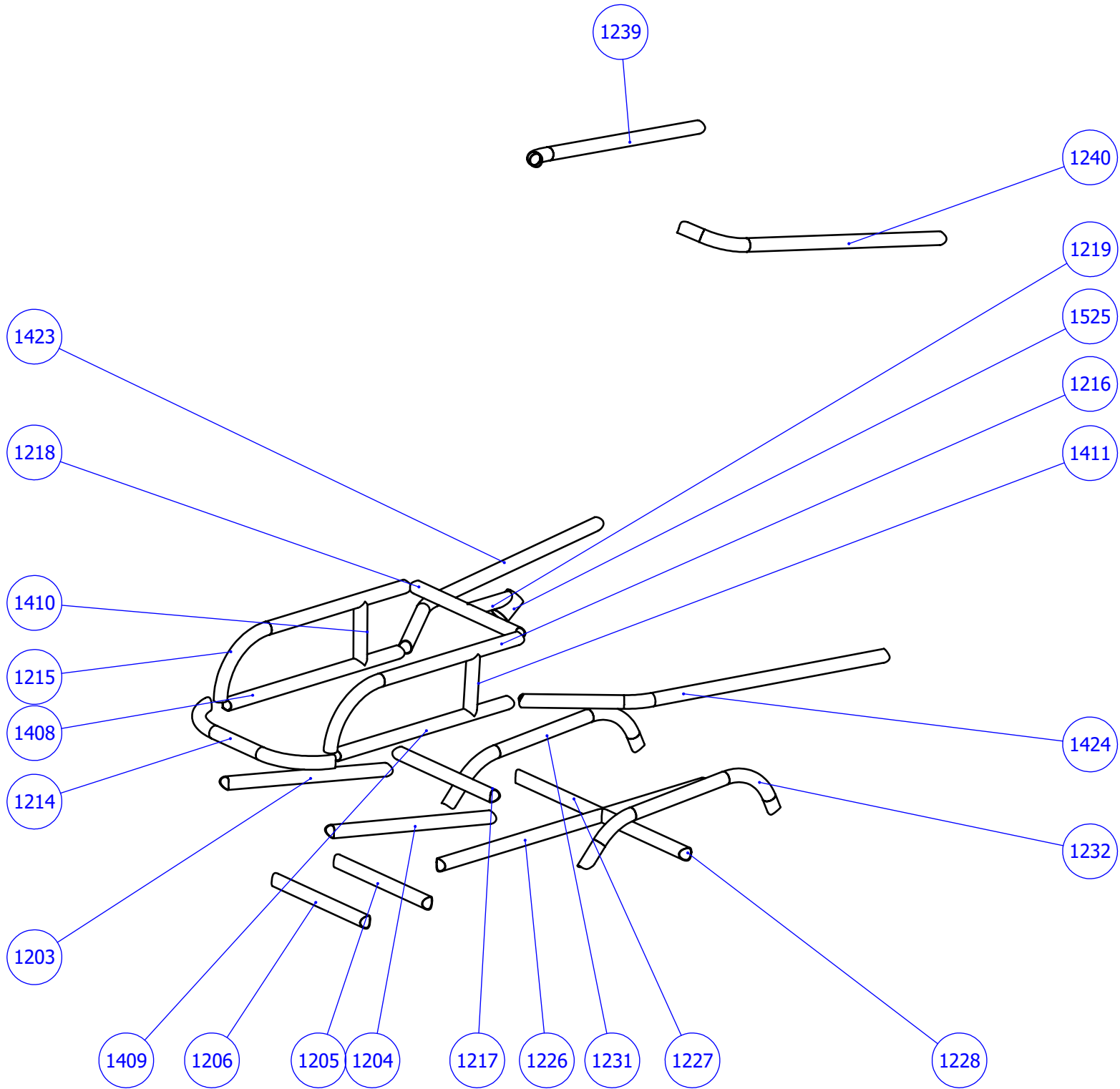


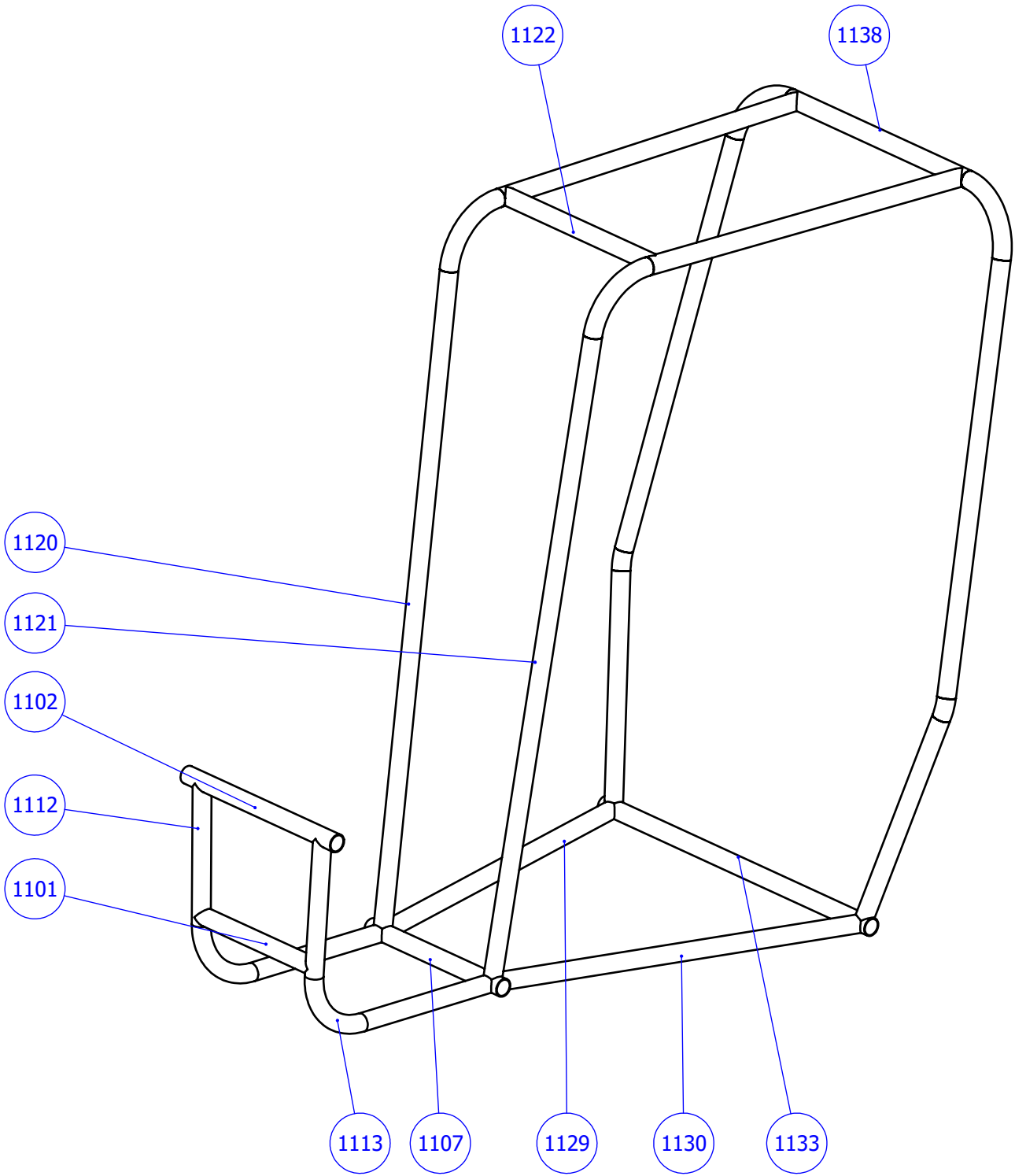
PART NUMBER	DESCRIPTION	QTY.
1203	FRONT SUSPENSION MOUNT RIGHT	1
1204	FRONT SUSPENSION MOUNT LEFT	1
1205	LATERAL FRONT DIFF MOUNT	1
1206	LATERAL PEDAL MOUNT	1
1214	FRONT TOW HOOK	1
1215	FRONT HOOD RIGHT	1
1216	FRONT HOOD LEFT	1
1217	LATERAL EGRESS SUPPORT	1
1218	LATERAL STEERING MOUNT	1
1219	LONGITUDINAL STEERING MOUNT	1
1226	LONGITUDINAL UNDER SEAT	1
1227	LATERAL UNDER SEAT RIGHT	1
1228	LATERAL UNDER SEAT LEFT	1
1231	SEAT MOUNT RIGHT	1
1232	SEAT MOUNT LEFT	1
1239	LATERAL CLEARANCE RIGHT	1
1240	LATERAL CLEARANCE LEFT	1
1408	TOE BOX SIM RIGHT	1
1409	TOE BOX SIM LEFT	1
1410	FRONT SUS SUPPORT RIGHT	1
1411	FRONT SUS SUPPORT LEFT	1
1423	SIM RIGHT	1
1424	SIM LEFT	1
1525	STEERING BEARING SUPPORT	1



SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME C_SkeletonFrame_F.12			
DRAWN BY AIDAN B	DRAWN DATE 12/13/2025	DESCRIPTION SECONDARY TUBES - FORE OF ROLLHOOP	
APPROVAL		PN 1001	REV A
			SHEET 2 of 4
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			

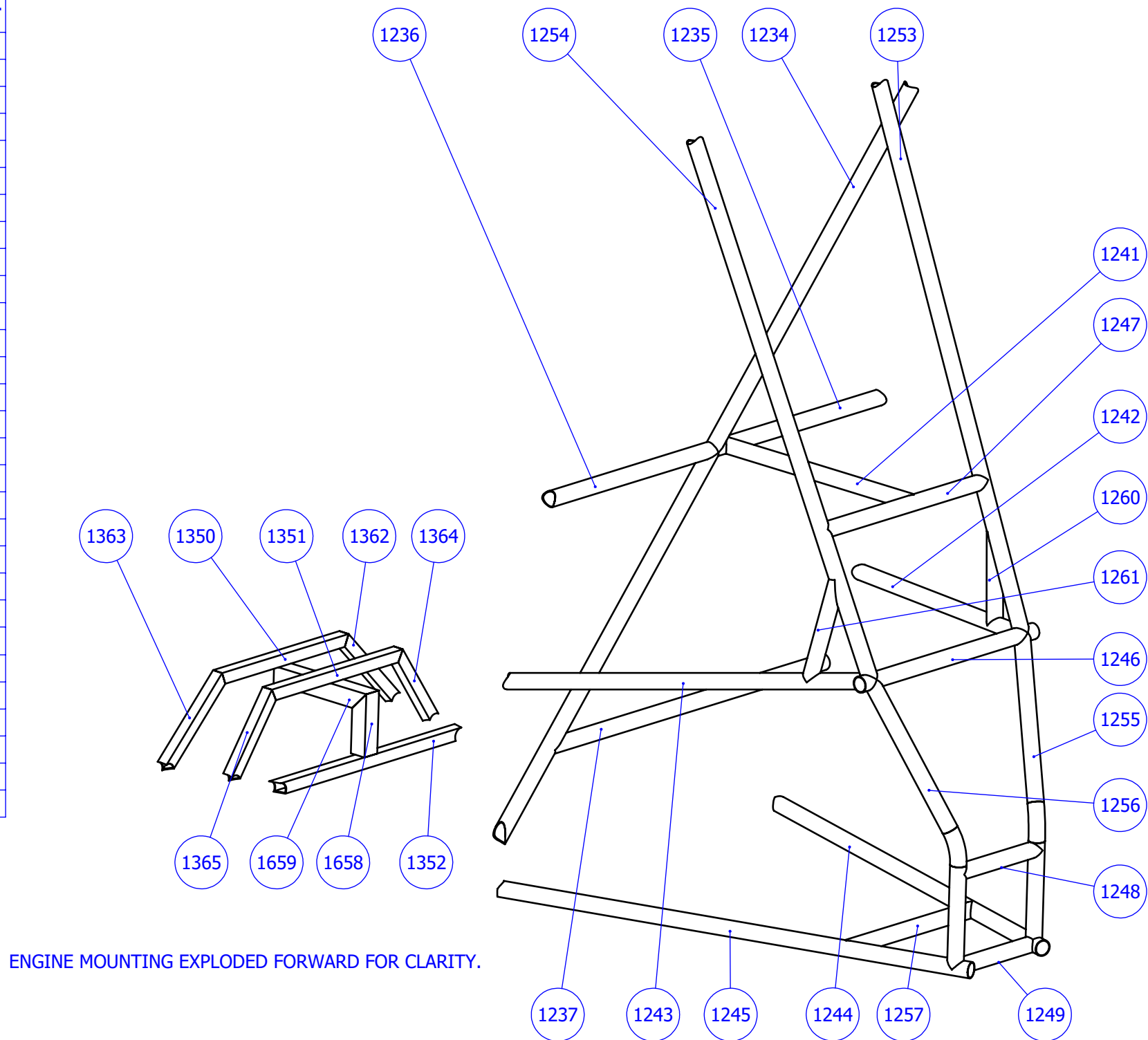
PART NUMBER	DESCRIPTION	QTY.
1101	ELC	1
1102	GLC	1
1107	FLC	1
1112	NOSE RIGHT	1
1113	NOSE LEFT	1
1120	FBM-RHO RIGHT	1
1121	FBM-RHO LEFT	1
1122	CLC	1
1129	FLOOR SIDE RIGHT	1
1130	FLOOR SIDE LEFT	1
1133	ALC	1
1138	REAR ROLL HOOP	1

_LC DENOTES RULE-NAMED LATERAL CROSSMEMBER

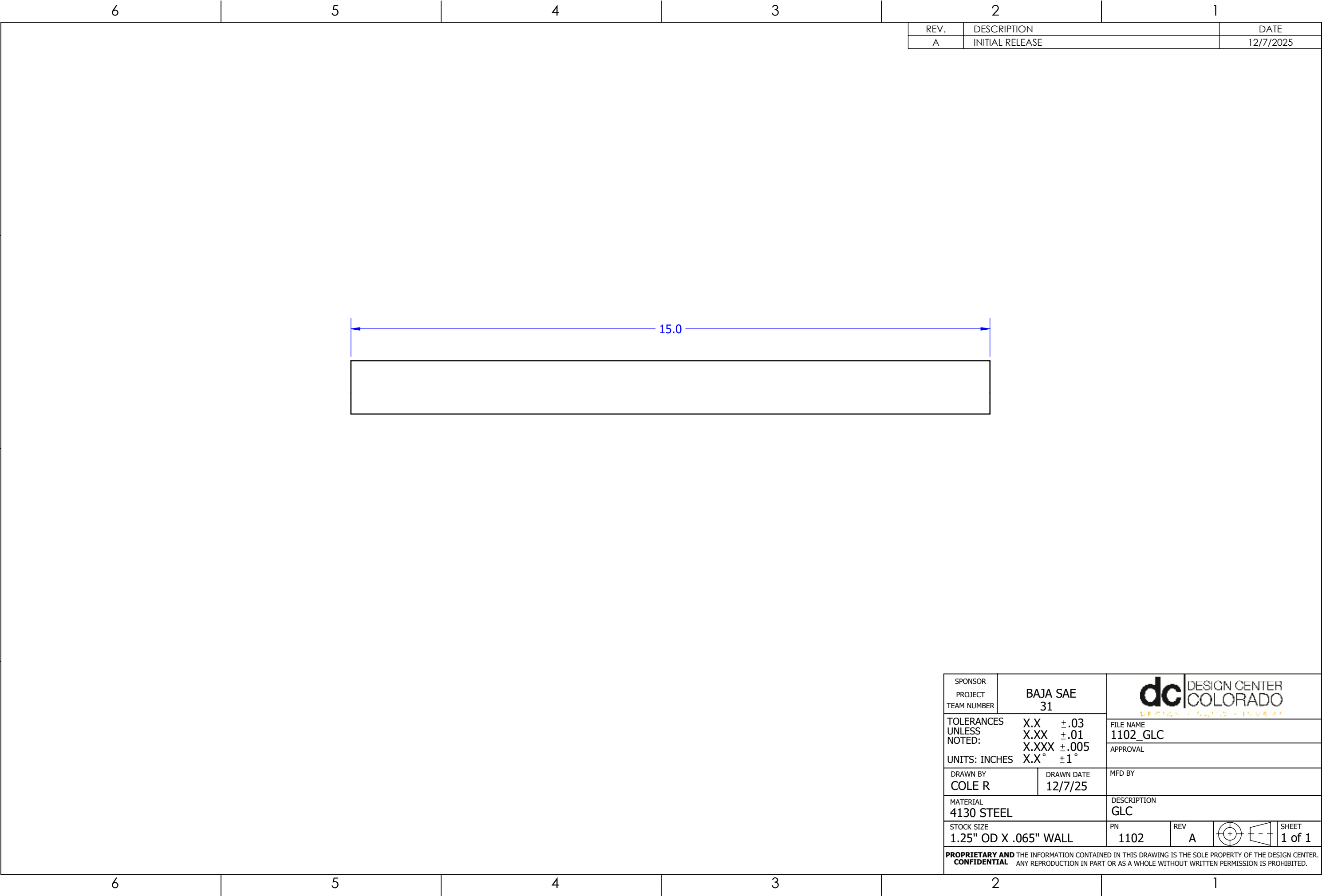


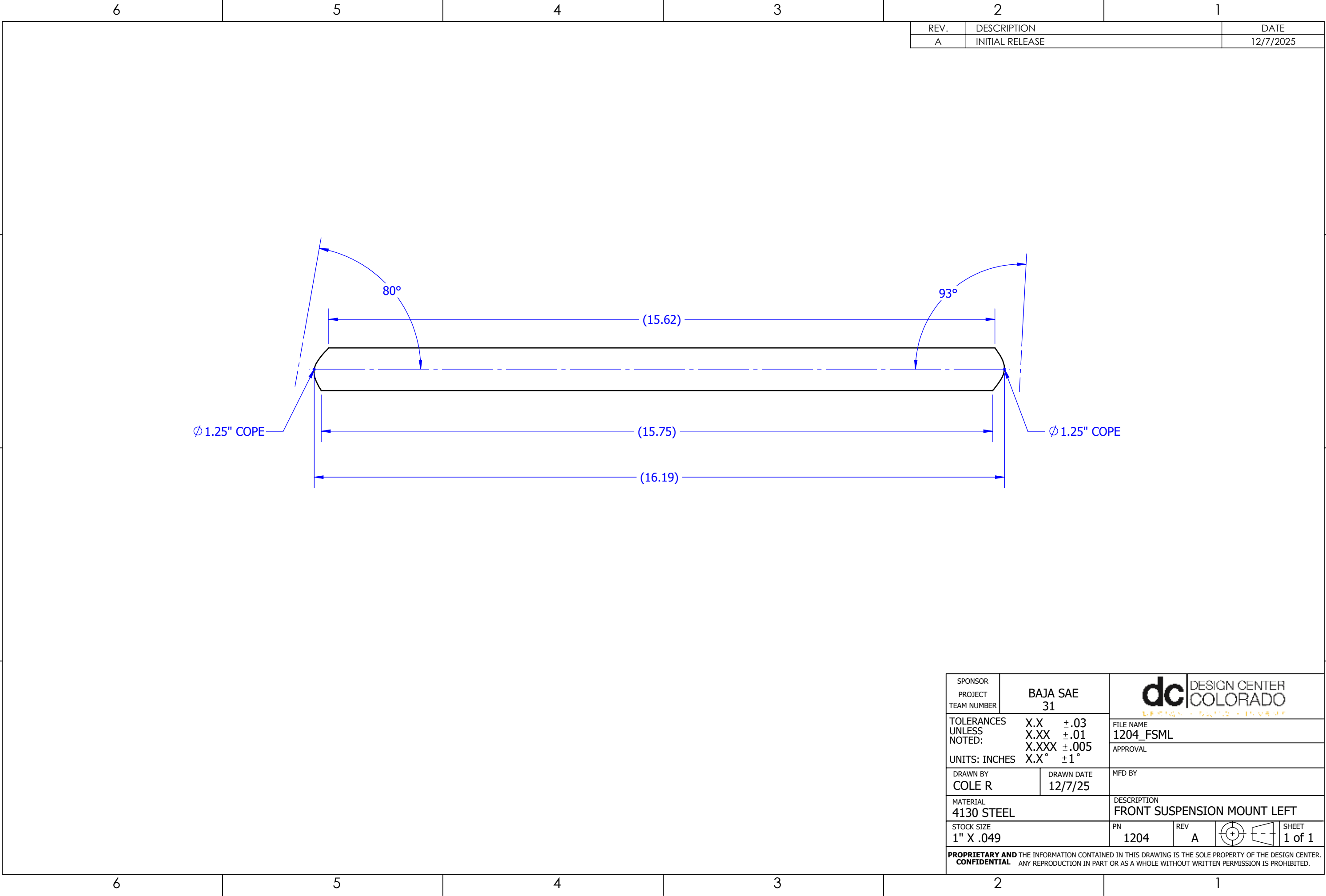
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO	
FILE NAME C_SkeletonFrame_F.12		DESIGN • BUILD • INVENT	
DRAWN BY AIDAN B	DRAWN DATE 12/13/2025	DESCRIPTION PRIMARY TUBES	
APPROVAL	PN 1002	REV A	SHEET 3 of 4
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PART NUMBER	DESCRIPTION	QTY.
1234	LATERAL DIAGONAL BRACE	1
1235	SEAT BELT MOUNT RIGHT	1
1236	SEAT BELT MOUNT LEFT	1
1237	SEAT BELT MOUNT LOWER	1
1241	LONGITUDINAL TANK MOUNT	1
1242	REAR SIM RIGHT	1
1243	REAR SIM LEFT	1
1244	REAR FLOOR RIGHT	1
1245	REAR FLOOR LEFT	1
1246	RLC	1
1247	LATERAL TANK MOUNT	1
1248	REAR SUS UPPER SUPPORT	1
1249	REAR SUS LOWER SUPPORT	1
1253	REAR TRIANGLE UPPER RIGHT	1
1254	REAR TRIANGLE UPPER LEFT	1
1255	REAR TRIANGLE LOWER RIGHT	1
1256	REAR TRIANGLE LOWER LEFT	1
1257	LATERAL REAR DIFF MOUNT	1
1260	REAR SHOCK MOUNT RIGHT	1
1261	REAR SHOCK MOUNT LEFT	1
1350	FRONT ENGINE MOUNT TOP	1
1351	REAR ENGINE MOUNT TOP	1
1352	REAR BRACKET MOUNT (FRANKENBOX SUPPORT)	1
1362	FRONT ENGINE MOUNT RIGHT	1
1363	FRONT ENGINE MOUNT LEFT	1
1364	REAR ENGINE MOUNT RIGHT	1
1365	REAR ENGINE MOUNT LEFT	1
1658	VERTICAL ENGINE SUPPORT BRACKET	1
1659	LONGITUDINAL ENGINE SUPPORT BRACKET	1



SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31				
FILE NAME C_SkeletonFrame_F.12					
DRAWN BY AIDAN B	DRAWN DATE 12/13/2025	DESCRIPTION SECONDARY TUBES - AFT OF ROLLHOOP			
APPROVAL		PN 1003	REV A		SHEET 4 of 4
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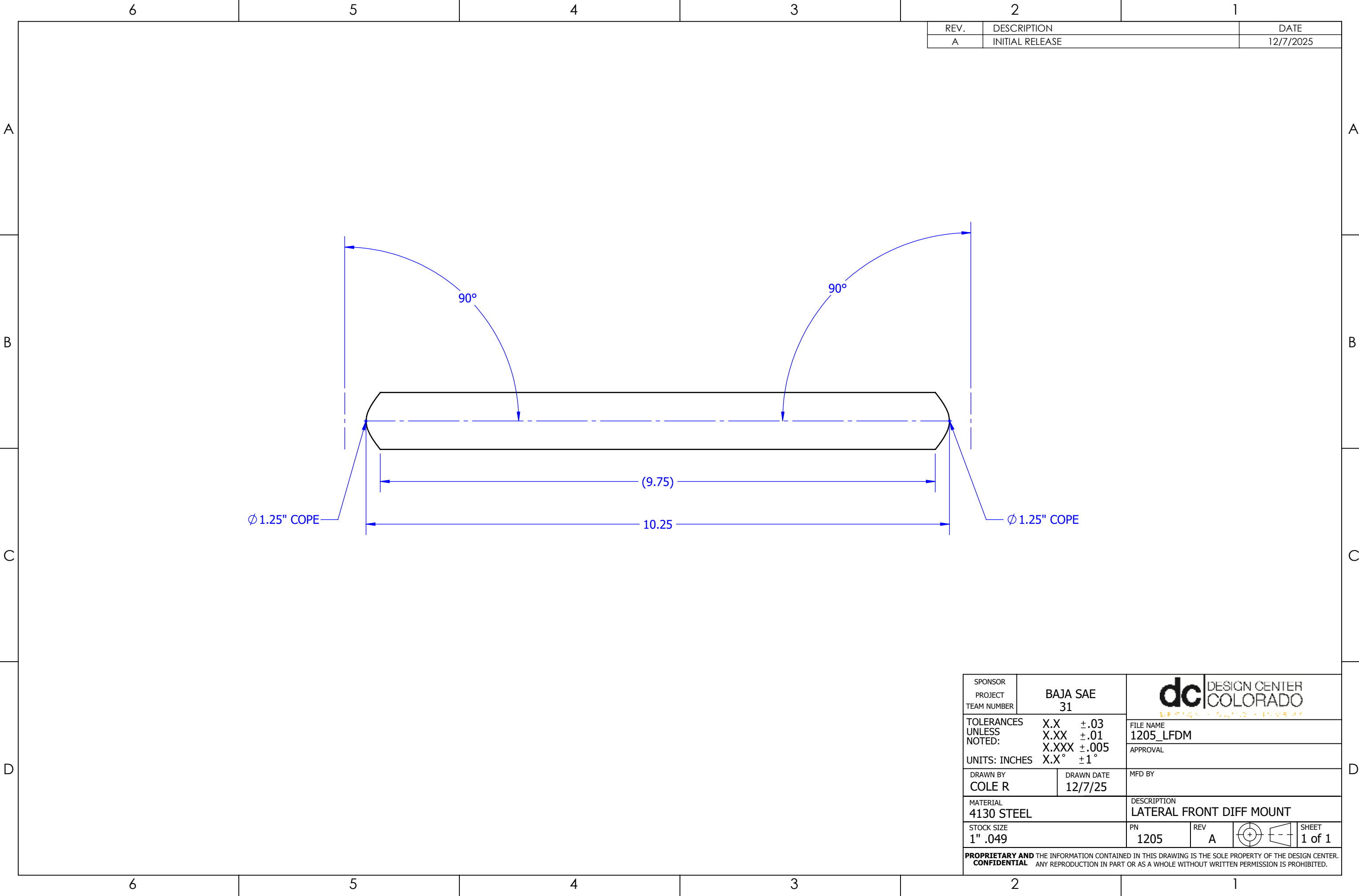


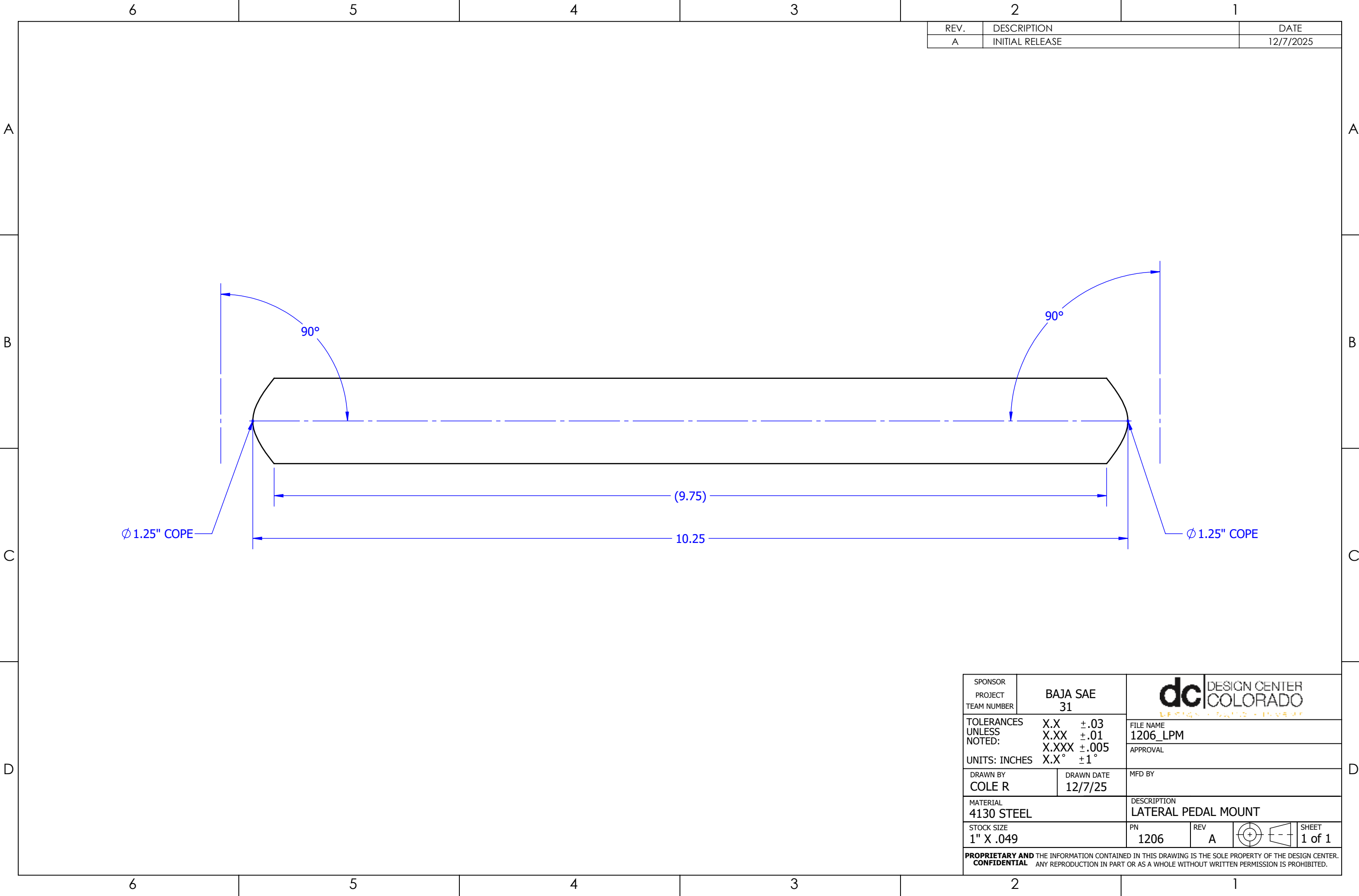


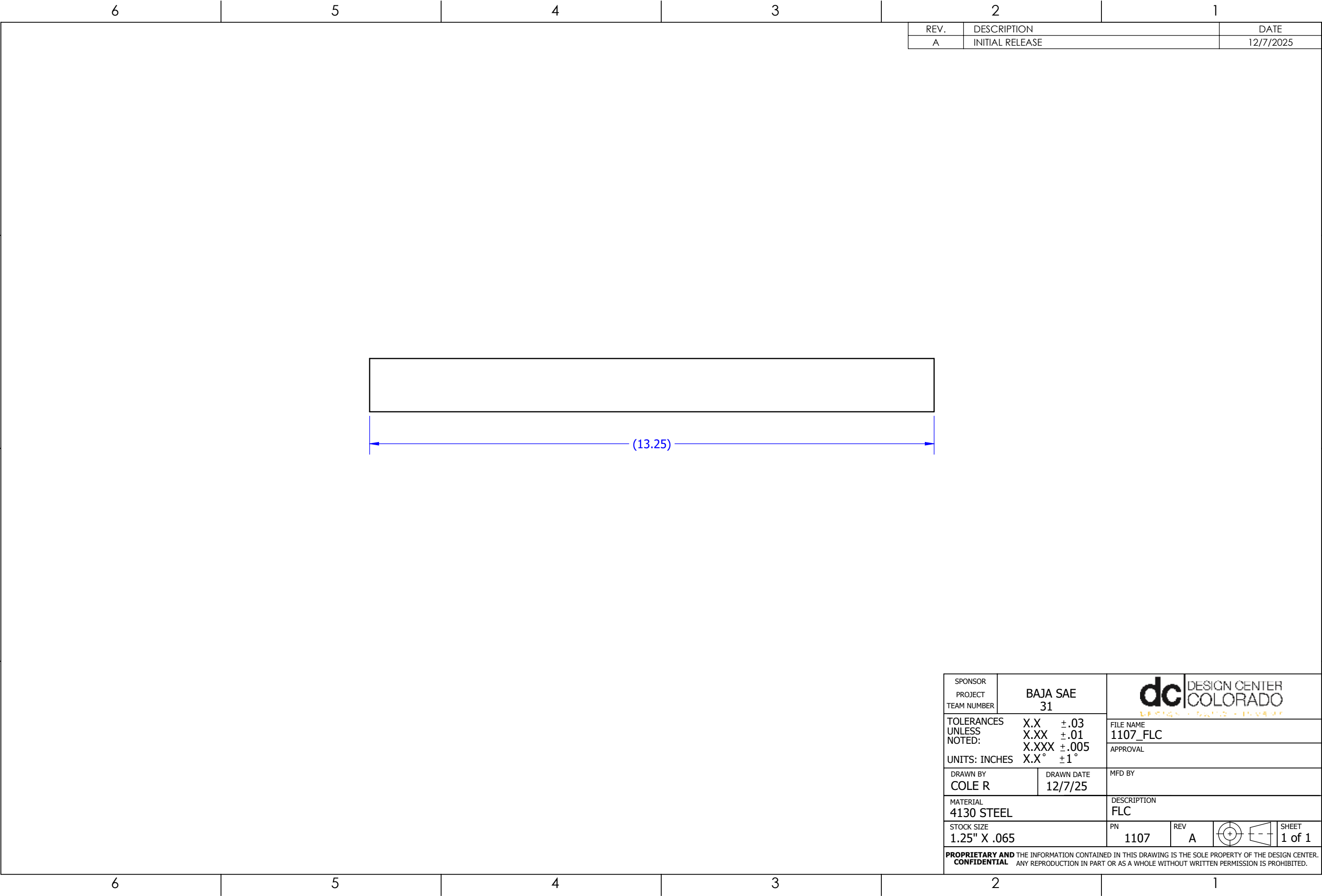
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/7/2025

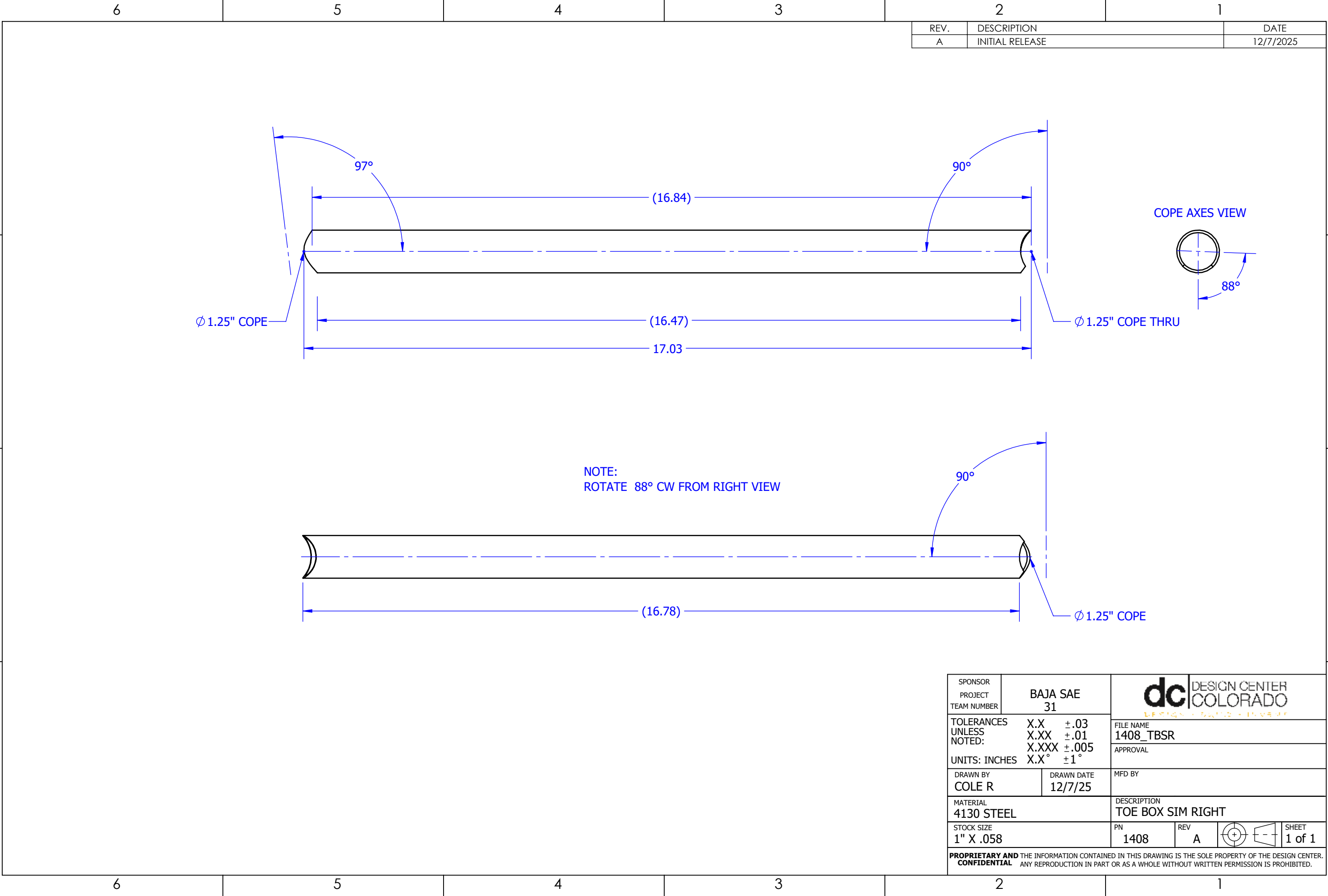
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE	
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005		FILE NAME 1204_FSML	
				APPROVAL	
UNITS: INCHES		X.X° ±1°			
DRAWN BY COLE R		DRAWN DATE 12/7/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION FRONT SUSPENSION MOUNT LEFT	
STOCK SIZE 1" X .049				PN 1204	REV A
					
SHEET 1 of 1					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

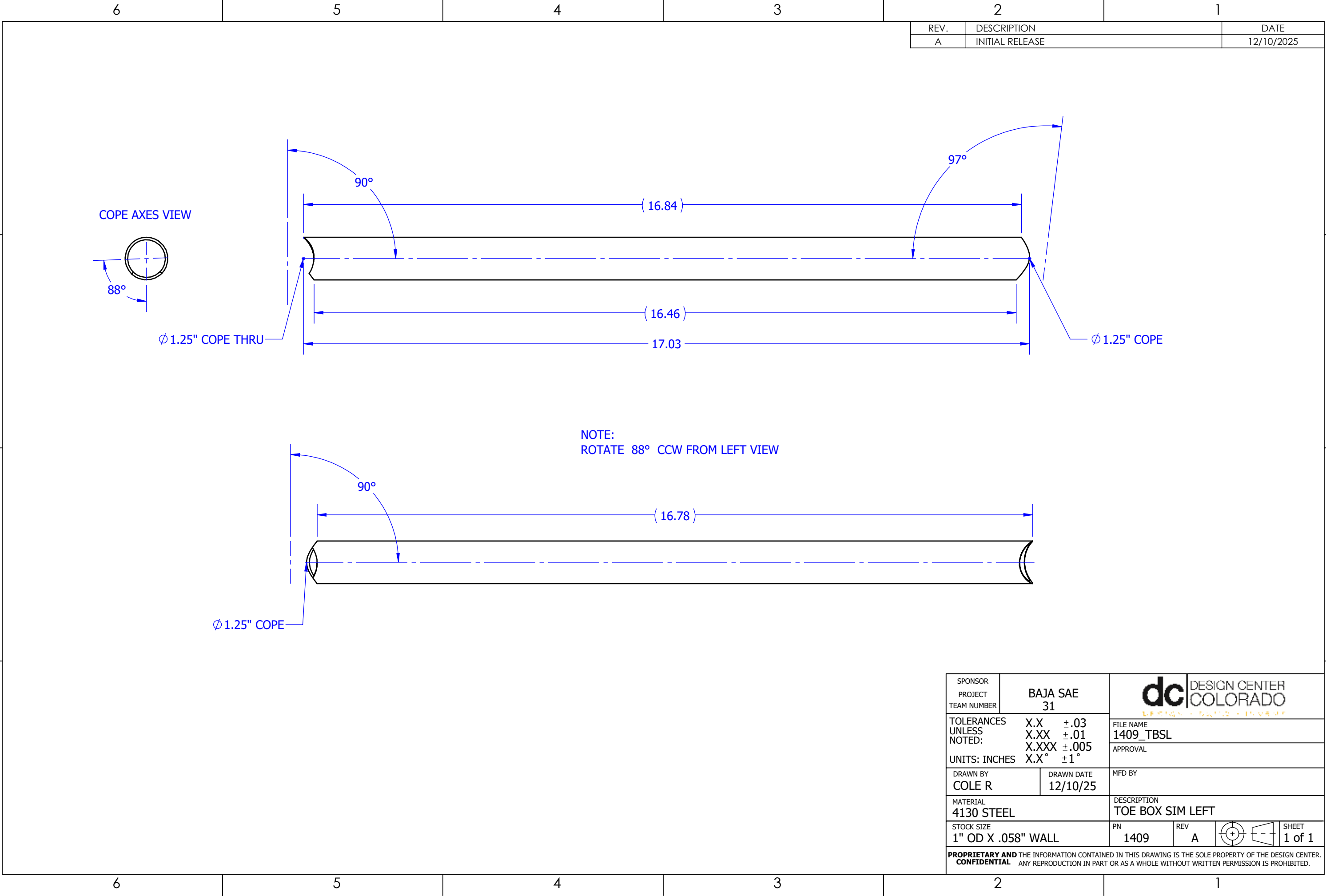
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.











6

5

4

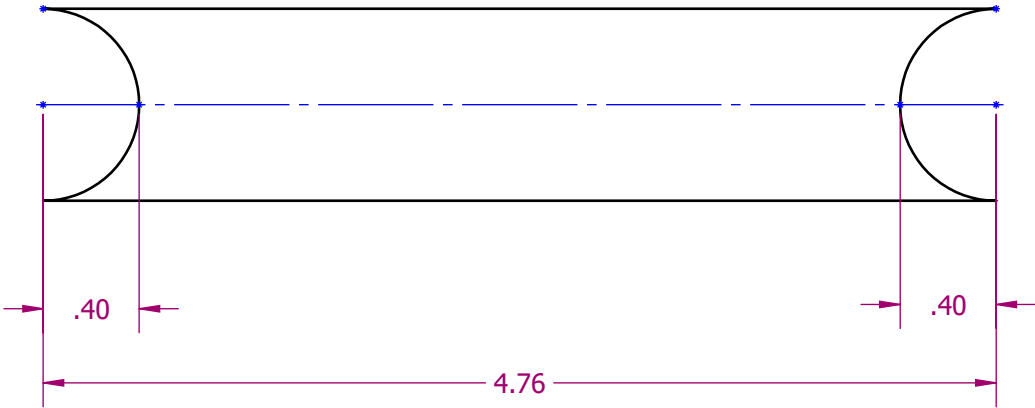
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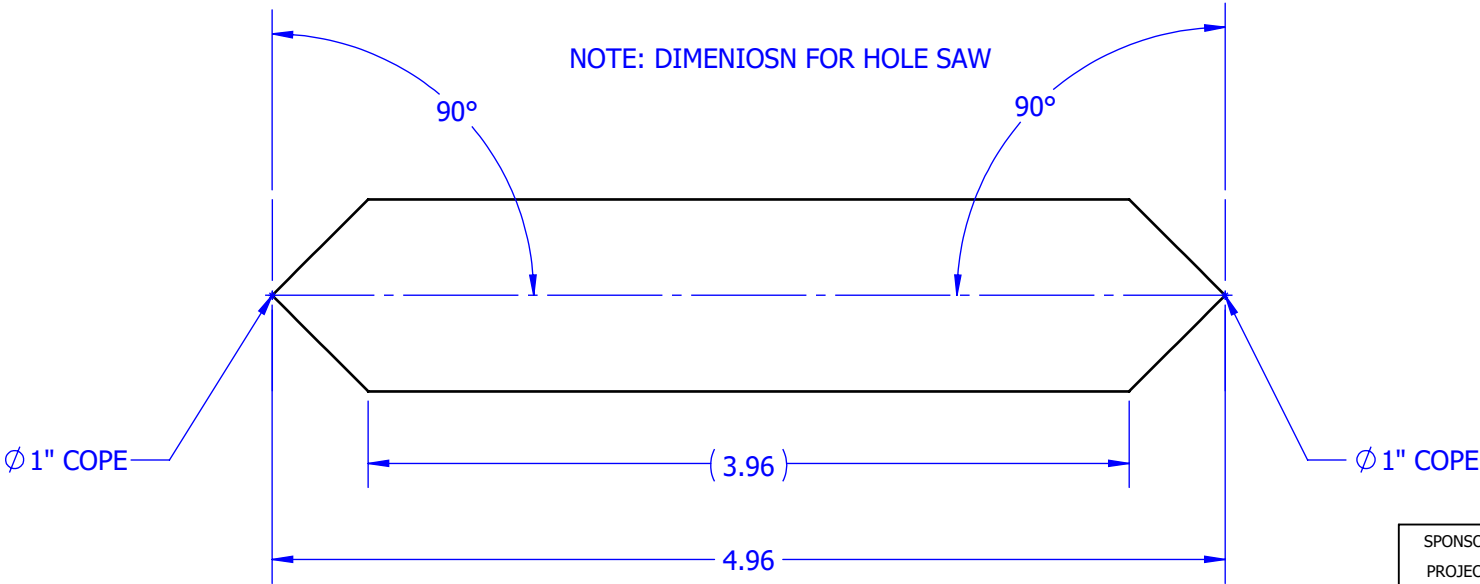
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/10/2025

NOTE:
REFERENCE DIMENSIONS FOR TUBE NOTCHER
CONTROL DEPTH OF COPE

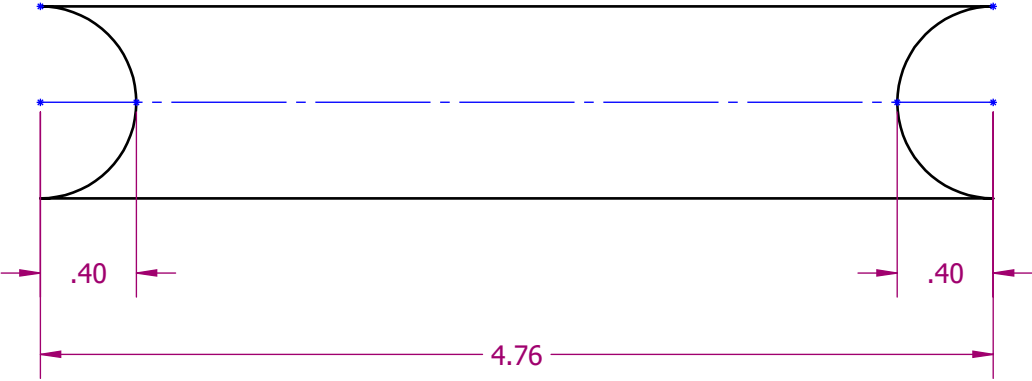


NOTE: DIMENIOSN FOR HOLE SAW

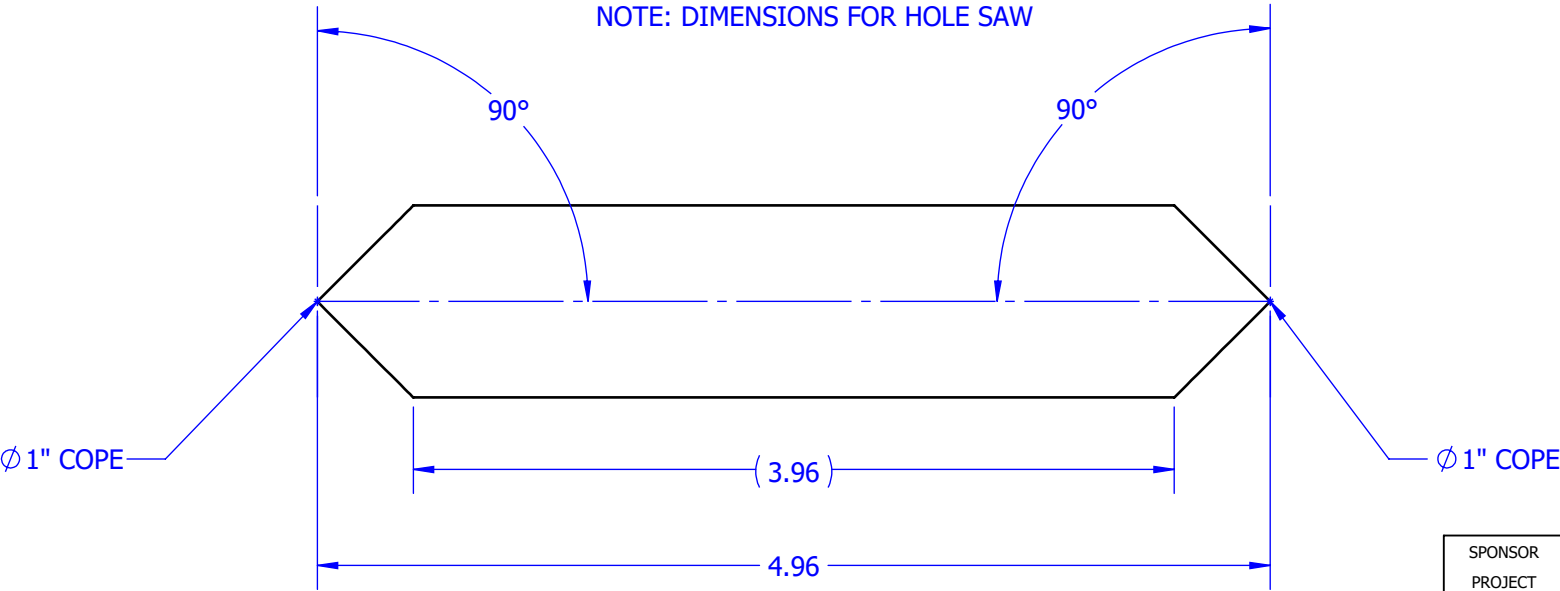


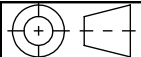
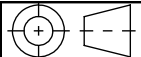
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31				
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005	FILE NAME 1410_FSVSR		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY COLE R		DRAWN DATE 12/10/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION FRONT SUS VERTICAL SUPPORT RIGHT		
STOCK SIZE 1" OD X .058" WALL			PN 1410	REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

NOTE:
REFERENCE DIMENSIONS FOR TUBE NOTCHER
CONTROL DEPTH OF COPE



NOTE: DIMENSIONS FOR HOLE SAW



SPONSOR		dc DESIGN CENTER COLORADO DESIGN • BUILD • POWER	
PROJECT			
TEAM NUMBER			
BAJA SAE 31		FILE NAME 1411_FSVSL	
TOLERANCES UNLESS NOTED:	X.X	±.03	APPROVAL
	X.XX	±.01	
	X.XXX	±.005	
UNITS: INCHES	X.X°	±1°	
DRAWN BY COLE R		DRAWN DATE 12/10/25	
MATERIAL 4130 STEEL		DESCRIPTION FRONT SUS VERTICAL SUPPORT LEFT	
STOCK SIZE 1" OD X .058 WALL TUBE		PN 1411	REV A
			
PROPRIETARY AND CONFIDENTIAL		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
		SHEET 1 of 1	

6

5

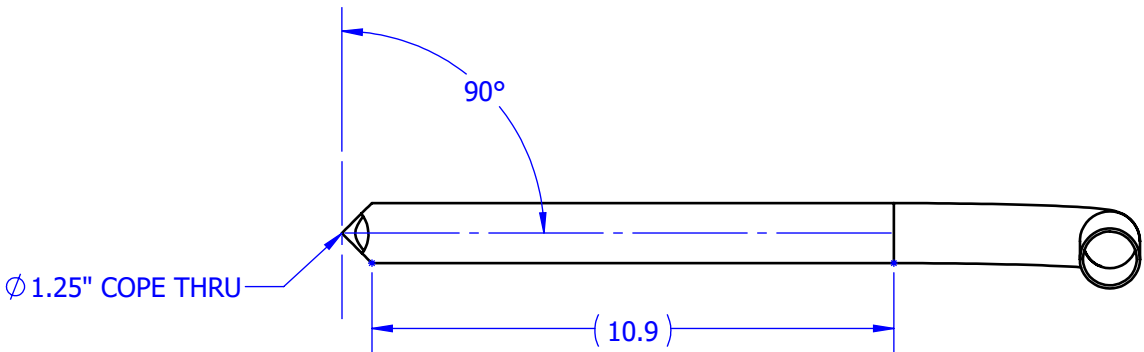
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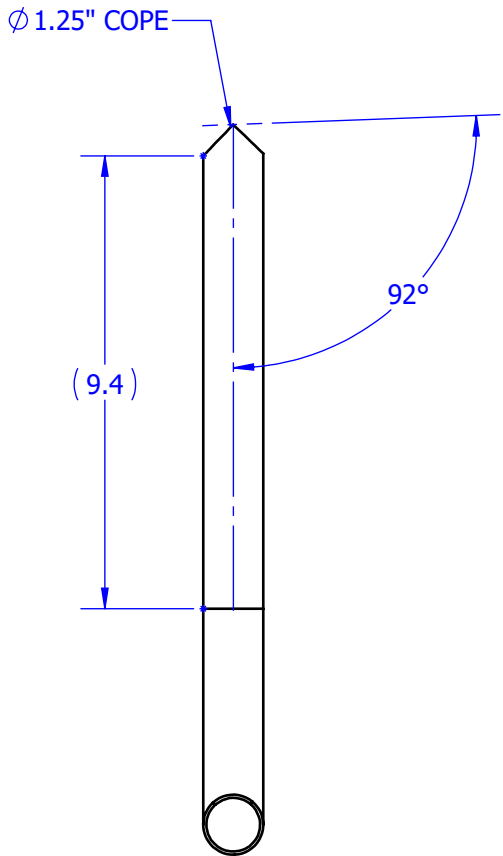
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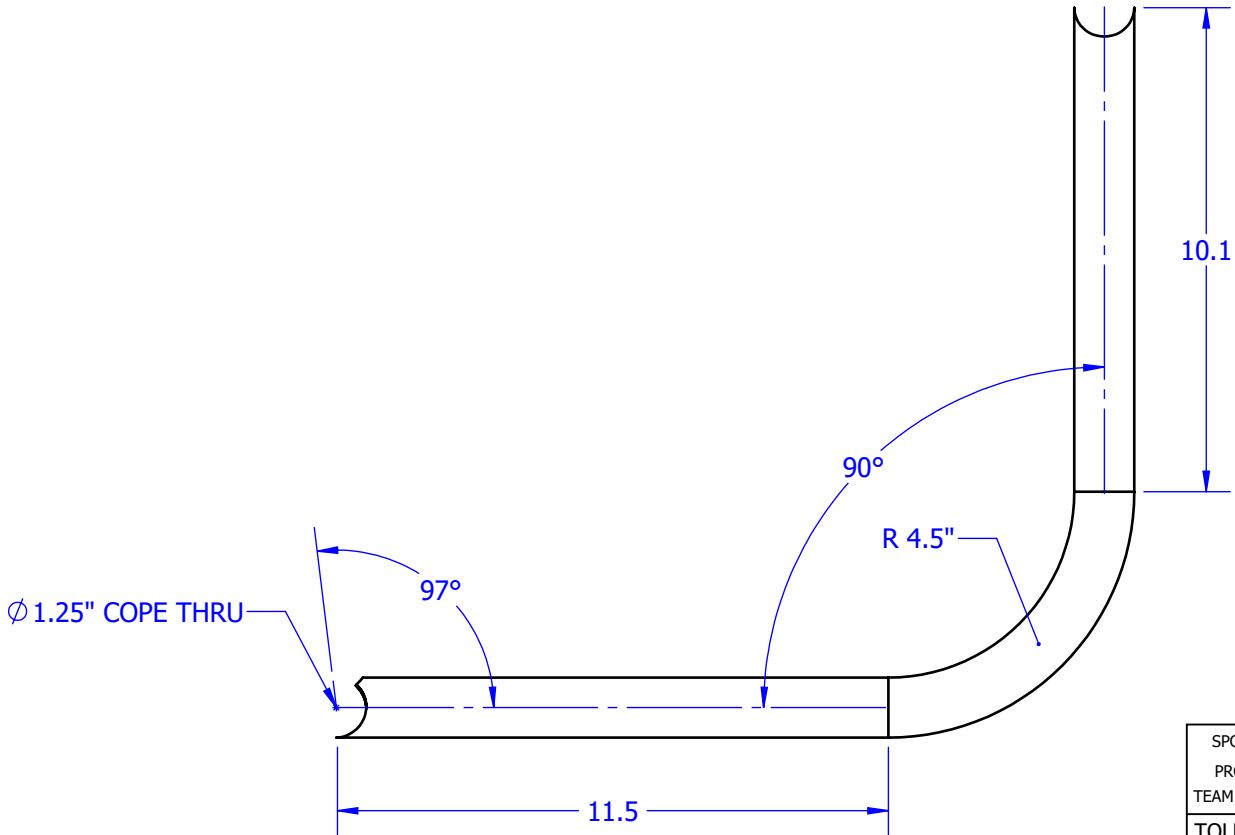
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/10/2025



NOTE: TOPE VIEW ROTATED (92.2°) FROM FRONT VIEW



NOTE: 90° ROTATION



SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	 DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE SUCCEED			
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005	FILE NAME 1112_NR		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY COLE R		DRAWN DATE 12/10/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION NOSE RIGHT		
STOCK SIZE 1.25" OD X .065" WALL			PN 1112	REV A	  SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6

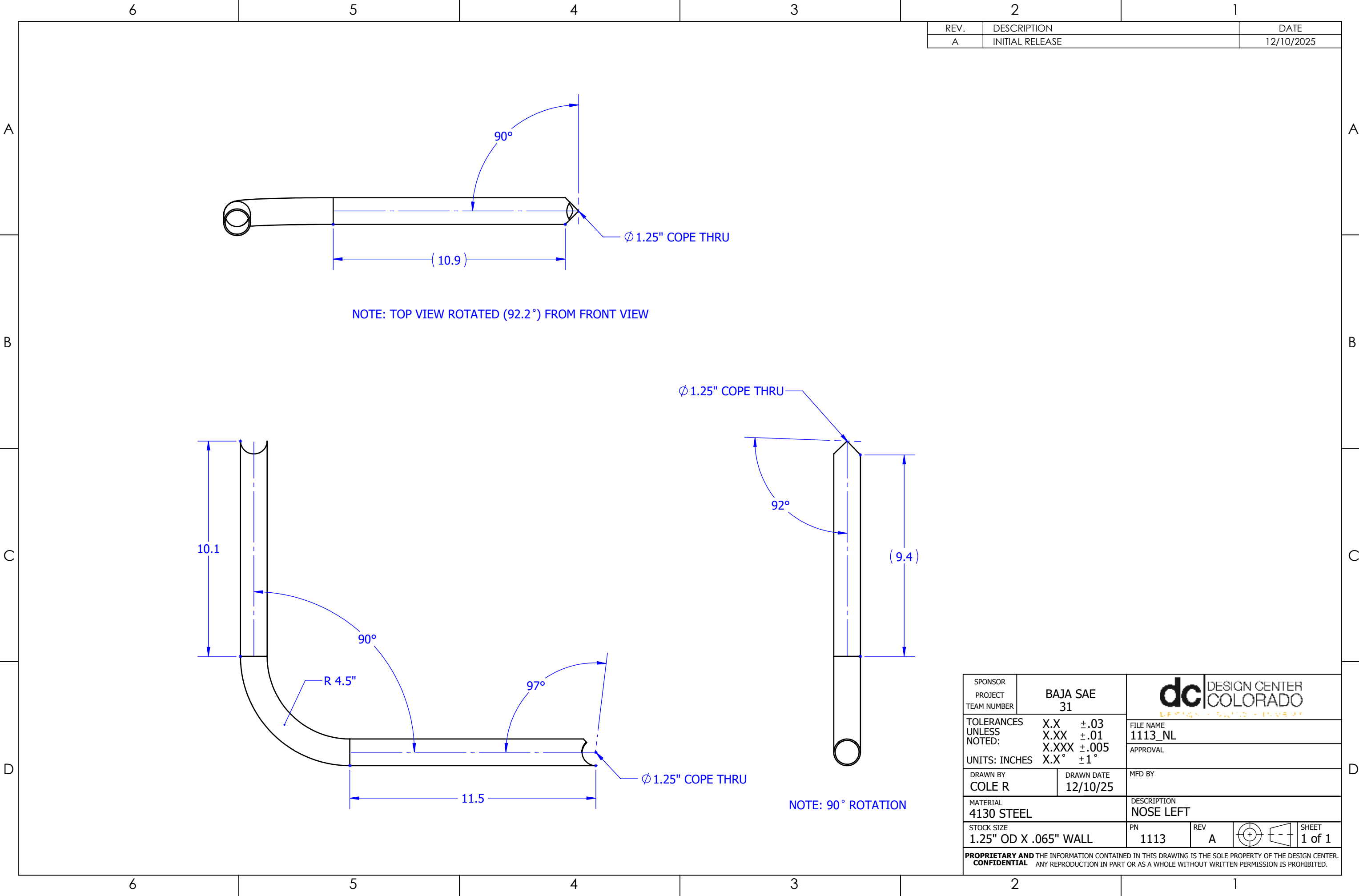
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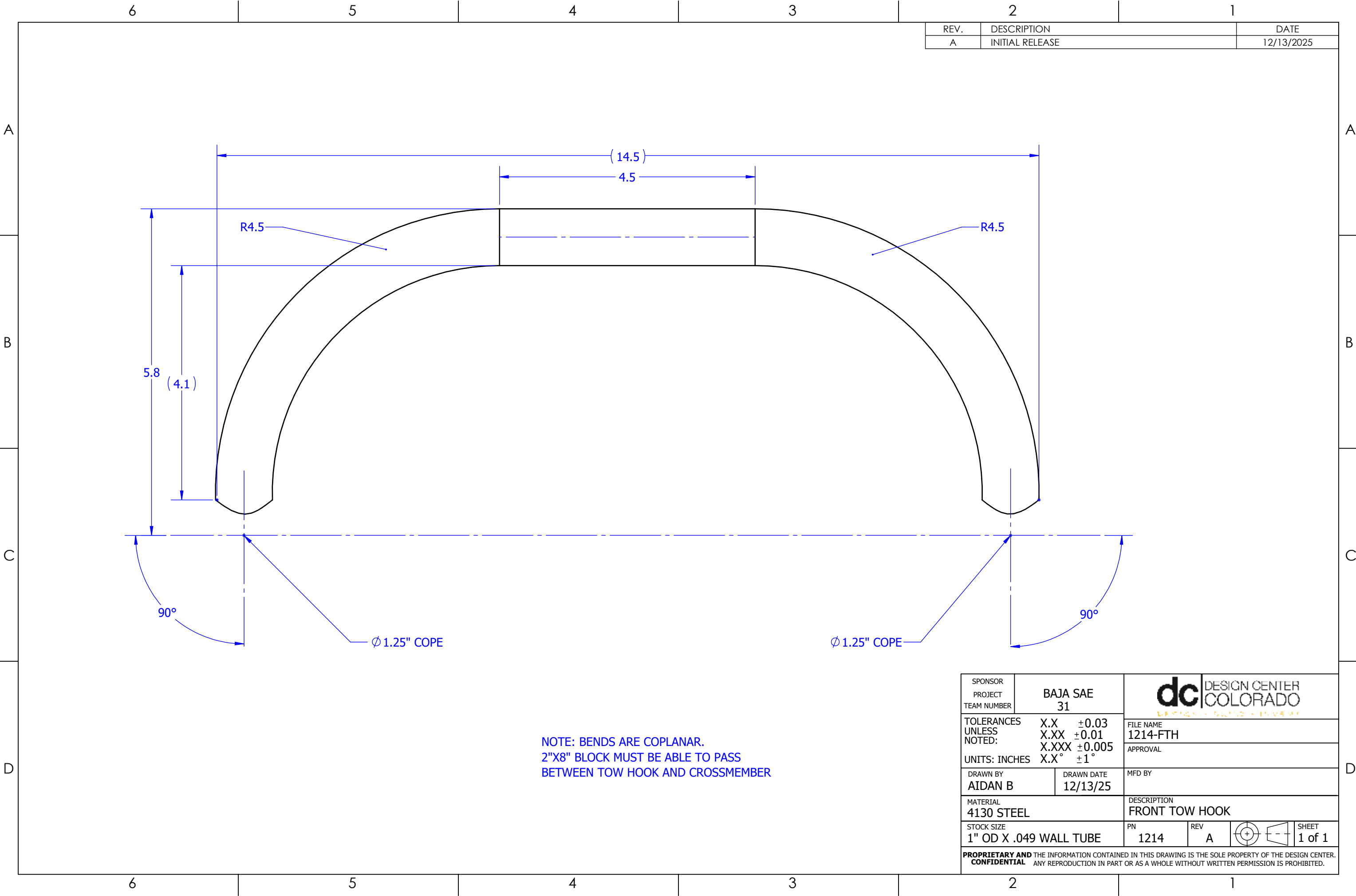
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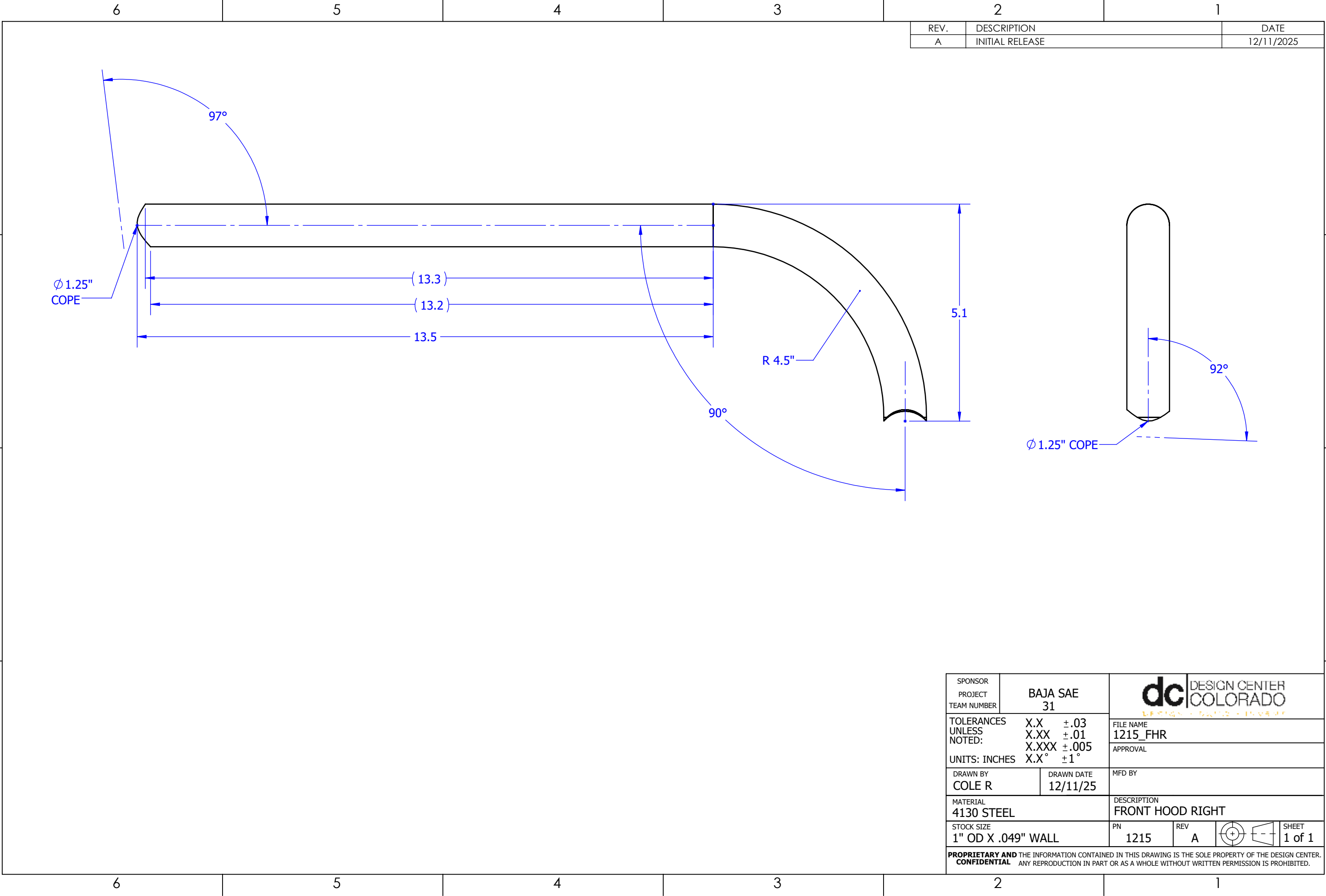
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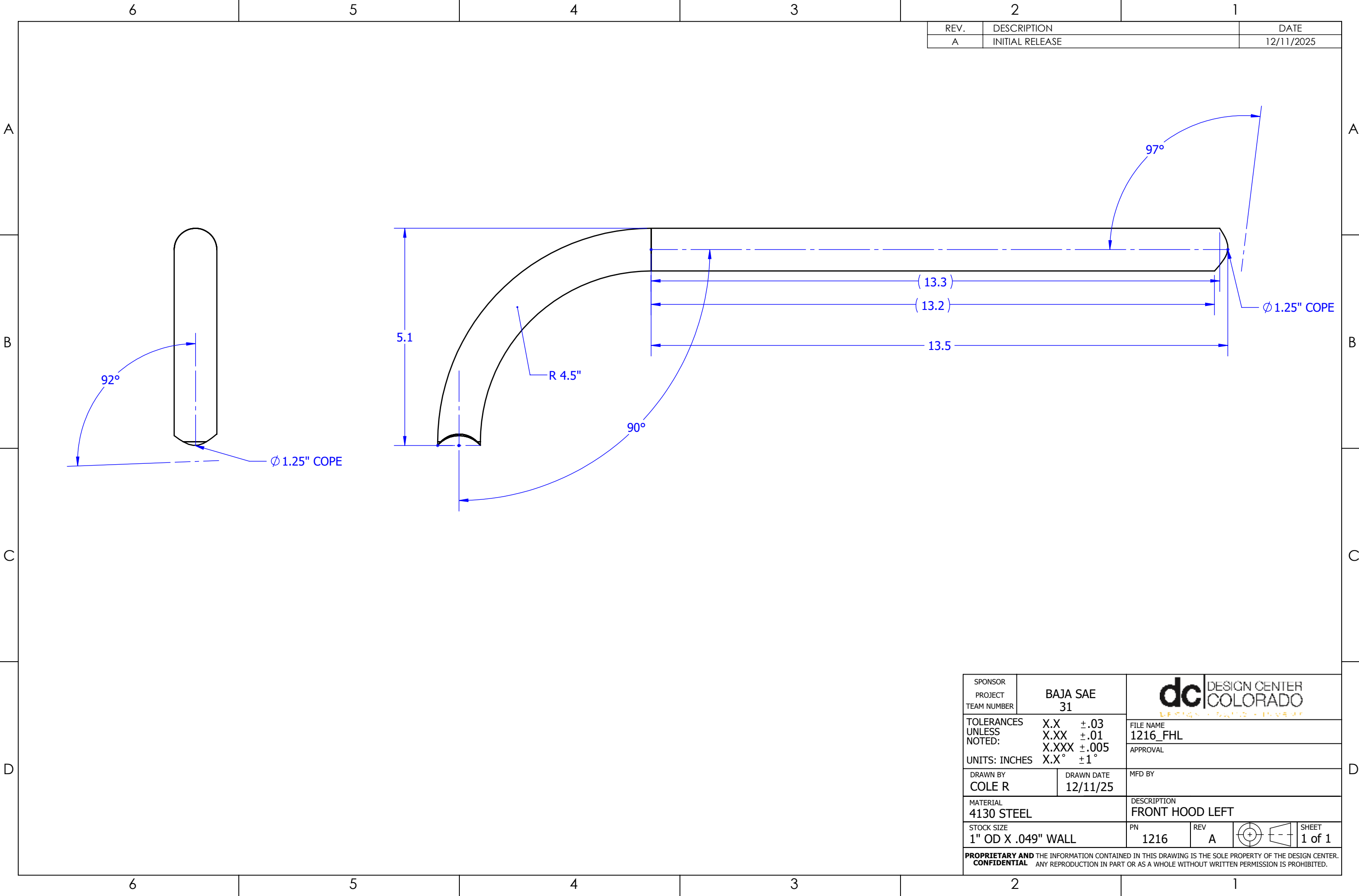
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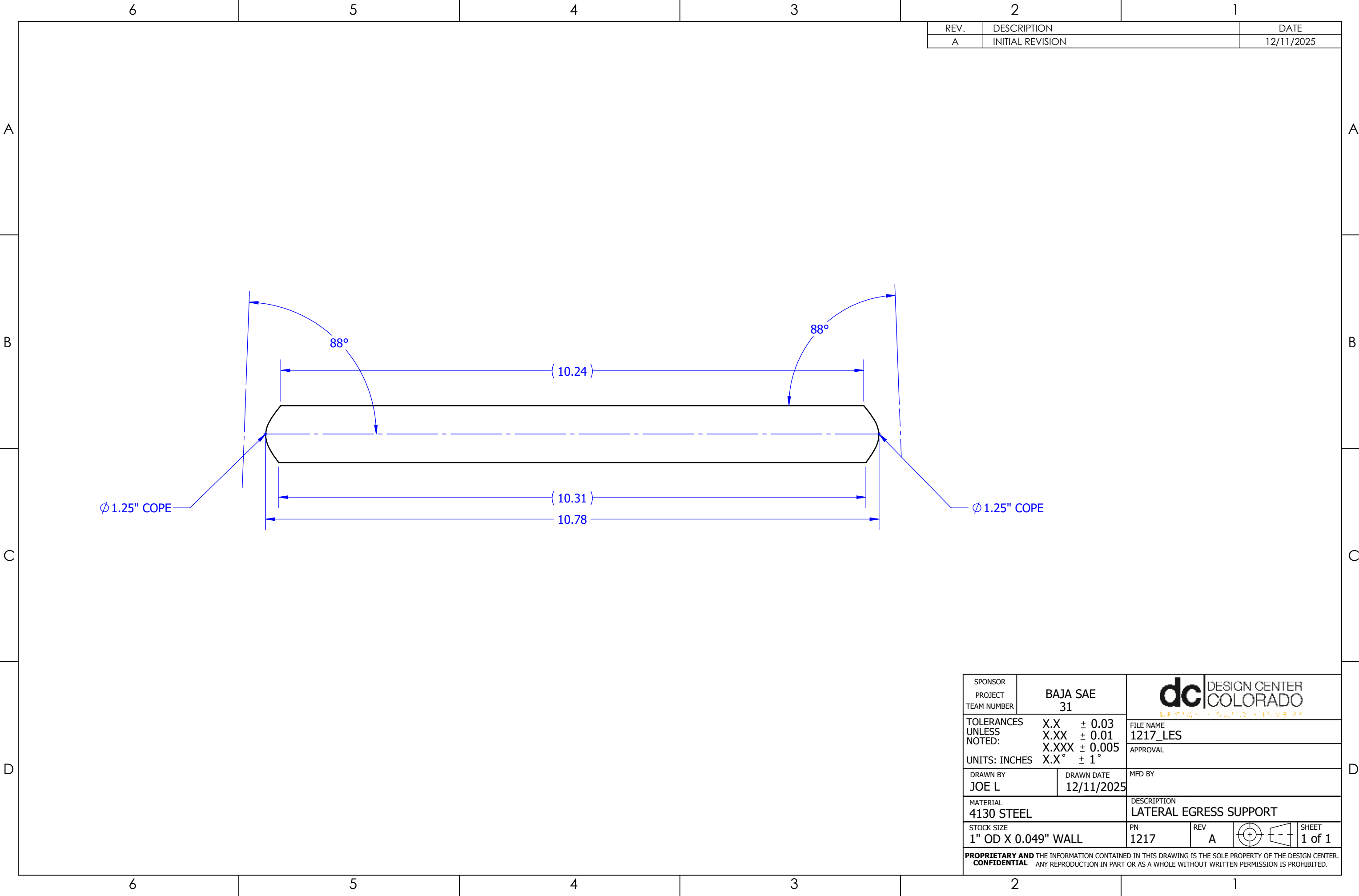




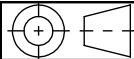


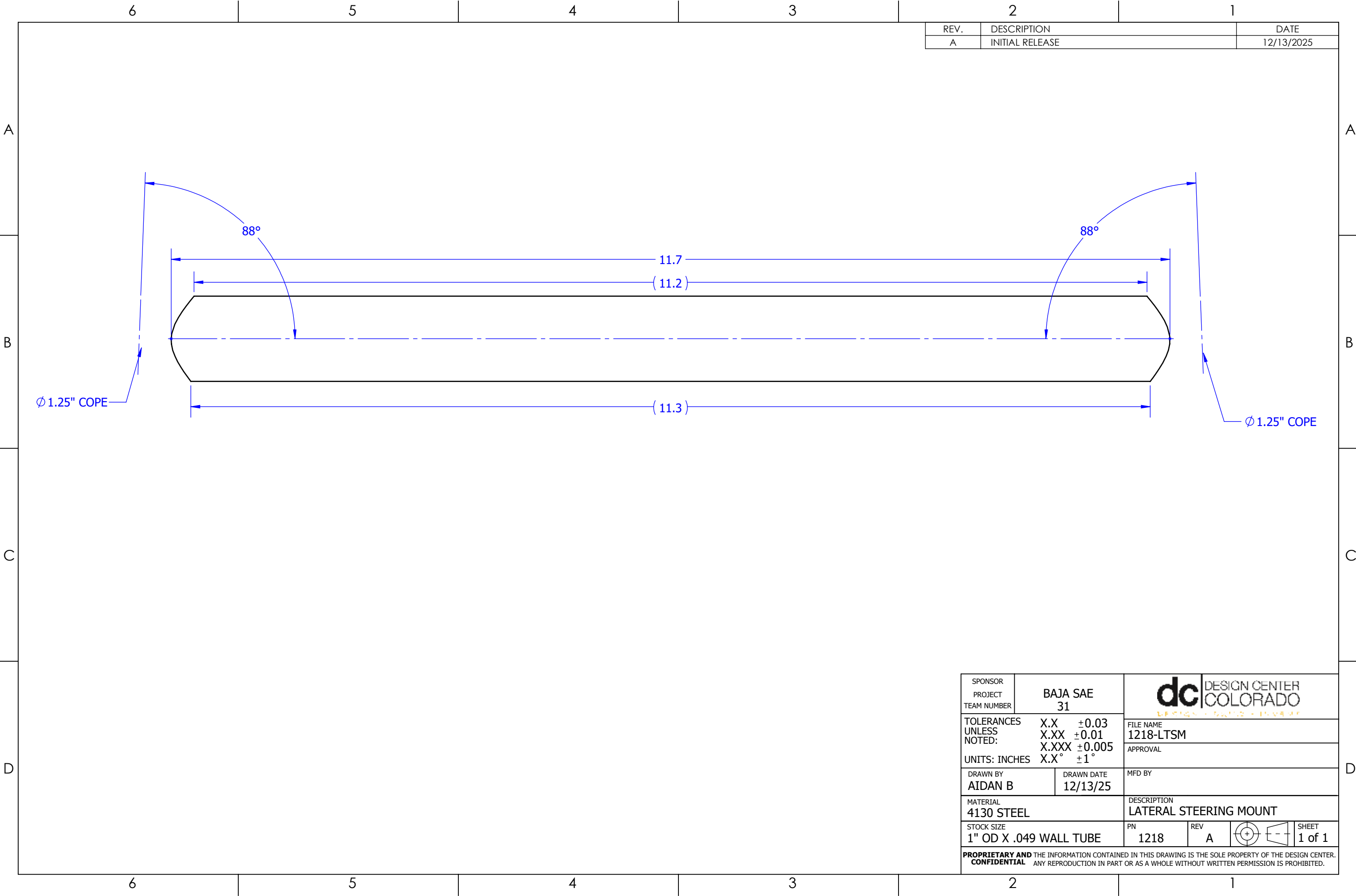
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

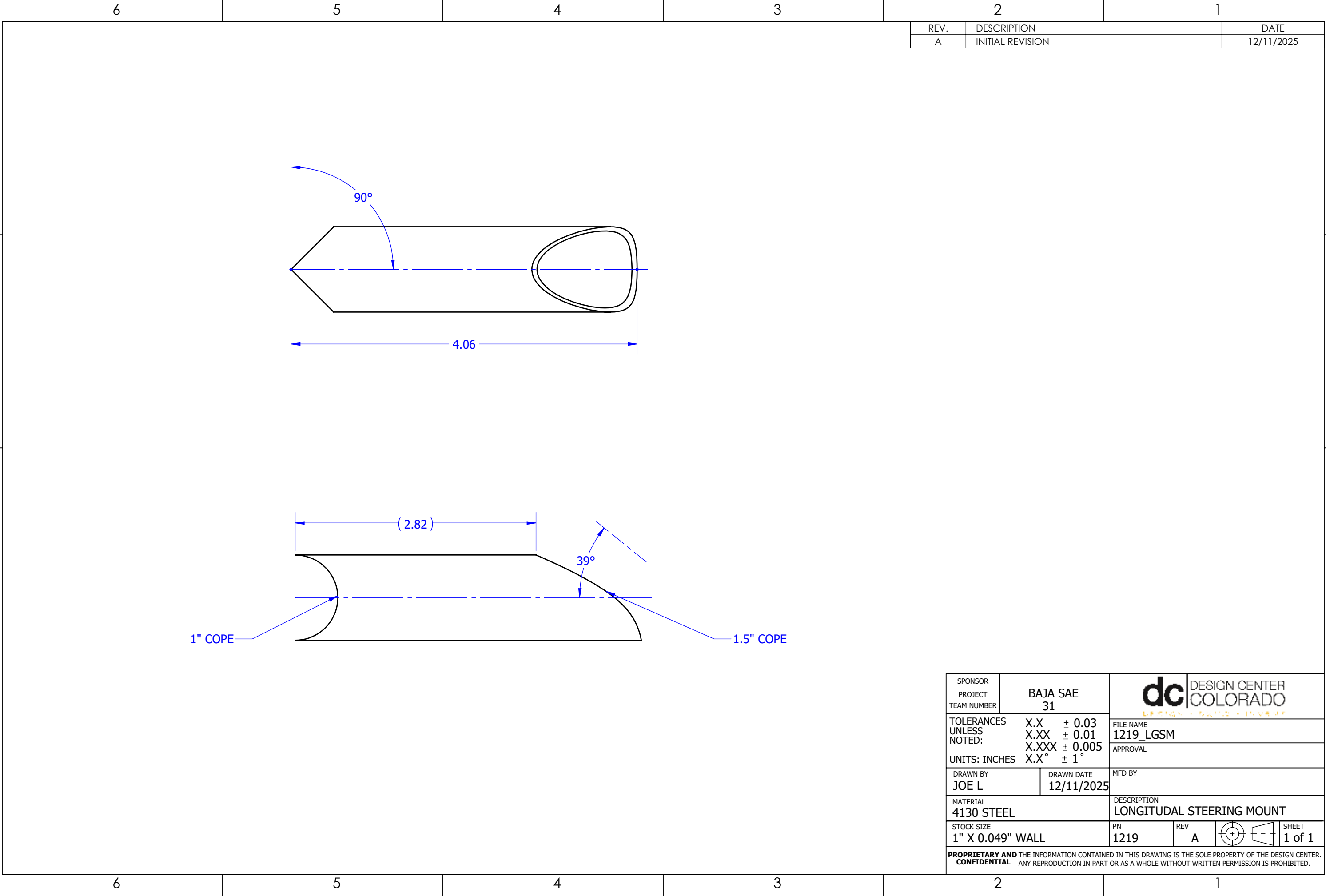
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005		FILE NAME 1216_FHL	
				APPROVAL	
UNITS: INCHES		X.X° ±1°			
DRAWN BY COLE R		DRAWN DATE 12/11/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION FRONT HOOD LEFT	
STOCK SIZE 1" OD X .049" WALL				PN 1216	REV A
					
SHEET 1 of 1					
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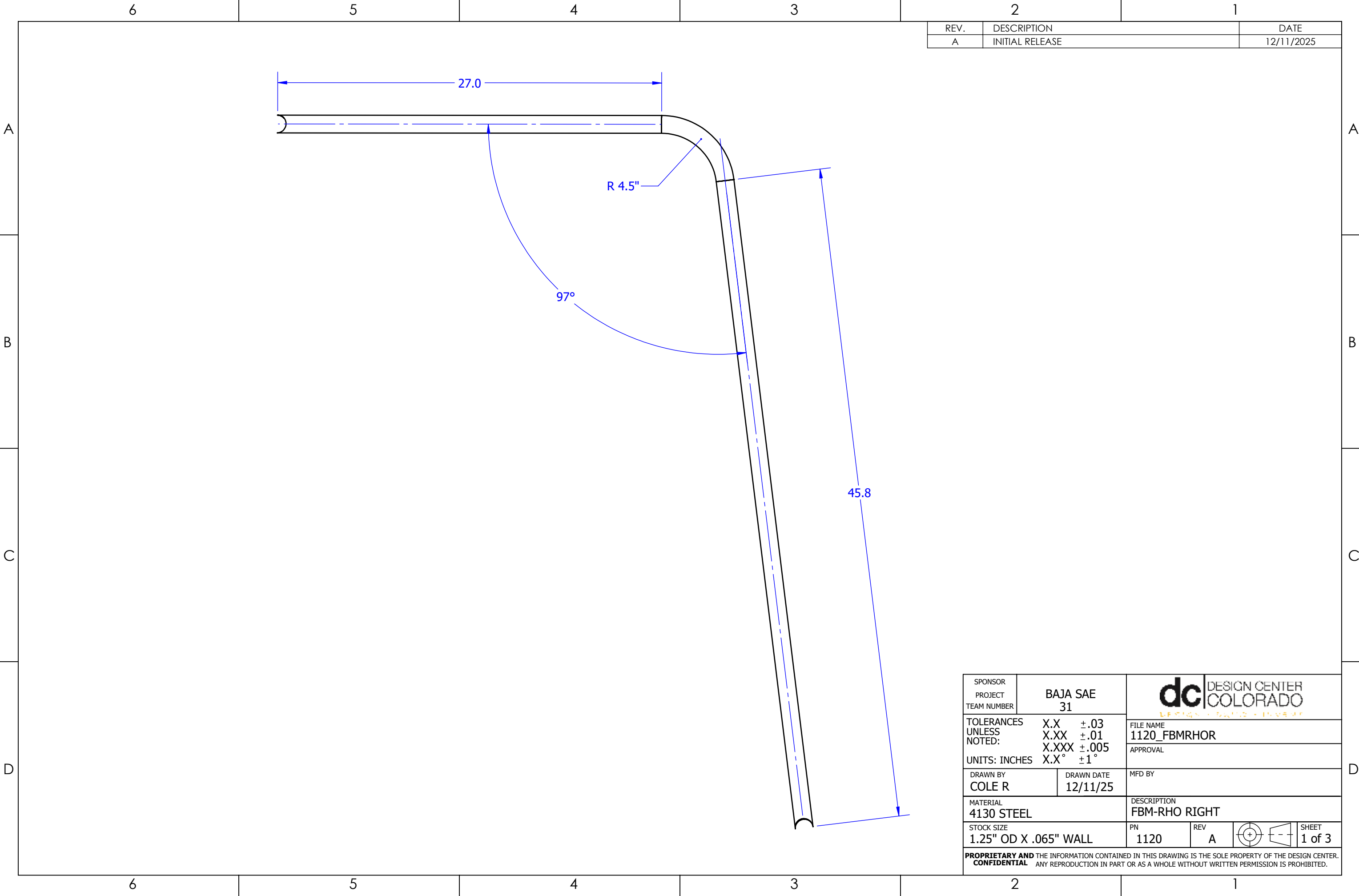


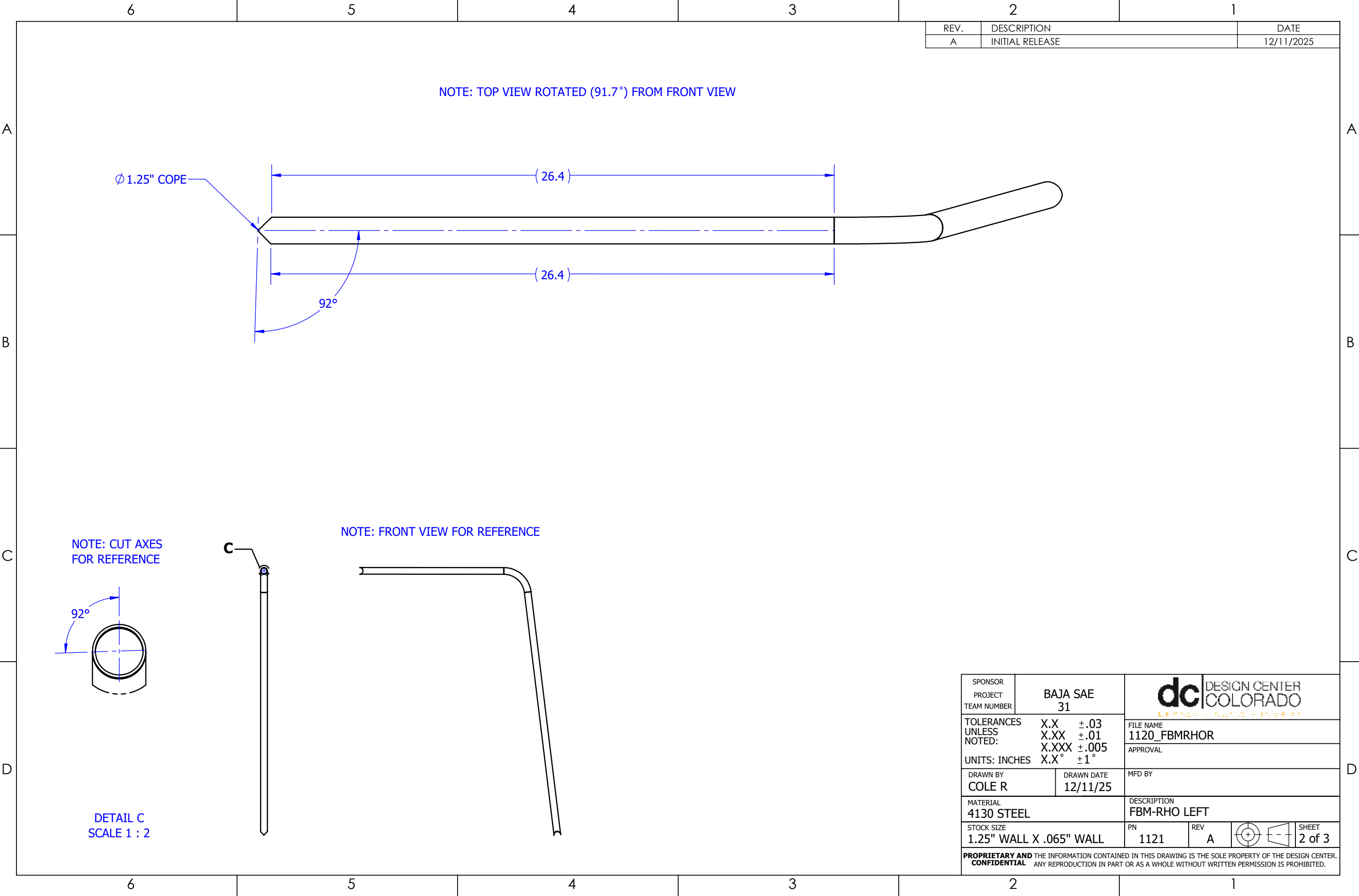
REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/11/2025

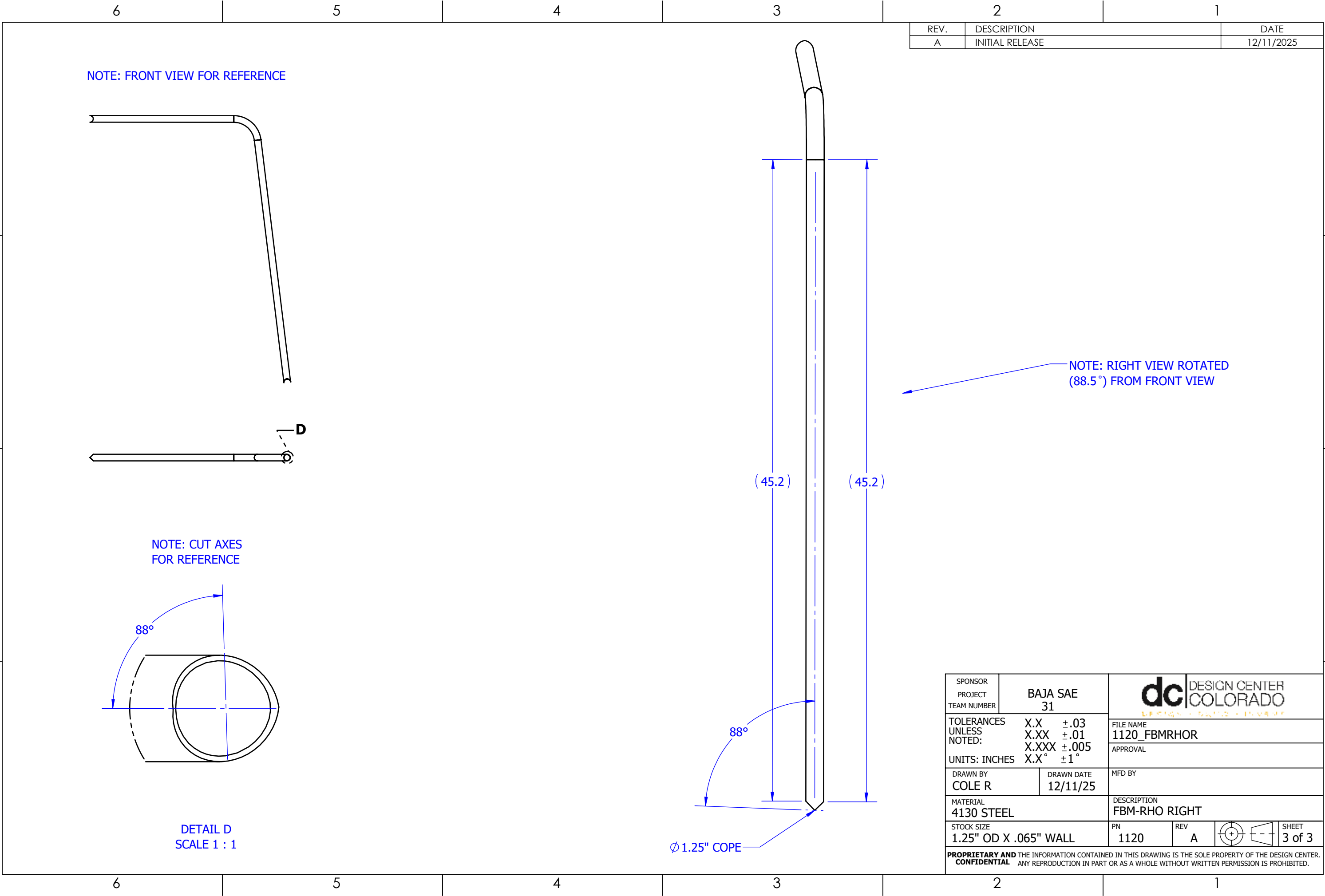
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE IMPROVE	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± 1°		FILE NAME 1217_LES	
				APPROVAL	
		DRAWN BY JOE L		MFD BY	
		DRAWN DATE 12/11/2025			
MATERIAL 4130 STEEL				DESCRIPTION LATERAL EGRESS SUPPORT	
STOCK SIZE 1" OD X 0.049" WALL		PN 1217	REV A		SHEET 1 of 1
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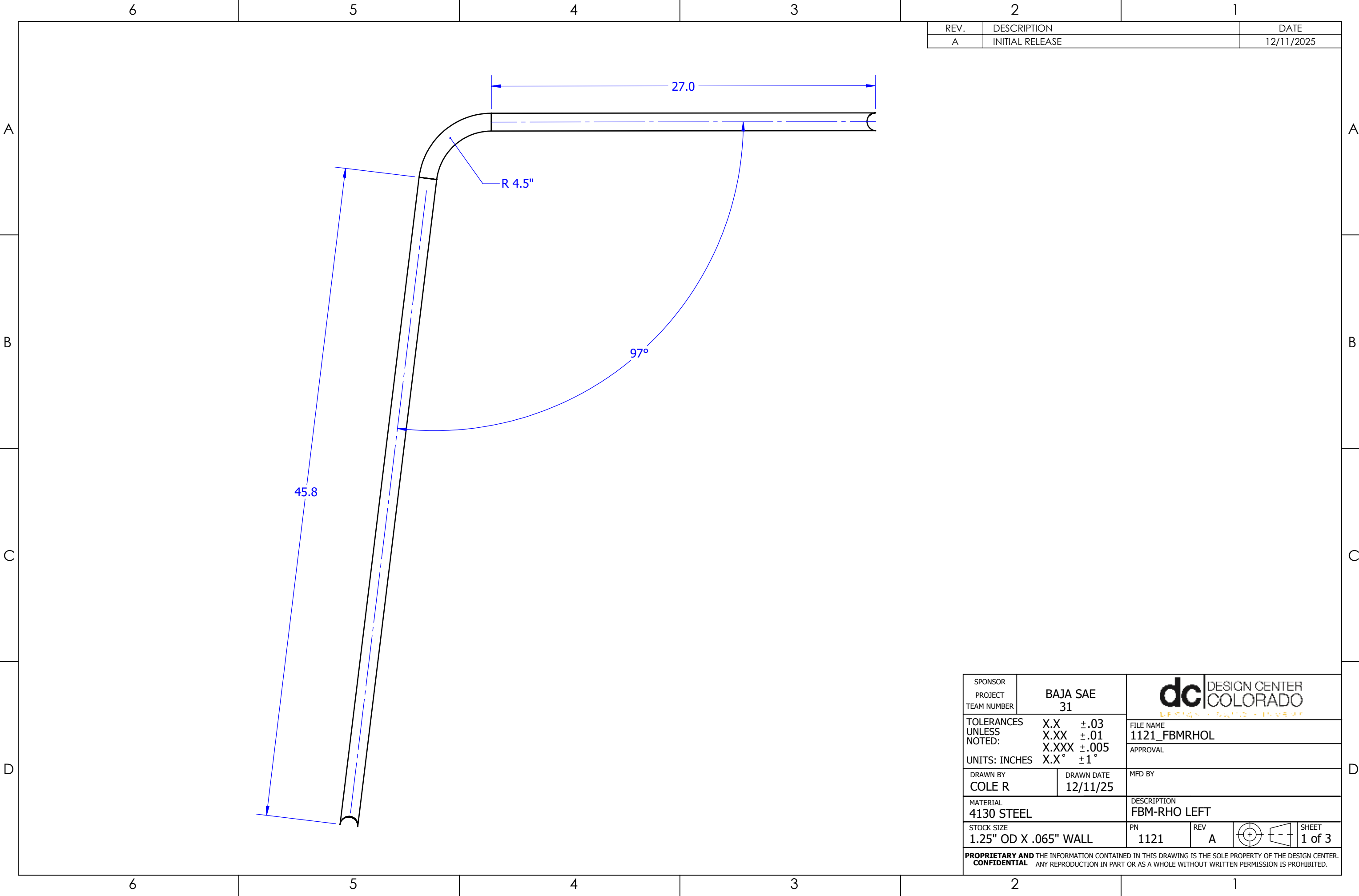


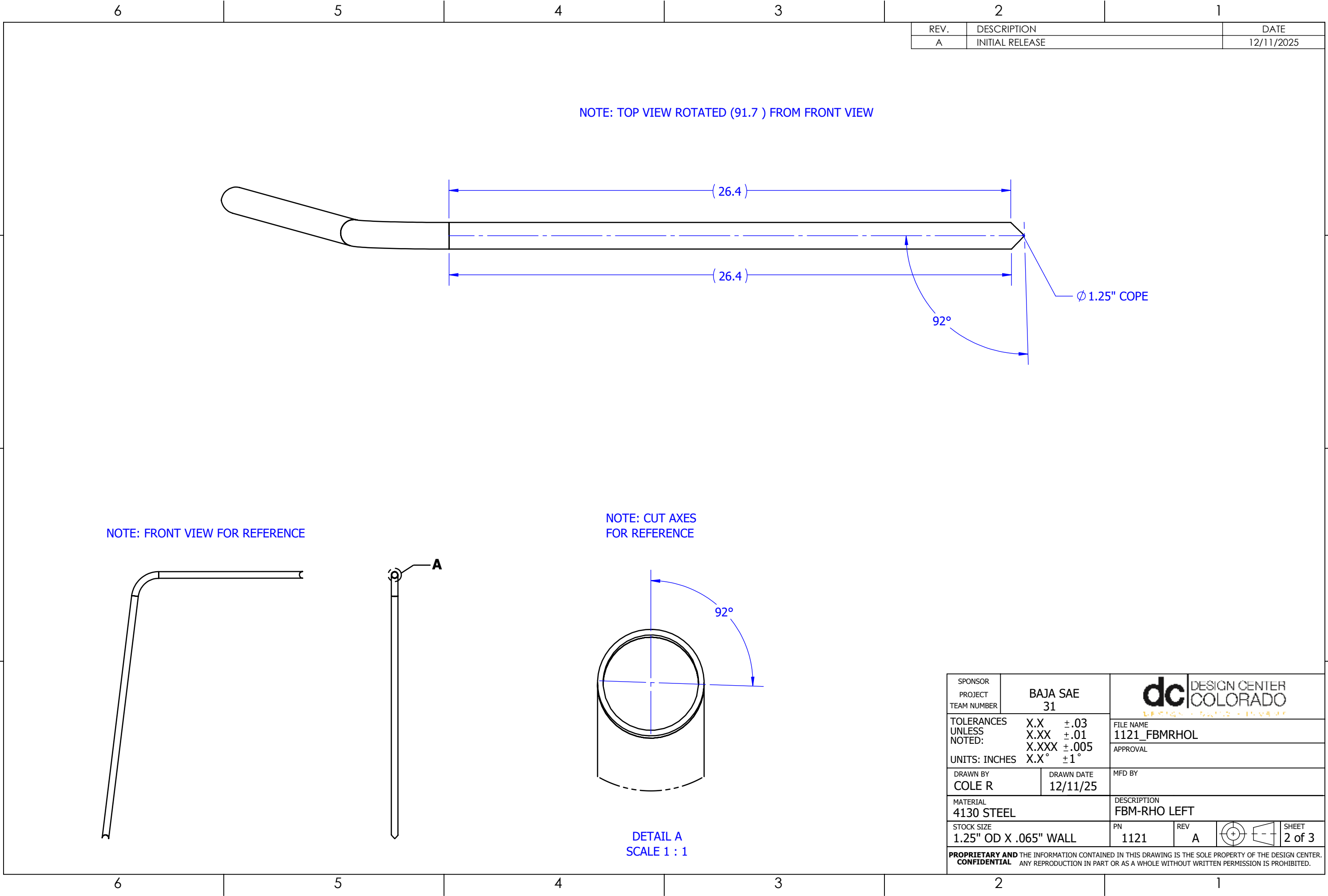


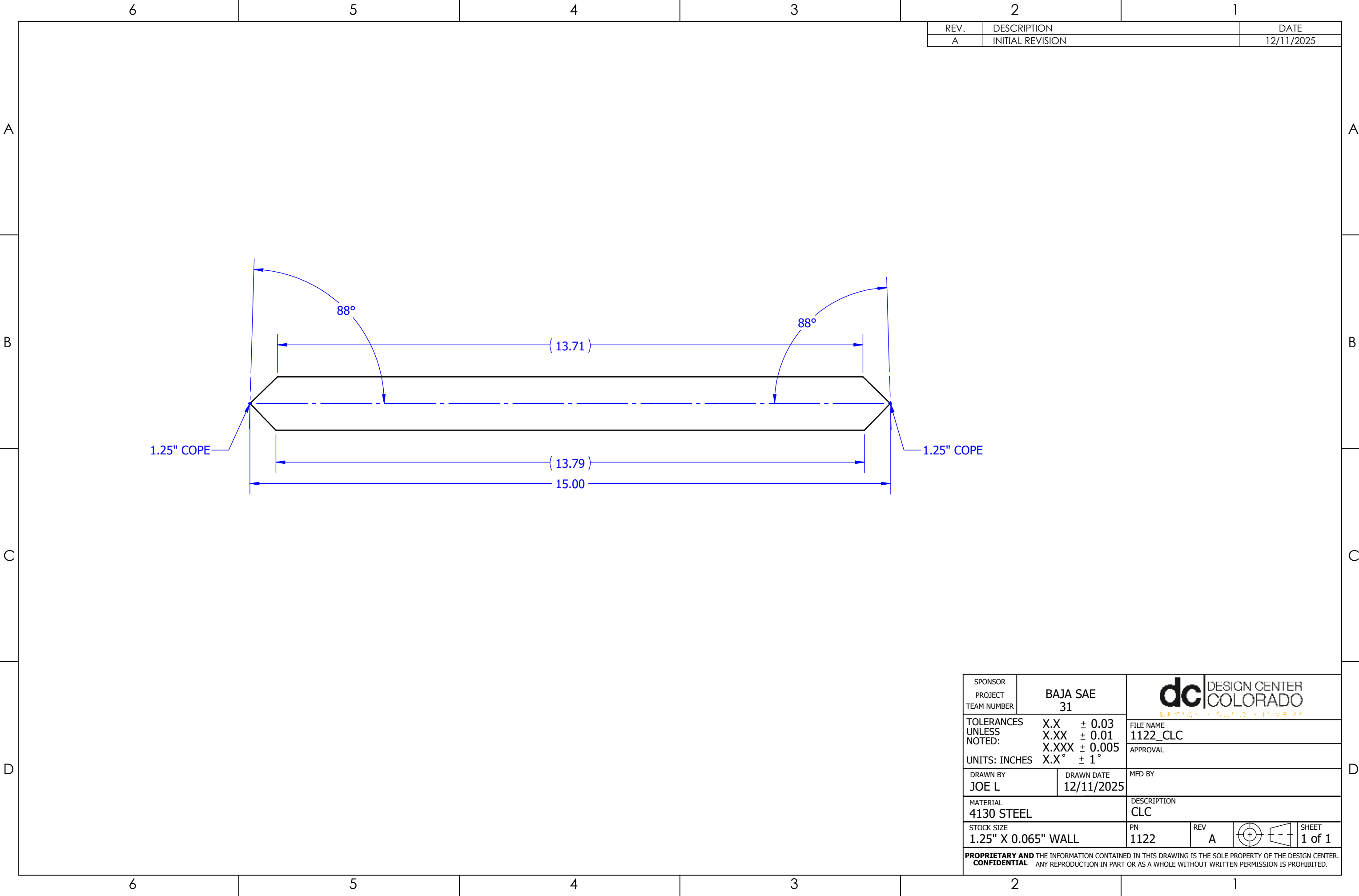


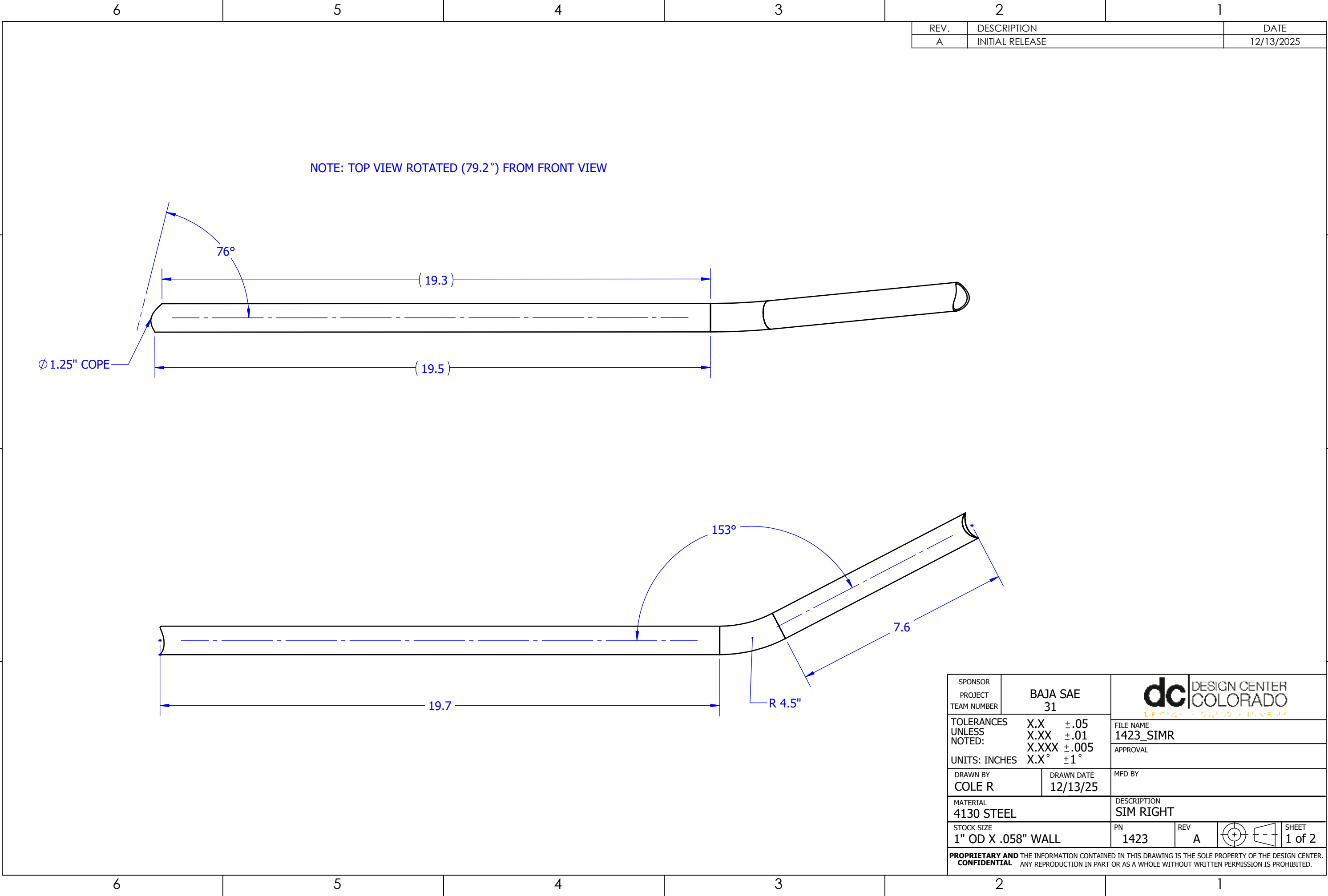


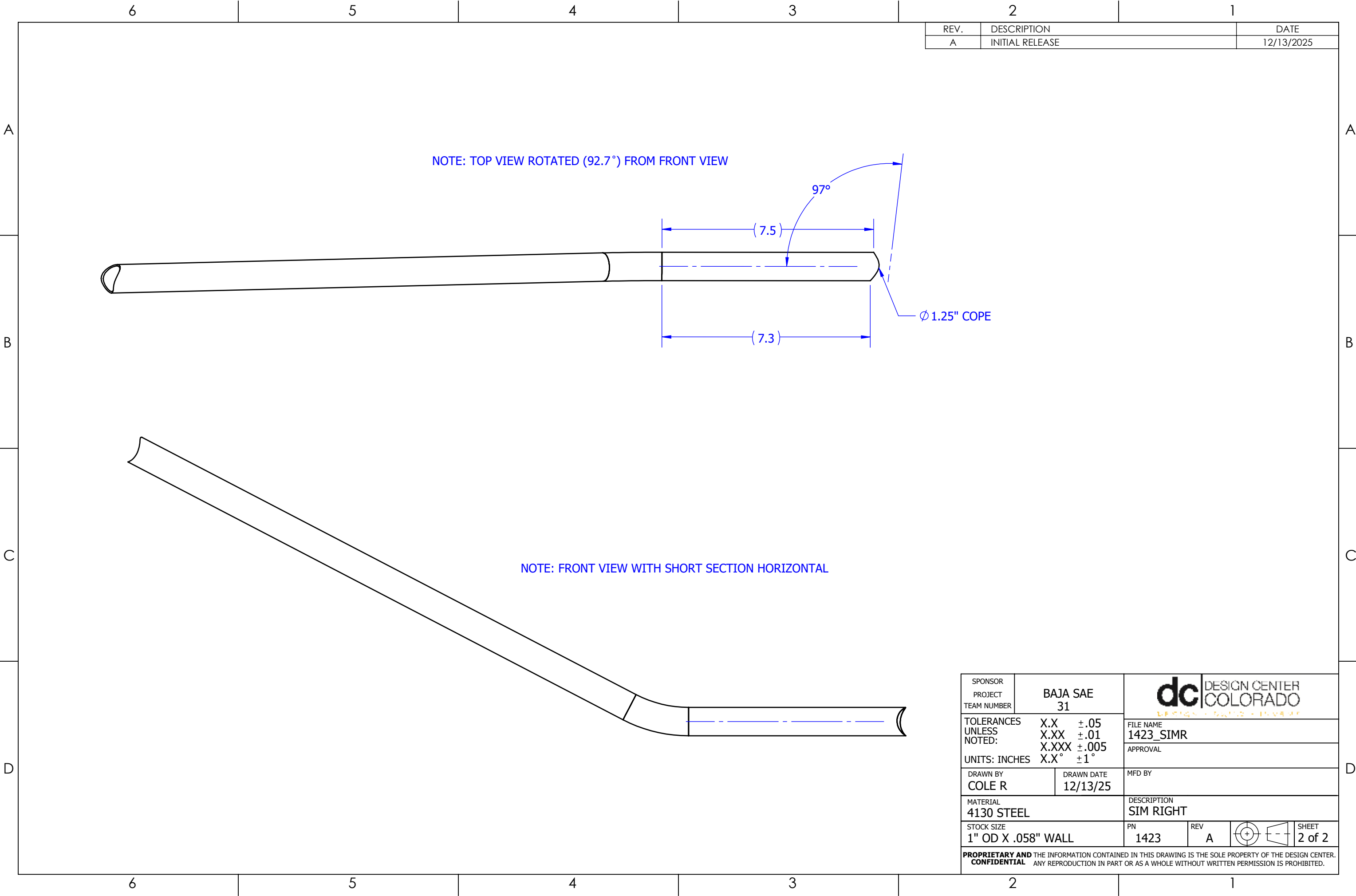


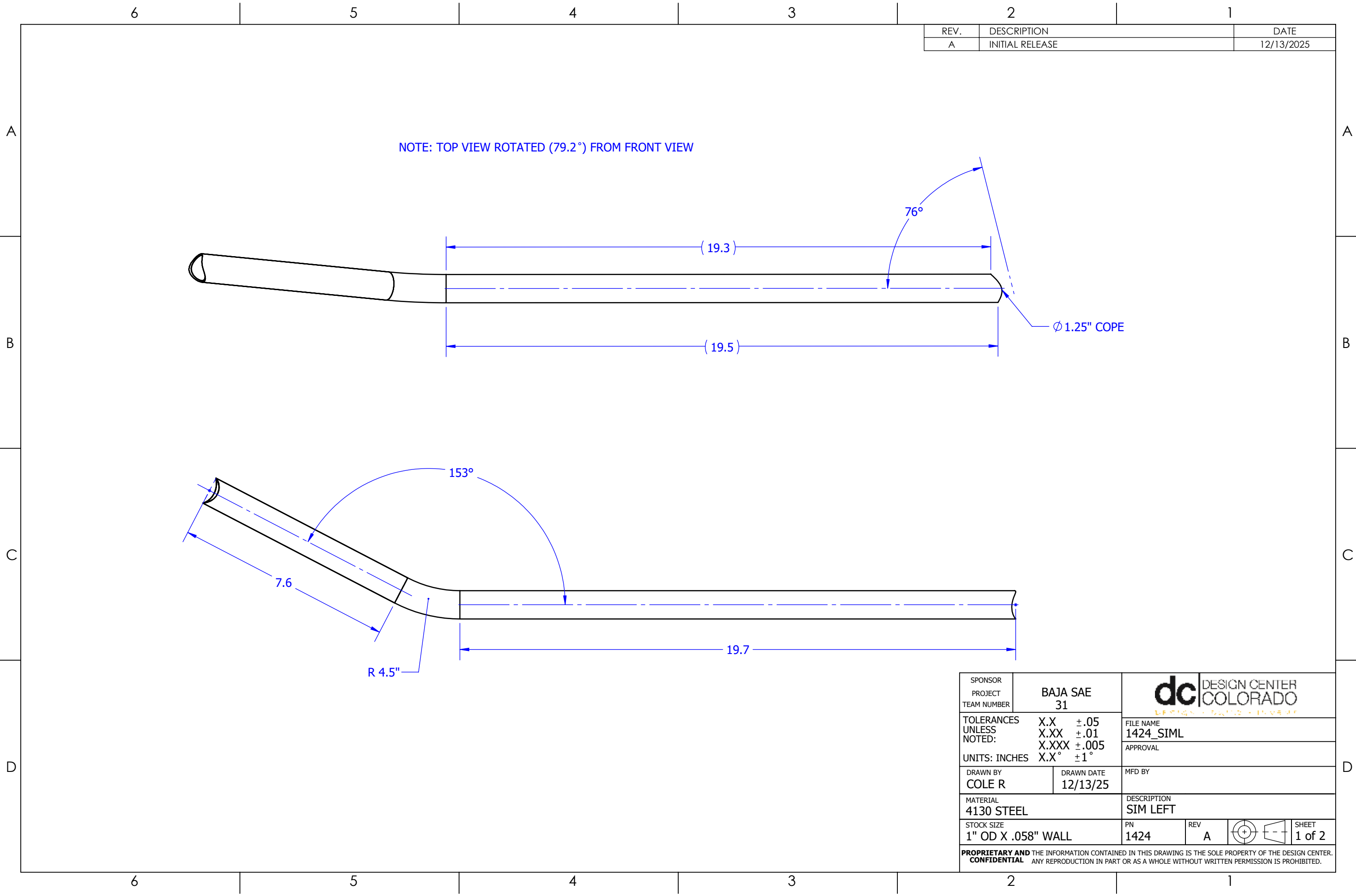


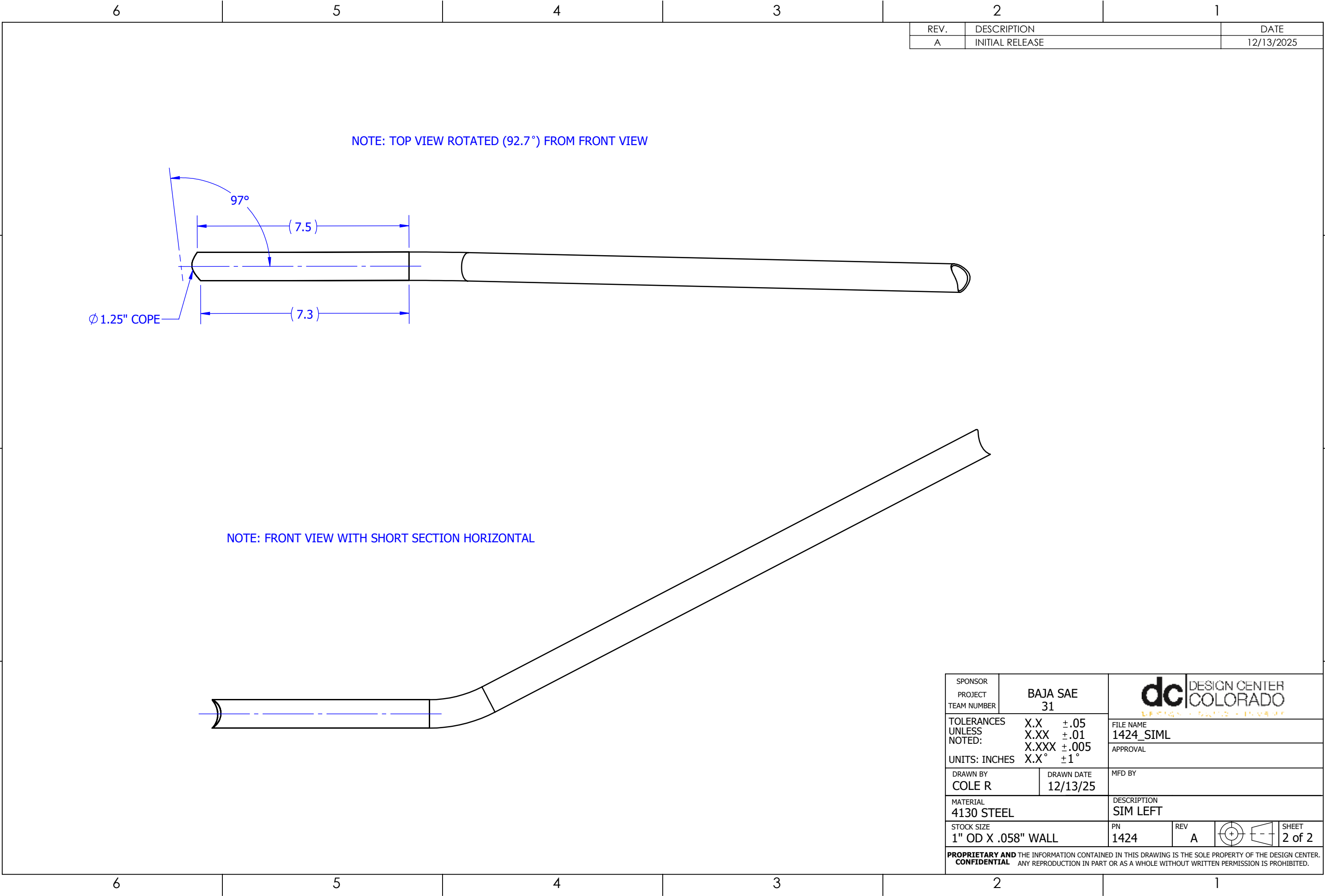


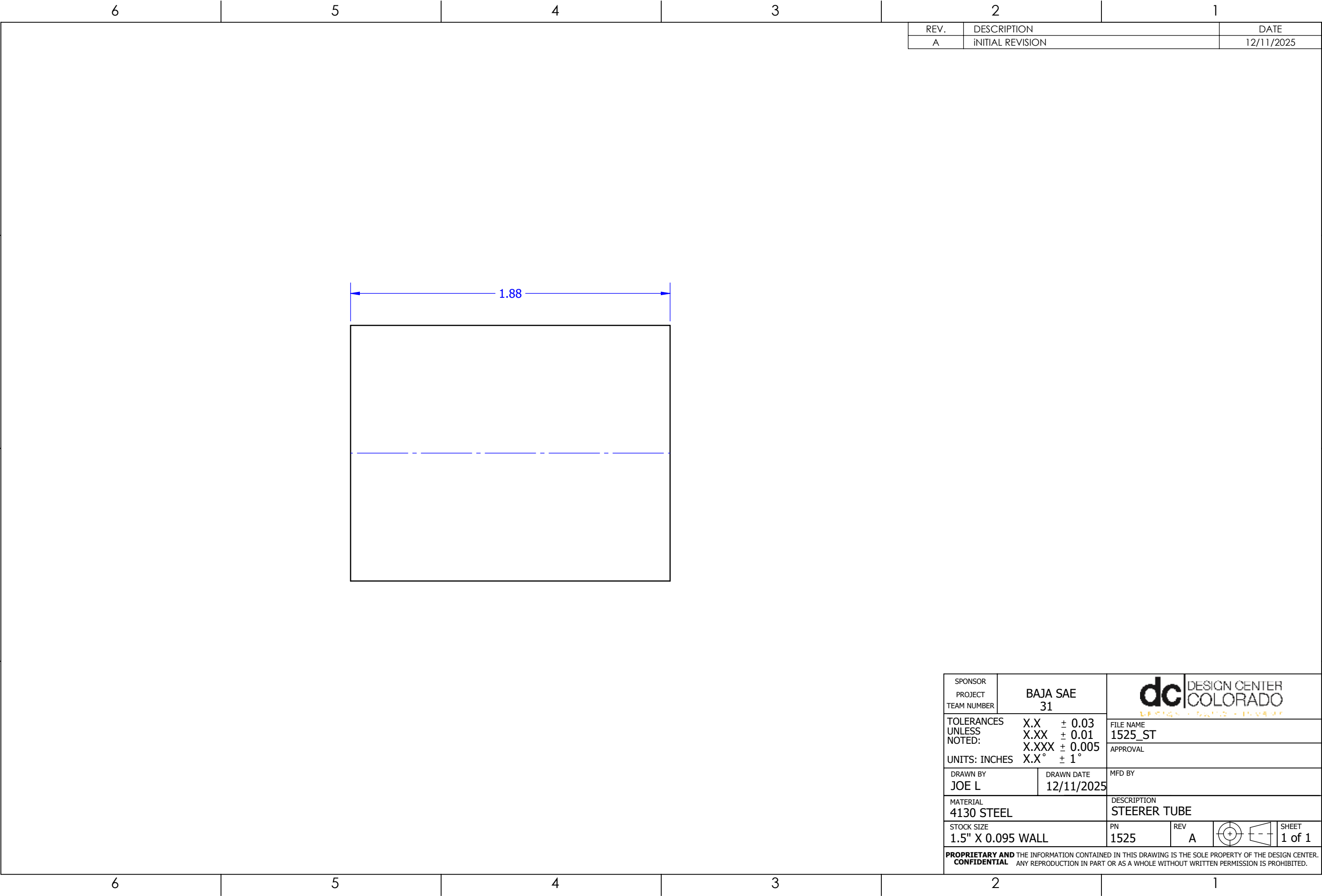


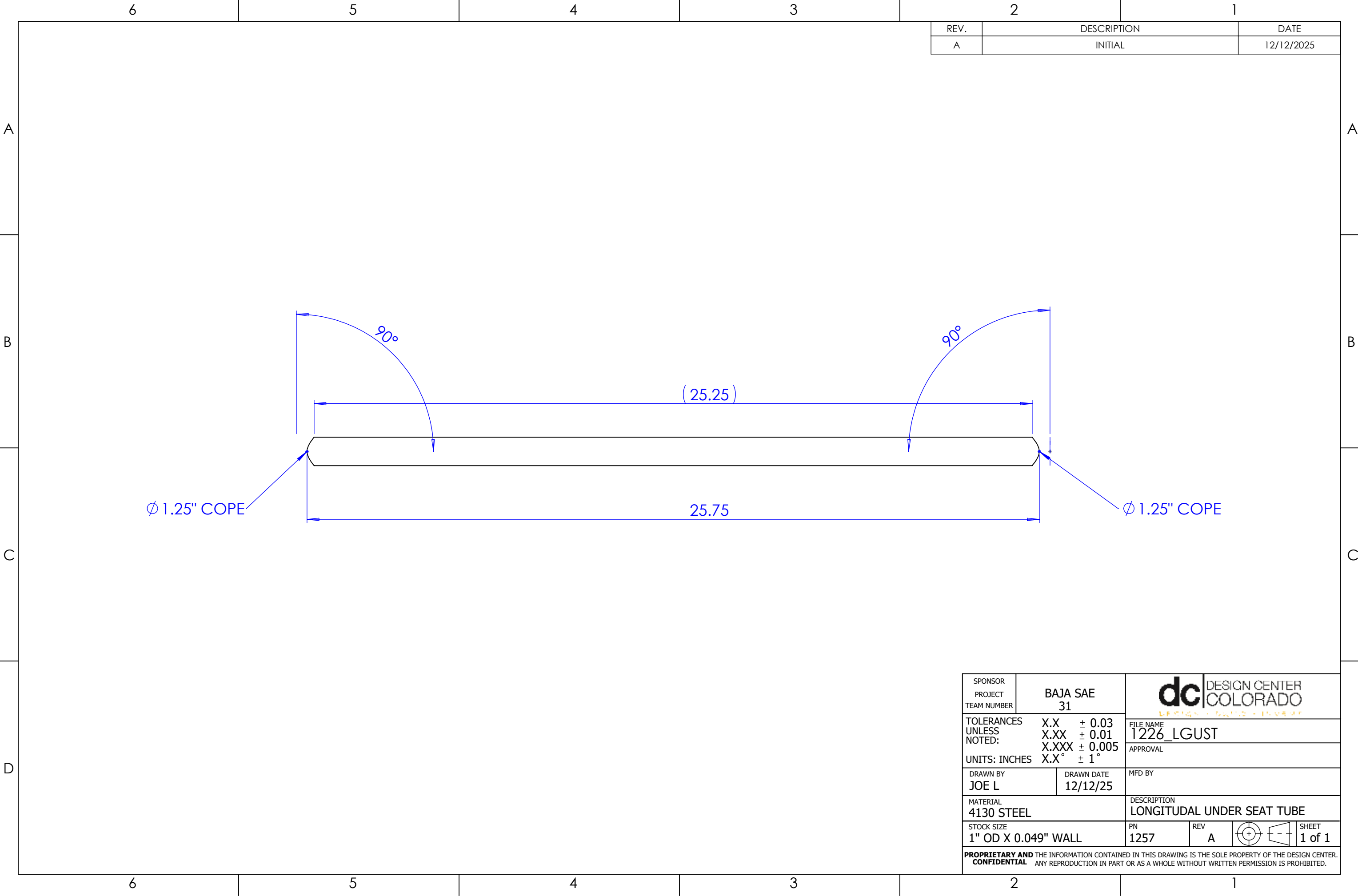


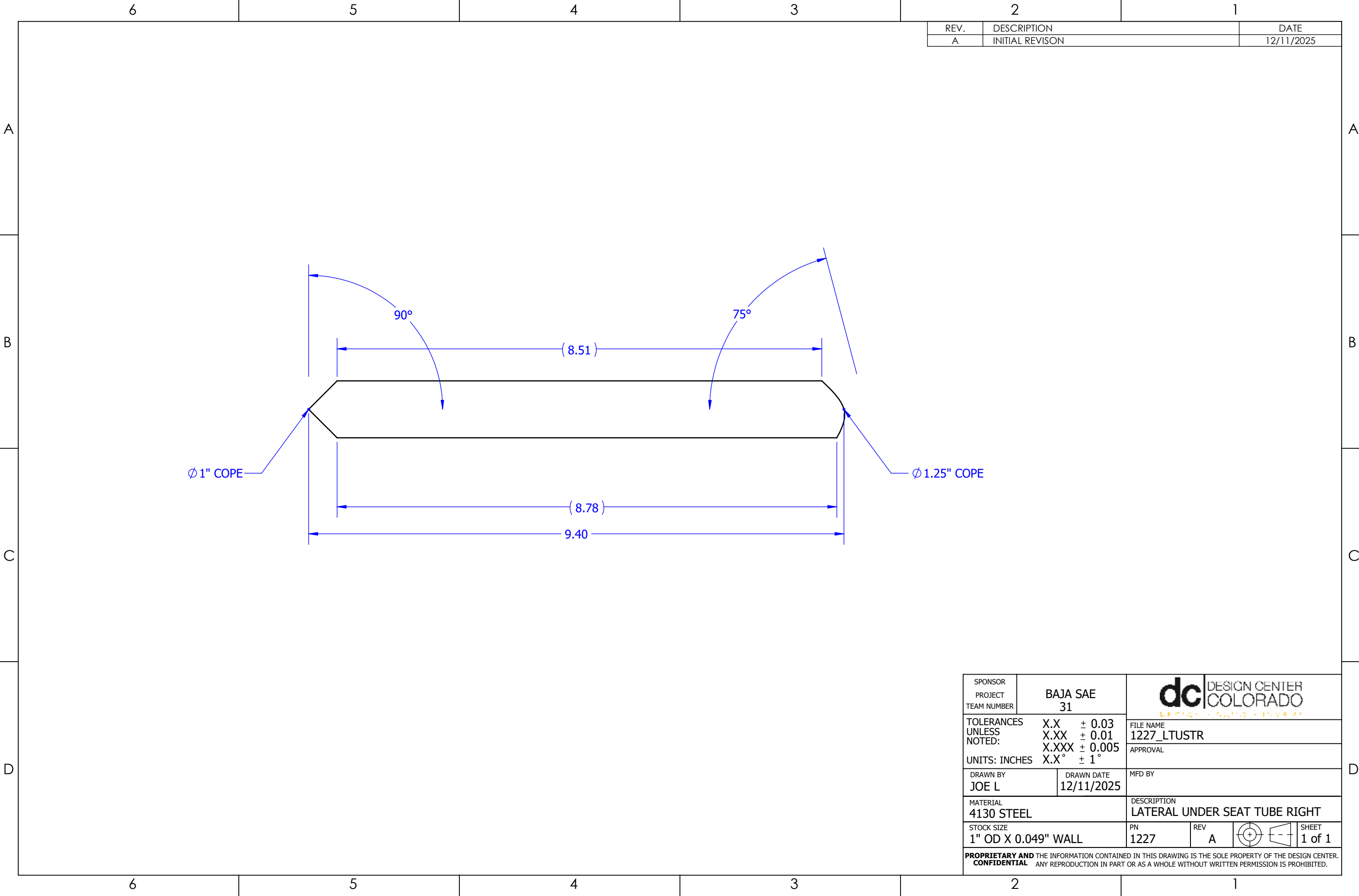






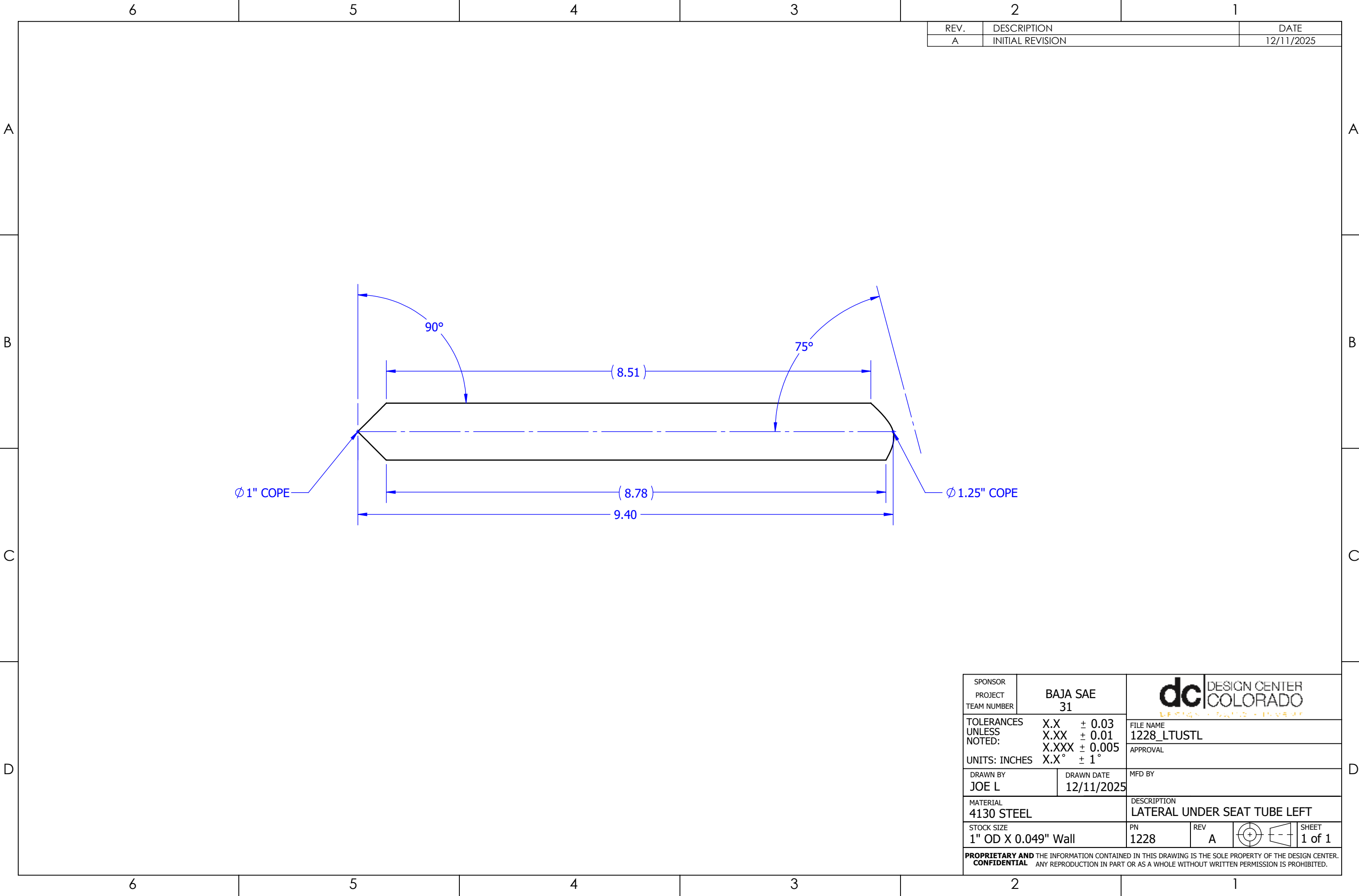






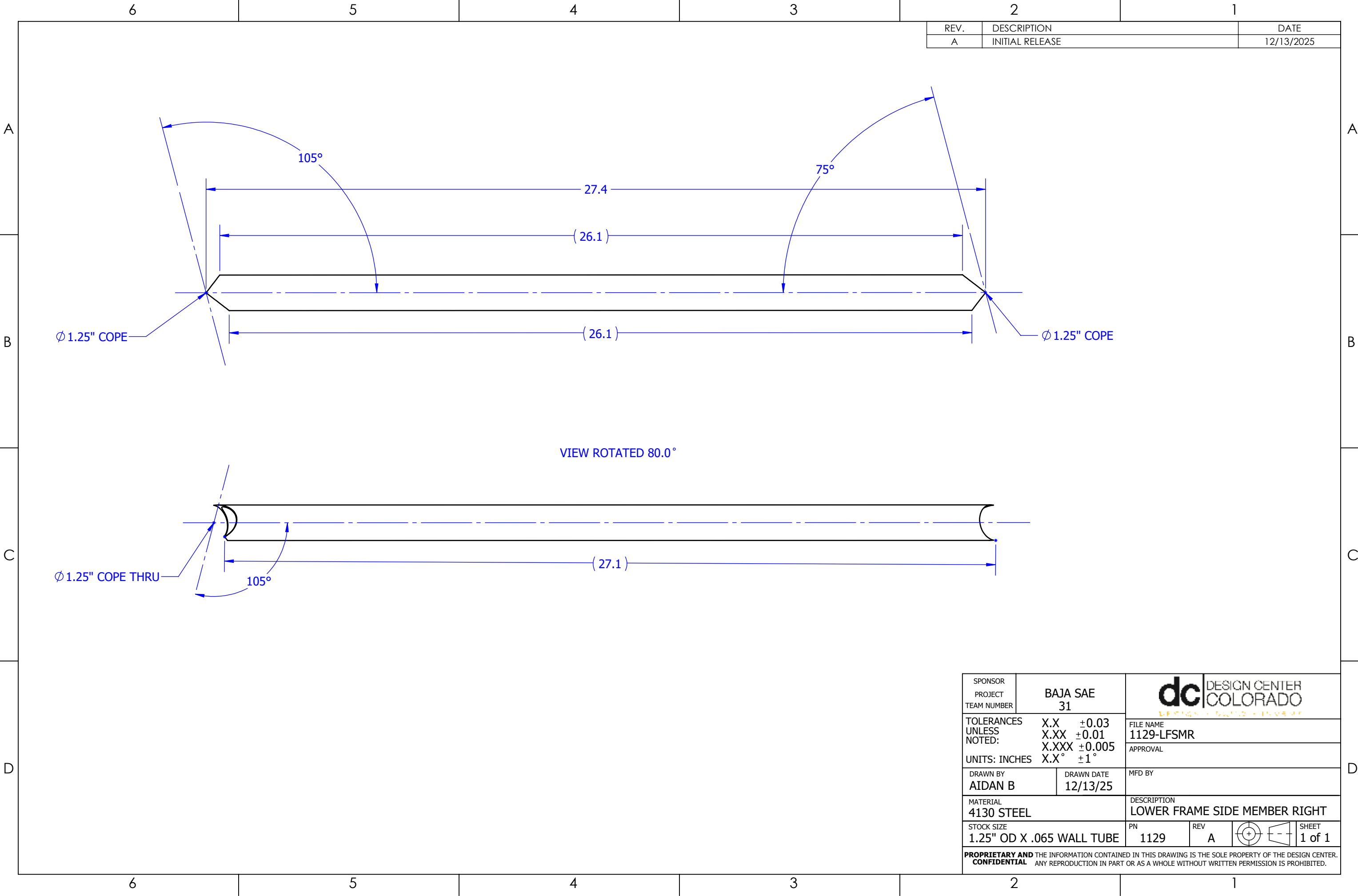
REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/11/2025

