

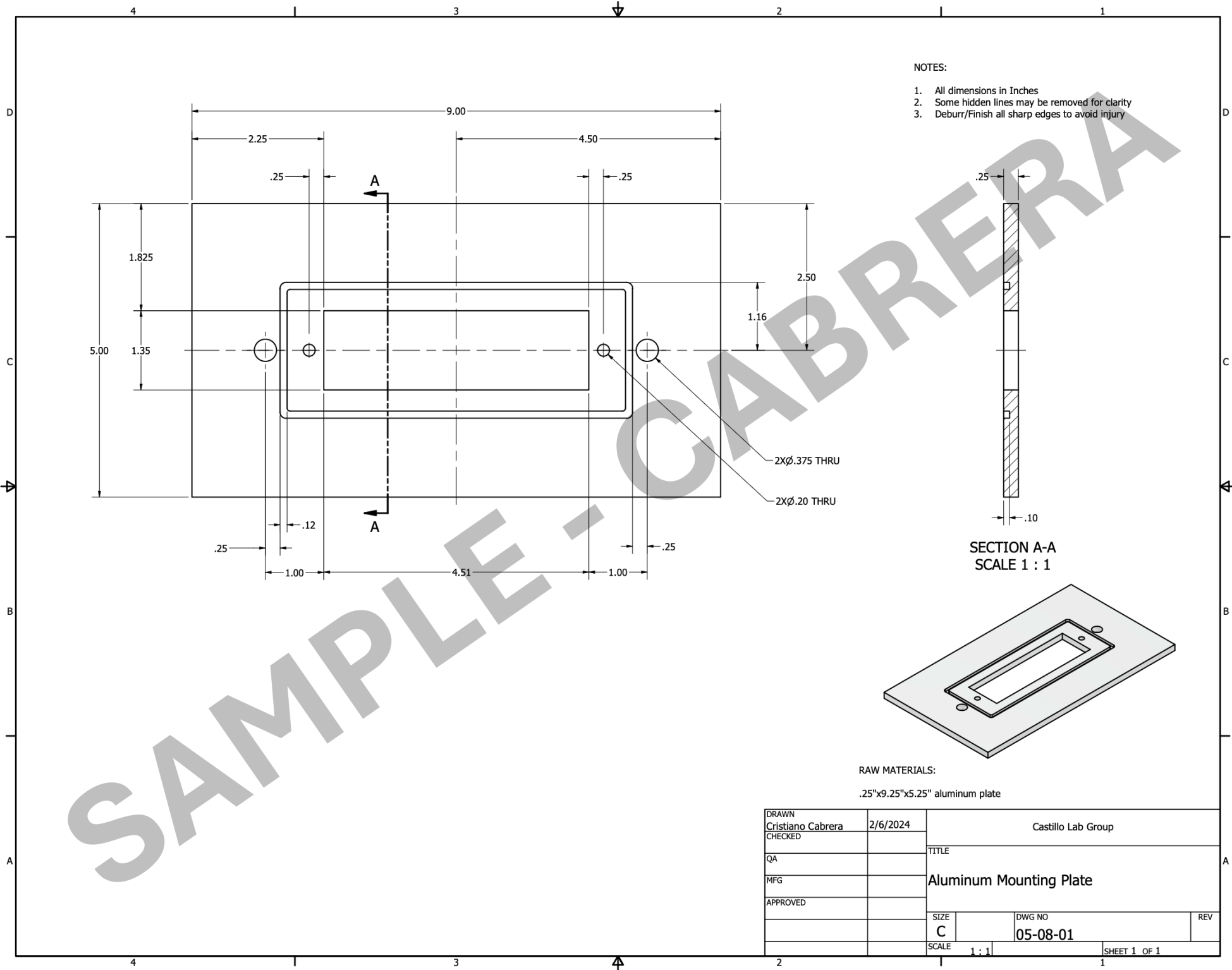
Assembly Instructions

1. Place O-Ring into rectangular slot on 05-08-01
2. Align threaded holes on base of 05-08-03 to larger holes towards outside of 05-08-01
3. Set two of piece 98164A457 through the larger holes on 05-08-01 and screw them into the threaded holes of 05-08-03
4. Set 05-08-02B on top of 05-08-03 with threaded holes of 05-08-02B aligned with corresponding holes on 05-08-03, resting an O-Ring into the slot such that it hugs the perimeter of the slot around all the pressure tap holes
5. Through rectangular hole on 05-08-01, insert six of piece 98164A457 through the six outer holes of 05-08-03 and screw into threaded holes of 05-08-02B

For first assembly:

Through rectangular hole of 05-08-01, press one 8967K86 piece into each of the eleven holes exposed on bottom of 05-08-03 until they can't go further into 05-08-02B, using epoxy to hold the tubes in place

