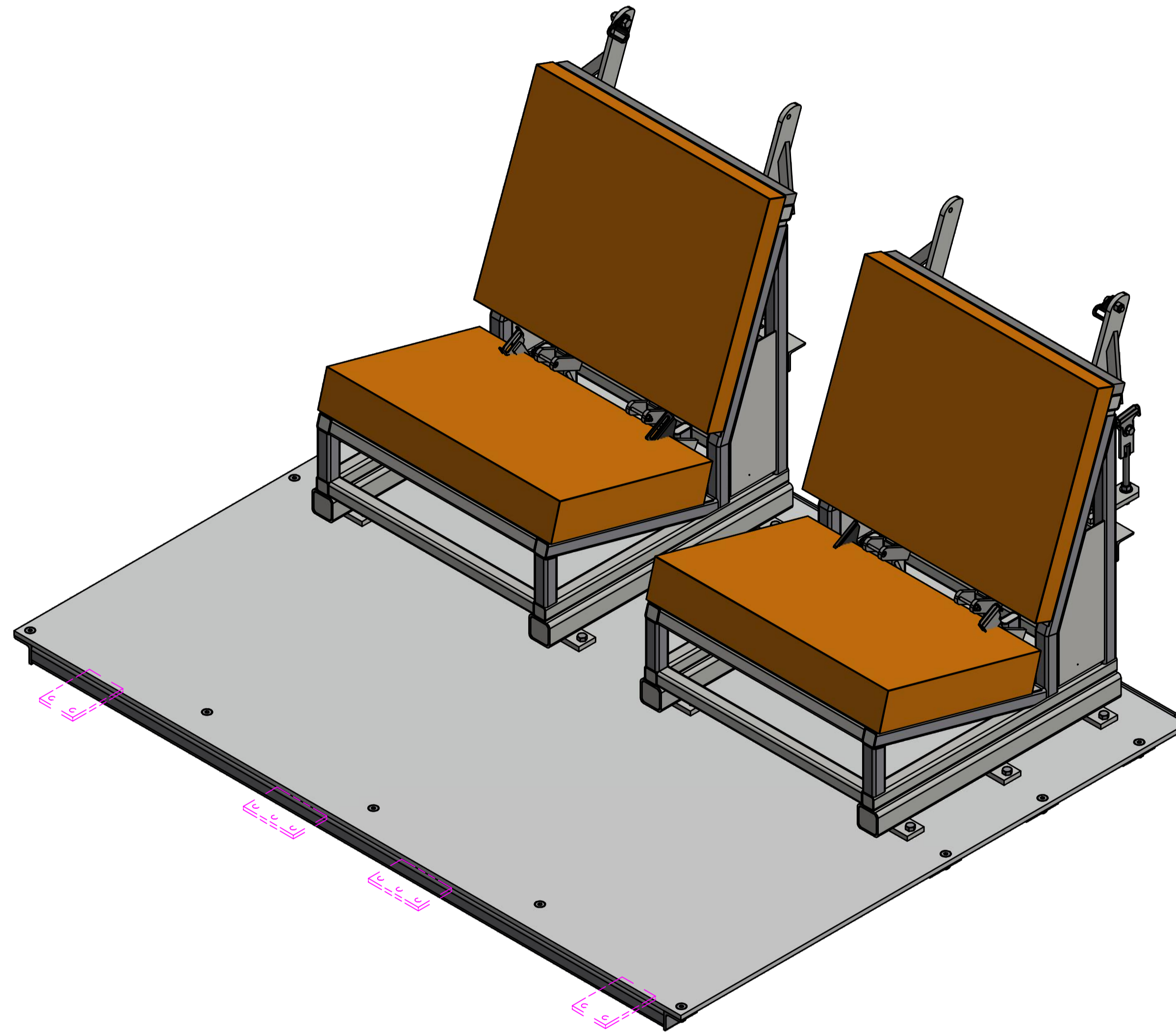
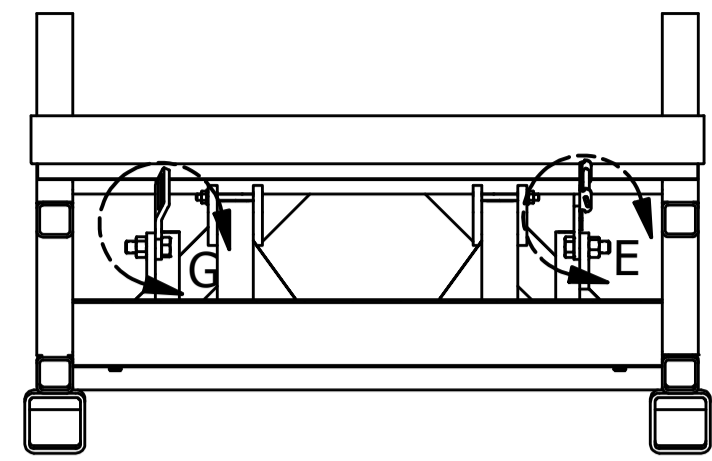
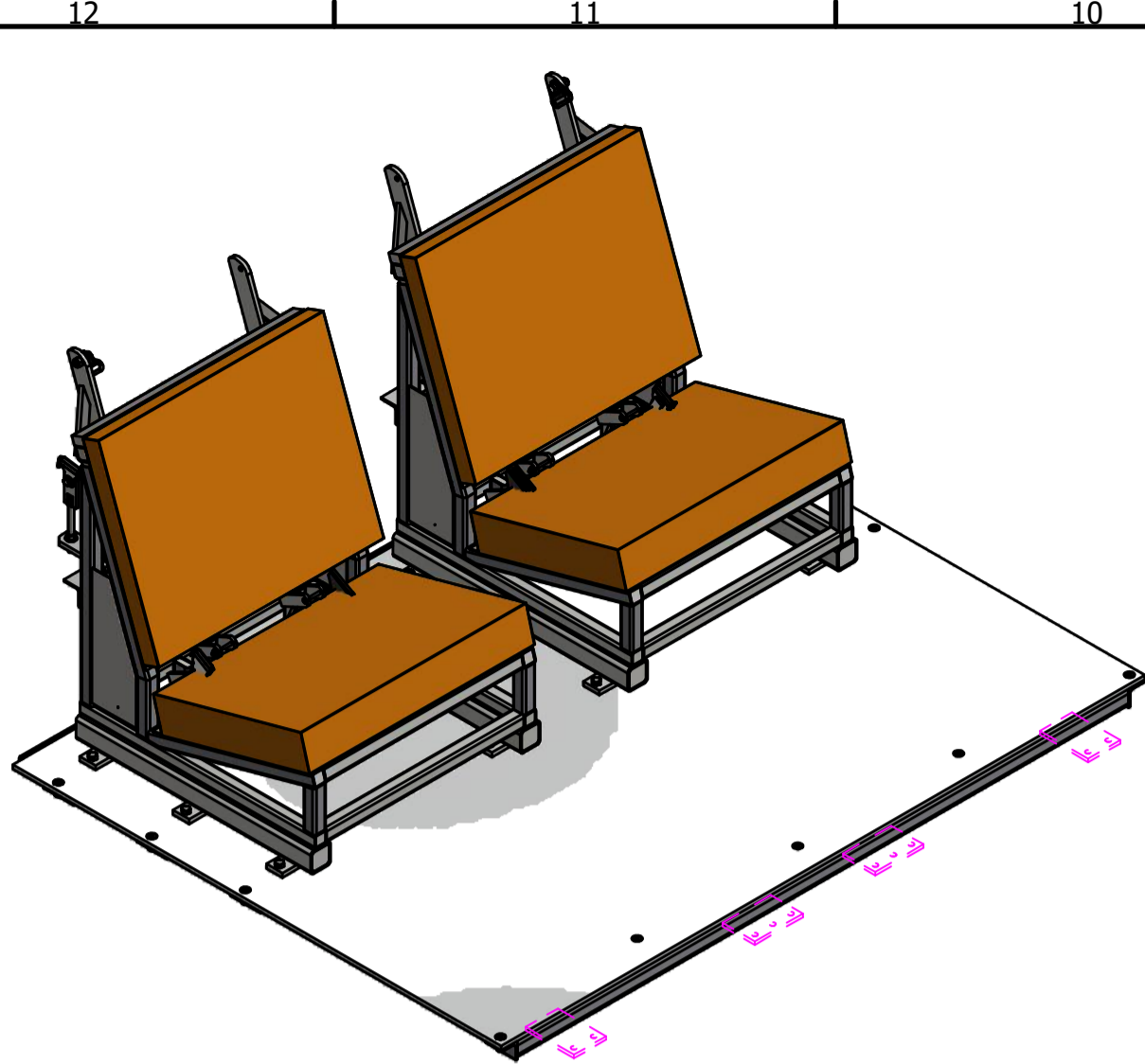


Parts List and Drawings
NHTSA STANDARD SEAT ASSEMBLY; FMVSS No. 213, No. NHTSA-213-2016
CHILD FRONTAL IMPACT SLED



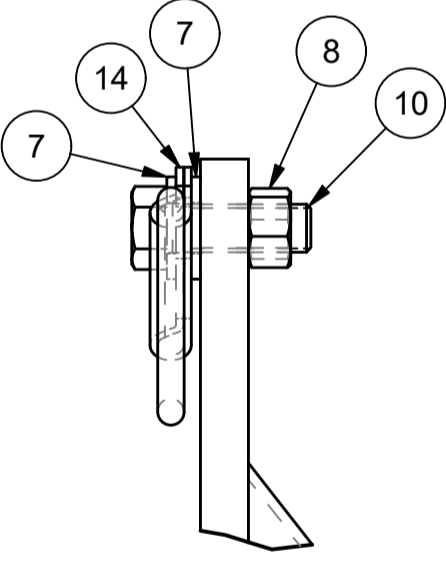
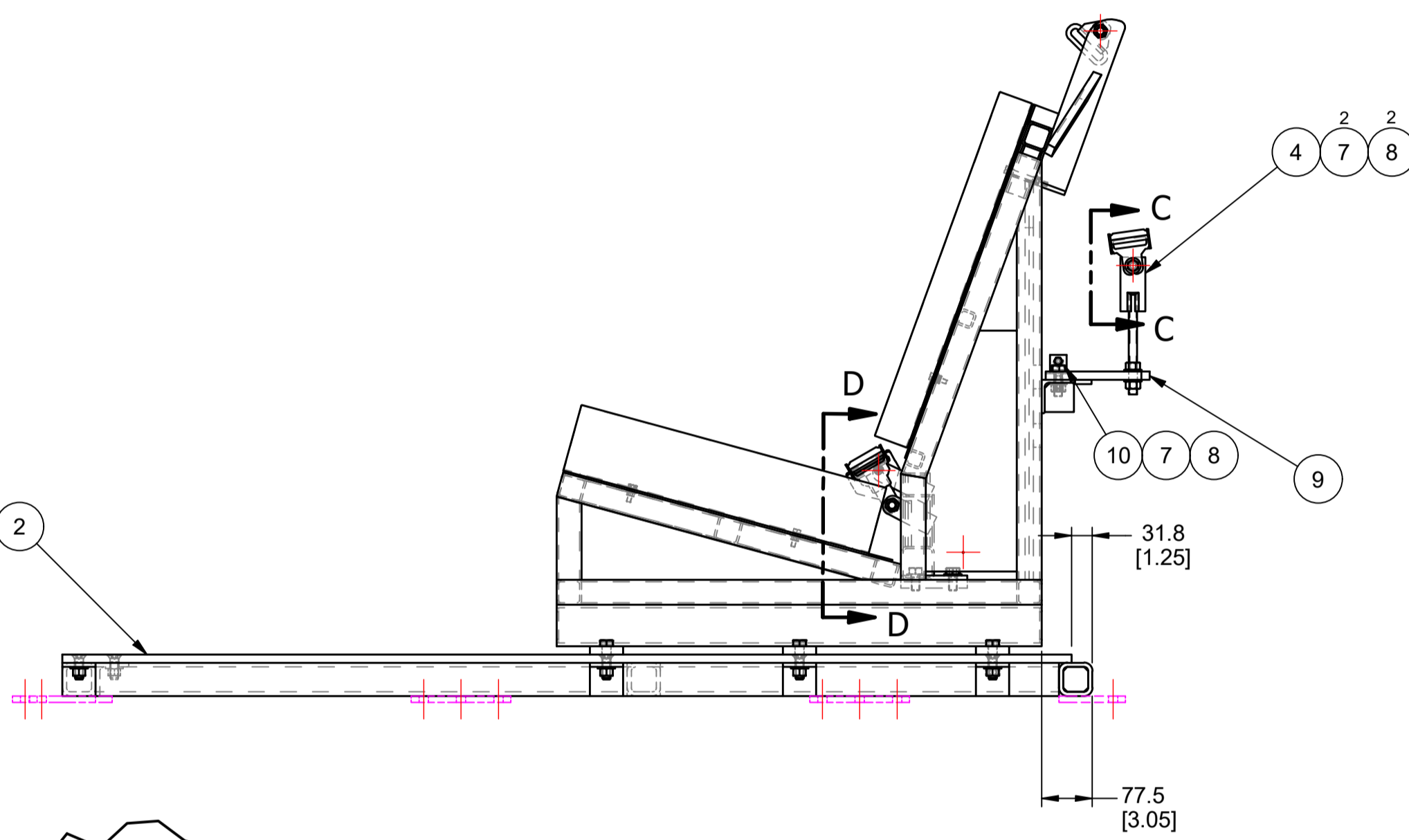
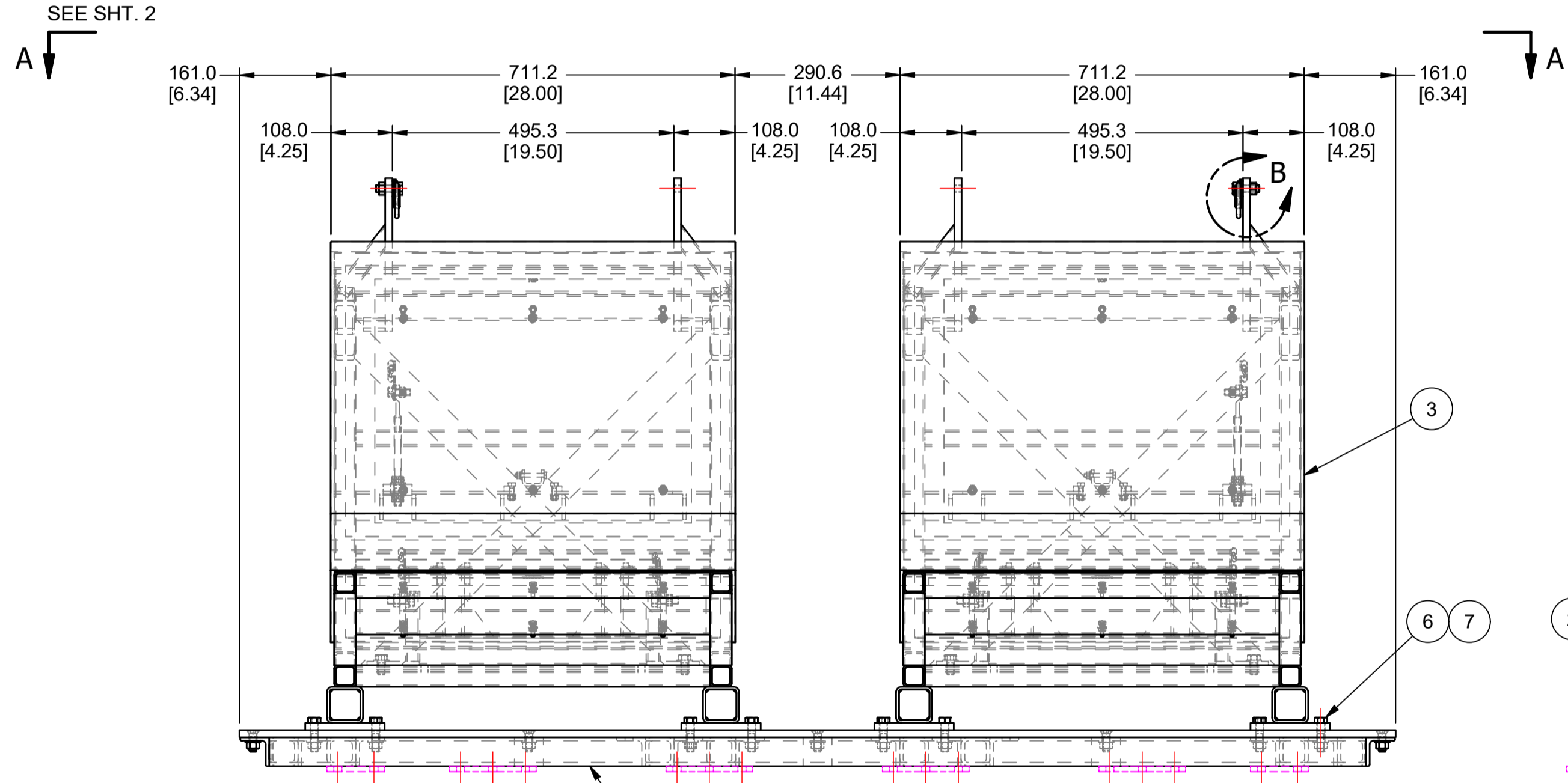
May 2019

VEHICLE RESEARCH and TEST CENTER
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

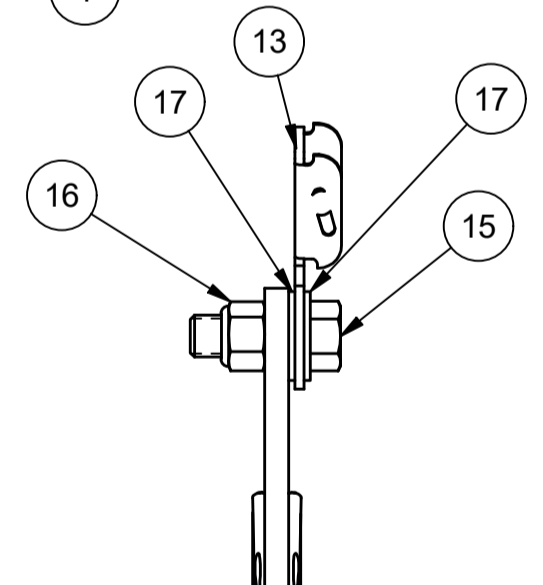


SECTION D-D
SCALE 1/8

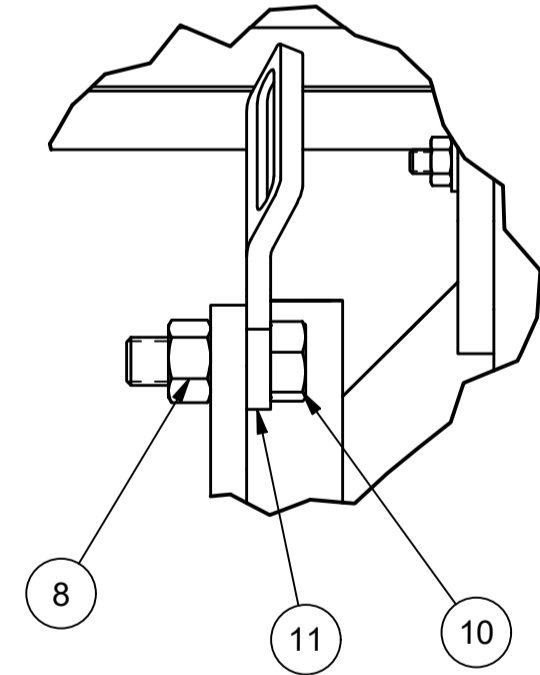
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 329.2 [12.96] WAS 369.2 [14.54], 610.0 [24.02] WAS 602.4 [23.72], AND 44.2 [1.74] WAS 48.1 [1.89]	3/10/2015	DW
	C	REDESIGNED UPPER D-RING MOUNT SHEET 1 DIMENSION 161.0 [6.34] WAS 166.6 [6.56], 290.6 [11.44] WAS 292.1 [11.50], 711.2 [28.00] WAS 698.5 [27.50], 292.1 [11.50] WAS 304.8 [12.00], 108.0 [4.25] WAS 44.2 [1.74], 495.3 [19.50] WAS 610.0 [24.02], 328.6 [12.94] WAS 305.5 [12.03], 727.4 [28.64] WAS 644.8 [25.39], 301.3 [11.86] WAS 329.2 [12.96]; ADDED ITEMS 9 THRU 19; ADDED SECTION B-B AND DETAIL C	7/18/2016	DW
	D	3021-332 WAS 9000695V BOLT, HEX HD1/4-20 x2, ADDED ITEM 19 THRU 22 ANCHORS AND REQ FASTENERS, ADDED ANCHOR VIEWS	11/22/2016	JHC
	F	MOVED TETHER ANCHOR ASSEMBLY - 2921-345 AND RELATED HARDWARE TO BENCH SEAT ASSEMBLY 3021-010	4/5/2018	DW
	G	ADDED NOTE #1; QTY. OF ITEM #7 WAS 53	5/2/2019	DW



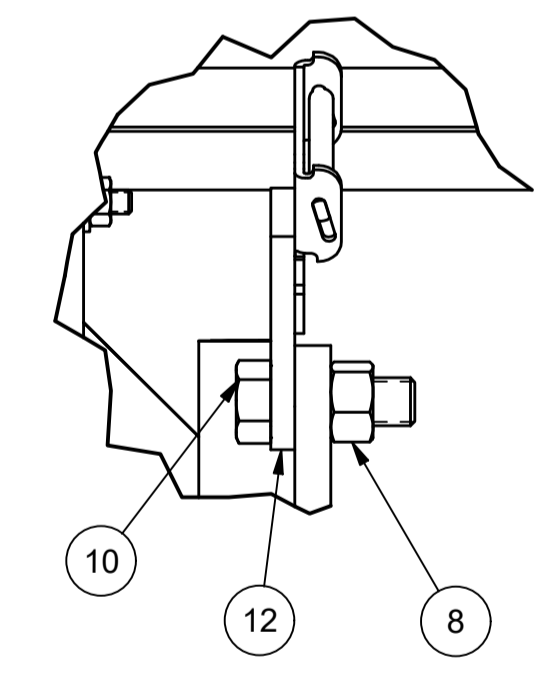
D-RING
DETAIL B
SCALE 1/2



REAR LOCKING BELT
ANCHOR
SECTION C-C
SCALE 1/2



INBOARD LAP BELT
ANCHOR
DETAIL G
SCALE 1/2

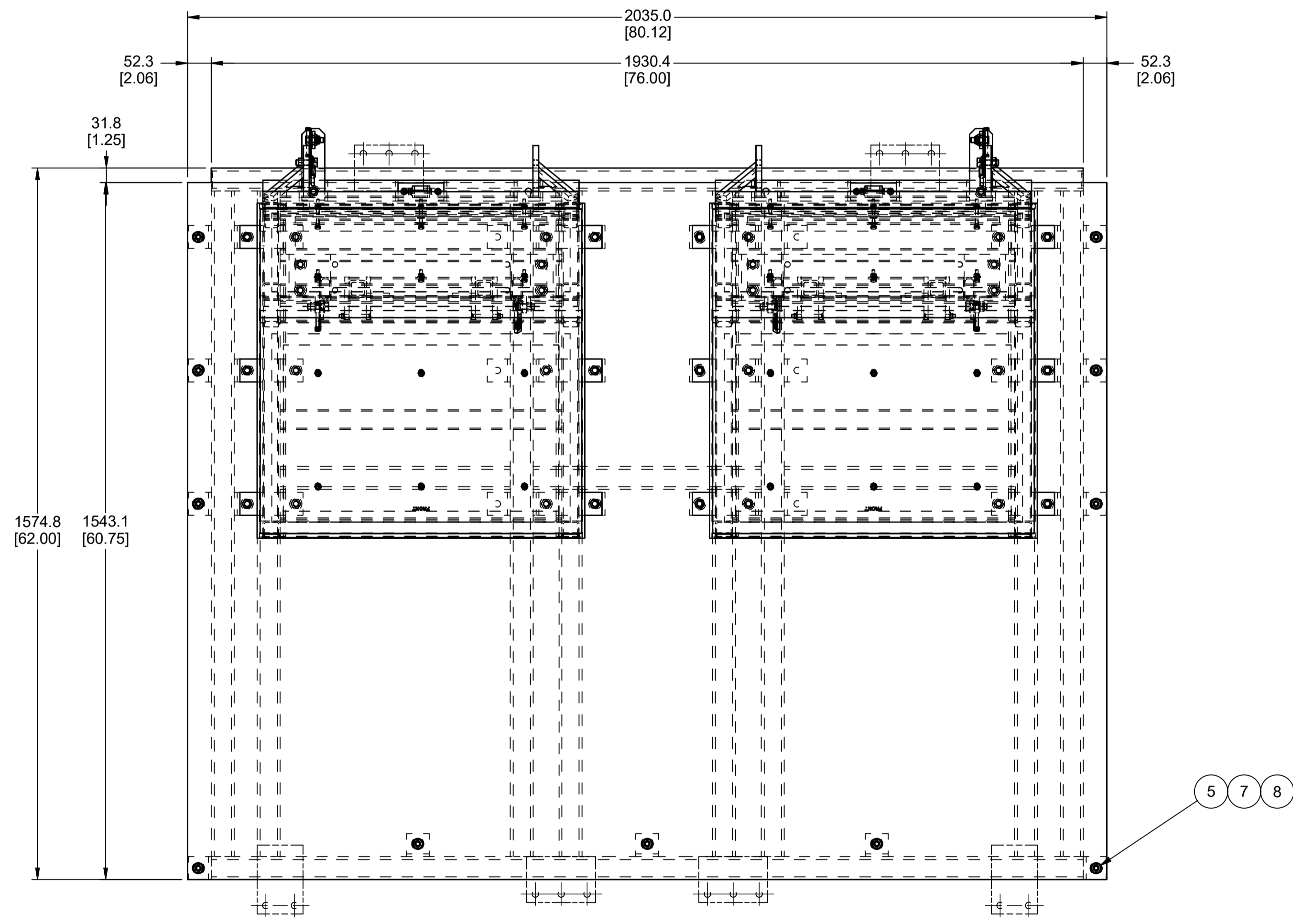


OUTBOARD LAP BELT
ANCHOR
DETAIL E
SCALE 1/2


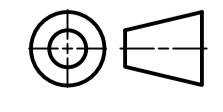
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
17	4	9000098	WASHER, FLAT 7/16"	Steel, Mild
16	2	9000134V	NUT, HEX 7/16-14 NYLOCK	Steel, Mild
15	2	9000967V	BOLT, HEX HD. 7/16-14 x 1 1/4	Steel, Mild
14	2	3021-123	D-RING	Steel, Mild
13	2	3021-122	REAR LOCKING BELT ANCHOR	Steel, Mild
12	2	3021-121	OUTBOARD LAP BELT ANCHOR	
11	2	3021-120	INBOARD LAP BELT ANCHOR	Steel, Mild
10	8	9000609V	BOLT, HEX HD. 1/2-13 x 1 1/2"	Steel, Mild
9	2	3021-333	REAR LOCKING BELT ANCHOR MTG. BAR ASSY.	
8	47	9000274	NUT, HEX 1/2-13	Steel, Mild
7	45	9000295	WASHER, FLAT Ø1/2" TYPE "A" 1.0625" O.D.	Steel, Mild
6	24	9000615V	BOLT, HEX HD. 1/2-13 x 2"	Steel, Mild
5	11	9000480V	SCREW, FHCS 1/2-13 x 1 1/2"	Steel, Mild
4	2	3021-820	REAR LOCKING BELT ANCHOR ASSY.	
3	2	3021-010	BENCH SEAT ASSEMBLY	
2	1	3021-117	SUPPORT FRAME COVER PLATE	
1	1	3021-105	SUPPORT FRAME TUBE ASSEMBLY	

NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

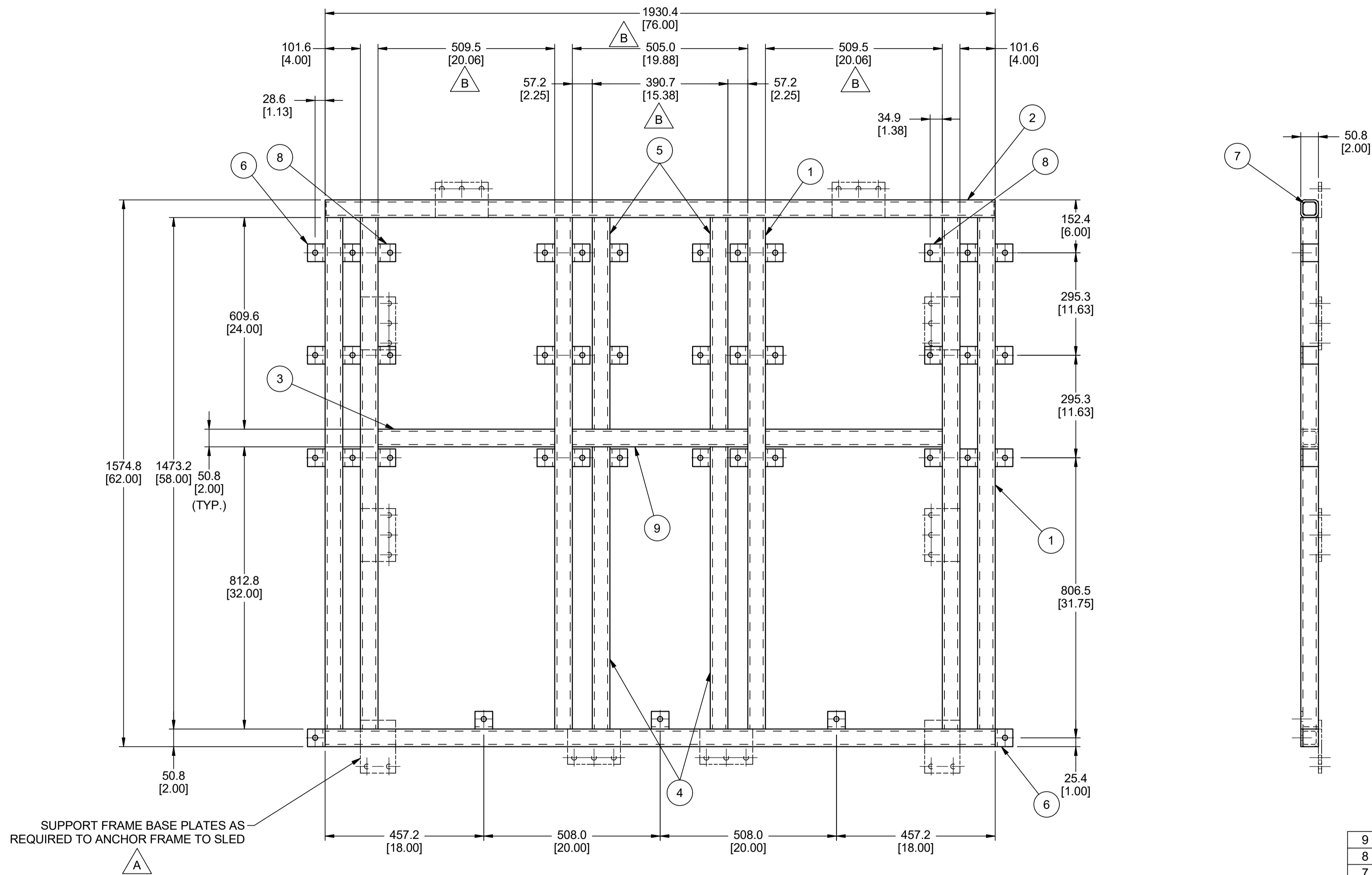
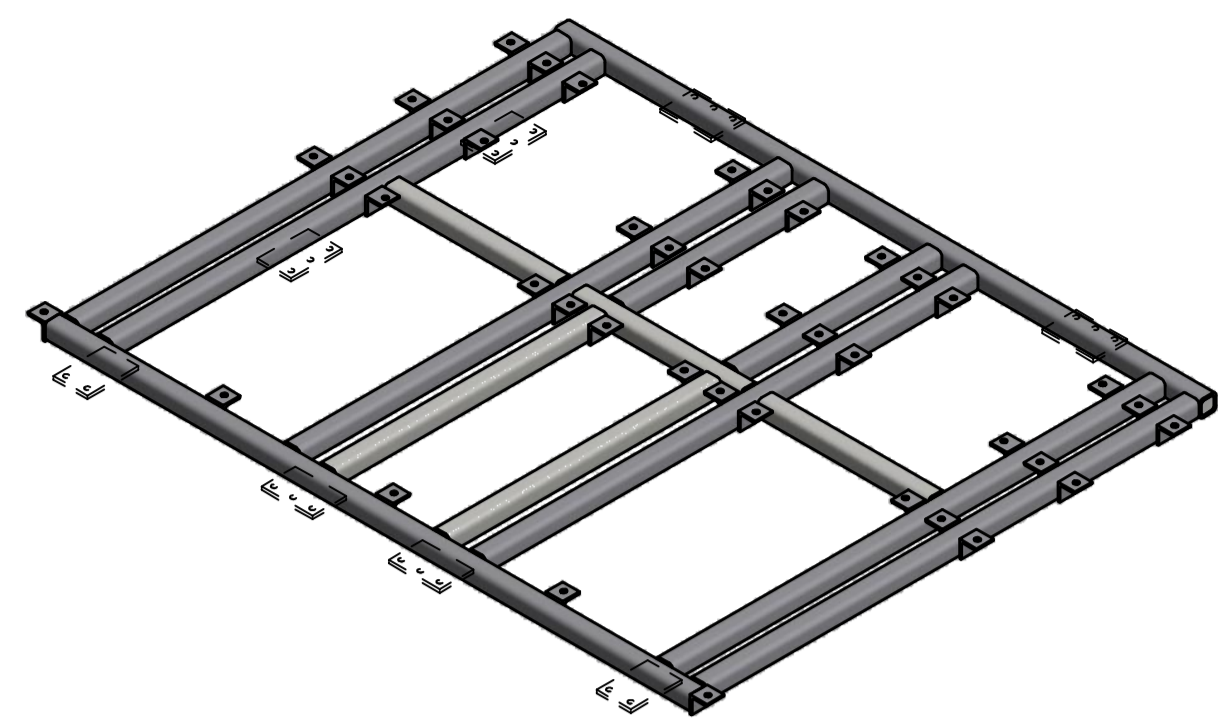
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER APPROVALS: Dave Walker DATE: 4/29/2013		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION BENCH SEATS & SUPPORT FRAME ASSEMBLY CHILD FRONTAL IMPACT SLED	
MATERIAL: HEAT TREAT: FINISH:		CHECKED: ENG: APPROVED:		SIZE: A1 DRAWING NUMBER: 3021-103 SCALE: 1/8 SHEET: 1 OF 2	



VIEW A-A
FROM SHT. 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION						
	APPROVALS DRAWN Dave Walker	DATE 4/29/2013		BENCH SEATS & SUPPORT FRAME ASSEMBLY CHILD FRONTAL IMPACT SLED					
MATERIAL HEAT TREAT FINISH	CHECKED ENG APPROVED	 THIRD ANGLE PROJECTION	<table border="1"> <tr> <td> SIZE A1 </td> <td> DRAWING NUMBER 3021-103 </td> <td> REV G </td> </tr> <tr> <td> SCALE: 1 / 8 </td> <td> SHEET 2 OF 2 </td> <td></td> </tr> </table>		SIZE A1	DRAWING NUMBER 3021-103	REV G	SCALE: 1 / 8	SHEET 2 OF 2
SIZE A1	DRAWING NUMBER 3021-103	REV G							
SCALE: 1 / 8	SHEET 2 OF 2								

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	DESIGNER
	A	MADE FRAME BASE PLATES REFERENCE AND ADDED NOTE; REMOVED WALL SUPPORT ANGLE 3021-106.	2/12/2015	DW
	B	DIMENSION 509.5 [20.06] WAS 508.0 [20.00], 505.0 [19.88] WAS 508.0 [20.00], AND 390.7 [15.38] WAS 393.7 [15.50]; ADDED ITEM #10 3021-110-3 SUPPORT FRAME INTERNAL TUBE #5	6/11/2016	DW
	C	ADDED NOTE #1; QTY. OF ITEM #1 PART # 3021-110-1 WAS 4, REMOVED PART # 3021-110-4	5/1/2019	DW

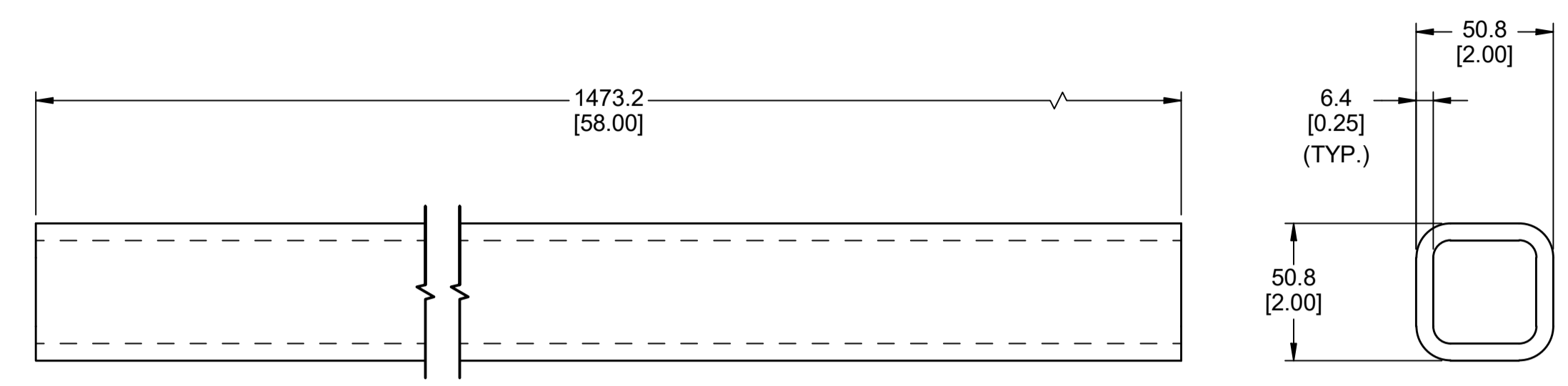


ITEM	QTY	PART NUMBER	DESCRIPTION
9	1	3021-110-3	SUPPORT FRAME INTERNAL TUBE 3
8	6	3021-118	SUPPORT FRAME ANGLE CLIP 2
7	2	3021-250-2	2" TUBE CAP
6	35	3021-115	SUPPORT FRAME ANGLE CLIP
5	2	3021-110-7	SUPPORT FRAME INTERNAL TUBE 4
4	2	3021-110-10	SUPPORT FRAME INTERNAL TUBE 5
3	2	3021-110-5	SUPPORT FRAME INTERNAL TUBE 2
2	2	3021-110-2	SUPPORT FRAME FRONT & REAR TUBE
1	6	3021-110-1	SUPPORT FRAME SIDE TUBE

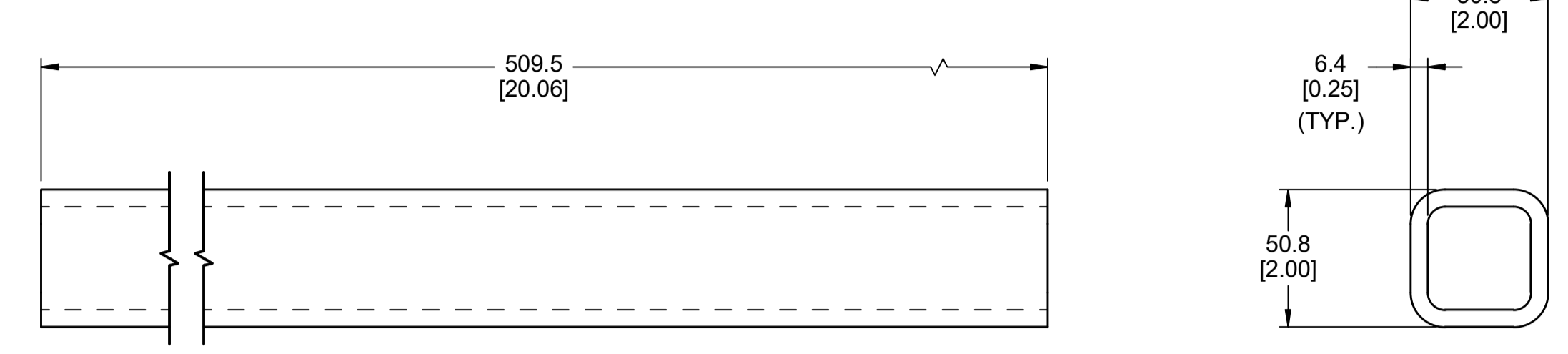
NOTES:
 C 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 4/26/2013	SUPPORT FRAME TUBE ASSEMBLY CHILD FRONTAL IMPACT SLED	
HEAT TREAT: ENG FINISH: APPROVED	DRAWING NUMBER: 3021-105 SCALE: 1/8 SHEET: 1 OF 1			

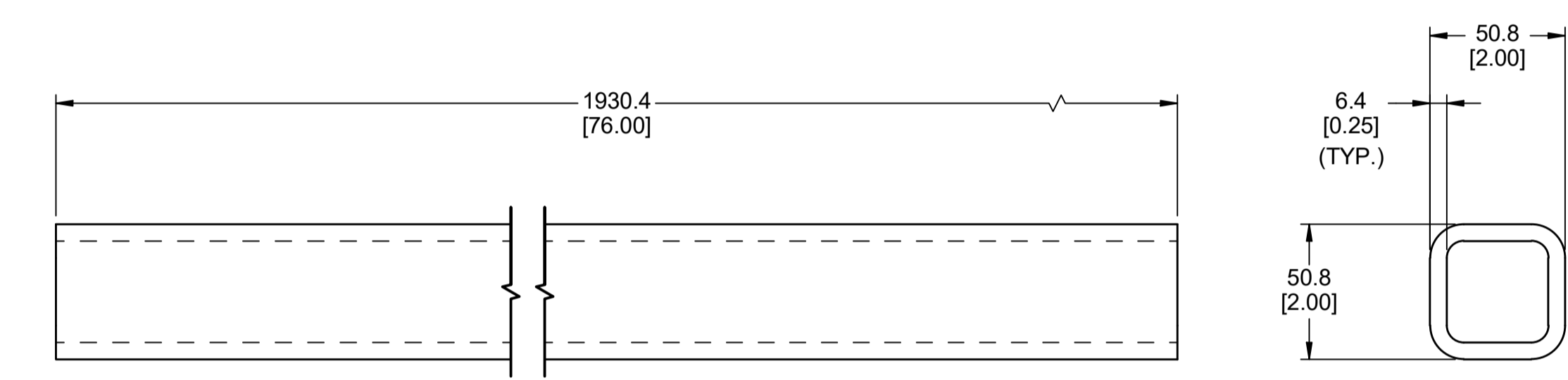
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 509.5 [20.06] WAS 508.0 [20.00], ADDED PART 3021-110-3	4/26/2013	DW
	B	ADDED NOTE #1; REMOVED PART #3021-110-4	5/1/2019	DW



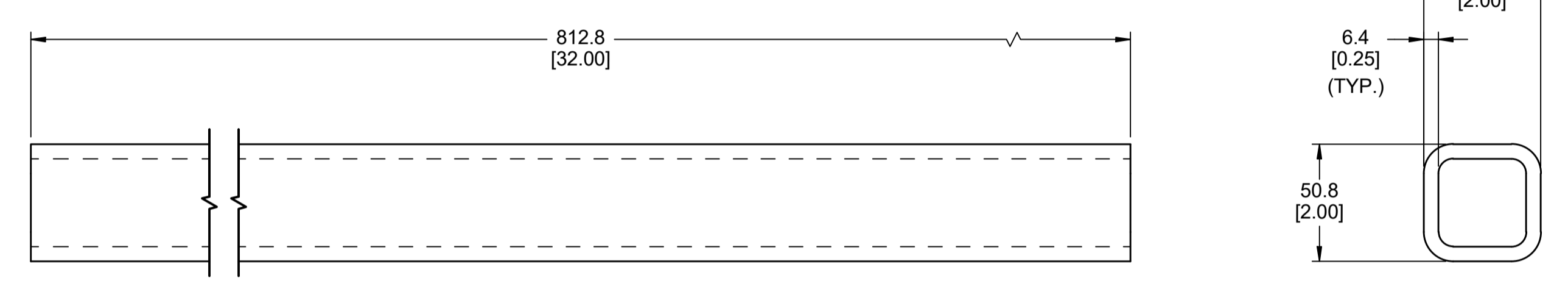
3021-110-1
SUPPORT FRAME SIDE TUBE
T.S. 2 x 2 x 1/4 x 1473.2 mm[58.0"]
(6 REQUIRED)



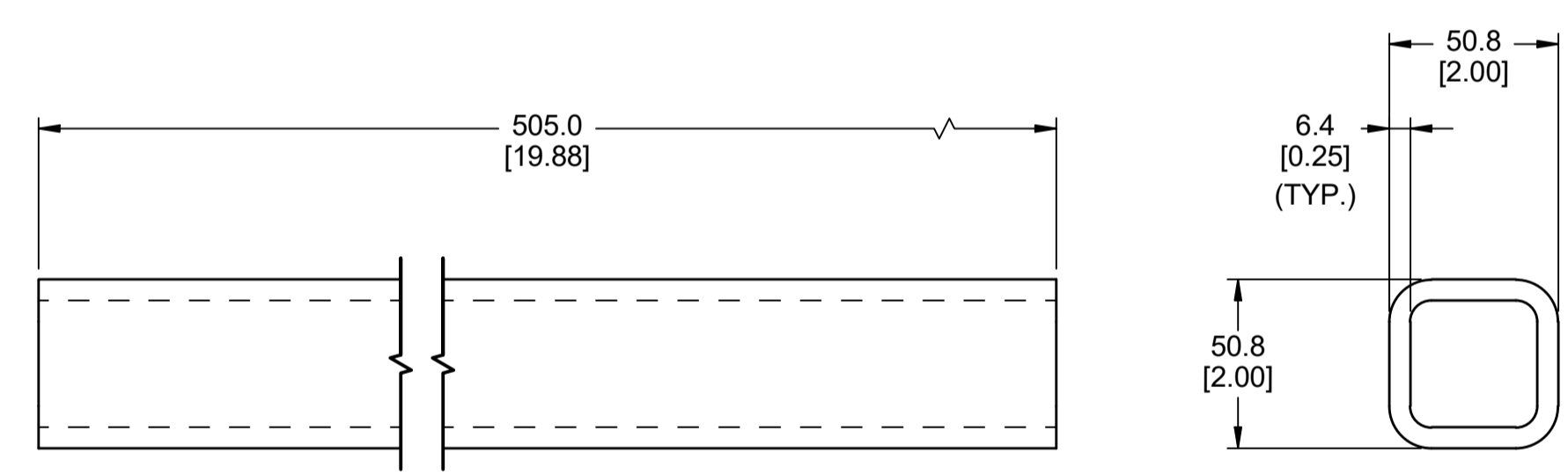
3021-110-5
SUPPORT FRAME INTERNAL TUBE 2
T.S. 2 x 2 x 1/4 x 508.0 mm[20.00"]
(2 REQUIRED)



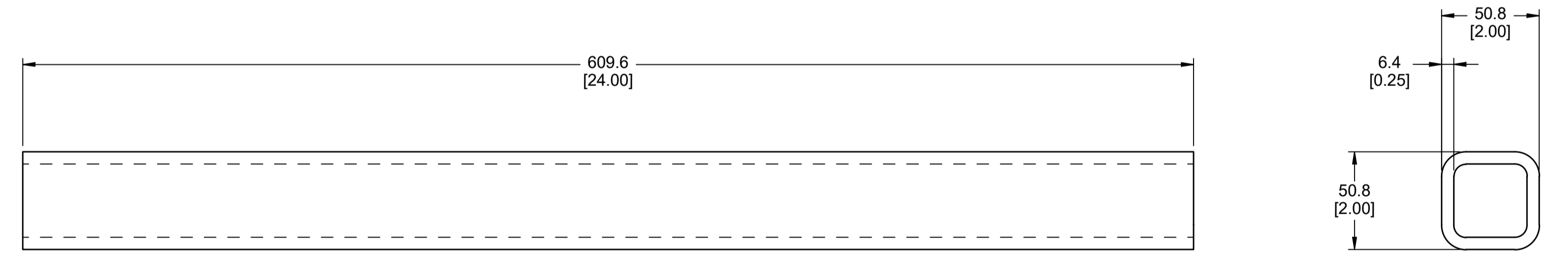
3021-110-2
SUPPORT FRAME FRONT & REAR TUBE
T.S. 2 x 2 x 1/4 x 1930.4 mm[76.0"]
(2 REQUIRED)



3021-110-10
SUPPORT FRAME INTERNAL TUBE 5
T.S. 2 x 2 x 1/4 x 812.8 mm[32.00"]
(2 REQUIRED)



3021-110-3
SUPPORT FRAME INTERNAL TUBE 3
T.S. 2 x 2 x 1/4 x 505.0 mm[19.88"]
(1 REQUIRED)

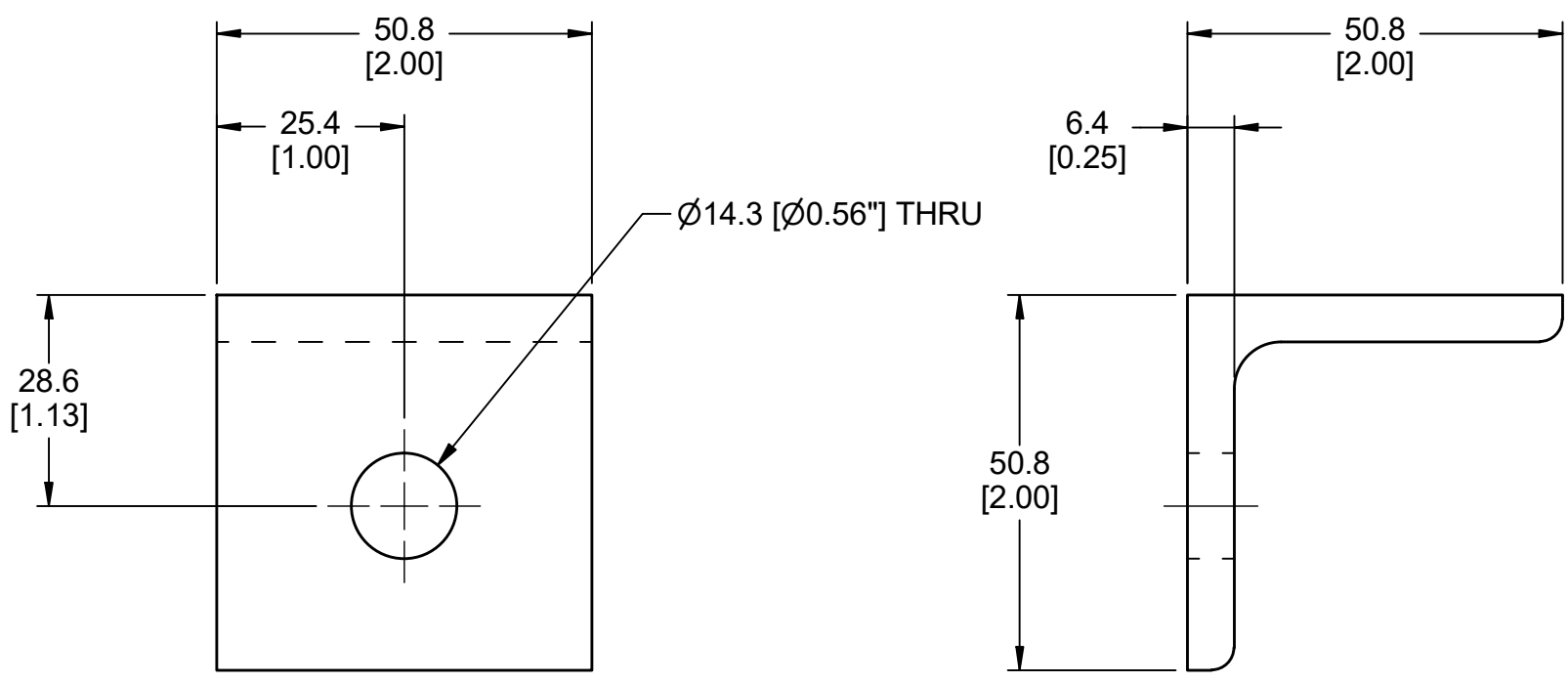
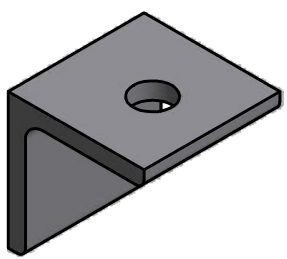


3021-110-7
SUPPORT FRAME INTERNAL TUBE 4
T.S. 2 x 2 x 1/4 x 609.6 mm[24.00"]
(2 REQUIRED)

NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 4/26/2013	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG: APPROVED:	SIZE: A1 SCALE: 1 / 2 SHEET: 1 OF 1	DRAWING NUMBER: 3021-110-1 thru 7 REV: B

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/17/2019	DW



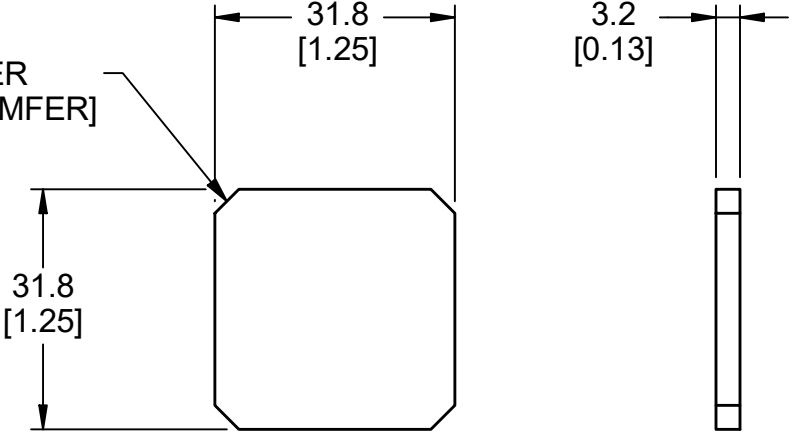
Ø14.3 [Ø0.56"] THRU

MATERIAL: L 2 x 2 x 1/4 x 50.8 mm[2.00"]

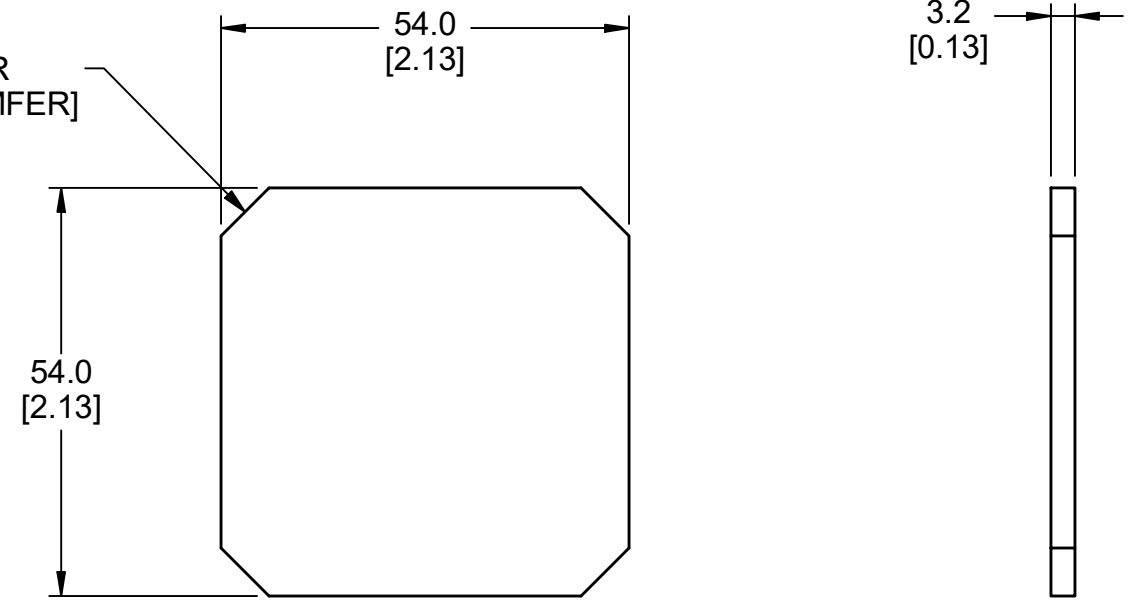
1. CALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE 4/26/2013		SUPPORT FRAME ANGLE CLIP CHILD FRONTAL IMPACT SLED	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE: 4/26/2013	SIZE: A3 SCALE: 1:1	DRAWING NUMBER: 3021-115 SHEET: 1 OF 1	REV: A

