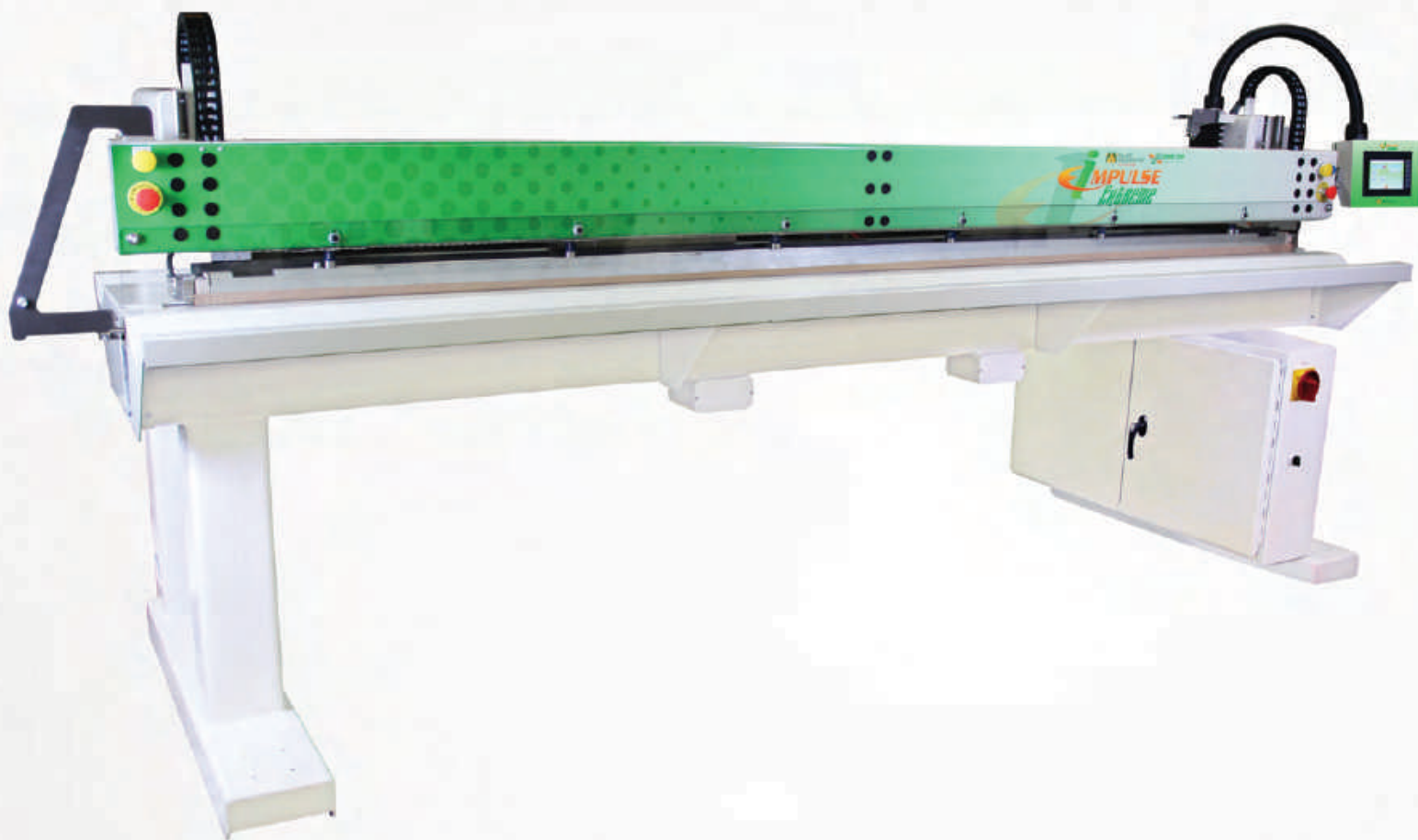




PARTS DIAGRAM



IMPORTANT FOR FUTURE REFERENCE

Please complete this information and retain this manual for the life of the equipment:

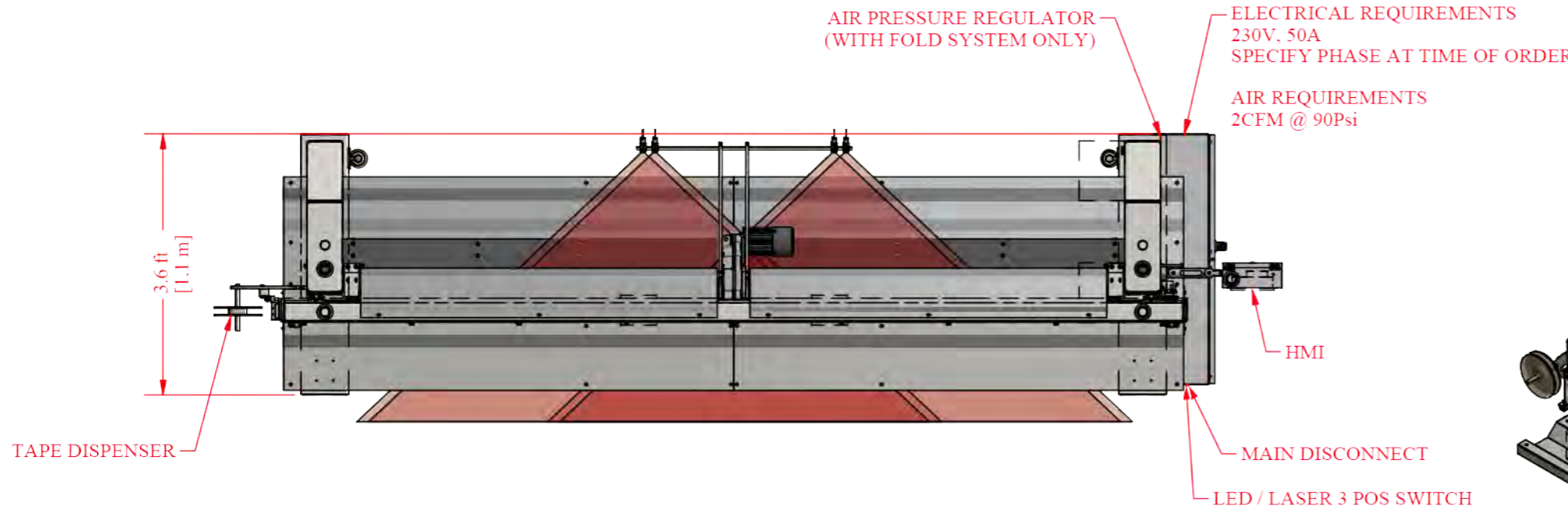
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Serial #: _____

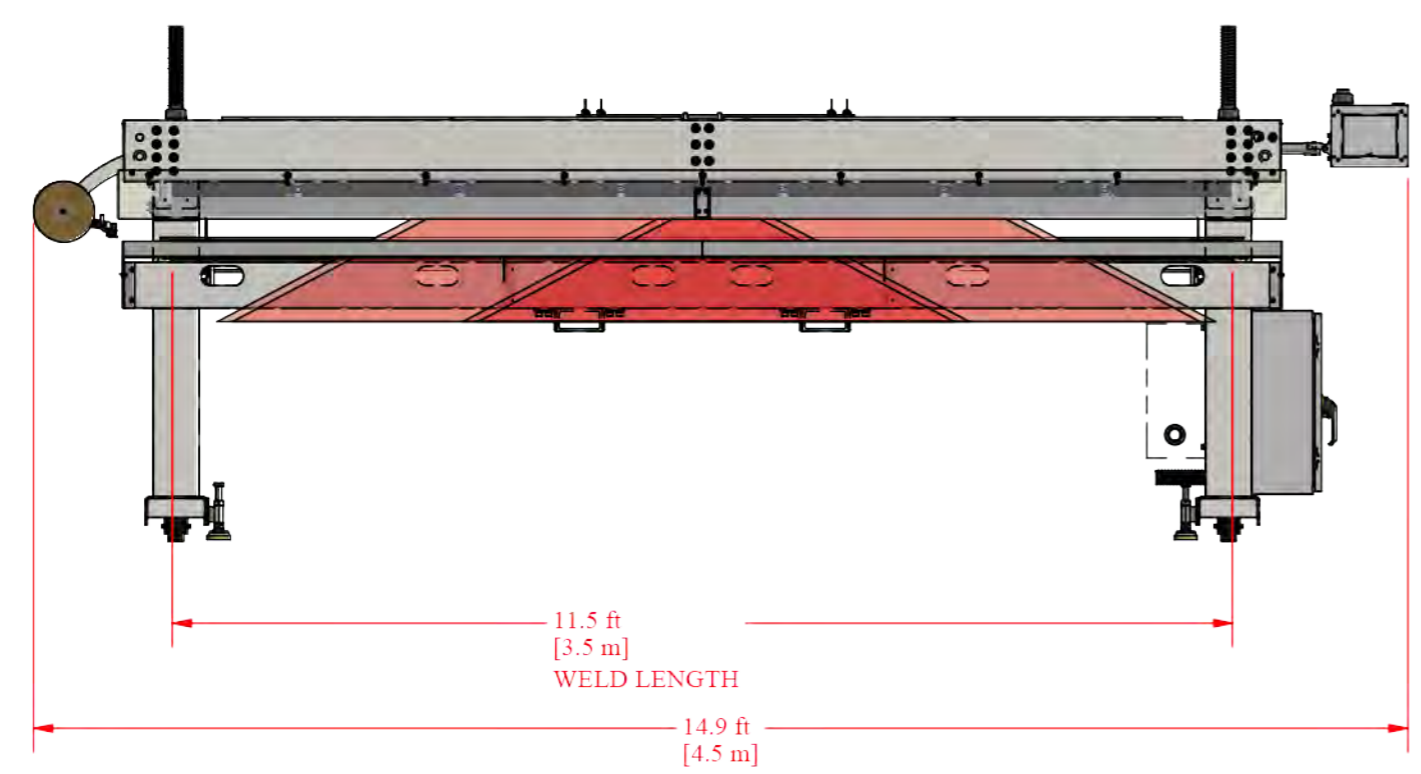
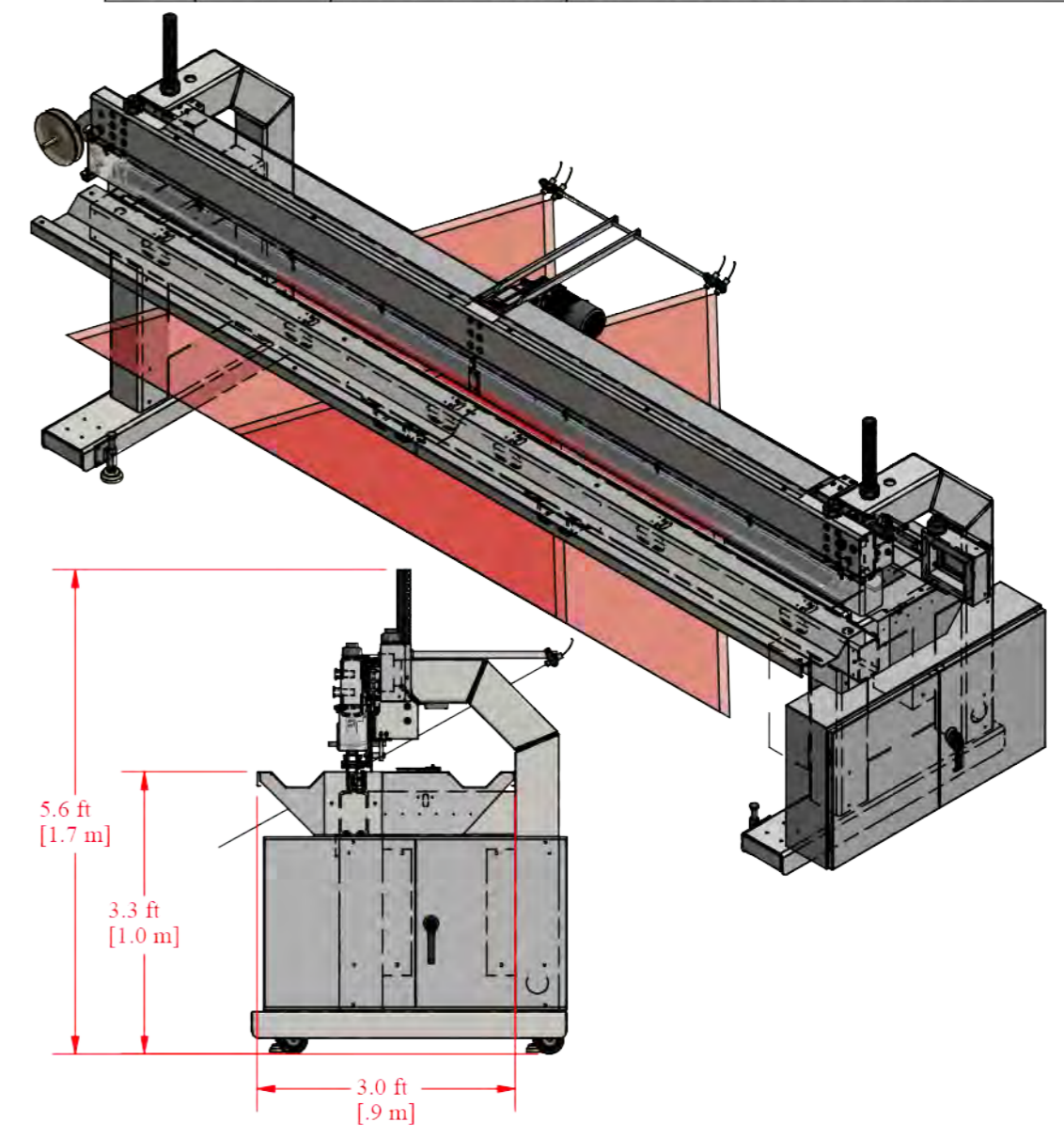
Date Purchased: _____



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ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	A-IMP3-248-406531	LOWER FOLD ASSY
2	1	A-IMP3-530-406527	TROUGH ASSY W/ FOLD SYSTEM
3	1	A-IMP3-248-406533	UPPER FOLD ASSY
4	1	A-IMP3-240-406532	3.5M DRIVE SYSTEM ASSY
5	1	A-IMP3-165-404719	CONTROLS ASSY
6	1	A-IMP3-630-406529	3.5 METER, 25MM UPPER WELD BAR ASSY
7	1	A-IMP3-630-406528	3.5 METER, 25MM LOWER WELD BAR ASSY
8	1	A-IMP3-320-406530	GUARDING, COVERS, & FINAL ASSY
9	1	A-IMP3-248-406560	GRIPPER, FOLD SYSTEM 3.5 METER



REV	DATE	APPROVED	DESCRIPTION
1	1/2/2020	JJS	UPDATED DRAWING TO SHOW CHANGES TO ACCOMODATE AN ADDITIONAL MOTOR.

REVISION HISTORY

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Complete Machines\A-IMP3-000-406526.dwg

MILLER WELDMASTER CORPORATION

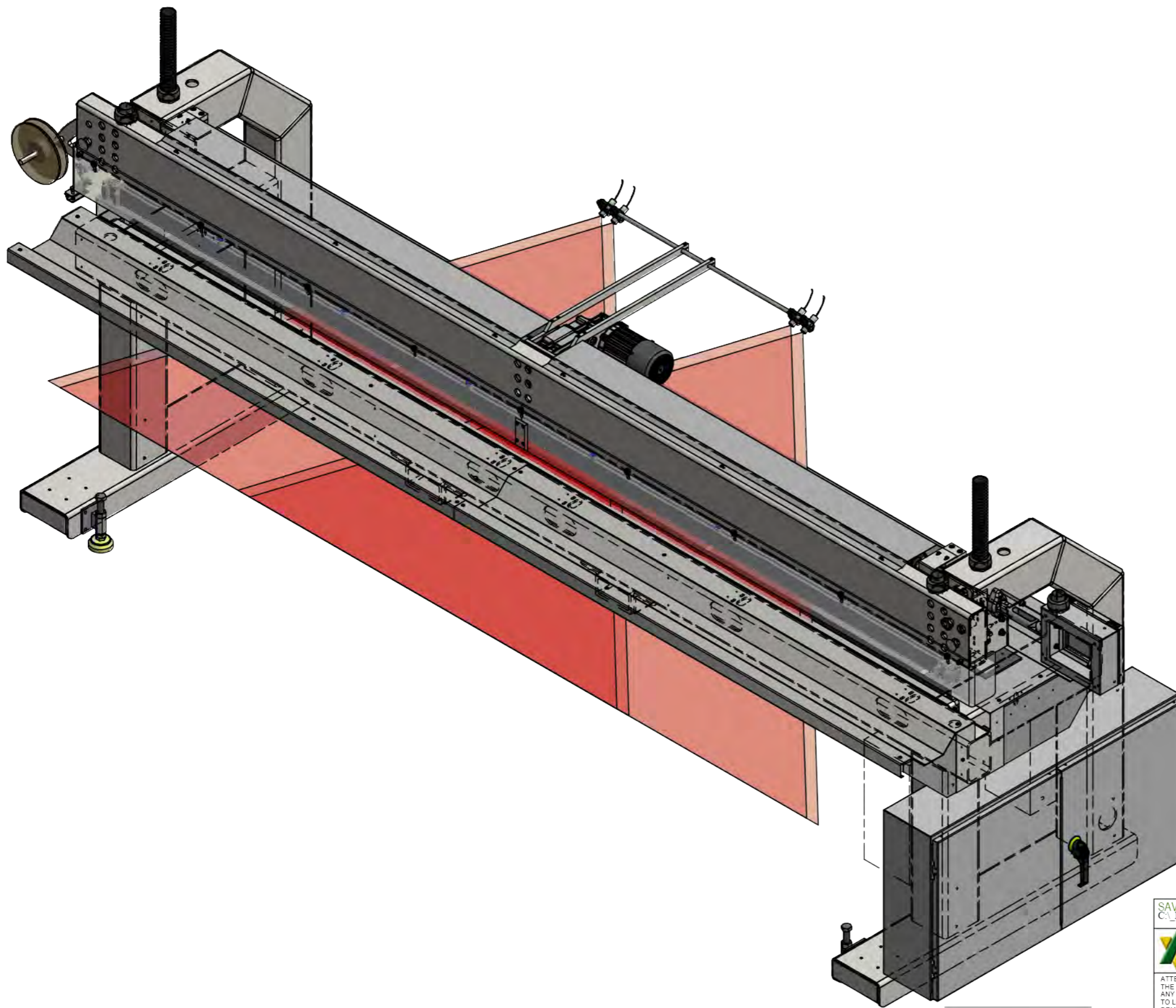
CUSTOMER: MILLER WELDMASTER


DESCRIPTION: IMPULSE 3.5 METER GEN 3 W/ FOLD

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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR:	NONE	SHEET 1 OF 3
FRACTION +/- 1/16"	zralston	ZR	10/31/2018	PAINT #:	NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	10/31/2018	REVISION #:	1	PART #
.000 +/- .005"	APPROVED	ZR	10/31/2018	SCALE:	1/25	A-IMP3-000-406526
ANGLES +/- 1/4°						

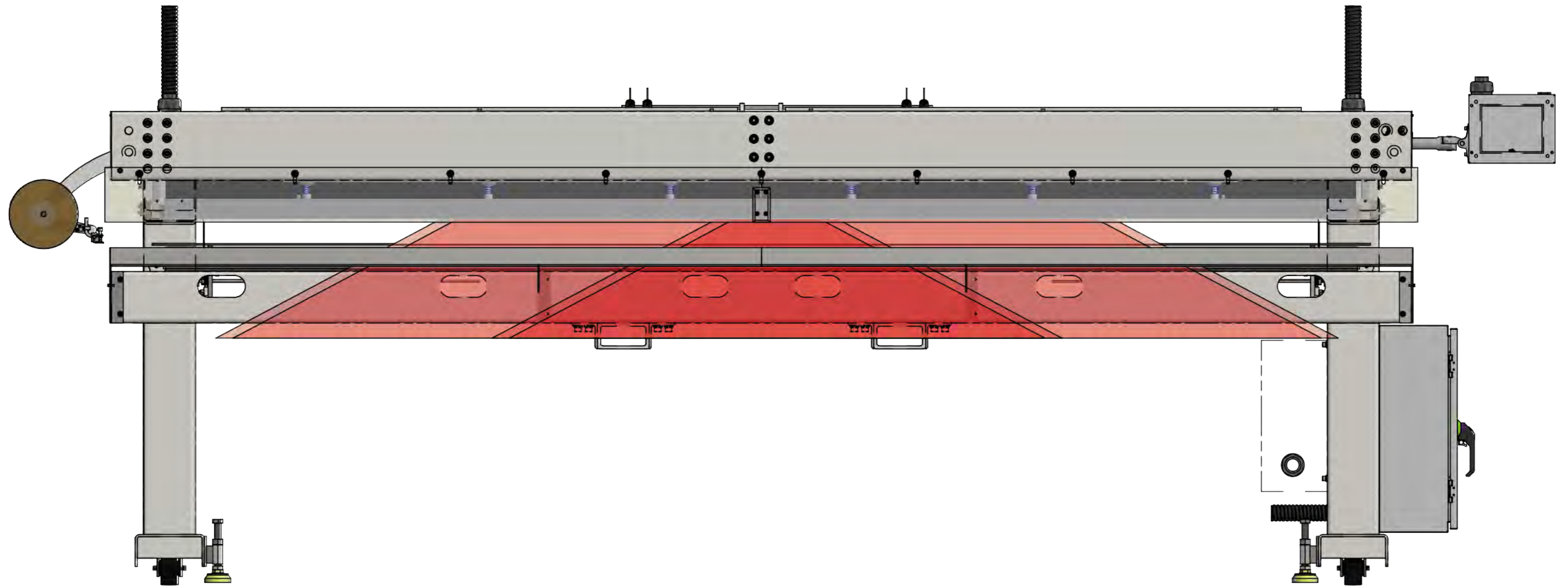
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 <small>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</small>			CUSTOMER: MILLER WELDMASTER		
			DESCRIPTION: IMPULSE 3.5 METER GEN 3 W/ FOLD		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 3
FRACTION +/- 1/16"	DRAWN	zralston	10/31/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	10/31/2018	REVISION #: 1	PART #
.000 +/- .005"	APPROVED	ZR	10/31/2018	SCALE: 1/13	A-IMP3-000-406526
ANGLES +/- 1/4°					

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SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Complete Machines\A-IMP3-000-406526.dwg					
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			DESCRIPTION: IMPULSE 3.5 METER GEN 3 W/ FOLD		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 3 OF 3
FRACTION +/- 1/16"	DRAWN	zralston	10/31/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	10/31/2018	REVISION #: 1	PART #
.000 +/- .005"	APPROVED	ZR	10/31/2018	SCALE: 1/11.5	A-IMP3-000-406526
ANGLES +/- 1/4°					

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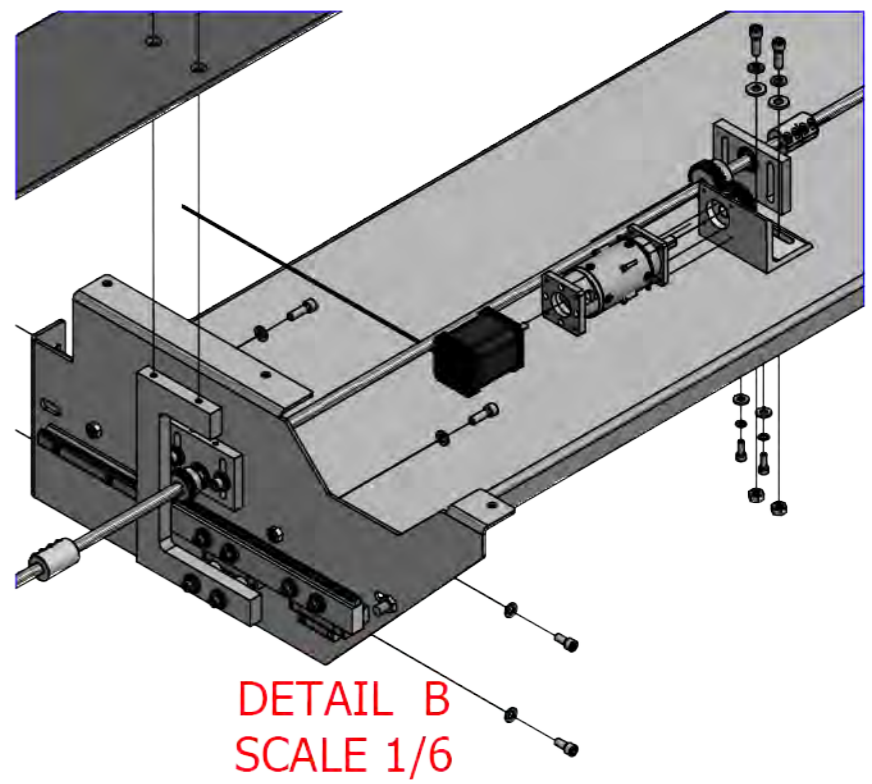
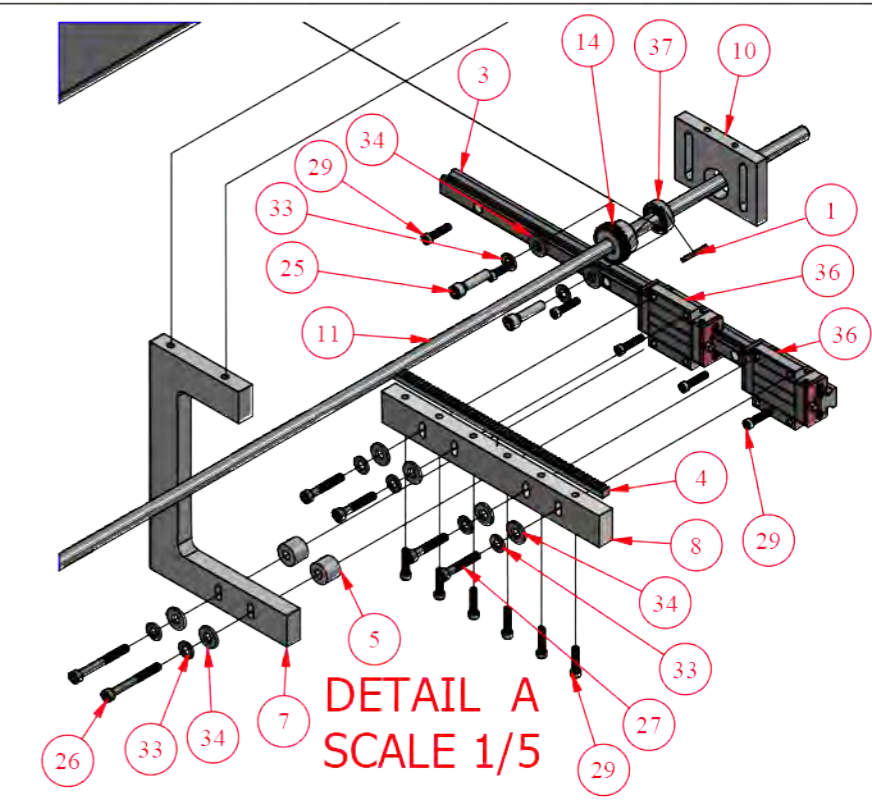
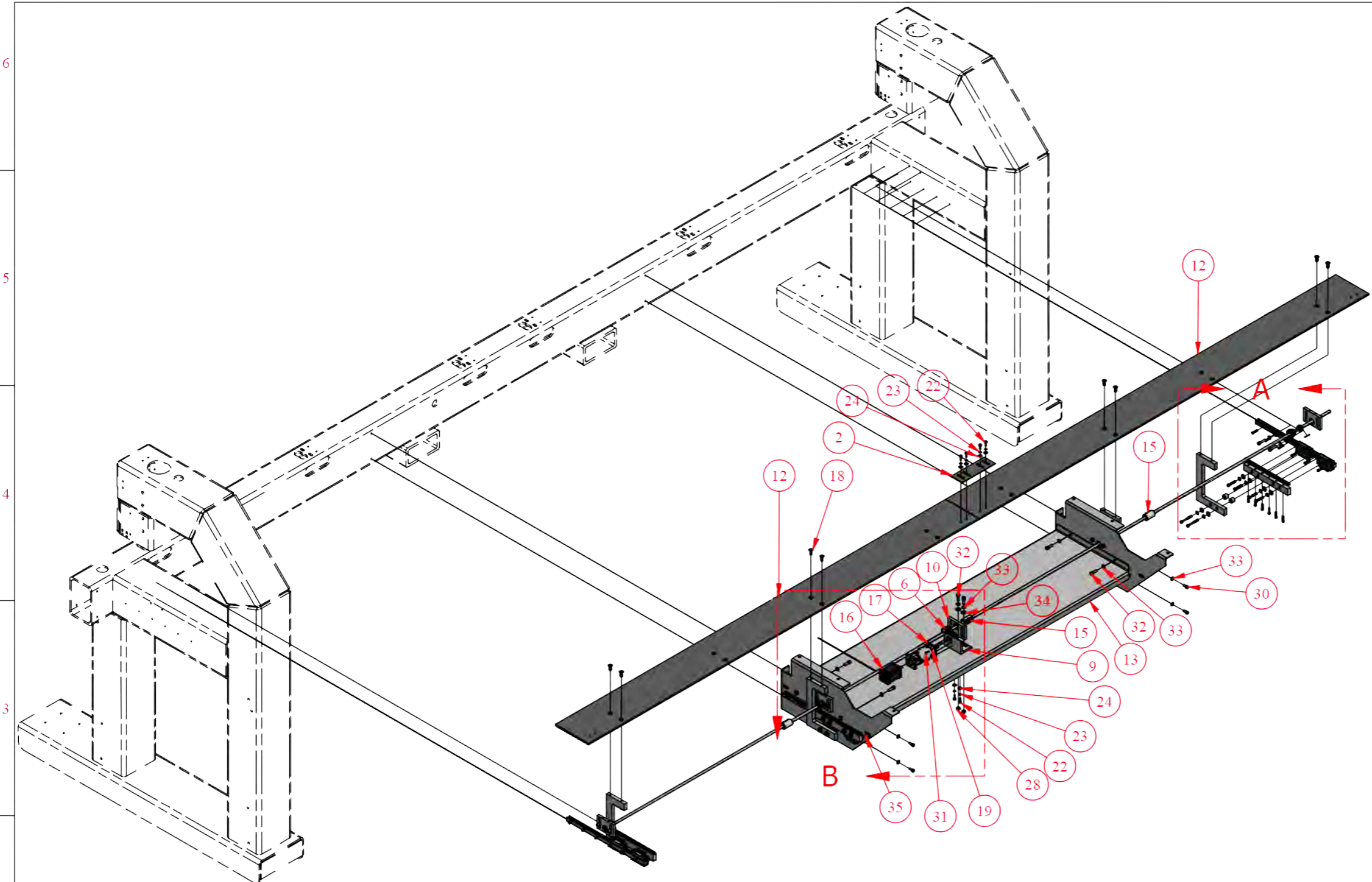
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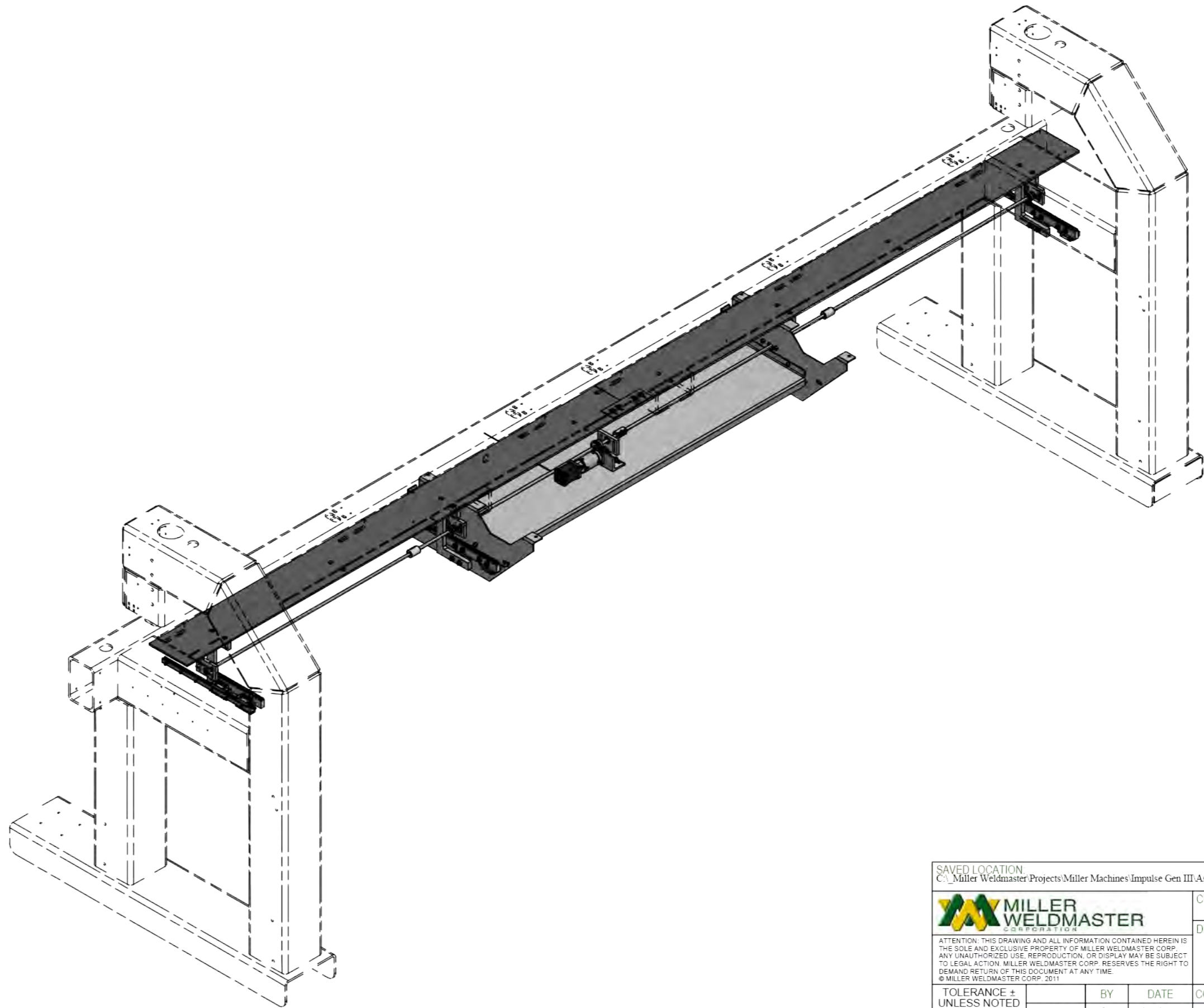
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		CUSTOMER: MILLER WELDMASTER					
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		TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR:	NONE
FRACTION +/- 1/16"	CHECKED	Zralston	5/30/2018	PAINT #	NONE	MASS	N/A
.00 +/- .010"	APPROVED	ZR	1/10/2019	REVISION #:		PART #	
.000 +/- .005"				SCALE:	1/15	A-IMP3-248-406531	
ANGLES +/- 1/4°							

ITEM	ITEM QTY	PART NUMBER	TITLE
1	5	P-PURC-248-407022	OVERSIZED 3/32 SQUARE KEY STOCK .875" LG
2	1	P-IMP3-248-406936	DEAD STOP SPLICE PLATE
3	4	P-IMP3-248-406730	15MM LINEAR BEARING RAIL
4	4	P-IMP3-248-406729	GEAR RACK, 24 PITCH, 14.5 DEG, 6" LG
5	8	P-IMP3-248-406690	ALUM UNTHREADED SPACER FOR 1/4" SCREW, 1/2" LG
6	2	P-IMP3-248-406689	SPUR GEAR, 20P, 25T, 14.5 DEG, FOR 3/8" SHAFT
7	4	P-IMP3-248-406687	DEAD STOP C ARM BRACKET
8	4	P-IMP3-248-406686	LWR FOLD DRIVE SYSTEM RACK MOUNT
9	1	P-IMP3-248-406685	LWR FOLD DRIVE MOTOR MOUNT
10	5	P-IMP3-248-406684	BEARING BLOCK, LWR DEAD STOP DRIVE SYSTEM
11	4	P-IMP3-248-406683	LWR FOLD DEAD STOP DRIVE SHAFT
12	2	P-IMP3-248-406676	DEAD STOP, 3.5 METER IMPULSE
13	1	P-IMP3-248-406674	DEAD STOP DRIVE MOUNT
14	4	P-IMP3-248-406597	SPUR GEAR, 24 PITCH, 24T, 14.5 DEG, FOR 3/8" SHAFT
15	3	P-IMP3-248-406117	CLAMPING SHAFT COUPLING STAINLESS FOR 3/8" SHAFTS
16	1	P-IMP3-248-404003	STEPPER MOTOR NEMA 17, 2A, 115 OZ-IN, 200 STEPS PER REV
17	1	P-IMP3-248-404002	PRECISION GEARBOX 50:1, .375" SHAFT OUTPUT 142 IN-LB
18	8	FAST	HSFCHCS - 1-4-20 UNC - .75 Lg
19	4	FAST	SPLIT LOCK WASHER - 4
20	12	FAST	HN - 8-32 UNC
21	12	FAST	SPLIT LOCK WASHER - 8
22	6	FAST	HSHCS - 10-32 UNF - .5 Lg
23	6	FAST	SPLIT LOCK WASHER - 10
24	6	FAST	WASHER - 10
25	8	FAST	HSHCS - 1-4-20 UNC - 1 Lg
26	8	FAST	HSHCS - M5X0.8 - 45 Lg
27	16	FAST	HSHCS - M5X0.8 - 30 Lg
28	10	FAST	HN - 1-4-20 UNC
29	48	FAST	HSHCS - 8-32 UNC - .75 Lg
30	4	FAST	HSHCS - 1-4-20 UNC - .5 Lg
31	4	FAST	HSHCS- 4-40 UNC - .5 Lg
32	6	FAST	HSHCS - 1-4-20 UNC - .75 Lg
33	42	FAST	SPLIT LOCK WASHER - 1-4
34	34	FAST	WASHER FOR 1/4 SCREW SIZE
35	1	390966	START/STOP SWITCH
36	8	382876	HIWIN 15MM CASSETTE WITH Z-0 PRELOAD
37	6	370036	3/8" I.D. X 7/8" O.D. BEARING

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-248-406531.dwg						
 <p>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</p>				CUSTOMER:		
				DESCRIPTION: LOWER FOLD ASSY		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE	SHEET 2 OF 3
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT #	NONE	MASS
.00 +/- .010"	CHECKED	ZR	1/10/2019	REVISION #:		PART #
.000 +/- .005"	APPROVED	ZR	1/10/2019	SCALE:		A-IMP3-248-406531
ANGLES +/- 1/4°						

