

# Appendix C:

## Fabrication Specifications

ECE 492 - Spring 2016

### [Accumulator](#)

[Accumulator Mechanical](#)

[PacMan Gerber Plots](#)

[Front Copper](#)

[Back Copper](#)

[Front Mask](#)

[Back Mask](#)

[Front Silk](#)

[Back Silk](#)

[Edge Cuts](#)

[Control Panel Gerber Plots](#)

[Front Copper](#)

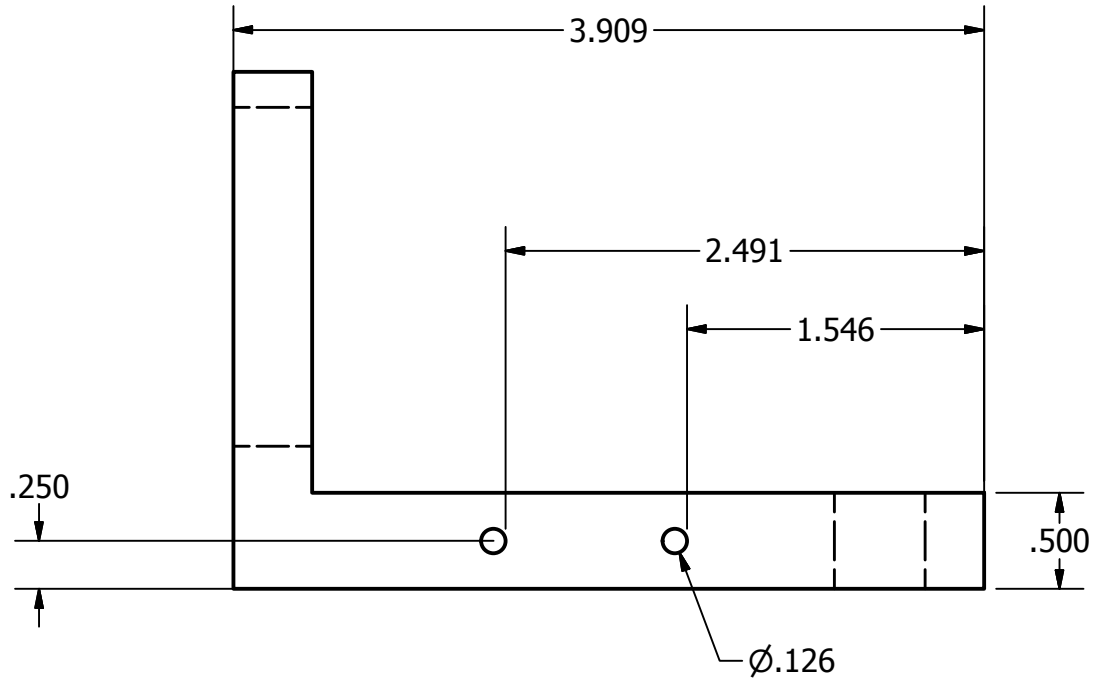
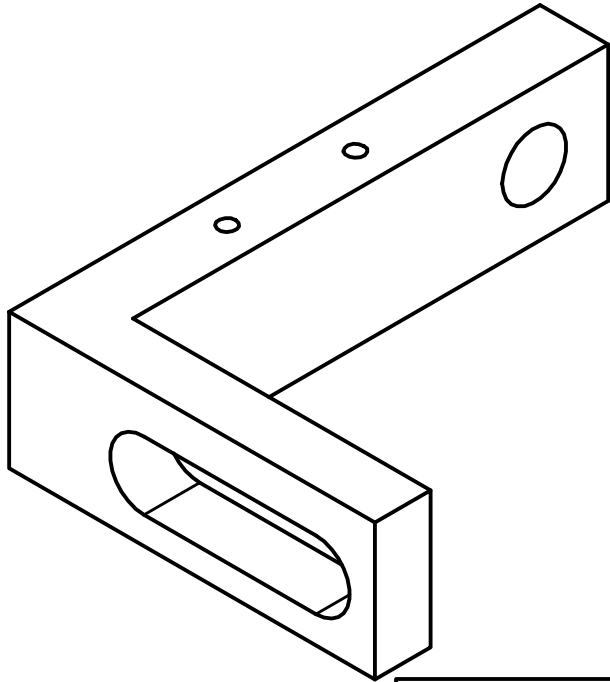
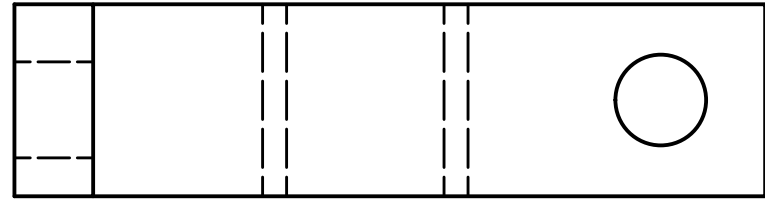
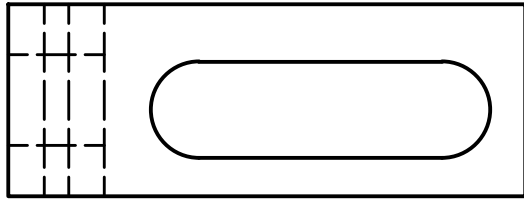
[Back Copper](#)

[Front Mask](#)

[Back Mask](#)

[Front Silk](#)

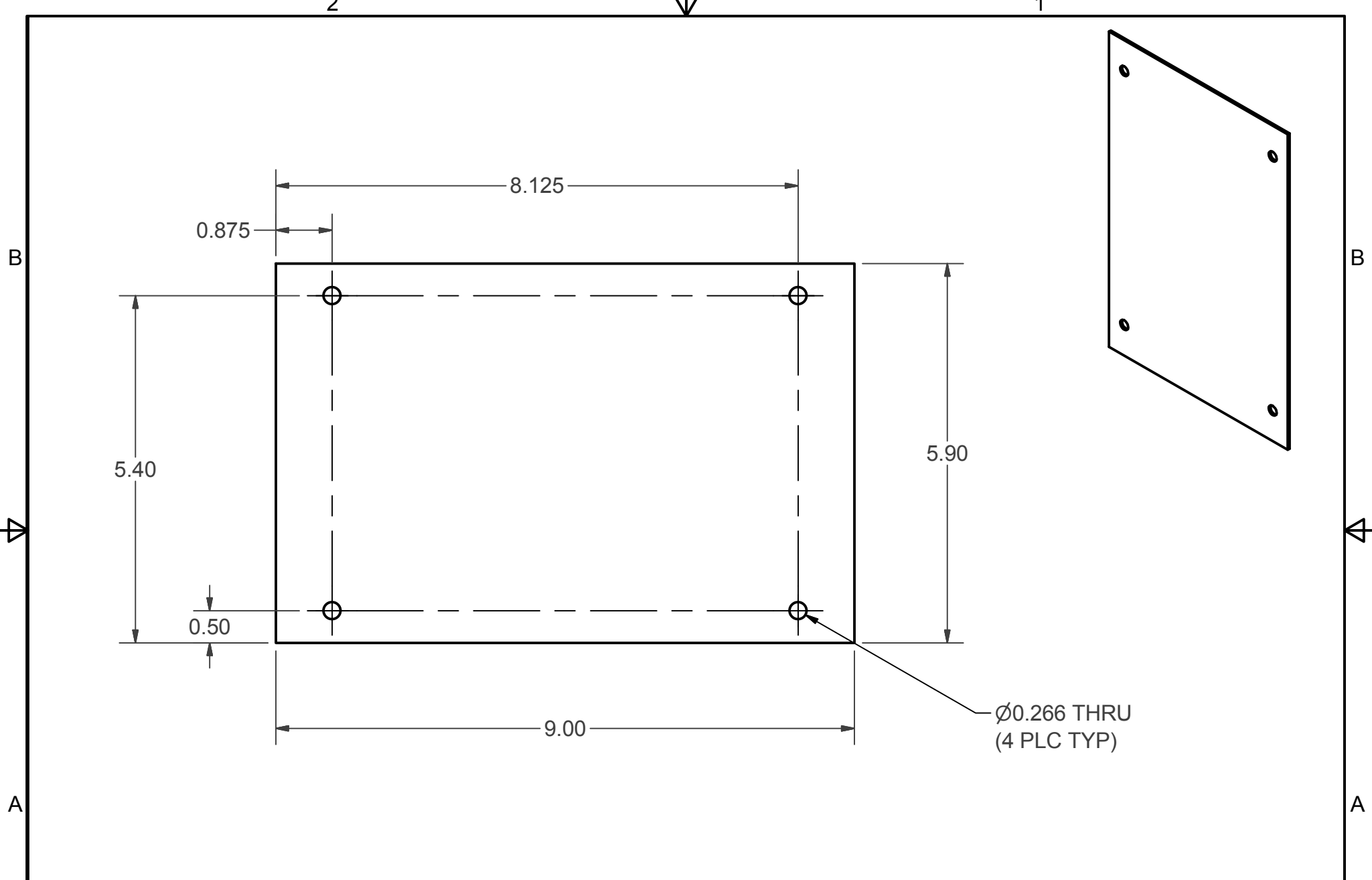
[Edge Cuts](#)



DRAWN		3/1/2016
murrc		
CHECKED		
QA		
MFG		
APPROVED		

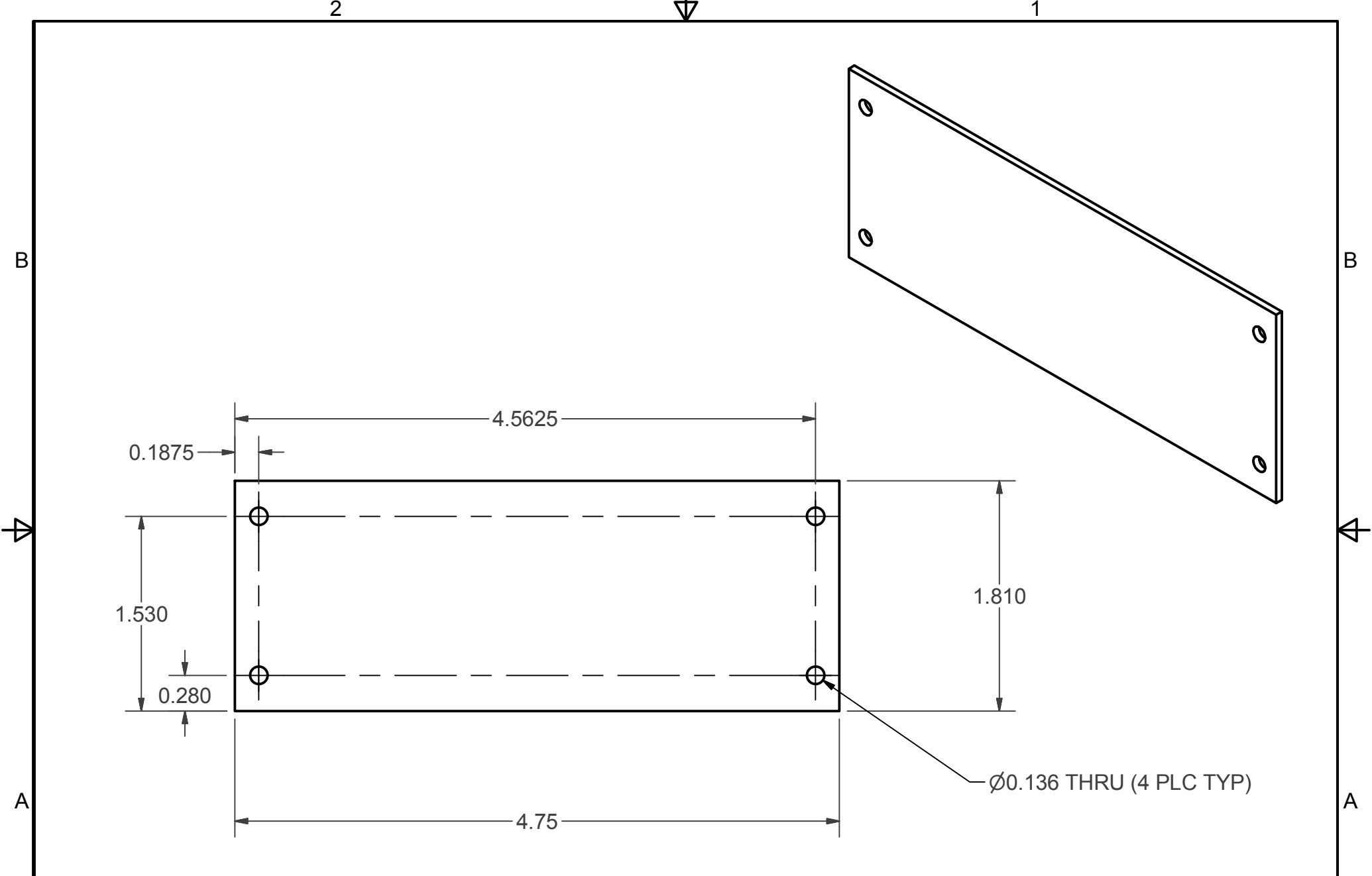
TITLE		
Add .126 in thru-holes as dimensioned in drawing		
SIZE	DWG NO	REV
A	AirsConnectorBridge15(2)	

SCALE	1:1	SHEET 1 OF 1
-------	-----	--------------



Ø0.266 THRU  
(4 PLC TYP)

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1/16 INCH 6061 ALUM. SHEET
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 2	FILENAME L16-TSV-22.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-22.1	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:2 DATE: 4/23/2015



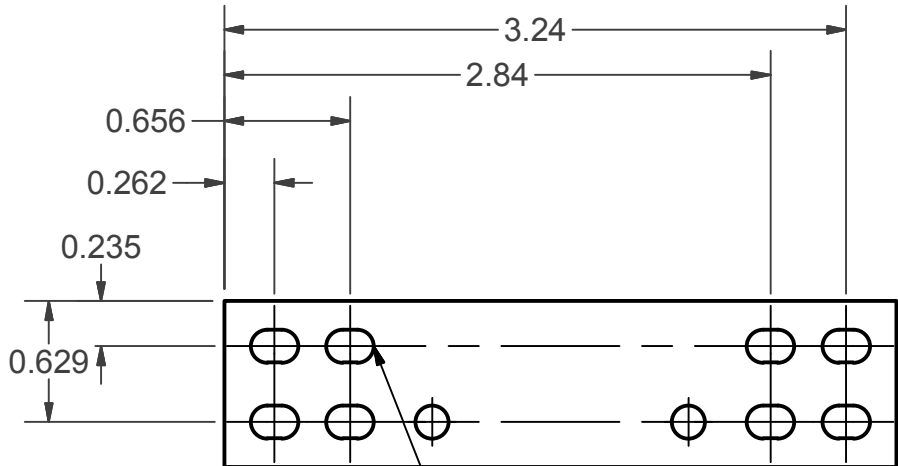
TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1/16 INCH STAINLESS SHEET
3 PLACE DECIMAL: +/- .001		DWG.#: REV.
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME LCD Cover Plate.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-23.1	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 5/6/2015

2

1

B

B



Modify existing part by converting sets of four existing holes to slots as indicated. (Current holes make outside edge of slot with correct radius)

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

A

A

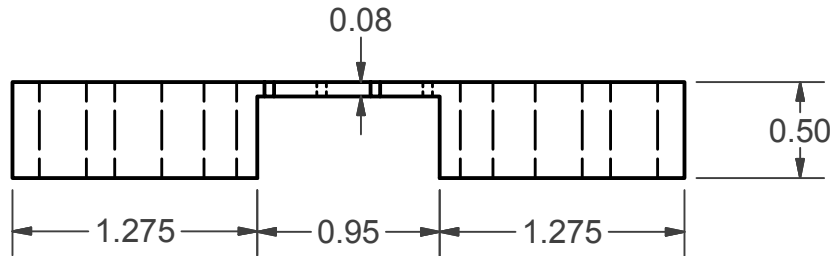
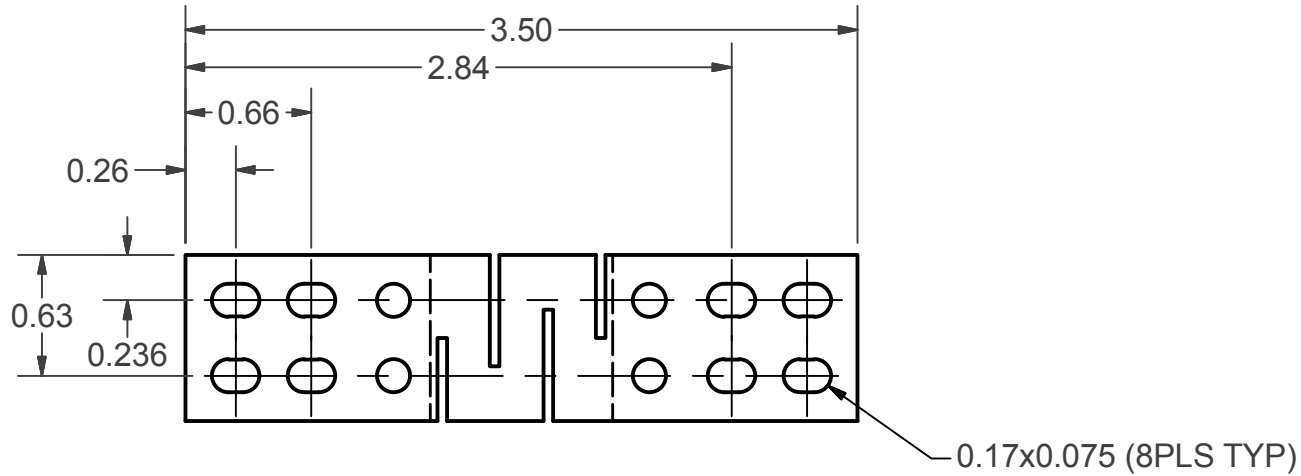
TOLERANCE EXCEPT AS NOTED:	Aluminum Jumper Slotted	MATERIAL: Old version (Provided)
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-34.1      REV.10
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 6	FILENAME L16-TSV-34.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-34	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1      DATE: 3/15/16

2

1



Modify existing part by making the center cut-out wider to be 0.95" wide and 1.275" from each side.  
 Slots are added to the top to replace the holes. The old holes should line up with the outer-most edge of each slot.



