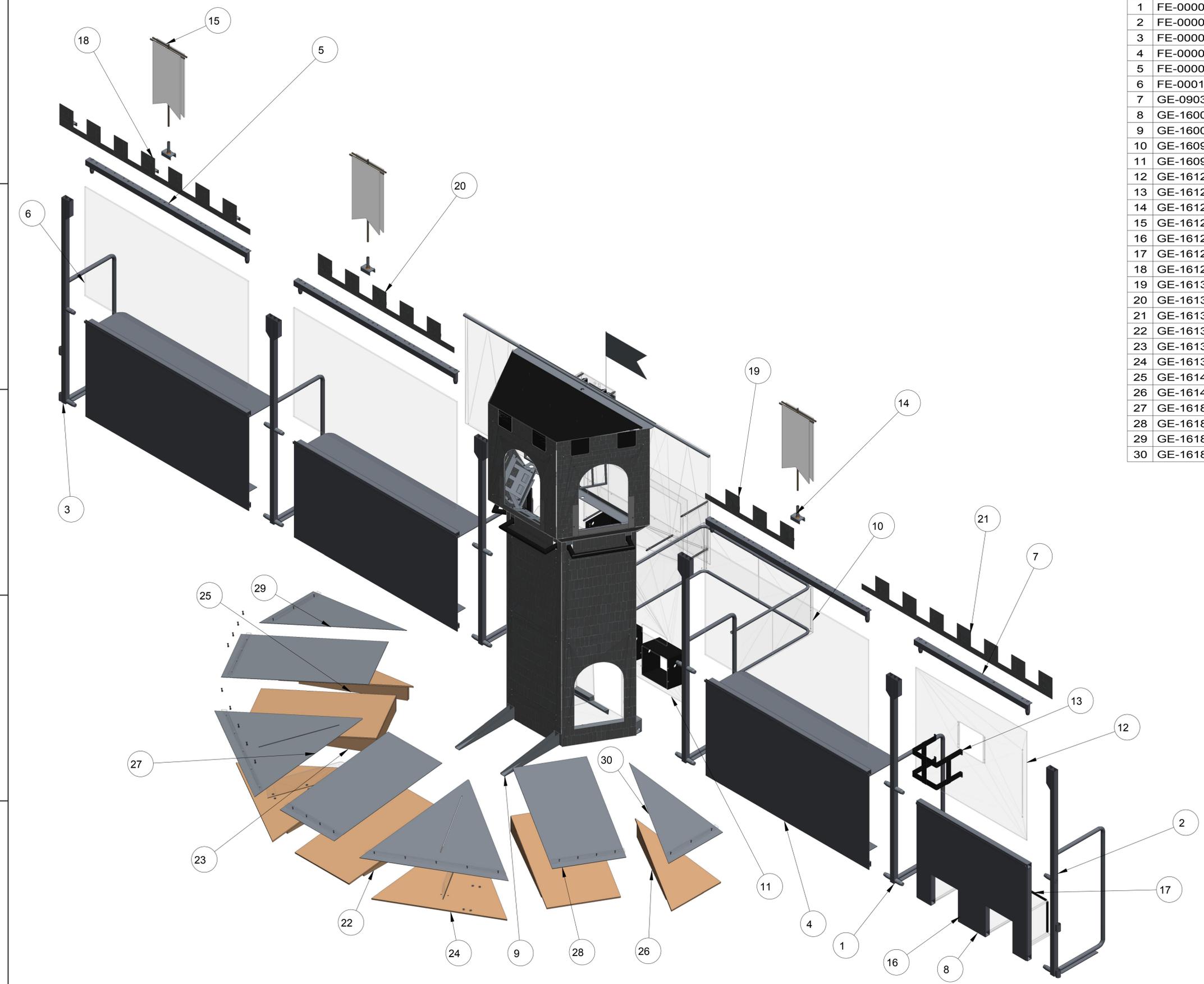
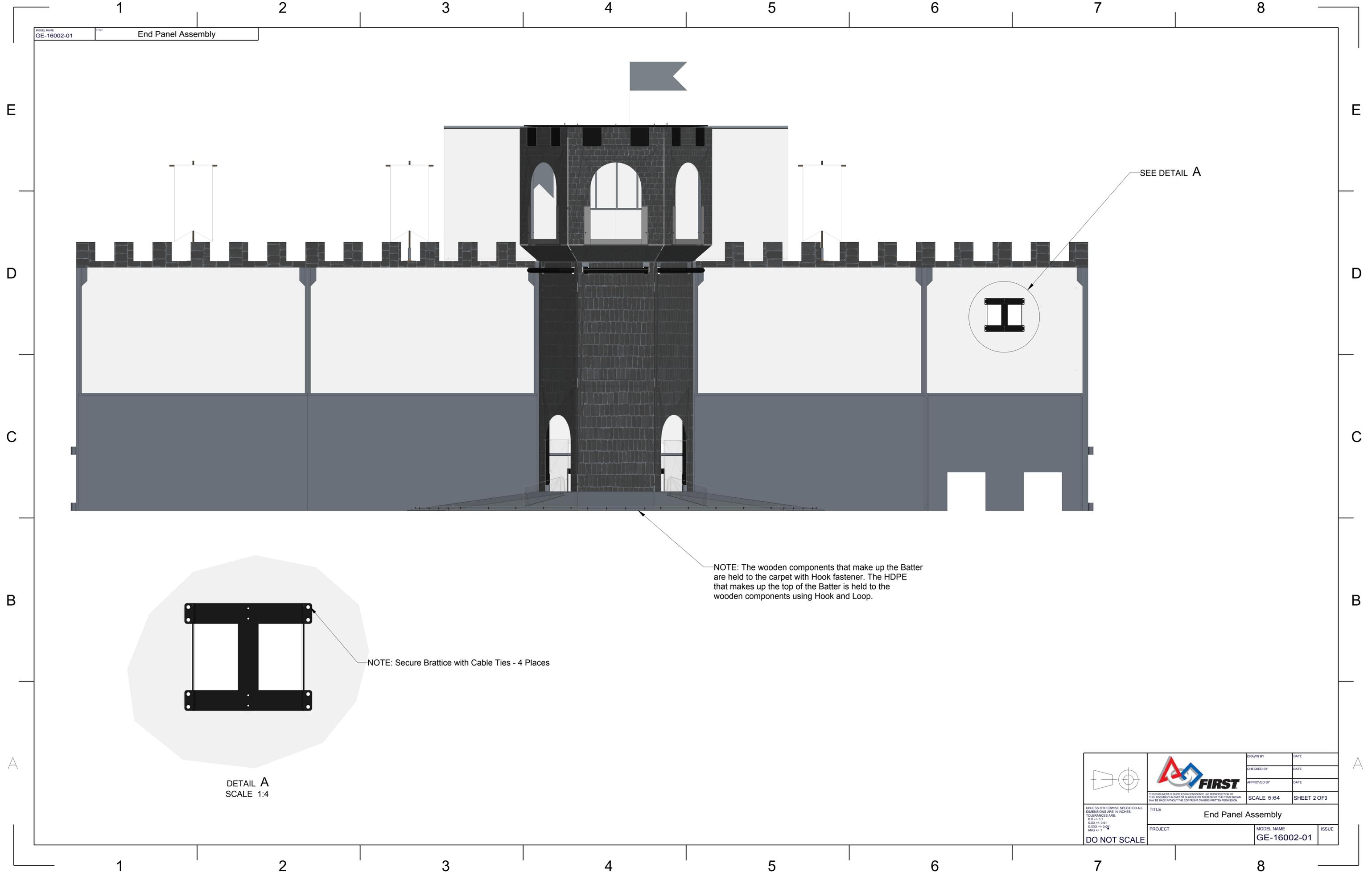


MODEL NAME: GE-16002-01
 TITLE: End Panel Assembly

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	FE-00001	4	Drivers Sta. Support Assembly	See Drawing
2	FE-00002-L	1	Corner Supports, Left	See Drawing
3	FE-00002-R	1	Corner Supports, Right	See Drawing
4	FE-00004	3	End Panel	See Drawing
5	FE-00007	3	Field Top Rail	See Drawing
6	FE-00012	3	Drivers Station Acrylic	See Drawing
7	GE-09031	1	Top Rail - Corner	See Drawing
8	GE-16003	1	hp station	See Drawing
9	GE-16004	1	tower assembly	See Drawing
10	GE-16090	1	ball corral	See Drawing
11	GE-16097	1	scoring panel assembly	See Drawing
12	GE-16120	1	ball inlet window	See Drawing
13	GE-16121	1	brattice assembly	See Drawing
14	GE-16124	3	standard holder assembly	See Drawing
15	GE-16126	3	flag	See Drawing
16	GE-16127	2	EMBRASURE COVER	See Drawing
17	GE-16128	6	embrasure trim	See Drawing
18	GE-16129	1	crenellation 1, assembly	See Drawing
19	GE-16131	1	crenellation 2, assembly	See Drawing
20	GE-16133	1	crenellation 3, assembly	See Drawing
21	GE-16135	1	crenellation 4, assembly	See Drawing
22	GE-16137	1	batter ramp, middle	See Drawing
23	GE-16138	2	batter ramp, low goal	See Drawing
24	GE-16139	2	batter ramp, corner	See Drawing
25	GE-16140	1	batter ramp, half corner 1	See Drawing
26	GE-16141	1	batter ramp, half corner 2	See Drawing
27	GE-16185	2	CORNER BATTER PLASTIC ASSEMBLY	See Drawing
28	GE-16186	3	MIDDLE BATTER PLASTIC ASSEMBLY	See Drawing
29	GE-16187	1	1/2 CORNER BATTER PLASTIC ASSEMBLY	See Drawing
30	GE-16188	1	1/2 CORNER BATTER PLASTIC ASSEMBLY R	See Drawing



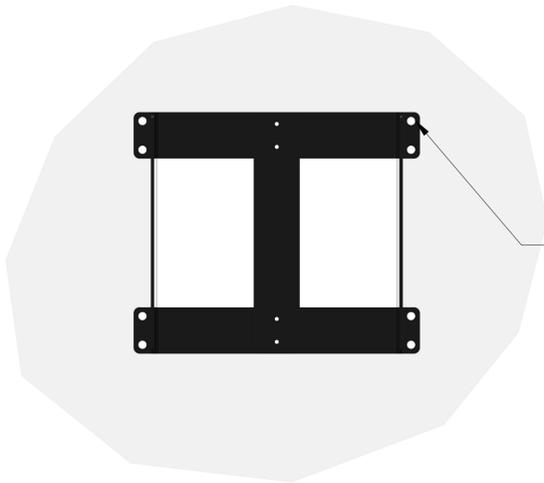
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	APPROVED BY	DATE
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TITLE: End Panel Assembly		SCALE: 1:64
PROJECT:		SHEET 1 OF 3
MODEL NAME: GE-16002-01		ISSUE:
DO NOT SCALE		



SEE DETAIL A

NOTE: The wooden components that make up the Batter are held to the carpet with Hook fastener. The HDPE that makes up the top of the Batter is held to the wooden components using Hook and Loop.

NOTE: Secure Brattice with Cable Ties - 4 Places



DETAIL A
SCALE 1:4

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 ANG +/- 1</small>	
TITLE: End Panel Assembly		SCALE 5:64 SHEET 2 OF 3
PROJECT	MODEL NAME	ISSUE
DO NOT SCALE		GE-16002-01

1 2 3 4 5 6 7 8

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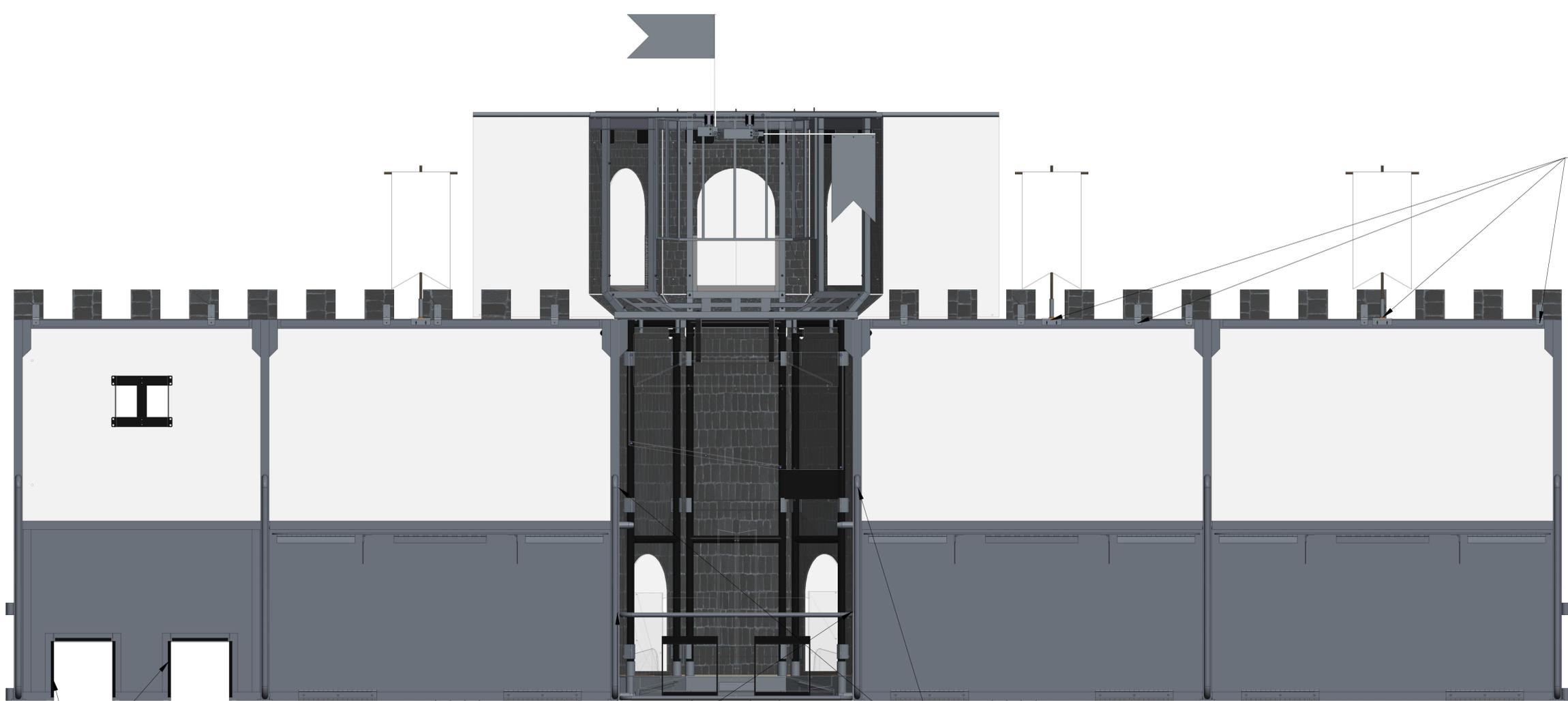
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NOTE: To secure the Standard Holders and the Crenellations to the Top Rail, first make sure that the brackets don't interfere with any electronics, then tighten the hardware.

NOTE: The Embrasure Covers are secured to the floor via Hook fastener, and it secured to the End Panel via Hook and Loop.

NOTE: Place the Ball Corral up against the Scoring Panel, then use Cable ties to secure it to the End Panel Uprights.

NOTE: Use Cable Ties to secure the large Polycarbonate Scoring Panel to the End Panel and Uprights, multiple places

	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	SCALE 5:64 SHEET 3 OF 3
	TITLE: End Panel Assembly
	PROJECT: _____ MODEL NAME: GE-16002-01 ISSUE: _____
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1 DO NOT SCALE	

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

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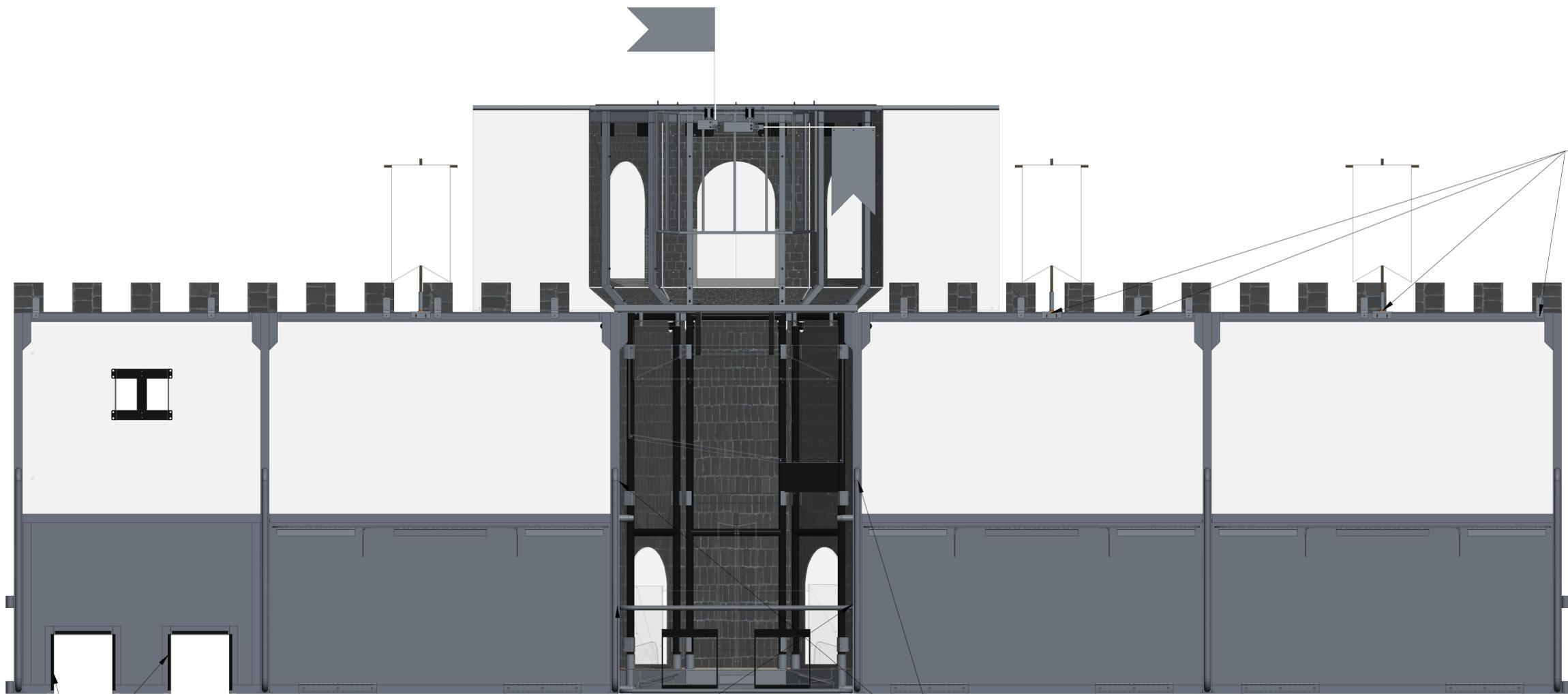
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NOTE: To secure the Standard Holders and the Crenellations to the Top Rail, first make sure that the brackets don't interfere with any electronics, then tighten the hardware.

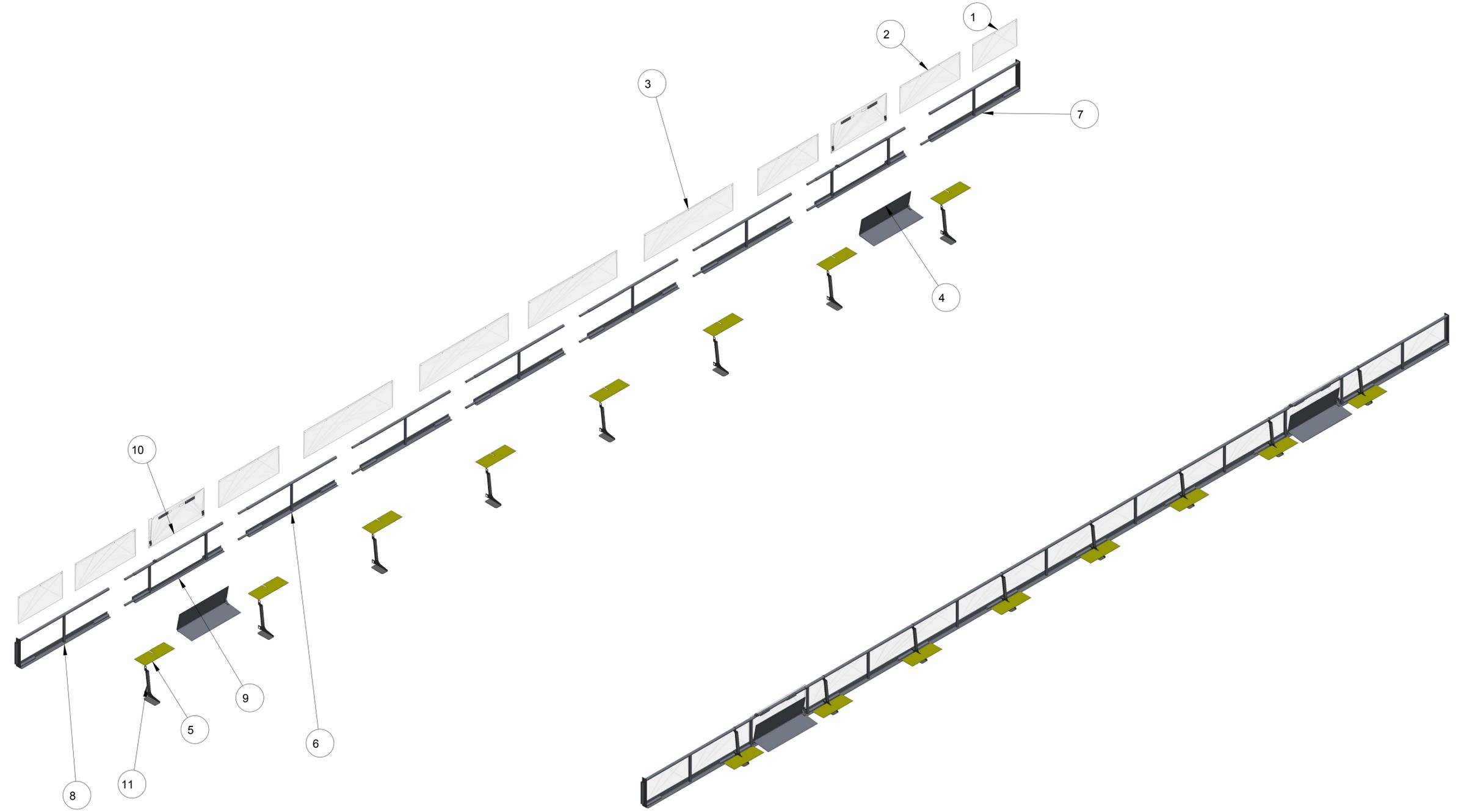
NOTE: The Embrasure Covers are secured to the floor via Hook fastener, and it secured to the End Panel via Hook and Loop.

NOTE: Place the Ball Corral up against the Scoring Panel, then use Cable ties to secure it to the End Panel Uprights.

NOTE: Use Cable Ties to secure the large Polycarbonate Scoring Panel to the End Panel and Uprights, multiple places

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1 DO NOT SCALE</p>	<p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>	<p>DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____</p>
	<p>SCALE 5:64</p>	<p>SHEET 3 OF 3</p>
	<p>TITLE: End Panel Assembly</p>	
	<p>PROJECT: _____</p>	<p>MODEL NAME: GE-16002-01</p>

1 2 3 4 5 6 7 8



Sub-Assembly GE-16002-02 - Guardrail
 Typical both sides of the Field

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	FE-00008	2	Field Plastic "A"	See Drawing
2	FE-00009	4	Field Plastic "B"	See Drawing
3	FE-00010	4	Field Plastic "C"	See Drawing
4	FE-00014	2	Field Entry Ramp	See Drawing
5	FE-00015	8	Trip Guard	See Drawing
6	FE-00022	5	Field Rail Assy - Middle	See Drawing
7	FE-00023	1	Field Rail Assy - Left	See Drawing
8	FE-00024	1	Field Rail Assy - Right	See Drawing
9	FE-00029	2	Field Gate, Assembly	See Drawing
10	FE-00047	2	Plastic "G"	See Drawing
11	FE-00050	8	Outrigger	See Drawing

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Side Border Assembly		MODEL NAME GE-16002-02
PROJECT		ISSUE

DO NOT SCALE

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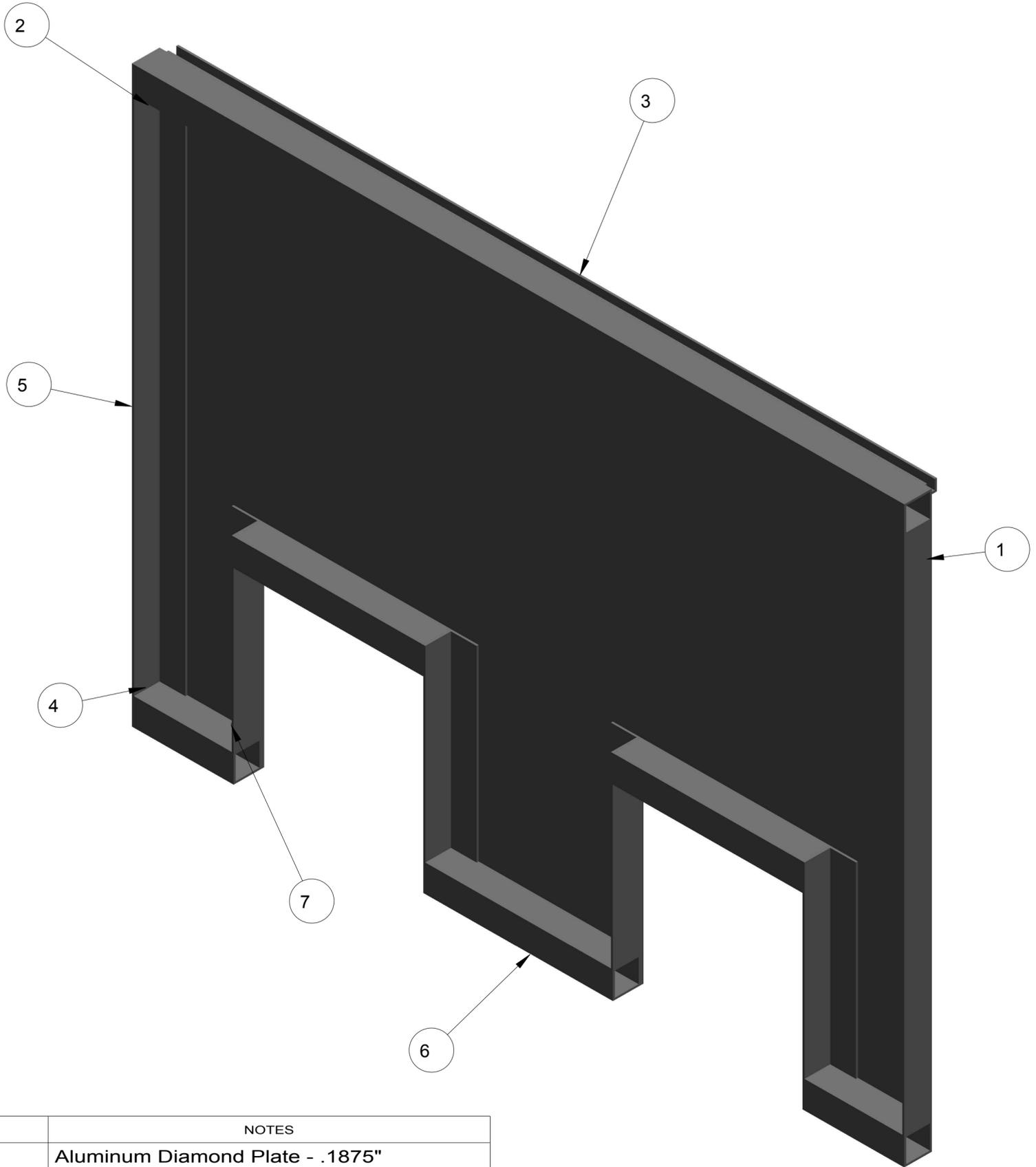
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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16003-01	1	ge-16003-01.prt	Aluminum Diamond Plate - .1875"
2	GE-16003-02	1	ge-16003-02.prt	Aluminum Square Tubing - 1.75"
3	GE-16003-03	1	ge-16003-03.prt	Aluminum C-Channel - .75"
4	GE-16003-04	2	ge-16003-04.prt	Aluminum Square Tubing - 1.75"
5	GE-16003-05	2	ge-16003-05.prt	Aluminum Angle - 1.75"
6	GE-16003-06	3	ge-16003-06.prt	Aluminum Square Tubing - 1.75"
7	GE-16003-07	4	ge-16003-07.prt	Aluminum Angle - 1.75"

		DRAWN BY	DATE
		CHECKED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small>	<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>	APPROVED BY	DATE
		SCALE 1:4	
TITLE		HP Station	
PROJECT		MODEL NAME	ISSUE
DO NOT SCALE		GE-16003	

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MODEL NAME
GE-16003

TITLE
HP Station

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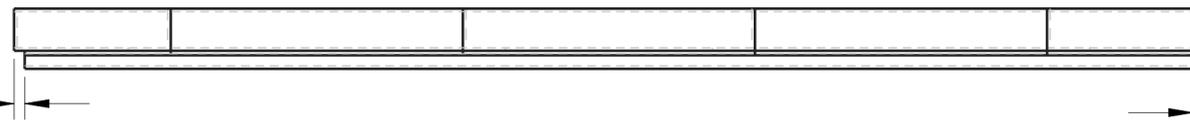
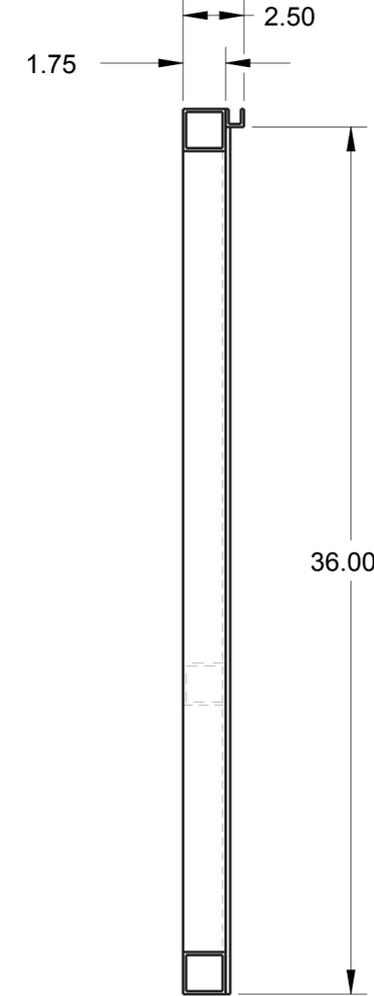
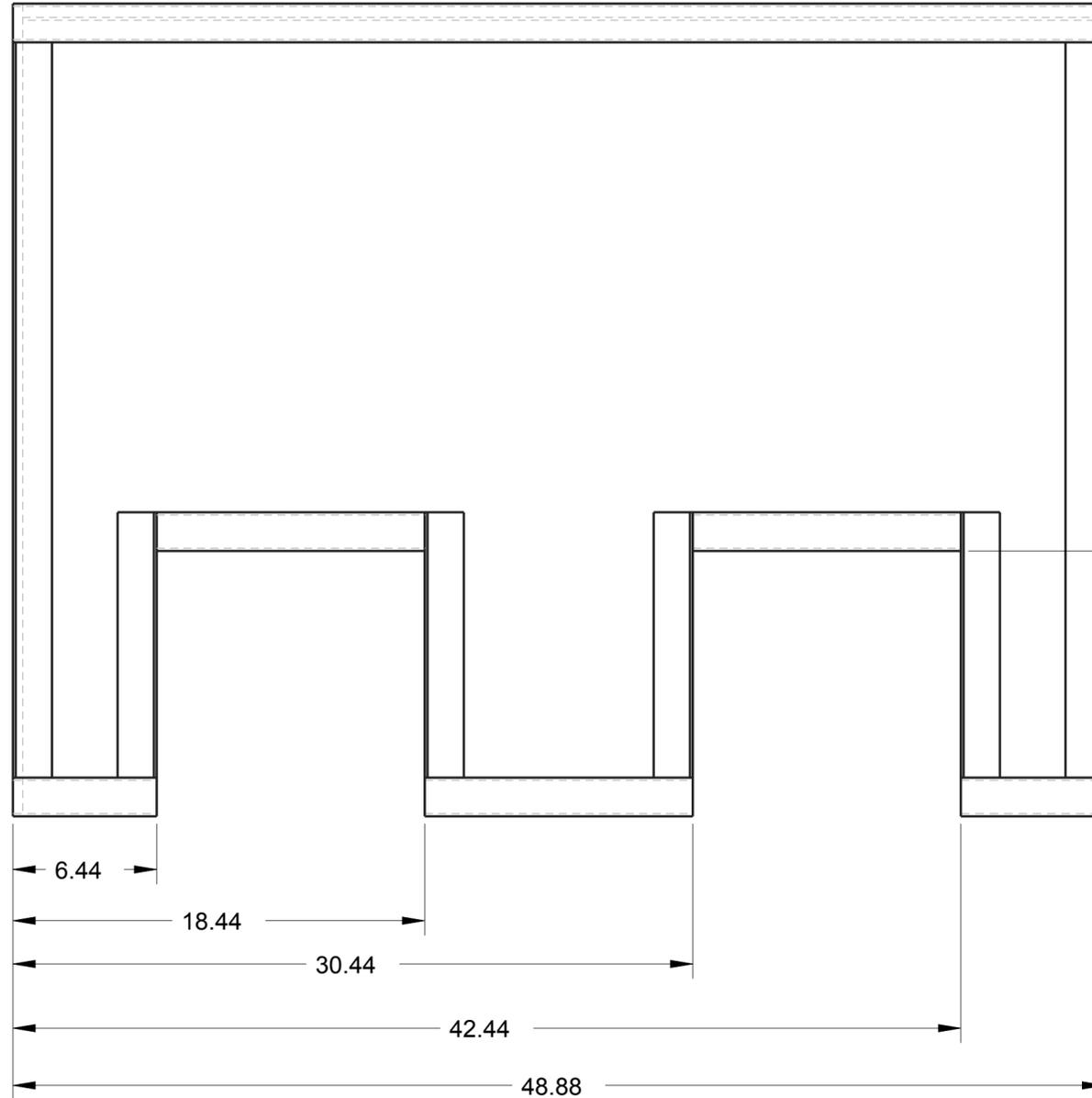
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		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		HP Station	
DO NOT SCALE		PROJECT	MODEL NAME GE-16003
			ISSUE

MODEL NAME
GE-16003

TITLE
HP Station

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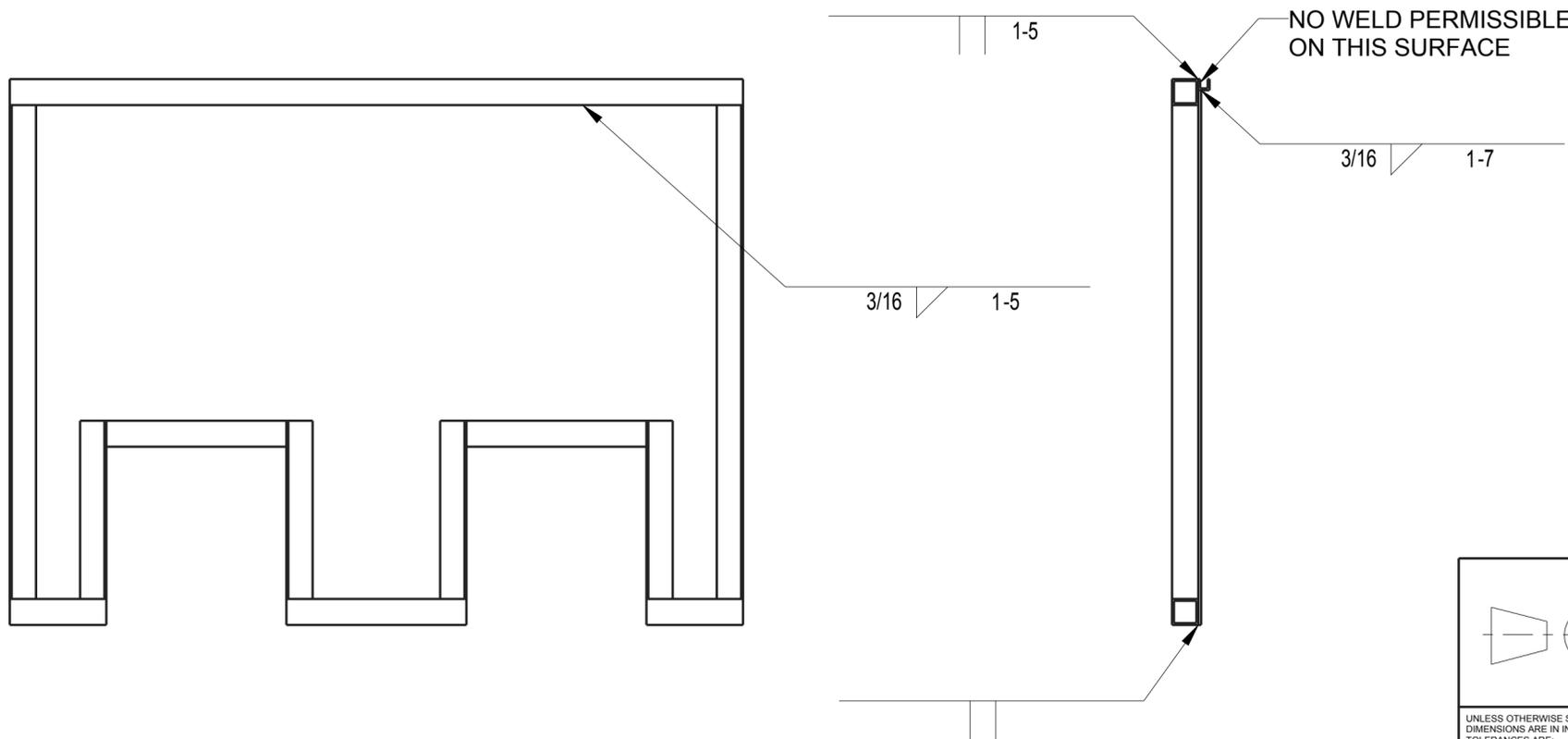
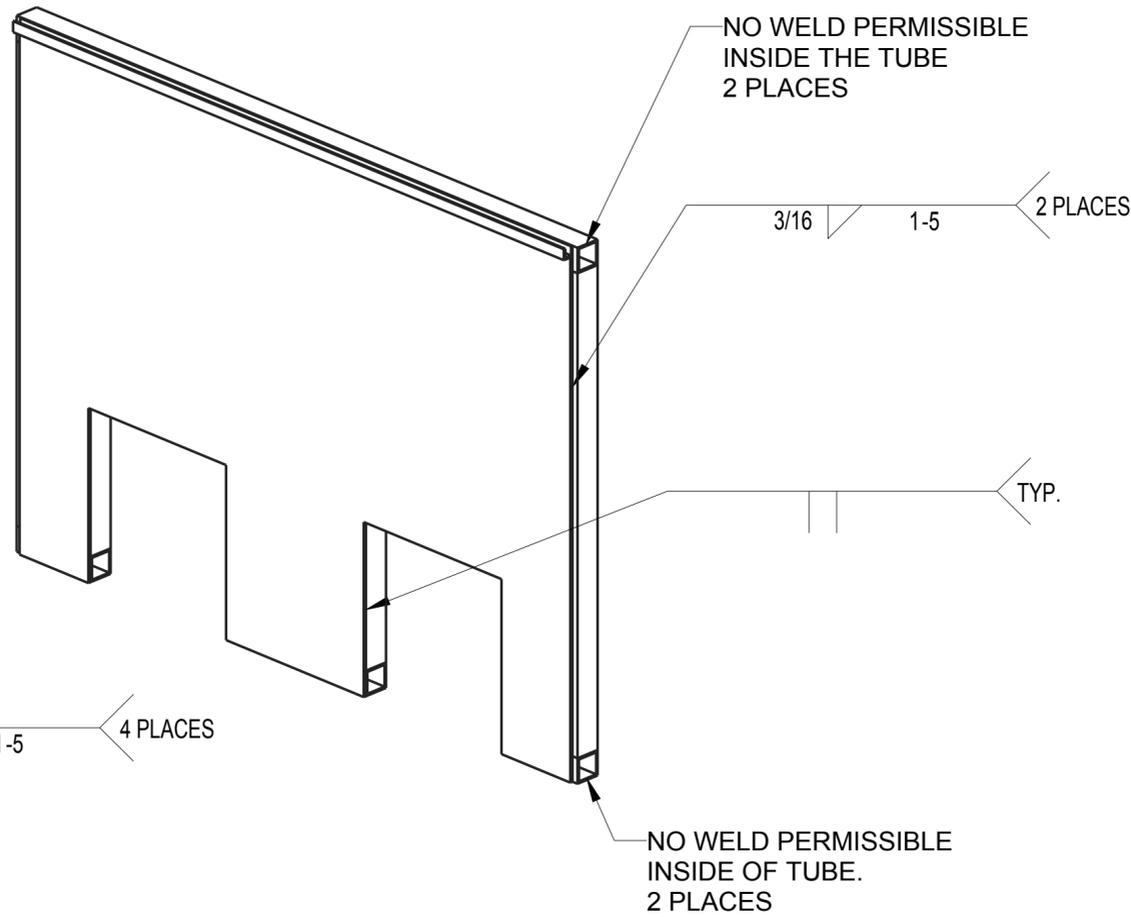
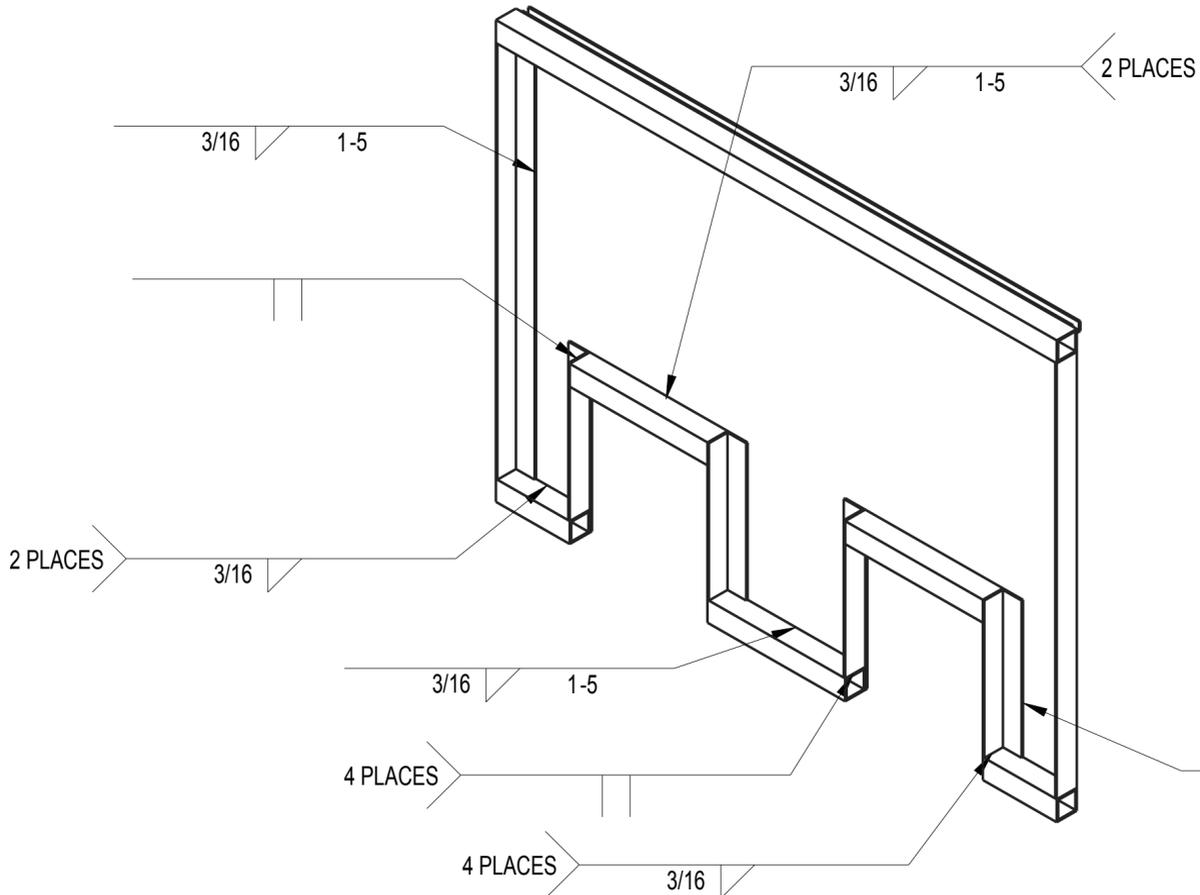
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		APPROVED BY	DATE
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TITLE HP Station			
PROJECT		MODEL NAME GE-16003	ISSUE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>			
DO NOT SCALE			

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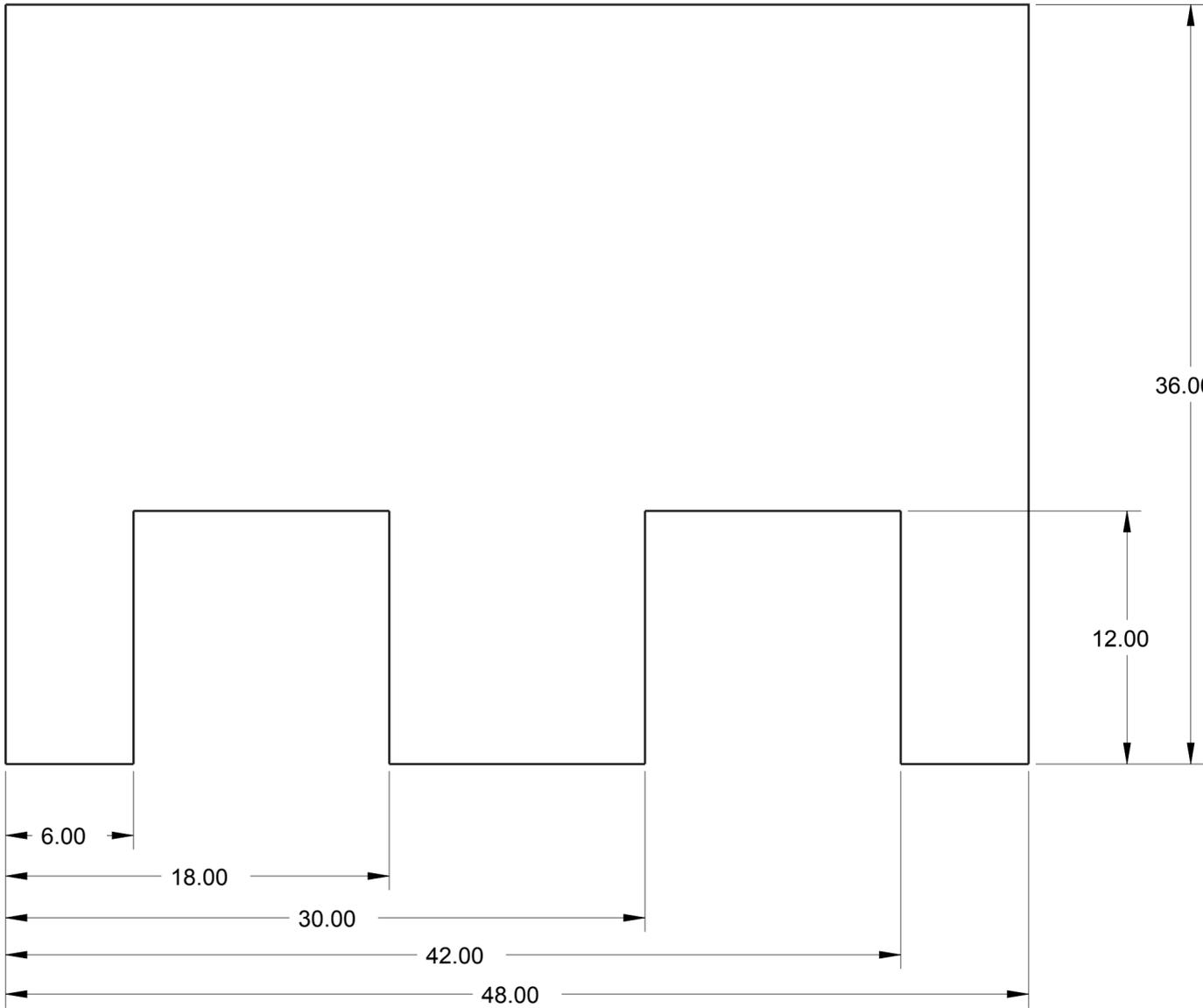
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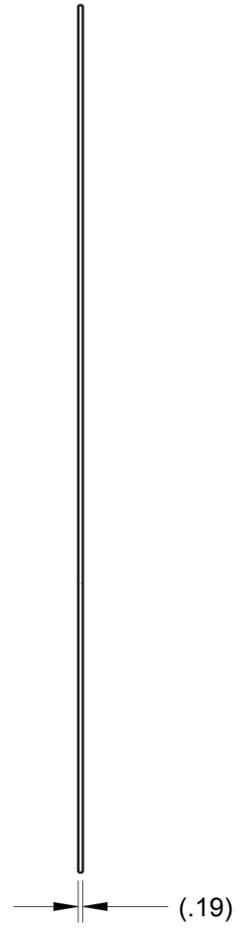
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SCALE 3:16



(.19)

SCALE 1:8



NOTES:

1. Part: HP_EP_DP
2. Material: Aluminum Diamond Plate, .1875" Thick
3. Qty: 1
4. Scale: 3:16
5. Remove all sharp edges and burrs

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		CHECKED BY	DATE
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DO NOT SCALE		HP Station	
PROJECT		MODEL NAME GE-16003	ISSUE

1

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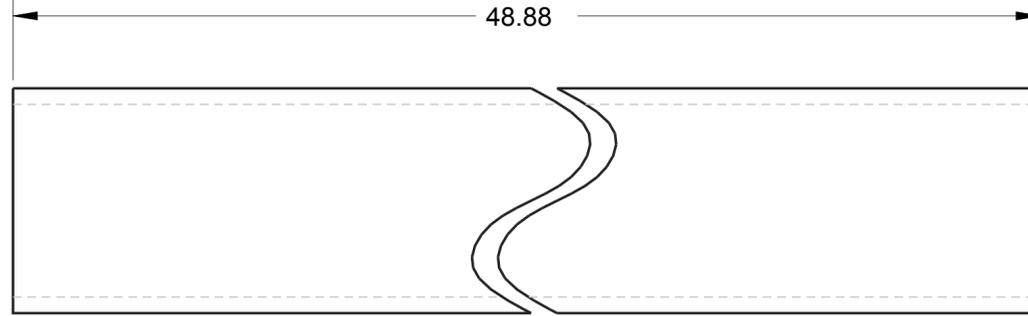
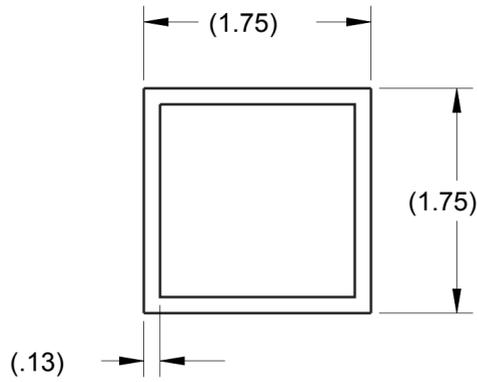
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MODEL NAME
GE-16003

TITLE

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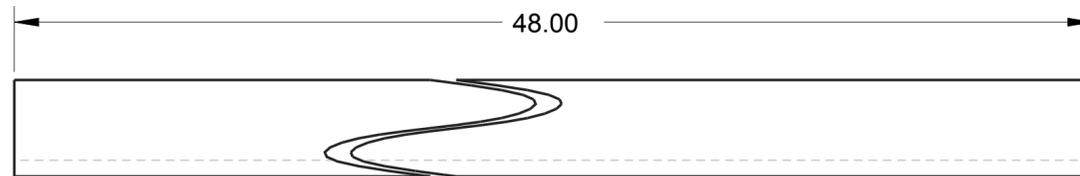
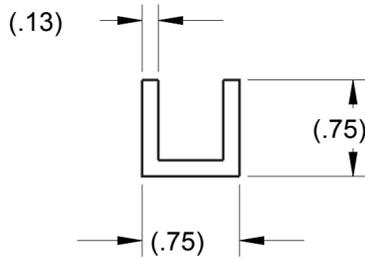
NOTE

Part: HP_EP_TUBE1
 Material: 6063 Aluminum Square Tubing, 1.75"
 Qty: 2
 Scale: 1:1

SCALE 1:1

C

C



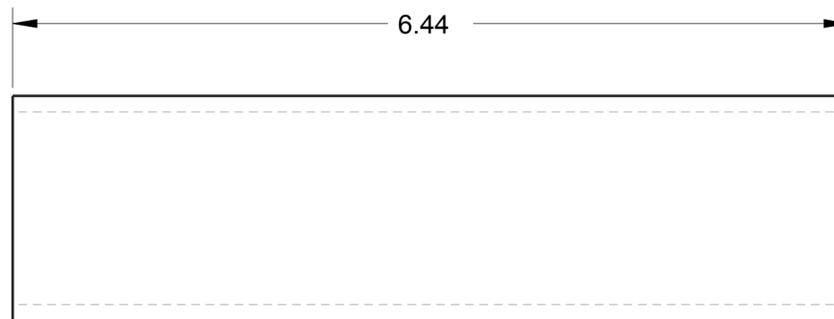
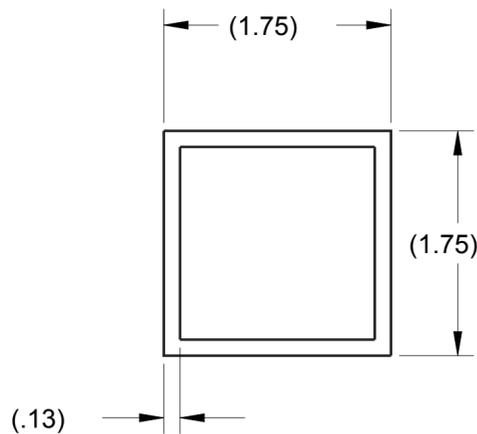
NOTE

Part: HP_DP_Channel
 Material: Aluminum Channel, .75", .125" wall
 Qty: 1
 Scale: 1:1

SCALE 1:1

B

B



NOTE

Part: HP_EP_TUBE2
 Material: 6063 Aluminum Square Tubing, 1.75"
 Qty: 2
 Scale: 1:1

SCALE 1:1

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A

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		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 X.XXX ±0.001 ANG ±1</small>		TITLE	
DO NOT SCALE		PROJECT	MODEL NAME GE-16003
			ISSUE

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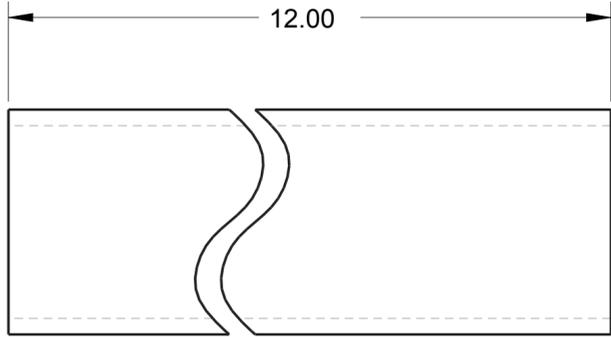
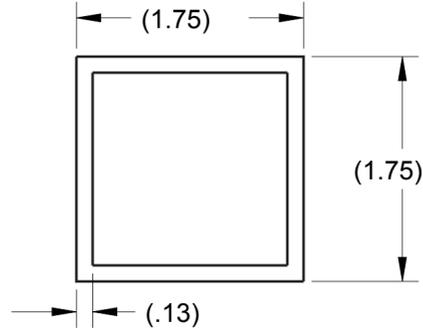
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MODEL NAME
GE-16003

TITLE

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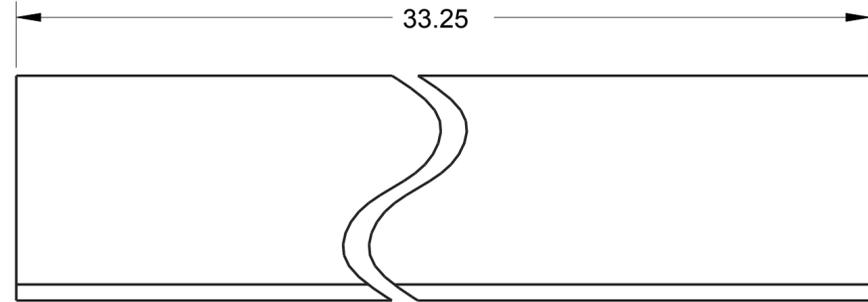
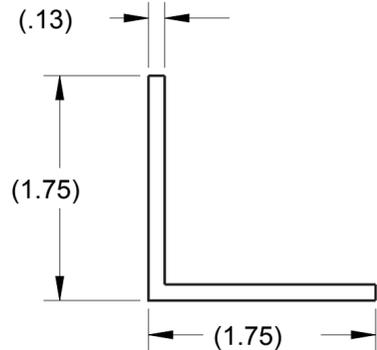
SCALE 1:1

NOTE

Part: HP_EP_TUBE3
 Material: 6063 Aluminum Square Tubing, 1.75"
 Qty: 1
 Scale: 1:1

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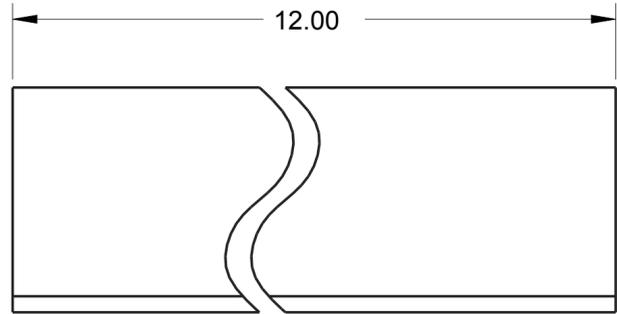
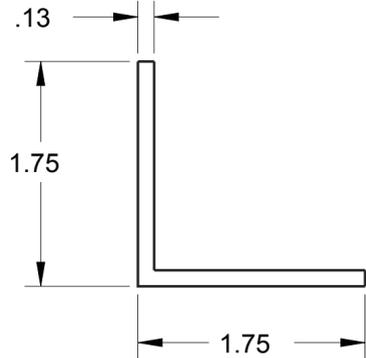
SCALE 1:1

NOTE

Part: HP_EP_TUBE4
 Material: Aluminum Angle, 1.75"
 Qty: 2
 Scale: 1:1

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SCALE 1:1

NOTE

Part: HP_EP_TUBE6
 Material: Aluminum Angle, 1.75"
 Qty: 4
 Scale: 1:1

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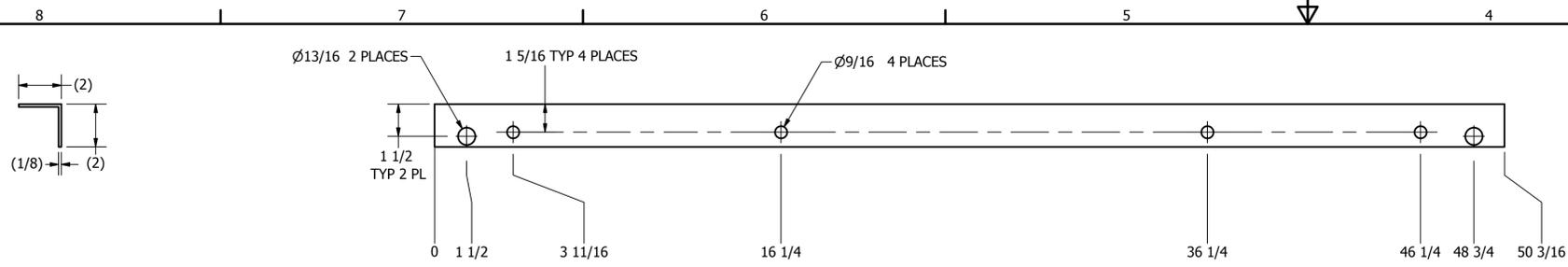
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		SCALE 1:4	SHEET 6 OF 6
DO NOT SCALE	TITLE	PROJECT	MODEL NAME GE-16003
			ISSUE

1

2

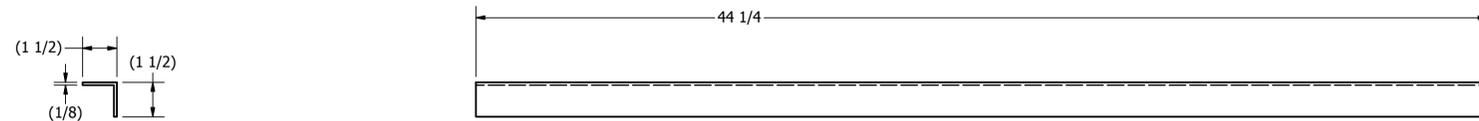
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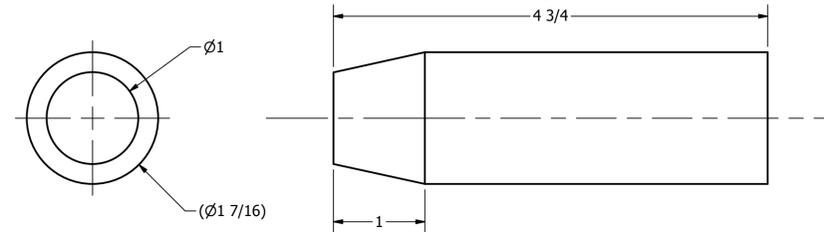


ITEM: 1, FE-00007-01 Upper Rail
 RESOURCE: 1
 SCALE: 1/4

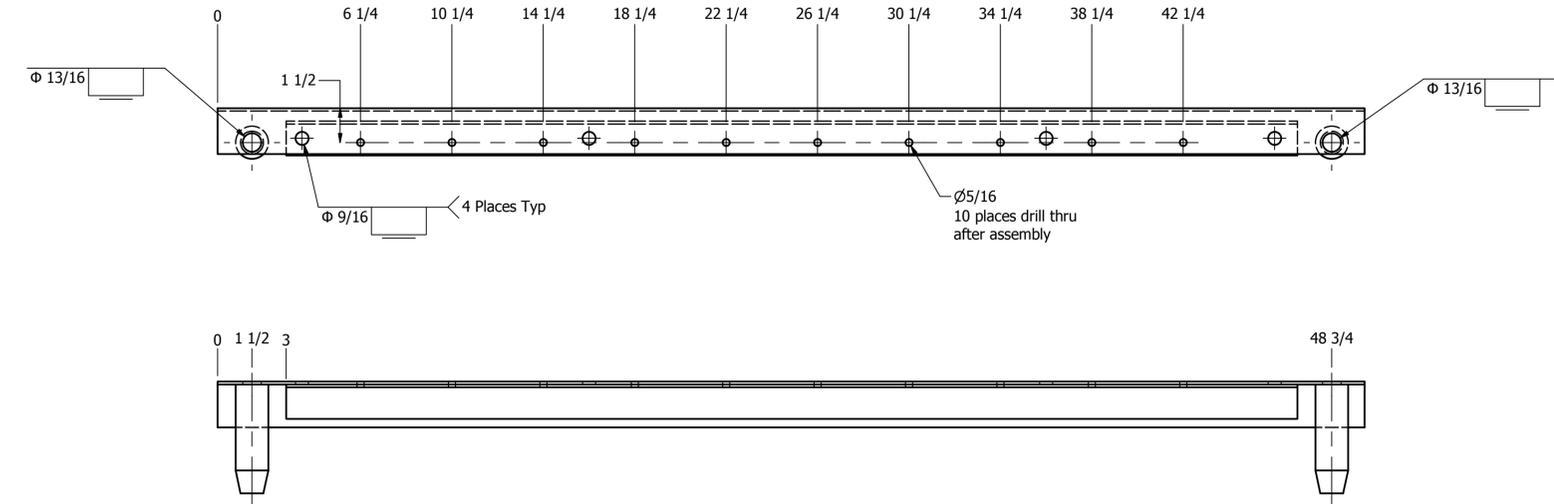
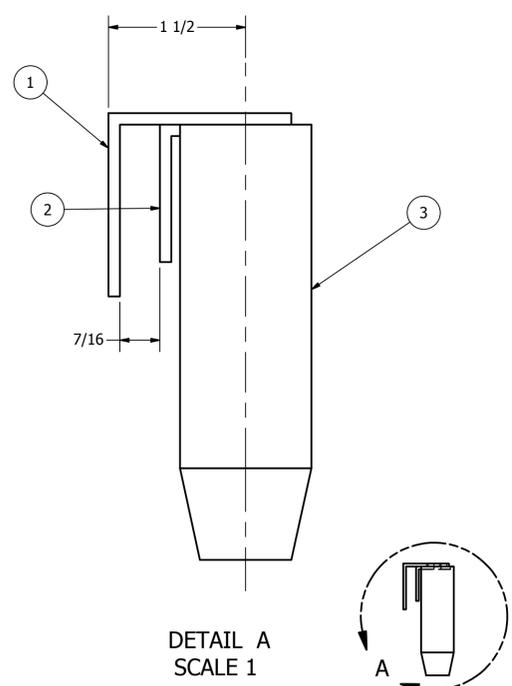
Resources		
Resource	Description	Length
1	2"x2"x1/8" SQ Corner 6063 Alum Angle	51"
2	1 7/16" 6061 Alum Round Stock	10"
3	1 1/2"x1 1/2"x1/8" 6061 Alum Angle	45"



ITEM: 2, FE-00007-02 Lower Rail
 RESOURCE: 3
 SCALE: 1/4



ITEM: 3, FE-00007-03 Connecting Pin
 RESOURCE: 2
 SCALE: FULL



Notes:
 1. Remove all sharp edges and burrs

FE-00007 Field Top Rail Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GE-09031-01	Upper Rail
2	1	GE-09031-02	Lower Rail
3	2	GE-09031-03	Connecting Pin

DRAWN dfoster	5/27/2008	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907	
CHECKED dfoster	8/4/2008		
TOLERANCES: (INCHES)		TITLE	
FRAC.	+/- 1/32	Top Rail - Fueling Port	
.00	+/- .01	SIZE	DWG NO
.000	+/- .005	D	GE-09031
ANGULAR	+/- .25 Deg.	SCALE	SHEET 1 OF 1

MODEL NAME
GE-16004

TITLE
Tower Assembly

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	B-3	Added Tape to High Goal Frames	NJS	4/4/2016



△ A

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16004-01	3	vision tape assembly	4 ft each
2	GE-16004-04	3	High Goal Tape	
3	GE-16004-05	2	High Goal Tape 2	
4	GE-16005	1	tower base	
5	GE-16006	3	lower frame, tower	
6	GE-16007	1	lower cap, tower	
7	GE-16008	3	upper frame, tower	
8	GE-16009	1	upper cap, tower	
9	GE-16067	3	high plastic, tower	
10	GE-16068	2	low goal plastic assembly	
11	GE-16071	1	low plastic assembly	
12	GE-16073	3	middle plastic, tower	
13	GE-16107	1	backboard assembly	
14	GE-16112	1	low goal ramp assembly	
15	GE-16117	2	side rail, low goal ramp	
16	GE-16215	1	flag flipper assembly	
17	GE-16235	1	ROOF ASSEMBLY, TOWER	
18	GE-16236	1	UPPER SCORING RAMP ASSEMBLY	
19	HW-00091	24	pan head, #10-24 x 2"	
20	HW-00092	24	nut, nylock, #10-24	

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Tower Assembly		
PROJECT		MODEL NAME GE-16004
ISSUE		

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TOLERANCES ARE:
XX ± 0.1
XXX ± 0.01
X.XXX ± 0.001
ANG ± 1

DO NOT SCALE

MODEL NAME
GE-16004

TITLE
Tower Assembly

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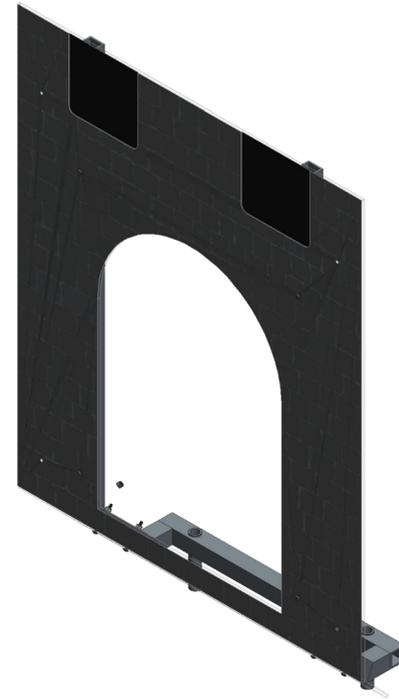
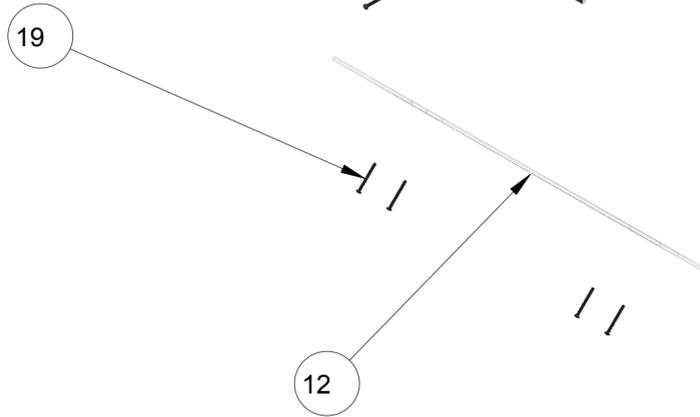
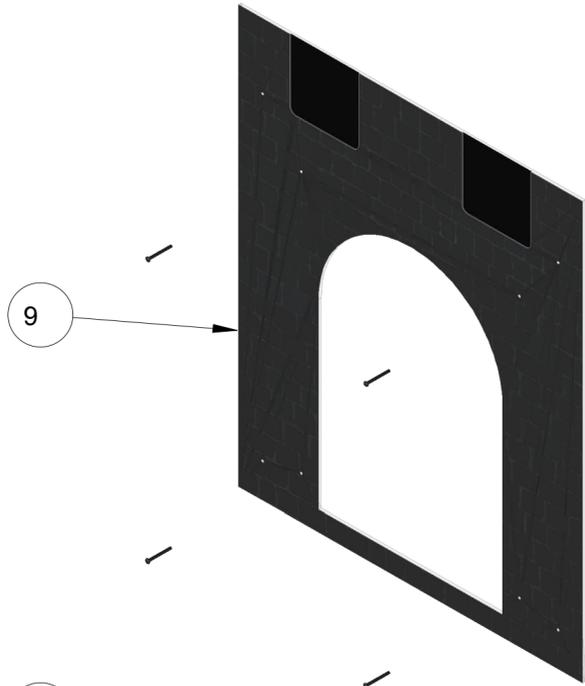
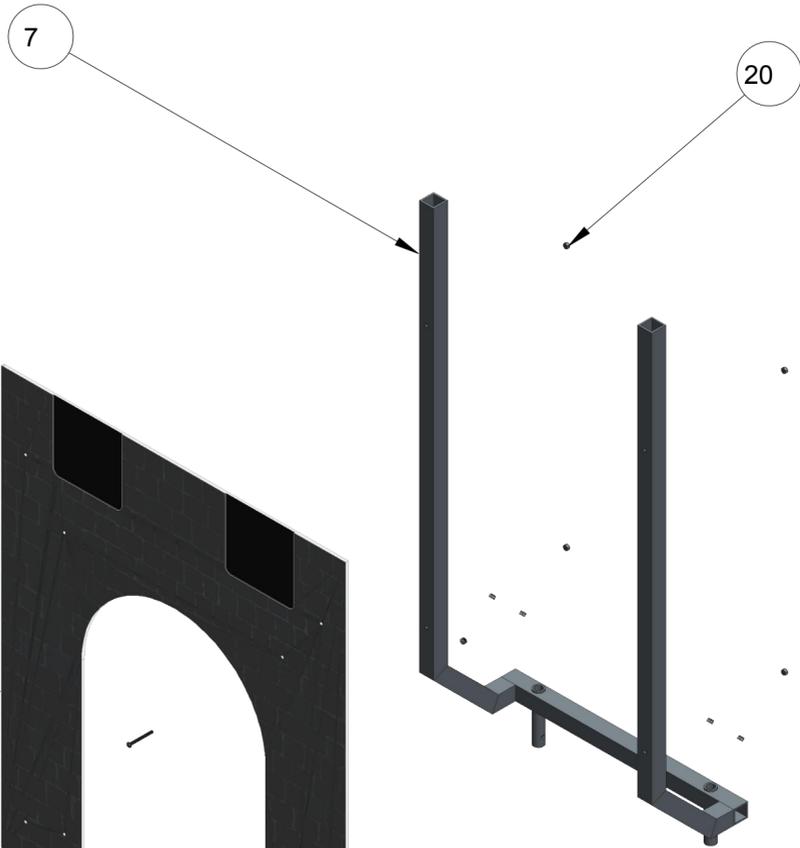
4

1

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Step 1:
1. REPEAT 3 TIMES

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 X.XXX ±0.001 ANG ±1</small>		TITLE Tower Assembly	
PROJECT DO NOT SCALE		MODEL NAME GE-16004	ISSUE

MODEL NAME
GE-16004

TITLE
Tower Assembly

D

D

C

C

B

B

A

A

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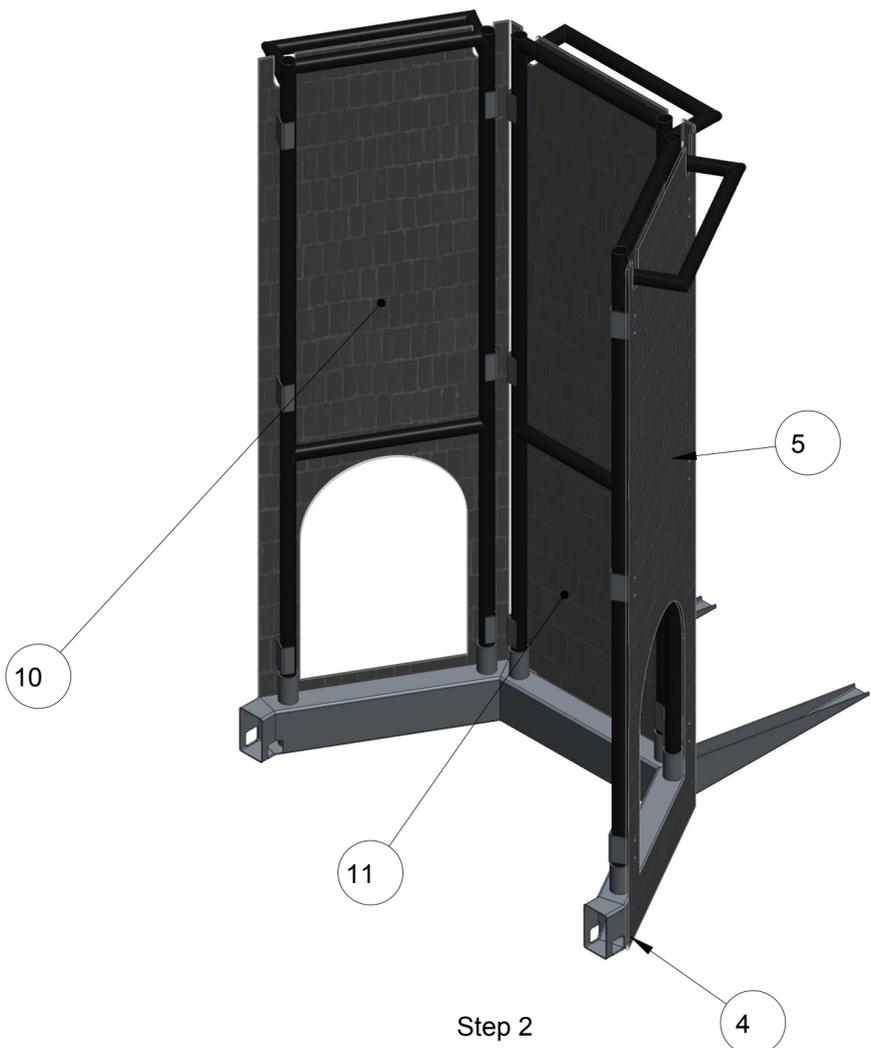
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		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		TITLE Tower Assembly	
DO NOT SCALE		PROJECT 	MODEL NAME GE-16004
		ISSUE 	

D

C

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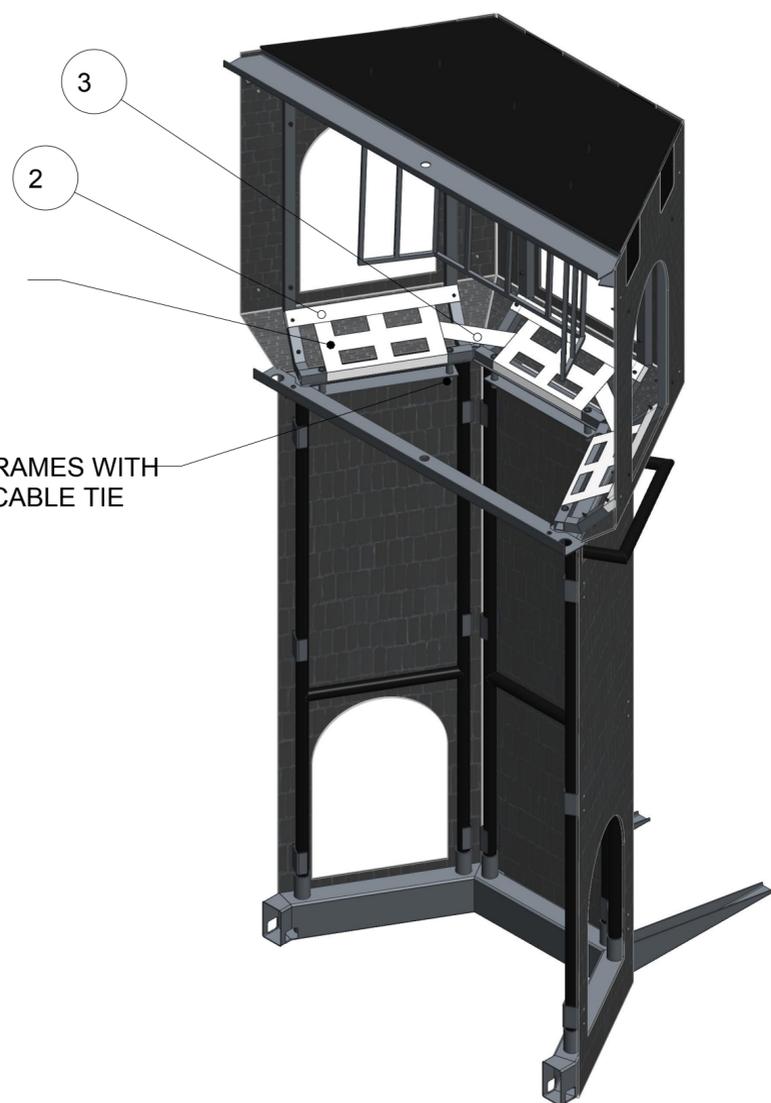
4



ADD HOOK AND LOOP TO THESE EDGES TO SECURE. 30 INCHES OF EACH.

Add 2" Gaffers Tape as shown. Repeat for all High Goals.

SECURE UPPER FRAMES WITH COTTER PIN OR CABLE TIE



Step 4

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		TITLE Tower Assembly	
DO NOT SCALE		PROJECT	MODEL NAME GE-16004
			ISSUE

D

D

C

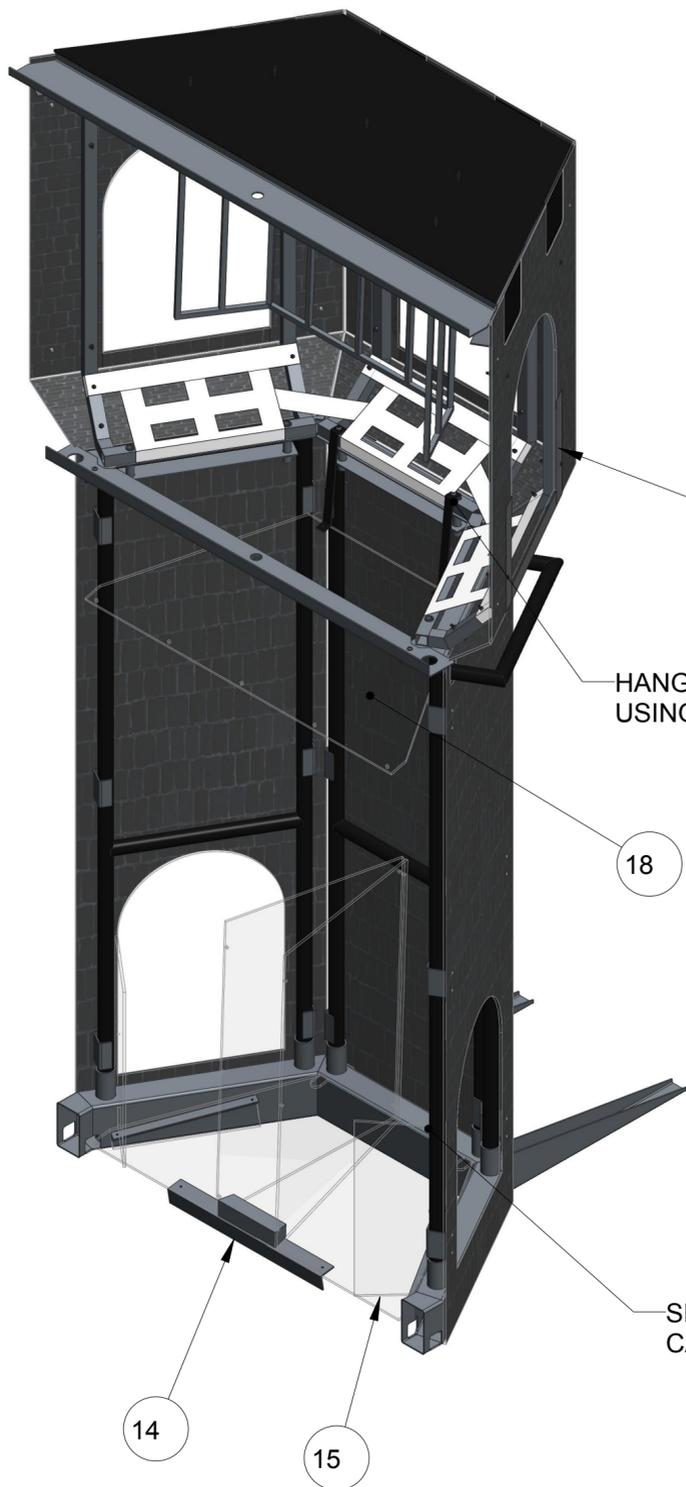
C

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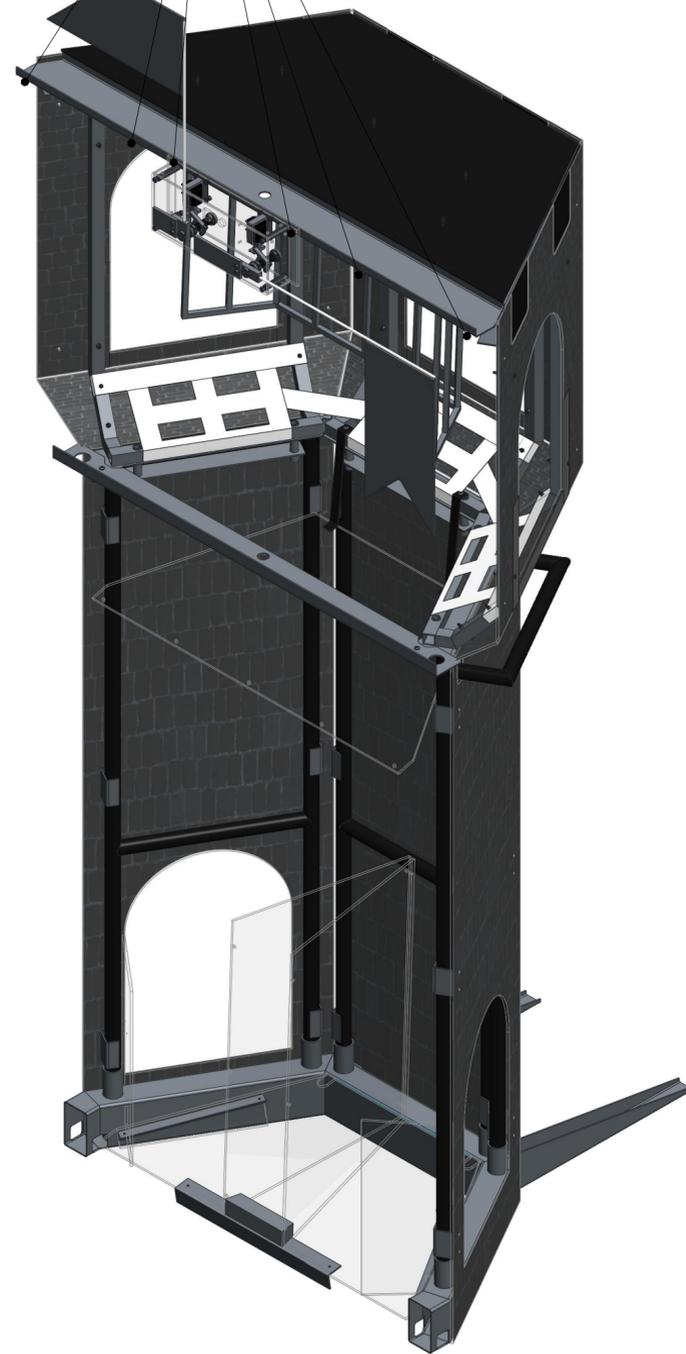
Step 5

HANG ITEM 16 FROM UPPER FRAMES (ITEM 5) USING NYLON WEBBING AND PAN HEAD SCREWS

SECURE ITEM 13 TO ITEM 3 USING CABLE TIES. 4 PLACES



DRILL UPPER CAP WITH A .25 DRILL AT THESE LOCATIONS. SECURE ITEMS 11 AND 14 USING CABLE TIES.



Step 6

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>			
<small>DO NOT SCALE</small>		TOWER ASSEMBLY Tower Assembly	
PROJECT		MODEL NAME GE-16004	ISSUE

1

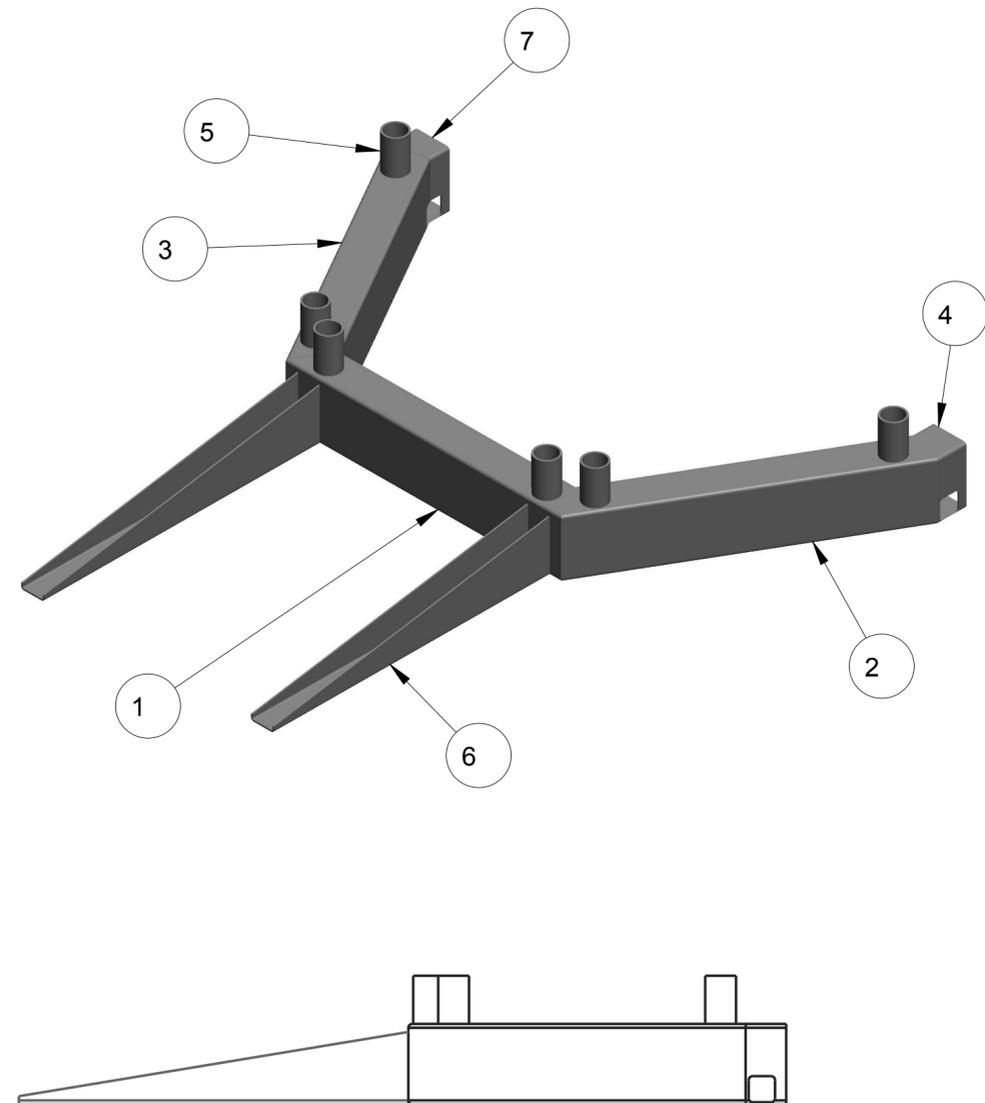
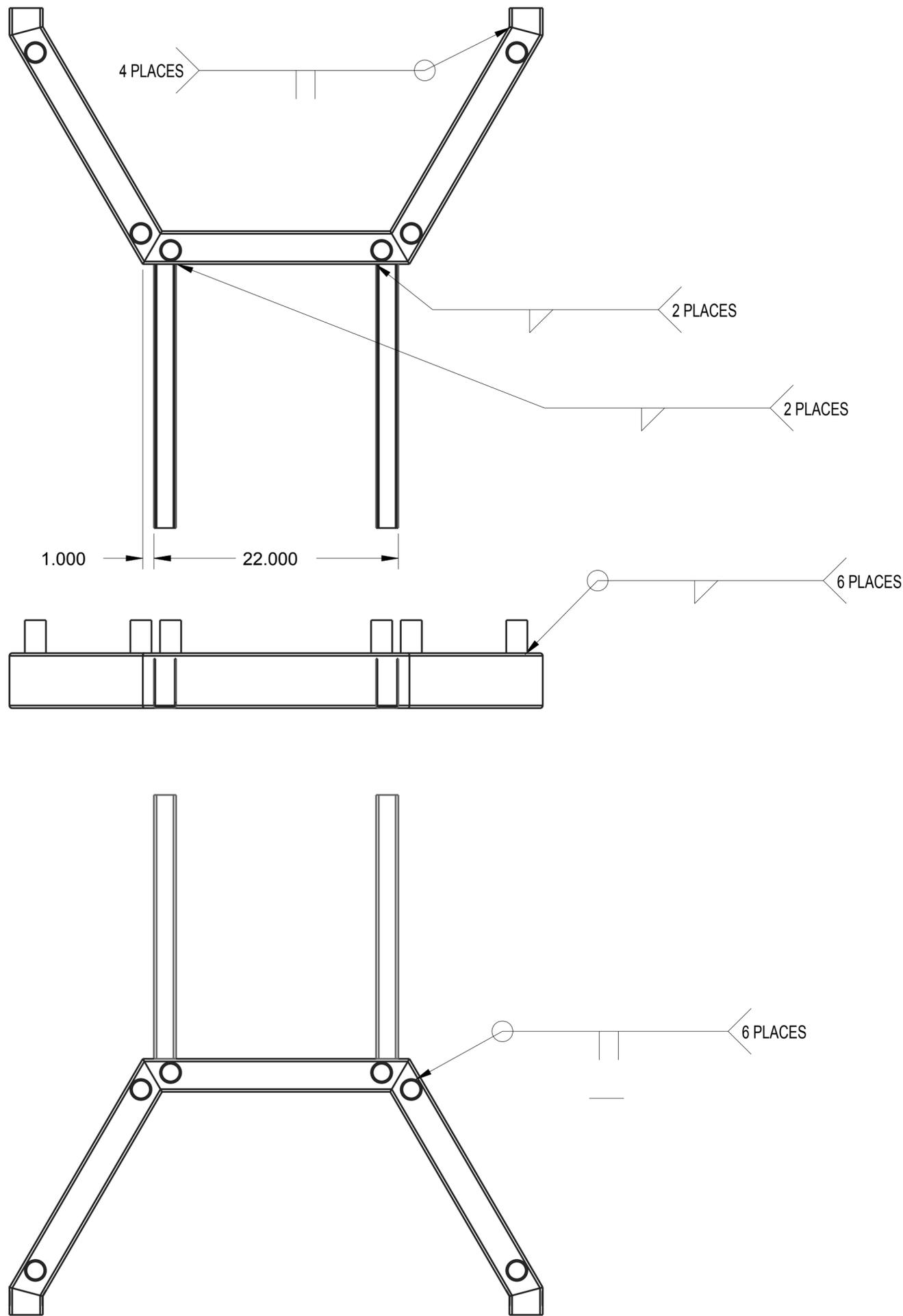
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3

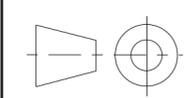
4

MODEL NAME
GE-16005

TITLE
BASE



ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16005-01	1	steel tube
2	GE-16005-02	1	steel tube
3	GE-16005-03	1	steel tube
4	GE-16005-04	1	steel tube
5	GE-16005-05	6	socket pipe
6	GE-16005-06	2	sheetmetal outrigger
7	GE-16005-07	1	steel tube



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 4

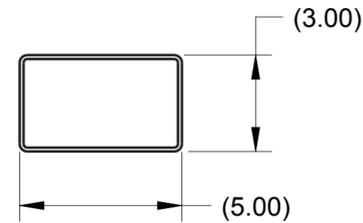
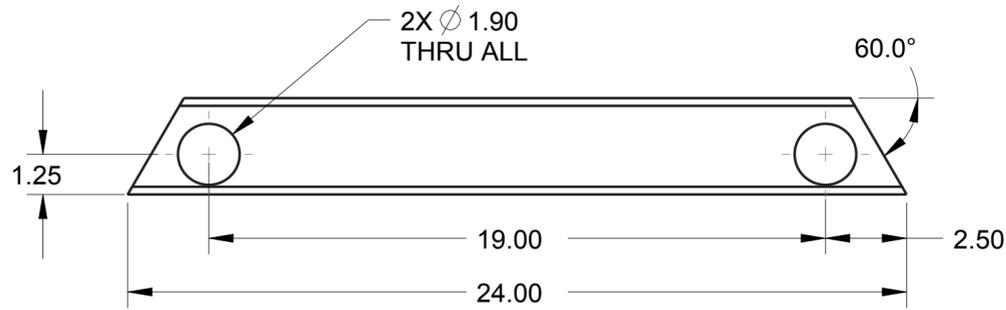
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

TITLE	BASE	
PROJECT	MODEL NAME	ISSUE
	GE-16005	

DO NOT SCALE

D

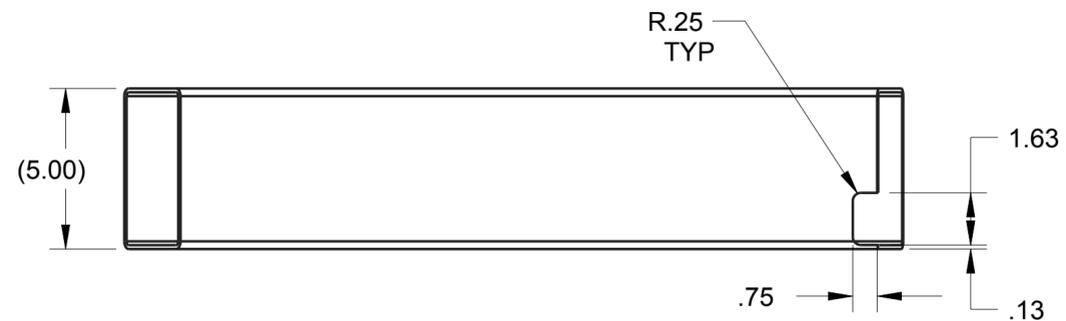
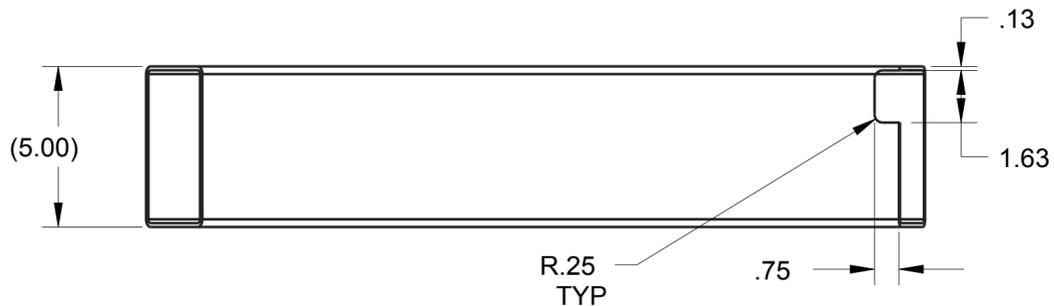
D



ITEM 1: STEEL TUBE
 MATERIAL: 5"x3"x.12" A500 STEEL TUBING
 QTY: 1

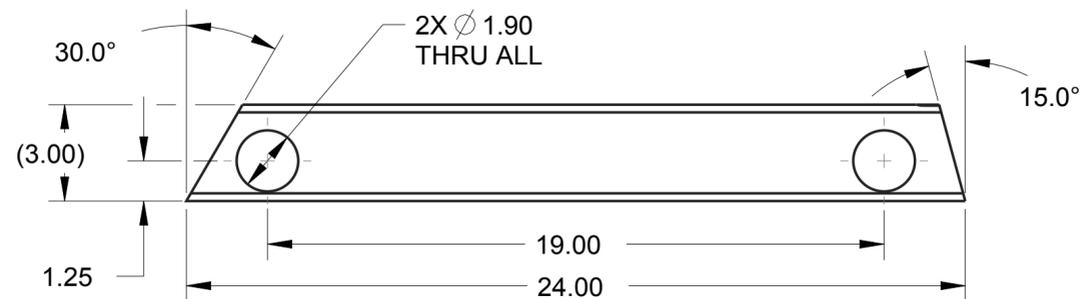
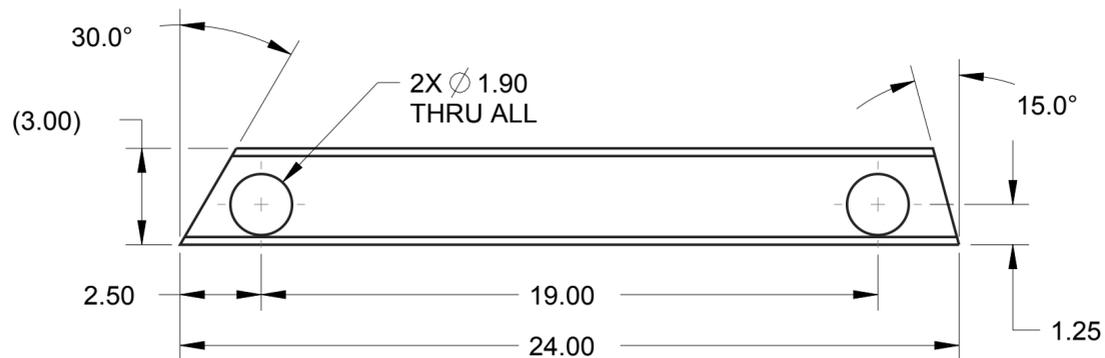
C

C



B

B



ITEM 3: STEEL TUBE
 MATERIAL: 5"x3"x.12" A500 STEEL TUBING
 QTY: 1

A

A

ITEM 2: STEEL TUBE
 MATERIAL: 5"x3"x.12" A500 STEEL TUBING
 QTY: 1

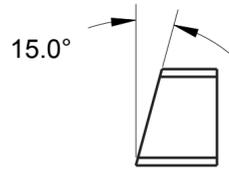
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 .XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small>		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE BASE		SCALE 1:8	SHEET 2 OF 4
PROJECT		MODEL NAME GE-16005	ISSUE
DO NOT SCALE			

1

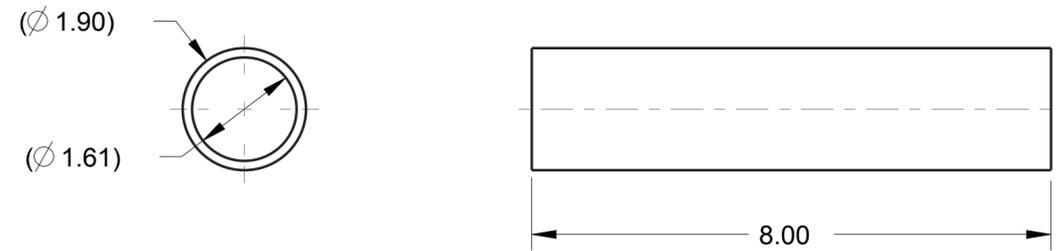
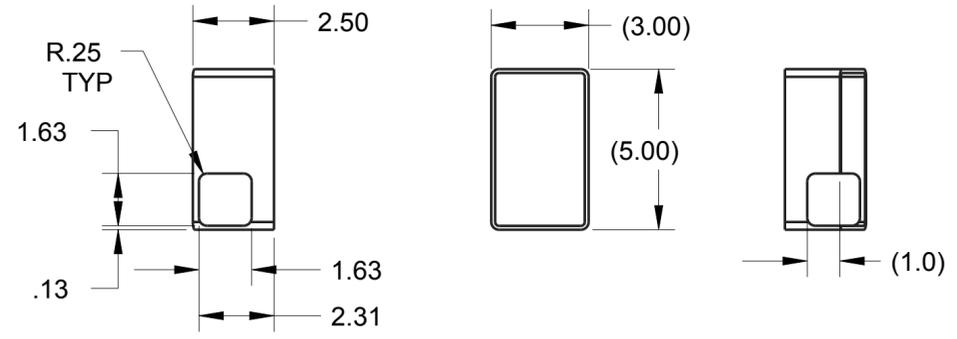
2

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4



ITEM 4: STEEL TUBE
 MATERIAL: 5"x3"x.12" A500 STEEL TUBING
 QTY: 1



ITEM 5: SOCKET PIPE
 MATERIAL: 1-1/2" SCHEDULE 40 A500 STEEL PIPE
 QTY: 6

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 .XXXX ±0.001 ANG ±.1</small>		TITLE: BASE	
DO NOT SCALE	PROJECT	MODEL NAME: GE-16005	ISSUE

MODEL NAME
GE-16005

TITLE

BASE

1

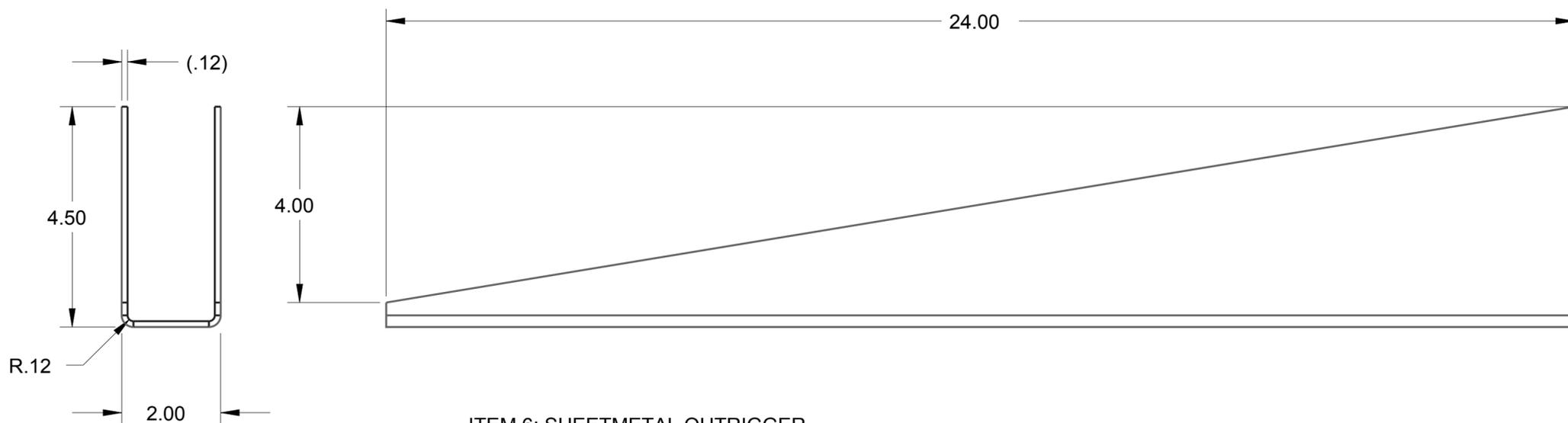
2

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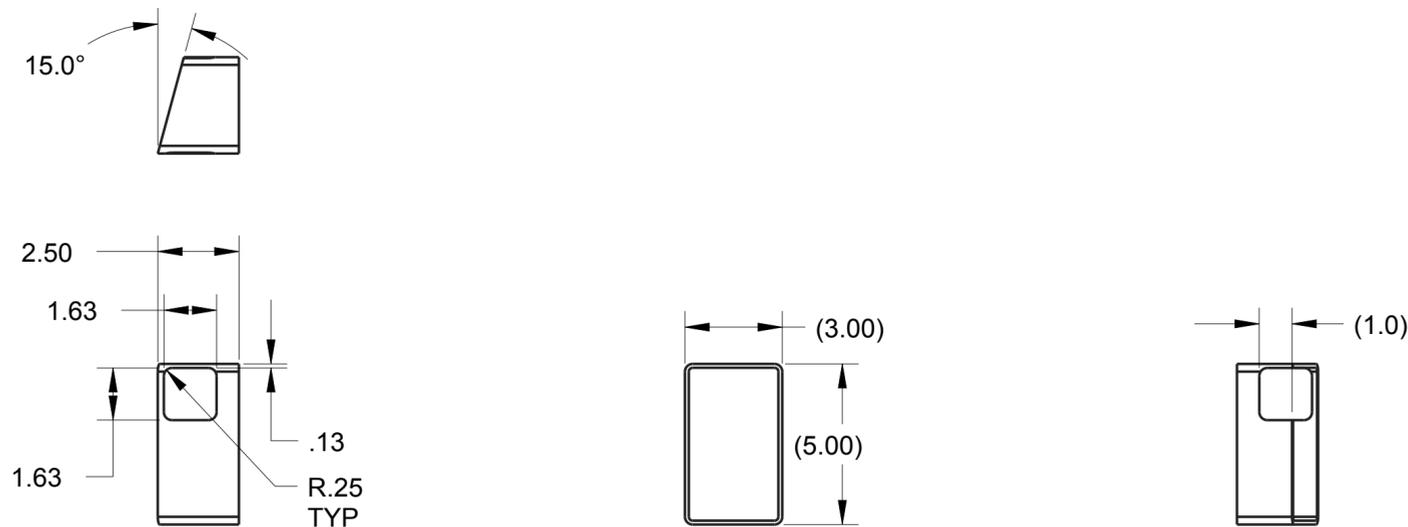
ITEM 6: SHEETMETAL OUTRIGGER
 MATERIAL: 11 GAUGE A569 SHEET STEEL
 QTY: 2

C

C

B

B



ITEM 7: STEEL TUBE
 MATERIAL: 5"x3"x.12" A500 STEEL TUBING
 QTY: 1

A

A

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 .XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small>		TITLE BASE	
DO NOT SCALE		PROJECT	MODEL NAME GE-16005
			ISSUE

1

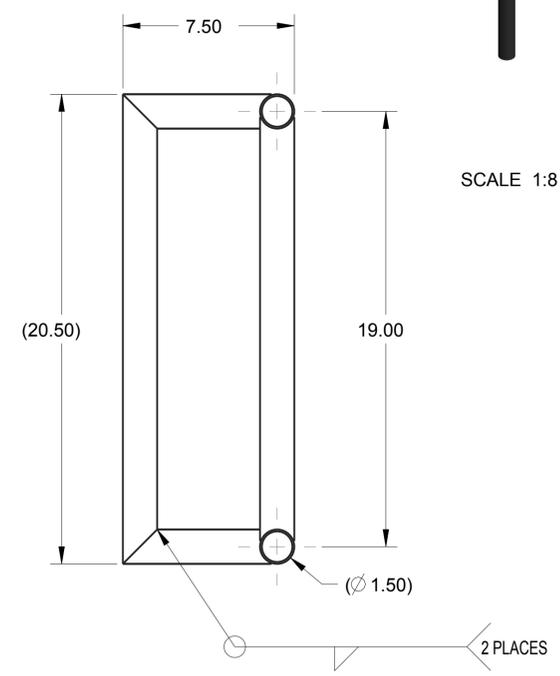
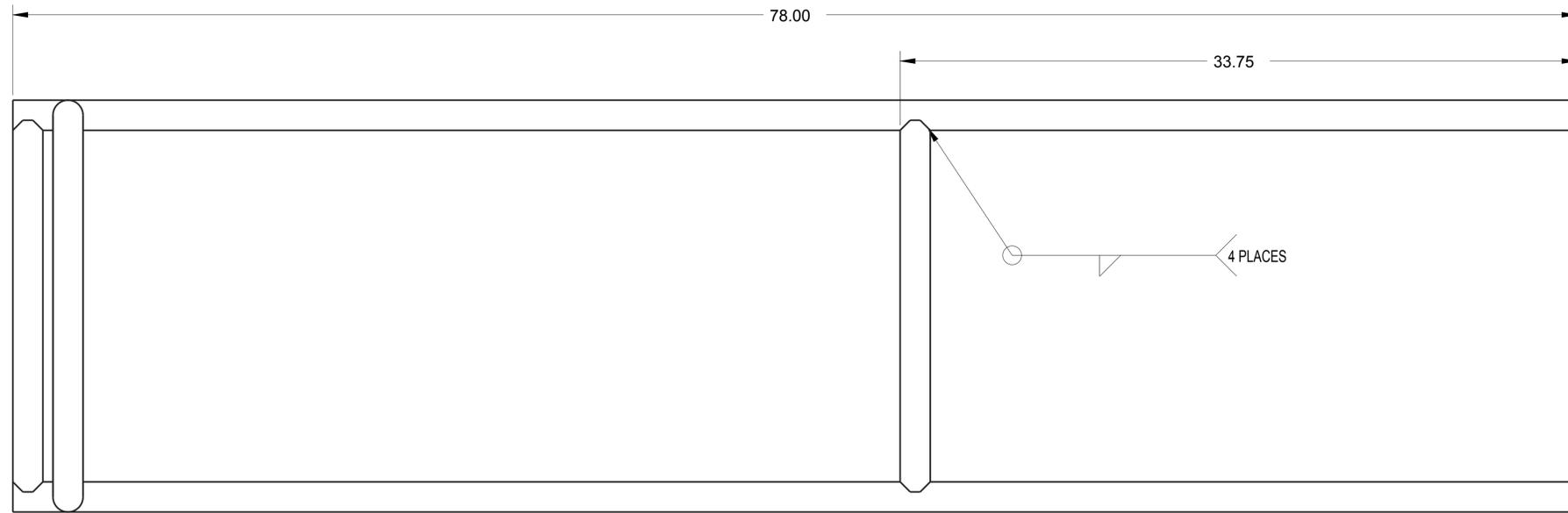
2

3

4

MODEL NAME: GE-16006
 TITLE: LOWER FRAME

REV	LOCATION	DESCRIPTION	DATE	INITIALS
A	A-2	BLACK WAS GRAY	11/10/15	DAF
B	A-4	ADDED WALL THICKNESS	12/8/2015	DAF



NOTES:
 1. MATERIAL: 1-1/2" DIA. A513 STEEL, DOM TUBING, .083 WALL THICKNESS
 2. PAINT: POWDER COAT BLACK



 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____		
	TITLE: LOWER FRAME		
	PROJECT: _____	MODEL NAME: GE-16006	SHEET 1 OF 1
	ISSUE: _____		

1 2 3 4 5 6 7 8

E

E

D

D

C

C

B

B

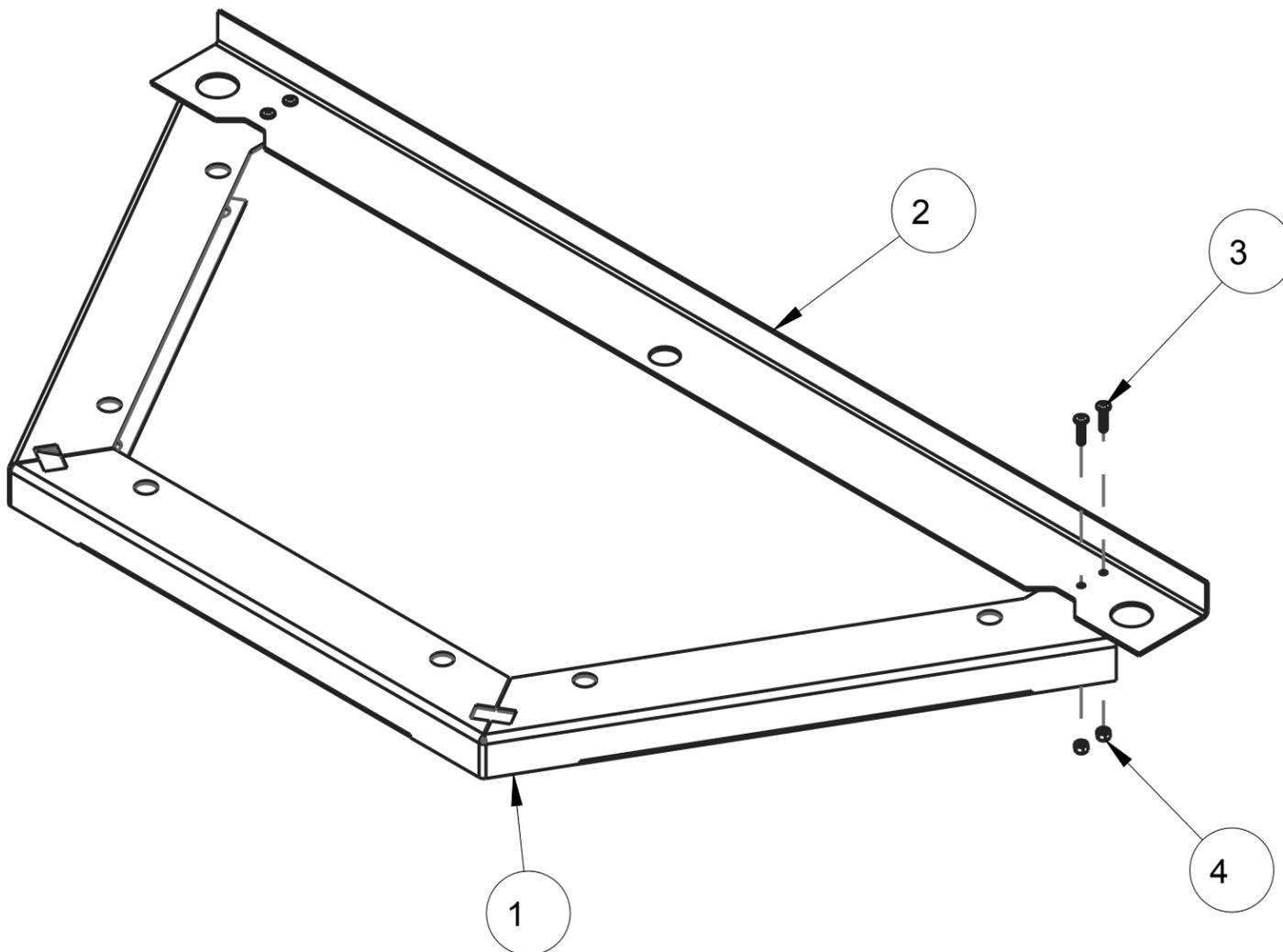
A

A

1 2 3 4 5 6 7 8

MODEL NAME
GE-16007

TITLE
LOWER CAP. TOWER



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16007-01	1	Lower Cap	
2	GE-16007-02	1	Brace, Welded Field	
3	HW-00086	4	pan head, 1/4-20 x 1"	
4	HW-00087	4	nut, nylock 1/4-20	

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE LOWER CAP. TOWER		
PROJECT		MODEL NAME GE-16007
ISSUE		

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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

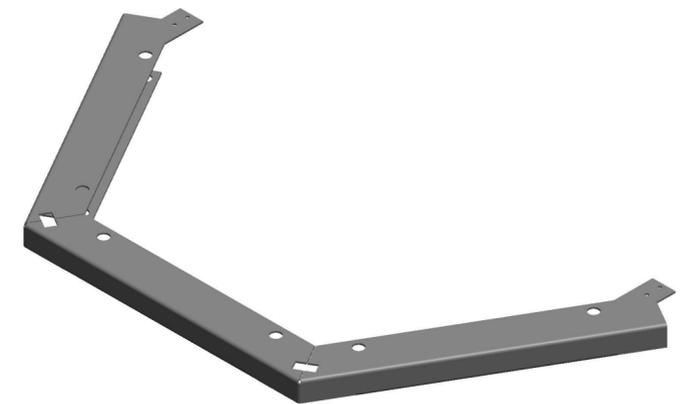
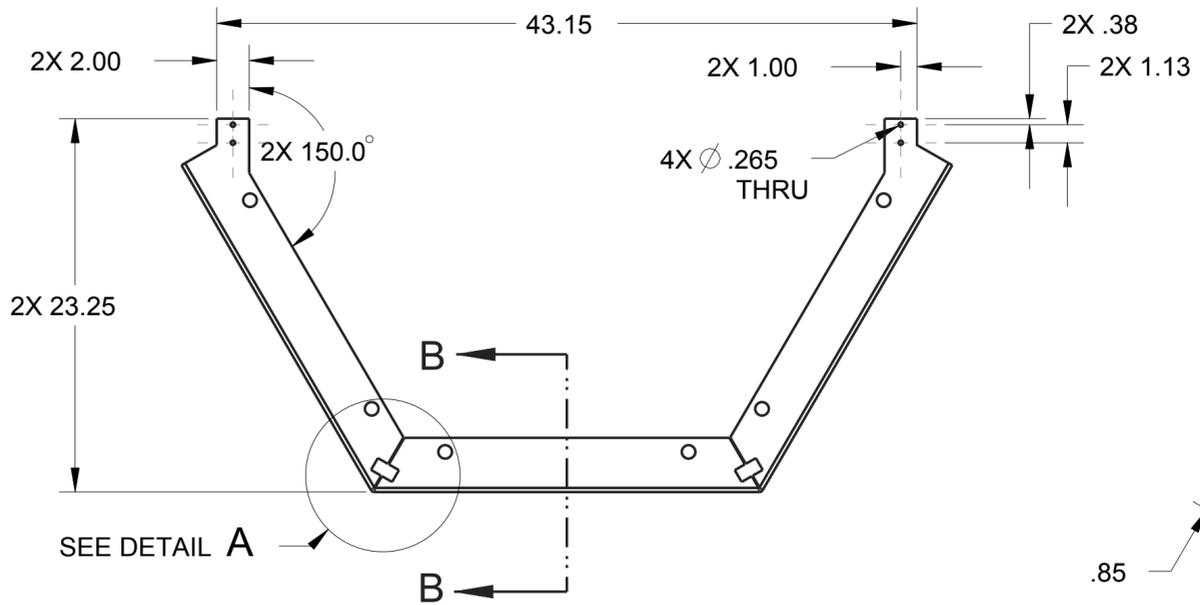
DO NOT SCALE

MODEL NAME
GE-16007-01

TITLE
LOWER CAP

D

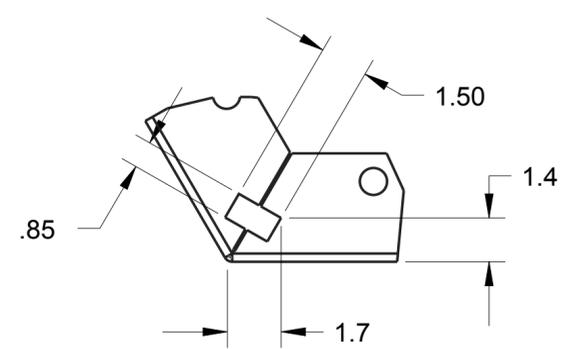
D



SCALE 1:8

C

C

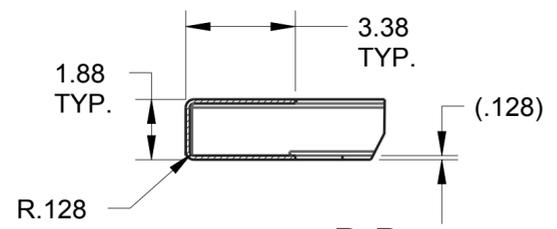
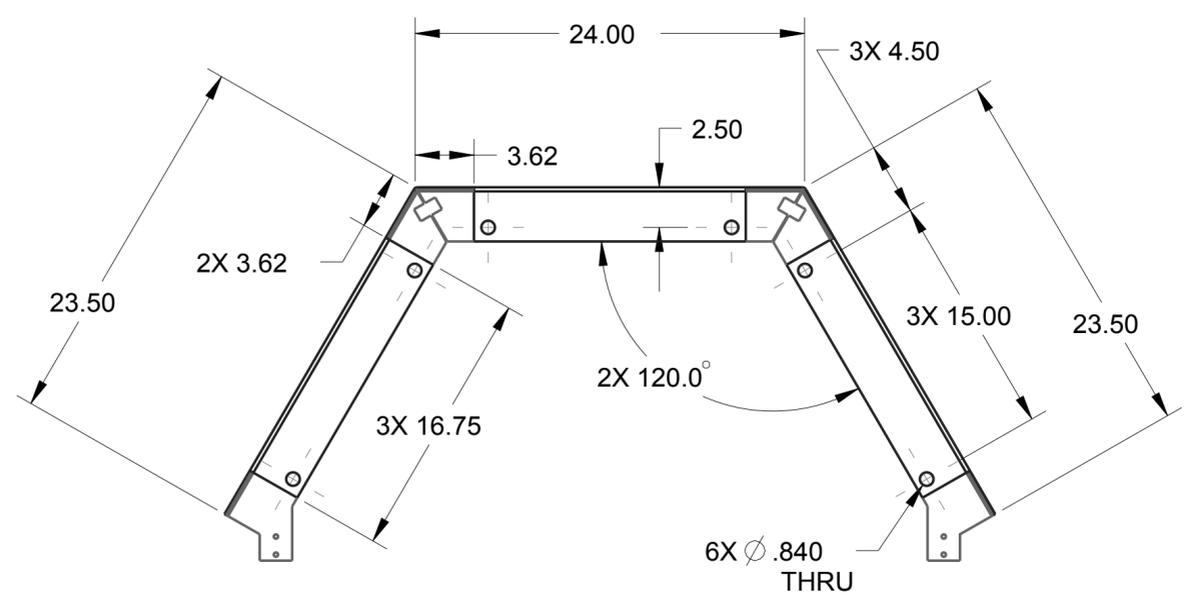


DETAIL A
SCALE 1:4
TYP. 2 PLACES



B

B



SECTION B-B
SCALE 1:4

A

A

NOTES:
1. MATERIAL: 8 GAUGE 5052 ALUMINUM SHEET

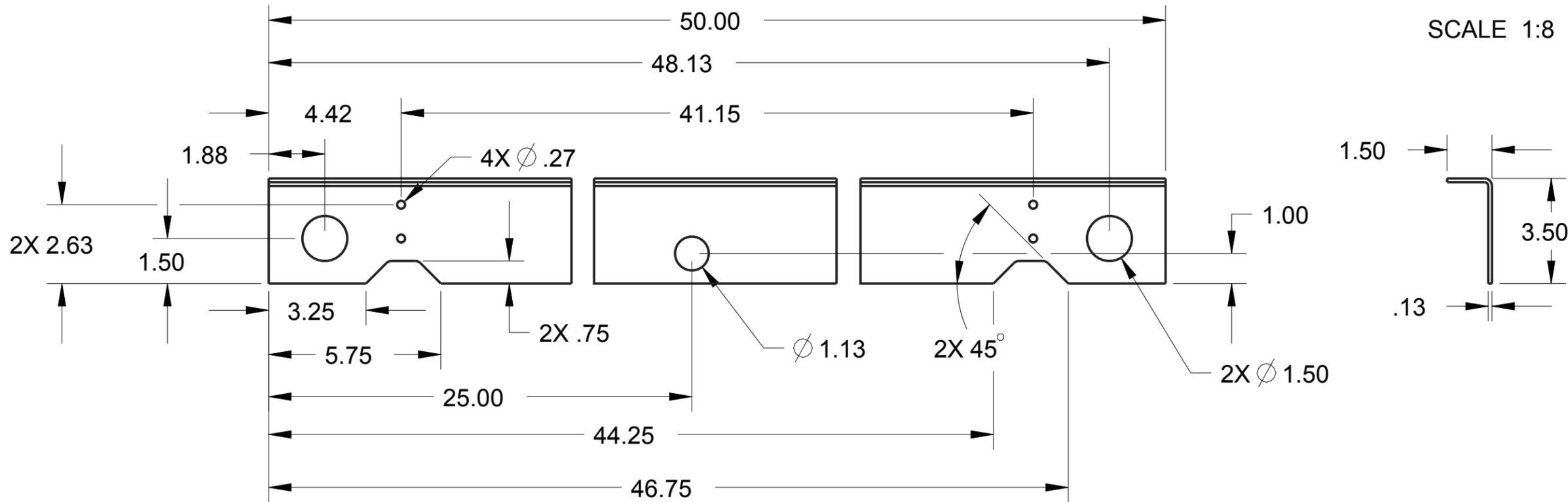
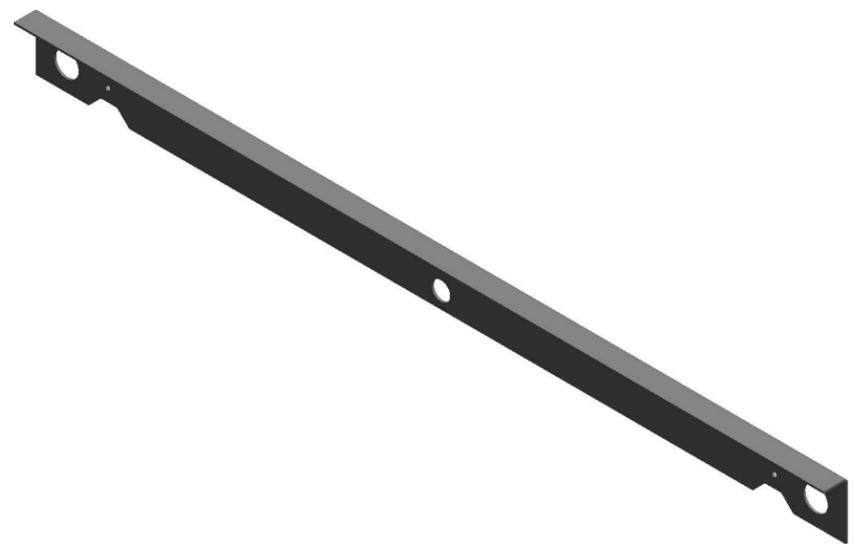
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		APPROVED BY	DATE
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TITLE LOWER CAP		PROJECT	MODEL NAME GE-16007-01
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 .XXXX ±0.001 ANG ±1		ISSUE	
DO NOT SCALE			

1

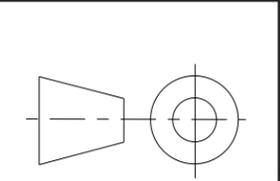
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4



NOTES:
1. MATERIAL: 5052 ALUMINUM SHEET

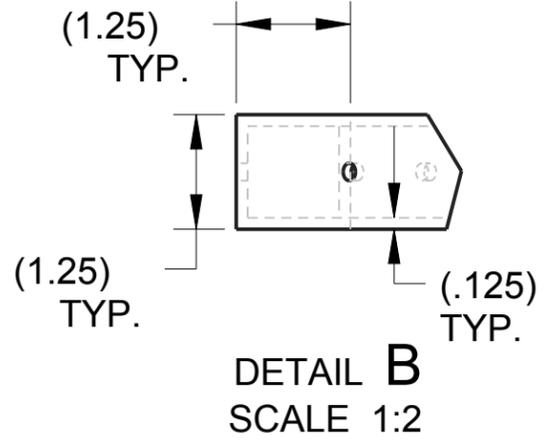
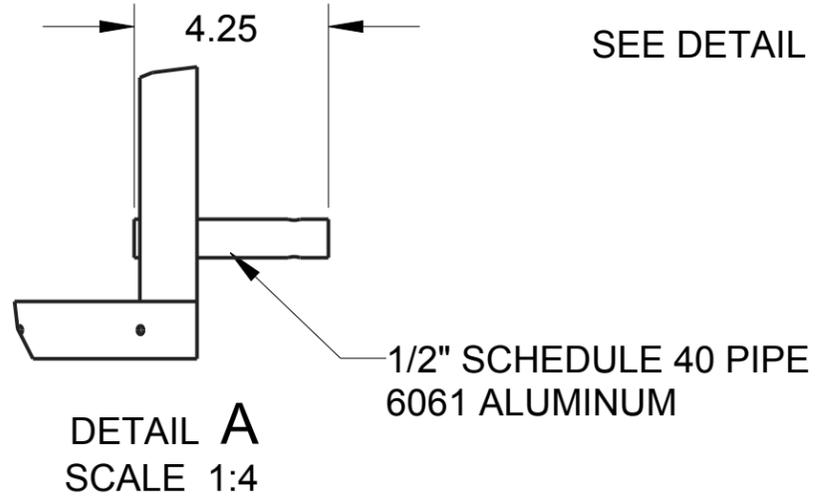
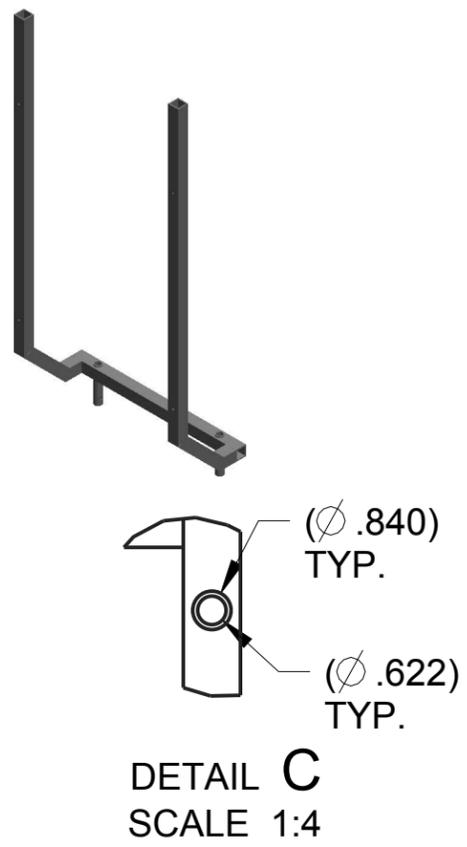
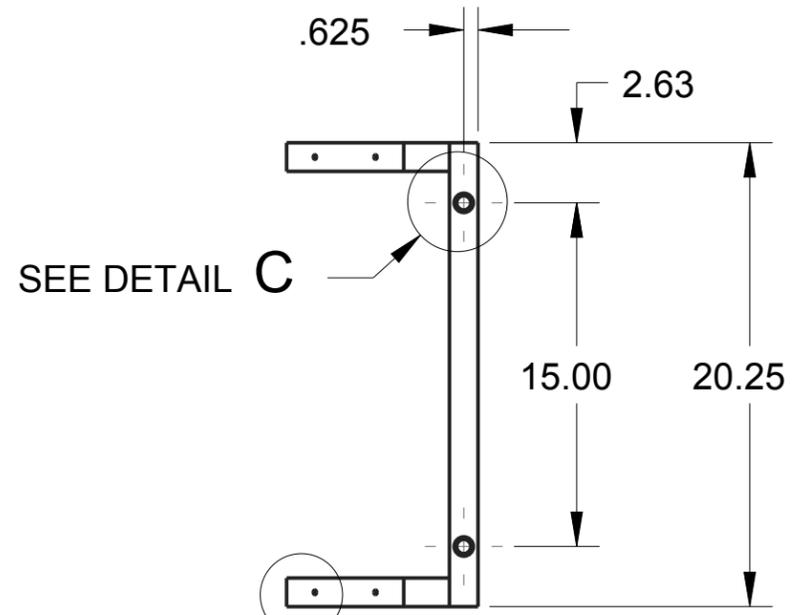
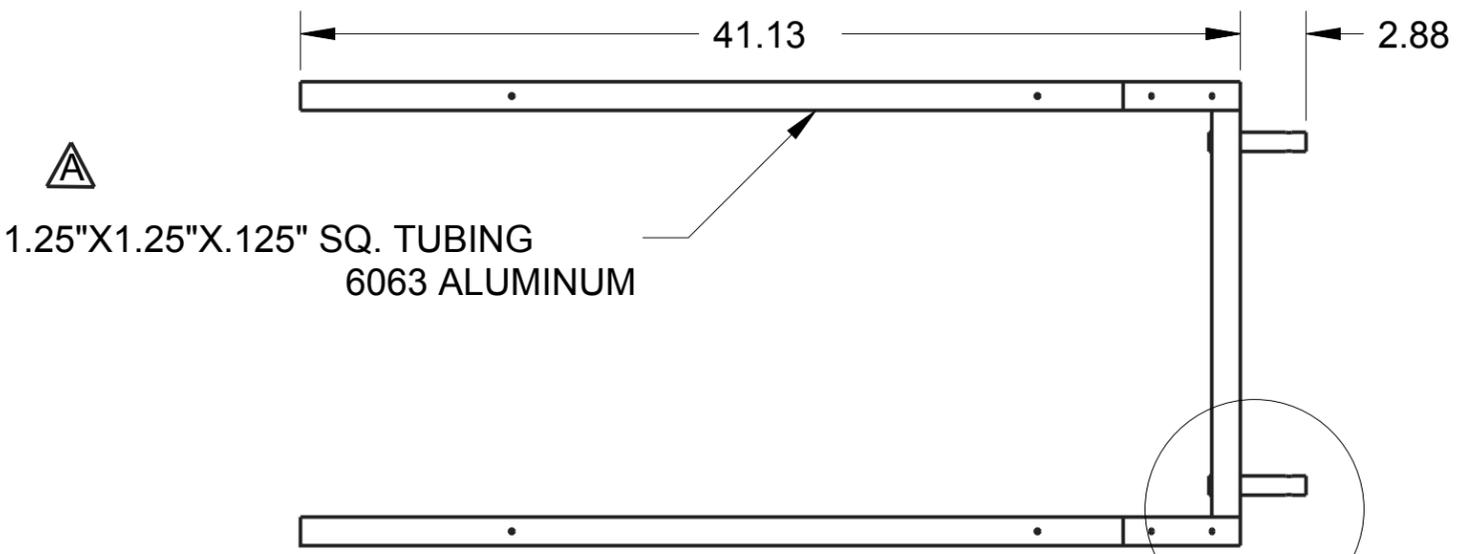
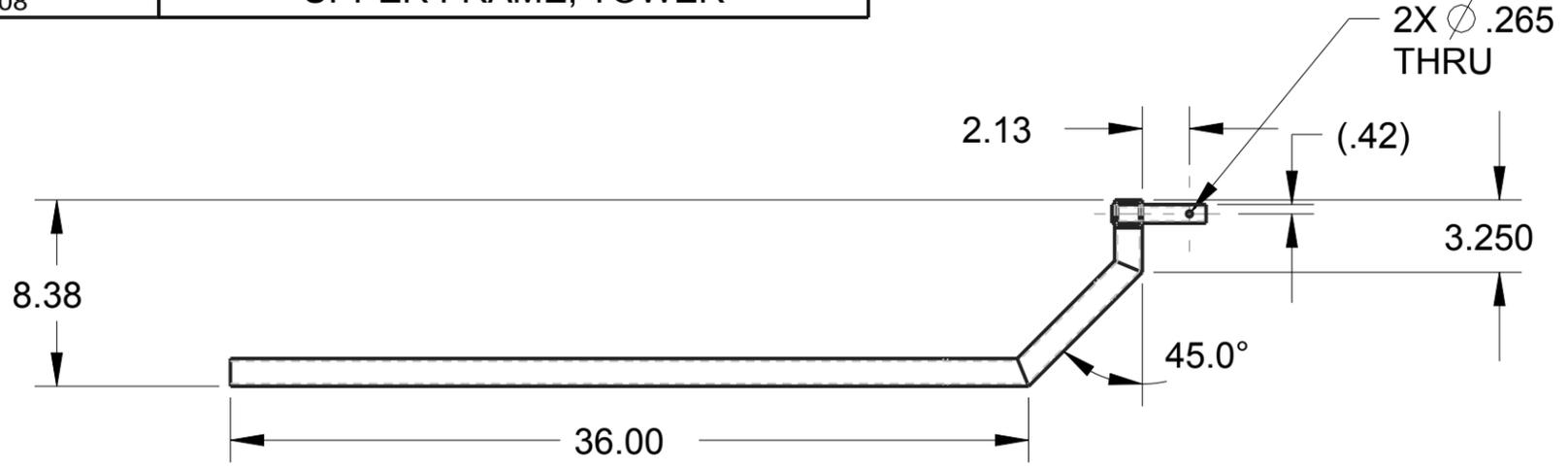


UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Brace,Welded Field		SHEET 1 OF 1
PROJECT	MODEL NAME GE-16007-02	ISSUE

REV	LOCATION	DESCRIPTION	DATE	INITIAL
A	C-1	1.25"x1.25" WAS 1.5"x1.5"	11/10/2015	DAF
B	SHEET 3	ADDED SHEET 3	12/16/15	DAF



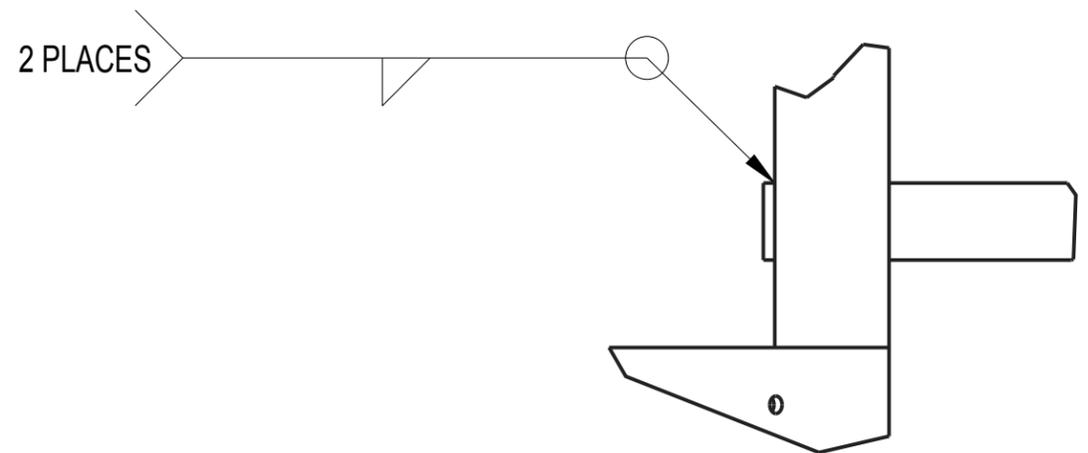
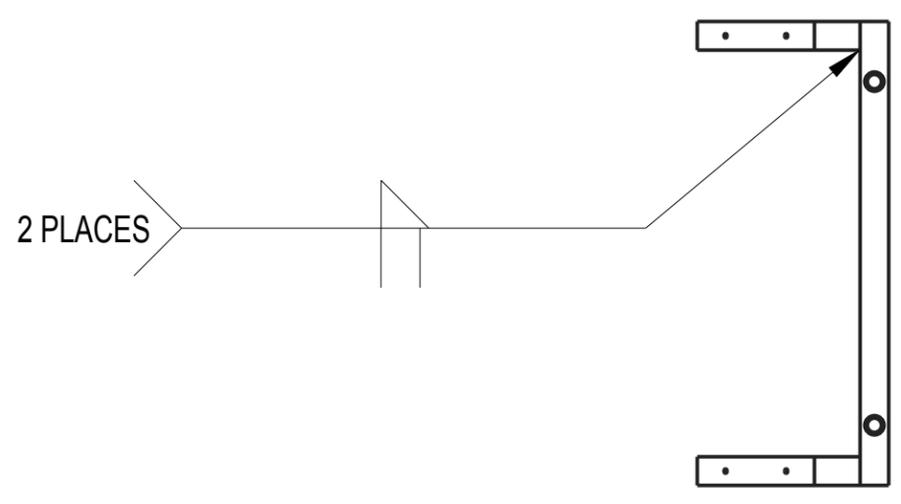
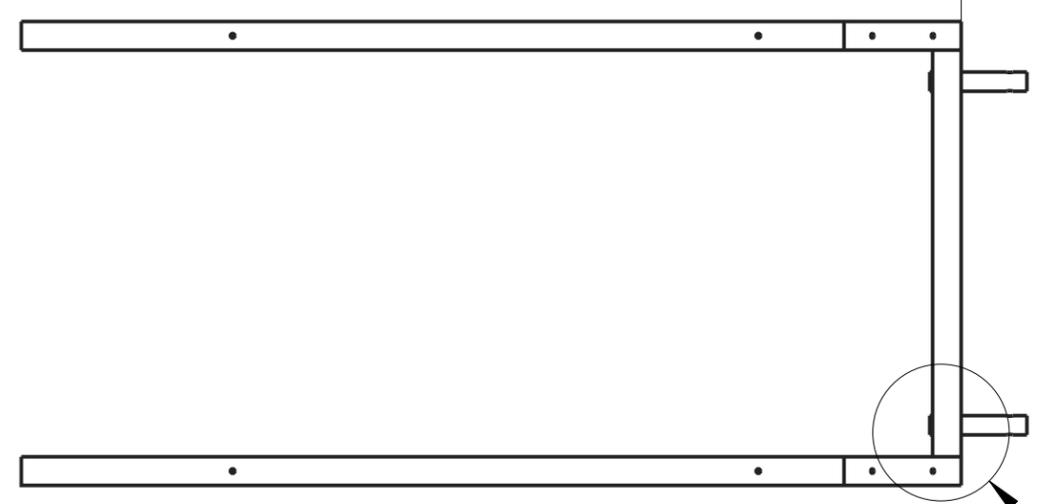
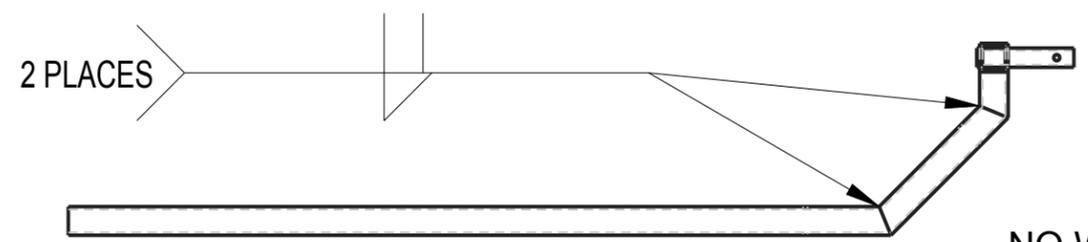
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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE: UPPER FRAME, TOWER		SHEET 1 OF 3
PROJECT	MODEL NAME: GE-16008	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- .1°
 DO NOT SCALE

MODEL NAME
GE-16008

TITLE
UPPER FRAME, TOWER

REV	LOCATION	DESCRIPTION	DATE	INITIAL
A	C-3	ADDED "NO WELD PERMISSIBLE THIS SURFACE"	11/10/2015	DAF



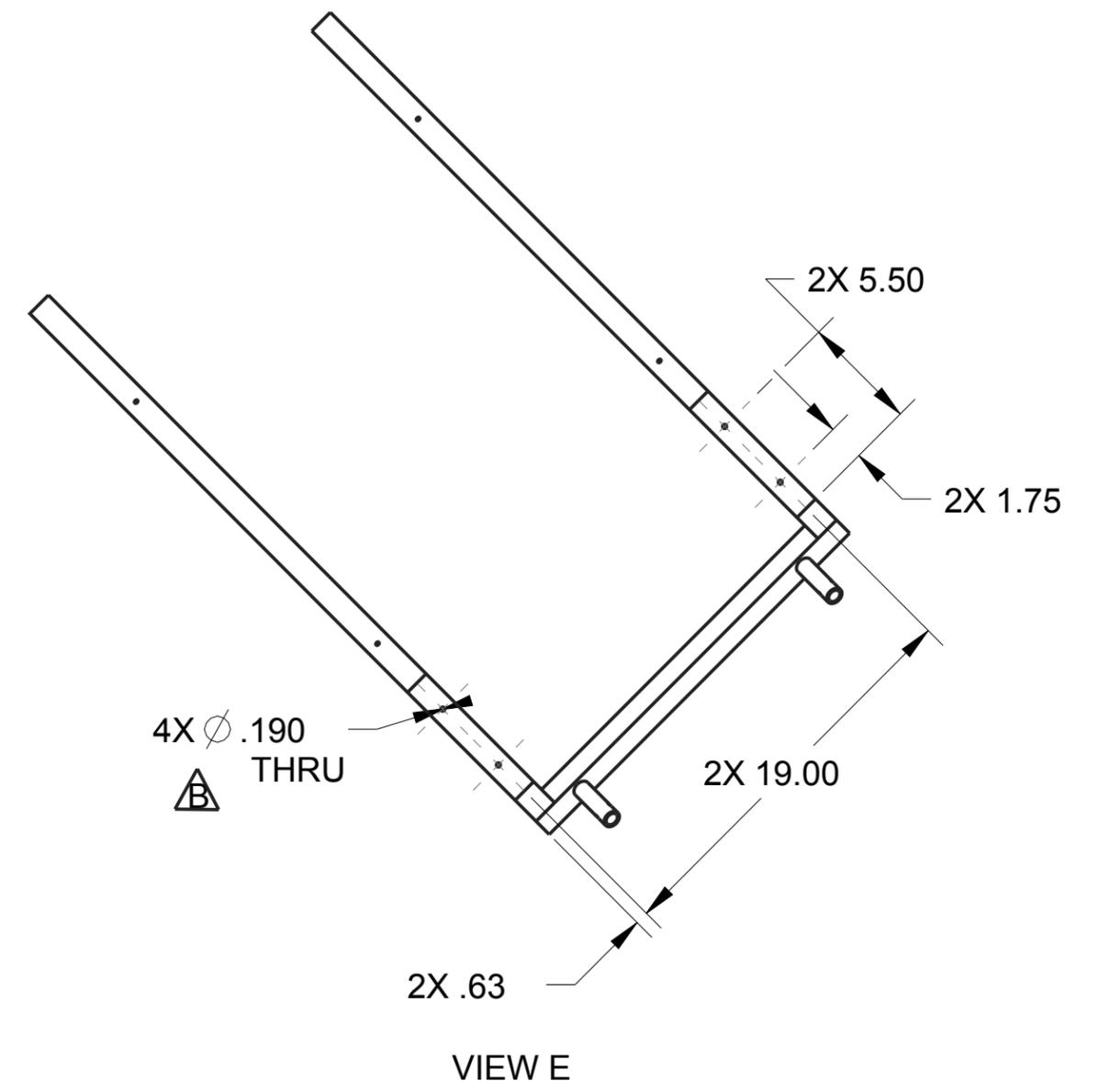
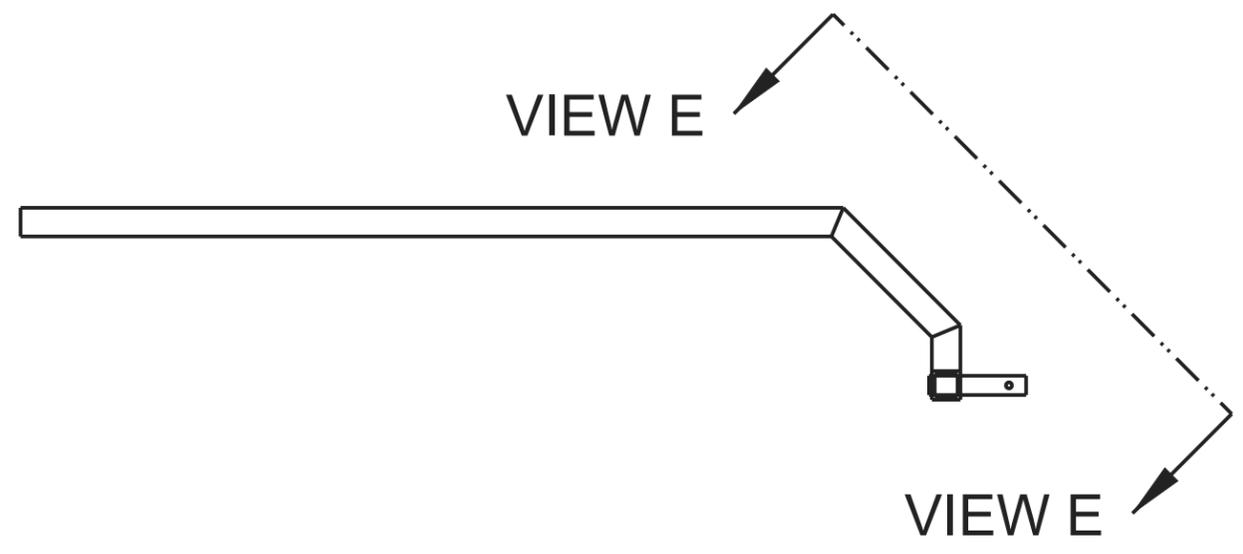
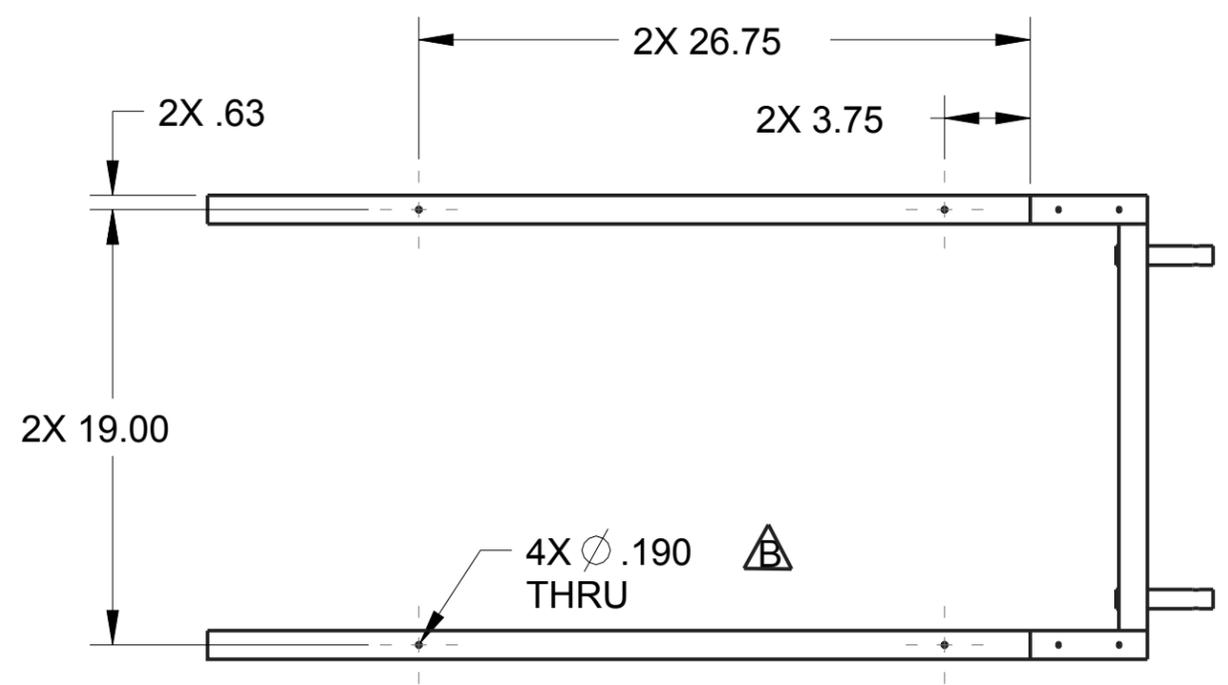
DETAIL D
SCALE 1:2

	DRAWN BY	DATE
	CHECKED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE UPPER FRAME, TOWER	
DO NOT SCALE	PROJECT	MODEL NAME GE-16008
		ISSUE

MODEL NAME
GE-16008

TITLE
UPPER FRAME, TOWER

REV	ZONE	DESCRIPTION	INITIAL	DATE
B	B-3, C-2	ADDED .190 HOLE (QTY 8)	DAF	12/16/2015

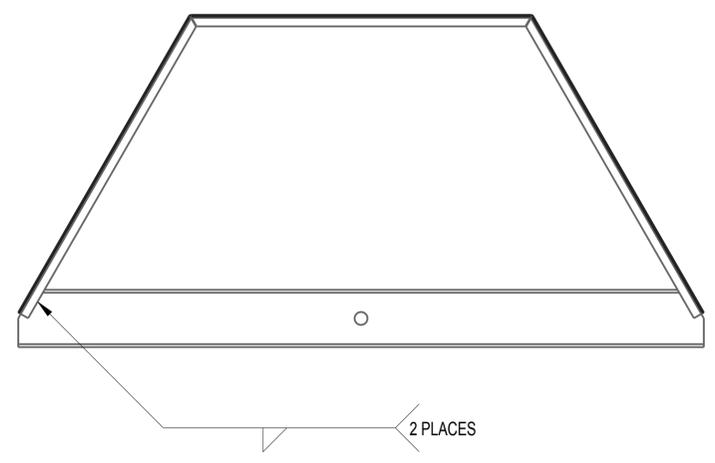
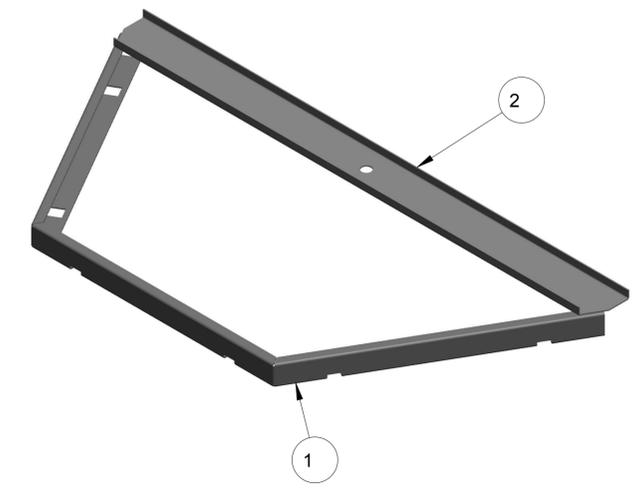
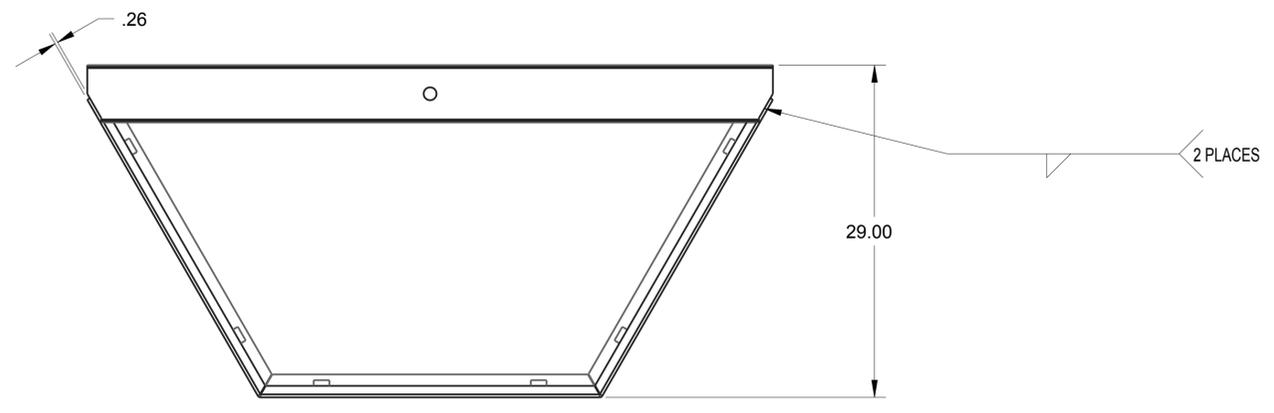


	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 1:8 SHEET 3 OF 3
TITLE UPPER FRAME, TOWER		
PROJECT	MODEL NAME GE-16008	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

MODEL NAME: GE-16009 TITLE: UPPER CAP

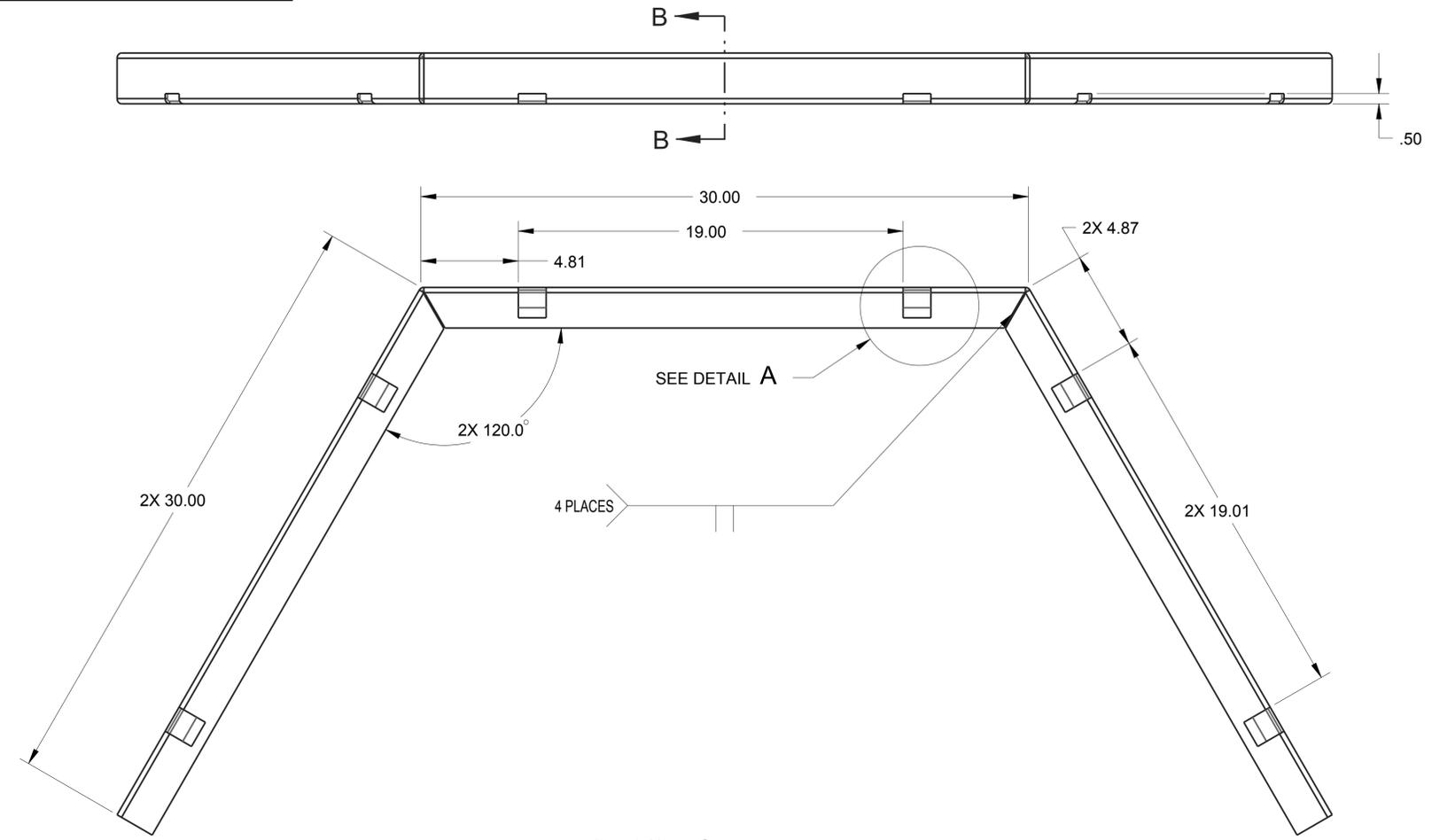


SECTION A-A

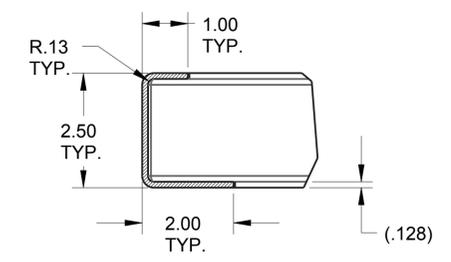
ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16009-01	1	frame
2	GE-16009-02	1	horizontal brace

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE UPPER CAP		SCALE 1:8
PROJECT		SHEET 1 OF 2 MODEL NAME GE-16009
ISSUE		

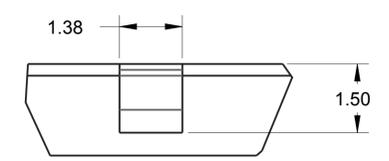
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± .1
 DO NOT SCALE



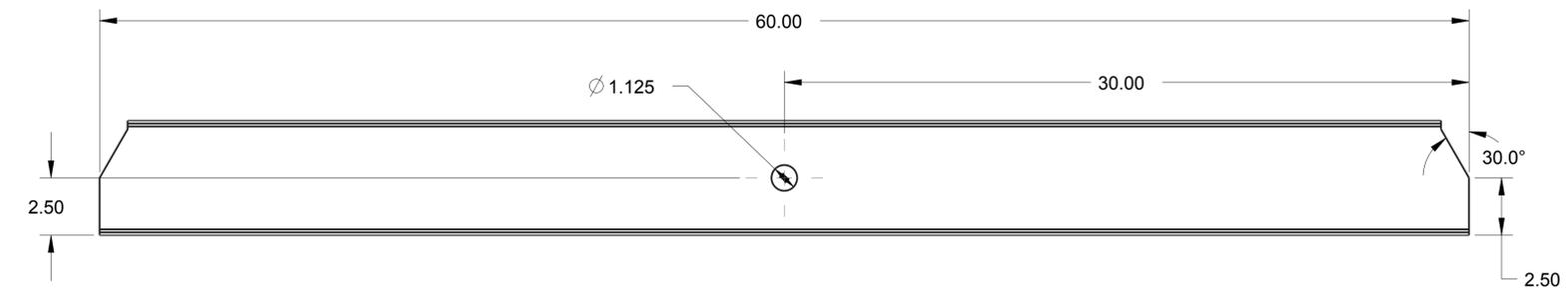
Item 1: Upper Cap
Material: 8 gauge 5052 Aluminum
Qty: 1