5	11	8967K86	Purchased Tubes - Copper Tube - McMaster Carr
4	8	98164A457	Purchased Screws - UNC 10-24 2A - McMaster Carr
3	1	05-08-03	Aluminum block that connects sample block to base plate
2	1	05-08-02B	Aluminum block for holding samples with pressure taps drilled through it
1	1	05-08-01	Aluminum base plate that mounts test section to Purdue ASL Supersonic Tunnel
ITEM	QTY	PART NUMBER	DESCRIPTION
PARTS LIST			
DRAWN	Cristiano Cabrera		2/8/2024
CHECKED			Castillo Lab Group
QA			TITLE
MFG			Supersonic Interchangeable Test Section
APPROVED			SIZE
			DWG NO
			REV
			SCALE
			1 : 1
			SHEET 1 OF 1



NOTES:

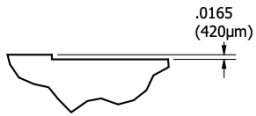
1. All dimensions in Inches
2. Some hidden lines may be removed for clarity
3. Deburr/Finish all sharp edges to avoid injury

SECTION A-A
SCALE 1 : 1

RAW MATERIALS:

.25"x9.25"x5.25" aluminum plate

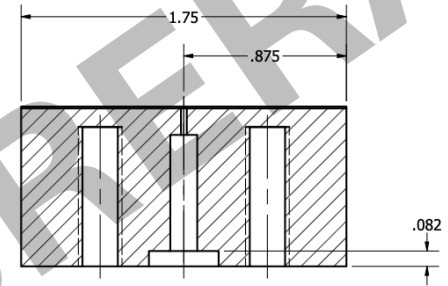
DRAWN Cristiano Cabrera	2/6/2024	Castillo Lab Group		
CHECKED		TITLE		
QA		Aluminum Mounting Plate		
MFG				
APPROVED				
		SIZE C	DWG NO 05-08-01	REV
		SCALE 1 : 1	SHEET 1 OF 1	



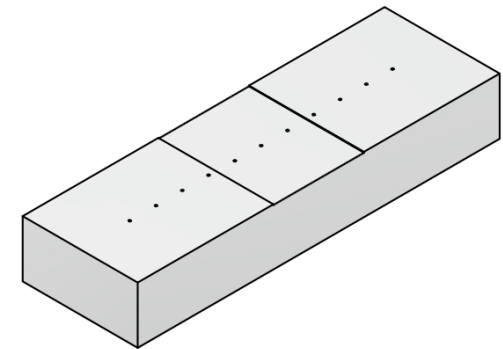
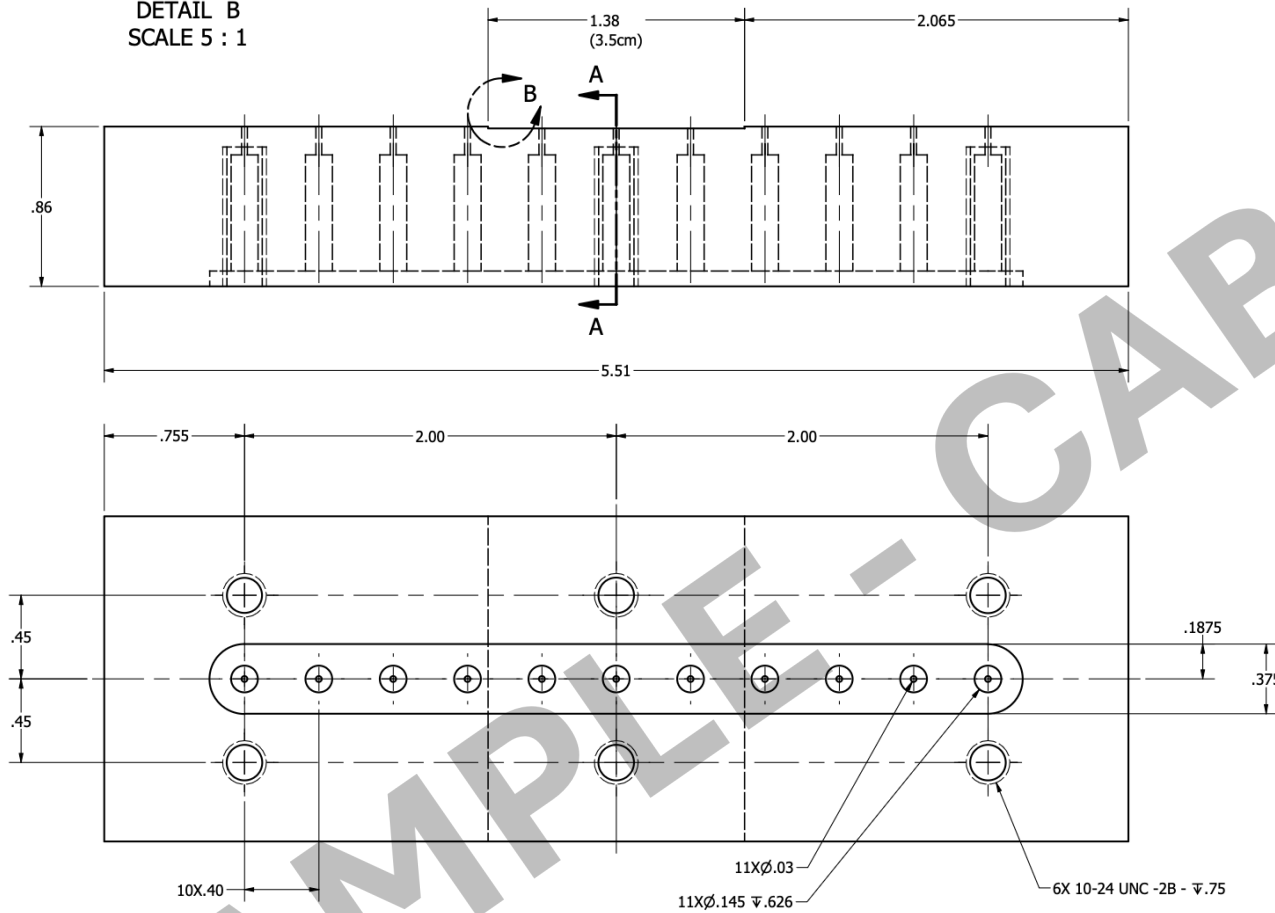
DETAIL B
SCALE 5 : 1