**Approval**

Drawn by: \_\_\_\_\_

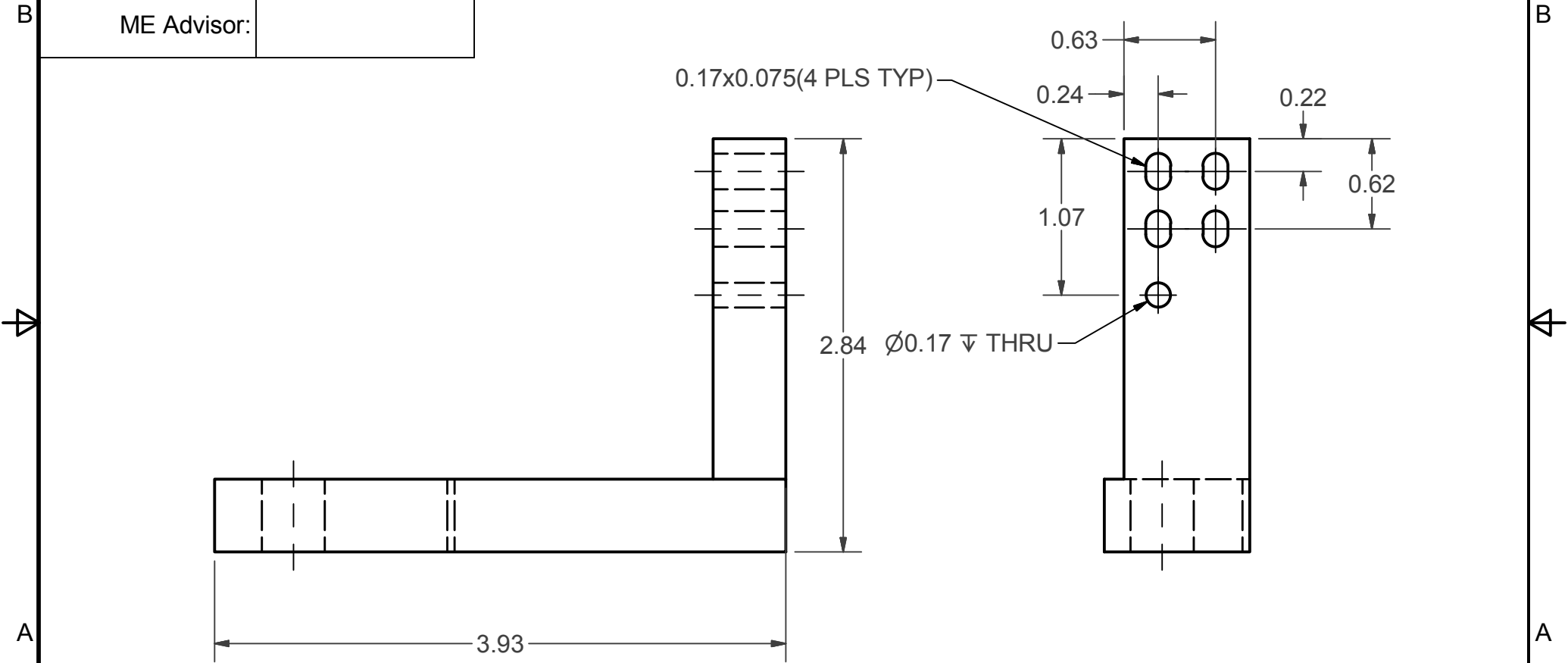
Group: \_\_\_\_\_

ME: \_\_\_\_\_

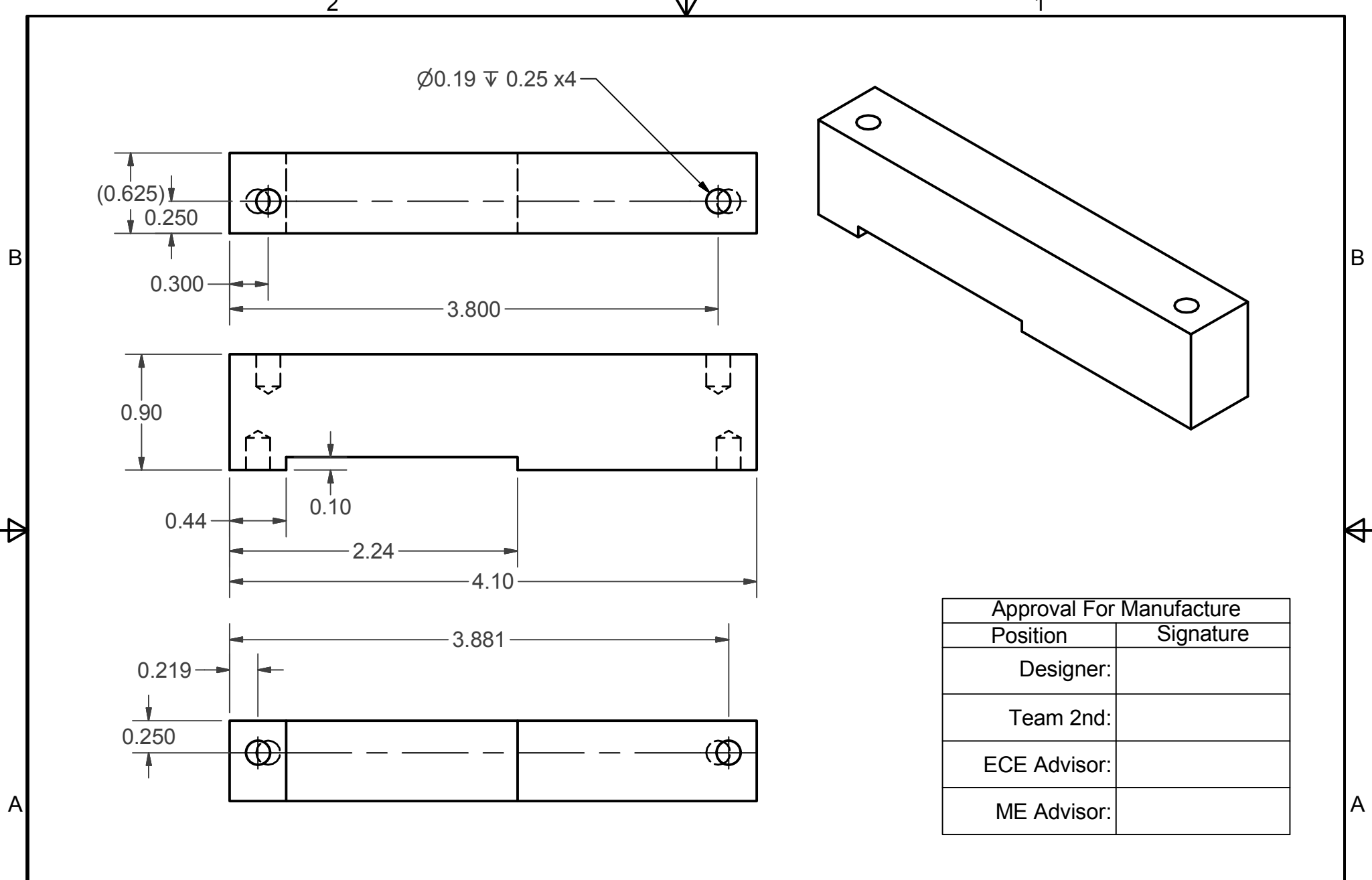
ECE: \_\_\_\_\_

TOLERANCE EXCEPT AS NOTED:		MATERIAL:
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-35 REV.
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME UConnectorStrap.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-35	DRAWN BY: Kailan Ottaway
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 4/28/15

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

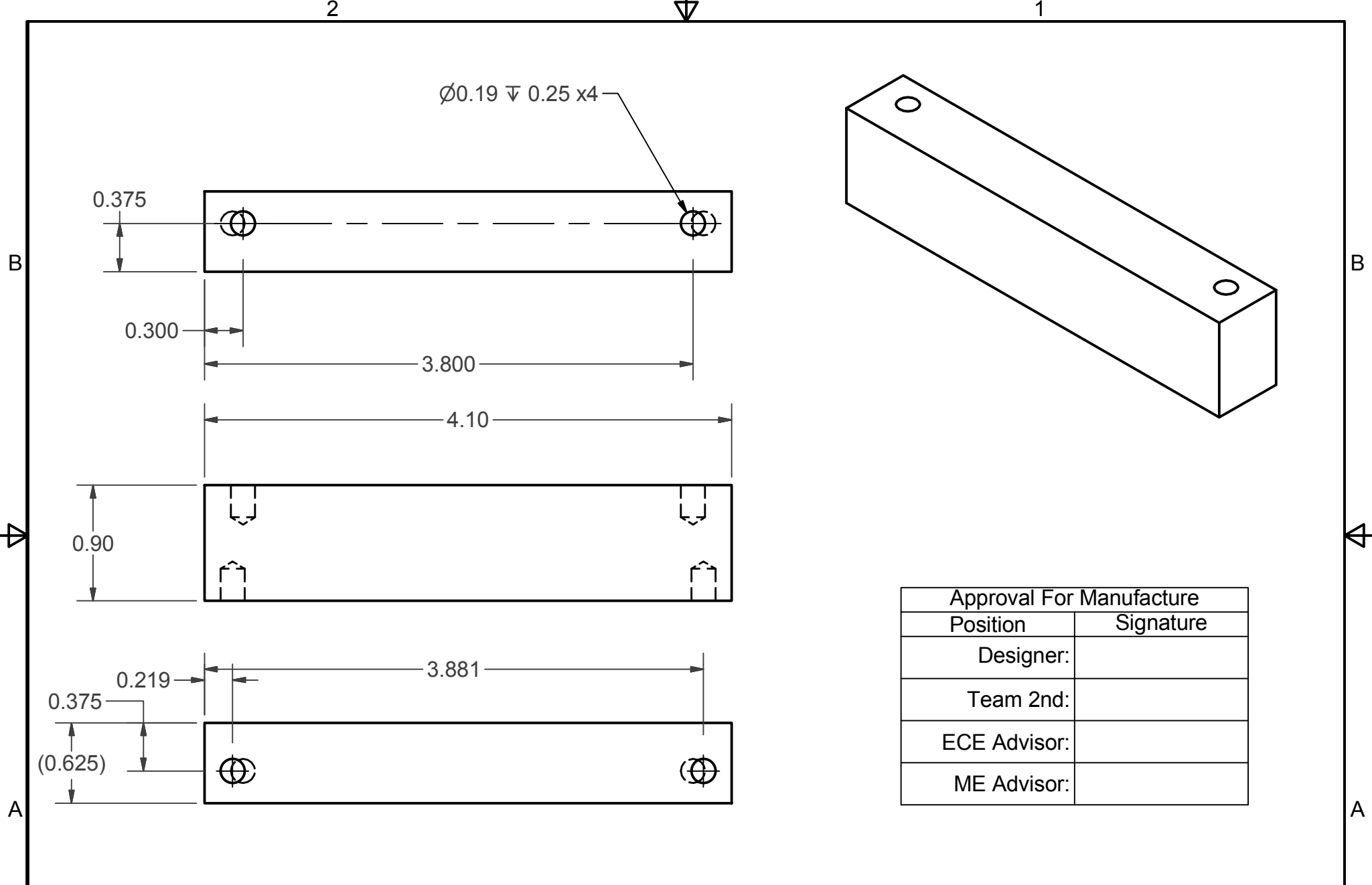


TOLERANCE EXCEPT AS NOTED:		MATERIAL: Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-36 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-36.0.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-36	DRAWN BY: Kailan Ottaway
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 5/7/15



TOLERANCE EXCEPT AS NOTED:	LCD Bracket Milled	MATERIAL: 0.9 x 4.1 x 5/8" Garolite
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-38.1 REV.10
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-38.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-38	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 5/6/15

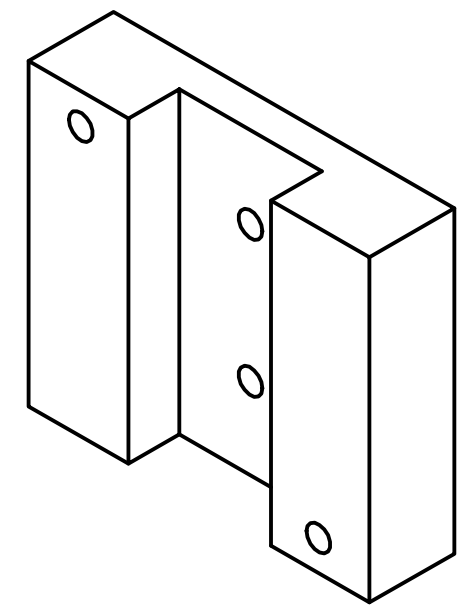
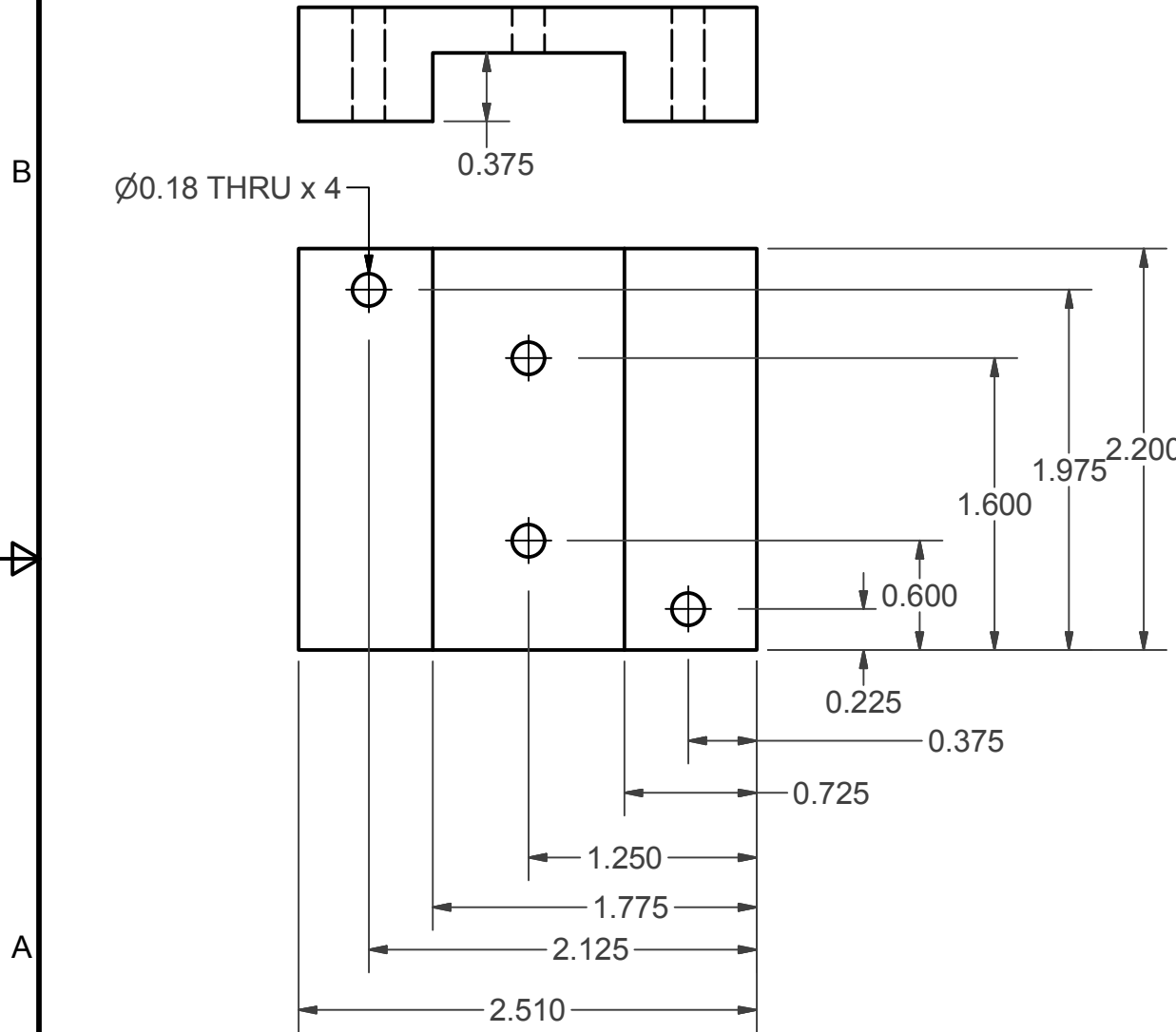




Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

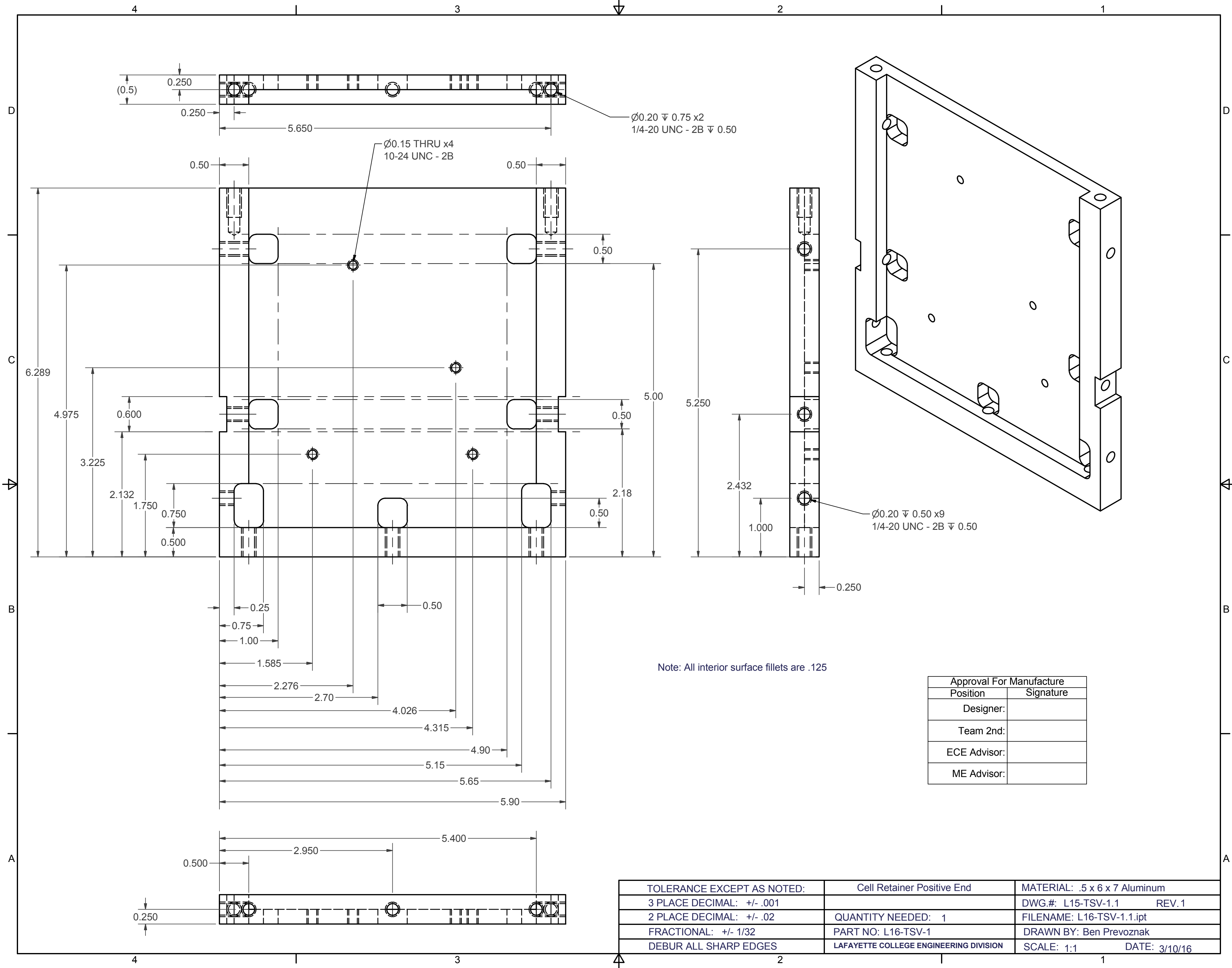
TOLERANCE EXCEPT AS NOTED:	LCD Bracket	MATERIAL: 4.1x.9 x 5/8" Garolite
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-39.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-39.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-39	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 5/6/15

Modify Existing Piece by cutting material off top and bottom, adding holes and milling slot.  
 Note that Holes in the corners already exist, and are not located symmetrically.



Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

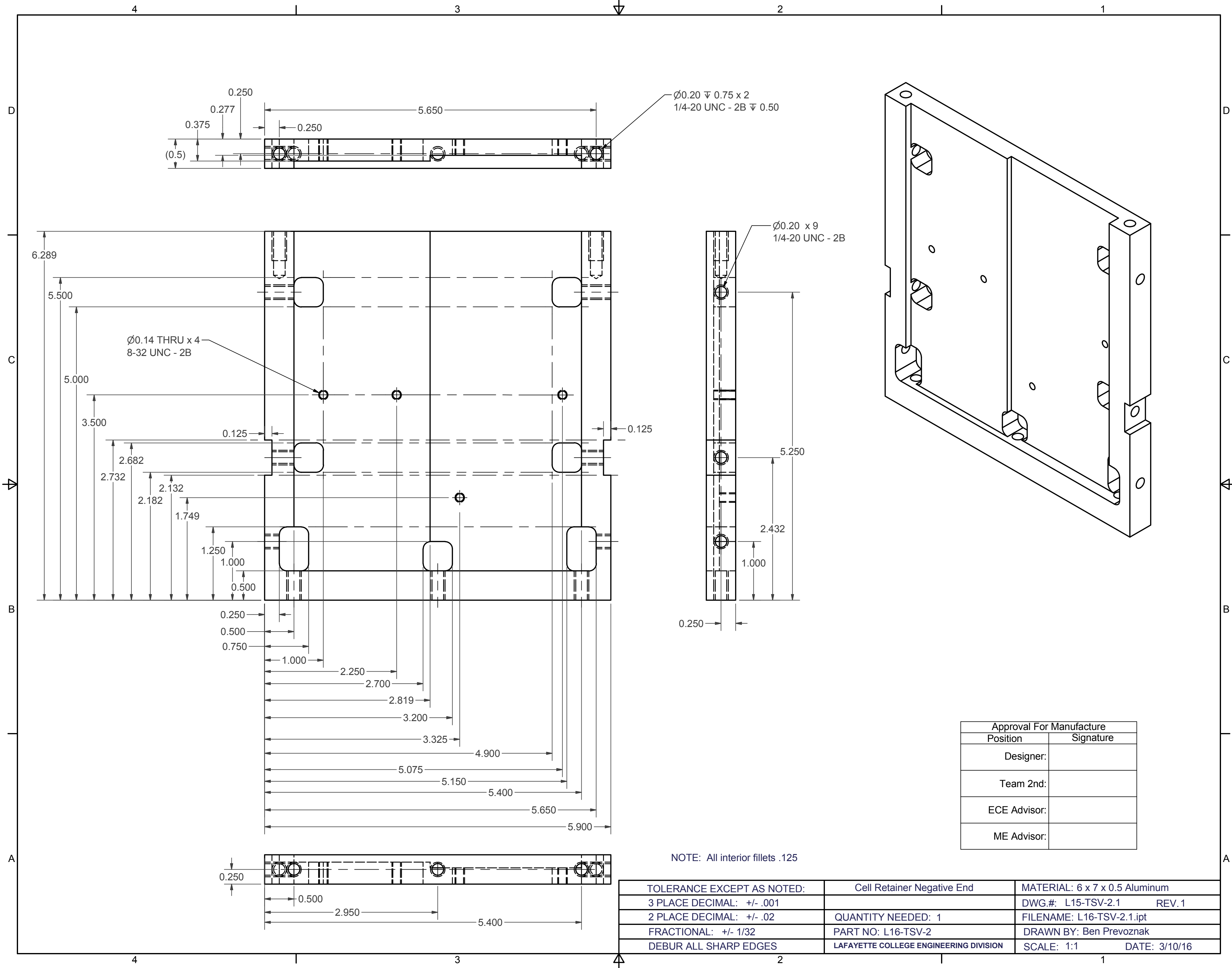
TOLERANCE EXCEPT AS NOTED:	Airs Replacement Bar Mount	MATERIAL: Garolite
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-40.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-40.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-40	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 4/28/15



Note: All interior surface fillets are .125

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

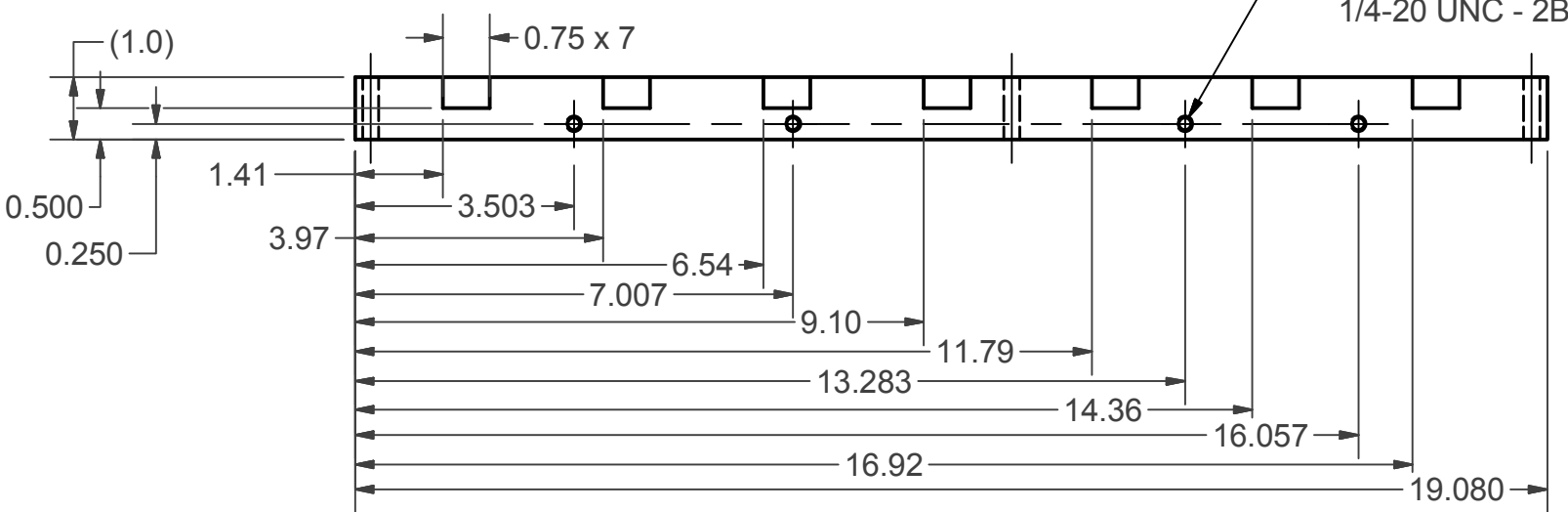
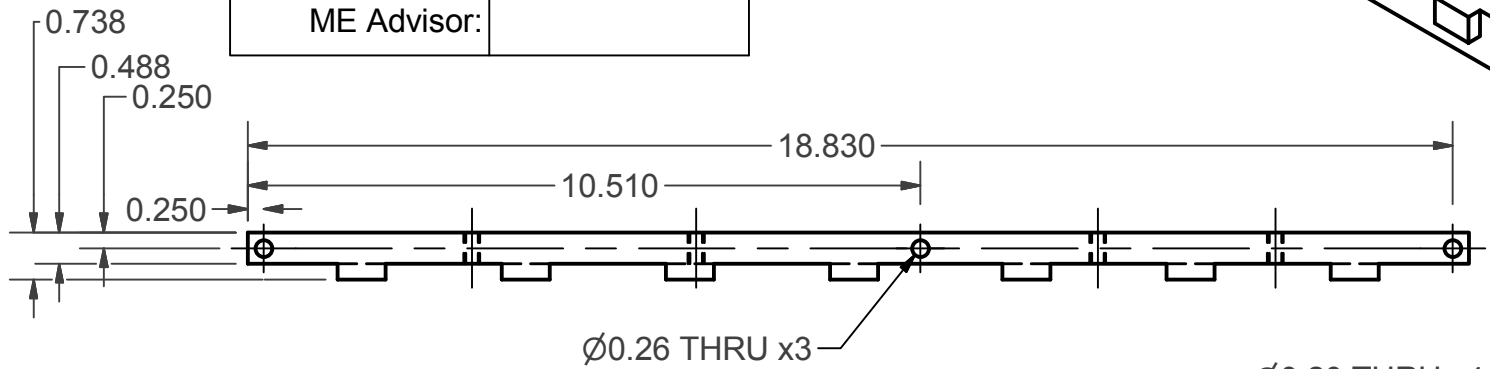
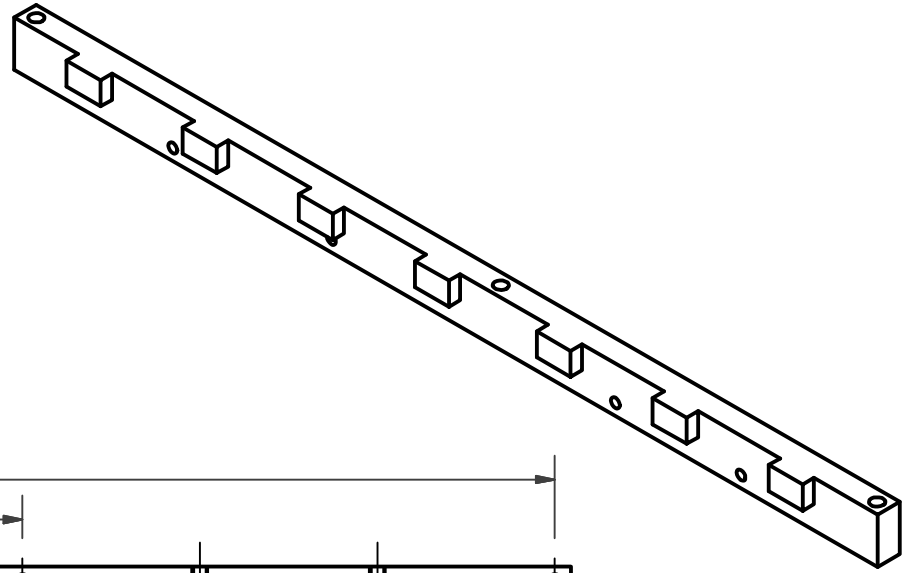
TOLERANCE EXCEPT AS NOTED:	Cell Retainer Positive End	MATERIAL: .5 x 6 x 7 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-1.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME: L16-TSV-1.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-1	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	LAFAYETTE COLLEGE ENGINEERING DIVISION	SCALE: 1:1 DATE: 3/10/16



Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

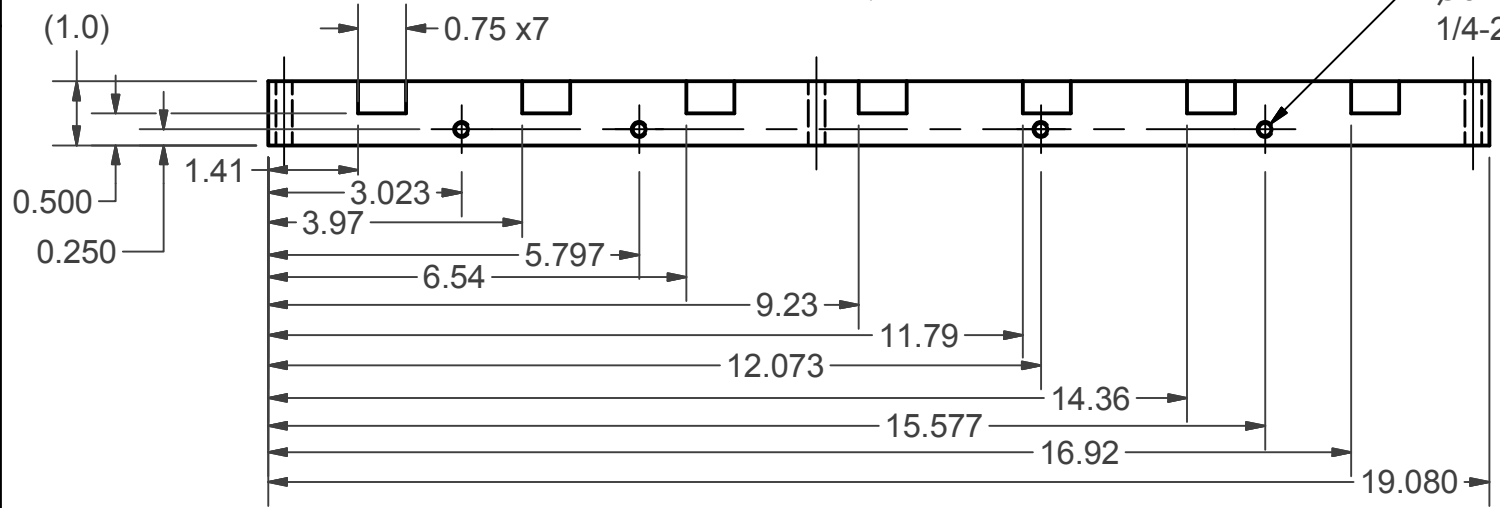
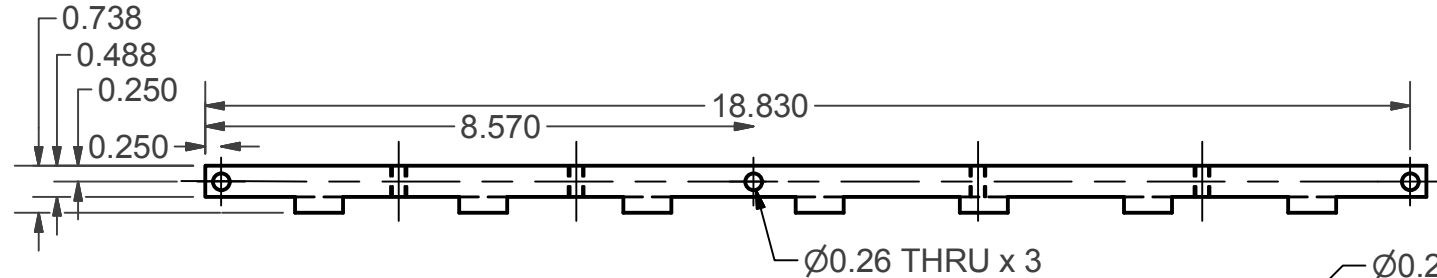
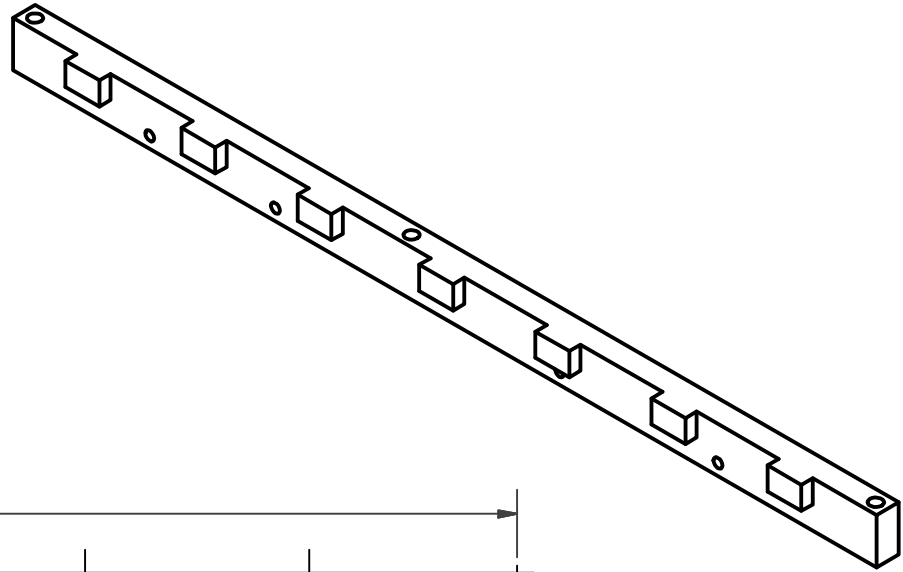
TOLERANCE EXCEPT AS NOTED:	Cell Retainer Negative End	MATERIAL: 6 x 7 x 0.5 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-2.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME: L16-TSV-2.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-2	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	LAFAYETTE COLLEGE ENGINEERING DIVISION	SCALE: 1:1 DATE: 3/10/16

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



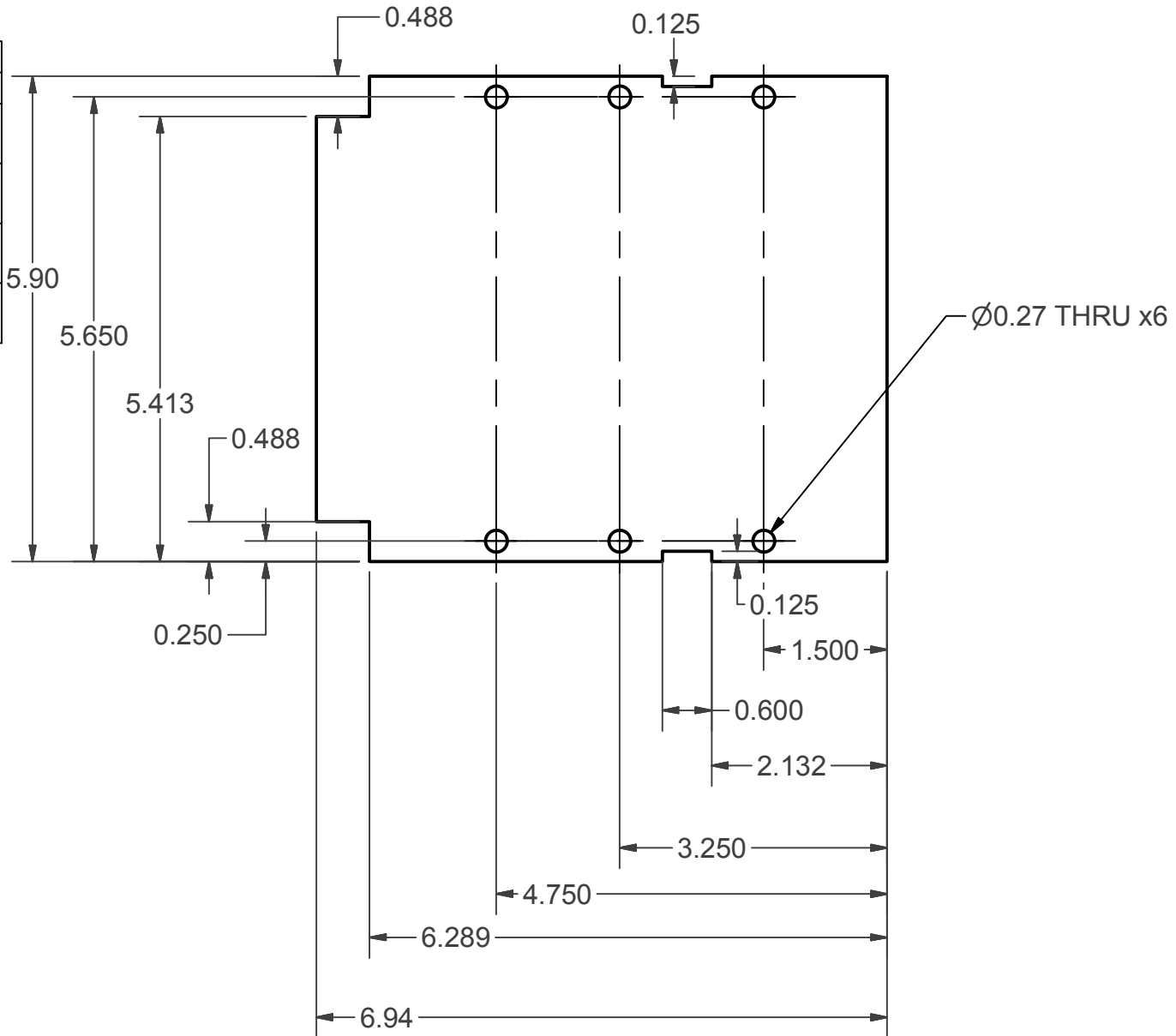
TOLERANCE EXCEPT AS NOTED:	Top Bar of Cell Retainer (Alt. Side)	MATERIAL: 1 x .75 Aluminum Bar
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-3.1 REV.10
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-3.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-3	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:2.5 DATE: 3/12/15

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



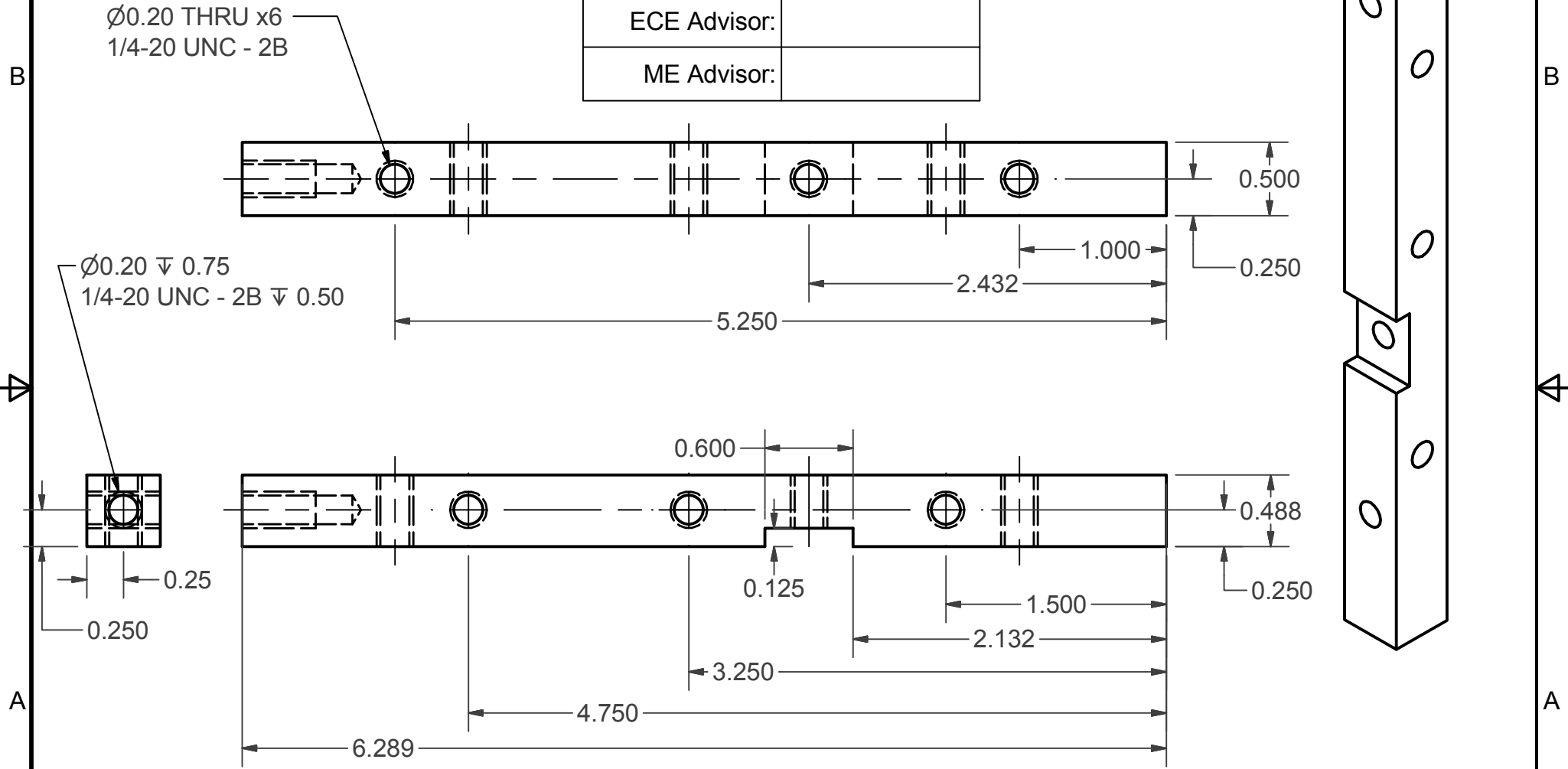
TOLERANCE EXCEPT AS NOTED:	Top Bar of Cell Retainer	MATERIAL: 1 x .75 x 19.25 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L16-TSV-4.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-4.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-4	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:3 DATE: 3/10/16