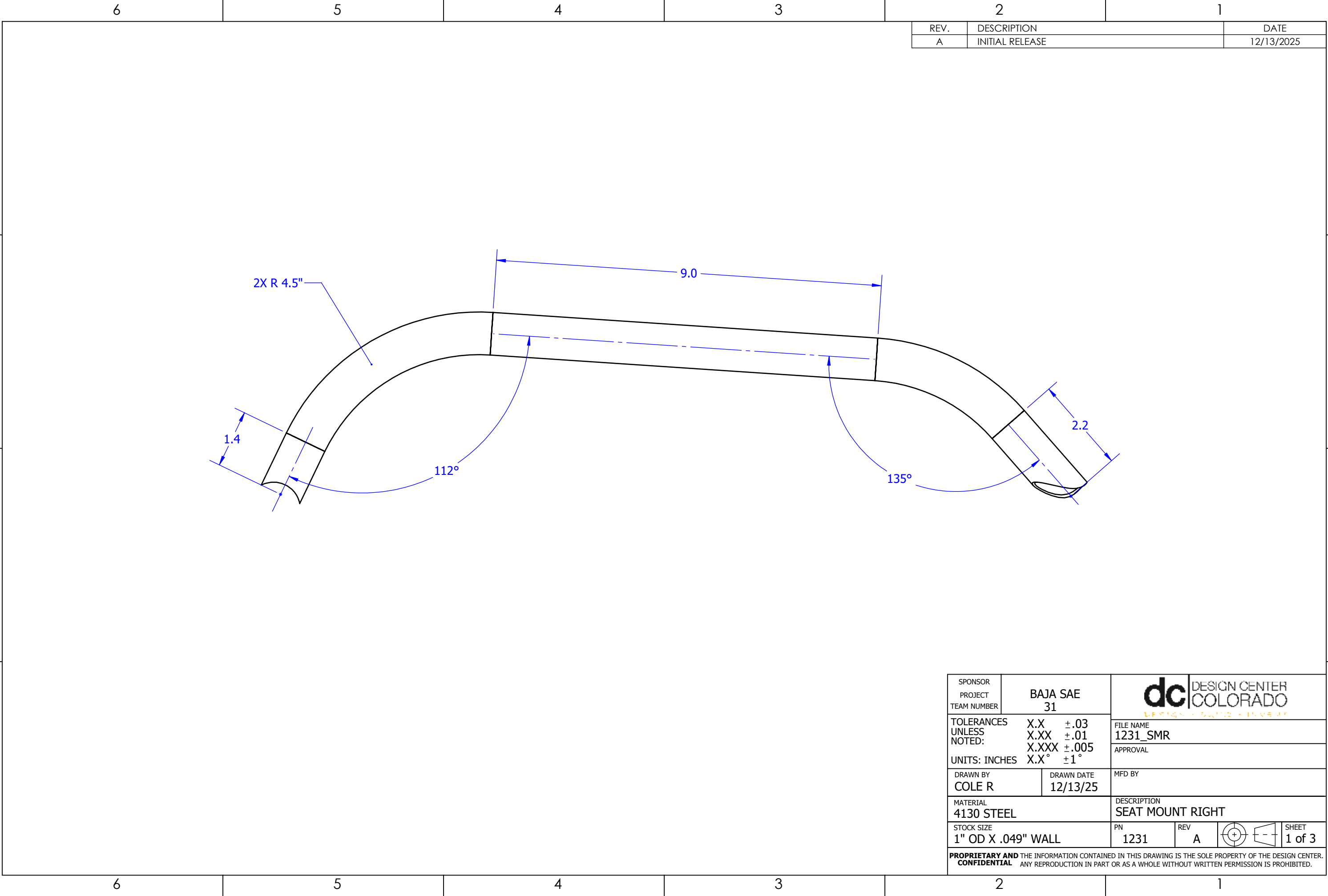
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:		X.X	± 0.03	FILE NAME	
		X.XX	± 0.01	1227_LTUSTR	
		X.XXX	± 0.005	APPROVAL	
UNITS: INCHES		X.X°	± 1°		
DRAWN BY JOE L		DRAWN DATE 12/11/2025		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION LATERAL UNDER SEAT TUBE RIGHT	
STOCK SIZE 1" OD X 0.049" WALL		PN 1227	REV A		SHEET 1 of 1
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REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/11/2025

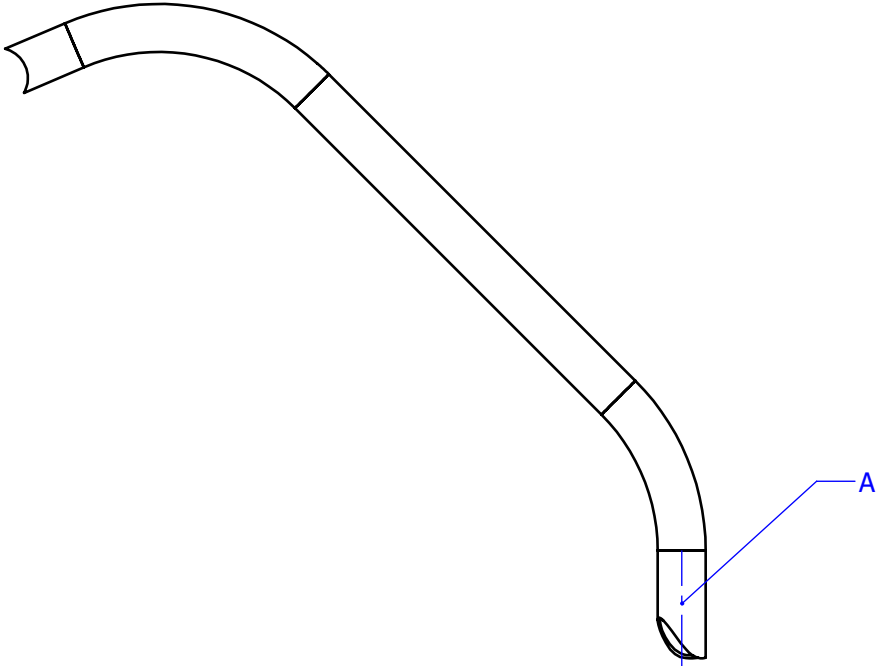
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO LEARN • THINK • INNOVATE	
TOLERANCES UNLESS NOTED:		X.X ± 0.03		FILE NAME	
		X.XX ± 0.01		1228_LTUSTL	
		X.XXX ± 0.005		APPROVAL	
UNITS: INCHES		X.X° ± 1°			
DRAWN BY JOE L		DRAWN DATE 12/11/2025		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION LATERAL UNDER SEAT TUBE LEFT	
STOCK SIZE 1" OD X 0.049" Wall		PN 1228		REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



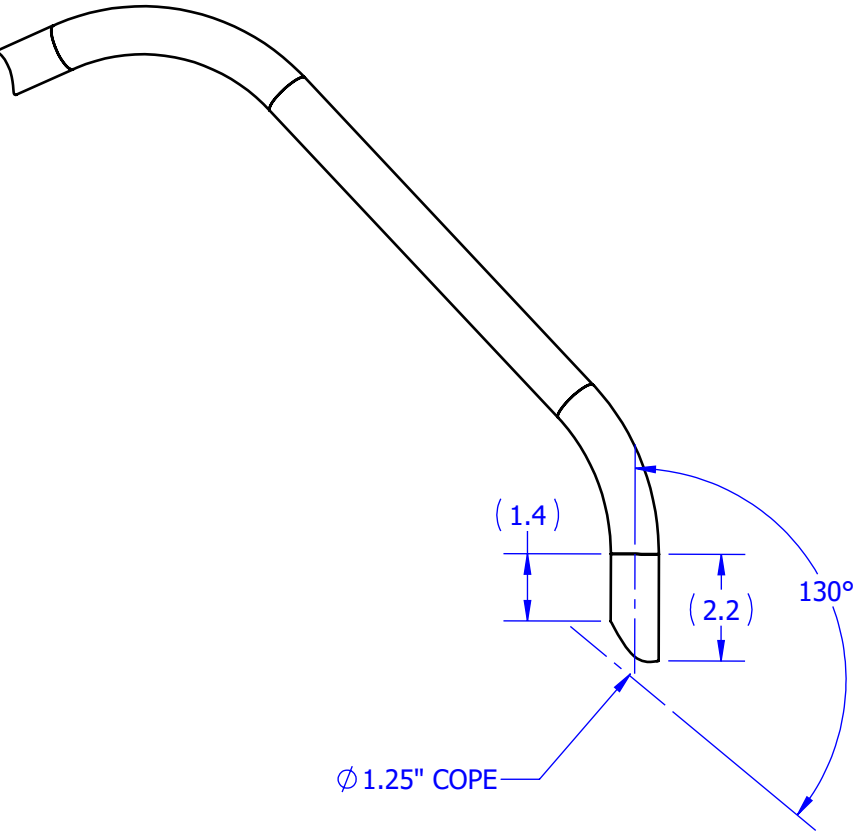


REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

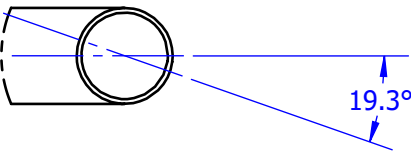
NOTE: FRONT VIEW WITH TUBE SECTION A VERTICAL



NOTE: ROTATE (19.3°) CCW FROM BOTTOM VIEW OF TUBE SECTION A

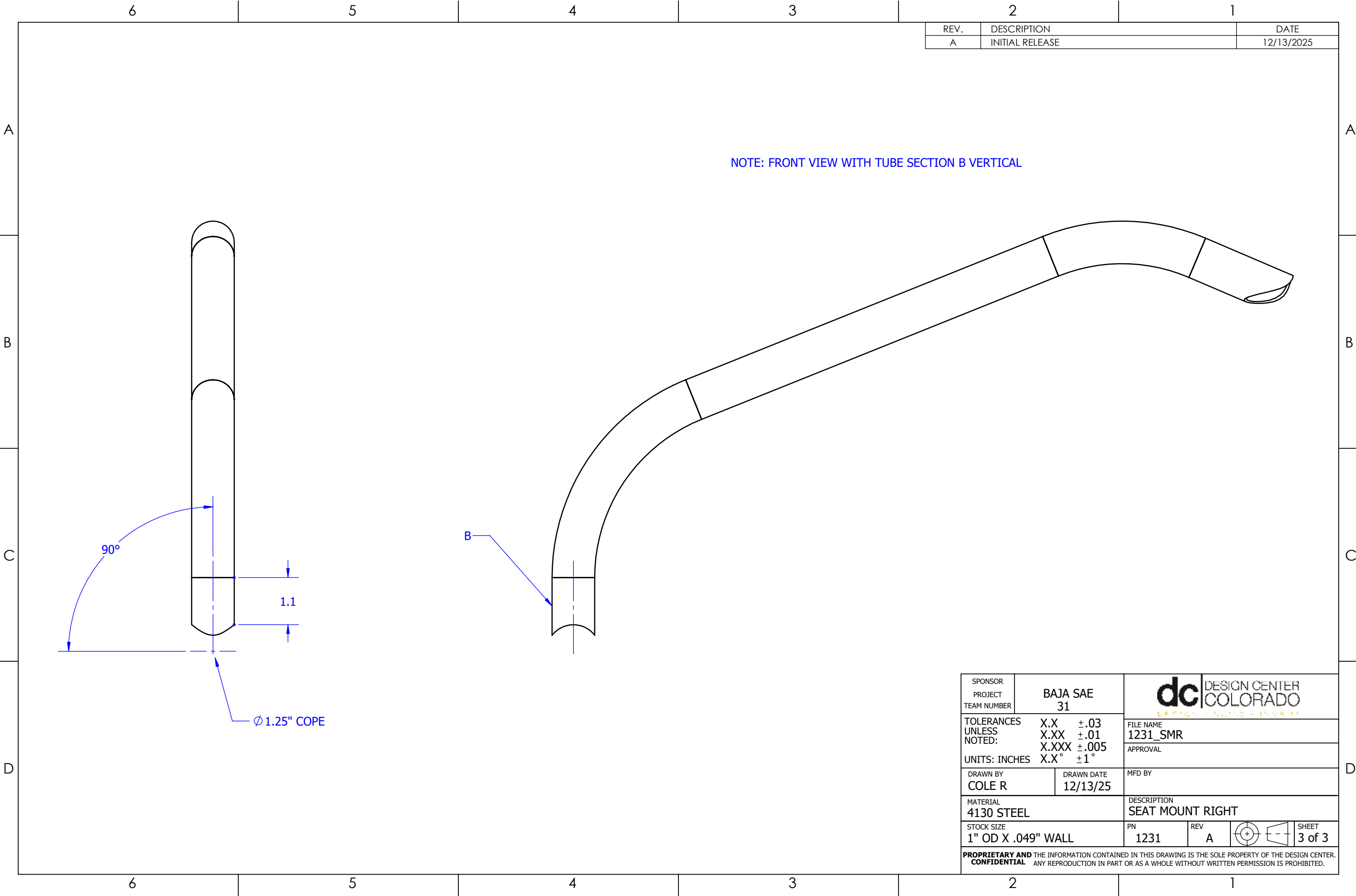


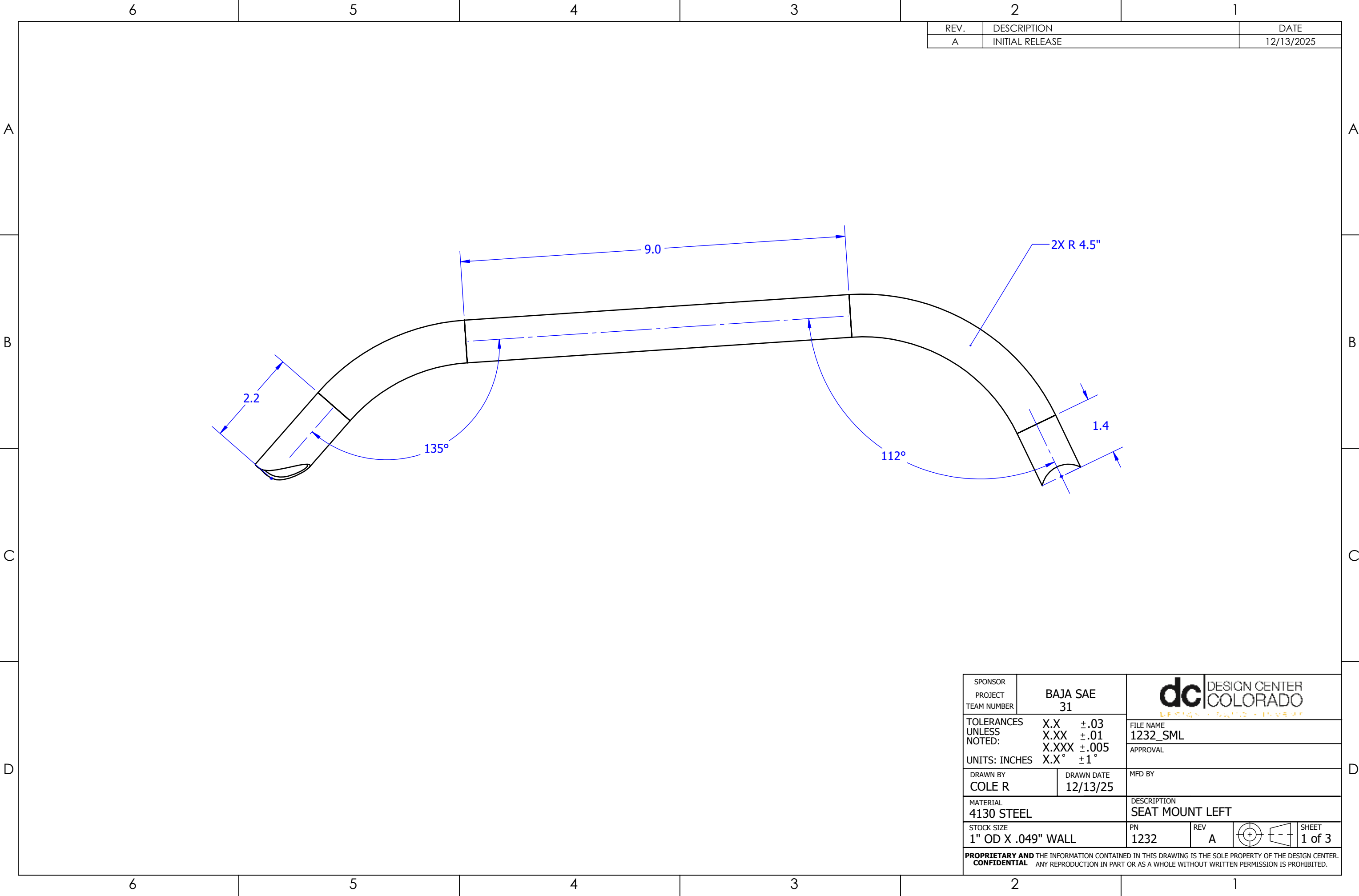
COPE AXIS FOR REFERENCE



DETAIL A
SCALE 1 : 2

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31				
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005	FILE NAME 1231_SMR		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY COLE R		DRAWN DATE 12/13/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION SEAT MOUNT RIGHT		
STOCK SIZE 1" OD X .049" WALL			PN 1231	REV A	  SHEET 2 of 3
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE RACE	
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005		FILE NAME 1232_SML	
				APPROVAL	
UNITS: INCHES		X.X° ±1°			
DRAWN BY COLE R		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION SEAT MOUNT LEFT	
STOCK SIZE 1" OD X .049" WALL		PN 1232	REV A		SHEET 1 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6

5

4

3

2

1

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

A

NOTE: ROTATE (19.3°) CW FROM BOTTOM VIEW OF TUBE SECTION A

NOTE: FRONT VIEW WITH TUBE SECTION A VERTICAL

A

B

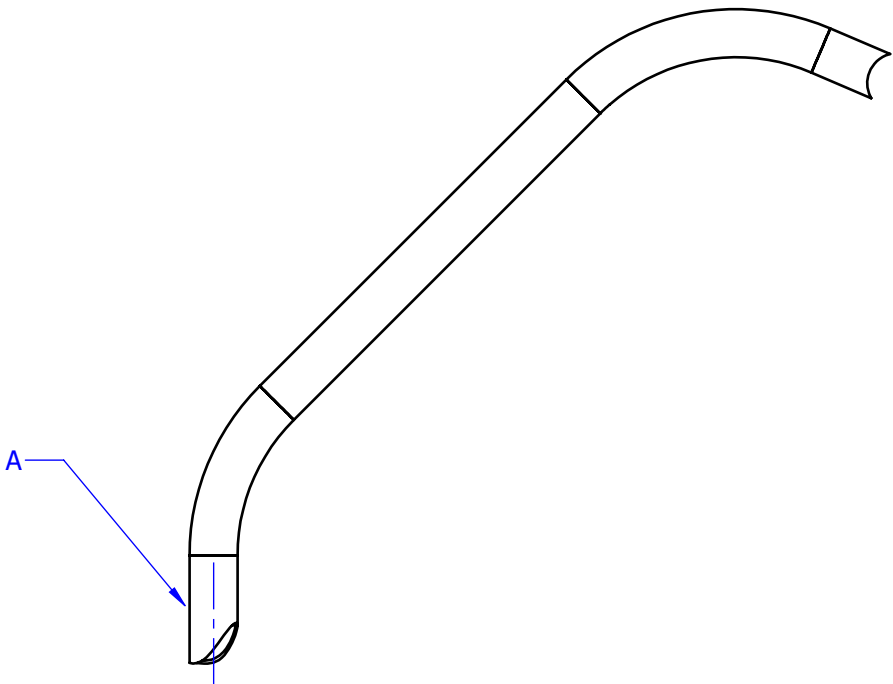
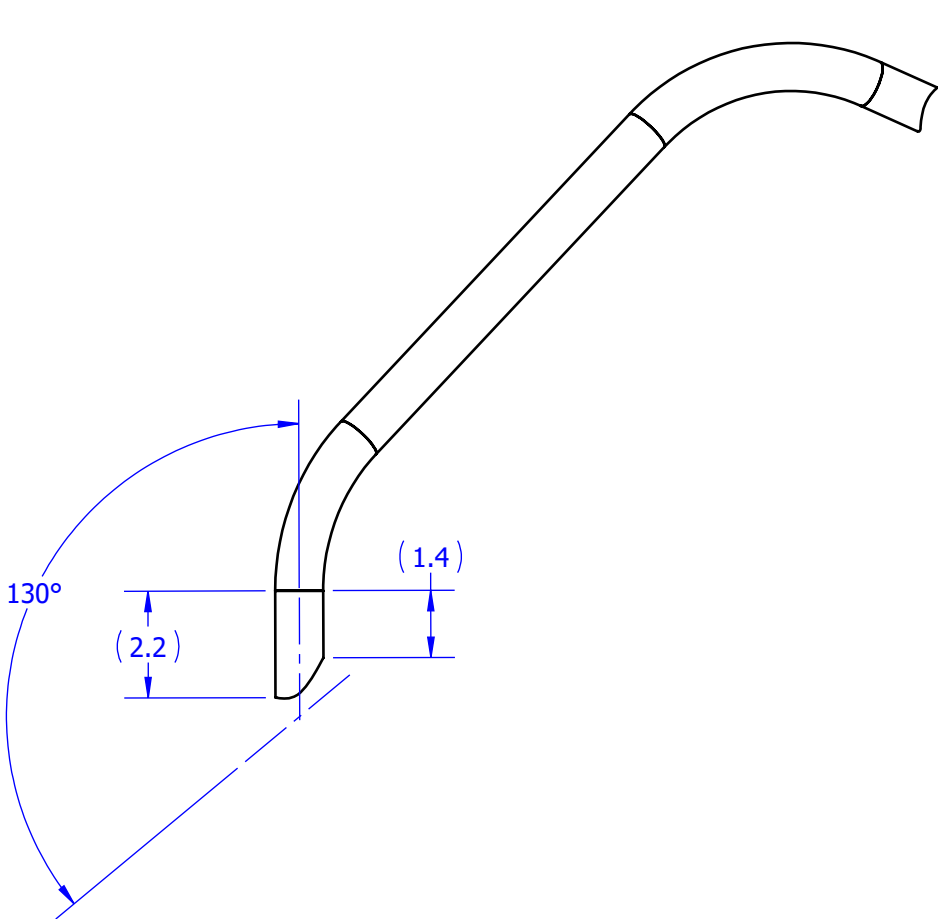
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C

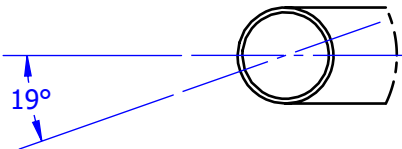
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D

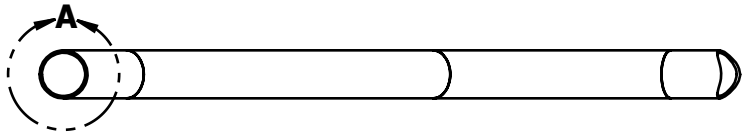
D



COPE AXIS FOR REFERENCE



DETAIL A
SCALE 1 : 2



SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT			
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005	FILE NAME 1232_SML		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY COLE R		DRAWN DATE 12/13/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION SEAT MOUNT LEFT		
STOCK SIZE 1" OD X .049" WALL		PN 1232	REV A		SHEET 2 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6

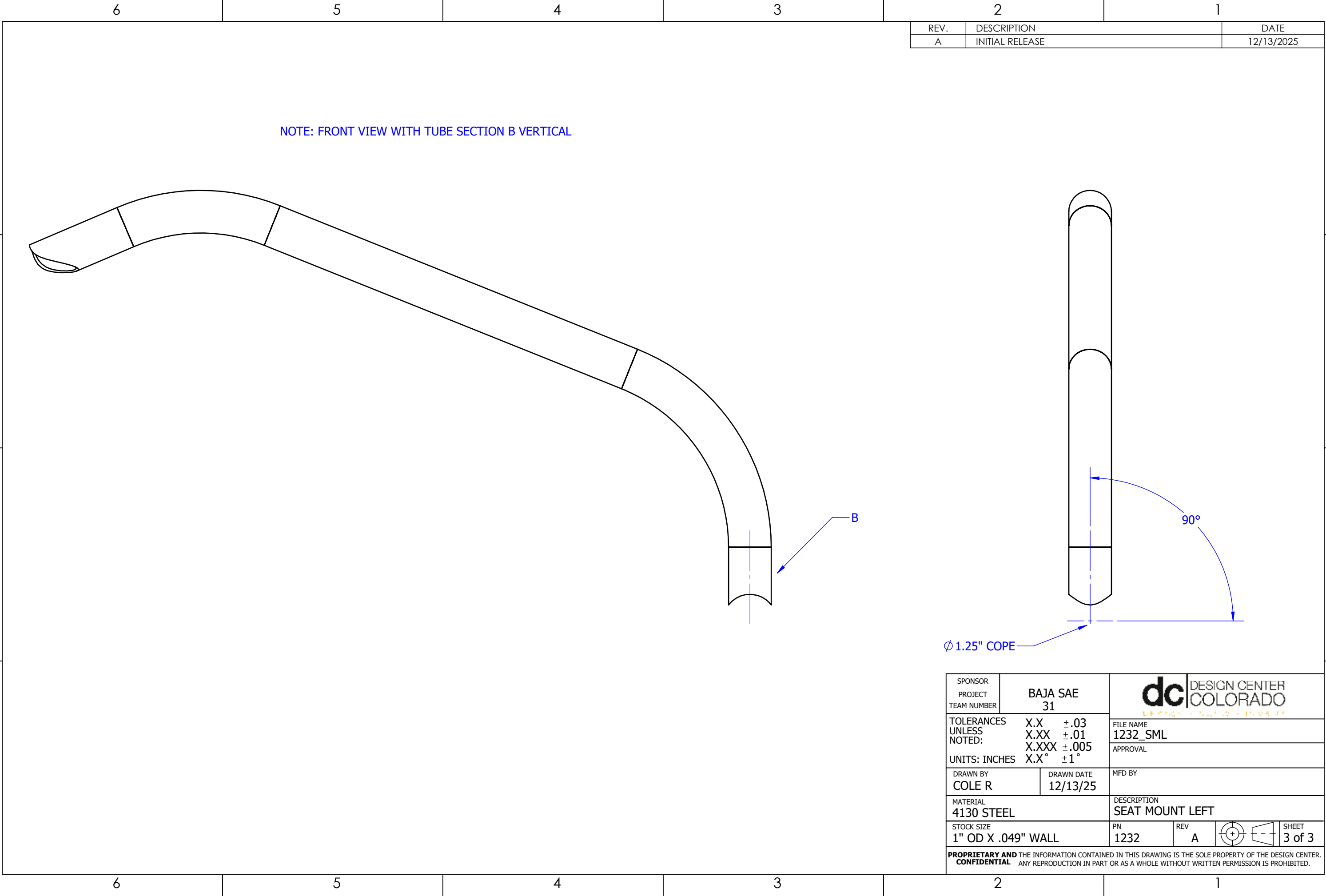
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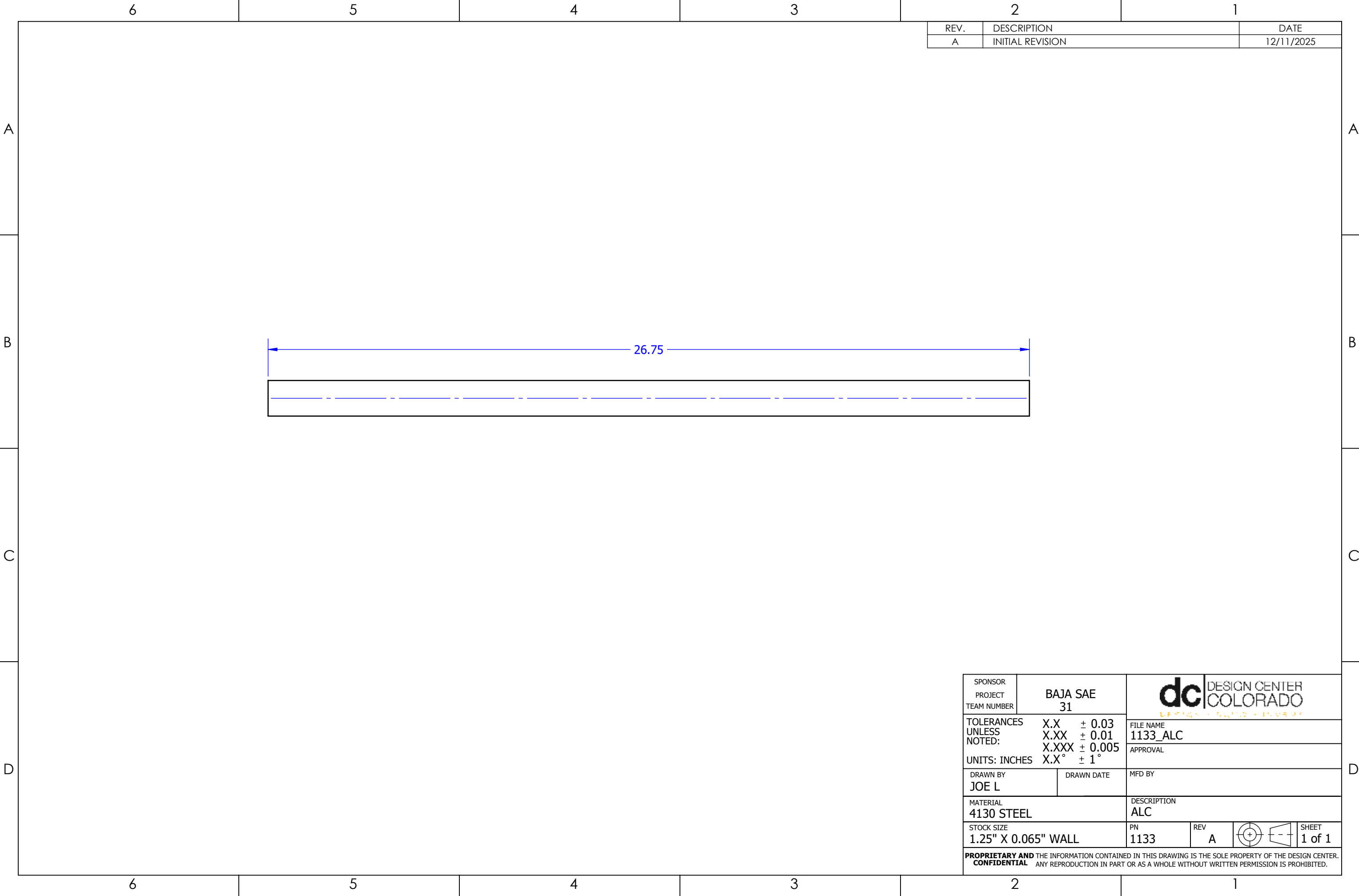
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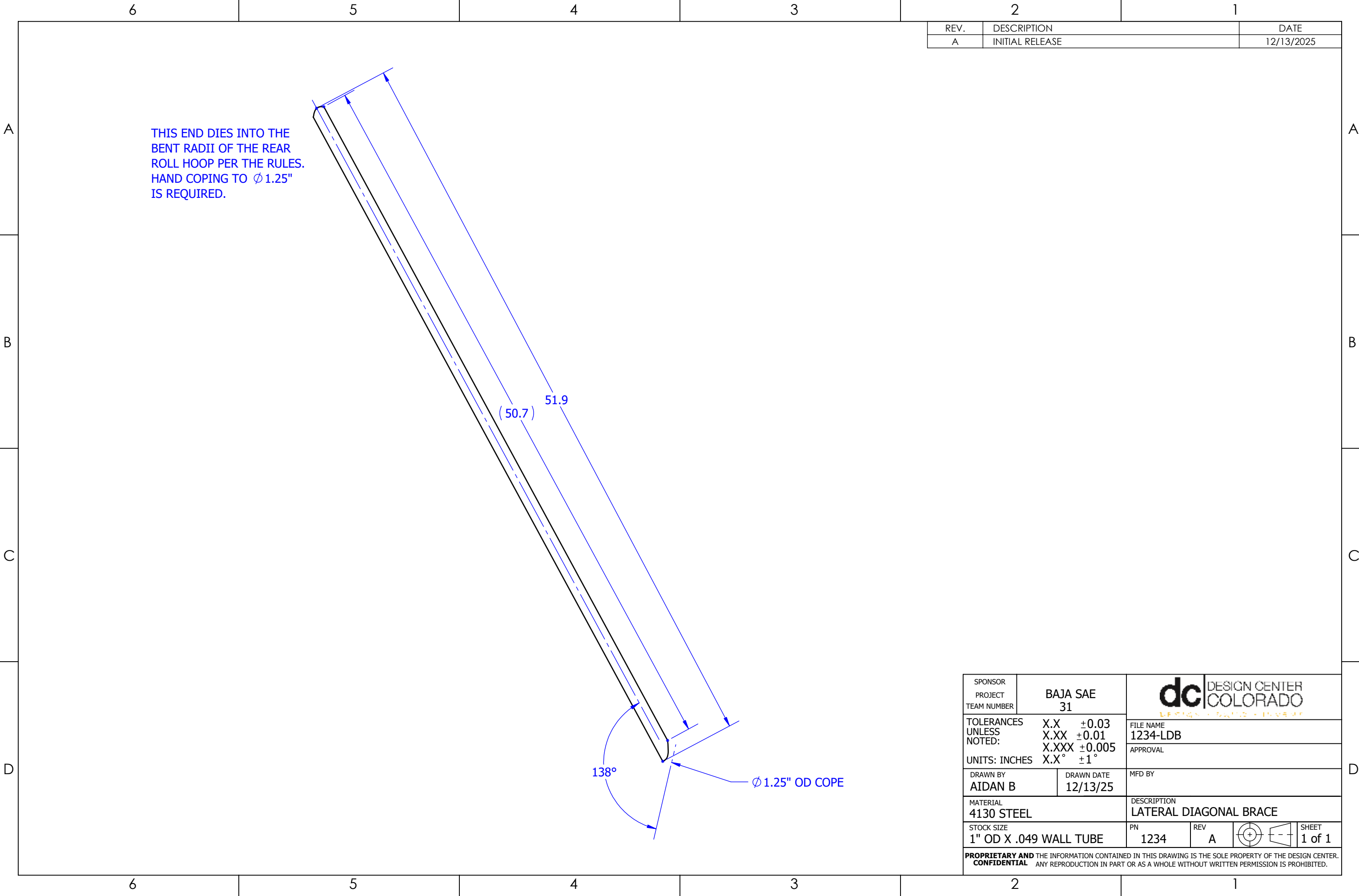
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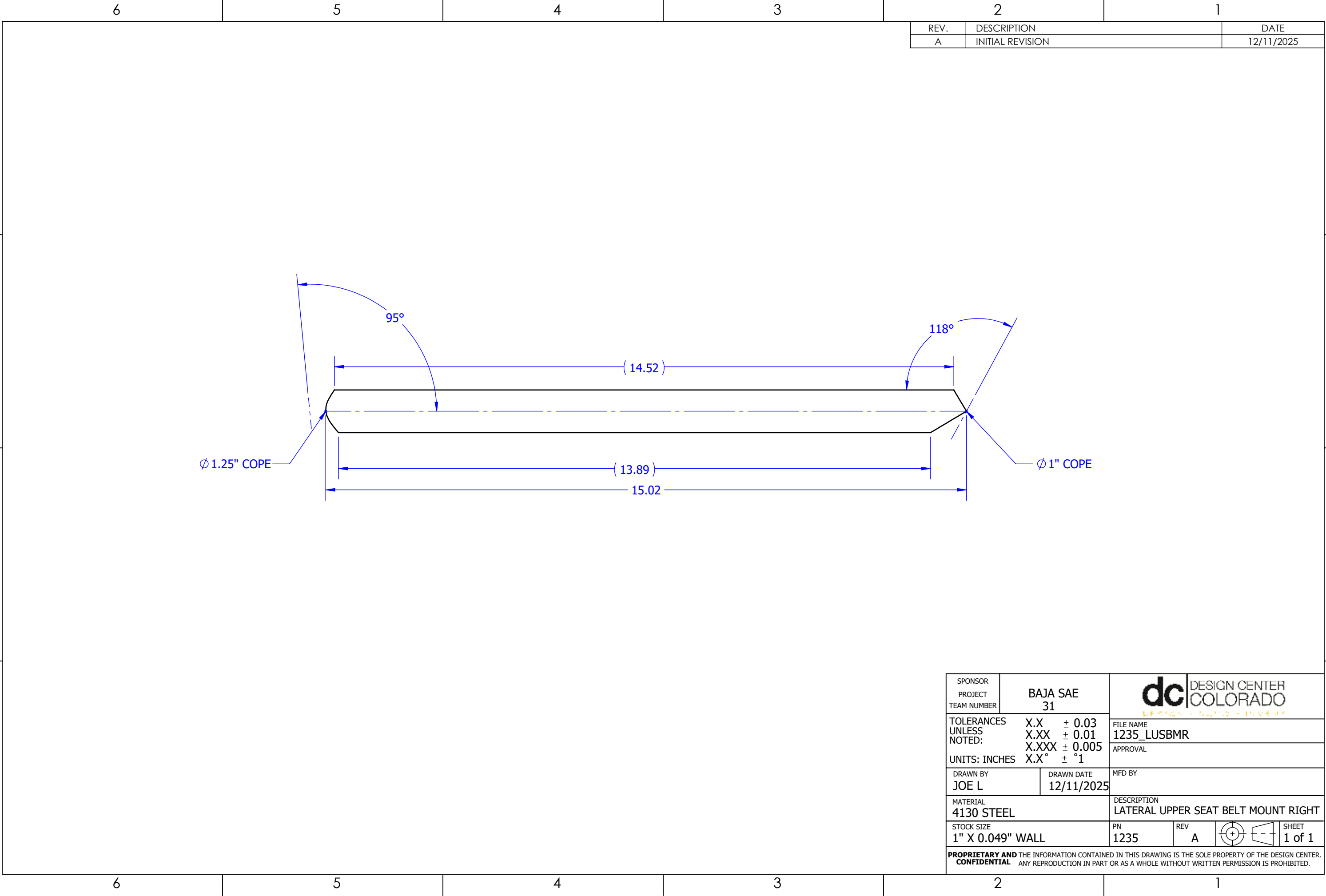
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1



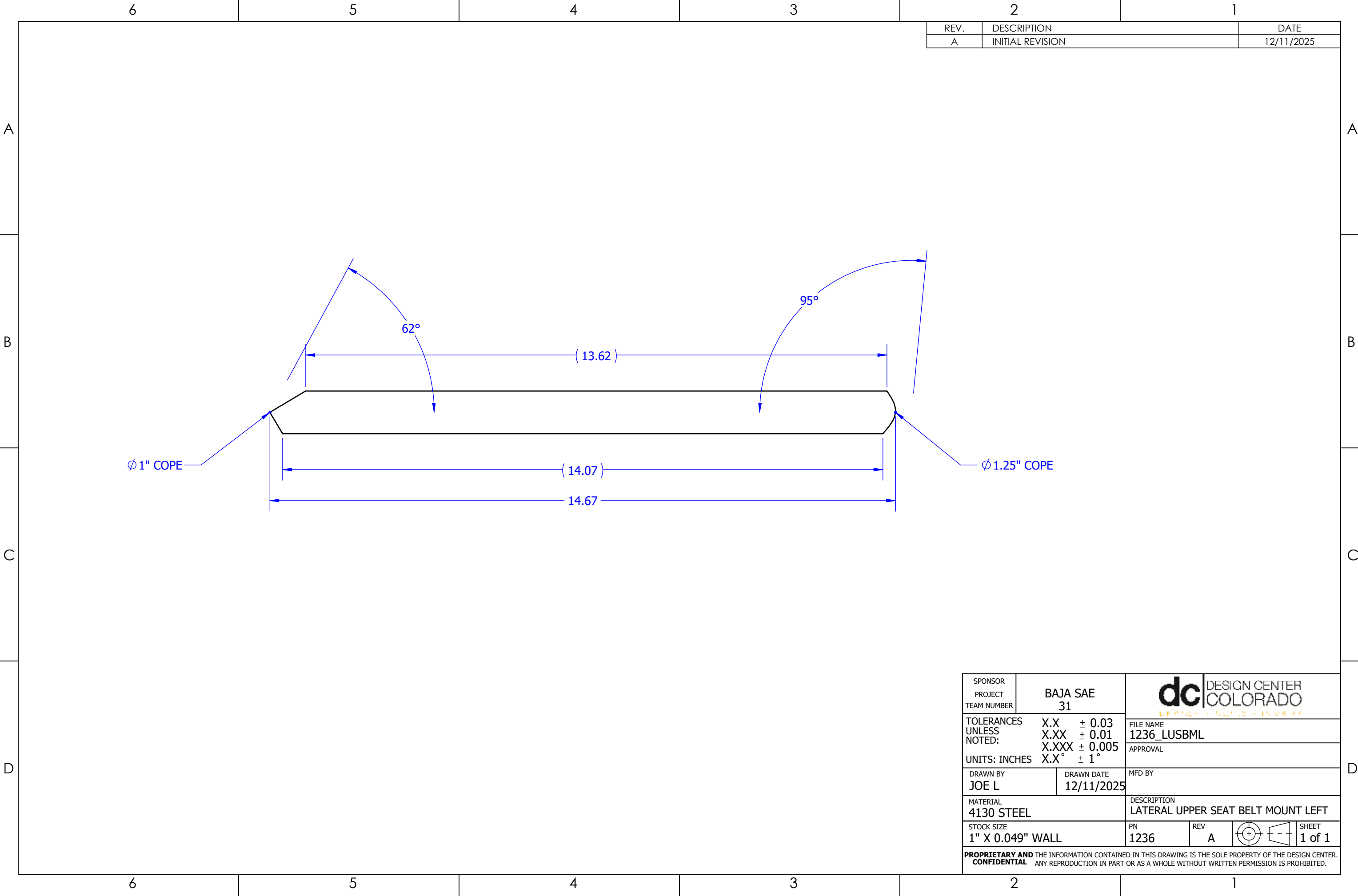






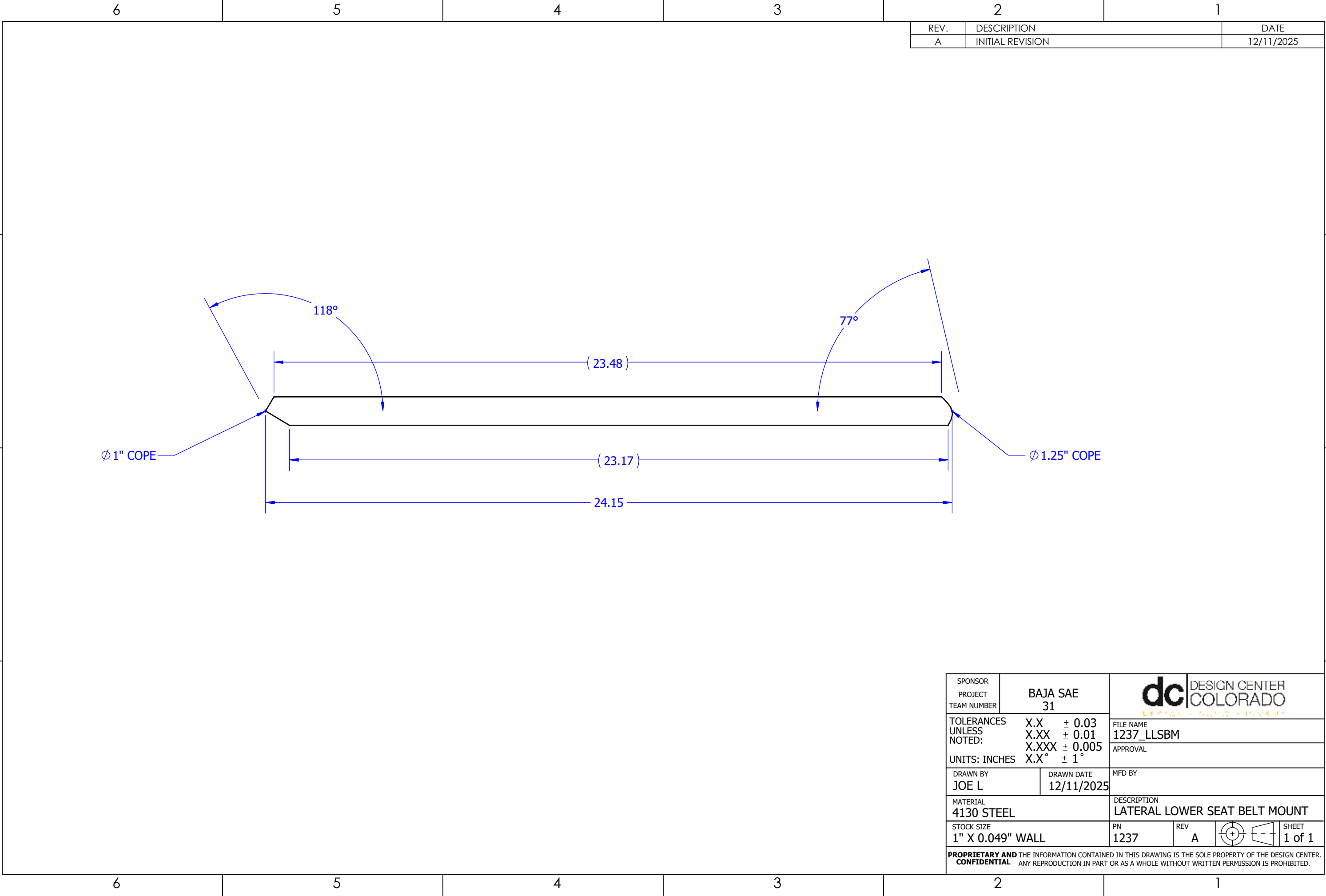
REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/11/2025

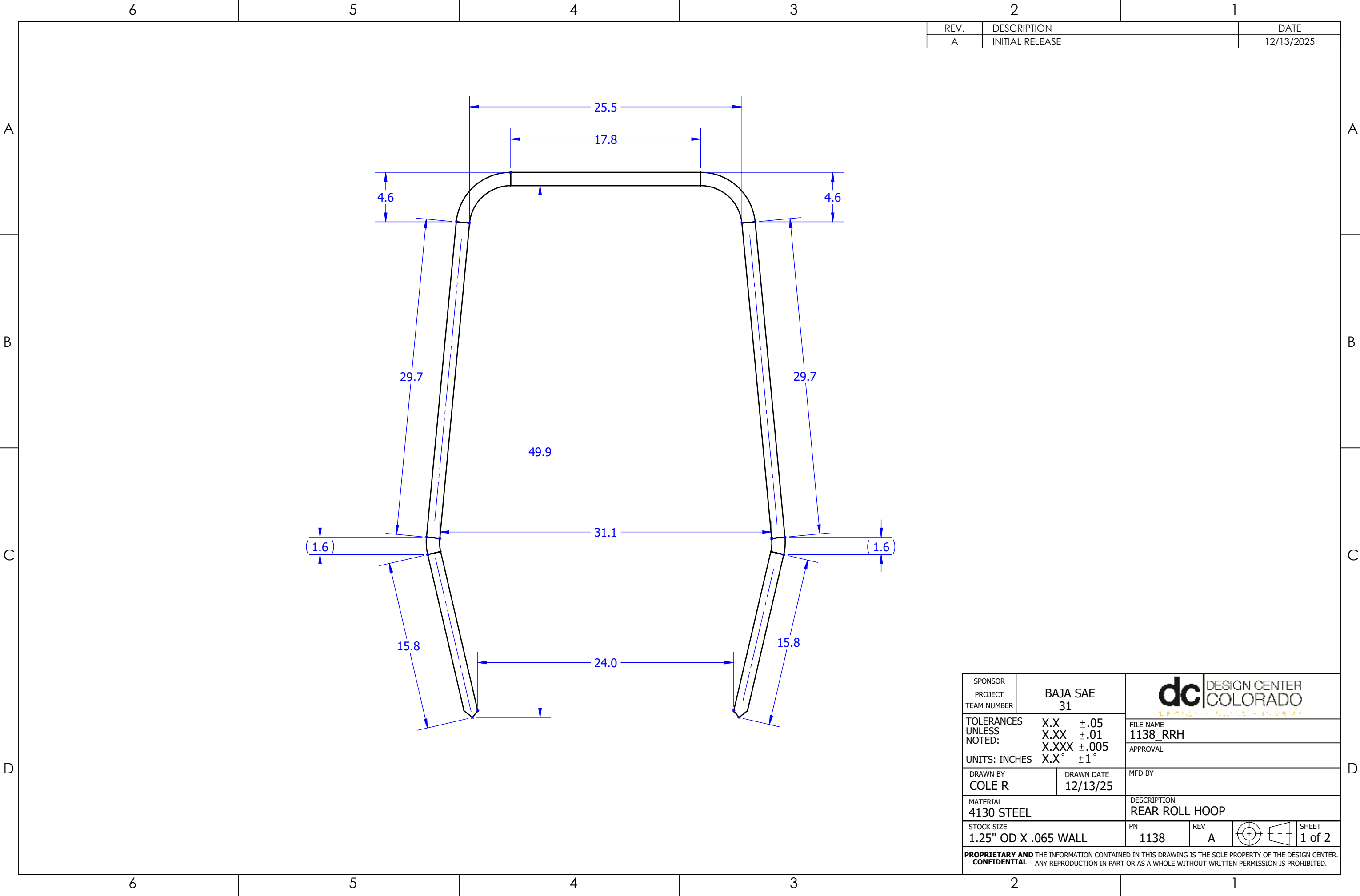
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X	± 0.03	FILE NAME 1235_LUSBMR	
		X.XX	± 0.01	APPROVAL	
		X.XXX	± 0.005		
		X.X°	± °1		
DRAWN BY JOE L		DRAWN DATE 12/11/2025		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION LATERAL UPPER SEAT BELT MOUNT RIGHT	
STOCK SIZE 1" X 0.049" WALL				PN 1235	REV A
					SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/11/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO LESTER • SWAN • HAYES	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± 1°		FILE NAME 1236_LUSBML	
				APPROVAL	
DRAWN BY JOE L		DRAWN DATE 12/11/2025		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION LATERAL UPPER SEAT BELT MOUNT LEFT	
STOCK SIZE 1" X 0.049" WALL				PN 1236	REV A
					SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

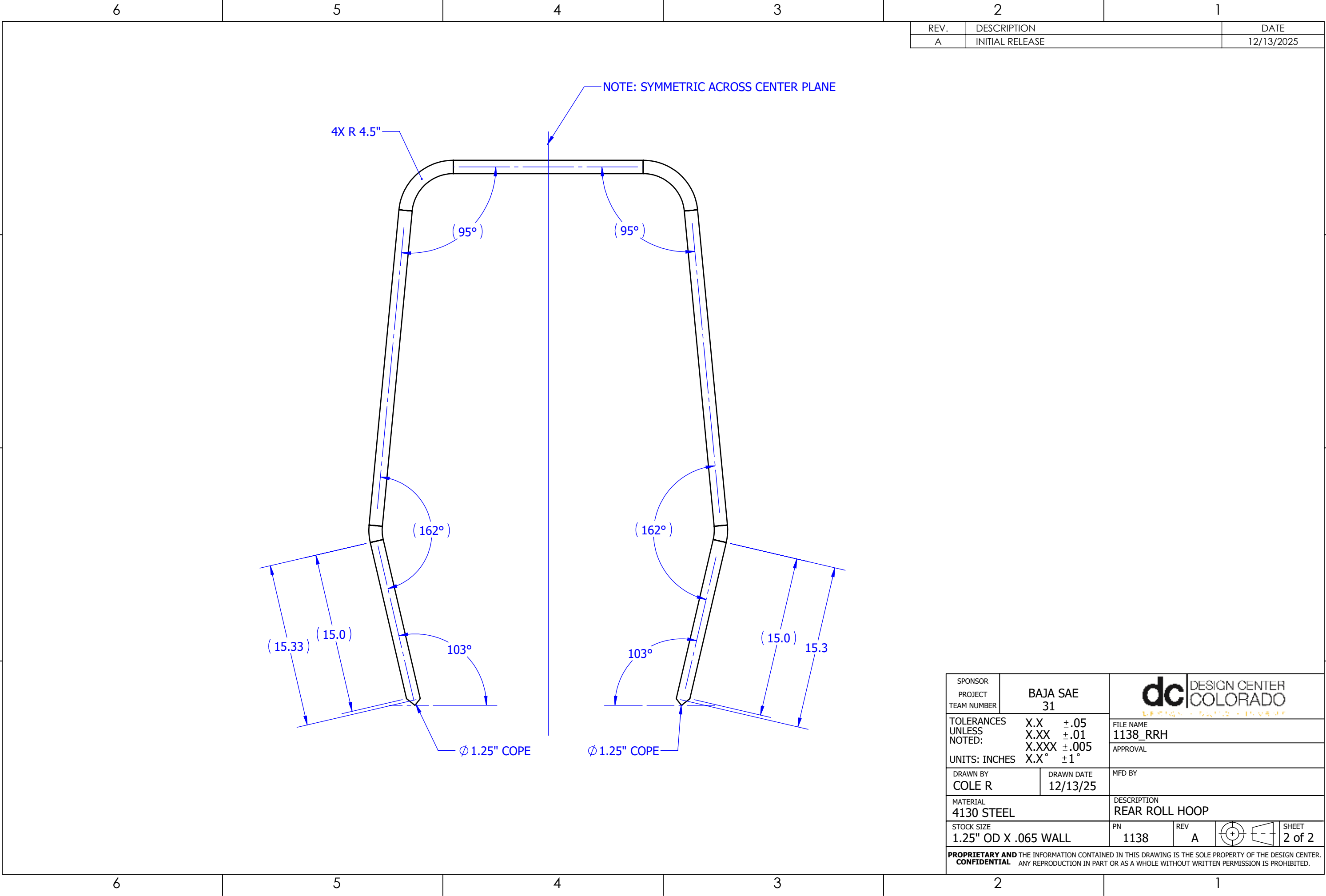


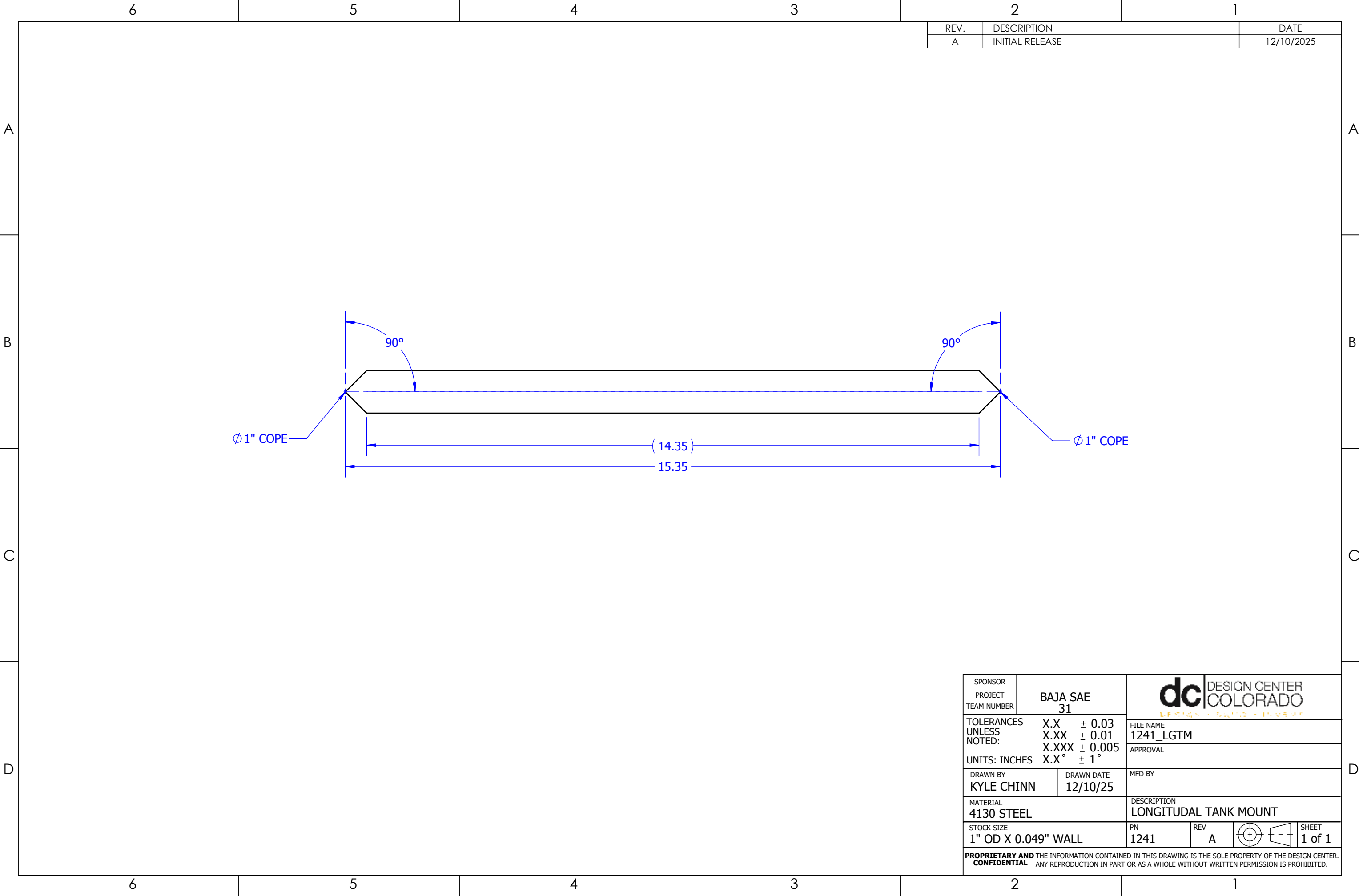


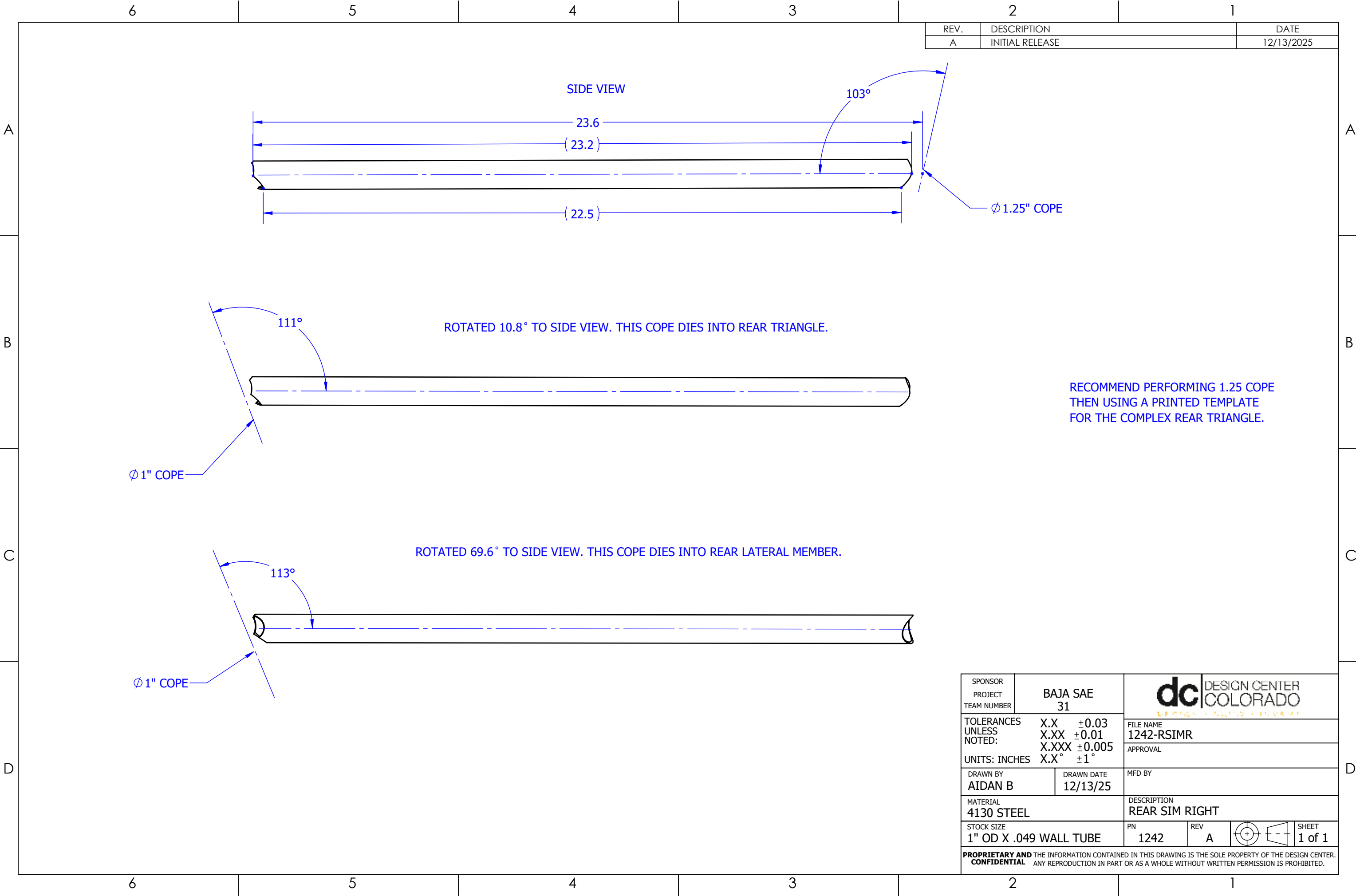
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR		dc DESIGN CENTER COLORADO DESIGN • ANALYSIS • INNOVATION			
PROJECT					
TEAM NUMBER					
BAJA SAE		FILE NAME			
31		1138_RRH			
TOLERANCES		APPROVAL			
UNLESS					
NOTED:					
UNITS: INCHES					
X.X ±.05					
X.XX ±.01					
X.XXX ±.005					
X.X° ±1°					
DRAWN BY		MFD BY			
COLE R					
DRAWN DATE					
12/13/25					
MATERIAL		DESCRIPTION			
4130 STEEL		REAR ROLL HOOP			
STOCK SIZE		PN	REV		SHEET
1.25" OD X .065 WALL		1138	A		1 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

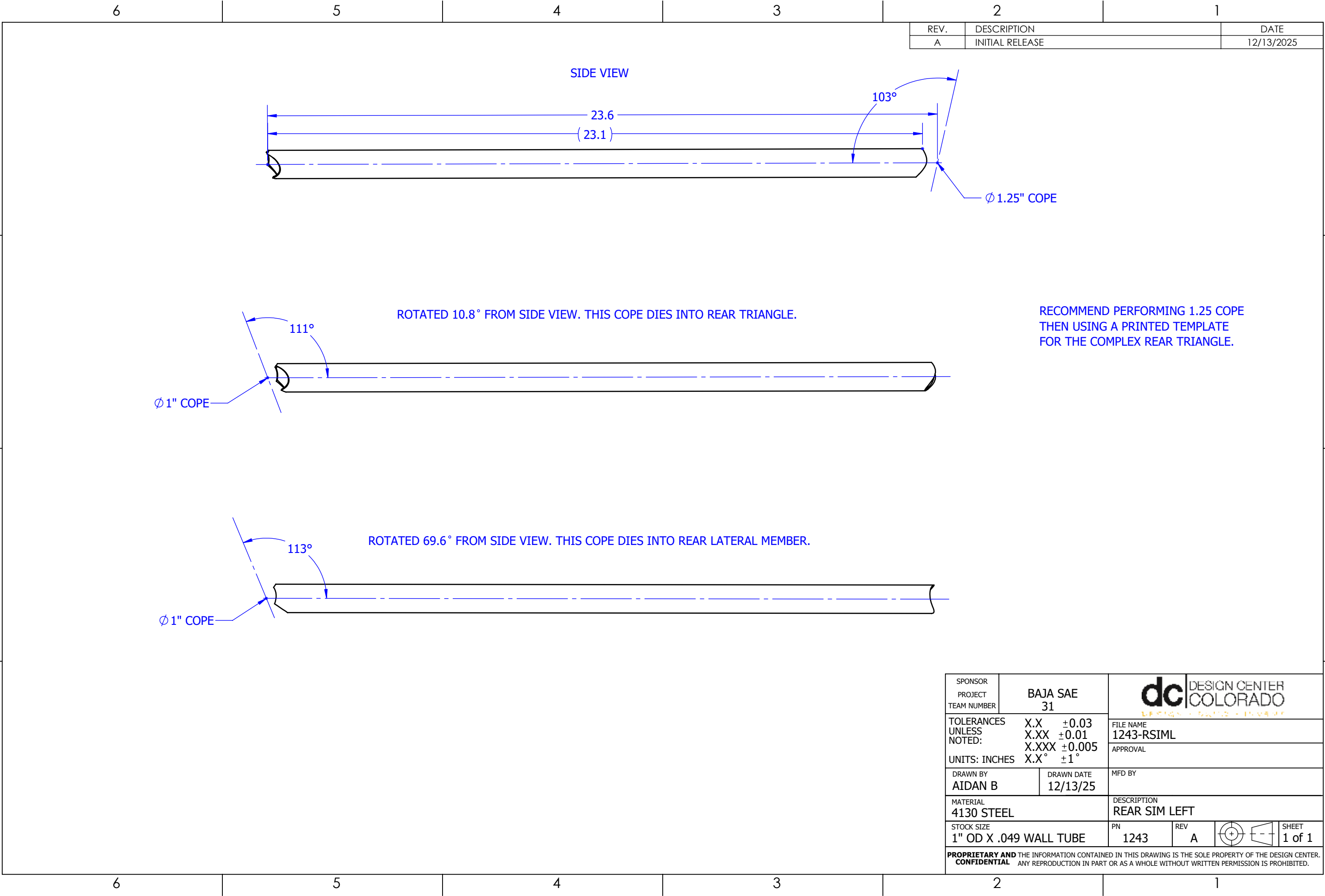
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.

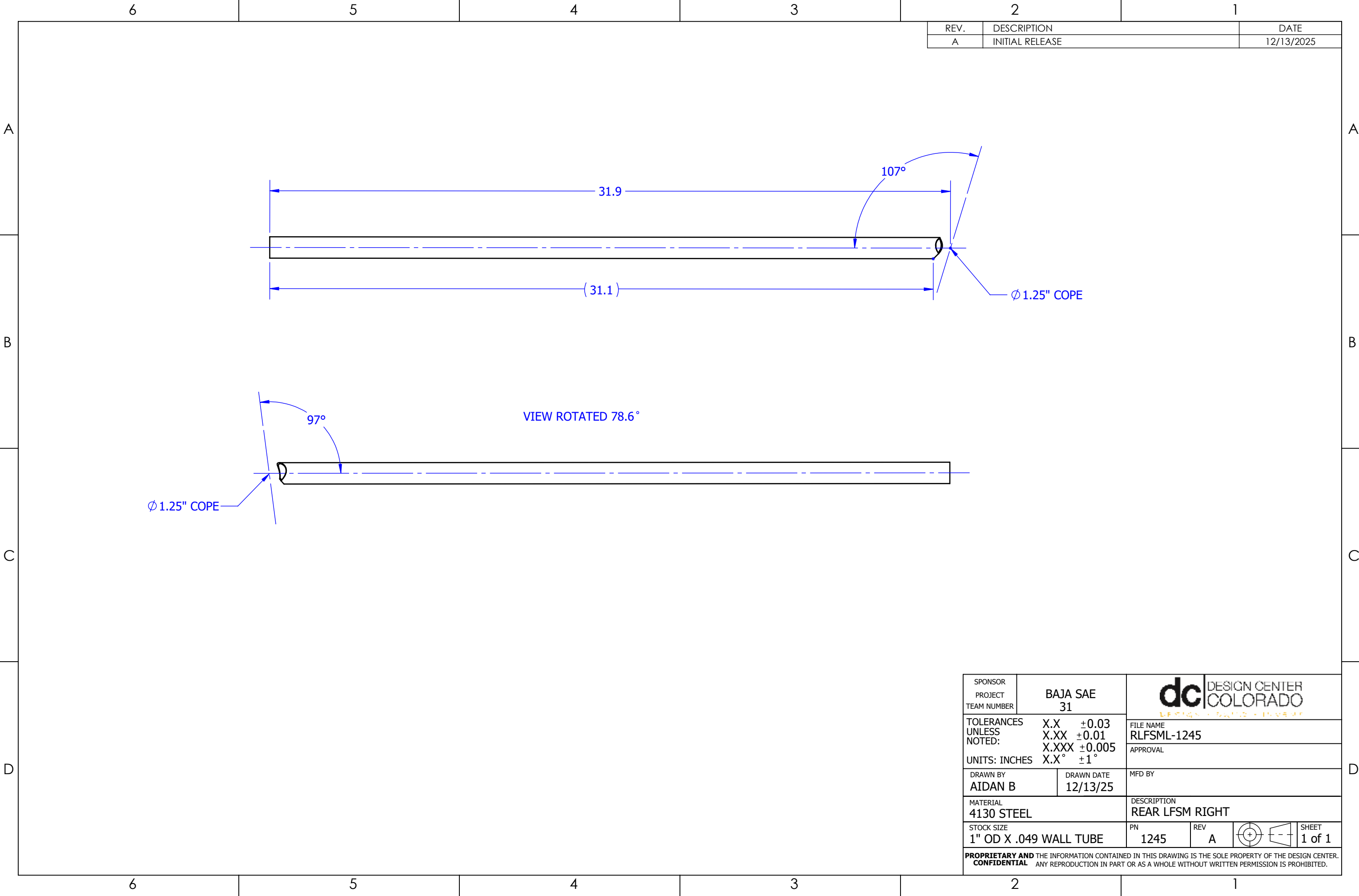


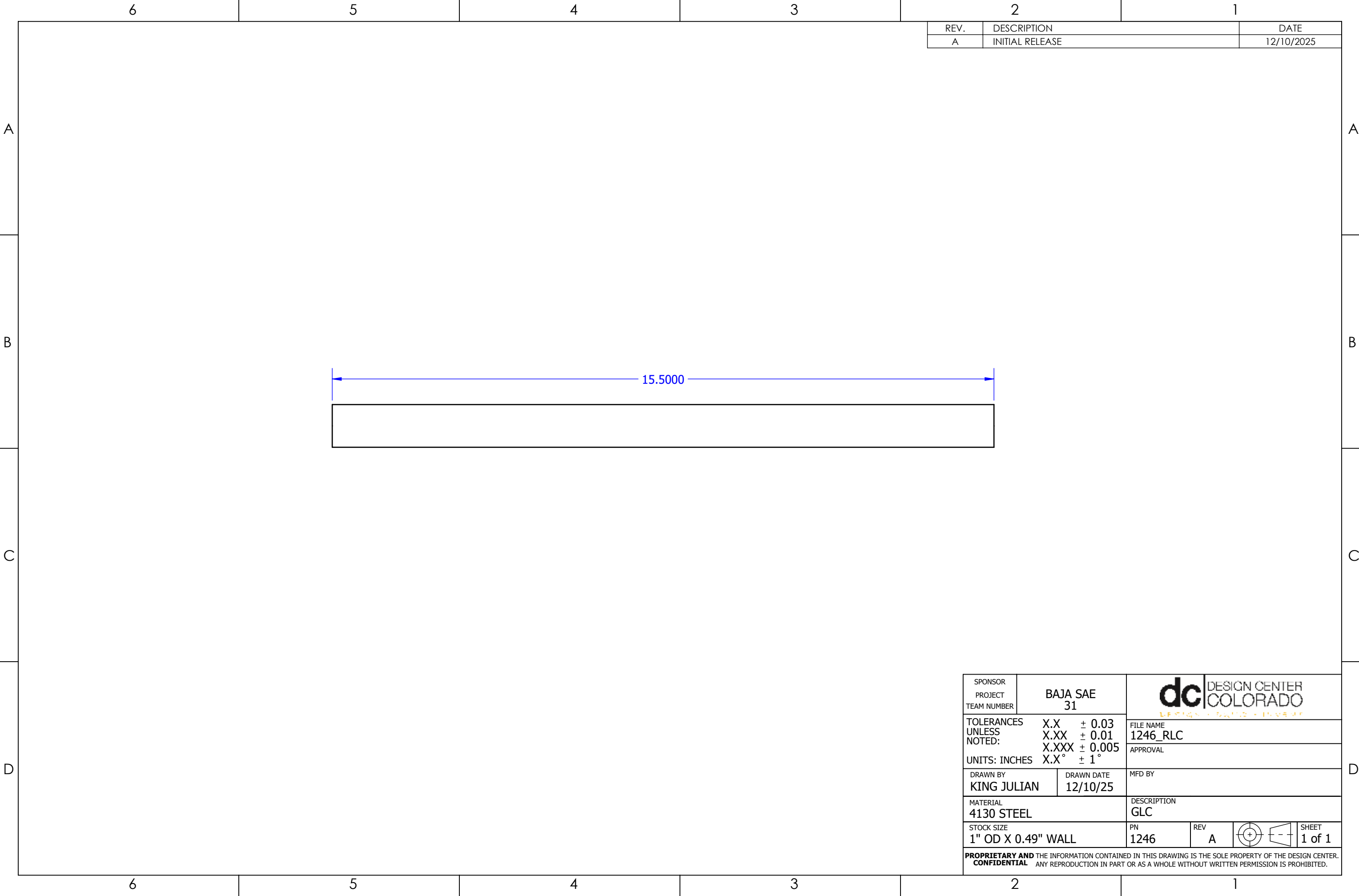


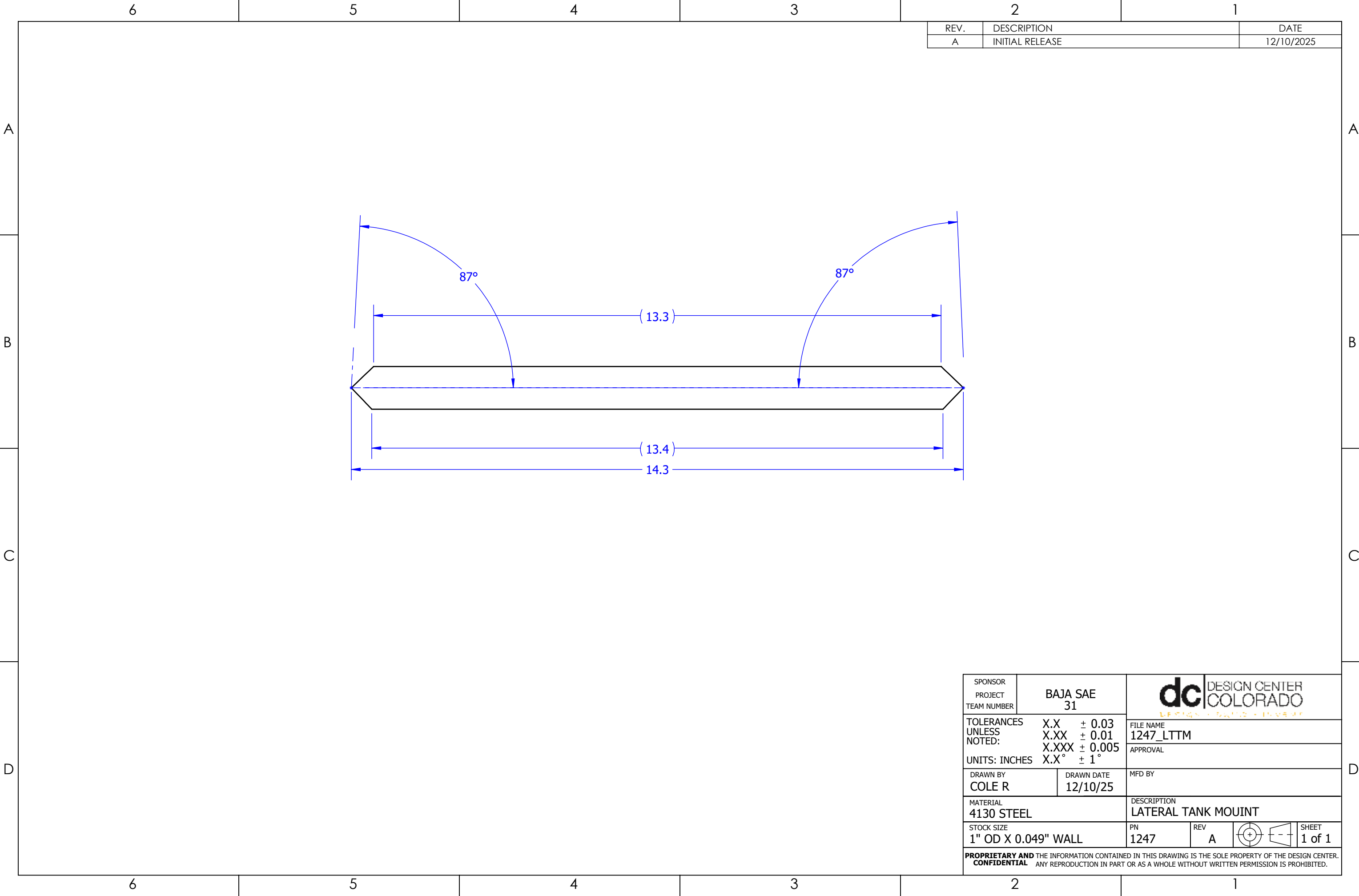


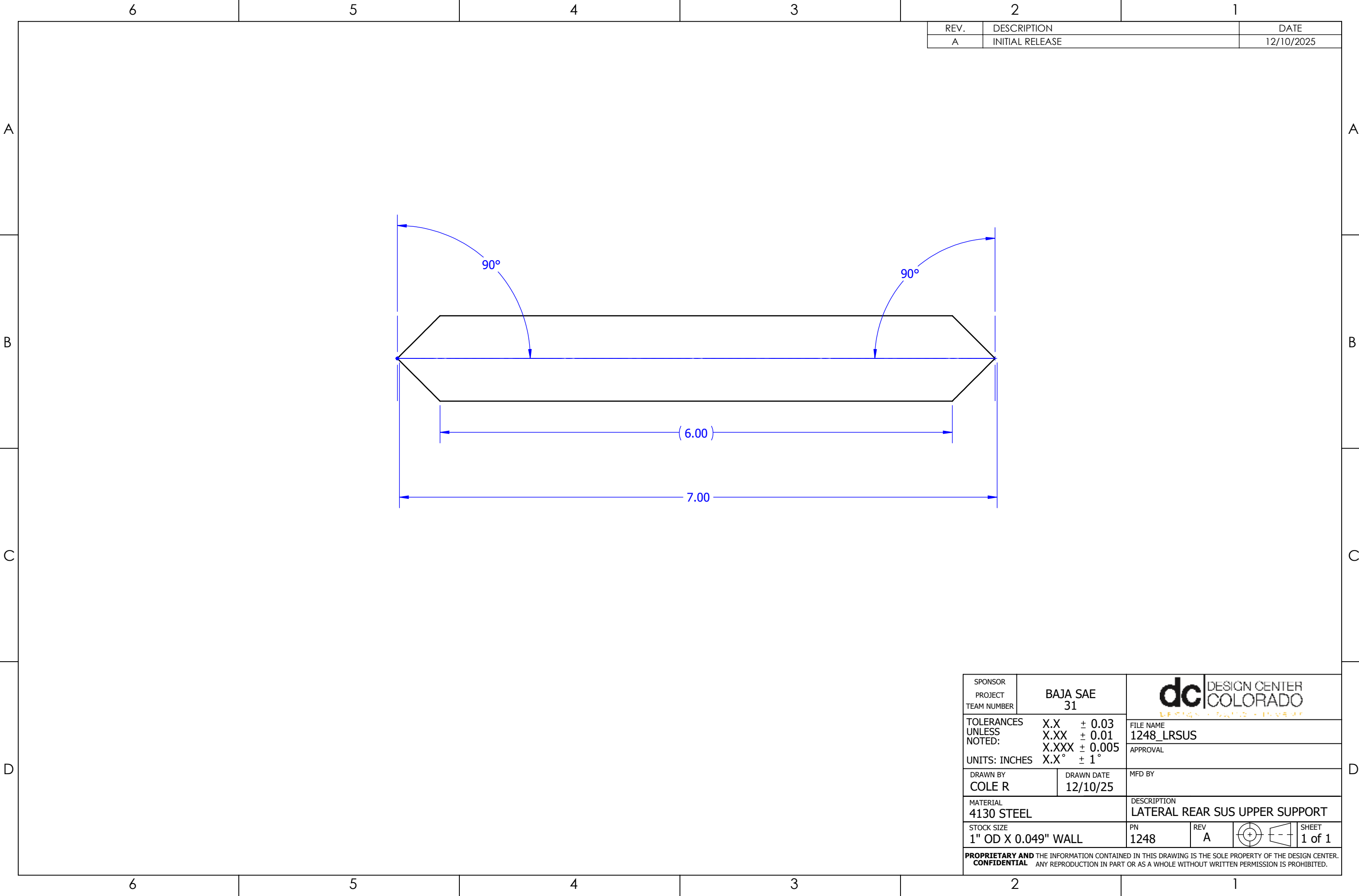
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT		
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005			
UNITS: INCHES		X.X° ±1°	FILE NAME 1242-RSIMR		
DRAWN BY AIDAN B		DRAWN DATE 12/13/25	APPROVAL		
MATERIAL 4130 STEEL		MFD BY			
STOCK SIZE 1" OD X .049 WALL TUBE		DESCRIPTION REAR SIM RIGHT			
PN 1242		REV A			SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					





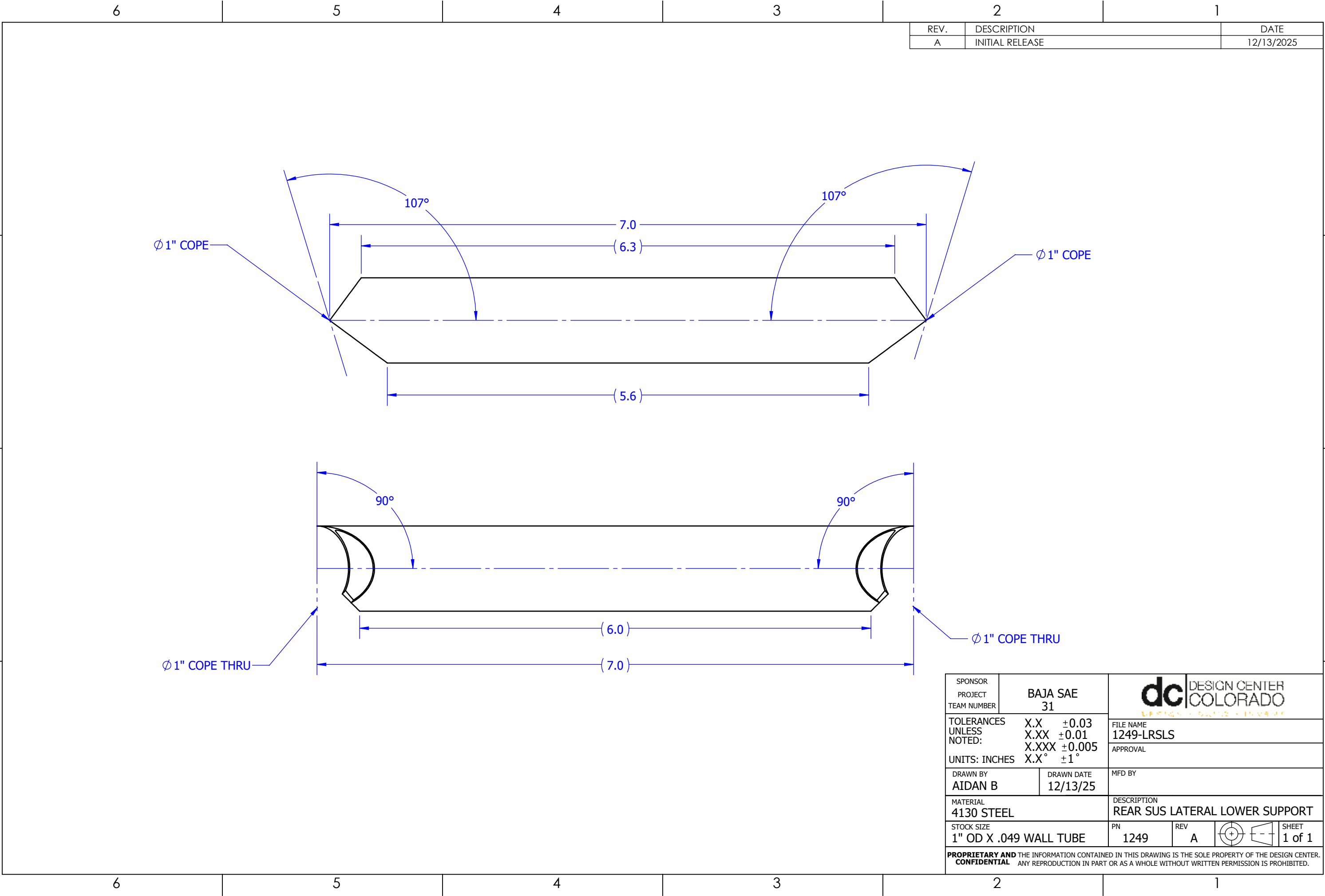






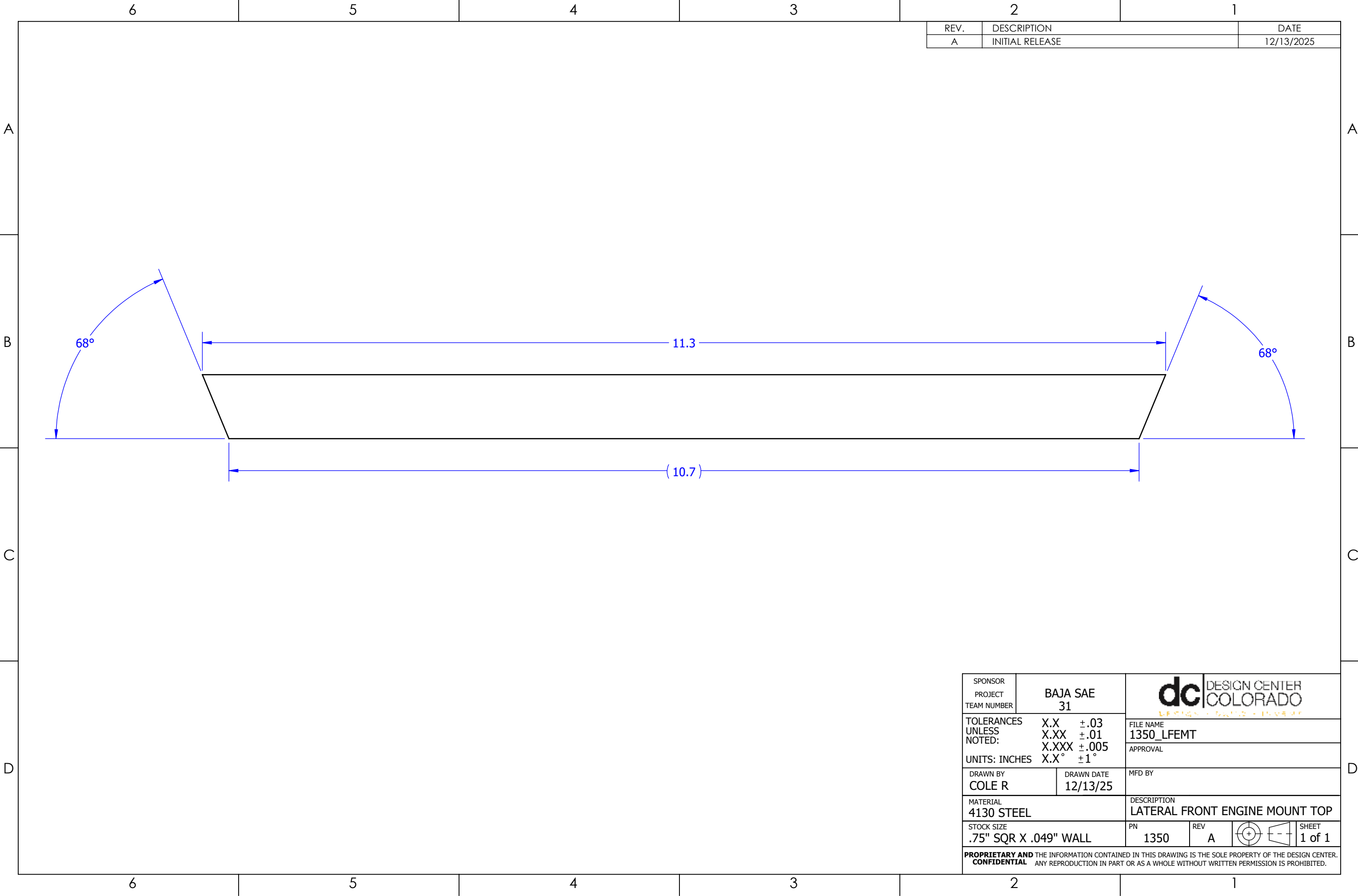
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/10/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:		X.X ± 0.03	FILE NAME 1248_LRSUS		
		X.XX ± 0.01	APPROVAL		
		X.XXX ± 0.005			
UNITS: INCHES		X.X° ± 1°			
DRAWN BY COLE R		DRAWN DATE 12/10/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION LATERAL REAR SUS UPPER SUPPORT		
STOCK SIZE 1" OD X 0.049" WALL			PN 1248	REV A	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



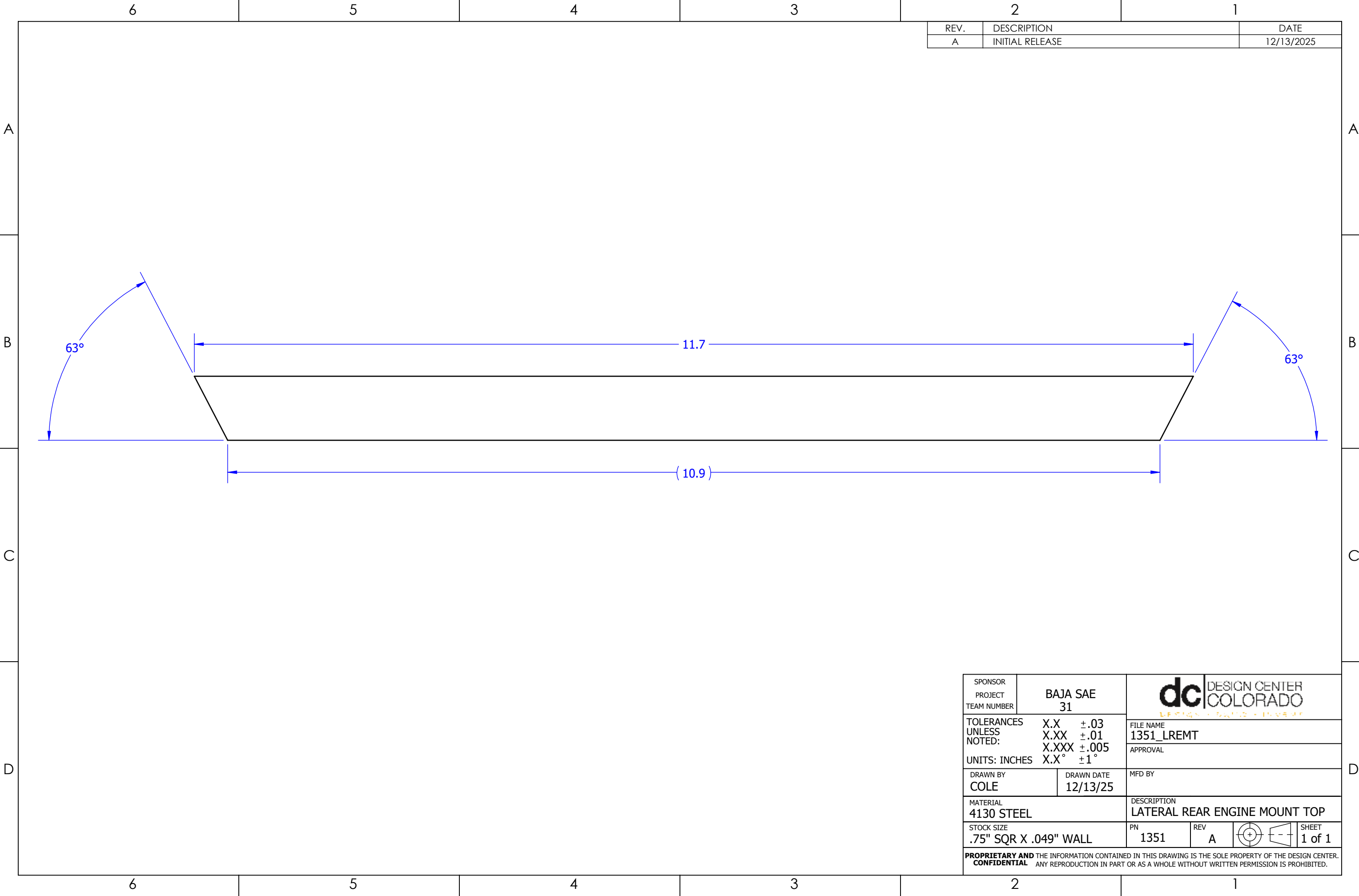
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE RACE	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 X.X° ±1°		FILE NAME 1249-LRSLs	
				APPROVAL	
DRAWN BY AIDAN B		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION REAR SUS LATERAL LOWER SUPPORT	
STOCK SIZE 1" OD X .049 WALL TUBE				PN 1249	REV A
					SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



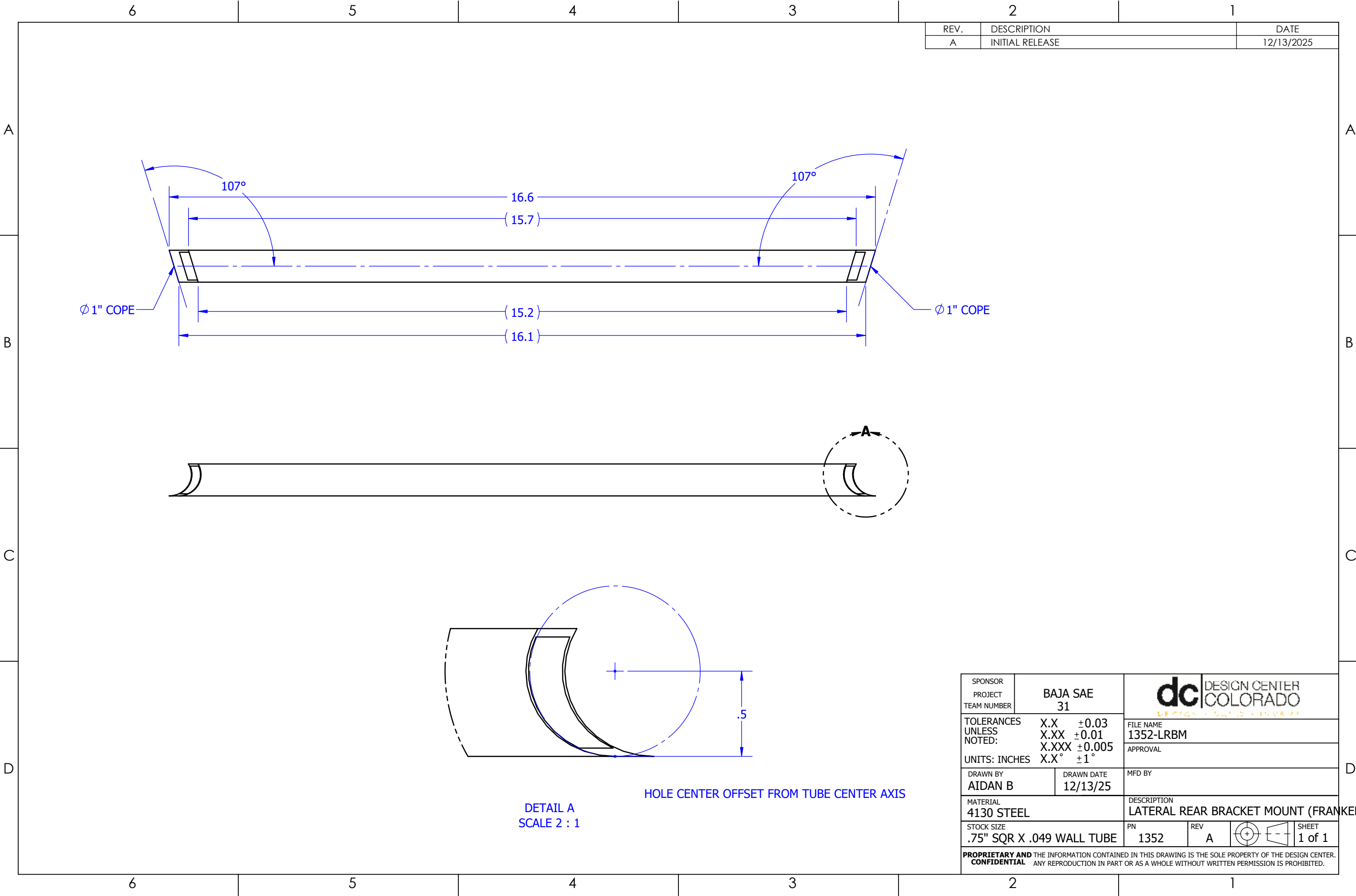
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

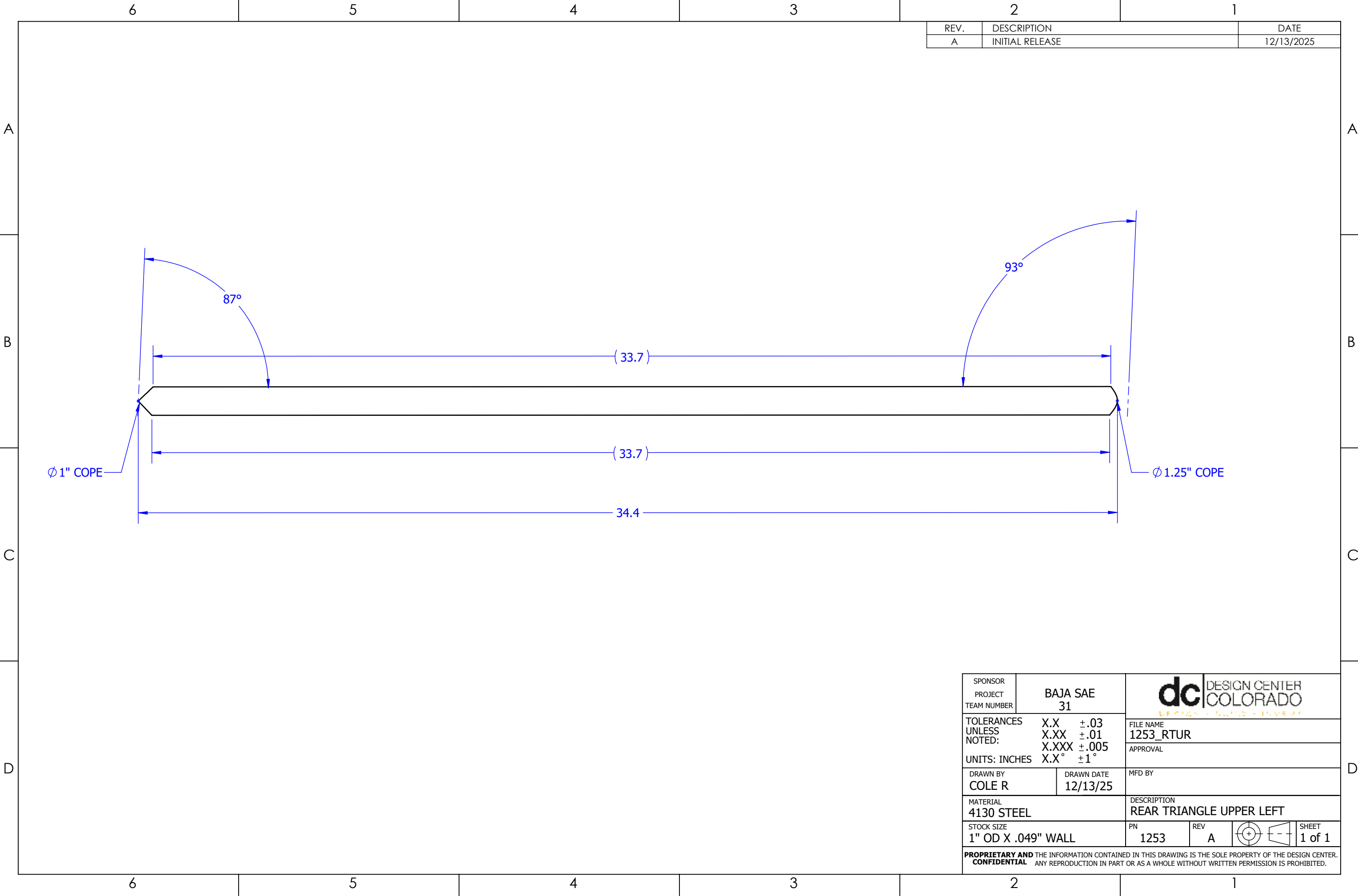
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT		
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005	FILE NAME 1350_LFEMT	
UNITS: INCHES		X.X° ±1°	APPROVAL	
DRAWN BY COLE R		DRAWN DATE 12/13/25	MFD BY	
MATERIAL 4130 STEEL			DESCRIPTION LATERAL FRONT ENGINE MOUNT TOP	
STOCK SIZE .75" SQR X .049" WALL			PN 1350	REV A
				SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.				



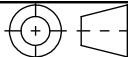
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

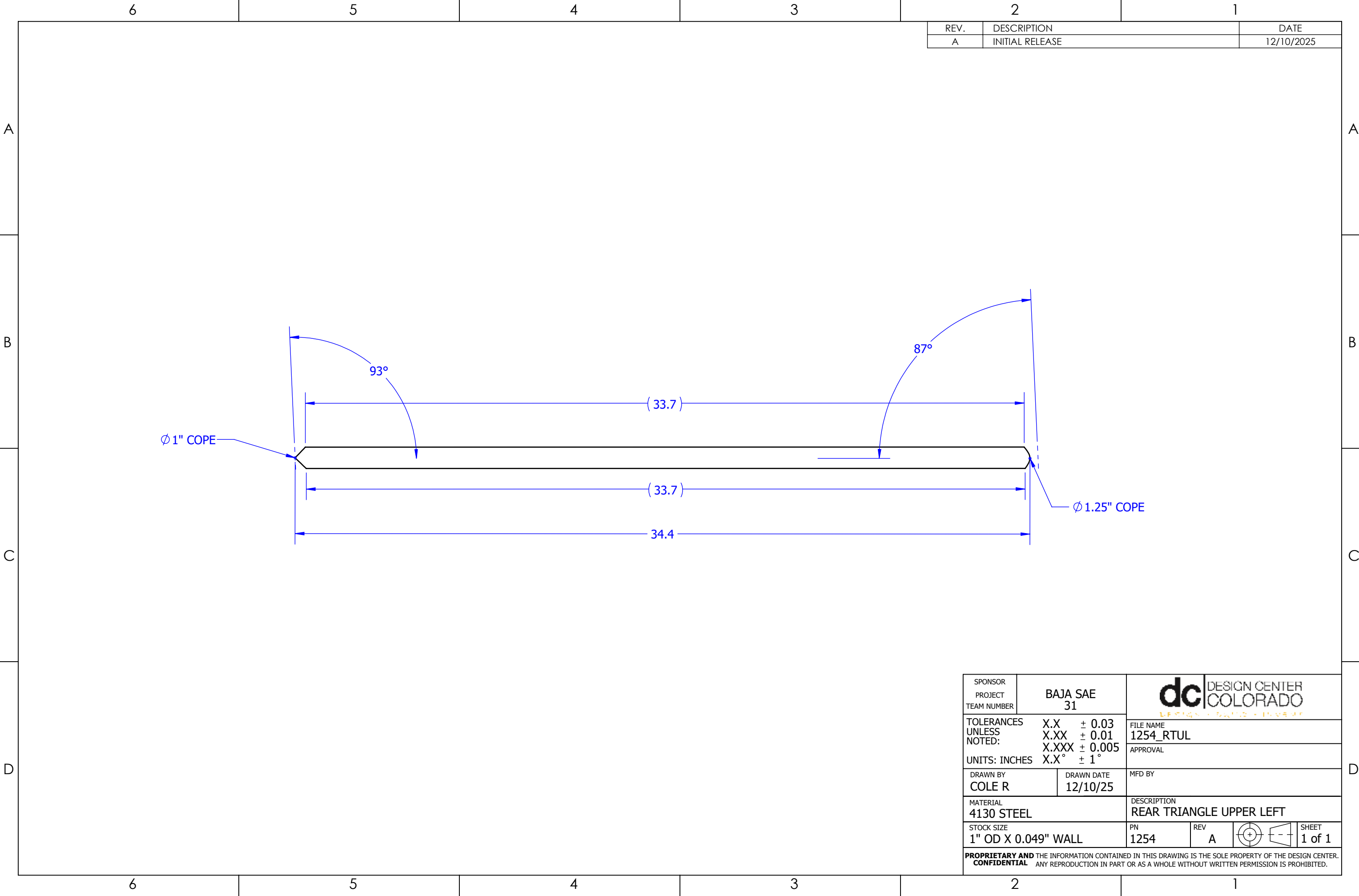
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005		FILE NAME 1351_LREMT
UNITS: INCHES		X.X° ±1°		APPROVAL
DRAWN BY COLE		DRAWN DATE 12/13/25		MFD BY
MATERIAL 4130 STEEL			DESCRIPTION LATERAL REAR ENGINE MOUNT TOP	
STOCK SIZE .75" SQR X .049" WALL			PN 1351	REV A
				SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.				