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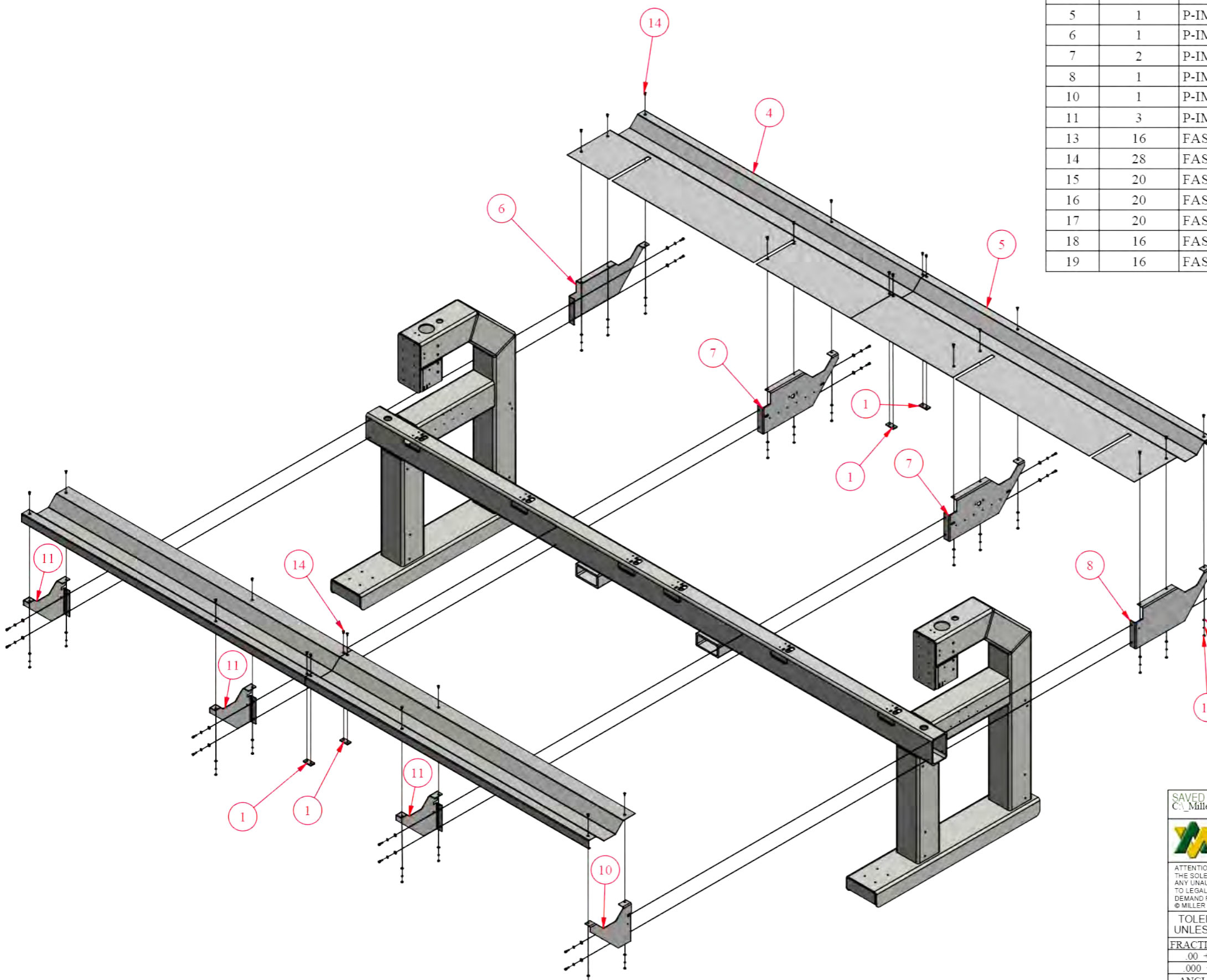


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			DESCRIPTION: LOWER FOLD ASSY		
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 3 OF 3
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT #	NONE
.00 +/- .010"	CHECKED	ZR	1/10/2019	REVISION #:	PART #
.000 +/- .005"	APPROVED	ZR	1/10/2019	SCALE:	1/12
ANGLES +/- 1/4°					A-IMP3-248-406531

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ITEM	ITEM QTY	PART NUMBER	TITLE
1	4	P-IMP3-530-404635	TROUGH CONNECTING BLOCK
2	1	P-IMP3-530-406870	FRONT TROUGH LEFT, 3.5 METER IMPULSE
3	1	P-IMP3-530-406869	FRONT TROUGH RIGHT, 3.5 METER IMPULSE
4	1	P-IMP3-530-406872	REAR TROUGH LEFT, 3.5 METER IMPULSE
5	1	P-IMP3-530-406871	REAR TROUGH RIGHT, 3.5 METER IMPULSE
6	1	P-IMP3-530-403864	REAR TROUGH MOUNT - RIGHT
7	2	P-IMP3-248-406675	REAR TROUGH MOUNT - CENTER
8	1	P-IMP3-530-403862	REAR TROUGH MOUNT - LEFT
10	1	P-IMP3-250-404233	TROUGH MOUNT - RIGHT
11	3	P-IMP3-250-404232	TROUGH MOUNT - LEFT
13	16	FAST	SHCS - 1-4-20 UNC - .75 Lg
14	28	FAST	HSFCHCS - 10-32 UNF - .5 Lg
15	20	FAST	HN - 10-32 UNF
16	20	FAST	SPLIT LOCK WASHER - 10
17	20	FAST	WASHER - 10
18	16	FAST	SPLIT LOCK WASHER - 1-4
19	16	FAST	WASHER FOR 1/4 SCREW SIZE

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-530-406527.dwg

MILLER WELDMASTER CORPORATION

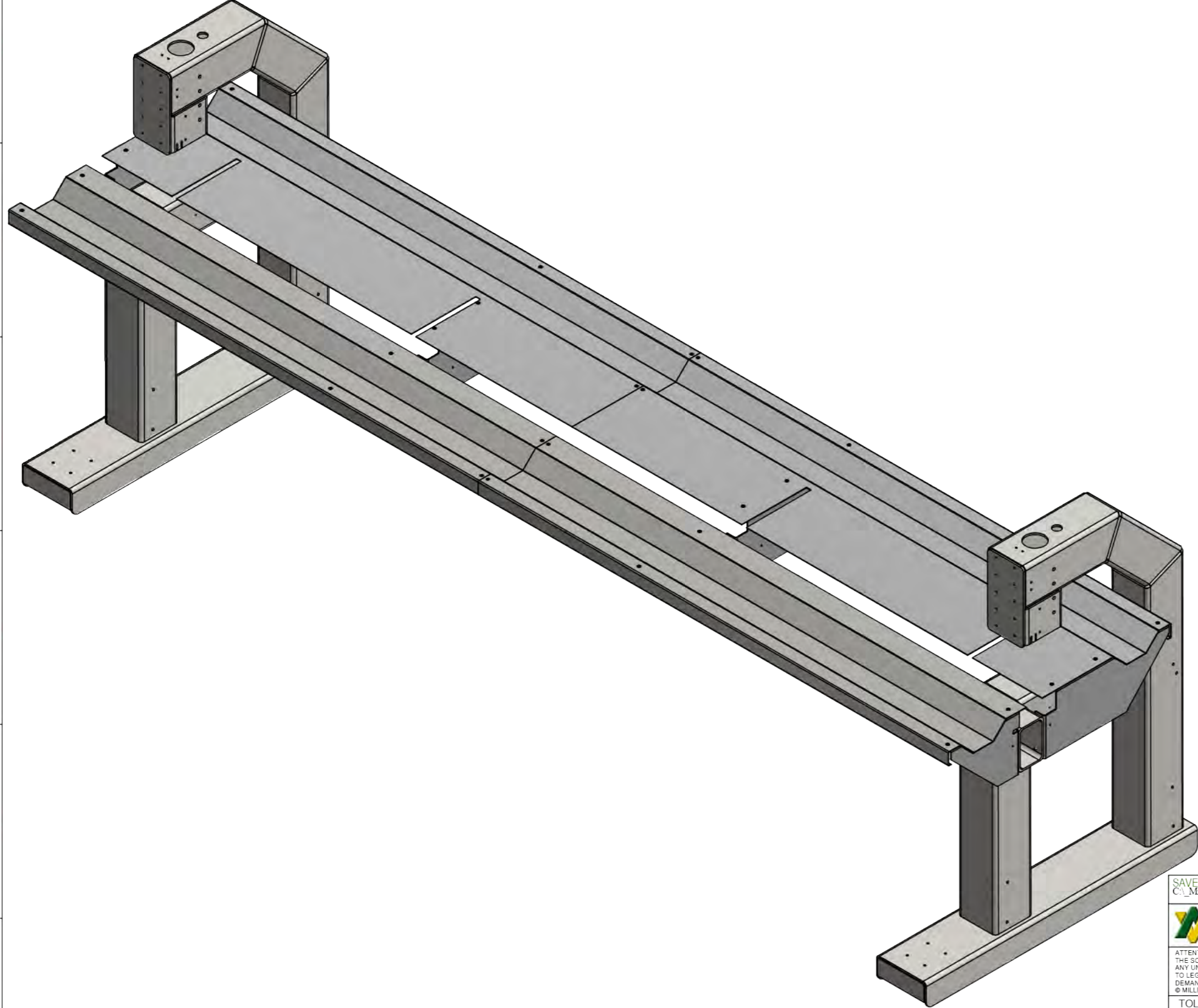
CUSTOMER: MILLER WELDMASTER

DESCRIPTION: TROUGH ASSY W/ FOLD SYSTEM

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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 1 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT#	NONE
.00 +/- .010"	CHECKED	ZR	6/4/2018	REVISION#:	0
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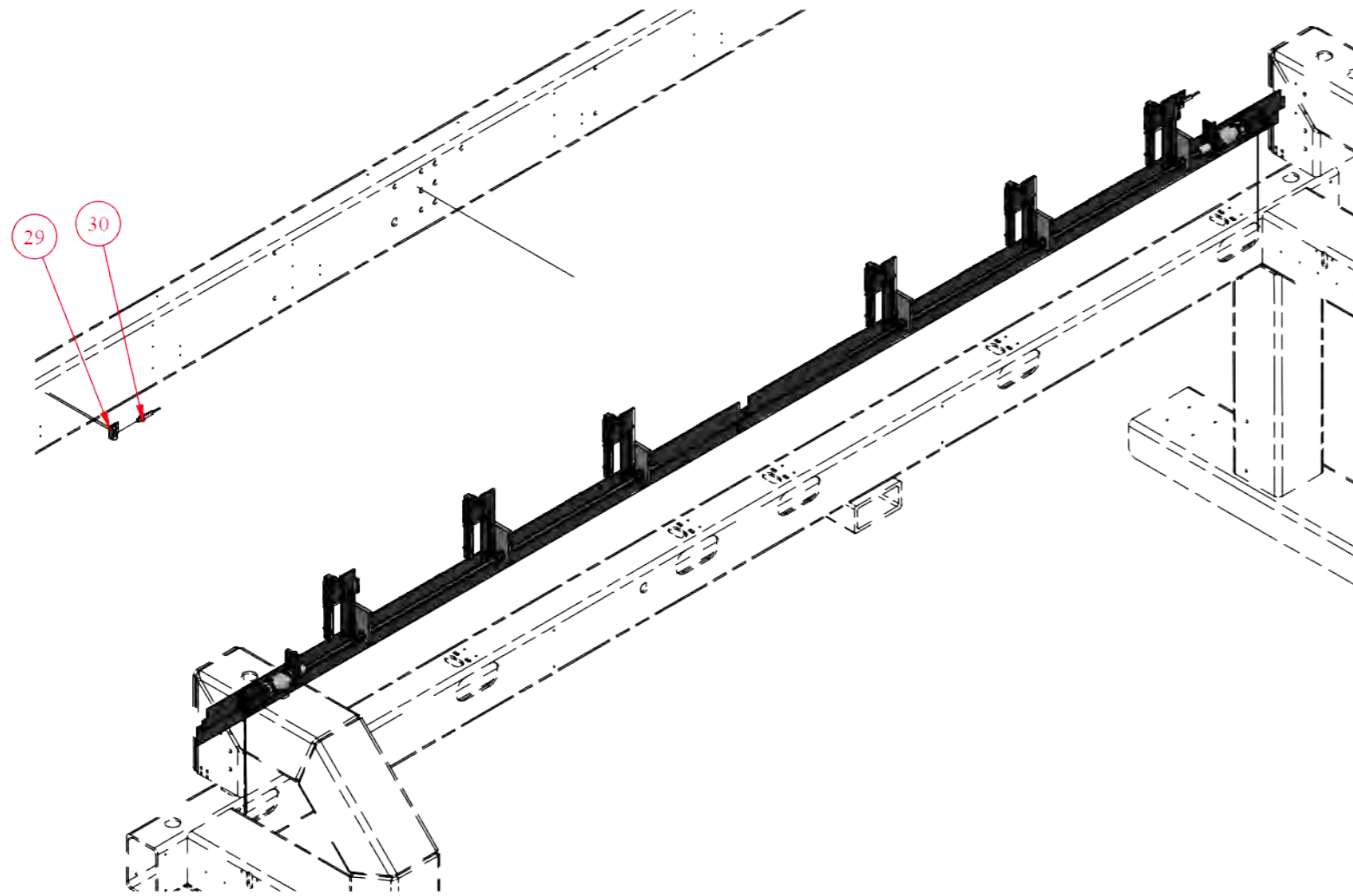
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SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-530-406527.dwg					
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			DESCRIPTION: TROUGH ASSY W/ FOLD SYSTEM		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/4/2018	REVISION #: 0	PART #
.000 +/- .005"	APPROVED	ZR	6/4/2018	SCALE: 1/12	A-IMP3-530-406527
ANGLES +/- 1/4°					



ITEM	ITEM QTY	PART NUMBER	TITLE
1	6	P-PURC-248-407030	OVERSIZED 3/32 SQUARE KEY STOCK 1.875" LG
2	2	P-IMP3-248-406868	SENSOR TRIP PLATE
3	6	P-IMP3-248-406600	BEARING BLOCK, DEPTH PLATE DRIVE SYSTEM
4	6	P-IMP3-248-406599	GEAR RACK, 24 PITCH, 14.5 DEG, 6" LG
5	6	P-IMP3-248-406597	SPUR GEAR, 24 PITCH, 24T, 14.5 DEG, FOR 3/8" SHAFT
6	6	P-IMP3-248-406596	LINEAR RAIL TO RACK ADAPTER
7	6	P-IMP3-248-406595	15MM LINEAR BEARING RAIL 6.75" LG
8	2	P-IMP3-248-406551	PUSH BAR
9	2	P-IMP3-248-406117	CLAMPING SHAFT COUPLING STAINLESS FOR 3/8" SHAFTS
10	2	P-IMP3-248-404003	STEPPER MOTOR NEMA 17, 2A, 115 OZ-IN, 200 STEPS PER REV
11	2	P-IMP3-248-404002	PRECISION GEARBOX 50:1, .375" SHAFT OUTPUT 142 IN-LB
12	2	P-IMP3-240-406997	UPPER FOLD SYSTEM GEARBOX MOUNTING PLATE
13	2	4I410846	IMPULSE GEN. III 3.5M UPPER FOLD SYSTEM OUTER SHAFT
14	12	FAST	HSHCS- 4-40 UNC - .625 Lg
15	4	FAST	10-32 UNF x 0.875" LG., SOCKET HEAD CAP SCREW
16	4	FAST	#10 LOCK WASHER
17	4	FAST	No. 10 Type A, FLAT WASHER
18	24	FAST	1/4" SST FLAT WASHER, NARROW
19	24	FAST	M5x0.8 x 20mm LG., SOCKET HEAD CAP SCREW
20	24	FAST	1/4" LOCK WASHER
21	18	FAST	8-32 UNC x 0.75" LG., SOCKET HEAD CAP SCREW
22	12	FAST	8-32 UNC x 2" LG., SOCKET HEAD CAP SCREW
23	8	FAST	HN - 4-40 UNC
24	8	FAST	SPLIT LOCK WASHER - 4
25	8	FAST	WASHER - 4
26	24	FAST	8-32 UNC x 0.5" LG., SOCKET HEAD CAP SCREW
27	24	FAST	#8 LOCK WASHER
28	24	FAST	No. 8 - Type A, FLAT WASHER
29	2	E-IMP3-240-404241	RIGHT ANGLE BRACKET PROX SENSOR
30	2	390966	START/STOP SWITCH
31	6	382876	HIWIN 15MM CASSETTE WITH Z-0 PRELOAD
32	6	370036	3/8" I.D. X 7/8" O.D. BEARING



REV	DATE	APPROVED	DESCRIPTION
1	1/2/2020	JJS	REMOVED TIE BAR. REMOVED 2 QTY FOR ITEM 9. ADDED 2 QTY TO ITEMS 1,4,5,6,7,31. ADDED 1 QTY TO ITEMS 2,10,11,12,29,30. ADDED 4I410864

SAVED LOCATION:
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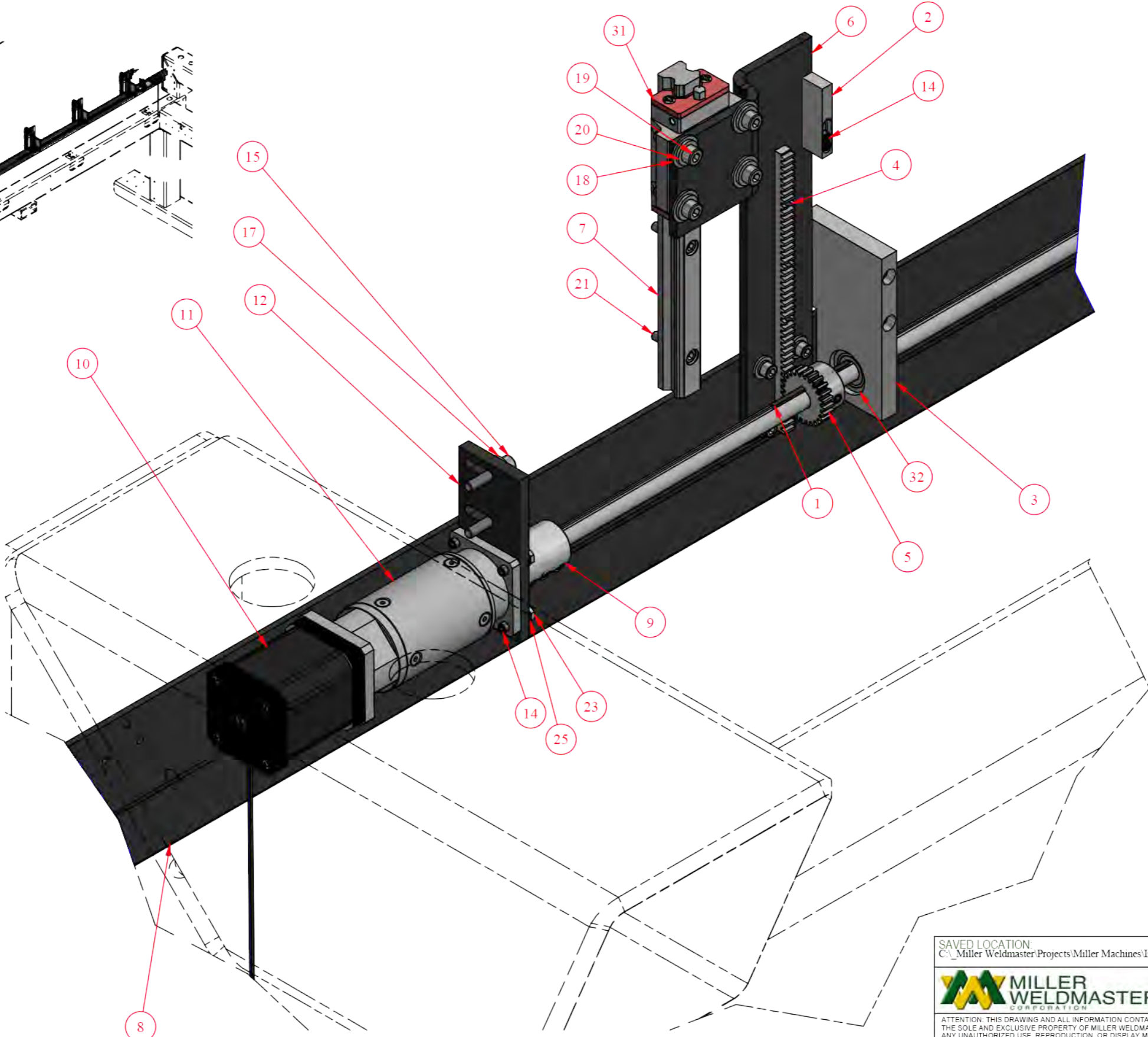
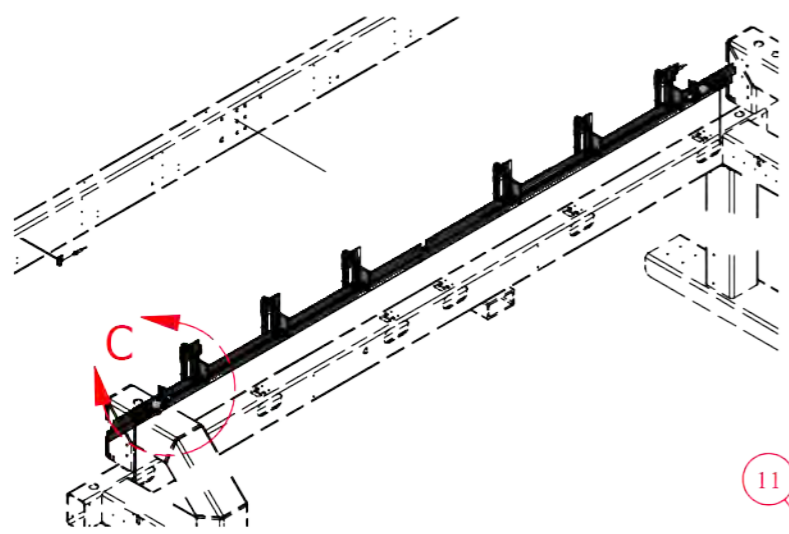
CUSTOMER: MILLER WELDMASTER

DESCRIPTION: UPPER FOLD ASSY

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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR	NONE	SHEET 1 OF 4
FRACTION +/- 1/16"	CHECKED	ZR	5/30/2018	PAINT #	NONE	MASS N/A
.00 +/- .010"	APPROVED	ZR	6/1/2018	REVISION #:	1	PART #
.000 +/- .005"				SCALE	1/15	A-IMP3-248-406533
ANGLES +/- 1/4°						

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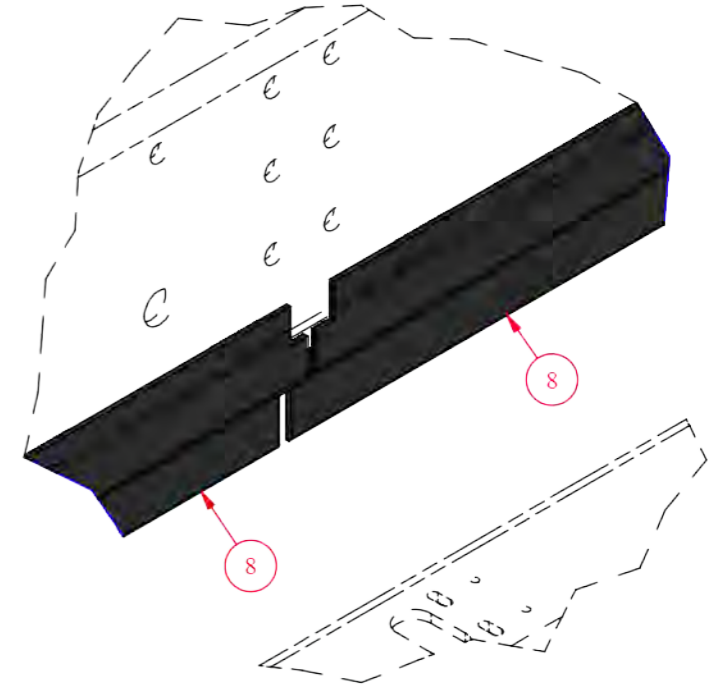
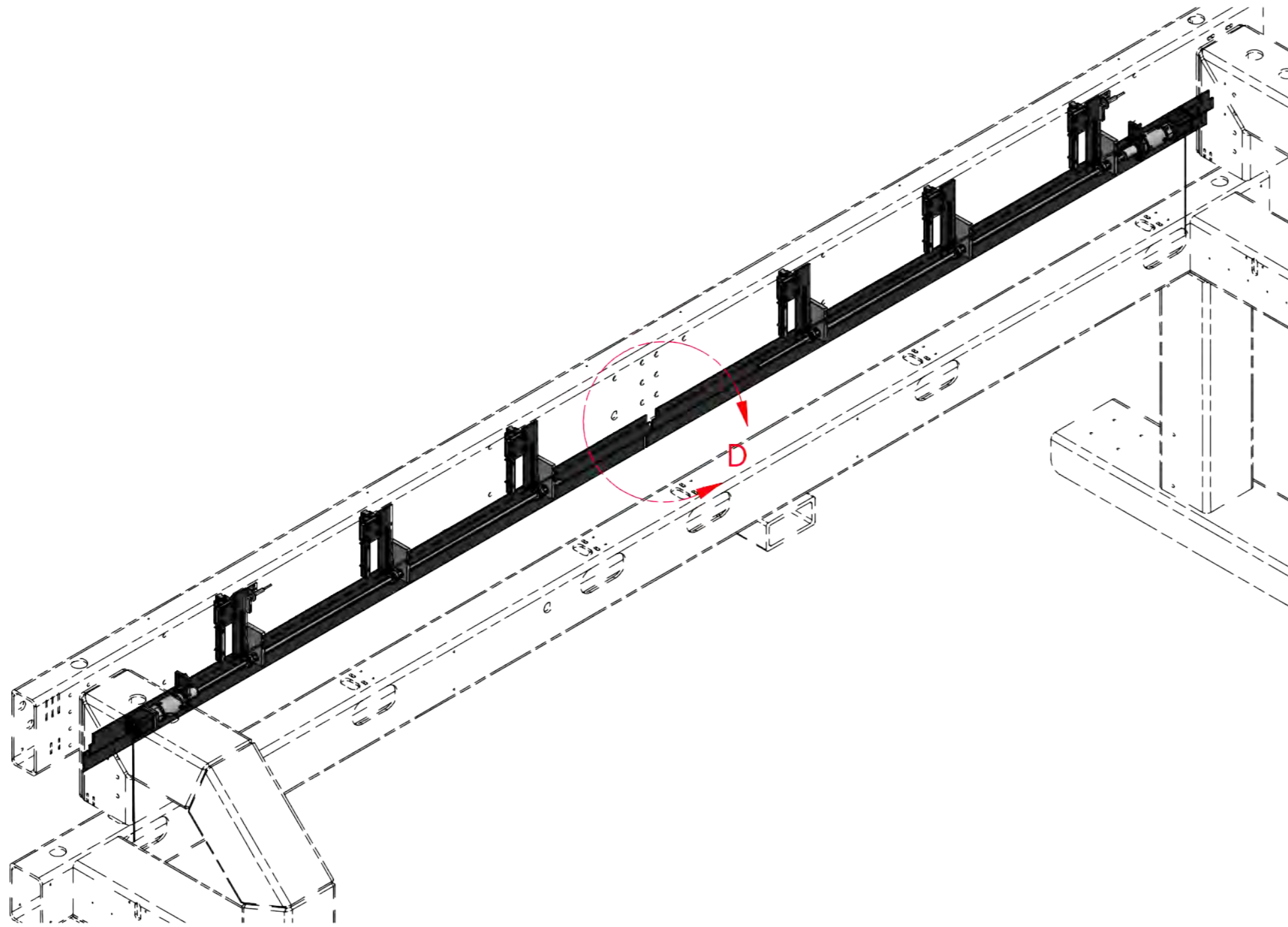


**DETAIL C
SCALE 1:2**


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-248-406533.dwg						
			CUSTOMER: MILLER WELDMASTER			
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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE	SHEET 2 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT #:	NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION #:	1	PART #
.000 +/- .005"	APPROVED	ZR	6/1/2018	SCALE:	1/30	A-IMP3-248-406533
ANGLES +/- 1/4°						

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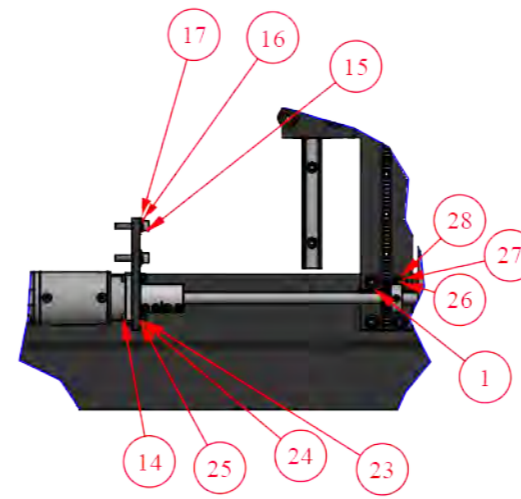


DETAIL D
SCALE 1:4

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-248-406533.dwg					
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			DESCRIPTION: UPPER FOLD ASSY		
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 3 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT#	NONE
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION#:	1
.000 +/- .005"	APPROVED	ZR	6/1/2018	SCALE:	1/11
ANGLES +/- 1/4°					PART # A-IMP3-248-406533

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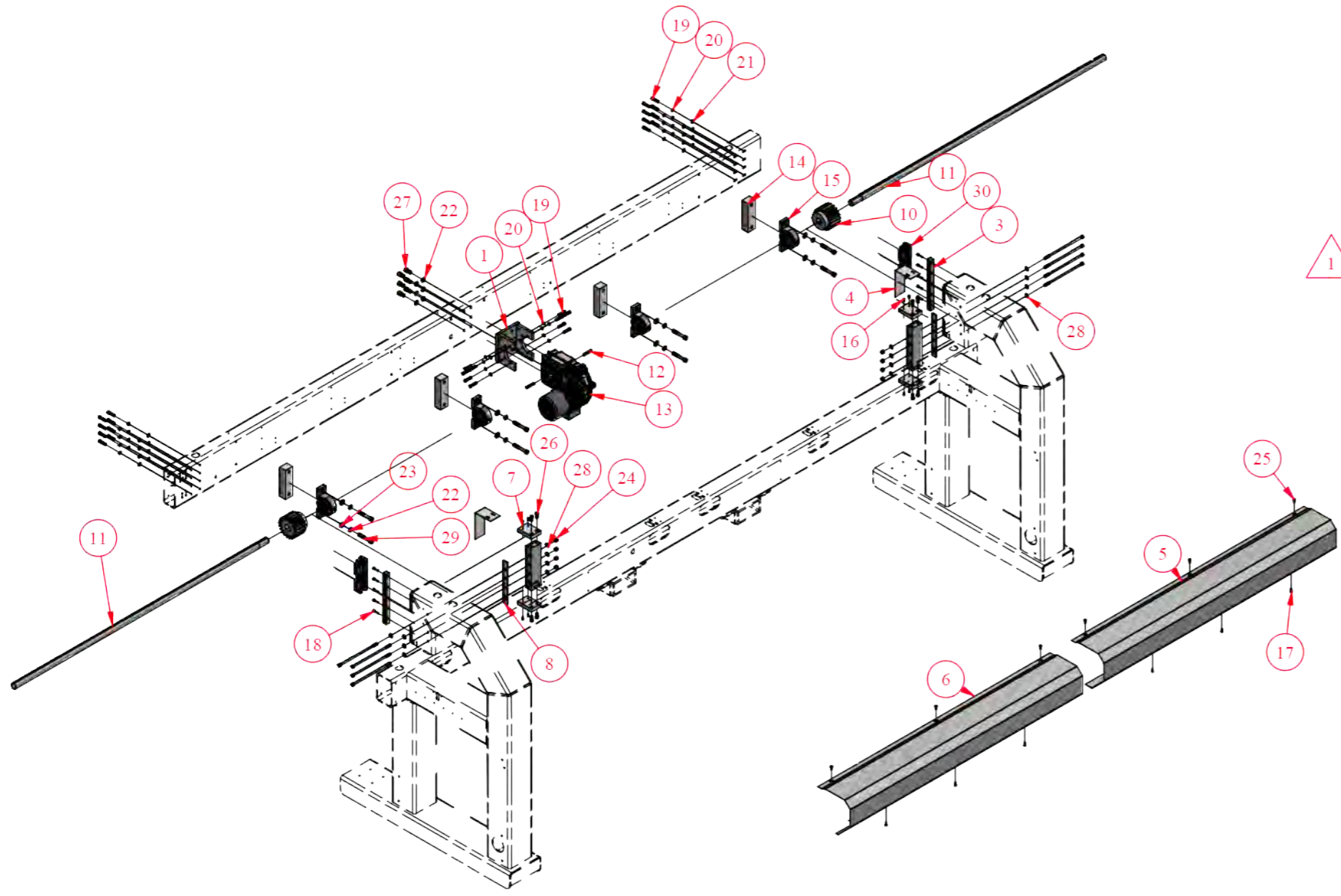


DETAIL E
SCALE 1 / 6



SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-248-406533.dwg					
			CUSTOMER: MILLER WELDMASTER		
			DESCRIPTION: UPPER FOLD ASSY		
<small>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</small>					
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 4 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT# NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION #: 1	PART #
ANGLES +/- 1/4°	APPROVED	ZR	6/1/2018	SCALE: 1:12	A-IMP3-248-406533

H G F E D C B A



ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	W-IMP3-240-406543	ABM GEARMOTOR BRACKET
2	8	P-PURC-240-406947	IMPULSE G3 GEAR RACK MOUNTING BOLT
3	2	P-IMP3-590-402903	HIWIN 25 RAIL X 11.125" LG
4	2	4I408014	GEAR RACK GUARD
5	1	P-IMP3-320-406960	COVER PANEL - NON-CONTROL BOX SIDE
6	1	P-IMP3-320-406959	COVER PANEL - CONTROL BOX SIDE
7	4	P-IMP3-240-406948	SPEAR GEAR TRAVEL STOP BAR
8	2	P-IMP3-240-406946	GEAR RACK STANDOFF BAR
9	2	P-IMP3-240-406897	MARTIN RACK, 5DP, 20 DEG PA, 9.425" LG
10	2	P-IMP3-240-406896	SPUR GEAR, 5DP, 20 DEG PA, 20T
11	2	P-IMP3-240-406572	KEYED ROTARY SHAFT 1045 CARBON STEEL 1.25" OD
12	2	P-IMP3-240-405178	METRIC STEEL MACHINE KEY STOCK, UNDERSIZED, 8MM x 8MM x 2" LG
13	1	P-IMP3-240-405165	ABM GEARMOTOR ZFL08/FGA283/4D63A-4 UL
14	4	P-IMP3-240-404277	MOUNTED BEARING SPACER BLOCK
15	4	P-IMP3-240-404009	MOUNTED BALL BEARING FOR 1.25" SHAFT
16	8	FAST	HSHCS - 10-32 UNF - .375 Lg
17	6	FAST	HSHCS - 10-32 UNF - .5 Lg
18	10	FAST	HSHCS - 1-4-20 UNC - 1 Lg
19	26	FAST	HSHCS - M8x1.25 - 35 Lg
20	26	FAST	SPLIT LOCK WASHER - 5-16
21	16	FAST	WASHER - 5-16
22	14	FAST	SPLIT LOCK WASHER - 1-2
23	8	FAST	WASHER - 1-2
24	8	FAST	HNLN - 3-8-16 UNC
25	6	FAST	HSHCS - 1-4-20 UNC - .5 Lg
26	8	FAST	HSHCS - 3-8-16 UNC - .75 Lg
27	6	FAST	HSHCS - 1-2-13 UNC - .875 Lg
28	16	FAST	WASHER - 3-8
29	8	F-IMP3-240-404280	HSHCS - 1-2-13 UNC - 3 Lg
30	4	381599	HIWIN 25MM FLANGE BEARING BLOCK (CASSETTE), Z0 PRELOAD

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-240-406532.dwg

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: 3.5 METER DRIVE SYSTEM ASSY

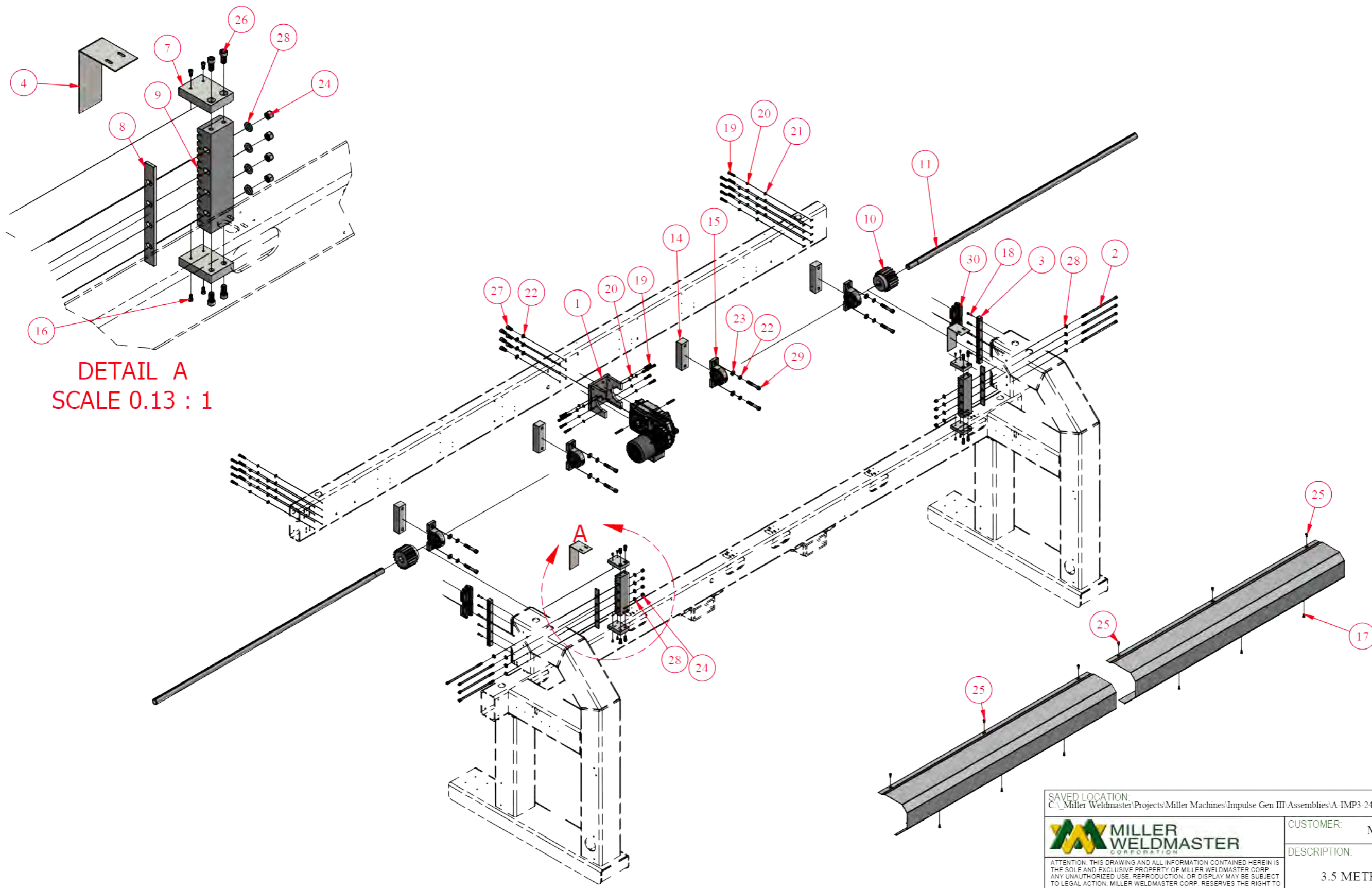
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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR	NONE	SHEET	1	OF	4
FRACTION +/- 1/16"	CHECKED	ZR	6/1/2018	PAINT #	NONE	MASS	N/A		
.00 +/- .010"	APPROVED	ZR	6/1/2018	REVISION #:	1	PART #			
.000 +/- .005"				SCALE	1/25	A-IMP3-240-406532			
ANGLES +/- 1/4°									

REV	DATE	APPROVED	DESCRIPTION
1	1/2/2020	JJS	REPLACED P-IMP3-320-407213 WITH 4I408014, ITEM # 4. CHANGED MOUNTING LOCATIONS OF ITEMS 14 AND 15.

