

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

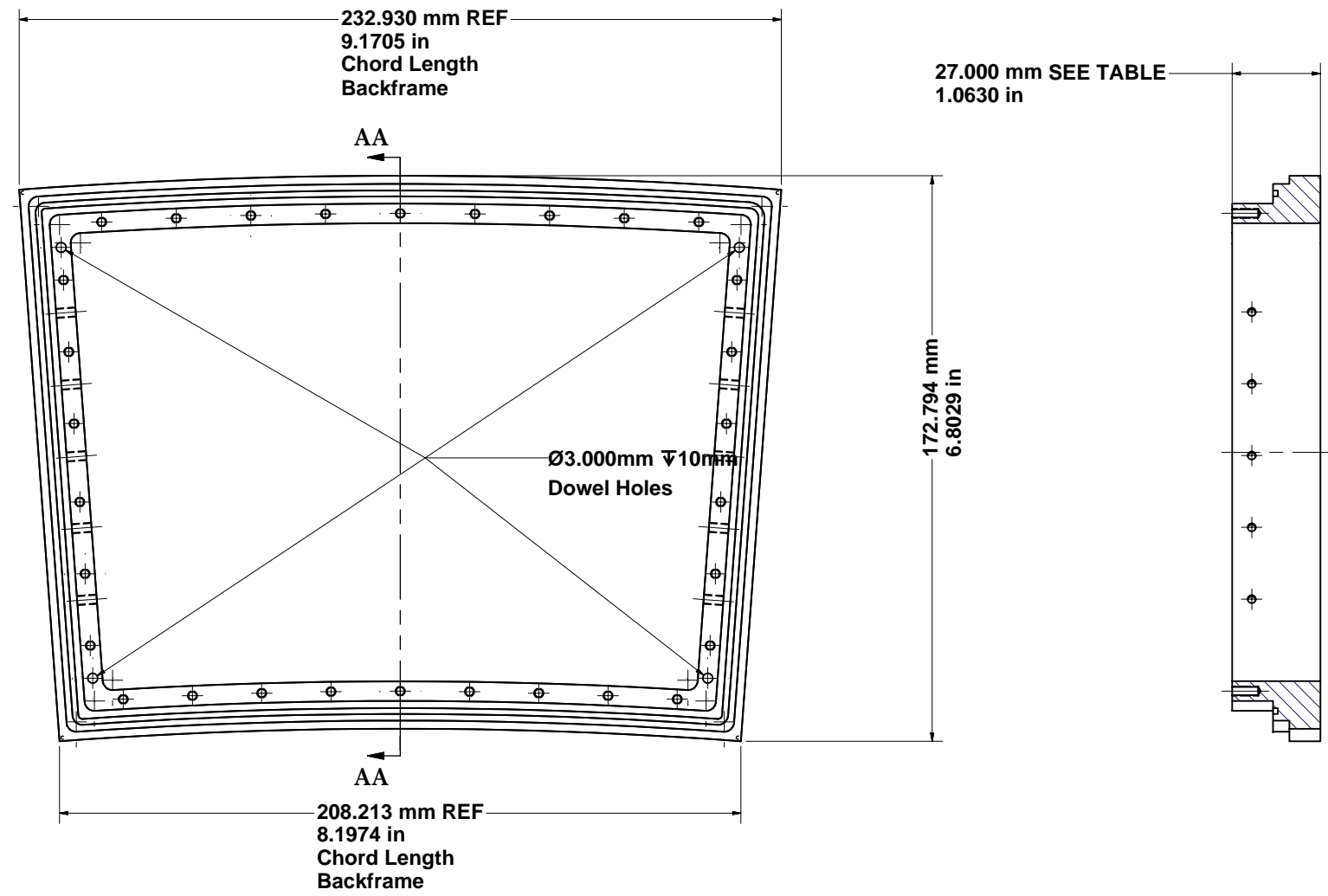
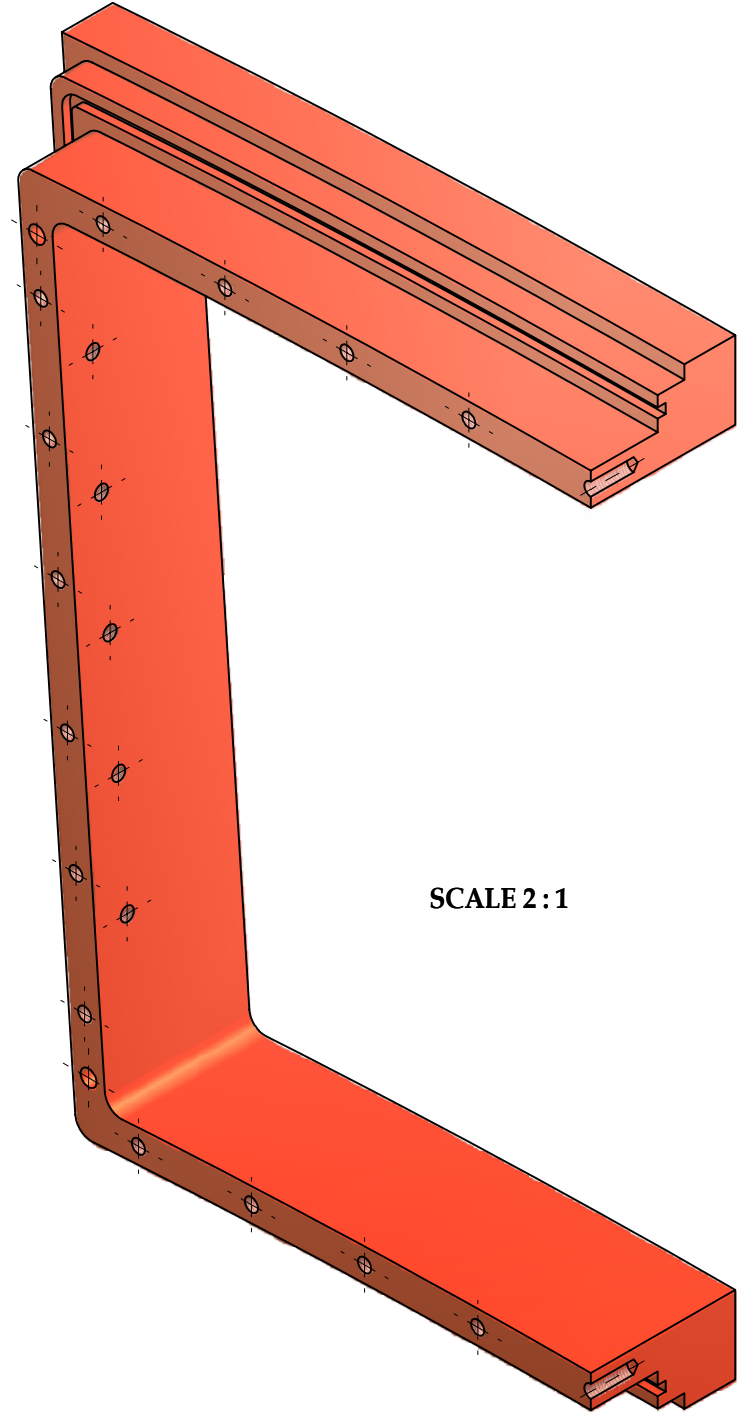