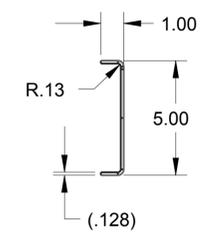
SECTION B-B
SCALE 1:2



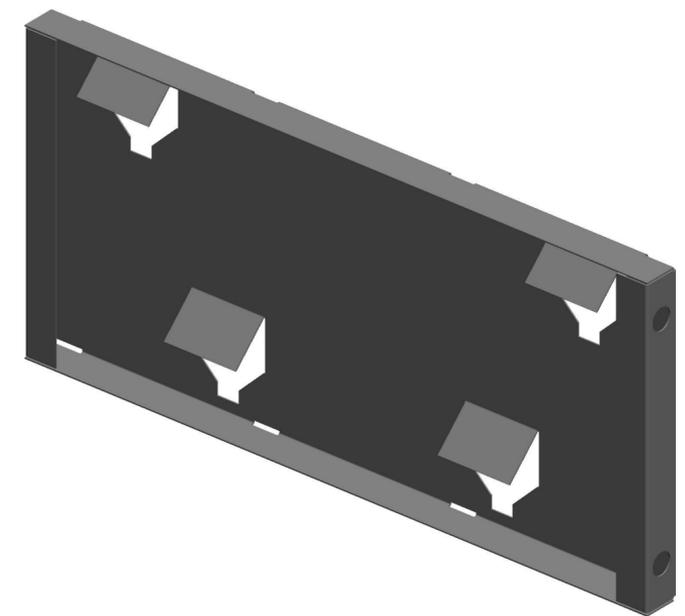
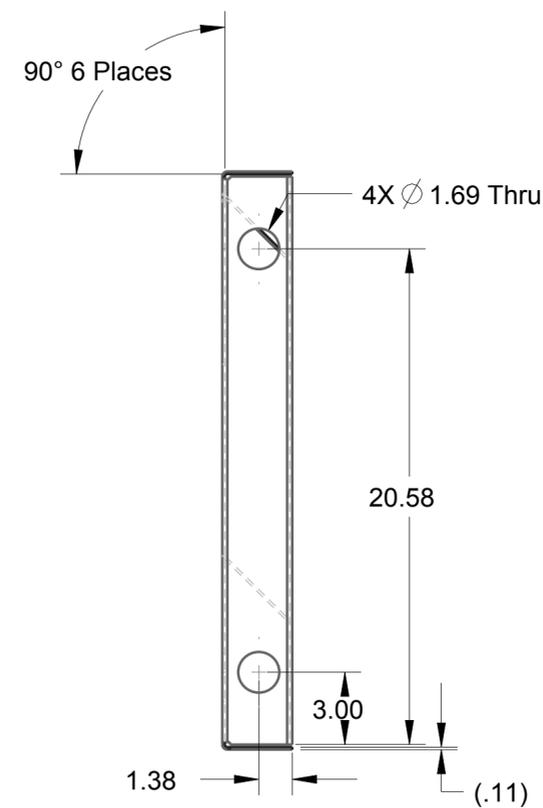
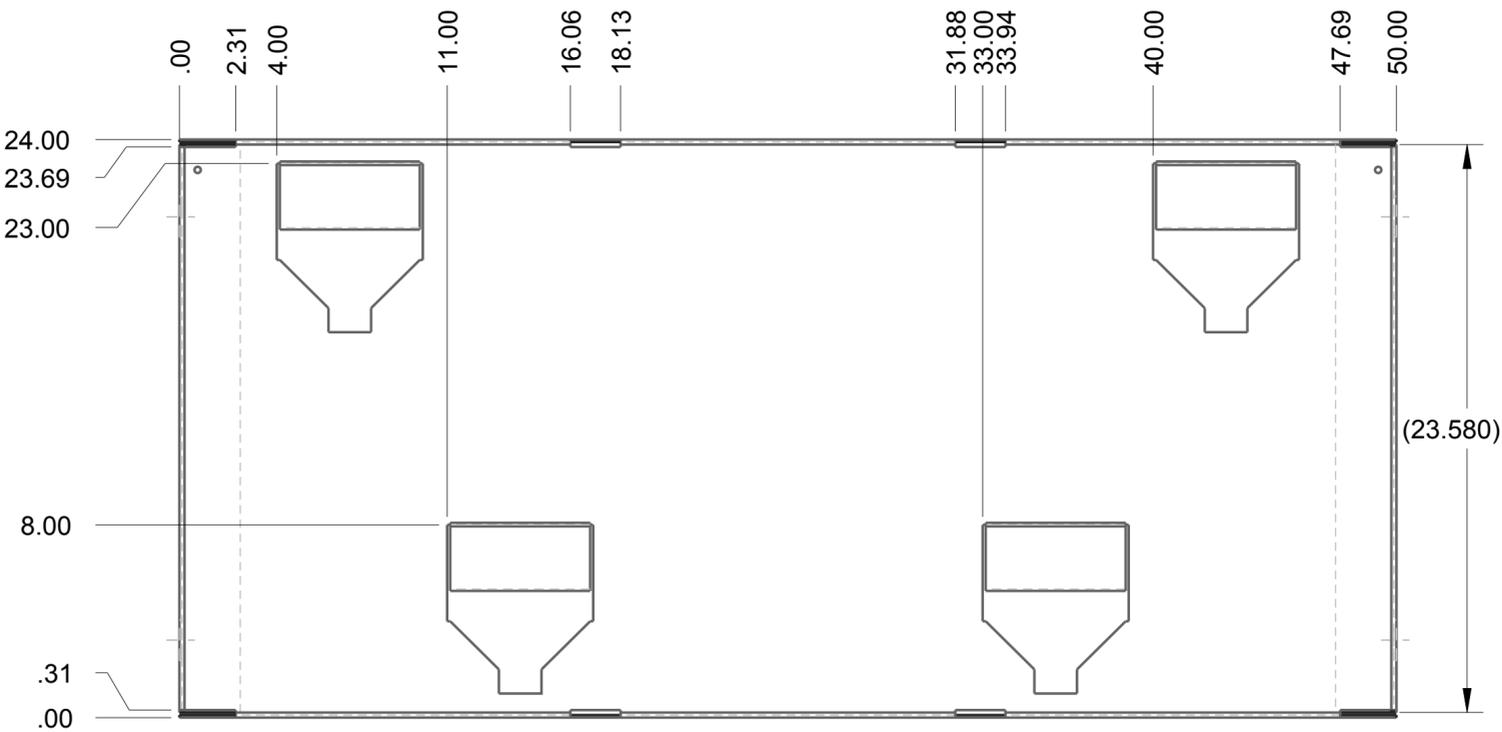
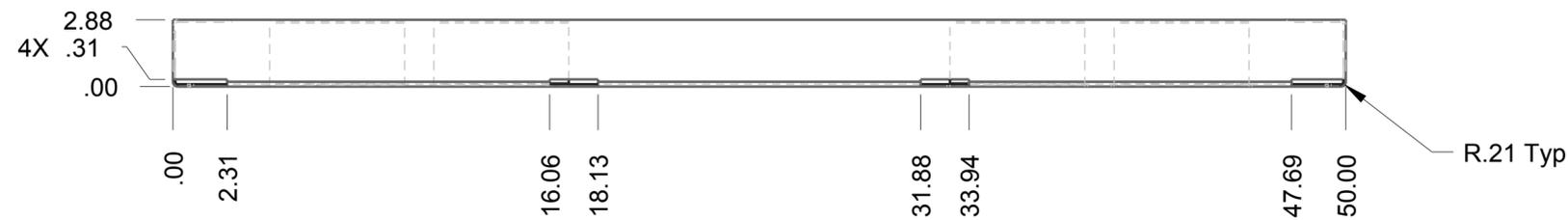
DETAIL A
SCALE 1:2



Item 2: Horizontal Brace
Material: 8 gauge 5052 Aluminum
Qty: 1



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 X.XXX ± 0.001 ANG ± .1	 <small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>		DRAWN BY	DATE
			CHECKED BY	DATE
			APPROVED BY	DATE
			SCALE 1:8	
TITLE UPPER CAP		PROJECT	MODEL NAME GE-16009	ISSUE
DO NOT SCALE				



NOTE:
 Material: .105" Cold Rolled, Sheet Steel
 Please remove all sharp edges and burrs

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		CHECKED BY	DATE
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TITLE: Carrier, Defense		SCALE 3:16	SHEET 1 OF 2
PROJECT:		MODEL NAME: GE-16010	ISSUE:
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 .XXX +/- 0.01 .XXXX +/- 0.001 ANG +/- .1		DO NOT SCALE	

MODEL NAME
GE-16010

TITLE
Carrier, Defense

D

C

B

A

XSEC0001

XSEC0001

SEE DETAIL A

4 Places R.21

4X 3.88

4X 45°

SECTION XSEC0001-XSEC0001
SCALE 3:8

23.580

2.500

.00

2.74

4.00

6.00

7.00

.00

.13

2.13

3.88

5.88

6.00

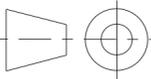
DETAIL A
SCALE 1:2

D

C

B

A

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 3:16	SHEET 2 OF 2
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 X.XXX ±0.001 ANG ±1		TITLE Carrier, Defense	
DO NOT SCALE		PROJECT	MODEL NAME GE-16010
			ISSUE

1

2

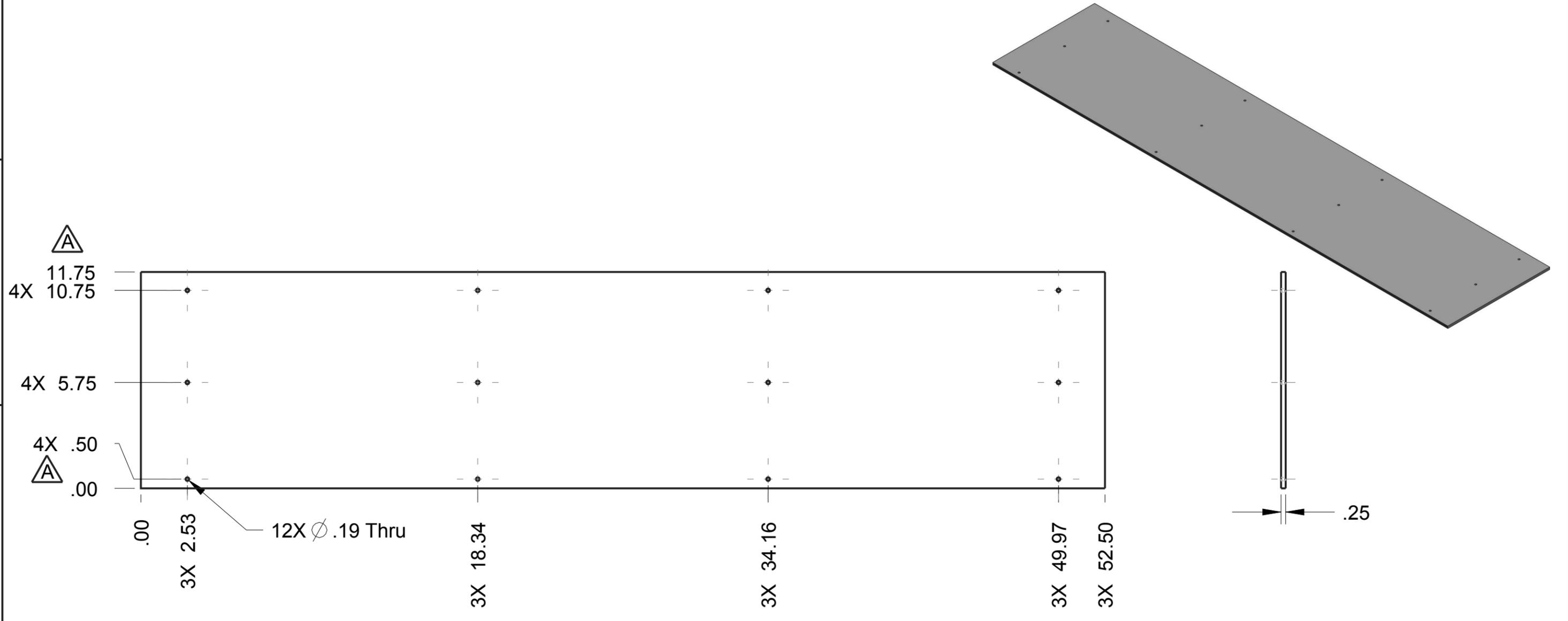
3

4

MODEL NAME
GE-16011

TITLE
DEFENSE RAMP

REV	ZONE	DESCRIPTION	INITIALS	DATE
A	B-1, C-1	.50 WAS .75, 11.75 WAS 12.00	DAF	12/16/15



NOTE

Material: 1/4" CLEAR POLYCARBONATE, SANDED ONE SIDE

Scale: 3:16

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE DEFENSE RAMP		SHEET 1 OF 1
PROJECT		MODEL NAME GE-16011
DO NOT SCALE		ISSUE

1

2

3

4

D

D

C

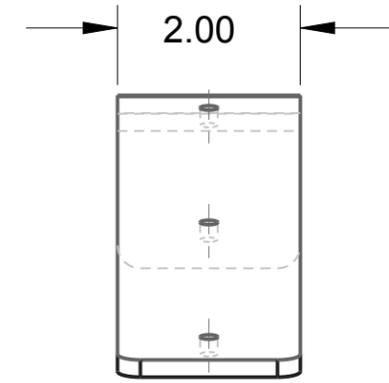
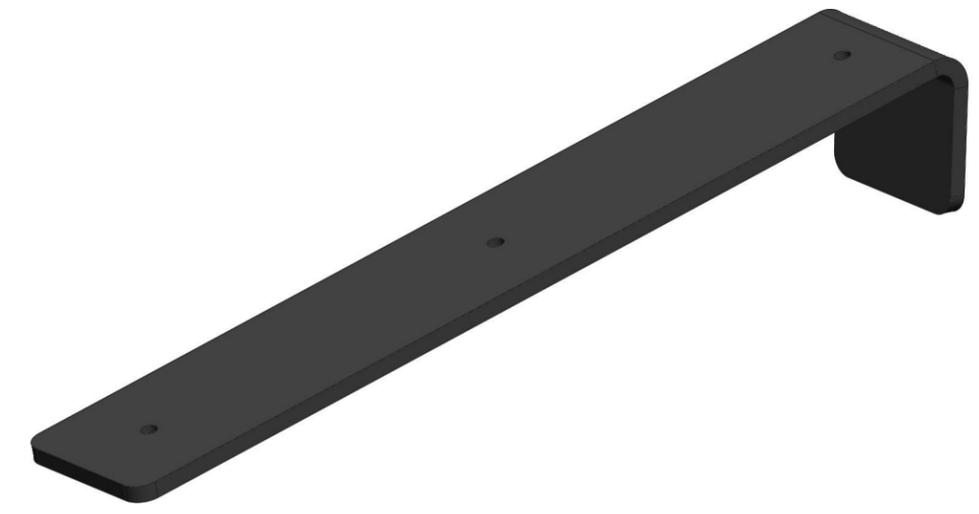
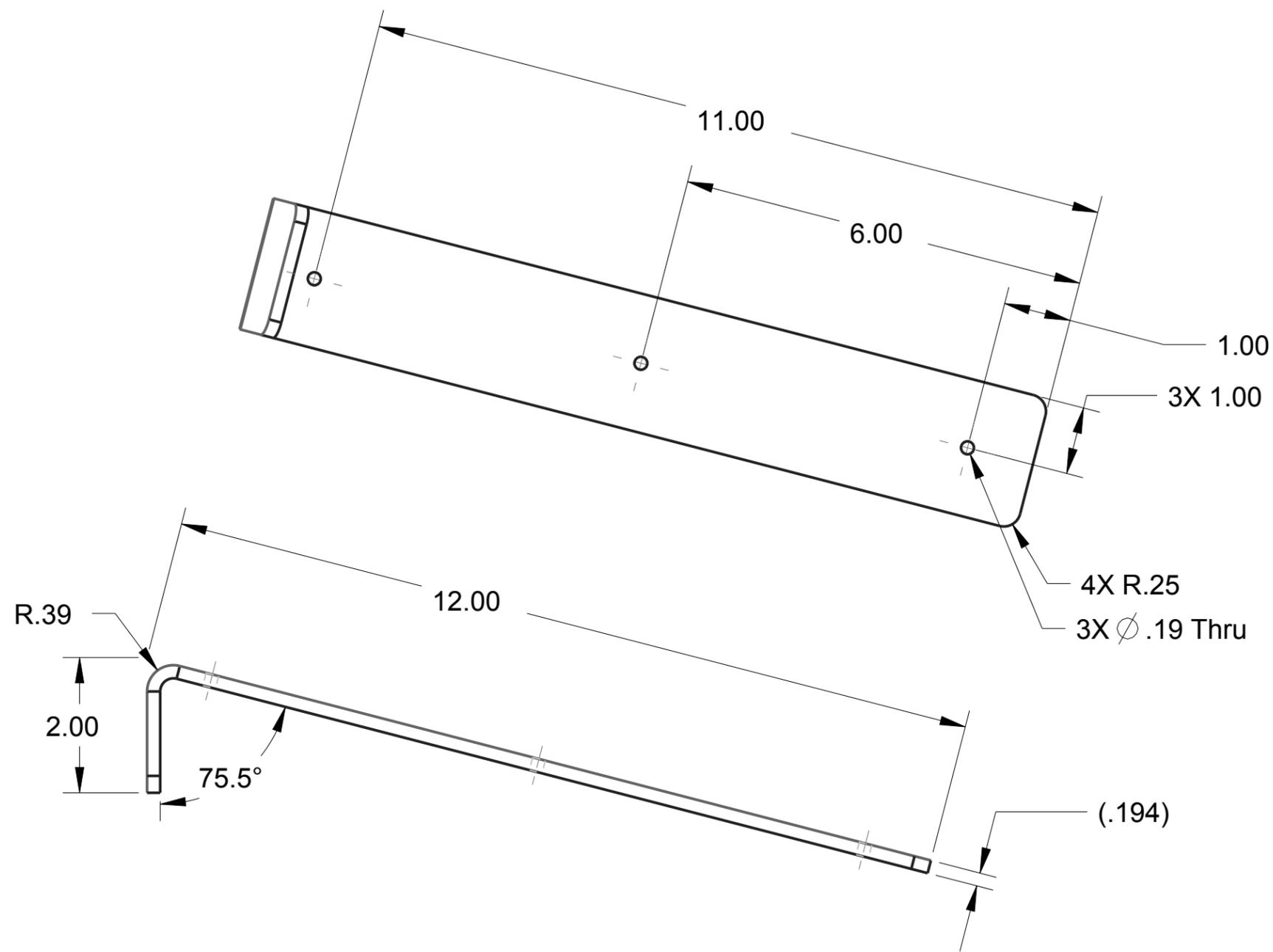
C

B

B

A

A



NOTE

Material: 6 Gauge Steel Sheet, .194 Thick
Scale: 1:2

Remove all burrs and sharp edges

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE RAMP SUPPORT			
PROJECT		MODEL NAME GE-16012	ISSUE
DO NOT SCALE			

1

2

3

4

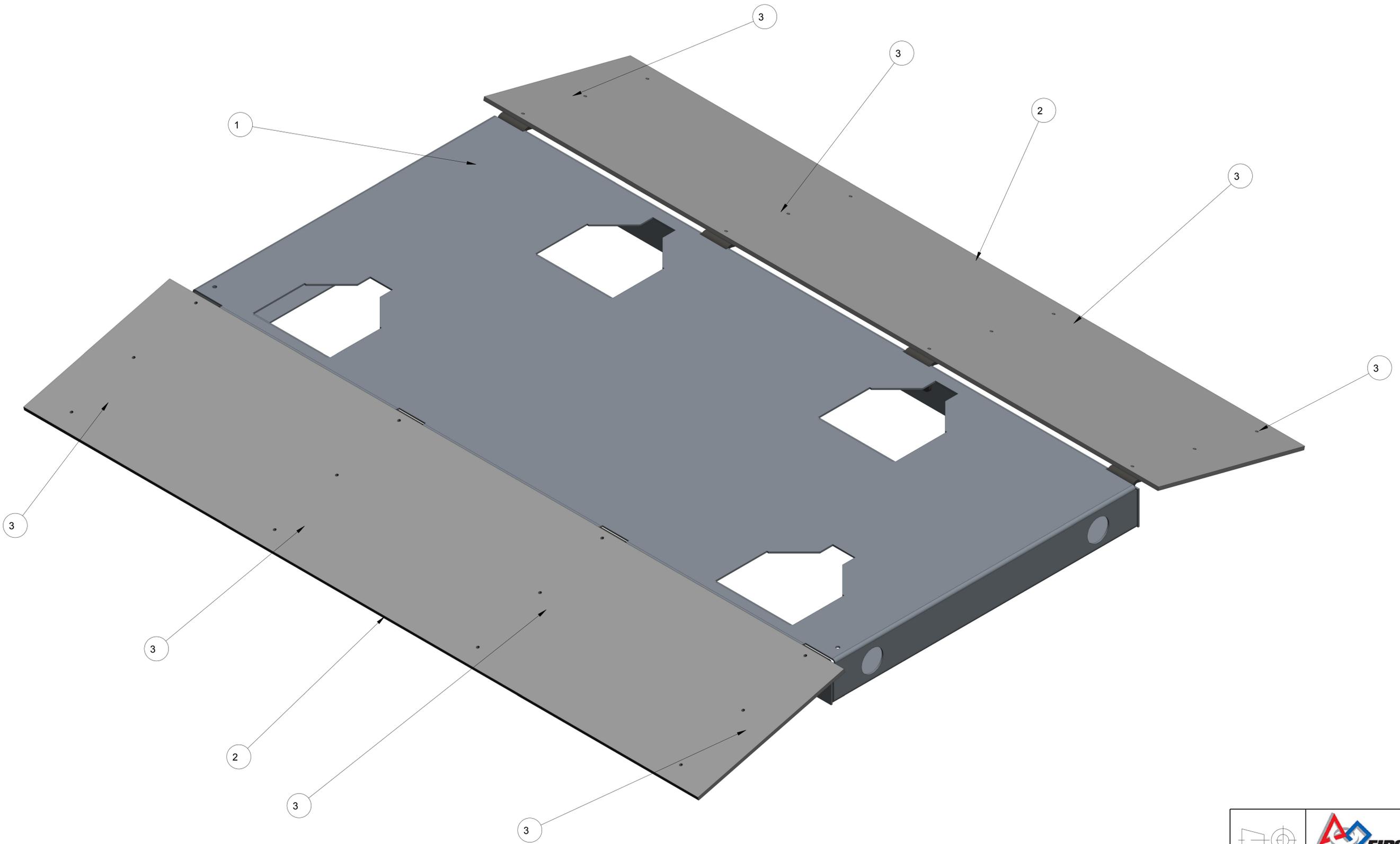
1 2 3 4 5 6 7 8

MODEL NAME: GE-16013
 TITLE: DEFENSE PLATFORM ASSEMBLY

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	Sheet 3, D5	Sanded side down	NJS	1/18/16

E
D
C
B
A

E
D
C
B
A



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16010	1	Steel_Defense_Carrier	See Drawing
2	GE-16011	2	DEFENSE RAMP	See Drawing
3	GE-16012	8	RAMP SUPPORT, DEFENSE	See Drawing

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1</small>		<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>
TITLE DEFENSE PLATFORM ASSEMBLY		SCALE 3:8 SHEET 1 OF 3
PROJECT	MODEL NAME	ISSUE
	GE-16013	

1 2 3 4 5 6 7 8

1

2

3

4

5

6

7

8

MODEL NAME
GE-16013

TITLE
DEFENSE PLATFORM ASSEMBLY

E

E

D

D

C

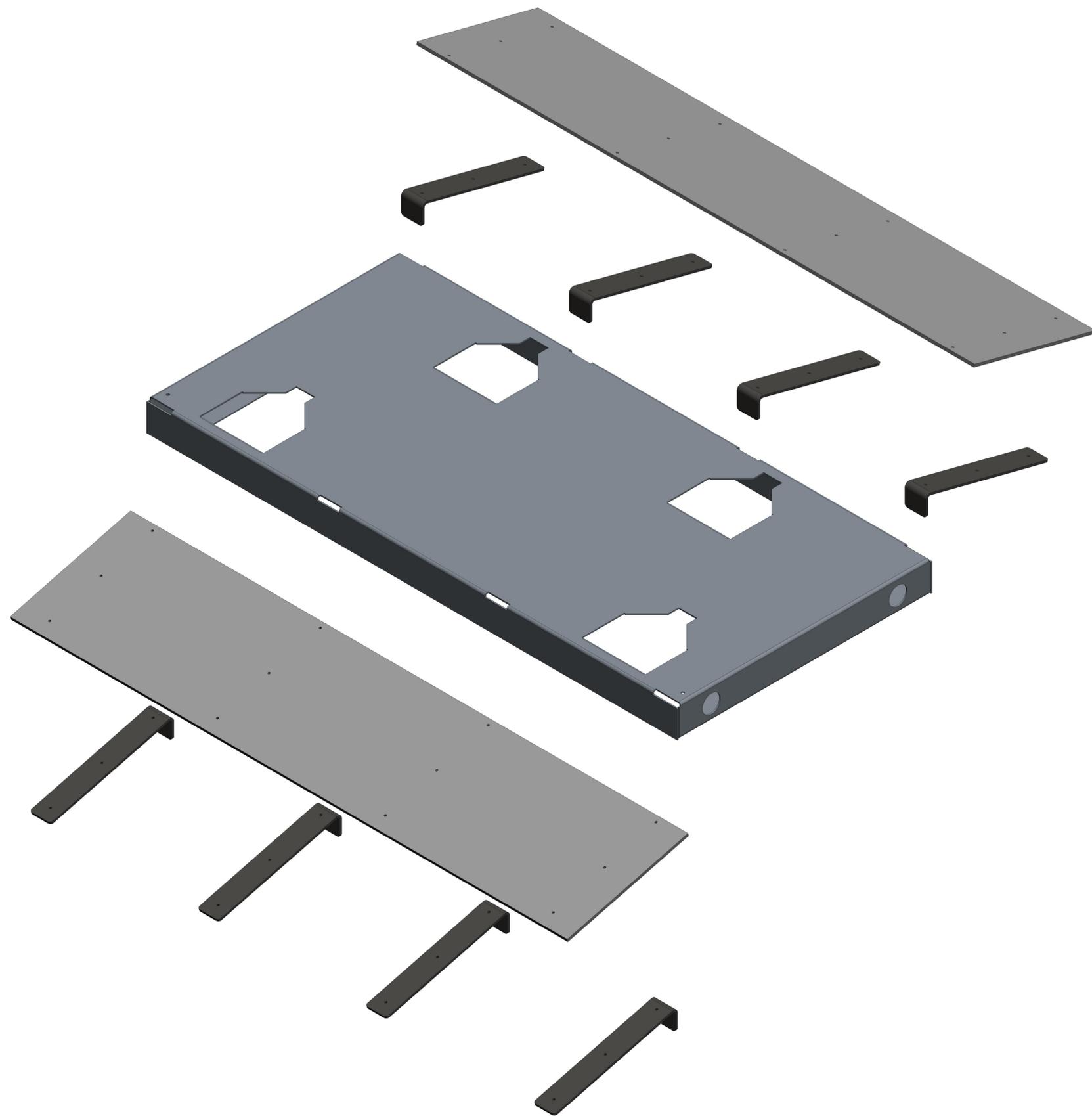
C

B

B

A

A



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE DEFENSE PLATFORM ASSEMBLY		MODEL NAME GE-16013
PROJECT		ISSUE
DO NOT SCALE		

1

2

3

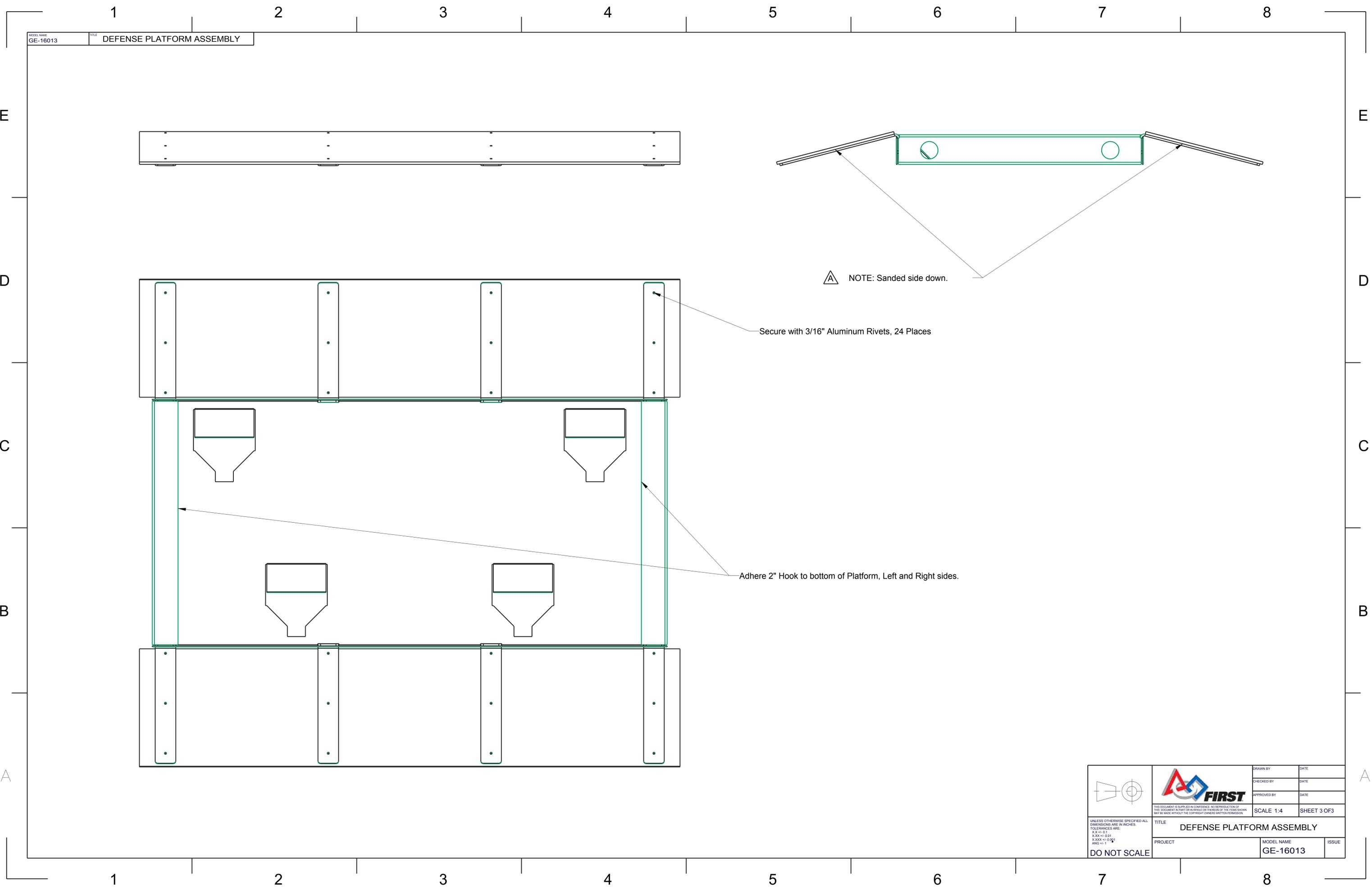
4

5

6

7

8



NOTE: Sanded side down.

Secure with 3/16" Aluminum Rivets, 24 Places

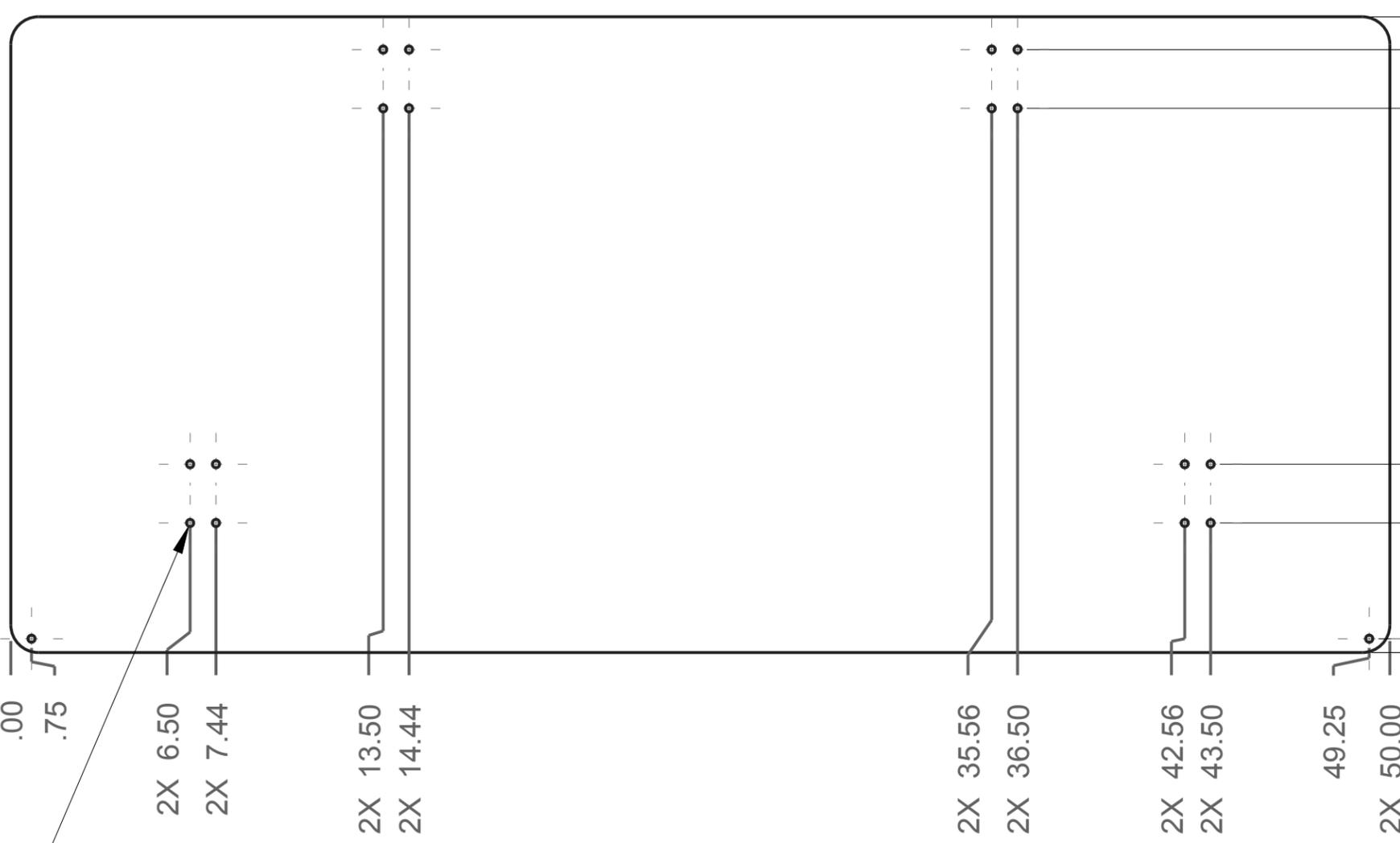
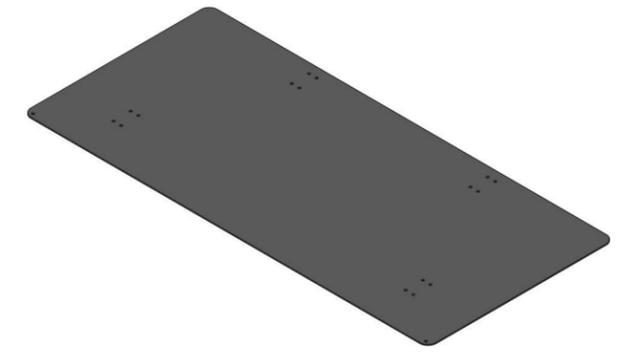
Adhere 2" Hook to bottom of Platform, Left and Right sides.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>		SCALE 1:4
TITLE: DEFENSE PLATFORM ASSEMBLY		SHEET 3 OF 3
PROJECT	MODEL NAME	ISSUE
	GE-16013	

DO NOT SCALE

MODEL NAME
GE-16016

TITLE
D BASE



Ø .26 Thru 18 Places

NOTE
Material: Steel Sheet, .125" Thick
Scale: 3:16
Qty: 1
Remove all burrs and sharp edges

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE D BASE		
PROJECT		MODEL NAME GE-16016
DO NOT SCALE		ISSUE

MODEL NAME
GE-16017

TITLE
BASE KEEP

1

2

3

4

D

D

C

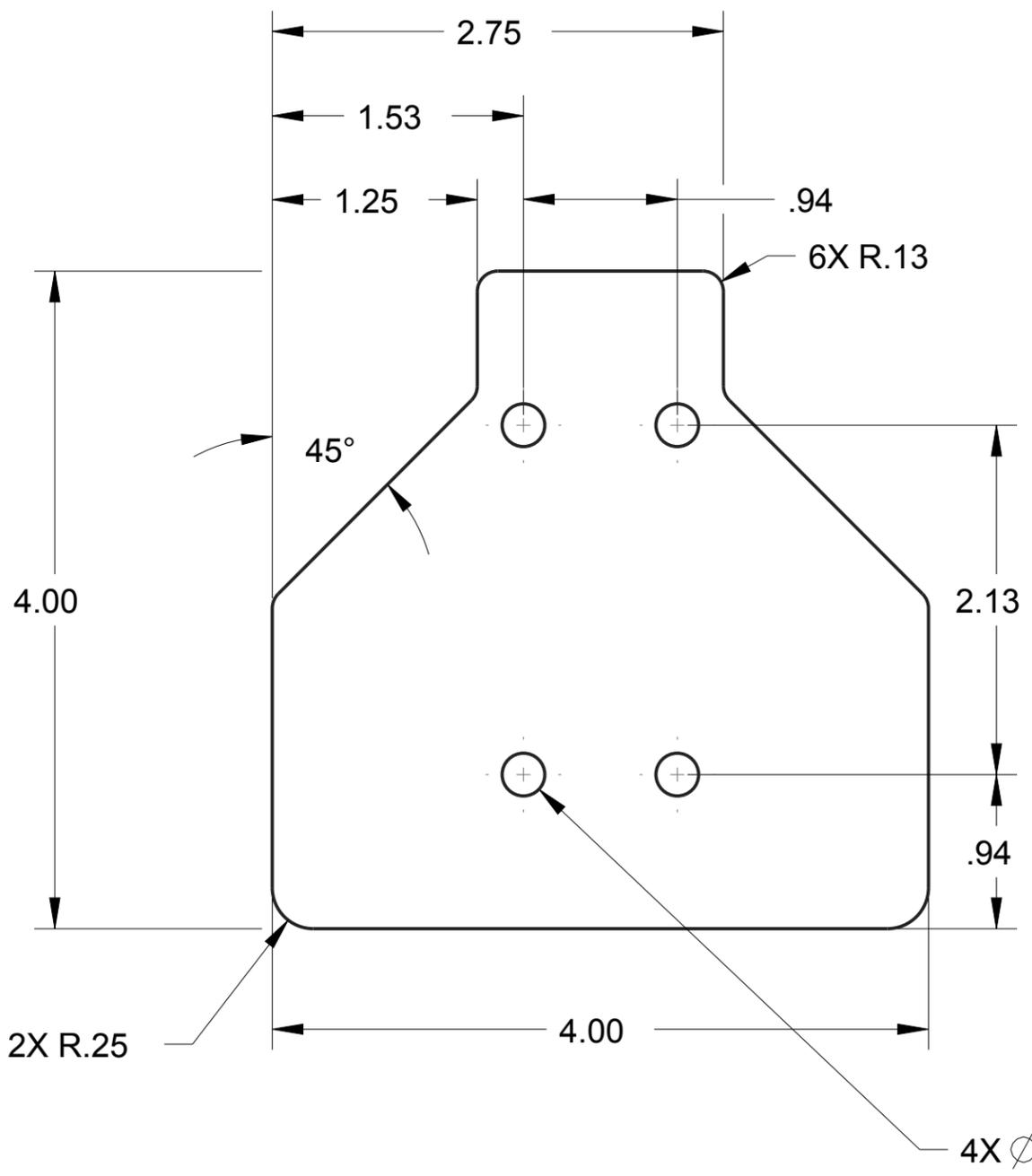
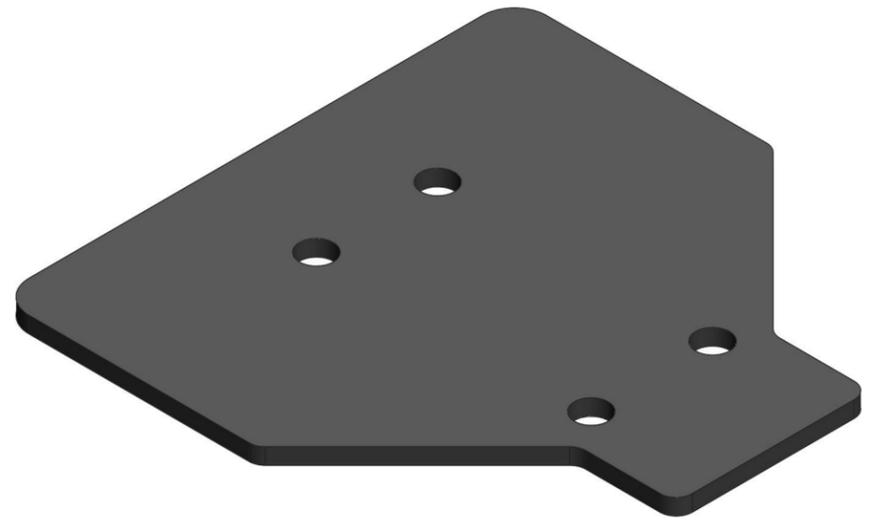
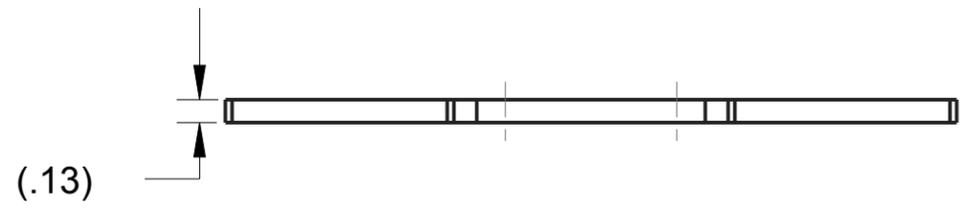
C

B

B

A

A



NOTE

Material: .125" thick steel sheet
Scale: 1:1

Remove all sharp edges and burrs

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE BASE KEEP	
DO NOT SCALE	PROJECT	MODEL NAME GE-16017
		ISSUE

1

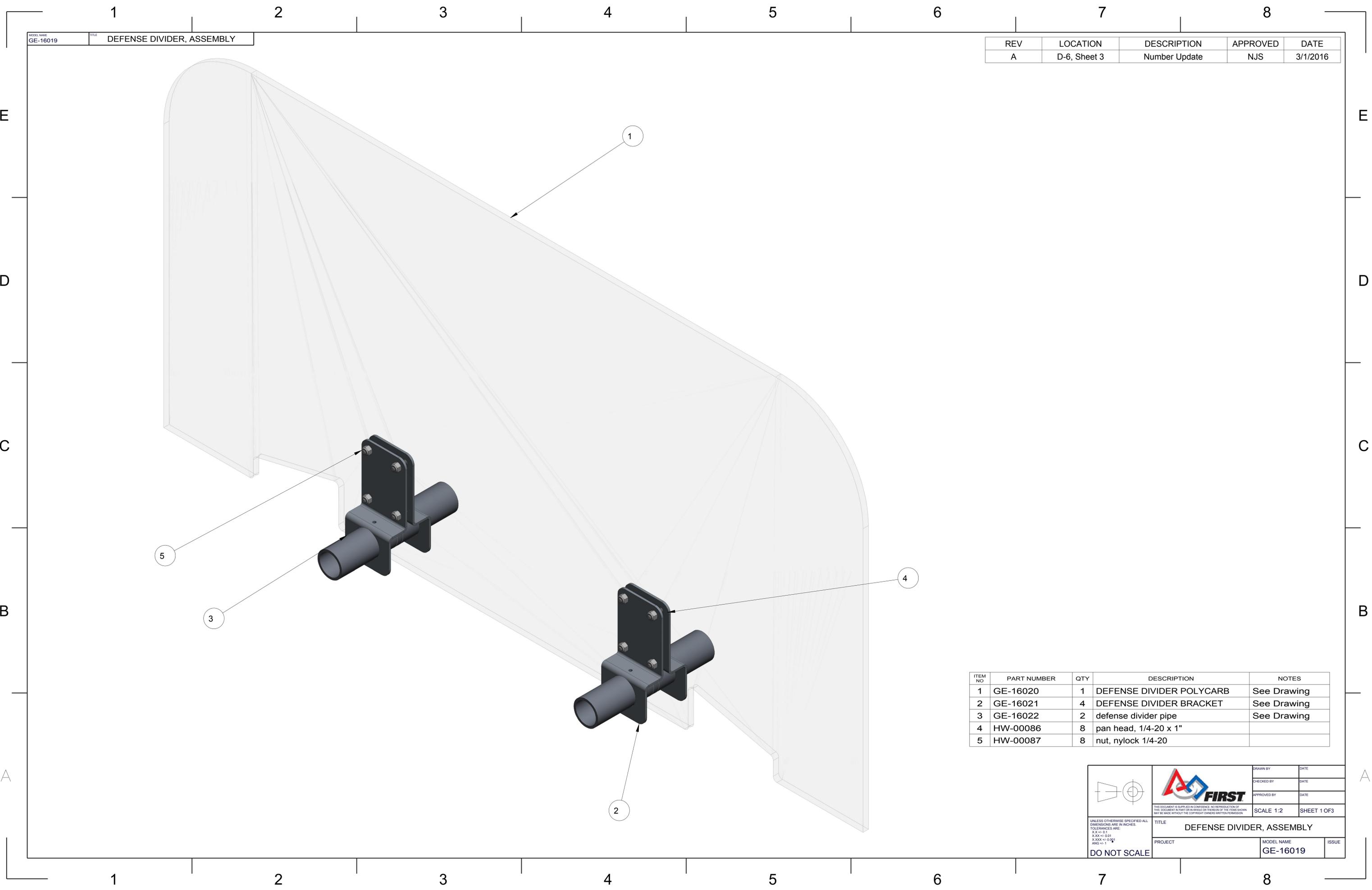
2

3

4

MODEL NAME: GE-16019
 TITLE: DEFENSE DIVIDER, ASSEMBLY

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	D-6, Sheet 3	Number Update	NJS	3/1/2016



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16020	1	DEFENSE DIVIDER POLYCARB	See Drawing
2	GE-16021	4	DEFENSE DIVIDER BRACKET	See Drawing
3	GE-16022	2	defense divider pipe	See Drawing
4	HW-00086	8	pan head, 1/4-20 x 1"	
5	HW-00087	8	nut, nylock 1/4-20	

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE: DEFENSE DIVIDER, ASSEMBLY		SCALE: 1:2
PROJECT:		ISSUE: SHEET 1 OF 3
MODEL NAME: GE-16019		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± 1

DO NOT SCALE

1

2

3

4

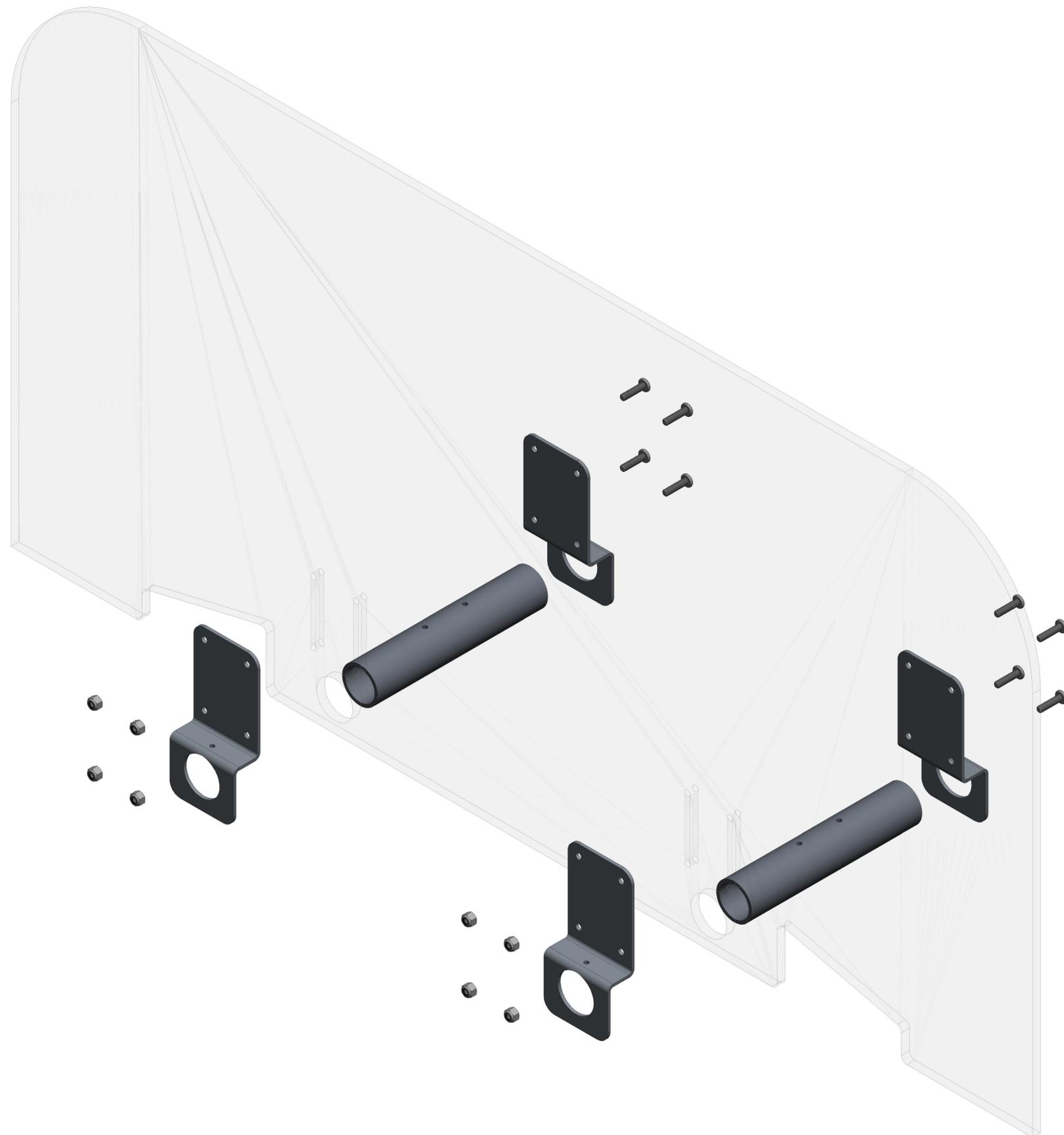
5

6

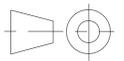
7

8

MODEL NAME: GE-16019 TITLE: DEFENSE DIVIDER, ASSEMBLY



SCALE 1:2

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
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<p>TITLE: DEFENSE DIVIDER, ASSEMBLY</p>		PROJECT	ISSUE
		MODEL NAME	GE-16019

1

2

3

4

5

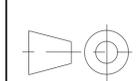
6

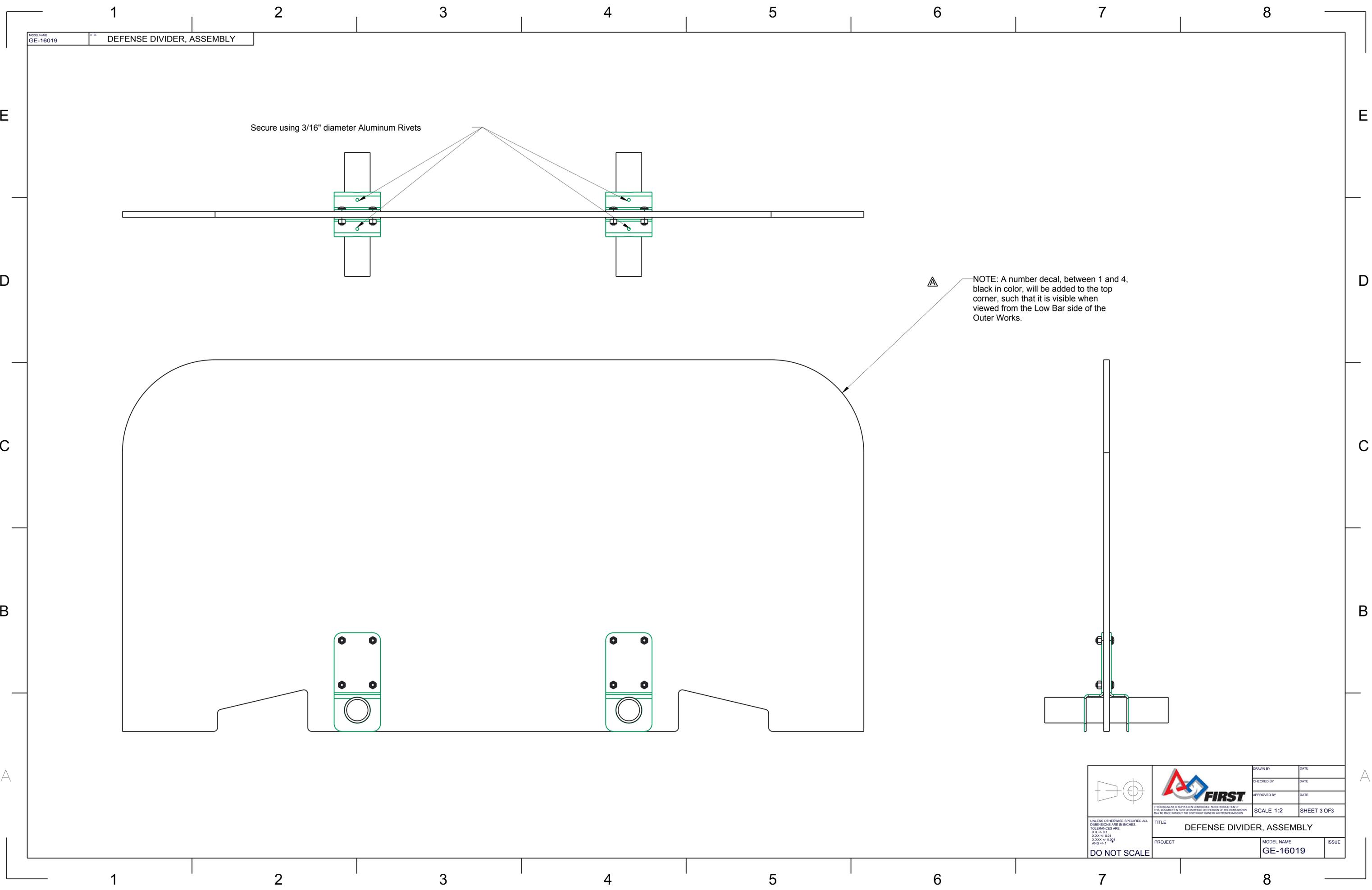
7

8

Secure using 3/16" diameter Aluminum Rivets

NOTE: A number decal, between 1 and 4, black in color, will be added to the top corner, such that it is visible when viewed from the Low Bar side of the Outer Works.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
	<p>TITLE: DEFENSE DIVIDER, ASSEMBLY</p> <p>PROJECT: MODEL NAME: GE-16019</p> <p>ISSUE: SHEET 3 OF 3</p>		



MODEL NAME
GE-16020

TITLE
DIVIDER

1

2

3

4

2X R6.00

24.00

8X \varnothing .26 Thru

4X 5.88
4X 3.00
2X 2.43
2X 1.38
2X 1.18
.00

(.38)

.00 6.16 12.00 14.21 15.21 16.21 31.79 32.79 33.79 36.00 41.84 48.00

2X \varnothing 1.69 Thru

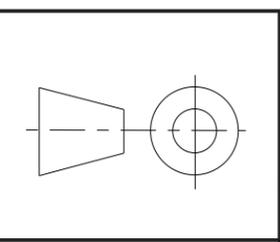
8X R.250

2X 2X

2X 2X

NOTE

Material: Clear Polycarbonate, .375" Thick
Scale: 3:16



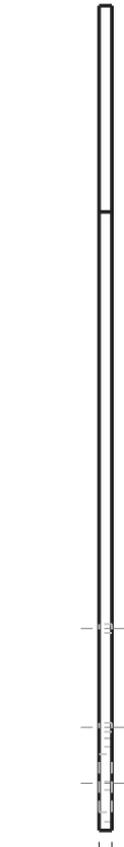
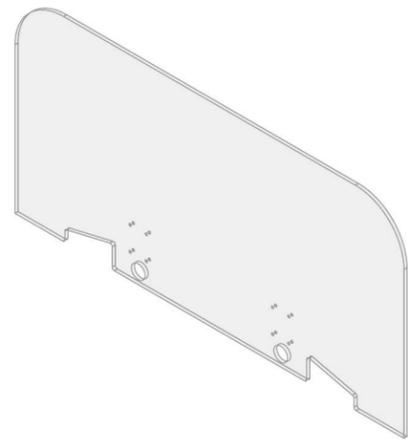
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 3:16	SHEET 1 OF 1

TITLE DIVIDER	
PROJECT	MODEL NAME GE-16020
ISSUE	



D

D

C

C

B

B

A

A

1

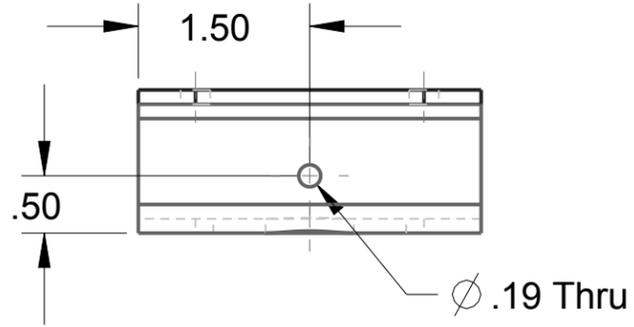
2

3

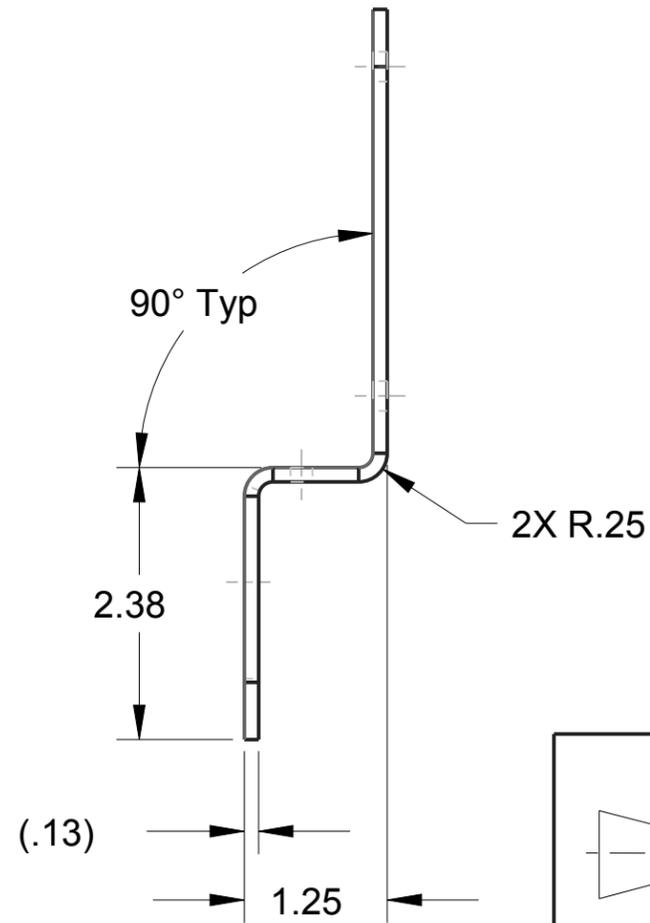
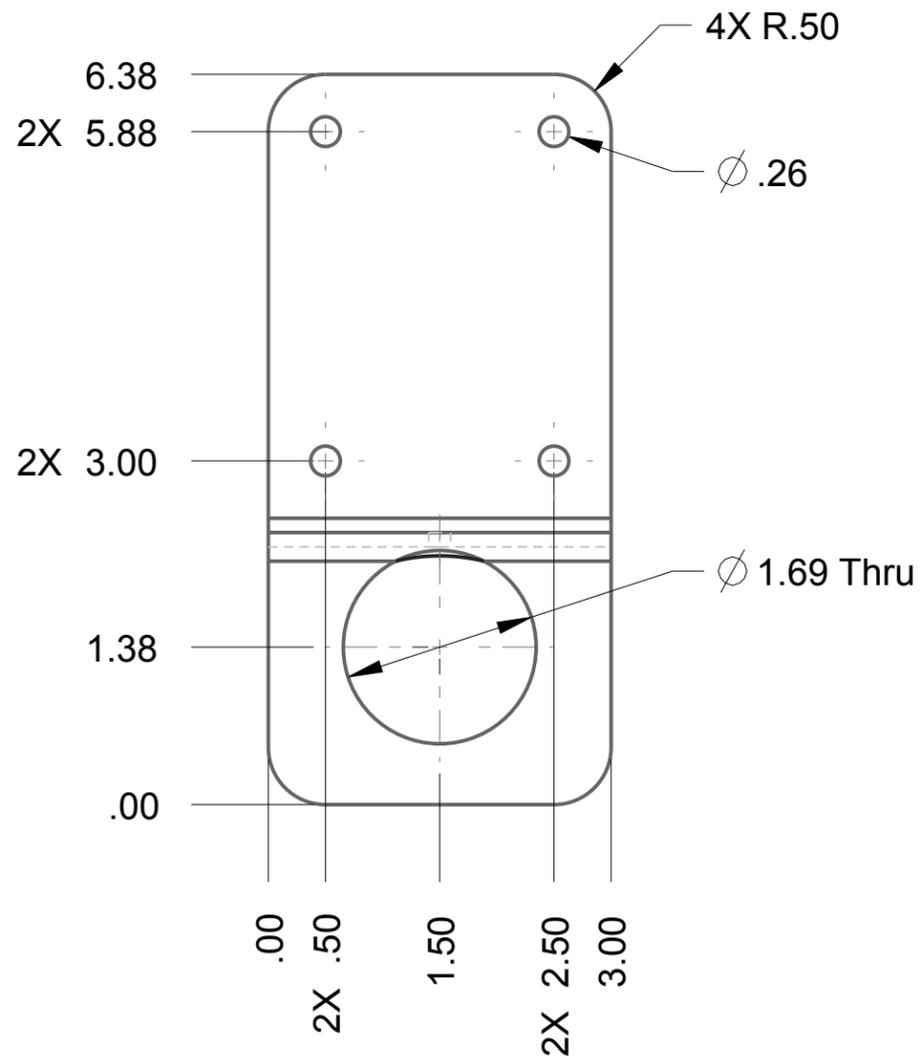
4

MODEL NAME
GE-16021

TITLE
DIVIDER BRACKET



SCALE 1:2



NOTE

Material: Steel Sheet, .125 Thick
Scale: 5:8

Remove all burrs and sharp edges

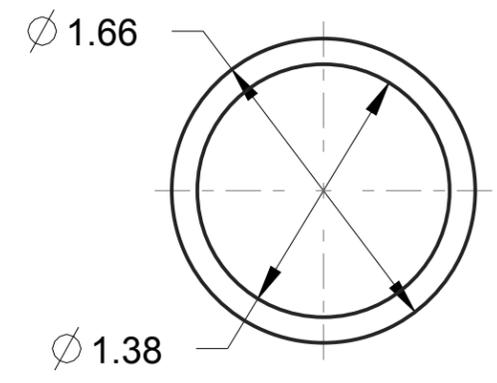
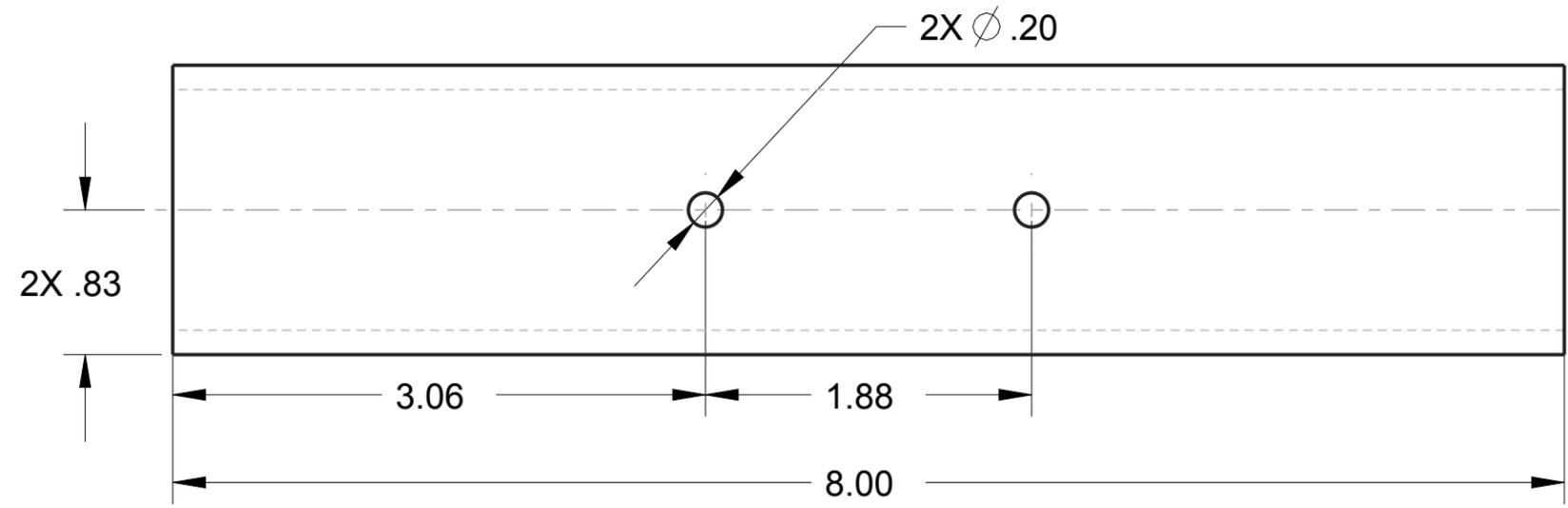
	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE DIVIDER BRACKET		
PROJECT	MODEL NAME GE-16021	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

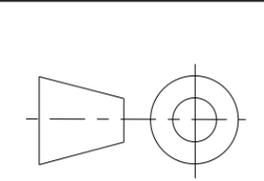
MODEL NAME
GE-16022

TITLE
DIVIDER PIPE



NOTE

Material: 1.25" Schedule 40 Pipe, 6061 Aluminum
Scale: 1:1



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



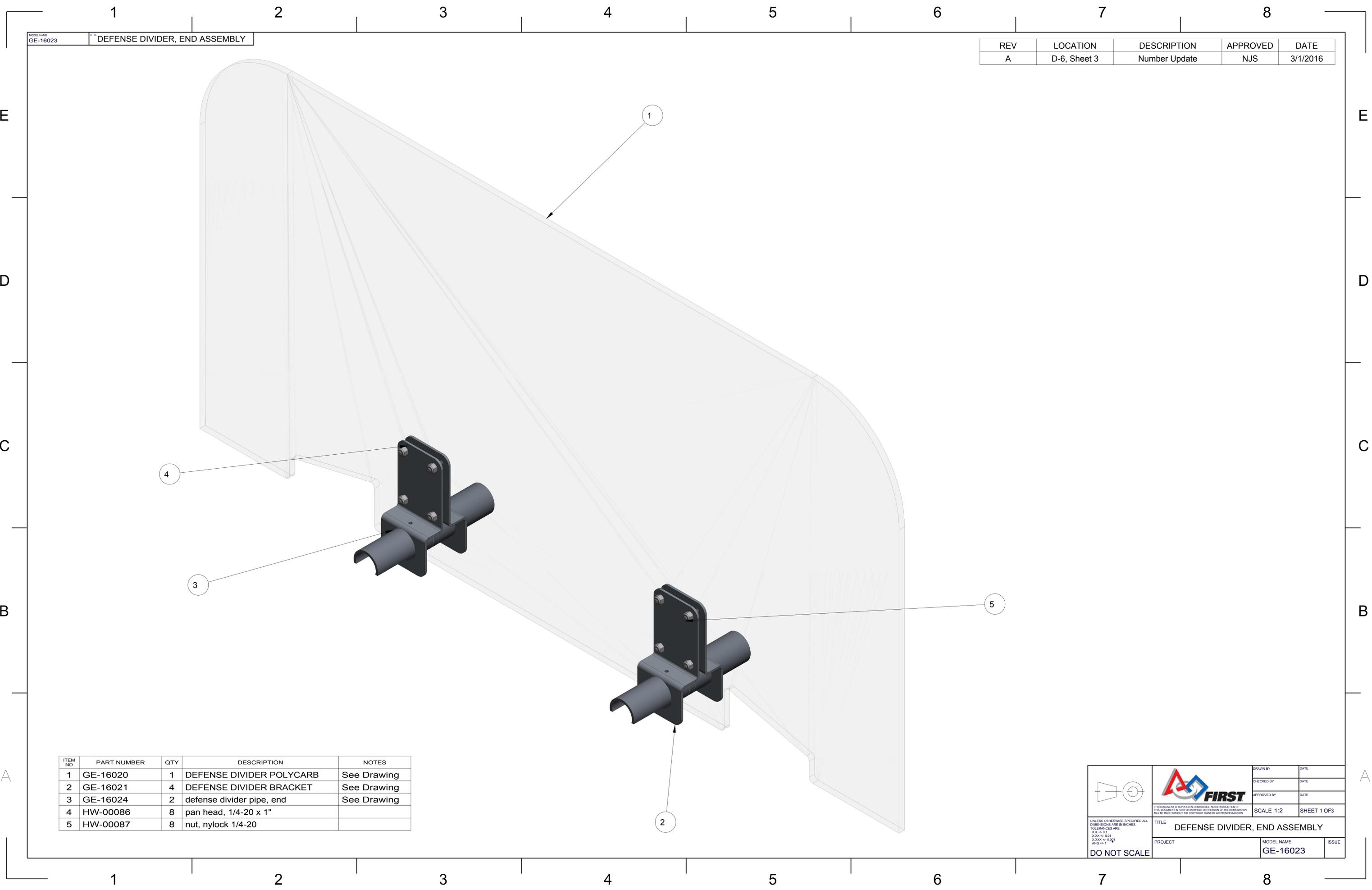
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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:1	SHEET 1 OF 1

TITLE
DIVIDER PIPE

PROJECT	MODEL NAME GE-16022	ISSUE
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REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	D-6, Sheet 3	Number Update	NJS	3/1/2016

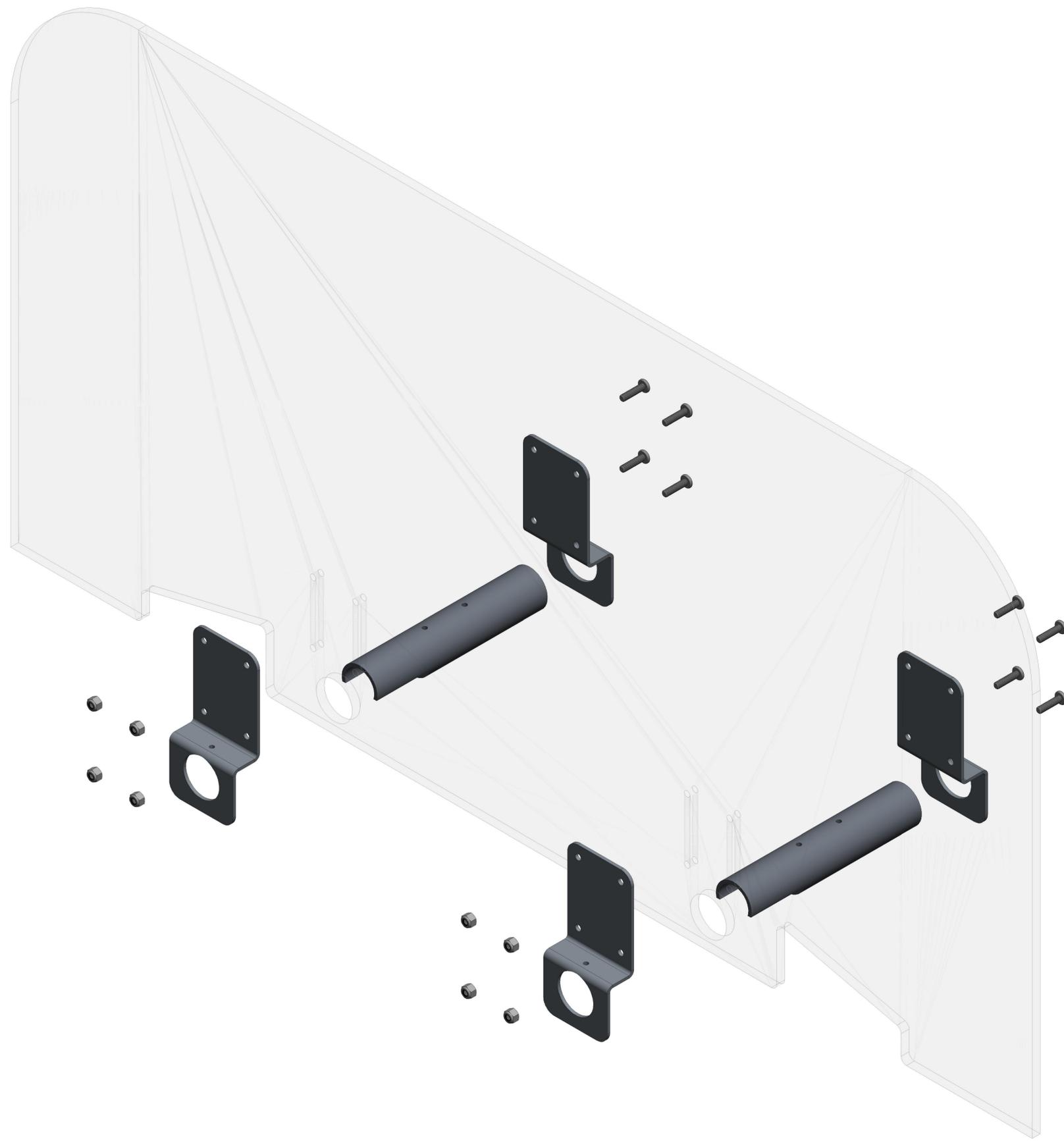


ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16020	1	DEFENSE DIVIDER POLYCARB	See Drawing
2	GE-16021	4	DEFENSE DIVIDER BRACKET	See Drawing
3	GE-16024	2	defense divider pipe, end	See Drawing
4	HW-00086	8	pan head, 1/4-20 x 1"	
5	HW-00087	8	nut, nylock 1/4-20	

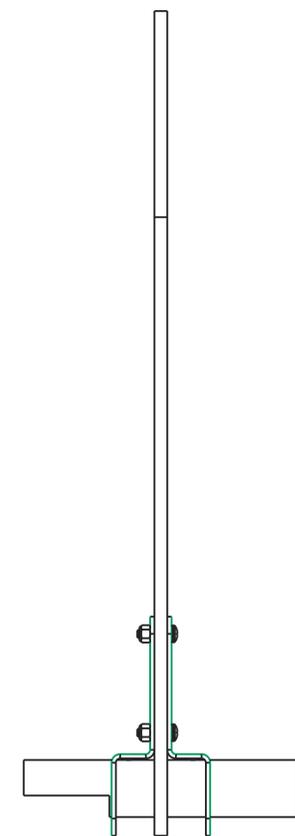
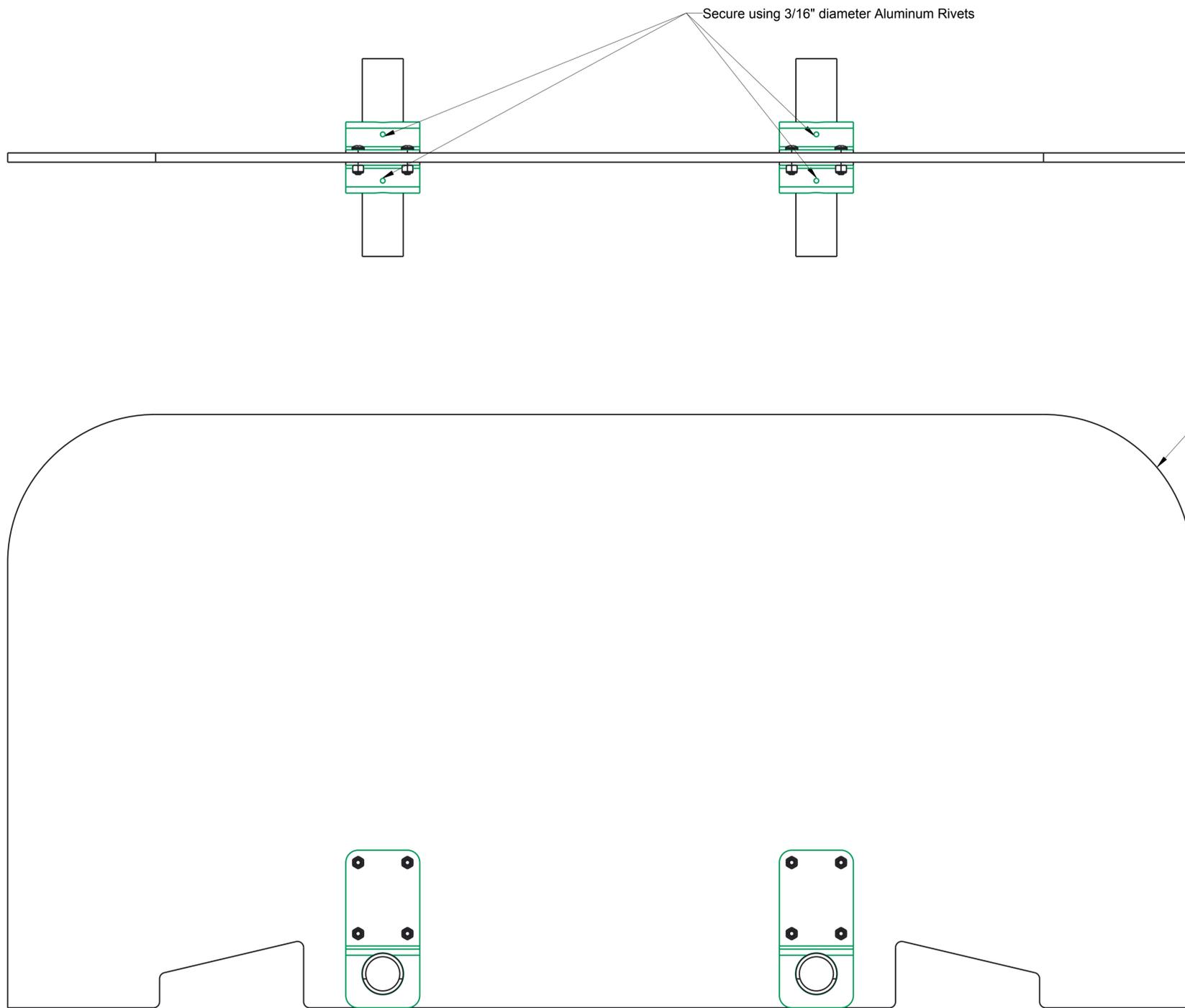
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TITLE: DEFENSE DIVIDER, END ASSEMBLY		SCALE: 1:2
PROJECT:		MODEL NAME: GE-16023
ISSUE:		SHEET 1 OF 3

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.XX +/- 0.1
 X.XXX +/- 0.01
 ANG +/- 1
 DO NOT SCALE

MODEL NAME: GE-16023
 TITLE: DEFENSE DIVIDER, END ASSEMBLY



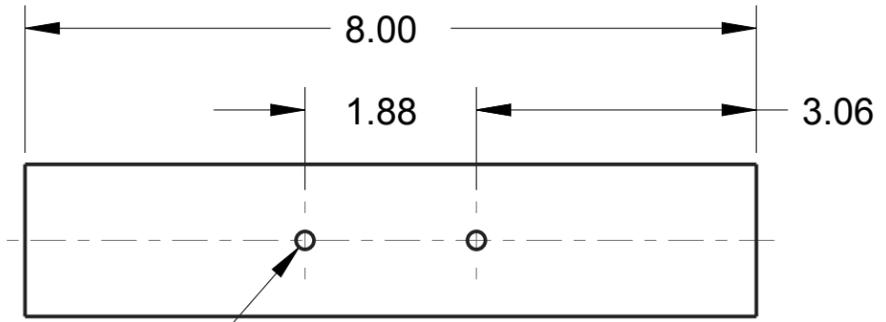
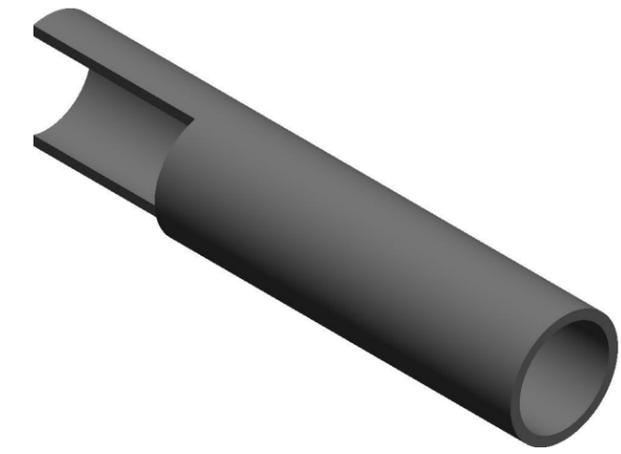
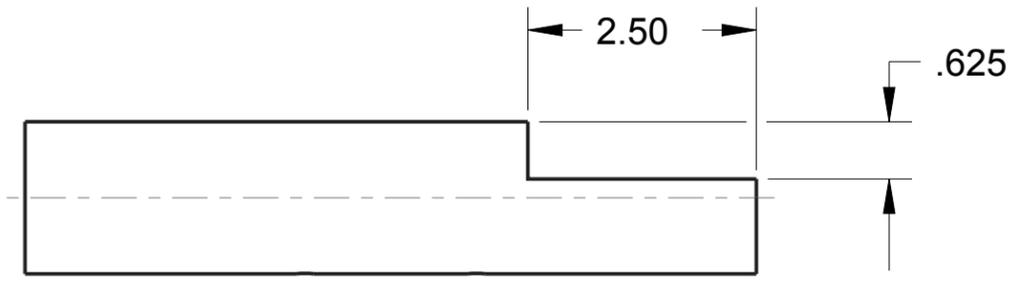
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TITLE DEFENSE DIVIDER, END ASSEMBLY		MODEL NAME	ISSUE
PROJECT		GE-16023	
DO NOT SCALE			



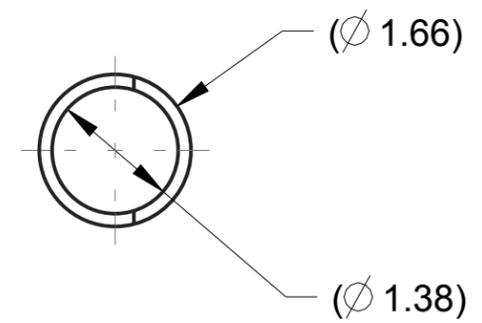
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1 DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		SCALE 3:8 SHEET 3 OF 3	
TITLE DEFENSE DIVIDER, END ASSEMBLY		MODEL NAME	ISSUE
PROJECT		GE-16023	

MODEL NAME
GE-16024

TITLE
DIVIDER PIPE, END



2X ϕ .196
Thru One Wall

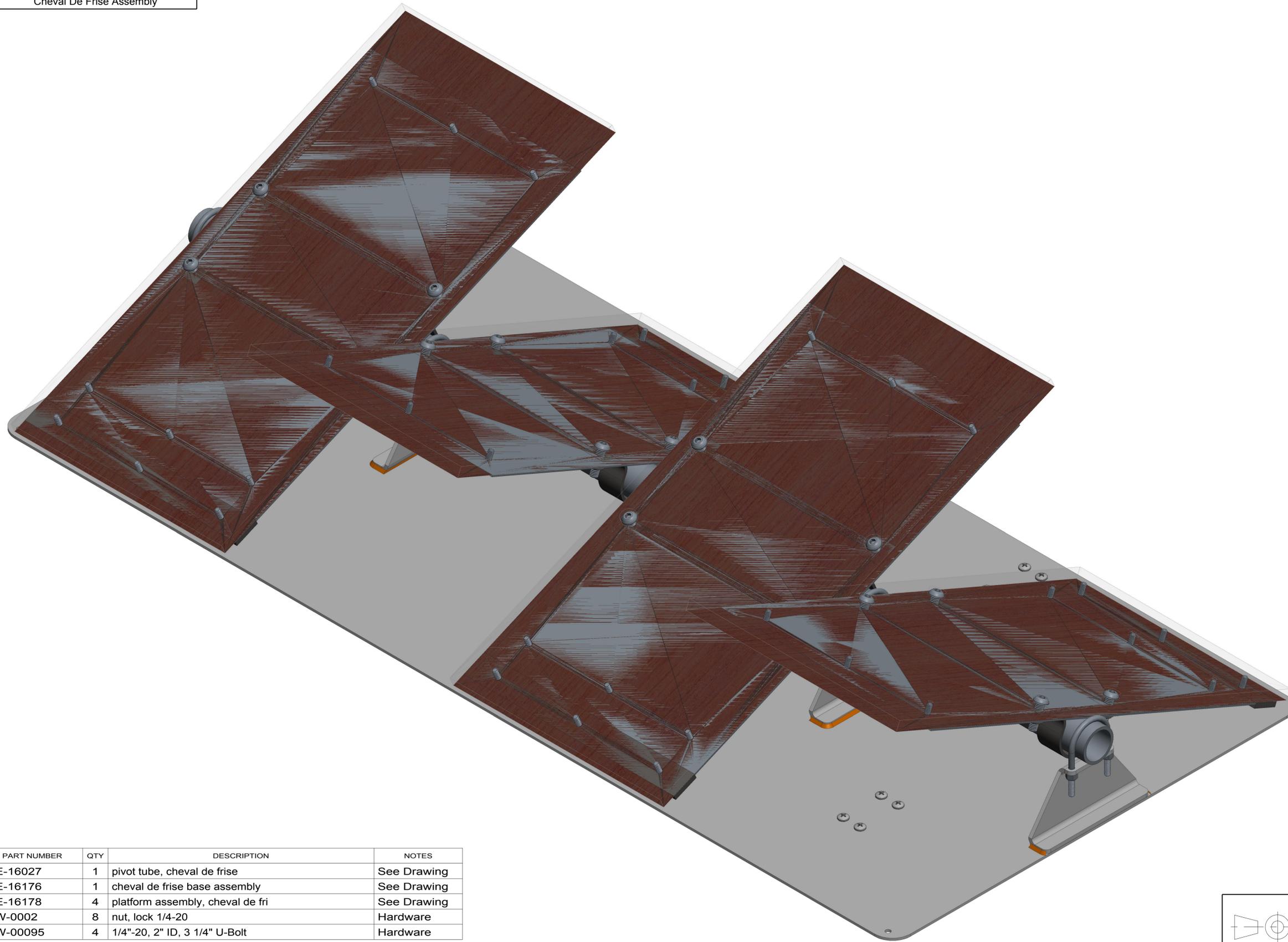


Notes:

- 1. Material: 1-1/4" Schedule 40 Pipe, 6061 Aluminum
- 2. Remove all burrs and sharp edges.

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE DIVIDER PIPE, END			
PROJECT		MODEL NAME GE-16024	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°
DO NOT SCALE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16027	1	pivot tube, cheval de frise	See Drawing
2	GE-16176	1	cheval de frise base assembly	See Drawing
3	GE-16178	4	platform assembly, cheval de fri	See Drawing
4	HW-0002	8	nut, lock 1/4-20	Hardware
5	HW-00095	4	1/4"-20, 2" ID, 3 1/4" U-Bolt	Hardware

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	<p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNER'S WRITTEN PERMISSION.</p>	<p>DRAWN BY: _____ DATE: _____</p> <p>CHECKED BY: _____ DATE: _____</p> <p>APPROVED BY: _____ DATE: _____</p>
	<p>SCALE 1:8</p> <p>SHEET 1 OF 4</p>	<p>TITLE: Cheval De Frise Assembly</p>
	<p>PROJECT: _____</p>	<p>MODEL NAME: GE-16025</p>
	<p>ISSUE: _____</p>	<p>SCALE 1:8</p>

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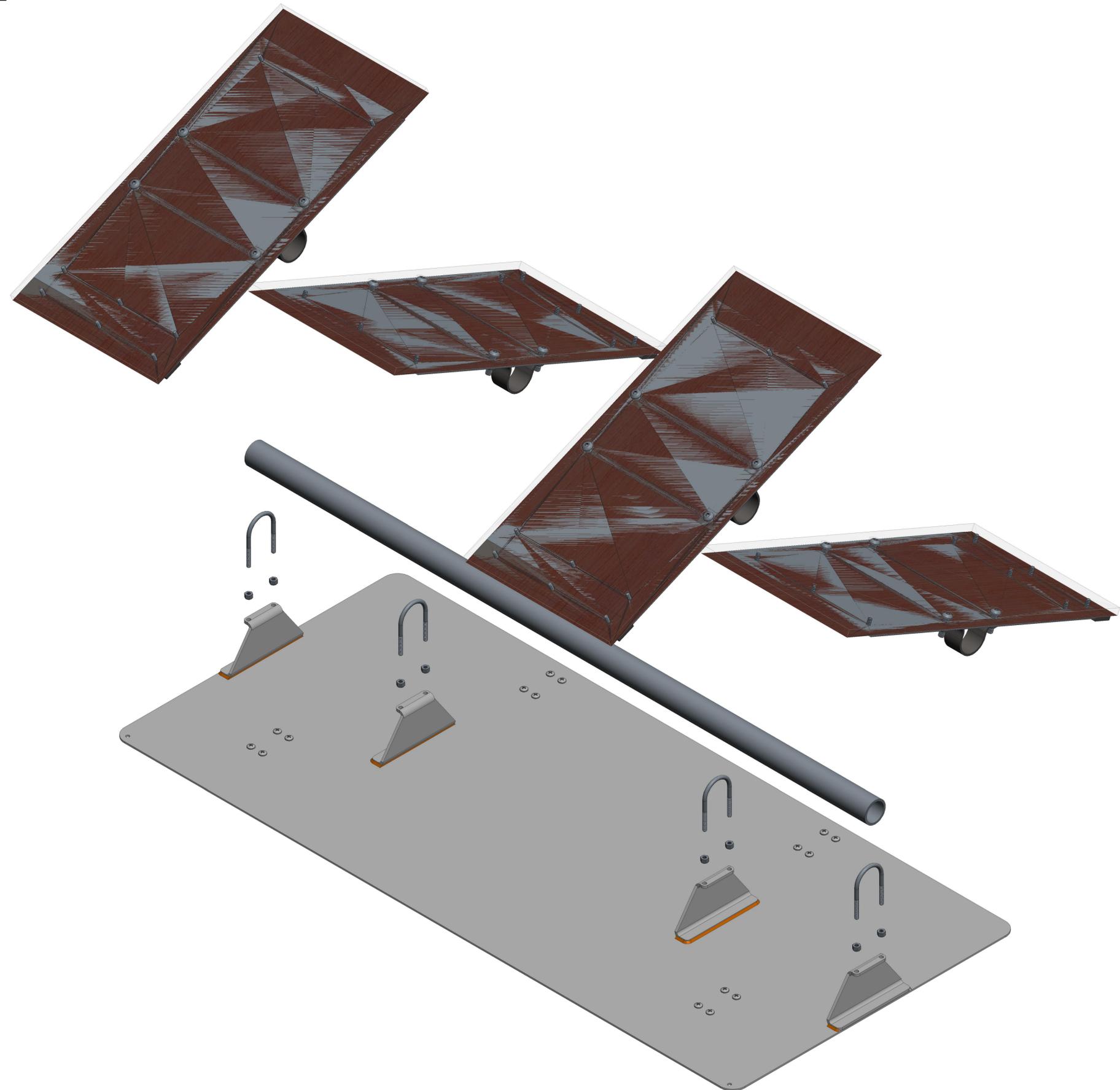
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MODEL NAME: GE-16025 TITLE: Cheval De Frise Assembly



 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	<p>TITLE: Cheval De Frise Assembly</p>		
	<p>PROJECT</p>	<p>MODEL NAME: GE-16025</p>	<p>ISSUE</p>
	<p>SCALE 1:8</p>		<p>SHEET 2 OF 4</p>
	<p>DRAWN BY</p>	<p>DATE</p>	<p>CHECKED BY</p>
<p>APPROVED BY</p>		<p>DATE</p>	<p>DATE</p>

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MODEL NAME: GE-16025
 TITLE: Cheval De Frise Assembly

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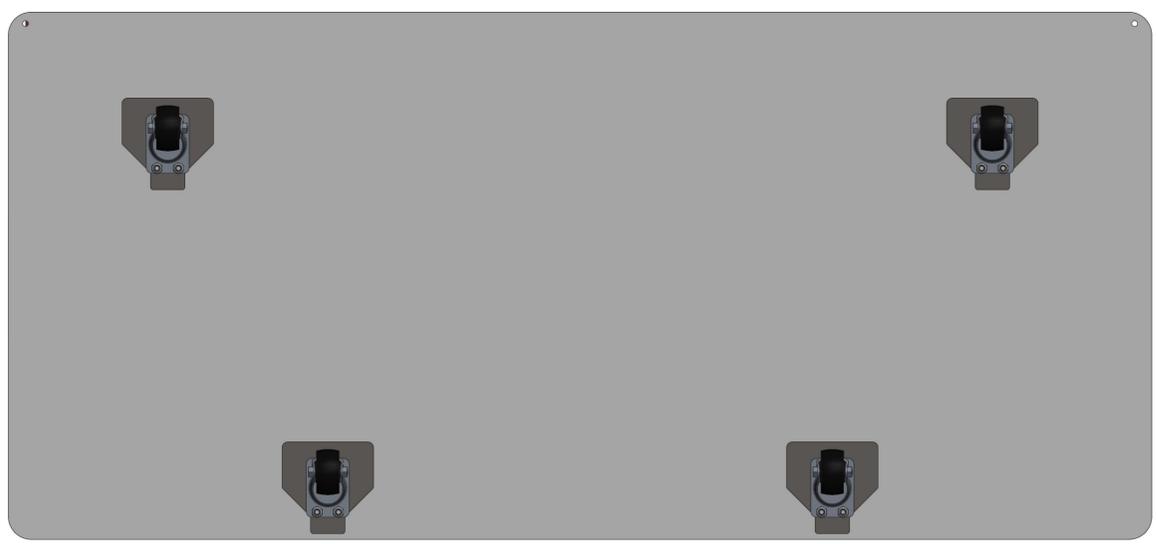
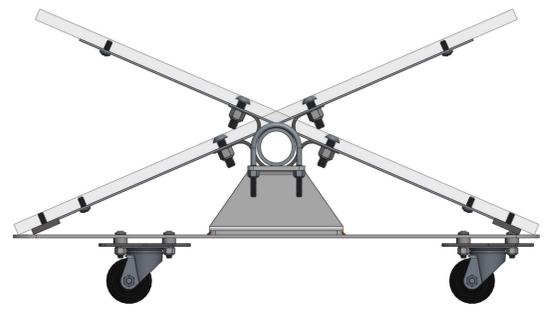
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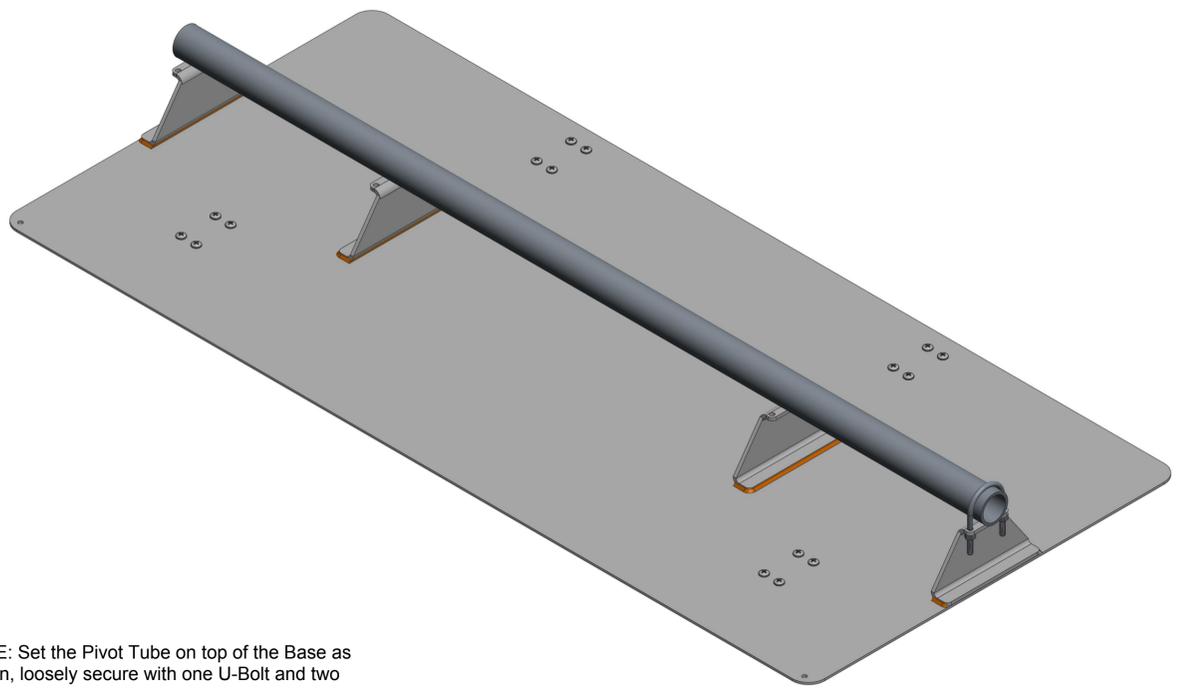
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			CHECKED BY	DATE
			APPROVED BY	DATE
	TITLE Cheval De Frise Assembly		SCALE 1:8	SHEET 3 OF 4
PROJECT			MODEL NAME	ISSUE
			GE-16025	

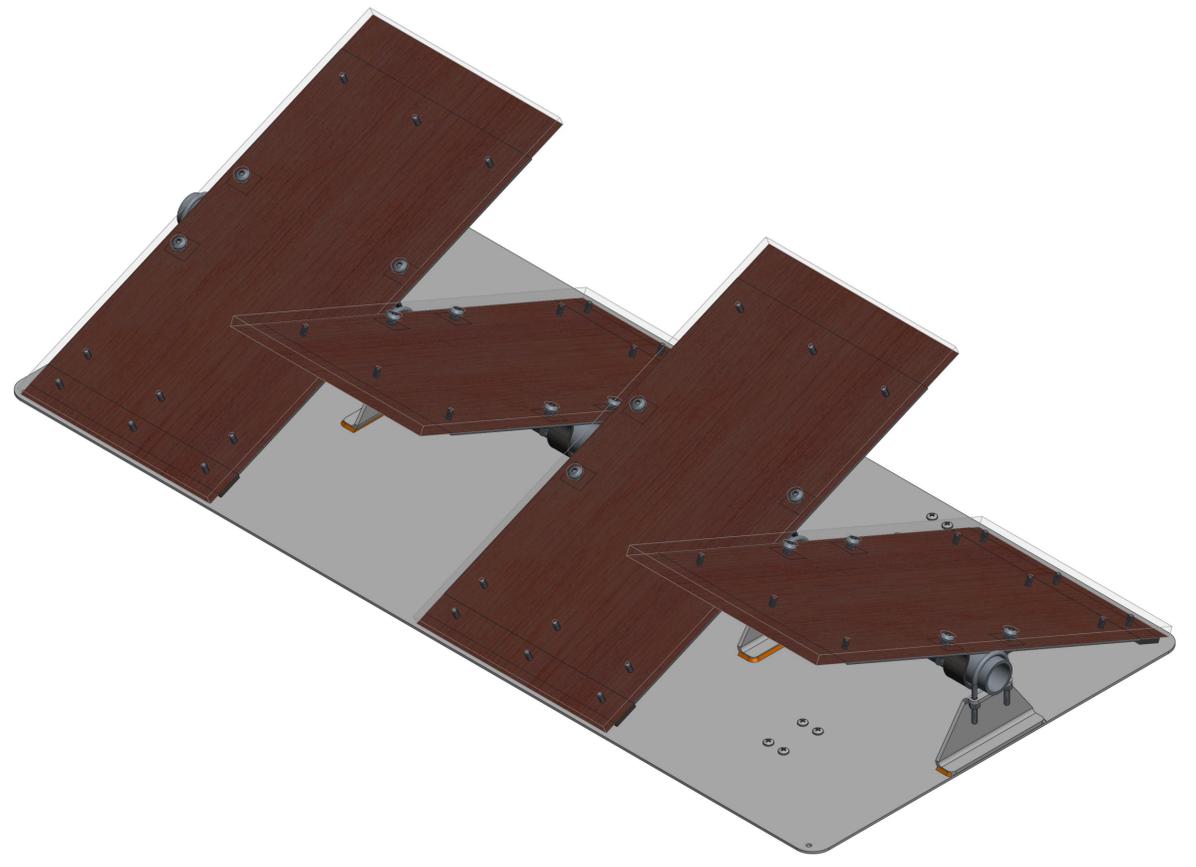
1 2 3 4 5 6 7 8



NOTE: Set the Pivot Tube on top of the Base as shown, loosely secure with one U-Bolt and two nuts.



NOTE: Slide four (4) platforms onto the Pivot Tube making sure to alternate which side the ballast is on (shown).

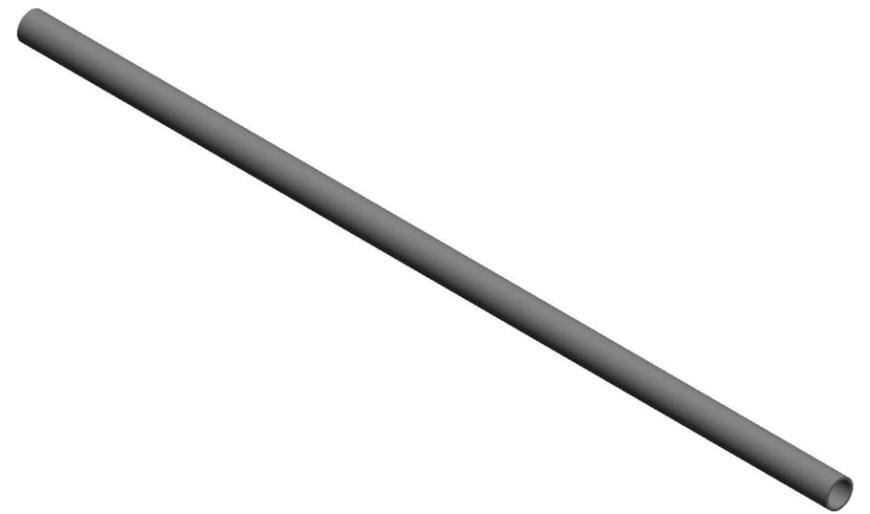


NOTE: Secure the rest of the Pivot Tube using the remainder of the U-Bolts and Nylock Nuts. Be sure the Platforms can teeter freely.

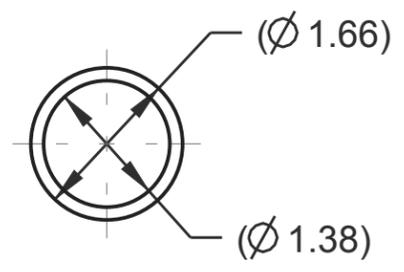
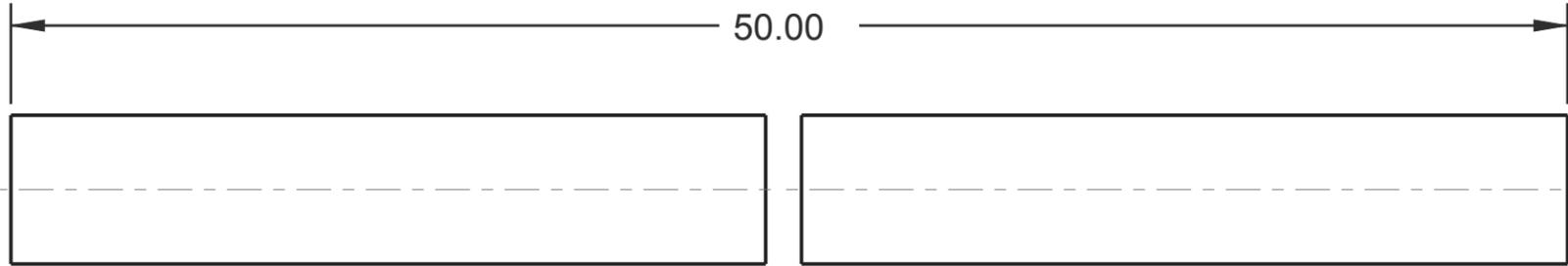
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TITLE Cheval De Frise Assembly		SCALE 1:8
PROJECT		ISSUE
MODEL NAME GE-16025		
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1</small>		
DO NOT SCALE		

MODEL NAME
GE-16027

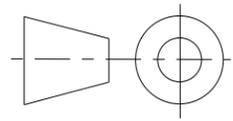
TITLE
PIVOT TUB



SCALE 1:8



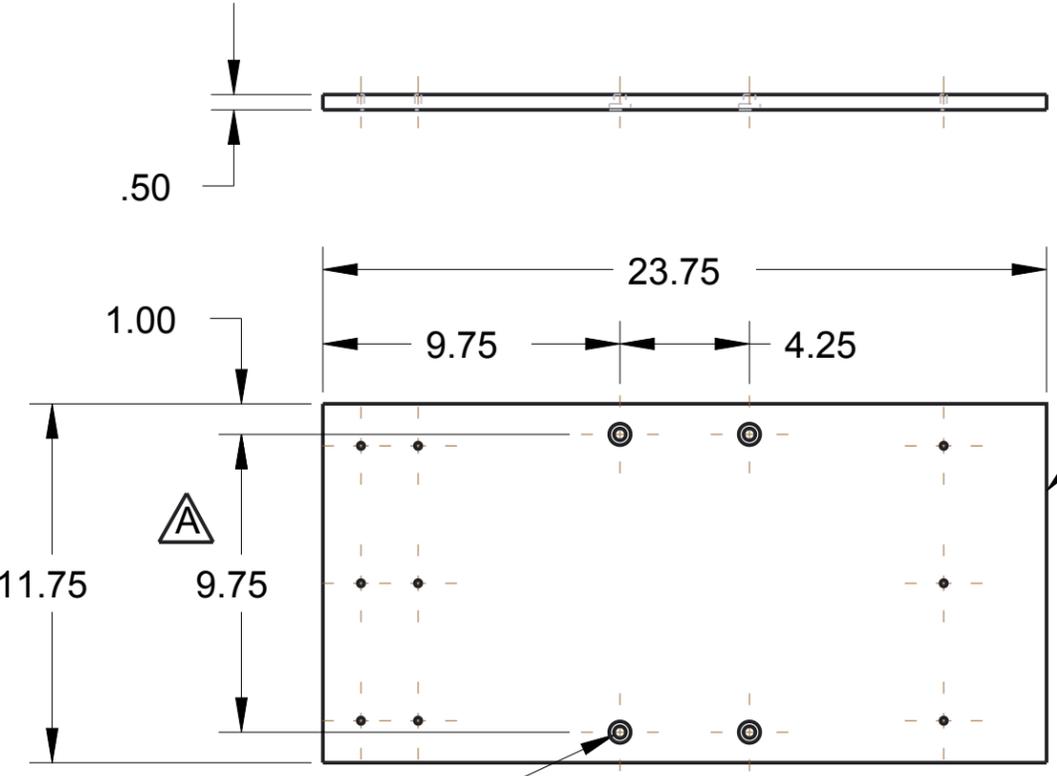
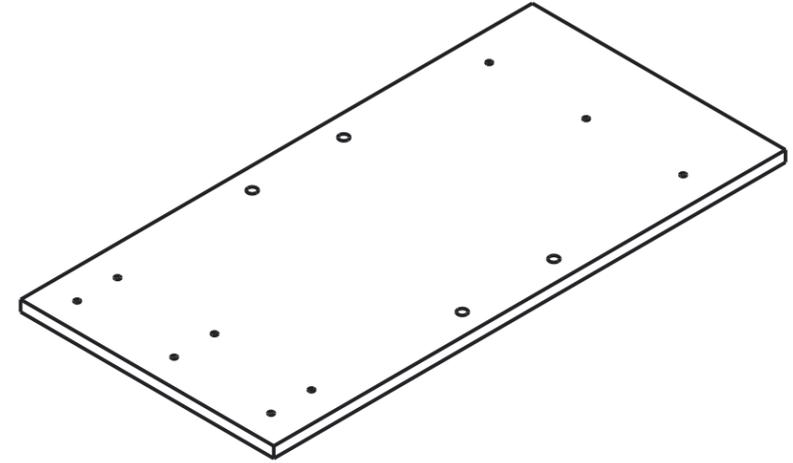
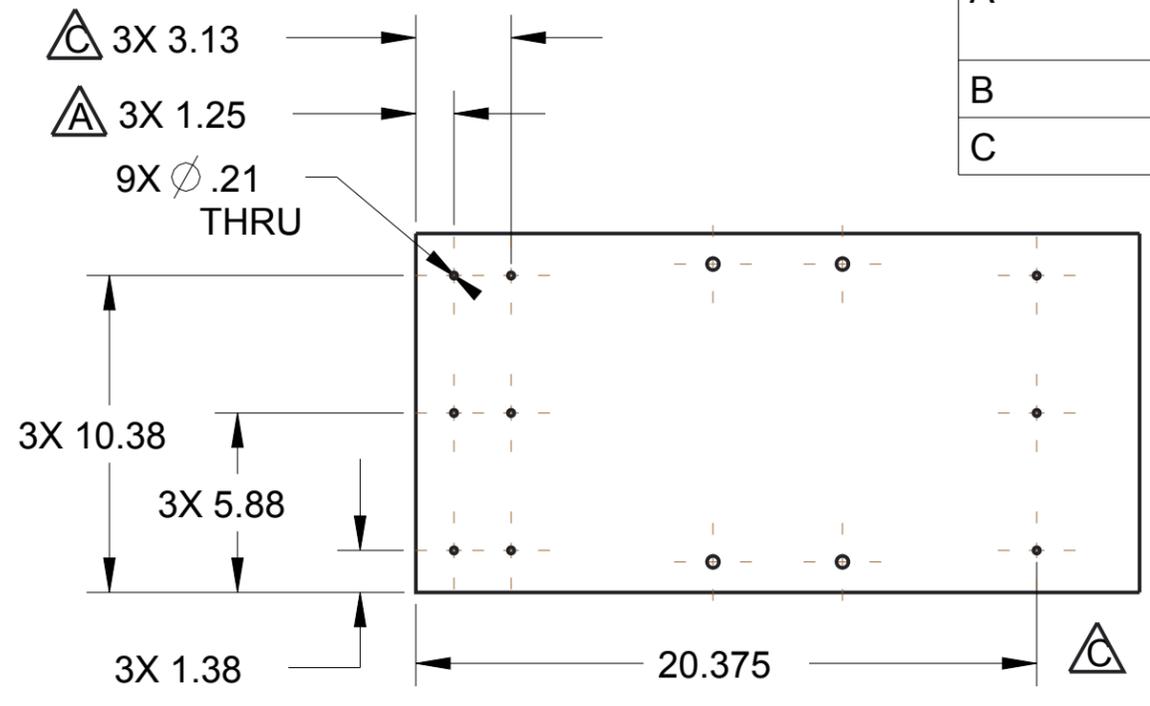
- NOTES:
- MATERIAL: 1-1/4" SCHEDULE 40 PIPE, 6061-T6 ALUMINUM
 - REMOVE ALL BURRS AND SHARP EDGES

		DRAWN BY	DATE
		CHECKED BY	DATE
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		SCALE 1:2	SHEET 1 OF 1
		TITLE PIVOT TUBE	
DO NOT SCALE	PROJECT	MODEL NAME GE-16027	ISSUE

MODEL NAME
GE-16028

TITLE
Platform, Cheval de Frise

REV	ZONE	DESCRIPTION	INITIAL	DATE
A	A-1, D-1	9.75 WAS 10.00, REMOVED 3 POCKETS, ADDED .21 HOLES (QTY3)	DAF	12/16/15
B	A-1	Changed C'sink to C'bore	DAF	2/26/16
C	C-2, D-1	ADDED MOUNTING HOLES, .21 (QTY 6)	NJS	4/4/2016



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4 PLACES

Print to be seen from this side

NOTE

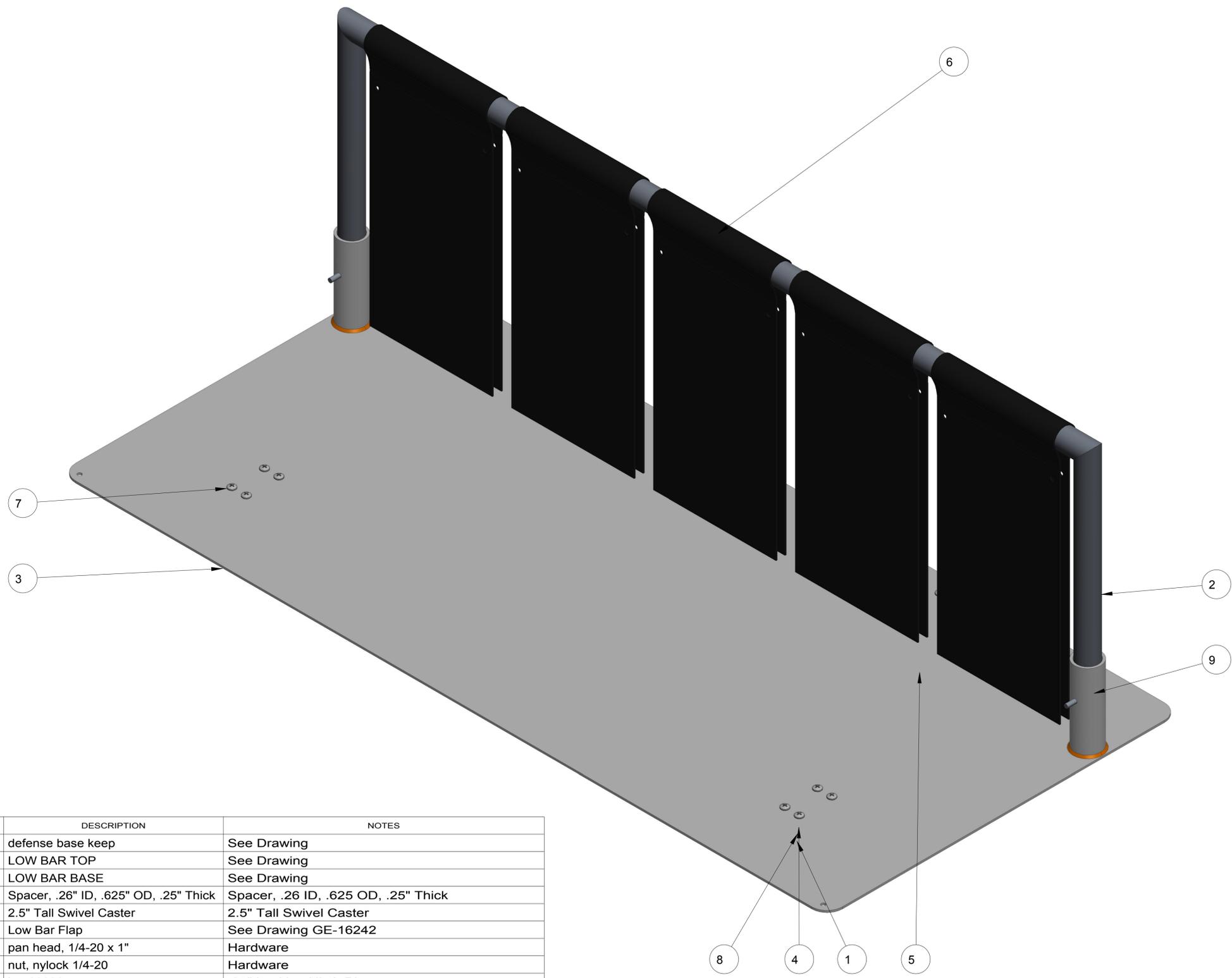
Material: Clear Polycarb, .5" Thick
Scale: 1:6
Finish: Print to look like wood

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Platform, Cheval de Frise		
PROJECT	MODEL NAME GE-16028	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1 SHEET 3 - D-4, E-4	Added GE-16242 (Qty. 5) ASSEMBLY NOTES	NJS	4/4/2016



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16030	1	LOW BAR TOP	See Drawing
3	GE-16031	1	LOW BAR BASE	See Drawing
4	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Spacer, .26" ID, .625" OD, .25" Thick
5	GE-16151	4	2.5" Tall Swivel Caster	2.5" Tall Swivel Caster
6	GE-16242_01	5	Low Bar Flap	See Drawing GE-16242
7	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
8	HW-00087	16	nut, nylock 1/4-20	Hardware
9	HW-00093	2	hw-00093.prt	.25" Locking Hitch Pin

	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	SCALE 3:8 SHEET 1 OF 3
	TITLE: Low Bar Assembly
	PROJECT: _____ MODEL NAME: GE-16029 ISSUE: _____
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- .1 DO NOT SCALE	

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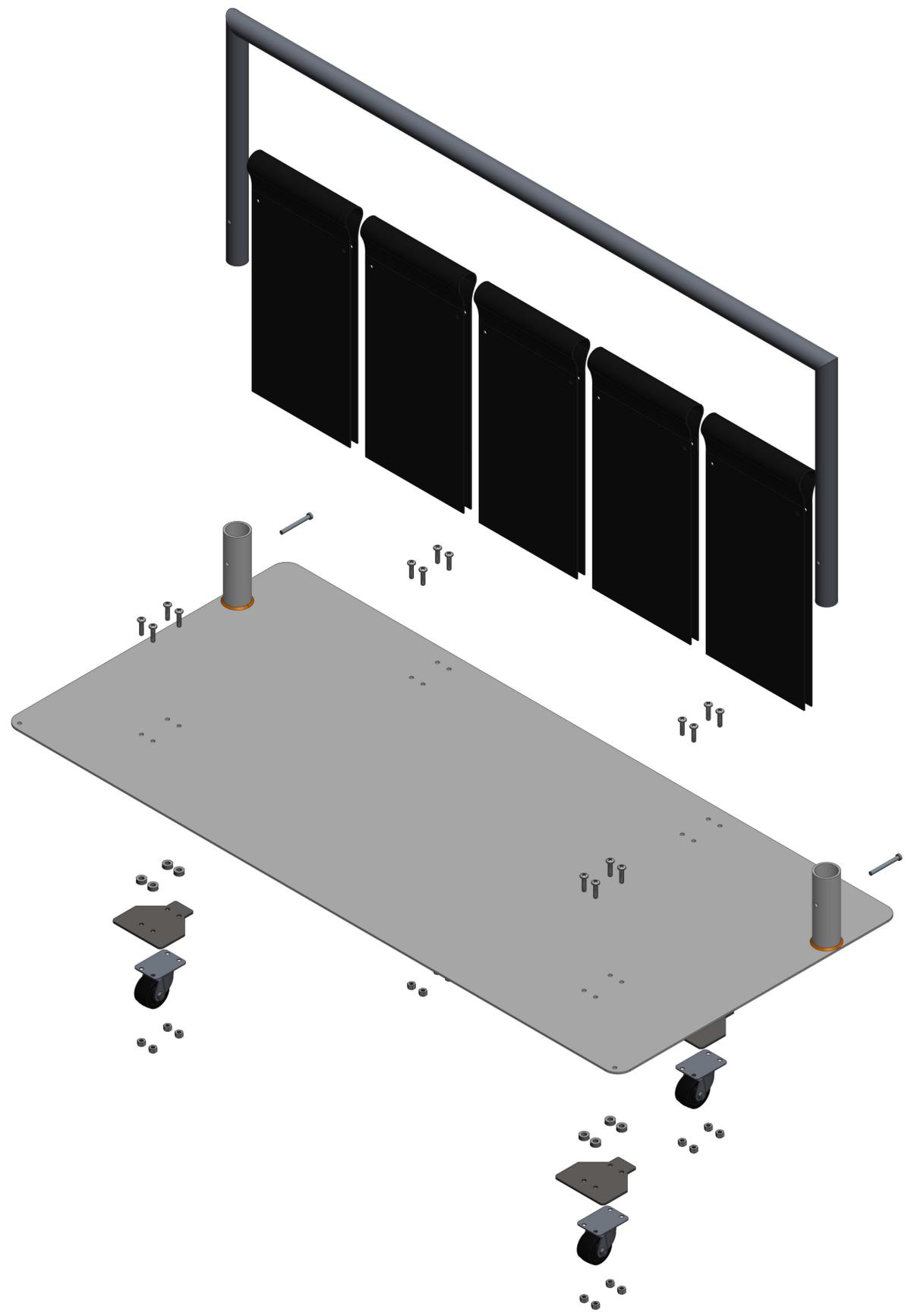
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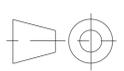
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MODEL NAME: GE-16029 TITLE: Low Bar Assembly



SCALE 1:4

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	<small>TITLE</small> Low Bar Assembly			<small>ISSUE</small>
	<small>PROJECT</small>		<small>MODEL NAME</small> GE-16029	

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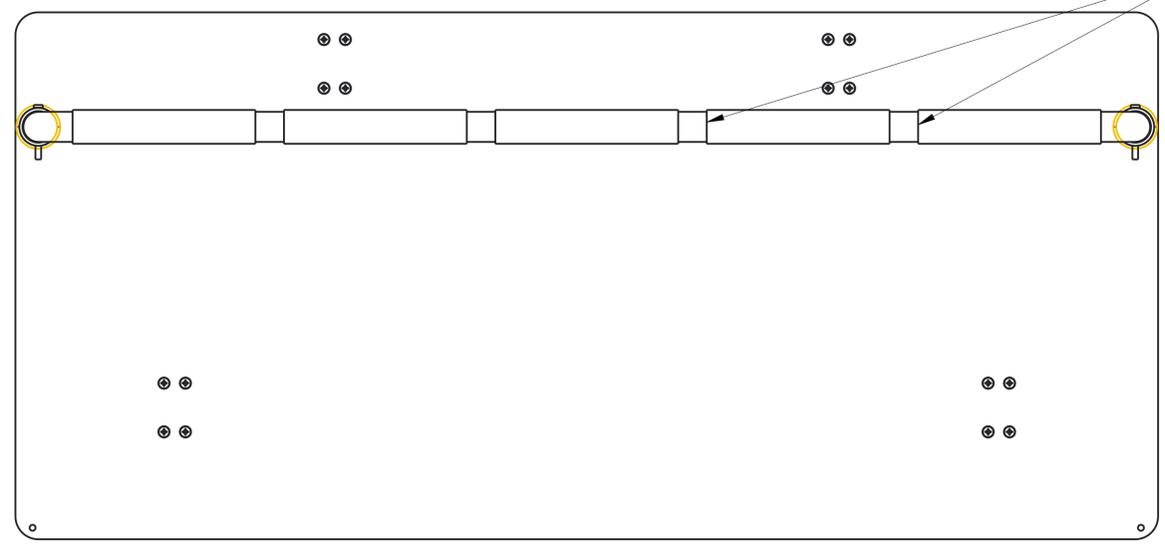
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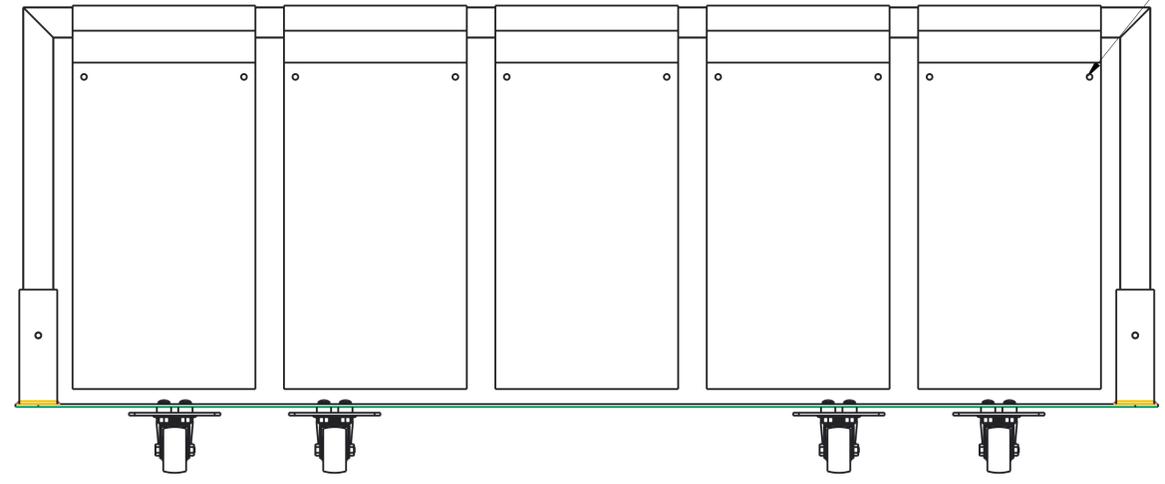
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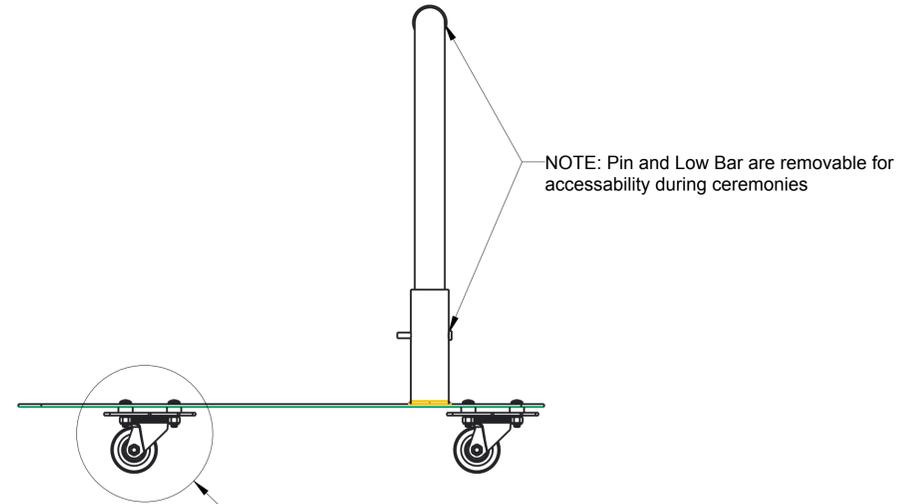
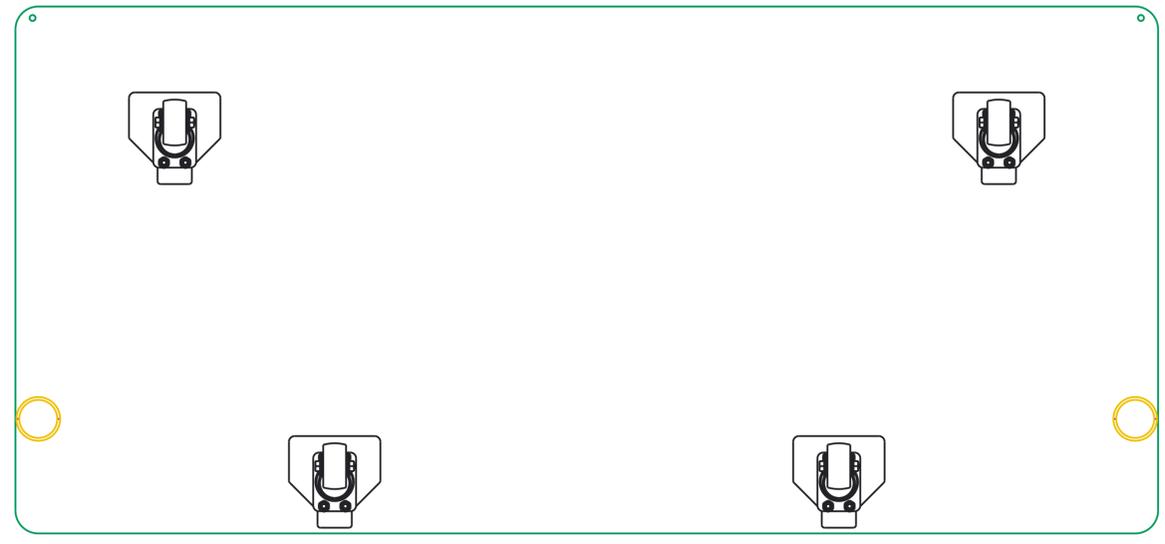
MODEL NAME: GE-16029 TITLE: Low Bar Assembly



NOTE: Secure cable ties between each flap to help keep them in place.

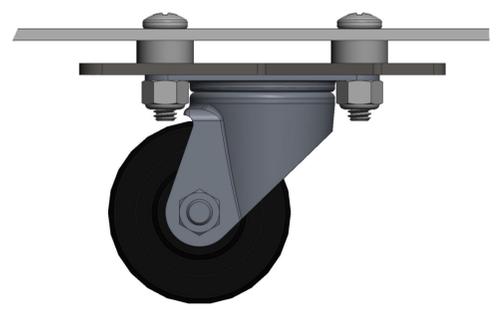


NOTE: Cable tie through the holes on each side of the flap to help secure the flaps to the Low Bar - 10 Places



NOTE: Pin and Low Bar are removable for accessibility during ceremonies

SEE DETAIL A



DETAIL A SCALE 1:1

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:4	SHEET 3 OF 3
TITLE: Low Bar Assembly		
PROJECT		ISSUE
MODEL NAME: GE-16029		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX +/- 0.1
 XXXX +/- 0.01
 XXXX +/- 0.001
 ANG +/- 1
 DO NOT SCALE

1 2 3 4 5 6 7 8

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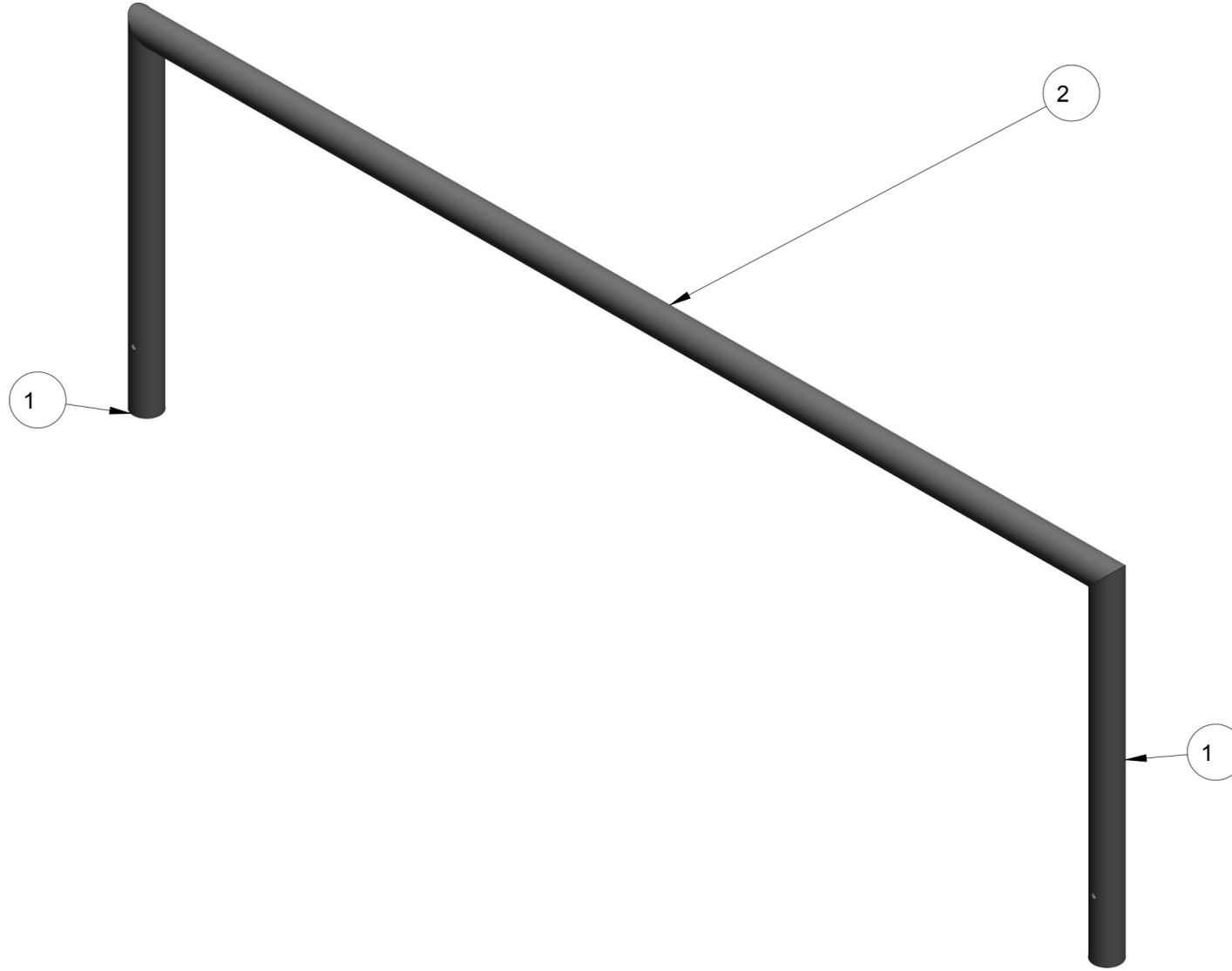
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SCALE 1:4

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16030-01	2	VERTICAL	Aluminum
2	GE-16030-02	1	HORIZONTAL	Aluminum

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	CHECKED BY	DATE
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	SCALE 1:4	SHEET 1 OF 3
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>	Low Bar Top	
DO NOT SCALE	PROJECT	MODEL NAME GE-16030
		ISSUE

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MODEL NAME
GE-16030

TITLE
Low Bar Top

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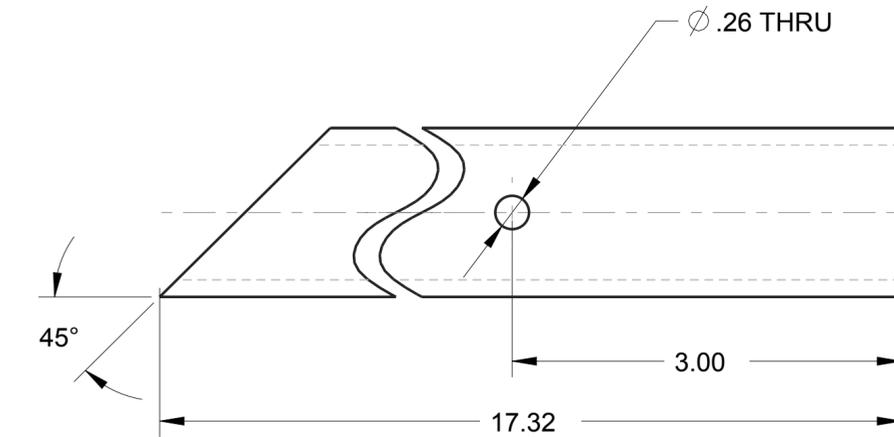
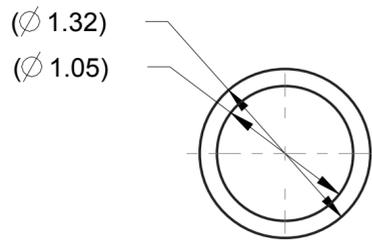
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SHEET 2 OF 3		
TITLE Low Bar Top		
PROJECT		MODEL NAME GE-16030
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 .XX +/- 0.1
 .XXX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- .1

DO NOT SCALE

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NOTE
 Part: GE-16030-01
 Material: Aluminum Schedule 40 Pipe, 1"
 Qty: 2
 Scale: 1:1

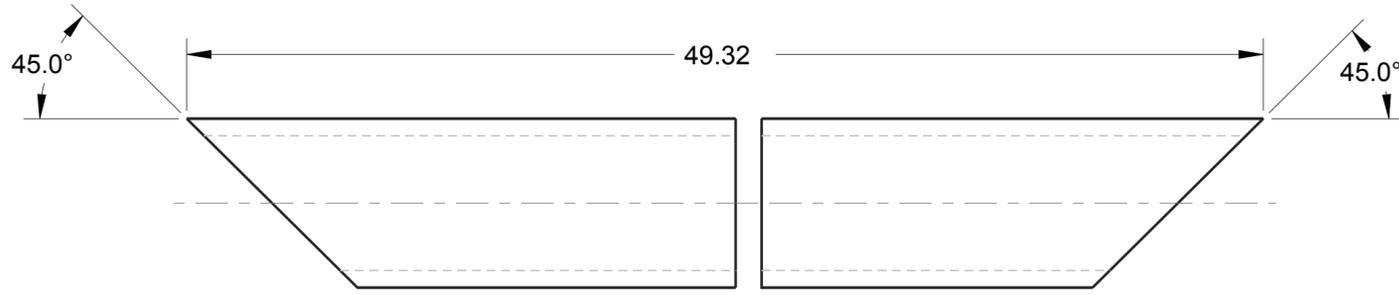
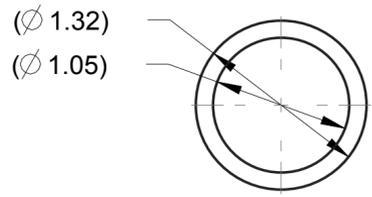
SCALE 1:1

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NOTE
 Part: GE-16030-02
 Material: Aluminum Schedule 40 Pipe, 1"
 Qty: 1
 Scale: 1:1

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE: Low Bar Top			
PROJECT:		MODEL NAME: GE-16030	ISSUE:
DO NOT SCALE			

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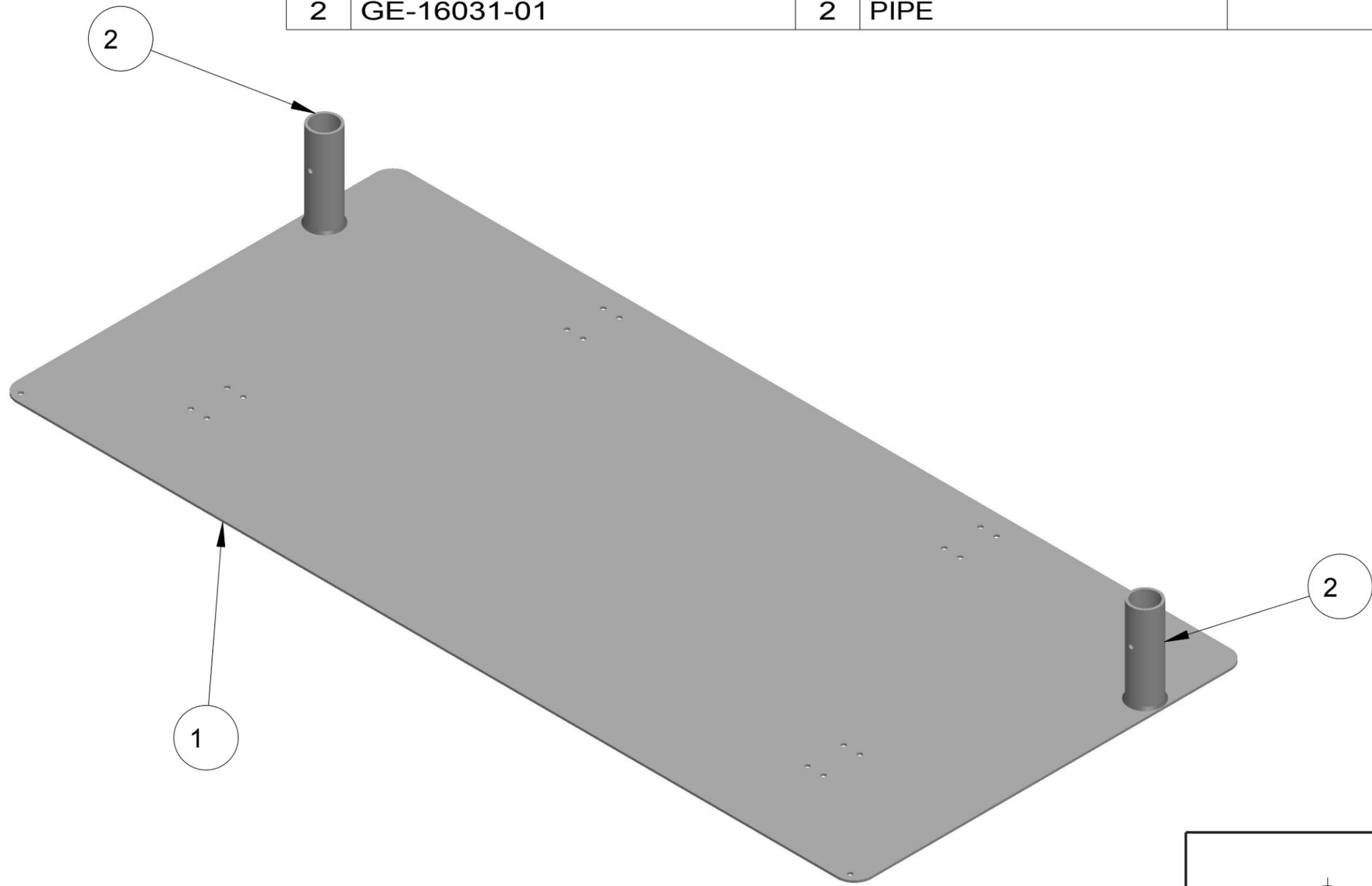
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MODEL NAME
GE-16031

TITLE
LOW BAR BASE

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	
2	GE-16031-01	2	PIPE	



SCALE 3:16

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		LOW BAR BASE	
DO NOT SCALE		PROJECT	MODEL NAME GE-16031
			ISSUE

MODEL NAME
GE-16031

TITLE
LOW BAR BASE

1.000

48.000

5.000

0.13

5.2

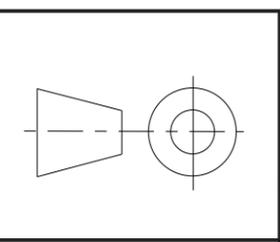
2

1

0.13

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2X 3.00



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 3:16	SHEET 2 OF 3

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE

TITLE LOW BAR BASE		
PROJECT	MODEL NAME GE-16031	ISSUE

D

D

C

C

B

B

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A

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4

MODEL NAME
GE-16031

TITLE
LOW BAR BASE

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D

C

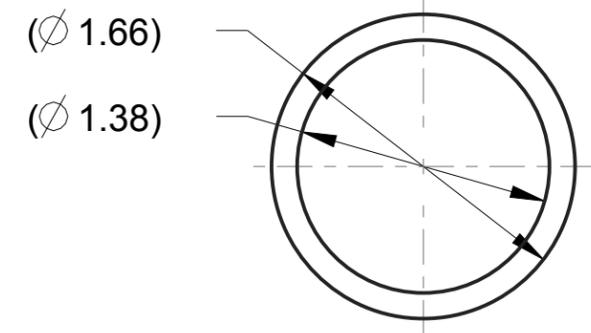
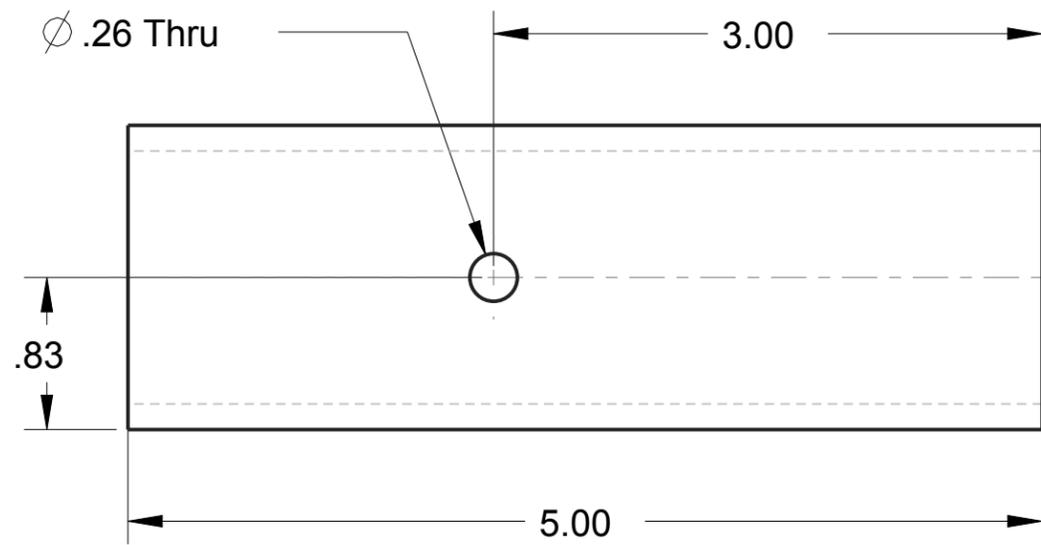
C

B

B

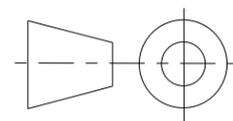
A

A



NOTE

Part: GE-16031-01
Material: 1.25" Schedule 40 Steel Pipe
Qty: 2
Scale: 1:1

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE LOW BAR BASE			
PROJECT		MODEL NAME GE-16031	ISSUE
DO NOT SCALE			

1

2

3

4

MODEL NAME
GE-16034

TITLE
Door

D

D

C

C

B

B

A

A



SCALE 3:8

ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16034-01	1	VERTICAL
2	GE-16034-02	2	HINGE
3	GE-16034-03	2	HINGE SPACER
4	GE-16034-04	1	HORIZONTAL
5	GE-16034-05	2	MOUNTING BRACKET
6	GE-16034-06	1	BRACE

	DRAWN BY	DATE
	CHECKED BY	DATE
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	SCALE 3:8	SHEET 1 OF 5
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>	TITLE Door	
DO NOT SCALE	PROJECT	MODEL NAME GE-16034
		ISSUE

1

2

3

4

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D

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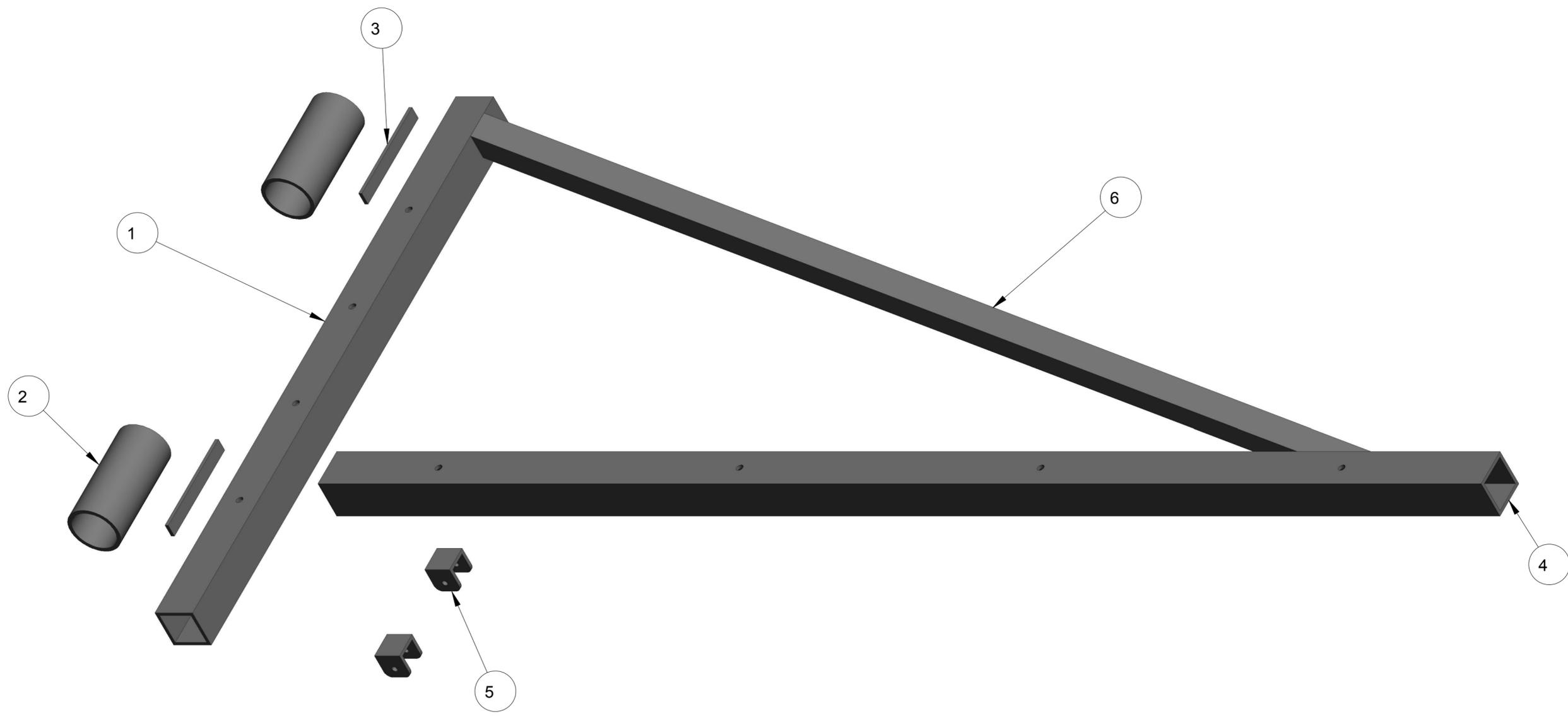
C

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		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 3:8	SHEET 2 OF 5
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		TITLE Door	
DO NOT SCALE		PROJECT	MODEL NAME GE-16034
			ISSUE

1

2

3

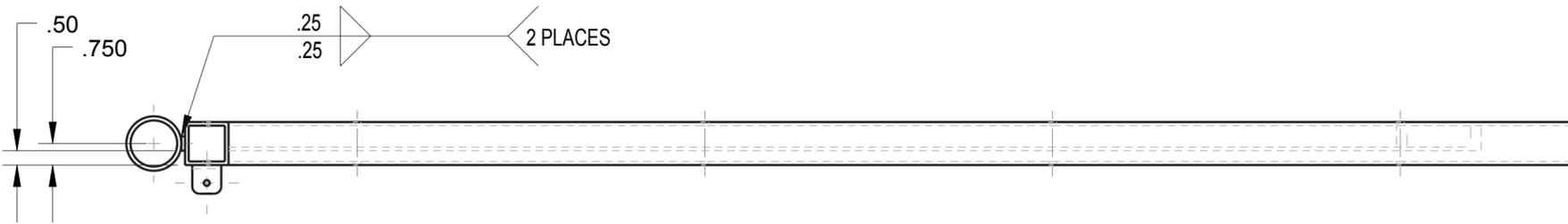
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MODEL NAME
GE-16034

TITLE
Doo

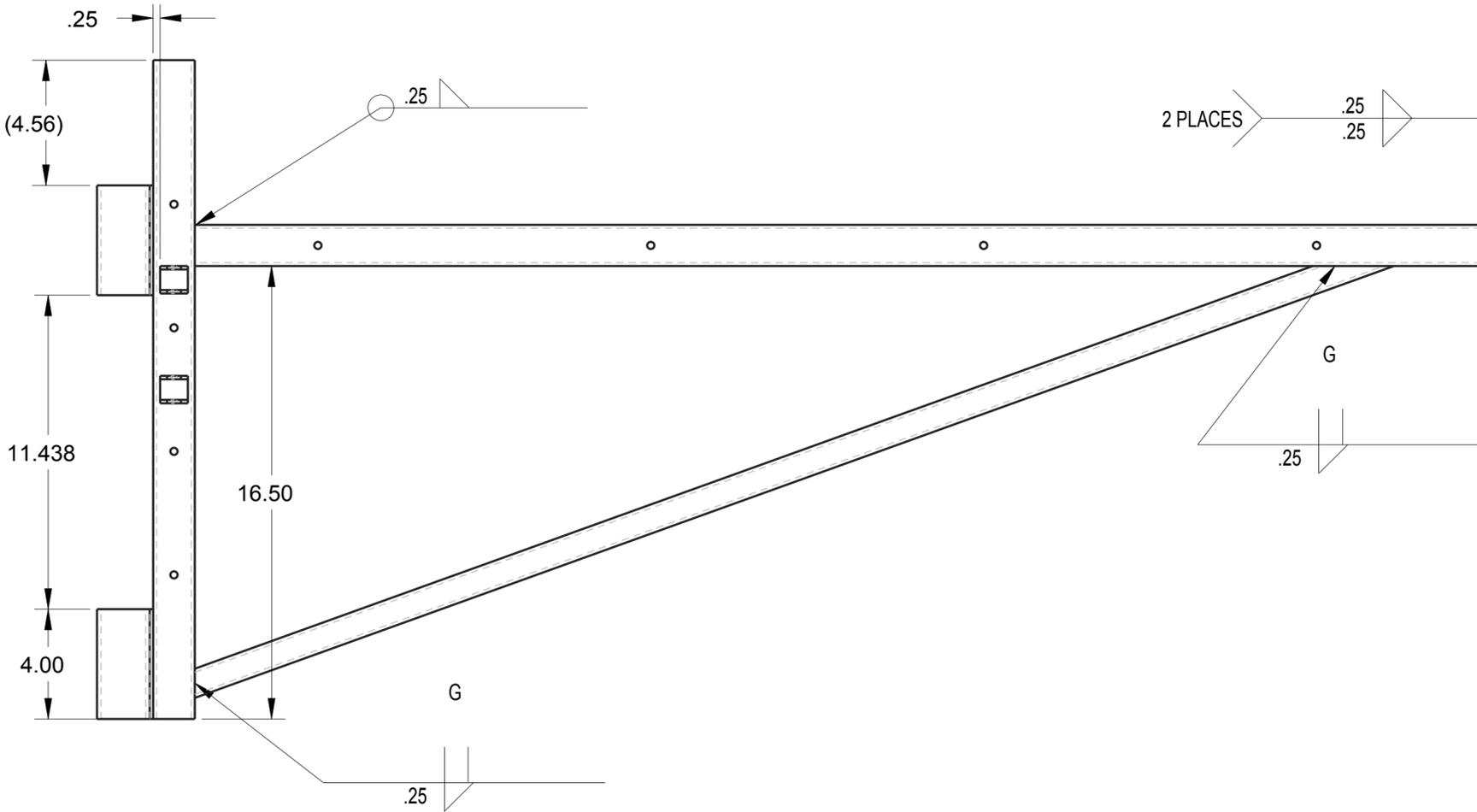
D

D



C

C



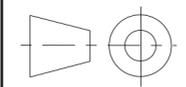
B

B

A

A

NOTE: GRIND WELDS ON THIS FACE FLAT



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CHECKED BY	DATE
APPROVED BY	DATE

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SCALE 3:8 SHEET 3 OF 5

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- .1

TITLE
Door

PROJECT	MODEL NAME GE-16034	ISSUE
---------	------------------------	-------

DO NOT SCALE

1

2

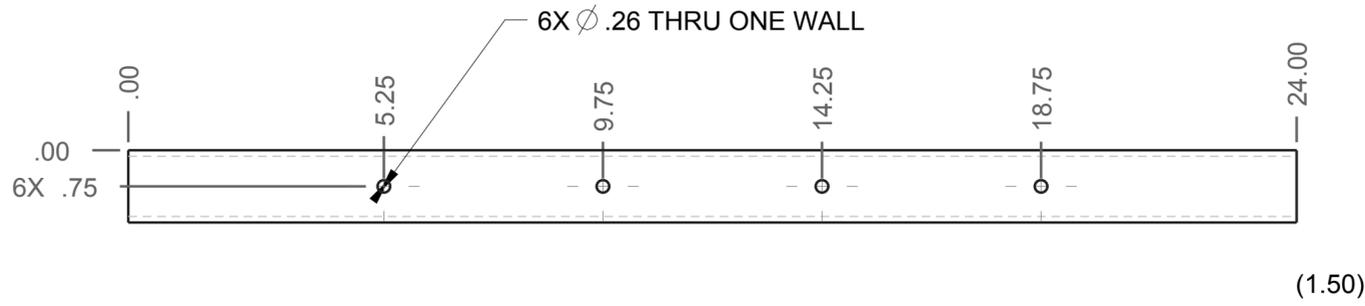
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4

MODEL NAME
GE-16034

TITLE
Door

D

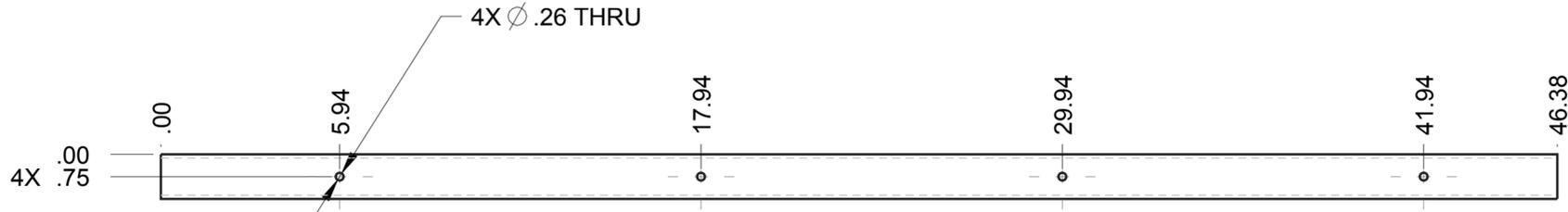


NOTE

Part: GE-16034-01
 Material: 1.5" Aluminum Square Tubing
 Qty: 1
 Scale: 3:8

D

C

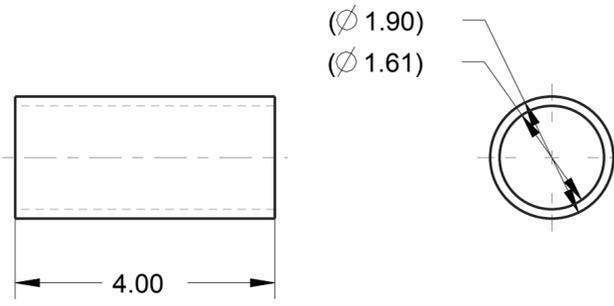


NOTE

Part: GE-16034-04
 Material: 1.5" Aluminum Square Tubing
 Qty: 1
 Scale: 1:4

C

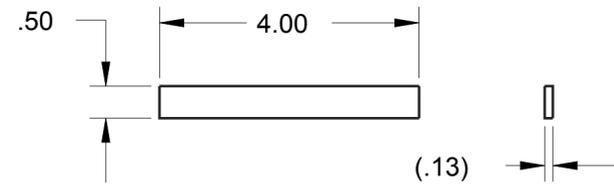
B



NOTE

Part: GE-16034-02
 Material: 1.5" Aluminum Schedule 40 Pipe
 Qty: 2
 Scale: 1:2

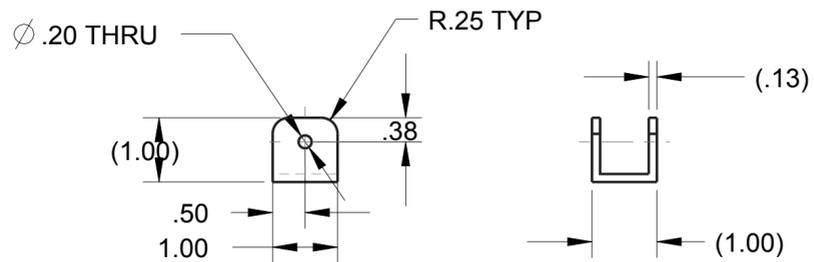
B



NOTE

Part: GE-16034-03
 Material: 5052 Aluminum, .125" Thick
 Qty: 2
 Scale: 1:2

A



NOTE

Part: GE-16034-05
 Material: 1.5" Aluminum Channel, .125" Wall
 Qty: 2
 Scale: 1:2

A

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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Door		
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 .XXXX ±0.001 ANG ±1°</small>	PROJECT	MODEL NAME GE-16034
DO NOT SCALE		ISSUE

1

2

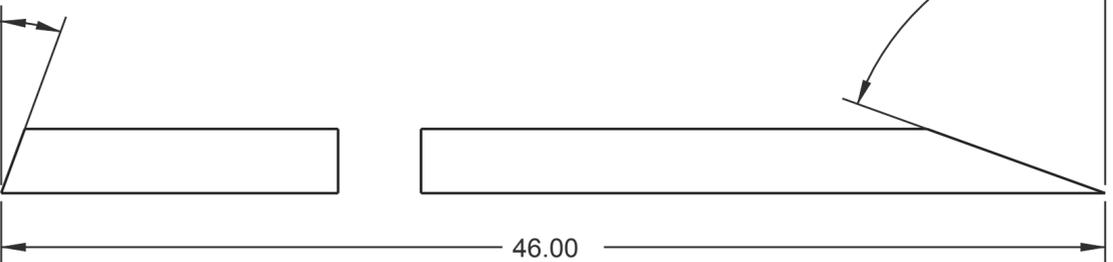
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MODEL NAME
GE-16034

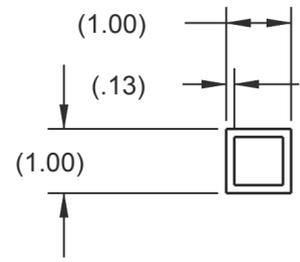
TITLE
Door

20°



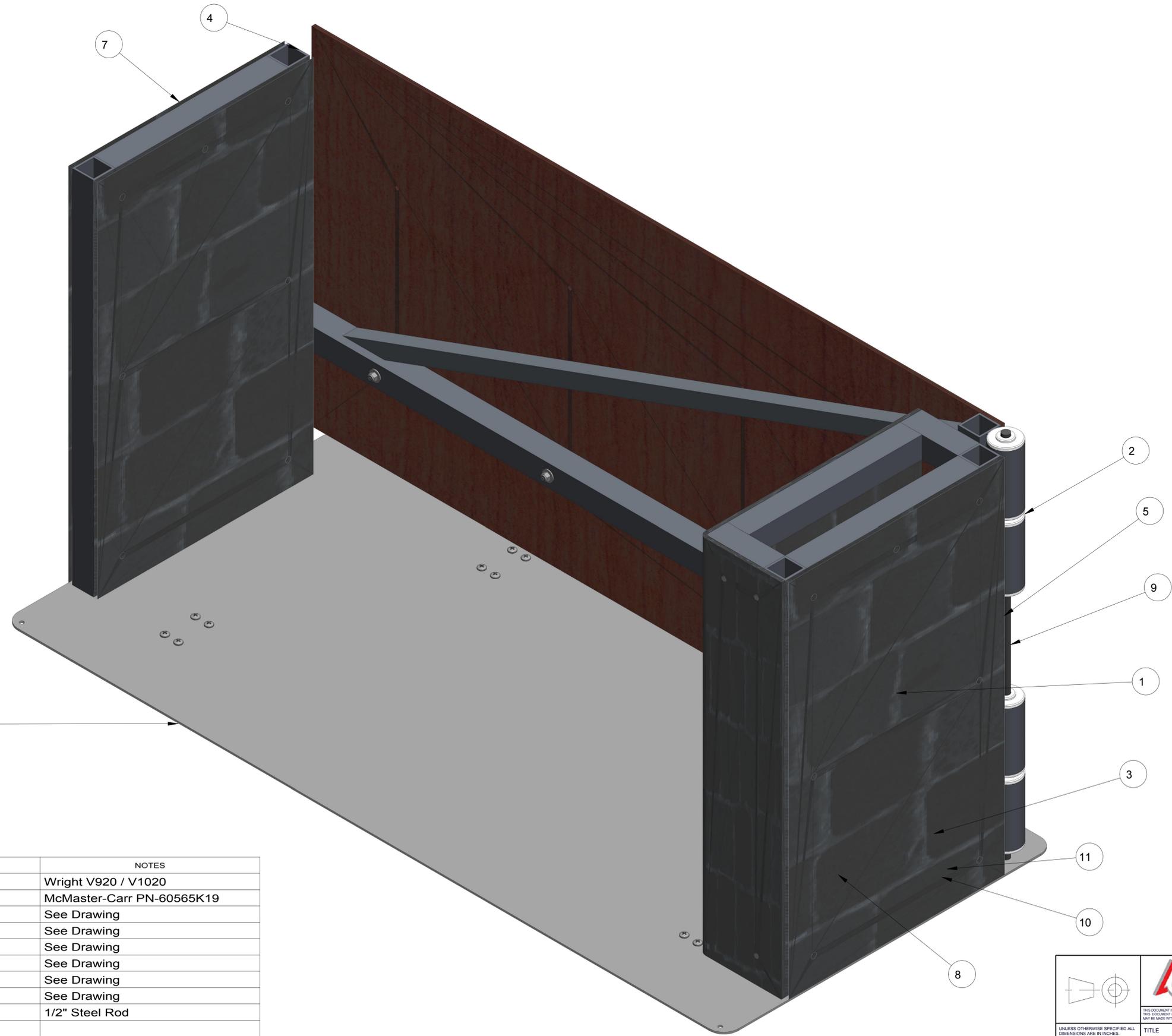
70°

46.00



NOTE
 Part: GE-16034-06
 Material: 1" Aluminum Channel, .125" Wall
 Qty: 2
 Scale: 1:2

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 .XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small>	TITLE Door		
	PROJECT	MODEL NAME GE-16034	ISSUE
DO NOT SCALE			



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16032	1	damper, sally port	Wright V920 / V1020
2	GE-16033	4	conveyor roller bearing	McMaster-Carr PN-60565K19
3	GE-16036	1	SALLY PORT FRAME 1	See Drawing
4	GE-16037	1	SALLY PORT FRAME 2	See Drawing
5	GE-16038	1	sally port door, assembly	See Drawing
6	GE-16040	1	sally port, base assembly	See Drawing
7	GE-16152	3	side plastic, sally port	See Drawing
8	GE-16153	1	side plastic 2, sally port	See Drawing
9	GE-16154	1	hinge pin, sally port	1/2" Steel Rod
10	HW-00086	6	pan head, 1/4-20 x 1"	
11	HW-00088	6	1/4"-20 Washer	

	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	SCALE 3:8 SHEET 1 OF 4
	TITLE: Sally Port Assembly
	PROJECT: _____ MODEL NAME: GE-16035 ISSUE: _____

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
XXX +/- 0.1
XXX +/- 0.01
XXX +/- 0.001
ANG +/- 1

DO NOT SCALE

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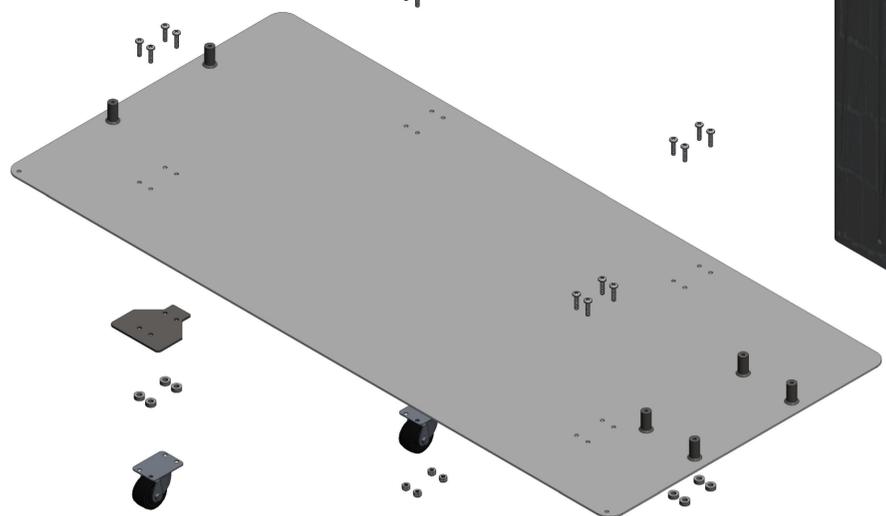
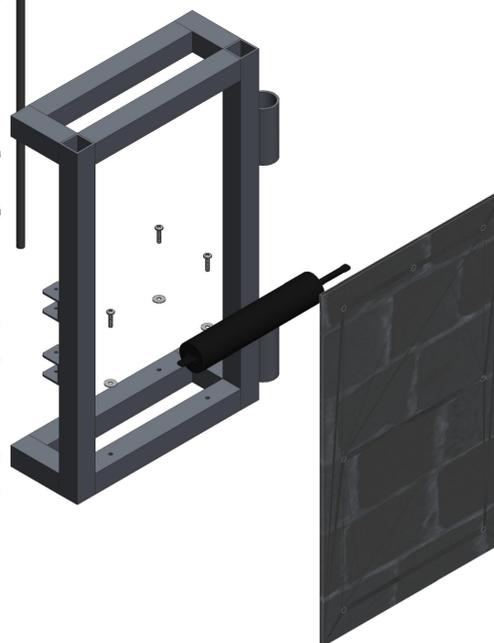
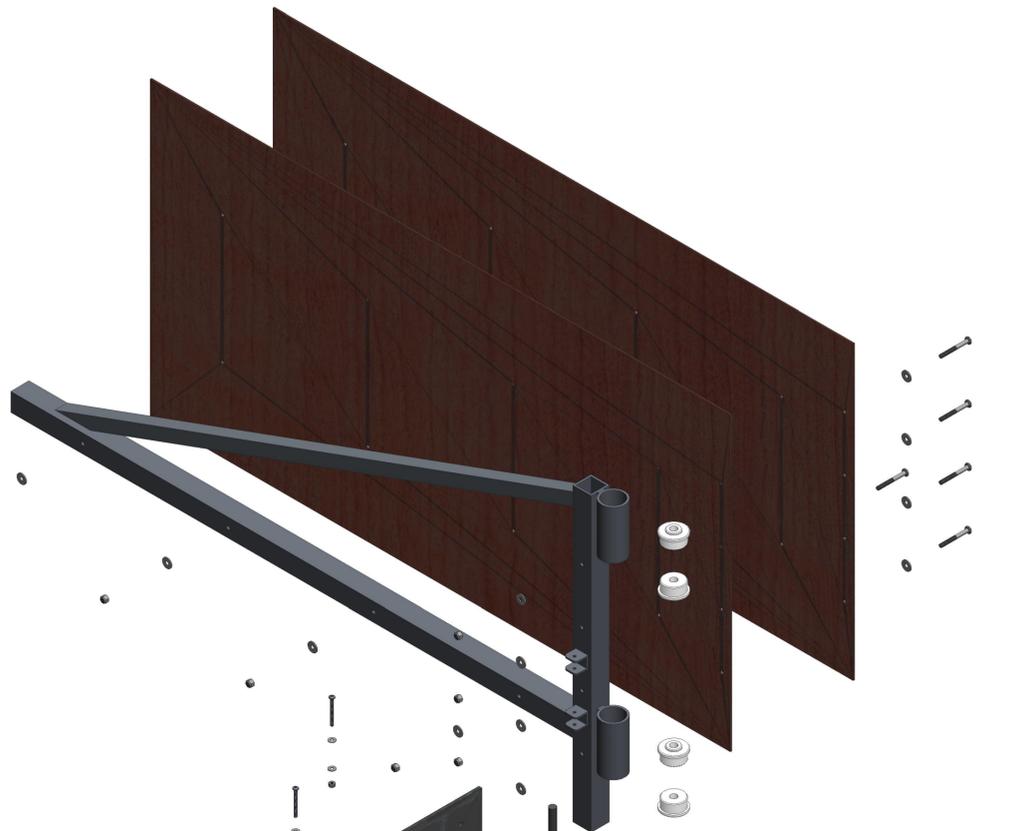
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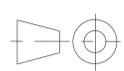
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MODEL NAME: GE-16035 TITLE: Sally Port Assembly



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>
TITLE Sally Port Assembly		SCALE 3:8 SHEET 2 OF 4
PROJECT	MODEL NAME GE-16035	ISSUE
DO NOT SCALE		

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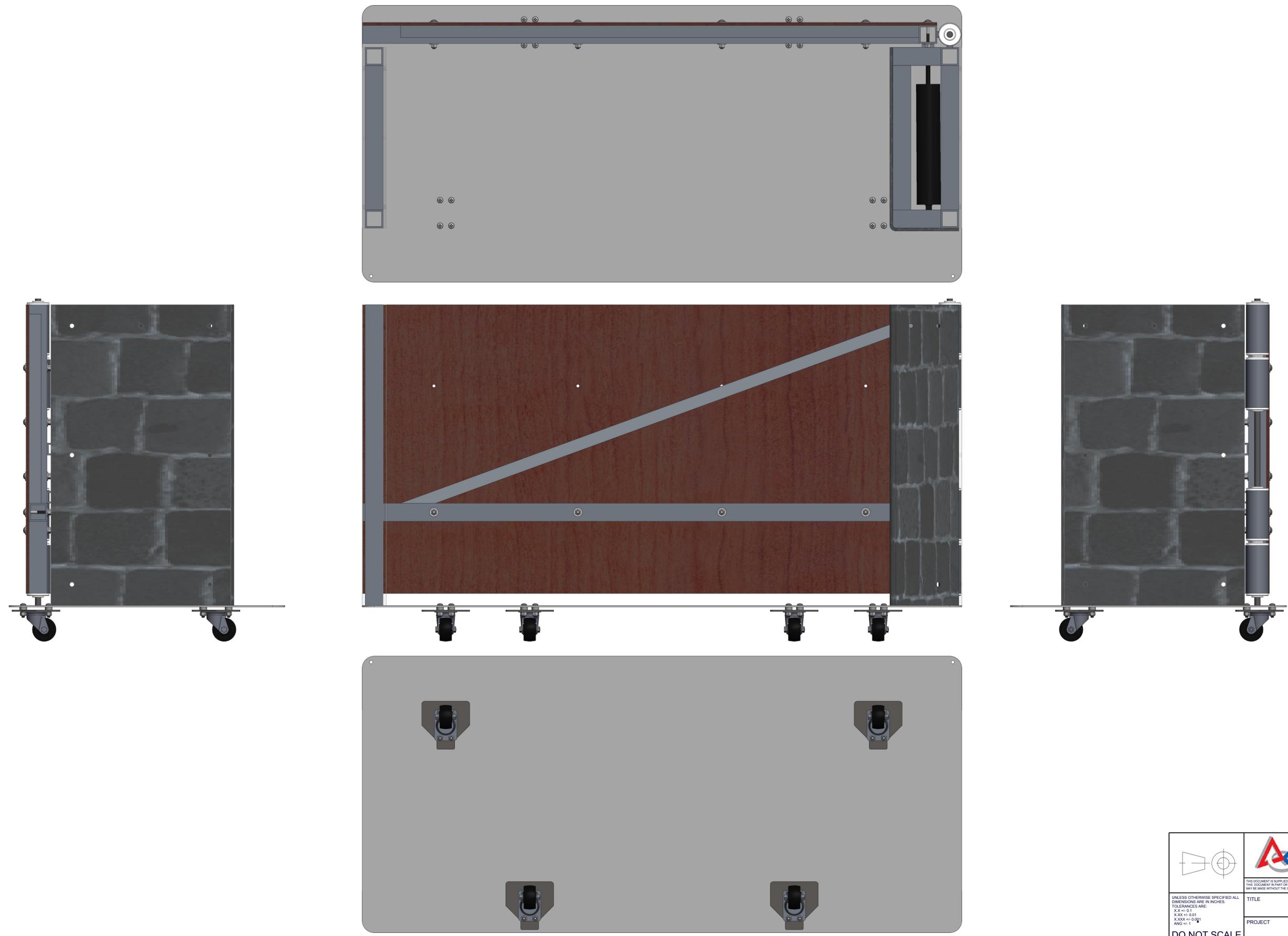
E

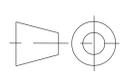
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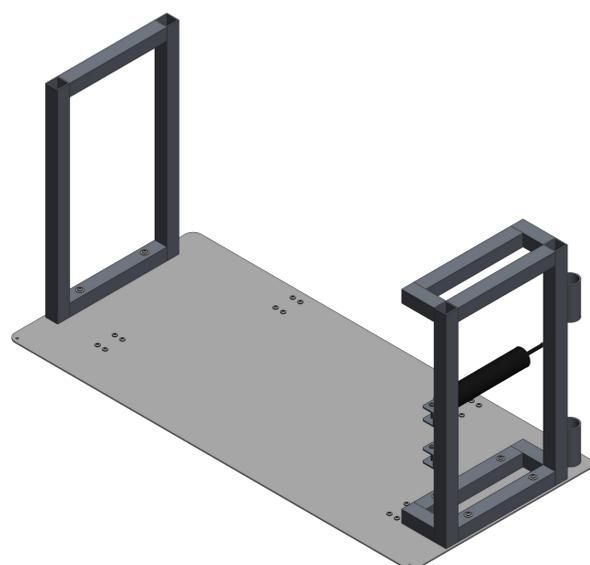
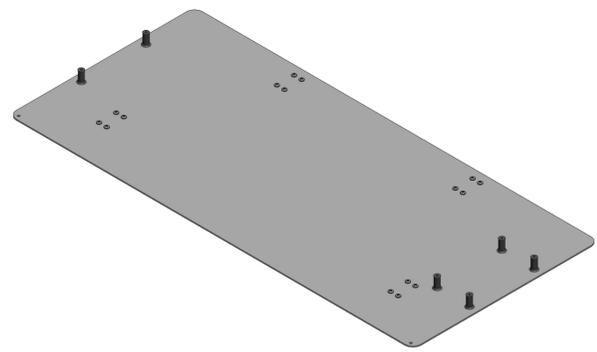
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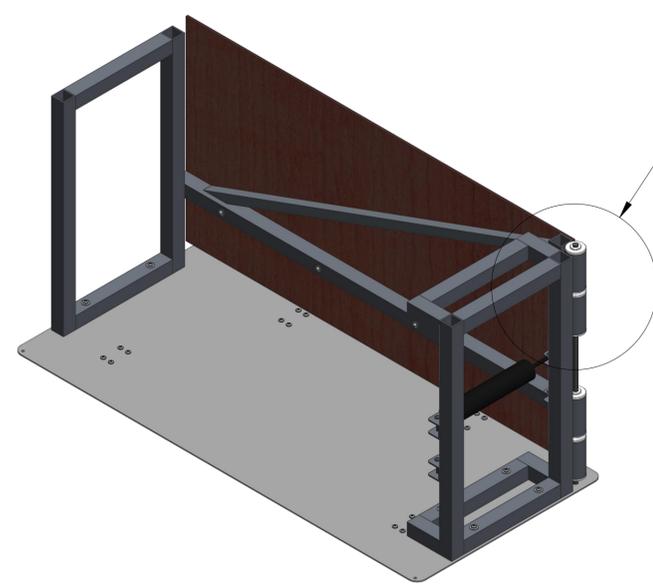
A



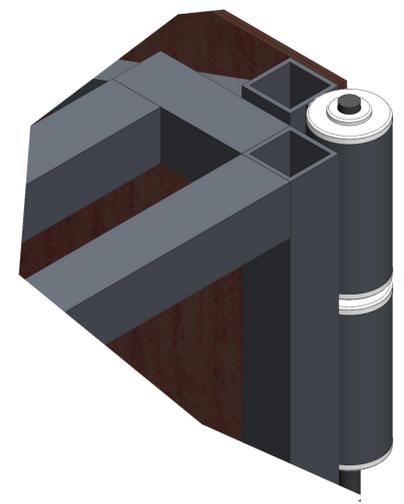
 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. XXX +/- 0.1 XXXX +/- 0.01 ANGLE +/- 1 DO NOT SCALE</p>	 <p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNER'S WRITTEN PERMISSION.</p>	DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		TITLE: Sally Port Assembly PROJECT: _____ MODEL NAME: GE-16035 ISSUE: _____	
SCALE 3:8		SHEET 3 OF 4	



NOTE: Secure GE-16036 and GE-16037 using 1/4"-20 machine screws and washers
Secure GE-16032 the using 10-24 Hardware

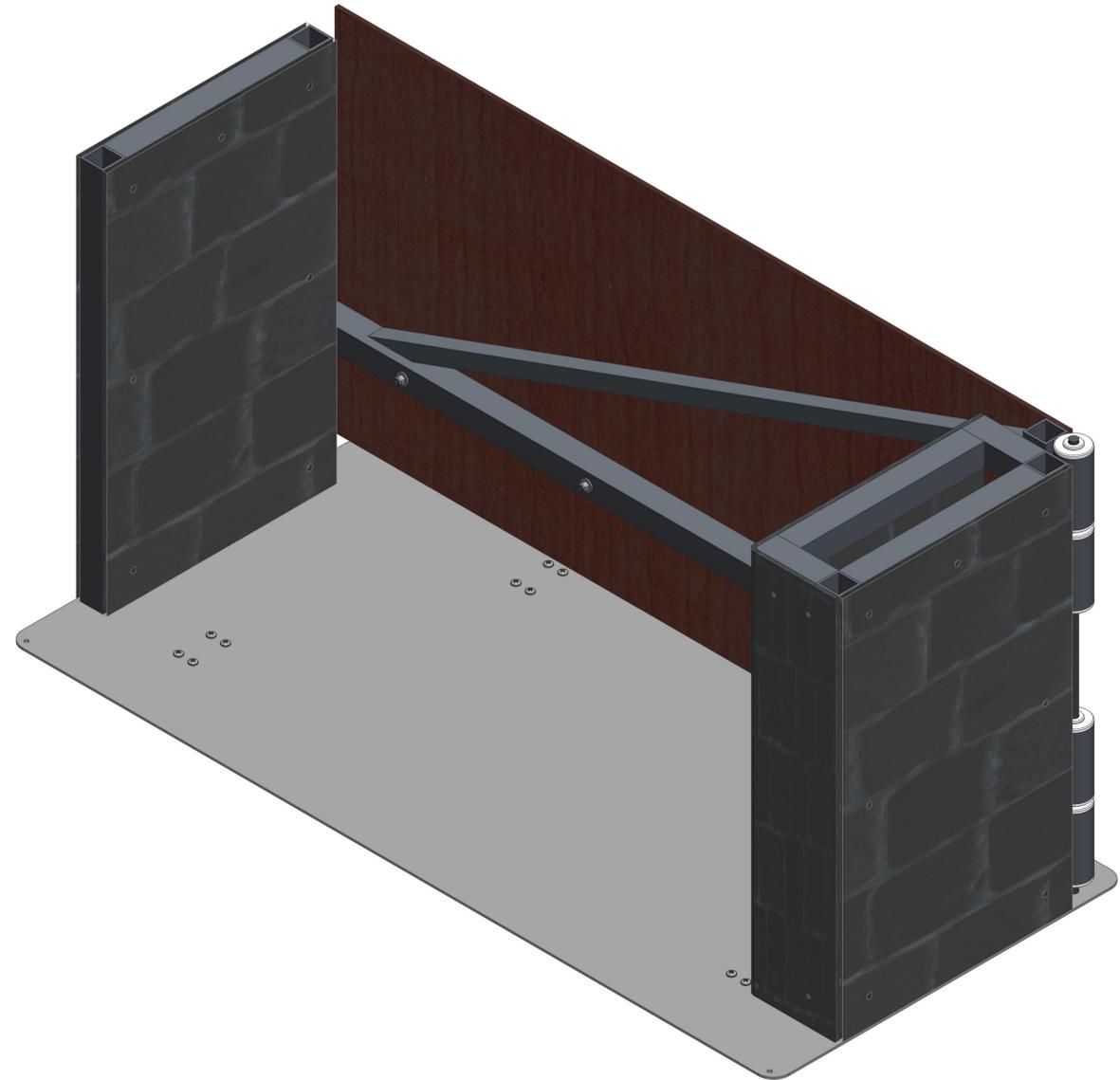


SEE DETAIL A



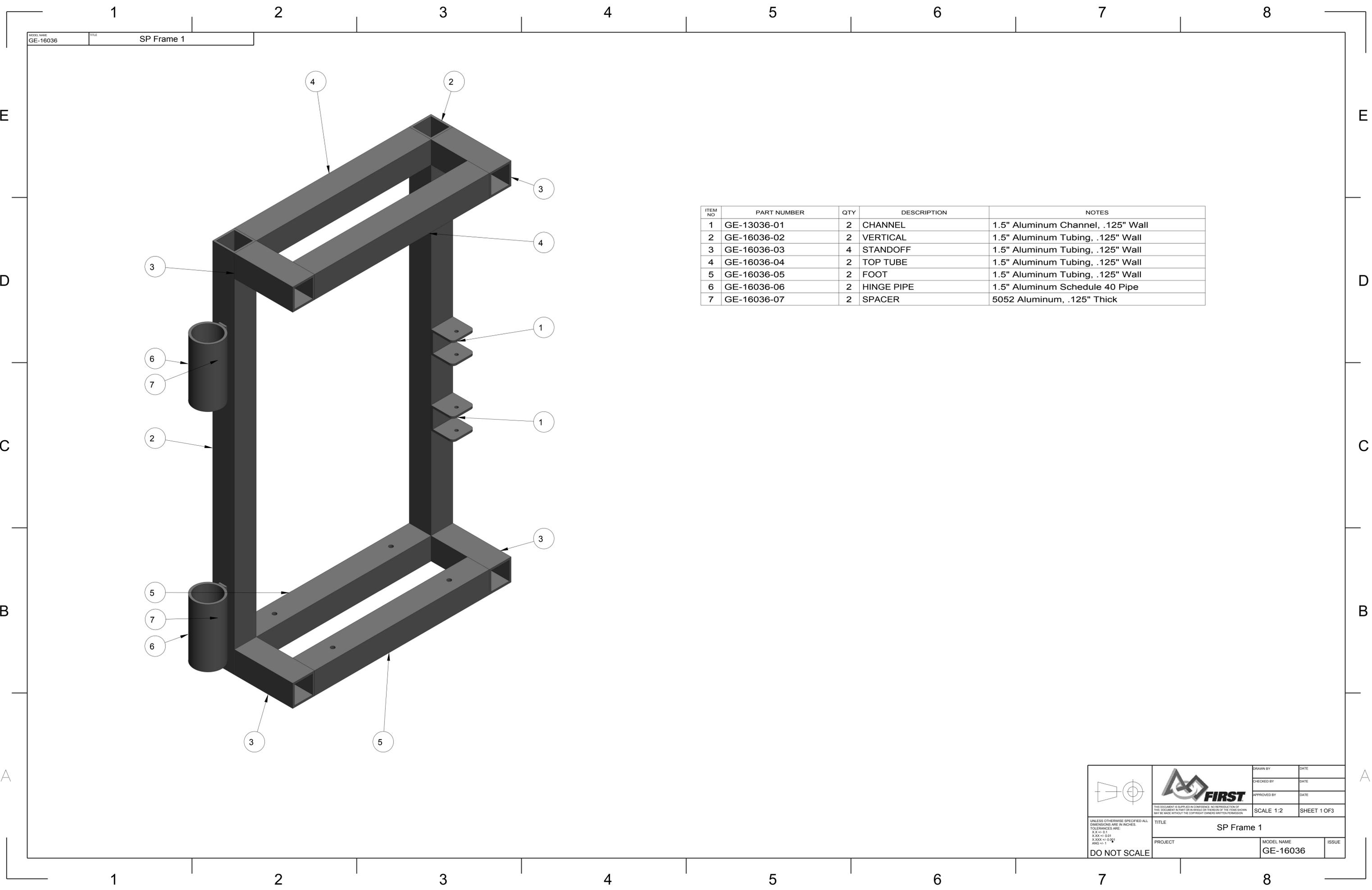
DETAIL A
SCALE 1:2

Place GE-16038 into place, and drive GE-16154 through the center of the Conveyor Bearings. Be sure that the door swing freely after assembly. Attach GE-16032 using 10-24 Hardware, similar to the step above



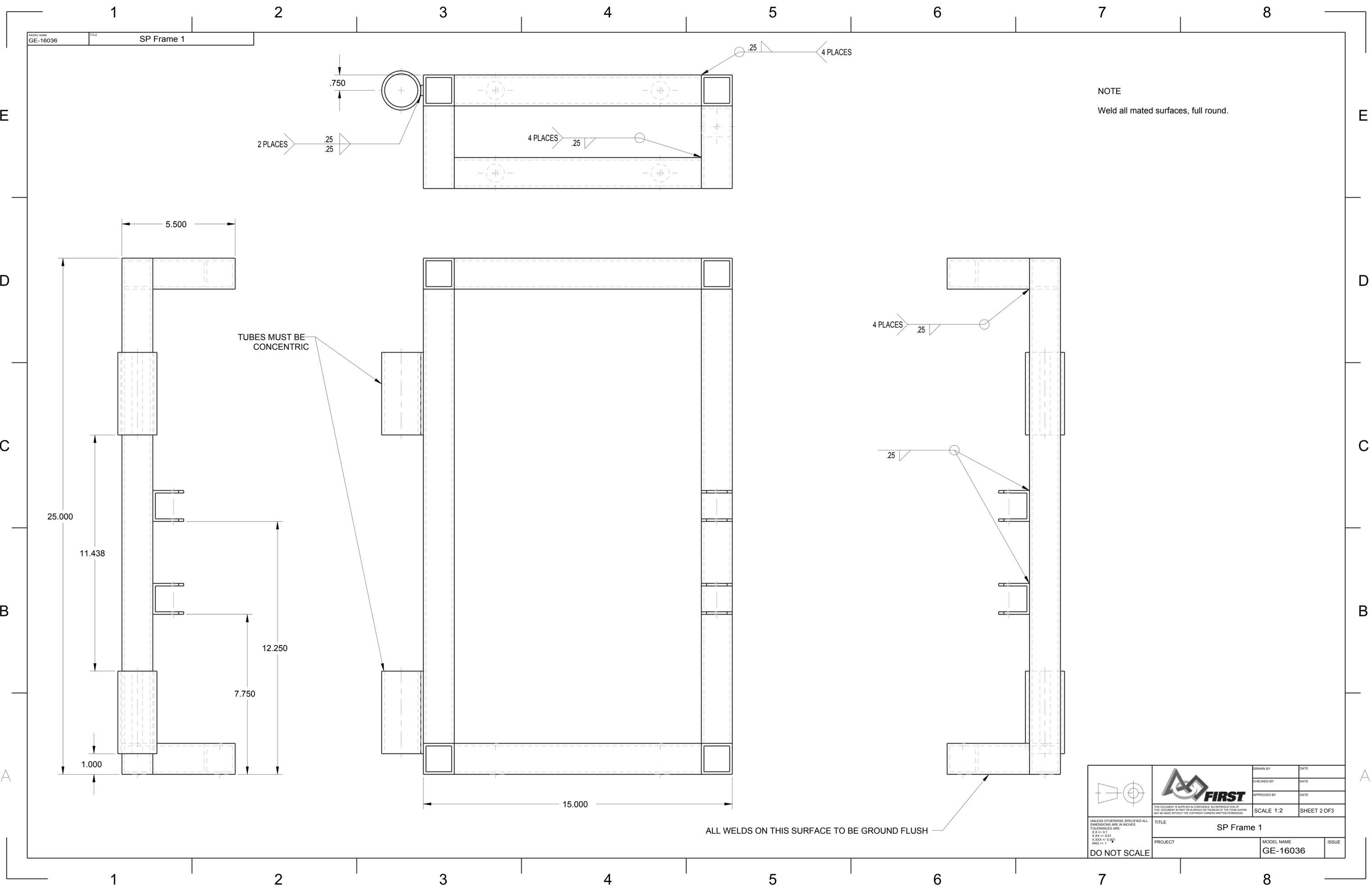
NOTE: Using Cable Ties, secure the protective / decorative polycarbonate sheets to the Sally Port Side Frames

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	CHECKED BY	DATE
	APPROVED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXXX +/- 0.001 ANG +/- 1</small>		SCALE 3:8 SHEET 4 OF 4
TITLE: Sally Port Assembly		MODEL NAME: GE-16035 ISSUE:
PROJECT:		DO NOT SCALE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-13036-01	2	CHANNEL	1.5" Aluminum Channel, .125" Wall
2	GE-16036-02	2	VERTICAL	1.5" Aluminum Tubing, .125" Wall
3	GE-16036-03	4	STANDOFF	1.5" Aluminum Tubing, .125" Wall
4	GE-16036-04	2	TOP TUBE	1.5" Aluminum Tubing, .125" Wall
5	GE-16036-05	2	FOOT	1.5" Aluminum Tubing, .125" Wall
6	GE-16036-06	2	HINGE PIPE	1.5" Aluminum Schedule 40 Pipe
7	GE-16036-07	2	SPACER	5052 Aluminum, .125" Thick

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		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE SP Frame 1		SCALE 1:2	SHEET 1 OF 3
PROJECT		MODEL NAME GE-16036	ISSUE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± .1</small>			
DO NOT SCALE			

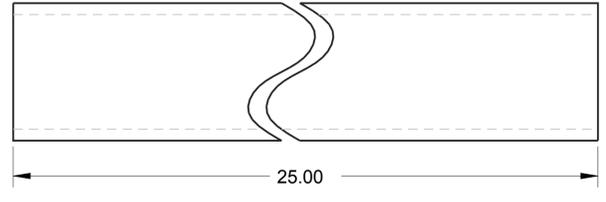
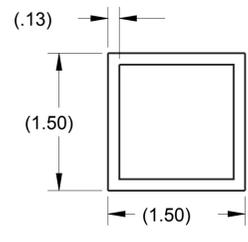


NOTE
 Weld all mated surfaces, full round.