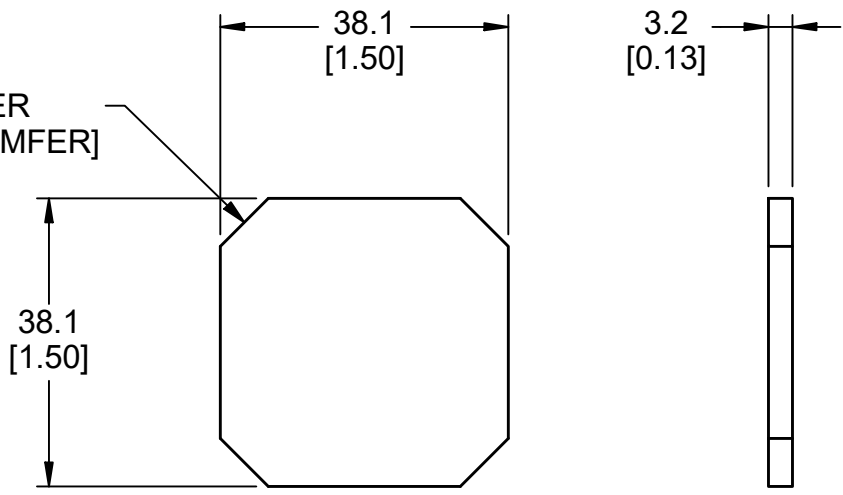
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/4/2013	DW



3021-250-1
BENCH FRAME TUBE CAP #1
PL 3.2[0.13"] x 31.8[1.25"] x 31.8[1.25"]



3021-250-3
2 1/2" TUBE CAP
PL 3.2[0.13"] x 54.0mm[2.13"] x 54.0mm[2.13"]

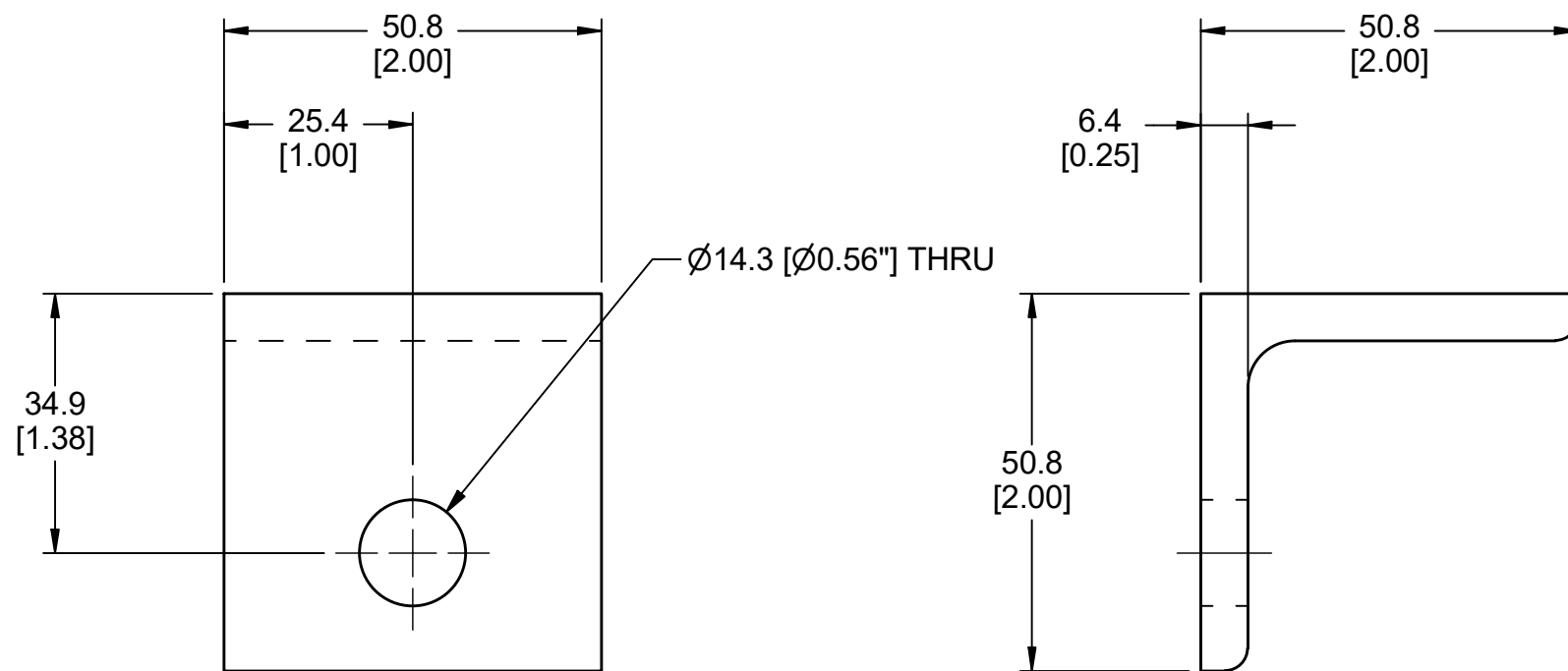
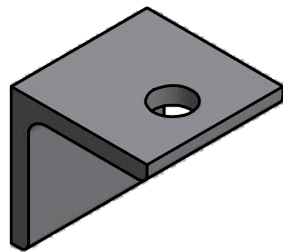


3021-250-2
2" TUBE CAP
PL 3.2[0.13"] x 38.1mm[1.5"] x 38.1mm[1.5"]

NOTES:
A 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12\text{"}$) UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE 4/4/2013		TUBE CAPS CHILD FRONTAL IMPACT SLED	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	SIZE: A3 SCALE: 1:1		DRAWING NUMBER: 3021-250-1 thru 3	REV: A	SHEET: 1 OF 1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/17/2019	DW



Ø14.3 [Ø0.56"] THRU

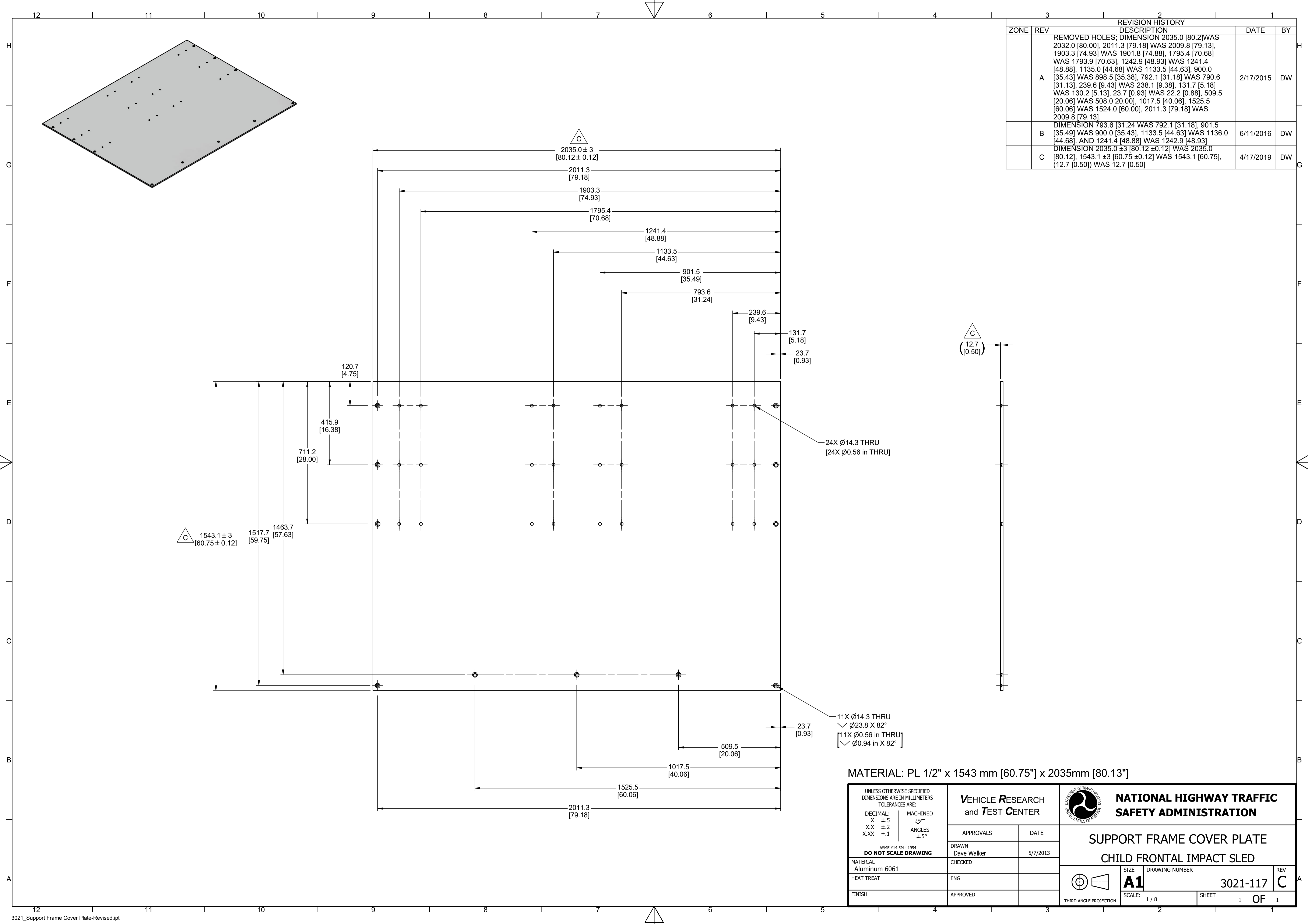


NOTES:

1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: L 2 x 2 x 1/4 x 50.8 mm[2.00"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
MATERIAL Steel, Mild		APPROVALS	DATE	SUPPORT FRAME ANGLE CLIP 2	
HEAT TREAT		DRAWN Dave Walker	4/26/2013	CHILD FRONTAL IMPACT SLED	
FINISH		CHECKED		SIZE A3	DRAWING NUMBER 3021-118
		ENG		SCALE: 1 : 1	REV A
		APPROVED		SHEET 1 OF 1	

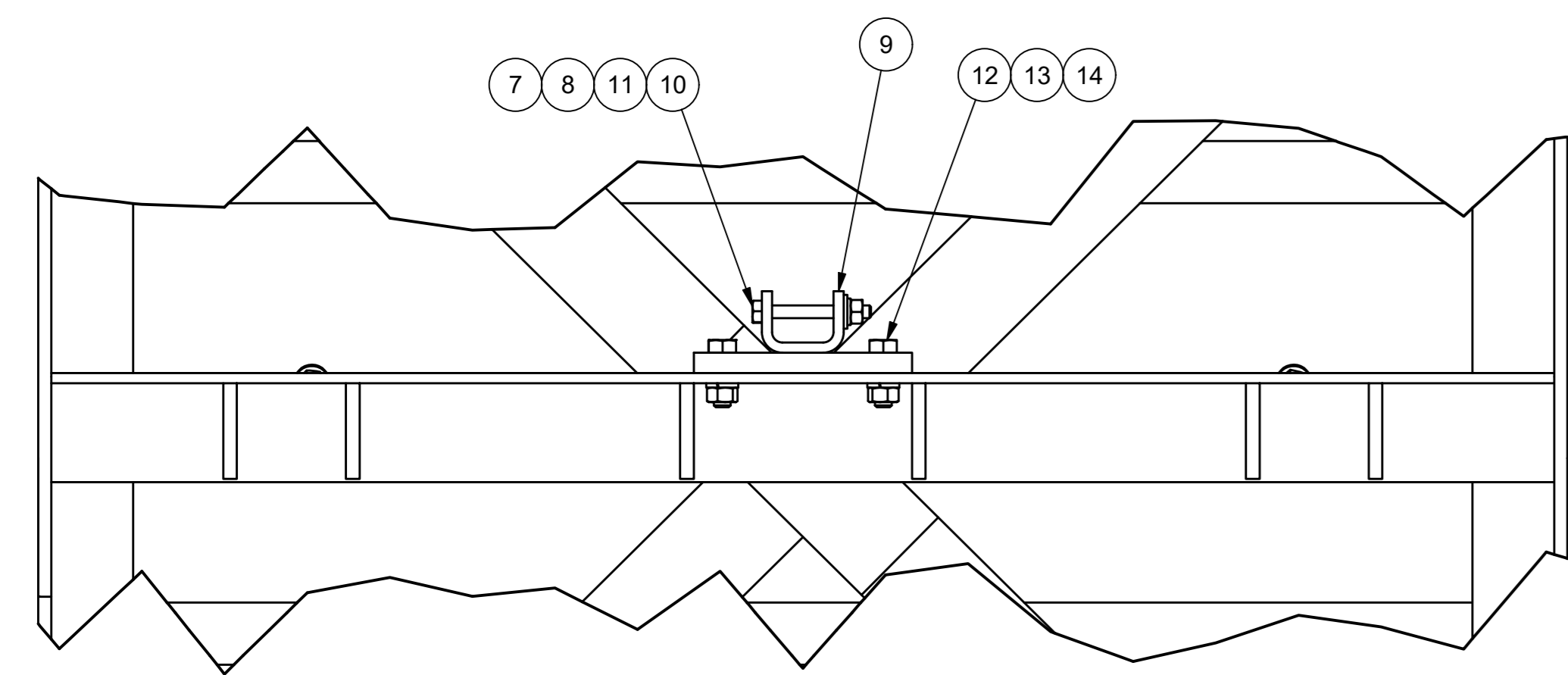
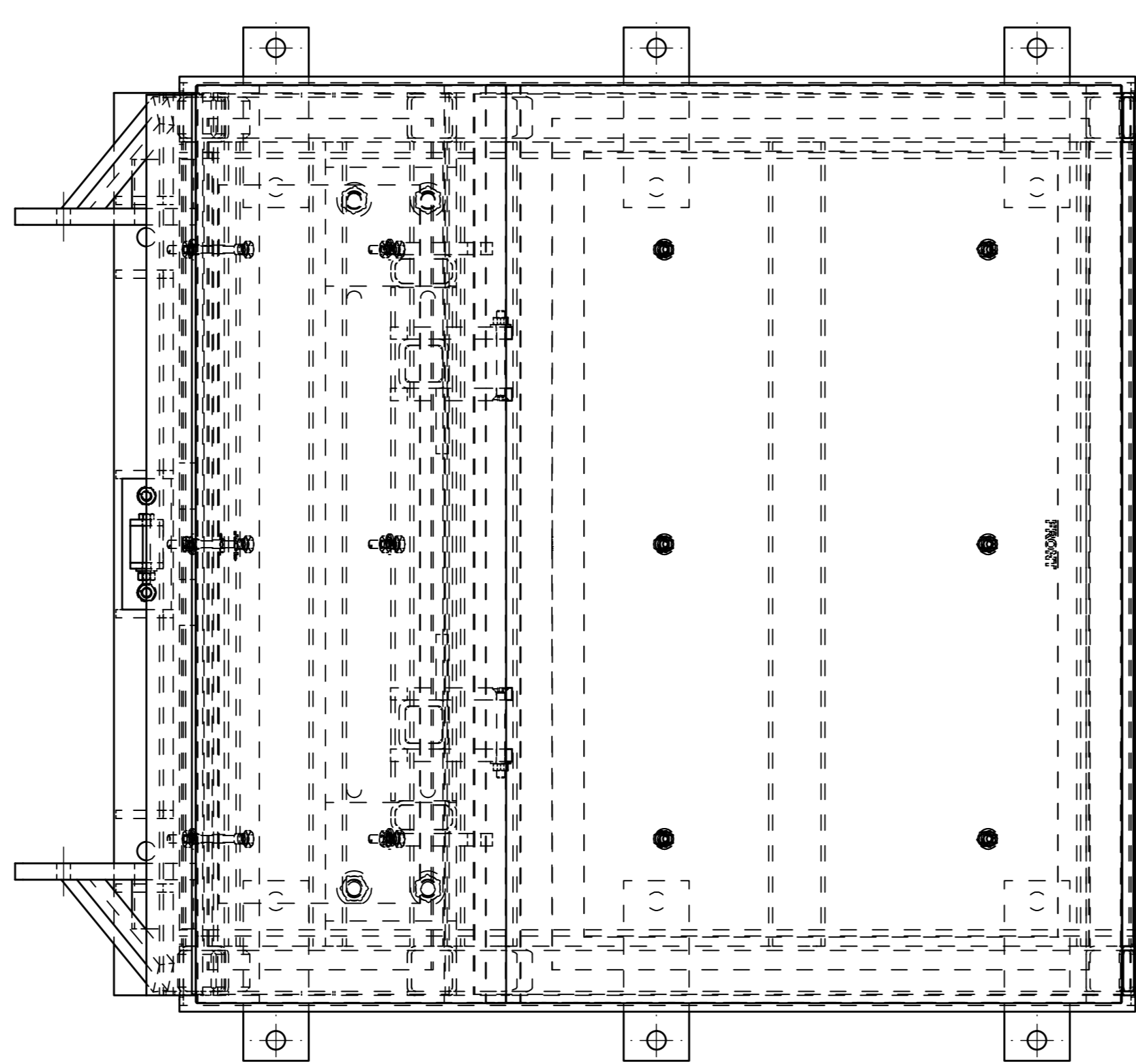
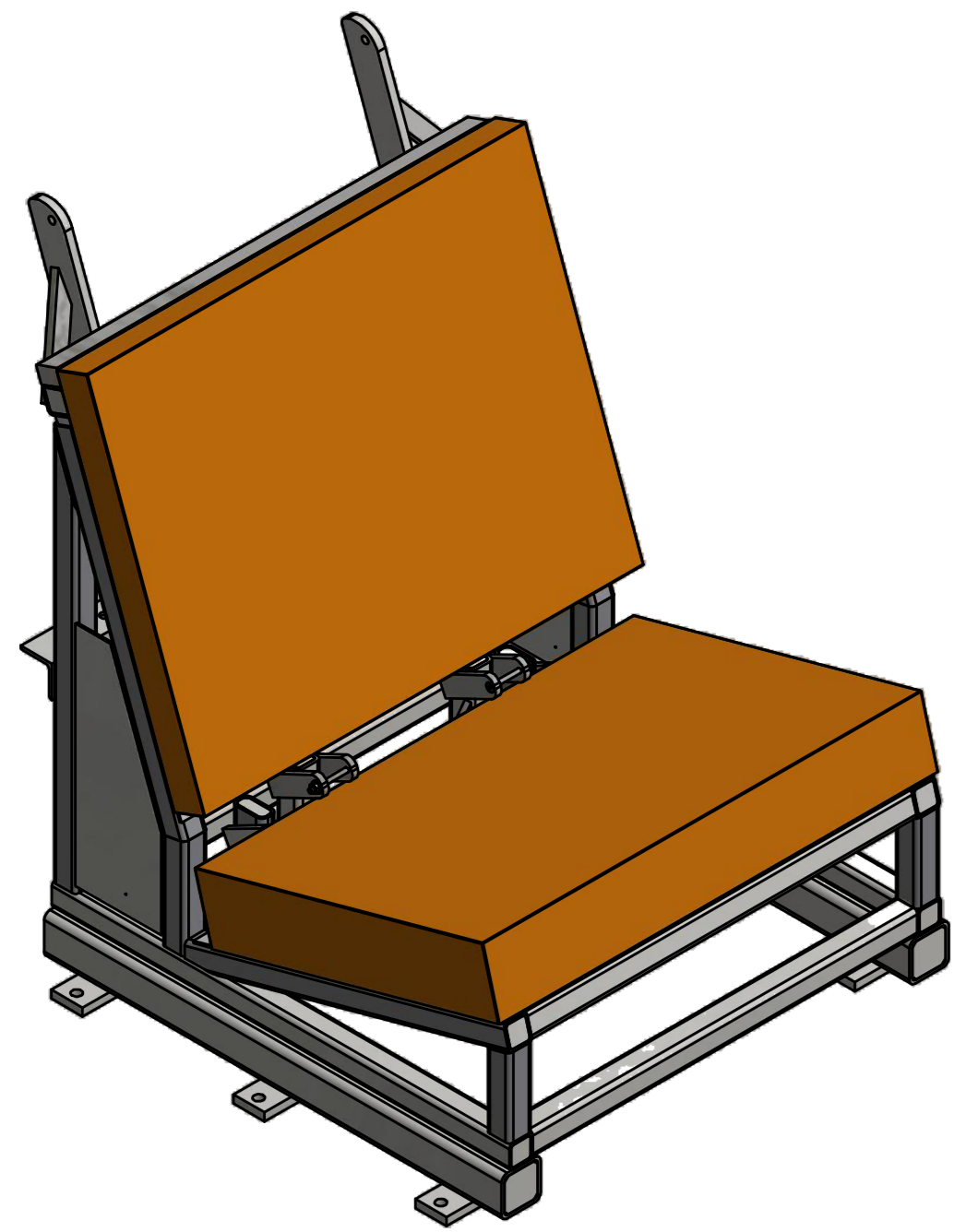


REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	REMOVED HOLES; DIMENSION 2035.0 [80.2] WAS 2032.0 [80.00], 2011.3 [79.18] WAS 2009.8 [79.13], 1903.3 [74.93] WAS 1901.8 [74.88], 1795.4 [70.68] WAS 1793.9 [70.63], 1242.9 [48.93] WAS 1241.4 [48.88], 1135.0 [44.68] WAS 1133.5 [44.63], 900.0 [35.43] WAS 898.5 [35.38], 792.1 [31.18] WAS 790.6 [31.13], 239.6 [9.43] WAS 238.1 [9.38], 131.7 [5.18] WAS 130.2 [5.13], 23.7 [0.93] WAS 22.2 [0.88], 509.5 [20.06] WAS 508.0 [20.00], 1017.5 [40.06], 1525.5 [60.06] WAS 1524.0 [60.00], 2011.3 [79.18] WAS 2009.8 [79.13].	2/17/2015	DW
	B	DIMENSION 793.6 [31.24] WAS 792.1 [31.18], 901.5 [35.49] WAS 900.0 [35.43], 1133.5 [44.63] WAS 1136.0 [44.68]. AND 1241.4 [48.88] WAS 1242.9 [48.93]	6/11/2016	DW
	C	DIMENSION 2035.0 ±3 [80.12 ±0.12] WAS 2035.0 [80.12], 1543.1 ±3 [60.75 ±0.12] WAS 1543.1 [60.75], (12.7 [0.50]) WAS 12.7 [0.50]	4/17/2019	DW

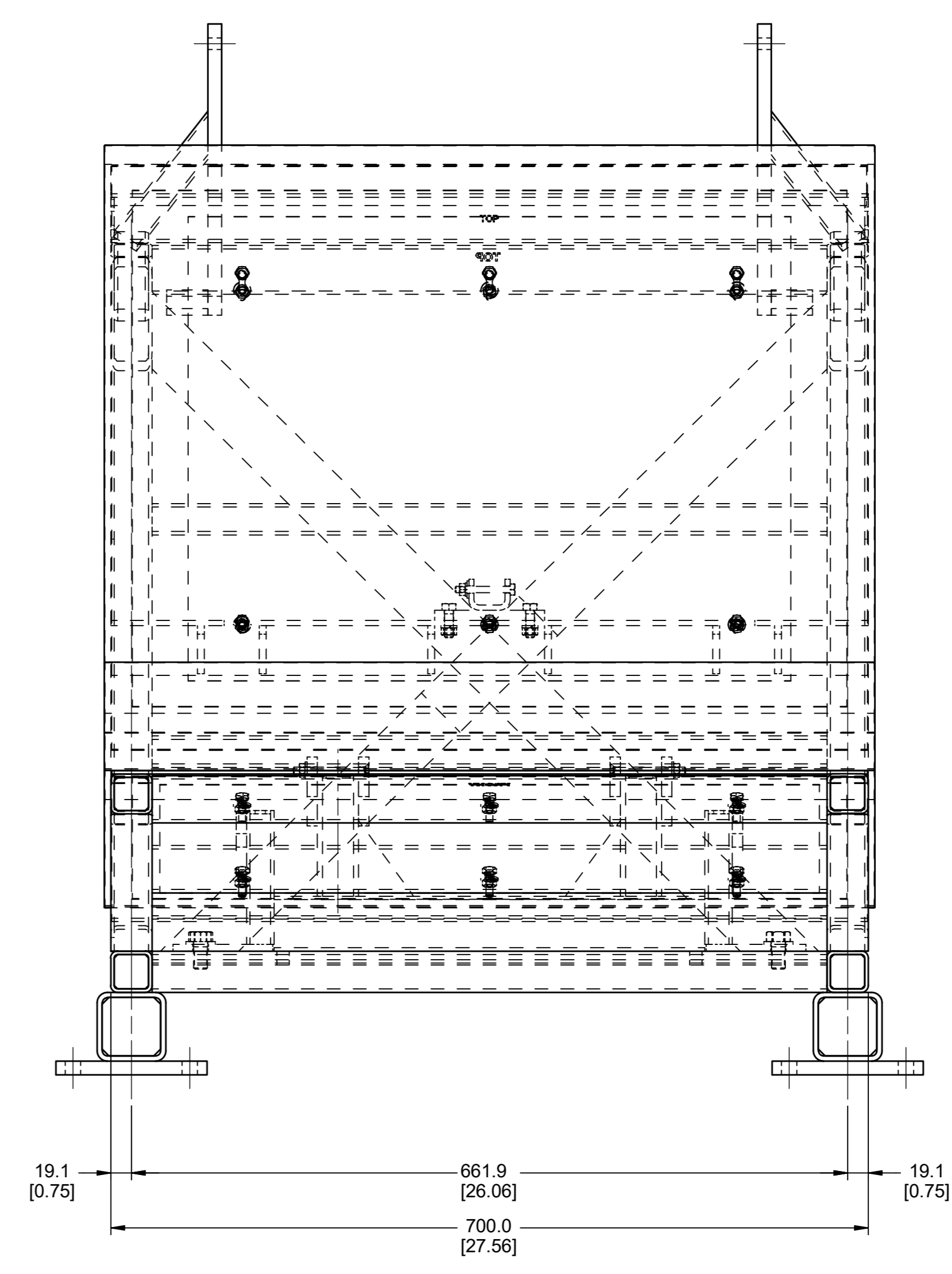
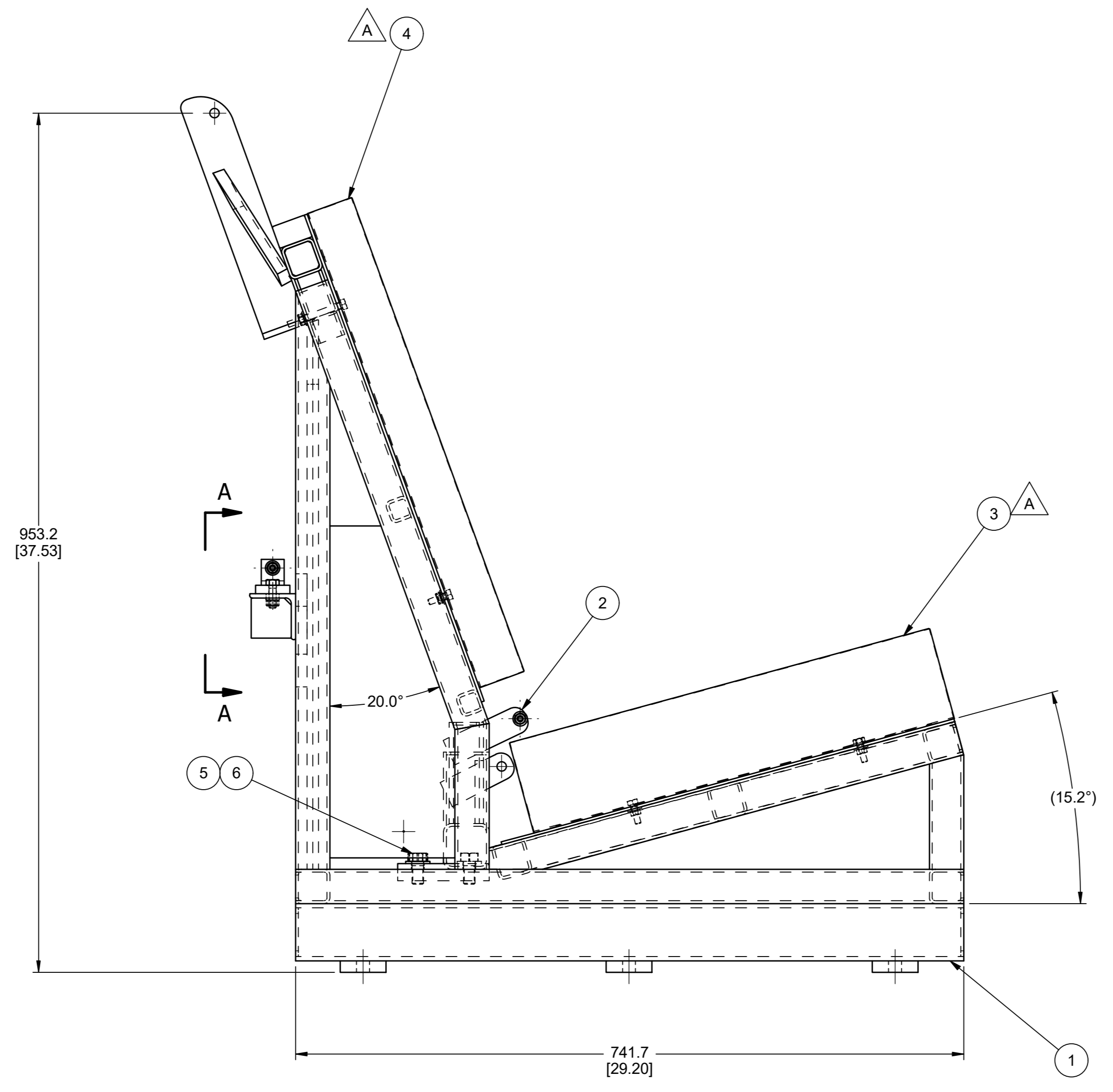
MATERIAL: PL 1/2" x 1543 mm [60.75"] x 2035mm [80.13"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 5/7/2013	
MATERIAL: Aluminum 6061 HEAT TREAT: FINISH:	ENG: APPROVED:	THIRD ANGLE PROJECTION	SIZE: A1 DRAWING NUMBER: 3021-117 SCALE: 1/8 SHEET: 1 OF 1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	REVISED ITEM #3 3021-230 SEAT PAN CUSHION ASSY. AND #4 3021-245 SEAT BACK CUSHION ASSEMBLY.	2/19/2015	DW
	B	REDESIGNED ITEM #2, PART #3021-750, LATCH ASSEMBLY; REDESIGNED UPPER D-RING MOUNT (3021-015 - BENCH SEAT FRAME ASSEMBLY); DIMENSION 953.2 [37.53] WAS 955.7 [37.63], 661.9 [26.06] WAS 660.4 [26.00], AND 700.0 [27.56] WAS 698.5 [27.50]	7/12/2016	DW
	C	QTY. OF ITEMS #7 & 8 WAS 12, ADDED ITEMS 9 THRU 14 AND VIEW A-A	4/4/2018	DW
	D	ADDED NOTE #1	4/17/2019	DW



VIEW A-A
SCALE 0.375



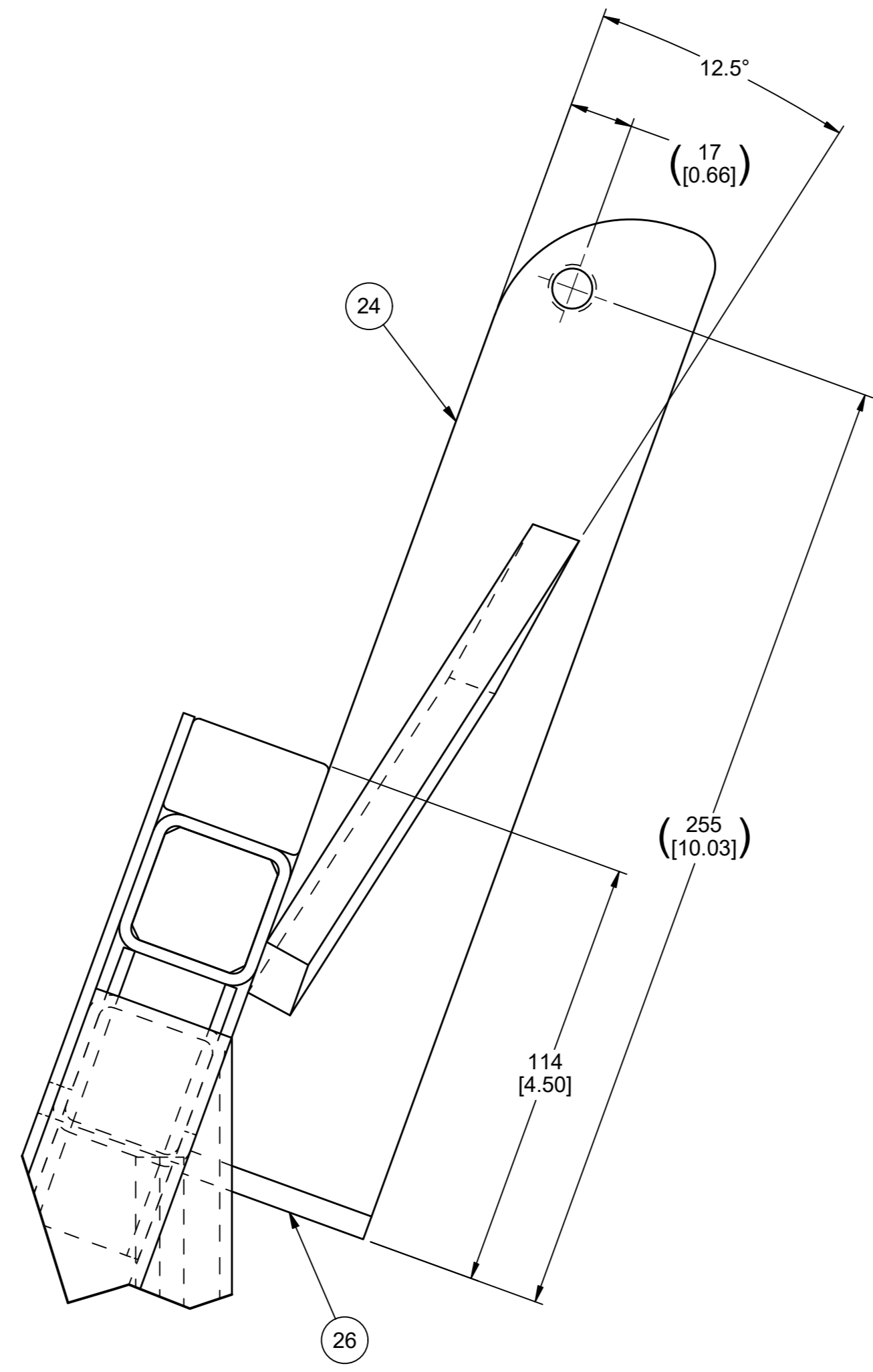
NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
14	2	9000656	NUT, HEX 5/16-18	Steel, Mild
13	2	9000118	WASHER, SPRING LOCK 5/16"	Steel, Mild
12	2	9000940V	BOLT, HEX HD. 5/16-18 x 1"	Steel, Mild
11	1	9000117	WASHER, SPRING LOCK 1/4"	Steel, Mild
10	1	3021-332	TETHER ANCHOR BOLT - MODIFIED HEX HD BOLT	
9	1	2921-345	TETHER ANCHOR ASSEMBLY	
8	13	9000105	NUT, HEX 1/4-20	Steel, Mild
7	13	9000244	WASHER, FLAT Ø1/4"	Steel, Mild
6	4	9000604V	BOLT, HEX HD. 1/2-13 x 1"	Steel, Mild
5	4	9000295	WASHER, FLAT Ø1/2" TYPE "A" 1.0625" O.D.	Steel, Mild
4	1	3021-245	SEAT BACK CUSHION ASS'Y.	
3	1	3021-230	SEAT PAN CUSHION ASS'Y.	
2	1	3021-750	LATCH ASSEMBLY	
1	1	3021-015	BENCH SEAT FRAME ASSEMBLY	

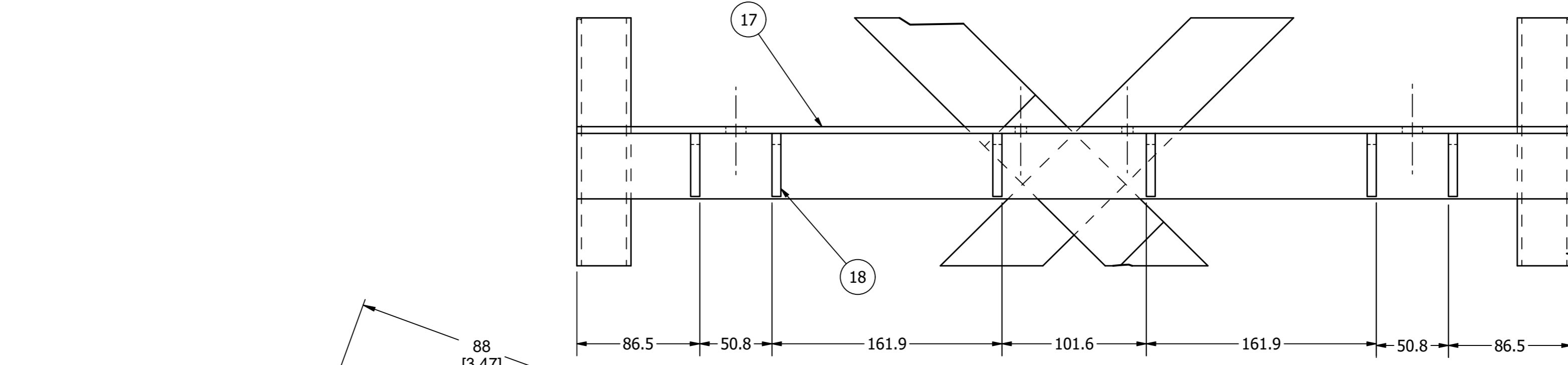
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 DO NOT SCALE DRAWING		MACHINED ✓ ANGLES ±.5°		VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
APPROVALS		DATE		BENCH SEAT ASSEMBLY CHILD FRONTAL IMPACT SLED			
DRAWN Dave Walker		4/12/2013		DRAWING NUMBER 3021-010			
HEAT TREAT		ENG		SCALE: 1:1			
FINISH		APPROVED		SHEET 1 OF 1			



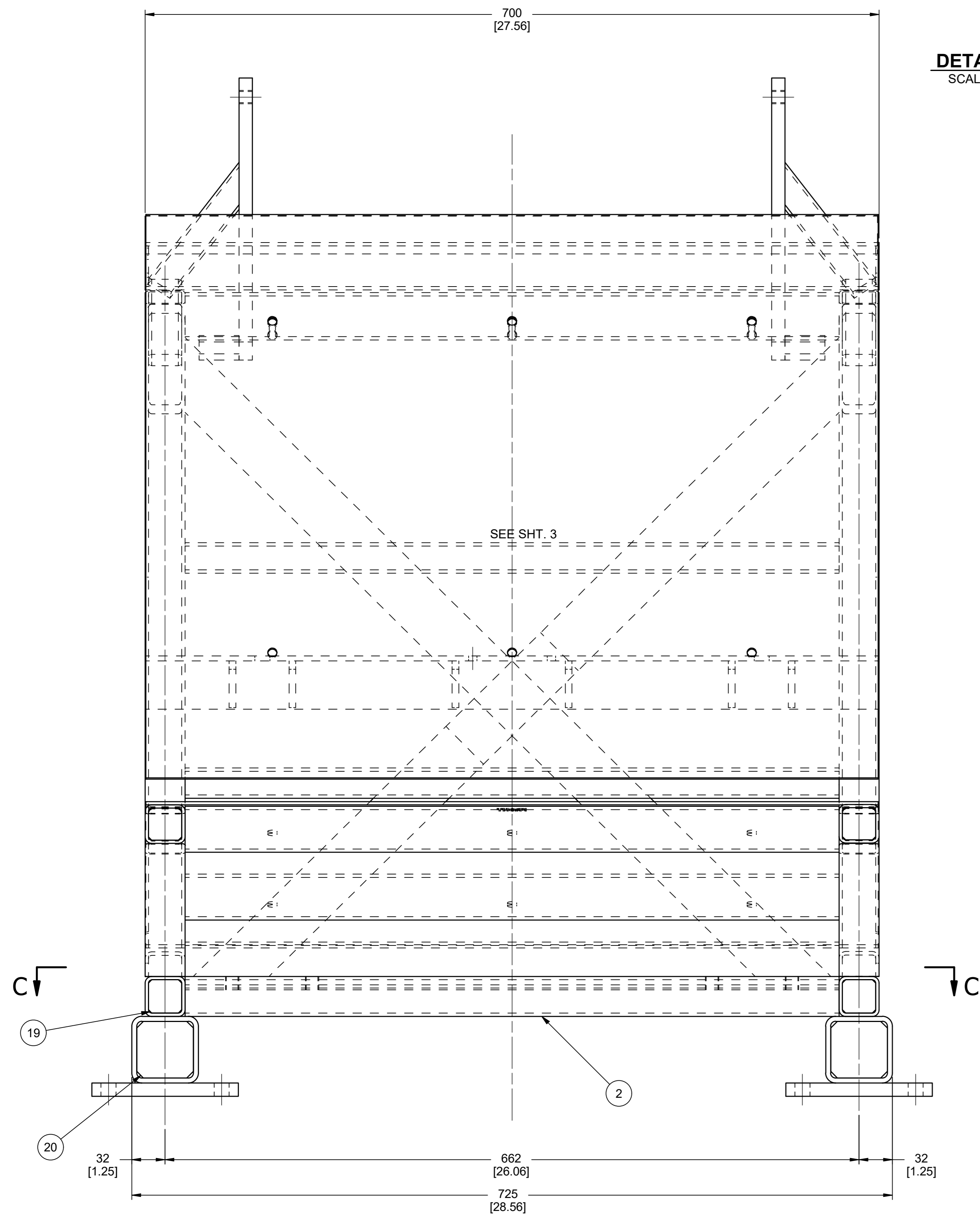
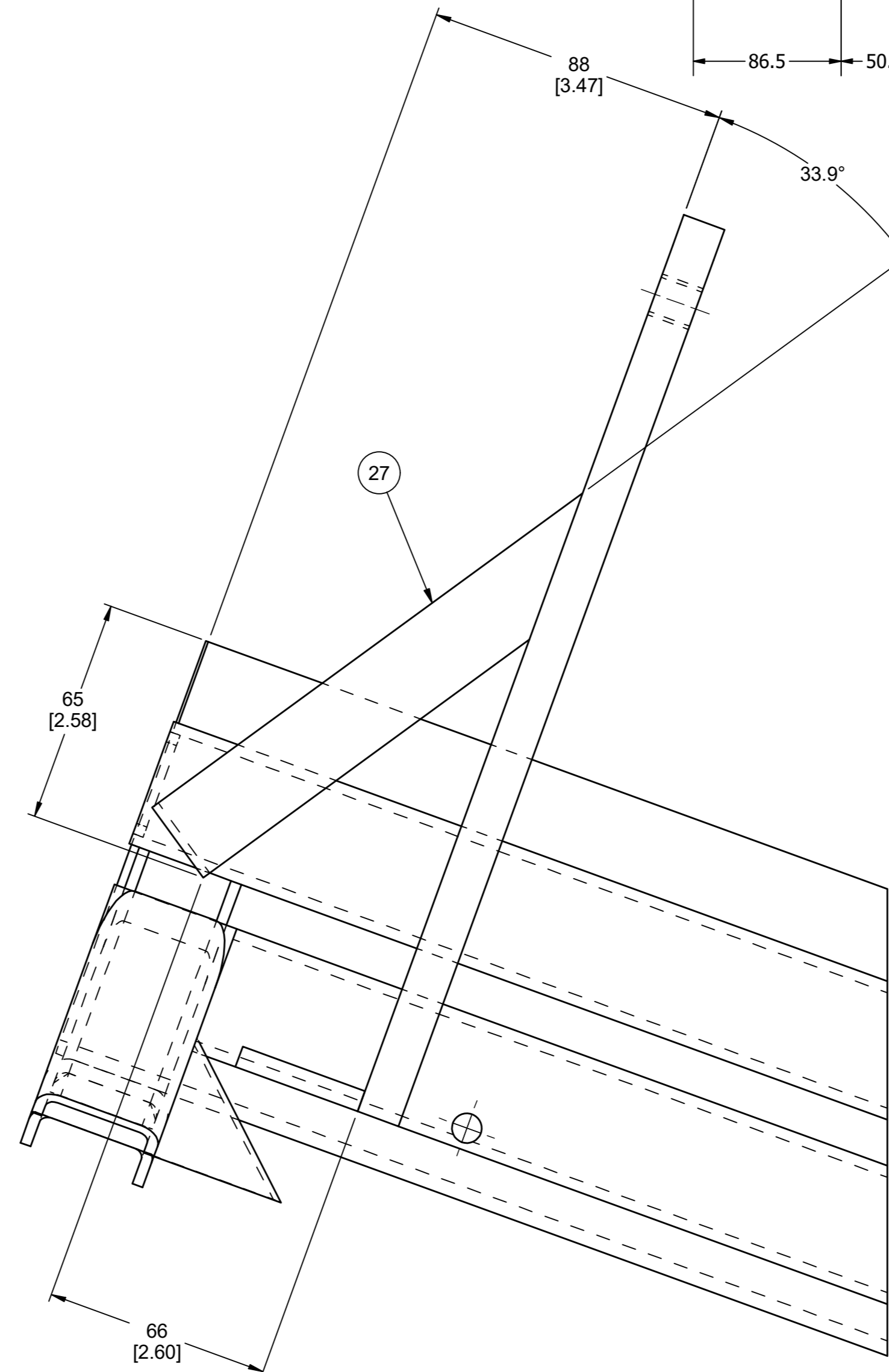
B
SEE SHT. 2



DETAIL G
SCALE 3/4

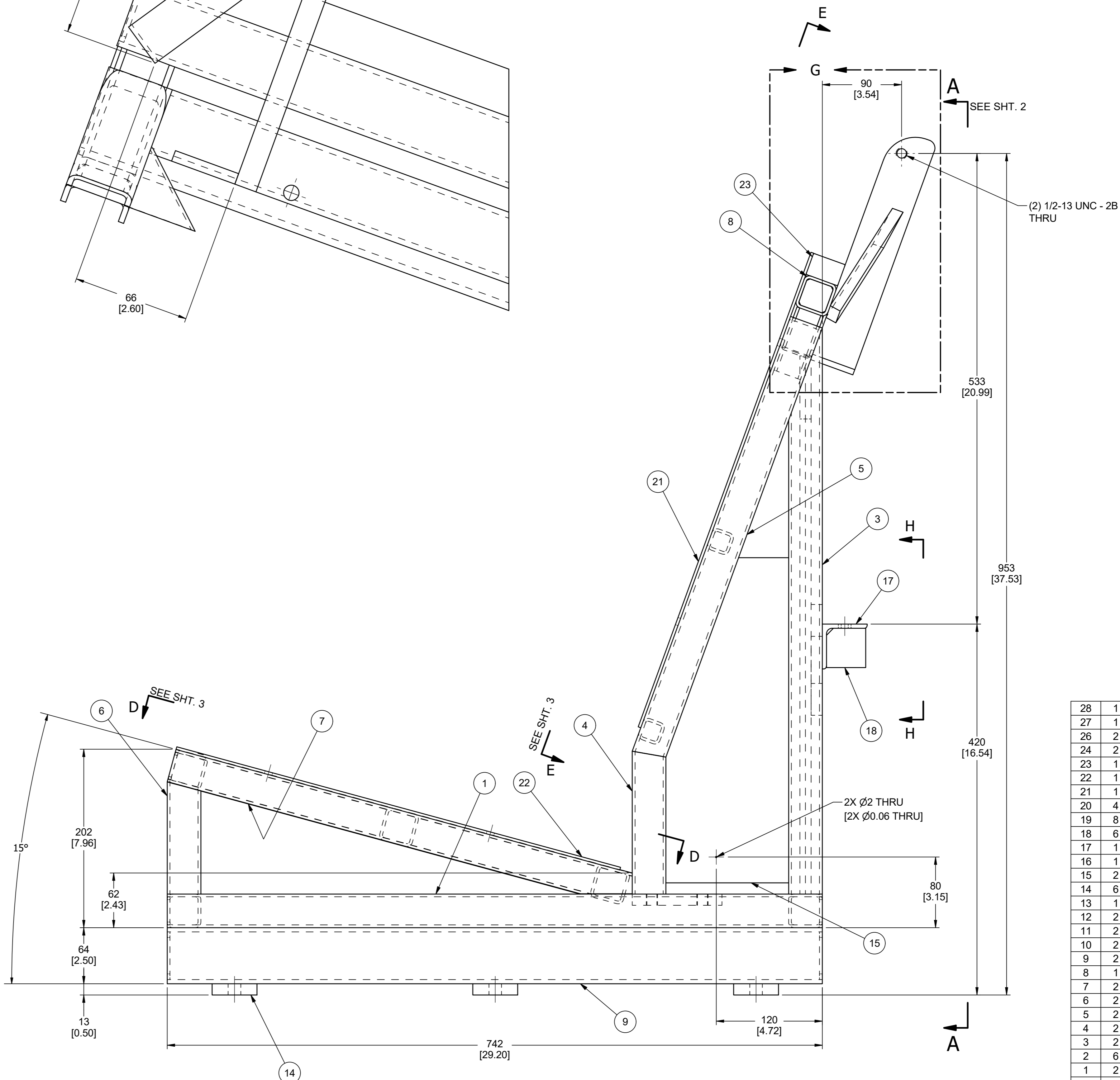


SECTION H-H
SCALE 0.375 : 1



NOTES:
1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$)
UNLESS OTHERWISE NOTED.