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



TOLERANCE EXCEPT AS NOTED:	Mid-Cell Internal Wall	MATERIAL: .125 x 6 x 7 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-5.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-5.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-5	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:2 DATE: 3/10/16

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

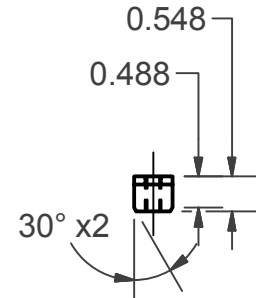
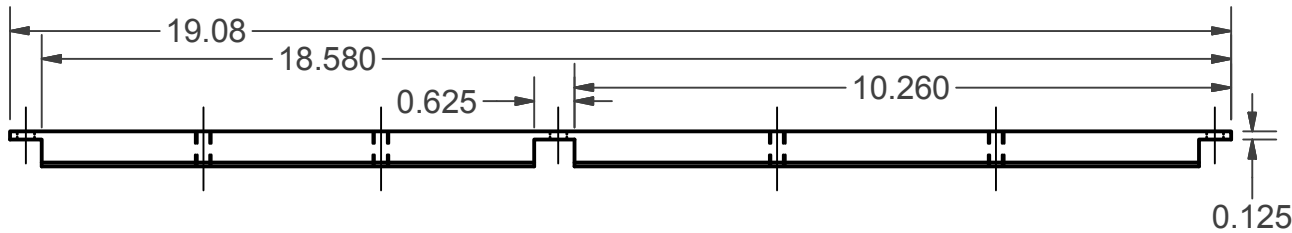
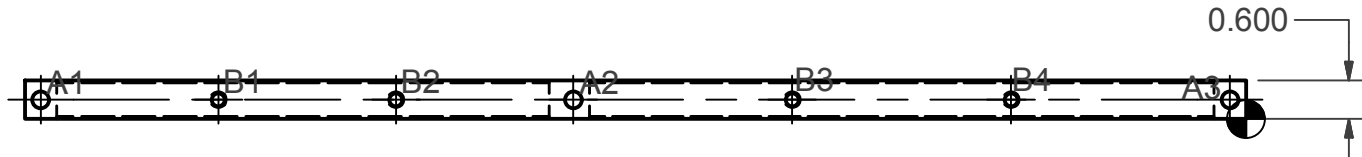
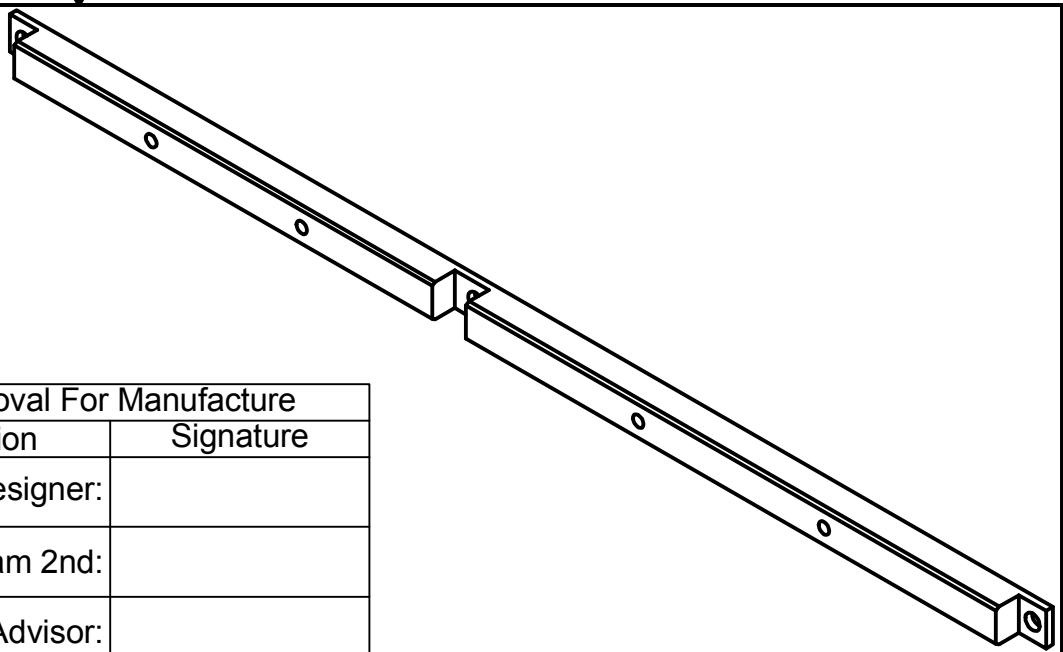


TOLERANCE EXCEPT AS NOTED:	Mounting Bar for Internal Wall	MATERIAL: .5 x .5 x 6.3 Bar
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-6.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 2	FILENAME L16-TSV-6.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-6	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 3/10/16



Hole Table			
HOLE	DESCRIPTION	YDIM	XDIM
A1	Ø0.27 THRU	0.300	-18.830
A2	Ø0.27 THRU	0.300	-10.510
A3	Ø0.27 THRU	0.300	-0.250
B1	Ø0.20 THRU 1/4-20 UNC - 2B	0.300	-16.057
B2	Ø0.20 THRU 1/4-20 UNC - 2B	0.300	-13.283
B3	Ø0.20 THRU 1/4-20 UNC - 2B	0.300	-7.090
B4	Ø0.20 THRU 1/4-20 UNC - 2B	0.300	-3.670

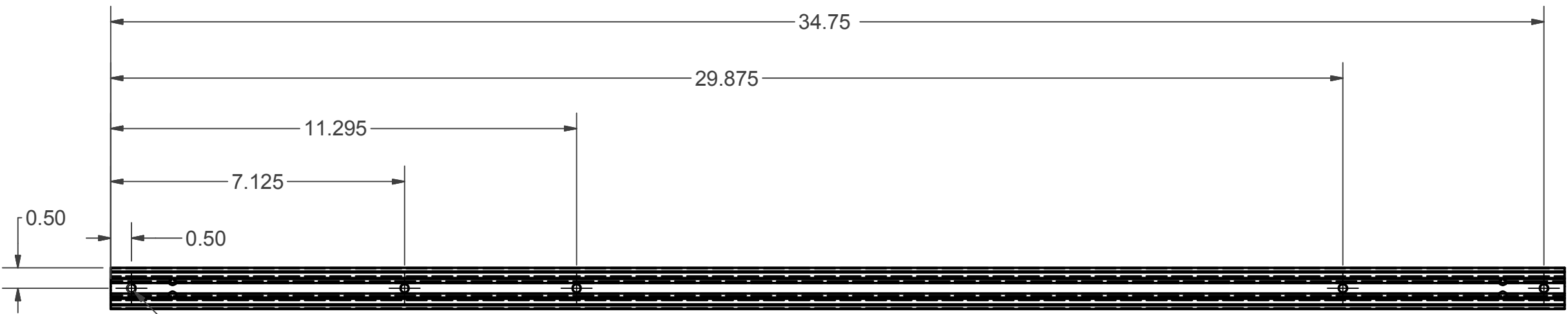
Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



TOLERANCE EXCEPT AS NOTED:	Side Bar for Cells	MATERIAL: .75 x .75 x 19.1 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-7.1 REV. 1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 2	FILENAME sidebar.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-7	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:3 DATE: 3/12/15

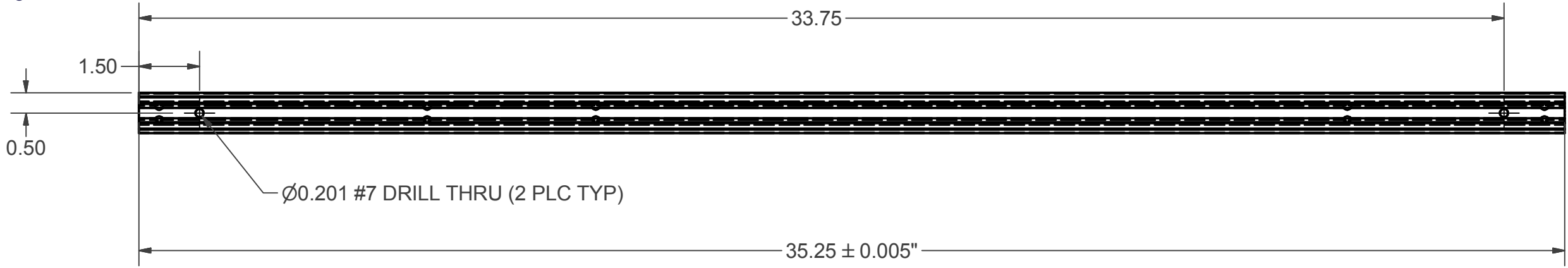
NOTE: ALL HOLE PLACEMENTS ± 0.005"

Top Face



Ø0.201 #7 DRILL THRU (5 PLC TYP)

Right Face



Ø0.201 #7 DRILL THRU (2 PLC TYP)

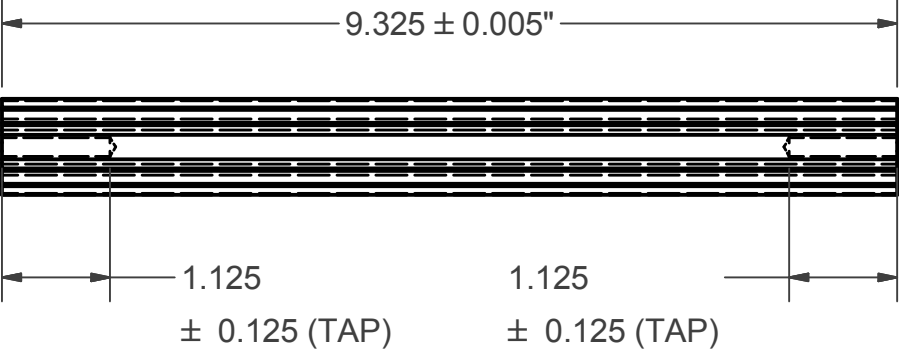
Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1X1 SQ 80/20 ALUM.
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV. 1.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 2	FILENAME 1x1 8020alum.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-10.1	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:4 DATE: 4/9/2015

2

1

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



1/4-20 UNC - 2B ∇ 1.125 ± 0.125  
(TAP AT BOTH ENDS)

B

B

A

A

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1X1 SQ 80/20 ALUM.
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV. 1.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 4	FILENAME 1x1x10 8020alum.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-11.1	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:2 DATE: 4/9/2015

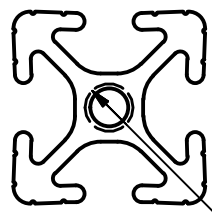
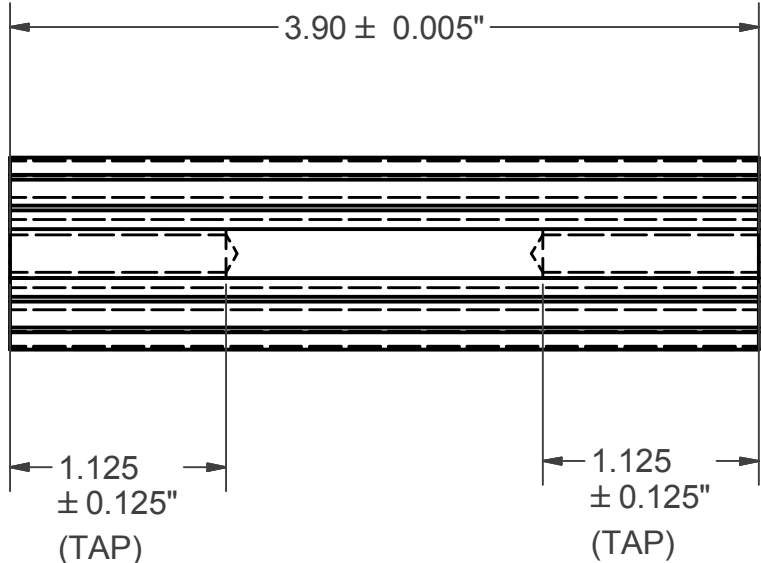
2

1

2

1

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	



1/4-20 UNC - 2B  $\nabla$ 1.125 ± 0.125  
(TAP AT BOTH ENDS)

B

B

A

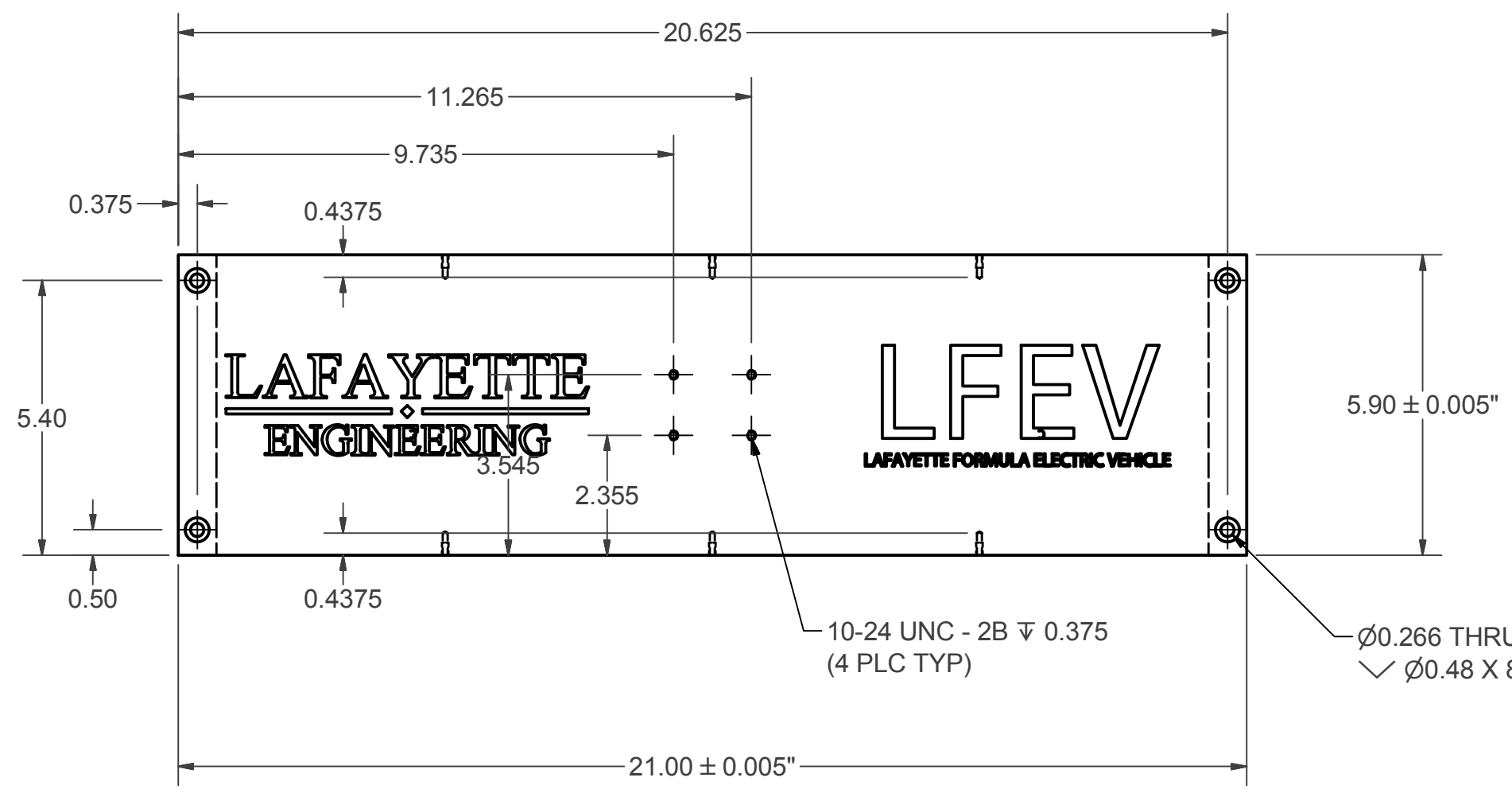
A

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1X1 SQ. 80/20 ALUM.
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 2	FILENAME L16-TSV-12.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-12	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 4/12/2015