REVISION HISTORY

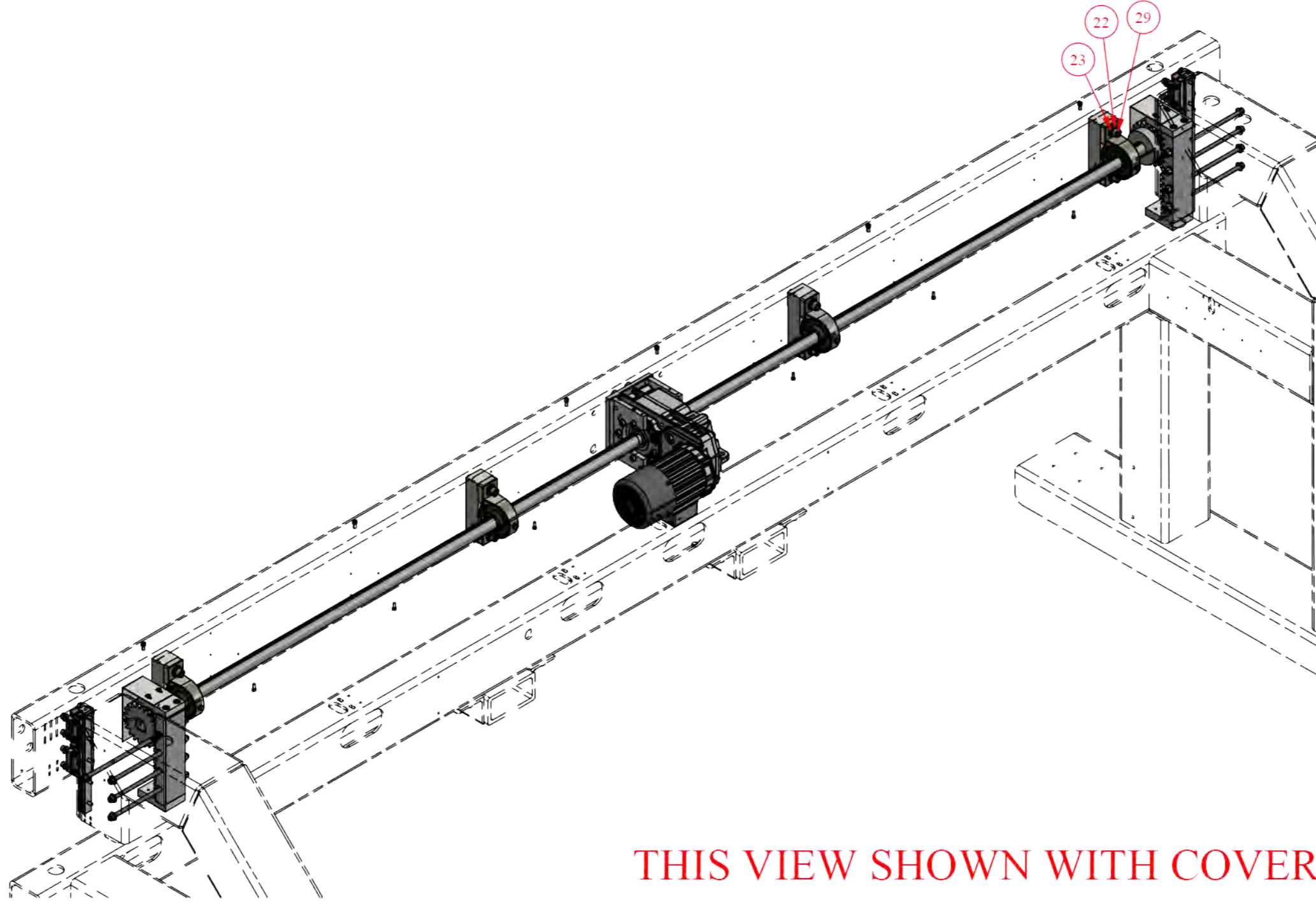
H G F E D C B A




DETAIL A
SCALE 0.13 : 1

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-240-406532.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT# NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION #: 1	PART #
.000 +/- .005"	APPROVED	ZR	6/1/2018	SCALE: 1/20	A-IMP3-240-406532
ANGLES +/- 1/4°					

H G F E D C B A



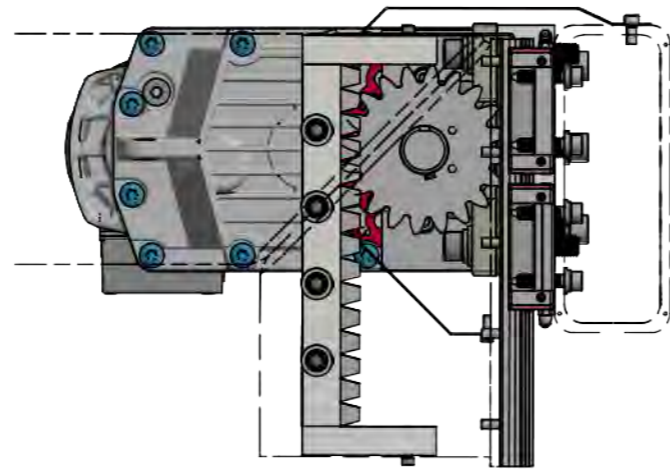
THIS VIEW SHOWN WITH COVERS REMOVED


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-240-406532.dwg					
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			DESCRIPTION: 3.5 METER DRIVE SYSTEM ASSY		
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: NONE	SHEET 3 OF 4	
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT# NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION #: 1	PART #
ANGLES +/- 1/4°	APPROVED	ZR	6/1/2018	SCALE: 1/11	A-IMP3-240-406532

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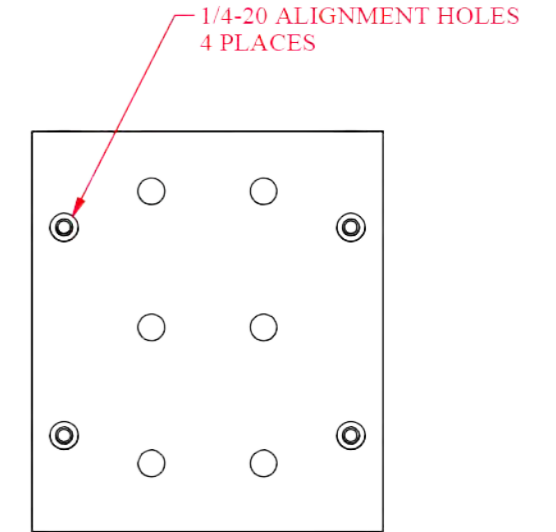
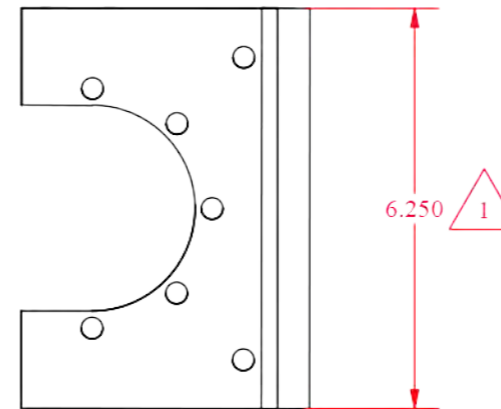
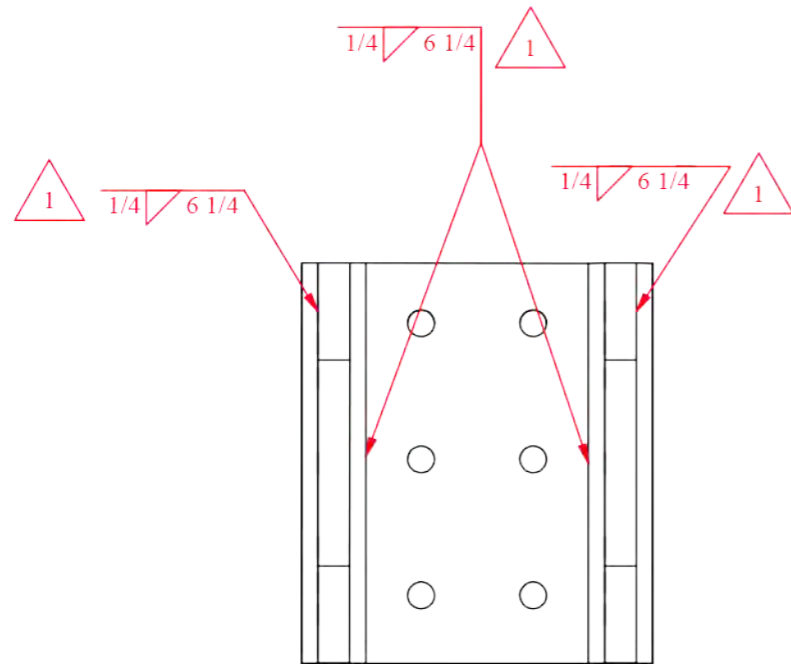
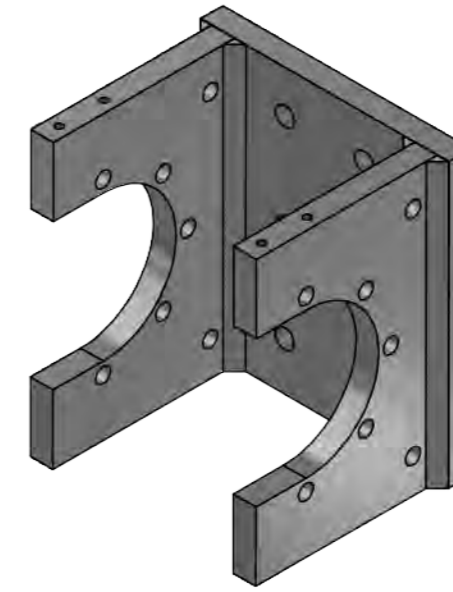
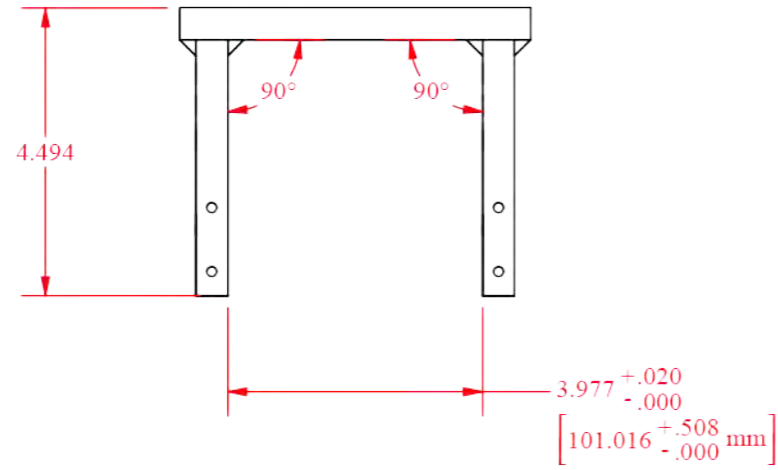
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SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-240-406532.dwg					
 MILLER WELDMASTER CORPORATION			CUSTOMER: MILLER WELDMASTER		
ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011			DESCRIPTION: 3.5 METER DRIVE SYSTEM ASSY		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 4 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	5/30/2018	PAINT # NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/1/2018	REVISION #: 1	PART #
.000 +/- .005"	APPROVED	ZR	6/1/2018	SCALE: 1:5	A-IMP3-240-406532
ANGLES +/- 1/4°					

H G F E D C B A

ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	P-IMP3-240-406541	ABM GEARMOTOR BRACKET BACK PLATE
2	2	P-IMP3-240-406542	ABM GEARMOTOR BRACKET SIDE PLATE



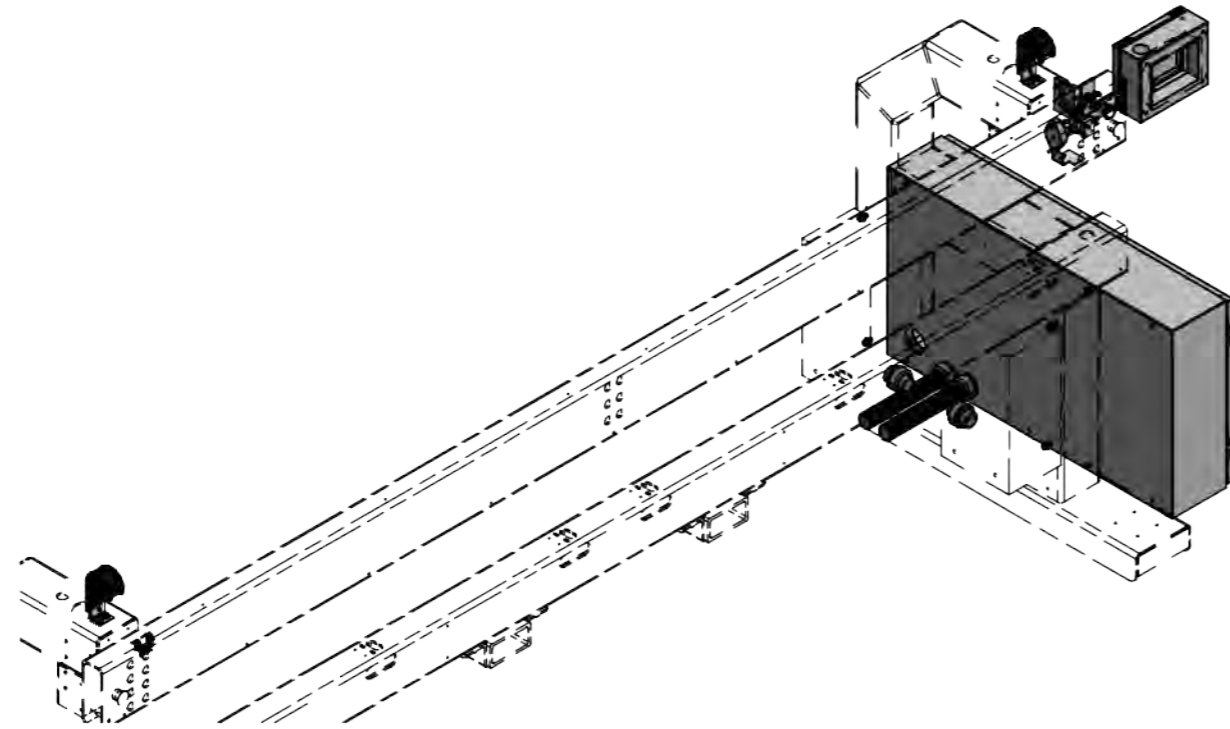
NOTE:

- 1. THREADED HOLES PROVIDED FOR ALIGNMENT.
- 2. WELDS SHOWN ON DRAWING.

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram\W-IMP3-240-406543.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	GREY WHITE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	6/19/2018	PAINT #:	RAL 9002
.00 +/- .010"	CHECKED	ZR	6/20/2018	REVISION #:	1
.000 +/- .005"	APPROVED	ZR	6/20/2018	SCALE:	1 / 3
ANGLES +/- 1/4°					PART #
					W-IMP3-240-406543

REV	DATE	APPROVED	DESCRIPTION
1	2/11/2019	ZR	UPDATED WELD AND GEOMETRY DIMENSIONS TO SHORTEN BRACKET FROM 7 3/4" TO 6 1/4".
REVISION HISTORY			

H G F E D C B A

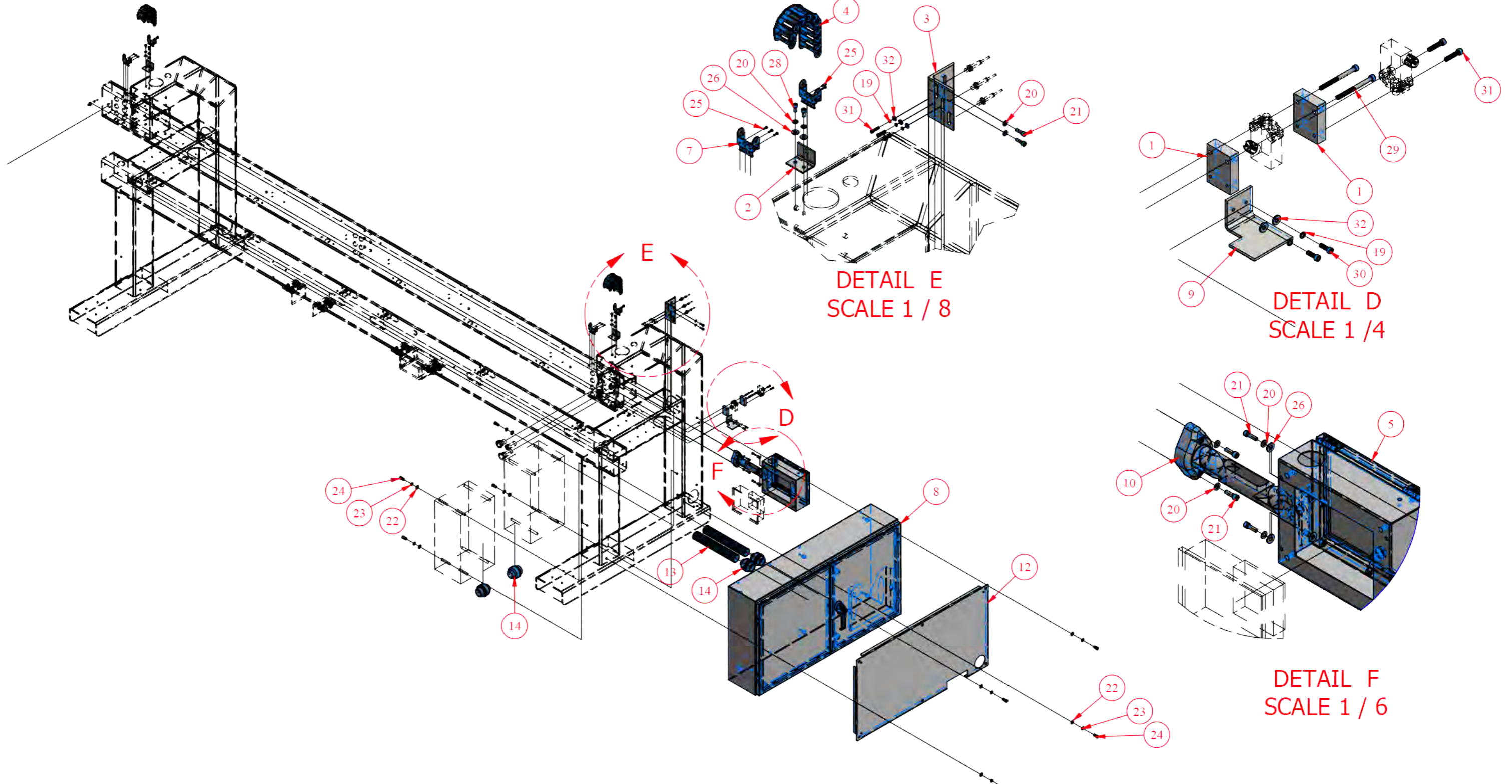


ITEM	ITEM QTY	PART NUMBER	TITLE
1	2	P-IMP3-240-406969	SENSOR MOUNT
2	2	P-IMP3-165-406950	CABLE CARRIER MOUNT
3	1	E-IMP3-240-404244	PLATE ADAPTER FOR PROX SENSORS
4	2	E-IMP3-360-404275	CABLE CARRIER 1.9" WIDE .8" HEIGHT
5	1	E-IMP3-245-404541	HMI POSITIONING ARM ENCLOSURE MODIFIED 10" H x 8" W x 4" D SCE-1008ELJ
7	4	E-IMP3-360-404276	CABLE CARRIER MOUNTING BRACKET 1.9" WIDE .8" HEIGHT
8	1	E-IMP3-245-404437	24"H x 42"LG x 8"D TWO DOOR WITH HANDLE ENCLOSURE
9	1	E-IMP3-240-406967	BOTTOM SENSOR TRIP PLATE
10	1	E-IMP3-380-404234	POSITIONING ARM HMI
12	1	E-IMP3-245-404636	MODIFIED MAIN ENCLOSURE SUBPANEL
13	2	E-IMP3-245-404648	1 1/2" BLACK CONDUIT
14	4	E-IMP3-245-404649	1 1/2" BLACK CONDUIT FITTING
19	5	FAST	SPLIT LOCK WASHER - 8
20	10	FAST	SPLIT LOCK WASHER - 1-4
21	6	FAST	HSHCS - 1-4-20 UNC - .75 Lg
22	8	FAST	WASHER - 3-8
23	8	FAST	SPLIT LOCK WASHER - 3-8
24	8	FAST	HSHCS - 3-8-16 UNC - .75 Lg
25	10	FAST	HSHCS - 4-40 UNC - .3125 Lg
26	8	FAST	WASHER FOR 1/4 SCREW SIZE
27	2	FAST	HN - 1-4-20 UNC
28	4	FAST	HSHCS - 1-4-20 UNC - .5 Lg
29	2	FAST	HSHCS - 8-32 UNC - 2 Lg
30	2	FAST	HSHCS - 8-32 UNC - .5 Lg
31	5	FAST	HSHCS - 8-32 UNC - .75 Lg
32	5	FAST	WASHER - 8

REV	DATE	APPROVED	DESCRIPTION
2	2/11/2019	ZR	REMOVED ELECTRICAL COMPONENTS FROM BOM
1	1/10/2018	MTH	ADDED P-IMP3-165-406950; ADDED E-IMP3-240-406967; ADDED P-IMP3-240-406969

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-165-404719.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE
FRACTION +/- 1/16"		DRAWN	zralston	5/31/2018	PAINT # NONE
.00 +/- .010"		CHECKED	ZR	6/5/2018	REVISION #: 2
.000 +/- .005"		APPROVED	ZR	6/5/2018	SCALE: 1:20
ANGLES +/- 1/4°				SHEET 1 OF 3 MASS N/A PART # A-IMP3-165-404719	

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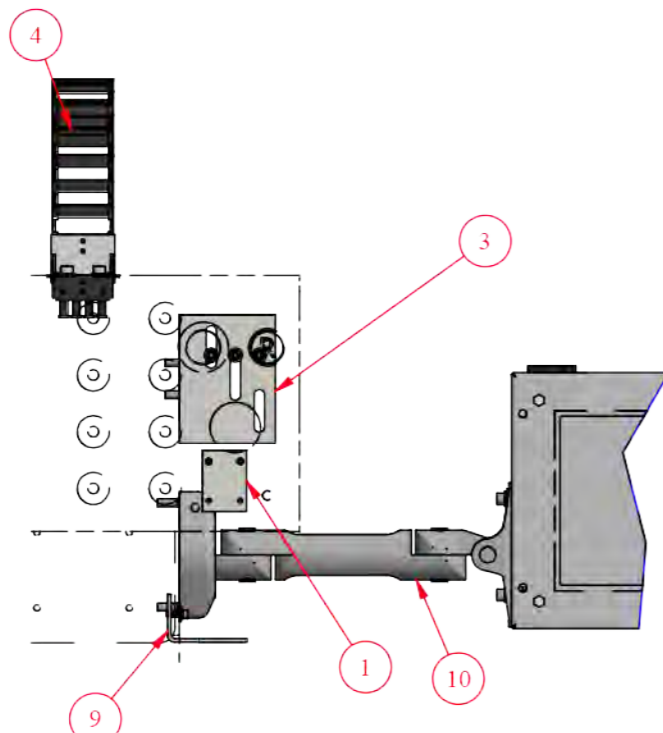
REV	DATE	APPROVED	DESCRIPTION
2	2/11/2019	ZR	REMOVED ELECTRICAL COMPONENTS FROM BOM
1	1/10/2018	MTH	ADDED P-IMP3-165-406950; ADDED E-IMP3-240-406967; ADDED P-IMP3-240-406969

REVISION HISTORY

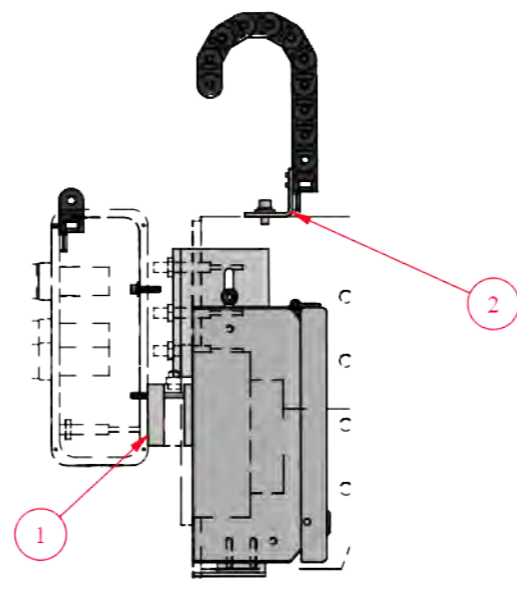
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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR:	NONE	SHEET 2 OF 3	
FRACTION +/- 1/16"	CHECKED	ZR	6/5/2018	PAINT #:	NONE	MASS N/A	
.00 +/- .010"	APPROVED	ZR	6/5/2018	REVISION #:	2	PART #	
.000 +/- .005"				SCALE:	1:20	A-IMP3-165-404719	
ANGLES +/- 1/4°							

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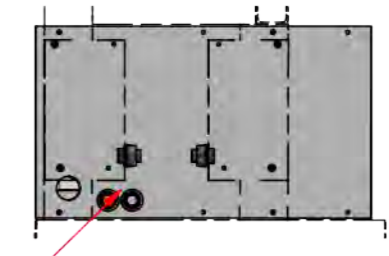
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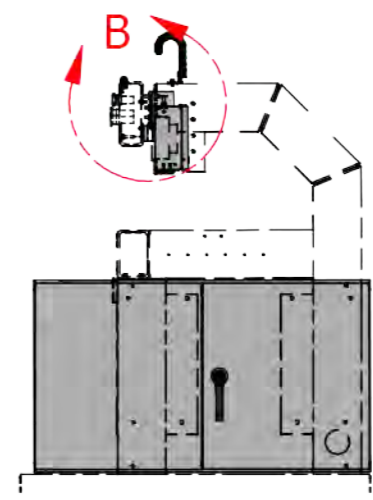
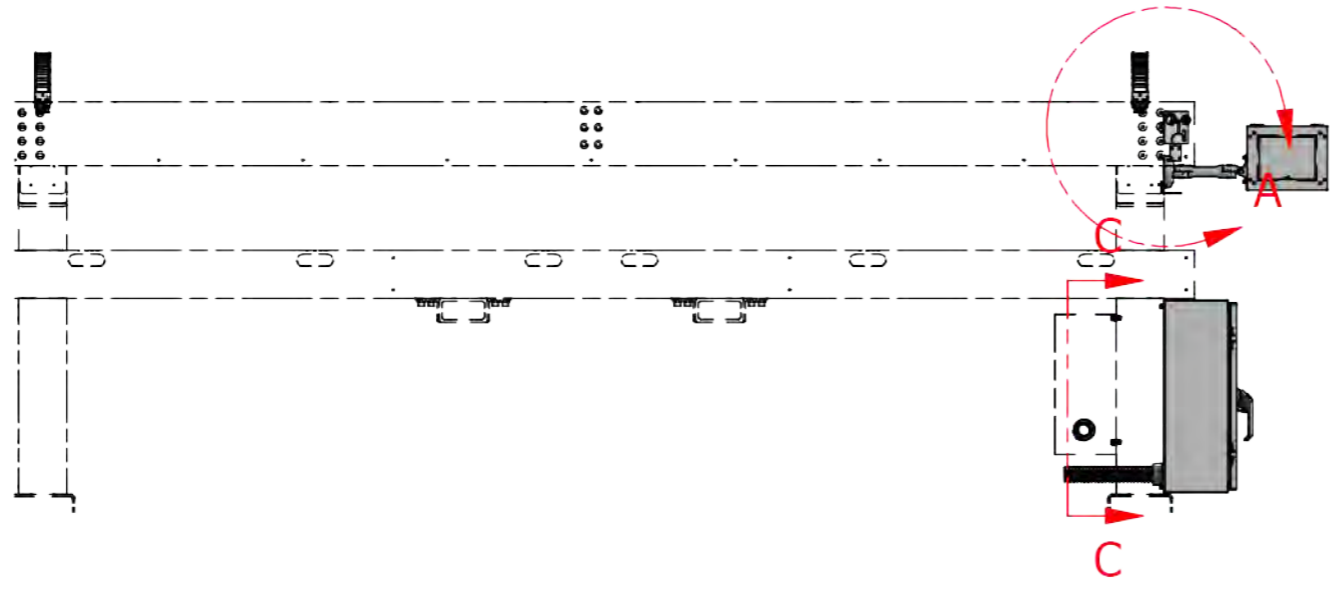
DETAIL A
SCALE 1:6



DETAIL B
SCALE 1:6



SECTION C-C
SCALE 1:24



REV	DATE	APPROVED	DESCRIPTION
2	2/11/2019	ZR	REMOVED ELECTRICAL COMPONENTS FROM BOM
1	1/10/2018	MTH	ADDED P-IMP3-165-406950; ADDED E-IMP3-240-406967; ADDED P-IMP3-240-406969

SAVED LOCATION:
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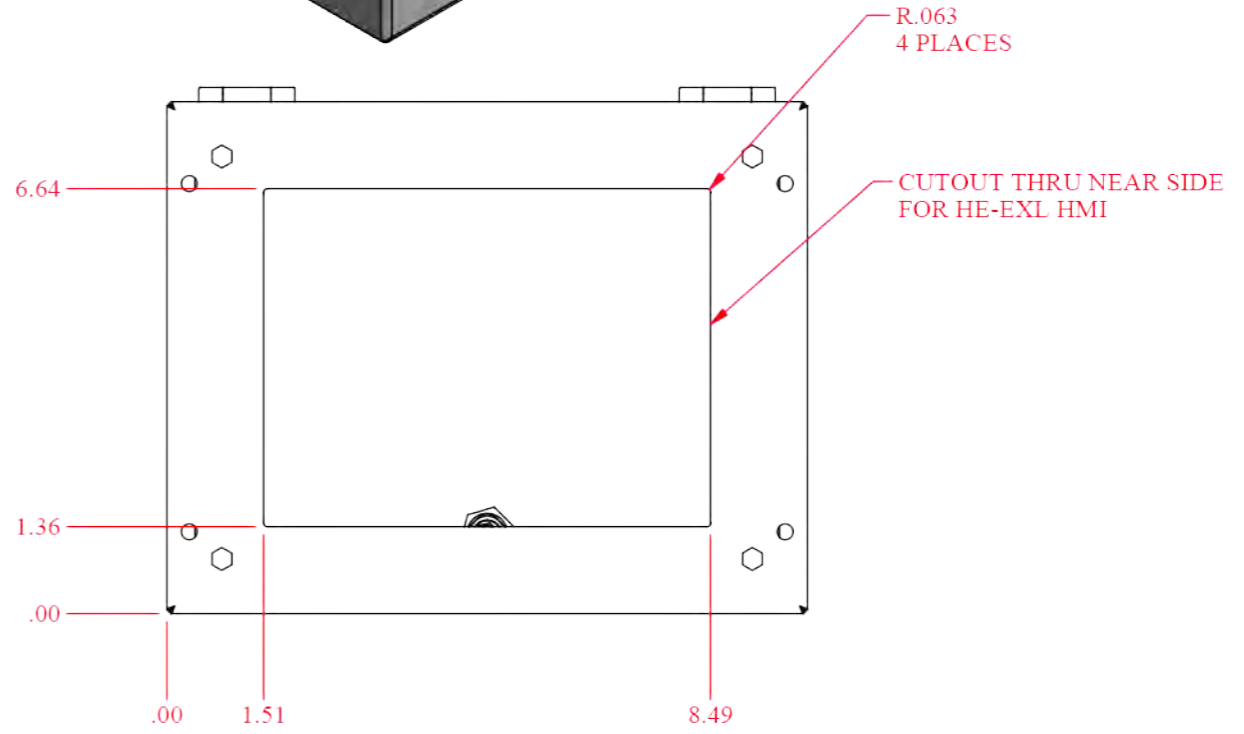
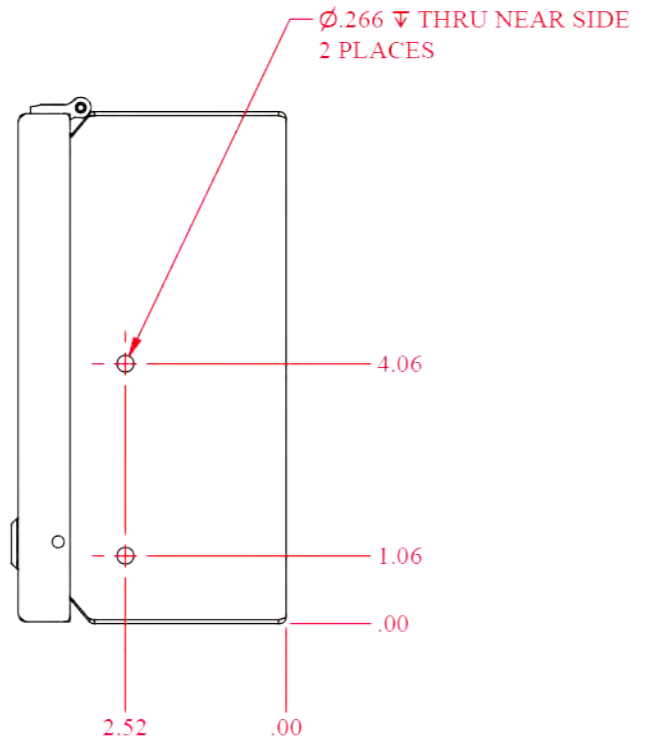
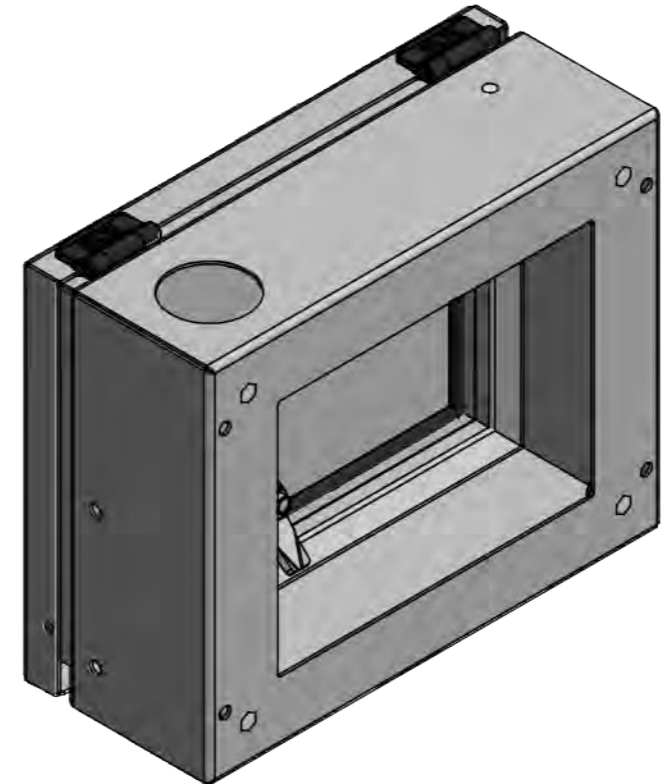
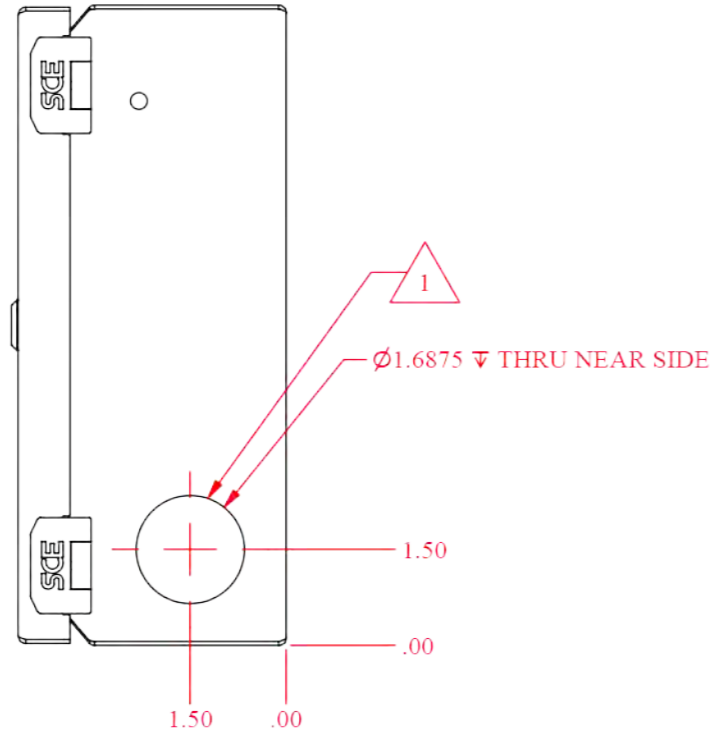
CUSTOMER: MILLER WELDMASTER

DESCRIPTION: CONTROLS ASSY

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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR:	NONE	SHEET 3 OF 3
FRACTION +/- 1/16"	CHECKED	ZR	5/31/2018	PAINT #:	NONE	MASS N/A
.00 +/- .010"	APPROVED	ZR	6/5/2018	REVISION #:	2	PART #
.000 +/- .005"				SCALE:	1:24	A-IMP3-165-404719
ANGLES +/- 1/4°						

ITEM	ITEM QTY	STOCK NUMBER	DESCRIPTION
1	1	REXMOD1154	HMI POSITIONING ARM ENCLOSURE MODIFIED 10" H x 8" W x 4" D



REV	DATE	APPR	DESCRIPTION
1	9/7/2018	ZR	INCREASED CONDUIT FITTING THRU HOLE DIAMETER

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Parts\E-IMP3-245-404541.dwg

MILLER WELDMASTER CORPORATION

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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE	SHEET 1 OF 1
FRACTION +/- 1/16"		DRAWN	zralston	5/23/2018	PAINT #	MASS N/A
.00 +/- .010"		CHECKED	ZR	5/25/2018	REVISION #:	1
.000 +/- .005"		APPROVED	ZR	5/25/2018	SCALE:	1/3
ANGLES +/- 1/4°						PART #
						E-IMP3-245-404541