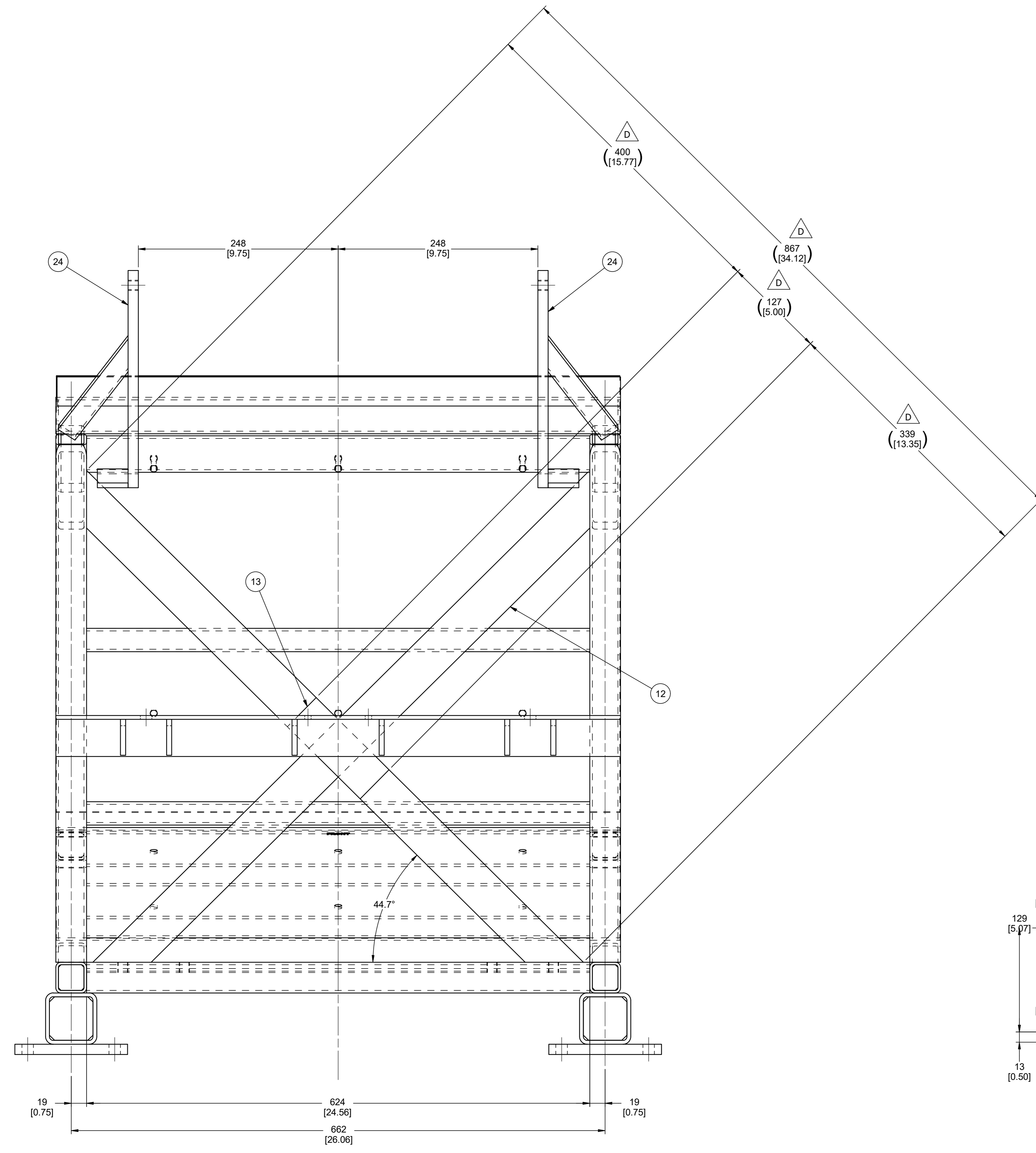
B



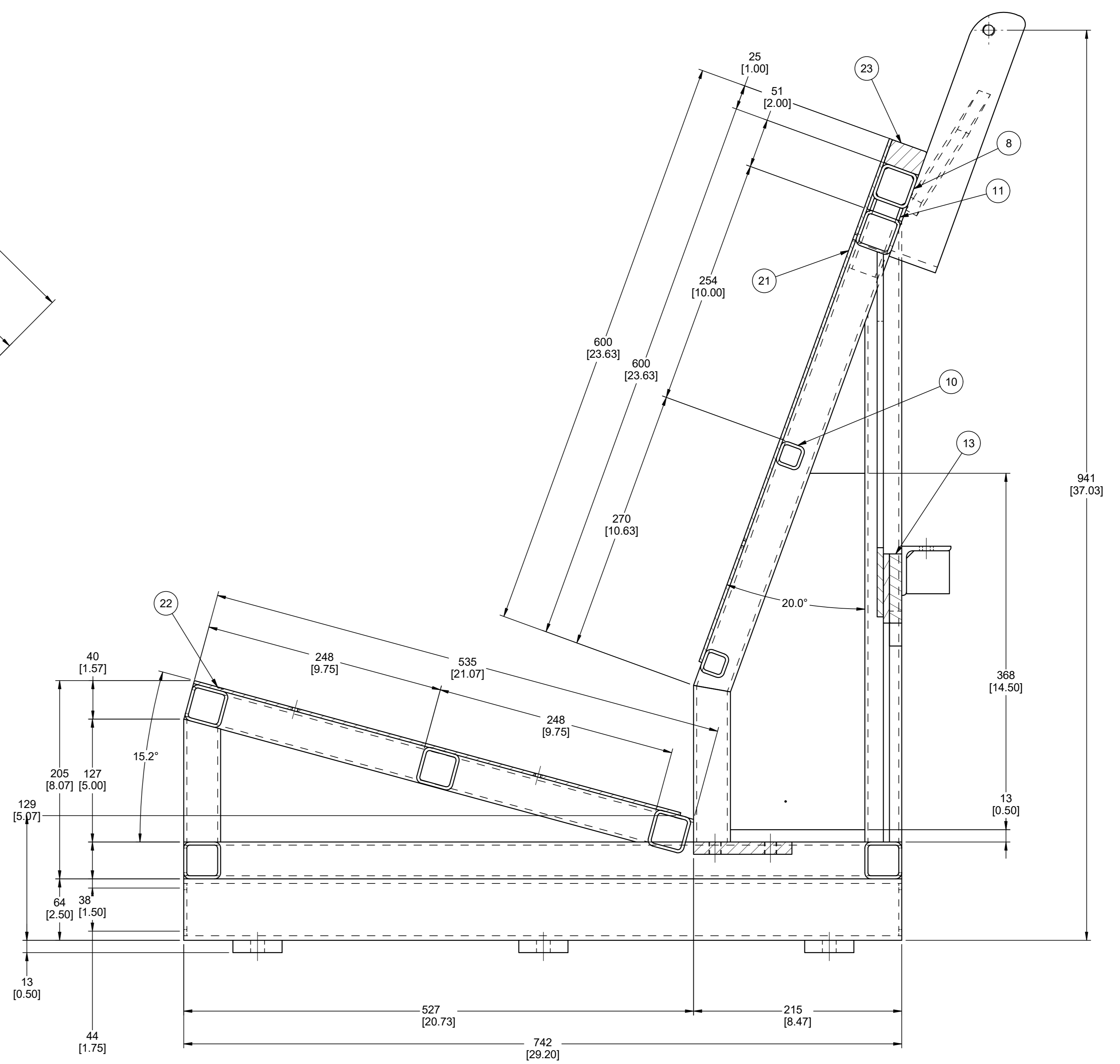
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
G2, 12	A	ADDED VIEWS D-D AND E-E REMOVED PARTS 3021-220-1, 3021-220-2, 3021-221, & 3021-250-2; ADDED PARTS 3021-201, 3021-326, 3021-342, 3021-339, & 3021-340; REDESIGNED UPPER D-RING ANCHOR	2/19/2015	DW
	B	ADDED DETAIL G, DIM 953.2 (37.53) WAS 926.4(36.47) AND 700.0(27.56) WAS 800.1(31.50) SHEET 1 DIM. 247.7(9.75) WAS 305.0(12.01), 600.2(23.63) WAS 574.8(22.63), 940.5(37.03) WAS 901.0(35.47) SHEET 2 DIM. 121.4(4.78) WAS 88.9(3.50), 228.6(9.00) WAS 200.4(10.25), 108.0(4.25) WAS 69.9(2.75), 342.9(13.09) WAS 311.2(12.25), 575.0(22.64), WAS 546.1(21.50), 121.4(4.78) WAS 88.9(3.50), 228.6(9.00) WAS 260.4(10.25), 260.3(10.25) WAS 304.8(12.00); HOLE NOTE 6X Ø8.2 THRU (6X Ø0.32 THRU) WAS ((6X Ø8.2 THRU (6X Ø0.32 in THRU))	7/14/2016	DW
	C	ADDED SECTION H-H 336.6 (13.25) WAS 342.9 (13.50); CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE	3/8/2018	DW
	D	SHT. 2 OF 3 DIMENSION (867 (34.12)) WAS 866.8 (34.12), (400 (15.77)) WAS 400.5 (15.77), (127 (5.00)) WAS 127.0 (5.00), (339 (13.35)) WAS 339.1 (13.35) SHT. 3 OF 3 HOLE DIMENSION 6X 8.7 THRU (6X 0.34 THRU) WAS 6X 8.2 THRU (6X 0.32 THRU)	4/17/2019	DW

ITEM	QTY	PART NUMBER	DESCRIPTION
28	1	3021-340	D-RING ANCHOR BRACE BAR - RIGHT
27	1	3021-339	D-RING ANCHOR BRACE BAR - LEFT
26	2	3021-342	D-RING ANCHOR GUSSET
24	2	3021-326	D-RING ANCHOR
23	1	3021-201	BENCH SEAT FRAME TOP BAR
22	1	3021-260	BENCH SEAT PAN PLATE
21	1	3021-265	BENCH SEAT BACK PLATE
20	4	3021-250-3	2 1/2" TUBE CAP
19	8	3021-250-1	BENCH FRAME TUBE CAP #1
18	6	3021-851	REAR SHELF MOUNT - ANGLE GUSSET
17	1	3021-850	REAR SHELF MOUNT
16	1	3021-270	SEAT BELT ANCHOR PLATE
15	2	3021-255	SEAT FRAME GUSSET PLATE
14	6	3021-209	SEAT FRAME ANCHOR PLATE
13	1	3021-206	BENCH CROSS BRACE SPACER BAR
12	2	3021-205	BENCH CROSS BRACE PLATE
11	2	3021-210	SEAT BACK EXTENSION STANDOFF
10	2	3021-200-10	BENCH FRAME TUBE #10
9	2	3021-200-9	BENCH FRAME TUBE #9
8	1	3021-200-8	BENCH FRAME TUBE #8
7	2	3021-200-7	BENCH FRAME TUBE #7
6	2	3021-200-6	BENCH FRAME TUBE #6
5	2	3021-200-5	BENCH FRAME TUBE #5
4	2	3021-200-4	BENCH FRAME TUBE #4
3	2	3021-200-3	BENCH FRAME TUBE #3
2	6	3021-200-2	BENCH FRAME TUBE #2
1	2	3021-200-1	BENCH FRAME TUBE #1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL: X ±.5 X.X ±.2 X.XX ±.1	MACHINED ✓ ANGLES ±.5°	APPROVALS	DATE	BENCH SEAT FRAME ASSEMBLY CHILD FRONTAL IMPACT SLED	
DO NOT SCALE DRAWING		DRAWN Dave Walker	4/12/2013	FRONTAL NUMBER 3021-015	
MATERIAL	HEAT TREAT	CHECKED	ENG	SCALE: 0.375 : 1	REV D
FINISH	APPROVED			SHEET 1 OF 3	

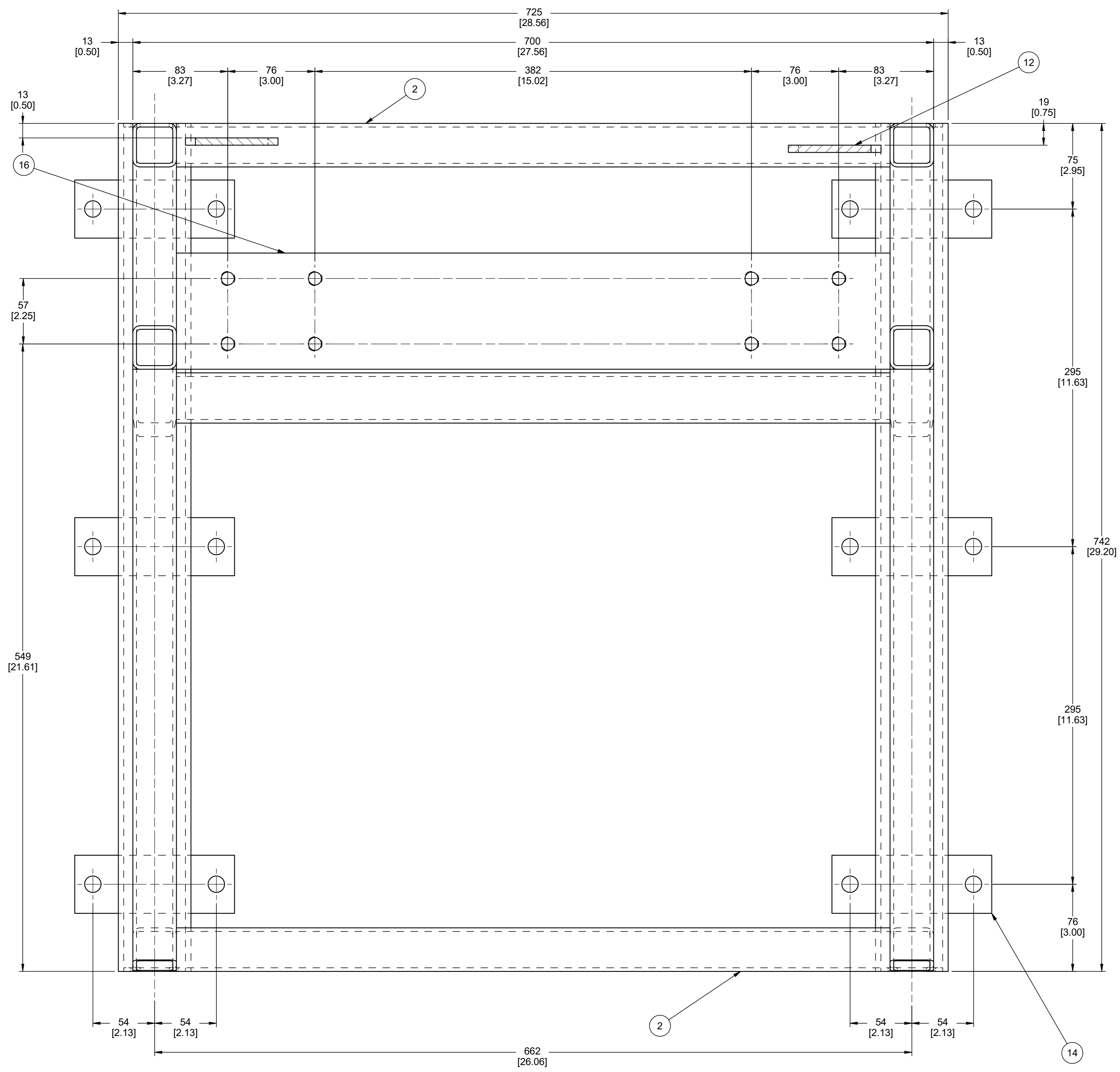


VIEW A-A
FROM SHT. 1

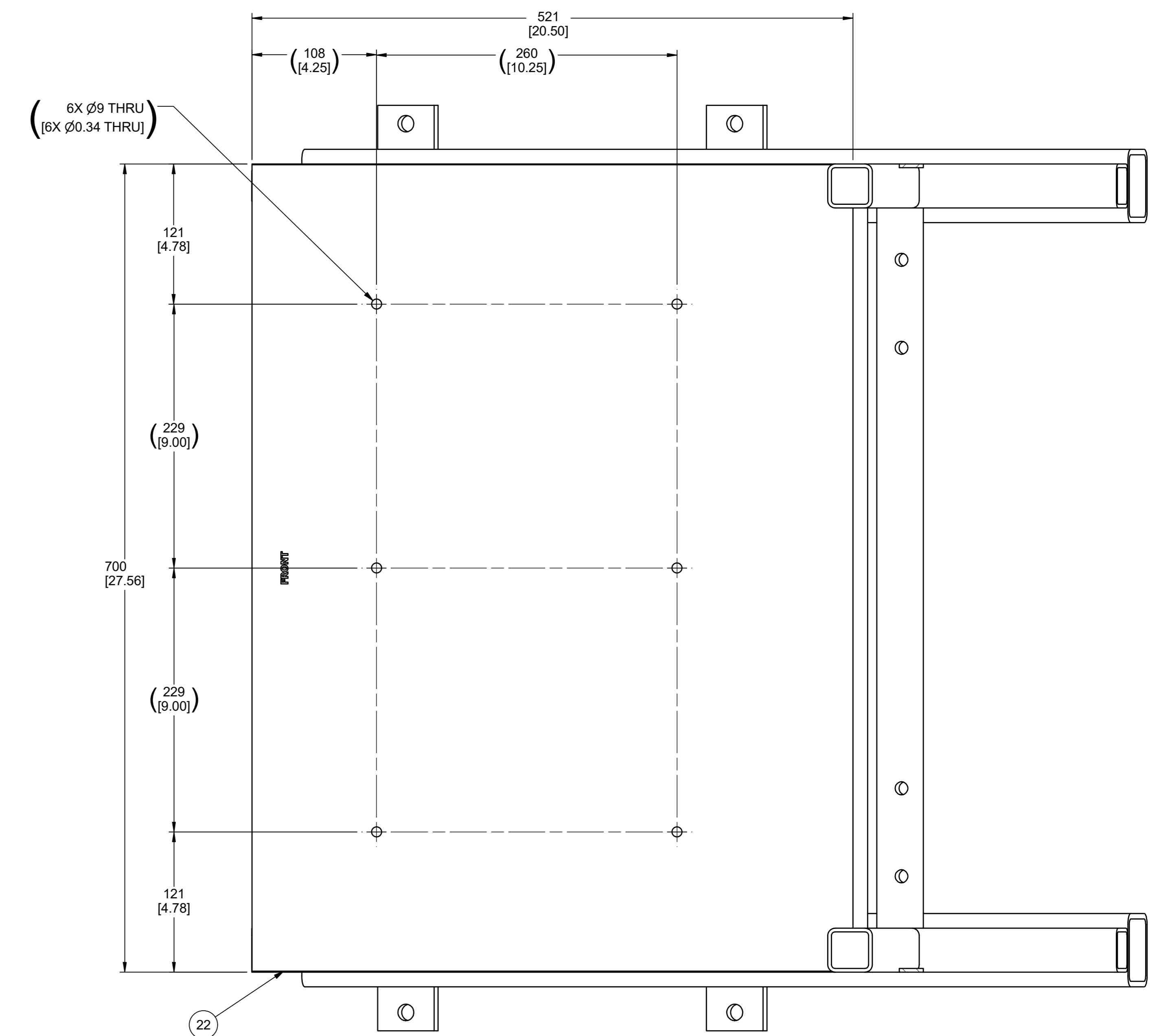


SECTION B-B
FROM SHT. 1

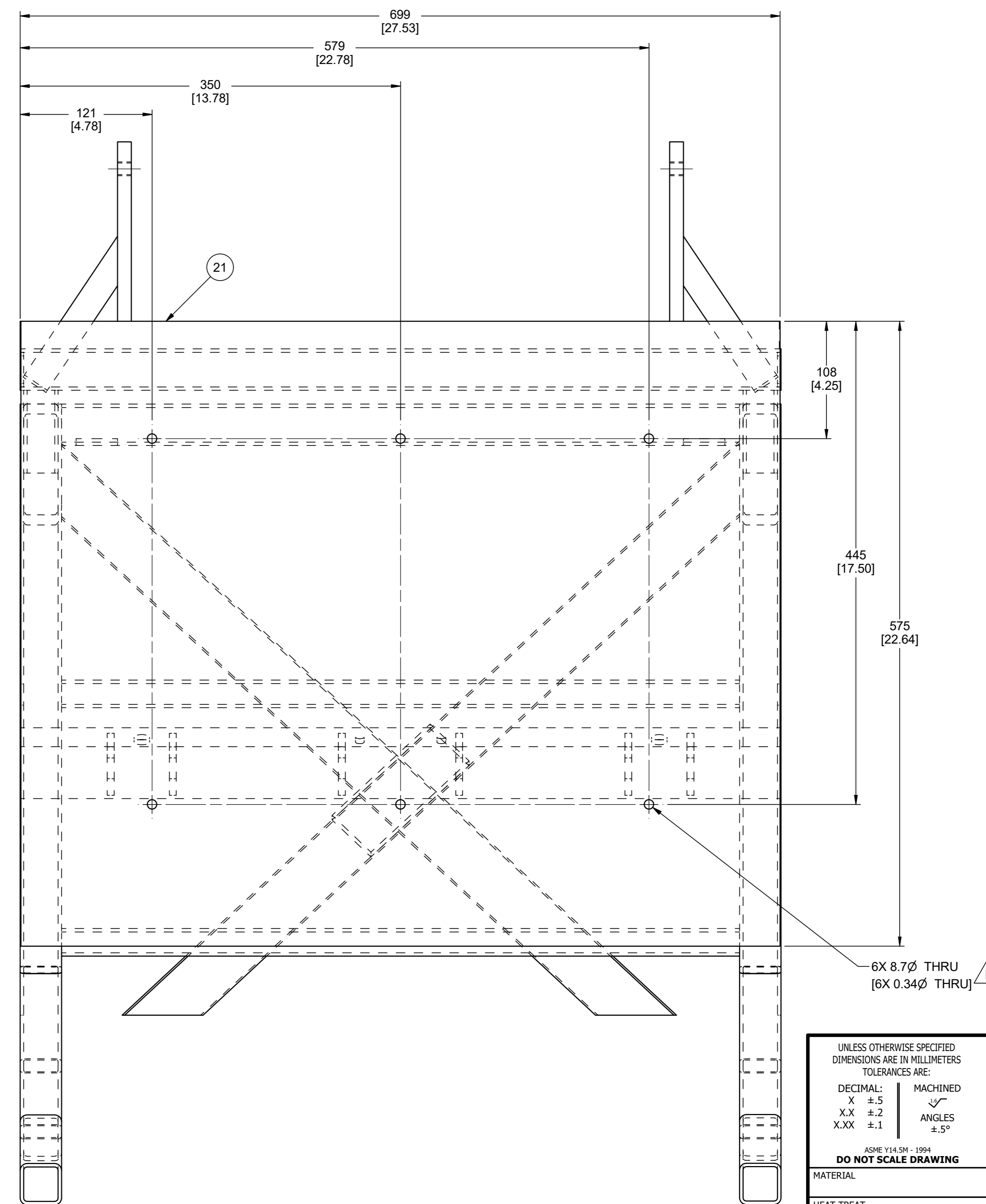
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL: X ±.5 X.X ±.2 X.XX ±.1	MACHINED ✓ ANGLES ±.5°	APPROVALS	DATE	BENCH SEAT FRAME ASSEMBLY	
DO NOT SCALE DRAWING		DRAWN Dave Walker	4/12/2013	CHILD FRONTAL IMPACT SLED	
MATERIAL	CHECKED	ENG		SIZE A0	DRAWING NUMBER 3021-015
FINISH	APPROVED	APPROVED		SCALE: 0.375 : 1	REV D
			SHEET 2 OF 3		




SECTION C-C
FROM SHT. 1



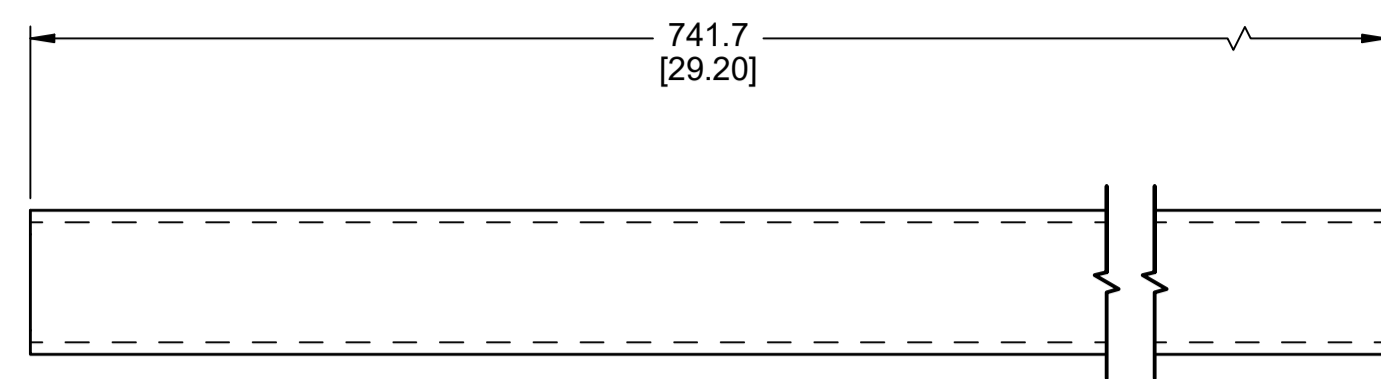
VIEW D-D
SCALE 0.375 : 1
FROM SHT. 1



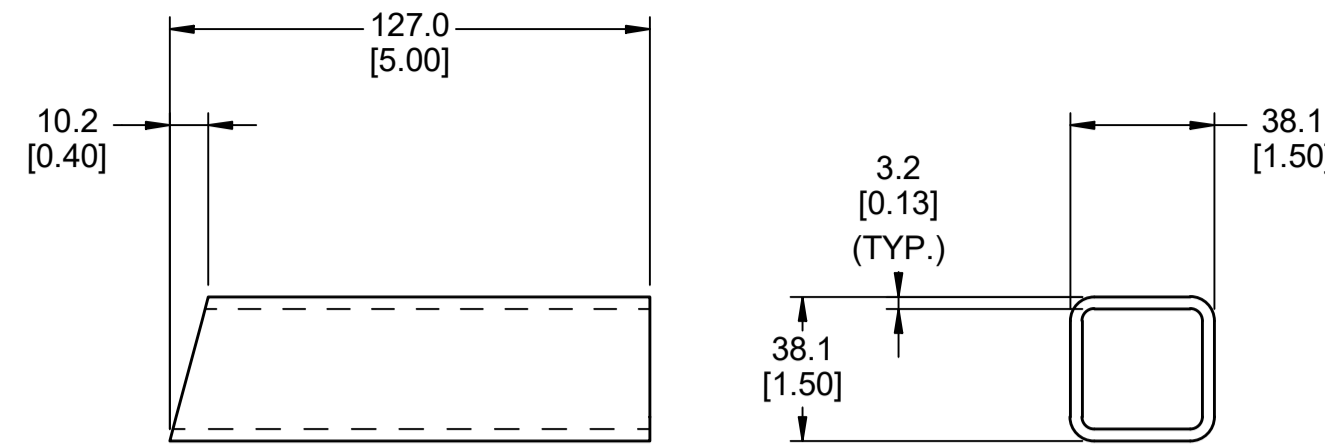
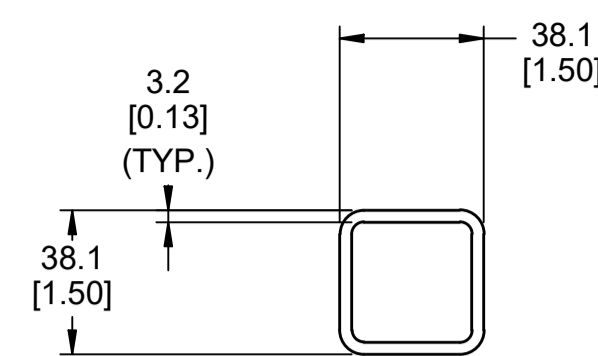
VIEW E-E
SCALE 0.375 : 1
FROM SHT. 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL: X ±.5 X.X ±.2 X.XX ±.1	MACHINED ✓ ANGLES ±.5°	APPROVALS	DATE	BENCH SEAT FRAME ASSEMBLY CHILD FRONTAL IMPACT SLED	
DO NOT SCALE DRAWING		DRAWN Dave Walker	4/12/2013	SIZE A0	
MATERIAL	CHECKED	ENG		DRAWING NUMBER 3021-015	
HEAT TREAT	APPROVED	APPROVED		REV D	
FINISH				SCALE: 0.5 : 1 SHEET 3 OF 3	

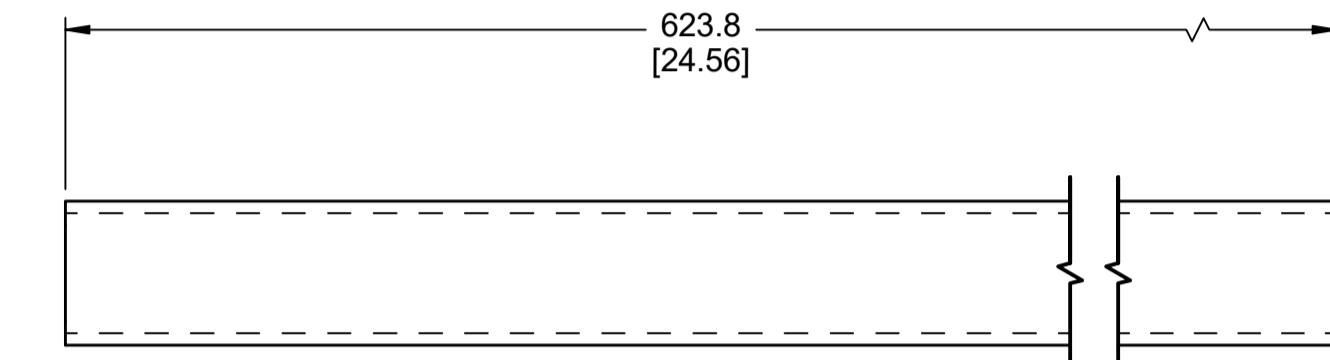
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	ON PART #3021-200-2 DIMENSION 623.8 [24.56], ON PART #3021-200-8 DIMENSION 700.0 [27.56] WAS 698.5 [27.50], AND ON PART #3021-200-10 DIMENSION 623.8 [24.56] WAS 622.3 [24.50]	4/3/2013	DW
	B	ADDED NOTE #1	4/17/2019	DW



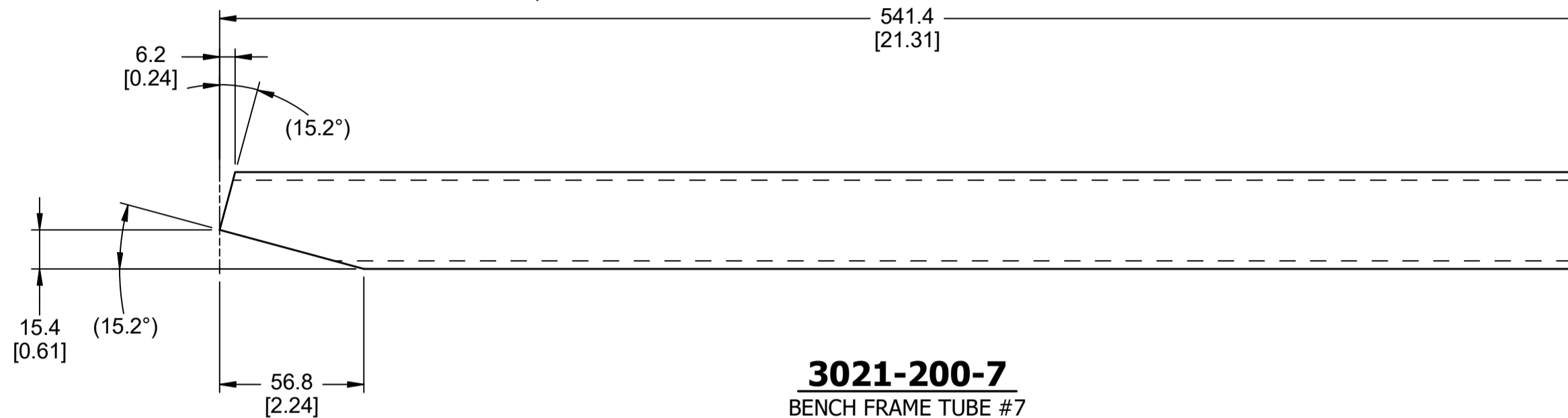
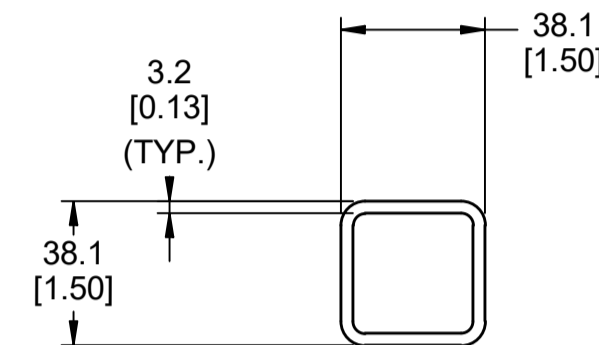
3021-200-1
BENCH FRAME TUBE #1
T.S. 1 1/2 x 1 1/2 x 1/8 x 741.7mm (29.20")
2 REQUIRED
SCALE 1 / 2



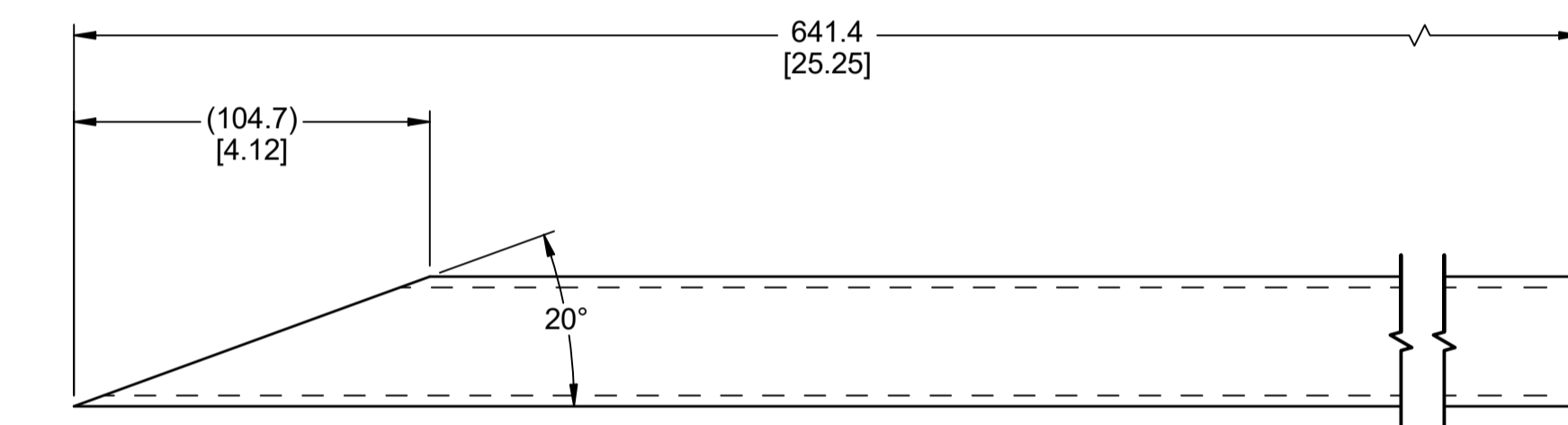
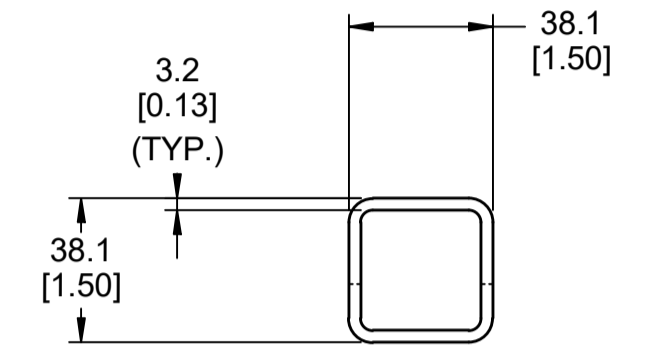
3021-200-6
BENCH FRAME TUBE #6
T.S. 1 1/2 x 1 1/2 x 1/8 x 127.0mm (5.0")
2 REQUIRED
SCALE 1 / 2



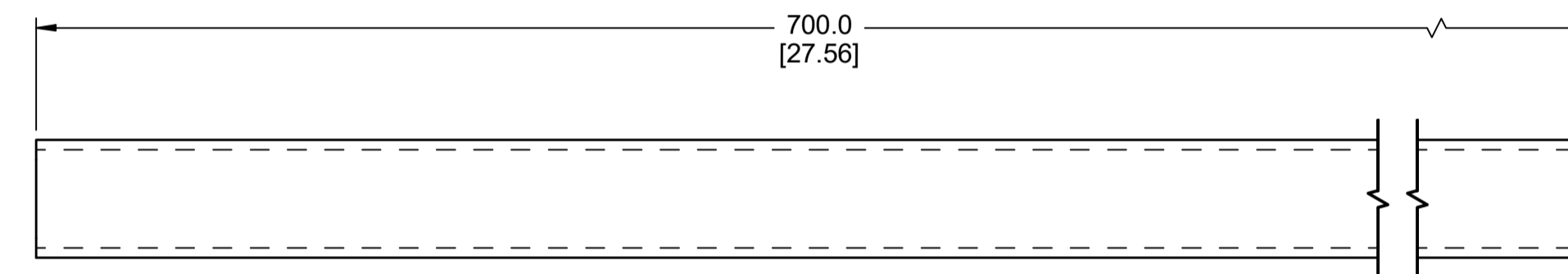
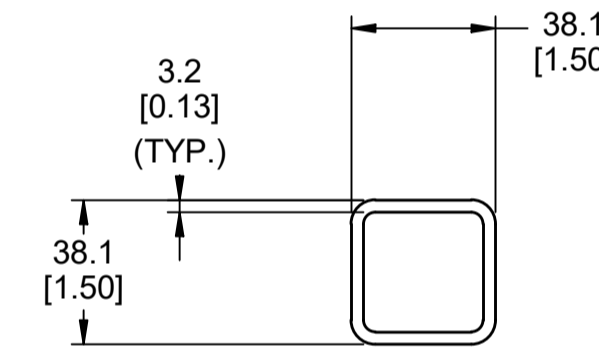
3021-200-2
BENCH FRAME TUBE #2
T.S. 1 1/2 x 1 1/2 x 1/8 x 622.3mm (24.50")
6 REQUIRED
SCALE 1 / 2



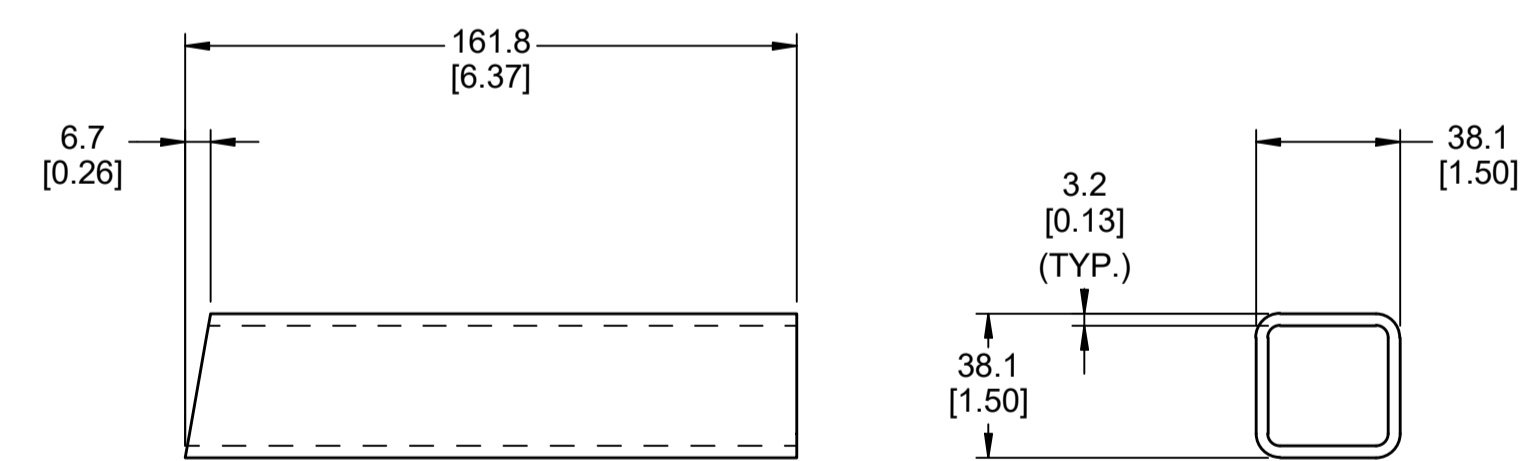
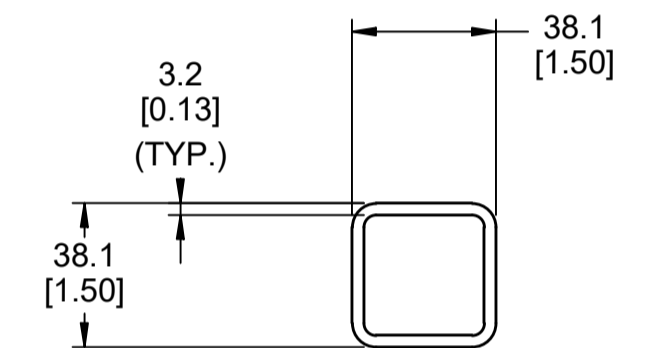
3021-200-7
BENCH FRAME TUBE #7
T.S. 1 1/2 x 1 1/2 x 1/8 x 541.4mm (21.31")
2 REQUIRED
SCALE 1 / 2



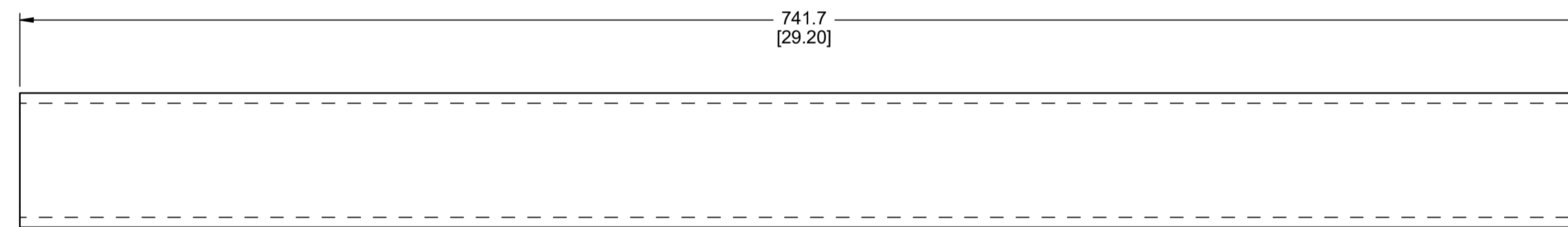
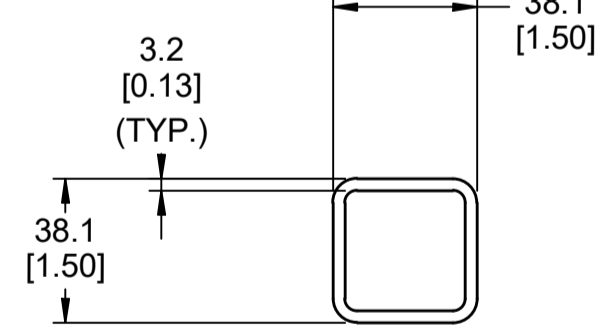
3021-200-3
BENCH FRAME TUBE #3
T.S. 1 1/2 x 1 1/2 x 1/8 x 641.4mm (25.25")
2 REQUIRED
SCALE 1 / 2



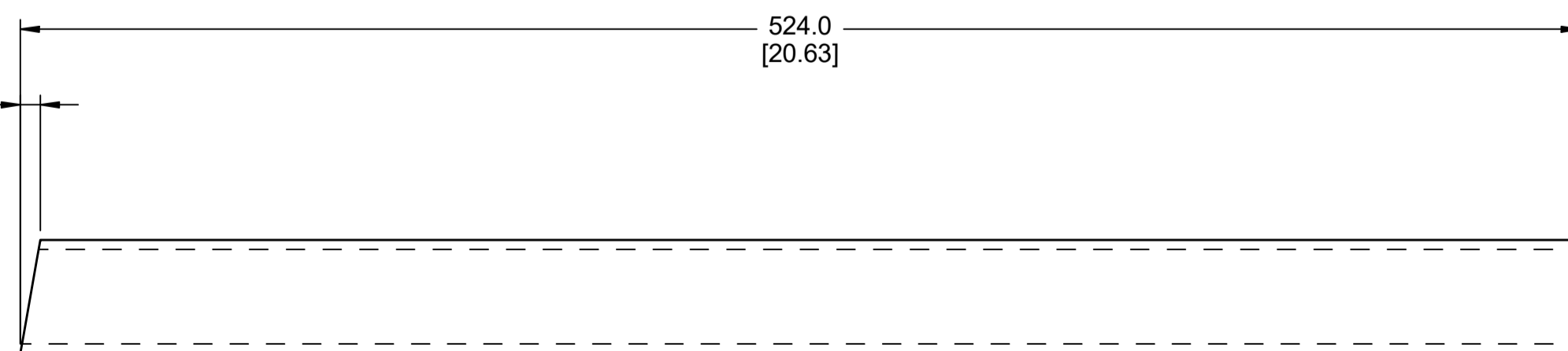
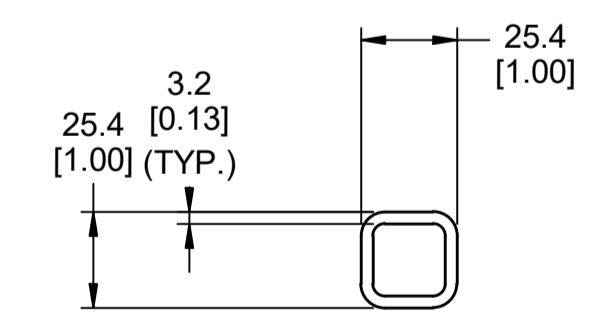
3021-200-8
BENCH FRAME TUBE #8
T.S. 1 1/2 x 1 1/2 x 1/8 x 700.0mm (27.56")
1 REQUIRED
SCALE 1 / 2



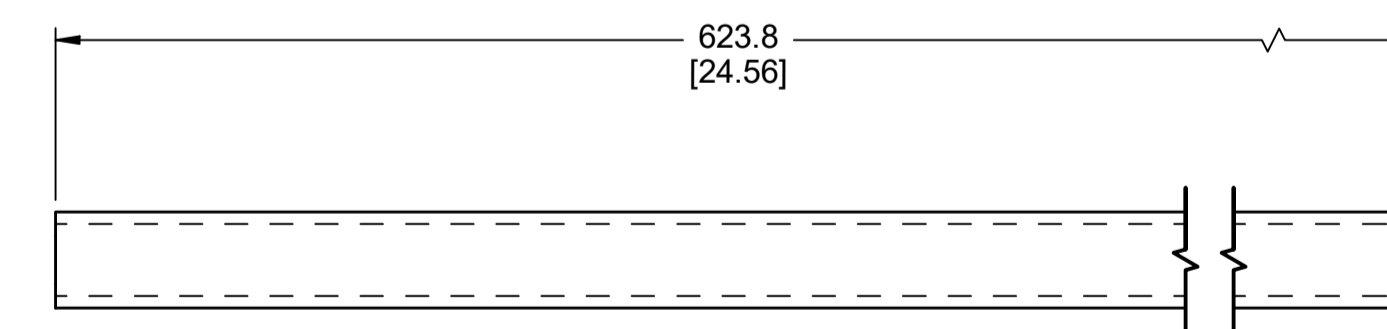
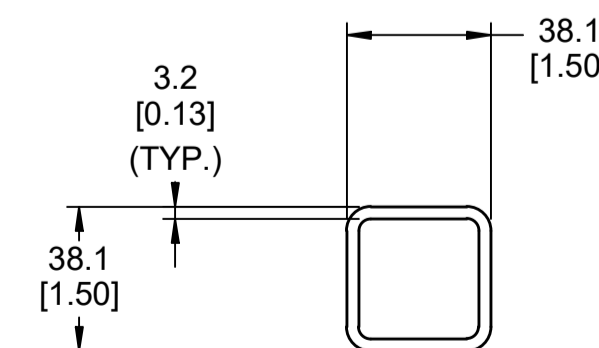
3021-200-4
BENCH FRAME TUBE #4
T.S. 1 1/2 x 1 1/2 x 1/8 x 11.8mm (6.37")
2 REQUIRED
SCALE 1 / 2



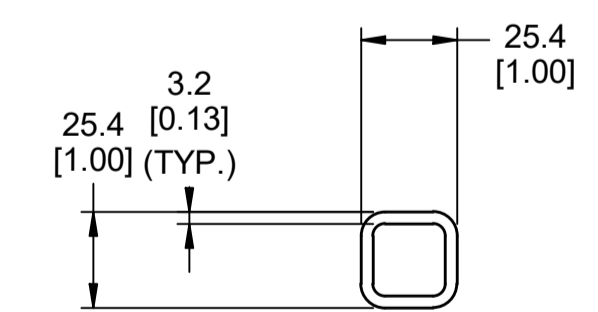
3021-200-9
BENCH FRAME TUBE #9
T.S. 2 1/2 x 2 1/2 x 3/16 x 741.7mm (29.20")
2 REQUIRED
SCALE 1 / 2



3021-200-5
BENCH FRAME TUBE #5
T.S. 1 1/2 x 1 1/2 x 1/8 x 524.0mm (20.63")
2 REQUIRED
SCALE 1 / 2



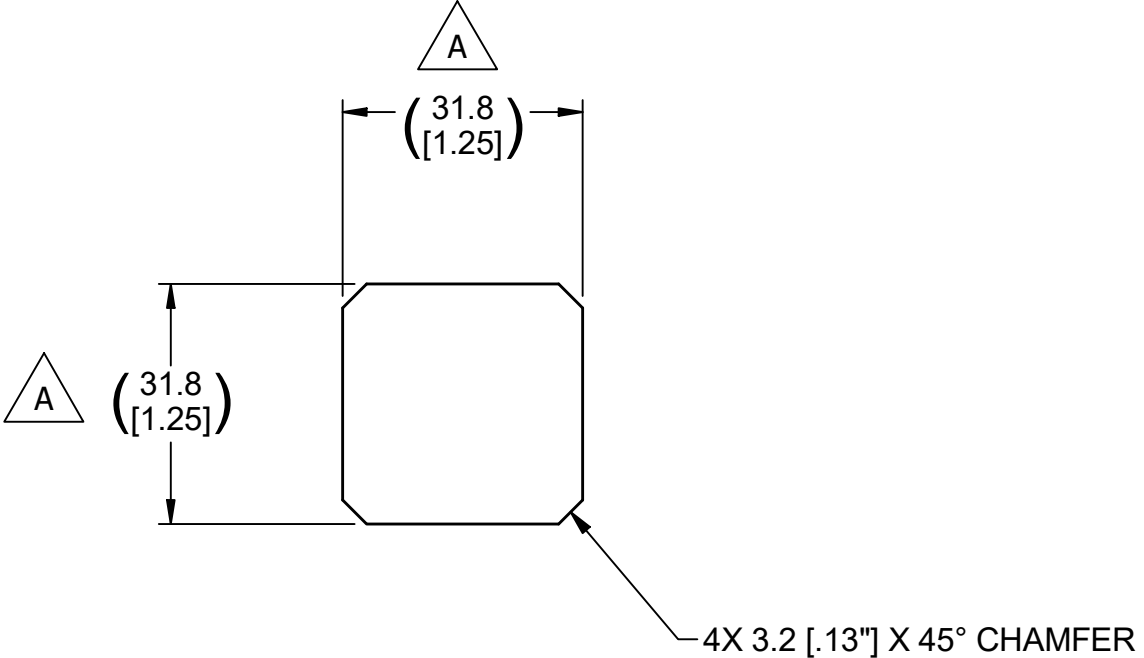
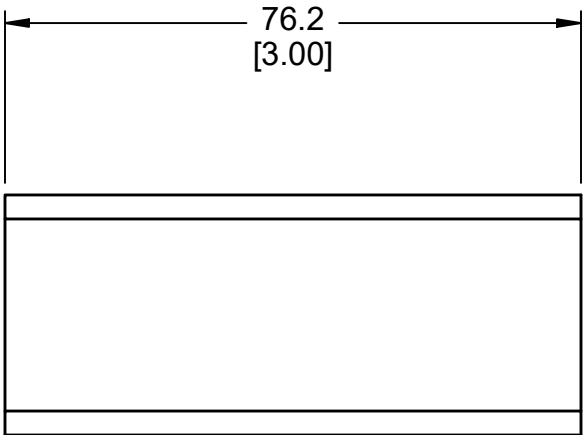
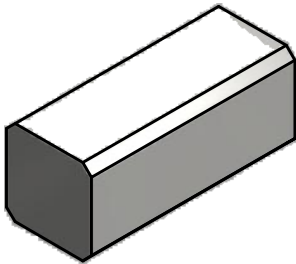
3021-200-10
BENCH FRAME TUBE #10
T.S. 1" x 1" x 1/8" x 622.3mm (24.50")
2 REQUIRED
SCALE 1 / 2



NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL:	MACHINED	APPROVALS	DATE	BENCH FRAME TUBES #1 THRU #10	
X ±.5	✓	DRAWN			
X.X ±.2	✓	DAVE WALKER	4/3/2013	CHILD FRONTAL IMPACT SLED	
X.XX ±.1	✓	CHECKED		SIZE	DRAWING NUMBER
ASME Y14.5M - 1994		ENG		A1	3021-200-1thru10
DO NOT SCALE DRAWING		APPROVED		SCALE:	SHEET
MATERIAL	FINISH			1 / 2	1 OF 1
Steel, Mild					
HEAT TREAT					

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION (31.8 [1.25]) WAS 31.8 [1.25], ADDED NOTE #1	4/17/2019	DW

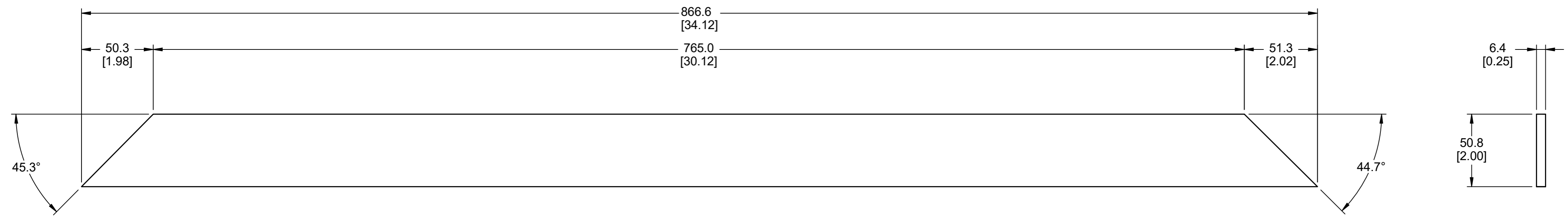
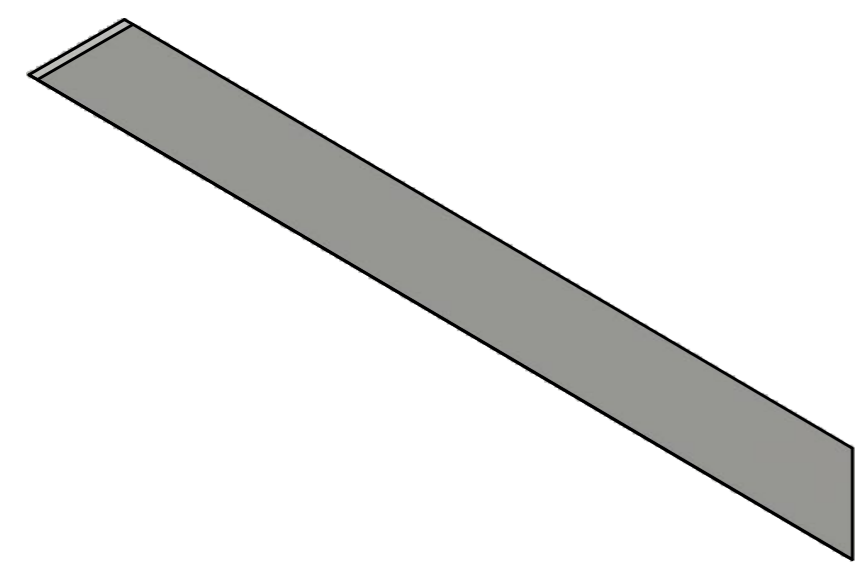


NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 31.8[1.25"] x 31.8[1.25"] x 76.2[3.0"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE 4/4/2013	
MATERIAL: Steel HEAT TREAT: FINISH:	THIRD ANGLE PROJECTION	SIZE: A3 SCALE: 1 : 1	DRAWING NUMBER: 3021-210 SHEET: 1 OF 1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/17/2019	DW

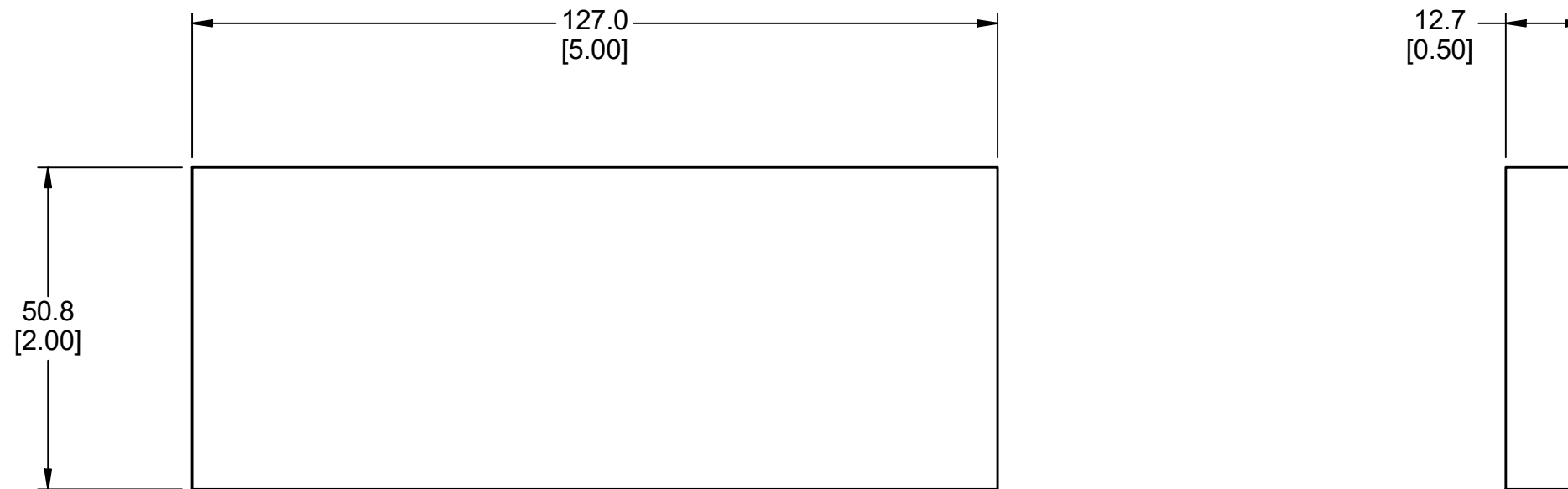
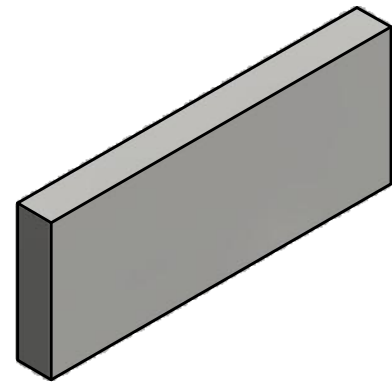


MATERIAL: BAR 50.8[2.0"] x 6.4[0.25"] x 866.6[34.12"]

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLS ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		BENCH CROSS BRACE PLATE CHILD FRONTAL IMPACT SLED	
DRAWN Dave Walker	4/4/2013				
MATERIAL Steel, Mild	CHECKED				
HEAT TREAT	ENG				
FINISH	APPROVED				
		 THIRD ANGLE PROJECTION	SIZE A2 SCALE: 1 / 2	DRAWING NUMBER 3021-205	REV A SHEET 1 OF 1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	6/14/2013	DW



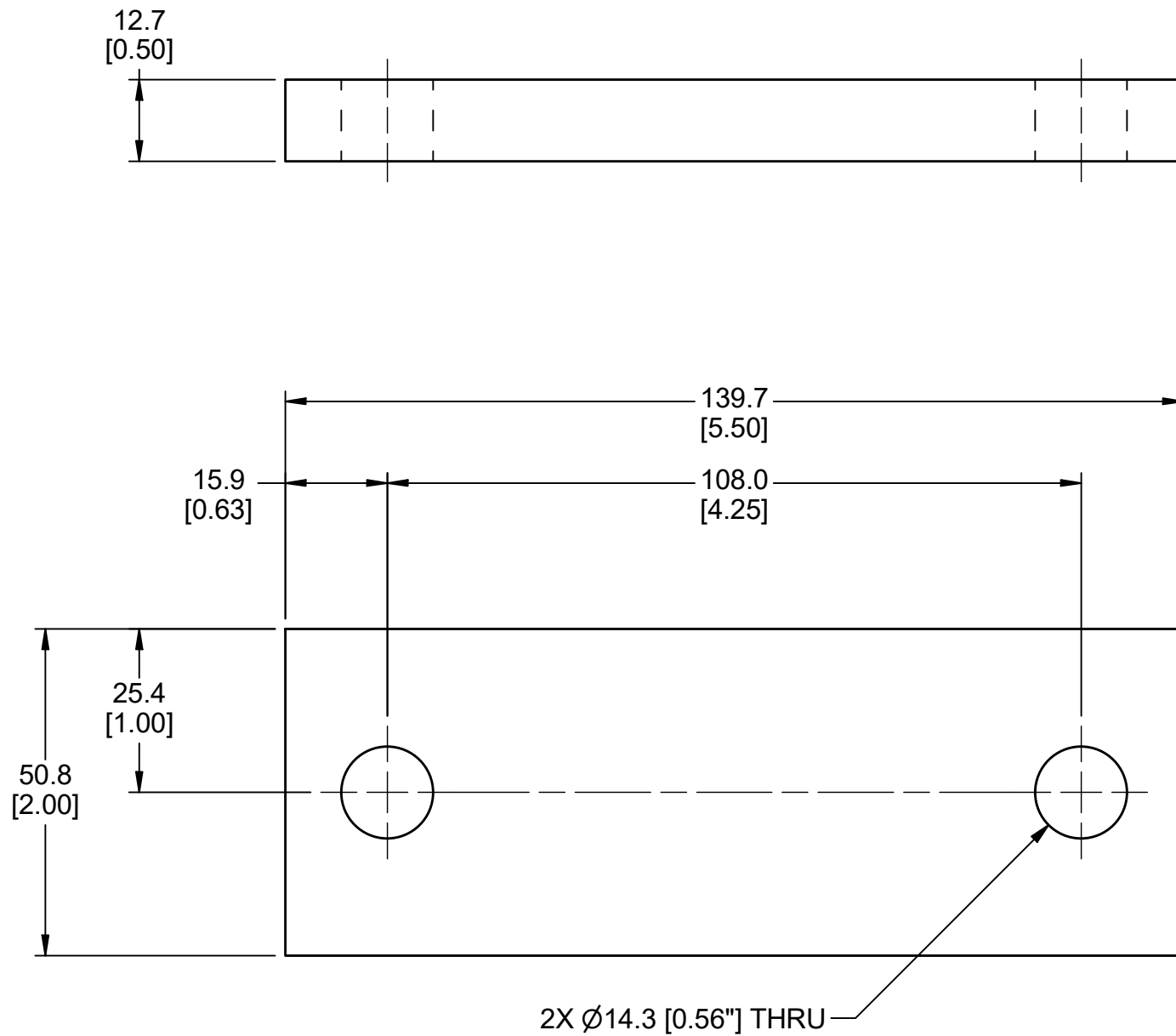
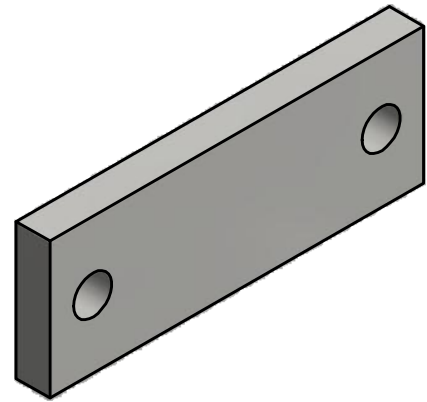
MATERIAL: BAR 50.8mm [2.0"] x 12.7mm [0.5"] x 127.0mm [5.0"]



NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER			
		APPROVALS	DATE	BENCH CROSS BRACE SPACER BAR CHILD FRONTAL IMPACT SLED	
		DRAWN Dave Walker	6/14/2013		
		CHECKED			
MATERIAL Steel, Mild		ENG			SIZE A3
HEAT TREAT		APPROVED		SCALE: 1 : 1	DRAWING NUMBER 3021-206
FINISH				SHEET 1 OF 1	REV A

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/17/2019	DW

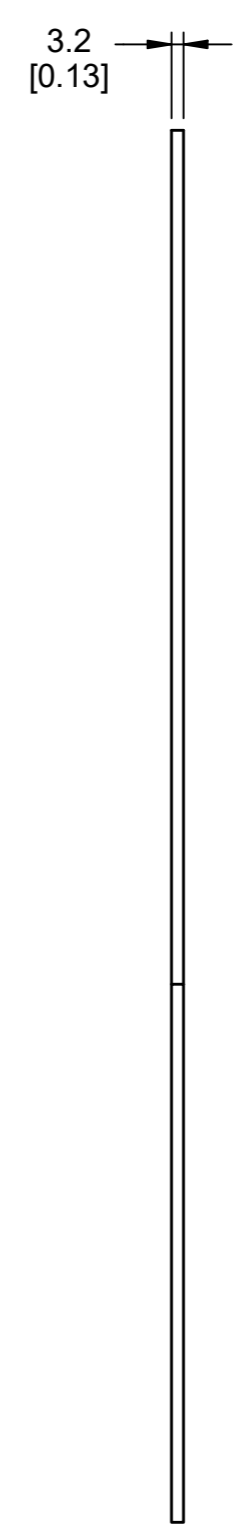
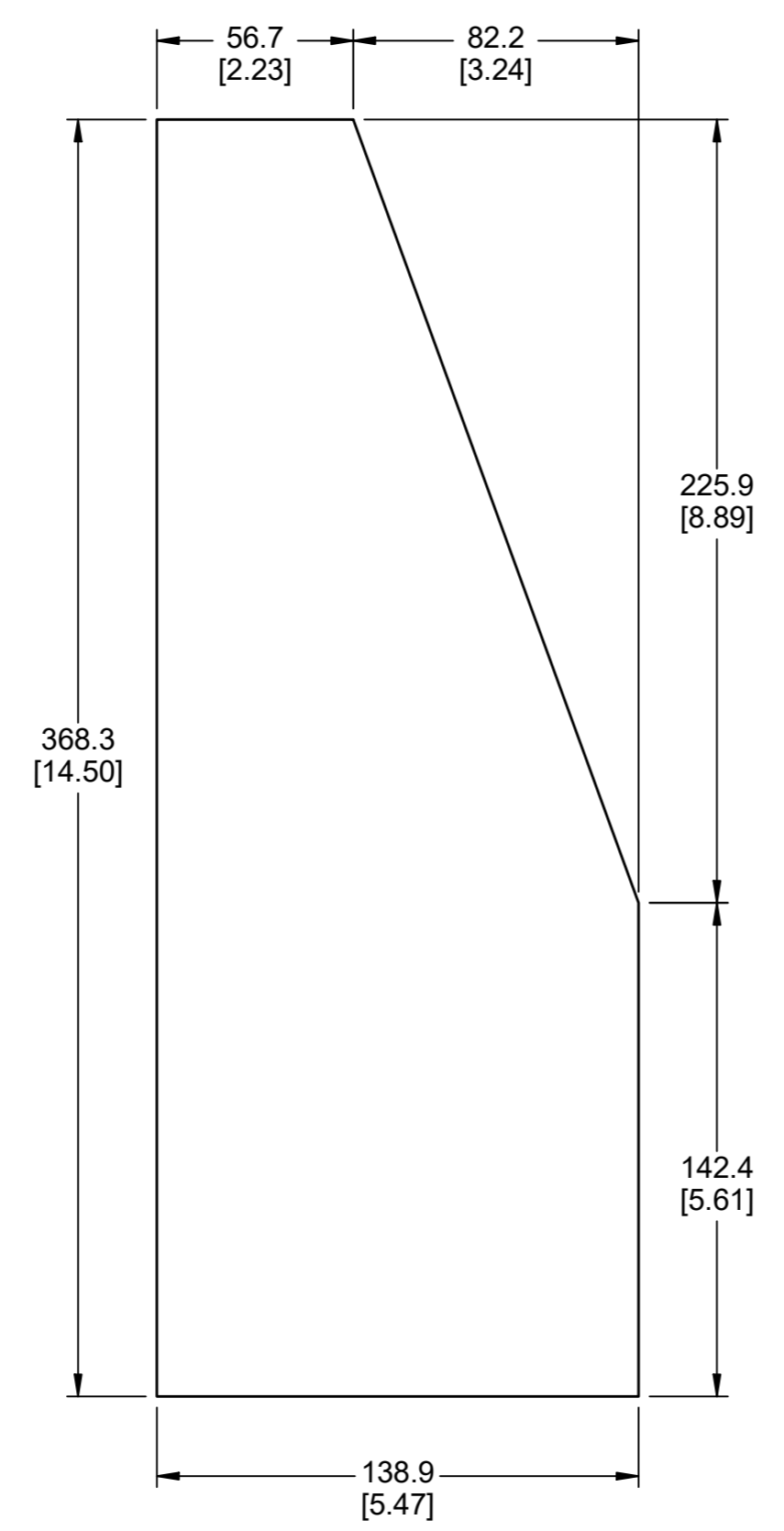
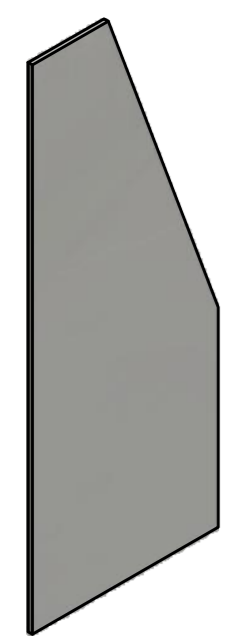


NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$)
 UNLESS OTHERWISE NOTED.