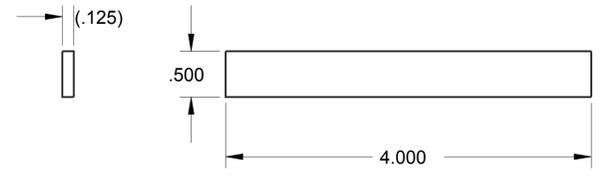
TUBES MUST BE
 CONCENTRIC

ALL WELDS ON THIS SURFACE TO BE GROUND FLUSH

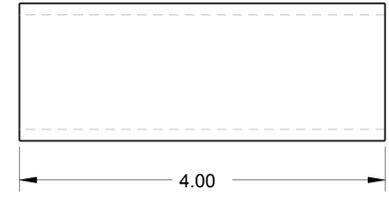
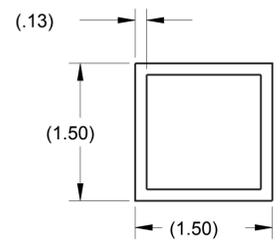
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		APPROVED BY	DATE
		SCALE 1:2 SHEET 2 OF 3	
TITLE: SP Frame 1		MODEL NAME	ISSUE
PROJECT:		GE-16036	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± .1 DO NOT SCALE			



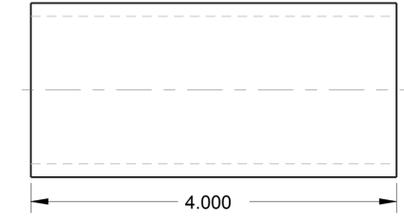
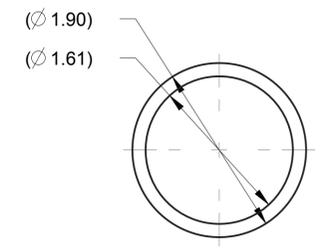
NOTE
 Part: GE-16036-02
 Material: 6061 Aluminum Square Tubing, 1.5"
 Qty: 2
 Scale: 1:2



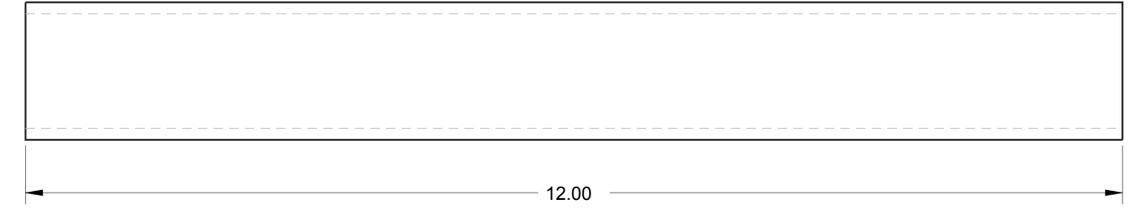
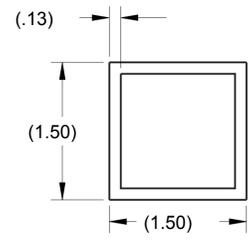
NOTE
 Part: GE-16036-07
 Material: 5052 Aluminum, .125" Thick
 Qty: 2
 Scale: 1:2



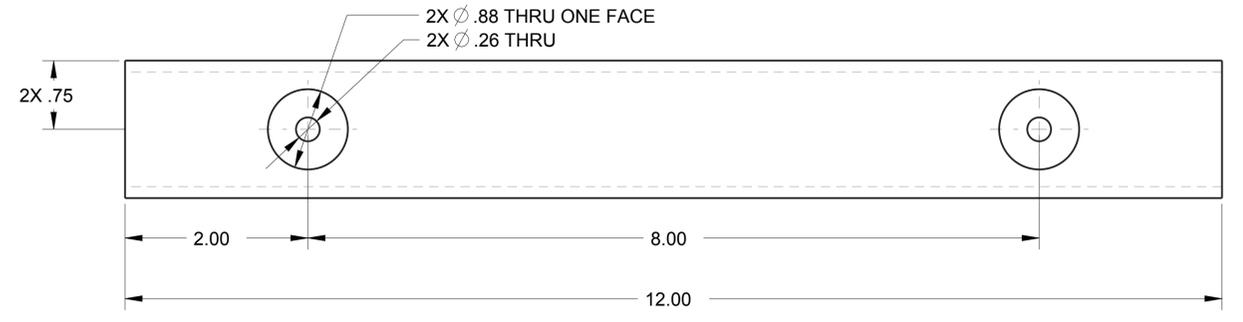
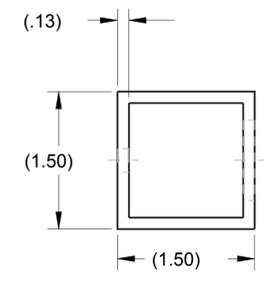
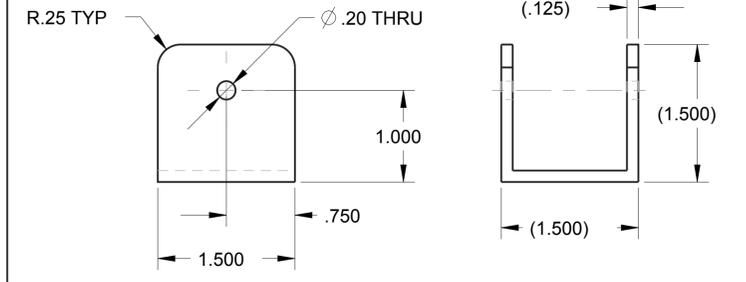
NOTE
 Part: GE-16036-03
 Material: 6061 Aluminum Square Tubing, 1.5"
 Qty: 4
 Scale: 1:2



NOTE
 Part: GE-16036-06
 Material: 1.5" Aluminum Schedule 40 Pipe
 Qty: 2
 Scale: 1:2



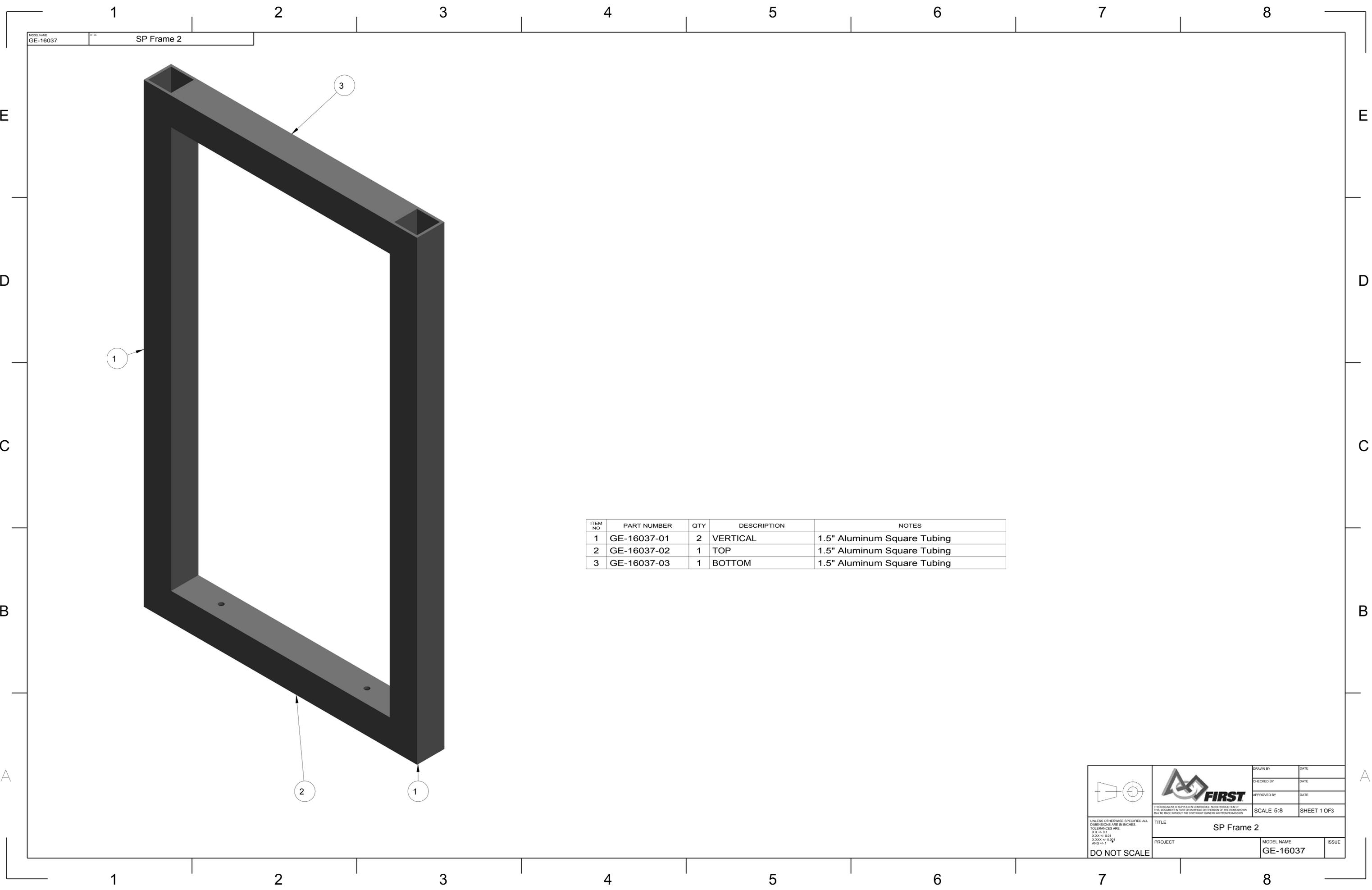
NOTE
 Part: GE-16036-04
 Material: 6061 Aluminum Square Tubing, 1.5"
 Qty: 2
 Scale: 1:2



NOTE
 Part: GE-16036-05
 Material: 6061 Aluminum Square Tubing, 1.5"
 Qty: 2
 Scale: 1:2

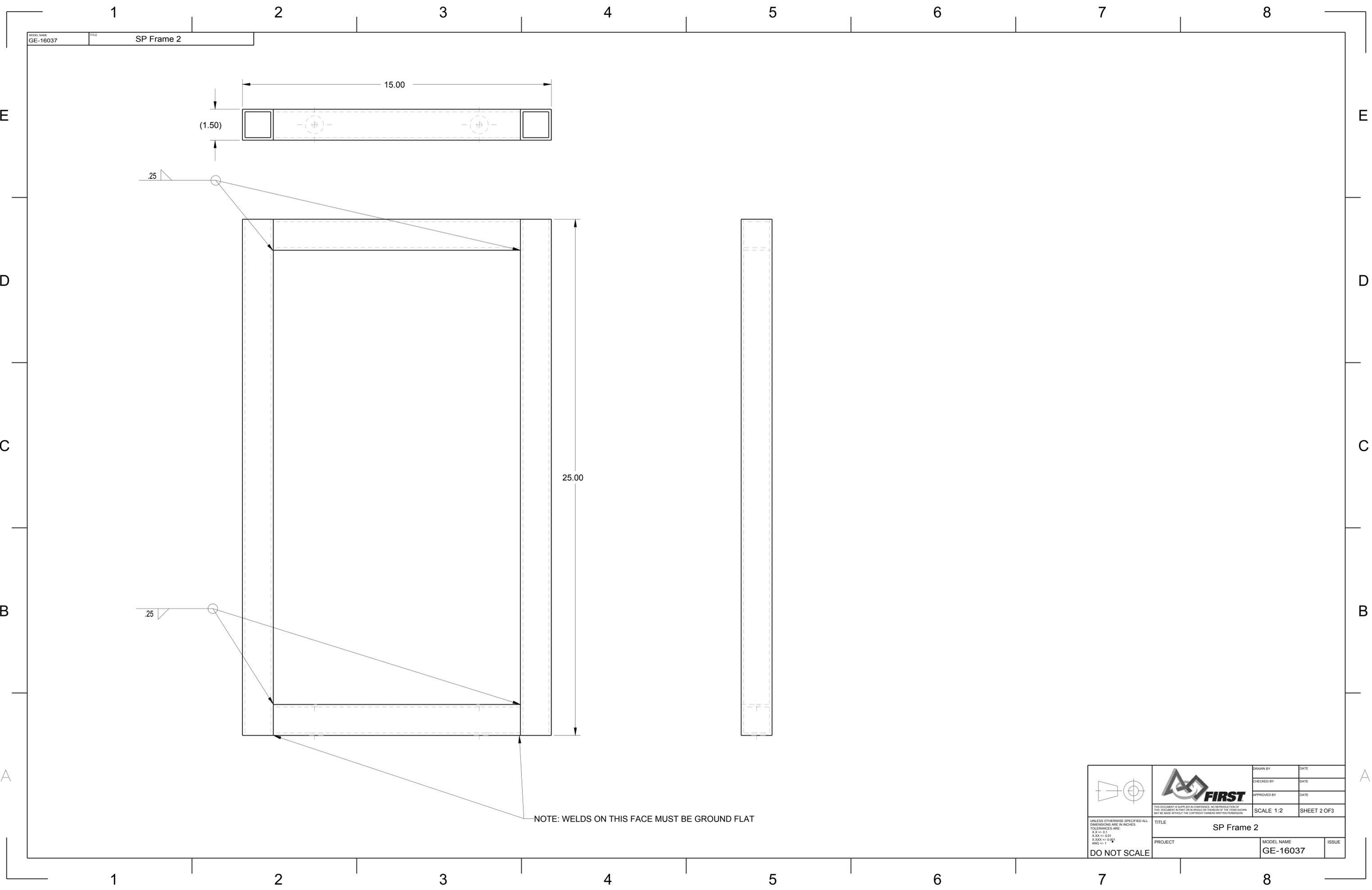
NOTE
 Part: GE-16036-01
 Material: 6061 Aluminum Channel, 1.5"
 Qty: 2
 Scale: 1:2

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		SCALE 1:2 SHEET 3 OF 3	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± .01 XXXX ± .001 ANG ± .1		TITLE: SP Frame 1	
PROJECT:		MODEL NAME: GE-16036	ISSUE:
DO NOT SCALE			



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16037-01	2	VERTICAL	1.5" Aluminum Square Tubing
2	GE-16037-02	1	TOP	1.5" Aluminum Square Tubing
3	GE-16037-03	1	BOTTOM	1.5" Aluminum Square Tubing

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</small>	
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TITLE SP Frame 2		PROJECT	ISSUE
DO NOT SCALE		MODEL NAME GE-16037	



.25

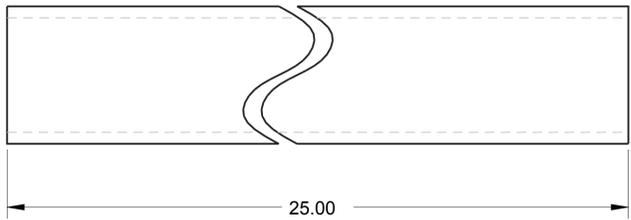
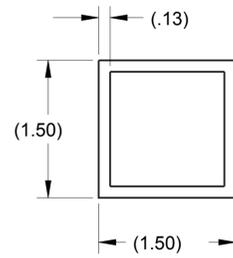
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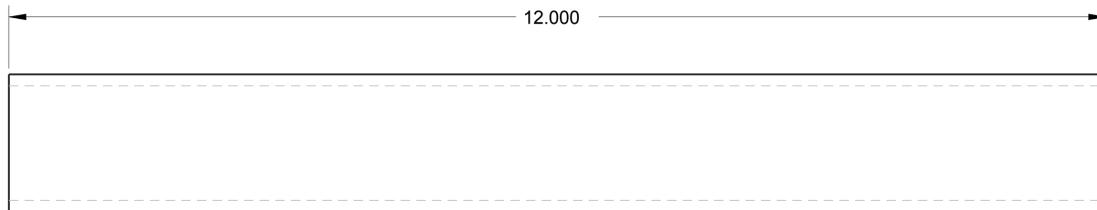
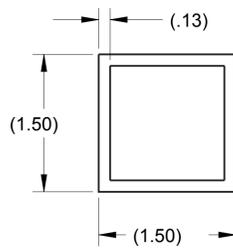
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NOTE: WELDS ON THIS FACE MUST BE GROUND FLAT

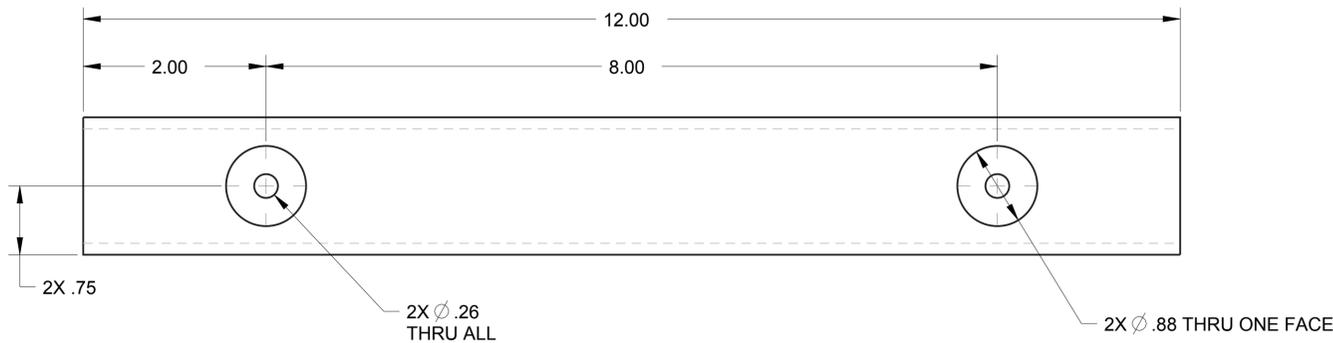
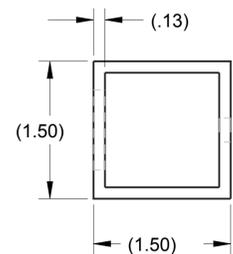
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	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. .XXX +/- 0.1 .XX +/- 0.01 .X +/- 0.001 ANG +/- 1</small>	
TITLE: SP Frame 2		SCALE 1:2
PROJECT:		SHEET 2 OF 3
MODEL NAME: GE-16037		ISSUE:
DO NOT SCALE		



NOTE
 Part: GE-16037-01
 Material: 6063 Aluminum Square Tubing, 1.5"
 Qty: 2
 Scale: 1:1



NOTE
 Part: GE-16037-02
 Material: 6063 Aluminum Square Tubing, 1.5"
 Qty: 1
 Scale: 1:1



NOTE
 Part: GE-16037-03
 Material: 6063 Aluminum Square Tubing, 1.5"
 Qty: 2
 Scale: 1:1

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 5:8 SHEET 3 OF 3	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ±.01 XXXX ±.001 ANG ±.1	TITLE: SP Frame 2	
DO NOT SCALE	PROJECT:	MODEL NAME: GE-16037
		ISSUE:

1 2 3 4 5 6 7 8

MODEL NAME: GE-16038 TITLE: Sally Port Door Assembly

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1	Changed Item #9 to 2.25" Long	NJS	2/29/2016



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16033	4	conveyor roller bearing	McMaster-Carr PN-60565K19
2	GE-16034	1	SALLY PORT DOOR FRAME	See Drawing
3	GE-16044	2	sally port door plastic	See Drawing
4	HW-00087	8	nut, nylock 1/4-20	Hardware
5	HW-00088	16	1/4"-20 Washer	Hardware
6	HW-00090	4	washer, #10	Hardware
7	HW-00091	2	pan head, #10-24 x 2"	Hardware
8	HW-00092	2	nut, nylock, #10-24	Hardware
9	HW-00118	8	1/4"-20 Machine Screw, 2.25" Long	Hardware

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 7:16 SHEET 1 OF 4	
TITLE: Sally Port Door Assembly		
PROJECT		MODEL NAME: GE-16038
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.001
 ANG ± 1
 DO NOT SCALE

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MODEL NAME: GE-16038 TITLE: Sally Port Door Assembly

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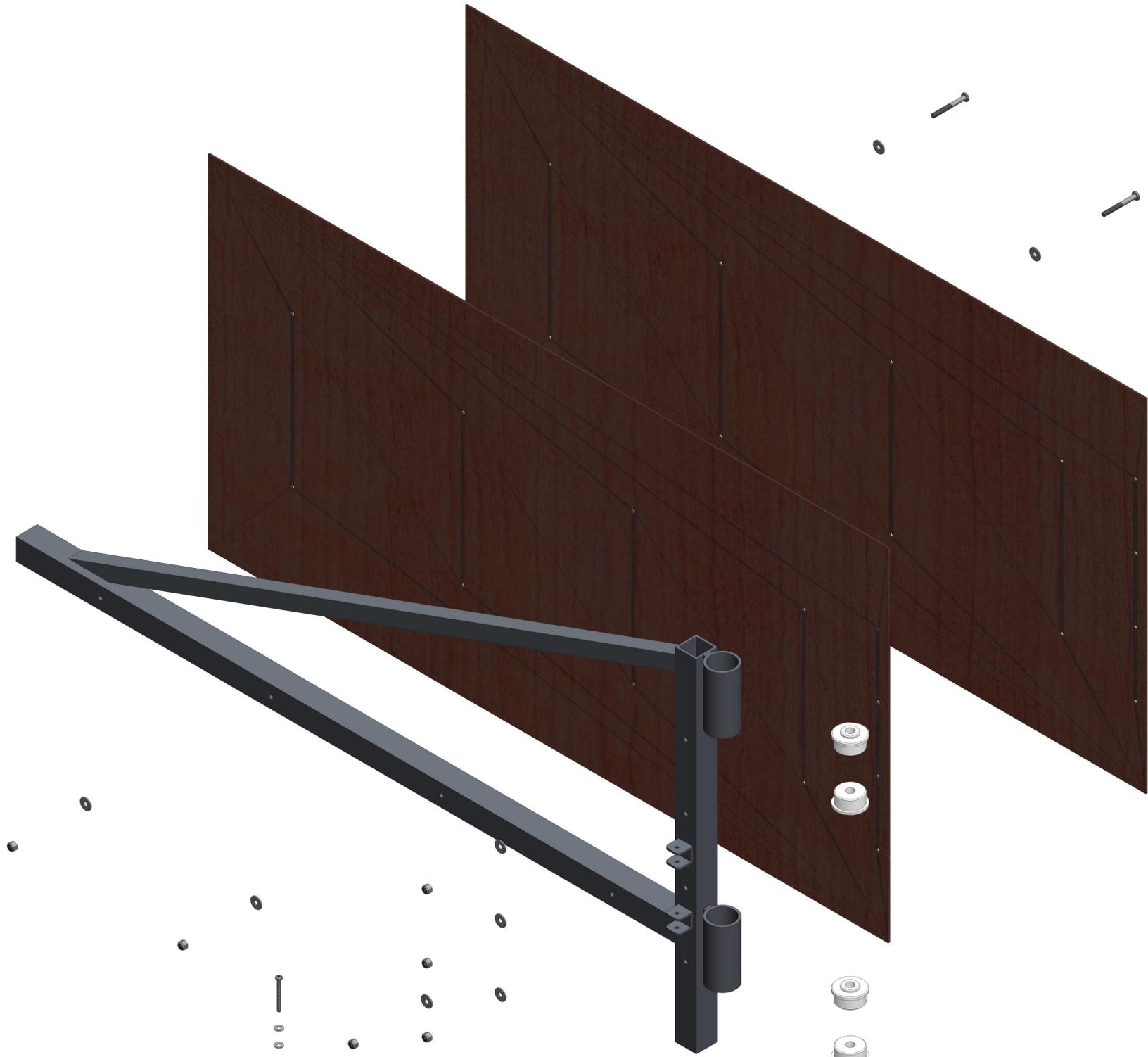
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SCALE 5:16

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	APPROVED BY	DATE
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TITLE: Sally Port Door Assembly		SCALE 5:16 SHEET 2 OF 4
PROJECT	MODEL NAME: GE-16038	ISSUE

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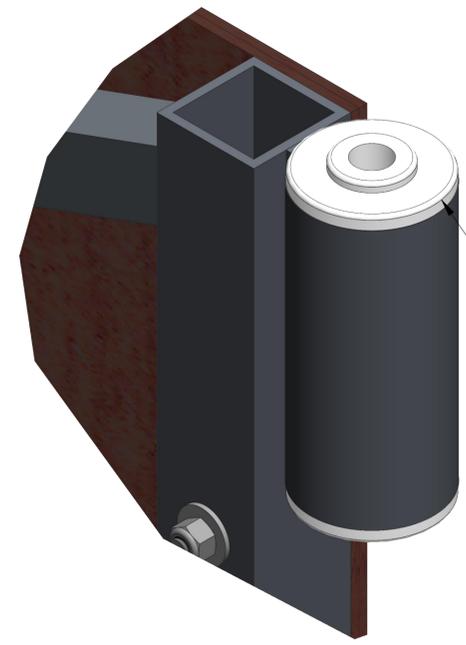
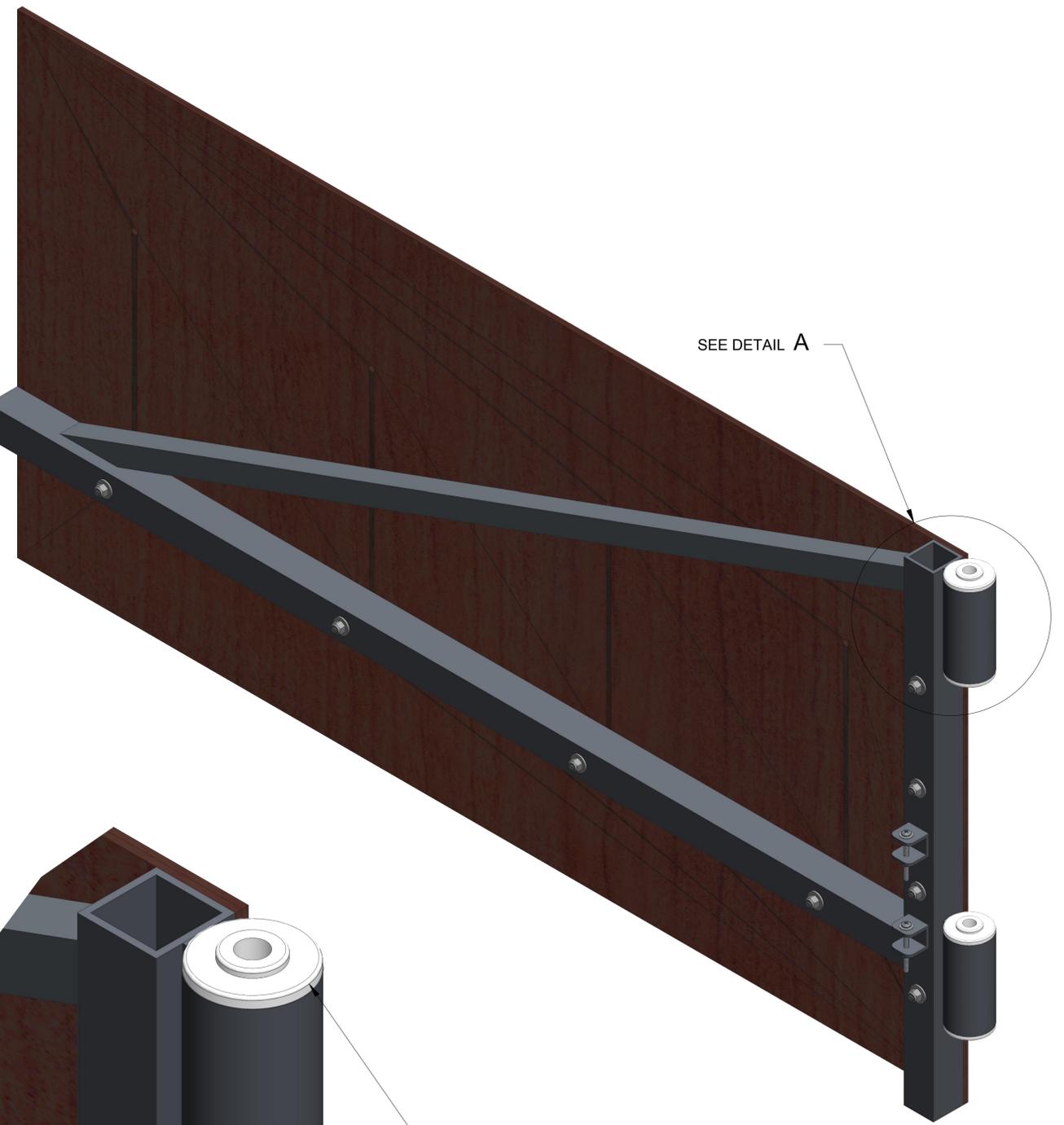
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NOTE: Place two GE-16044 parts front to back, so that the printing is sandwiched between the clear portions of the polycarbonate, also making sure that the holes line up properly.

Secure those parts to the Door Frame with 1/4"-20 hardware called out in BOM.



NOTE: Add Acetal Conveyor Bearings to the hinge. They are a tight fit, so persuasion may be necessary. 4 Places

DETAIL A
SCALE 1:1

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	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:4 SHEET 3 OF 4	
TITLE: Sally Port Door Assembly		
PROJECT	MODEL NAME	ISSUE
GE-16038		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
XXX +/- 0.1
XXX +/- 0.01
XXX +/- 0.001
ANG +/- 1
DO NOT SCALE

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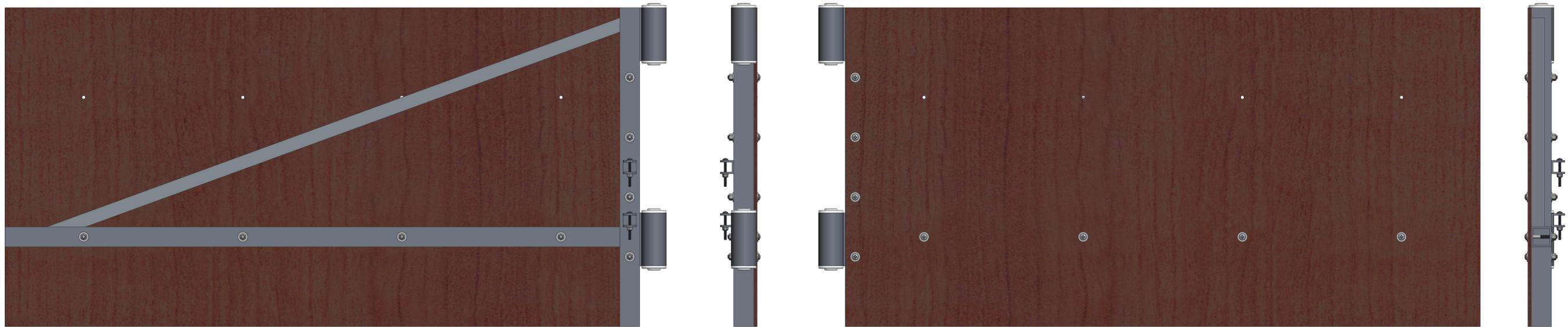
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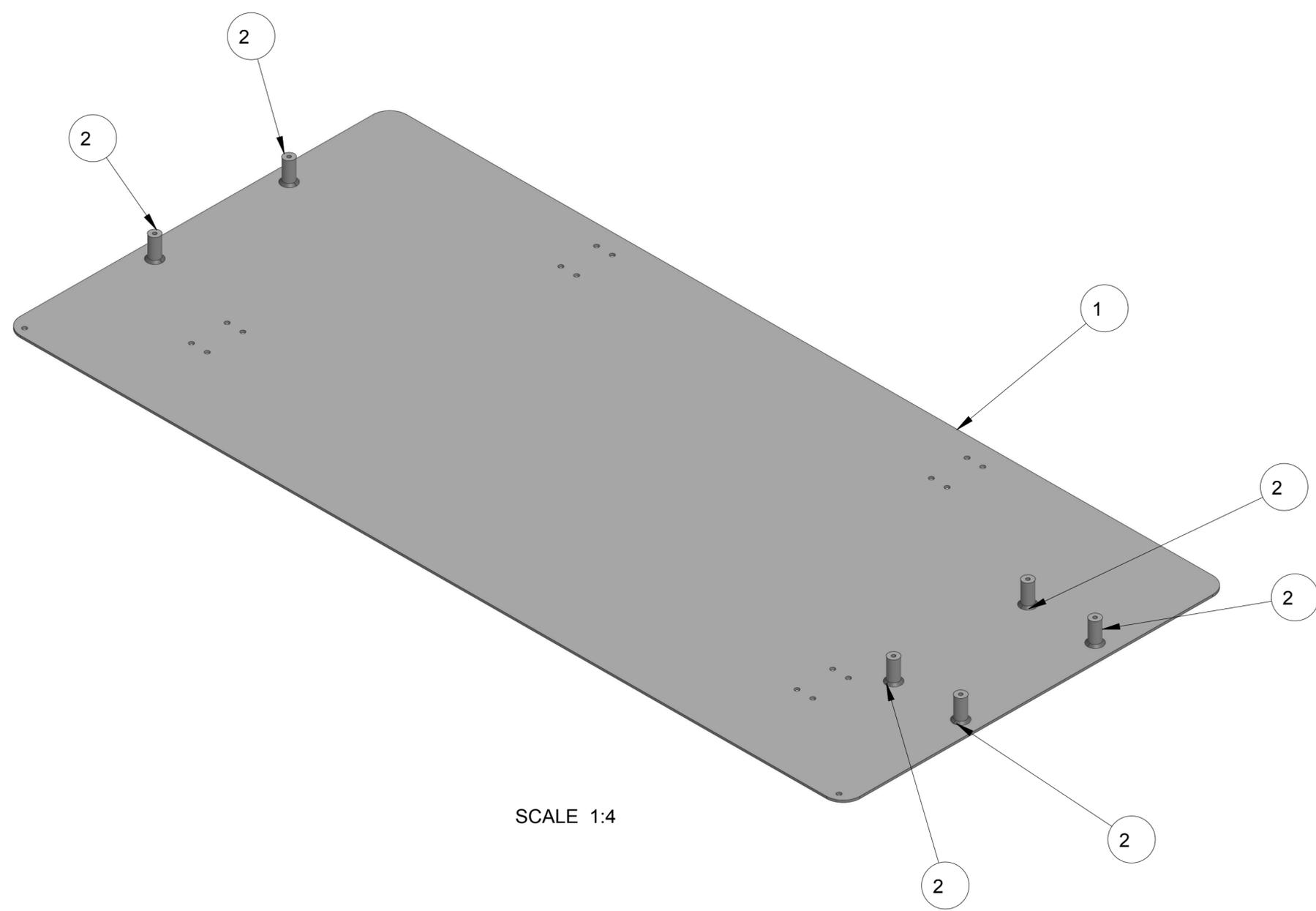


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	<p>SCALE 1:4</p>	<p>SHEET 4 OF 4</p>
	<p>TITLE: Sally Port Door Assembly</p>	
	<p>PROJECT: _____</p>	<p>MODEL NAME: GE-16038</p>

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SCALE 1:4

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	base	See Drawing for Base
2	GE-16039-01	6	standoff	.625" Diameter Steel Rod

	DRAWN BY	DATE
	CHECKED BY	DATE
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	SCALE 17:192	SHEET 1 OF 3
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small>	TITLE: Base Weldment	
DO NOT SCALE	PROJECT	MODEL NAME: GE-16039
		ISSUE

MODEL NAME
GE-16039

TITLE
Base Weldment 1

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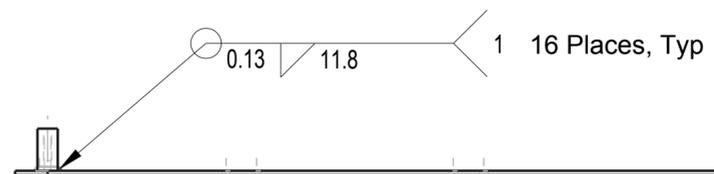
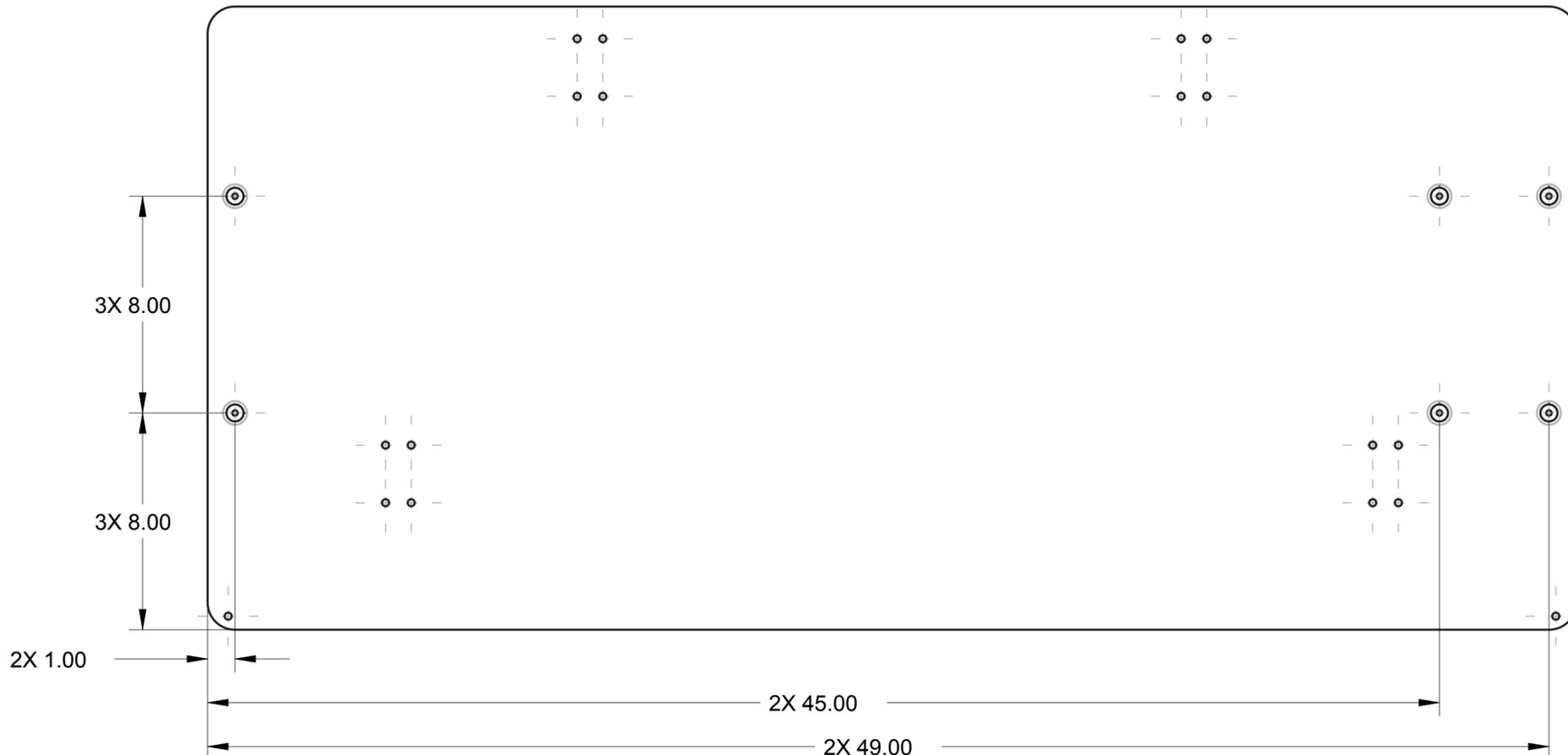
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		DRAWN BY	DATE
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		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 1:4	SHEET 2 OF 3
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 .XXXX ±0.001 ANG ±0.1		TITLE Base Weldment 1	
DO NOT SCALE		PROJECT	MODEL NAME GE-16039
			ISSUE

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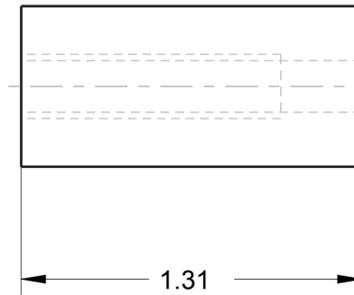
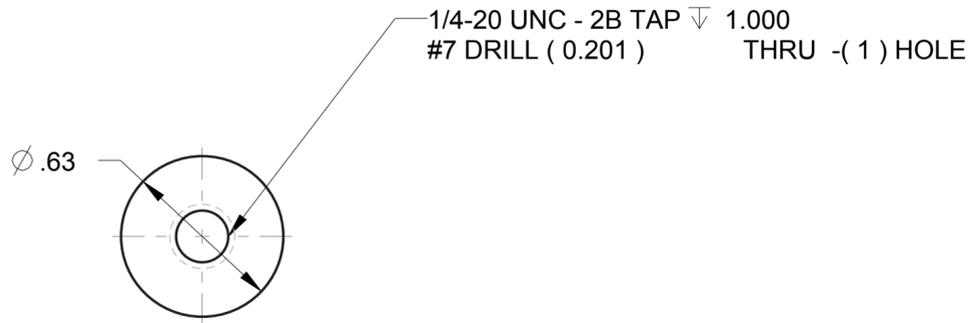
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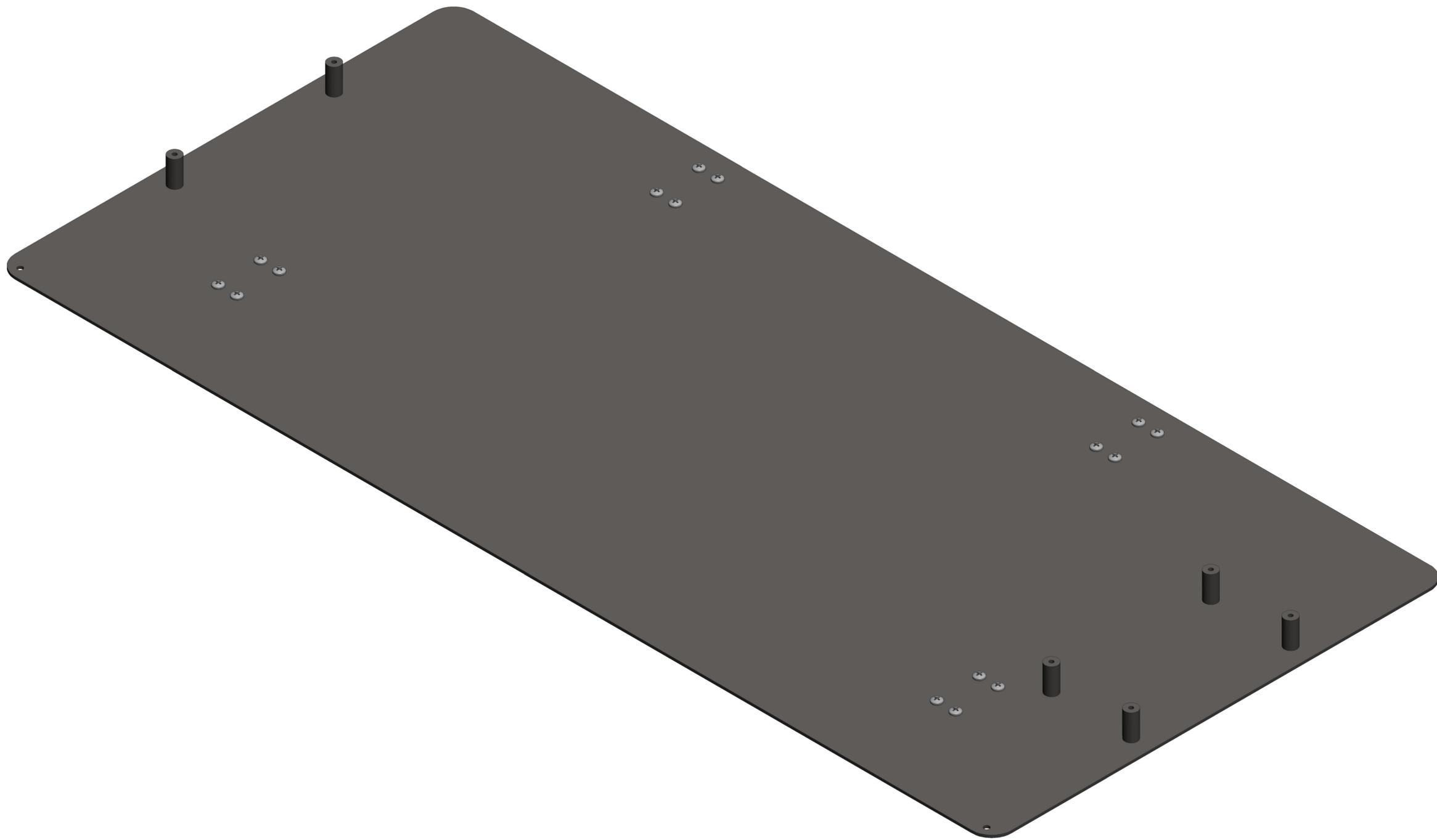
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NOTE

Part: STANDOFF
 Material: .625" Steel Round Bar
 Qty: 6
 Scale: 2:1

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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 X.XXX ±0.001 ANG ±0.1</small>		TITLE Base Weldment 1	
DO NOT SCALE		PROJECT	MODEL NAME GE-16039
			ISSUE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16039	1	sally port, base weldment	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
4	GE-16151	4	2.5" Tall Swivel Caster	Hardware
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:8 SHEET 1 OF 3	
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.001 ANG +/- 1</small>	TITLE: Sally Port Base Assembly PROJECT: GE-16040 MODEL NAME: GE-16040 ISSUE:	
DO NOT SCALE		

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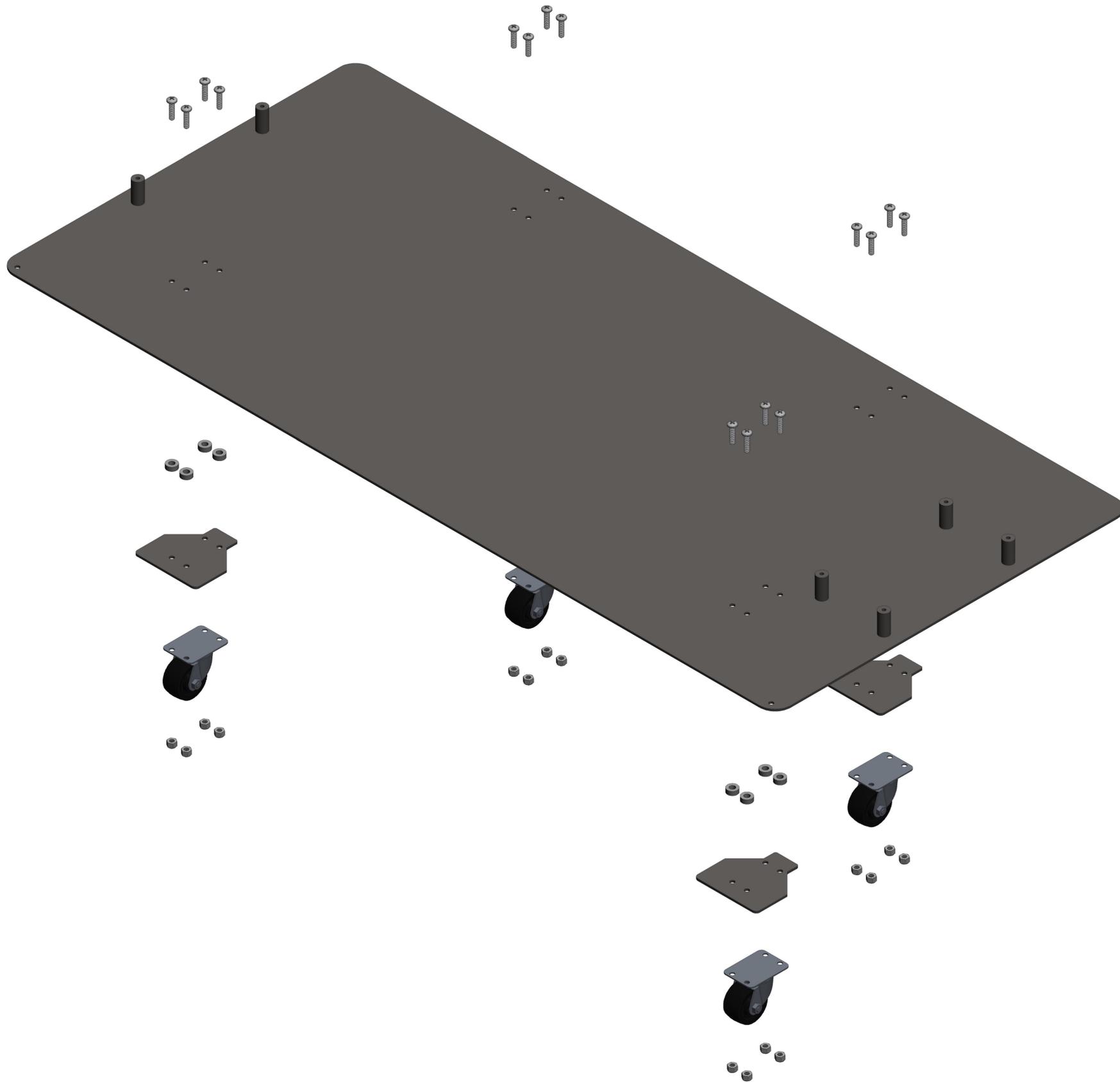
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MODEL NAME: GE-16040 TITLE: Sally Port Base Assembly



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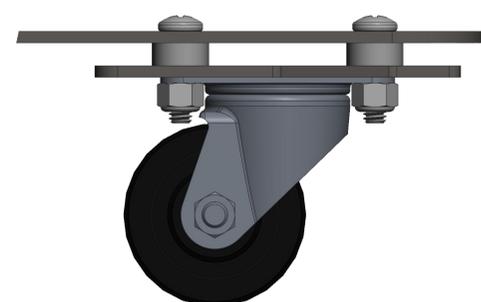
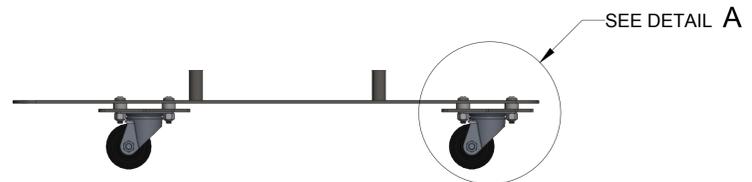
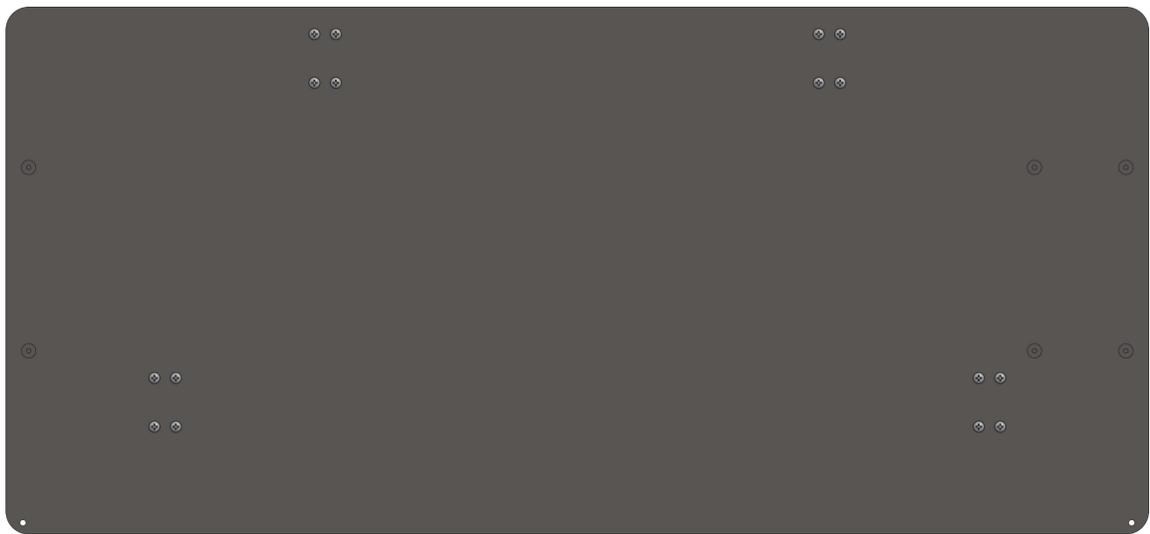
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		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1</small>		TITLE Sally Port Base Assembly	
DO NOT SCALE		SCALE 3:8	SHEET 2 OF 3
PROJECT		MODEL NAME GE-16040	ISSUE

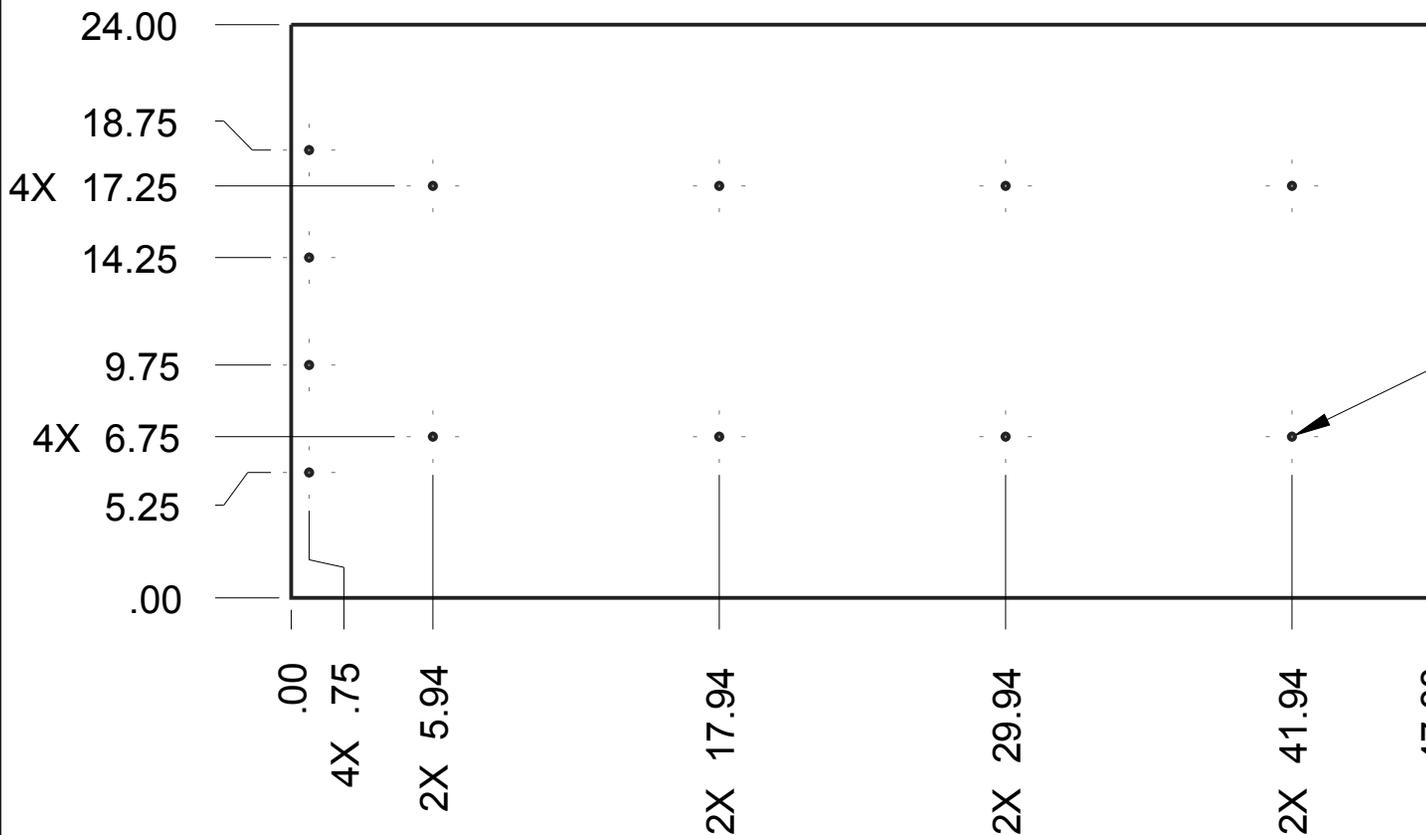
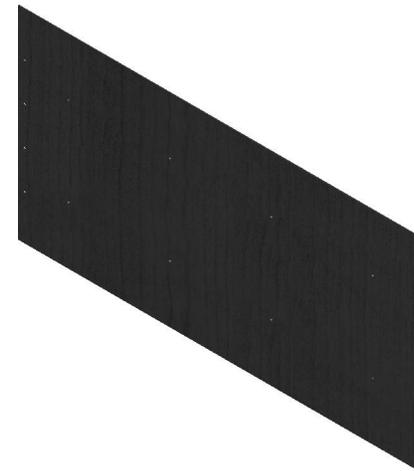
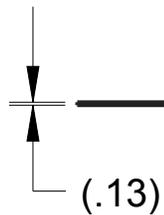


DETAIL A
SCALE 1:1

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Sally Port Base Assembly		SCALE 1:4
PROJECT		SHEET 3 OF 3 MODEL NAME GE-16040
ISSUE		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX ± 0.1 X.XXX ± 0.01 X.XXX ± 0.001 ANG ± 1 DO NOT SCALE

MODEL NAME
GE-16044

TITLE
OWD_DOOR_3



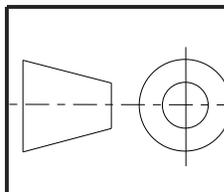
NOTE:

Material: clear polycarbonate, .125" Thick

Scale: 1:8

QTY: 1

Print to look like wood



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
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DO NOT SCALE

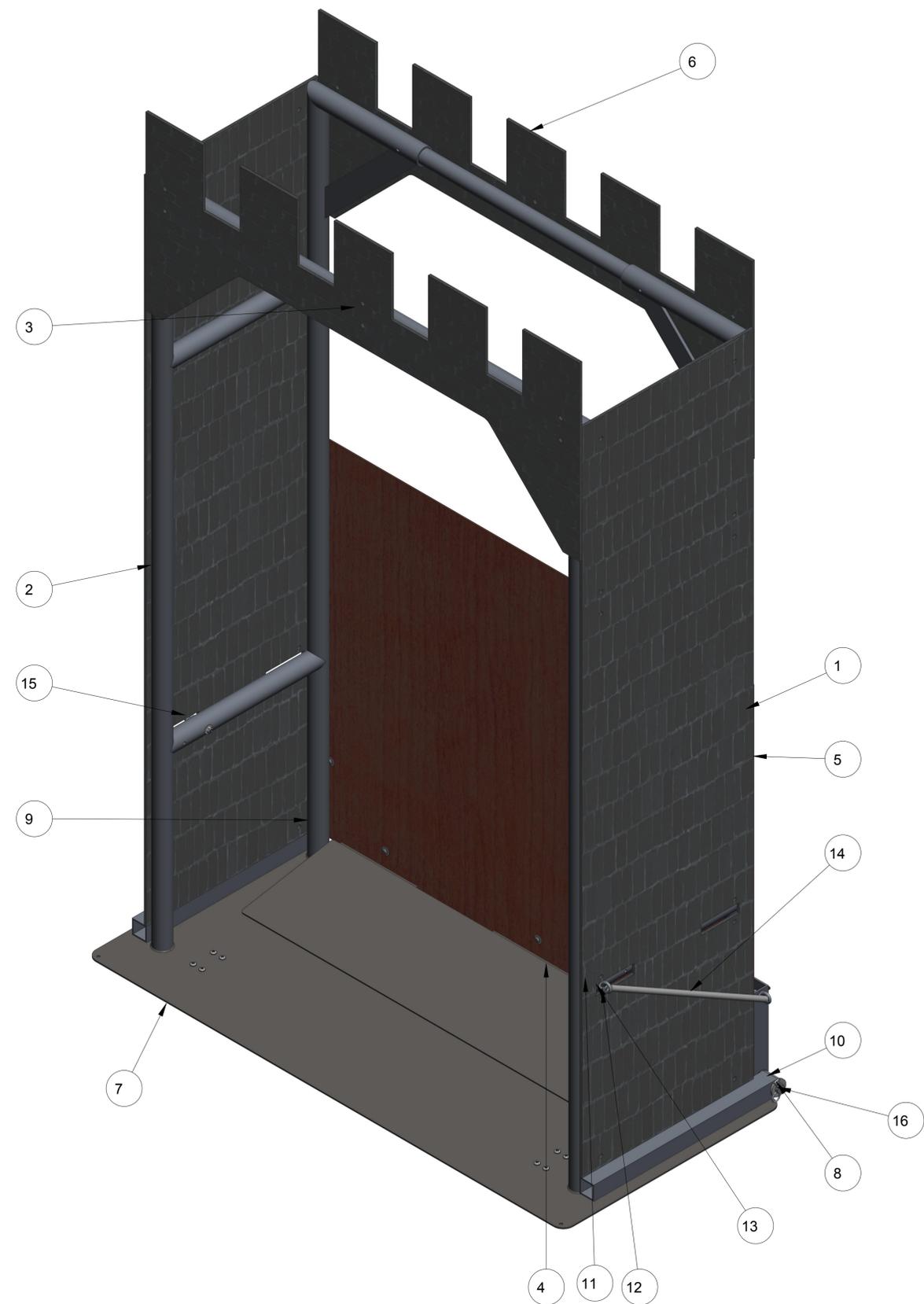


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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1

TITLE OWD_DOOR_3		
PROJECT	MODEL NAME GE-16044	ISSUE

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	Sheet 6, A-5	Added Part Numbers for Springs	NJS	1/13/16



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16046	1	side frame, drawbridge	See Drawing
2	GE-16046_LEFT	1	side frame, drawbridge, left	See Drawing
3	GE-16047	2	top bar, drawbridge	See Drawing
4	GE-16048	1	door assembly, drawbridge	See Drawing
5	GE-16049	2	side plastic, drawbridge	See Drawing
6	GE-16050	2	crenellations, drawbridge	See Drawing
7	GE-16052	1	drawbridge base assembly	See Drawing
8	GE-16173	2	Flanged Nylon Bearing, 3/4" ID, 1" OD	Hardware
9	GE-16174	4	Steel Flat Washer, .812" ID, 1.469" OD	Hardware
10	GE-16175	2	3/4" Diameter, 3 3/4" Long Clevis Pin	Hardware
11	HW-00087	2	nut, nylock 1/4-20	Hardware
12	HW-00088	4	1/4"-20 Washer	Hardware
13	HW-00094	2	eye bolt, 1/4-20 x 2"	Hardware
14	HW-00099	1	Extension Screen Door Spring, 15"-18 1/2"	2 Oval Threaded Connectors, 3/16" Diam
15	HW-00100	1	Screen Door Spring, 16-3/8" Long	2 Oval Threaded Connectors, 3/16" Diam
16	HW-00101	2	Cotter Pin, Hairpin, 3/4" Pin Diameter	Hardware

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± .01 XXXX ± .001 ANG ± .1</small>	
TITLE: Drawbridge Assembly		SCALE 3:16
PROJECT:		SHEET 1 OF 6
MODEL NAME: GE-16045		ISSUE
DO NOT SCALE		

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MODEL NAME: GE-16045 TITLE: Drawbridge Assembly

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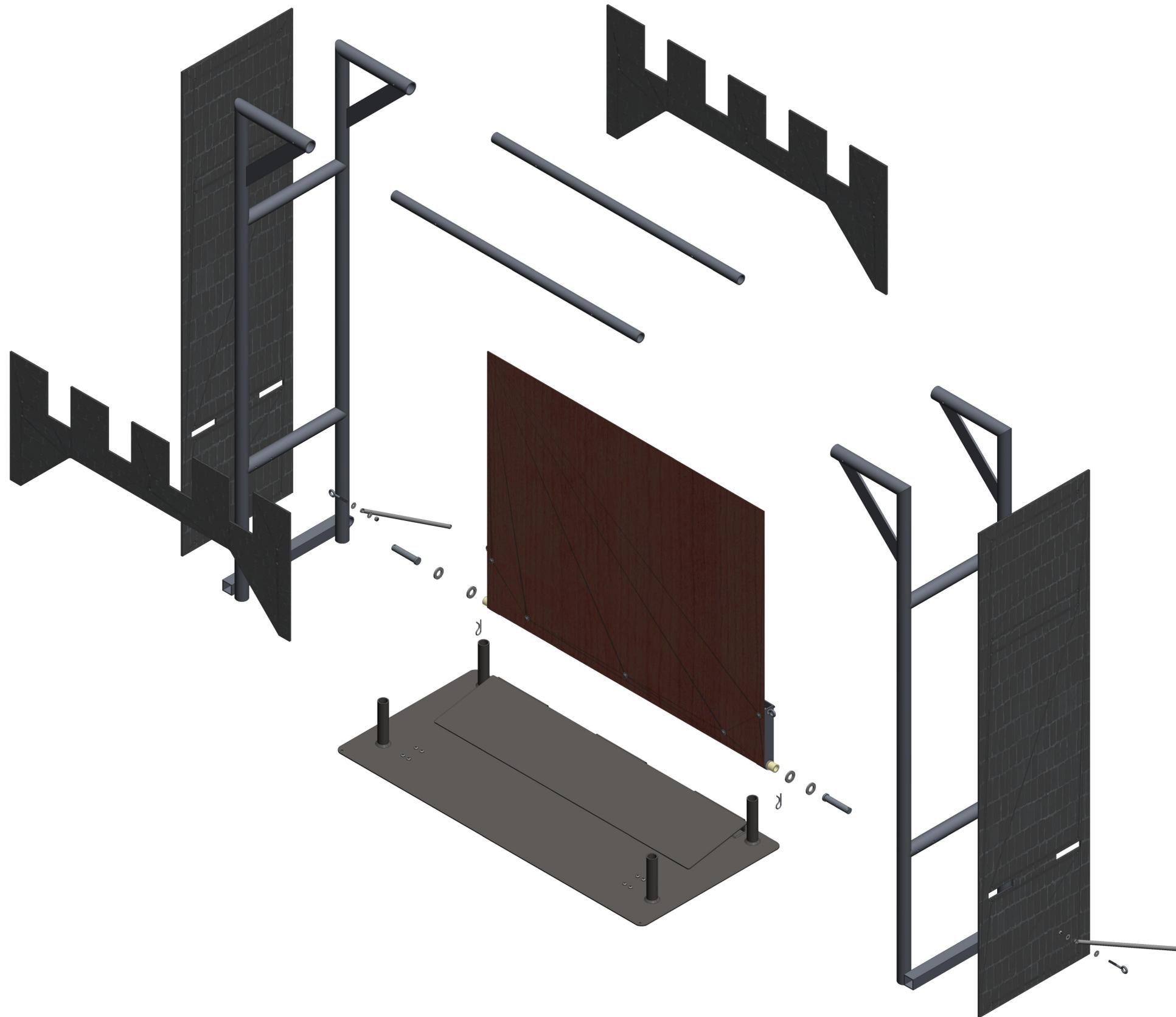
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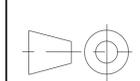
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 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1 DO NOT SCALE</p>		DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
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<p>TITLE: Drawbridge Assembly</p>		PROJECT	ISSUE
		MODEL NAME: GE-16045	

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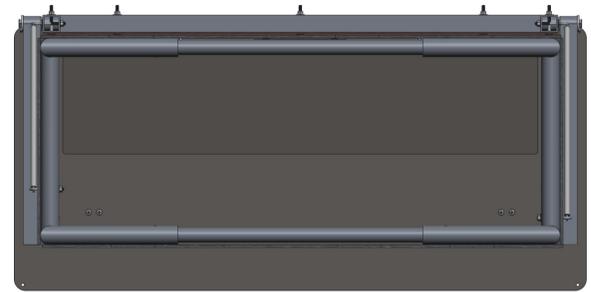
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MODEL NAME: GE-16045 TITLE: Drawbridge Assembly

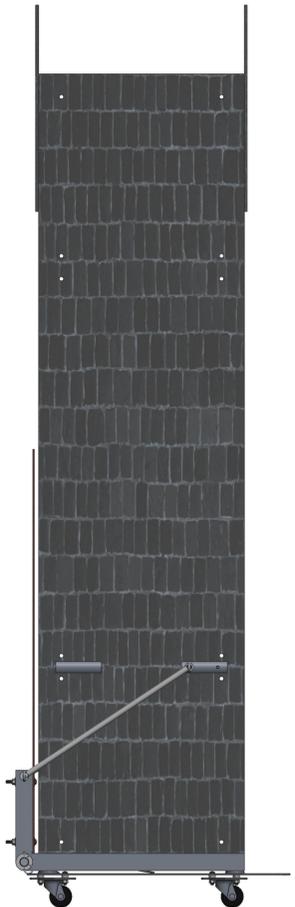
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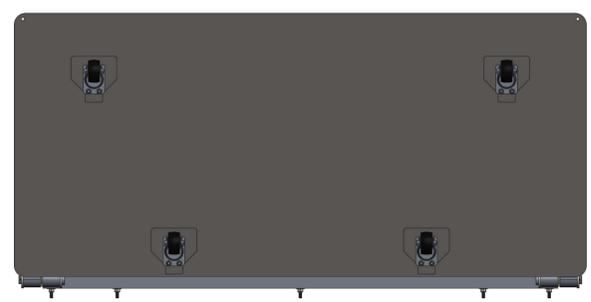
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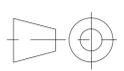
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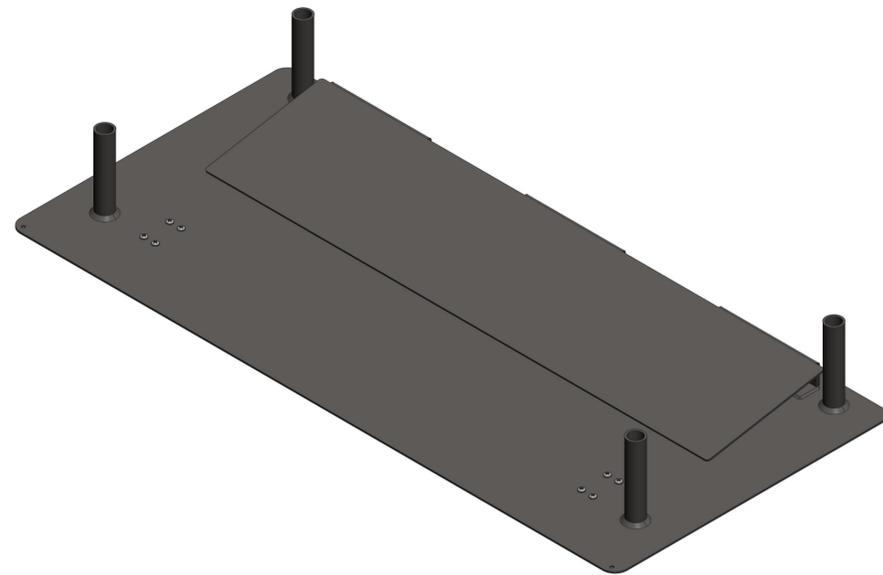
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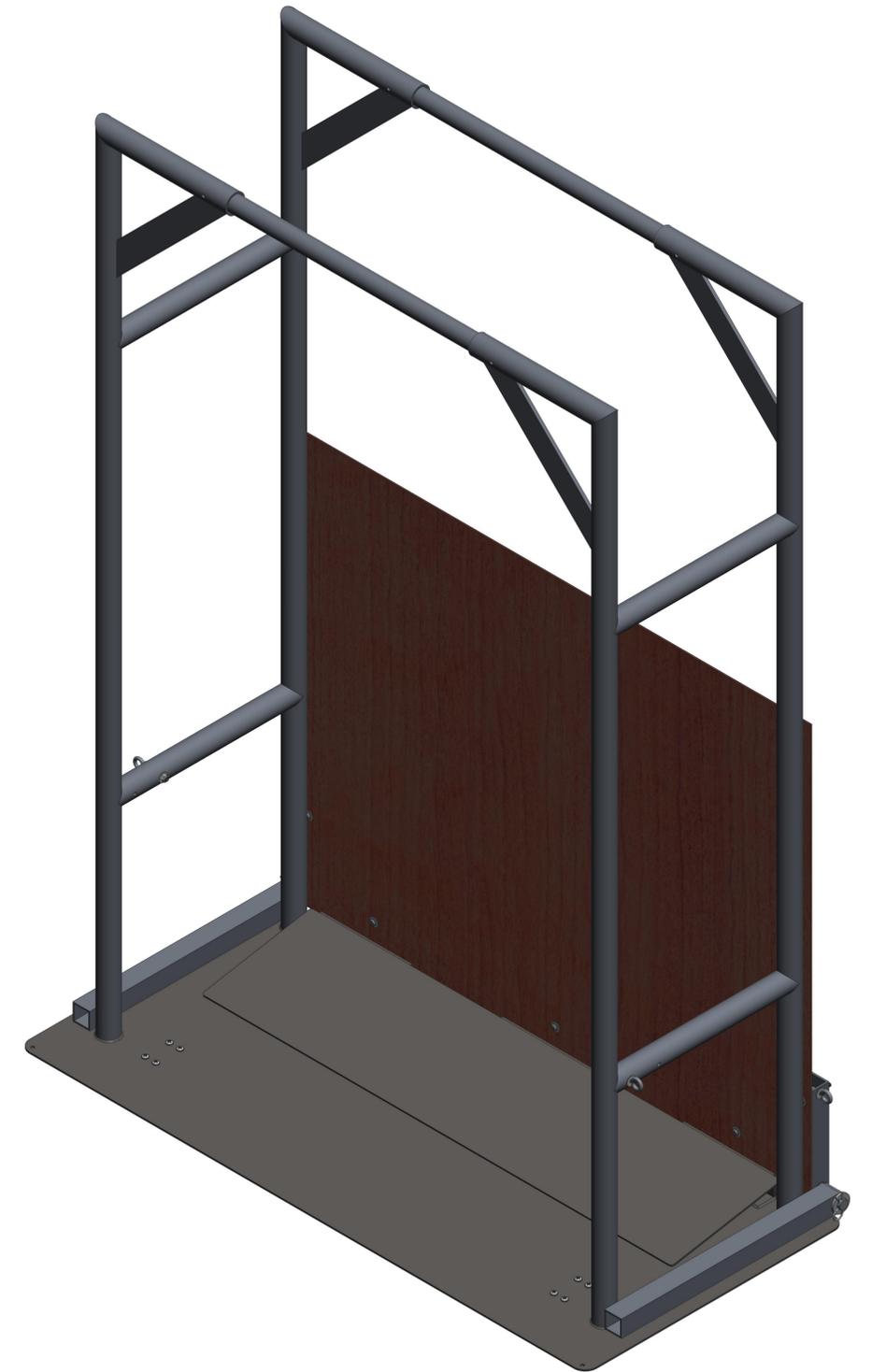
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		CHECKED BY	DATE
		APPROVED BY	DATE
		<p>SCALE 3:16 SHEET 3 OF 6</p>	
<p>TITLE: Drawbridge Assembly</p>		MODEL NAME	ISSUE
<p>PROJECT</p>		GE-16045	



NOTE: Be sure the ramp is properly installed and secured using 1/4"-20 hardware

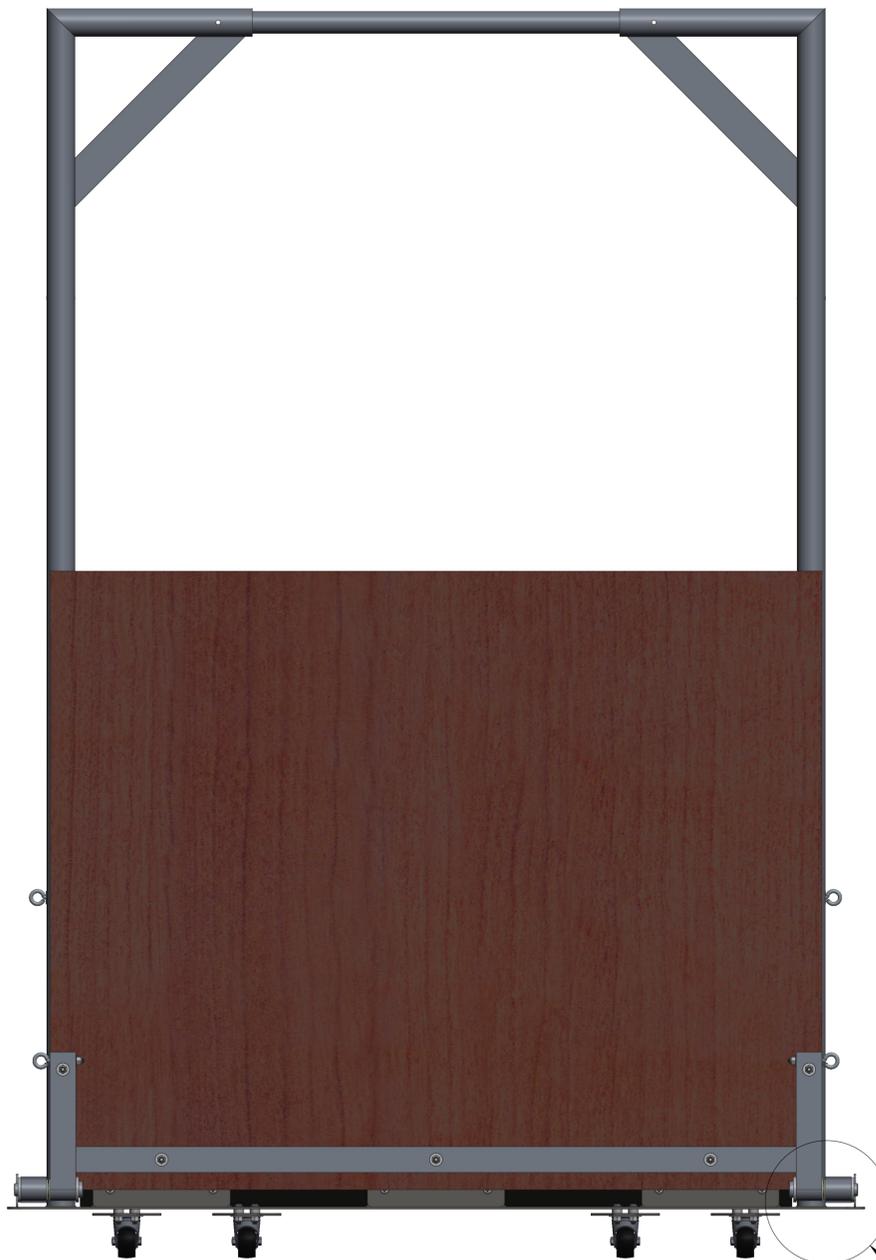


NOTE: Put the Drawbridge Top Bars into the Drawbridge Side Frames as shown. Slide the Side Frames onto the pegs of the Drawbridge Base, making sure that the hinges are oriented as shown.

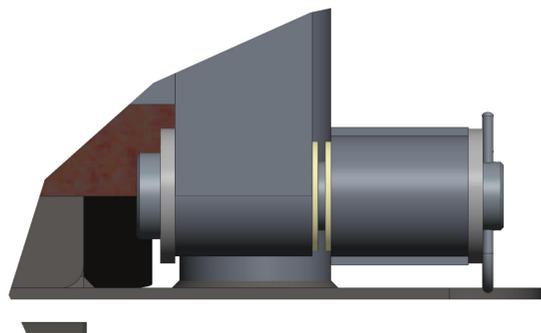


NOTE: Line up the hinges on the door with the hinges on the Side Frame. Place the Clevis Pin and Bushings through the hinges, securing them with the hairpin. See detailed images on the next page for more clarification.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.001 ANG +/- 1</small>	
TITLE: Drawbridge Assembly		SCALE 3:16 SHEET 4 OF 6
PROJECT:		MODEL NAME: GE-16045
DO NOT SCALE		ISSUE:



SEE DETAIL A



DETAIL A
SCALE 1:1

NOTE: The order in which the components are placed is shown in Detail A.



NOTE: Secure the decorate Polycarbonate with cable ties as shown.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 3:16 SHEET 5 OF 6	
TITLE: Drawbridge Assembly		
PROJECT		ISSUE
MODEL NAME		GE-16045

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX +/- 0.1
 XXXX +/- 0.01
 XXXX +/- 0.001
 ANG +/- 1
 DO NOT SCALE

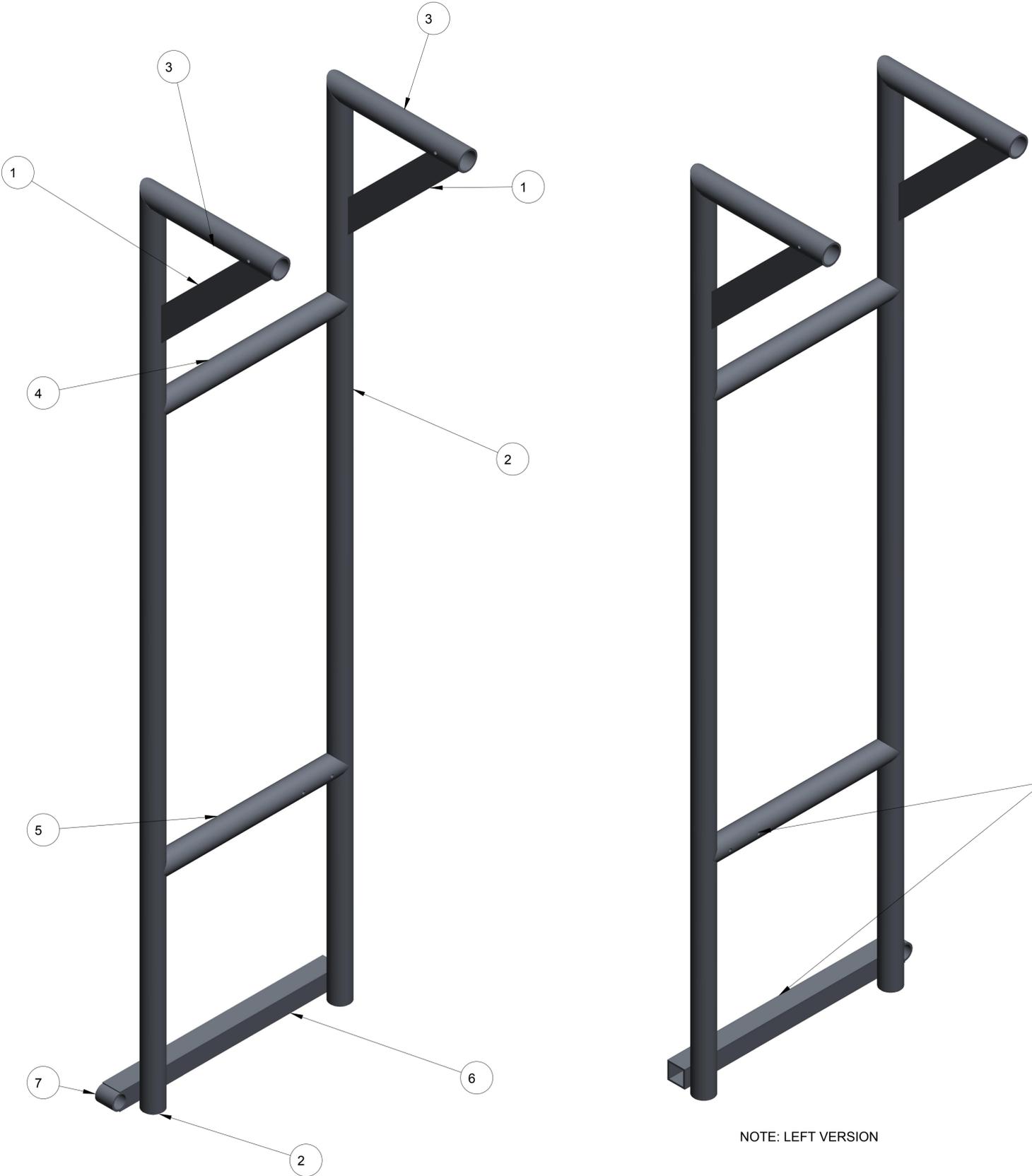


NTOE: Using the Threaded Connectors (2 per side), connect the Drawbridge Side Frames to the Drawbridge Door. Be sure that the Door falls when pushed to the ground, but also be sure that it returns on its own when no other force is applied to the door.

- ▲ 1 - Screen Door Spring, 16-3/8" Long - McMaster-Carr 9629K7
- 1 - Extension Screen Door Spring, 15"-18 1/2" - McMaster-Carr 1474A11
- 4 - Oval Threaded Connector, 3/16" Diameter - McMaster-Carr 8947T25

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 ANG ± 1</small> DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE Drawbridge Assembly		MODEL NAME	ISSUE
		GE-16045	

1 2 3 4 5 6 7 8



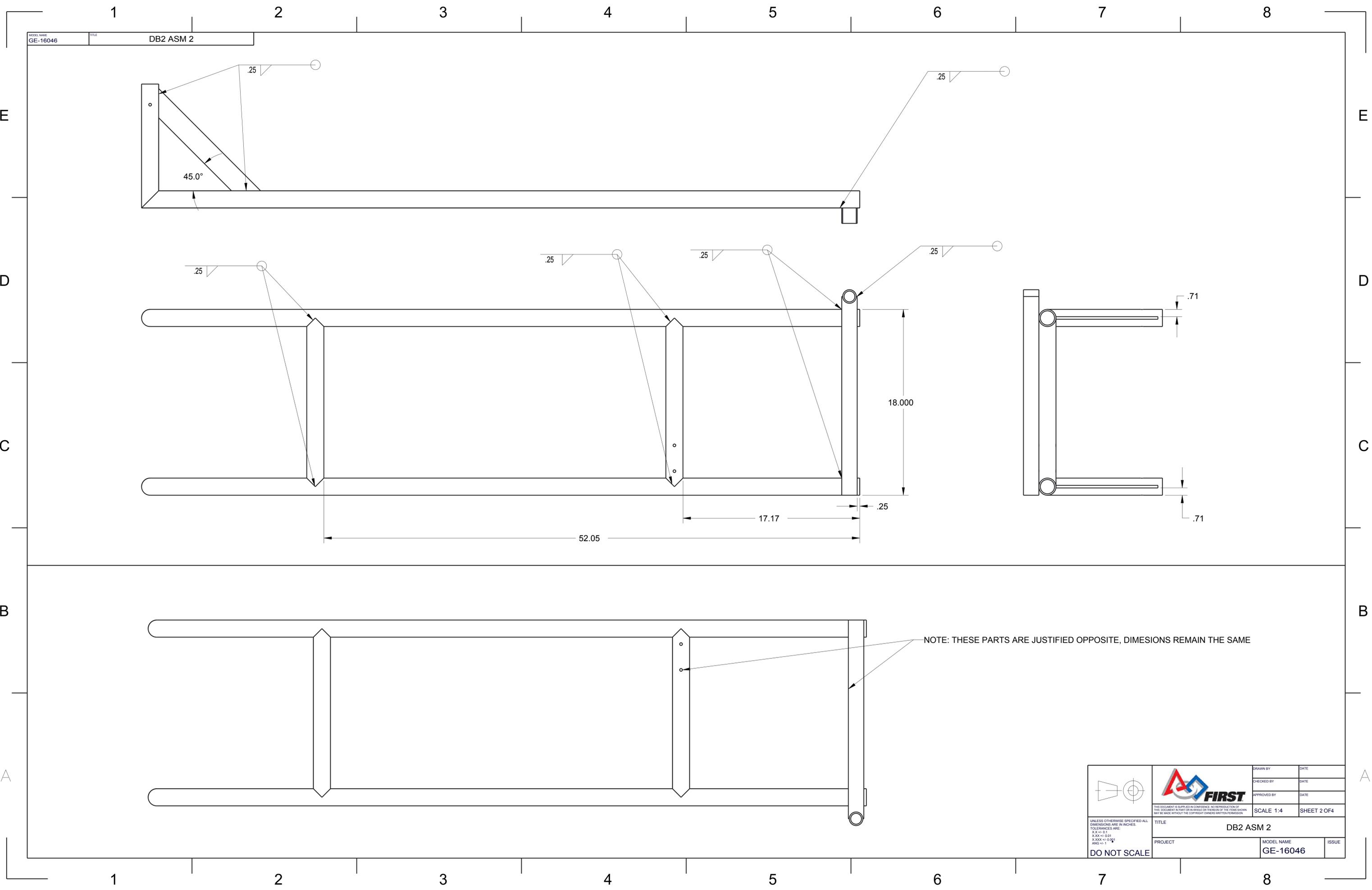
NOTE: THESE PARTS JUSTIFIED OPPOSITE IN LEFT VERSION

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	DB10	2	DB pt 10	5052 Aluminum Sheet, .25" Thick
2	DB2_3	2	DB2 pt 3	1.25" Aluminum Schedule 40 Pipe
3	DB2_4	2	db2_4.prt	1.25" Aluminum Schedule 40 Pipe
4	DB2_7	1	db2_7.prt	1.25" Aluminum Schedule 40 Pipe
5	DB2_7_ALT	1	DB2_7_ALT	1.25" Aluminum Schedule 40 Pipe
6	DB2_8	1	DB2 pt 8	1.5" Aluminum Square Tubing, .125" Wall
7	DB2_9	1	DB2_9	1.25" Aluminum Schedule 40 Pipe

NOTE: LEFT VERSION

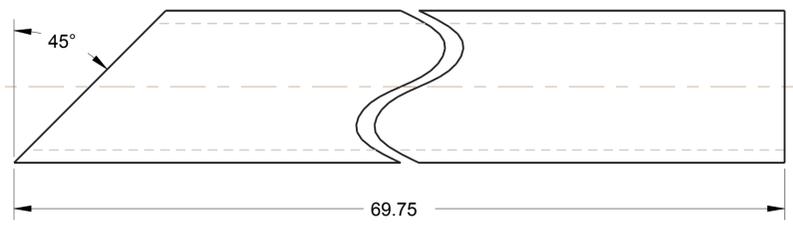
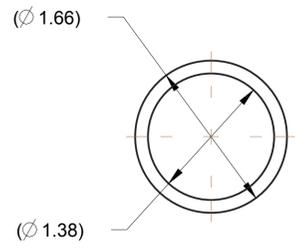
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TITLE	DB2 ASM 2	
PROJECT	MODEL NAME	ISSUE
DO NOT SCALE	GE-16046	

1 2 3 4 5 6 7 8

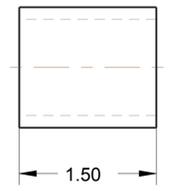
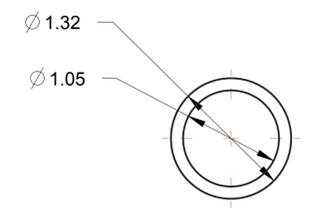


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	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>	
TITLE DB2 ASM 2		SCALE 1:4
PROJECT		ISSUE SHEET 2 OF 4
MODEL NAME GE-16046		ISSUE

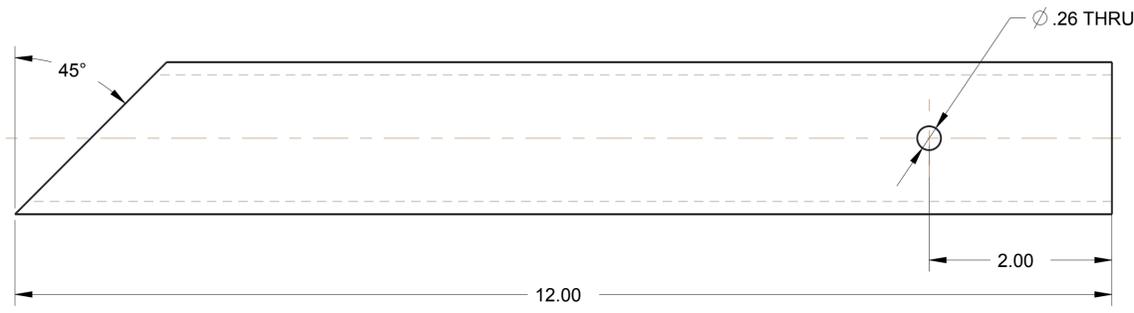
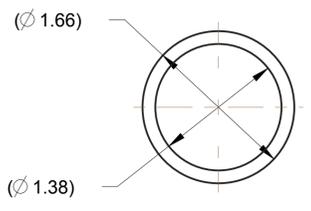
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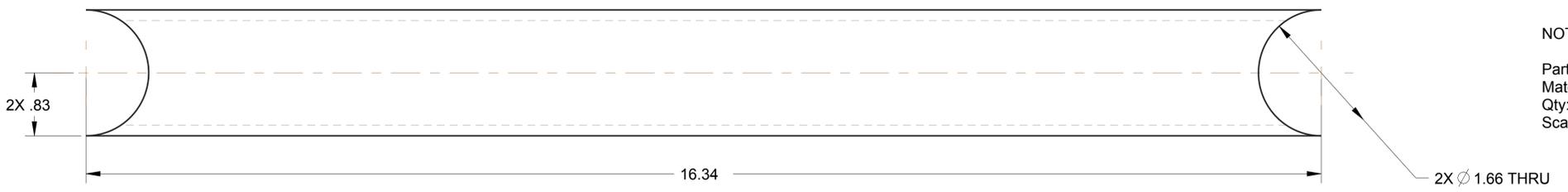
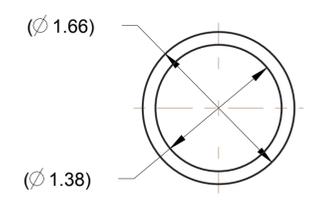
NOTE
 Part: DB2_3
 Material: 1.25" Aluminum Schedule 40 Pipe
 Qty: 2
 Scale 1:1



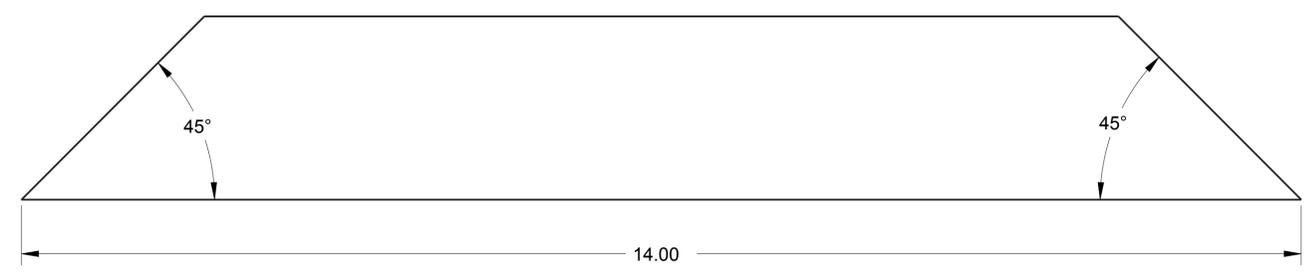
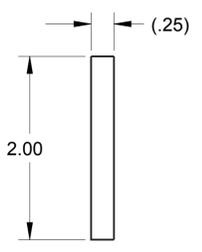
NOTE
 Part: DB2_9
 Material: 1" Aluminum Schedule 40 Pipe
 Qty: 2
 Scale 1:1



NOTE
 Part: DB2_4
 Material: 1.25" Aluminum Schedule 40 Pipe
 Qty: 2
 Scale 1:1



NOTE
 Part: DB2_7
 Material: 1.25" Aluminum Schedule 40 Pipe
 Qty: 1
 Scale 1:1

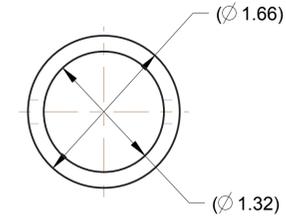
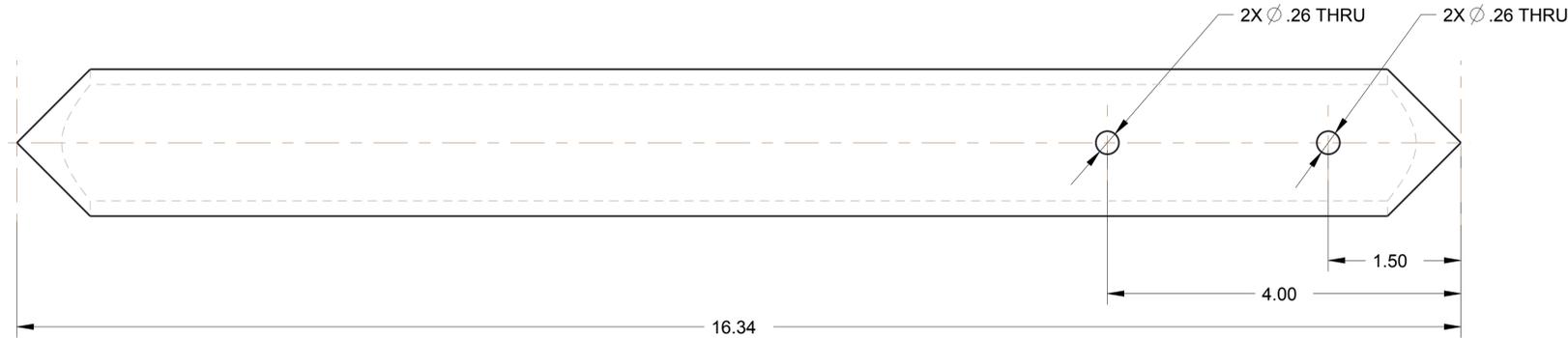


NOTE
 Part: DB2_10
 Material: 5052 Aluminum Sheet, .25" Thick
 Qty: 2
 Scale 1:1

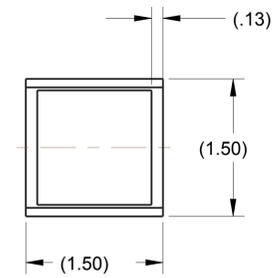
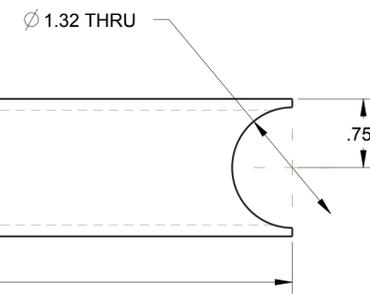
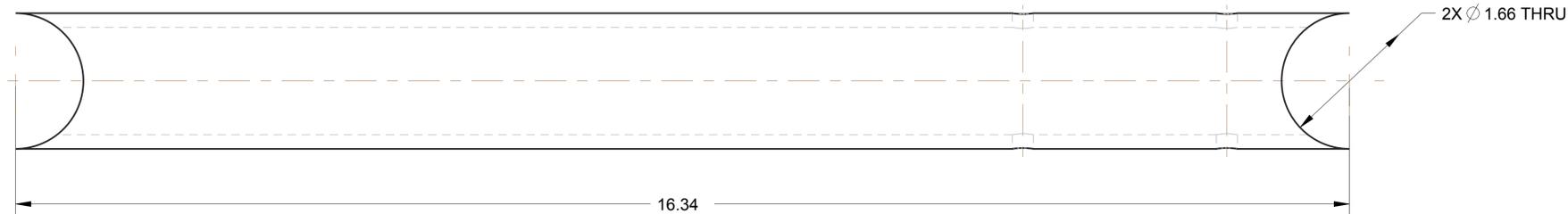
	DRAWN BY	DATE
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	APPROVED BY	DATE
	SCALE 1:4 SHEET 3 OF 4	
TITLE: DB2 ASM 2		
PROJECT:		MODEL NAME: GE-16046
ISSUE:		ISSUE:

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± .01
 XXXX ± .001
 ANG ± .1

DO NOT SCALE



NOTE
 Part: DB2_7_ALT
 Material: 1.25" Aluminum Schedule 40 Pipe
 Qty: 1
 Scale 1:1

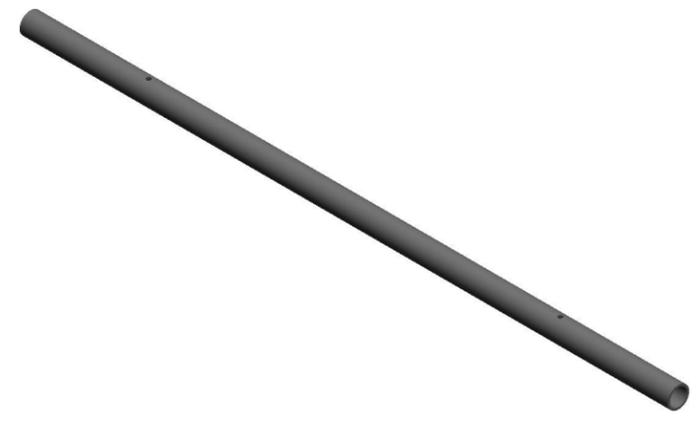
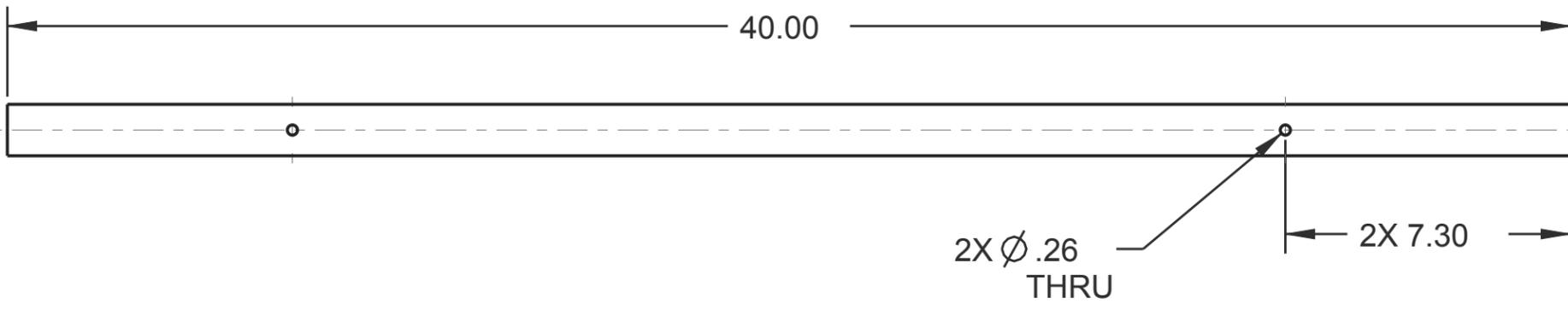


NOTE
 Part: DB2_8
 Material: 1.5" Aluminum Square Tubing, .125" Wall
 Qty: 1
 Scale 1:1

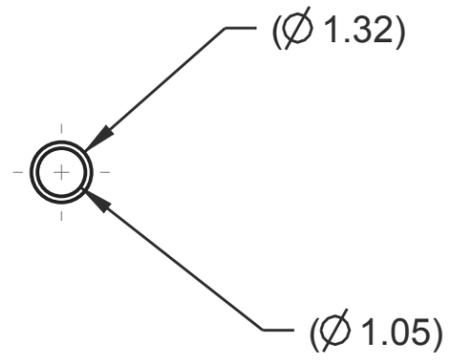
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TITLE DB2 ASM 2		SCALE 1:4	SHEET 4 OF 4
PROJECT		MODEL NAME GE-16046	ISSUE
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± .01 XXXX ± .001 ANG ± .1 DO NOT SCALE			

MODEL NAME
GE-16047

TITLE
TOP BAR DB



SCALE 1:8

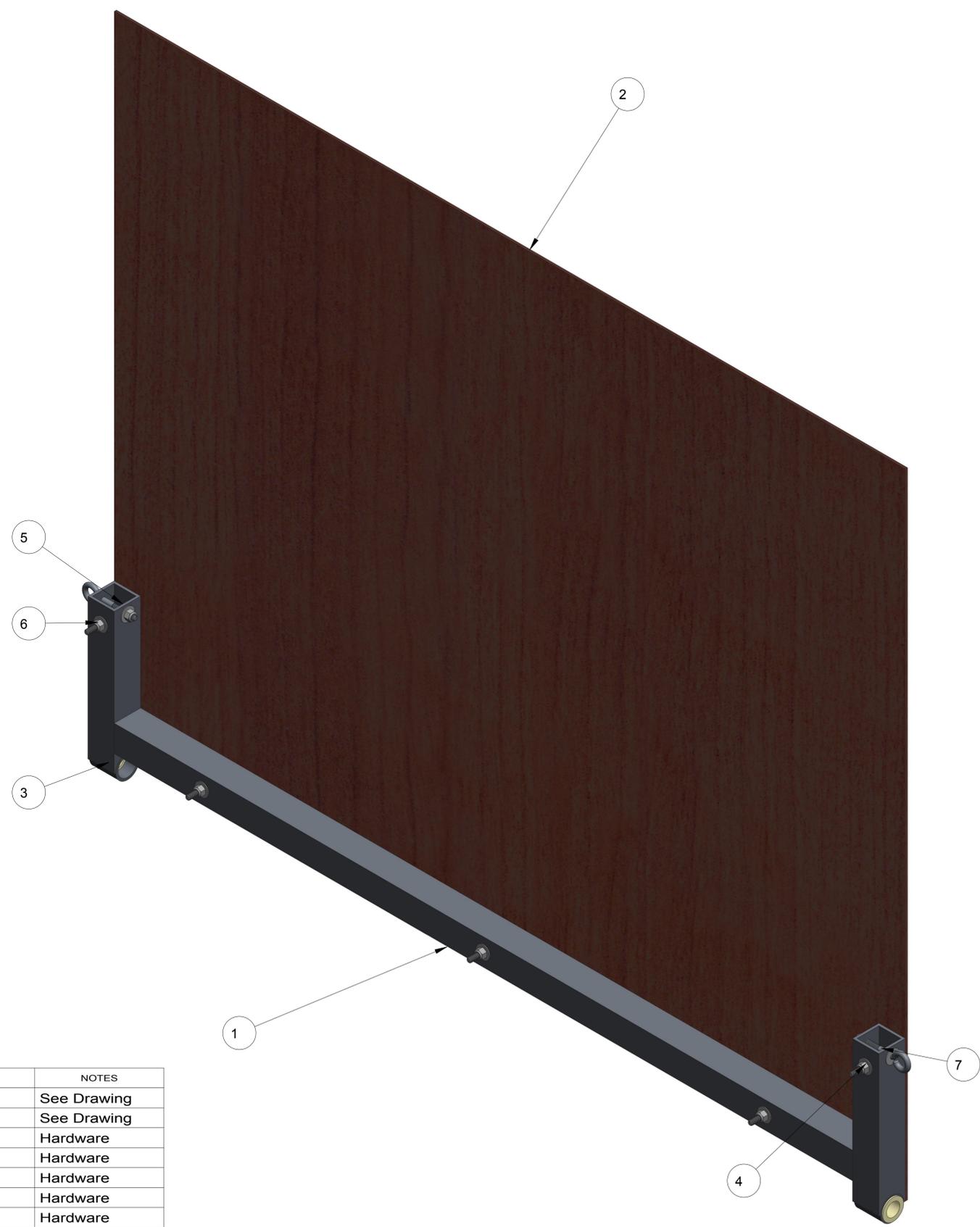


NOTES:
 1. MATERIAL: 1-1/4" SCHEDULE 40 PIPE, 6061 ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES.

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	SCALE 1:4	SHEET 1 OF 1
TITLE TOP BAR DB		
PROJECT	MODEL NAME GE-16047	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16171	1	DOOR FRAME, DRAWBRIDGE	See Drawing
2	GE-16172	1	door plastic, drawbridge	See Drawing
3	GE-16173	2	Flanged Nylon Bearing, 3/4" ID, 1" OD	Hardware
4	HW-00087	7	nut, nylock 1/4-20	Hardware
5	HW-00088	14	1/4"-20 Washer	Hardware
6	HW-00089	5	1/4"-20 Machine Screw, 2.5" Long	Hardware
7	HW-00094	2	eye bolt, 1/4-20 x 2"	Hardware

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	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXXX +/- 0.001 ANG +/- 1</small>	
TITLE DOOR ASSEMBLY, DRAWBRIDGE		SCALE 3:8
PROJECT		MODEL NAME GE-16048 ISSUE
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MODEL NAME: GE-16048 TITLE: DOOR ASSEMBLY, DRAWBRIDGE

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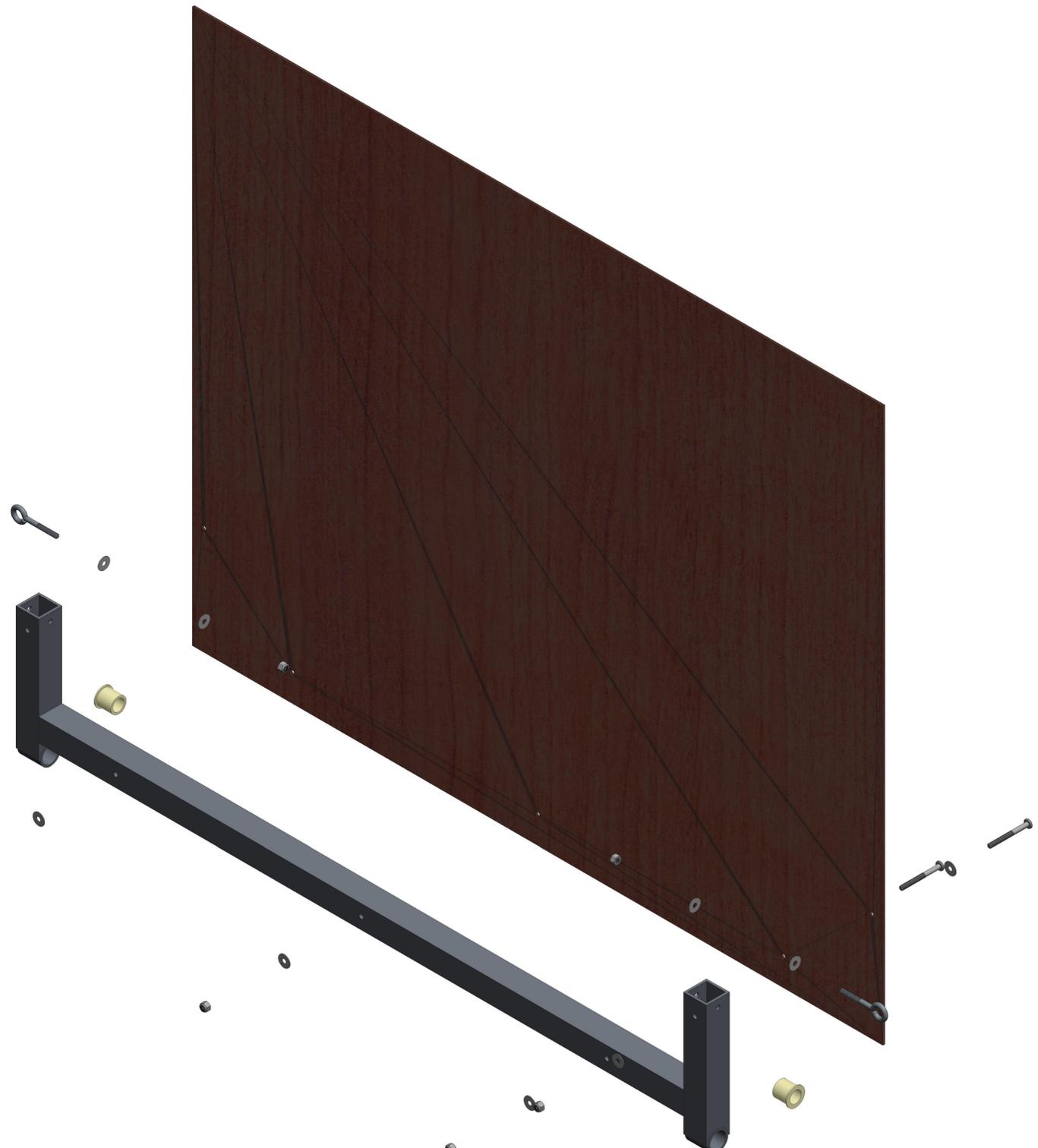
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>		TITLE: DOOR ASSEMBLY, DRAWBRIDGE SCALE: 5:16 SHEET 2 OF 4	
PROJECT:		MODEL NAME: GE-16048	ISSUE:
DO NOT SCALE			

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MODEL NAME: GE-16048 TITLE: DOOR ASSEMBLY, DRAWBRIDGE

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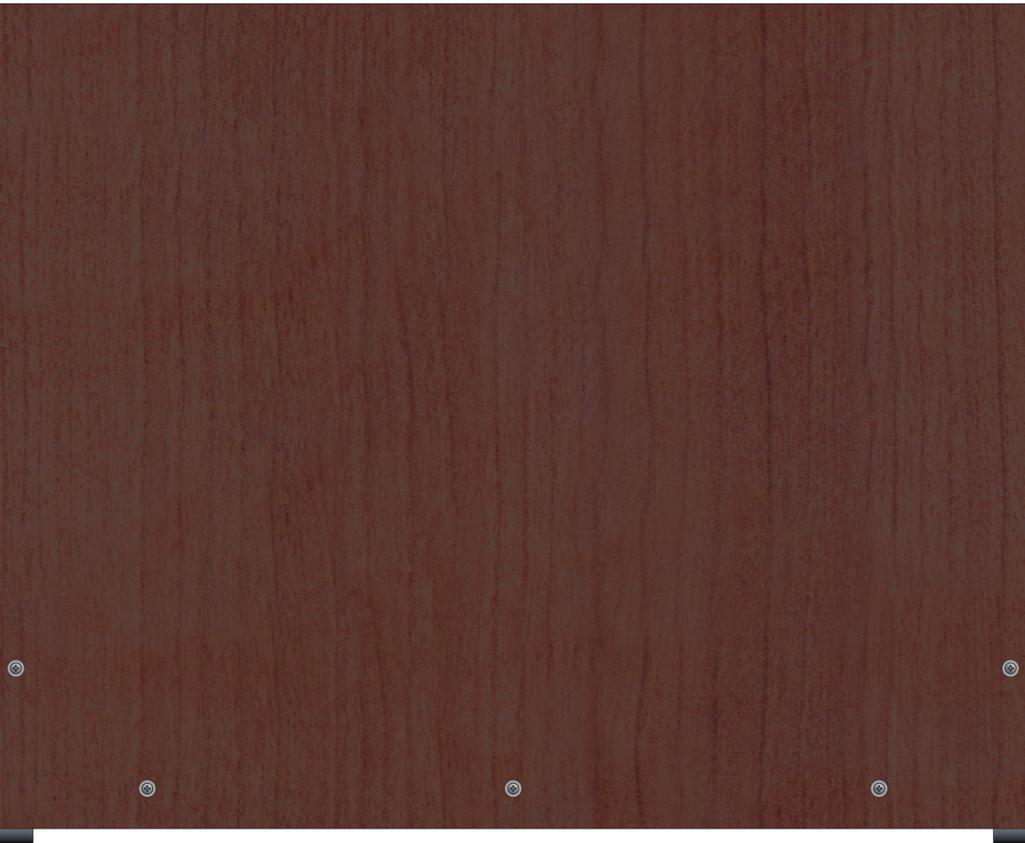
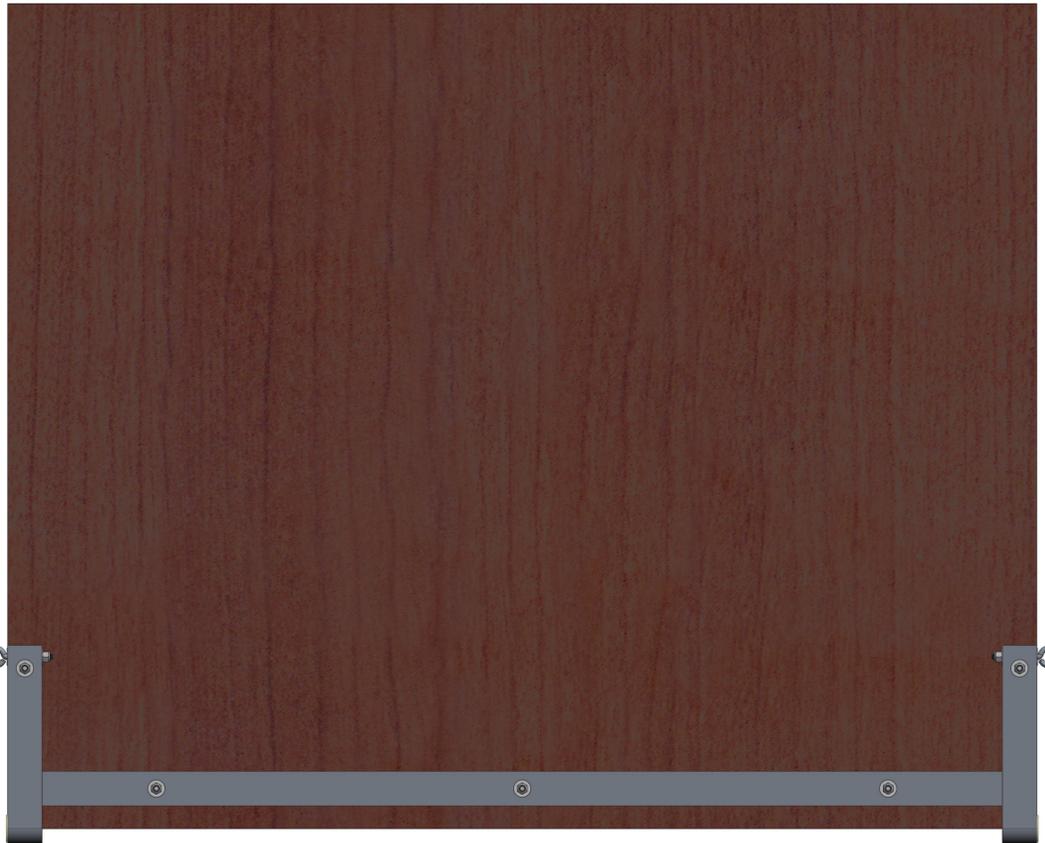
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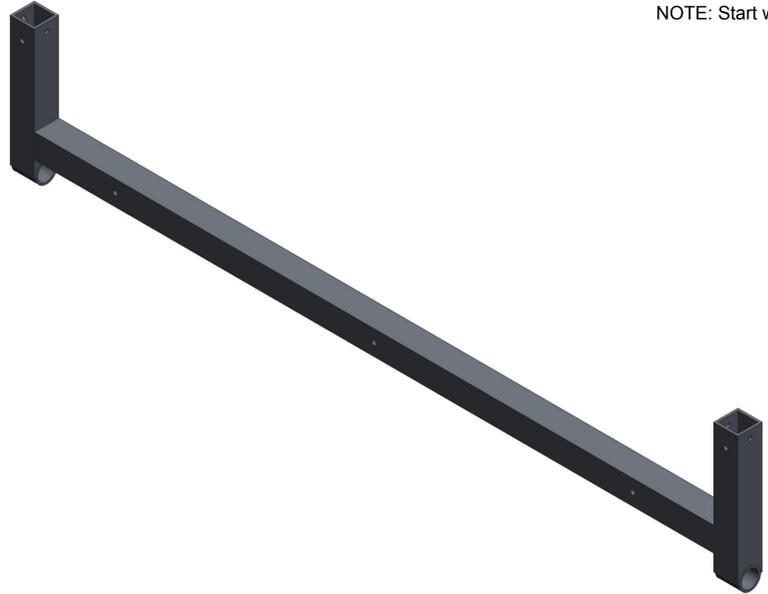
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE			DRAWN BY	DATE
			CHECKED BY	DATE
			APPROVED BY	DATE
			SCALE 3:8	SHEET 3 OF 4
TITLE		DOOR ASSEMBLY, DRAWBRIDGE		
PROJECT		MODEL NAME	ISSUE	
		GE-16048		

NOTE: Start with the Drawbridge Door Welded Frame



NOTE: Place Polycarbonate Door so that the holes line up with the Welded Door Frame.



NOTE: Add 1/4"-20 Hardware to the assembly.



NOTE: The real FRC Field will have two pieces of .125" Polycarbonate positioned back-to-back for aesthetic purposes only. They will be secured such that the differences don't alter game-play, or the function of the Drawbridge.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:4 SHEET 4 OF 4	
TITLE DOOR ASSEMBLY, DRAWBRIDGE		
PROJECT		MODEL NAME
		GE-16048
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
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 ANG +/- 1
 DO NOT SCALE

MODEL NAME
GE-16049

TITLE
DRAWBRIDGE SIDE POLY

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68.00
2X 66.00

2X 52.13
2X 50.13

2X 17.25
16.75
15.75
2X 15.25

2X 1.00
.00

18.00
16.50
6X 16.00
12.50

5.50
6X 2.00
1.50
.00

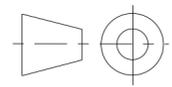
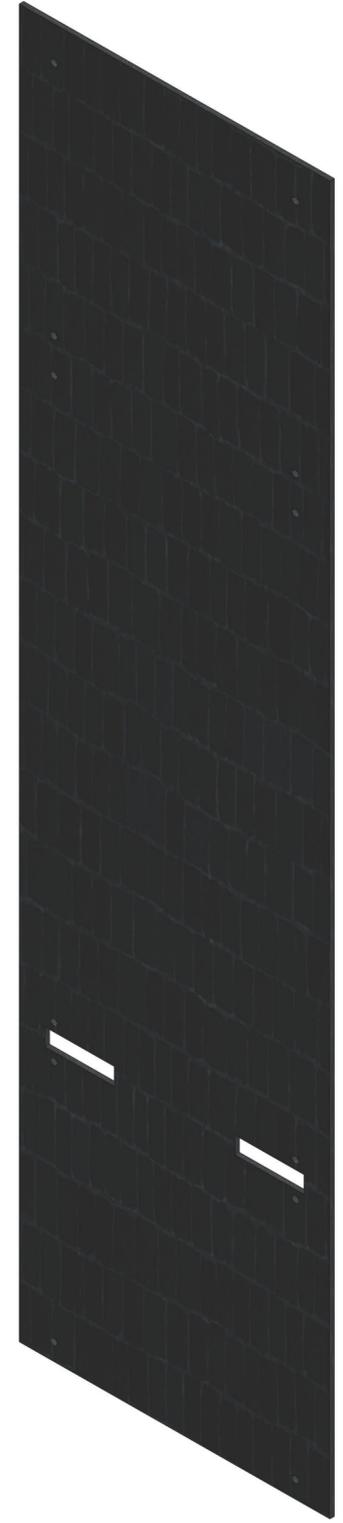
12X \varnothing .38 Thru

(.25)

NOTE:

Material: Clear Polycarbonate, .25" Thick
Scale 3:16
Qty: 1

Print to look like stone.



