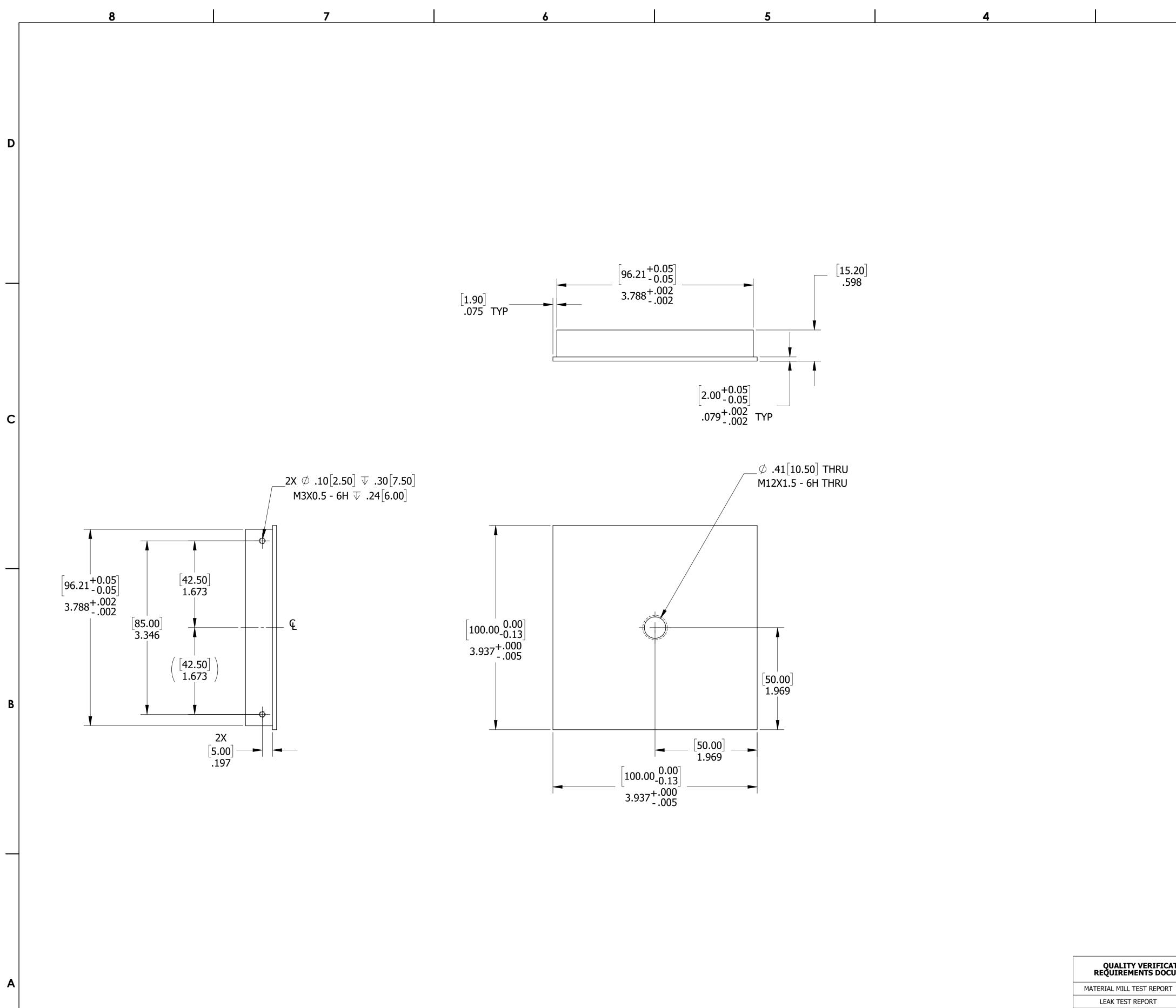


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MANCE REPORT	X	DO NO	DT SCAL	E DRAWING		SolidWork		SCAL	E 1:8	NAME	4M TOWER WELDMENT	SHEET	1 of 1					
ON REQUEST	x	X.XX = X.XXX	±.010 = ±.005			HIS DRAWING PRODUC				N/A	EPIC	-300	0					
_ TEST REPORT		LINEAF X.X = ±	.100 ±1	GULAR /2°		I TAL IGHT	LBS	SIZE	NEXT AS	SY	DWG NO.		REV					
SELLER CERT	X	DEFA	ULT TO	LERANCES						IUV	NER BODY ASSE	MRLI						
NAL REPORT	X	REMOV	'E ALL BU	RRS	QA													
EAT REPORT		BREAK	SHARP C	ORNERS AND	ENG	EJ FOUNTAIN	03/09/202	5		7	TOWER ASSEMB	IY						
SPECTION REPORT		INTERP TOLER	RET DIME	ENSIONS AND ER ASME Y14.5M				-			EPIC							
ING CERT		DIMENS	SIONS ARE	E IN INCHES	СНК	JP SLADE	03/09/202					· -						
ST REPORT		UNLES	S OTHER	RWISE NOTED	DRW	EJ FOUNTAIN	03/09/202	3	RSG		REMOTE SYSTEMS GROUP							
LL TEST REPORT		$\square \Psi$		I ROJECTION	DES	EJ FOUNTAIN	03/09/202	$ \langle$		∕	CONTRACT DE-AC05-000R22	25 OAK RIDGE, TN						
ITY VERIFICATIO EMENTS DOCUMI		$  \oplus$	$\leftarrow$	THIRD-ANGLE PROJECTION		APPROVALS D			- Por		THIS DRAWING IS THE OAK RIDGE NATIONA OPERATED FOR THE U.S. DEPARTM	L LABORATO						
		ITEM	QTY.		NAM			MAT	MATERIAL		DESCRIPTION	DWG	;					
		1	1	M	CMASI	IER_91595A558		ST	EEL		8MM X 20MM DOWEL PIN	N/A						
		2	10			IER_90358A001			Y STEEL	N	M3-0.5 X 6MM LG LOW SHCS	N/A						
		3	1			ONT PLATE			ON STEEL		PLATE	EPIC-3	-					
		4	1			CK PLATE			ON STEEL		PLATE	EPIC-3						
		5	2	T		OTTOM PLATE			ON STEEL		SHEET METAL 14 GA	EPIC-3						
		6	1		SID	E COVER		CARBC	ON STEEL		Sheet Metal 14 Ga	EPIC-3	04					
		7	1		PC	B COVER		CARBC	ON STEEL		Sheet metal 14 GA	EPIC-3	05					
		8	58	ST	EEL AB	SORBER PLATE		CARBC	on Steel		PLATE	EPIC-3	06					
		9	3	STEEL A	ABSOR	BER PLATE, TAPPED		CARBC	on Steel		PLATE	EPIC-3	07					
		10	4	TUNC	GSTEN	ABSORBER PLATE	TUN	GSTEN	(W 6Ni-4C	υ)	PLATE	EPIC-3	08					
		11	8		LO	NG SHIM		CARBC	on steel		Sheet metal 11 Ga	EPIC-3	09					
		12	4		SHO	SHORT SHIM			on steel		SHEET METAL 11 GA EPIC-3							

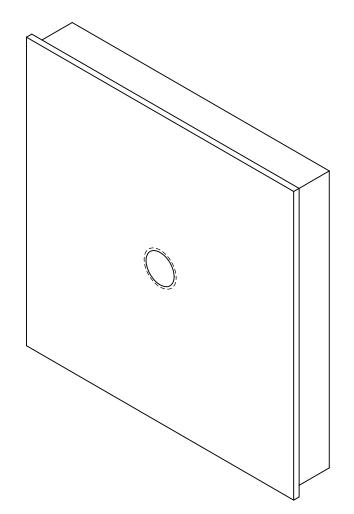
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QUALITY VERIFICATIO REQUIREMENTS DOCUM	ON ENTS	+ THIRD-ANGLE PROJECTION		APPROVALS	DATE		1. Por	2	-	THIS DRAWING IS <b>RIDGE NATIO</b> ED FOR THE U.S. DE	ONAL LAB	ORATO	-	
MATERIAL MILL TEST REPORT	X		DES	EJ FOUNTAIN	03/09/2023	$\mathbb{K}$		∕	CC	ONTRACT DE-AC05-00	OR22725 OAK F	RIDGE, TN		
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/09/2023	s  [	RSG		RE	MOTE SYS	STEMS (	GROL	JP	Plate
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/09/2023									_  ±
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG	EJ FOUNTAIN	03/09/2023	-				EPIC				r Fro
HEAT TREAT REPORT		BREAK SHARP CORNERS AND		LITOURIAIN	03/03/2023	<u>'</u>		т	OWE	R ASSE	ABLY			Tower
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA					-						
MATERIAL SELLER CERT		DEFAULT TOLERANCES							FK	ONT PLA	16			4Μ
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°		TAL IGHT <b>2.45</b>	19 LBS	SIZE	SIZE NEXT ASSY			DWG NO.			REV	FILE
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005					EF	PIC-200		EP:	<b>IC-30</b> :	1	0	
NONCONFORMANCE REPORT	DNCONFORMANCE REPORT X DO NOT SCALE DRAW			SolidWorks		SCAL	E 1:1	NAME	FRON	T PLATE		SHEET	1 of 1	GAL
	3		2			<b>·</b> ·					1			