MATERIAL: BAR 50.8[2.0"] x 12.5[0.5"] x 139.7[5.5"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER			
MATERIAL Steel, Mild		APPROVALS		DATE	
HEAT TREAT		DRAWN Dave Walker		4/4/2013	
FINISH		CHECKED			
		ENG			
		APPROVED			
THIRD ANGLE PROJECTION			SIZE A3	DRAWING NUMBER 3021-209	REV A
			SCALE: 1 : 1	SHEET 1 OF 1	

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 368.3 [14.50] WAS 304.8 [12.00] AND 142.4 [5.61] WAS 78.9 [3.11]	4/7/2016	DW
	B	ADDED NOTE #1	4/25/2019	DW



MATERIAL: PL 3.2[0.13"] x 138.9[5.47"] x 368.3[14.5"]

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLER ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		SEAT FRAME GUSSET PLATE CHILD FRONTAL IMPACT SLED	
MATERIAL	CHECKED		SIZE A2 DRAWING NUMBER 3021-255 REV B		
HEAT TREAT	ENG			SCALE: 1 / 2 SHEET 1 OF 1	
FINISH	APPROVED				

8 7 6 5 4 3 2 1

F

E

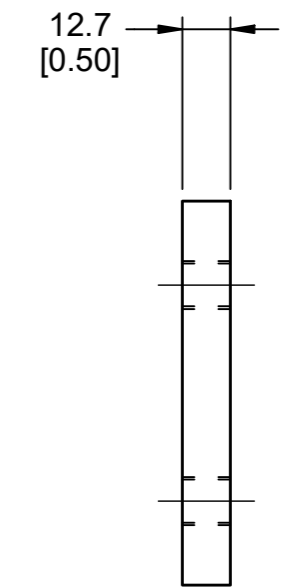
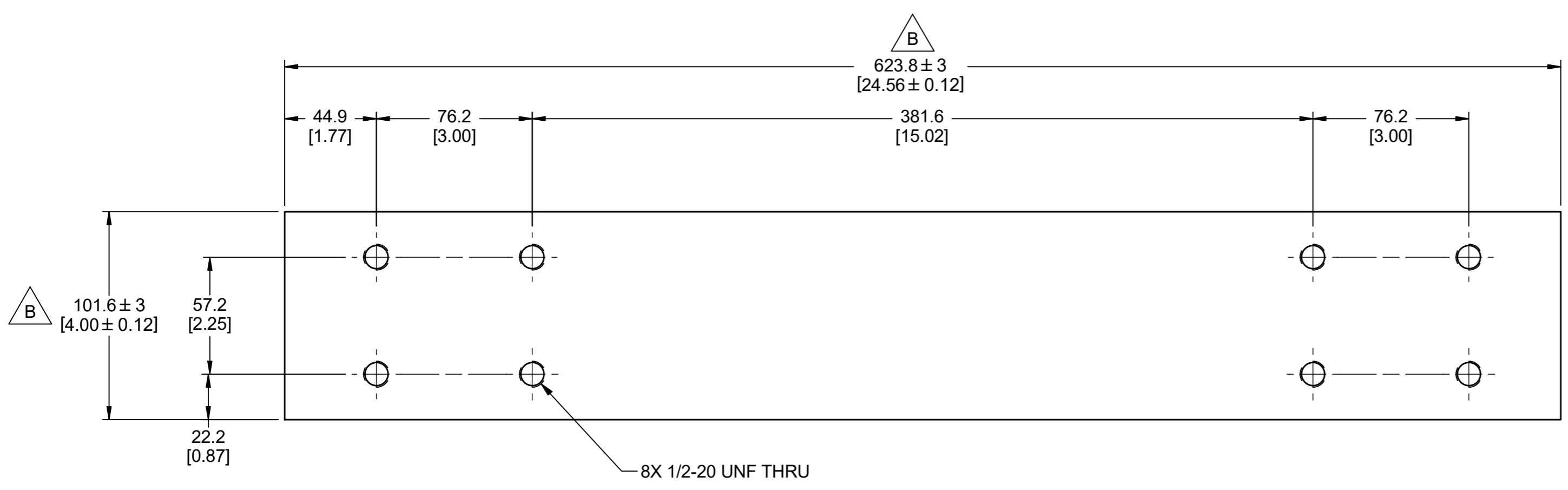
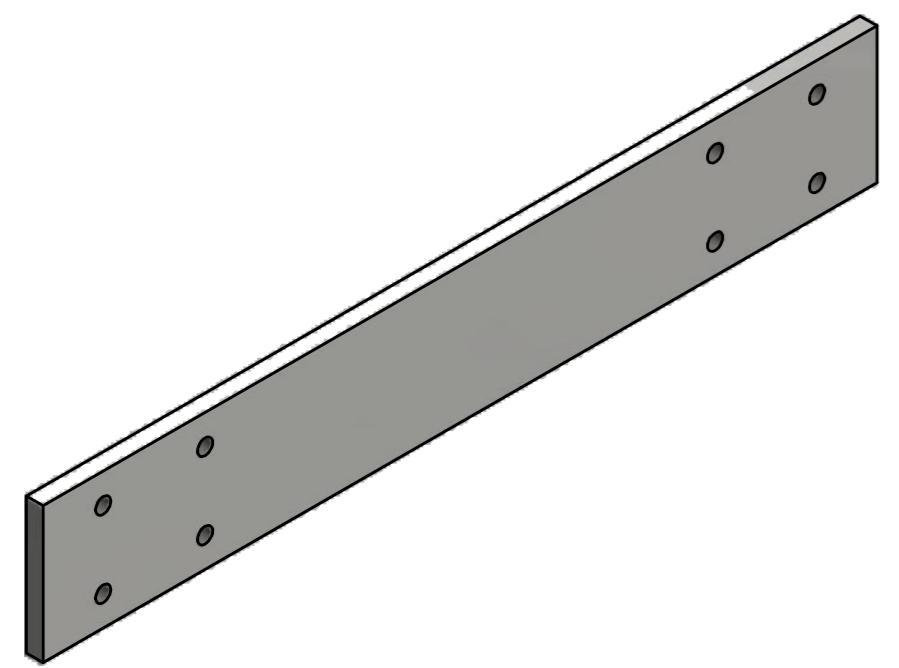
D

C

B

A

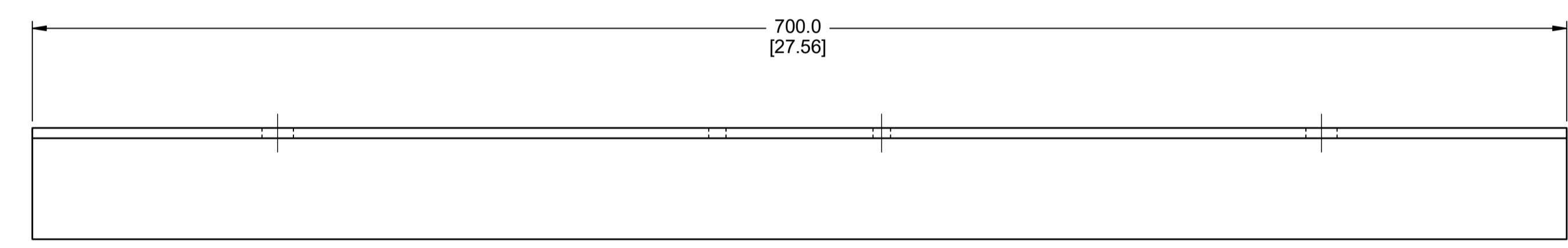
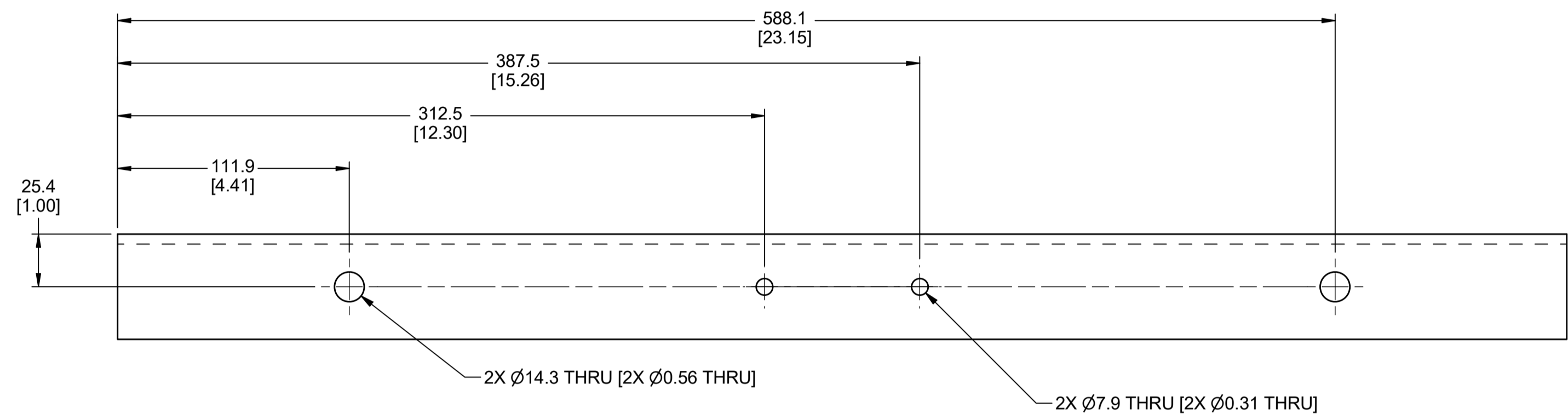
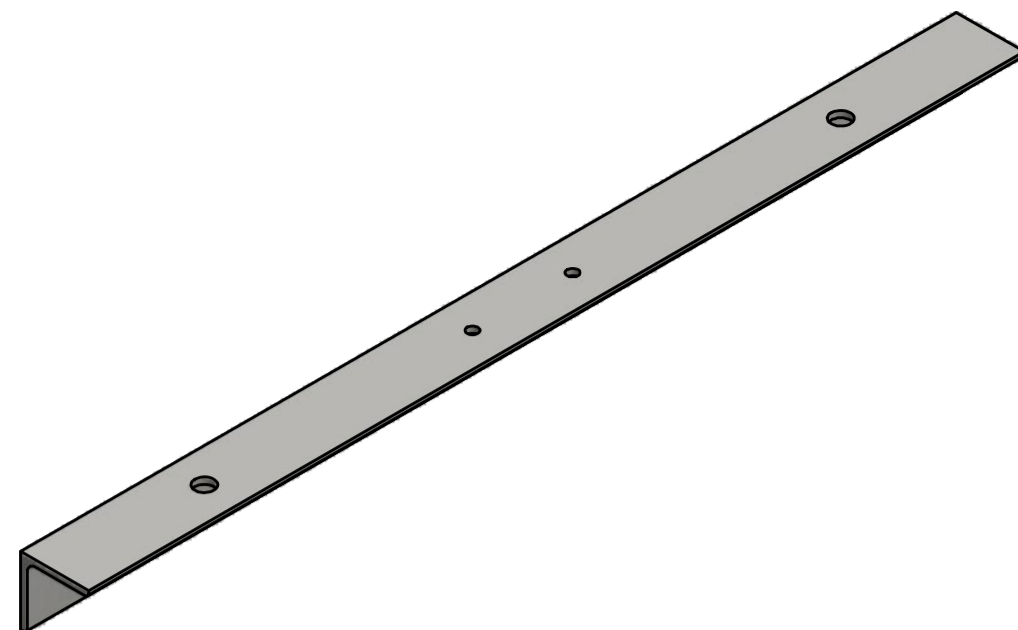
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 623.6 [24.56] WAS 622.3 [24.50], 44.9 [1.77] WAS 44.5 [1.75], AND 381.6 [15.02] WAS 381.0 [15.00]	4/4/2013	DW
	B	DIMENSION 623.8 ±3 [24.56 ±0.12] WAS 623.8 [24.56], 101.6 ±3 [4.00 ±0.12] WAS 101.6 [4.00]	4/18/2019	DW



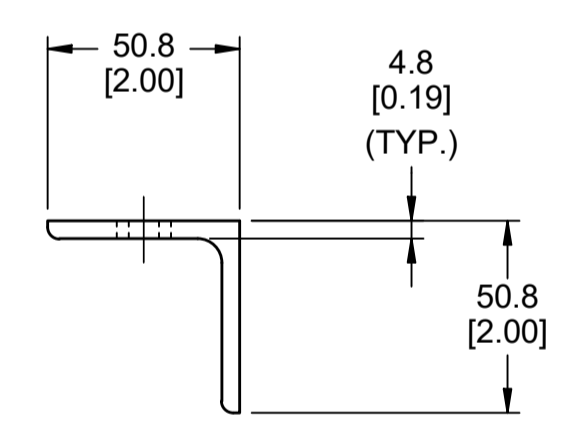
MATERIAL: BAR 101.6[4.0"] x 12.7[0.5"] x 623.6[24.50"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		SEAT BELT ANCHOR PLATE CHILD FRONTAL IMPACT SLED	
DRAWN Dave Walker	4/4/2013	CHECKED			
MATERIAL Steel, Mild	ENG	APPROVED			SIZE A2 SCALE: 1 / 2
HEAT TREAT					DRAWING NUMBER 3021-270 SHEET 1 OF 1
FINISH					REV B

8 7 6 5 4 3 2 1



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 30.8 [1.25] WAS 19.1 [0.75], 111.1 [4.38] WAS 54.0 [2.13], 587.4 [23.13] WAS 644.2 [25.38], 2X Ø7.9 THRU [2X Ø 0.31 THRU] WAS Ø 7.9 [Ø 0.31"] THRU	4/25/2013	DW
	B	DIMENSION 30.4 [1.20] WAS 31.8 [1.25], 588.1 [23.15] WAS 587.4 [23.13], 387.5 [15.26] WAS 386.8 [15.23], 312.5 [12.30] WAS 311.8 [12.27], 111.9 [4.41] WAS 111.1 [4.38], AND 700.0 [27.56] WAS 698.5 [27.50]	6/11/2016	DW
	C	Ø14.3 HOLE 25.4 [1.00] GAGE LINE WAS 30.4 [1.20], AND Ø 7.9 HOLES GAGE LINE WAS 25.7 [1.01]; DRAWING TITLE WAS REAR SHELF MOUNT ANGLE	4/3/2018	DW
	D	ADDED NOTE #1	4/18/2019	DW



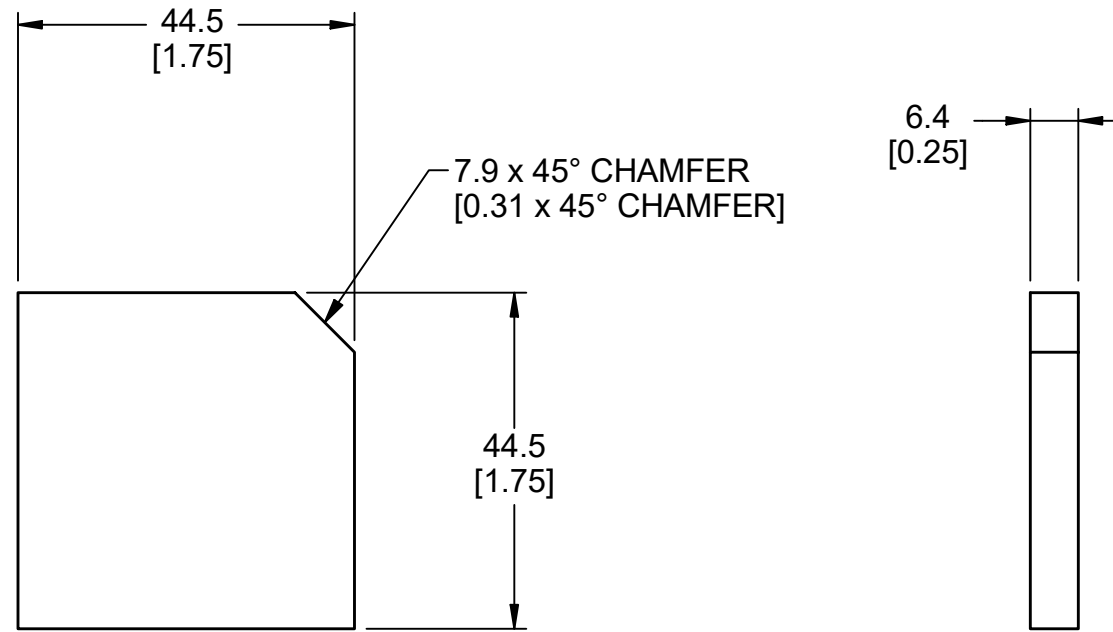
NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12"$) UNLESS OTHERWISE NOTED.

MATERIAL: L 2" x 2" x 3/16" x 700.0mm[22.56"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED ✓ ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 4/25/2013		REAR SHELF MOUNT CHILD FRONTAL IMPACT SLED	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG: APPROVED:	SIZE: A1 SCALE: 1 / 2	DRAWING NUMBER: 3021-850 SHEET: 1 OF 1	REV: D	THIRD ANGLE PROJECTION

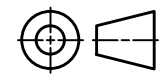


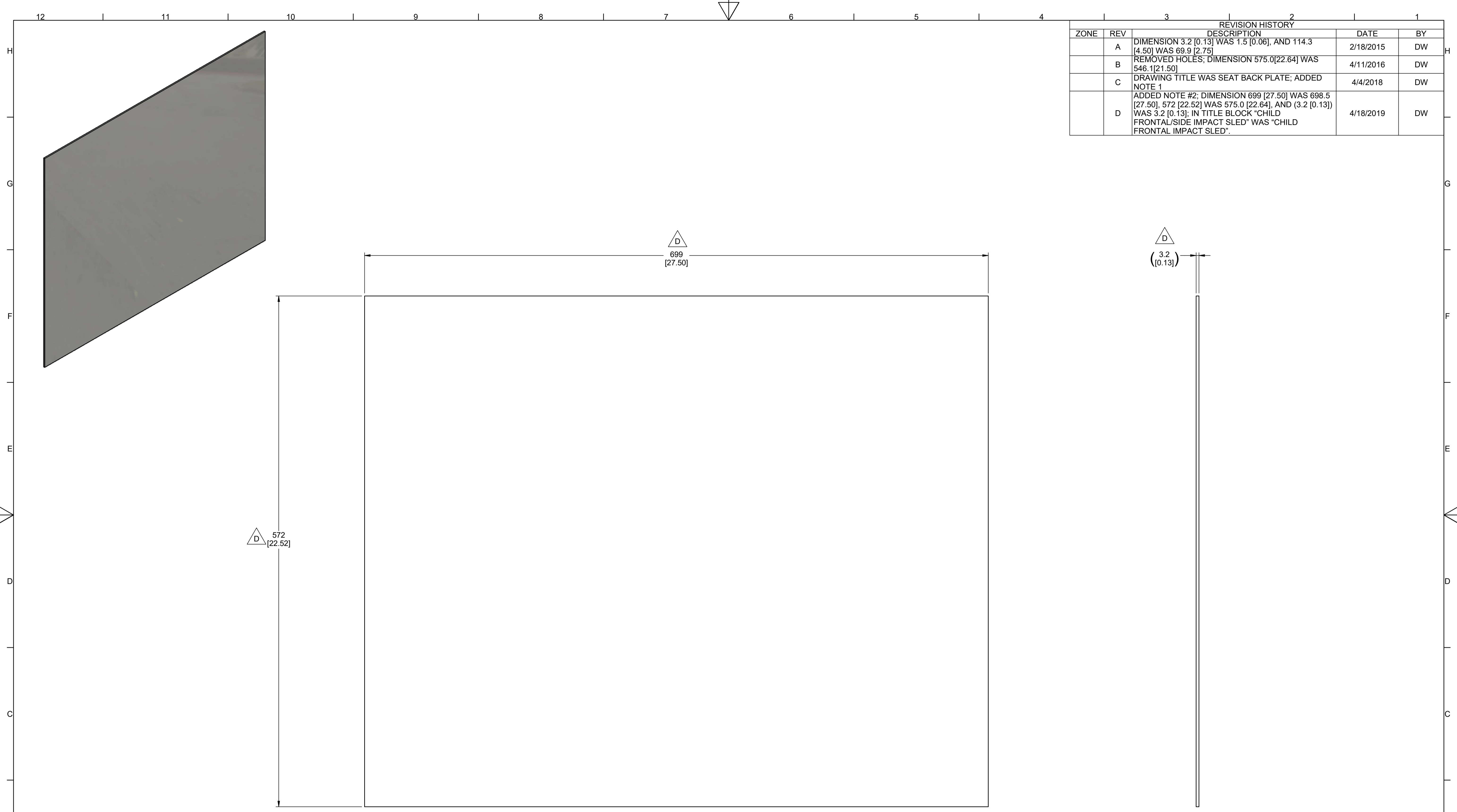
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	SQUARED OFF PLATE, DIMENSION 44.5 [1.75] WAS 46.0 [1.81], AND CHAMFER DIMENSION WAS 6.4 [0.25] TYP.	4/25/2013	DW
	B	ADDED NOTE #1	4/18/2019	DW



NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 44.5[1.75"] x 6.4[0.25"] x 44.5[1.75"]


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
MATERIAL: Steel, Mild		APPROVALS	DATE	REAR SHELF MOUNT - ANGLE GUSSET	
HEAT TREAT		DRAWN: Dave Walker	4/25/2013	CHILD FRONTAL IMPACT SLED	
FINISH		CHECKED		 THIRD ANGLE PROJECTION	SIZE: A3 SCALE: 1:1
		ENG		DRAWING NUMBER: 3021-851	
		APPROVED		REV: B	
				SHEET: 1 OF 1	

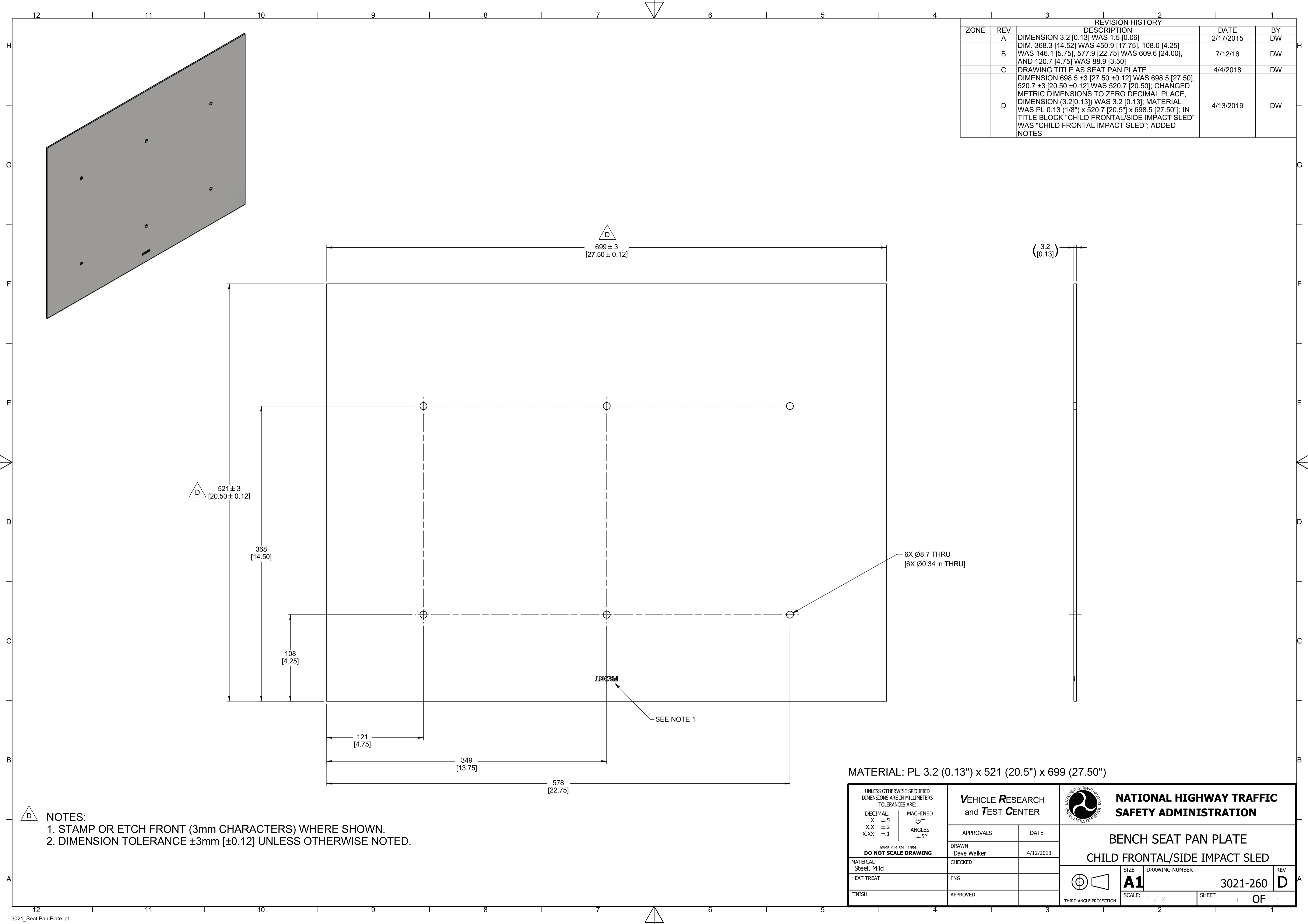


NOTES:

1. BENCH SEAT BACK PLATE, 3021-265, MOUNTING HOLES TO BE DRILLED AFTER BENCH ASSEMBLY, REFERENCE DRAWING 3021-015.
2. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: PL 3.2 [0.13"] x 575 [22.64"] x 699 [27.50"]

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER APPROVALS: _____ DATE: 4/12/2013 DRAWN: Dave Walker CHECKED: _____ ENG: _____ APPROVED: _____	 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	BENCH SEAT BACK PLATE CHILD FRONTAL/SIDE IMPACT SLED		
			MATERIAL: Steel, Mild HEAT TREAT: _____ FINISH: _____	SIZE: A1 SCALE: 1 / 2	DRAWING NUMBER: 3021-265 SHEET: 1 OF 1



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 3.2 [0.13] WAS 1.5 [0.06]	2/17/2015	DW
	B	DIM. 368.3 [14.52] WAS 450.9 [17.75], 108.0 [4.25] WAS 146.1 [5.75], 577.9 [22.75] WAS 609.6 [24.00], AND 120.7 [4.75] WAS 88.9 [3.50]	7/12/16	DW
	C	DRAWING TITLE AS SEAT PAN PLATE	4/4/2018	DW
	D	DIMENSION 698.5 ±3 [27.50 ±0.12] WAS 698.5 [27.50], 520.7 ±3 [20.50 ±0.12] WAS 520.7 [20.50]; CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE, DIMENSION (3.2[0.13]) WAS 3.2 [0.13]; MATERIAL WAS PL 0.13 (1/8") x 520.7 [20.5"] x 698.5 [27.50"]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED NOTES	4/13/2019	DW

△ D 521 ± 3
[20.50 ± 0.12]

△ D 699 ± 3
[27.50 ± 0.12]

(3.2)
[0.13]

6X Ø8.7 THRU
[6X Ø0.34 in THRU]

UNO

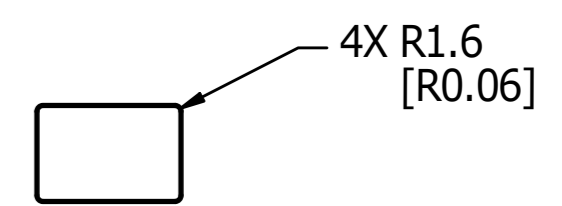
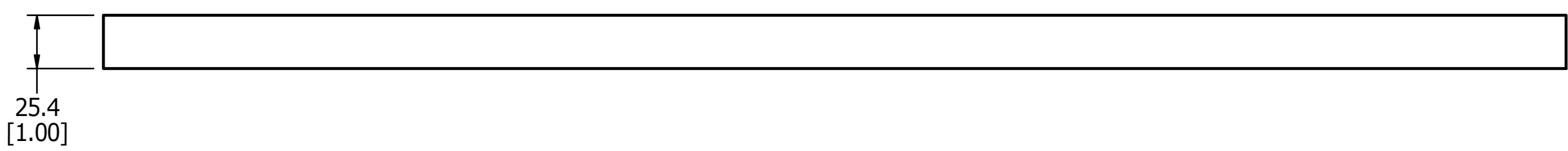
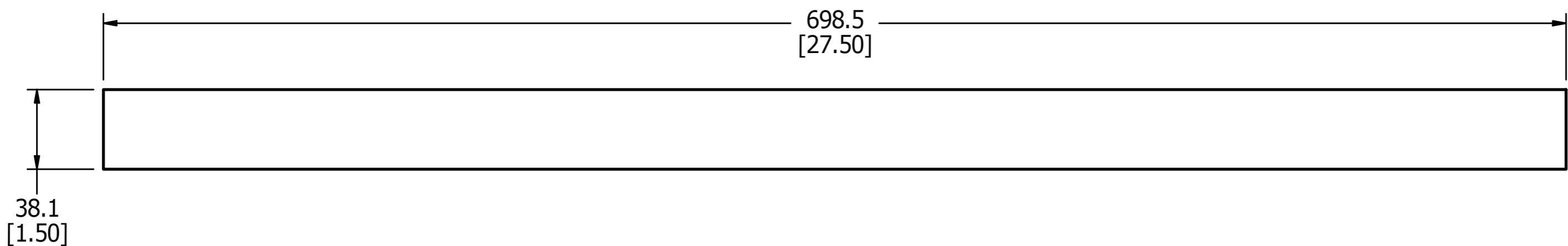
SEE NOTE 1

- △ D NOTES:
 1. STAMP OR ETCH FRONT (3mm CHARACTERS) WHERE SHOWN.
 2. DIMENSION TOLERANCE ±3mm [±0.12] UNLESS OTHERWISE NOTED.

MATERIAL: PL 3.2 (0.13") x 521 (20.5") x 699 (27.50")

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLES ±.5° <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 4/12/2013	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	APPROVED:	SIZE: A1 SCALE: 1 / 2 SHEET: 1 OF 1	DRAWING NUMBER: 3021-260 REV: D

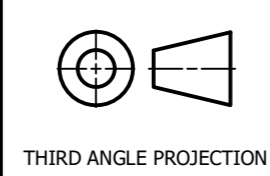
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1	4/5/2016	DW



MATERIAL: BAR 1 1/2" x 1" x 698.5 mm [27 1/2"]

NOTES:
1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12")
UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS	DATE	
MATERIAL Steel, Mild	DRAWN Dave Walker	4/5/2016	BENCH SEAT FRAME TOP BAR CHILD FRONTAL IMPACT SLED
HEAT TREAT	CHECKED		
FINISH	ENG		SIZE A2 DRAWING NUMBER 3021-201 REV A
	APPROVED		SCALE: 1 / 2 SHEET 1 OF 1



4

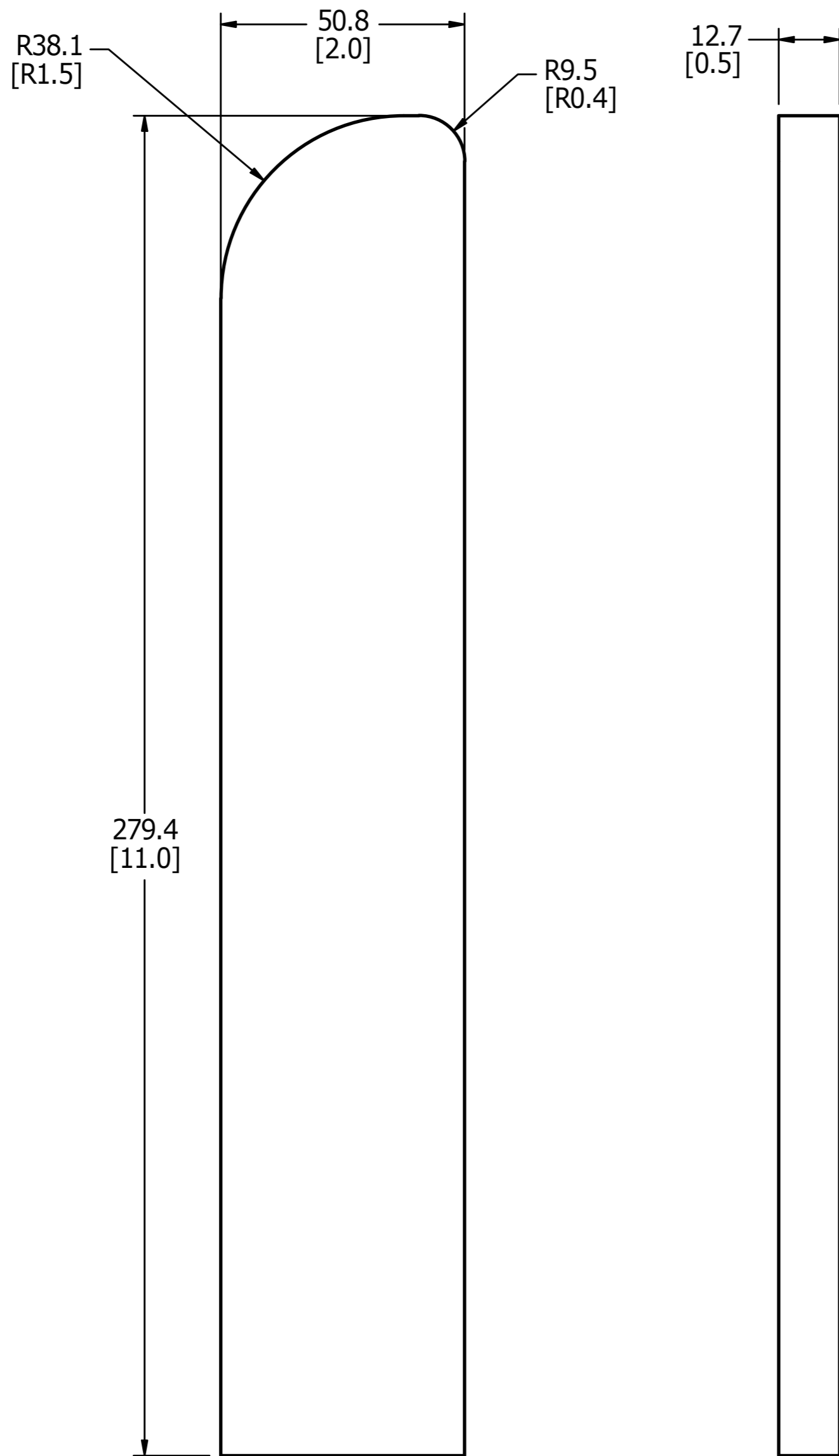
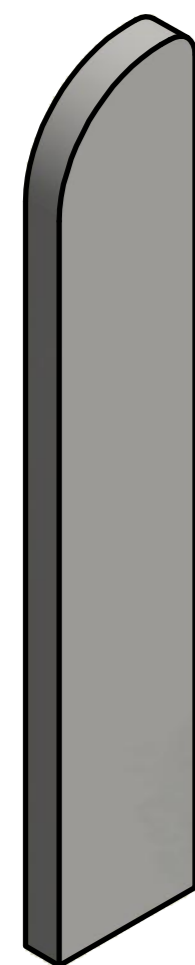
3

2

1

REVISION HISTORY

ECO	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING UPPER ANCHOR	4/4/2018	DW
	B	ADDED NOTE #1	4/18/2019	DW



MATERIAL: BAR 50.8 (2.0") x 12.7 (0.5") x 254.0 (10.00")

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12")
 UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ✓ ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		D-RING ANCHOR CHILD FRONTAL IMPACT SLED	
MATERIAL Steel, Mild	DRAWN Dave Walker	4/7/2016	SIZE A2		
HEAT TREAT	CHECKED		SCALE: 1 : 1	SHEET 1 OF 1	
FINISH	ENG		THIRD ANGLE PROJECTION		
	APPROVED				

4

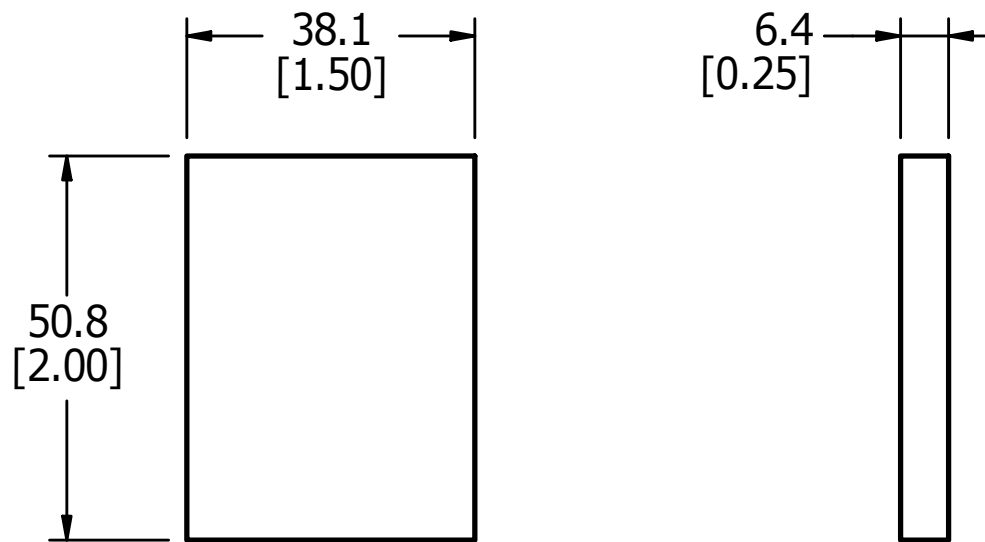
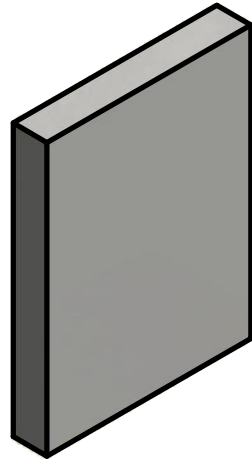
3

2

1

REVISION HISTORY

ZONE	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING UPPER ANCHOR GUSSET	4/7/2016	DW
	B	ADDED NOTE #1	4/18/2019	DW



NOTES:

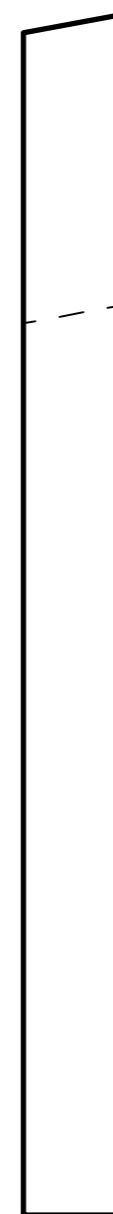
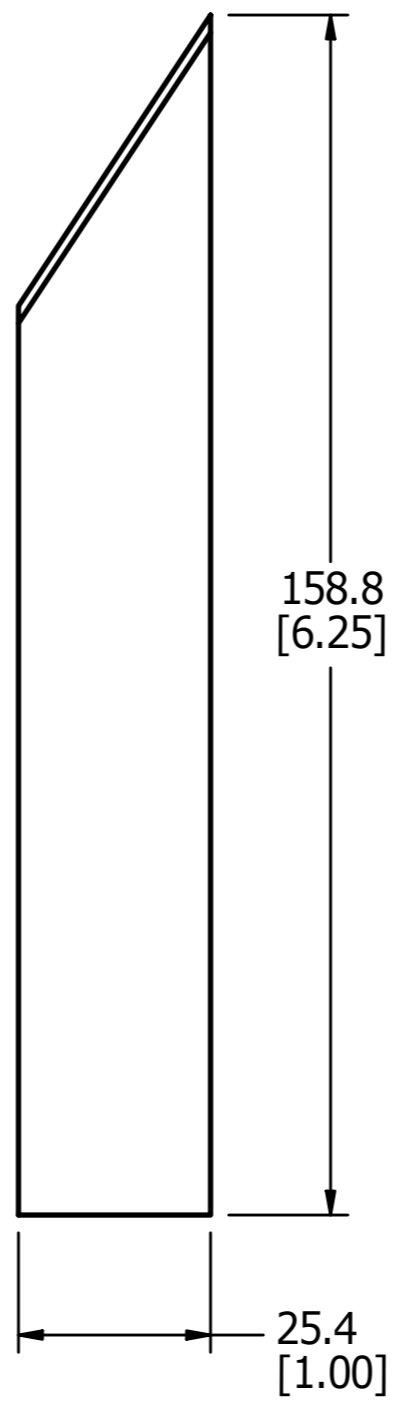
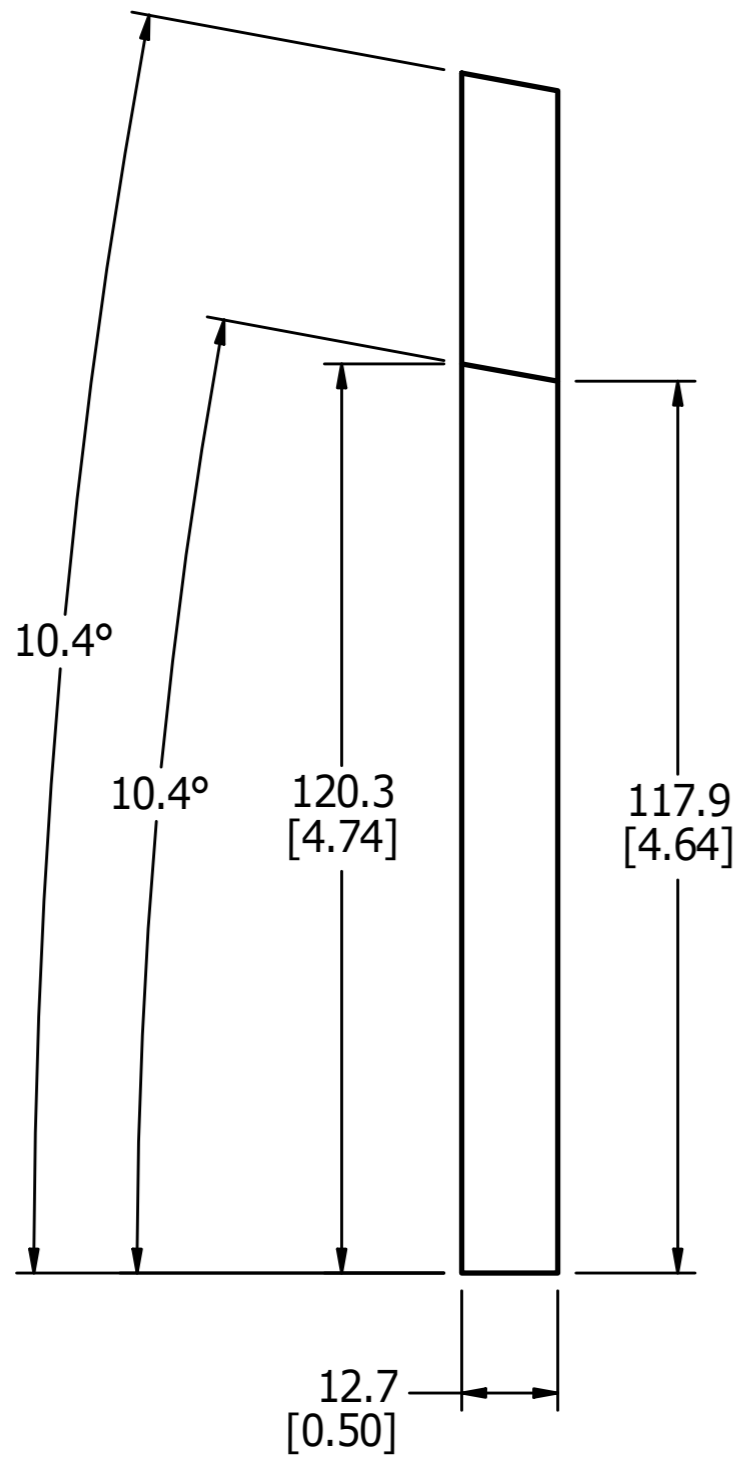
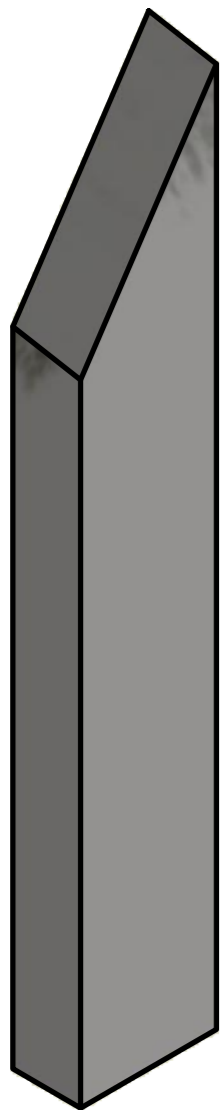


1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 38.1 [1.5"] x 6.4 [0.25"] x 50.8 [2.00"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED 1/6 ANGLE $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION		
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 4/7/2016		D-RING ANCHOR GUSSET CHILD FRONTAL IMPACT SLED		SIZE A3
MATERIAL Steel, Mild HEAT TREAT FINISH				SCALE: 1 : 1	SHEET 1 OF 1	

REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING UPPER ANCHOR BRACE BAR - LEFT	4/4/2018	DW
	B	ADDED NOTE #1	4/18/2019	DW