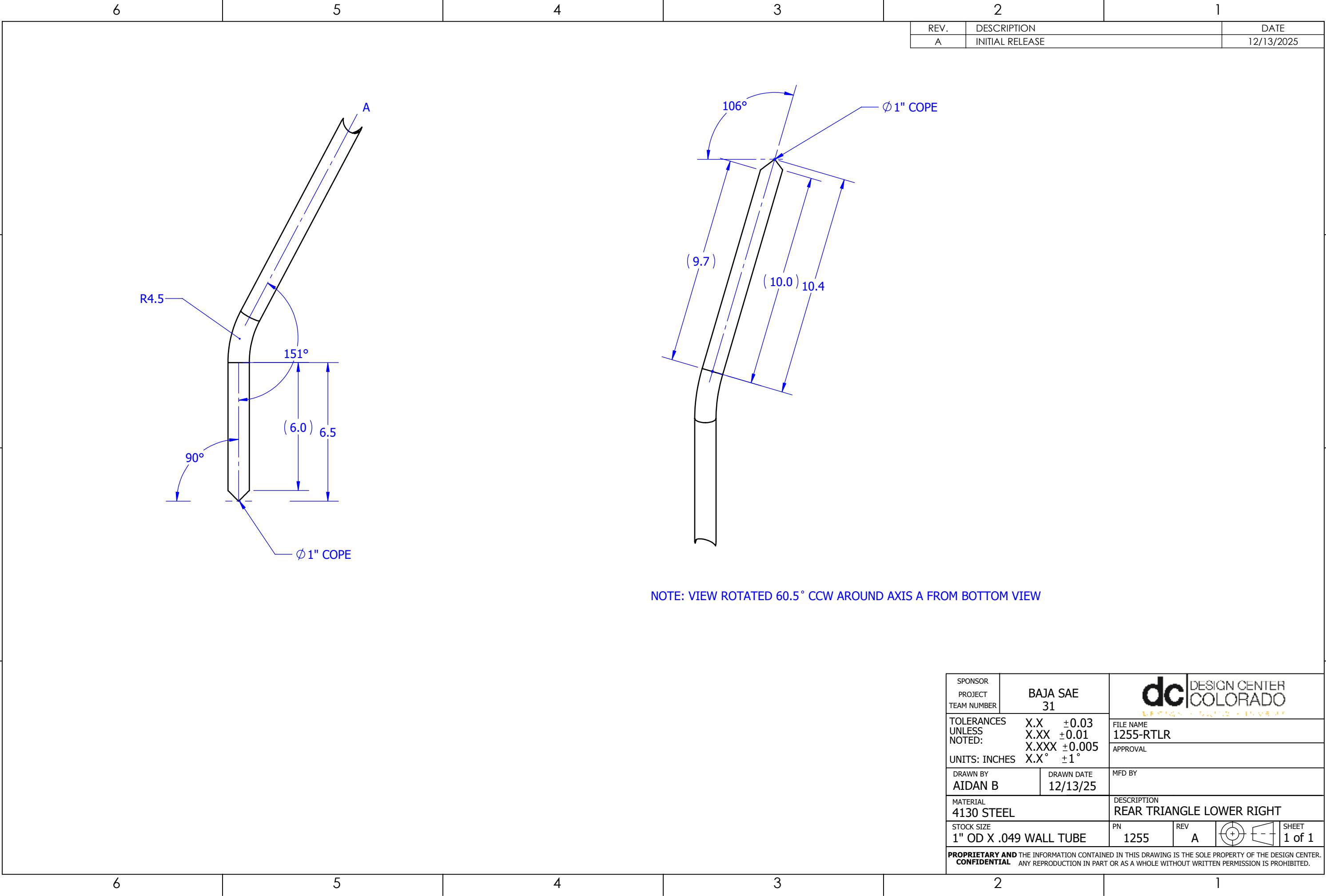


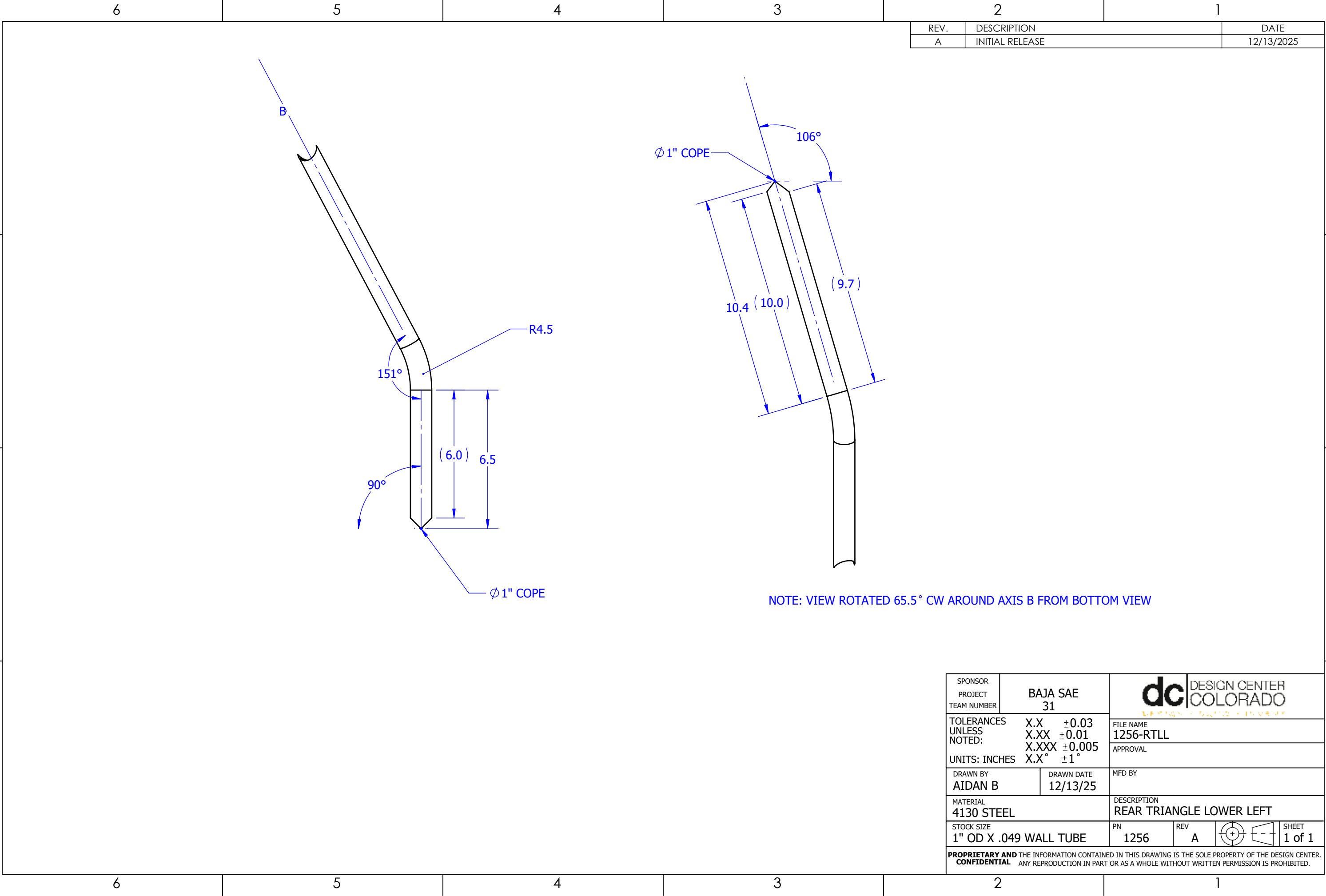


REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:		X.X ±.03 X.XX ±.01 X.XXX ±.005		FILE NAME 1253_RTUR	
				APPROVAL	
UNITS: INCHES		X.X° ±1°			
DRAWN BY COLE R		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL		DESCRIPTION REAR TRIANGLE UPPER LEFT			
STOCK SIZE 1" OD X .049" WALL		PN 1253	REV A		SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

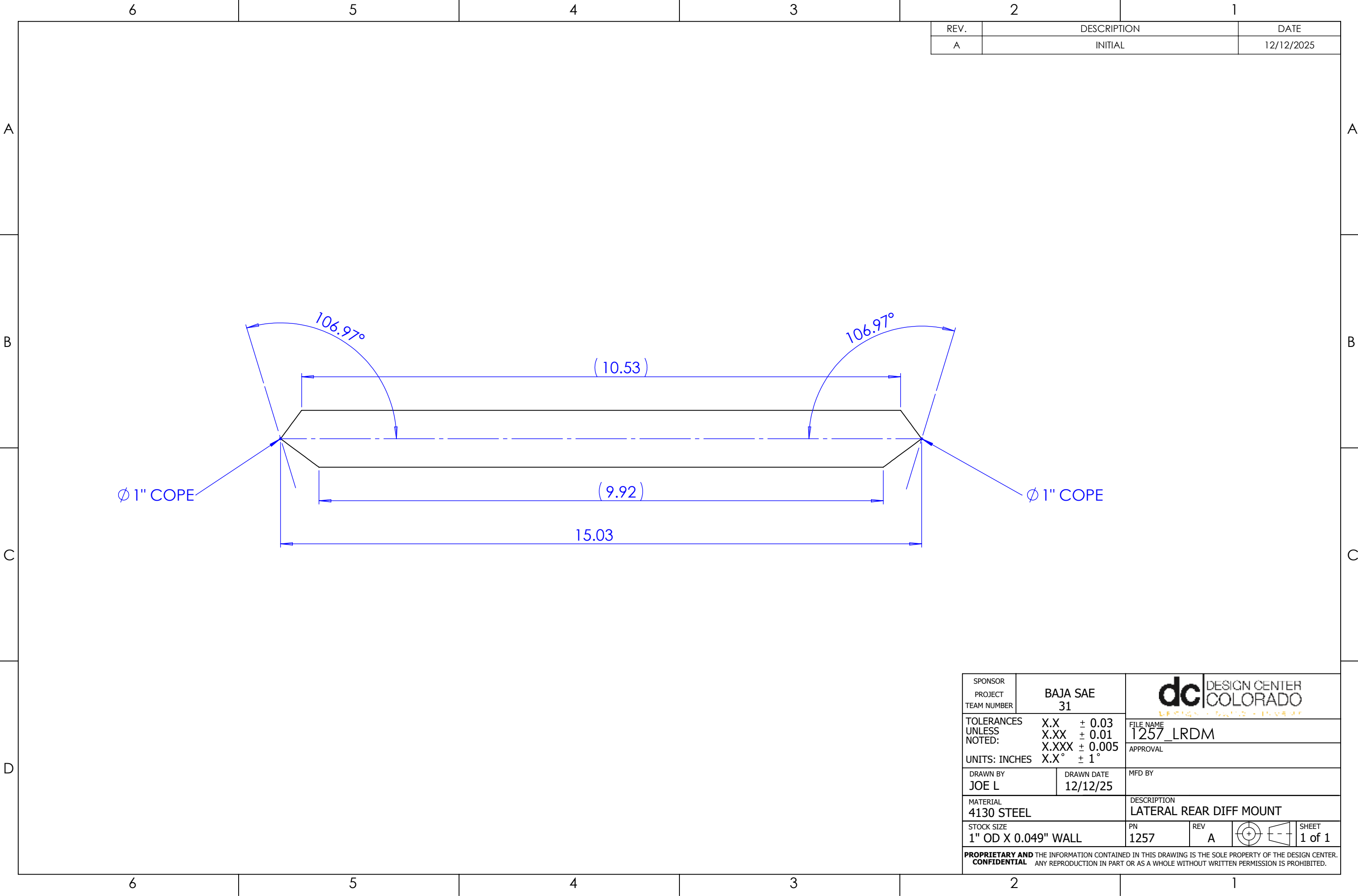


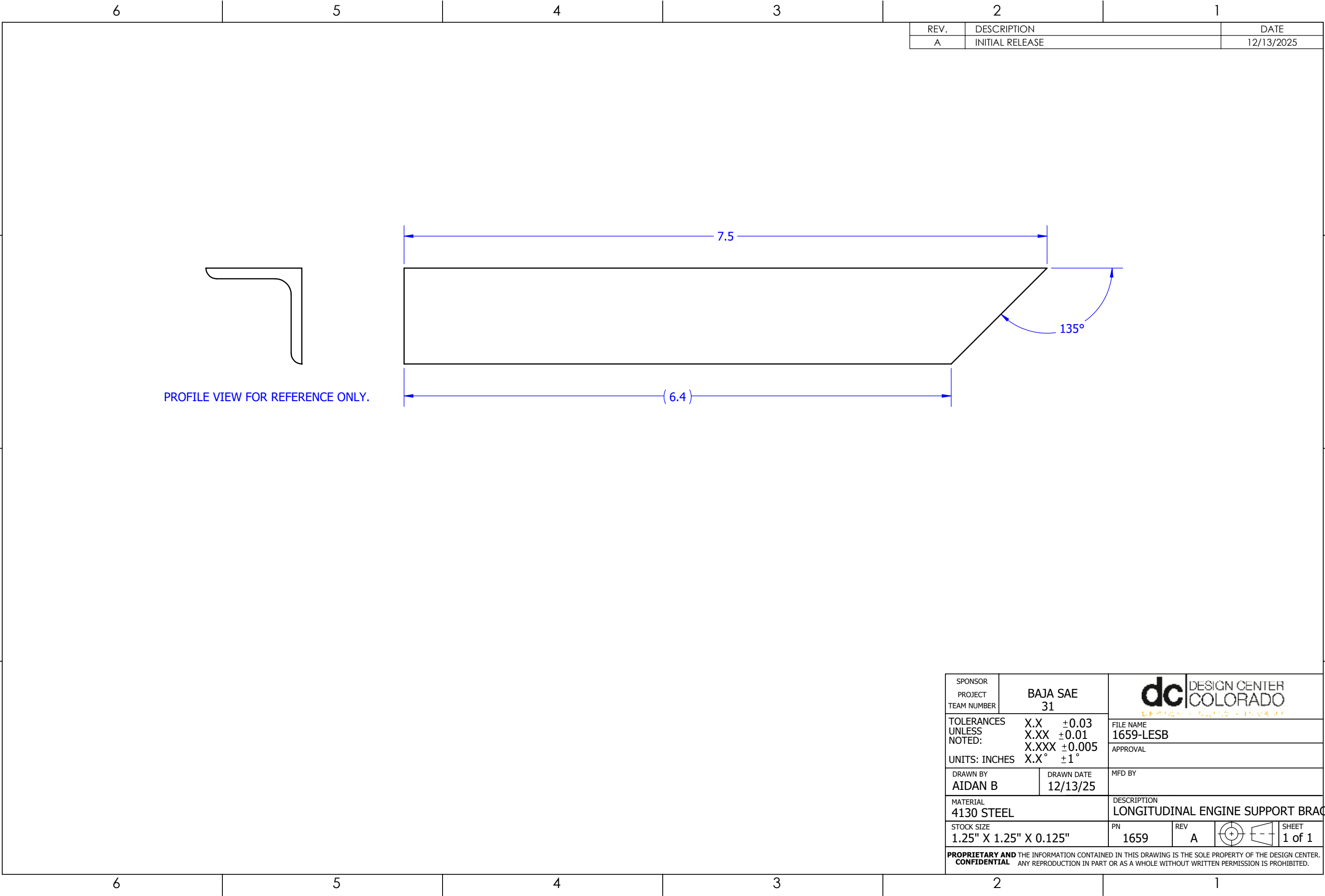




REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

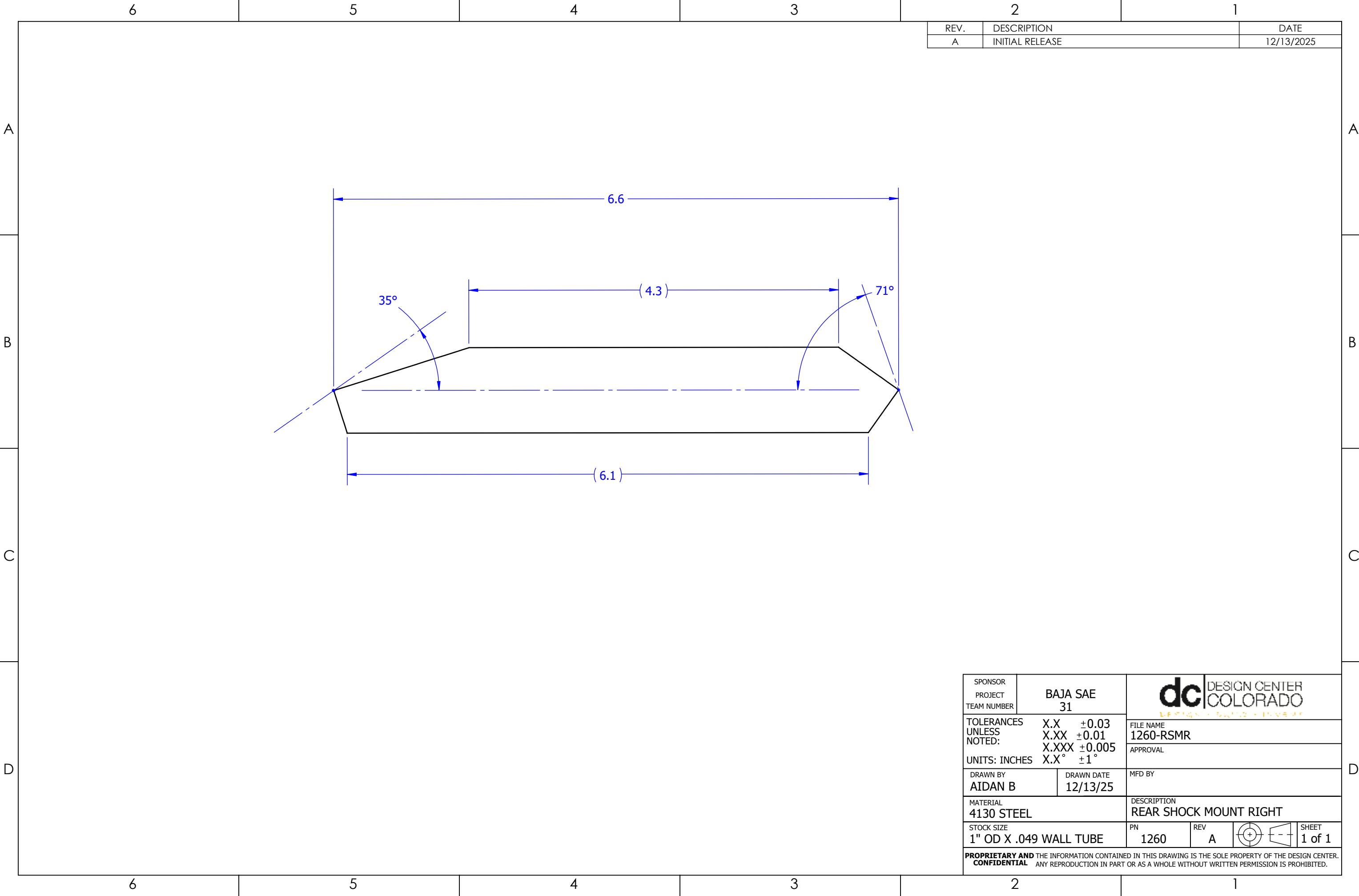
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • RACE	
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005		FILE NAME 1256-RTLL	
		UNITS: INCHES X.X° ±1°		APPROVAL	
DRAWN BY AIDAN B		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL		DESCRIPTION REAR TRIANGLE LOWER LEFT			
STOCK SIZE 1" OD X .049 WALL TUBE		PN 1256	REV A		SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



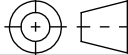


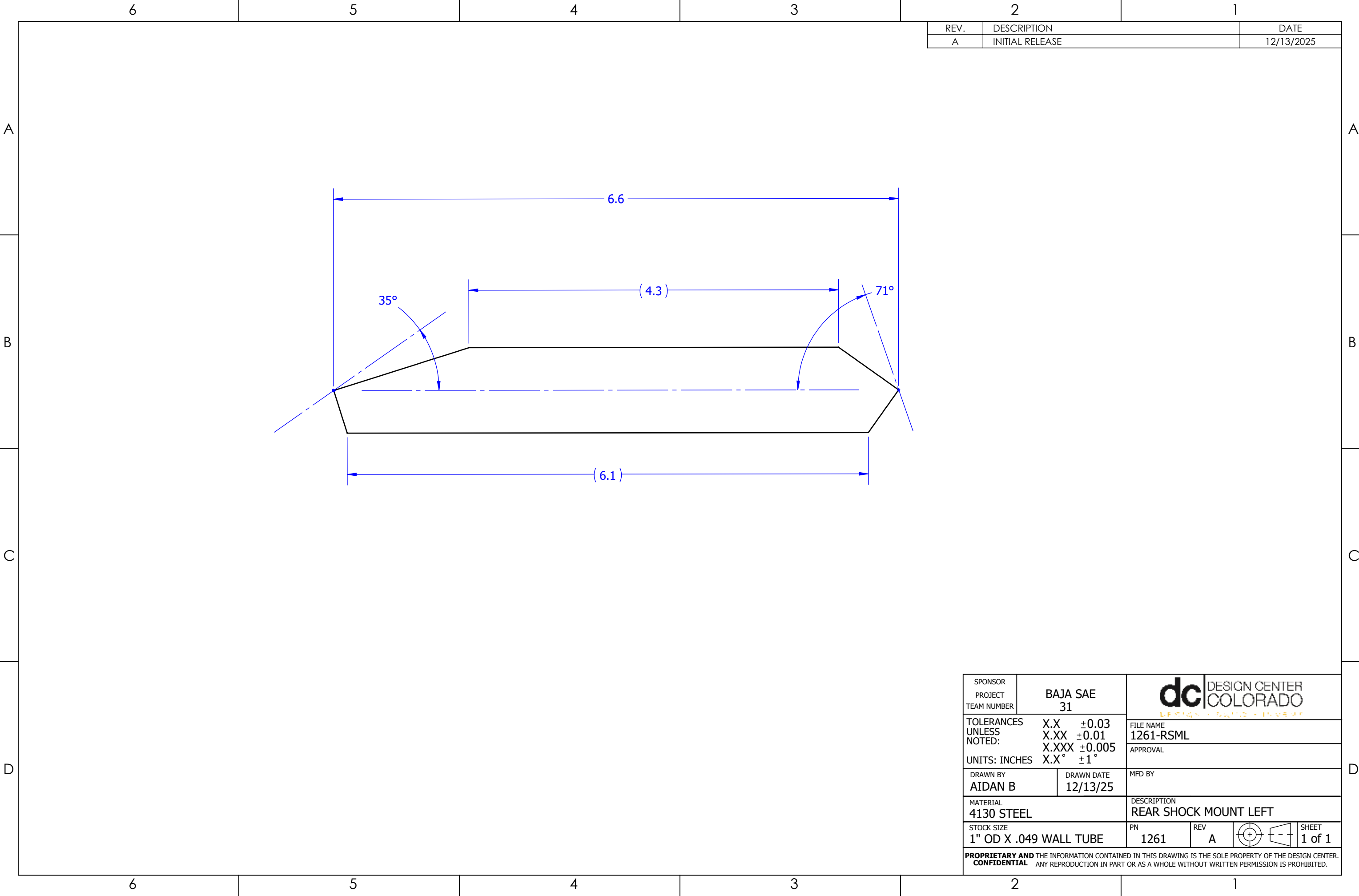
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • IMPROVE	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 X.X° ±1°		FILE NAME 1659-LESB	
				APPROVAL	
		DRAWN BY AIDAN B		DRAWN DATE 12/13/25	
				MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION LONGITUDINAL ENGINE SUPPORT BRACKET	
STOCK SIZE 1.25" X 1.25" X 0.125"				PN 1659	REV A
					SHEET 1 of 1
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

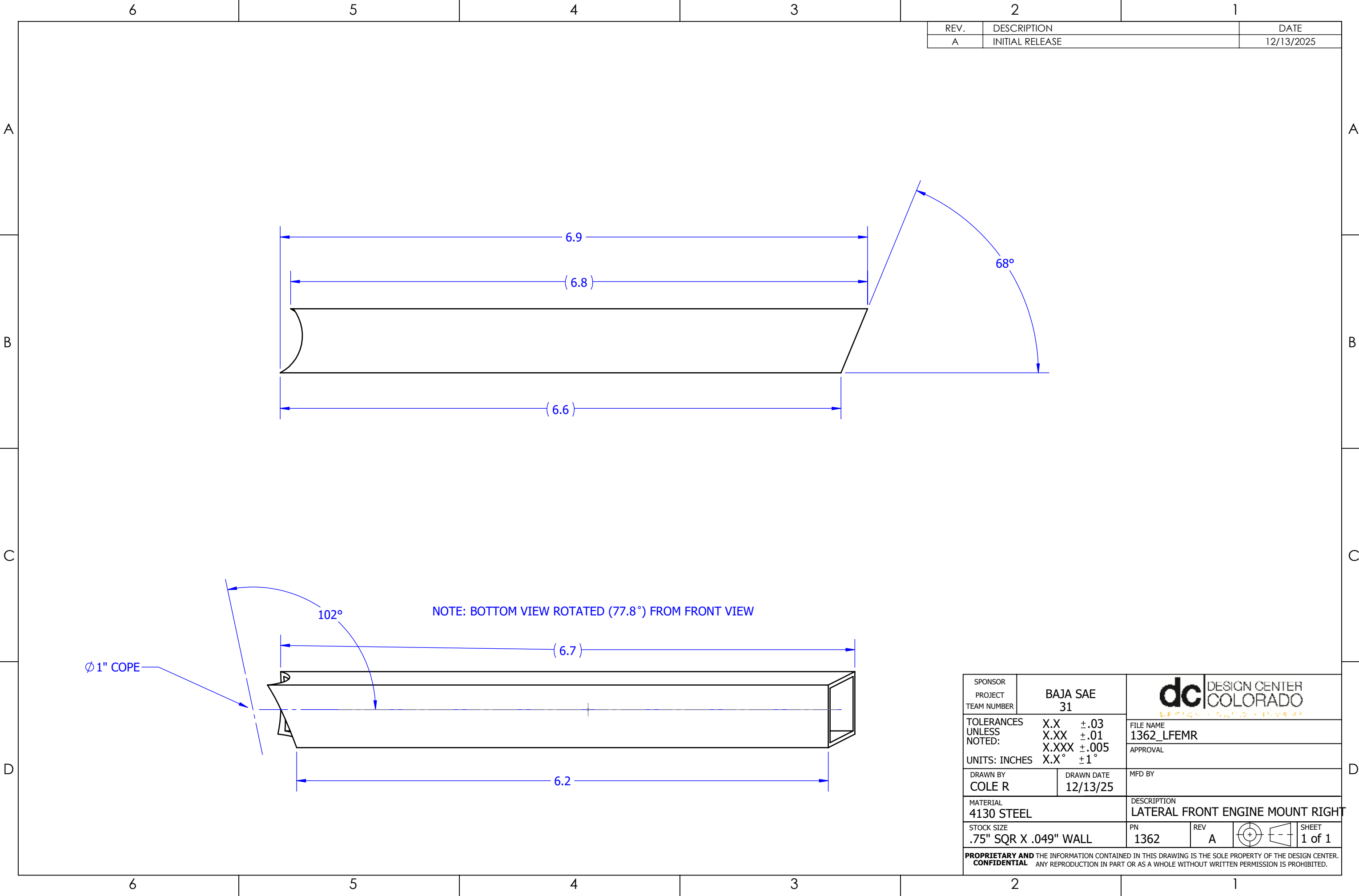
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TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005		FILE NAME 1260-RSMR	
		UNITS: INCHES X.X° ±1°		APPROVAL	
DRAWN BY AIDAN B		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL		DESCRIPTION REAR SHOCK MOUNT RIGHT			
STOCK SIZE 1" OD X .049 WALL TUBE		PN 1260	REV A		SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

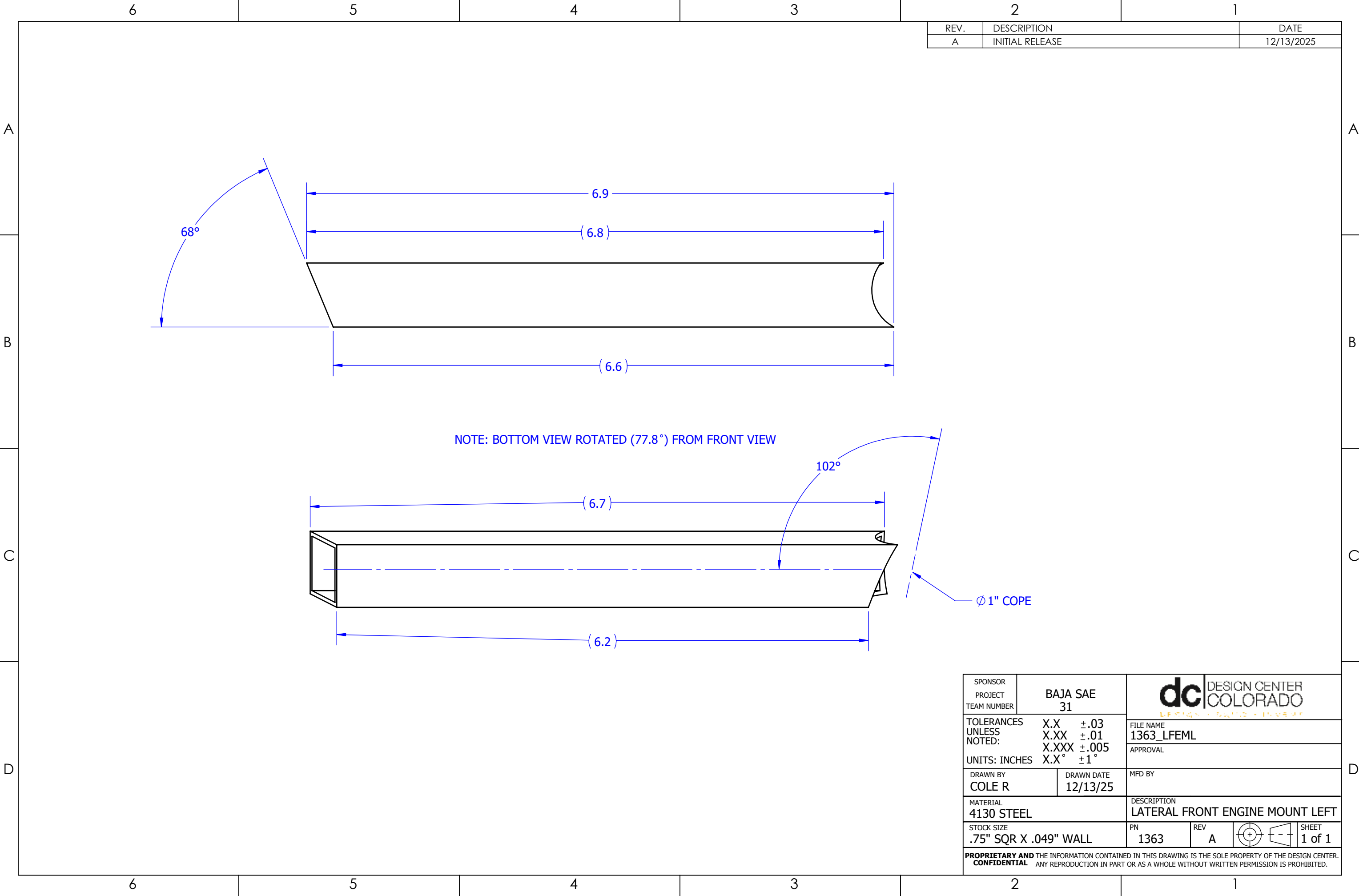


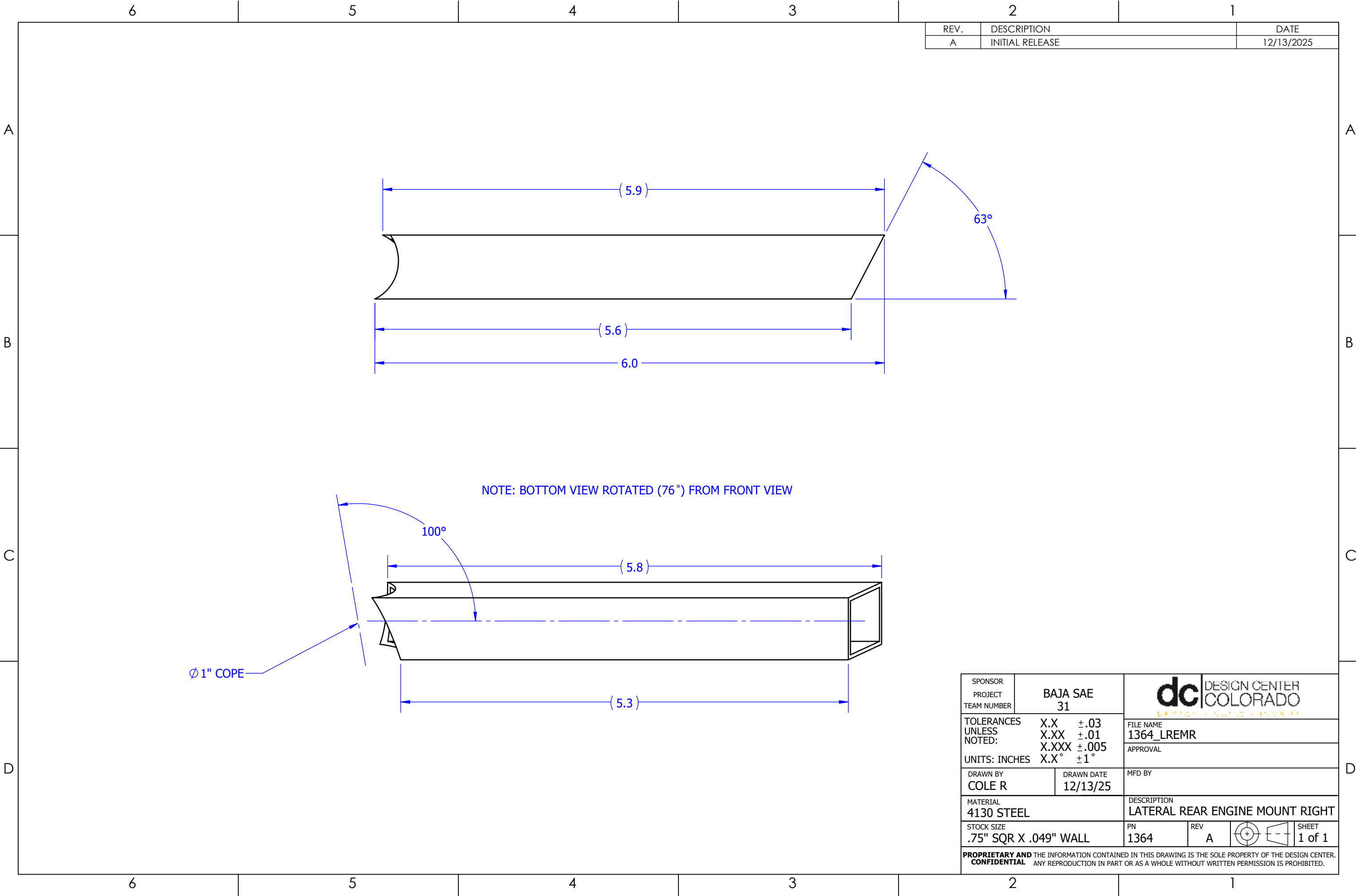
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO LEARN • BUILD • INVENT	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 X.X° ±1°		FILE NAME 1261-RSML	
				APPROVAL	
DRAWN BY AIDAN B		DRAWN DATE 12/13/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION REAR SHOCK MOUNT LEFT	
STOCK SIZE 1" OD X .049 WALL TUBE				PN 1261	REV A
					
				SHEET 1 of 1	
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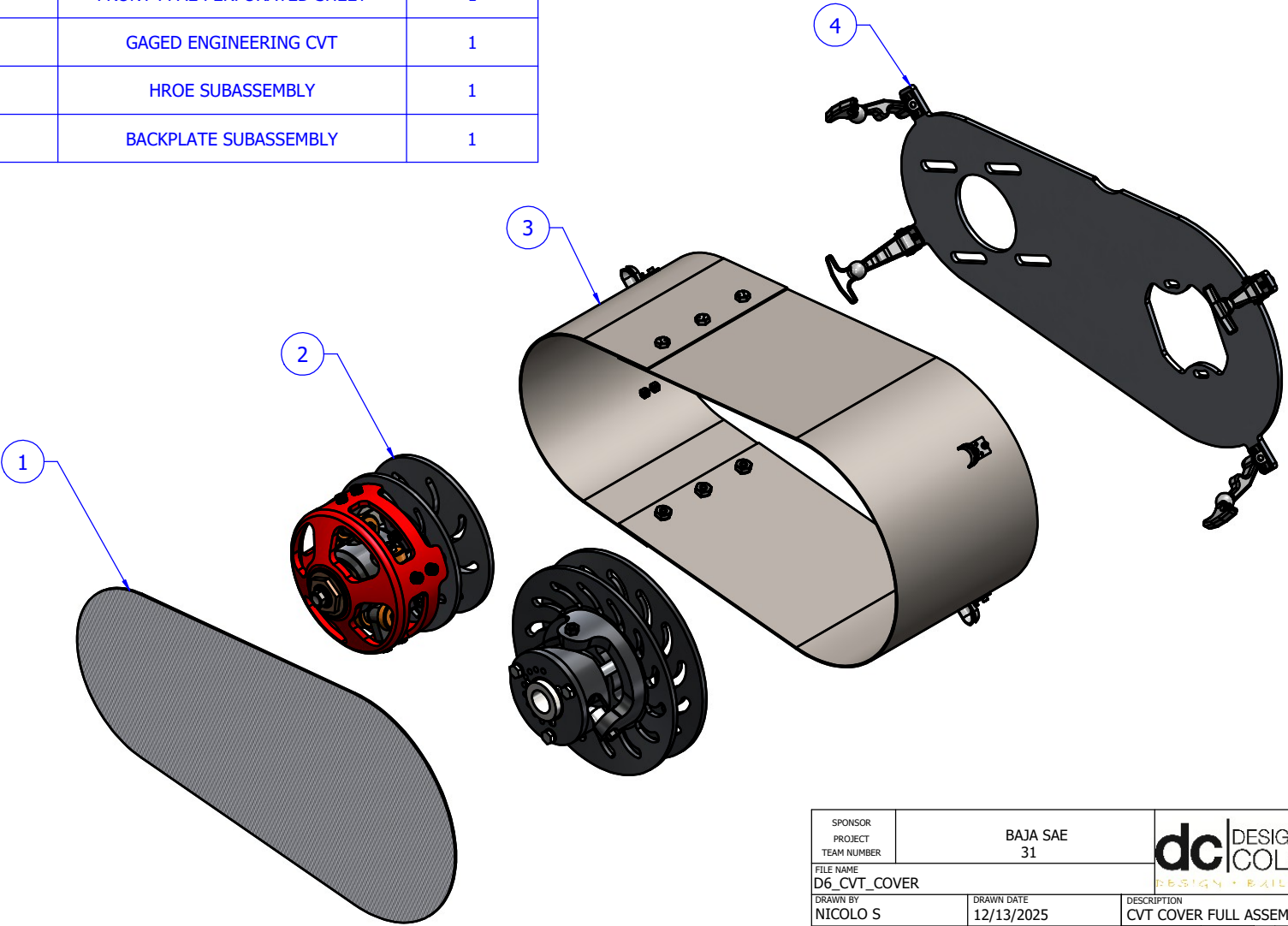




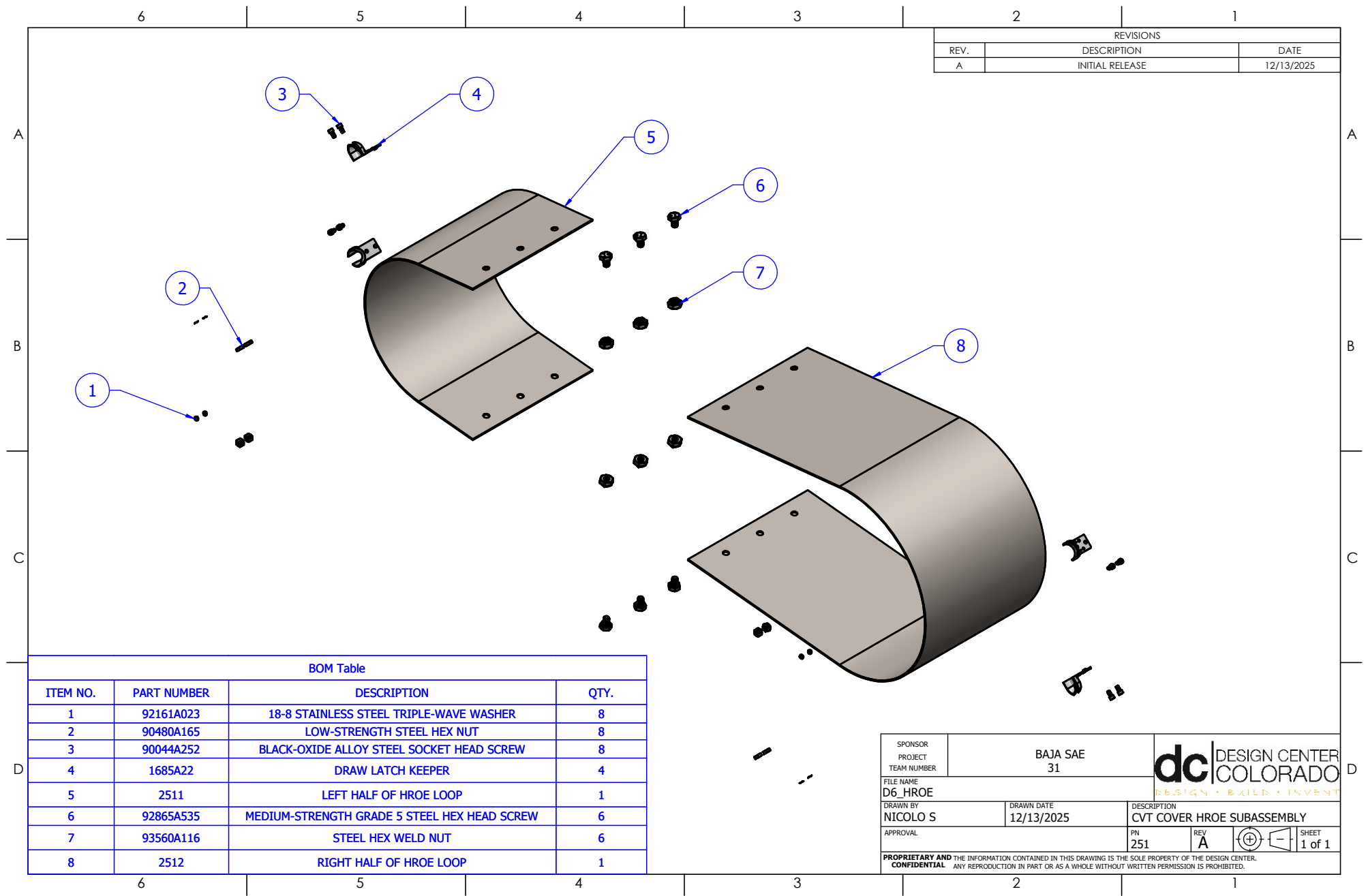


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2501	FRONT PPAE PERFORATED SHEET	1
2	GX9	GAGED ENGINEERING CVT	1
3	251	HROE SUBASSEMBLY	1
4	252	BACKPLATE SUBASSEMBLY	1

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025



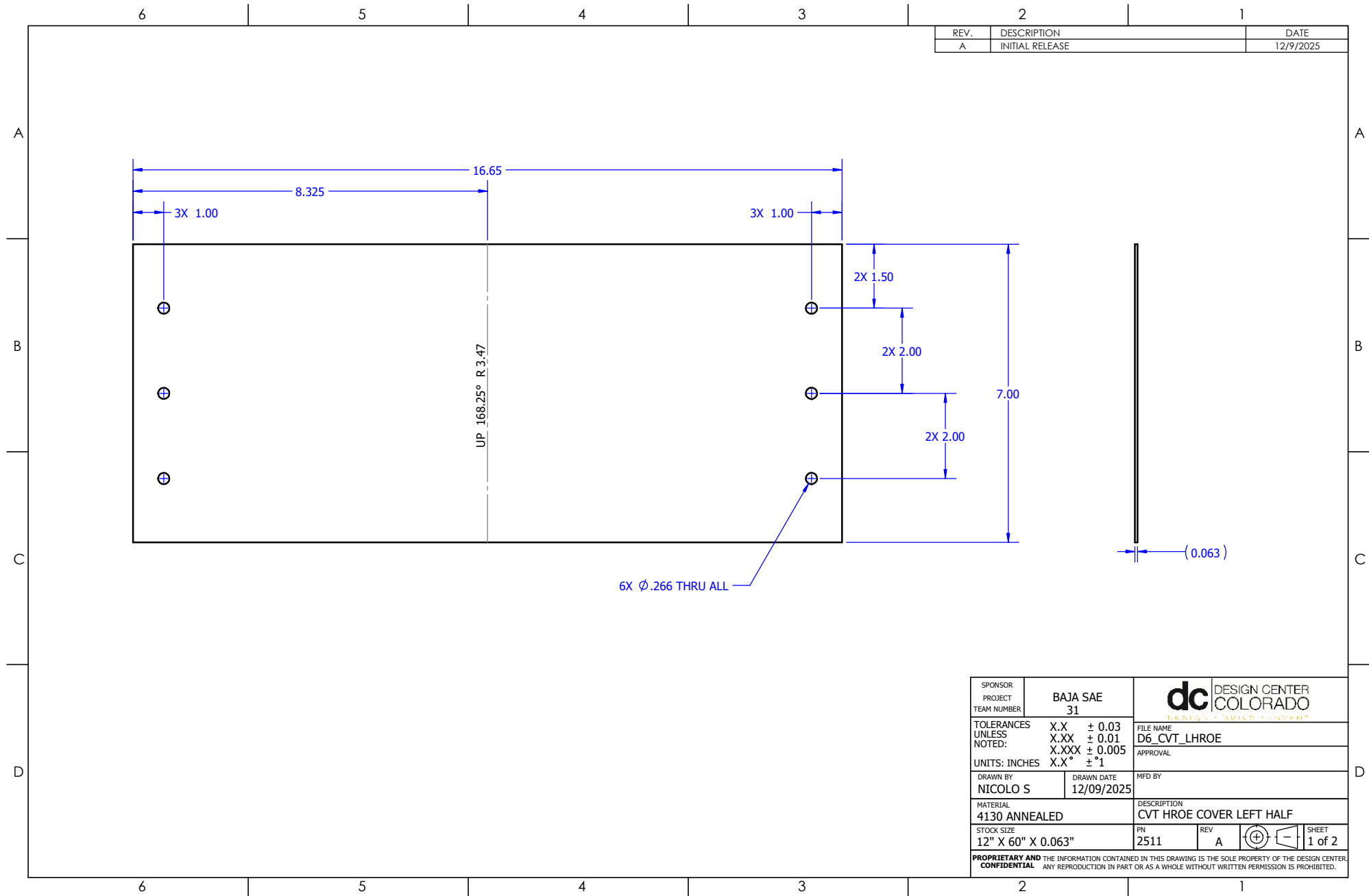
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31			
FILE NAME D6_CVT_COVER				DESIGN + BUILD + INVENT	
DRAWN BY NICOLO S		DRAWN DATE 12/13/2025		DESCRIPTION CVT COVER FULL ASSEMBLY	
APPROVAL		PN 25		REV A	
					
PROPRIETARY AND CONFIDENTIAL				SHEET 1 of 2	
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

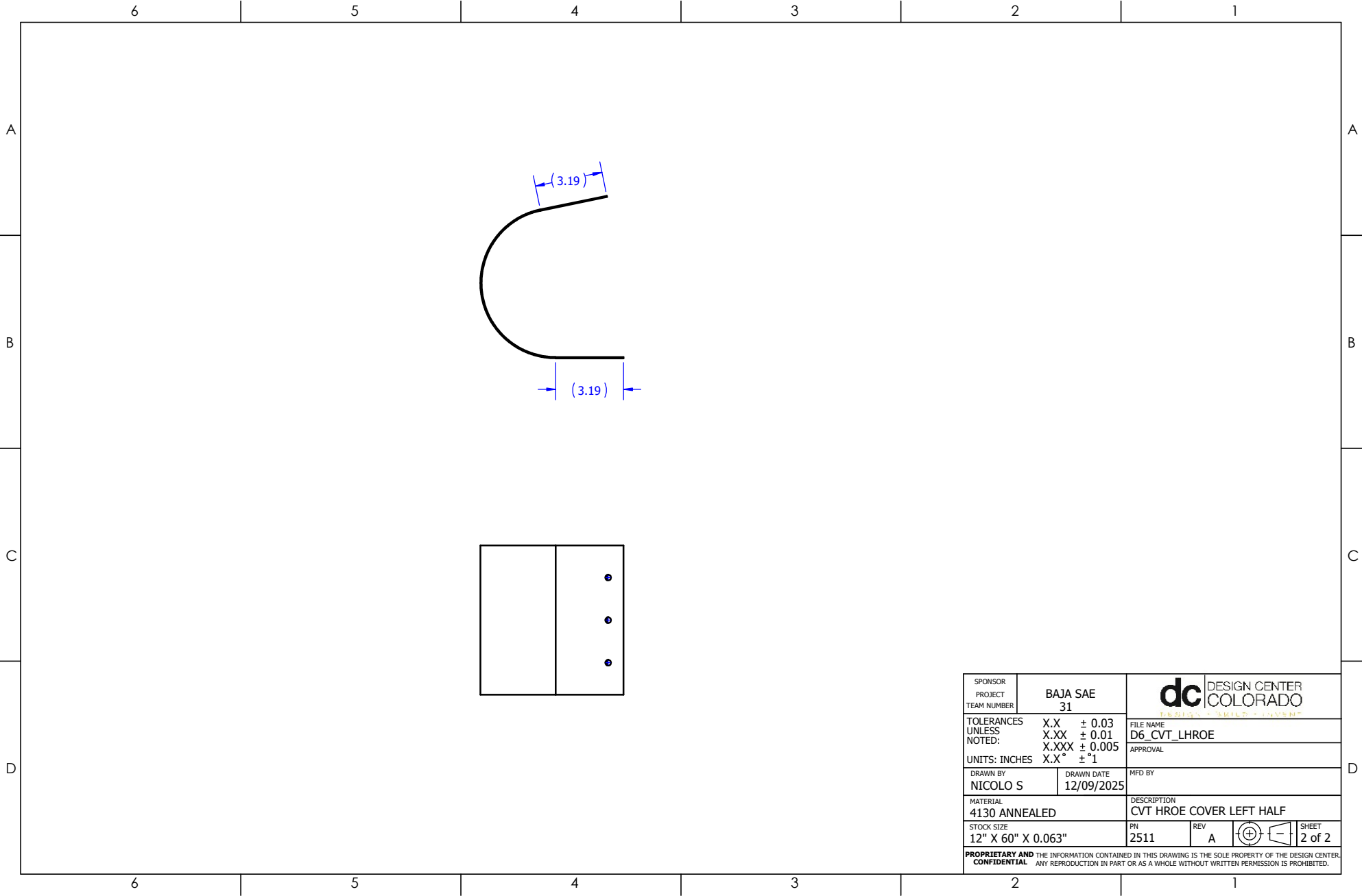


REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

BOM Table			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	92161A023	18-8 STAINLESS STEEL TRIPLE-WAVE WASHER	8
2	90480A165	LOW-STRENGTH STEEL HEX NUT	8
3	90044A252	BLACK-OXIDE ALLOY STEEL SOCKET HEAD SCREW	8
4	1685A22	DRAW LATCH KEEPER	4
5	2511	LEFT HALF OF HROE LOOP	1
6	92865A535	MEDIUM-STRENGTH GRADE 5 STEEL HEX HEAD SCREW	6
7	93560A116	STEEL HEX WELD NUT	6
8	2512	RIGHT HALF OF HROE LOOP	1

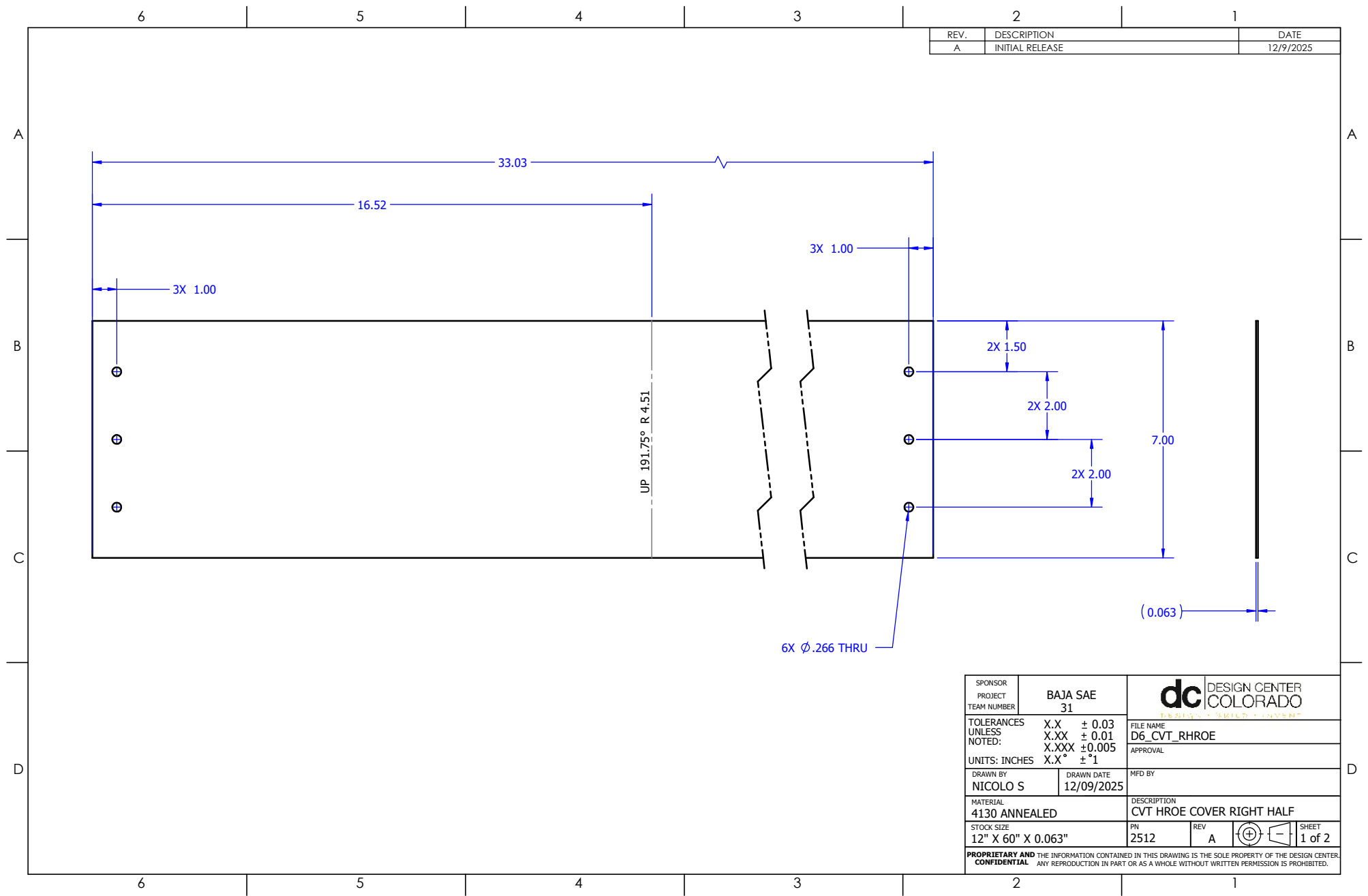
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME D6_HROE					
DRAWN BY NICOLO S		DRAWN DATE 12/13/2025		DESCRIPTION CVT COVER HROE SUBASSEMBLY	
APPROVAL		PN 251		REV A	SHEET 1 of 1
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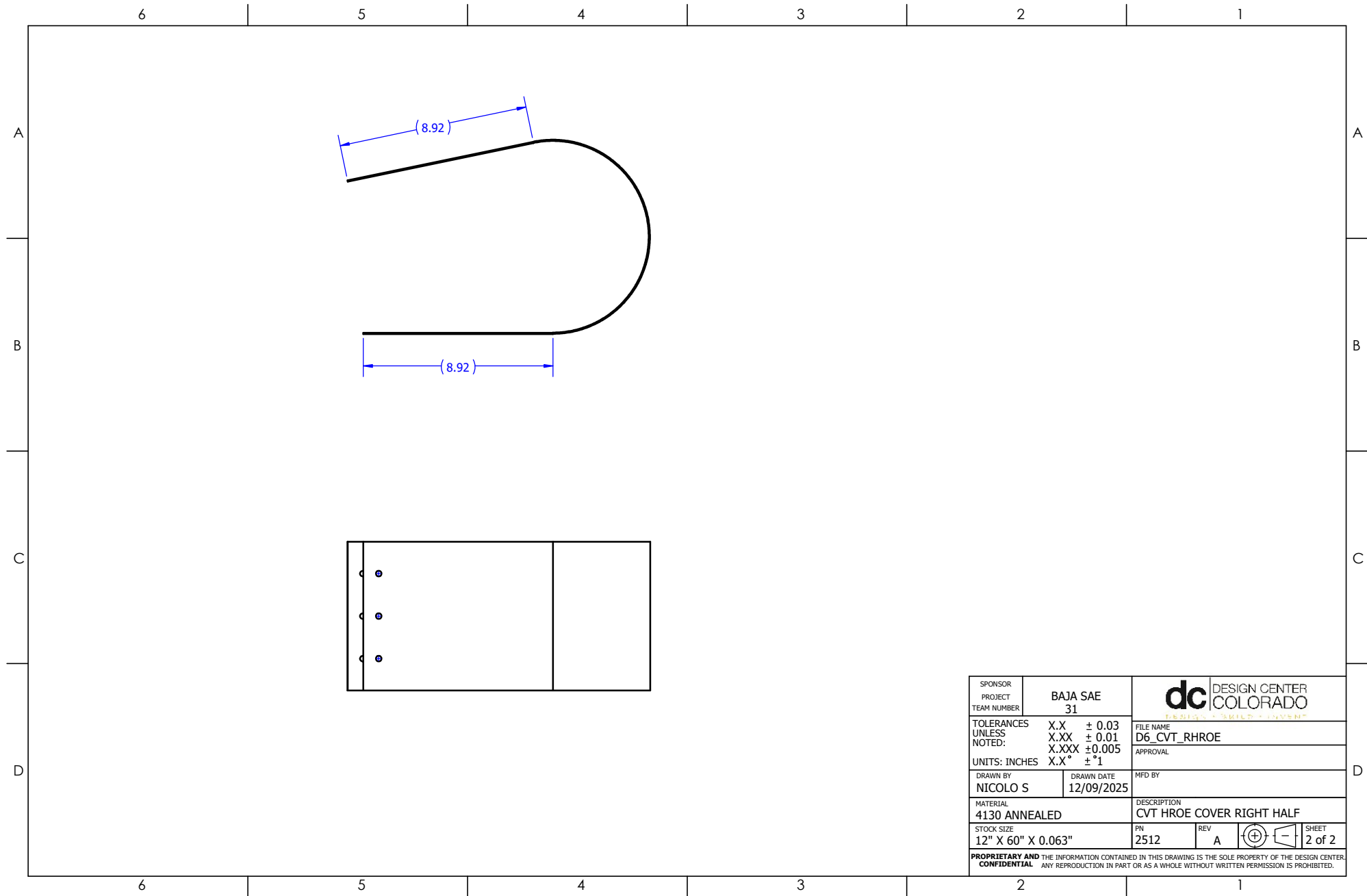
SPONSOR		dc DESIGN CENTER COLORADO DESIGN • BUILD • INSURE	
PROJECT TEAM NUMBER			
BAJA SAE 31		FILE NAME D6_CVT_LHROE	
TOLERANCES UNLESS NOTED:		APPROVAL	
X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± *1			
UNITS: INCHES			
DRAWN BY NICOLO S		MFD BY	
DRAWN DATE 12/09/2025			
MATERIAL 4130 ANNEALED		DESCRIPTION CVT HROE COVER LEFT HALF	
STOCK SIZE 12" X 60" X 0.063"		PN 2511	REV A
PROPRIETARY AND CONFIDENTIAL			
		SHEET 2 of 2	
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			

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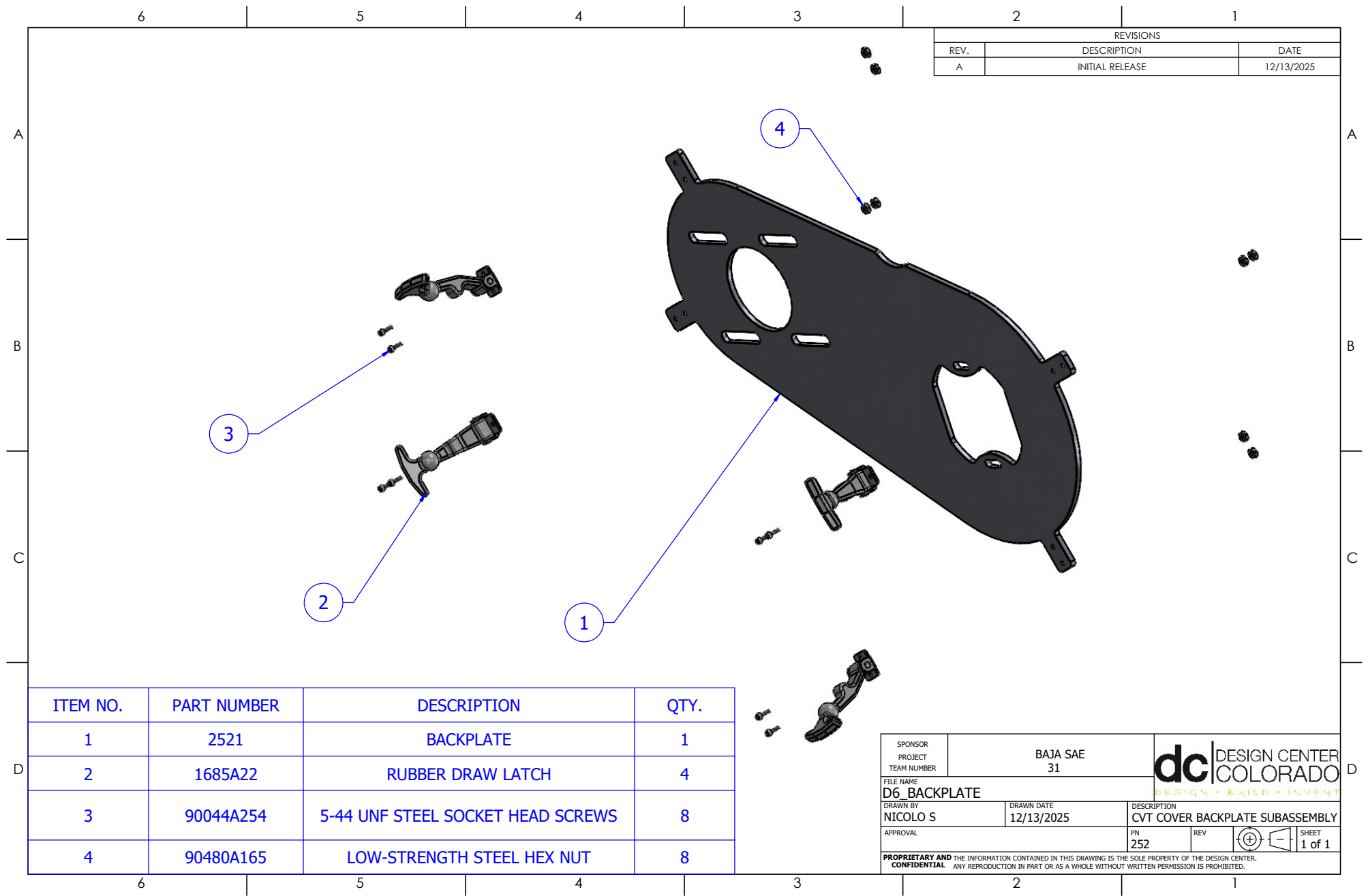


REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • SKILL • GROWTH	
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± .1		FILE NAME D6_CVT_RHROE	
UNITS: INCHES				APPROVAL	
DRAWN BY NICOLO S		DRAWN DATE 12/09/2025		MFD BY	
MATERIAL 4130 ANNEALED		DESCRIPTION CVT HROE COVER RIGHT HALF			
STOCK SIZE 12" X 60" X 0.063"		PN 2512	REV A		SHEET 1 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



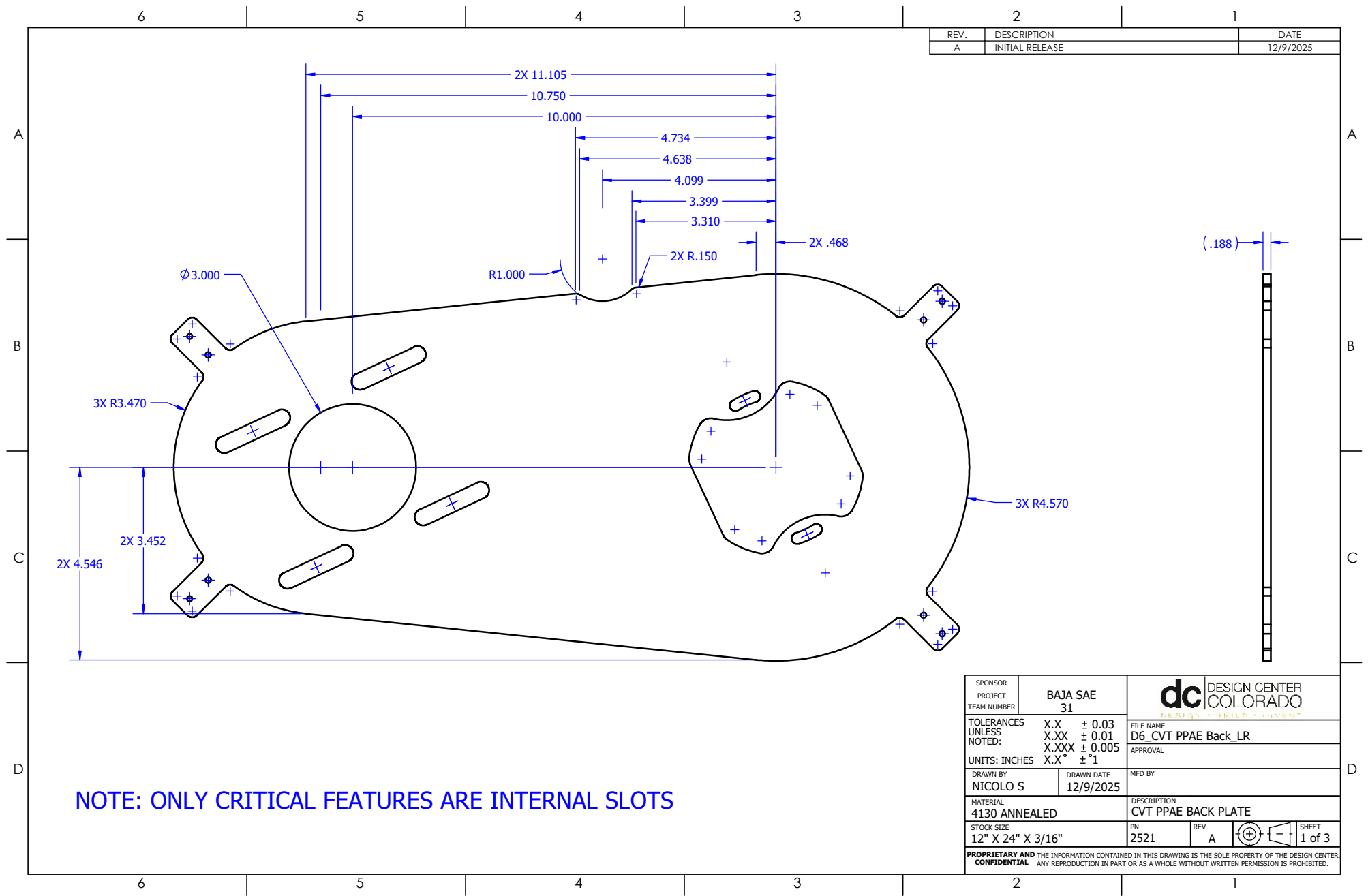
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005		FILE NAME D6_CVT_RHROE	
UNITS: INCHES		X.X° ± *1		APPROVAL	
DRAWN BY NICOLO S		DRAWN DATE 12/09/2025		MFD BY	
MATERIAL 4130 ANNEALED		DESCRIPTION CVT HROE COVER RIGHT HALF			
STOCK SIZE 12" X 60" X 0.063"		PN 2512	REV A		SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

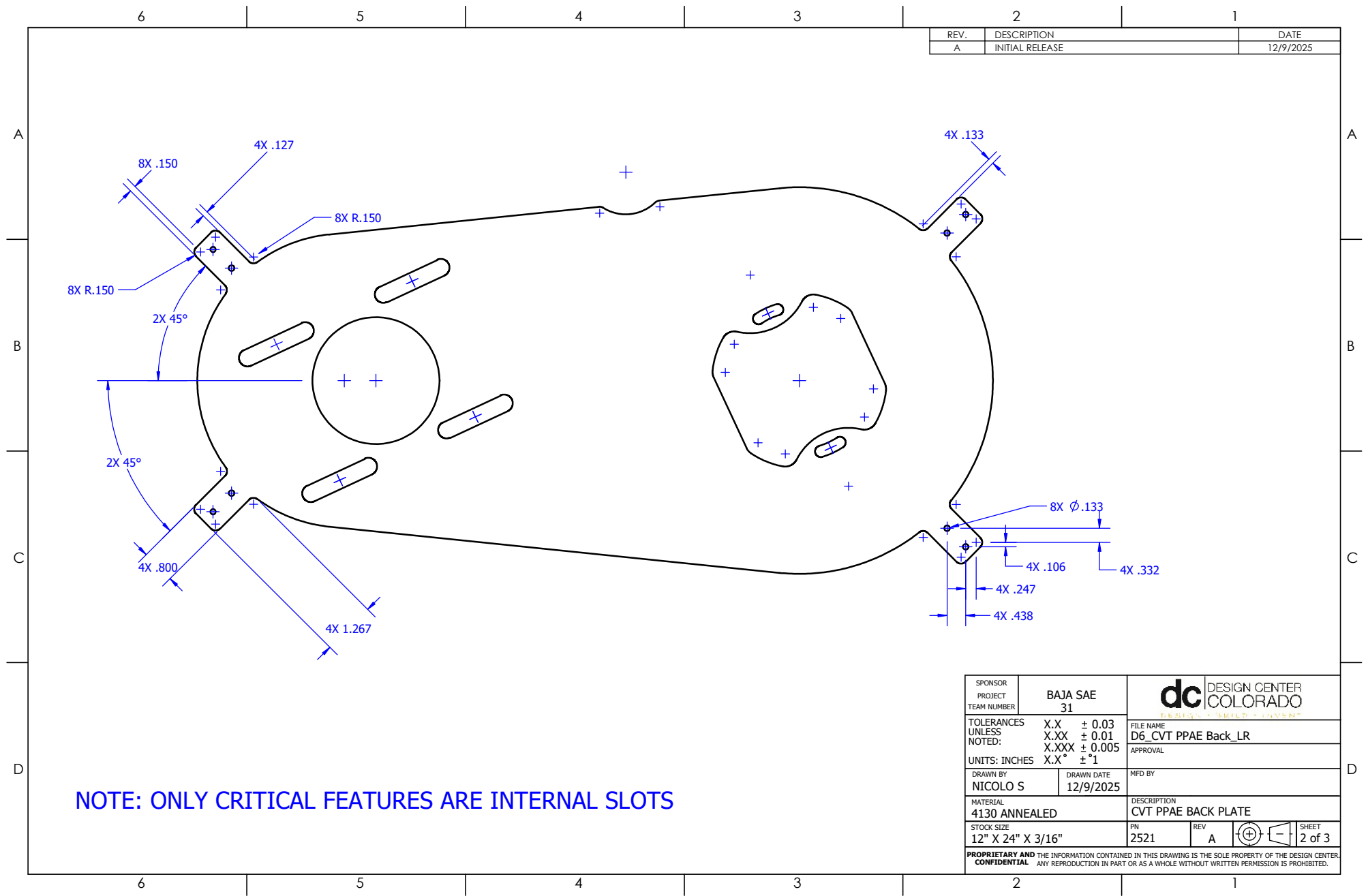


REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2521	BACKPLATE	1
2	1685A22	RUBBER DRAW LATCH	4
3	90044A254	5-44 UNF STEEL SOCKET HEAD SCREWS	8
4	90480A165	LOW-STRENGTH STEEL HEX NUT	8

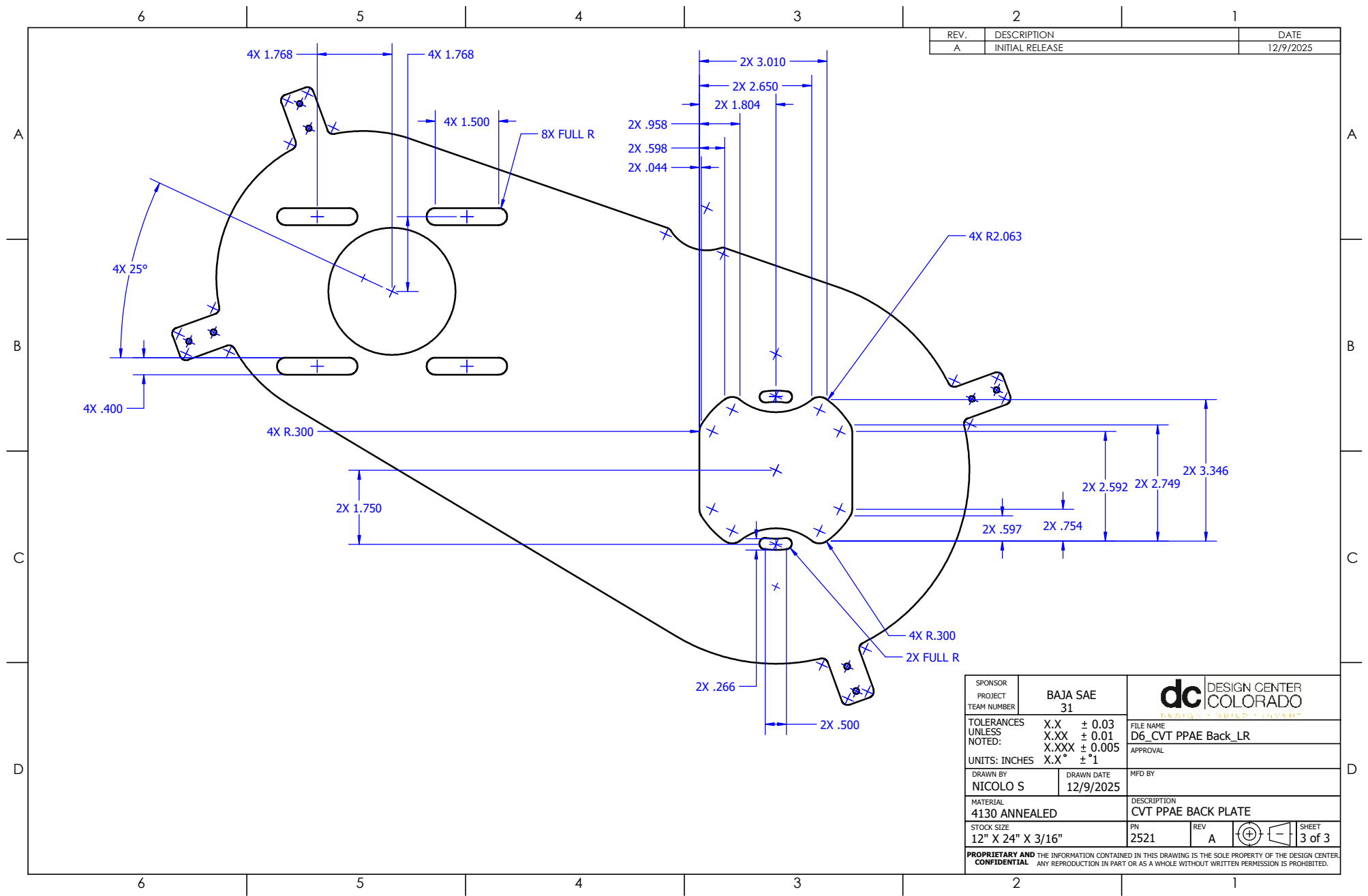
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME D6 BACKPLATE					
DRAWN BY NICOLO S		DRAWN DATE 12/13/2025		DESCRIPTION CVT COVER BACKPLATE SUBASSEMBLY	
APPROVAL		PN 252		REV	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					





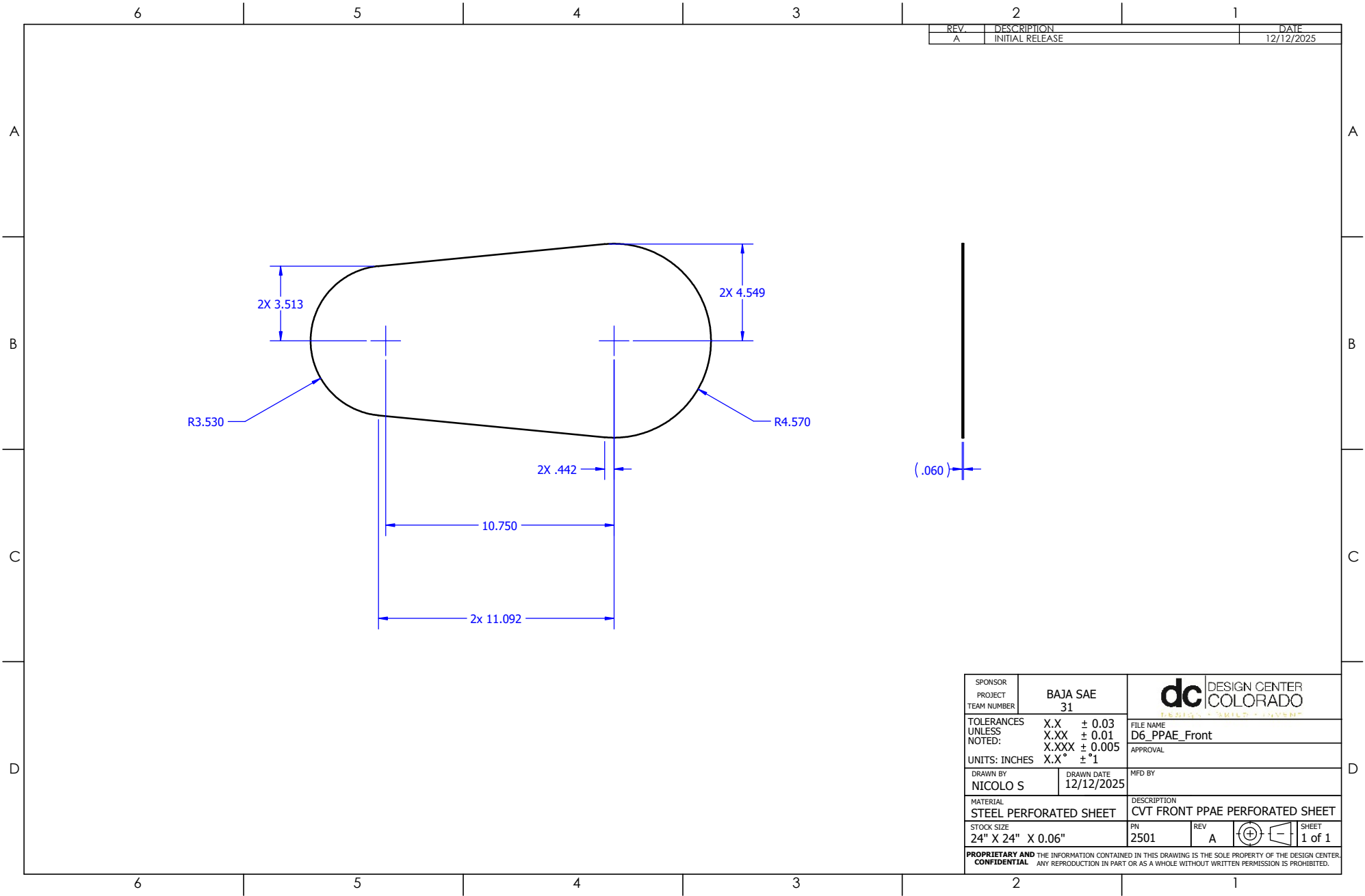
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO
TOLERANCES UNLESS NOTED:	X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X" ± .1	FILE NAME D6_CVT PPAA Back_LR
UNITS: INCHES		APPROVAL
DRAWN BY NICOL S	DRAWN DATE 12/9/2025	MFD BY
MATERIAL 4130 ANNEALED	DESCRIPTION CVT PPAA BACK PLATE	
STOCK SIZE 12" X 24" X 3/16"	PN 2521	REV A
PROPRIETARY AND THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. CONFIDENTIAL ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.		SHEET 2 of 3



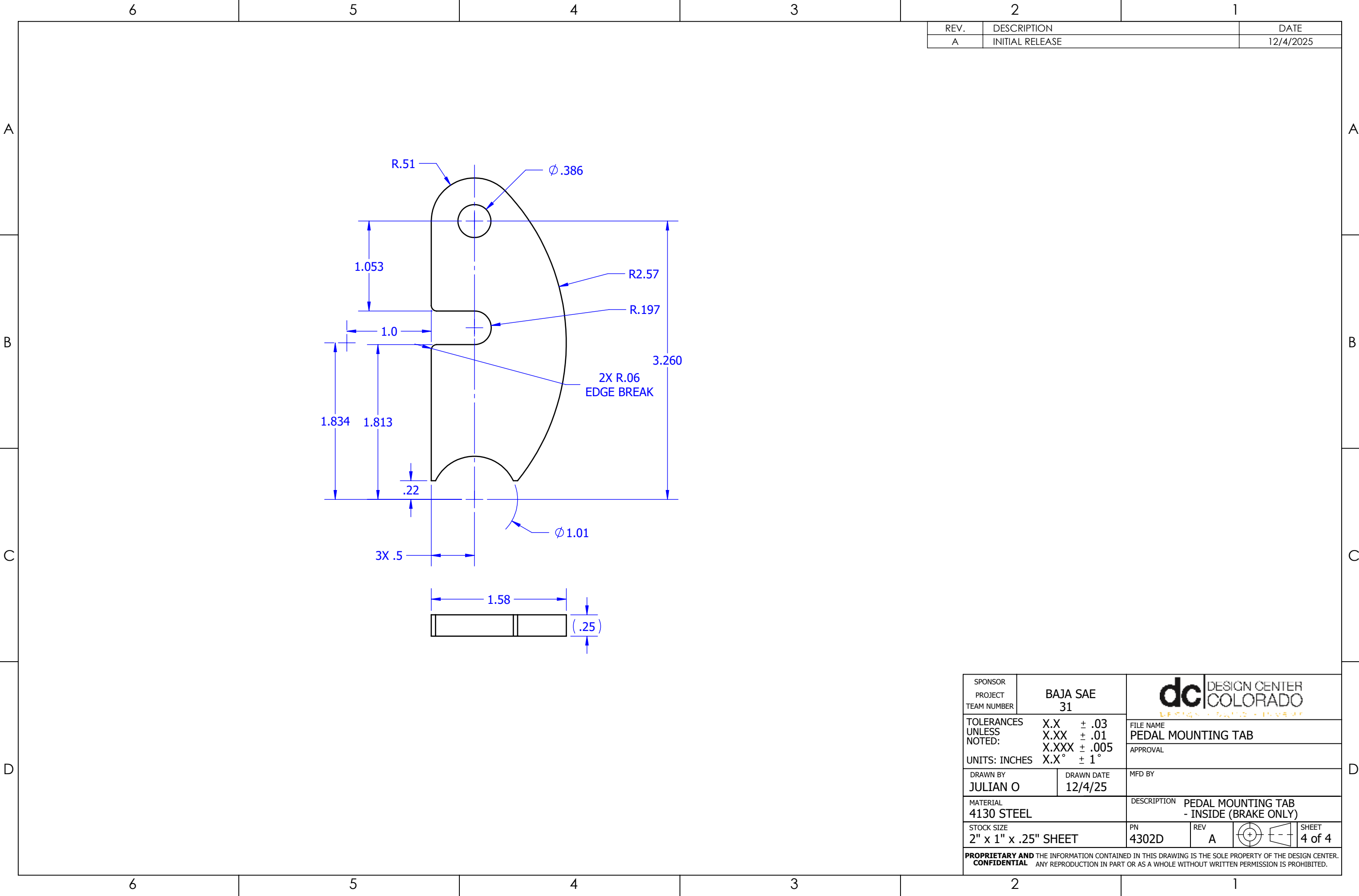
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

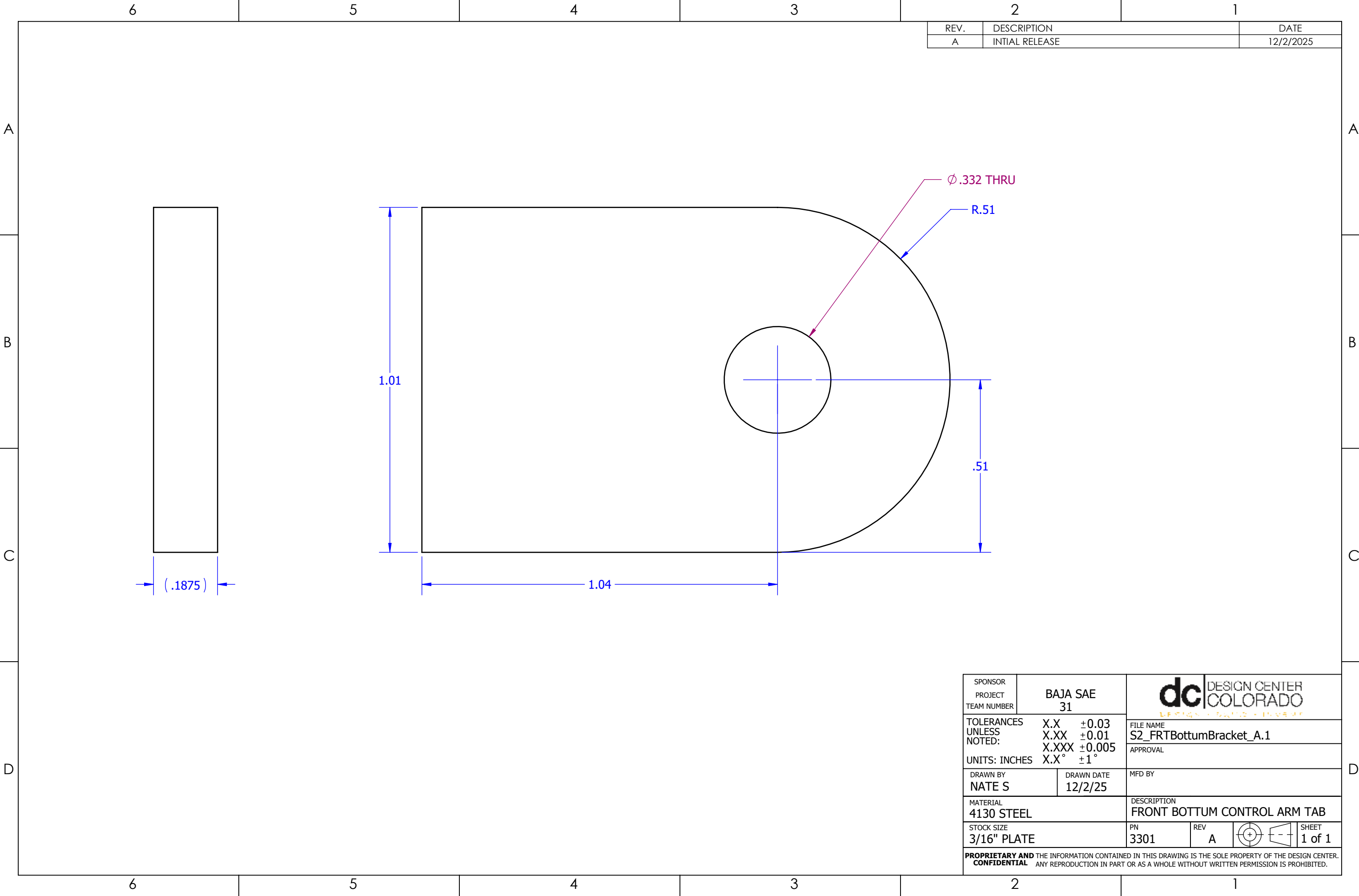
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO
TOLERANCES UNLESS NOTED:	X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X" ± .1	FILE NAME D6_CVT PPAA Back_LR
UNITS: INCHES		APPROVAL
DRAWN BY NICOLO S	DRAWN DATE 12/9/2025	MFD BY
MATERIAL 4130 ANNEALED	DESCRIPTION CVT PPAA BACK PLATE	
STOCK SIZE 12" X 24" X 3/16"	PN 2521	REV A
PROPRIETARY AND THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. CONFIDENTIAL ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.		SHEET 3 of 3

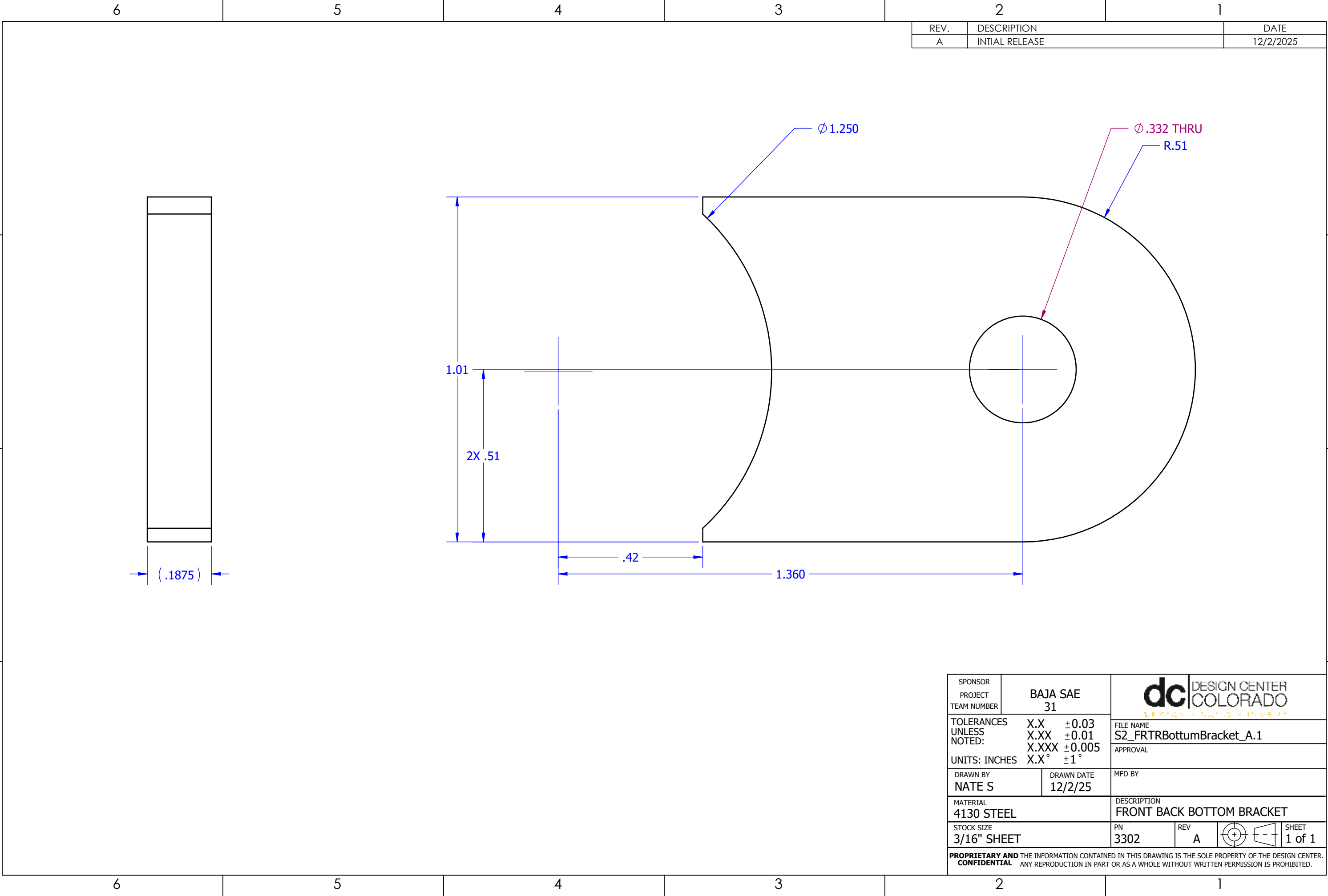


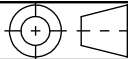
REV	DESCRIPTION	DATE
A	INITIAL RELEASE	12/12/2025

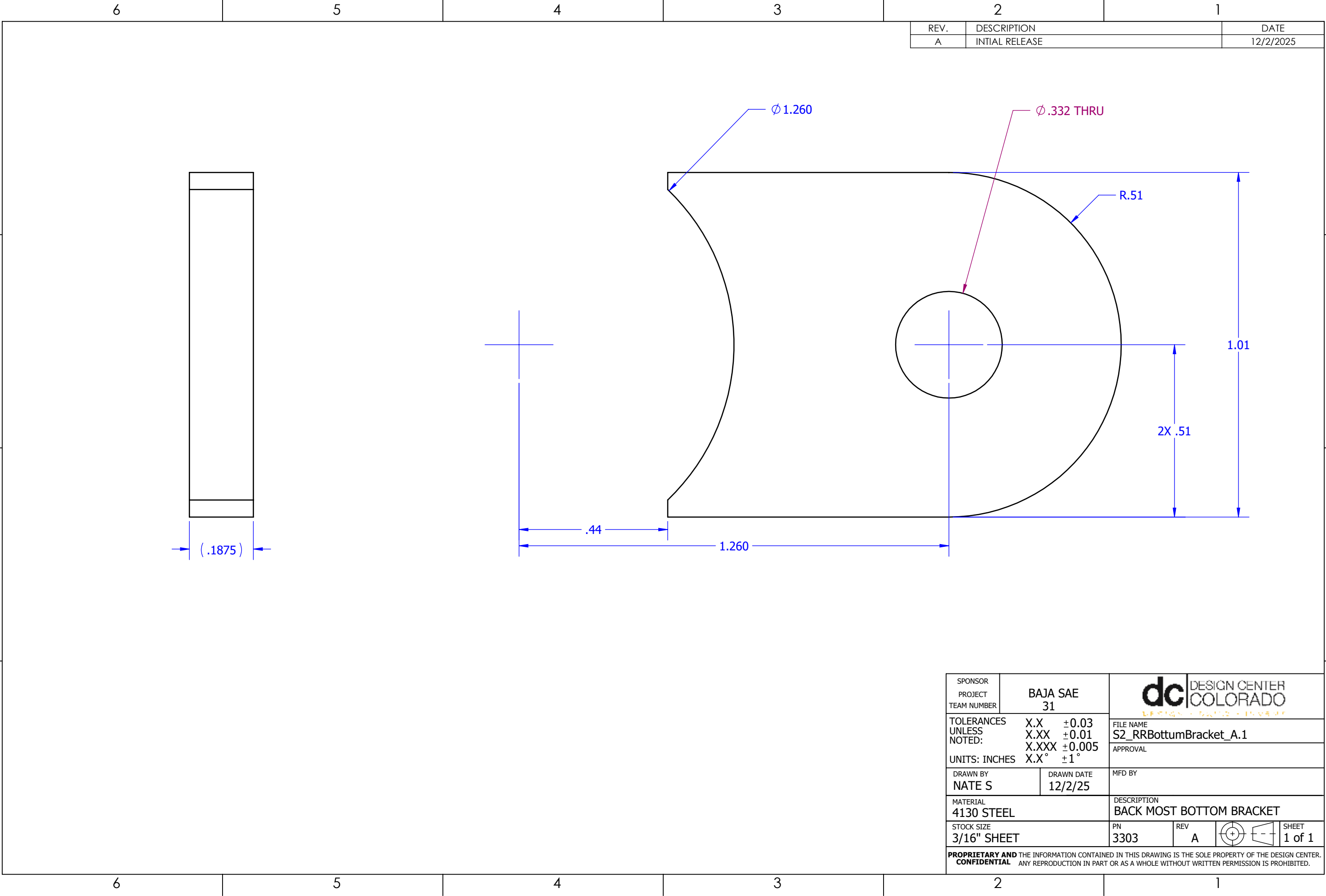
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO
TOLERANCES UNLESS NOTED: UNITS: INCHES	X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X" ± .1	FILE NAME D6_PPAE_Front APPROVAL
DRAWN BY NICOLO S	DRAWN DATE 12/12/2025	MFD BY
MATERIAL STEEL PERFORATED SHEET	DESCRIPTION CVT FRONT PPAE PERFORATED SHEET	
STOCK SIZE 24" X 24" X 0.06"	PN 2501	REV A
PROPRIETARY AND THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. CONFIDENTIAL ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.		 SHEET 1 of 1



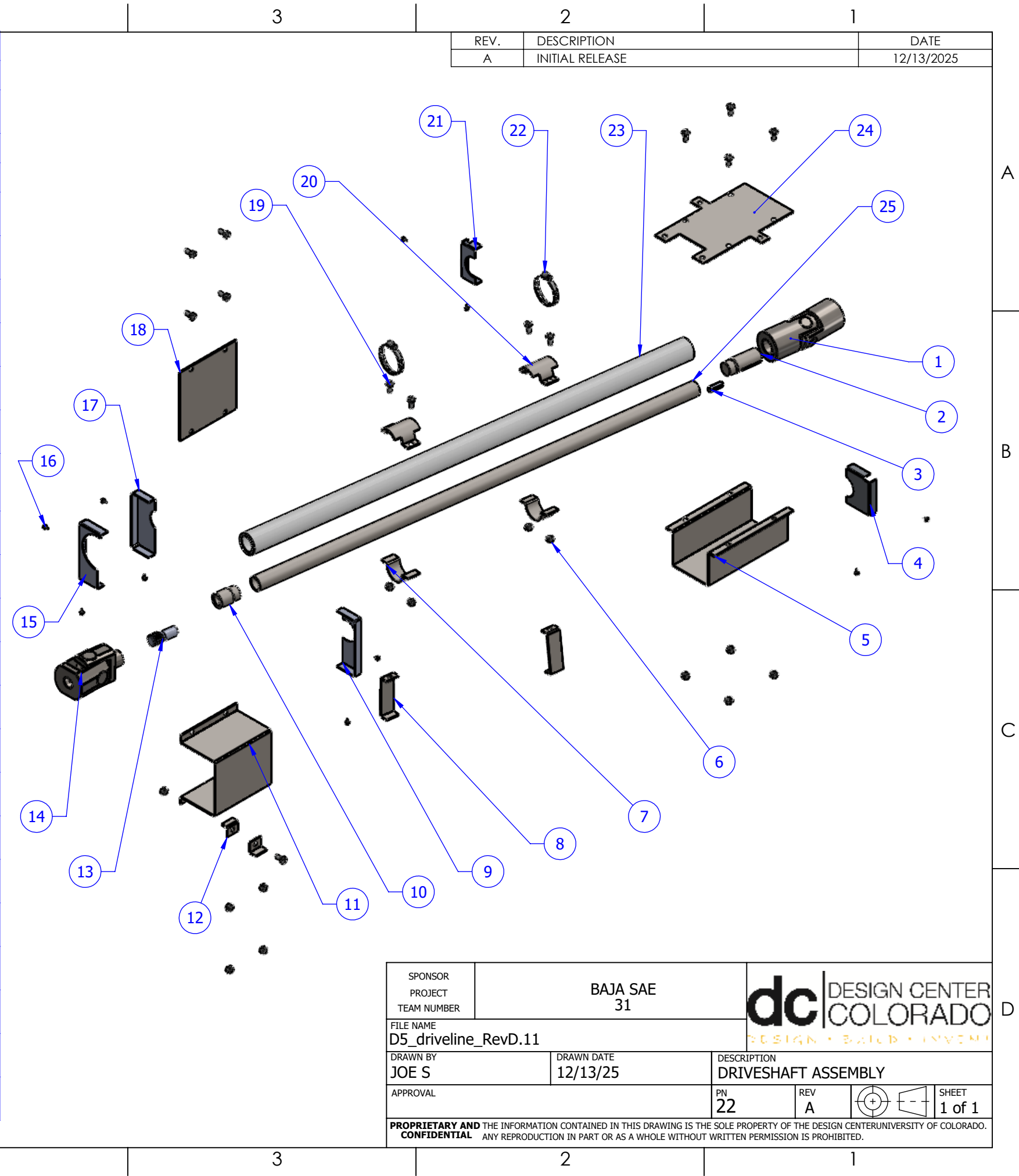




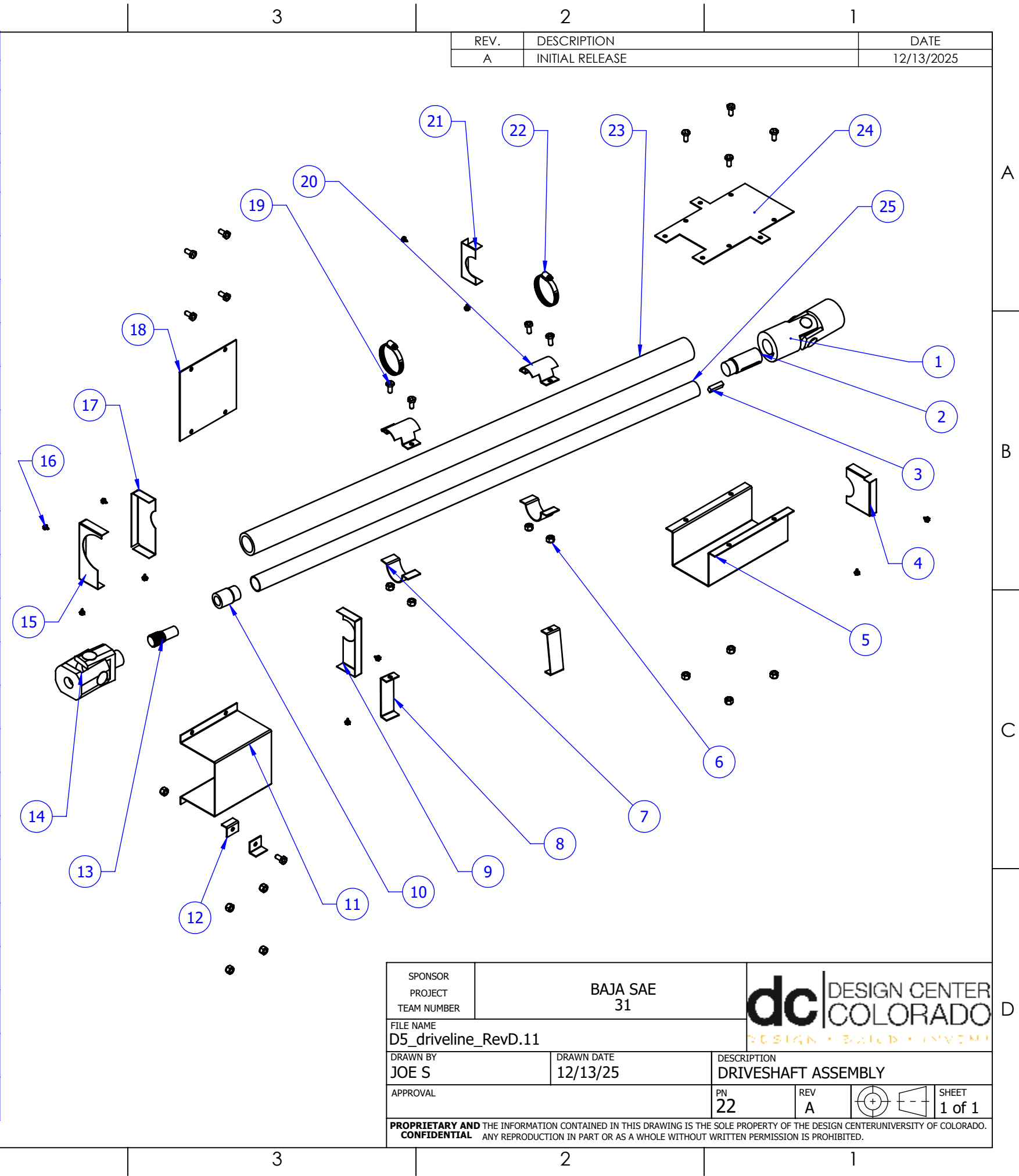
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • IMPROVE	
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 UNITS: INCHES X.X° ±1°		FILE NAME S2_FRTRBottomBracket_A.1	
				APPROVAL	
DRAWN BY NATE S		DRAWN DATE 12/2/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION FRONT BACK BOTTOM BRACKET	
STOCK SIZE 3/16" SHEET		PN 3302		REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



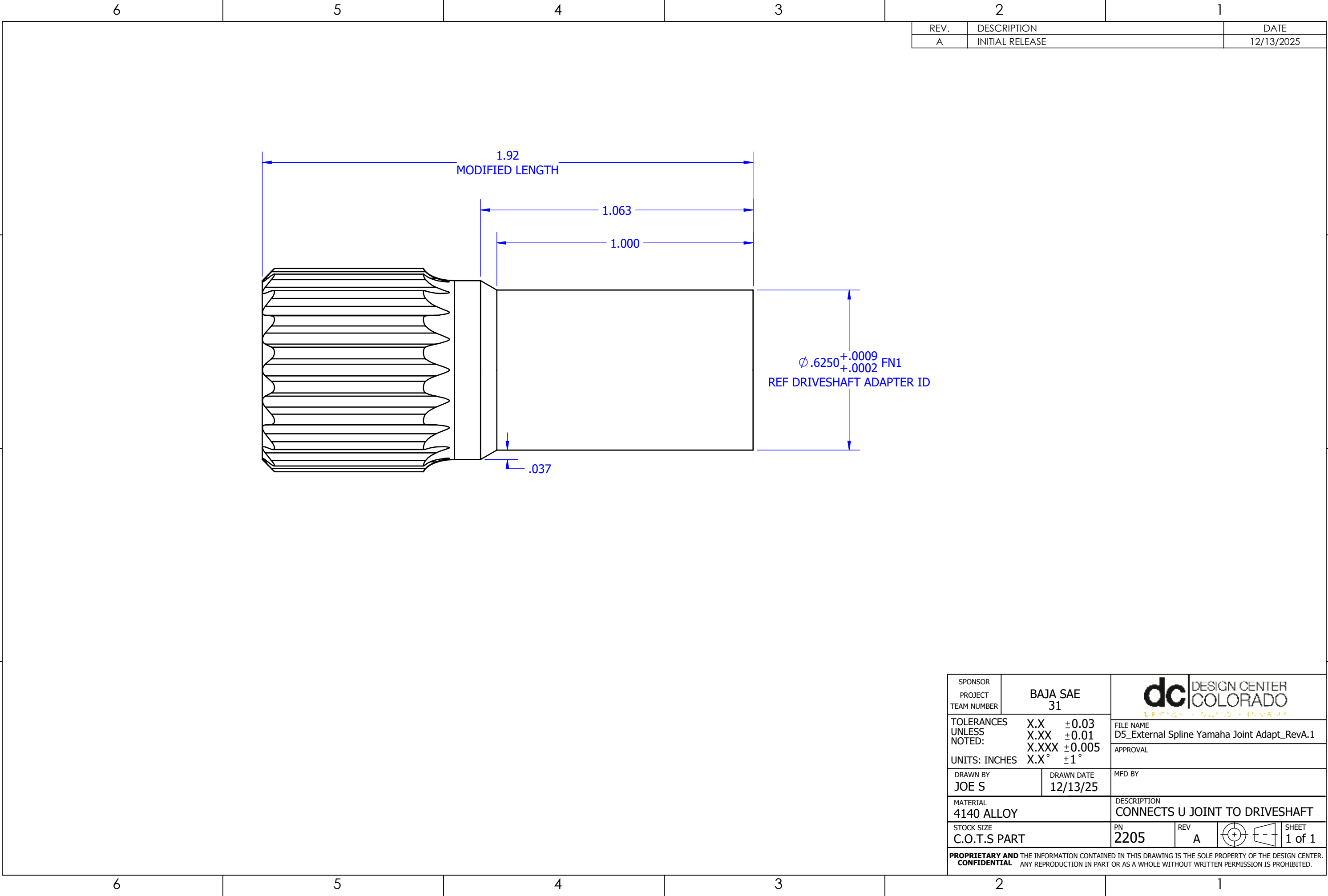
				6	5	4	3	2	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.						
1	UJ-NB2000X1000	BELDEN UNIVERSAL JOINT	1						
2	2202	BELDEN UNIVERSAL JOINT DRIVESHAFT ADAPTER	1						
3	98830A529	BELDEN UNIVERSAL JOINT KEY	1						
4	2402	BELDEN HROE RIGHT PPAE COVER	1						
5	2302	BELDEN UNIVERSAL JOINT HROE PERIPHERY COVER	1						
6	90630A110	GRADE 8 1/4"- 20 LOCKNUT	13						
7	2304	SAFETY HOOP BOTTOM COVER	2						
8	2305	SAFETY HOOP SUPPORT BRACKET	2						
9	2404	YAMAHA HROE LEFT PPAE COVER	1						
10	2204	YAMAHA SPLINE DRIVESHAFT ADAPTER	1						
11	2307	YAMAHA UNIVERSAL JOINT HROE PERIPHERY COVER	1						
12	2308	YAMAHA HROE COVER SUPPORT BRACKET	2						
13	2205	MODIFIED YAMAHA MALE SPLINE	1						
14	N/A	YAMAHA UNIVERSAL JOINT	1						
15	2403	YAMAHA HROE BACK PPAE COVER	1						
16	90064A718	HEX HEAD 1/4" No. 2 SELF TAPPING SCREW	9						
17	2405	YAMAHA HROE RIGHT PPAE COVER	1						
18	2306	YAMAHA UNIVERSAL JOINT HROE SIDE PLATE	1						
19	91268A410	GRADE 8 1/4"-20 BOLT	13						
20	2303	SAFETY HOOP TOP COVER	2						
21	2401	BELDEN HROE LEFT PPAE COVER	1						
22	202309386	HOSE CLAMP	2						
23	2406	DRIVESHAFT PPAE COVER	1						
24	2301	BELDEN UNIVERSAL JOINT HROE TOP PLATE	1						
25	2201	DRIVESHAFT	1						

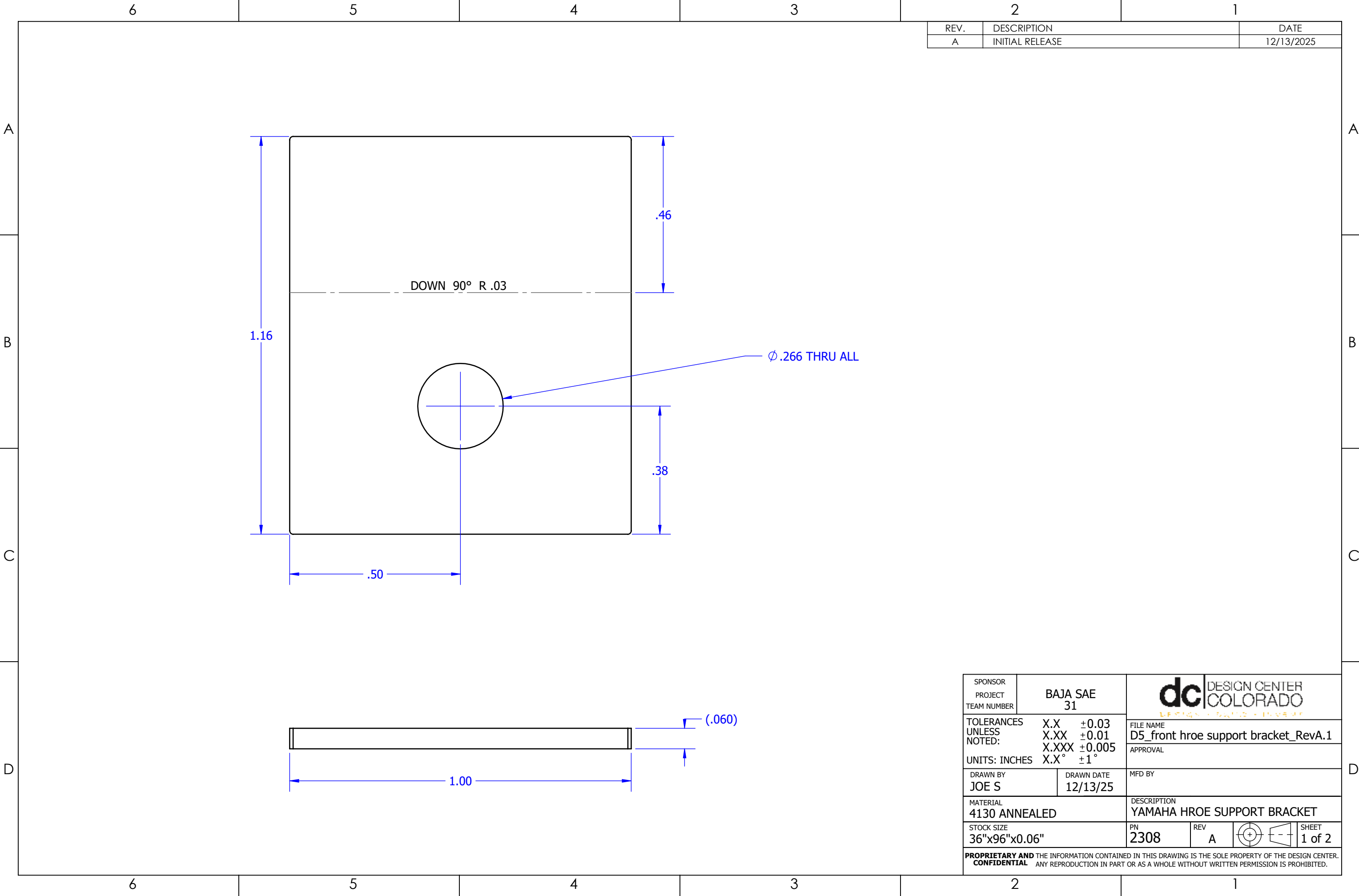


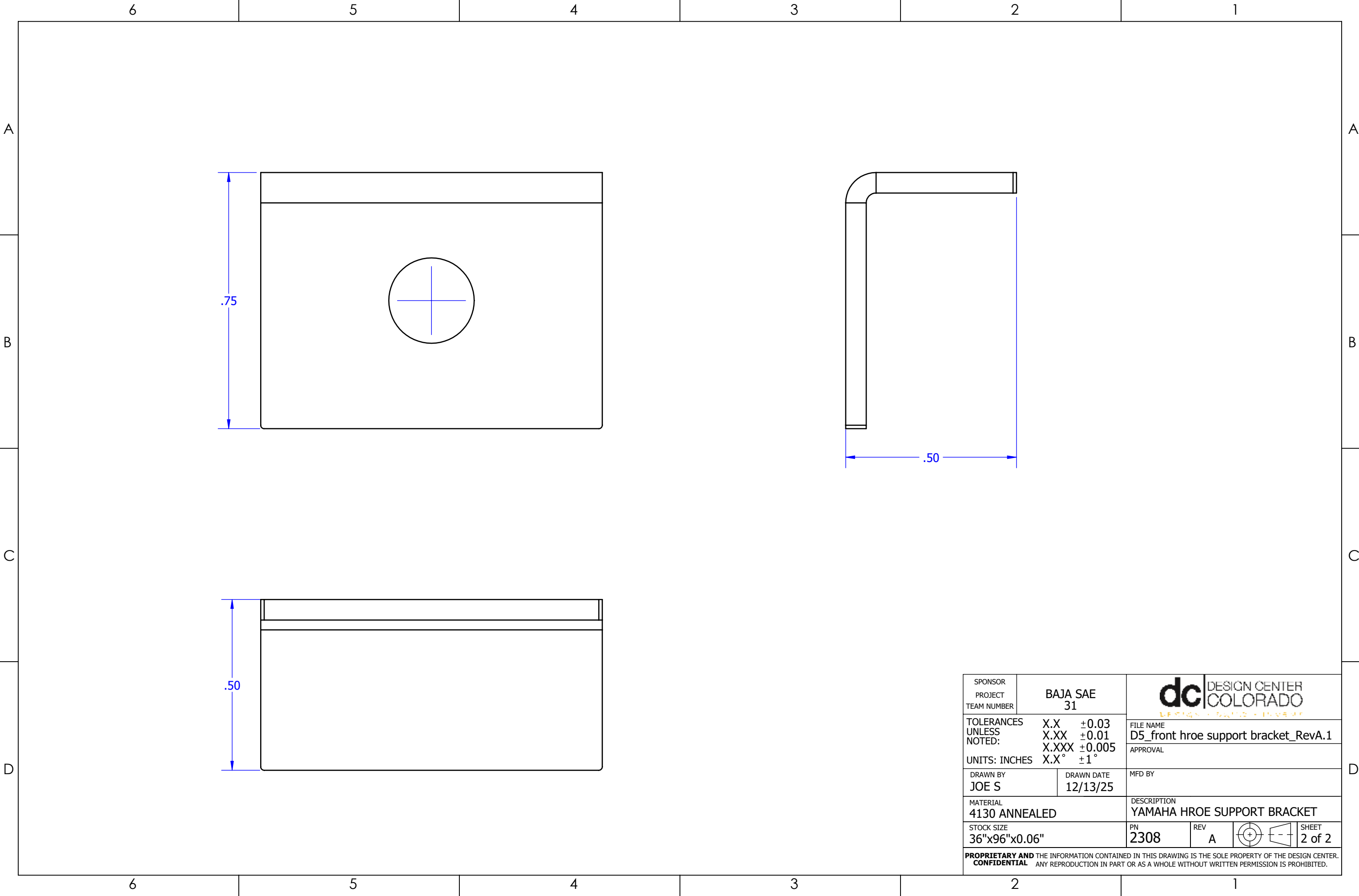
A	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	1	UJ-NB2000X1000	BELDEN UNIVERSAL JOINT	1
	2	2202	BELDEN UNIVERSAL JOINT DRIVESHAFT ADAPTER	1
	3	98830A529	BELDEN UNIVERSAL JOINT KEY	1
	4	2402	BELDEN HROE RIGHT PPAE COVER	1
	5	2302	BELDEN UNIVERSAL JOINT HROE PERIPHERY COVER	1
	6	90630A110	GRADE 8 1/4"- 20 LOCKNUT	13
B	7	2304	SAFETY HOOP BOTTOM COVER	2
	8	2305	SAFETY HOOP SUPPORT BRACKET	2
	9	2404	YAMAHA HROE LEFT PPAE COVER	1
	10	2204	YAMAHA SPLINE DRIVESHAFT ADAPTER	1
	11	2307	YAMAHA UNIVERSAL JOINT HROE PERIPHERY COVER	1
	12	2308	YAMAHA HROE COVER SUPPORT BRACKET	2
	13	2205	MODIFIED YAMAHA MALE SPLINE	1
C	14	N/A	YAMAHA UNIVERSAL JOINT	1
	15	2403	YAMAHA HROE BACK PPAE COVER	1
	16	90064A718	HEX HEAD 1/4" No. 2 SELF TAPPING SCREW	9
	17	2405	YAMAHA HROE RIGHT PPAE COVER	1
	18	2306	YAMAHA UNIVERSAL JOINT HROE SIDE PLATE	1
	19	91268A410	GRADE 8 1/4"-20 BOLT	13
	20	2303	SAFETY HOOP TOP COVER	2
D	21	2401	BELDEN HROE LEFT PPAE COVER	1
	22	202309386	HOSE CLAMP	2
	23	2406	DRIVESHAFT PPAE COVER	1
	24	2301	BELDEN UNIVERSAL JOINT HROE TOP PLATE	1
	25	2201	DRIVESHAFT	1

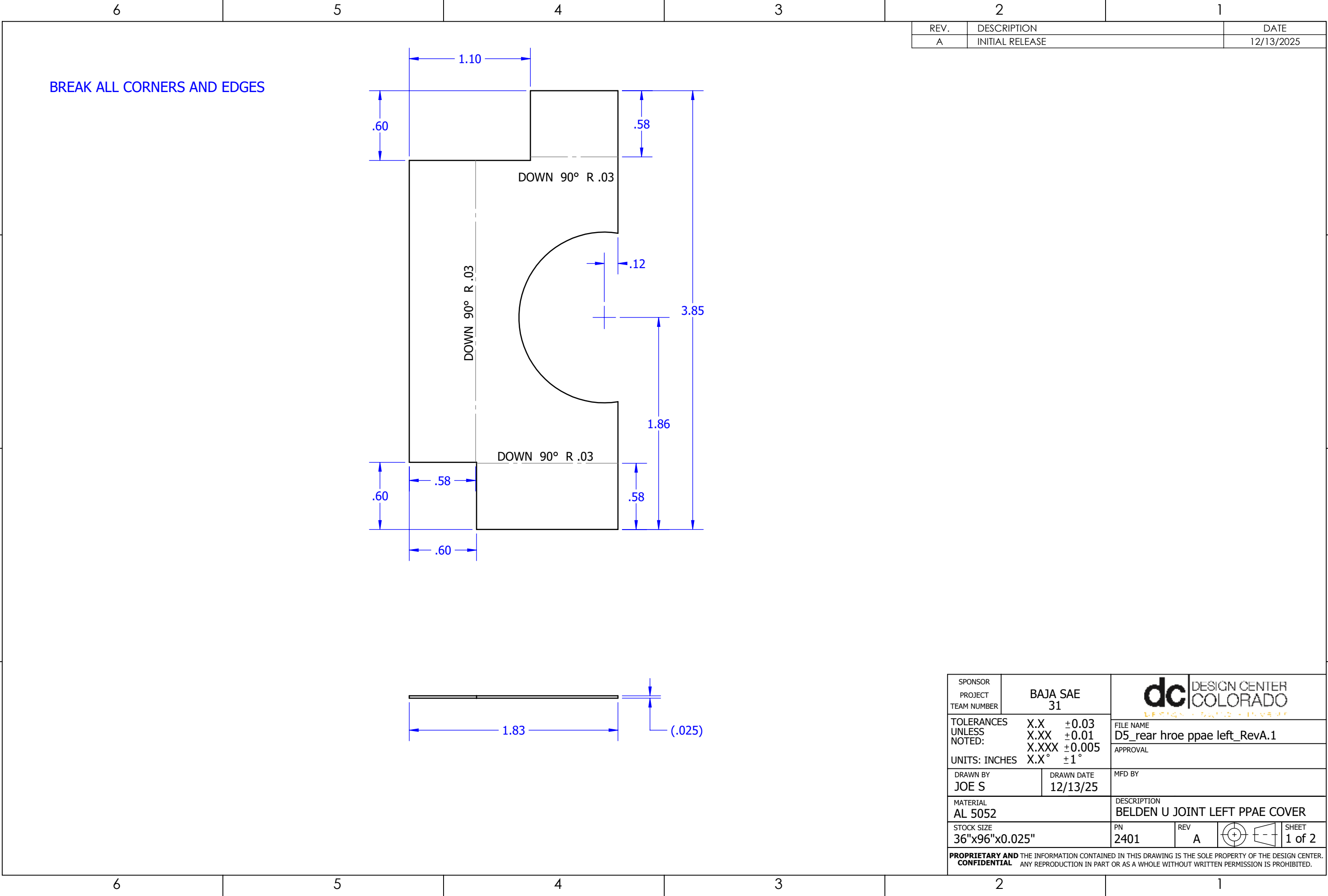


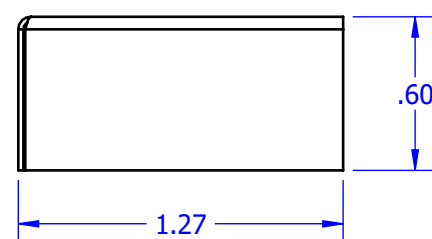
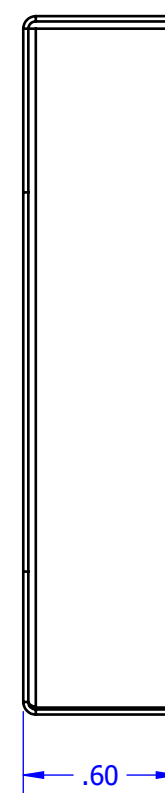
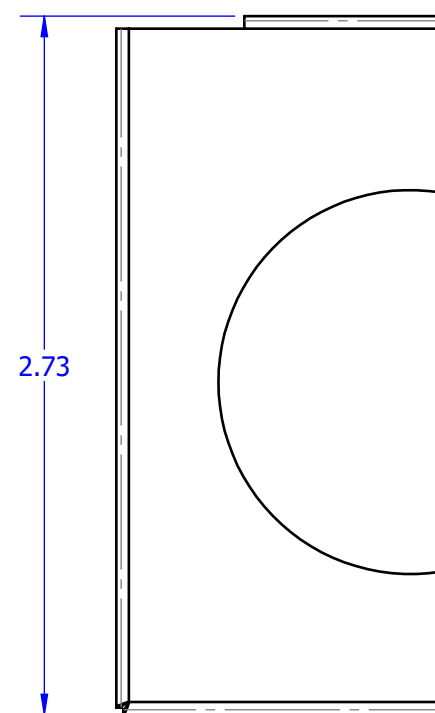
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME D5_driveline_RevD.11					
DRAWN BY JOE S		DRAWN DATE 12/13/25		DESCRIPTION DRIVESHAFT ASSEMBLY	
APPROVAL		PN 22	REV A		SHEET 1 of 1
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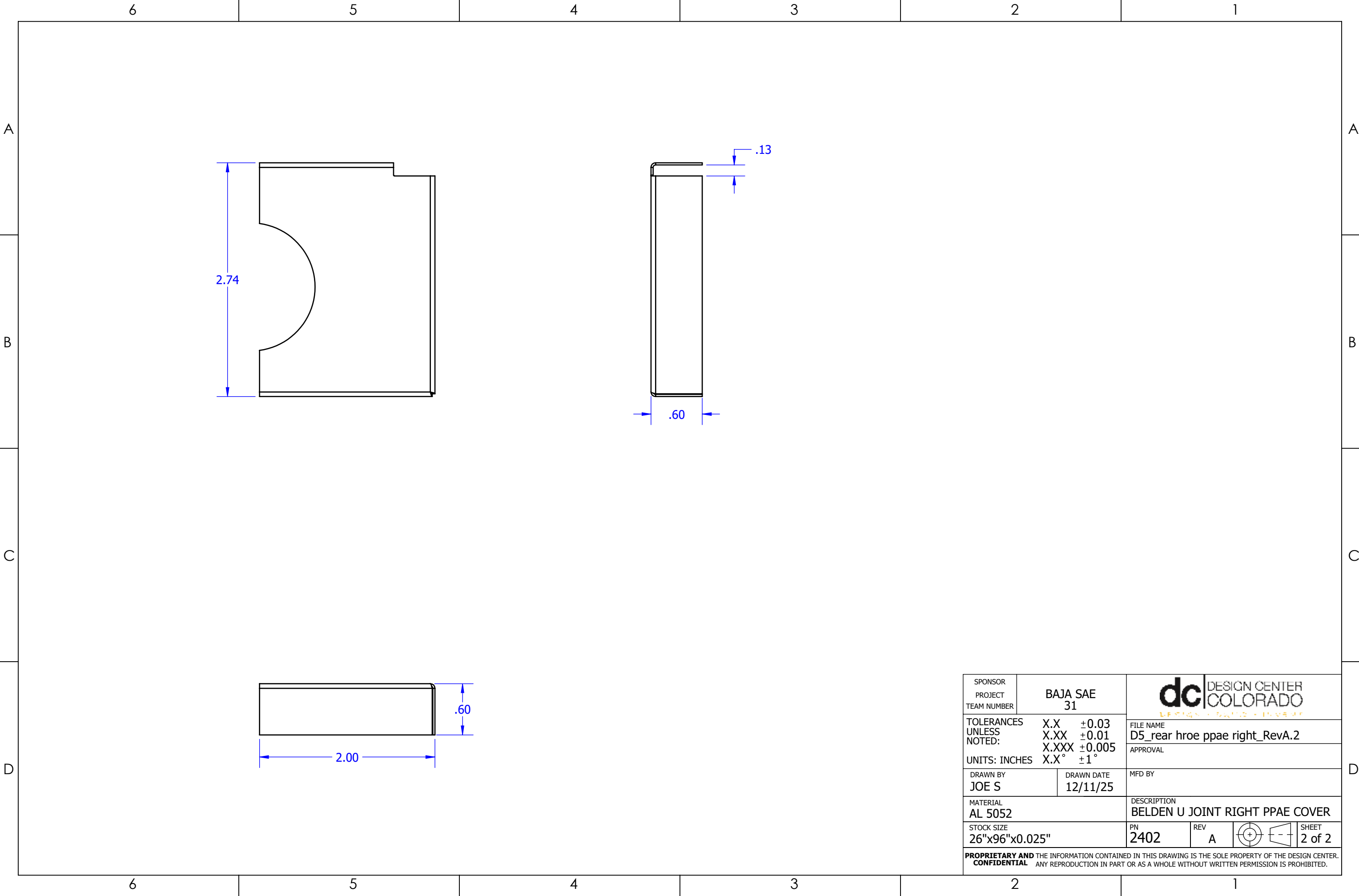