NOTES:

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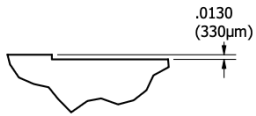
SECTION A-A
SCALE 2 : 1



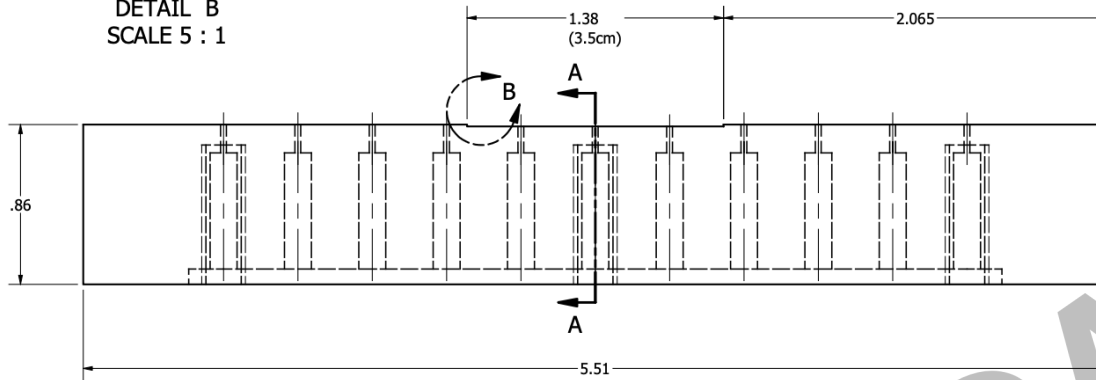
RAW MATERIALS:

1"x2"x5.75" aluminum block

DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group	
CHECKED		TITLE	
QA		Aluminum Sample Block - Low - Centered	
MFG			
APPROVED			
		SIZE C	DWG NO 05-08-02B-C-L
		SCALE 2 : 1	REV
			SHEET 1 OF 1