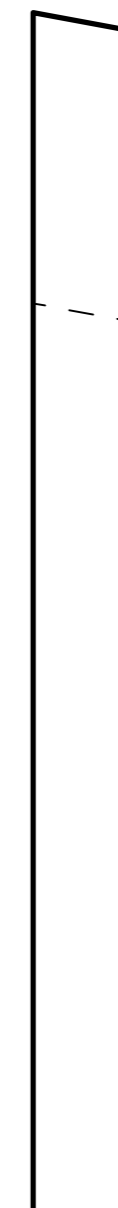
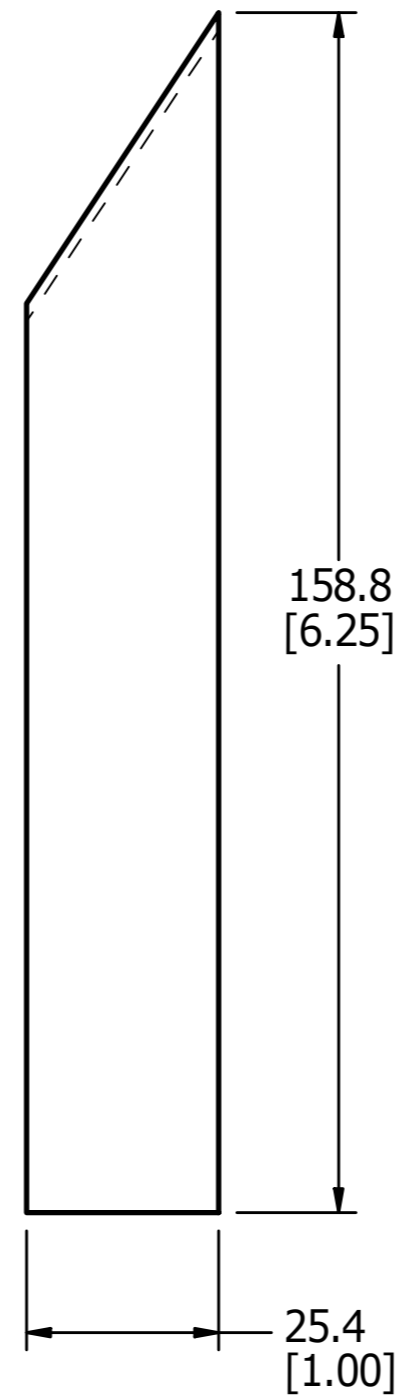
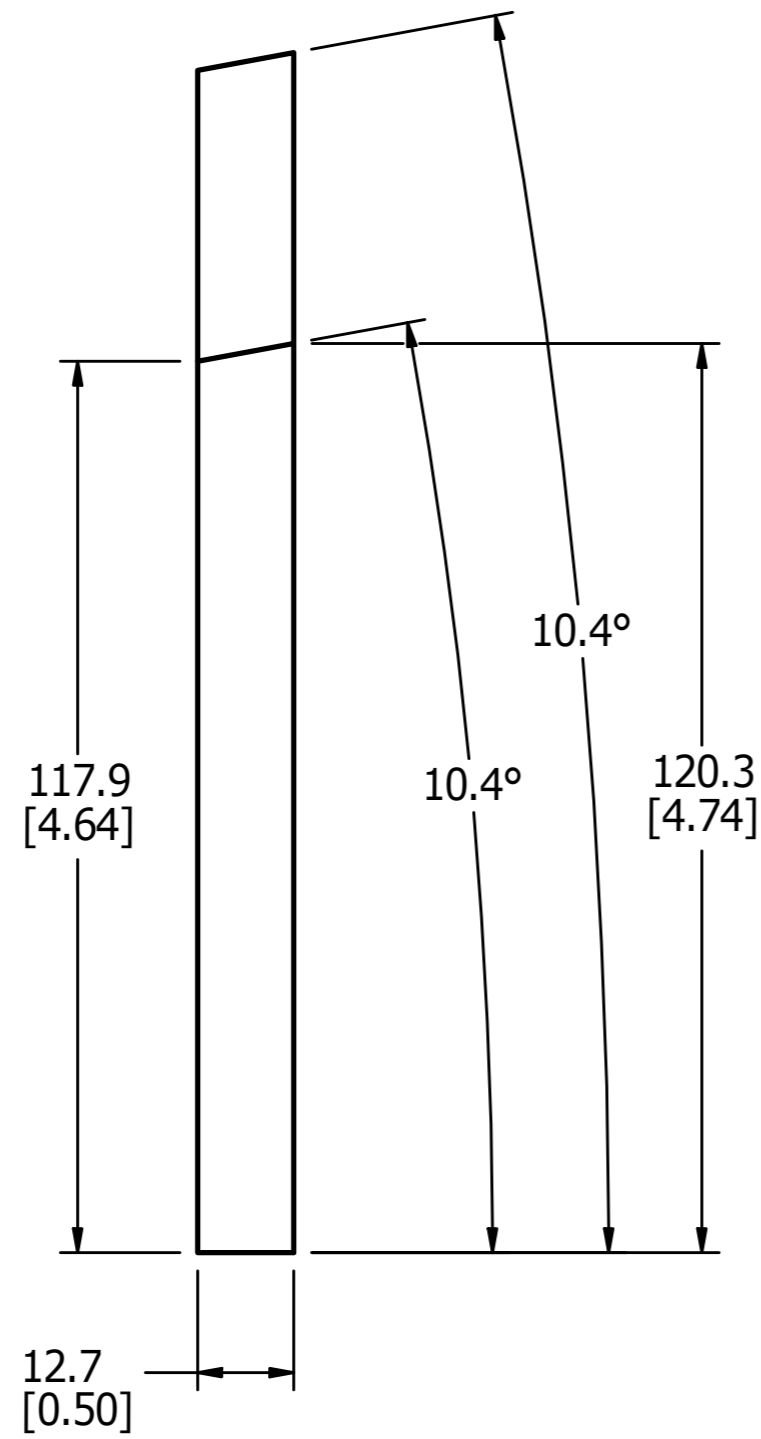
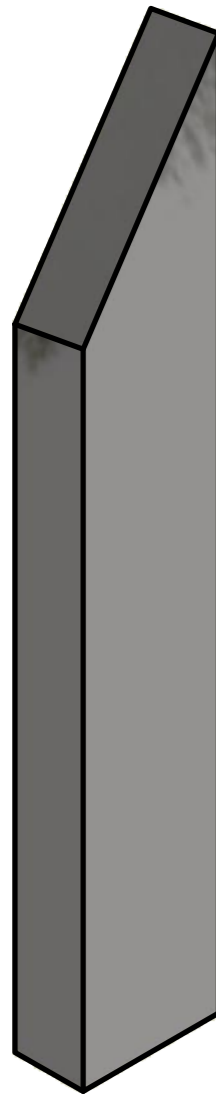


NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 25.4 [1.0"] x 12.7 [0.5"] x 158.8 [6.25"]

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 <small>ASME Y14.5M - 1994 DO NOT SCALE DRAWING</small>	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	<small>MACHINED</small> ANGLES $\pm 0.5^\circ$	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	
MATERIAL Steel, Mild HEAT TREAT FINISH	D-RING ANCHOR BRACE BAR - LEFT CHILD FRONTAL IMPACT SLED		SCALE: 1 : 1 SHEET 1 OF 1
SIZE A2 DRAWING NUMBER 3021-339 REV B			

REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING UPPER ANCHOR BRACE BAR - RIGHT	4/7/2016	DW
	B	ADDED NOTE #1	4/18/2019	DW

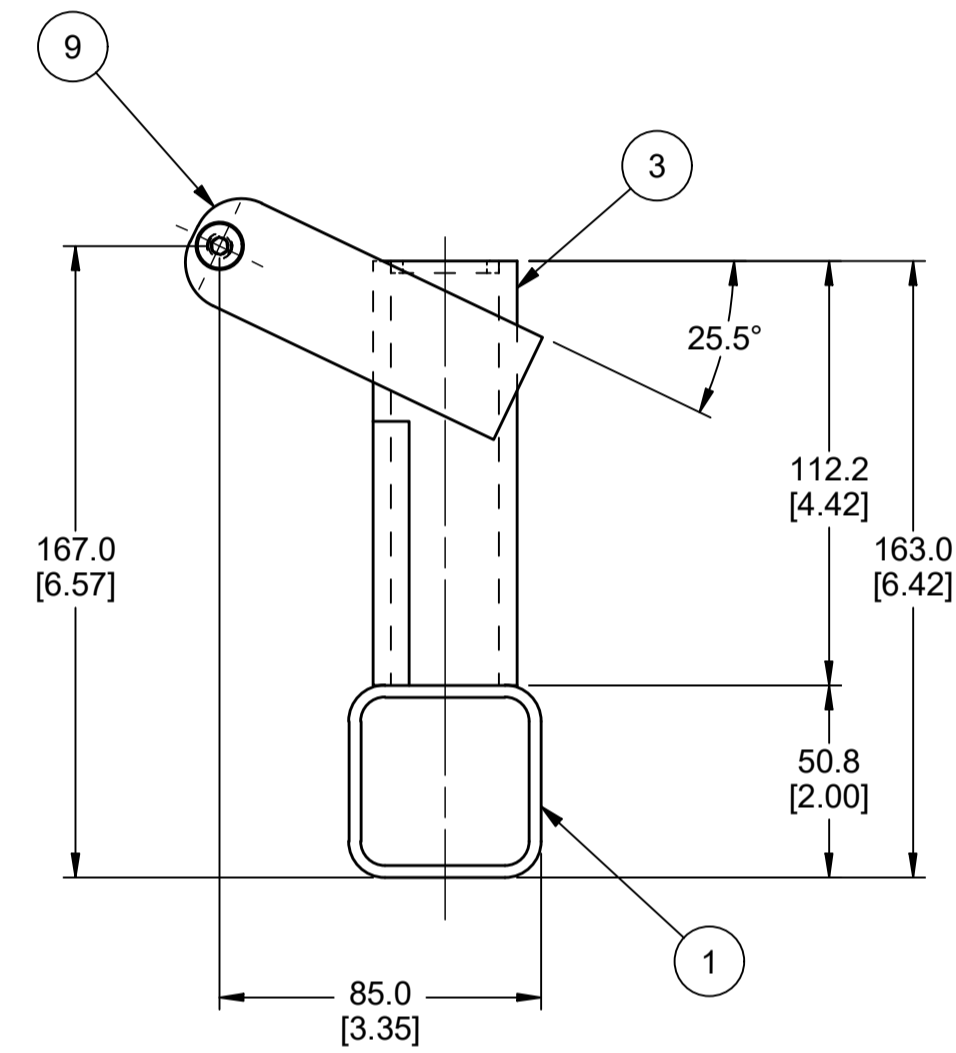
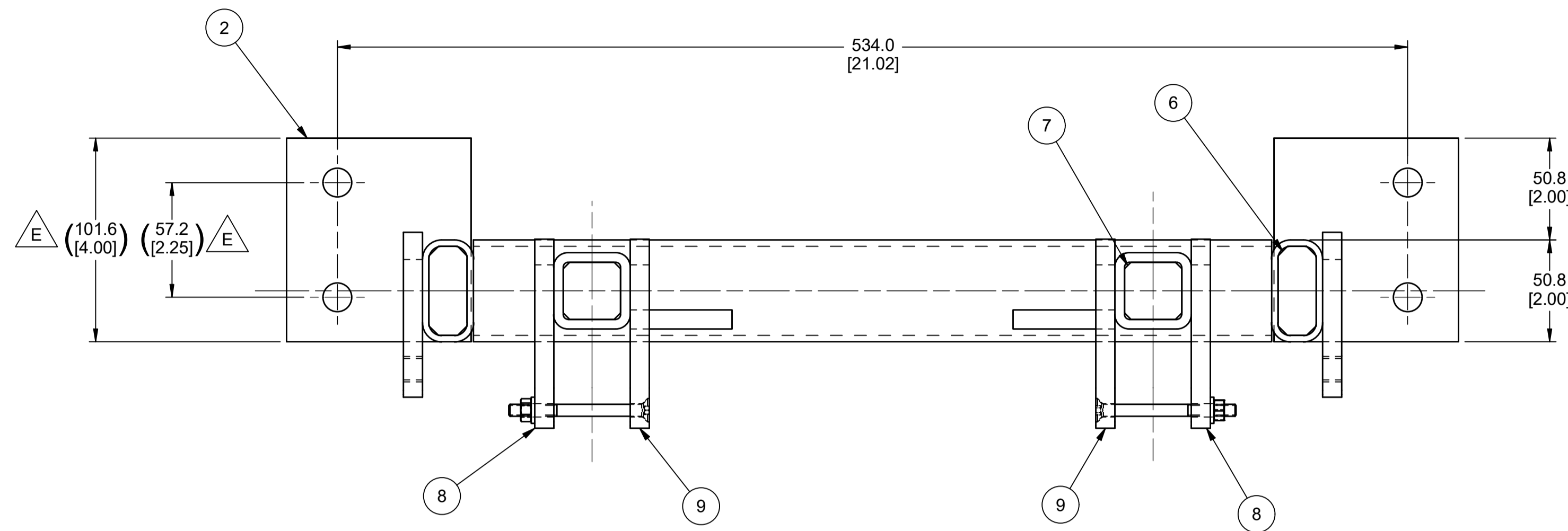
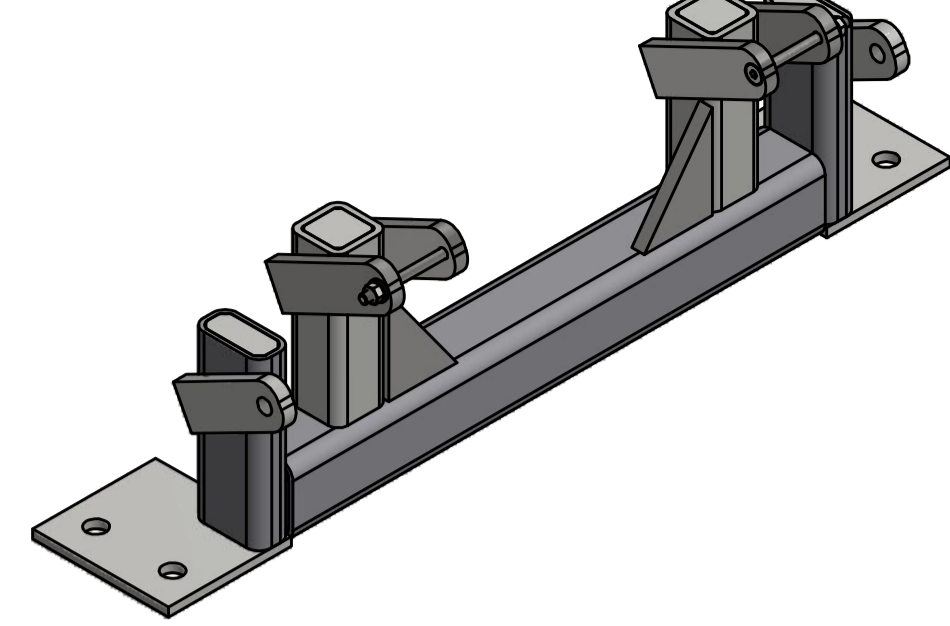


NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

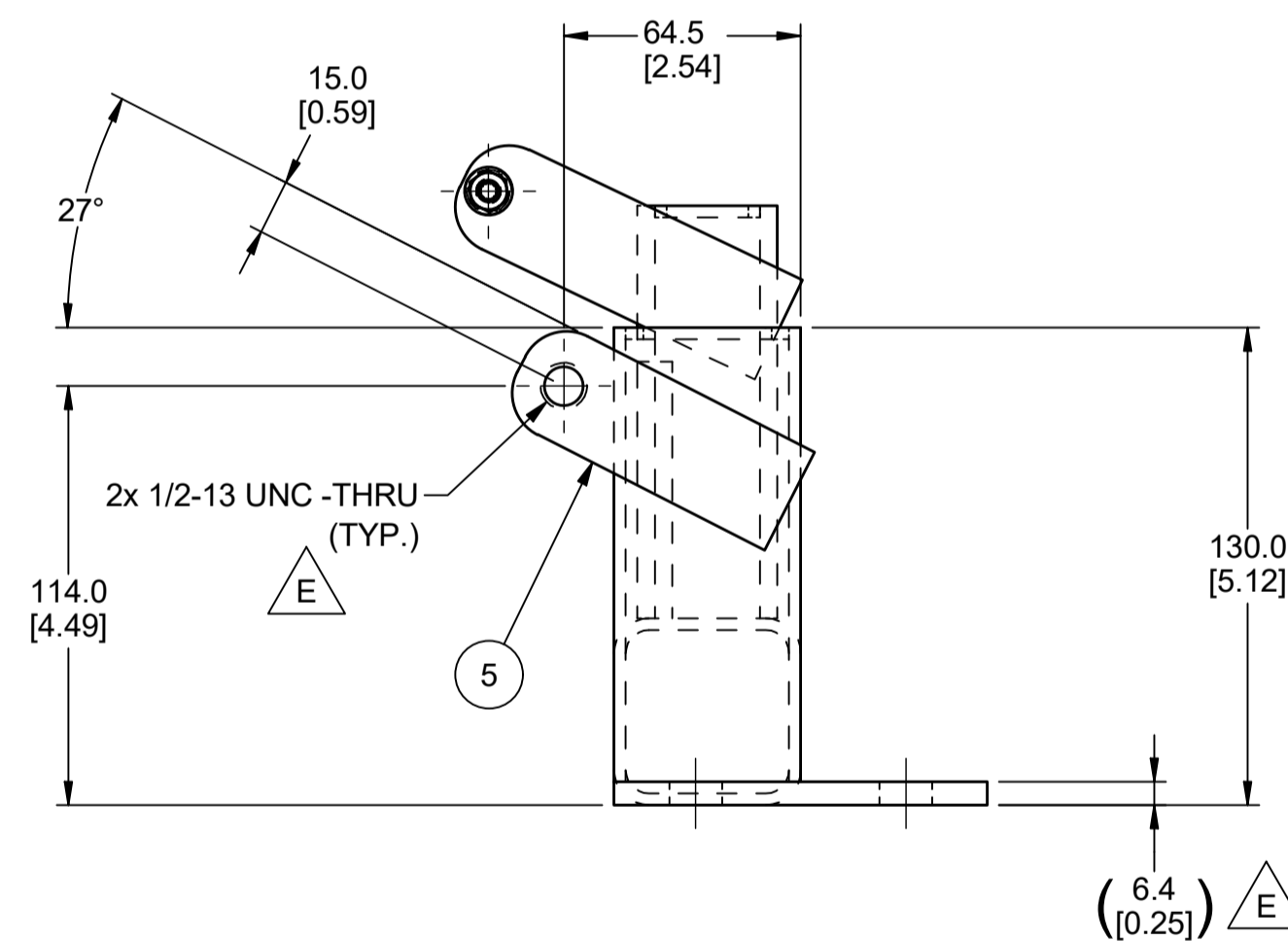
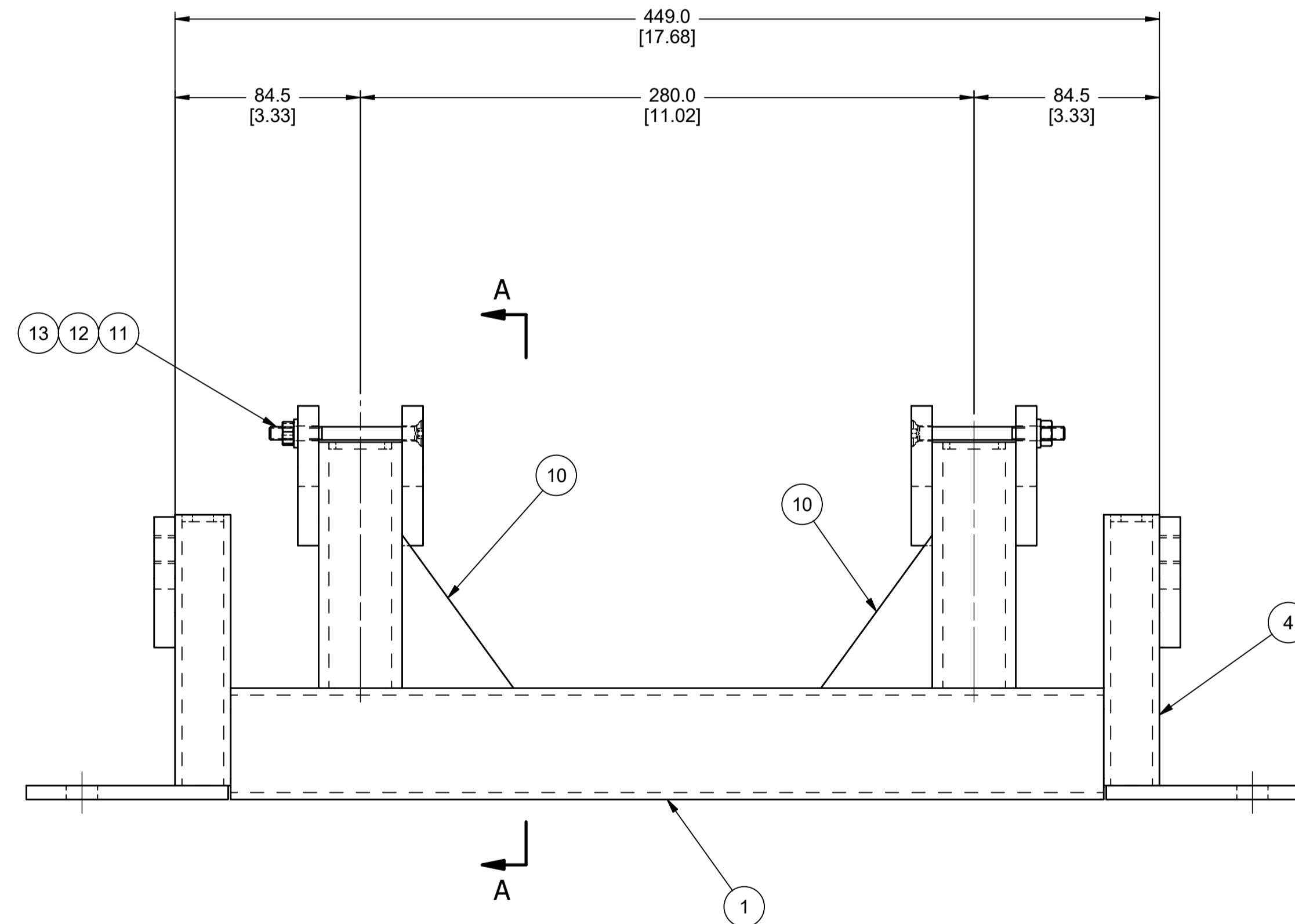
MATERIAL: BAR 25.4 [1.0"] x 12.7 [0.5"] x 158.8 [6.25"]

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ± 0.5 , XX ± 0.2 , XXX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994 DO NOT SCALE DRAWING</small>	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 4/7/2016	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG: APPROVED:	SIZE: A2 SCALE: 1:1	DRAWING NUMBER: 3021-340 REV: B SHEET: 1 OF 1

12 11 10 9 8 7 6 5 4 3 2 1



SECTION A-A



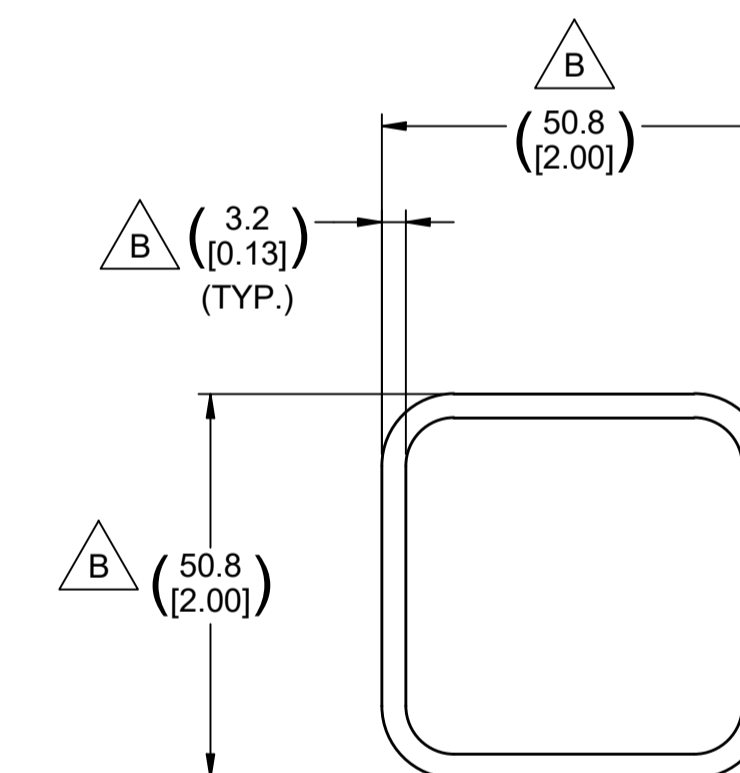
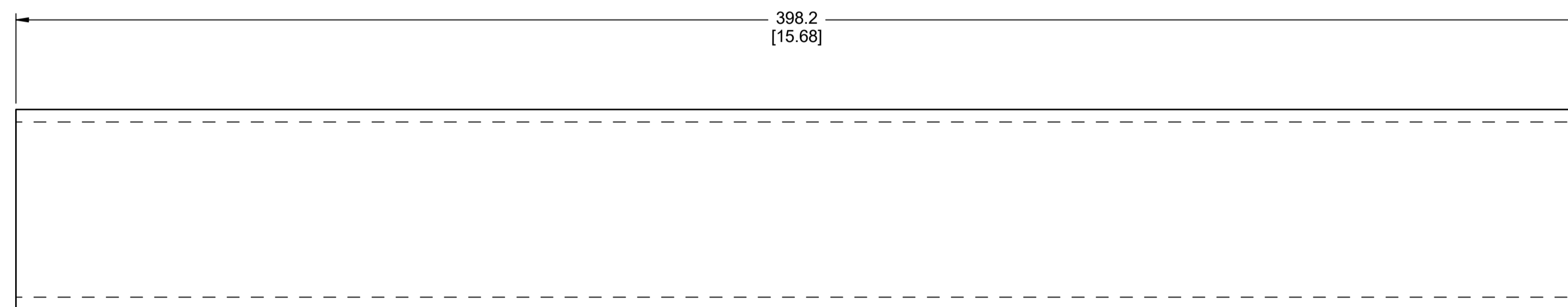
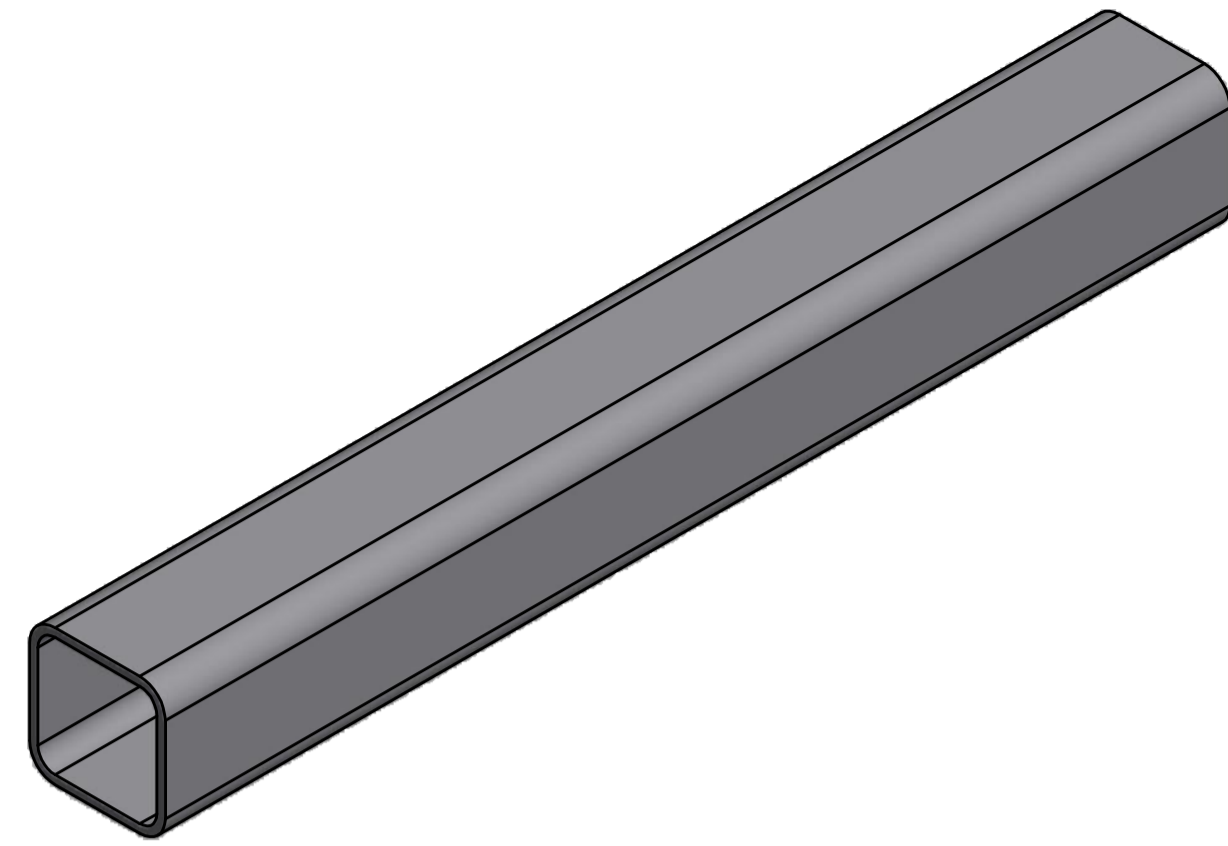
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
C4	A	DIMENSION 141.9 [5.59] WAS 181.9 [7.16]	11/3/2014	DW
	B	DIMENSION 534.0 [21.02] WAS 533.4 [21.00], 55.8 [2.20] WAS 57.2 [2.25], 163.0 [6.42] WAS 152.4 [6.00], 112.2 [4.42] WAS 101.6 [4.00], 167.0 [6.57] WAS 170.2 [6.70], 85.0 [3.35] WAS 107.8 [4.24], 25.56° WAS 23.3°, 449.0 [17.68] WAS 450.9 [17.75], 271.0 [10.67] WAS 280.0 [11.02], AND 89.0 [350] WAS 85.4 [3.36]; DESCRIPTION OF ITEM #3 - LATCH ANCHOR TUBE WAS LATCH ANCHOR ROD TUBE; ADDED ITEMS 8 THRU 13	4/6/2016	DW
	C	3021-765 MODIFIED FHCS WAS 9000560V STD FHCS	11/16/2016	JHC
	D	DIMENSION 280.0 [11.02] WAS 271.0 [10.67], 84.5 [3.33] WAS 89.0 [3.50]	4/17/2018	DW
	E	ADDED NOTE #1: DIMENSION (57.2 [2.25]) WAS 57.2 [2.25], (101.6 [4.00]) WAS 101.6 [4.00], AND (6.4 [0.25]) WAS 6.4 [0.25]; ADDED LATCH BELT ANCHOR PLATE TAPPED HOLE 2x 1/2-13 UNC THRU (TYP.); ITEM #11 PART #500015V - SCREW, FHCS M6x1.0 X 70 WAS PART #3021-765 - LATCH ANCHOR BOLT - MODIFIED FHCS, ITEM #12 PART 35000094 - WASHER, FLAT M6 WAS PART #9000244 - WASHER, FLAT Ø1/4"; ITEM #13 PART #9009091 - NUT, HEX M6-1 WAS PART #9001199 - NUT, HEX 1/4-20 (UNPLATED)	5/2/2019	DW

ITEM	QTY	PART NUMBER	DESCRIPTION
13	2	9009091	NUT, HEX M6-1
12	2	5000094	WASHER, FLAT M6
11	2	5000015V	SCREW, FHCS M6x1.0 x 70 (PARTIAL THREAD)
10	2	3021-761	LATCH GUSSET PLATE
7	2	3021-758	LATCH TUBE CAP #2
9	2	3021-760	LATCH ANCHOR PLATE-INSIDE
8	2	3021-759	LATCH ANCHOR PLATE-OUTSIDE
4	2	3021-755	LATCH END TUBE
3	2	3021-753	LATCH ANCHOR TUBE
5	2	3021-756	LATCH BELT ANCHOR PLATE
2	2	3021-752	LATCH BASE PLATE
6	2	3021-757	LATCH TUBE CAP #1
1	1	3021-751	LATCH BASE TUBE

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.


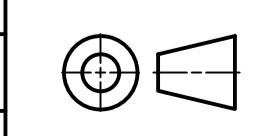
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER APPROVALS: Dave Walker DATE: 4/17/2013 DRAWN: Dave Walker CHECKED: [] HEAT TREAT: ENG FINISH: APPROVED		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION LATCH ASSEMBLY CHILD FRONTAL IMPACT SLED SIZE: A1 DRAWING NUMBER: 3021-750 SCALE: 1 / 2 SHEET: 1 OF 1	
--	--	---	--	---	--

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 398.2 [15.68] WAS 400.1 [15.75]	11/30/2015	DW
	B	ADDED NOTE #1; DIMENSION (50.8 [2.00]) WAS 50.8 [2.00], AND (3.2 [0.13]) WAS 3.2 [0.13]	4/18/2019	DW

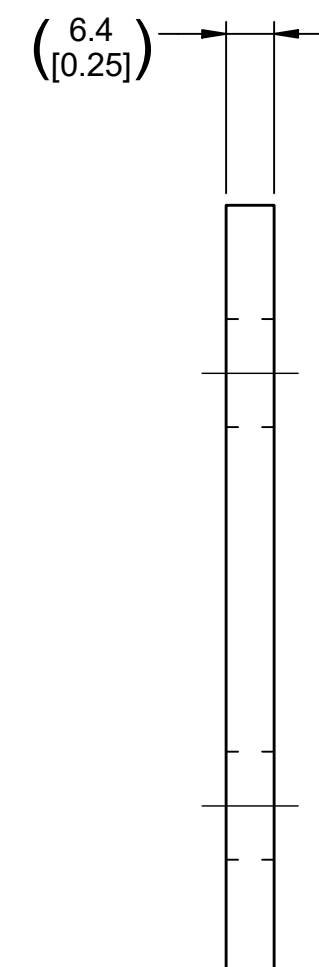
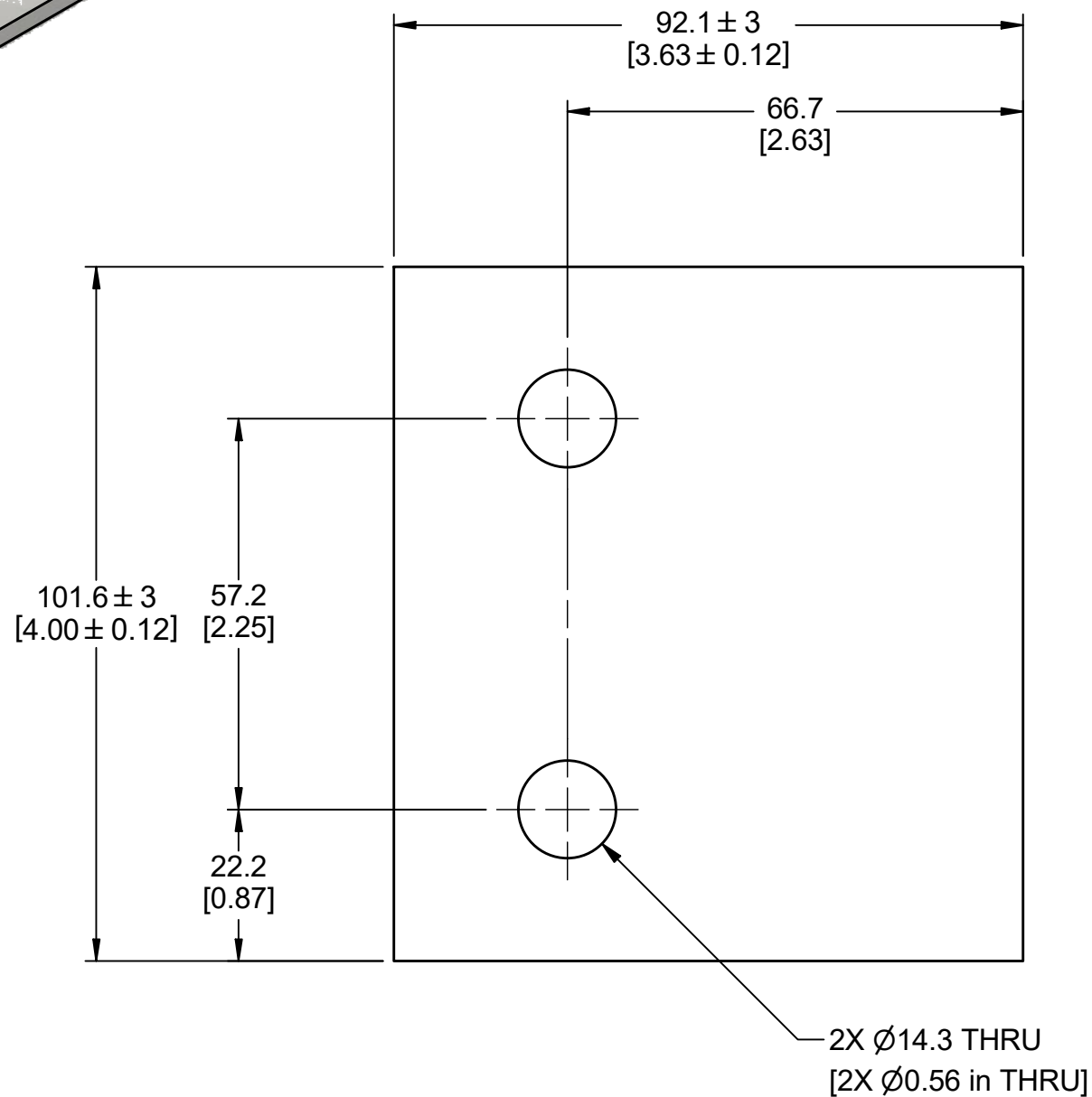
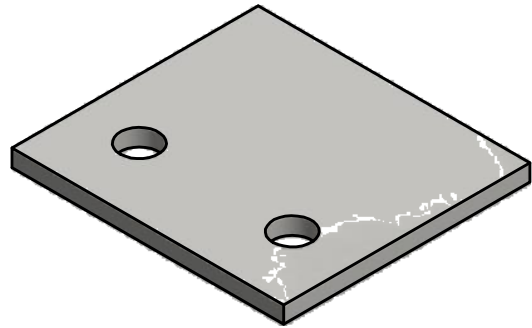


NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$)
 UNLESS OTHERWISE NOTED.

MATERIAL: T.S. 2" x 2" x 1/8" x 398.2mm[15.68"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED: ✓ ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
APPROVALS		DATE		LATCH BASE TUBE CHILD FRONTAL IMPACT SLED	
DRAWN Dave Walker		4/19/2013			
MATERIAL Steel, Mild		CHECKED		 SIZE A1 DRAWING NUMBER 3021-751 REV B	
HEAT TREAT		ENG			
FINISH		APPROVED			
SCALE: 1:1		SHEET 1 OF 1			

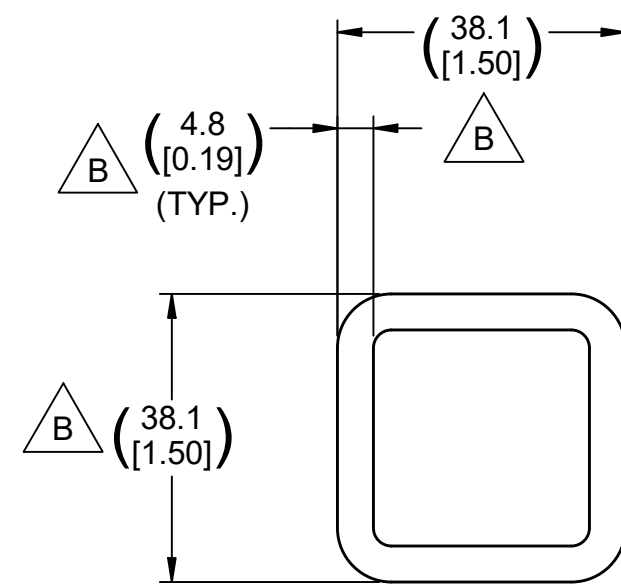
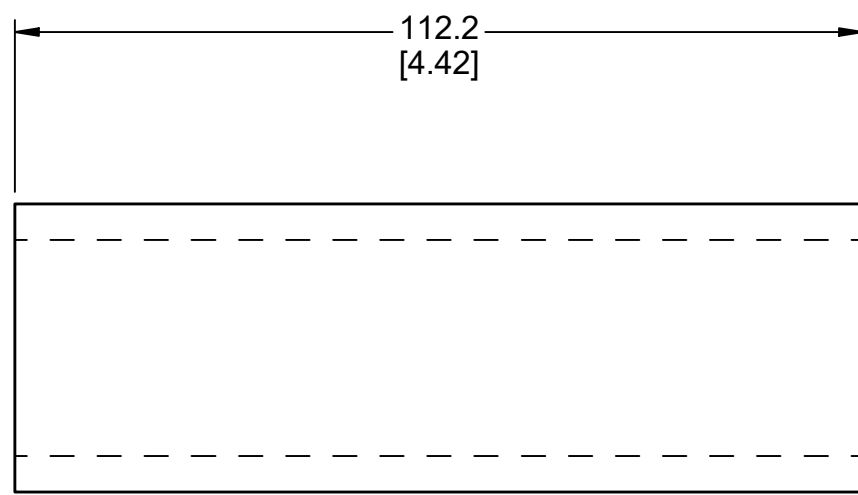
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 92.1 ±3 [3.63 ±0.12] WAS 92.1 [3.63], 101.6 ±3 [4.00 ±0.12] WAS 101.6 [4.00], AND (6.4 [0.25]) WAS 6.4 [0.25]	4/19/2013	DW



MATERIAL: PL 6.4mm[0.25"] x 92.1mm[3.63"] x 101.6mm[4.0"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED: ±.5 ANGLES: ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE 4/19/2013	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	THIRD ANGLE PROJECTION	SIZE: A3 SCALE: 1:1	DRAWING NUMBER: 3021-752 SHEET: 1 OF 1 REV: A

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIM. 38.1 [1.50] WAS 50.8 [2.00], 4.8 [0.19] TYP. WAS 3.2 [0.13] TYP., & 112.2 [4.42] WAS 101.6 [4.00]	11/30/2015	DW
	B	ADDED NOTE #1; DIMENSION (38.1 [1.5]) WAS 38.1 [1.5], AND (4.8 [0.19]) WAS 4.8 [0.19]	4/18/2019	DW

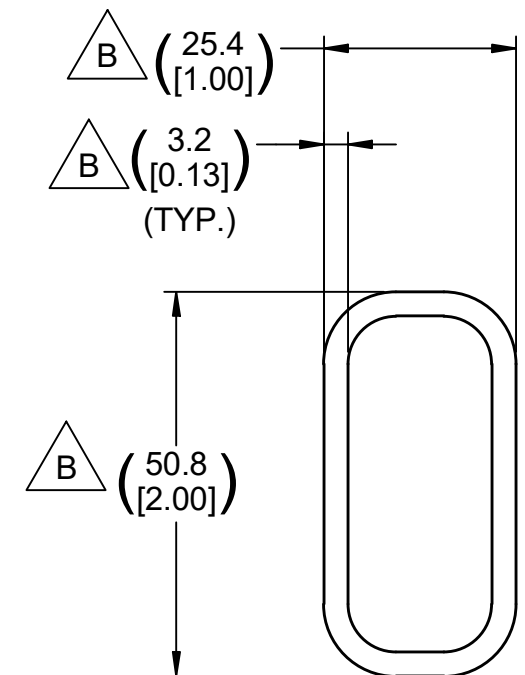
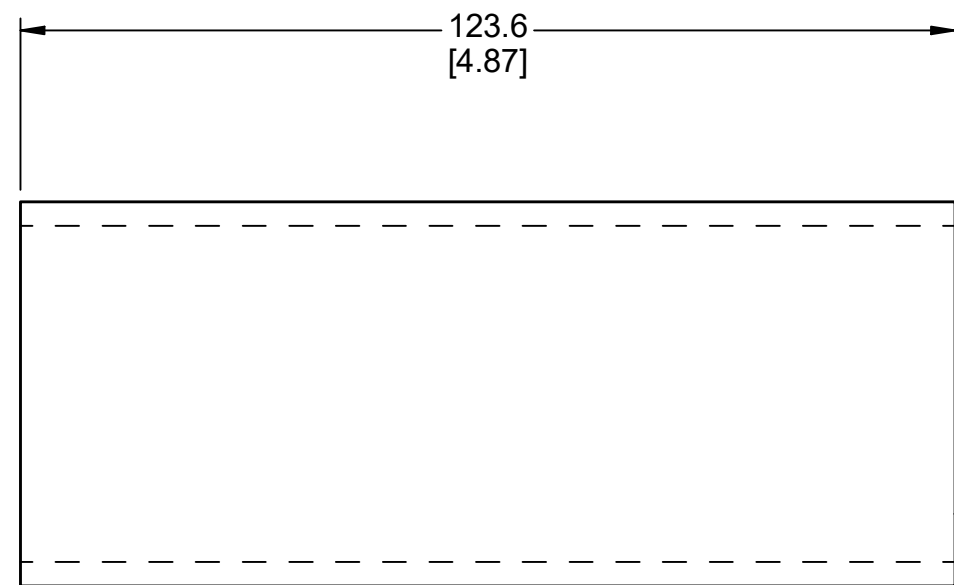
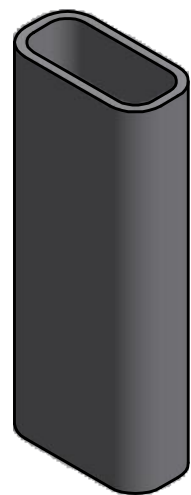



NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: T.S. 1 1/2" x 1 1/2" x 3/16" x 112.2mm[4.42"]


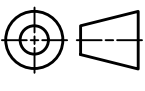
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED: ENG: APPROVED:	DATE 4/19/2013		LATCH ANCHOR TUBE CHILD FRONTAL IMPACT SLED	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:		SIZE: A3 SCALE: 1/2	DRAWING NUMBER: 3021-753 SHEET: 1 OF 1	REV: B	

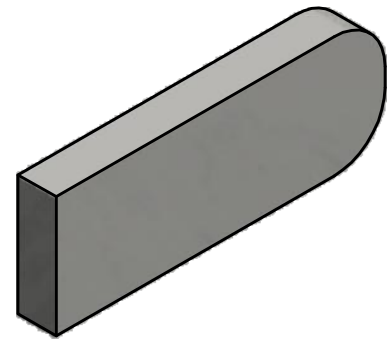
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 123.6 [4.87] WAS 158.8 [6.25]	4/19/2013	DW
	B	ADDED NOTE #1, DIMENSIONS (25.4 [1.00]) WAS 25.4 [1.00], (3.2 [0.13]) WAS 3.2 [0.13], (50.8 [2.00]) WAS 50.8 [2.00]	4/19/2019	DW



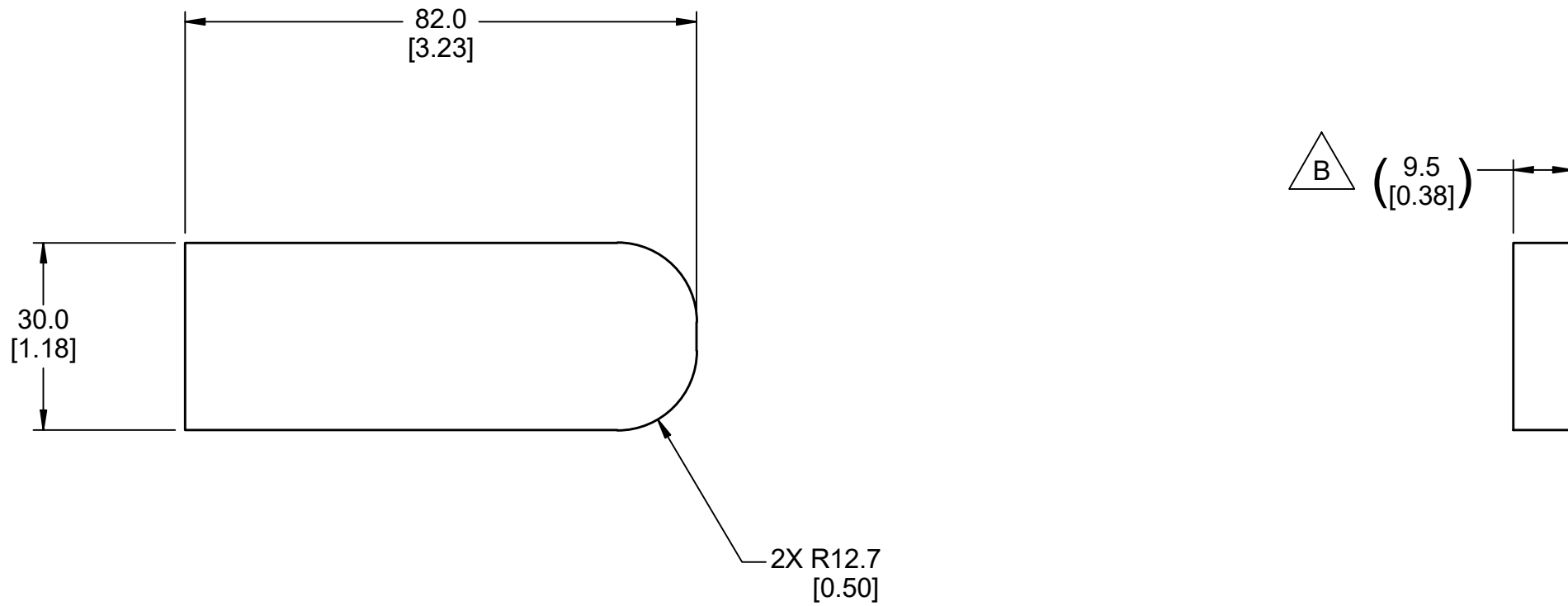

NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.


MATERIAL: T.S. 2 x 1 x 1/8 x 123.6mm[4.87"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED: $\sqrt{\text{V}}$ ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 4/19/2013	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG APPROVED:	 THIRD ANGLE PROJECTION	SIZE: A3 SCALE: 1/2 SHEET: 1 OF 1
			DRAWING NUMBER: 3021-755 REV: B

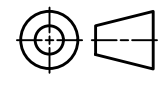


REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	COMPLETE REDESIGN, DIM. 30.0 [1.18] WAS 50.8 [2.00], 69.0 [2.72] WAS 113.6 [4.47], & 15.0 [0.59] WAS 15.9 [0.63]	4/19/2013	DW
	B	ADDED NOTE #1, DIMENSION (9.5 [0.38]) WAS 9.5 [0.38], REMOVED HOLE 1/2-13 UNC THRU	4/19/2019	DW



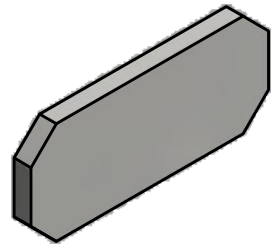

NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$)
 UNLESS OTHERWISE NOTED.