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 3:16	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
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DO NOT SCALE

TITLE DRAWBRIDGE SIDE POLY		
PROJECT	MODEL NAME GE-16049	ISSUE

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MODEL NAME
GE-16050

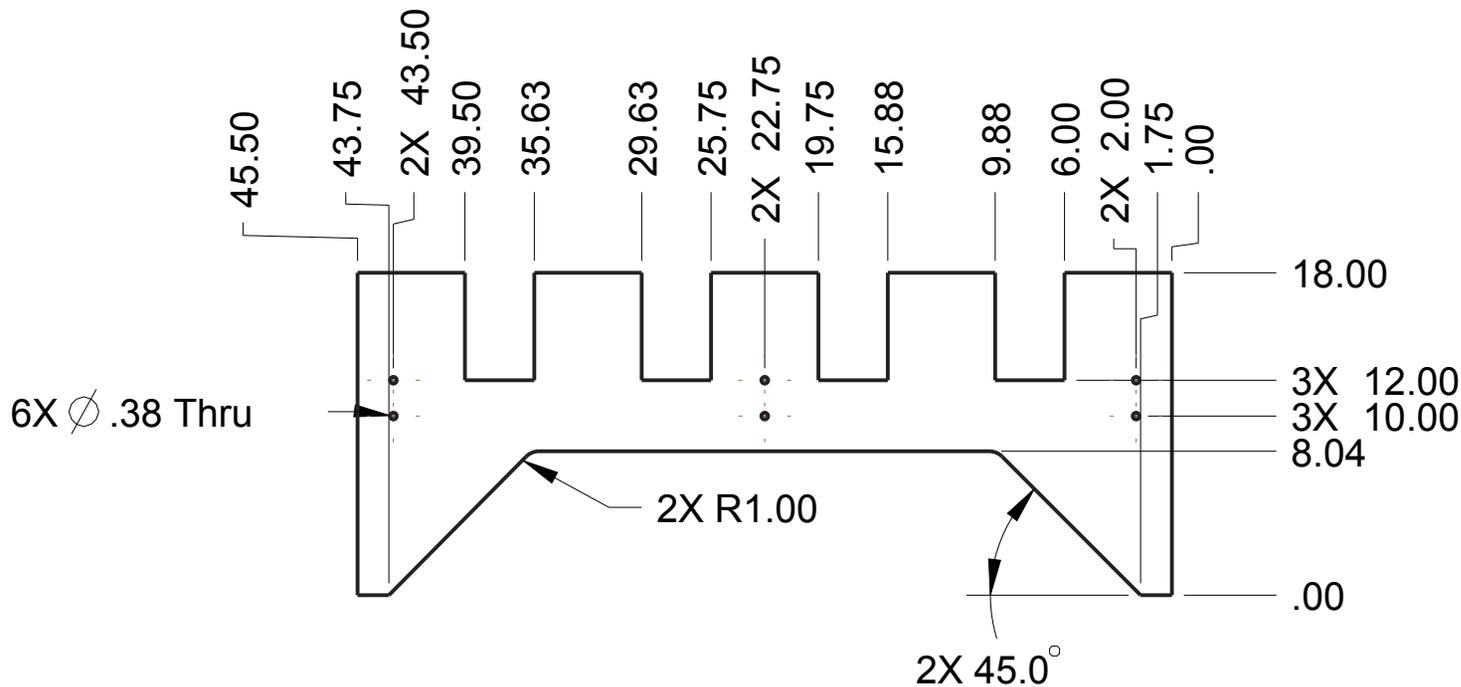
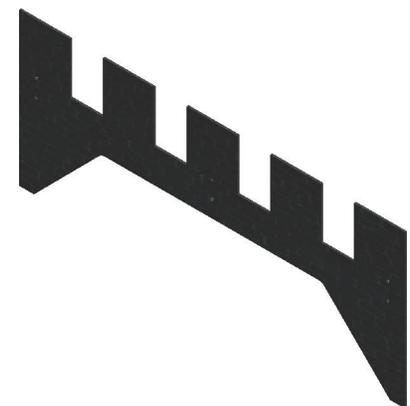
TITLE
DRAWBRIDGE CRENELLATIONS

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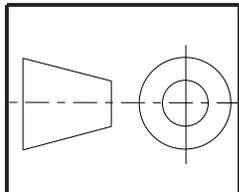


NOTE:

Material: Clear Polycarbonate, .25" Thick
 Scale: 3:32
 Qty:1

Print to look like stone

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	APPROVED BY	DATE
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TITLE DRAWBRIDGE CRENELLATIONS		
PROJECT	MODEL NAME GE-16050	ISSUE



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XXX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°
DO NOT SCALE

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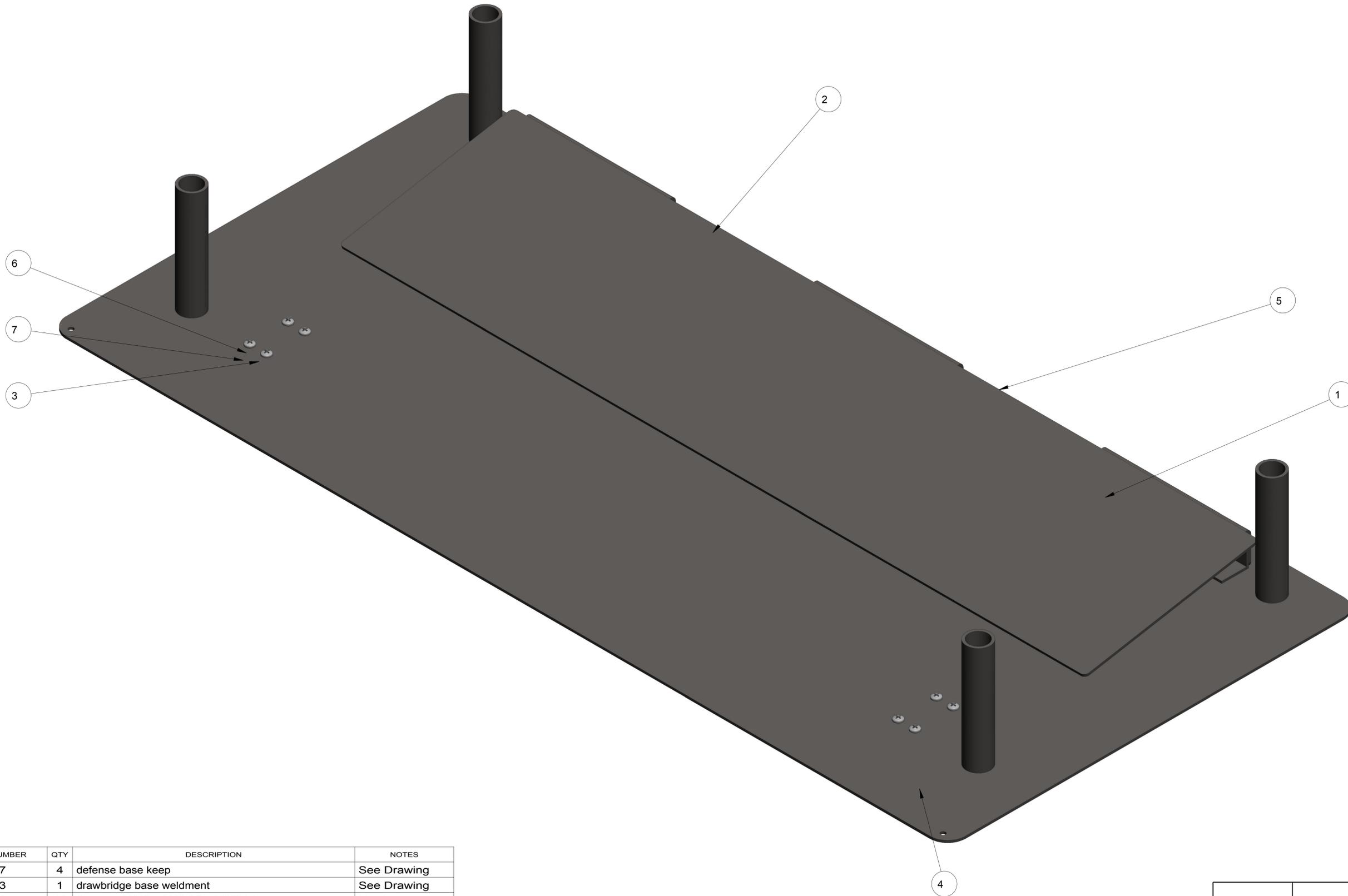
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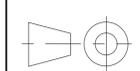
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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16053	1	drawbridge base weldment	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
4	GE-16151	4	2.5" Tall Swivel Caster	Hardware
5	GE-16170	1	drawbridge ramp	See Drawing
6	HW-00086	22	pan head, 1/4-20 x 1"	Hardware
7	HW-00087	22	nut, nylock 1/4-20	Hardware

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ±.01 XXXX ±.001 ANG ±.1 DO NOT SCALE</p>		DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
	TITLE: Drawbridge Base Assembly PROJECT: _____ MODEL NAME: GE-16052 ISSUE: _____		
SCALE 1:2 SHEET 1 OF 3			

1 2 3 4 5 6 7 8

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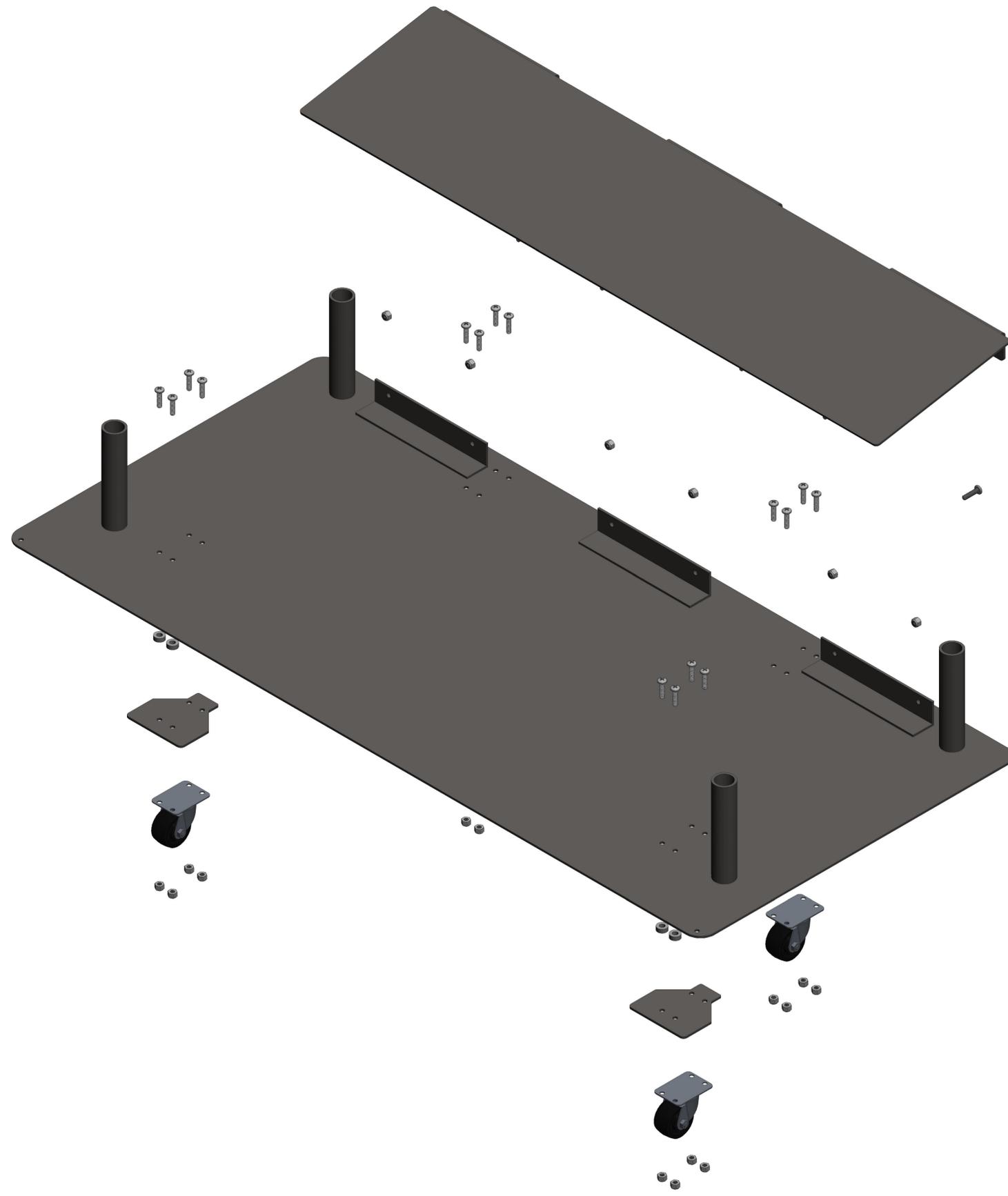
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MODEL NAME: GE-16052 TITLE: Drawbridge Base Assembly



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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>		SCALE 5:16 SHEET 2 OF 3
TITLE Drawbridge Base Assembly		PROJECT
MODEL NAME GE-16052		ISSUE
DO NOT SCALE		

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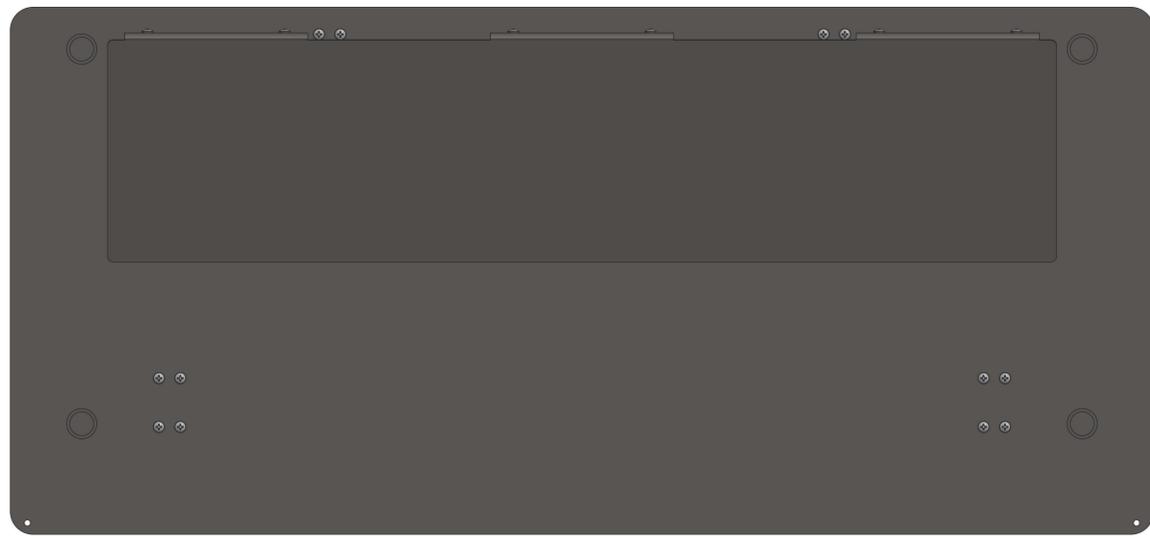
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MODEL NAME: GE-16052 TITLE: Drawbridge Base Assembly



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>	SCALE 1:4	
TITLE Drawbridge Base Assembly		
PROJECT		MODEL NAME GE-16052
DO NOT SCALE		ISSUE

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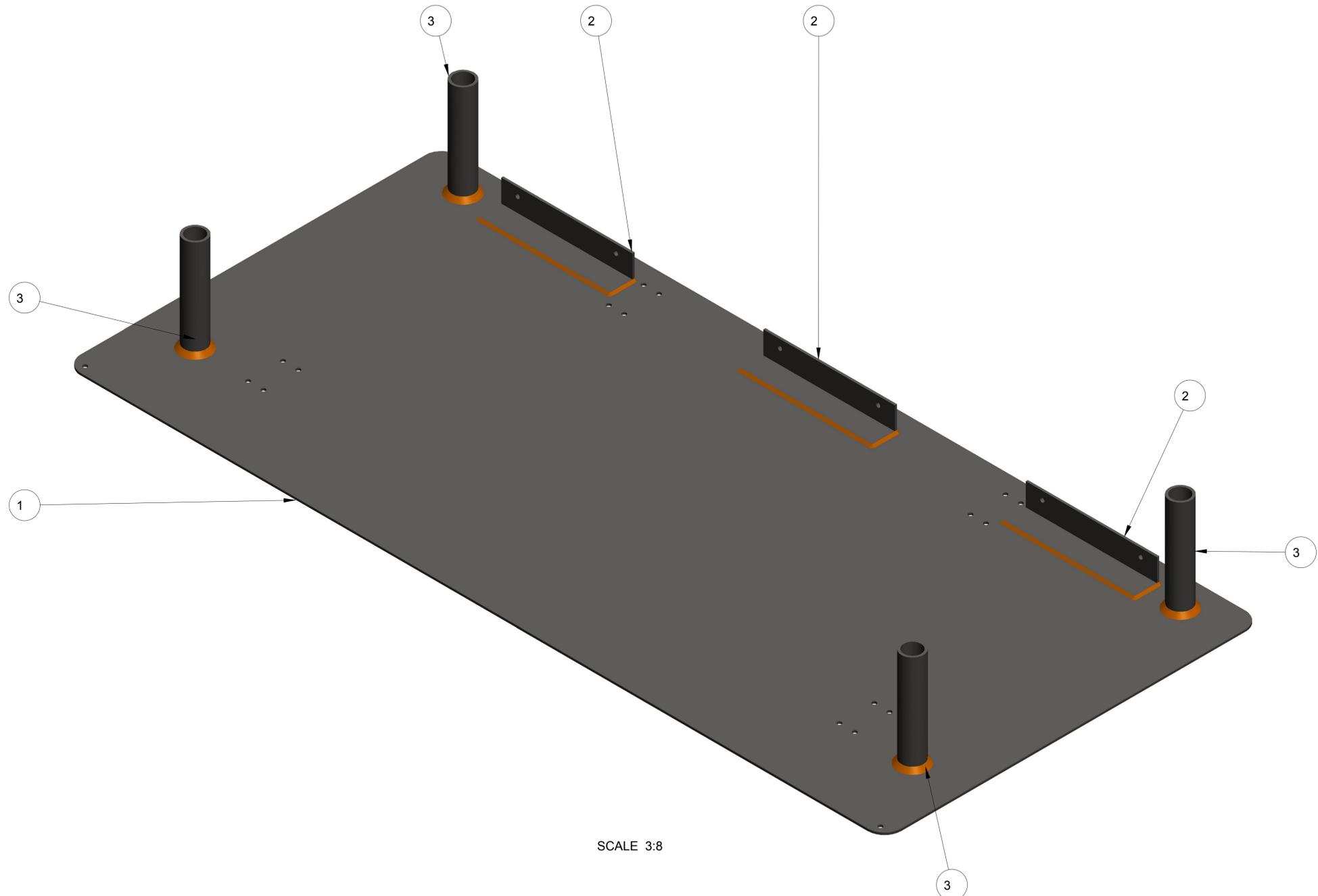
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1 2 3 4 5 6 7 8

MODEL NAME: GE-16053
 TITLE: Drawbridge Base

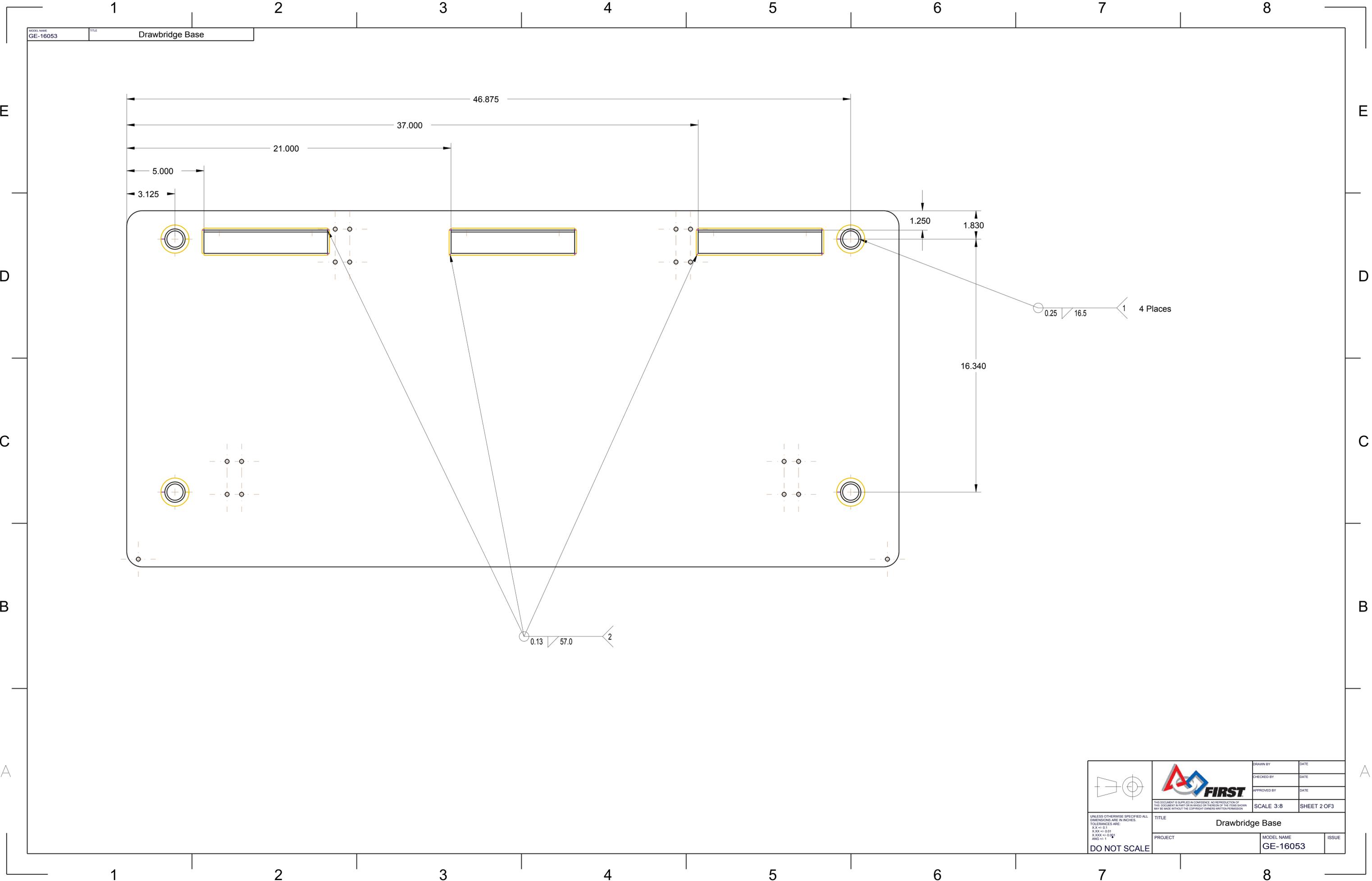
ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	See Drawing for Defense Holder Base
2	GE-16053-01	3	ge-16053-01.prt	1.5" Steel Angle (.125" Thick)
3	GE-16053-02	4	ge-16053-02.prt	1" Steel Schedule 40 Pipe



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE: Drawbridge Base		SCALE 3:8
PROJECT:		ISSUE: SHEET 1 OF 3
MODEL NAME: GE-16053		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± .1

DO NOT SCALE



	DRAWN BY	DATE
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	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1</small>	
SCALE 3:8		SHEET 2 OF 3
TITLE: Drawbridge Base		
PROJECT	MODEL NAME GE-16053	ISSUE

DO NOT SCALE

1 2 3 4 5 6 7 8

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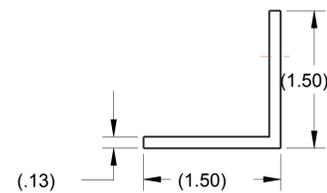
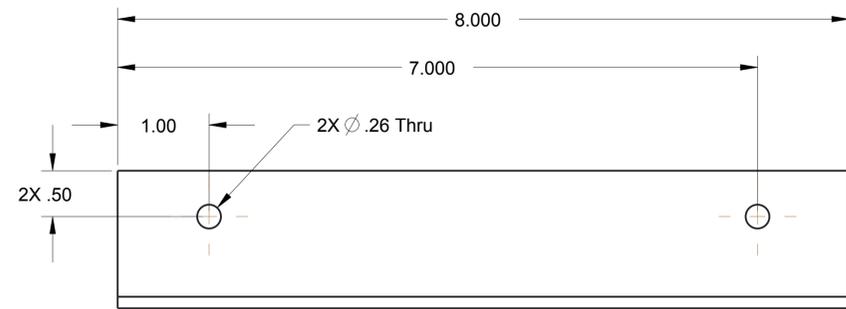
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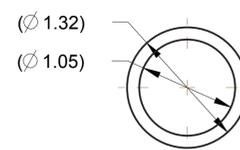
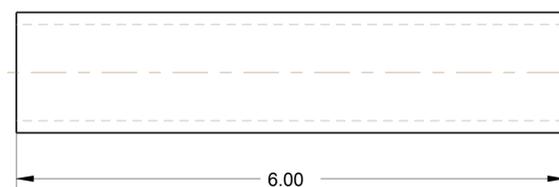
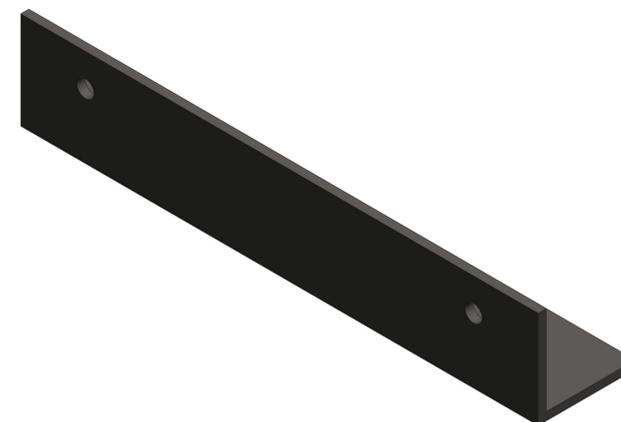
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NOTE
Part: DB_BASE_PT1
Material: 1.5" Steel Angle, .125" Thick
Qty: 3
Scale: 1:1

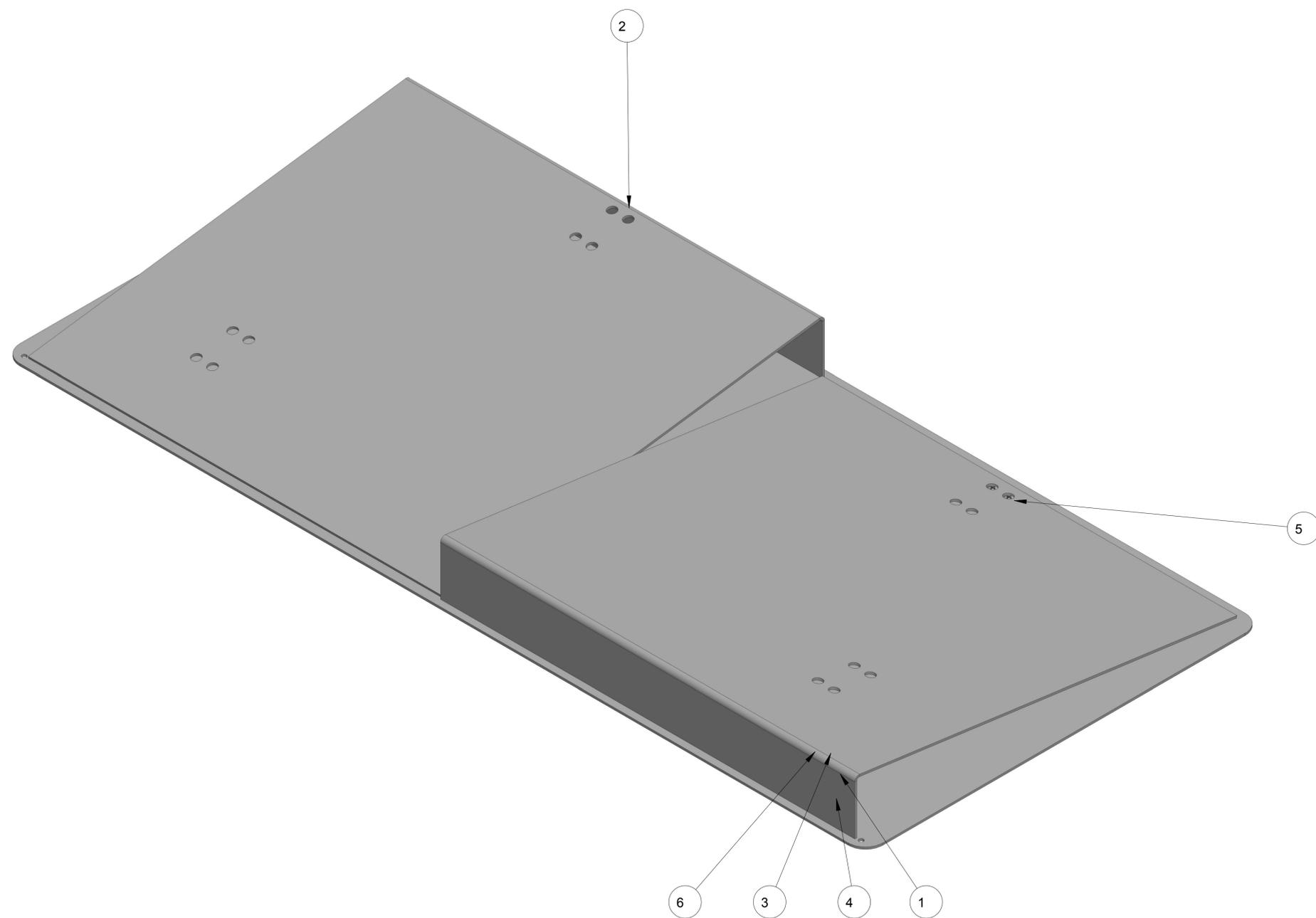


NOTE
Part: DB_MOUNT
Material: 1" Schedule 40 Steel Pipe
Qty: 4
Scale: 1:1



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>	
FIRST <small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>		SCALE 3:8
TITLE Drawbridge Base		SHEET 3 OF 3
PROJECT	MODEL NAME	ISSUE
DO NOT SCALE	GE-16053	

1 2 3 4 5 6 7 8



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16055	1	ramparts, weldment	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Spacer, .26" ID, .625" OD, .25" Thick
4	GE-16151	4	2.5" Tall Swivel Caster	2.5" Tall Swivel Caster
5	HW-00086	16	pan head, 1/4-20 x 1"	1/4"-20, 1" Long Machine Screw
6	HW-00087	16	nut, nylock 1/4-20	1/4"-20, Nylock Nut

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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE: Ramparts Assembly		SCALE 3:8
PROJECT:		ISSUE: SHEET 1 OF 3
MODEL NAME: GE-16054		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
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 X.XXX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1
 DO NOT SCALE

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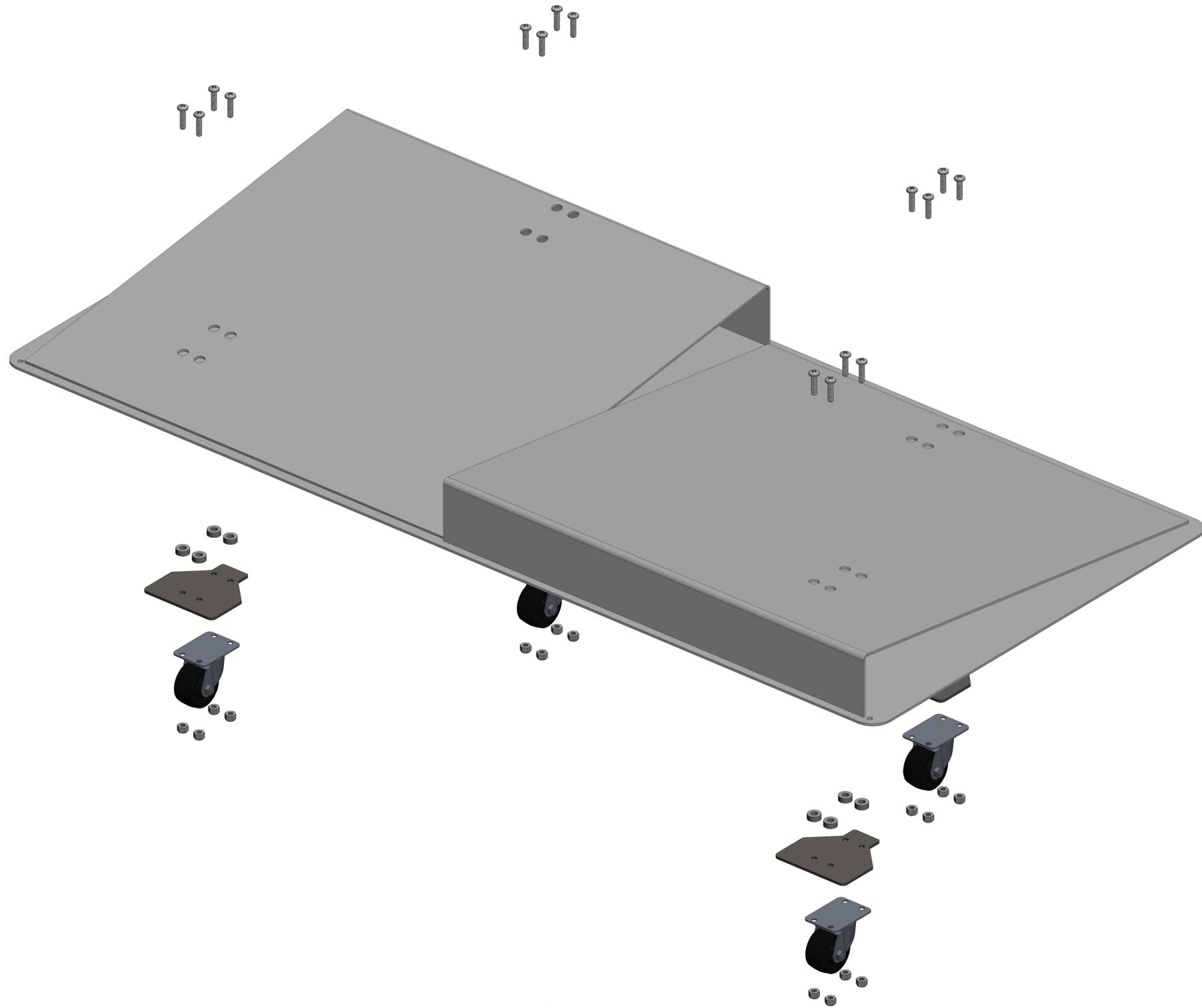
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MODEL NAME: GE-16054
TITLE: Ramparts Assembly



SCALE 3:8

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	APPROVED BY	DATE
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TITLE Ramparts Assembly		SCALE 3:8
PROJECT		ISSUE
MODEL NAME GE-16054		SHEET 2 OF 3

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± 1
DO NOT SCALE

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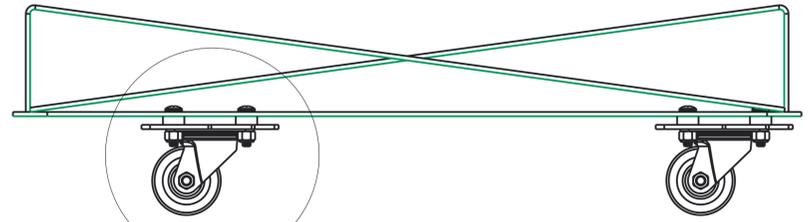
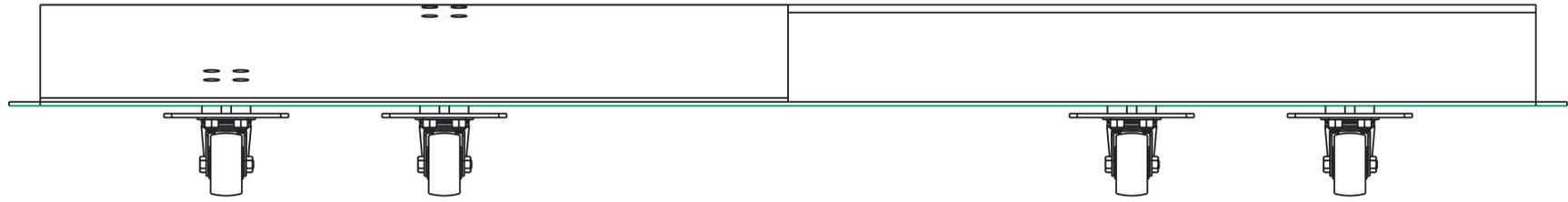
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1 2 3 4 5 6 7 8

MODEL NAME: GE-16054
 TITLE: Ramparts Assembly

E

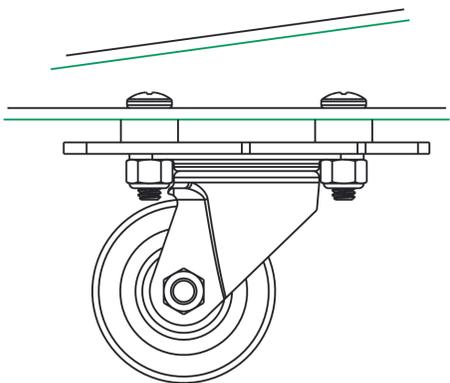
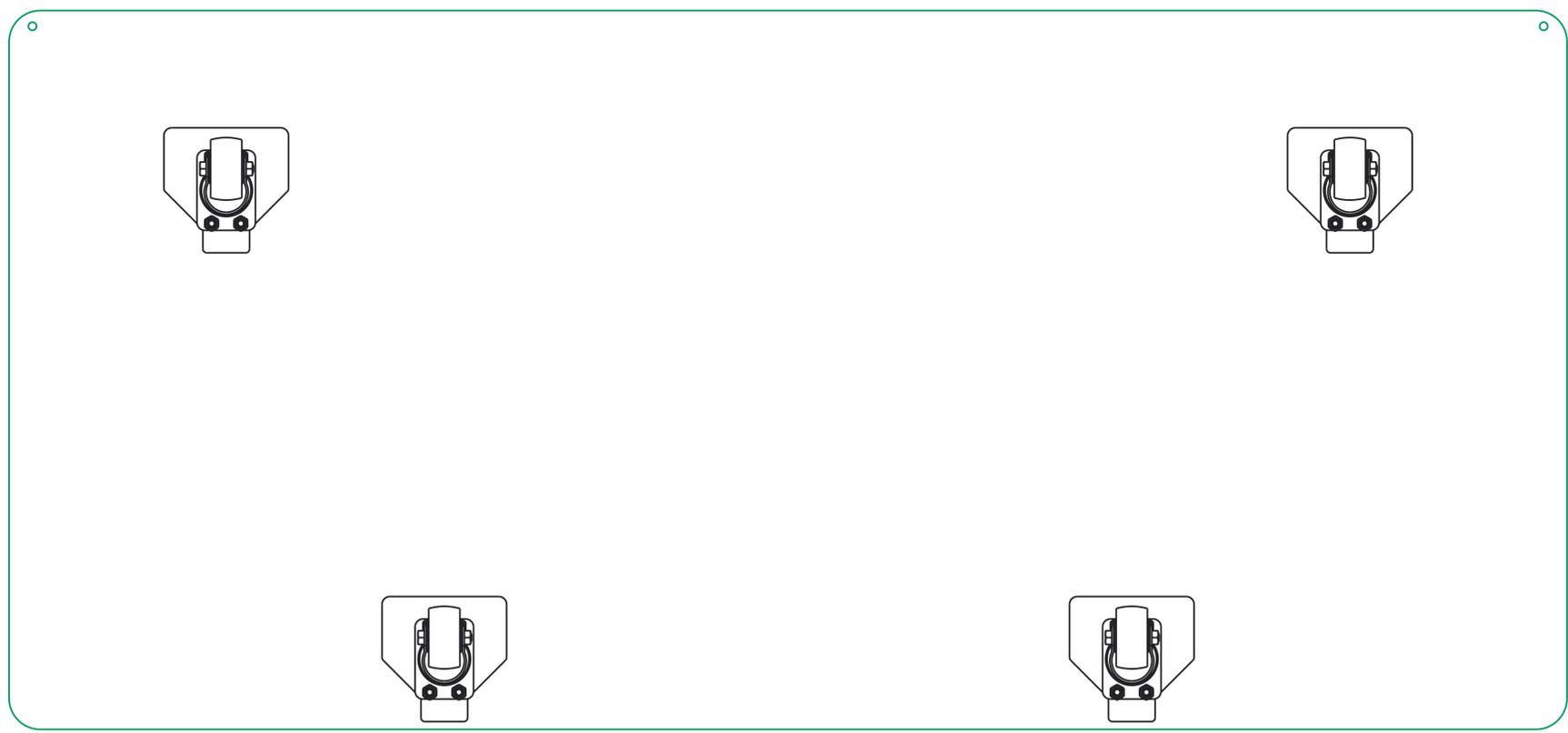
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SEE DETAIL A

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DETAIL A
 SCALE 1:1

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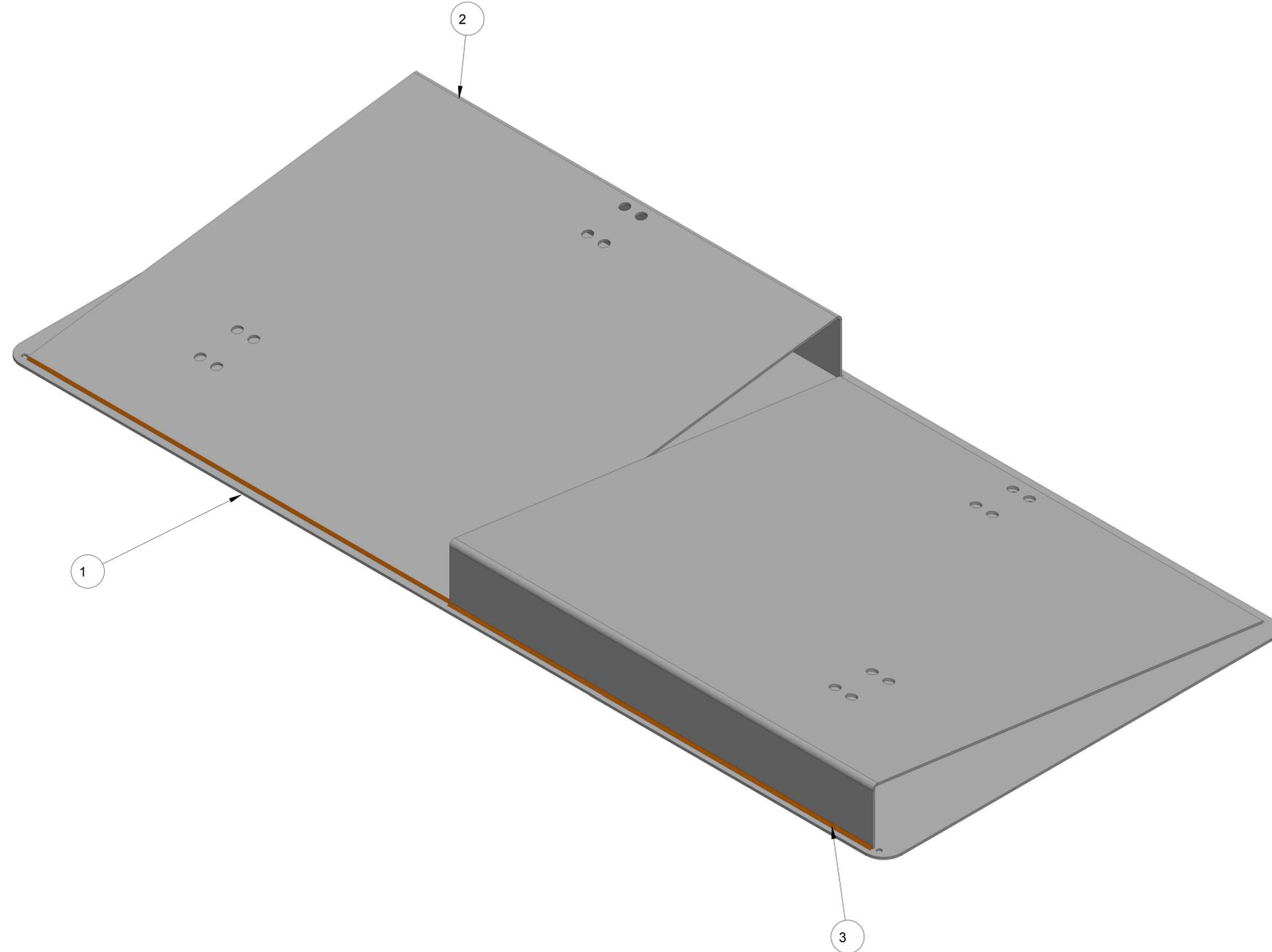
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1 2 3 4 5 6 7 8

	DRAWN BY	DATE
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	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</small>	TITLE: Ramparts Assembly PROJECT: MODEL NAME: GE-16054 SCALE: 3:8 SHEET 3 OF 3 ISSUE:	
DO NOT SCALE		

MODEL NAME: GE-16055
 TITLE: Ramp Base

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	D Base	See Drawing for DH Base
2	GE-16056	1	ramparts 1	See Drawing for RAMP
3	GE-16057	1	ramparts 2	See Drawing for RAMP2



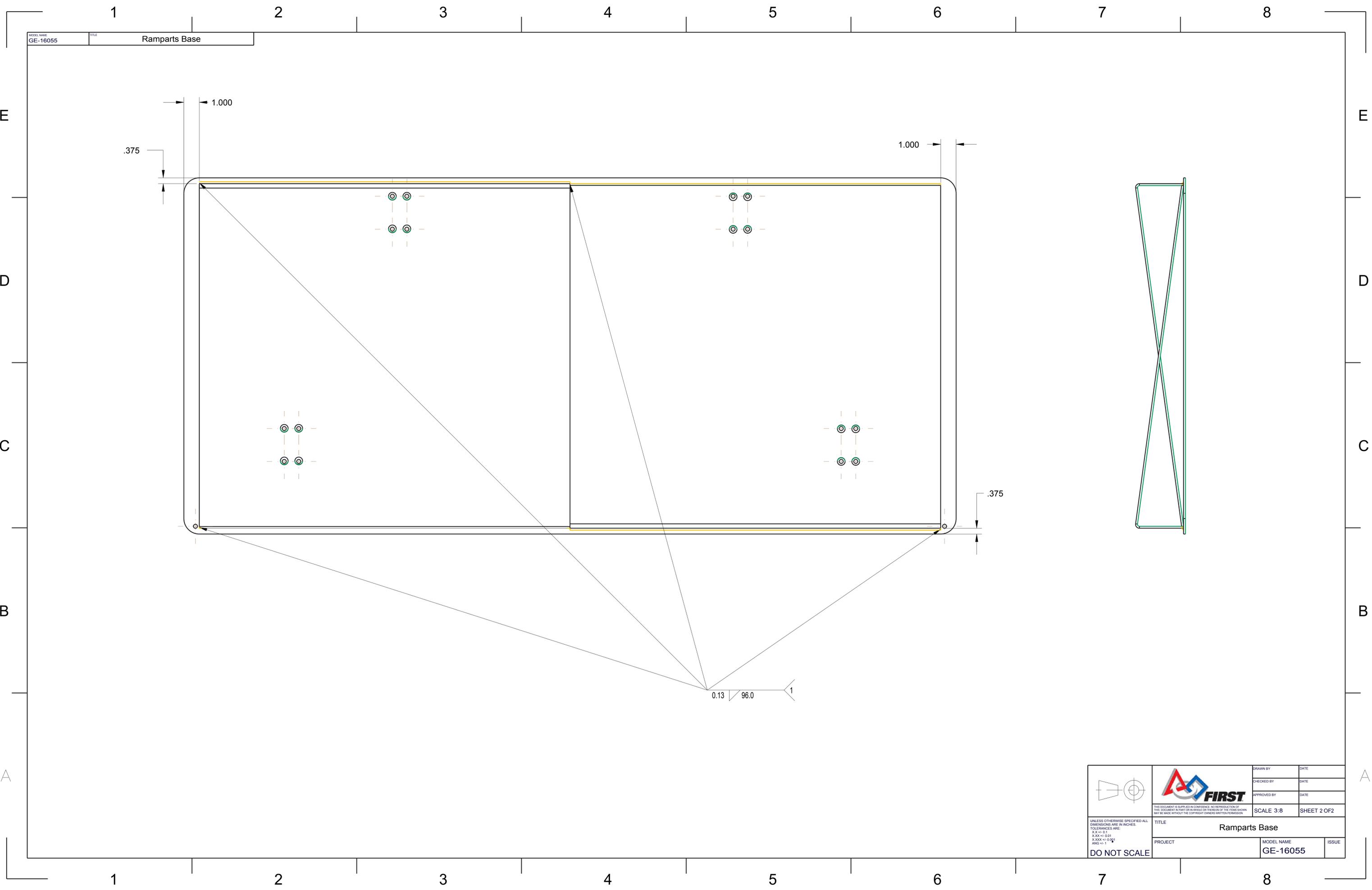
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	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</small>	TITLE: Ramp Base PROJECT: _____ MODEL NAME: GE-16055 ISSUE: _____	
DO NOT SCALE	SCALE 3:8	SHEET 1 OF 2

1 2 3 4 5 6 7 8

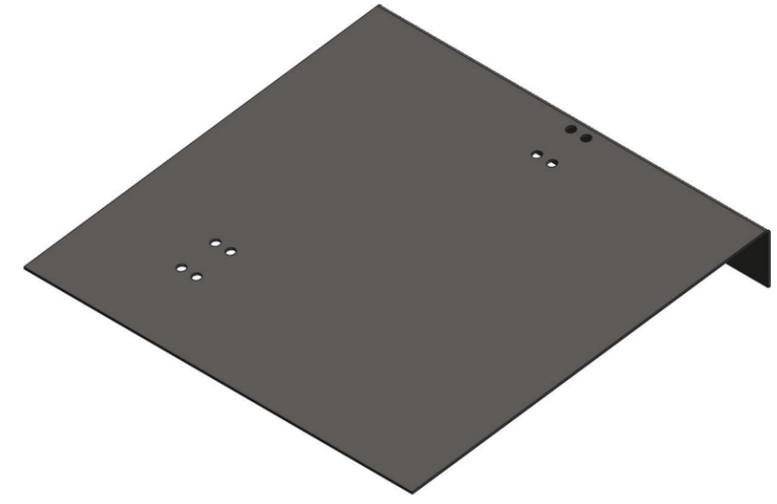
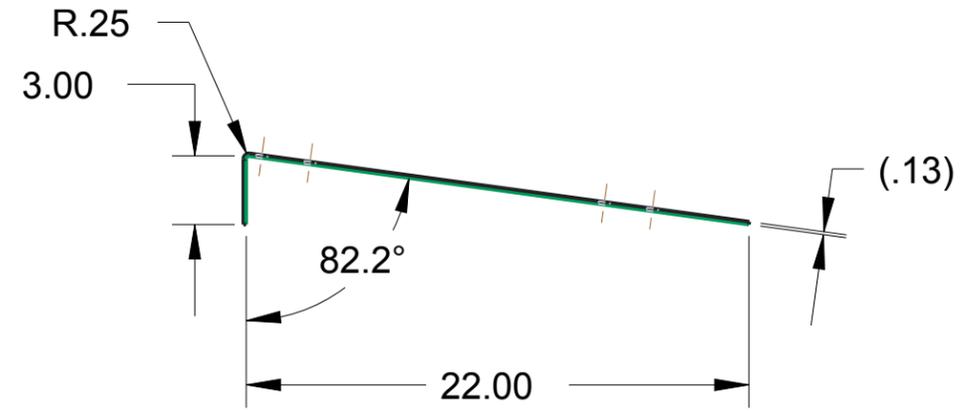
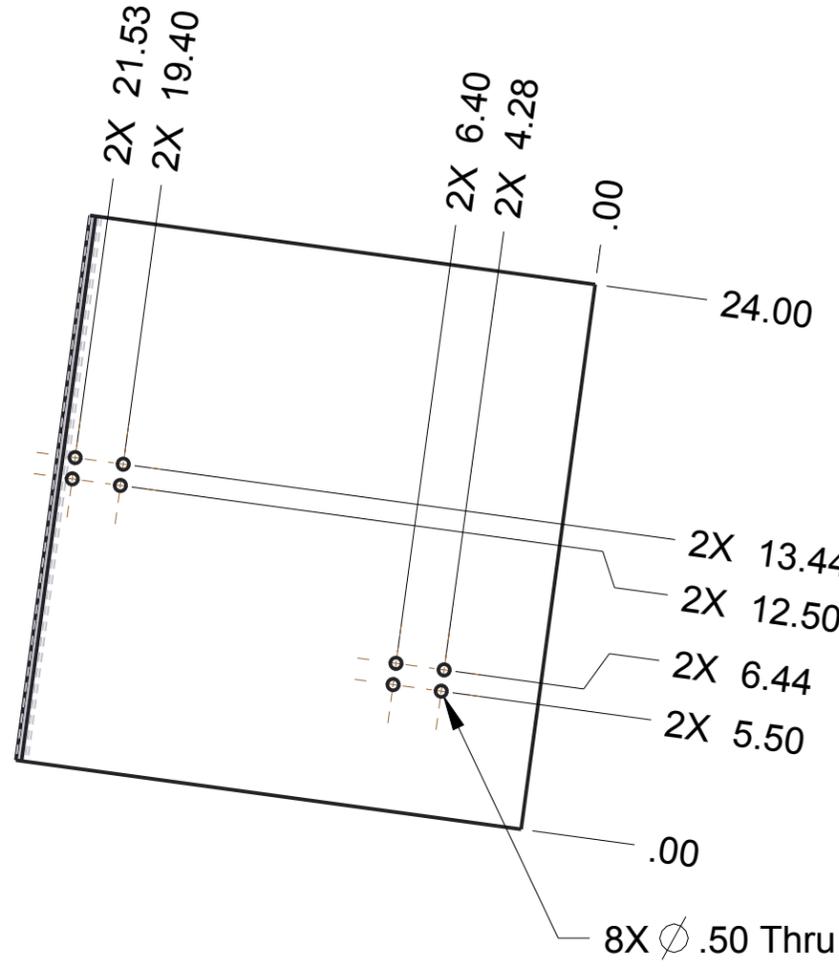
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		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</small>	
TITLE: Ramparts Base		SCALE 3:8	SHEET 2 OF 2
PROJECT:		MODEL NAME: GE-16055	ISSUE:
DO NOT SCALE			



NOTE

Material: Steel Sheet, .125" Thick
Scale: 1:8

Remove all burrs and sharp edges

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE <h3 style="text-align: center;">Ramparts</h3>	
DO NOT SCALE		PROJECT	MODEL NAME GE-16056
			ISSUE

MODEL NAME
GE-16057

TITLE
Ramparts2

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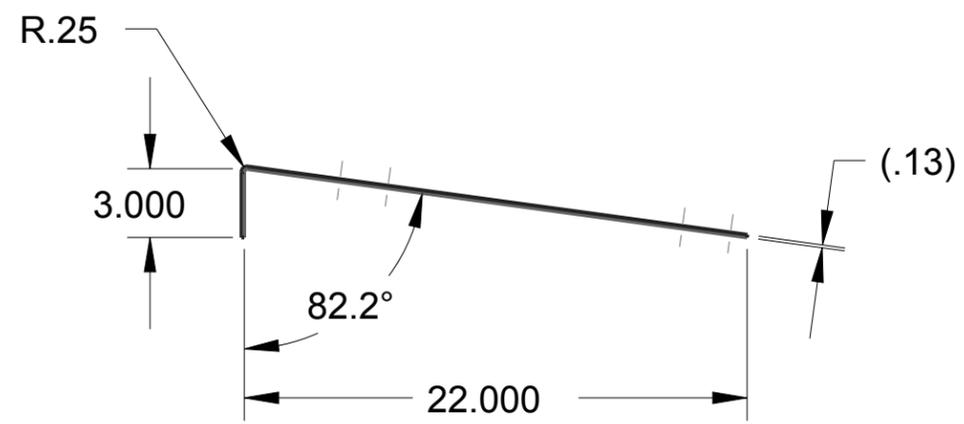
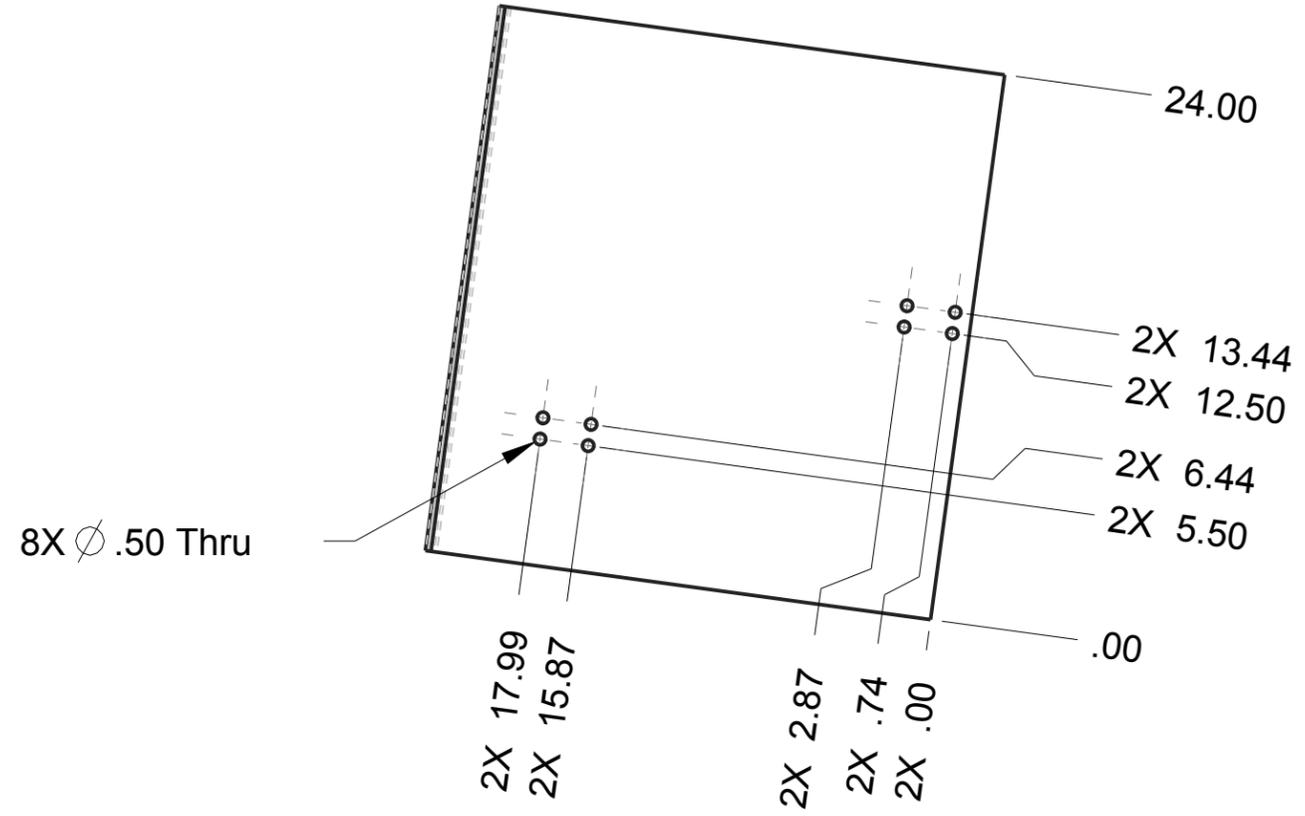
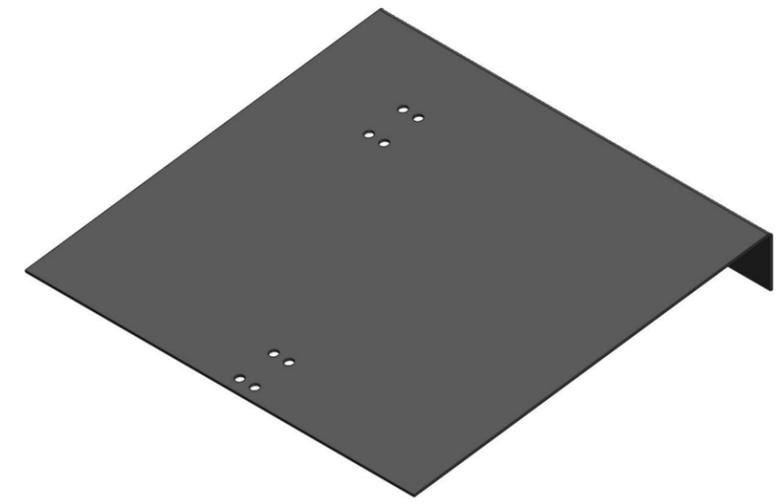
C

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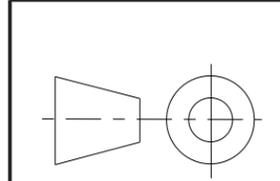


NOTE

Material: Steel Sheet, .125" Thick

Scale: 1:8

Remove all burrs and sharp edges



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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CHECKED BY	DATE
APPROVED BY	DATE

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SCALE 1:8 SHEET 1 OF 1

TITLE
Ramparts2

PROJECT	MODEL NAME GE-16057	ISSUE
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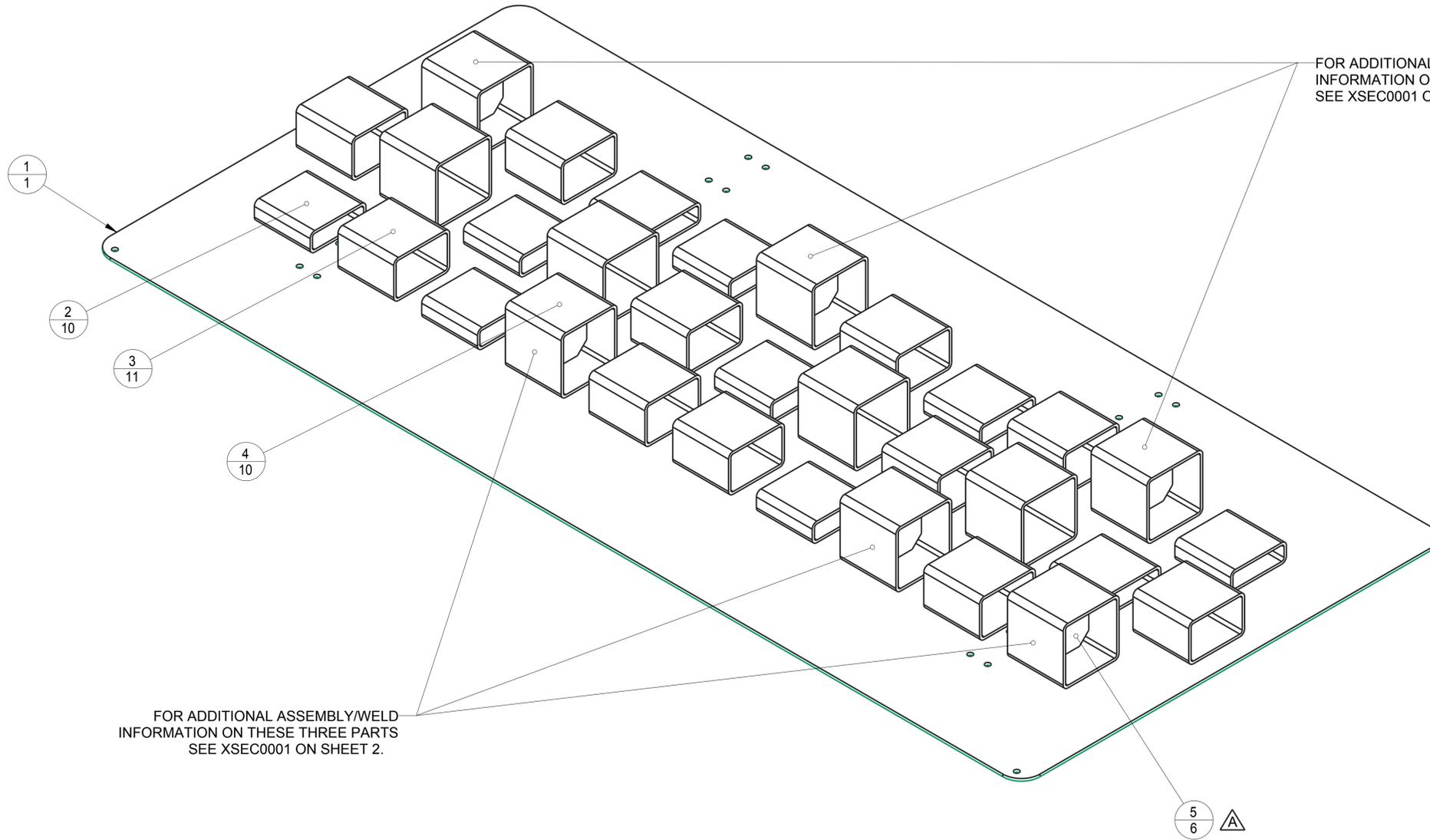
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REV	ZONE	DESCRIPTION	INITIALS	DATE
A	A-3, B-5	ADDED ITEM 5	DAF	12/15/2015



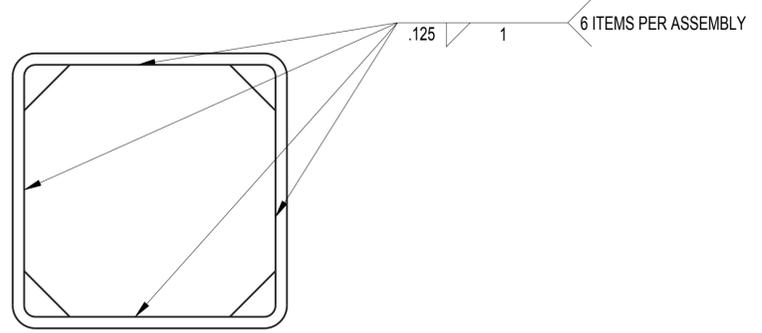
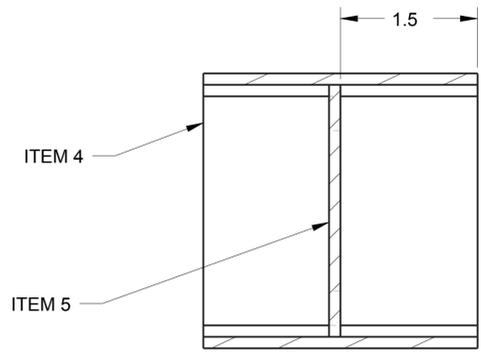
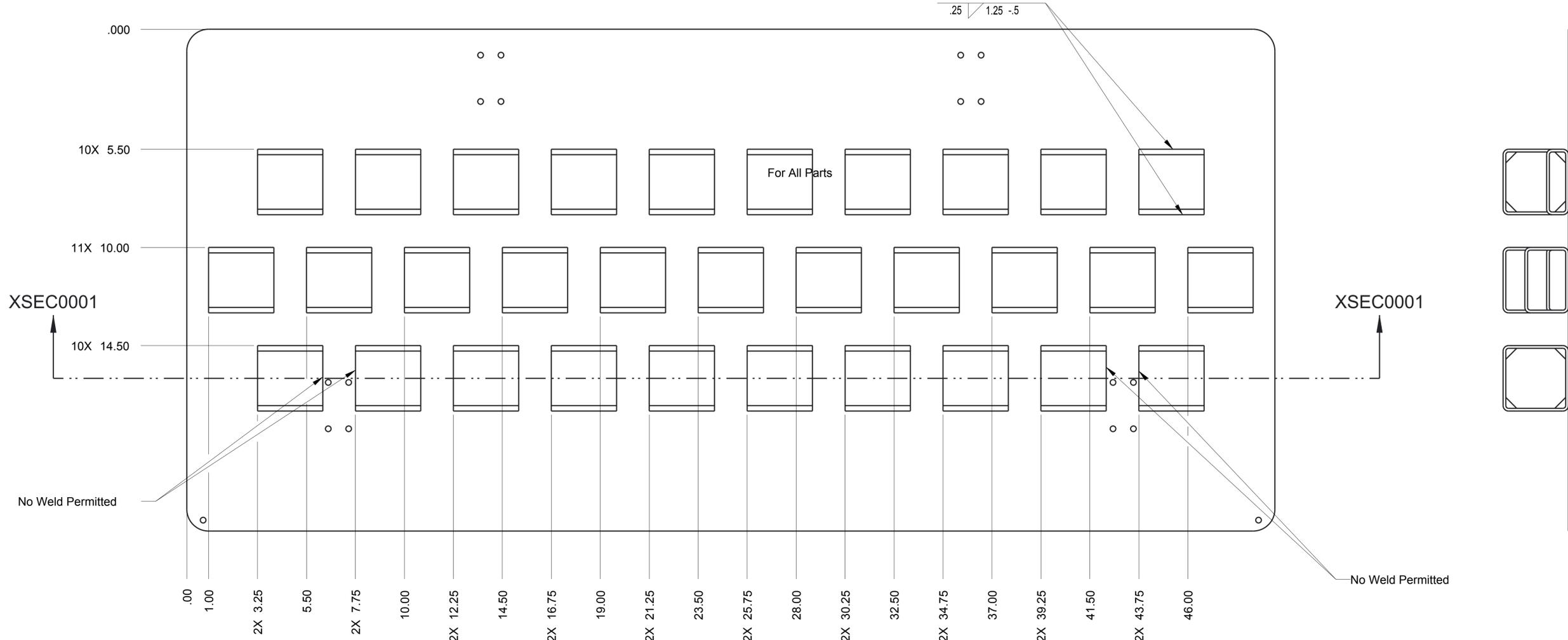
FOR ADDITIONAL ASSEMBLY/WELD INFORMATION ON THESE THREE PARTS SEE XSEC0001 ON SHEET 2.

FOR ADDITIONAL ASSEMBLY/WELD INFORMATION ON THESE THREE PARTS SEE XSEC0001 ON SHEET 2.

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	
2	GE-16060-01	10	1" RISER	1" x 3" Rectangular Steel Tubing
3	GE-16060-02	11	2" RISER	2" x 3" Rectangular Steel Tubing
4	GE-16060-03	10	3" RISER	3" x 3" Rectangular Steel Tubing
5	GE-16060-04	6	BRACE, 3" RISER	.125" STEEL SHEET



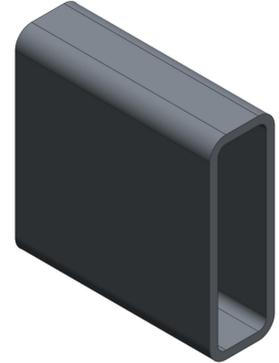
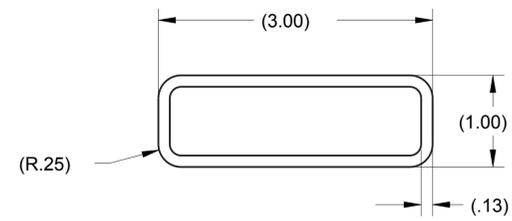
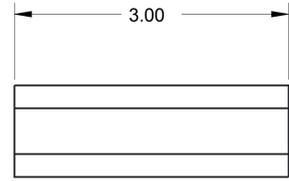
 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1</small> DO NOT SCALE		DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____	
	TITLE: ROUGH TERRAIN ASSEM		
	PROJECT: _____	MODEL NAME: GE-16060	ISSUE: _____
	SCALE: 3:8 SHEET 1 OF 4		



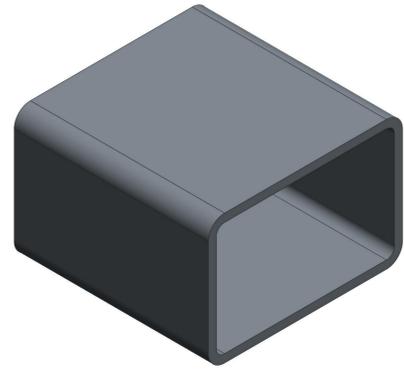
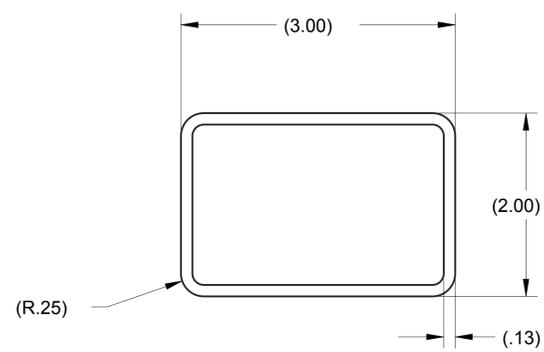
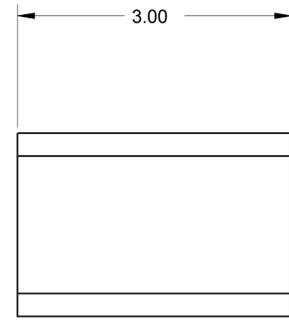
XSEC0001 - TYPICAL 6 PLACES ON ASSEMBLY

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. XXX +/- 0.1 XXXX +/- 0.01 XXXX +/- 0.001 ANG +/- 1</small>	
TITLE: ROUGH TERRAIN ASSEM		SCALE: 3:8
PROJECT:		SHEET 2 OF 4
MODEL NAME: GE-16060		ISSUE:

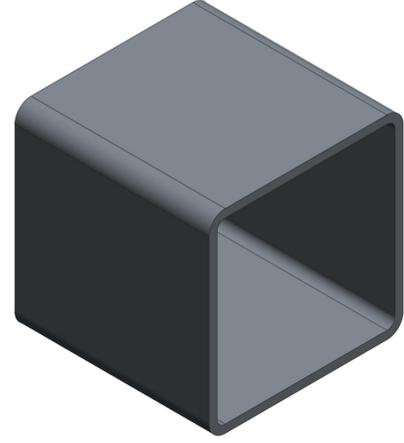
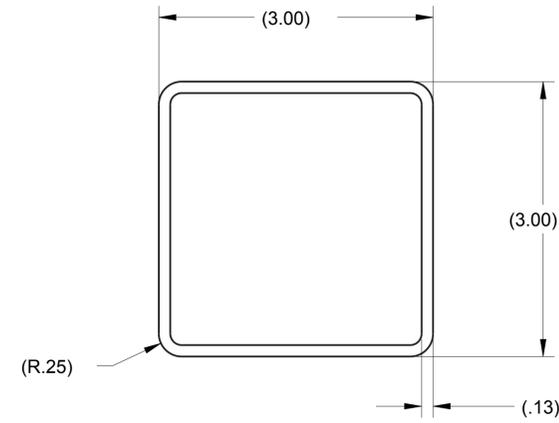
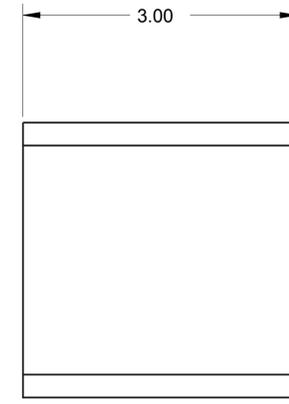
DO NOT SCALE



NOTE
 Part: GE-16060-01
 Material: 1" x 3" Steel Tubing, .125" Thick
 Qty: 10
 Scale: 1:1



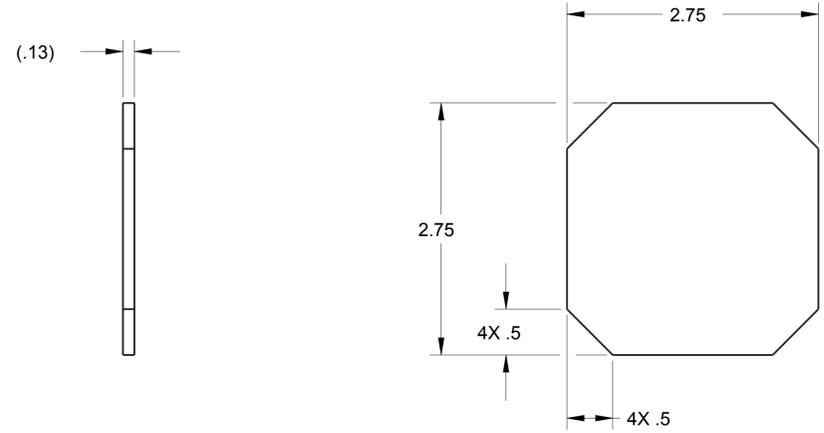
NOTE
 Part: GE-16060-02
 Material: 2" x 3" Steel Tubing, .125" Thick
 Qty: 11
 Scale: 1:1



NOTE
 Part: GE-16060-03
 Material: 3" x 3" Steel Tubing, .125" Thick
 Qty: 10
 Scale: 1:1

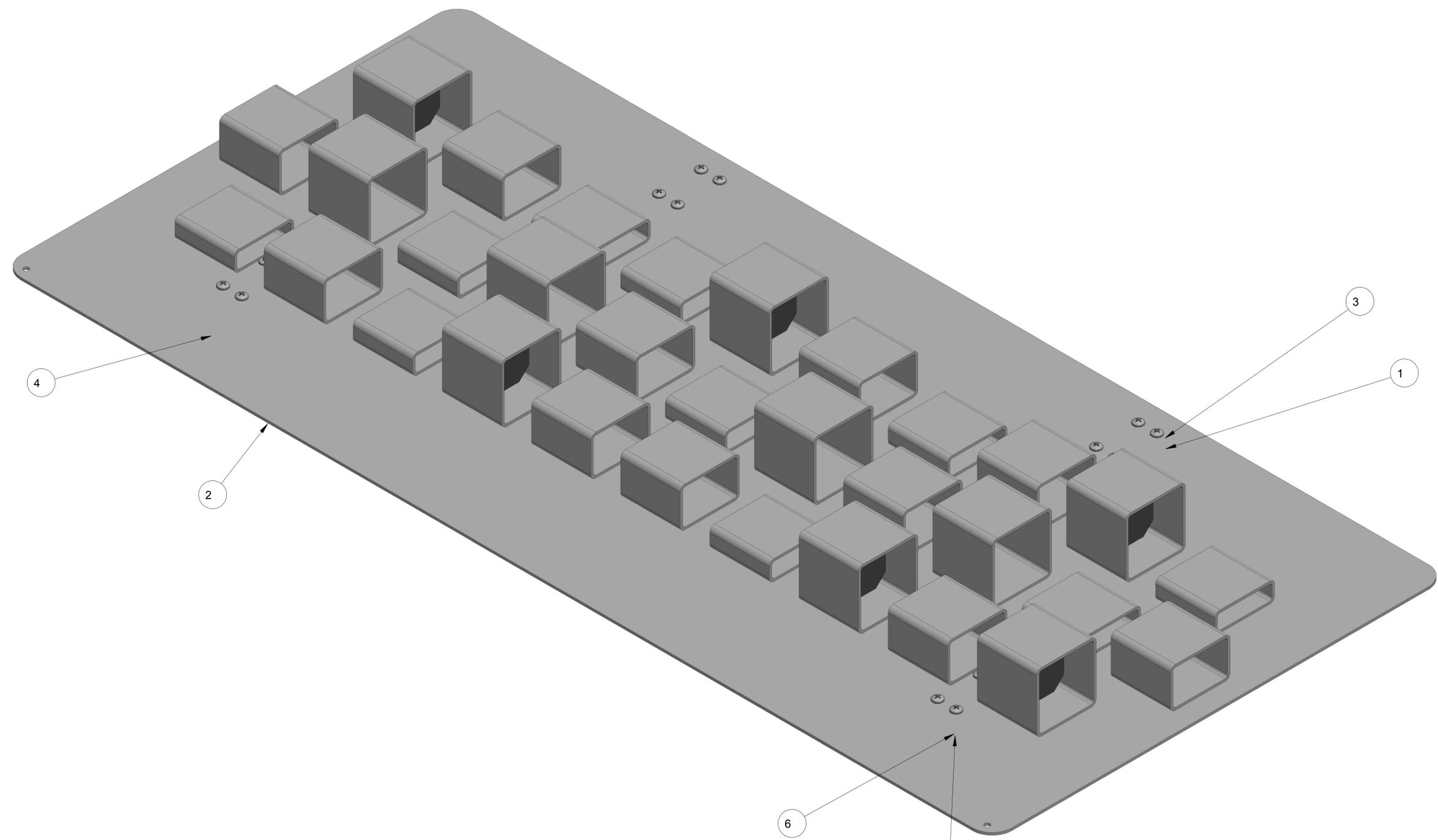
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	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 3:8 SHEET 3 OF 4	
TITLE: ROUGH TERRAIN ASSEM		
PROJECT:		MODEL NAME: GE-16060
ISSUE:		SHEET 3 OF 4

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± .01
 XXXX ± .001
 ANG ± .1
 DO NOT SCALE



NOTE
 Part:GE-16060-04
 Material: .125" STEEL SHEET
 Qty: 6
 Scale: 1:1

<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>			DRAWN BY	DATE
			CHECKED BY	DATE
			APPROVED BY	DATE
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DO NOT SCALE	TITLE ROUGH TERRAIN ASSEM		SCALE 3:8	SHEET 4 OF 4
PROJECT		MODEL NAME	ISSUE	
		GE-16060		



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16060	1	ROUGH TERRAIN, WELDMENT	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
4	GE-16151	4	2.5" Tall Swivel Caster	Hardware
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

	DRAWN BY: _____ DATE: _____	
	CHECKED BY: _____ DATE: _____	
	APPROVED BY: _____ DATE: _____	
	SCALE: 1:2 SHEET 1 OF 3	
TITLE: Rough Terrain Assembly	MODEL NAME: GE-16061	ISSUE: _____
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANGLE +/- 1	PROJECT: _____	DO NOT SCALE

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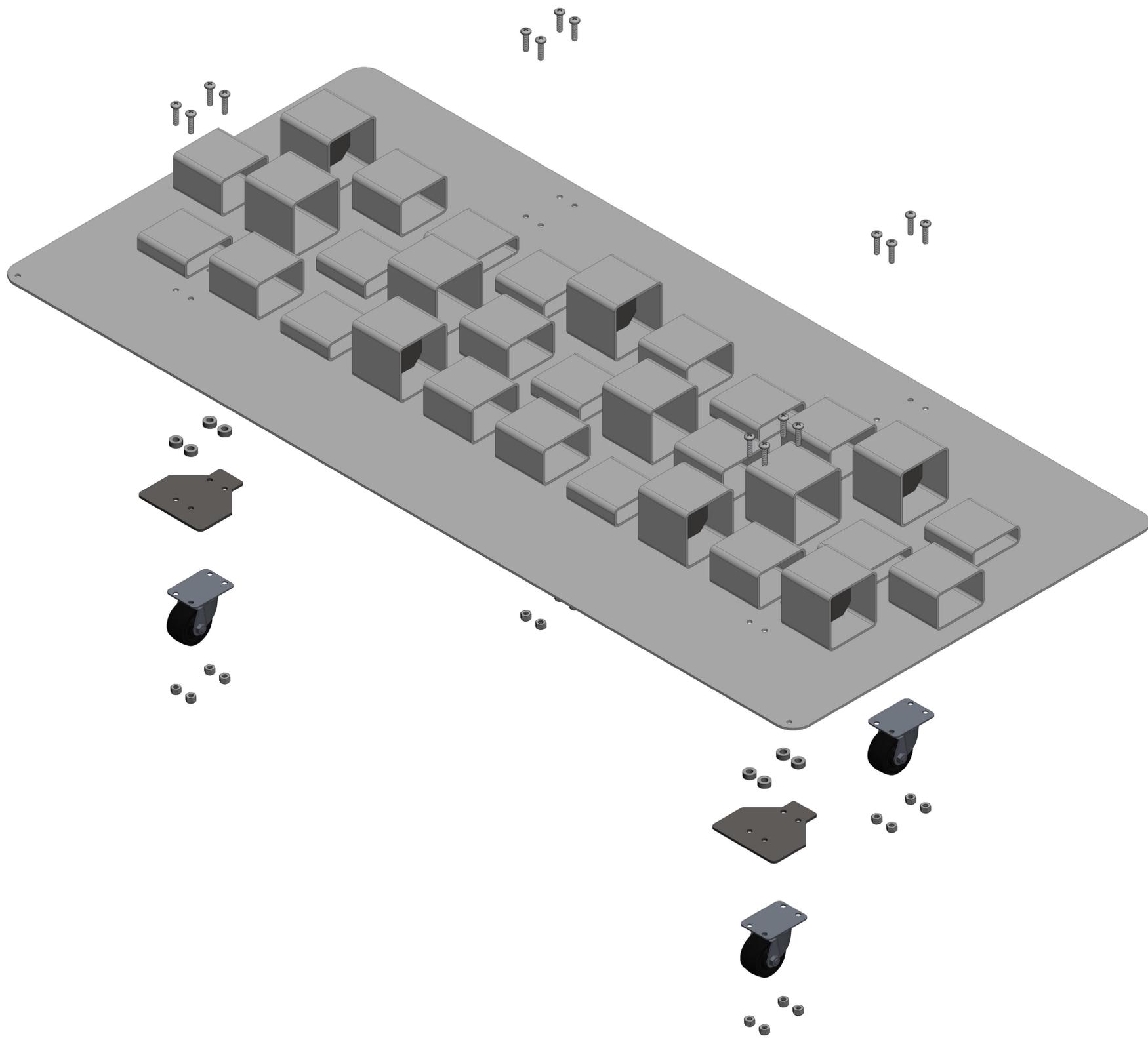
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MODEL NAME: GE-16061 TITLE: Rough Terrain Assembly



 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</p> <p>DO NOT SCALE</p>	<p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>	DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
	<p>TITLE: Rough Terrain Assembly</p>		SCALE 3:8
<p>PROJECT</p>		MODEL NAME	ISSUE
		GE-16061	

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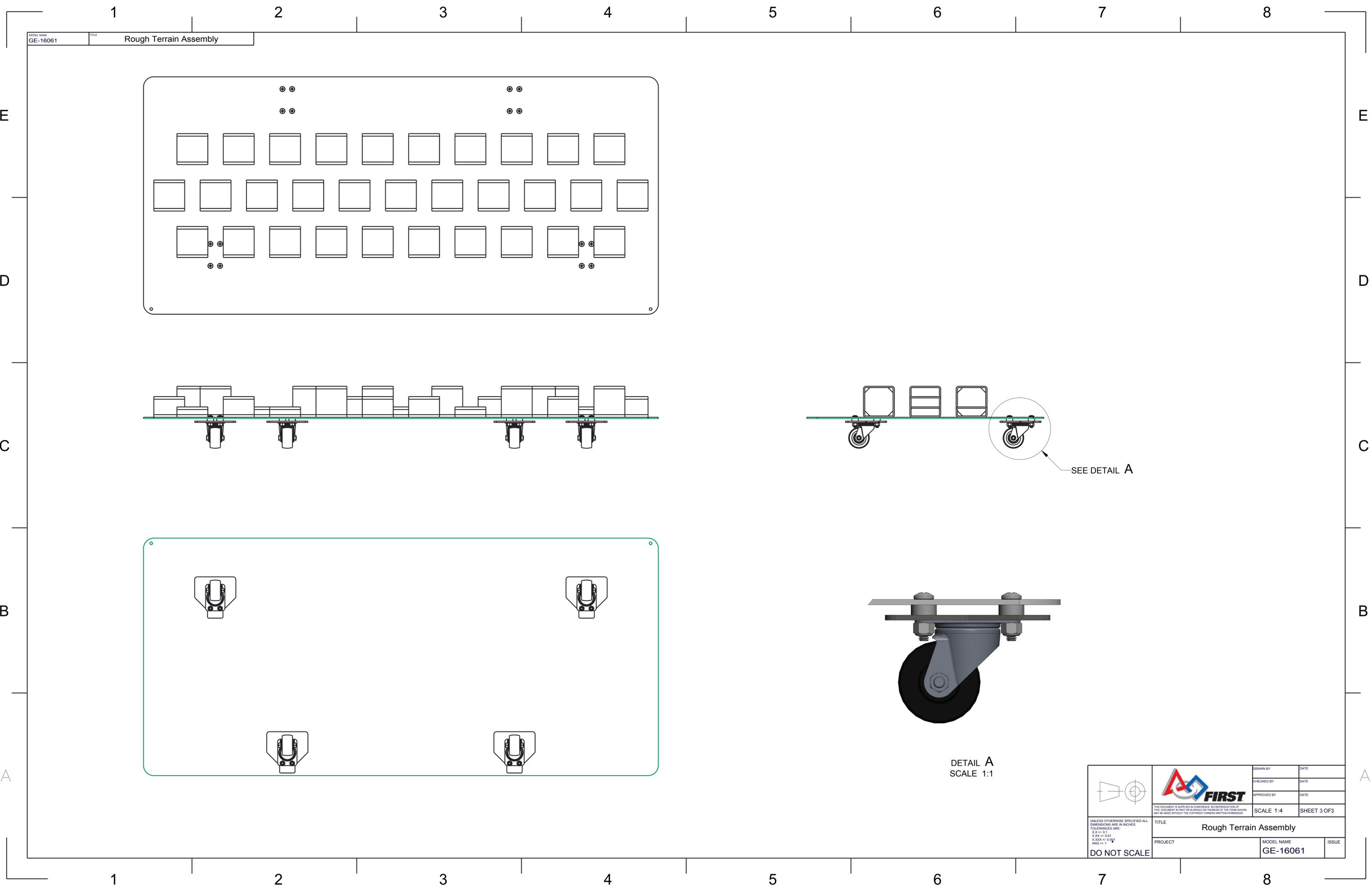
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SEE DETAIL A

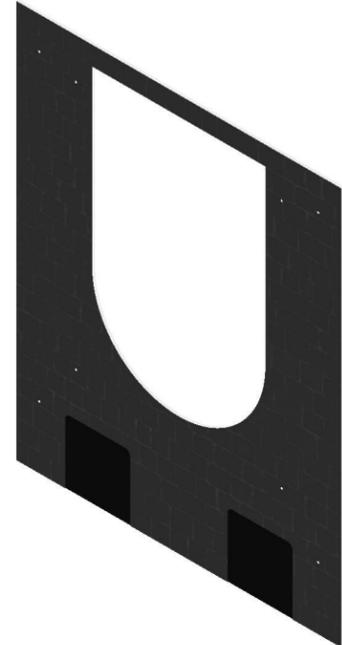
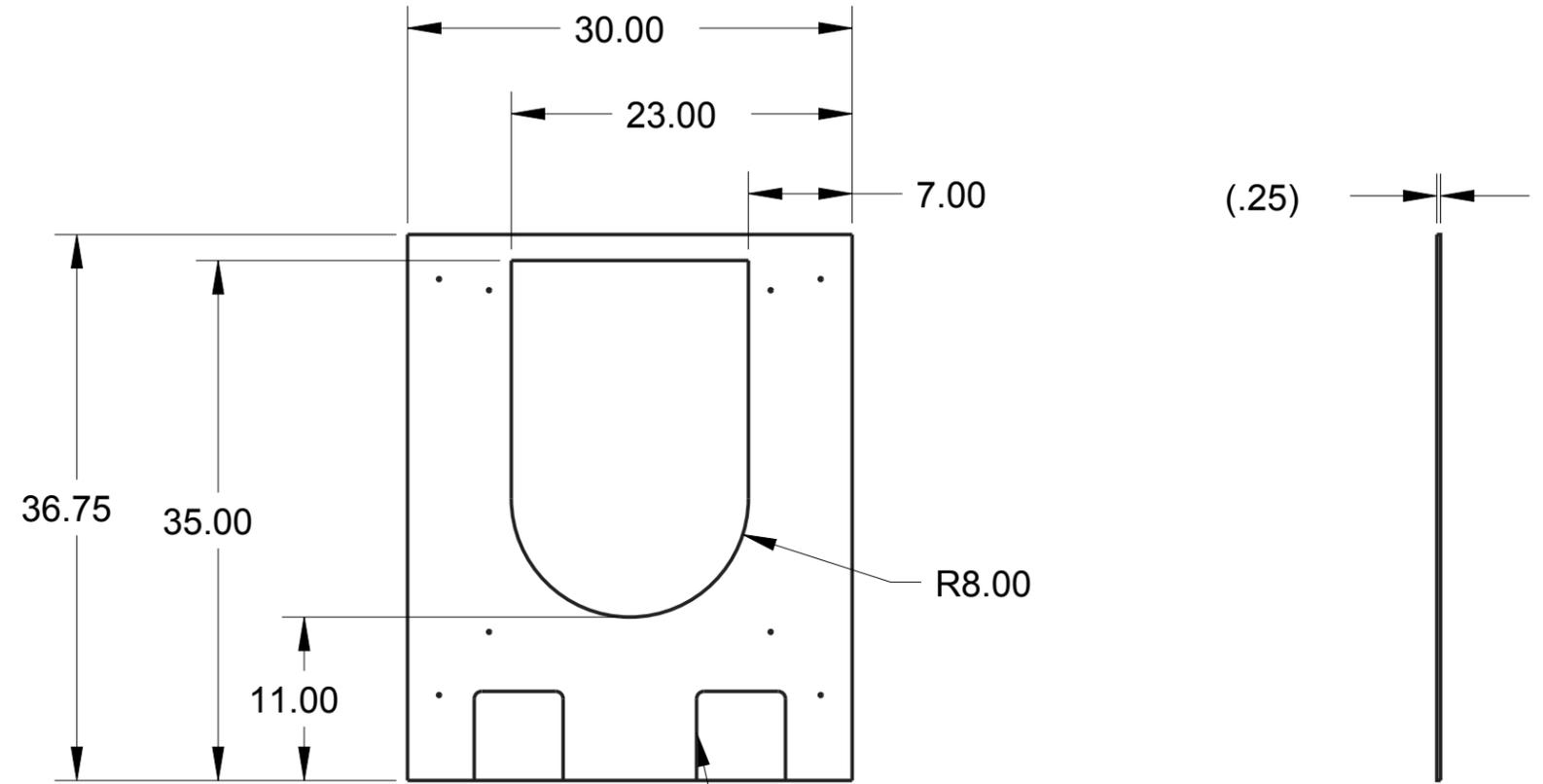
DETAIL A
SCALE 1:1

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		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>		TITLE: Rough Terrain Assembly PROJECT: _____ MODEL NAME: GE-16061 ISSUE: _____ SCALE: 1:4 SHEET 3 OF 3	
DO NOT SCALE			

MODEL NAME
GE-16067

TITLE
TOWER SIDE, HIGH GOAL

REV	ZONE	DESCRIPTION	INITIAL	DAF
A	SHEET 2	ADDED SHEET 2	DAF	12/16/15



RACK WALL PRINT ON ONE SIDE

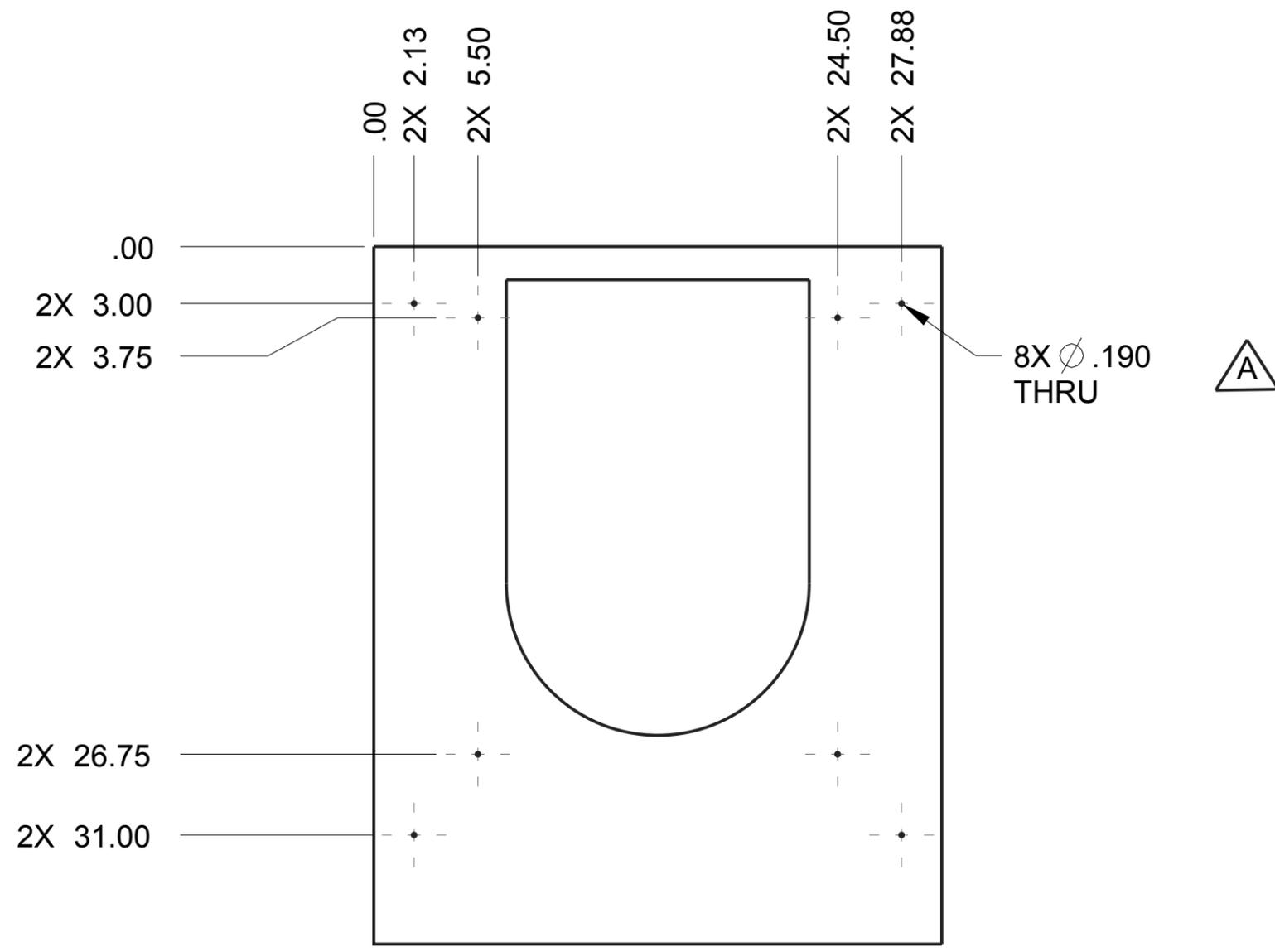
NOTES:
1. MATERIAL: 1/4" THICK POLYCARBONATE, CLEAR

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 1:12	SHEET 1 OF 2
TITLE TOWER SIDE, HIGH GOAL		PROJECT	MODEL NAME GE-16067
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		ISSUE	
DO NOT SCALE			

MODEL NAME
GE-16067

TITLE
TOWER SIDE, HIGH GOAL

REV	ZONE	DESCRIPTION	INITIAL	DAF
A	C-3	ADDED .190 HOLE (QTY 8)	DAF	12/16/15



		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TOWER SIDE, HIGH GOAL	
DO NOT SCALE		PROJECT	MODEL NAME GE-16067
		ISSUE	

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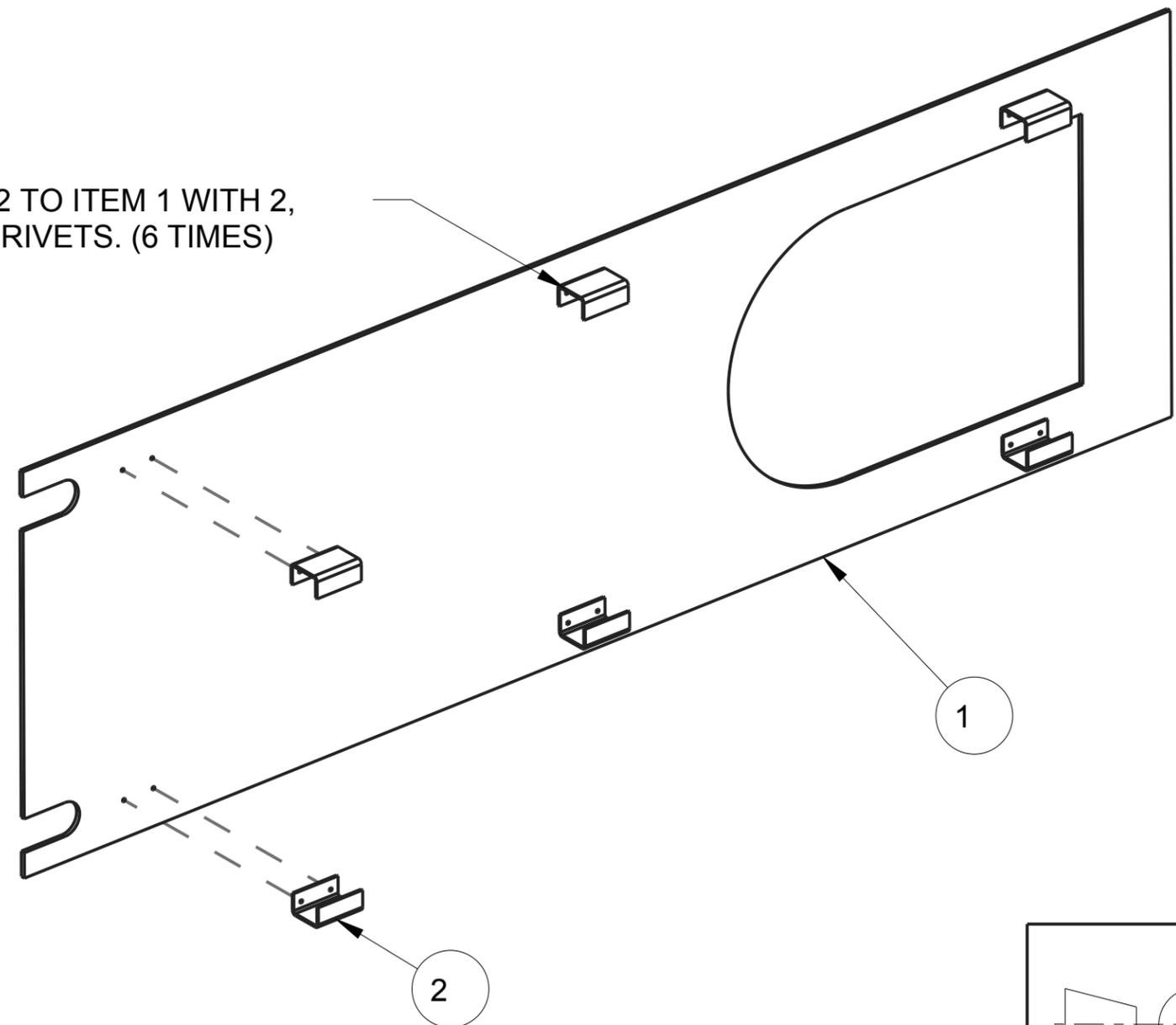
3

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MODEL NAME
GE-16068

TITLE
LOW GOAL PLASTIC ASSEMBLY

ATTACH ITEM 2 TO ITEM 1 WITH 2,
3/16" RIVETS. (6 TIMES)



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16069	1	low goal plastic	
2	GE-16070	6	channel, low plastic	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1
TITLE LOW GOAL PLASTIC ASSEMBLY	
PROJECT	MODEL NAME GE-16068
	ISSUE

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MODEL NAME
GE-16069

TITLE
LOW PLASTIC 1

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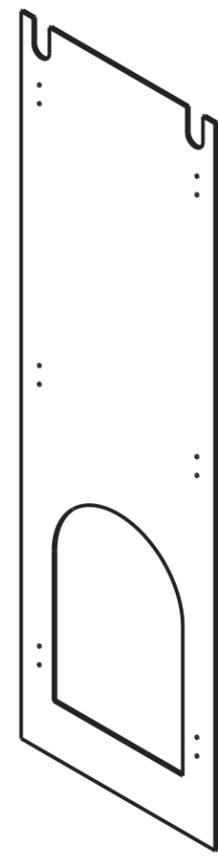
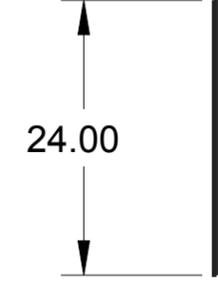
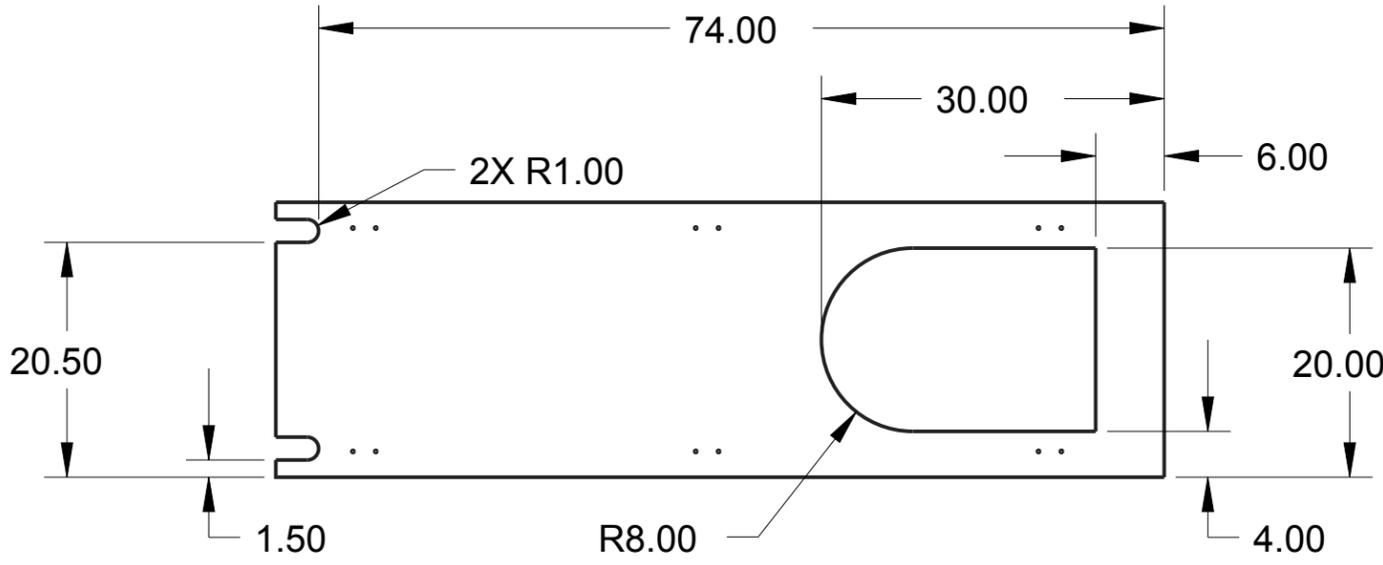
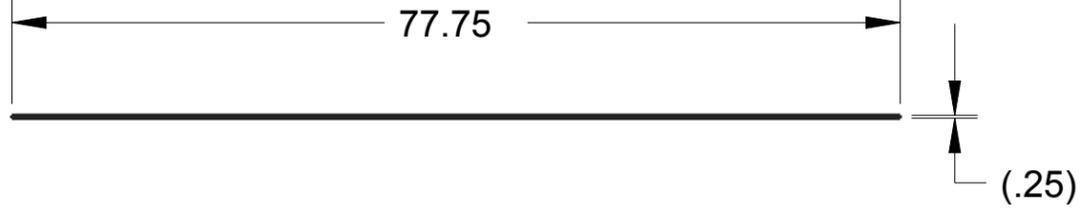
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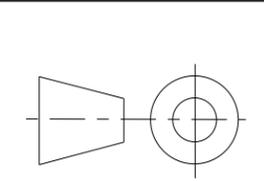
B

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NOTES:
1. MATERIAL: 1/4" THICK POLYCARBONATE, CLEAR



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



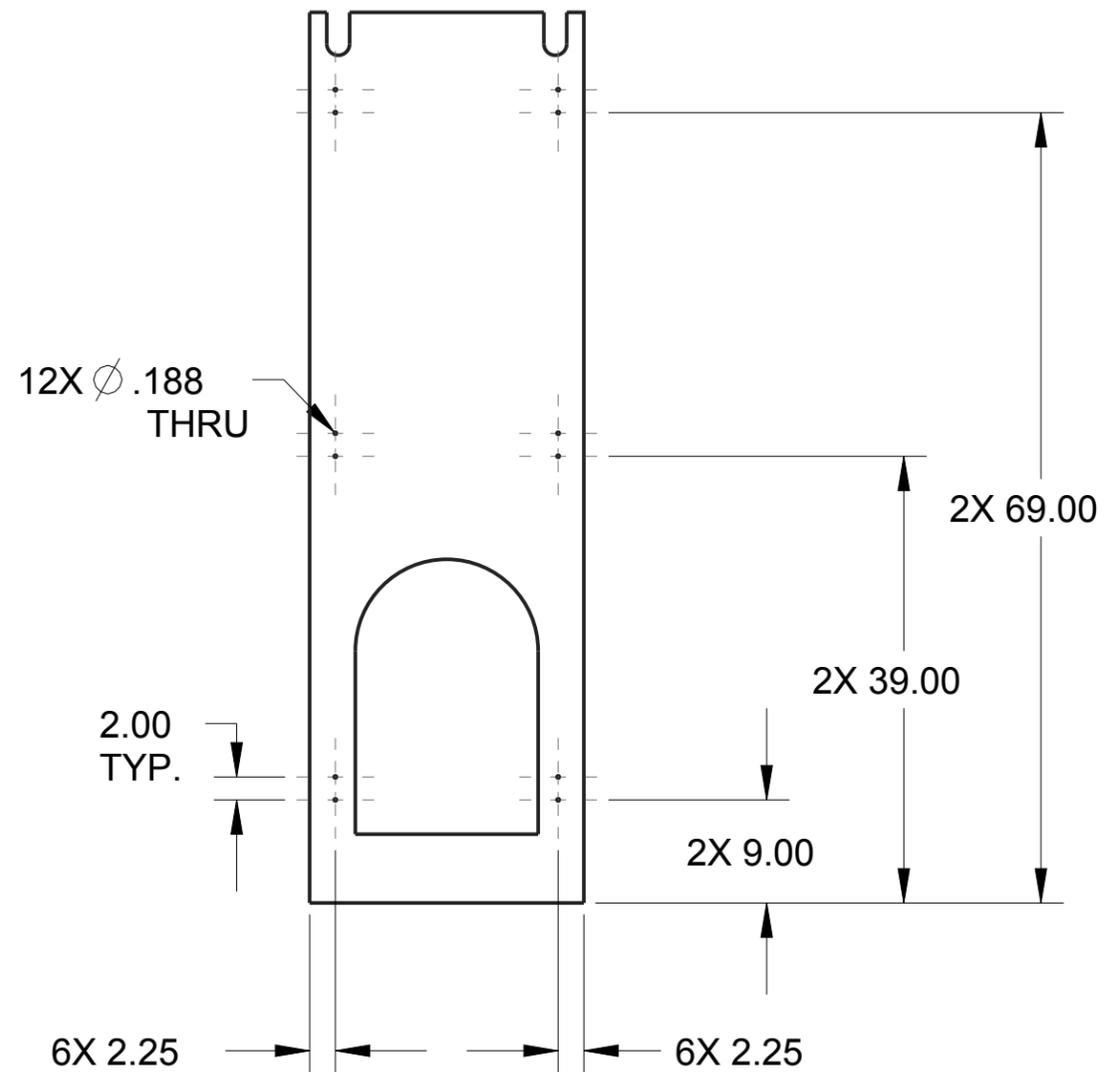
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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:16	SHEET 1 OF 2

TITLE LOW PLASTIC 1		
PROJECT	MODEL NAME GE-16069	ISSUE

MODEL NAME
GE-16069

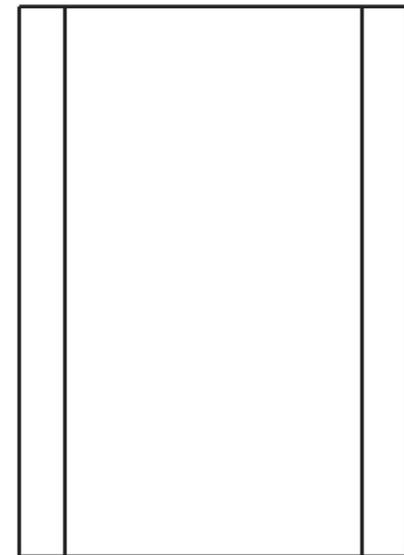
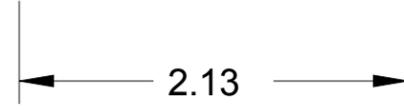
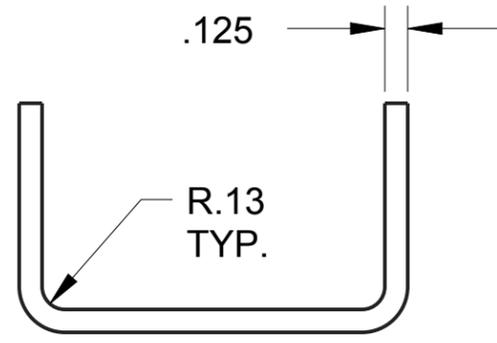
TITLE
LOW PLASTIC 1



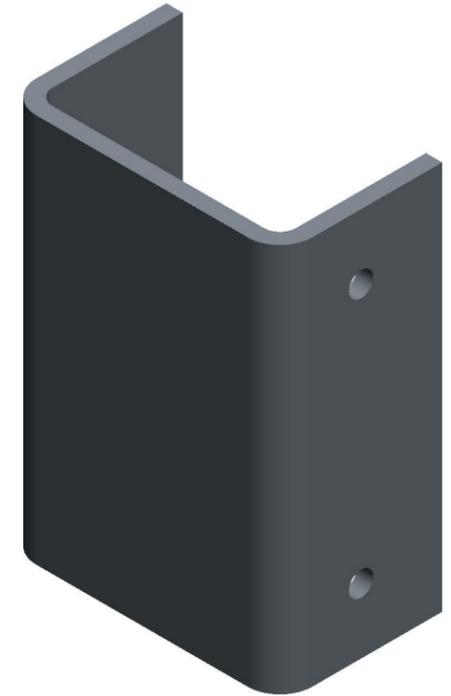
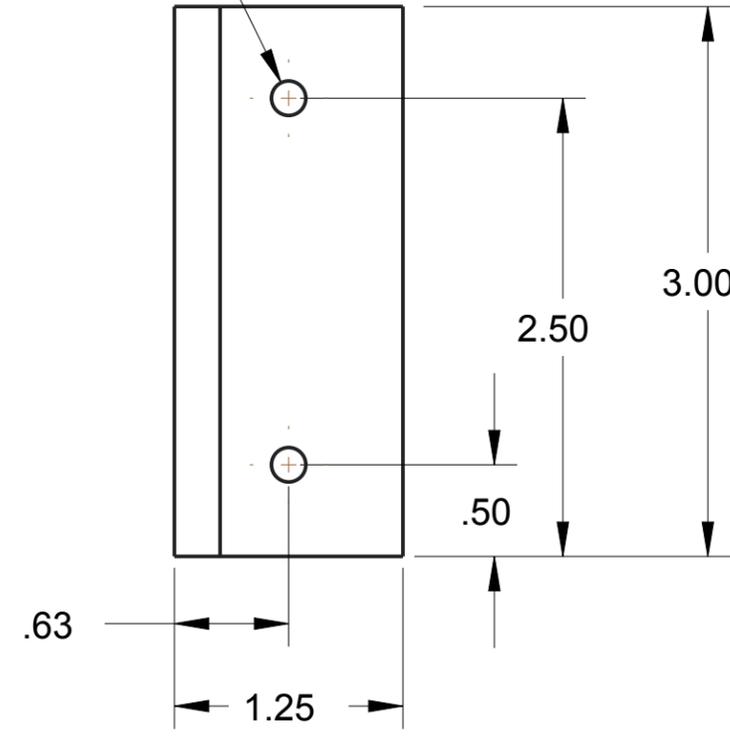
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		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE LOW PLASTIC 1	
DO NOT SCALE		PROJECT	MODEL NAME GE-16069
		ISSUE	

MODEL NAME
GE-16070

TITLE
CHANNEL, PLASTIC MOUNTING



2X ϕ .188
THRU ONE WALL



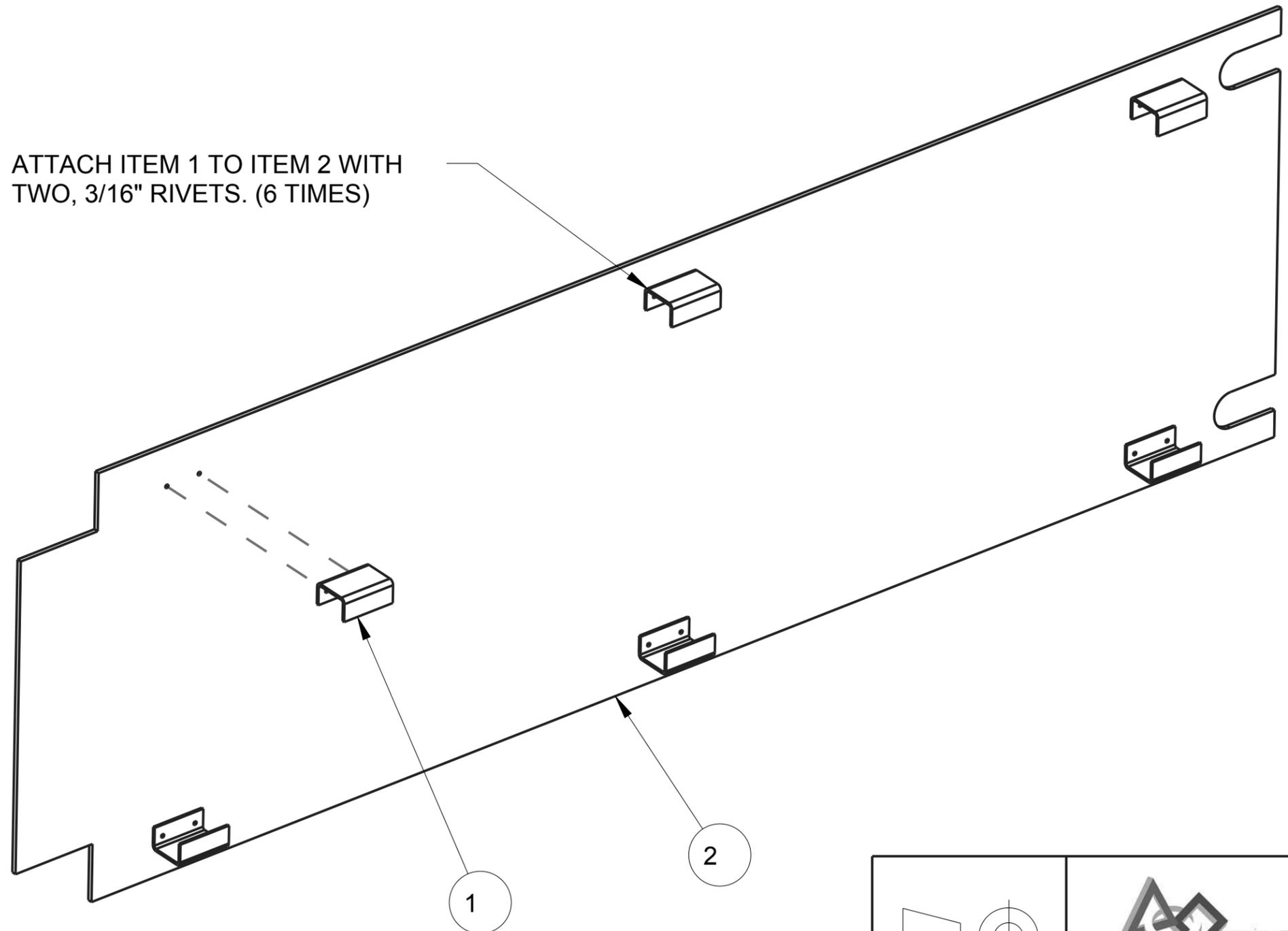
NOTES:
1. MATERIAL: 1/8" THICK 5052 ALUMINUM

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE CHANNEL, PLASTIC MOUNTING		PROJECT	ISSUE
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		MODEL NAME GE-16070	
DO NOT SCALE			

MODEL NAME
GE-16071

TITLE
LOW PLASTIC ASSEMBLY

ATTACH ITEM 1 TO ITEM 2 WITH
TWO, 3/16" RIVETS. (6 TIMES)



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16070	6	channel, low plastic	
2	GE-16072	1	low plastic	

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 1:6
SHEET 1 OF 1		
TITLE LOW PLASTIC ASSEMBLY		
PROJECT		MODEL NAME GE-16071
DO NOT SCALE		ISSUE

MODEL NAME
GE-16072

TITLE
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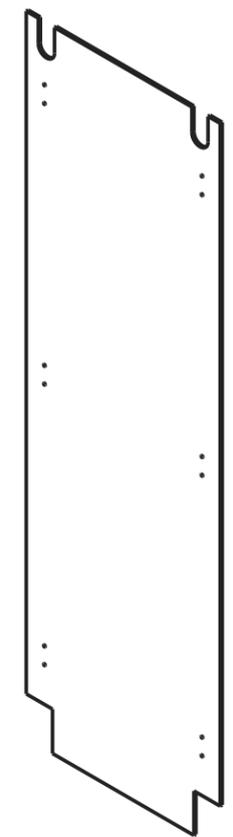
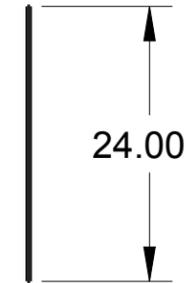
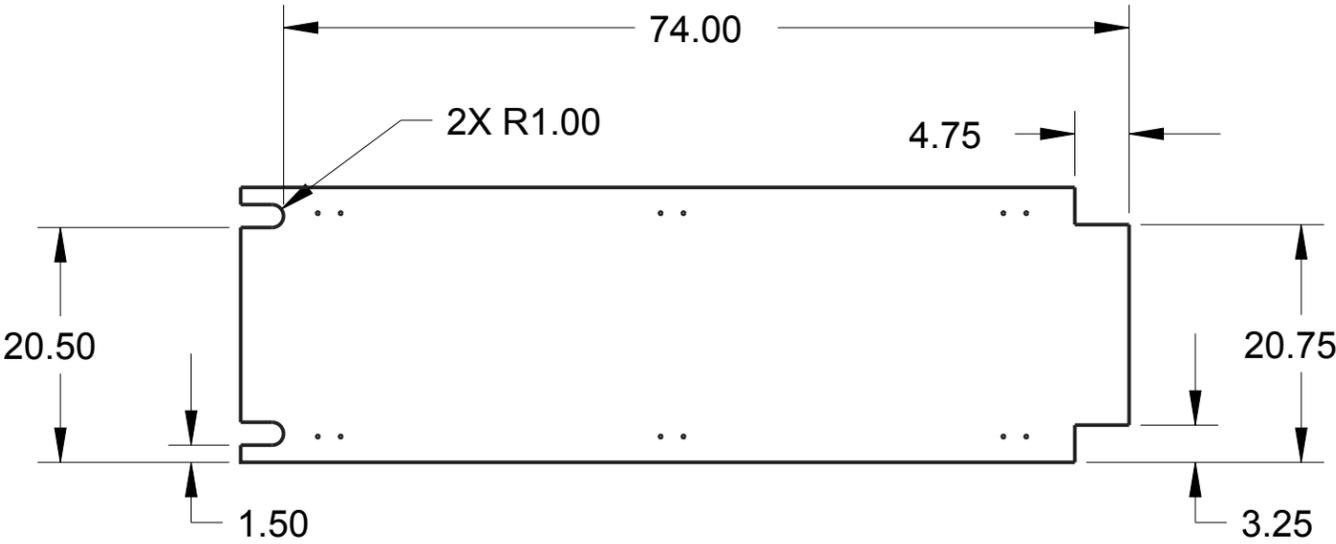
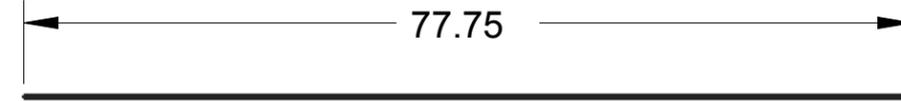
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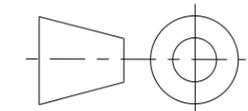
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NOTES:
1. MATERIAL: 1/4" THICK POLYCARBONATE, CLEAR



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:16	SHEET 1 OF 2

TITLE LOW PLASTIC 2	
PROJECT	MODEL NAME GE-16072
ISSUE	

MODEL NAME
GE-16072

TITLE
LOW PLASTIC 2

12X \varnothing .188
THRU

2X 69.00

2X 39.00

2X 9.00

6X 2.25

6X 2.25

2.00
TYP.



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

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SCALE 1:8 SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE

TITLE LOW PLASTIC 2		
PROJECT	MODEL NAME GE-16072	ISSUE

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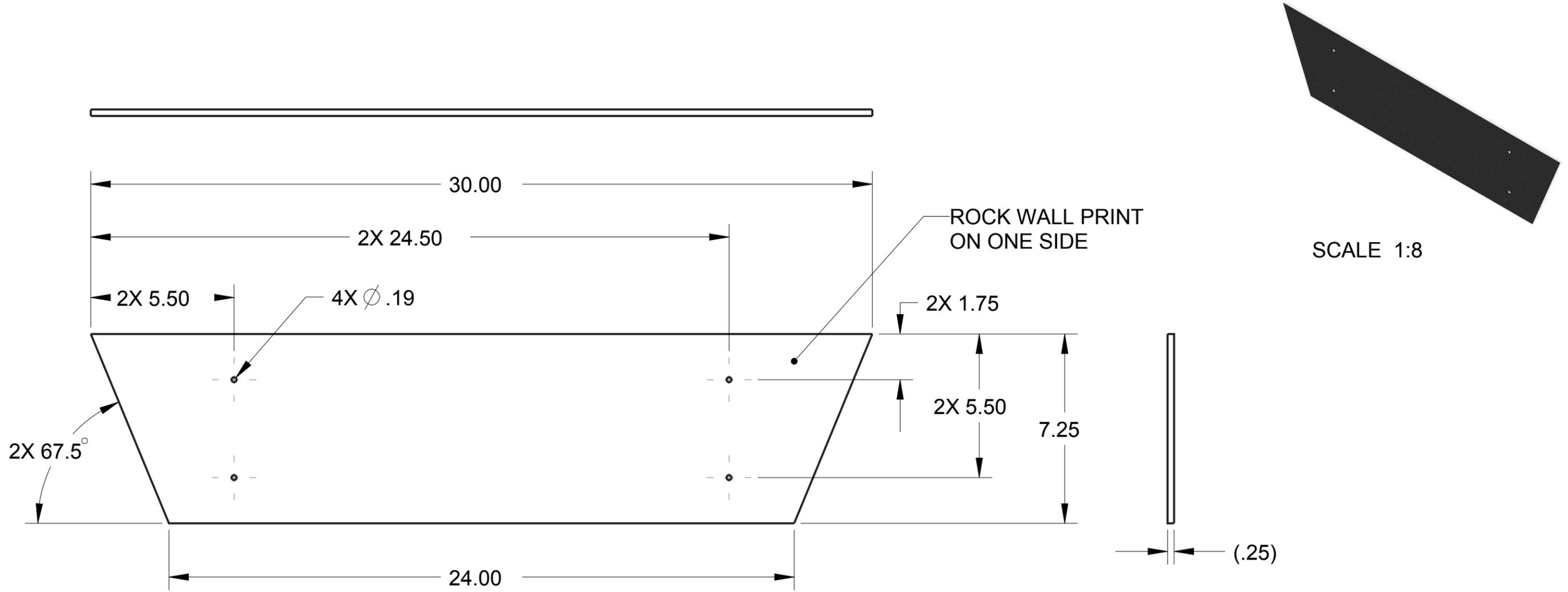
3

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MODEL NAME
GE-16073

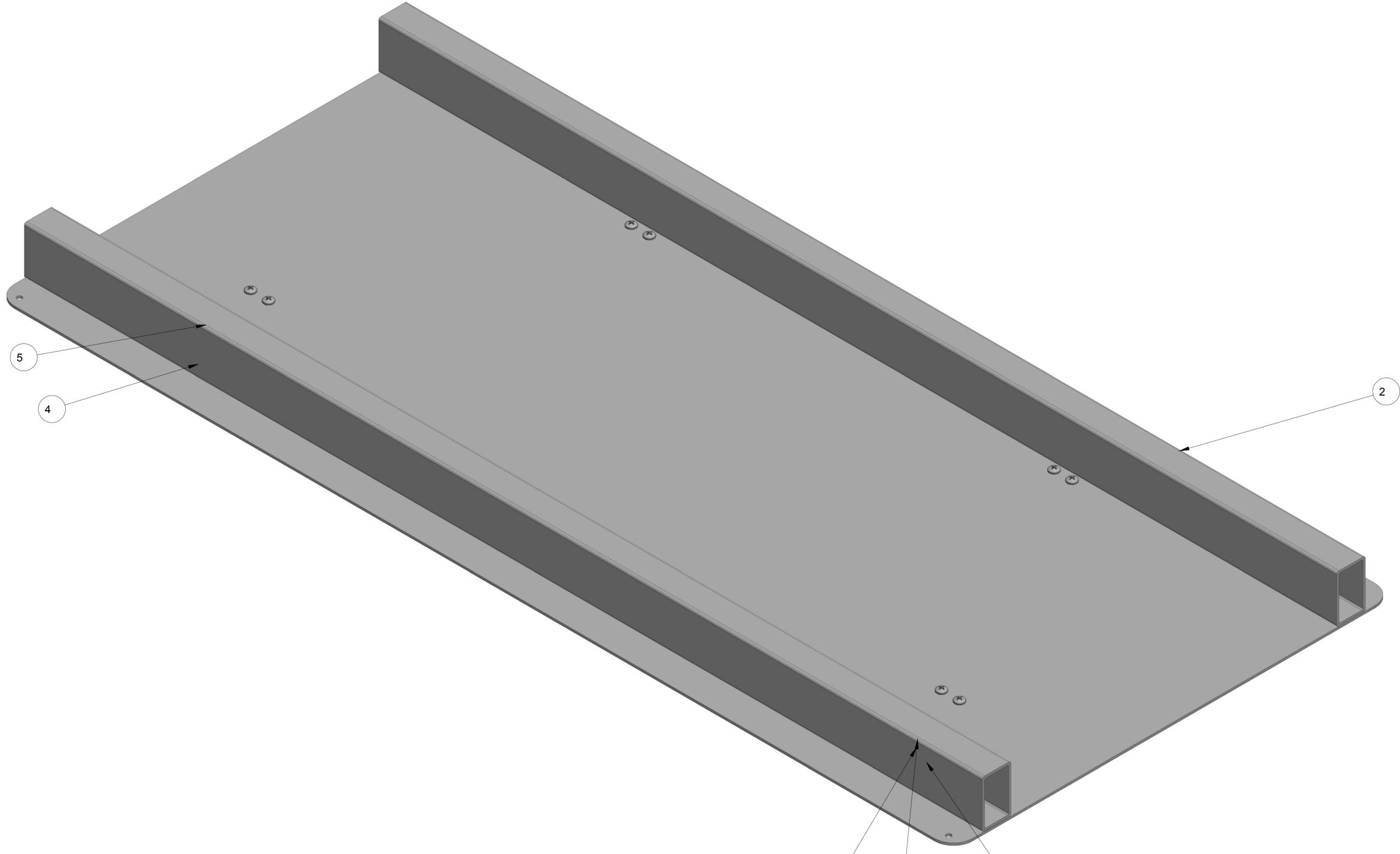
TITLE
MIDDLE PLASTIC, TOWER

REV	ZONE	DESCRIPTION	INITIAL	DATE
A	C-2	ADDED .19 HOLES (QTY 4)	DAF	12/16/15



NOTES:
1. MATERIAL: 1/4" POLYCARBONATE

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE MIDDLE PLASTIC, TOWER		
PROJECT		MODEL NAME GE-16073
DO NOT SCALE		ISSUE

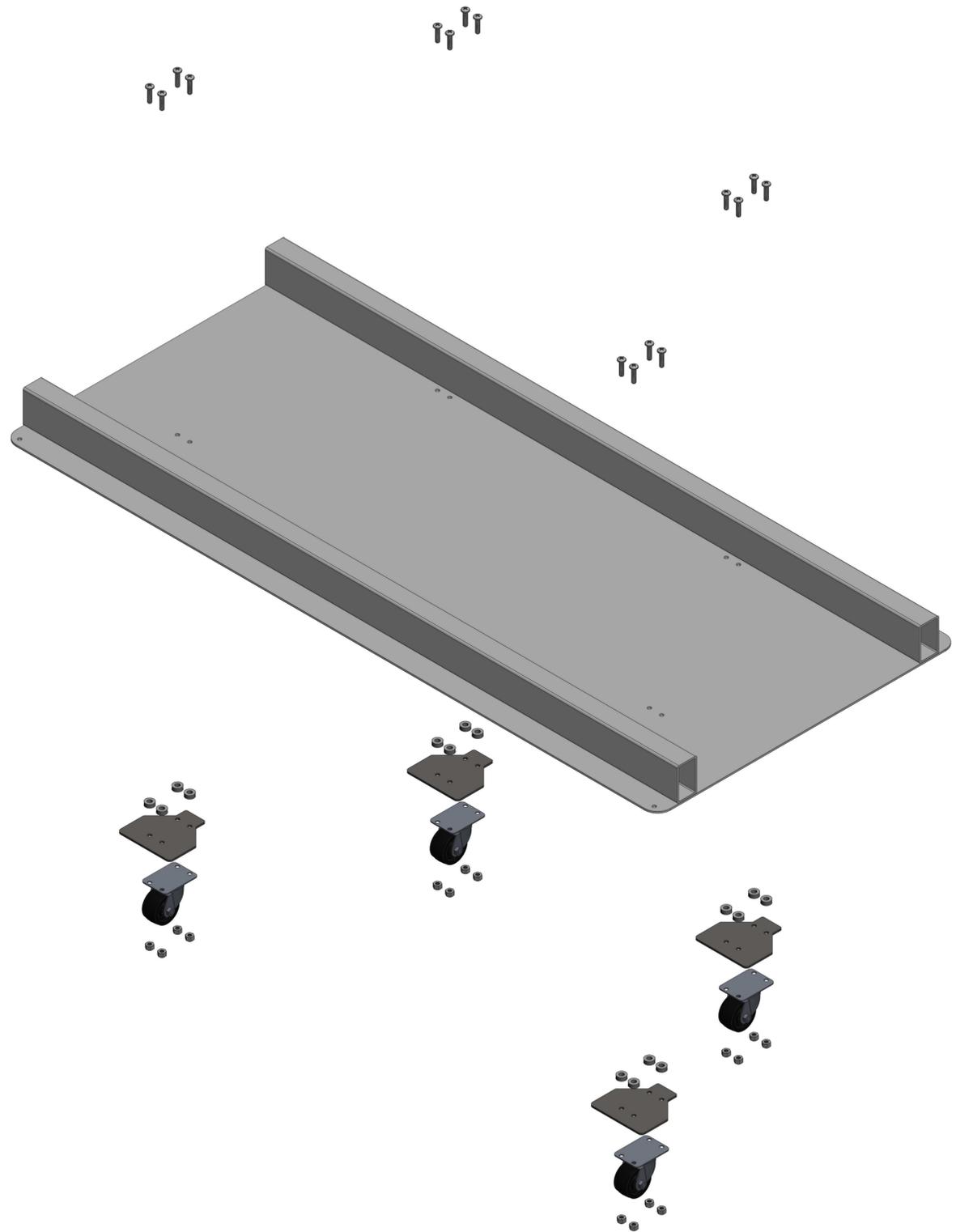


ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16076	1	moat weldment	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
4	GE-16151	4	2.5" Tall Swivel Caster	Hardware
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ±.01 XXXX ±.001 ANG ±.1</small>	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	TITLE: Moat	SCALE: 1:2 SHEET 1 OF 3
	PROJECT: _____	MODEL NAME: GE-16075
	DO NOT SCALE	ISSUE: _____

MODEL NAME
GE-16075

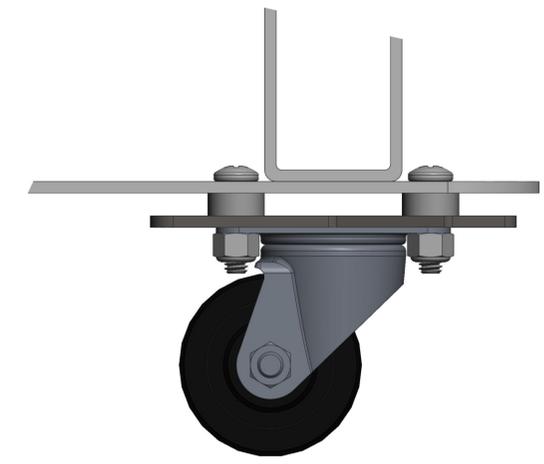
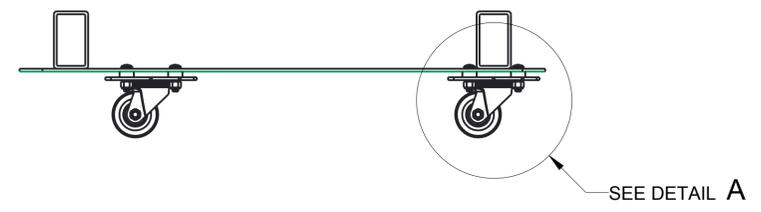
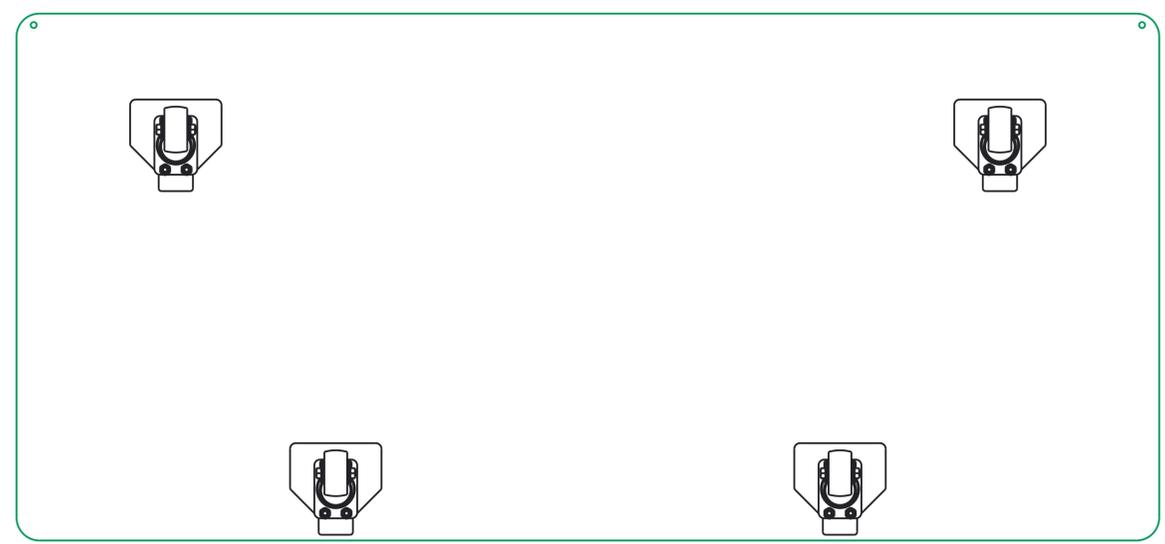
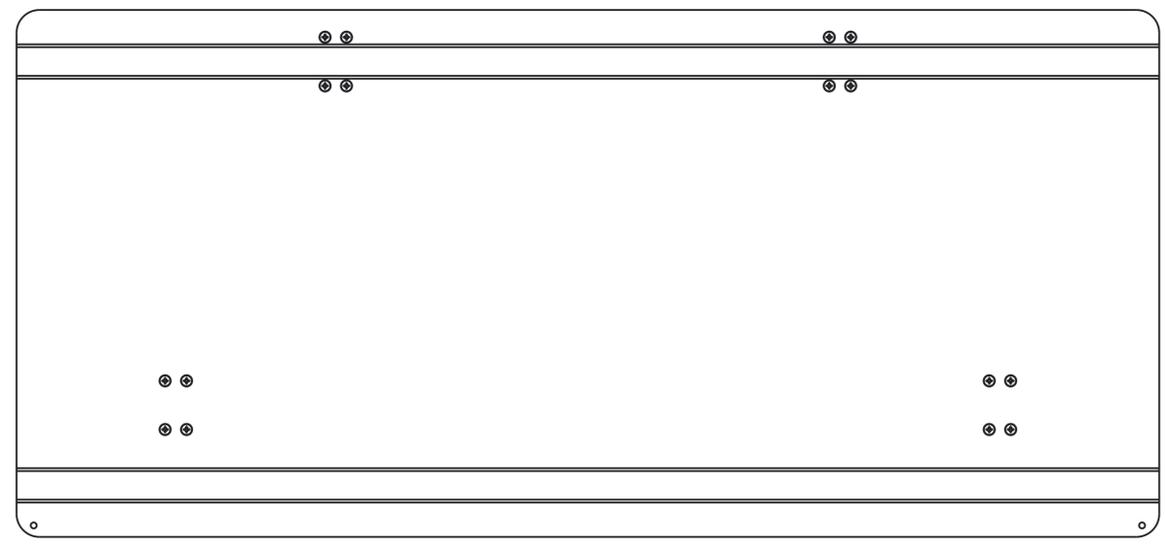
TITLE
Moat



	DRAWN BY	DATE	
	CHECKED BY	DATE	
	APPROVED BY	DATE	
	SCALE 1:4 SHEET 2 OF 3		
TITLE Moat		MODEL NAME GE-16075	ISSUE
PROJECT			

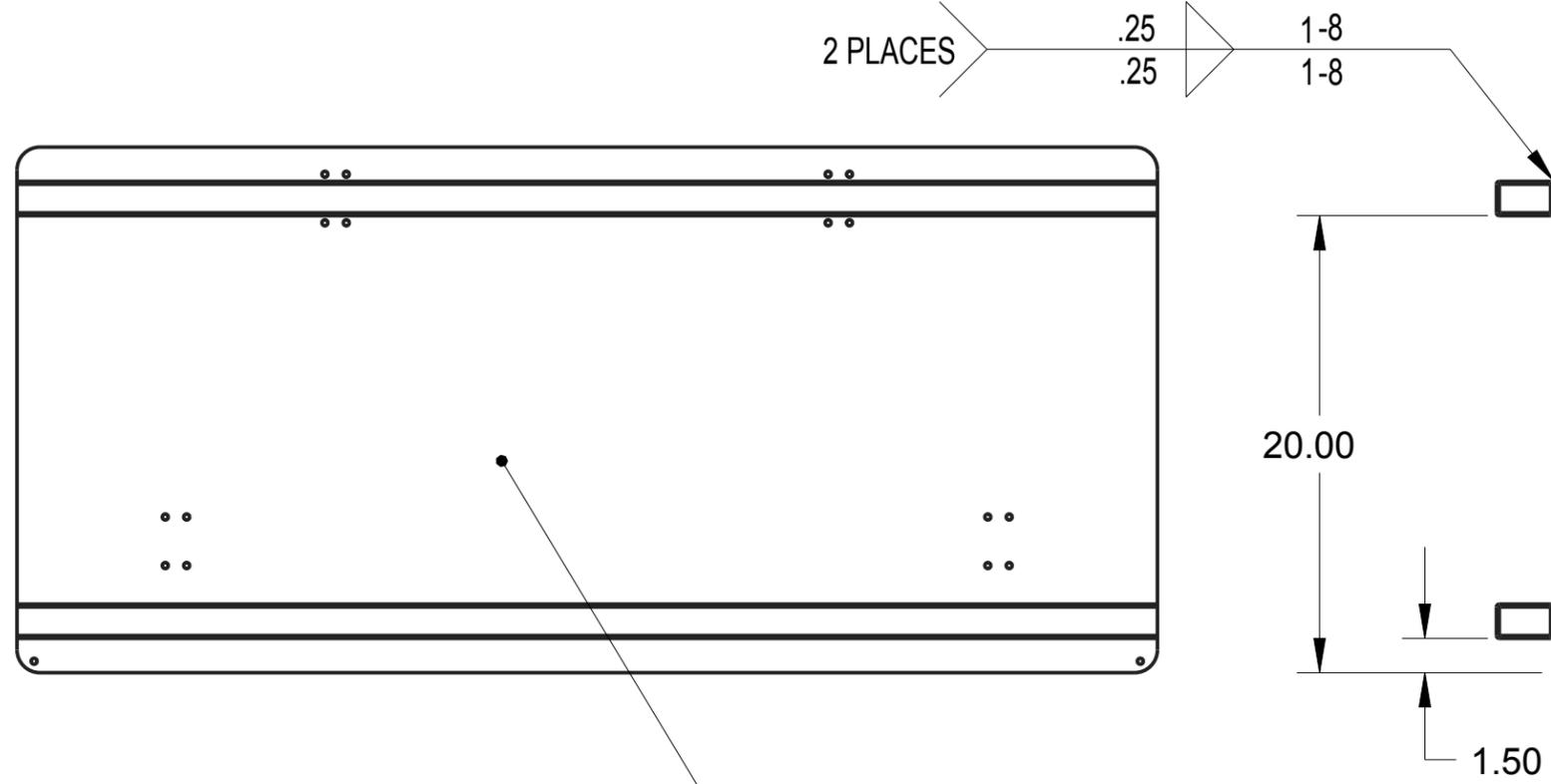
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
XXX +/- 0.1
XXX +/- 0.01
XXX +/- 0.001
ANG +/- 1

DO NOT SCALE

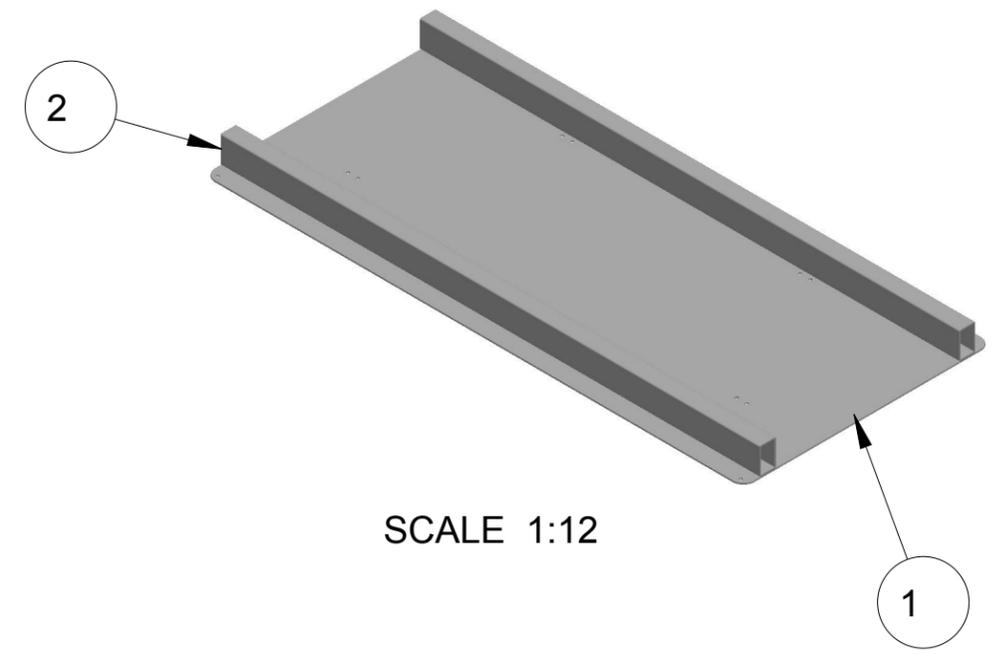


DETAIL A
 SCALE 1:1

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE: Moat		SCALE 1:2	SHEET 3 OF 3
PROJECT:		MODEL NAME: GE-16075	ISSUE:
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX ± 0.1 X.XXX ± 0.01 ANG ± 1</small>		DO NOT SCALE	



BLUE POWDERCOAT ON THIS SURFACE BETWEEN CHANNELS



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	SEE DRAWING
2	GE-16076-01	2	steel tubing	1.5" X 2.5" STEEL TUBING

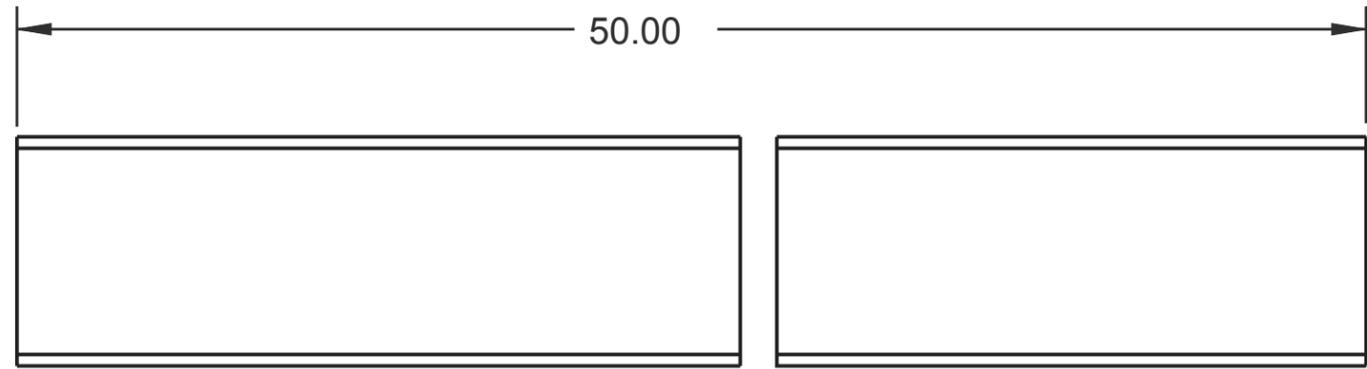
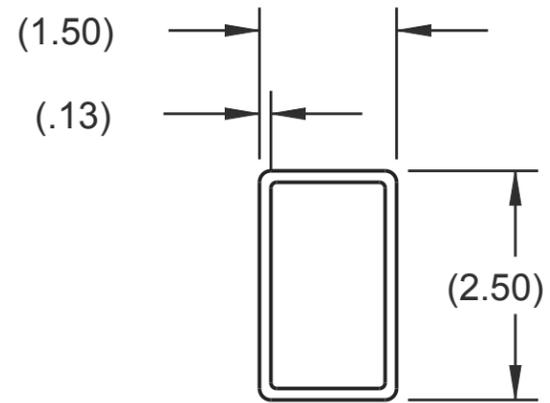
NOTES:
1. FINISH: GRAY POWDERCOAT UNLESS OTHERWISE SPECIFIED.
REMOVE ALL BURRS AND SHARP EDGES.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE M WELDMENT		
PROJECT		MODEL NAME GE-16076
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE

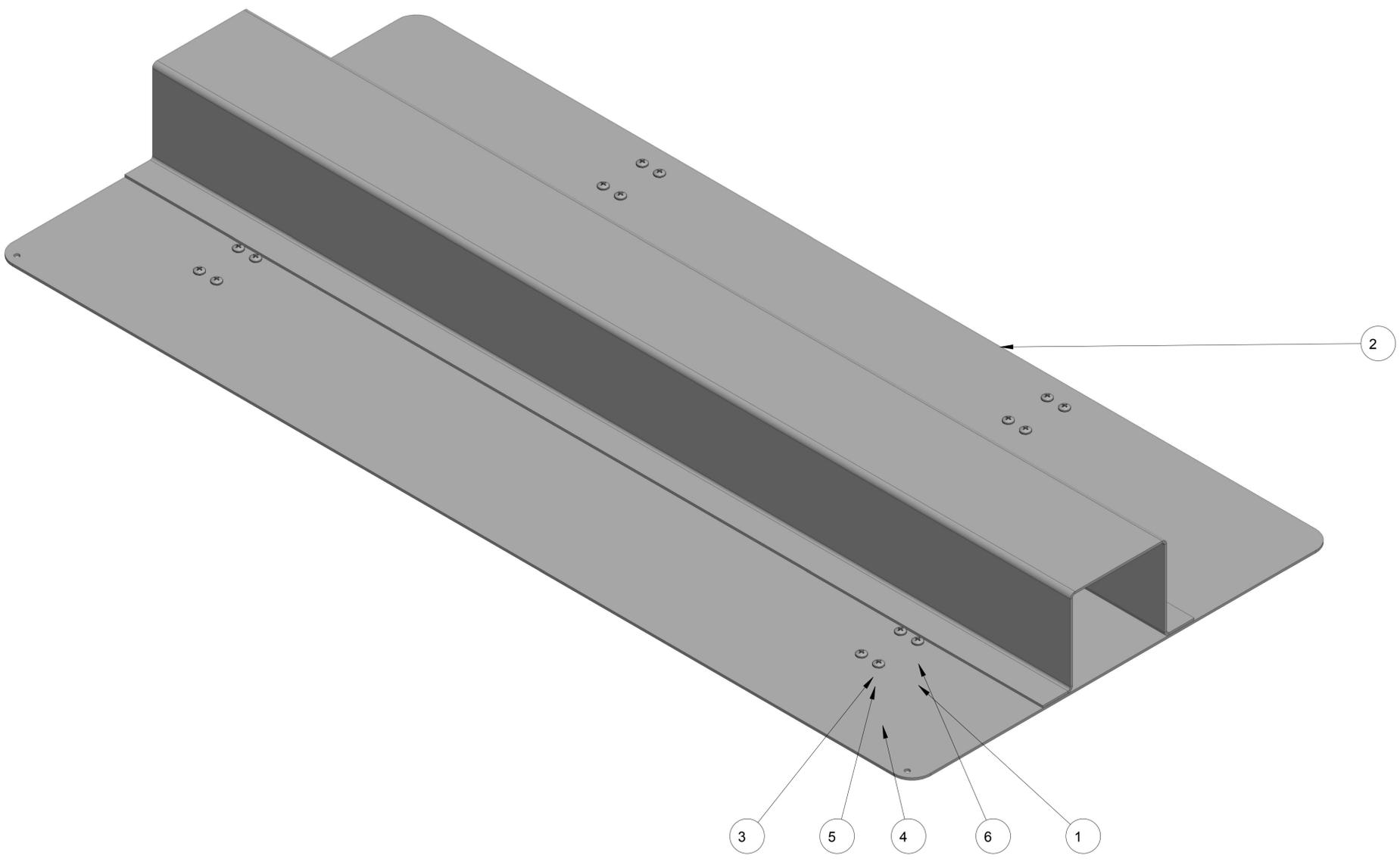
MODEL NAME
GE-16076

TITLE
M WELDMENT



PART: GE-16076-01
 QTY: 2
 MATERIAL: 1.5" X 2.5" X .125" STEEL TUBING

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE <p style="text-align: center;">M WELDMENT</p>	
DO NOT SCALE		PROJECT	MODEL NAME <p style="text-align: center;">GE-16076</p>
		ISSUE	



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16081	1	rock wall weldment	See Drawing
3	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
4	GE-16151	4	2.5" Tall Swivel Caster	Hardware
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 XXXX +/- 0.001 ANG +/- .1</small> DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE Rock Wall		PROJECT	ISSUE
		MODEL NAME GE-16080	

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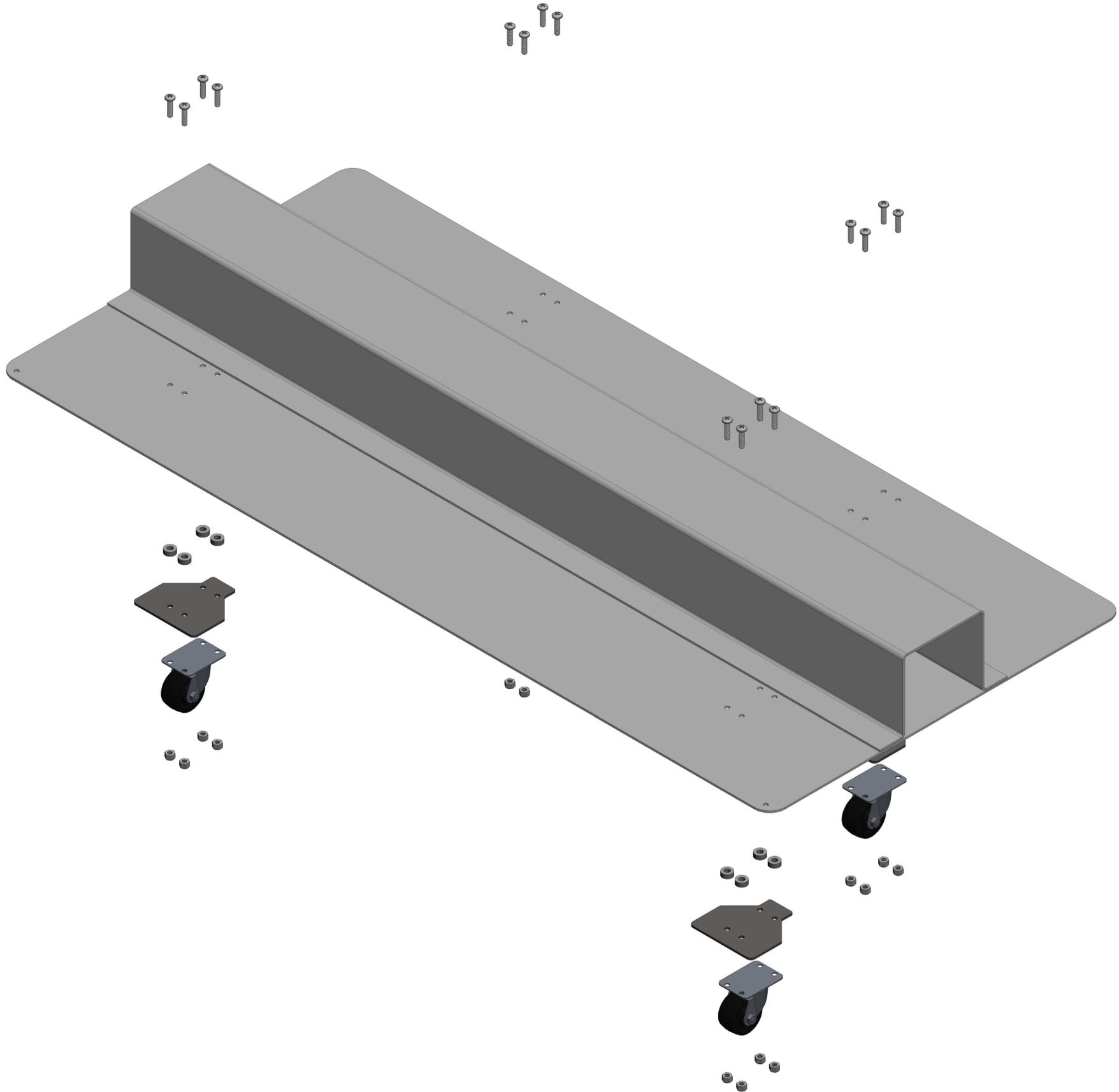
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1 2 3 4 5 6 7 8

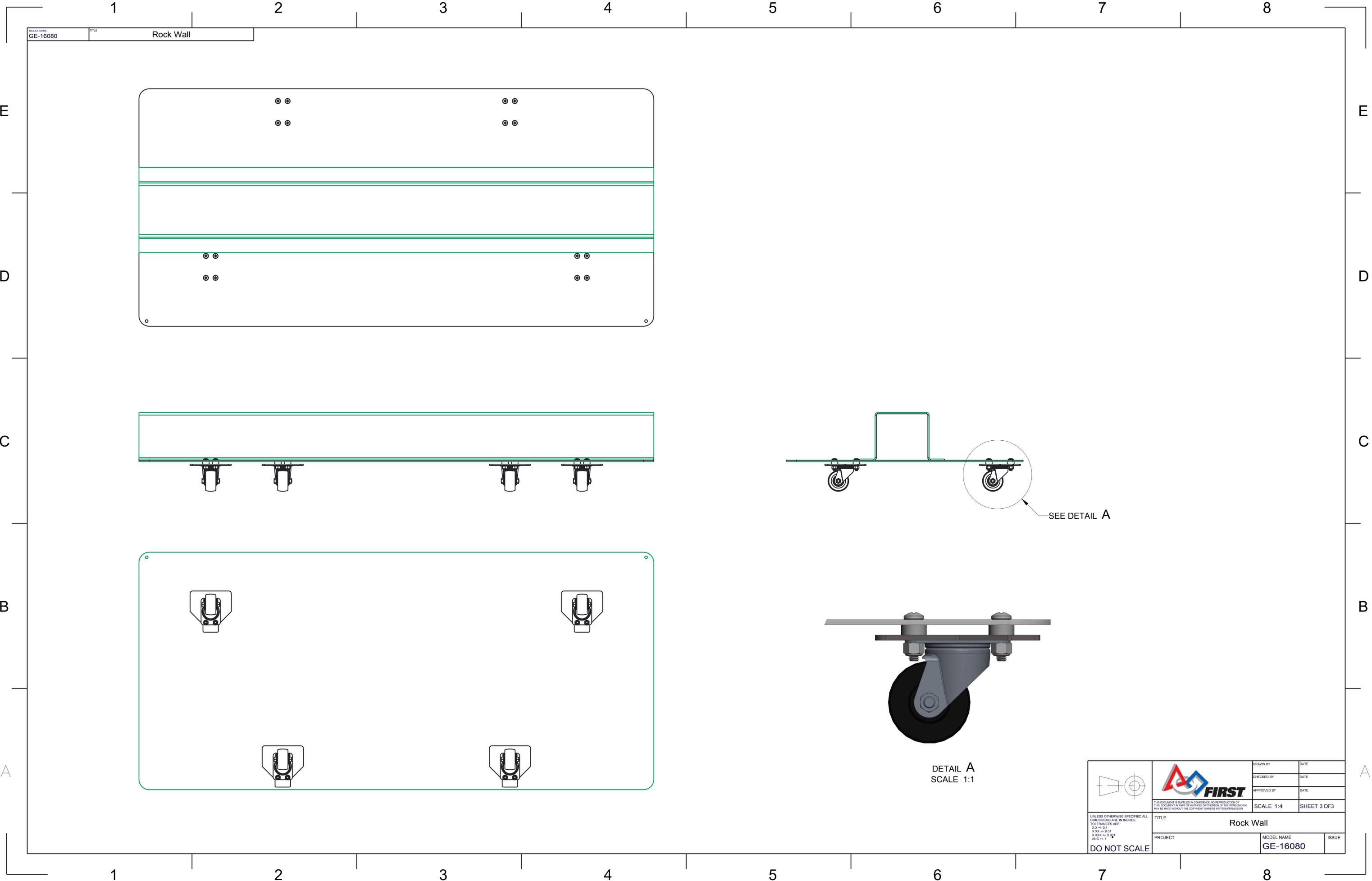


SCALE 3:8

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>	
TITLE: Rock Wall		SCALE 3:8 SHEET 2 OF 3	
PROJECT:		MODEL NAME: GE-16080	ISSUE:
DO NOT SCALE			

MODEL NAME
GE-16080

TITLE
Rock Wall



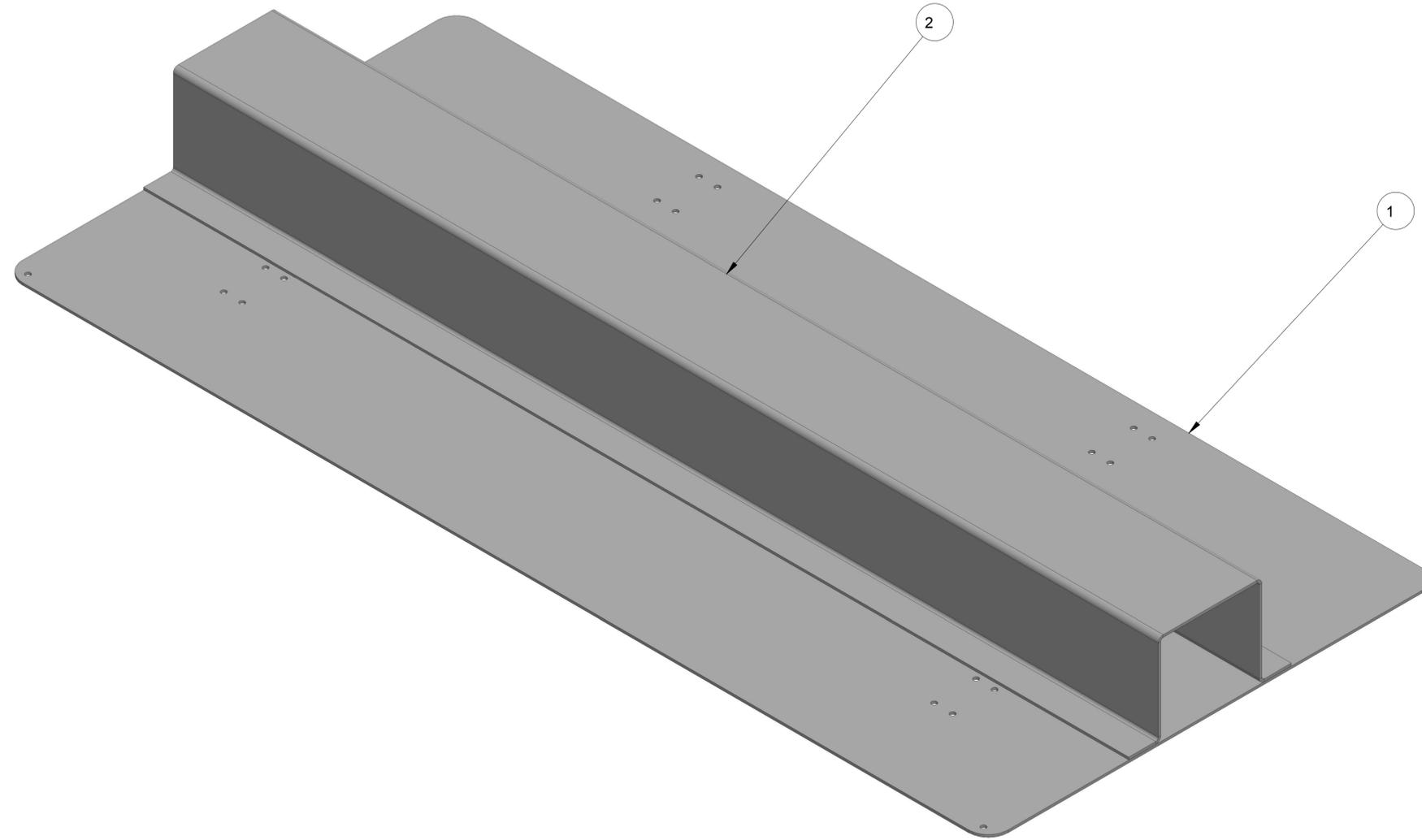
SEE DETAIL A

DETAIL A
SCALE 1:1

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1</p> <p>DO NOT SCALE</p>	<p>TITLE Rock Wall</p>		
	<p>PROJECT</p>	<p>MODEL NAME GE-16080</p>	<p>ISSUE</p>
	<p>SCALE 1:4</p>	<p>SHEET 3 OF 3</p>	
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<p>DRAWN BY</p>	<p>DATE</p>		
<p>CHECKED BY</p>	<p>DATE</p>		
<p>APPROVED BY</p>	<p>DATE</p>		

MODEL NAME: GE-16081
 TITLE: Rock Wall Base

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	Sheet 2, D2	Modified Assembly Distance	NJS	1/19/16



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	See Drawing for DEFENSE HOLDER_BASE
2	GE-16081-01	1	steel bump	SEE DRAWING FOR LOW_WALL

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1 DO NOT SCALE</small>	<small>DRAWN BY</small> <small>CHECKED BY</small> <small>APPROVED BY</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small>
	<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>	
	<small>SCALE 3:8</small>	
	<small>SHEET 1 OF 2</small>	
<small>TITLE</small> Rock Wall Base		
<small>PROJECT</small>		<small>MODEL NAME</small> GE-16081
		<small>ISSUE</small>

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Hold distance from
 Front of Base to
 First Wall of Top
 Hat

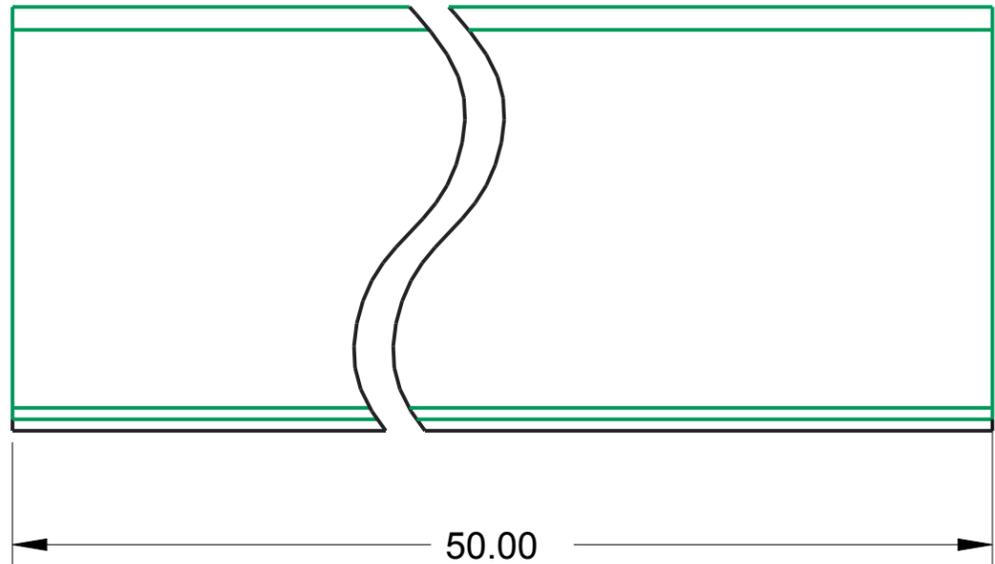
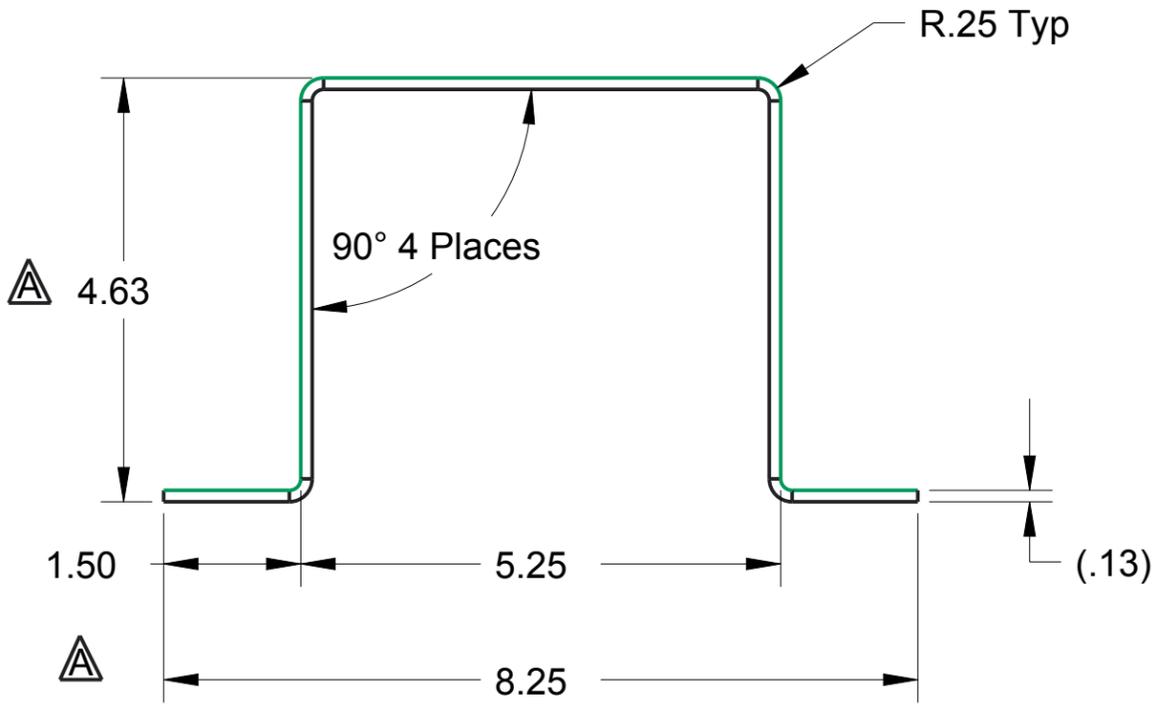
 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small> DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE Rock Wall Base		PROJECT	ISSUE
		MODEL NAME GE-16081	

1 2 3 4 5 6 7 8

MODEL NAME
GE-16081-01

TITLE
Low Wall

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	B1 B1 A1	Adjusted dimensions Moved Height Dim to bottom of part Adjusted Material Note	NJS	1/19/16



NOTE

\triangle Material: Steel Sheet, .125" Thick
Scale: 1:2

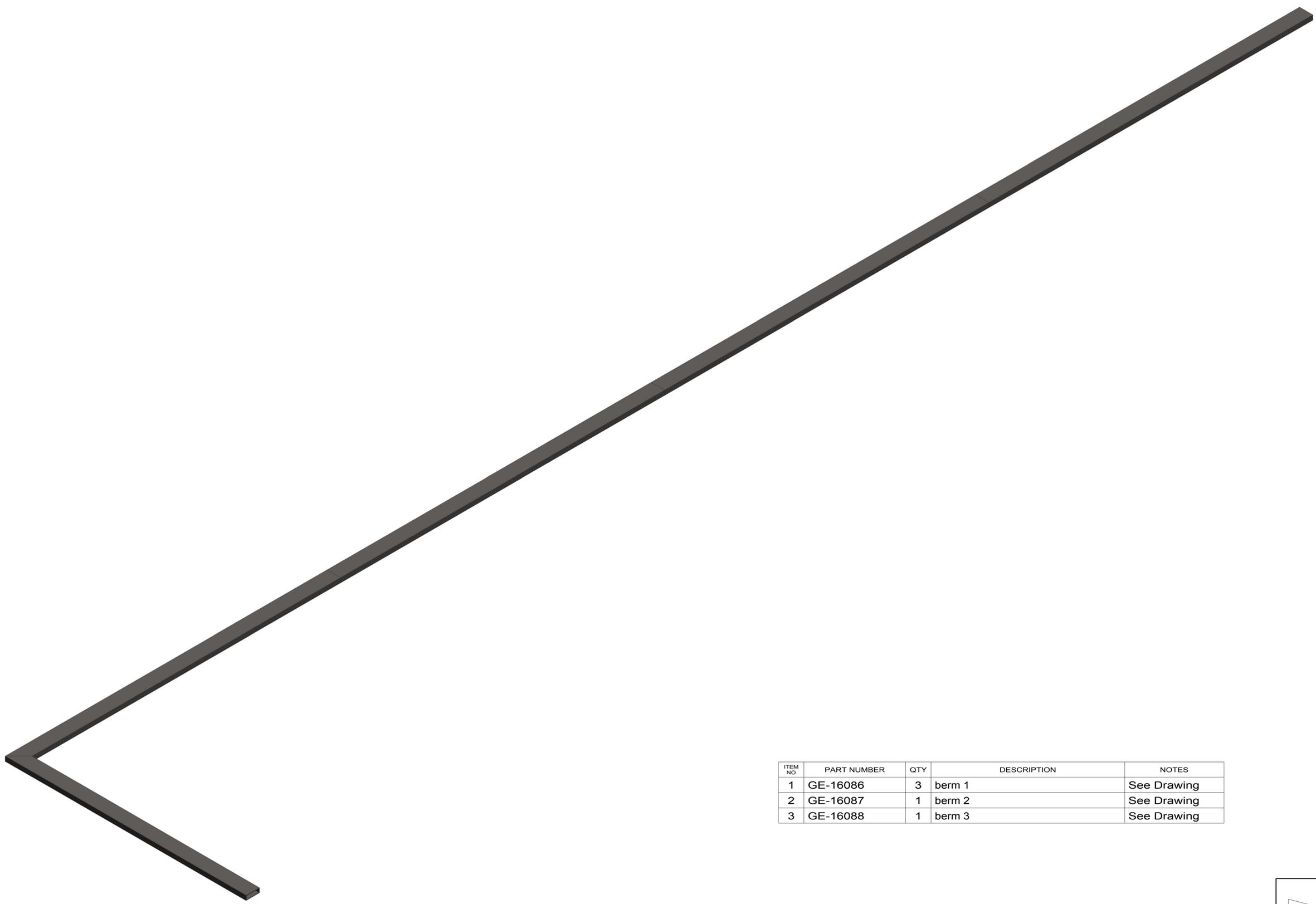
Remove all burrs and sharp edges

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Low Wall		
PROJECT		MODEL NAME GE-16081-01
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

MODEL NAME: GE-16085
 TITLE: Berm Assembly



ITEM NO.	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16086	3	berm 1	See Drawing
2	GE-16087	1	berm 2	See Drawing
3	GE-16088	1	berm 3	See Drawing

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small> DO NOT SCALE	<small>DRAWN BY</small> <small>CHECKED BY</small> <small>APPROVED BY</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small>
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	TITLE Berm Assembly	
	<small>PROJECT</small>	<small>MODEL NAME</small> GE-16085

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1 2 3 4 5 6 7 8

MODEL NAME: GE-16085
TITLE: Berm Assembly

1

2

3

4

5

6

7

8

E

E

D

D

C

C

B

B

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1 DO NOT SCALE	TITLE Berm Assembly	
	PROJECT	MODEL NAME GE-16085
SCALE 3:32		SHEET 2 OF 3
ISSUE		

1

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1 2 3 4 5 6 7 8

E

E

287.50

53.50

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NOTE: Each piece of the Berm will have Hook fastener on the bottom of it so that it adheres to the carpet.

NOTE: Each Berm section will be powder coated either Red or Blue. Those colors are not shown in this assembly drawing to help avoid confusion. Mechanically both Berms on the field are the same, but they are aesthetically different.

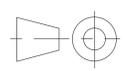
B

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1 2 3 4 5 6 7 8

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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DO NOT SCALE		SCALE 3:32	SHEET 3 OF 3
TITLE Berm Assembly		MODEL NAME GE-16085	ISSUE

MODEL NAME
GE-16086

TITLE
B 2

1

2

3

4

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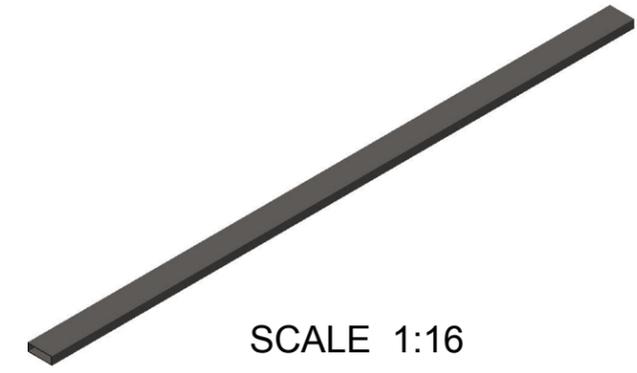
C

B

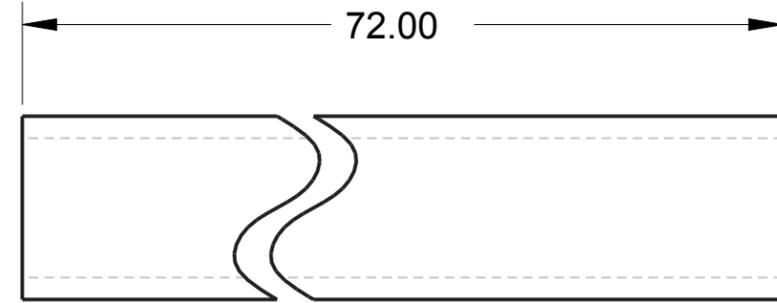
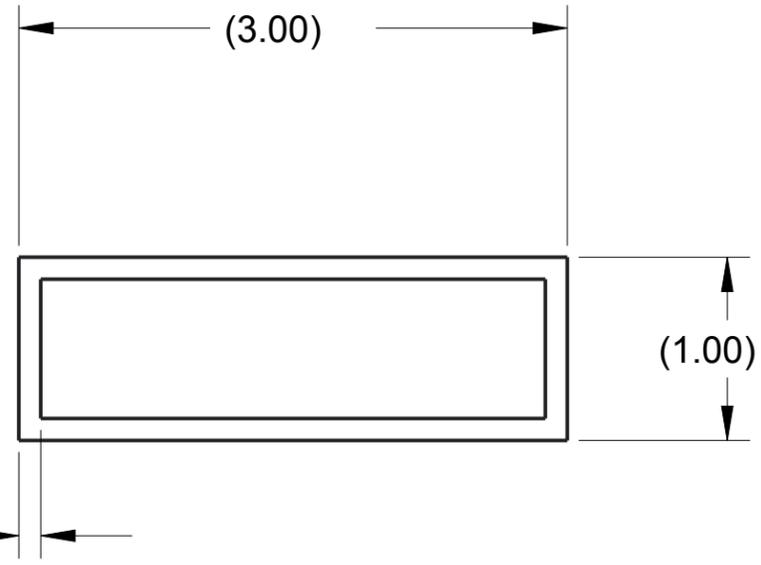
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A

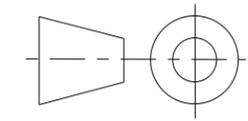


SCALE 1:16



NOTE

Material: 3" x 1" Rectangular Steel Tube, .12" Wall
 Scale: 1:1
 Finish: Red or Blue Powder Coat based on Qty Notes



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 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°
DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:1	SHEET 1 OF 1

TITLE	B 2	
PROJECT	MODEL NAME	ISSUE
	GE-16086	

MODEL NAME
GE-16087

TITLE
B 1

1

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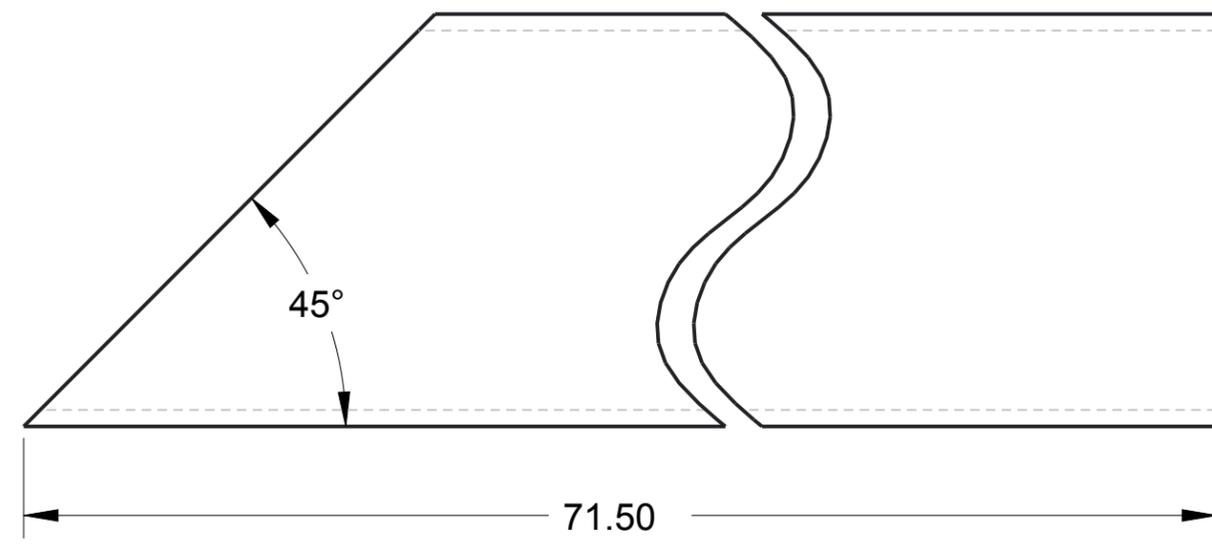
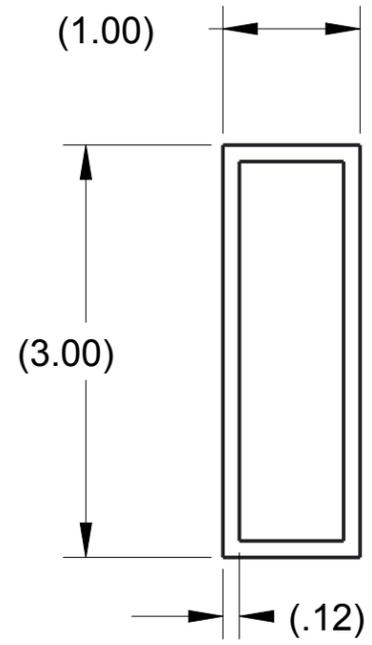
C

B

B

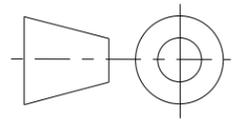
A

A



NOTE

Material: 3" x 1" Rectangular Steel Tube, .12" Wall
Scale: 3:4
Finish: Red or Blue Powder Coat based on Qty Notes

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE <p style="text-align: center;">B 1</p>	
DO NOT SCALE		PROJECT	MODEL NAME GE-16087
			ISSUE

1

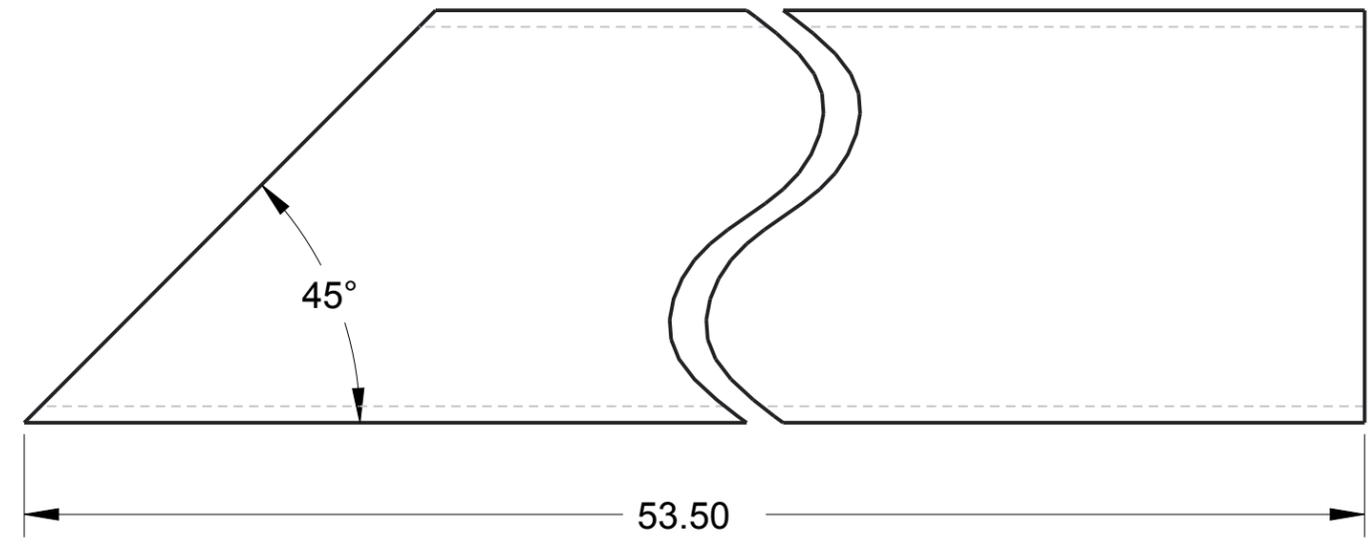
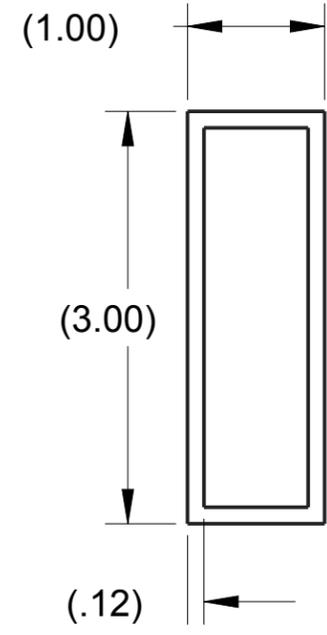
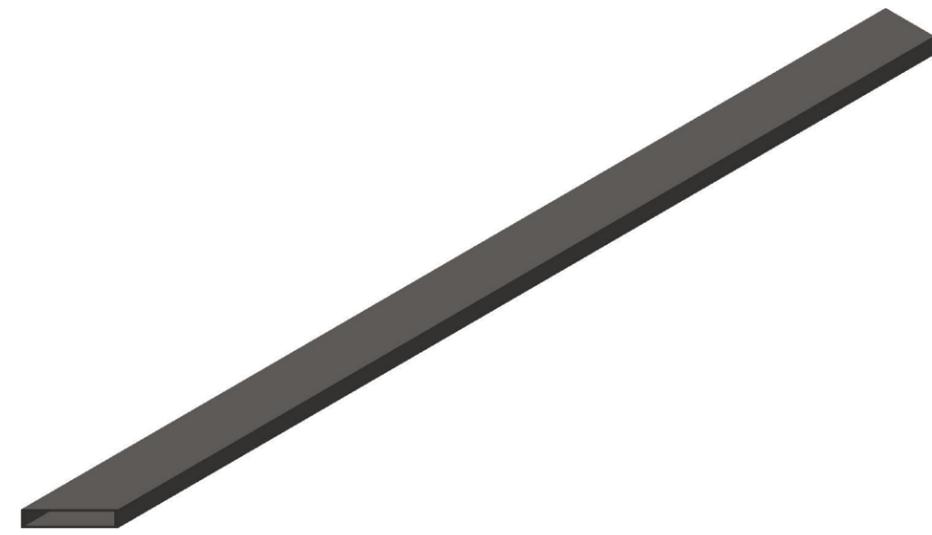
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3

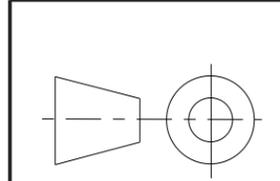
4

MODEL NAME
GE-16088

TITLE
B 3



NOTE
Material: 3" x 1" Rectangular Steel Tube, .12" Wall
Scale: 3:4
Finish: Red or Blue Powder Coat based on Qty Notes



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



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APPROVED BY	DATE
SCALE 3:4	SHEET 1 OF 1

TITLE B 3		
PROJECT	MODEL NAME GE-16088	ISSUE

MODEL NAME
GE-16091

TITLE
EMT, BC

1

2

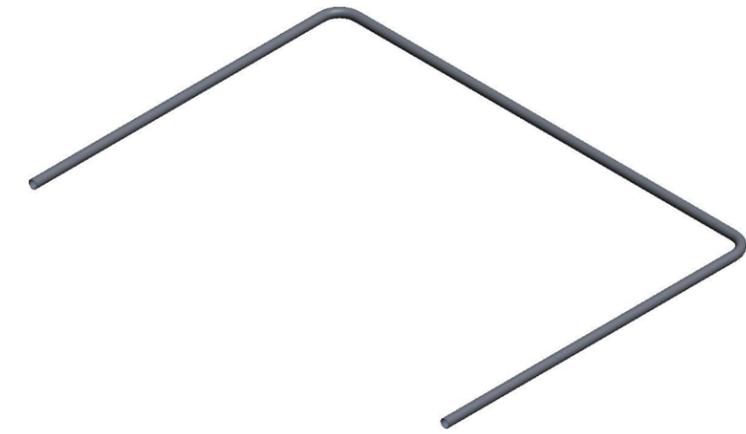
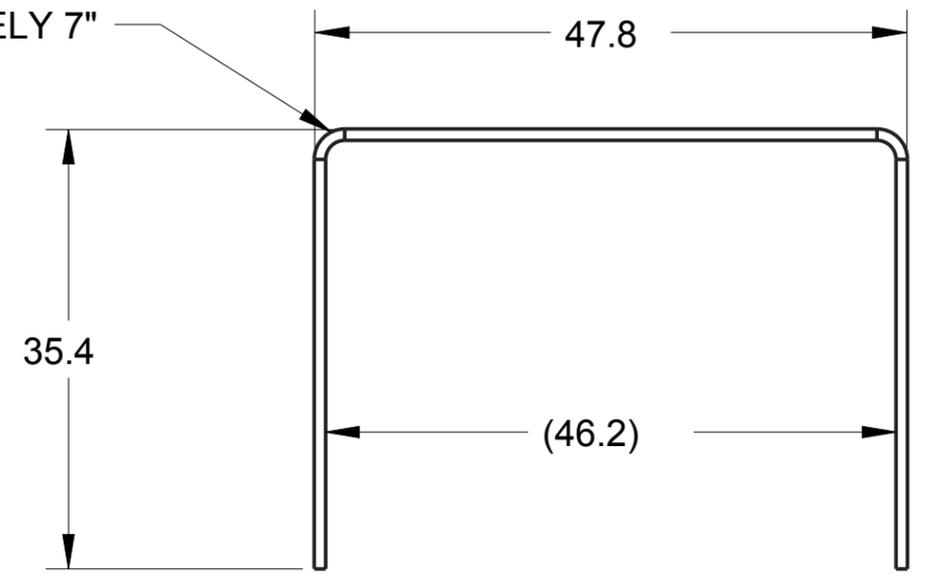
3

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RADIUS APPROXIMATELY 7"



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NOTES:

- 1. MATERIAL: 3/4" EMT CONDUIT
- 2. REMOVE ALL BURRS AND SHARP EDGES.
- 3. CONNECTORS MAY BE USED IF NECESSARY.