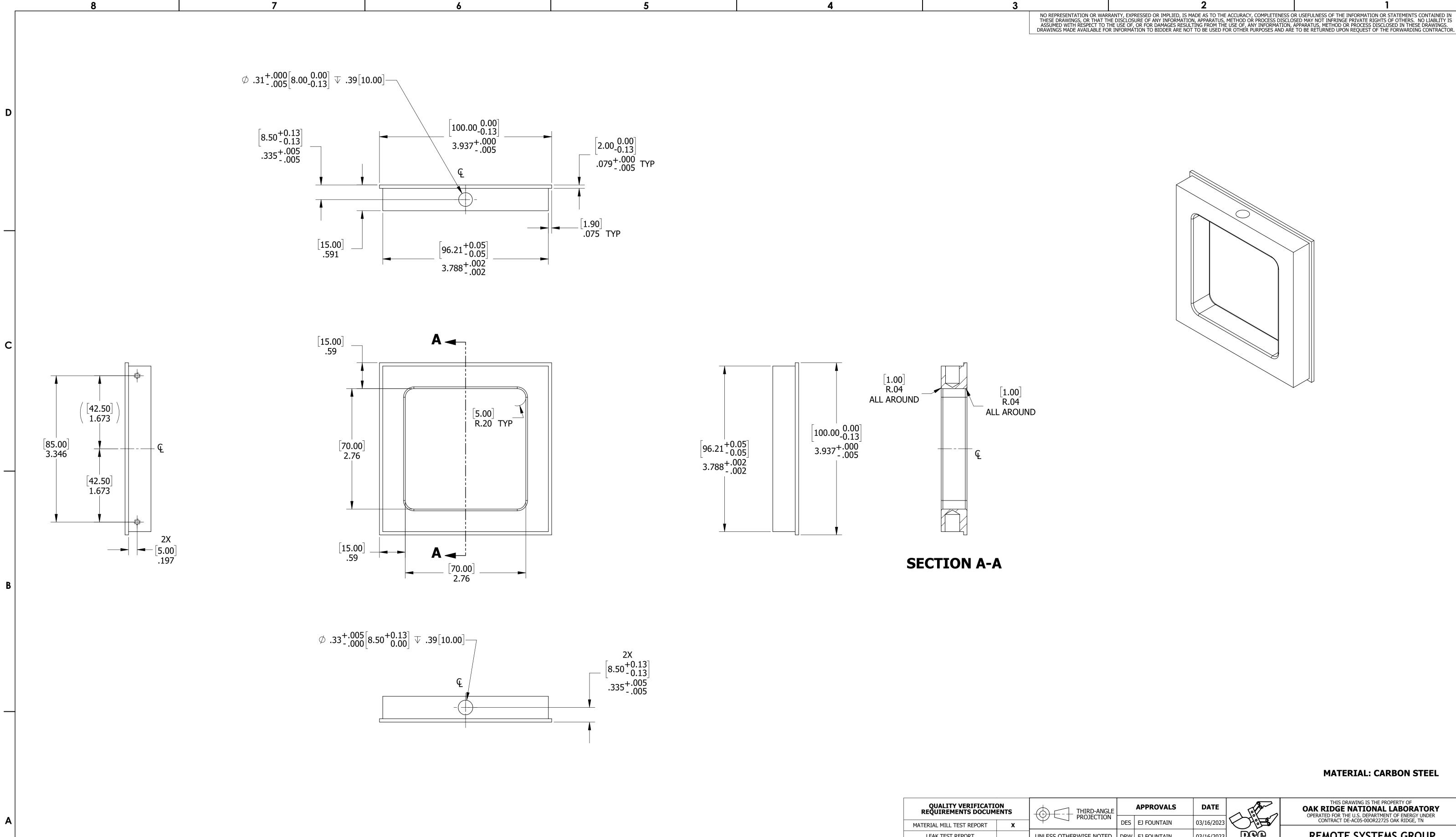
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### MATERIAL: CARBON STEEL

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QUALITY VERIFICATIO REQUIREMENTS DOCUM	ON ENTS	THIRD-ANGLE		APPROVALS	DATE		rel an		-	RIDGE	RAWING IS THE <b>NATION</b> HE U.S. DEPART	AL LAE	BORAT	-	
MATERIAL MILL TEST REPORT	X		DES	EJ FOUNTAIN	03/16/2023		), <b>E</b>	∕	C	ONTRACT I	DE-AC05-00OR2	2725 OAK	RIDGE, TN		_
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/16/2023		3SG		RE	MOT	E SYST	EMS	GROI	JP	
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/24/2023										
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG		03/16/2023	<b>EPIC</b>									
HEAT TREAT REPORT		BREAK SHARP CORNERS AND			03/10/2023	) 		т	OW	ER A	SSEME	BLY			
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA					-							
MATERIAL SELLER CERT		DEFAULT TOLERANCES							Dł		PLATE				
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°			159 LBS	SIZE	NEXT AS	SY		DWG NO	).			REV	
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005		IGHT LIE LIE		$ \mathbf{D} $	EF	PIC-200			EPIC	:-30	2	0	
NONCONFORMANCE REPORT	X	DO NOT SCALE DRAWING	1 '	SolidWork		SCALE	1:1	NAME	BACK	PLATE			SHEET	1 of 1	
	3		•		•						1	•		_	