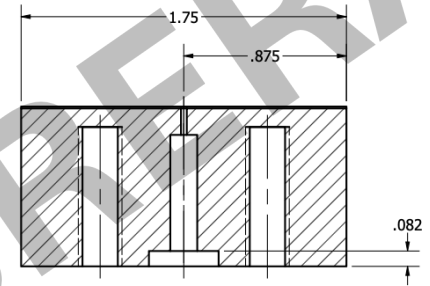


DETAIL B
SCALE 5 : 1

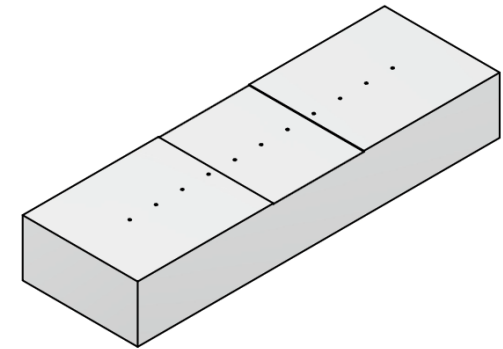
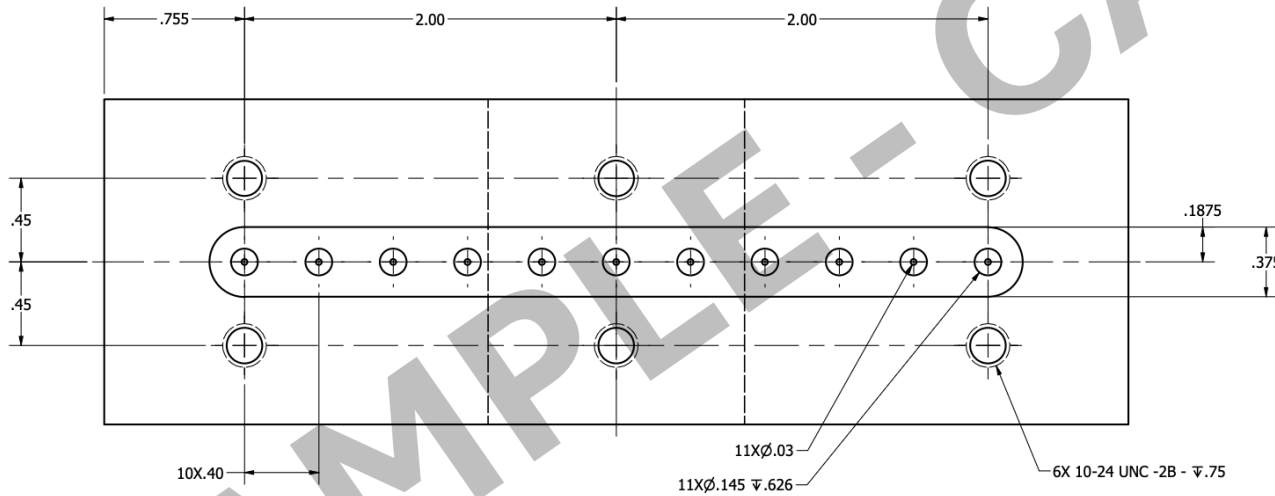


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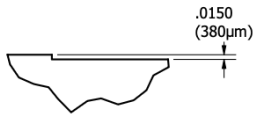
SECTION A-A
SCALE 2 : 1



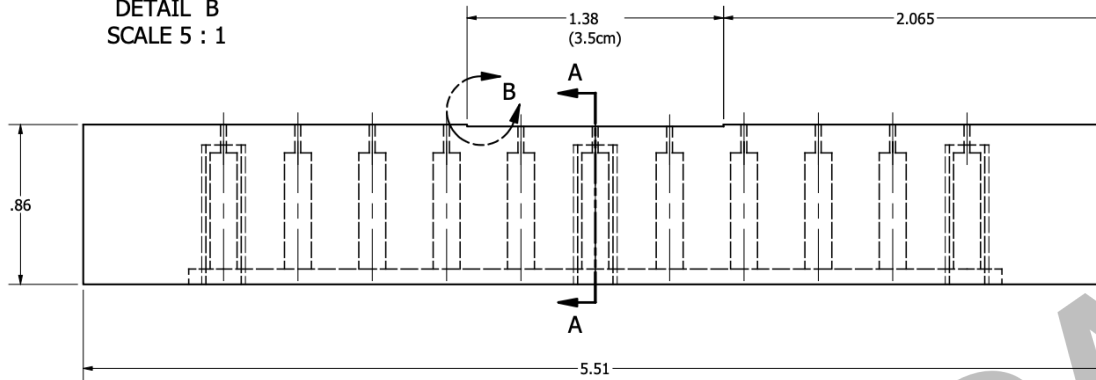
RAW MATERIALS:

1"x2"x5.75" aluminum block

DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group		
CHECKED		TITLE		
QA		Aluminum Sample Block - Medium - Centered		
MFG				
APPROVED				
		SIZE C	DWG NO 05-08-02B-C-M	REV
		SCALE 2 : 1	SHEET 1 OF 1	