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TITLE EMT, BC		
PROJECT		MODEL NAME GE-16091
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

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MODEL NAME
GE-16093

TITLE
SIDE, BC

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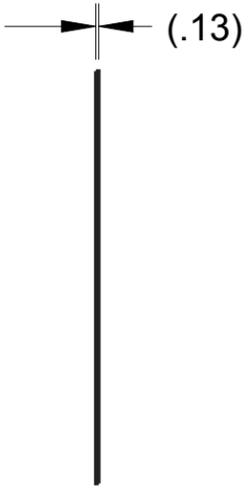
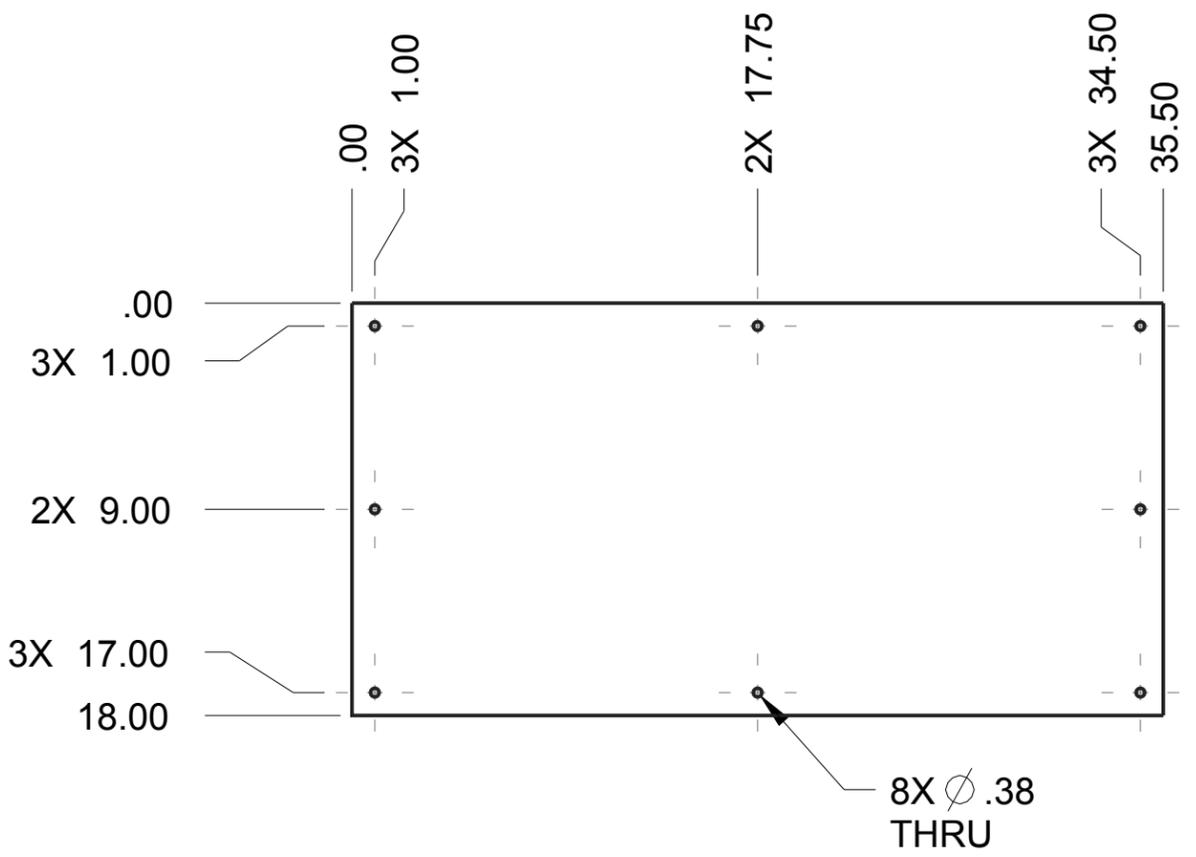
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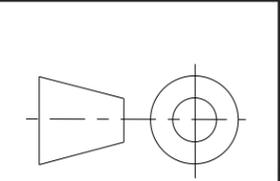
B

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NOTES:
1. MATERIAL: 1/8" CLEAR POLYCARBONATE
2. REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

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APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1

TITLE
SIDE, BC

PROJECT	MODEL NAME GE-16093	ISSUE
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1

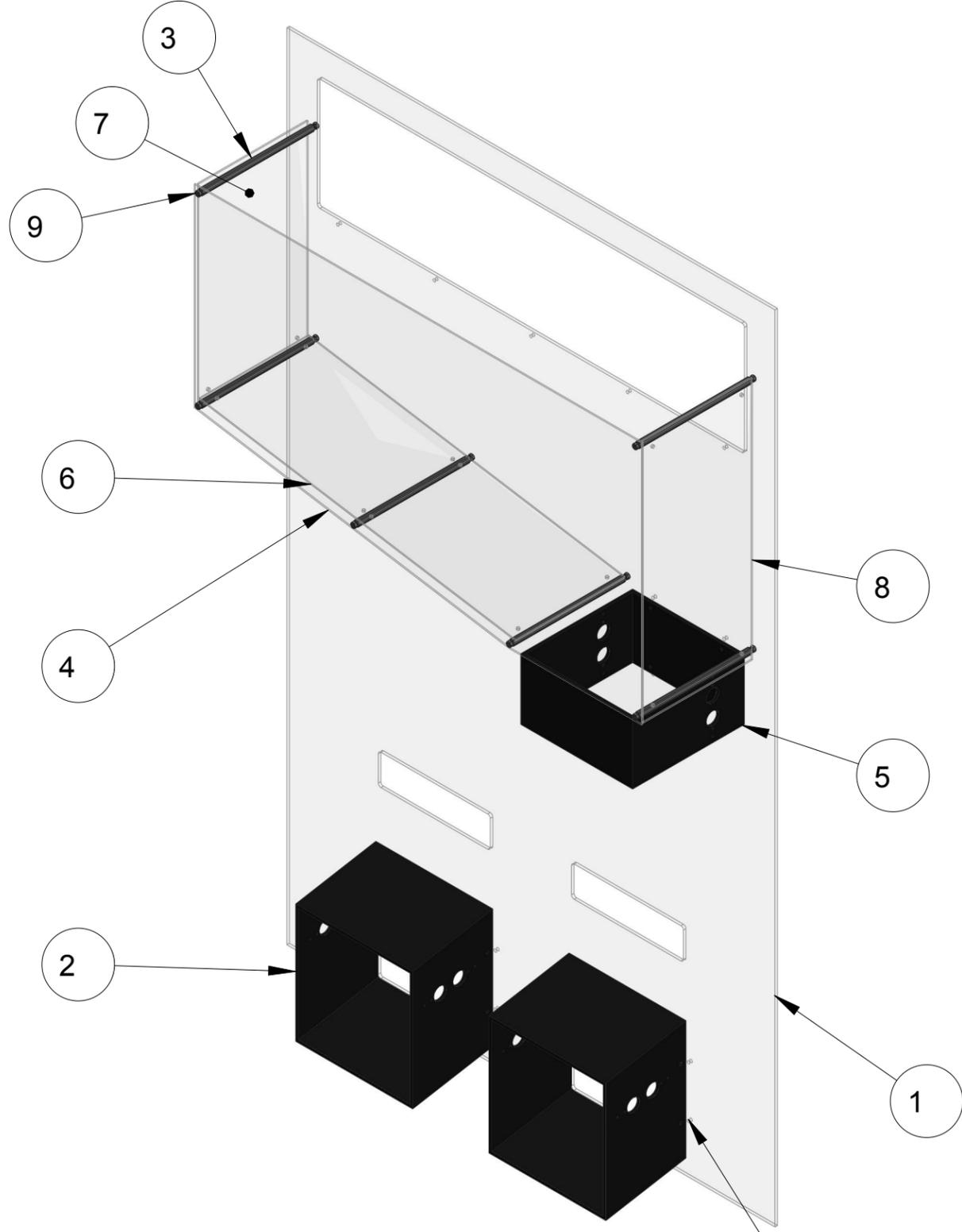
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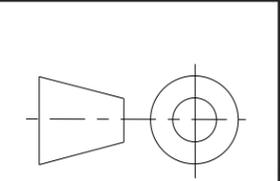
MODEL NAME
GE-16097

TITLE
SCORING PANEL ASSEMBLY



ATTACH ITEMS 2 AND 5 WITH CABLE TIES.
4 PLACES EACH.

ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16098	1	back panel, tower
2	GE-16099	2	scoring box, low
3	GE-16100	6	churro, 11"
4	GE-16101	1	scoring plate
5	GE-16102	1	scoring box, high
6	GE-16103	1	ramp, back panel
7	GE-16104	1	side, back panel
8	GE-16105	1	side 2, back panel
9	HW-00012	12	CAP SCREW, HEX, 1/4-20 X .75"



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X.X +/- 0.1
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SCALE 19:192 SHEET 1 OF 1

TITLE
SCORING PANEL ASSEMBLY

PROJECT	MODEL NAME GE-16097	ISSUE
---------	------------------------	-------

MODEL NAME
GE-16098

TITLE
LOWER PANEL

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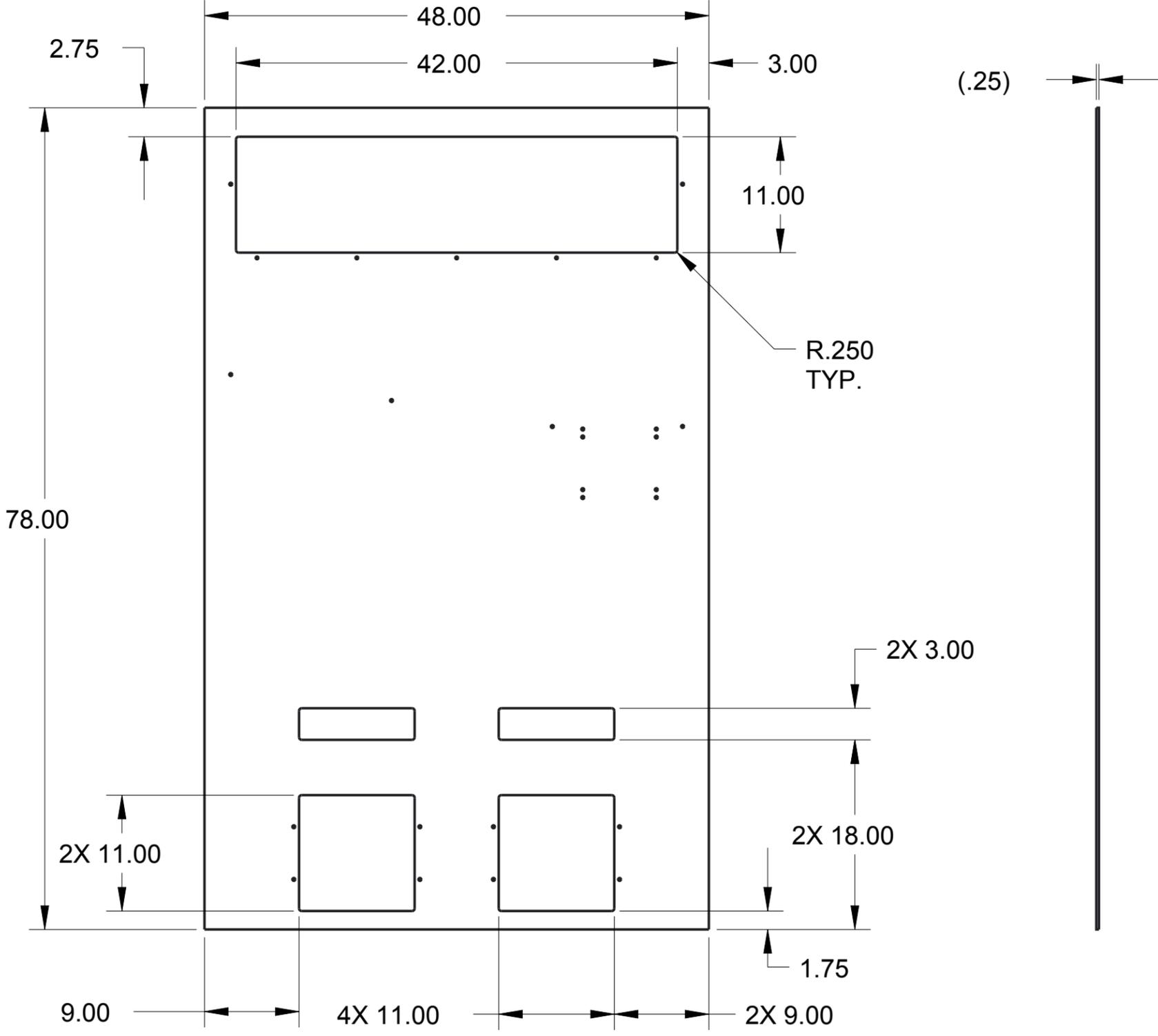
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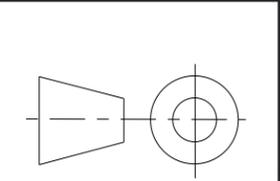
B

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NOTES:
 1. MATERIAL: 1/4" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
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 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE



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APPROVED BY	DATE
SCALE 1:12	SHEET 1 OF 2

TITLE LOWER PANEL		
PROJECT	MODEL NAME GE-16098	ISSUE

MODEL NAME
GE-16098

TITLE

1

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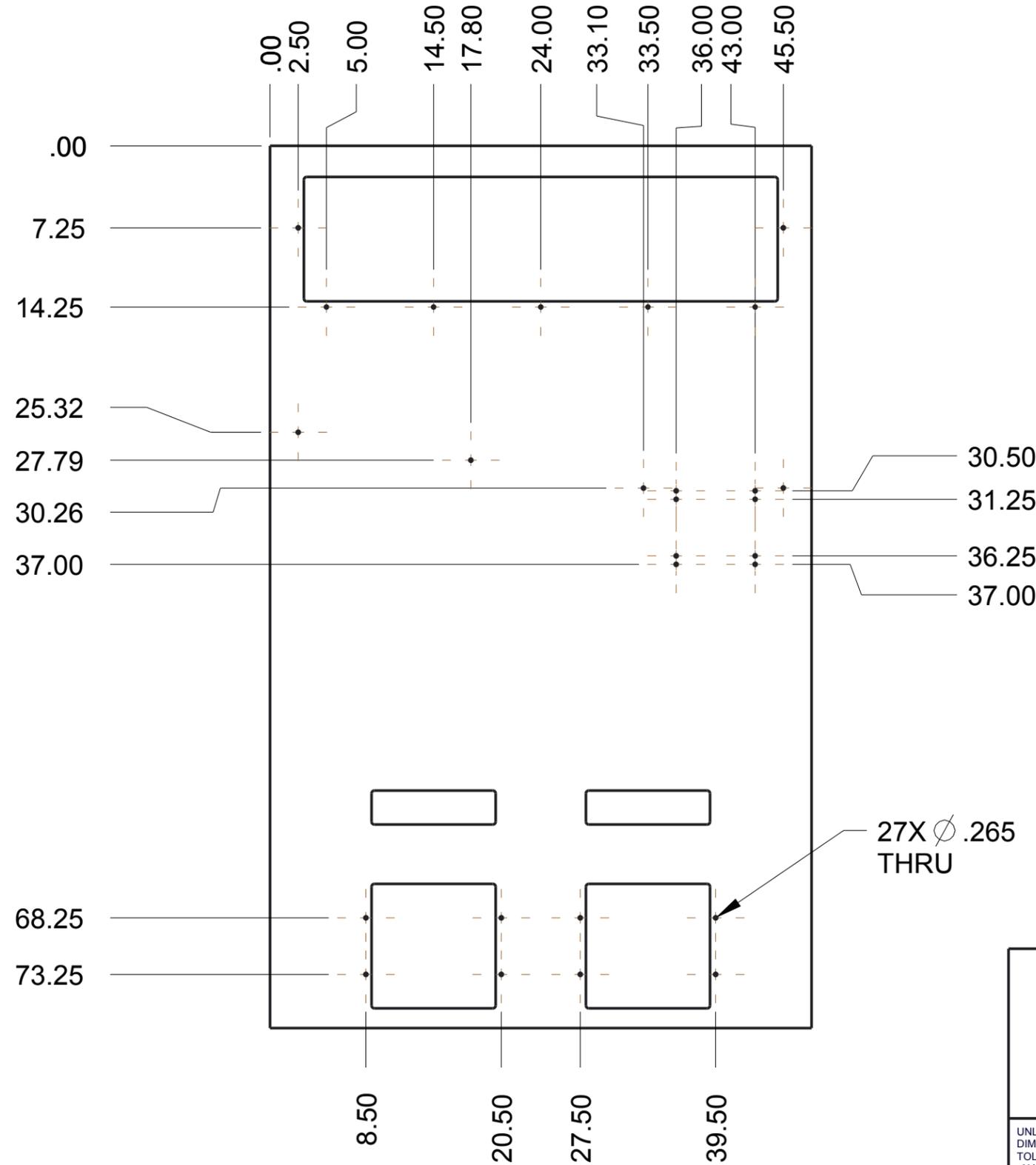
C

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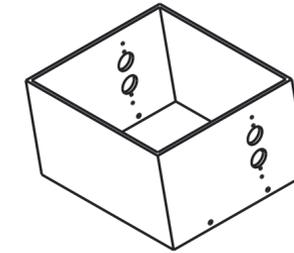
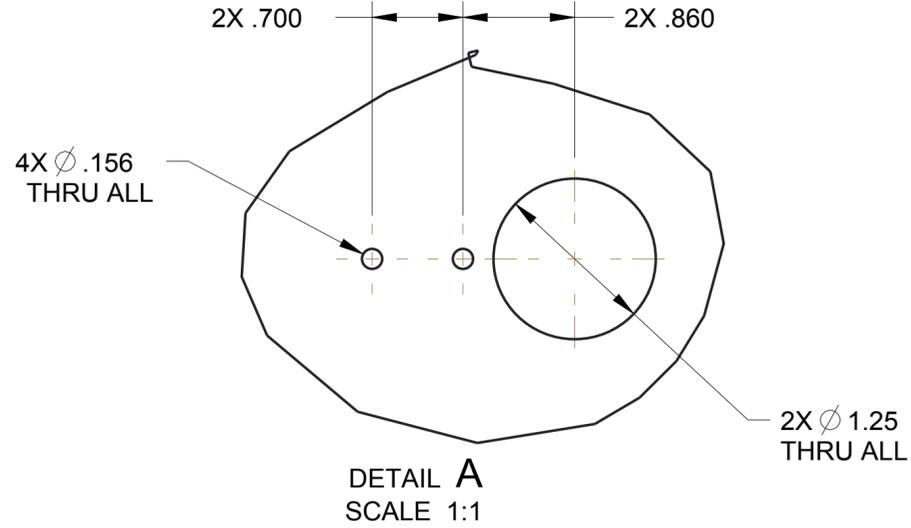
A



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	APPROVED BY	DATE
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	PROJECT	
DO NOT SCALE		SCALE 1:12
MODEL NAME GE-16098		SHEET 2 OF 2
ISSUE		SHEET 2 OF 2

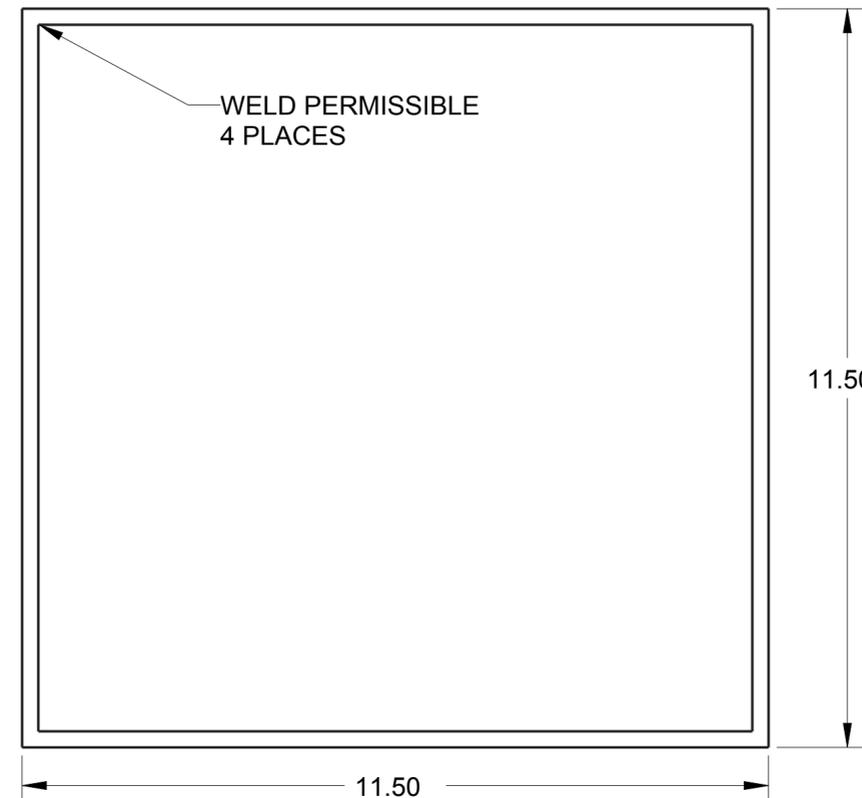
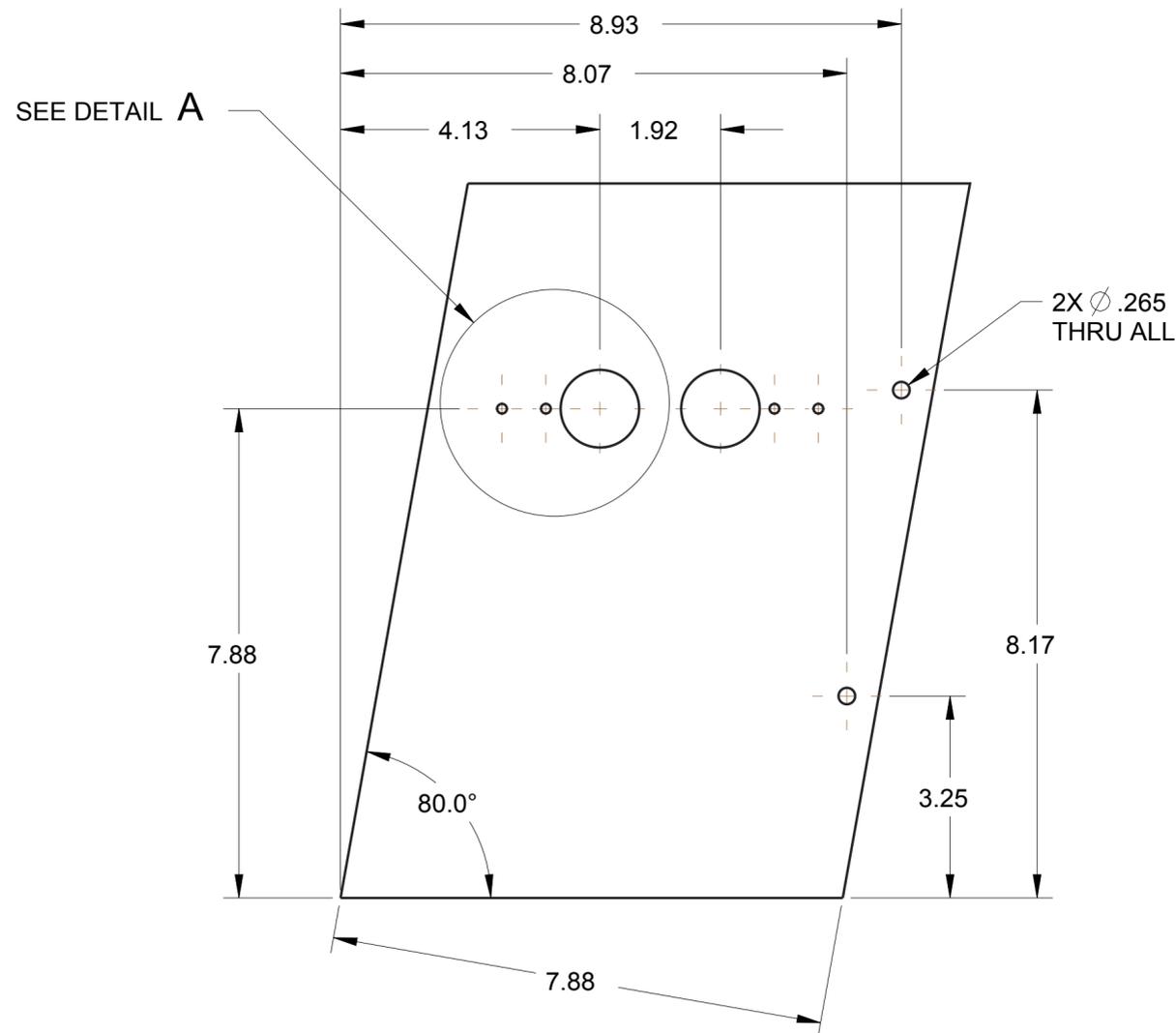
D

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C



B

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- NOTES:
1. MATERIAL: 1/4" BLACK HDPE
2. REMOVE ALL BURRS AND SHARP EDGES.

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		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXXX +/- 0.001 ANG +/- .1</small>		TITLE LG SB	
DO NOT SCALE		PROJECT	MODEL NAME GE-16099
			ISSUE

1

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MODEL NAME
GE-16100

TITLE
CHURRO

1

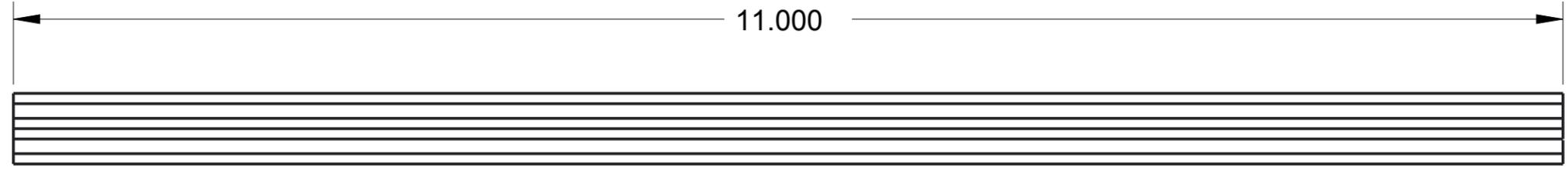
2

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4



SCALE 1:4

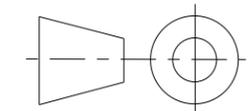


11.000



1/4-20 UNC-2B ∇ 1.25
BOTH ENDS

NOTES:
1. MATERIAL: ANDYMARK CHURRO (AM-2974).



UNLESS OTHERWISE SPECIFIED ALL
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
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X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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SCALE 1:1	SHEET 1 OF 1

TITLE CHURRO		
PROJECT	MODEL NAME GE-16100	ISSUE

1

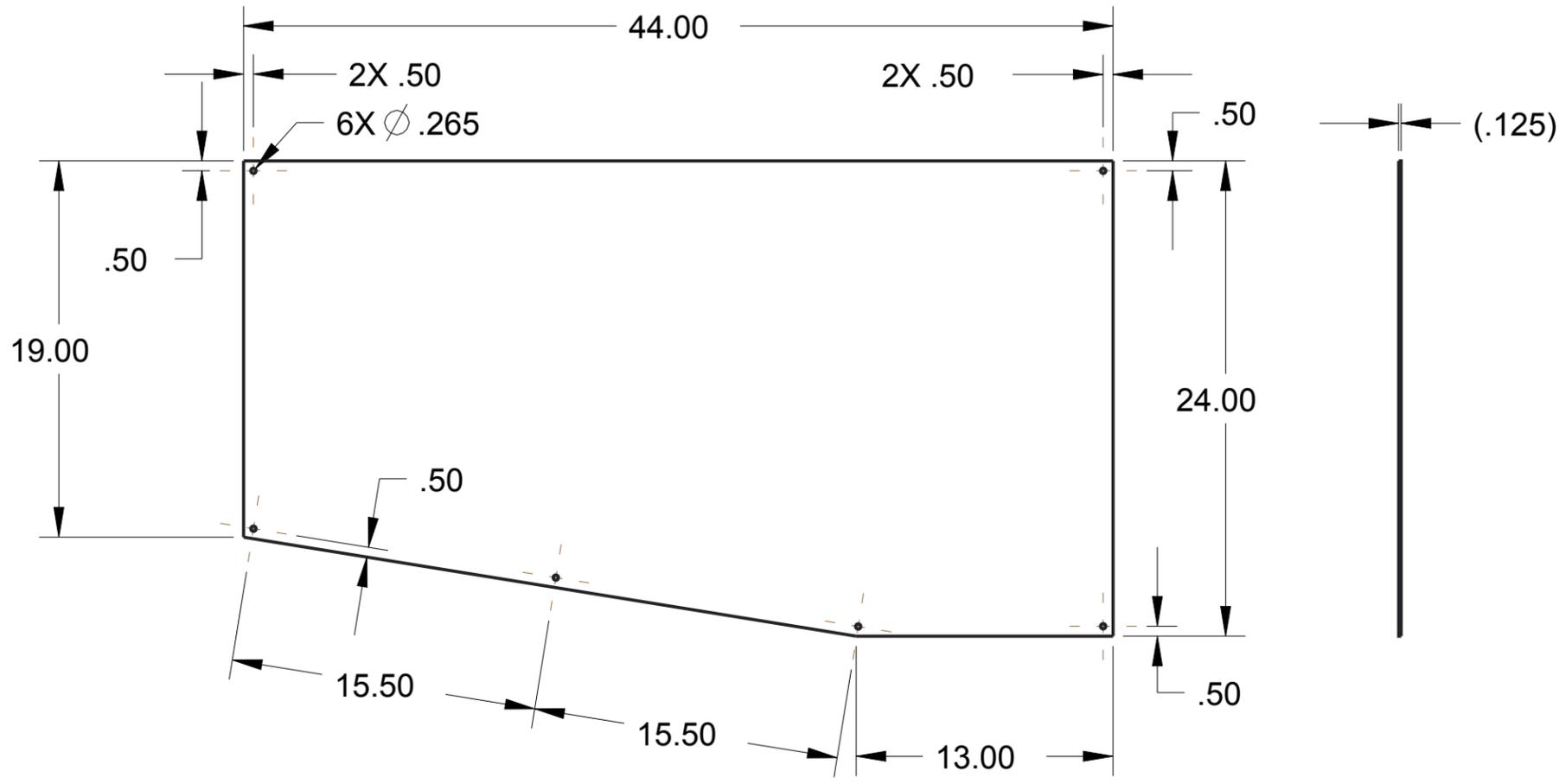
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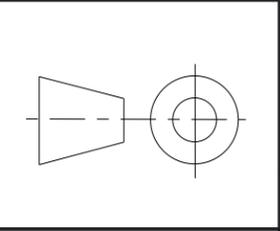
4

MODEL NAME
GE-16101

TITLE
FUNNEL, BACK



NOTES:
 1. MATERIAL: 1/8" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE



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APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1

TITLE FUNNEL, BACK		
PROJECT	MODEL NAME GE-16101	ISSUE

MODEL NAME
GE-16102

TITLE
SB, HG

1

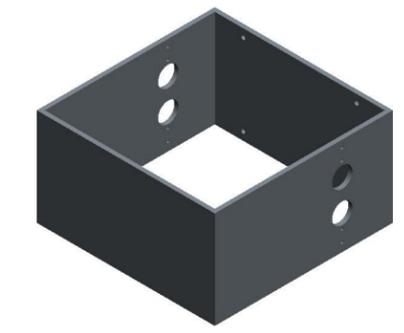
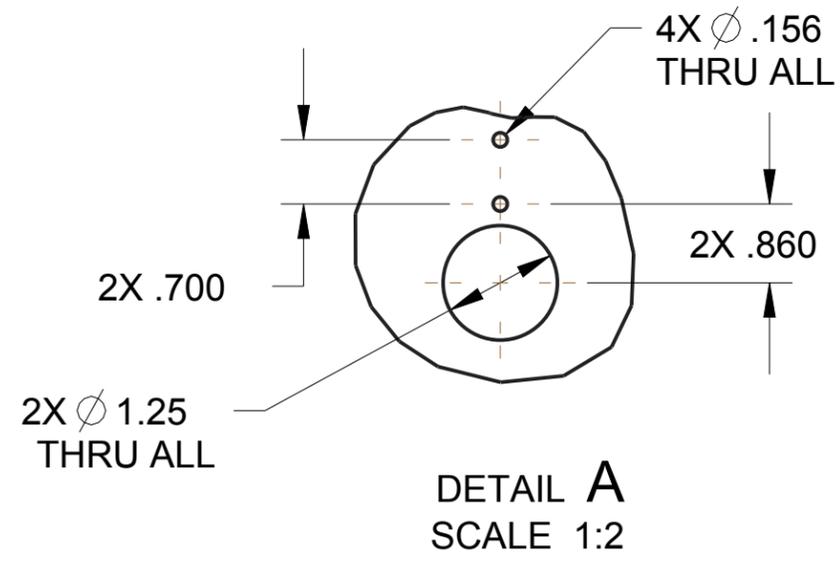
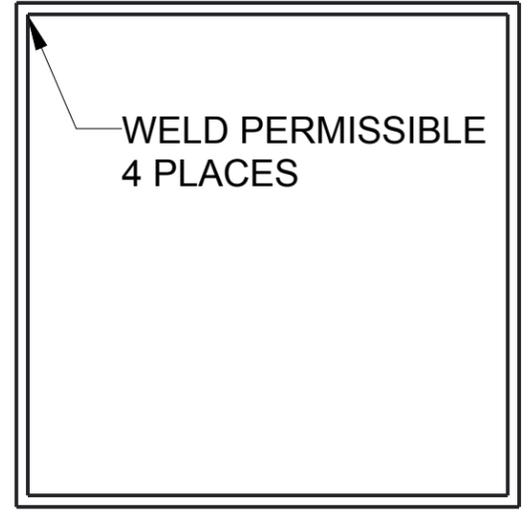
2

3

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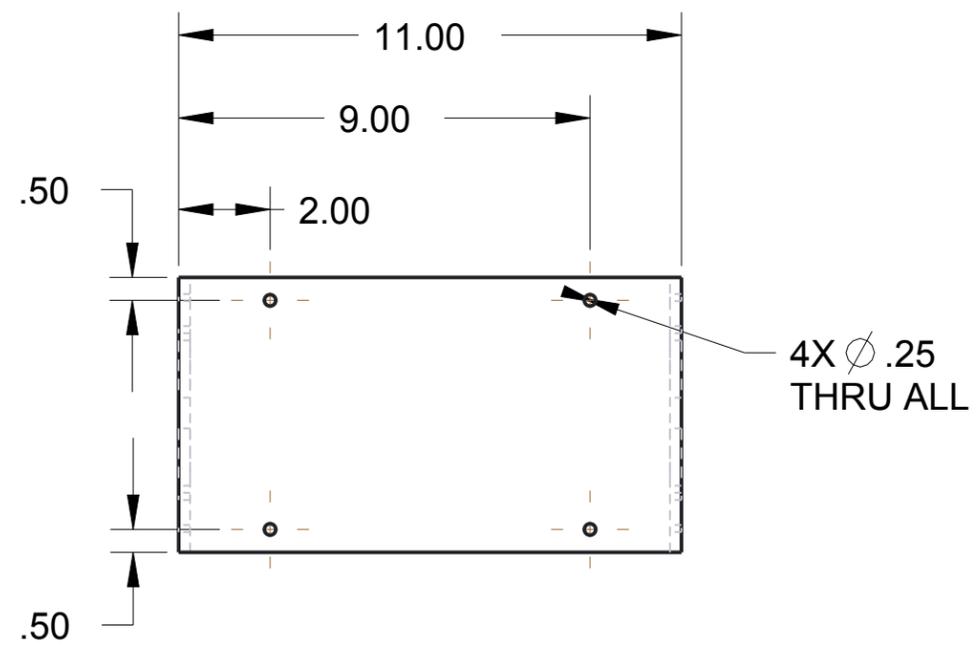
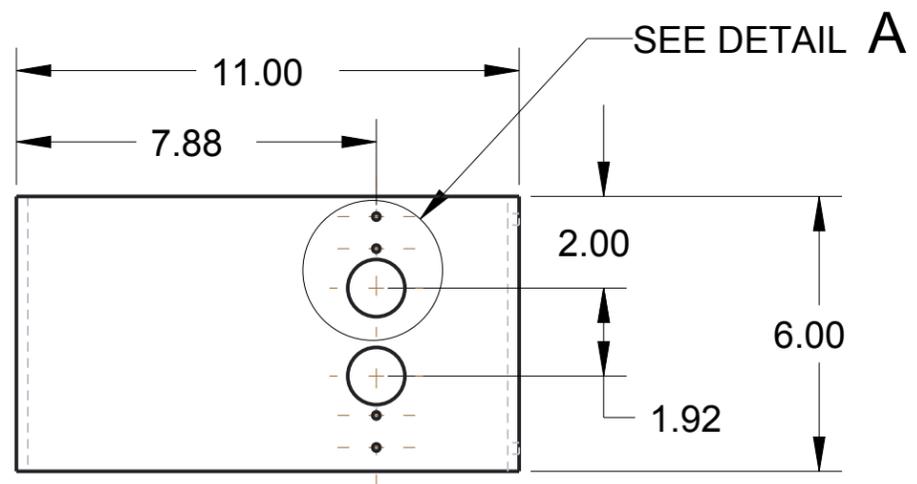
D

D



C

C



B

B

NOTES:
1. MATERIAL: 1/4" BLACK, HDPE
2. REMOVE ALL BURRS AND SHARP EDGES.

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE SB HG			
PROJECT		MODEL NAME GE-16102	ISSUE
DO NOT SCALE			

A

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1

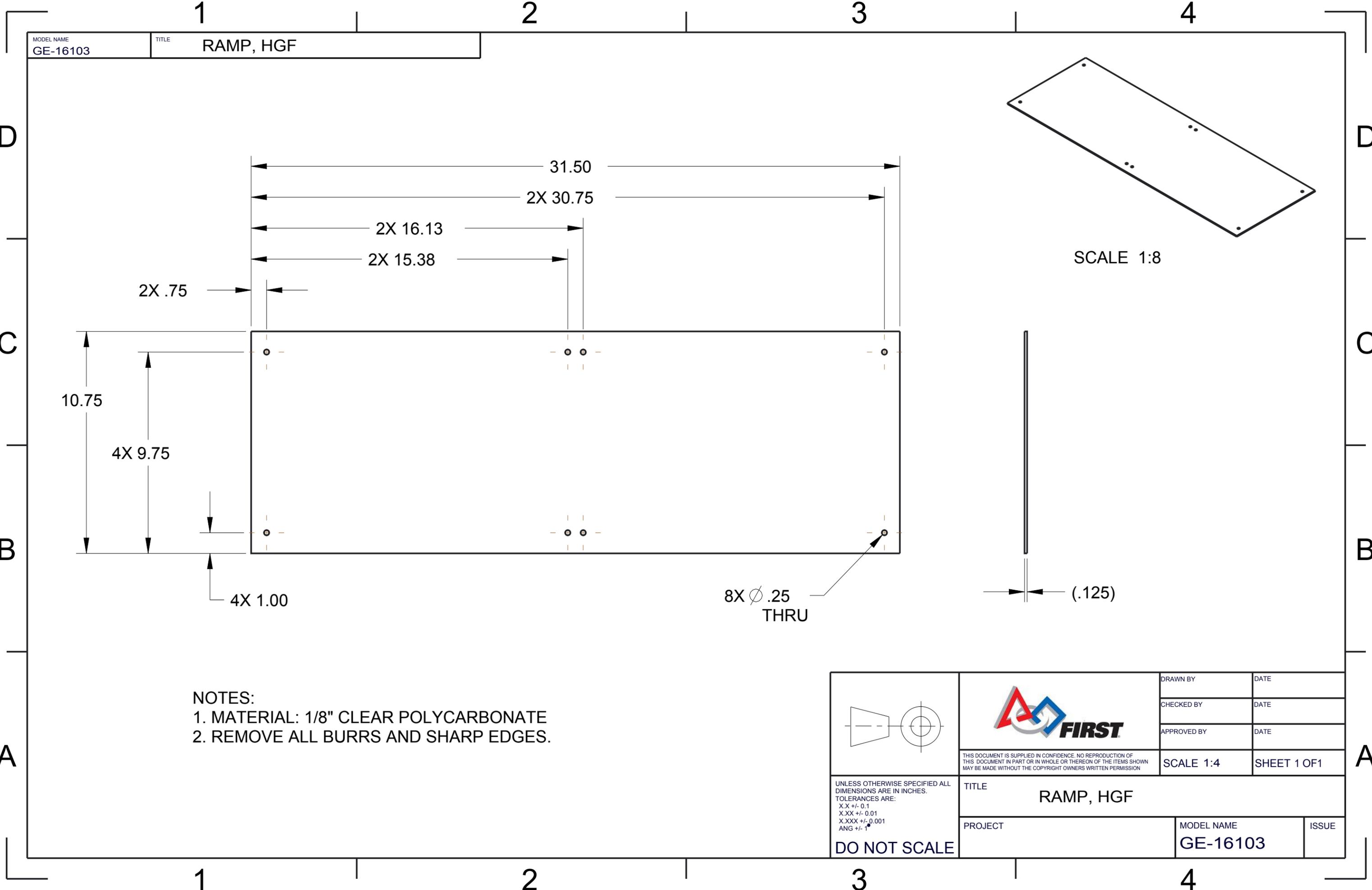
2

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4

MODEL NAME
GE-16103

TITLE
RAMP, HGF

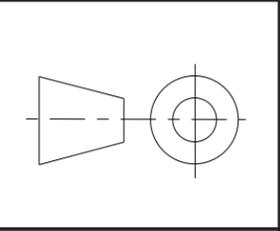


NOTES:
 1. MATERIAL: 1/8" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES.

8X \varnothing .25 THRU

SCALE 1:8

(.125)



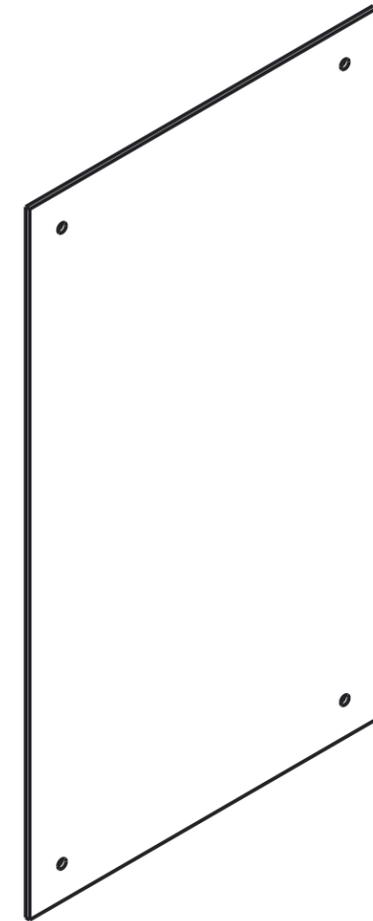
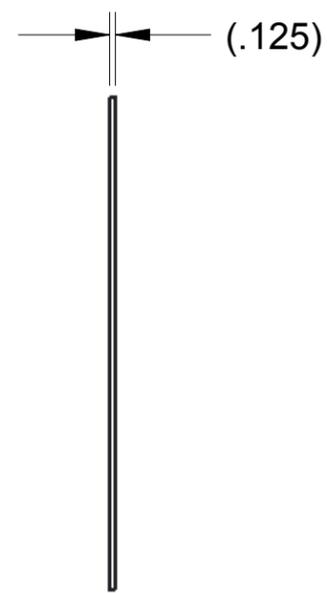
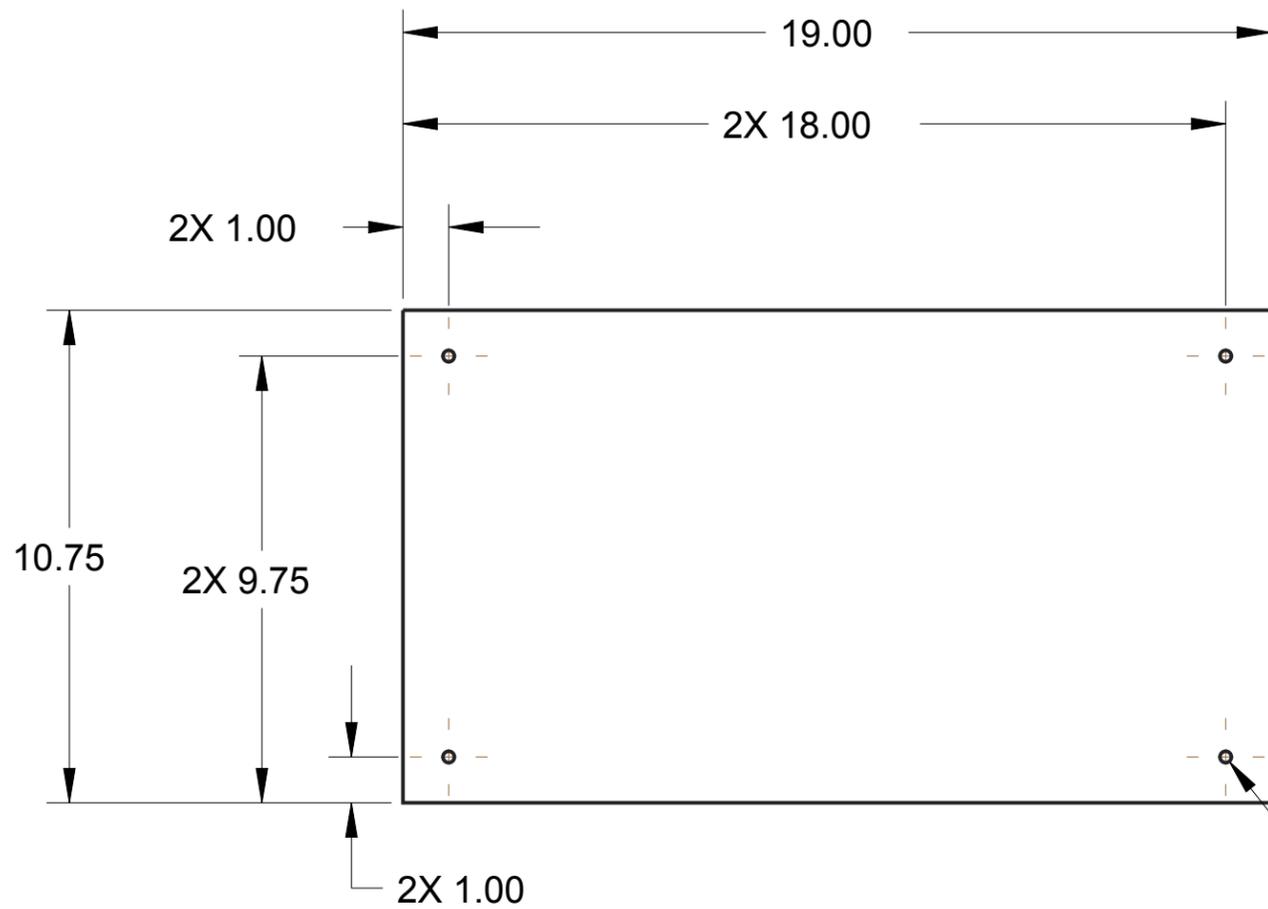
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 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE

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		CHECKED BY	DATE
		APPROVED BY	DATE
TITLE RAMP, HGF		SCALE 1:4	SHEET 1 OF 1
PROJECT		MODEL NAME GE-16103	ISSUE

MODEL NAME
GE-16104

TITLE
SIDE, HGF

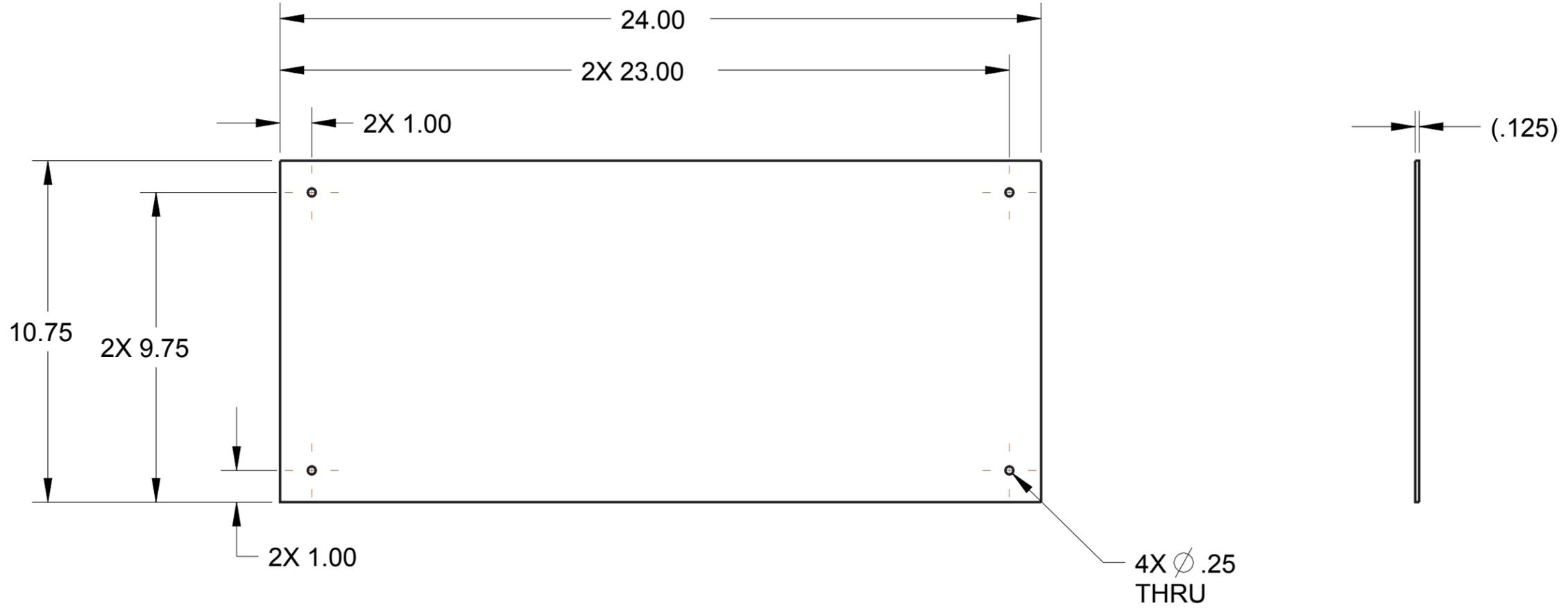


NOTES:
 1. MATERIAL: 1/8" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES.

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE SIDE, HGF	
DO NOT SCALE		PROJECT	MODEL NAME GE-16104
		ISSUE	

MODEL NAME
GE-16105

TITLE
SIDE 2, HGF

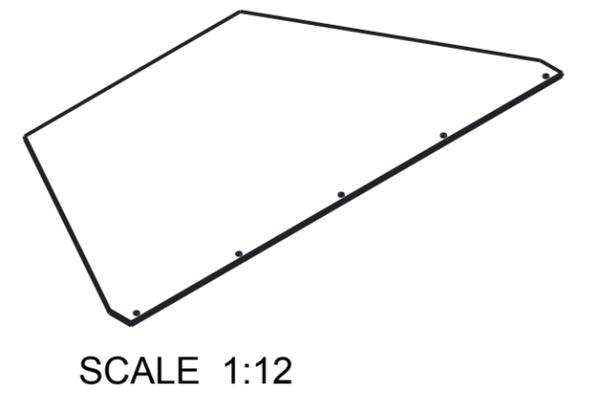
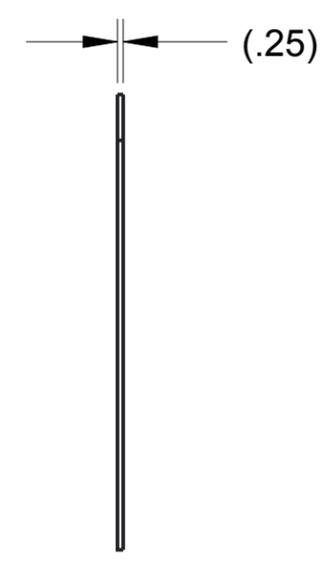
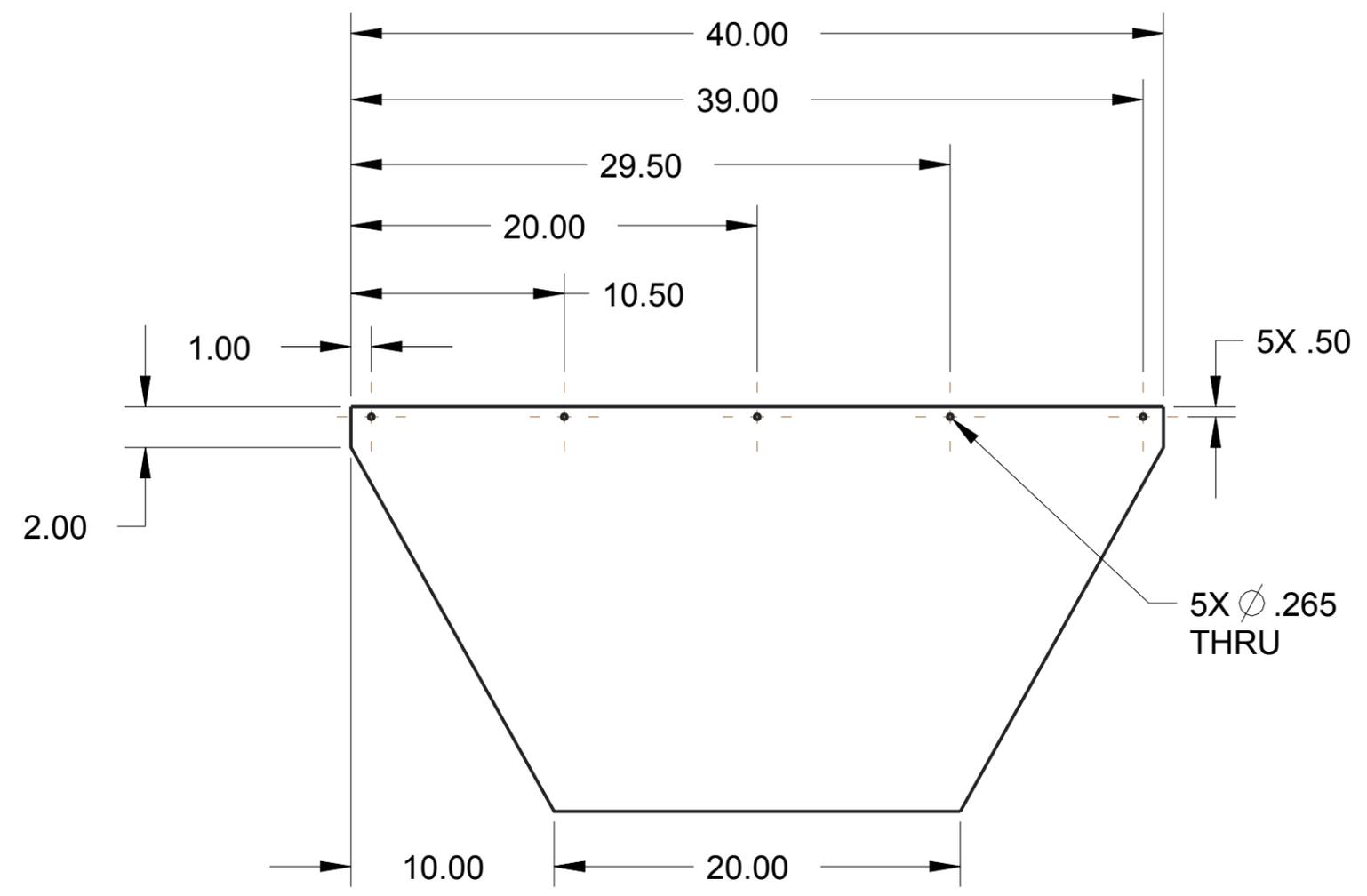


NOTES:
 1. MATERIAL: 1/8" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES

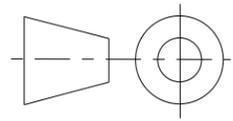
	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE SIDE 2, HGF	
DO NOT SCALE	PROJECT	MODEL NAME GE-16105
		ISSUE

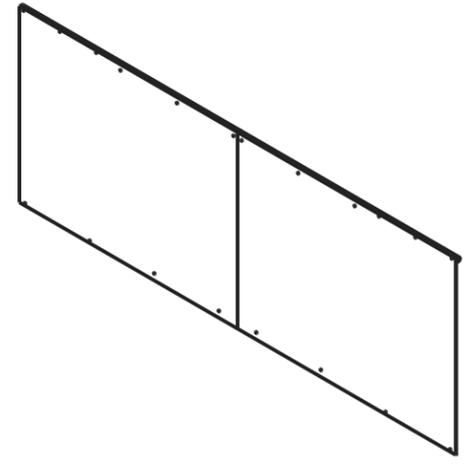
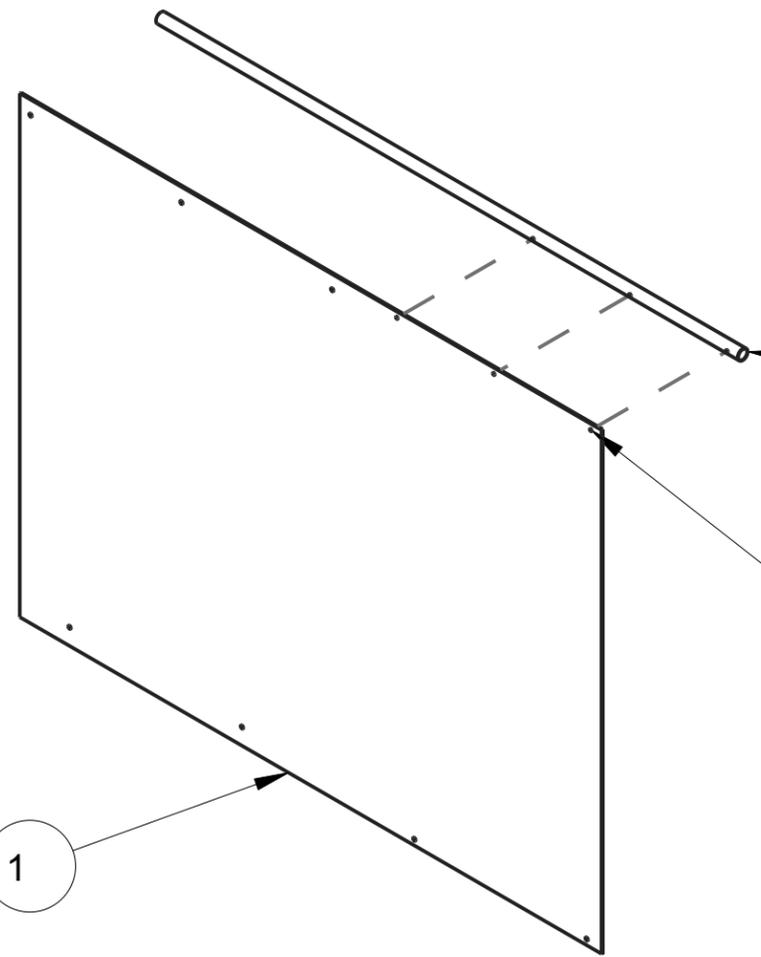
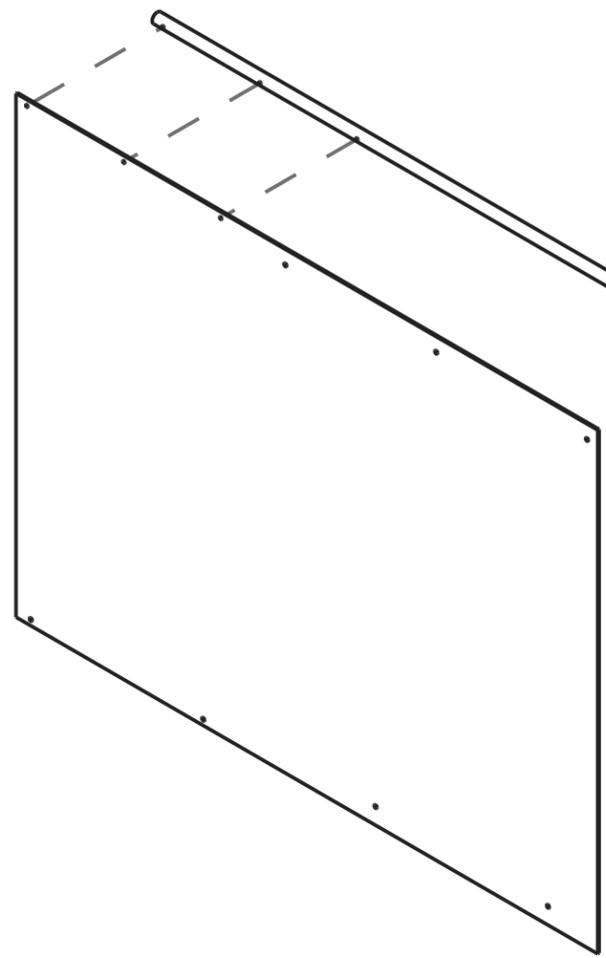
MODEL NAME
GE-16106

TITLE
RAMP, HG



NOTES:
 1. MATERIAL: 1/4" CLEAR POLYCARBONATE
 2. REMOVE ALL BURRS AND SHARP EDGES.

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		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE RAMP, HG	
DO NOT SCALE		PROJECT	MODEL NAME GE-16106
			ISSUE



POSITION ITEM 3 SO THAT IT IS PROTRUDING FROM ITEM 2 BY 4". USING A 3/16 DRILL BIT, DRILL AND RIVET WITH A 3/16" RIVET.

SCALE 1:32

ATTACH ITEM 1 TO ITEM 2 WITH A 3/16" RIVET. 6 PLACES.

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16108	2	backboard	
2	GE-16109	2	emt 1, backboard	
3	GE-16111	1	insert tube, backboard	

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	APPROVED BY	DATE
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TITLE BACKBOARD ASSEMBLY		
PROJECT		ISSUE
MODEL NAME GE-16107		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

MODEL NAME
GE-16108

TITLE

BB

1

2

3

4

D

D

C

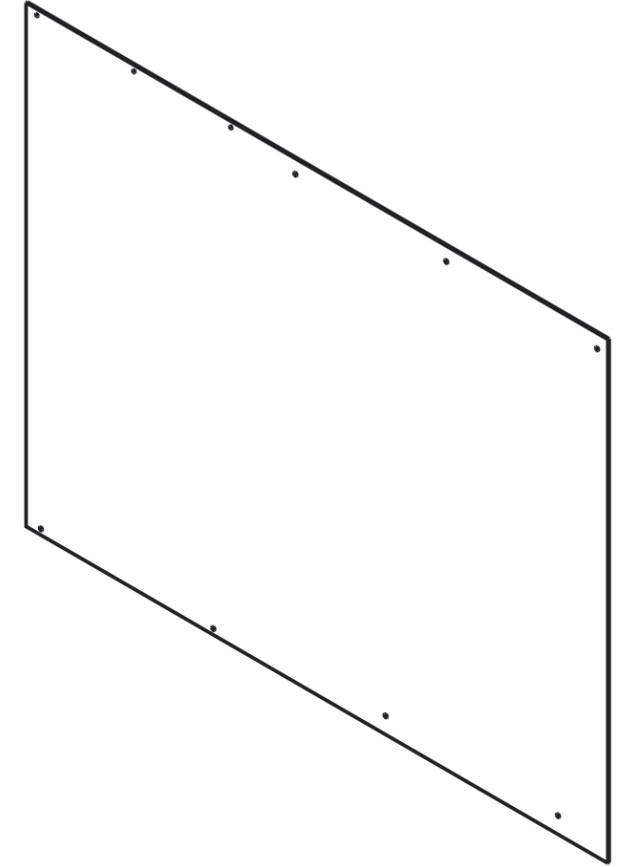
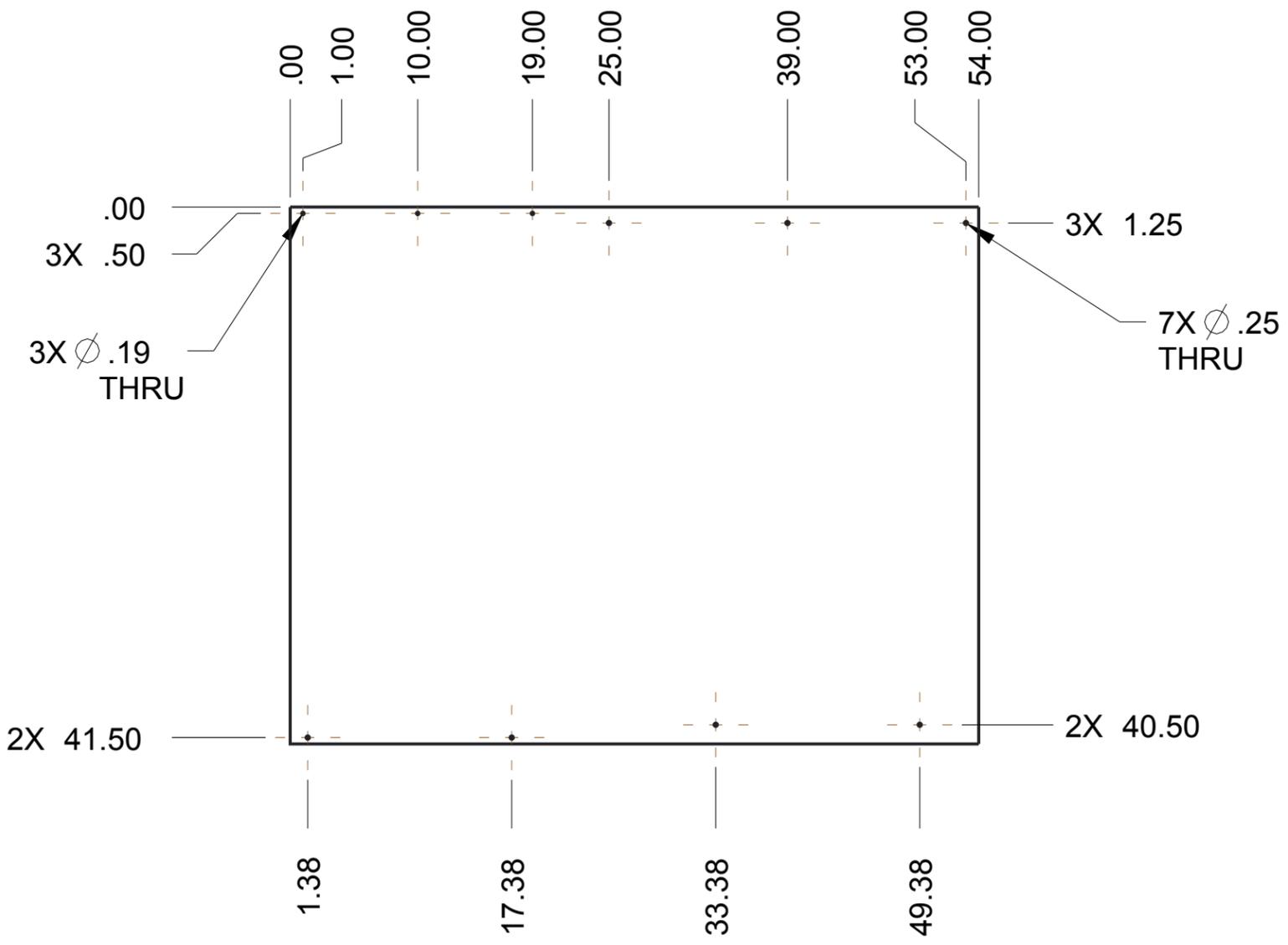
C

B

B

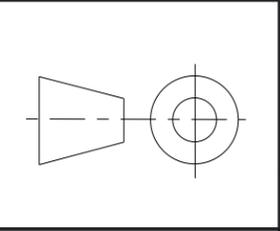
A

A



SCALE 1:12

NOTES:
 1. MATERIAL: 1/8" CLEAR POLYCARBONATE.
 2. REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:12	SHEET 1 OF 1

TITLE	BB	
PROJECT	MODEL NAME	ISSUE
	GE-16108	

MODEL NAME
GE-16109

TITLE
EMT, BB

1

2

3

4

D

D

C

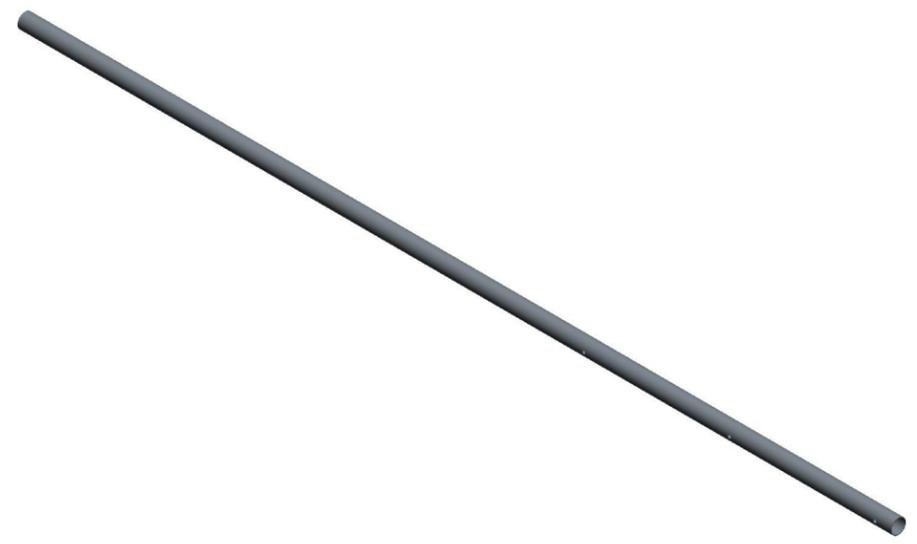
C

B

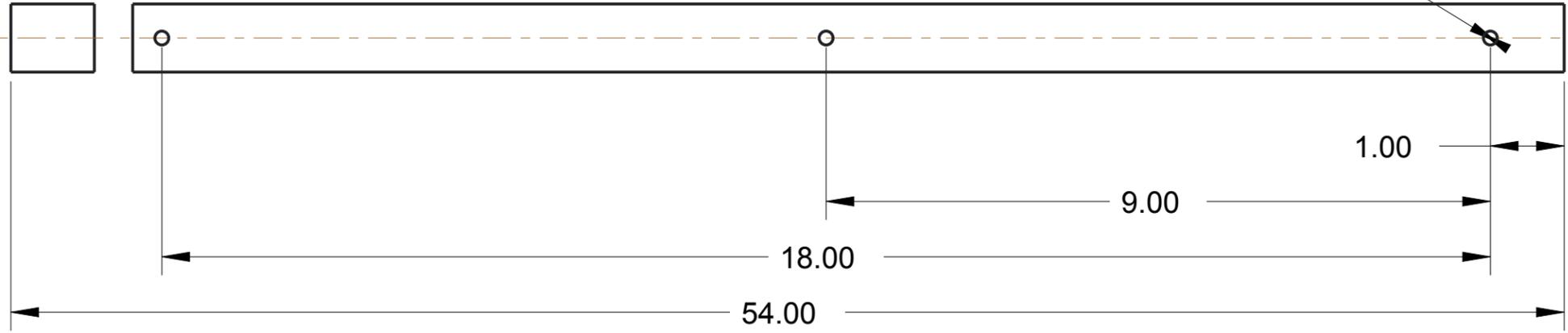
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A

A



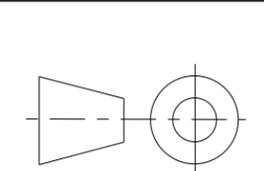
SCALE 1:8



3X \varnothing .19

(\varnothing .92)

- NOTES:
1. MATERIAL: 3/4" EMT TUBING
 2. REMOVE ALL BURRS AND SHARP EDGES.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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DRAWN BY	DATE
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APPROVED BY	DATE
SCALE 1:2	SHEET 1 OF 1

TITLE EMT, BB		
PROJECT	MODEL NAME GE-16109	ISSUE

MODEL NAME
GE-16111

TITLE
INSERT TUBE, BB

1

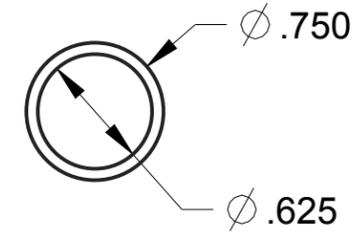
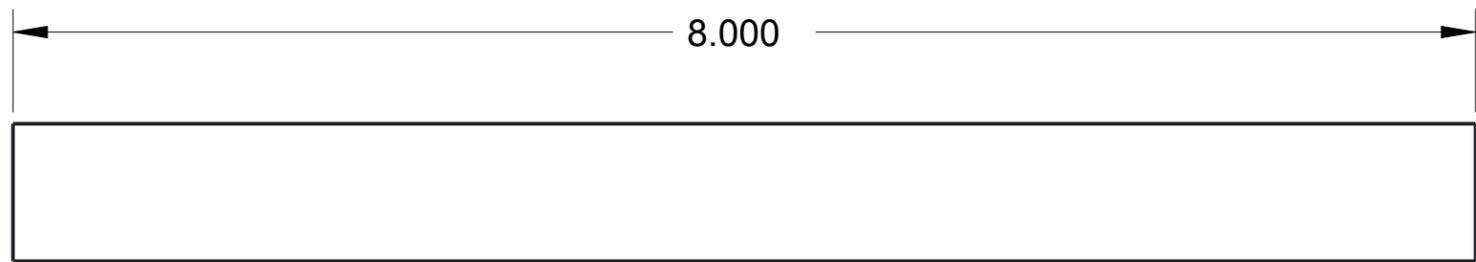
2

3

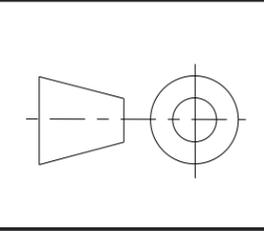
4



SCALE 1:2



- NOTES:
1. MATERIAL: 3/4" DIAMETER X .063 WALL TUBING, 6063 ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:1	SHEET 1 OF 1

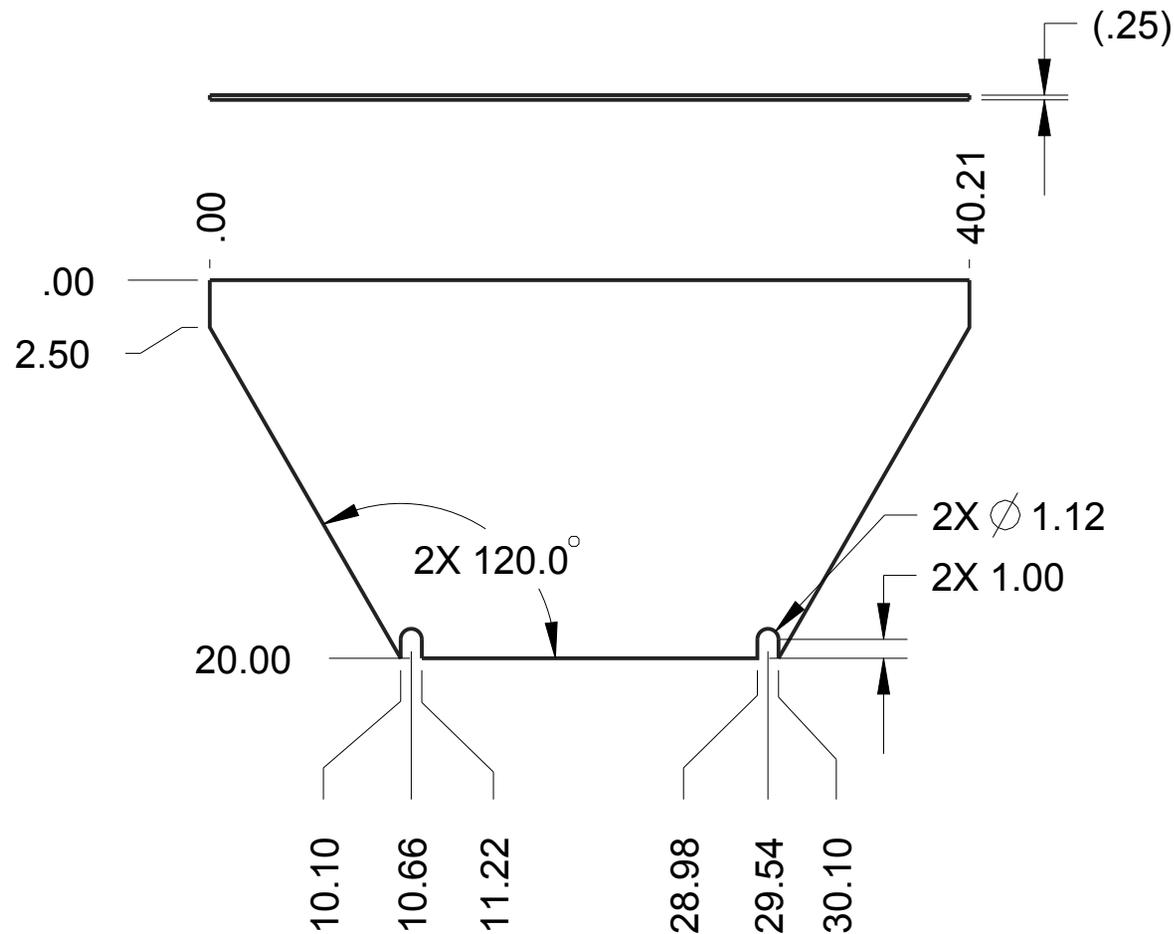
TITLE INSERT TUBE, BB		
PROJECT	MODEL NAME GE-16111	ISSUE

MODEL NAME
GE-16113

TITLE
LOW GOAL RAMP

B

B



A

A

Note:
Material: Clear Polycarbonate, .25 Thick
Scale: 1:10

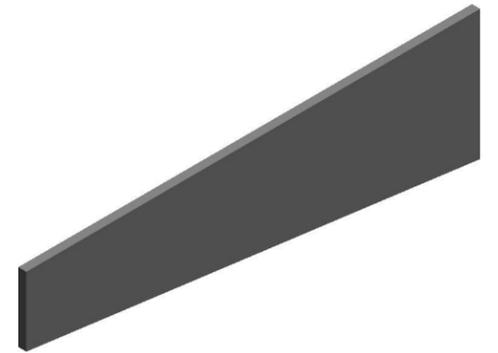
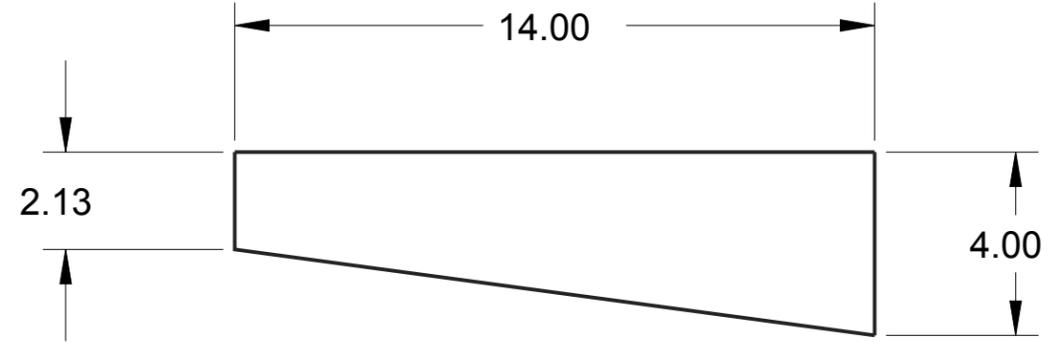
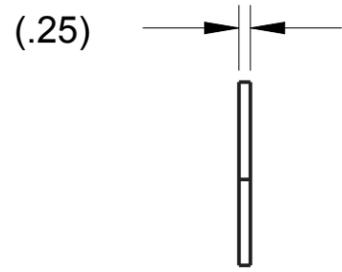
		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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DO NOT SCALE		TITLE LOW GOAL RAMP	
PROJECT		MODEL NAME GE-16113	ISSUE

1

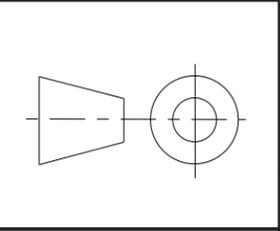
2

MODEL NAME
GE-16114

TITLE
SIDE, LOW GOAL RAMP



NOTES:
1. MATERIAL: 1/4" POLYCARBONATE
2. REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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APPROVED BY	DATE
SCALE 1:4	SHEET 1 OF 1

TITLE SIDE, LOW GOAL RAMP		
PROJECT	MODEL NAME GE-16114	ISSUE

MODEL NAME
GE-16115

TITLE
PLASTIC GUARD, LOW GOAL

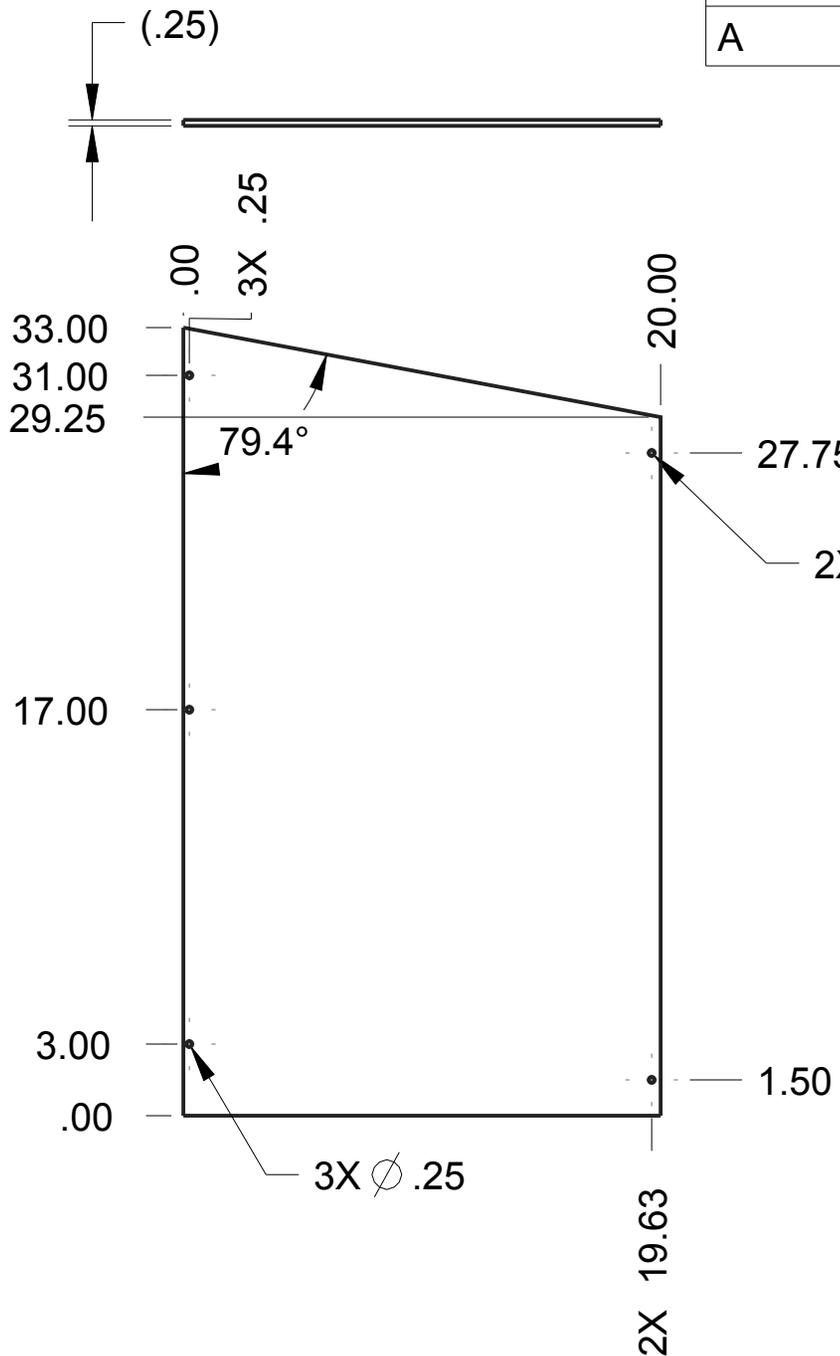
REV	ZONE	DESCRIPTION	INITIAL	DATE
A	B-2	ADDED .25 HOLES (2)	DAF	1/6/15

B

B

A

A



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TITLE PLASTIC GUARD, LOW GOAL		
PROJECT		MODEL NAME GE-16115
DO NOT SCALE		ISSUE

1

2

MODEL NAME
GE-16118

TITLE
BRACKET, LOW GOAL RAMP

1

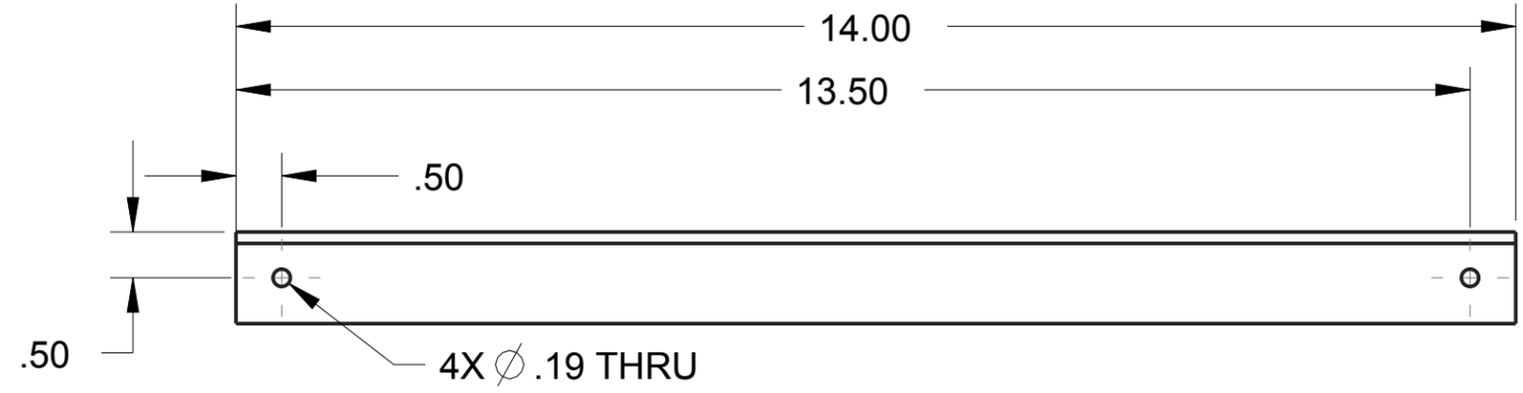
2

3

4

D

D

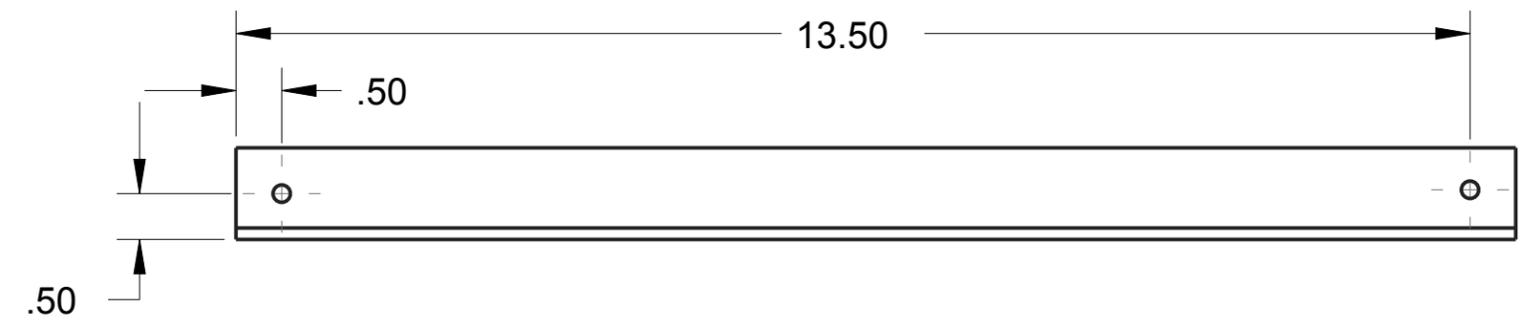


C

C

B

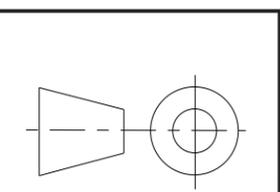
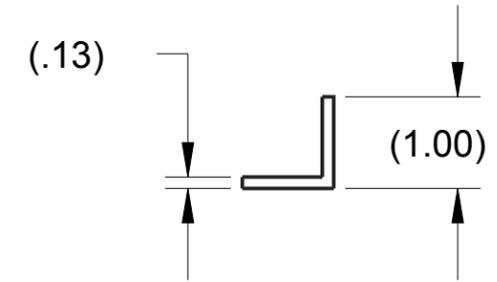
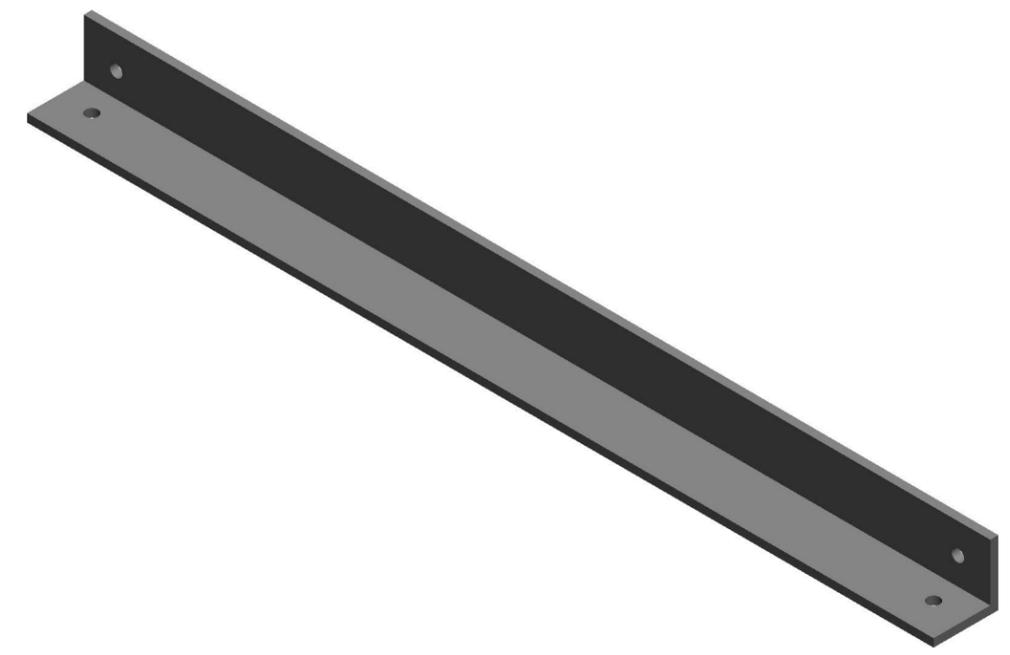
B



A

A

NOTES:
1. MATERIAL: 1" X .125" ANGLE, 6063 ALUMINUM



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



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SCALE 1:2	SHEET 1 OF 1

TITLE BRACKET, LOW GOAL RAMP		
PROJECT	MODEL NAME GE-16118	ISSUE

1

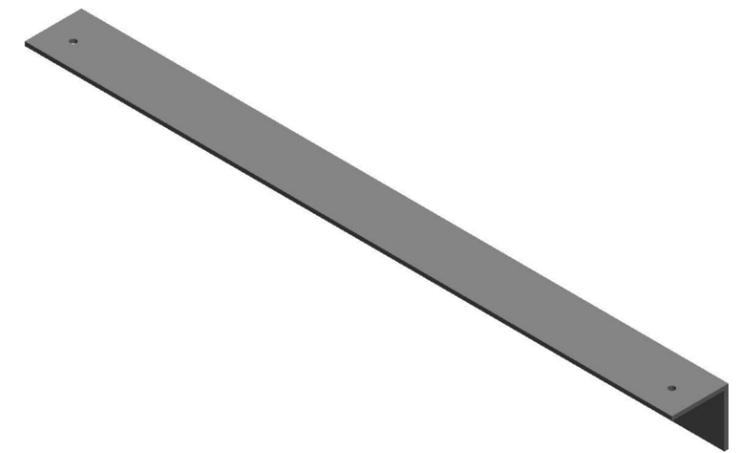
2

3

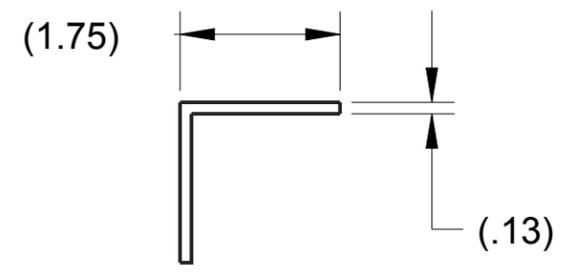
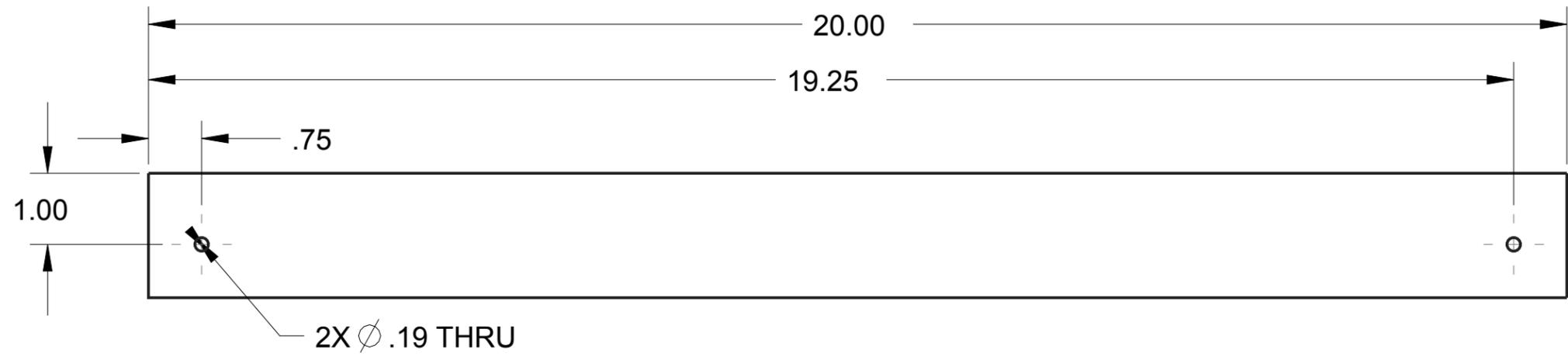
4

MODEL NAME
GE-16119

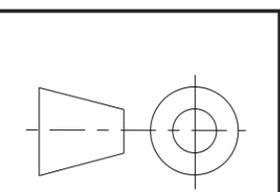
TITLE
SUPPORT, LOW GOAL RAMP



SCALE 1:4



- NOTES:
1. MATERIAL: 1.75" X .125" ANGLE, 6063 ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES



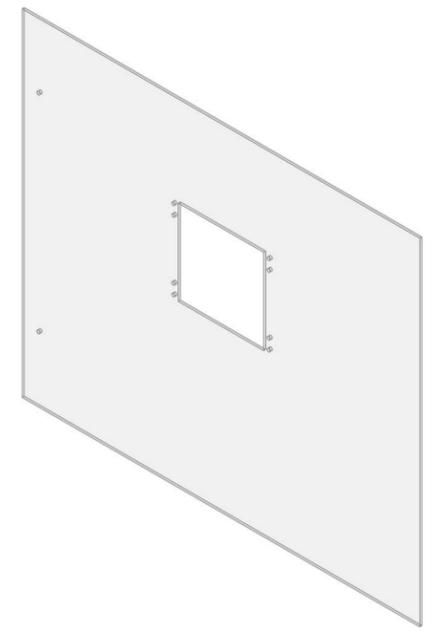
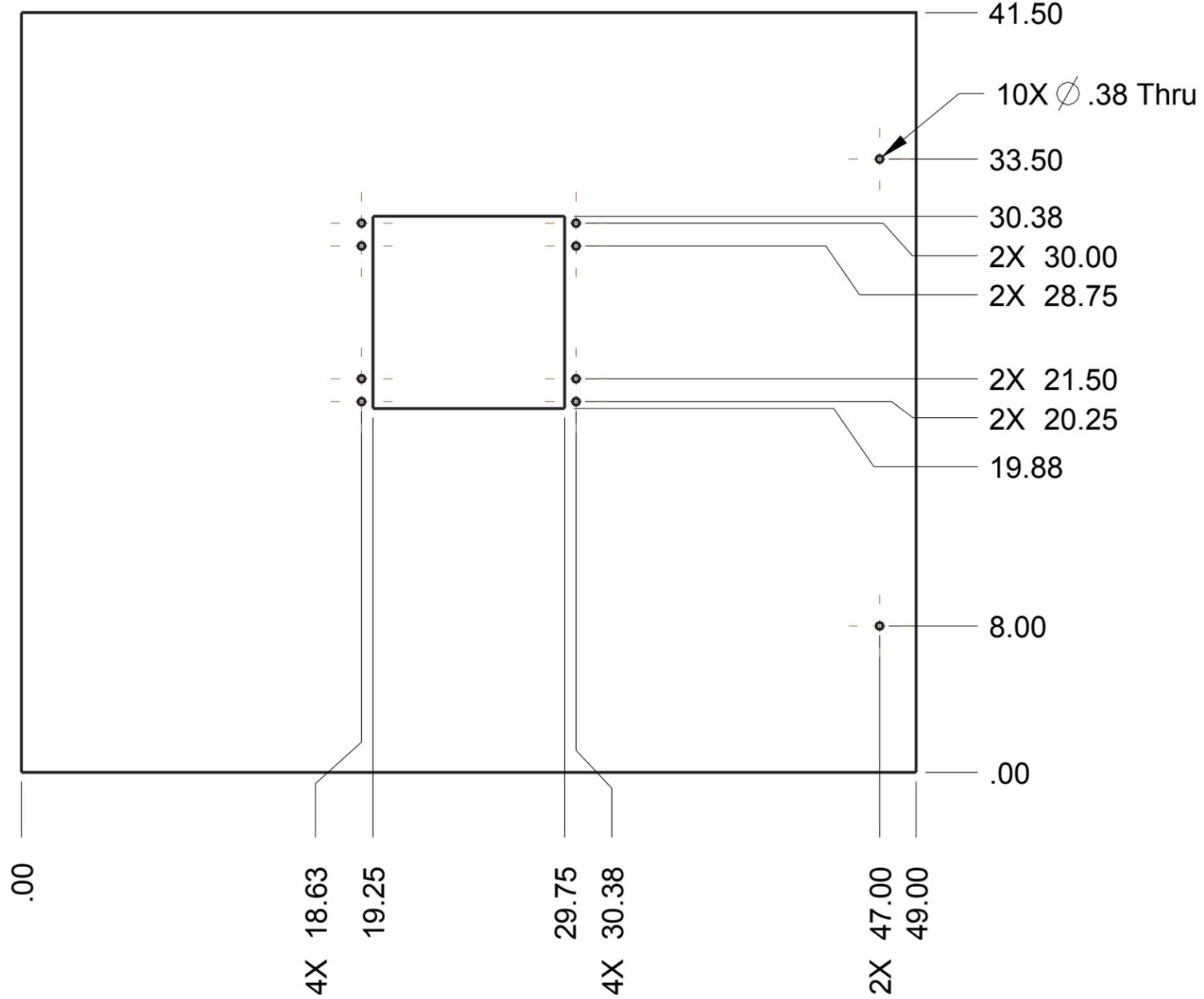
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

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<p>TITLE SUPPORT, LOW GOAL RAMP</p>		
PROJECT	MODEL NAME GE-16119	ISSUE

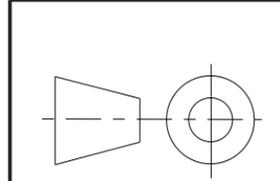
MODEL NAME
GE-16120

TITLE
HPW



NOTES

Material: Clear Polycarbonate, .25" Thick
Scale: 1:8



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



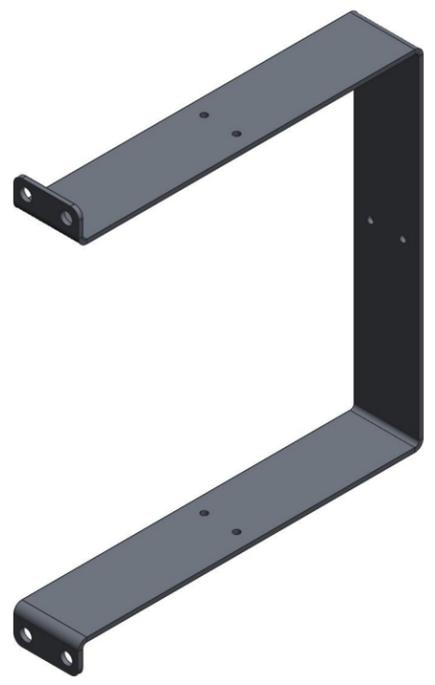
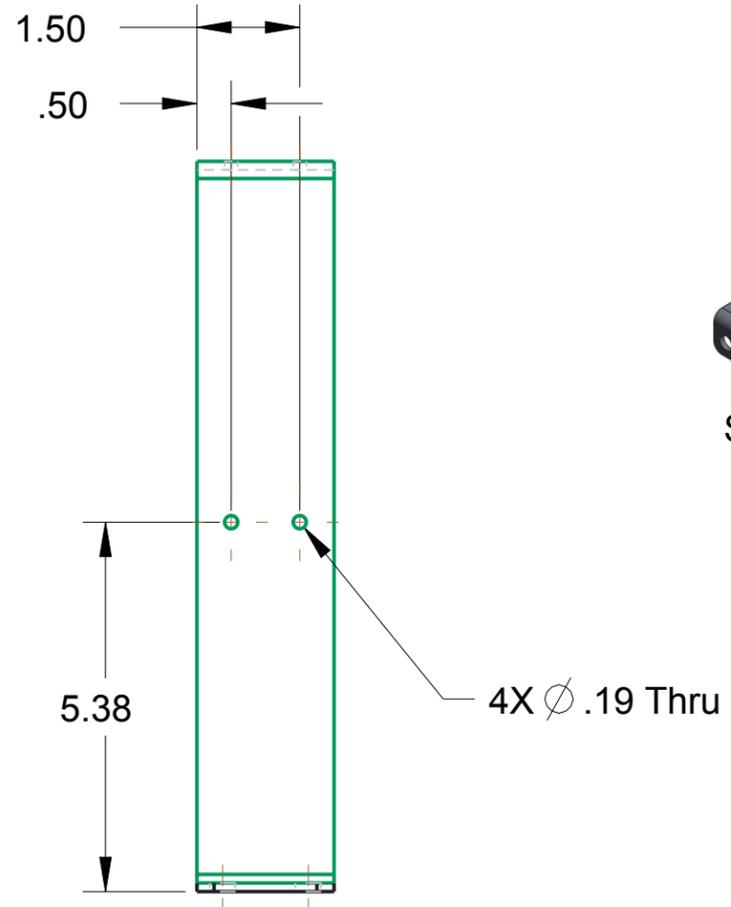
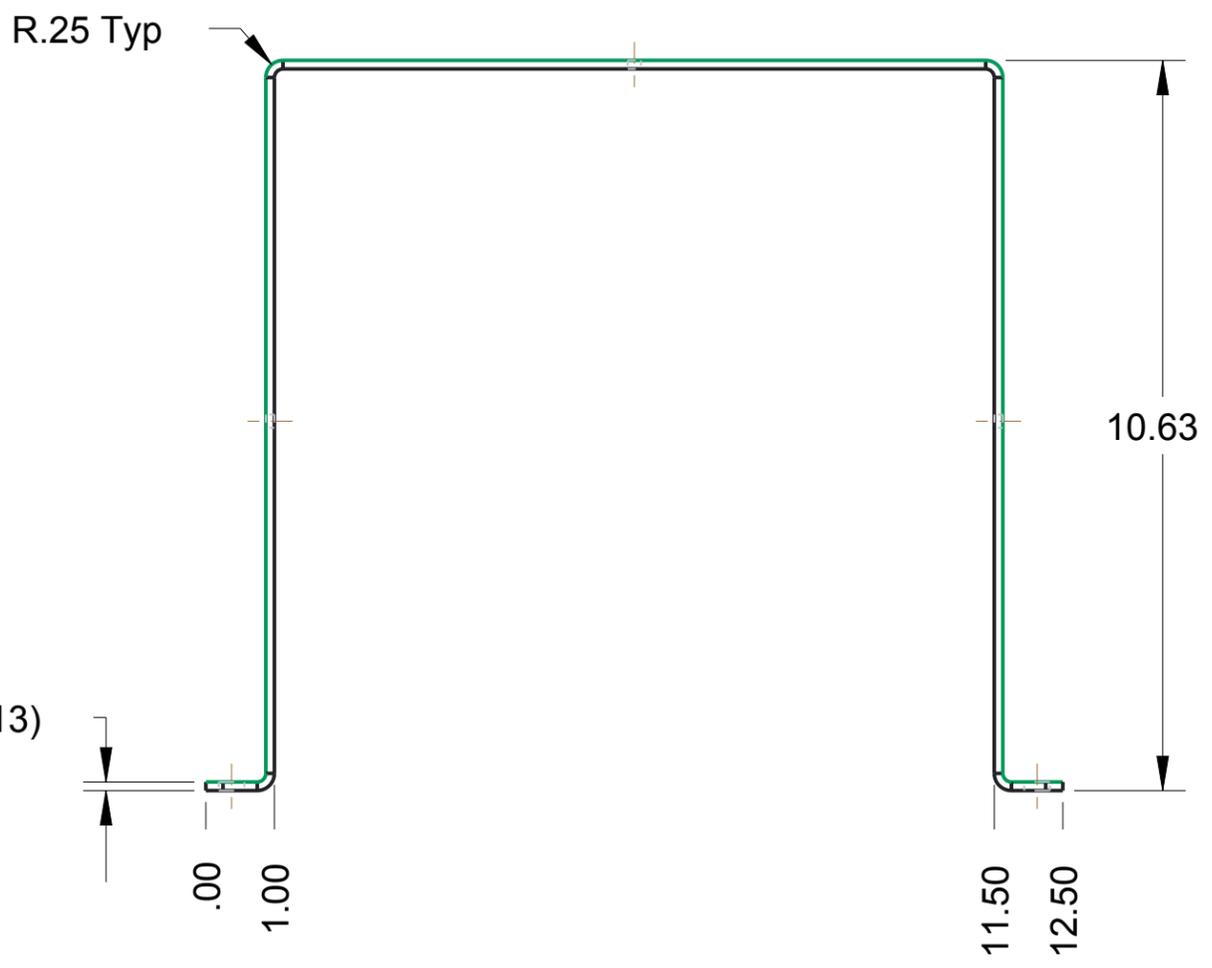
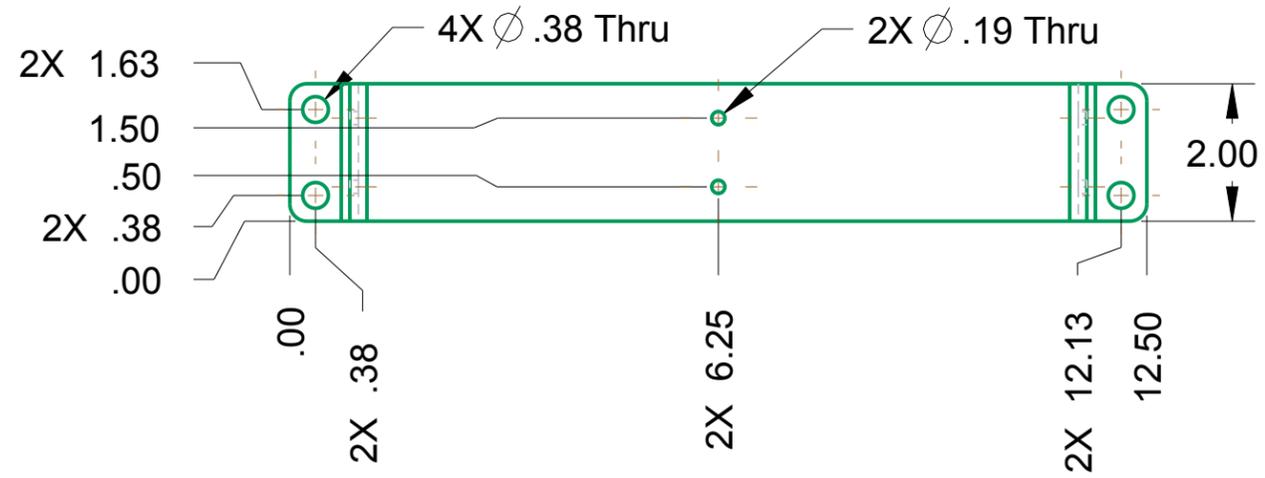
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APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1

TITLE HPW	
PROJECT	MODEL NAME GE-16120
ISSUE	

MODEL NAME
GE-16122

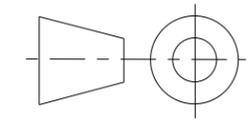
TITLE
ÖÜF



SCALE 1:4

NOTE

1. Material: 5052 Aluminum Sheet, .125" Thick
2. Remove all burrs and sharp edges.



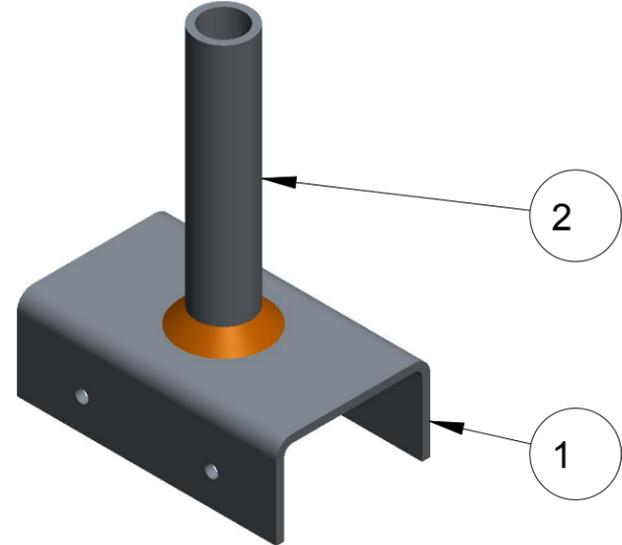
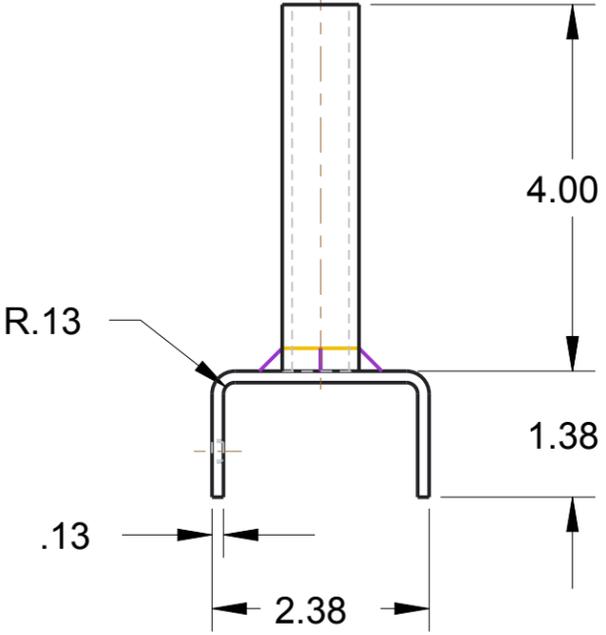
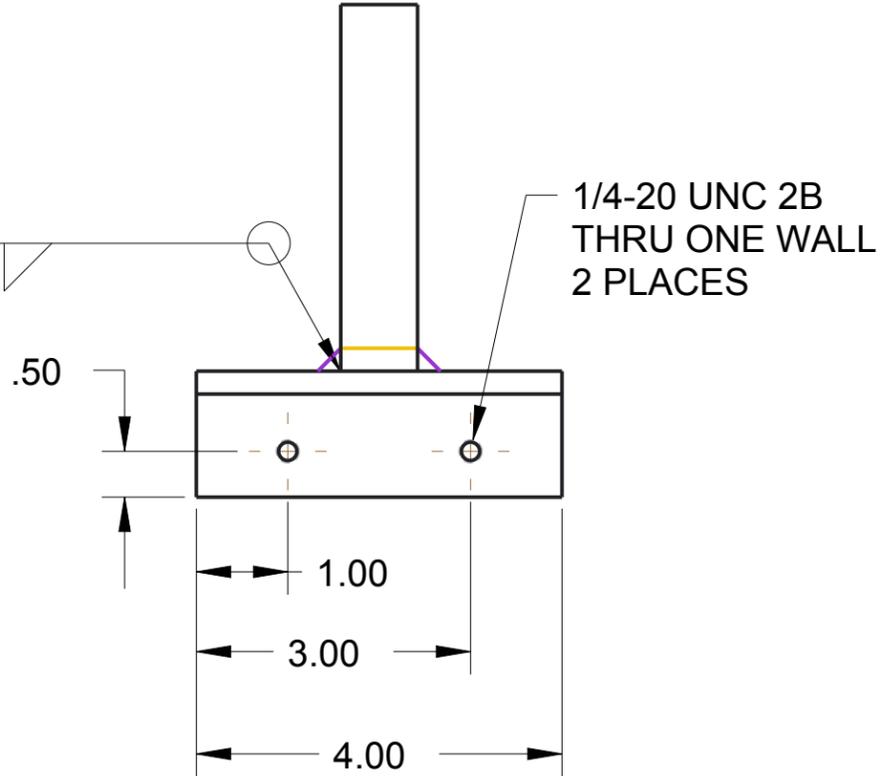
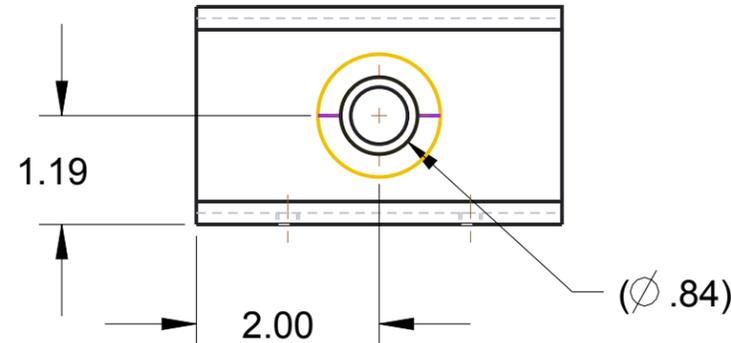
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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TITLE BR1		DRAWN BY	DATE
PROJECT		CHECKED BY	DATE
MODEL NAME GE-16122		APPROVED BY	DATE
ISSUE		SCALE 3:8	SHEET 1 OF 1

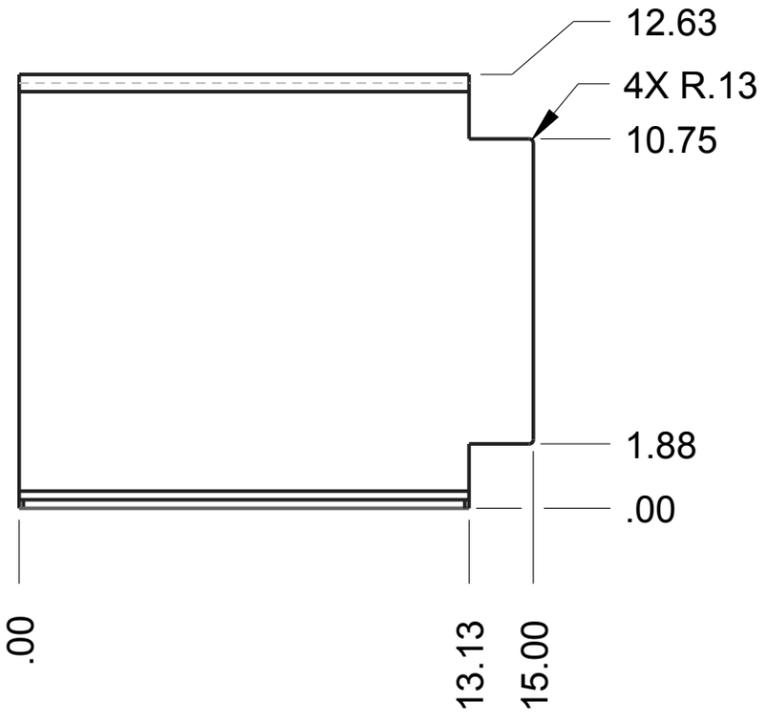
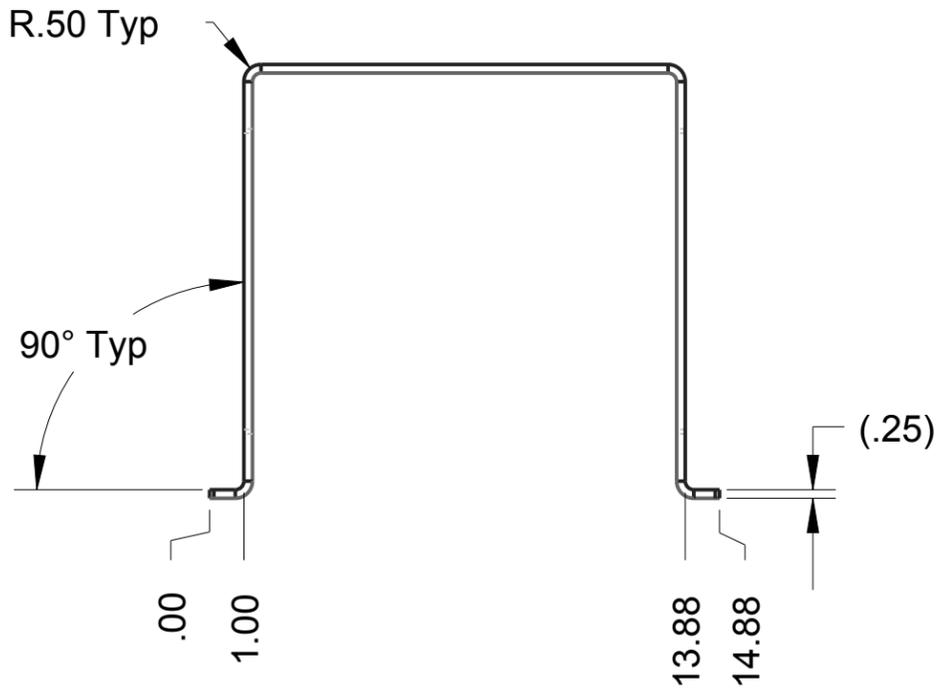
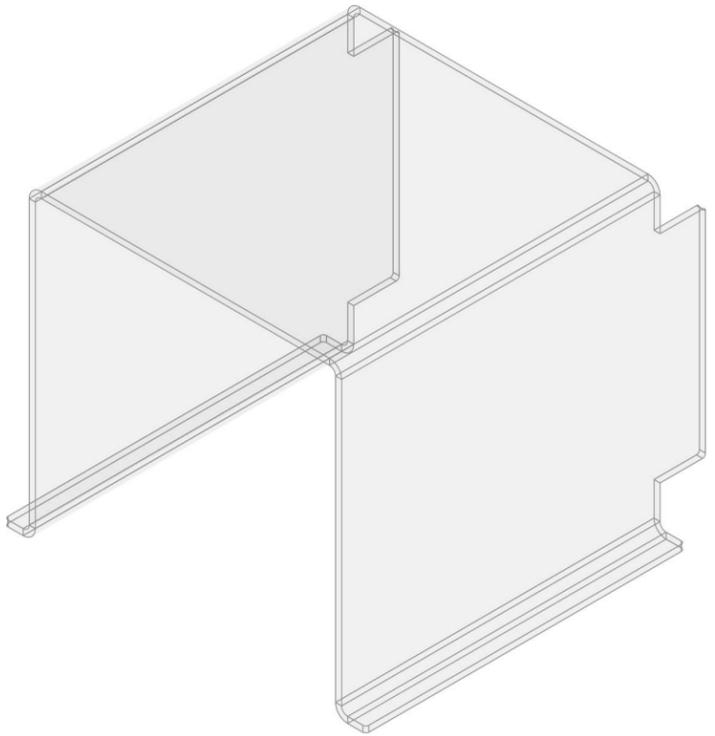
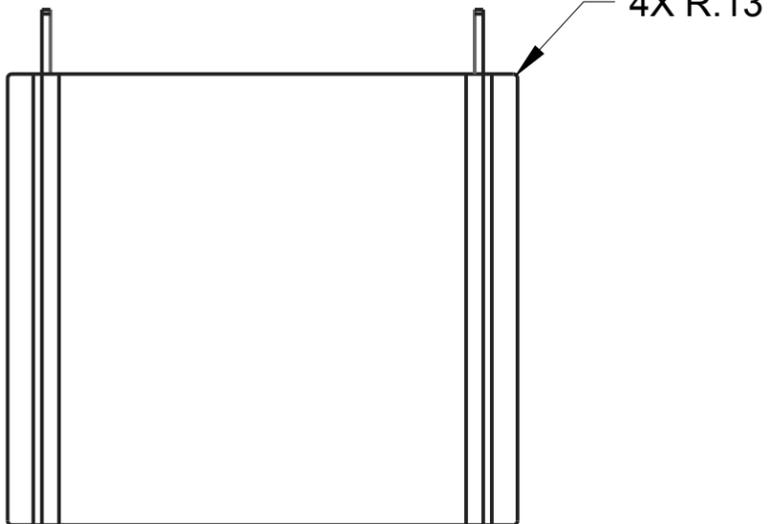


ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16125-01	1	5052 aluminum sheet
2	GE-16125-02	1	1/2" schedule 40 pipe, 6061 alum

		DRAWN BY DAF	DATE 10/26/15
		CHECKED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		SCALE 1:2 SHEET 1 OF 1	
DO NOT SCALE		TITLE Standard Holder	
PROJECT		MODEL NAME GE-16125	ISSUE

MODEL NAME
GE-16127

TITLE
E COVER



NOTE

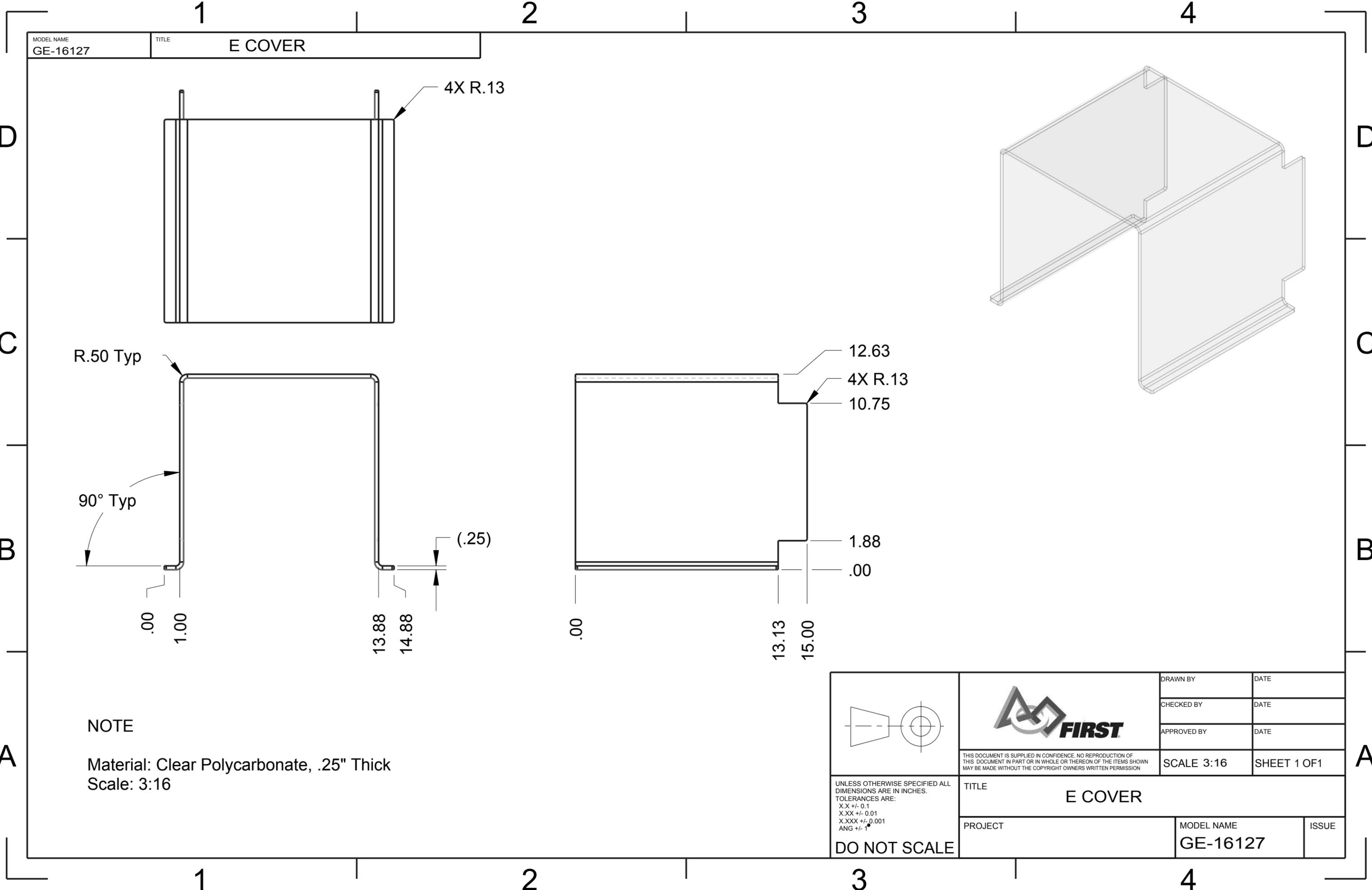
Material: Clear Polycarbonate, .25" Thick

Scale: 3:16

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

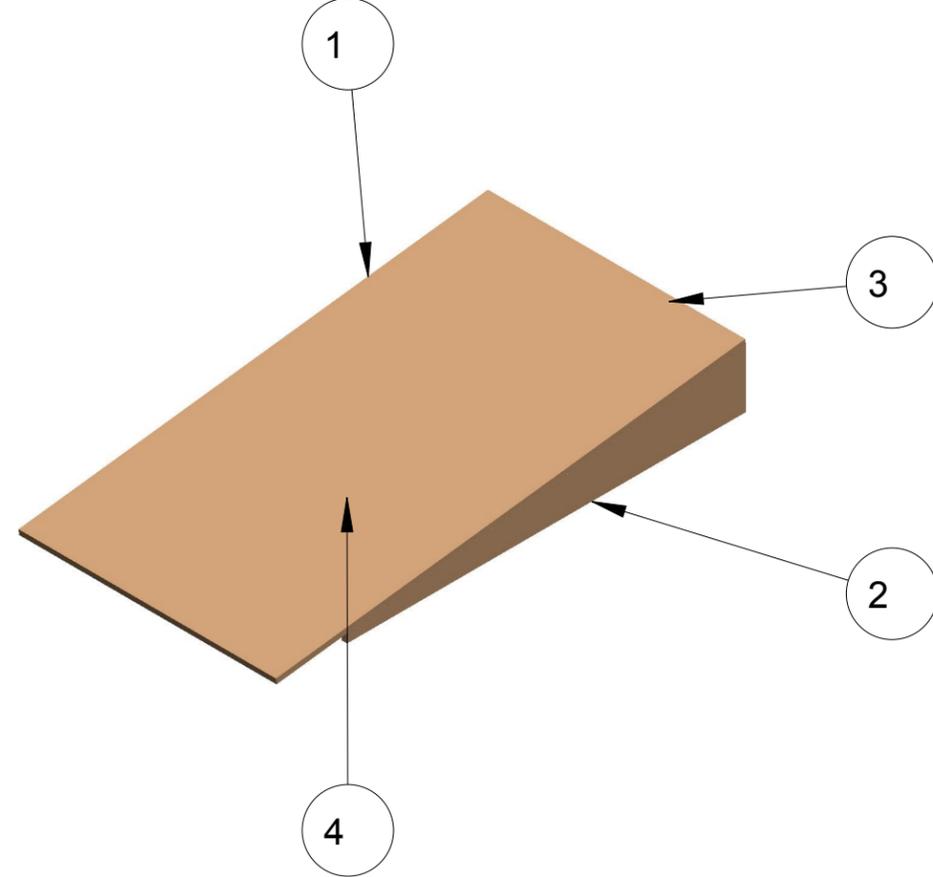
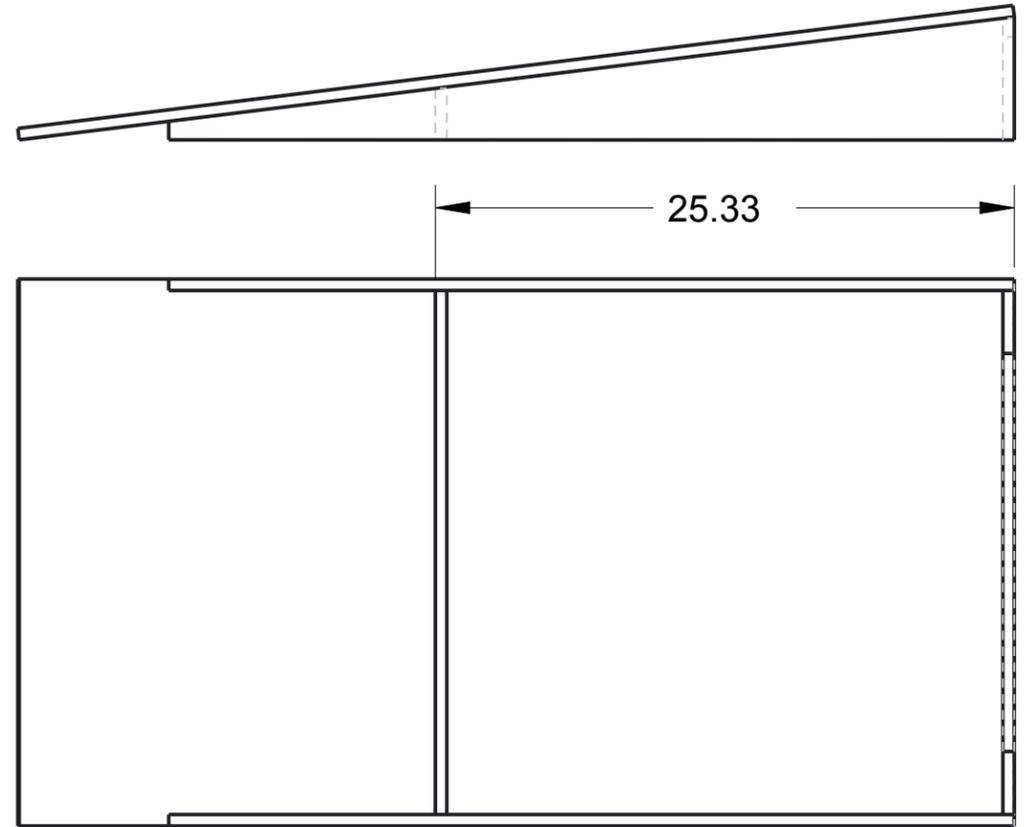
DO NOT SCALE

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	CHECKED BY	DATE
	APPROVED BY	DATE
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SHEET 1 OF 1		
TITLE E COVER		
PROJECT	MODEL NAME GE-16127	ISSUE



MODEL NAME
GE-16137

TITLE
BATTER RAMP, MIDDLE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16137-01	1	ge-16137-01.prt	1/2" Plywood
2	GE-16137-02	2	ge-16137-02.prt	1/2" Plywood
3	GE-16137-03	1	ge-16137-03.prt	1/2" Plywood
4	GE-16137-04	1	ge-16137-04.prt	1/2" Plywood

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	SCALE 1:8	SHEET 1 OF 2
TITLE BATTER RAMP, MIDDLE		
PROJECT	MODEL NAME GE-16137	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE

MODEL NAME
GE-16137

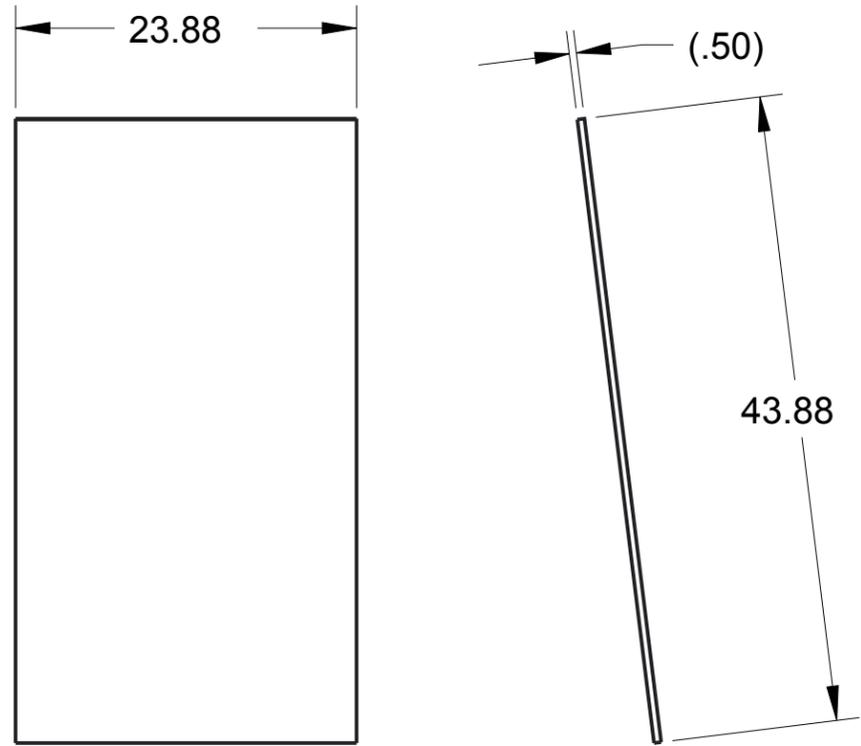
TITLE
BATTER RAMP, MIDDLE

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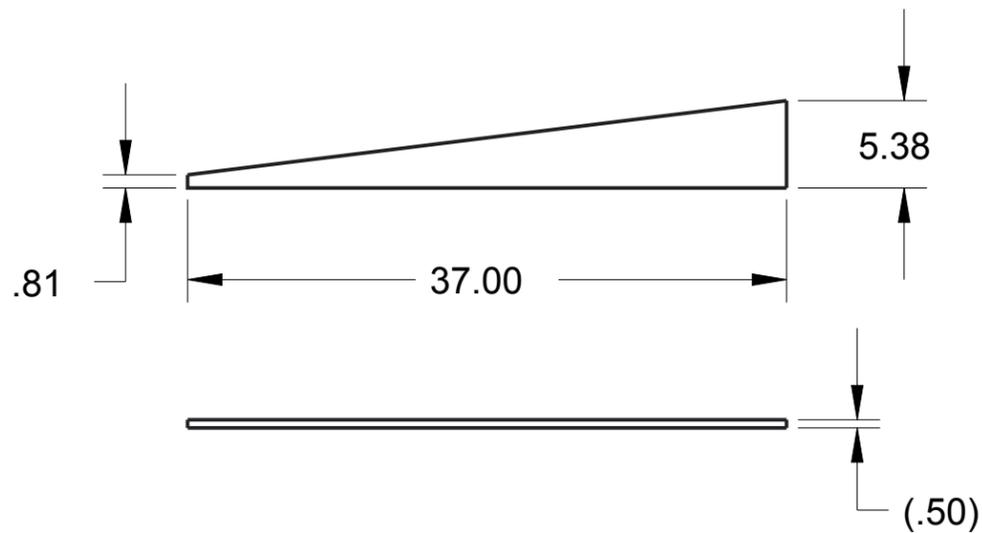


NOTE

Part: Ge-16137-01
Material: 1/2" Plywood
Qty: 1

NOTE

Part: Ge-16137-02
Material: 1/2" Plywood
Qty: 2



(.50)

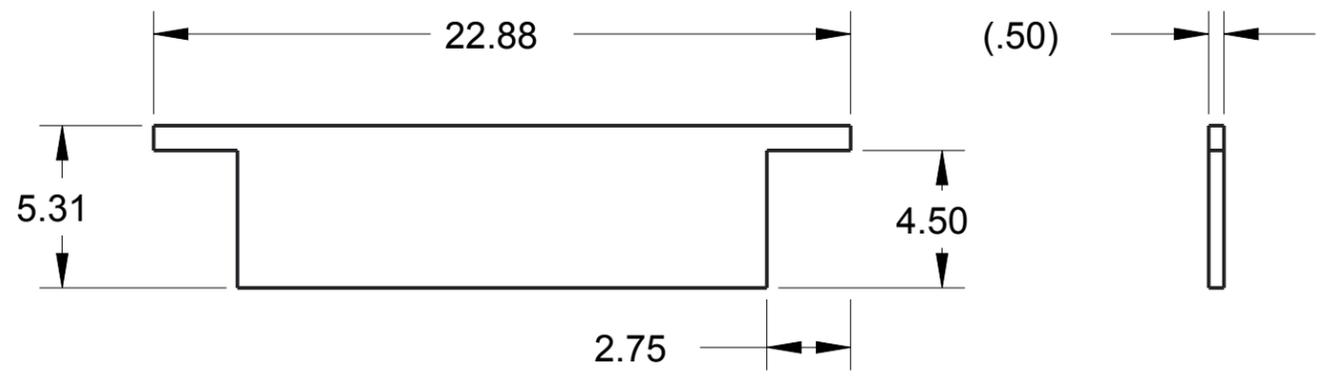
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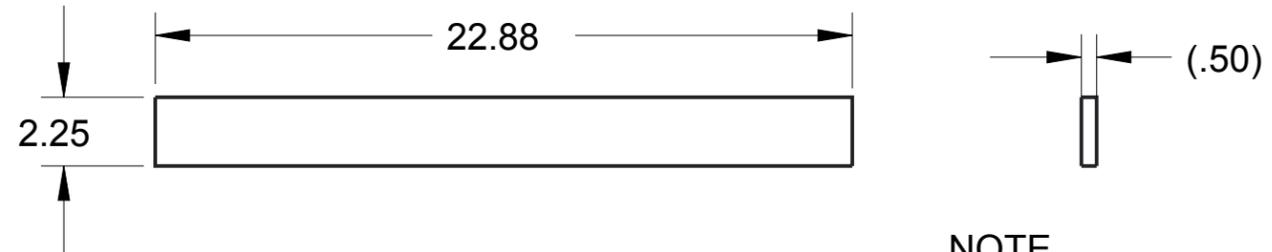
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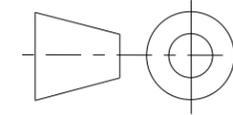
NOTE

Part: Ge-16137-03
Material: 1/2" Plywood
Qty: 1



NOTE

Part: Ge-16137-04
Material: 1/2" Plywood
Qty: 1



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TOLERANCES ARE:
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X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

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	APPROVED BY	DATE
SCALE 1:8	SHEET 2 OF 2	

TITLE BATTER RAMP, MIDDLE		
PROJECT	MODEL NAME GE-16137	ISSUE

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MODEL NAME
GE-16138-05

TITLE
BR, MBUMP



(.75)

4X \varnothing .13 THRU ALL
 \varnothing 0.25 X 100°

4X
1.50
.75
.00

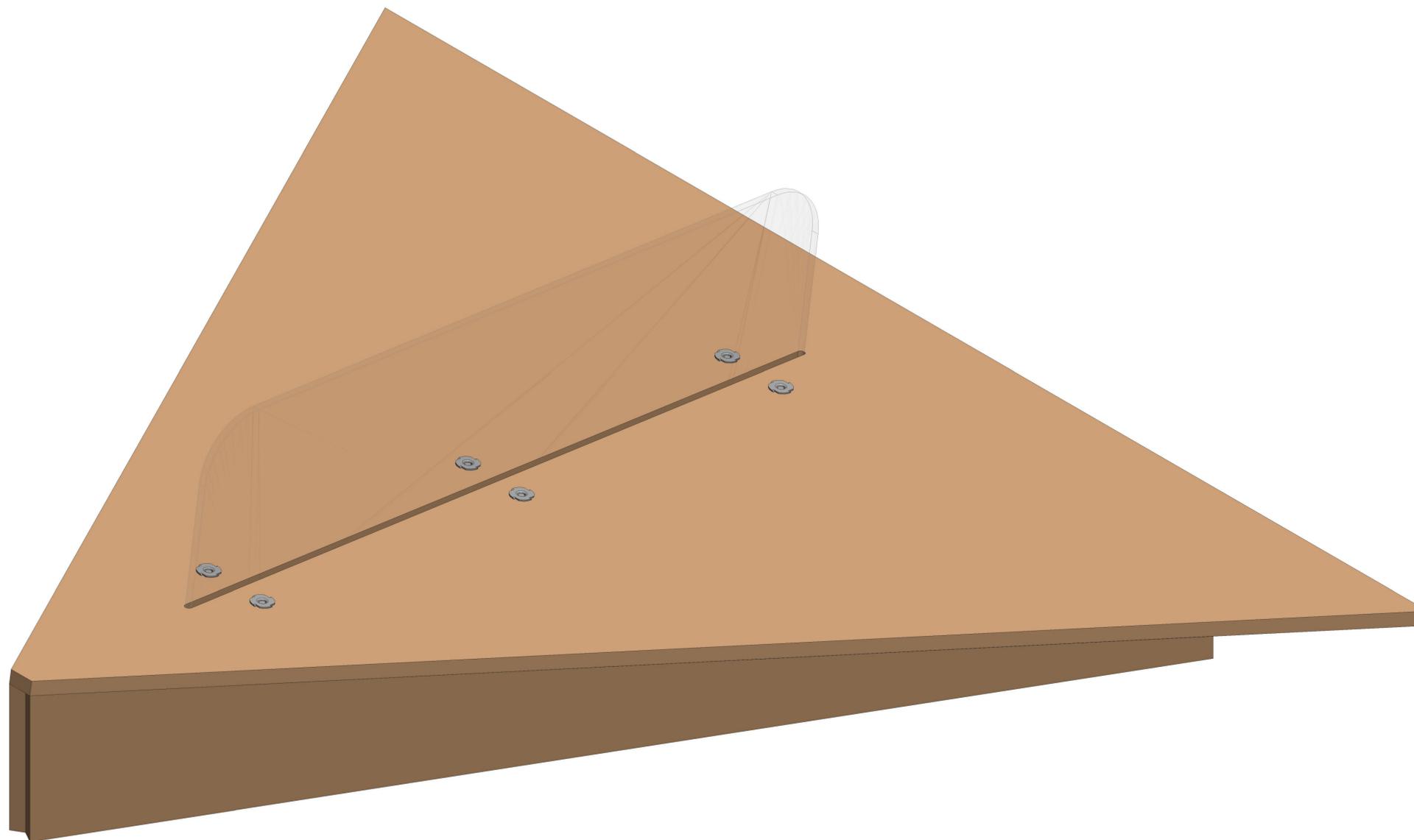
.00 3.00 8.95 14.90 20.85 23.80

Note:

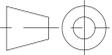
Material: Clear Polycarbonate, .75 thick
Scale 1:8
Qty: 4

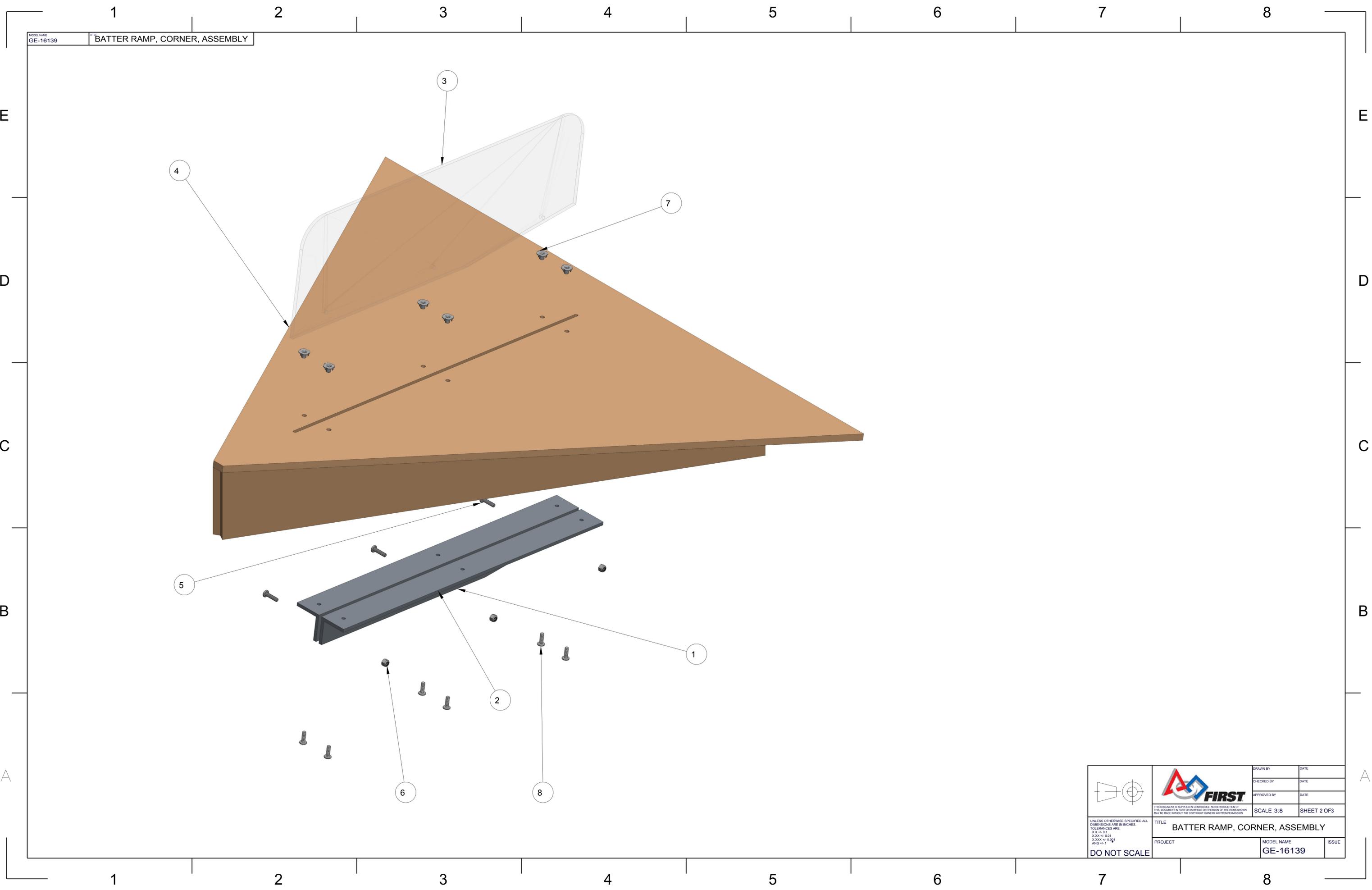
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TITLE BR, MBUMP			
PROJECT		MODEL NAME GE-16138-05	ISSUE

DO NOT SCALE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16145	1	divider brace 1	See Drawing
2	GE-16146	1	divider brace 2	See Drawing
3	GE-16147	1	divider, batter	See Drawing
4	GE-16189	1	BATTER RAMP, CORNER	See Drawing
5	HW-00086	3	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	3	nut, nylock 1/4-20	Hardware
7	HW-00116	6	1/4"-20, 3/8" long, Tee Nut Insert	Hardware
8	HW-00117	6	1/4"-20, .75" Long, Phillips Machine Screw	Hardware

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ±.01 X.XXX ±.001 ANG ±.1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE	
		CHECKED BY	DATE	
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	<p>TITLE BATTER RAMP, CORNER, ASSEMBLY</p>		SCALE 1:2	SHEET 1 OF 3
<p>PROJECT</p>		MODEL NAME GE-16139	ISSUE	



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	APPROVED BY	DATE
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TITLE	BATTER RAMP, CORNER, ASSEMBLY	
PROJECT	MODEL NAME	ISSUE
DO NOT SCALE	GE-16139	

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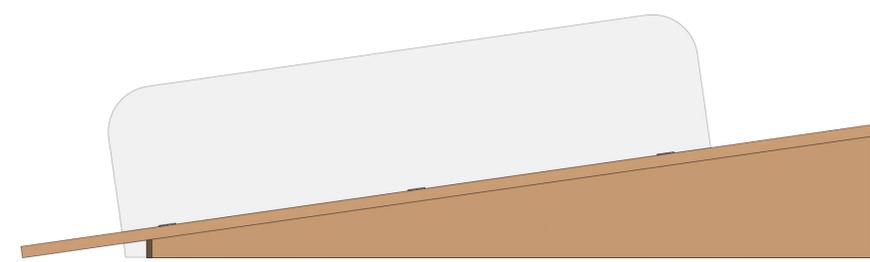
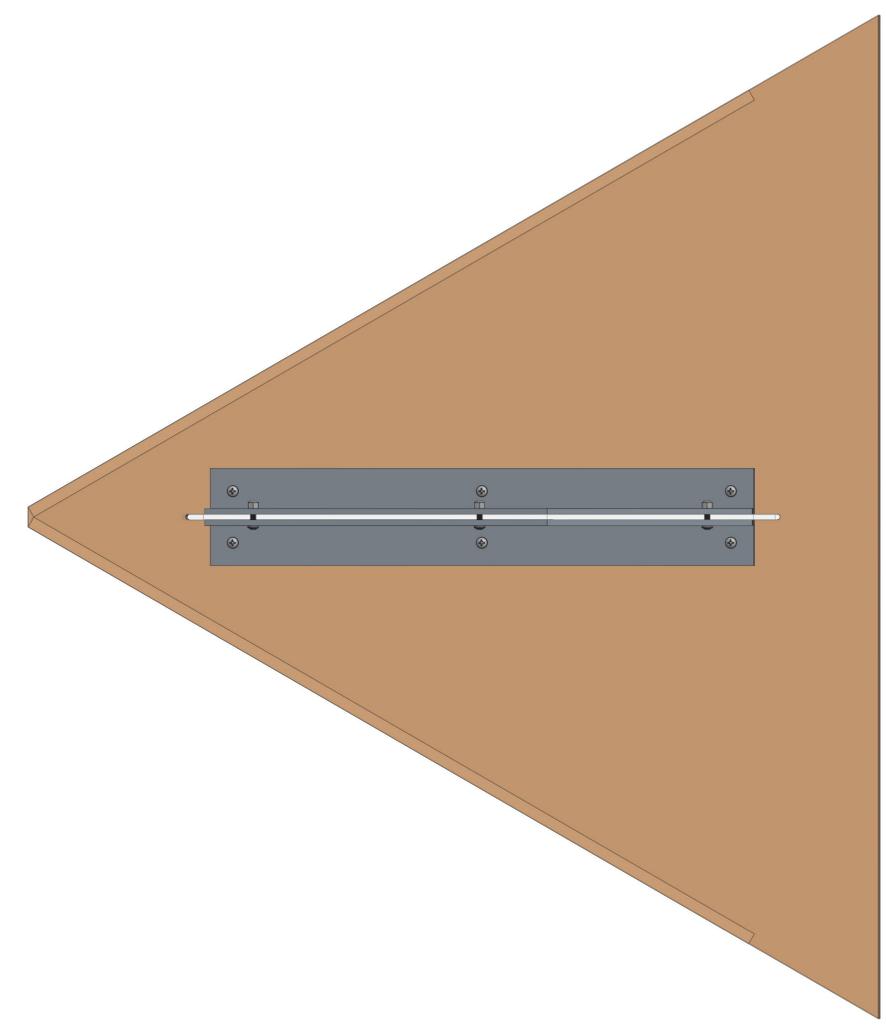
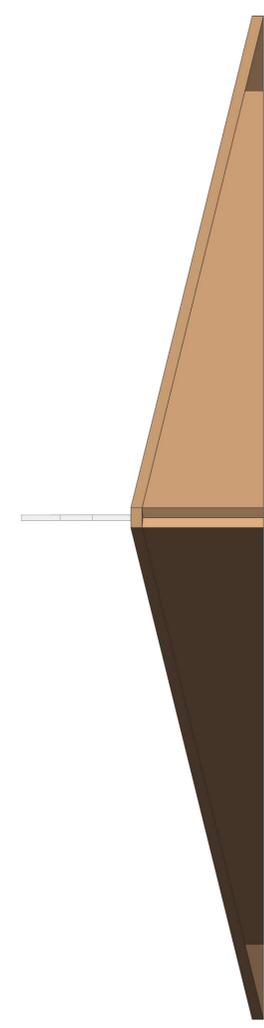
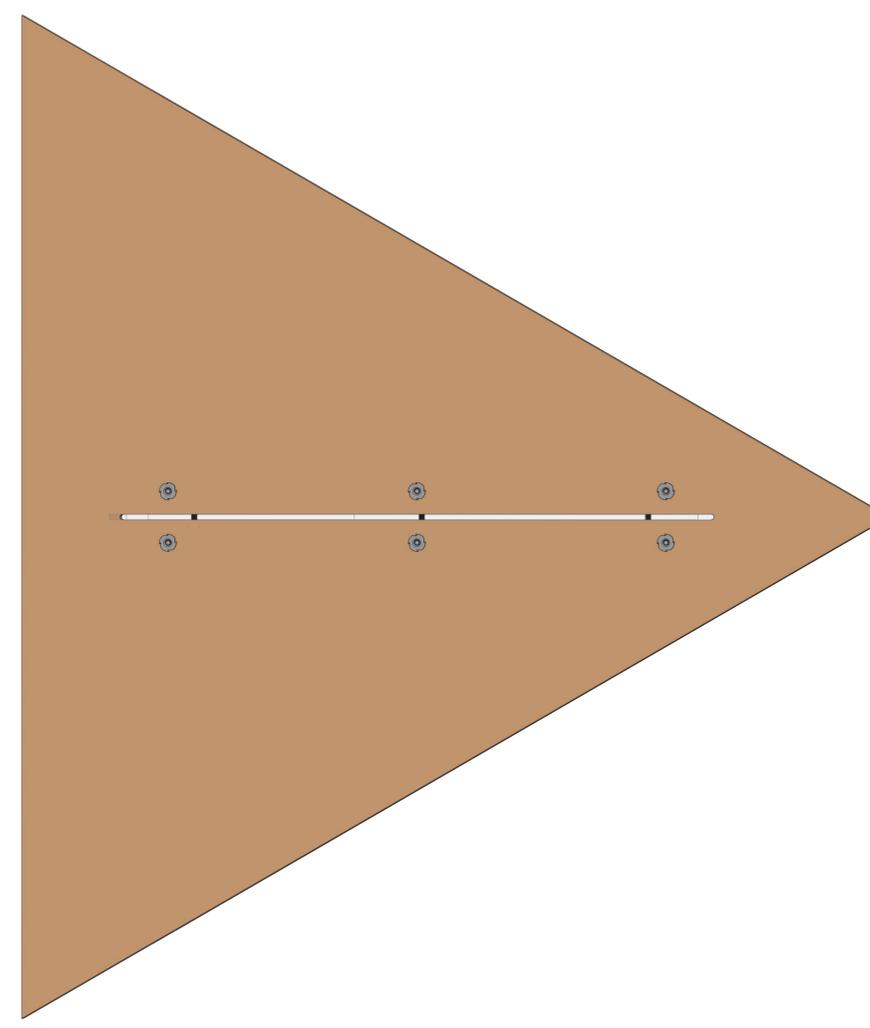
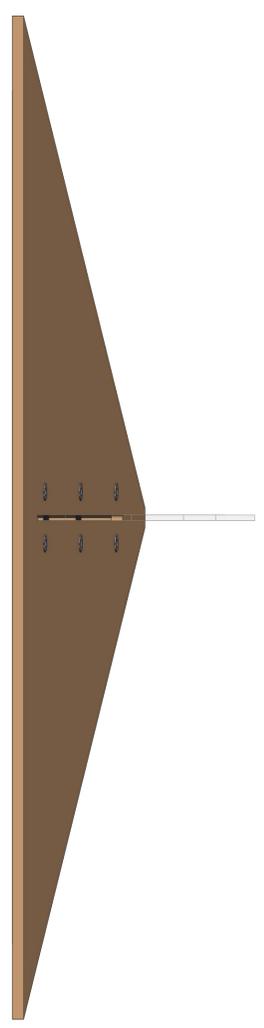
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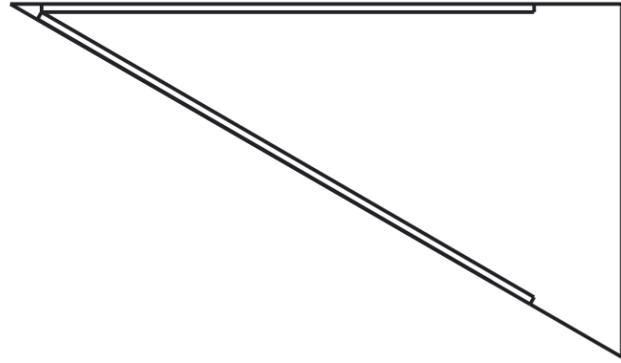
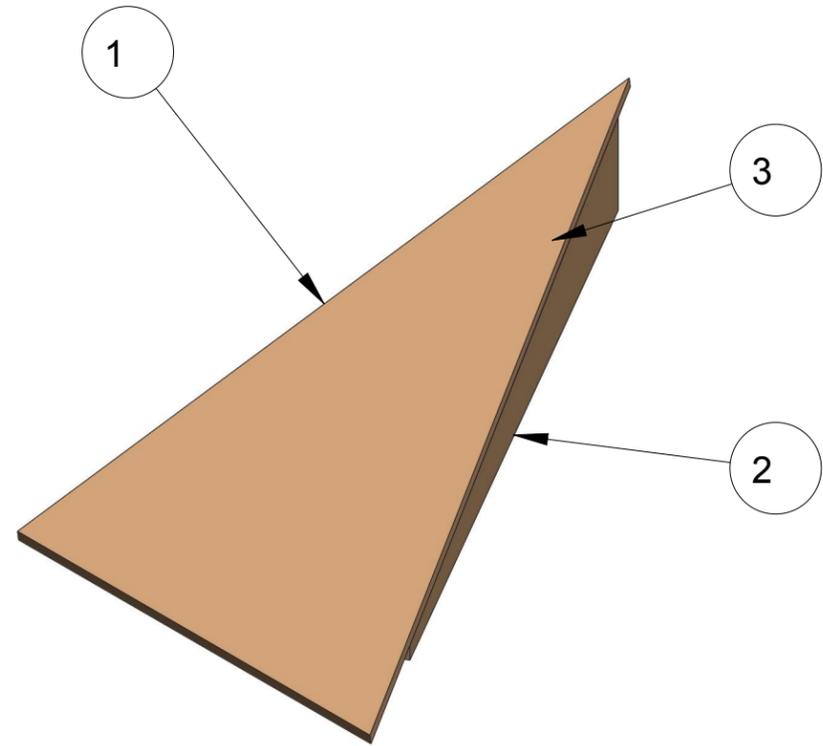


		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small>	
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TITLE BATTER RAMP, CORNER, ASSEMBLY		MODEL NAME	ISSUE
PROJECT		GE-16139	
DO NOT SCALE			

1 2 3 4 5 6 7 8

MODEL NAME
GE-16140

TITLE
BR, HALF CORNER 1

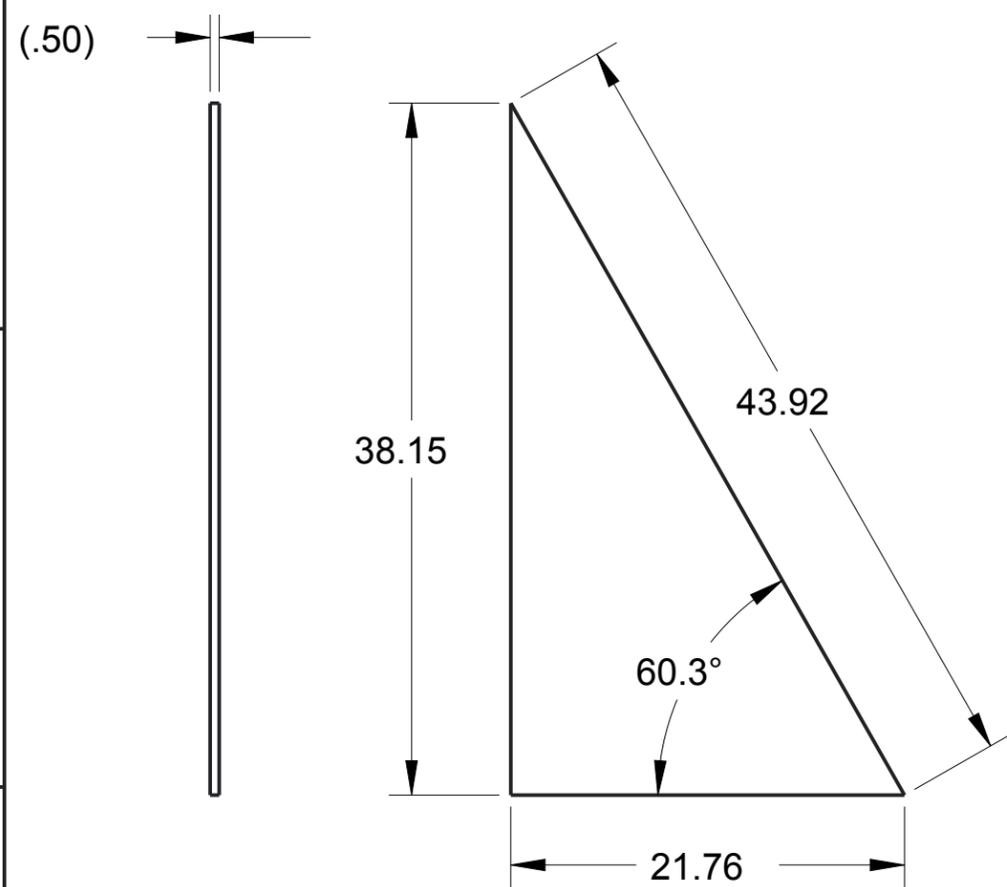


ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16140-01	1	ge-16140-01.prt	1/2" Plywood
2	GE-16140-02	1	ge-16140-02.prt	1/2" Plywood
3	GE-16140-03	1	ge-16140-03.prt	1/2" Plywood

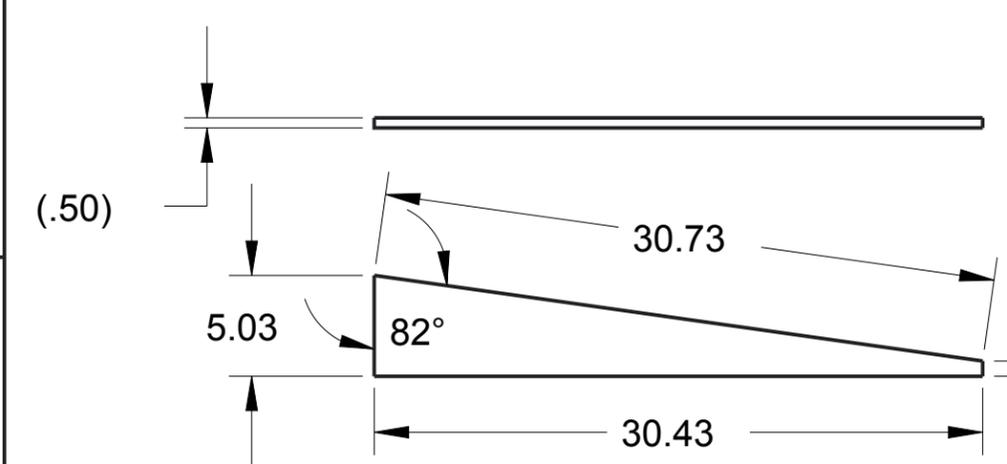
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TITLE BR, HALF CORNER 1		
PROJECT		MODEL NAME GE-16140
ISSUE		

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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

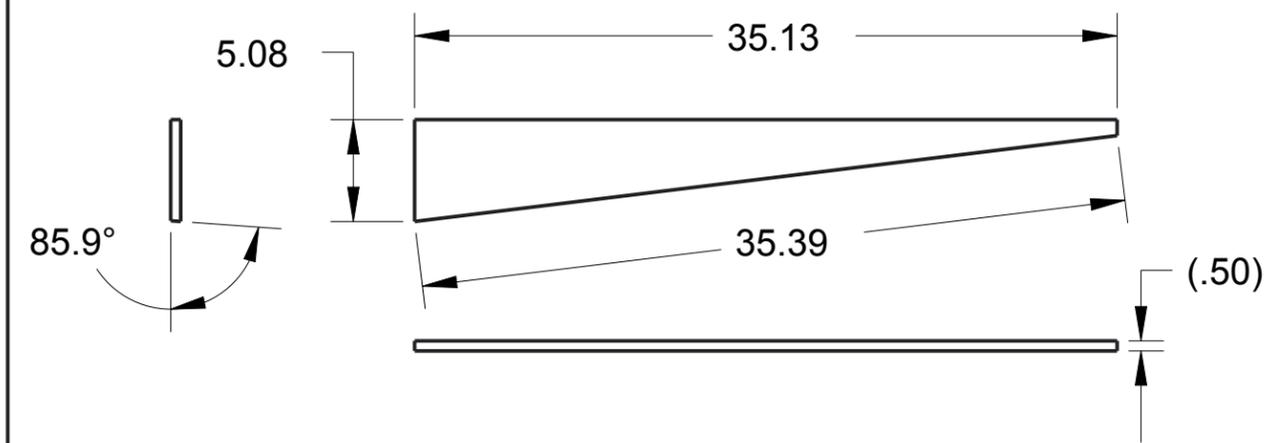
DO NOT SCALE



NOTE
Part: GE-16140-01
Material: 1/2" Plywood
Qty: 1



NOTE
Part: GE-16140-03
Material: 1/2" Plywood
Qty: 1



NOTE
Part: GE-16140-03
Material: 1/2" Plywood
Qty: 1

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		APPROVED BY	DATE
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TITLE BATTER RAMP, HALF CORNER 1			
PROJECT		MODEL NAME GE-16140	ISSUE
DO NOT SCALE			

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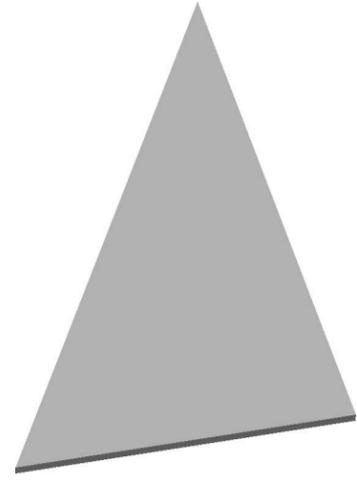
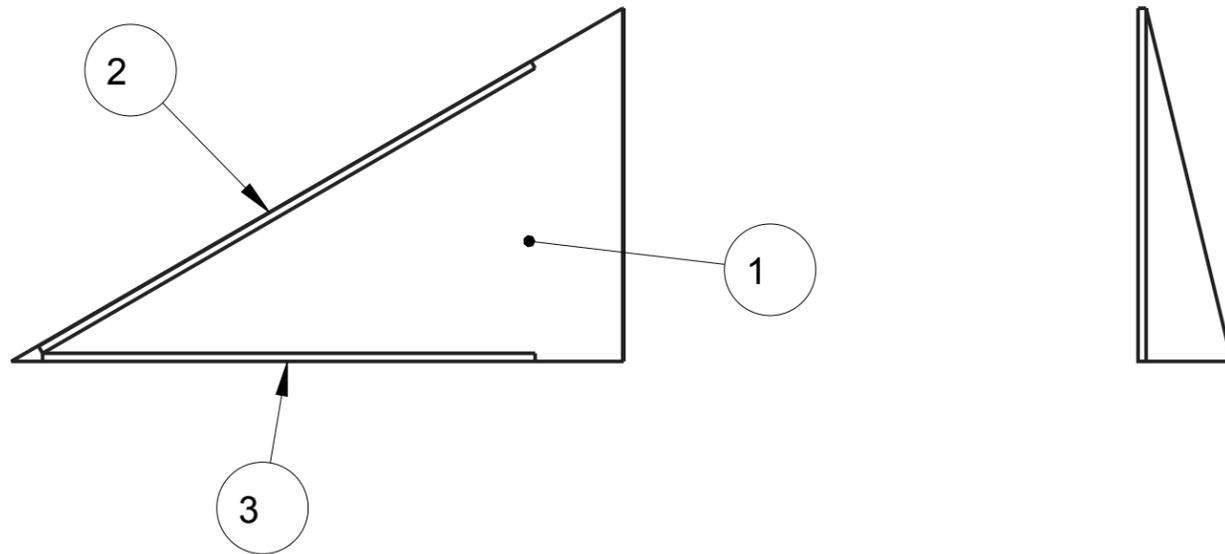
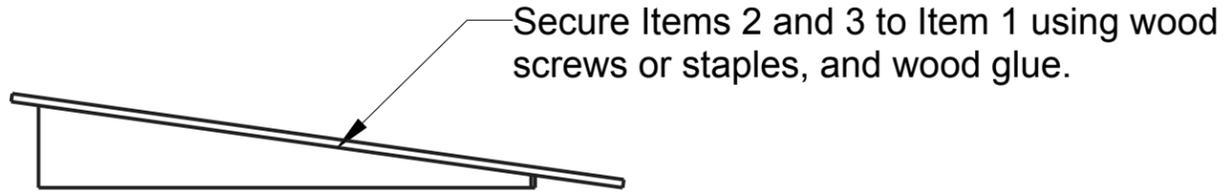
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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16141-01	1	ge-16141-01.prt	1/2" Plywood
2	GE-16141-02	1	ge-16141-02.prt	1/2" Plywood
3	GE-16141-03	1	ge-16141-03.prt	1/2" Plywood

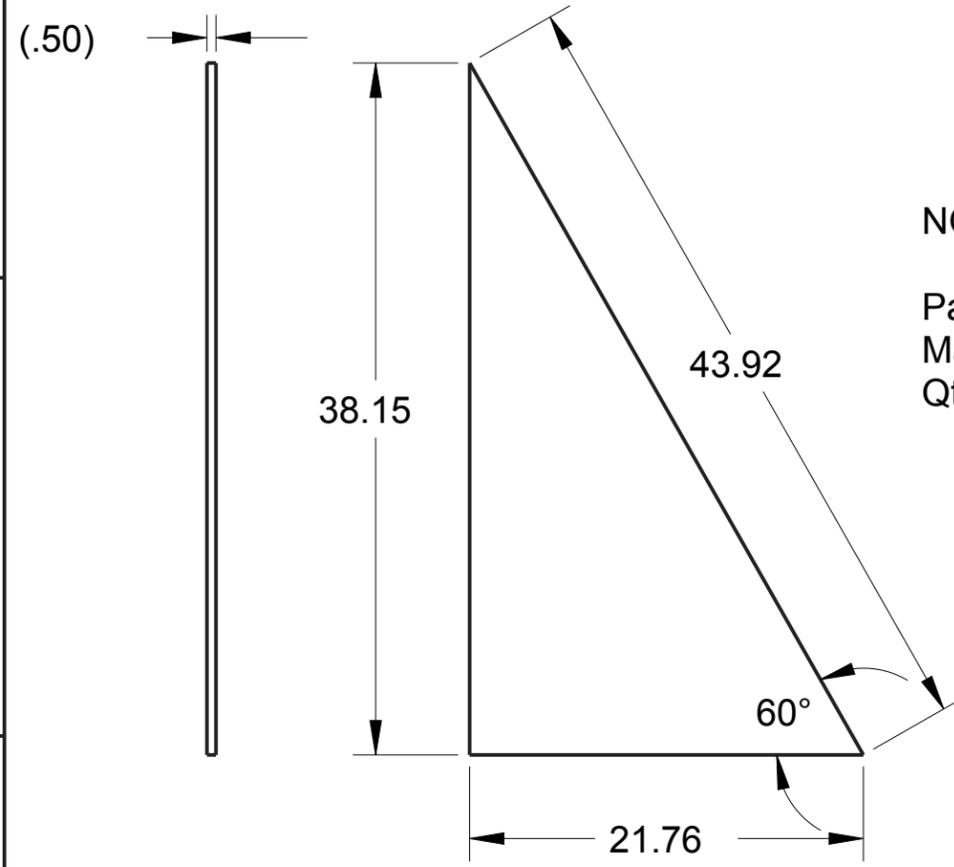
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TITLE BATTER RAMP, HALF CORNER 2		
PROJECT		MODEL NAME GE-16141
ISSUE		

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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

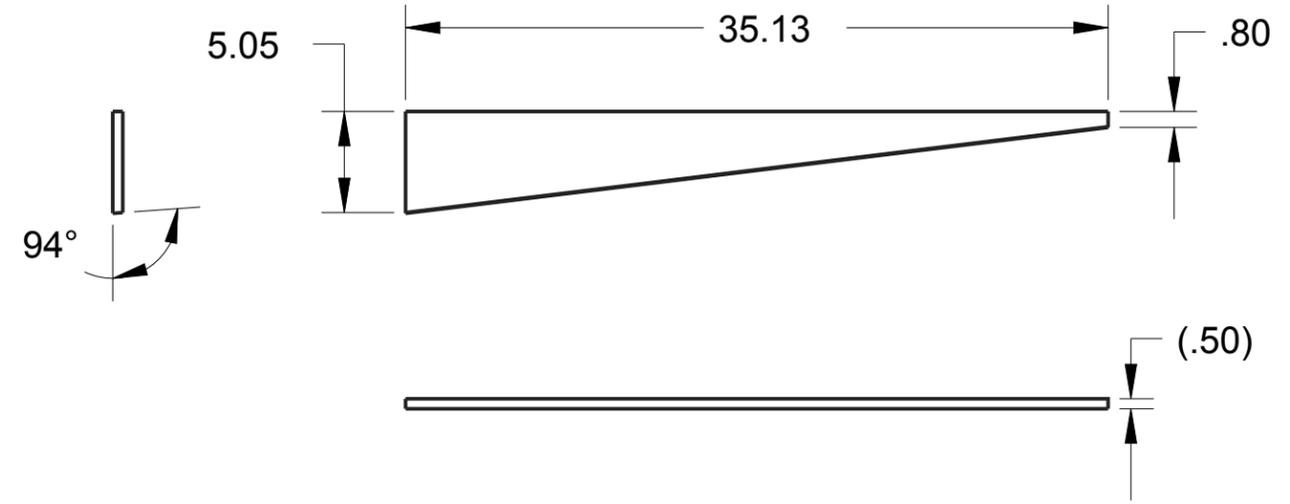
DO NOT SCALE

MODEL NAME
GE-16141

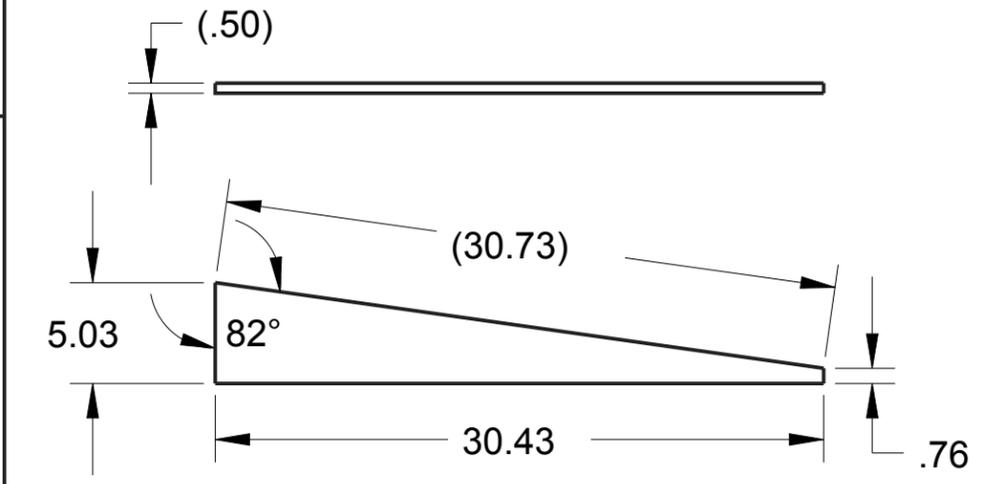
TITLE
BATTER RAMP, HALF CORNER 2



NOTE
Part: GE-16141-01
Material: 1/2" Plywood
Qty: 1



NOTE
Part: GE-16141-02
Material: 1/2" Plywood
Qty: 1



NOTE
Part: GE-16141-03
Material: 1/2" Plywood
Qty: 1

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	APPROVED BY	DATE
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TITLE BATTER RAMP, HALF CORNER 2		
PROJECT	MODEL NAME GE-16141	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE

MODEL NAME
GE-16142

TITLE
BATTER PLASTIC, MIDDLE RAMP

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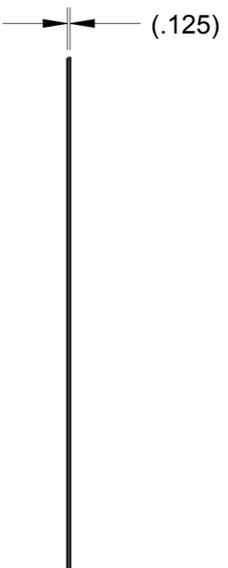
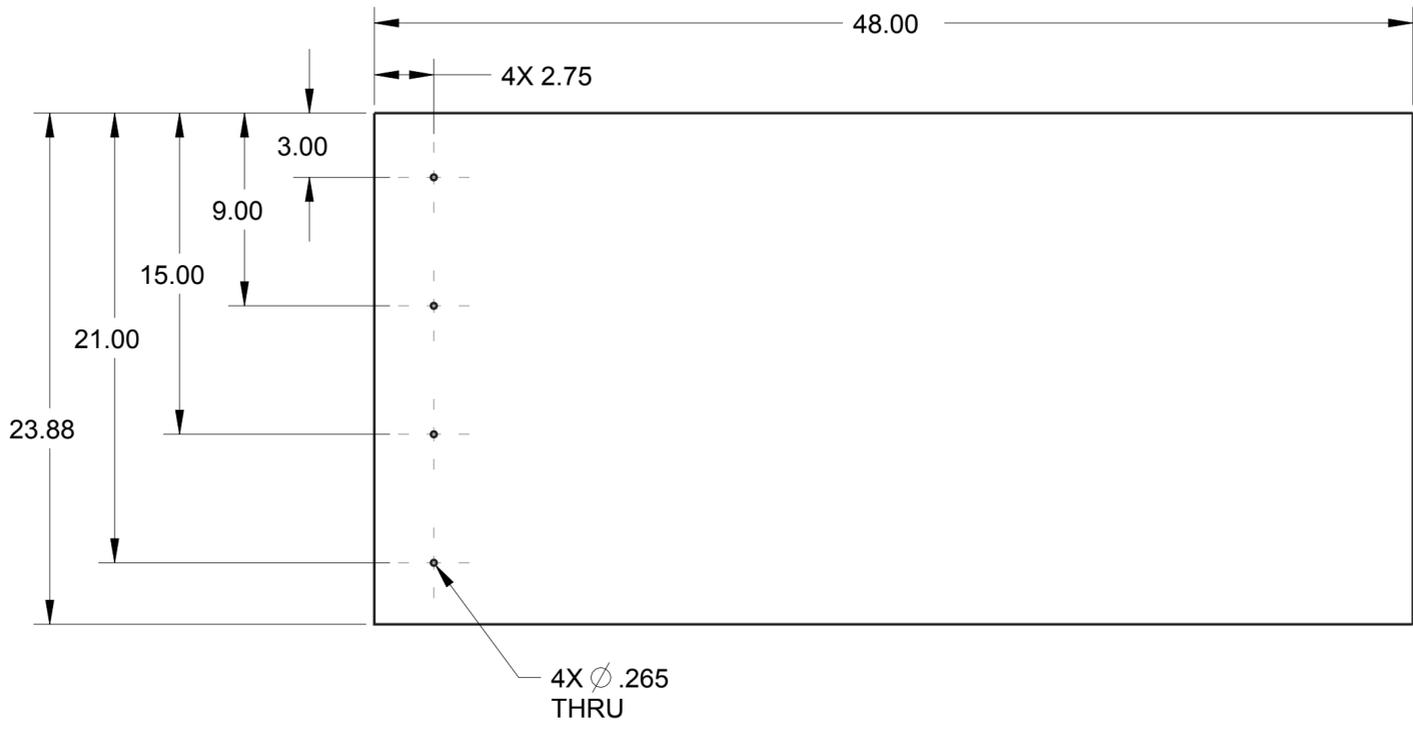
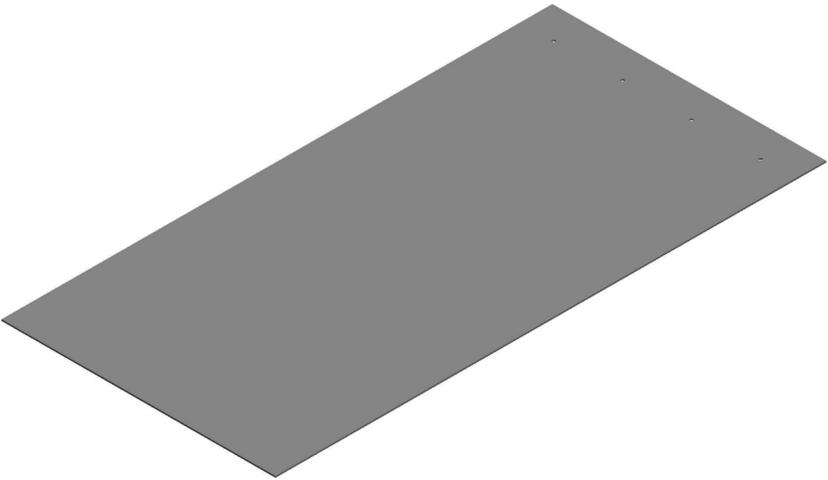
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- NOTES:
 1. MATERIAL: 1/8" HDPE
 2. COLOR: GRAY
 3. FINISH: SMOOTH
 4. REMOVE ALL BURRS AND SHARP EDGES.