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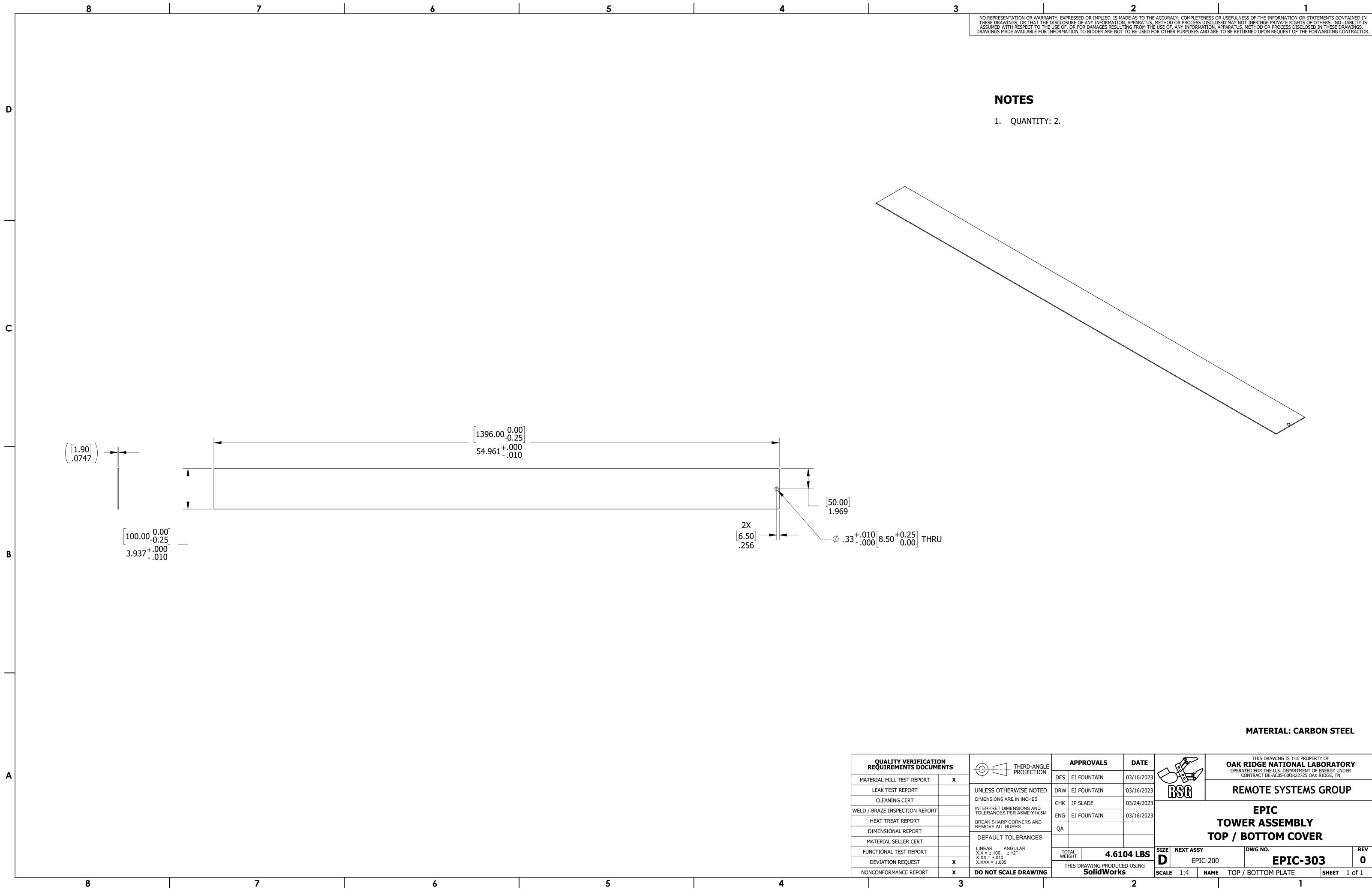
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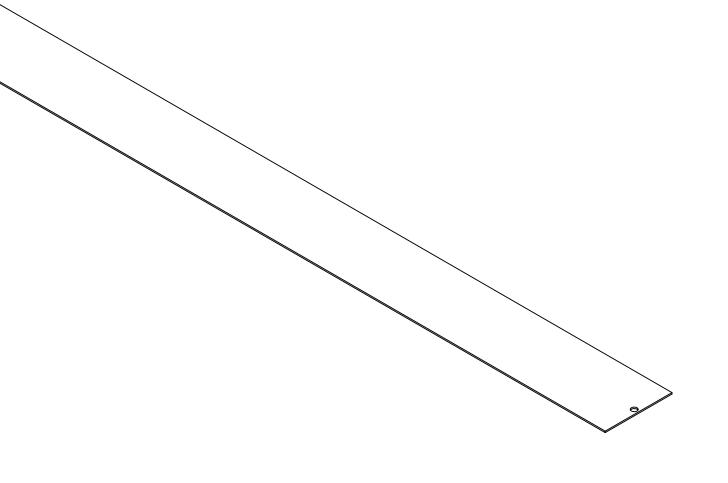
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QUALITY VERIFICATIO REQUIREMENTS DOCUME	ON ENTS			APPROVALS	DATE			-	THIS DRAWING IS THE PROPER <b>RIDGE NATIONAL LAI</b> ITED FOR THE U.S. DEPARTMENT OF	BORAT	-
MATERIAL MILL TEST REPORT	X	PROJECTION	DES	EJ FOUNTAIN	03/16/2023		∕⊨		ONTRACT DE-AC05-00OR22725 OAK		
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/16/2023	BSG		RE	MOTE SYSTEMS	GRO	JP
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/24/2023						
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG		03/16/2023	-			EPIC		
HEAT TREAT REPORT		BREAK SHARP CORNERS AND			03/10/2023						
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA				-				
MATERIAL SELLER CERT		DEFAULT TOLERANCES					10	P / E	BOTTOM COVE	K	
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°				SIZE NEXT AS	SY		DWG NO.		REV
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005		IGHT <b>4.0</b>		-  <b>D</b>   EF	PIC-200		EPIC-30	3	0
NONCONFORMANCE REPORT	X	DO NOT SCALE DRAWING	1 '	SolidWork		SCALE 1:4	NAME	TOP /	BOTTOM PLATE	SHEET	1 of 1
	3		2			1					

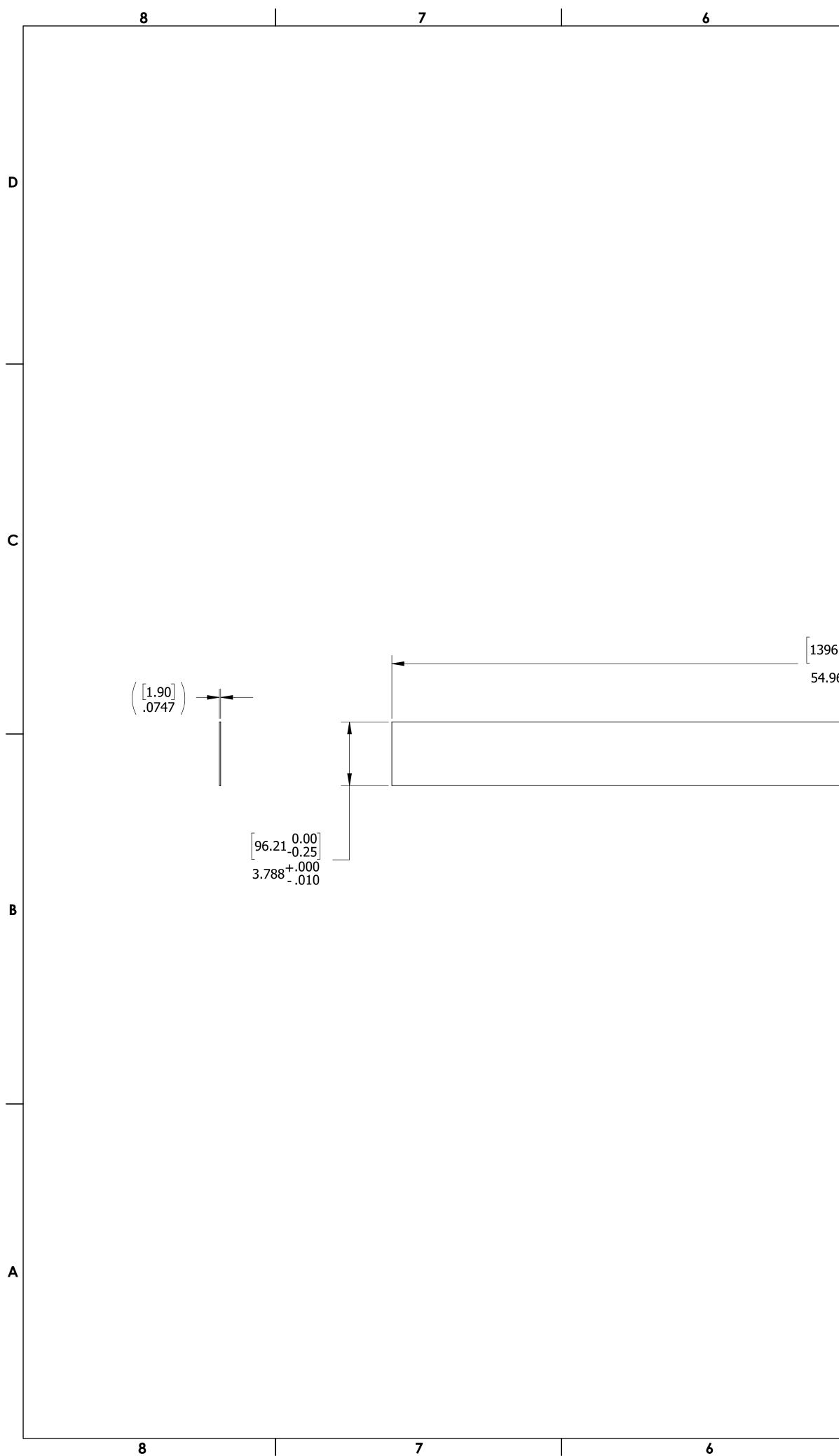
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R	QUALITY VERIFICATIO		
MATE	RIAL MILL TEST REPORT	X	
	LEAK TEST REPORT		UNLESS OTHERWISE N
	CLEANING CERT		DIMENSIONS ARE IN INCH
	BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS TOLERANCES PER ASME
WELD / I			BREAK SHARP CORNERS
	IEAT TREAT REPORT		
ŀ	IEAT TREAT REPORT		
H D			DEFAULT TOLERAN