Table		
TYPE	NO.# REQ'd	DIM.
3GEMG	?	27.000 mm
Micromegas	?	41.800 mm
Pixel GEM	?	40.500 mm
3GEM No Gate	?	37.000 mm

SECTION AA-AA  
SCALE 1:1



SCALE 2:1

Matl: Alum. 6061 T651

Part requires multi-step process.

- 1) Machine all surfaces and holes (unless noted) leaving 0.030inch extra material. (At least 0.020inch of material is to be removed from all surfaces.)
- 2) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
- 3) Machine all surfaces and holes (unless noted) leaving 0.010inch extra material. (At least 0.010inch of material is to be removed from all surfaces.)
- 4) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
- 5) Machine all surfaces and holes to final specifications.

Technical questions, including clarifications and proposals for exceptions, are to be directed to  
**Dan Peterson**  
 Senior Physicist, Laboratory for Elementary-Particle Physics, Cornell University  
 607-255-8784  
 dpp@lepp.cornell.edu

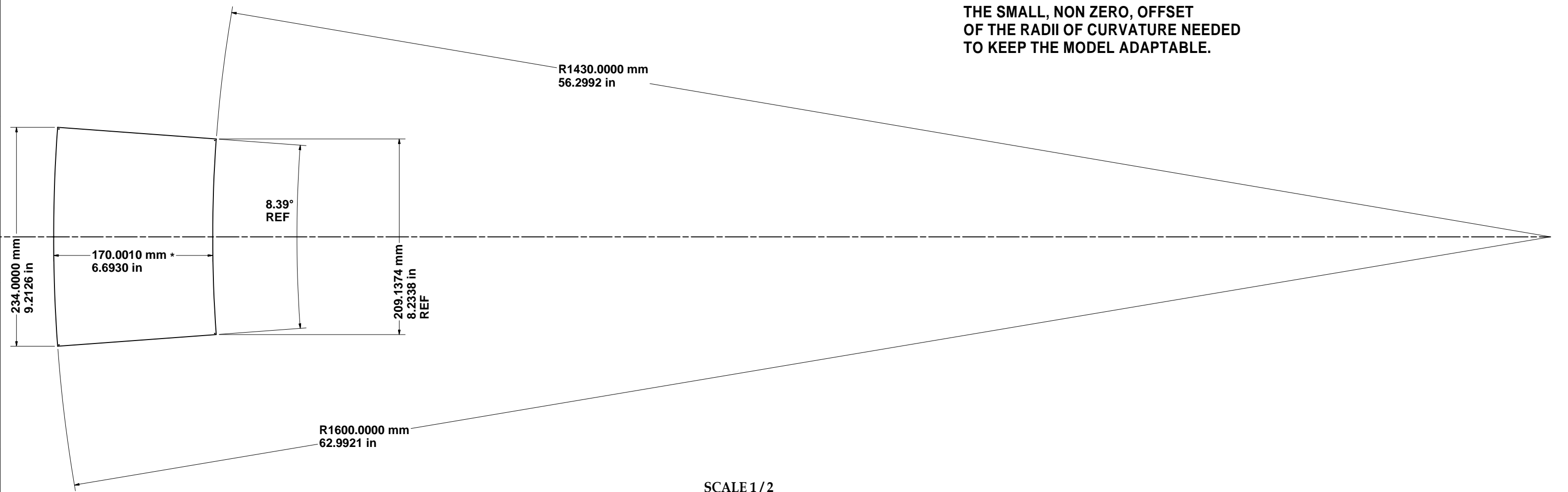
FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

D	PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
	CR-1	6080-104	6080-104	LCTPC Large Prototype Backframe					
PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853					
CHECKED BY: Peterson APPROVED BY: Peterson		DRAWN BY	DRAWN FOR	DATE	SCALE	D	6080-104	REV.	
		MDS	Peterson	10/19/2007	noted		SH. NO. 1 OF 12		

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



**\* NOTE: THIS DIMENSION INCLUDES THE SMALL, NON ZERO, OFFSET OF THE RADII OF CURVATURE NEEDED TO KEEP THE MODEL ADAPTABLE.**



**NOTE: This is the Bounding Box.**  
**It is an abstract geometrical shape,**  
**within which the module and all**  
**mountings for the module are defined.**

FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

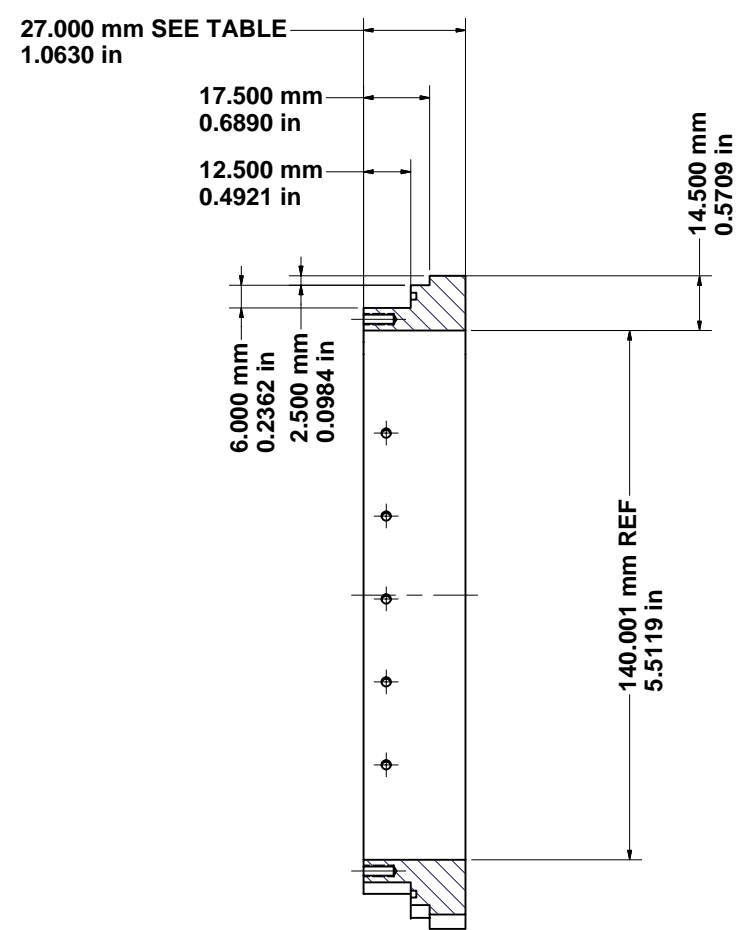
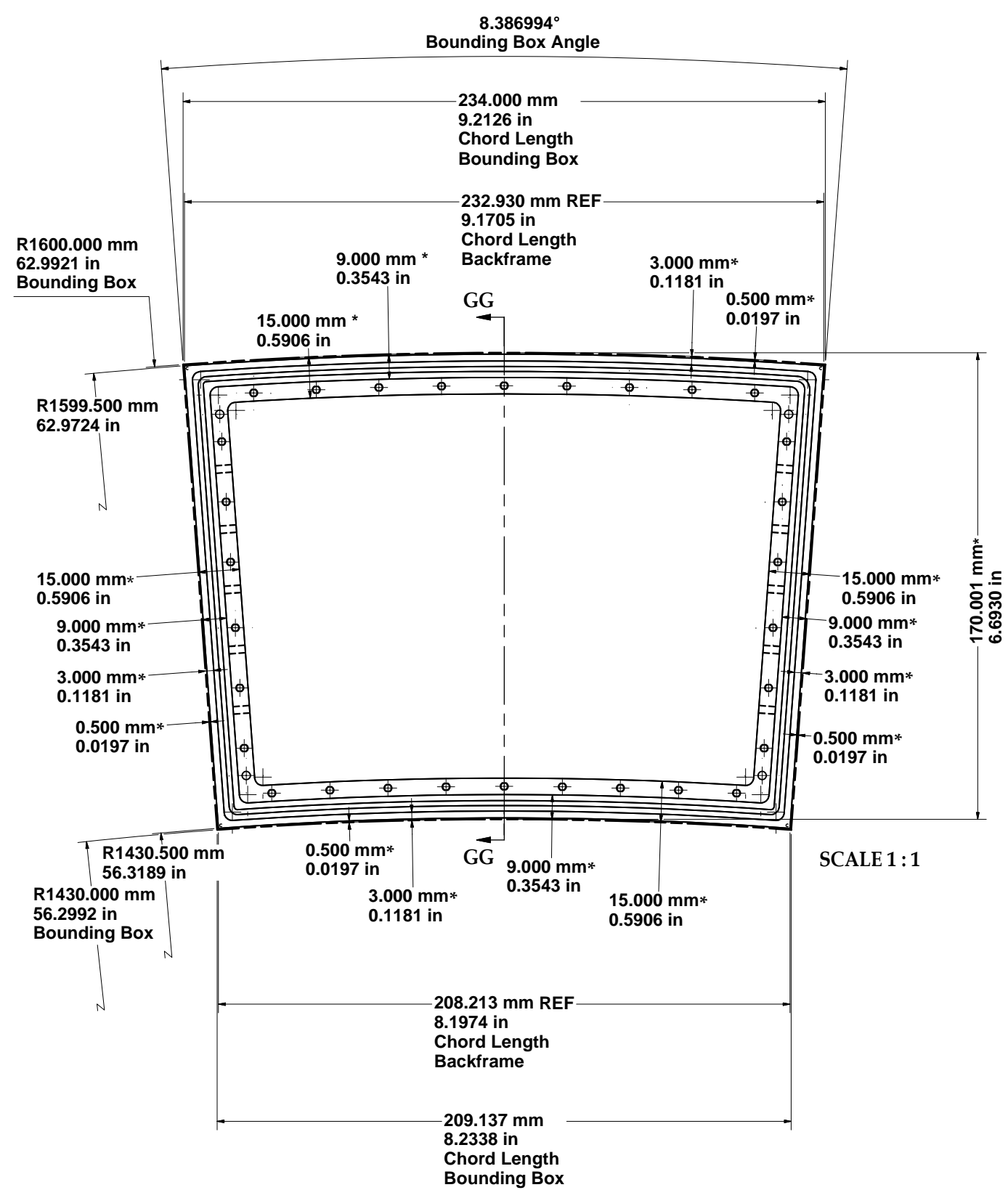
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

