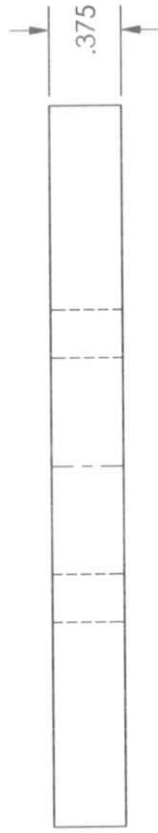


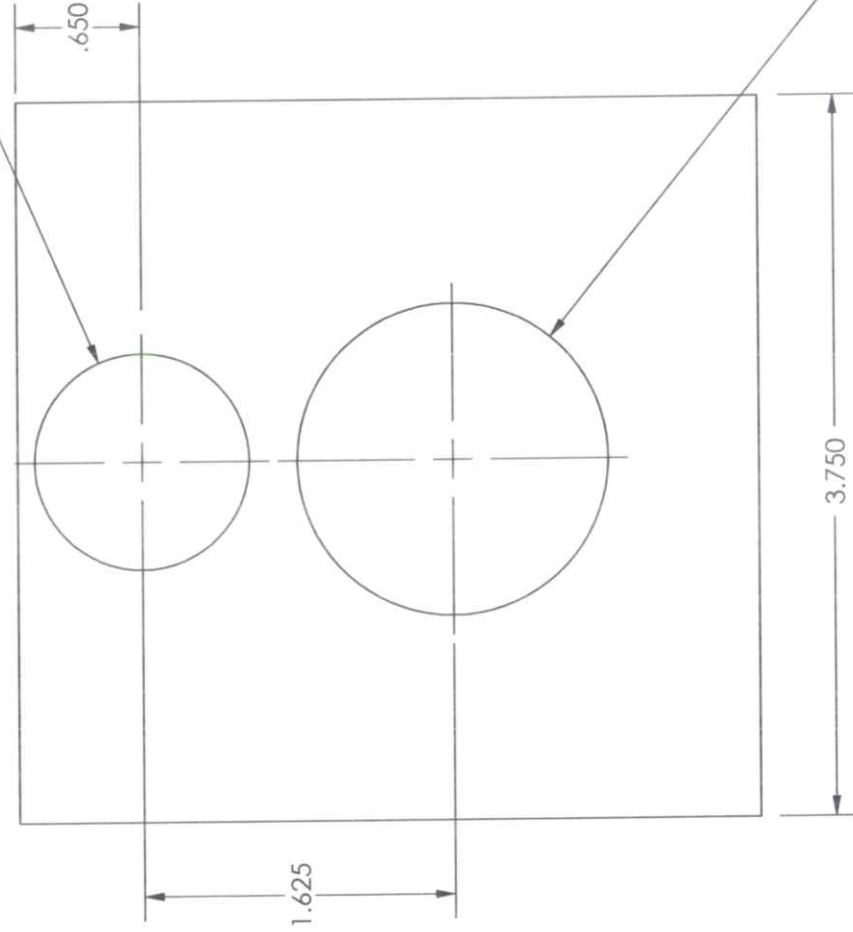
Mechanical Engineering
GALPOLY

ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance: ± 0.005 in	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:1	Title: Stem	
Material: 6061 Al	Date: 05/01/09	Drawing #:	



$\phi 1.125$



$\phi 1.625$



SolidWorks Student License

Academic Use Only

ME153 - Winter 2008

Ckd By:

Init:

Drawn By:

Init:

Scale: 1:1

Next Assy:

Drawing #:

Units: Inches

Tolerance: $\pm .010$

Title: Base Plate

Material: Al 6061-T6

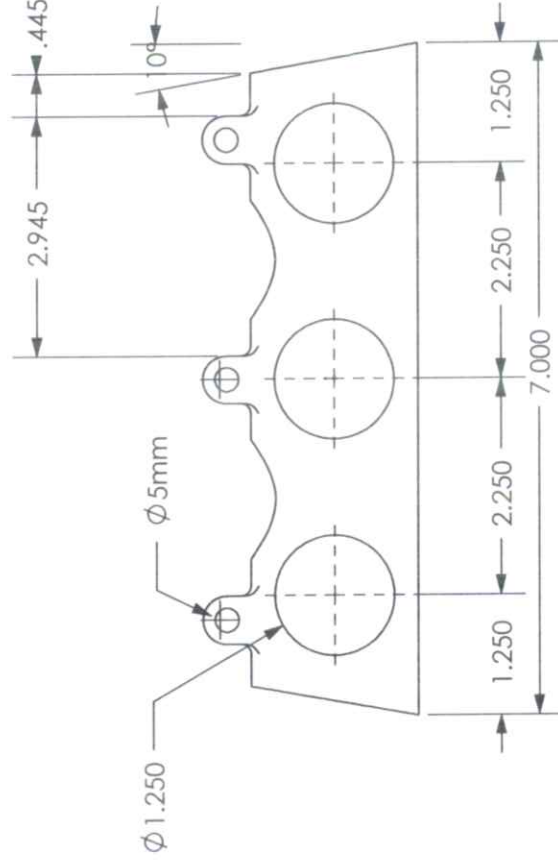
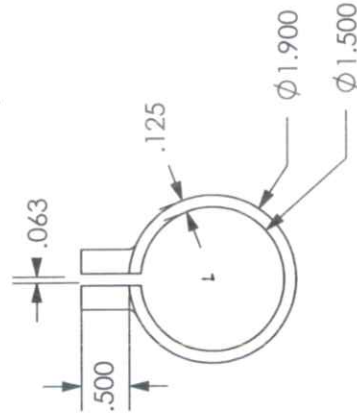
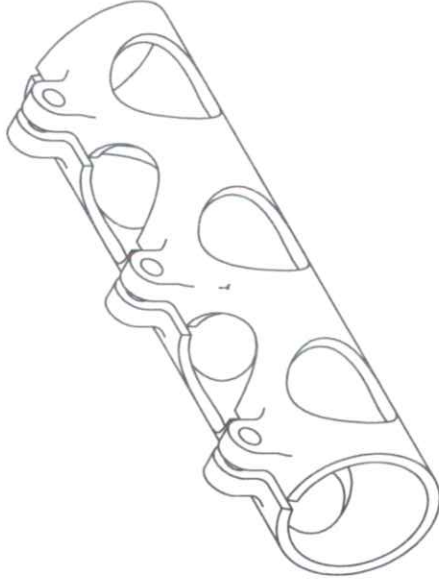
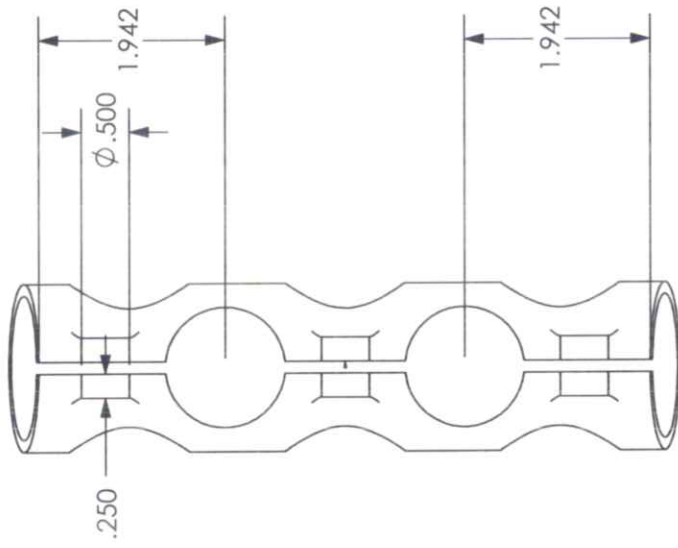
Date: 1/22/09