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THIS DRAWING IS THE PROPERTY OF OAK RIDGE NATIONAL LABORATORY OPERATED FOR THE U.S. DEPARTMENT OF ENERGY UNDER CONTRACT DE-AC05-000R22725 OAK RIDGE, TN - Color APPROVALS DATE D-ANGLE DES EJ FOUNTAIN 03/23/2023 RSG REMOTE SYSTEMS GROUP E NOTED DRW EJ FOUNTAIN 03/23/2023 CHES CHK JP SLADE 03/23/2023 EPIC 5 AND E Y14.5M ENG EJ FOUNTAIN 03/23/2023 Ð **TOWER ASSEMBLY** S AND QA ANCES SIDE COVER Σ LINEAR ANGULAR X.X = ±.100 ±1/2° X.XX = ±.010 X.XXX = ±.005 4.4934 LBS 
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 SHEET
 1 of 1
 DWG NO. SIZE NEXT ASSY TOTAL WEIGHT **EPIC-304** EPIC-200 THIS DRAWING PRODUCED USING SolidWorks X DO NOT SCALE DRAWING SCALE 1:4 NAME SIDE COVER 2 1

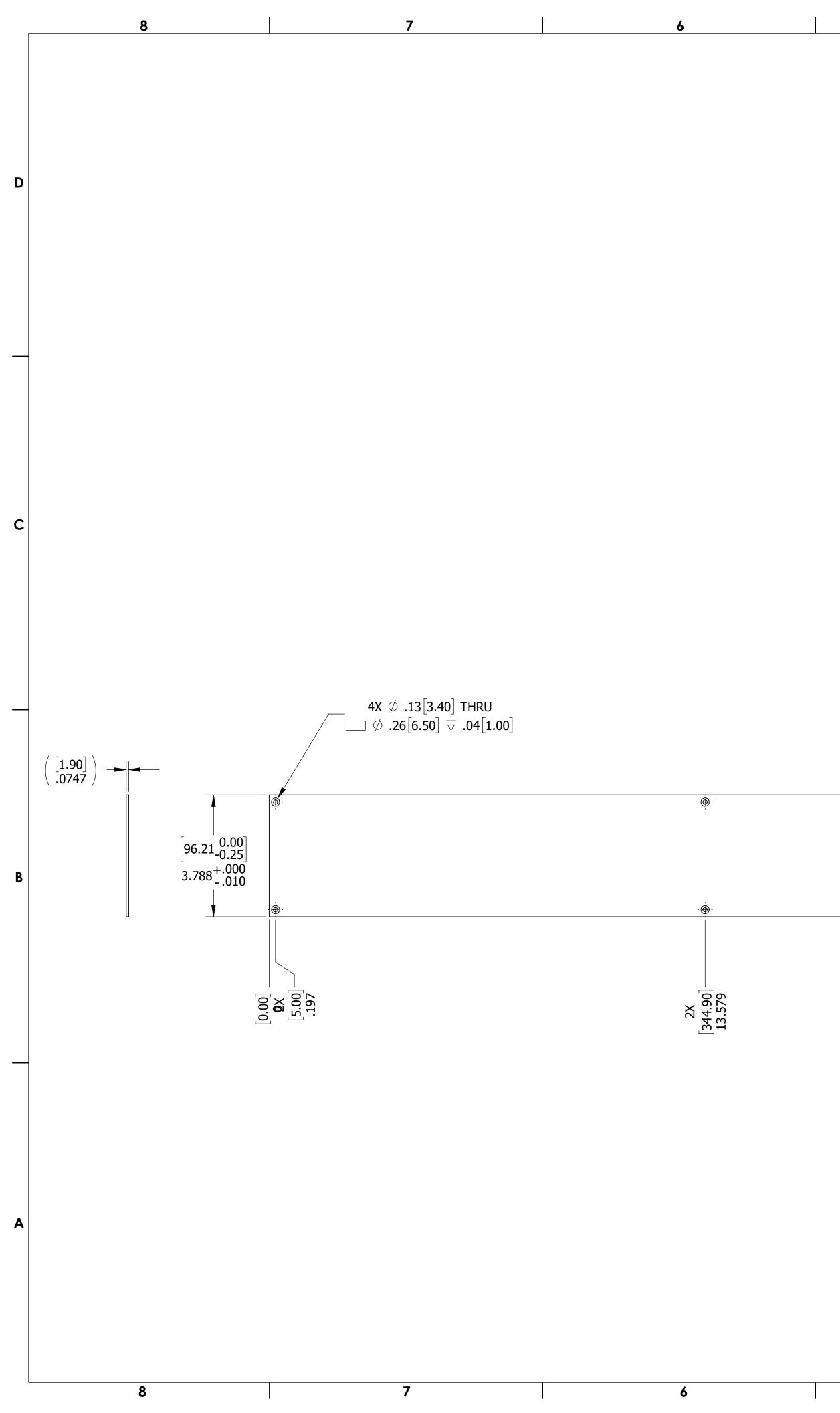
96.00 0.00 96.00 0.25 .961 + .000 010			
.961 <sup>+.000</sup> 010			