MATERIAL: BAR 30.0mm[1.18"] x 9.5mm[0.38"] x 82.0mm[3.23"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED: $\sqrt{\text{V}}$ 1.5 ANGLES: $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 4/19/2013	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG APPROVED:	 THIRD ANGLE PROJECTION	SIZE: A3 SCALE: 1:1 DRAWING NUMBER: 3021-756 SHEET: 1 OF 1 REV: B

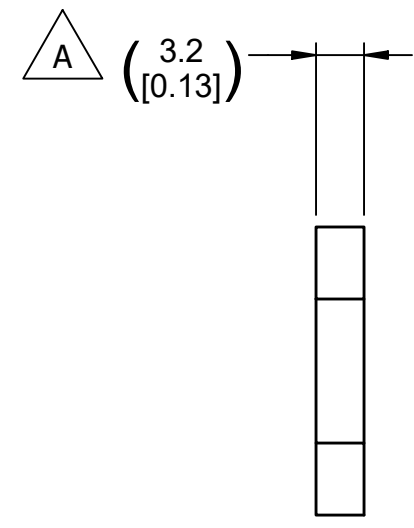
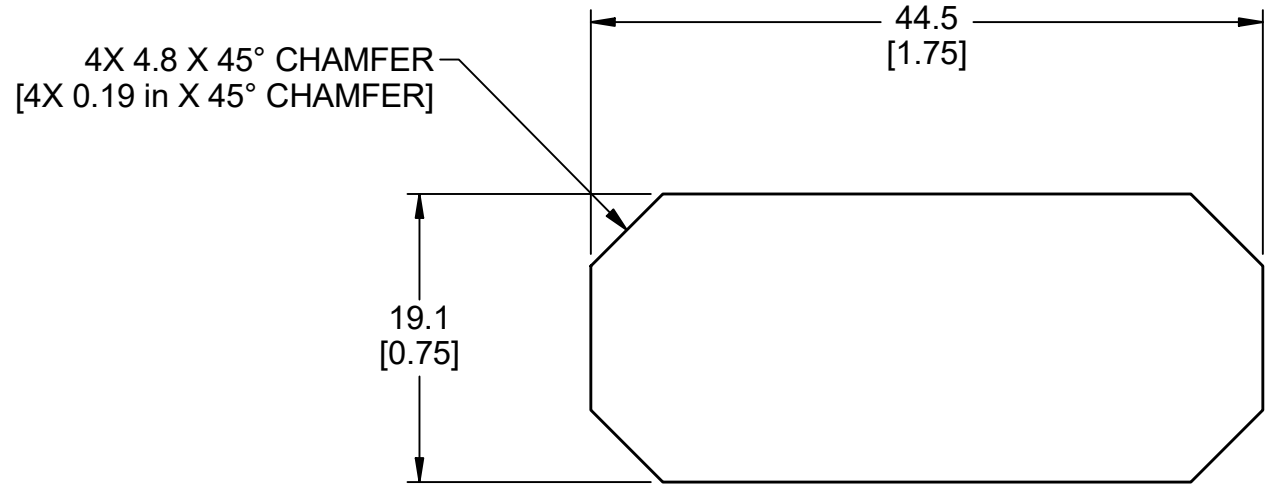
6 5 4 3 2 1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION (3.2 [0.13]) WAS 3.2 [0.13]	4/22/2013	DW



D D

C C



A A

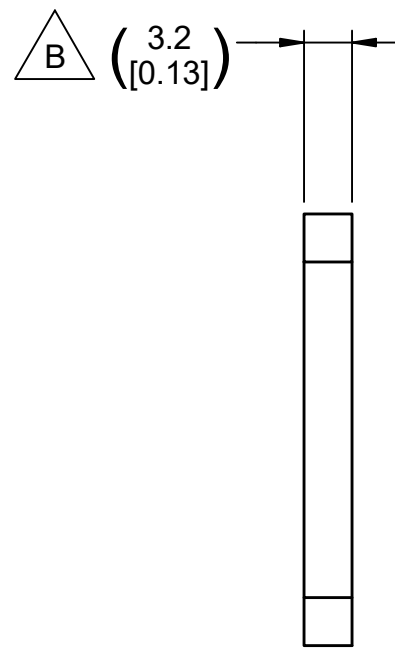
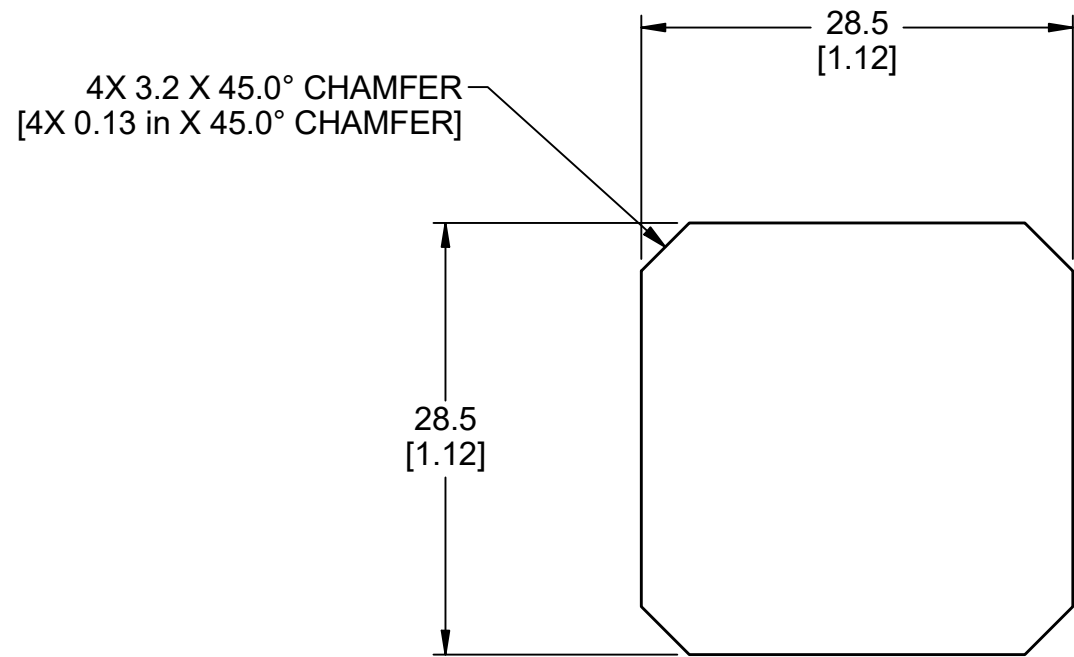
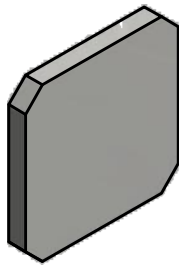
B B

MATERIAL: PL 3.2mm[0.125"] x 19.1mm[0.75"] x 44.5mm[1.75"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ANGLES: 1.5° ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		LATCH TUBE CAP #1 CHILD FRONTAL IMPACT SLED	
	DRAWN Dave Walker	4/22/2013			
MATERIAL: Steel, Mild	CHECKED		REV: A		
HEAT TREAT	ENG				
FINISH	APPROVED				

6 5 4 3 2 1

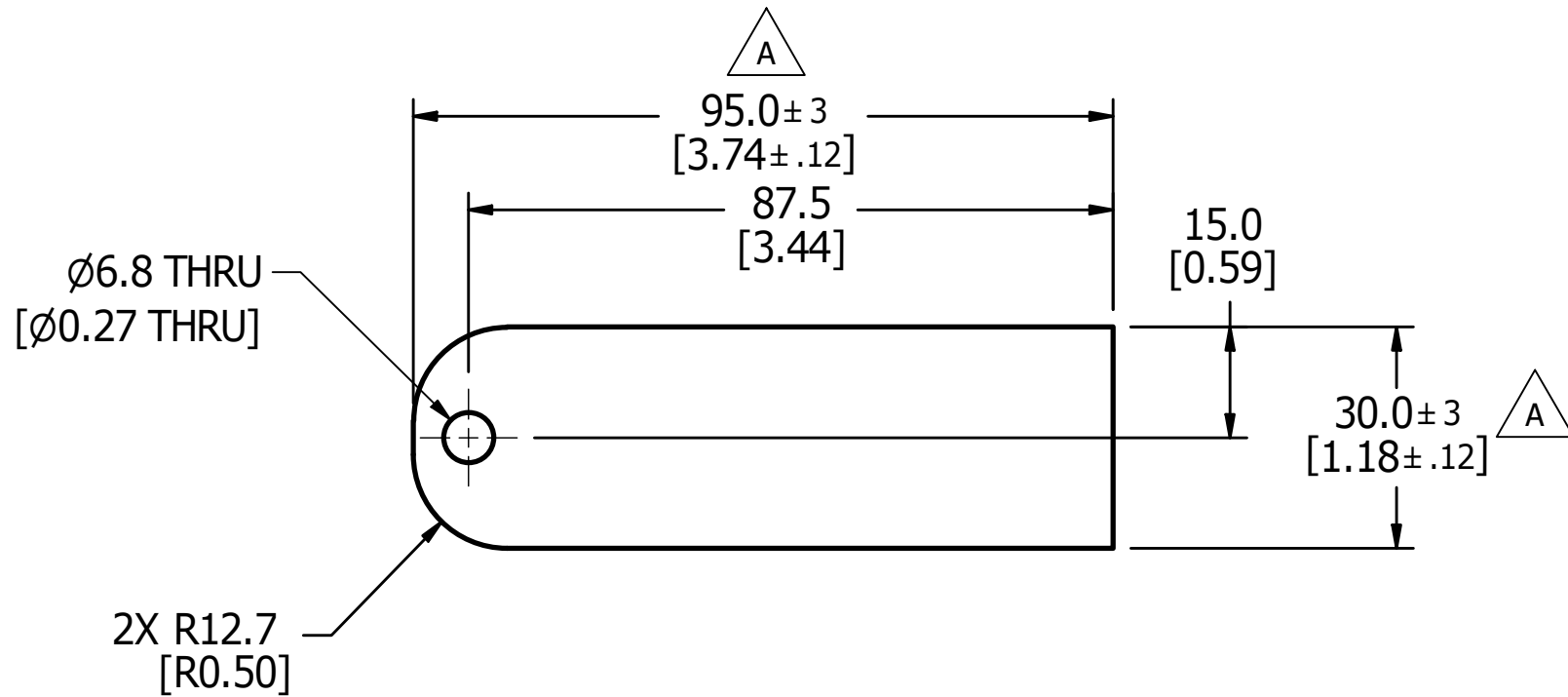
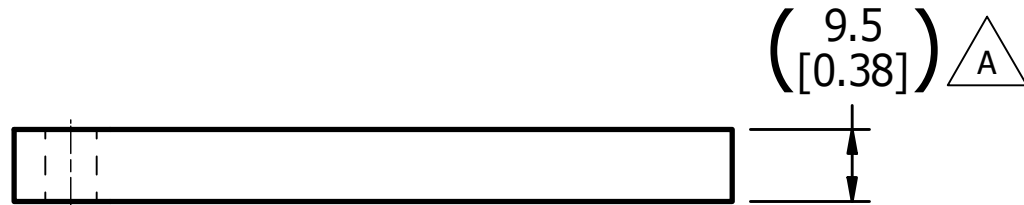
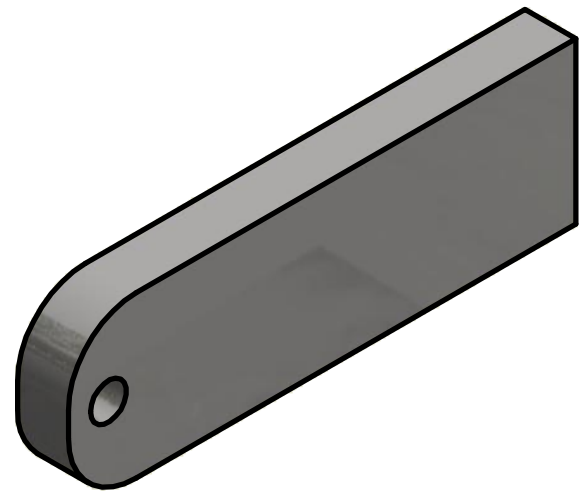
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 28.5 [1.12] WAS 44.5 [1.75]	11/30/2015	DW
	B	DIMENSION (3.2 [0.13]) WAS 3.2 [0.13]	4/22/2019	DW



MATERIAL: PL 3.2mm[0.19"] x 28.5mm[1.12"] x 28.5mm[1.12"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED ANGLES ±.5° <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		LATCH TUBE CAP #2 CHILD FRONTAL IMPACT SLED	
MATERIAL Steel, Mild	DRAWN Dave Walker	4/22/2013		SIZE A3	DRAWING NUMBER 3021-758
HEAT TREAT	CHECKED			SCALE: 2 : 1	REV B
FINISH	ENG			SHEET 1 OF 1	
	APPROVED				

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIM. 65.0 ±3 [3.75 ±0.12] WAS 95.0 [3.75], 30.3 ±3 [1.18 ±0.12] WAS 30.0 [1.18], (9.5 [0.38]) WAS 9.5 [0.38]	4/19/2019	DW



MATERIAL: PL 9.5 [.38] X 30.0 [1.18] X 95.0 [3.74]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED 1/16 ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 11/30/2015		LATCH ANCHOR PLATE-OUTSIDE CHILD FRONTAL IMPACT SLED	
MATERIAL Steel, Mild HEAT TREAT FINISH			SIZE A3 SCALE: 1:1	DRAWING NUMBER 3021-759 SHEET 1 OF 1	REV A

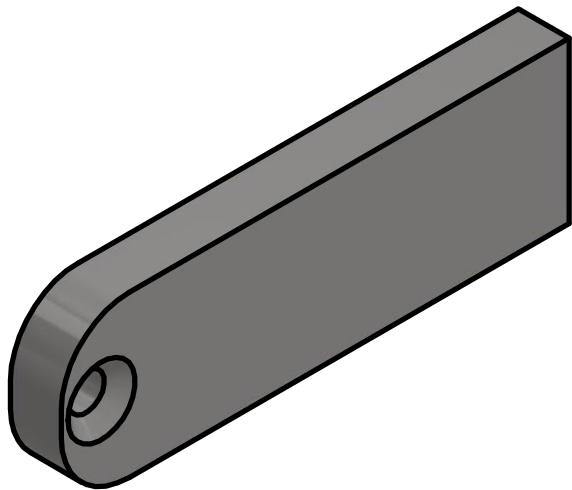
4

3

2

1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIM. 95.0 ±3 [3.74 ±0.12] WAS 95.0 [0.12], 30.0 ±3 [1.18 ±.12] WAS 30.0 [1.18], (9.5 [0.38]) WAS 9.5 [0.38]; HOLE DIMENSION Ø6.8 THRU √ Ø12.6 x 90° [Ø0.27 THRU √ Ø0.50 x 90°] WAS Ø6.8 THRU √ Ø12.9 x 82° [Ø0.27 THRU √ Ø0.51 x 82°]	4/19/2019	DW

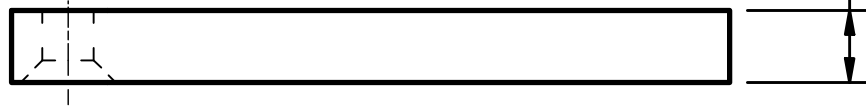


B

B



(9.5
[0.38])



95.0 ± 3
[3.74 ± .12]

87.5
[3.44]

2X R12.7
[R0.50]

15.0
[0.59]

30.0 ± 3
[1.18 ± .12]



Ø6.8 THRU
√ Ø12.6 X 90°
[Ø0.27 THRU
√ Ø0.50 X 90°]

A

A

MATERIAL: PL 9.5 [.38] x 30.0 [1.18] x 95.0 [3.74]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED 1/6 ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE	LATCH ANCHOR PLATE-INSIDE CHILD FRONTAL IMPACT SLED	
	DRAWN Dave Walker	11/30/2015		
	MATERIAL Steel, Mild	CHECKED	THIRD ANGLE PROJECTION	SIZE A3
HEAT TREAT ENG	APPROVED	SCALE: 1 : 1	SHEET 1 OF 1	REV A

4

3

2

1

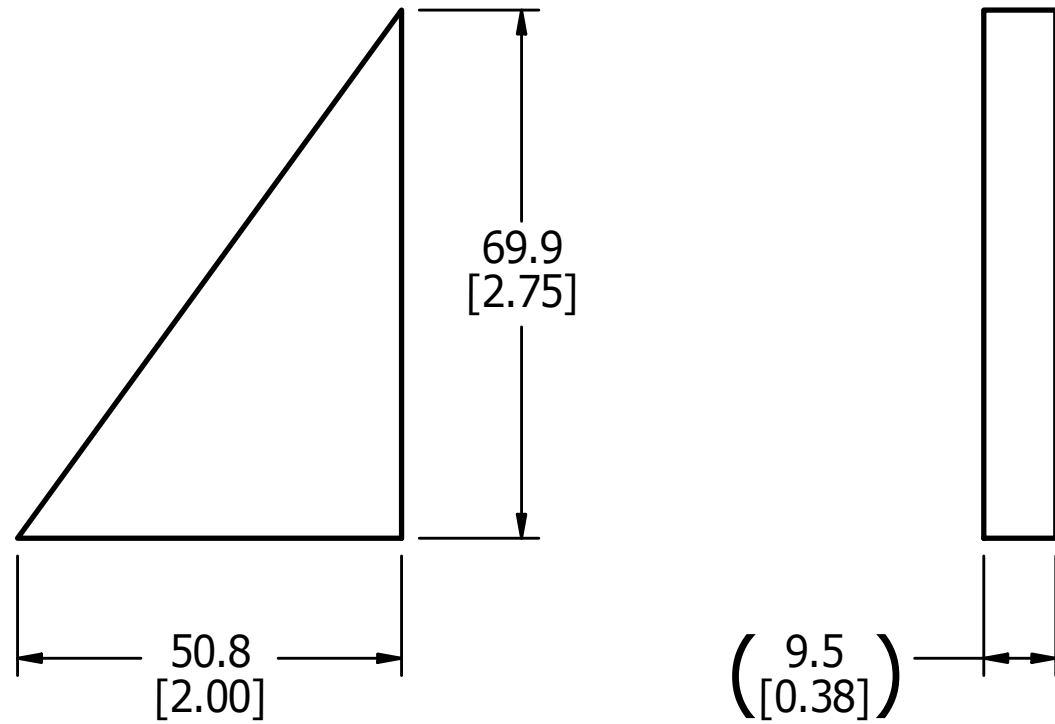
4

3

2

1

REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1, DIM. (9.5 [0.38]) WAS 9.5 [0.38]	4/19/2019	DW



B

B

A

A

NOTES:

- 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 2" x 3/8" x 68.6mm [2 3/4"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED: $\frac{1}{16}$ ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 4/6/2016	
MATERIAL Steel, Mild HEAT TREAT FINISH	THIRD ANGLE PROJECTION	SIZE A3 SCALE: 1 : 1	DRAWING NUMBER 3021-761 SHEET 1 OF 1

A

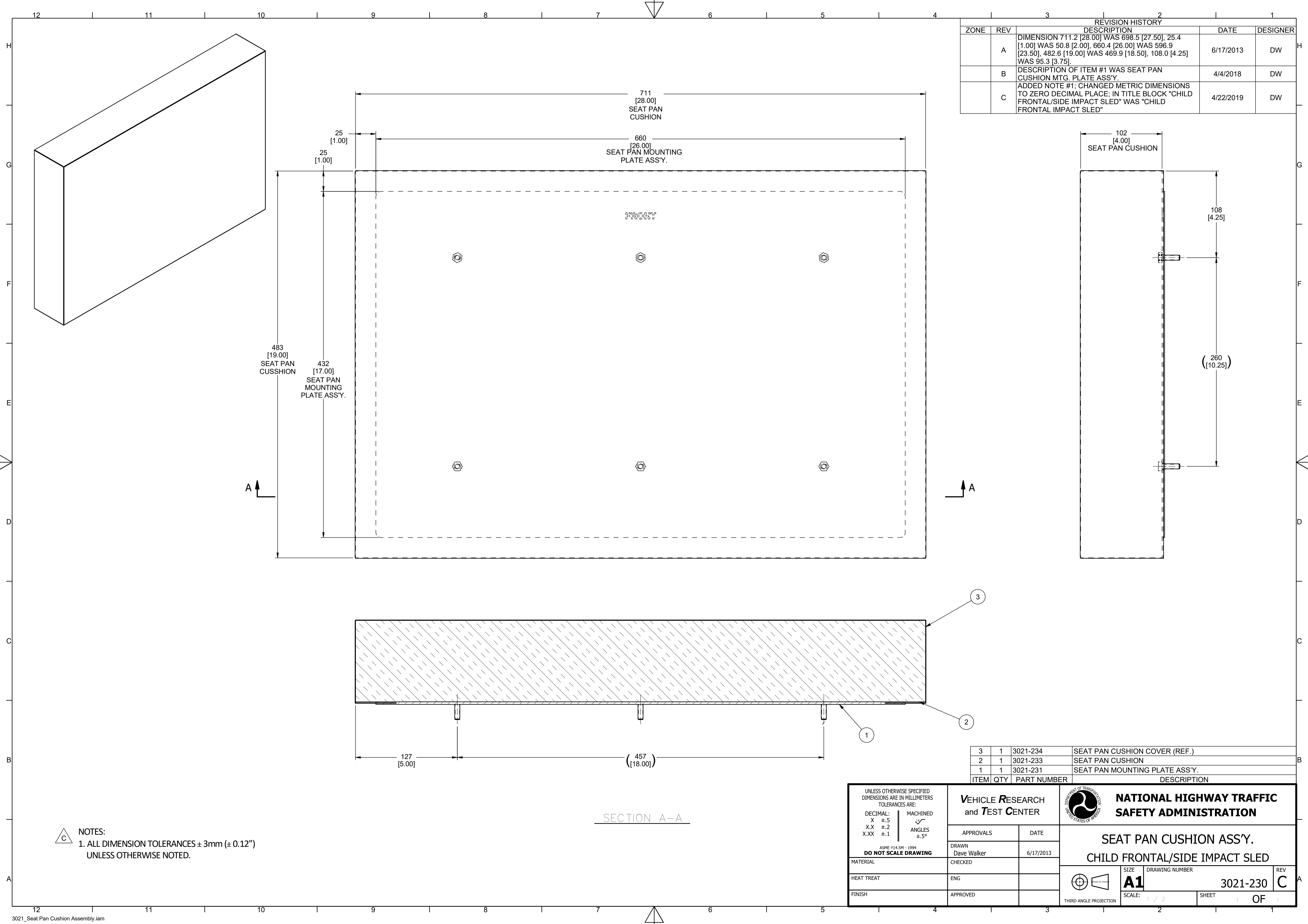
A

4

3

2

1



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	DESIGNER
	A	DIMENSION 711.2 [28.00] WAS 698.5 [27.50], 25.4 [1.00] WAS 50.8 [2.00], 660.4 [26.00] WAS 596.9 [23.50], 482.6 [19.00] WAS 469.9 [18.50], 108.0 [4.25] WAS 95.3 [3.75].	6/17/2013	DW
	B	DESCRIPTION OF ITEM #1 WAS SEAT PAN CUSHION MTG. PLATE ASSY.	4/4/2018	DW
	C	ADDED NOTE #1: CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"	4/22/2019	DW

ITEM	QTY	PART NUMBER	DESCRIPTION
3	1	3021-234	SEAT PAN CUSHION COVER (REF.)
2	1	3021-233	SEAT PAN CUSHION
1	1	3021-231	SEAT PAN MOUNTING PLATE ASSY.

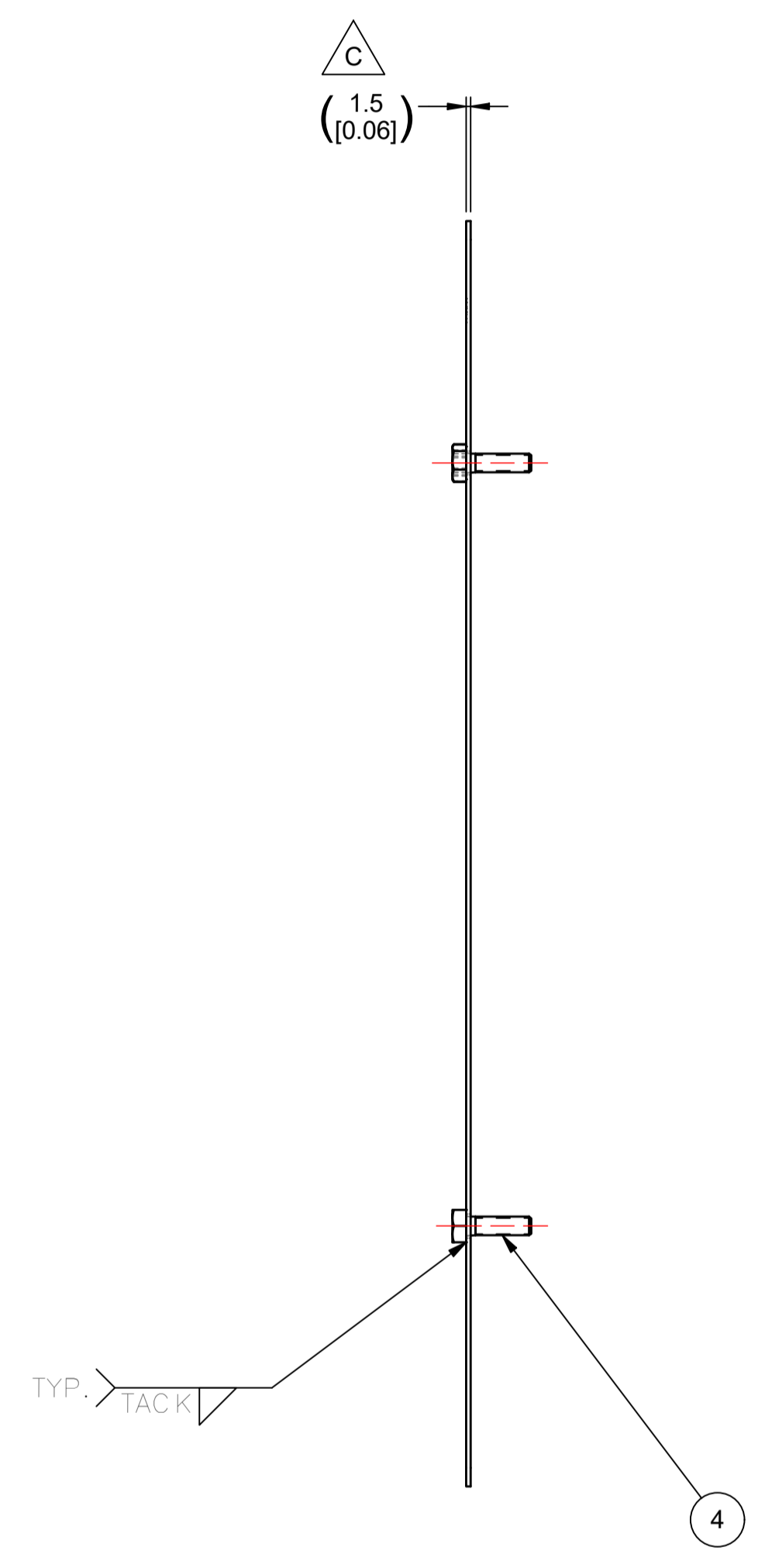
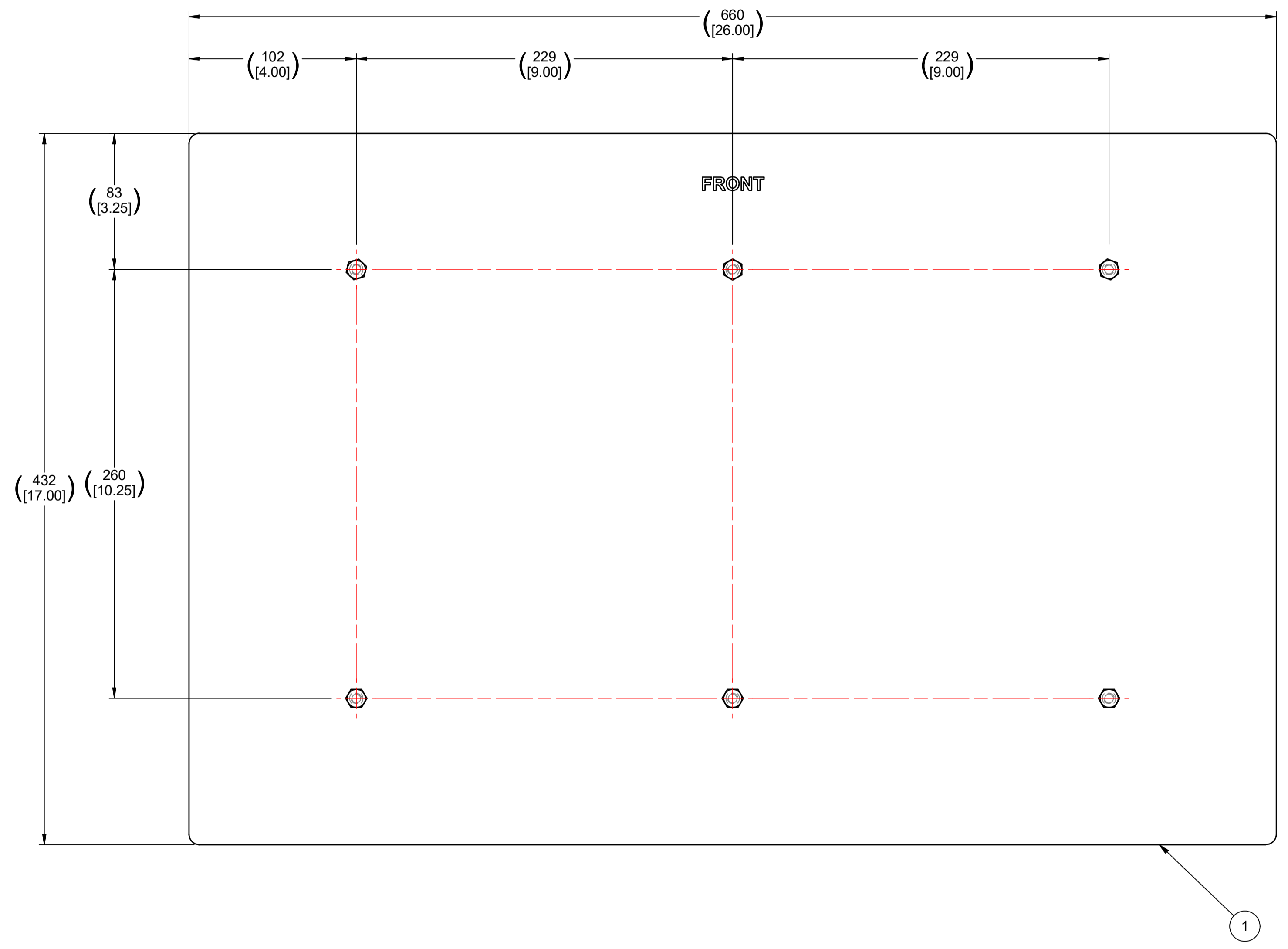
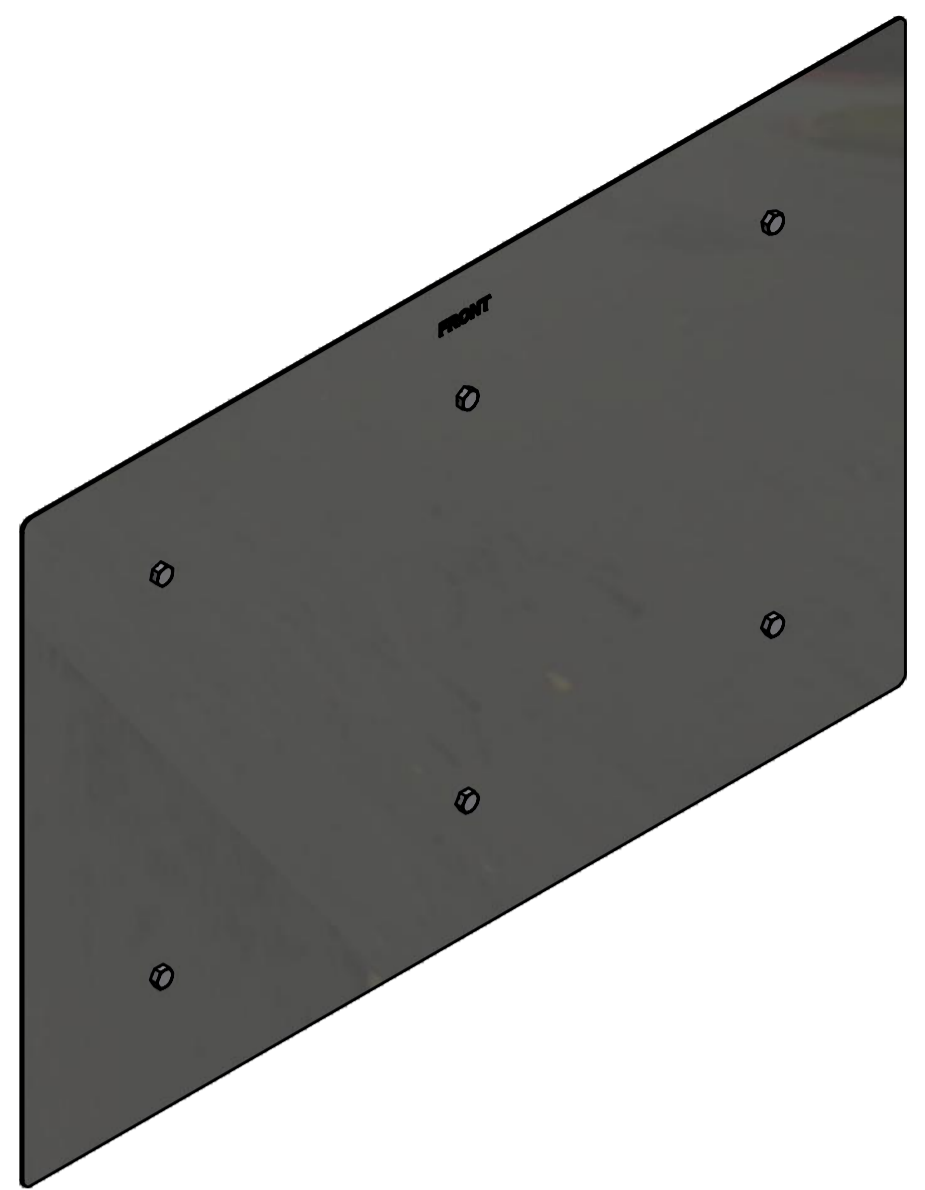
NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL:	X ±.5	MACHINED	✓
	X.X ±.2	ANGLES	±.5°
	X.XX ±.1		
ASME Y14.5M - 1994		DO NOT SCALE DRAWING	
MATERIAL	CHECKED	APPROVALS	DATE
HEAT TREAT	ENG	DAVE WALKER	6/17/2013
FINISH	APPROVED		
THIRD ANGLE PROJECTION		SEAT PAN CUSHION ASSY. CHILD FRONTAL/SIDE IMPACT SLED	
SIZE	DRAWING NUMBER	REV	
A1	3021-230	C	
SCALE:	1 / 2	SHEET	1 OF 1

12 11 10 9 8 7 6 5 4 3 2 1

H G F E D C B A

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	DESIGNER
	A	DIMENSION 660.4 [26.00] WAS 698.5 [27.50], 101.6 [2.75] WAS 88.9 [3.5], 431.8 [17.00] WAS 469.8 [18.5], 82.6 [3.25] WAS 95.3 [3.75], 44.5 [1.75] WAS 69.9 [2.75], AND 0.9 [0.03] WAS 1.5 [0.06]	3/10/2015	DW
	B	DRAWING TITLE WAS SEAT PAN CUSHION MTG. PLATE.; REVISED ITEM #1, 3021-232, SEAT PAN MOUNTING PLATE	4/4/2018	DW
	C	CHANGED ALL DIMENSIONS TO REFERENCE AND ALL METRIC DIMENSIONS TO ZERO DECIMAL PLACES; DIMENSION (1.5 [0.06]) WAS 0.9[0.03]; ADDED NOTE 1	5/2/2019	DW



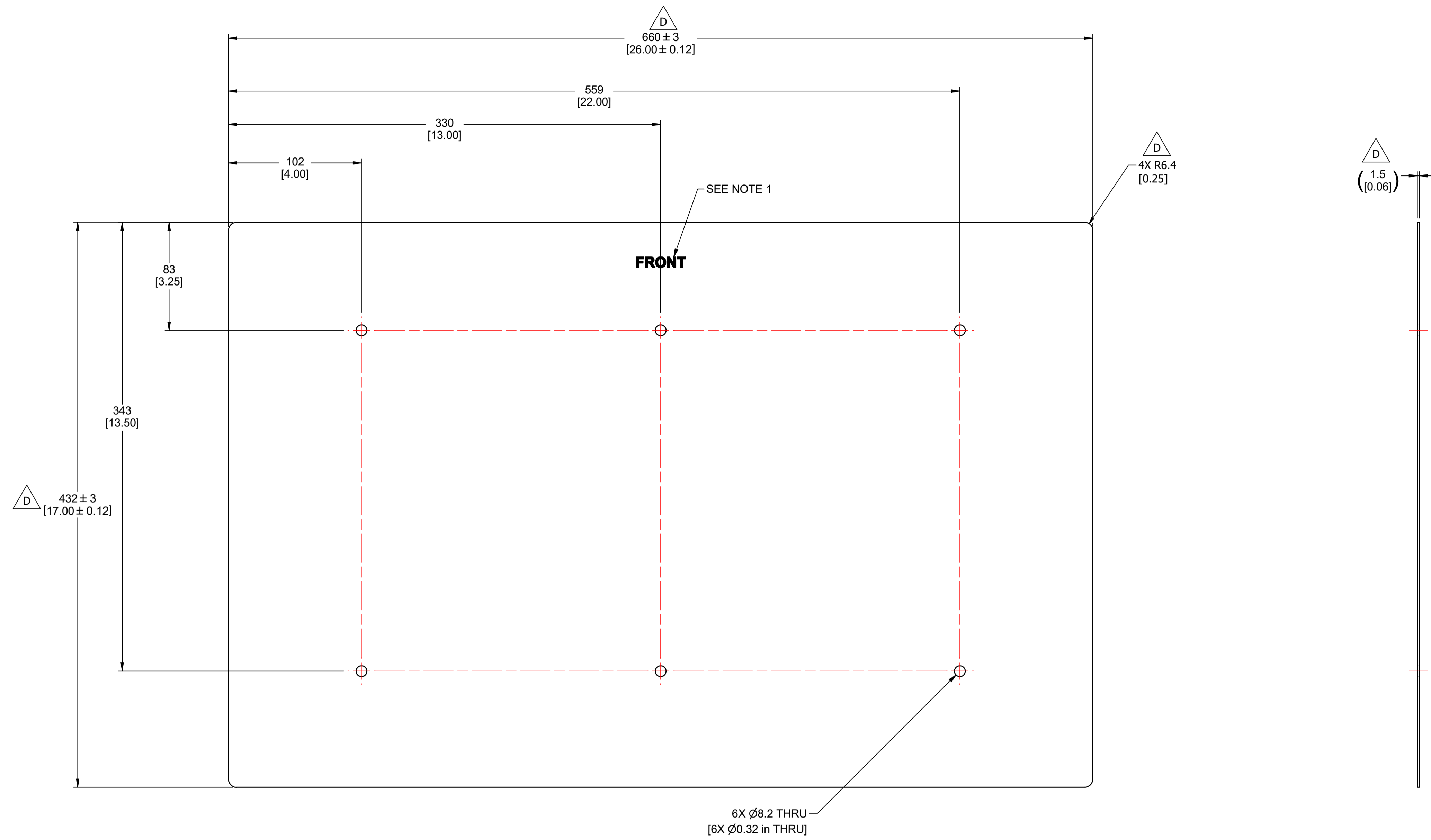
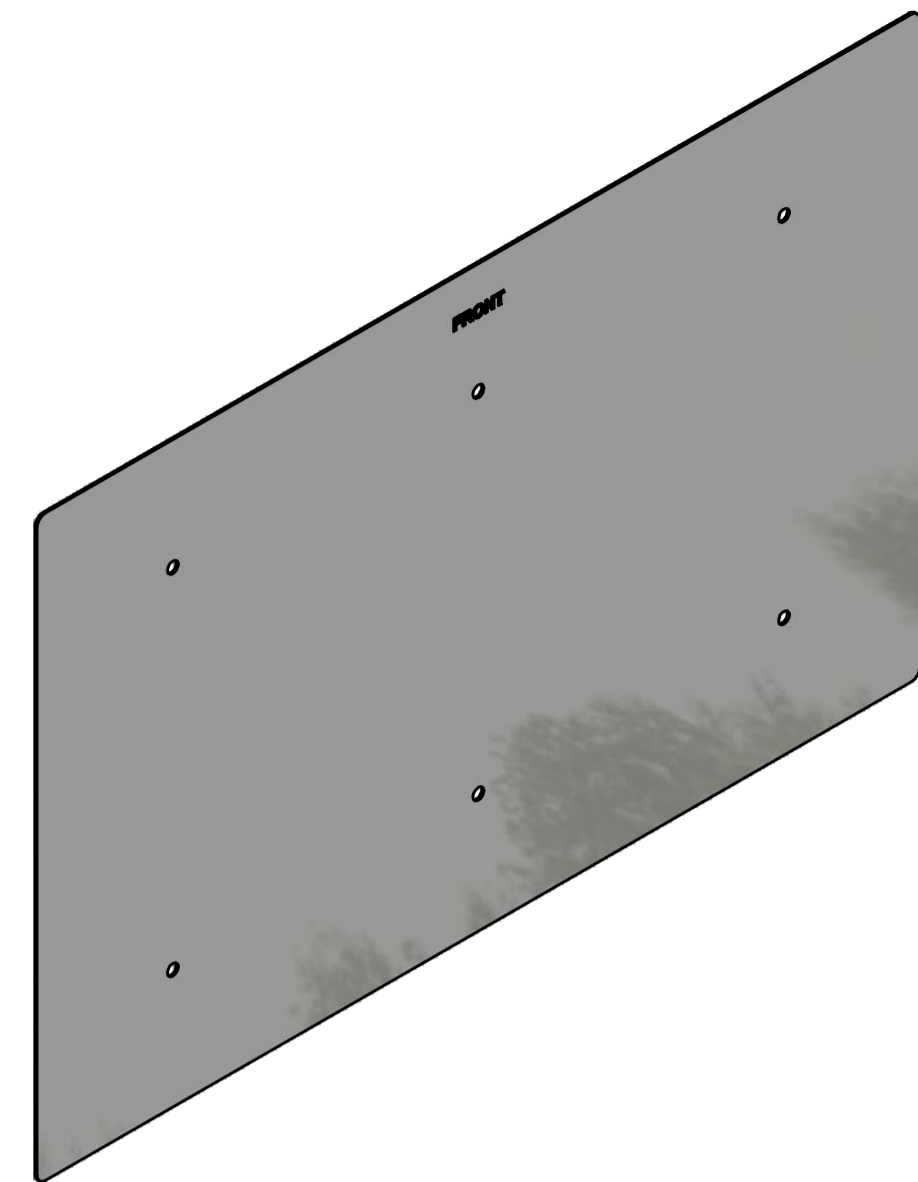
NOTES:
 1. DIMENSION TOLERANCE $\pm 0.5[\pm 0.02]$ UNLESS OTHERWISE NOTED.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
4	6	9000685V	BOLT, HEX HD. 1/4-28 x 7/8"	Steel, Mild
1	1	3021-232	SEAT PAN CUSHION MOUNTING PLATE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED: ✓ ANGLER $\pm 5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 6/17/2013	SEAT PAN MOUNTING PLATE ASS'Y. CHILD FRONTAL IMPACT SLED	
MATERIAL: HEAT TREAT: FINISH:	ENGINEER: APPROVED:	SIZE: A1 SCALE: 1 / 2 SHEET: 1 OF 1		DRAWING NUMBER: 3021-231 REV: C

12 11 10 9 8 7 6 5 4 3 2 1

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	DESIGNER
	A	DIMENSION 660.4 [26.00] WAS 698.5 [27.50], 69.9 [2.75] WAS 88.9 [3.50], 431.8 [17.00], 82.6 [3.25] WAS 95.3 [3.75], 44.5 [1.75] WAS 69.9 [2.75], AND 0.9 [0.03] WAS 1.5 [0.06]; ADDED MATERIAL NOTE.	6/17/2013	DW
	B	DIMENSION 101.6 [4.00] WAS 88.9 [2.75], 228.6 [9.00] WAS 260.4 [10.25], 88.9 [3.50] WAS 44.5 [1.75]	7/11/2016	DW
	C	ADDED NOTE 1; DRAWING TITLE WAS SEAT PAN MOUNTING PLATE	3/9/2018	DW
	D	CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE; DIMENSION 660 ±3 [26.00 ±0.12] WAS 660.4 [26.0], 432 ±3 [17.00 ±0.12] WAS 431.8 [17.00], (1.5 [0.06]) WAS 0.9 [0.03], ADDED 4X R6.4 [0.25]; MATERIAL WAS PL 0.9 [0.03"] x 431.8 [17.00"] x 660.4 [26.00"]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED NOTE 2	5/2/2019	DW



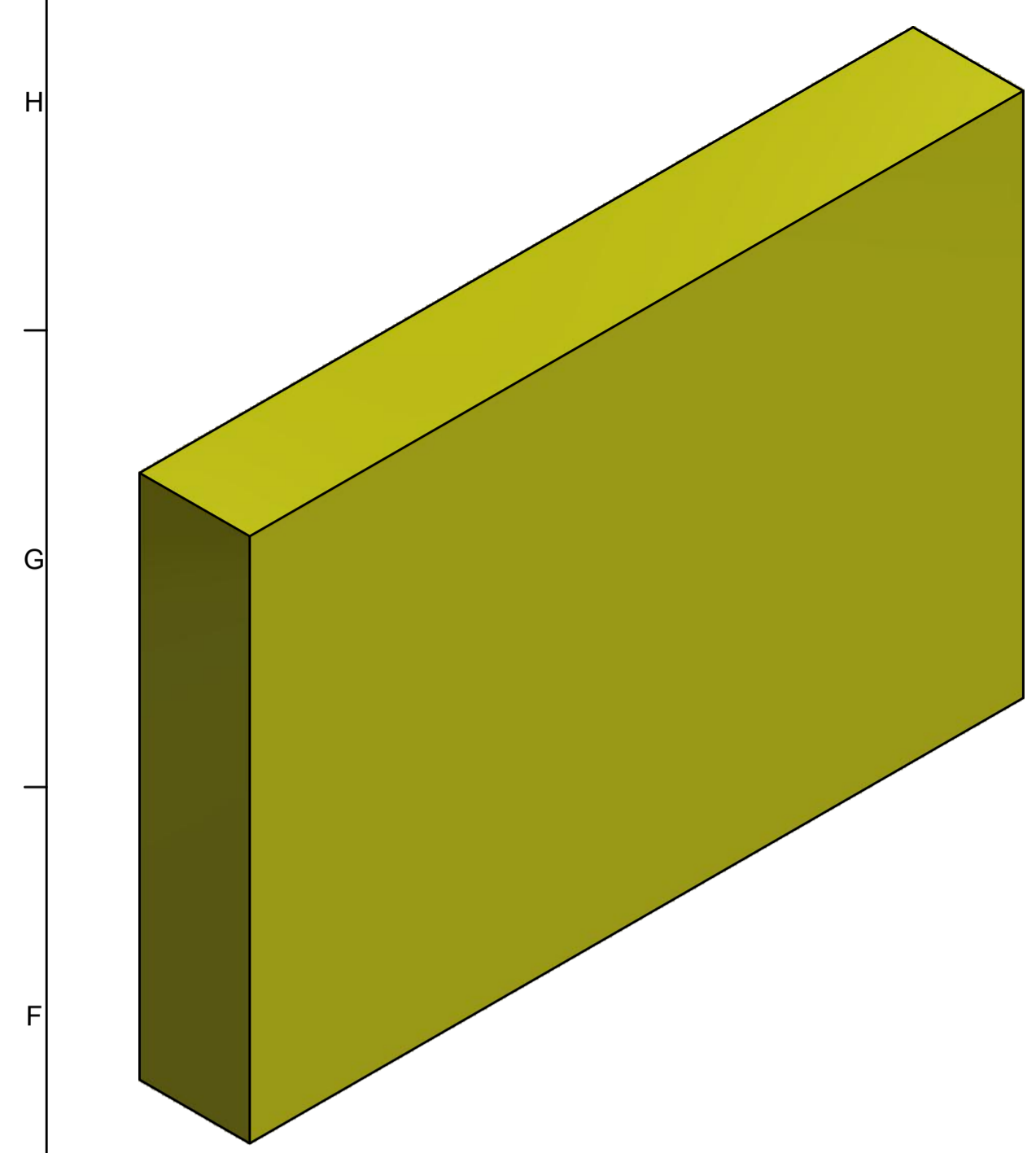
NOTES:

1. STAMP OR ETCH FRONT (3mm CHARACTERS) WHERE SHOWN.
2. DIMENSION TOLERANCES ±3 [±0.02] UNLESS OTHERWISE NOTED.

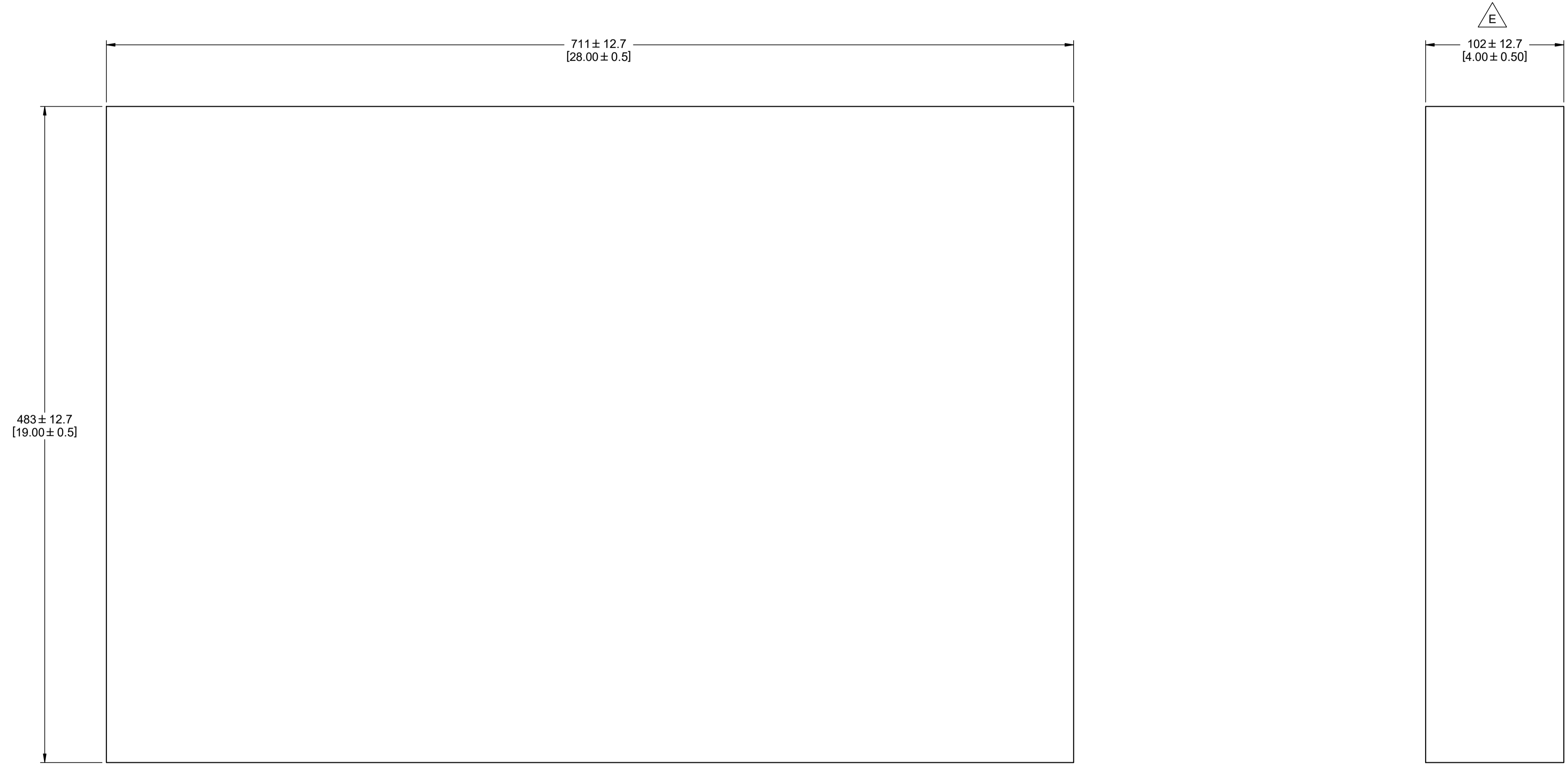
MATERIAL: PL 16 GA. x 431 [17.00"] x 660 [26.00"]

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 6/17/2013		SEAT PAN CUSHION MOUNTING PLATE CHILD FRONTAL/SIDE IMPACT SLED	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	APPROVED:	DRAWING NUMBER: 3021-232	REV: D	SHEET: 1 OF 1	THIRD ANGLE PROJECTION

12 11 10 9 8 7 6 5 4 3 2 1



REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 711.2 ±12.7 [28.00 ±0.5] WAS 698.5 [27.50], 482.6 ±12.7 [19.00 ±0.5] WAS 469.9 [18.50], AND 101.6 ±6.4 [4.00 ±0.25] WAS 101.6 [4.00]; REVISED NOTE 1, MATERIAL NOTE.	3/10/2015	DW
	B	MATERIAL NOTE WAS POLYURETHANE FOAM DENSITY 47 kg/m ³ (2.0 pcf) ±10% PER ASTM D3574-11 50% CFD 6.6 pcf ±10% FOR CERTIFICATION 50% ILD 440 N ±10%	4/23/2015	DW
	C	IN MATERIAL NOTE 6.6 kPa WAS 6.6 pcf	5/12/2015	DW
	D	ADDED 25% & 65% AS REFERENCE SPECS	10/15/2016	JHC
	E	CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE, DIMENSION (102 ±12.7 [4.00 ±0.50]) WAS (101.6 ±6.4 [4.00 ±0.25]); IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; REMOVED MATERIAL NOTE, ADDED PROCUREMENT SPECIFICATION TABLE AND TESTING CERTIFICATION SPECIFICATION TABLE	4/19/2019	DW



H
G
F
E
D
C
B
A

483 ± 12.7
[19.00 ± 0.5]

711 ± 12.7
[28.00 ± 0.5]

102 ± 12.7
[4.00 ± 0.50]

E

E

PROCUREMENT SPECIFICATIONS FOR 4" AND 2" FOAMS					
	Density Kg/m ³ (lb/ft ³)	50% CFD (kPa)	IFD 25% N (lb)	IFD 50% N (lb)	IFD 65% N (lb)
NHTSA Specifications on Preliminary Bench – Seat Pan (102 mm (4 inches))	47 / (2.9) ±10%	6.6 kPa ±10%	237 / (53.3) ±15% FOR REFERENCE	440 / (98.9) ±10% [396-484] FOR REFERENCE	725 / (162.9) ±15% FOR REFERENCE
NHTSA Specifications on Preliminary Bench – Seat Back (51 mm (2 inches))	47 / (2.9) ±10%	6.6 kPa ±10%	157 / (35.3) FOR REFERENCE	300 / (67.4) ±15% [255-345] FOR REFERENCE	480 / (107.9) FOR REFERENCE

TEST CERTIFICATION SPECIFICATIONS FOR 4" AND 2" FOAMS			
	IFD 25% N (lb)	IFD 50% N (lb)	IFD 65% N (lb)
NHTSA Specifications on Preliminary Bench – Seat Pan (102 mm (4 inches))	237 / (53.3) 15% FOR REFERENCE	440 / (98.9) ±15% [374-506] FOR REFERENCE	725 / (162.9) ±15% FOR REFERENCE
NHTSA Specifications on Preliminary Bench – Seat Back (51 mm (2 inches))	157 / (35.3) FOR REFERENCE	300 / (67.4) ±15% [255-345] FOR REFERENCE	480 / (107.9) FOR REFERENCE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMAL:
X ±.5
X.X ±.2
X.XX ±.1

MACHINED
✓
ANGLES
±.5°

ASME Y14.5M - 1994
DO NOT SCALE DRAWING

VEHICLE RESEARCH and TEST CENTER

APPROVALS: _____ DATE: 6/17/2013

DRAWN: Dave Walker

CHECKED: _____

ENG: _____

APPROVED: _____

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

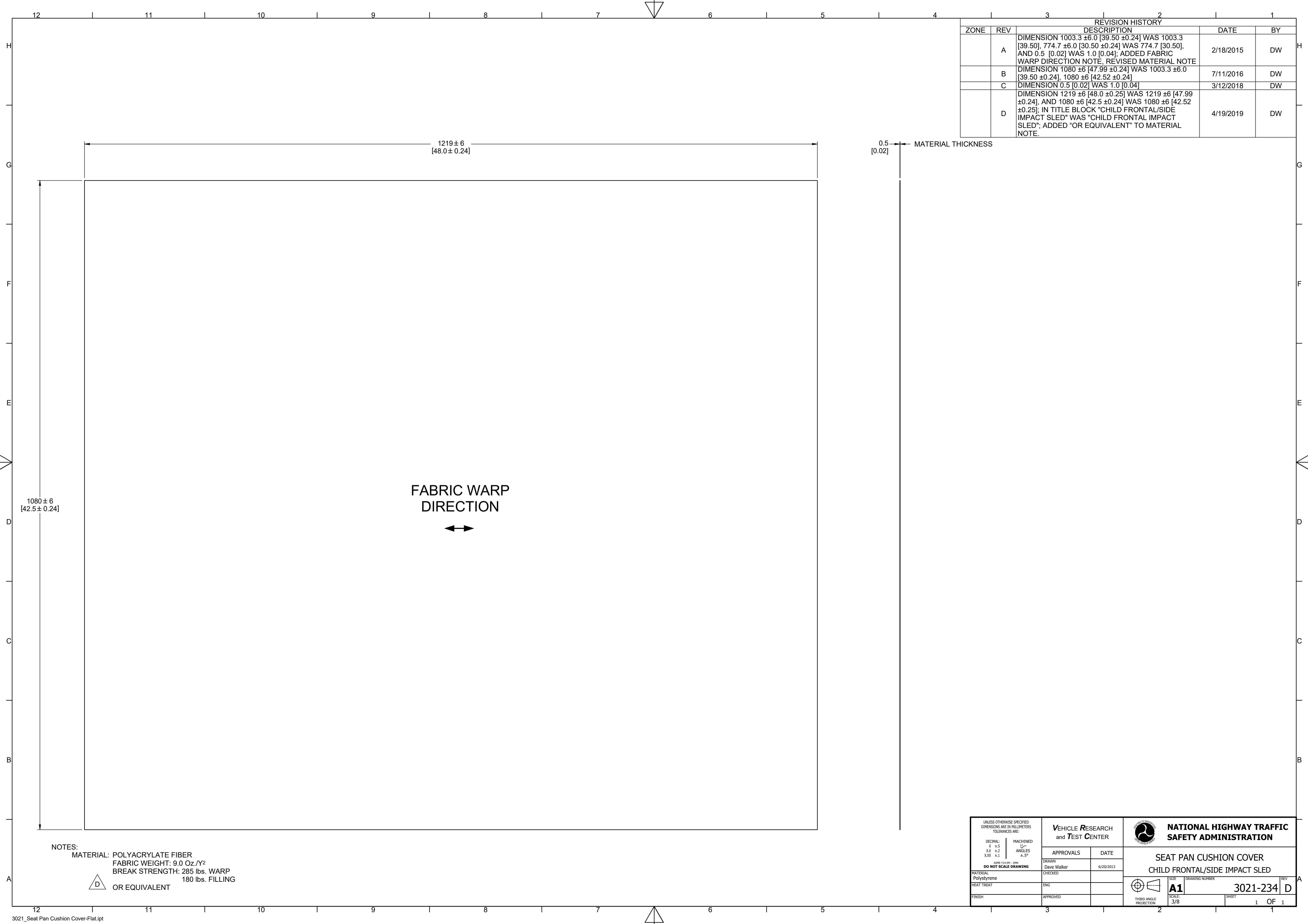
SEAT PAN CUSHION
CHILD FRONTAL/SIDE IMPACT SLED

SIZE: **A1** DRAWING NUMBER: 3021-233 REV: **E**

SCALE: 1/2 SHEET: 1 OF 1

THIRD ANGLE PROJECTION

12 11 10 9 8 7 6 5 4 3 2 1



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 1003.3 ± 6.0 [39.50 ± 0.24] WAS 1003.3 [39.50], 774.7 ± 6.0 [30.50 ± 0.24] WAS 774.7 [30.50], AND 0.5 [0.02] WAS 1.0 [0.04]; ADDED FABRIC WARP DIRECTION NOTE, REVISED MATERIAL NOTE	2/18/2015	DW
	B	DIMENSION 1080 ± 6 [47.99 ± 0.24] WAS 1003.3 ± 6.0 [39.50 ± 0.24], 1080 ± 6 [42.52 ± 0.24]	7/11/2016	DW
	C	DIMENSION 0.5 [0.02] WAS 1.0 [0.04]	3/12/2018	DW
	D	DIMENSION 1219 ± 6 [48.0 ± 0.25] WAS 1219 ± 6 [47.99 ± 0.24], AND 1080 ± 6 [42.5 ± 0.24] WAS 1080 ± 6 [42.52 ± 0.25]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED "OR EQUIVALENT" TO MATERIAL NOTE.	4/19/2019	DW


1080 ± 6
[42.5 ± 0.24]


1219 ± 6
[48.0 ± 0.24]

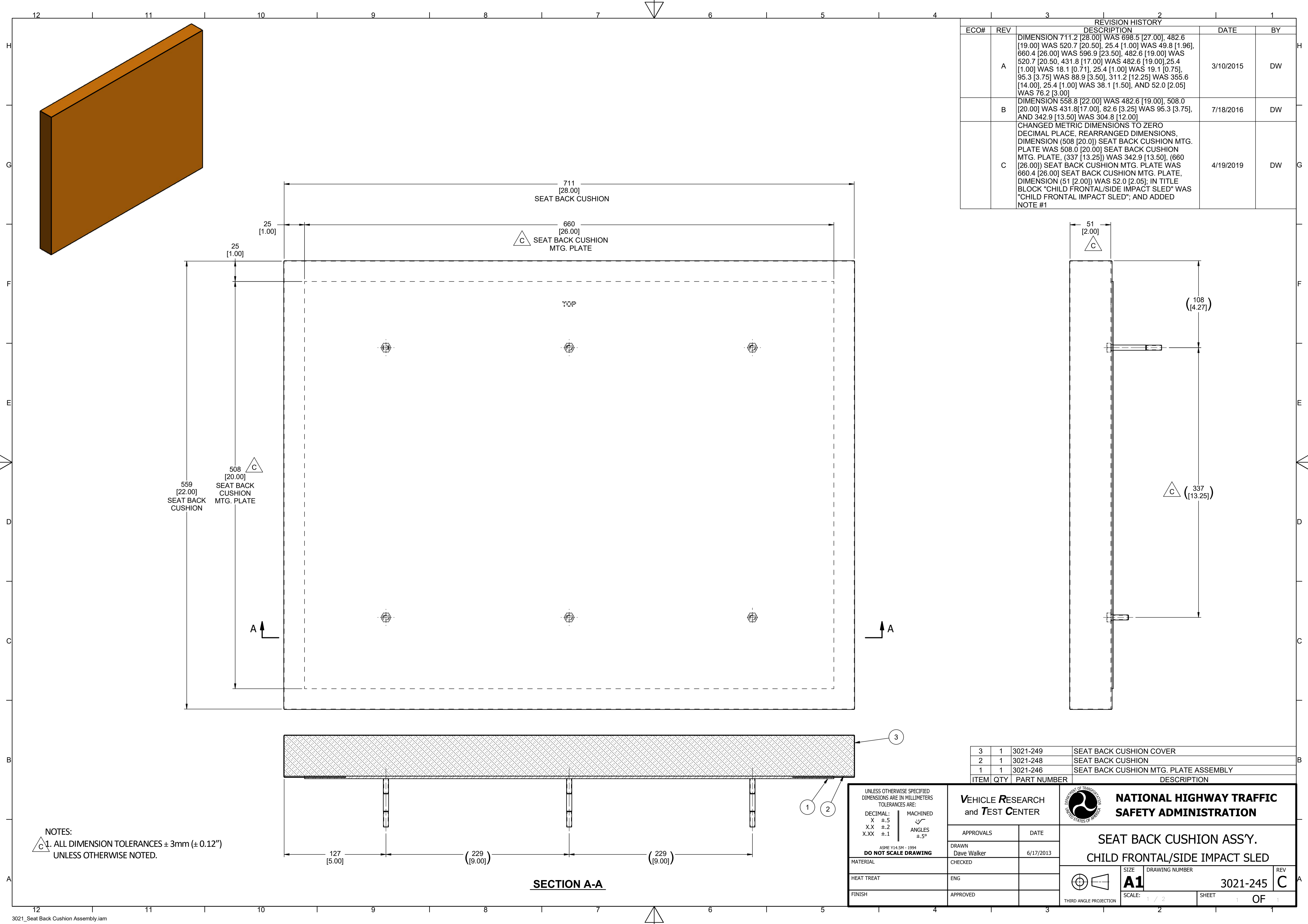
0.5
[0.02] MATERIAL THICKNESS

FABRIC WARP
DIRECTION



NOTES:
 MATERIAL: POLYACRYLATE FIBER
 FABRIC WEIGHT: 9.0 Oz./Y²
 BREAK STRENGTH: 285 lbs. WARP
 180 lbs. FILLING
 OR EQUIVALENT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
DECIMAL: X ± 0.5 XX ± 0.2 XXX ± 0.1	MACHINED U ANGLES ± 5°	APPROVALS	DATE	SEAT PAN CUSHION COVER CHILD FRONTAL/SIDE IMPACT SLED	
DO NOT SCALE DRAWING		DRAWN Dave Walker	6/20/2013	DRAWING NUMBER 3021-234	
MATERIAL Polystyrene	CHECKED	ENG		SIZE A1	REV D
HEAT TREAT		APPROVED		SCALE 3/8	SHEET 1 OF 1
FINISH				THIRD ANGLE PROJECTION	



REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 711.2 [28.00] WAS 698.5 [27.00], 482.6 [19.00] WAS 520.7 [20.50], 25.4 [1.00] WAS 49.8 [1.96], 660.4 [26.00] WAS 596.9 [23.50], 482.6 [19.00] WAS 520.7 [20.50], 431.8 [17.00] WAS 482.6 [19.00], 25.4 [1.00] WAS 18.1 [0.71], 25.4 [1.00] WAS 19.1 [0.75], 95.3 [3.75] WAS 88.9 [3.50], 311.2 [12.25] WAS 355.6 [14.00], 25.4 [1.00] WAS 38.1 [1.50], AND 52.0 [2.05] WAS 76.2 [3.00]	3/10/2015	DW
	B	DIMENSION 558.8 [22.00] WAS 482.6 [19.00], 508.0 [20.00] WAS 431.8 [17.00], 82.6 [3.25] WAS 95.3 [3.75], AND 342.9 [13.50] WAS 304.8 [12.00]	7/18/2016	DW
	C	CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE, REARRANGED DIMENSIONS, DIMENSION (508 [20.0]) SEAT BACK CUSHION MTG. PLATE WAS 508.0 [20.0] SEAT BACK CUSHION MTG. PLATE, (337 [13.25]) WAS 342.9 [13.50], (660 [26.00]) SEAT BACK CUSHION MTG. PLATE WAS 660.4 [26.00] SEAT BACK CUSHION MTG. PLATE, DIMENSION (51 [2.00]) WAS 52.0 [2.05]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; AND ADDED NOTE #1	4/19/2019	DW

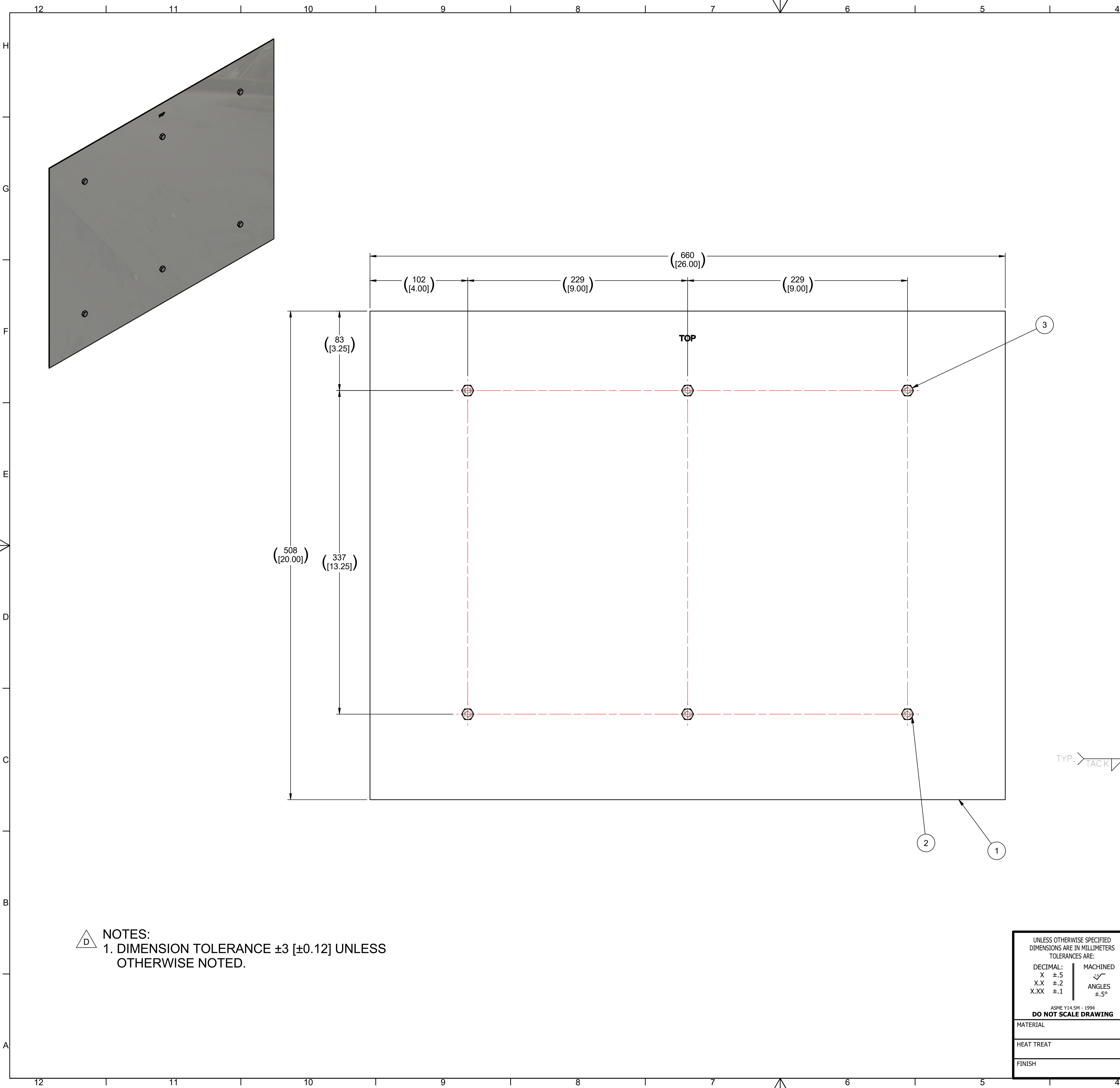
ITEM	QTY	PART NUMBER	DESCRIPTION
3	1	3021-249	SEAT BACK CUSHION COVER
2	1	3021-248	SEAT BACK CUSHION
1	1	3021-246	SEAT BACK CUSHION MTG. PLATE ASSEMBLY

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:
 DECIMAL: X ±.5, X.X ±.2, X.XX ±.1
 MACHINED: ✓, ANGLES ±.5°
 ASME Y14.5M - 1994
DO NOT SCALE DRAWING

VEHICLE RESEARCH and TEST CENTER
 APPROVALS: Dave Walker
 CHECKED: []
 HEAT TREAT: ENG
 APPROVED: []

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
 SEAT BACK CUSHION ASS'Y.
 CHILD FRONTAL/SIDE IMPACT SLED
 DRAWING NUMBER: 3021-245
 REV: C
 SCALE: 1 / 2
 SHEET: 1 OF 1

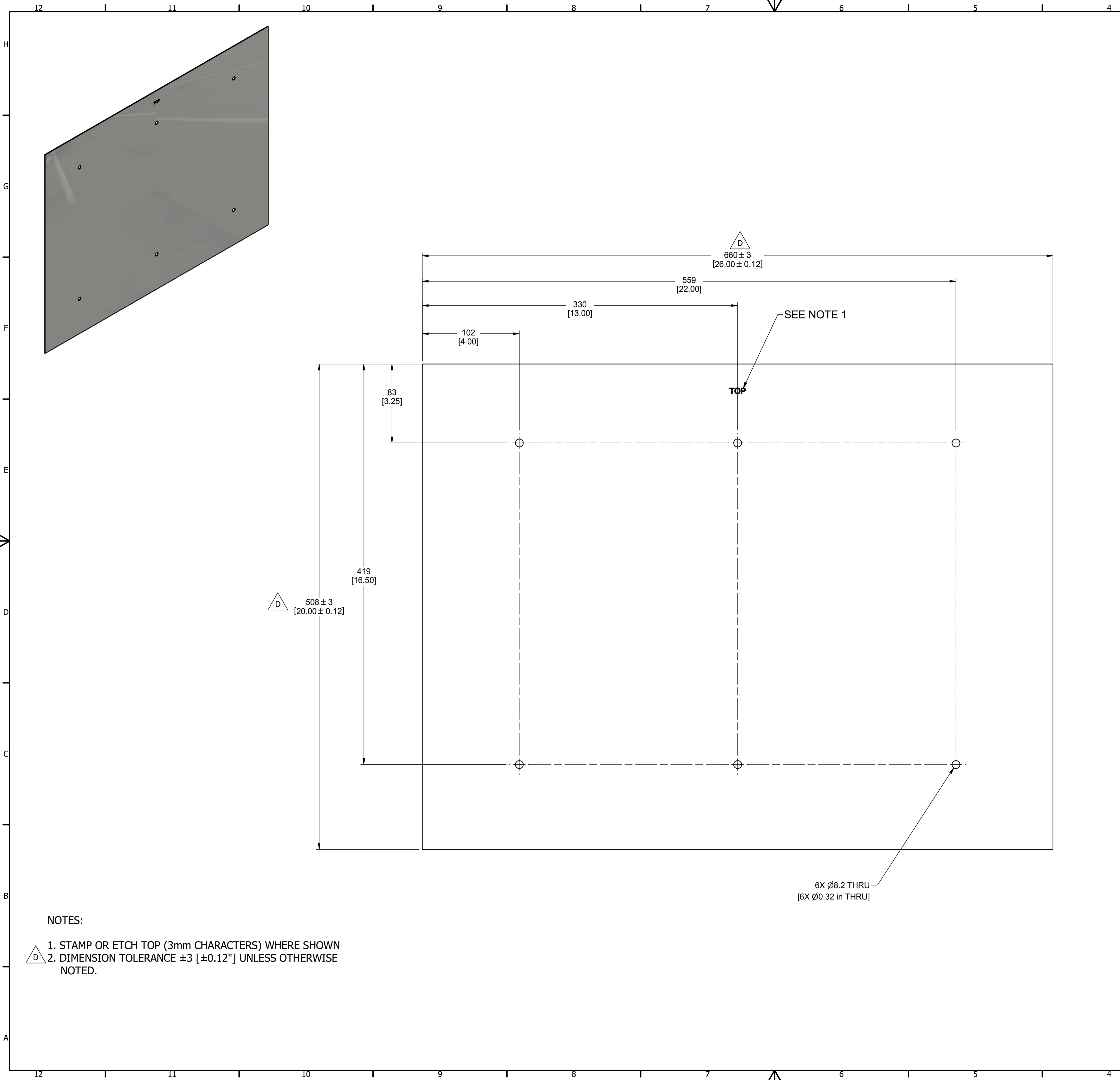


REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 660.4 [26.00] WAS 596.9 [23.50], 69.9 [2.75] WAS 38.1 [1.50], 431.8 [17.00] WAS 482.6 [19.00], 95.3 [3.75] WAS 88.9 [3.50], 311.2 [12.25] WAS 355.6 [14.00], 25.4 [1.00] WAS 38.1 [1.50], AND 0.9 [0.03] WAS 0.9 [0.04]	2/18/2015	DW
	B	DIMENSION 101.6 [4.00] WAS 69.9 [2.75], 228.6 [9.00] WAS 260.4 [10.25], 508.0 [20.00] WAS 431.8 [17.00], 82.3 [3.25] WAS 95.3 [3.75], 336.6 [13.25] WAS 311.2 [12.25], 88.9 [3.50] WAS 25.4 [1.00], AND 1.5 [0.06] WAS 0.9 [0.03]; QTY. OF ITEM #2 WAS 6, ADDED ITEM #3	4/7/2016	DW
	C	REVISED ITEM #1, 3021-247, SEAT BACK CUSHION MTG. PLATE	3/12/2018	DW
	D	CHANGED ALL DIMENSIONS TO REFERENCE, CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE; DIMENSION (336.6 [13.25]) WAS 342.9 [13.50]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED NOTE 1	5/2/2019	DW

NOTES:
 1. DIMENSION TOLERANCE ± 3 [± 0.12] UNLESS OTHERWISE NOTED.

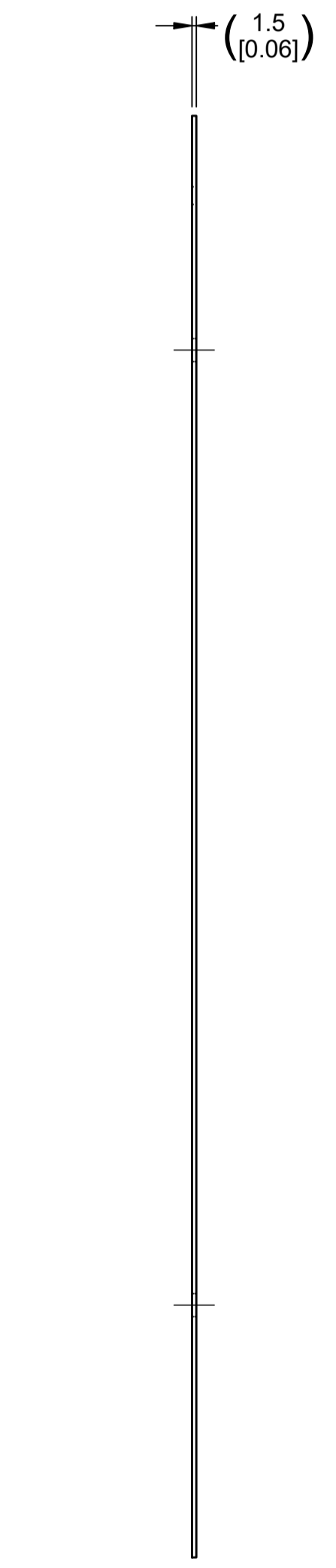
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
3	3	9000611V	BOLT, HEX HD. 1/4-28 x 2 1/2"	Steel, Mild
2	3	9000685V	BOLT, HEX HD. 1/4-28 x 7/8"	Steel, Mild
1	1	3021-247	SEAT BACK CUSHION MTG. PLATE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED: ✓ ANGLER $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING		VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
APPROVALS		DATE		SEAT BACK CUSHION MTG. PLATE ASSEMBLY	
DRAWN: Dave Walker		6/17/2013		CHILD FRONTAL/SIDE IMPACT SLED	
CHECKED				THIRD ANGLE PROJECTION	
HEAT TREAT		ENG		SIZE: A1 DRAWING NUMBER: 3021-246 SCALE: 1 / 2	
FINISH		APPROVED		REV: D SHEET: 1 OF 1	



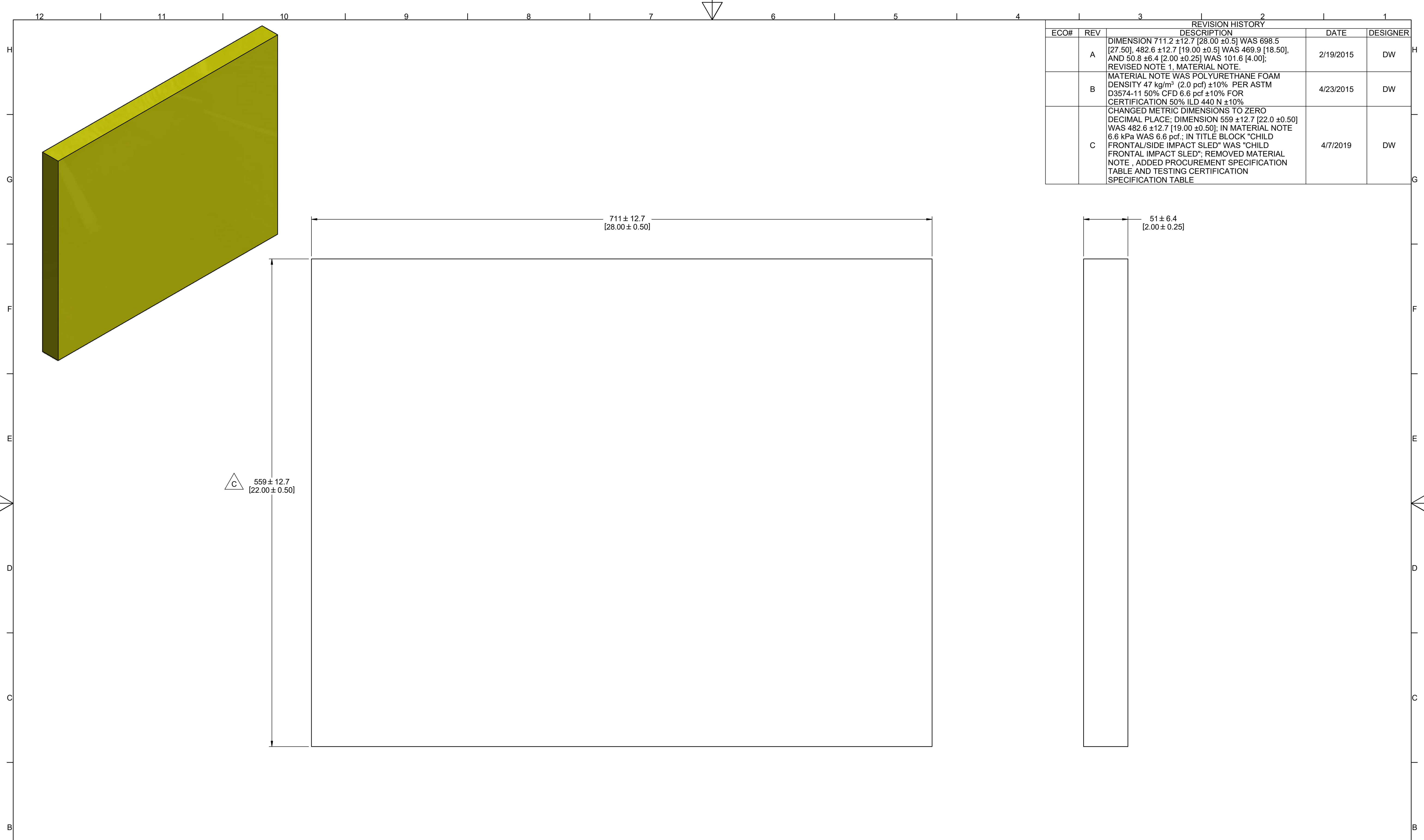
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 711.2 [28.0] WAS 596.9 [23.50], 69.9 [2.75] WAS 38.1 [1.50], 431.8 [17.00] WAS 482.6 [19.00], 95.3 [3.75] WAS 88.9 [3.50], 311.2 [12.25] WAS 355.6 [14.00], 25.4 [1.00] WAS 38.1 [1.50], AND 0.9 [0.03] WAS 0.9 [0.04]	2/18/2015	DW
	B	DIMENSION 508.0 [20.00] WAS 431.8 [17.00], 82.6 [3.25] WAS 24.5 [1.00], 342.9 [13.50] WAS 311.2 [12.25], 228.6 [9.00] WAS 260.4 [10.25], 101.6 [4.00] WAS 69.9 [2.75], AND (1.5 [0.06]) WAS 0.9 [0.03]	7/11/2016	DW
	C	ADDED NOTE 1	3/12/2018	DW
	D	CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE; DIMENSION 660 ±3 [26.00 ±0.12] WAS 660.4 [26.00], AND 508 ±3 [20.00 ±0.12] WAS 508.0 [20.00]; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED NOTE 2	5/2/2019	DW

- NOTES:
1. STAMP OR ETCH TOP (3mm CHARACTERS) WHERE SHOWN
 2. DIMENSION TOLERANCE ±3 [±0.12"] UNLESS OTHERWISE NOTED.



MATERIAL: PL 16 GA. x 508mm [20.00"] x 660mm [26.00"]

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ±.5, XX ±.2, XXX ±.1 MACHINED: □, ANGLES: ±.5° <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER	
	APPROVALS: Dave Walker CHECKED:	DATE: 6/17/2013
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	ENG: APPROVED:	SEAT BACK CUSHION MTG. PLATE CHILD FRONTAL/SIDE IMPACT SLED
THIRD ANGLE PROJECTION	SIZE: A1 SCALE: 1 / 2	DRAWING NUMBER: 3021-247 REV: D SHEET: 1 OF 1



REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	DESIGNER
	A	DIMENSION 711.2 ± 12.7 [28.00 ± 0.5] WAS 698.5 [27.50], 482.6 ± 12.7 [19.00 ± 0.5] WAS 469.9 [18.50], AND 50.8 ± 6.4 [2.00 ± 0.25] WAS 101.6 [4.00]; REVISED NOTE 1, MATERIAL NOTE.	2/19/2015	DW
	B	MATERIAL NOTE WAS POLYURETHANE FOAM DENSITY 47 kg/m ³ (2.0 pcf) ± 10% PER ASTM D3574-11 50% CFD 6.6 pcf ± 10% FOR CERTIFICATION 50% ILD 440 N ± 10%	4/23/2015	DW
	C	CHANGED METRIC DIMENSIONS TO ZERO DECIMAL PLACE; DIMENSION 559 ± 12.7 [22.0 ± 0.50] WAS 482.6 ± 12.7 [19.00 ± 0.50]; IN MATERIAL NOTE 6.6 kPa WAS 6.6 pcf.; IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; REMOVED MATERIAL NOTE, ADDED PROCUREMENT SPECIFICATION TABLE AND TESTING CERTIFICATION SPECIFICATION TABLE	4/7/2019	DW

C 559 ± 12.7
[22.00 ± 0.50]

711 ± 12.7
[28.00 ± 0.50]

51 ± 6.4
[2.00 ± 0.25]

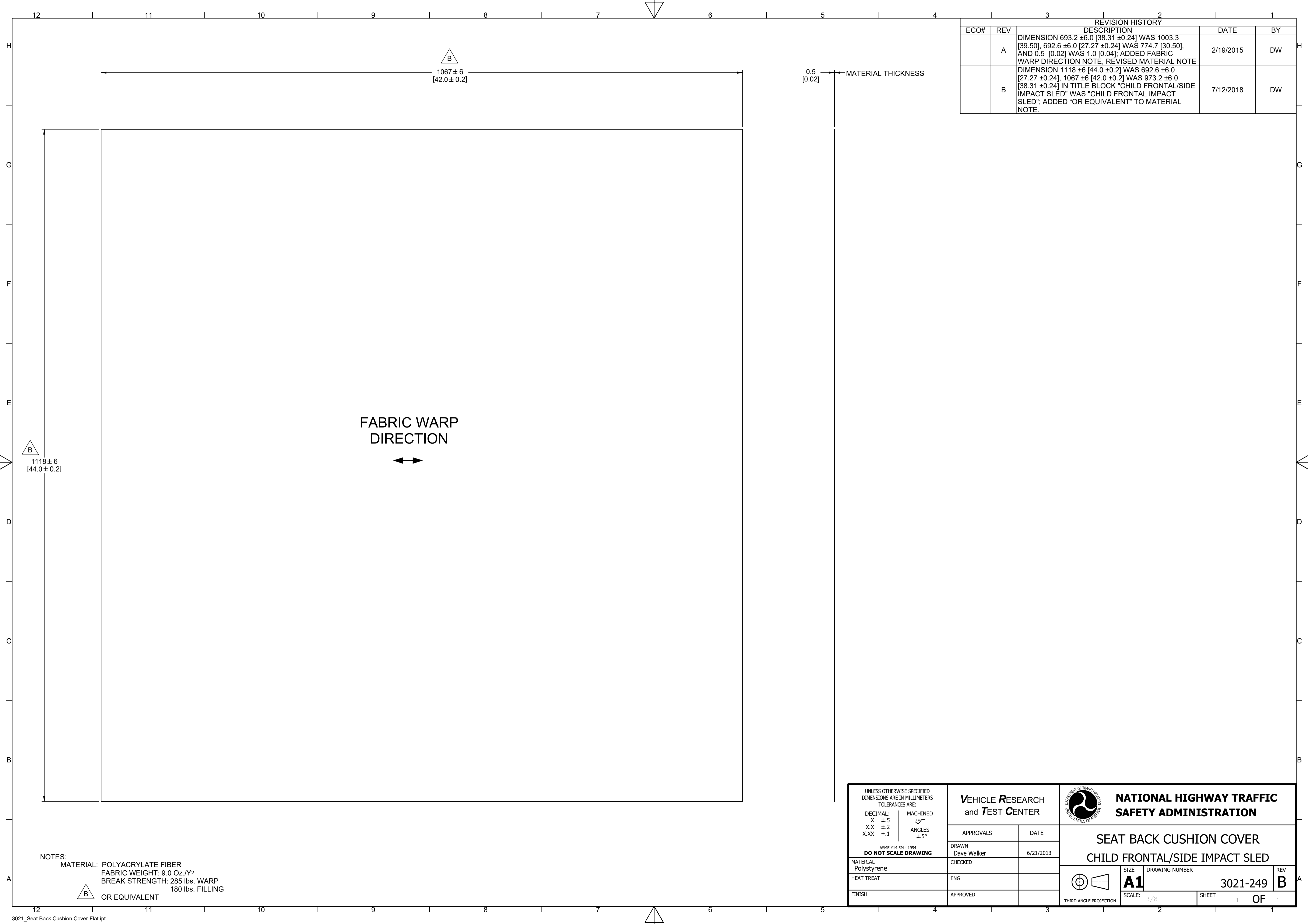
PROCUREMENT SPECIFICATIONS FOR 4" AND 2" FOAMS

	Density Kg/m ³ (lb/ft ³)	50% CFD (kPa)	IFD 25% N (lb) ±15%	IFD 50% N (lb) ±10%	IFD 65% N (lb) ±15%
NHTSA Specifications on Preliminary Bench – Seat Pan (102 mm (4 inches))	47 / (2.9) ±10%	6.6 kPa ±10%	237 / (53.3) ±15% FOR REFERENCE [396-484]	440 / (98.9) ±10% [396-484]	725 / (162.9) ±15% FOR REFERENCE
NHTSA Specifications on Preliminary Bench – Seat Back (51 mm (2 inches))	47 / (2.9) ±10%	6.6 kPa ±10%	157 / (35.3) ±15% FOR REFERENCE [255-345]	300 / (67.4) ±15% [255-345]	480 / (107.9) ±15% FOR REFERENCE

TEST CERTIFICATION SPECIFICATIONS FOR 4" AND 2" FOAMS

	IFD 25% N (lb)	IFD 50% N (lb)	IFD 65% N (lb)
NHTSA Specifications on Preliminary Bench – Seat Pan (102 mm (4 inches))	237 / (53.3) ±15% FOR REFERENCE [396-484]	440 / (98.9) ±15% [374-506]	725 / (162.9) ±15% FOR REFERENCE
NHTSA Specifications on Preliminary Bench – Seat Back (51 mm (2 inches))	157 / (35.3) ±15% FOR REFERENCE [255-345]	300 / (67.4) ±15% [255-345]	480 / (107.9) ±15% FOR REFERENCE

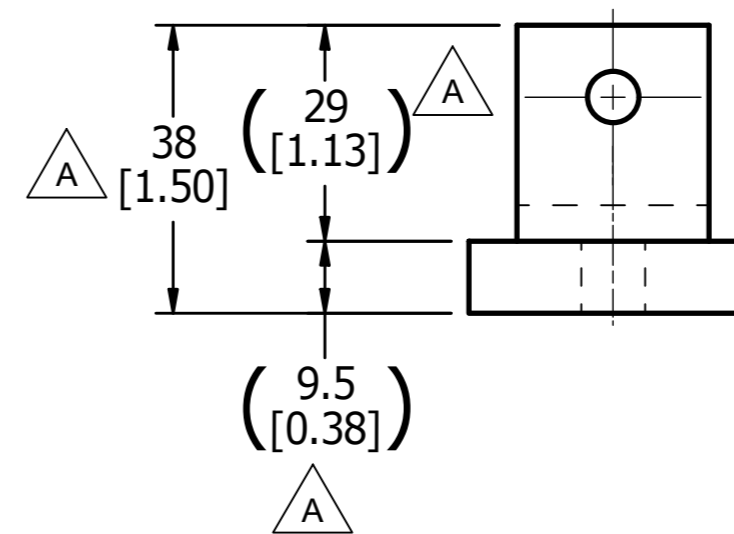
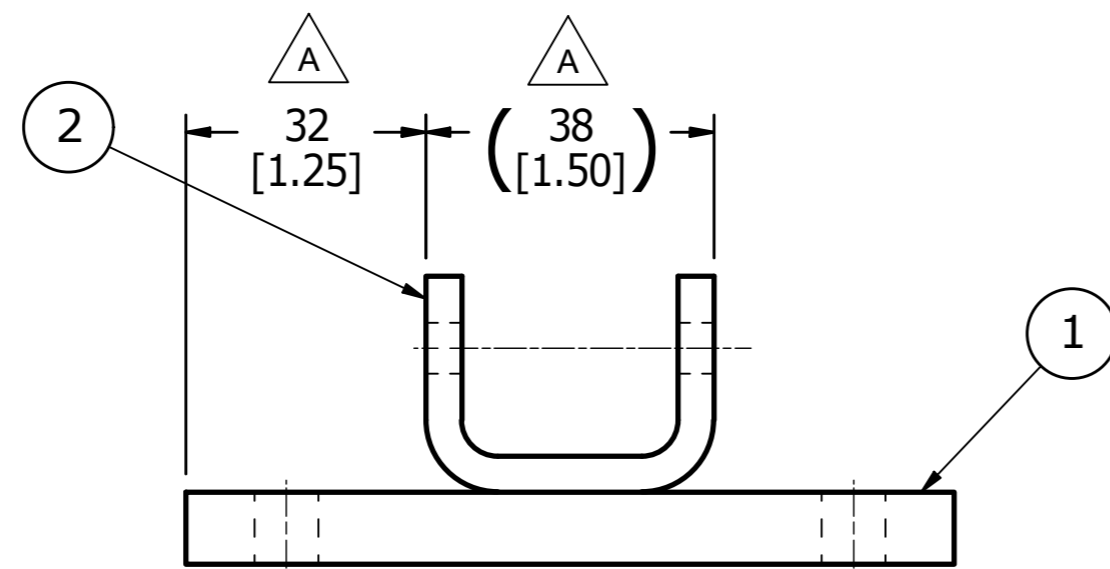
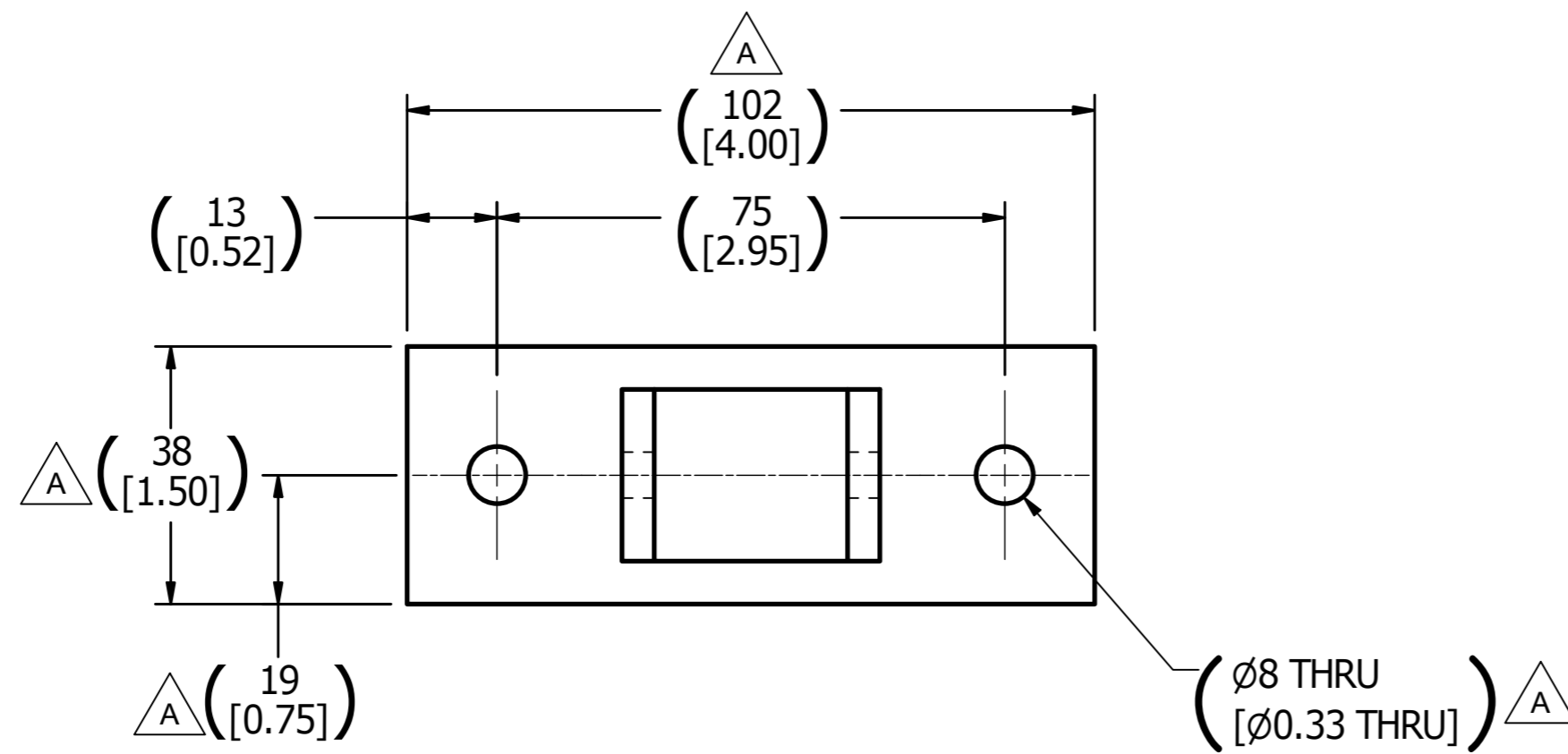
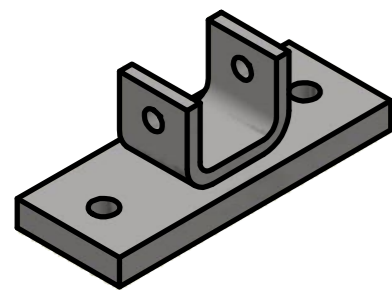
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE: 6/17/2013	
MATERIAL: Polystyrene HEAT TREAT: FINISH:	APPROVED:	SIZE: A1 SCALE: 1 / 2 SHEET: 1 OF 1	DRAWING NUMBER: 3021-248 REV: C



REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 693.2 ±6.0 [38.31 ±0.24] WAS 1003.3 [39.50], 692.6 ±6.0 [27.27 ±0.24] WAS 774.7 [30.50], AND 0.5 [0.02] WAS 1.0 [0.04]; ADDED FABRIC WARP DIRECTION NOTE, REVISED MATERIAL NOTE	2/19/2015	DW
	B	DIMENSION 1118 ±6 [44.0 ±0.2] WAS 692.6 ±6.0 [27.27 ±0.24], 1067 ±6 [42.0 ±0.2] WAS 973.2 ±6.0 [38.31 ±0.24] IN TITLE BLOCK "CHILD FRONTAL/SIDE IMPACT SLED" WAS "CHILD FRONTAL IMPACT SLED"; ADDED "OR EQUIVALENT" TO MATERIAL NOTE.	7/12/2018	DW

NOTES:
 MATERIAL: POLYACRYLATE FIBER
 FABRIC WEIGHT: 9.0 Oz./Y²
 BREAK STRENGTH: 285 lbs. WARP 180 lbs. FILLING
 OR EQUIVALENT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED: ENG APPROVED:	DATE: 6/21/2013	
MATERIAL: Polystyrene HEAT TREAT: FINISH:	SIZE: A1 SCALE: 3/8 THIRD ANGLE PROJECTION	DRAWING NUMBER: 3021-249 SHEET 1 OF 1	REV: B

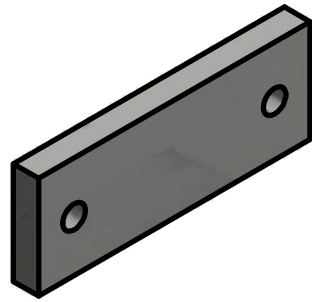


REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION (102 [4.00]) WAS (101.6 [4.00]), (38 [1.50]) WAS 38.1 [1.50], (19 [0.75]) WAS (19.1 [0.75]), 32 [1.25] WAS 31.8 [1.25], (38 [1.50]) WAS 38.1 ∅[1.50], 38 [1.50] WAS 38.1 [1.50], (29 [1.13]) WAS 28.6 [1.13], HOLE NOTE (∅8.4 THRU [∅0.33 THRU]) WAS ∅8.4 THRU [∅0.33 THRU]; ADDED NOTE 1	7/31/2018	DW

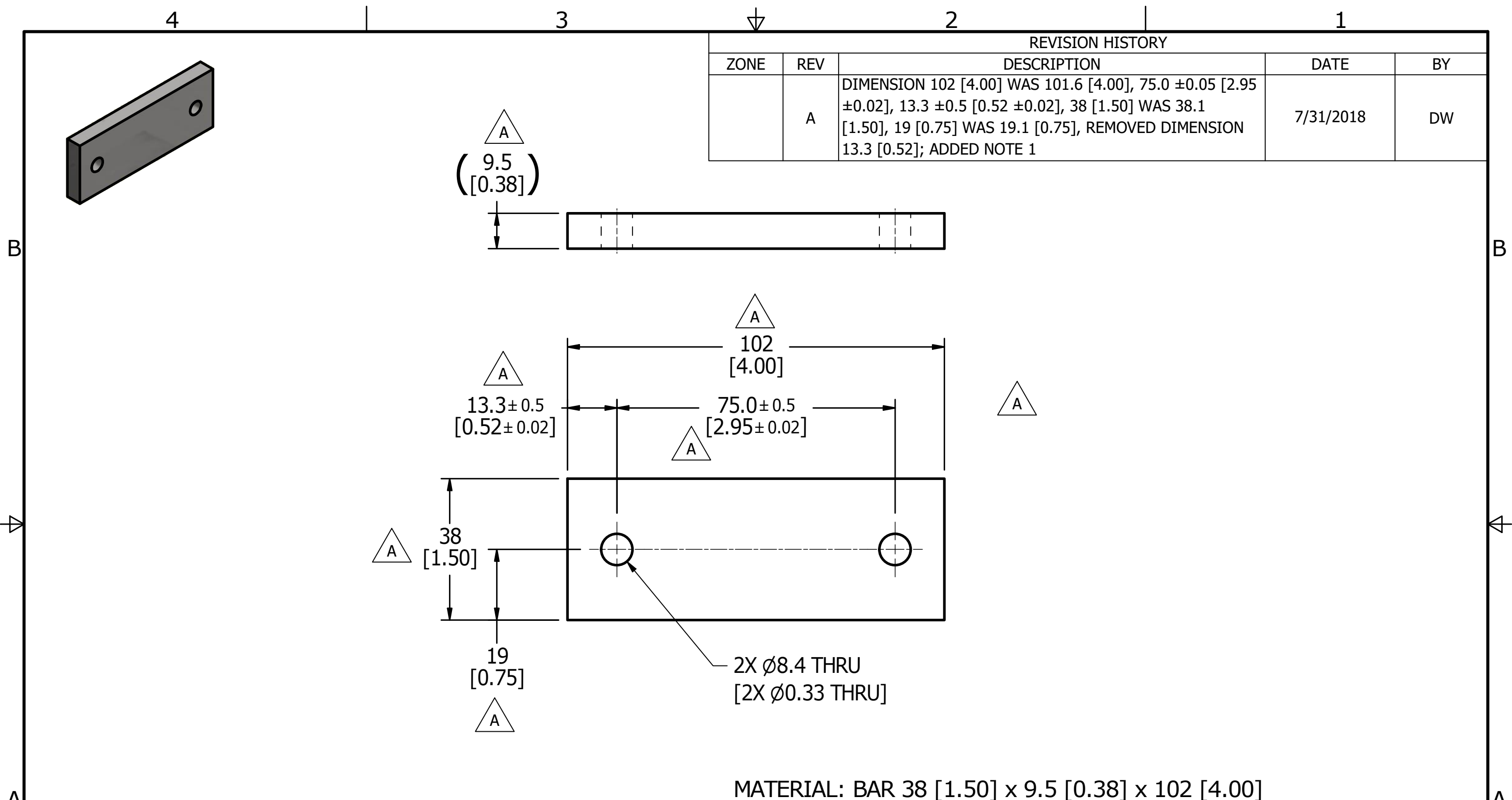
NOTES:
 A 1. DIMENSION TOLERANCES ±3mm [±0.12"] UNLESS OTHERWISE NOTED.

ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	2921-347	TETHER ANCHOR - ANCHOR BAR
1	1	2921-346	TETHER ANCHOR BASE PLATE

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, XX ±.2, XXX ±.1 MACHINED ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 2/9/2016	
MATERIAL: HEAT TREAT: FINISH:	ENG: APPROVED:	SIZE: A2 SCALE: 1:1	DRAWING NUMBER: 2921-345 SHEET: 1 OF 1



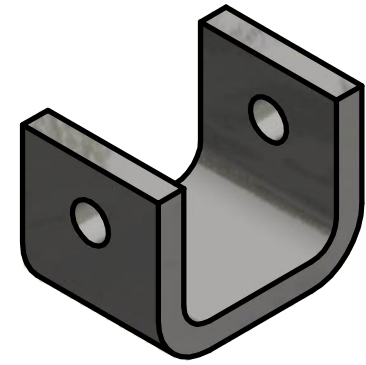
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 102 [4.00] WAS 101.6 [4.00], 75.0 ±0.05 [2.95 ±0.02], 13.3 ±0.5 [0.52 ±0.02], 38 [1.50] WAS 38.1 [1.50], 19 [0.75] WAS 19.1 [0.75], REMOVED DIMENSION 13.3 [0.52]; ADDED NOTE 1	7/31/2018	DW



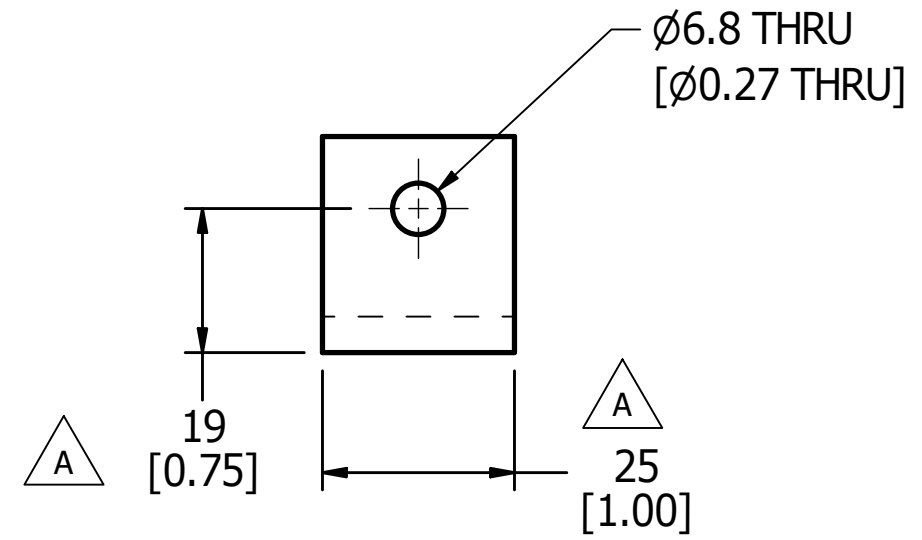
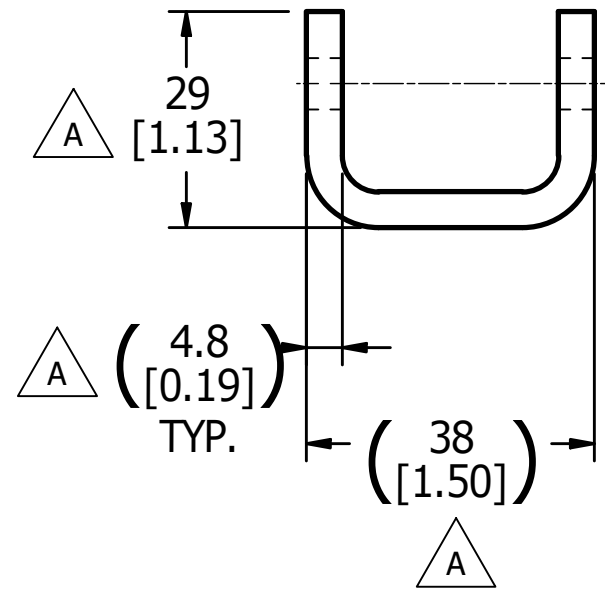
NOTES:
 1. DIMENSION TOLERANCES ±3mm [±0.12"] UNLESS OTHERWISE NOTED.

MATERIAL: BAR 38 [1.50] x 9.5 [0.38] x 102 [4.00]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED 1/6 ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 2/9/2016		TETHER ANCHOR BASE PLATE	



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 29 [1.13] WAS 28.6 [1.13], (4.8 [0.19]) TYP. WAS 4.8 [0.19] TYP., (38 [1.50]) WAS 38.1 [1.50], 25 [1.00] WAS 25.4 [1.00], 19 [0.75] WAS 19.1 [0.75]; ADDED NOTE 1	7/31/2018	DW

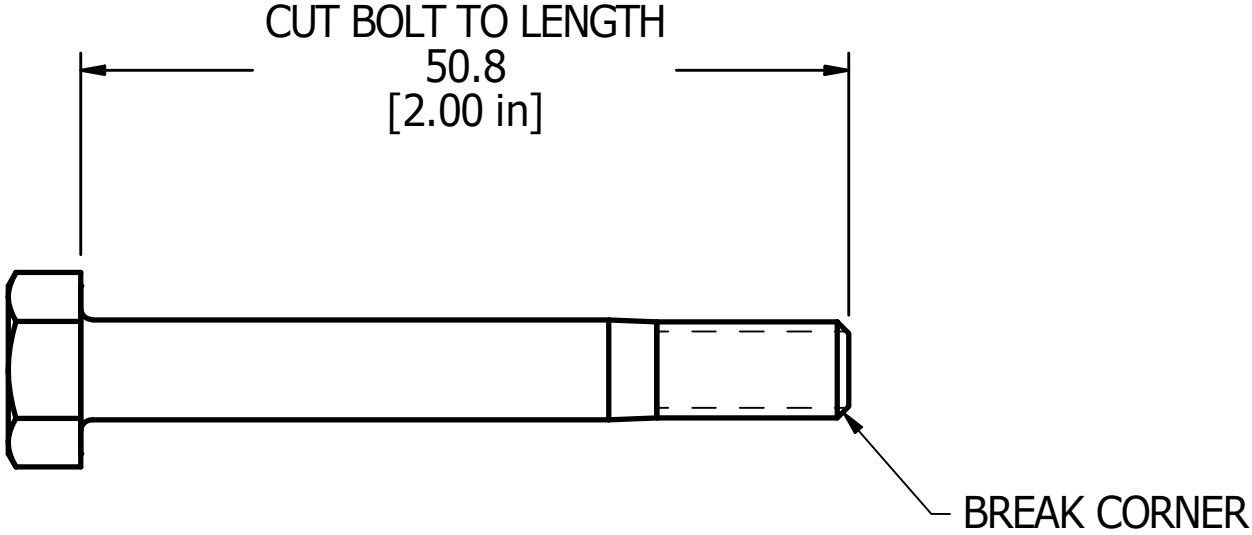


NOTES:
 1. DIMENSION TOLERANCES $\pm 3\text{mm}$ [$\pm 0.12''$] UNLESS OTHERWISE NOTED.

MATERIAL: T.S. 1 1/2 x 1 1/2 x 3/16 x 25mm [1.0"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED 1/6 ANGLE $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN Dave Walker CHECKED	DATE 2/9/2016		TETHER ANCHOR - ANCHOR BAR	
MATERIAL Steel, Mild HEAT TREAT FINISH	ENG APPROVED		SIZE A3 SCALE: 1 : 1	DRAWING NUMBER 2921-347 SHEET 1 OF 1	REV A

REVISION HISTORY				
ECR#	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE #1; MATERIAL WAS MILD STEEL	5/1/2019	DW



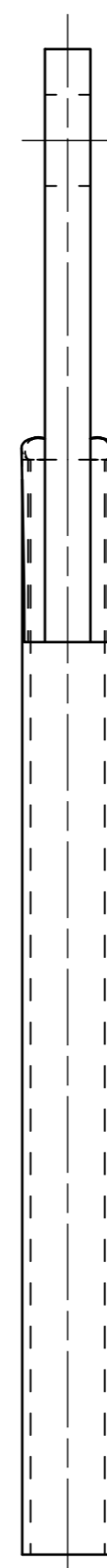
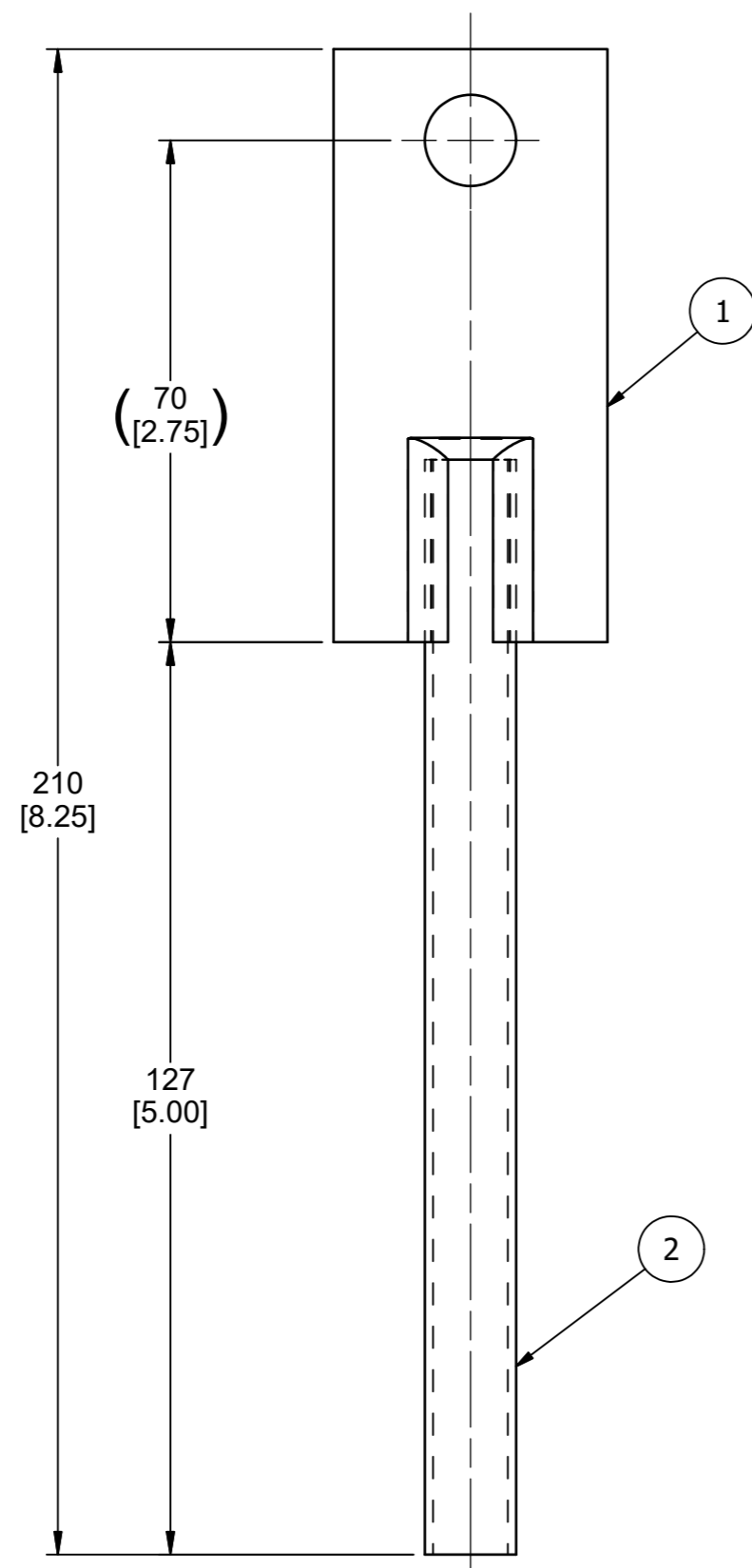
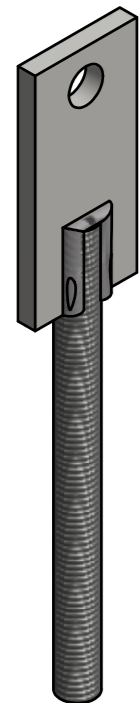
NOTES:
 1. DIMENSION TOLERANCES $\pm 3\text{mm}$ [$\pm 0.12''$] UNLESS OTHERWISE NOTED.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	9000696V	BOLT, HEX HD, 1/4-20 x 2 1/4	A-490

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED $\frac{1.6}{\sqrt{2}}$ ANGLES $\pm 0.5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 11/16/2016	
MATERIAL HEAT TREAT FINISH	 THIRD ANGLE PROJECTION	SIZE A3	DRAWING NUMBER 3021-332
		SCALE: 2 : 1	SHEET 1 OF 1

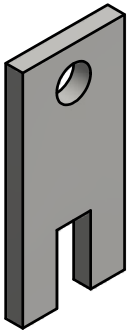
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	REMOVED DIMENSION 38.1 [1.50], 19.1 [0.75], DIMENSION (82.6 [3.25]) WAS 82.6 [3.25], DIMENSION 210 [8.25] WAS 209.6 [8.25], 127 [5.00] WAS 127.0 [5.00] ADDED NOTE #1	4/22/2019	DW



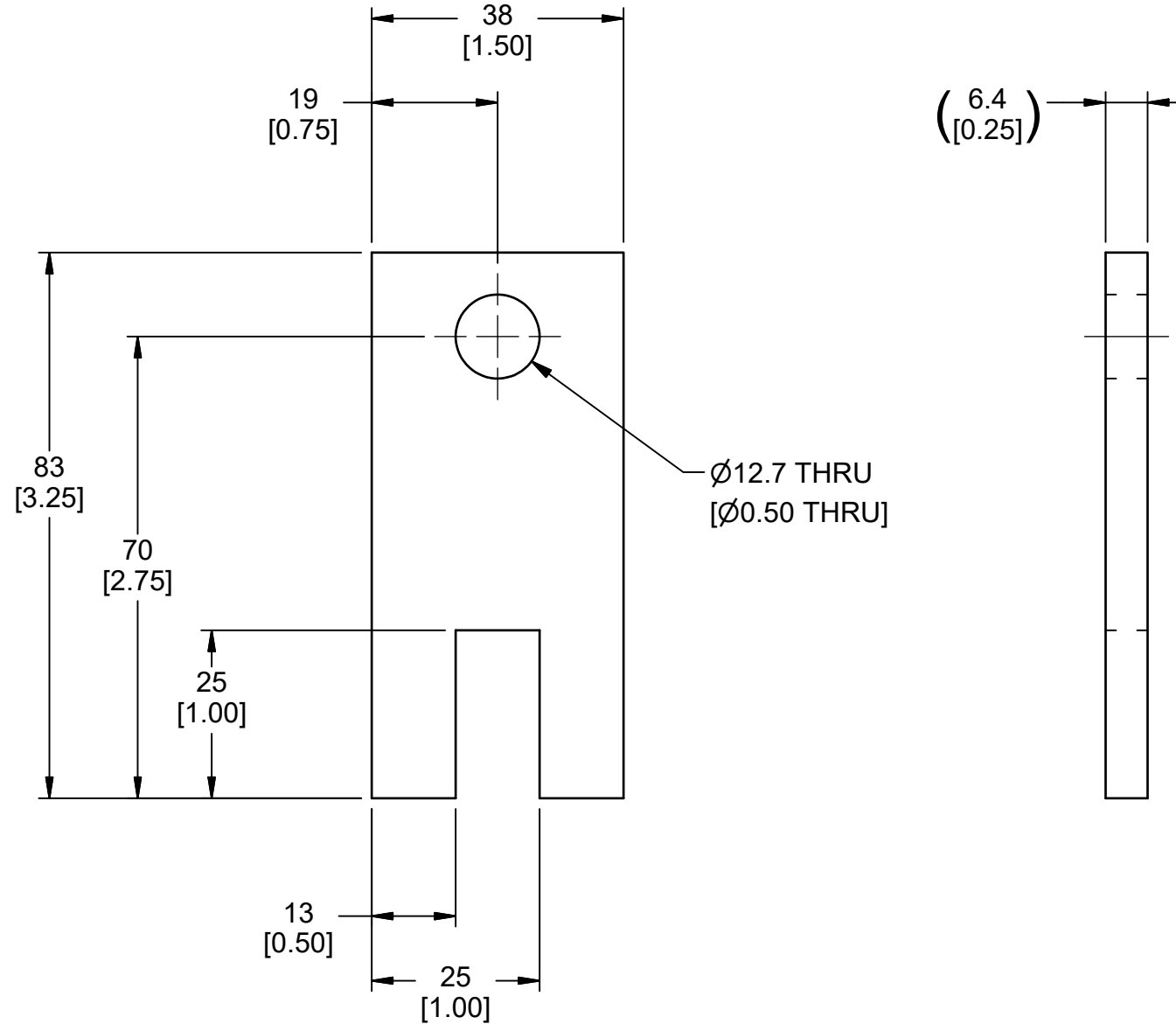
ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	3021-822	REAR LOCKING BELT ANCHOR THREADED ROD
1	1	3021-821	REAR LOCKING BELT ANCHOR PLATE

NOTES:
 1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$)
 UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1		MACHINED ANGLES $\pm 0.5^\circ$		VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
ASME Y14.5M - 1994 DO NOT SCALE DRAWING		APPROVALS DRAWN Dave Walker	DATE 6/12/2013	REAR LOCKING BELT ANCHOR ASS'Y. CHILD FRONTAL/SIDE IMPACT SLED			
MATERIAL Welded Steel Mild	HEAT TREAT ENG	FINISH APPROVED	CHECKED	SIZE A2	DRAWING NUMBER 3021-820	REV A	SCALE: 1 : 1
				THIRD ANGLE PROJECTION 	SHEET 1 OF 1		



REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING LOWER ANCHOR PLATE	6/12/2013	DW
	B	DIMENSION 38 [1.50] WAS 38.1 [1.50], 83 [3.25] WAS 82.6 [3.25], (6.4 [0.25]) WAS 6.4 [0.25], ADDED NOTE 1	4/22/2019	DW

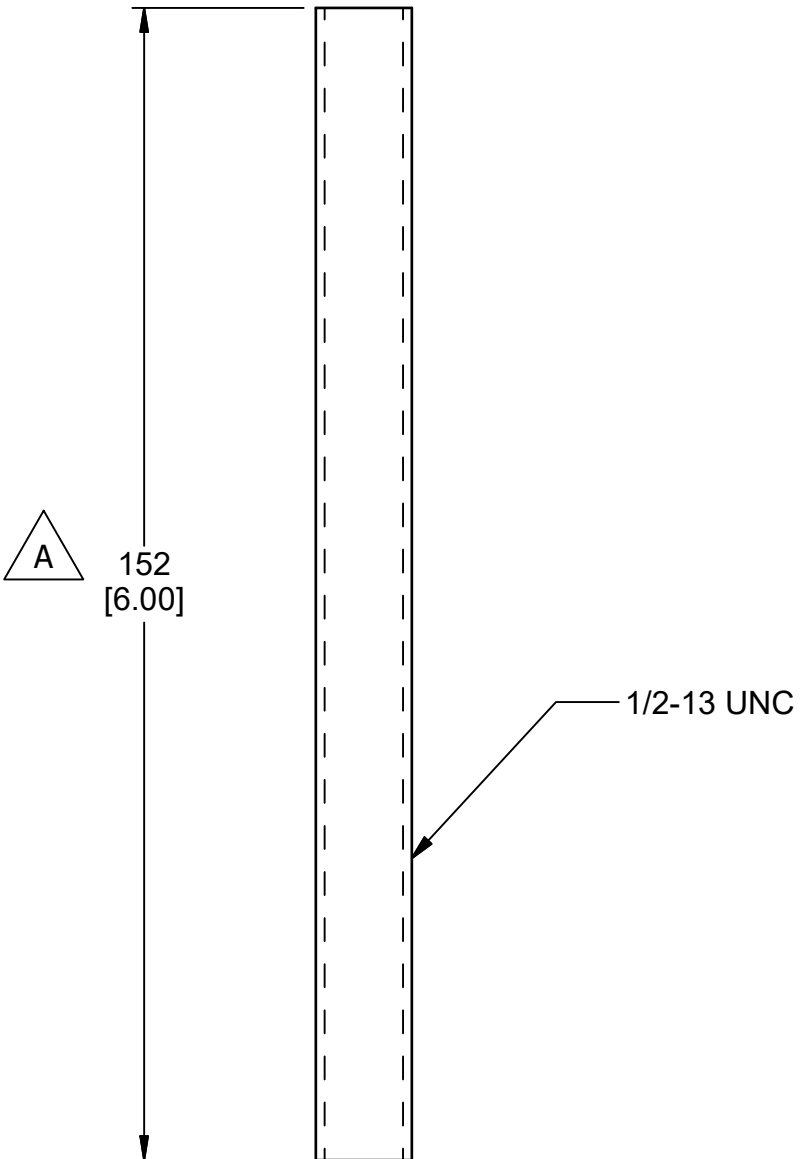


NOTES:
 1. DIMENSION TOLERANCES $\pm 3\text{mm}$ [$\pm 0.12''$] UNLESS OTHERWISE NOTED.