Group: MEPowered

Drill center hole 0.025in OD 3.25 in deep

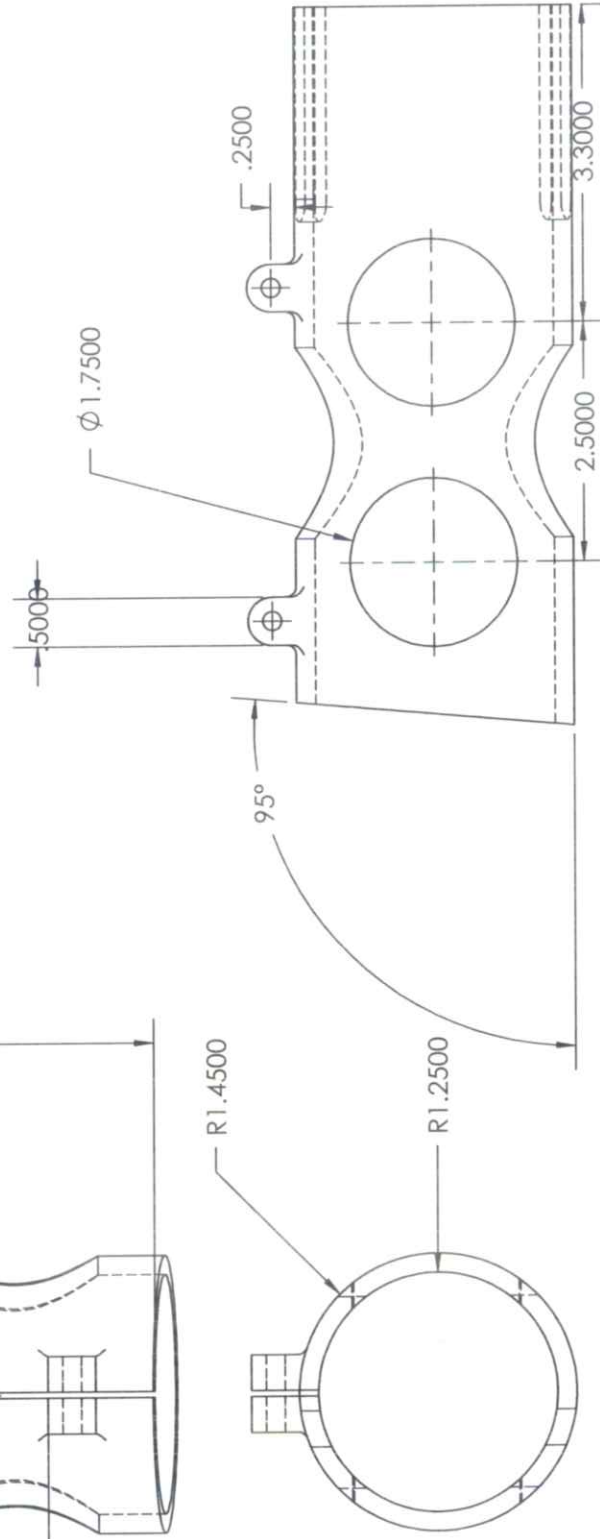
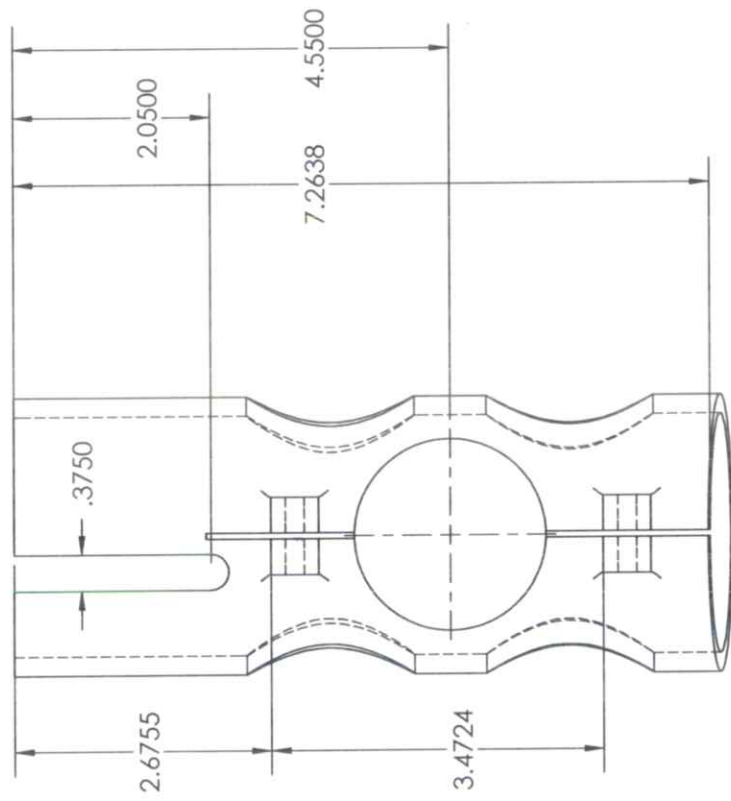


Ckd By:	Init:	Drawing By:	Init:
Tolerance: ±0.005	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:1	Title: Intermediate Shaft	
Material: 4130 Chromolly	Date: 05/01/2009	Drawing #:	



ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance: ± 0.10	Units: Inches	Group: ME-Powered	
Next Assy:	Scale: 1:2	Title:	
Material: Al 6061-T6	Date: 04/23/2009	Drawing #: Junction Sleeve-1	



Ckd by:

Date:

Tolerance:

Next Assy:

Units:

Scale: 1:1

Drawing #:

Init:

Drawn By:

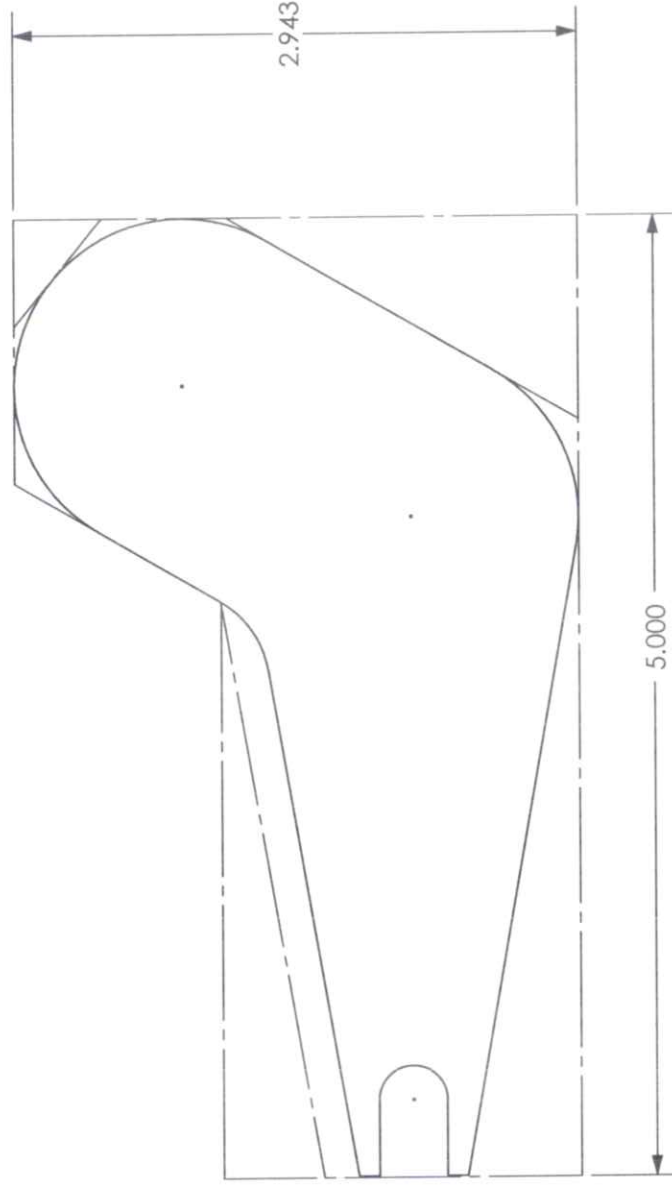
Group:

Material:

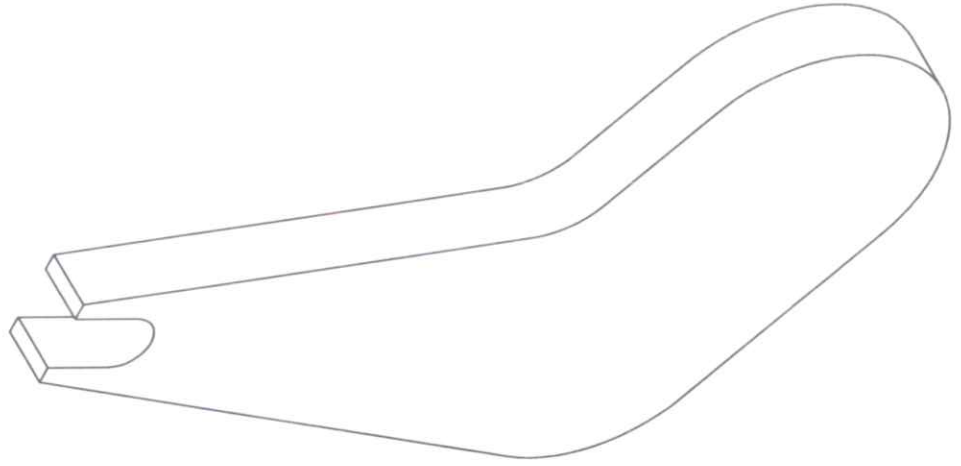
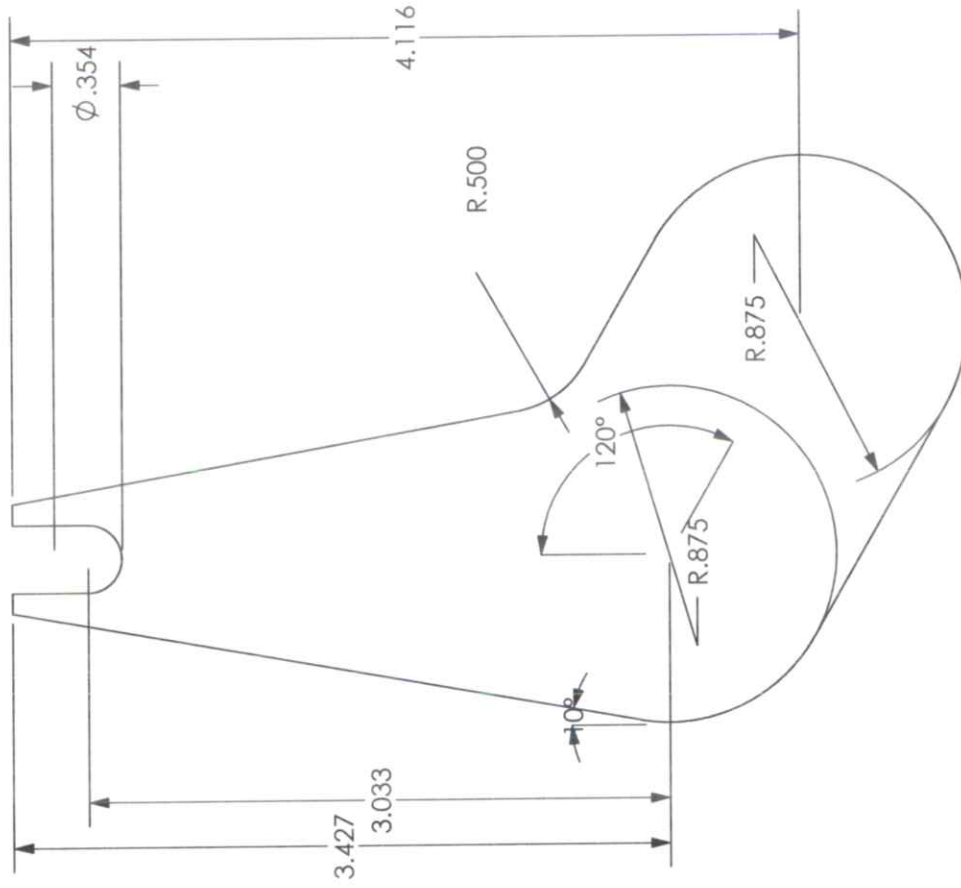
Title: Right/ Left Plate Cutout Detail