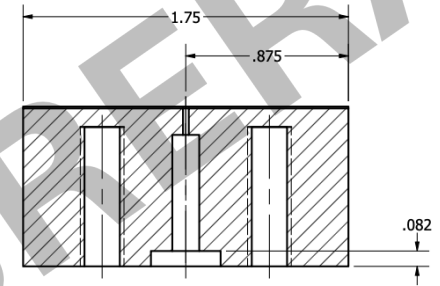


DETAIL B
SCALE 5 : 1

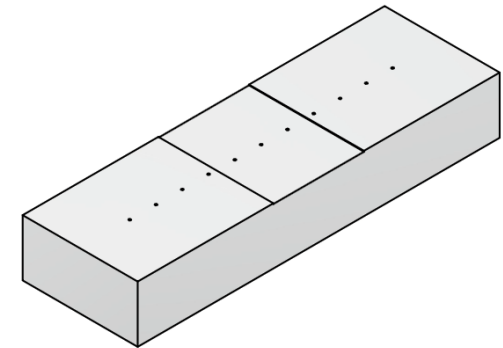
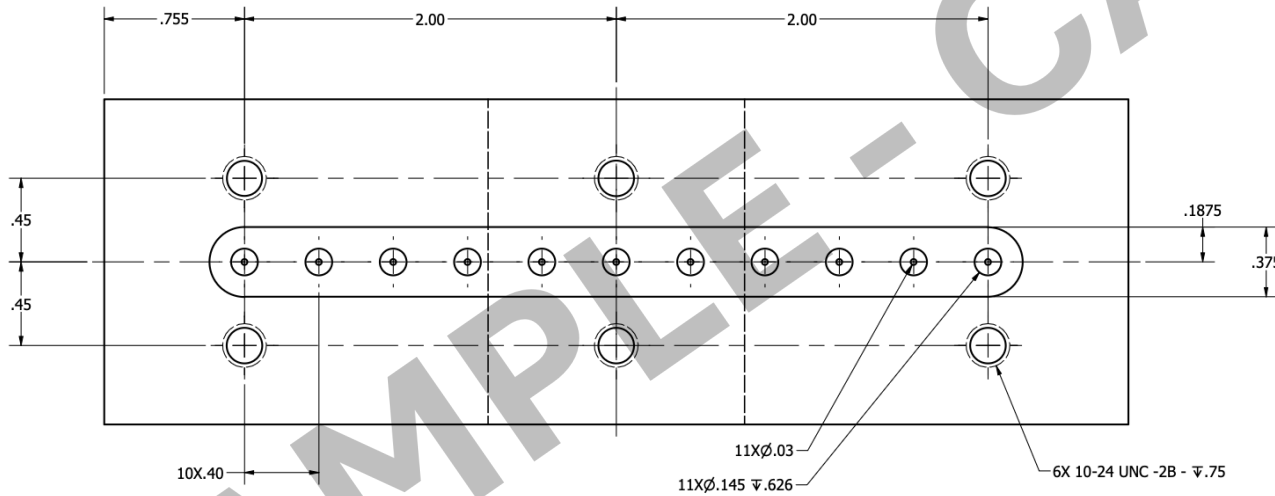


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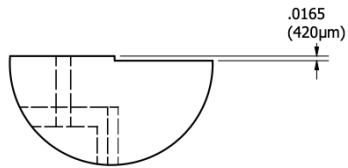
SECTION A-A
SCALE 2 : 1