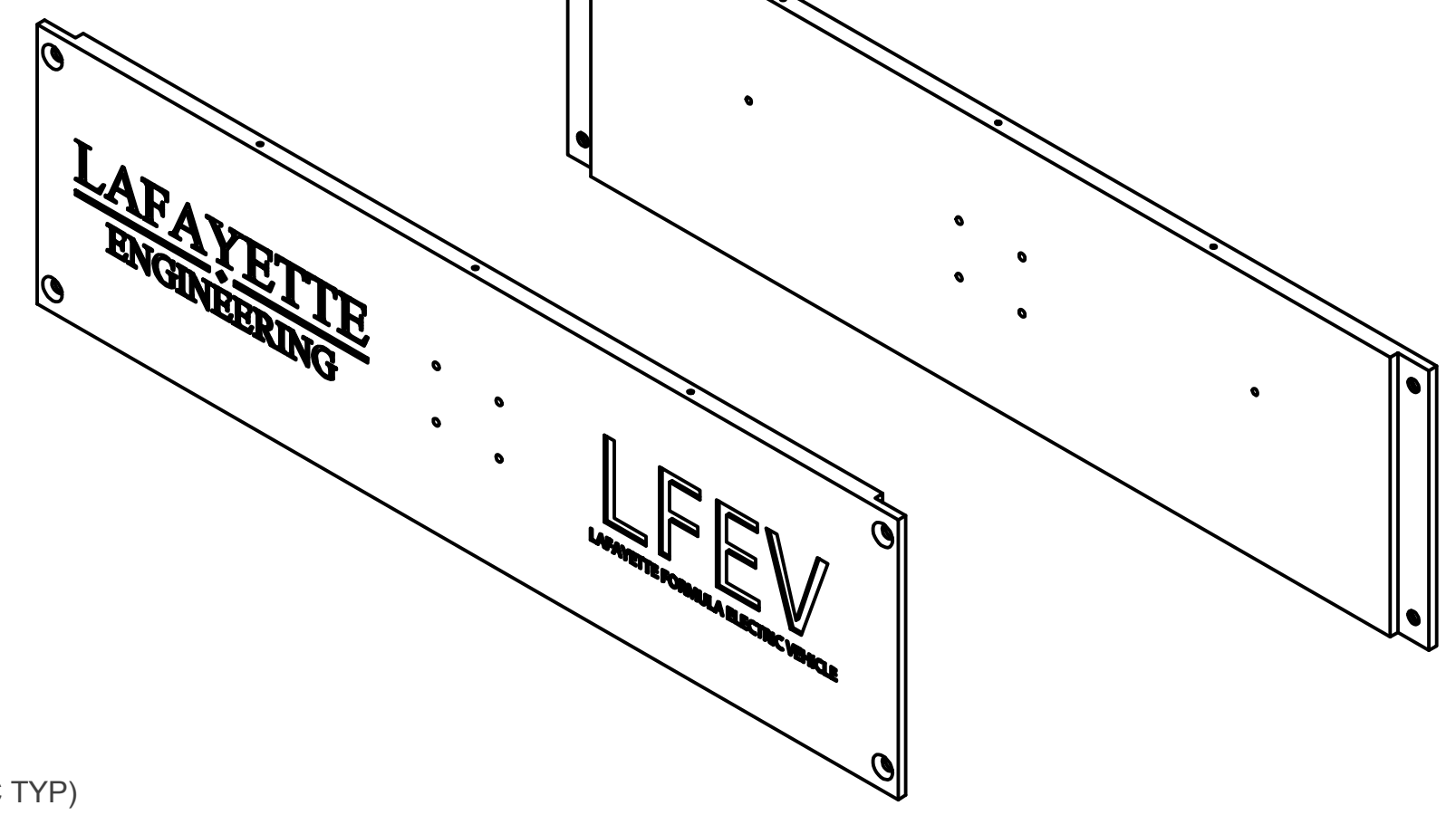
2

1

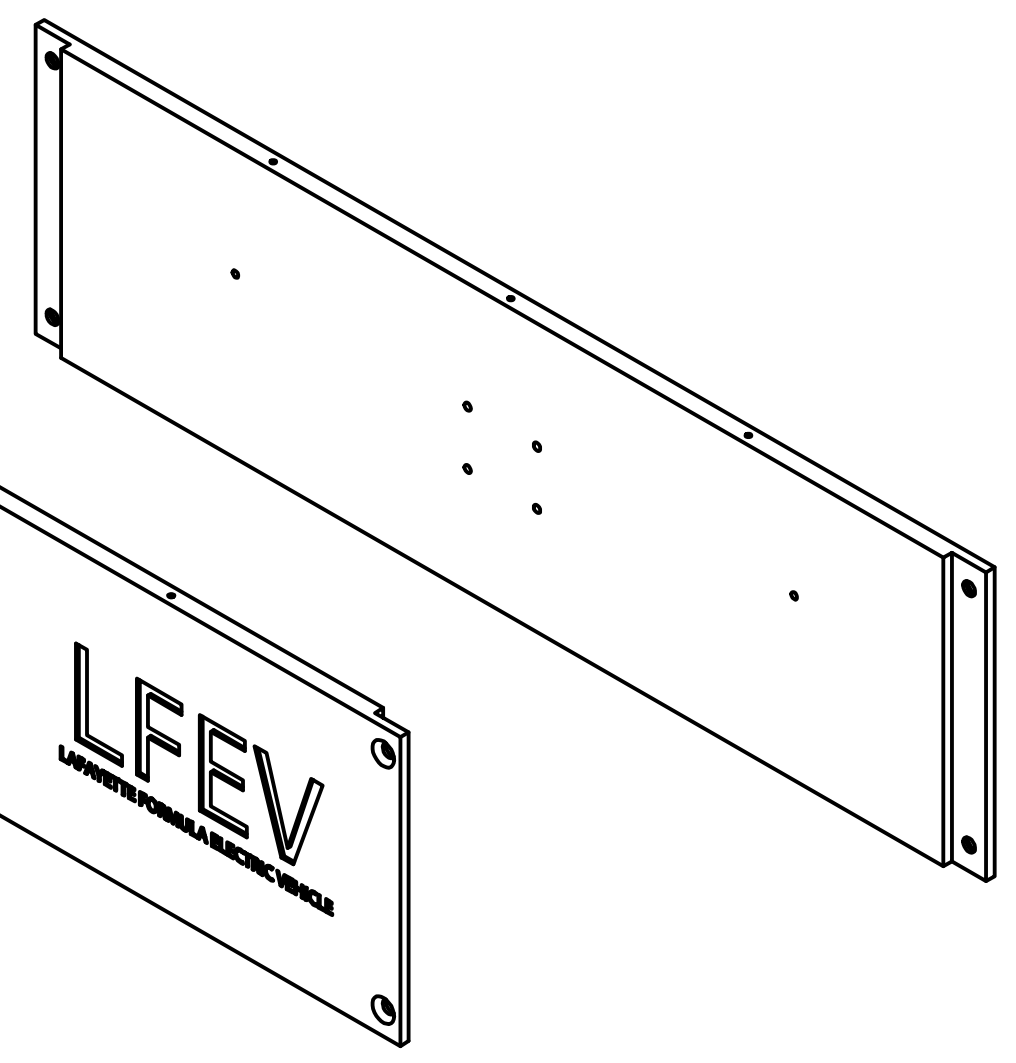
TOP FACE



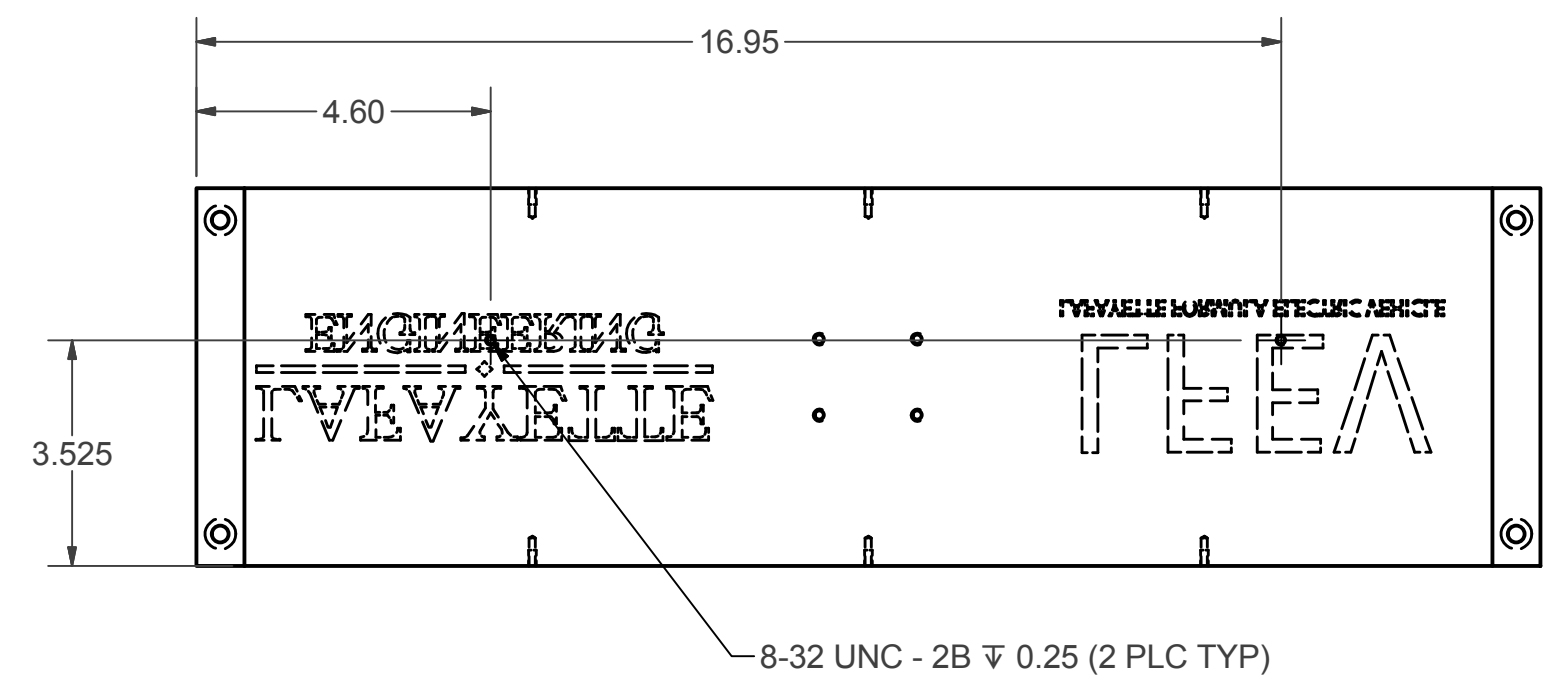
TOP ISO



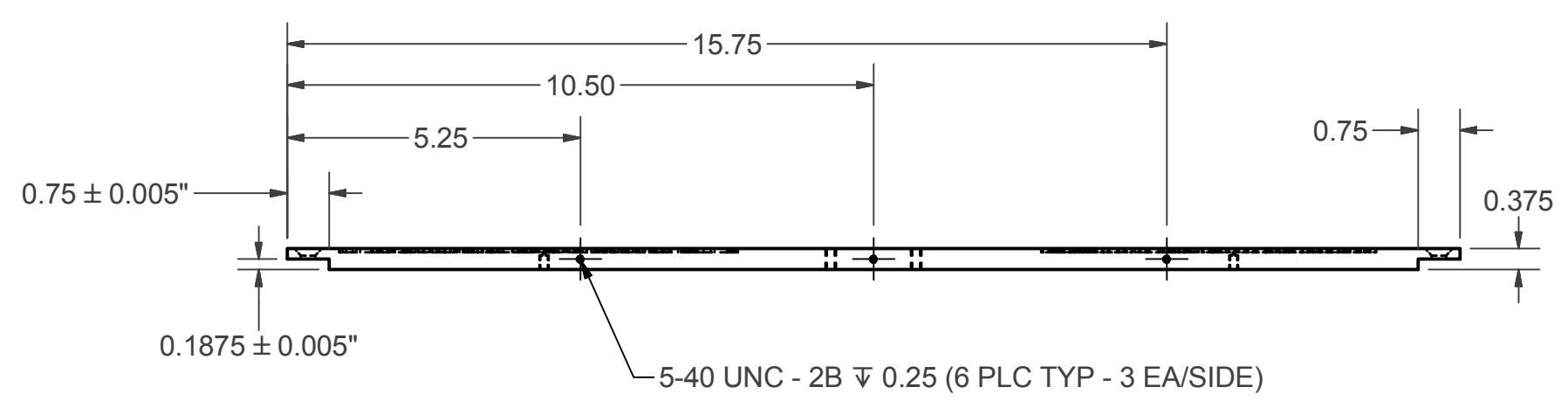
BOTTOM ISO



BOTTOM FACE



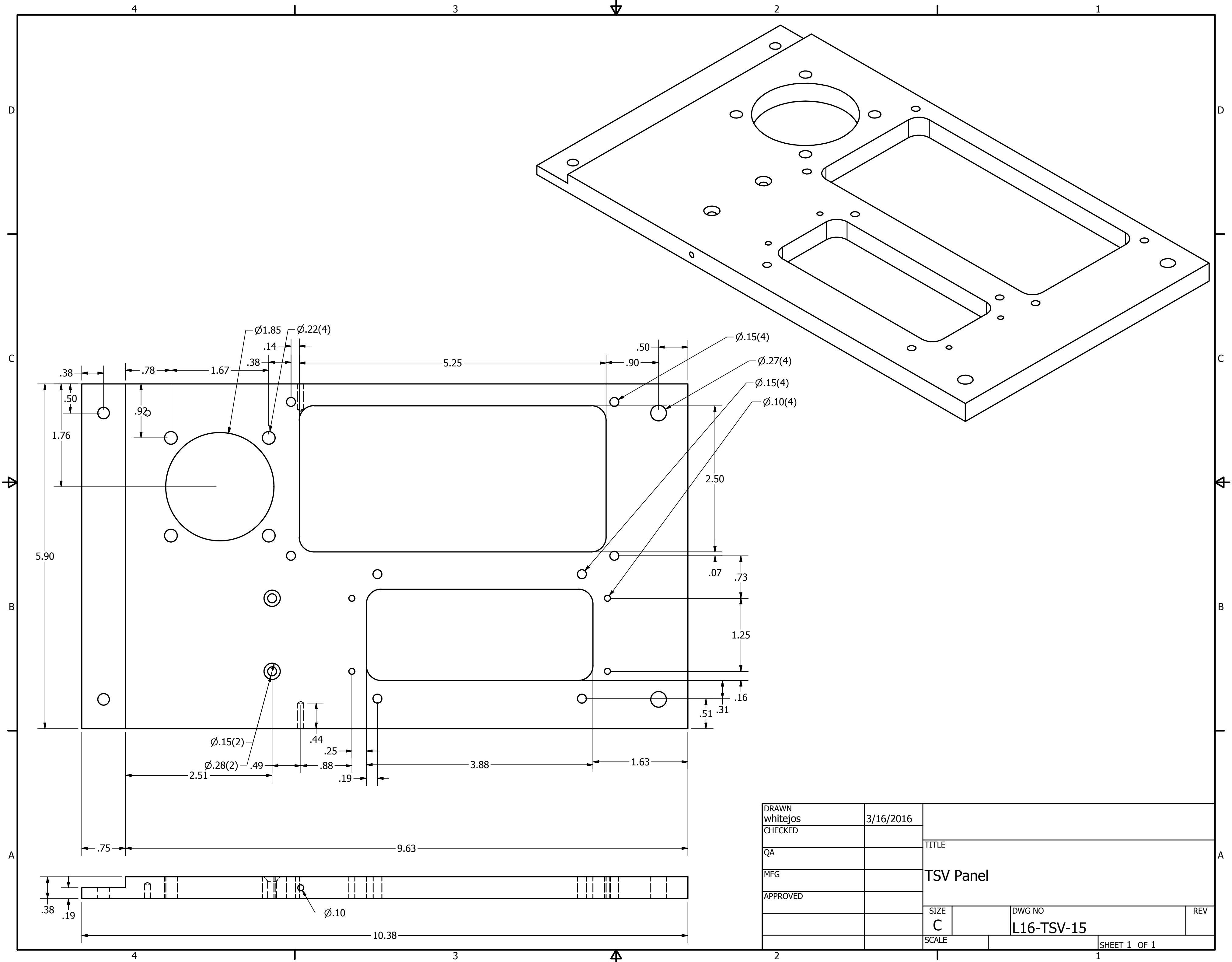
SIDE FACE



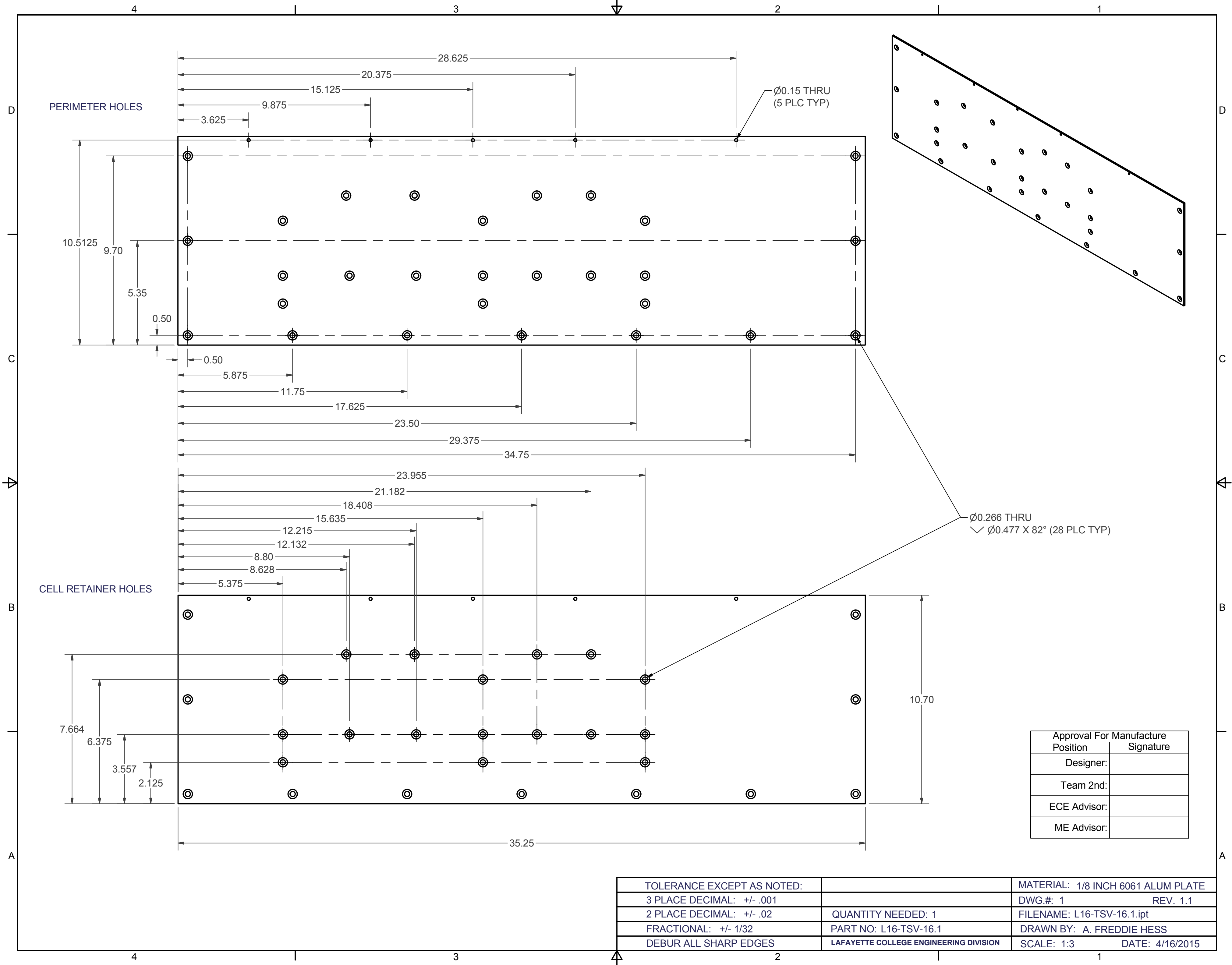
NOTE: ALL HOLE PLACEMENTS ± 0.005"

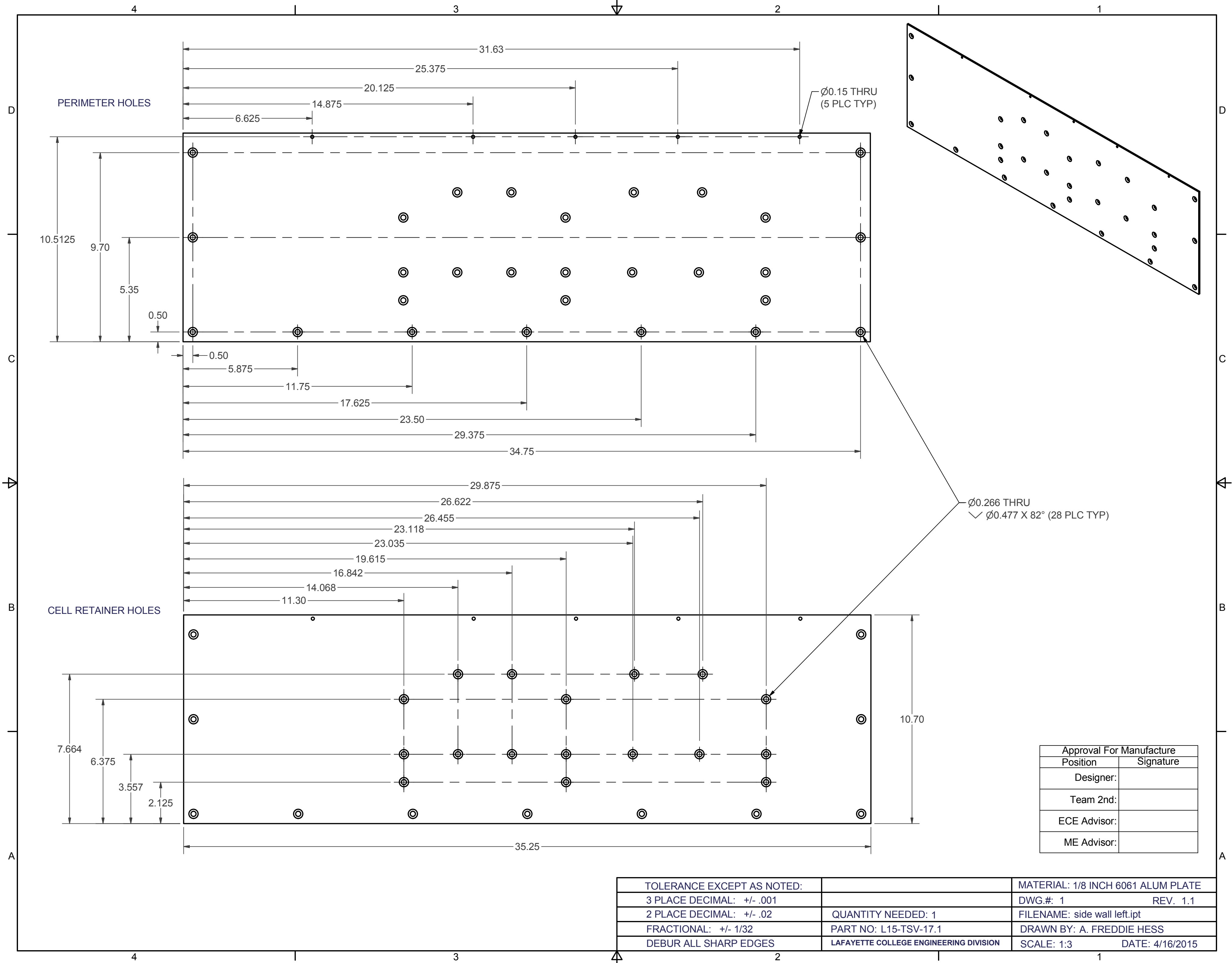
Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 3/8 INCH 6061 ALUM. PLATE
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV. 1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-13.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-13	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	LAFAYETTE COLLEGE ENGINEERING DIVISION	SCALE: 1:4 DATE: 3/10/16