Init:

1. Cutout template and transfer to aluminum piece
2. Drill pilot hole for 9mm hole
3. Drill 9mm hole
4. Drill pilot holes for other holes to help locate center later (its important that we have the cross members in the corret location)
5. Cut outside dotted line
6. Cut slots using bandsaw with guide
7. Cut angles with bandsaw (cut right angle along dotted line first)
8. Finish angle and radius on right side with combination of bandsaw and grinder
9. Use belt sander to finish remaining radii

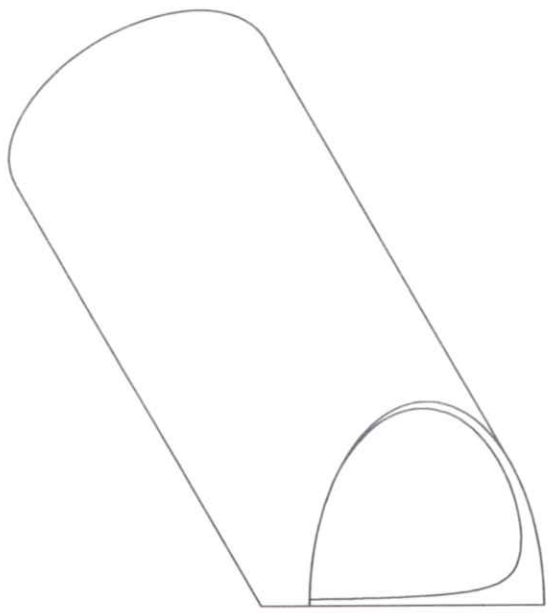
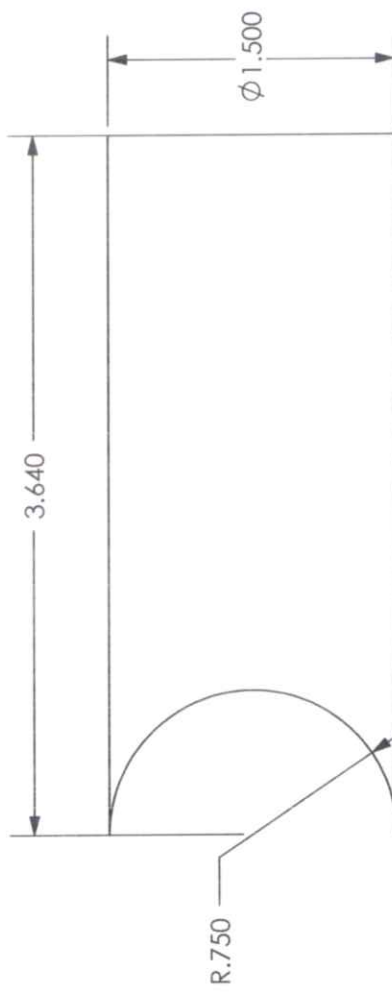


Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16"$	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:1	Title: BT06-6, Inches TEMPLATE	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	

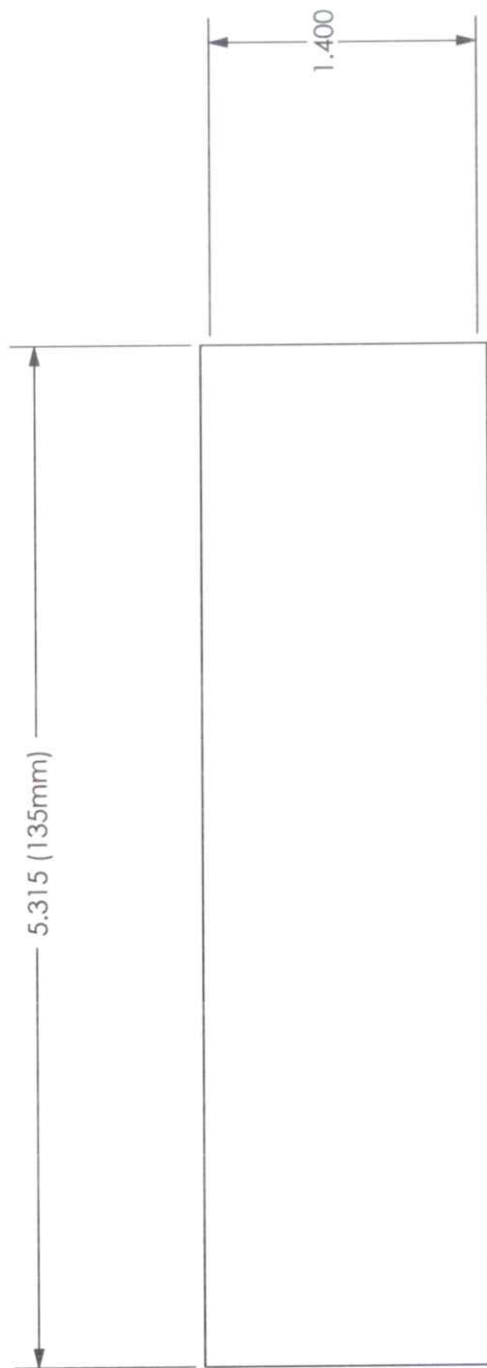
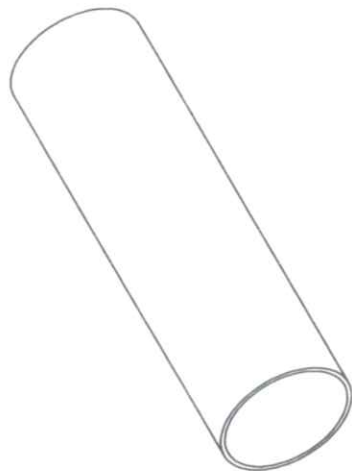


Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16$ "	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:1	Title: BT06-6, Inches	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	


Mechanical Engineering
 C A L P O L Y
 ME153 Spring 2007

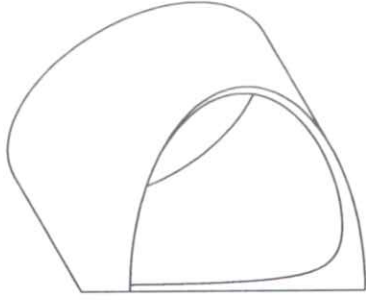
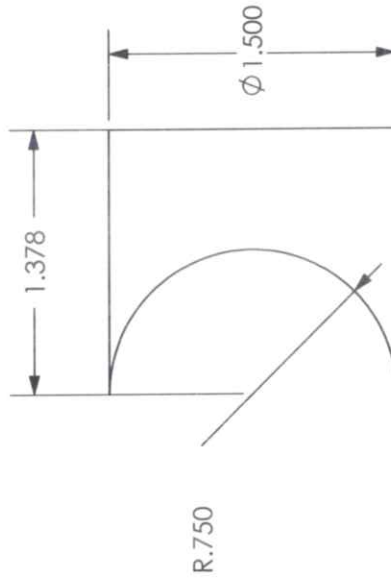


Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16"$	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:2	Title: BT06-5, Inches	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	