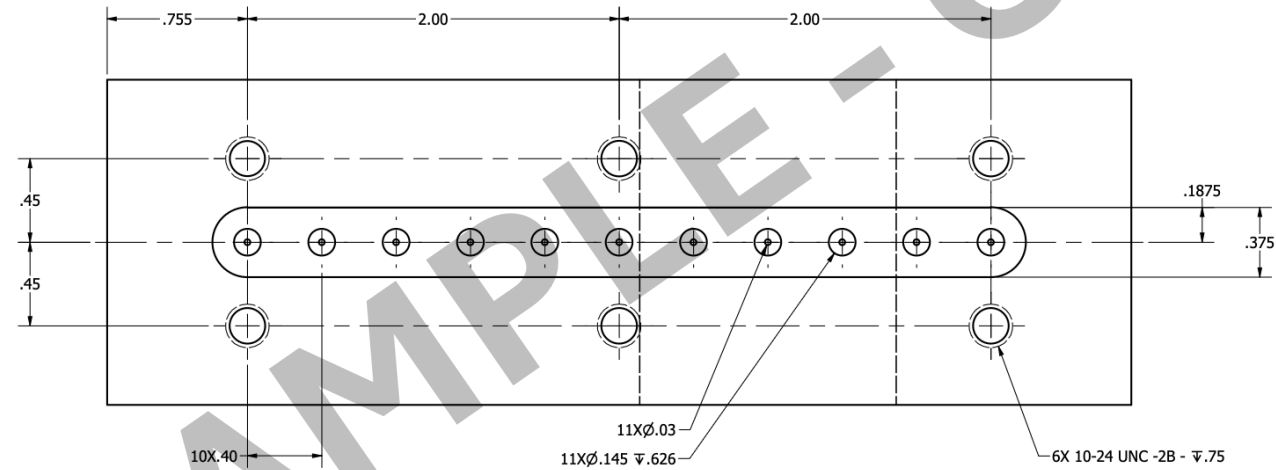
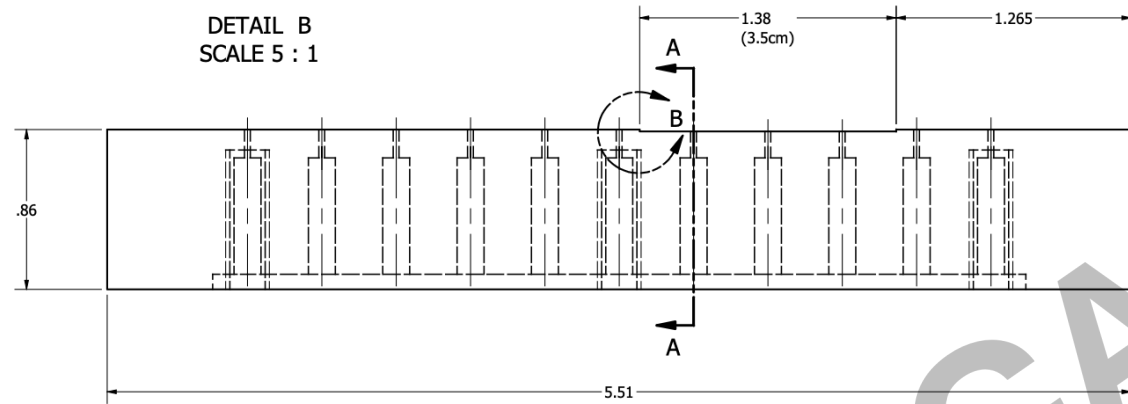
RAW MATERIALS:

1"x2"x5.75" aluminum block

DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group		
CHECKED		TITLE		
QA		Aluminum Sample Block - High - Centered		
MFG				
APPROVED				
		SIZE C	DWG NO 05-08-02B-C-H	REV
		SCALE 2 : 1	SHEET 1 OF 1	

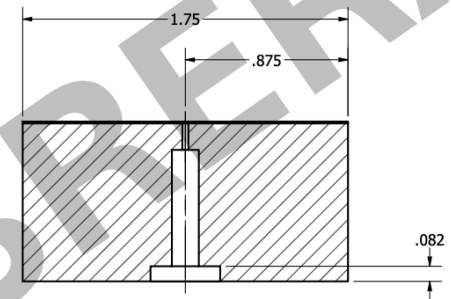


DETAIL B
SCALE 5 : 1

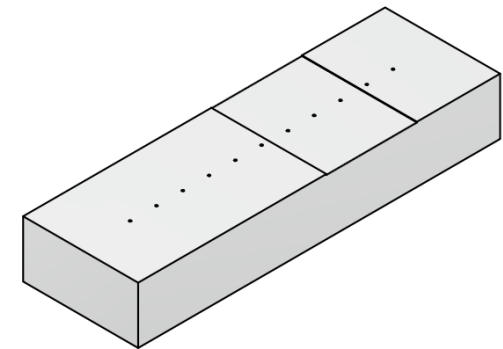


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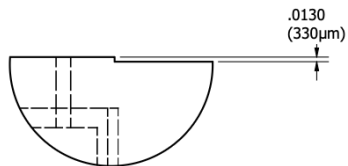
SECTION A-A
SCALE 2 : 1



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1"x2"x5.75" aluminum block

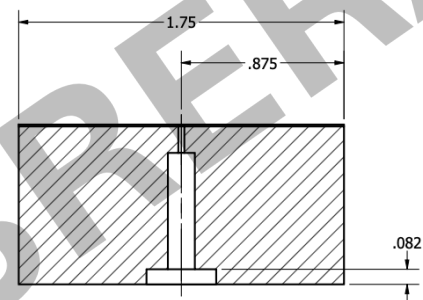
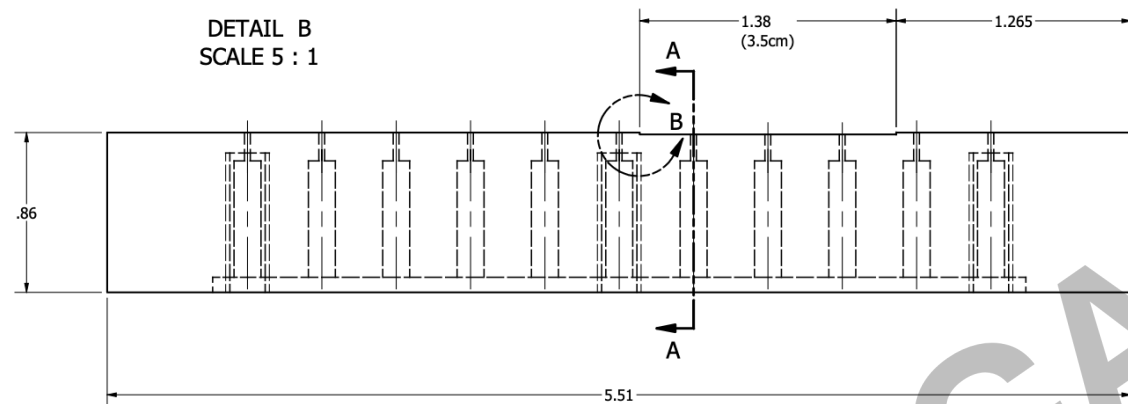
DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group	
CHECKED		TITLE	
QA		Aluminum Sample Block - Low -	
MFG		Leading/Trailing	
APPROVED		REV	
		SIZE	DWG NO
		C	05-08-02B-LT-L
		SCALE	SHEET 1 OF 1
		2 : 1	