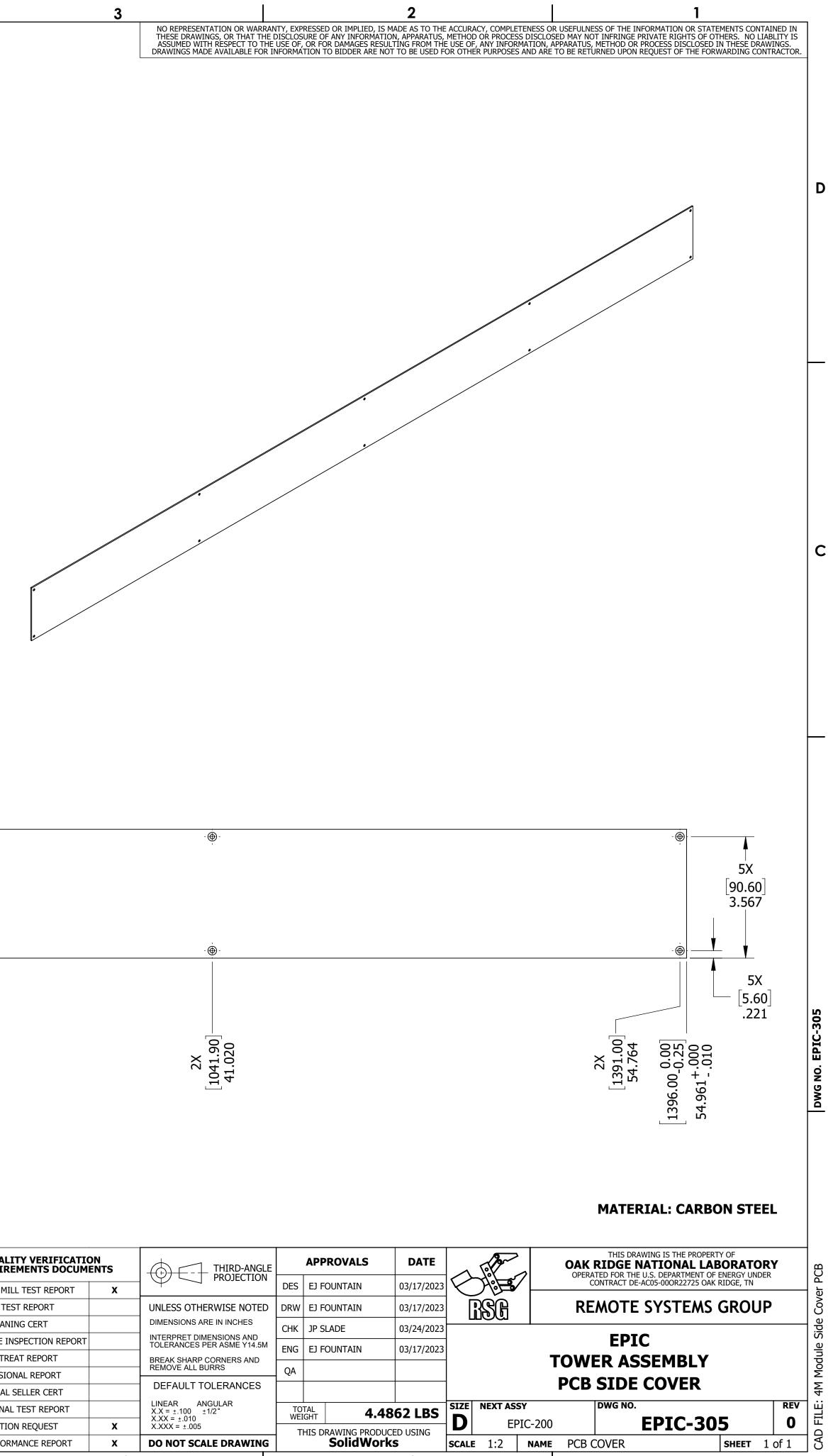
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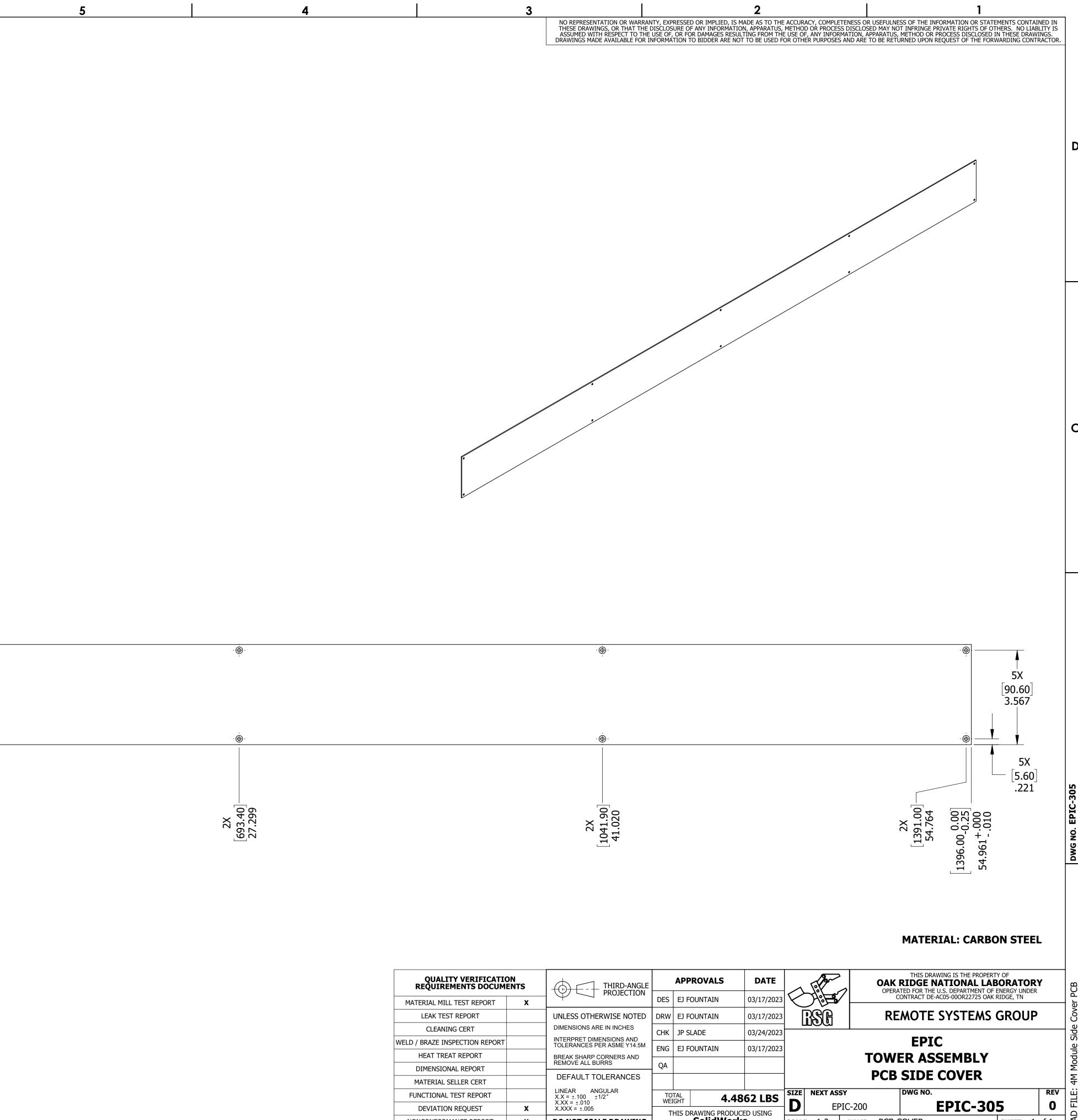
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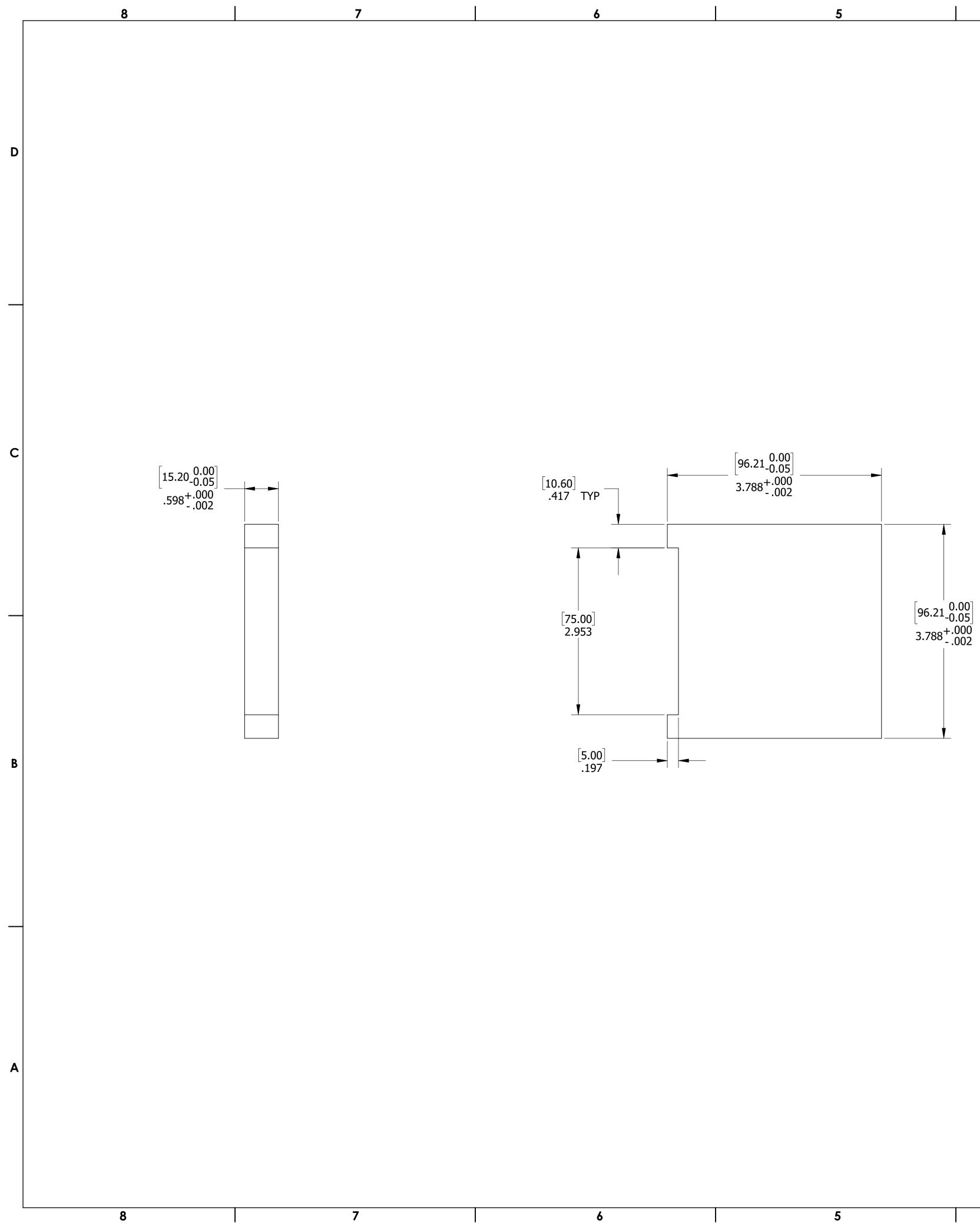








QUALITY VERIFICATIO REQUIREMENTS DOCUM	ON ENTS	
MATERIAL MILL TEST REPORT	X	
LEAK TEST REPORT		UNLESS OTHERWISE N
CLEANING CERT		DIMENSIONS ARE IN INCH
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS
HEAT TREAT REPORT		BREAK SHARP CORNERS
DIMENSIONAL REPORT		REMOVE ALL BURRS
MATERIAL SELLER CERT		DEFAULT TOLERAN
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = $\pm .100 \pm 1/2^{\circ}$
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005
NONCONFORMANCE REPORT	X	DO NOT SCALE DRAV
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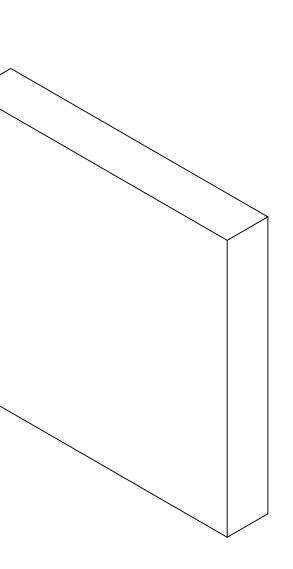


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1. QUANTITY: 58.