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		CHECKED BY	DATE
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		SCALE 1:6	SHEET 1 OF 1
TITLE BATTER PLASTIC, MIDDLE RAMP		PROJECT	MODEL NAME GE-16142
DO NOT SCALE			ISSUE

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MODEL NAME
GE-16144

TITLE
Batter Plastic, Half Corner

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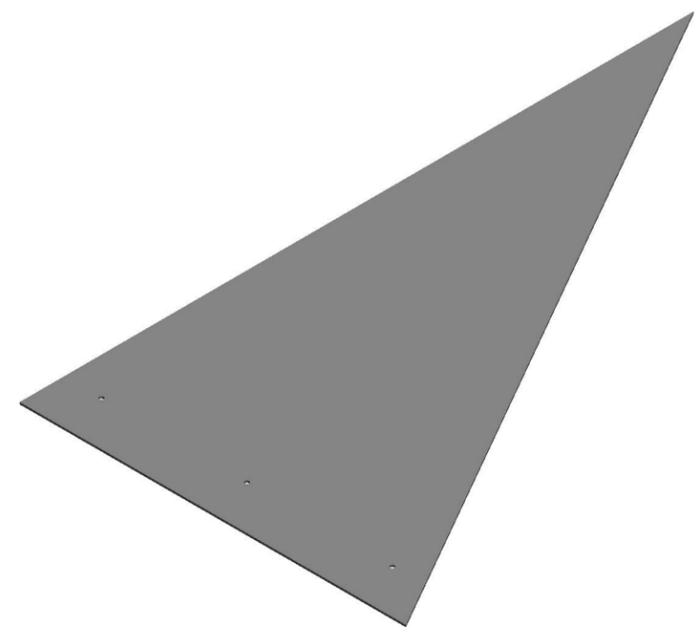
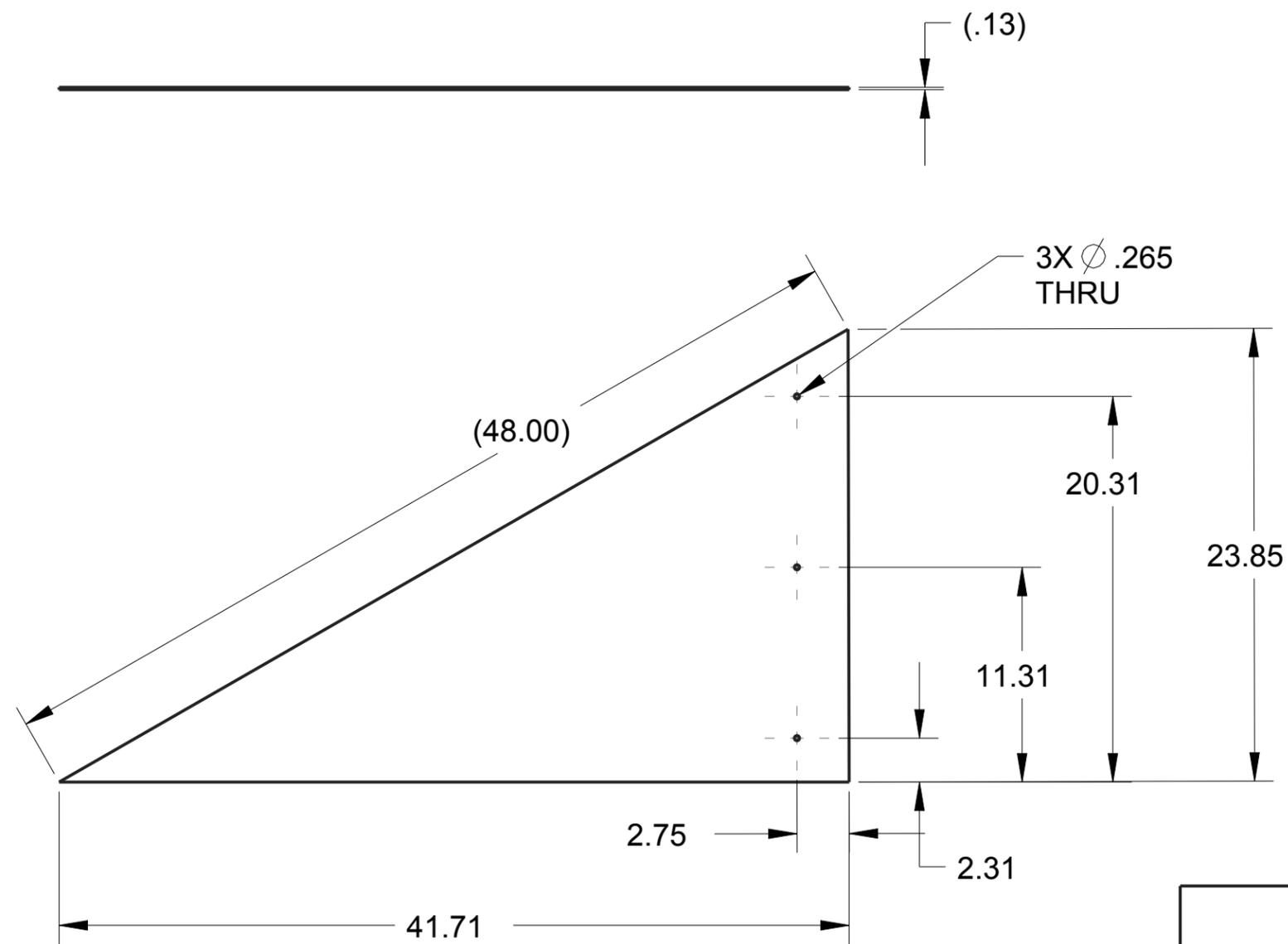
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- Notes:
1. Material: 1/8" thick HDPE
 2. Color: Gray
 3. Texture: Smooth

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	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE Batter Plastic, Half Corner	
DO NOT SCALE	PROJECT	MODEL NAME GE-16144
		ISSUE

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MODEL NAME
GE-16145

TITLE
DIVIDER BRACE 1

1

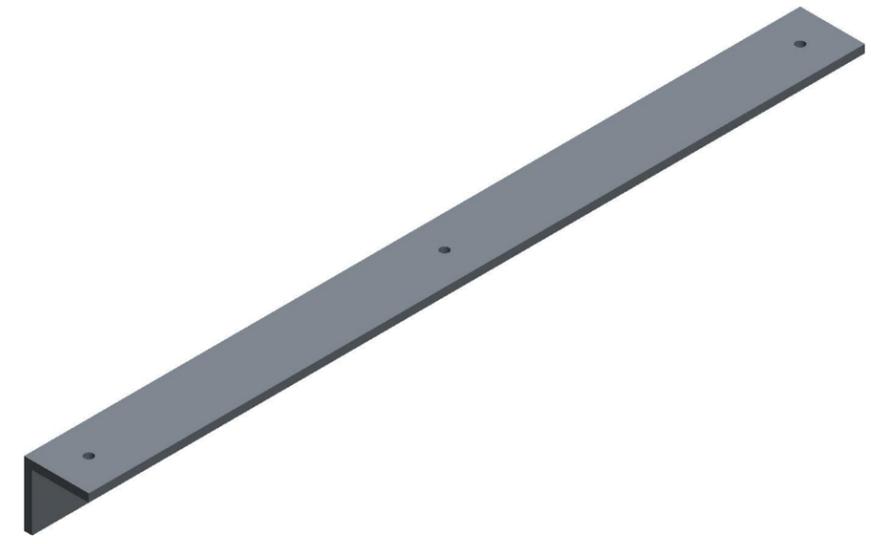
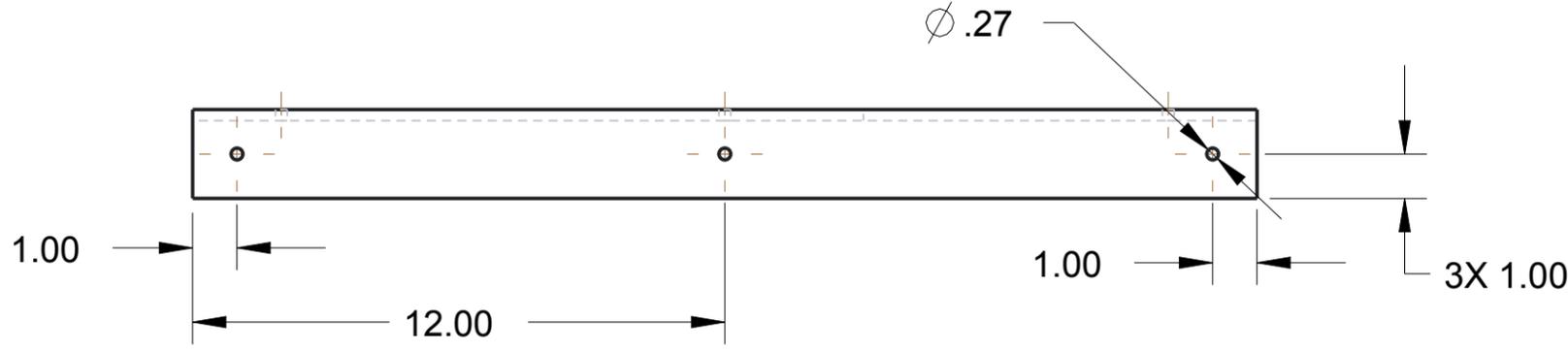
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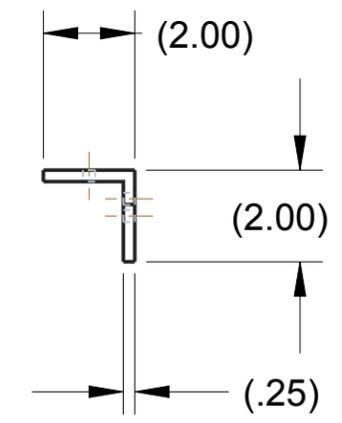
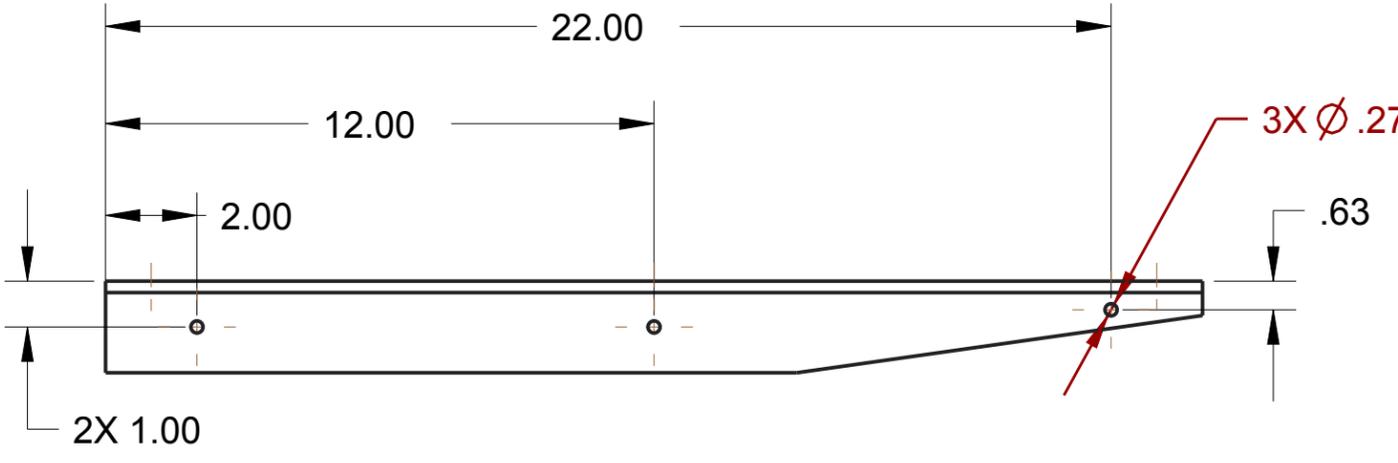
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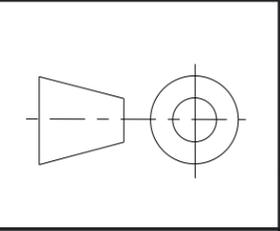
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NOTE

Material: 2" Aluminum Angle, .25" Wall

Remove all sharp edges and burrs



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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

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SCALE 1:4	SHEET 1 OF 1

TITLE DIVIDER BRACE 1	
PROJECT	MODEL NAME GE-16145
ISSUE	

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MODEL NAME
GE-16146

TITLE
DIVIDER BRACE 2

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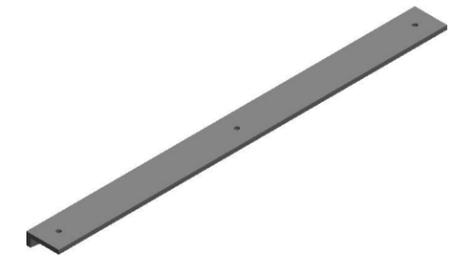
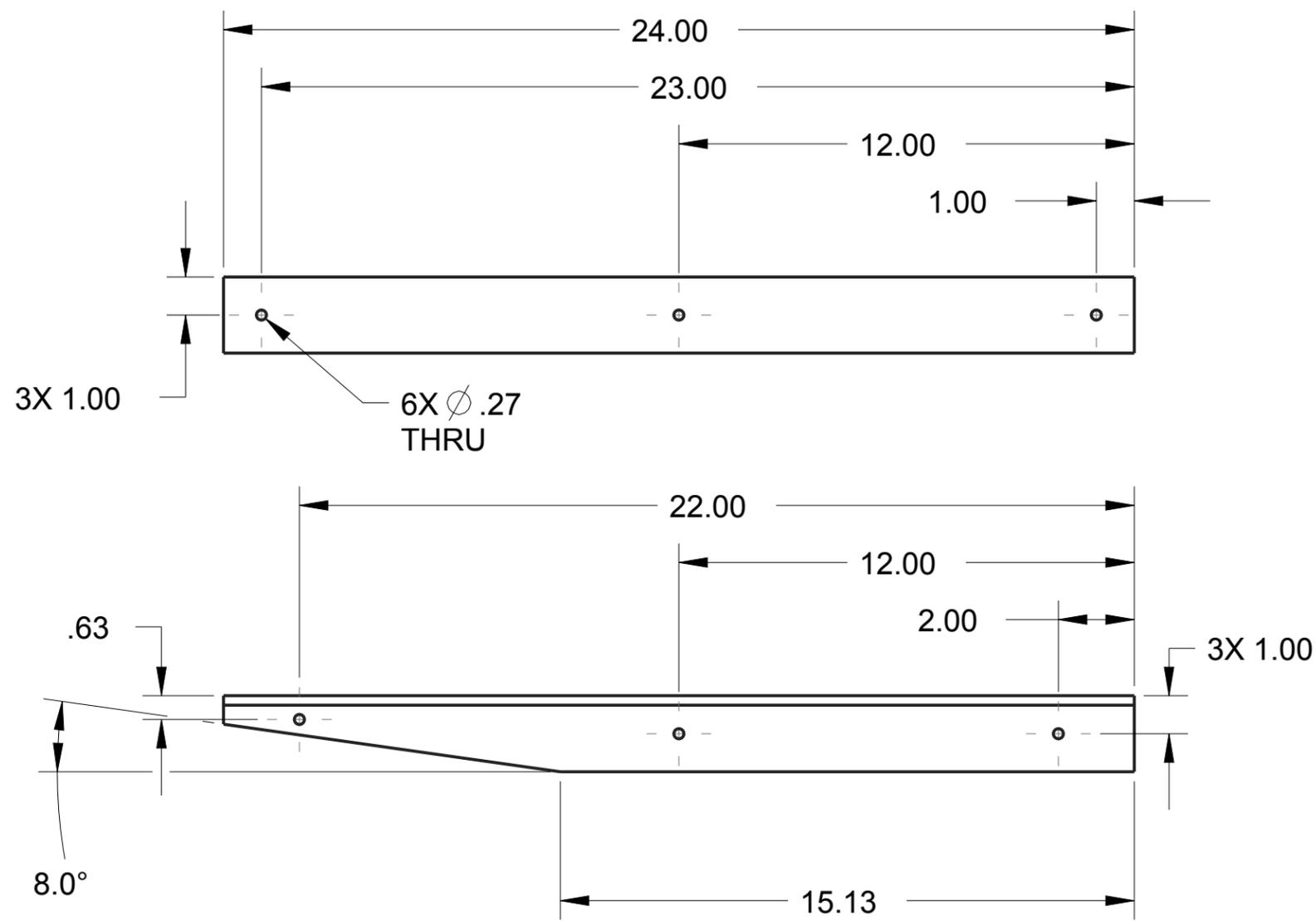
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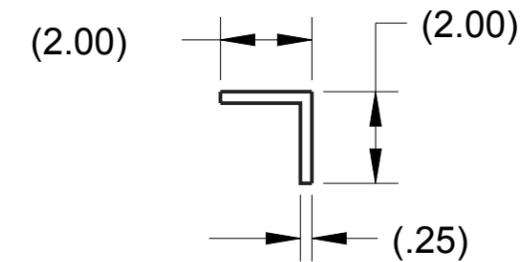
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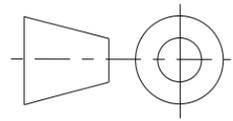
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SCALE 1:8



NOTES:
 1. MATERIAL: 2" X .25" ANGLE, 6061 ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES.

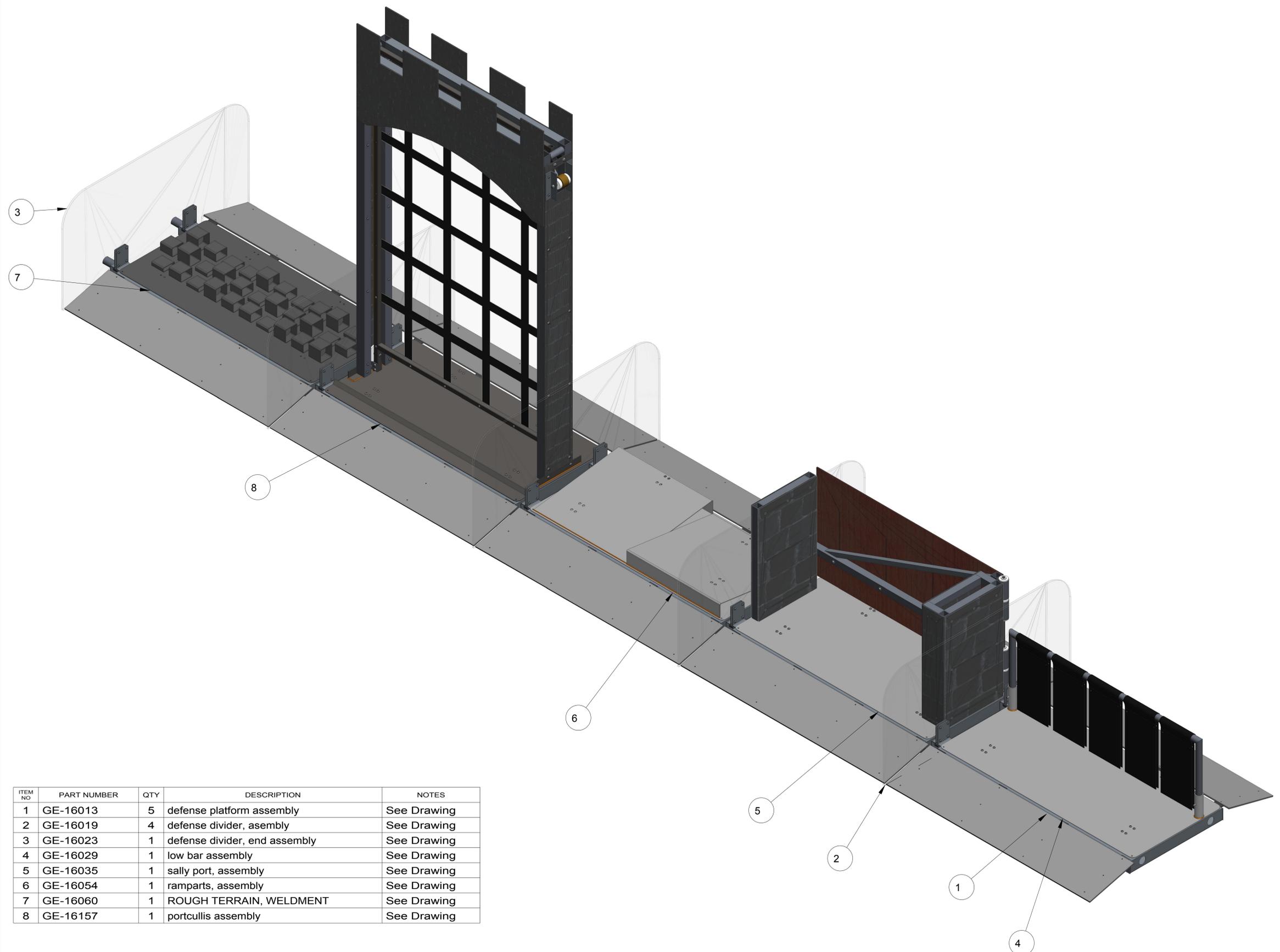
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	TITLE DIVIDER BRACE 2	
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	PROJECT	MODEL NAME GE-16146
DO NOT SCALE		ISSUE

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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16013	5	defense platform assembly	See Drawing
2	GE-16019	4	defense divider, assembly	See Drawing
3	GE-16023	1	defense divider, end assembly	See Drawing
4	GE-16029	1	low bar assembly	See Drawing
5	GE-16035	1	sally port, assembly	See Drawing
6	GE-16054	1	ramparts, assembly	See Drawing
7	GE-16060	1	ROUGH TERRAIN, WELDMENT	See Drawing
8	GE-16157	1	portcullis assembly	See Drawing

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 7:64 SHEET 1 OF 5	
TITLE: Outer Works 1		
PROJECT:		MODEL NAME: GE-16148
DO NOT SCALE		ISSUE:

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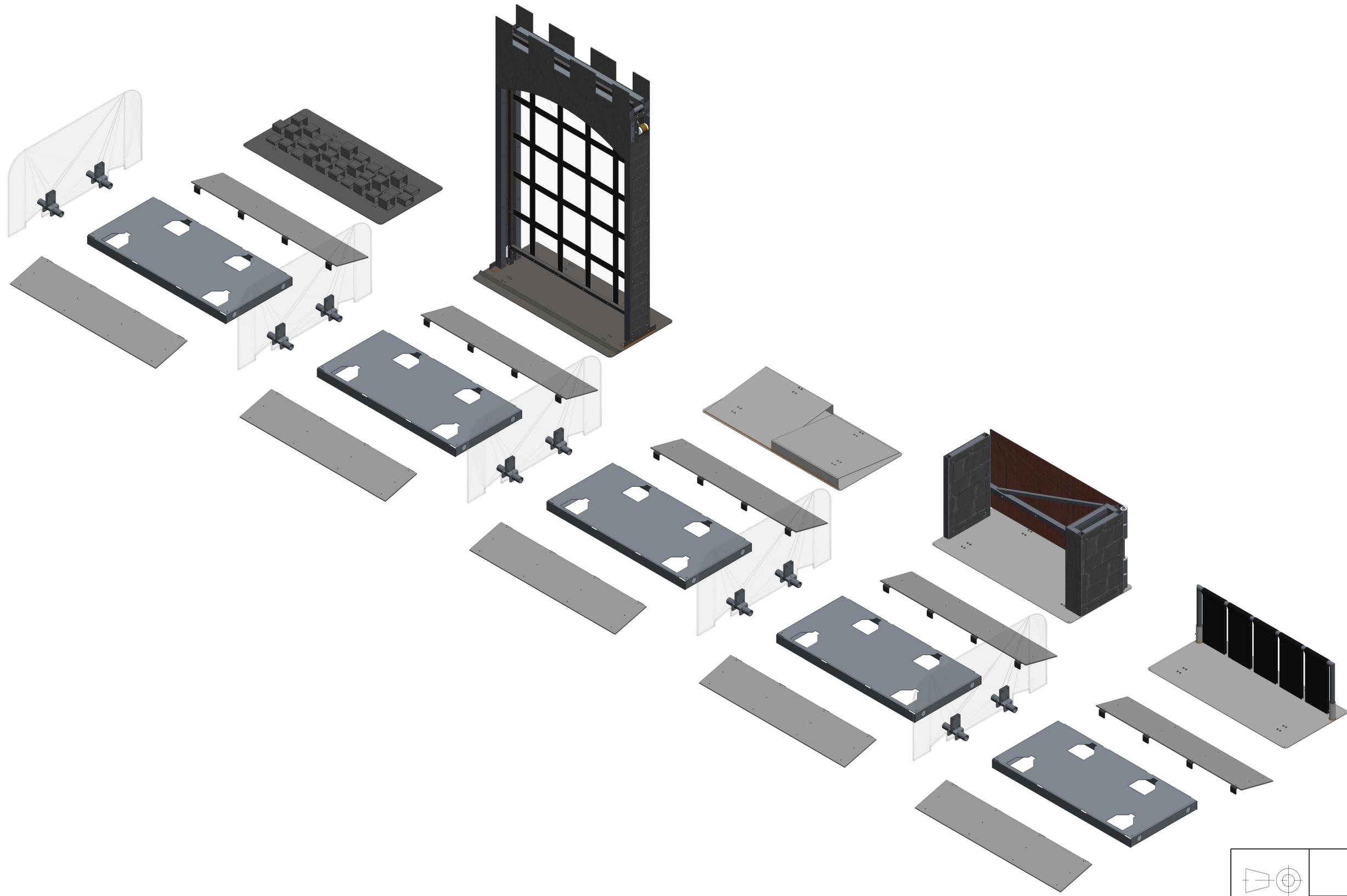
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MODEL NAME: GE-16148 TITLE: Outer Works 1



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	<p>TITLE: Outer Works 1</p>	<p>SCALE 5:64 SHEET 2 OF 5</p>
	<p>PROJECT: _____</p>	<p>MODEL NAME: GE-16148</p>
	<p>ISSUE: _____</p>	<p>ISSUE: _____</p>

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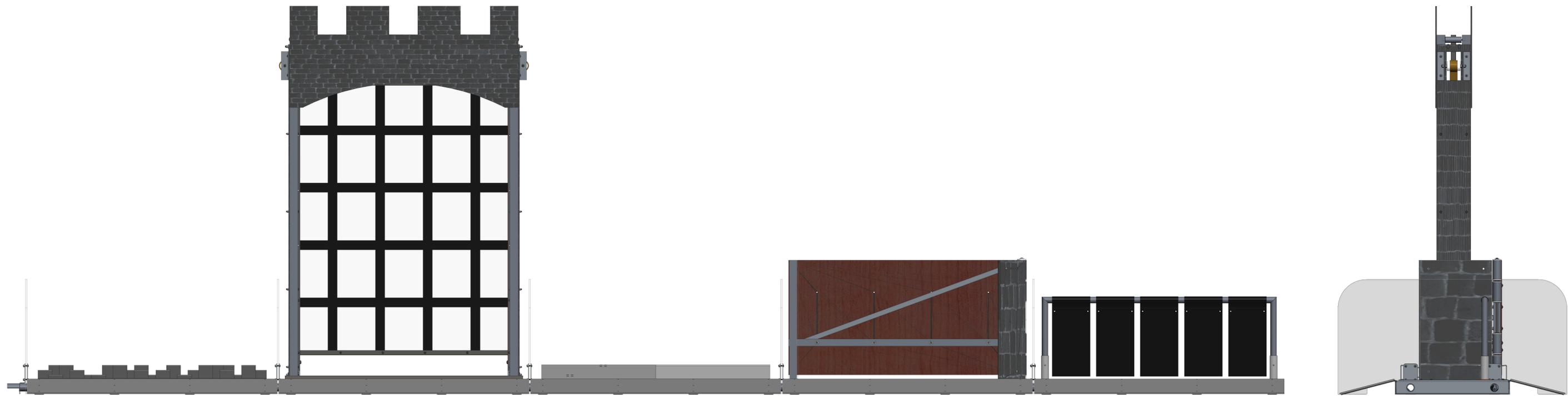
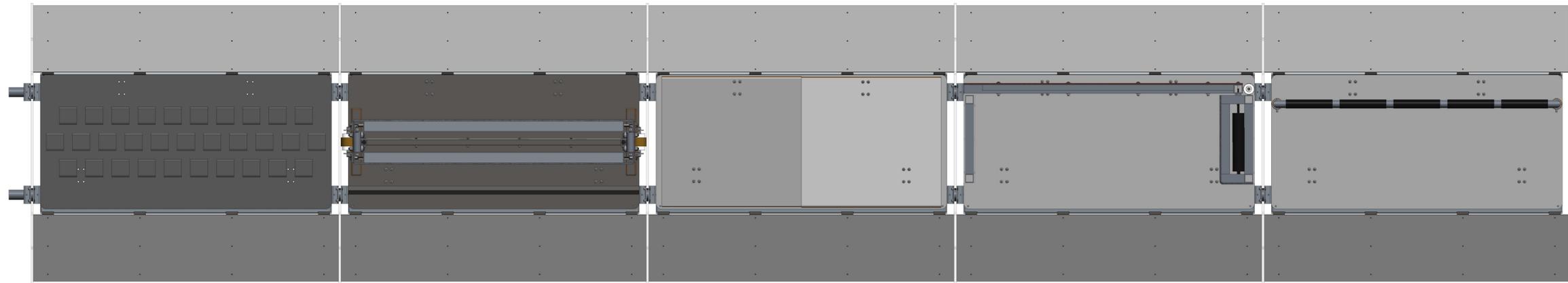
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MODEL NAME: GE-16148 TITLE: Outer Works 1



NOTE: Defenses shown are placed to show relationships and are not necessarily placed according to gameplay criteria.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 3:32 SHEET 3 OF 5	
TITLE: Outer Works 1 PROJECT: MODEL NAME: GE-16148 ISSUE:		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX +/- 0.1
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 DO NOT SCALE

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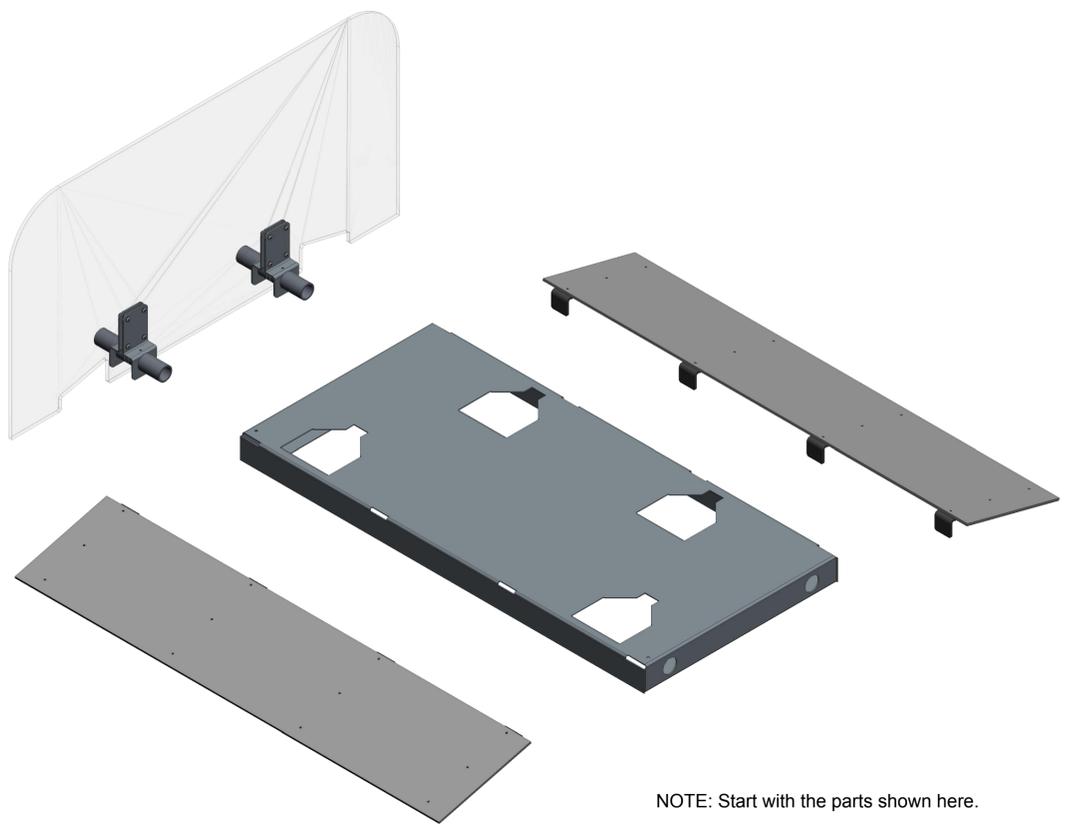
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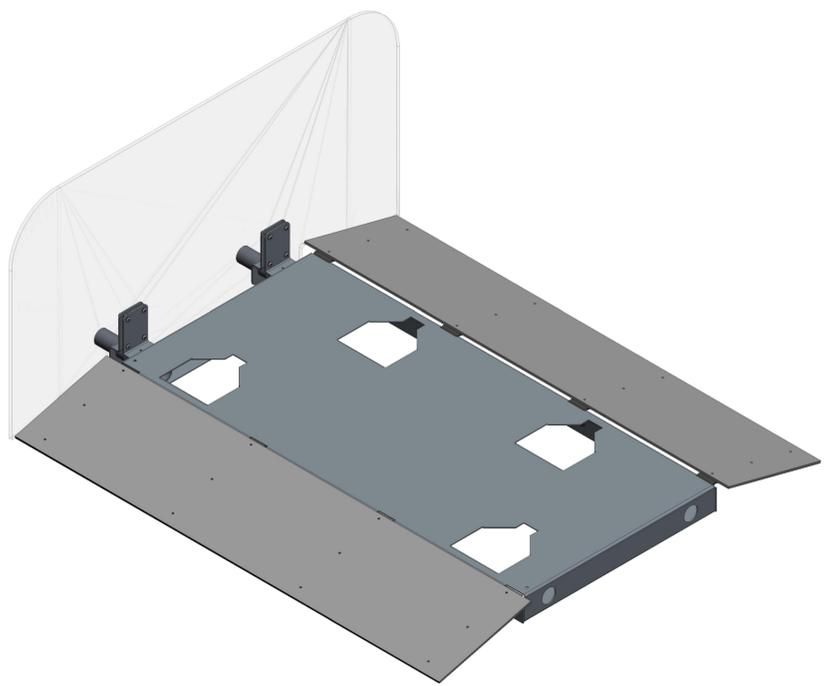
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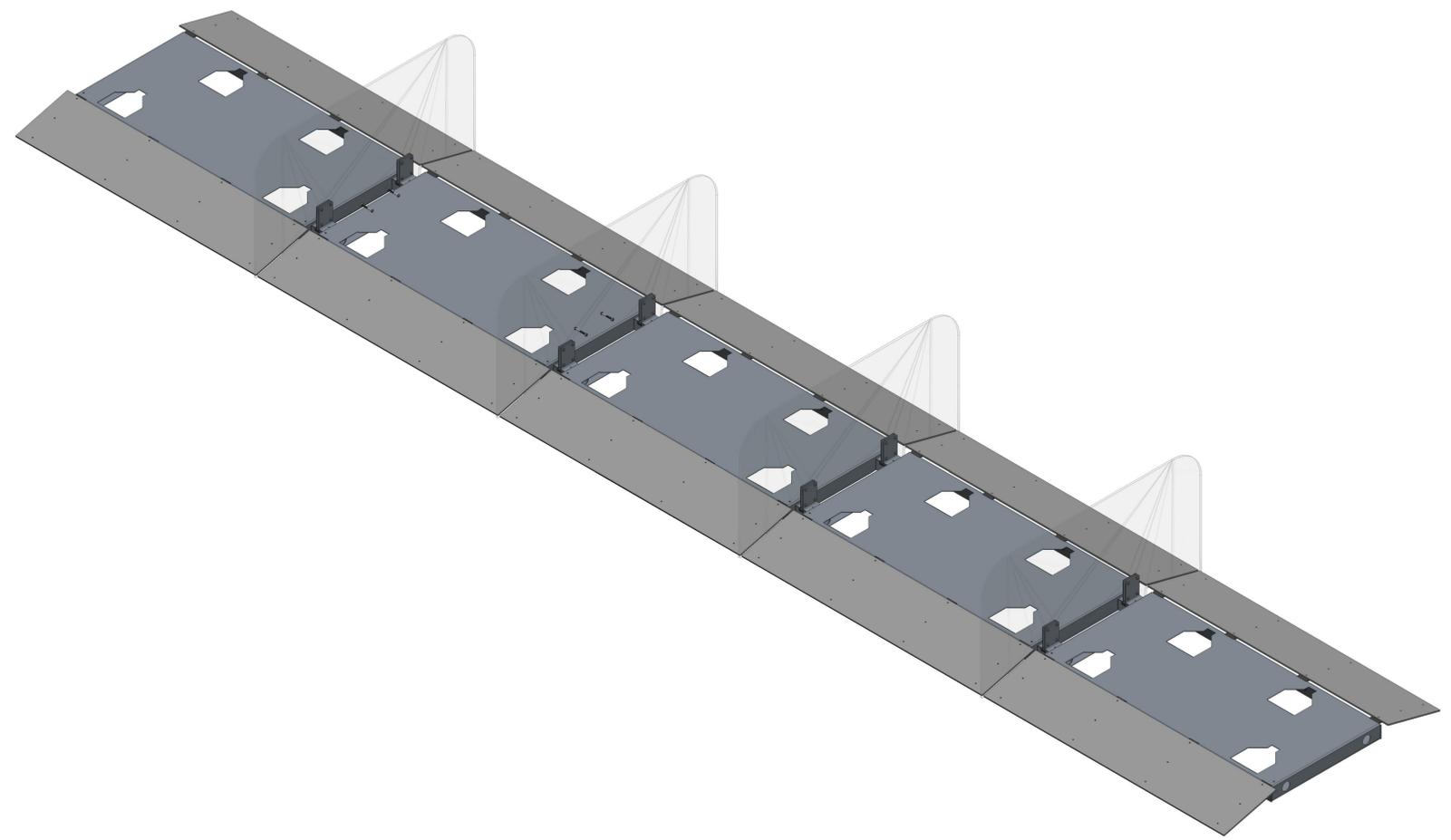


NOTE: Start with the parts shown here.



NOTE: Slide the ramps into the receiver slots on the sides of the Platform. Then slide the pegs of the Defense Divider into the receiver holes in the Defense Platform.

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NOTE: Repeat the last step until the assembly looks like this.

	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	TITLE: Outer Works 1 PROJECT: _____ MODEL NAME: GE-16148 SCALE: 7:64 SHEET 4 OF 5
	ISSUE: _____
	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1 DO NOT SCALE

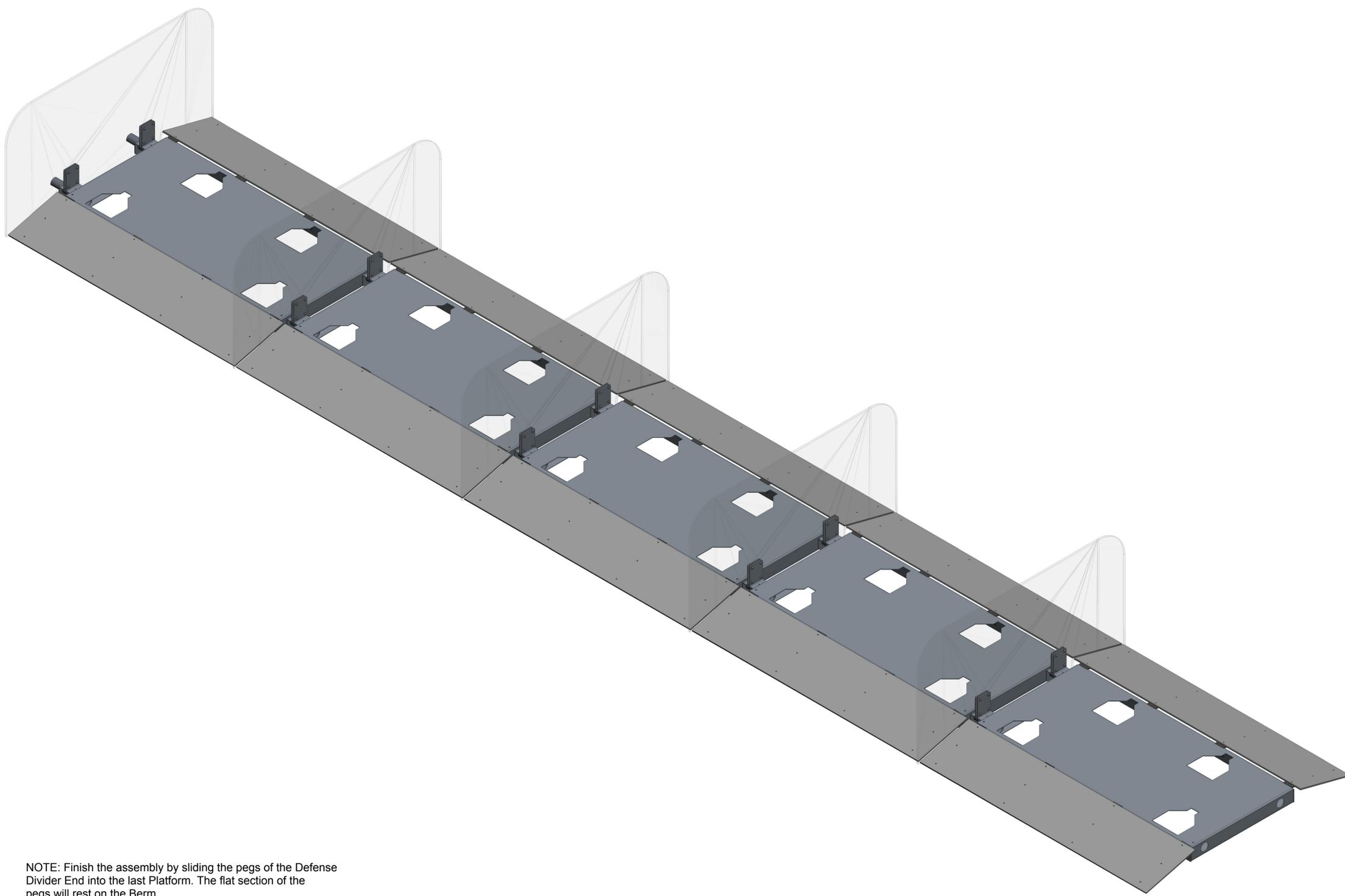
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NOTE: Finish the assembly by sliding the pegs of the Defense Divider End into the last Platform. The flat section of the pegs will rest on the Berm.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
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<p>TITLE: Outer Works 1</p>		PROJECT	ISSUE
		MODEL NAME: GE-16148	

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MODEL NAME
GE-16148

TITLE
Outer Works 1

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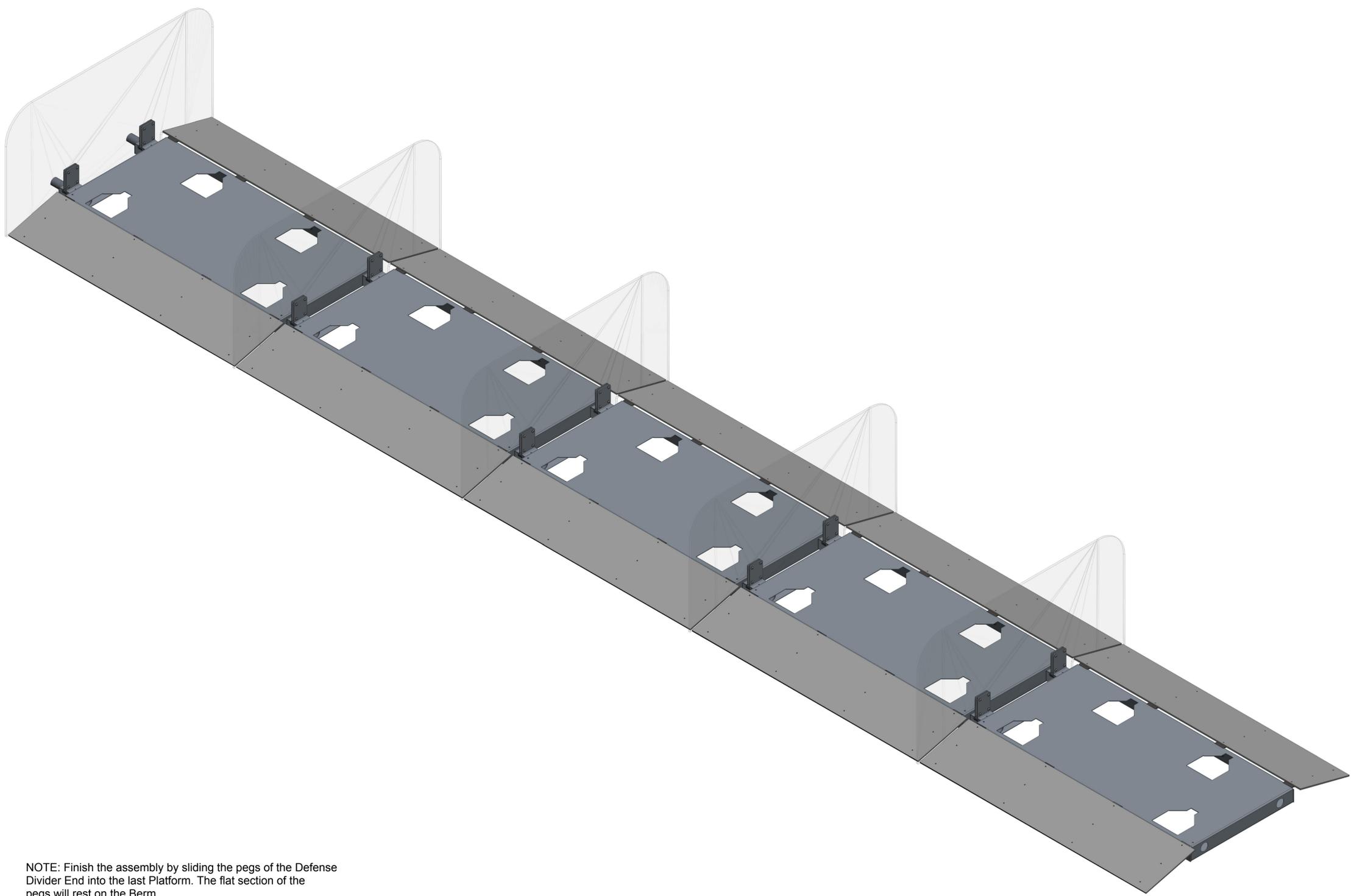
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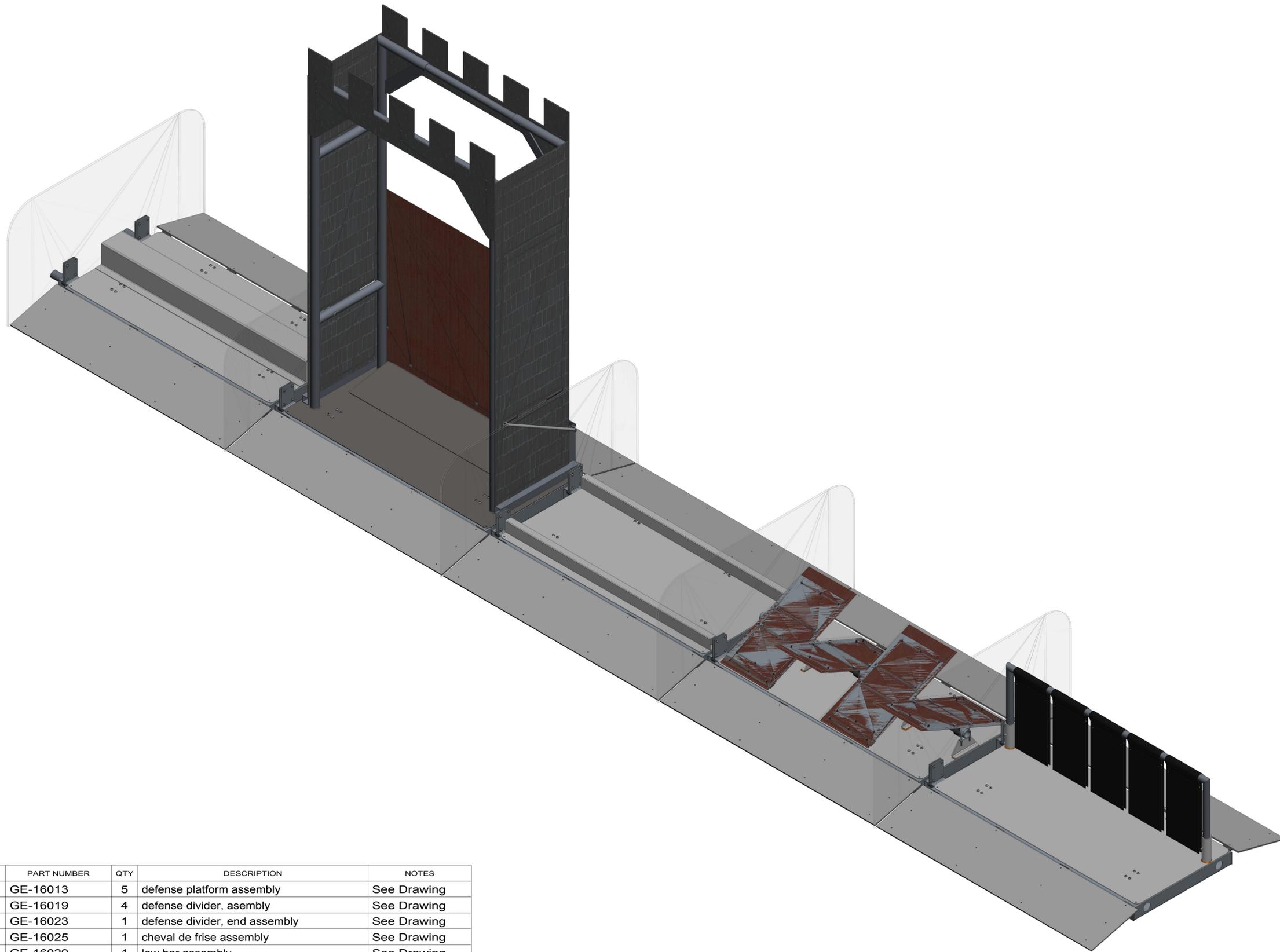
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NOTE: Finish the assembly by sliding the pegs of the Defense Divider End into the last Platform. The flat section of the pegs will rest on the Berm.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	 <p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IS PART OR IN WHOLE OR THE REVISION OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>	DRAWN BY	DATE
	CHECKED BY	DATE	
	APPROVED BY	DATE	
	SCALE 7:64		SHEET 5 OF 5
TITLE Outer Works 1		PROJECT	ISSUE
		MODEL NAME GE-16148	

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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16013	5	defense platform assembly	See Drawing
2	GE-16019	4	defense divider, assembly	See Drawing
3	GE-16023	1	defense divider, end assembly	See Drawing
4	GE-16025	1	cheval de frise assembly	See Drawing
5	GE-16029	1	low bar assembly	See Drawing
6	GE-16045	1	drawbridge assembly	See Drawing
7	GE-16075	1	moat assembly	See Drawing
8	GE-16080	1	rock wall assembly	See Drawing

	DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	DATE: _____ DATE: _____ DATE: _____
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	TITLE: Outer Works 2	SCALE: 7:64
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1	PROJECT: _____	MODEL NAME: GE-16149 ISSUE: _____
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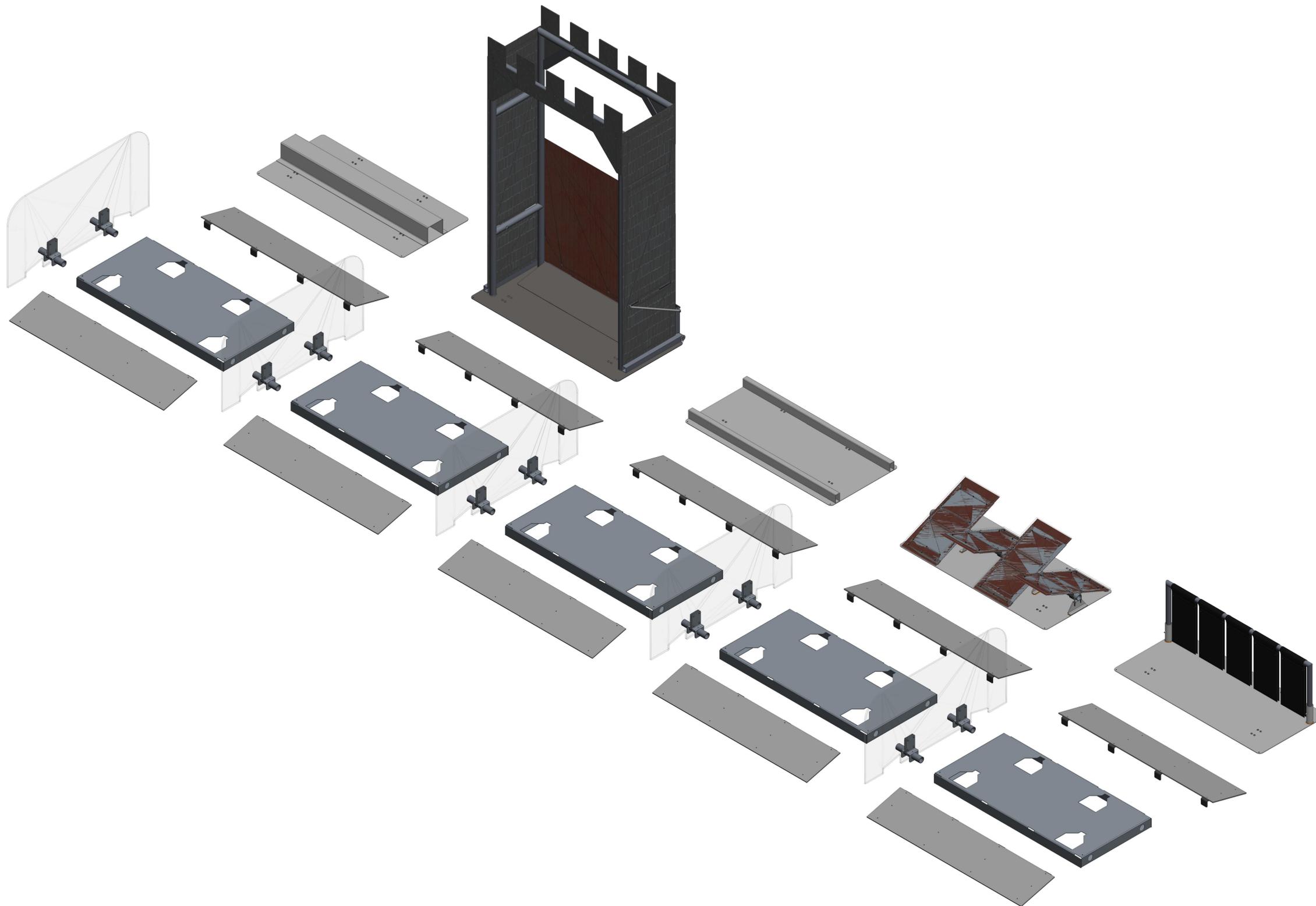
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MODEL NAME: GE-16149
TITLE: Outer Works 2



		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small>	
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNER'S WRITTEN PERMISSION.</small>		SCALE 5:64	SHEET 2 OF 5
TITLE Outer Works 2		PROJECT	ISSUE
MODEL NAME GE-16149			
DO NOT SCALE			

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MODEL NAME: GE-16149 TITLE: Outer Works 2

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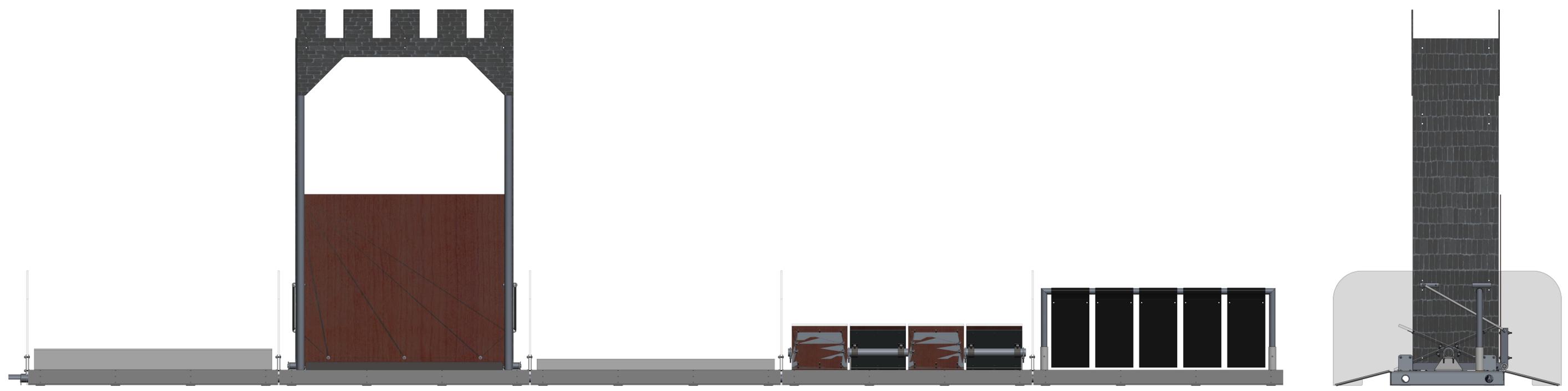
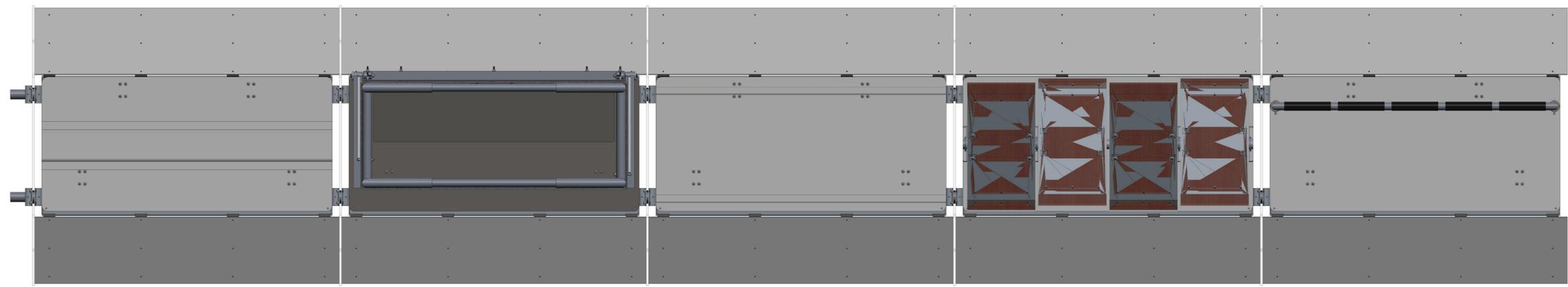
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NOTE: Defense shown are placed in the model to show relationships and are not necessarily placed according to gameplay criteria.

	DRAWN BY	DATE
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	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small>	
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNER'S WRITTEN PERMISSION.</small>		SCALE 7:64 SHEET 3 OF 5
TITLE Outer Works 2		ISSUE
PROJECT GE-16149		ISSUE

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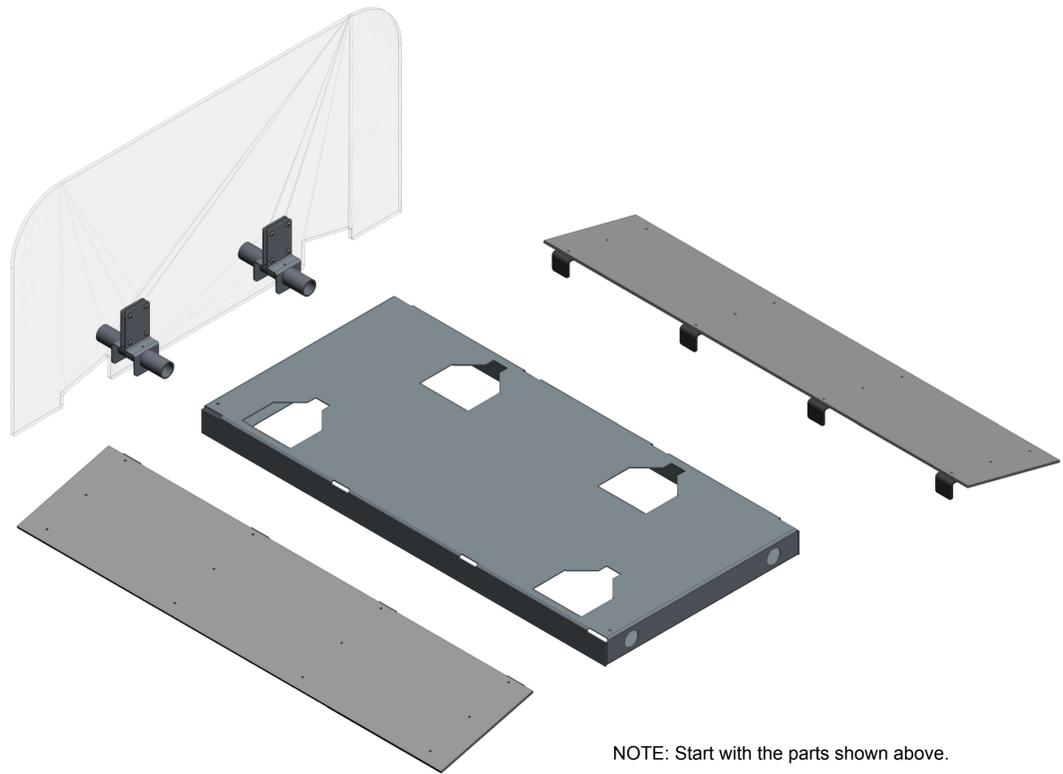
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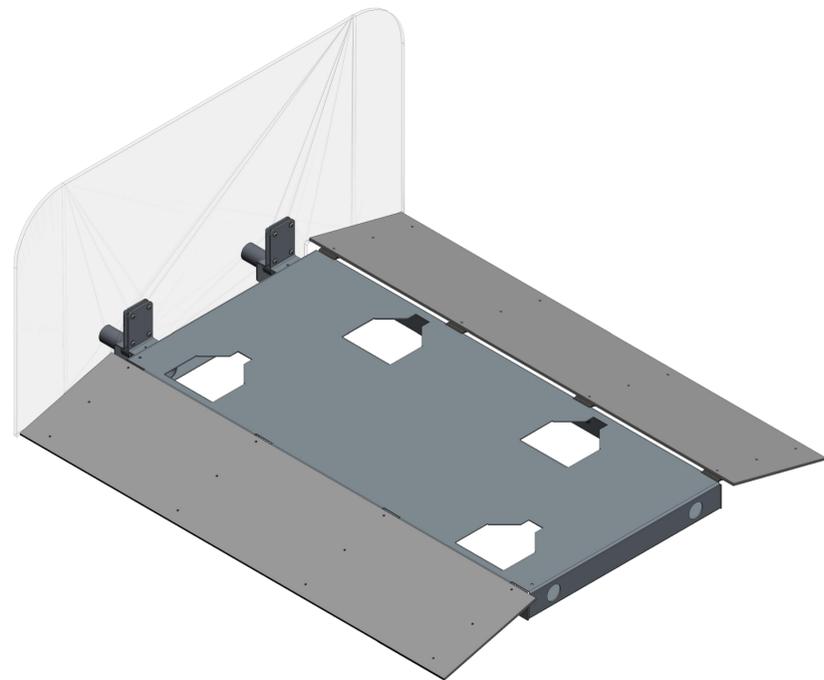
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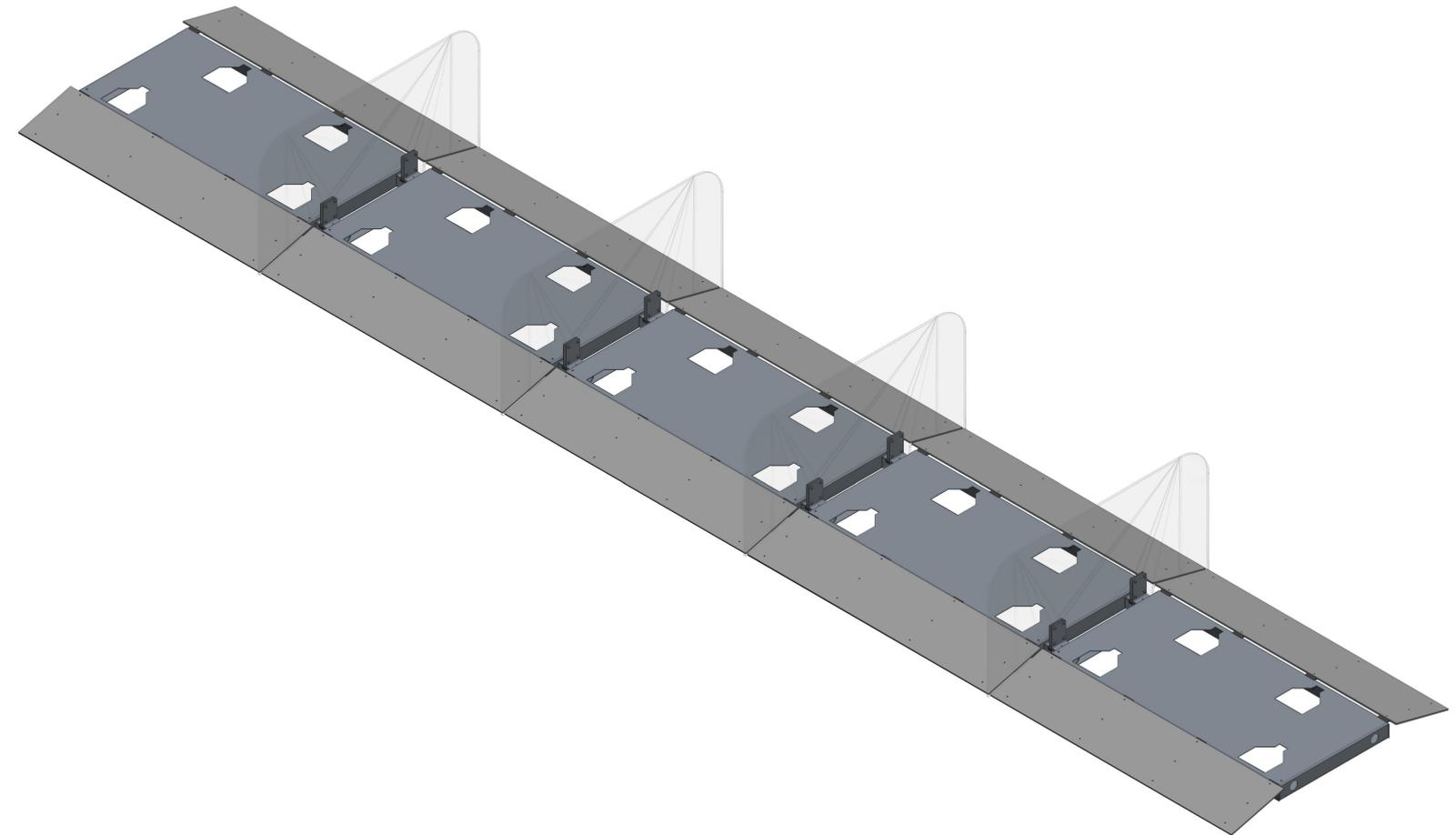
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NOTE: Start with the parts shown above.



Slide the ramps into the receiver slots on the sides of the Platform. Then slide the pegs of the Defense Divider into the receiver holes in the Defense Platform.



NOTE: Repeat the last step until the assembly looks like this.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1 DO NOT SCALE</p>	<p>FIRST</p> <p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>	DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
	<p>TITLE: Outer Works 2</p>		SCALE 1:8
<p>PROJECT</p>		MODEL NAME	ISSUE
		GE-16149	

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MODEL NAME: GE-16149
TITLE: Outer Works 2

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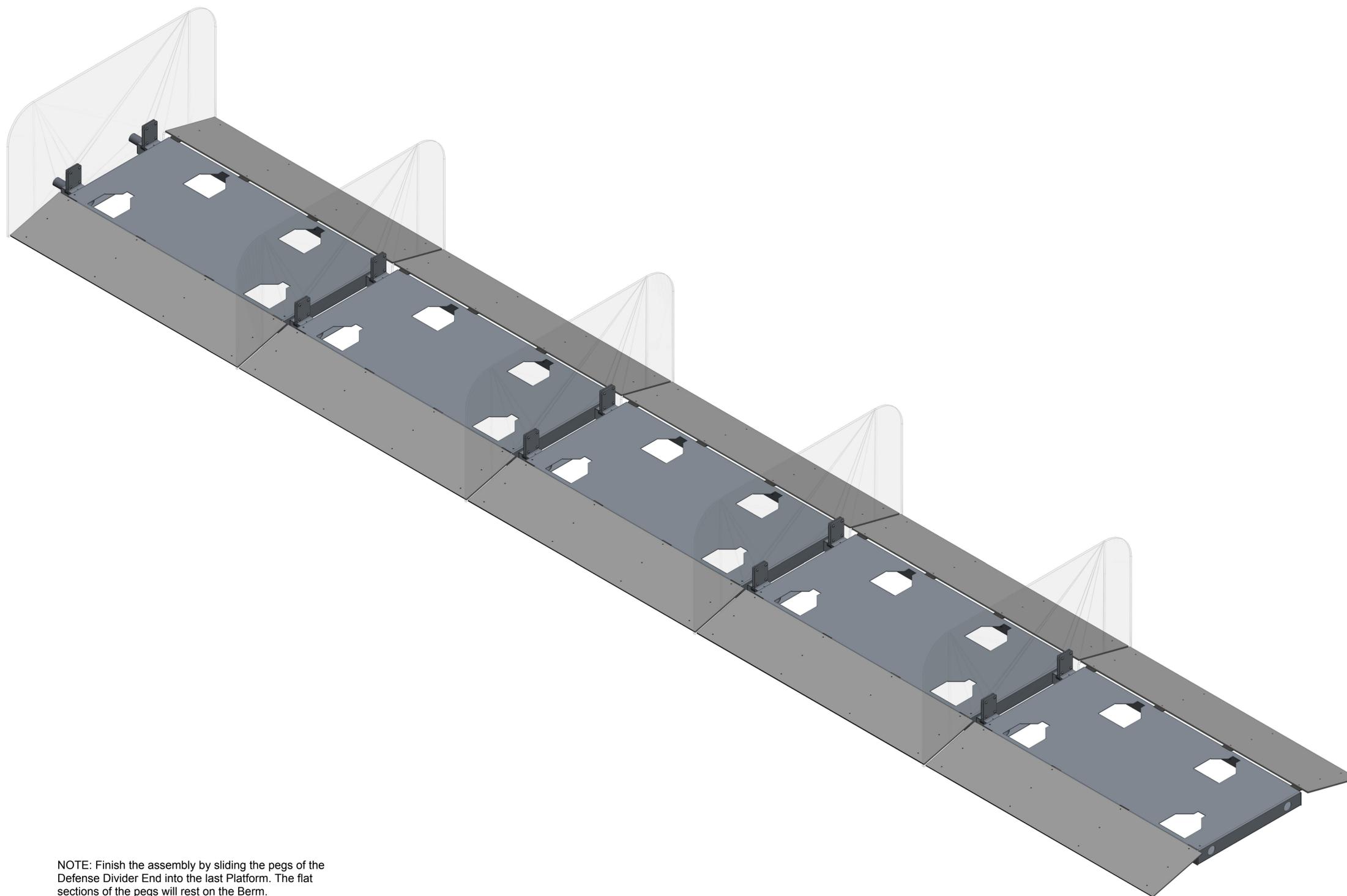
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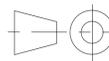
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NOTE: Finish the assembly by sliding the pegs of the Defense Divider End into the last Platform. The flat sections of the pegs will rest on the Berm.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	DATE: _____ DATE: _____ DATE: _____	
	TITLE: Outer Works 2		SCALE 7:64 SHEET 5 OF 5	
	PROJECT: _____	MODEL NAME: GE-16149	ISSUE: _____	

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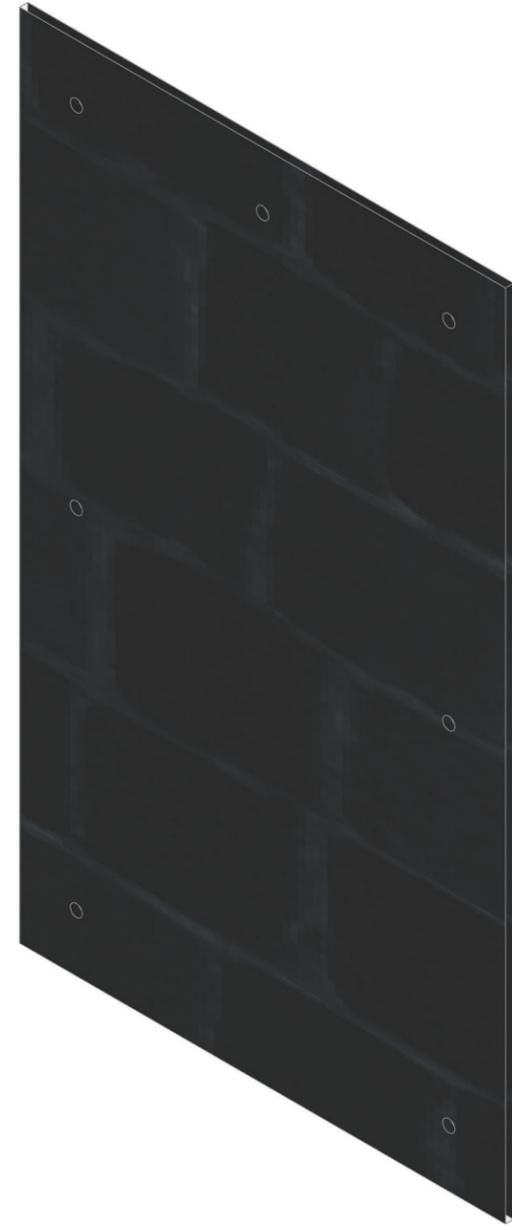
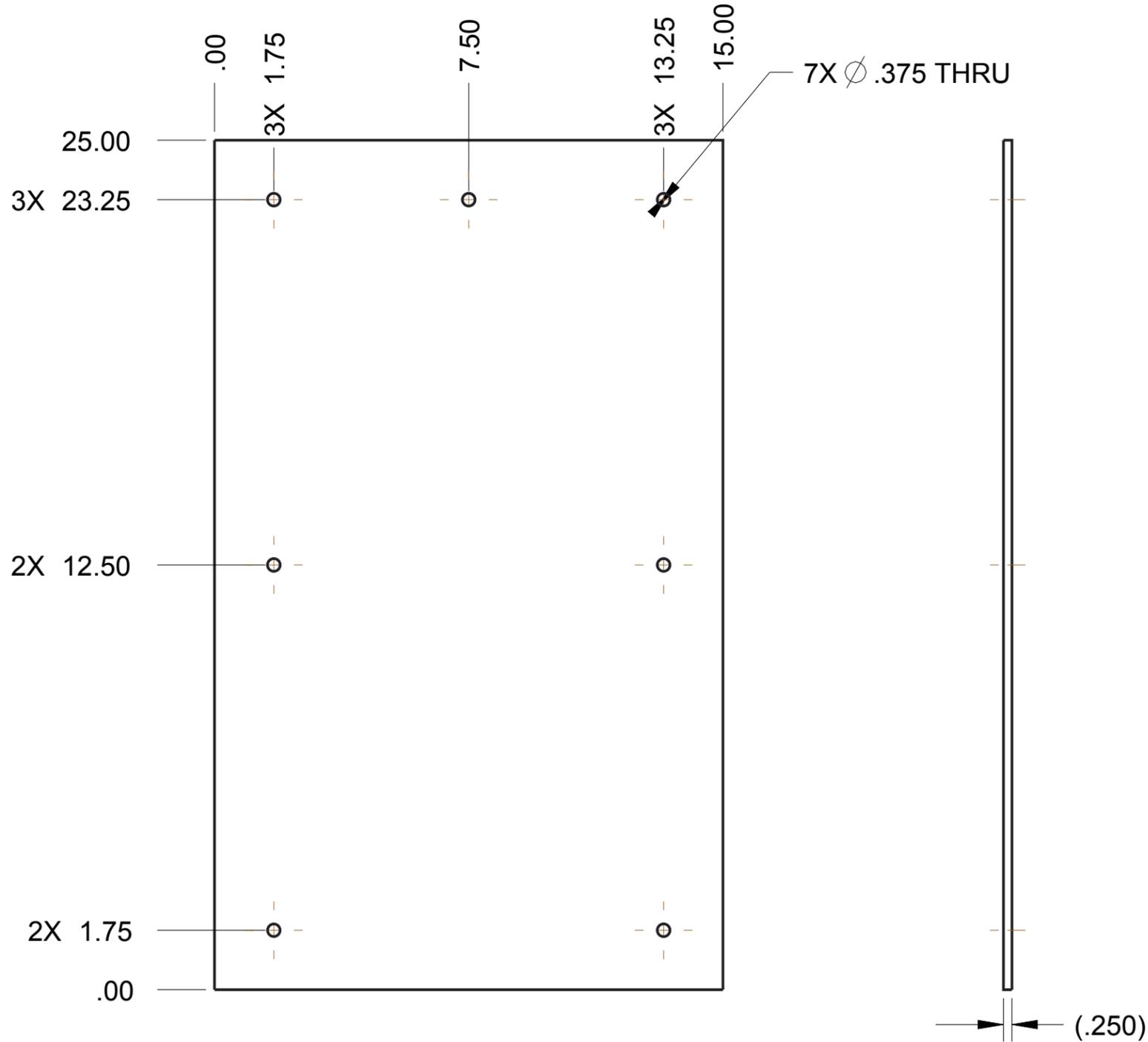
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MODEL NAME
GE-16152

TITLE
SIDE PLASTIC, SALLY PORT



NOTE

Material: Clear Polycarbonate, .25" Thick

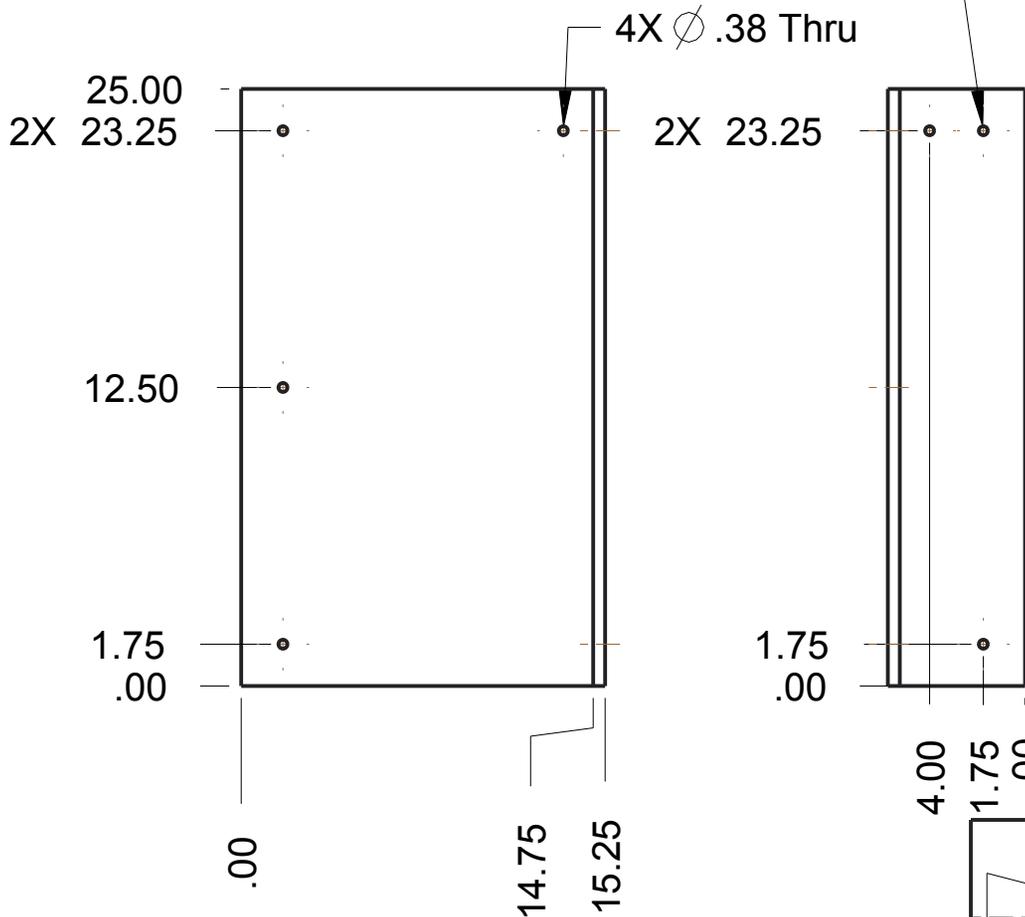
Scale: 1:4

Print one side, Block Pattern

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE SIDE PLASTIC, SALLY PORT	
PROJECT	MODEL NAME GE-16152	ISSUE
DO NOT SCALE		

MODEL NAME
GE-16153

TITLE
OWD SIDE POLY, BENT



Note:

Material: Clear Polycarbonate,
.25 " Thick

Scale 1:8

Qty: 1

Print to look like stone

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XX +/- 0.1 XXX +/- 0.01 X,XXX +/- 0.001 ANG +/- .1			
TITLE OWD SIDE POLY, BENT			
PROJECT		MODEL NAME GE-16153	ISSUE
DO NOT SCALE			

MODEL NAME
GE-16154

TITLE

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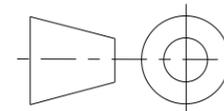


Ø .50

25.50

NOTES:

- 1. MATERIAL: .5" DIAMETER 1018 STEEL ROD
- 2. REMOVE ALL BURRS AND SHARP EDGES.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:2	SHEET 1 OF 1

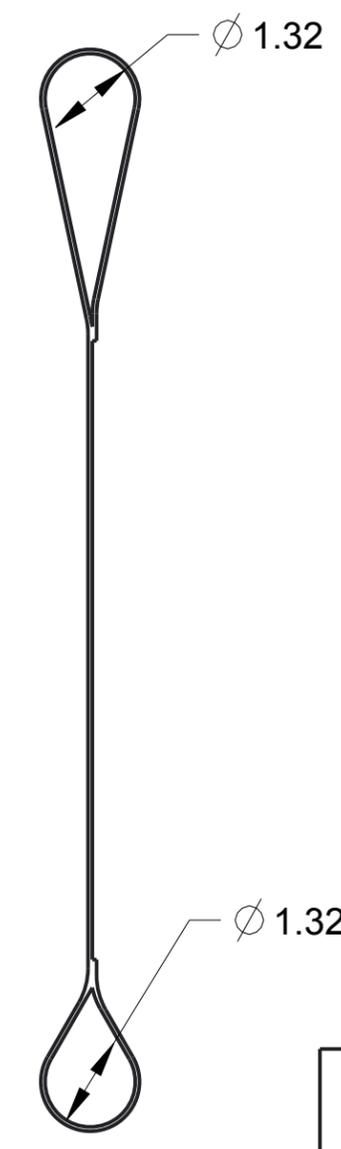
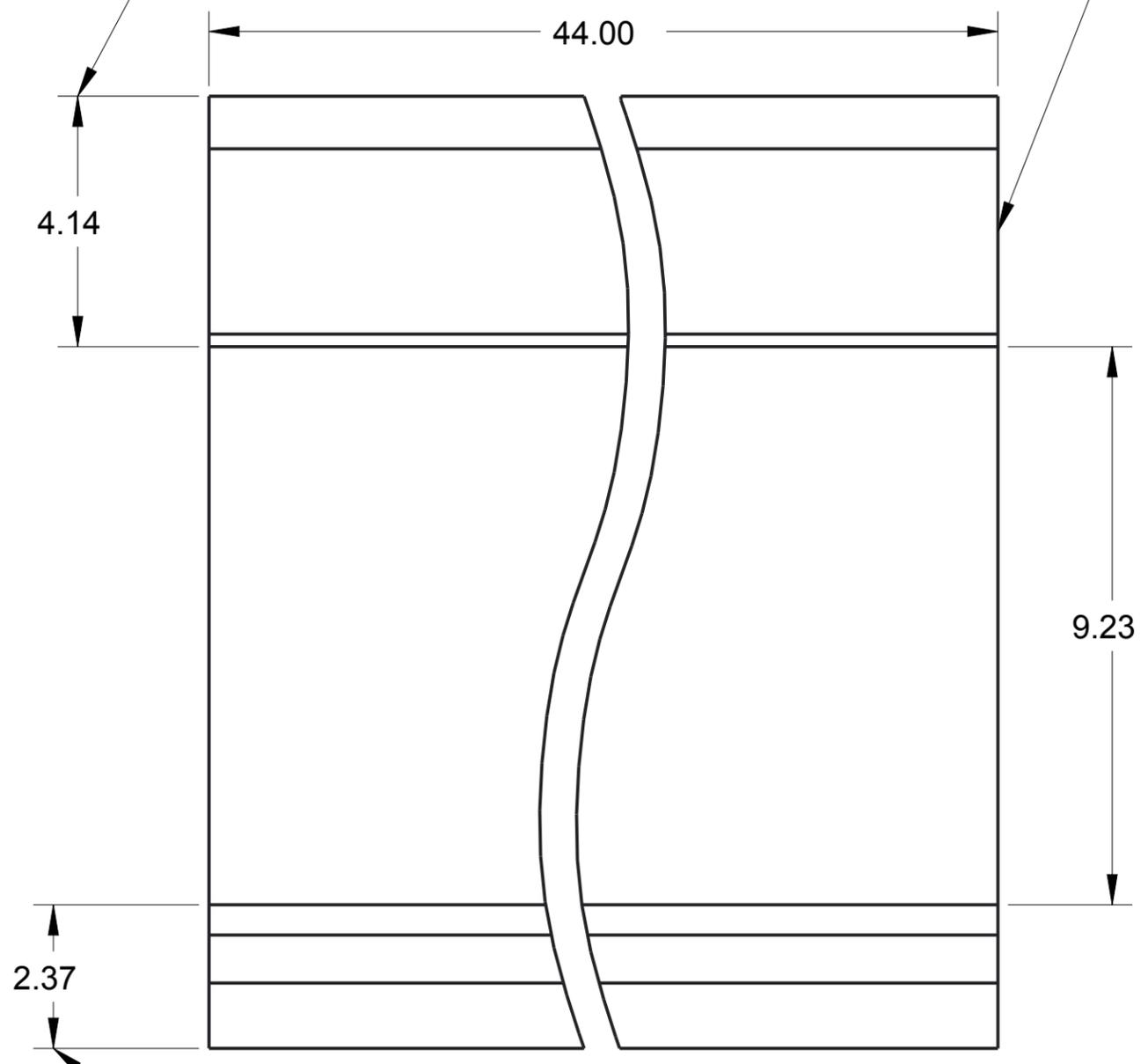
TITLE HINGE PIN		
PROJECT	MODEL NAME GE-16154	ISSUE

MODEL NAME
GE-16155

TITLE
Flap, Low Bar

NOTE: When flat, this dimension should be 4.25"

NOTE: Hem each edge, 1/2"



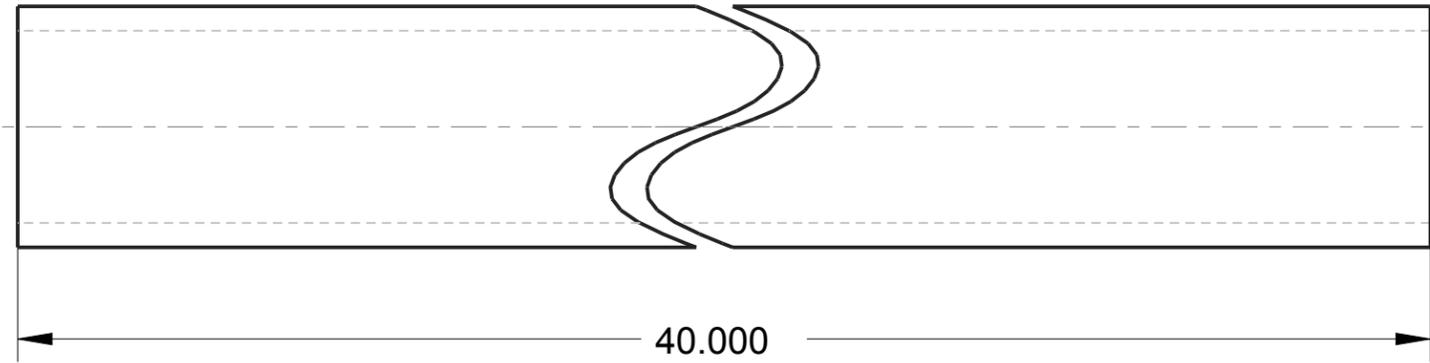
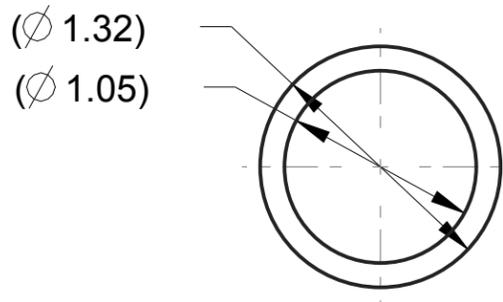
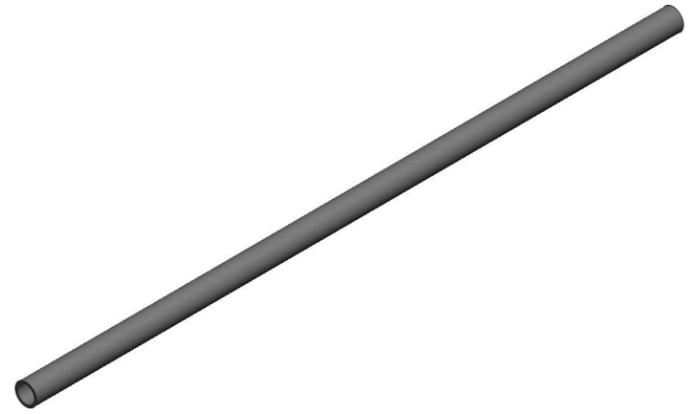
NOTE:
Material: 12 oz Cotton Duck Canvas, Black

NOTE: When flat, this dimension should be 2.50"

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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Flap, Low Bar		
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	PROJECT	MODEL NAME GE-16155
DO NOT SCALE		ISSUE

MODEL NAME
GE-16156

TITLE
LB Weight



NOTE

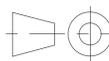
Material: 1" Schedule 40 Aluminum Pipe
Scale: 1:1

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE LB Weight	
	PROJECT	MODEL NAME GE-16156
DO NOT SCALE	ISSUE	

MODEL NAME: GE-16157
 TITLE: Portcullis, Upper Assembly



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16158	1	portcullis base assembly	See Drawing
2	GE-16195	1	Portcullis, Upper Assembly	See Drawing
3	HW-00087	4	nut, nylock 1/4-20	Hardware
4	HW-00089	4	1/4"-20 Machine Screw, 2.5" Long	Hardware

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE		DRAWN BY	DATE	
	CHECKED BY	DATE		
	APPROVED BY	DATE		
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TITLE Portcullis, Upper Assembly		PROJECT	MODEL NAME GE-16157	ISSUE

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1 2 3 4 5 6 7 8

MODEL NAME: GE-16157
 TITLE: Portcullis, Upper Assembly



 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small> DO NOT SCALE	<small>DRAWN BY</small> <small>DATE</small>	<small>CHECKED BY</small> <small>DATE</small>	
	<small>APPROVED BY</small> <small>DATE</small>	<small>SCALE 3:16</small>	<small>SHEET 2 OF 4</small>
	<small>TITLE</small> Portcullis, Upper Assembly		
	<small>PROJECT</small>	<small>MODEL NAME</small> GE-16157	<small>ISSUE</small>

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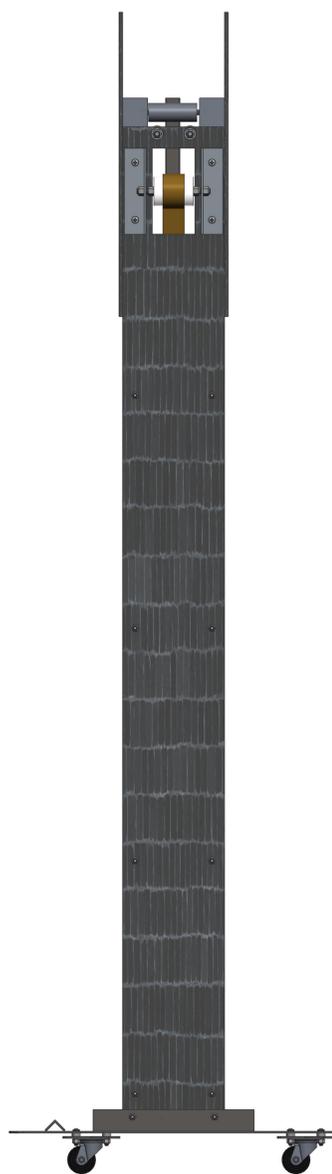
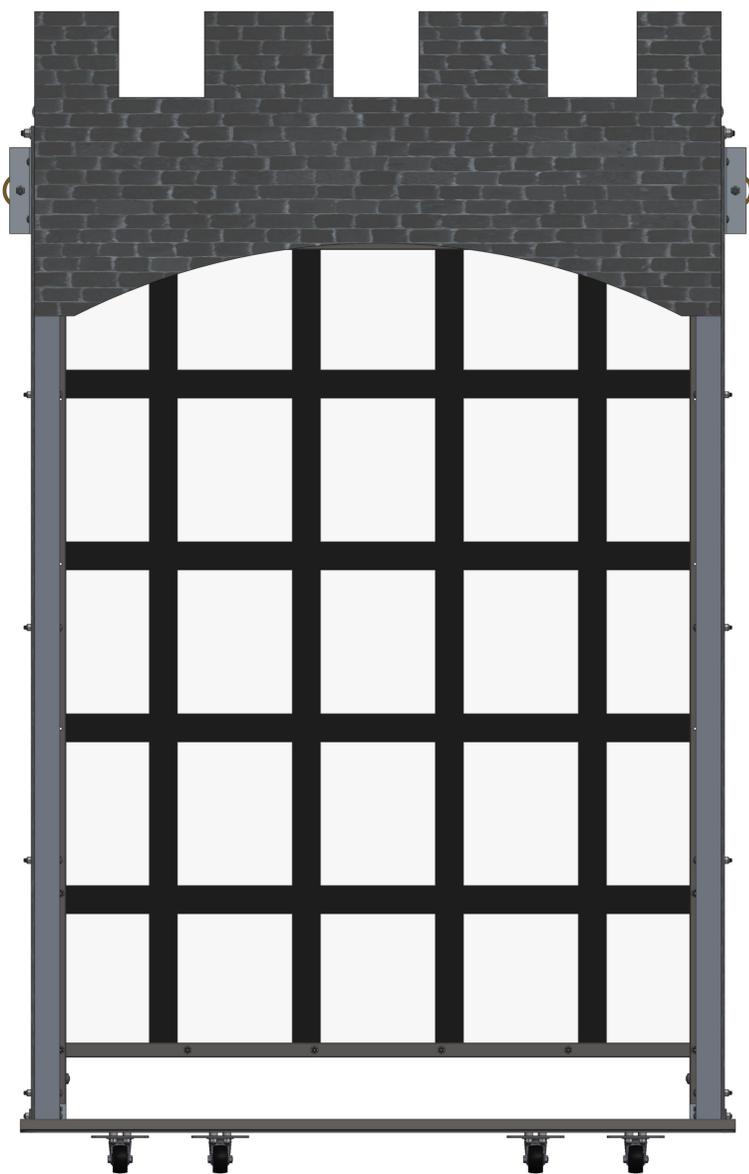
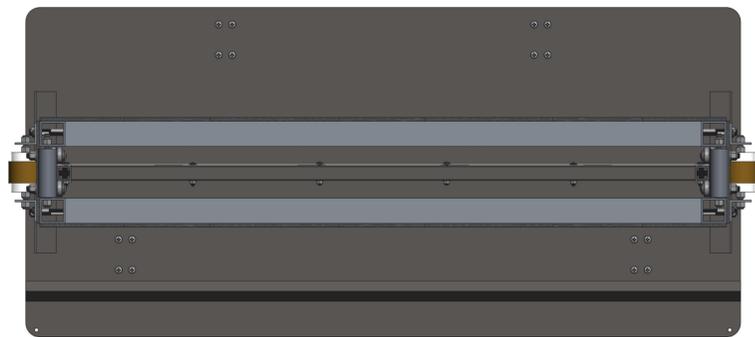
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MODEL NAME: GE-16157 TITLE: Portcullis, Upper Assembly



 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<p>TITLE: Portcullis, Upper Assembly</p>		PROJECT	MODEL NAME: GE-16157
		ISSUE	

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1 2 3 4 5 6 7 8

MODEL NAME
GE-16157

TITLE
Portcullis, Upper Assembly

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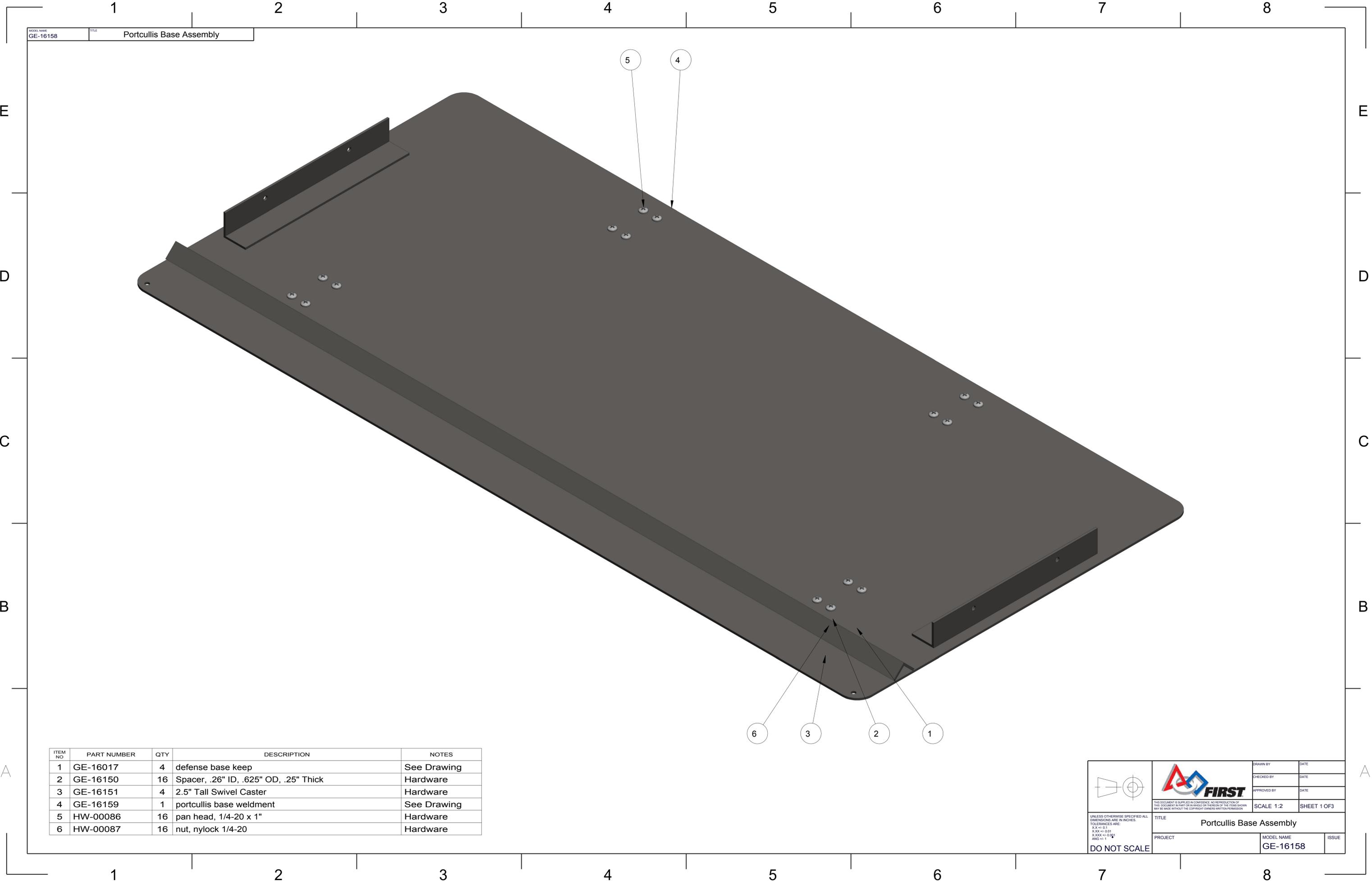
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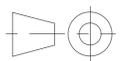
NTOE: Use 1/4"-20 Hardware to
secure the Portcullis Upper
Assembly to the Portcullis Base
- 4 Places.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>	TITLE Portcullis, Upper Assembly	
PROJECT DO NOT SCALE	MODEL NAME GE-16157	SHEET 4 OF 4 ISSUE

1 2 3 4 5 6 7 8



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
3	GE-16151	4	2.5" Tall Swivel Caster	Hardware
4	GE-16159	1	portcullis base weldment	See Drawing
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1</small> DO NOT SCALE		<small>DRAWN BY</small> <small>CHECKED BY</small> <small>APPROVED BY</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small>	
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	TITLE Portcullis Base Assembly		<small>SCALE</small> 1:2	<small>SHEET</small> 1 OF 3
	<small>PROJECT</small>	<small>MODEL NAME</small> GE-16158	<small>ISSUE</small>	

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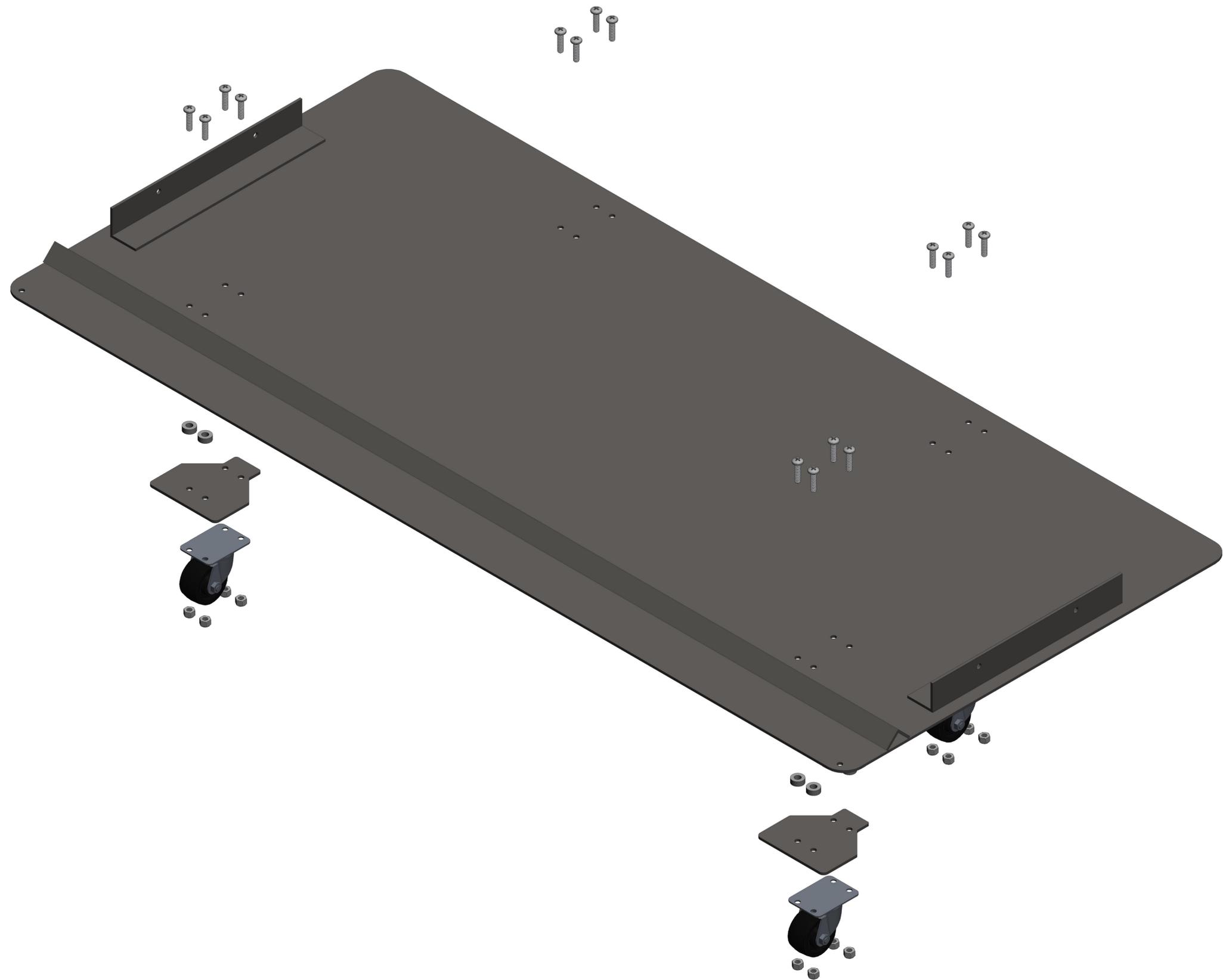
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MODEL NAME
GE-16158

TITLE
Portcullis Base Assembly



 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	<p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>	<p>DRAWN BY</p>	<p>DATE</p>	
	<p>CHECKED BY</p>	<p>DATE</p>		
	<p>APPROVED BY</p>	<p>DATE</p>		
	<p>SCALE 7:16</p>	<p>SHEET 2 OF 3</p>		
<p>TITLE Portcullis Base Assembly</p>		<p>PROJECT</p>	<p>MODEL NAME GE-16158</p>	<p>ISSUE</p>

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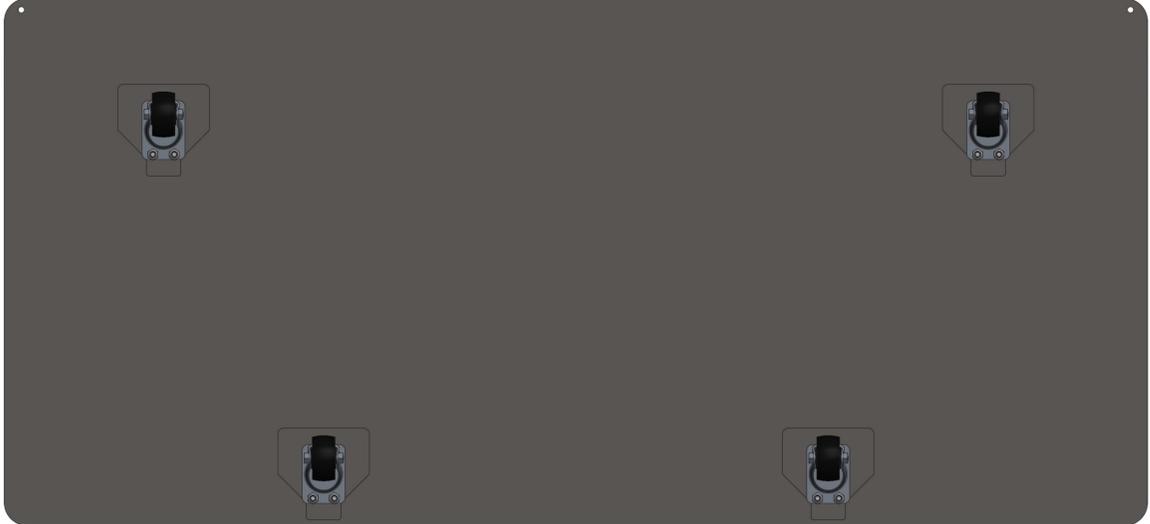
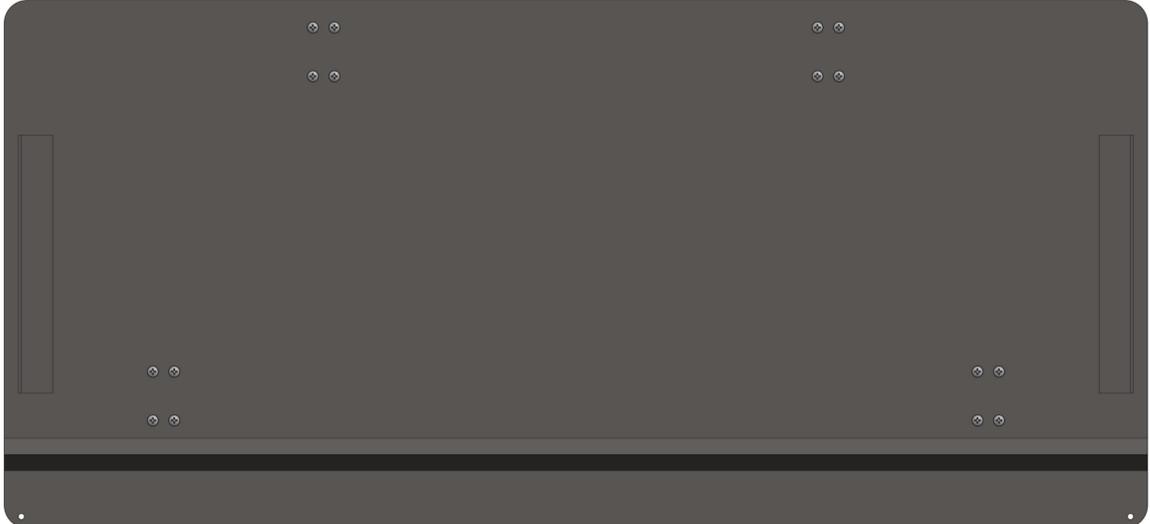
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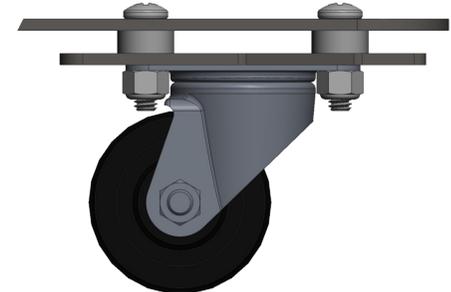
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SEE DETAIL A



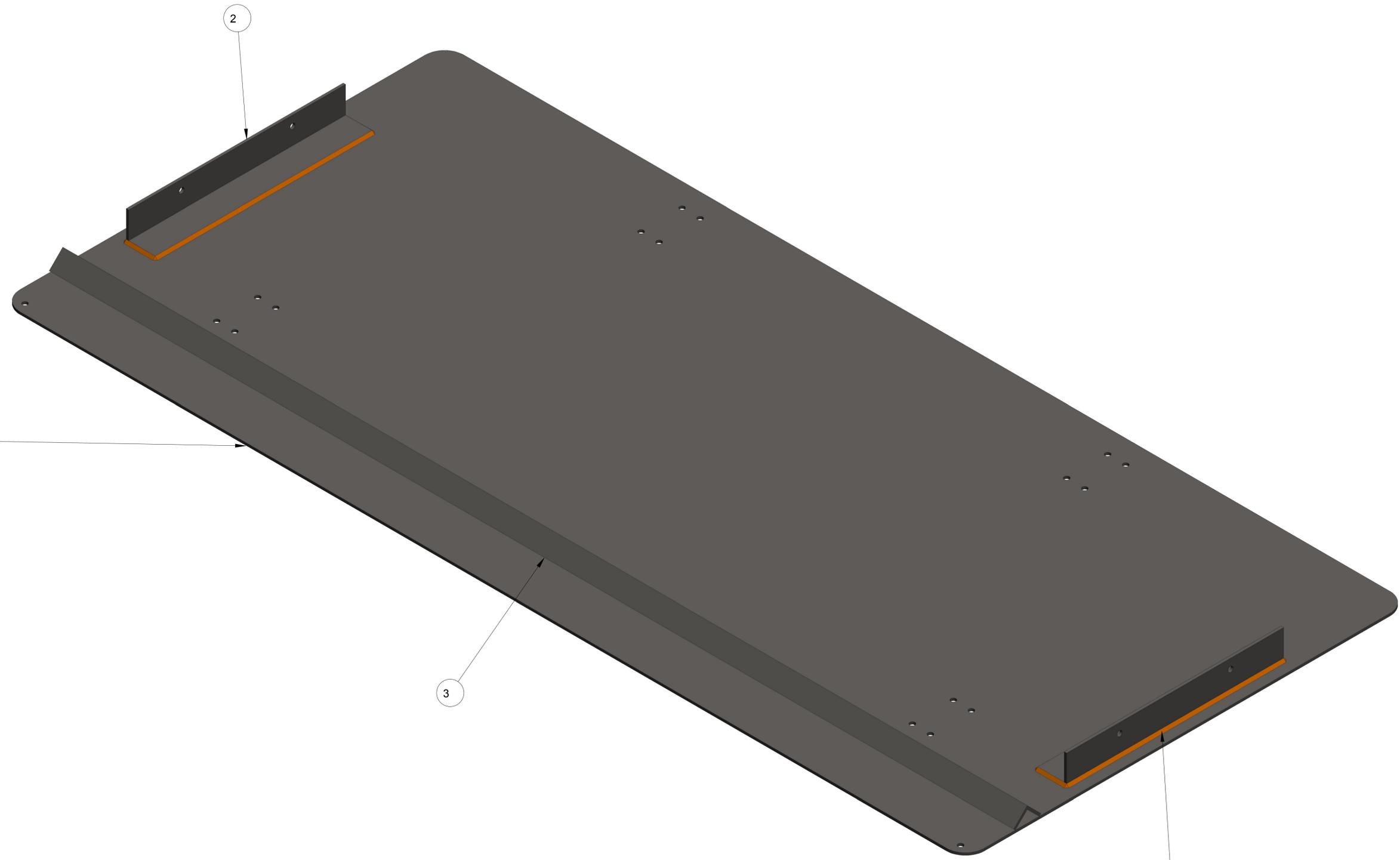
DETAIL A
SCALE 1:1

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TITLE: Portcullis Base Assembly		SCALE 1:4 SHEET 3 OF 3	
PROJECT:		MODEL NAME: GE-16158	ISSUE:

DO NOT SCALE

MODEL NAME: GE-16159
 TITLE: Portcullis Base

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	See Drawing for Defense Holder Base
2	GE-16159-01	2	angle	1.5" Steel Angle, .125" Thick
3	GE-16159-02	1	angle 2	1.5" Steel Angle, .125" Wall



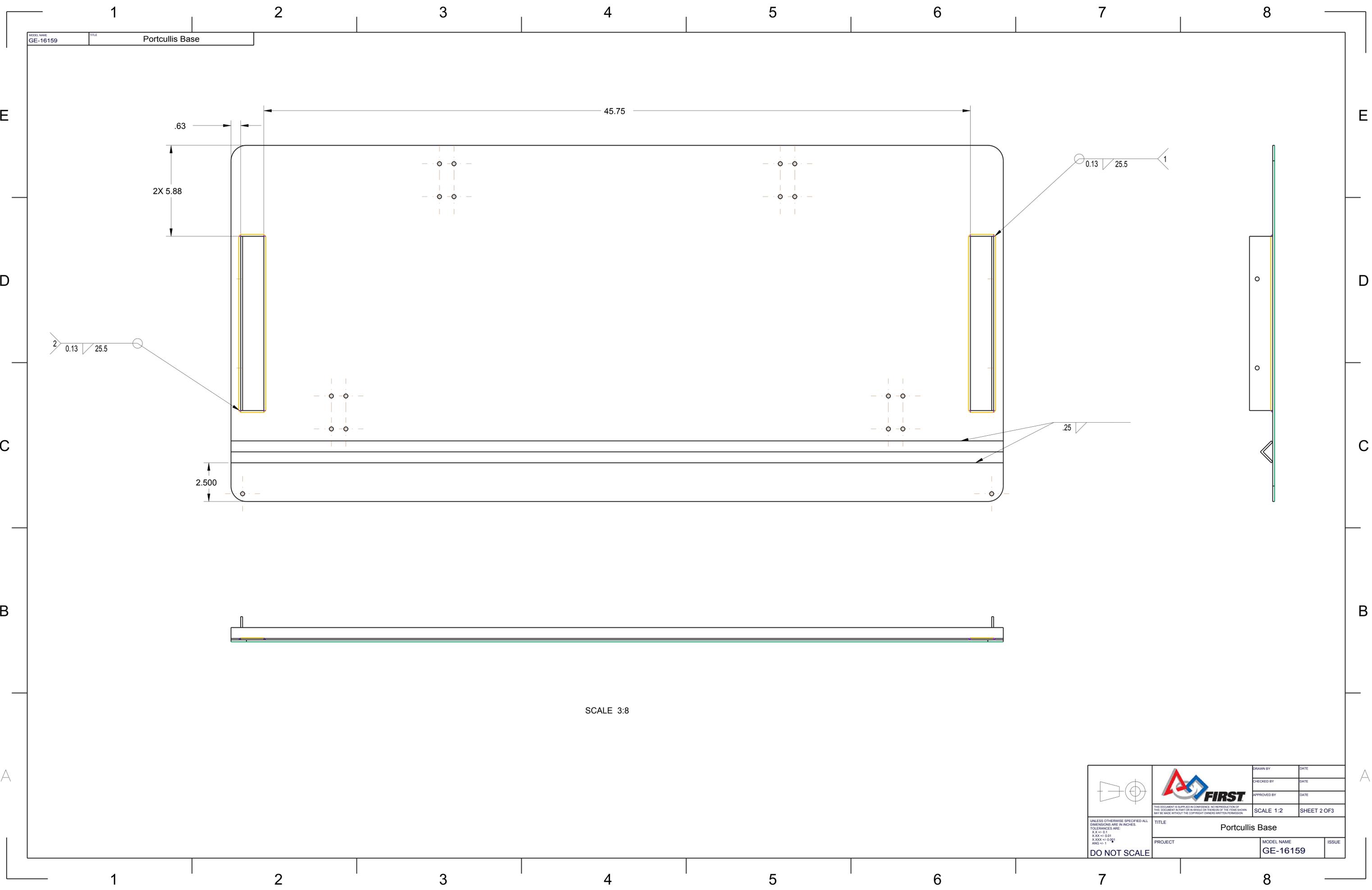
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TITLE: Portcullis Base		SCALE 1:2	SHEET 1 OF 3
PROJECT:		MODEL NAME: GE-16159	ISSUE:
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 ANG ± .1</small>		DO NOT SCALE	

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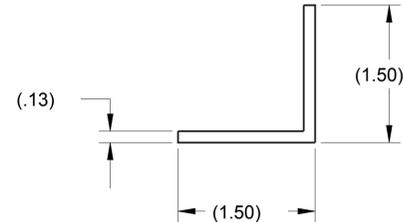
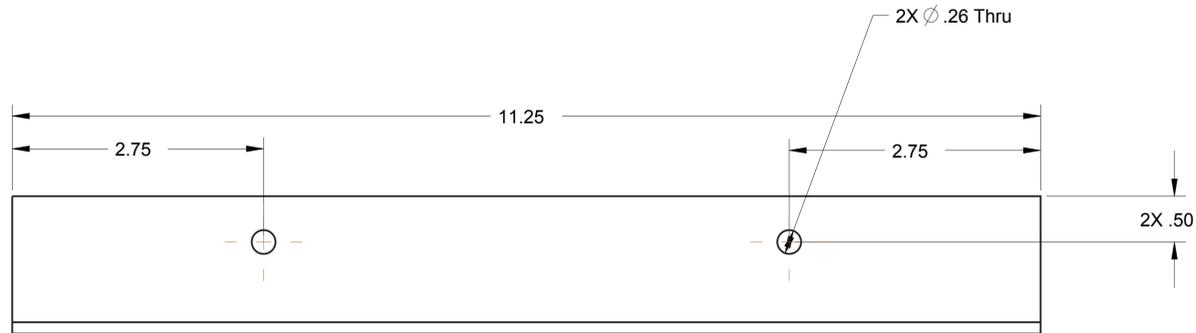


SCALE 3:8

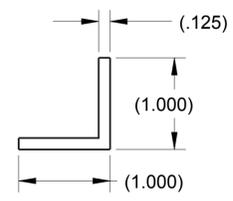
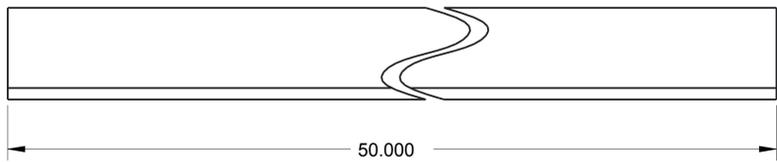
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TITLE	Portcullis Base	
PROJECT	MODEL NAME	ISSUE
DO NOT SCALE	GE-16159	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± .1

SCALE 1:2 SHEET 2 OF 3



NOTE
 Part: PORTBRACKET
 Material: 1.5" x 1.5" Steel Angle, .125" Thick
 Scale: 1:1
 Qty: 2



NOTE
 Part: PORTBRACE
 Material: 1" Steel Angle, .125" Wall
 Qty: 1
 Scale: 1:1

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	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 X.XXXX ± 0.001 ANG ± .1</small>	TITLE: Portcullis Base	
	PROJECT	ISSUE
	MODEL NAME: GE-16159	
DO NOT SCALE	SCALE 1:2	SHEET 3 OF 3

MODEL NAME
GE-16167

TITLE
P DOOR PLASTIC

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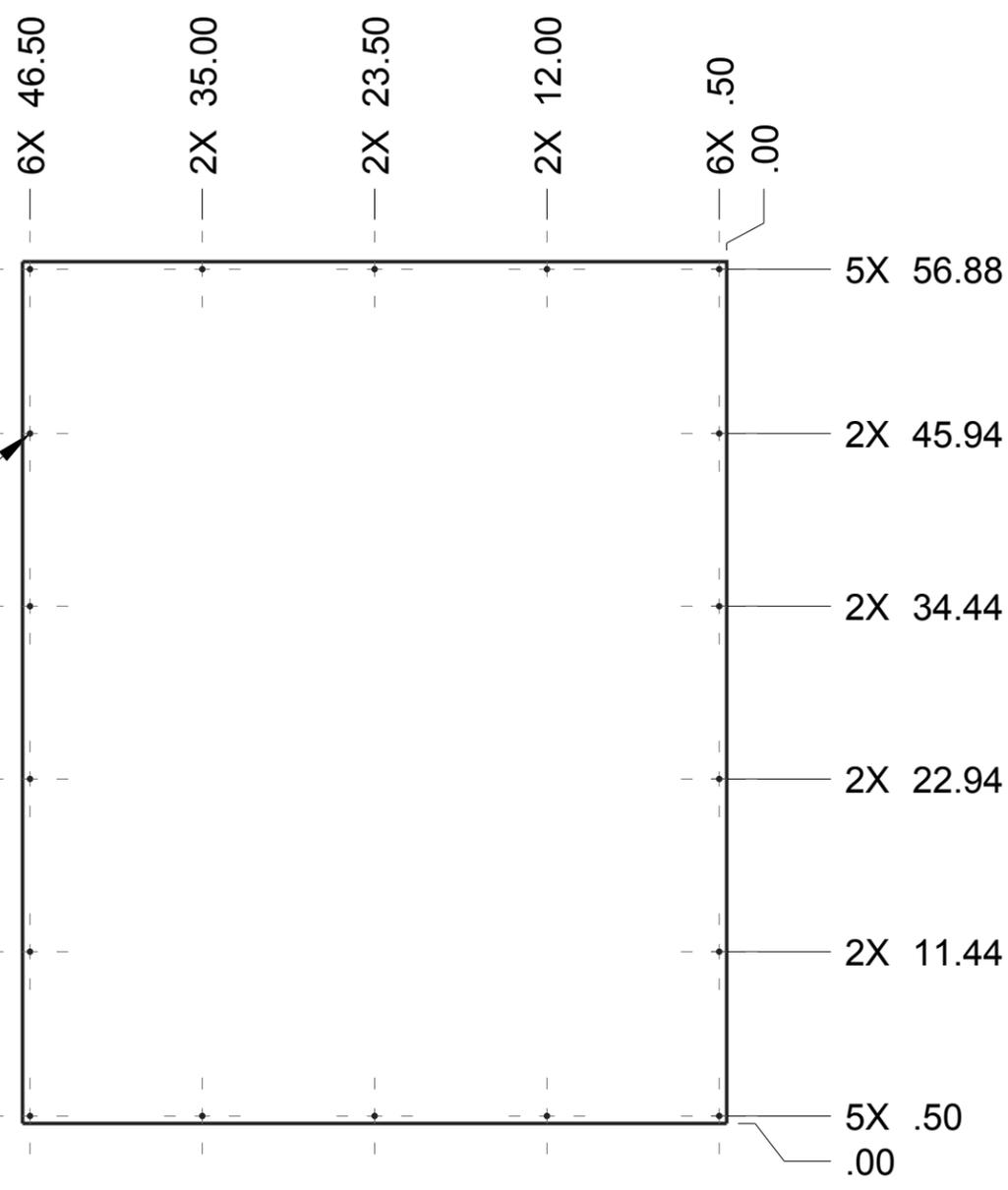
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Notes:
1. Material: 1/8" Clear Polycarbonate

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		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE P DOOR PLASTIC	
DO NOT SCALE		PROJECT	MODEL NAME GE-16167 ISSUE

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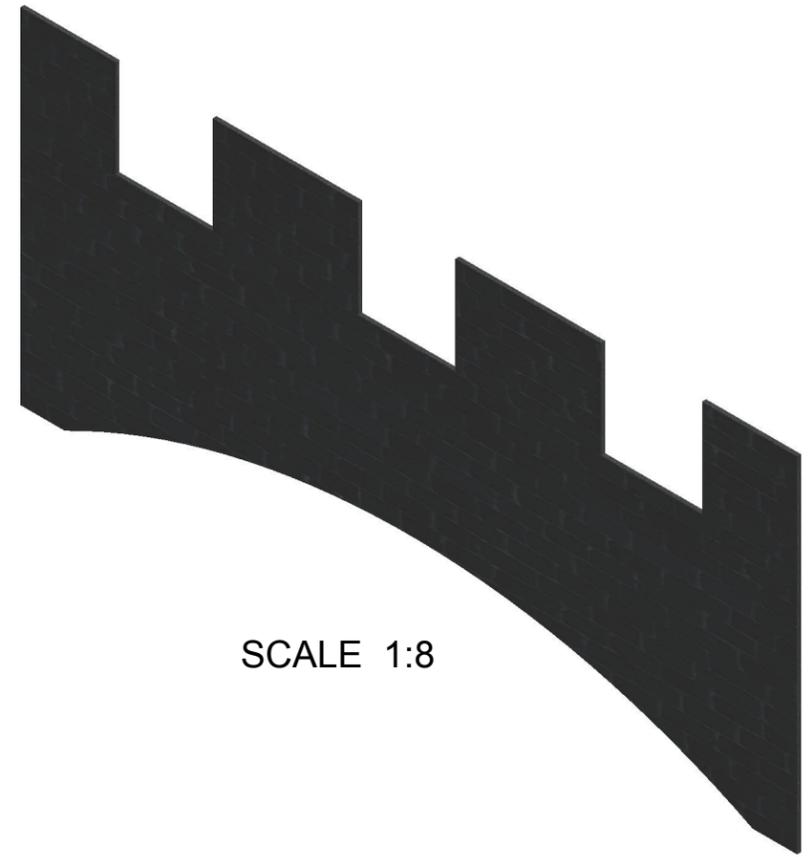
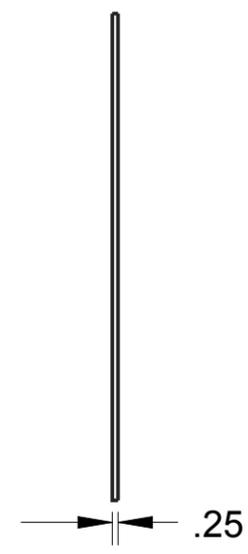
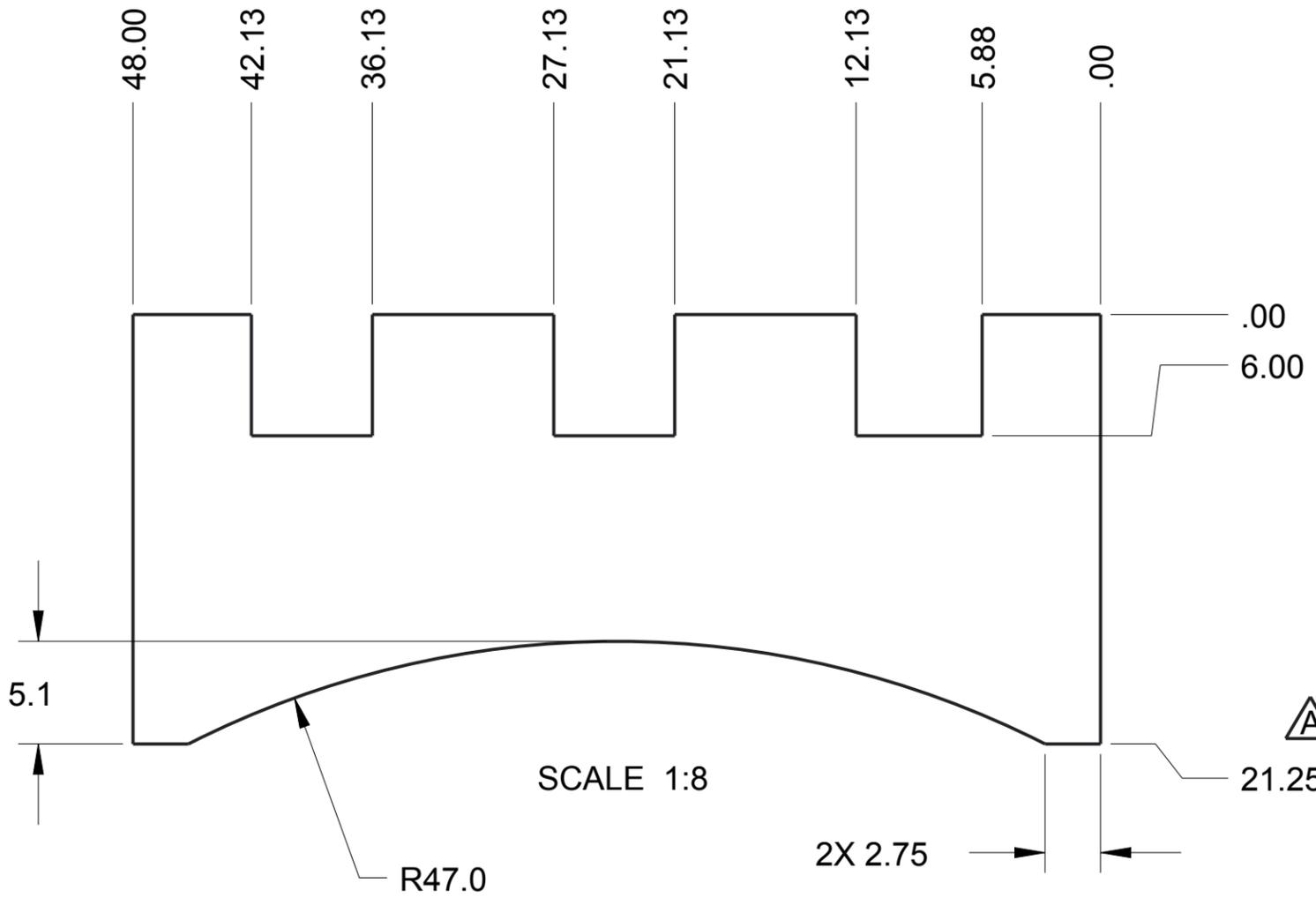
3

4

MODEL NAME
GE-16169

TITLE
Portcullis Facade

Rev	Zone	Description	Date	Initials
A	B-3	21.25 was 14.00	11/24/15	DAF



- Notes:
1. Material: 1/4" clear, polycarbonate.
 2. Print on one side to look like the stone of a castle.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Portcullis Facade		
PROJECT	MODEL NAME GE-16169	ISSUE

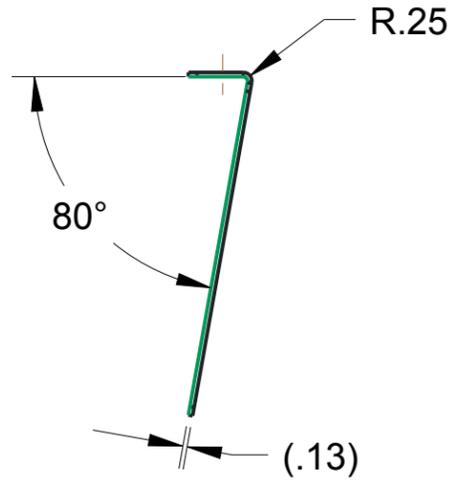
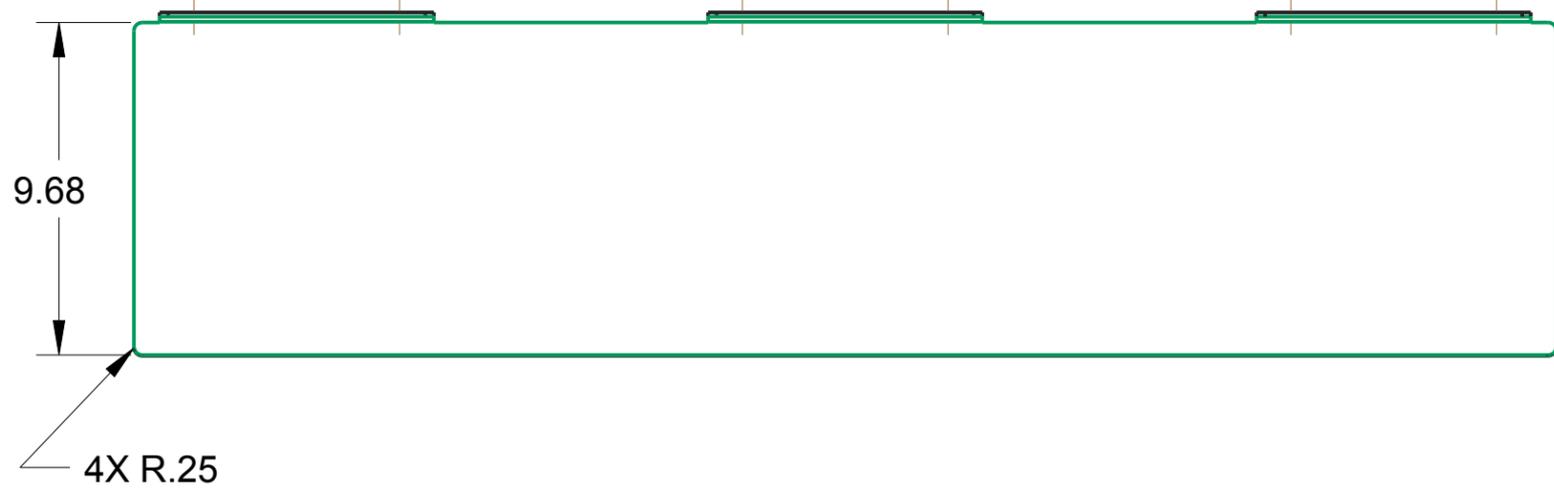
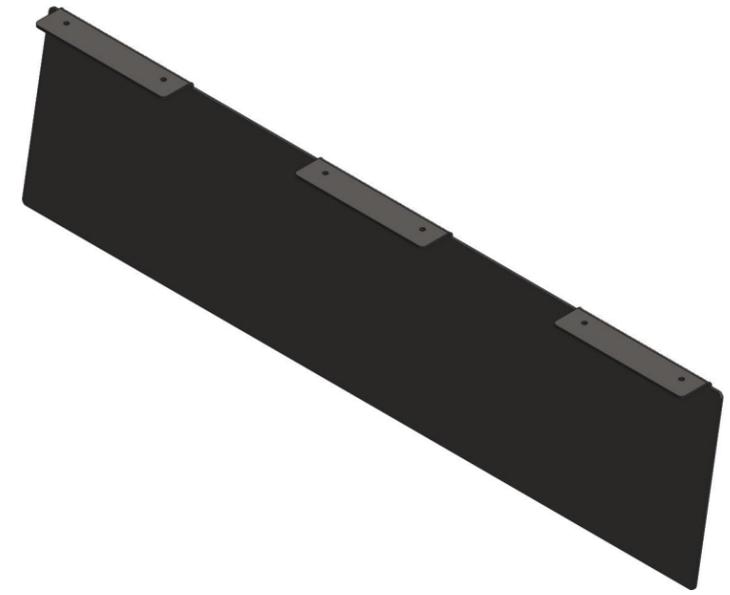
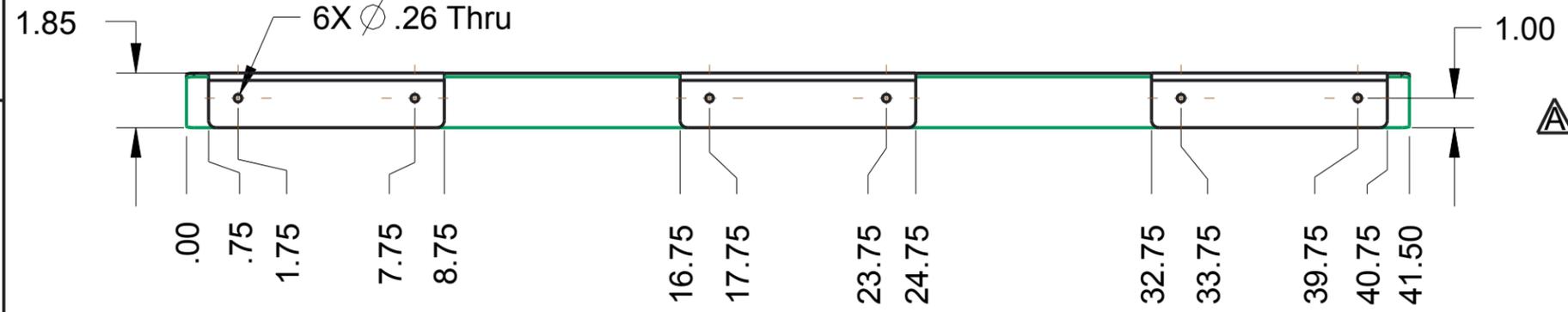
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

MODEL NAME
GE-16170

TITLE
Drawbridge Ramp

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	C3	Hole Location	NJS	1/19/16



NOTE

Material: Steel Sheet, .125"

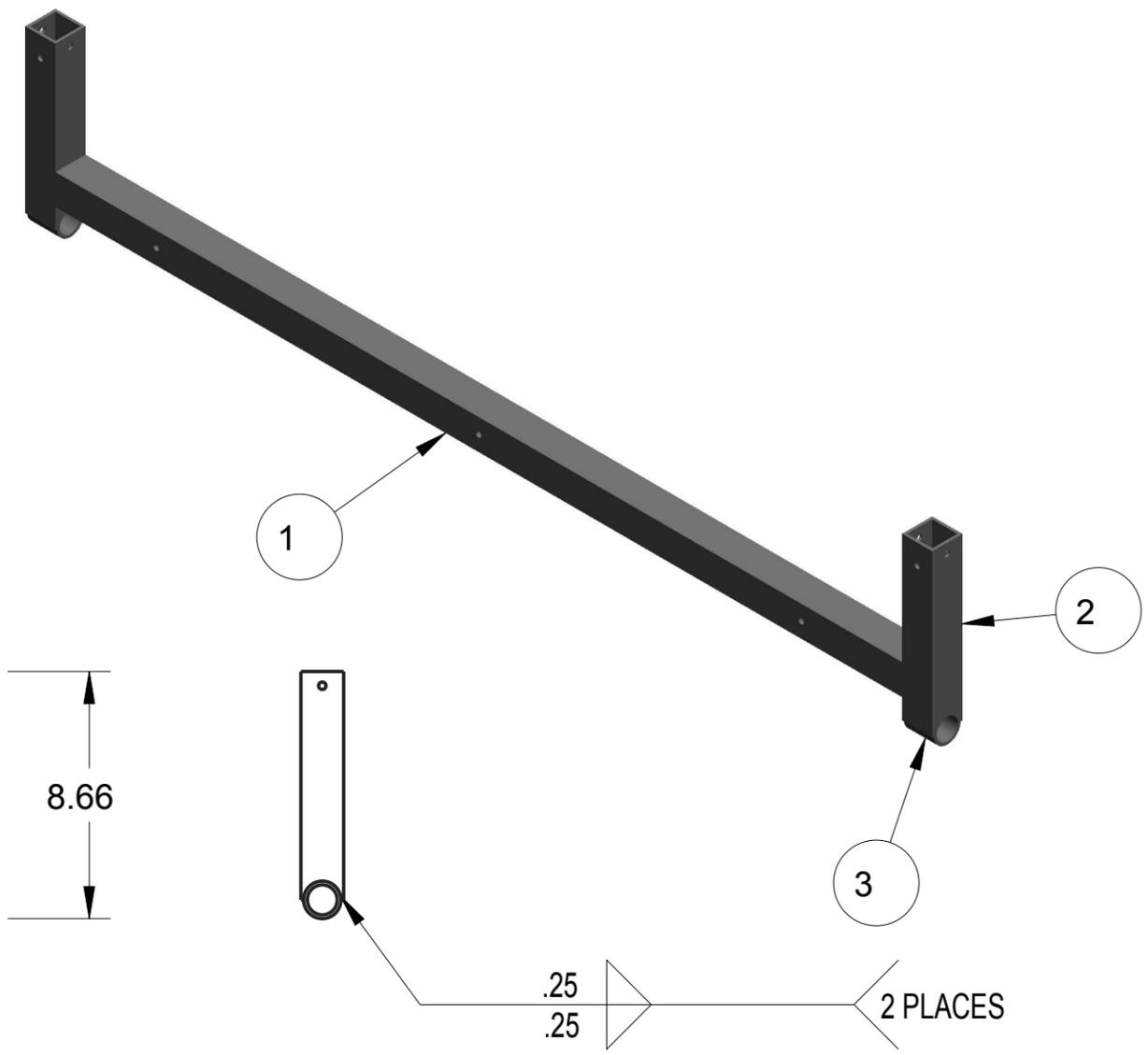
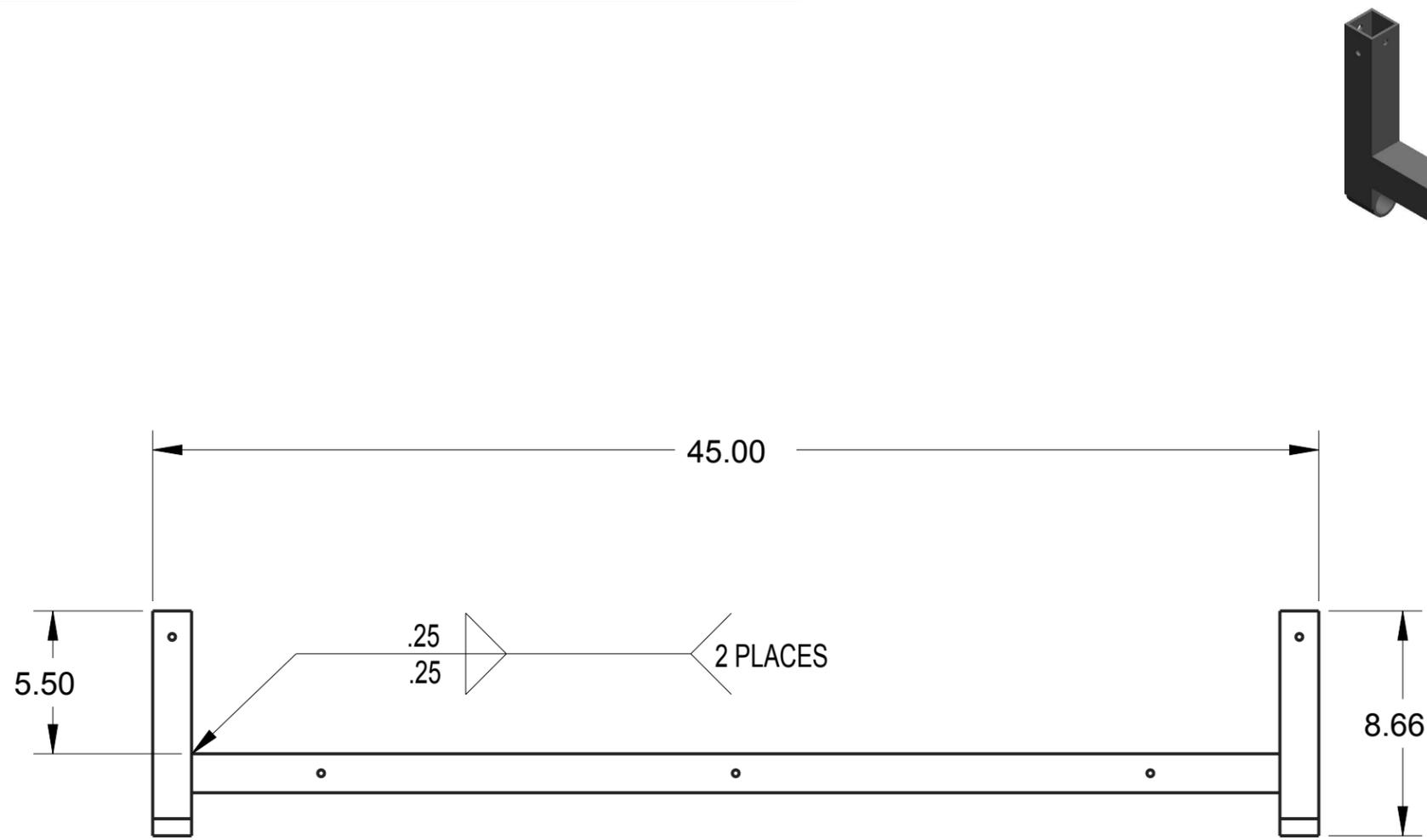
Scale: 3:16

Remove all burrs and sharp edges

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	APPROVED BY	DATE
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TITLE Drawbridge Ramp		
PROJECT		MODEL NAME GE-16170
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		ISSUE
DO NOT SCALE		

MODEL NAME
GE-16171

TITLE
DOOR FRAME, DB



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16171-01	1	HORIZONTAL	
2	GE-16171-02	2	VERTICAL	
3	GE-16171-03	2	PIVOT	