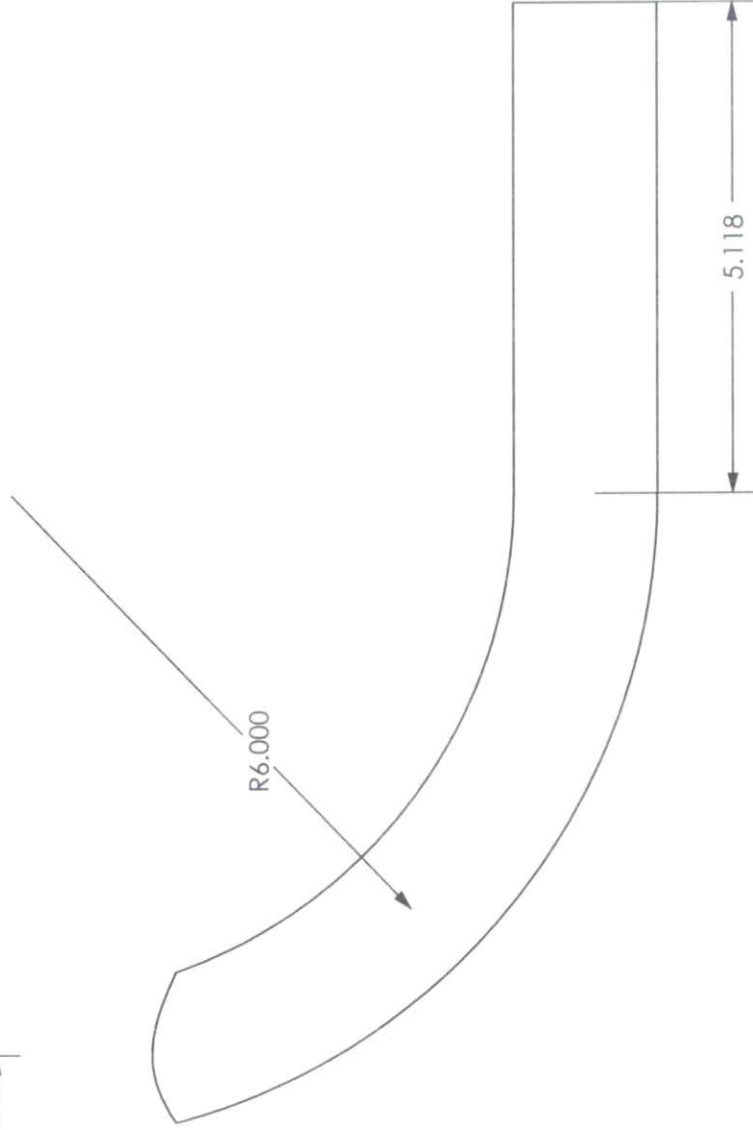
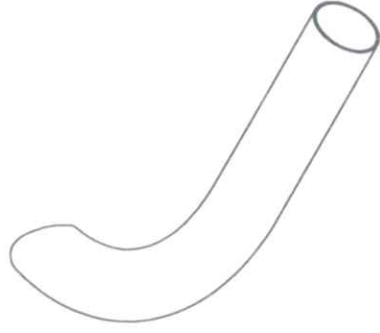
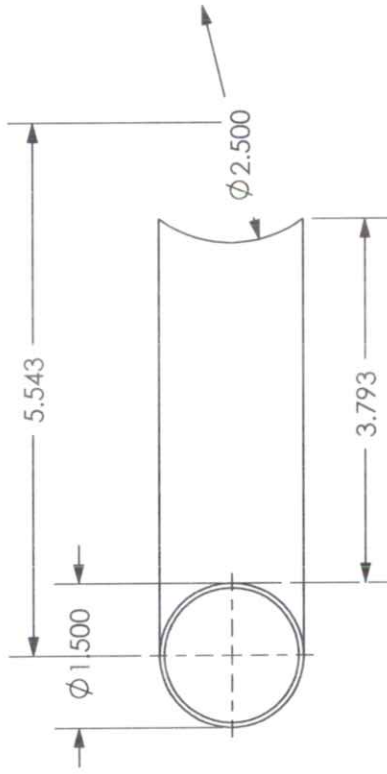
ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16"$	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:2	Title: BT06-4, Inches	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	

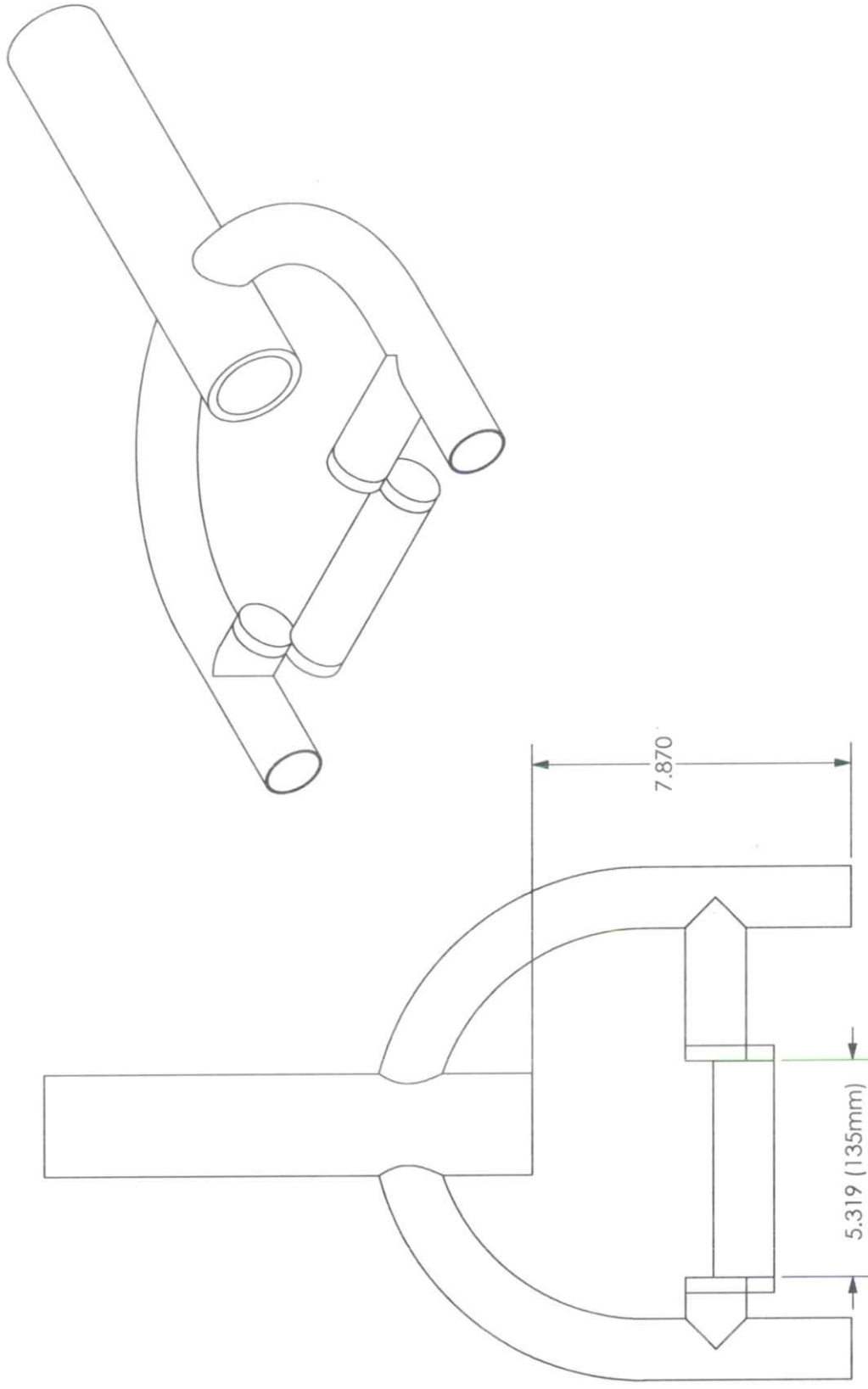


ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16"$	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:2	Title: BT06-3, Inches	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	



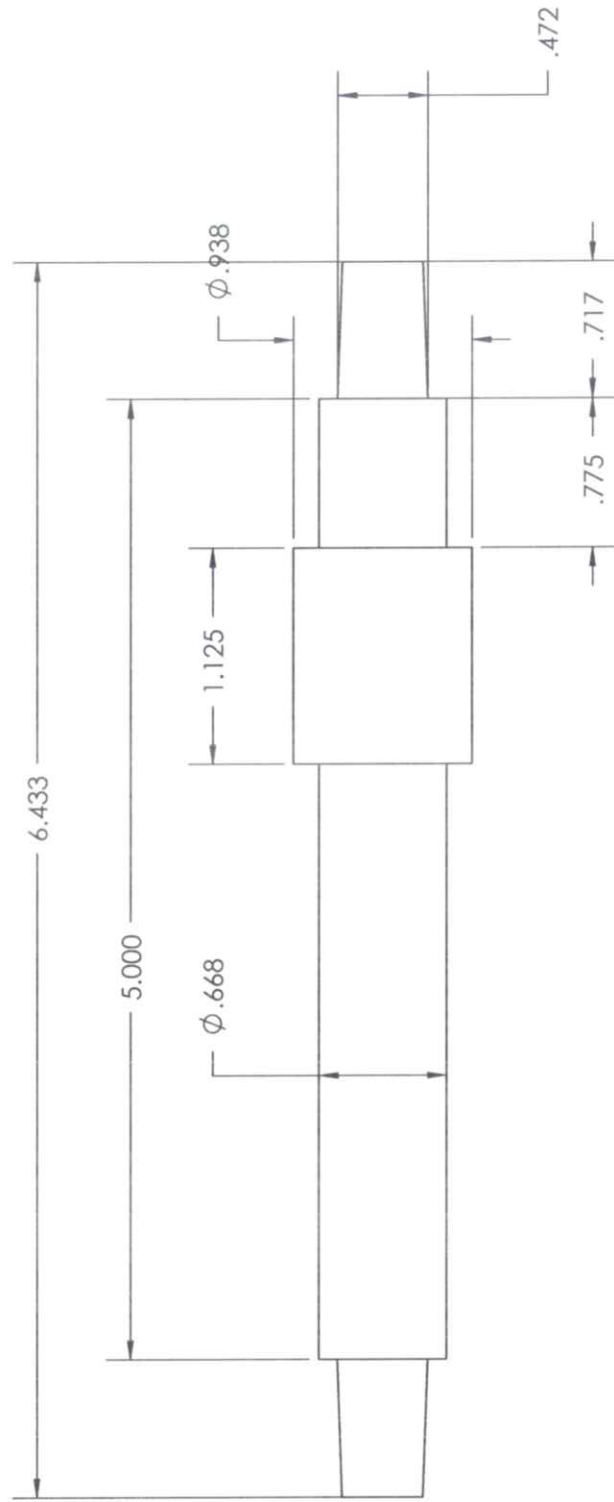
Ckd By:	Init:	Drawing By:	Init:
Tolerance: $\pm 1/16"$	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:2	Title: BT06-2, Inches	
Material: 6160-T6 Al	Date: 05/13/2009	Drawing #:	