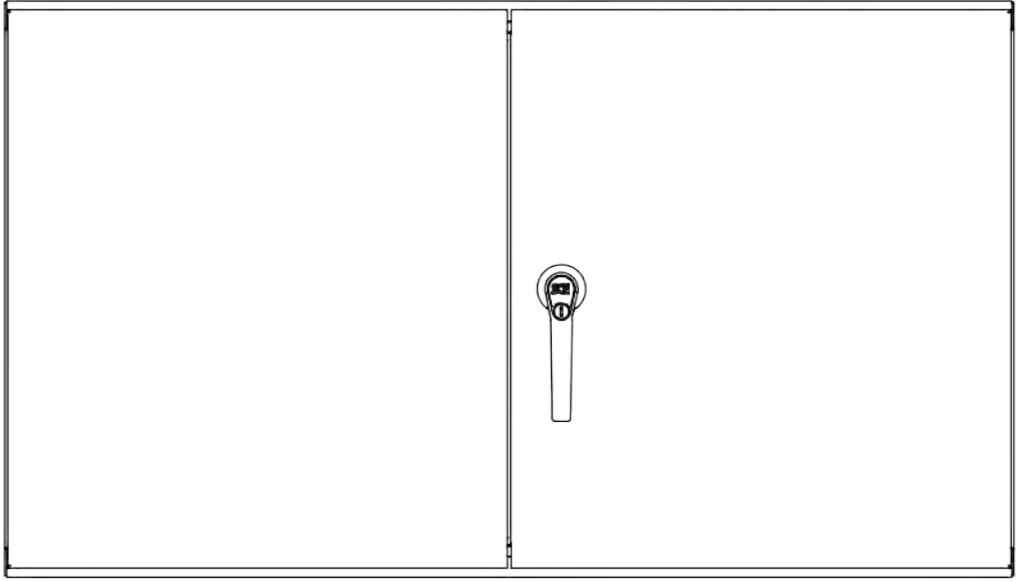
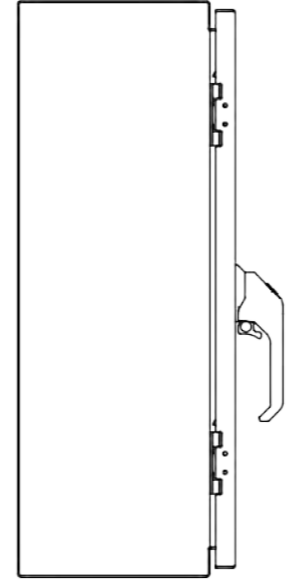
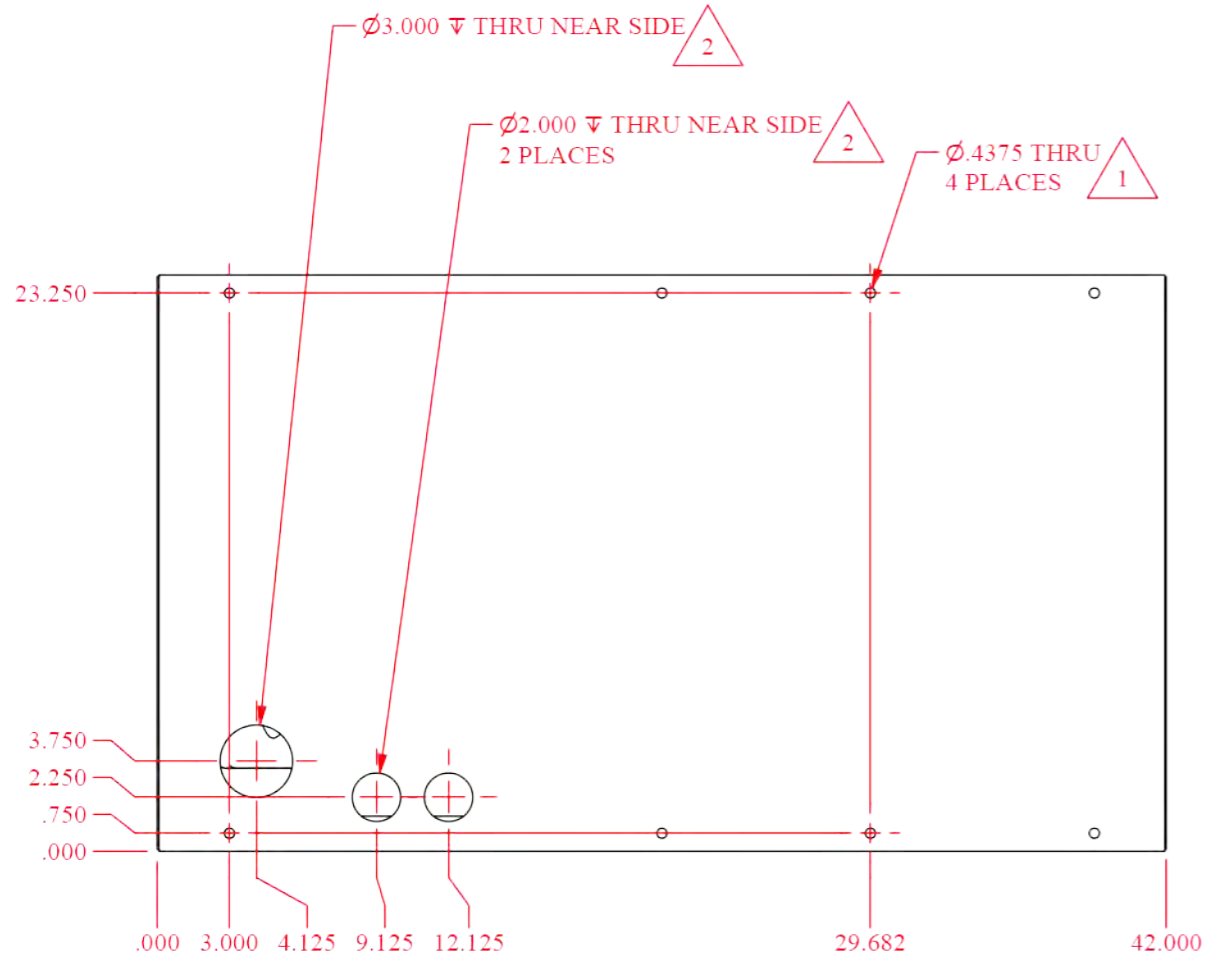
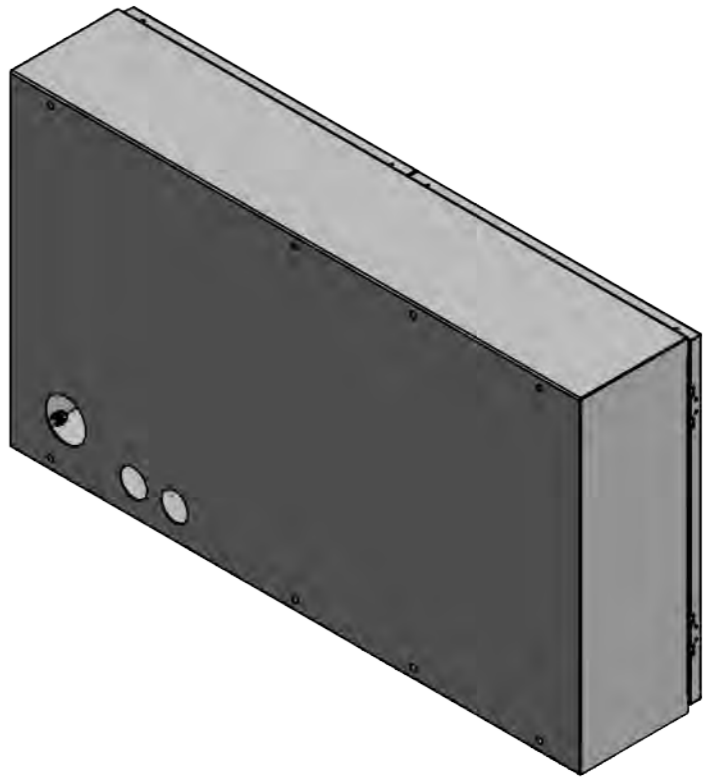
CUSTOMER: MILLER WELDMASTER

DESCRIPTION:
HMI POSITIONING ARM ENCLOSURE
MODIFIED 10" H x 8" W x 4" D

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ITEM	ITEM QTY	STOCK NUMBER	DESCRIPTION
1	1	REXMOD1155	MODIFIED FOR IMPULSE G3 24"H x 42"LG x 8"D TWO DOOR WITH HANDLE ENCLOSURE SCE-244208WFLP

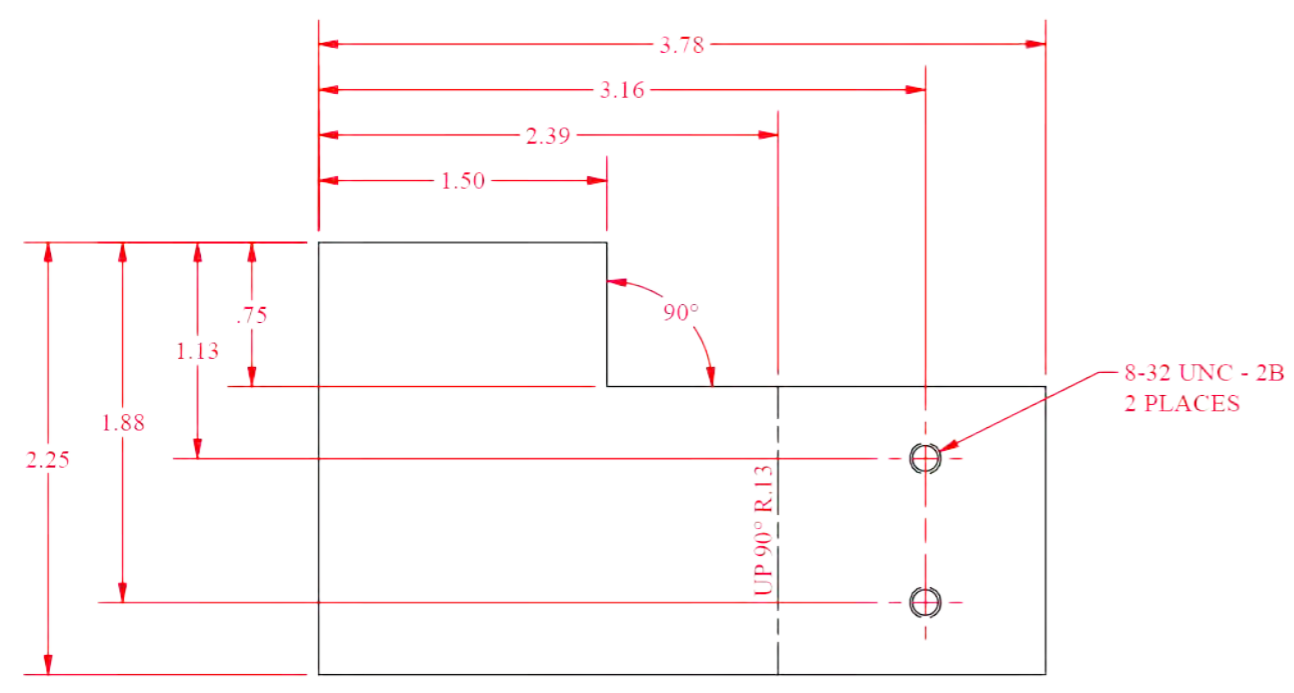


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Purchased\E-IMP3-245-404437.dwg				CUSTOMER: MILLER WELDMASTER	
				DESCRIPTION: 24"H x 42"LG x 8"D TWO DOOR WITH HANDLE ENCLOSURE	
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BY: zralston DATE: 5/17/2018	COLOR: GREY WHITE PAINT #: RAL 9002	SHEET 1 OF 1 MASS N/A	REVISION #: 2 SCALE: 1/8	PART # E-IMP3-245-404437	

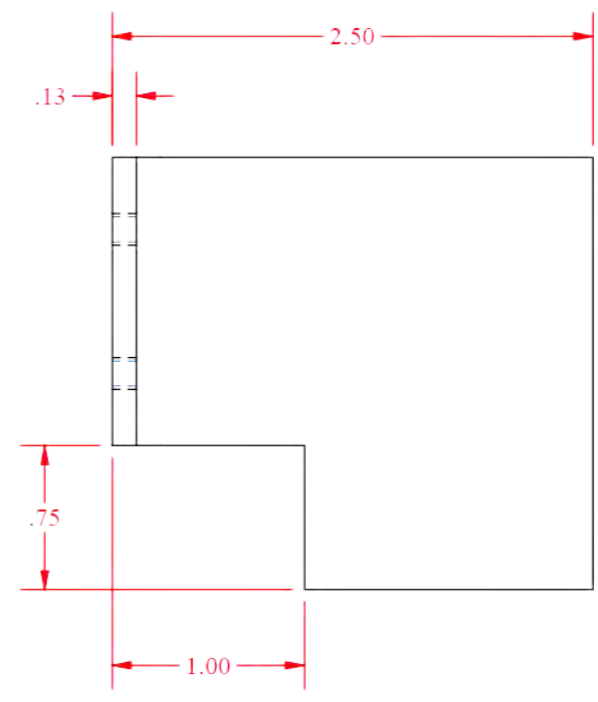
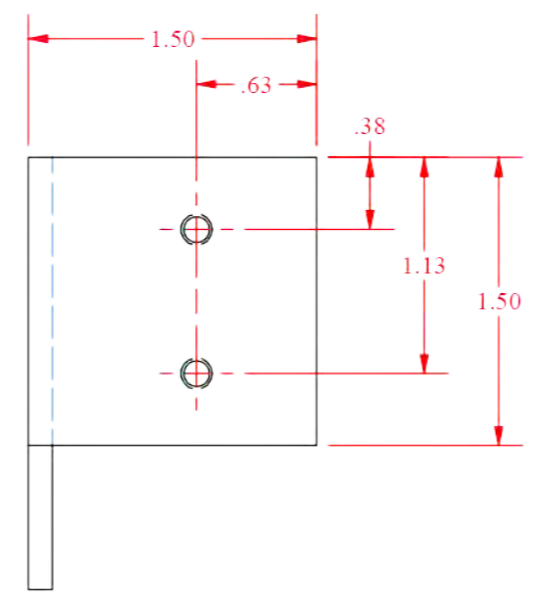
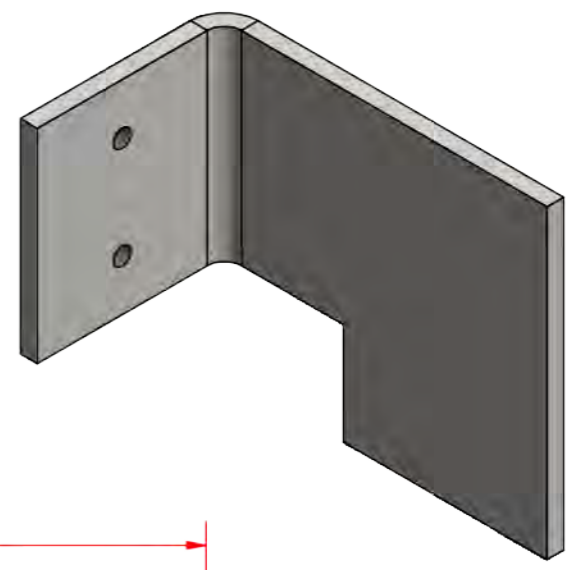
REV	DATE	APPROVED	DESCRIPTION
2	1/18/2019	ZR	MIRRORED CUTOUT AND HOLE LOCATIONS FOR MOUNTING CONTROL BOX ON OUTSIDE OF MACHINE LEGS
1	7/10/2018	ZR	REVISED TO SHOW HOLE LOCATIONS OF (4) MOUNTING POINTS

REVISION HISTORY

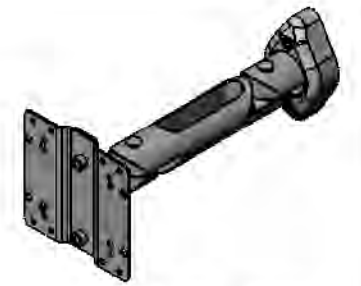
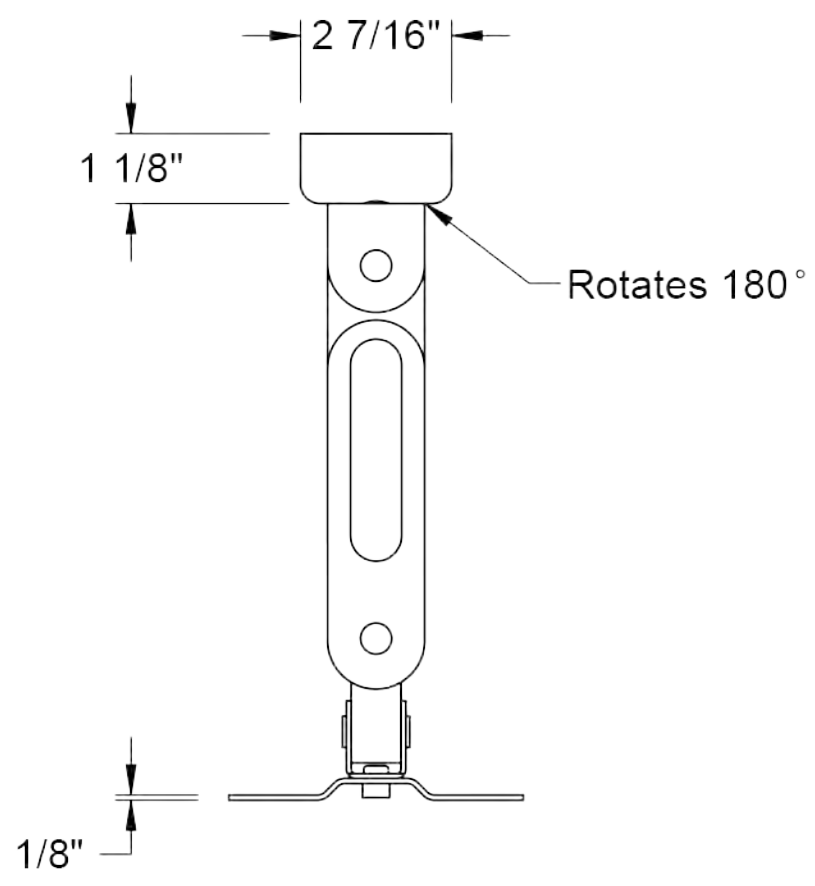
H G F E D C B A



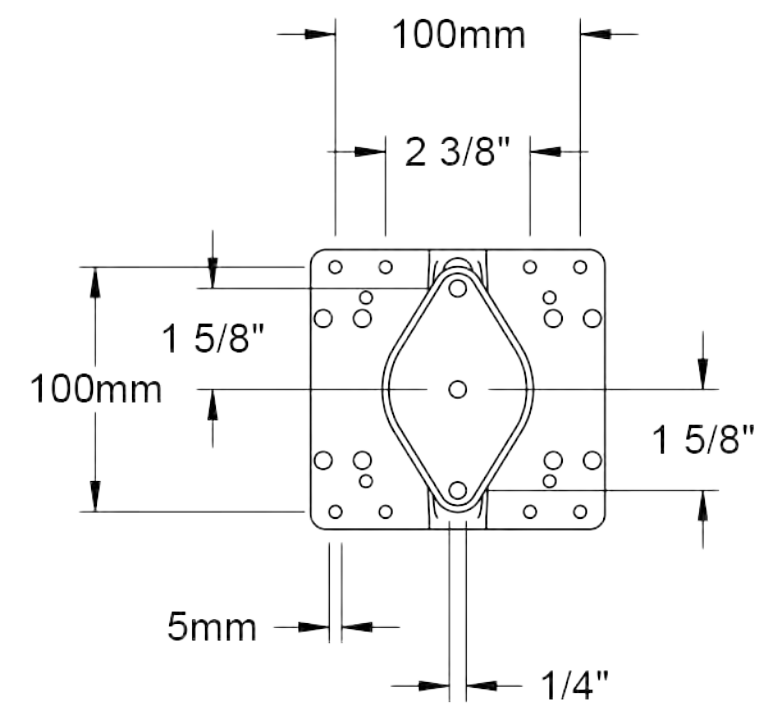
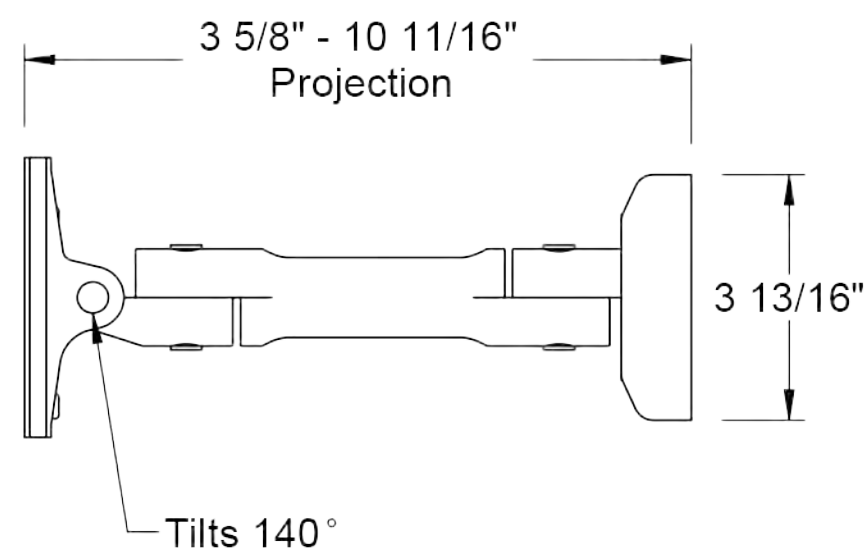
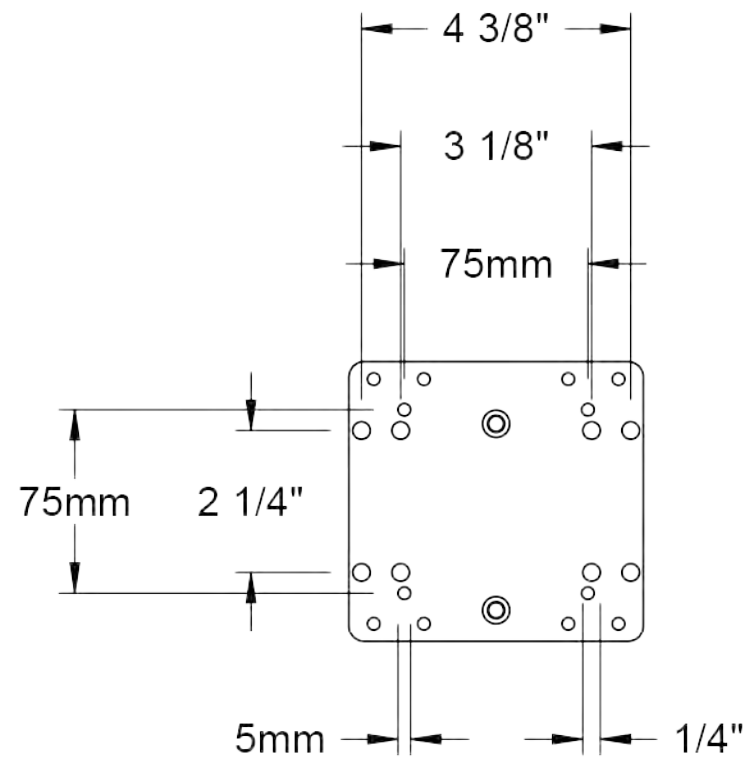
FLAT PATTERN
SCALE 1 : 1



SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Parts\E-IMP3-240-406967.dwg					
			CUSTOMER: MILLER WELDMASTER		
			DESCRIPTION: BOTTOM SENSOR TRIP PLATE		
<small>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</small>					
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: GREY WHITE	SHEET 1 OF 1	
FRACTION +/- 1/16"	DRAWN	zralston	1/7/2019	PAINT #: RAL 9002	MASS 0.24 lbmass
.00 +/- .010"	CHECKED			REVISION #: 0	PART #
.000 +/- .005"	APPROVED			SCALE: 1 : 1	E-IMP3-240-406967
ANGLES +/- 1/4°					

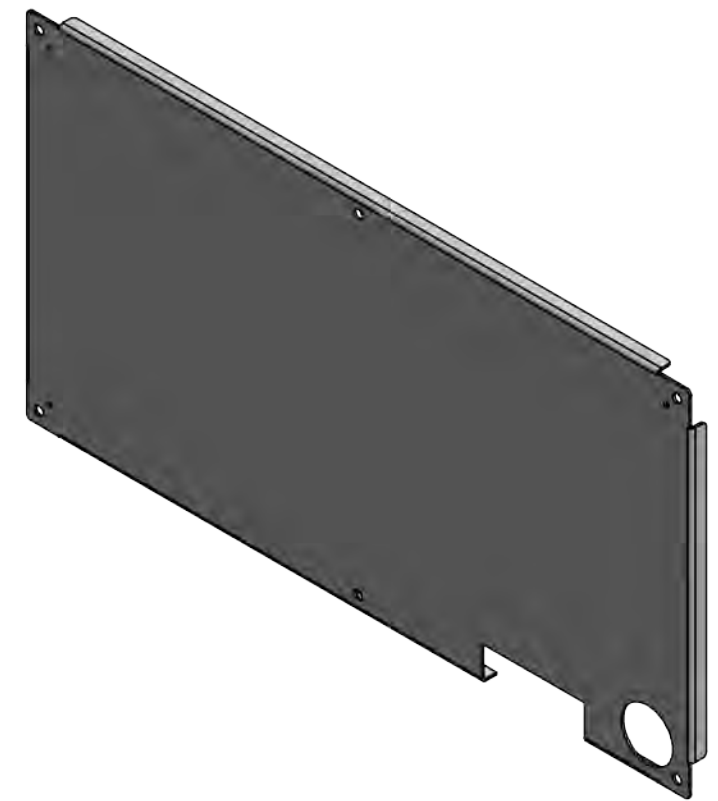
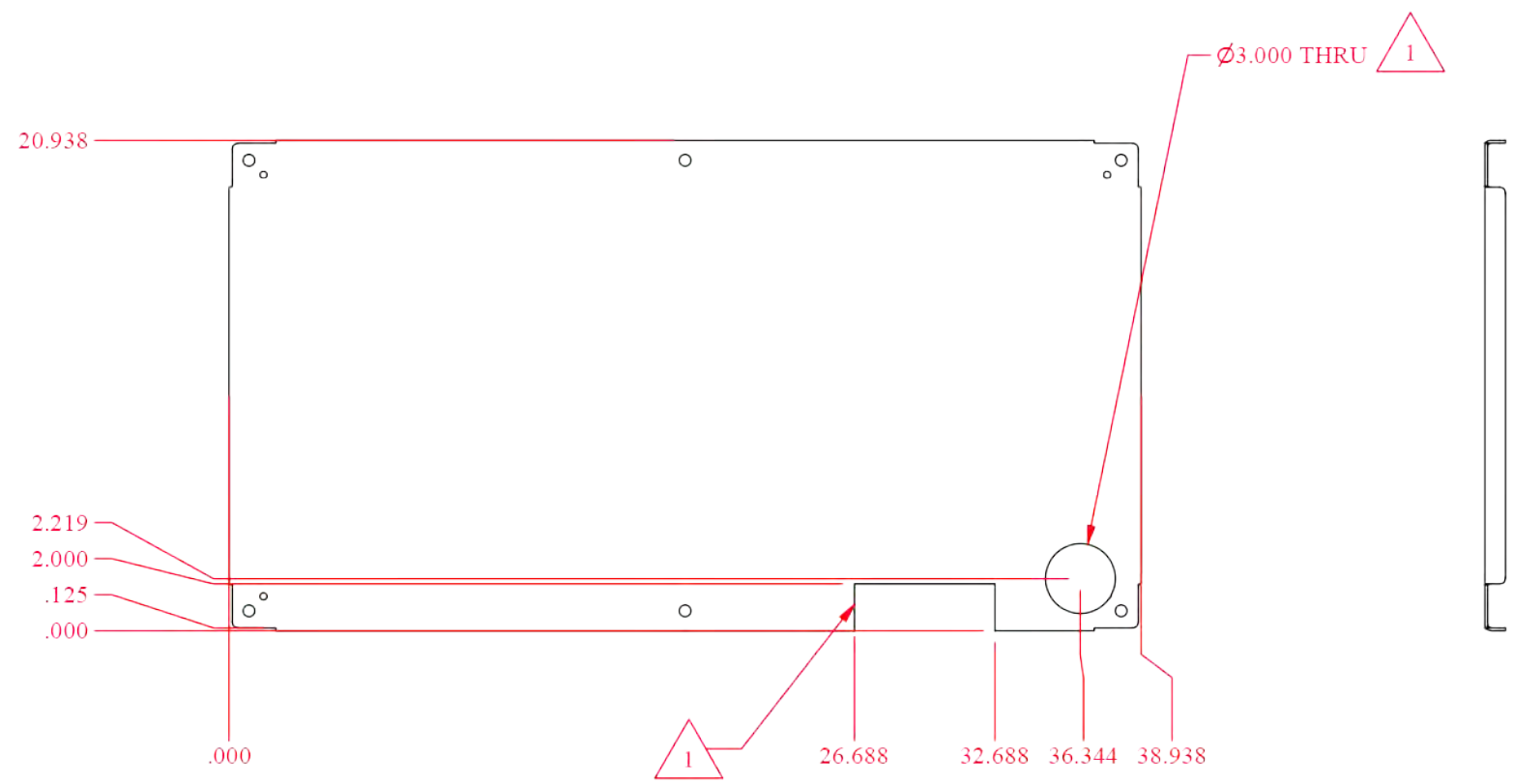


Fits 10" - 30"
Monitor Size



McMASTER-CARR <small>CAD</small> http://www.mcmaster.com © 2016 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	PART NUMBER 4628T13
	Flat-Panel Monitor Positioning Arm

ITEM	ITEM QTY	STOCK NUMBER	DESCRIPTION
1	1	REXMOD1158	MODIFIED MAIN ENCLOSURE SUBPANEL FOR SCE-244208WFLP



SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Parts\E-IMP3-245-404636.dwg

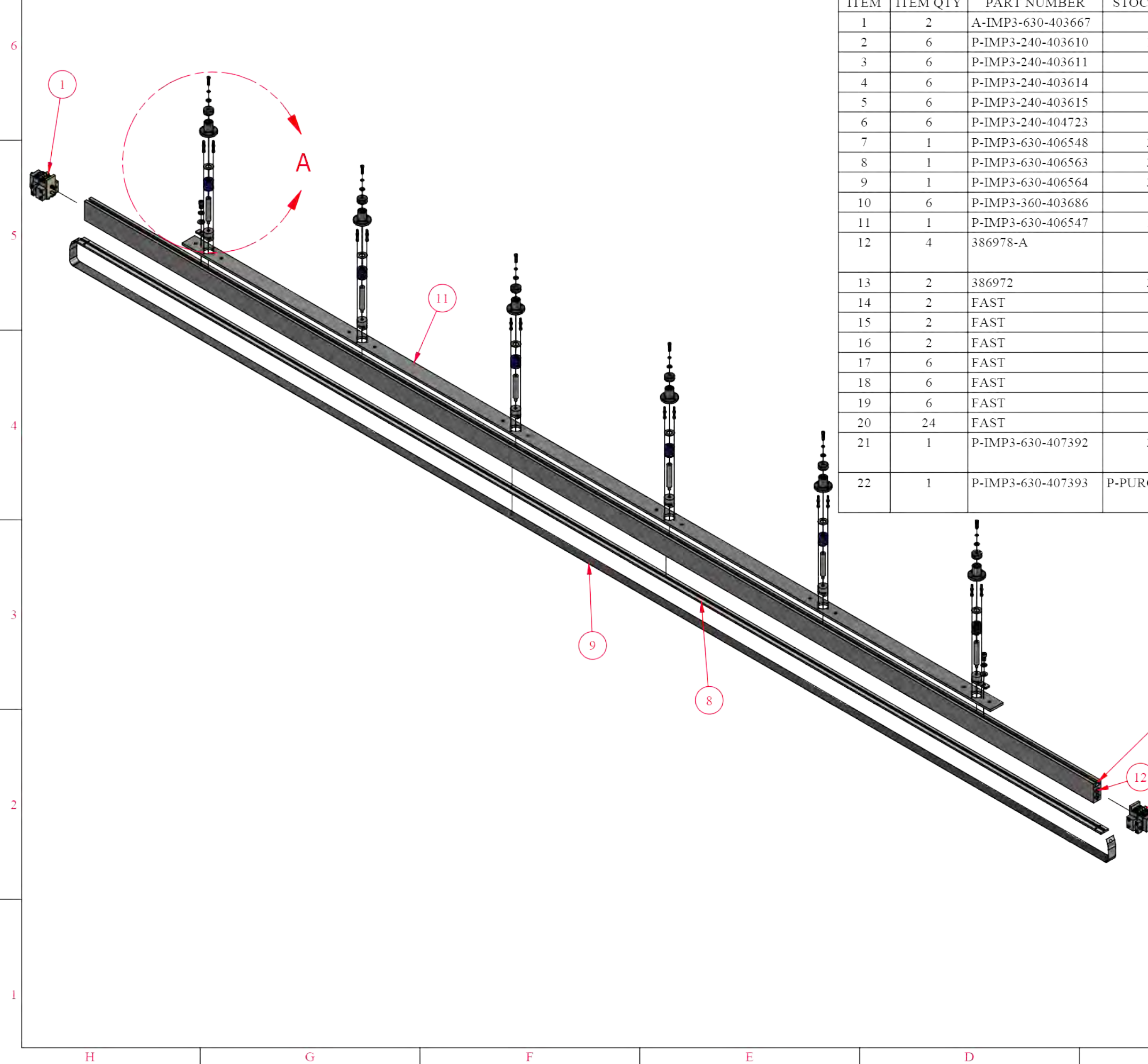
CUSTOMER: MILLER WELDMASTER
DESCRIPTION: MODIFIED MAIN ENCLOSURE SUBPANEL

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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	5/17/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/24/2018	REVISION #: 1	PART #
.000 +/- .005"	APPROVED	ZR	5/24/2018	SCALE: 1/8	E-IMP3-245-404636
ANGLES +/- 1/4°					

REV	DATE	APPROVED	DESCRIPTION
1	1/18/2019	ZR	MIRRORED CUTOUT AND HOLE LOCATIONS FOR MOUNTING CONTROL BOX ON OUTSIDE OF MACHINE LEGS
REVISION HISTORY			

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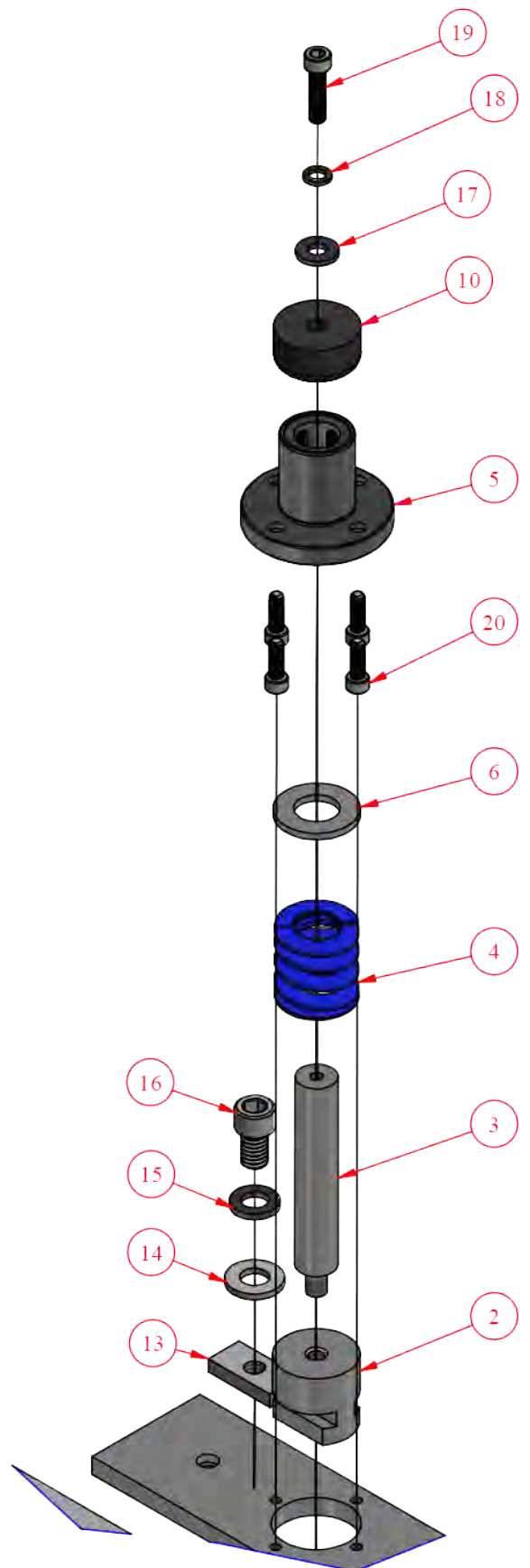


ITEM	ITEM QTY	PART NUMBER	STOCK NUMBER	TITLE
1	2	A-IMP3-630-403667		WELD BAND TENSIONER, 20MM / 25MM
2	6	P-IMP3-240-403610	112025	WELD BAR DIE SPRING SHAFT ADAPTER
3	6	P-IMP3-240-403611		WELD BAR FLOATING LINEAR SHAFT 1/2" TG&P
4	6	P-IMP3-240-403614		HIGH STRENGTH BLUE CHROME-SILICON STEEL DIE SPRING
5	6	P-IMP3-240-403615		FLANGE-MOUNTED LINEAR BALL BEARING FOR 1/2" SHAFT
6	6	P-IMP3-240-404723		OVERSIZED WASHER .531"ID X 1"OD
7	1	P-IMP3-630-406548	384717	IMPULSE GEN III 3.5M, 25MM LOWER WELD BAR, 138.000"
8	1	P-IMP3-630-406563	384724	IMPULSE EXTREME SILICONE STRIP-25mm X 138" LG.
9	1	P-IMP3-630-406564	383560	IMPULSE EXTREME HEAT WIRE-25mm X 143" LG.
10	6	P-IMP3-360-403686		RUBBER BUMPER 1" OD .5" HEIGHT WITH THROUGH HOLE
11	1	P-IMP3-630-406547	160228	LINEAR BALL BEARING MOUNT
12	4	386978-A		IMPULSE EXTREME WELD BAR PLUG WITH CENTER HOLE DRILLED/TAPPED, REVISED
13	2	386972	310101	IMPULSE EXTREME LOWER WELD BAR ANCHOR
14	2	FAST		WASHER - 5-16
15	2	FAST		SPLIT LOCK WASHER - 5-16
16	2	FAST		HSHCS - 5-16-18 UNC - .5 Lg
17	6	FAST		WASHER - 10
18	6	FAST		SPLIT LOCK WASHER - 10
19	6	FAST		HSHCS - 10-32 UNF - .75 Lg
20	24	FAST		HSHCS - 8-32 UNC - .5 Lg
21	1	P-IMP3-630-407392	384542	IMPULSE EXTREME TEFLON TAPE, 2-7/8" WIDE WITH 1/2" ADHESIVE ON EACH EDGE, 143" LG. (NOT SHOWN)
22	1	P-IMP3-630-407393	P-PURC-570-407360	IMPULSE EXTREME TEFLON TAPE, 1-7/8" WIDE WITH 1/2" ADHESIVE ON EACH EDGE, 143" LG. (NOT SHOWN)


C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-630-406529.dwg
MILLER WELDMASTER CORPORATION
 CUSTOMER: MILLER WELDMASTER
 DESCRIPTION: 3.5 METER, 25MM UPPER WELD BAR ASSY
 ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME.
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 1 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	5/31/2018	PAINT#:	NONE
.00 +/- .010"	CHECKED	ZR	5/31/2018	REVISION#:	0
.000 +/- .005"	APPROVED	ZR	5/31/2018	SCALE:	1:10
ANGLES +/- 1/4°					PART # A-IMP3-630-406529