DRAWN whitejos	3/16/2016	TITLE		
CHECKED		TSV Panel		
QA		SIZE	DWG NO	REV
MFG		C	L16-TSV-15	
APPROVED		SCALE	SHEET 1 OF 1	





PERIMETER HOLES

CELL RETAINER HOLES

Ø0.15 THRU  
(5 PLC TYP)

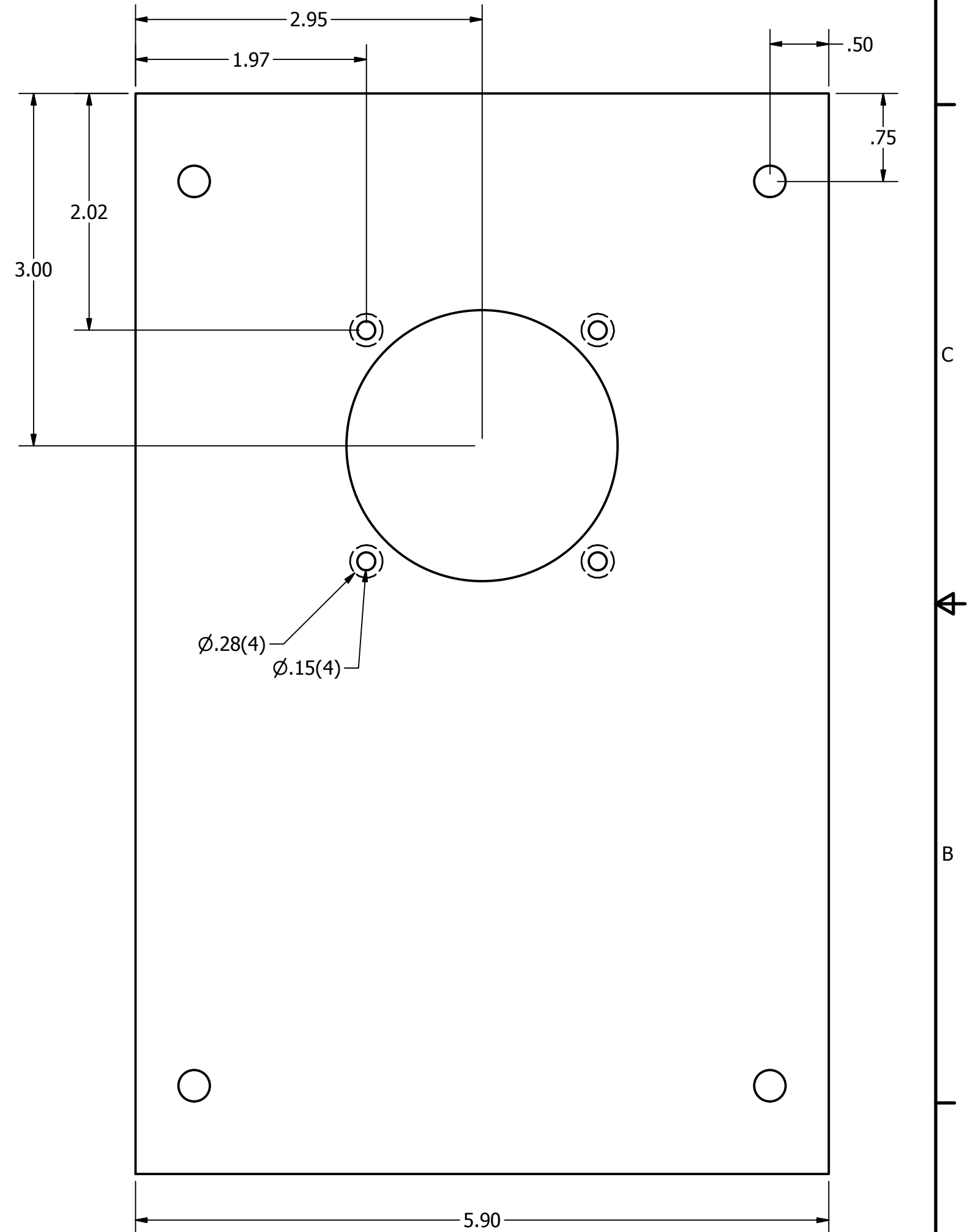
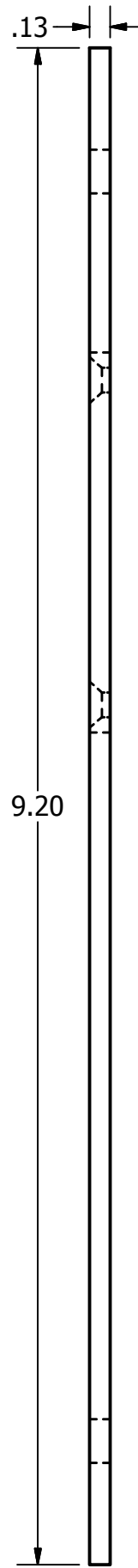
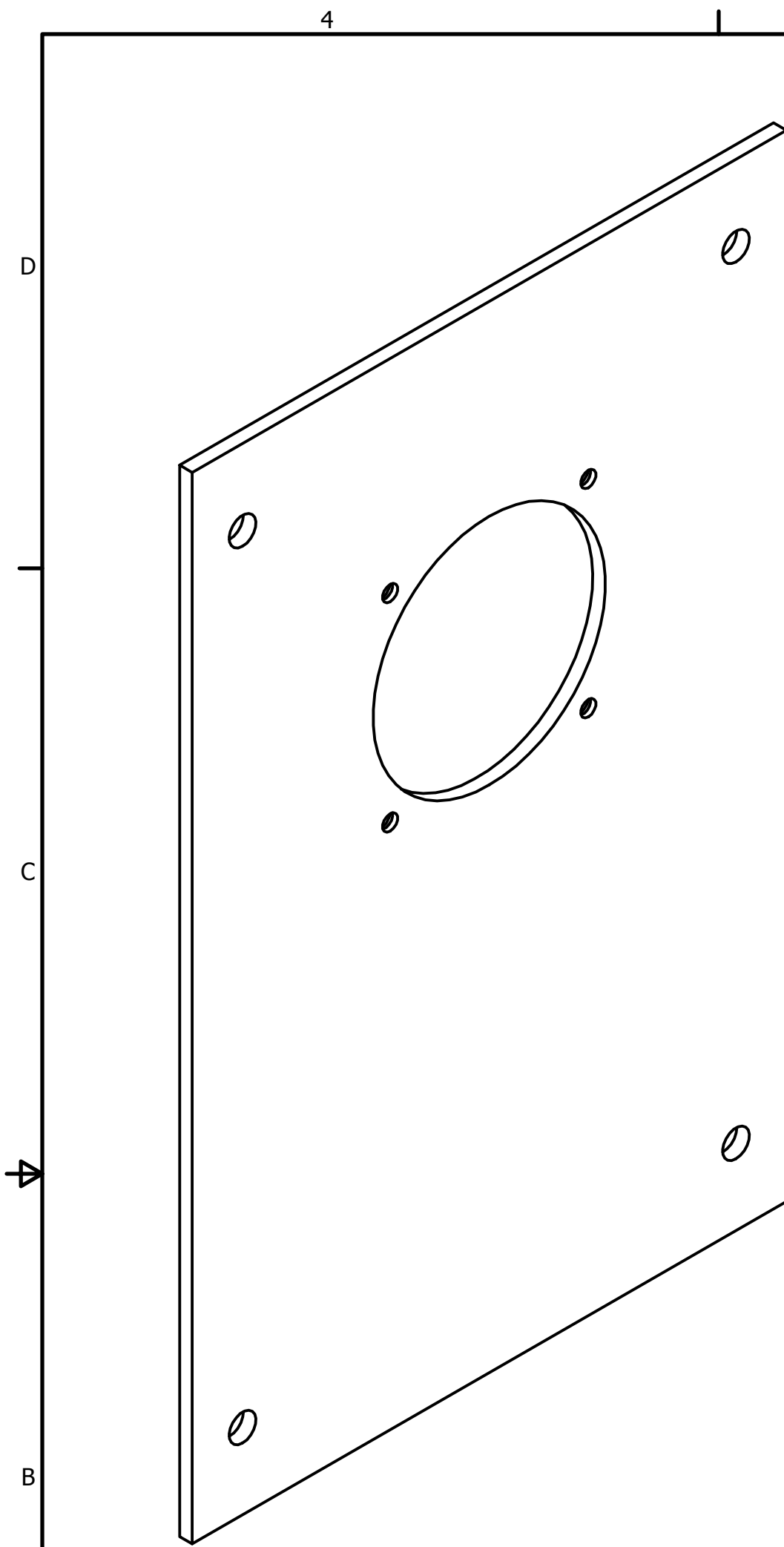
Ø0.266 THRU  
∨ Ø0.477 X 82° (28 PLC TYP)

Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

TOLERANCE EXCEPT AS NOTED:		MATERIAL: 1/8 INCH 6061 ALUM PLATE
3 PLACE DECIMAL: +/- .001		DWG.#: 1 REV. 1.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME: side wall left.ipt
FRACTIONAL: +/- 1/32	PART NO: L15-TSV-17.1	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	LAFAYETTE COLLEGE ENGINEERING DIVISION	SCALE: 1:3 DATE: 4/16/2015

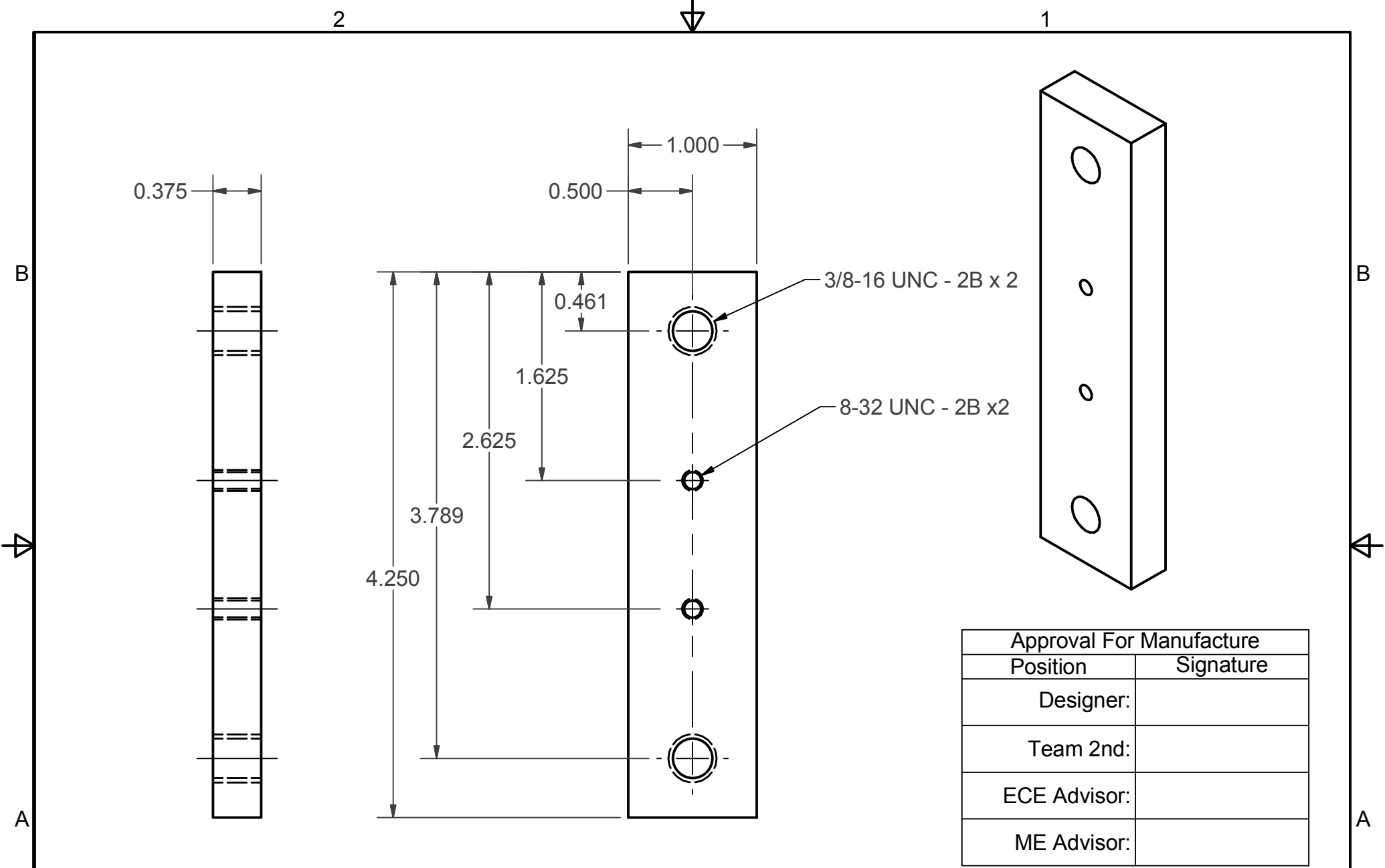






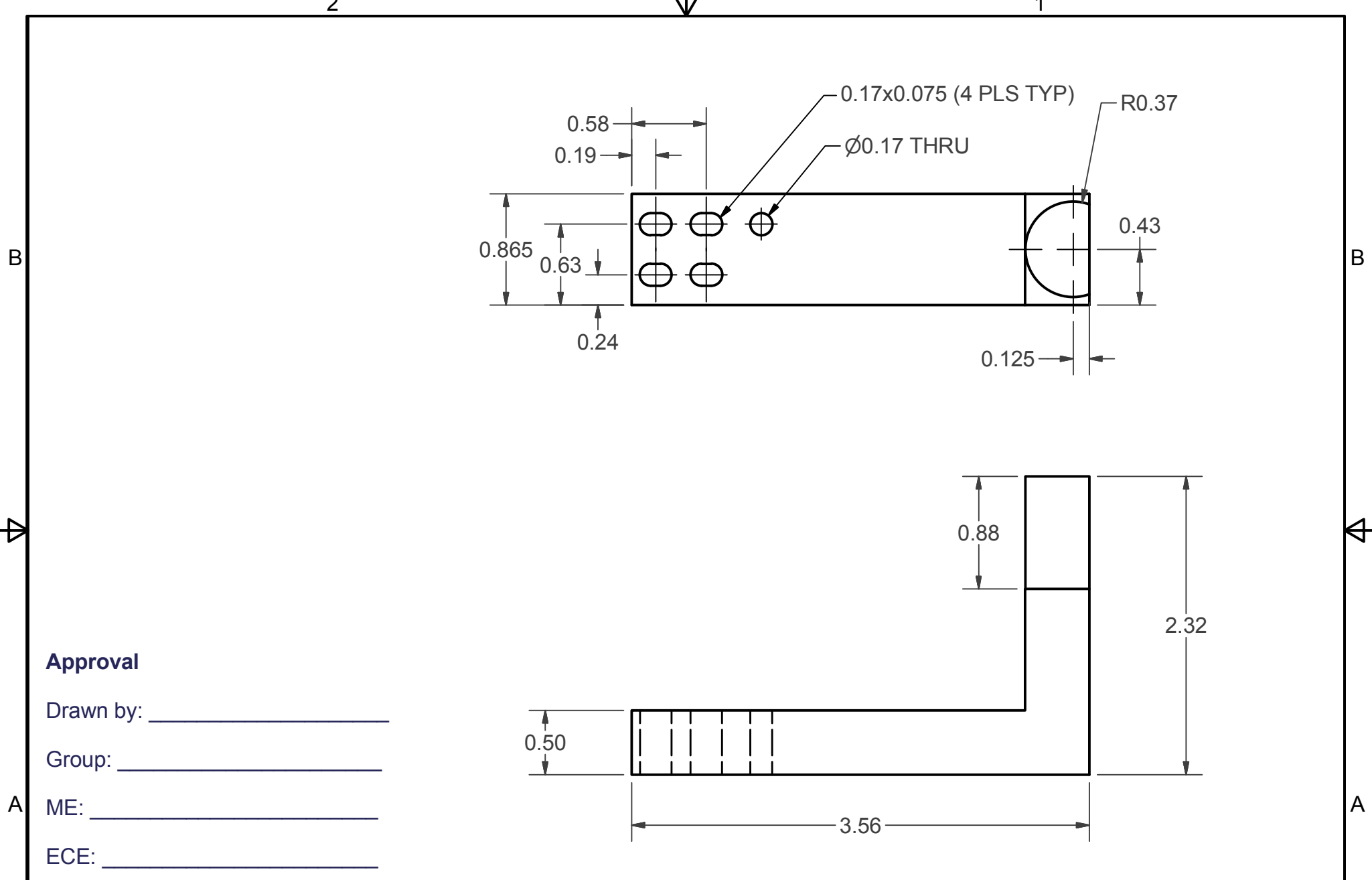
DRAWN whitejos	3/16/2016	TITLE		
CHECKED		Fan/Vent Plate		
QA		SIZE	DWG NO	REV
MFG		C	L16-TSV-19.2	
APPROVED		SCALE	SHEET 1 OF 1	





Approval For Manufacture	
Position	Signature
Designer:	
Team 2nd:	
ECE Advisor:	
ME Advisor:	

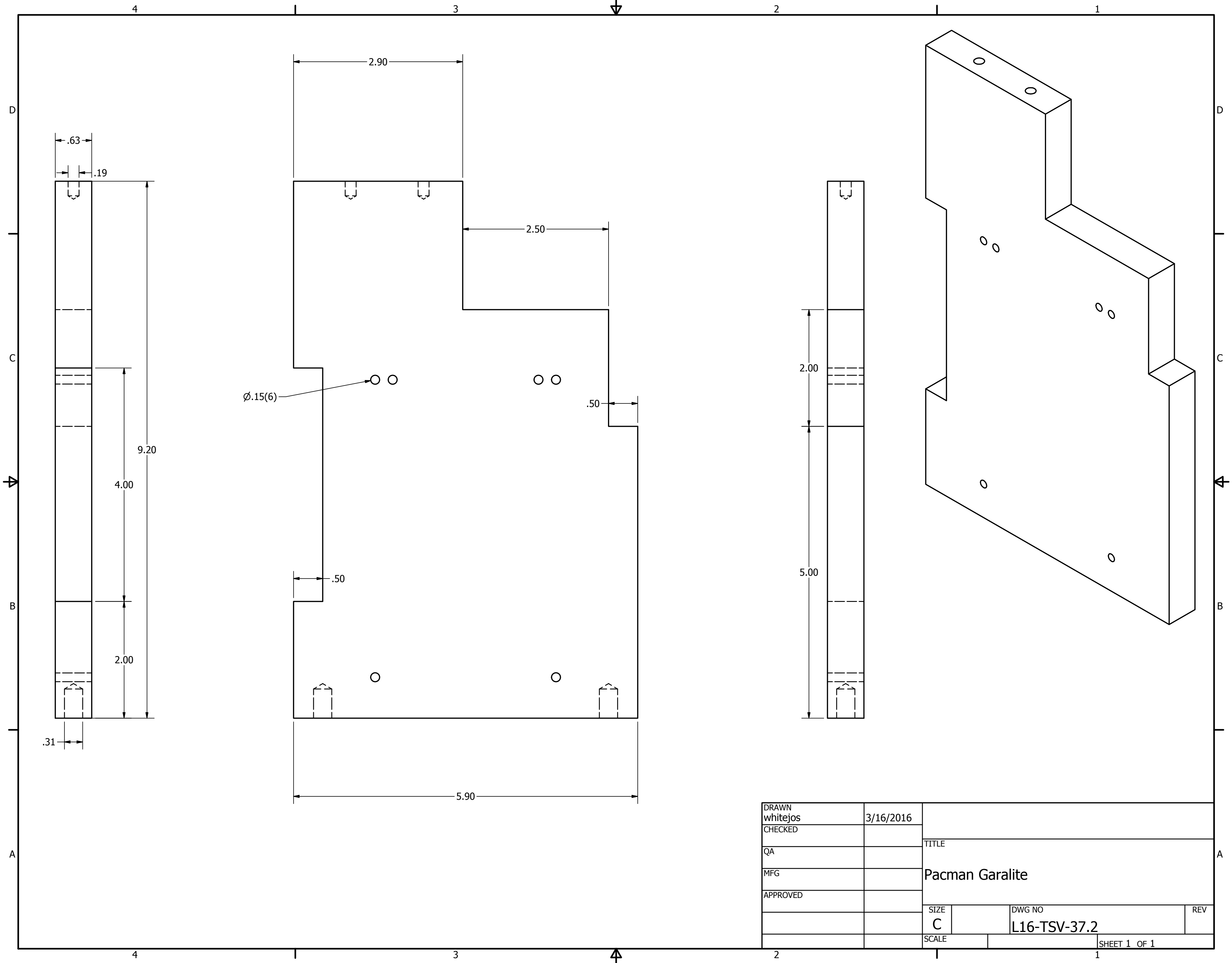
TOLERANCE EXCEPT AS NOTED:	Airs Replacement Bar	MATERIAL: 1 x .5 x 4.25 Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-31.1 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-31.1.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-31	DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 4/28/15