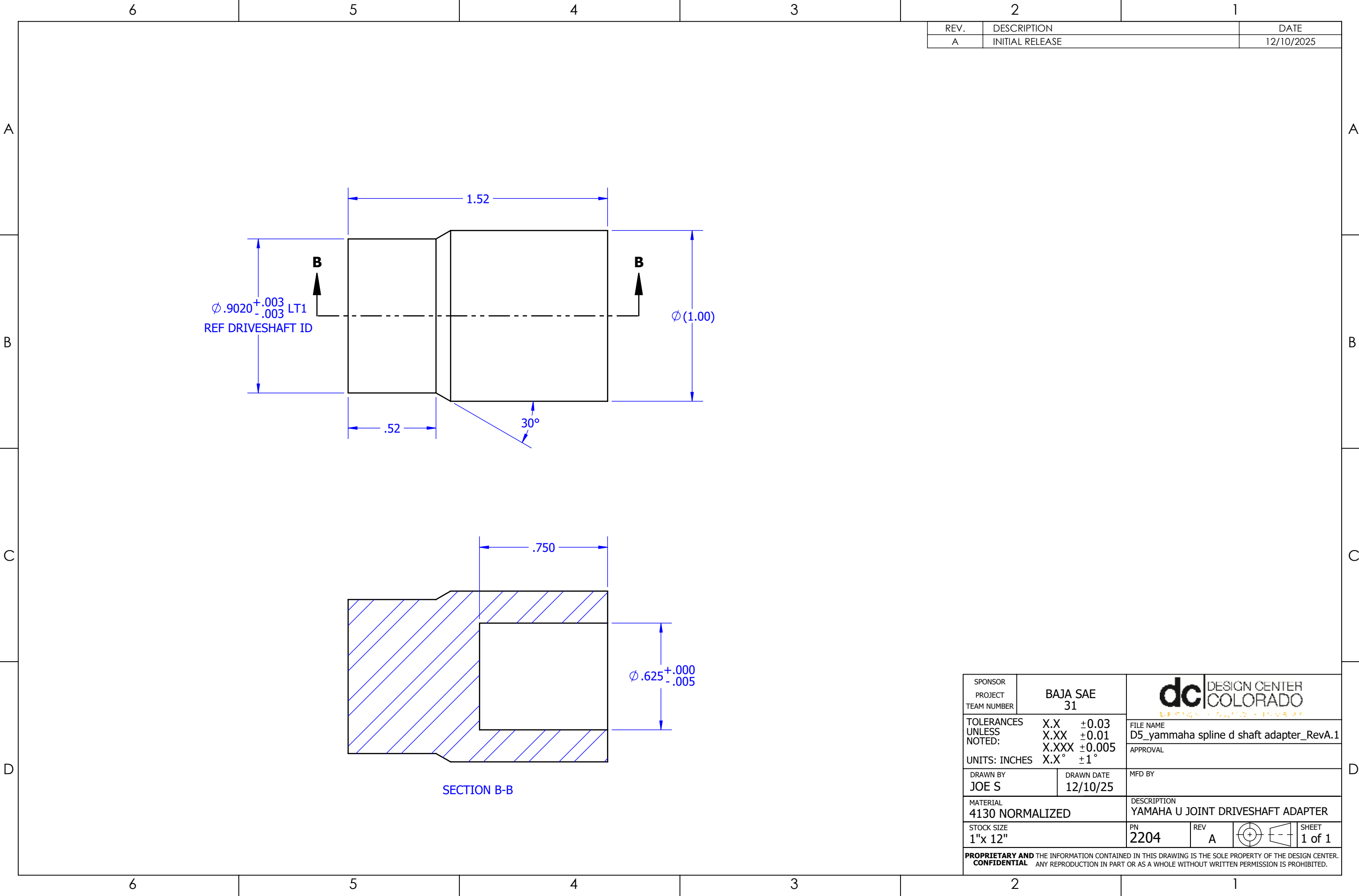




SPONSOR		BAJA SAE 31			
PROJECT TEAM NUMBER				DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 UNITS: INCHES X.X° ±1°		FILE NAME D5_rear hroe ppae left_RevA.1	
		APPROVAL			
DRAWN BY JOE S		DRAWN DATE 12/13/25		MFD BY	
MATERIAL AL 5052		DESCRIPTION BELDEN U JOINT LEFT PPAE COVER			
STOCK SIZE 36"x96"x0.025"		PN 2401	REV A		SHEET 2 of 2
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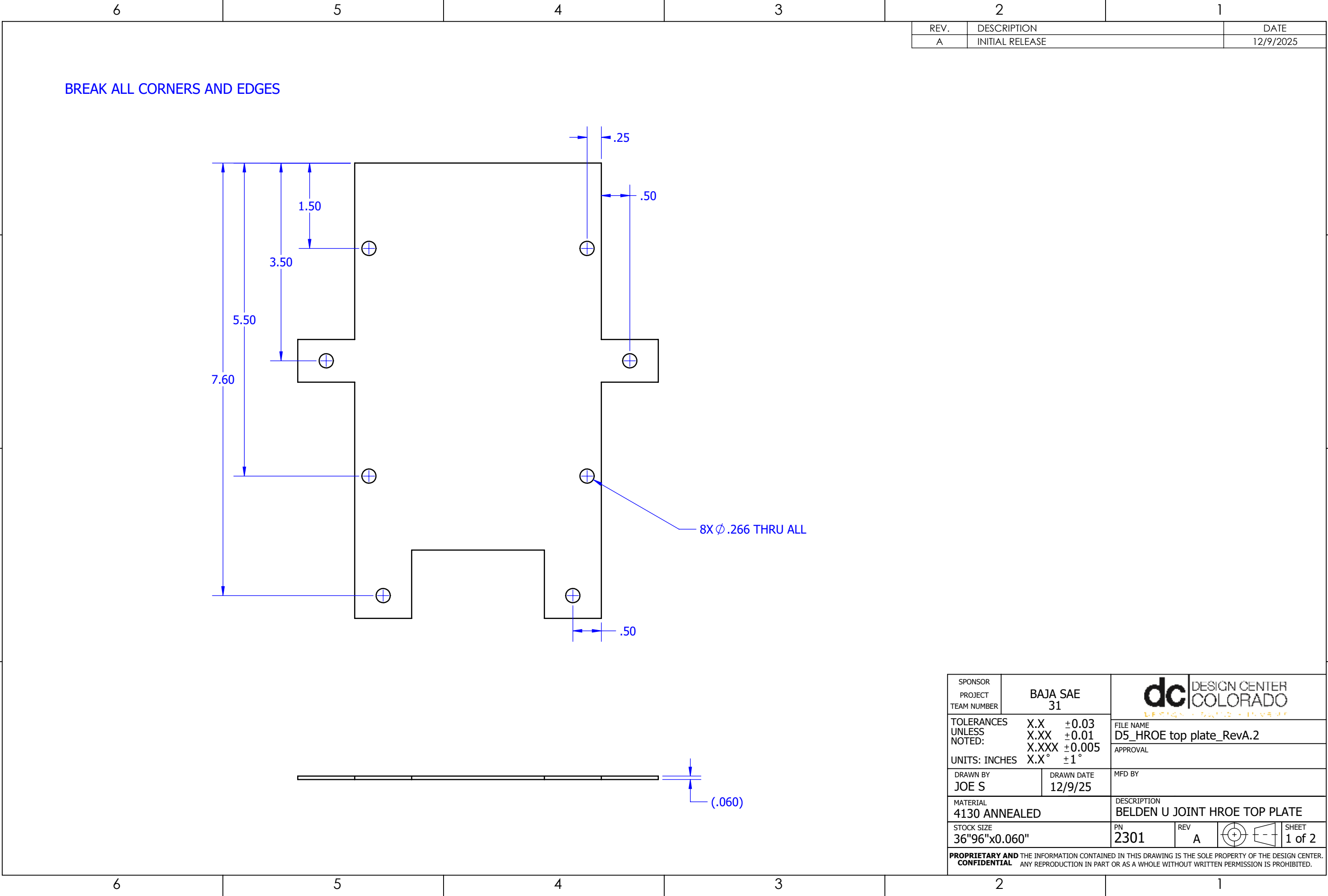


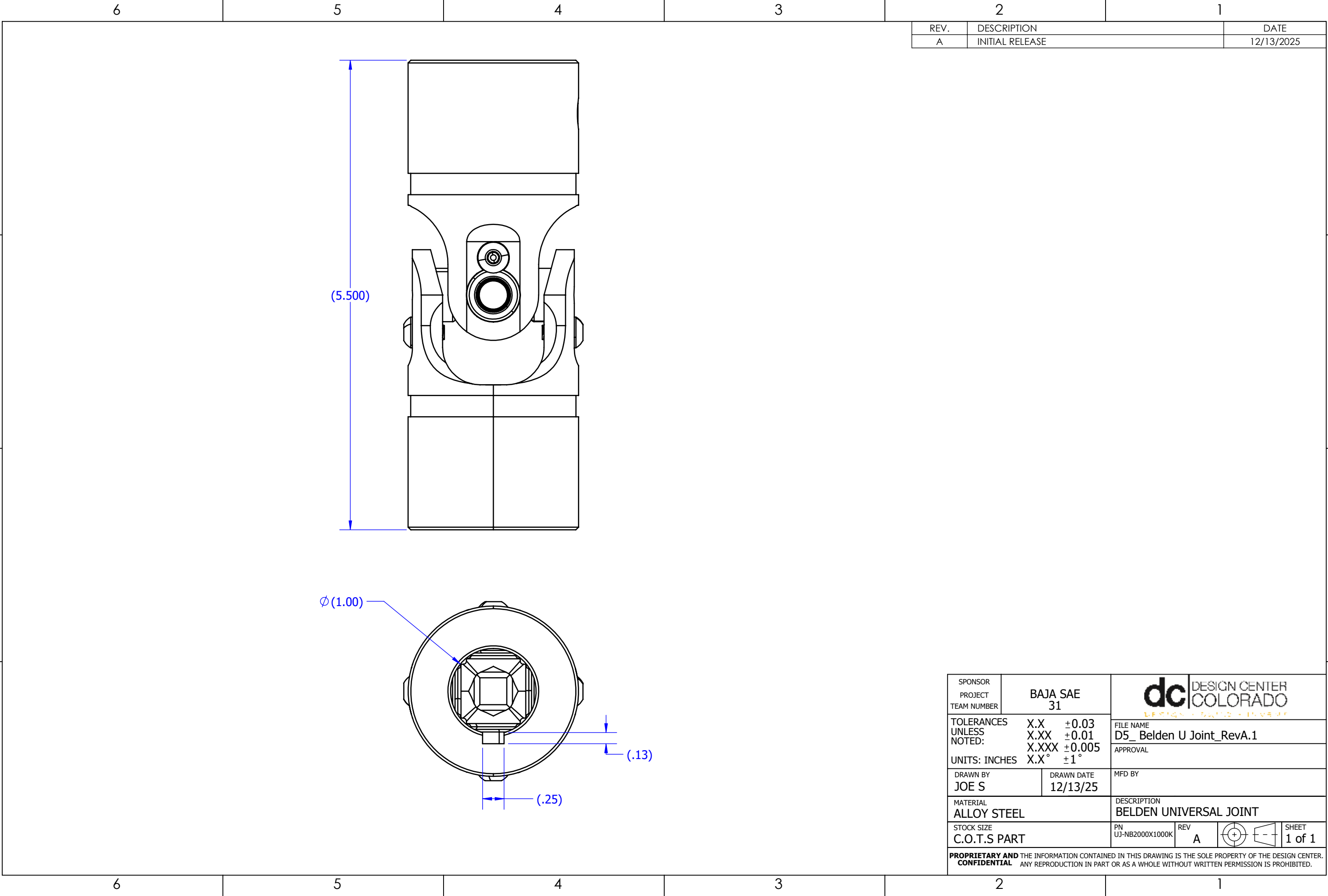
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT			
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005		FILE NAME D5_rear hroe ppae right_RevA.2			
				APPROVAL			
UNITS: INCHES		X.X° ±1°		MFD BY			
DRAWN BY JOE S		DRAWN DATE 12/11/25		DESCRIPTION BELDEN U JOINT RIGHT PPAE COVER			
MATERIAL AL 5052		STOCK SIZE 26"x96"x0.025"		PN 2402	REV A		
PROPRIETARY AND CONFIDENTIAL		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.		SHEET 2 of 2			



REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/10/2025

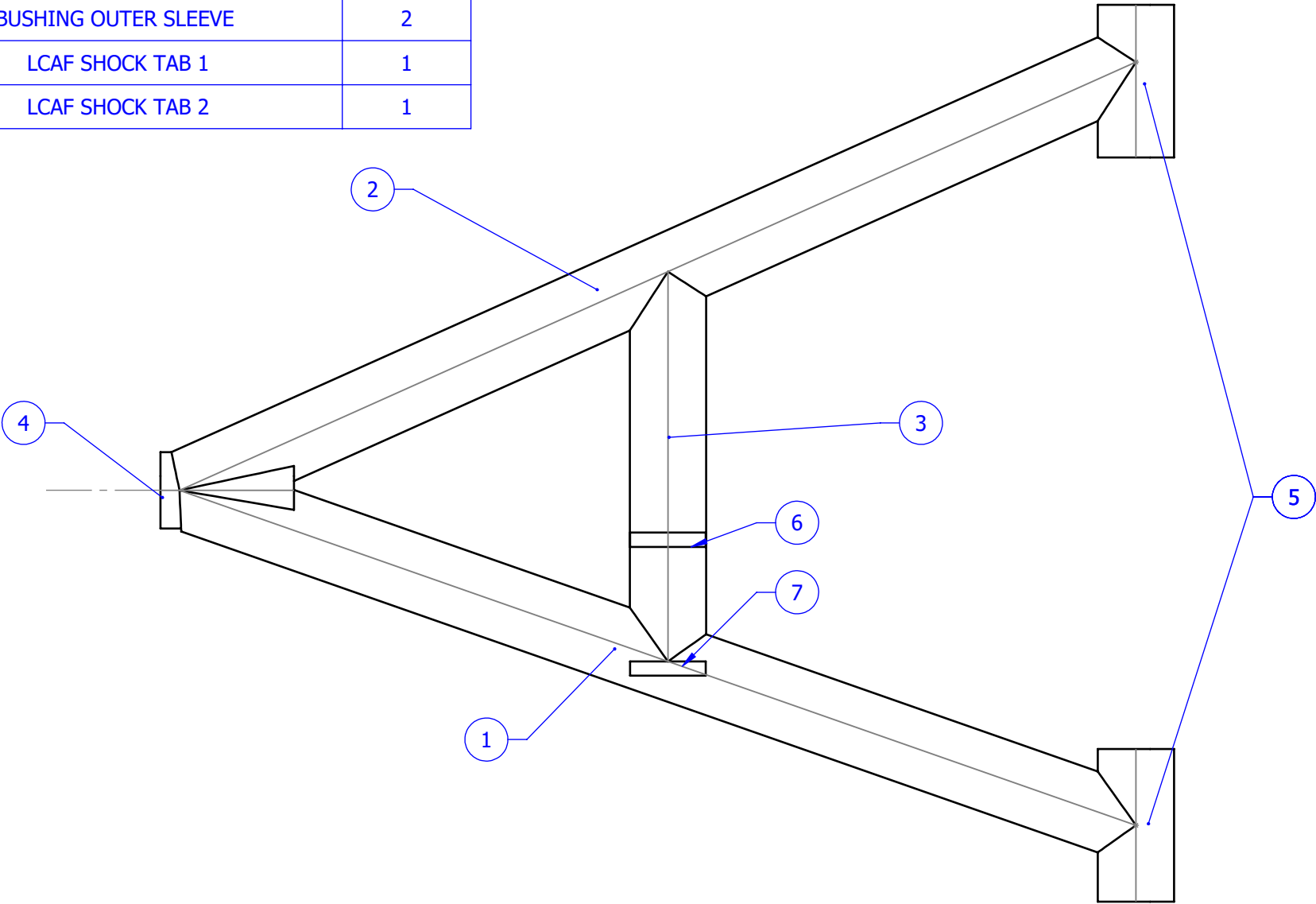
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE		
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005	FILE NAME D5_yamaha spline d shaft adapter_RevA.1	
UNITS: INCHES		X.X° ±1°	APPROVAL	
DRAWN BY JOE S		DRAWN DATE 12/10/25	MFD BY	
MATERIAL 4130 NORMALIZED			DESCRIPTION YAMAHA U JOINT DRIVESHAFT ADAPTER	
STOCK SIZE 1"x 12"			PN 2204	REV A
				SHEET 1 of 1
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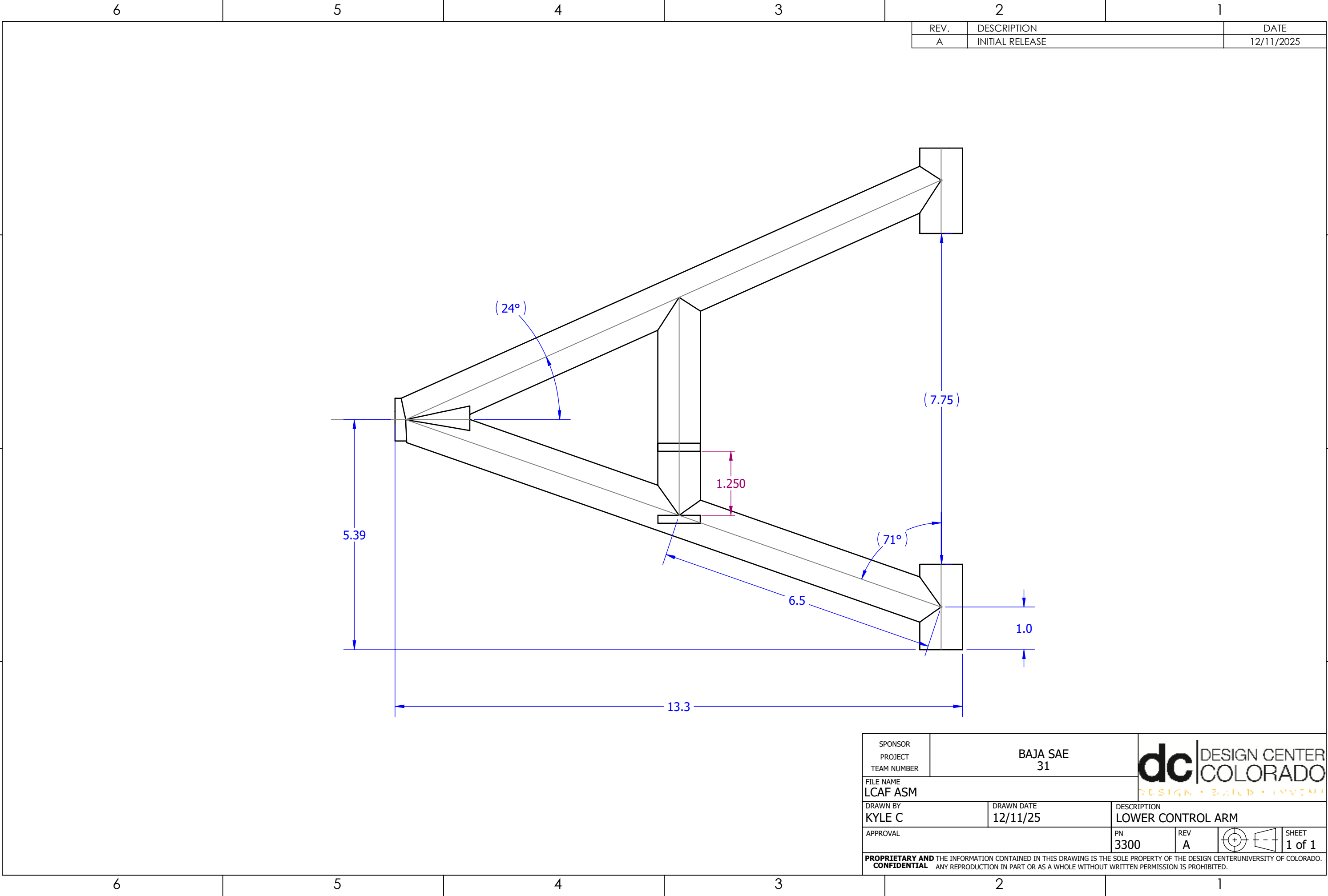


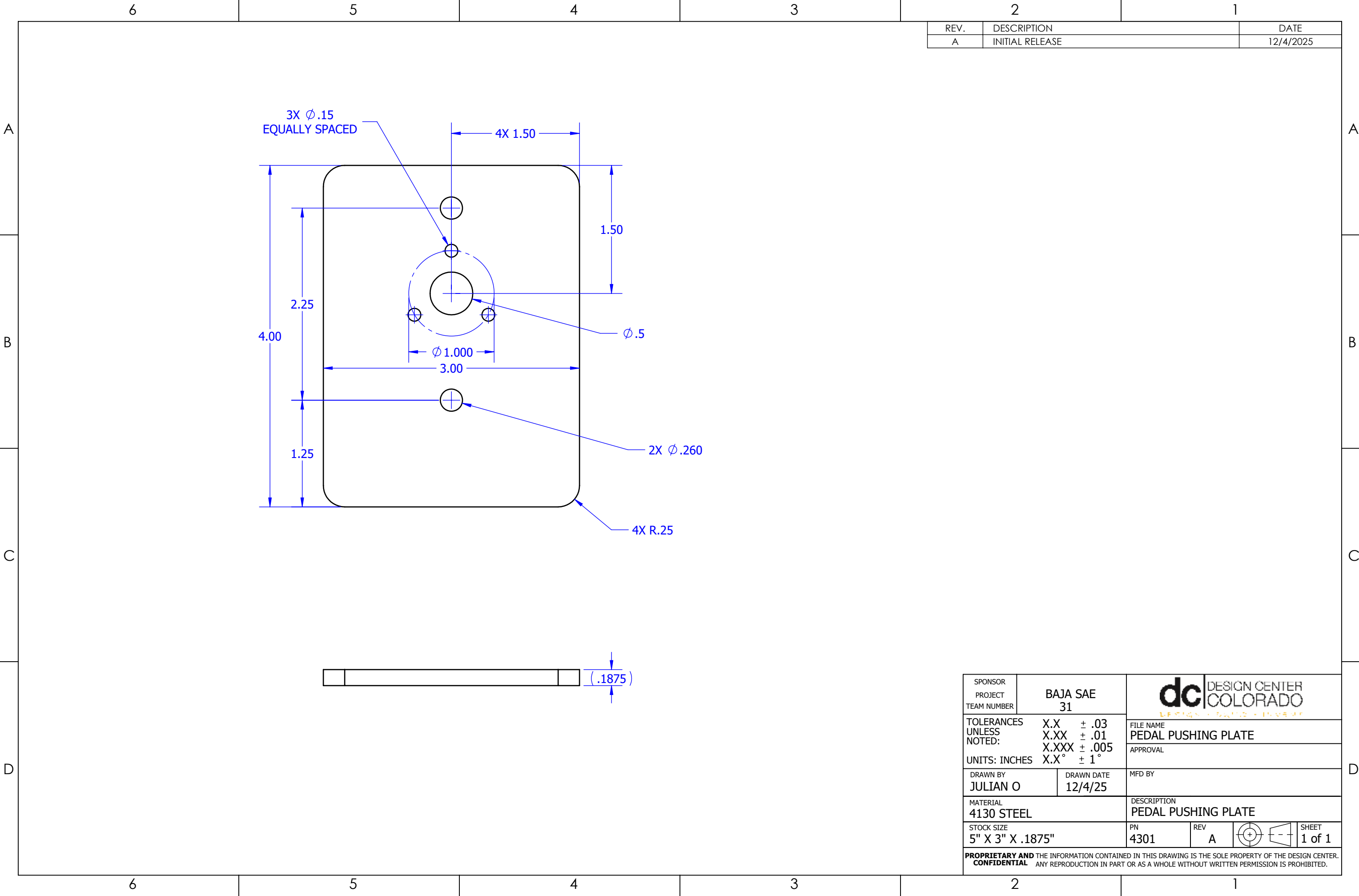
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3310	REAR MEMBER	1
2	3320	FRONT MEMBER	1
3	3330	CROSSMEMBER	1
4	3340	WELDNUT TUBE	1
5	3902	BUSHING OUTER SLEEVE	2
6	3350	LCAF SHOCK TAB 1	1
7	3360	LCAF SHOCK TAB 2	1

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025



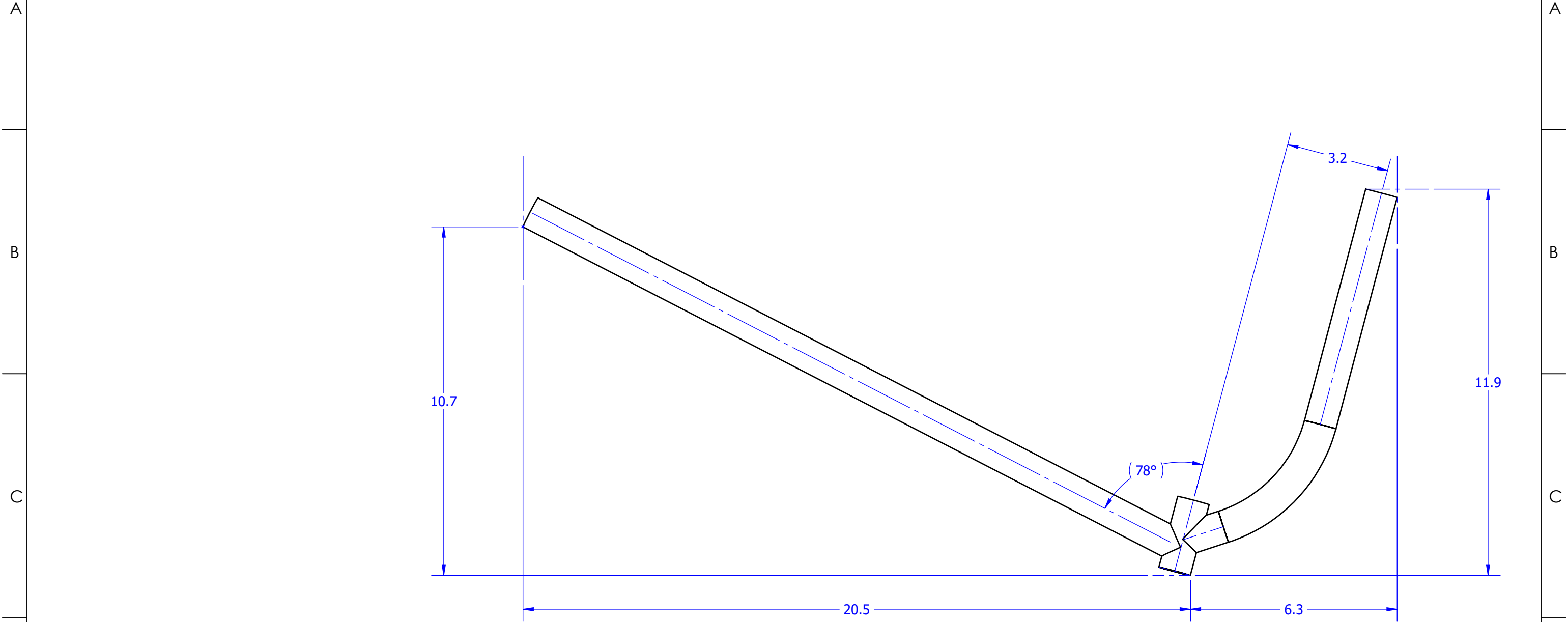
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME LCAF ASM			
DRAWN BY KYLE C	DRAWN DATE 12/11/25	DESCRIPTION LOWER CONTROL ARM	
APPROVAL		PN 3300	REV A
			SHEET 1 of 1
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6		5		4	
ITEM NO.	PART NUMBER	DESCRIPTION		QTY.	
1	3601	REAR LOWER CONTROL ARM MEMBER		1	
2	3602	REAR LOWER CONTROL ARM MEMBER		1	
3	3603	REAR LOWER CONTROL ARM MEMBER		1	

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/25



SPONSOR		BAJA SAE TEAM 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
PROJECT					
TEAM NUMBER					
FILE NAME					
RearLowerControlArm_3600					
DRAWN BY		DRAWN DATE		DESCRIPTION	
NICK G		12/9/25		REAR LOWER CONTROL ARM	
APPROVAL				PN	REV
				3600	A
					
PROPRIETARY AND CONFIDENTIAL				THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
				SHEET 1 of 1	

	6		5		4		3		2		1
ITEM NO.	PART NUMBER		DESCRIPTION			QTY.					
1	3501		REAR UPPER CONTROL ARM MEMBER			1					
2	3502		REAR UPPER CONTROL ARM MEMBER			1					
4	3503		REAR UPPER CONTROL ARM MEMBER			1					
4	3504		REAR UPPER CONTROL ARM MEMBER			1					
6	3505		SHOCK TAB			2					

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025

A

B

C

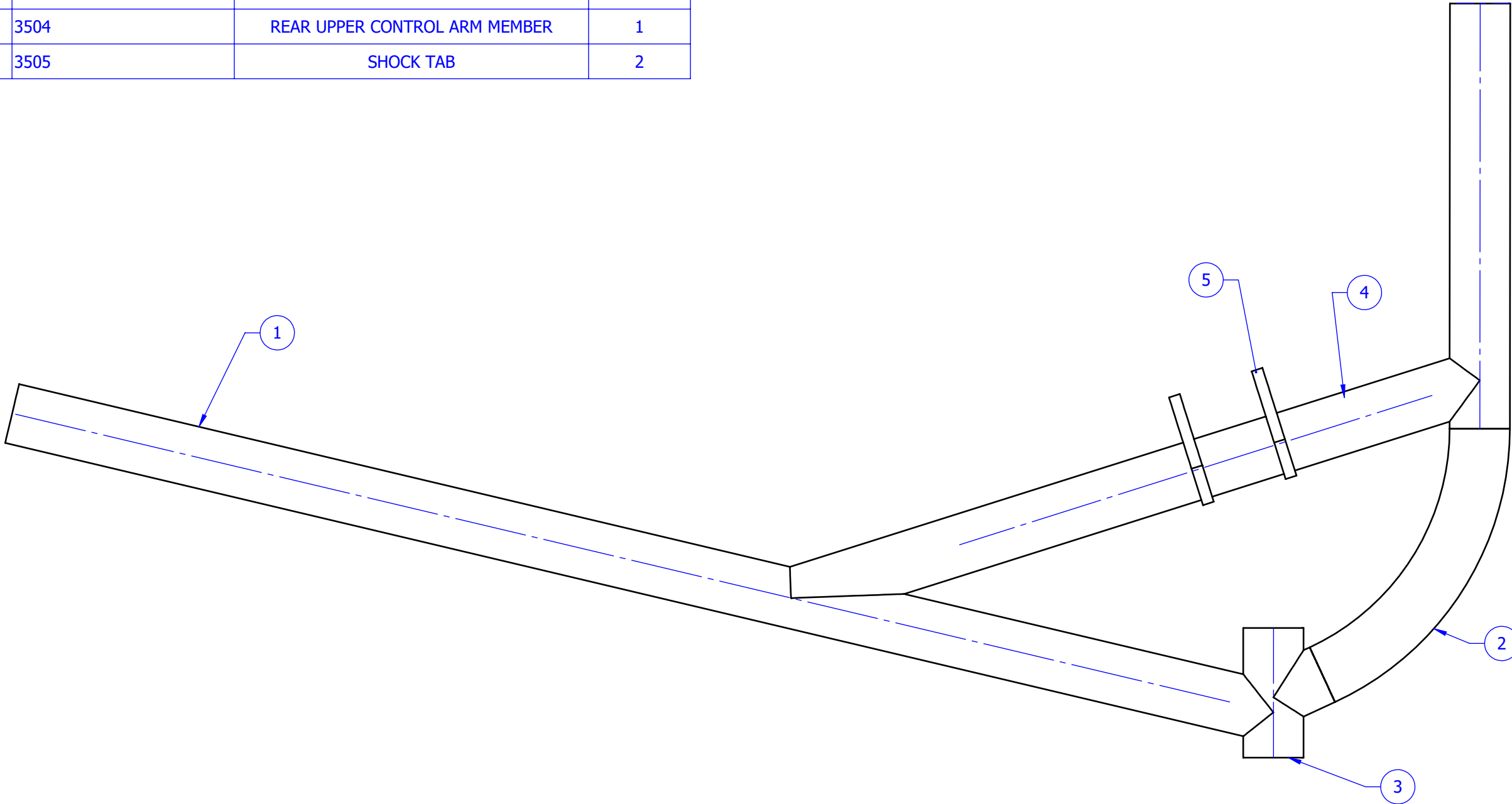
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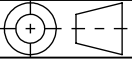
A

B

C

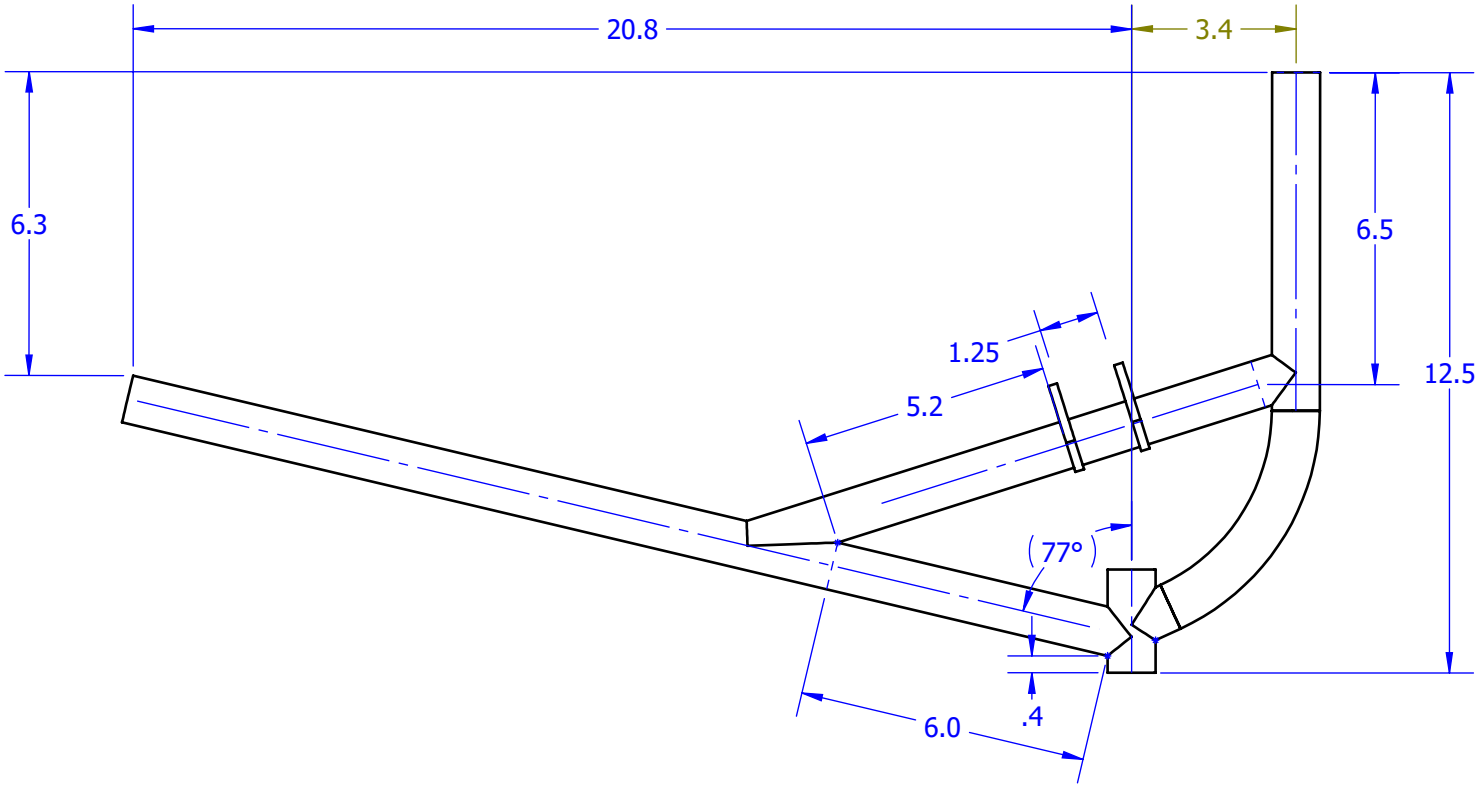
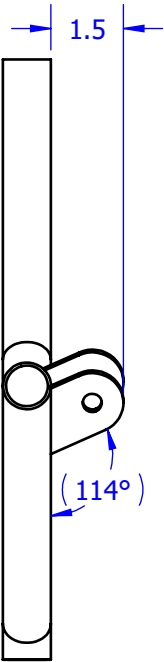
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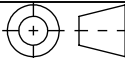


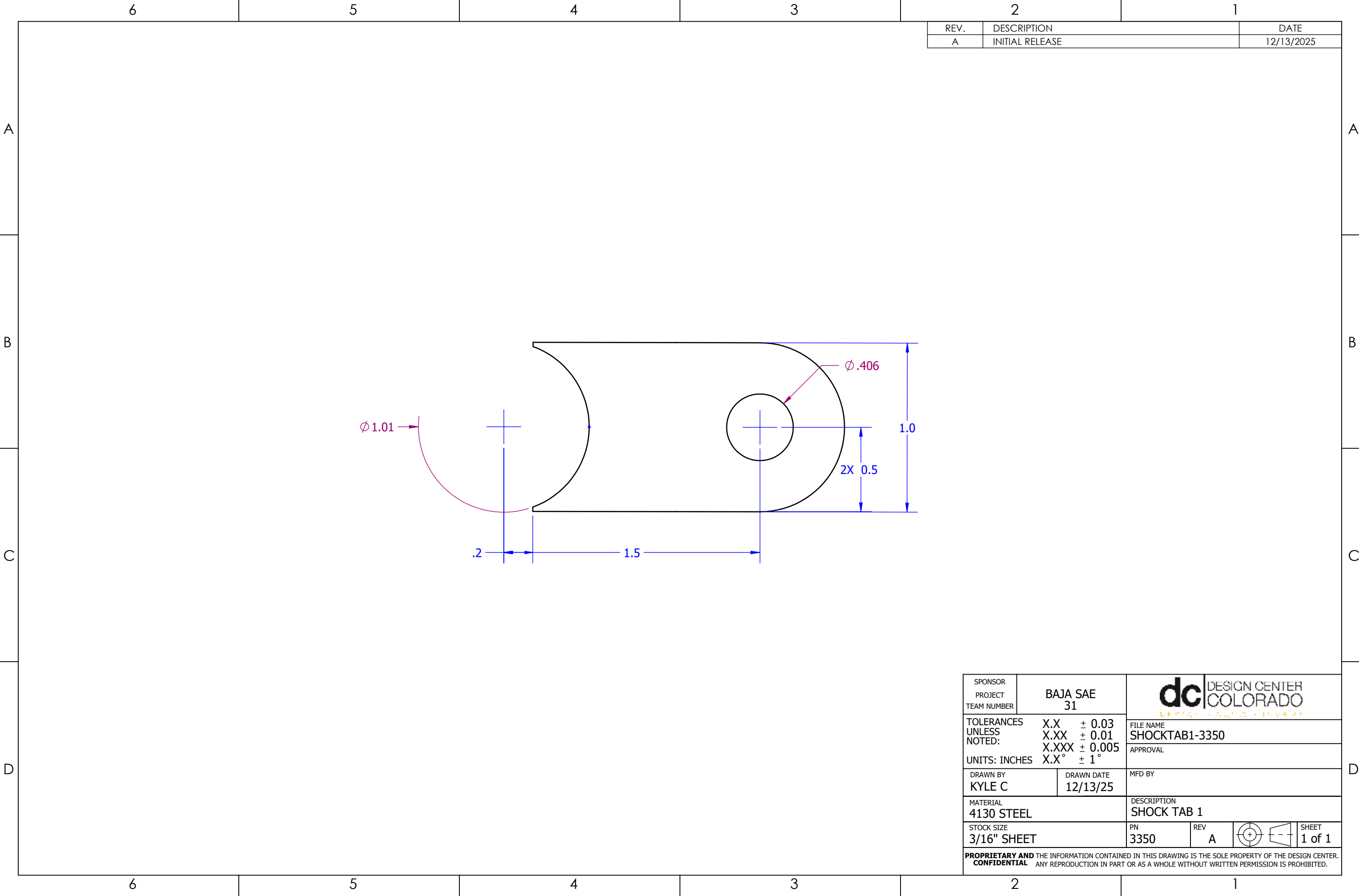
SPONSOR		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT			
PROJECT							
TEAM NUMBER							
FILE NAME							
RearUpperControlArm_3500							
DRAWN BY		DRAWN DATE		DESCRIPTION			
NICK G		12/13/2025		REAR UPPER CONTROL ARM			
APPROVAL				PN	REV		SHEET
				3500	A		1 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.							

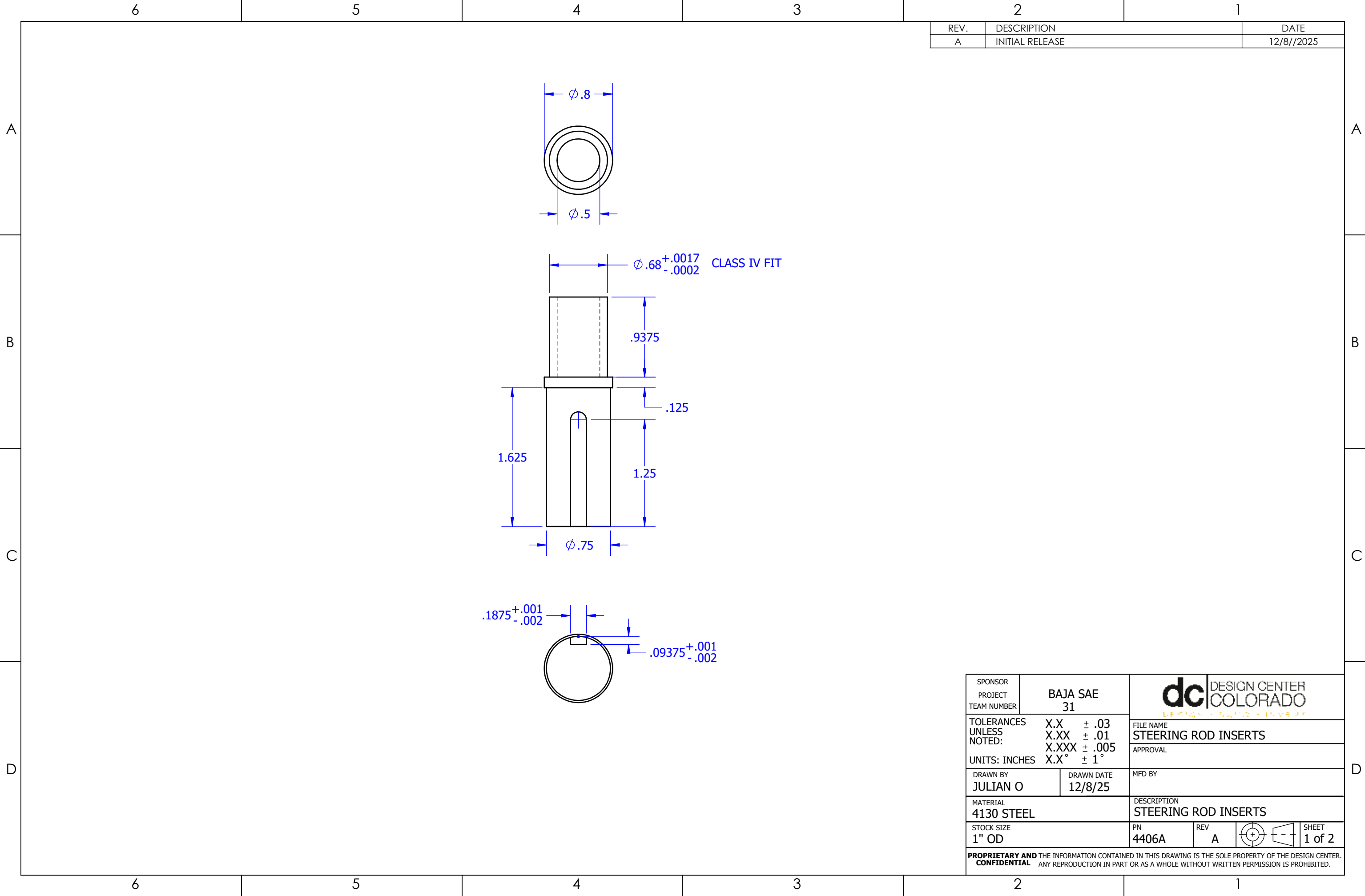
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.		
1	3501	REAR UPPER CONTROL ARM MEMBER	1		
2	3502	REAR UPPER CONTROL ARM MEMBER	1		
4	3503	REAR UPPER CONTROL ARM MEMBER	1		
4	3504	REAR UPPER CONTROL ARM MEMBER	1		
6	3505	SHOCK TAB	2		

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/13/2025



SPONSOR		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT			
PROJECT							
TEAM NUMBER							
FILE NAME				RearUpperControlArm_3500			
DRAWN BY		DRAWN DATE		DESCRIPTION			
NICK G		12/13/2025		REAR UPPER CONTROL ARM			
APPROVAL				PN	REV		SHEET
				3500	A		2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.							





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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/8//2025

A

A

B

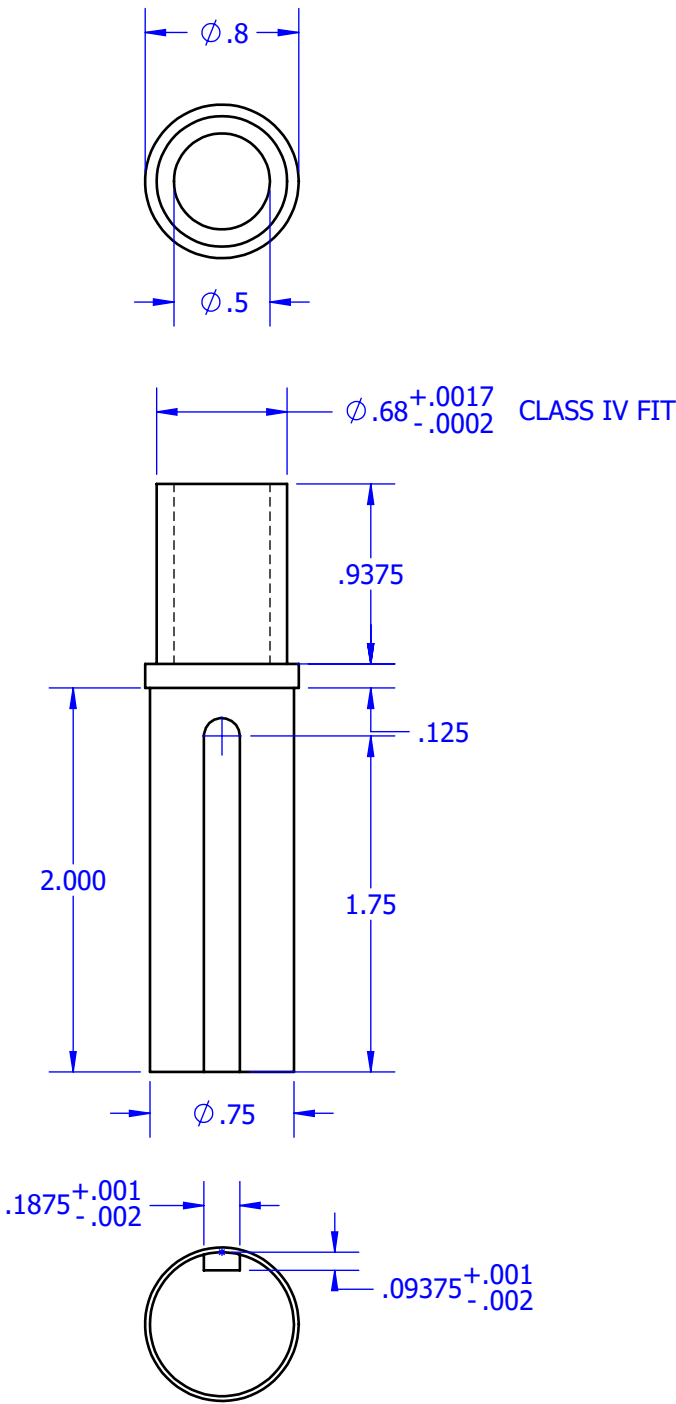
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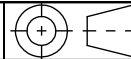
C

C

D

D



SPONSOR		dc DESIGN CENTER COLORADO LEARN • GROW • INSPIRE	
PROJECT			
TEAM NUMBER		BAJA SAE 31	
TOLERANCES UNLESS NOTED:		X.X ± .03	
		X.XX ± .01	
		X.XXX ± .005	
UNITS: INCHES		X.X° ± 1°	
DRAWN BY JULIAN O		DRAWN DATE 12/8/25	
		MFD BY	
MATERIAL 4130 STEEL		DESCRIPTION STEERING ROD INSERTS	
STOCK SIZE 1" OD		PN 4406B	REV A
			SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			

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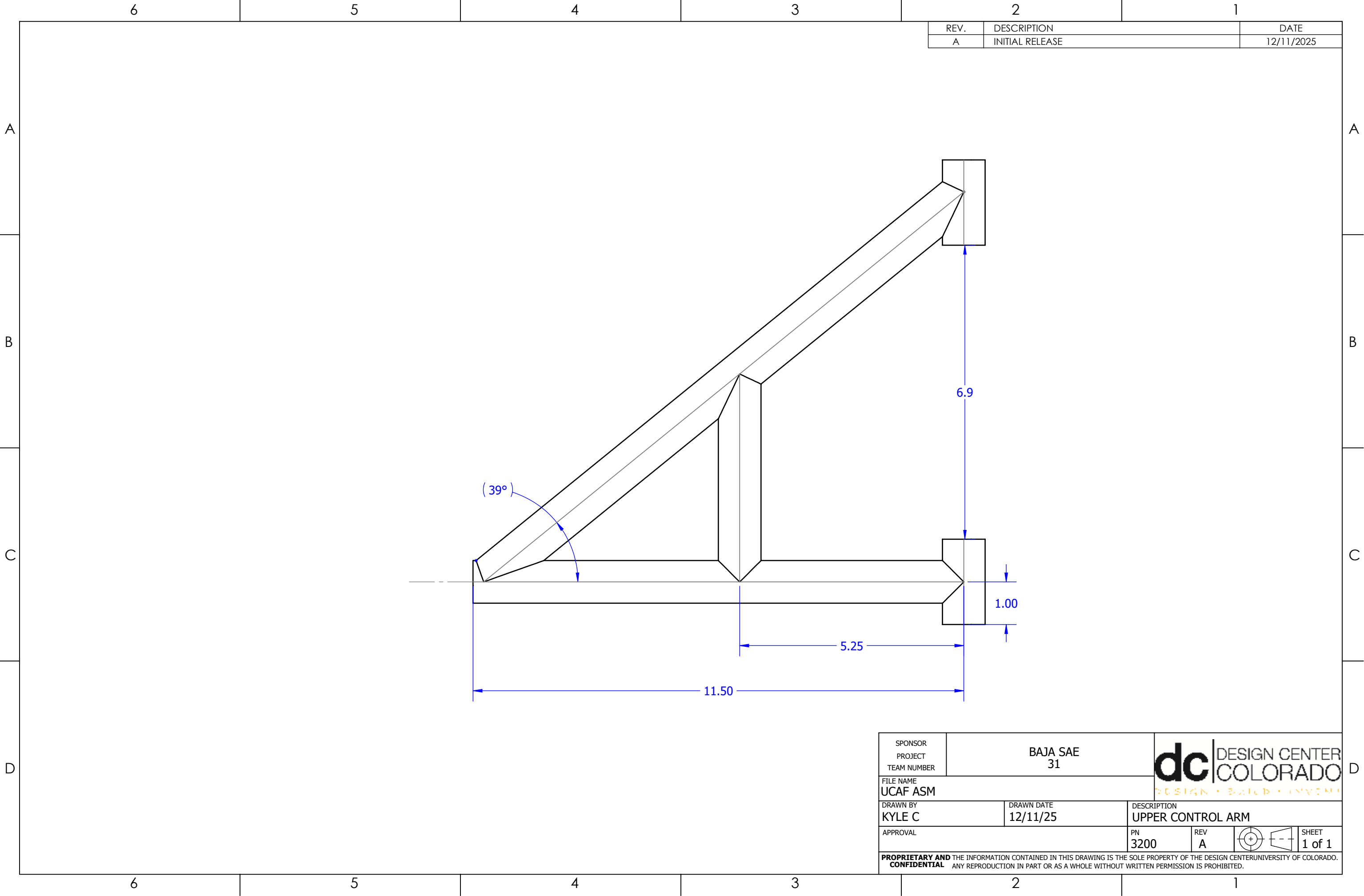
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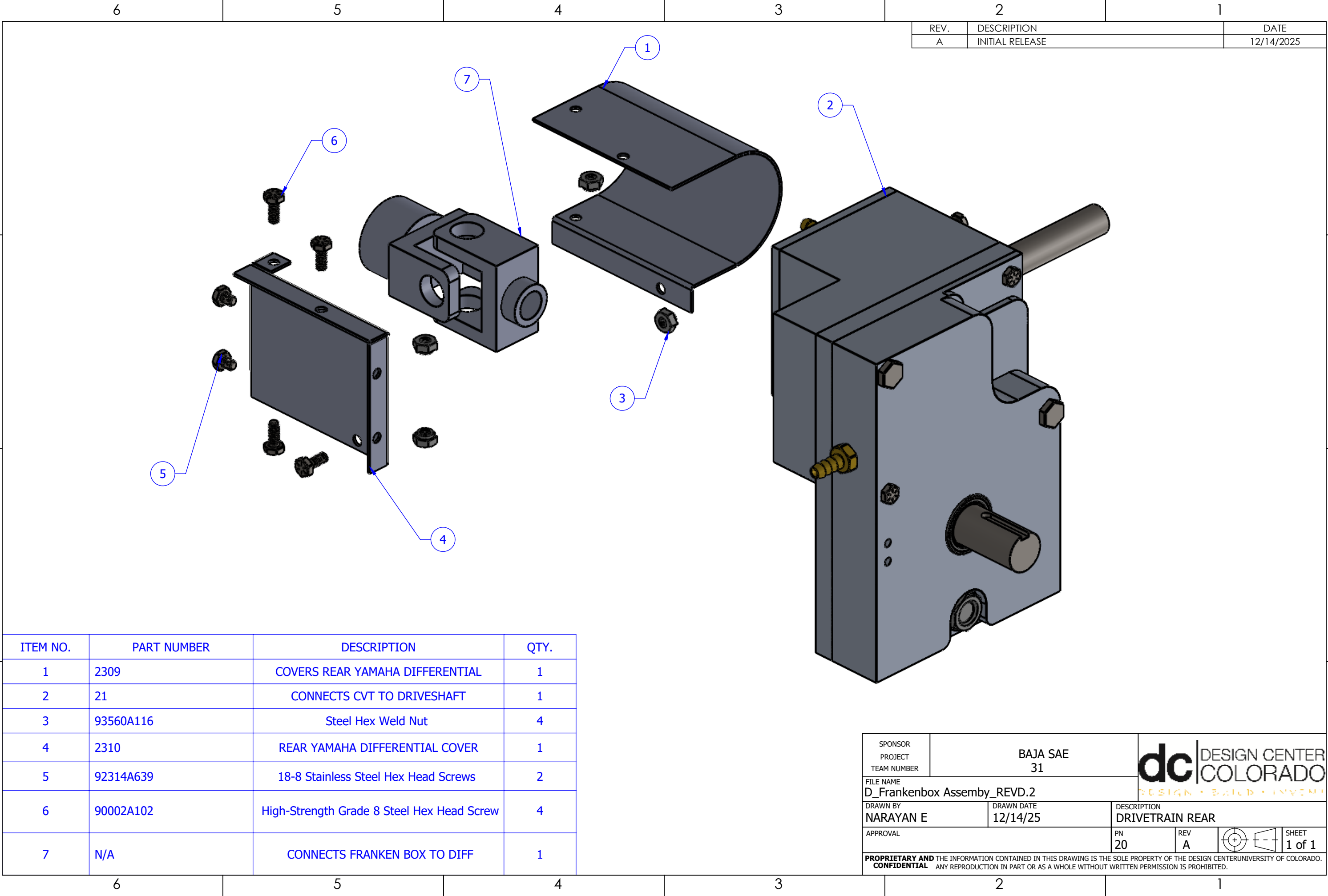
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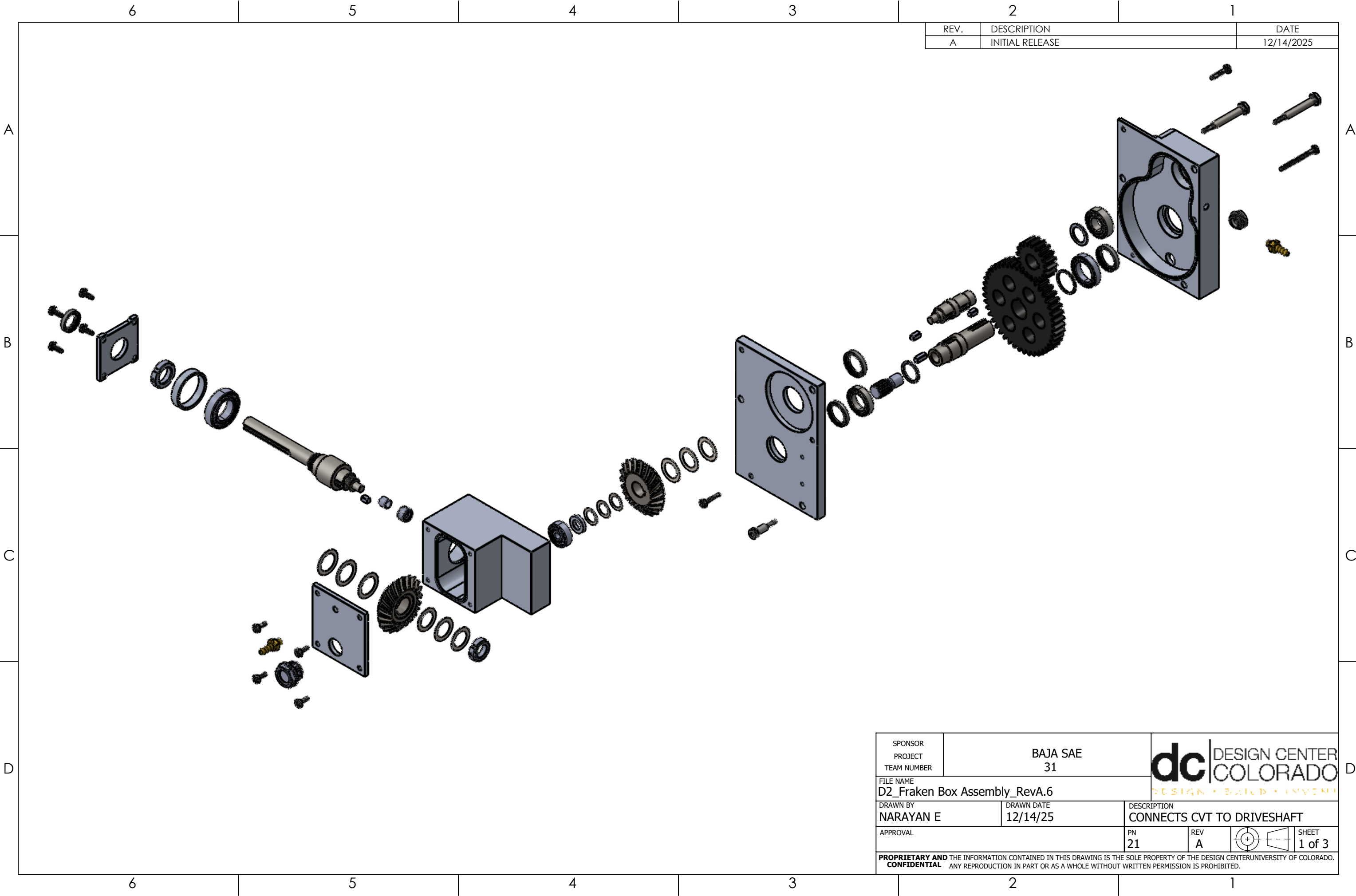
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2

1







REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/14/2025

SPONSOR		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
PROJECT					
TEAM NUMBER					
FILE NAME					
D2_Fraken Box Assembly_RevA.6					
DRAWN BY		DRAWN DATE		DESCRIPTION	
NARAYAN E		12/14/25		CONNECTS CVT TO DRIVESHAFT	
APPROVAL				PN	REV
				21	A
					SHEET
					1 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

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1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1199N64	Spring-Loaded Rotary Shaft Seal with Wiper Lip	1
2	21205	SEALS FRANKEN BOX ON INPUT FACE	1
3	21401	INPUT BEARING SPACER	1
4	D5_Input_Shift_RevB.3	INPUT SHAFT	1
5	21601	RH SPIRAL KEY	1
6	skf_inner_ring_ir_10x13x12_5	INNER RING FOR NEEDLE ROLLER BEARINGS	1
7	skf_bearing_hk_1312_2	DRAWN CUP NEEDLE ROLLER BEARING	1
8	21101	FRANKEN BOX SPIRAL GEAR HOUSING	1
9	21402	SPACER FOR LH SPIRAL GEAR	1
10	98126A418	18-8 Stainless Steel Ring Shim	1
11	MMS4-20L	LEFT HAND SPIRAL BEVEL GEAR	1
12	98126A503	18-8 Stainless Steel Ring Shim	2
13	98126A424	18-8 Stainless Steel Ring Shim	2
14	98126A177	18-8 Stainless Steel Ring Shim	2
15	98126A497	18-8 Stainless Steel Ring Shim	1
16	98126A171	18-8 Stainless Steel Ring Shim	1
17	6300	DEEP GROVE BALL BEARING	1
18	KMK4	METRIC INTEGRAL LOCKING LOCK NUT	1
19	MMS4-20R	RIGHT HAND SPIRAL BEVEL GEAR	1
20	21104	FRANKEN BOX RH SPIRAL ACCESS PLATE	1
21	5095k118	Shatter-Resistant Sight	1
22	90002A102	High-Strength Grade 8 Steel Hex Head Screw	8
23	5346K95	Brass Barbed Hose Fitting for Air and Water	2
24	98126A180	18-8 Stainless Steel Ring Shim	1
25	98126A427	18-8 Stainless Steel Ring Shim	1
26	98126A506	18-8 Stainless Steel Ring Shim	1
27	6006	DEEP GROVE BALL BEARING	1
28	KMK5	METRIC INTEGRAL LOCKING LOCK NUT	1

4

3

2

1

REV.

DESCRIPTION

DATE

A

INITIAL RELEASE

12/14/2025

SPONSOR
PROJECT
TEAM NUMBER

BAJA SAE
31

dc | DESIGN CENTER
COLORADO

FILE NAME

D2_Fraken Box Assembly_RevA.6

DRAWN BY
NARAYAN E

DRAWN DATE
12/14/25

DESCRIPTION
COMPONENTS AROUND SPIRAL GEARS

APPROVAL

PN
21A

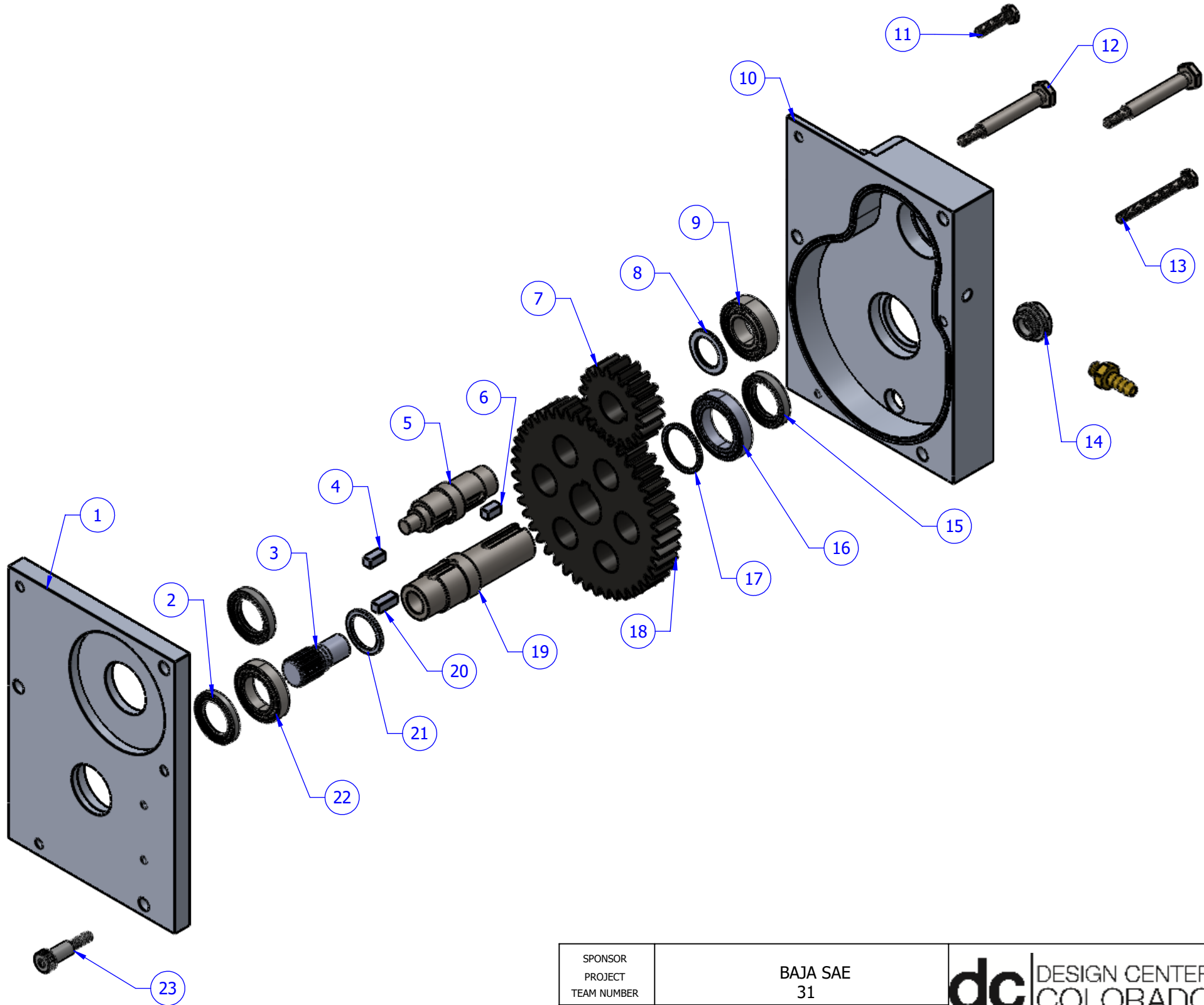
REV
A

SHEET
2 of 3

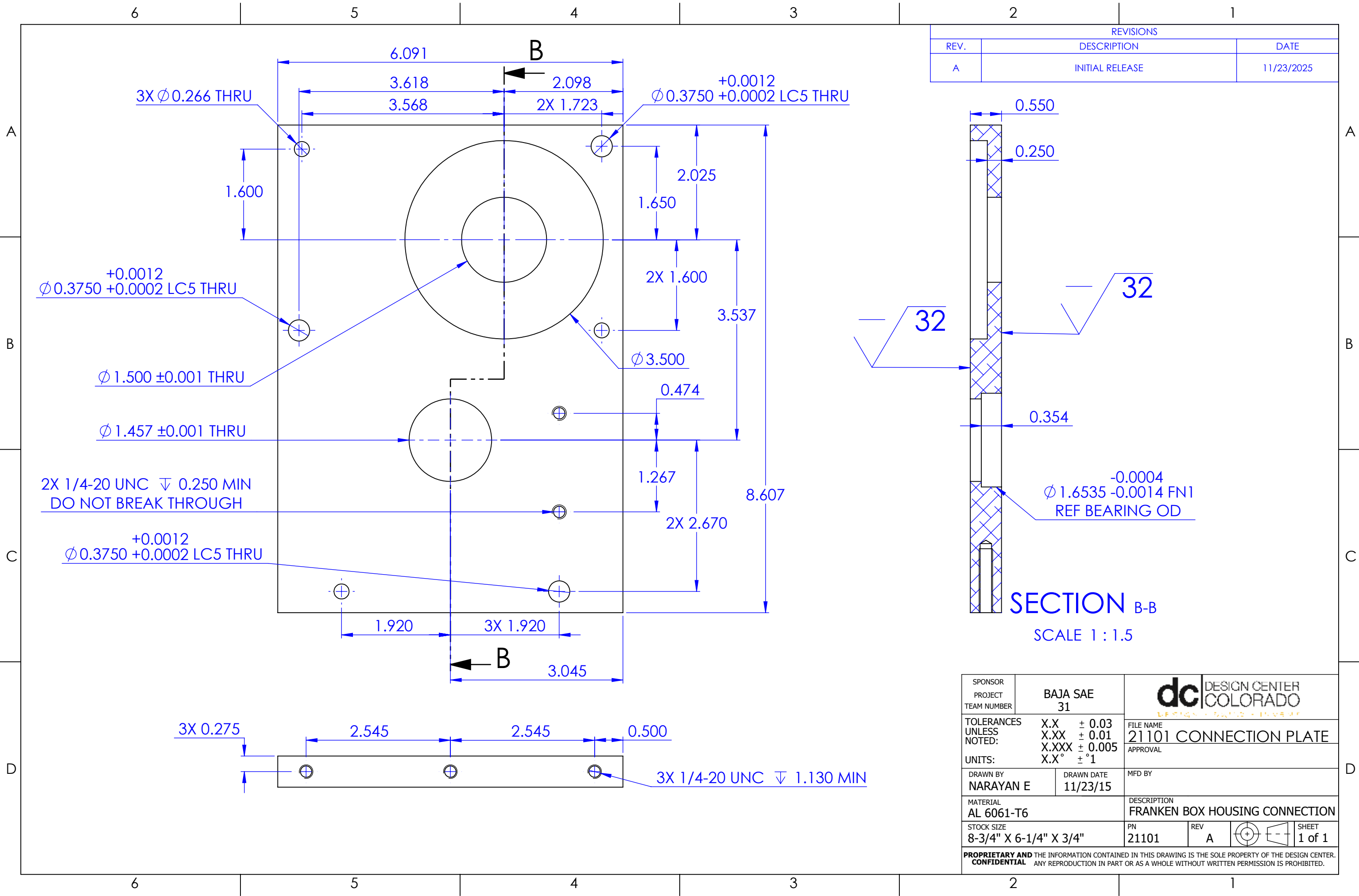
PROPRIETARY AND
CONFIDENTIAL

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ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	21102	FRANKEN BOX HOUSING CONNECTION	1
2			
3	21305	CONNECTS U-JOINT TO FRANKEN BOX	1
4	21602	LH SPIRAL TO SHAFT	1
5	21302	PINION SHAFT	1
6	21603	PINION TO SHAFT	1
7	SS3-18	PINION SPUR GEAR 1	1
8	21403	PINION SPACER	1
9	6004	DEEP GROVE BALL BEARING	1
10	21103	FRANKEN BOX SPUR GEAR HOUSING	1
11	92620A545	Zinc Yellow-Chromate Plated Hex Head Screw	2
12	94496A670	Steel Hex Head Shoulder Screw	2
13	91268A123	High-Strength Grade 8 Steel Hex Head Screw	1
14	5095K117	Shatter-Resistant Sight	1
15	1199N65	Spring-Loaded Rotary Shaft Seal with Wiper Lip	2
16	61906	DEEP GROVE BALL BEARING	1
17	21405	B6 GEAR SPACER	1
18	SS3-44	OUTPUT SPUR GEAR 1	1
19	21303	FRANKEN BOX OUTPUT SHAFT	1
20	21604	GEAR TO SHAFT	1
21	21404	B5 GEAR SPACER	1
22	61905	DEEP GROVE BALL BEARING	1
23	97832A278	18-8 Stainless Steel Shoulder Screw	1

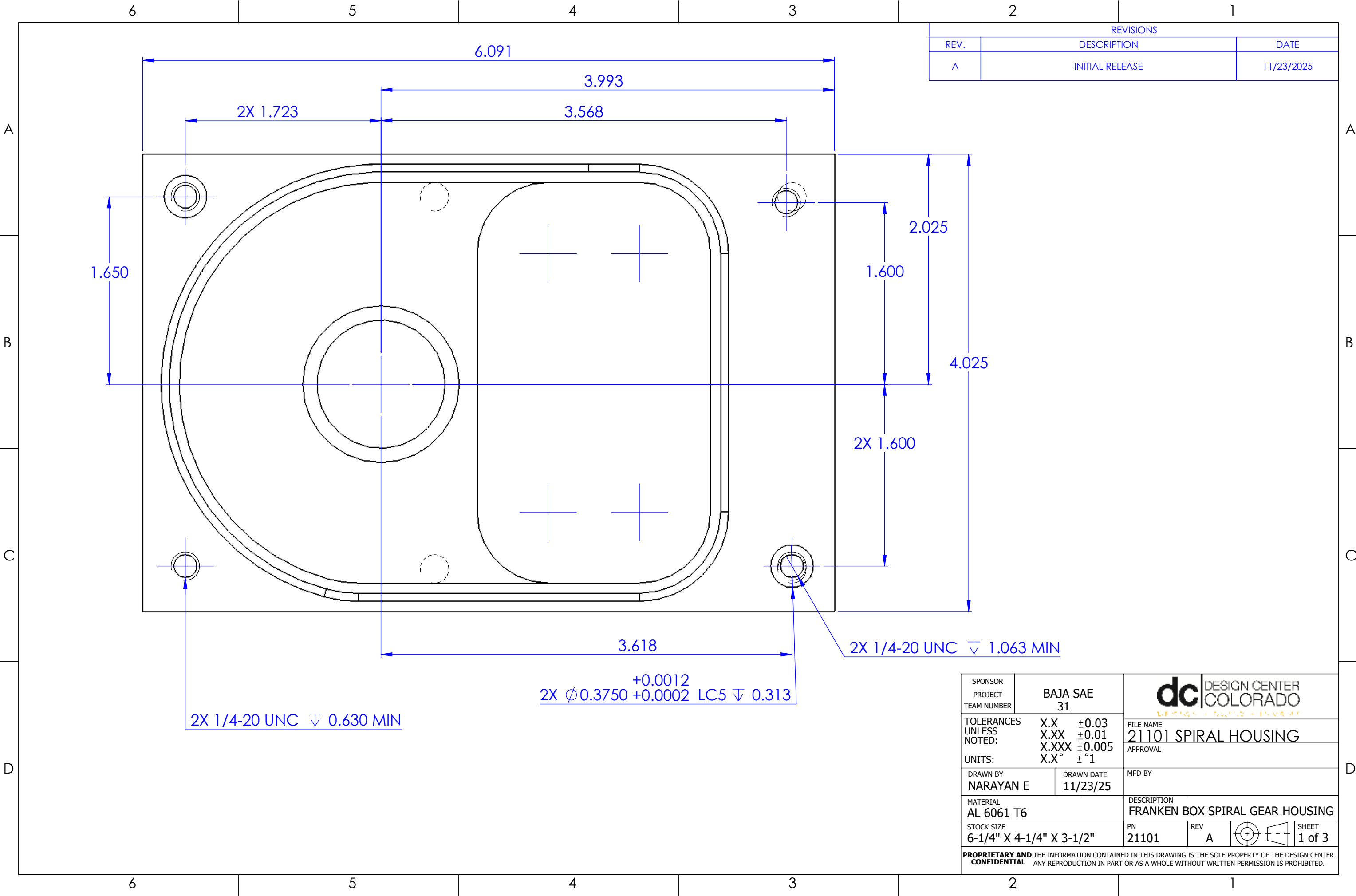


SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO	
FILE NAME D2_Fraken Box Assembly_RevA.6		DESIGN • BUILD • INVENT	
DRAWN BY NARAYAN E	DRAWN DATE 12/14/25	DESCRIPTION COMPONENTS AROUND SPIRAL GEARS	
APPROVAL		PN 21B	REV A
			SHEET 3 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER/UNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			



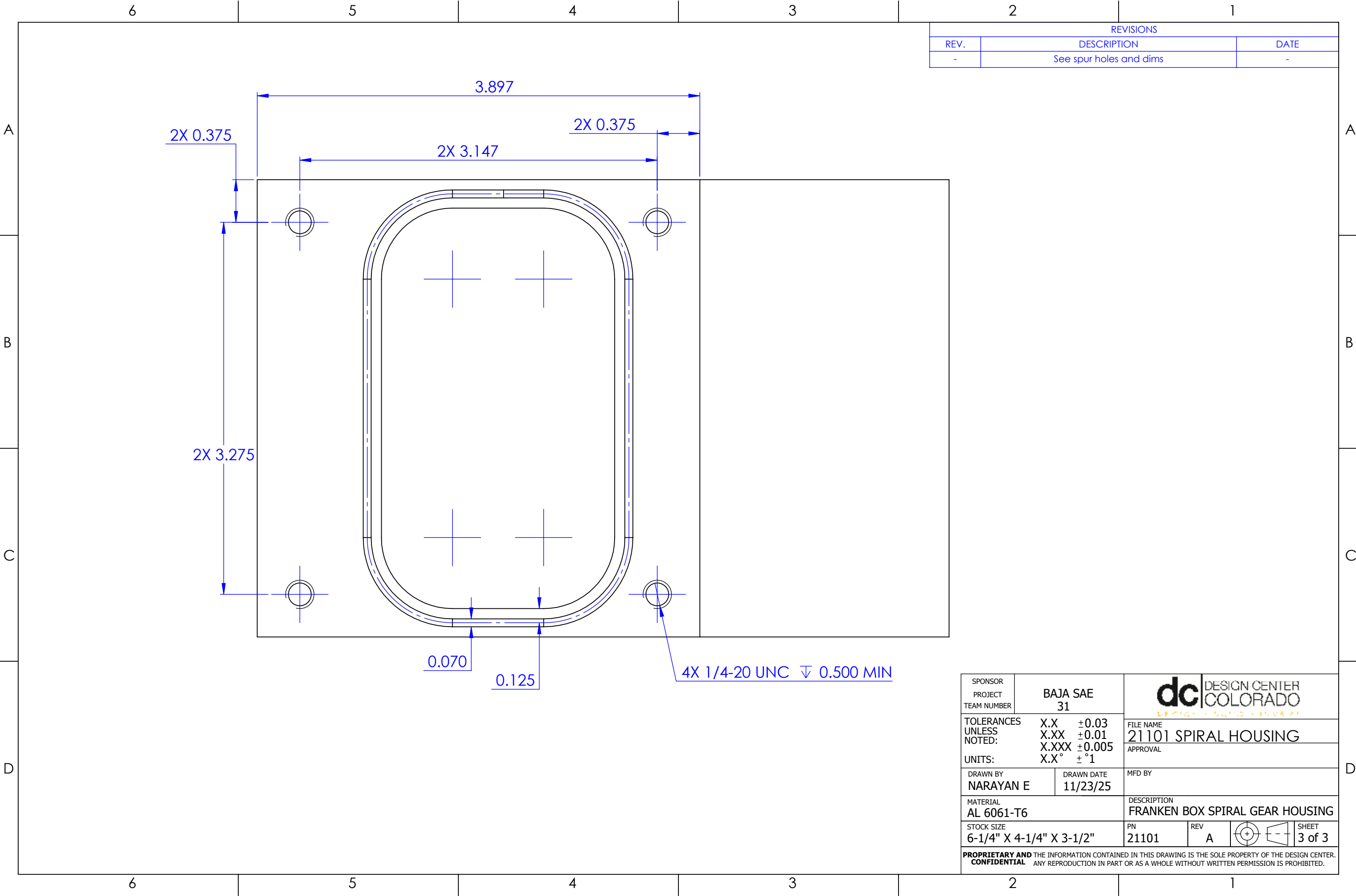
REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/23/2025

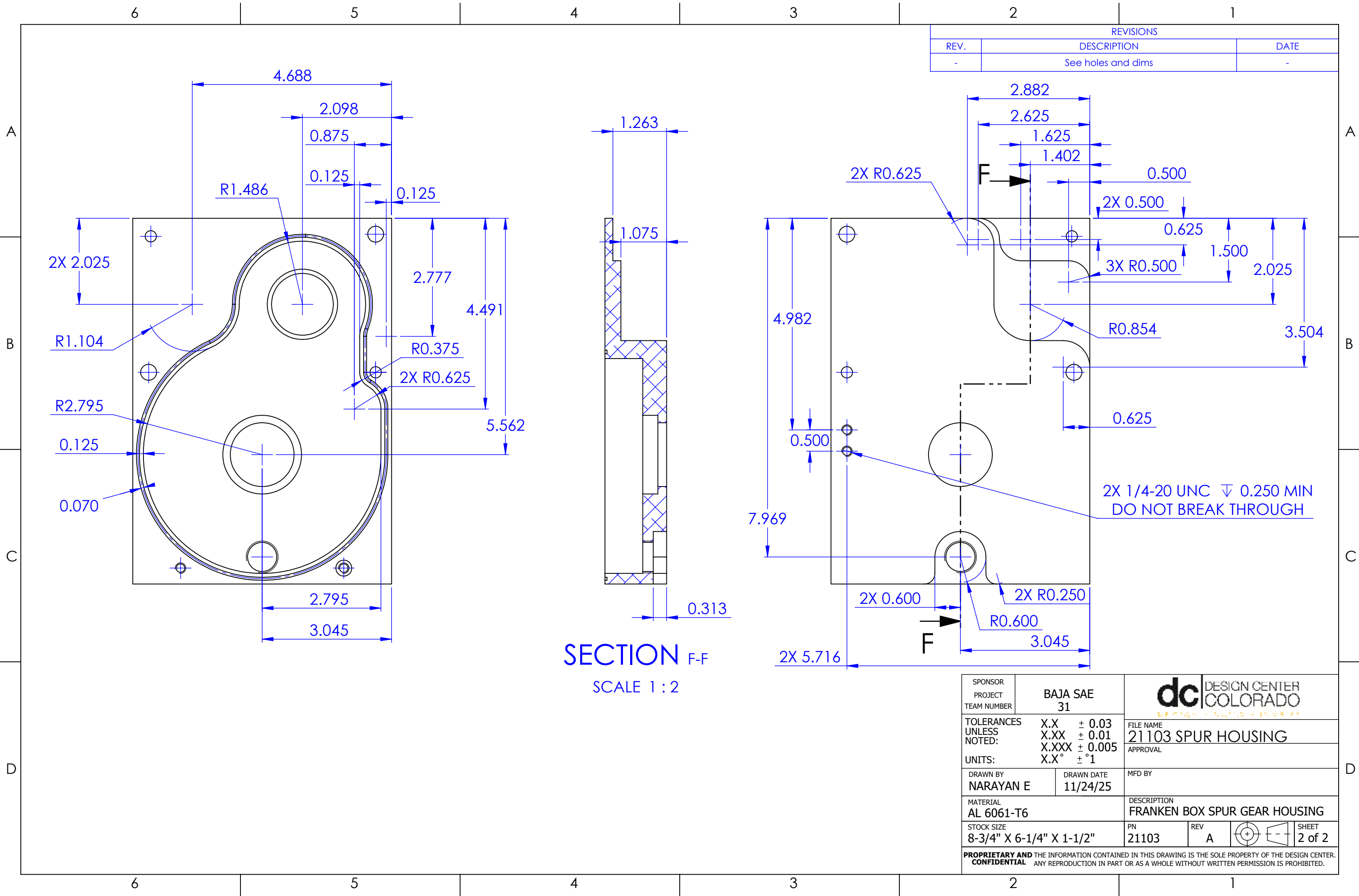
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:	X.X $\pm$ 0.03 X.XX $\pm$ 0.01 X.XXX $\pm$ 0.005 X.X° $\pm$ 1°	FILE NAME 21101 CONNECTION PLATE	APPROVAL
UNITS:		MFD BY	
DRAWN BY NARAYAN E	DRAWN DATE 11/23/15	DESCRIPTION FRANKEN BOX HOUSING CONNECTION	
MATERIAL AL 6061-T6	STOCK SIZE 8-3/4" X 6-1/4" X 3/4"	PN 21101	REV A
PROPRIETARY AND CONFIDENTIAL		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
			SHEET 1 of 1



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/23/2025

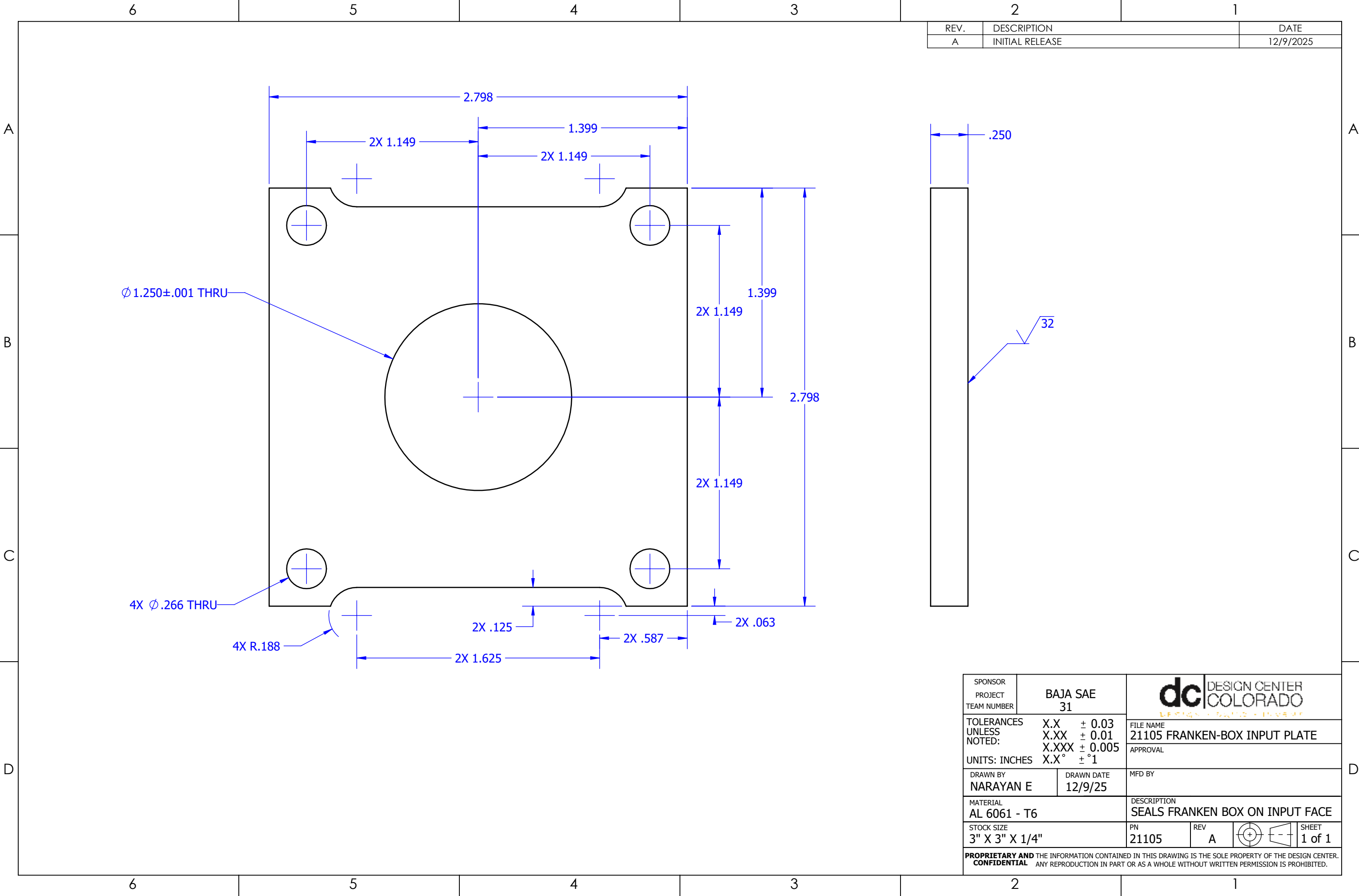
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED: UNITS:		X.X ±0.03		FILE NAME	
		X.XX ±0.01		21101 SPIRAL HOUSING	
		X.XXX ±0.005		APPROVAL	
		X.X° ±1			
DRAWN BY NARAYAN E		DRAWN DATE 11/23/25		MFD BY	
MATERIAL AL 6061 T6				DESCRIPTION FRANKEN BOX SPIRAL GEAR HOUSING	
STOCK SIZE 6-1/4" X 4-1/4" X 3-1/2"				PN 21101	REV A
					
SHEET 1 of 3					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

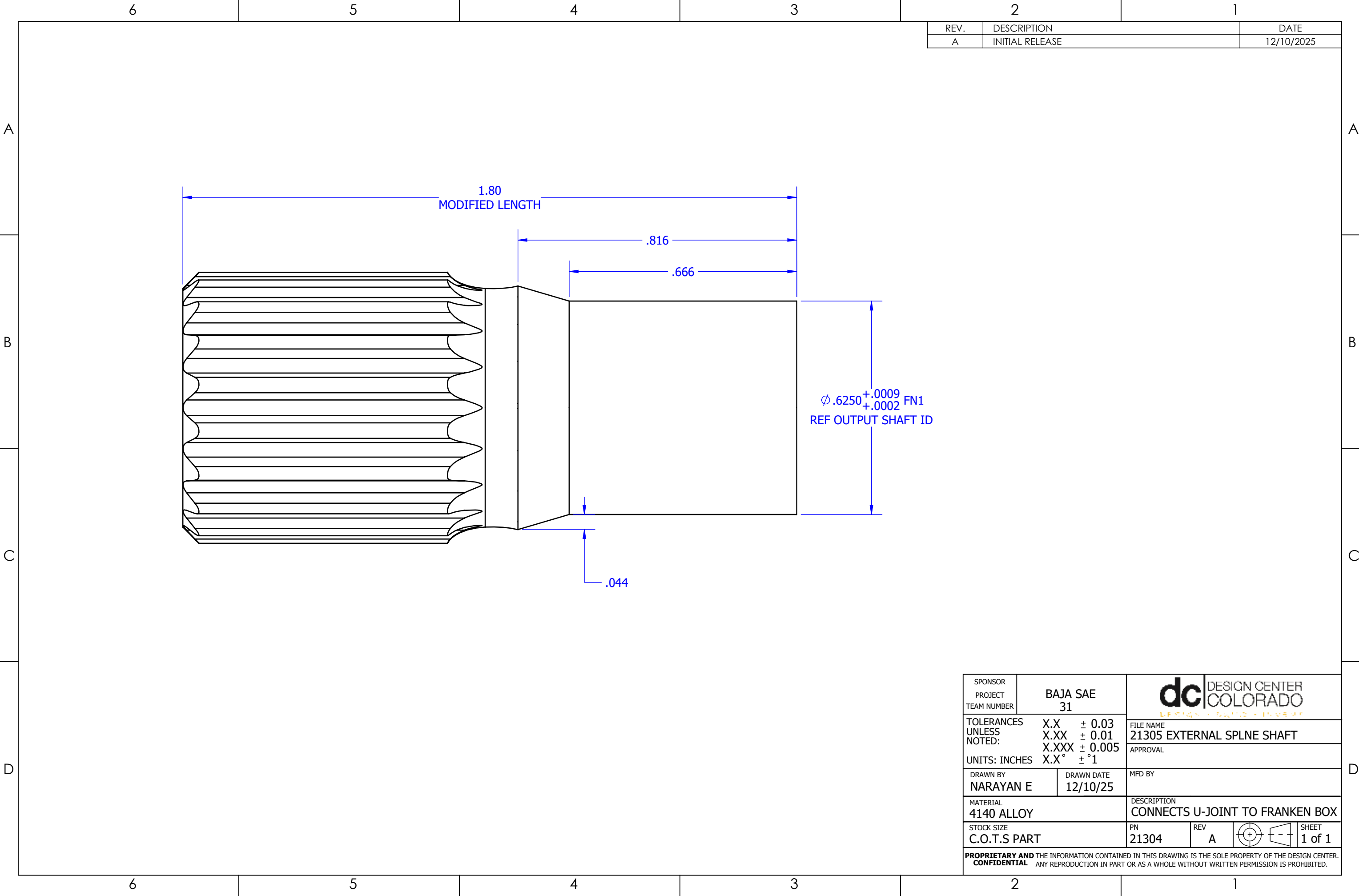


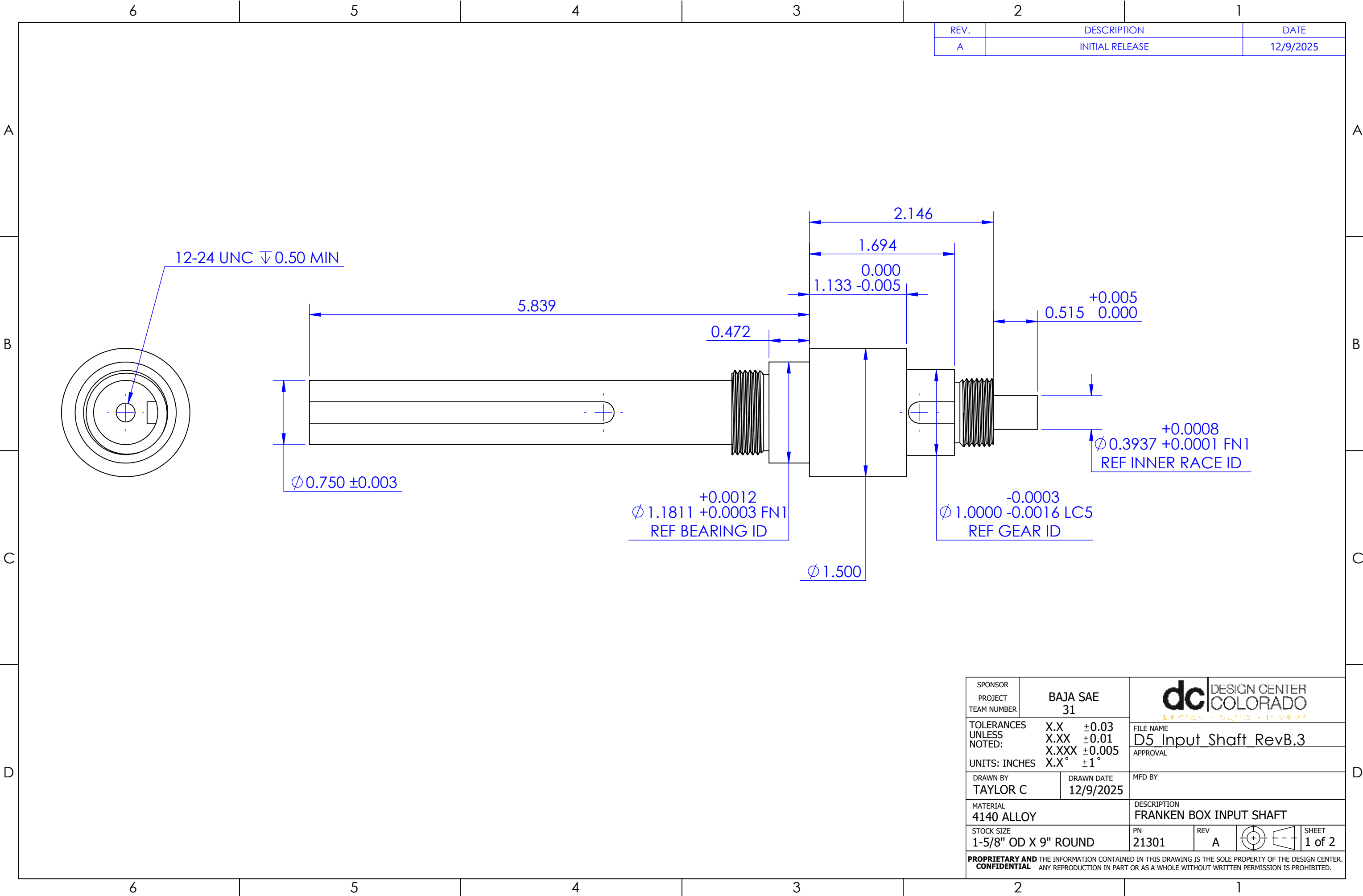


REVISIONS		
REV.	DESCRIPTION	DATE
-	See holes and dims	-

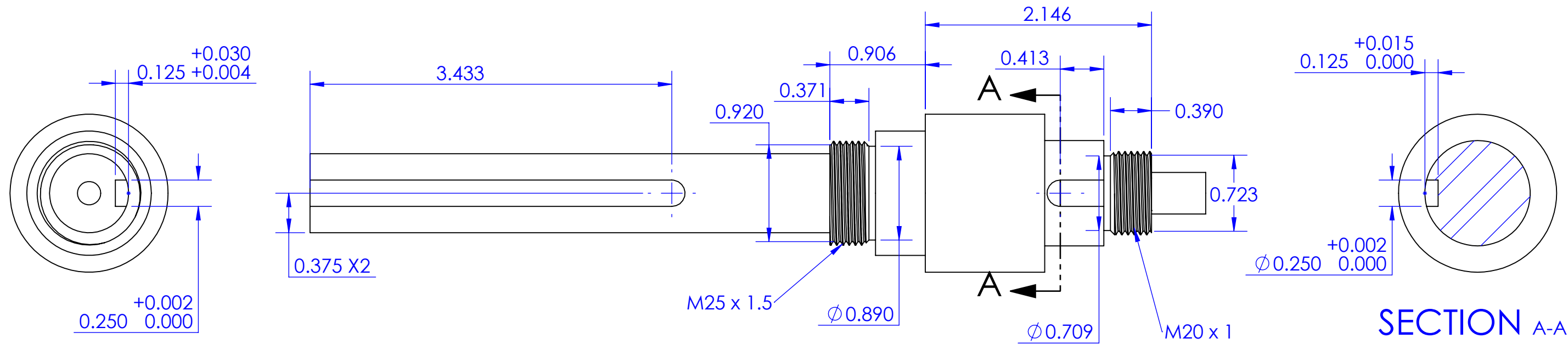
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO LEARN • THINK • INVENT	
TOLERANCES UNLESS NOTED: UNITS:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± 1°		FILE NAME	
				21103 SPUR HOUSING	
				APPROVAL	
DRAWN BY NARAYAN E		DRAWN DATE 11/24/25		MFD BY	
MATERIAL AL 6061-T6		DESCRIPTION FRANKEN BOX SPUR GEAR HOUSING			
STOCK SIZE 8-3/4" X 6-1/4" X 1-1/2"		PN 21103	REV A		SHEET 2 of 2
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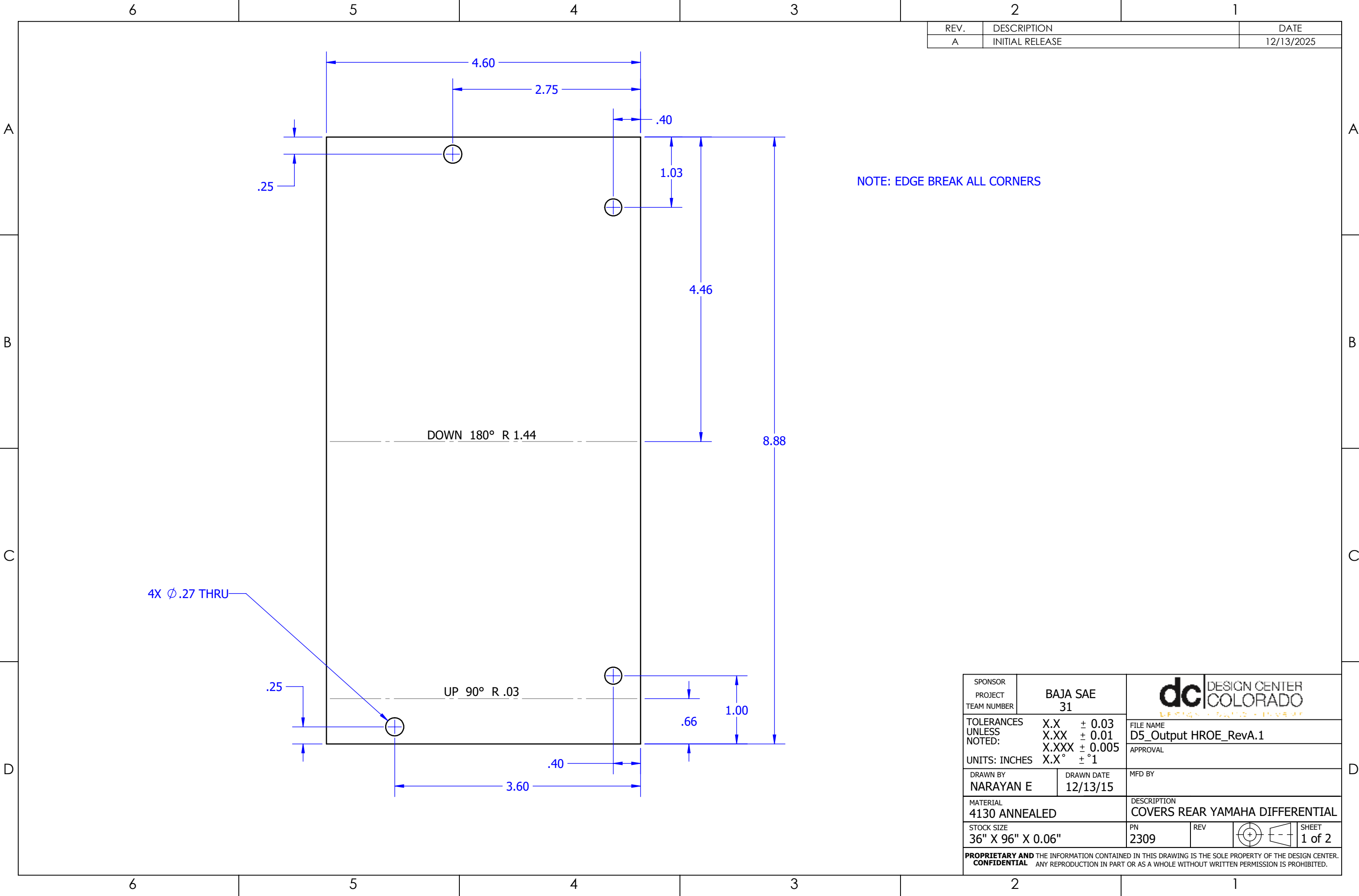


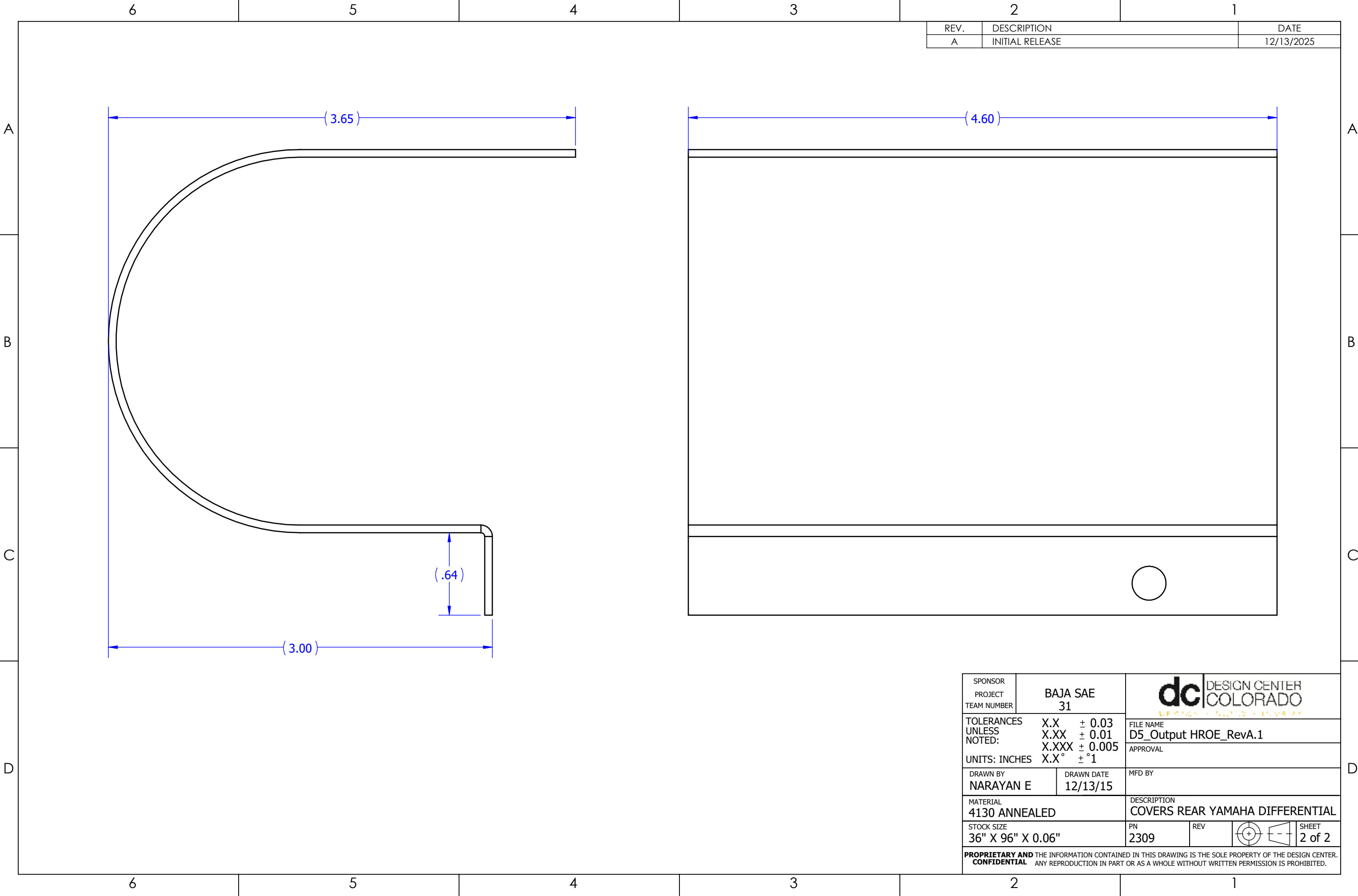


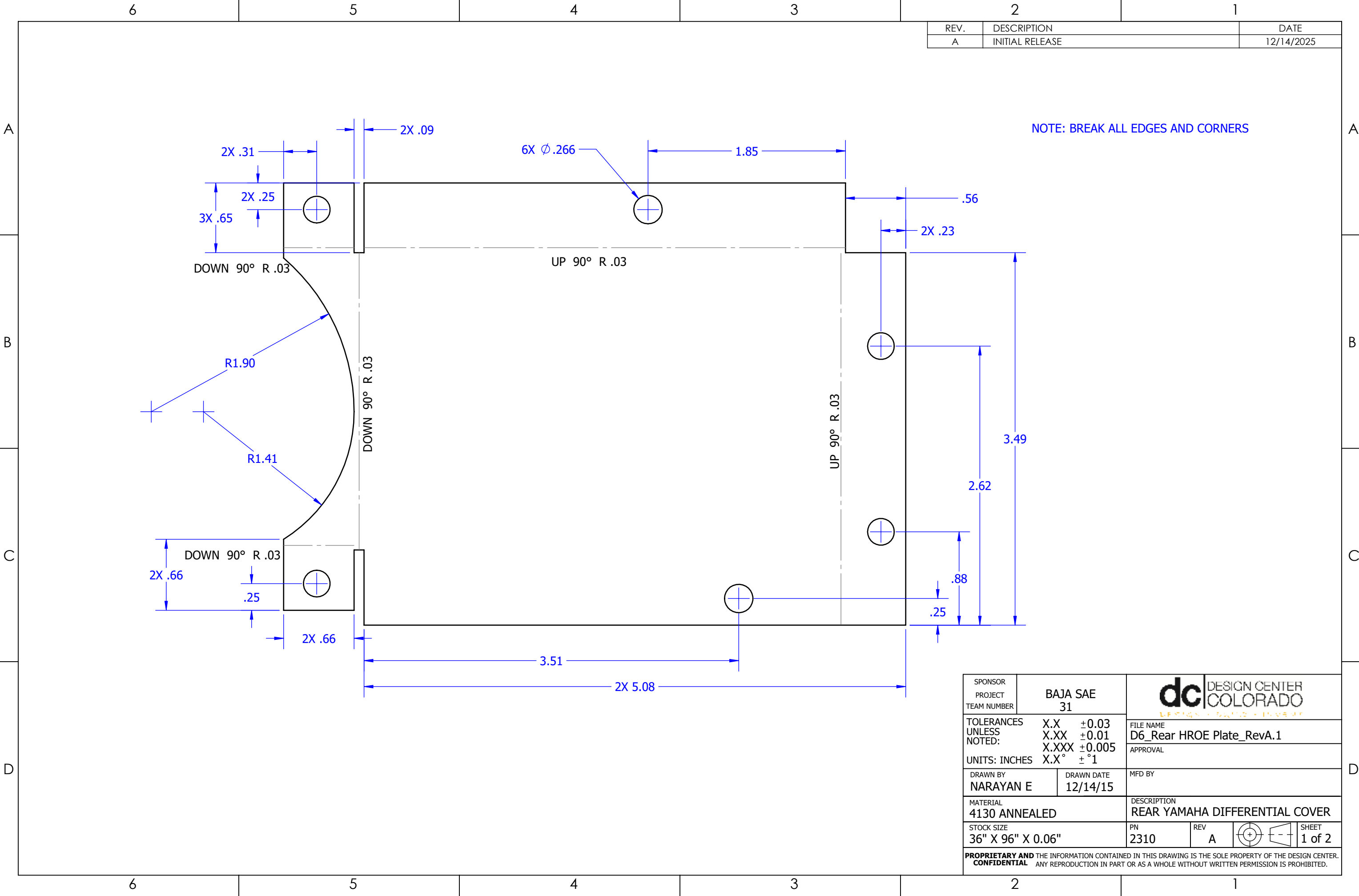
REVISIONS		
REV.	DESCRIPTION	DATE
-	See Sheet1	-

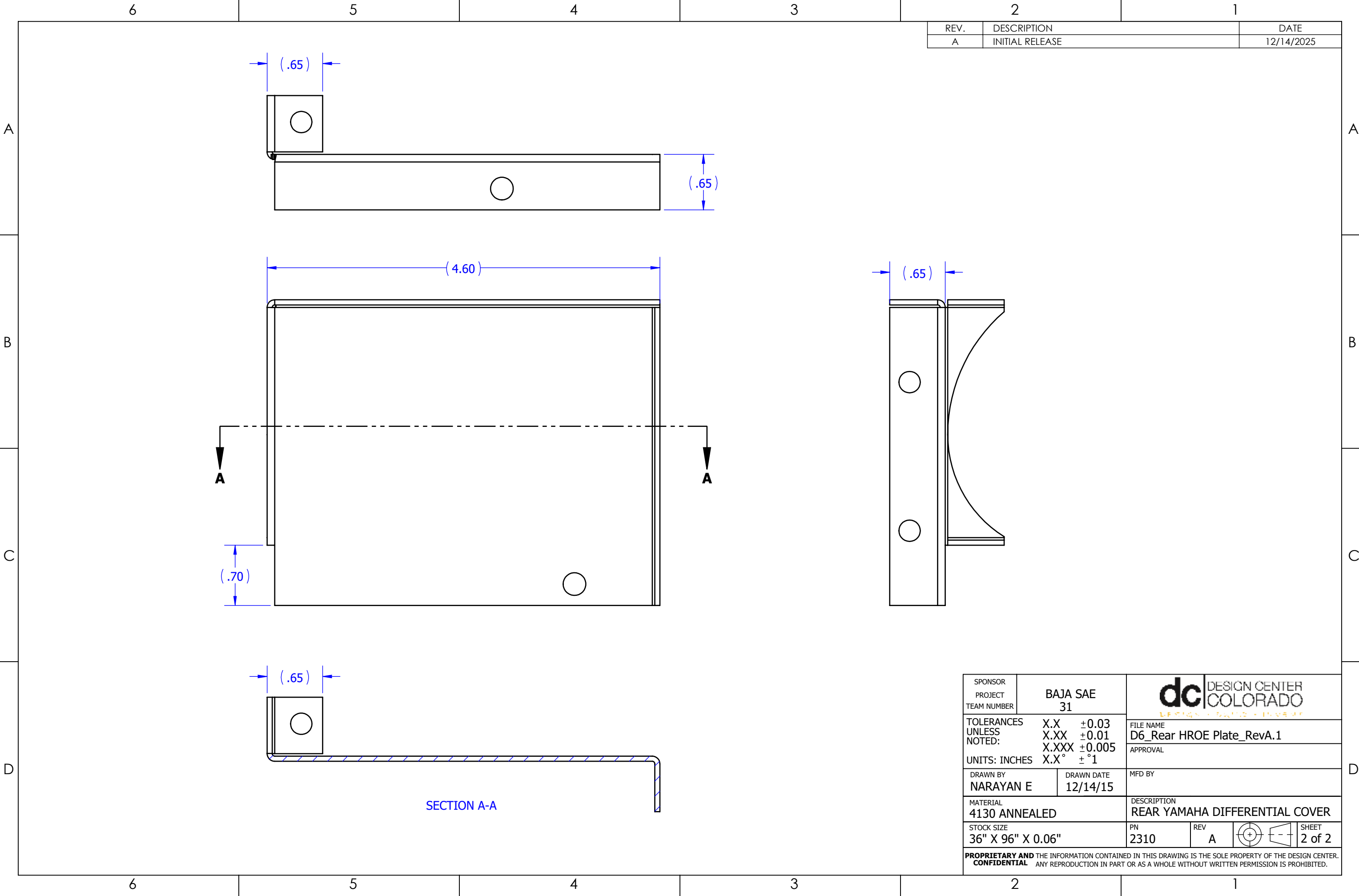


SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • DRAWING • INVENT	
TOLERANCES UNLESS NOTED:		X.X ±0.030 X.XX ±0.010 X.XXX ±0.005		FILE NAME D5 Input Shaft RevB.3	
UNITS: INCHES		X.X° ±1°		APPROVAL	
DRAWN BY TAYLOR C		DRAWN DATE 12/9/2025		MFD BY	
MATERIAL 4140 ALLOY		DESCRIPTION FRANKEN BOX INPUT SHAFT			
STOCK SIZE 1-5/8" OD X 9" ROUND		PN 21301	REV A		
SHEET 2 of 2					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

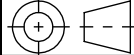


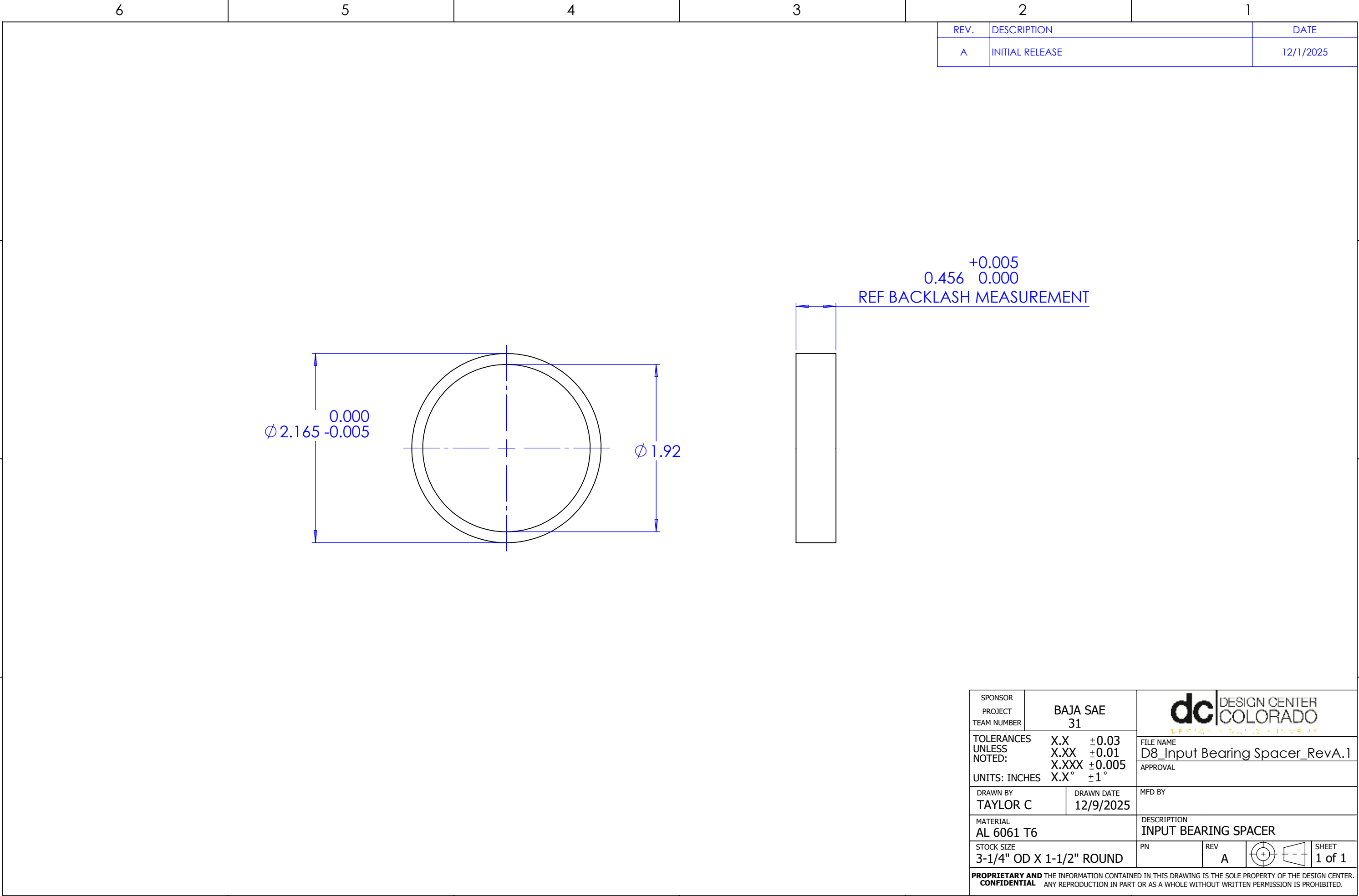


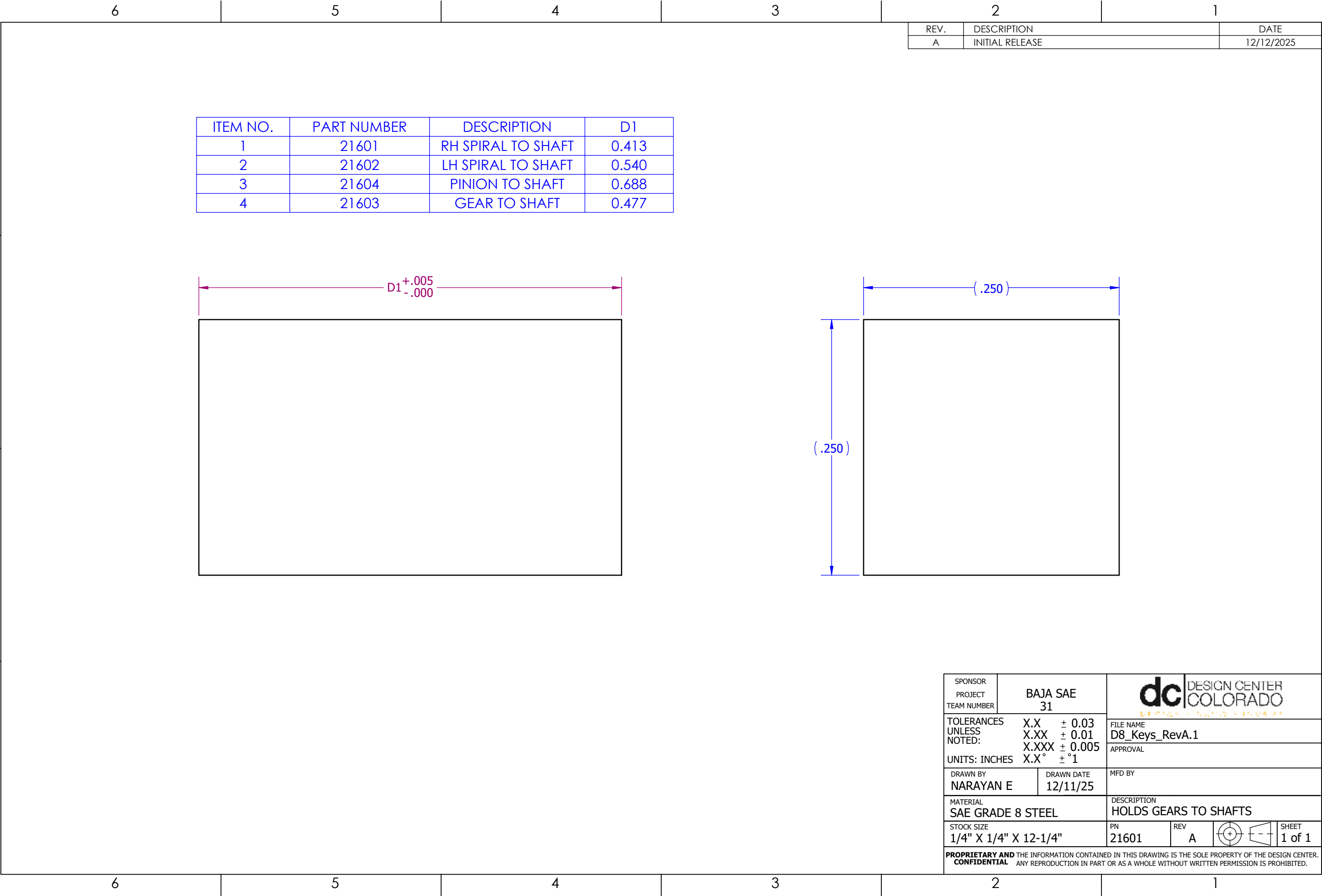


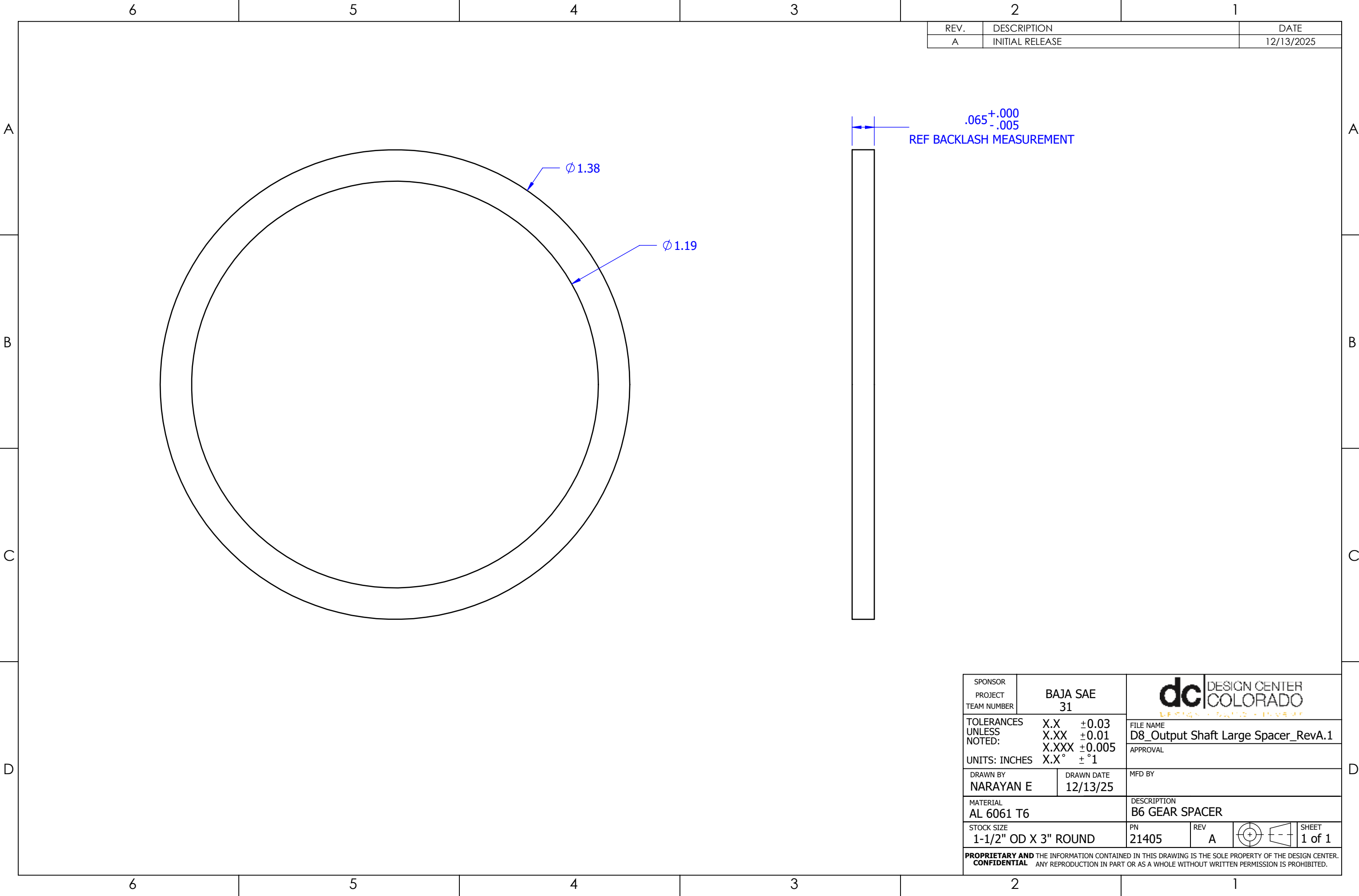


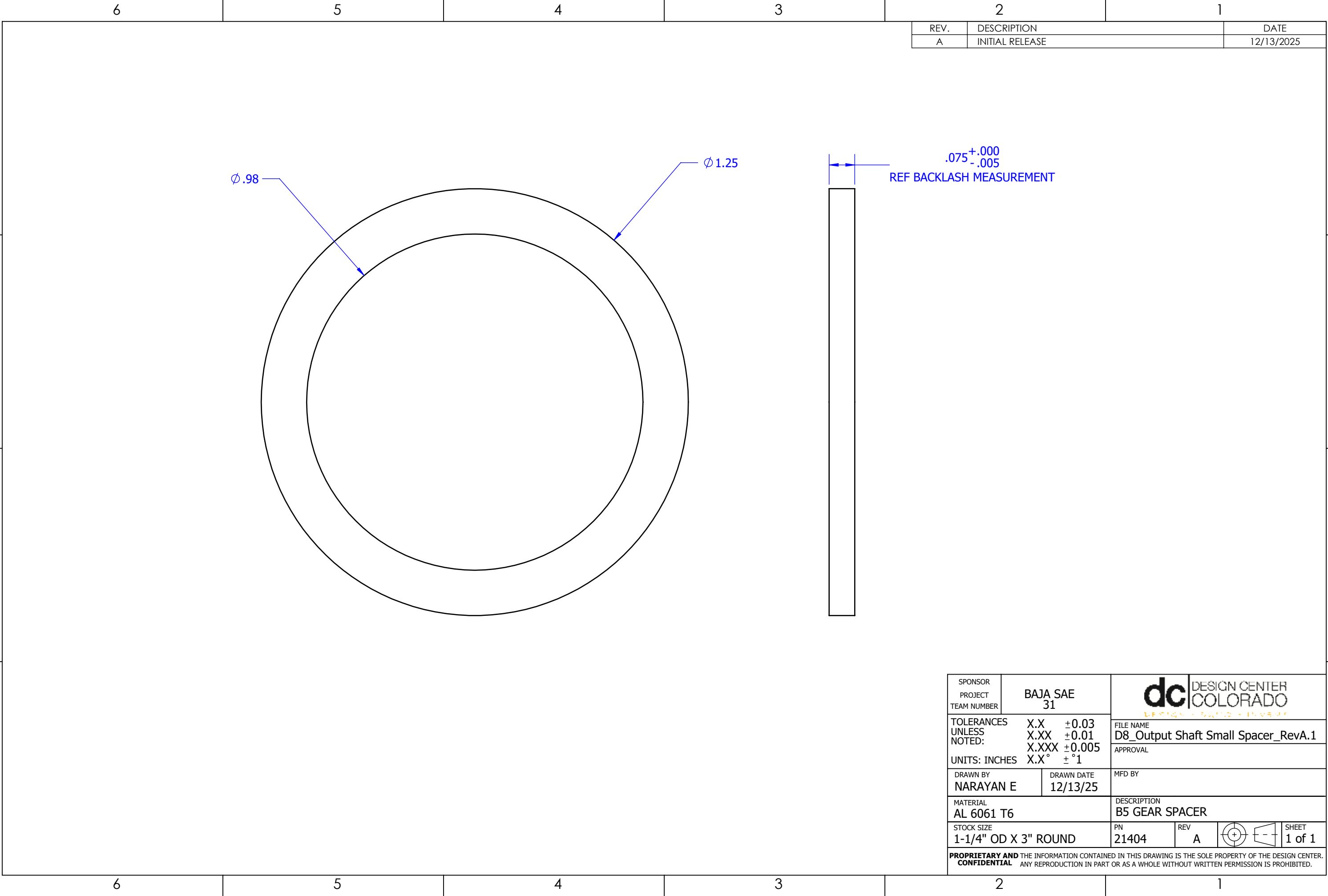
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/14/2025