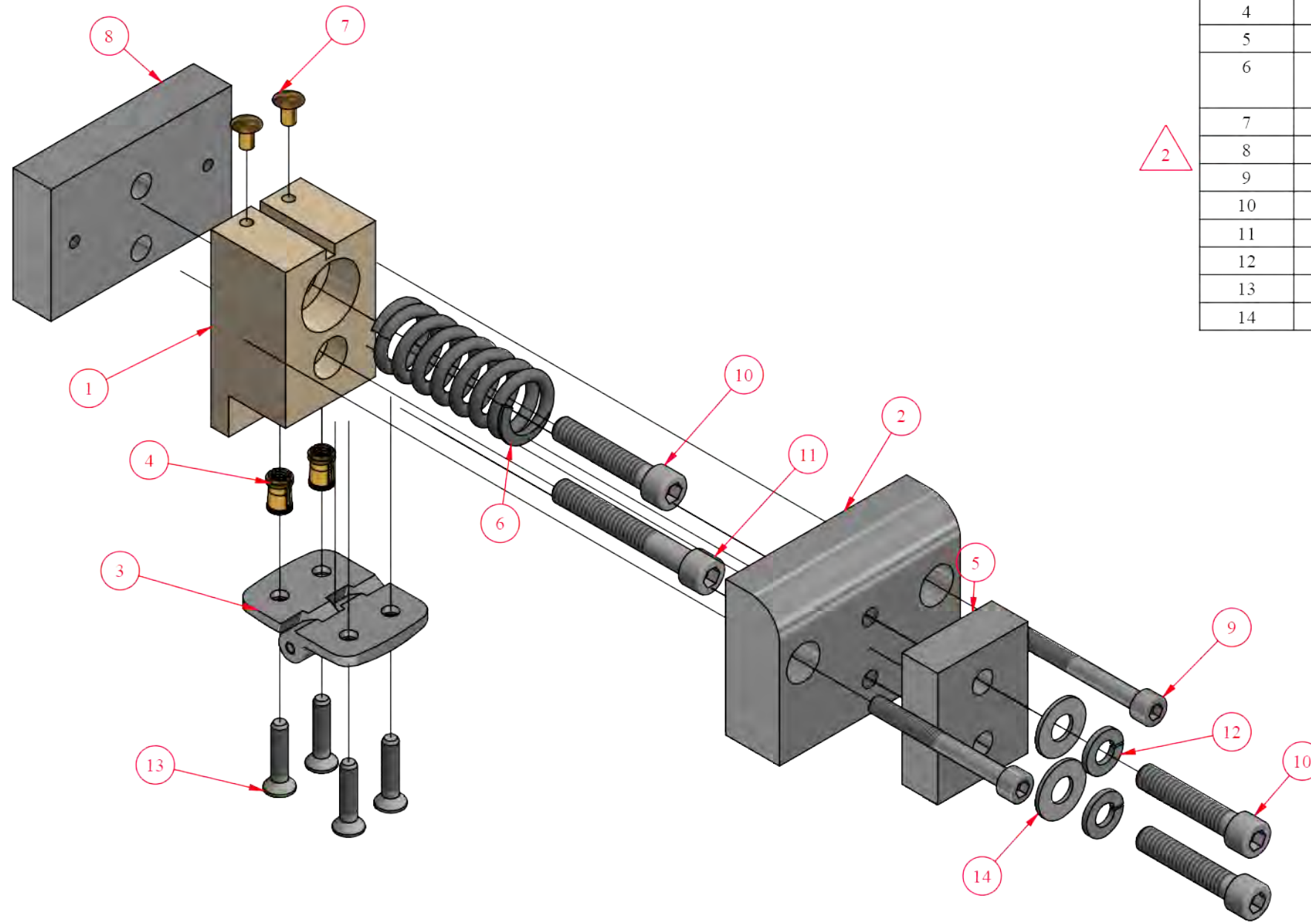
H G F E D C B A



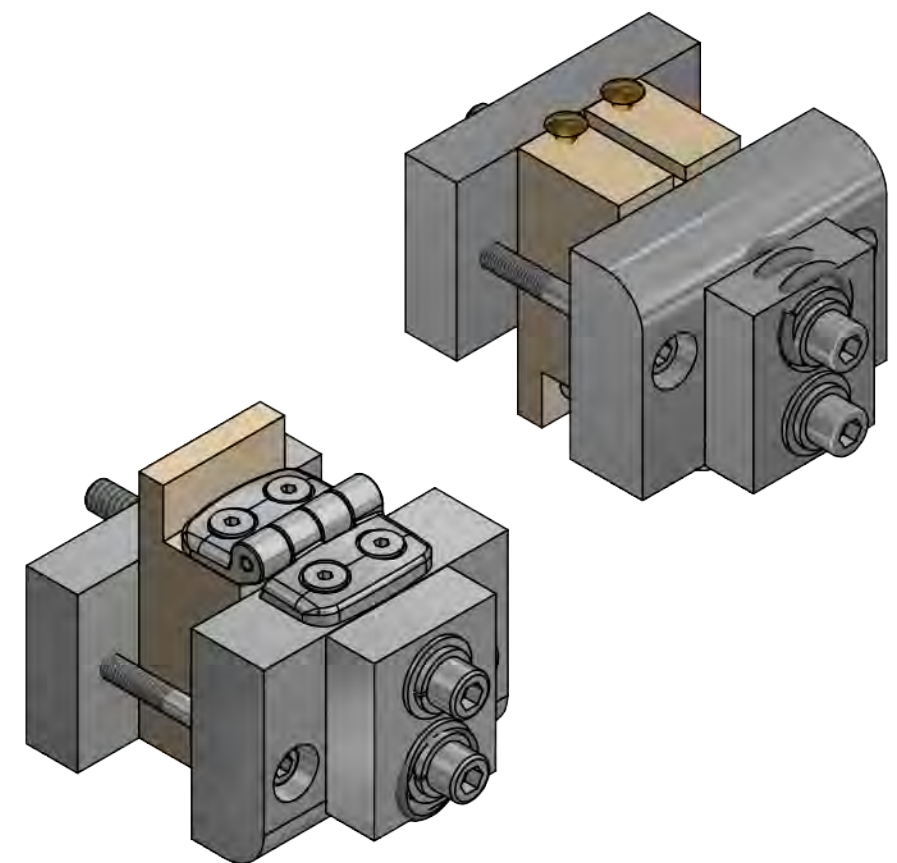
DETAIL A
SCALE 1 / 2

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-630-406529.dwg					
			CUSTOMER: MILLER WELDMASTER		
ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011			DESCRIPTION: 3.5 METER, 25MM UPPER WELD BAR ASSY		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	5/31/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/31/2018	REVISION #: 0	PART #
.000 +/- .005"	APPROVED	ZR	5/31/2018	SCALE: 1 / 2	A-IMP3-630-406529
ANGLES +/- 1/4°					

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ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	P-IMP3-240-403617	WELDING BAND INSULATOR TENSIONER
2	1	P-IMP3-240-403618	WELDING BAND TENSIONER ARM
3	1	P-IMP3-360-403628	T-SLOT FRAMING HINGE RAIL TO RAIL 20MM
4	2	P-IMP3-360-403629	BRASS THREADED INSERT FOR PLASTIC 8-32 .375" LG
5	1	P-IMP3-360-403631	WELD BAND CLAMP AND POWER BLOCK
6	1	P-PURC-630-406955	IMPULSE G3 WELD BAND TENSIONER SPRING 1.75" LG, .75" OD, COMPRESSED LG 1.06", MAX LOAD 117.13 LB
7	2	P-PURC-630-406956	IMPULSE G3 SILICONE BAND RIVET
8	1	4I410863	WELD BAND TENSIONER MOUNTING PLATE
9	2	FAST	10-32 UNF x 1.75" LG., SOCKET HEAD CAP SCREW
10	3	FAST	1/4-20 UNC x 1.25" LG., SOCKET HEAD CAP SCREW
11	1	FAST	1/4-20 UNC x 1.75" LG., SOCKET HEAD CAP SCREW
12	2	FAST	1/4" LOCK WASHER
13	4	FAST	8-32 UNC x 0.75" LG., FLAT HEAD CAP SCREW
14	2	FAST	1/4" SST FLAT WASHER, NARROW



SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Weld Bars\A-IMP3-630-403667.dwg

MILLER WELDMASTER CORPORATION

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: WELD BAND TENSIONER, 20MM / 25MM

ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME.
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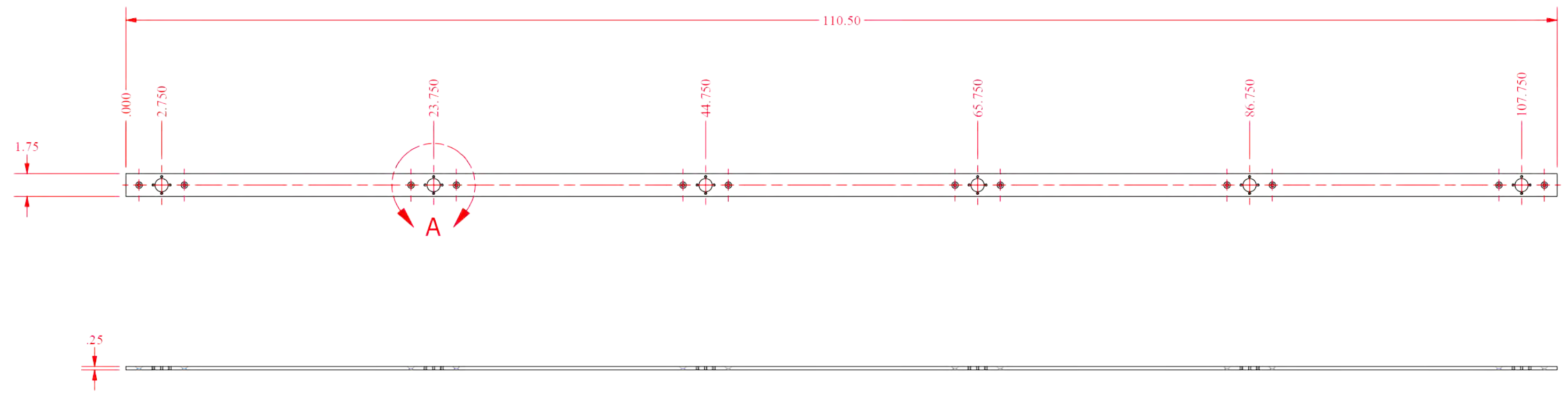
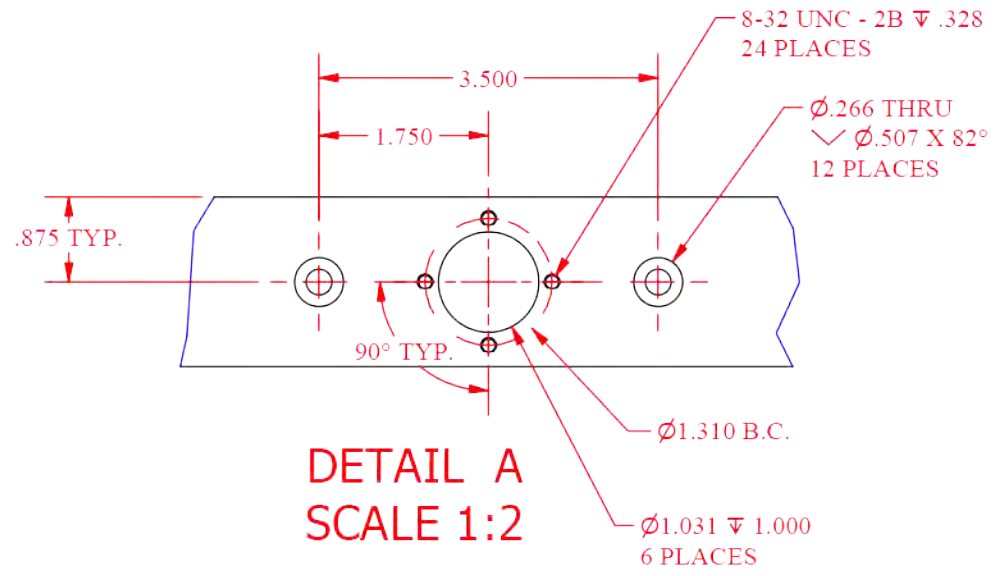
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	4/6/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/25/2018	REVISION #: 2	PART #
.000 +/- .005"	APPROVED	ZR	5/25/2018	SCALE: 3/4	A-IMP3-630-403667
ANGLES +/- 1/4°					

REV	DATE	APPROVED	DESCRIPTION
2	12/20/2019	JJS	REMOVED PARTS P-IMP3-360-406952 AND P-IMP3-360-406953. ADDED PART 4I410863
1	1/11/2019	MTH	ADDED PART #'S P-IMP3-360-406952, AND P-IMP3-360-406953

REVISION HISTORY

H G F E D C B A

STOCK NUMBER	DESCRIPTION
160228	FLAT 0.250 in X 1.750 in 6061 ALUM. X 110.500 in LG.



SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Parts\P-IMP3-630-406547.dwg

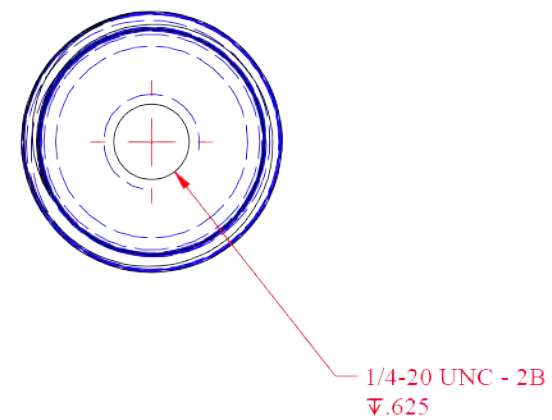
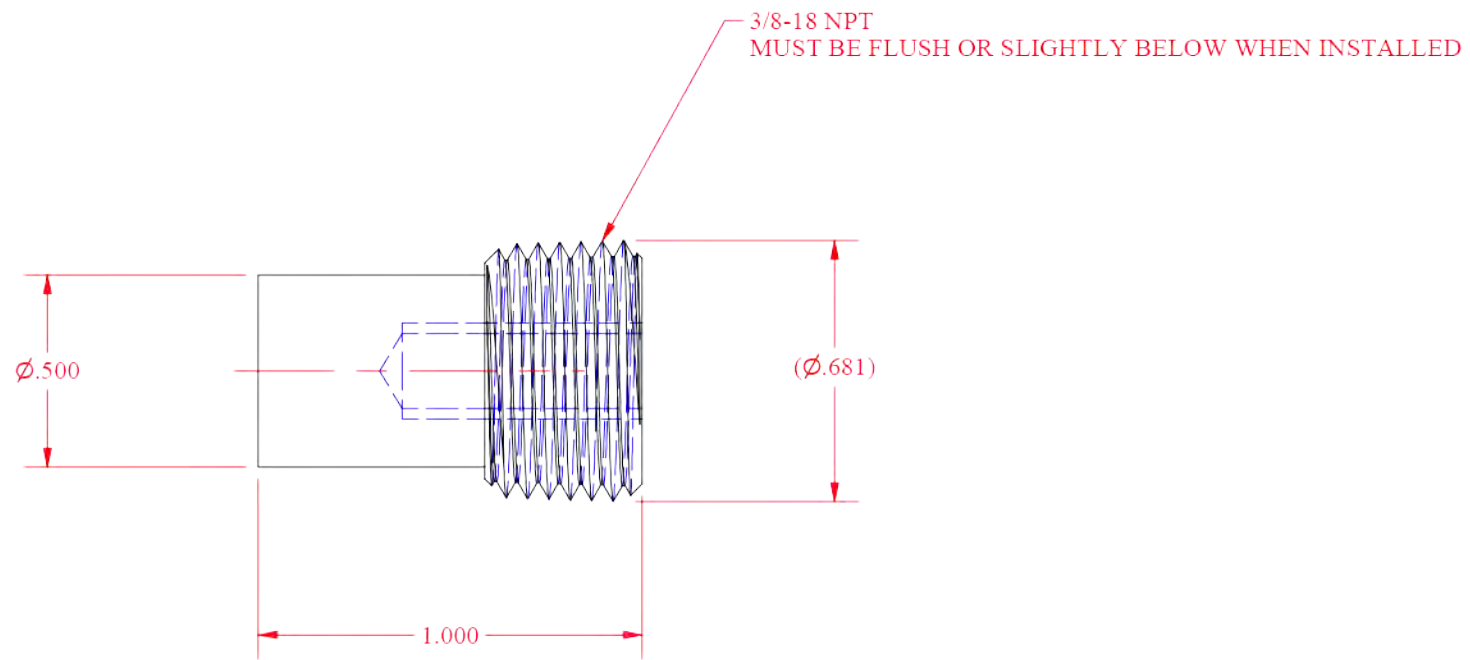
CUSTOMER: MILLER WELDMASTER
DESCRIPTION: LINEAR BALL BEARING MOUNT

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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	11/1/2018	PAINT #: MASS 4.56 lbmass
.00 +/- .010"	CHECKED		REVISION #: 0	PART #
.000 +/- .005"	APPROVED		SCALE: 1:8	P-IMP3-630-406547
ANGLES +/- 1/4°				

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STOCK NUMBER	DESCRIPTION
	ROUND 0.750 in O.D. S.S. X 1.000 in LG.

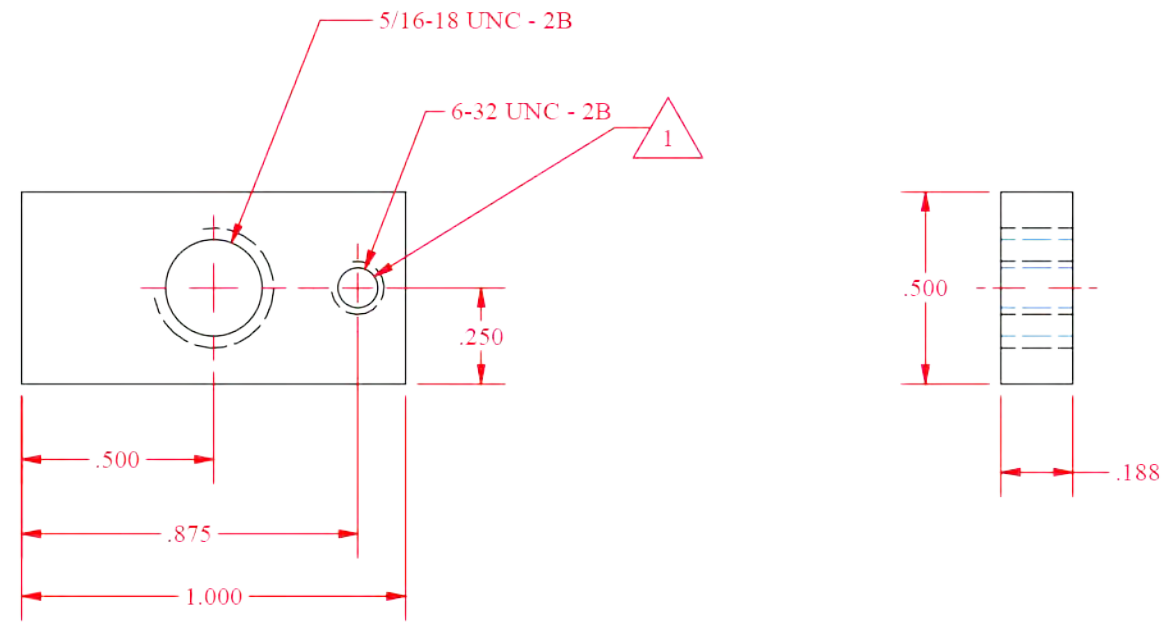
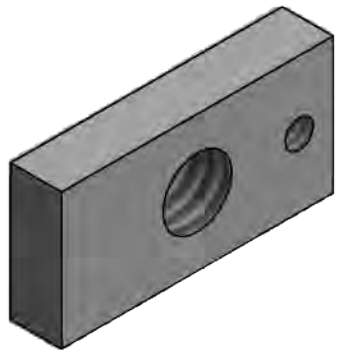


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse\IEM\WELD BARS\386978-A.dwg					
			CUSTOMER: MILLER WELDMASTER		
<small>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</small>			DESCRIPTION: IMPULSE EXTREME WELD BAR PLUG WITH CENTER HOLE DRILLED/TAPPED. REVISED		
TOLERANCE ± UNLESS NOTED	DRAWN jgraves	BY jgraves	DATE 7/27/2015	COLOR: NONE	SHEET 1 OF 1
FRACTION 1/16 DECIMAL .031 ANGULAR ½°	CHECKED	APPROVED	REVISION #: 1	BIN LOCATION: LA6	MASS 0.06 lbmass PART # 386978-A
				SCALE: 2:1	

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STOCK NUMBER	DESCRIPTION
310101	FLAT 0.188 in X 0.500 in HOT X 1.000 in LG.



5 REQ'D PER 3M MACHINE

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse\IEM\WELD BARS\386972.dwg

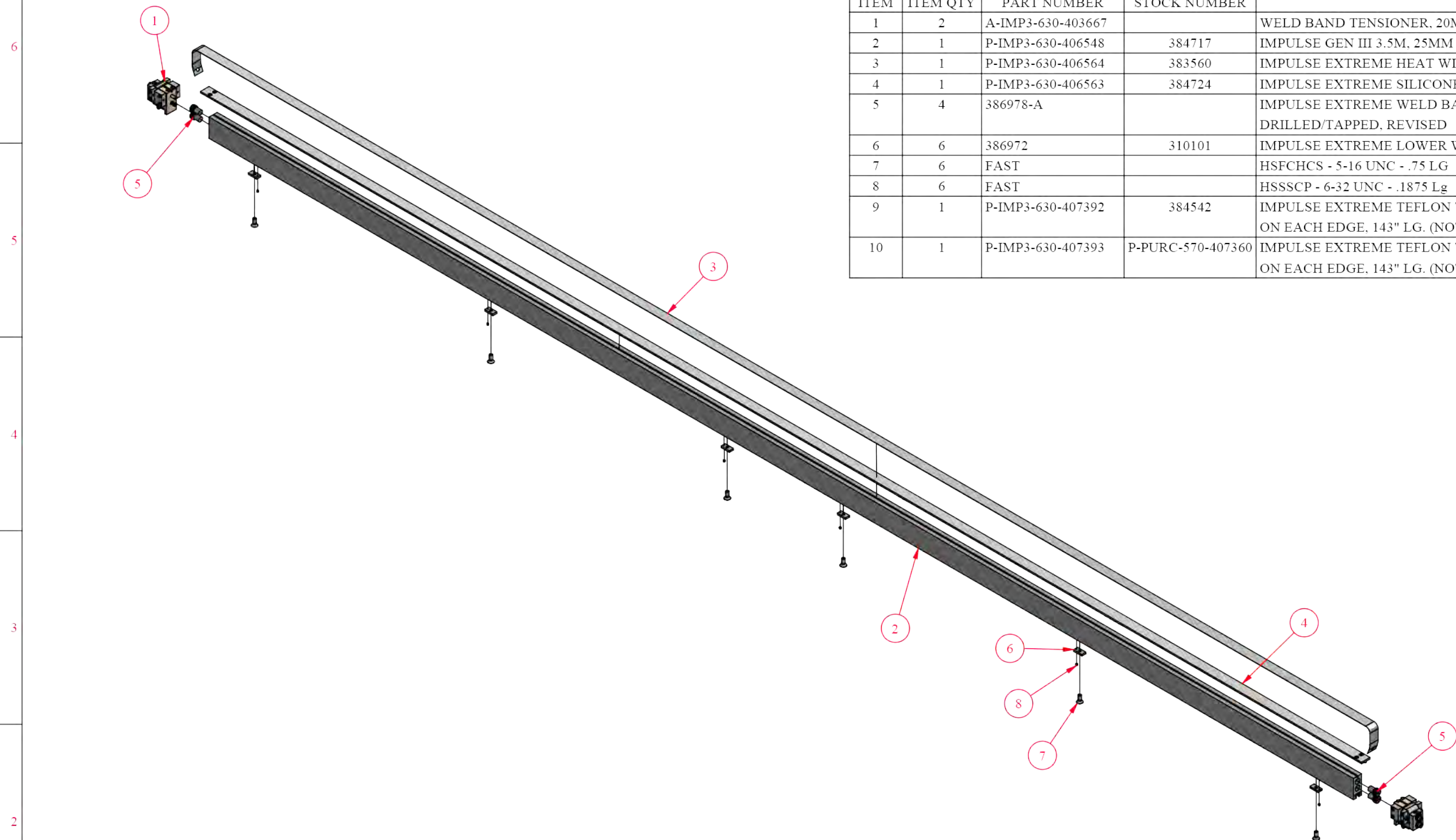
	CUSTOMER: MILLER WELDMASTER	
	DESCRIPTION: IMPULSE EXTREME LOWER WELD BAR ANCHOR	
<small>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</small>		COLOR: AGATE GREY REVISION #: 1 BIN LOCATION: LA6 SCALE: 1:1
TOLERANCE ± UNLESS NOTED FRACTION 1/16 DECIMAL .031 ANGULAR 1/2°	BY: jcastile DATE: 12/5/2011 CHECKED: APPROVED:	SHEET 1 OF 1 MASS N/A PART # 386972

REV	DATE	APPROVED	DESCRIPTION
1	1/25/2019	ZR	ADDED #6-32 TAPPED HOLE

REVISION HISTORY

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ITEM	ITEM QTY	PART NUMBER	STOCK NUMBER	TITLE
1	2	A-IMP3-630-403667		WELD BAND TENSIONER, 20MM / 25MM
2	1	P-IMP3-630-406548	384717	IMPULSE GEN III 3.5M, 25MM LOWER WELD BAR, 138.000"
3	1	P-IMP3-630-406564	383560	IMPULSE EXTREME HEAT WIRE-25mm X 143" LG.
4	1	P-IMP3-630-406563	384724	IMPULSE EXTREME SILICONE STRIP-25mm X 138" LG.
5	4	386978-A		IMPULSE EXTREME WELD BAR PLUG WITH CENTER HOLE DRILLED/TAPPED, REVISED
6	6	386972	310101	IMPULSE EXTREME LOWER WELD BAR ANCHOR
7	6	FAST		HSFCHCS - 5-16 UNC - .75 LG
8	6	FAST		HSSSCP - 6-32 UNC - .1875 Lg
9	1	P-IMP3-630-407392	384542	IMPULSE EXTREME TEFLON TAPE, 2-7/8" WIDE WITH 1/2" ADHESIVE ON EACH EDGE, 143" LG. (NOT SHOWN)
10	1	P-IMP3-630-407393	P-PURC-570-407360	IMPULSE EXTREME TEFLON TAPE, 1-7/8" WIDE WITH 1/2" ADHESIVE ON EACH EDGE, 143" LG. (NOT SHOWN)

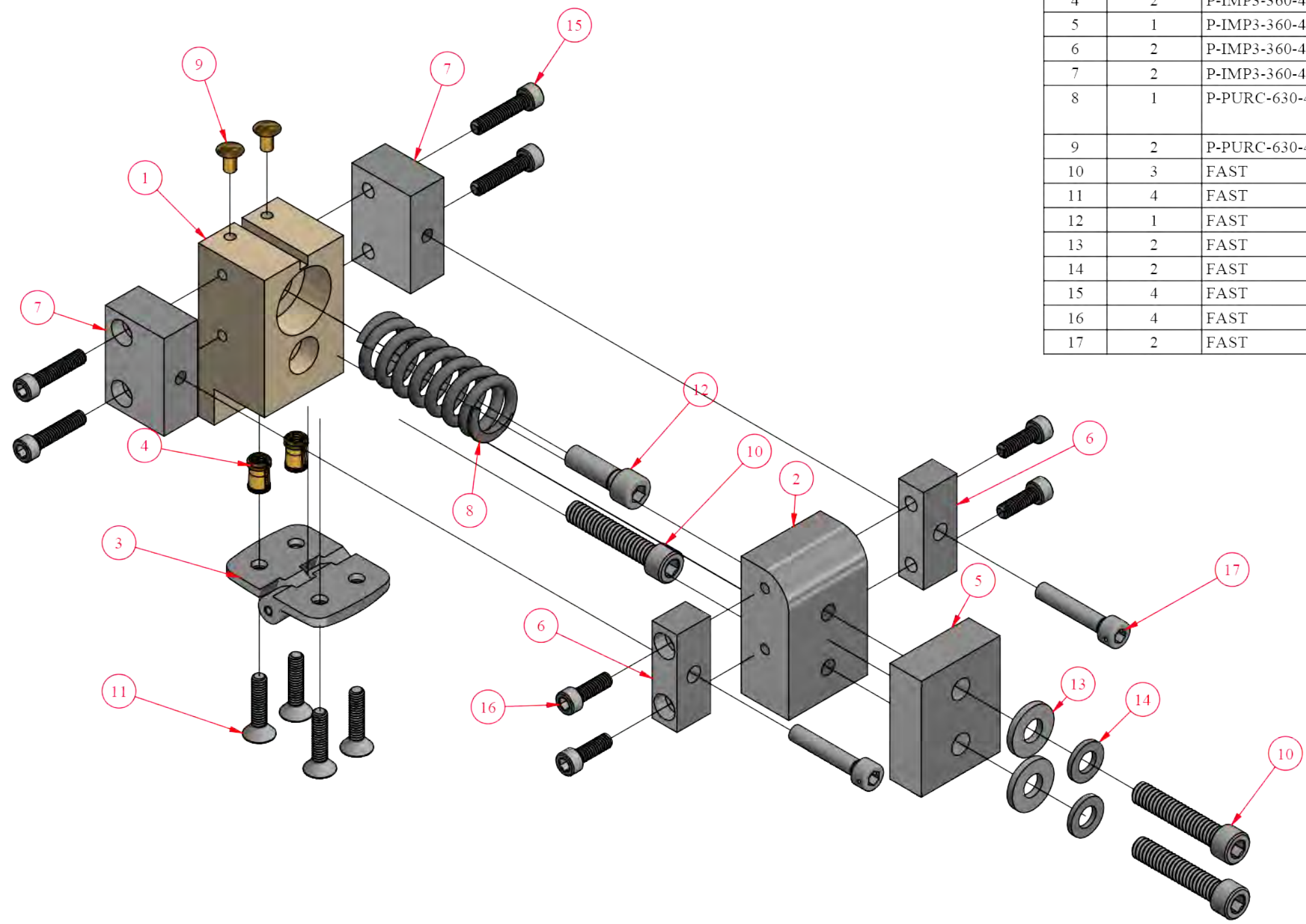
SAVED LOCATION:
 C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-630-406528.dwg

		CUSTOMER: MILLER WELDMASTER			
		DESCRIPTION: 3.5 METER, 25MM LOWER WELD BAR ASSY			
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	5/31/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/31/2018	REVISION #: 0	PART #
.000 +/- .005"	APPROVED	ZR	5/31/2018	SCALE: 1:9	A-IMP3-630-406528
ANGLES +/- 1/4°					

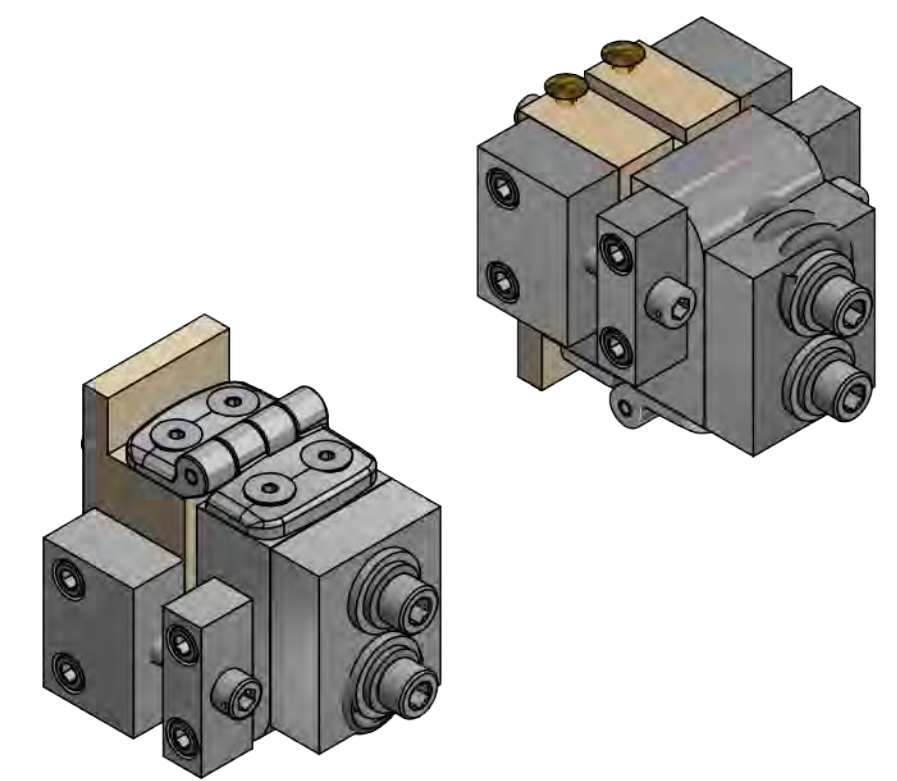
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ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	P-IMP3-240-403617	WELDING BAND INSULATOR TENSIONER
2	1	P-IMP3-240-403618	WELDING BAND TENSIONER ARM
3	1	P-IMP3-360-403628	T-SLOT FRAMING HINGE RAIL TO RAIL 20MM
4	2	P-IMP3-360-403629	BRASS THREADED INSERT FOR PLASTIC 8-32 .375" LG
5	1	P-IMP3-360-403631	WELD BAND CLAMP AND POWER BLOCK
6	2	P-IMP3-360-406952	OUTSIDE SPRING TENSIONER
7	2	P-IMP3-360-406953	INSIDE SPRING TENSIONER
8	1	P-PURC-630-406955	IMPULSE G3 WELD BAND TENSIONER SPRING 1.75" LG, .75" OD, COMPRESSED LG 1.06", MAX LOAD 117.13 LB
9	2	P-PURC-630-406956	IMPULSE G3 SILICONE BAND RIVET
10	3	FAST	HSHCS - 1-4-20 - 1.25"LG
11	4	FAST	HSHCS - 8-32 UNC - .75 Lg
12	1	FAST	HSHCS - 1-4-20 UNC - .75 Lg
13	2	FAST	WASHER FOR 1/4 SCREW SIZE
14	2	FAST	SPLIT LOCK WASHER - 1-4
15	4	FAST	HSHCS - 8-32 UNC - .75 Lg
16	4	FAST	HSHCS - 8-32 UNC - .5 Lg
17	2	FAST	HSHCS - 10-32 UNF - 1 Lg

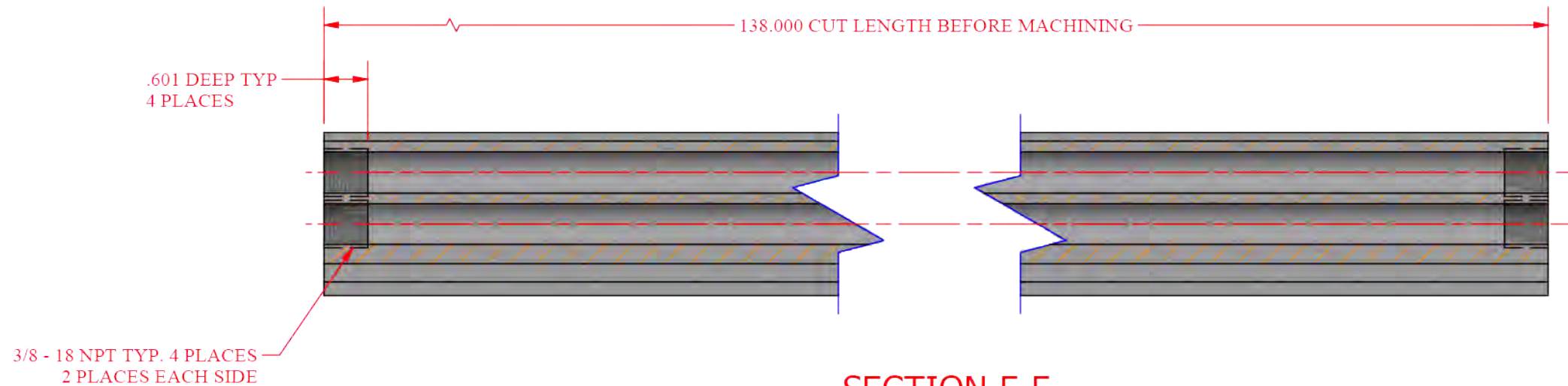
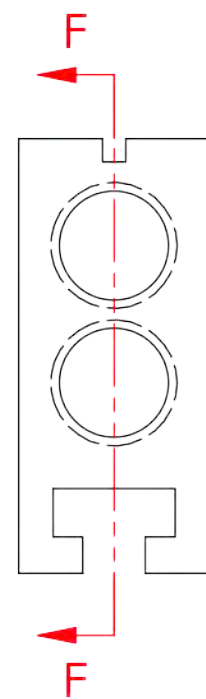


REV	DATE	APPROVED	DESCRIPTION
1	1/11/2019	MTH	ADDED PART #'S P-IMP3-360-406952, AND P-IMP3-360-406953

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-630-403667.dwg				CUSTOMER: MILLER WELDMASTER		
MILLER WELDMASTER CORPORATION ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011				DESCRIPTION: WELD BAND TENSIONER, 20MM / 25MM		
TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR:	NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	CHECKED	ZR	5/25/2018	PAINT#:	NONE	MASS 1.22 lbmass
.00 +/- .010"	APPROVED	ZR	5/25/2018	REVISION#:	1	PART #
.000 +/- .005"				SCALE:	3/4	A-IMP3-630-403667
ANGLES +/- 1/4°						

H G F E D C B A

STOCK NUMBER	DESCRIPTION
384717	IMPULSE EXTREME 25MM ALUMINUM WELD BAR EXTRUSION (IEM) (Extrusions are 20ft long)



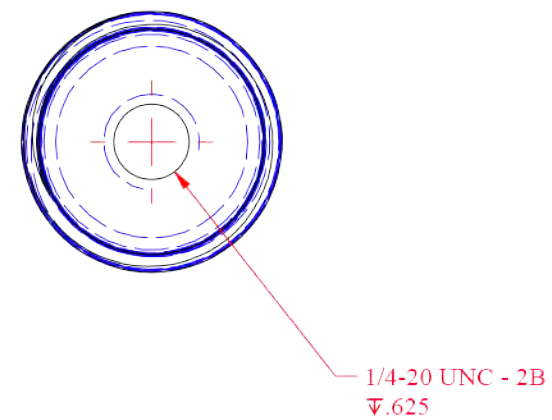
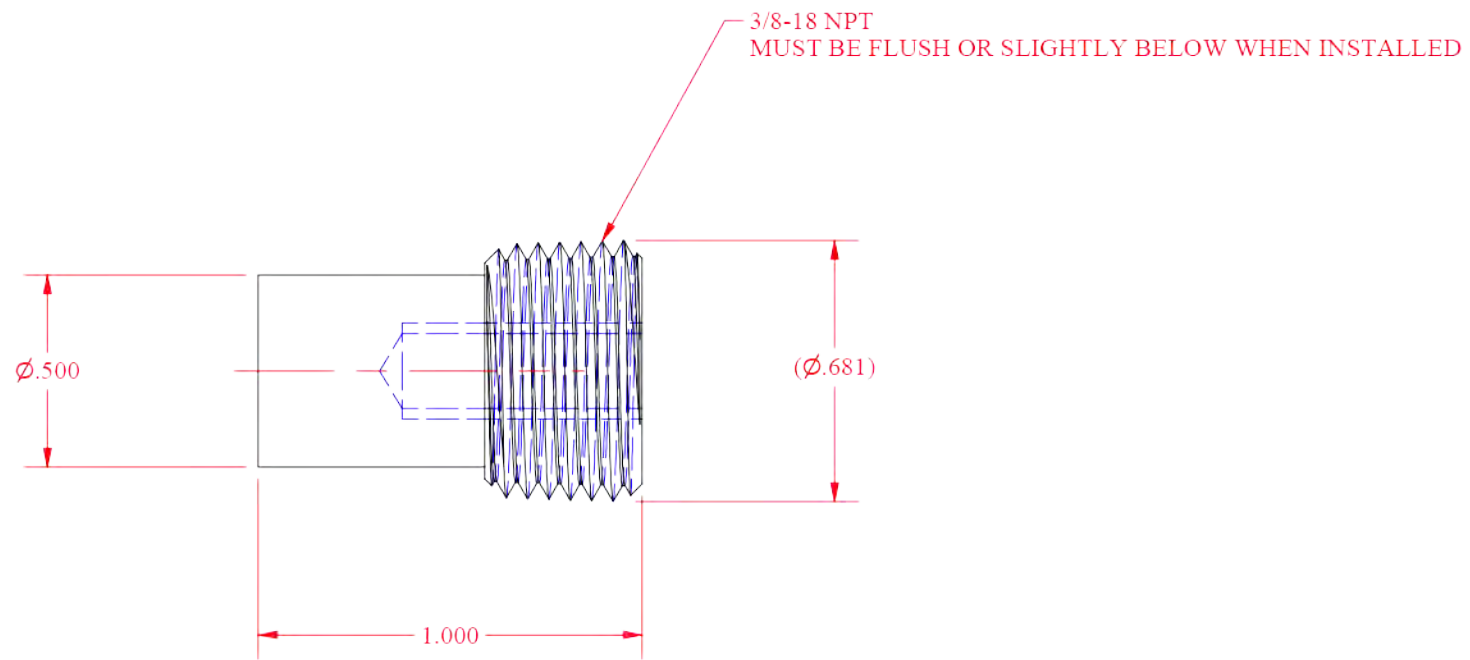
SECTION F-F
SCALE 1:2

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Parts\P-IMP3-630-406548.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	MTH	1/10/2019	PAINT #:	MASS 9.04 kg
.00 +/- .010"	CHECKED			REVISION #: 0	PART #
.000 +/- .005"	APPROVED			SCALE: 1 : 1	P-IMP3-630-406548
ANGLES +/- 1/4°					

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STOCK NUMBER	DESCRIPTION
	ROUND 0.750 in O.D. S.S. X 1.000 in LG.