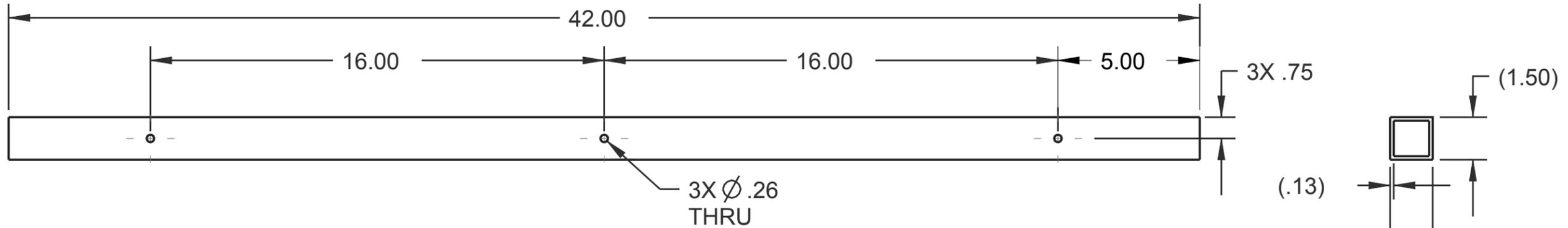
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TITLE DOOR FRAME, DB		
PROJECT		MODEL NAME GE-16171
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
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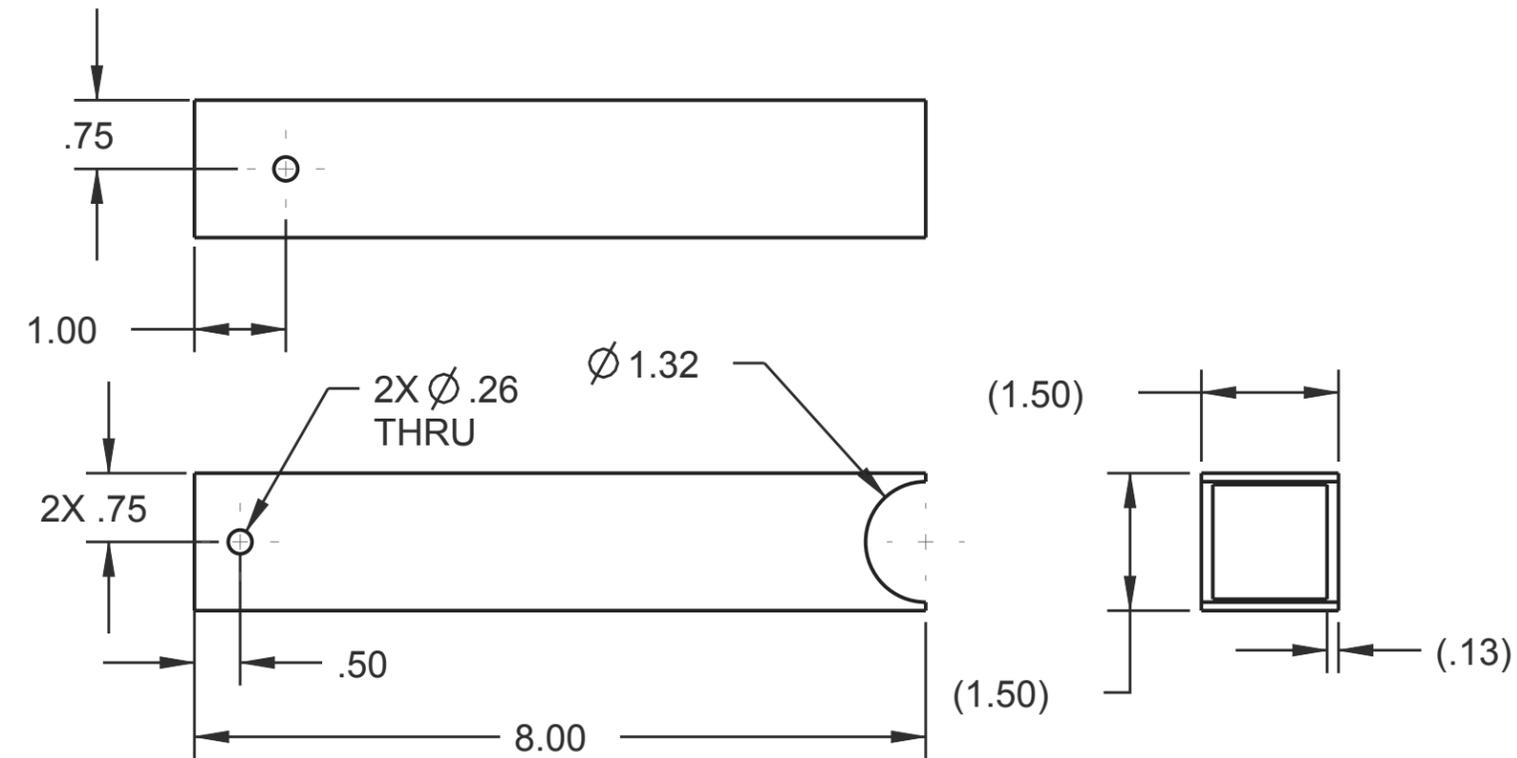
DO NOT SCALE

MODEL NAME
GE-16171

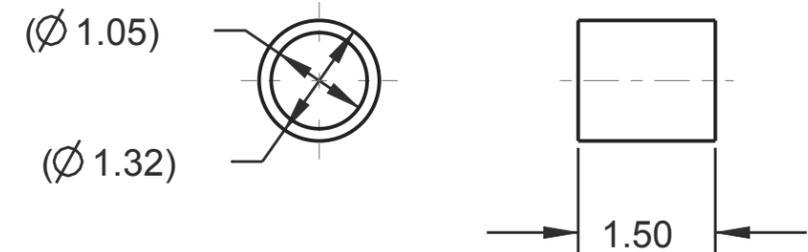
TITLE
DOOR FRAME, DB



PART: GE-16171-01
 MATERIAL: 1.5" X .125" SQUARE TUBING, 6063 ALUMINUM
 QTY: 1



PART: GE-16171-02
 MATERIAL: 1.5" X .125" SQUARE TUBING, 6063 ALUMINUM
 QTY: 2



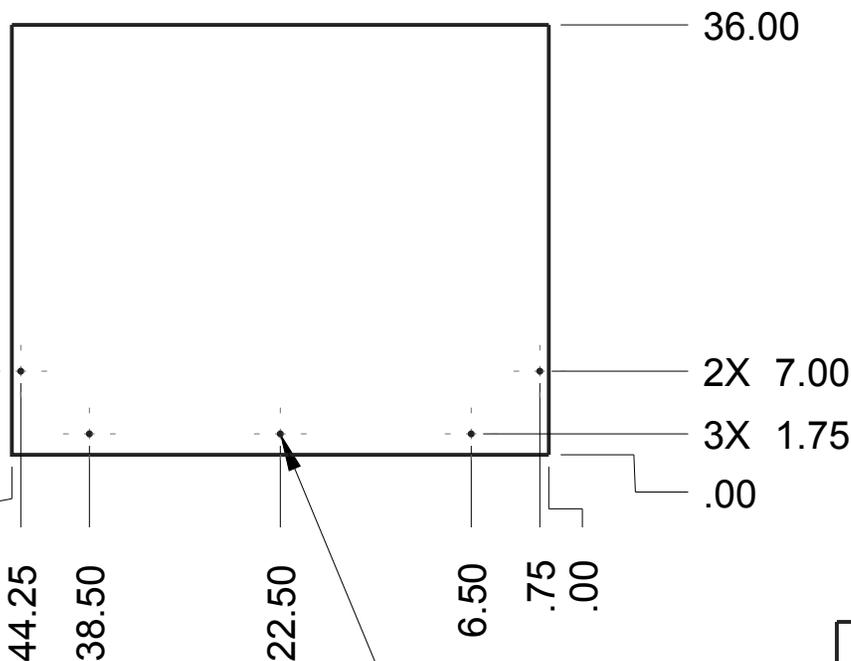
PART: GE-16171-03
 MATERIAL: 1" SCHEDULE 40 PIPE, 6061 ALUMINUM
 QTY: 2

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		CHECKED BY	DATE
		APPROVED BY	DATE
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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		TITLE DOOR FRAME, DB	
		PROJECT	MODEL NAME GE-16171
DO NOT SCALE			

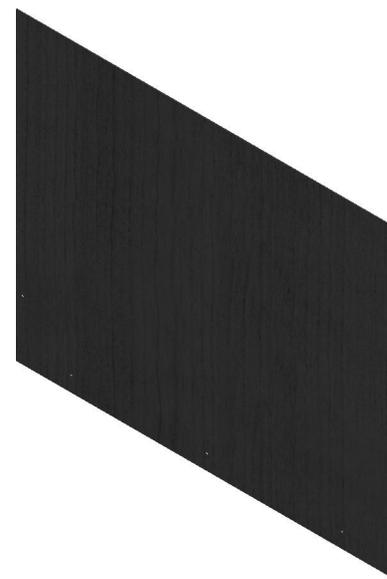
MODEL NAME
GE-16172

TITLE
DOOR PLASTIC, DRAWBRIDGE

REV	ZONE	DESCRIPTION	INITIAL	DATE
A	A-2	.125 WAS .25	DAF	12/16/15



5X \varnothing .26 Thru



Note:

Material: Clear Polycarbonate, .125 Thick
Scale 1:16
Qty: 1

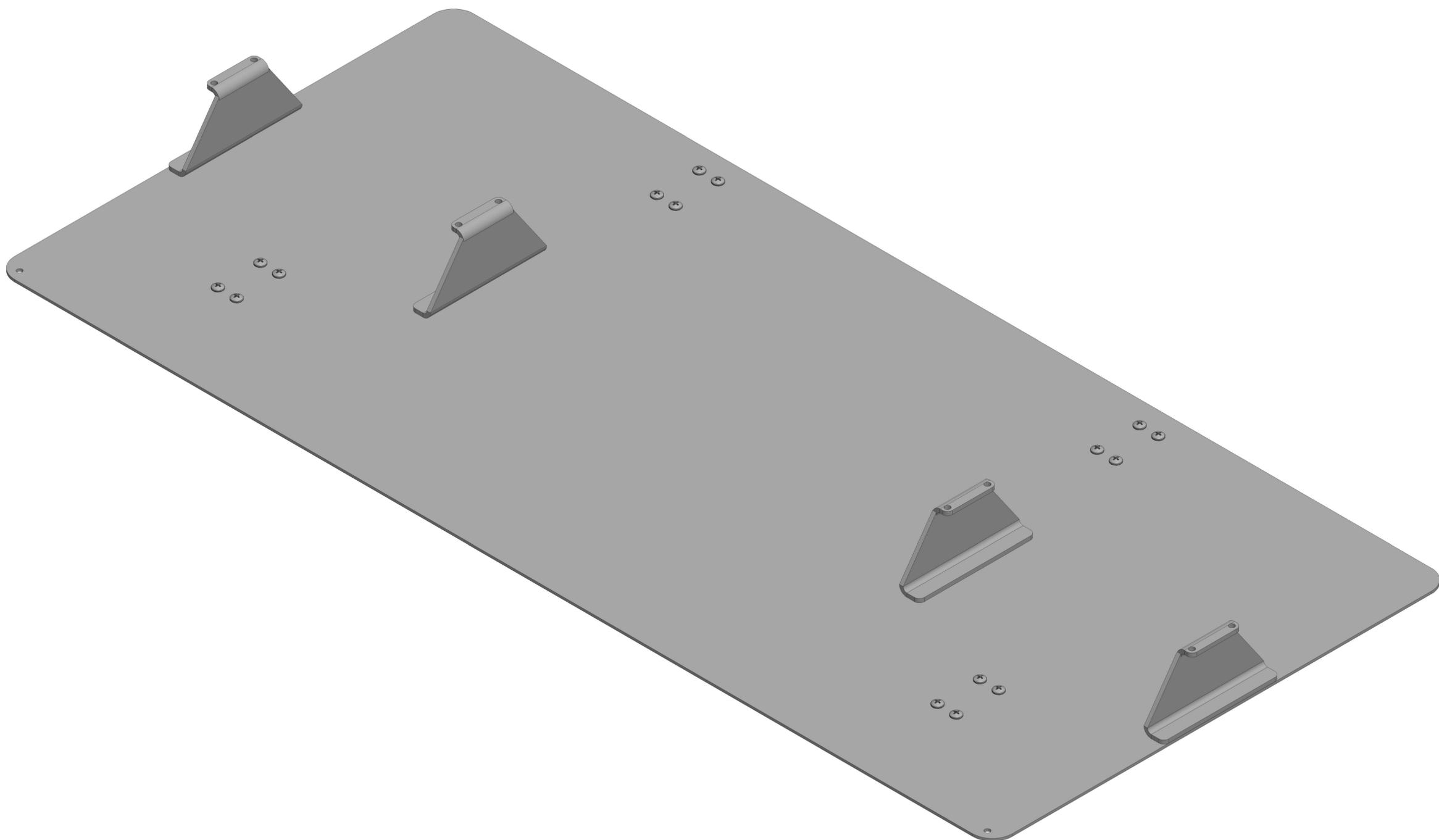
Print to look like wood

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	APPROVED BY	DATE
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TITLE DOOR PLASTIC, DRAWBRIDGE		
PROJECT	MODEL NAME GE-16172	ISSUE

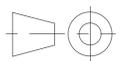
DO NOT SCALE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

MODEL NAME: GE-16176
 TITLE: CDF Base Assembly



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16017	4	defense base keep	See Drawing
2	GE-16150	16	Spacer, .26" ID, .625" OD, .25" Thick	Hardware
3	GE-16151	4	2.5" Tall Swivel Caster	Hardware
4	GE-16177	1	cheval de frise weldment	See Drawing
5	HW-00086	16	pan head, 1/4-20 x 1"	Hardware
6	HW-00087	16	nut, nylock 1/4-20	Hardware

 <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ±.01 XXXX ±.001 ANG ±.1</small> DO NOT SCALE		<small>DRAWN BY</small> <small>CHECKED BY</small> <small>APPROVED BY</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small>	
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	<small>TITLE</small> CDF Base Assembly		<small>MODEL NAME</small> GE-16176	<small>ISSUE</small>
	<small>PROJECT</small>		<small>ISSUE</small>	

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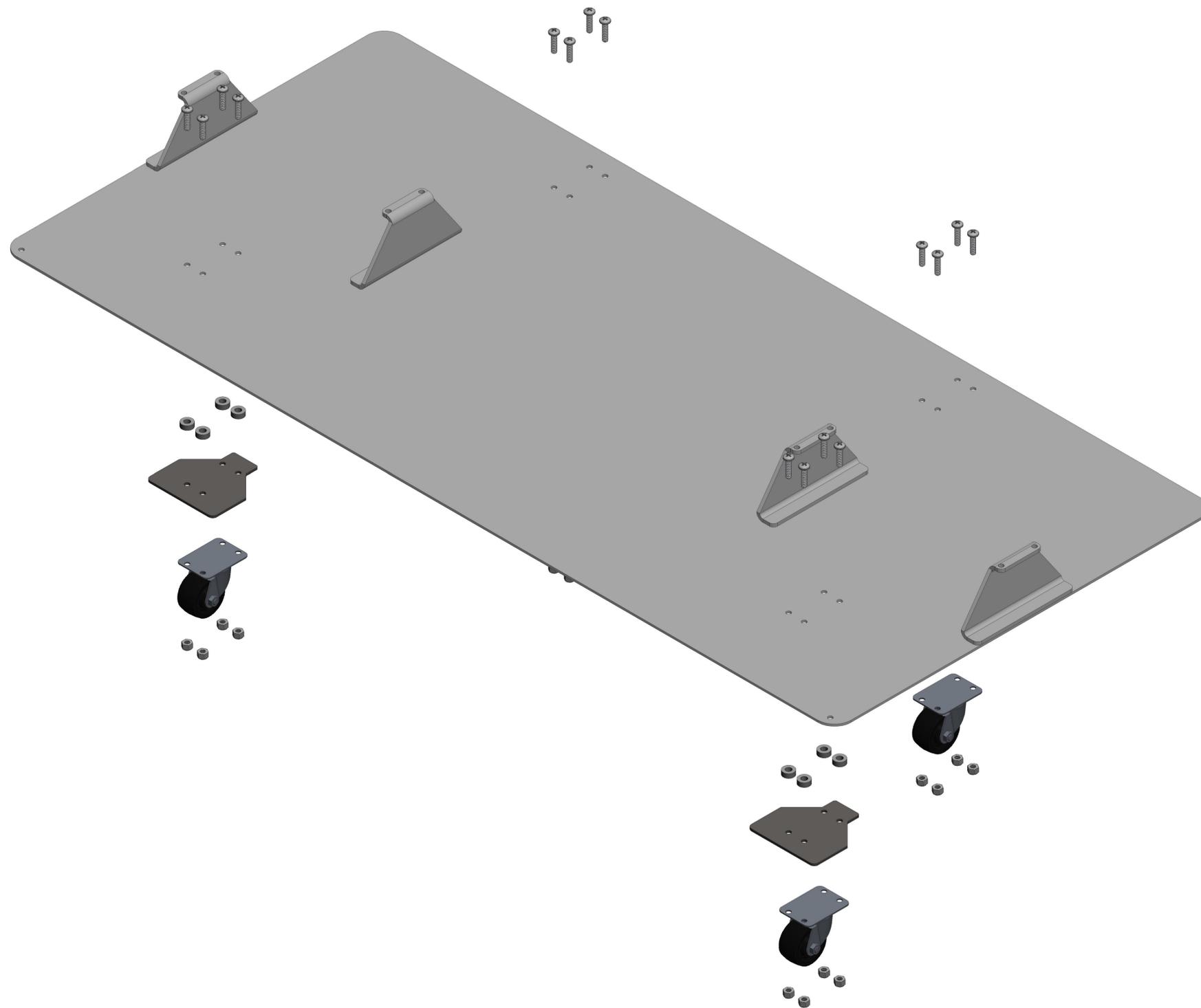
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MODEL NAME: GE-16176 TITLE: CDF Base Assembly



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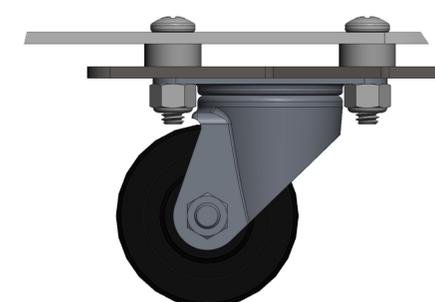
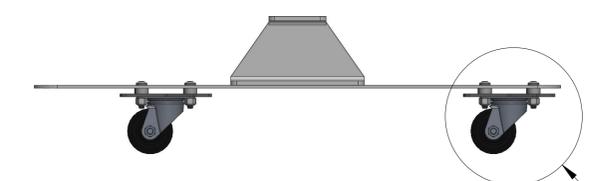
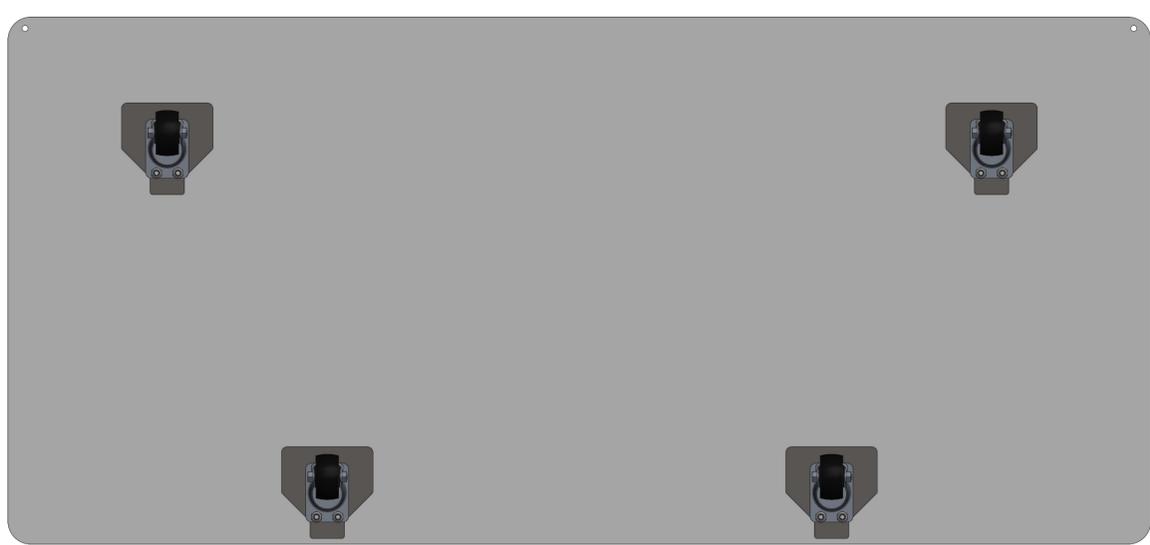
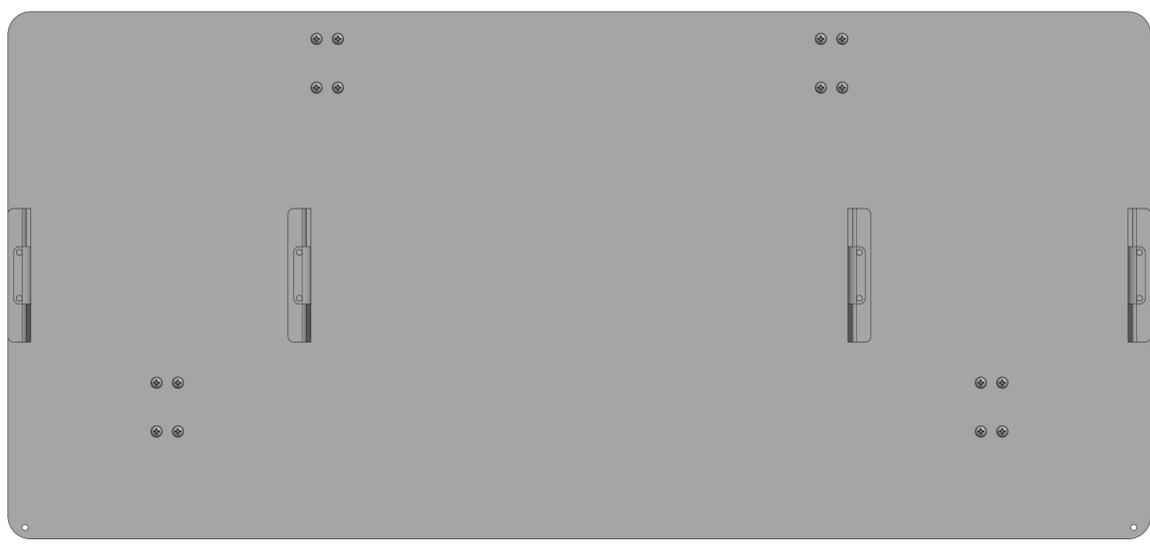
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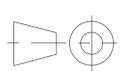
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		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1</small>		TITLE: CDF Base Assembly PROJECT: MODEL NAME: GE-16176 SCALE: 3:8 SHEET 2 OF 3 ISSUE:	
DO NOT SCALE			



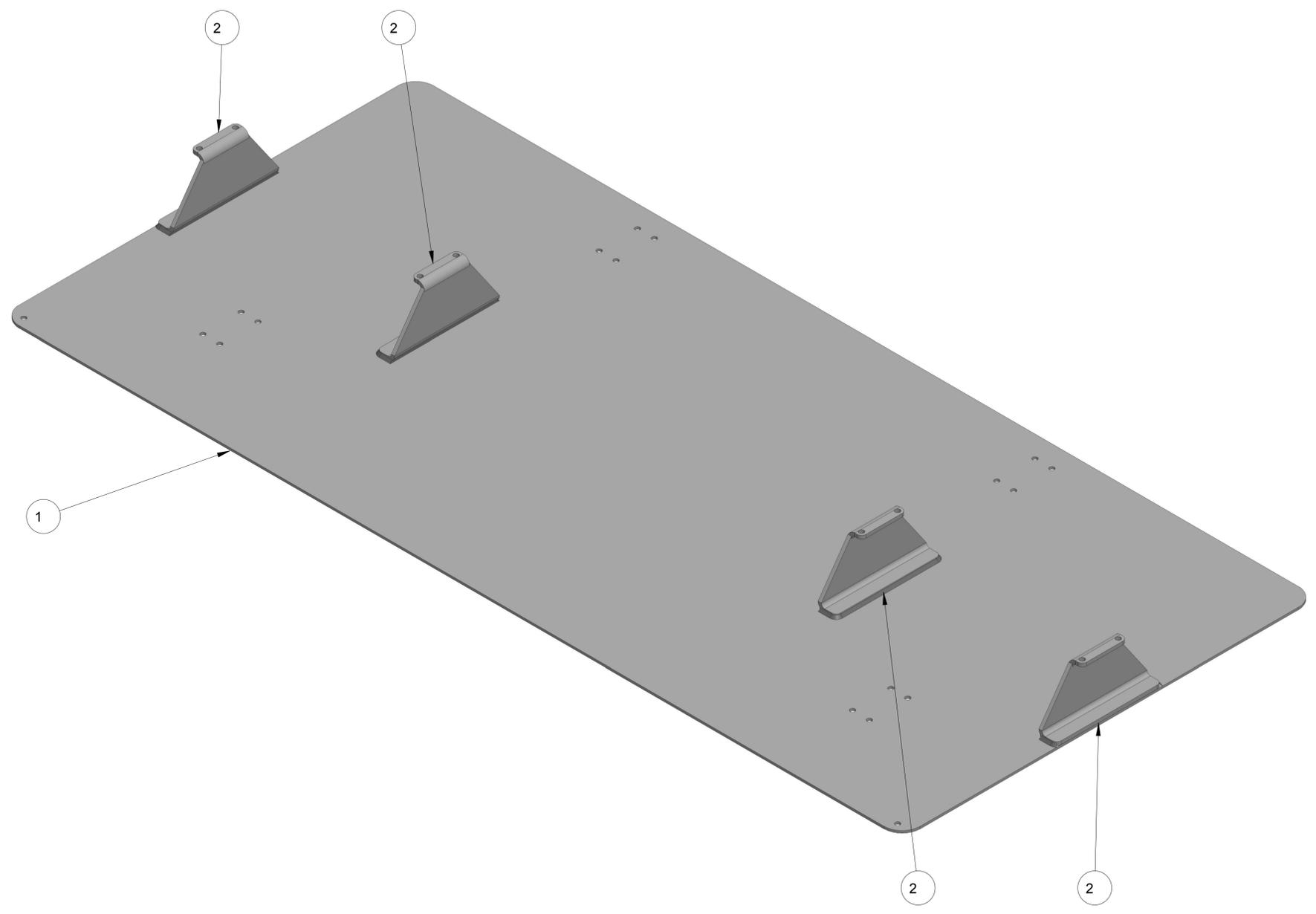
DETAIL A
SCALE 1:1

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TITLE CDF Base Assembly		SCALE 1:2	SHEET 3 OF 3
PROJECT		MODEL NAME GE-16176	ISSUE

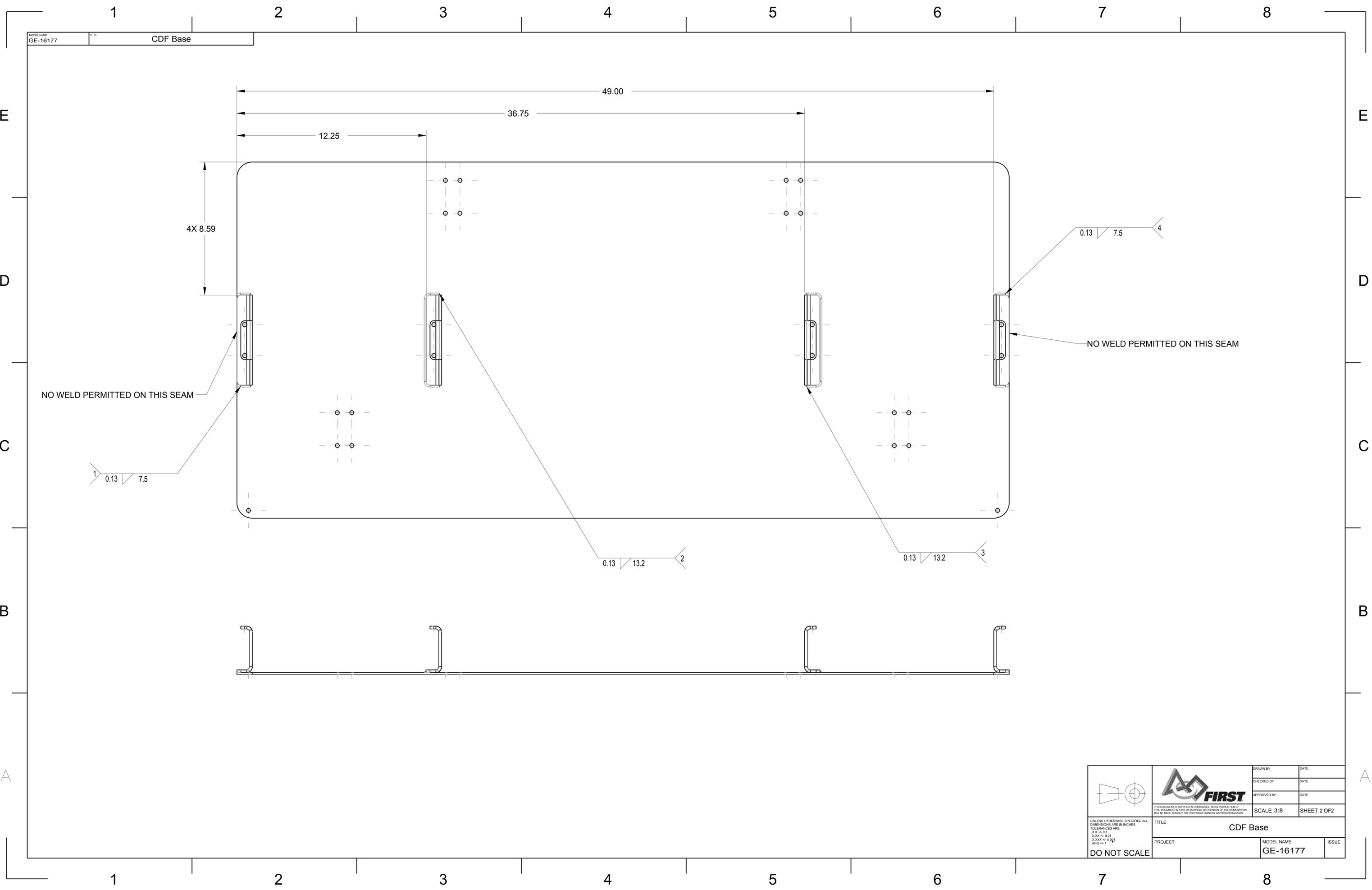
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ±0.1
 XXXX ±0.01
 XXXX ±0.001
 ANG ±1
DO NOT SCALE

MODEL NAME: GE-16177
 TITLE: CDF Base

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16016	1	Defense Base	See Drawing for DEFENSE HOLDER BASE
2	GE-16177-01	4	side plate	See Drawing for CDF SIDEPLATE



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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 XXXX ± 0.001 ANG ± 1</small>	TITLE: CDF Base		SCALE: 3:8 SHEET 1 OF 2
DO NOT SCALE	PROJECT:	MODEL NAME: GE-16177	ISSUE:



NO WELD PERMITTED ON THIS SEAM

NO WELD PERMITTED ON THIS SEAM

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0.13 13.2 2

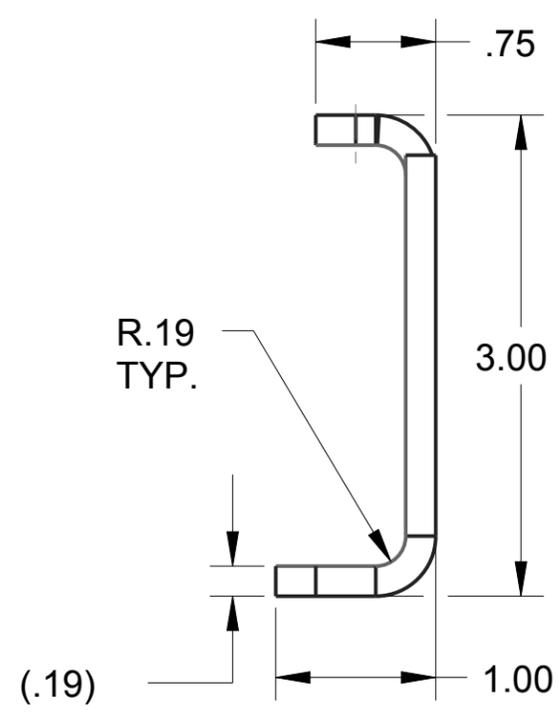
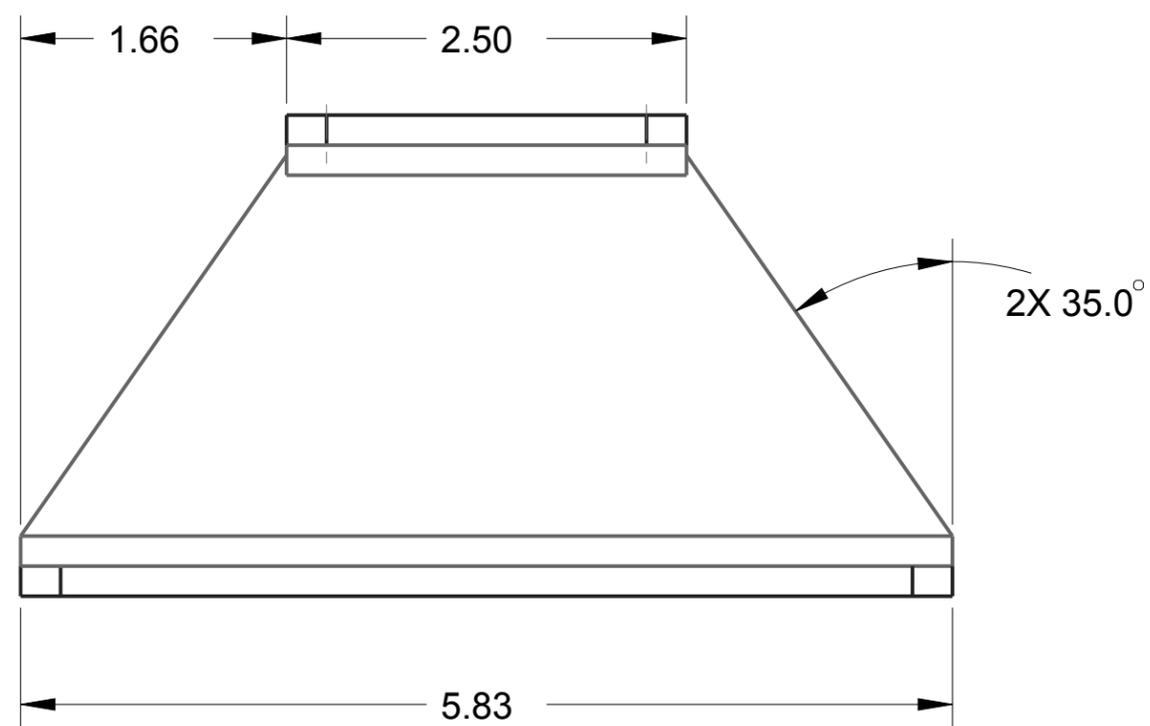
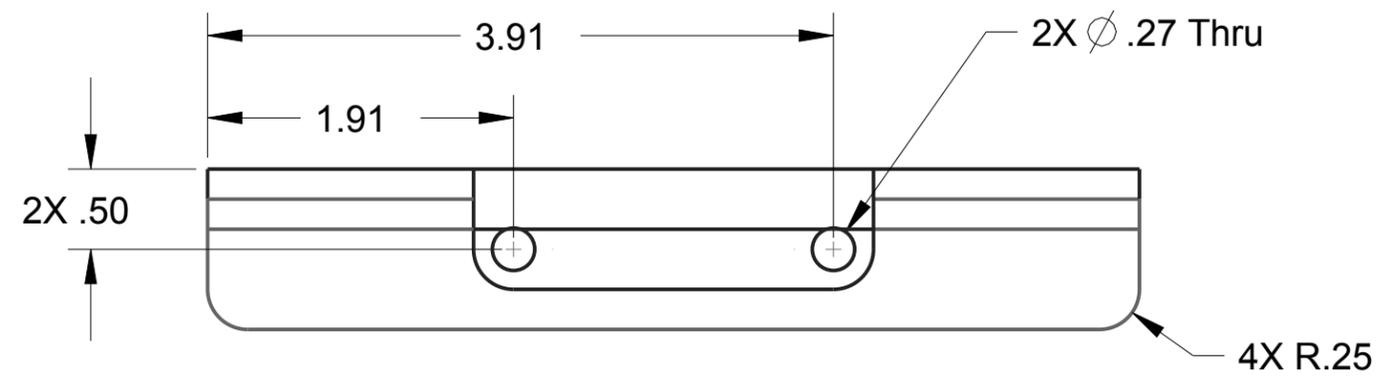
0.13 13.2 3

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	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small>	
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TITLE CDF Base		SHEET 2 OF 2
PROJECT GE-16177		ISSUE

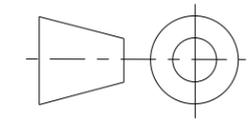
DO NOT SCALE

MODEL NAME
GE-16177-01

TITLE
Sideplate, CDF



NOTE
Material: Steel Sheet, .1875"
Scale: 7:8
Remove all burrs and sharp edges



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



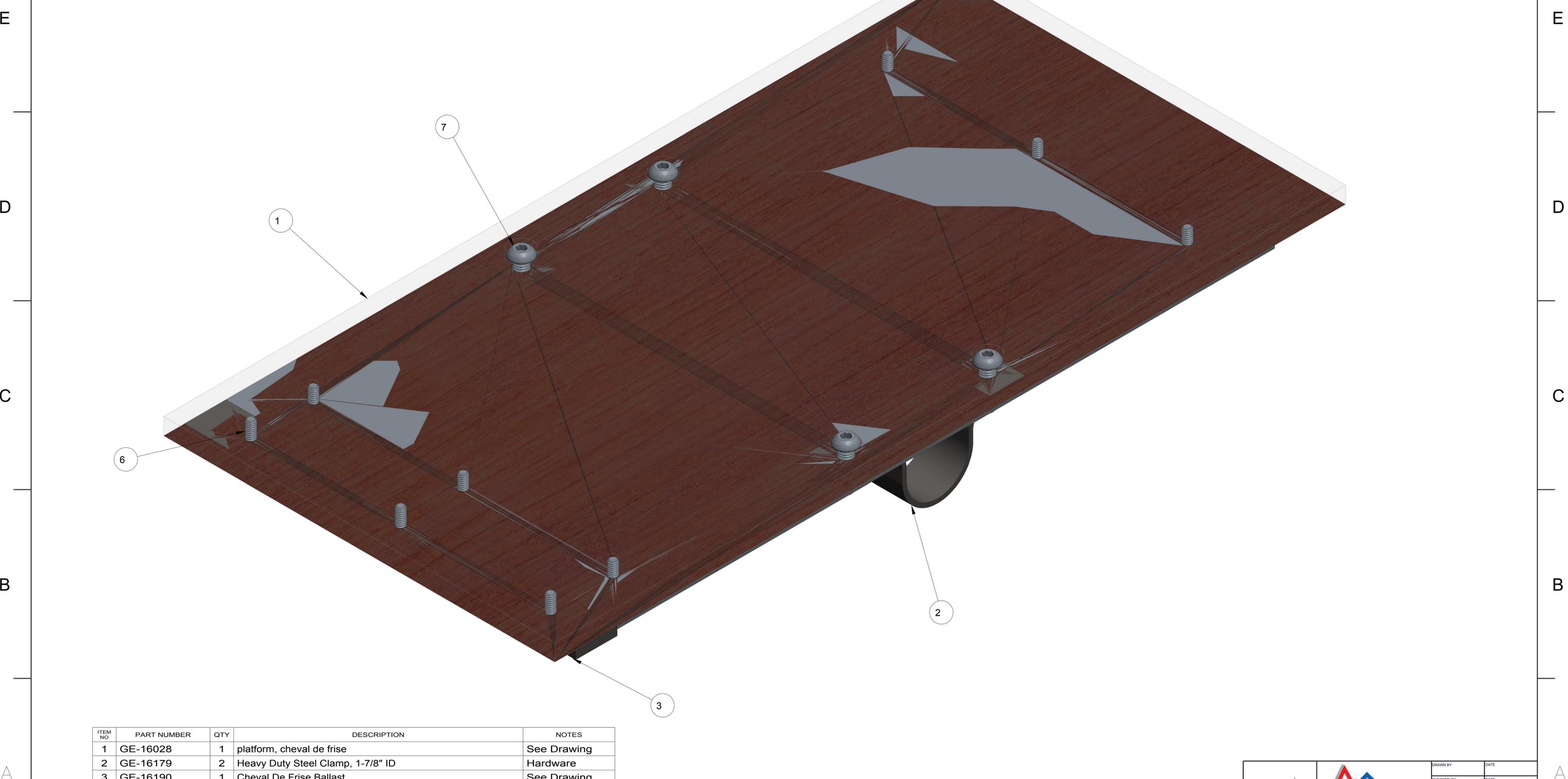
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SCALE 7:8 SHEET 1 OF 1

TITLE Sideplate, CDF	
PROJECT	MODEL NAME GE-16177-01
ISSUE	

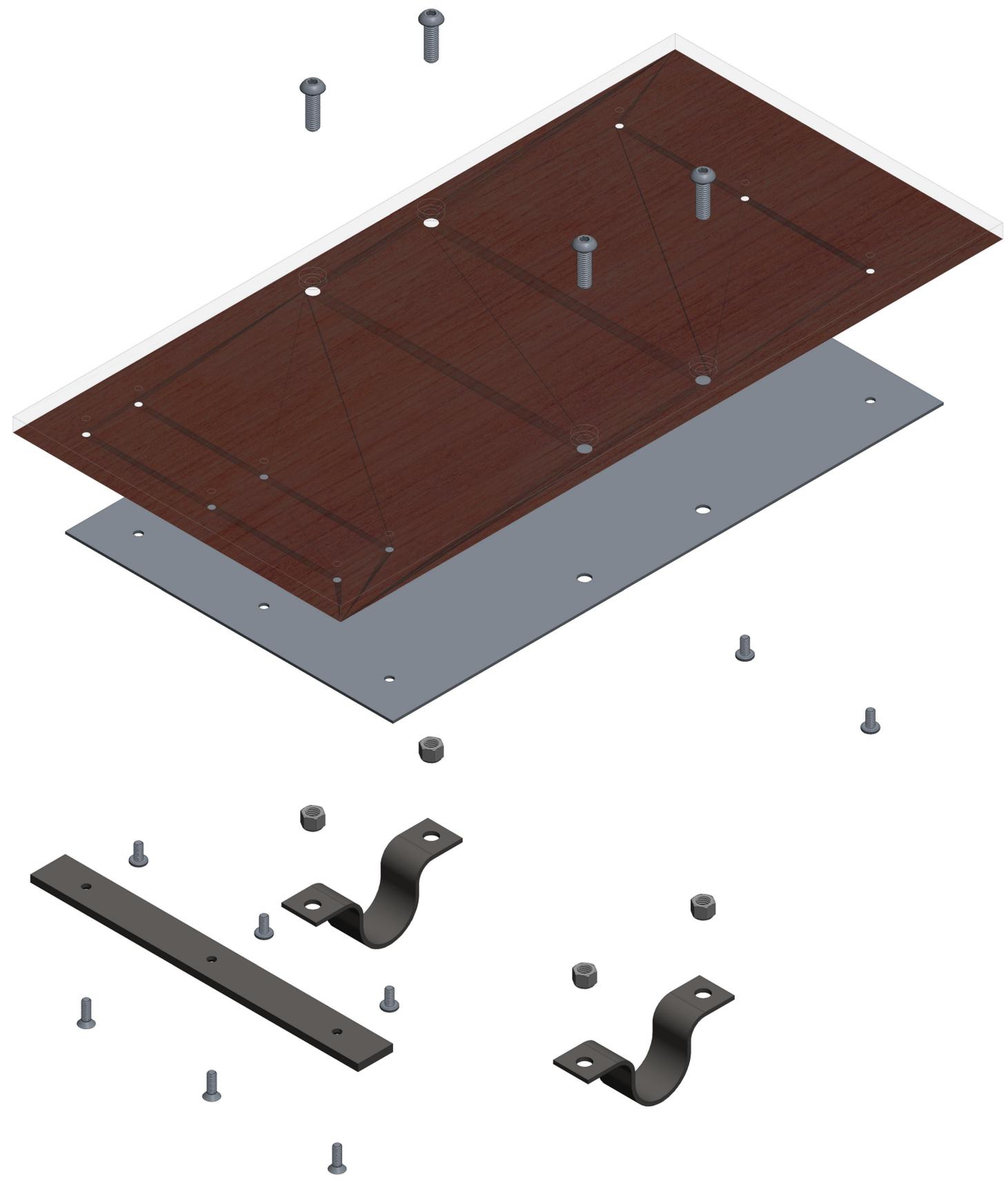
REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-6	Added GE-16239 (Qty. 1), Added HW-00125 (Qty. 6)	NJS	3/1/2016



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16028	1	platform, cheval de frise	See Drawing
2	GE-16179	2	Heavy Duty Steel Clamp, 1-7/8" ID	Hardware
3	GE-16190	1	Cheval De Frise Ballast	See Drawing
⚠ 4	GE-16239	1	CDF Steel Plate	
5	HW-00097	4	nut, nylock 3/8-16	Hardware
6	HW-00102	3	1/4"-20 Flathead Screw, .75" Long	Hardware
7	HW-00119	4	Button Head Cap Screw, 3/8"-16, 1.25" Long	Hardware
⚠ 8	HW-00125	6	Pan Head Machine Screw, 1/4-20 x .5"	

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:1	SHEET 1 OF 3
TITLE: CDF Platform ASM PROJECT: GE-16178 MODEL NAME: GE-16178 ISSUE:		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± .01
 XXXX ± .001
 ANG ± .1
 DO NOT SCALE



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE: CDF Platform ASM		SCALE: 5:8
PROJECT:		ISSUE: SHEET 2 OF 3
MODEL NAME: GE-16178		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± 1
 DO NOT SCALE

MODEL NAME
GE-16178

TITLE
CDF Platform ASM

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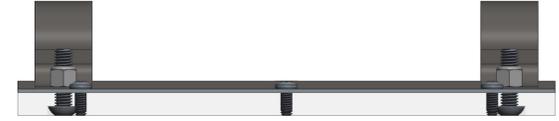
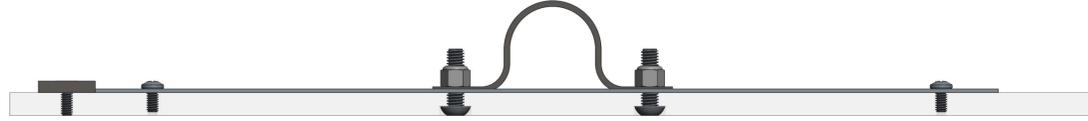
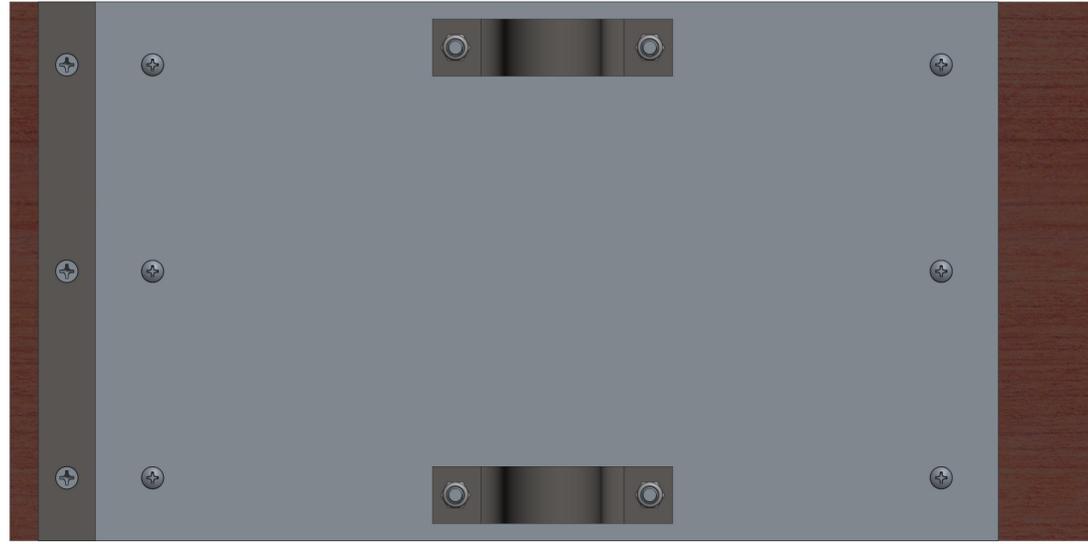
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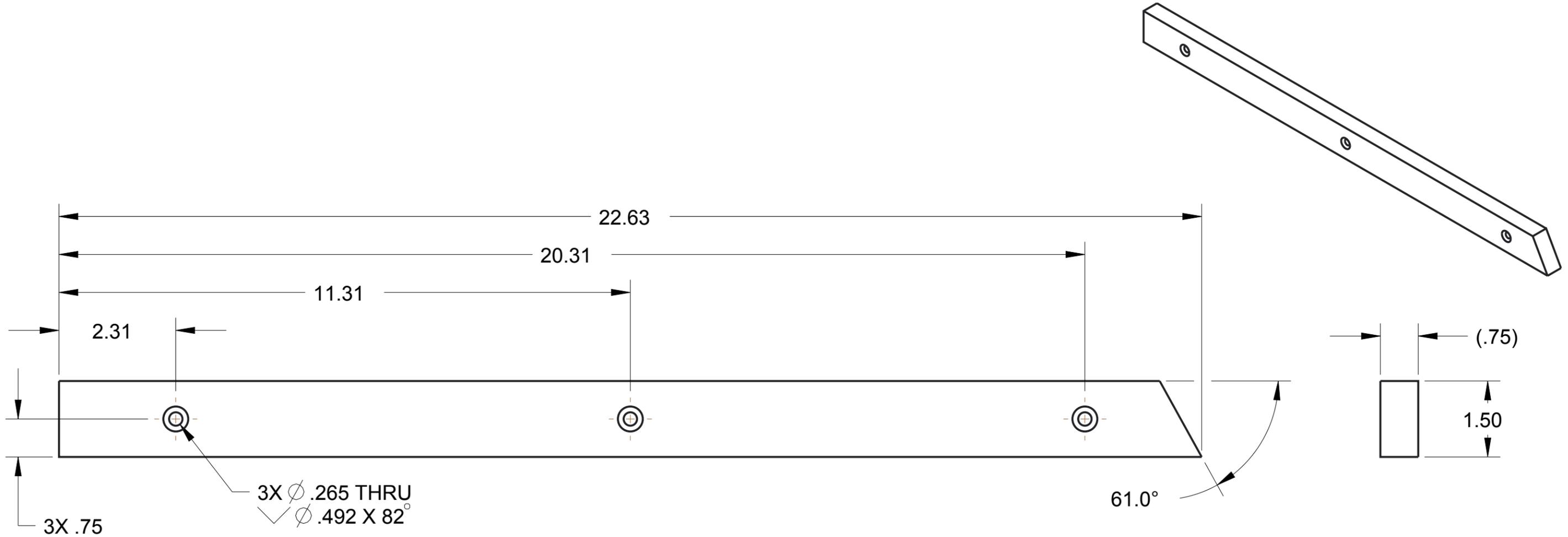
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 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.001 ANG ± 1</p> <p>DO NOT SCALE</p>	<p>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</p>		<p>DRAWN BY</p>	<p>DATE</p>
	<p>CHECKED BY</p>		<p>DATE</p>	<p>APPROVED BY</p>
	<p>APPROVED BY</p>		<p>DATE</p>	<p>SCALE 1:2</p>
	<p>TITLE CDF Platform ASM</p>		<p>SHEET 3 OF 3</p>	<p>ISSUE</p>
<p>PROJECT</p>		<p>MODEL NAME GE-16178</p>		<p>ISSUE</p>

MODEL NAME
GE-16181

TITLE
CLEAT, HALF CORNER

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1	Material Update	NJS	3/1/2016



NOTES:

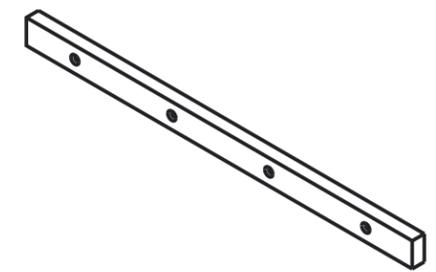
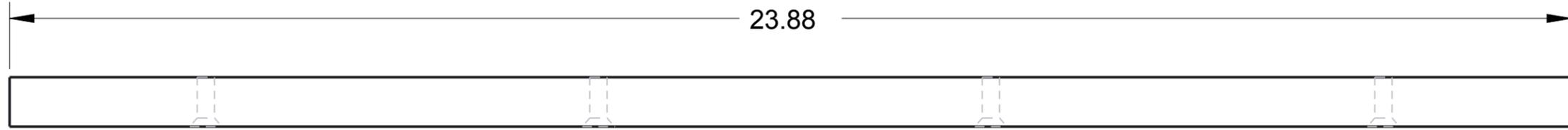
- MATERIAL: 3/4" CLEAR POLYCARBONATE OR BLACK HDPE
- REMOVE ALL BURRS AND SHARP EDGES

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE CLEAT, HALF CORNER		
PROJECT		MODEL NAME GE-16181
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		ISSUE
DO NOT SCALE		

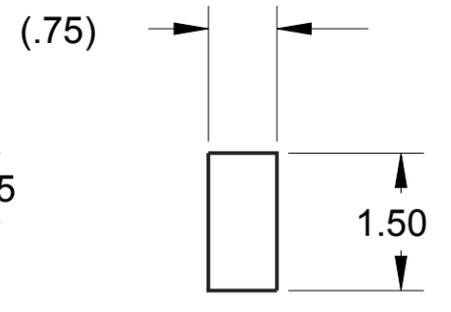
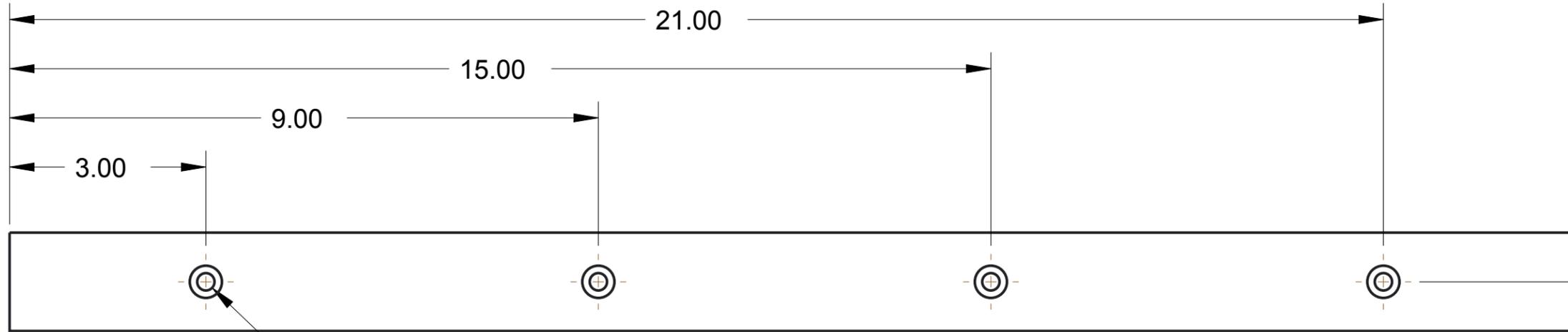
MODEL NAME
GE-16183

TITLE
CLEAT, MIDDLE RAMP

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1	Material Update	NJS	3/1/2016



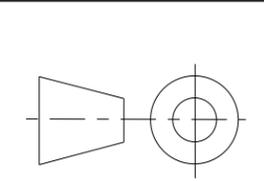
SCALE 1:8



4X ϕ .265 THRU
✓ ϕ .492 X 82°



NOTES:
1. MATERIAL: 3/4" CLEAR POLYCARBONATE OR BLACK HDPE
2. REMOVE ALL BURRS AND SHARP EDGES.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
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X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

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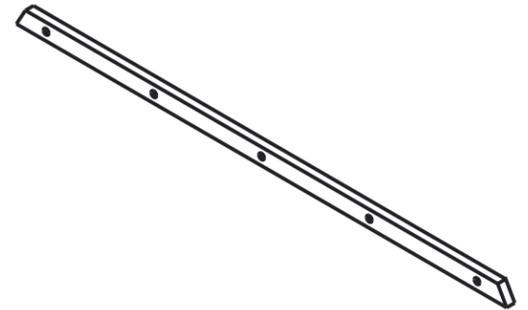
SCALE 1:2 SHEET 1 OF 1

TITLE	CLEAT, MIDDLE RAMP	
PROJECT	MODEL NAME	ISSUE
	GE-16183	

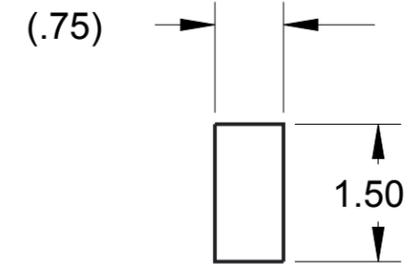
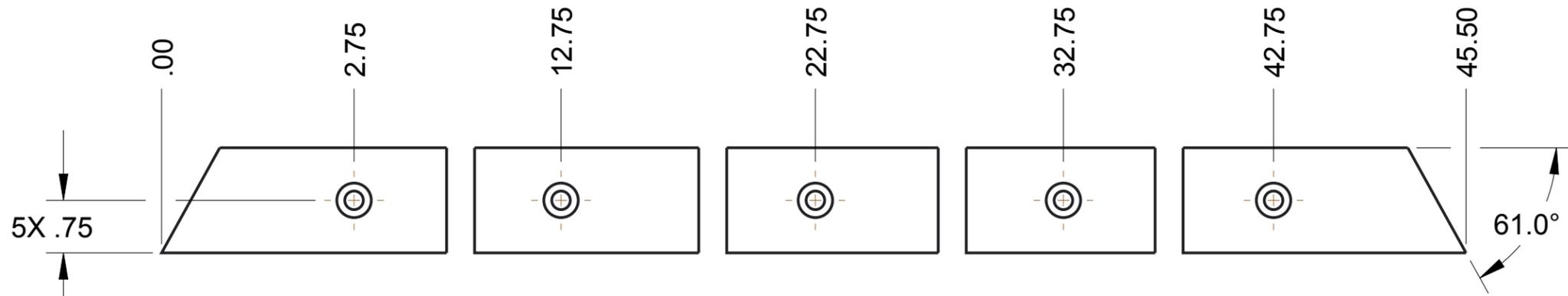
MODEL NAME
GE-16184

TITLE
CLEAT, CORNER RAMP

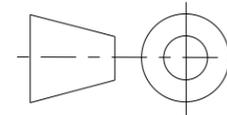
REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1	Material Update	NJS	3/1/2016



SCALE 1:12



NOTES;
 1. MATERIAL: 3/4" CLEAR POLYCARBONATE OR BLACK HDPE
 2. REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE



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APPROVED BY	DATE
SCALE 1:2	SHEET 1 OF 1

TITLE CLEAT, CORNER RAMP		
PROJECT	MODEL NAME GE-16184	ISSUE

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MODEL NAME: GE-16185 TITLE: Corner Batter Plastic Assembly

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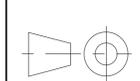
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ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16143	1	batter plastic, corner	See Drawing
2	GE-16184	1	CLEAT, CORNER RAMP	See Drawing
3	HW-00055	5	1/4"-20 Flat Head Machine Screw, 1.25" Long	Hardware
4	HW-00087	5	nut, nylock 1/4-20	Hardware

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		<small>DRAWN BY</small> <small>CHECKED BY</small> <small>APPROVED BY</small>	<small>DATE</small> <small>DATE</small> <small>DATE</small>
	<small>TITLE</small> Corner Batter Plastic Assembly		<small>SCALE</small> 1:2
	<small>PROJECT</small>		<small>MODEL NAME</small> GE-16185
	<small>SHEET 1 OF 3</small>		<small>ISSUE</small>

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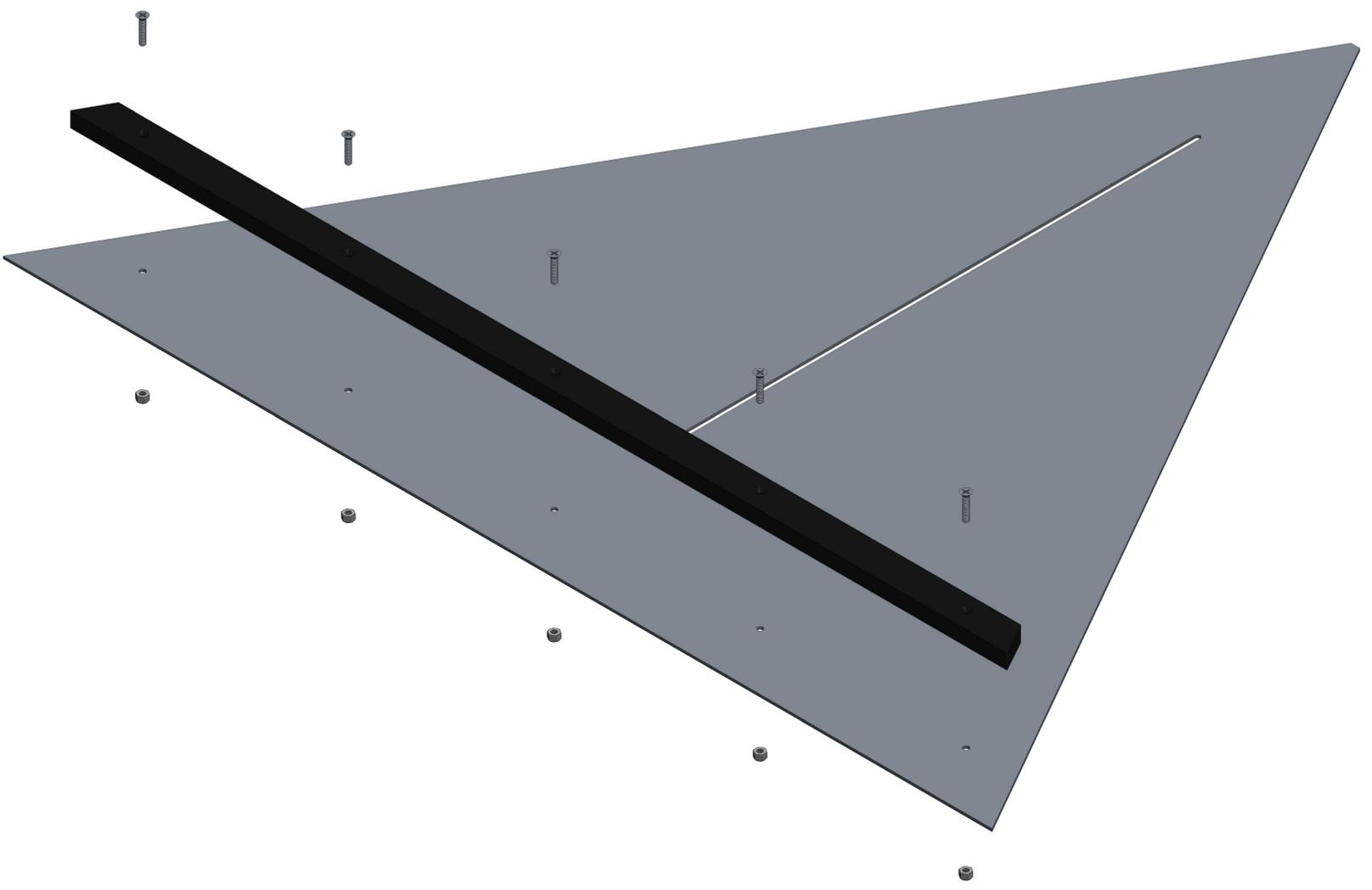
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MODEL NAME
GE-16185

TITLE
Corner Batter Plastic Assembly



SCALE 3:8

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	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 X.XXX ± 0.001 ANG ± 1</small>	TITLE Corner Batter Plastic Assembly	
DO NOT SCALE	PROJECT 	MODEL NAME GE-16185
		ISSUE

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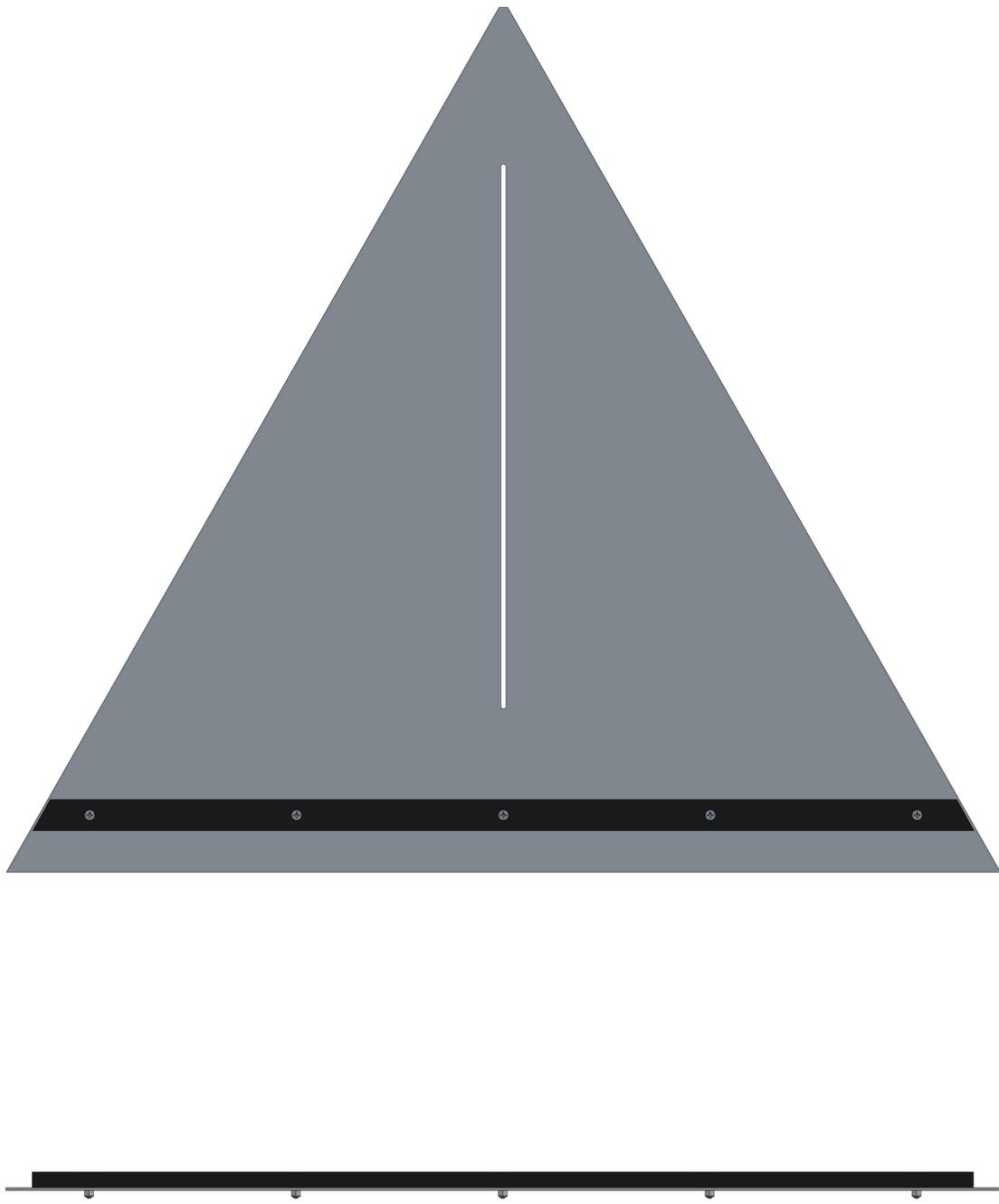
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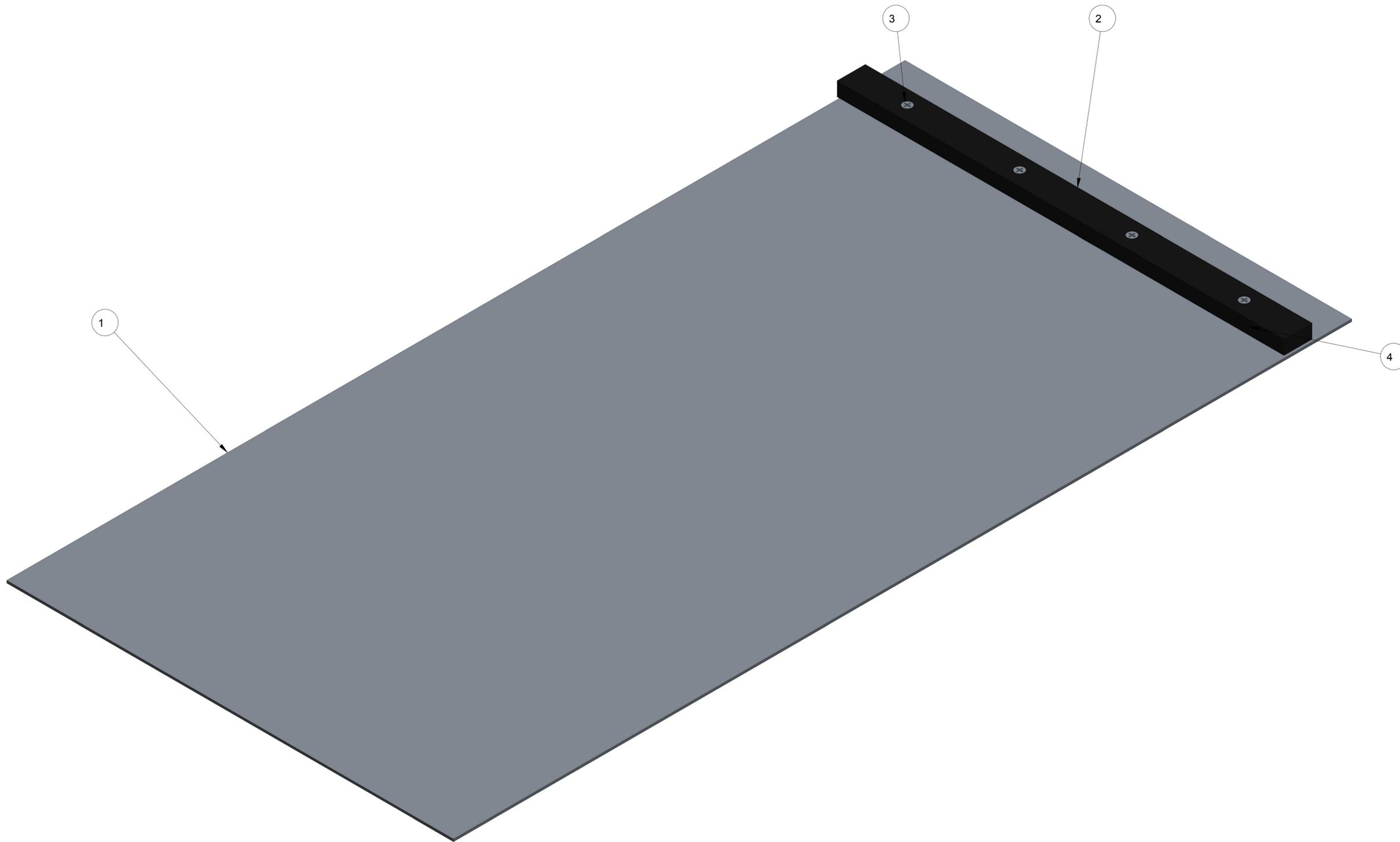
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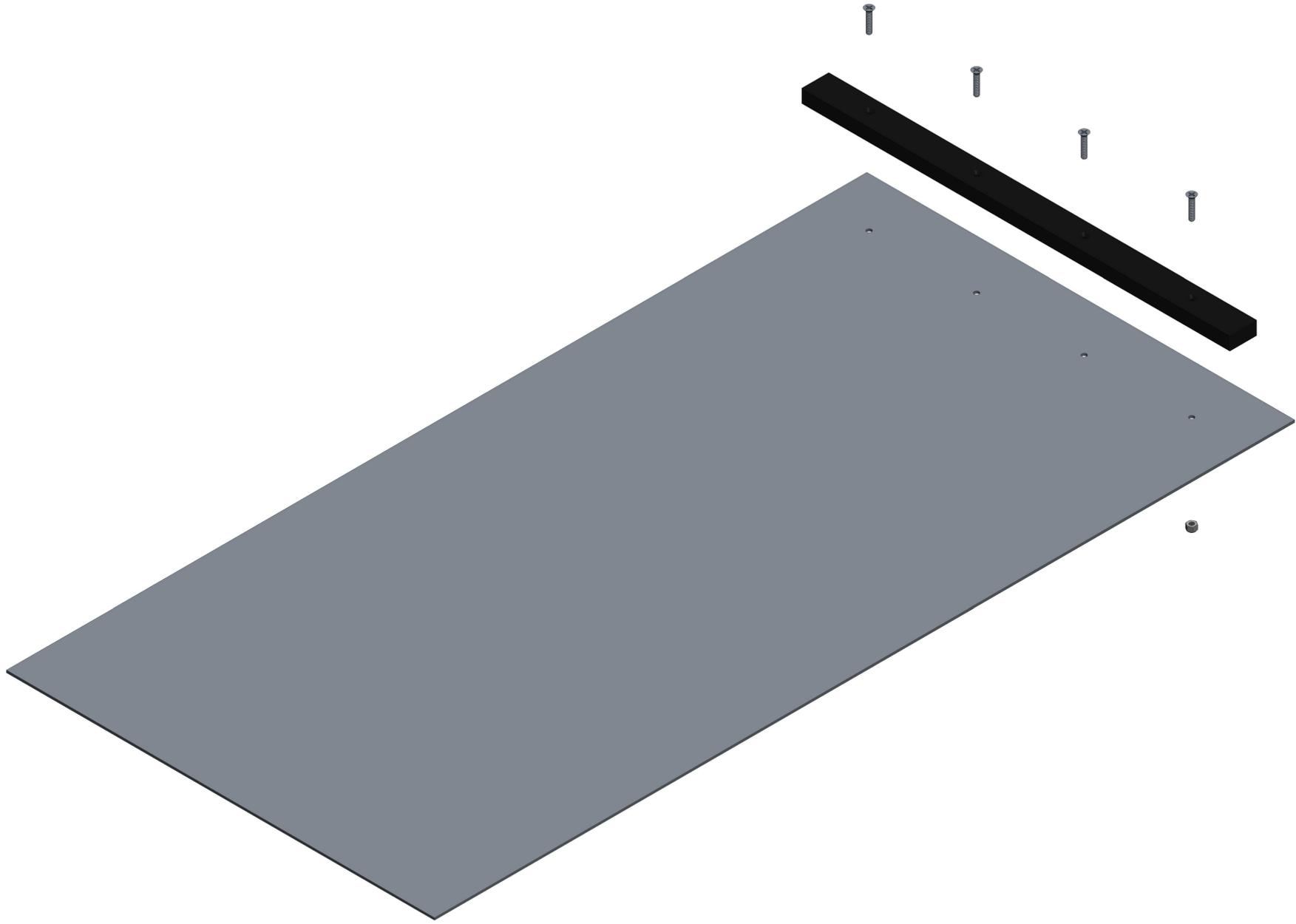
NOTE: Hook fastener applied to this side to adhere to GE-16139

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1</p> <p>DO NOT SCALE</p>	<p>DRAWN BY</p>	<p>DATE</p>
	<p>CHECKED BY</p>	<p>DATE</p>
	<p>APPROVED BY</p>	<p>DATE</p>
	<p>SCALE 1:8 SHEET 3 OF 3</p>	
<p>TITLE: Corner Batter Plastic Assembly</p>		
<p>PROJECT</p>	<p>MODEL NAME</p>	<p>ISSUE</p>
<p>GE-16185</p>		



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16142	1	batter plastic, middle	See Drawing
2	GE-16183	1	CLEAT, MIDDLE RAMP	See Drawing
3	HW-00055	4	1/4"-20 Flat Head Machine Screw, 1.25" Long	Hardware
4	HW-00087	4	nut, nylock 1/4-20	Hardware

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>		TITLE MIDDLE BATTER PLASTIC ASSEMBLY	
PROJECT		MODEL NAME GE-16186	ISSUE
DO NOT SCALE		SCALE 1:2	SHEET 1 OF 3



SCALE 3:8

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXX ± 0.01 XXX ± 0.001 ANG ± 1</small>	TITLE MIDDLE BATTER PLASTIC ASSEMBLY	
DO NOT SCALE	PROJECT 	MODEL NAME GE-16186
		ISSUE

1 2 3 4 5 6 7 8

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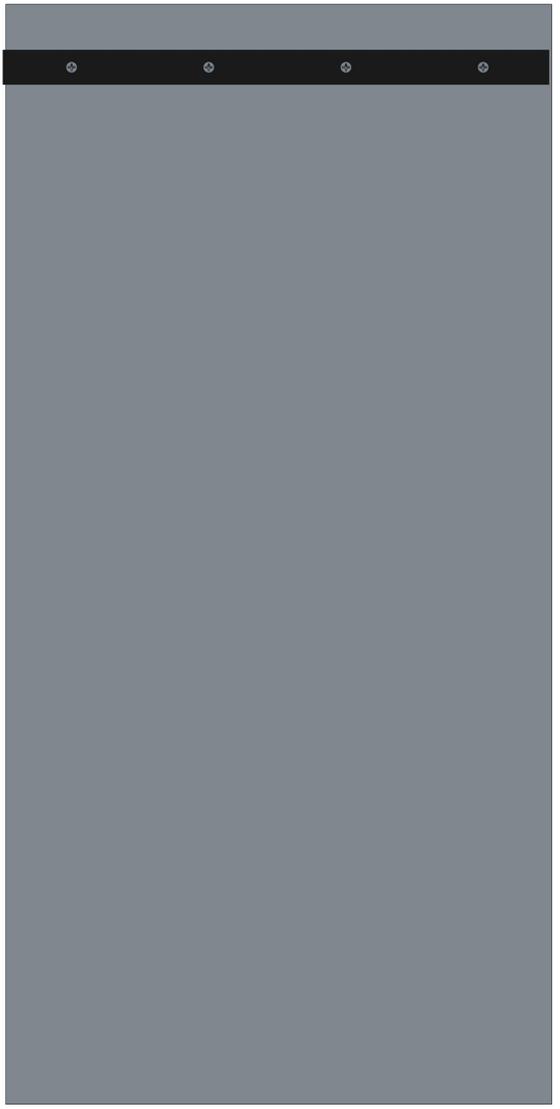
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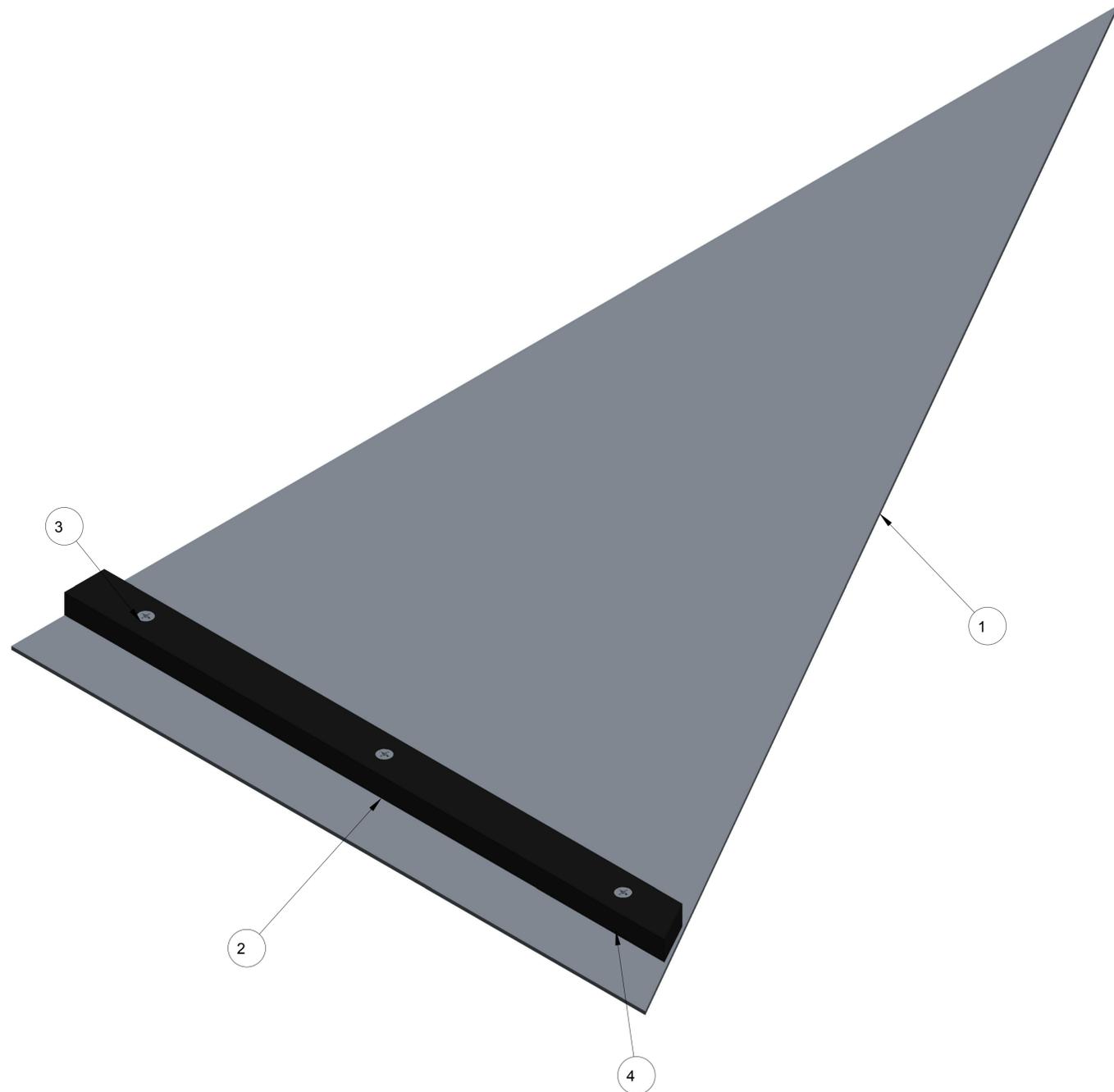
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1 2 3 4 5 6 7 8



NOTE: Hook fastener applied to this side to adhere to GE-16137 and GE-16138

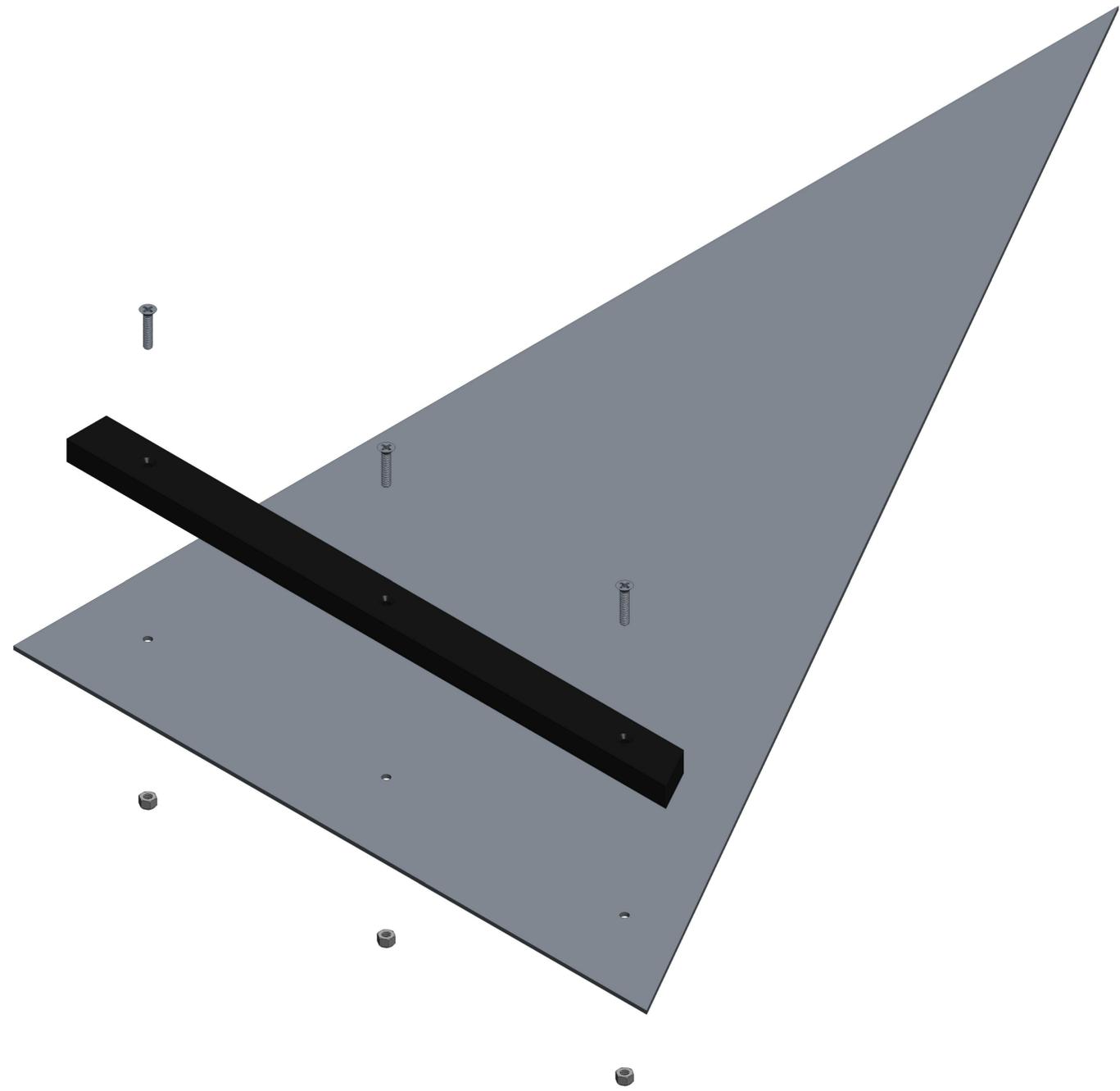
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1</small>	TITLE MIDDLE BATTER PLASTIC ASSEMBLY	
PROJECT DO NOT SCALE	MODEL NAME GE-16186	SHEET 3 OF 3 ISSUE

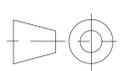


ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16144	1	batter plastic, half corner	See Drawing
2	GE-16181	1	CLEAT, HALF CORNER	See Drawing
3	HW-00055	3	1/4"-20 Flat Head Machine Screw, 1.25" Long	Hardware
4	HW-00087	3	nut, nylock 1/4-20	Hardware

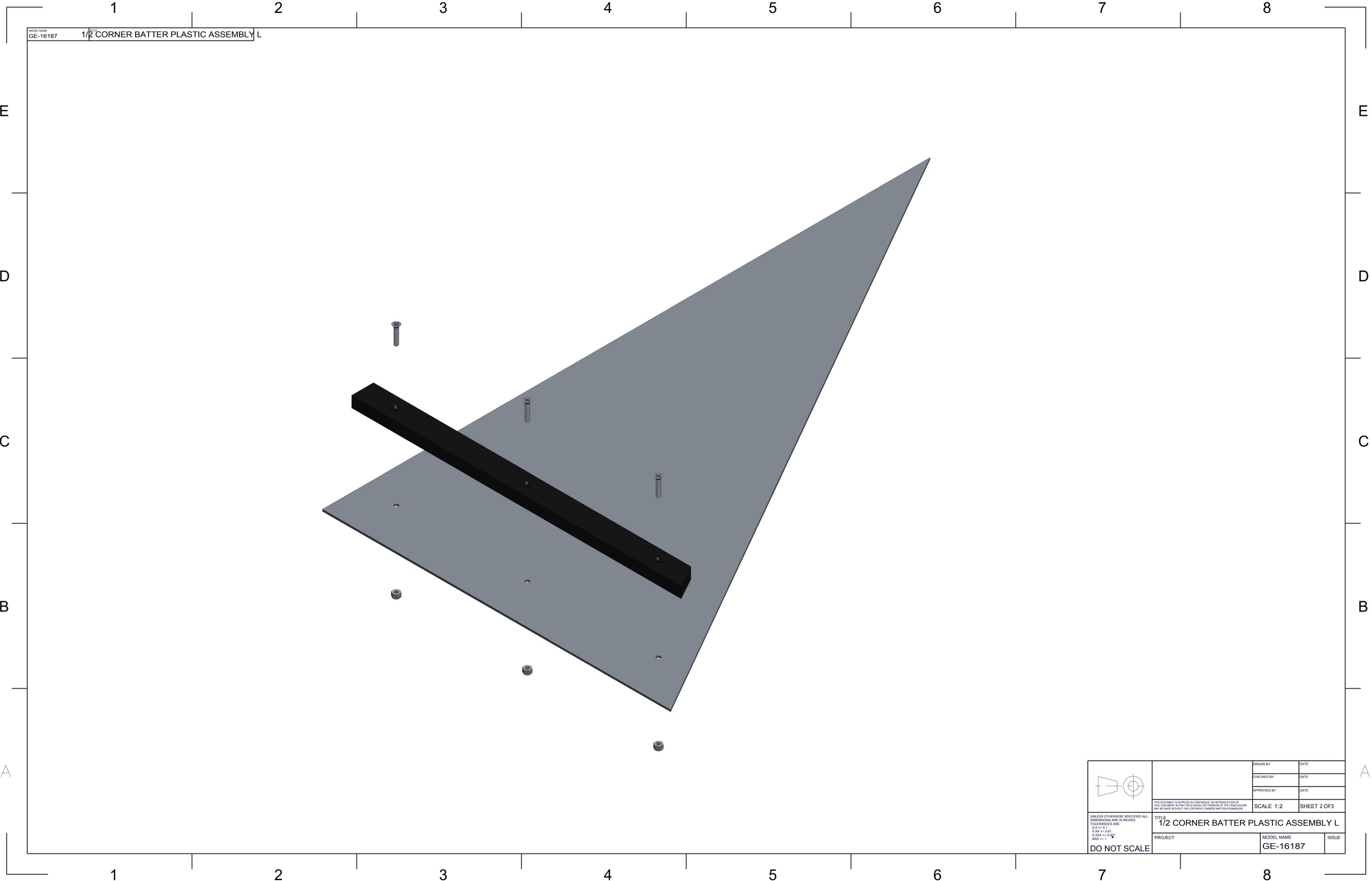
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	APPROVED BY _____ DATE _____
	SCALE 3:8 SHEET 1 OF 3
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 ANG ± 1 DO NOT SCALE	TITLE 1/2 CORNER BATTER PLASTIC ASSEMBLY L
PROJECT _____	MODEL NAME GE-16187
ISSUE _____	

MODEL NAME: GE-16187 1/2 CORNER BATTER PLASTIC ASSEMBLY L



	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.01 X.XXX ± 0.001 ANG ± 1</small>		<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>
TITLE 1/2 CORNER BATTER PLASTIC ASSEMBLY L		SCALE 1:2 SHEET 2 OF 3
PROJECT	MODEL NAME	ISSUE
	GE-16187	

DO NOT SCALE

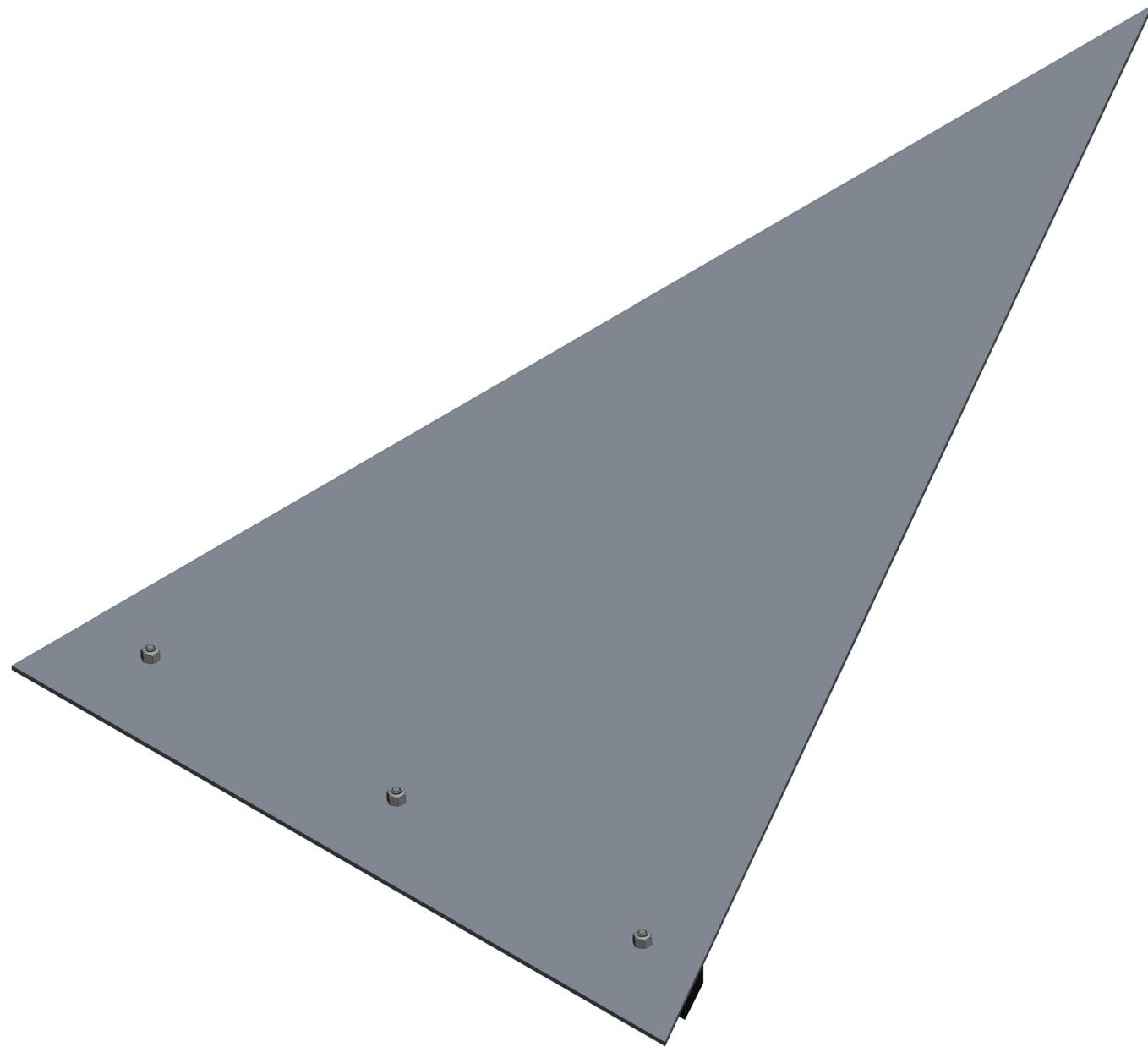




NOTE: Hook fastener applied to this side to adhere to GE-16140

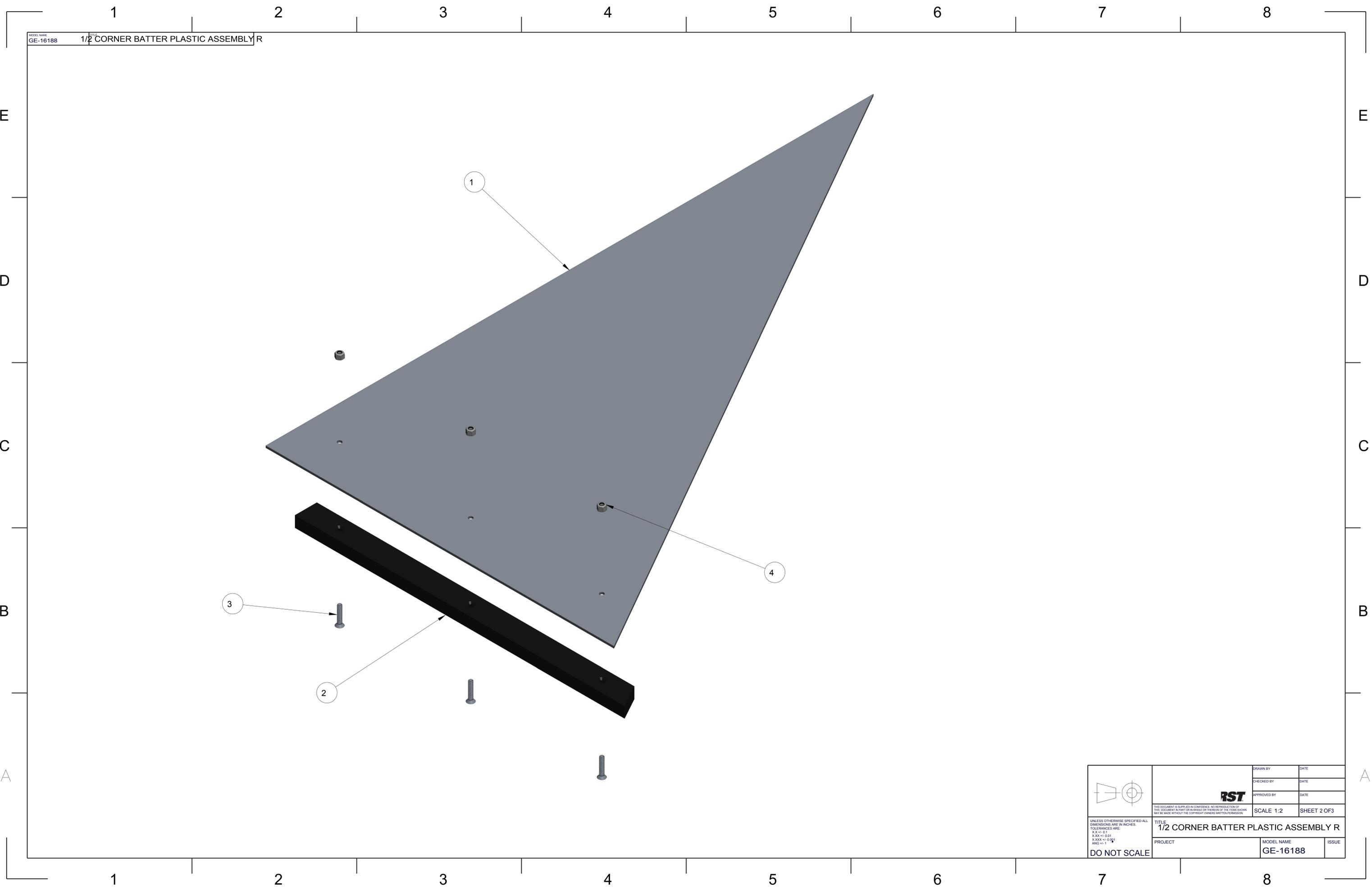
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	APPROVED BY	DATE
	SCALE 3:8 SHEET 3 OF 3	
TITLE: 1/2 CORNER BATTER PLASTIC ASSEMBLY L		
PROJECT		MODEL NAME: GE-16187
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 ANG ± 1
 DO NOT SCALE

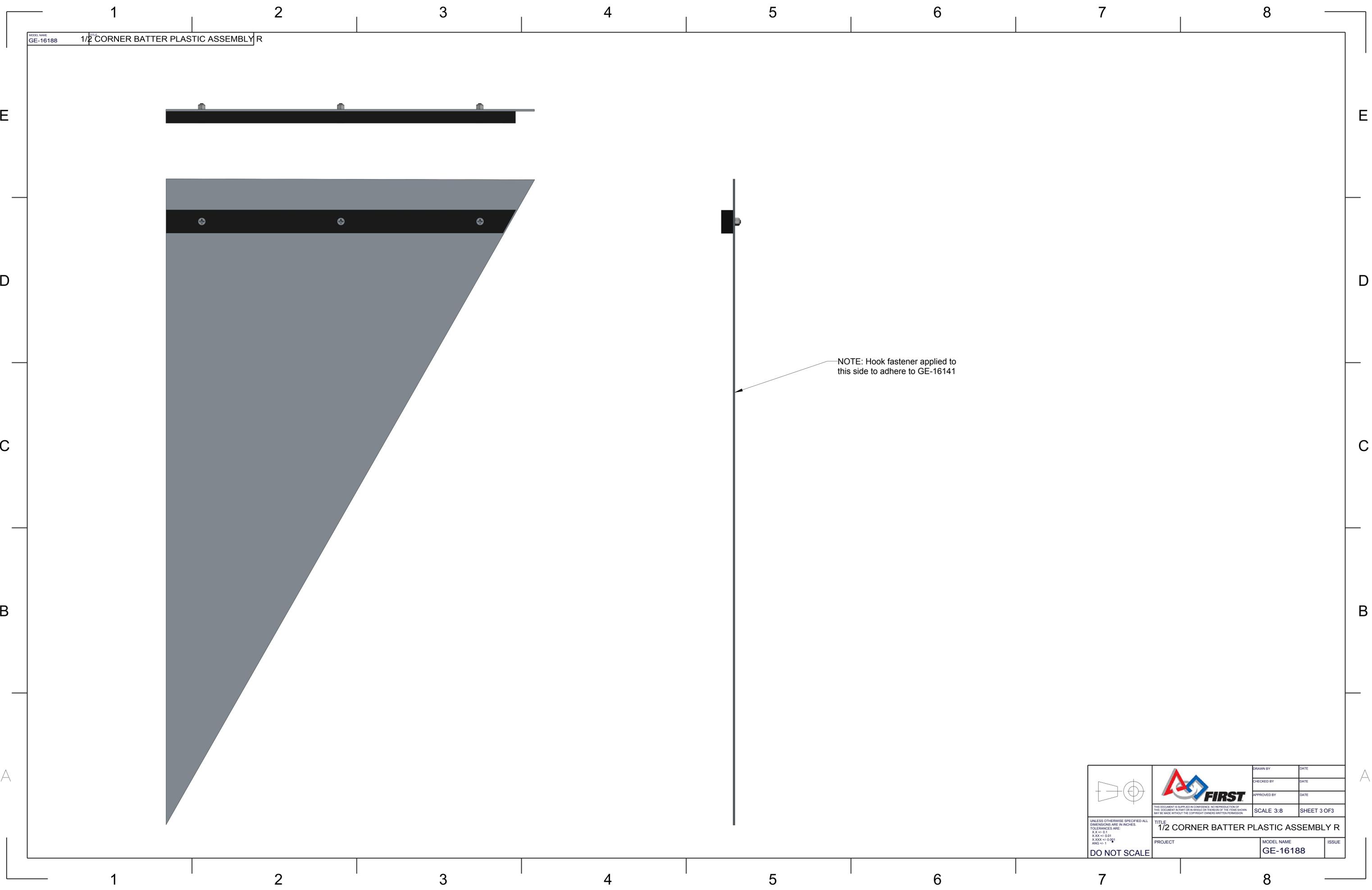


ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16144	1	batter plastic, half corner	See Drawing
2	GE-16181	1	CLEAT, HALF CORNER	See Drawing
3	HW-00055	3	1/4"-20 Flat Head Machine Screw, 1.25" Long	Hardware
4	HW-00087	3	nut, nylock 1/4-20	Hardware

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 1:2 SHEET 1 OF 3	
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 ANG ± 1</small> DO NOT SCALE	TITLE 1/2 CORNER BATTER PLASTIC ASSEMBLY R	
PROJECT	MODEL NAME GE-16188	ISSUE

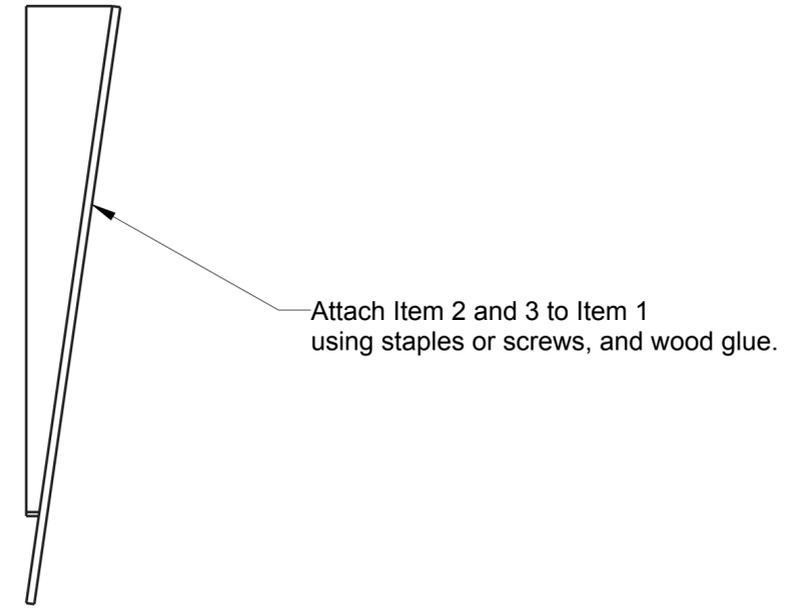
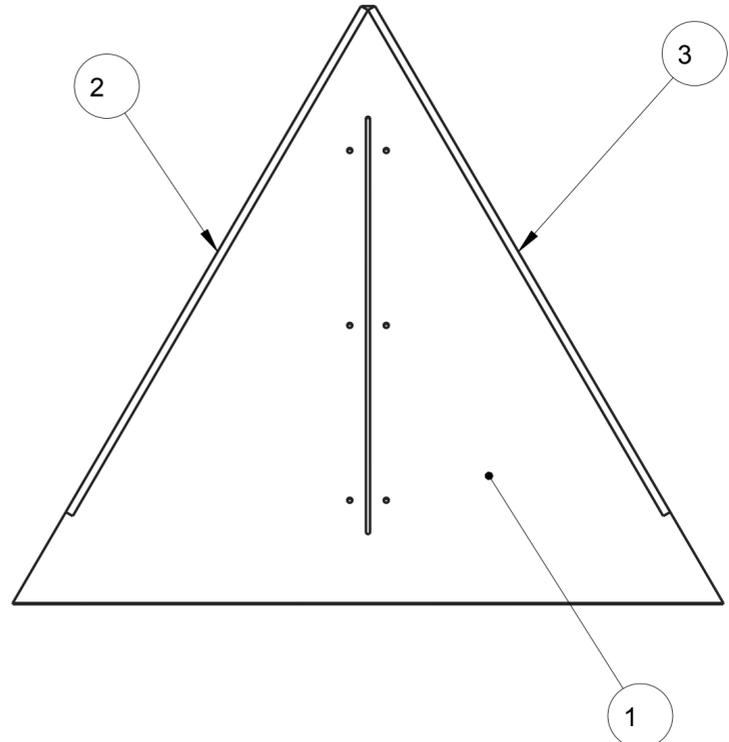
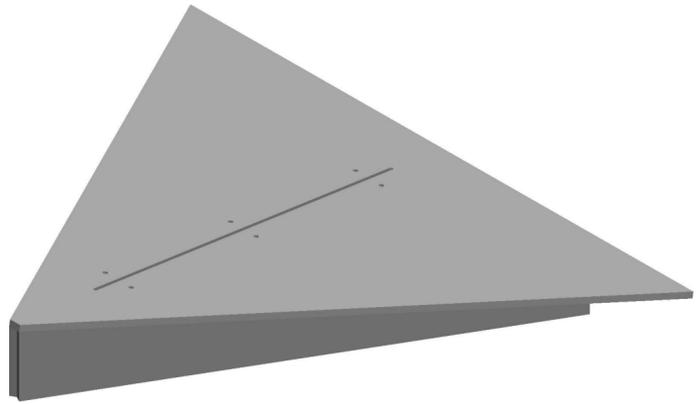
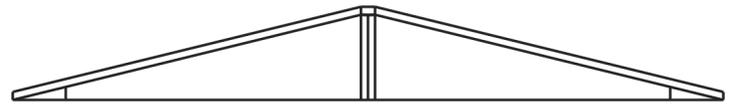


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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX ± 0.1 XXXX ± 0.01 ANG ± 1</small>			<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>	
TITLE 1/2 CORNER BATTER PLASTIC ASSEMBLY R			SCALE 1:2 SHEET 2 OF 3	
PROJECT			MODEL NAME GE-16188	
DO NOT SCALE			ISSUE	



NOTE: Hook fastener applied to this side to adhere to GE-16141

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. X.XX +/- 0.1 X.XXX +/- 0.01 ANG +/- 1</small>	
TITLE 1/2 CORNER BATTER PLASTIC ASSEMBLY R		SCALE 3:8	SHEET 3 OF 3
PROJECT		MODEL NAME GE-16188	ISSUE
DO NOT SCALE			



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16189-01	1	RAMP	1/2" Plywood
2	GE-16189-02	1	SIDE 1	1/2" Plywood
3	GE-16189-03	1	SIDE 2	1/2" Plywood

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		CHECKED BY	DATE
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE	<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		APPROVED BY DATE SCALE 1:8 SHEET 1 OF 3
	TITLE: BATTER RAMP, CORNER		
	PROJECT	MODEL NAME GE-16189	ISSUE

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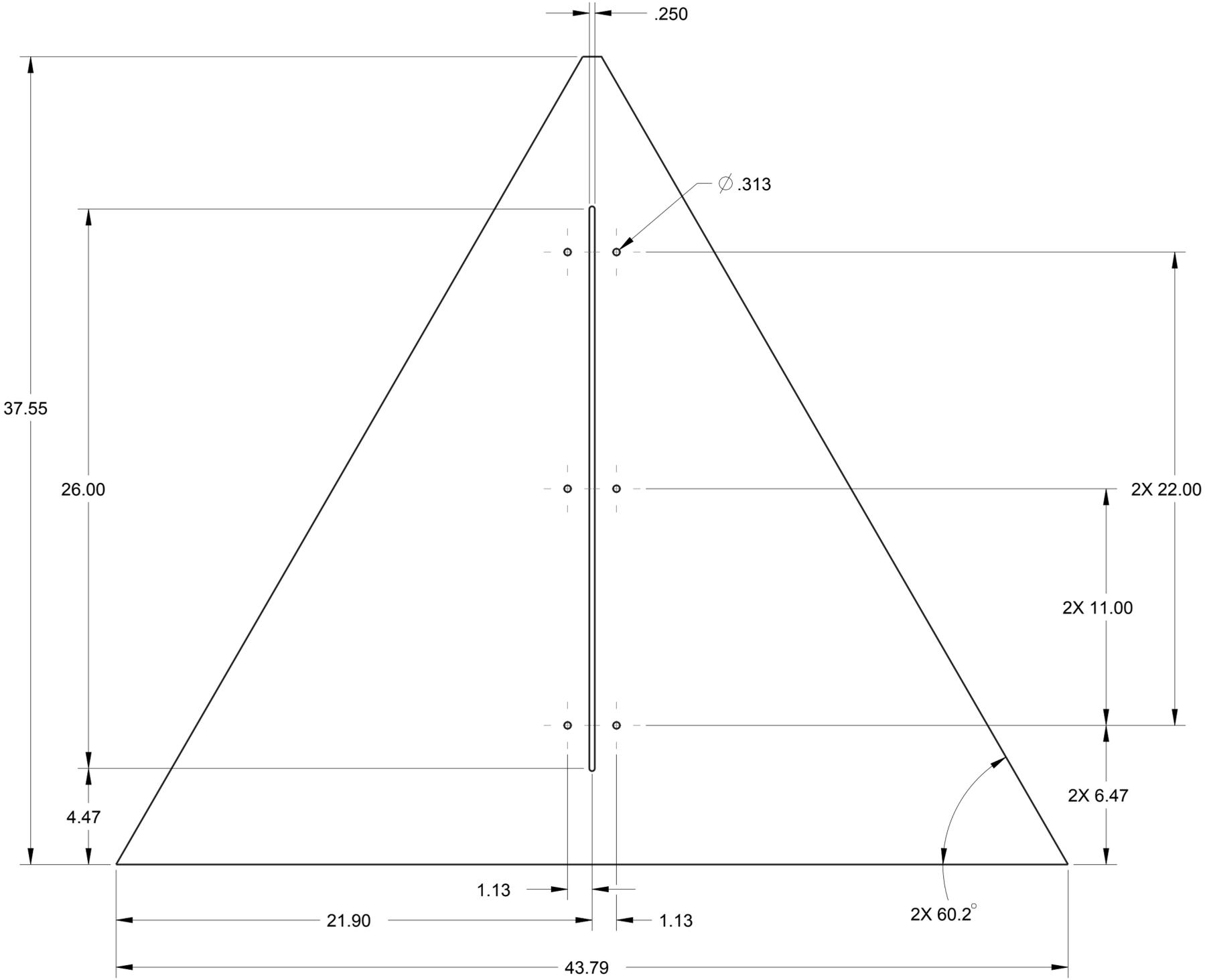
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NOTES:
 1. ITEM: GE-16189-01
 2. MATERIAL: 1/2" THICK PLYWOOD.
 3. QTY: 1

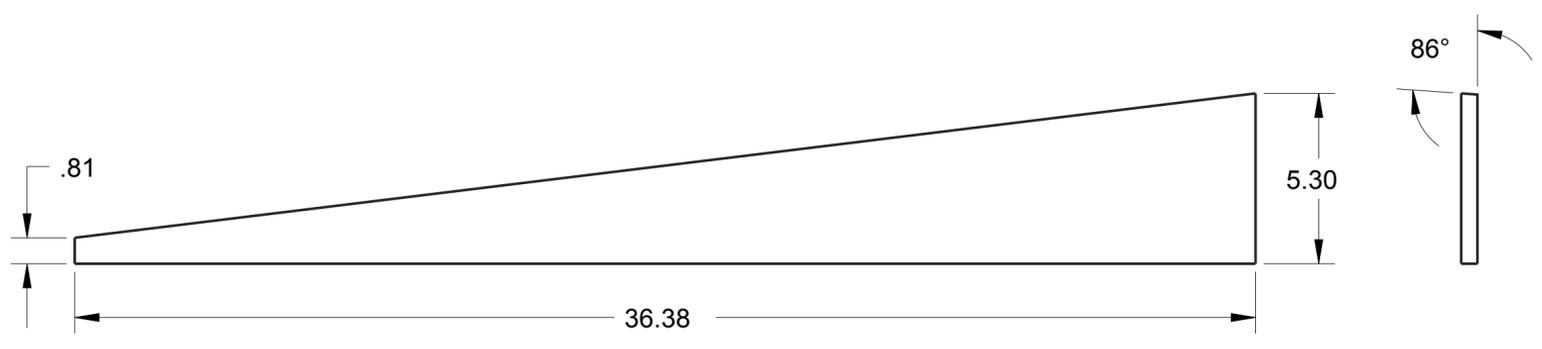
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- .1			DRAWN BY	DATE
			CHECKED BY	DATE
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TITLE: BATTER RAMP, CORNER		SCALE 1:8	SHEET 2 OF 3	
PROJECT		MODEL NAME	ISSUE	
DO NOT SCALE		GE-16189		

1

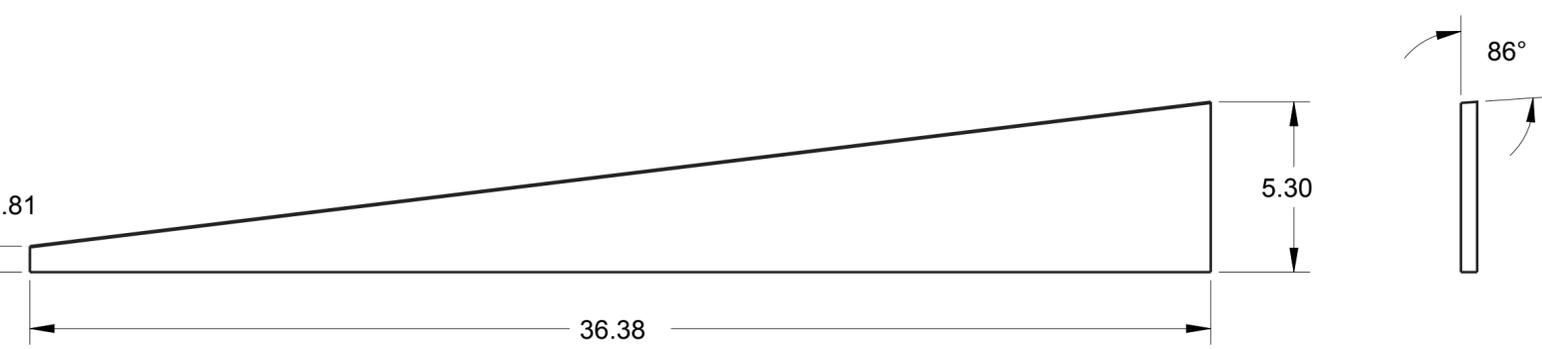
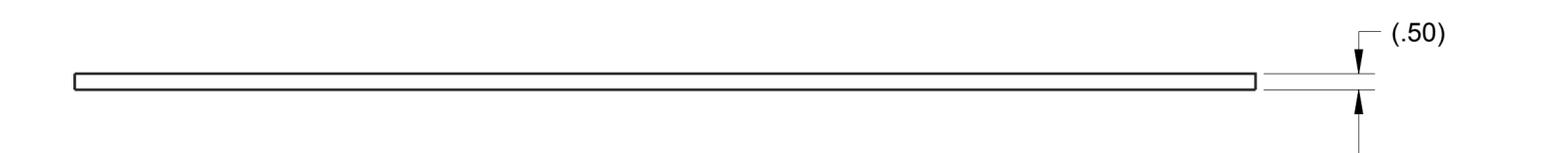
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NOTES:
 1. ITEM: GE-16189-02
 2. MATERIAL: 1/2" THICK PLYWOOD.
 3. QTY: 1



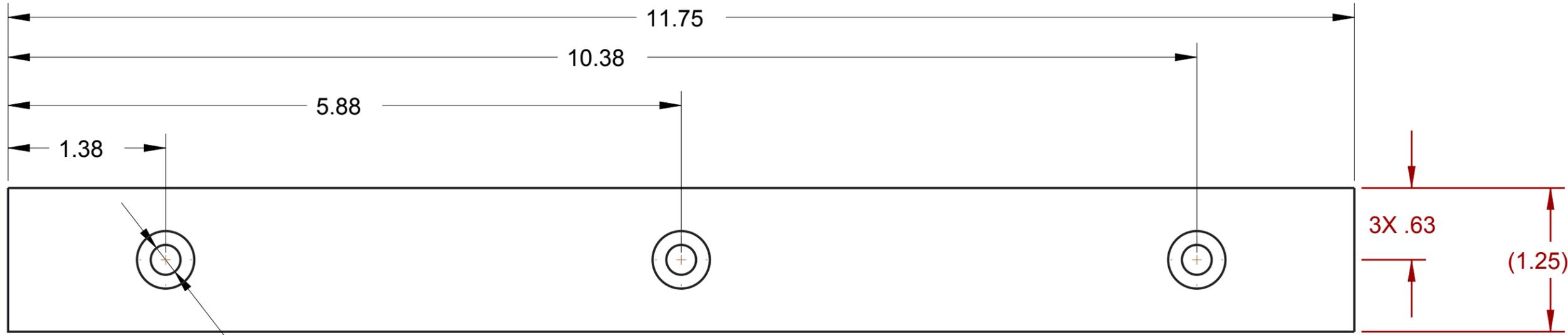
NOTES:
 1. ITEM: GE-16189-03
 2. MATERIAL: 1/2" THICK PLYWOOD.
 3. QTY: 1



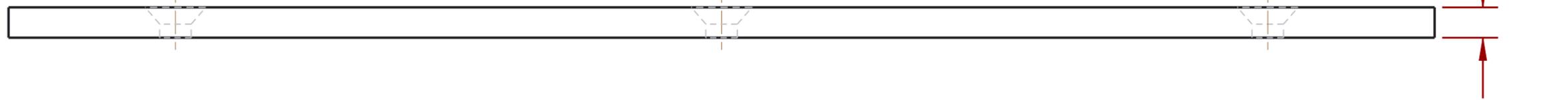
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX +/- 0.1 .XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1		DRAWN BY	DATE	
		CHECKED BY	DATE	
	APPROVED BY	DATE	SCALE 1:8	SHEET 3 OF 3
	TITLE: BATTER RAMP, CORNER		PROJECT	MODEL NAME: GE-16189
DO NOT SCALE			ISSUE	

MODEL NAME
GE-16190

TITLE
Ballast, CDF Platform



3X \varnothing .26 THRU
 \surd \varnothing .50 X 82°



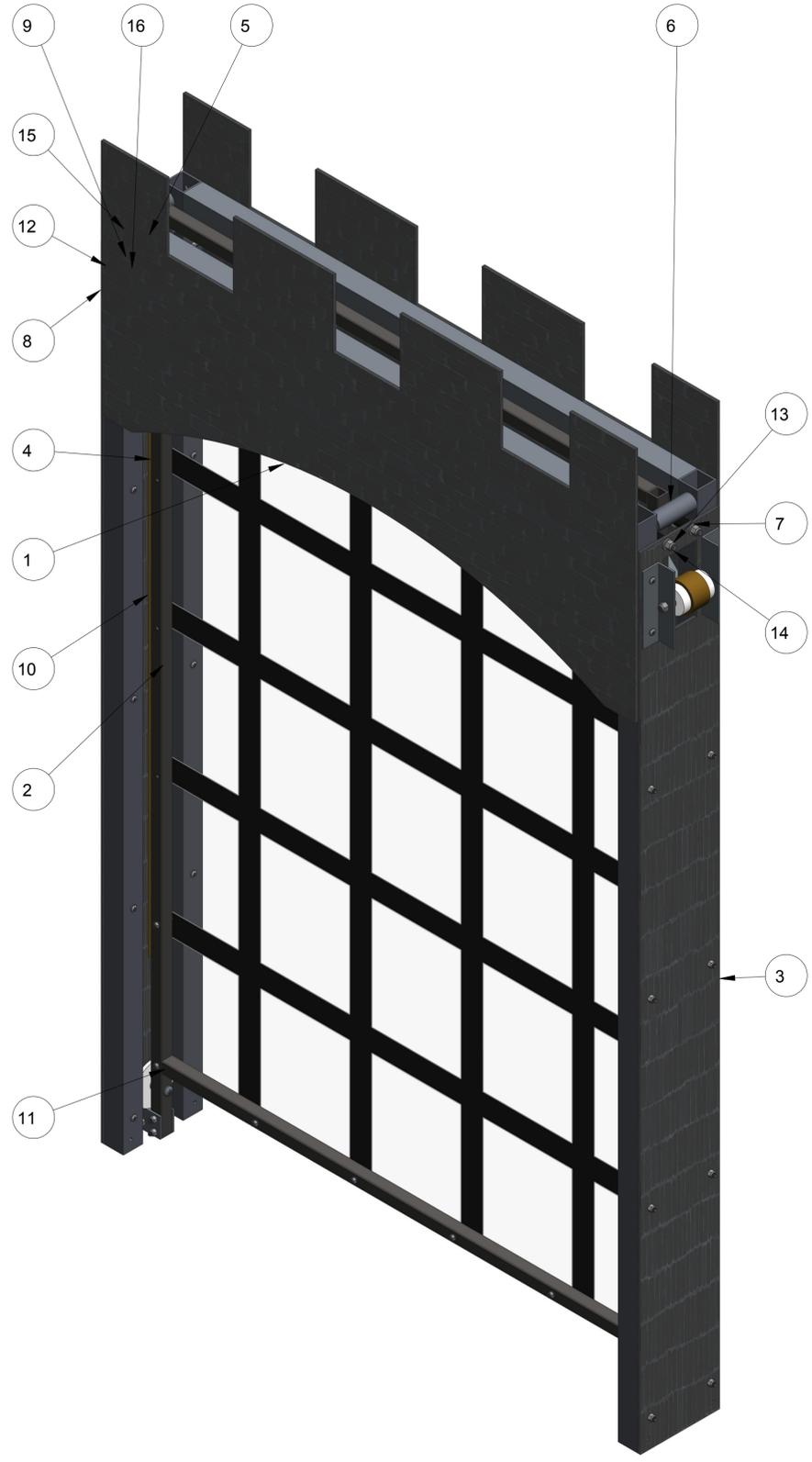
NOTE

Material: 1018 Cold Rolled Steel Rectangle, .25" x 1.25"
 Scale: 1:1
 Remove all sharp edges and burrs

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Ballast, CDF Platform		
PROJECT	MODEL NAME GE-16190	ISSUE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16169	2	portcullis crenellations	See Drawing
2	GE-16196	2	portcullis, frame	See Drawing
3	GE-16197	2	side plastic, portcullis	See Drawing
4	GE-16198	1	portcullis, door assembly	See Drawing
5	GE-16202	4	bearing, 1.125 od	See Drawing
6	GE-16204	2	upper roller assembly	See Drawing
7	GE-16206	4	bearing standoff	See Drawing
8	GE-16207	4	angle, spring	See Drawing
9	GE-16208	2	spool	See Drawing
10	GE-16209	2	spring, constant force	See Drawing
11	HW-00087	24	nut, nylock 1/4-20	Hardware
12	HW-00089	24	1/4"-20 Machine Screw, 2.5" Long	Hardware
13	HW-00097	16	nut, nylock 3/8-16	Hardware
14	HW-00112	4	Pan Head, 3/8"-16 x 2.5	Hardware
15	HW-00113	4	Washer - 3/8"-16	Hardware
16	HW-00114	4	3/8"-16 Threaded Rod, 5.125"	Hardware

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANGLE +/- 1</small>	
TITLE: Portcullis, Upper Assembly		SCALE 3:16 SHEET 1 OF 5
PROJECT	MODEL NAME	ISSUE
GE-16195		

DO NOT SCALE

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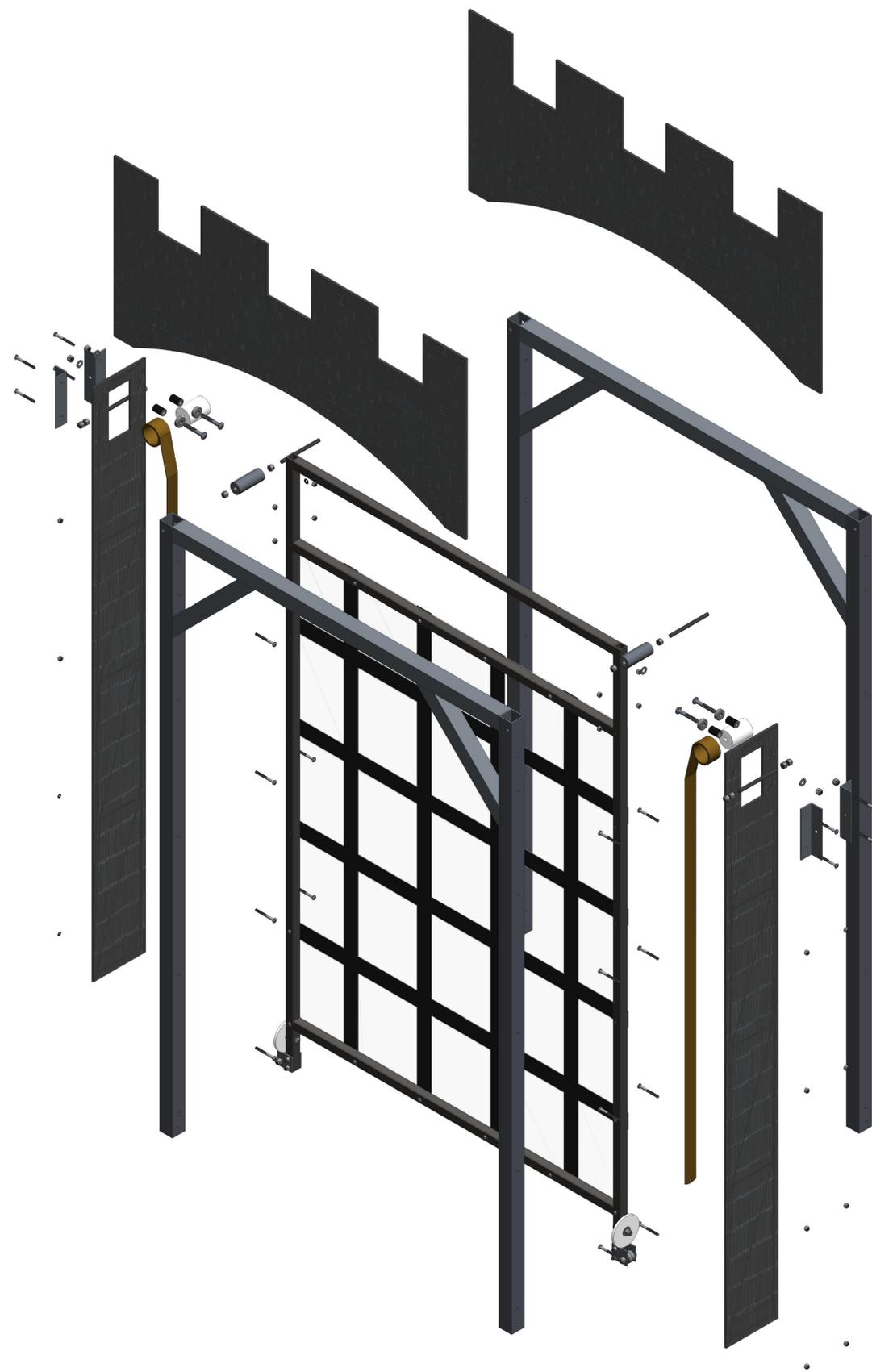
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MODEL NAME: GE-16195 TITLE: Portcullis, Upper Assembly



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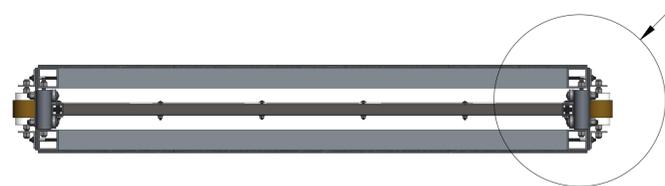
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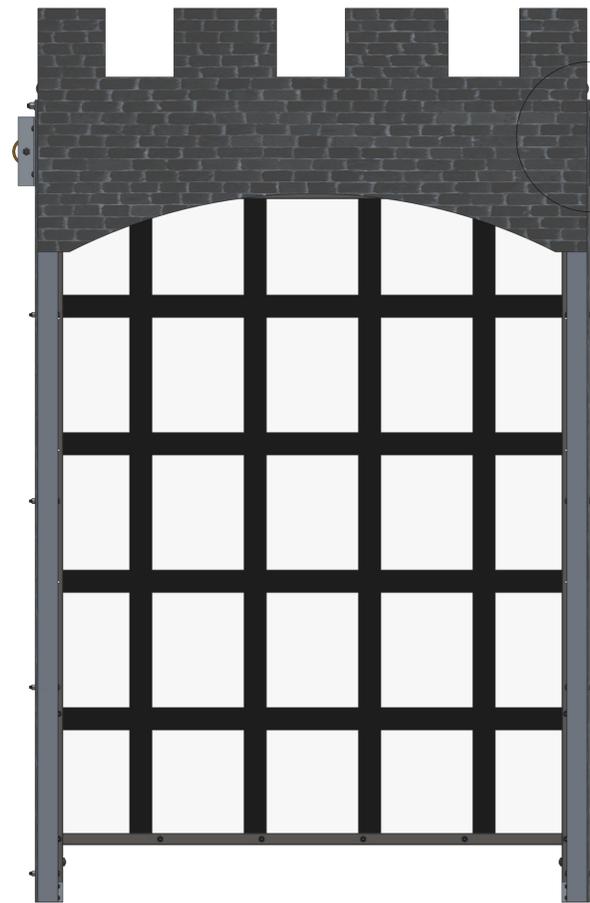
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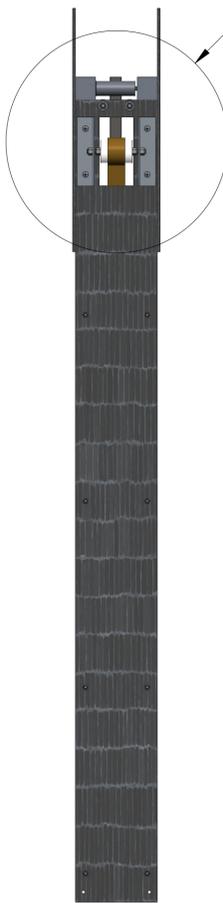
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. .XXX ± 0.1 .XX ± 0.01 X.XXX ± 0.001 ANG ± .1</small>	TITLE: Portcullis, Upper Assembly PROJECT: GE-16195 MODEL NAME: GE-16195 ISSUE: SHEET 2 OF 5 SCALE: 9:64 DO NOT SCALE	



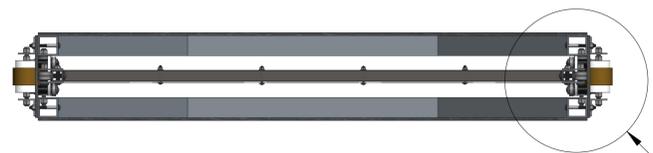
SEE DETAIL A



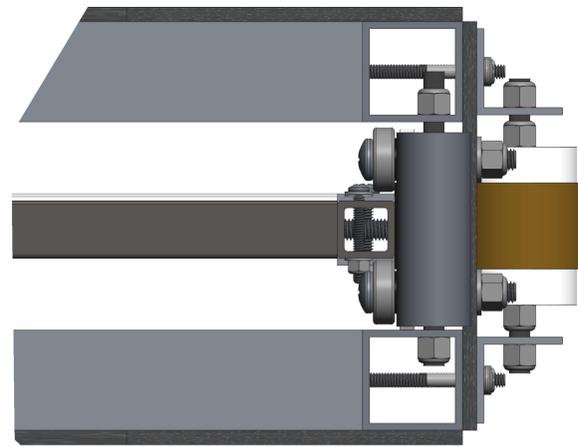
SEE DETAIL B



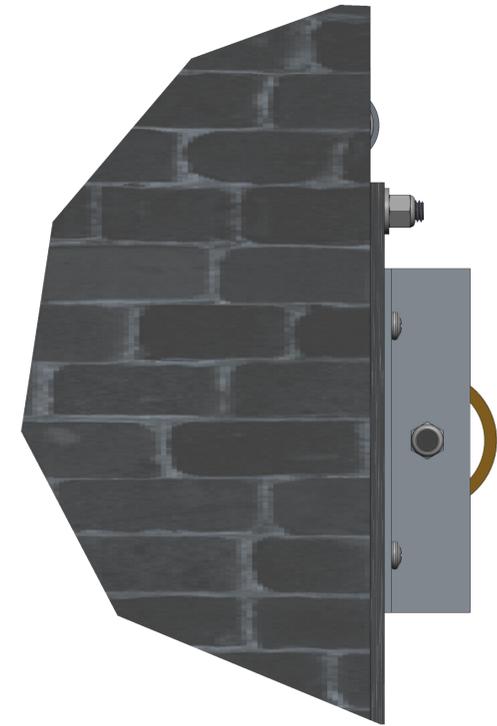
SEE DETAIL C



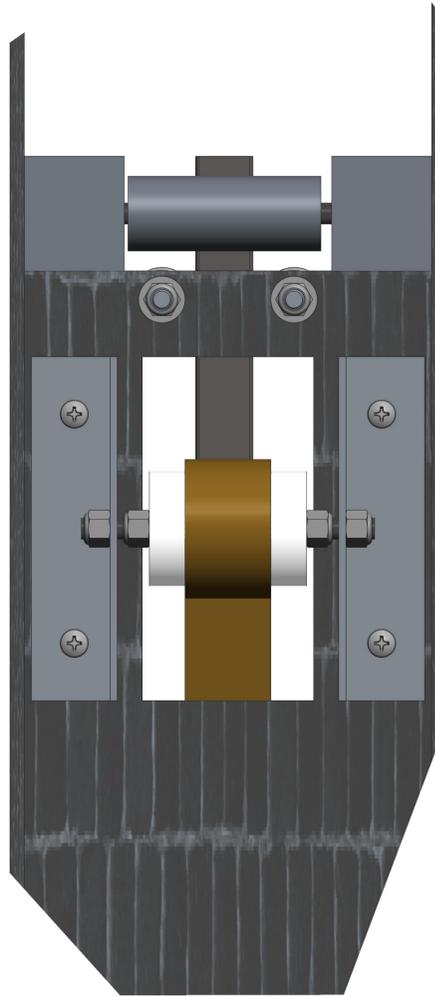
SEE DETAIL D



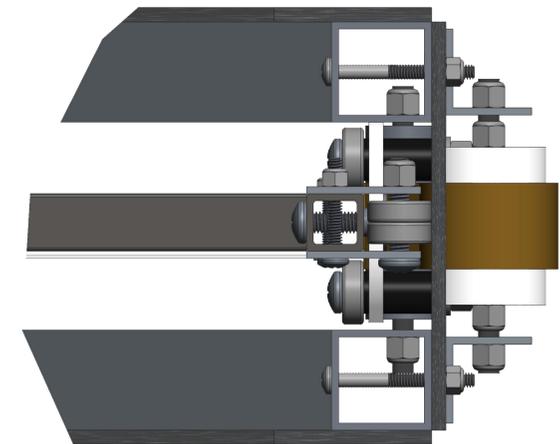
DETAIL A
SCALE 5:8
TOP



DETAIL B
SCALE 5:8
FRONT



DETAIL C
SCALE 5:8
SIDE

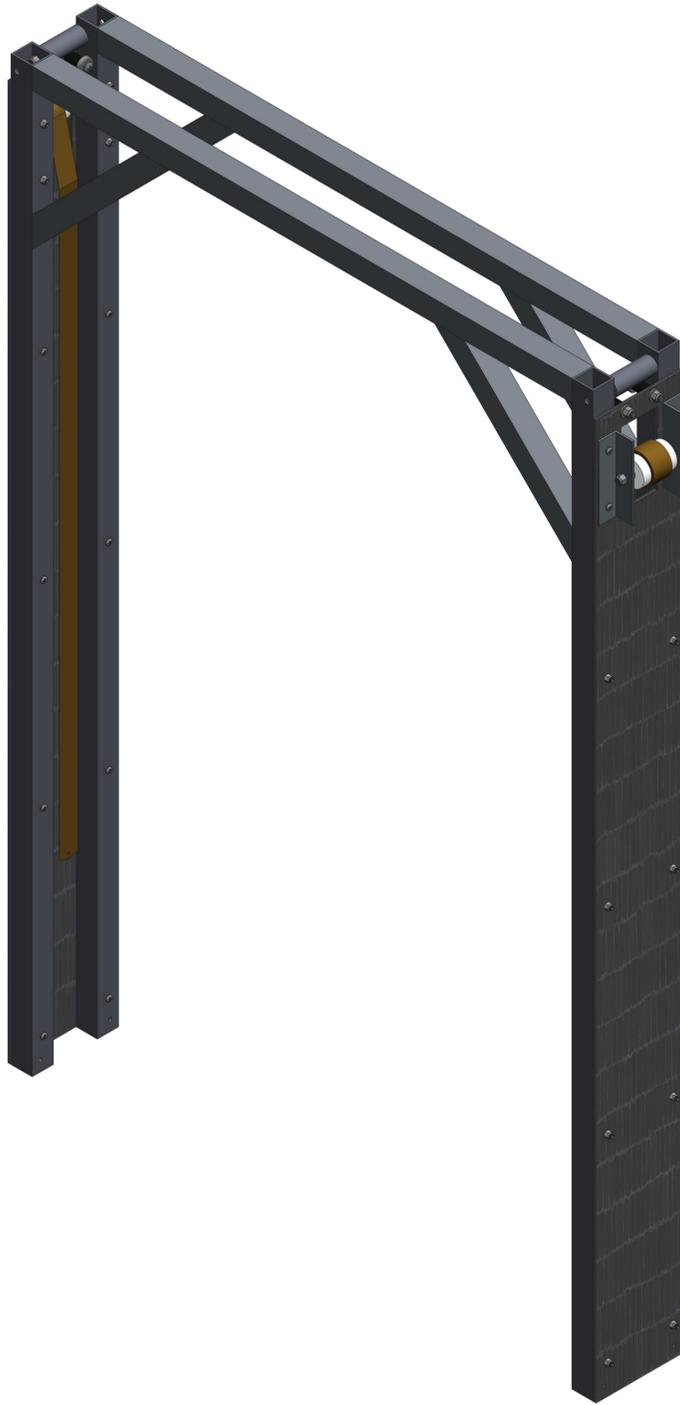
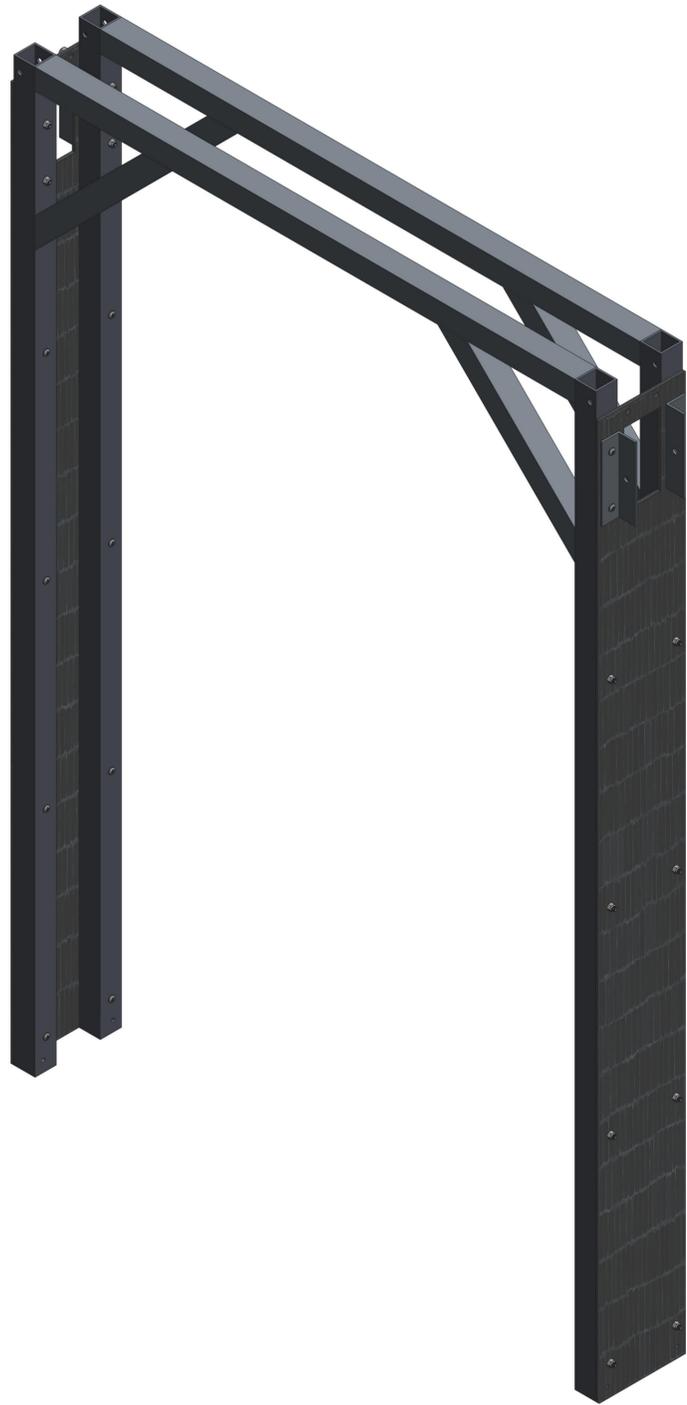


DETAIL D
SCALE 5:8
BOTTOM

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 ANG ± 1</small>	
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TITLE Portcullis, Upper Assembly		MODEL NAME GE-16195	ISSUE
PROJECT		DO NOT SCALE	

NOTE: Using the 3/8"-16 hardware, connect the Upper Rollers, the plastic spool and the springs.

NOTE: Using #10-24 hardware, secure the spring to the side of the Portcullis Door. Make sure tha the door can move up and down freely. It should take between 5 and 6 pounds of force to lift the door.

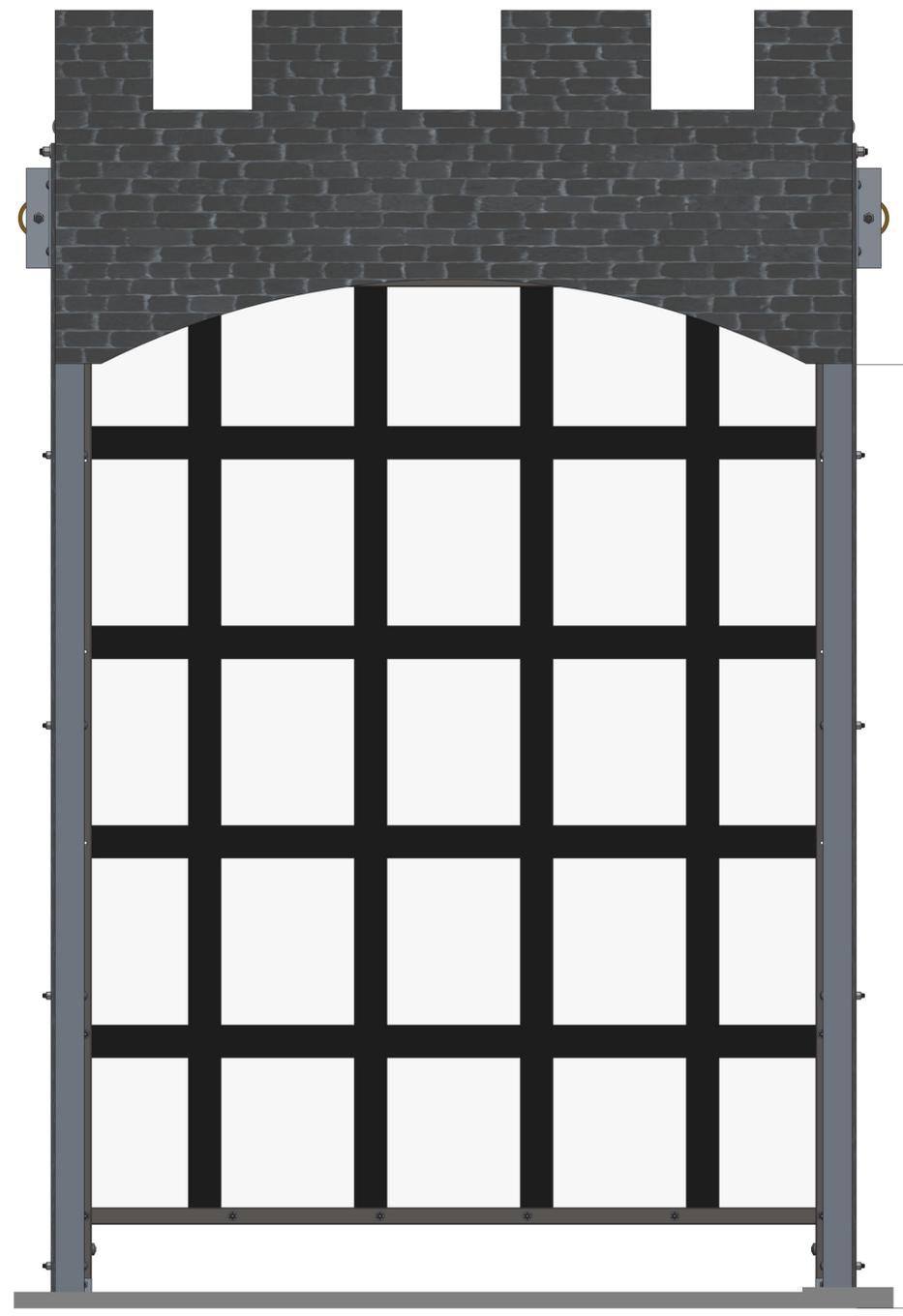
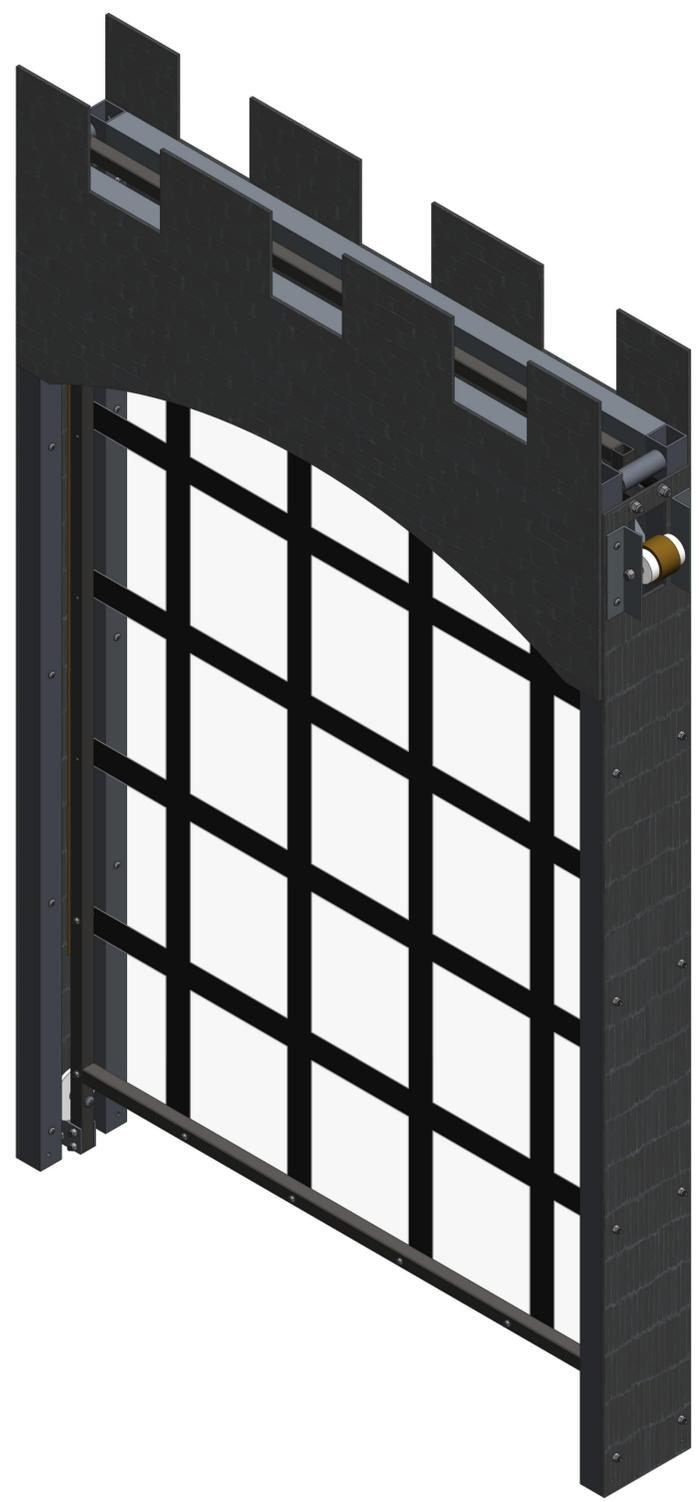


Secure Polycarbonate to the Portcullis Frames with 1/4"-20 Hardware as shown. Remember to place the Spring Carriage Angle before tightening down hardware.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	SCALE 3:16 SHEET 4 OF 5	
TITLE: Portcullis, Upper Assembly PROJECT: _____ MODEL NAME: GE-16195 ISSUE: _____		
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.01 ANG +/- 1 DO NOT SCALE		

1 2 3 4 5 6 7 8

MODEL NAME: GE-16195 TITLE: Portcullis, Upper Assembly



56.75

NOTE: Connect the Portcullis Crenellations using Hook and Loop fastener.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DEC +/- 0.1 XXX +/- 0.01 XXXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	<p>DRAWN BY: _____ DATE: _____</p> <p>CHECKED BY: _____ DATE: _____</p> <p>APPROVED BY: _____ DATE: _____</p>
	<p>SCALE 3:16 SHEET 5 OF 5</p>
	<p>TITLE: Portcullis, Upper Assembly</p>
	<p>PROJECT: _____ MODEL NAME: GE-16195 ISSUE: _____</p>

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MODEL NAME
GE-16196

TITLE
Frame, Portcullis

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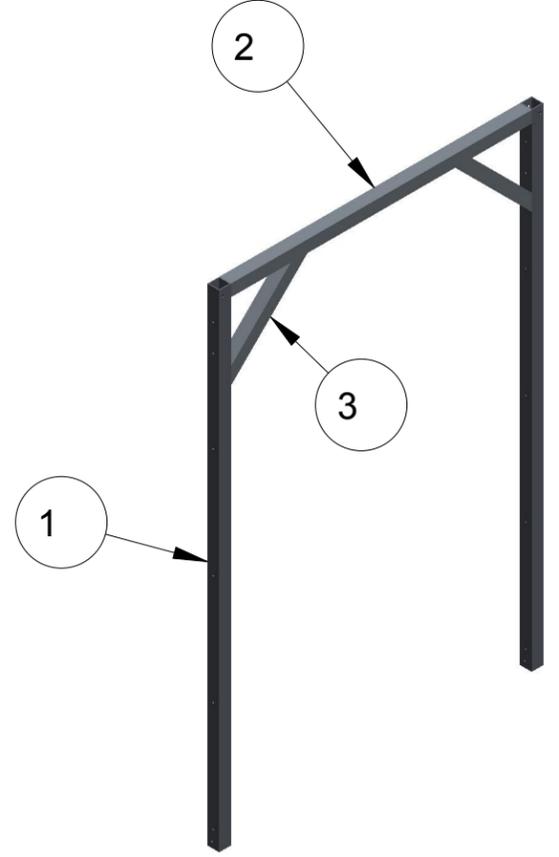
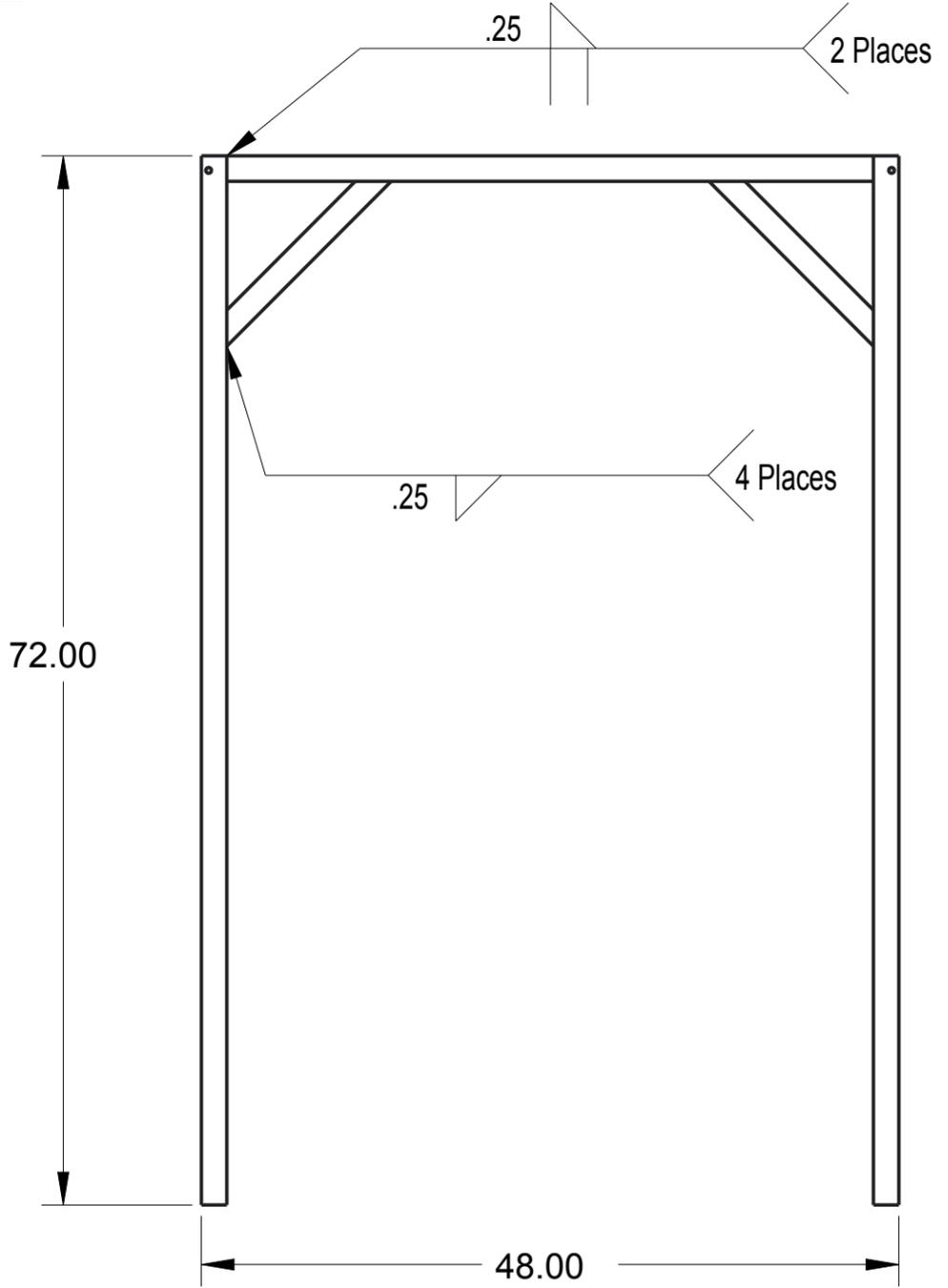
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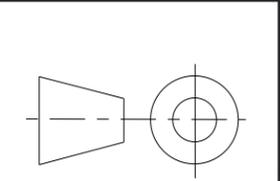
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ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16196-01	2	vertical
2	GE-16196-02	1	horizontal
3	GE-16196-03	2	support



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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APPROVED BY		DATE
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SHEET 1 OF 3		
TITLE Frame, Portcullis		
PROJECT	MODEL NAME GE-16196	ISSUE

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MODEL NAME
GE-16196

TITLE
Frame, Portcullis

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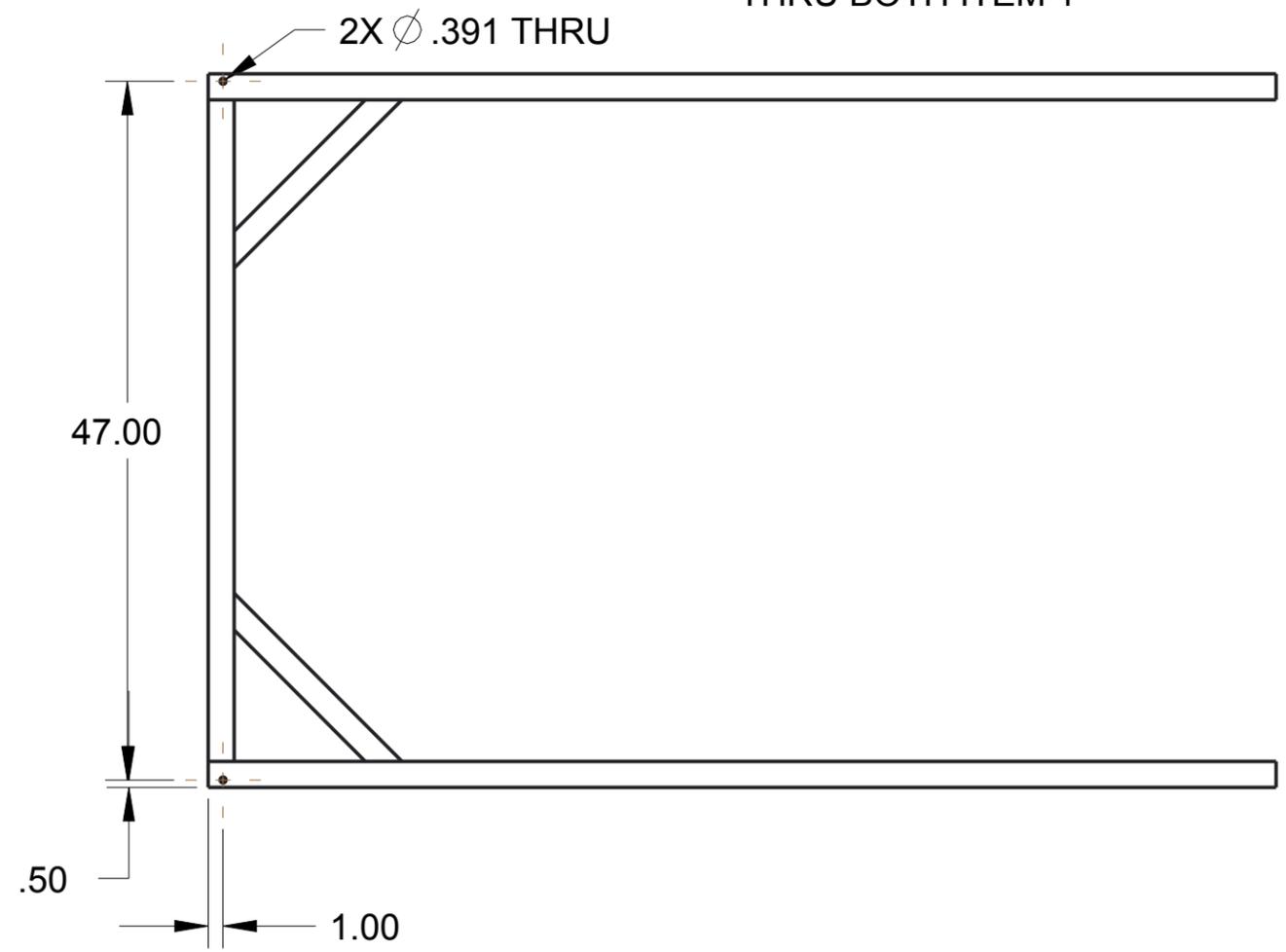
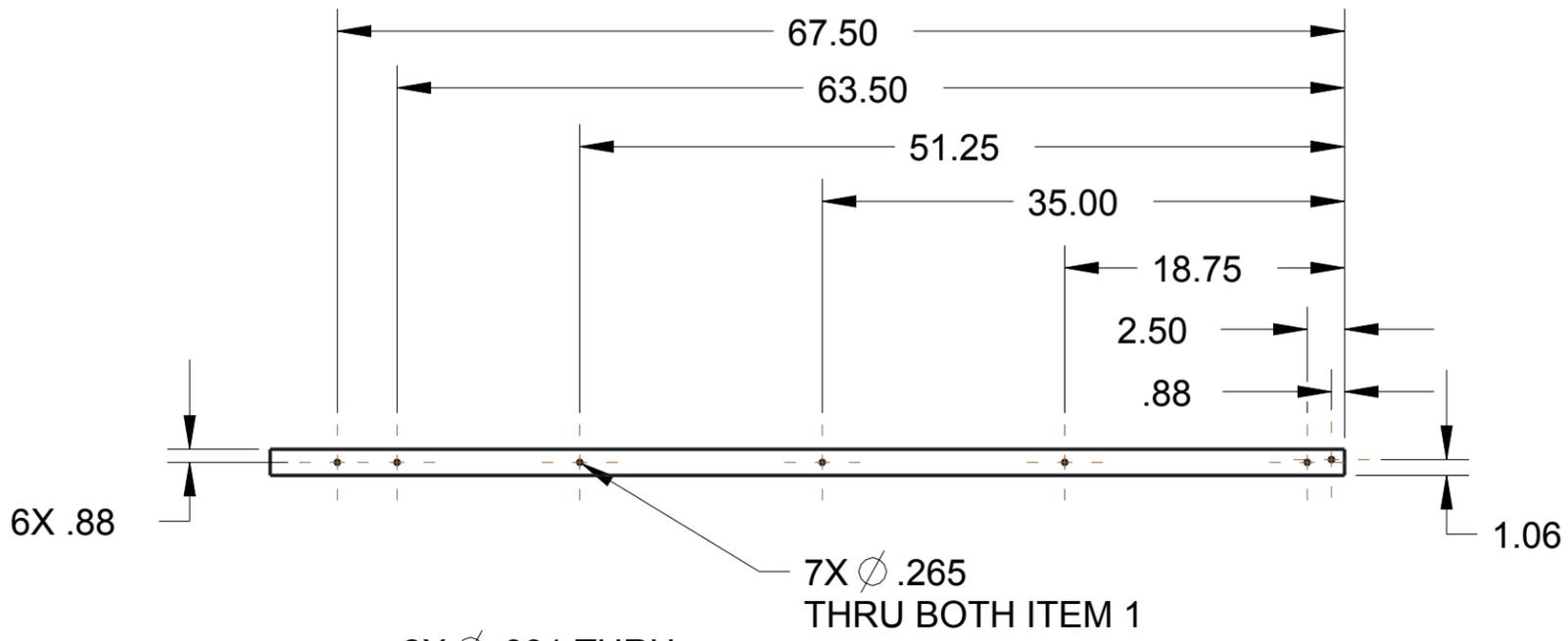
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE Frame, Portcullis	
	PROJECT	MODEL NAME GE-16196
DO NOT SCALE	ISSUE	

MODEL NAME
GE-16196

TITLE
Frame, Portcullis

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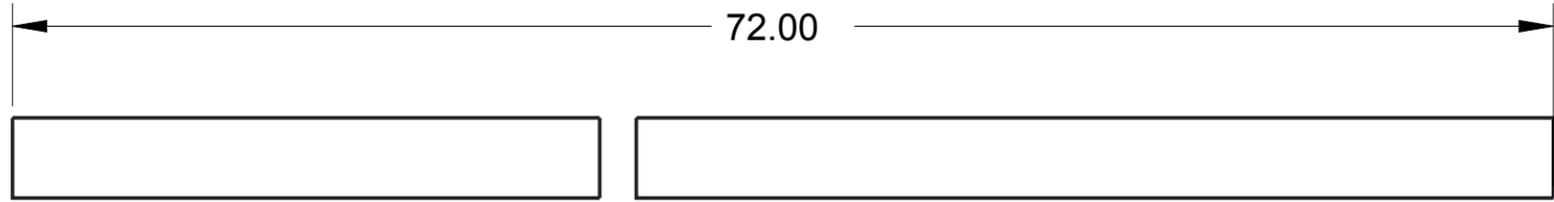
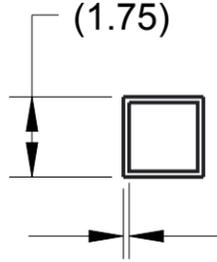
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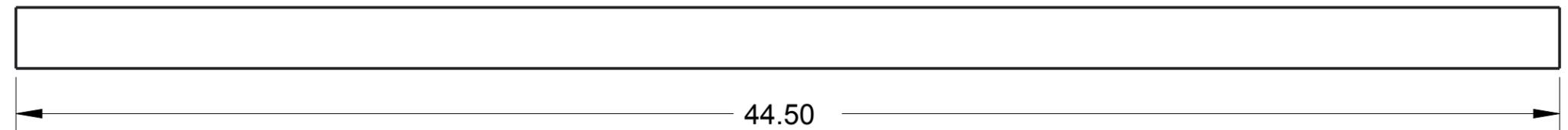
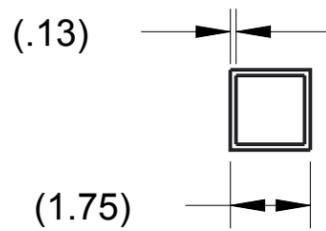
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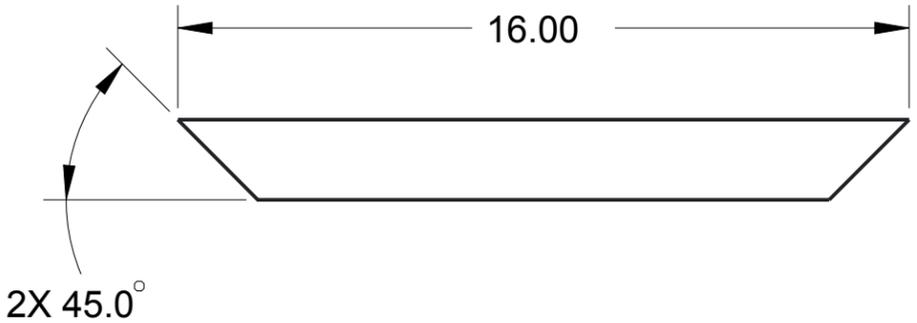
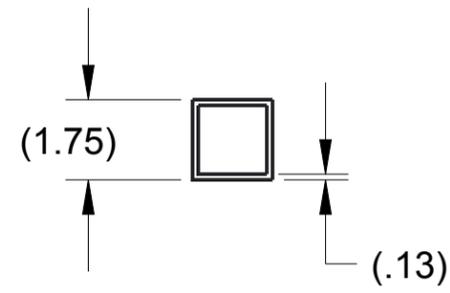
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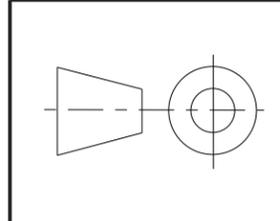
ITEM 1: VERTICAL
 MATERIAL: 1.75" X .125" SQUARE TUBING, 6063 ALUMINUM
 QTY: 2



ITEM 2: HORIZONTAL
 MATERIAL: 1.75" X .125" SQUARE TUBING, 6063 ALUMINUM
 QTY: 1



ITEM 3: SUPPORT
 MATERIAL: 1.75" X .125" SQUARE TUBING, 6063 ALUMINUM
 QTY: 2



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°
DO NOT SCALE



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SHEET 3 OF 3		
TITLE Frame, Portcullis		
PROJECT	MODEL NAME GE-16196	ISSUE

1

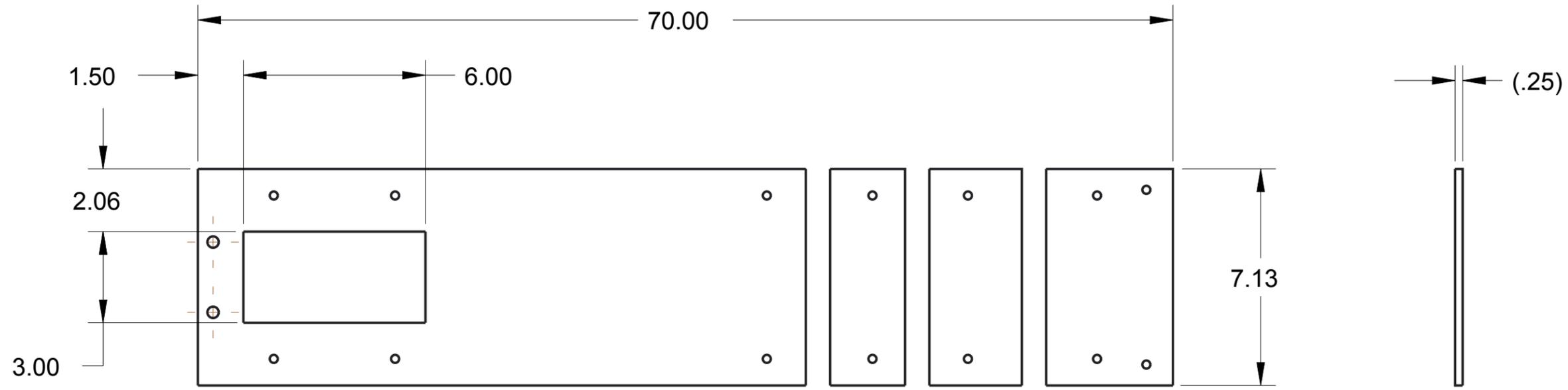
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MODEL NAME
GE-16197

TITLE
Side Plastic, Portcullis



- Notes:
1. Material: 1/4" clear polycarbonate
 2. Print to look like rock wall.
 3. Remove all burrs and sharp edges.