 D SH. NO. 2 OF 12	PRINT DISTR.	ITEM DWG. NO. DESCRIPTION G1 G2 G3 QUANTITY	PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw	REMARKS REV.				
	CR-1 UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		LCTPC Large Prototype Backframe				
REV.	CHECKED BY: Peterson APPROVED BY: Peterson	DRAWN BY MDS	DRAWN FOR Peterson	DATE 10/19/2007	SCALE NOTED	D	6080-104 SH. NO. 2 OF 12	REV.

SCALE 1/2

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

Table		
TYPE	NO# REQ	DIM
3GEMG	?	27.000 mm
Micromegs	?	41.800 mm
Pixel GEM	?	40.500 mm
3GEM No Gate	?	37.000 mm



SECTION GG-GG  
SCALE 1:1

SCALE 1:1

**\* These dimensions are from the Bounding Box  
This sheet is for Dan Peterson's use only!**

FOR MACHINING LUBRICANT USE ONLY  
ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				

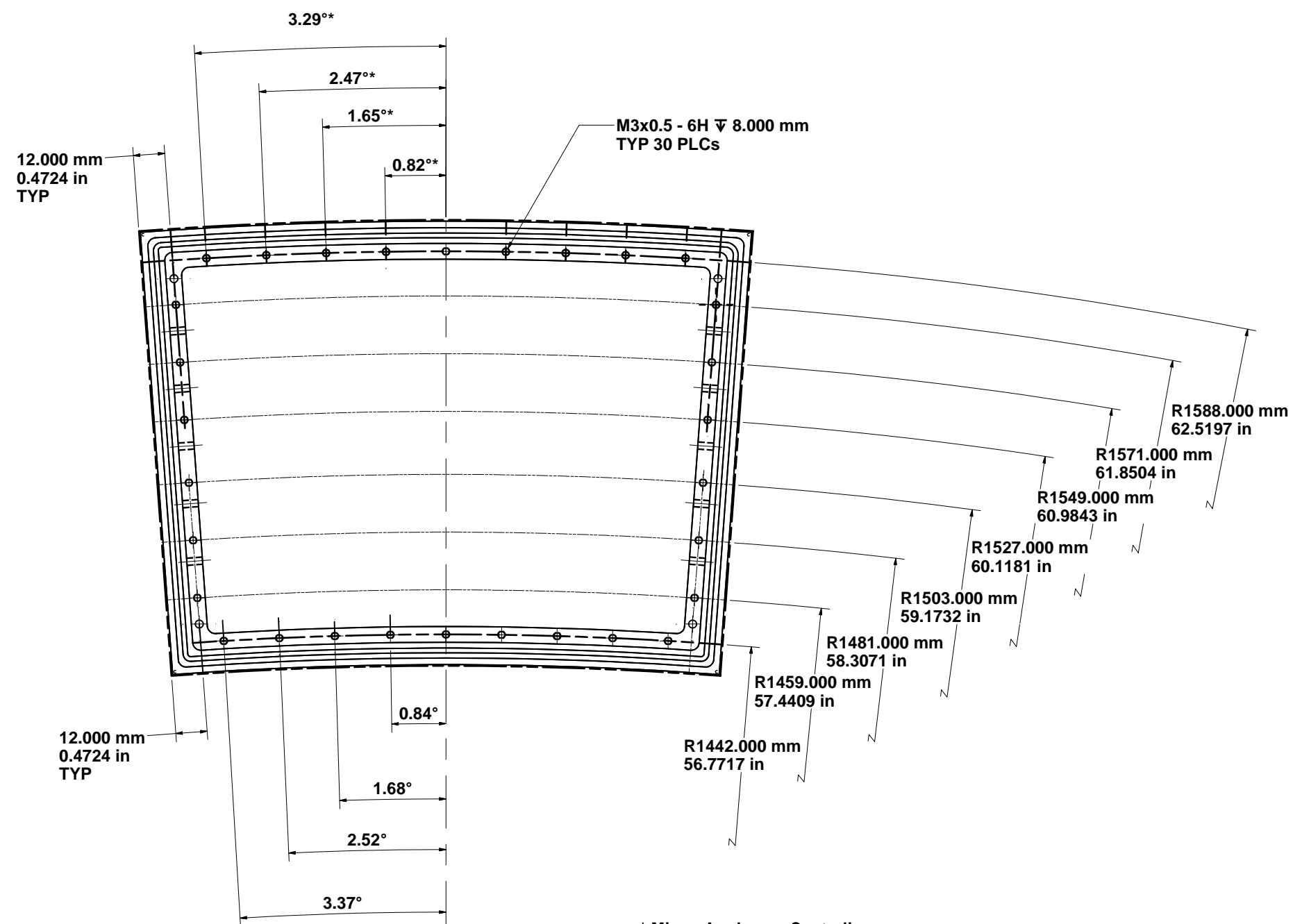
  

PRINT DISTR.	PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw	CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
CR-1 SH. NO. 3 OF 12	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓	<b>LCTPC Large Prototype Backframe</b>
REV.	CHECKED BY: Peterson APPROVED BY: Peterson	DRAWN BY: MDS DRAWN FOR: Peterson DATE: 10/19/2007 SCALE: Noted

6080-104  
SH. NO. 3 OF 12



REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



\* Mirror Angles on Centerline

SCALE 1:1

**Threaded holes have tolerance +/- 0.010 inch.**  
**This sheet shows the threaded holes located in the x-y plane.**  
**These holes may be made in process step 5 without pre-drilling in previous steps.**

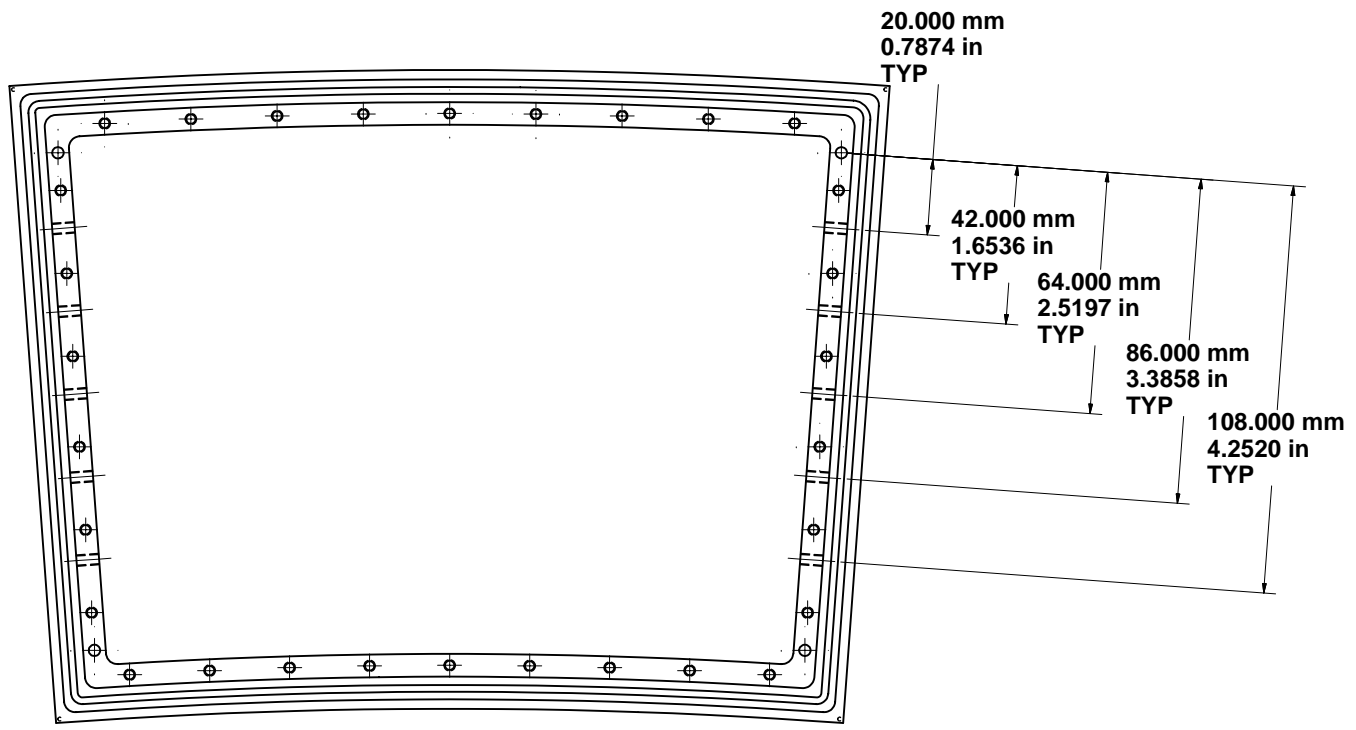
FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