QUALITY VERIFICATION REQUIREMENTS DOCUM		THIRD-ANGLE	APPROVALS	DATE		1. Com	2		THIS DRAWING IS THE PRO <b>RIDGE NATIONAL L</b> TED FOR THE U.S. DEPARTMENT	ABORAT		
MATERIAL MILL TEST REPORT	x		DES EJ FOUNTAIN	03/08/2023		X:₽́	∕		ONTRACT DE-AC05-00OR22725 (			
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW EJ FOUNTAIN	03/08/2023		SG		RE	MOTE SYSTEM	S GRO	JP	
CLEANING CERT		DIMENSIONS ARE IN INCHES	CHK JP SLADE	03/24/2023								
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG EJ FOUNTAIN	03/08/2023	2				EPIC			
HEAT TREAT REPORT		BREAK SHARP CORNERS AND		03/00/2023	, _		т	OW	ER ASSEMBLY	(		
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA				_			-		
MATERIAL SELLER CERT		DEFAULT TOLERANCES					SIE		BSORBER PL	AIC		
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°	TOTAL 2.35	10 LBS	SIZE	NEXT ASS	SY		DWG NO.			EV
DEVIATION REQUEST	Х	X.XX = ±.010 X.XXX = ±.005		T <b>2.3510 LBS D</b> EPIC-2					EPIC-3	06		0
NONCONFORMANCE REPORT	x	DO NOT SCALE DRAWING	SolidWork		SCALE 1:1 N			STEE	ABSORBER PLATE	SHEET	1 of 1	
	3 2								1	÷		

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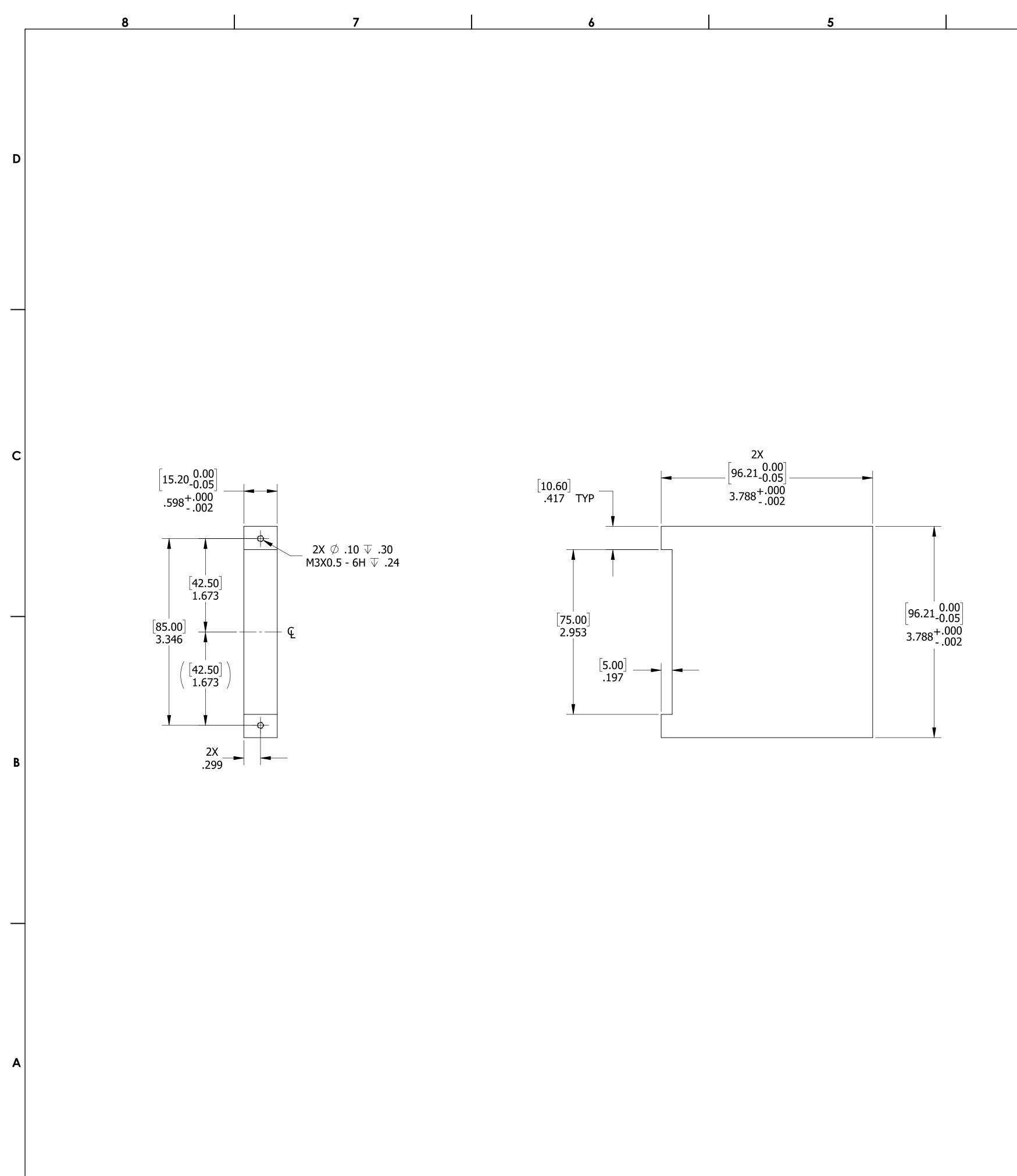


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### MATERIAL: CARBON STEEL

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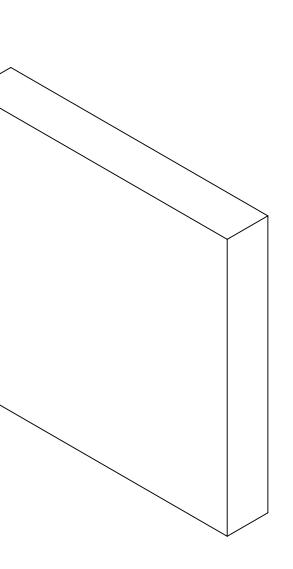
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1. QUANTITY: 3.

QUALITY VERIFICATIO						DATE					THIS DRAWING IS THE PROPERTY OF	
REQUIREMENTS DOCUM	ENTS			APPROV	ALS	DATE		1°	2		<b>RIDGE NATIONAL LABORATO</b> ATED FOR THE U.S. DEPARTMENT OF ENERGY UND	
MATERIAL MILL TEST REPORT	x		DES	EJ FOUNTA	IN	03/08/2023		J:E	∕		CONTRACT DE-AC05-00OR22725 OAK RIDGE, TN	
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTA	IN	03/08/2023		RSG		RE	EMOTE SYSTEMS GROU	Ρ
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE		03/24/2023						
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG			03/08/2023	-				EPIC	
HEAT TREAT REPORT		BREAK SHARP CORNERS AND		LJTOUNTA	111	03/00/2023					ER ASSEMBLY	
DIMENSIONAL REPORT			QA					СТЕ	_			
MATERIAL SELLER CERT		DEFAULT TOLERANCES						SIE		030	RBER PLATE, TAPPE	J
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°		I ITAL IGHT	2.34	96 LBS	SIZE	NEXT AS	SY		DWG NO.	REV
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005					$ \mathbf{D} $	EF	PIC-200		<b>EPIC-307</b>	0
NONCONFORMANCE REPORT	CONFORMANCE REPORT X DO NOT SCALE DRAW				dWorks		SCALE	1:1	NAME	STEE	EL ABSORBER PLATE, TAPP <b>EDEET</b>	1 of 1
	3			2							1	