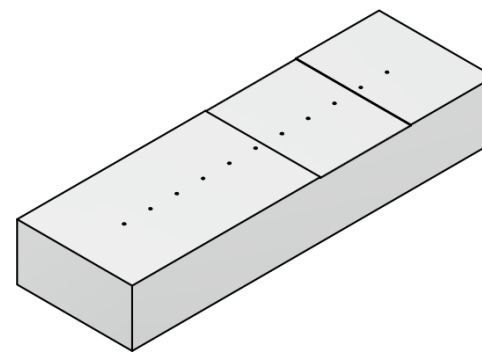
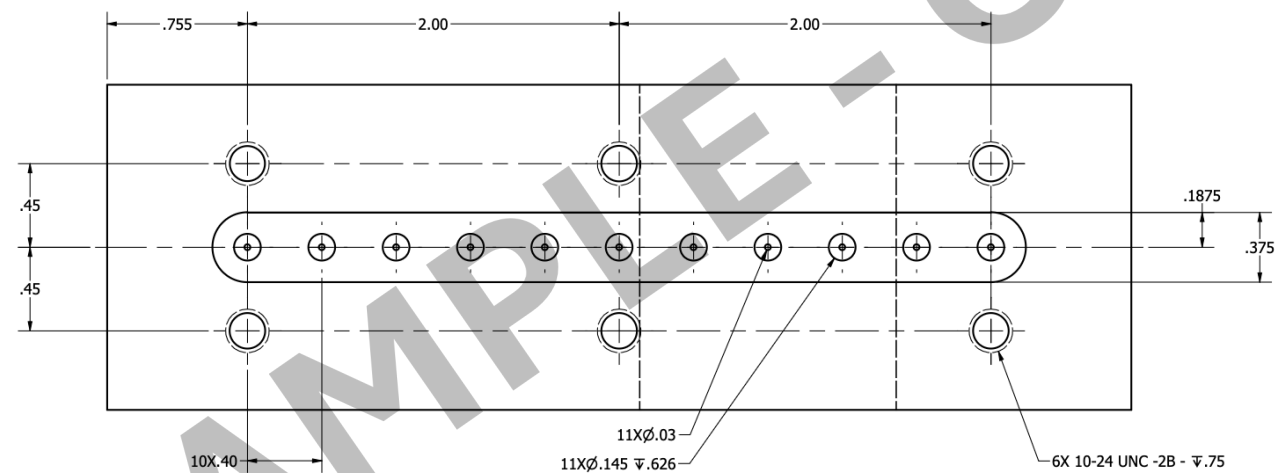
DETAIL B
SCALE 5 : 1

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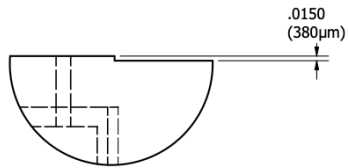
SECTION A-A
SCALE 2 : 1