Ckd By:	Init:	Drawing By:	Init:
Tolerance:	Units: Inch	Group: MEPowered	
Next Assy:	Scale: 1:2	Title: Subframe Assembly, Resized	
Material: 6061 T-6 Al	Date: 05/13/2009	Drawing #:	

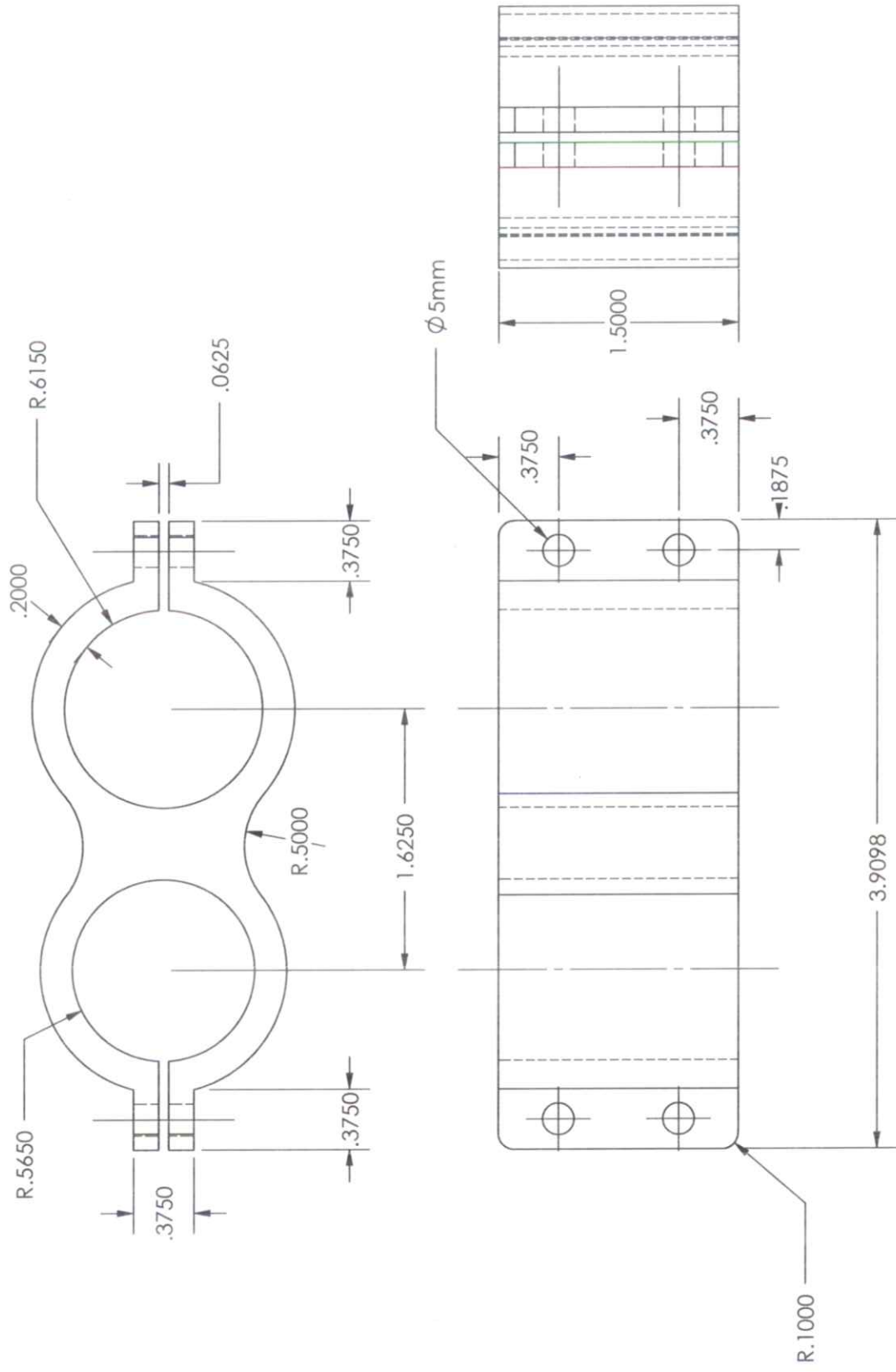
NOTES:

Drill pilot hole thru shaft for M8 shaft
 Tap holes for M8 threads 0.625" deep at each end of shaft
 Tapers to be CNCmilled



ME153 - Spring 2009

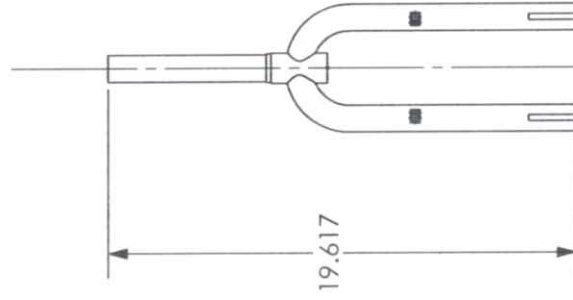
Ckd by:	Init:	Drawn By:	Init:
Date: 05/01/2009	Units: Inches	Group:	
Tolerance: ± 0.005	Scale: 1:1	Material: 4130 Chromolly Steel	
Next Assy:	Drawing #:	Title: Gear Housing Spindle	



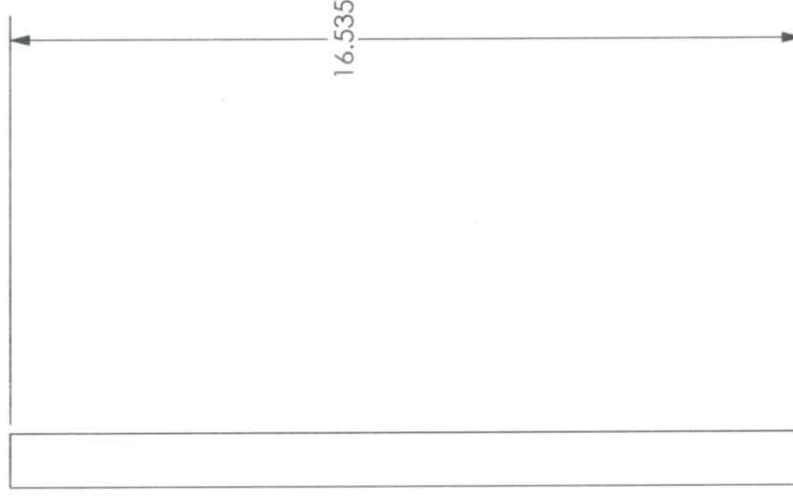
Ckd By:	Init:	Drawn By:	Init:
Scale: 1:1	Next Assy:	Drawing #:	
Units: Inches	Tolerance: ±0.0020	Title: Flex Shaft Clamp	
Material: Al 6061-T6	Date: 4/21/09	Group: MEPowered	