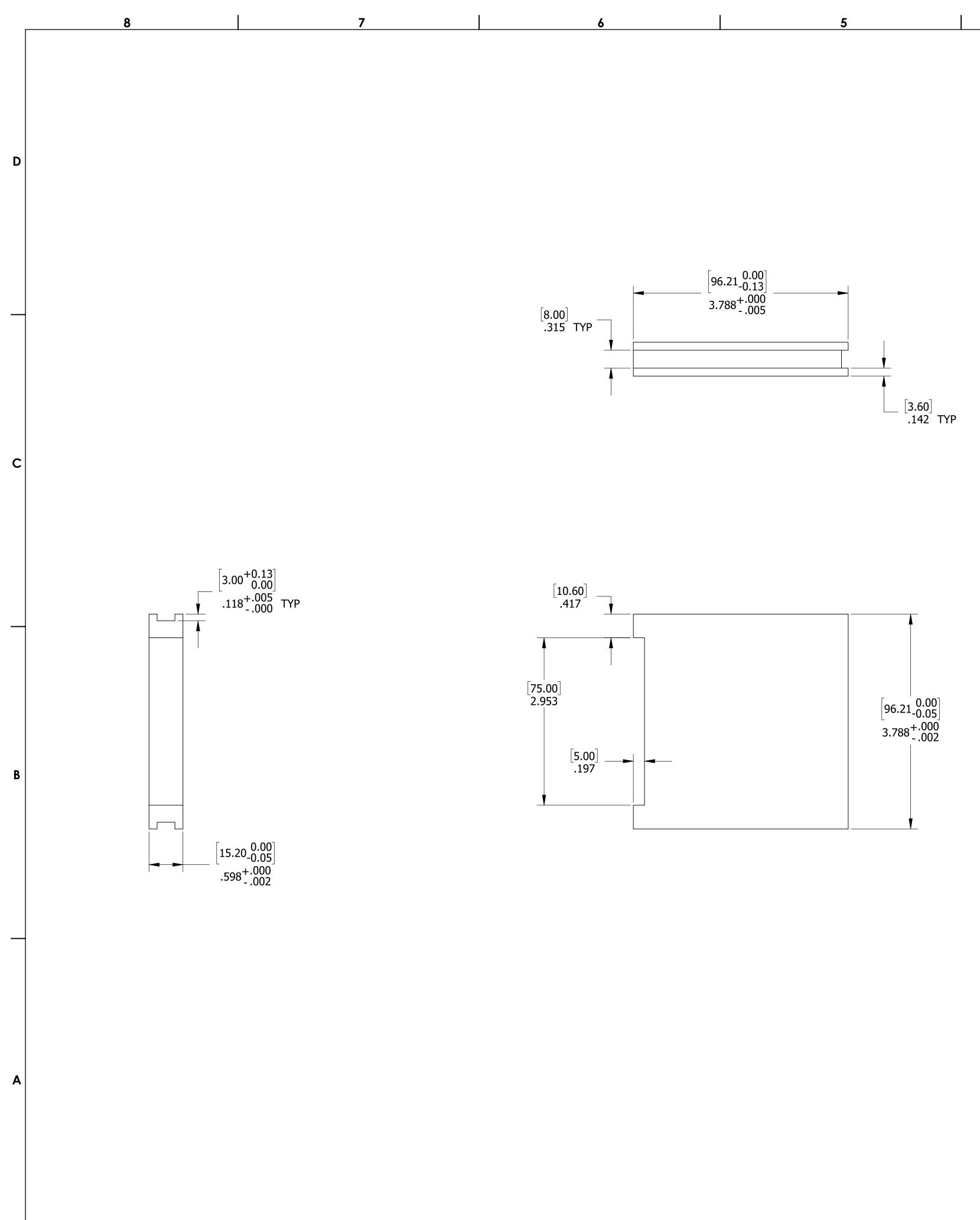
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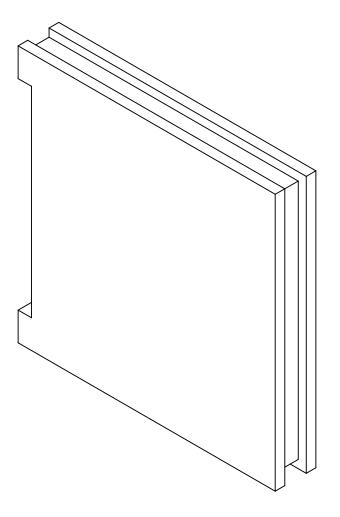
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### NOTES

1. QUANTITY: 4.

QUALITY VERIFICATIO REQUIREMENTS DOCUM	ON ENTS	+ THIRD-ANGLE		APPROVALS	DATE		I. A			THIS DRAWING IS THE PROPERTY OF <b>RIDGE NATIONAL LABORAT</b> STED FOR THE U.S. DEPARTMENT OF ENERGY U	
MATERIAL MILL TEST REPORT	x	PROJECTION	DES	EJ FOUNTAIN	03/07/2023		);=	∕		ONTRACT DE-AC05-00OR22725 OAK RIDGE, TN	
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/07/2023	з  Г	RSG		RE	MOTE SYSTEMS GRO	JP
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/24/2023						
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG		03/07/2023	-				EPIC	
HEAT TREAT REPORT		BREAK SHARP CORNERS AND			03/07/2023	2 		т	OW	ER ASSEMBLY	
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA				-	-			
MATERIAL SELLER CERT		DEFAULT TOLERANCES						UNG		I ABSORBER PLATE	
FUNCTIONAL TEST REPORT		LINEAR  ANGULAR X.X = ±.100 ±1/2°			701 LBS	SIZE	NEXT AS	SY		DWG NO.	REV
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005			PIC-200		EPIC-308	0			
NONCONFORMANCE REPORT	X	DO NOT SCALE DRAWING	1 '	SolidWork		SCALE	1:1	NAME	TUNG	STEN ABSORBER PLATE SHEET	1 of 1
	3			2						1	

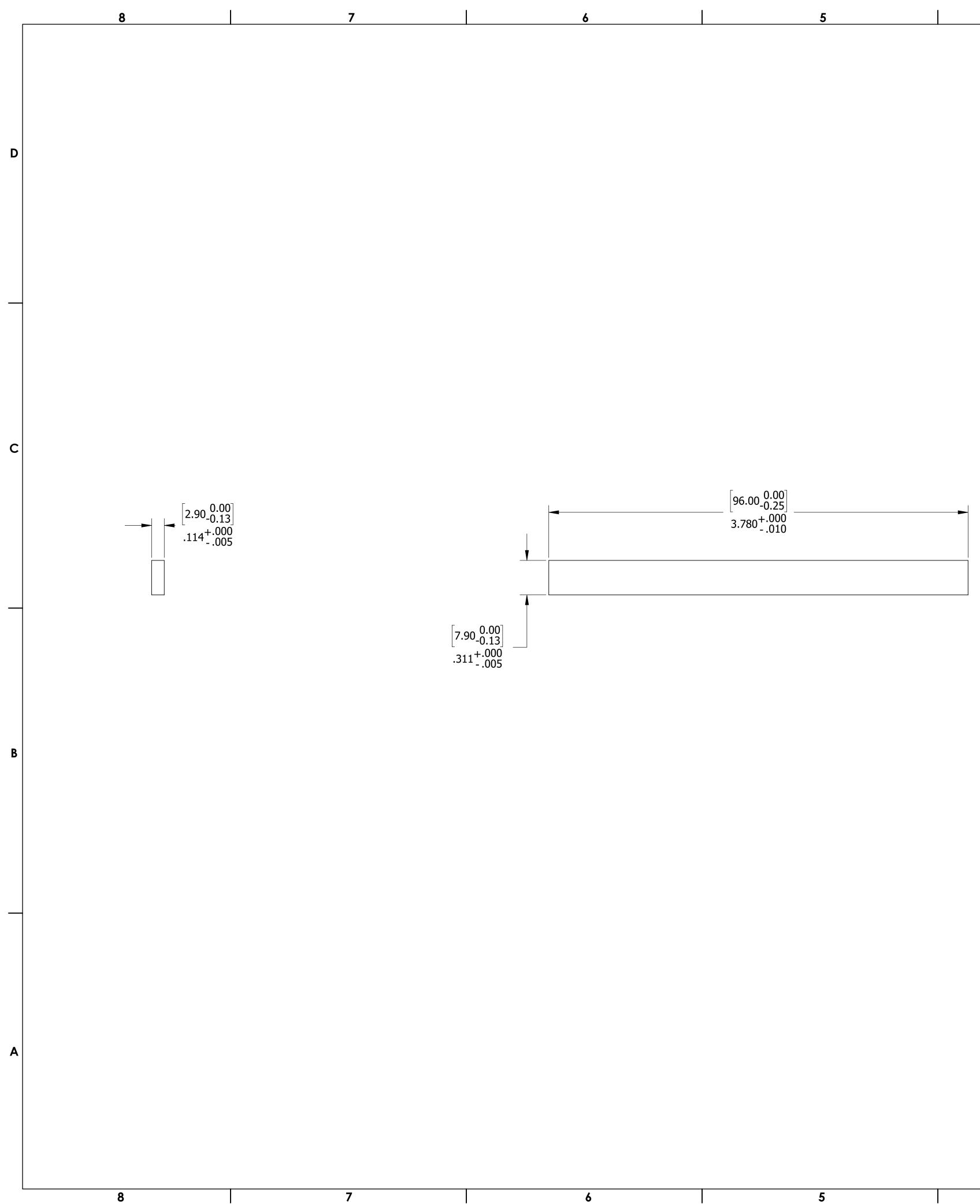
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### MATERIAL: TUNGSTEN (W 6Ni-4Cu)