MATERIAL: BAR 38mm (1.5") x 6.4mm (0.25") X 83mm (3.25")

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ∇ ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS	DATE	
DRAWN Dave Walker	6/12/2013	THIRD ANGLE PROJECTION	
CHECKED			SIZE: A3 SCALE: 1:1
MATERIAL Steel, Mild	HEAT TREAT	APPROVED	DRAWING NUMBER: 3021-821 SHEET: 1 OF 1
FINISH			REV: B

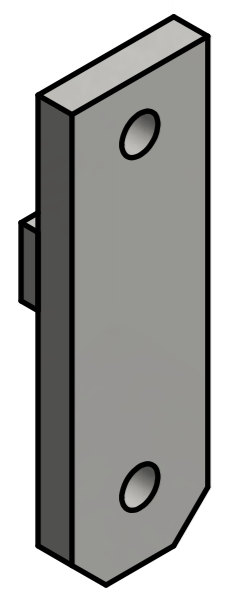
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 152 [6.00] WAS 152.4 [6.00], ADDED NOTE #1	4/22/2019	DW



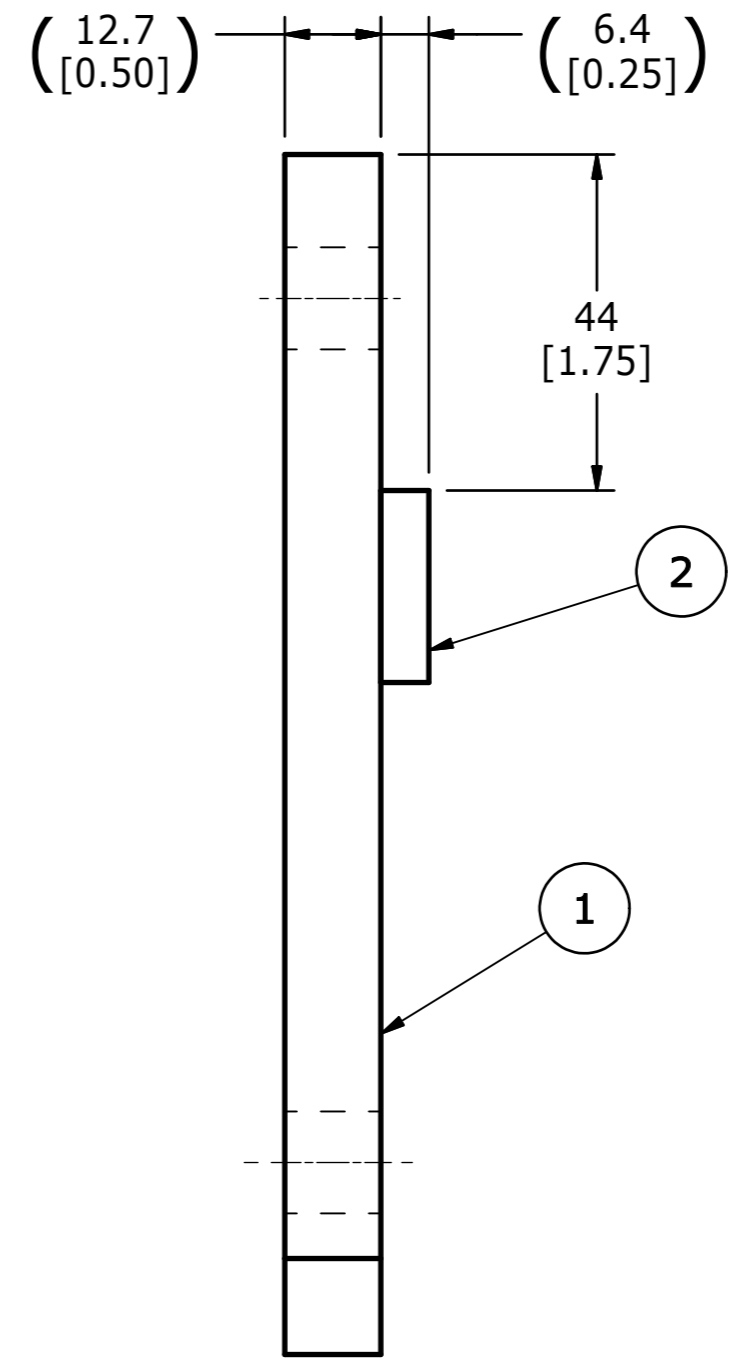
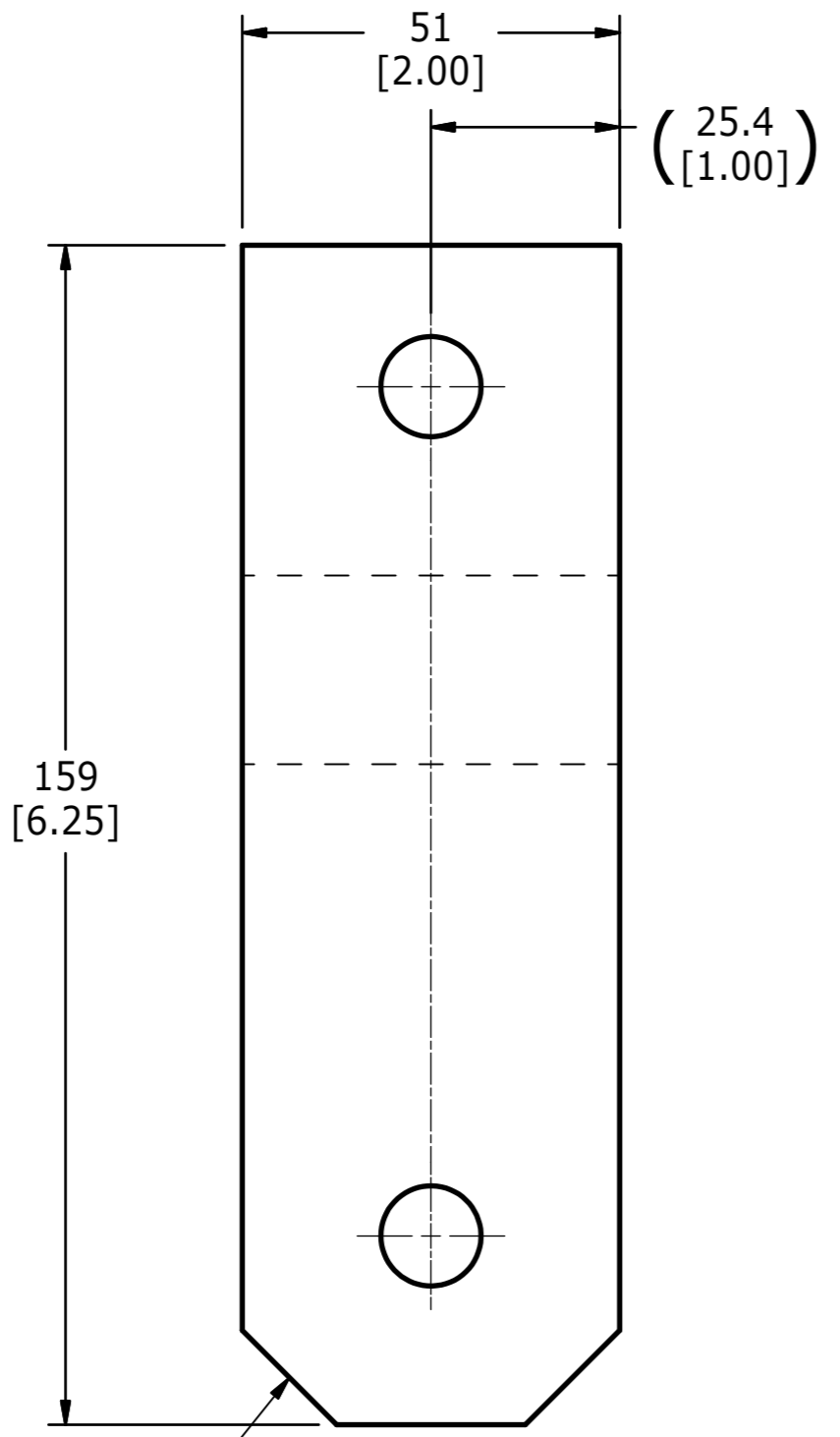
NOTES:
 1. DIMENSION TOLERANCES $\pm 3\text{mm}$ [$\pm 0.12''$] UNLESS OTHERWISE NOTED.

MATERIAL: ROD, THREADED 1/2-13 x 152 mm (6.00") LG.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 X.X ± 0.2 X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER			NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE		REAR LOCKING BELT ANCHOR THREADED ROD CHILD FRONTAL/SIDE IMPACT SLED	
	MATERIAL Steel	DRAWN Dave Walker	6/12/2013	SIZE A3	DRAWING NUMBER 3021-822
HEAT TREAT	CHECKED		SCALE: 1:1	SHEET 1 OF 1	
FINISH	ENG		THIRD ANGLE PROJECTION		
	APPROVED				



REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING ANCHOR MTG. BAR ASS'Y.	4/5/2018	DW
	B	DIMENSION 159 [6.25] WAS 158.8 [6.25], 51 [2.00] WAS 50.8 [2.00], (12.7 [0.50]) WAS 12.7 [0.50], (6.4 [0.21]) WAS 6.4 [0.25], 44 [1.75] 44.5 [1.75]; ADDED NOTE #1	4/22/2019	DW



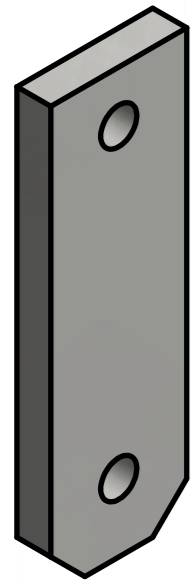
(12.7 X 45.0° CHAMFER)

ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	3021-335	REAR LOCKING BELT ANCHOR MTG. BAR STOP
1	1	3021-334	REAR LOCKING BELT ANCHOR MTG. BAR

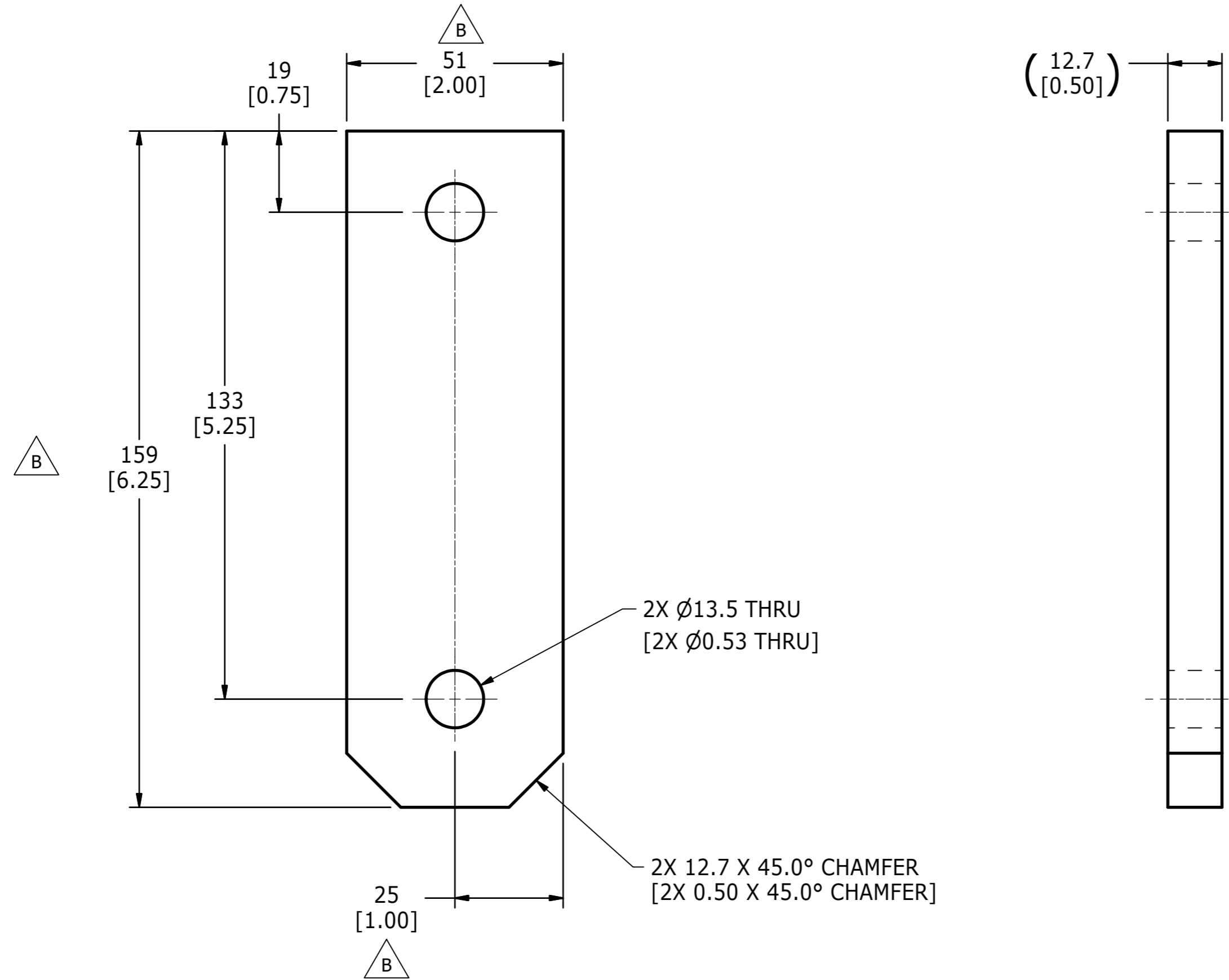
PARTS LIST

NOTES:
 1. ALL DIMENSION TOLERANCES ± 3mm (± 0.12") UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5, X.X ±.2, X.XX ±.1 MACHINED: ✓, ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS	DATE	
DRAWN Dave Walker	7/18/2016	SIZE A2 DRAWING NUMBER 3021-333 REV B	
CHECKED		SCALE: 1 : 1 SHEET 1 OF 1	
MATERIAL	ENG		THIRD ANGLE PROJECTION
HEAT TREAT	APPROVED		
FINISH			



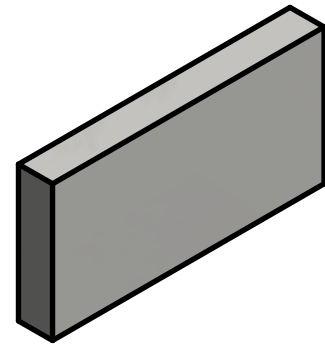
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	DESIGNER
	A	DRAWING TITLE WAS D-RING LOWER ANCHOR MTG. BAR	4/5/2018	DW
	B	DIMENSION 51 [2.00] WAS 50.8 [2.00], 159 [6.25] WAS 158.8 [6.25], AND (12.7 [0.50]) WAS 12.7 [0.50]; ADDED DIMENSION 25.4 [1.00]; ADDED NOTE 1	4/22/2019	DW



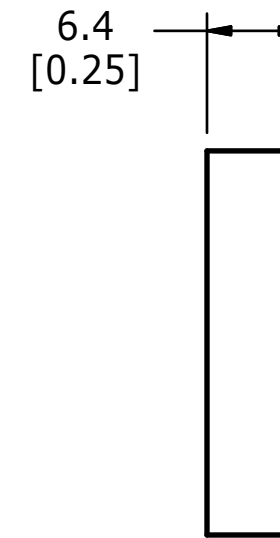
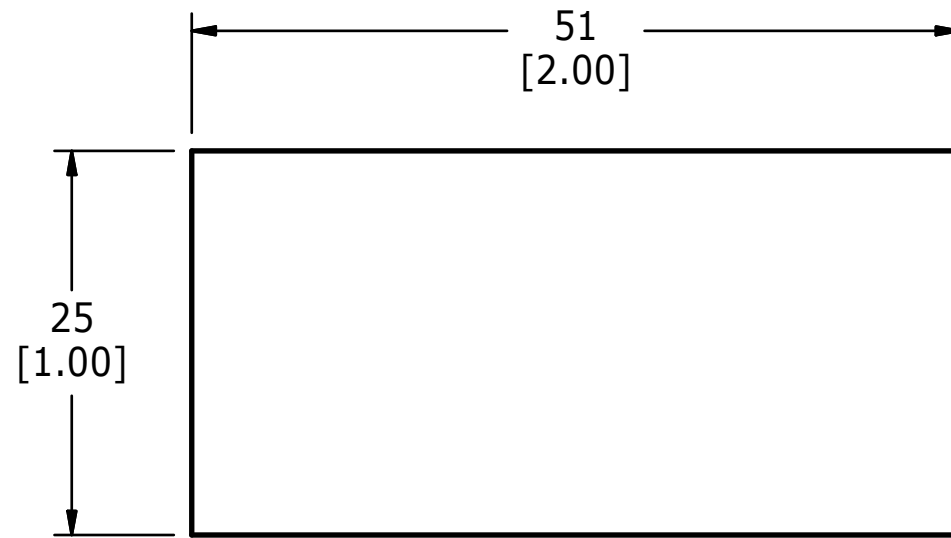
NOTES:
 1. DIMENSION TOLERANCES ±3mm [±0.12"] UNLESS OTHERWISE NOTED.

MATERIAL: BAR 51 [2.0"] x 12.7 [0.5"] x 159 [6.25"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 XX ±.2 XXX ±.1 MACHINED: X ±.5 XX ±.2 XXX ±.1 ANGLES: ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN: Dave Walker CHECKED:	DATE 7/18/2016	
MATERIAL: Steel, Mild HEAT TREAT: FINISH:	APPROVED:	SIZE: A2 SCALE: 1:1	DRAWING NUMBER: 3021-334 REV: B SHEET: 1 OF 1



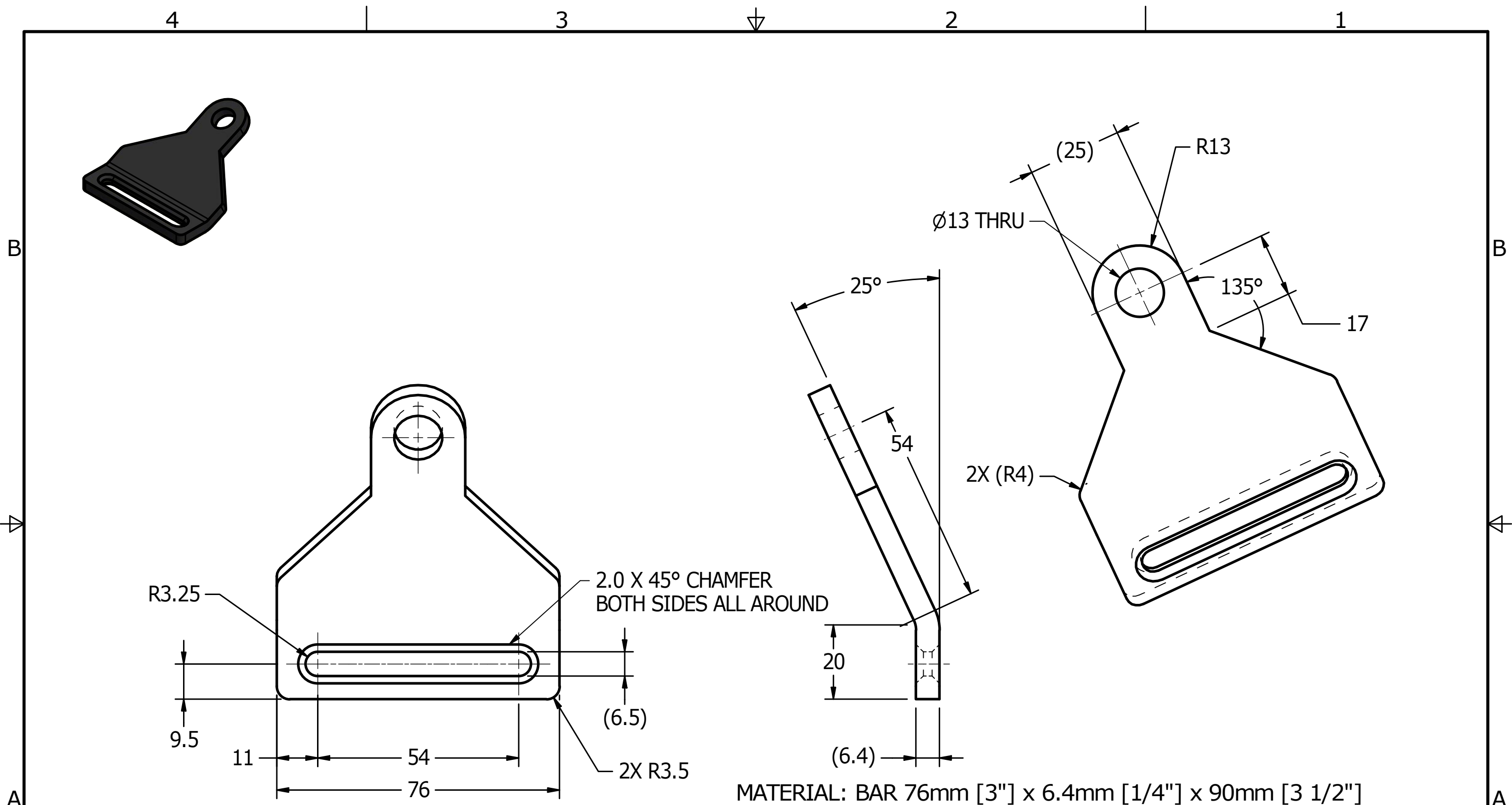
REVISION HISTORY				
ECO#	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS D-RING LOWER ANCHOR MTG. BAR STOP	4/5/2018	DW
	B	DIMENSION (25 [1.00]) WAS 25.4 [1.00], 51 [2.00] WAS 50.8 [2.00]; ADDED NOTE #1	4/22/2019	DW



1. ALL DIMENSION TOLERANCES $\pm 3\text{mm}$ ($\pm 0.12''$) UNLESS OTHERWISE NOTED.

MATERIAL: BAR 25 [1.0"] x 6.4 [0.25"] x 51 [2.0"]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ± 0.5 , X.X ± 0.2 , X.XX ± 0.1 MACHINED ANGLES $\pm 0.5^\circ$ <small>ASME Y14.5M - 1994</small> DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS DRAWN Dave Walker CHECKED ENG APPROVED	DATE 7/18/2016	
MATERIAL Steel, Mild HEAT TREAT FINISH	THIRD ANGLE PROJECTION	SIZE A3 SCALE: 2 : 1	DRAWING NUMBER 3021-335 REV B SHEET 1 OF 1

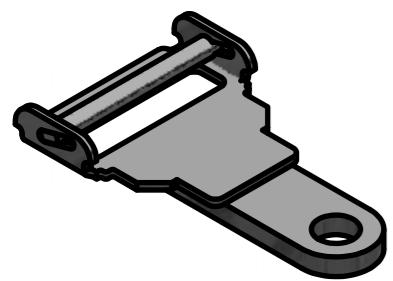


MATERIAL: BAR 76mm [3"] x 6.4mm [1/4"] x 90mm [3 1/2"]

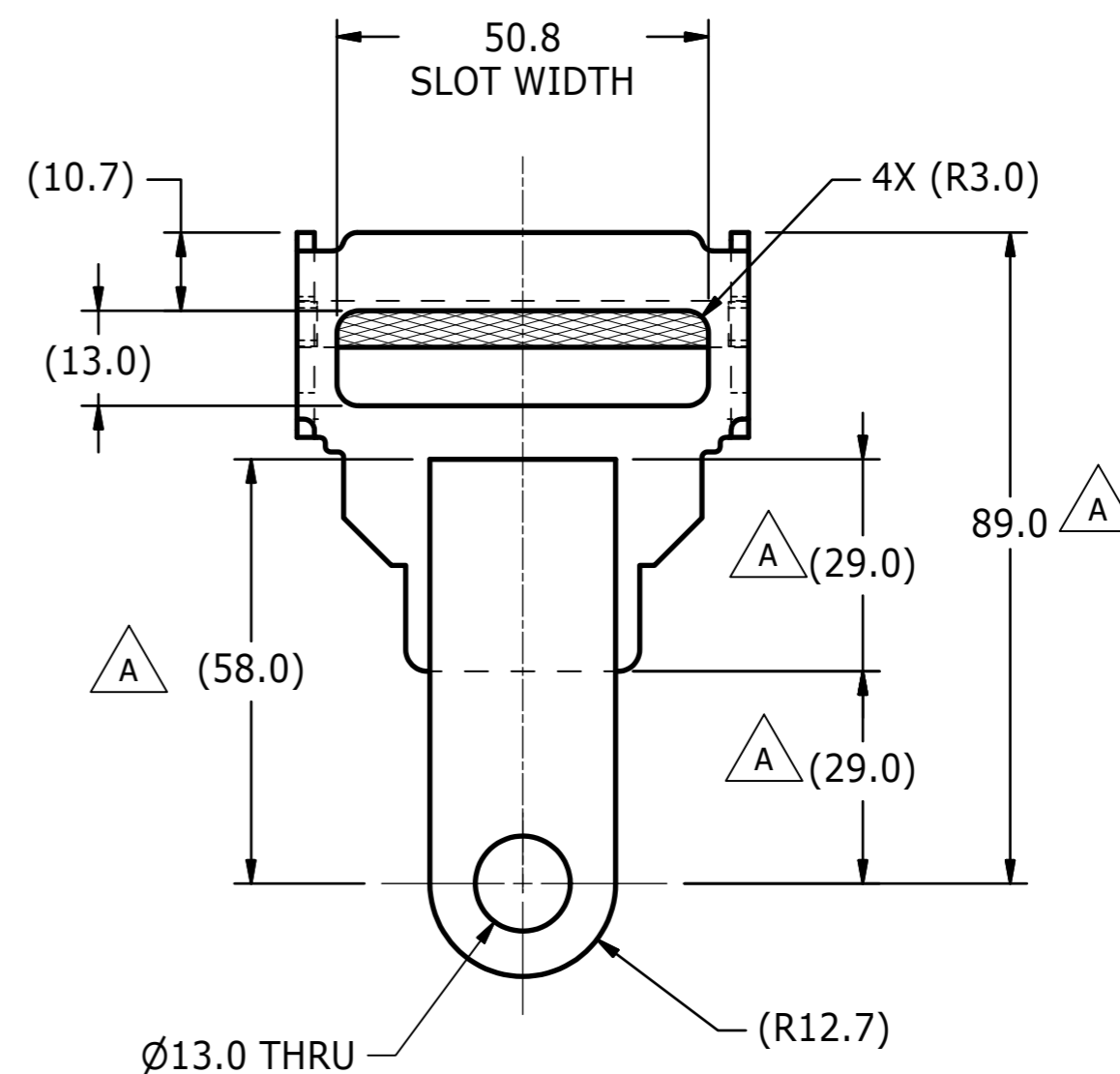
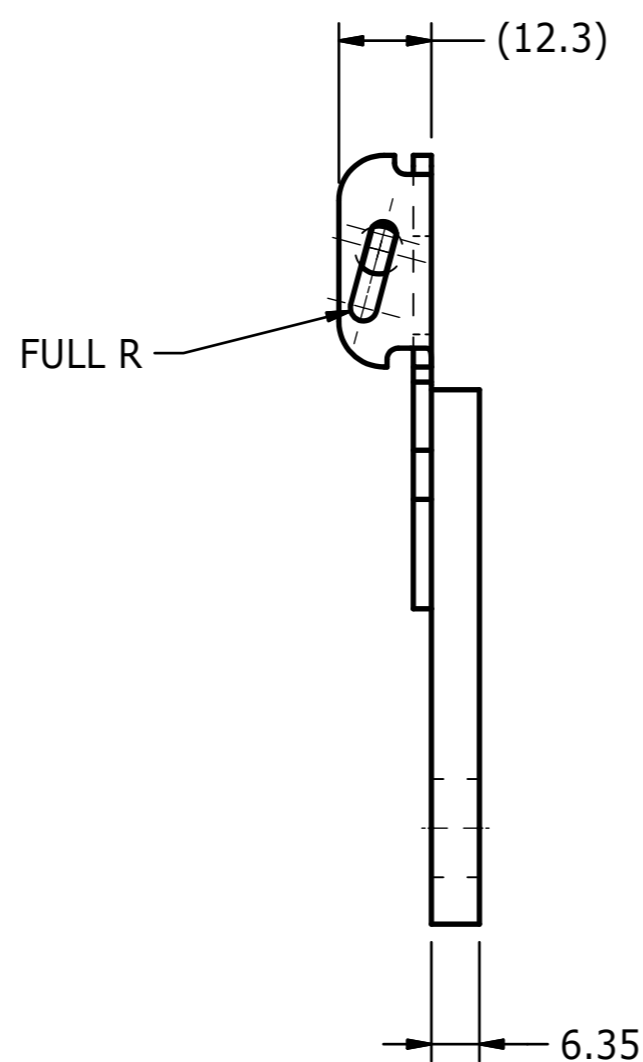
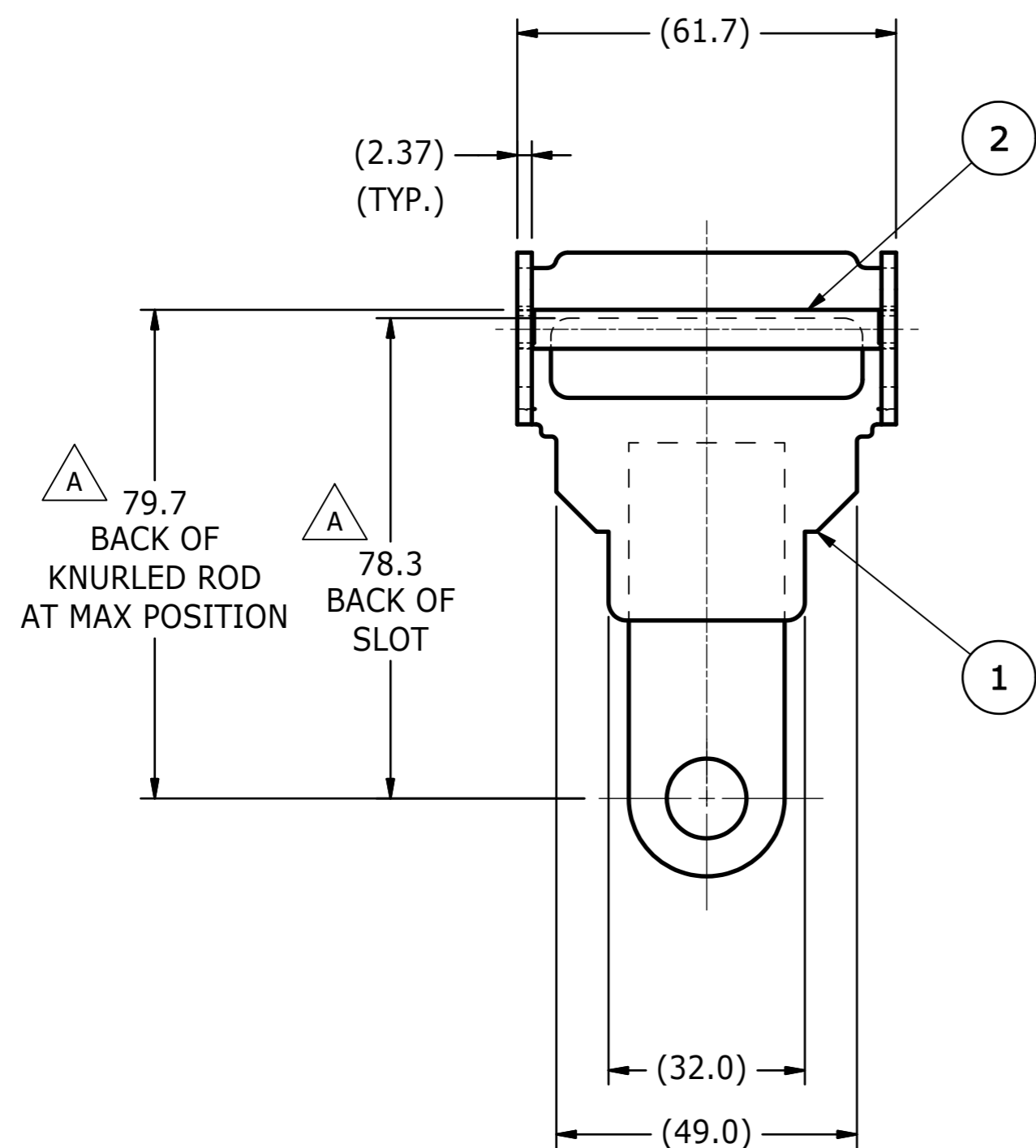
NOTES:
 1. DIMENSION TOLERANCES 0.5mm [0.02"] UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X ±.5 X.X ±.2 X.XX ±.1 MACHINED 1/6 ANGLES ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS	DATE	INBOARD LAP BELT ANCHOR CHILD FRONTAL/SIDE IMPACT SLED	
DRAWN Dave Walker	8/2/2016	SIZE		
CHECKED		A3	3021-120	
MATERIAL Steel, Mild	ENG	SCALE: 1:1	SHEET 1 OF 1	
HEAT TREAT	APPROVED	THIRD ANGLE PROJECTION		

Figure C1-Generic Routing Hardware.ipt



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 79.7 BACK OF KNURLED ROD AT MAX POSITION WAS 78.0 BACK OF KNURLED ROD AT MAX POSITION, 78.3 BACK OF SLOT WAS 76.6 BACK OF SLOT, (58) WAS (42.3), (29) WAS (15.00) & (27.3); ADDED NOTES 1 & 2	7/31/2018	DW



ITEM	QTY	PART NUMBER	DESCRIPTION
2	1		OUTBOARD LAP BELT ANCHOR KNURLED ROD
1	1		OUTBOARD LAP BELT ANCHOR PLATE

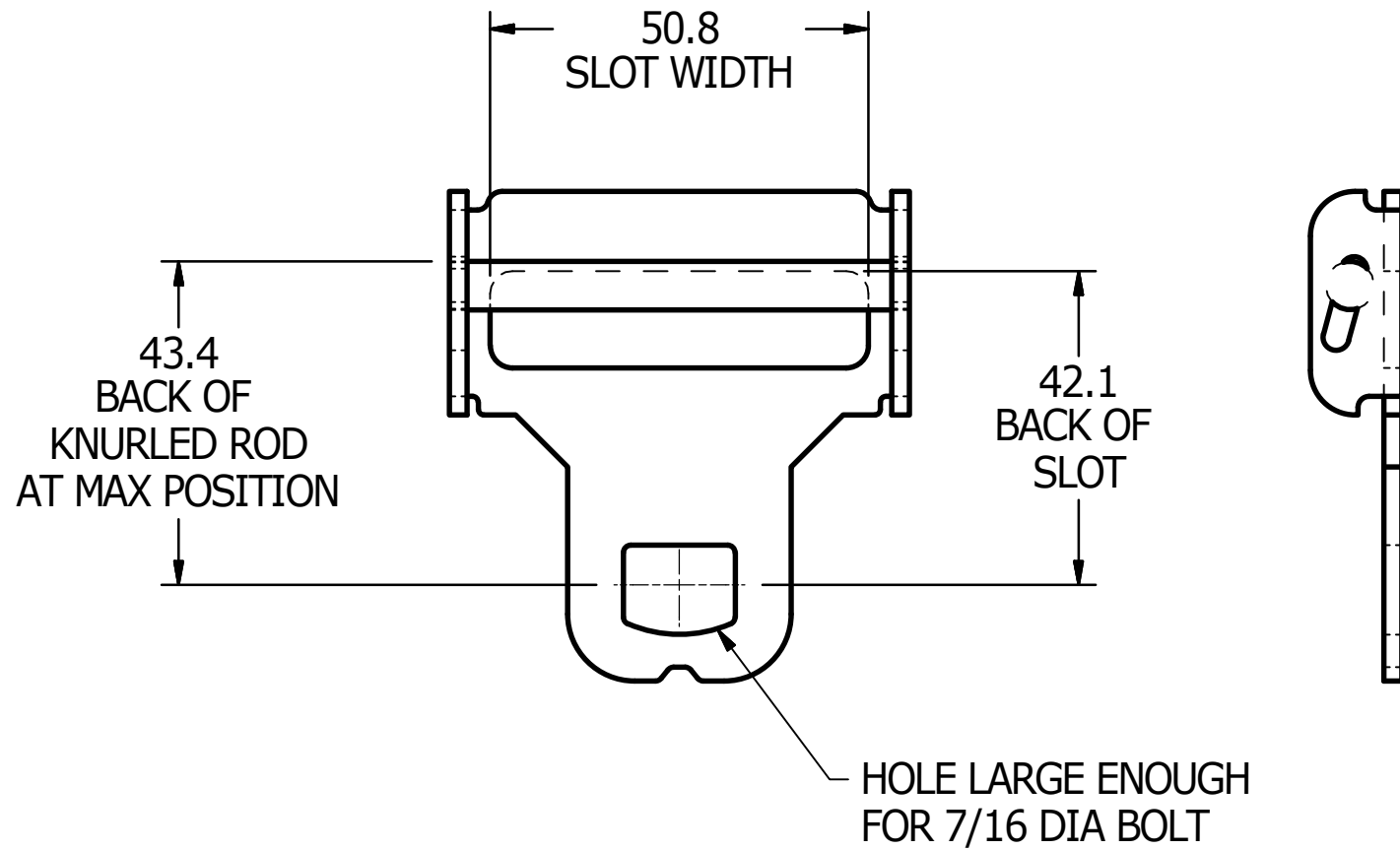
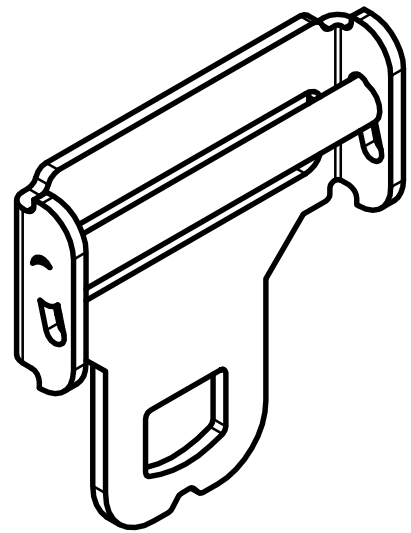
PARTS LIST

NOTES:


- 1. MODIFIED HARDWARE TAKEN FROM SEAT BELTS PLUS PART NUMBER WSCH201P, 3 POINT RETRACTABLE SEAT BELT WITH PUSH BUTTON w/CONTOURED SLEEVE, OR EQUIVALENT.
- 2. DIMENSION TOLERANCES $\pm 2\text{mm}$ [$\pm 0.08\text{''}$] UNLESS OTHERWISE NOTED.


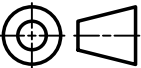
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: X $\pm .5$, X.X $\pm .2$, X.XX $\pm .1$ MACHINED: ✓ ANGLER $\pm .5^\circ$ ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
	APPROVALS	DATE	
MATERIAL	DRAWN Dave Walker	8/2/2016	OUTBOARD LAP BELT ANCHOR CHILD FRONTAL/SIDE IMPACT SLED
HEAT TREAT	CHECKED		
FINISH	ENG		 THIRD ANGLE PROJECTION
	APPROVED		
		SIZE A2	DRAWING NUMBER 3021-121
		SCALE: 1 : 1	REV A
		SHEET 1 OF 1	

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DRAWING TITLE WAS REAR LOWER BELT ANCHOR, ADDED NOTE 1	3/27/2018	JC

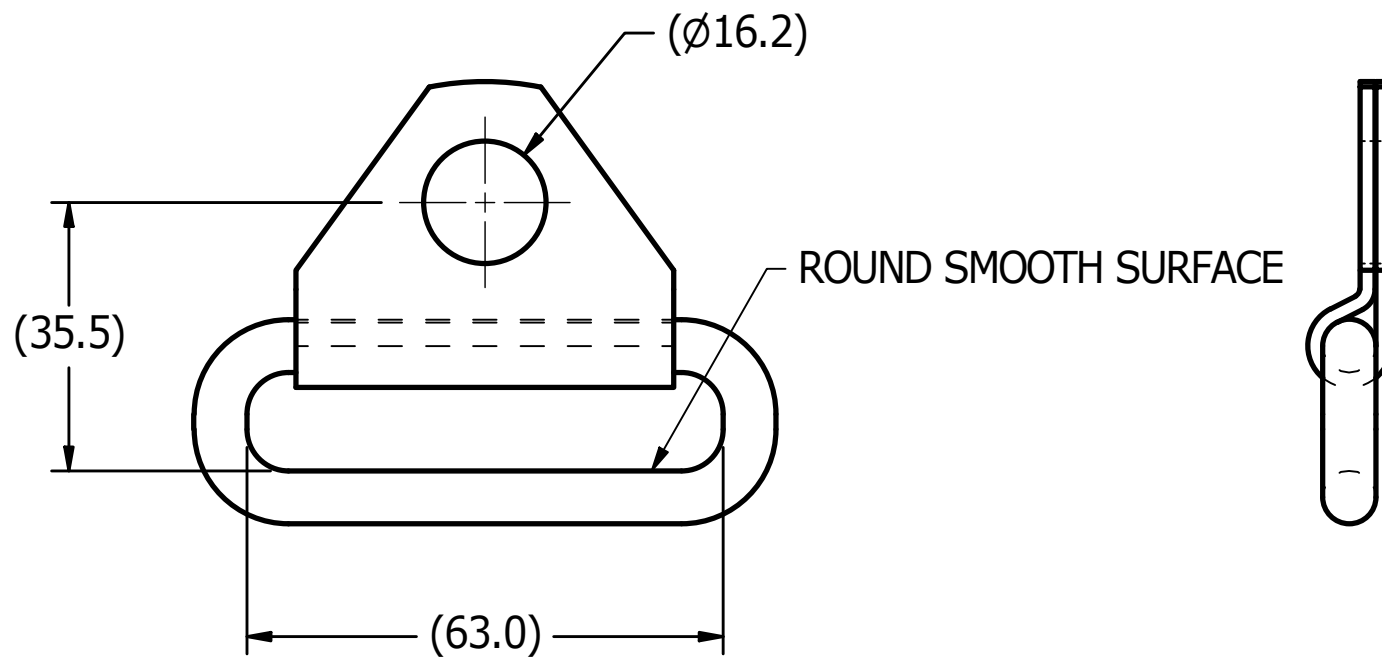
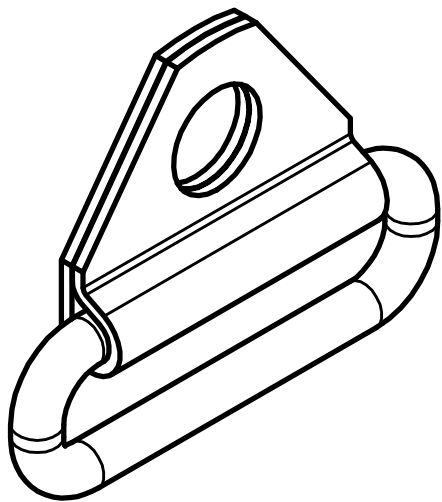


NOTES:

1.  HARDWARE TAKEN FROM SEAT BELTS PLUS PART NUMBER WSCH201P, 3 POINT RETRACTABLE SEAT BELT WITH PUSH BUTTON w/CONTOURED SLEEVE, OR EQUIVALENT.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: MACHINED X ±.5 1/6 X.X ±.2 ANGLE X.XX ±.1 ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN JIM CLEVINGER CHECKED	DATE 11/22/2016	REAR LOCKING BELT ANCHOR CHILD FRONTAL IMPACT SLED	
MATERIAL Steel, Mild HEAT TREAT ENG FINISH APPROVED	 THIRD ANGLE PROJECTION	SIZE A3	DRAWING NUMBER 3021-122	REV A
		SCALE: 1 : 1	SHEET 1 OF 1	

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	ADDED NOTE 1; DRAWING TITLE WAS UPPER ANCHOR	3/27/2018	JC
	B	CHANGED ALL DIMENSIONS TO REFERENCE DIMENSIONS	4/22/2019	JC

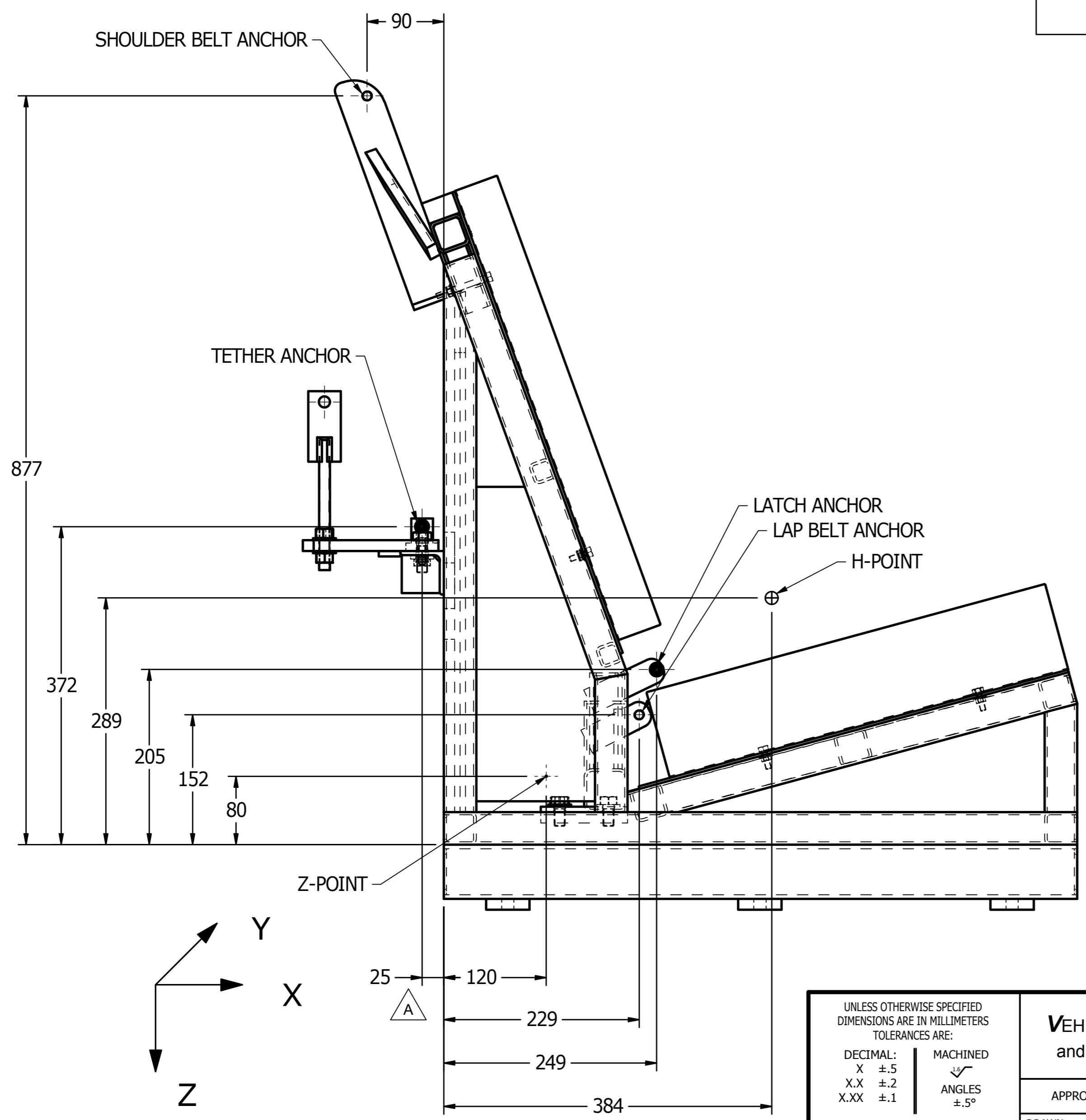


NOTES:

- HARDWARE TAKEN FROM SEAT BELTS PLUS PART NUMBER WSCH201P, 3 POINT RETRACTABLE SEAT BELT WITH PUSH BUTTON w/CONTOURED SLEEVE, OR EQUIVALENT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMAL: MACHINED X ±.5 1/6 X.X ±.2 ANGLE X.XX ±.1 ±.5° ASME Y14.5M - 1994 DO NOT SCALE DRAWING	VEHICLE RESEARCH and TEST CENTER		 NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
	APPROVALS DRAWN Jim.Clevenger CHECKED	DATE 11/22/2016	D-RING CHILD FRONTAL/SIDE IMPACT SLED	
MATERIAL Steel, Mild HEAT TREAT FINISH	ENG APPROVED	 THIRD ANGLE PROJECTION	SIZE A3 SCALE: 1 : 1	DRAWING NUMBER 3021-123 SHEET 1 OF 1
				REV B

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	BY
	A	DIMENSION 25 WAS 30; ADDED NOTE 1	4/5/2018	DW



Y - LOCATION FROM CENTER LINE	
POINT	Y-DIMENSION
H-POINT	N/A
SHOULDER BELT ANCHOR	244
TETHER ANCHOR	0
LATCH ANCHOR	140
LAP BELT ANCHOR	225
Z-POINT	350

NOTES:
 △ 1. DIMENSIONAL TOLERANCES ± 6mm, UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:	
DECIMAL:	MACHINED
X ±.5	✓
X.X ±.2	✓
X.XX ±.1	✓
	ANGLES ±.5°
ASME Y14.5M - 1994 DO NOT SCALE DRAWING	
MATERIAL	
HEAT TREAT	
FINISH	

VEHICLE RESEARCH and TEST CENTER	
APPROVALS	DATE
DRAWN Dave Walker	7/7/2016
CHECKED	
ENG	
APPROVED	

		NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	
BENCH SEAT SCHEMATIC CHILD FRONTAL IMPACT SLED			
SIZE	DRAWING NUMBER	REV	
A2	3021-1000	A	
SCALE: 1 / 4	SHEET 1 OF 1		