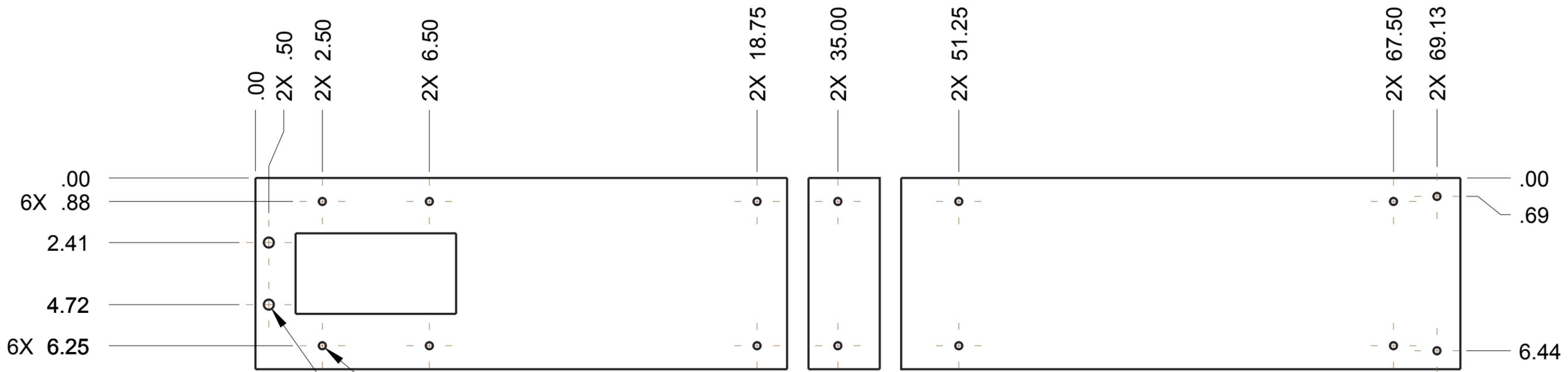
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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Side Plastic, Portcullis		
PROJECT		MODEL NAME GE-16197
ISSUE		

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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

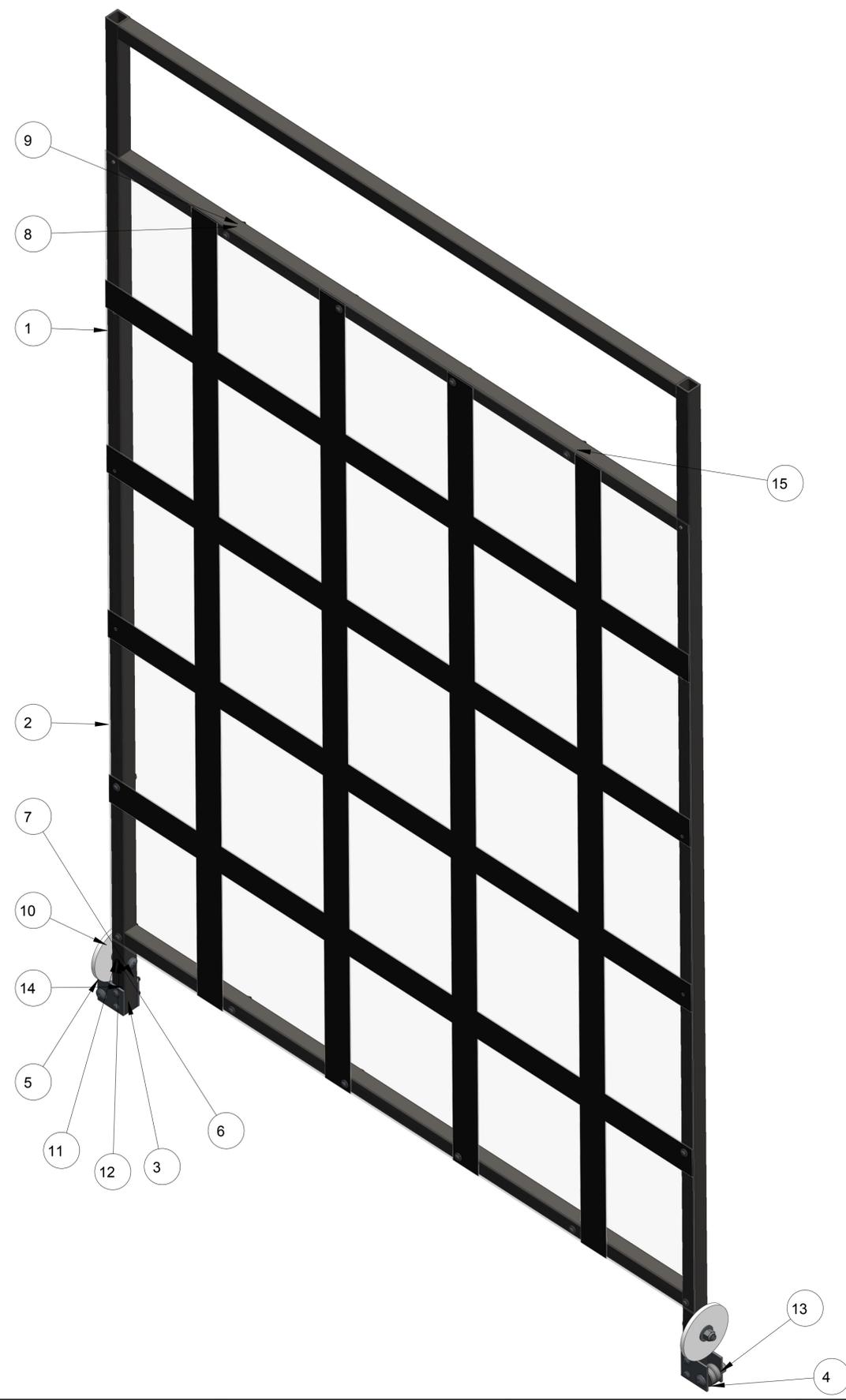
DO NOT SCALE

MODEL NAME
GE-16197

TITLE
Side Plastic, Portcullis



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		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE Side Plastic, Portcullis	
DO NOT SCALE		PROJECT 	MODEL NAME GE-16197 ISSUE



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16199	1	portcullis, door weldment	See Drawing
2	GE-16200	1	door plastic, portcullis	See Drawing
3	GE-16201	4	sideplate, roller	See Drawing
4	GE-16202	4	bearing, 1.125 od	See Drawing
5	GE-16203	2	plastic roller	See Drawing
6	GE-16210	2	.875" Flanged Roller Bearing	See Drawing
7	HW-00087	4	nut, nylock 1/4-20	Hardware
8	HW-00090	24	washer, #10	Hardware
9	HW-00092	12	nut, nylock, #10-24	Hardware
10	HW-00097	4	nut, nylock 3/8-16	Hardware
11	HW-00106	2	Spacer, .382" ID .5" OD, .125" Thick	Hardware
12	HW-00107	2	3/8"-16 Machine Screw, 2" Long	Hardware
13	HW-00108	2	3/8"-16 Machine Screw, 1.75" Long	Hardware
14	HW-00110	4	1/4"-20 Machine Screw, 1.75" Long	Hardware
15	HW-00111	12	#10-24 Machine Screw, 1.5" Long	Hardware

	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	SCALE 1:16 SHEET 1 OF 4
	TITLE: Portcullis, Door Assembly
	PROJECT: _____ MODEL NAME: GE-16198 ISSUE: _____
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXXX +/- 0.001 ANG +/- 1 DO NOT SCALE	

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MODEL NAME: GE-16198 TITLE: Portcullis, Door Assembly

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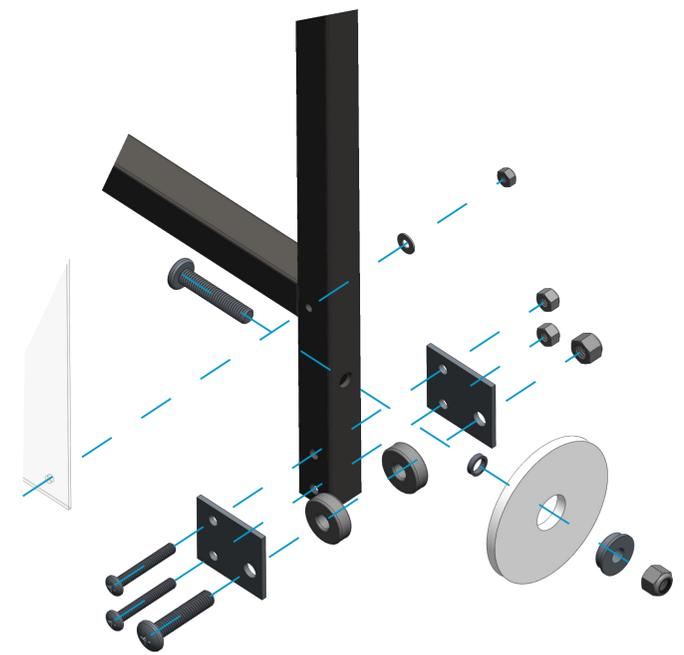
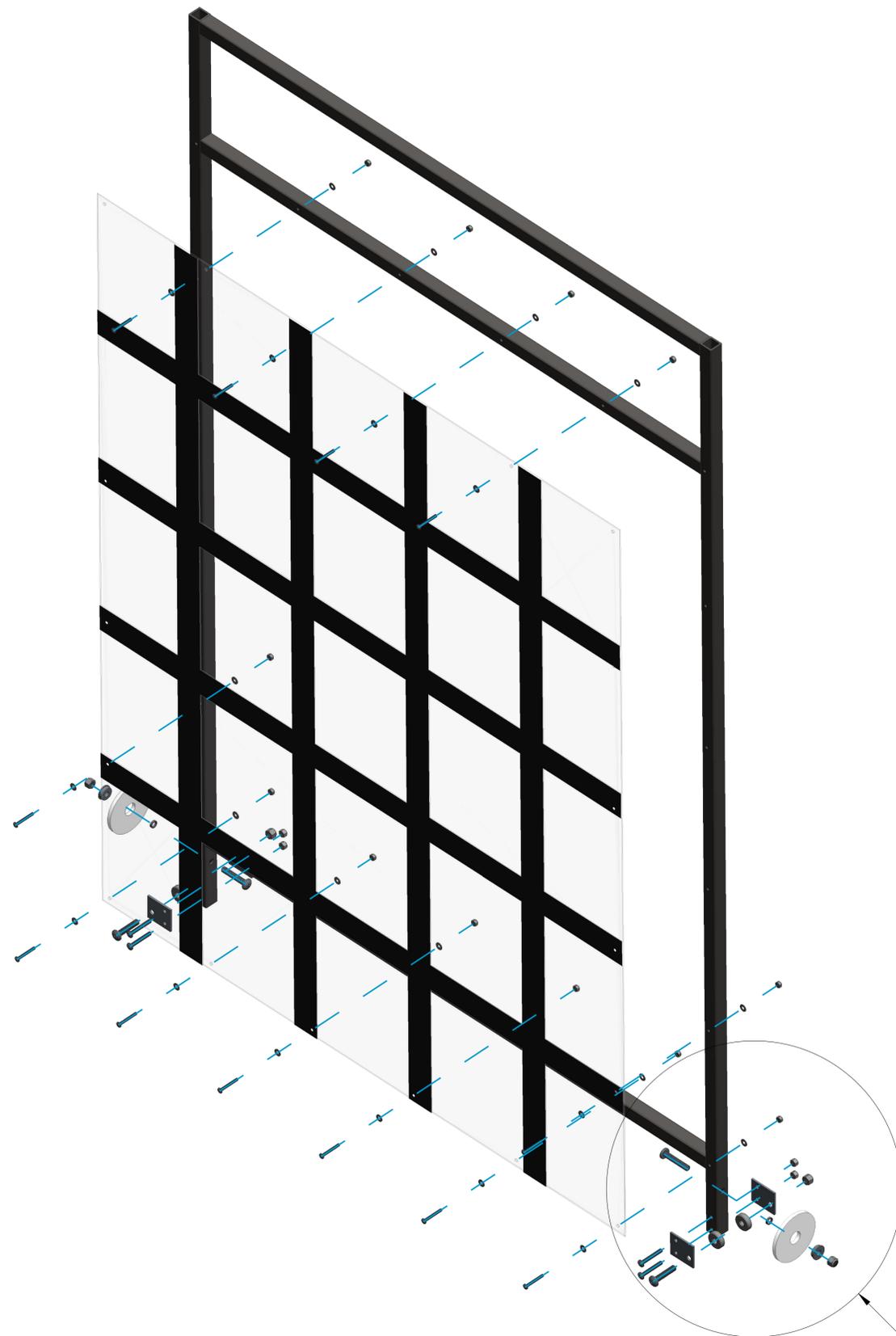
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DETAIL A
SCALE 1:2

SEE DETAIL A

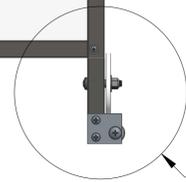
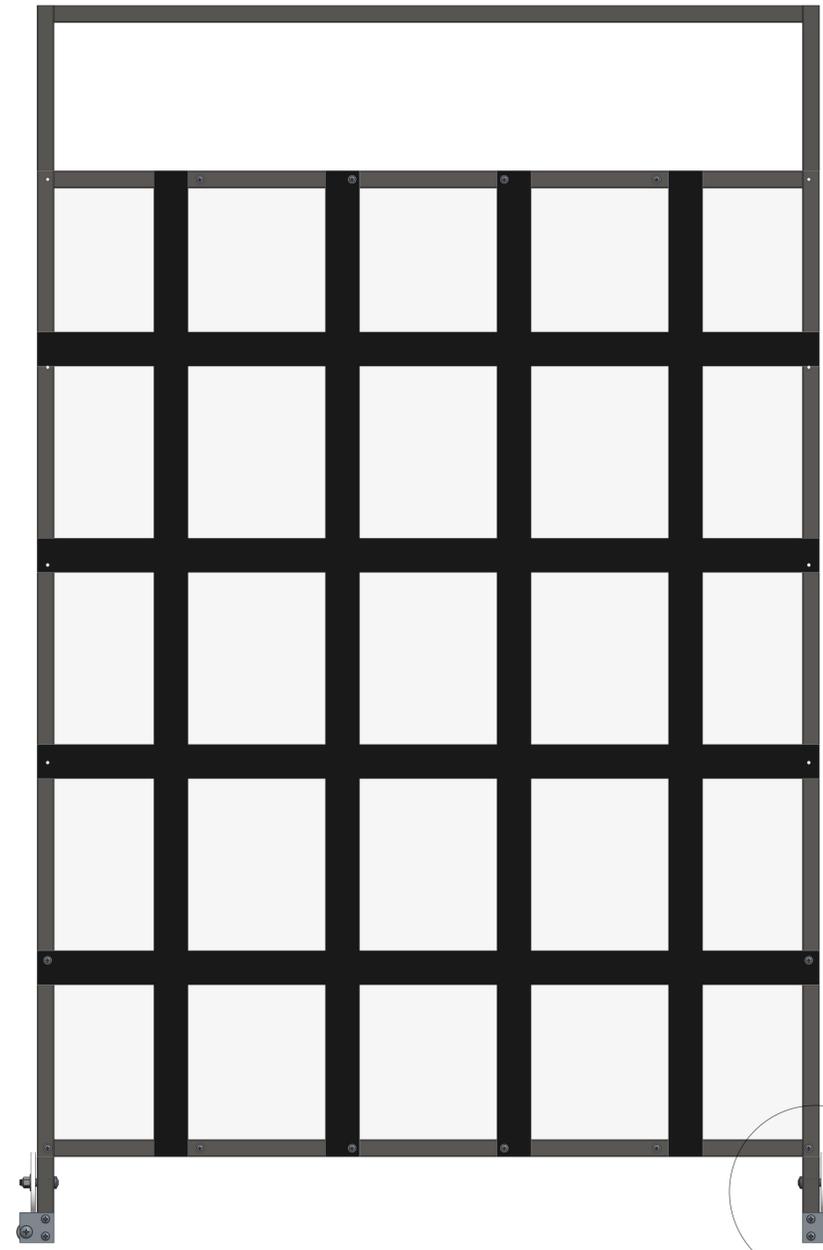
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TITLE Portcullis, Door Assembly		SCALE 7:32 SHEET 2 OF 4
PROJECT GE-16198	MODEL NAME GE-16198	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± 1
DO NOT SCALE

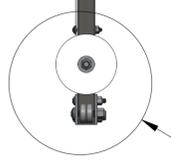
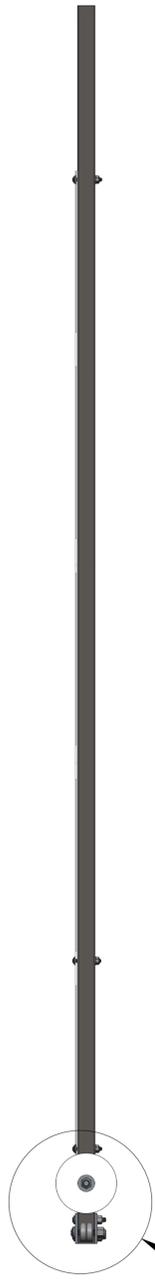
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1 2 3 4 5 6 7 8

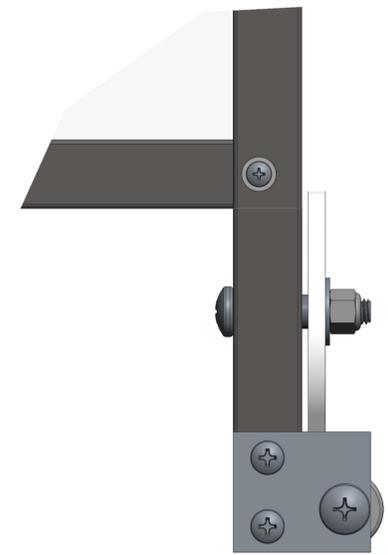
MODEL NAME GE-16198 TITLE Portcullis, Door Assembly



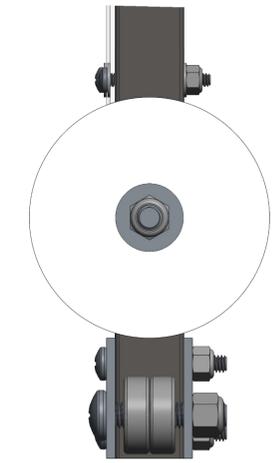
SEE DETAIL B



SEE DETAIL C



DETAIL B
SCALE 3:4



DETAIL C
SCALE 3:4

			DRAWN BY	DATE
	<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 XXX +/- 0.001 ANG +/- 1</small>		CHECKED BY	DATE
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	TITLE Portcullis, Door Assembly		SCALE 3:16	SHEET 3 OF 4
PROJECT			MODEL NAME	ISSUE
DO NOT SCALE			GE-16198	

1 2 3 4 5 6 7 8

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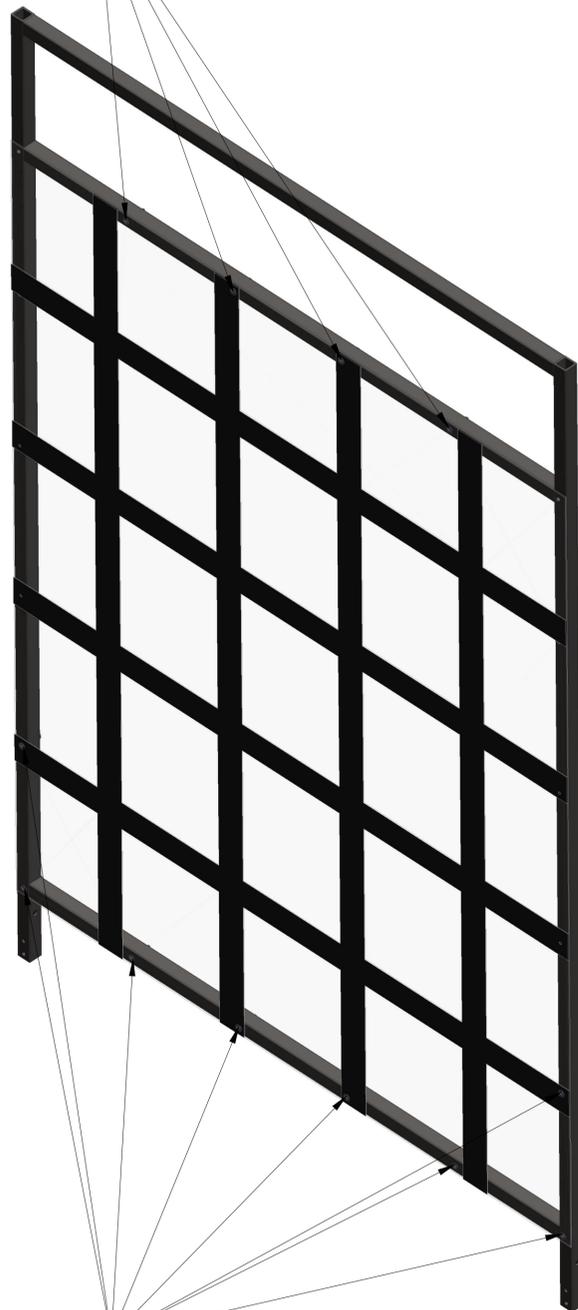
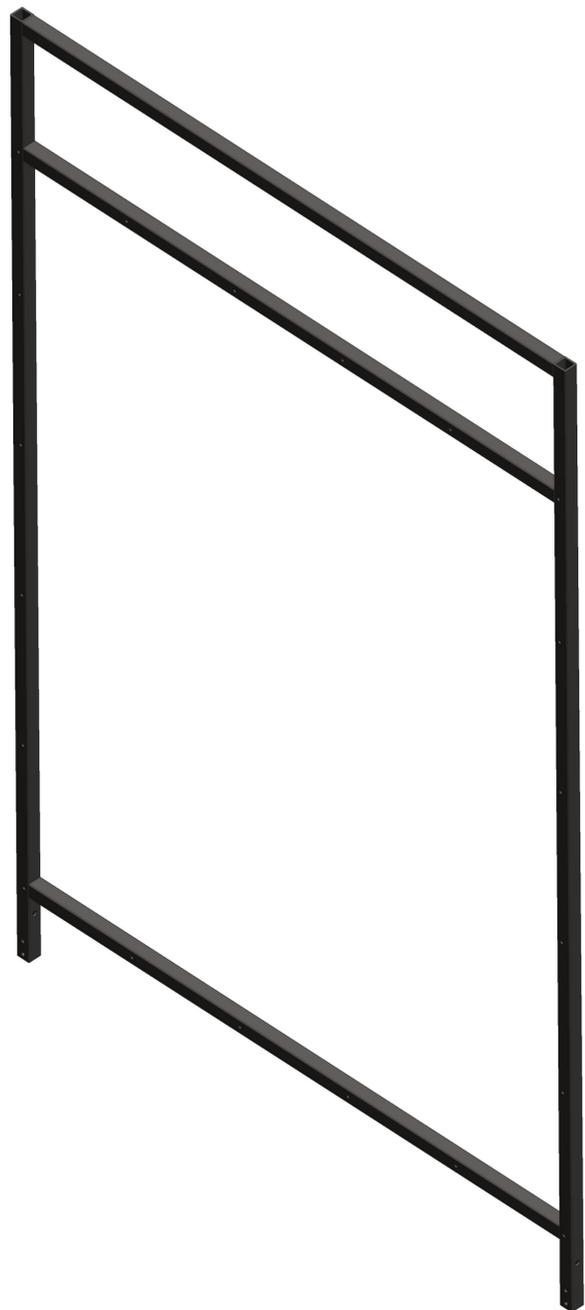
E

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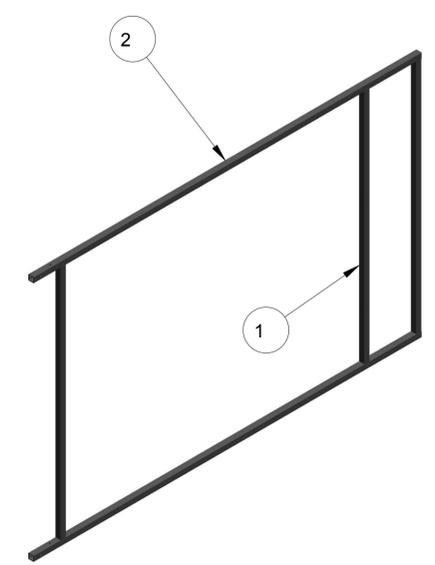
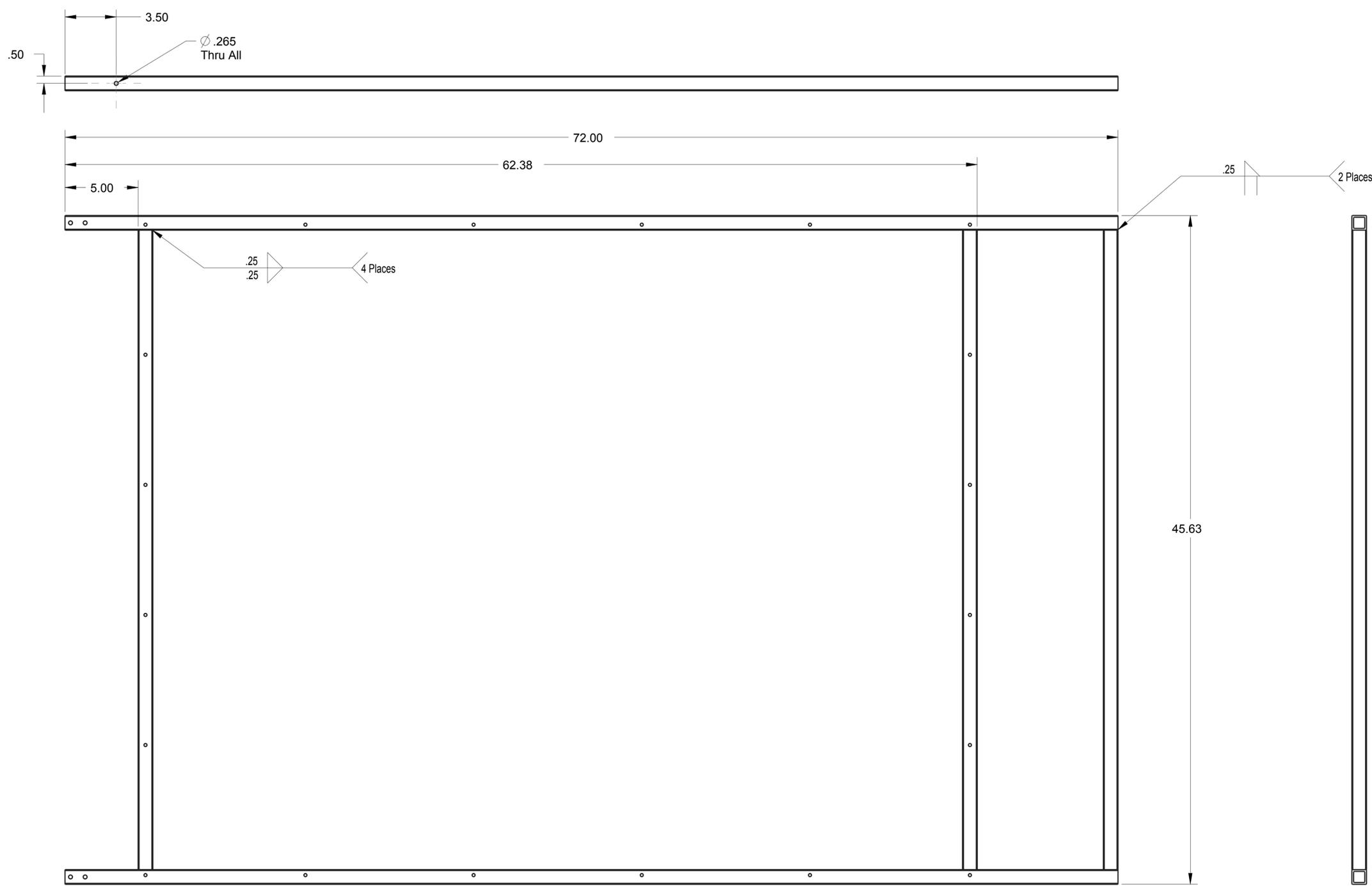
NOTE: Connect Portcullis Polycarb using #10-24 Hardware in the four (4) center holes along the top rail.

NOTE: Secure the bottom rollers using the 3/8"-16 and 1/4"-20 Hardware. Be sure that all bearings roll smoothly after mounting them.

NOTE: Secure the bottom of the Portcullis Polycarbonate using #10-24 hardware.

NOTE: Secure the rest of the Polycarbonate with 3/16" Aluminum rivets.

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. .XXX +/- 0.1 .XX +/- 0.01 .X +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
	<p>TITLE: Portcullis, Door Assembly</p> <p>PROJECT: _____</p> <p>MODEL NAME: GE-16198</p> <p>ISSUE: _____</p>		SCALE 3:16

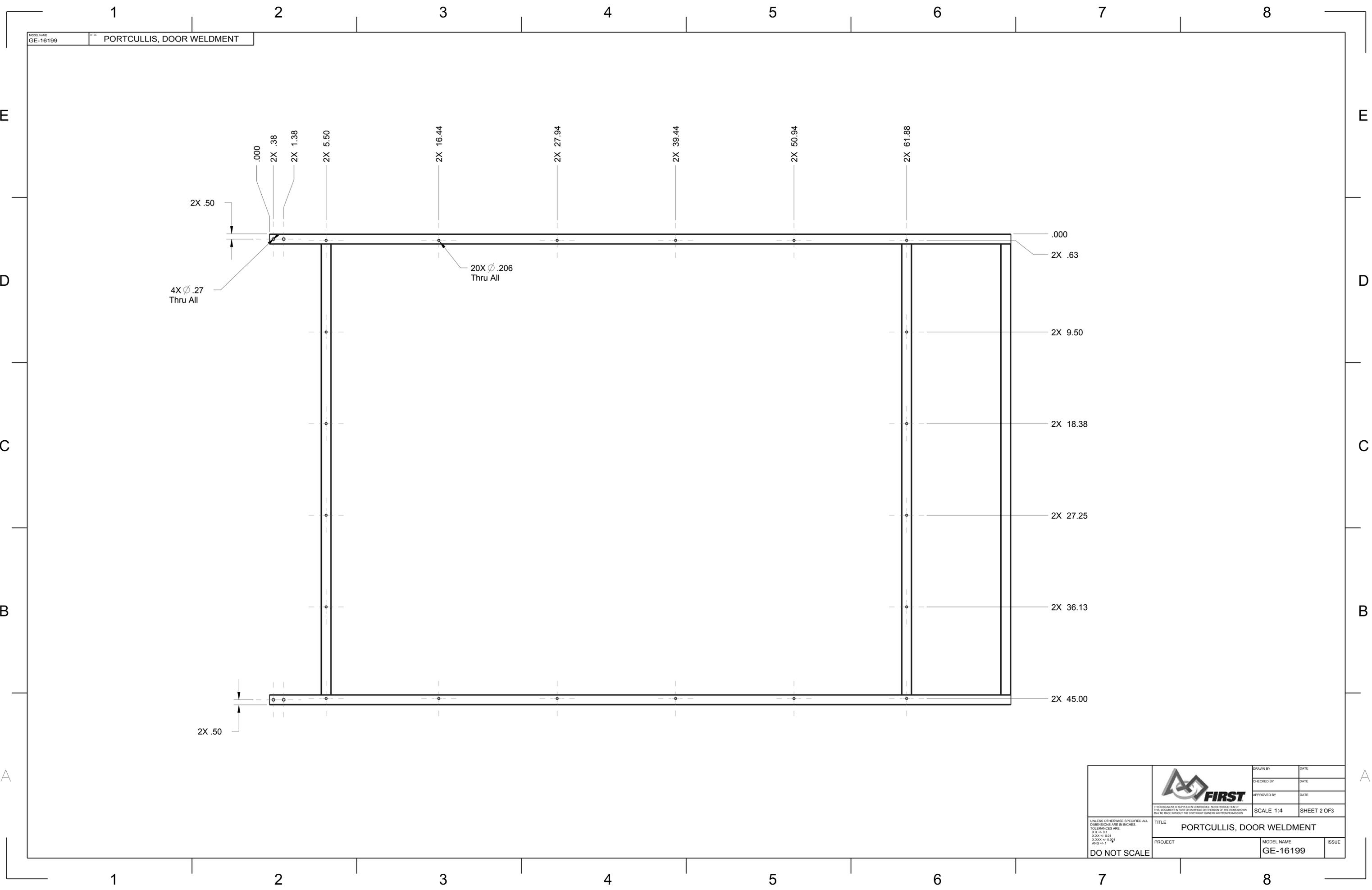


SCALE 1:12

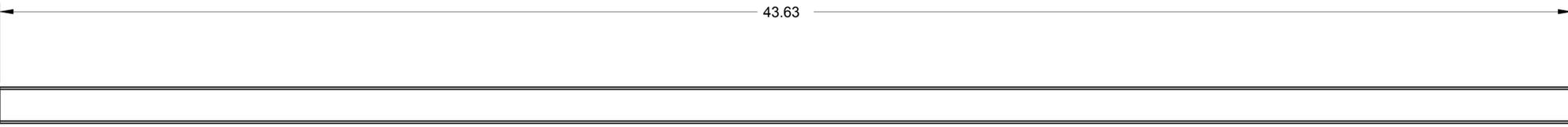
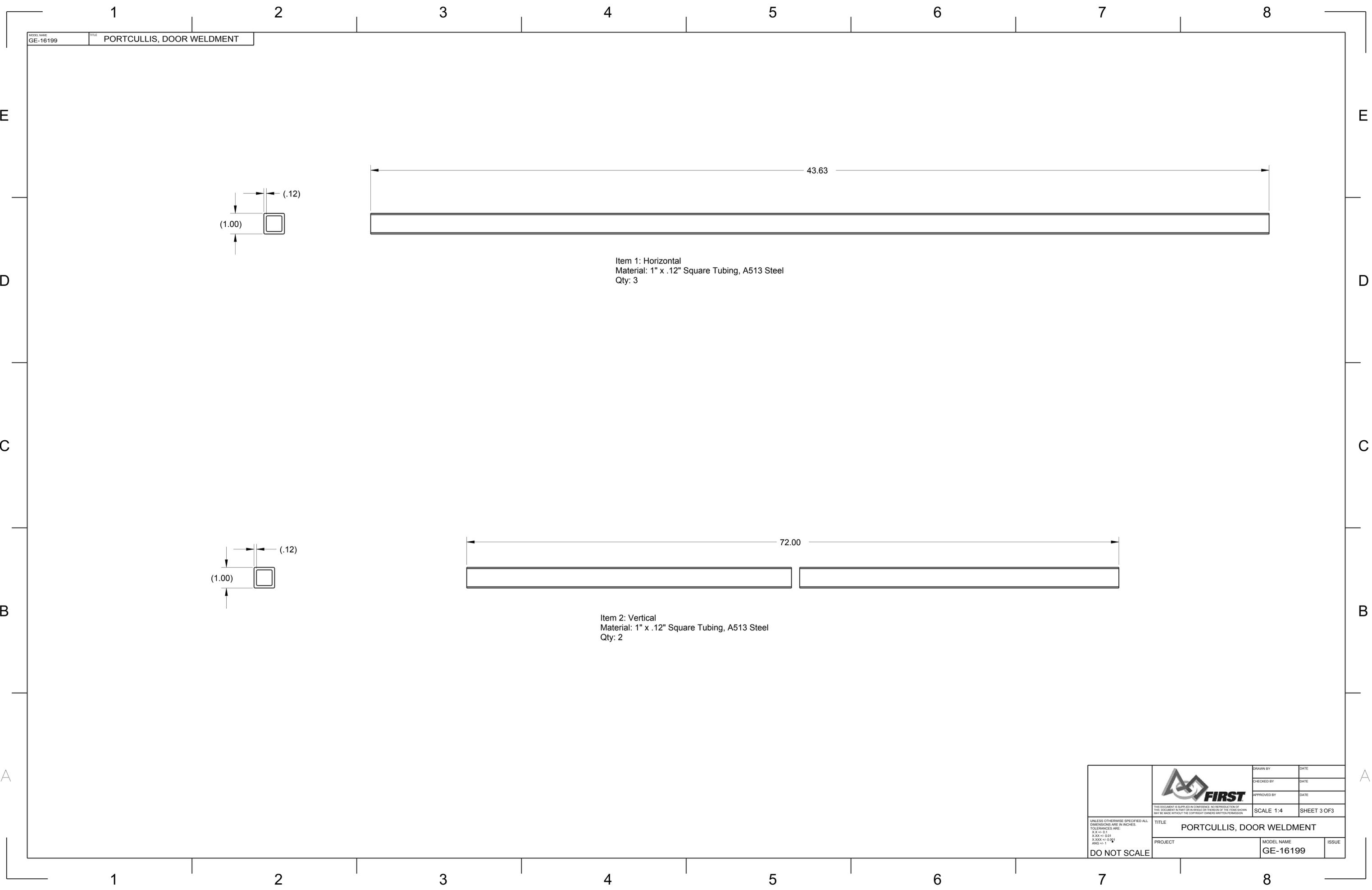
ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	GE-16199-01	3	horizontal
2	GE-16199-02	2	vertical

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE PORTCULLIS, DOOR WELDMENT		SCALE 1:4
PROJECT GE-16199		ISSUE
SHEET 1 OF 3		

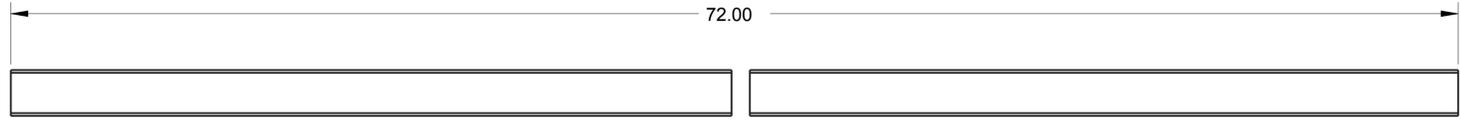
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 XXX ± 0.1
 XXXX ± 0.01
 XXXX ± 0.001
 ANG ± 1
 DO NOT SCALE



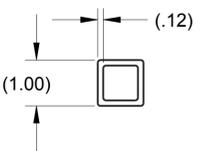
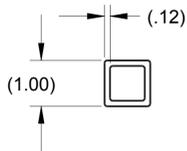
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: XXX +/- 0.1 XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE	 <small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>	DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		SCALE 1:4	
TITLE		PORTCULLIS, DOOR WELDMENT	
PROJECT		MODEL NAME	ISSUE
		GE-16199	



Item 1: Horizontal
 Material: 1" x .12" Square Tubing, A513 Steel
 Qty: 3



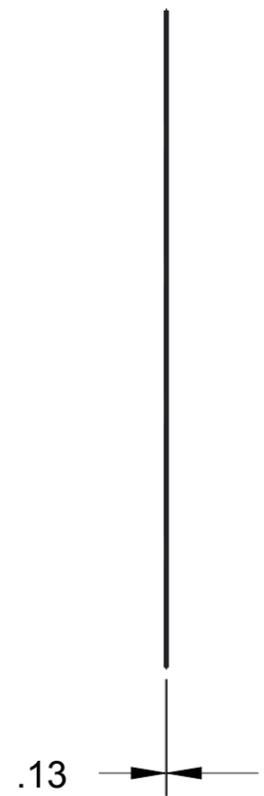
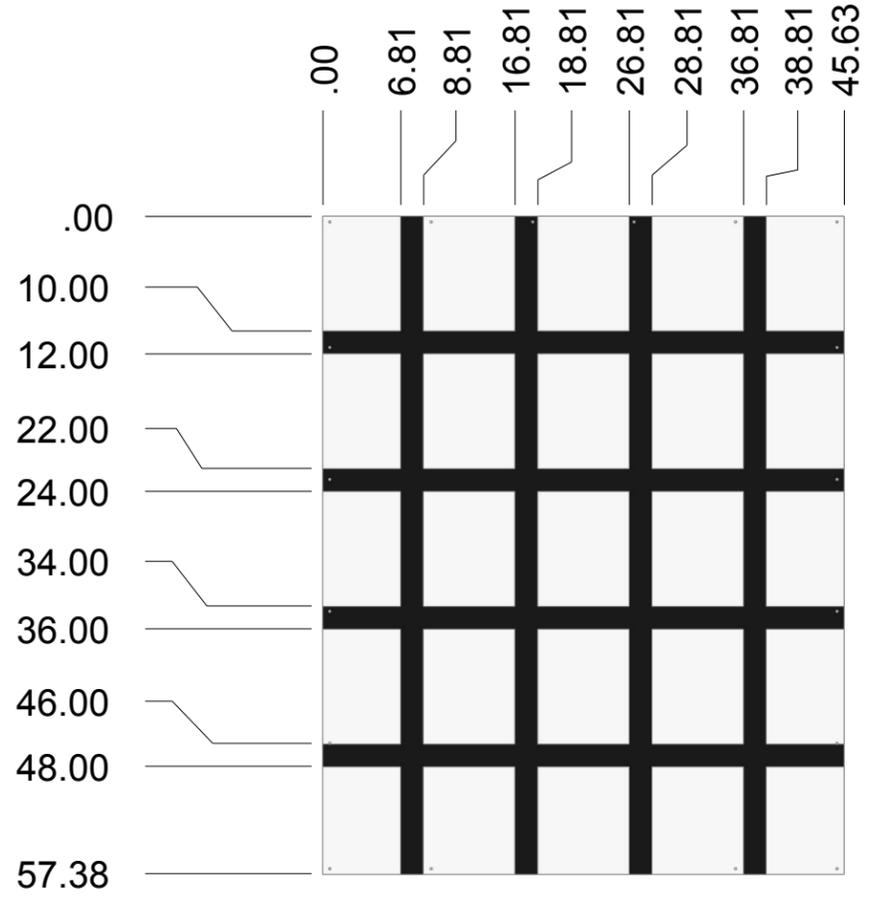
Item 2: Vertical
 Material: 1" x .12" Square Tubing, A513 Steel
 Qty: 2



<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1</small> DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>	
TITLE: PORTCULLIS, DOOR WELDMENT		SCALE 1:4	SHEET 3 OF 3
PROJECT:		MODEL NAME: GE-16199	ISSUE:

MODEL NAME
GE-16200

TITLE
Door Plastic, Potcullis



- Notes:
1. Material: 1/8" Clear Polycarbonate
 2. Grid to be painted black on one side.

	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE Door Plastic, Potcullis		
PROJECT		MODEL NAME GE-16200
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

MODEL NAME
GE-16200

TITLE
Door Plastic, Potcullis

D

D

C

C

B

B

A

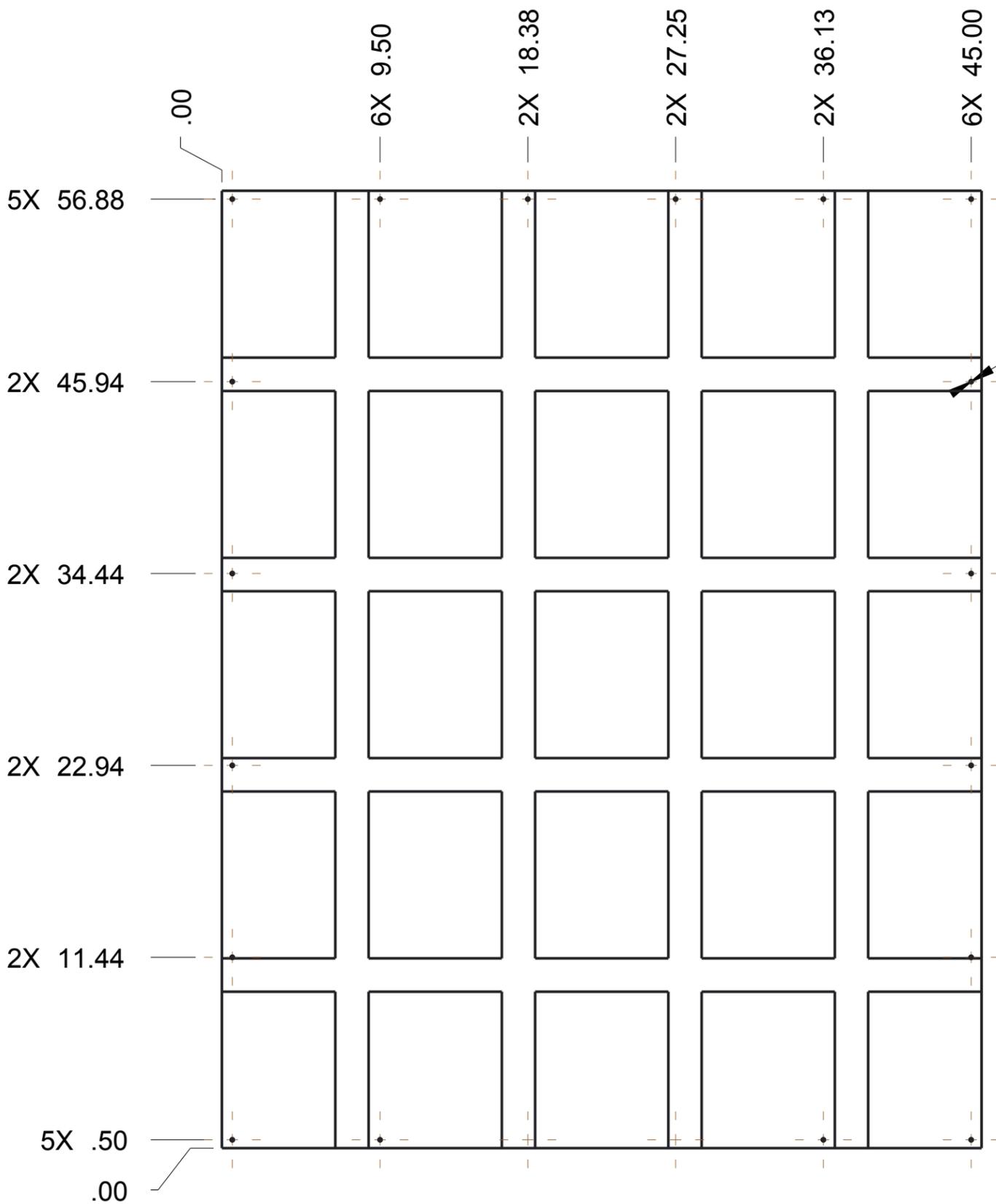
A

1

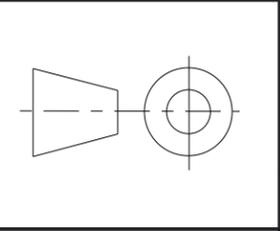
2

3

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TYP.



UNLESS OTHERWISE SPECIFIED ALL
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



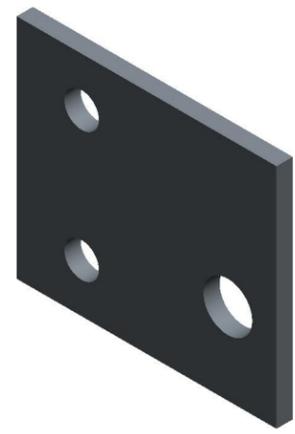
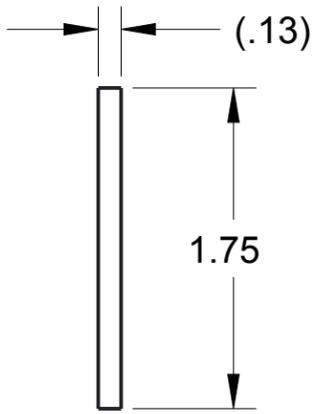
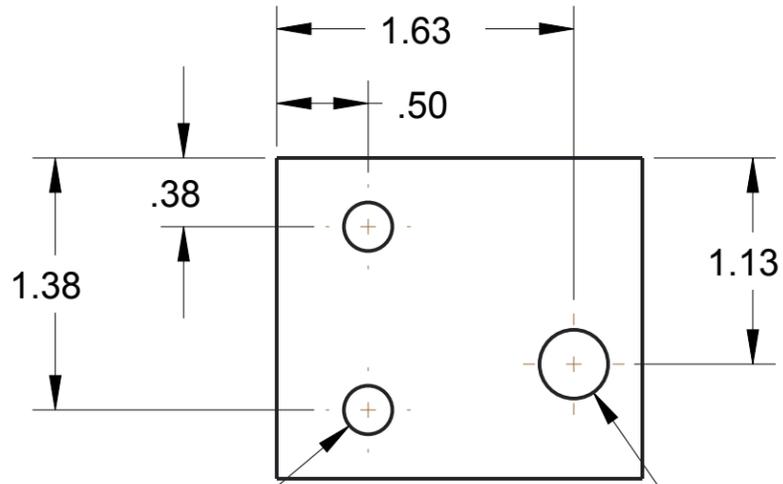
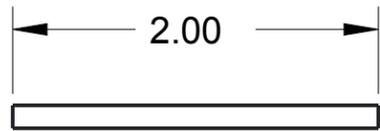
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CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:8	SHEET 2 OF 2

TITLE Door Plastic, Potcullis		
PROJECT	MODEL NAME GE-16200	ISSUE

MODEL NAME
GE-16201

TITLE
SIDEPLATE, ROLLER



2X \varnothing .265 THRU

\varnothing .38 THRU

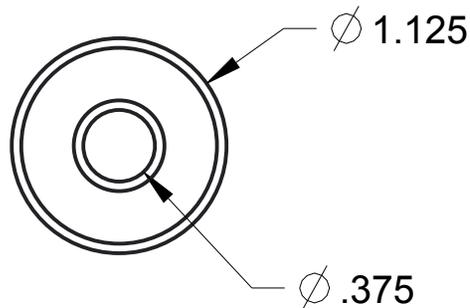
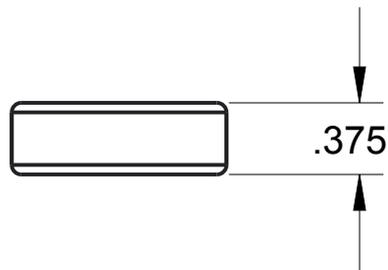
- NOTES:
1. MATERIAL: 1/8" THICK ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES.

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE SIDEPLATE, ROLLER	
DO NOT SCALE		PROJECT	MODEL NAME GE-16201
		ISSUE	

MODEL NAME
GE-16202

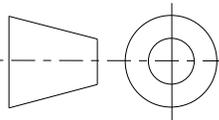
TITLE

Bearing, 1.125" OD



NOTES:

- BALL BEARING
- 2 SHIELDS
- COMMON INDUSTRY NUMBER: 1614ZZ

		DRAWN BY	DATE
		CHECKED BY	DATE
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		SCALE 1:1	SHEET 1 OF 1
DO NOT SCALE	TITLE Bearing, 1.125" OD		
	PROJECT	MODEL NAME GE-16202	ISSUE

MODEL NAME
GE-16203

TITLE
PLASTIC ROLLER

1

2

3

4

D

D

C

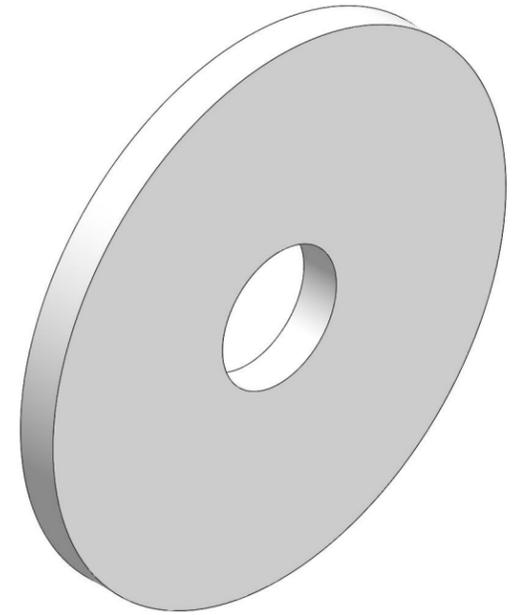
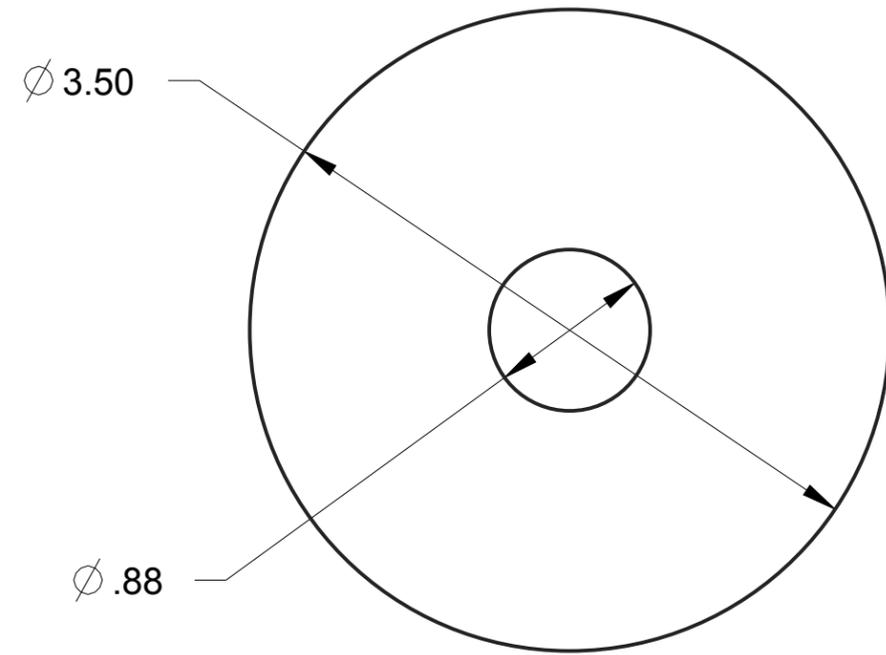
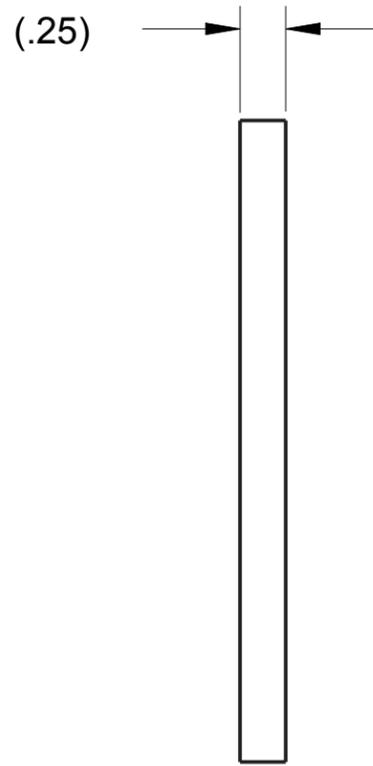
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B

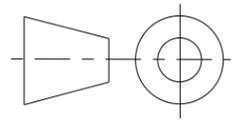
B

A

A



- NOTES:
 1. MATERIAL: 1/4" NATURAL HDPE
 2. REMOVE ALL BURRS AND SHARPD EDGES

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE PLASTIC ROLLER	
DO NOT SCALE		PROJECT	MODEL NAME GE-16203
			ISSUE

1

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3

4

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C

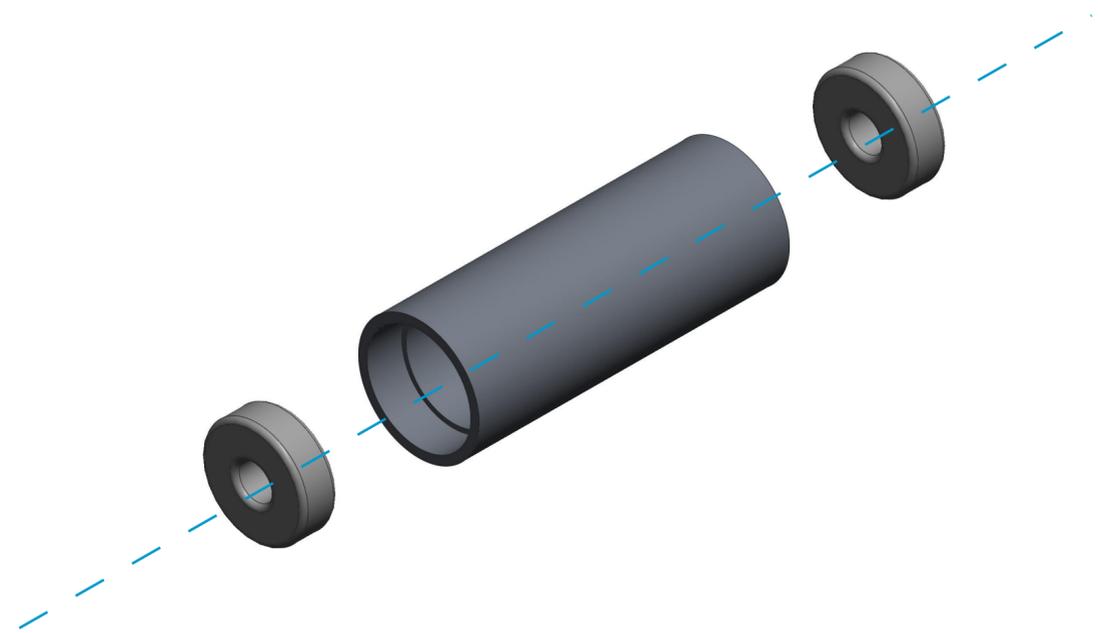
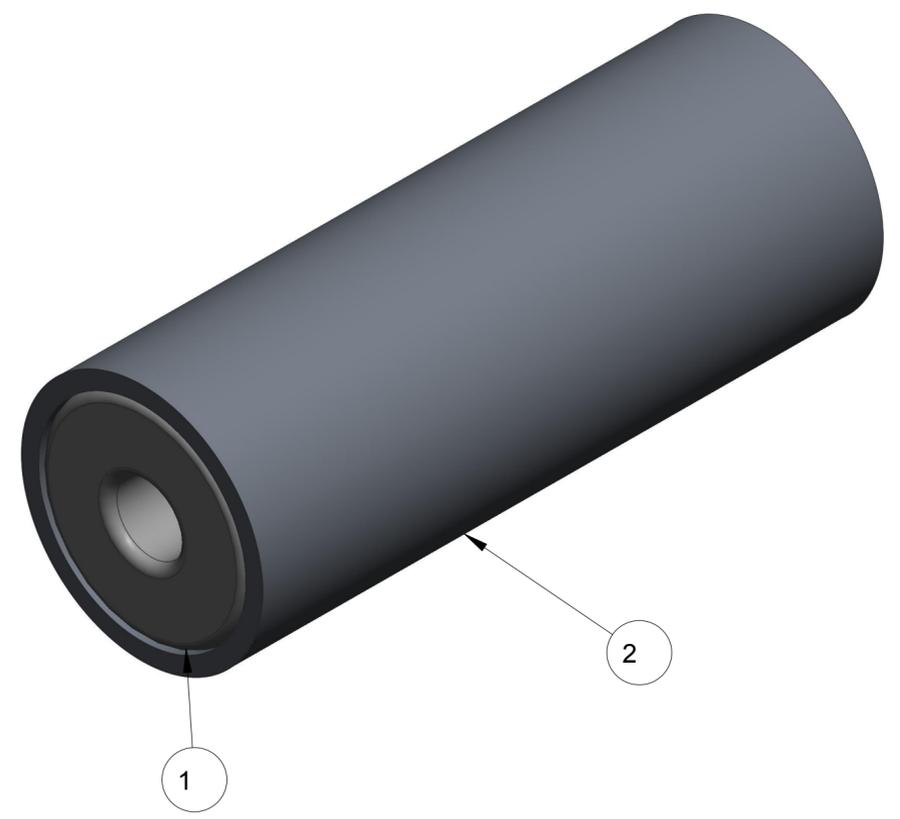
C

B

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A



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16202	2	bearing, 1.125 od	See Drawing
2	GE-16205	1	upper roller	See Drawing

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XX ±0.1 .XXX ±0.01 X.XXX ±0.001 ANG ±0.1</small>		Upper Roller Assembly	
DO NOT SCALE		PROJECT	MODEL NAME GE-16204
			ISSUE

1

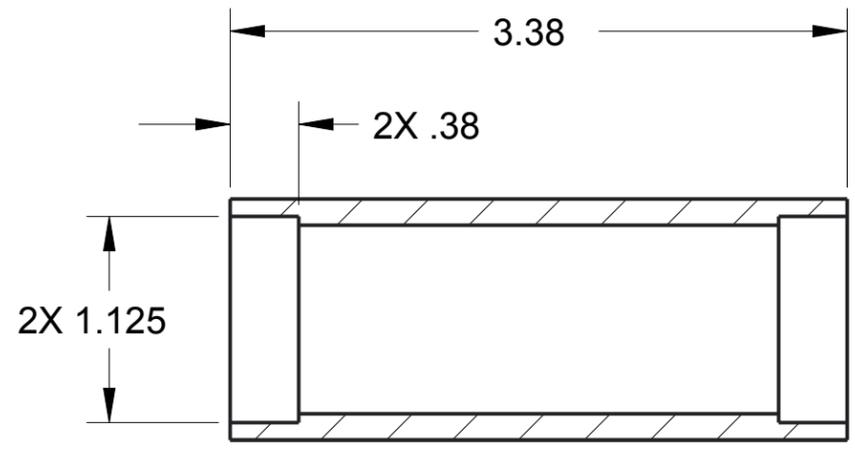
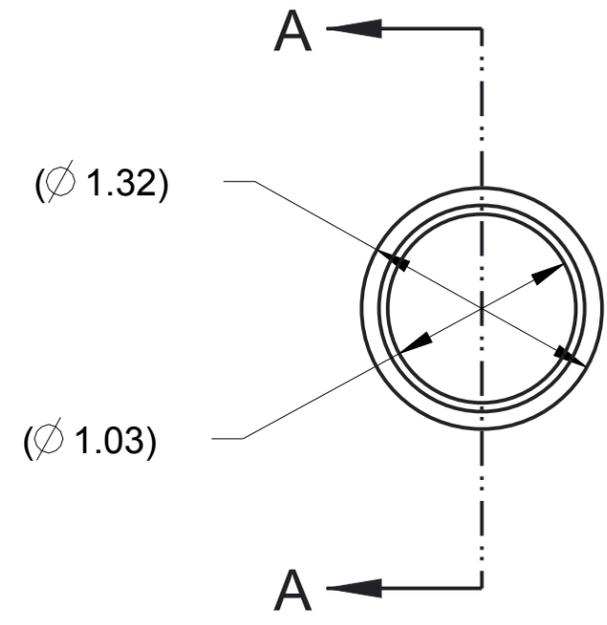
2

3

4

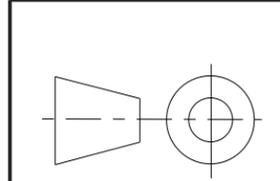
MODEL NAME
GE-16205

TITLE
UPPER ROLLER



SECTION A-A

- NOTES:
- MATERIAL: 1" SCHEDULE 40 PIPE, 6061 ALUMINUM
 - REMOVE ALL BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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CHECKED BY	DATE
APPROVED BY	DATE

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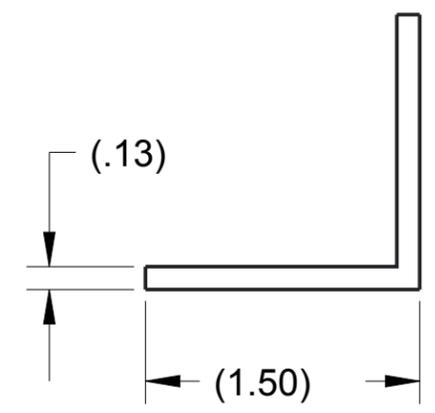
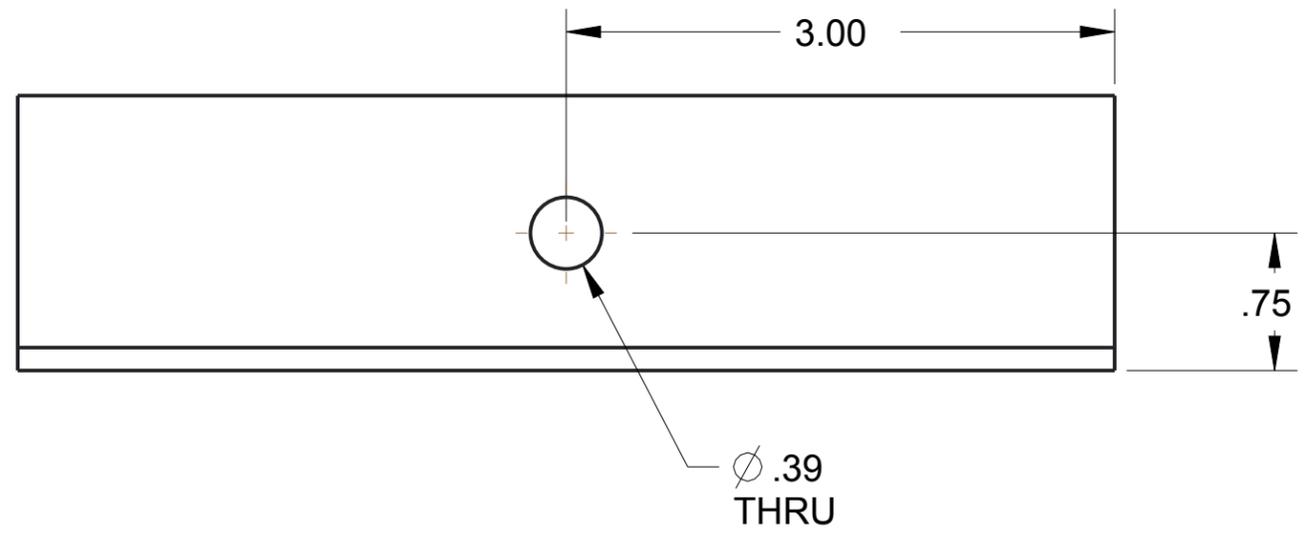
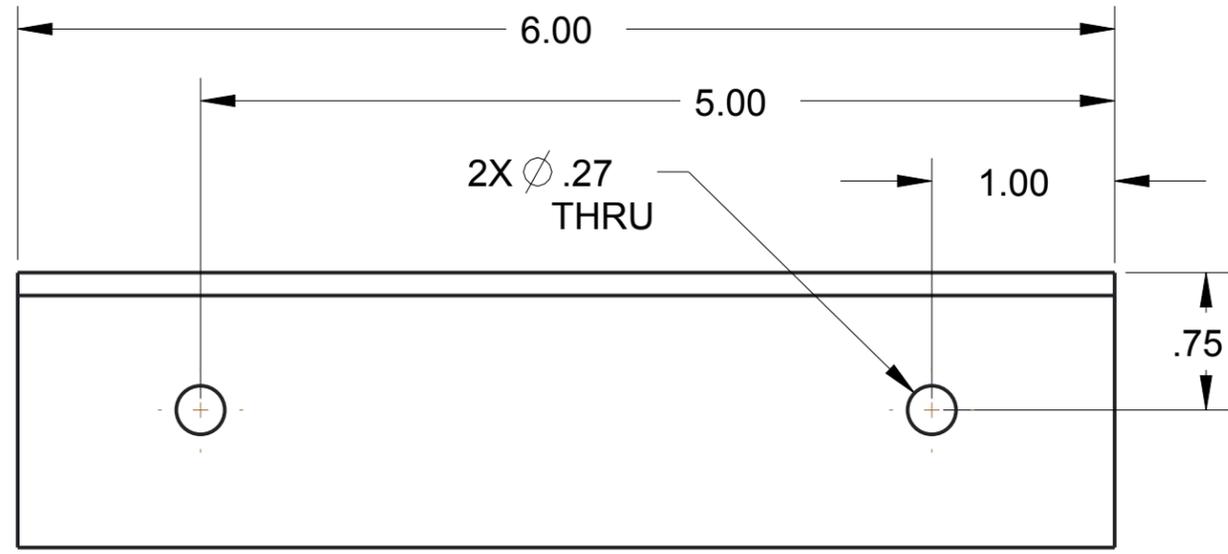
SCALE 1:1 SHEET 1 OF 1

TITLE
UPPER ROLLER

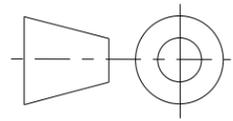
PROJECT	MODEL NAME GE-16205	ISSUE
---------	------------------------	-------

MODEL NAME
GE-16207

TITLE
ANGLE, SPRING



- NOTES:
 1. MATERIAL: 1-1/2" X .125" ANGLE, 6063 ALUMINUM
 2. REMOVE ALL BURRS AND SHARP EDGES

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		CHECKED BY	DATE	
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	TITLE ANGLE, SPRING		SCALE 1:1	SHEET 1 OF 1
PROJECT		MODEL NAME GE-16207	ISSUE	

MODEL NAME
GE-16208

TITLE

SPOOL

1

2

3

4

D

D

C

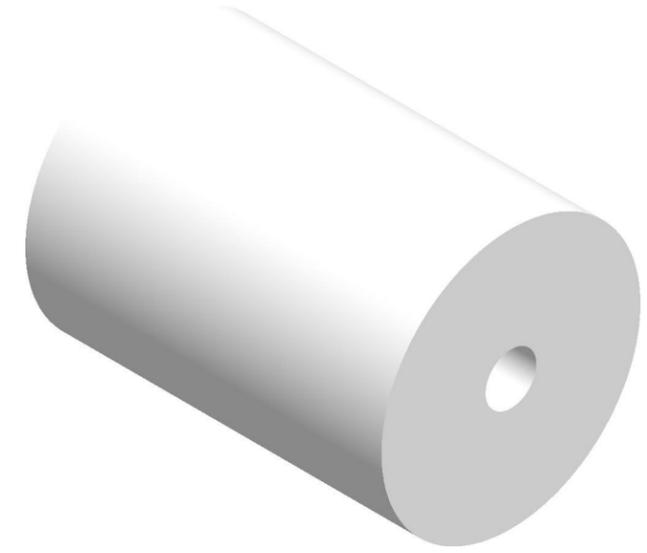
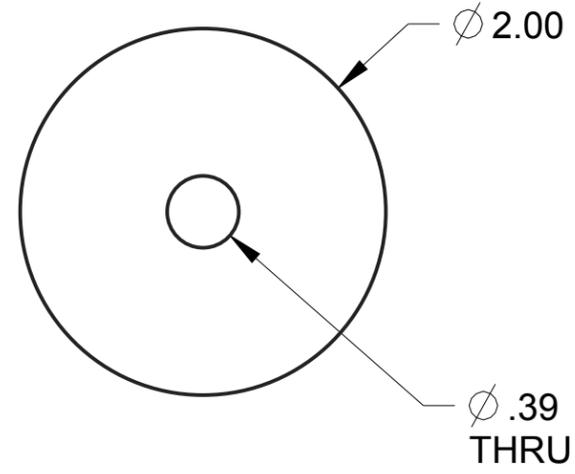
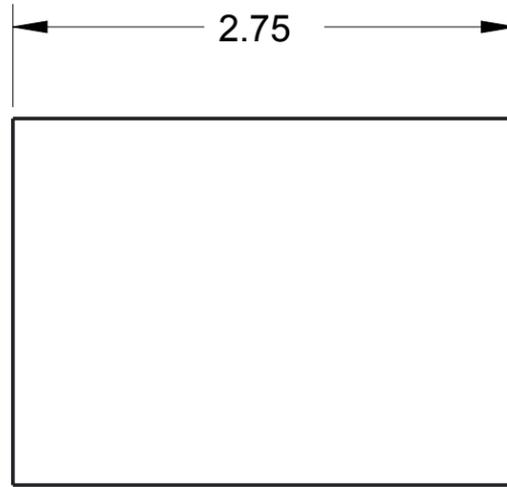
C

B

B

A

A



NOTES:

- 1. MATERIAL: WHITE OR NATURAL HDPE
- 2. REMOVE ALL BURRS AND SHARP EDGES

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		CHECKED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE SPOOL	
DO NOT SCALE		PROJECT	MODEL NAME GE-16208
			ISSUE

1

2

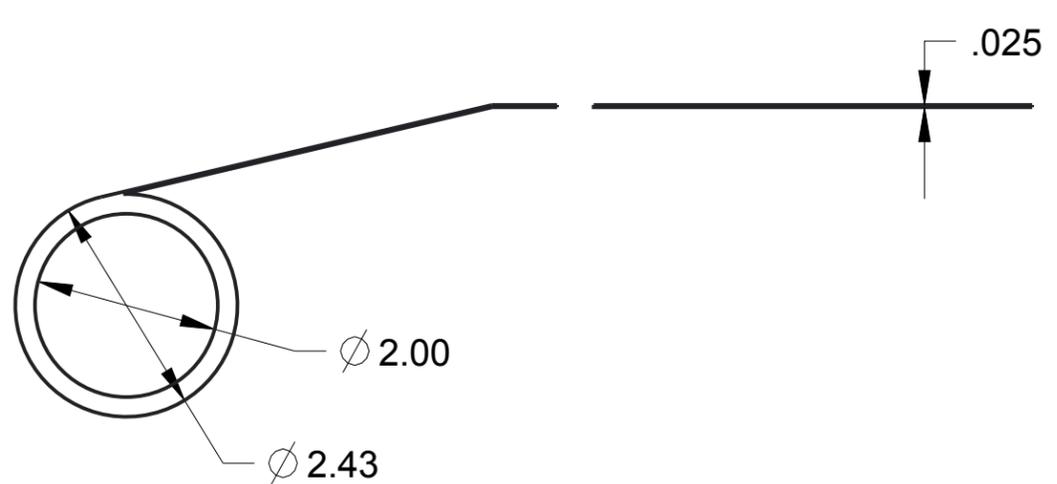
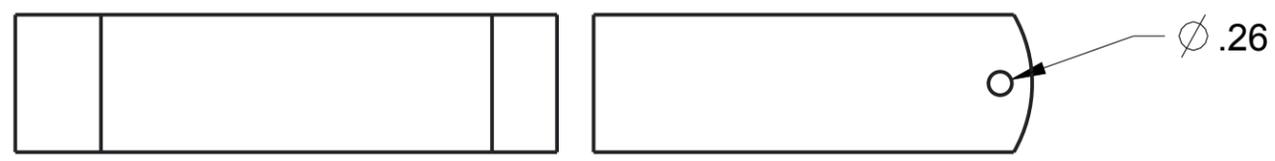
3

4

MODEL NAME
GE-16209

TITLE
SPRING, CONFORCE

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	B1 D2	Updated Manufacturer PN Updated Hole size	NJS	2/4/2016



A NOTES:
 1. VULCAN SPRING PN: J25S65FR
 2. FORCE: 23 LBS
 3. LENGTH: 65"

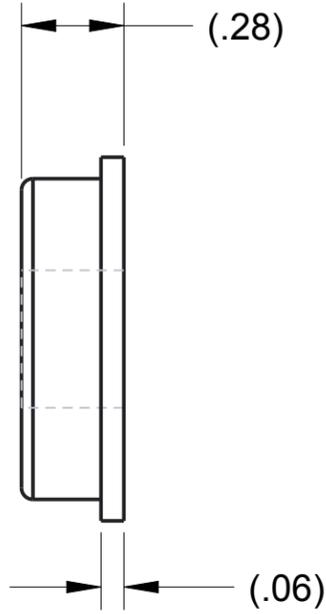
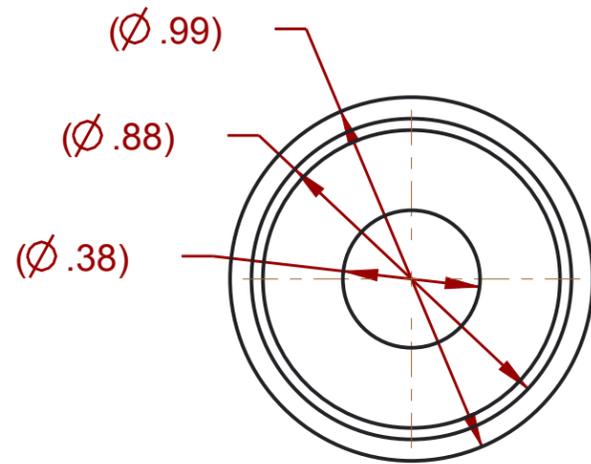
	DRAWN BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE SPRING, CONFORCE		
PROJECT		MODEL NAME GE-16209
ISSUE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 X.X +/- 0.1
 X.XX +/- 0.01
 X.XXX +/- 0.001
 ANG +/- 1°

DO NOT SCALE

MODEL NAME
GE-16210

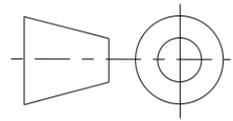
TITLE
.875" Flange Bearing for 3/8" Screw



NOTE

Material: .875" Flange Bearing, Steel

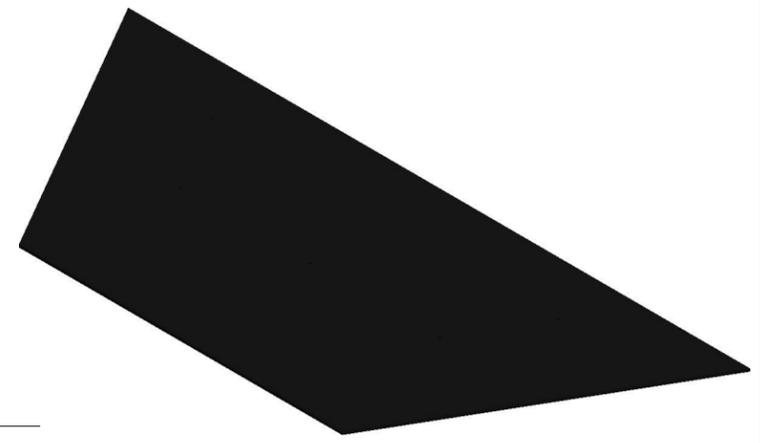
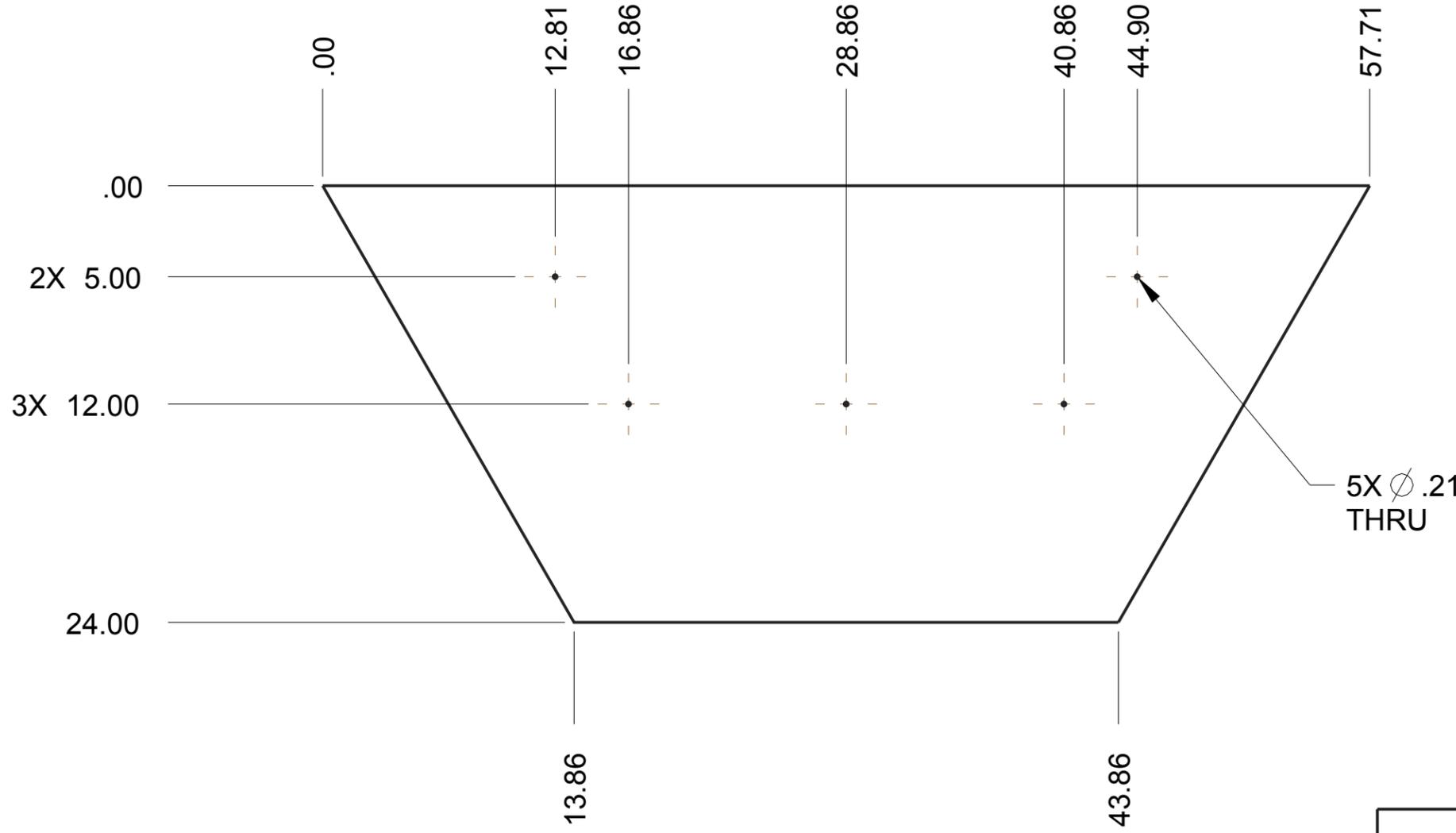
Scale: 2:1

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE .875" Flange Bearing for 3/8" Screw	
DO NOT SCALE		PROJECT	MODEL NAME GE-16210
		ISSUE	

MODEL NAME
GE-16213

TITLE
ROOF, TOWER

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A-1	Updated Material Note	NJS	3/1/2016



SCALE 1:12

NOTES:
1. MATERIAL: 1/4" THICK, BLACK, HDPE or CLEAR POLYCARBONATE

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	APPROVED BY	DATE
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TITLE ROOF, TOWER		
PROJECT		MODEL NAME GE-16213
DO NOT SCALE		ISSUE

USE EPOXY TO ATTACH ITEM 14 TO THE FLAG MOUNTS.

ATTACH ITEM 15 TO ITEM 14 USING 3 CABLE TIES.

USE CABLE TIES TO ATTACH ITEMS 3 AND 6 TO THE ASSEMBLY. (8 TIMES)

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16216	1	box, side 1	
2	GE-16217	2	solenoid	
3	GE-16218	2	box, side 2	
4	GE-16219	4	churro, 3"	
5	GE-16220	1	box, side 3	
6	GE-16221	2	box, side 4	
7	GE-16222	4	bearing, hex	
8	GE-16223	2	shaft, hex	
9	GE-16224	6	clamp collar, hex	
10	GE-16225	2	spacer 1	
11	GE-16226	2	flag catch	
12	GE-16227	1	flag mount 1	
13	GE-16228	1	flag mount 2	
14	GE-16229	2	flag pole	
15	GE-16230	2	flag	
16	GE-16231	1	counterweight 1	
17	GE-16232	1	counterweight 2	
18	GE-16233	2	spacer 1	
19	HW-00012	8	CAP SCREW, HEX, 1/4-20 X .75"	
20	HW-00092	14	nut, nylock, #10-24	
21	HW-00103	4	Flat Head Machine Screw, 10-24 x 1"	
22	HW-00104	2	PAN HEAD, #10-24 X 1.25"	
23	HW-00105	8	PAN HEAD, #10-24 X .5"	

 <p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XXX +/- 0.1 .XXX +/- 0.01 .XXX +/- 0.001 ANG +/- 1</p> <p>DO NOT SCALE</p>	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
	TITLE: FLAG FLIPPER ASSEMBLY PROJECT: _____ MODEL NAME: GE-16215 ISSUE: _____
	SCALE: 1:3 SHEET 1 OF 2
	<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNER'S WRITTEN PERMISSION.</small>

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MODEL NAME: GE-16215 TITLE: FLAG FLIPPER ASSEMBLY

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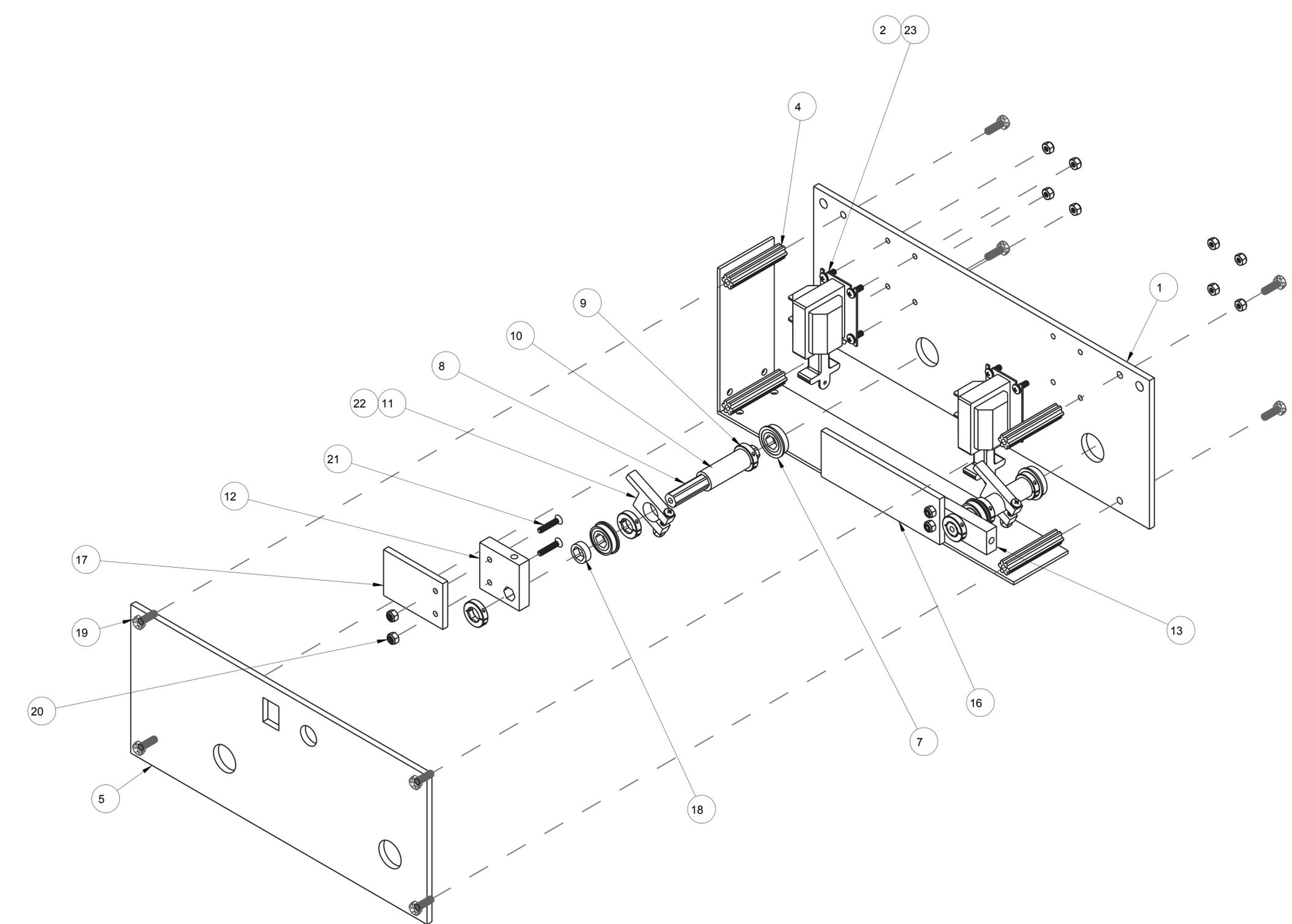
C

B

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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.XX ± 0.1 X.XXX ± 0.01 X.XXX ± 0.001 ANG ± 1</small> DO NOT SCALE		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
		<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THE DISCLOSURE OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.</small>	
TITLE: FLAG FLIPPER ASSEMBLY		SCALE 1:2	SHEET 2 OF 2
PROJECT		MODEL NAME GE-16215	ISSUE

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MODEL NAME
GE-16216

TITLE
BOX, SIDE 1

1

2

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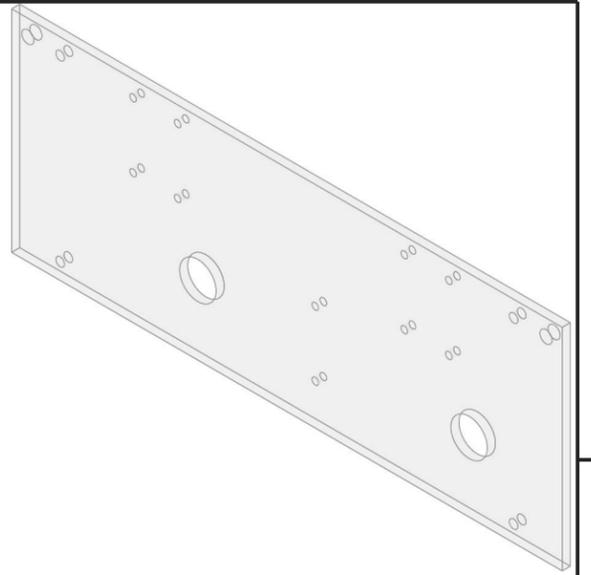
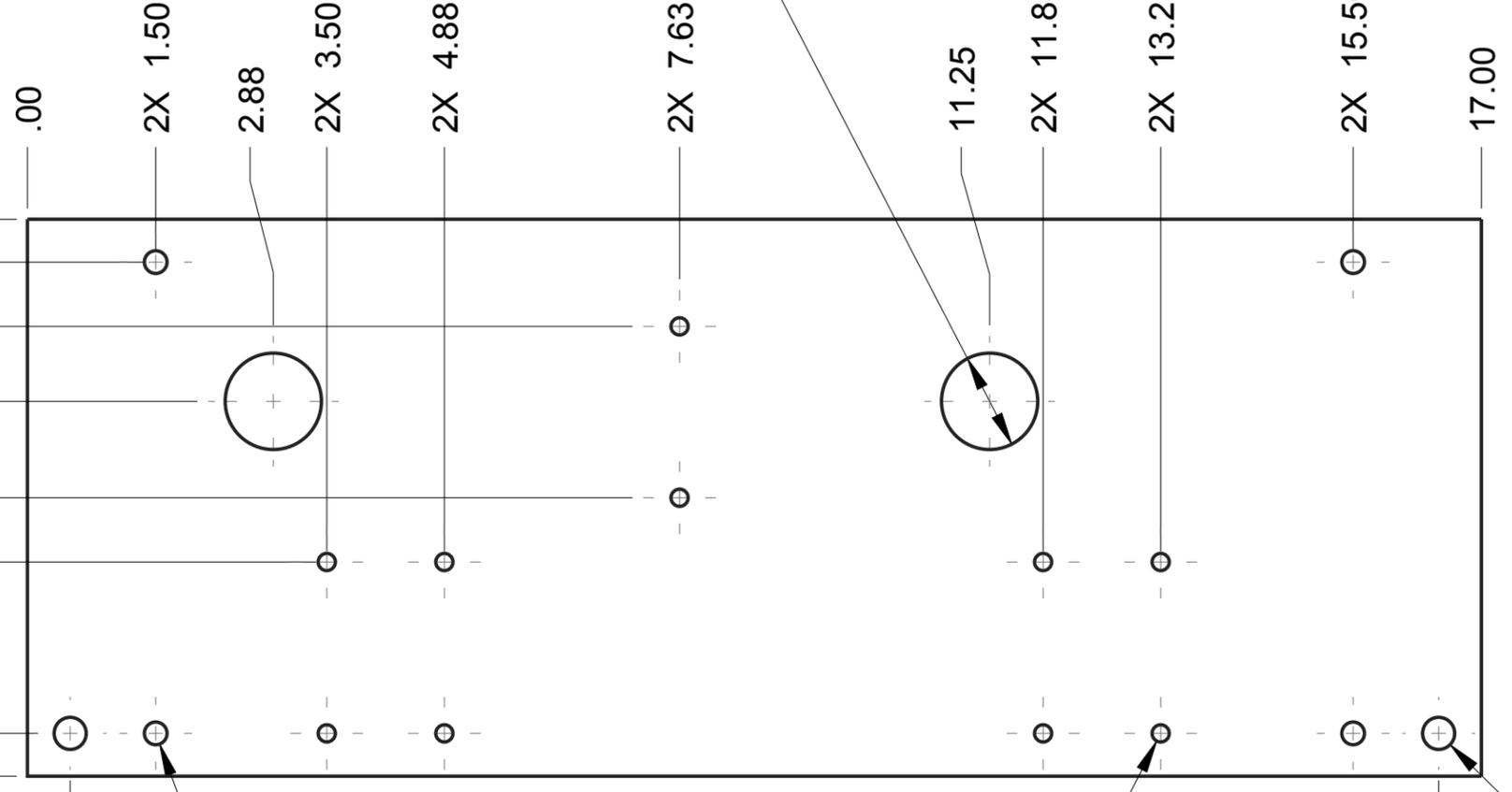
B

B

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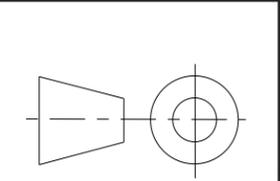
2X \varnothing 1.125 THRU



(.25)

NOTE

Material: Clear Polycarbonate, .25" Thick
Scale: 1:2



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
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TITLE BOX, SIDE 1	
PROJECT	MODEL NAME GE-16216
ISSUE	

1

2

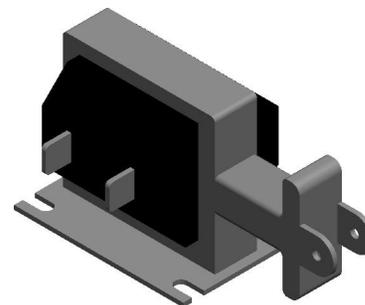
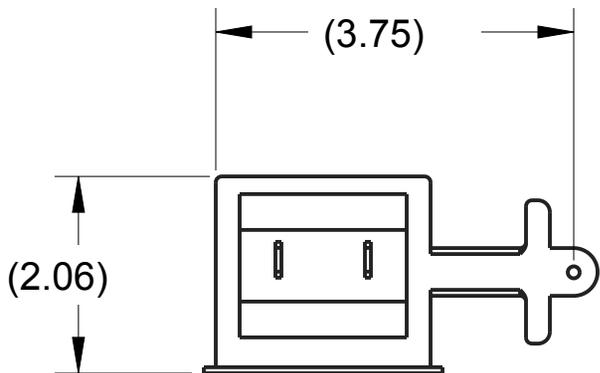
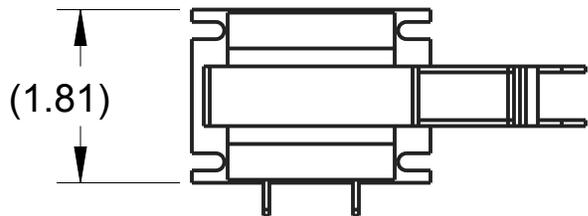
3

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MODEL NAME
GE-16217

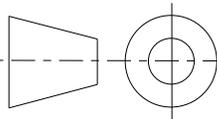
TITLE

SOLENOID



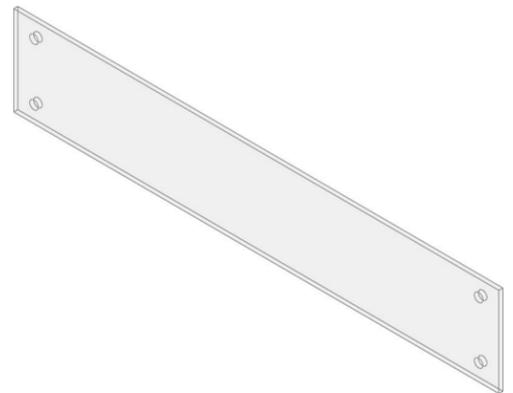
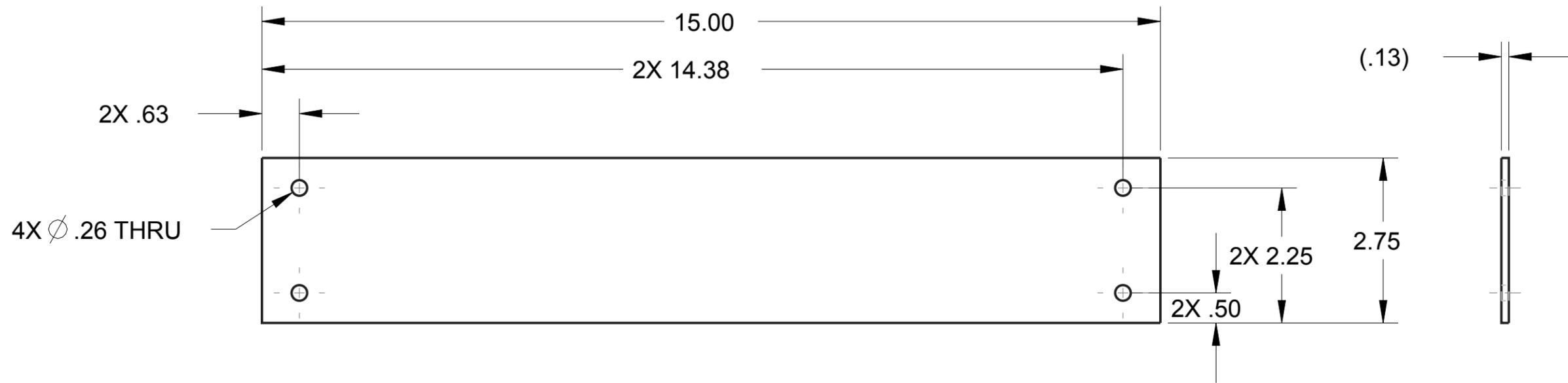
NOTES:

- 1. MANUFACTURED BY: DORMEYER PRODUCTS
- 2. PART NUMBER: 2005-M-1

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</p>			
<p>DO NOT SCALE</p>		<p>TITLE SOLENOID</p>	
<p>PROJECT</p>		<p>MODEL NAME GE-16217</p>	<p>ISSUE</p>

MODEL NAME
GE-16218

TITLE
BOX, SIDE 2



NOTE

Material: Clear Polycarbonate, .125" Thick
Scale: 1:2

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	CHECKED BY	DATE
	APPROVED BY	DATE
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TITLE BOX, SIDE 2		
PROJECT	MODEL NAME GE-16218	ISSUE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

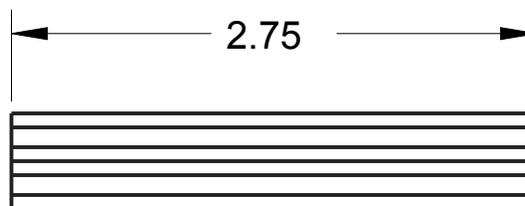
MODEL NAME
GE-16219

TITLE

CHURRO, 2.75"

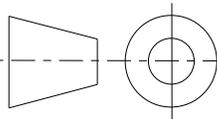


1/4-20 ∇ .75 TAPPED HOLE
BOTH ENDS



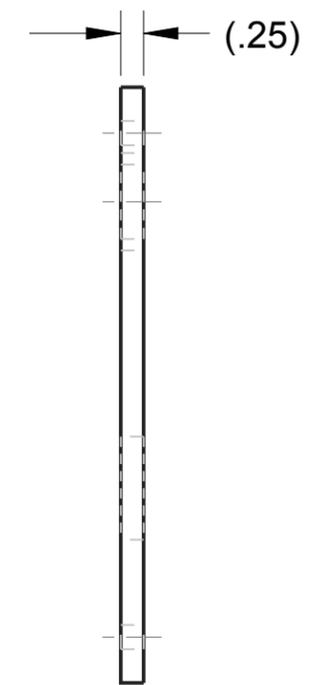
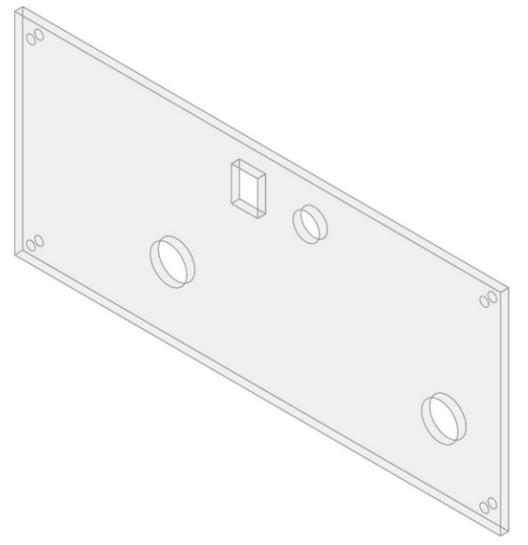
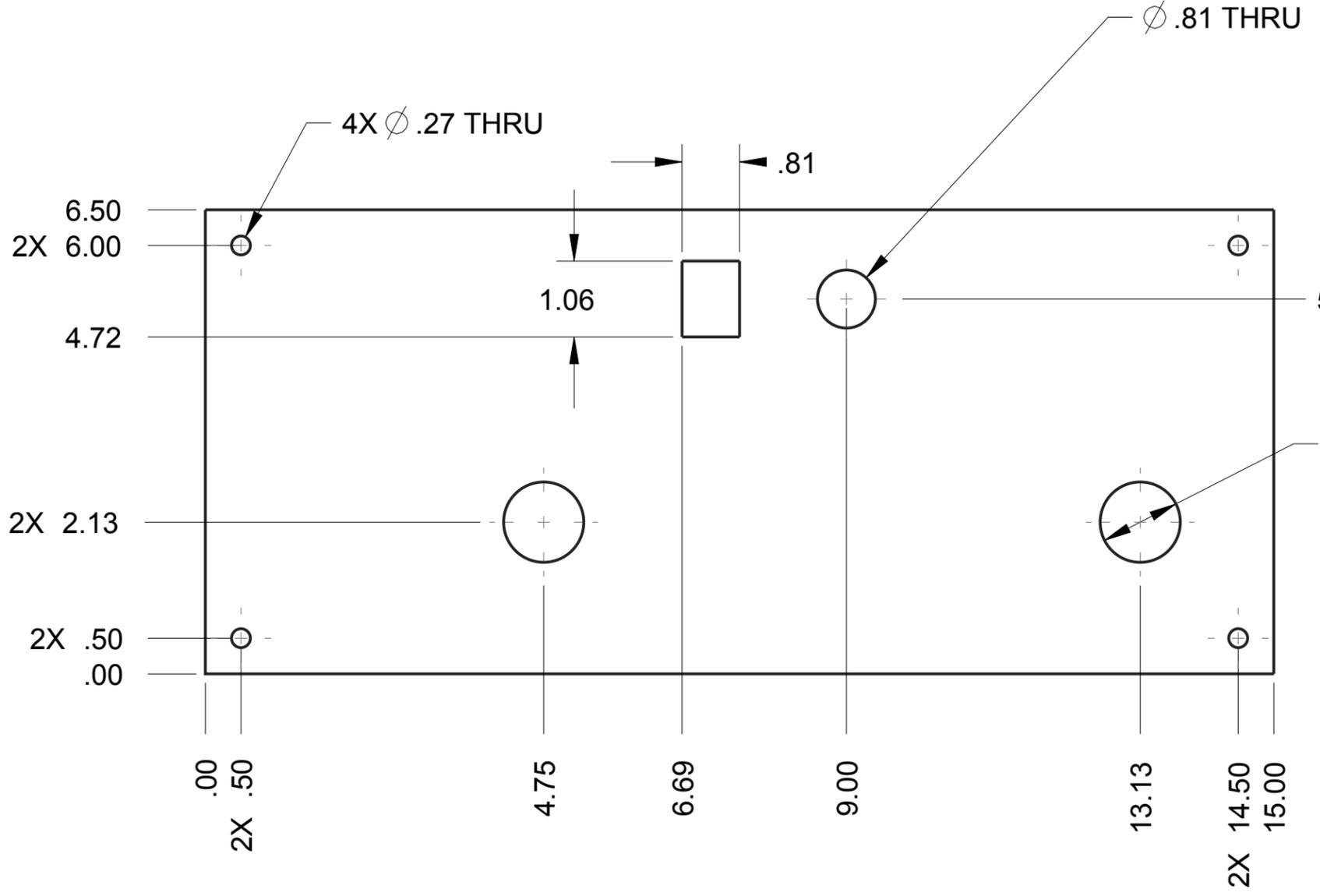
NOTES:

1. MAKE FROM ANDYMARK PAR NUMBER: AM-2974
2. REMOVE ALL BURRS AND SHARP EDGES.

		DRAWN BY	DATE
		CHECKED BY	DATE
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XXX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°	THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION	APPROVED BY	DATE
		SCALE 1:1	SHEET 1 OF 1
DO NOT SCALE	TITLE CHURRO, 2.75"		
	PROJECT	MODEL NAME GE-16219	ISSUE

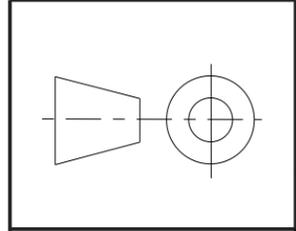
MODEL NAME
GE-16220

TITLE
BOX, SIDE 3



NOTE

Material: Clear Polycarbonate, .25" Thick
Scale: 1:2



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



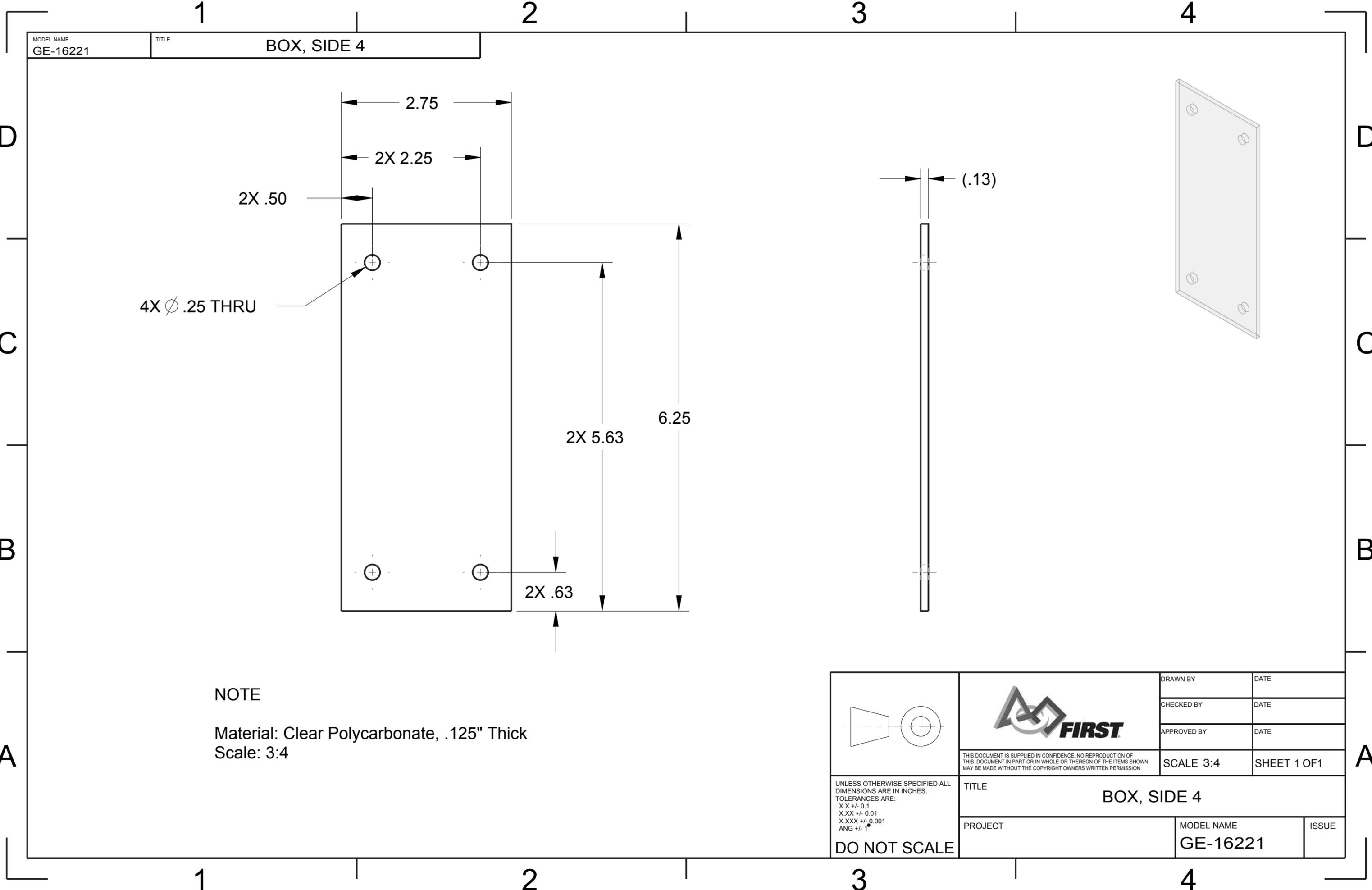
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DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:4	SHEET 1 OF 1

TITLE BOX, SIDE 3		
PROJECT	MODEL NAME GE-16220	ISSUE

MODEL NAME
GE-16221

TITLE
BOX, SIDE 4



NOTE

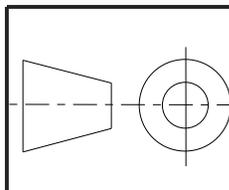
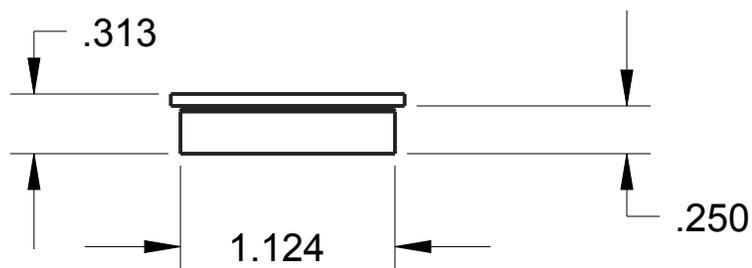
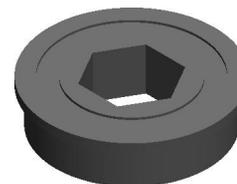
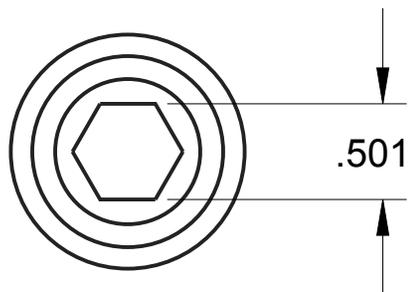
Material: Clear Polycarbonate, .125" Thick
Scale: 3:4

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 3:4	SHEET 1 OF 1
TITLE BOX, SIDE 4		PROJECT	MODEL NAME GE-16221
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		ISSUE	
DO NOT SCALE			

MODEL NAME
GE-16222

TITLE

BEARING, HEX



DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

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SCALE 1:1

SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XXX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

TITLE
BEARING, HEX

PROJECT

MODEL NAME

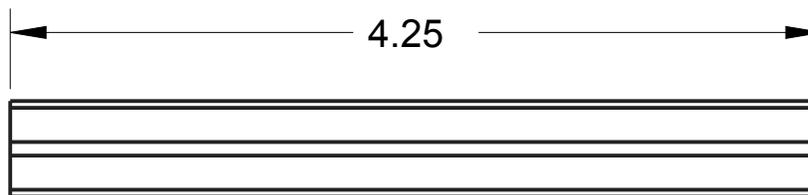
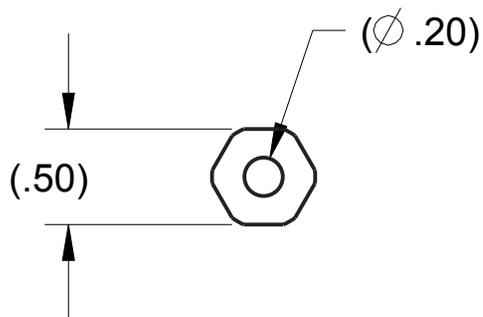
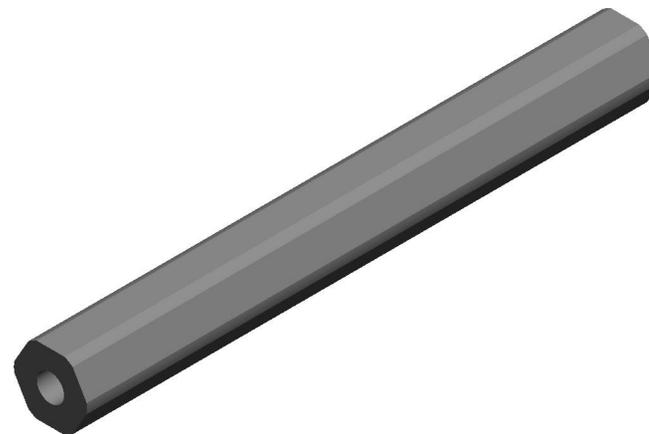
GE-16222

ISSUE

MODEL NAME
GE-16223

TITLE

SHAFT, HEX



NOTES:

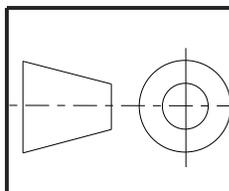
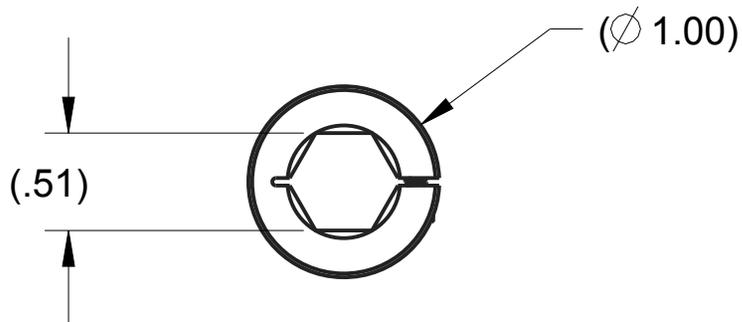
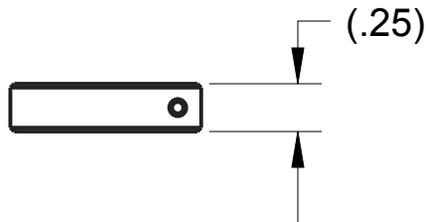
- 1. MATERIAL: 6061 ALUMINUM
- 2. REMOVE BURRS AND SHARP EDGES

		DRAWN BY	DATE
		CHECKED BY	DATE
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°	THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION	APPROVED BY	DATE
		SCALE 1:1	SHEET 1 OF 1
DO NOT SCALE	TITLE	SHAFT, HEX	
	PROJECT	MODEL NAME	ISSUE
		GE-16223	

MODEL NAME
GE-16224

TITLE

CLAMP COLLAR, HEX



DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

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SCALE 1:1

SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XXX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE

TITLE
CLAMP COLLAR, HEX

PROJECT

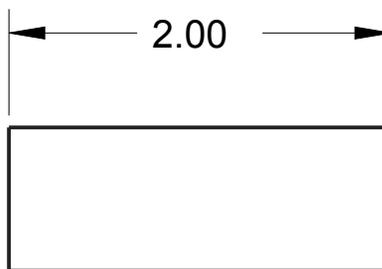
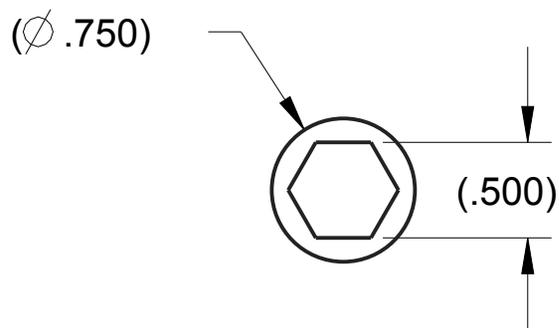
MODEL NAME
GE-16224

ISSUE

MODEL NAME
GE-16225

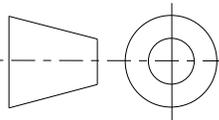
TITLE

SPACER 1



NOTES:

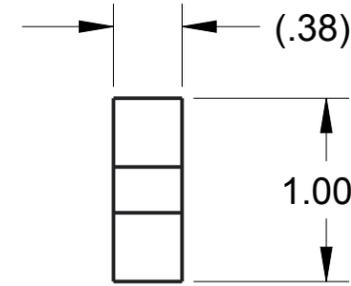
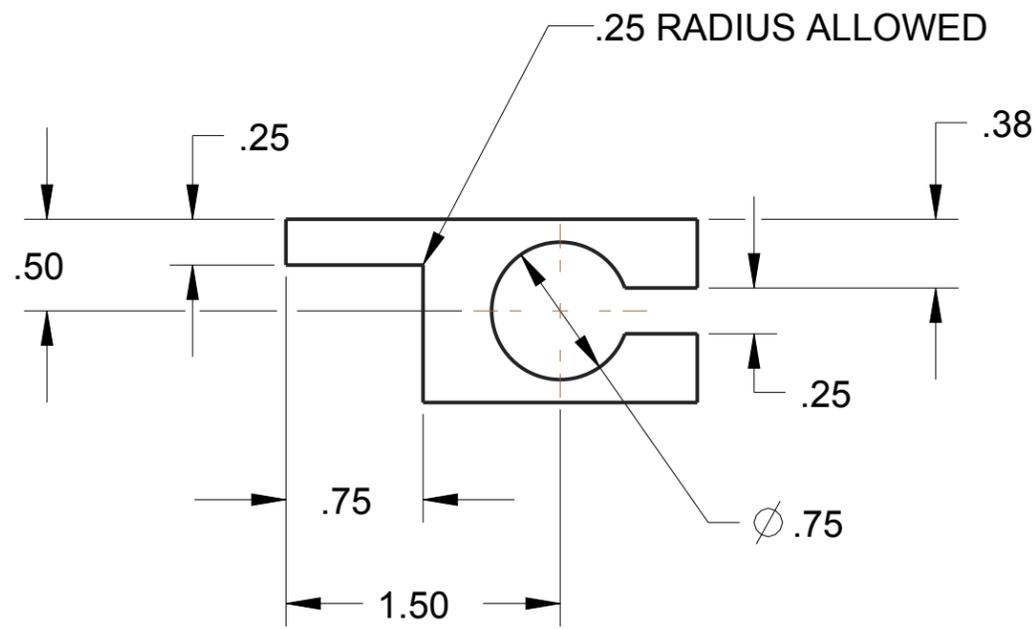
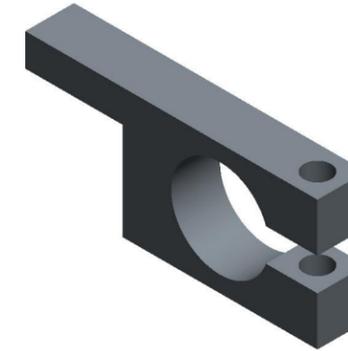
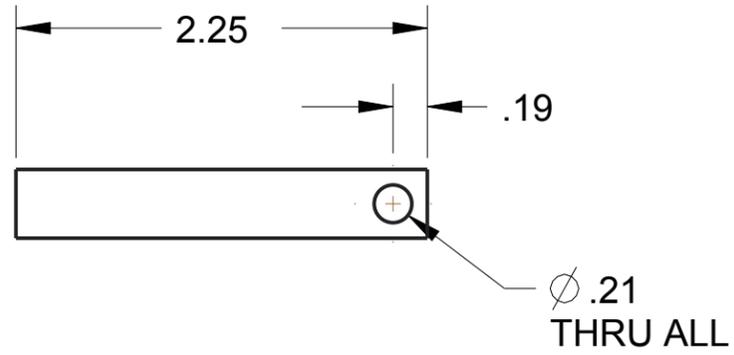
- 1. MATERIAL: ACETAL, BLACK
- 2. VEX PART NUMBER: 217-3265

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE 1:1	SHEET 1 OF 1
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</p>			
<p>DO NOT SCALE</p>		<p>TITLE SPACER 1</p>	
<p>PROJECT</p>		<p>MODEL NAME GE-16225</p>	<p>ISSUE</p>

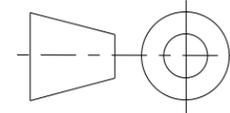
MODEL NAME
GE-16226

TITLE
FLAG CATCH

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A1	Changed Material	NJS	1/13/2016



NOTES:
1. MATERIAL: 3/8" ALUMINUM, 5052
REMOVE BURRS AND SHARP EDGES



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

DO NOT SCALE



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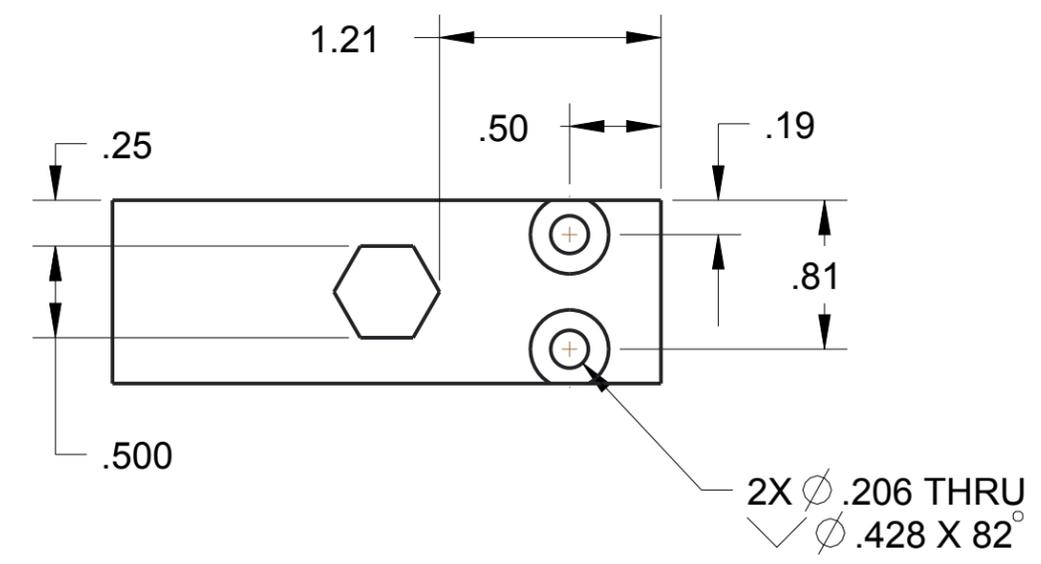
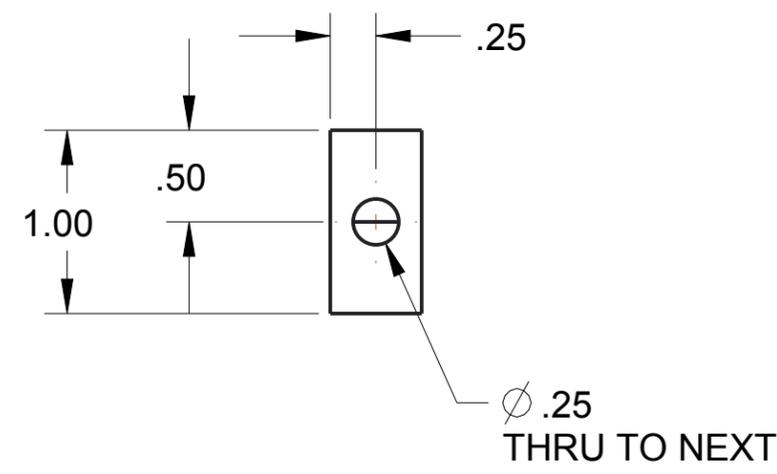
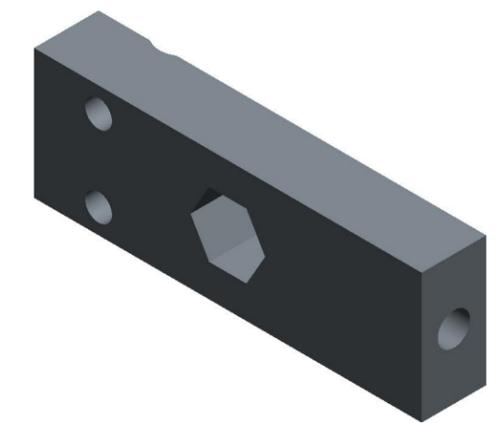
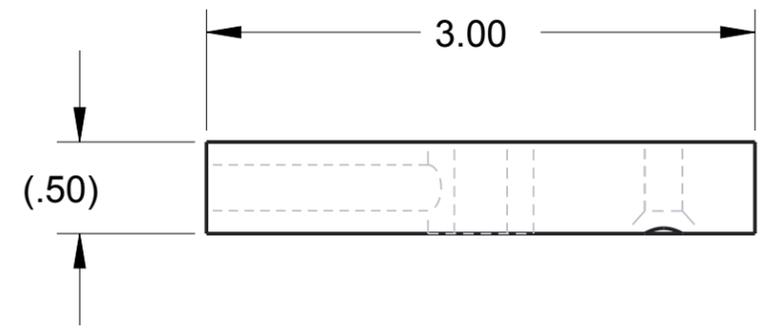
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE 1:1	SHEET 1 OF 1

TITLE FLAG CATCH	
PROJECT	MODEL NAME GE-16226
ISSUE	

MODEL NAME
GE-16228

TITLE
FLAG MOUNT 2

REV	LOCATION	DESCRIPTION	APPROVED	DATE
A	A1	Changed Material	NJS	1/13/2016



NOTES:
 1. MATERIAL: 1/2" ALUMINUM, 5052
 2. REMOVE ALL BURRS AND SHARP EDGES

		DRAWN BY	DATE
		CHECKED BY	DATE
		APPROVED BY	DATE
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TITLE FLAG MOUNT 2		PROJECT	ISSUE
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°		MODEL NAME GE-16228	
DO NOT SCALE			

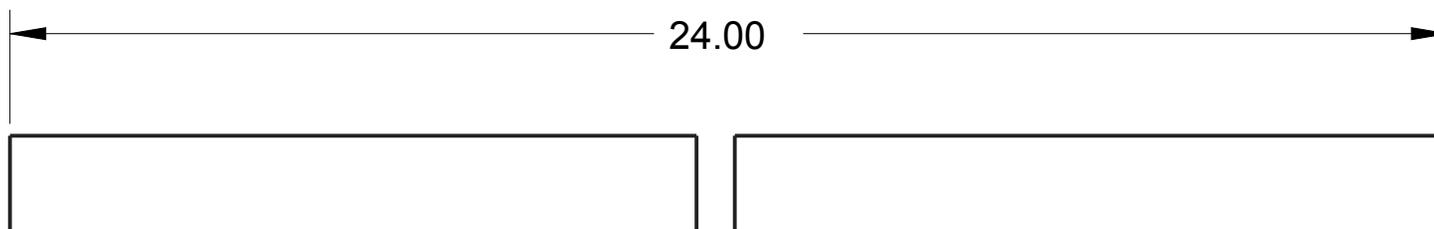
MODEL NAME
GE-16229

TITLE

1 2
FLAG POLE

B

B

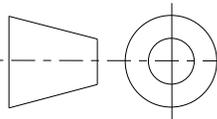


ϕ .25

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NOTES:
1. MATERIAL: WHITE FIBERGLASS ROD

			DRAWN BY	DATE
			CHECKED BY	DATE
			APPROVED BY	DATE
<small>THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION</small>		SCALE2:1	SHEET 1 OF 1	
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE <h2 style="text-align: center;">FLAG POLE</h2>		
DO NOT SCALE		PROJECT	MODEL NAME GE-16229	ISSUE

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MODEL NAME
GE-16230

TITLE

FLAG

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C

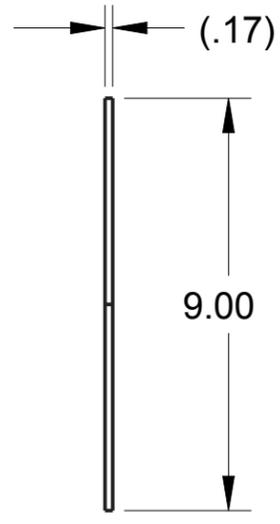
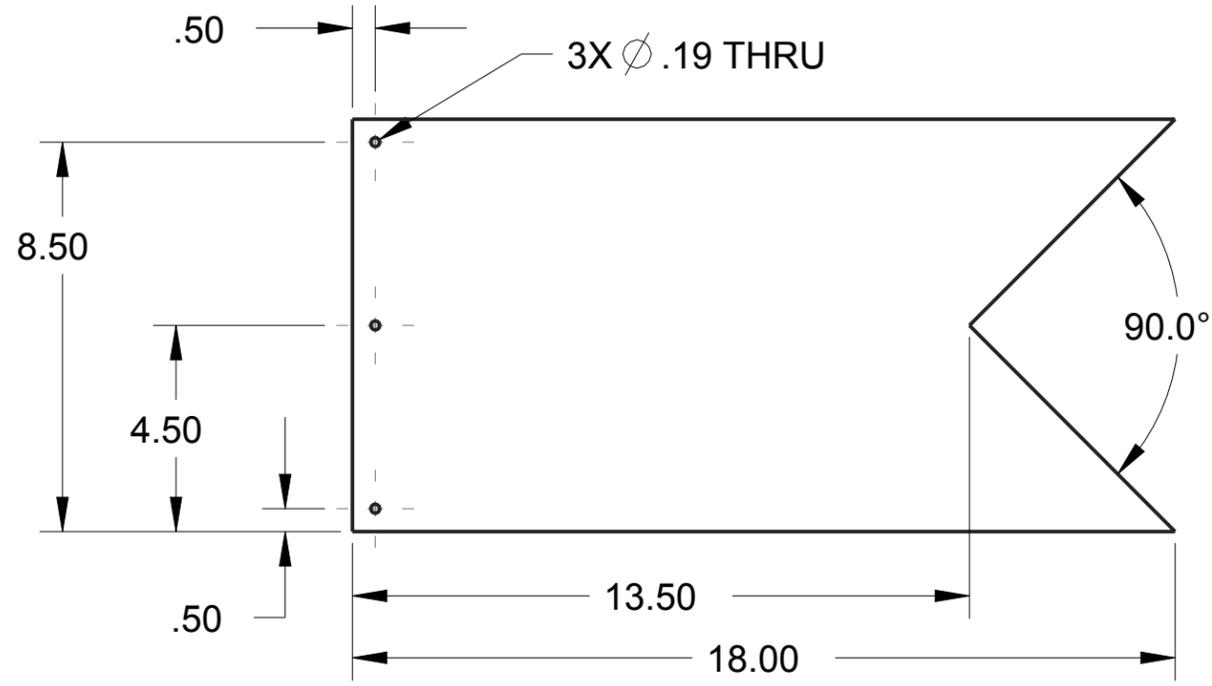
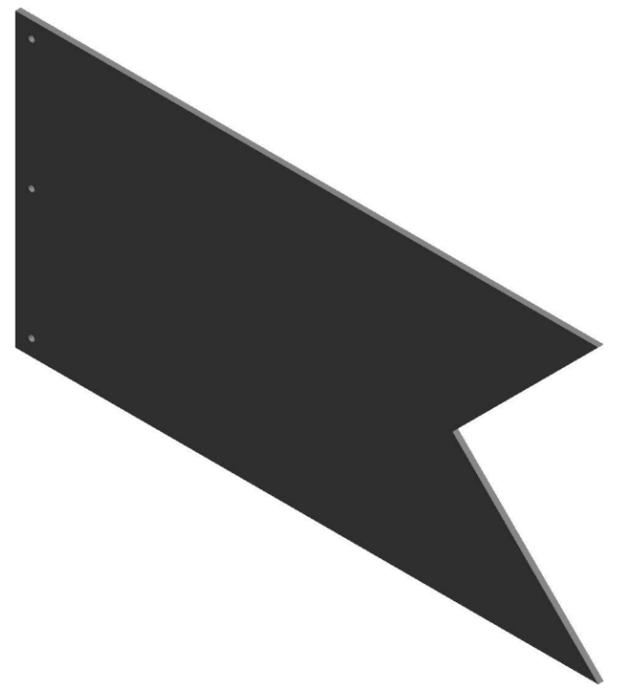
C

B

B

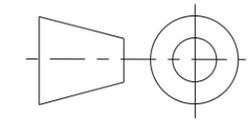
A

A



NOTES:

1. MATERIAL: 4mm COROPLAST, RED OR BLUE



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°
DO NOT SCALE



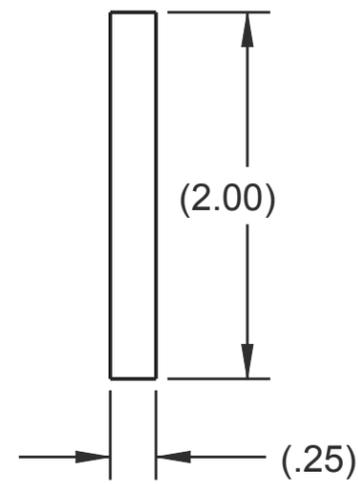
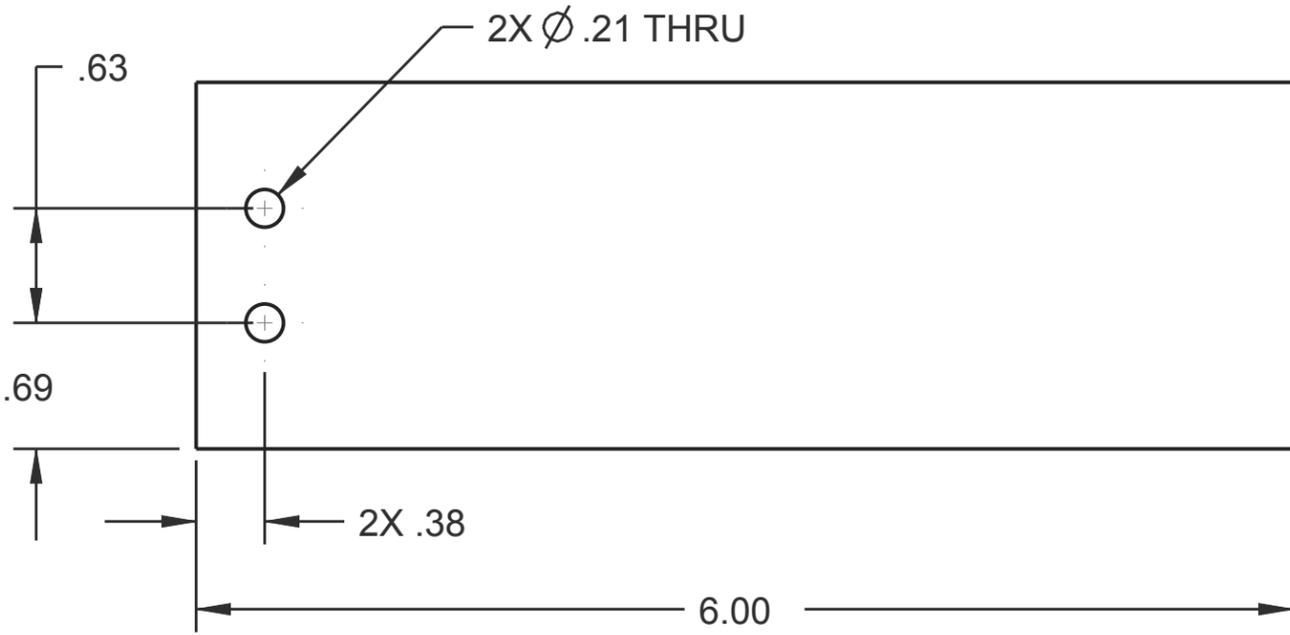
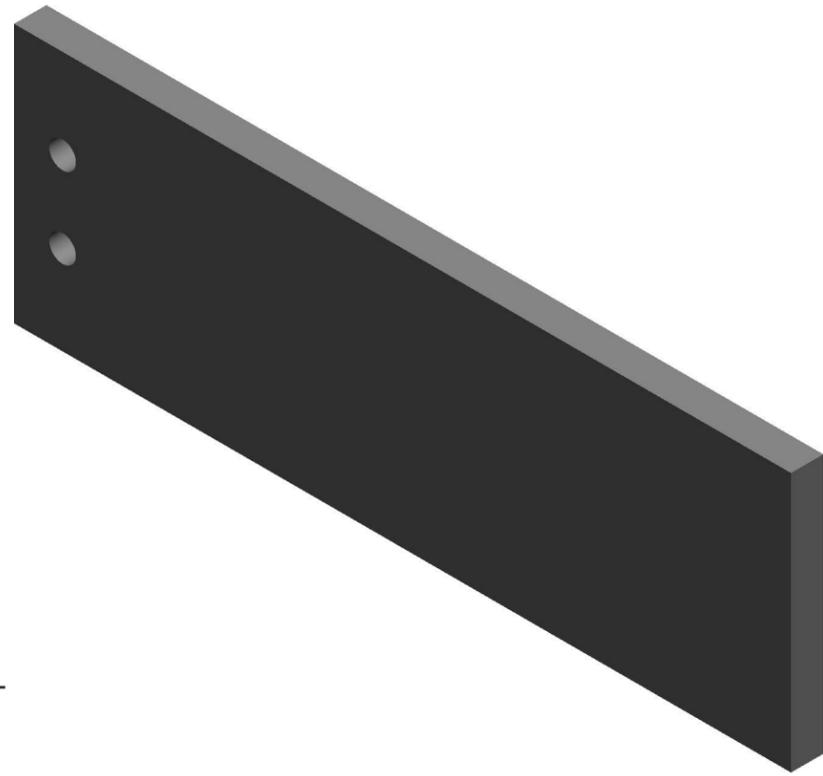
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SCALE 1:4	SHEET 1 OF 1

TITLE FLAG		
PROJECT	MODEL NAME GE-16230	ISSUE

MODEL NAME
GE-16231

TITLE
COUNTERWEIGHT 1

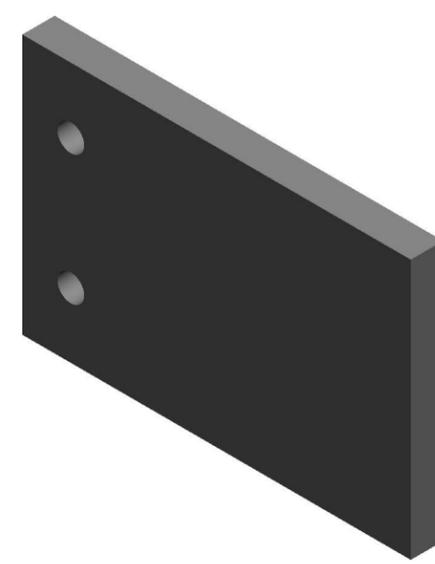
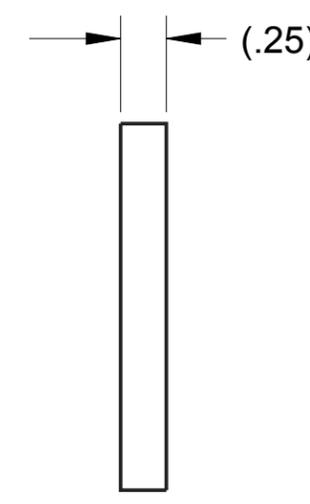
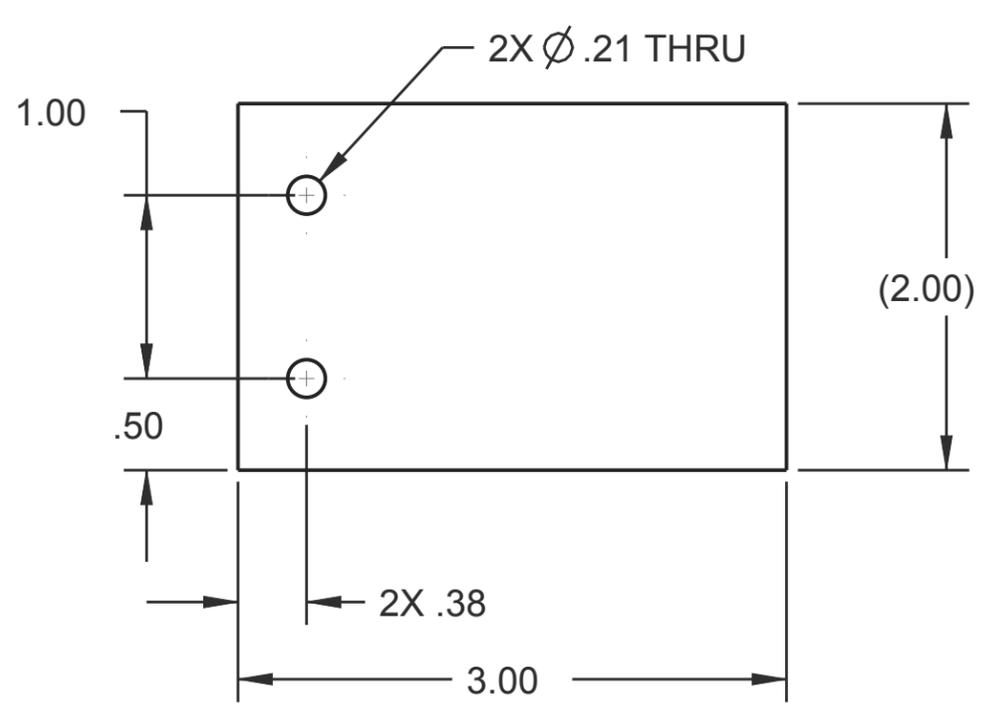


NOTES:
 1. MATERIAL: 1/2" X 2" 1018 STEEL BAR
 2. REMOVE ALL BURRS AND SHARP EDGES

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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>	TITLE COUNTERWEIGHT 1	
DO NOT SCALE	PROJECT	MODEL NAME GE-16231
		ISSUE

MODEL NAME
GE-16232

TITLE
COUNTERWEIGHT 2



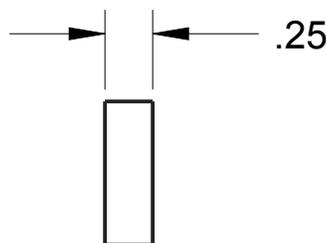
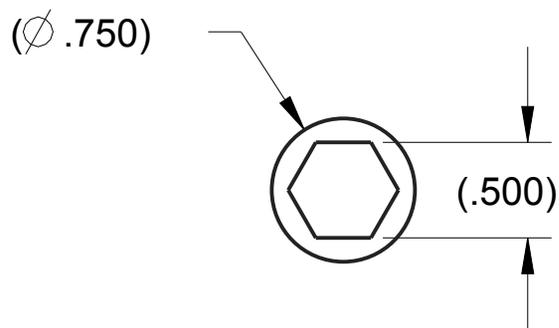
NOTES:
1. MATERIAL: 1/2" X 2" 1018 STEEL BAR
2. REMOVE ALL BURRS AND SHARP EDGES.

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<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE: X.X +/- 0.1 X.XX +/- 0.01 X.XXX +/- 0.001 ANG +/- 1°</small>		TITLE COUNTERWEIGHT 2	
DO NOT SCALE		PROJECT	MODEL NAME GE-16232 ISSUE

MODEL NAME
GE-16233

TITLE

SPACER 2



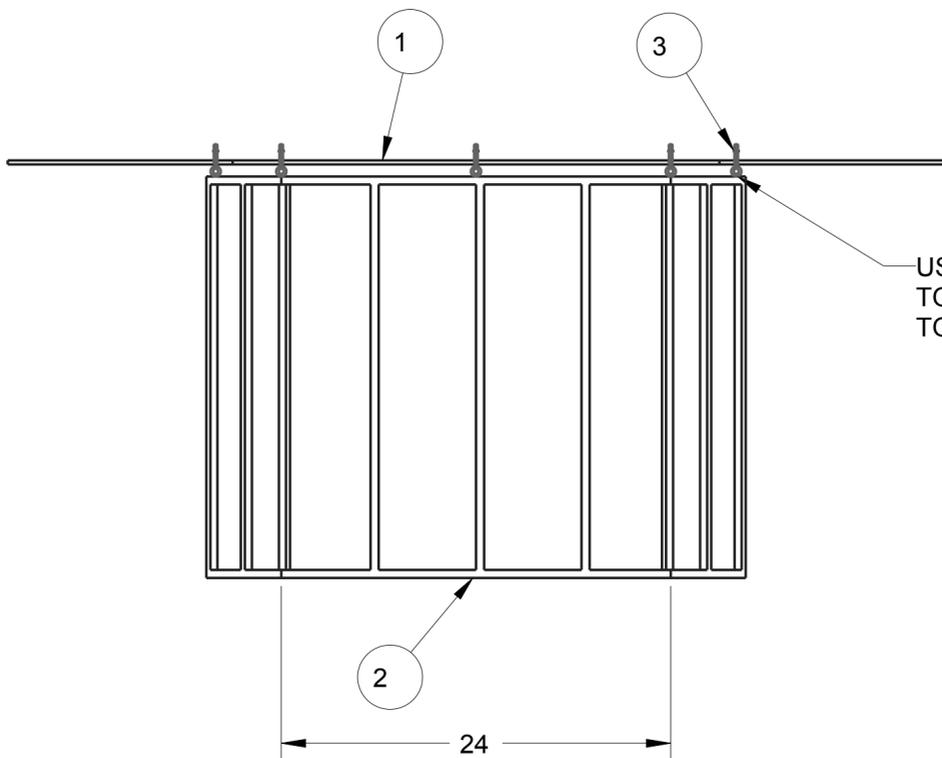
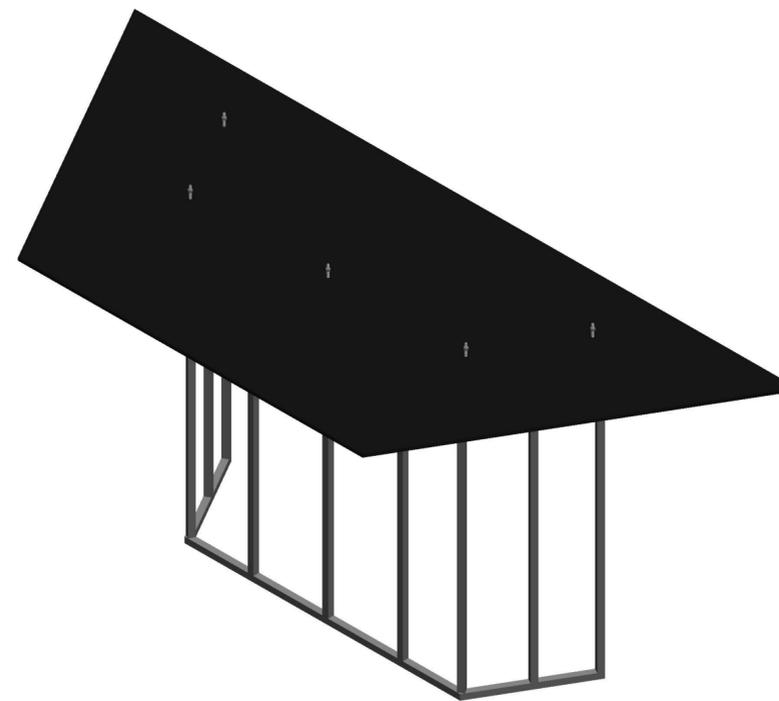
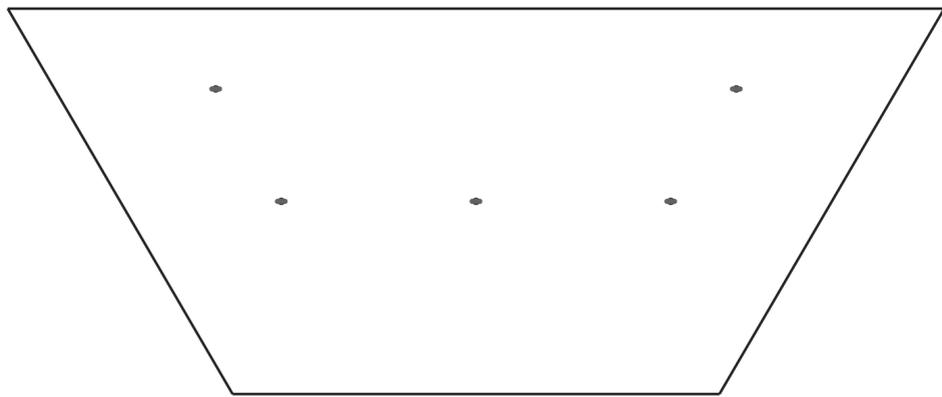
NOTES:

- 1. MATERIAL: ACETAL, BLACK
- 2. VEX PART NUMBER: 217-3259

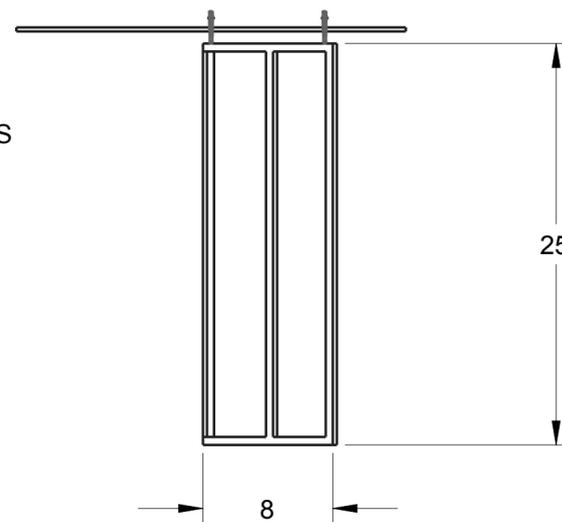
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TITLE SPACER 2			
PROJECT		MODEL NAME GE-16233	ISSUE
DO NOT SCALE			

MODEL NAME
GE-16235

TITLE
TOWER ROOF ASSEMBLY



USE CABLE TIES OR CARABEENERS
TO ATTACH CHAIN TOGETHER AND
TO EYELETS. 18 PLACES



ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16213	1	ROOF, TOWER	
2	GE-16235-01	1	CHAIN ASSEMBLY	26 ft. of #2/0 Straight Link Chain
3	HW-00115	5	EYELET, #10-24	

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TITLE TOWER ROOF ASSEMBLY		
PROJECT		MODEL NAME GE-16235
ISSUE		

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TOLERANCES ARE:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1

DO NOT SCALE

MODEL NAME
GE-16236

TITLE
UPPER SCORING RAMP ASSEMBLY

1

2

3

4

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C

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B

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PUNCH/CUT 1/4" HOLE AND INSERT ITEM 3. 2 PLACES

DRILL .19" HOLE AND SECURE ITEM 2 TO ITEM 1 WITH A 3/16" RIVET. 2 PLACES

1.00

12.00

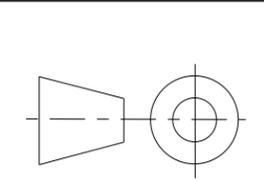
15.00

3

2

1

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	GE-16106	1	ramp, high goal	
2	GE-16236-01	2	1" Nylon Webbing	12" Lengths
3	HW-00089	2	1/4"-20 Machine Screw, 2.5" Long	



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X.XXX +/- 0.001
ANG +/- .1°

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APPROVED BY	DATE
SCALE 1:8	SHEET 1 OF 1

TITLE UPPER SCORING RAMP ASSEMBLY		
PROJECT	MODEL NAME GE-16236	ISSUE

1

2

3

4

MODEL NAME
GE-16241

TITLE
Spacer, U-Bolt

1

2

3

4

D

D

C

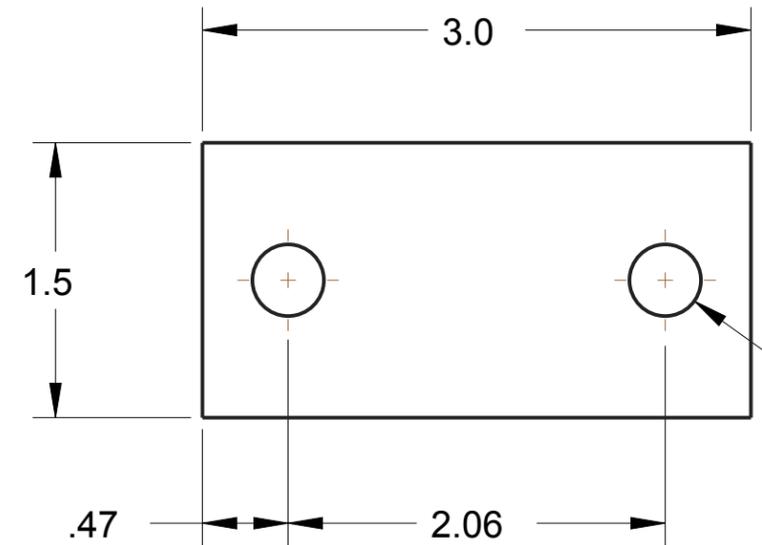
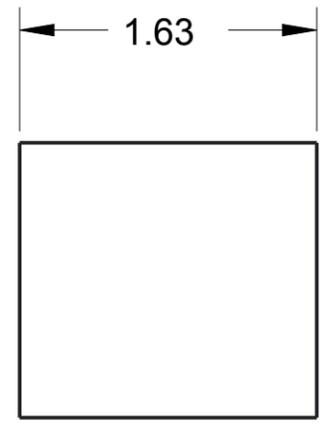
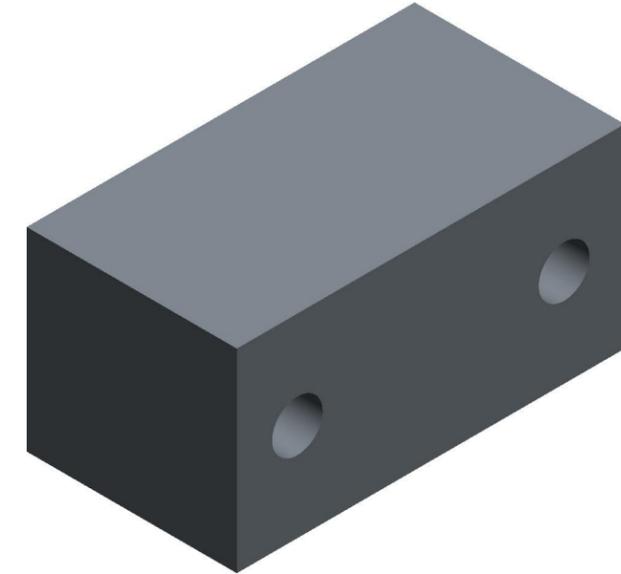
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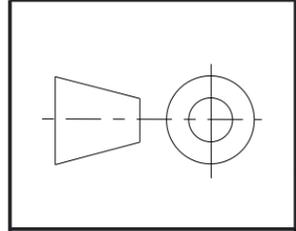
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2X \varnothing .39
Thru

Notes:
1. Material: Pine or other type of wood



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X.XXX +/- 0.001
ANG +/- 1°

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SCALE 1:1	SHEET 1 OF 1

TITLE Spacer, U-Bolt		
PROJECT	MODEL NAME GE-16241	ISSUE

1

2

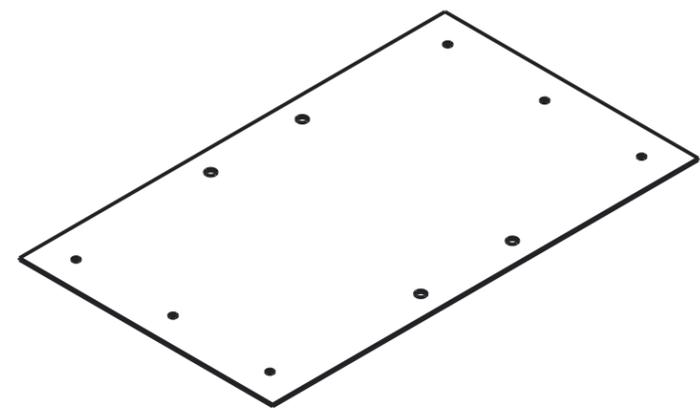
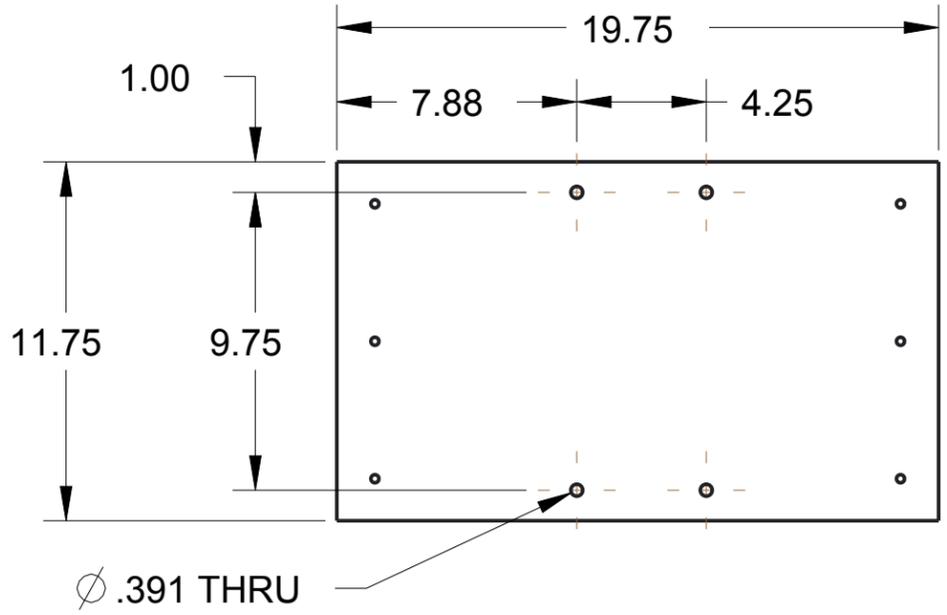
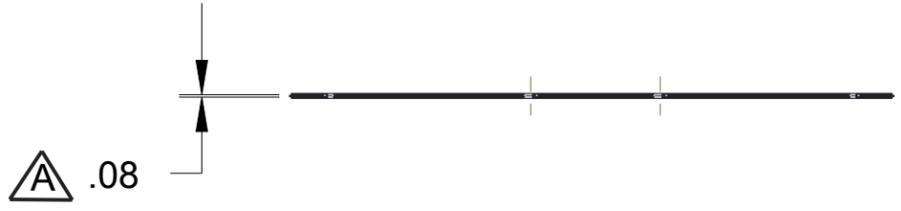
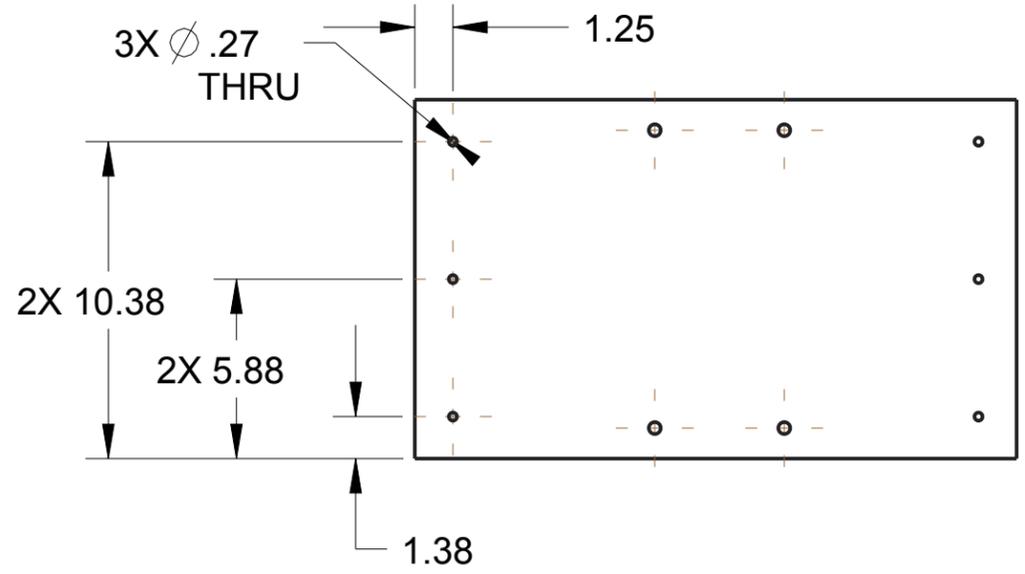
3

4

MODEL NAME
GE-16239

TITLE
Plate, Cheval de Frise

Rev	Zone	Description	Date	Initial
A	B-1, B-3	Material changed from 13 to 14 Ga.	3/31/16	DAF



NOTE

A Material: 14 Ga. Galvanized Steel
Scale: 1:6

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TITLE Plate, Cheval de Frise		
PROJECT		MODEL NAME GE-16239
DO NOT SCALE		ISSUE

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X.XX +/- 0.01
X.XXX +/- 0.001
ANG +/- 1°

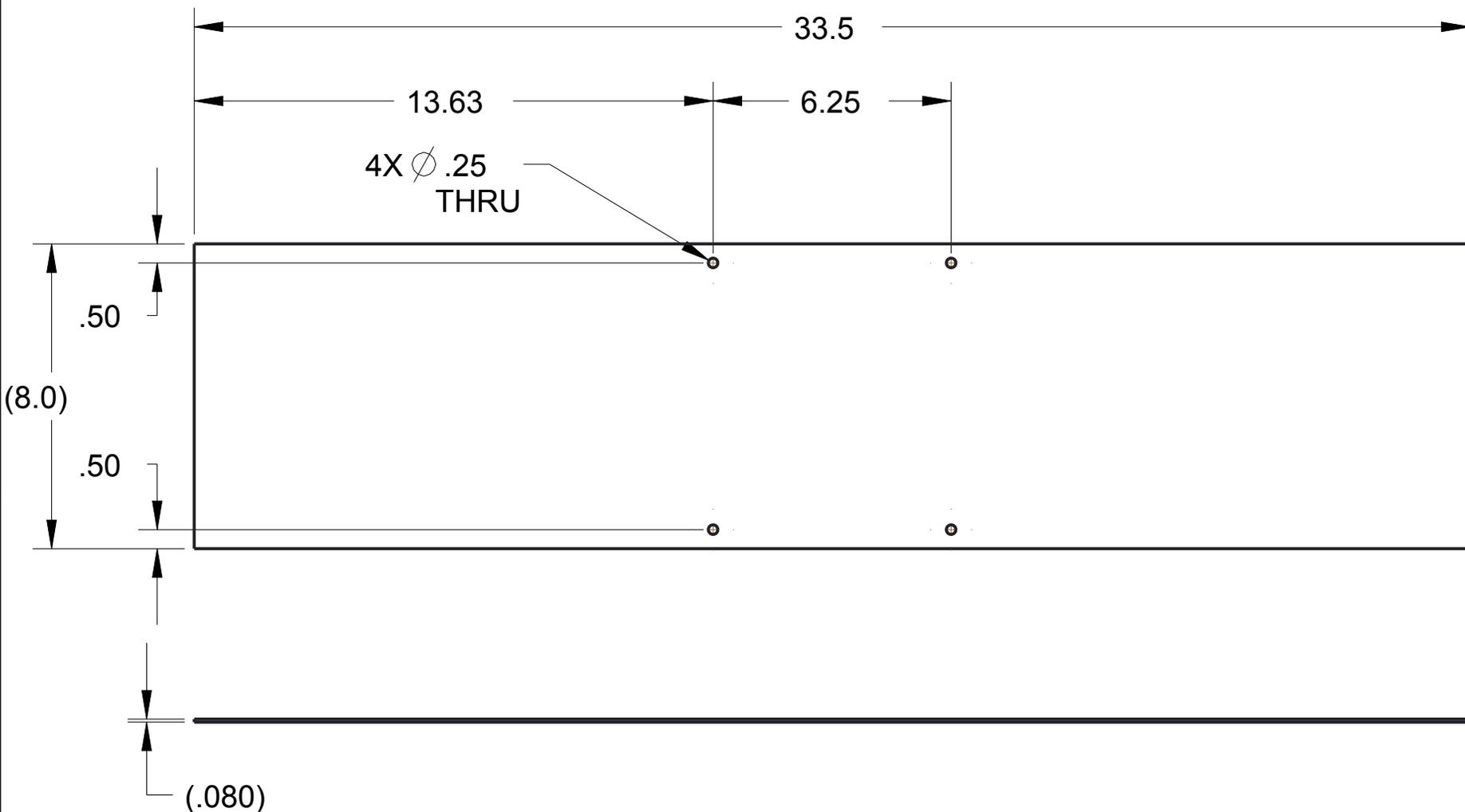
MODEL NAME
GE-16242

TITLE

Low Bar Flap

B

B

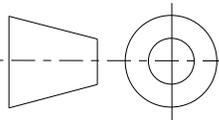


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A

Notes:

1. Material: .080" thick x 8" wide nylon, opaque black
2. McMaster PN: 1894A214

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DO NOT SCALE			
TITLE Low Bar Flap			
PROJECT		MODEL NAME GE-16242	ISSUE

1

2