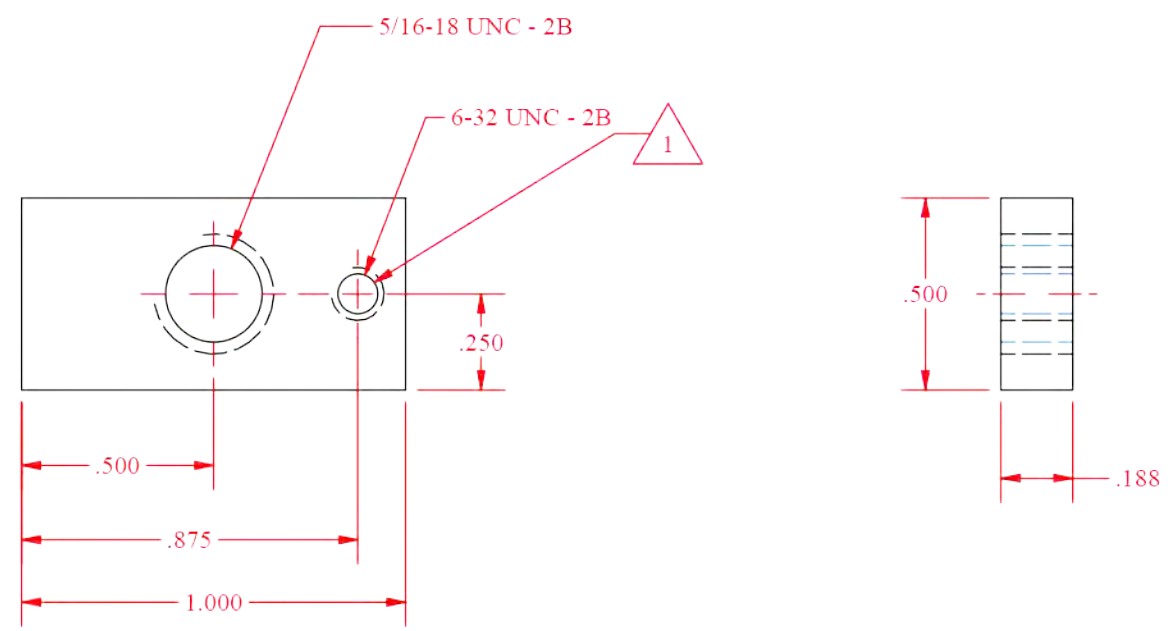
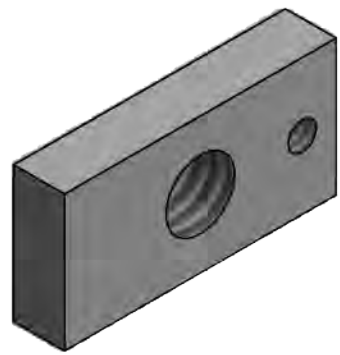


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse\IEM\WELD BARS\386978-A.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: NONE	SHEET 1 OF 1	
FRACTION 1/16	DRAWN	jgraves	7/27/2015	REVISION #: 1	MASS 0.06 lbmass
DECIMAL .031	CHECKED			BIN LOCATION: LA6	PART #
ANGULAR ½°	APPROVED			SCALE: 2:1	386978-A

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STOCK NUMBER	DESCRIPTION
310101	FLAT 0.188 in X 0.500 in HOT X 1.000 in LG.



5 REQ'D PER 3M MACHINE

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse\IEM\WELD BARS\386972.dwg

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: IMPULSE EXTREME LOWER WELD BAR ANCHOR

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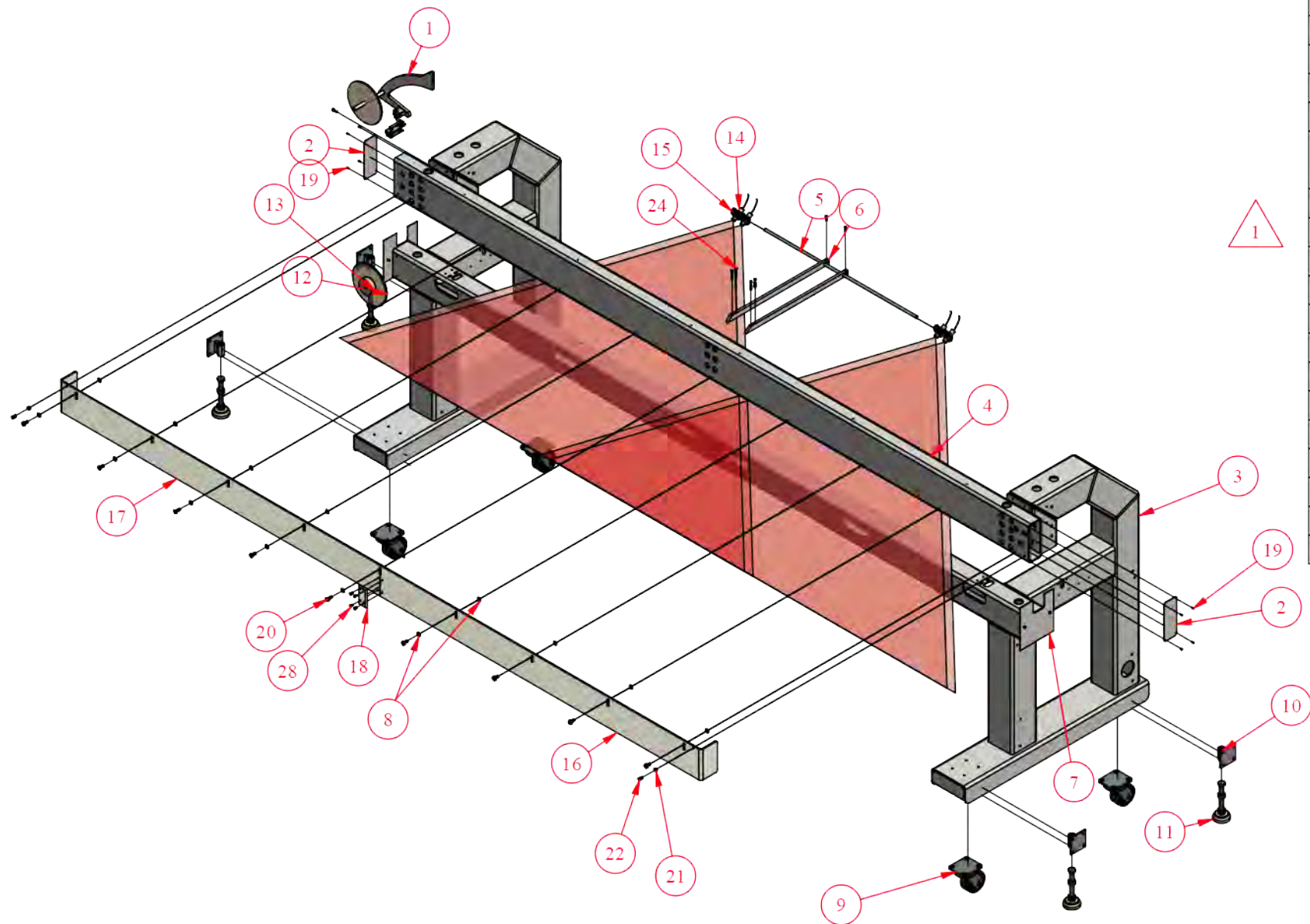
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: AGATE GREY	SHEET 1 OF 1
FRACTION 1/16	DRAWN	12/5/2011	REVISION #: 1	MASS N/A
DECIMAL .031	CHECKED		BIN LOCATION: LA6	PART #
ANGULAR 1/2°	APPROVED		SCALE: 1:1	386972

REV	DATE	APPROVED	DESCRIPTION
1	1/25/2019	ZR	ADDED #6-32 TAPPED HOLE

REVISION HISTORY

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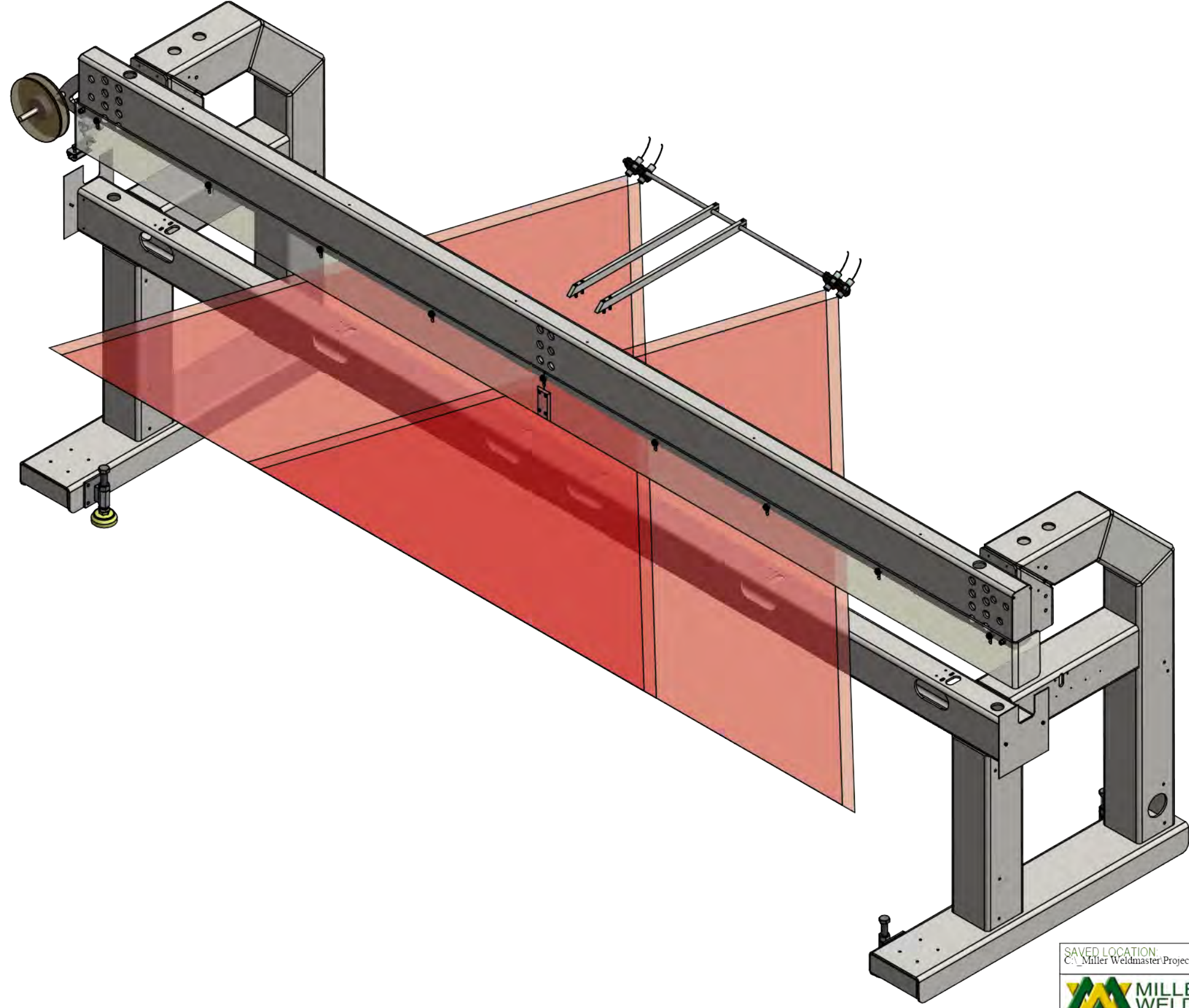
ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	A-IMP3-570-404830	IMPULSE GEN II TAPE DISPENSER ASSEMBLY
2	2	P-IMP3-250-404330	END CAP, UPPER WELD BEAM
3	1	W-IMP3-250-406544	MAIN FRAME 3M, WELDED, COMPELTE
4	1	P-IMP3-250-406540	UPPER WELD BAR, 3.5M
5	1	P-IMP3-360-406962	ROUND 1/2" O.D. S.S. X 36" LG.
6	2	P-IMP3-360-406963	LASER MOUNT ARM
7	2	P-IMP3-250-406965	END CAP - LOWER WELD BAR COVER
8	18	F-IMP3-240-404387	NYLON PLASTIC WASHER FOR SCREW SIZE 3/8
9	4	379131	4" PHENOLIC CASTER WHEEL, SWIVEL, 800 POUNDS!
10	4	387808	FRAME FOOT PAD MOUNTING BRACKET; PS400
11	4	387621	FRAME HEIGHT ADJUSTER ASSEMBLY
12	2	380684-3	112 EXTREME ACRYLIC TAPE DISPENSER LEXAN DISC
13	1	323048-2	112 ALUMINUM TAPE DISPENSER CORE
14	4	330600-1	LASER FOR 112, IMPULSE & CUSTOM EQUIPMENT (2014 VERSION)
15	4	385566-1	1/2" X 3/4" CROSS BLOCK WITH SS 1/4-20 BOLTS AND NICKEL PLATED BRASS NUTS
16	1	4I407642	WELD BAR GUARD, 3.5 METER, RIGHT
17	1	4I407643	WELD BAR GUARD, 3.5 METER, LEFT
18	1	4I407644	3.5M CLEAR LEXAN GUARD, MIDDLE
19	8	FAST	HSHCS - 4-40 UNC - .3125 Lg
20	9	FAST	HSHSS - 5-16-18 UNC - .375 OD .375 Lg
21	2	FAST	HN - 5-16-18 UNC
22	2	FAST	HSHCS - 5-16-18 UNC - .5 Lg
23	1	FAST	HSHCS - 1-4-20 UNC - .75 Lg
24	4	FAST	HSHCS - 10-32 UNF - 1.5 Lg
25	2	FAST	HSHCS - 10-32 UNF - .75 Lg
26	4	FAST	HSHCS - 10-32 UNF - .5 Lg
27	1	FAST	HSHCS - 1-4-20 UNC - 1.75 Lg
28	4	FAST	HSFCHCS - 10-32 UNF - .5 Lg

REV	DATE	APPROVED	DESCRIPTION
1	1/2/2020	JJS	ADDED 3.5 METER WELD BAR GARDS, ITEMS 16,17, AND 18. UPDATED DRAWING TO SHOW CHANGES.

REVISION HISTORY

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-320-406530.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED FRACTION +/- 1/16"		DRAWN zralston	BY ZR	DATE 5/31/2018	COLOR: NONE PAINT #: NONE
.00 +/- .010" .000 +/- .005" ANGLES +/- 1/4°		CHECKED ZR	APPROVED ZR	DATE 6/4/2018	REVISION #: 1 SCALE: 1/25
				SHEET 1 OF 2 MASS N/A	PART # A-IMP3-320-406530

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SAVED LOCATION:
 C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Assemblies\A-IMP3-320-406530.dwg



CUSTOMER: MILLER WELDMASTER

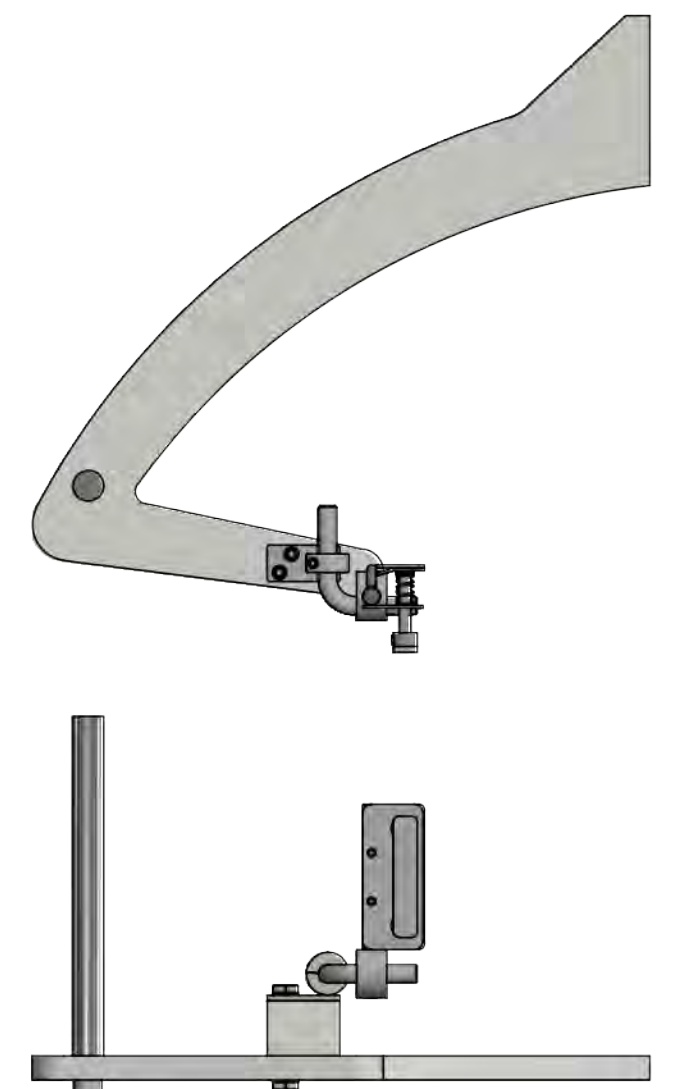
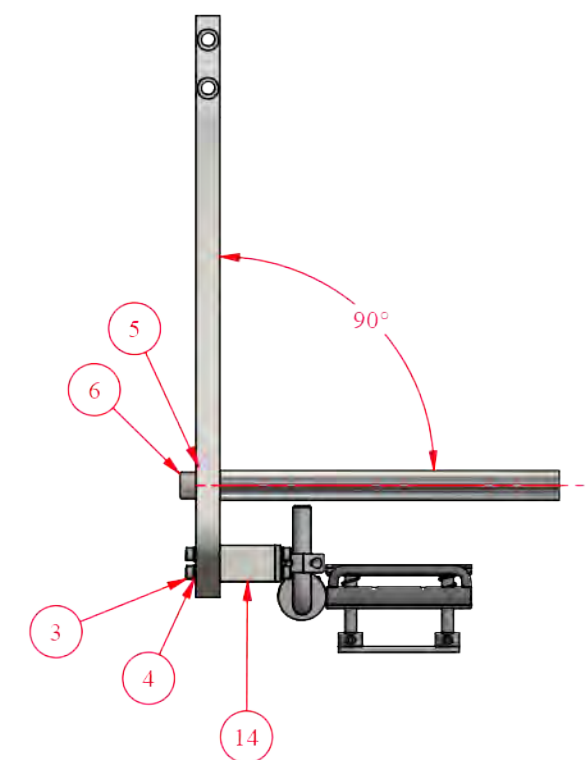
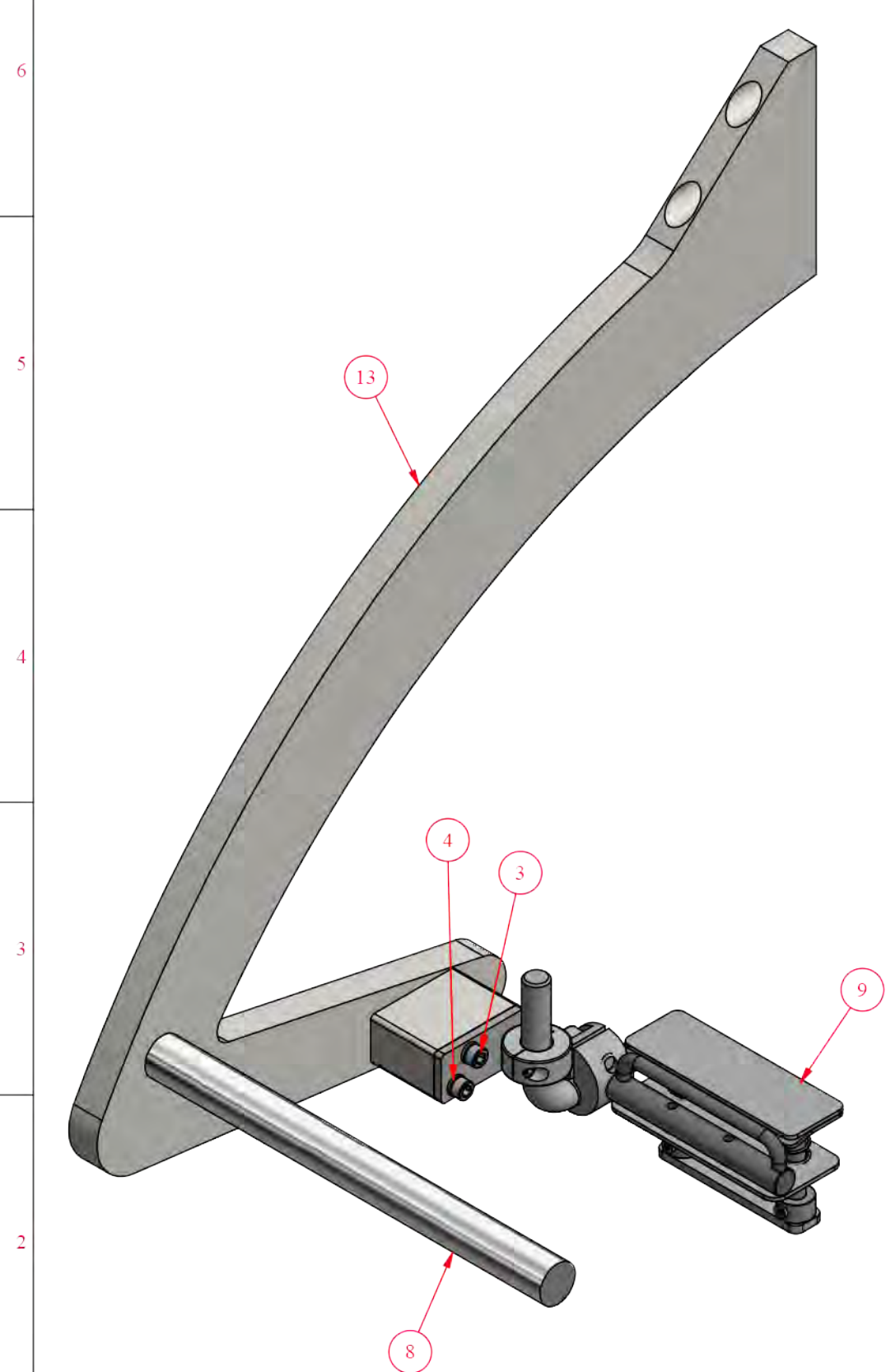
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DESCRIPTION:
 GUARDING, COVERS, & FINAL ASSY

TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE	SHEET 2 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	5/31/2018	PAINT #:	NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/4/2018	REVISION #:	1	PART #
.000 +/- .005"	APPROVED	ZR	6/4/2018	SCALE:	1/13	A-IMP3-320-406530
ANGLES +/- 1/4°						

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ITEM	ITEM QTY	PART NUMBER	TITLE
14	1	P-IMP3-570-407113	TAPE GUIDE SPACER
8	1	P-IMP3-570-407112	TAPE ROLL BAR
13	1	P-IMP3-570-407110	TAPE ARM, STATIONARY FRAME MOUNTING
3	4	FAST	HSHCS - 8-32 UNC - .5 Lg
4	4	FAST	SPLIT LOCK WASHER - 8
5	1	FAST	FLAT WASHER 3/8
6	1	FAST	HEX SOCKET CAP SCREW 3/8-16 X 3/4 L.G.
9	1	387708	IMPULSE EXTREME TAPE GUIDE ASSEMBLY
10	1	385208	PHOTO-EYE MOUNTING BRACKET, IMPULSE

REV	DATE	APPROVED	DESCRIPTION
1	1/18/2019	ZR	REVISED ASSEMBLY FOR STATIONARY MOUNTING TO FRAME

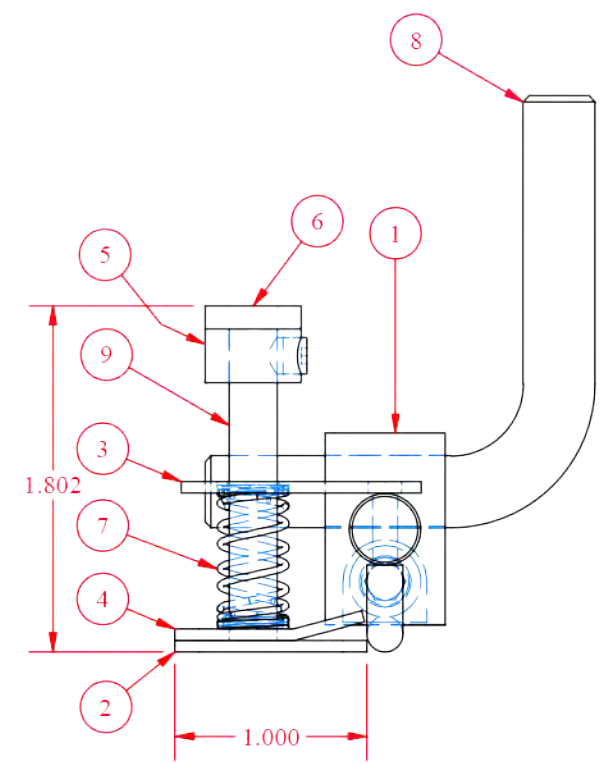
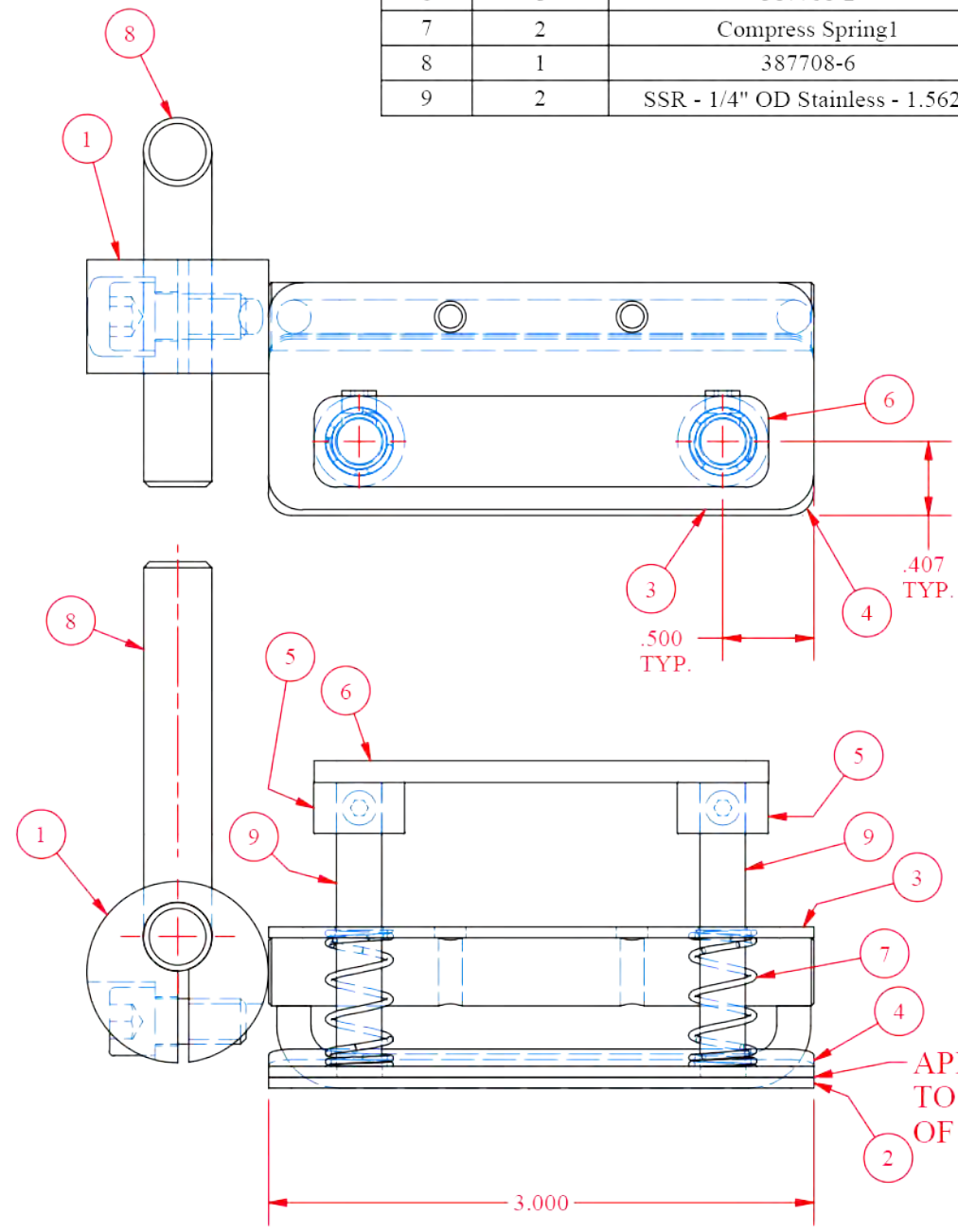
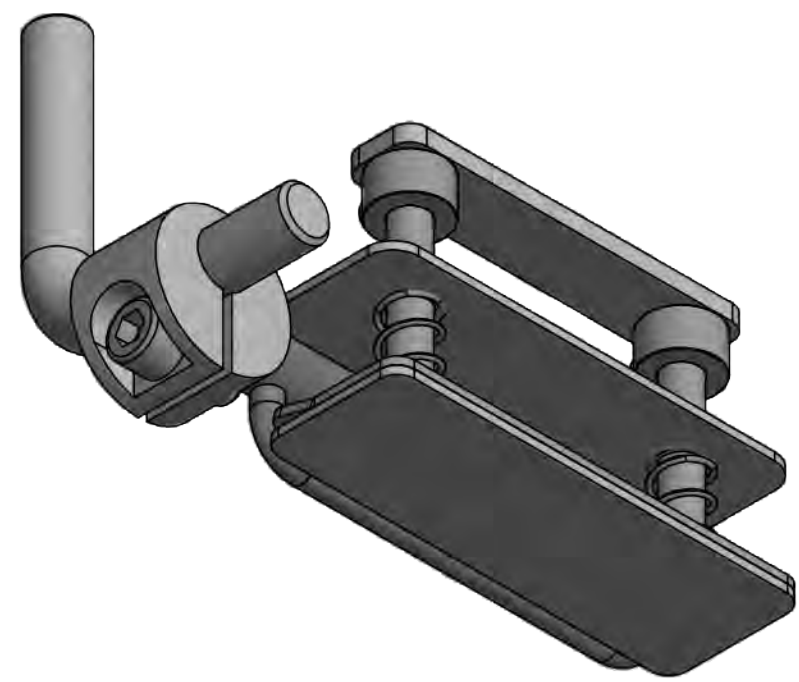
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TOLERANCE ± UNLESS NOTED		DRAWN	BY	DATE	COLOR: NONE	SHEET 1 OF 1
FRACTION 1/16	DECIMAL .031	CHECKED	MTH	4/17/2017	REVISION #: 1	MASS N/A
ANGULAR 1/2°		APPROVED			BIN LOCATION: N.S.	PART # A-IMP3-570-404830
					SCALE: 1:4	

CUSTOMER: MILLER WELDMASTER
 DESCRIPTION: IMPULSE GEN 3 TAPE DISPENSER ASSEMBLY

H G F E D C B A

ITEM	ITEM QTY	PART NUMBER	STOCK NUMBER	TITLE
1	1	387708-5		IMPULSE EXTREME TAPE GUIDE RE-WORK
2	1	387708-3	160080	IMPULSE EXTREME LOWER PLATE, TAPE GUIDE
3	1	387708-1	160080	IMPULSE EXTREME UPPER PLATE, TAPE GUIDE
4	1	387708-4	160080	IMPULSE EXTREME ADJUSTABLE PLATE, TAPE GUIDE
5	2	P-0IMP-330-403089	McM#6462K12	1/4" SET COLLAR, SST. McM#6462K12
6	1	387708-2	112101	IMPULSE EXTREME ADJUSTMENT PLATE, TAPE GUIDE
7	2	Compress Spring1		
8	1	387708-6	112009	IMPULSE EXTREME PIVOT ARM
9	2	SSR - 1/4" OD Stainless - 1.5625	112005	ROUND 0.2500 in O.D. 303 S.S. X 1.5625 in LG.



1 REQ'D PER MACHINE

REV	DATE	APPR	DESCRIPTION
1	3/5/18	JHS	CHANGED ITEM #5 SET COLLAR TO SST.

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse\IEM\TAPE DISPENSER\387708.dwg

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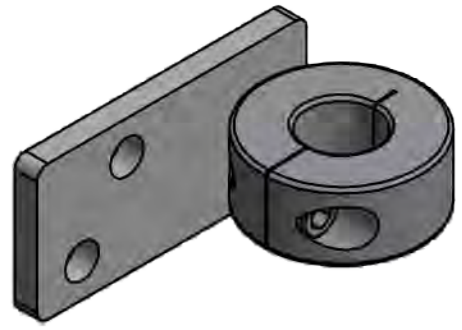
CUSTOMER: MILLER WELDMASTER

DESCRIPTION: IMPULSE EXTREME TAPE GUIDE ASSEMBLY

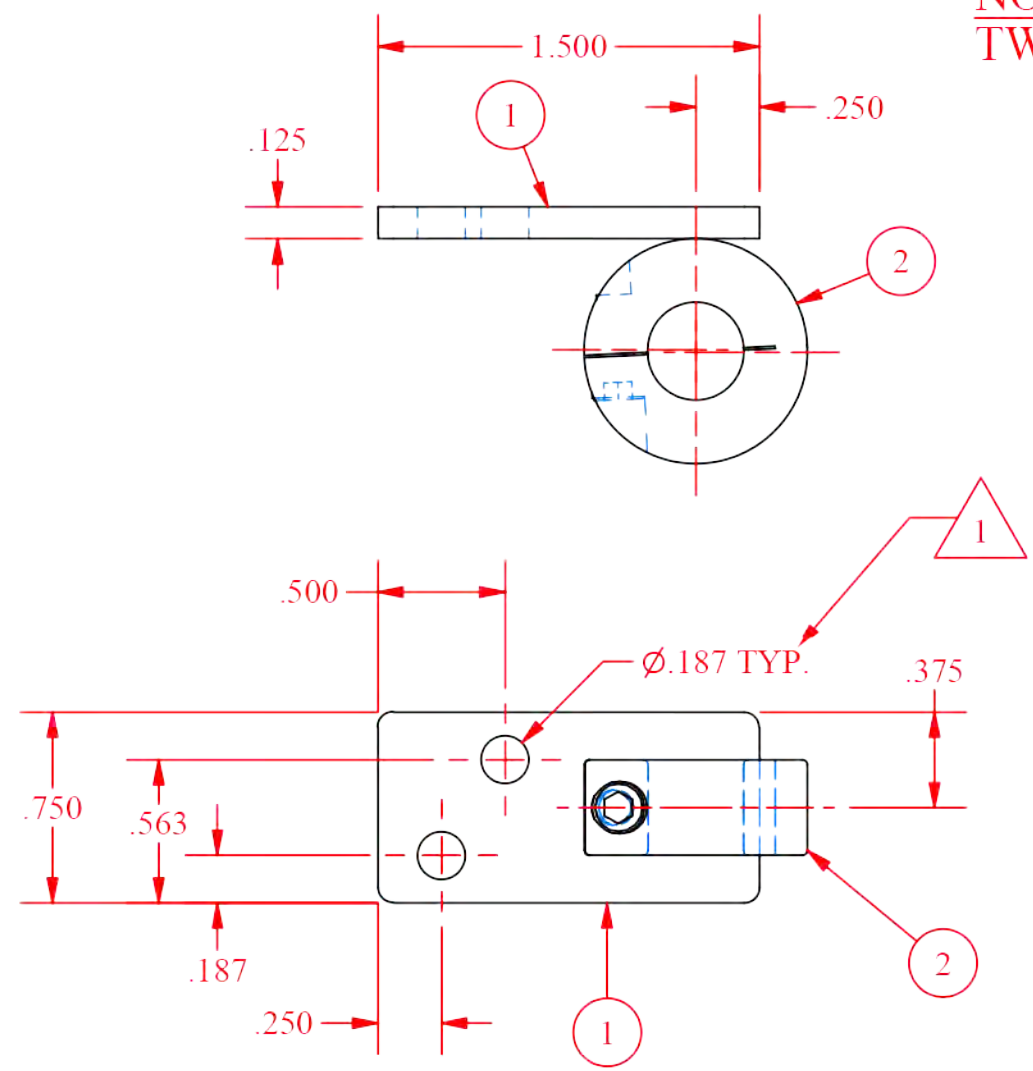
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	SHEET 1 OF 2
FRACTION 1/16	DRAWN	3/12/2013	REVISION # 0	MASS 0.63 lbmass
DECIMAL .031	CHECKED		BIN LOCATION: LA4	PART #
ANGULAR 1/2°	APPROVED		SCALE: 1:1	387708

ITEM	ITEM QTY	PART NUMBER	STOCK NUMBER	TITLE
1	1	385208	112109	FLAT 1/8" X 3/4" STAINLESS X 1-1/2" LG.
2	1	379250	379250	3/8" STAINLESS CLAMP COLLAR, SINGLE SPLIT



NOTE:
TWO NEEDED PER ASS'Y.