Mechanical
 SolidWorks Student License
 Academic Use Only
ME153 - Winter 2008

Total length of fork and steertube = 36.152 in



Fork



Steer Tube Extension

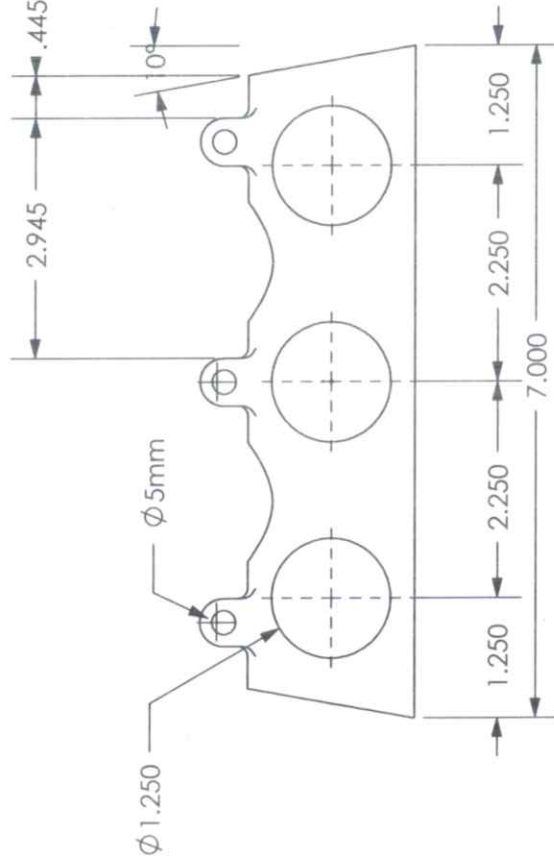
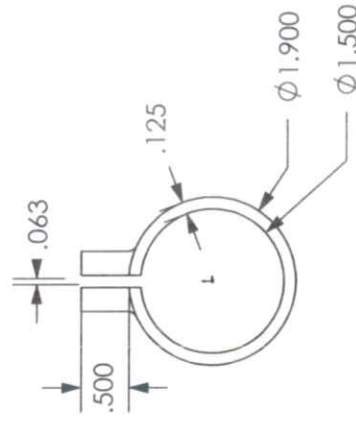
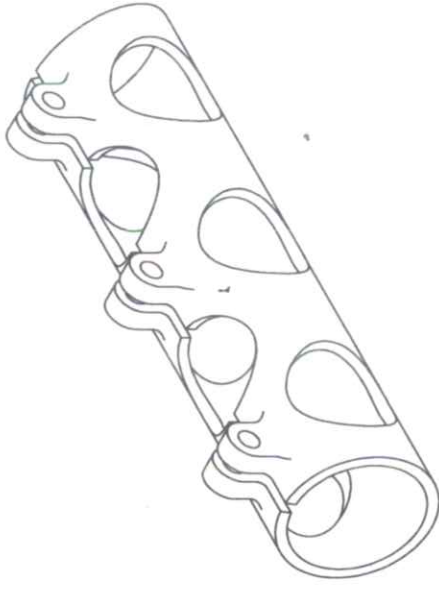
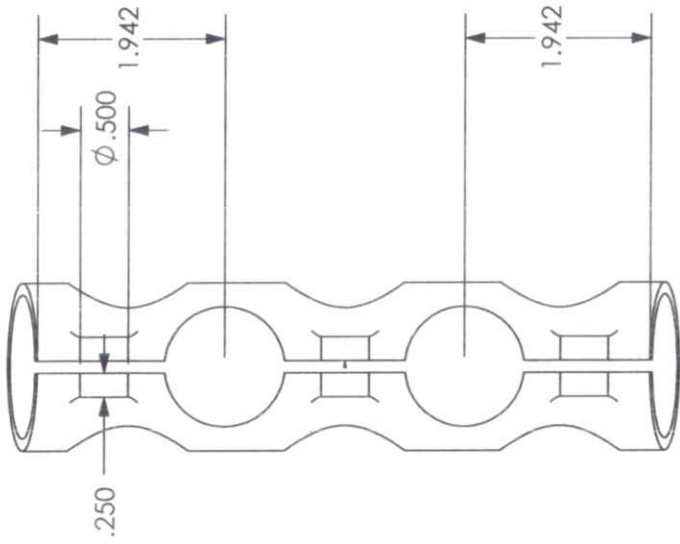


Headtube



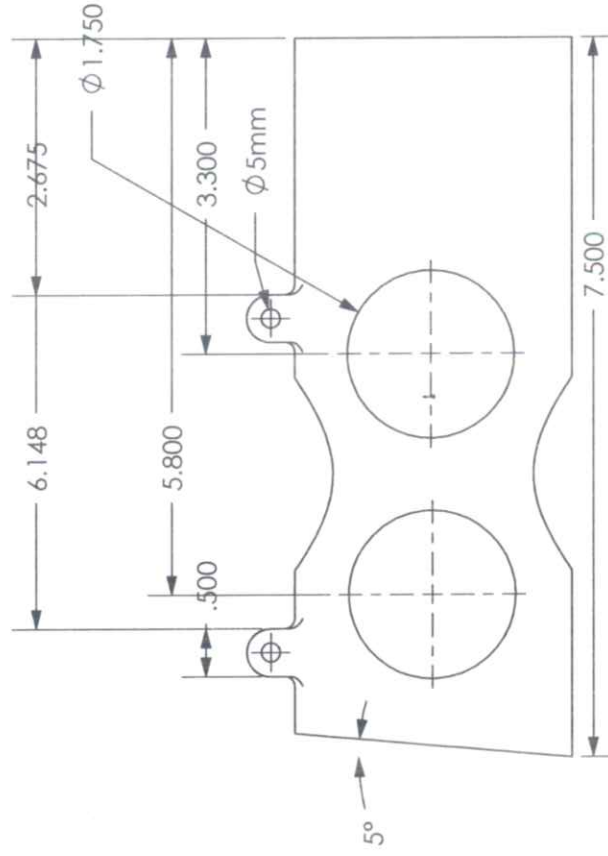
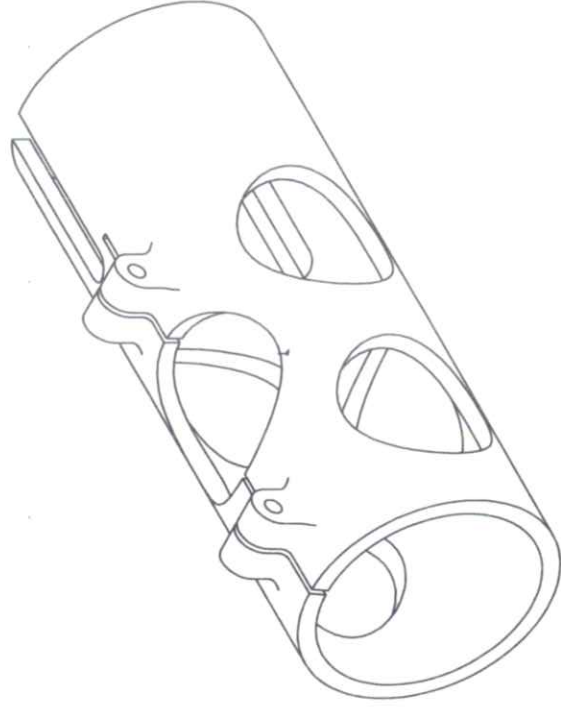
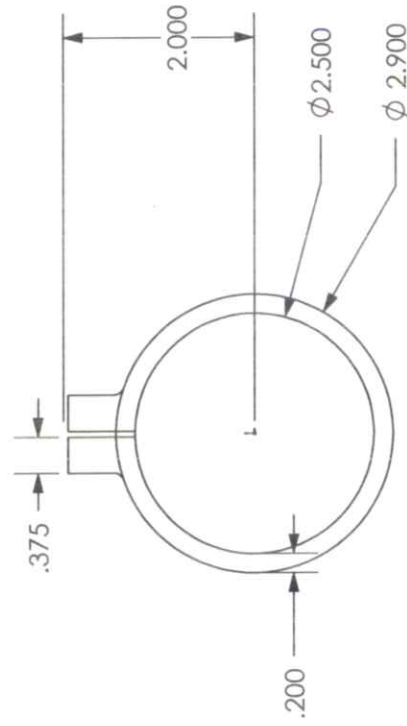
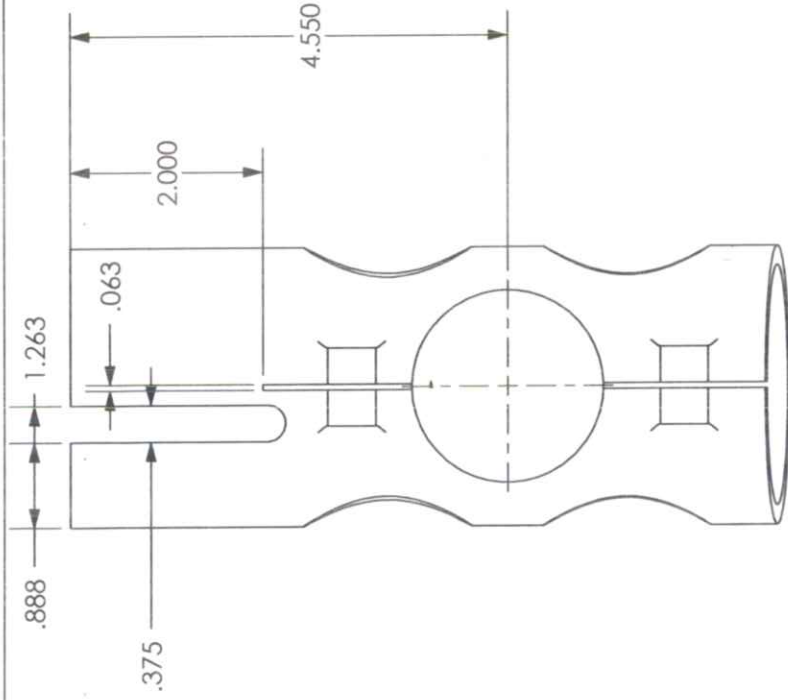
ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance:	Units: Inch	Group: MEPowered	
Next Assy:	Scale:	Title:	
Material:	Date:	Drawing #:	



ME153 Spring 2007

Ckd By:	Init:	Drawing By:	Init:
Tolerance: ± 0.10	Units: Inches	Group: ME-Powered	
Next Assy:	Scale: 1:2	Title:	
Material: Al 6061-T6	Date: 04/23/2009	Drawing #: Junction Sleeve-1	



Ckd By:

Init:

Drawing By:

Init:



Tolerance: ± 0.10

Units: Inches

Group: ME-Powered

Next Assy:

Scale: 1:2

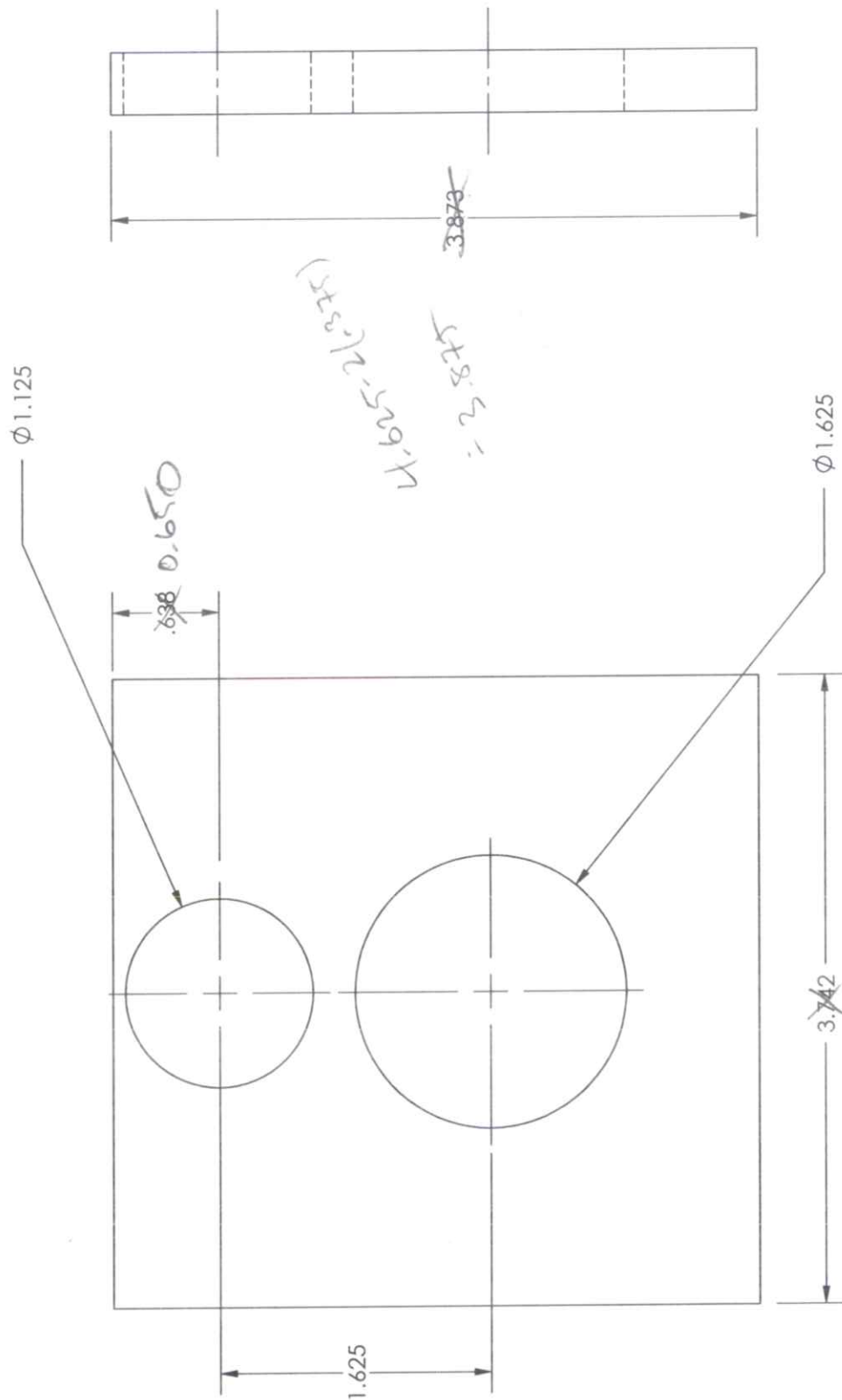
Title:

Material: Al 6061-T6

Date: 04/23/2009

Drawing #: Junction Sleeve-2

ME153 Spring 2007

[illegible]

Mechanical

SolidWorks Student License Scale: 1:1

Units: Inches

ME153 - Winter 2008

Ckd By:

Scale: 1:1

Init:

Next Assy:

Tolerance: $\pm .010$

Date: 1/22/09

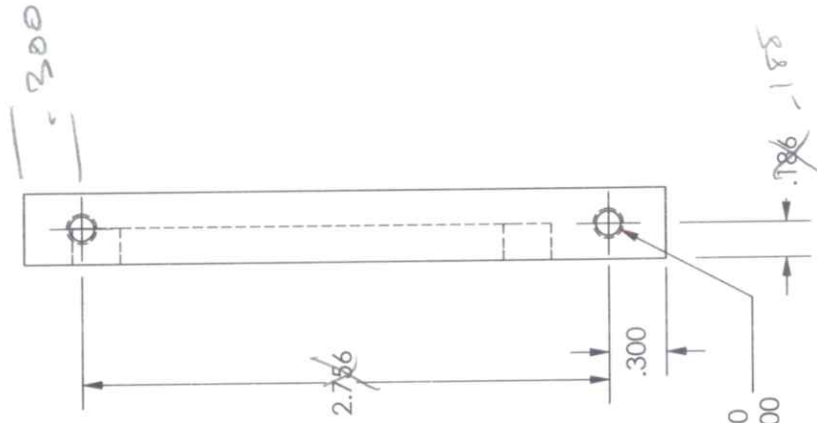
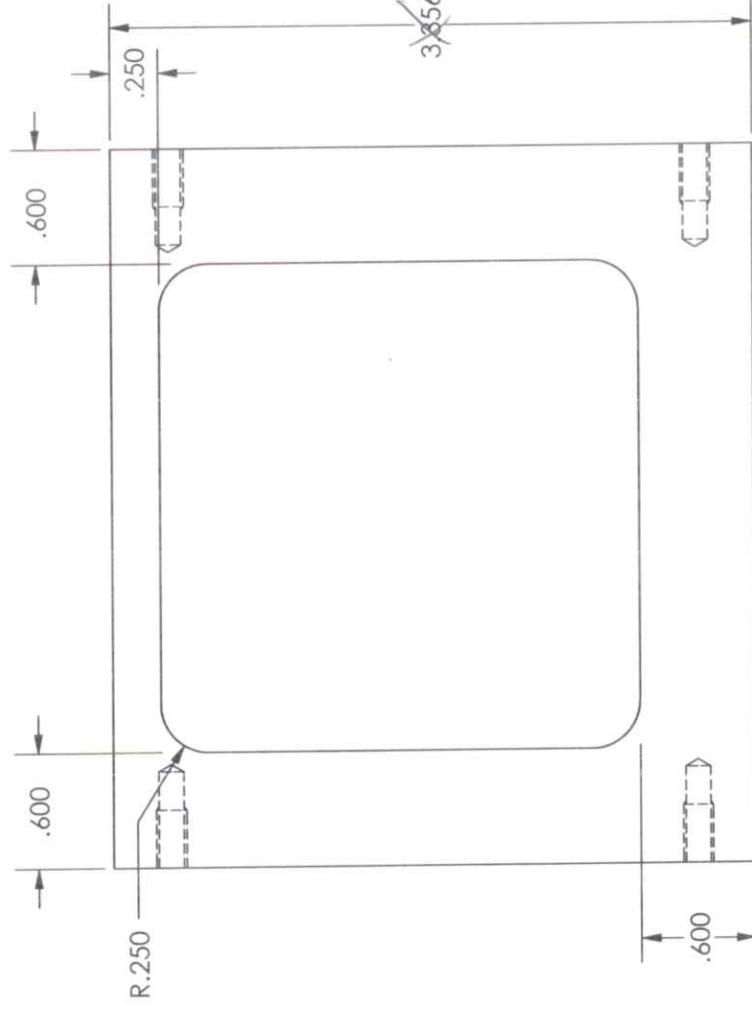
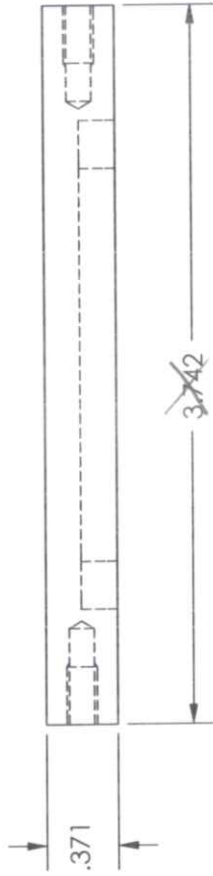
Drawn By:

Drawing #:

Title: Base Plate

Group: MEPowered

Init:



2X $\phi .130 \pm .005$
M4X0.7 - 6H $\pm .000$

Done

Ckd By:		Init:	Drawn By:	Init:
Scale: 1:1		Drawing #:		
Units: Inches		Title: Front Plate		
Material: Al 6061-T6		Group: MEPowered		