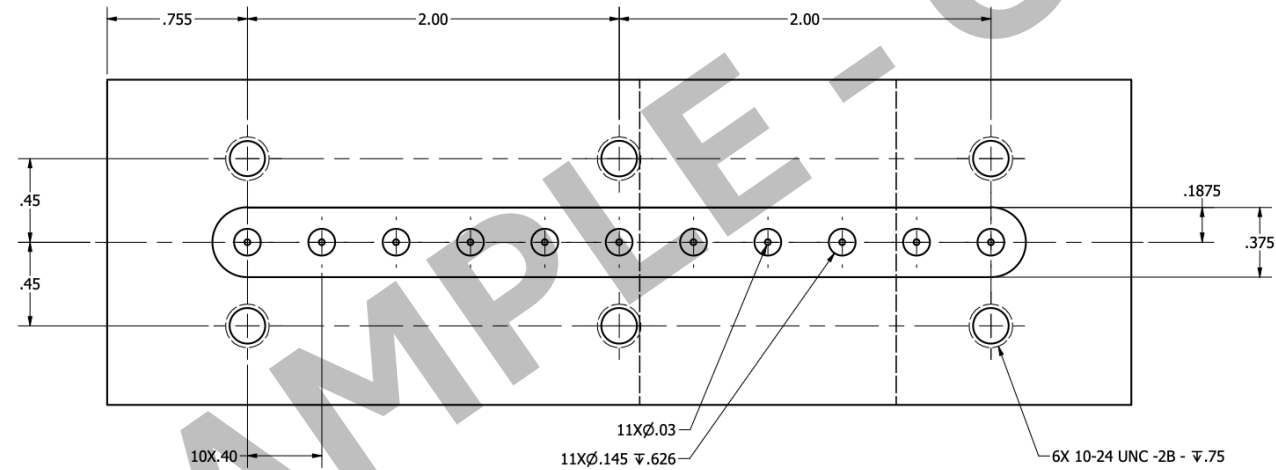
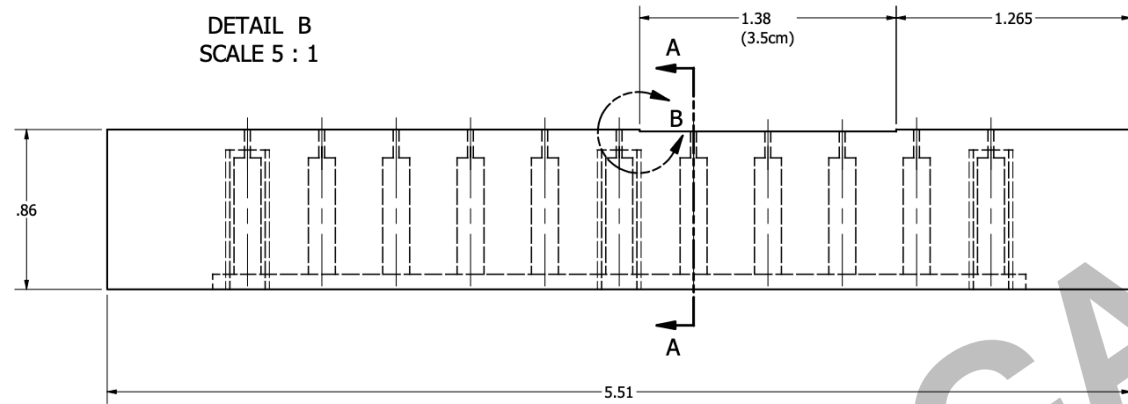
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1"x2"x5.75" aluminum block

DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group	
CHECKED		TITLE	
QA		Aluminum Sample Block - Medium -	
MFG		Leading/Trailing	
APPROVED		REV	
		SIZE	DWG NO
		C	05-08-02B-LT-M
		SCALE	SHEET 1 OF 1
		2 : 1	

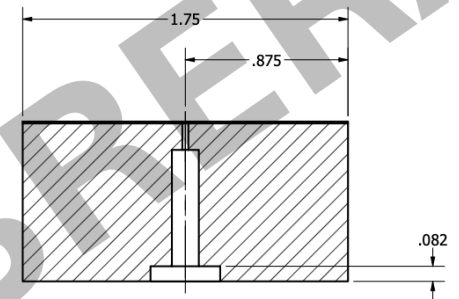


DETAIL B
SCALE 5 : 1

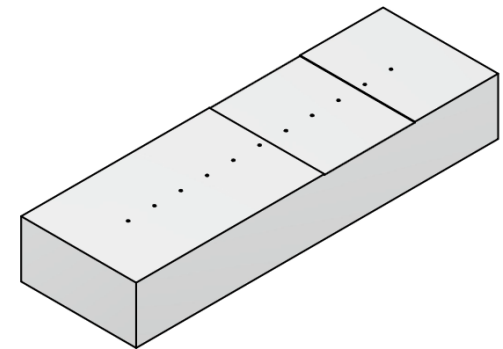


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SECTION A-A
SCALE 2 : 1



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DRAWN Cristiano Cabrera	5/6/2024	Castillo Lab Group	
CHECKED		TITLE	
QA		Aluminum Sample Block - High -	
MFG		Leading/Trailing	
APPROVED		REV	
		SIZE	DWG NO
		C	05-08-02B-LT-H
		SCALE	SHEET 1 OF 1
		2 : 1	