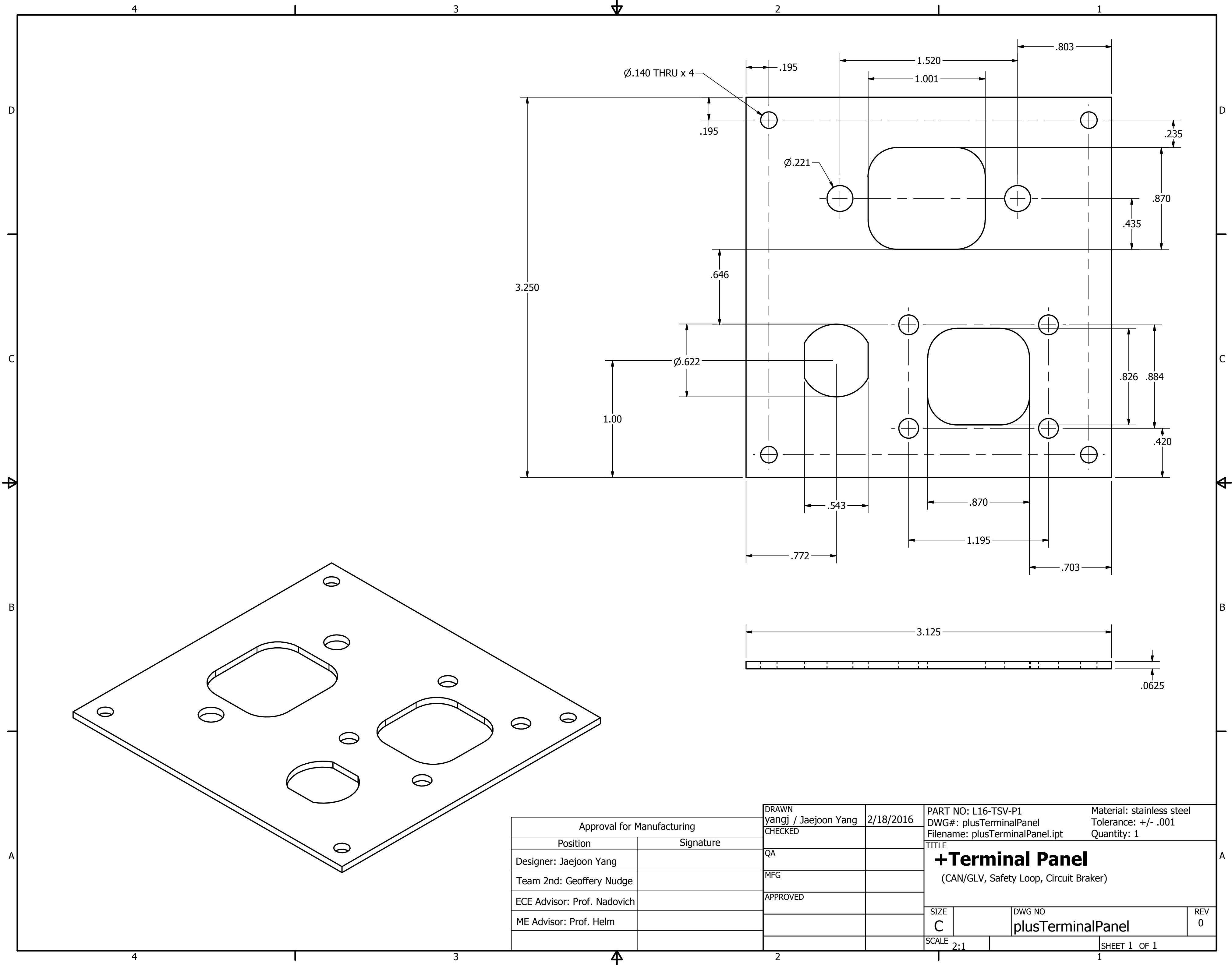
TOLERANCE EXCEPT AS NOTED:		MATERIAL: Aluminum
3 PLACE DECIMAL: +/- .001		DWG.#: L15-TSV-33 REV.1
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED: 1	FILENAME L16-TSV-33.0.ipt
FRACTIONAL: +/- 1/32	PART NO: L16-TSV-33	DRAWN BY: Kailan Ottaway
DEBUR ALL SHARP EDGES	<b>LAFAYETTE COLLEGE ENGINEERING</b>	SCALE: 1:1 DATE: 3/14/16

2

1



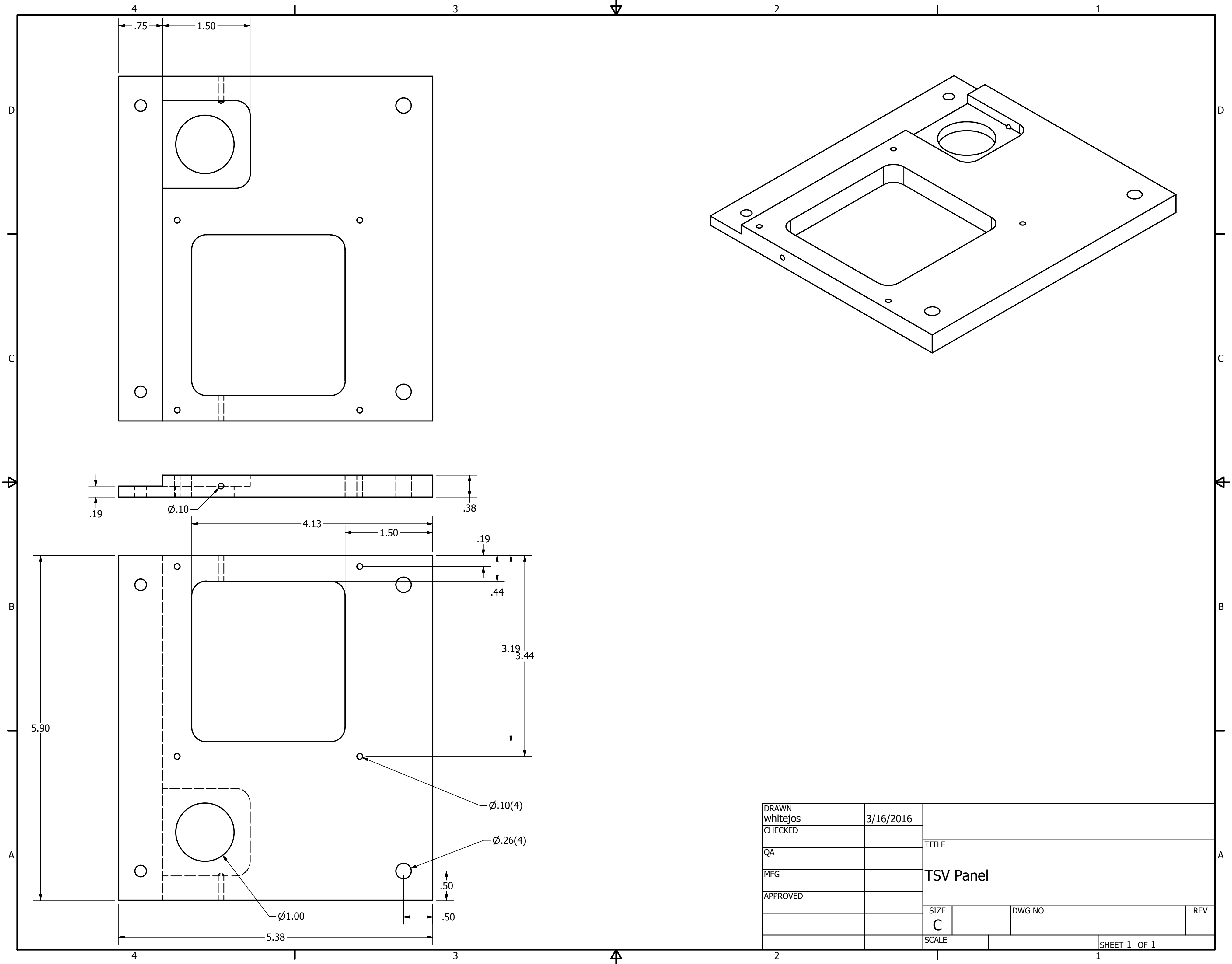
DRAWN whitejos	3/16/2016			
CHECKED		TITLE		
QA		Pacman Garalite		
MFG		SIZE	DWG NO	REV
APPROVED		C	L16-TSV-37.2	
		SCALE	SHEET 1 OF 1	



Approval for Manufacturing	
Position	Signature
Designer: Jaejoon Yang	
Team 2nd: Geoffery Nudge	
ECE Advisor: Prof. Nadovich	
ME Advisor: Prof. Helm	

DRAWN yangj / Jaejoon Yang	2/18/2016
CHECKED	
QA	
MFG	
APPROVED	

PART NO: L16-TSV-P1	Material: stainless steel
DWG#: plusTerminalPanel	Tolerance: +/- .001
Filename: plusTerminalPanel.ipt	Quantity: 1
TITLE	
<b>+Terminal Panel</b>	
(CAN/GLV, Safety Loop, Circuit Braker)	
SIZE C	DWG NO plusTerminalPanel
SCALE 2:1	REV 0
SHEET 1 OF 1	

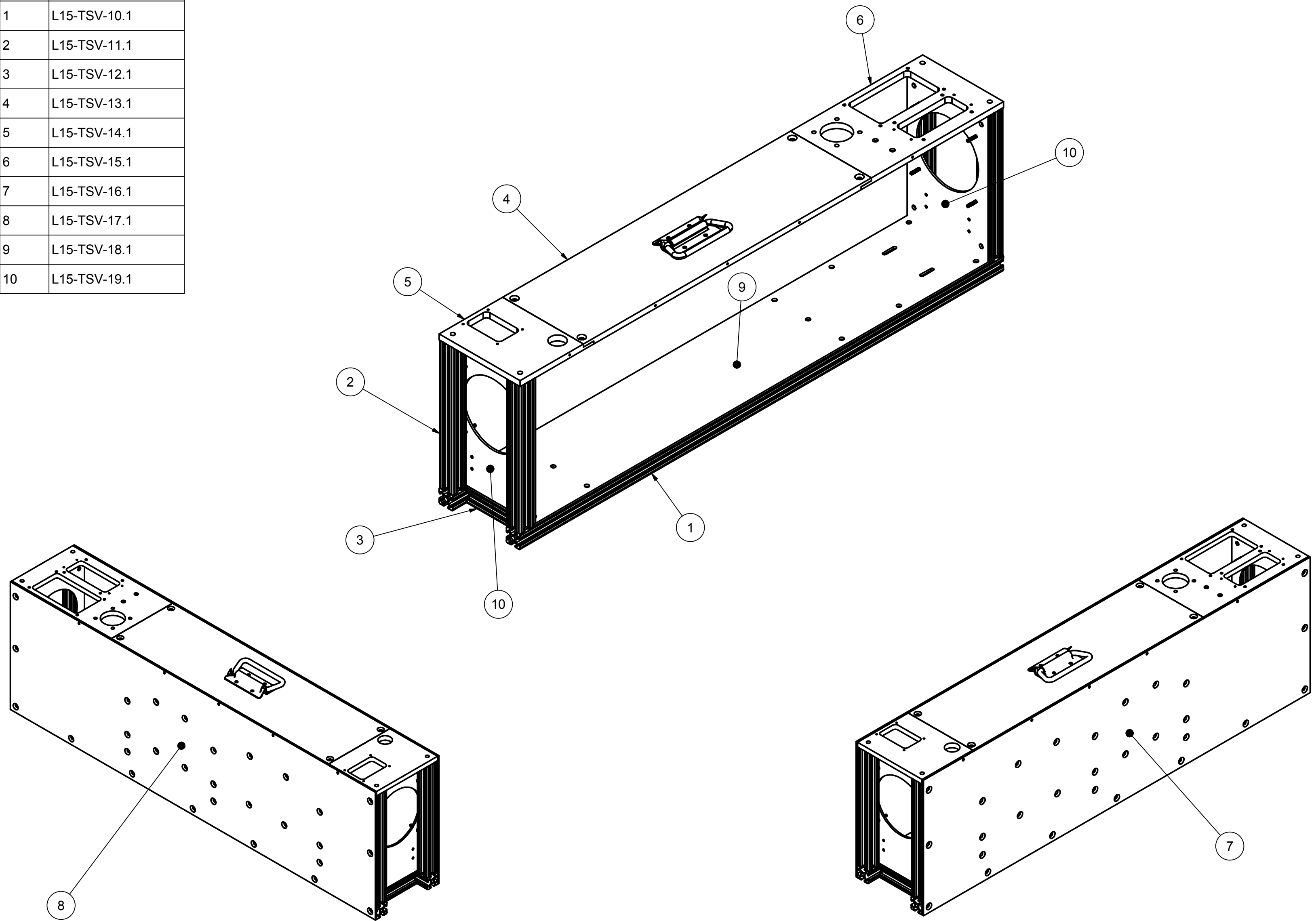


DRAWN whitejos	3/16/2016	TITLE		
CHECKED		TSV Panel		
QA		SIZE C	DWG NO	REV
MFG		SCALE	SHEET 1 OF 1	
APPROVED				

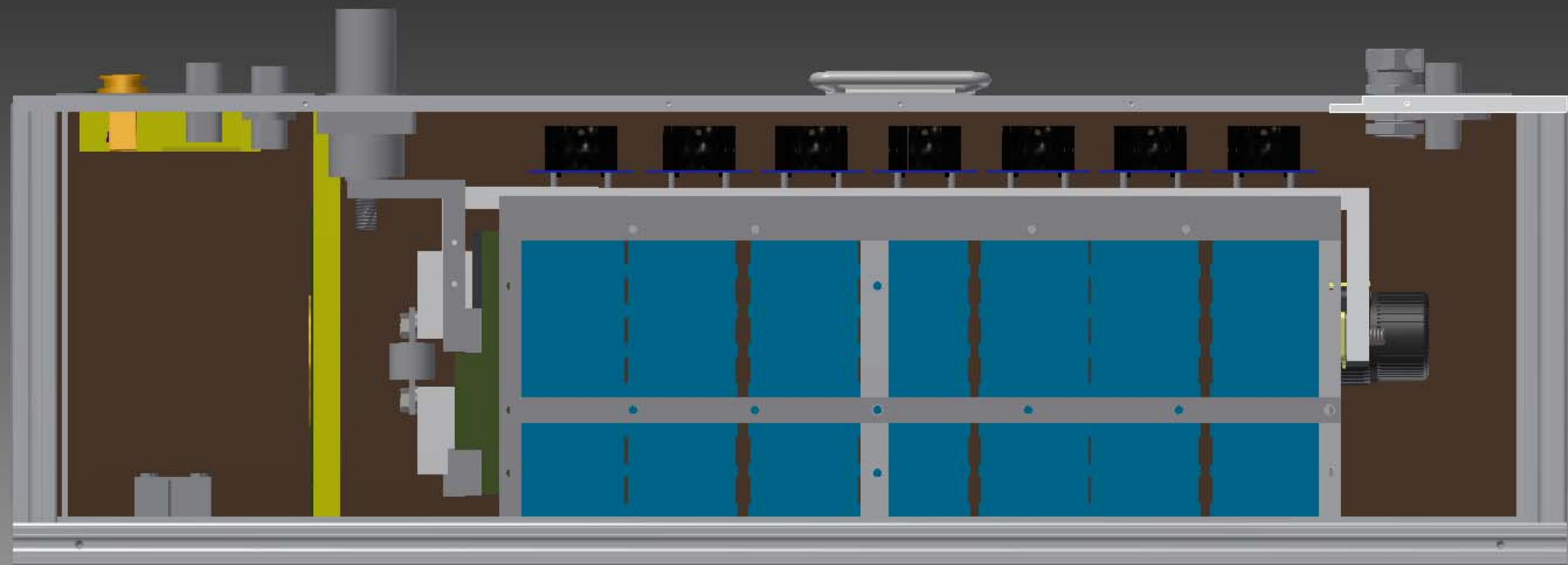


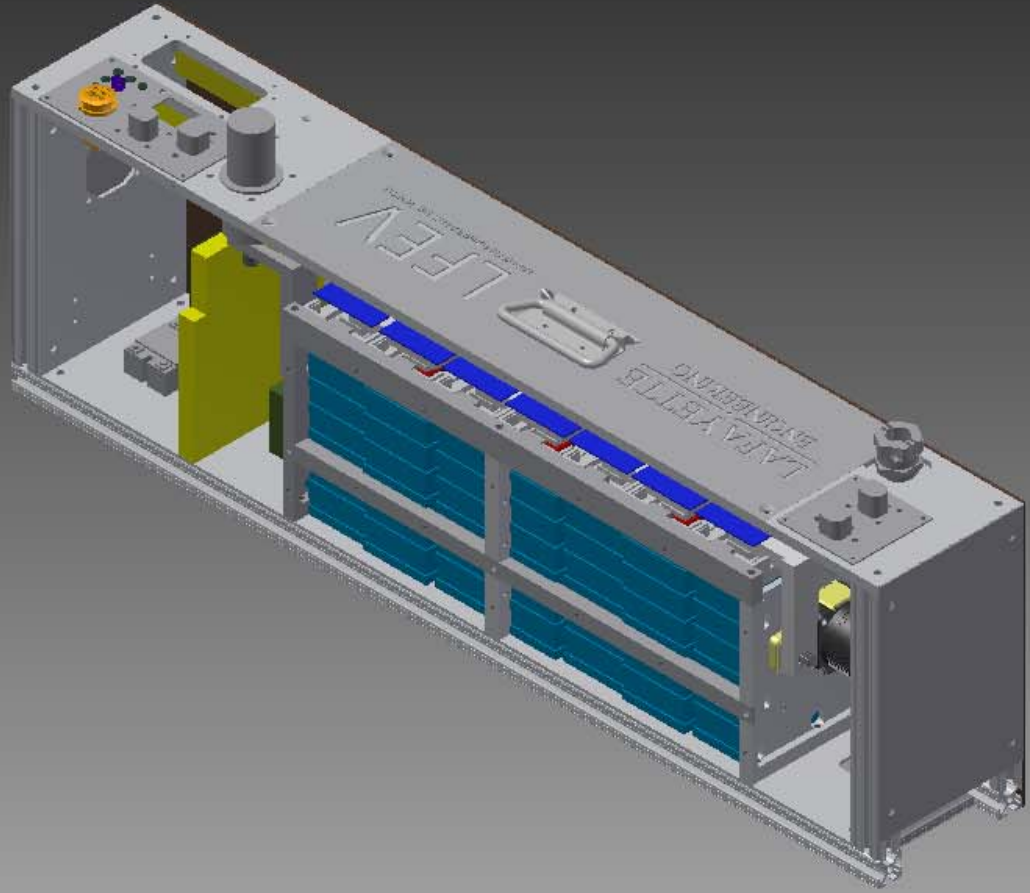
# TSV HOUSING

Table	
No.	Part
1	L15-TSV-10.1
2	L15-TSV-11.1
3	L15-TSV-12.1
4	L15-TSV-13.1
5	L15-TSV-14.1
6	L15-TSV-15.1
7	L15-TSV-16.1
8	L15-TSV-17.1
9	L15-TSV-18.1
10	L15-TSV-19.1