SAVED LOCATION:
C:_Miller Weldmaster\Projects\Miller Machines\Impulse\Gurki\Guarding\385208.dwg

MILLER WELDMASTER CORPORATION

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: PHOTO-EYE MOUNTING BRACKET, IMPULSE

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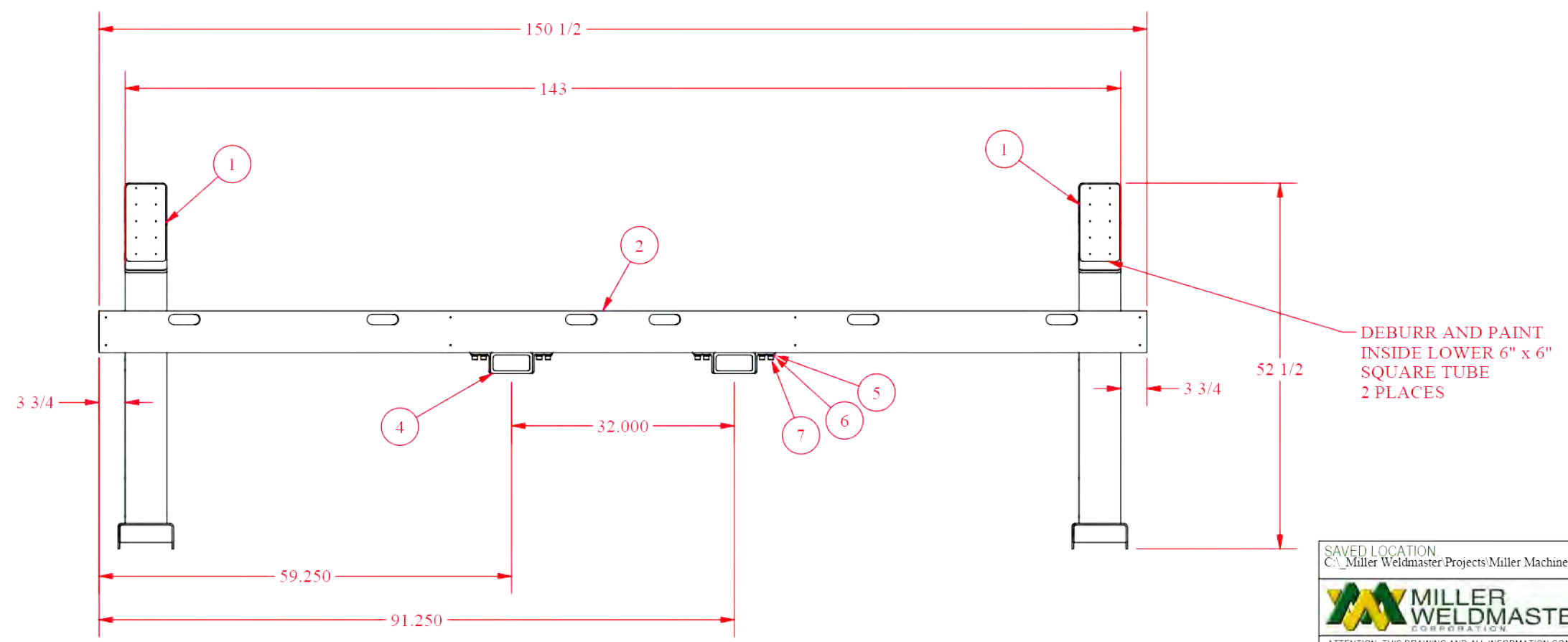
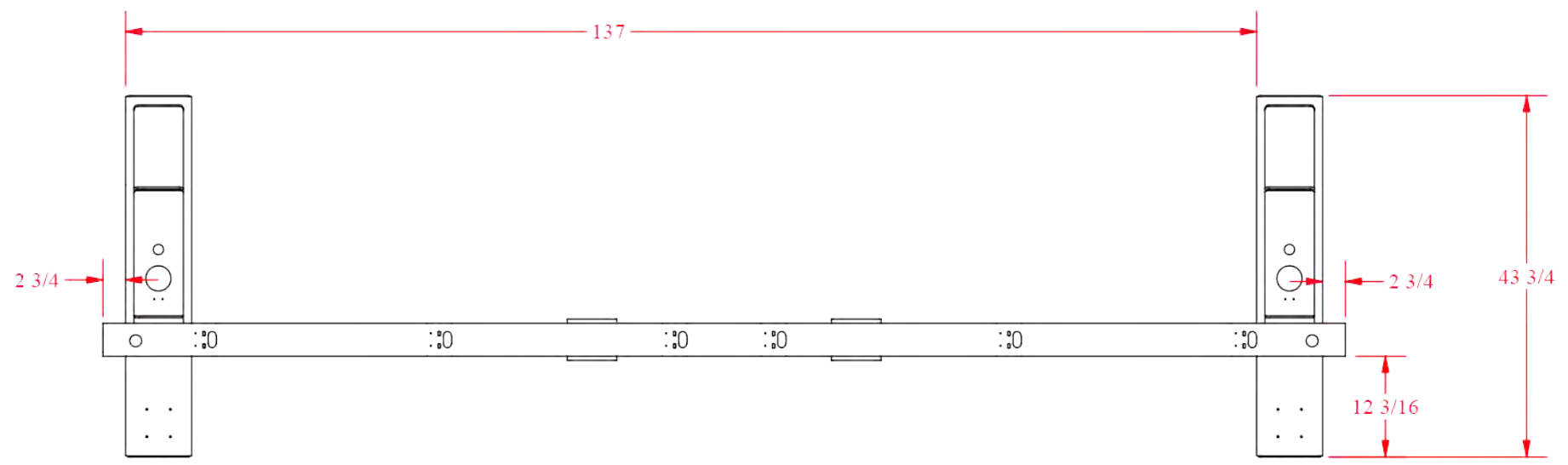
TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	SHEET 1 OF 1
FRACTION 1/16	Jgraves	2/25/2011	REVISION #: 1	MASS 0.09 lbmass
DECIMAL .031	CHECKED		BIN LOCATION: LA3	PART #
ANGULAR 1/2°	APPROVED		SCALE: 1:1	385208

REV	DATE	APPR	DESCRIPTION
1	3/18/11	BAL	Revised holes and location

REVISION HISTORY

H G F E D C B A

ITEM	ITEM QTY	PART NUMBER	TITLE
1	2	W-IMP3-250-402888	END FRAME, IMPULSE WELDED
2	1	P-IMP3-250-406546	LOWER BEAM, 3.5M FRAME
4	2	W-IMP3-250-407269	FORK POCKET WELDMENT
5	16	FAST	WASHER - 1-2
6	16	FAST	SPLIT LOCK WASHER - 1-2
7	16	FAST	HSHCS - 1-2-13 UNC - 1 Lg



REV	DATE	APPROVED	DESCRIPTION
2	2/1/2019	ZR	CHANGED FORK POCKETS FROM WELD TO BOLT ON
1	1/18/2019	ZR	ADDED NOTE TO PAINT INSIDE OF END FRAME 6" x 6" EXTENSION TUBES

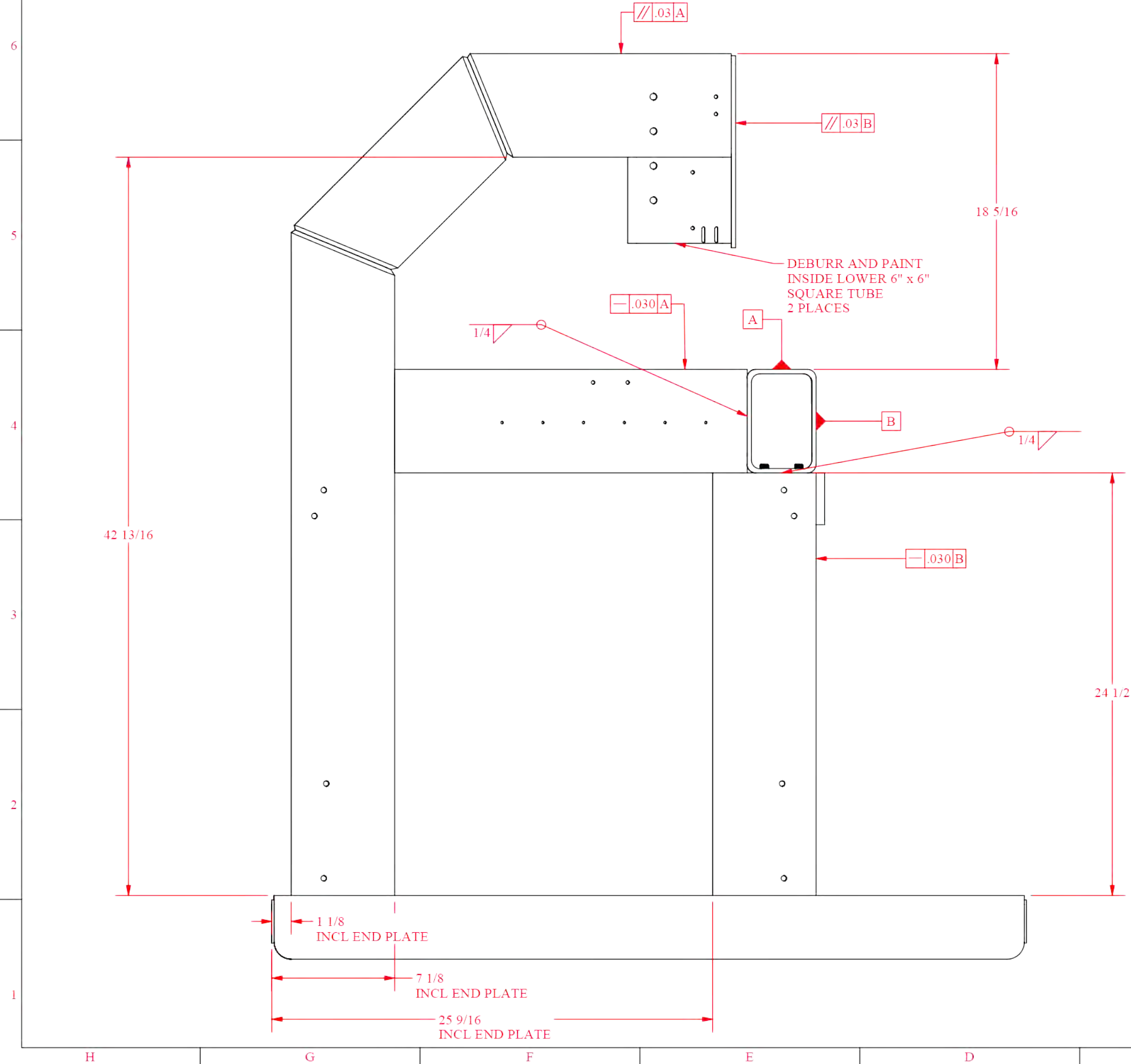
SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Frame\W-IMP3-250-406544.dwg

MILLER WELDMASTER CORPORATION

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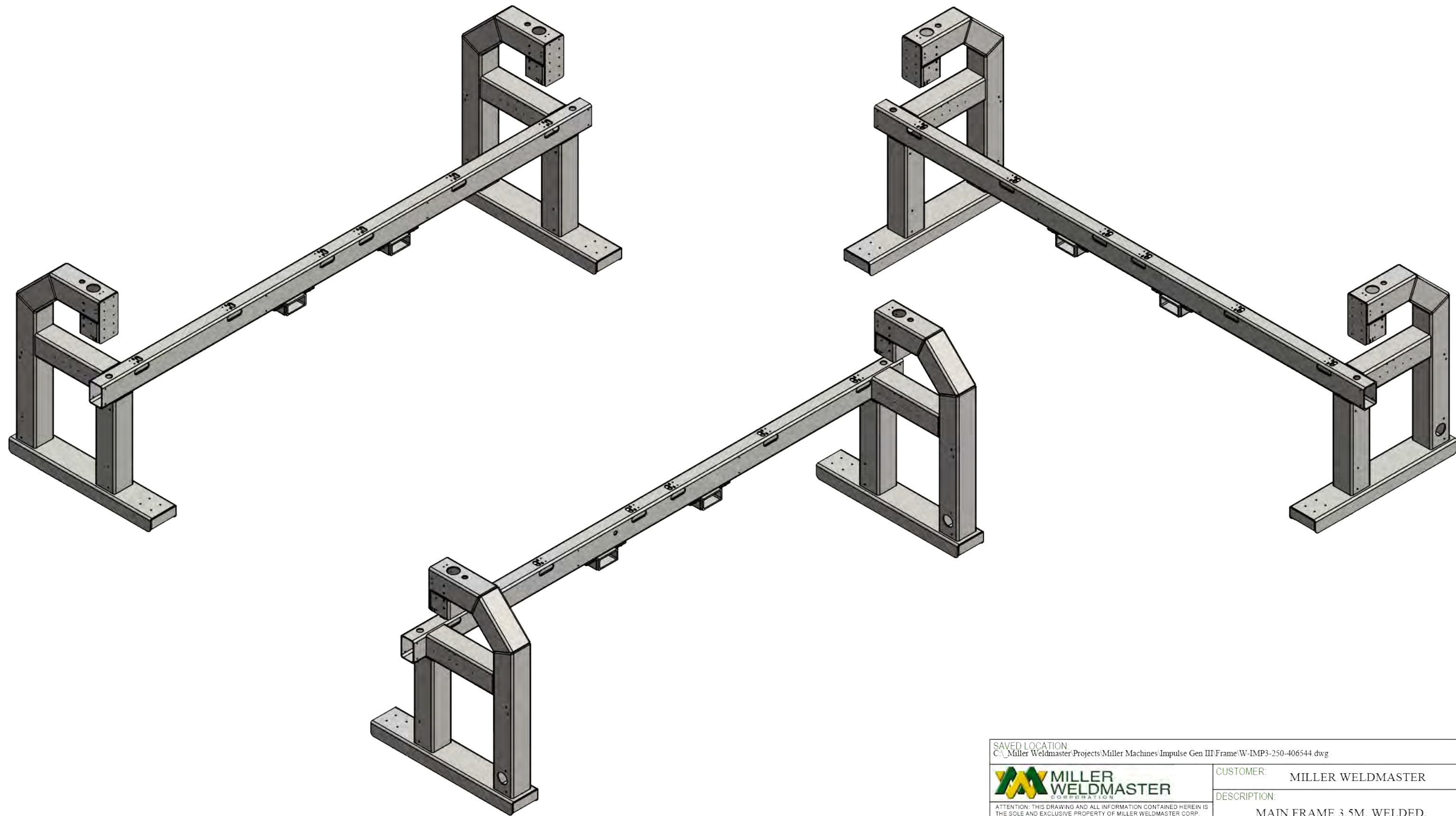
CUSTOMER:	MILLER WELDMASTER
DESCRIPTION:	MAIN FRAME 3.5M, WELDED, COMPLETE
TOLERANCE ± UNLESS NOTED	
FRACTION +/- 1/16"	DRAWN zralston
.00 +/- .010"	CHECKED ZR
.000 +/- .005"	APPROVED ZR
ANGLES +/- 1/4°	

COLOR:	GREY WHITE	SHEET	1 OF 3
PAINT #:	RAL 9002	MASS	N/A
REVISION #:	2	PART #	W-IMP3-250-406544
SCALE:	1/20		




SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Frame\W-IMP3-250-406544.dwg					
			CUSTOMER: MILLER WELDMASTER		
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR: GREY WHITE	SHEET 2 OF 3	
FRACTION +/- 1/16"	DRAWN	zralston	5/10/2018	PAINT #: RAL 9002	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/10/2018	REVISION #: 2	PART #
.000 +/- .005"	APPROVED	ZR	5/10/2018	SCALE: 1/6	W-IMP3-250-406544
ANGLES +/- 1/4°					

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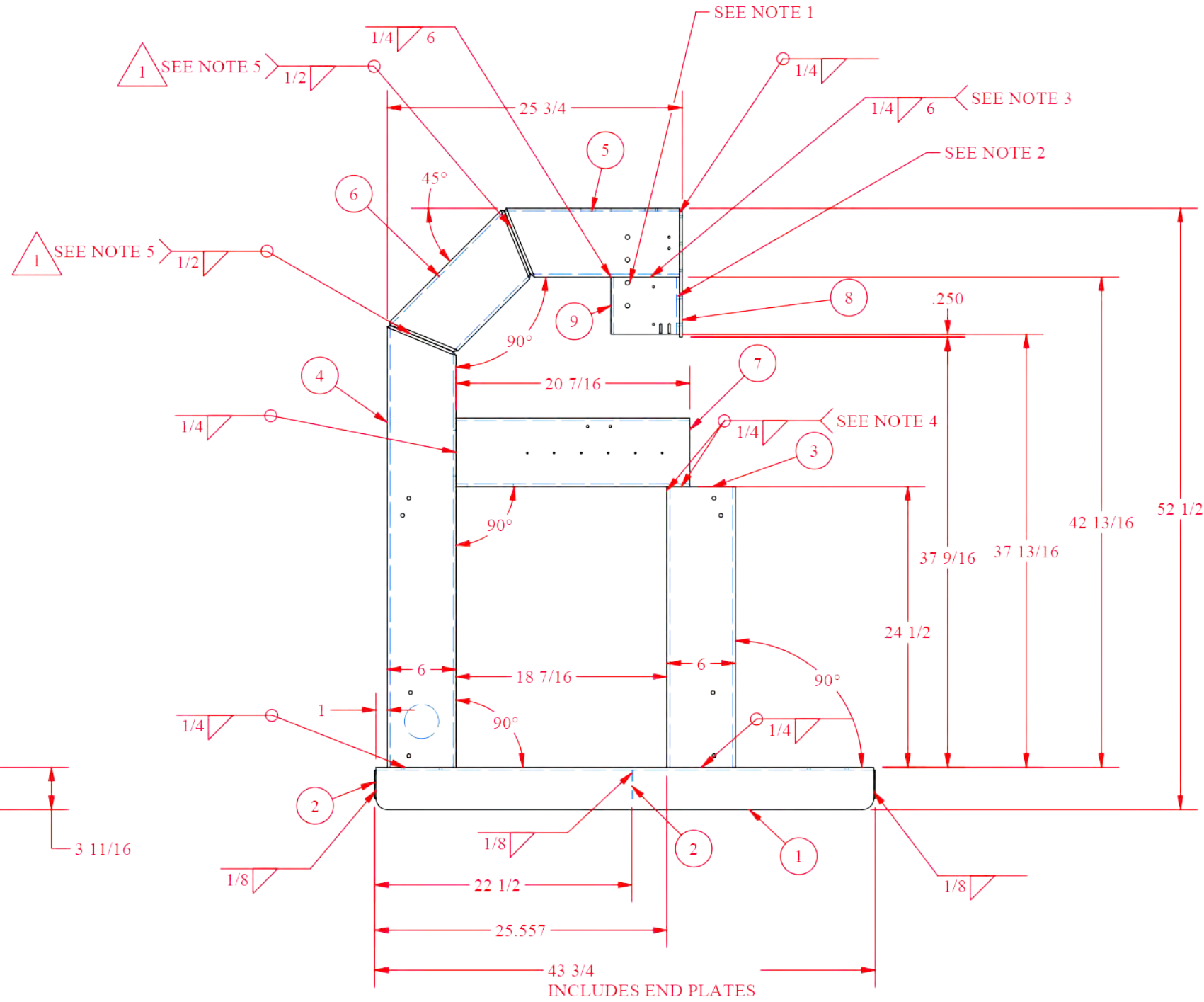


H G F E D C B A

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Frame\W-IMP3-250-406544.dwg					
 <p>ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011</p>			CUSTOMER: MILLER WELDMASTER		
			DESCRIPTION: MAIN FRAME 3.5M, WELDED, COMPLETE		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: GREY WHITE	SHEET 3 OF 3
FRACTION +/- 1/16"	DRAWN	zralston	5/10/2018	PAINT #: RAL 9002	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/10/2018	REVISION #: 2	PART #
.000 +/- .005"	APPROVED	ZR	5/10/2018	SCALE: 1/20	W-IMP3-250-406544
ANGLES +/- 1/4°					

ITEM	ITEM QTY	PART NUMBER	STOCK NUMBER	TITLE	COMMENTS
1	1	P-IMP3-250-404332	160138	FORMED BASE, END FRAME, IMPULSE FRAME WELDED	
2	3	P-IMP3-250-404334	110021	BASE CAP & GUSSET, END FRAME, IMPULSE FRAME WELDED	11 GA.
3	1	P-IMP3-250-404312	160302	VERTICAL TUBE, END FRAME	SQ. CUT
4	1	P-IMP3-250-402902	160302	BACK VERTICAL POST, END FRAME, IMPULSE FRAME WELDED	22 1/2 DEG CUT O.E.
5	1	P-IMP3-250-402898	160302	TOP TUBE, END FRAME	22 1/2 DEG CUT O.E.
6	1	P-IMP3-250-404333	160302	MIDDLE VERTICAL POST, END FRAME, IMPULSE FRAME WELDED	22 1/2 DEG CUT B.E.
7	1	P-IMP3-250-404160	160302	HORIZONTAL TUBE, END FRAME, IMPULSE	SQ. CUT
8	1	P-IMP3-250-402889	110245	CASSETTE AND RAIL PLATE, END FRAME	
9	1	P-IMP3-240-404055	160302	CASSETTE RAIL AND GEAR RACK EXTENSION, END FRAME	

TWO NEEDED



NOTE:

1. ENSURE 4 HOLES ARE IN A STRAIGHT VERTICAL LINE
2. ENSURE CLEARANCE HOLES ON ITEM 9 LINE UP WITH TAPPED HOLES ON ITEM 8
3. NEAR AND FAR SIDE, FILL EXISTING GAP WITH WELD, GRIND FLUSH WITH SURFACE
4. FILLET WELD 3 OUTSIDE EDGES, LEAVE CLEARANCE FOR BEAM TO SIT FLAT ON BOTH FACES OF ITEM 3 AND 7.
5. GRIND WELD SMOOTH ON 3 OUTSIDE EDGES. DO NOT GRIND WELD ON UNDERSIDE OF ITEM 6.

SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram\W-IMP3-250-402888.dwg

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: END FRAME, IMPULSE WELDED

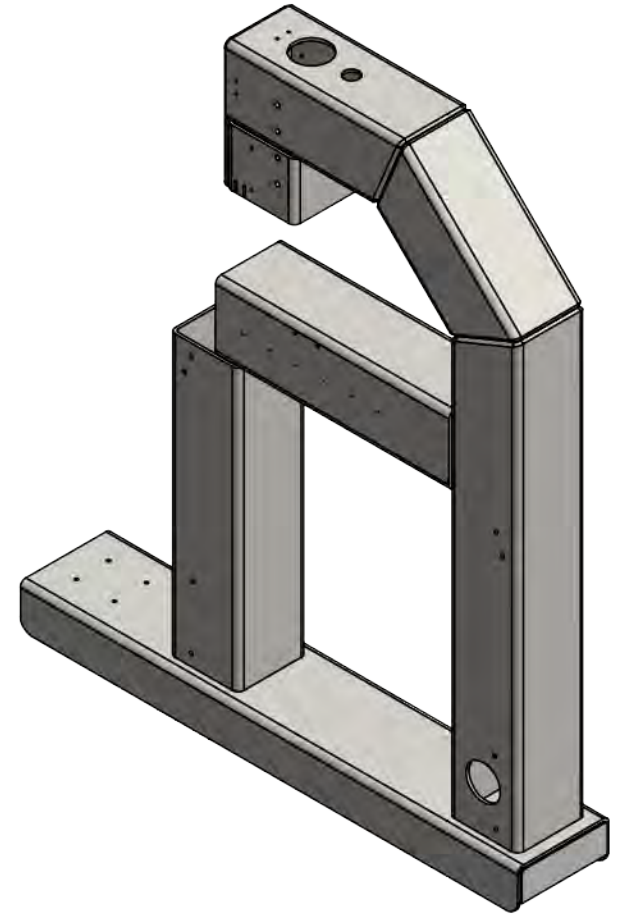
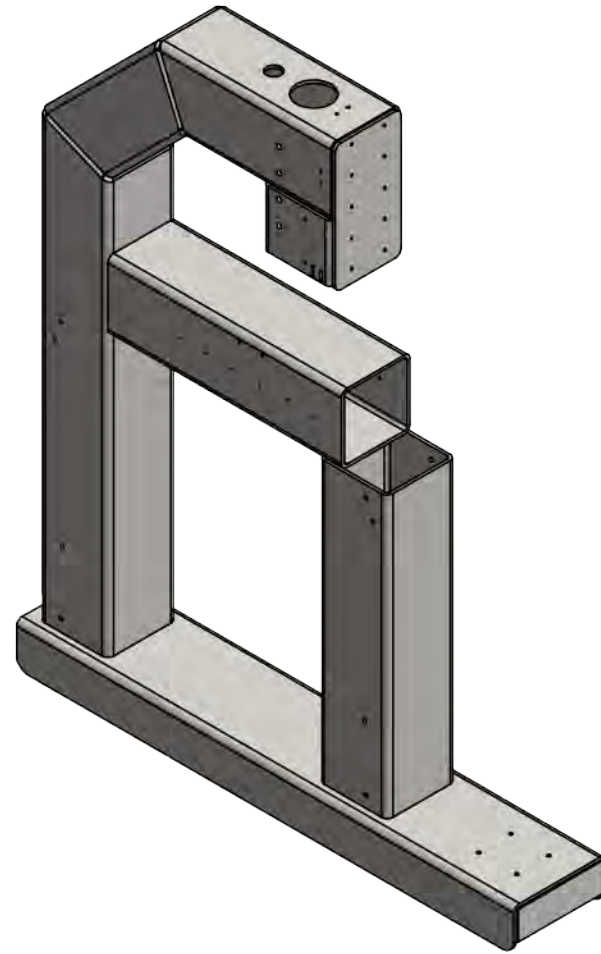
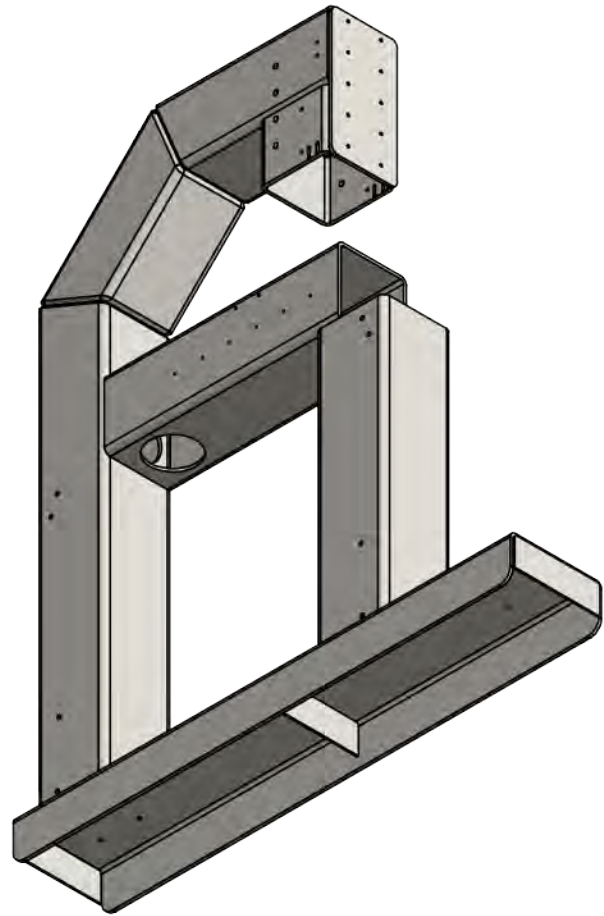
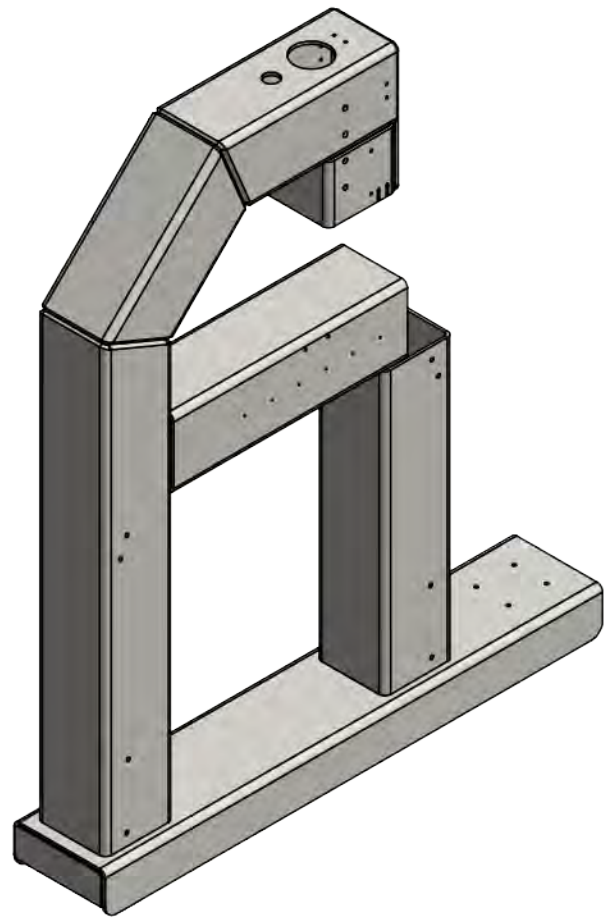
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TOLERANCE ± UNLESS NOTED	DRAWN	BY	DATE	COLOR: NONE	SHEET 1 OF 2
FRACTION 1/16	CHECKED	MTH	6/24/2016	REVISION #: 1	MASS N/A
DECIMAL .031	APPROVED	ZR	5/10/2018	BIN LOCATION: N.S.	PART #
ANGULAR 1/2°		ZR	5/10/2018	SCALE: 1:12	W-IMP3-250-402888

REV	DATE	APPROVED	DESCRIPTION
1	8/15/2018	ZR	ADDED CHAMFERS TO ITEM 4, 5, AND 6 FOR 1/2" WELDS. GRIND FLUSH WITH SURFACE PER NOTE 5.

REVISION HISTORY

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SAVED LOCATION:
 C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram\ W-IMP3-250-402888.dwg



CUSTOMER: MILLER WELDMASTER

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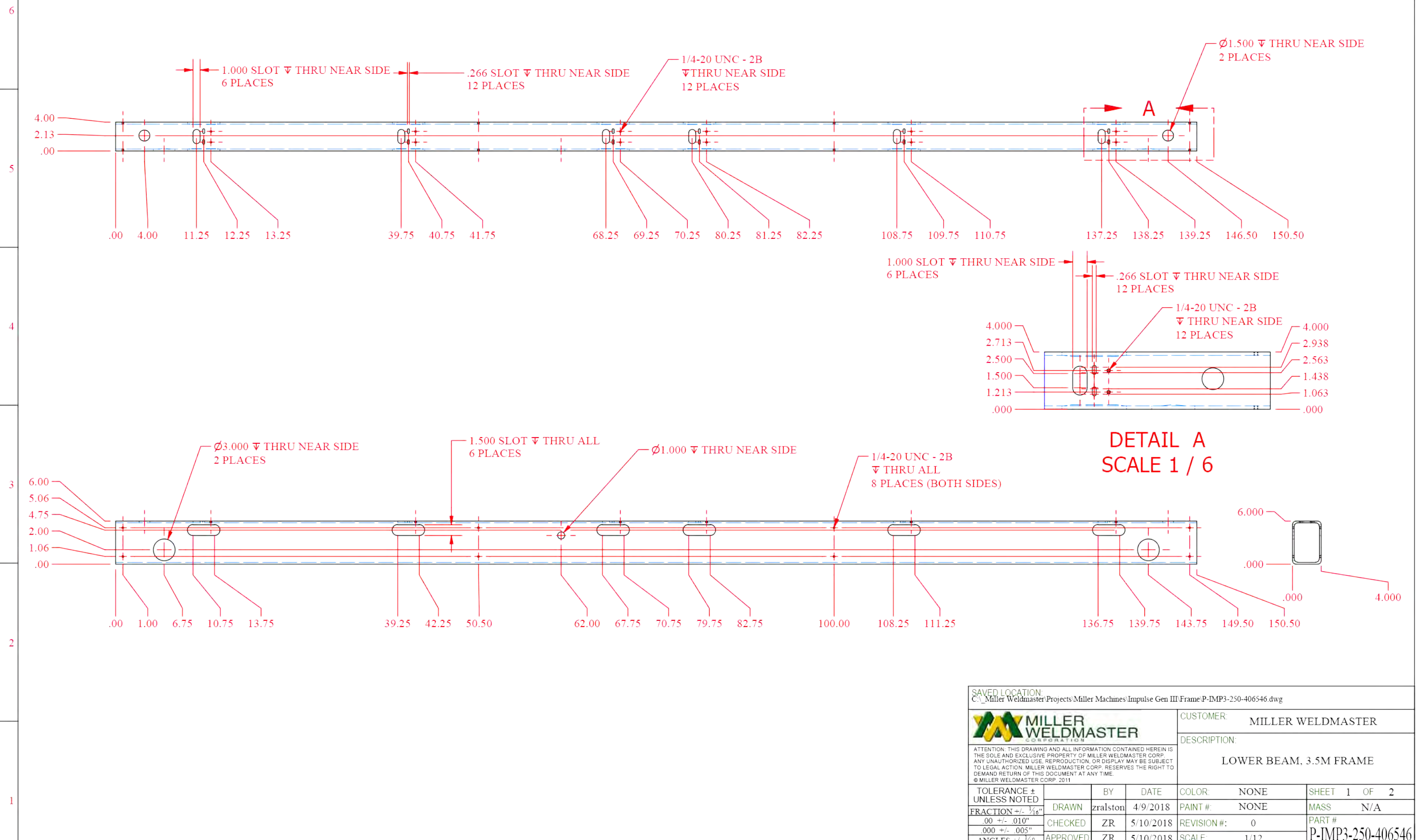
DESCRIPTION:
 END FRAME, IMPULSE WELDED

TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 2
FRACTION 1/16	DRAWN	MTH	6/24/2016	REVISION #: 1	MASS N/A
DECIMAL .031	CHECKED	ZR	5/10/2018	BIN LOCATION: N.S.	PART #
ANGULAR 1/2°	APPROVED	ZR	5/10/2018	SCALE: 1:12	W-IMP3-250-402888

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ITEM	ITEM QTY	STOCK NUMBER	DESCRIPTION
1	1	160268	RECT. ST. TUBE 6.000 in X 4.000 in X 0.250 in WALL X 150.500 in LG.



SAVED LOCATION:
C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Frame\P-IMP3-250-406546.dwg

MILLER WELDMASTER CORPORATION


CUSTOMER: MILLER WELDMASTER

DESCRIPTION: LOWER BEAM, 3.5M FRAME

ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME.
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TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR:	NONE	SHEET 1 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	4/9/2018	PAINT #:	NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/10/2018	REVISION #:	0	PART #
.000 +/- .005"	APPROVED	ZR	5/10/2018	SCALE:	1/12	P-IMP3-250-406546
ANGLES +/- 1/4°						

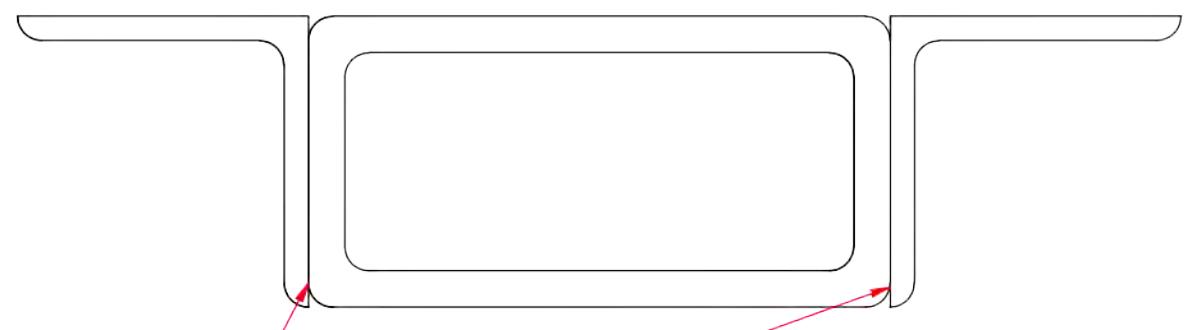
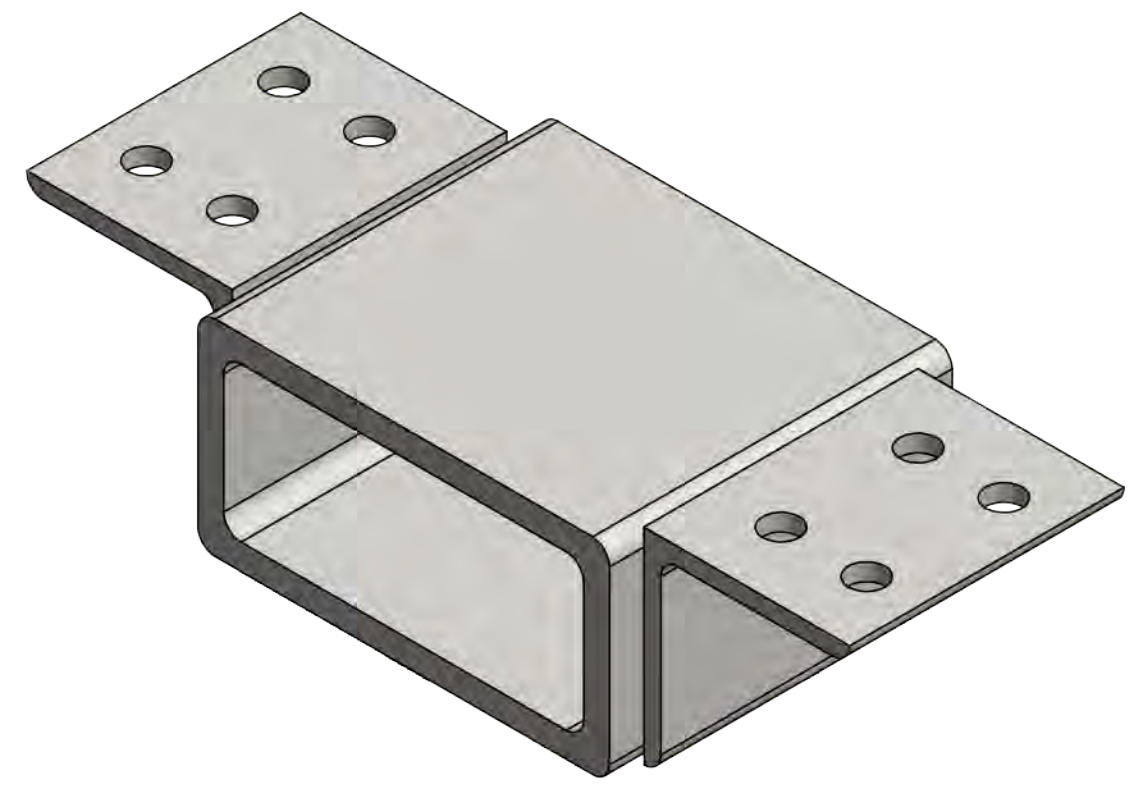
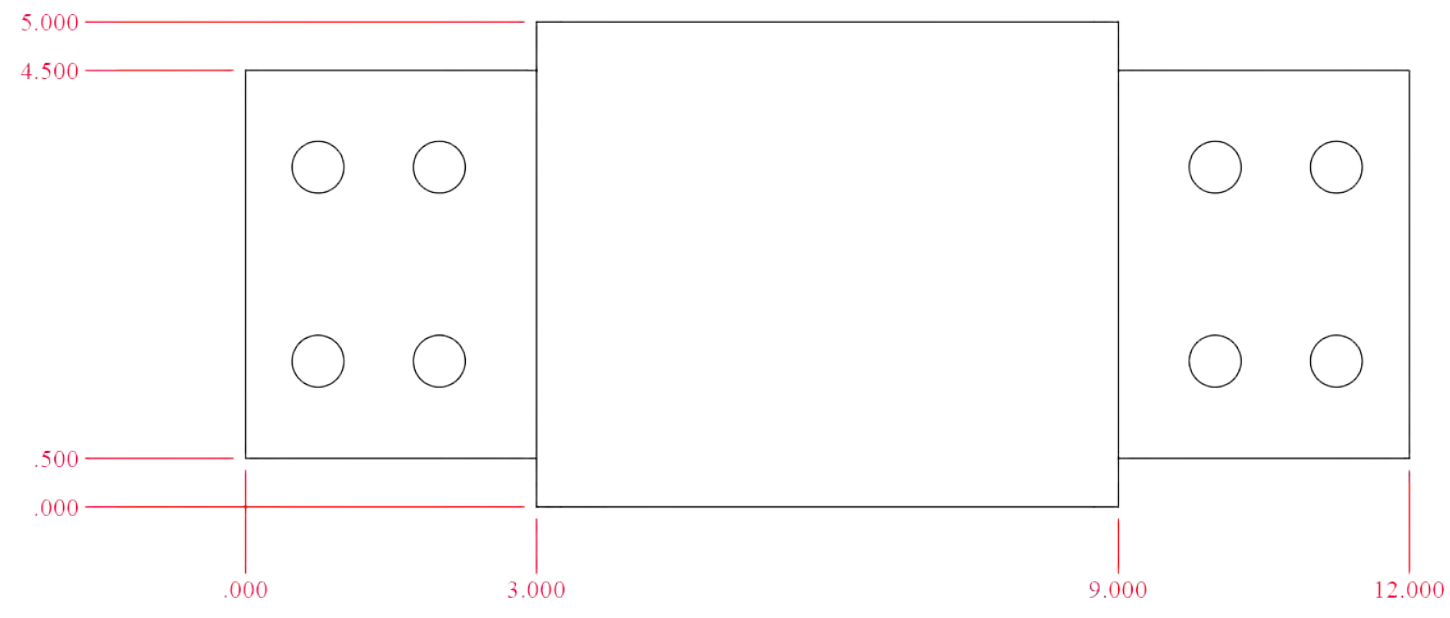


SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Frame\P-IMP3-250-406546.dwg					
				CUSTOMER: MILLER WELDMASTER	
ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011				DESCRIPTION: LOWER BEAM, 3.5M FRAME	
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: NONE	SHEET 2 OF 2
FRACTION +/- 1/16"	DRAWN	zralston	4/9/2018	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	5/10/2018	REVISION #: 0	PART #
.000 +/- .005"	APPROVED	ZR	5/10/2018	SCALE: 1/12	P-IMP3-250-406546
ANGLES +/- 1/4°					