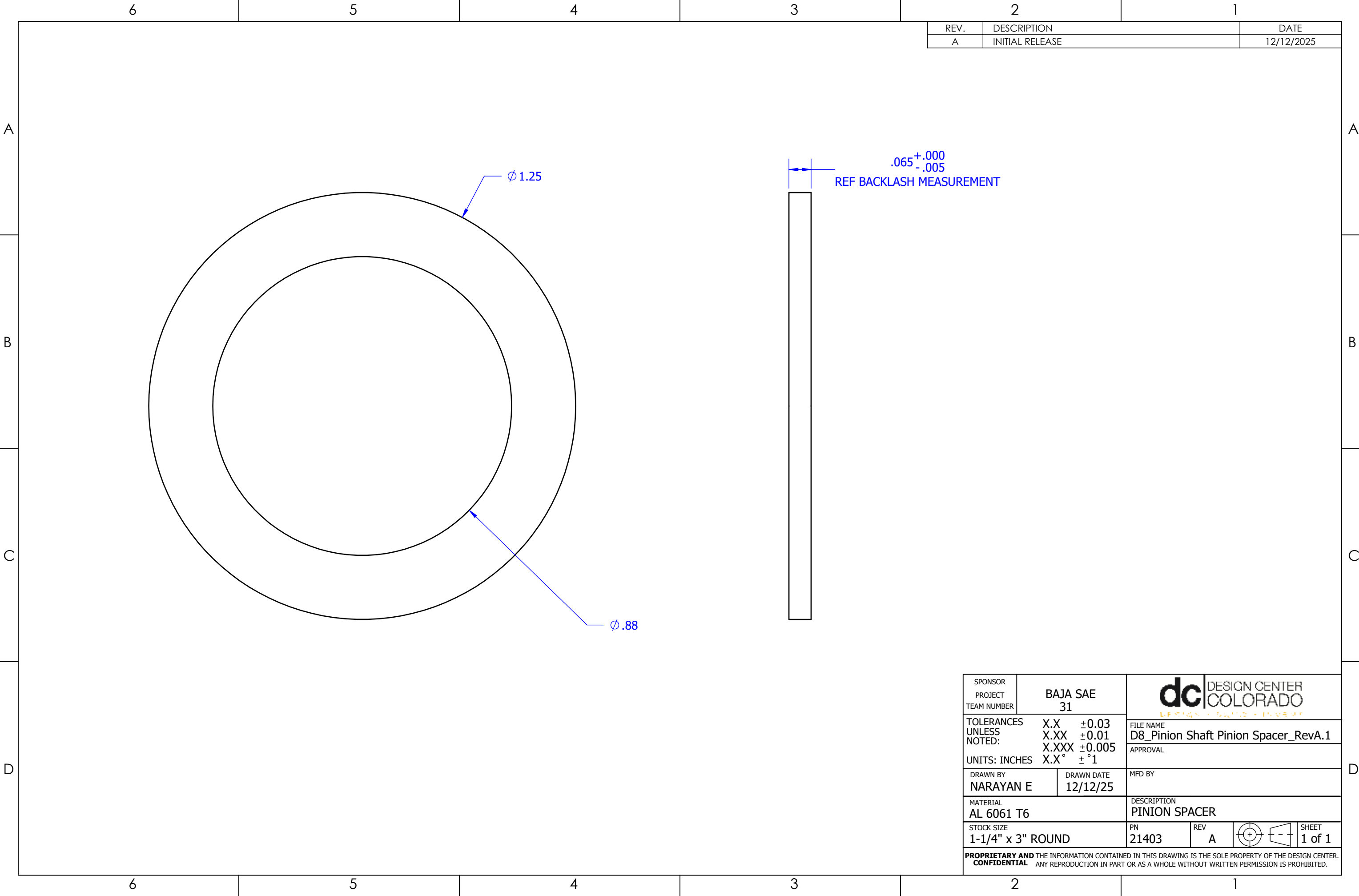
SPONSOR		dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE			
PROJECT					
TEAM NUMBER					
BAJA SAE		FILE NAME			
31		D6_Rear HROE Plate_RevA.1			
TOLERANCES		APPROVAL			
UNLESS					
NOTED:					
X.X ±0.03					
X.XX ±0.01					
X.XXX ±0.005					
UNITS: INCHES					
X.X° ±°1					
DRAWN BY		MFD BY			
NARAYAN E					
DRAWN DATE					
12/14/15					
MATERIAL		DESCRIPTION			
4130 ANNEALED		REAR YAMAHA DIFFERENTIAL COVER			
STOCK SIZE		PN	REV		SHEET
36" X 96" X 0.06"		2310	A		
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

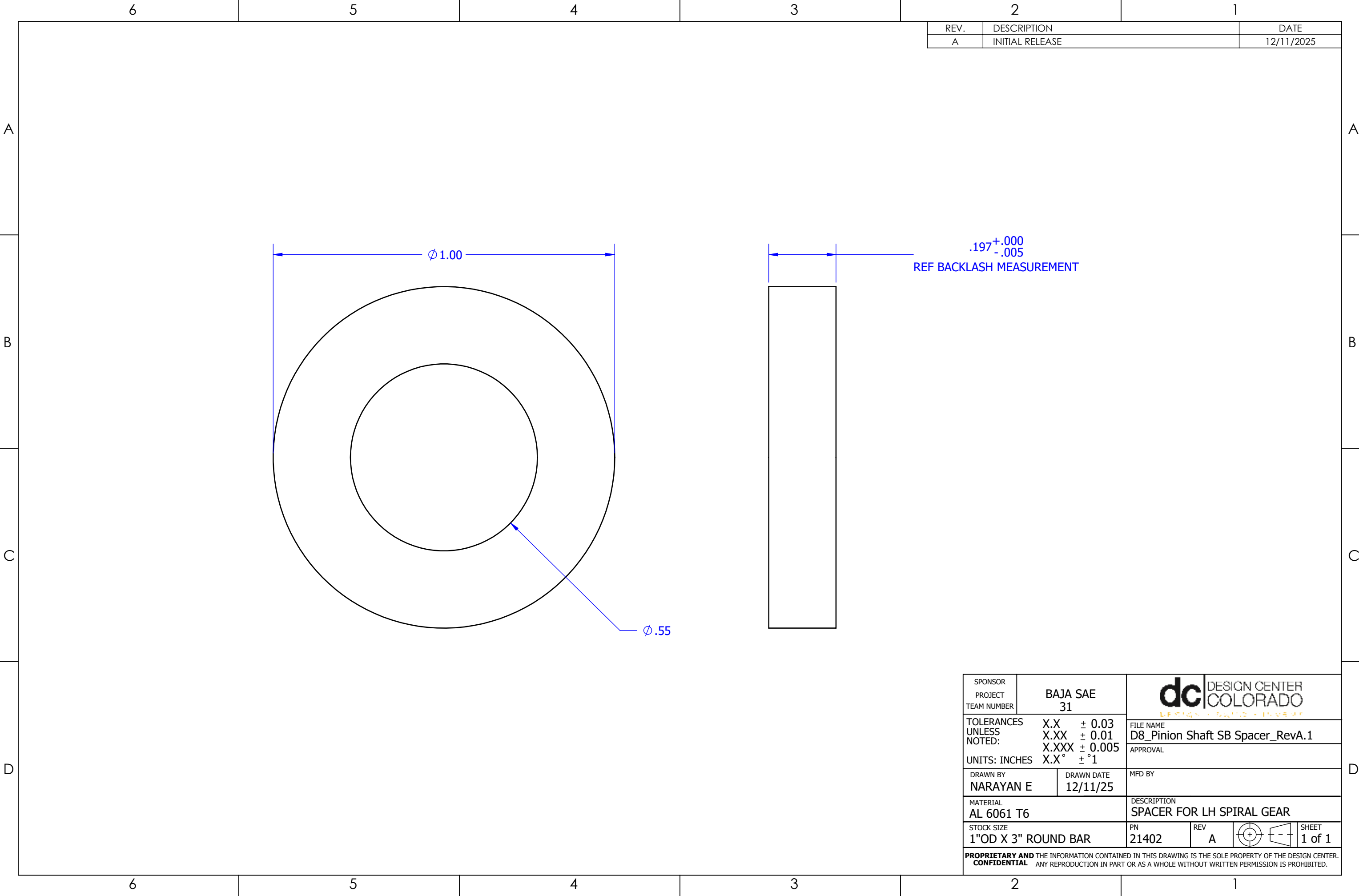


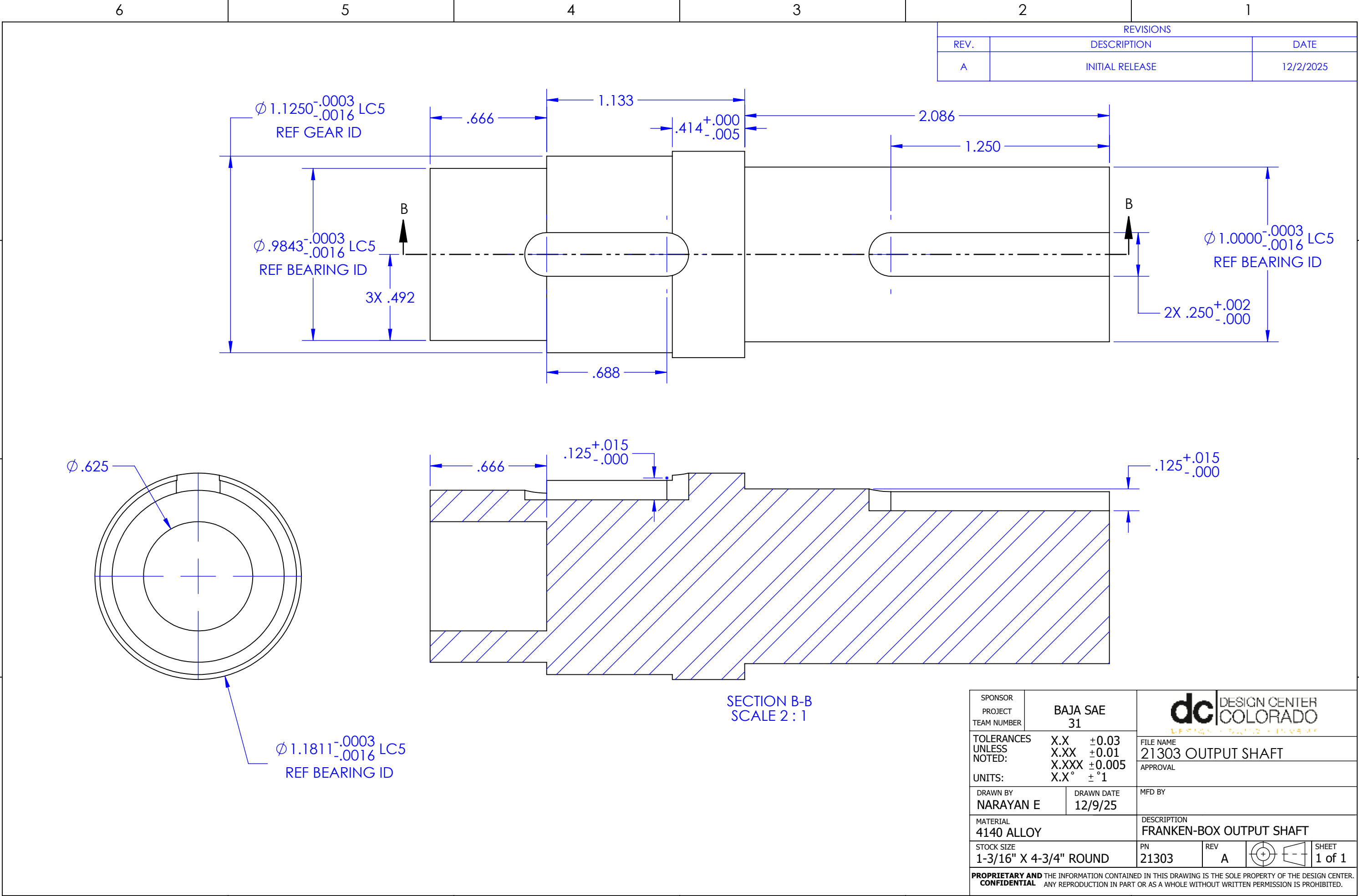








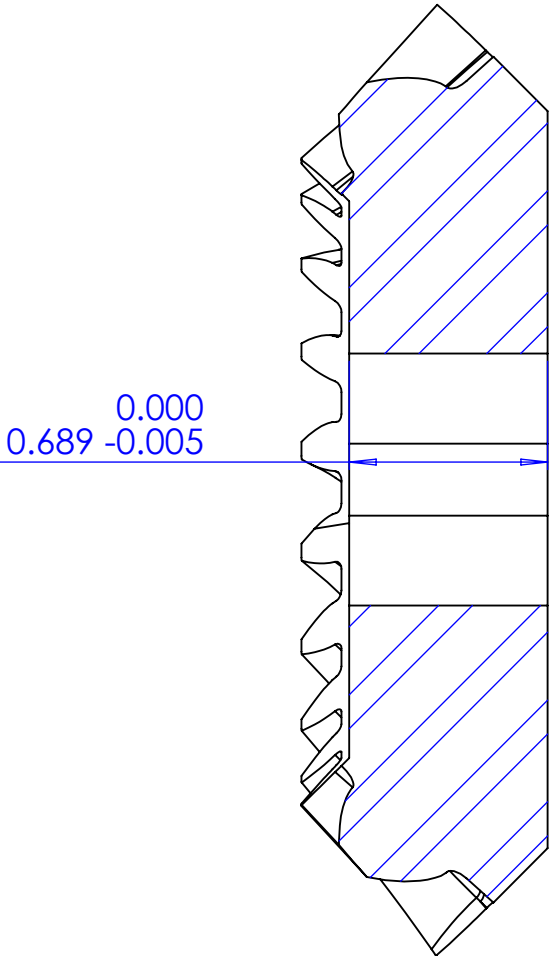
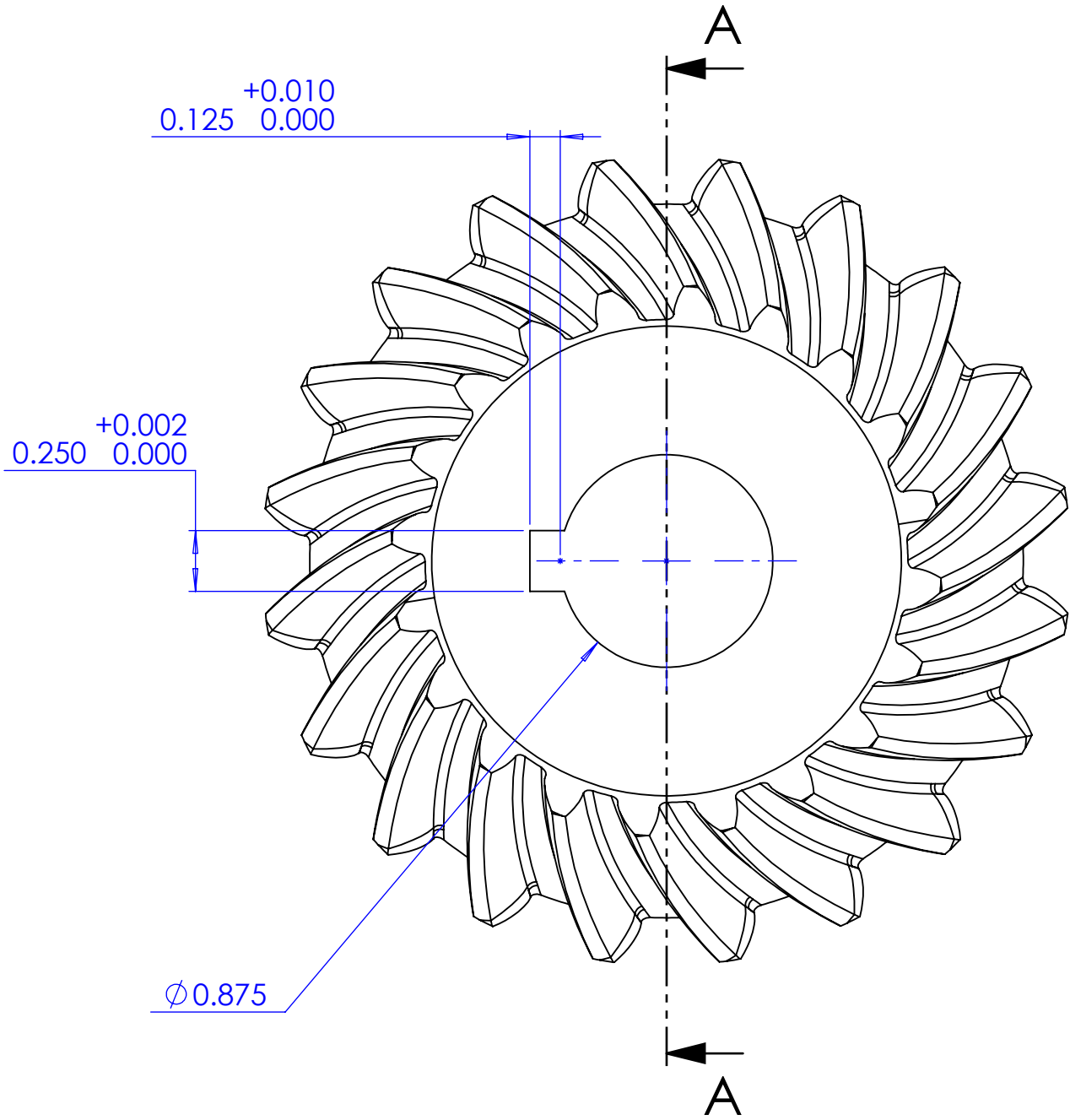




REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/2/2025

SPONSOR		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
PROJECT			
TEAM NUMBER			
BAJA SAE			
31			
TOLERANCES UNLESS NOTED:	X.X	±0.03	FILE NAME
	X.XX	±0.01	
	X.XXX	±0.005	APPROVAL
	X.X°	± 1	
UNITS:	X.X°	± 1	
DRAWN BY		DRAWN DATE	
NARAYAN E		12/9/25	
		MFD BY	
MATERIAL		DESCRIPTION	
4140 ALLOY		FRANKEN-BOX OUTPUT SHAFT	
STOCK SIZE		PN	REV
1-3/16" X 4-3/4" ROUND		21303	A
			
		SHEET	
		1 of 1	
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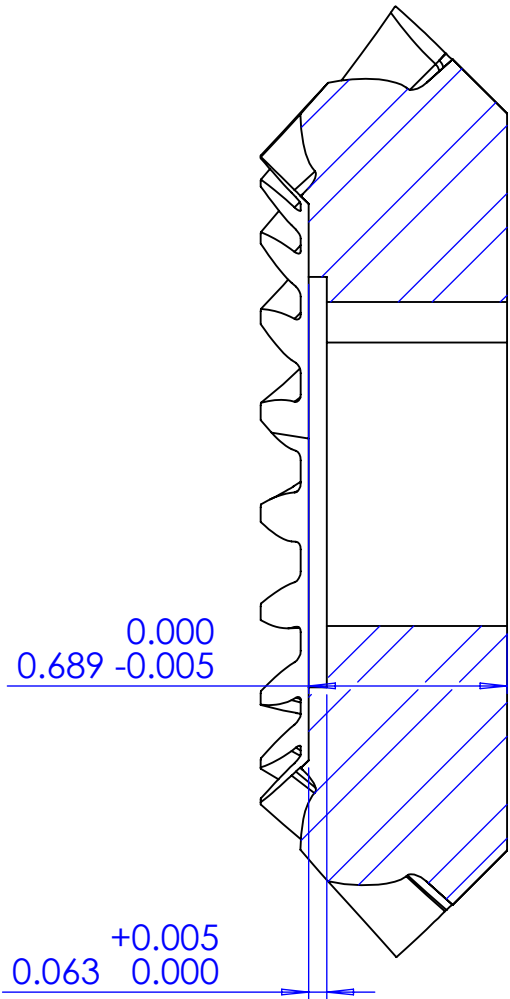
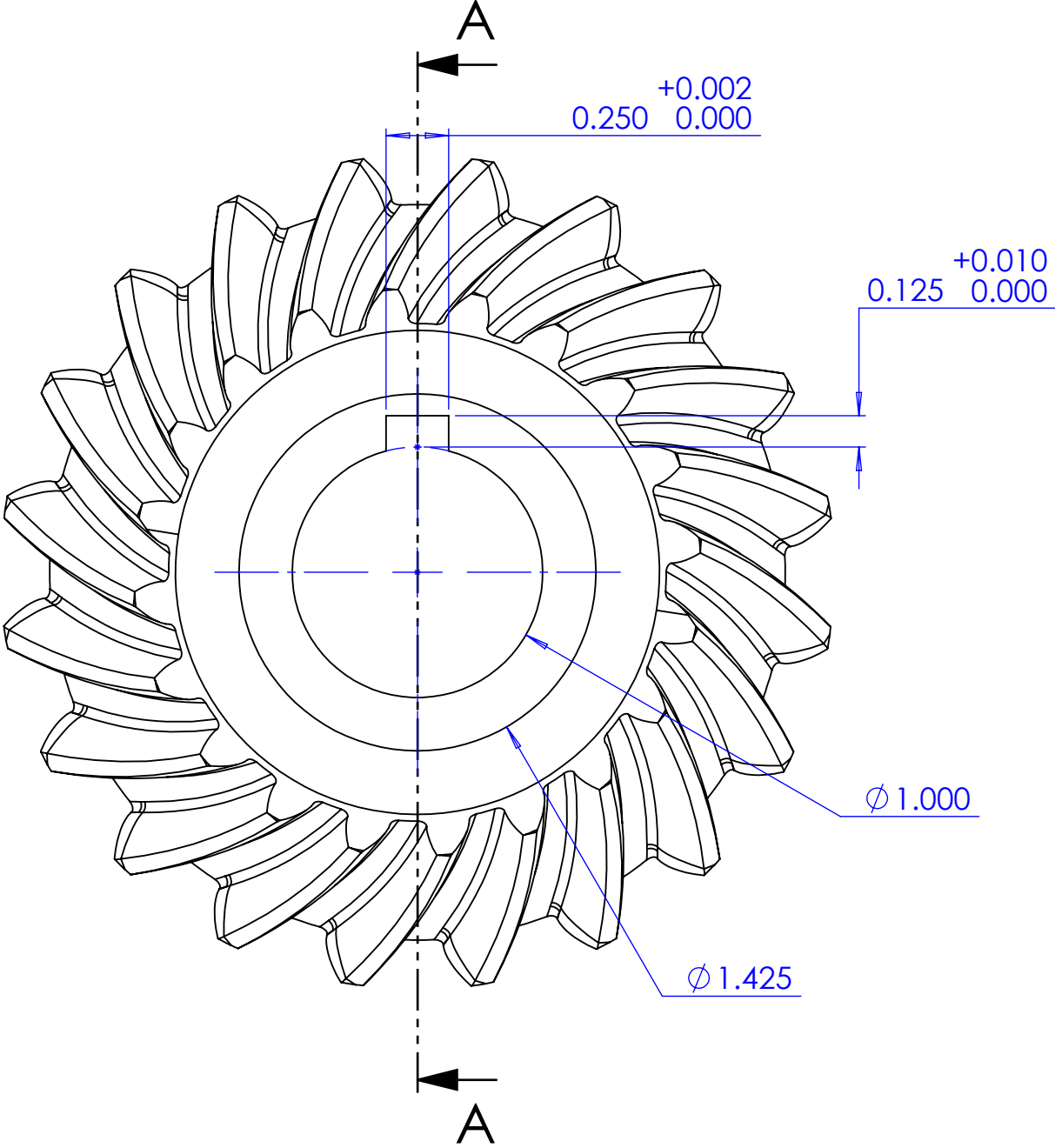
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025



SECTION A-A
SCALE 1.5 : 1

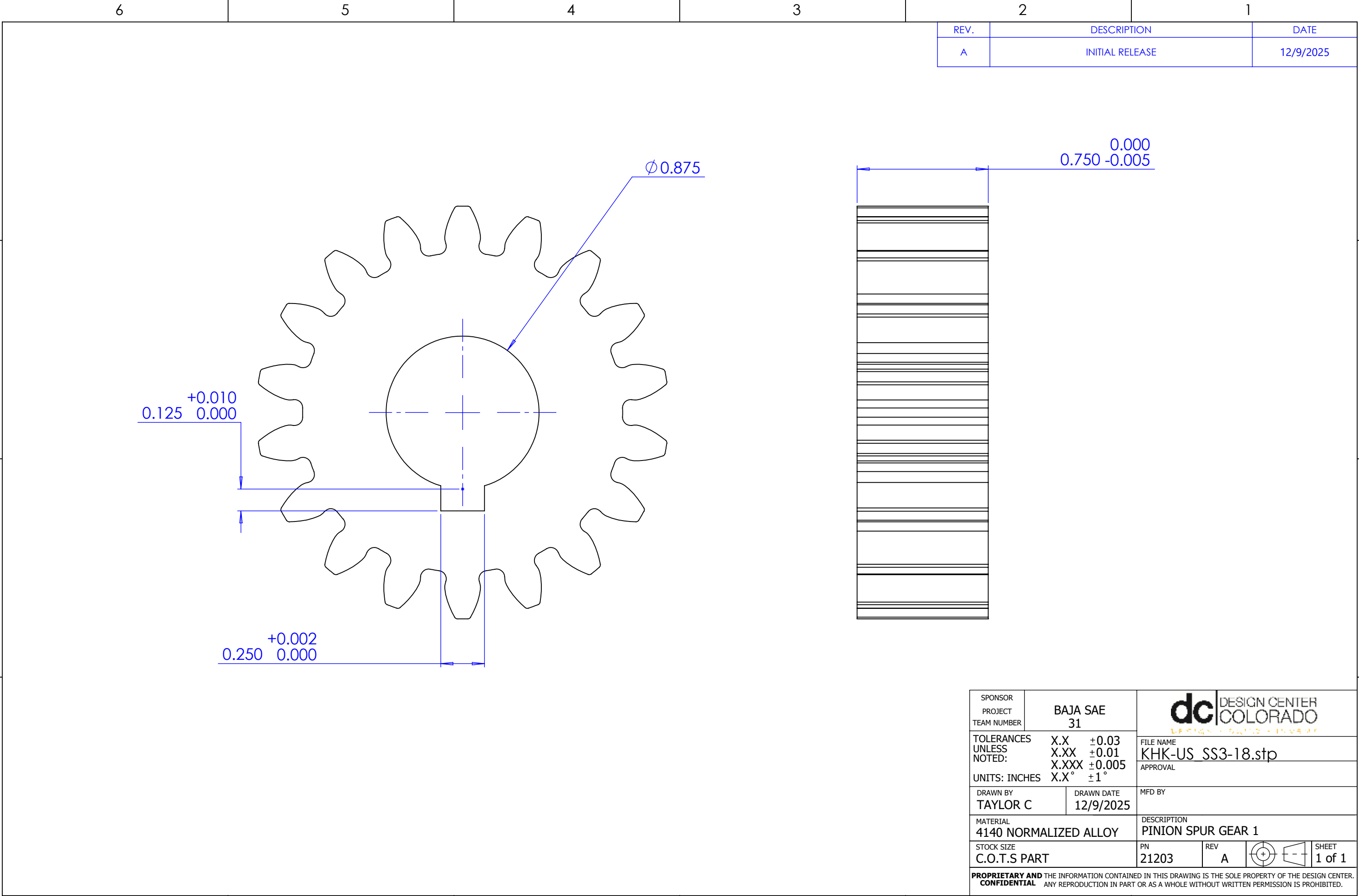
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT			
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005	FILE NAME KHK-US MMS4-20L.stp		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY TAYLOR C		DRAWN DATE 12/9/2025	MFD BY		
MATERIAL 4140 NORMALIZED ALLOY			DESCRIPTION PINION SPIRAL BEVEL GEAR		
STOCK SIZE C.O.T.S PART			PN 21202	REV A	SHEET 1 of 1
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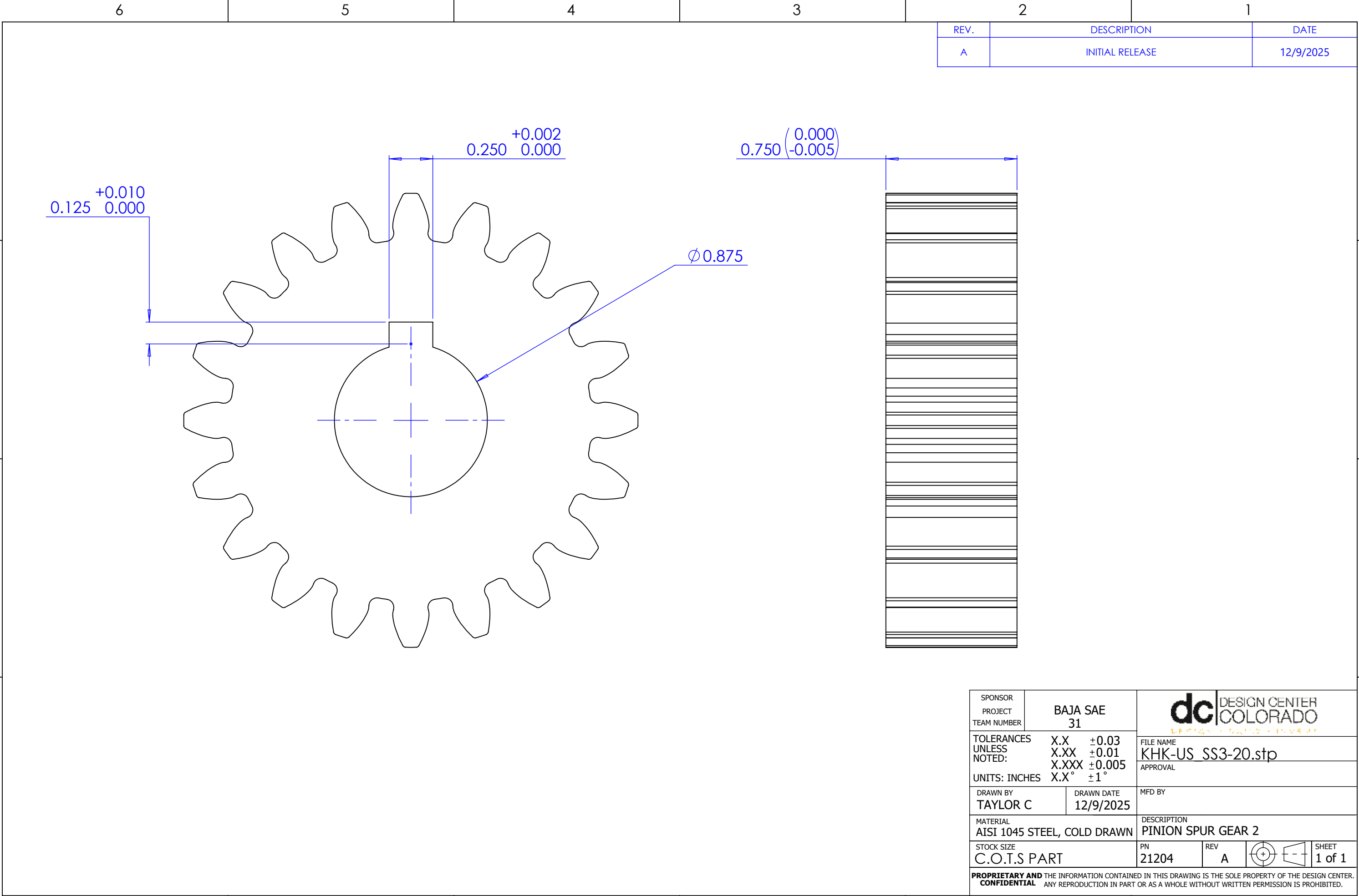
REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/9/2025

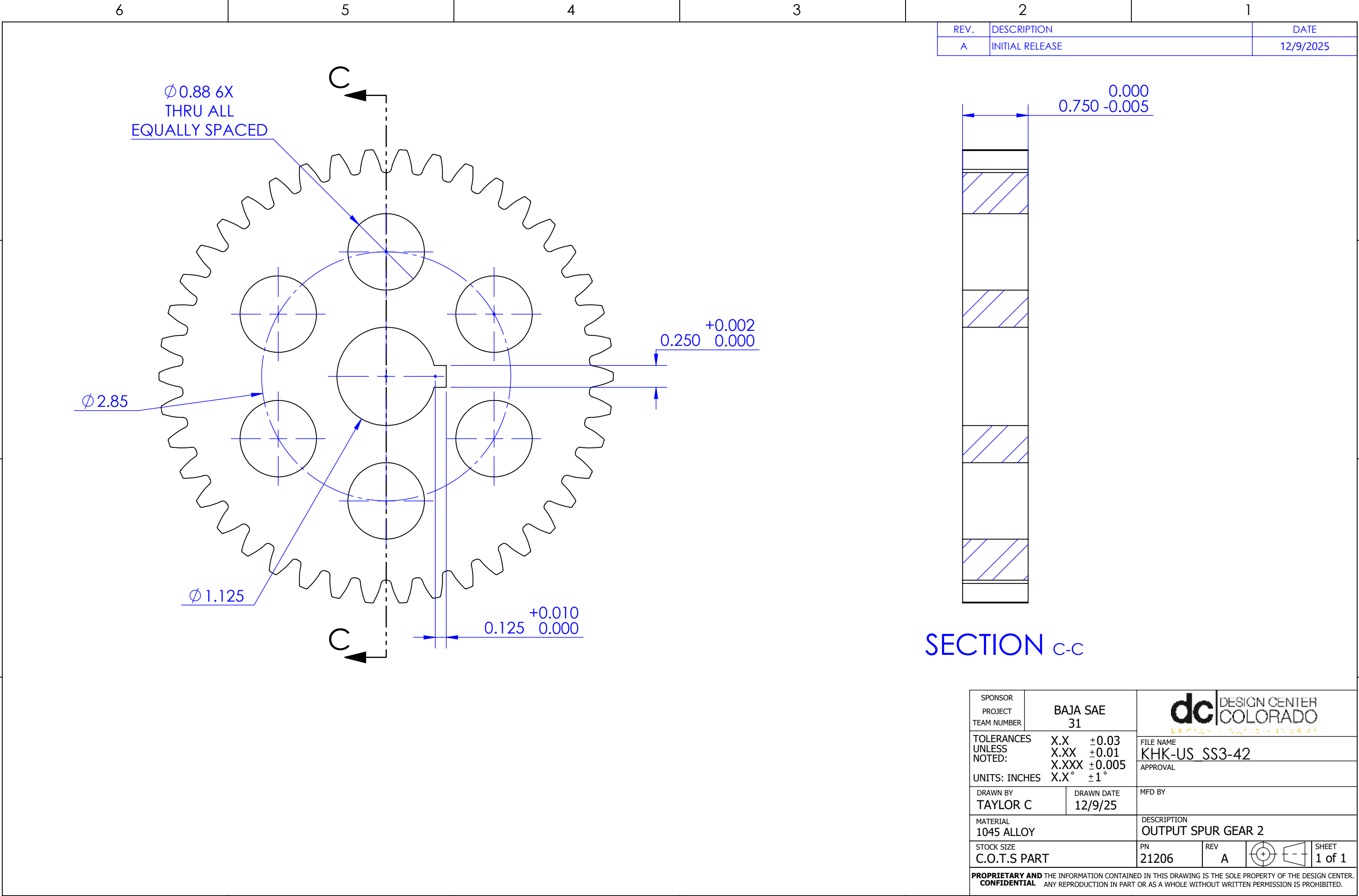


SECTION A-A
SCALE 1.5 : 1

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INSURE	
TOLERANCES UNLESS NOTED:		X.X ±0.03		FILE NAME	
		X.XX ±0.01		KHK-US MMS4-20R	
		X.XXX ±0.005		APPROVAL	
UNITS: INCHES		X.X° ±1°			
DRAWN BY TAYLOR C		DRAWN DATE 12/9/2025		MFD BY	
MATERIAL 4140 NORMALIZED ALLOY				DESCRIPTION INPUT SPIRAL BEVEL GEAR	
STOCK SIZE C.O.T.S PART				PN 21201	REV A
					SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					







REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

6X $\phi 0.88$
THRU ALL
EQUALLY SPACED

$\phi 3.00$

$\phi 1.125$

$+0.002$
 $0.250 \quad 0.000$

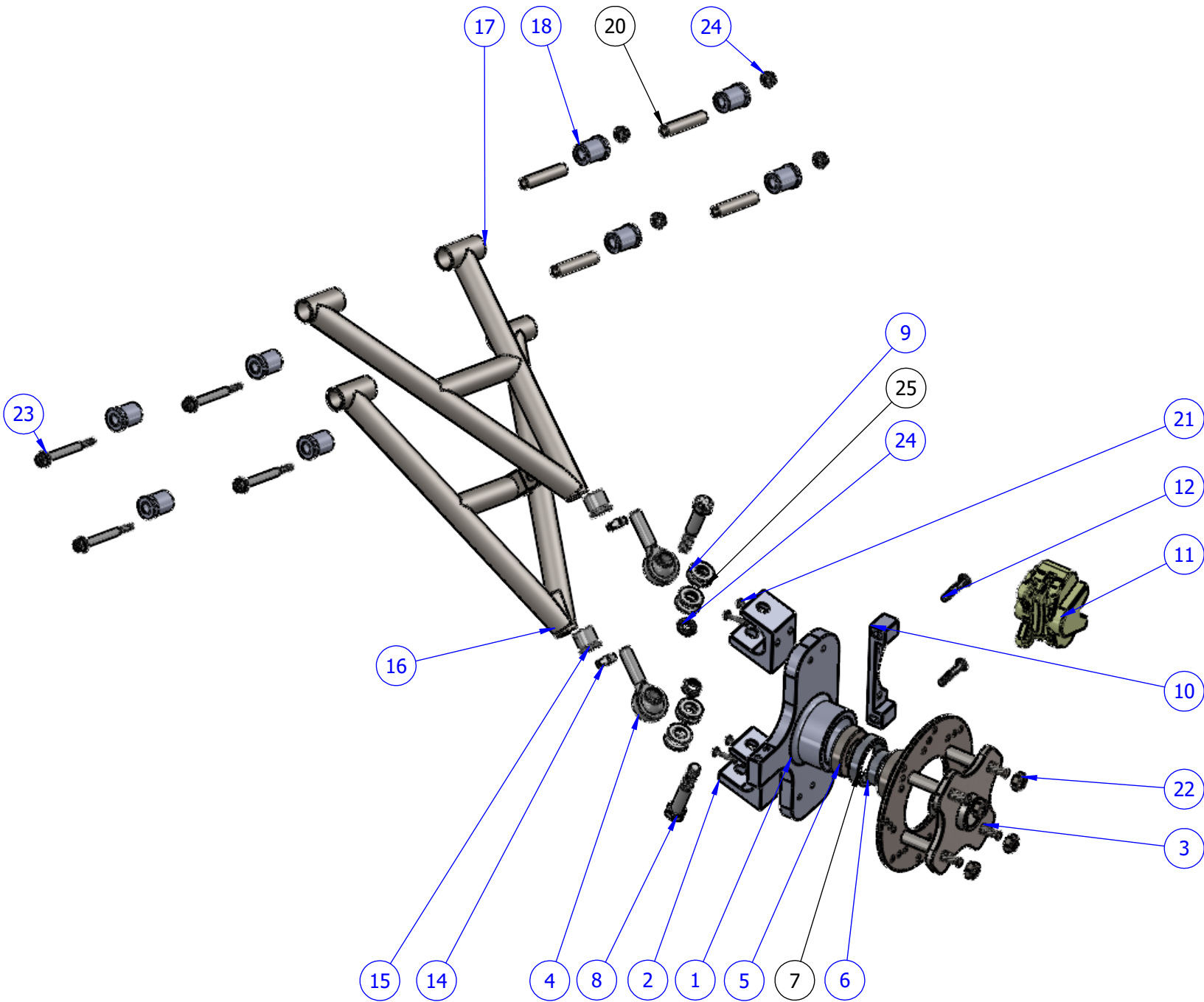
$+0.010$
 $0.125 \quad 0.000$

0.000
 $0.750 \quad -0.005$

SECTION A-A

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO			
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005	FILE NAME KHK-US SS3-44 SPUR GEAR		
UNITS: INCHES		X.X° $\pm 1^\circ$	APPROVAL		
DRAWN BY TAYLOR C		DRAWN DATE 12/9/25	MFD BY		
MATERIAL 1045 ALLOY			DESCRIPTION OUTPUT SPUR GEAR 1		
STOCK SIZE C.O.T.S PART			PN SS3-44	REV A	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6				5				4				3				2				1			
ITEM NO.		PART NUMBER		DESCRIPTION		QTY.																	
1		3101 or 3102		Upright		1																	
2		3103		Bracket Mounting Upright to Control Arms		2																	
3		brakes_grizzlyhub		Wheel Hub		1																	
4		HBBEM8		Super-Swivel Ball Joint Rod End		2																	
5		6006-2RS/C3		Wheel Bearing		2																	
6		3104		Inner Race Bearing Spacer		1																	
7		3105		Outer Race Bearing Spacer		1																	
8		91257A744		Zinc Yellow-Chromate Plated Hex Head Screw		2																	
9		98023A118		Zinc Yellow-Chromate Plated Grade 8 Steel Washer		4																	
10		3105		Bracket Mounting Brake to Upright		1																	
11		BKK-6373		Wilwood Brake		2																	
12		92095A294		Button Head Hex Drive Screw		2																	
13		91180A527		Medium-Strength Class 8.8 Steel Hex Head Screw		2																	
14		92052A210		High-Strength Steel Thin Hex Nuts-Grade 8		2																	
15		94640A240		Tube-End Weld Nut		2																	
16		3200		Lower Control Arm		1																	
17		3300		Upper Control Arm		1																	
18		3901		Delrin Bushing		8																	
19		3902		Bushing Inner Sleeve		4																	
24		94945A121		High-Strength Steel Thin Nylon-Insert Locknut		2																	
21		91255A542		Button Head Hex Drive Screw		4																	
22		4391N113		Yamaha Lug Nut		4																	
23		92316A317		Black-Phosphate Grade 8 Steel Screws		4																	
24		93298A204		Medium-Strength Steel Flange Nut		4																	
24		94945A121		Medium-Strenght Steel Low Profile Lock Nut		2																	
25		96853A169		Zinc Yellow-Chromate Plated Grade 8 Steel Shim		4																	



SPONSOR		BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT		
PROJECT					
TEAM NUMBER					
FILE NAME					
S_FrontASM_B.5					
DRAWN BY		DRAWN DATE	DESCRIPTION		
NATE S		12/1/25	FRONT RIGHT SUSPESION ASSEMBLY		
APPROVAL		PN	REV		
		3001	A	SHEET	
				1 of 1	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/21/2025

A

B

C

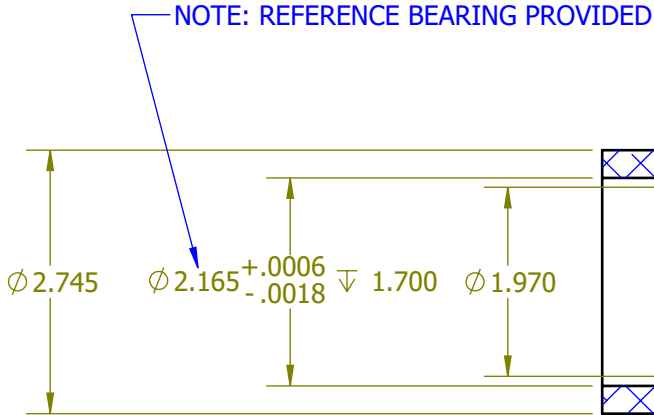
D

A

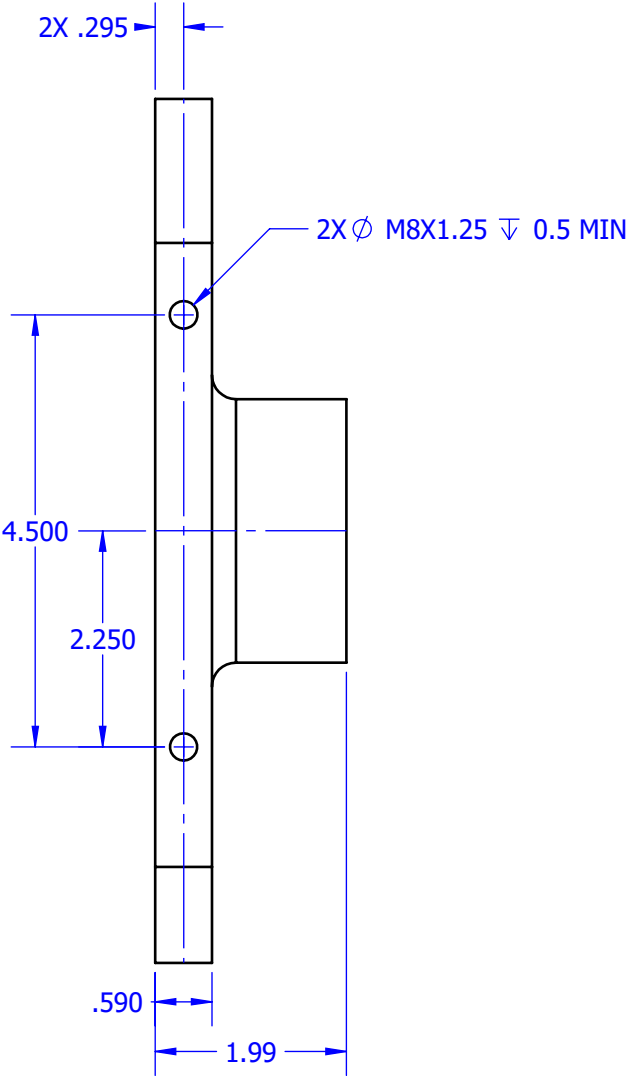
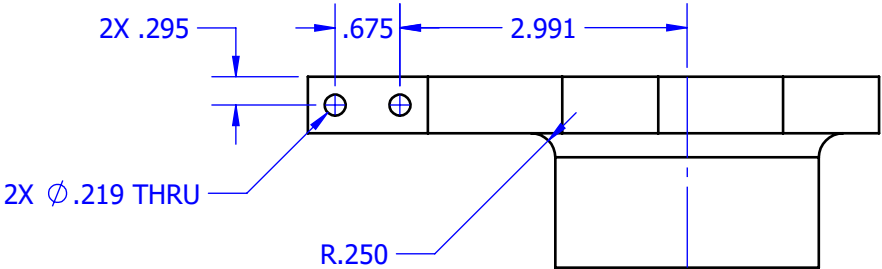
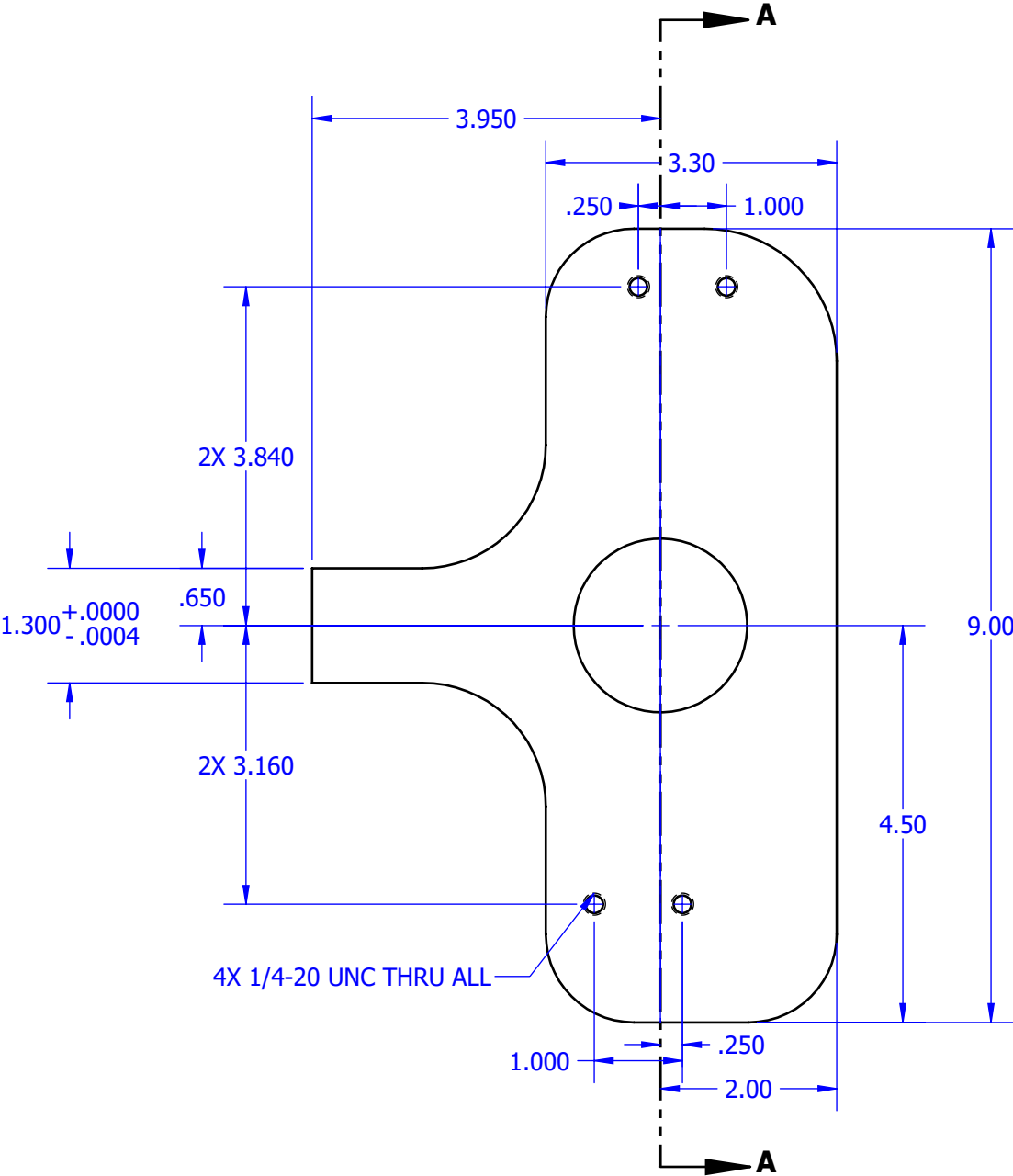
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C

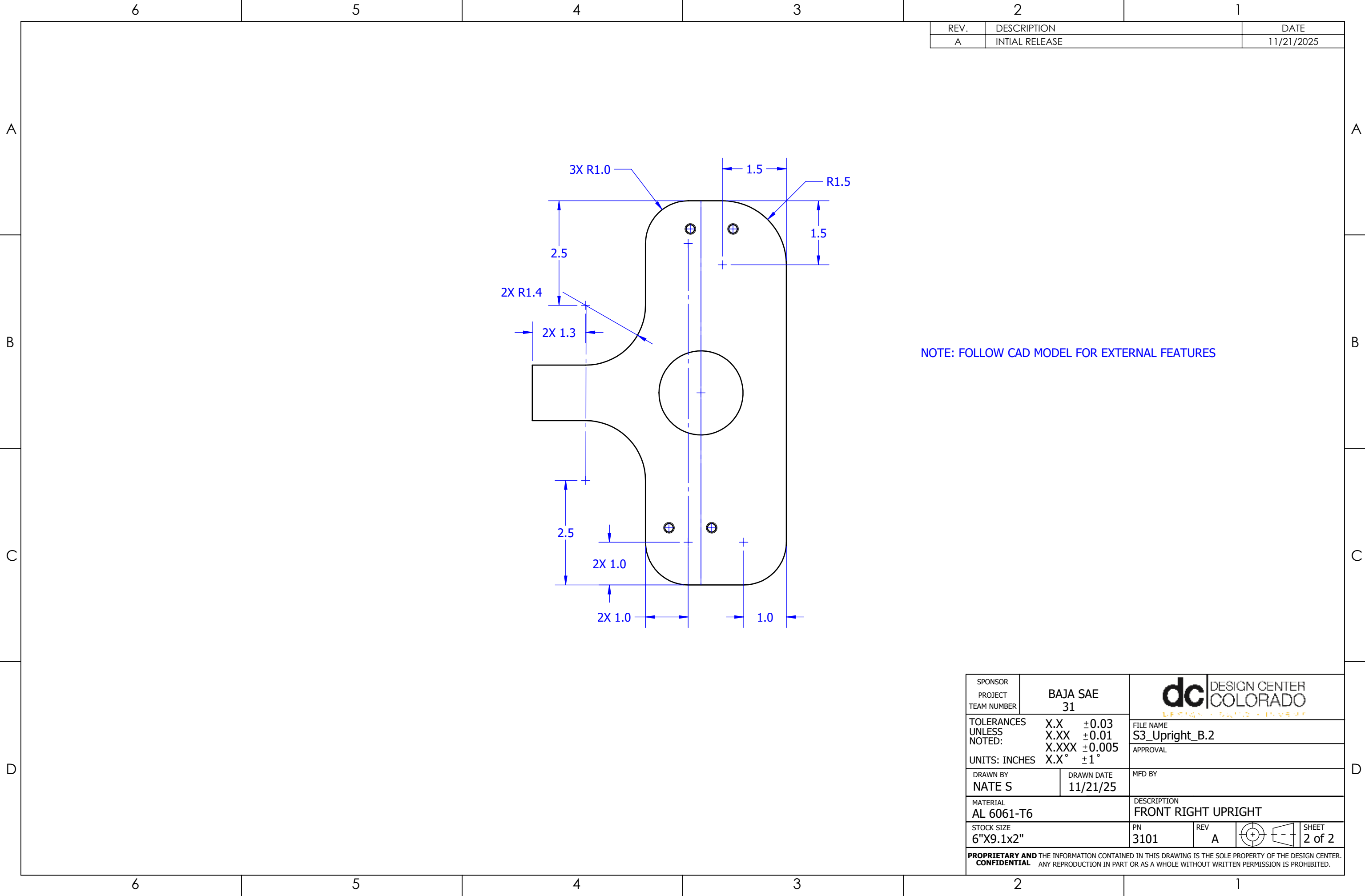
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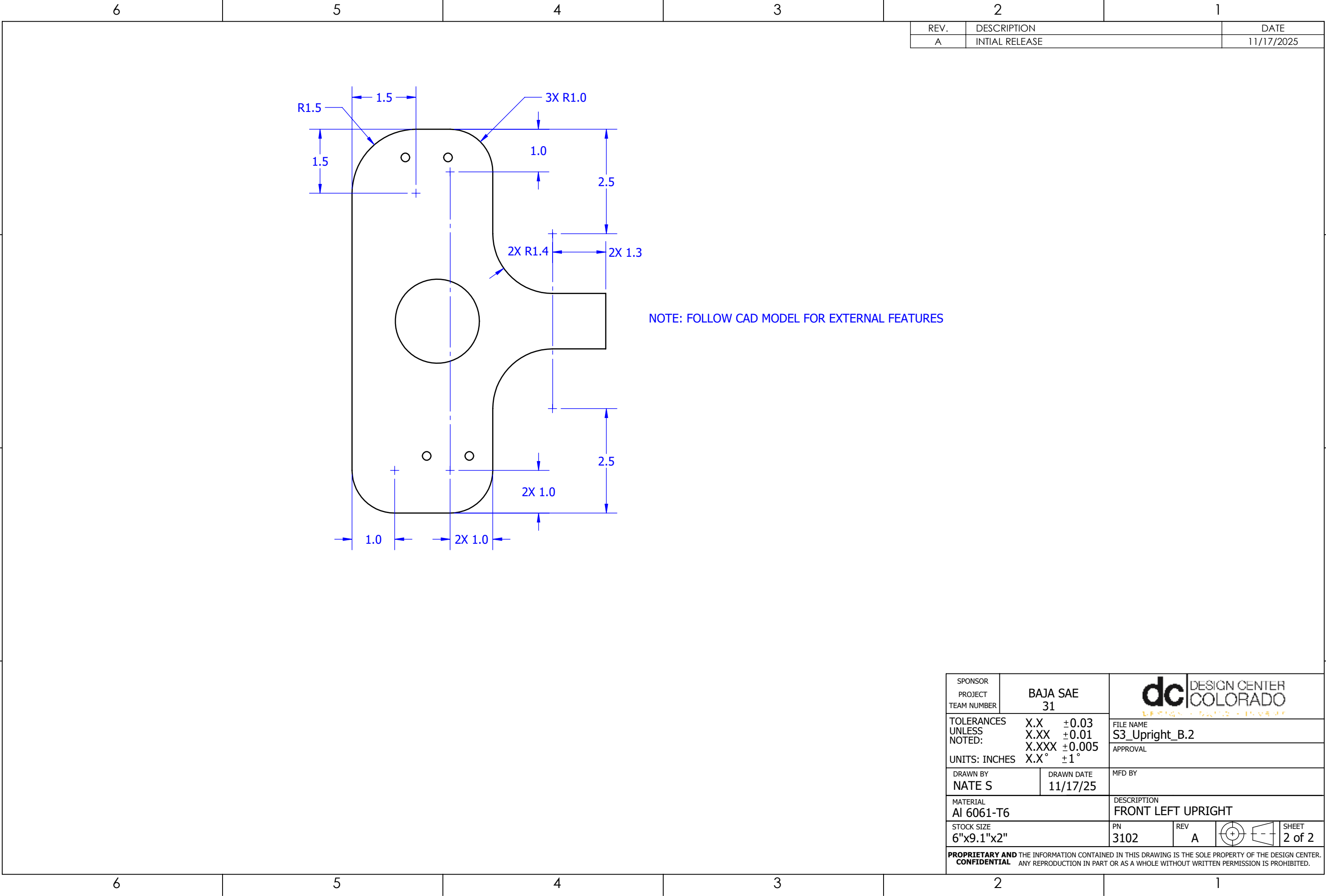


SECTION A-A



SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE MOVE	
TOLERANCES UNLESS NOTED:		X.X ±0.03		FILE NAME	
		X.XX ±0.01		S3_Upright_B.2	
UNITS: INCHES		X.XXX ±0.005		APPROVAL	
		X.X° ±1°			
DRAWN BY NATE S		DRAWN DATE 11/21/25		MFD BY	
MATERIAL AL 6061-T6				DESCRIPTION FRONT RIGHT UPRIGHT	
STOCK SIZE 6"X9.1x2"		PN 3101		REV A	
SHEET 1 of 2					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

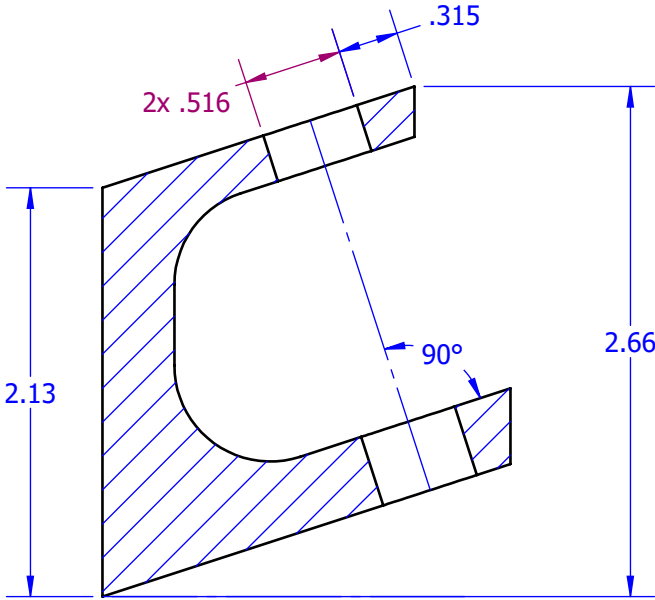
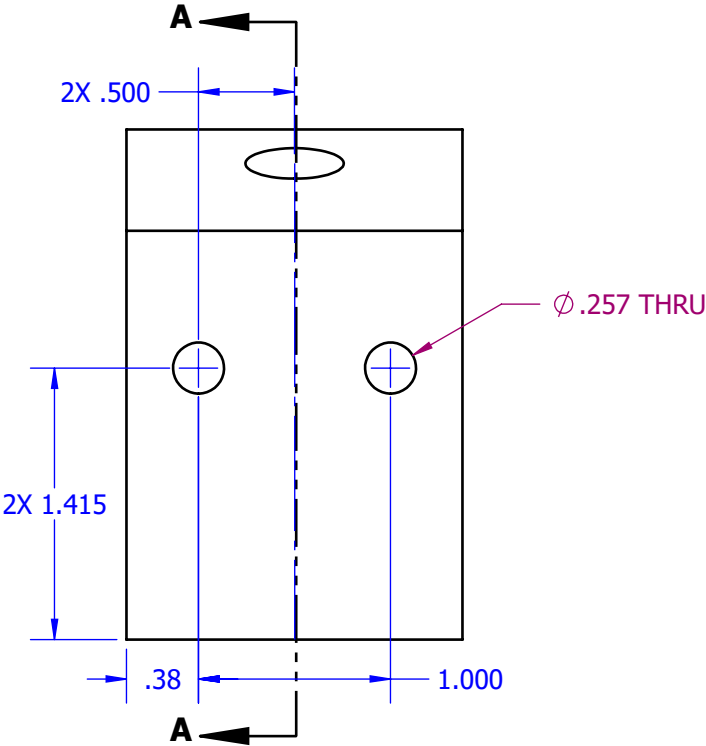
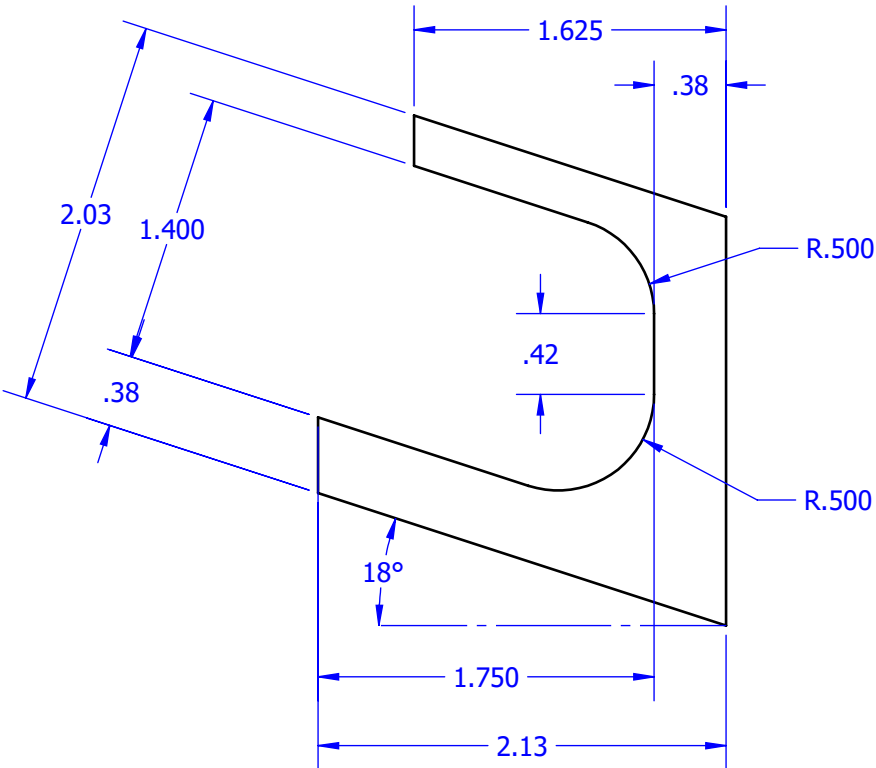




REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/17/2025

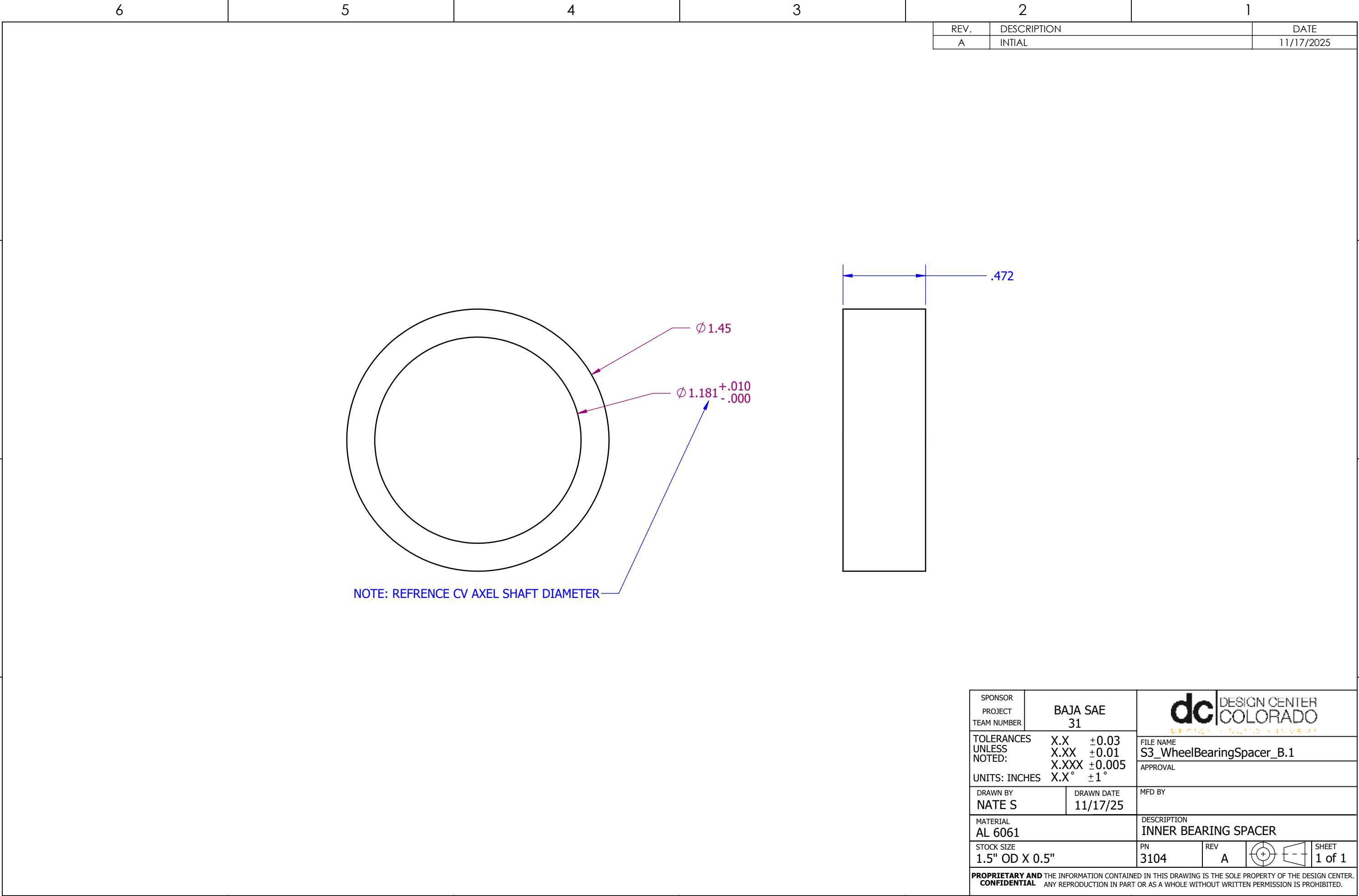
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • IMPROVE			
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005	FILE NAME S3_Upright_B.2		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY NATE S		DRAWN DATE 11/17/25	MFD BY		
MATERIAL Al 6061-T6			DESCRIPTION FRONT LEFT UPRIGHT		
STOCK SIZE 6"x9.1"x2"			PN 3102	REV A	SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

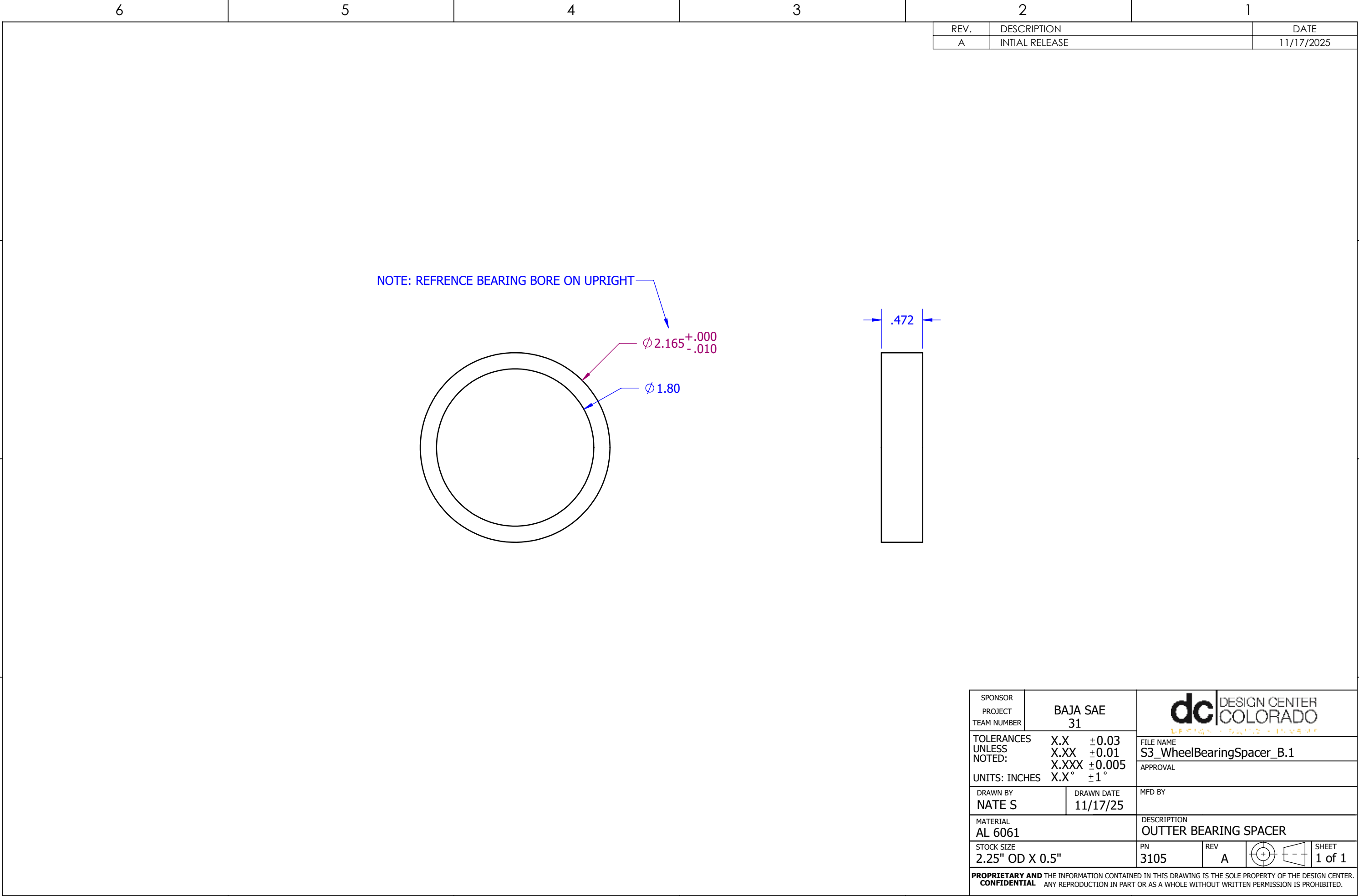
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/17/2025

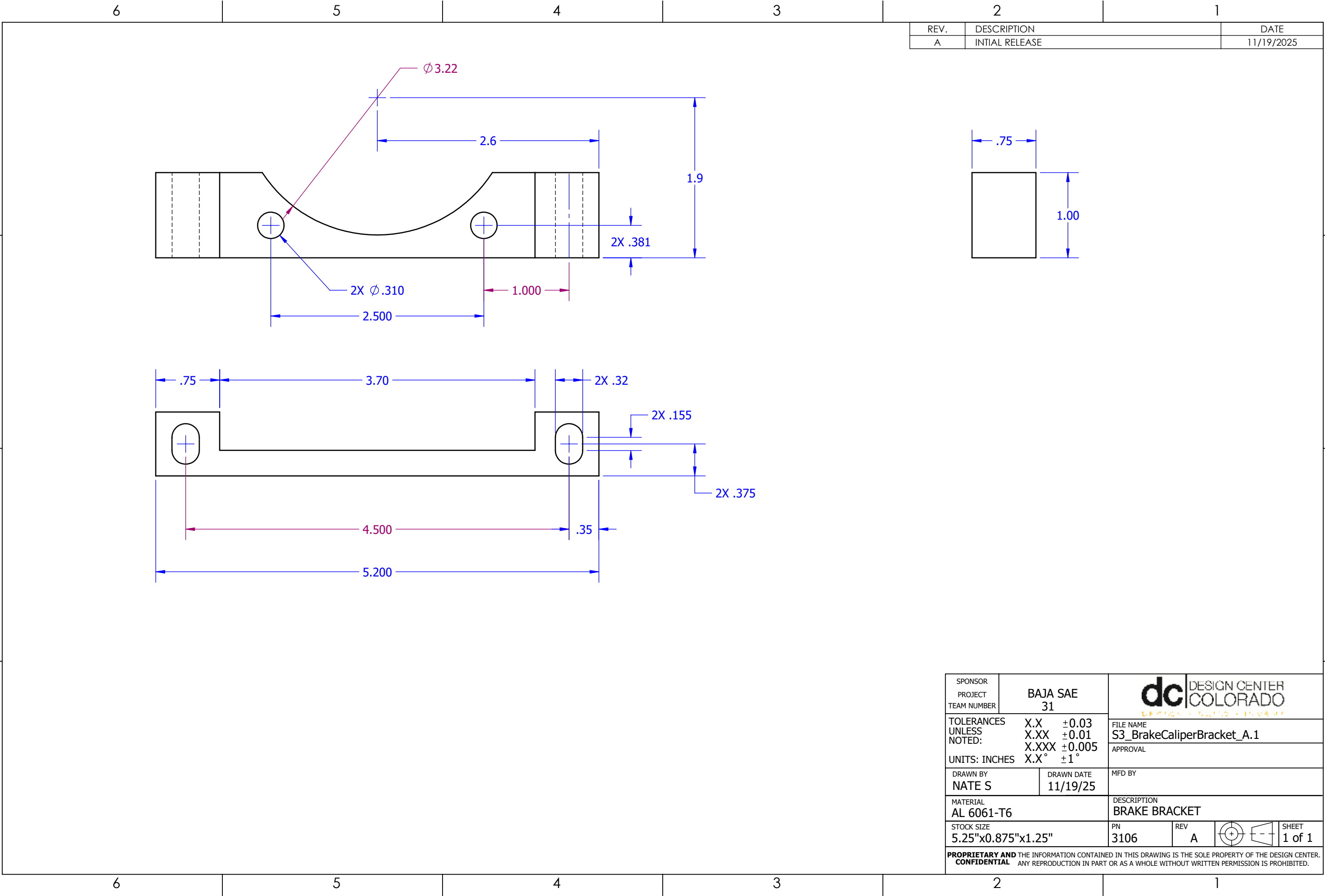


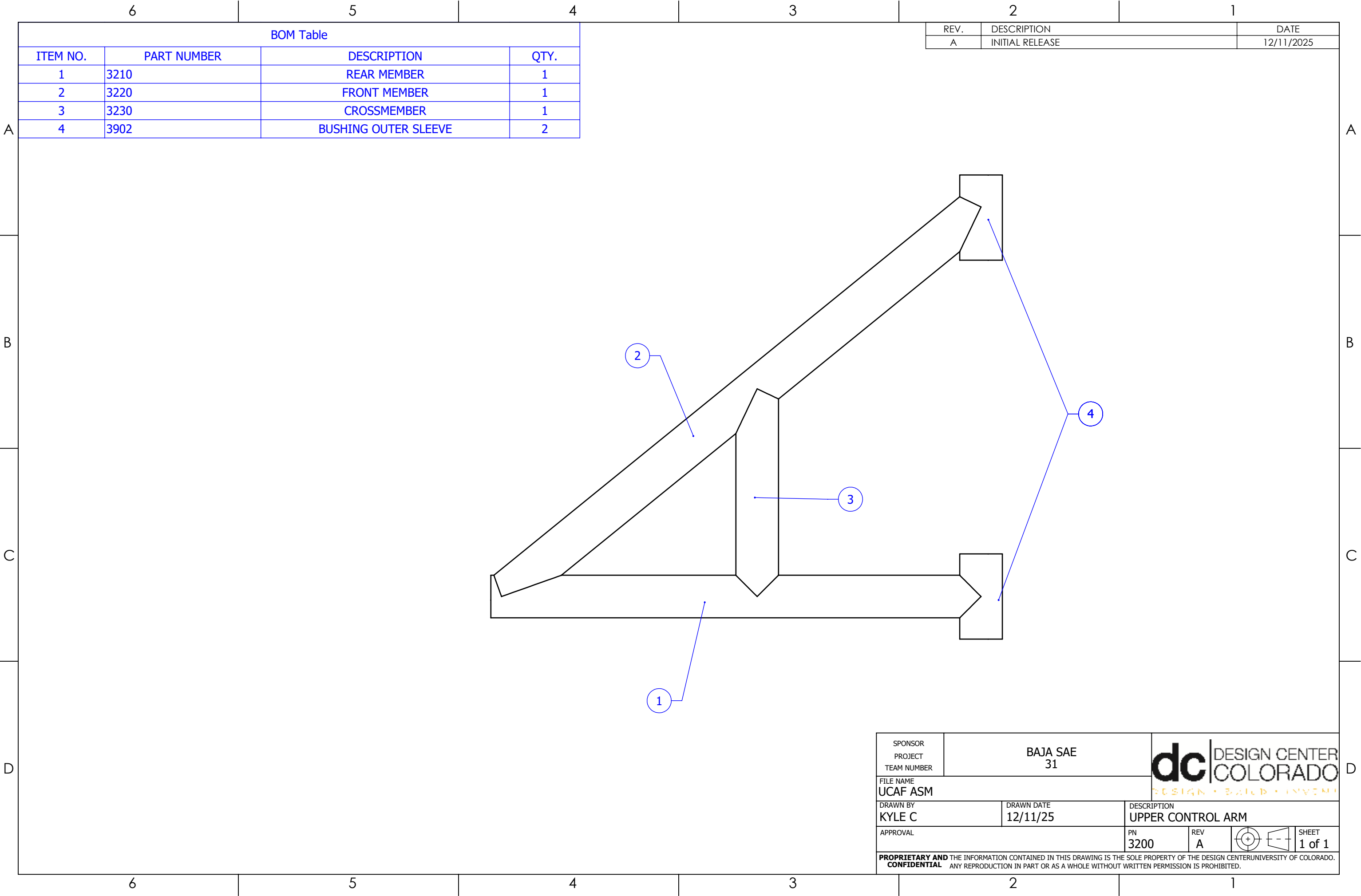
SECTION A-A

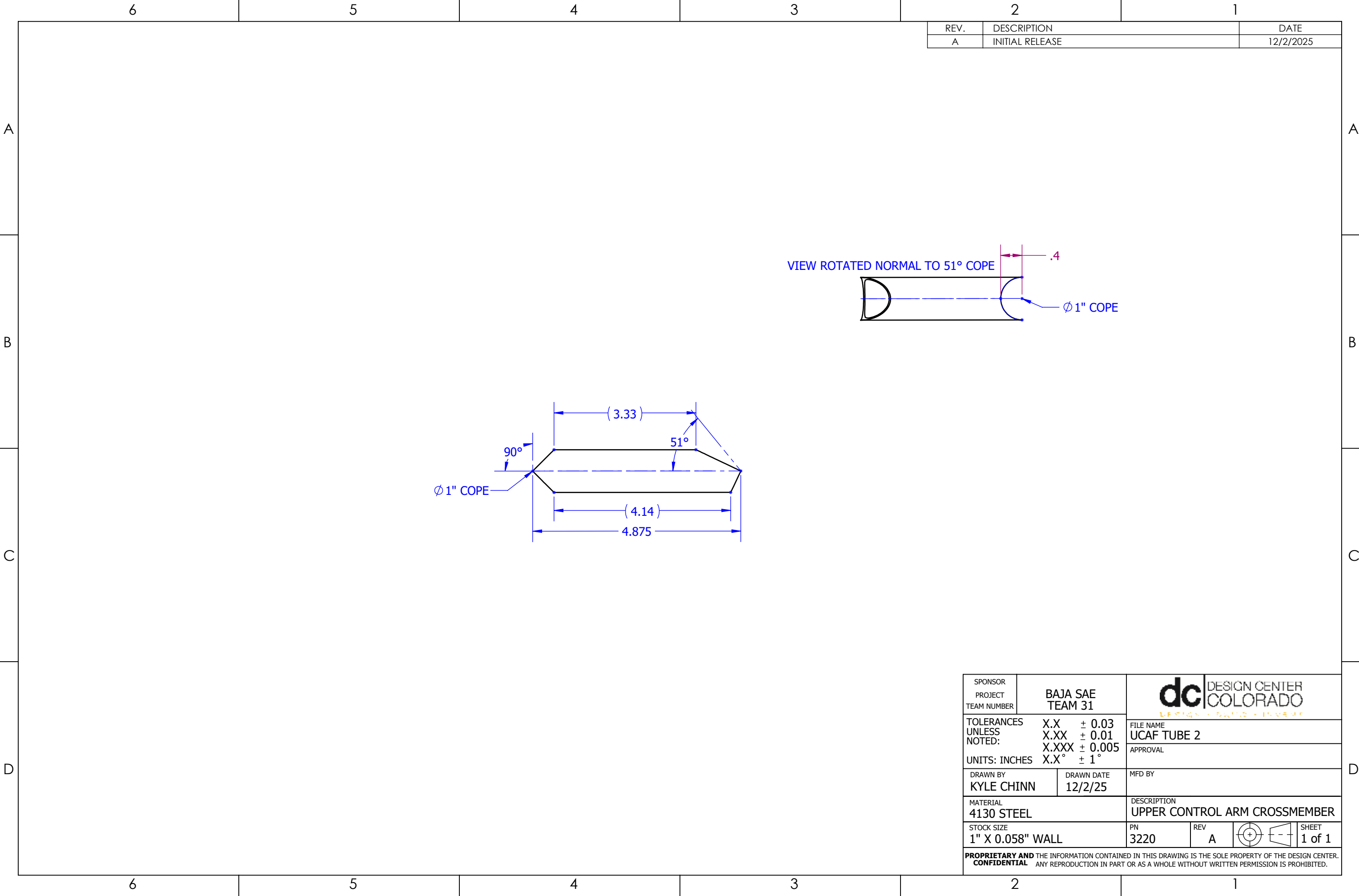
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • IMPROVE			
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005	FILE NAME S3_Upright18degreeTiltBracket_B.1		
UNITS: INCHES		X.X° ±1°	APPROVAL		
DRAWN BY NATE S		DRAWN DATE 11/17/25	MFD BY		
MATERIAL AL 6061-T6			DESCRIPTION UPRIGHT 18 DEGREE TILT BRACKET		
STOCK SIZE 3"x 3"x 2"			PN 3103	REV A	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					





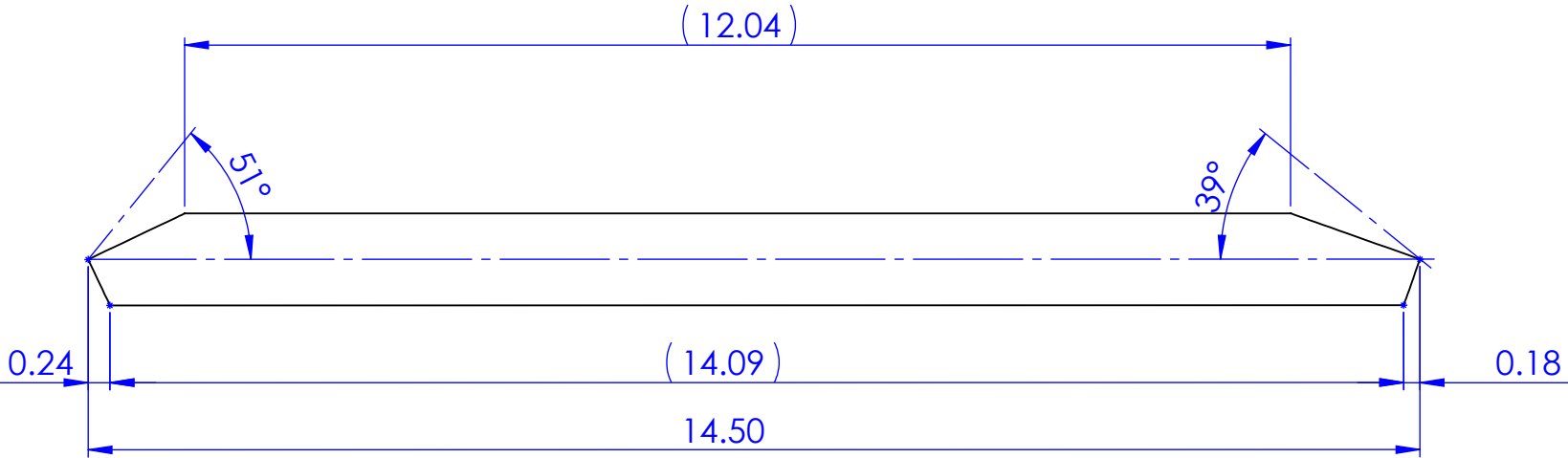
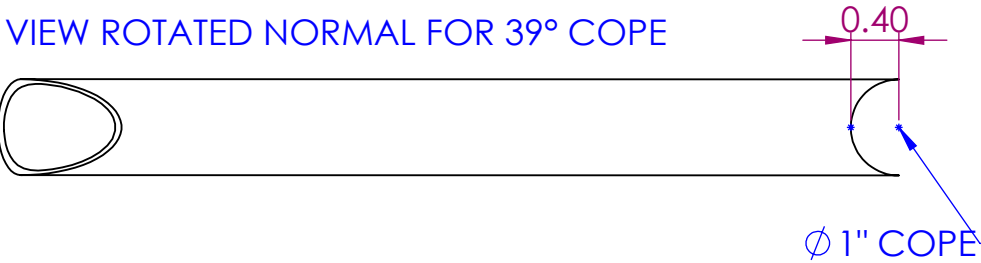




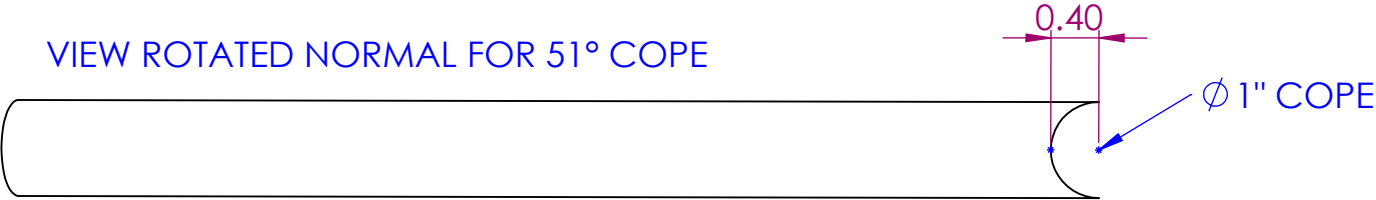


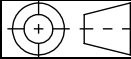
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/2/2025

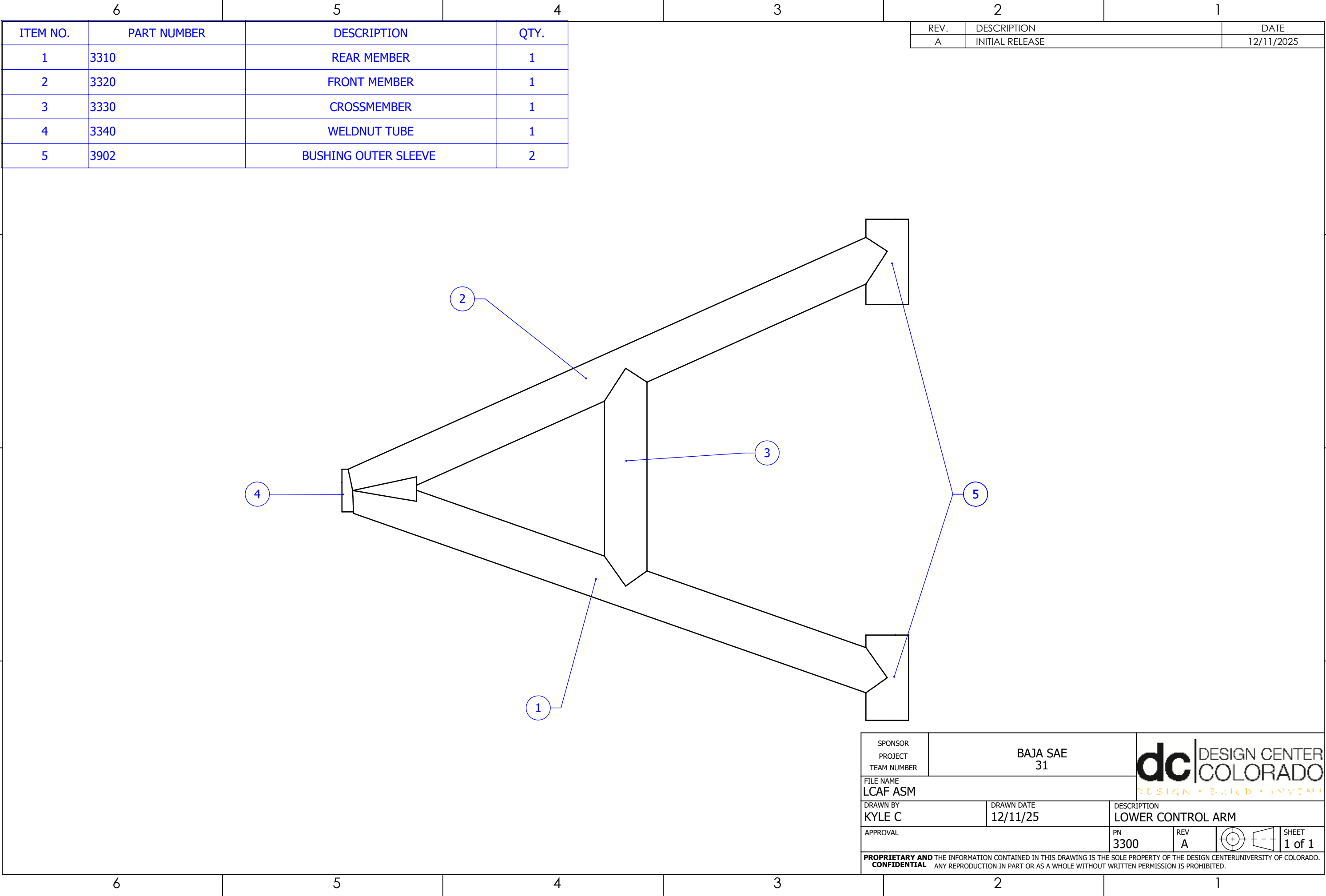
VIEW ROTATED NORMAL FOR 39° COPE

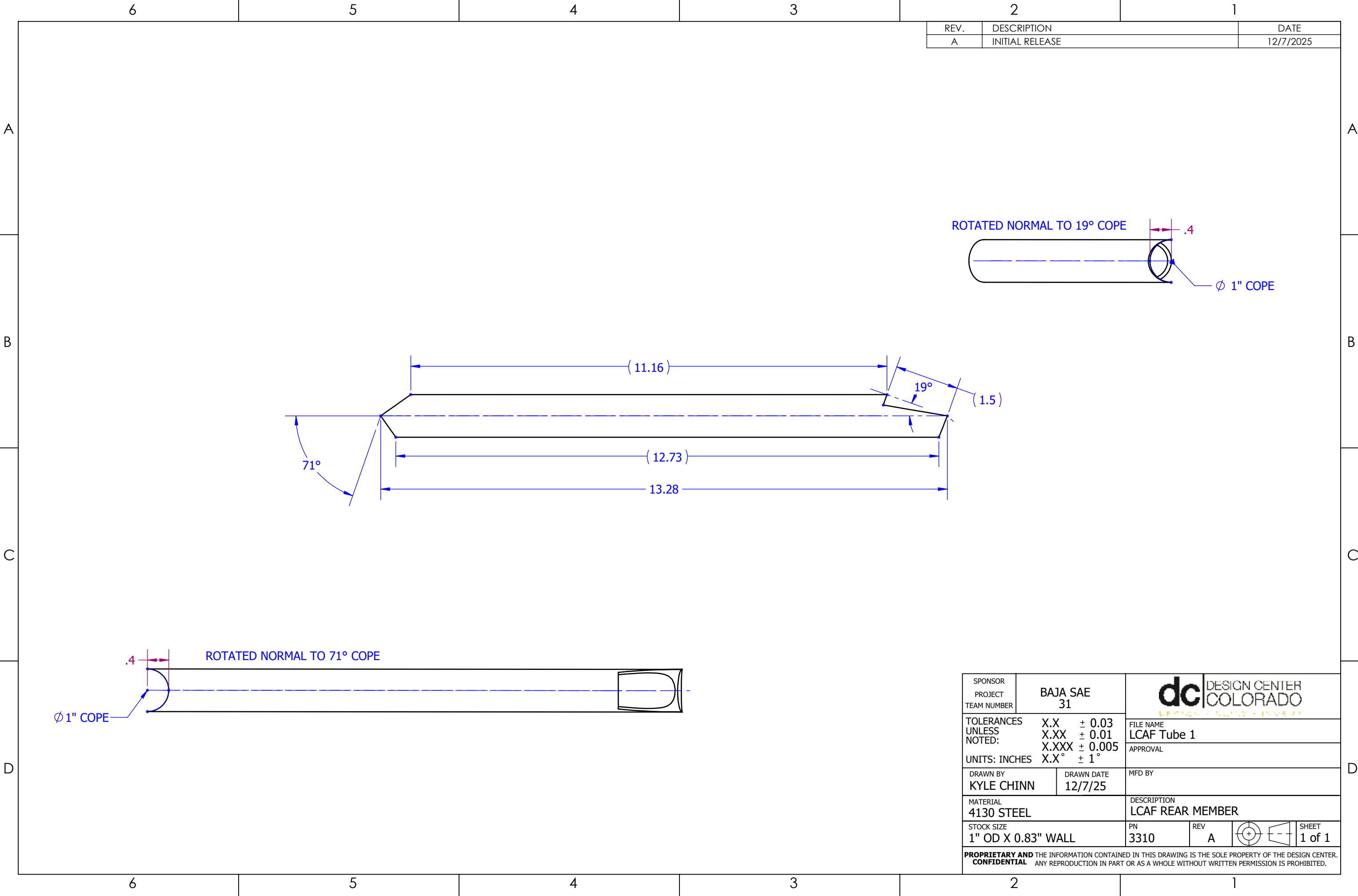


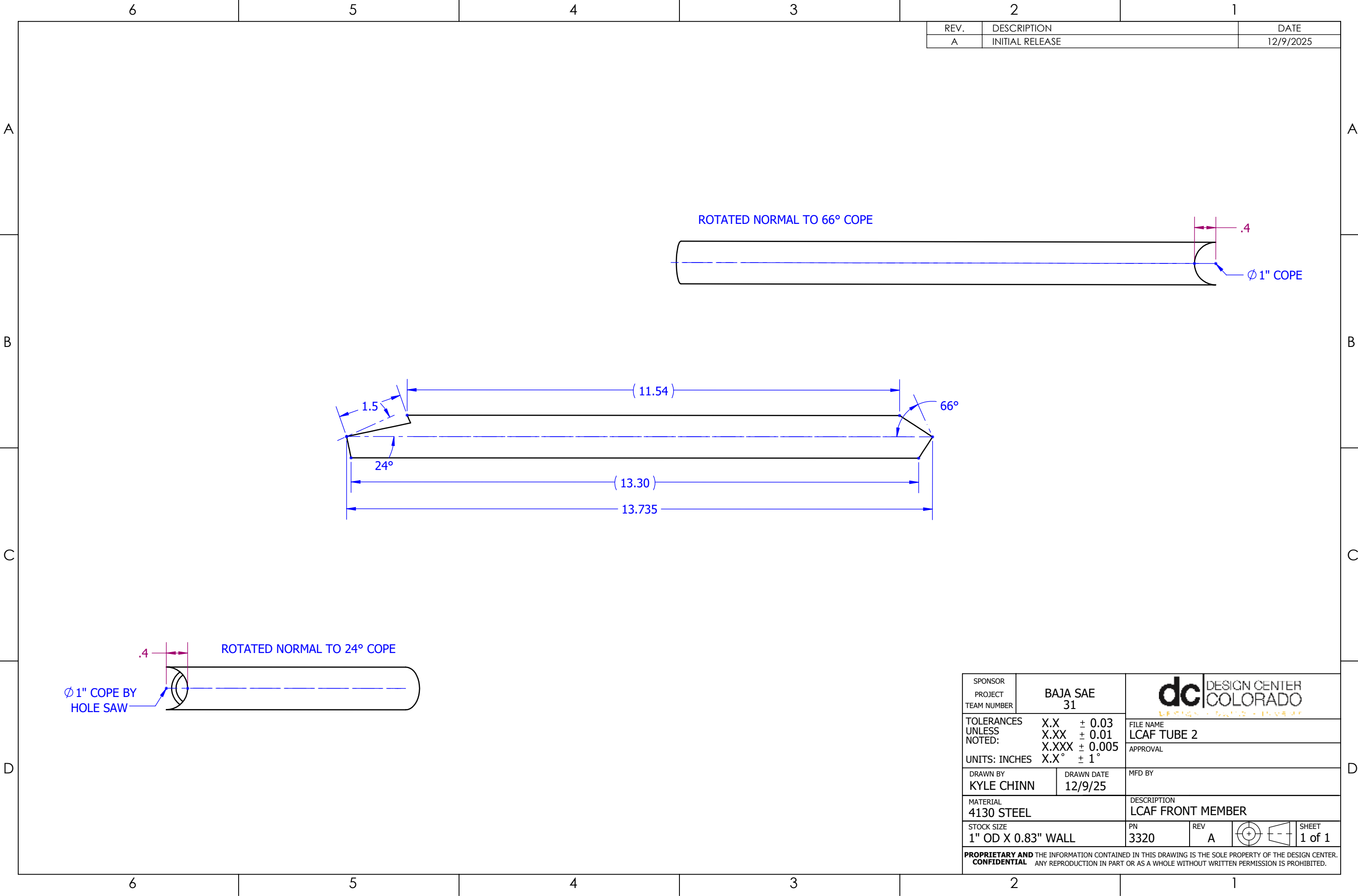
VIEW ROTATED NORMAL FOR 51° COPE



SPONSOR PROJECT TEAM NUMBER	BAJA SAE TEAM 31	 DESIGN CENTER COLORADO DESIGN • BUILD • INVENT			
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005	FILE NAME UCAF TUBE 3		
UNITS:		X.X° ± 1°	APPROVAL		
DRAWN BY KYLE CHINN		DRAWN DATE 12/2/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION UPPER CONTROL ARM FRONT MEMBER		
STOCK SIZE 1" X 0.058" WALL			PN 3230	REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

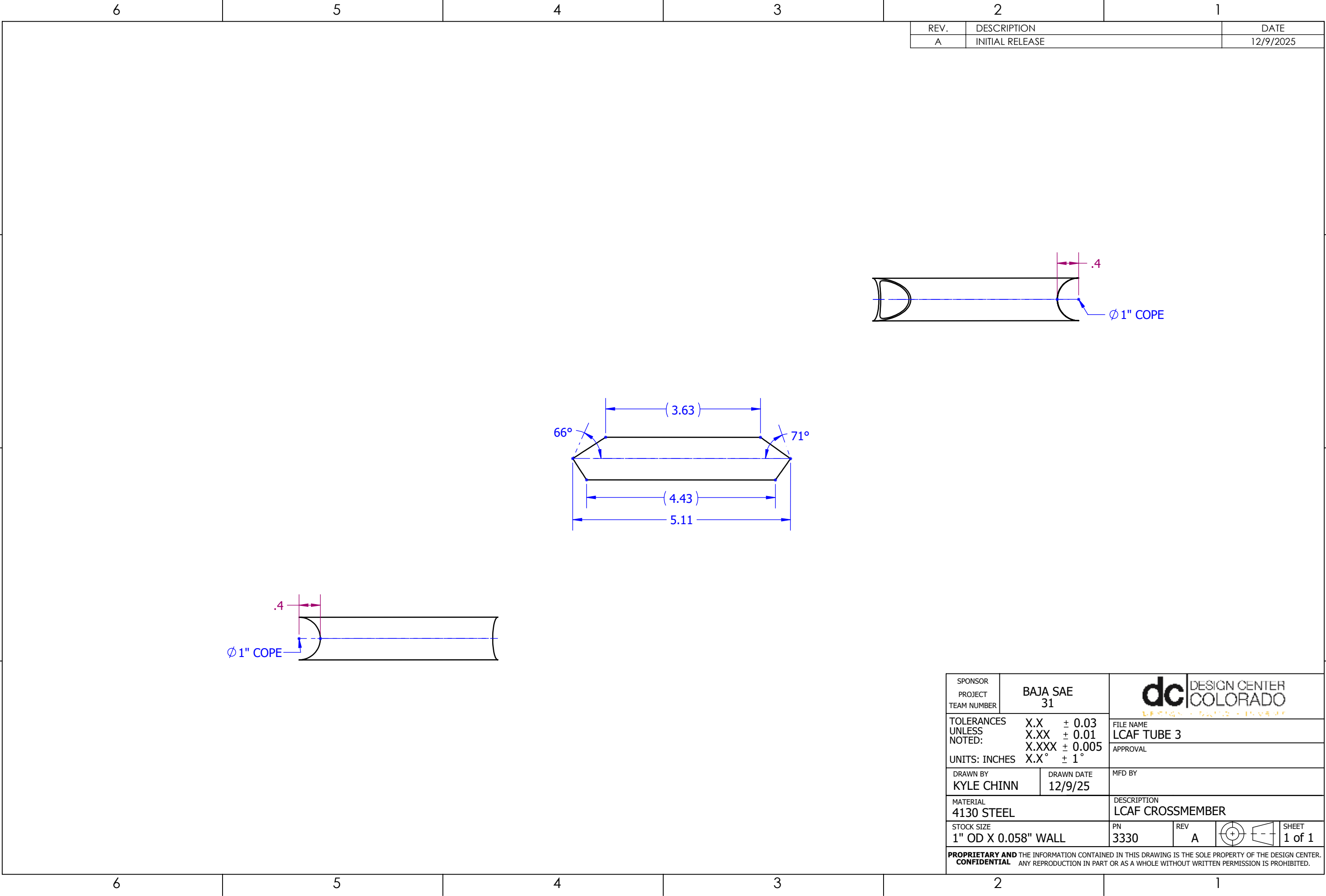


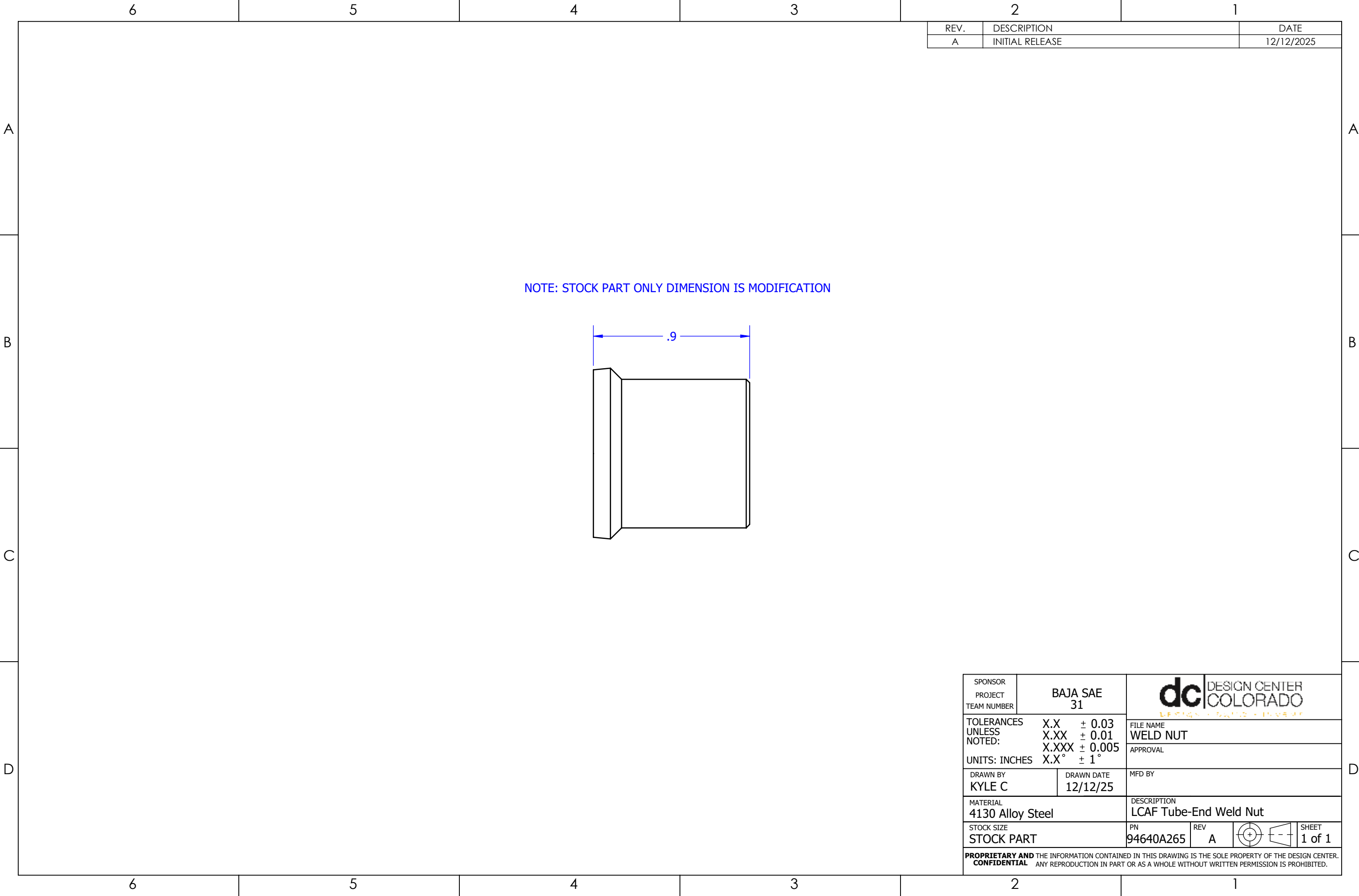


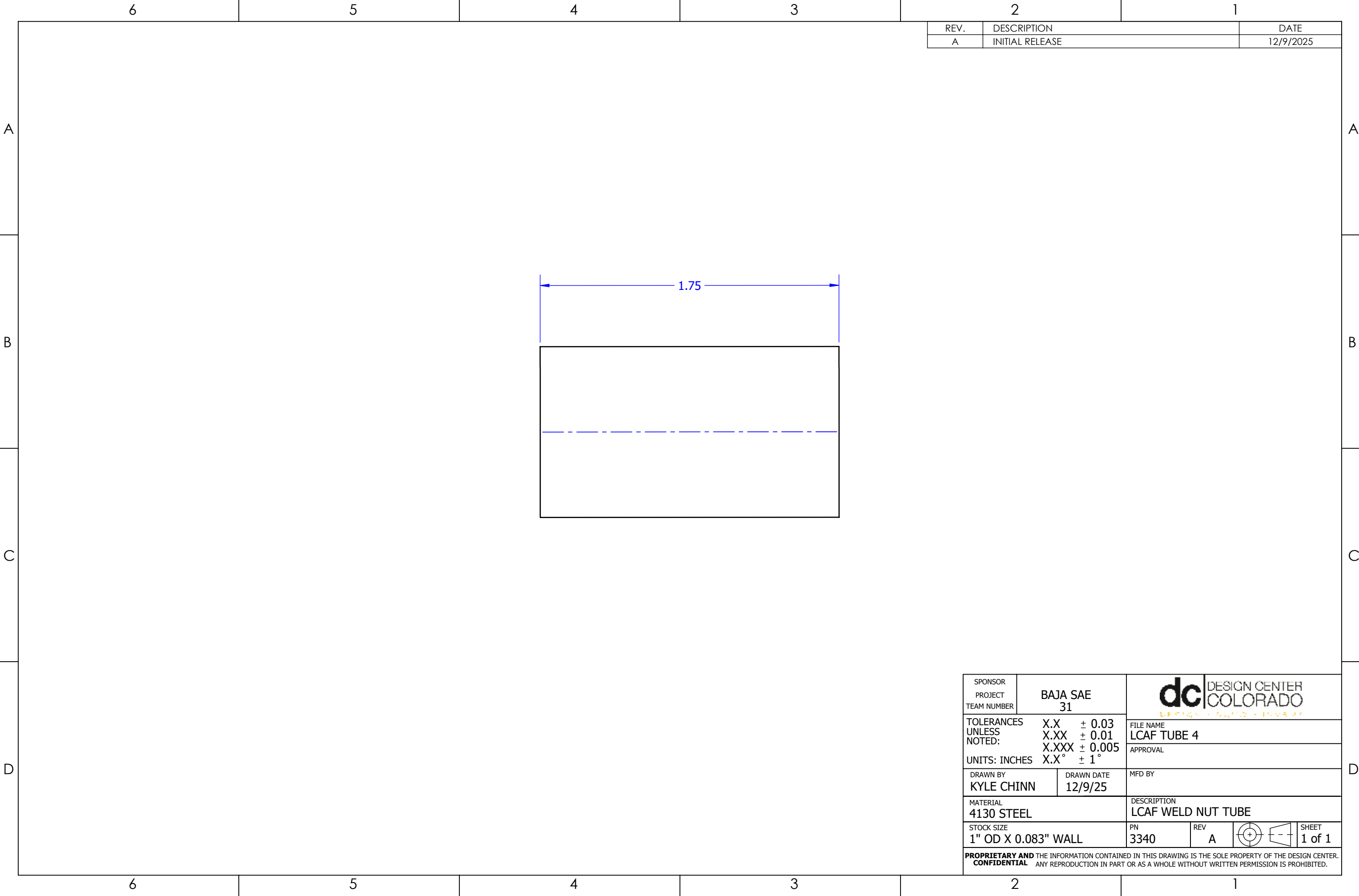


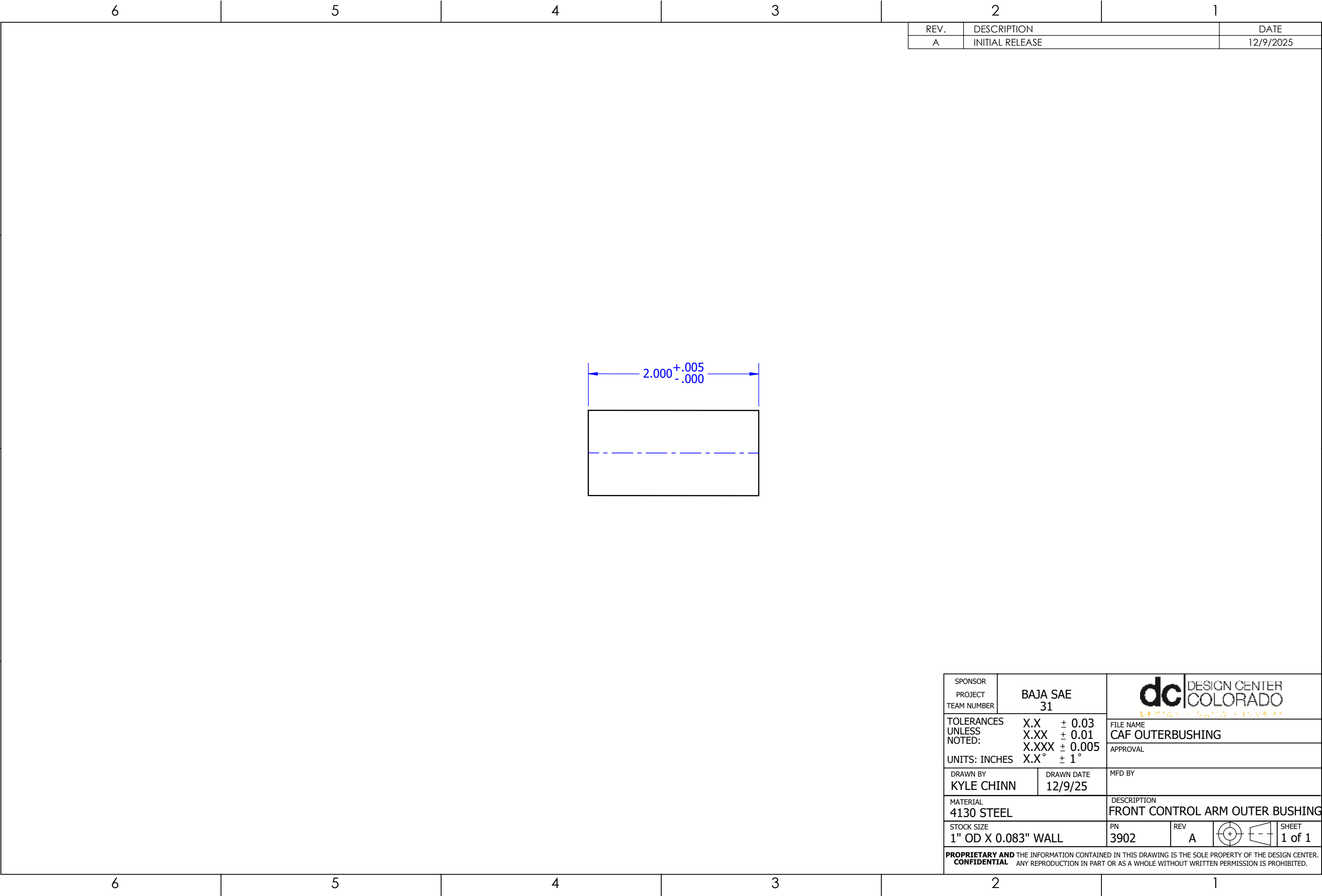
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

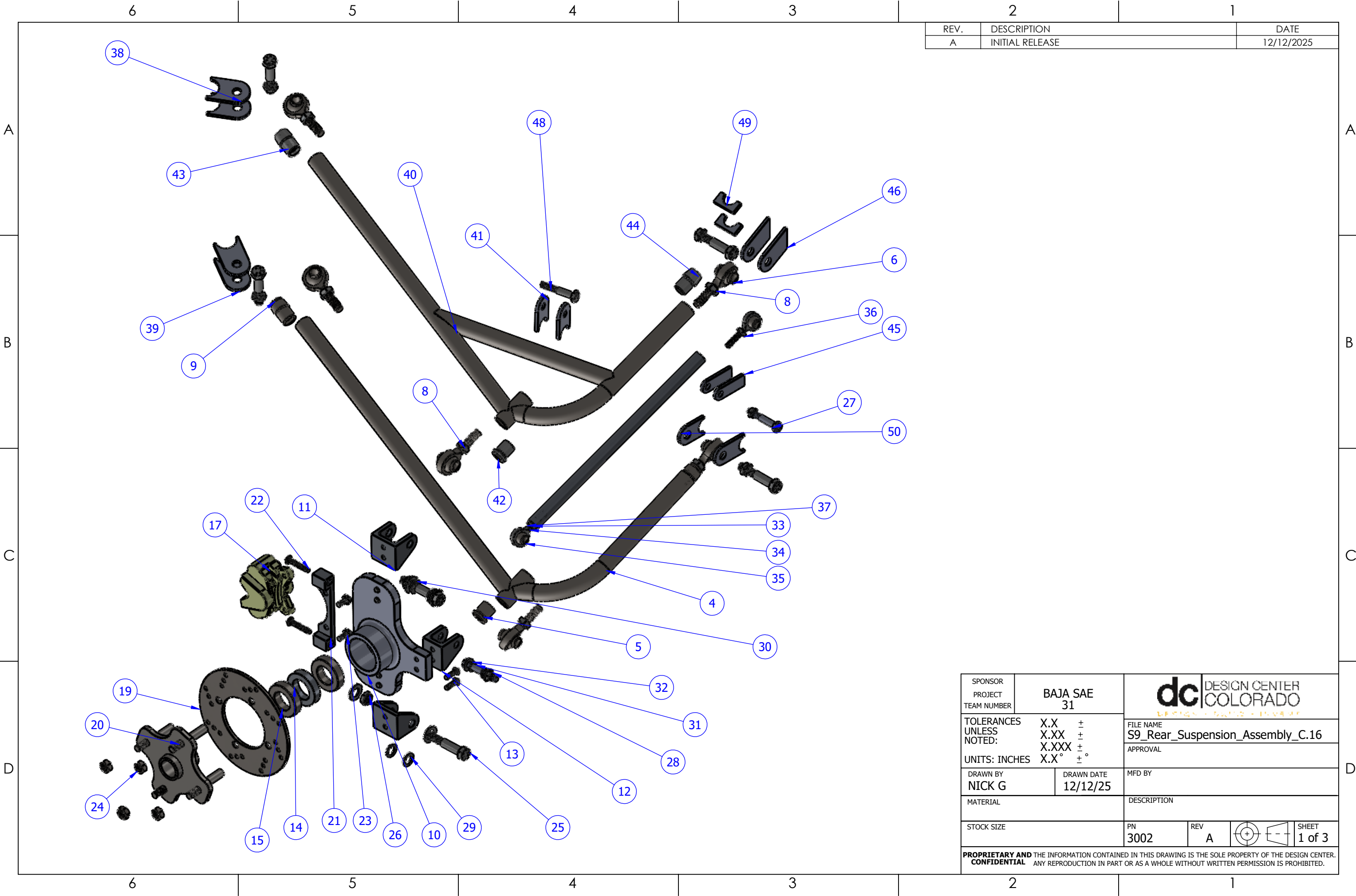
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE SUCCEED			
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005	FILE NAME LCAF TUBE 2		
UNITS: INCHES		X.X° ± 1°	APPROVAL		
DRAWN BY KYLE CHINN		DRAWN DATE 12/9/25	MFD BY		
MATERIAL 4130 STEEL			DESCRIPTION LCAF FRONT MEMBER		
STOCK SIZE 1" OD X 0.83" WALL			PN 3320	REV A	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					