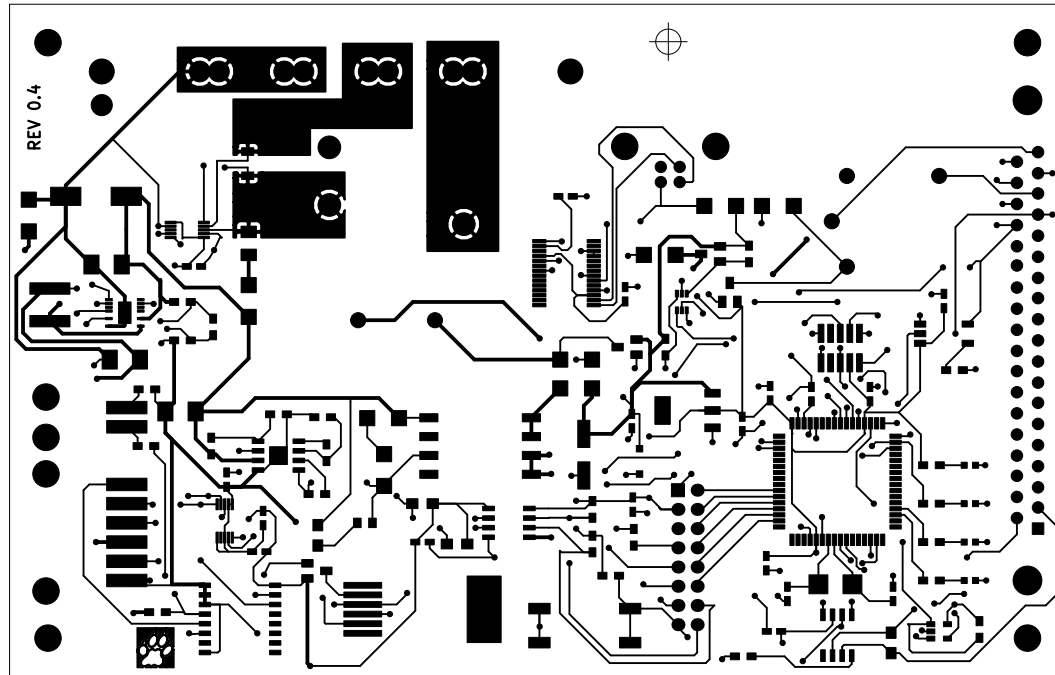
TOLERANCE EXCEPT AS NOTED:		MATERIAL: ALUMINUM
3 PLACE DECIMAL: +/- .001		DWG.#: REV.
2 PLACE DECIMAL: +/- .02	QUANTITY NEEDED:	FILENAME: battery housing ASSY (4-8-2015).iam
FRACTIONAL: +/- 1/32	PART NO: TSV HOUSING ASSY	DRAWN BY: A. FREDDIE HESS
DEBUR ALL SHARP EDGES	LAFAYETTE COLLEGE ENGINEERING DIVISION	SCALE: 1:5 DATE: 4/20/2015





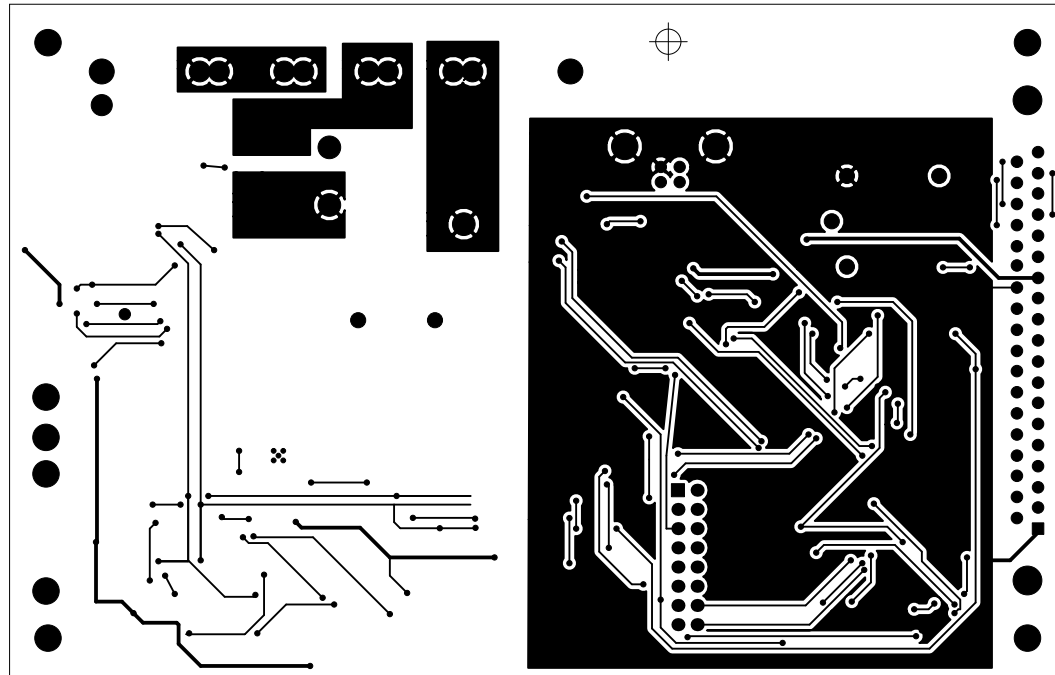






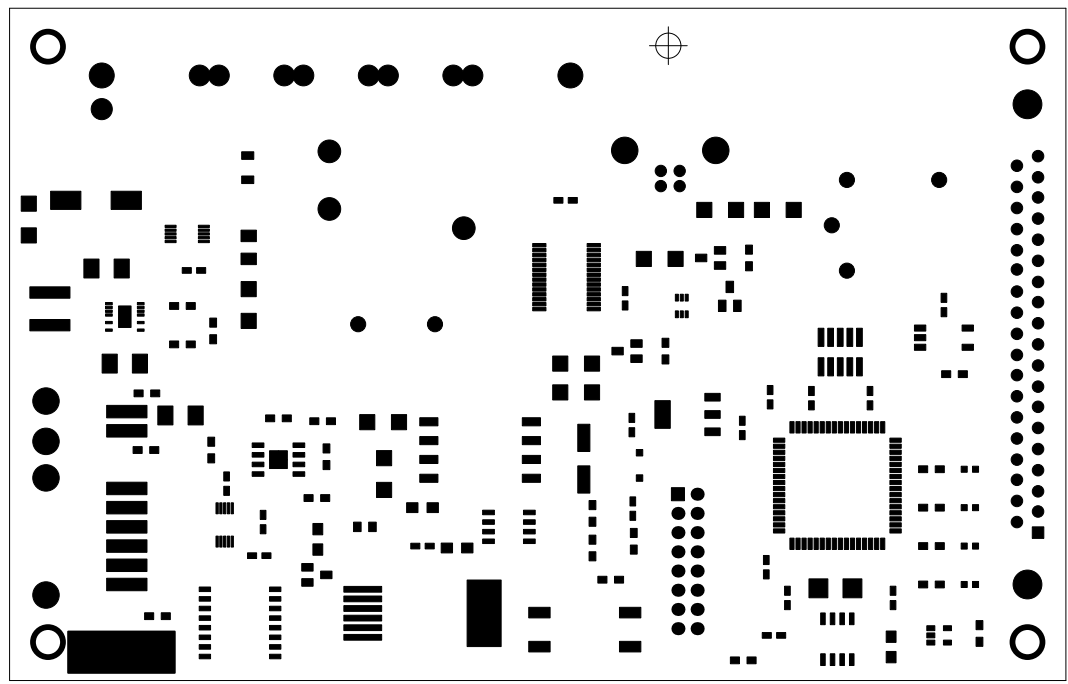
Spring 2016  
Supervisor: Chris Nadovich  
Engineer: Geoff Nudge  
**Lafayette College ECE**  
Sheet:  
File: pacman-main.kicad\_pcb

<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4
Id: 1/1	



Spring 2016  
 Supervisor: Chris Nadovich  
 Engineer: Geoff Nudge  
**Lafayette College ECE**  
 Sheet:  
 File: pacman-main.kicad\_pcb

<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4
	Id: 1/1

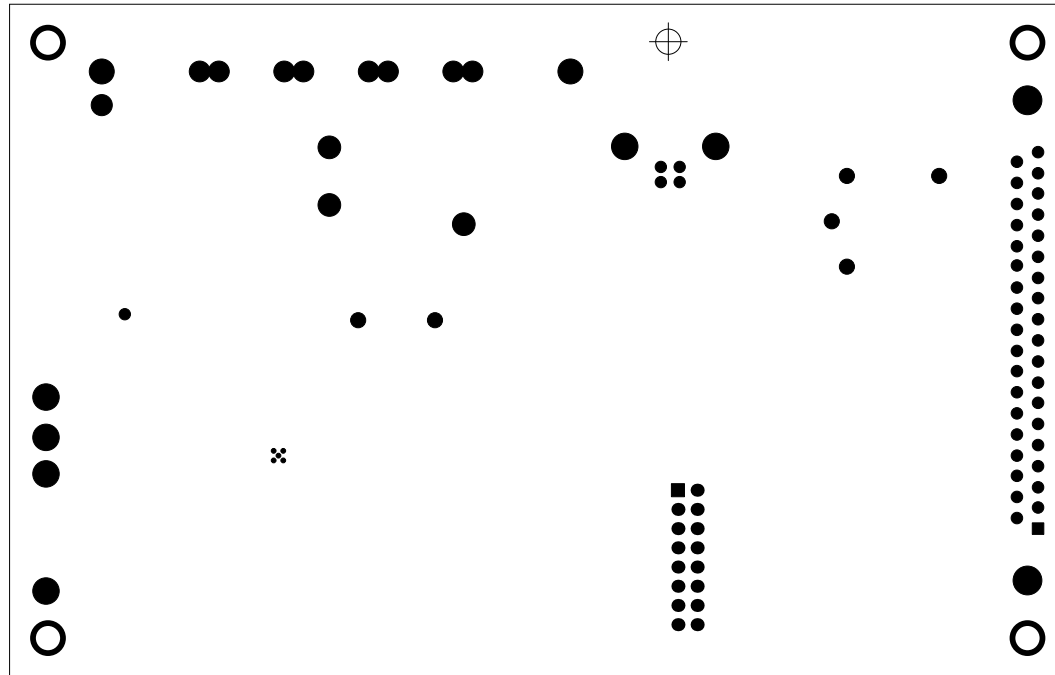


Spring 2016  
Supervisor: Chris Nadovich  
Engineer: Geoff Nudge  
**Lafayette College ECE**

Sheet:  
File: pacman-main.kicad\_pcb

<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4
	Id: 1/1

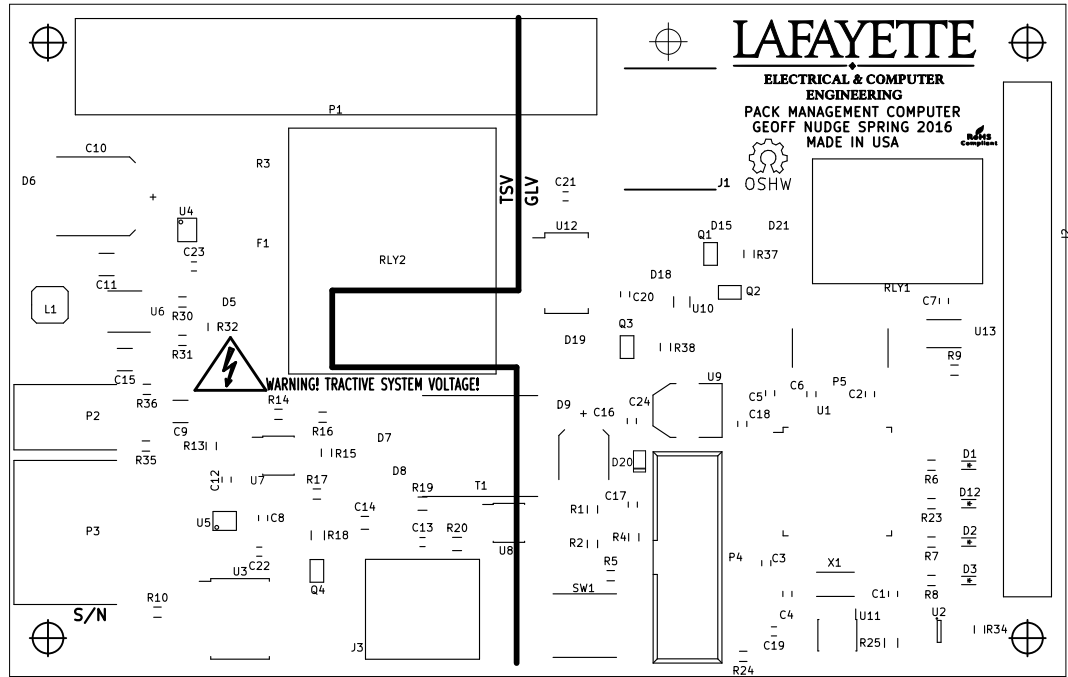




Spring 2016  
 Supervisor: Chris Nadovich  
 Engineer: Geoff Nudge  
**Lafayette College ECE**

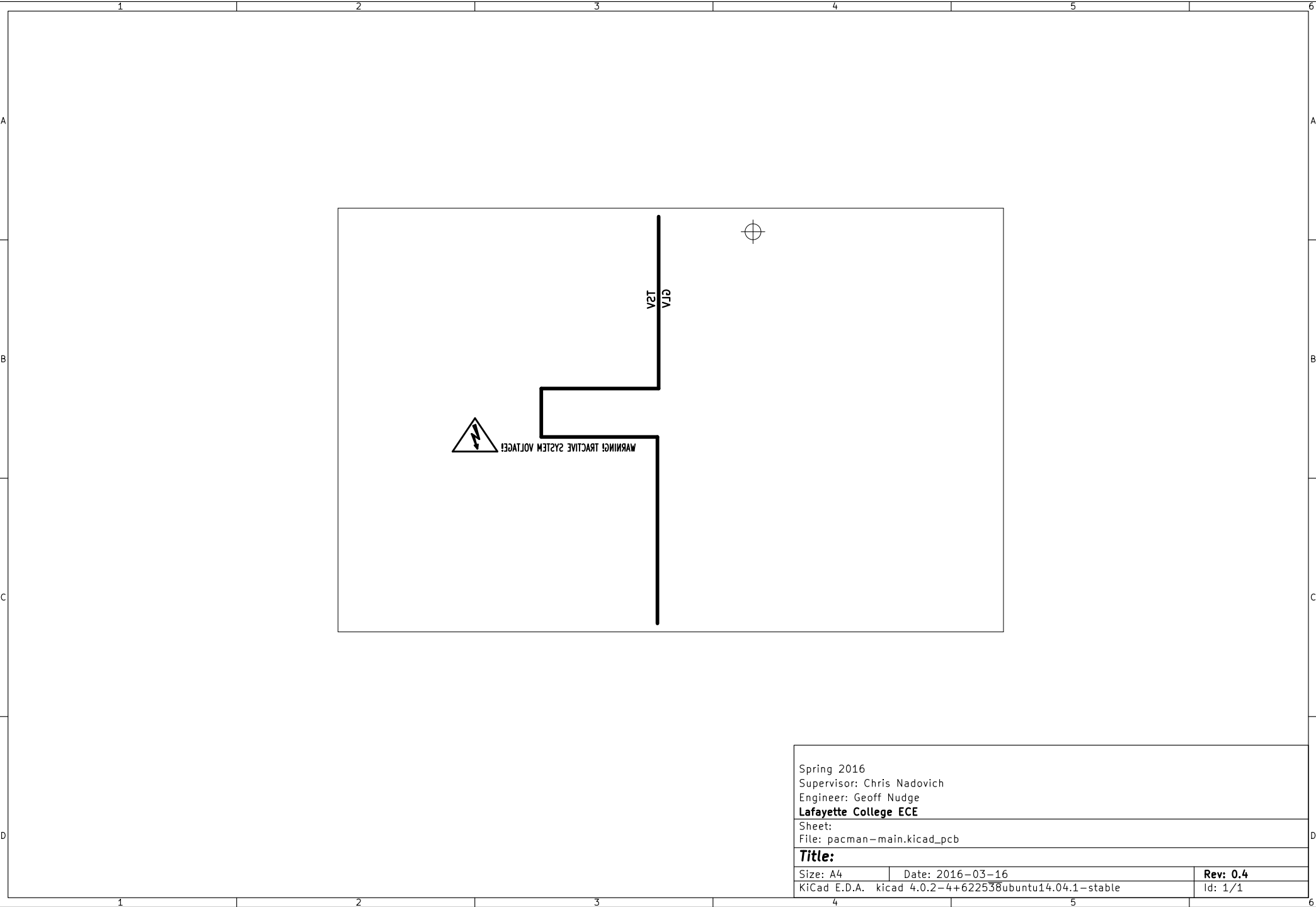
Sheet:  
 File: pacman-main.kicad\_pcb

<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4
	Id: 1/1



Spring 2016  
 Supervisor: Chris Nadovich  
 Engineer: Geoff Nudge  
**Lafayette College ECE**  
 Sheet:  
 File: pacman-main.kicad\_pcb

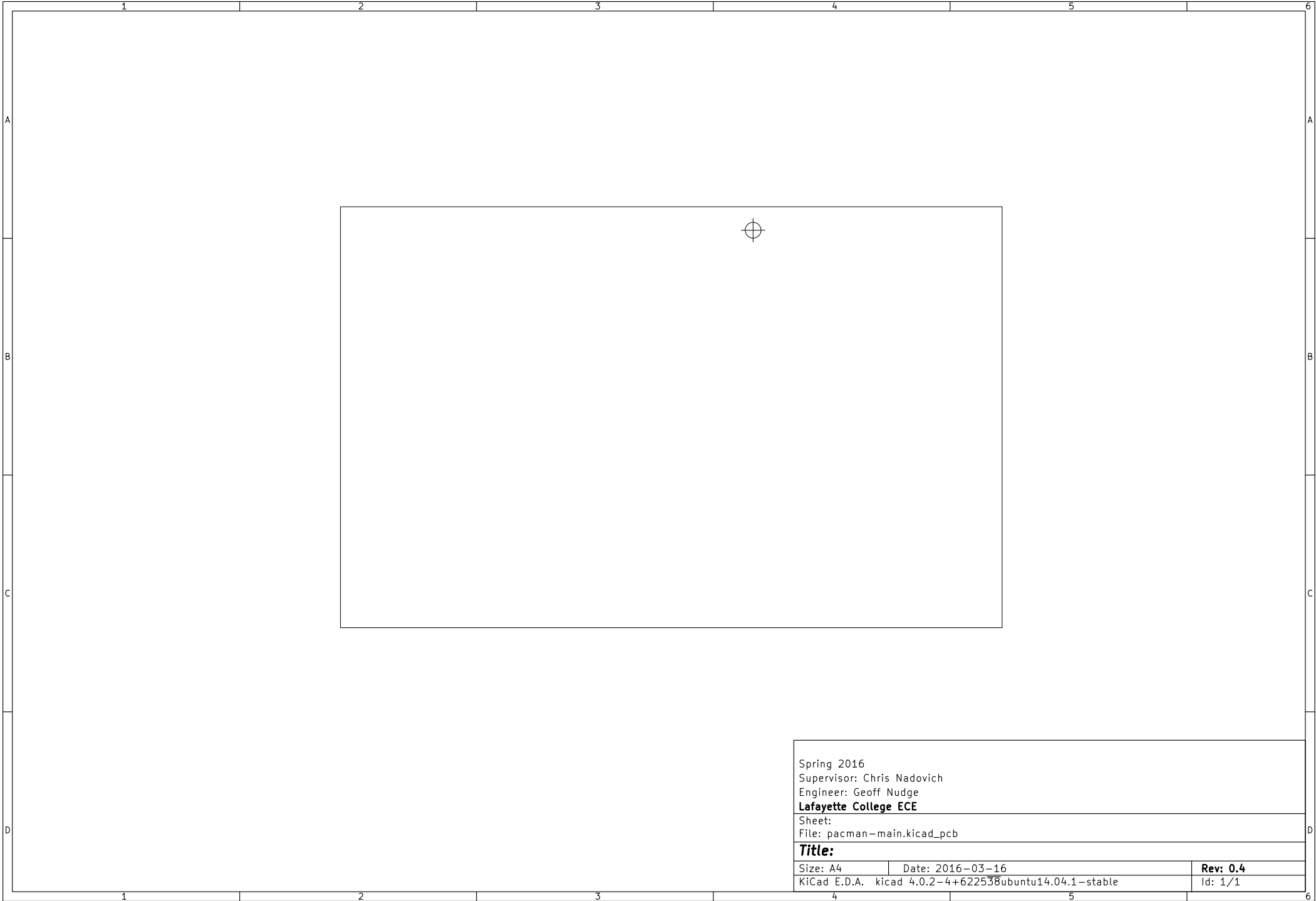
<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4 Id: 1/1



Spring 2016  
 Supervisor: Chris Nadovich  
 Engineer: Geoff Nudge  
**Lafayette College ECE**

Sheet:  
 File: pacman-main.kicad\_pcb

<b>Title:</b>		<b>Rev: 0.4</b>
Size: A4	Date: 2016-03-16	
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable		Id: 1/1



Spring 2016  
Supervisor: Chris Nadovich  
Engineer: Geoff Nudge  
**Lafayette College ECE**

Sheet:  
File: pacman-main.kicad\_pcb

<b>Title:</b>	
Size: A4	Date: 2016-03-16
KiCad E.D.A. kicad 4.0.2-4+622538ubuntu14.04.1-stable	Rev: 0.4
Id: 1/1	