SolidWorks Student License
Academic Use Only

ME153 - Winter 2008

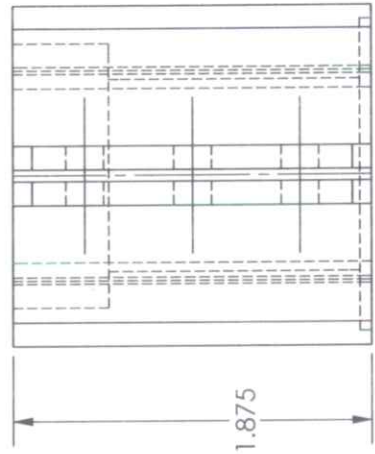
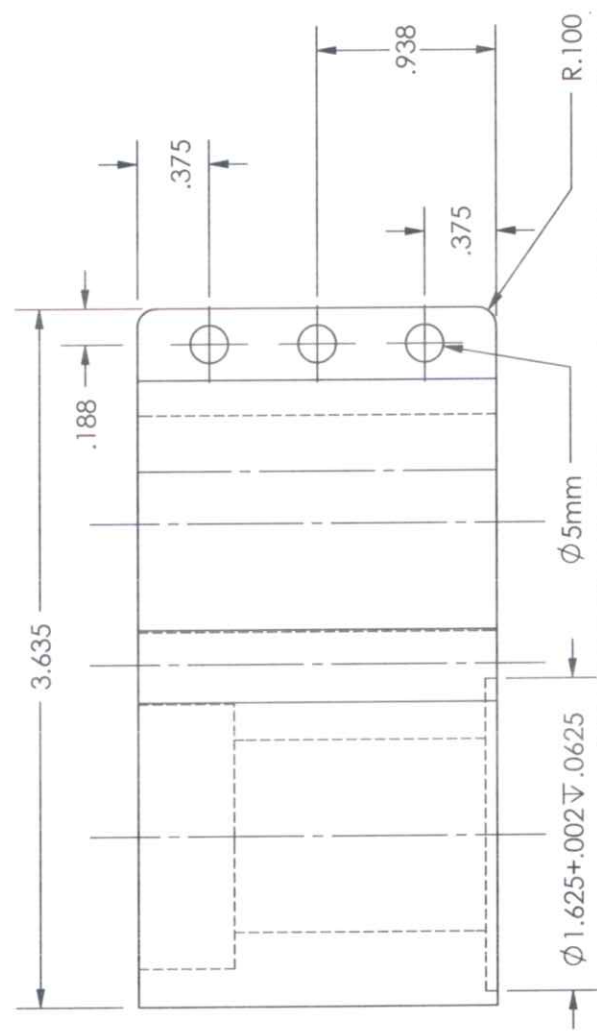
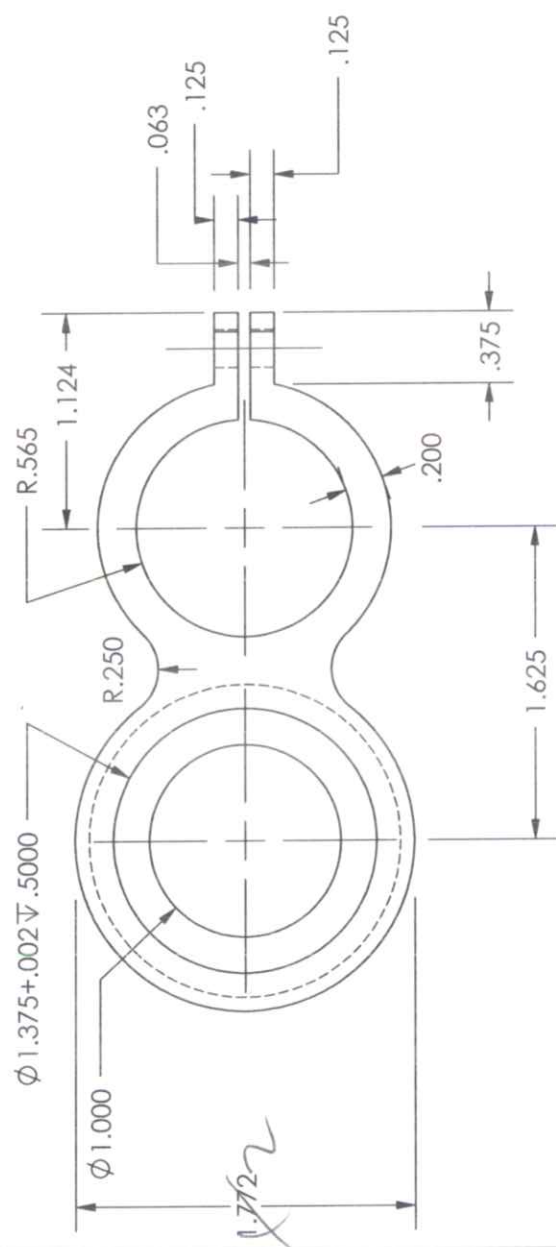


2X Ø .130 \pm .005
M4X0.7 - 6H \pm .005

 Mechanical SolidWorks Student License Academic Use Only ME153 - Winter 2008	Ckd By:	Init:	Drawn By:	Init:
	Scale: 1:1		Next Assy:	Drawing #:
	Units: Inches	Tolerance: ± 0.010		Title: Back Plate
	Material: Al 6061-T6	Date: 4/21/09		Group: ME/Powered

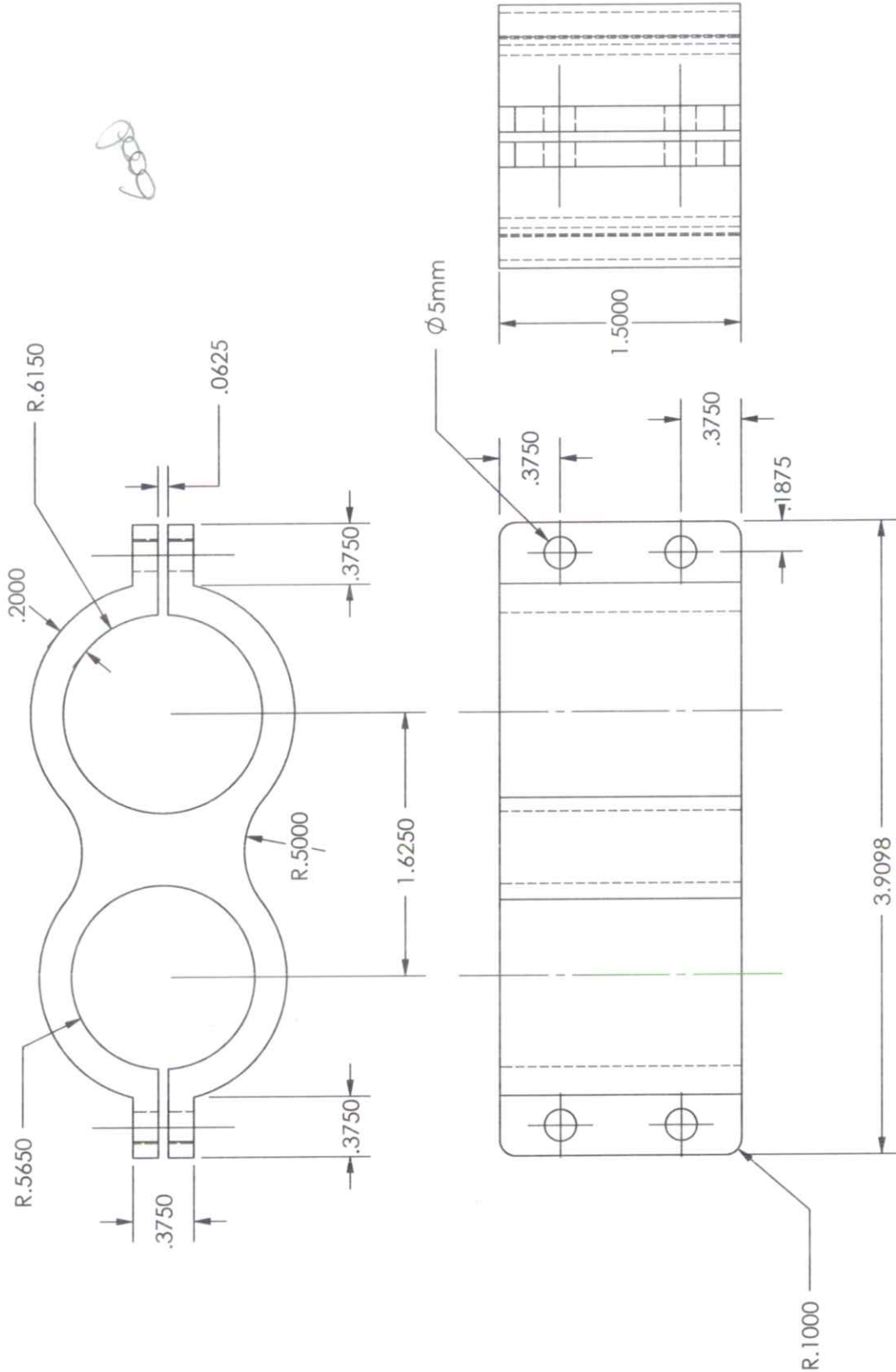
200
11.625
0.25

Done



Ckd By:		Init:	Drawn By:	Init:
Mechanical		Drawing #:		
SolidWorks Student License		Title: Stem		
Academic Use Only		Group: ME Powered		
Units: Inches		Date: 4/21/09		
Material: Al 6061-T6		Tolerance: ± 0.010		
Scale: 1:1		Next Assy:		

ME153 - Winter 2008



Ckd By:	Init:	Drawn By:	Init:
Scale: 1:1	Next Assy:	Drawing #:	
Units: Inches	Tolerance: ± 0.0020	Title: Flex Shaft Clamp	
Material: Al 6061-T6	Date: 4/21/09	Group: ME Powered	


Mechanical
SolidWorks Student License
Academic Use Only
ME153 - Winter 2008