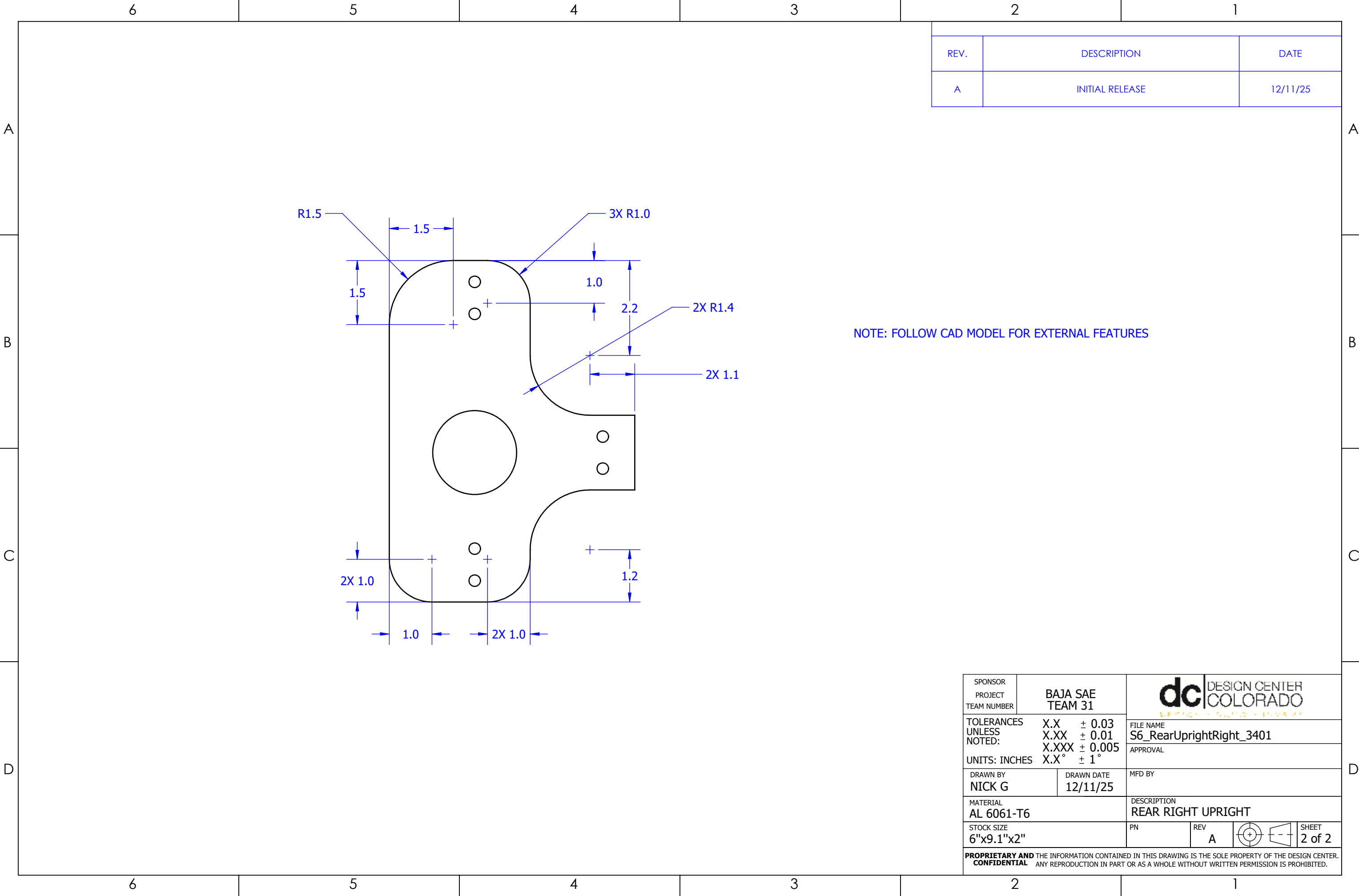


REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/12/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • POWER	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±	FILE NAME S9_Rear_Suspension_Assembly_C.16		
		X.XX ±	APPROVAL		
		X.XXX ±			
		X.X° ±°			
DRAWN BY NICK G		DRAWN DATE 12/12/25		MFD BY	
MATERIAL				DESCRIPTION	
STOCK SIZE				PN 3002	REV A
					SHEET 1 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

A	6		5		4		3		2		1		A
	ITEM NO.	PART NUMBER	DESCRIPTION		QTY.				REV.	DESCRIPTION	DATE		
	4	3600	Lower Control Arm		1				A	INITIAL REVISION	12/12/2025		
B	5	94640A244	Tube-End Weld Nut		1								B
	6	6960T251	Super-Swivel Ball Joint Rod End		6								
	7	6960T251	Super-Swivel Ball Joint Rod End		6								
C	8	92053A130	High-Strength Steel Thin Hex Nuts--Grade 8		6								C
	9	94640A244	Tube-End Weld Nut		2								
	10	3402	Rear Left Upright		1								
D	11	3403	Control Arm Upright Bracket		2								D
	12	3404	Toe Arm Upright Bracket		1								
	13	91255A839	Button Head Hex Drive Screw		6								
E	14	3104/3105	Bearing Spacer		1								E
	15	6006-2RS-C3	Wheel Bearing		3								
	17	Break_caliper	Brake Caliper		2								
F	19	brakes_rotor	Steel Brake Rotor		1								F
	20	brakes_grizzlyhub	Wheel Hub		1								
	21	3106	Brake Caliper Bracket		1								
G	22	92095A294	Button Head Hex Drive Screw		2								G
	23	91180A527	Medium-Strength Class 8.8 Steel Hex Head Screw		2								
	24	4391N113	Yamaha Lug Nut		4								
H	25	91257A744	Zinc Yellow-Chromate Plated Hex Head Screw		6								H
	26	94945A225	High-Strength Steel Thin Nylon-Insert Locknut		6								
	27	91257A660	Zinc Yellow-Chromate Plated Hex Head Screw		2								
I	28	94945A218	High-Strength Steel Thin Nylon-Insert Locknut		2								I
	29	96853A169	18-8 Stainless Steel Wide-Rim Ring Shim		4								
	30	98023A118	Zinc Yellow-Chromate Plated Grade 8 Steel Washer		4								
J	31	97022A541	316 Stainless Steel Ring Shim		2								J

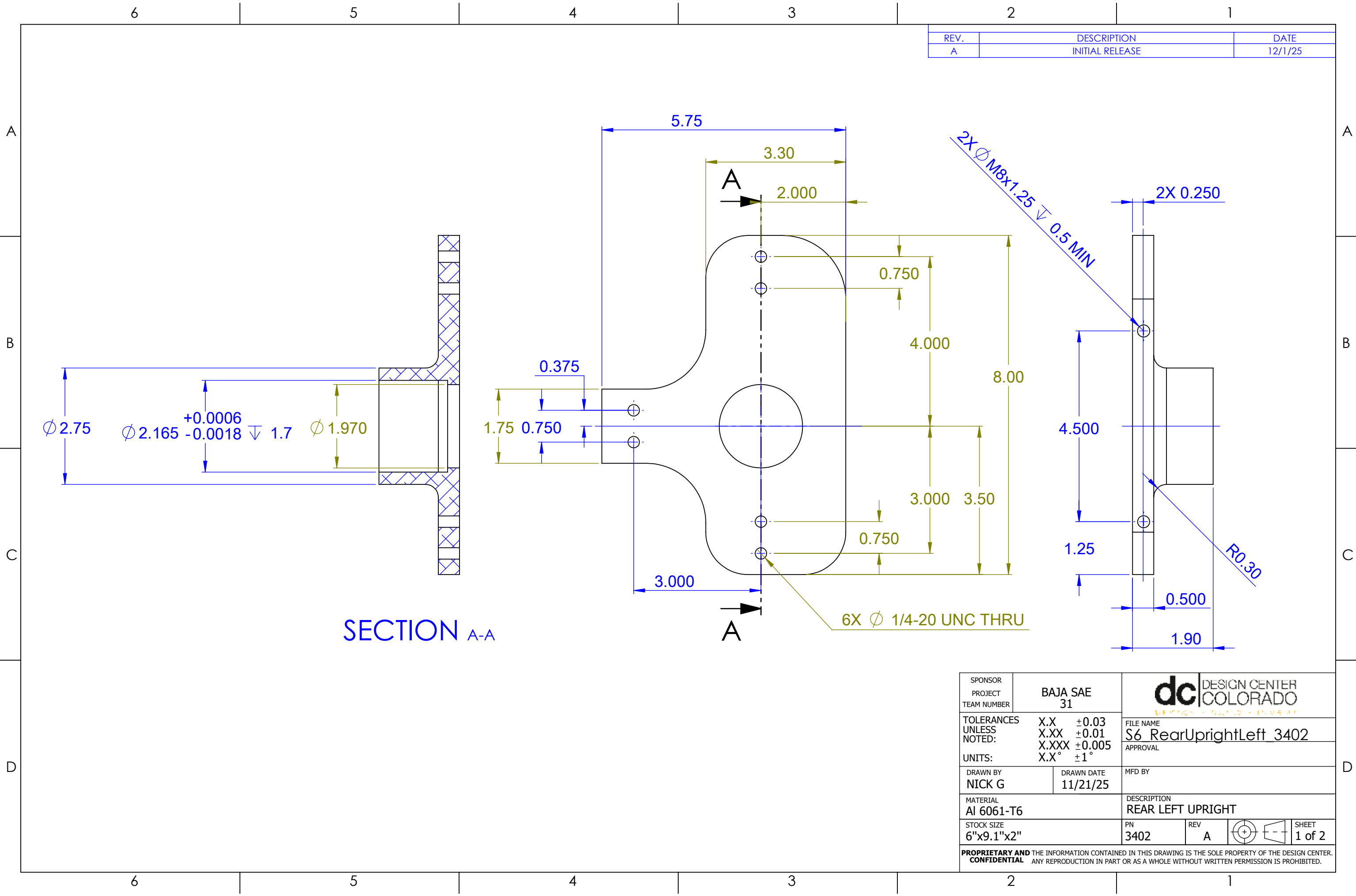
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/25

NOTE: FOLLOW CAD MODEL FOR EXTERNAL FEATURES

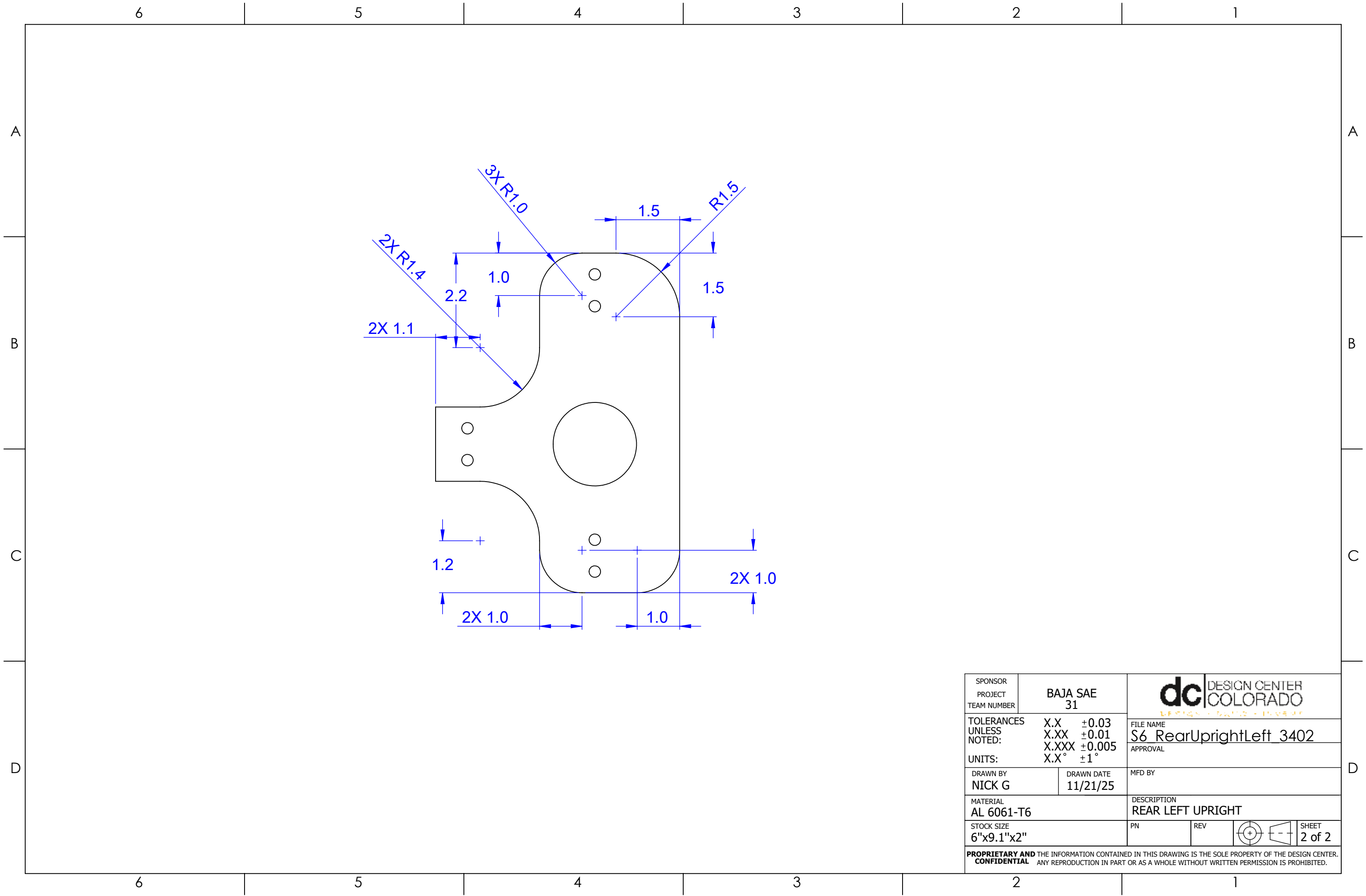
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TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± 1°		FILE NAME	
				S6_RearUprightRight_3401	
				APPROVAL	
DRAWN BY NICK G		DRAWN DATE 12/11/25		MFD BY	
MATERIAL AL 6061-T6		DESCRIPTION REAR RIGHT UPRIGHT			
STOCK SIZE 6"x9.1"x2"		PN	REV A		SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/1/25

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE
TOLERANCES UNLESS NOTED:	X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 UNITS: X.X° $\pm 1^\circ$	FILE NAME S6_RearUprightLeft_3402
DRAWN BY NICK G	DRAWN DATE 11/21/25	APPROVAL
MATERIAL Al 6061-T6	STOCK SIZE 6"x9.1"x2"	DESCRIPTION REAR LEFT UPRIGHT
PN 3402	REV A	SHEET 1 of 2

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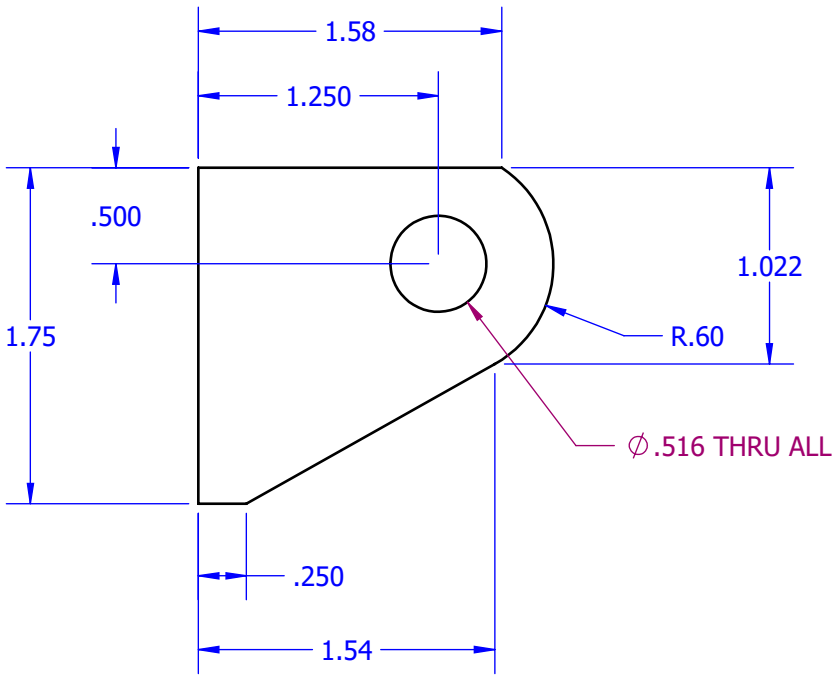
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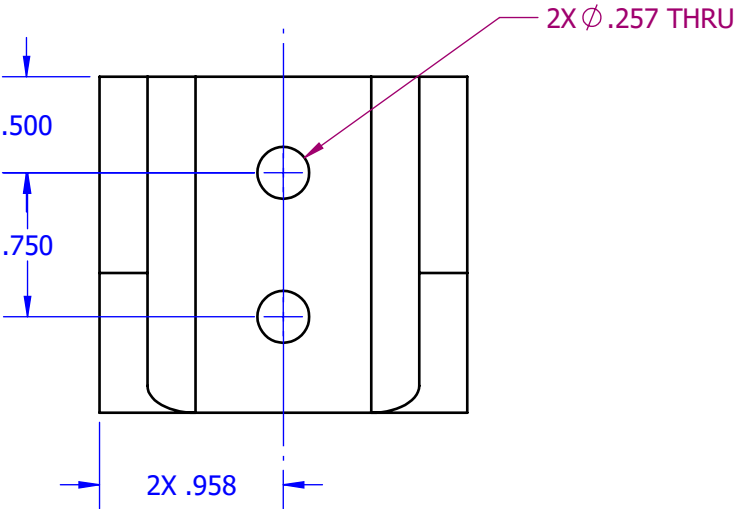
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

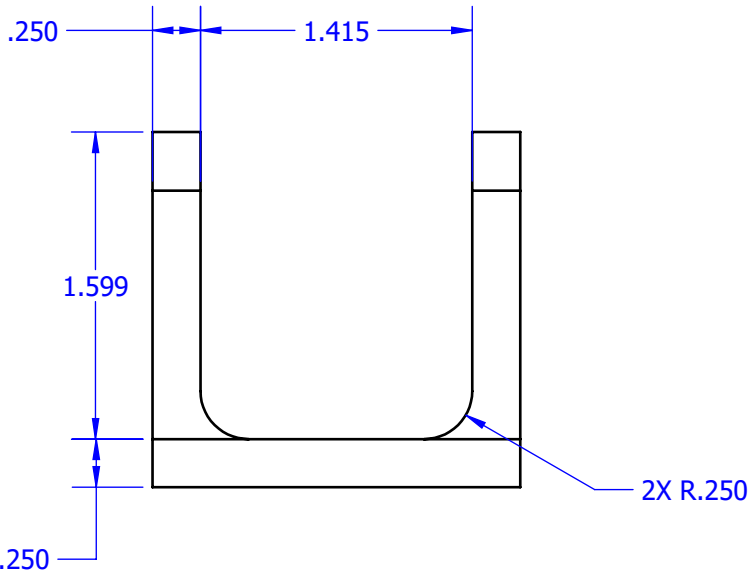
A



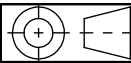
B



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SPONSOR PROJECT TEAM NUMBER	BAJA SAE TEAM 31				
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005	FILE NAME RearControlArmBracket_3403		
UNITS: INCHES		X.X° ± 1°	APPROVAL		
DRAWN BY NICK G		DRAWN DATE 12/11/25	MFD BY		
MATERIAL AL 6061-T6			DESCRIPTION UPRIGHT CONTROL ARM BRACKET		
STOCK SIZE 3"x3"x3"			PN 3403	REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

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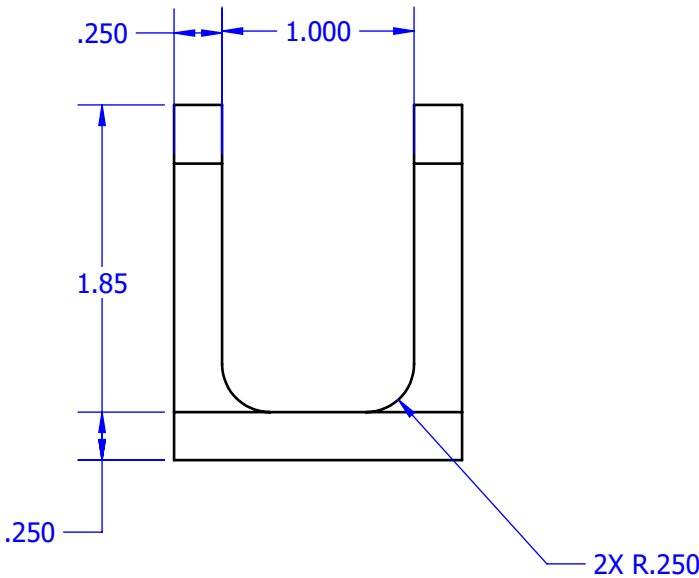
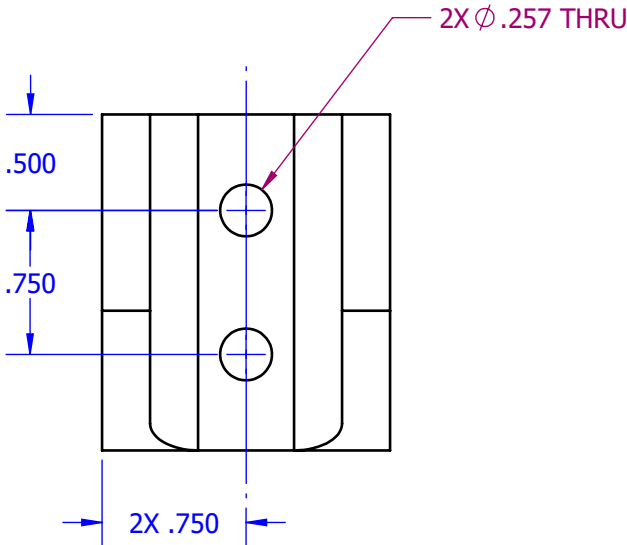
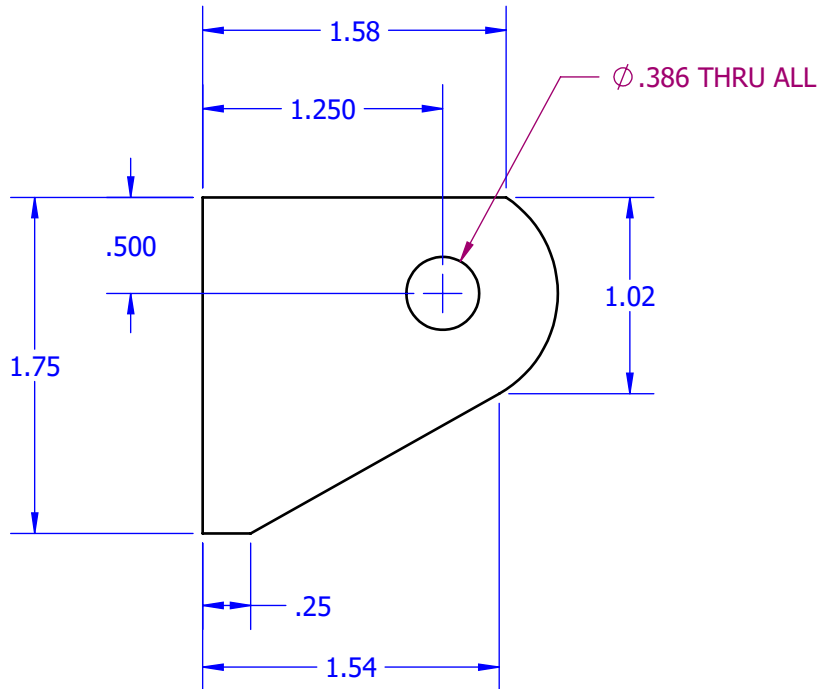
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1

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

A

A



B

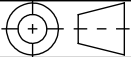
B

C

C

D

D

SPONSOR PROJECT TEAM NUMBER	BAJA SAE TEAM 31				
TOLERANCES UNLESS NOTED:		X.X $\pm$ 0.03	FILE NAME		
		X.XX $\pm$ 0.01	RearToeArmBracket_3404		
		X.XXX $\pm$ 0.005	APPROVAL		
UNITS: INCHES		X.X° $\pm$ 1°			
DRAWN BY NICK G		DRAWN DATE 12/11/25	MFD BY		
MATERIAL AL 6061-T6			DESCRIPTION TOE ARM UPRIGHT BRACKET		
STOCK SIZE 2"x2"x2"			PN 3406	REV A	 SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6

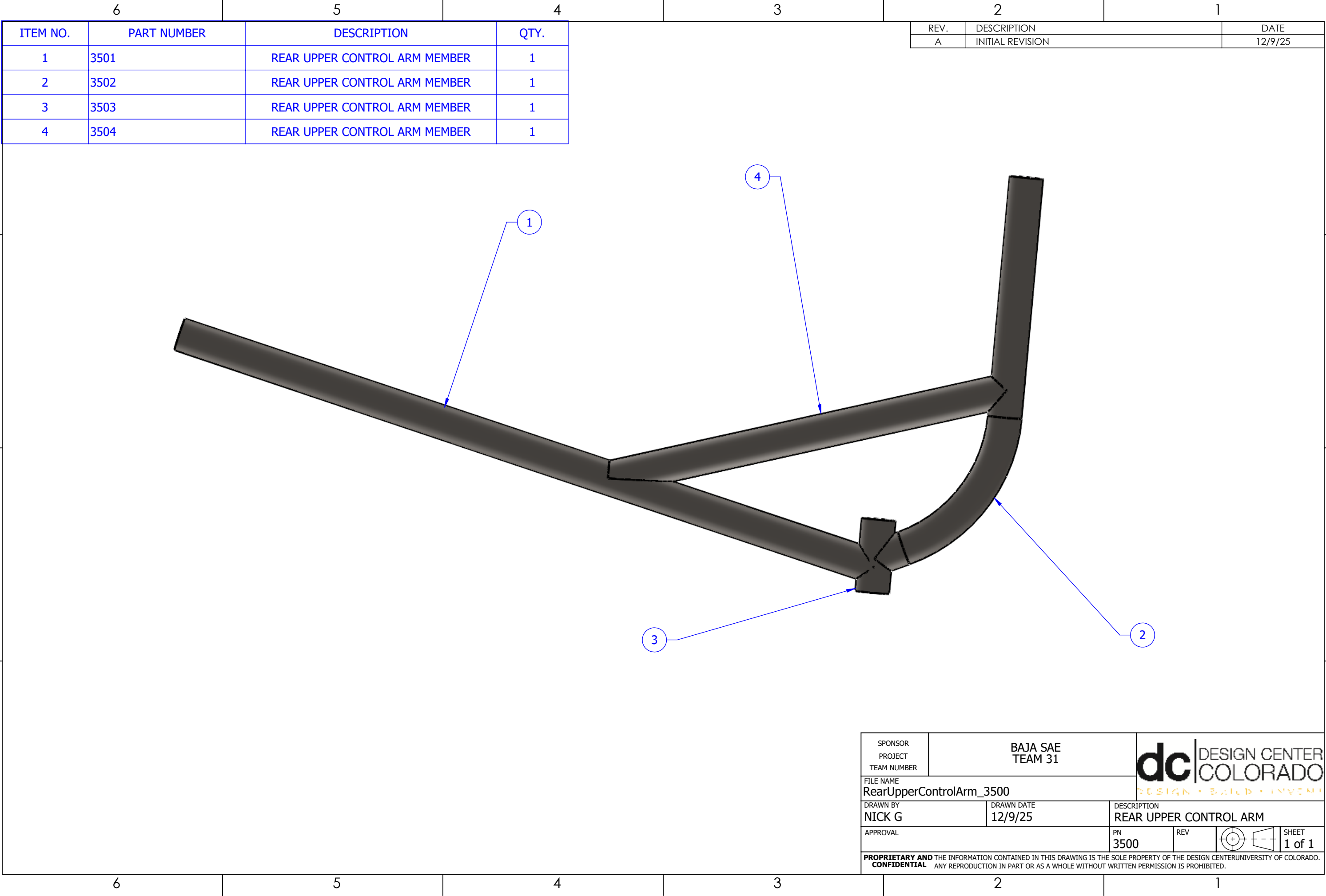
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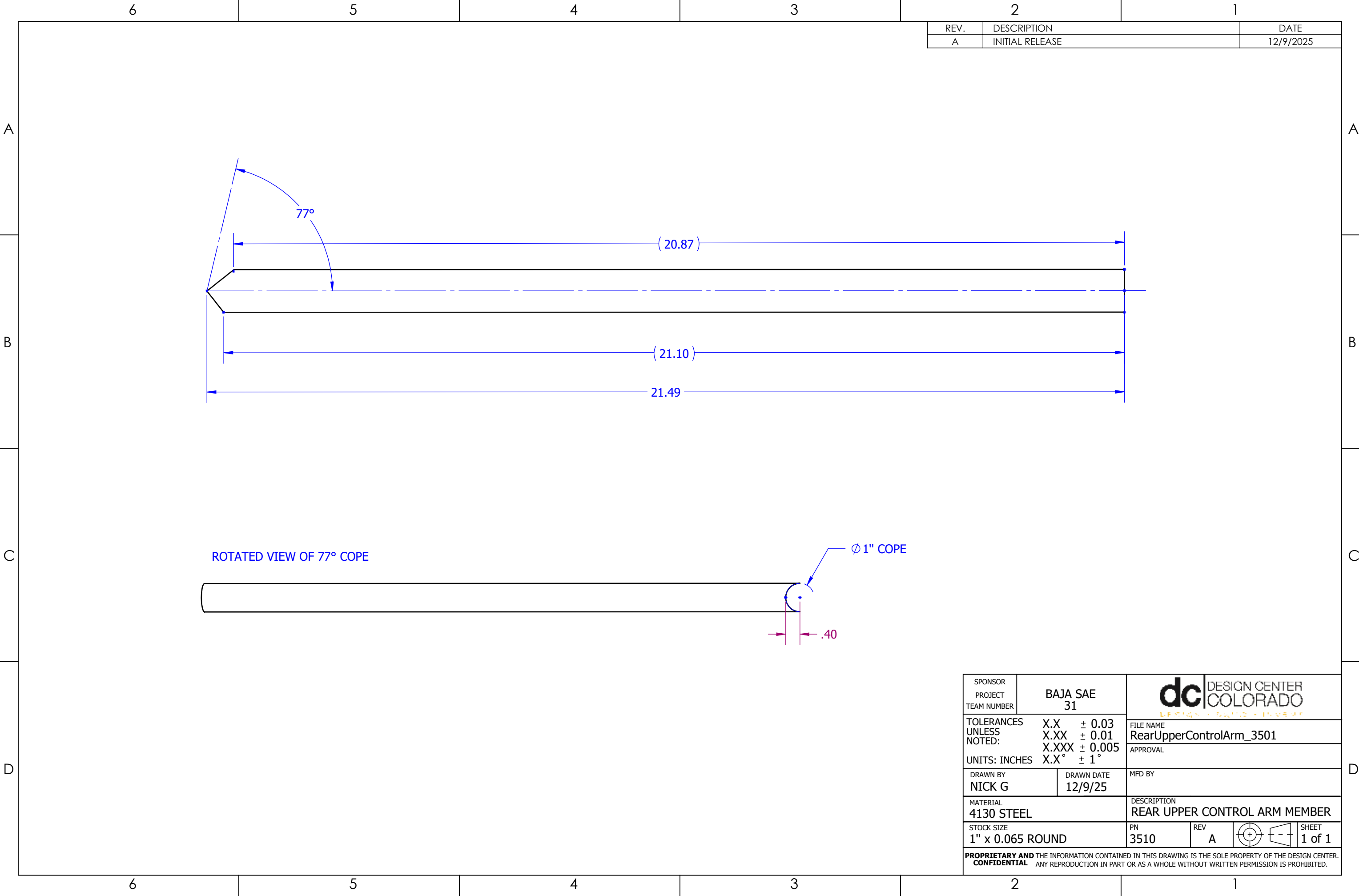
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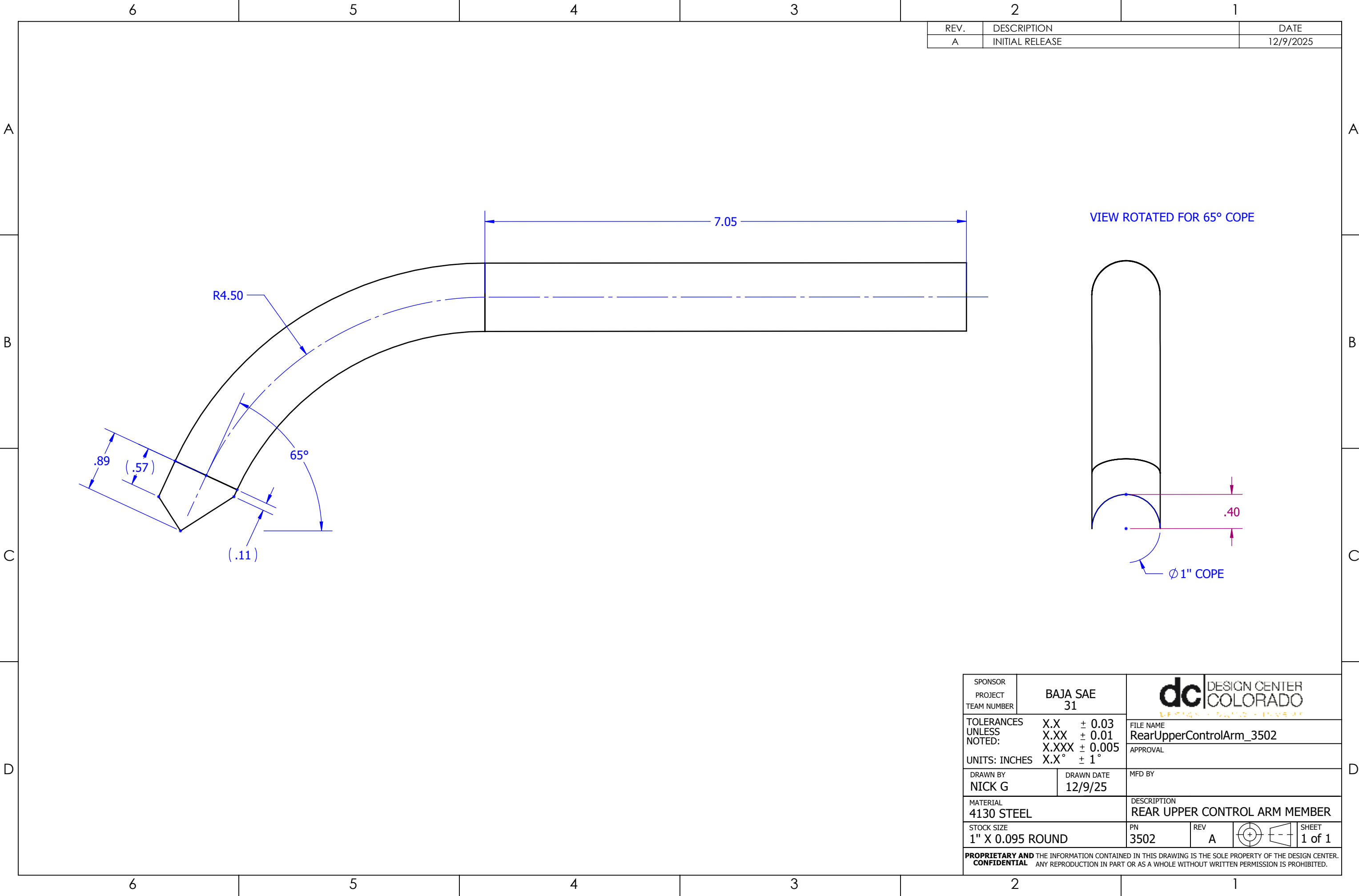
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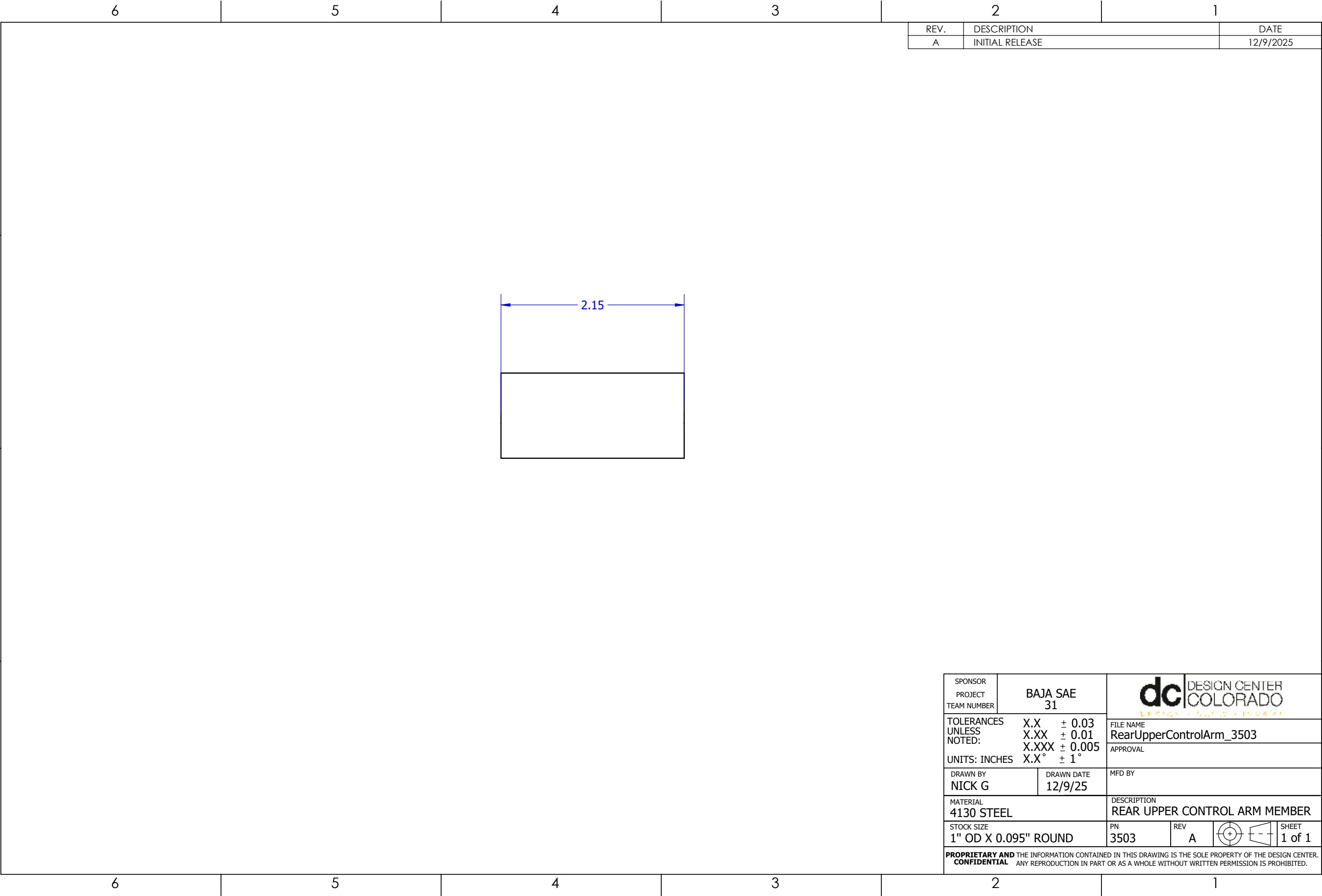
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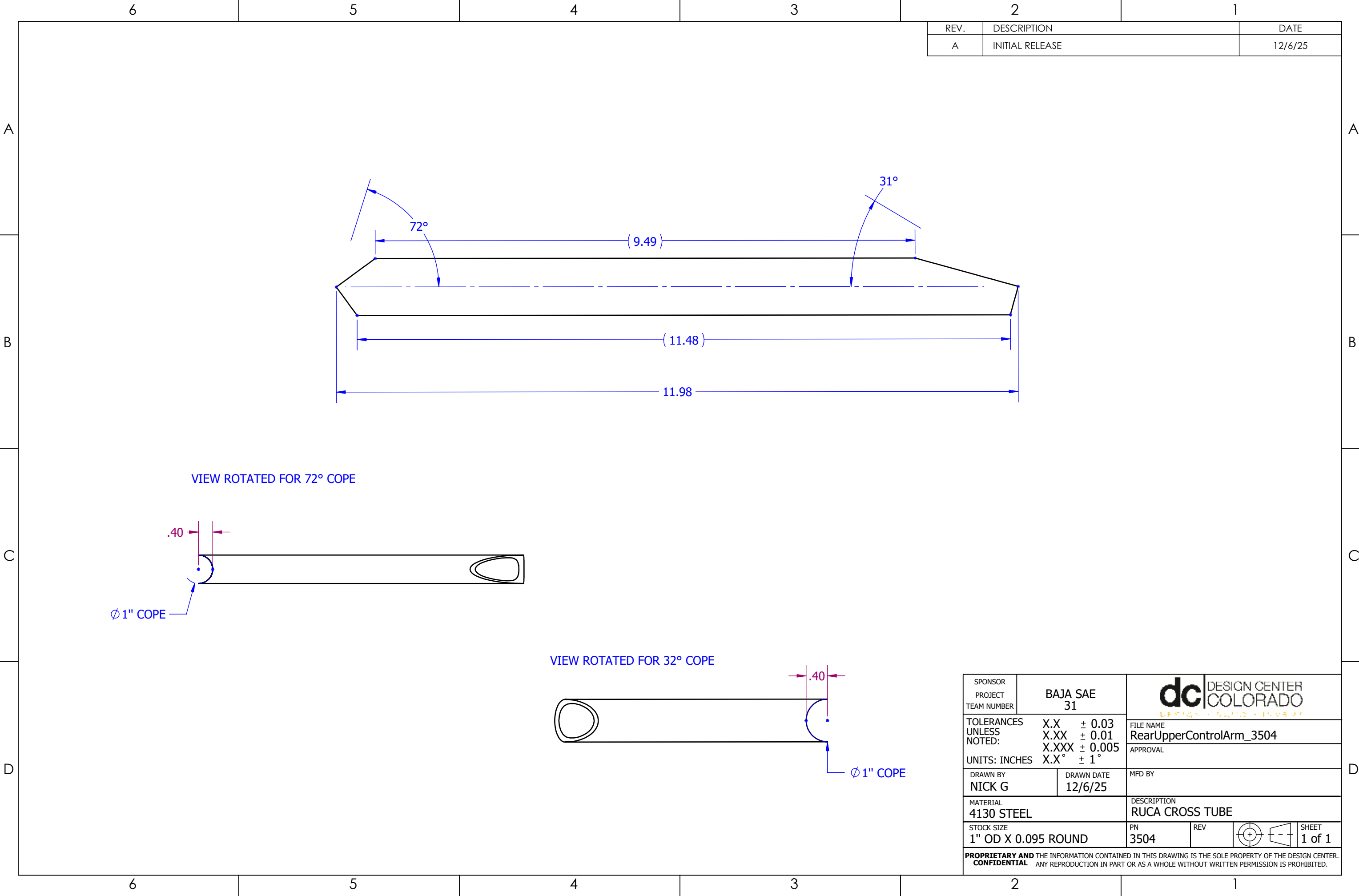
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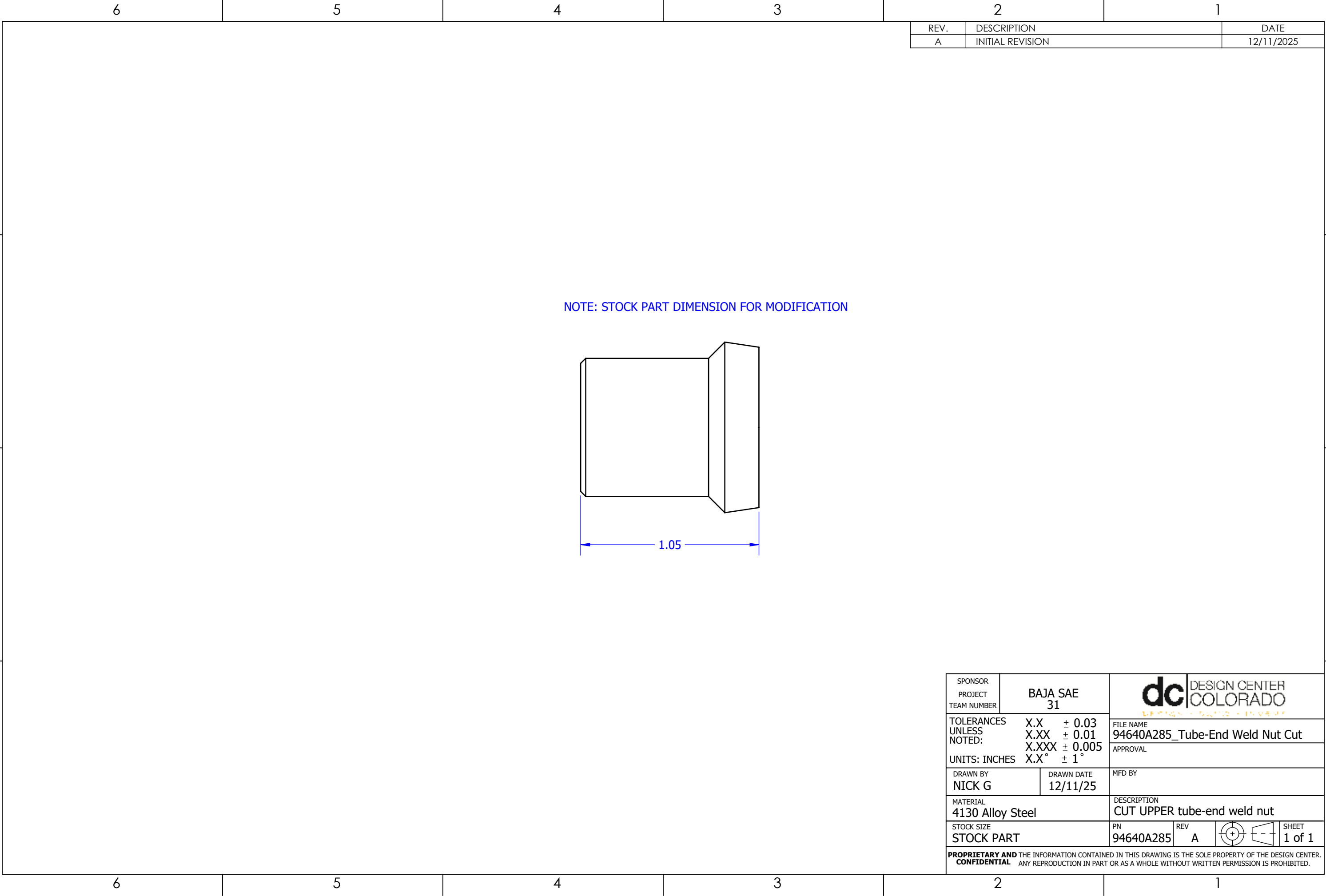


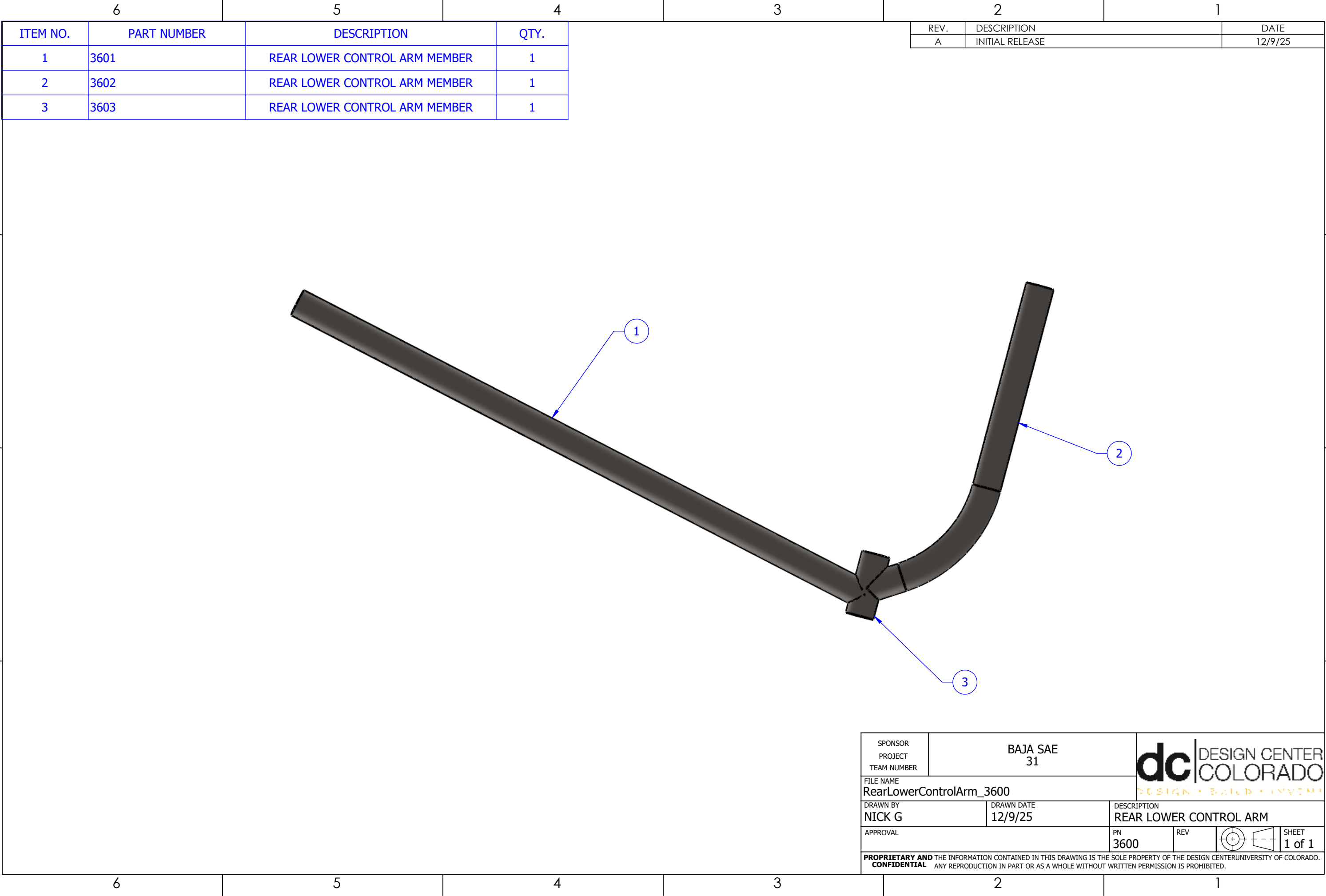


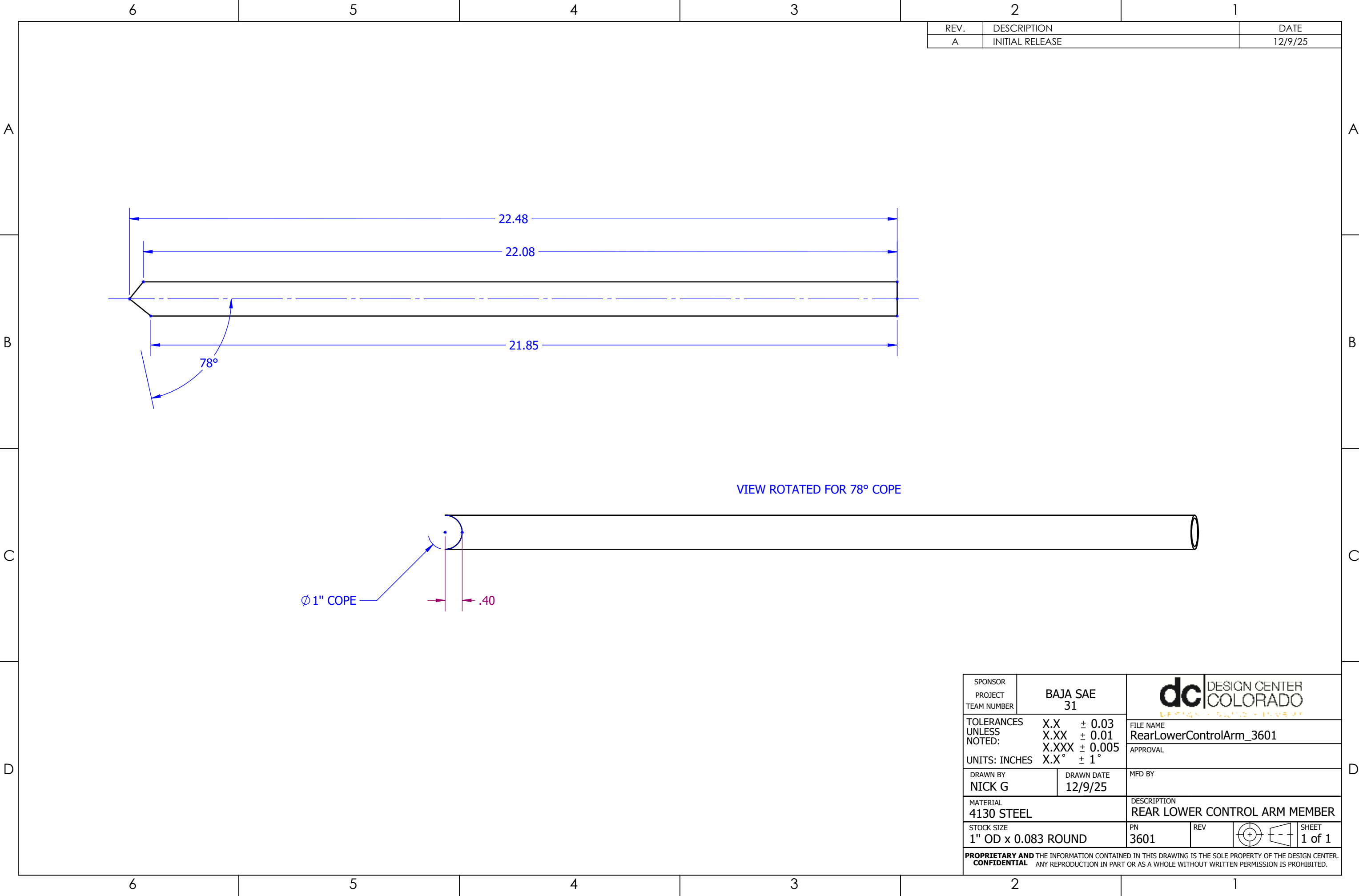


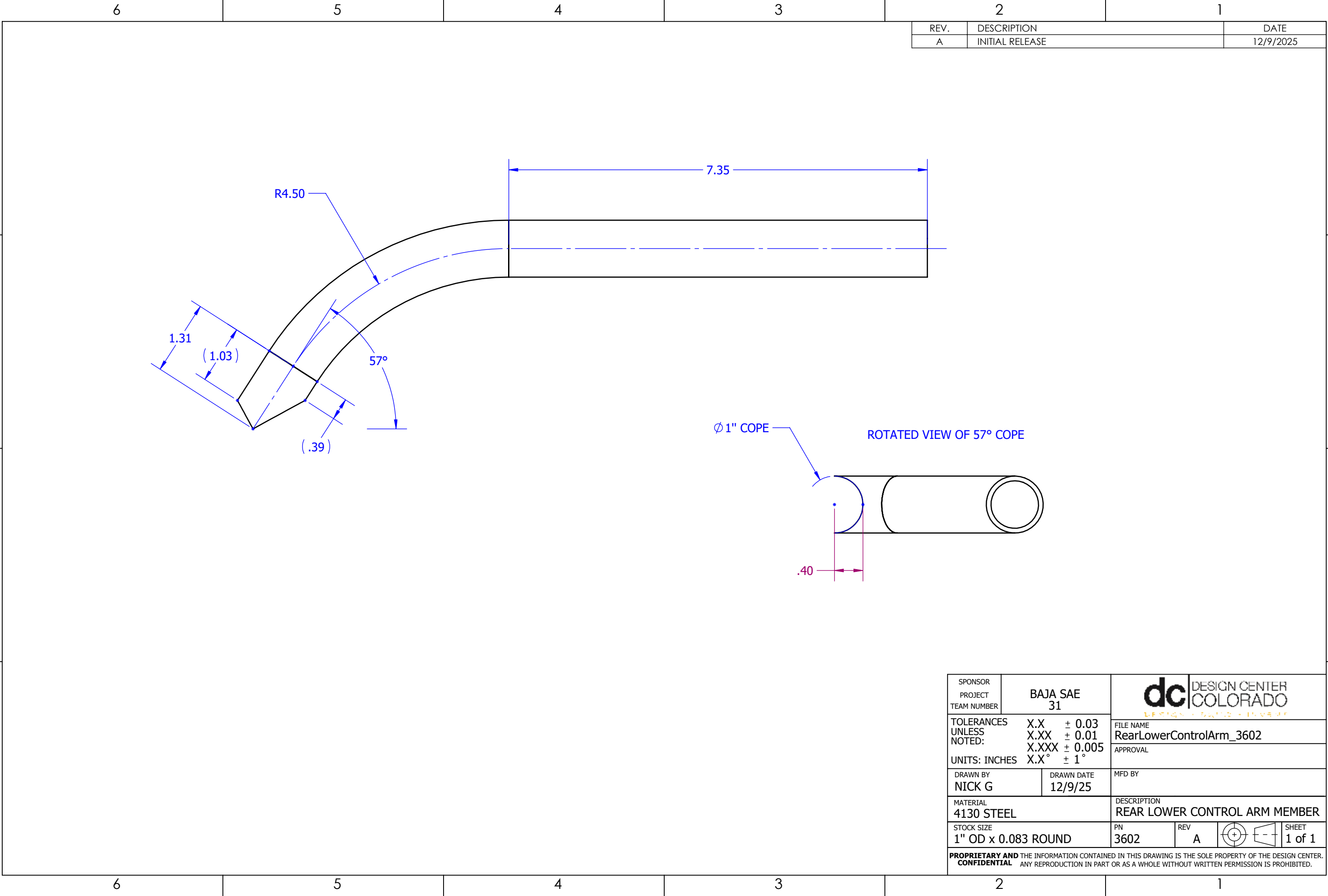
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/6/25

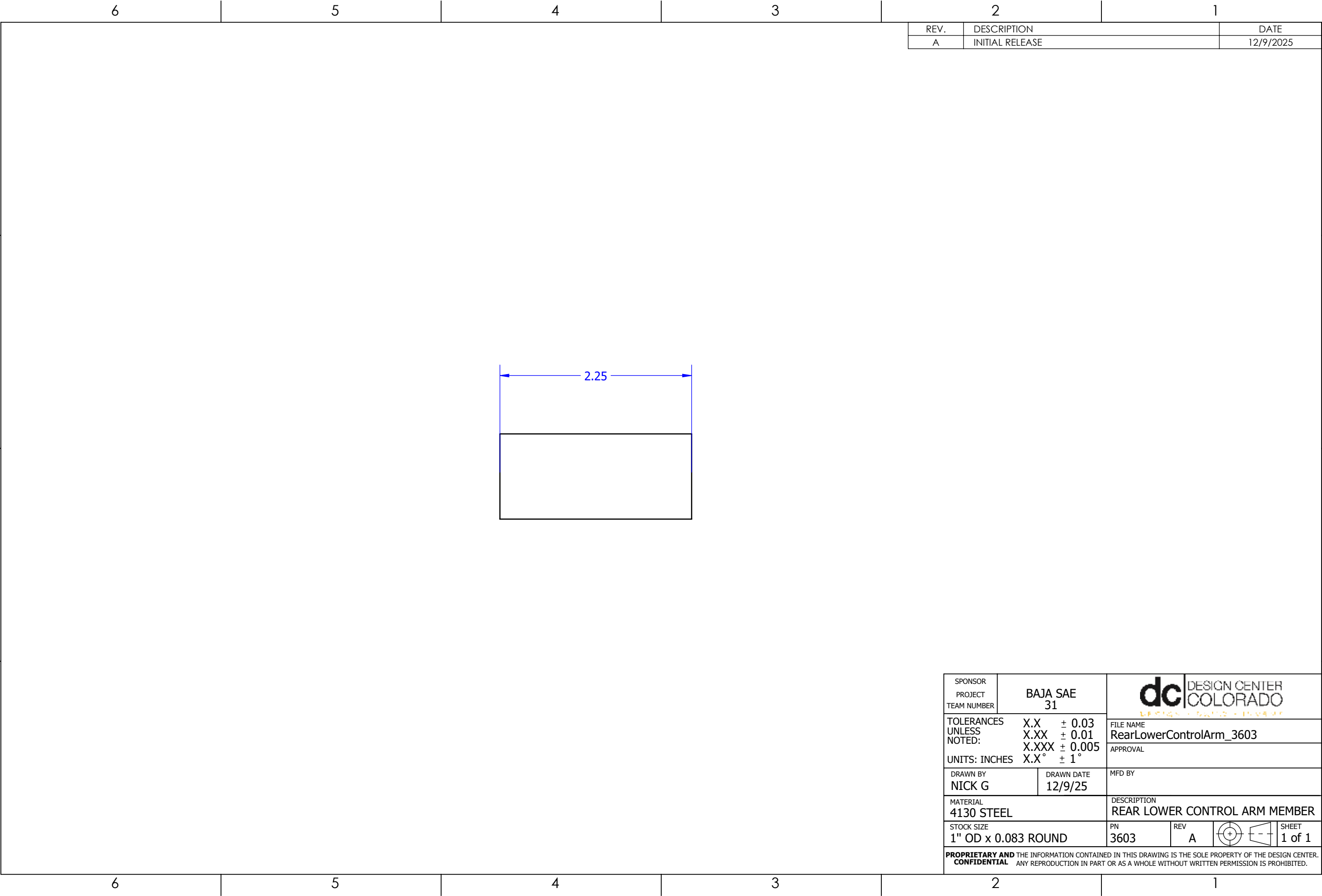
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005 X.X° ± 1°		FILE NAME RearUpperControlArm_3504	
				APPROVAL	
DRAWN BY NICK G		DRAWN DATE 12/6/25		MFD BY	
MATERIAL 4130 STEEL				DESCRIPTION RUCA CROSS TUBE	
STOCK SIZE 1" OD X 0.095 ROUND				PN 3504	REV
					SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

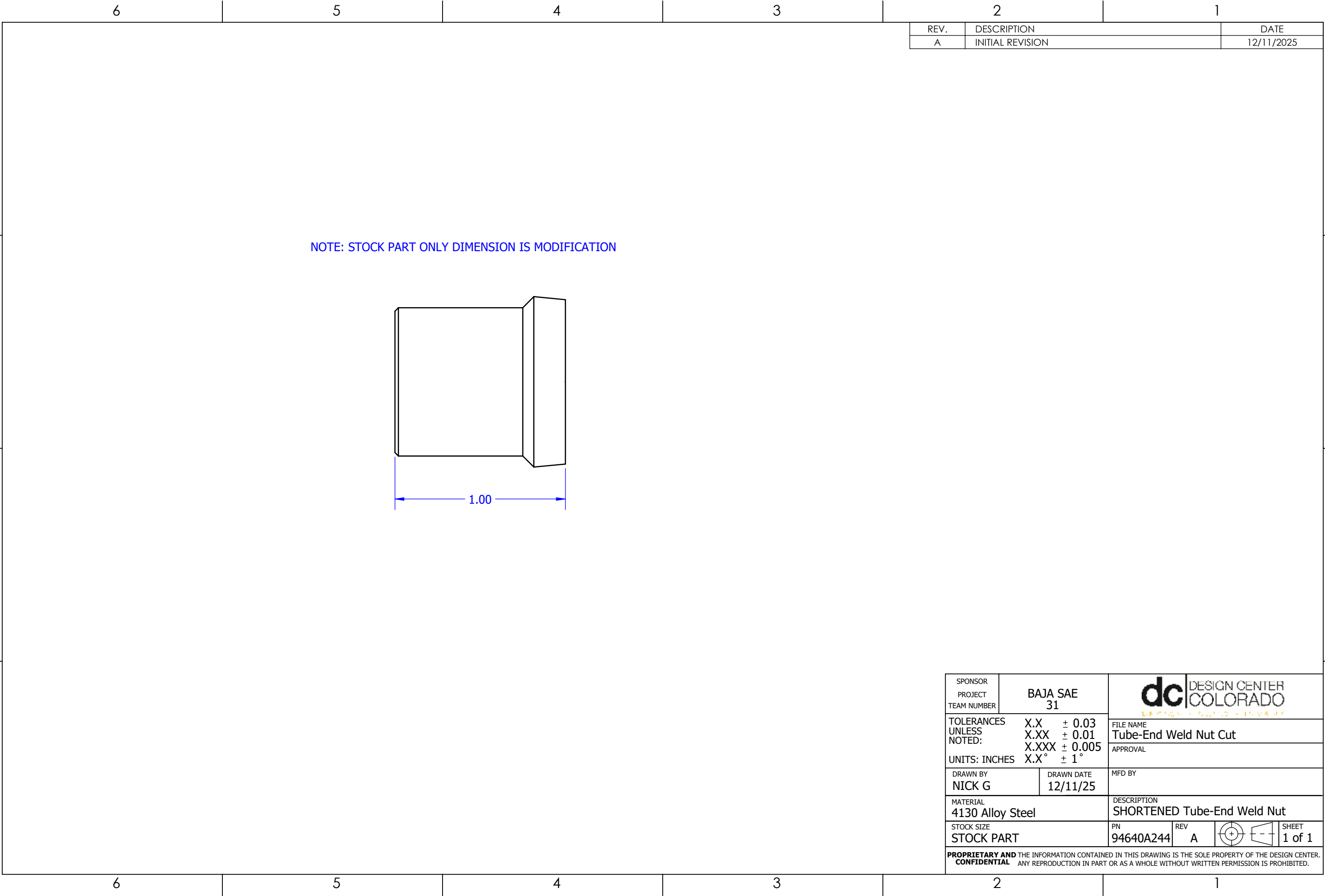


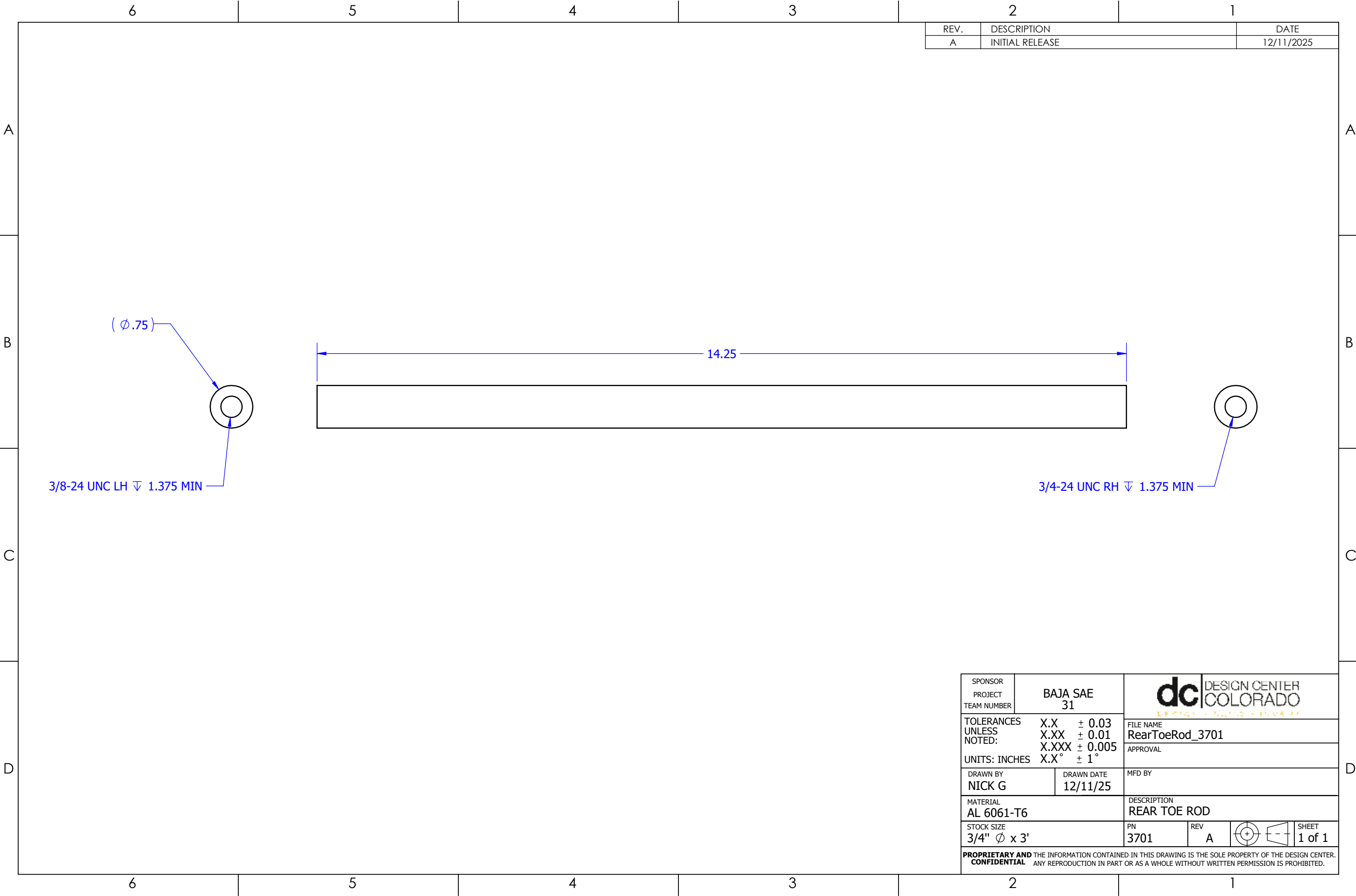










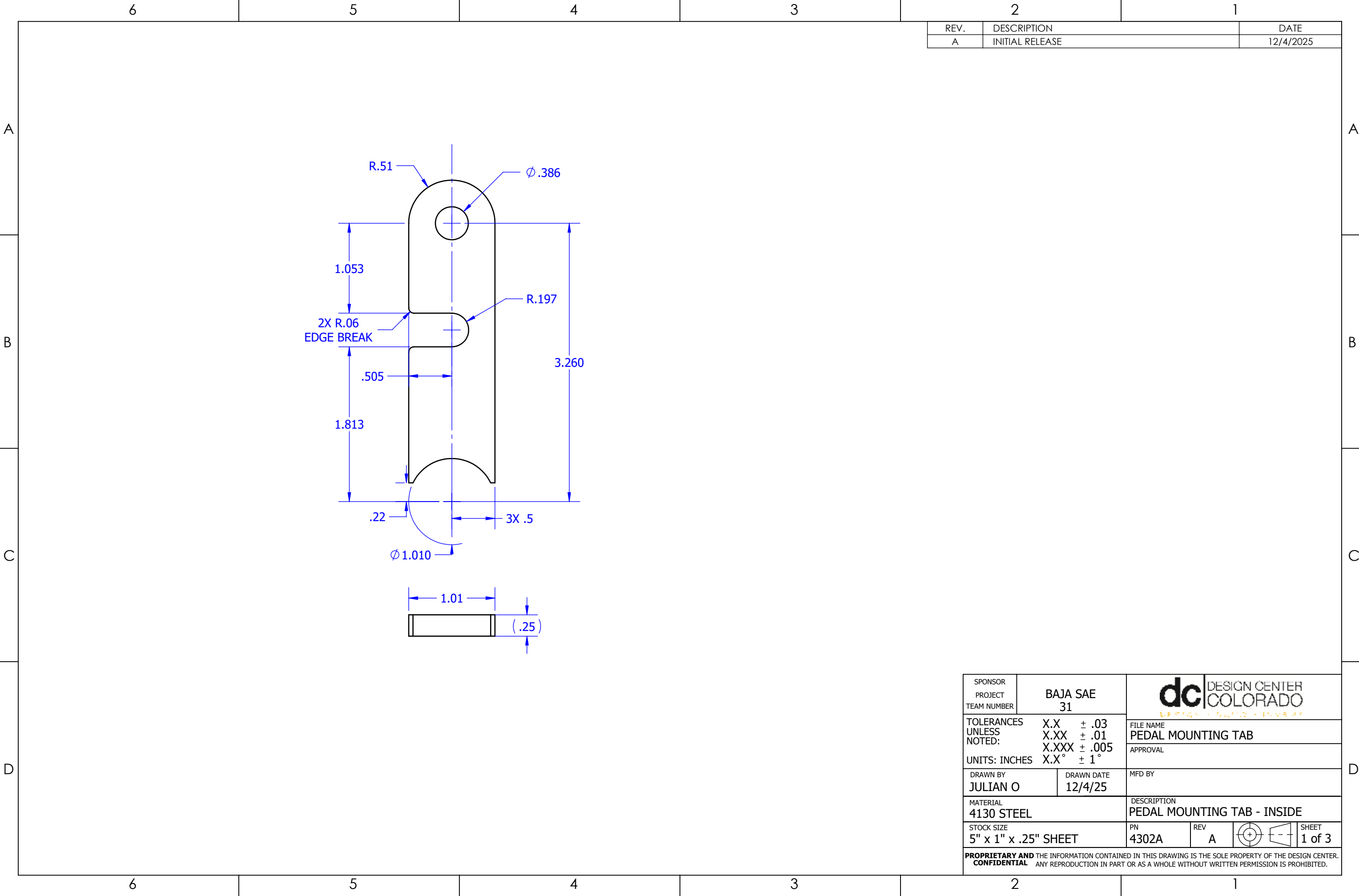


REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

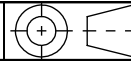
3/8-24 UNC LH ▽ 1.375 MIN

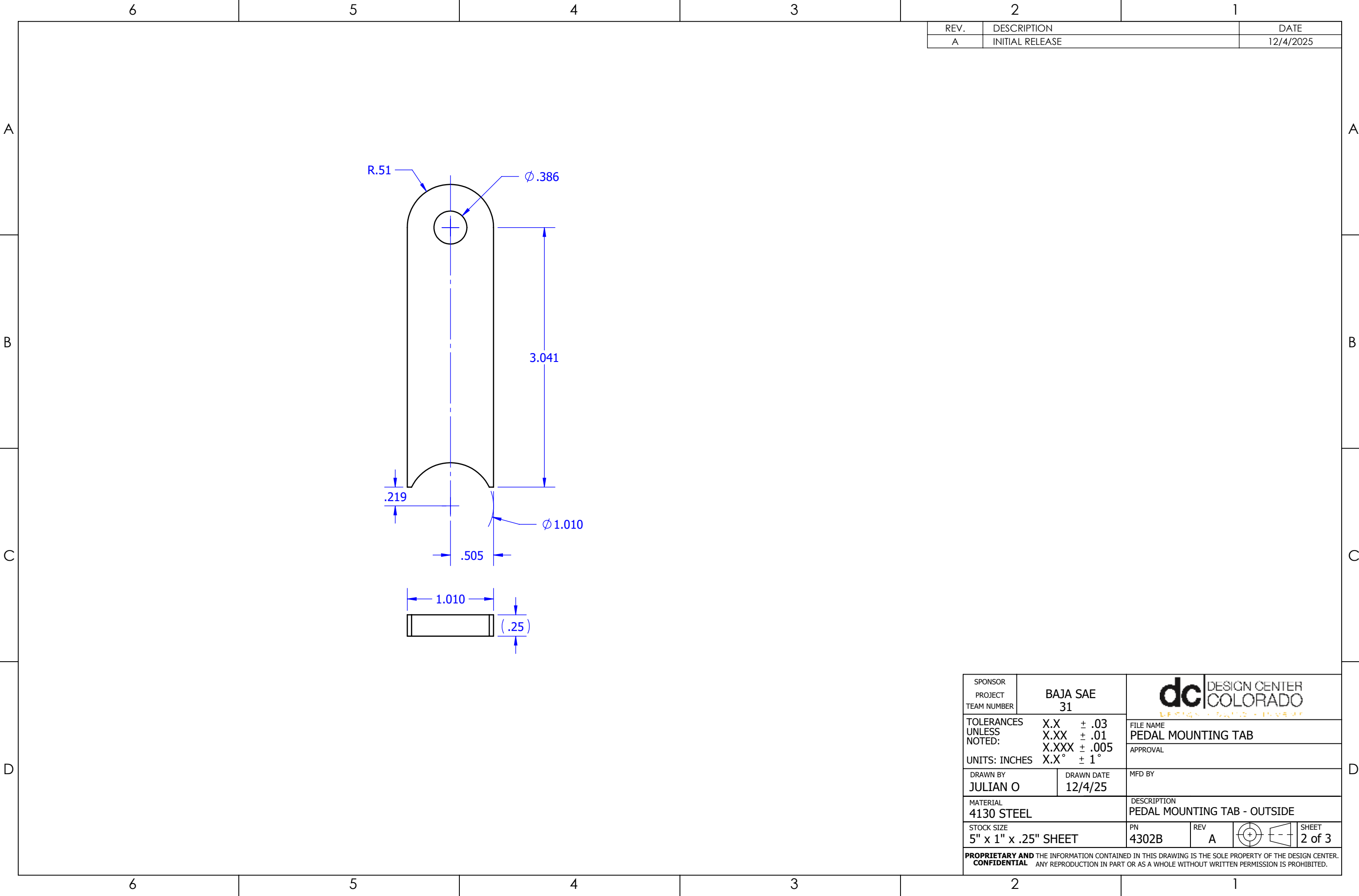
3/4-24 UNC RH ▽ 1.375 MIN

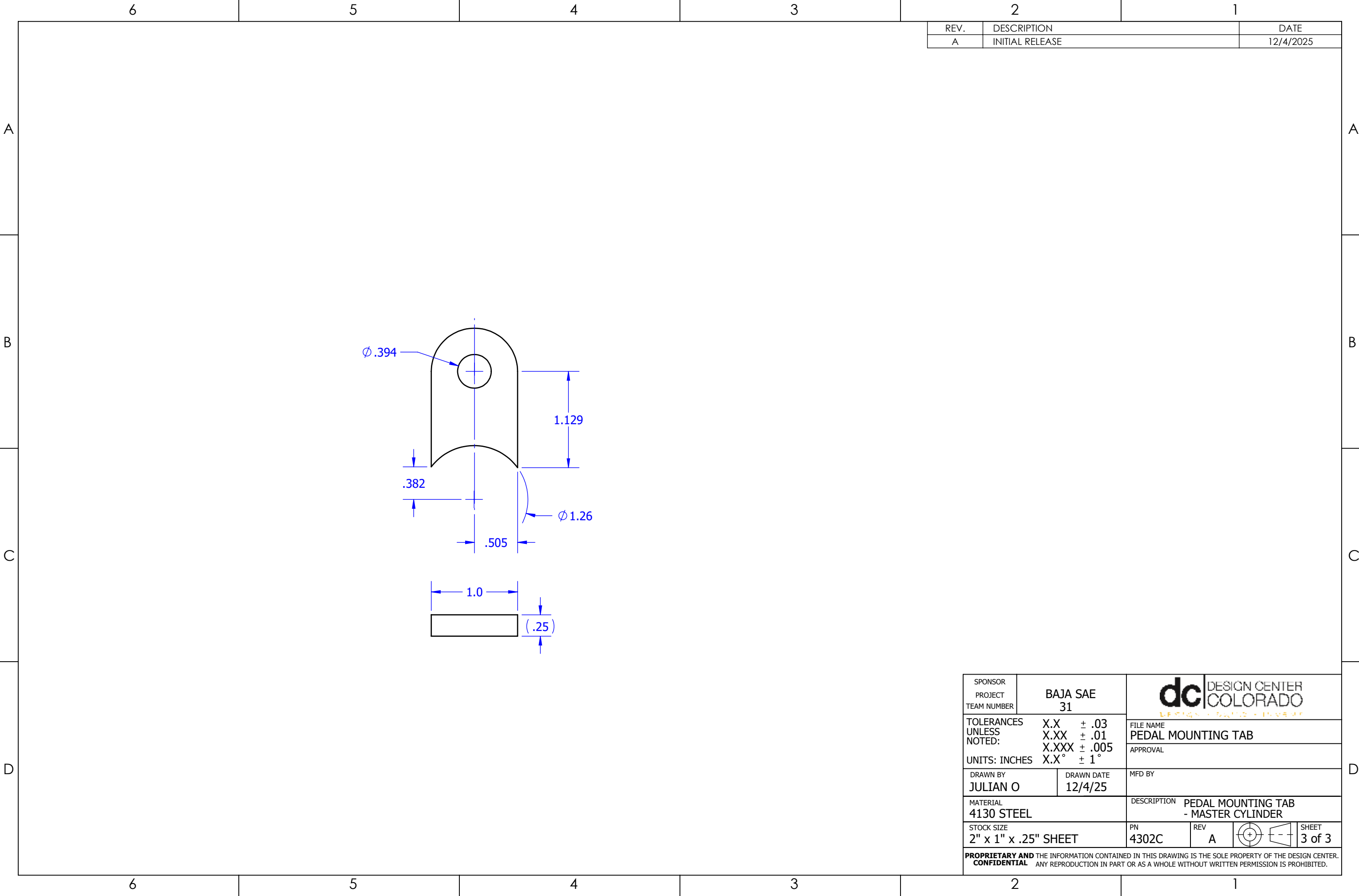
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT		
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005	FILE NAME RearToeRod_3701	
UNITS: INCHES		X.X° ± 1°	APPROVAL	
DRAWN BY NICK G		DRAWN DATE 12/11/25	MFD BY	
MATERIAL AL 6061-T6			DESCRIPTION REAR TOE ROD	
STOCK SIZE 3/4" Ø x 3'			PN 3701	REV A
PROPRIETARY AND CONFIDENTIAL				SHEET 1 of 1
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.				



REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/4/2025

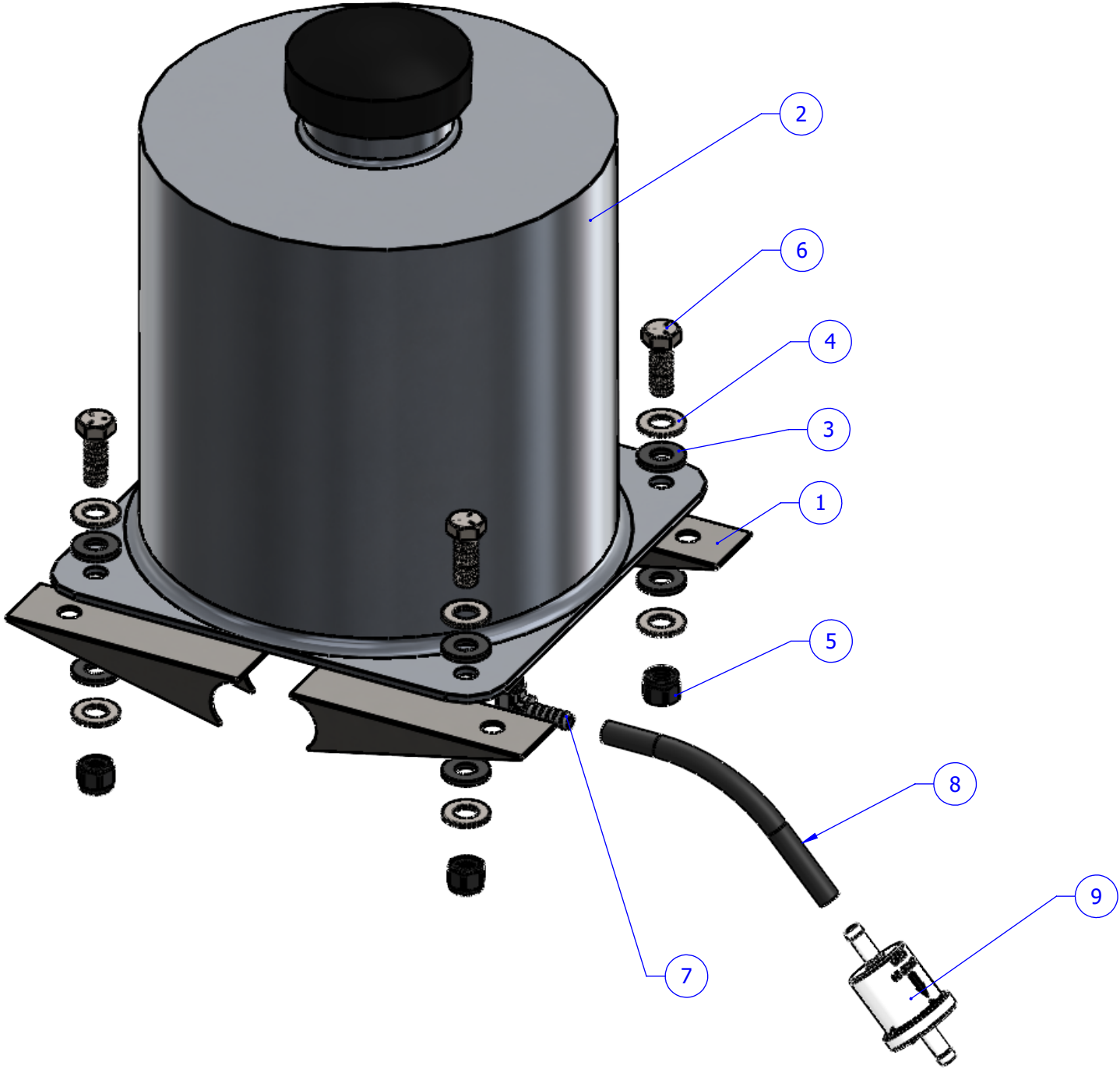
SPONSOR		dc DESIGN CENTER COLORADO LEGION • TANKS • POWER	
PROJECT			
TEAM NUMBER			
BAJA SAE		FILE NAME	
31		PEDAL MOUNTING TAB	
TOLERANCES		APPROVAL	
UNLESS	X.X ± .03		
NOTED:	X.XX ± .01		
	X.XXX ± .005		
UNITS: INCHES	X.X° ± 1°		
DRAWN BY		MFD BY	
JULIAN O			
DRAWN DATE			
12/4/25			
MATERIAL		DESCRIPTION	
4130 STEEL		PEDAL MOUNTING TAB - INSIDE	
STOCK SIZE		PN	REV
5" x 1" x .25" SHEET		4302A	A
			SHEET
			1 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			





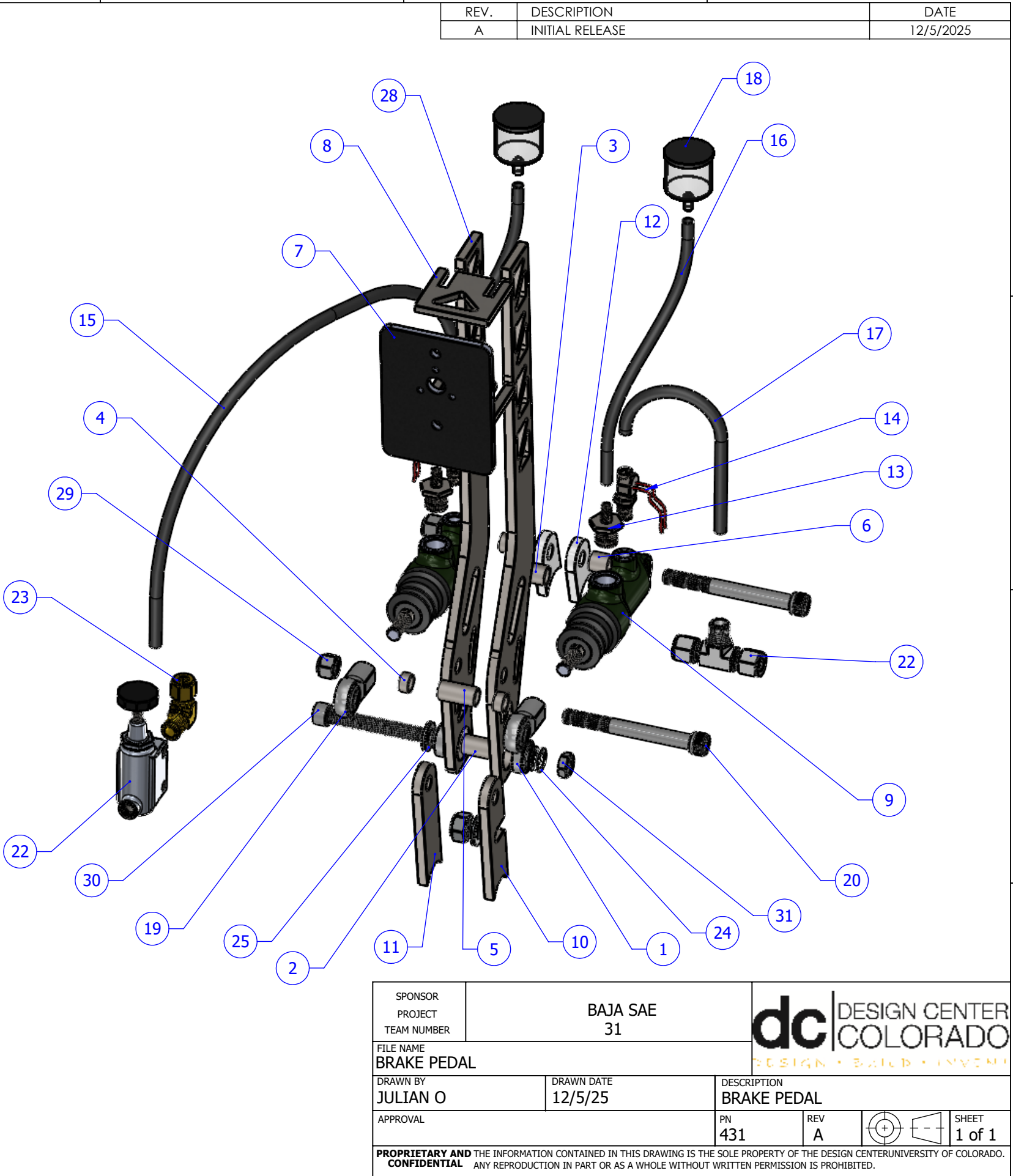
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4801	GAS TANK MOUNTING BRACKETS	4
2	4802	GAS TANK	1
3	94733A723	Chemical-Resistant Santoprene Sealing Washer	8
4	90126A208	Zinc-Plated Steel SAE Washer	8
5	95615A150	Medium-Strength Steel Nylon-Insert Locknut	4
6	92865A215	Medium-Strength Grade 5 Steel Hex Head Screw	4
7	53505K41	Barbed Hose Fitting for Chemicals and Petroleum	1
8	N/A	FUEL LINE	1
9	25 050 21	KOHLER IN-LINE FUEL FILTER	1

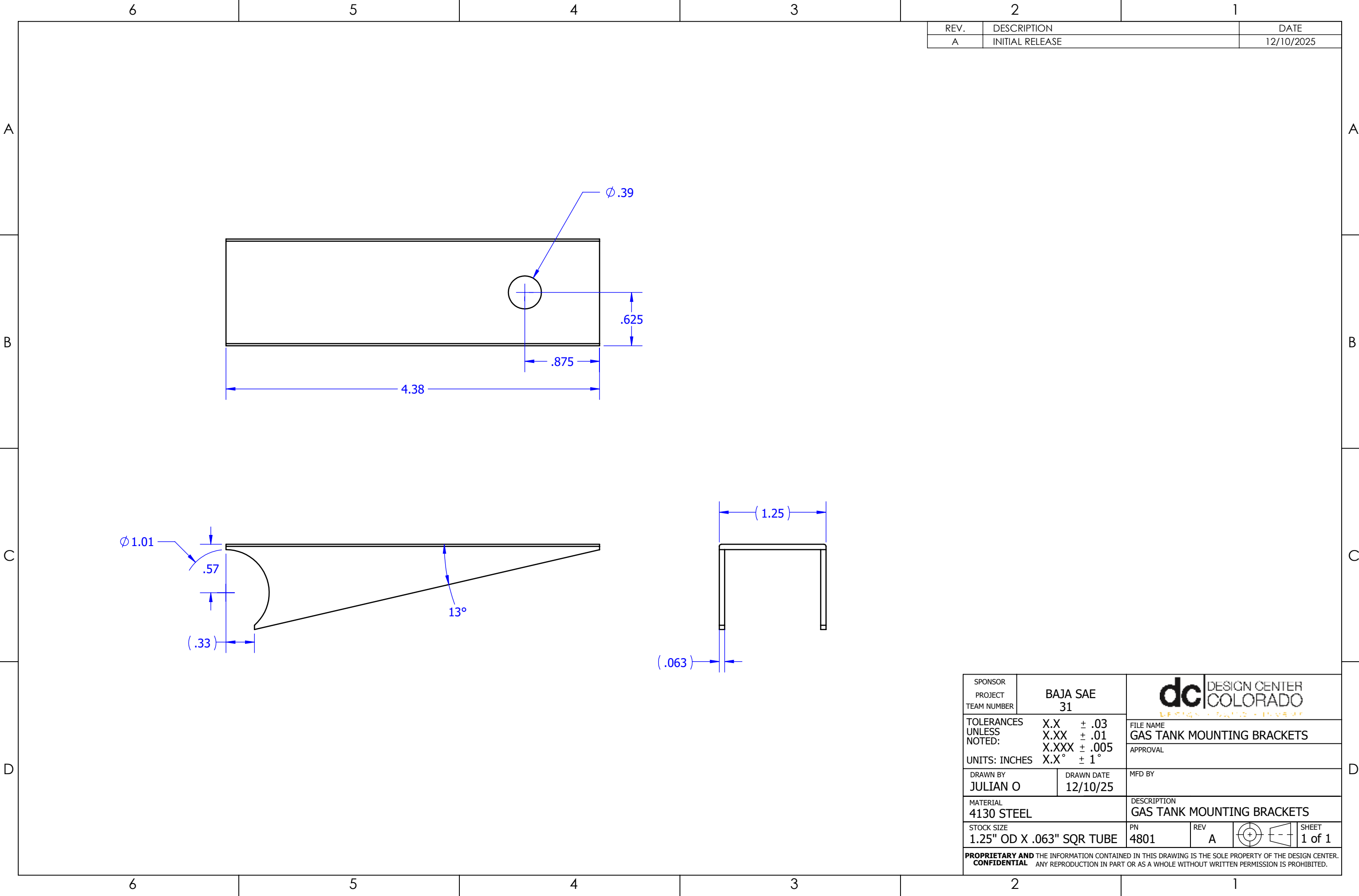
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/10/2025

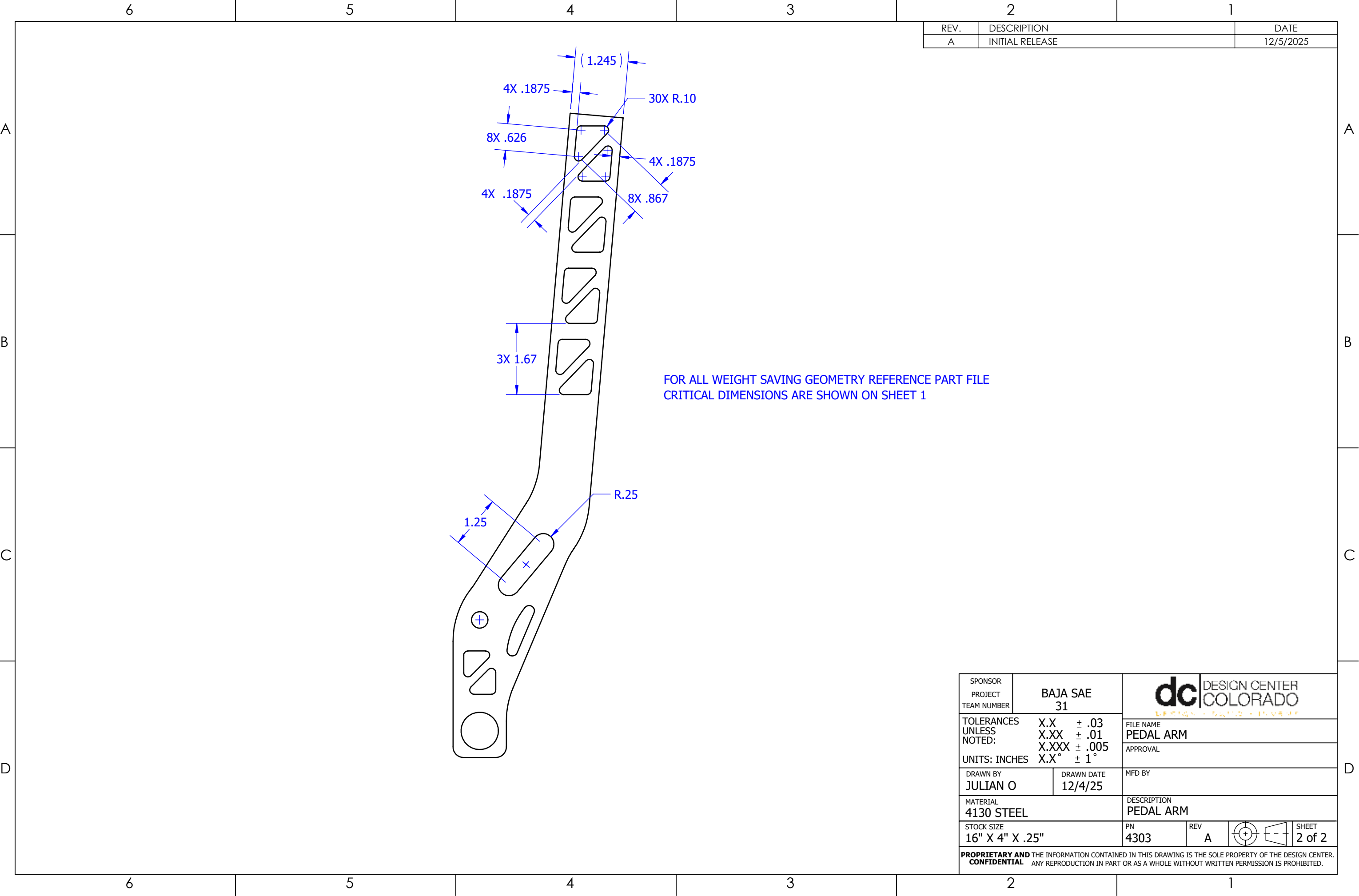


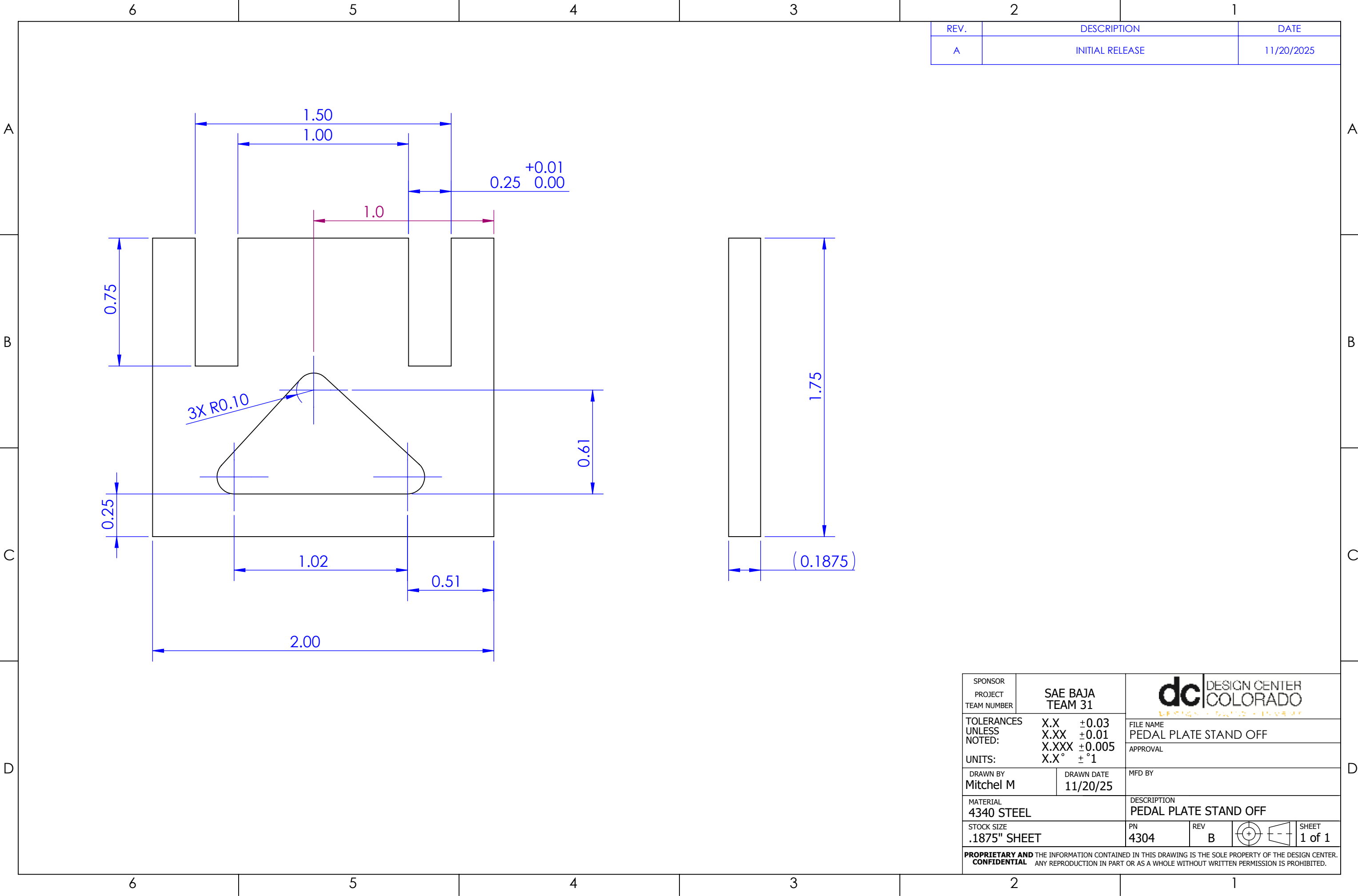
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO	
FILE NAME C4_Gas Tank Mounting Assembly		DESIGN • BUILD • INVENT	
DRAWN BY JULIAN O	DRAWN DATE 12/10/2025	DESCRIPTION GAS TANK ASSEMBLY	
APPROVAL		PN 481	REV A
			SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			

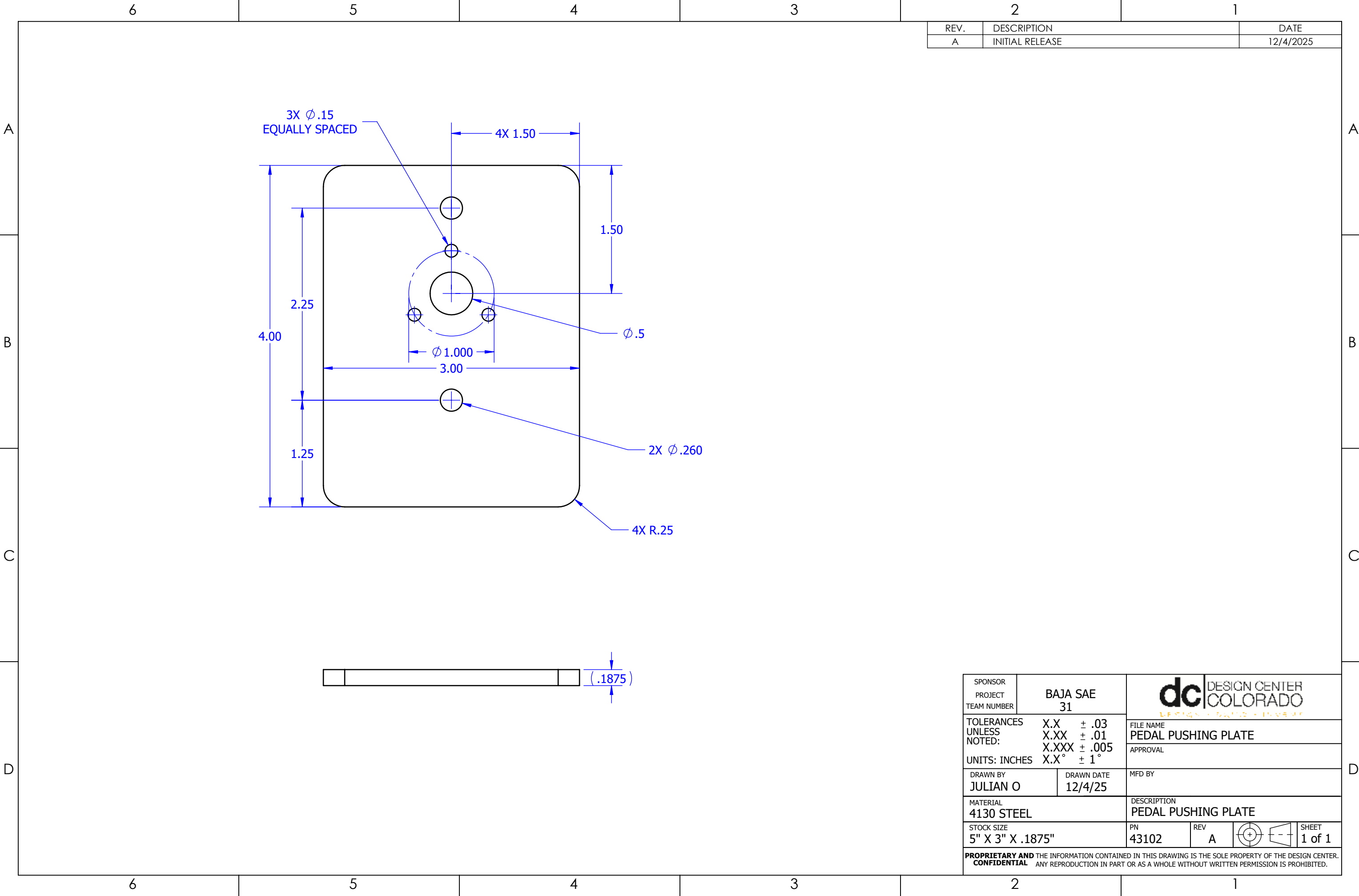
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EEB 3-2Z	Stainless Steel Ball Bearing	2
2	4305A	BEARING SPACER	1
3	4305B	TAB SPACER FOR MASTER CYLINDERS	1
4	4305C	MASTER CYLINDER SPACERS	2
5	4305D	BRAKE PEDAL ARM SPACER	1
6	4305E	REAR MASTSER CYLINDER SPACERS	2
7	4301	PEDAL PUSHING PLATE	1
8	4304	PEDAL PLATE STANDOFF	2
9	78-625	5/8" BORE 78-SERIES TILTON MASTER CYLINDER	2
10	4302A	PEDAL MOUNTING TAB - INSIDE	1
11	4302B	PEDAL MOUNTING TAB - OUTSIDE	1
12	4302C	MASTER CYLINDER MOUNTING TAB	2
13	N/A	BRAKE HOSE FITTING	2
14	N/A	BRAKE HOSE PRESSURE SENSOR	2
15	N/A	BRAKE LINE FOR PROPORTIONING VALVE	1
17	N/A	BRAKE LINE FOR RESERVOIR	2
17	N/A	BRAKE LINE FOR FRONT BRAKES	1
18	N/A	WILWOOD BRAKE RESERVOIR	2
19	60645K341	Ball Joint Rod End	2
20	91251A473	Black-Oxide Alloy Steel Socket Head Screw	2
22	5182K123	Yor-Lok Inline Tee Adapter for 5/16" Tube OD x 1/4 NPT Male	1
22	260-10922	WILWOOD 3/8-24 SEAT PROPORTINING VALVE	1
23	7473T56	Precision Compression Fitting for Copper Tube	1
24	98017A199	18-8 Stainless Steel Mil. Spec. Washer	3
25	98370A019	18-8 Stainless Steel Washer	1
26	4303	PEDAL ARMS	2
27	94645A112	High-Strength Steel Nylon-Insert Locknut	1
28	93475A280	18-8 Stainless Steel Washer	1
29	90630A155	High-Strength Steel Nylon-Insert Locknut	2
30	90044A159	Black-Oxide Alloy Steel Socket Head Screw	1
31	94846A206	Medium-Strength Steel Thin Hex Nut	1

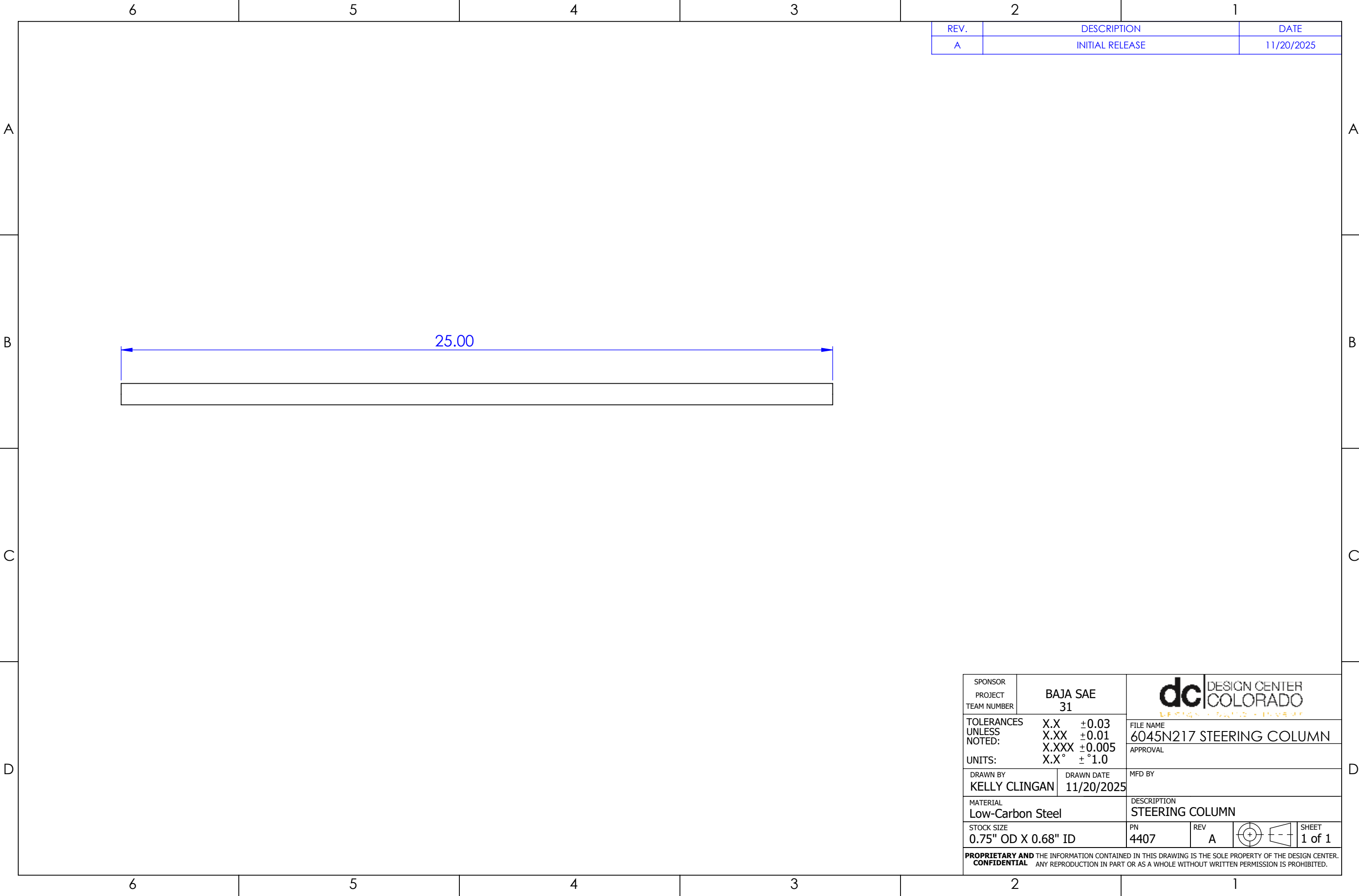


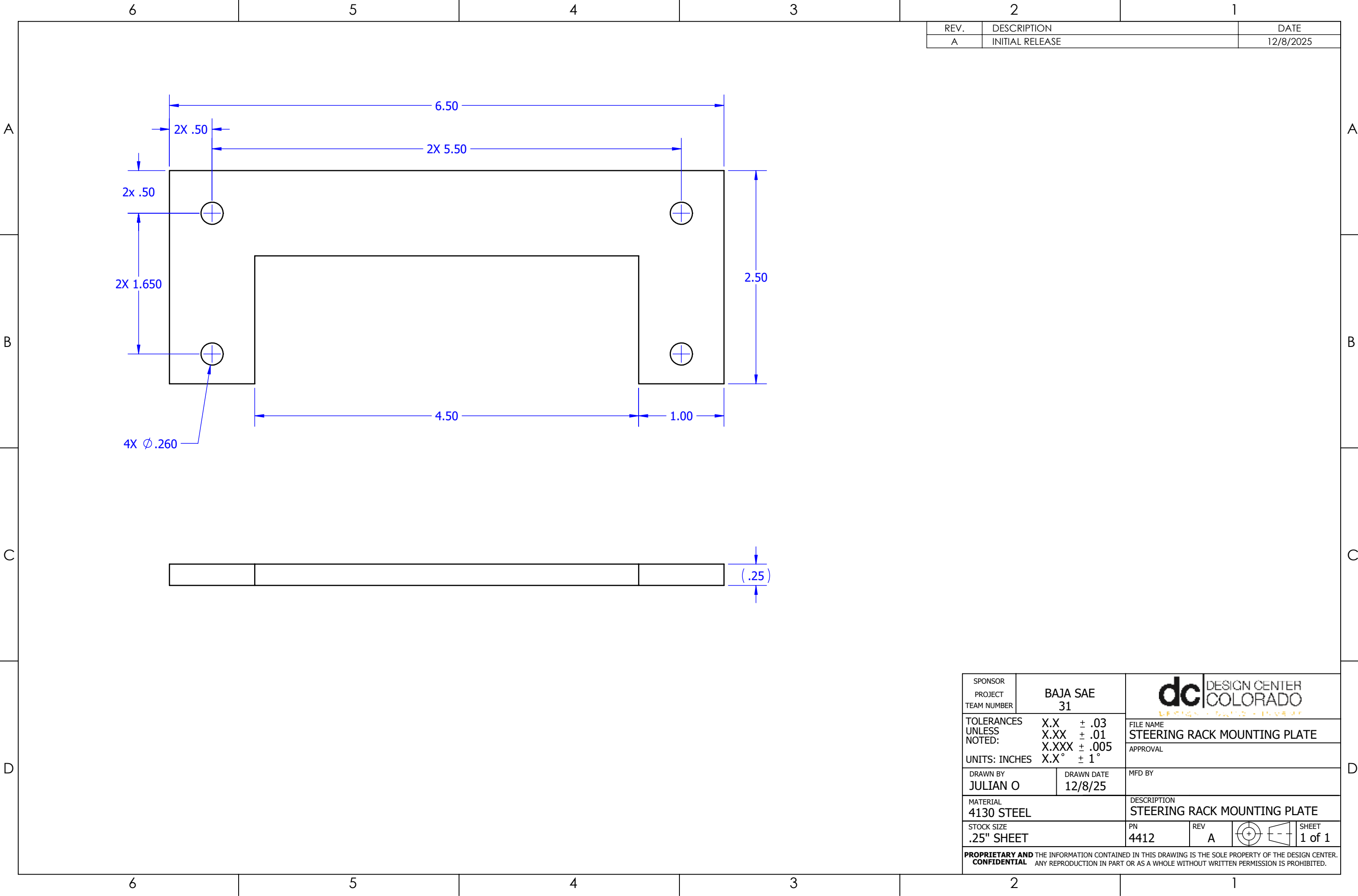




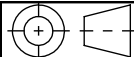








REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/8/2025

SPONSOR		dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE	
PROJECT			
TEAM NUMBER			
BAJA SAE		FILE NAME	
31		STEERING RACK MOUNTING PLATE	
TOLERANCES		APPROVAL	
UNLESS			
NOTED:			
UNITS: INCHES			
X.X ± .03			
X.XX ± .01			
X.XXX ± .005			
X.X° ± 1°			
DRAWN BY		MFD BY	
JULIAN O		DRAWN DATE	
12/8/25		DESCRIPTION	
MATERIAL		STEERING RACK MOUNTING PLATE	
4130 STEEL		PN	
STOCK SIZE		REV	
.25" SHEET		A	
			
		SHEET	
		1 of 1	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.			