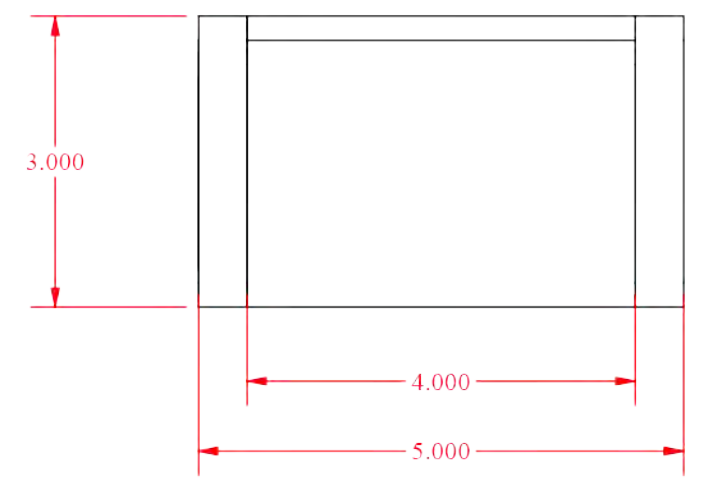
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ITEM	ITEM QTY	STOCK NUMBER	PART NUMBER	DESCRIPTION	TITLE
1	1	NS	P-IMP3-250-404325	RECT. ST. TUBE 3.000 in X 6.000 in X 0.375 in WALL X 5.000 in LG.	FORK LIFT TUBE
2	2	113037	P-IMP3-250-407270	ST. ANGLE 0.250 in X 3.000 in X 3.000 in X 4.000 in LG.	FORK POCKET WELDMENT ANGLE



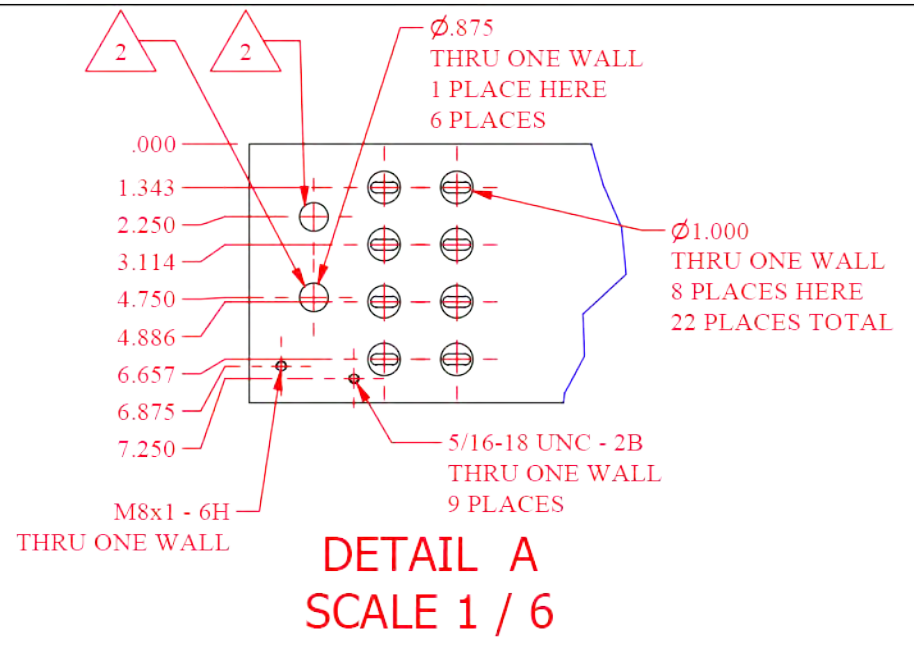
WELD 3 EDGES $\frac{1}{4}$ 3



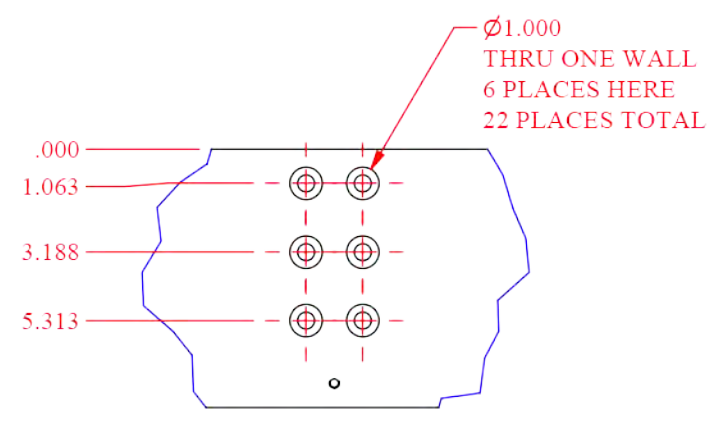
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			CUSTOMER: MILLER WELDMASTER		
ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011			DESCRIPTION: FORK POCKET WELDMENT		
TOLERANCE ± UNLESS NOTED		BY	DATE	COLOR: GRAY WHITE	SHEET 1 OF 1
FRACTION +/- 1/16"	DRAWN	zralston	2/1/2019	PAINT #: RAL 9002	MASS N/A
.00 +/- .010"	CHECKED	ZR	2/1/2019	REVISION #:	PART #
.000 +/- .005"	APPROVED	ZR	2/1/2019	SCALE: 1 / 2	W-IMP3-250-407269
ANGLES +/- 1/4°					

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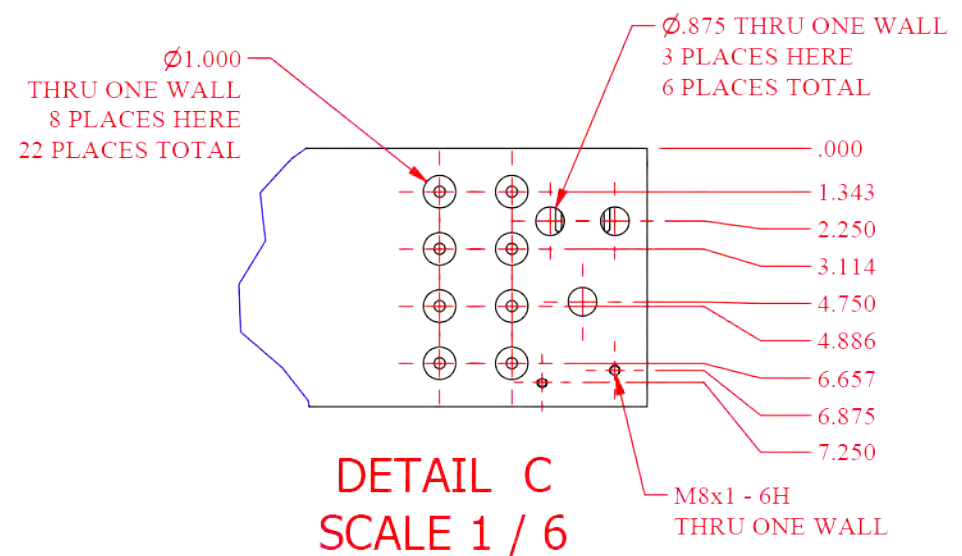
STOCK NUMBER	DESCRIPTION
P-STEL-520-402441	RECT. ST. TUBE 8.000 in X 3.000 in X 0.250 in WALL X 150.500 in LG.



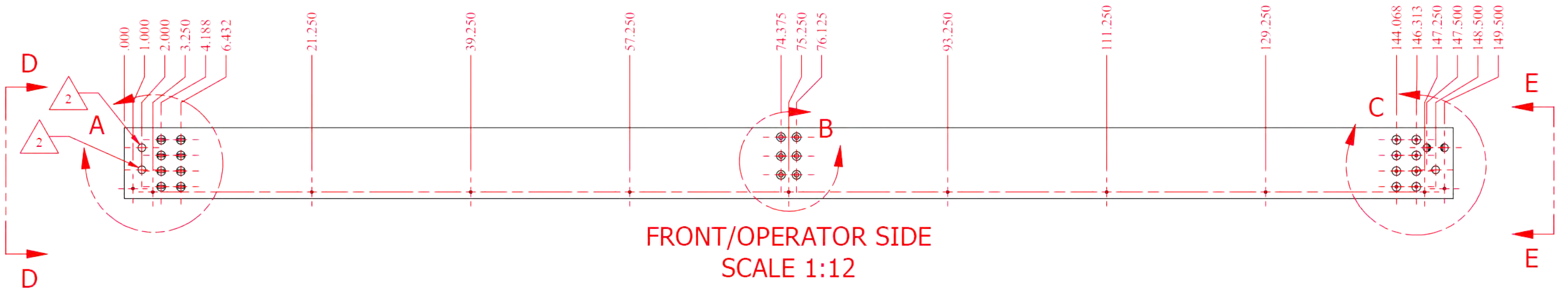
DETAIL A
SCALE 1 / 6



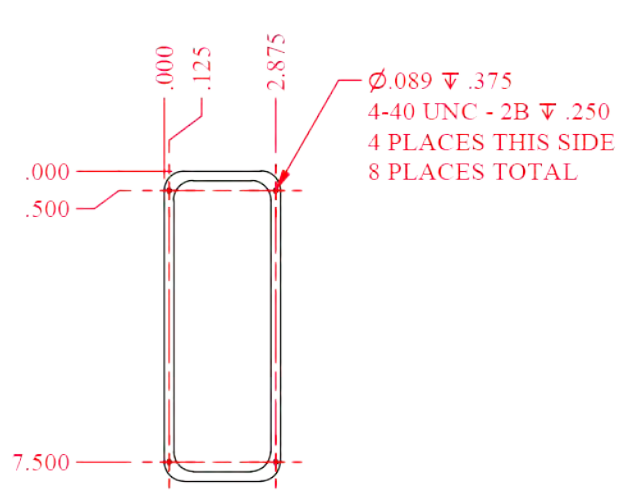
DETAIL B
SCALE 1 / 6



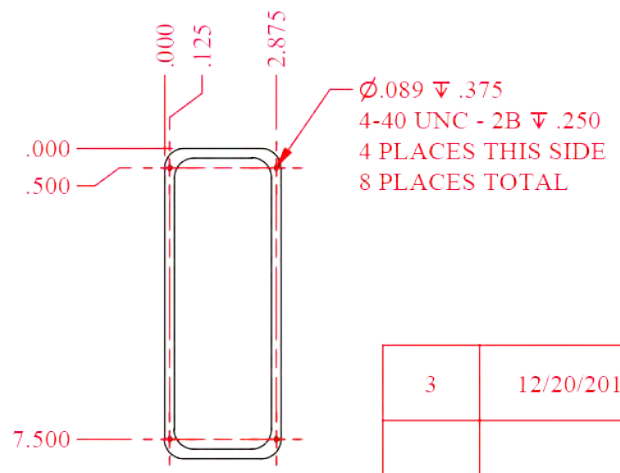
DETAIL C
SCALE 1 / 6



FRONT/OPERATOR SIDE
SCALE 1:12



VIEW D-D
SCALE 1:5



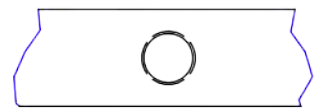
VIEW E-E
SCALE 1:5

REV	DATE	APPROVED	DESCRIPTION
3	12/20/2019	JJS	ADDED AND REMOVED HOLES TO BETTER FIT PUSH BAR AND UPPER FOLD ASSEMBLY.
2	4/30/2019	ZR	CHANGED TO CONDUIT FITTINGS, WAS CABLE CARRIER. ADDED HOLE FOR SECOND PAUSE BUTTON. ADDED ELECTRICAL HOLES FOR LASERS, STEPPER MOTOR, AND AC MOTOR.
1	3/12/2019	MTH	ADDED LOCATION DIMENSIONS

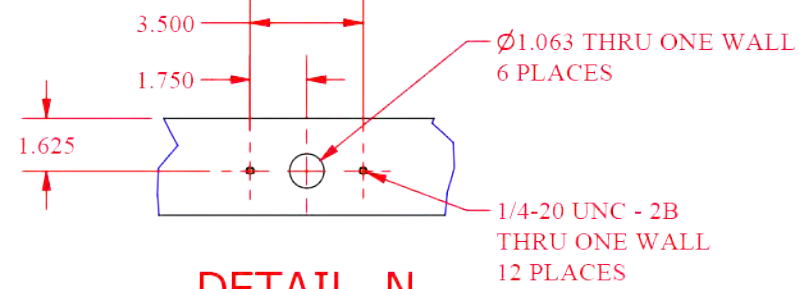
REVISION HISTORY

				CUSTOMER: MILLER WELDMASTER DESCRIPTION: UPPER WELD BAR, 3.5M	
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DRAWN zralston	BY zralston	DATE 1/11/2019	COLOR: NONE PAINT #: NONE REVISION #: 3 SCALE: 1:12	SHEET 1 OF 4 MASS N/A PART # P-IMP3-250-406540	

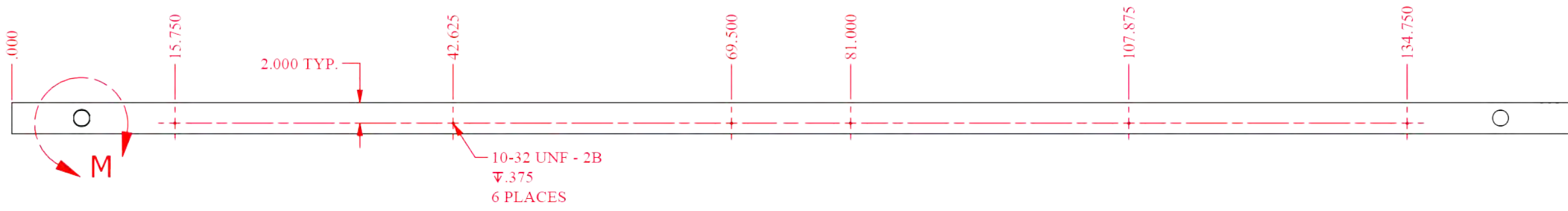
H G F E D C B A



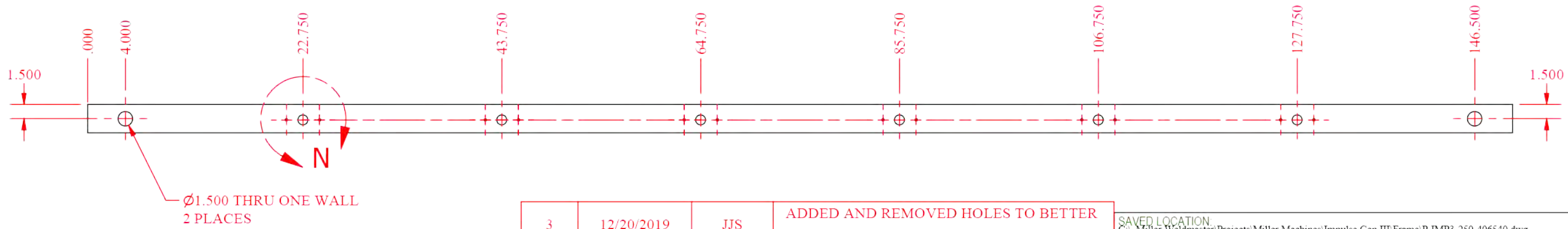
DETAIL M
SCALE 1 / 6



DETAIL N
SCALE 1 / 6



FRONT/OPERATOR SIDE
SCALE 1:12



REV	DATE	APPROVED	DESCRIPTION
3	12/20/2019	JJS	ADDED AND REMOVED HOLES TO BETTER FIT PUSH BAR AND UPPER FOLD ASSEMBLY.
2	4/30/2019	ZR	CHANGED TO CONDUIT FITTINGS, WAS CABLE CARRIER. ADDED HOLE FOR SECOND PAUSE BUTTON. ADDED ELECTRICAL HOLES FOR LASERS, STEPPER MOTOR, AND AC MOTOR.
1	3/12/2019	MTH	ADDED LOCATION DIMENSIONS

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram P-IMP3-250-406540.dwg

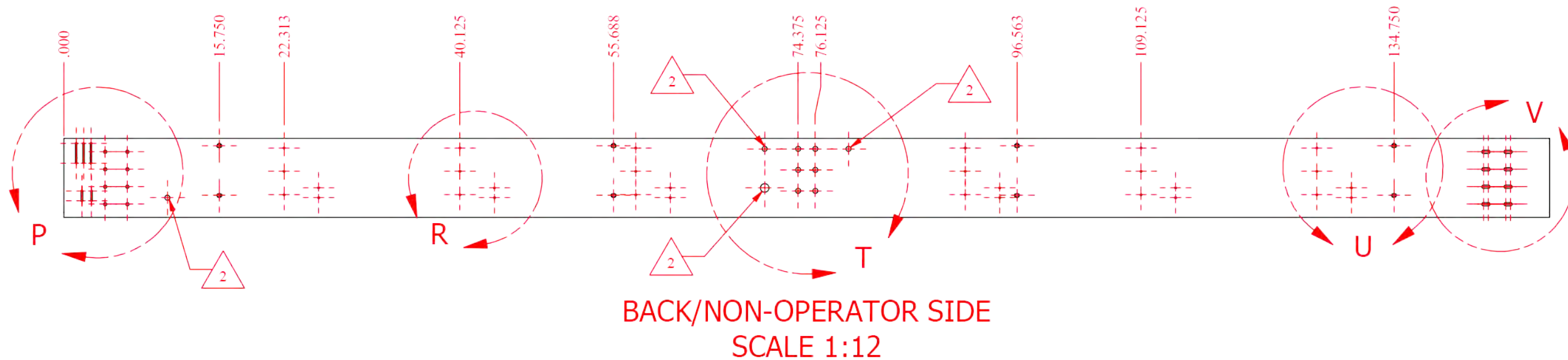
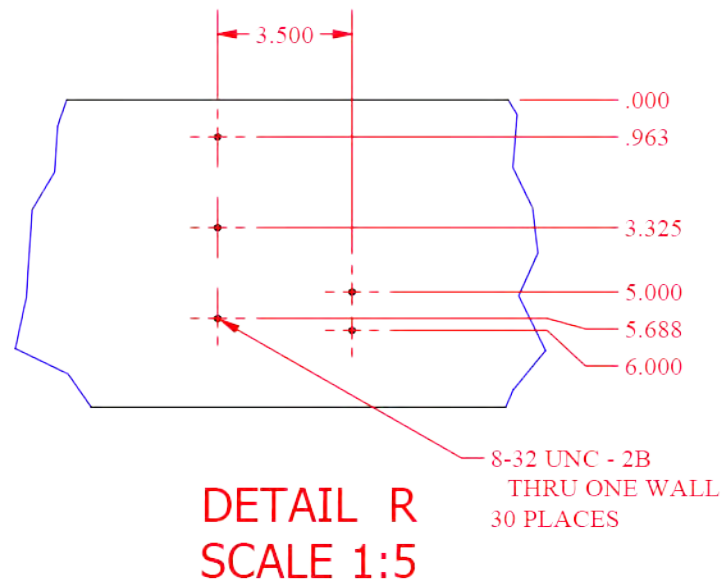
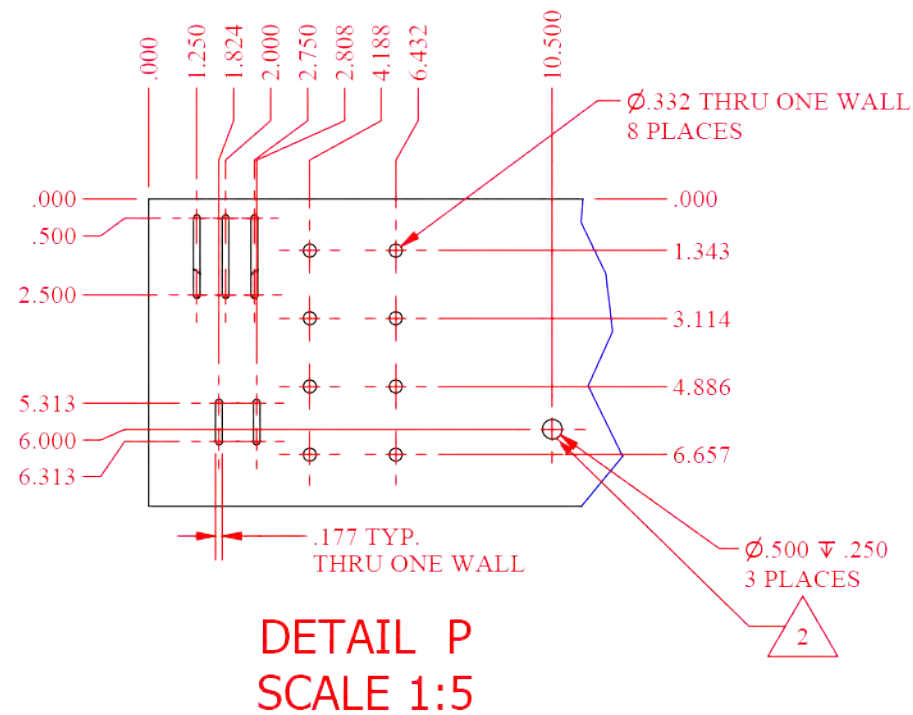
MILLER WELDMASTER CORPORATION

CUSTOMER: MILLER WELDMASTER

DESCRIPTION: UPPER WELD BAR, 3.5M

TOLERANCE \pm UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 2 OF 4
FRACTION \pm $\frac{1}{16}$ "	DRAWN	zralston	1/11/2019	PAINT #:	NONE
.00 \pm $\frac{.010$ "	CHECKED			REVISION #:	3
.000 \pm $\frac{.005$ "	APPROVED			SCALE:	1:12
ANGLES \pm $\frac{1}{4}^\circ$					PART #

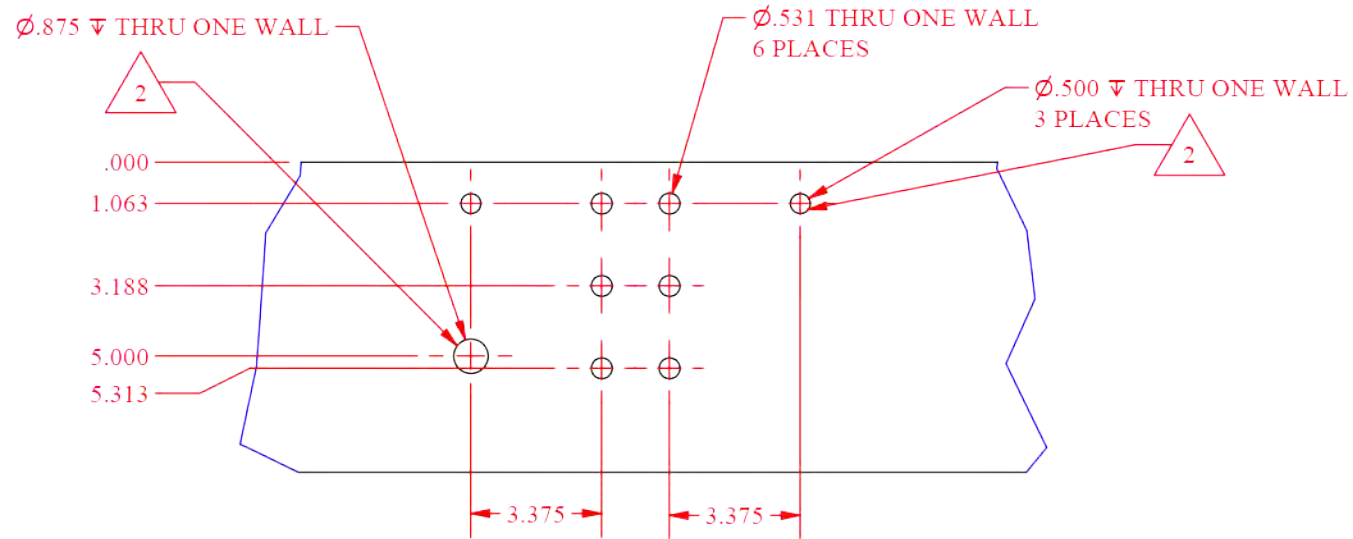
P-IMP3-250-406540



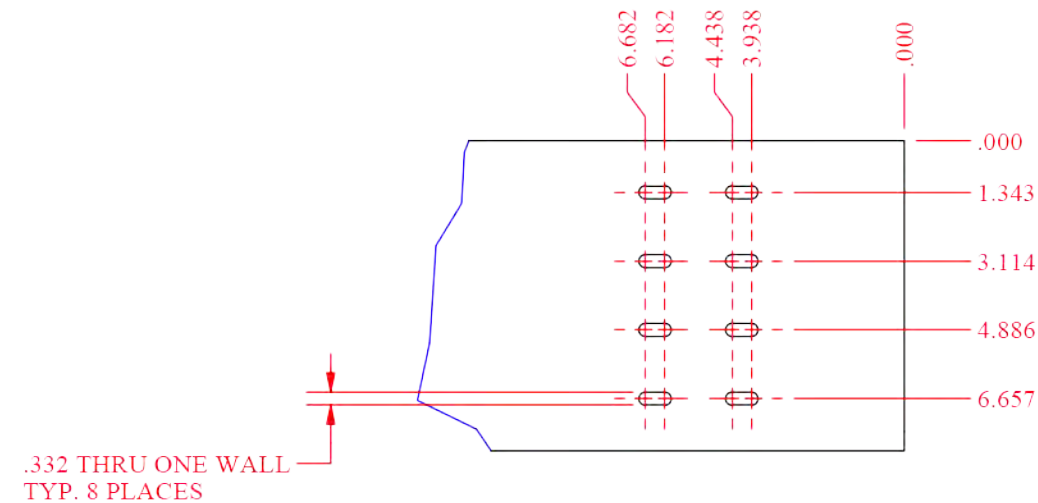
REV	DATE	APPROVED	DESCRIPTION
3	12/20/2019	JJS	ADDED AND REMOVED HOLES TO BETTER FIT PUSH BAR AND UPPER FOLD ASSEMBLY.
2	4/30/2019	ZR	CHANGED TO CONDUIT FITTINGS, WAS CABLE CARRIER. ADDED HOLE FOR SECOND PAUSE BUTTON. ADDED ELECTRICAL HOLES FOR LASERS, STEPPER MOTOR, AND AC MOTOR.
1	3/12/2019	MTH	ADDED LOCATION DIMENSIONS

REVISION HISTORY

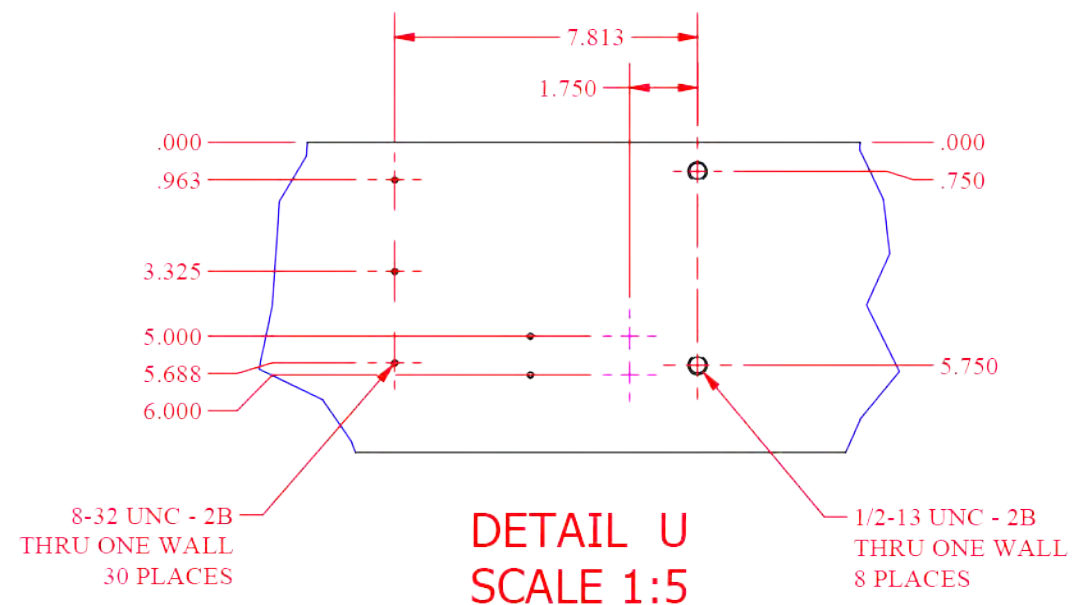
SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram P-IMP3-250-406540.dwg					
				CUSTOMER: MILLER WELDMASTER	
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TOLERANCE ± UNLESS NOTED		DRAWN	BY	DATE	COLOR: NONE
FRACTION +/- 1/16"		zralston	1/11/2019	PAINT #: NONE	SHEET 3 OF 4
.00 +/- .010"		CHECKED	REVISION #: 3	MASS N/A	
.000 +/- .005"		APPROVED	SCALE: 1:12	PART # P-IMP3-250-406540	
ANGLES +/- 1/4°					



DETAIL T
SCALE 1:5



DETAIL V
SCALE 1:5

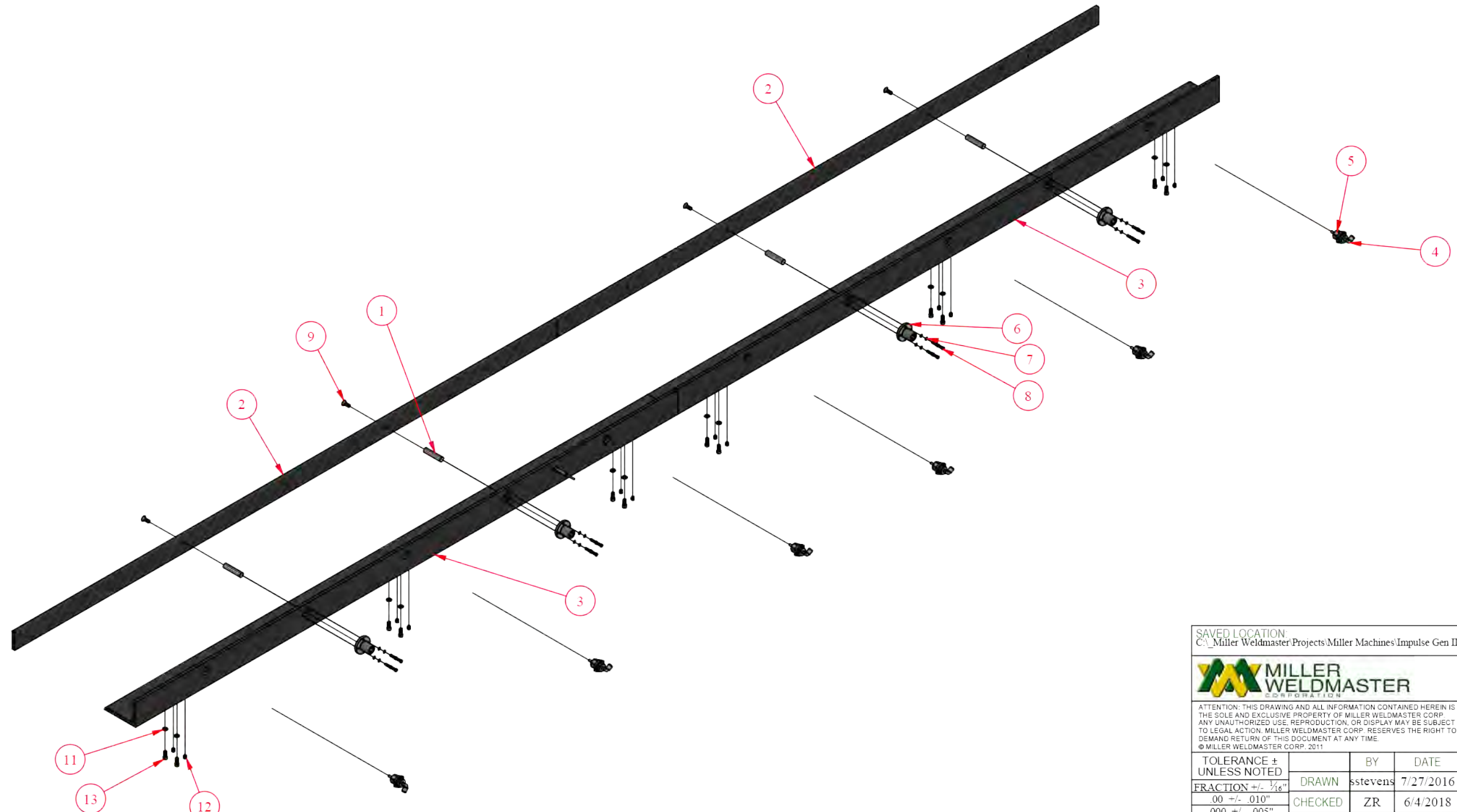


DETAIL U
SCALE 1:5

REV	DATE	APPROVED	DESCRIPTION
3	12/20/2019	JJS	ADDED AND REMOVED HOLES TO BETTER FIT PUSH BAR AND UPPER FOLD ASSEMBLY.
2	4/30/2019	ZR	CHANGED TO CONDUIT FITTINGS, WAS CABLE CARRIER. ADDED HOLE FOR SECOND PAUSE BUTTON. ADDED ELECTRICAL HOLES FOR LASERS, STEPPER MOTOR, AND AC MOTOR.
1	3/12/2019	MTH	ADDED LOCATION DIMENSIONS

SAVED LOCATION: C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fram P-IMP3-250-406540.dwg					
				CUSTOMER: MILLER WELDMASTER	
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TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 4 OF 4
FRACTION +/- 1/16"	DRAWN	zralston	1/11/2019	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED			REVISION #: 3	PART #
.000 +/- .005"	APPROVED			SCALE: 1:5	P-IMP3-250-406540
ANGLES +/- 1/4°					

ITEM	ITEM QTY	PART NUMBER	TITLE
1	4	P-IMP3-248-406658	FOLD SYSTEM GRIP PLATE LINEAR SUPPORT SHAFTS
2	2	P-IMP3-248-406657	3.5M FOLD SYSTEM GRIP PLATE
3	2	P-IMP3-248-406656	3.5M LOWER WELD BAR MOUNTING ANGLE
4	6	P-IMP3-248-404373	SMC - 1/4" PUSH-IN AIR FITTING ELBOW X M5 MALE THREAD
5	6	P-IMP3-248-404372	SMC - PIN CYLINDER: SINGLE ACTING, SPRING RETURN, 15MM BORE, 10MM STROKE
6	4	P-IMP3-240-403615	FLANGE-MOUNTED LINEAR BALL BEARING FOR 1/2" SHAFT
7	16	FAST	SPLIT LOCK WASHER - 8
8	16	FAST	HSFCHCS - 8-32 UNC - .625 Lg
9	4	FAST	HSFCHCS - 1-4-20 UNC - .75 Lg
10	1	390966	START/STOP SWITCH
11	12	FAST	SPLIT LOCK WASHER - 1-4
12	12	FAST	HSSSCP - 1-4-20 UNC - .375 Lg
13	12	FAST	HSHCS - 1-4-20 UNC - .625 Lg

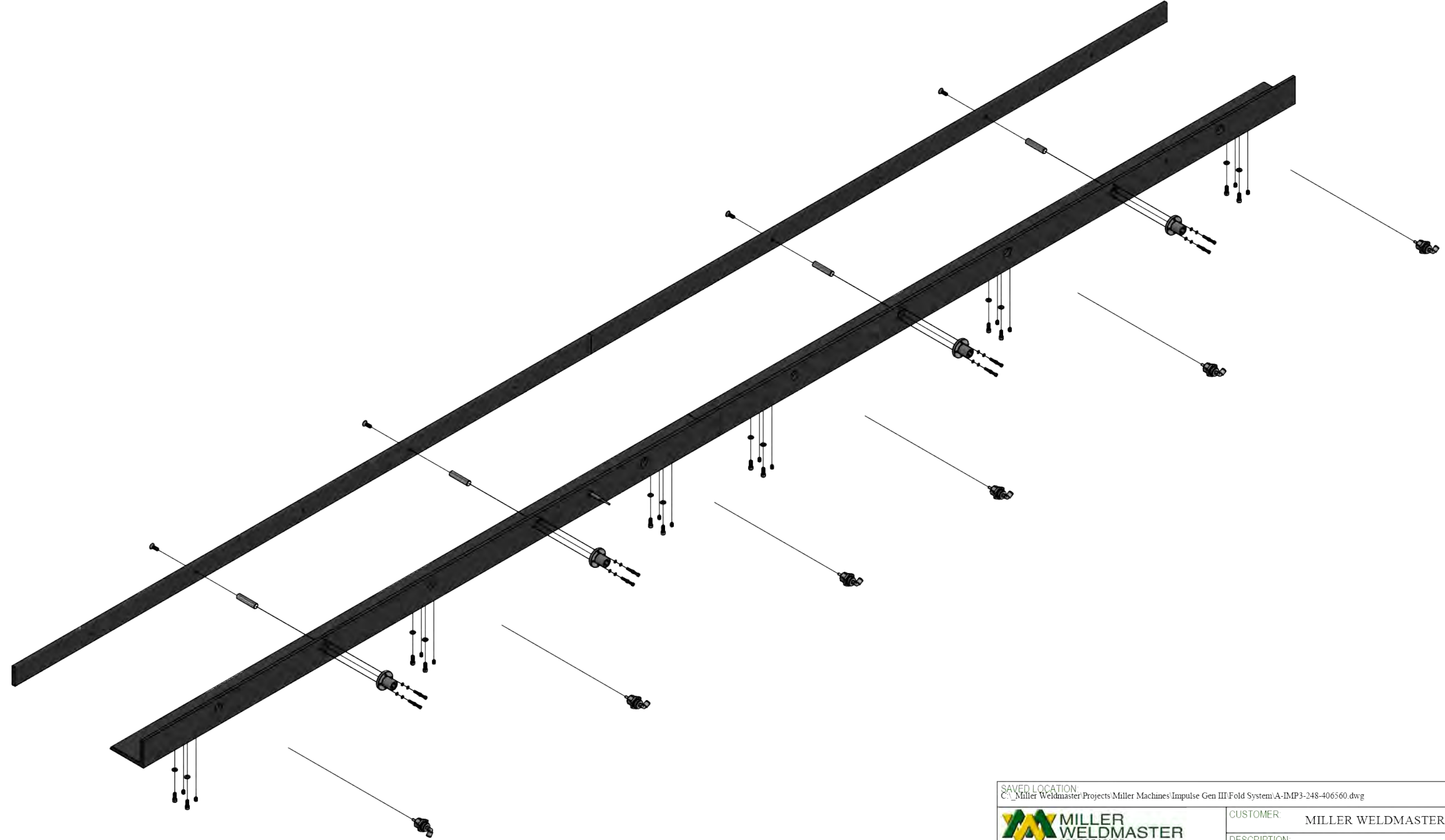


C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fold System\A-IMP3-248-406560.dwg
MILLER WELDMASTER CORPORATION
 CUSTOMER: MILLER WELDMASTER
 DESCRIPTION: GRIPPER FOLD SYSTEM, 3.5 METER
 ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011

TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 1 OF 3
FRACTION +/- 1/16"	DRAWN	stevens	7/27/2016	PAINT #:	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/4/2018	REVISION #:	0
.000 +/- .005"	APPROVED	ZR	6/4/2018	SCALE:	1/10
ANGLES +/- 1/4°					PART # A-IMP3-248-406560

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C:\Miller Weldmaster\Projects\Miller Machines\Impulse Gen III\Fold System\A-IMP3-248-406560.dwg
MILLER WELDMASTER CORPORATION
 CUSTOMER: MILLER WELDMASTER
 DESCRIPTION: GRIPPER FOLD SYSTEM, 3.5 METER
 ATTENTION: THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF MILLER WELDMASTER CORP. ANY UNAUTHORIZED USE, REPRODUCTION, OR DISPLAY MAY BE SUBJECT TO LEGAL ACTION. MILLER WELDMASTER CORP. RESERVES THE RIGHT TO DEMAND RETURN OF THIS DOCUMENT AT ANY TIME. © MILLER WELDMASTER CORP. 2011

TOLERANCE ± UNLESS NOTED	BY	DATE	COLOR:	NONE	SHEET 2 OF 3
FRACTION +/- 1/16"	DRAWN	stevens	7/27/2016	PAINT #: NONE	MASS N/A
.00 +/- .010"	CHECKED	ZR	6/4/2018	REVISION #: 0	PART #
.000 +/- .005"	APPROVED	ZR	6/4/2018	SCALE: 1/8	A-IMP3-248-406560
ANGLES +/- 1/4°					

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