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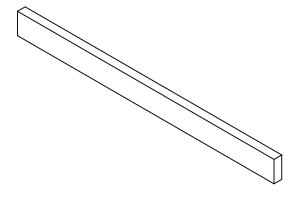


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### NOTES

1. QUANTITY: 8.

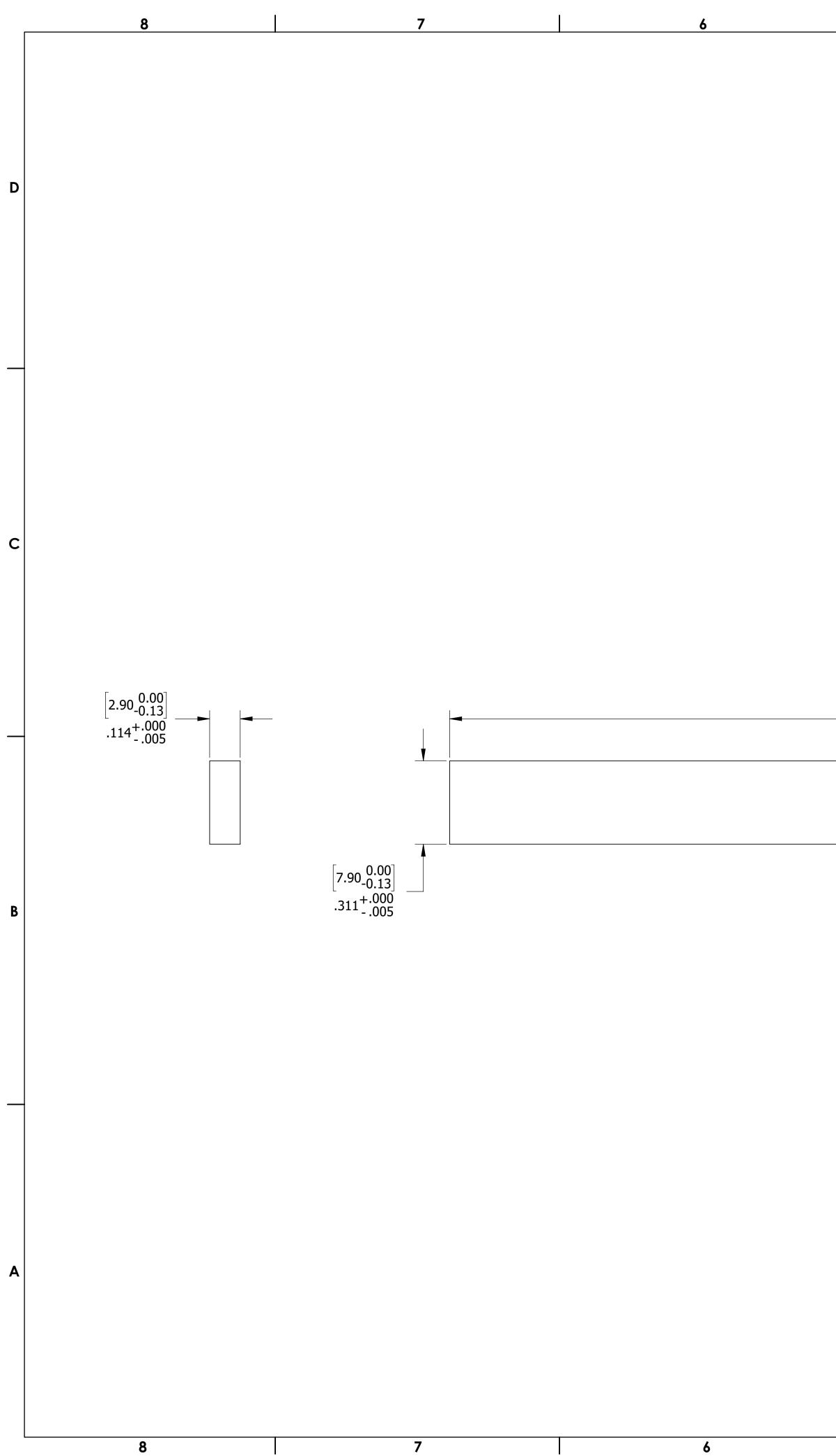
QUALITY VERIFICATIO REQUIREMENTS DOCUM		THIRD-ANGLE			DATE		Tollow .	2		IDGE	AWING IS THE <b>NATION</b> IE U.S. DEPART	L LAB	ORATO		
MATERIAL MILL TEST REPORT	x		DES	EJ FOUNTAIN	03/24/2023		<u>אי</u> ₽י∕	∕			E-AC05-00OR22				Shim
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/24/2023		BSG		RE/	ΛΟΤΕ	E SYSTI	EMS	GROL	JP	
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/24/2023										Plate
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG	EJ FOUNTAIN	03/24/2023					EP]	I <b>C</b>				ber
HEAT TREAT REPORT		BREAK SHARP CORNERS AND	ENG		03/24/2023	'		т	OWE	R AS	SEMB	LY			Absorber
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA					LONG SHIM							
MATERIAL SELLER CERT		DEFAULT TOLERANCES							LU	NG	SHIM				4
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°			78 LBS	SIZE	NEXT ASS	SY	1	DWG NO			_	REV	
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005	THIS DRAWING PRODUCED USING				EP	IC-200			EPIC	-30	9	0	D FIL
NONCONFORMANCE REPORT	X	DO NOT SCALE DRAWING				SCALE	2:1	NAME	LONG	SHIM			SHEET	1 of 1	CAL
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NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABLITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

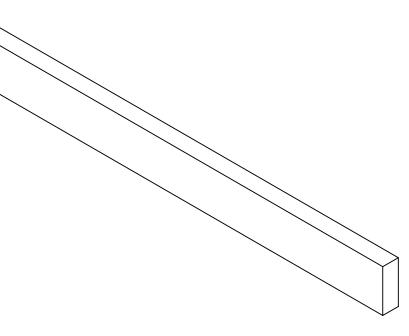
### NOTES

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QUALITY VERIFICATION REQUIREMENTS DOCUMENTS		THIRD-ANGLE		APPROVALS				2	THIS DRAWING IS THE PROPERTY OF OAK RIDGE NATIONAL LABORATORY OPERATED FOR THE U.S. DEPARTMENT OF ENERGY UNDER			
MATERIAL MILL TEST REPORT	x		DES	EJ FOUNTAIN	03/24/2023	$ \bigcirc$	₽₽	∕		CONTRACT DE-AC05-00OR22725 OA		
LEAK TEST REPORT		UNLESS OTHERWISE NOTED	DRW	EJ FOUNTAIN	03/24/2023	R	SG		RE	EMOTE SYSTEMS	GROU	Ρ
CLEANING CERT		DIMENSIONS ARE IN INCHES	СНК	JP SLADE	03/24/2023							
WELD / BRAZE INSPECTION REPORT		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M	ENG	EJ FOUNTAIN	03/24/2023					EPIC		
HEAT TREAT REPORT		BREAK SHARP CORNERS AND		LITOURIAIN	05/21/2025	-		٦	<b>WO</b>	ER ASSEMBLY		
DIMENSIONAL REPORT		REMOVE ALL BURRS	QA					-	· · · · ·			
MATERIAL SELLER CERT		DEFAULT TOLERANCES							Эг	IORT SHIM		
FUNCTIONAL TEST REPORT		LINEAR ANGULAR X.X = ±.100 ±1/2°		TOTAL 0.0355 LBS SIZE NEXT ASSY		Y		DWG NO.		REV		
DEVIATION REQUEST	X	X.XX = ±.010 X.XXX = ±.005	THIS DRAWING PRODUCED USING					IC-300		EPIC-31	L <b>O</b>	0
NONCONFORMANCE REPORT	x	DO NOT SCALE DRAWING			SCALE 4:1 NAME		SHOF	RT SHIM	SHEET	1 of 1		
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