6

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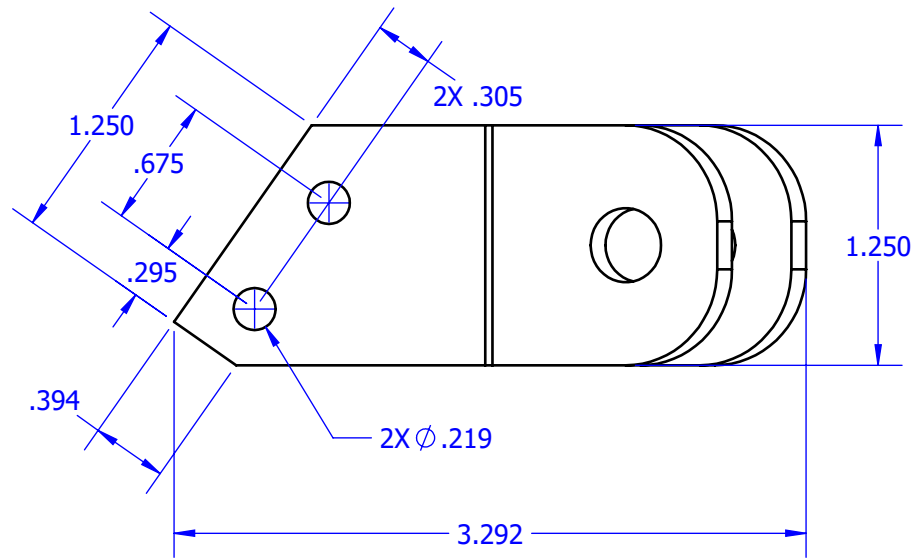
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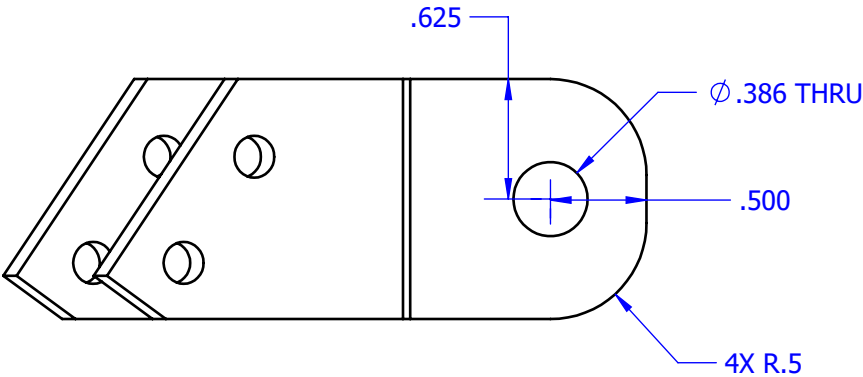
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/7/2025

A



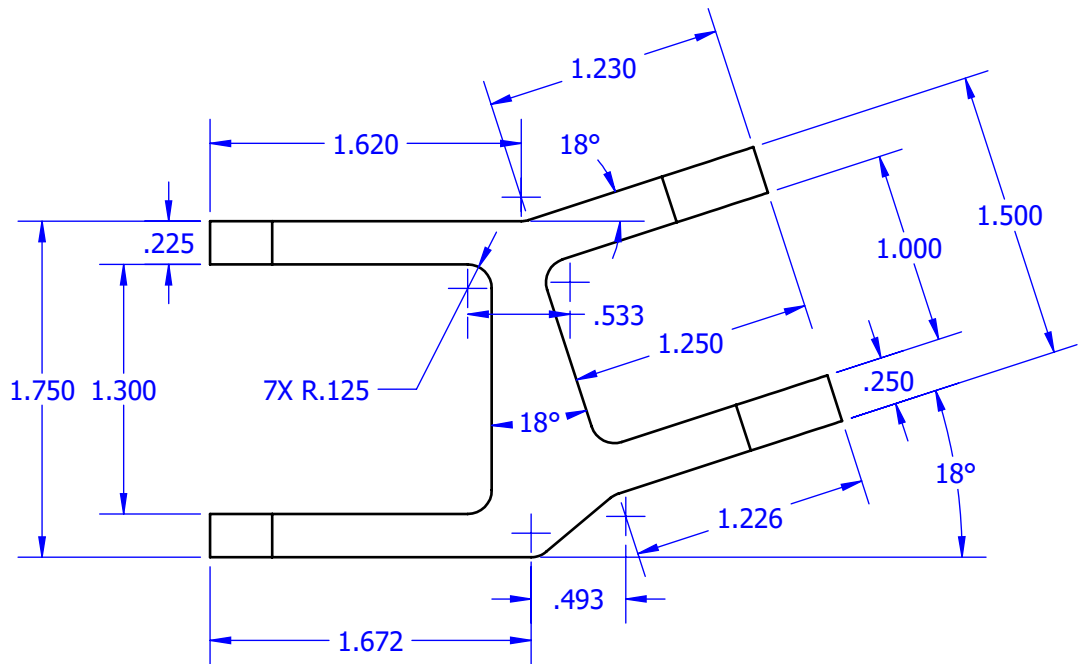
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C



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D

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE		
TOLERANCES UNLESS NOTED:		X.X ± .03 X.XX ± .01 X.XXX ± .005	FILE NAME STEERING RACK UPRIGHT ATTACHMENT	
UNITS: INCHES		X.X° ± 1°	APPROVAL	
DRAWN BY JULIAN O		DRAWN DATE 12/7/25	MFD BY	
MATERIAL 6061 T6			DESCRIPTION STEERING RACK UPRIGHT ATTACHMENT - LH	
STOCK SIZE 3" X 2.5" X 2.5"			PN 4405A	REV A
PROPRIETARY AND CONFIDENTIAL			THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
			SHEET 1 of 2	

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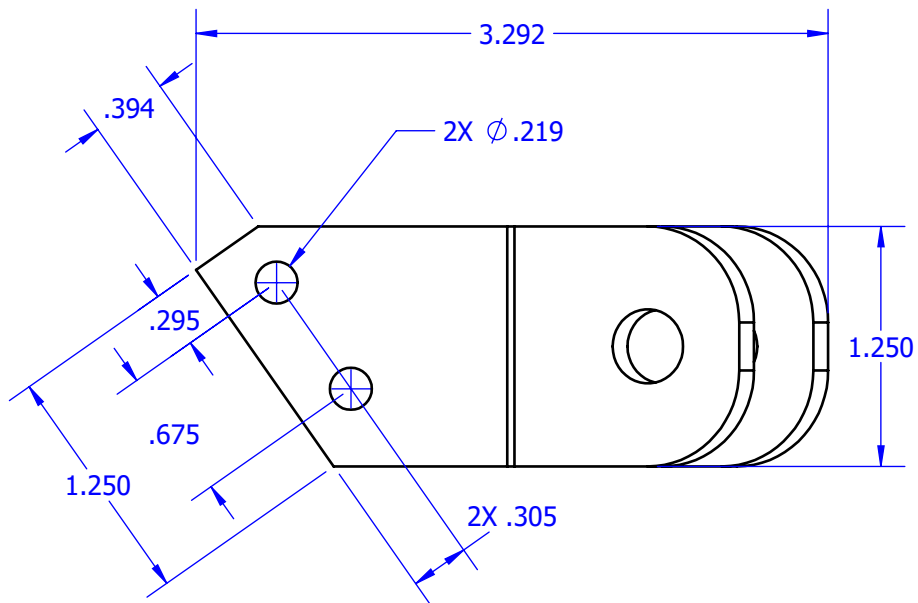
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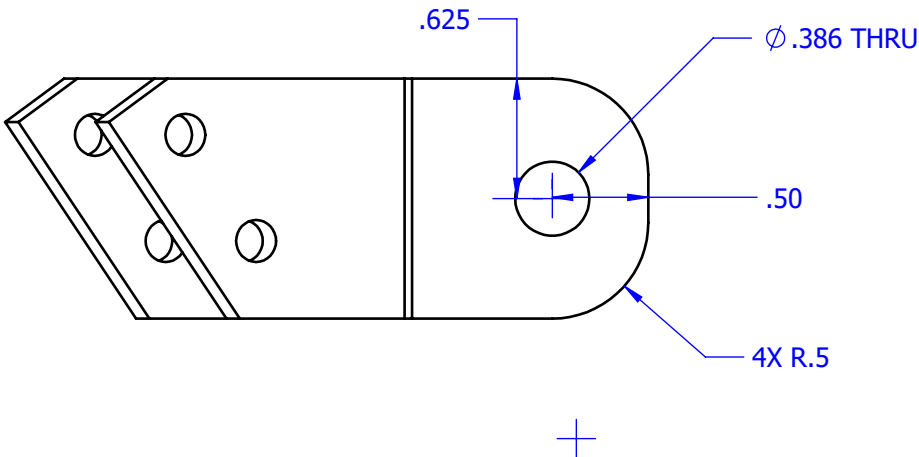
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/7/2025

A



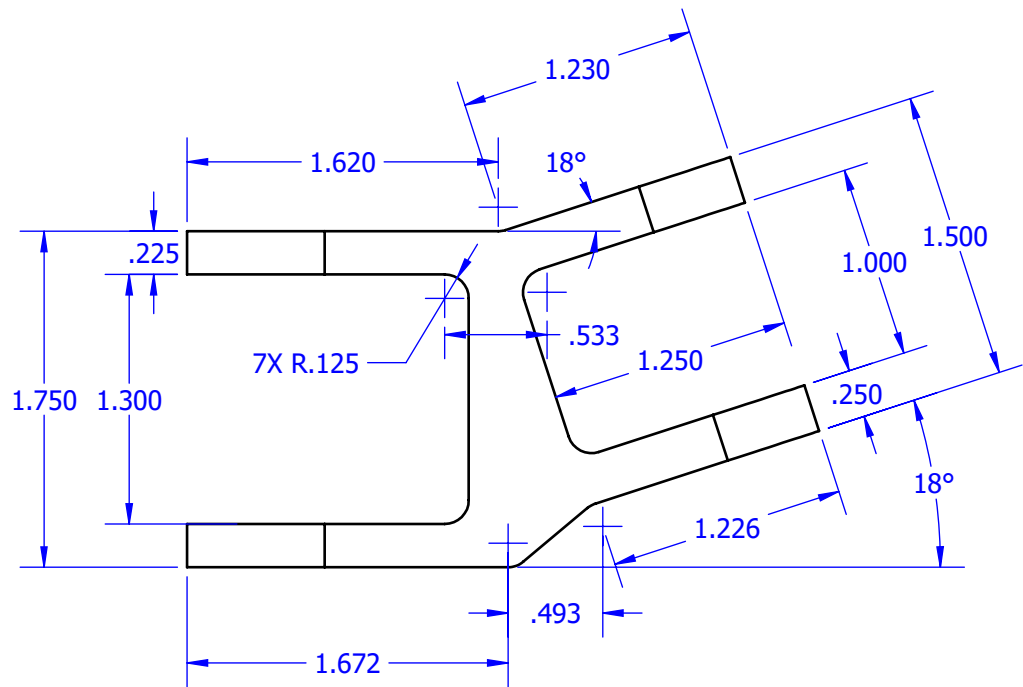
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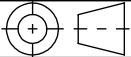
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C



C

D

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31				
TOLERANCES UNLESS NOTED:		X.X ± .03 X.XX ± .01 X.XXX ± .005	FILE NAME STEERING RACK UPRIGHT ATTACHMENT		
UNITS: INCHES		X.X° ± 1°	APPROVAL		
DRAWN BY JULIAN O		DRAWN DATE 12/7/25	MFD BY		
MATERIAL 6061 T6			DESCRIPTION STEERING RACK UPRIGHT ATTACHMENT - RH		
STOCK SIZE 3" X 2.5" X 2.5"			PN 4405B	REV A	 SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

D

6

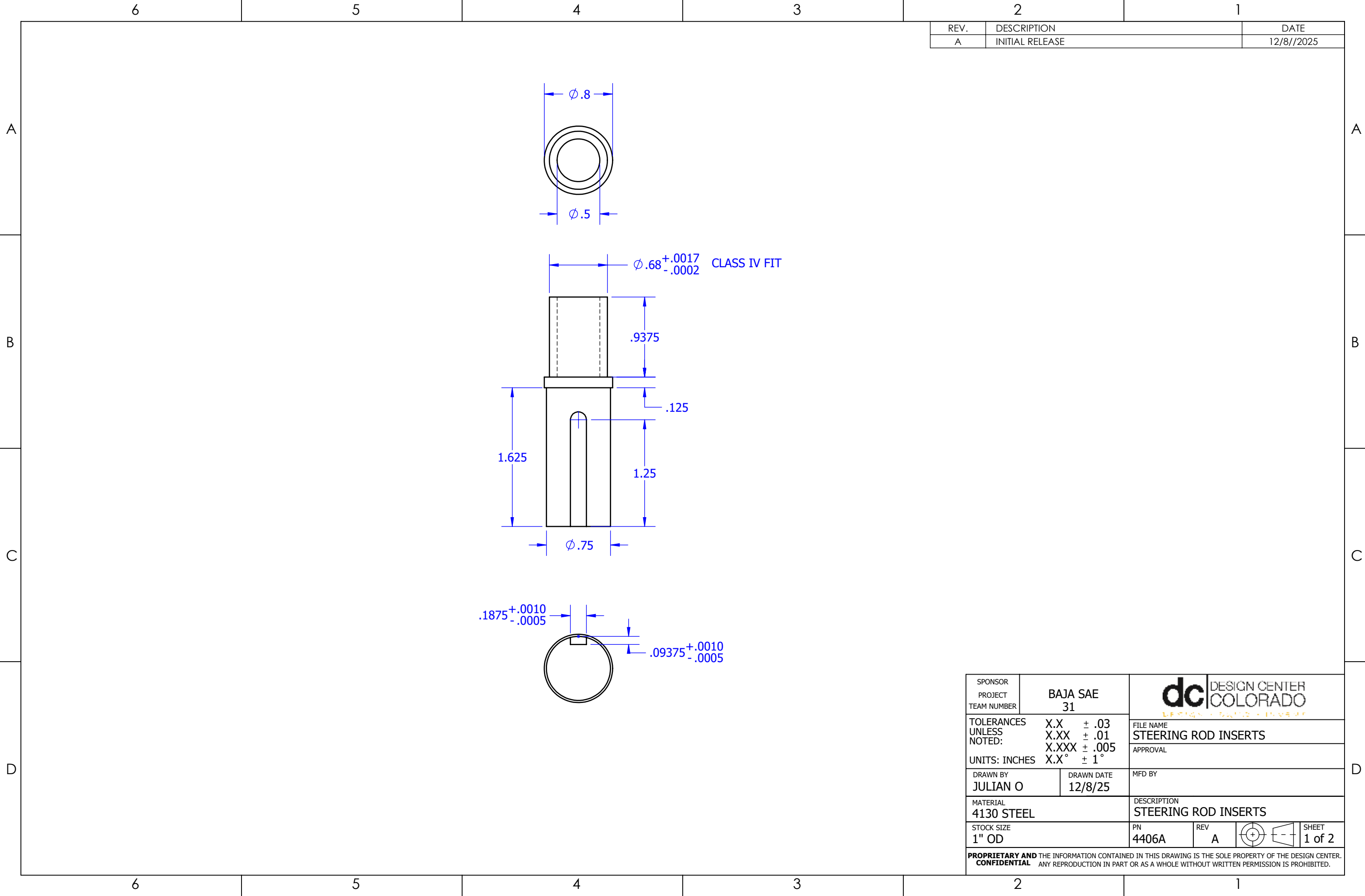
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REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/8//2025

A

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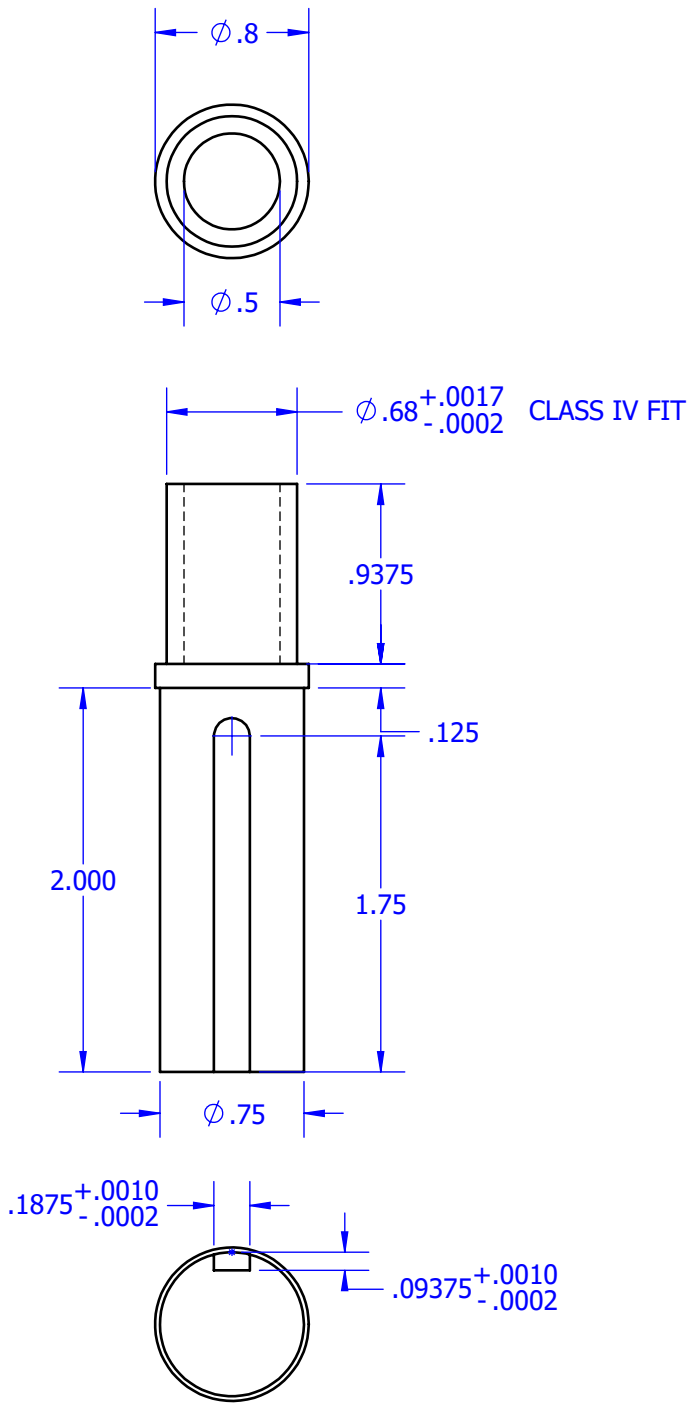
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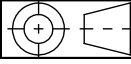
C

C

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D



SPONSOR	PROJECT	TEAM NUMBER	BAJA SAE 31		
TOLERANCES UNLESS NOTED:		X.X ± .03 X.XX ± .01 X.XXX ± .005 UNITS: INCHES X.X° ± 1°	FILE NAME STEERING ROD INSERTS		
DRAWN BY JULIAN O		DRAWN DATE 12/8/25	APPROVAL		
MATERIAL 4130 STEEL		DESCRIPTION STEERING ROD INSERTS			
STOCK SIZE 1" OD		PN 4406B	REV A		SHEET 2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

6

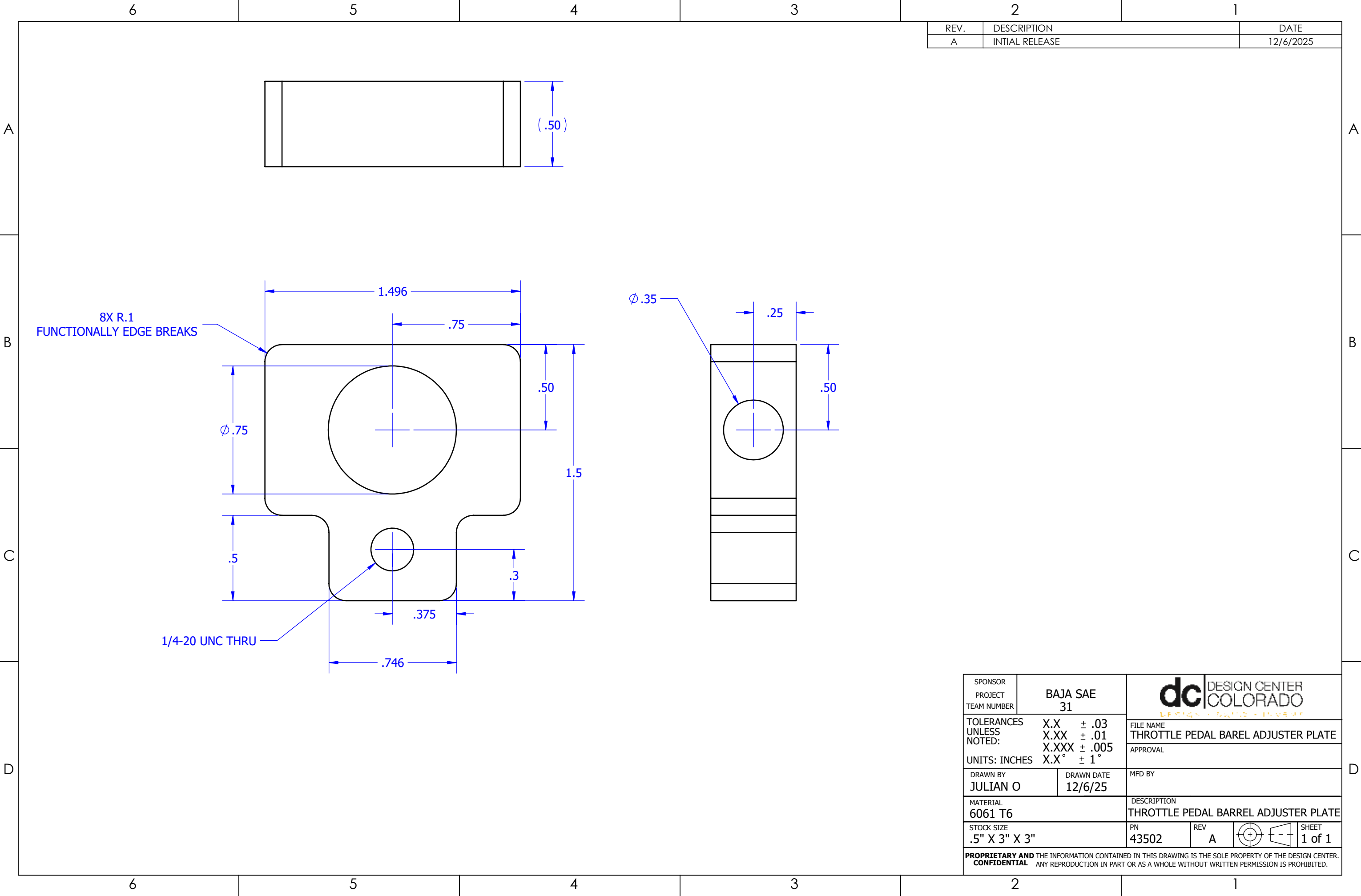
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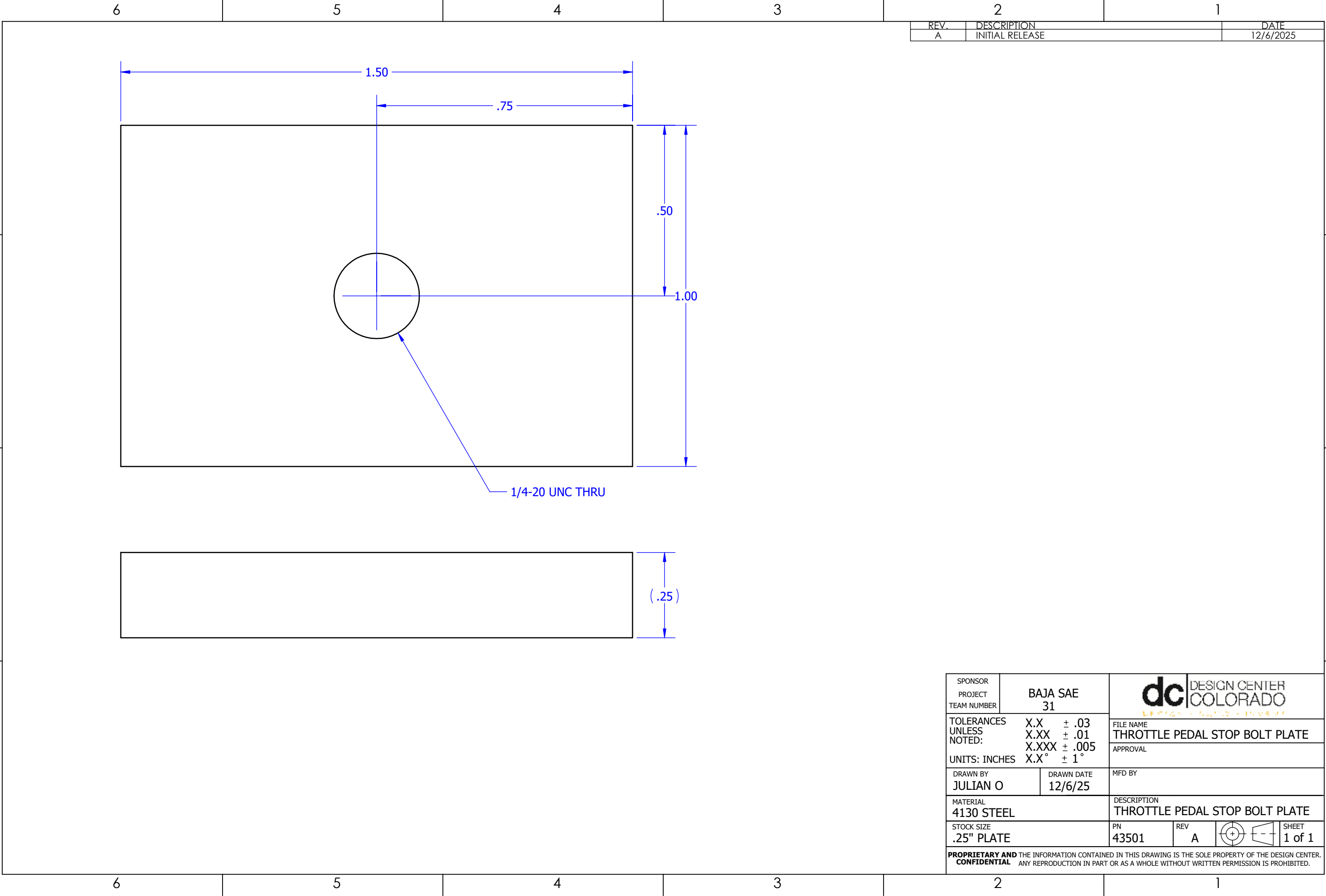
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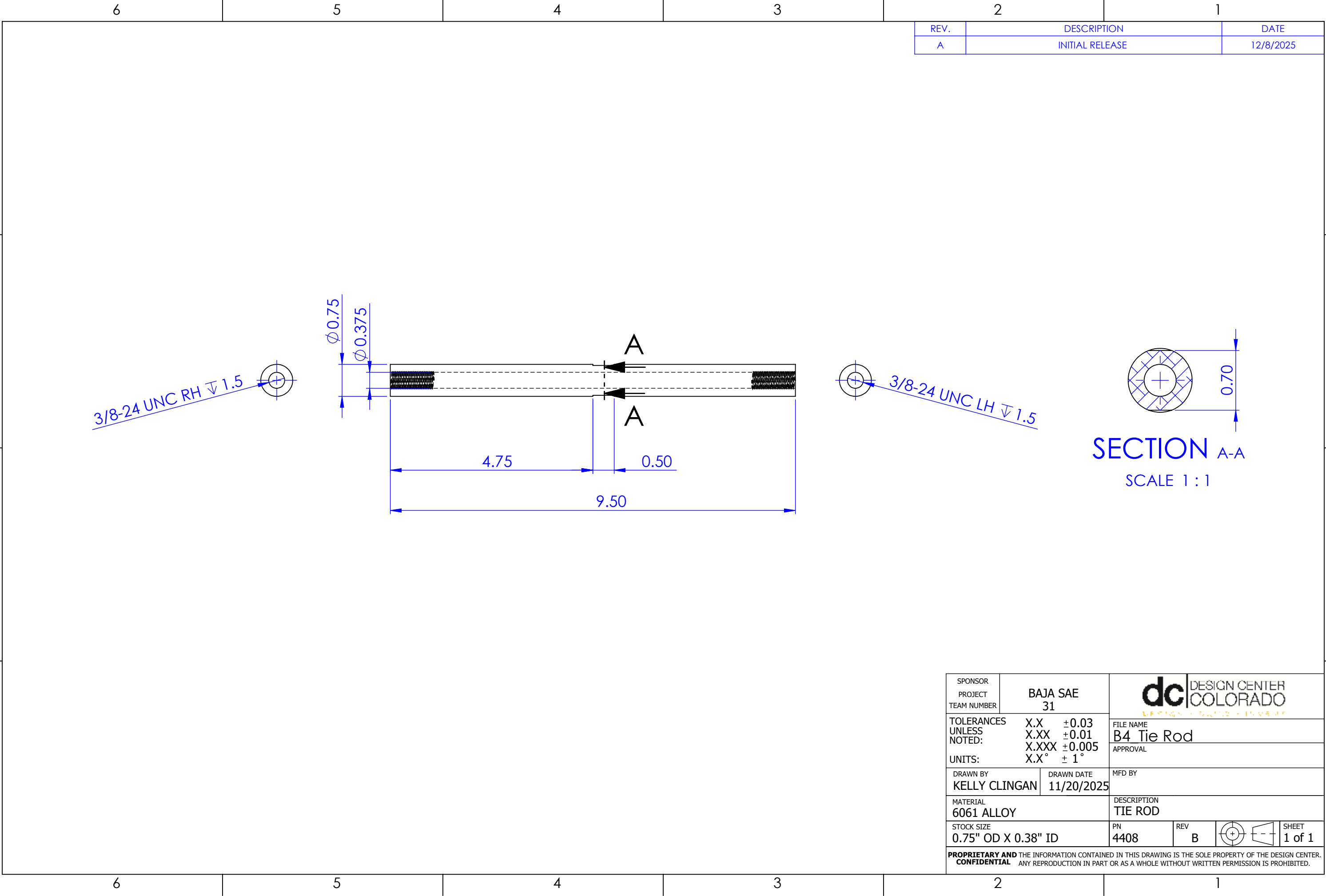
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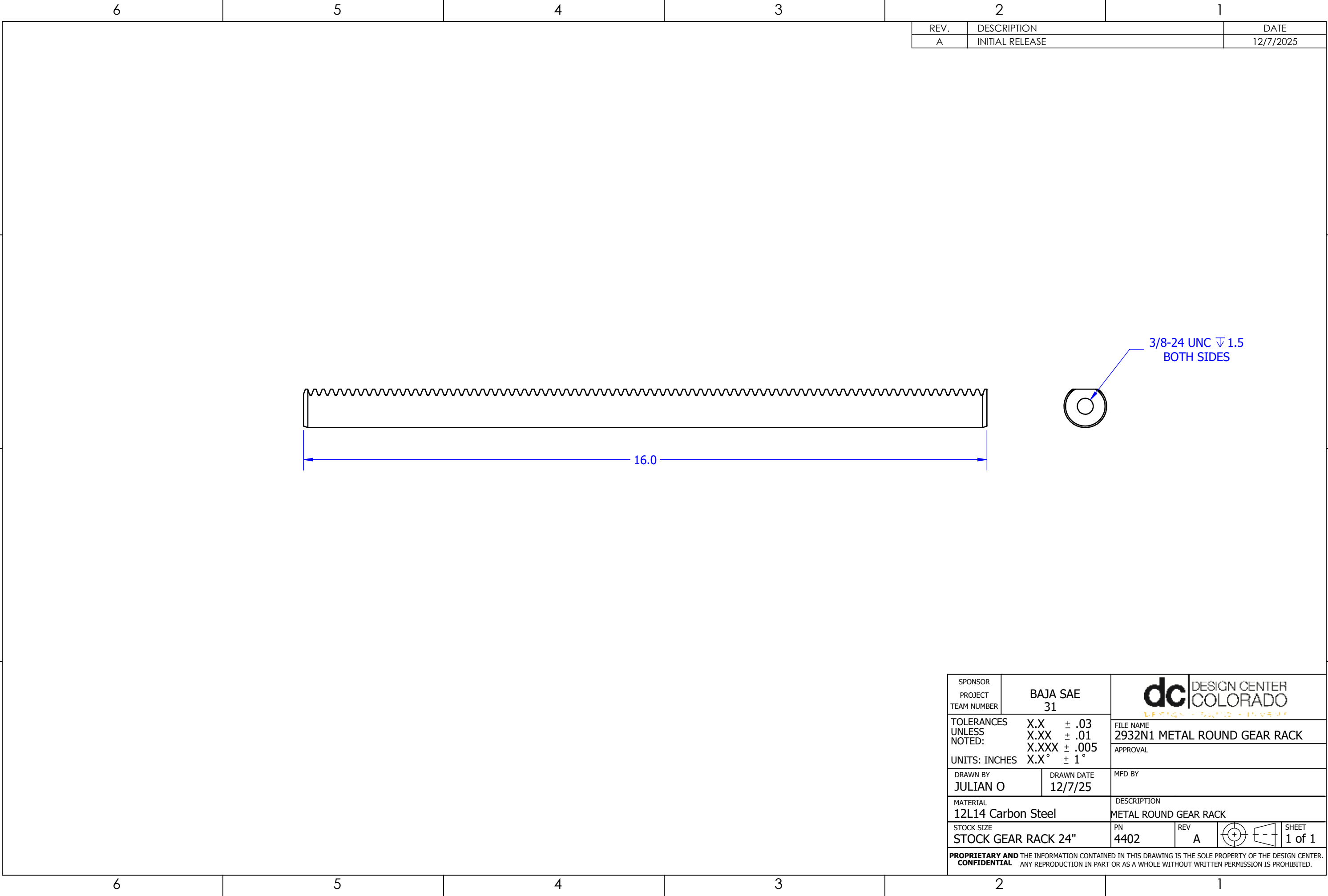
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/6/2025

SPONSOR		dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE			
PROJECT					
TEAM NUMBER					
BAJA SAE 31		FILE NAME			
TOLERANCES UNLESS NOTED: UNITS: INCHES		THROTTLE PEDAL STOP BOLT PLATE			
		APPROVAL			
DRAWN BY JULIAN O	DRAWN DATE 12/6/25	MFD BY			
MATERIAL 4130 STEEL		DESCRIPTION THROTTLE PEDAL STOP BOLT PLATE			
STOCK SIZE .25" PLATE		PN 43501	REV A		SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



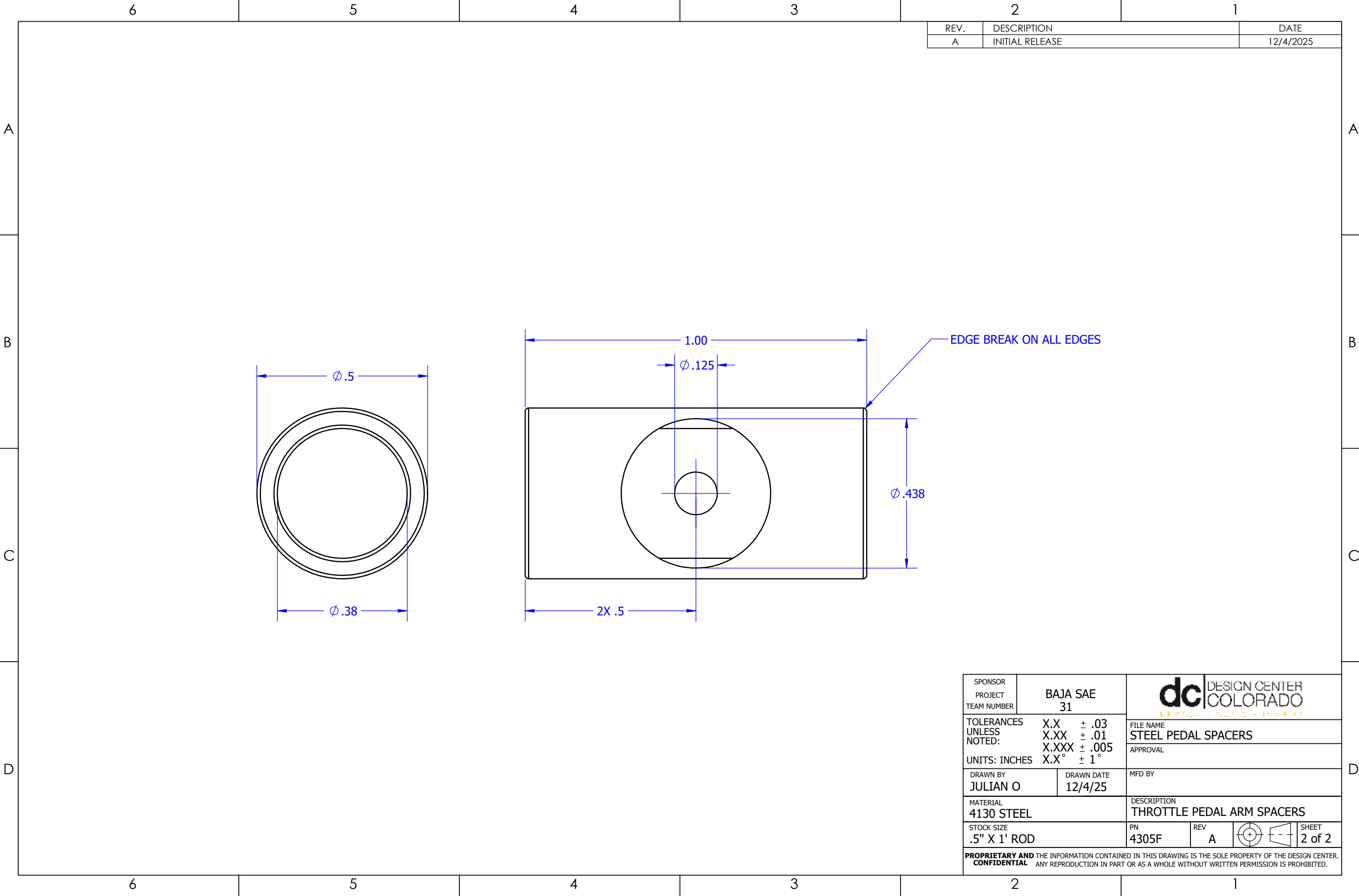
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/8/2025

SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT			
TOLERANCES UNLESS NOTED:		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005	FILE NAME B4 Tie Rod		
UNITS:		X.X° ± 1°	APPROVAL		
DRAWN BY KELLY CLINGAN		DRAWN DATE 11/20/2025	MFD BY		
MATERIAL 6061 ALLOY			DESCRIPTION TIE ROD		
STOCK SIZE 0.75" OD X 0.38" ID			PN 4408	REV B	SHEET 1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					



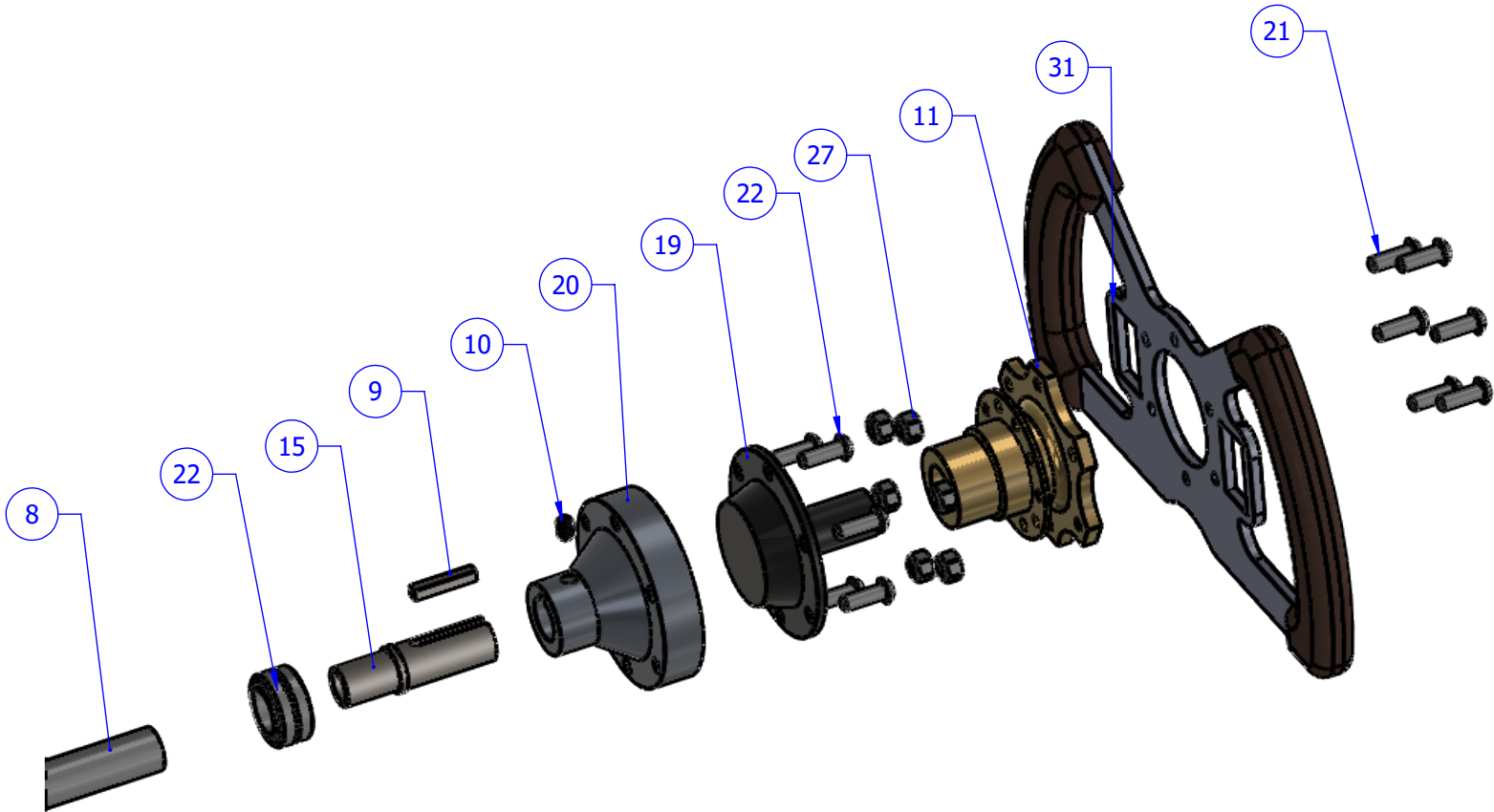
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/7/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO WE DESIGN • WE BUILD • WE MEET	
TOLERANCES UNLESS NOTED:		X.X ± .03		FILE NAME	
		X.XX ± .01		2932N1 METAL ROUND GEAR RACK	
UNITS: INCHES		X.XXX ± .005		APPROVAL	
		X.X° ± 1°			
DRAWN BY JULIAN O		DRAWN DATE 12/7/25		MFD BY	
MATERIAL 12L14 Carbon Steel				DESCRIPTION METAL ROUND GEAR RACK	
STOCK SIZE STOCK GEAR RACK 24"		PN 4402	REV A		SHEET 1 of 1
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BOM Table			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	4407	STEERING COLUMN	1
9	4411	KEY FOR STEERING ROD INSERTS	1
10	91375A535	Alloy Steel Cup-Point Set Screw	1
11	N/A	QUICK RELEASE STEERING WHEEL MOUNT	1
15	4406A	STEERING ROD INSERTS	1
19	N/A	QUICK RELEASE COUPLER	1
20	4404	STEERING WHEEL QUICK RELEASE MOUNTING ADAPTER	1
21	92949A540	1/4-20 X .75" Button Head Hex Drive Screw	12
22	63195K25	STEARING COLUMN SUPPORT BEARING	1
27	97135A414	High-Strength Steel Nylon-Insert Locknut	6
31	4403	STEERING WHEEL	1

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

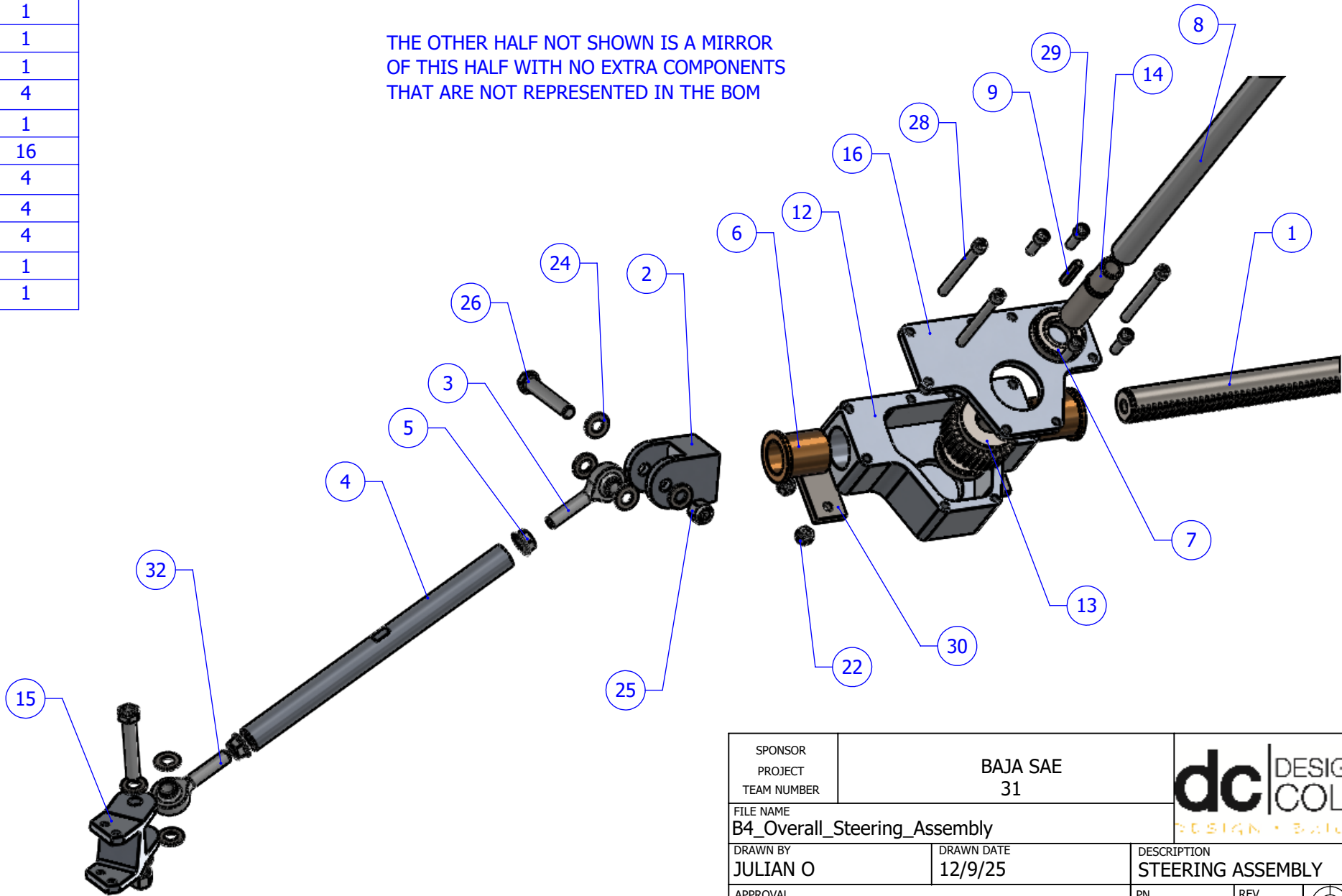


SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • BUILD • INVENT	
FILE NAME B4_Overall_Steering_Assembly					
DRAWN BY JULIAN O		DRAWN DATE 12/9/25		DESCRIPTION STEERING ASSEMBLY	
APPROVAL		PN 441	REV A	 	SHEET 1 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTERUNIVERSITY OF COLORADO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

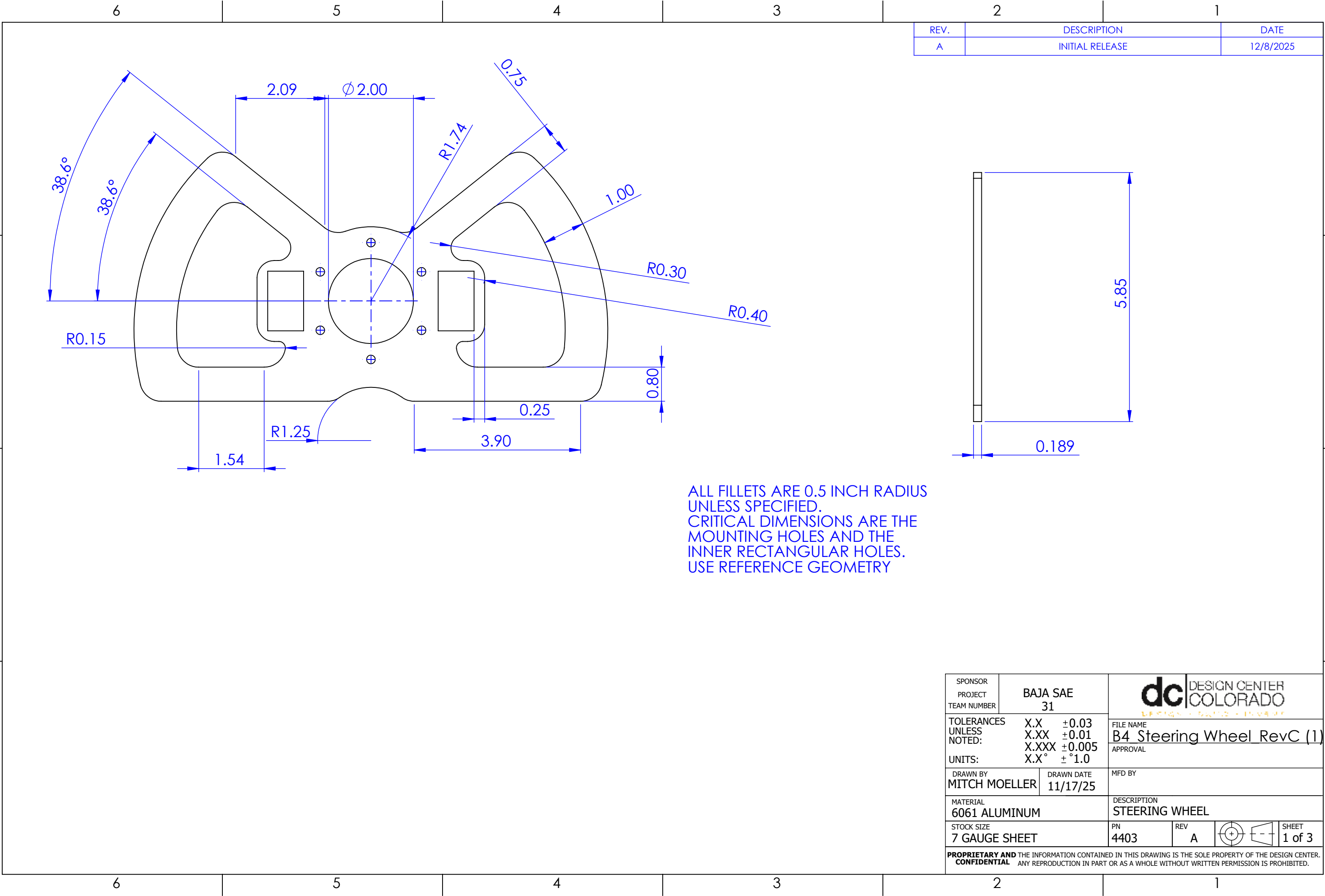
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4402	METAL ROUND GEAR RACK	1
2	4401	STEERING RACK KNUCKLES	2
3	6960T231	Super-Swivel Ball Joint Rod End - RH	1
4	4408	TIE ROD	2
5	99904A138	Steel Serrated Flange Locknut	4
6	1677K385	Oil-Embedded Sleeve Bearing	2
7	2342K168	Permanently Lubricated Ball Bearing	2
8	4407	STEERING COLUMN	1
9	4411	KEY FOR STEERING ROD INSERTS	1
10	91375A535	Alloy Steel Cup-Point Set Screw	2
12	4409	STEERING RACK HOUSING	1
13	5172T23	PINION GEAR	1
14	4406B	STEERING ROD INSERTS	1
16	4405A	STEERING RACK UPRIGHT ATTACHMENT - LH	1
17	4405B	STEERING RACK UPRIGHT ATTACHMENT - RH	1
18	4410	STEERING RACK COVER/LID	1
22	97135A414	High-Strength Steel Nylon-Insert Locknut	4
23	63195K25	Swivel Joint	1
24	92141A228	18-8 Stainless Steel Washer	16
25	90630A155	High-Strength Steel Nylon-Insert Locknut	4
26	92620A659	Zinc Yellow-Chromate Plated Hex Head Screw	4
29	91251A540	Black-Oxide Alloy Steel Socket Head Screw	4
30	4412	STEERING RACK MOUNTING PLATE	1
32	6960T231	Super-Swivel Ball Joint Rod End - LH	1

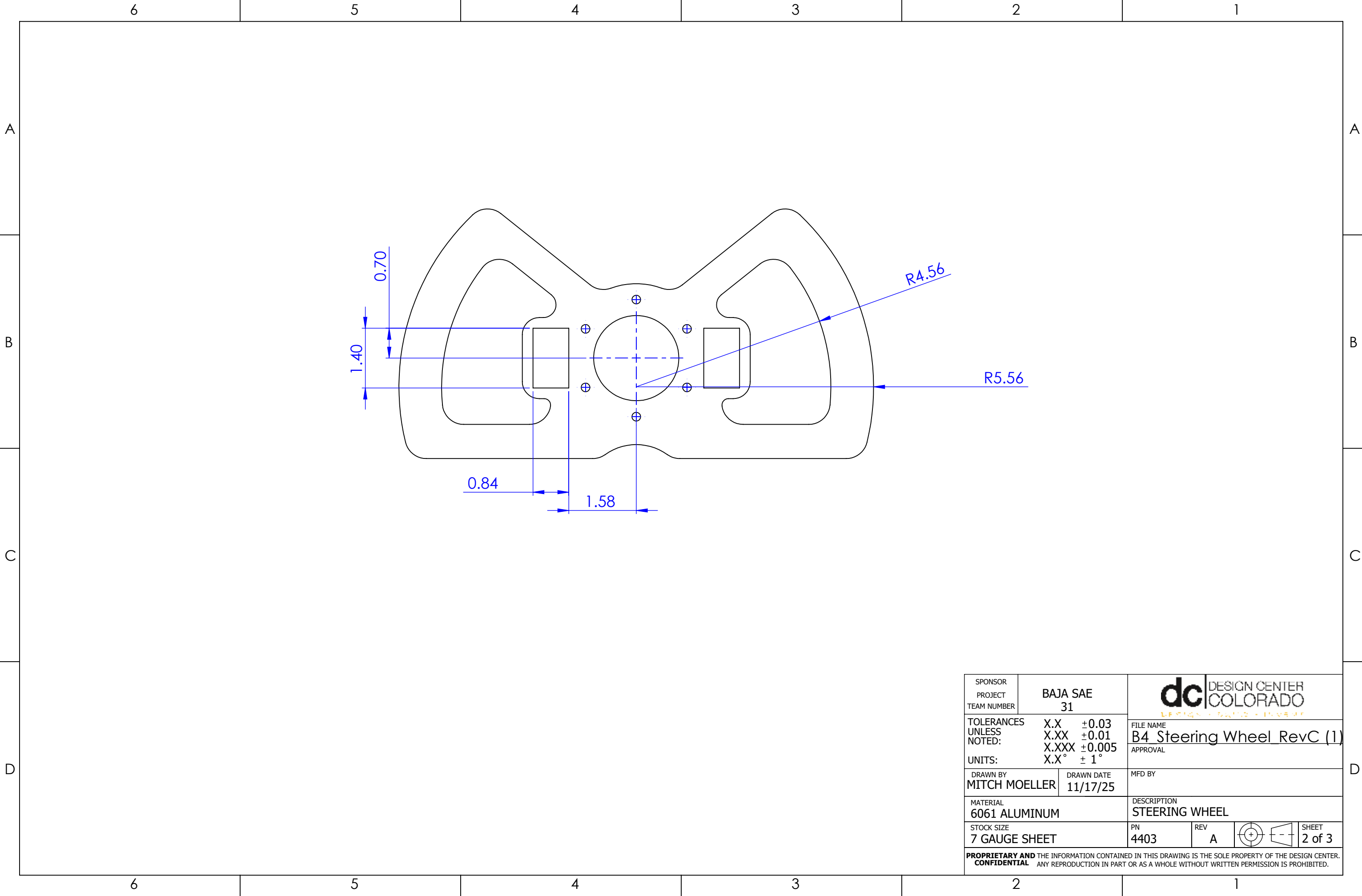
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/9/2025

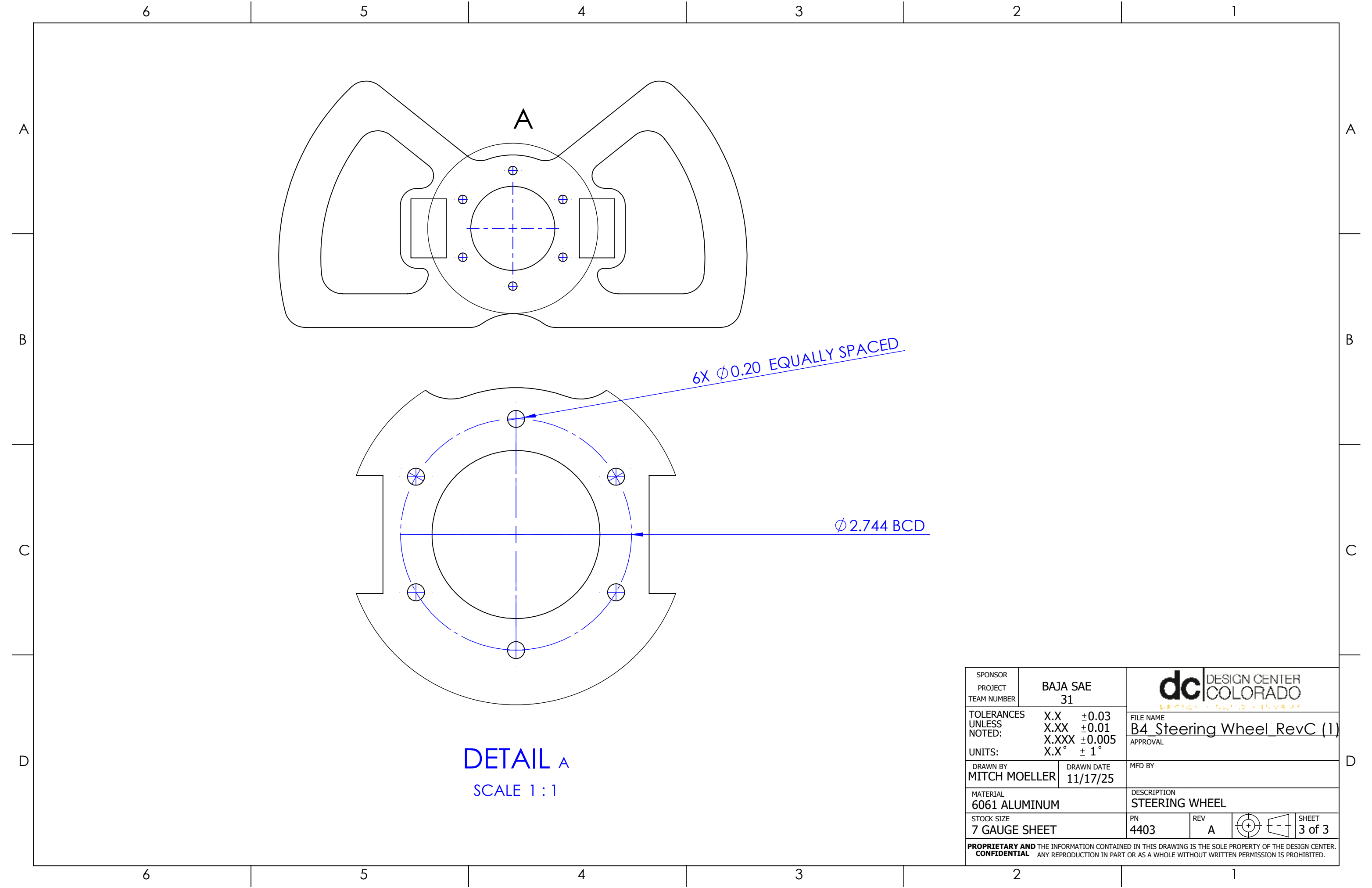
THE OTHER HALF NOT SHOWN IS A MIRROR OF THIS HALF WITH NO EXTRA COMPONENTS THAT ARE NOT REPRESENTED IN THE BOM



SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO	
FILE NAME B4_Overall_Steering_Assembly		DESIGN • BUILD • INVENT	
DRAWN BY JULIAN O	DRAWN DATE 12/9/25	DESCRIPTION STEERING ASSEMBLY	
APPROVAL		PN 441	REV A
		SHEET 2 of 2	
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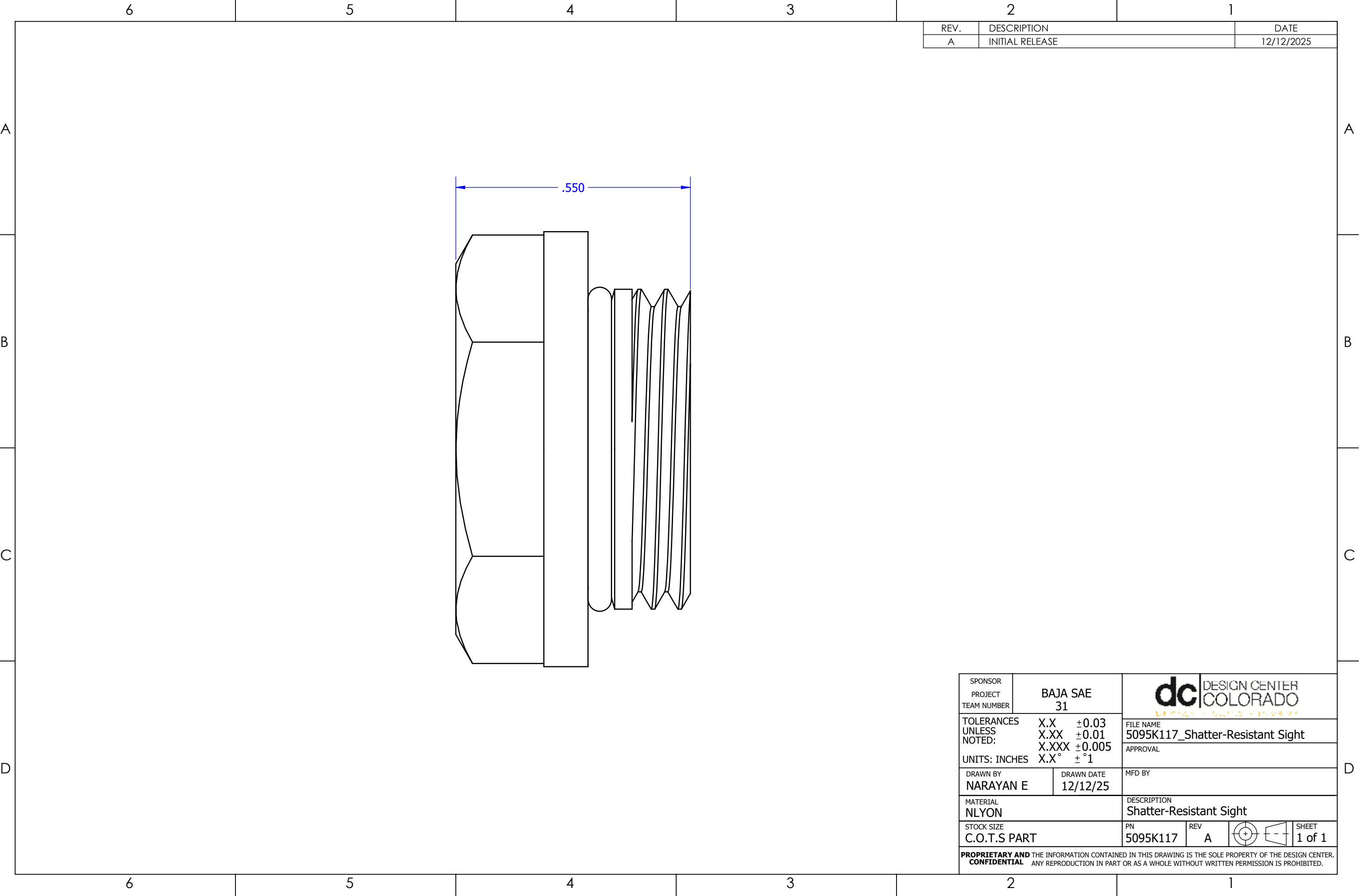




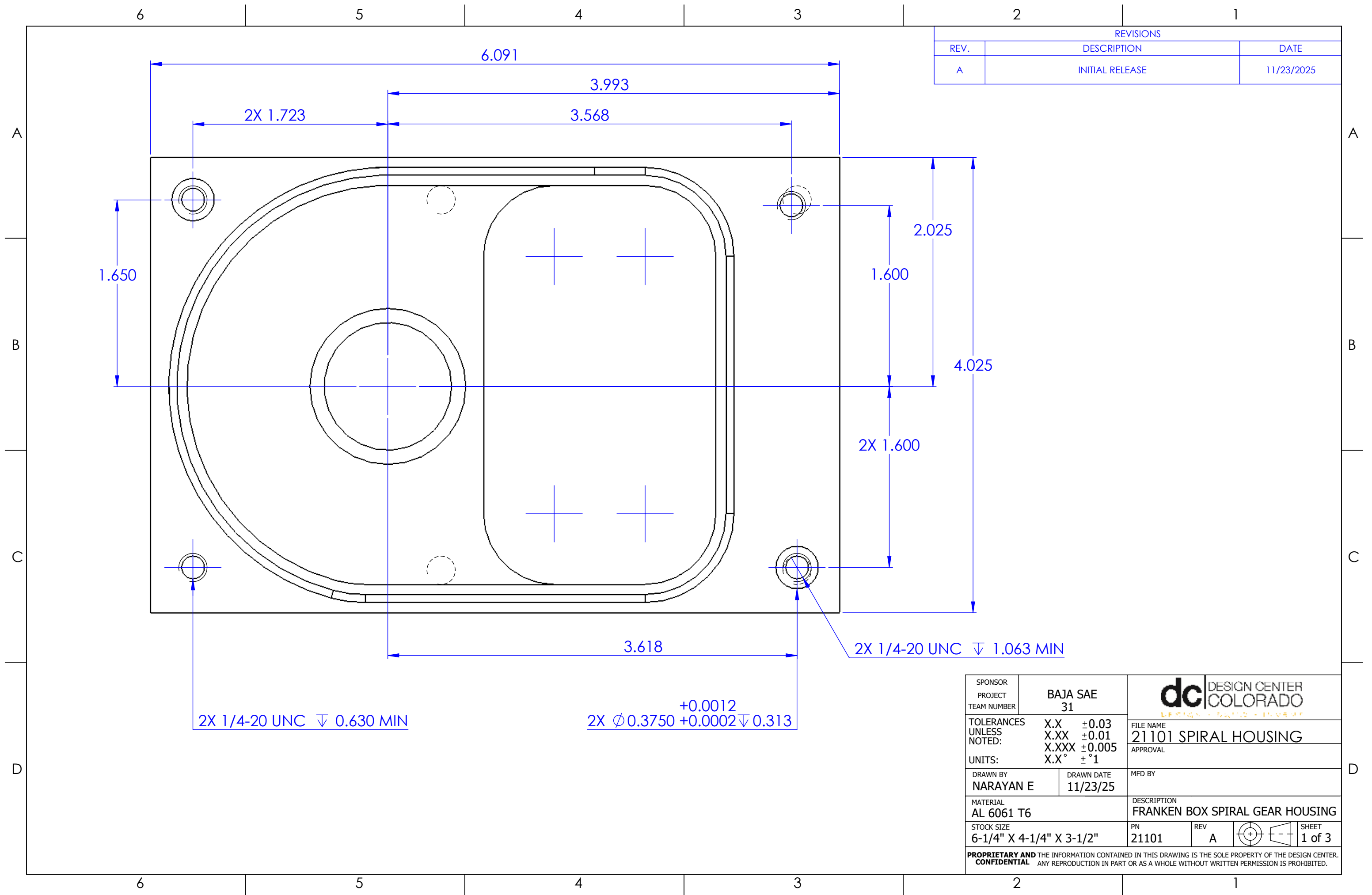


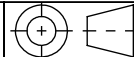
DETAIL A
SCALE 1 : 1

SPONSOR		dc DESIGN CENTER COLORADO DESIGN • DRAWING • DESIGN	
PROJECT			
TEAM NUMBER			
BAJA SAE		FILE NAME	
31		B4 Steering Wheel RevC (1)	
TOLERANCES		APPROVAL	
UNLESS			
NOTED:			
UNITS:			
X.X ±0.03			
X.XX ±0.01			
X.XXX ±0.005			
X.X° ± 1°			
DRAWN BY		MFD BY	
MITCH MOELLER			
DRAWN DATE		DESCRIPTION	
11/17/25		STEERING WHEEL	
MATERIAL		PN	
6061 ALUMINUM		4403	
STOCK SIZE		REV	
7 GAUGE SHEET		A	
			
		SHEET	
		3 of 3	
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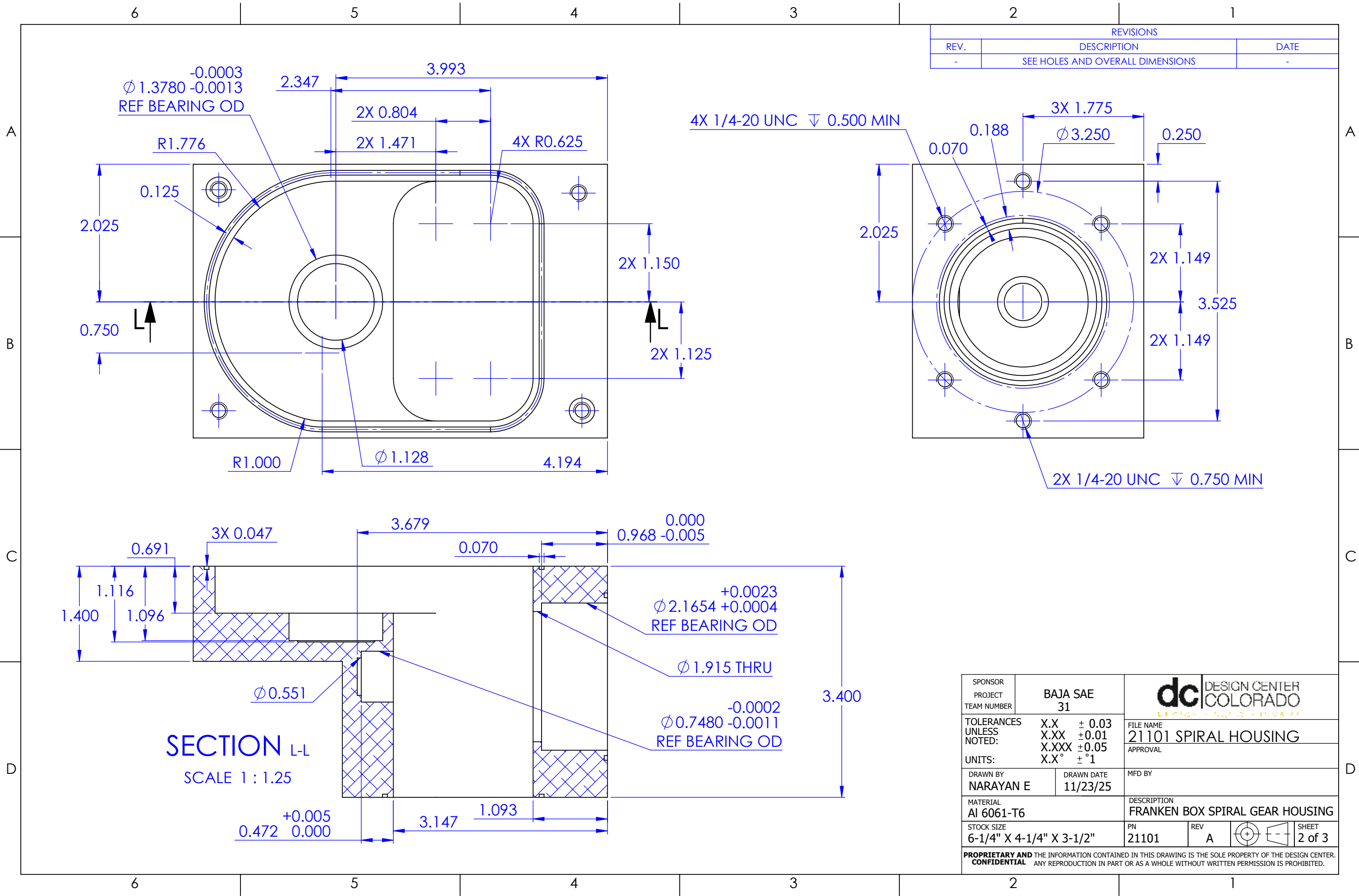


REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/23/2025



SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT			
TOLERANCES UNLESS NOTED:		X.X ±0.03		FILE NAME			
		X.XX ±0.01		21101 SPIRAL HOUSING			
UNITS:		X.XXX ±0.005		APPROVAL			
		X.X° ±°1					
DRAWN BY NARAYAN E		DRAWN DATE 11/23/25		MFD BY			
MATERIAL AL 6061 T6				DESCRIPTION FRANKEN BOX SPIRAL GEAR HOUSING			
STOCK SIZE 6-1/4" X 4-1/4" X 3-1/2"				PN 21101	REV A		SHEET 1 of 3
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.							

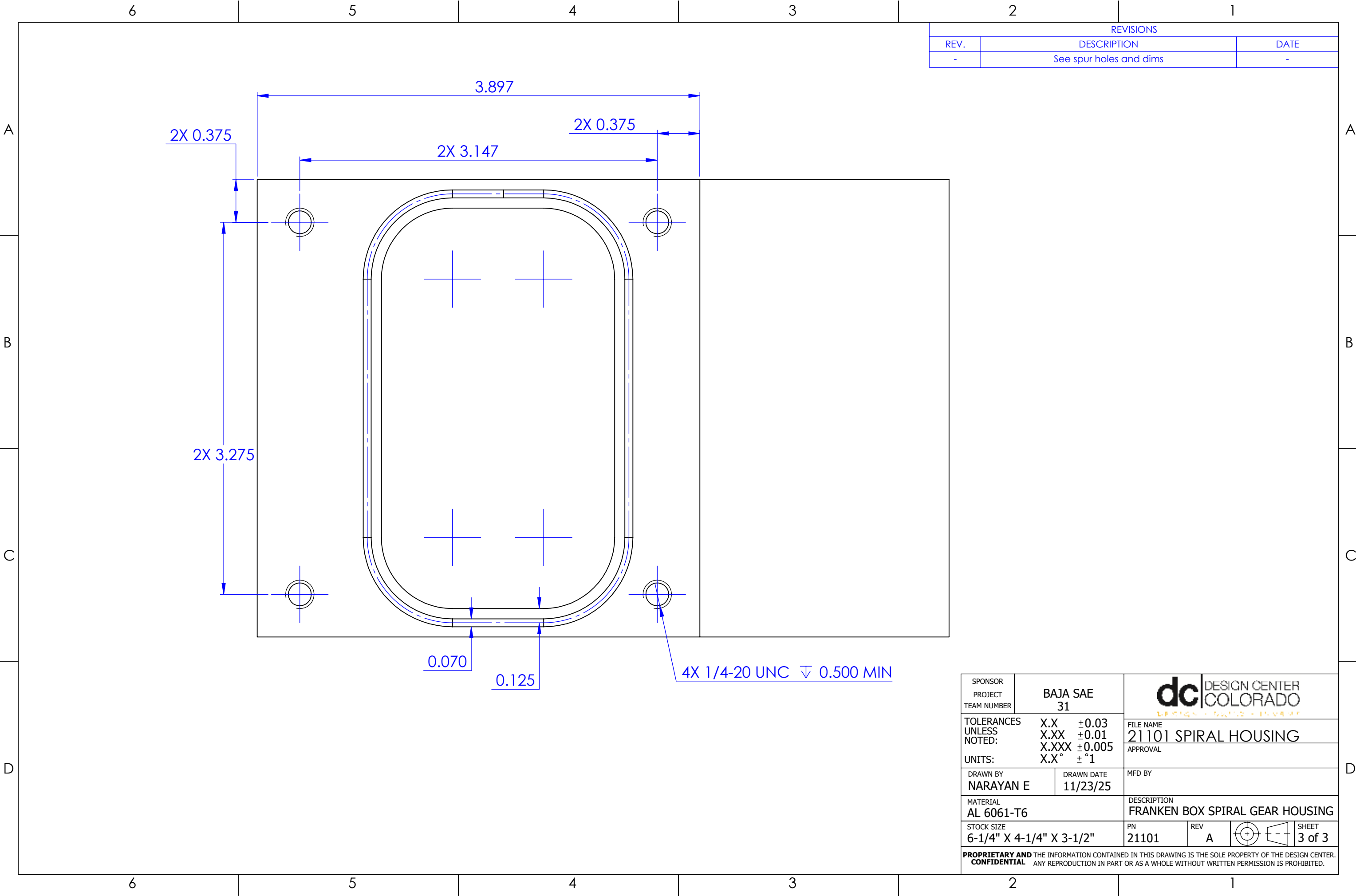
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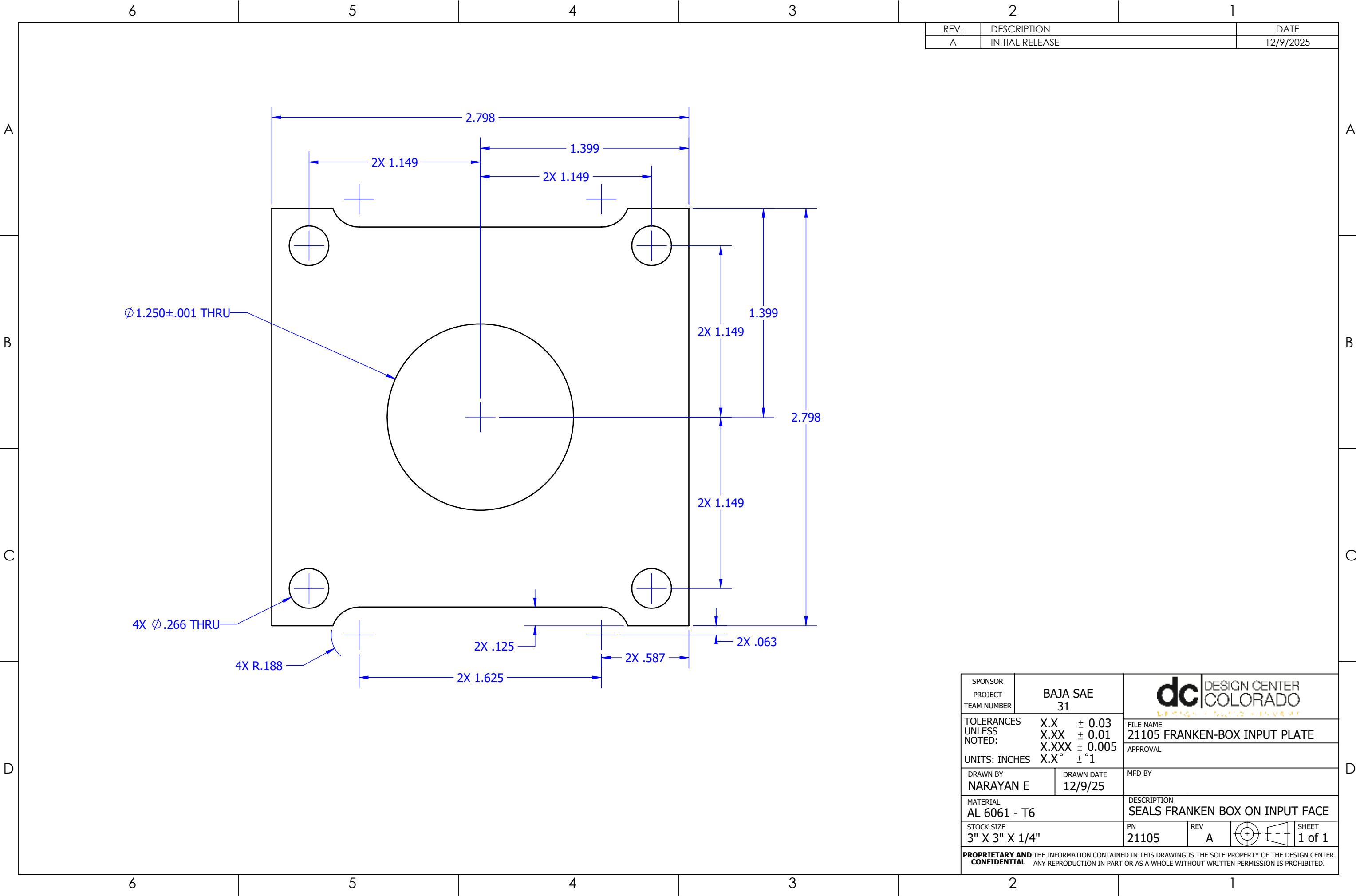


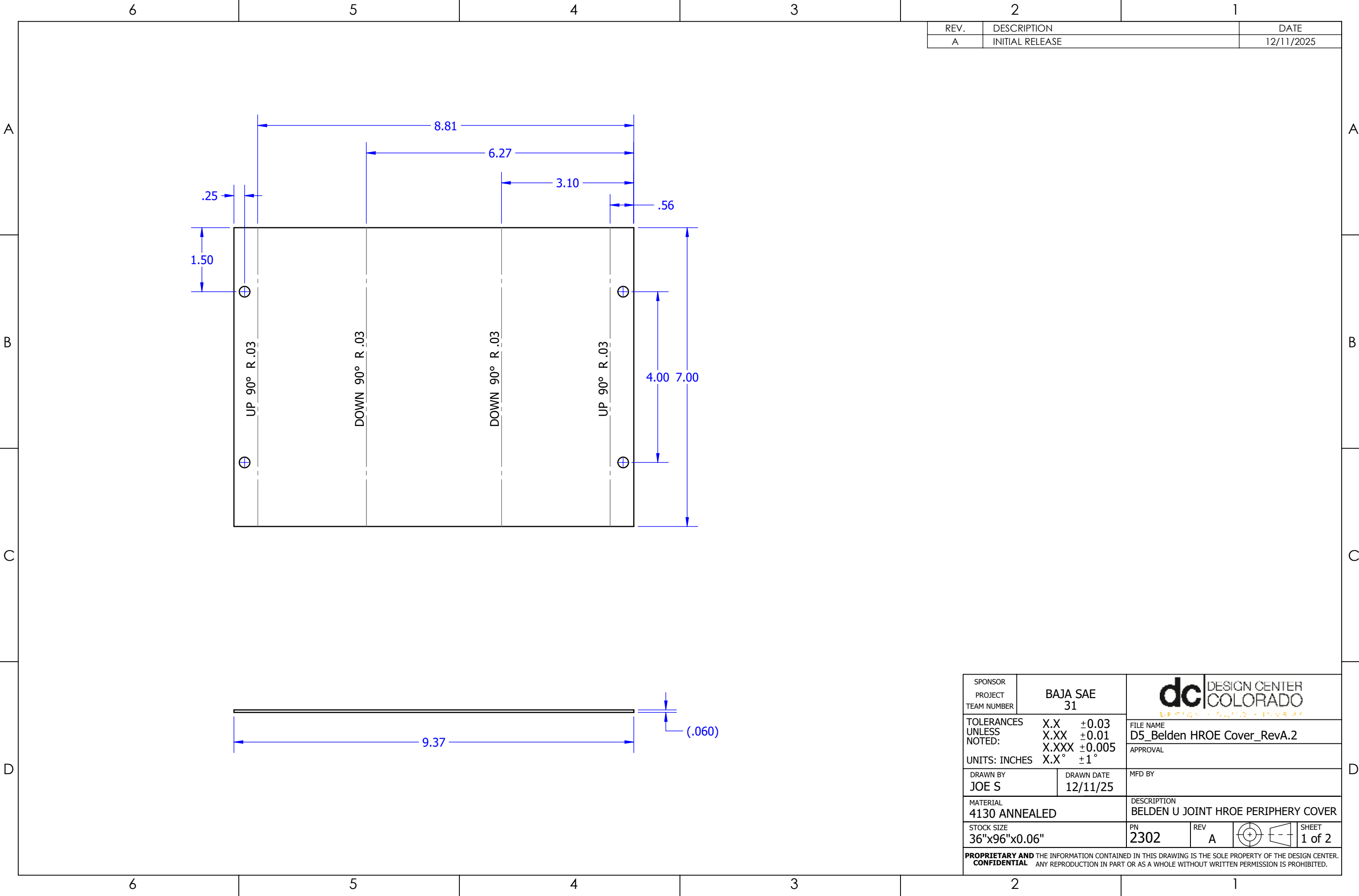
REVISIONS		
REV.	DESCRIPTION	DATE
-	SEE HOLES AND OVERALL DIMENSIONS	-

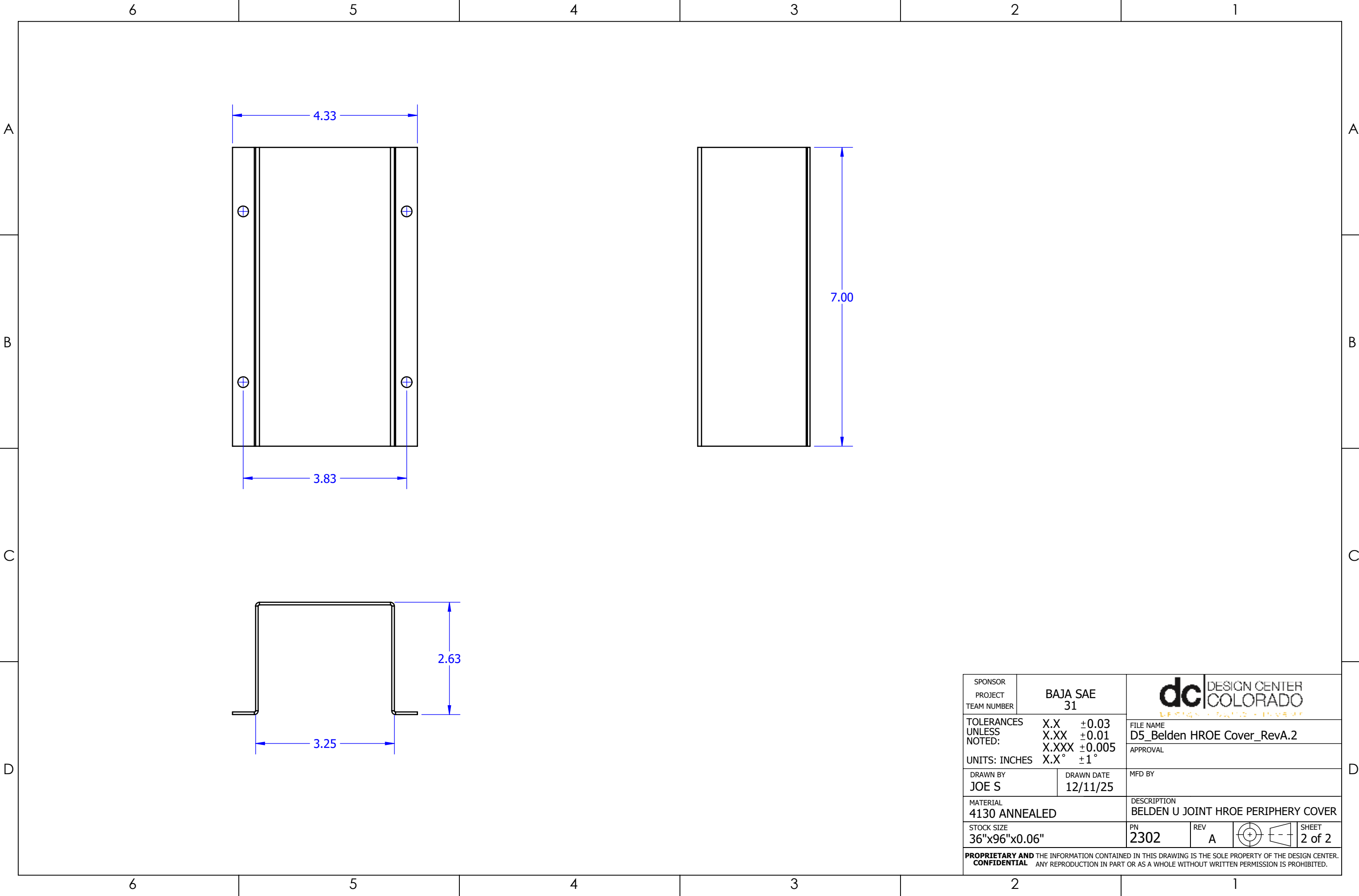
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • IMPROVE		
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.05 X.X° ± 1°	FILE NAME 21101 SPIRAL HOUSING	
UNITS:			APPROVAL	
DRAWN BY NARAYAN E		DRAWN DATE 11/23/25	MFD BY	
MATERIAL Al 6061-T6			DESCRIPTION FRANKEN BOX SPIRAL GEAR HOUSING	
STOCK SIZE 6-1/4" X 4-1/4" X 3-1/2"			PN 21101	REV A
PROPRIETARY AND CONFIDENTIAL				SHEET 2 of 3

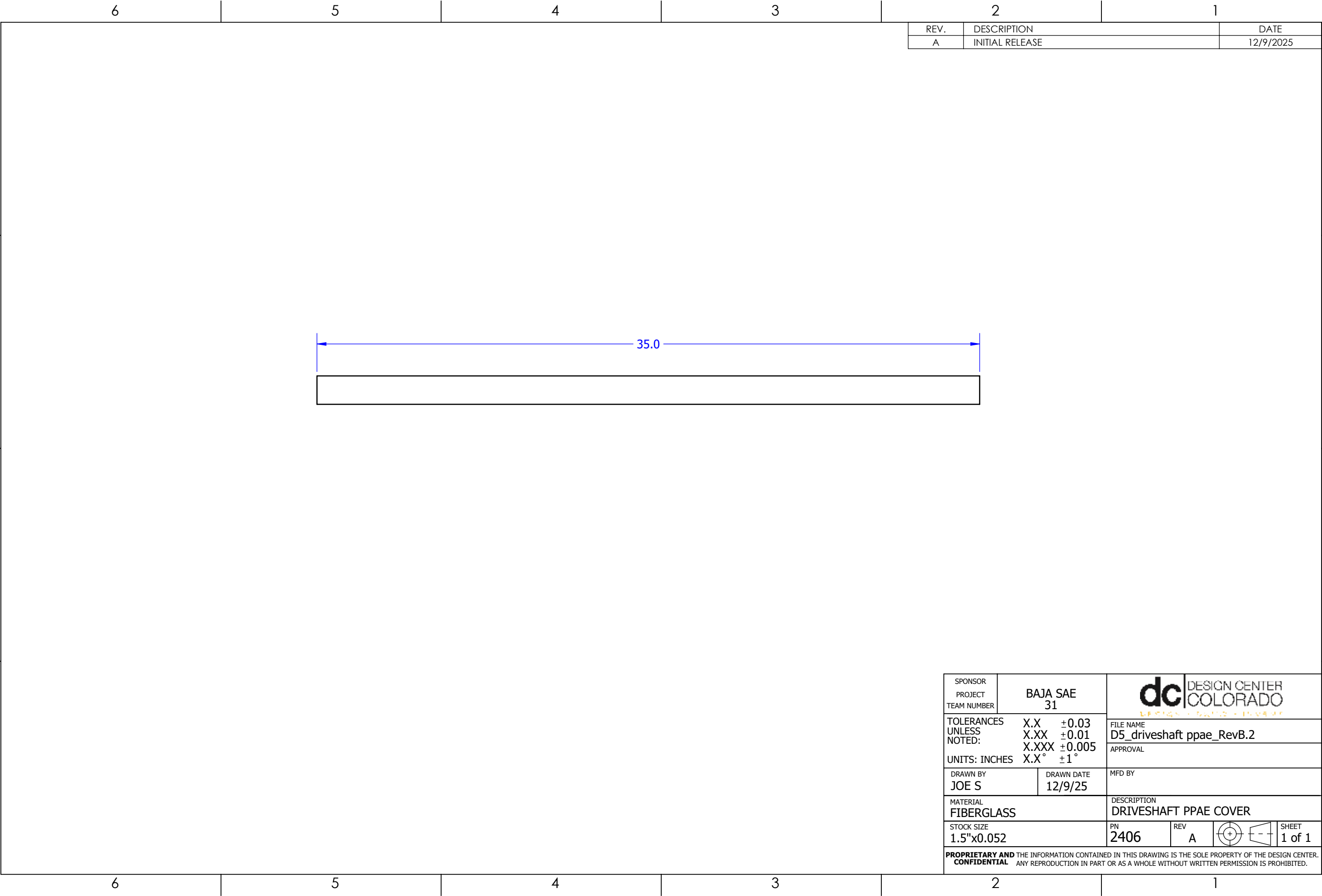
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.

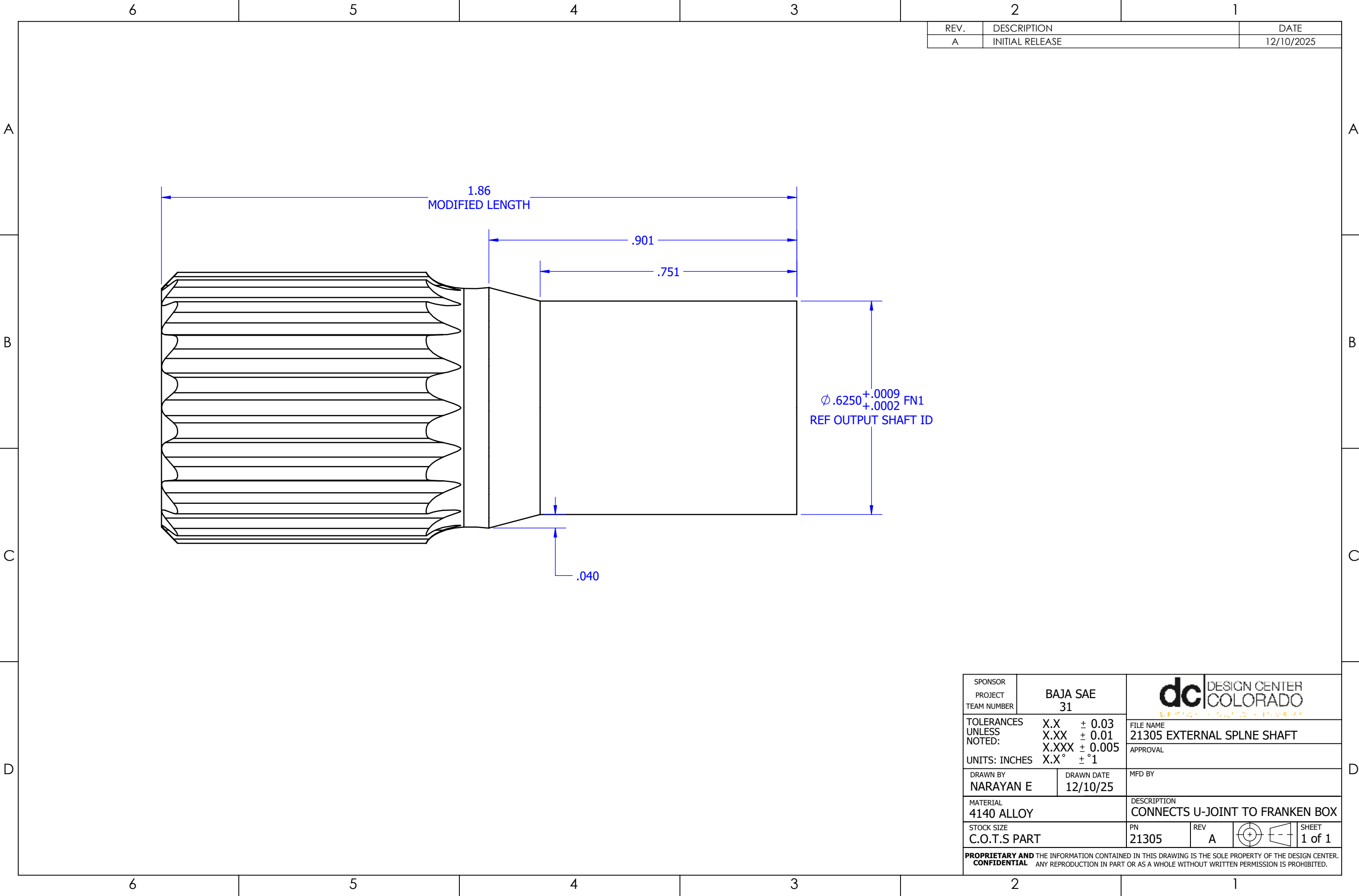


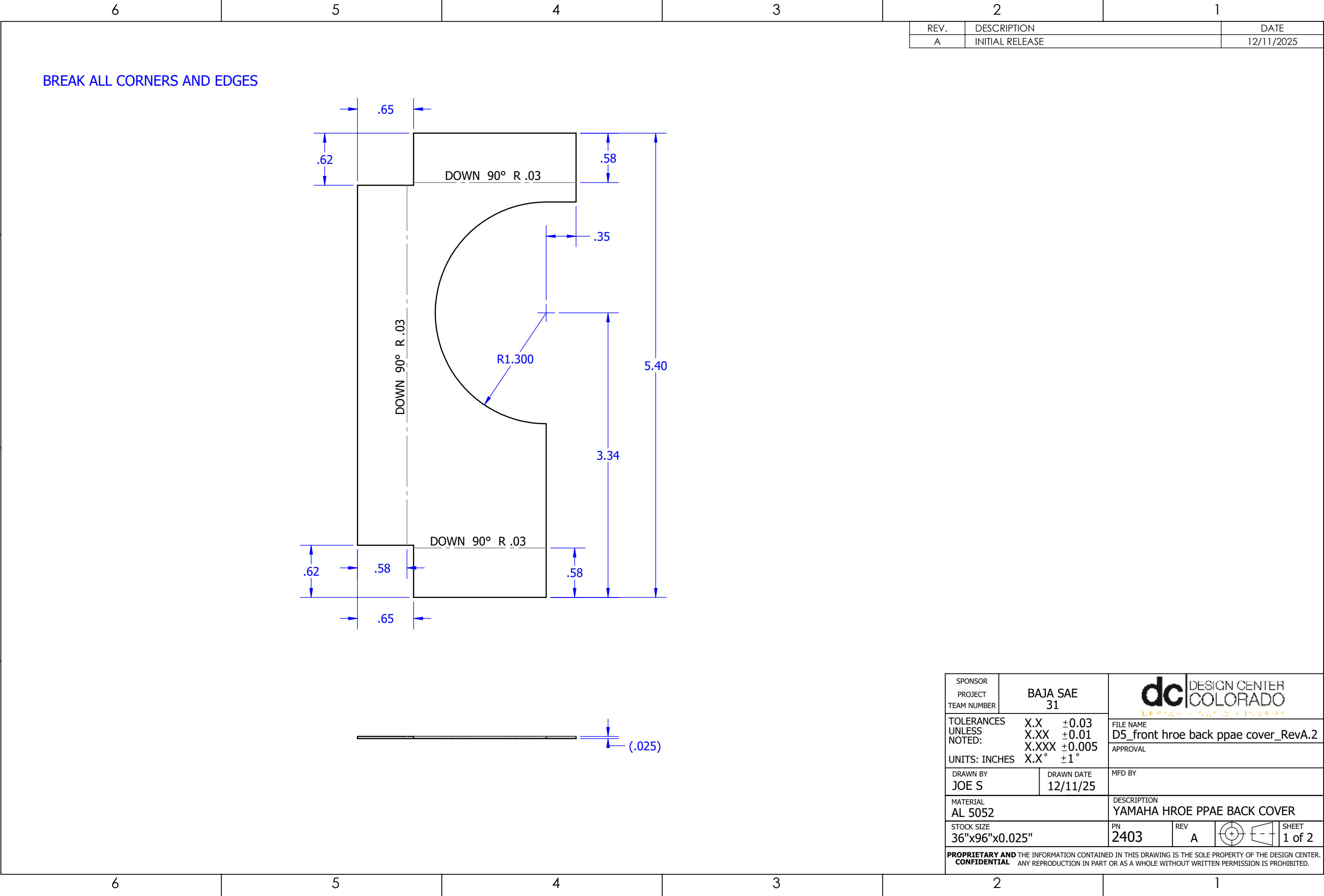


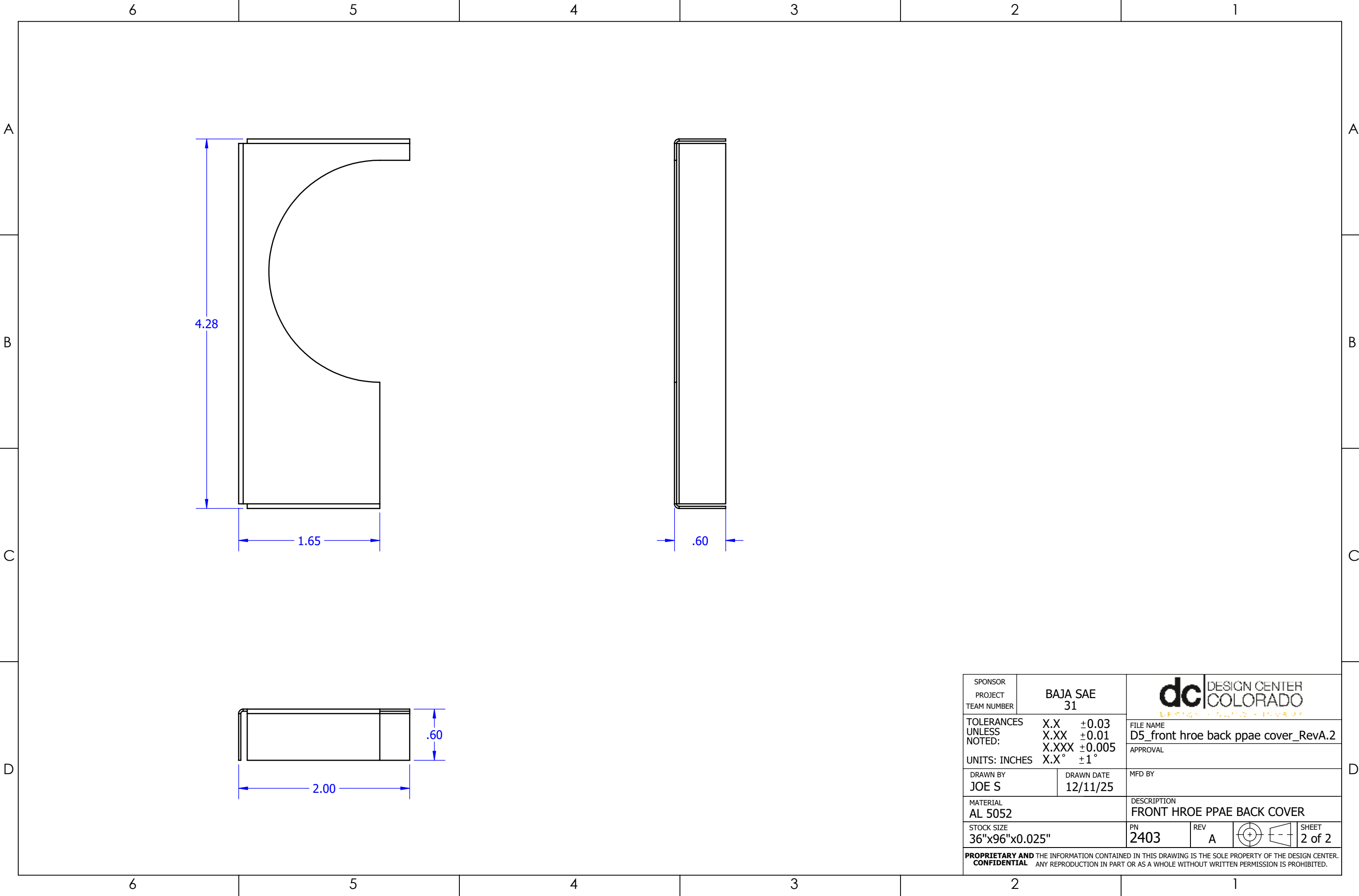


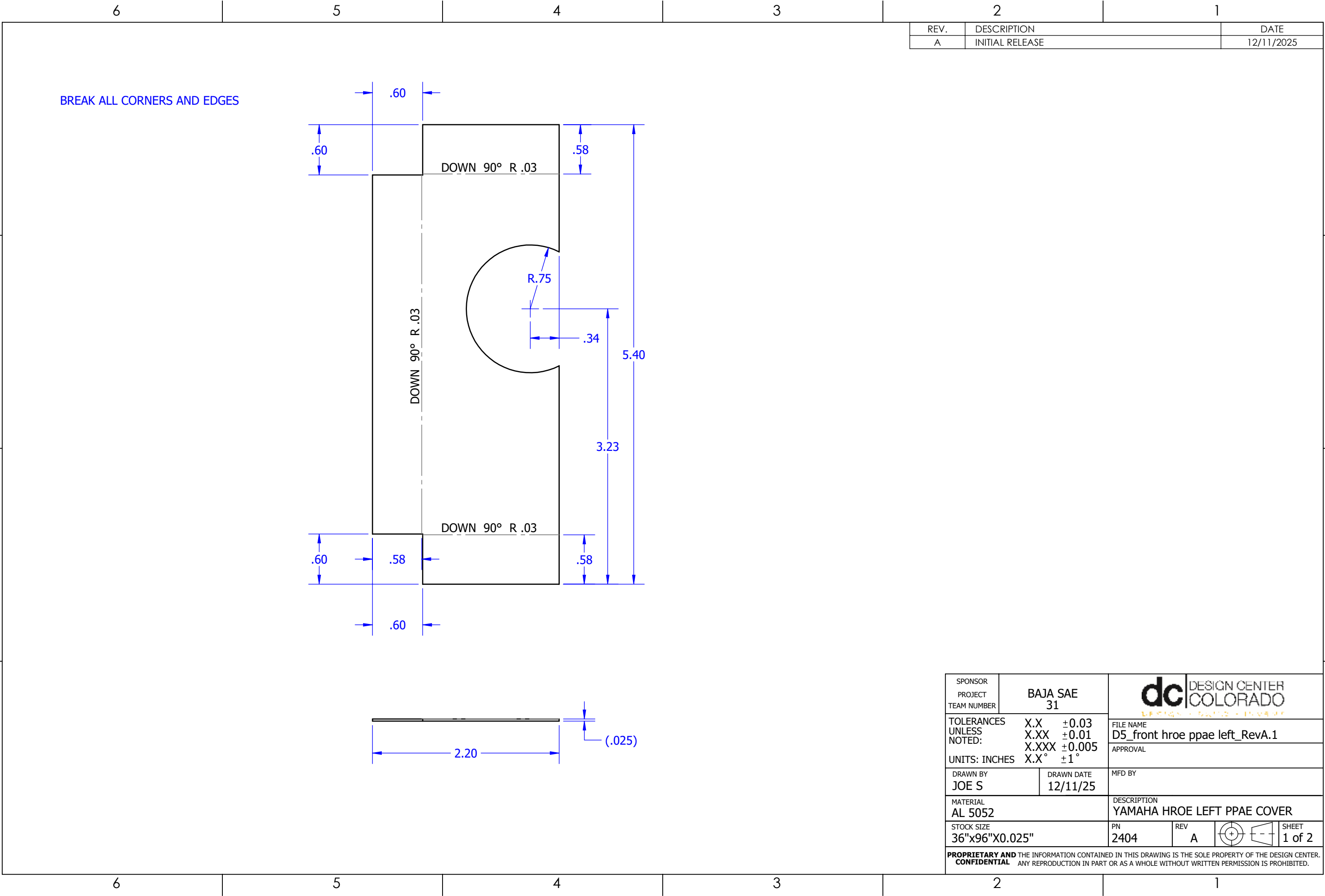


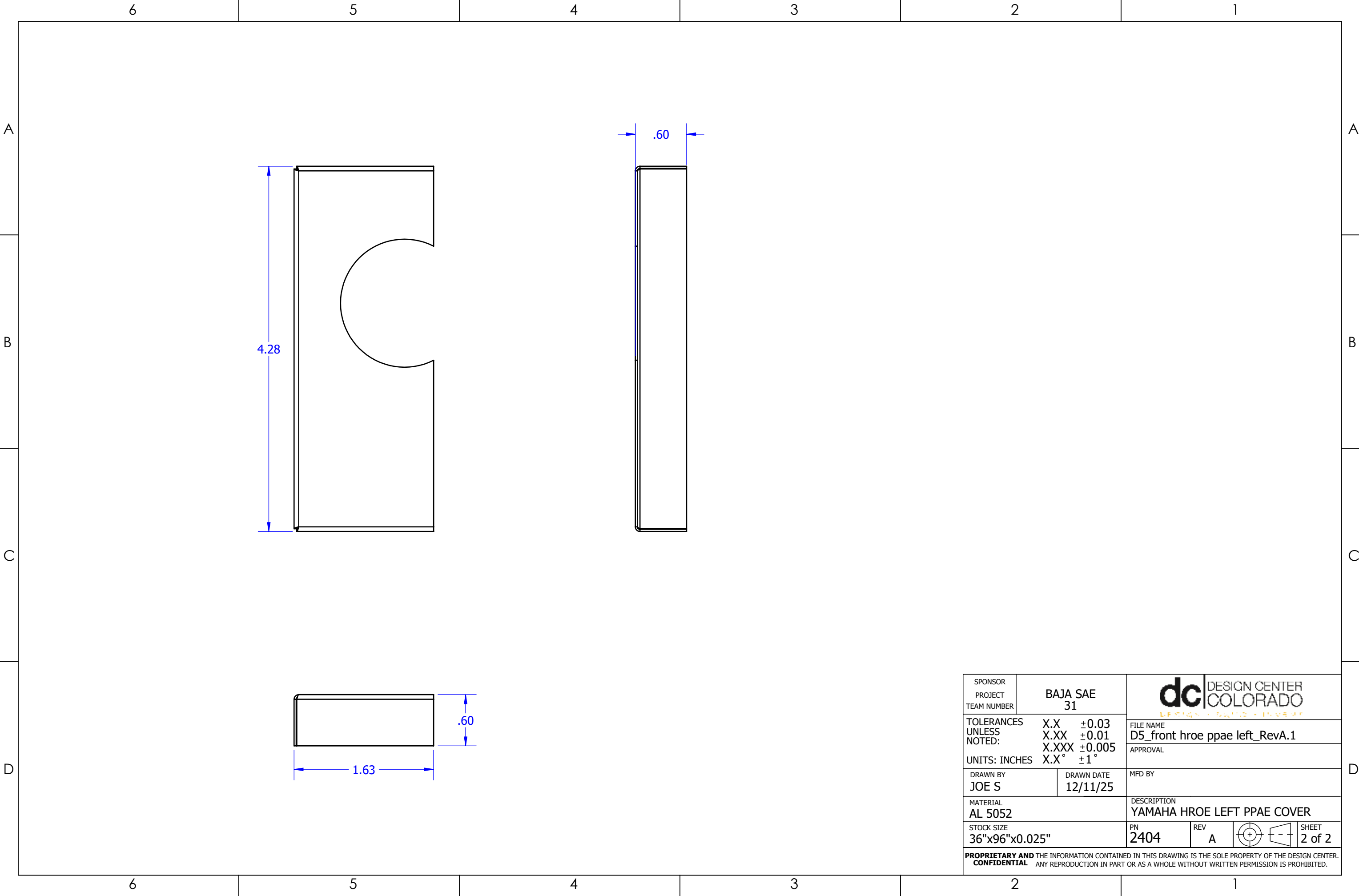


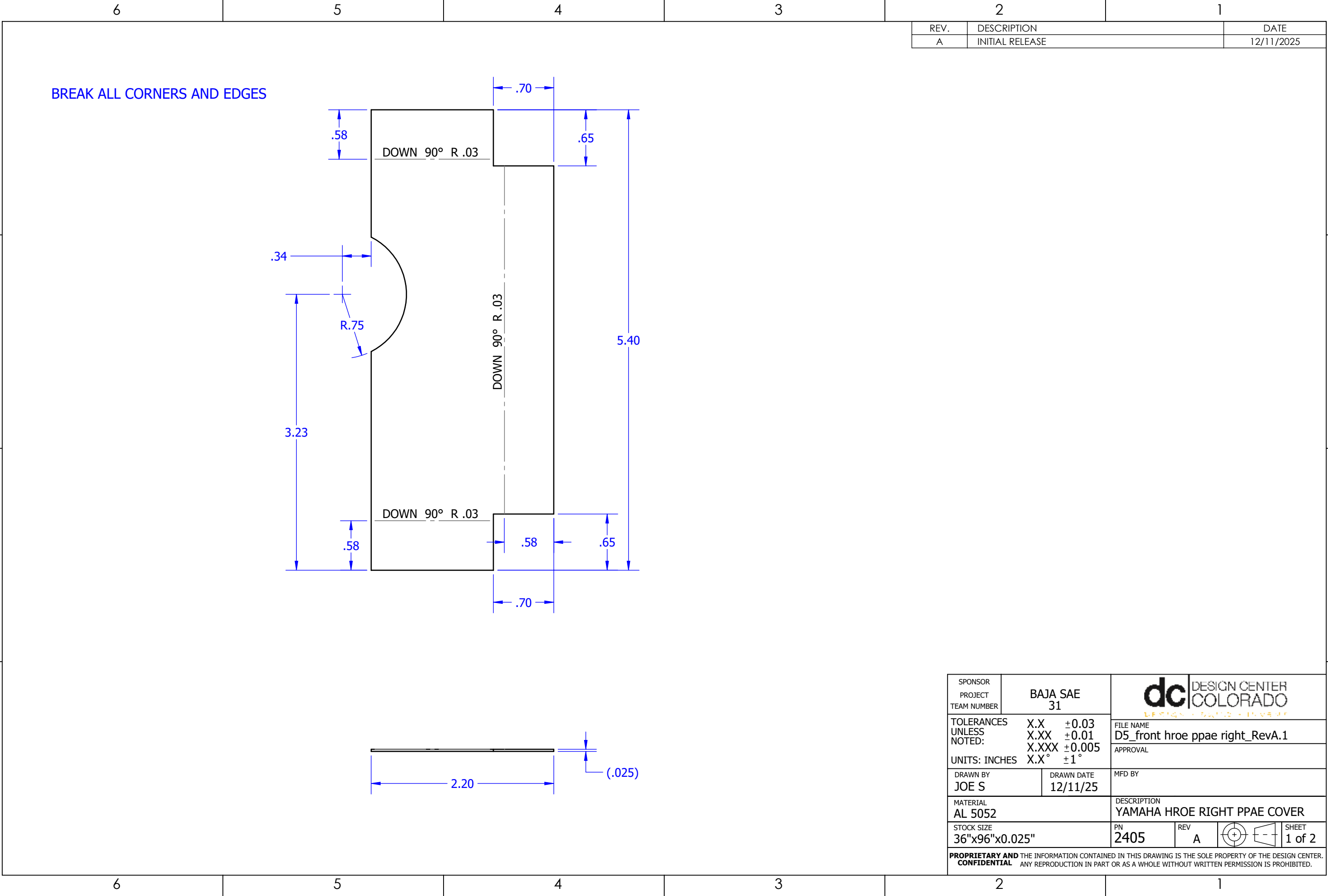






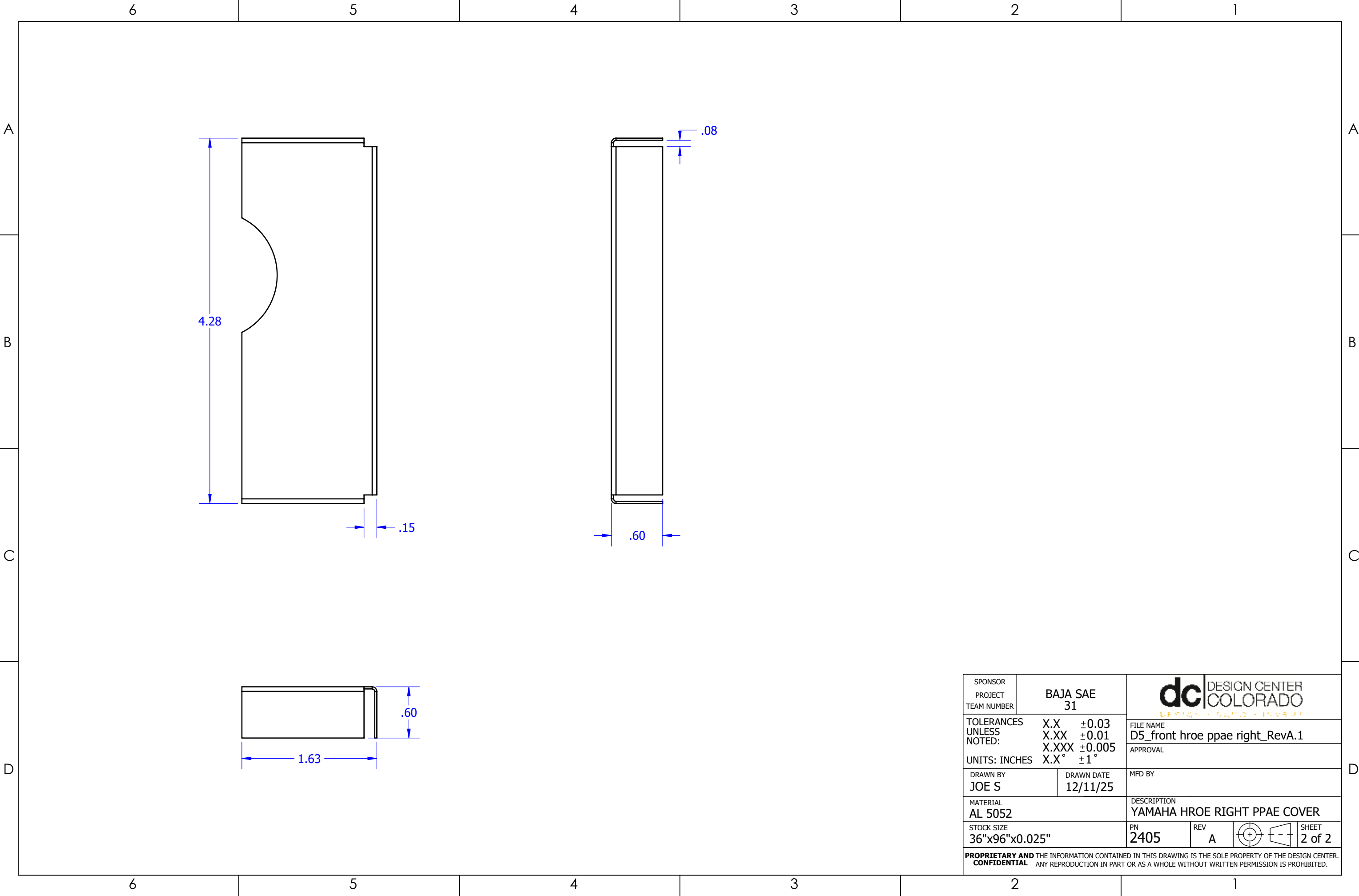


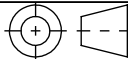


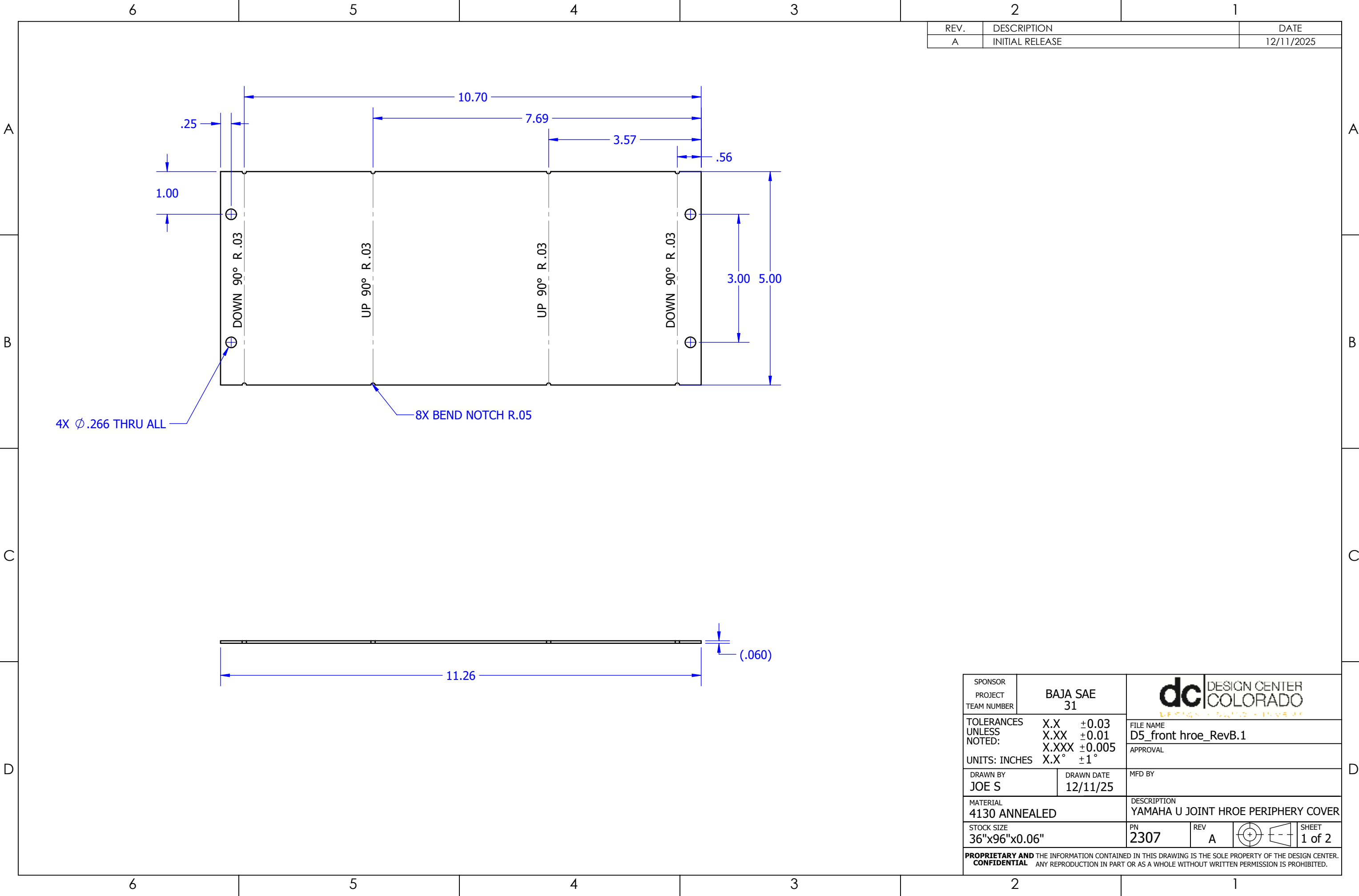


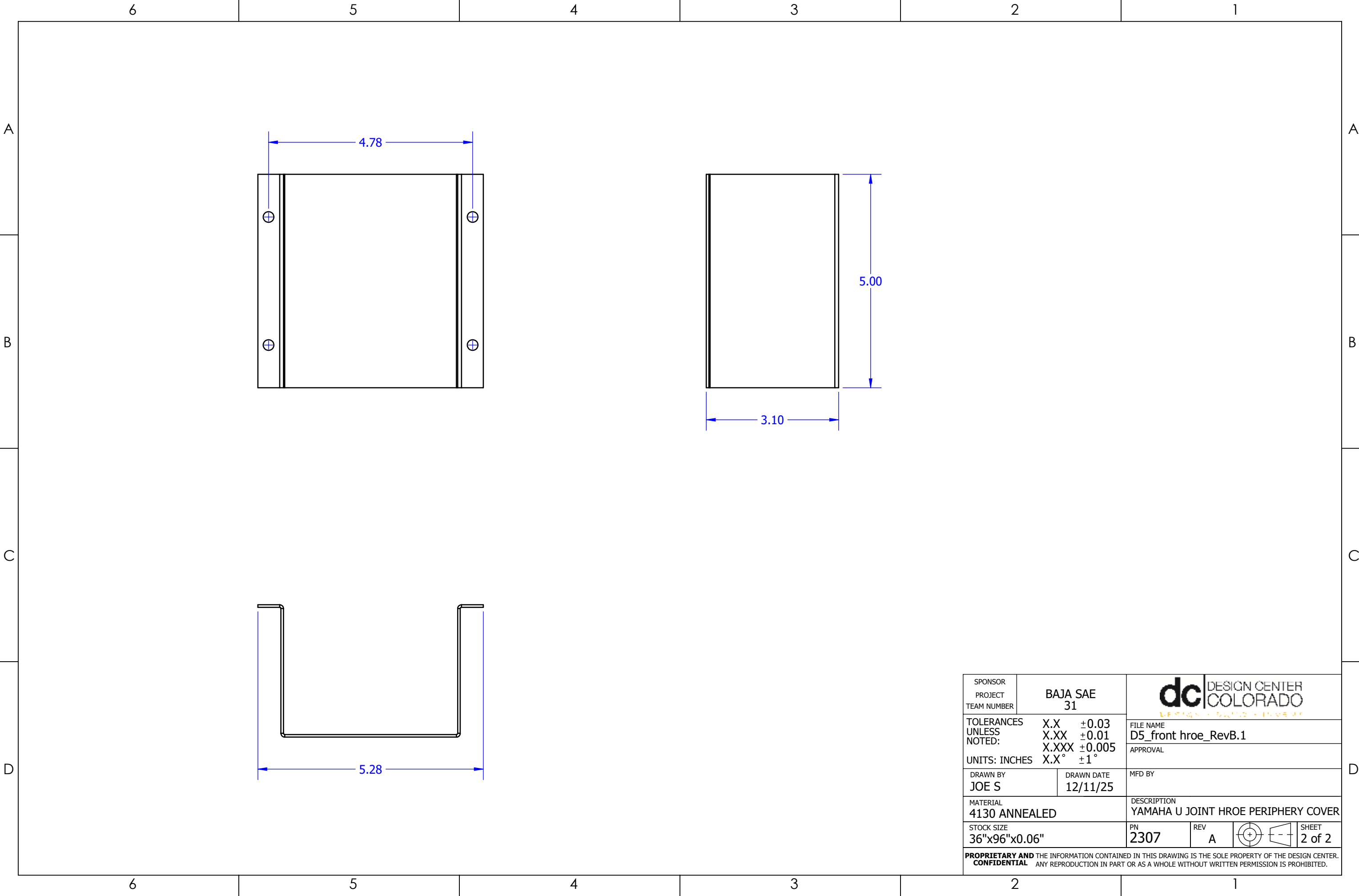
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

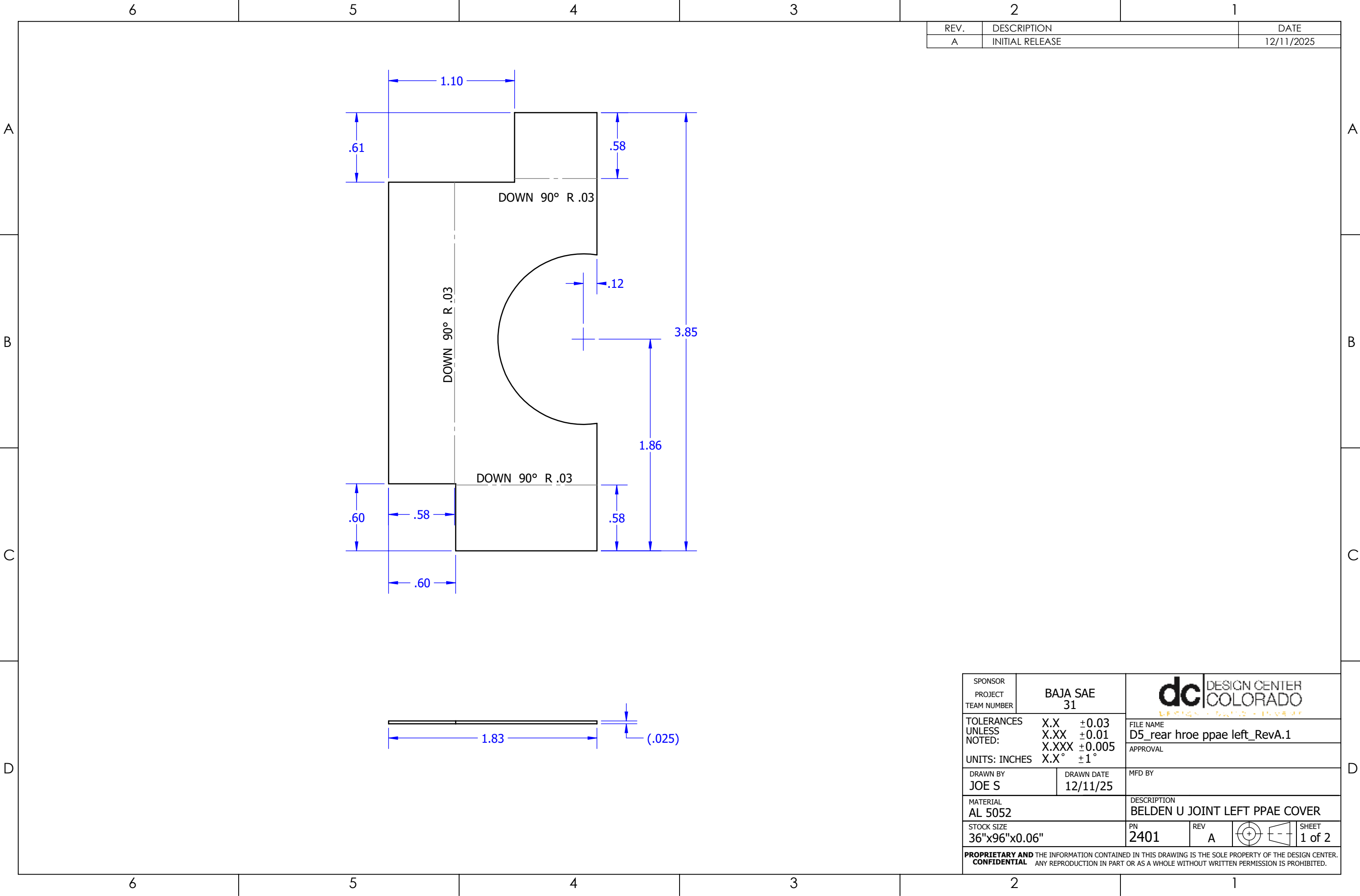
SPONSOR		dc DESIGN CENTER COLORADO LEARN • BUILD • INSPIRE	
PROJECT			
TEAM NUMBER			
BAJA SAE		FILE NAME	
31		D5_front hroe ppae right_RevA.1	
TOLERANCES		APPROVAL	
UNLESS	X.X ±0.03		
NOTED:	X.XX ±0.01		
	X.XXX ±0.005		
UNITS: INCHES	X.X° ±1°		
DRAWN BY		MFD BY	
JOE S			
DRAWN DATE			
12/11/25			
MATERIAL		DESCRIPTION	
AL 5052		YAMAHA HROE RIGHT PPAE COVER	
STOCK SIZE		PN	REV
36"x96"x0.025"		2405	A
			
		SHEET	
		1 of 2	
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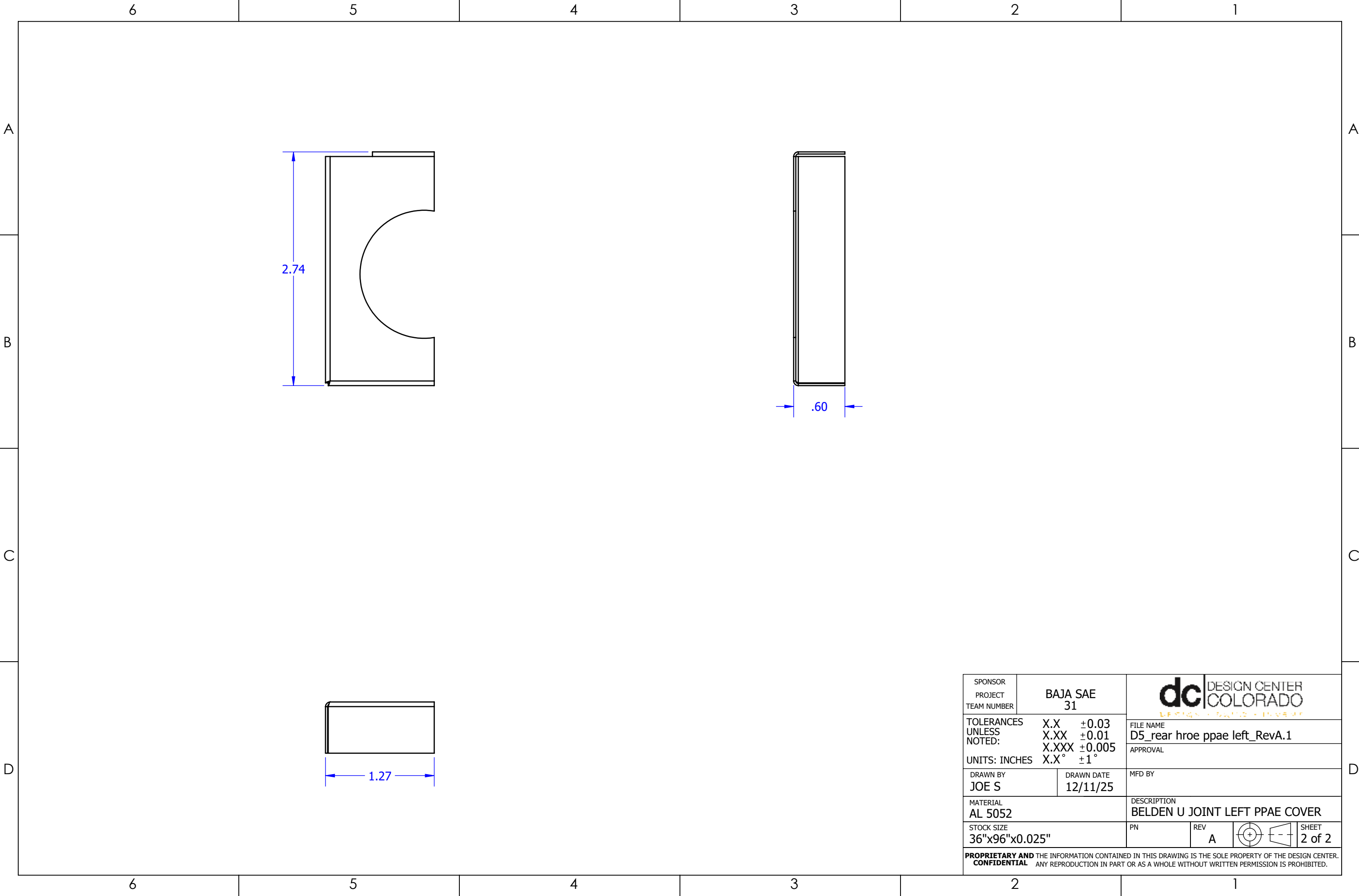


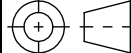
SPONSOR		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT		
PROJECT						
TEAM NUMBER						
TOLERANCES UNLESS NOTED:		X.X ±0.03		FILE NAME		
		X.XX ±0.01		D5_front hroe ppae right_RevA.1		
		X.XXX ±0.005		APPROVAL		
UNITS: INCHES		X.X° ±1°				
DRAWN BY		DRAWN DATE		MFD BY		
JOE S		12/11/25				
MATERIAL				DESCRIPTION		
AL 5052				YAMAHA HROE RIGHT PPAE COVER		
STOCK SIZE				PN	REV	
36"x96"x0.025"				2405	A	
				2 of 2		
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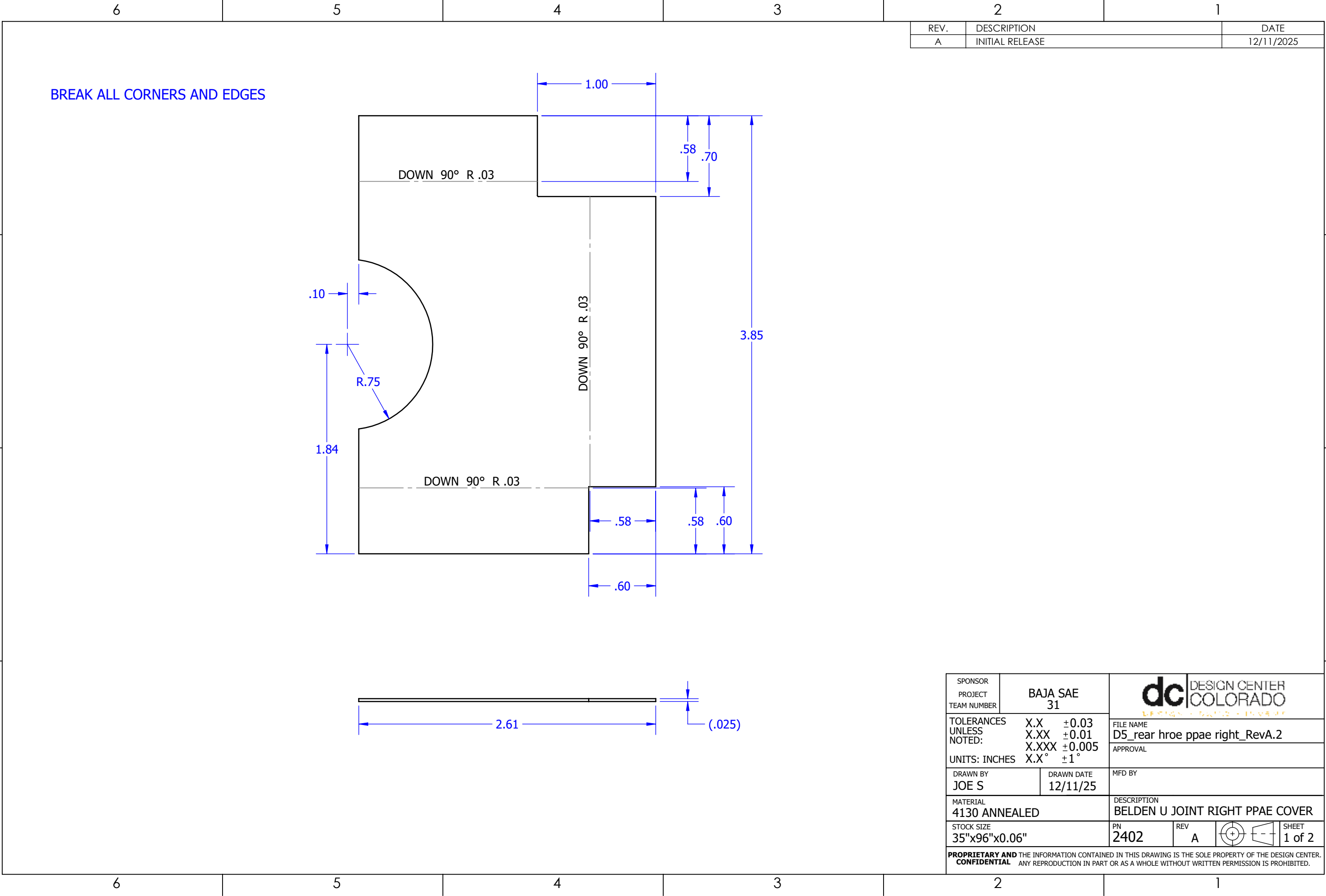






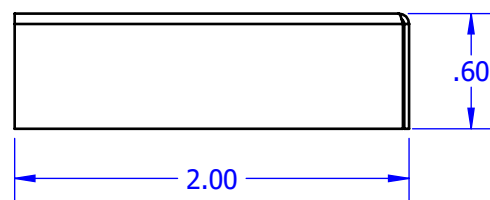
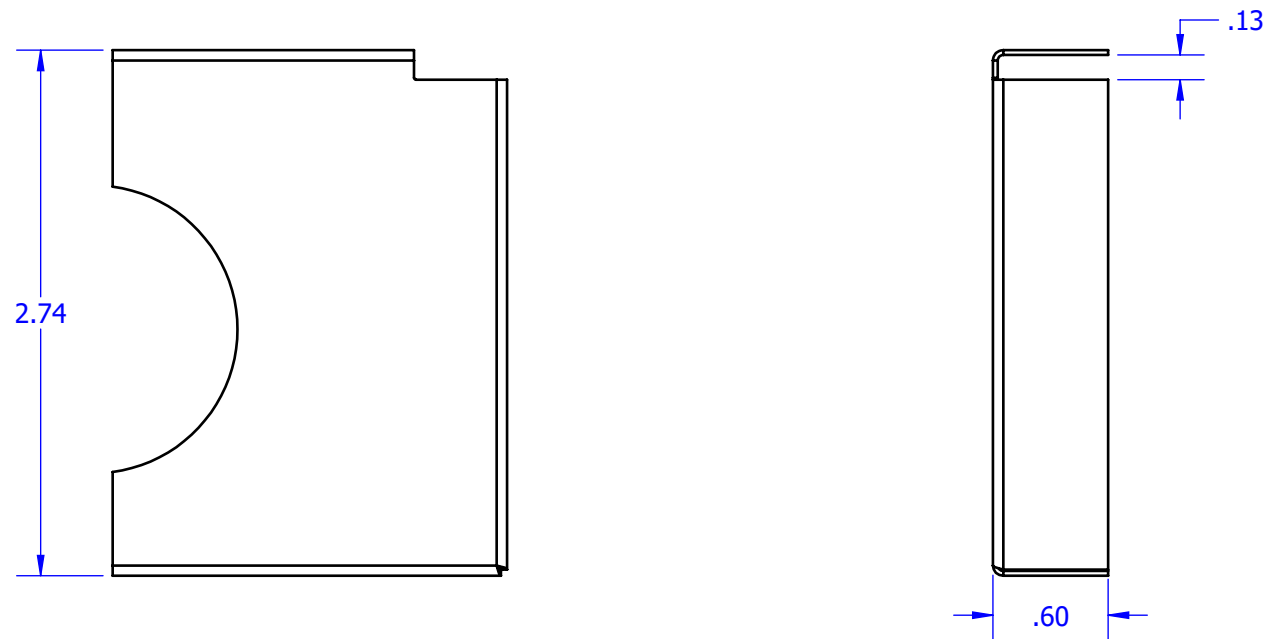


SPONSOR		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
PROJECT					
TEAM NUMBER					
TOLERANCES UNLESS NOTED:		FILE NAME			
X.X ±0.03		D5_rear hroe ppae left_RevA.1			
X.XX ±0.01		APPROVAL			
X.XXX ±0.005					
UNITS: INCHES		X.X° ±1°			
DRAWN BY		DRAWN DATE		MFD BY	
JOE S		12/11/25			
MATERIAL		DESCRIPTION			
AL 5052		BELDEN U JOINT LEFT PPAE COVER			
STOCK SIZE		PN	REV		SHEET
36"x96"x0.025"			A		2 of 2
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE DESIGN CENTER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.					

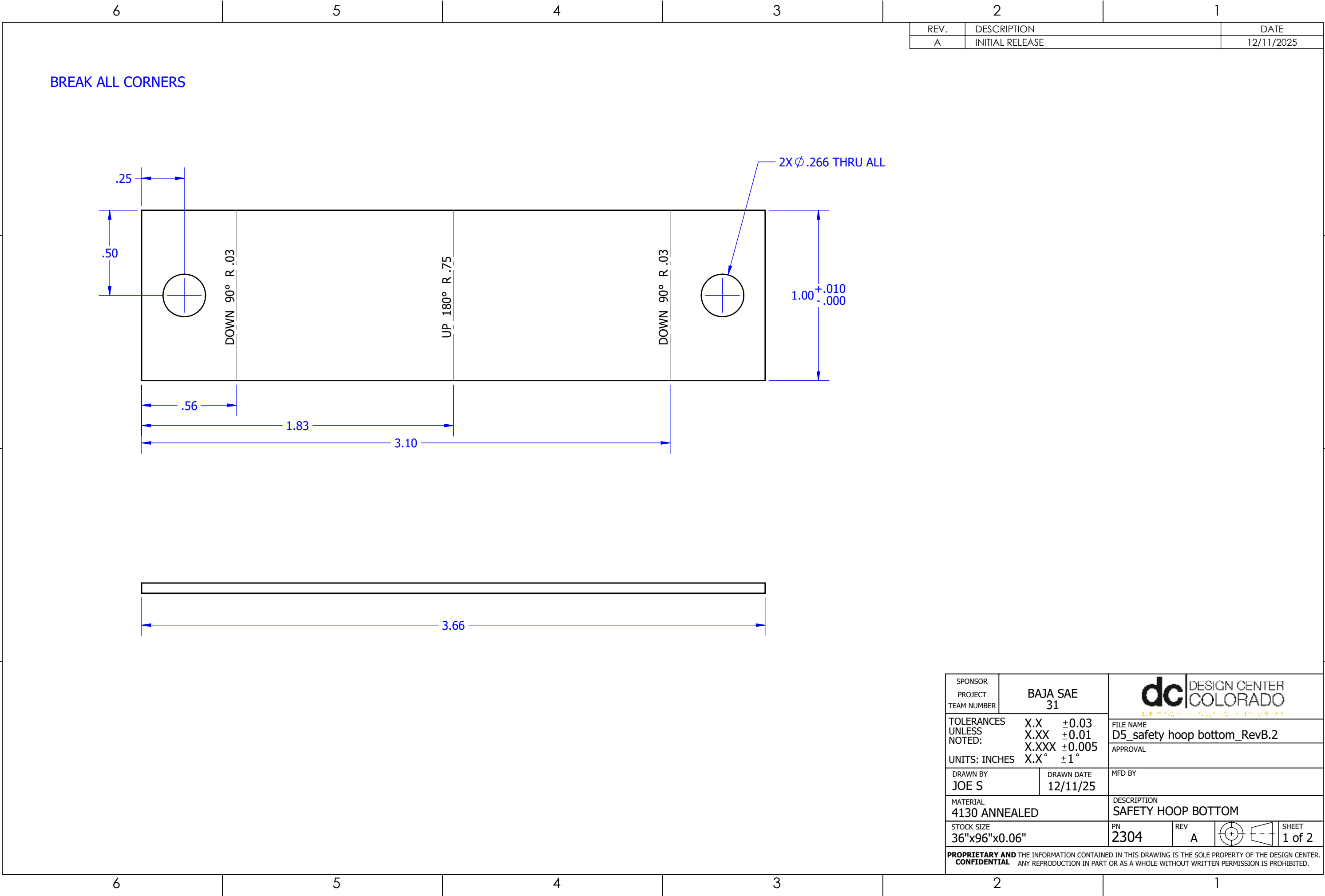


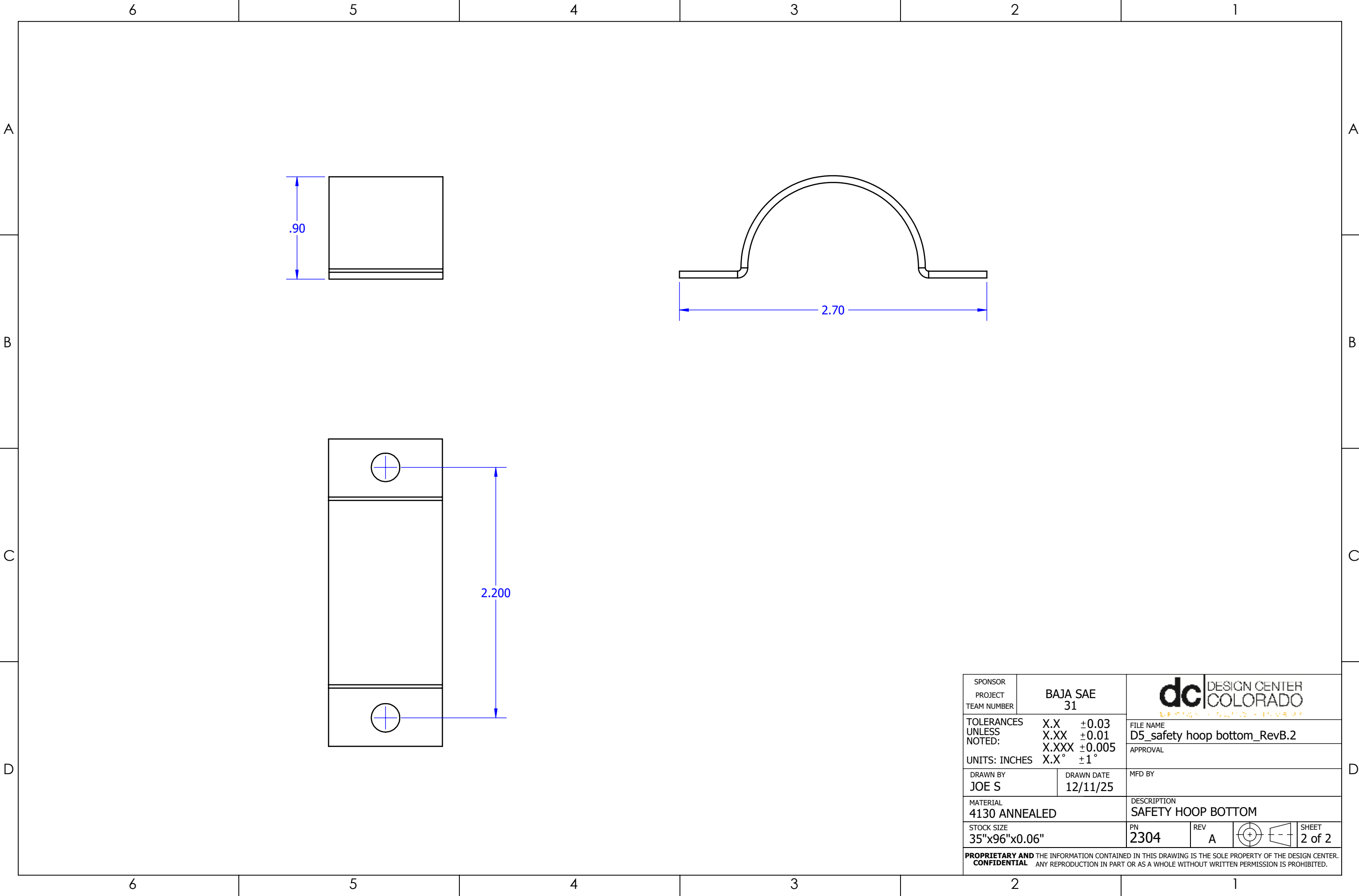
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

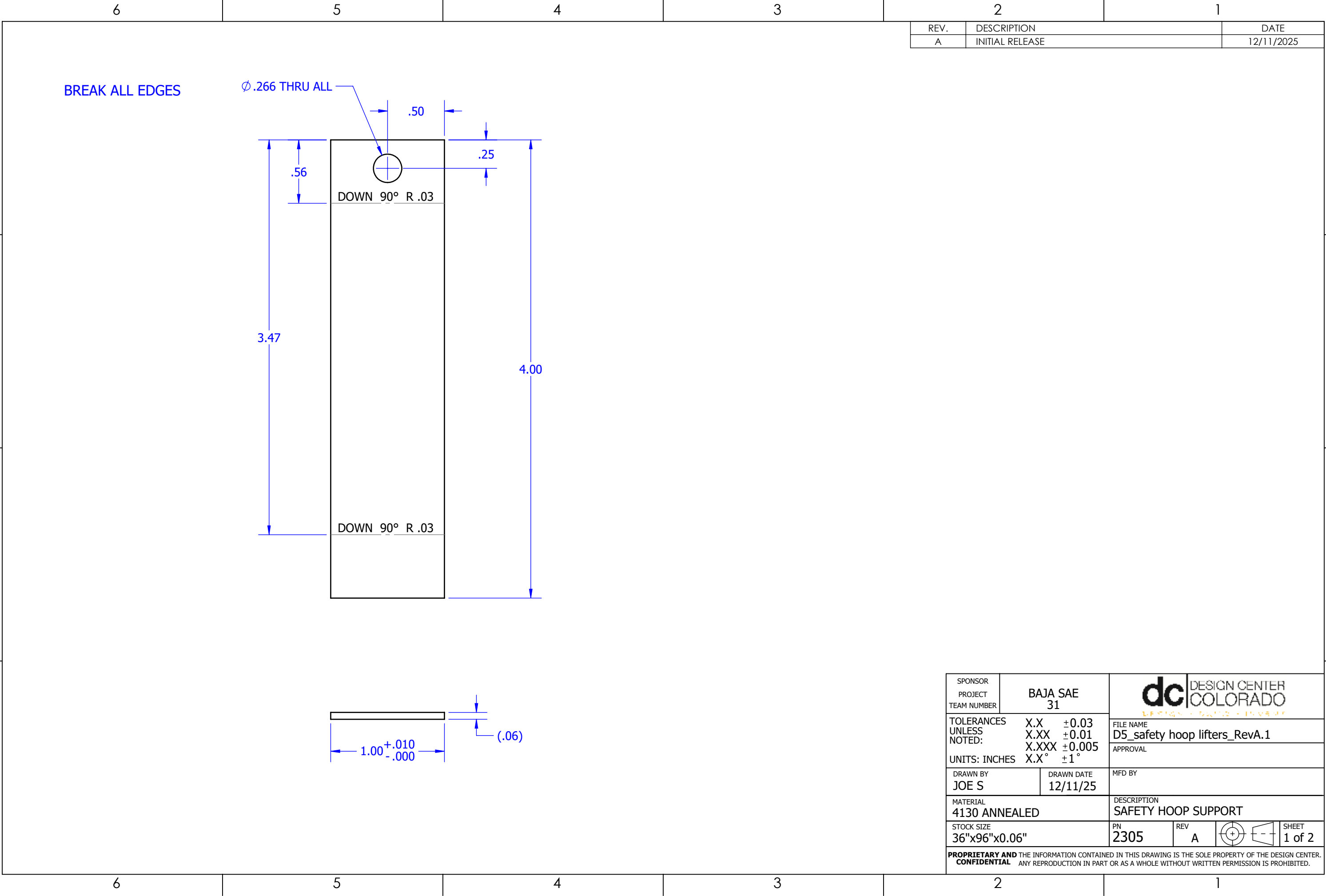
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATION • INVENT	
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 X.X° ±1°		FILE NAME D5_rear hroe ppae right_RevA.2	
				APPROVAL	
DRAWN BY JOE S		DRAWN DATE 12/11/25		MFD BY	
MATERIAL 4130 ANNEALED				DESCRIPTION BELDEN U JOINT RIGHT PPAE COVER	
STOCK SIZE 35"x96"x0.06"				PN 2402	REV A
					SHEET 1 of 2
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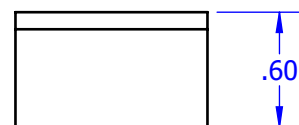
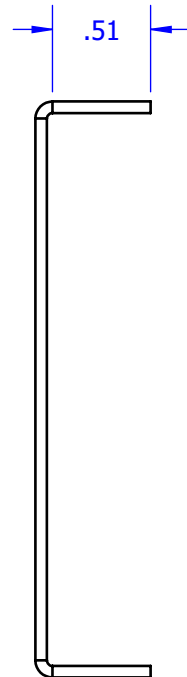
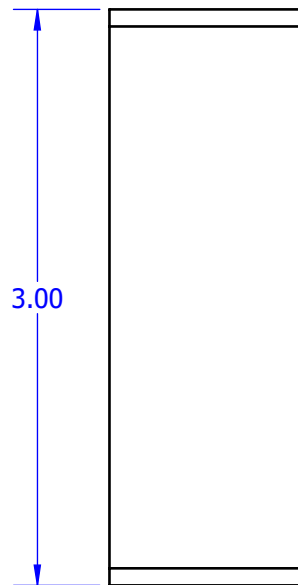


SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31			
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 X.X° ±1°		FILE NAME D5_rear hroe ppae right_RevA.2	
				APPROVAL	
DRAWN BY JOE S		DRAWN DATE 12/11/25		MFD BY	
MATERIAL AL 5052		DESCRIPTION BELDEN U JOINT RIGHT PPAE COVER			
STOCK SIZE 26"x96"x0.025"		PN 2402	REV A		
				SHEET 2 of 2	
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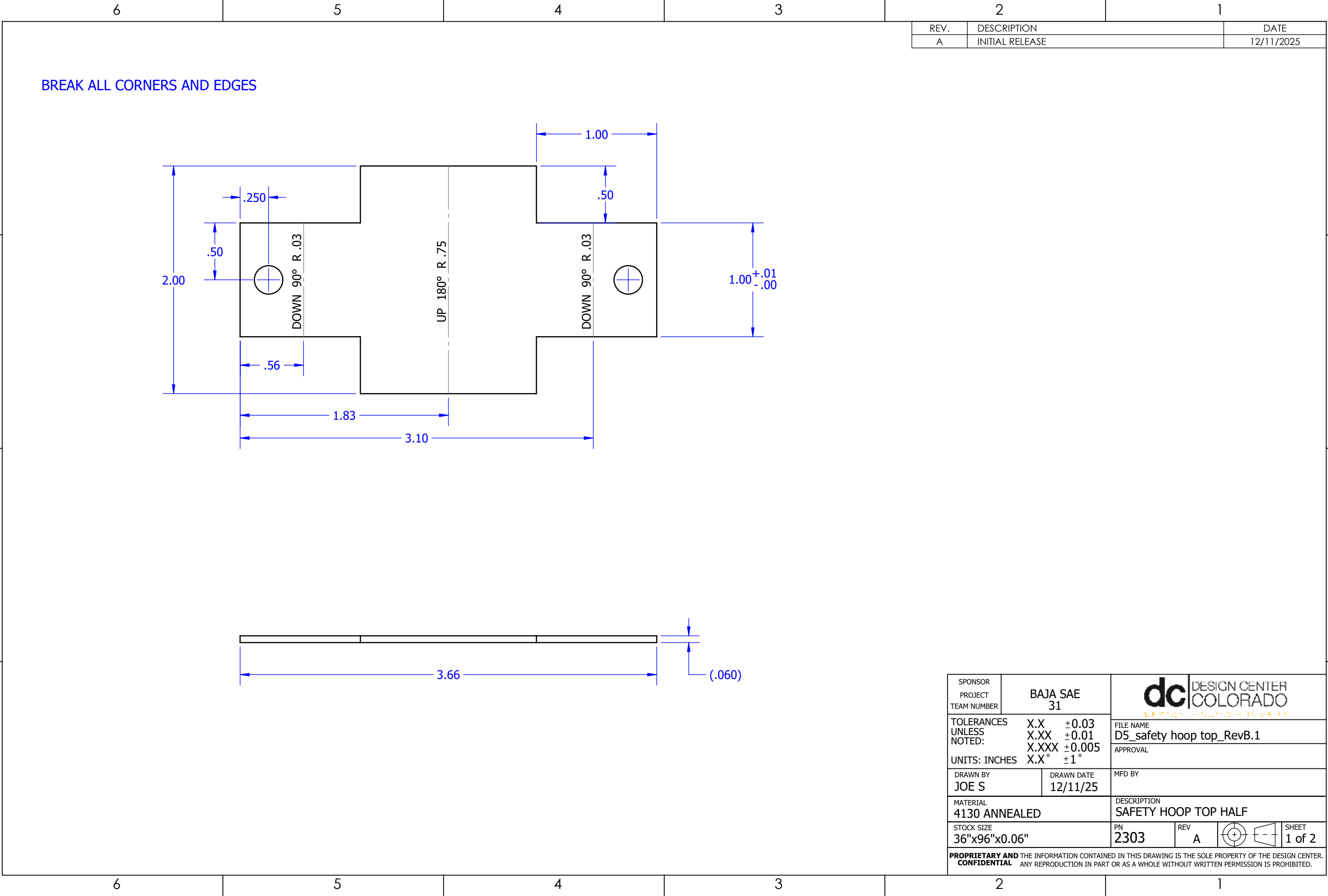


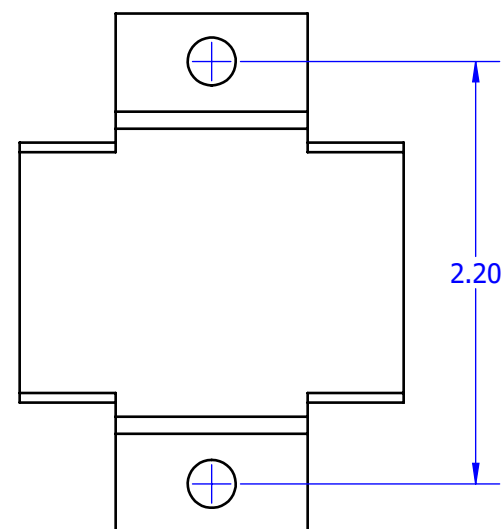
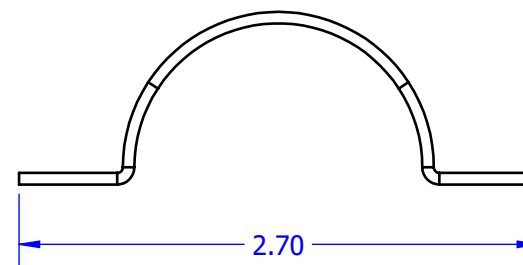
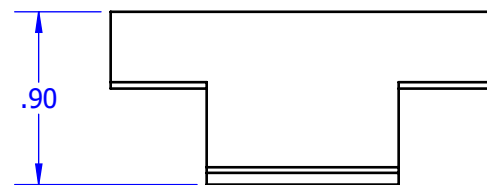




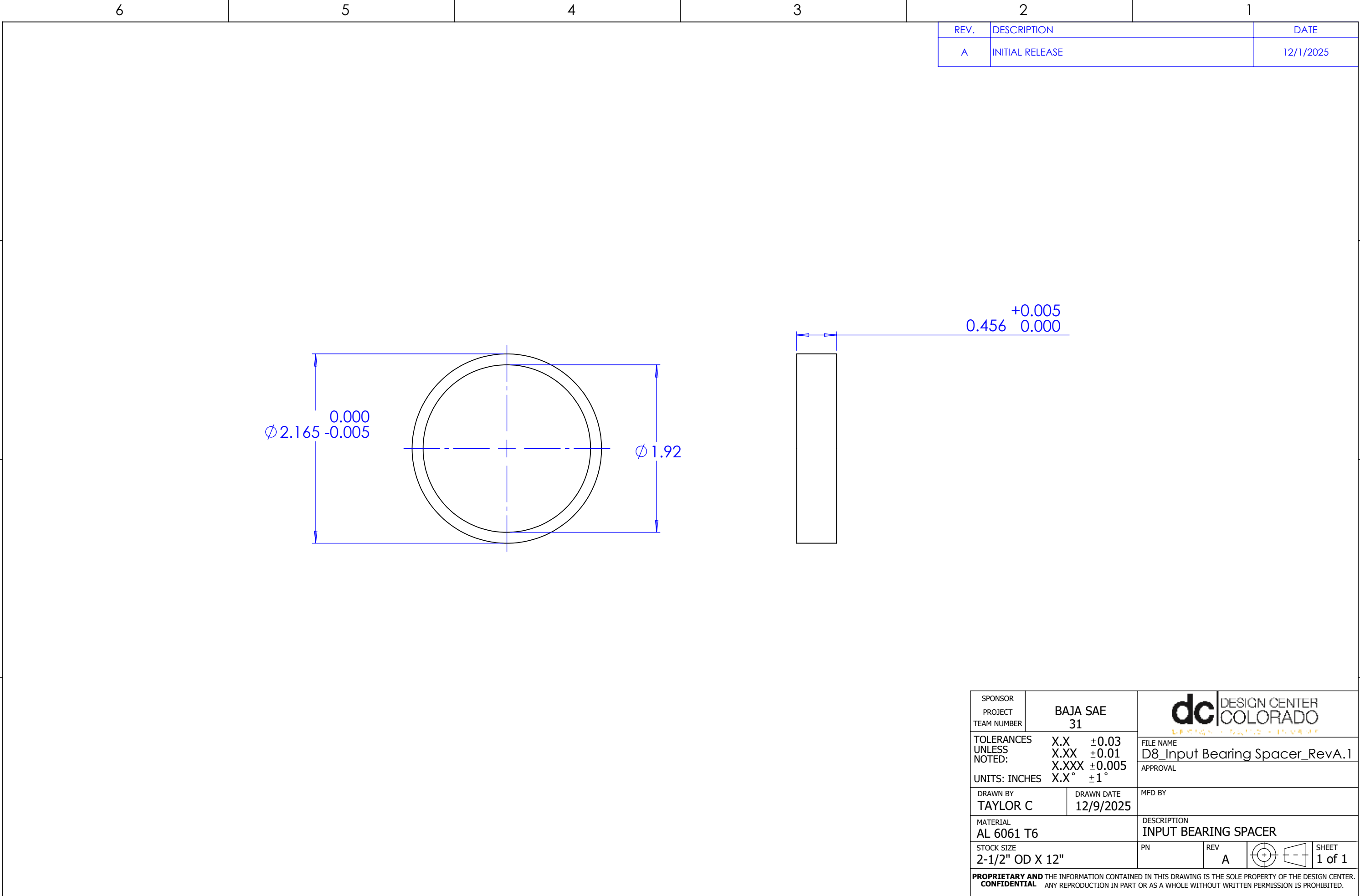


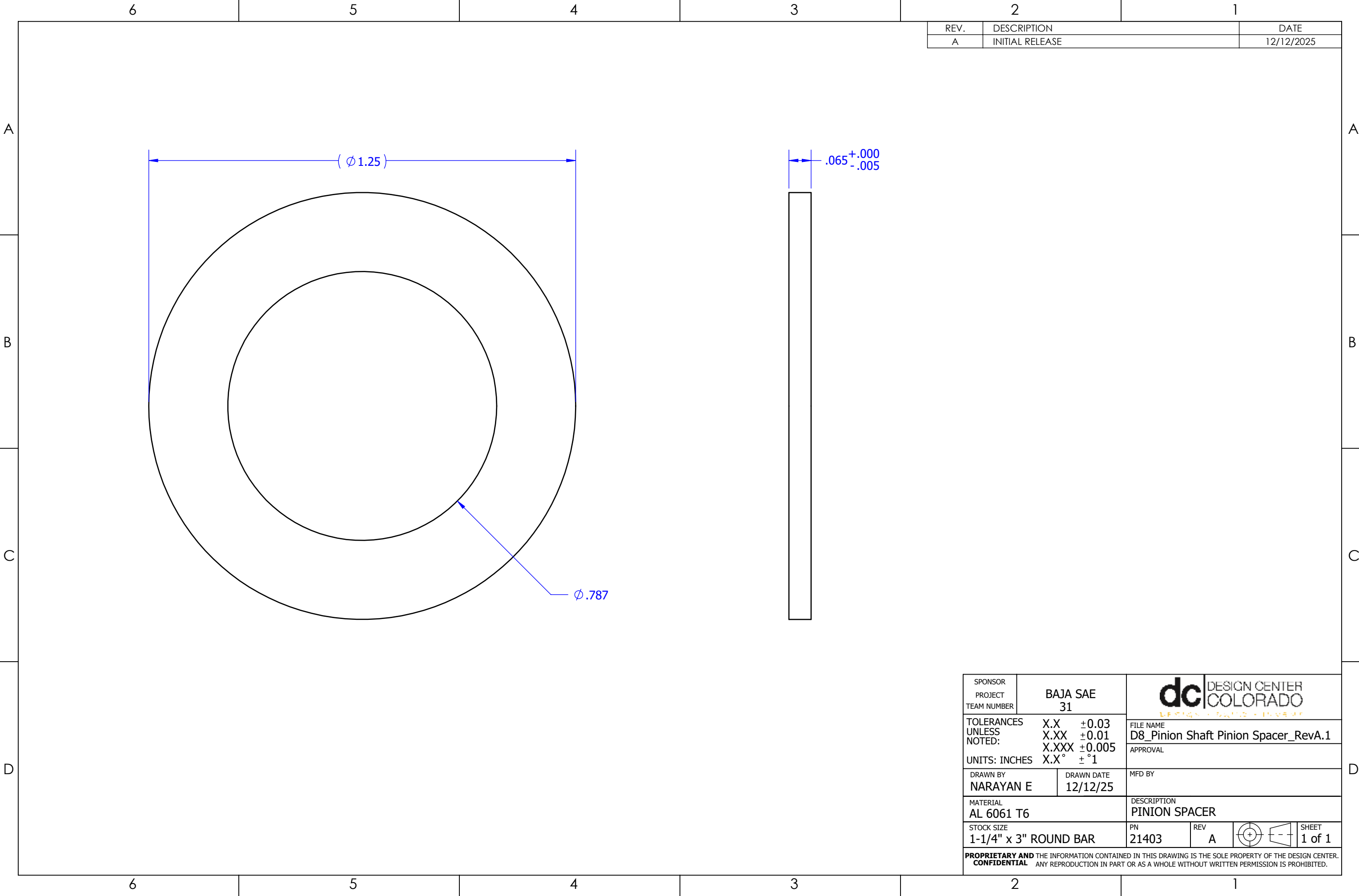
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31			
TOLERANCES UNLESS NOTED:		X.X ±0.03		FILE NAME	
		X.XX ±0.01		D5_safety hoop lifters_RevA.1	
UNITS: INCHES		X.XXX ±0.005		APPROVAL	
		X.X° ±1°			
DRAWN BY JOE S		DRAWN DATE 12/11/25		MFD BY	
MATERIAL 4130 ANNEALED				DESCRIPTION SAFETY HOOP SUPPORT	
STOCK SIZE 36"x96"x0.06"		PN 2305	REV A		SHEET 2 of 2
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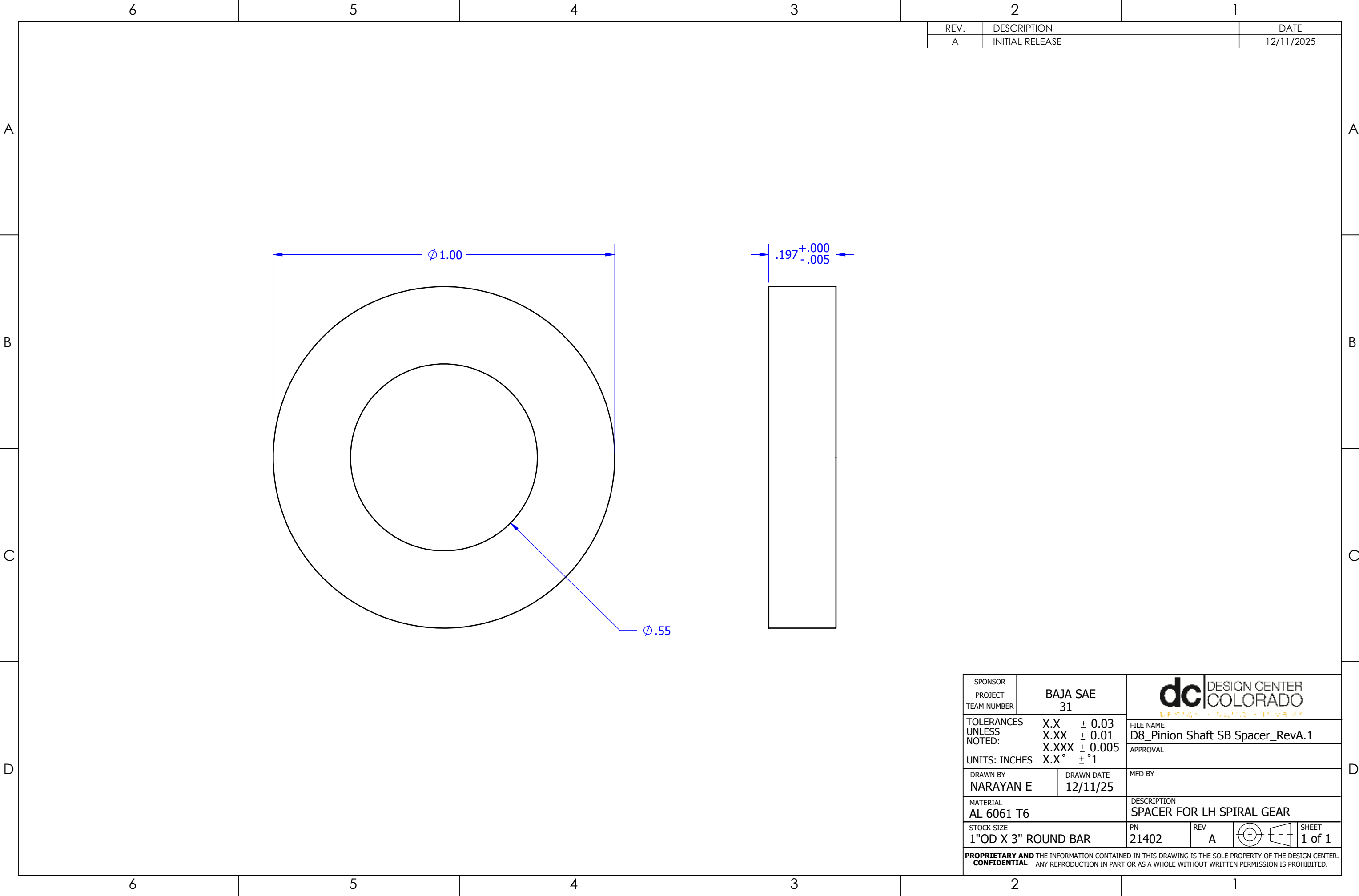


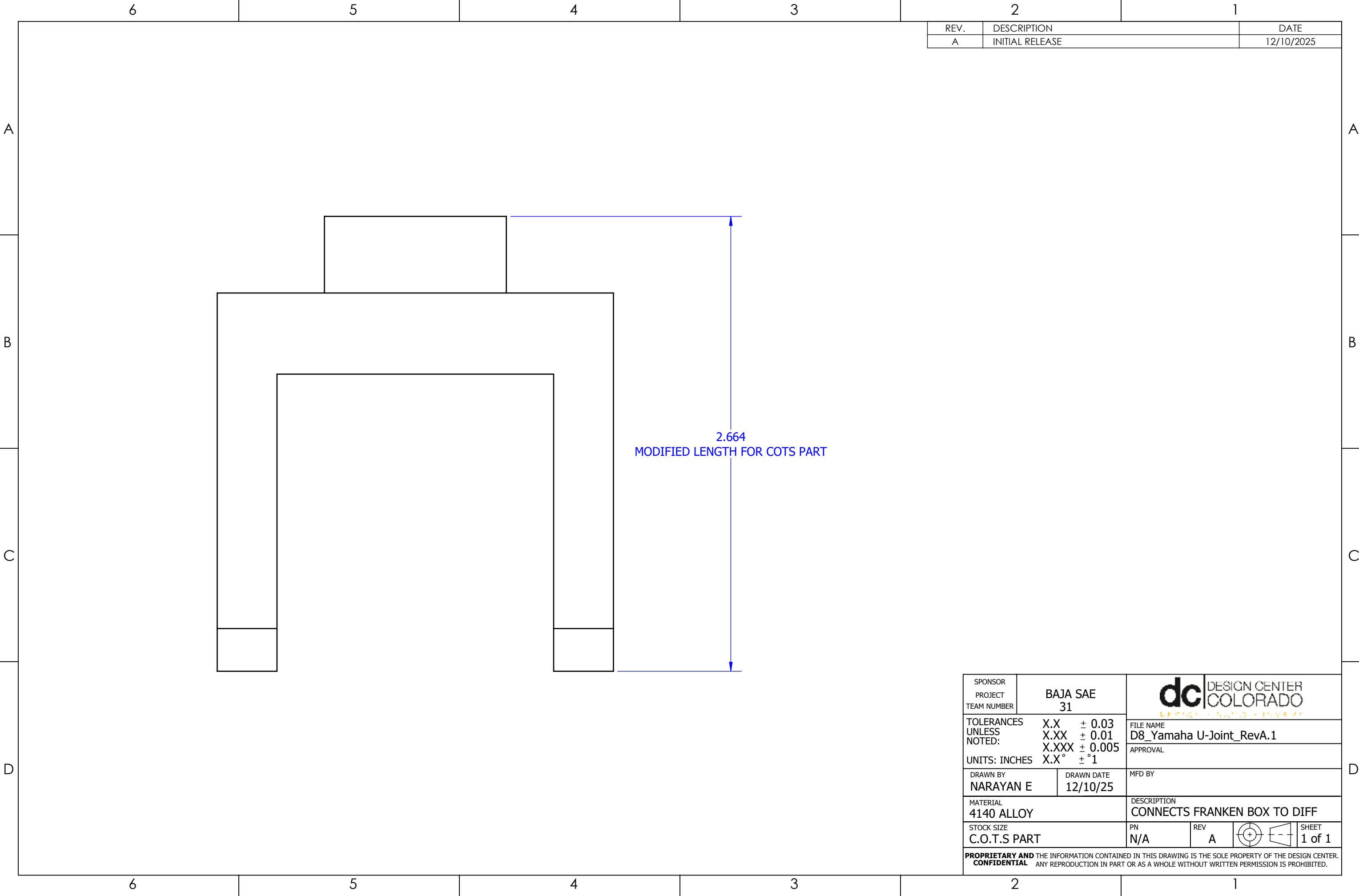


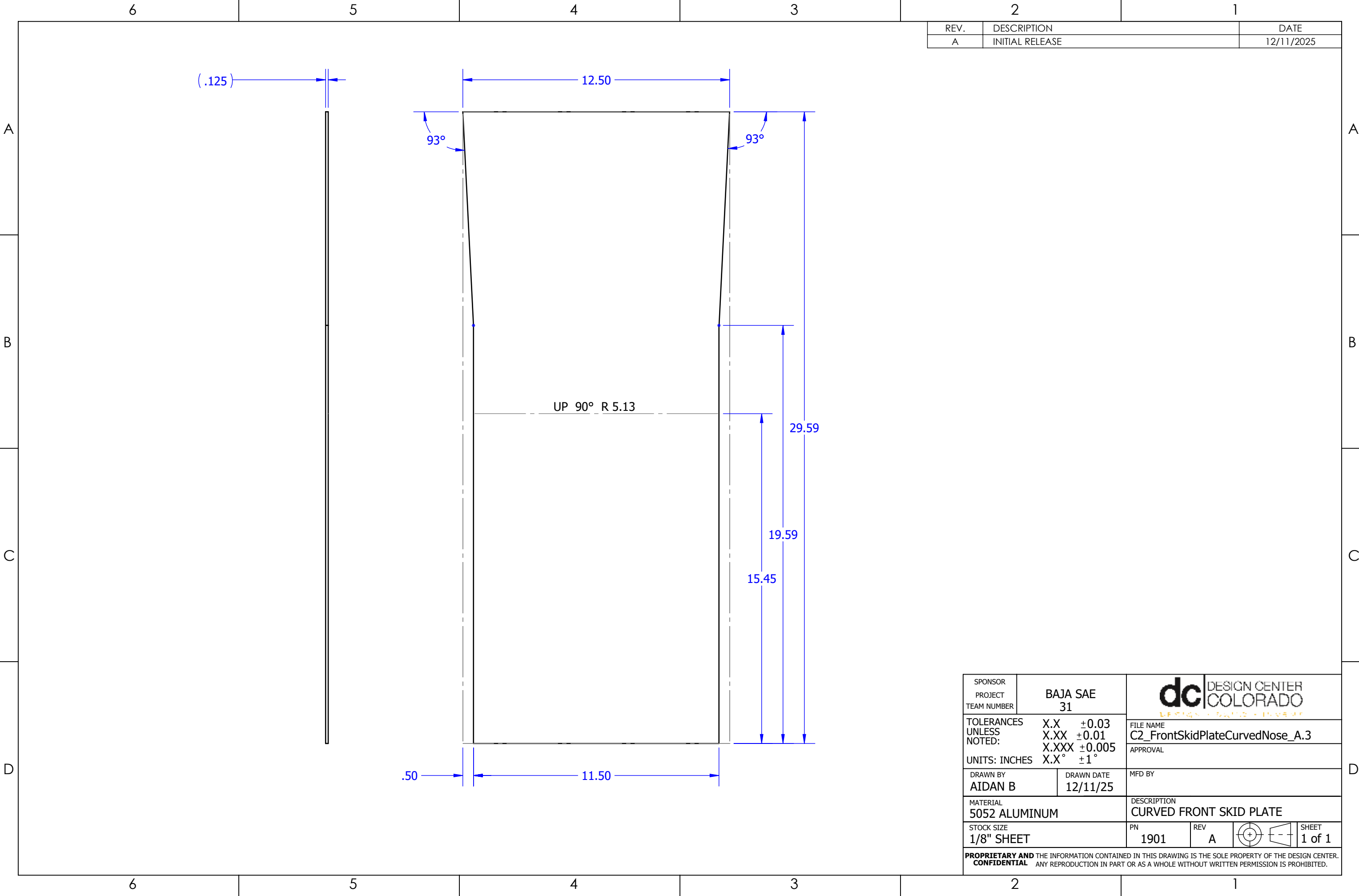
SPONSOR PROJECT TEAM NUMBER		BAJA SAE 31			
TOLERANCES UNLESS NOTED: UNITS: INCHES		X.X +0.03 X.XX +0.01 X.XXX +0.005 X.X° ± 1°		FILE NAME D5_safety hoop top_RevB.1	
				APPROVAL	
DRAWN BY JOE S		DRAWN DATE 12/11/25		MFD BY	
MATERIAL 4130 ANNEALED		DESCRIPTION SAFETY HOOP TOP HALF			
STOCK SIZE 36"x96"x0.06"		PN 2303	REV A	 	SHEET 2 of 2
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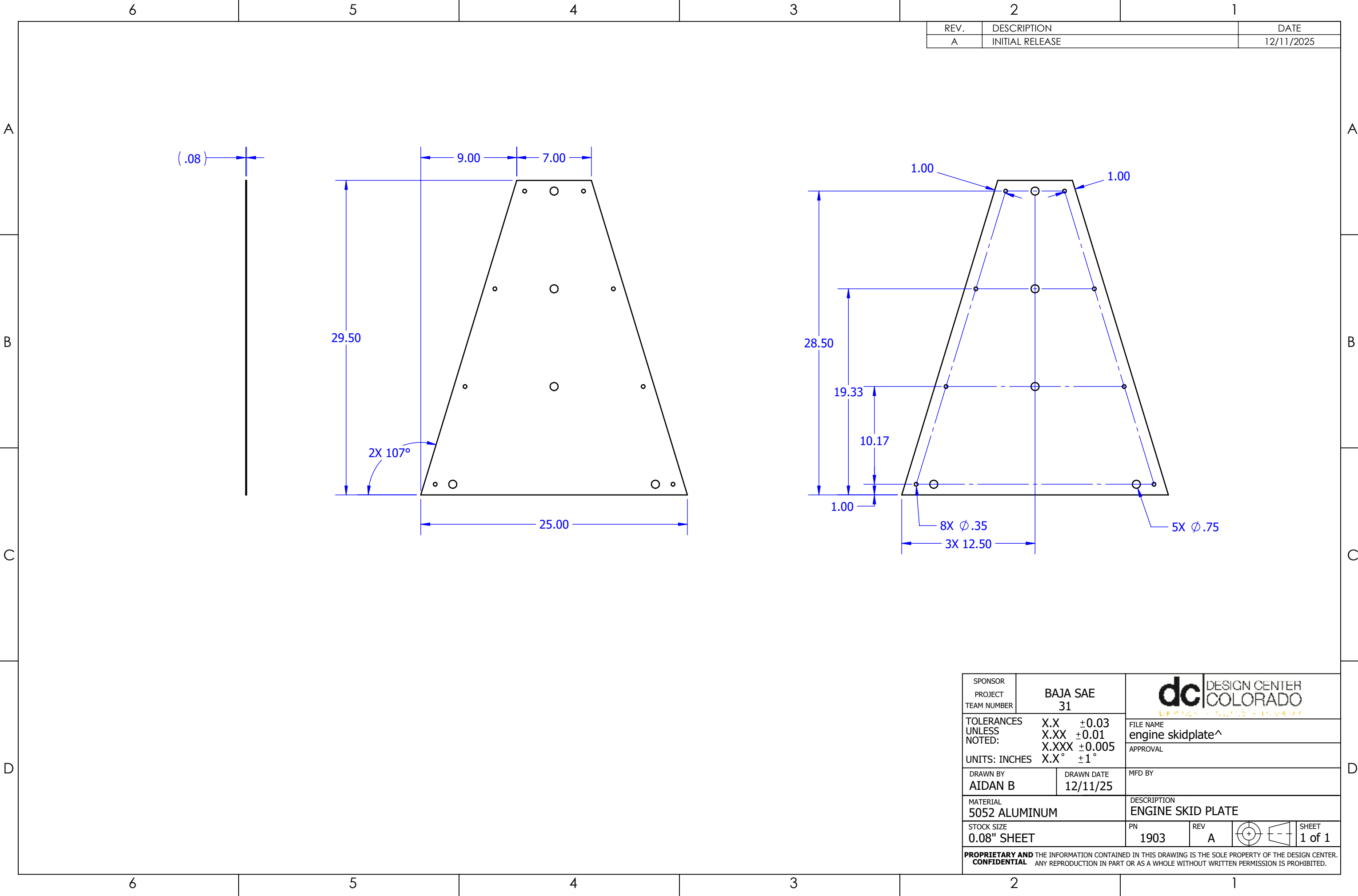


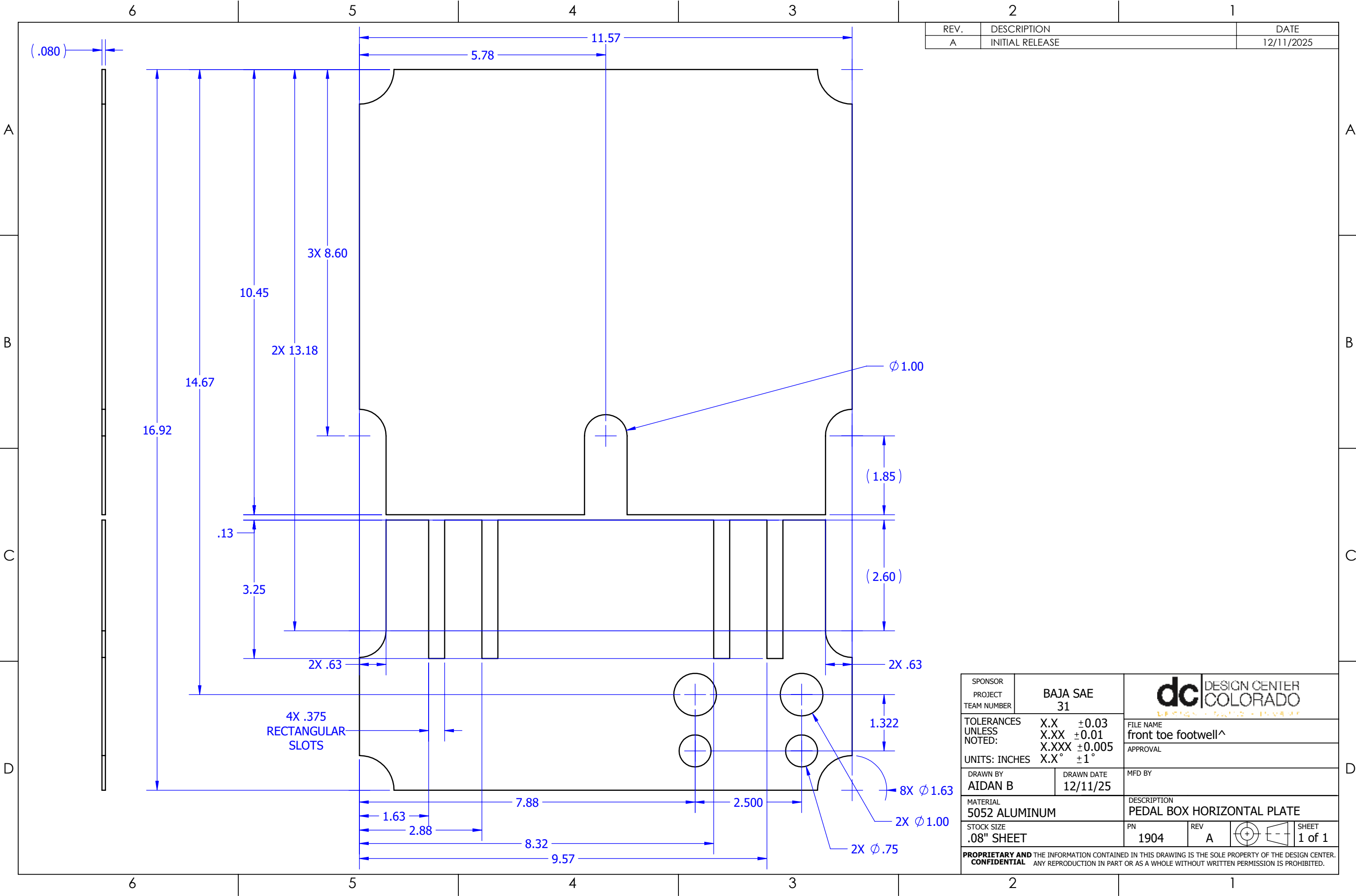






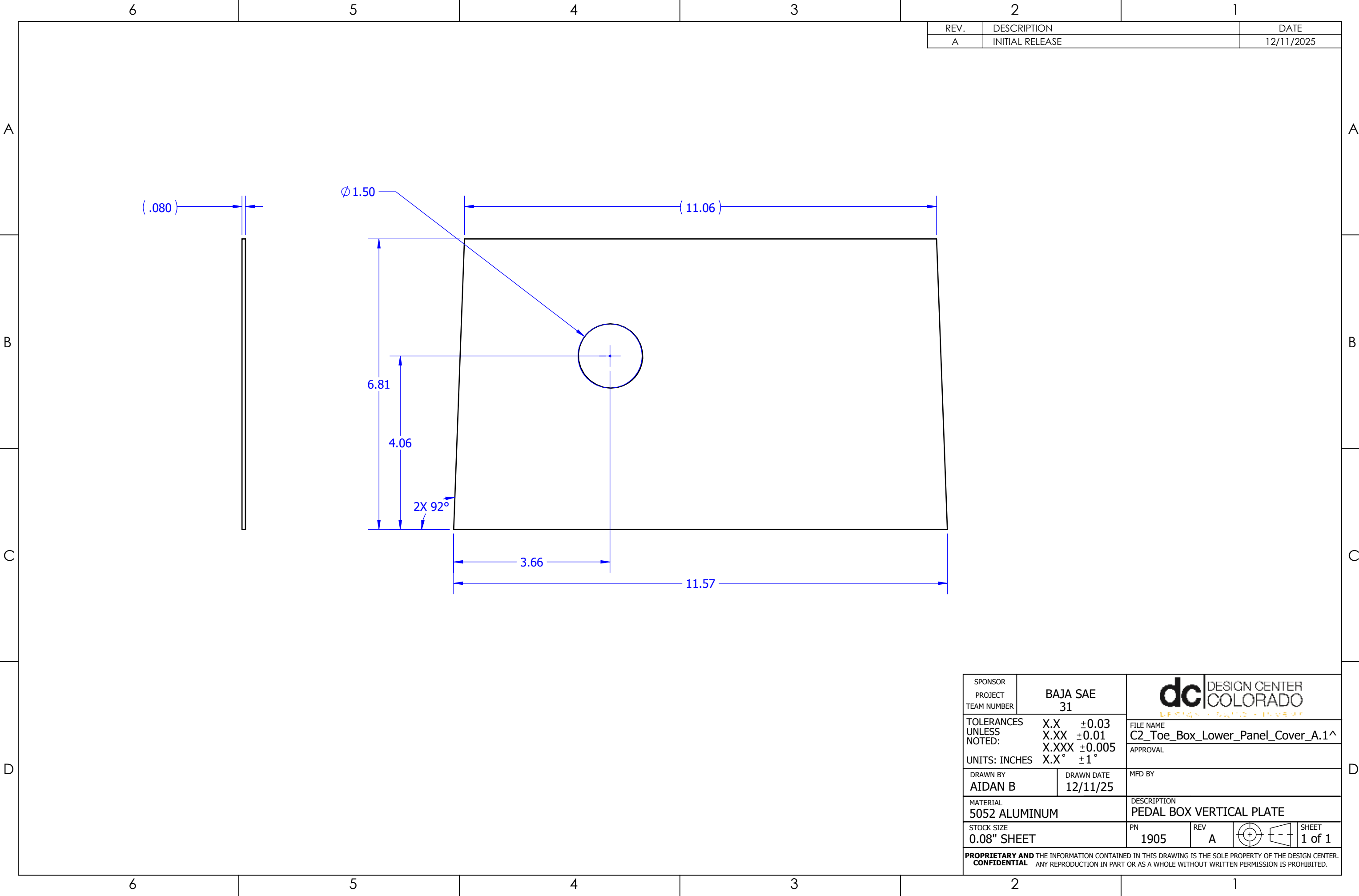


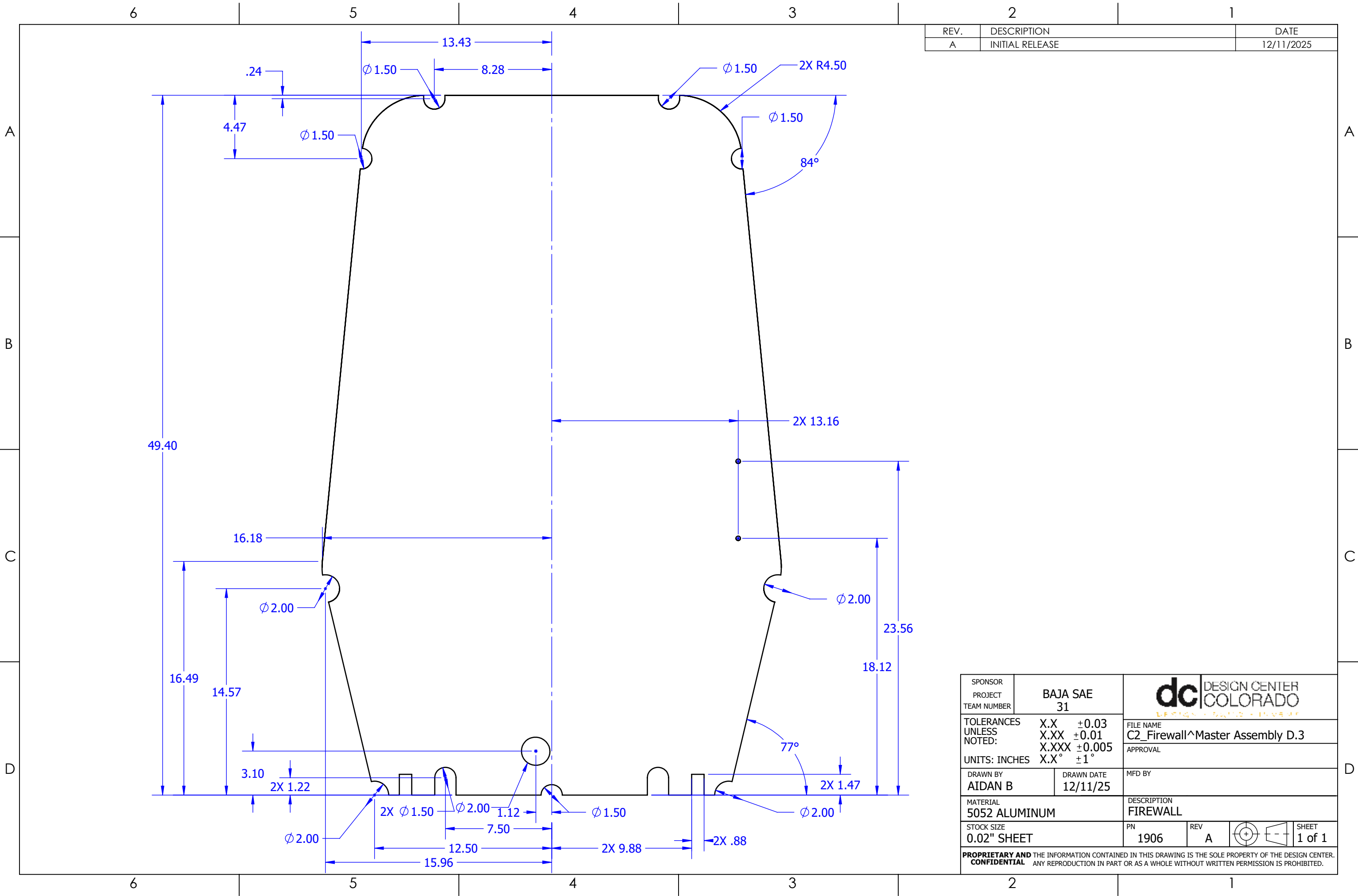


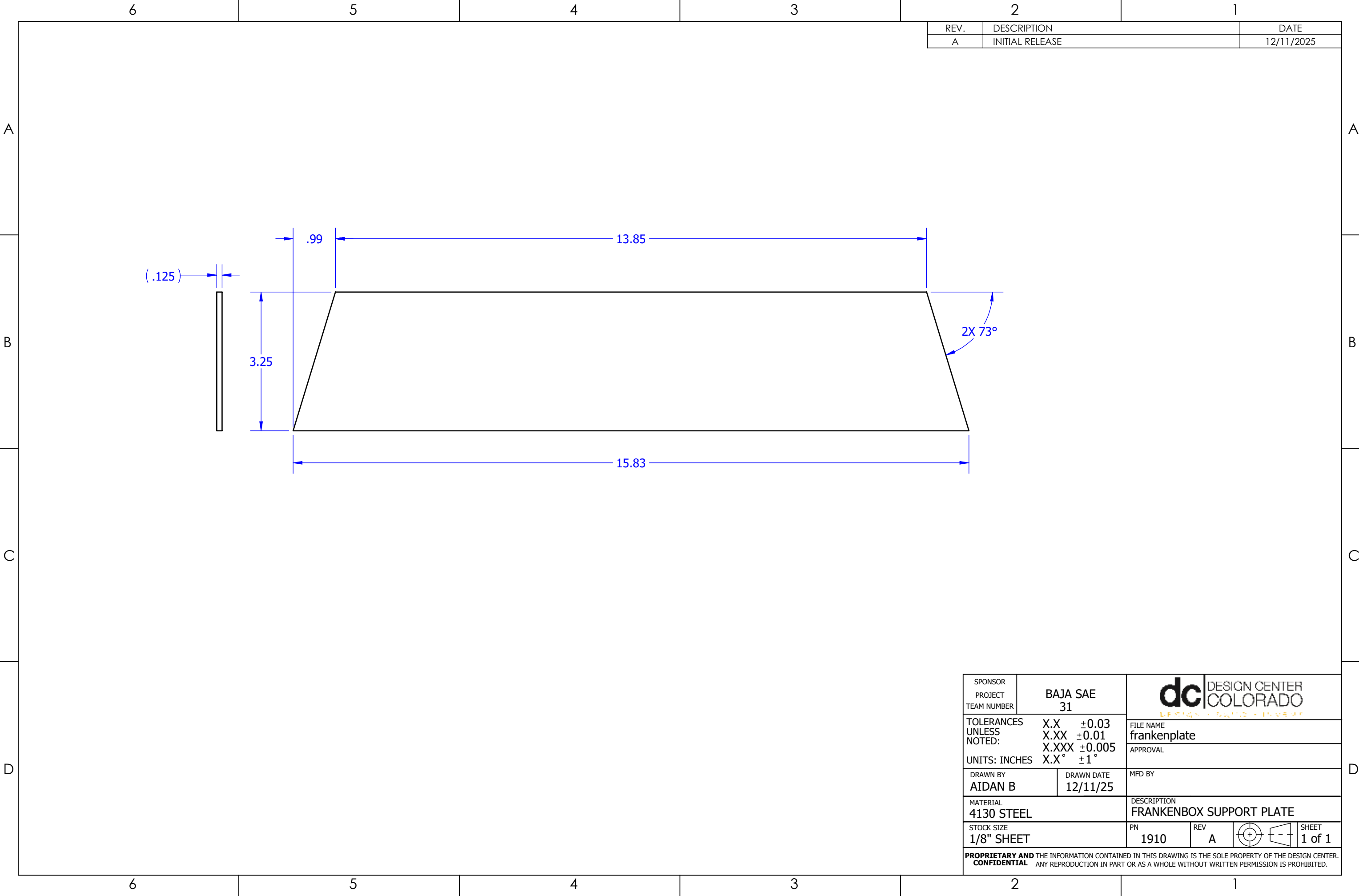


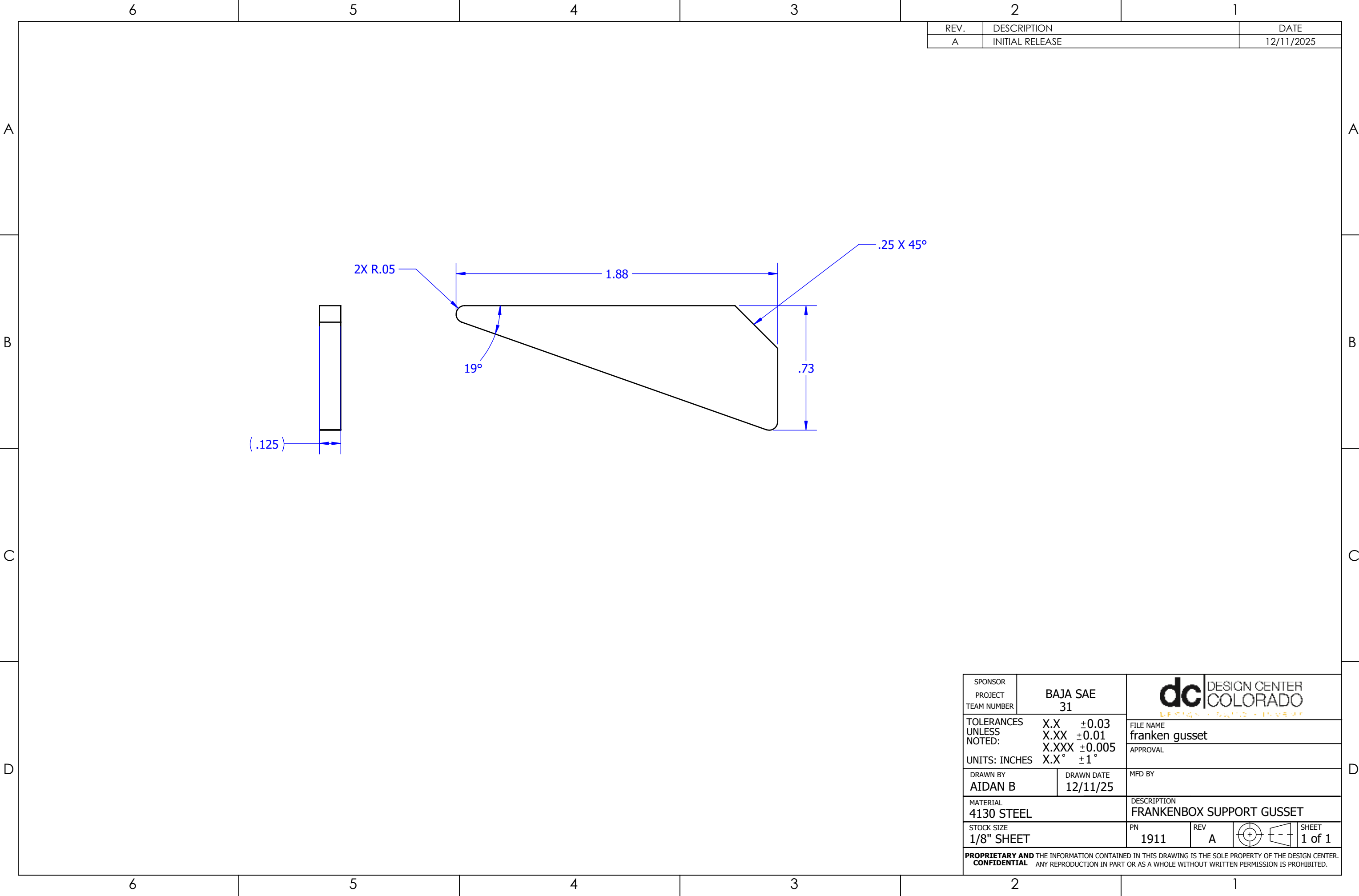
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	12/11/2025

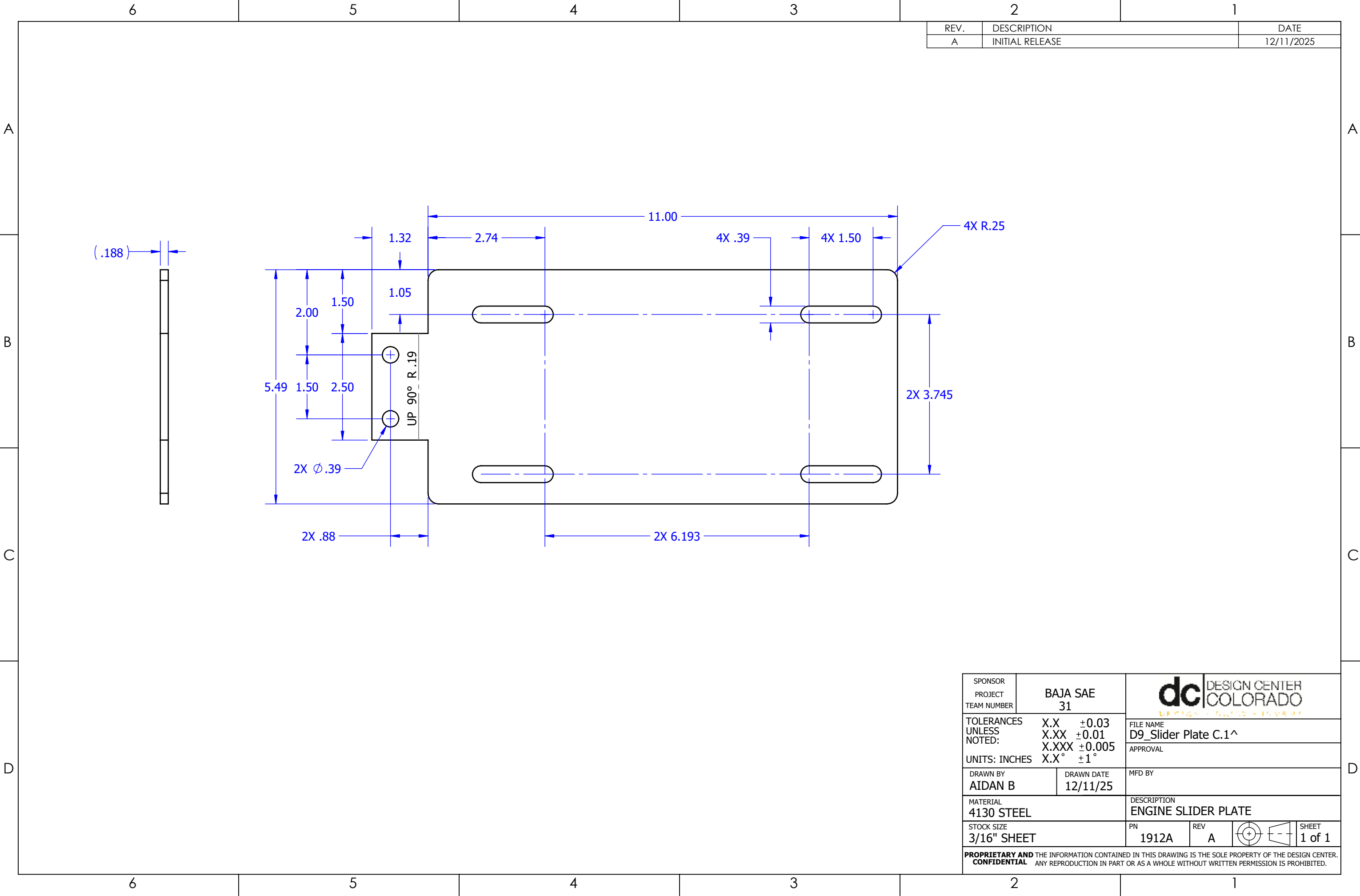
SPONSOR PROJECT TEAM NUMBER	BAJA SAE 31	dc DESIGN CENTER COLORADO DESIGN • BUILD • DRIVE
TOLERANCES UNLESS NOTED:	X.X ±0.03 X.XX ±0.01 X.XXX ±0.005 UNITS: INCHES X.X° ±1°	FILE NAME front toe footwell^
DRAWN BY AIDAN B	DRAWN DATE 12/11/25	APPROVAL
MATERIAL 5052 ALUMINUM	STOCK SIZE .08" SHEET	DESCRIPTION PEDAL BOX HORIZONTAL PLATE
PN 1904	REV A	SHEET 1 of 1
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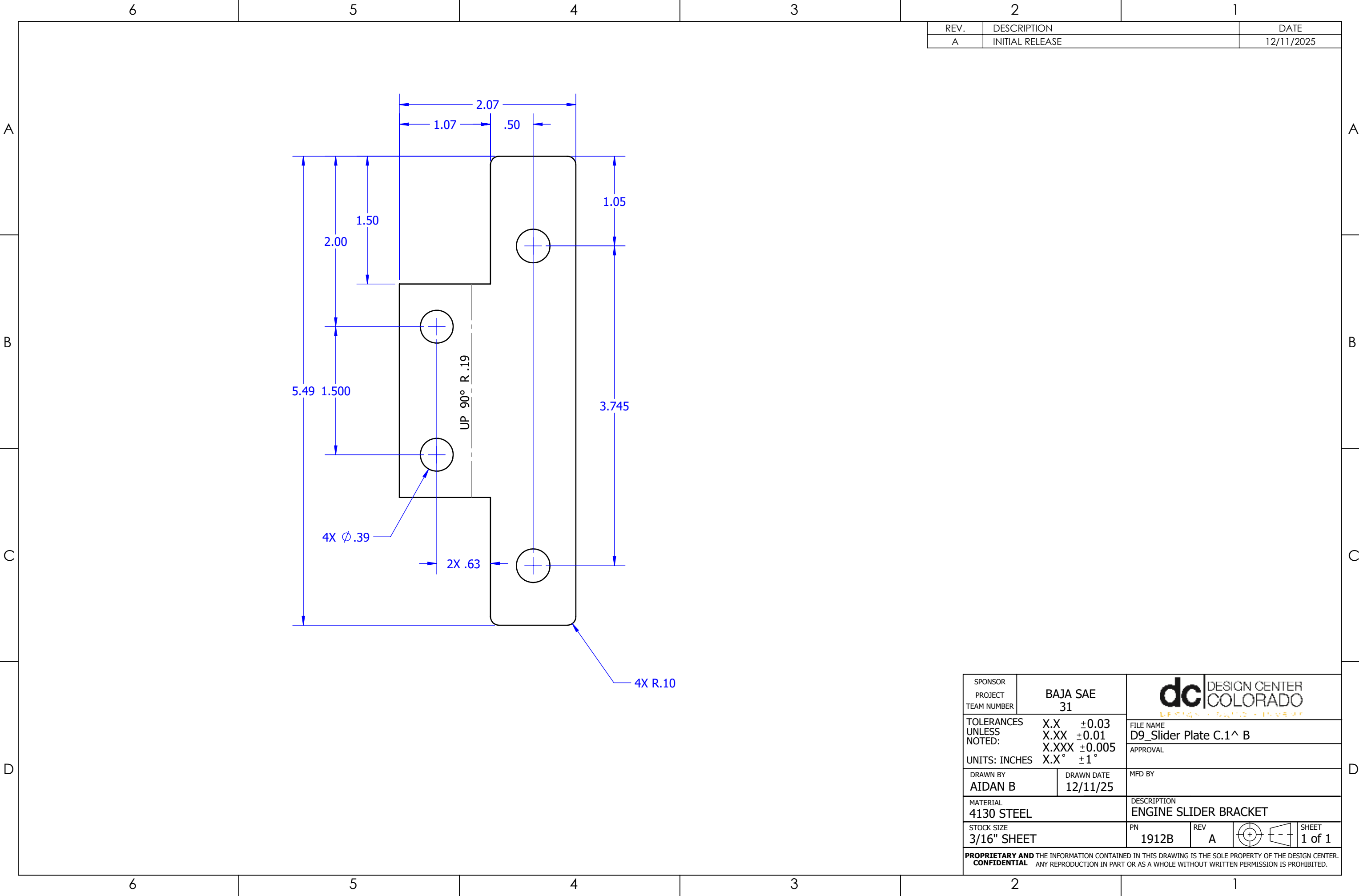


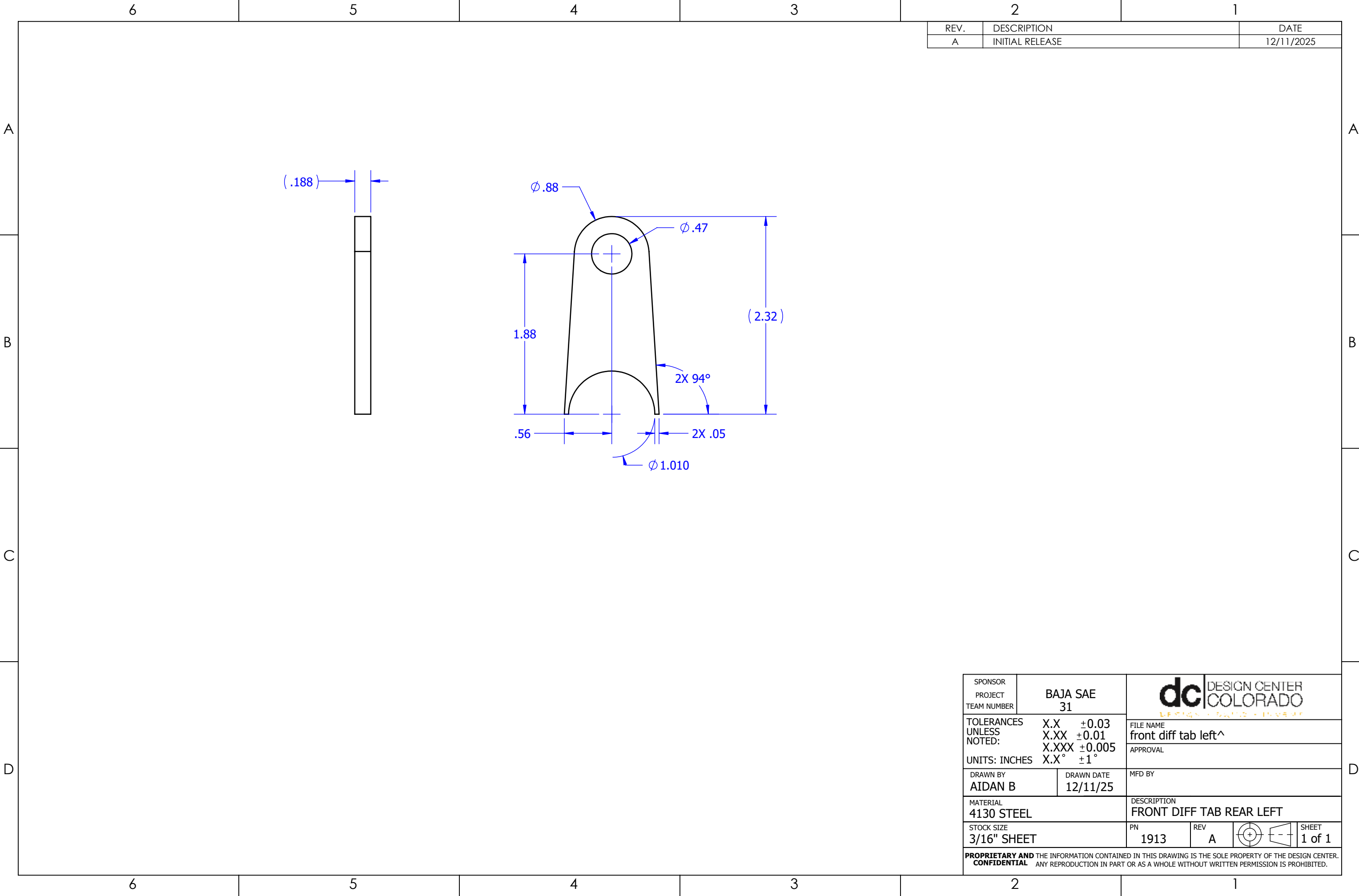


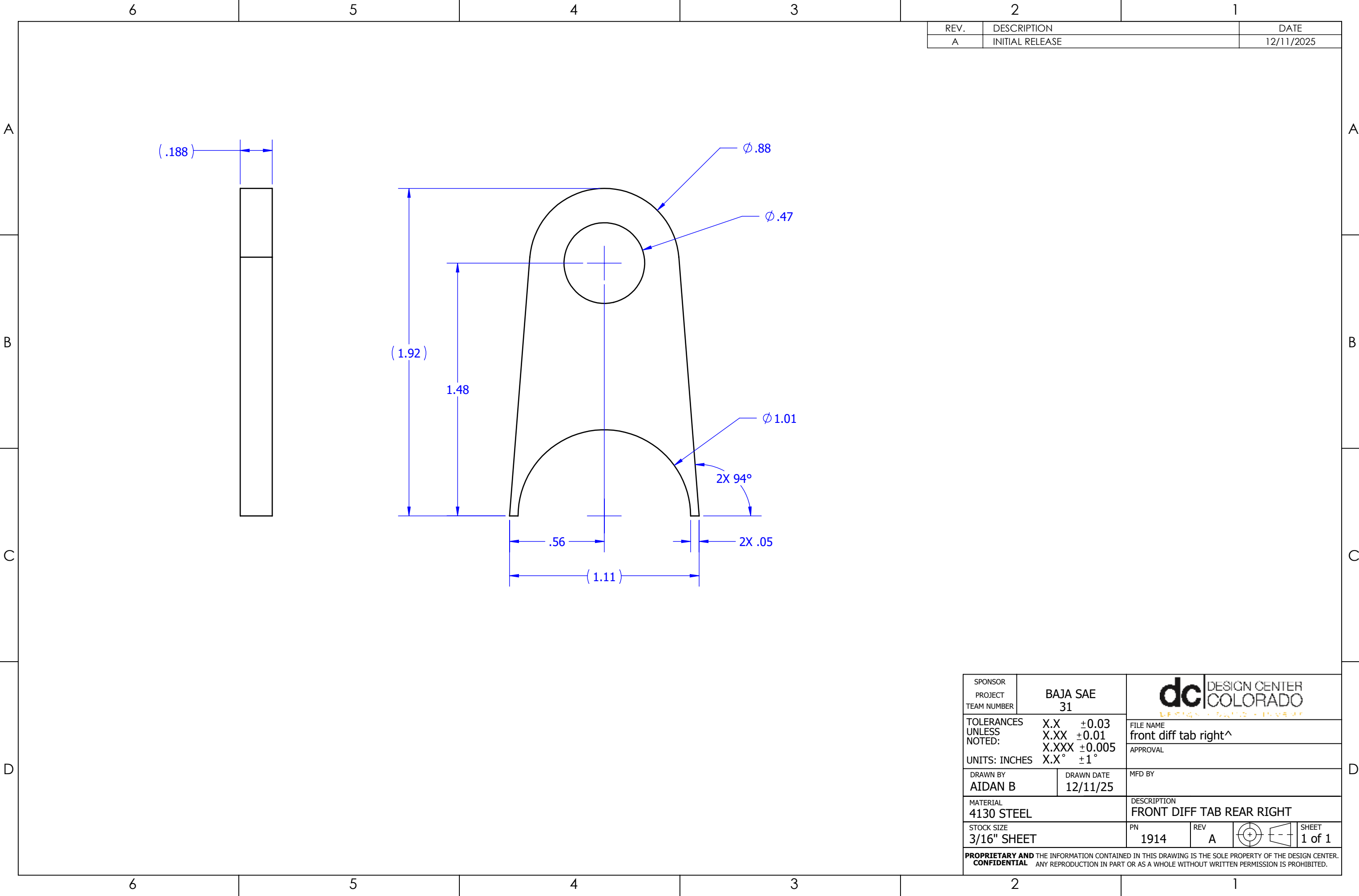


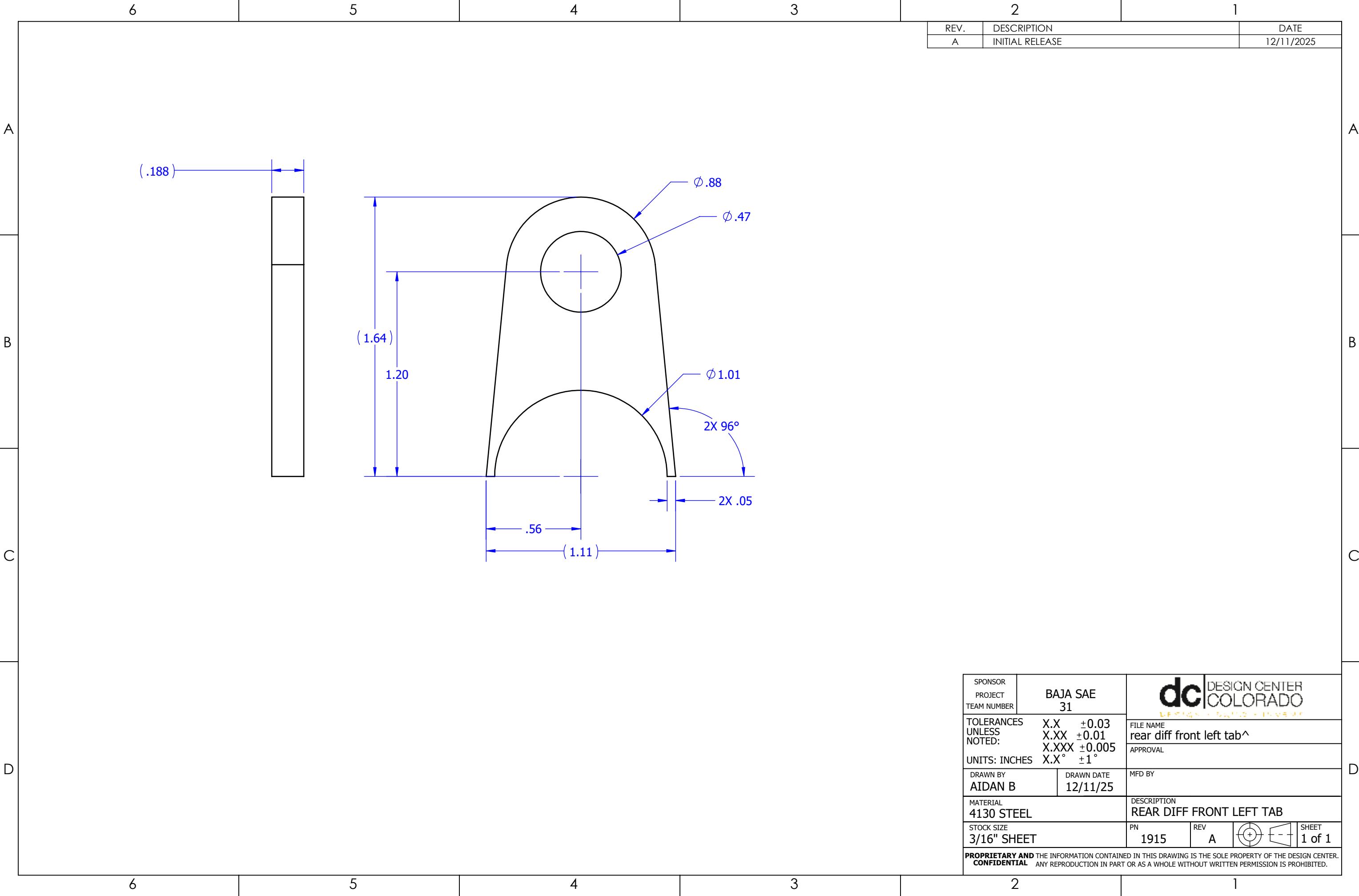


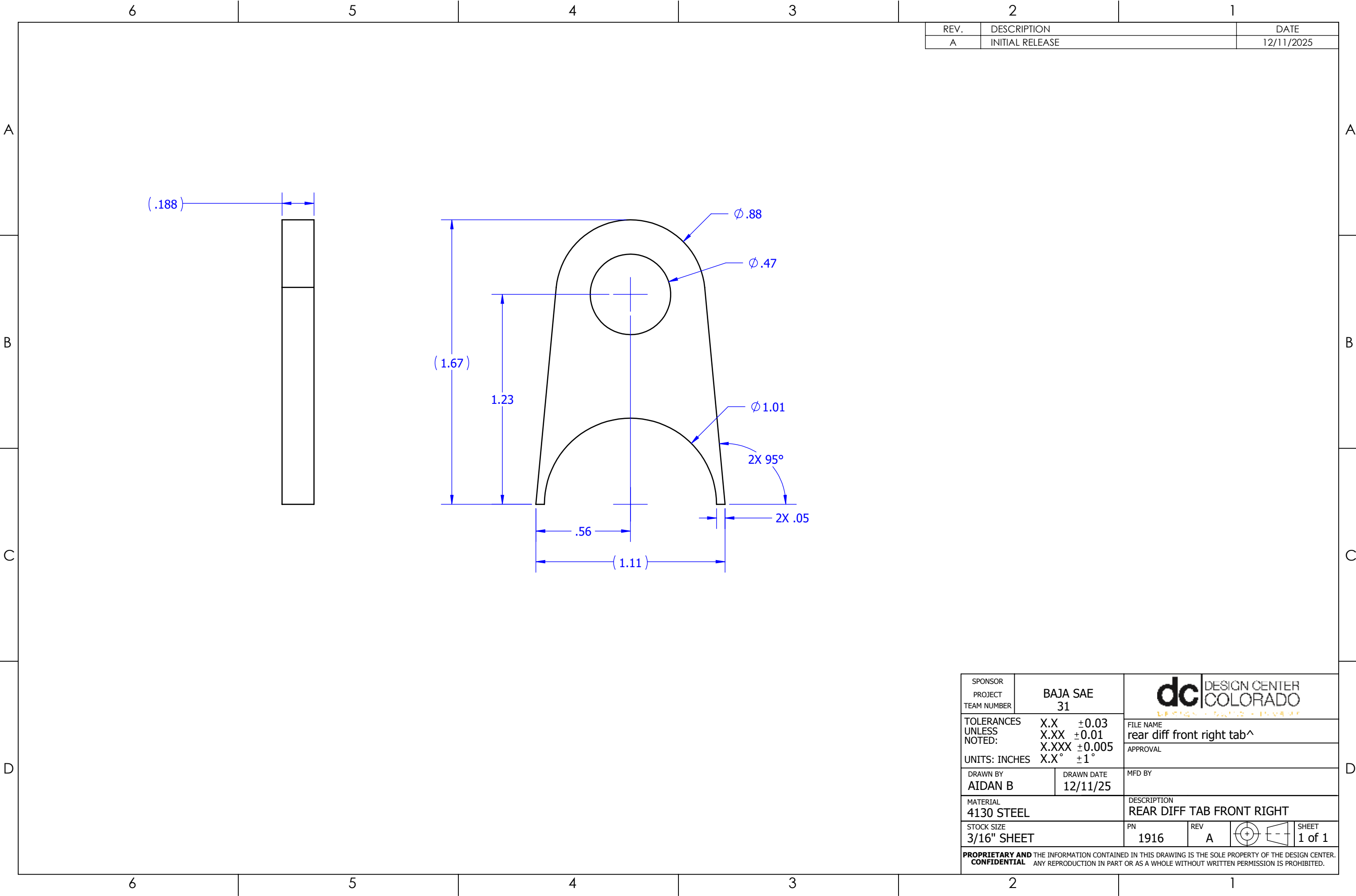


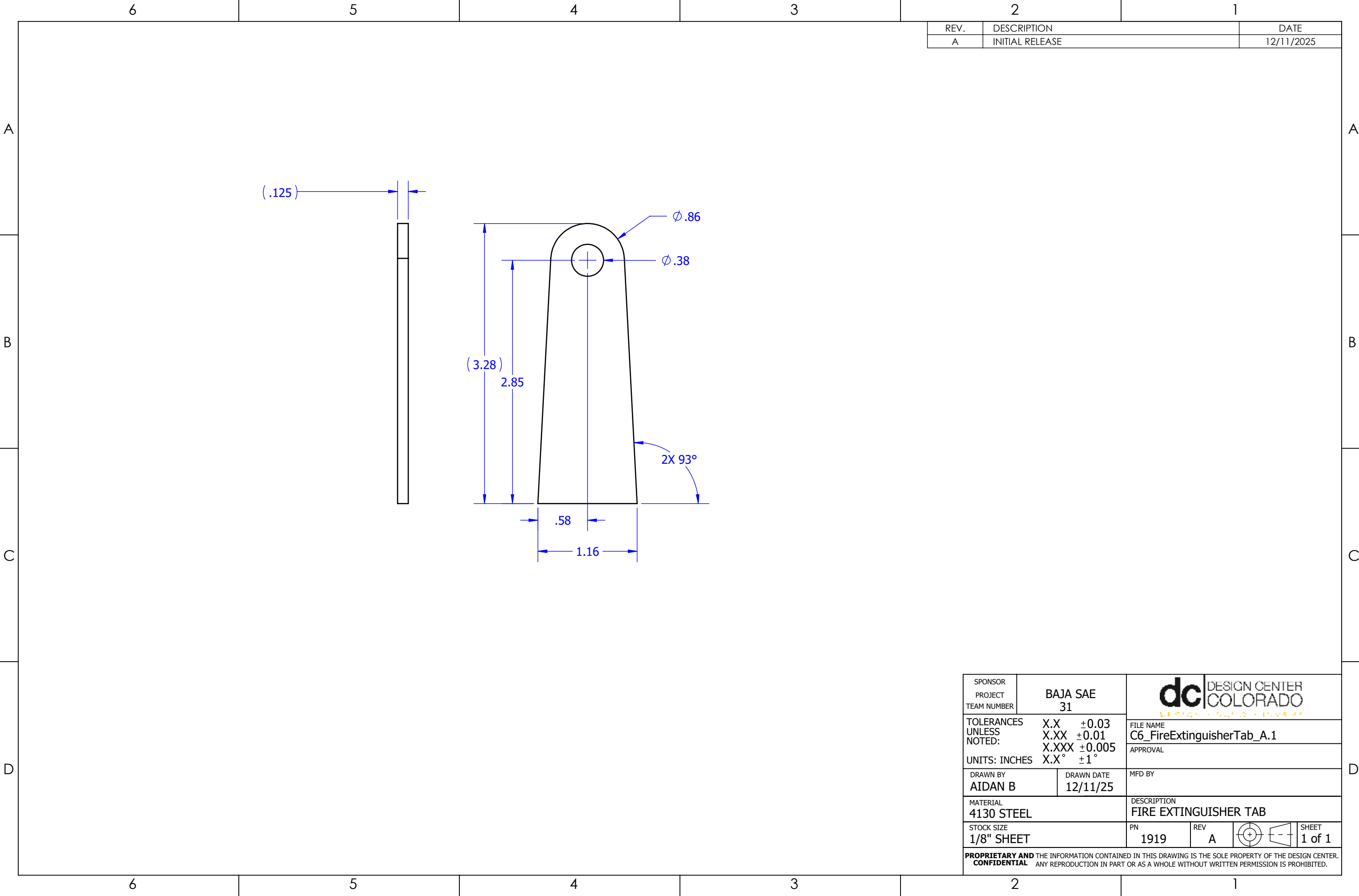


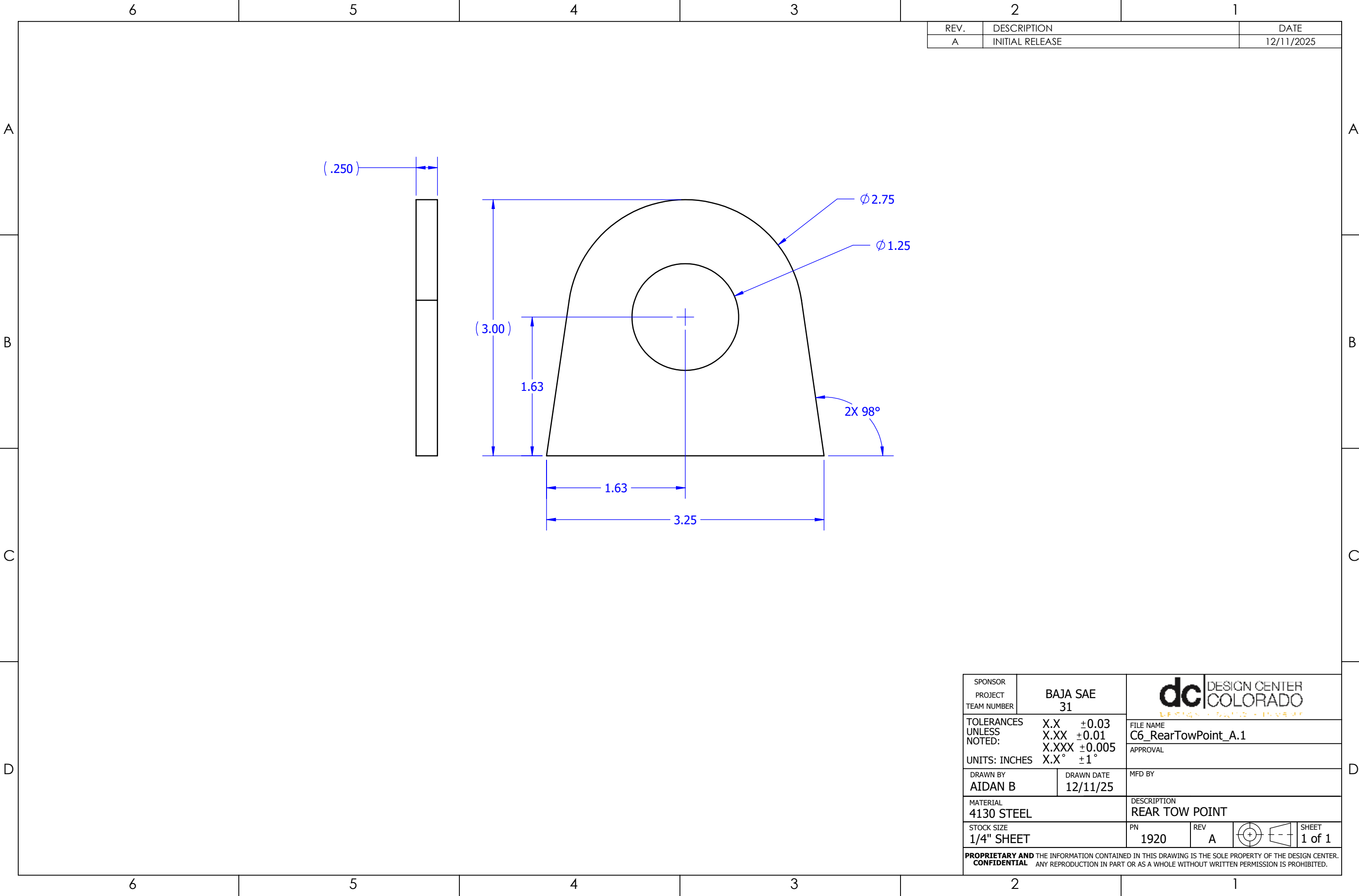


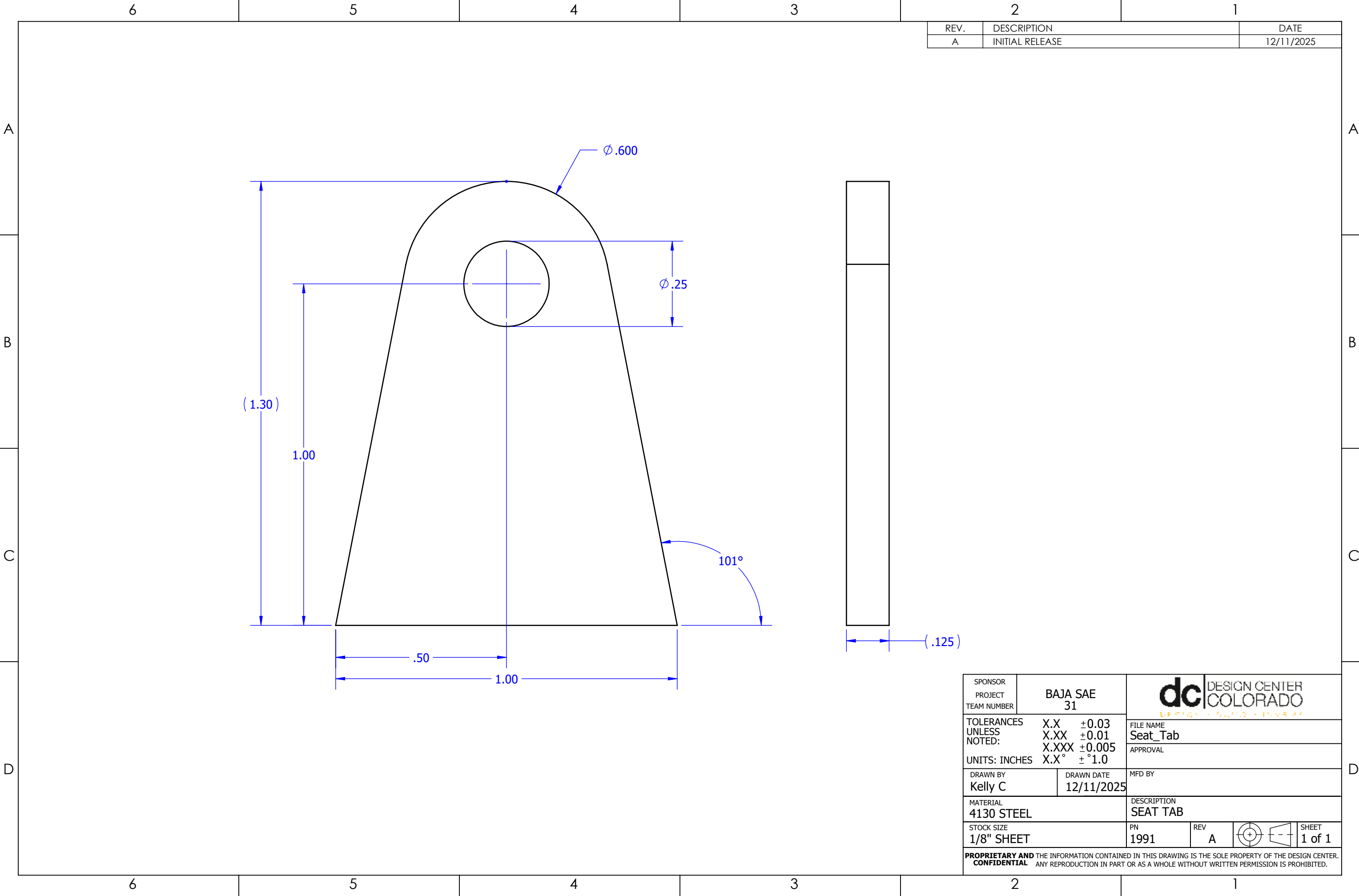


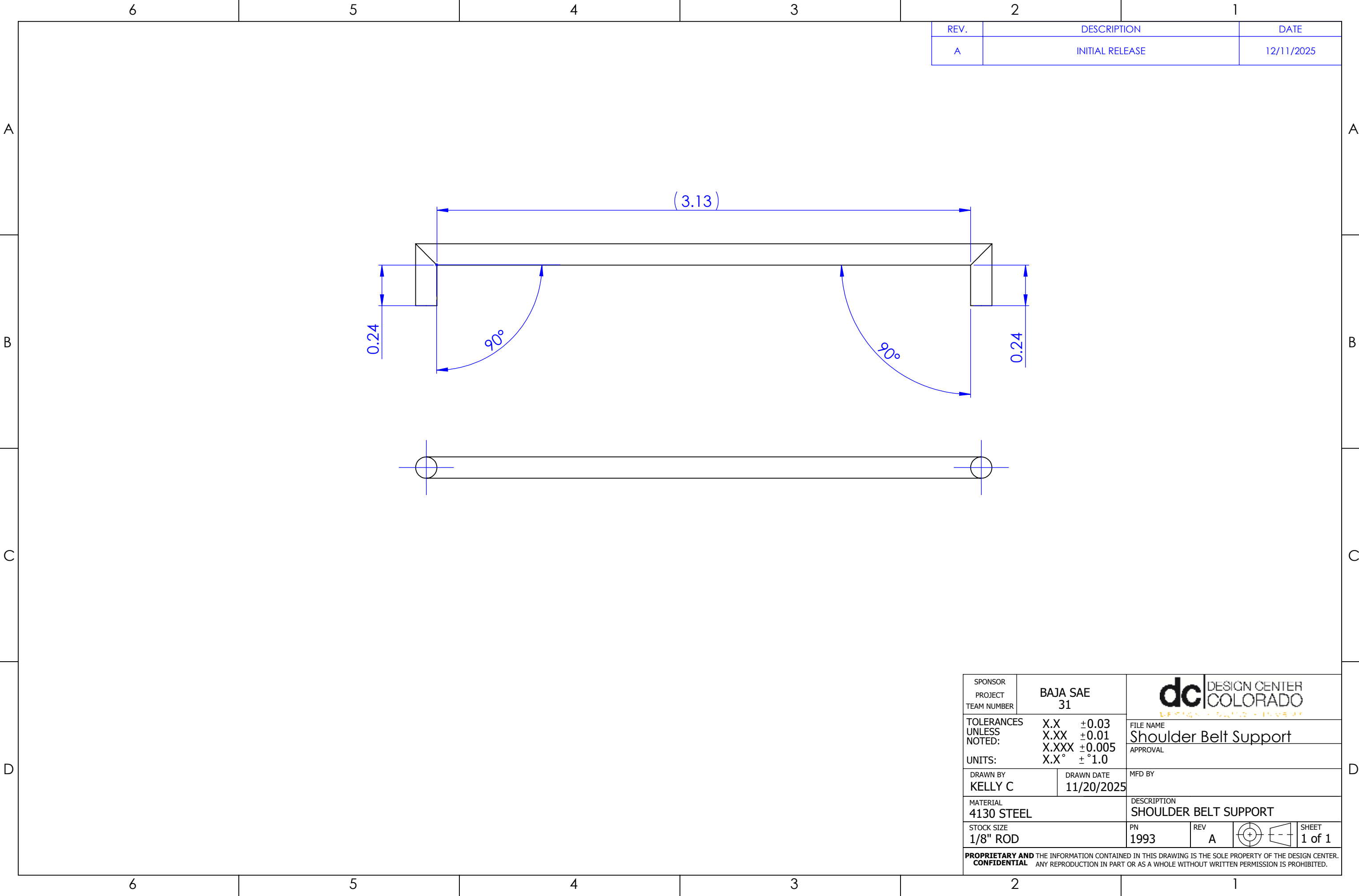


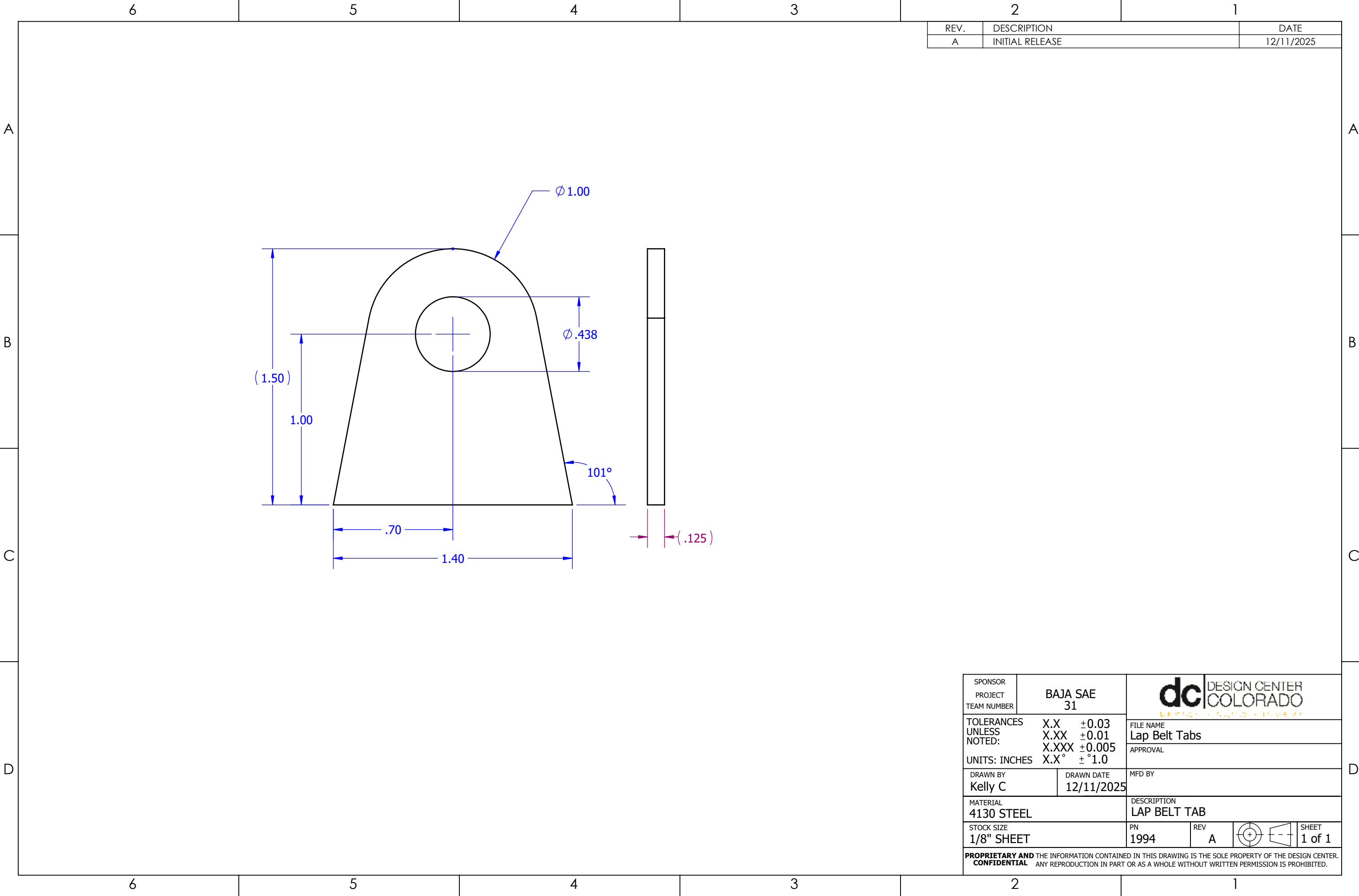


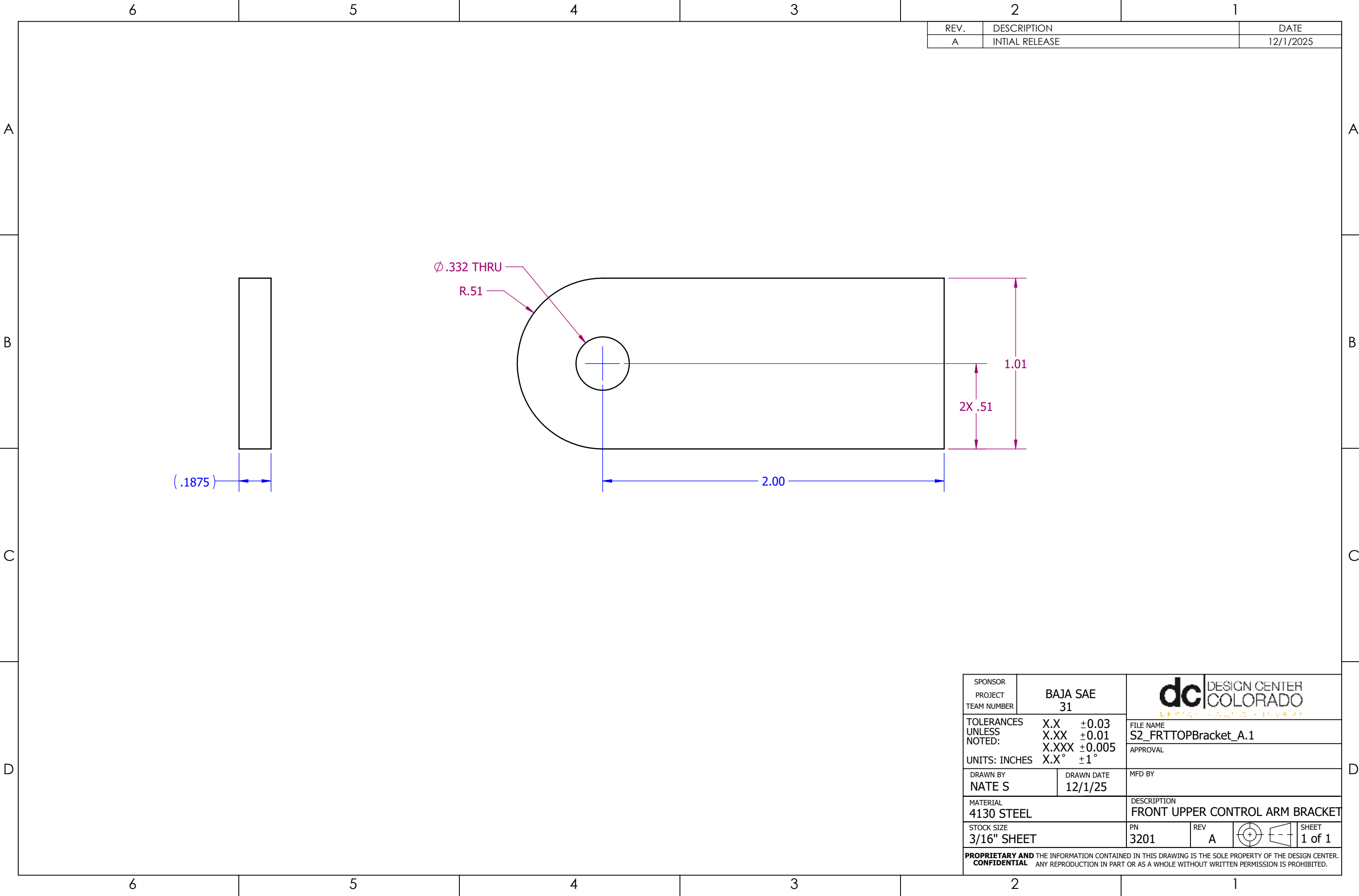


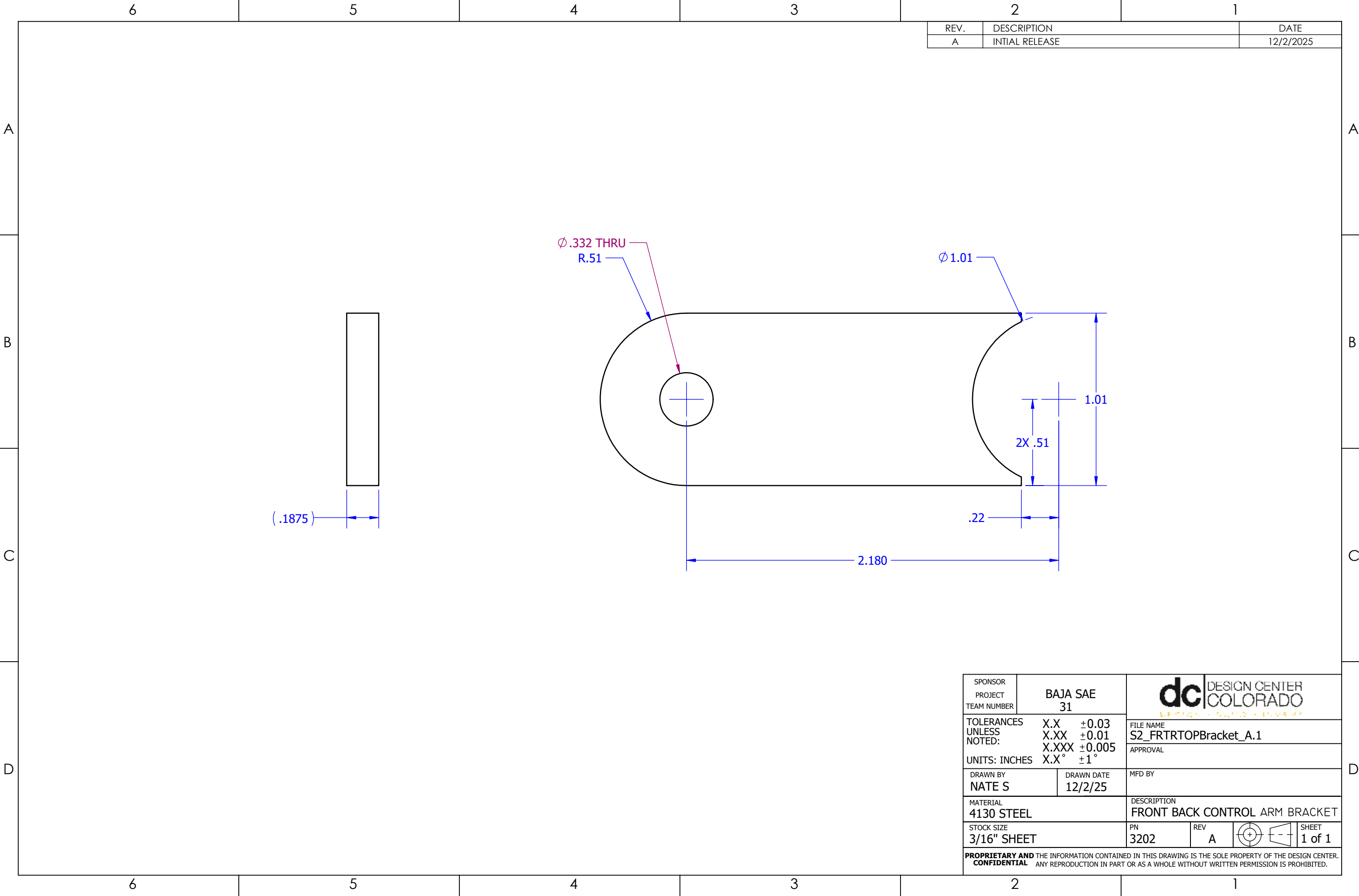


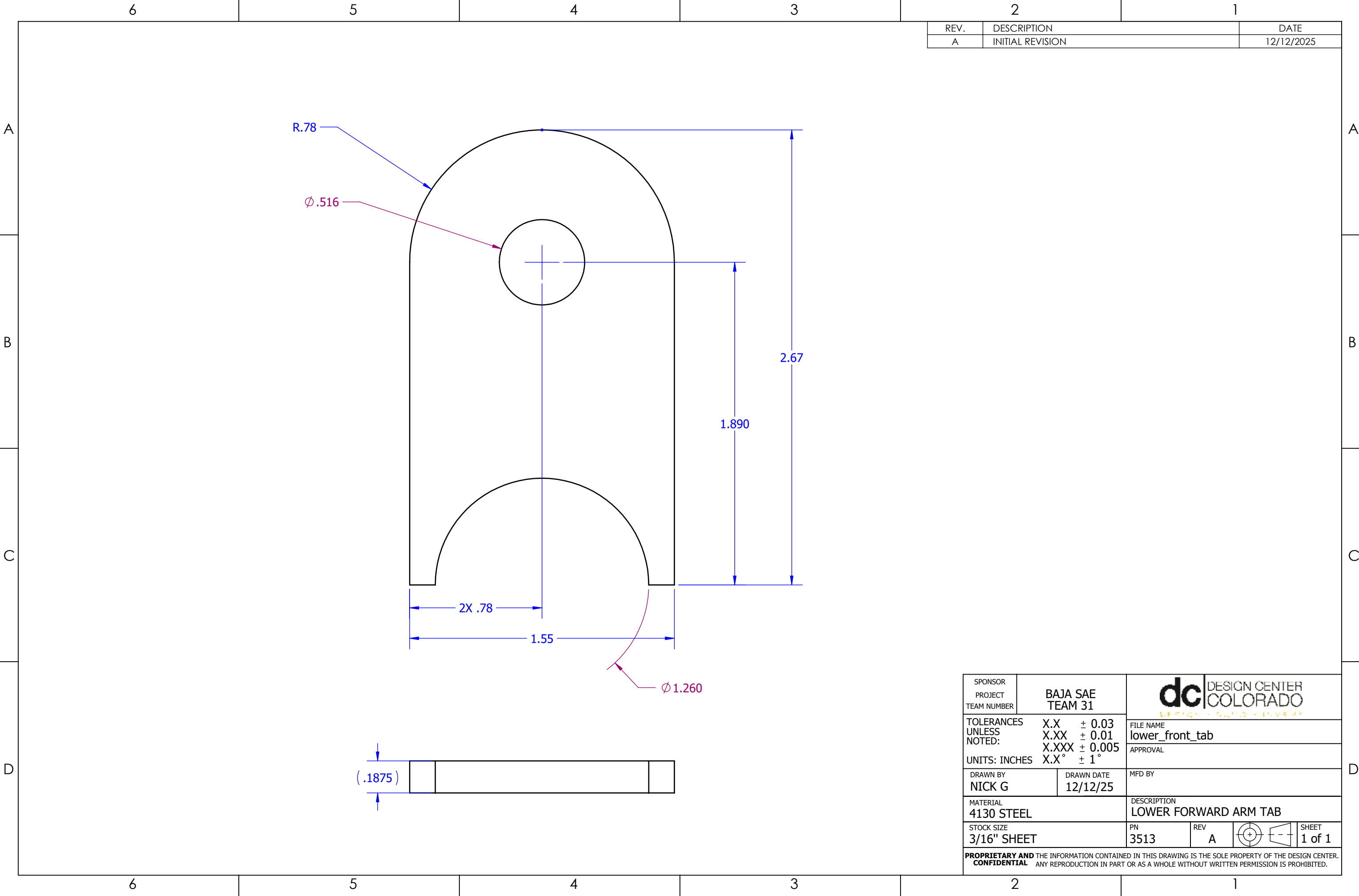












REV.	DESCRIPTION	DATE
A	INITIAL REVISION	12/12/2025

SPONSOR PROJECT TEAM NUMBER		BAJA SAE TEAM 31		dc DESIGN CENTER COLORADO DESIGN • FABRICATE • INVENT	
TOLERANCES UNLESS NOTED:		X.X ± 0.03 X.XX ± 0.01 X.XXX ± 0.005		FILE NAME lower_front_tab	
		UNITS: INCHES X.X° ± 1°		APPROVAL	
DRAWN BY NICK G		DRAWN DATE 12/12/25		MFD BY	
MATERIAL 4130 STEEL		DESCRIPTION LOWER FORWARD ARM TAB			
STOCK SIZE 3/16" SHEET		PN 3513	REV A		SHEET 1 of 1
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