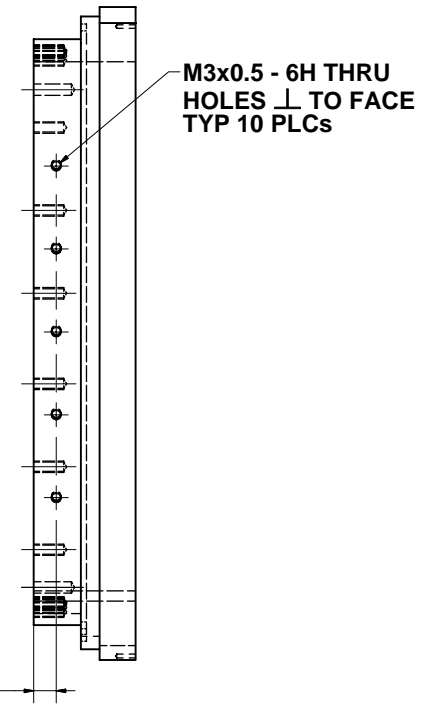
	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
	PRINT DISTR. PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw			QUANTITY				
	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES		CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
	CHECKED BY: Peterson APPROVED BY: Peterson		DRAWN BY MDS	DRAWN FOR Peterson	DATE 10/19/2007	SCALE Noted	D	6080-104 SH. NO. 5 OF 12

LCTPC Large Prototype Backframe

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
A		Added 10 3mm Threaded Holes Added Sht 6	11/9/07	TOC



SCALE 1:1



SCALE 1:1

Threaded holes have tolerance +/- 0.010 inch.

This sheet shows the threaded holes located in the sides.  
 These holes may be made in process step 5 without pre-drilling in previous steps.

FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

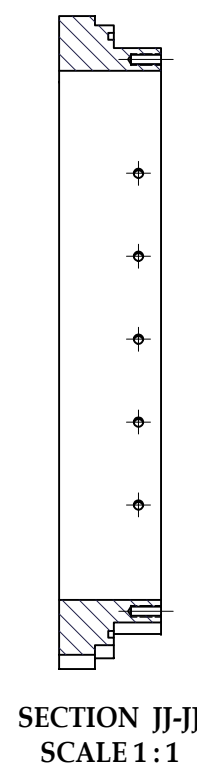
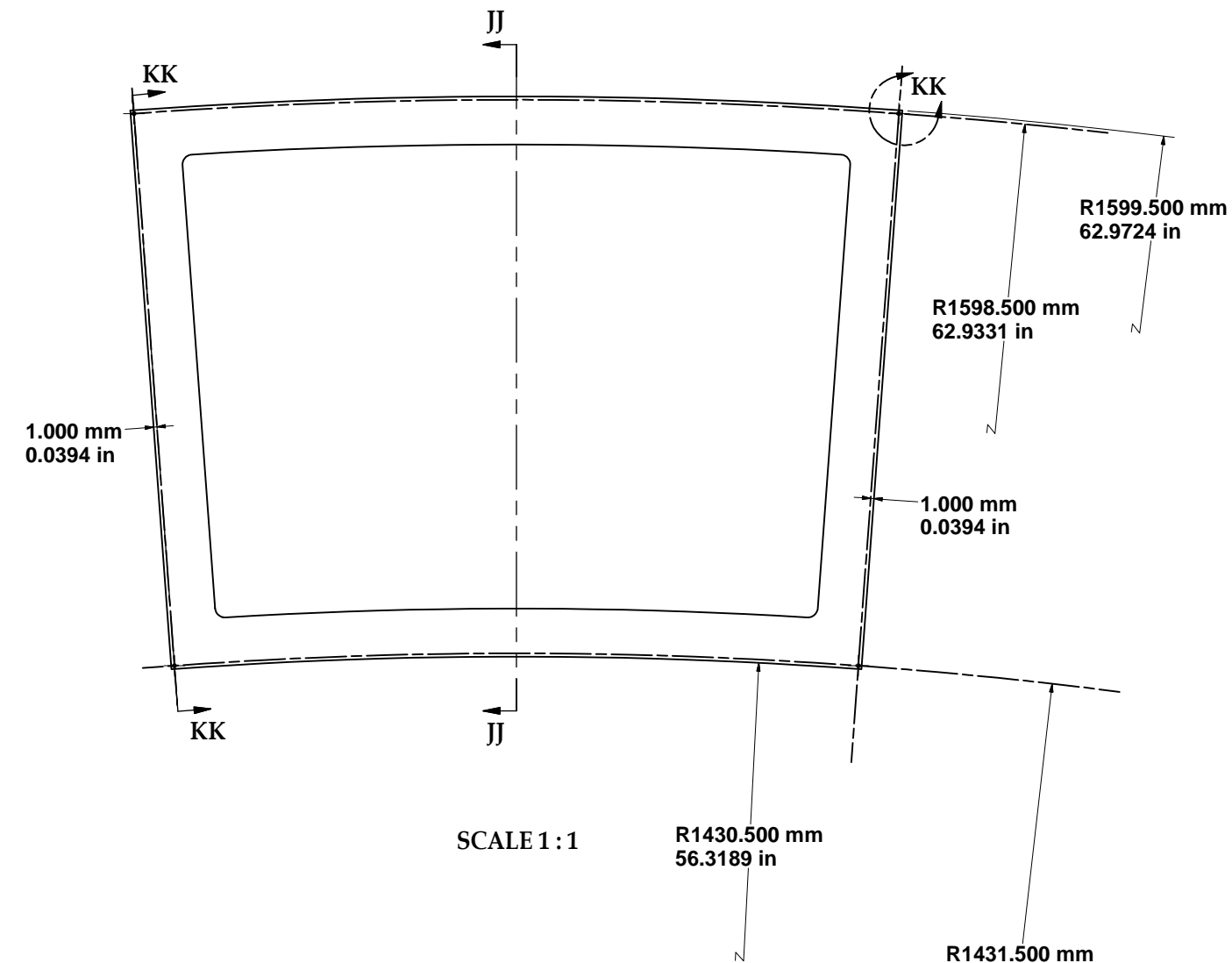
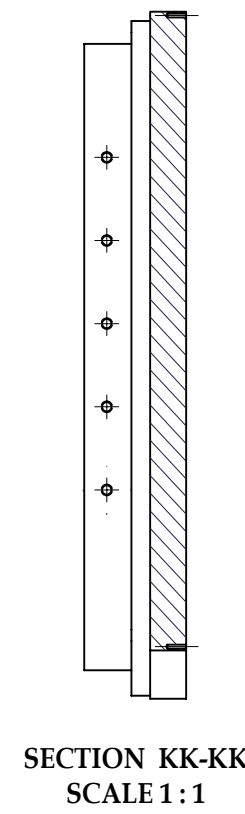
TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.		PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ±.010 .000 ±.005 FRACTIONS ±1/64 ANGLES ±0.5° ALL SURFACES ✓					
				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
		LCTPC Large Prototype Backframe					
CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: Noted	D	6080-104	REV. A
APPROVED BY: Peterson						SH. NO. 6 OF 12	

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
C		Added 4 Dowel holes +New Sht7	11/28/07	TIO
E		Defind tol.for dowel holes	1/4/2008	DPP

DETAIL KK  
SCALE 10 : 1

Dowel Hole  
 $\varnothing 1.000 \text{ mm} \nabla 5.000 \text{ mm}$   
 Lead hole  $\nabla 6 \text{ mm}$   
 Reamed  $\nabla$  (Specified depth)  
 Location Tolerance: 0.025mm/0.001 inch True Position  
 4 PLCs TYP



Dowel holes have location tolerance 0.001 inch true position.

Certification measurements for these dowels are shown on sheet 12.

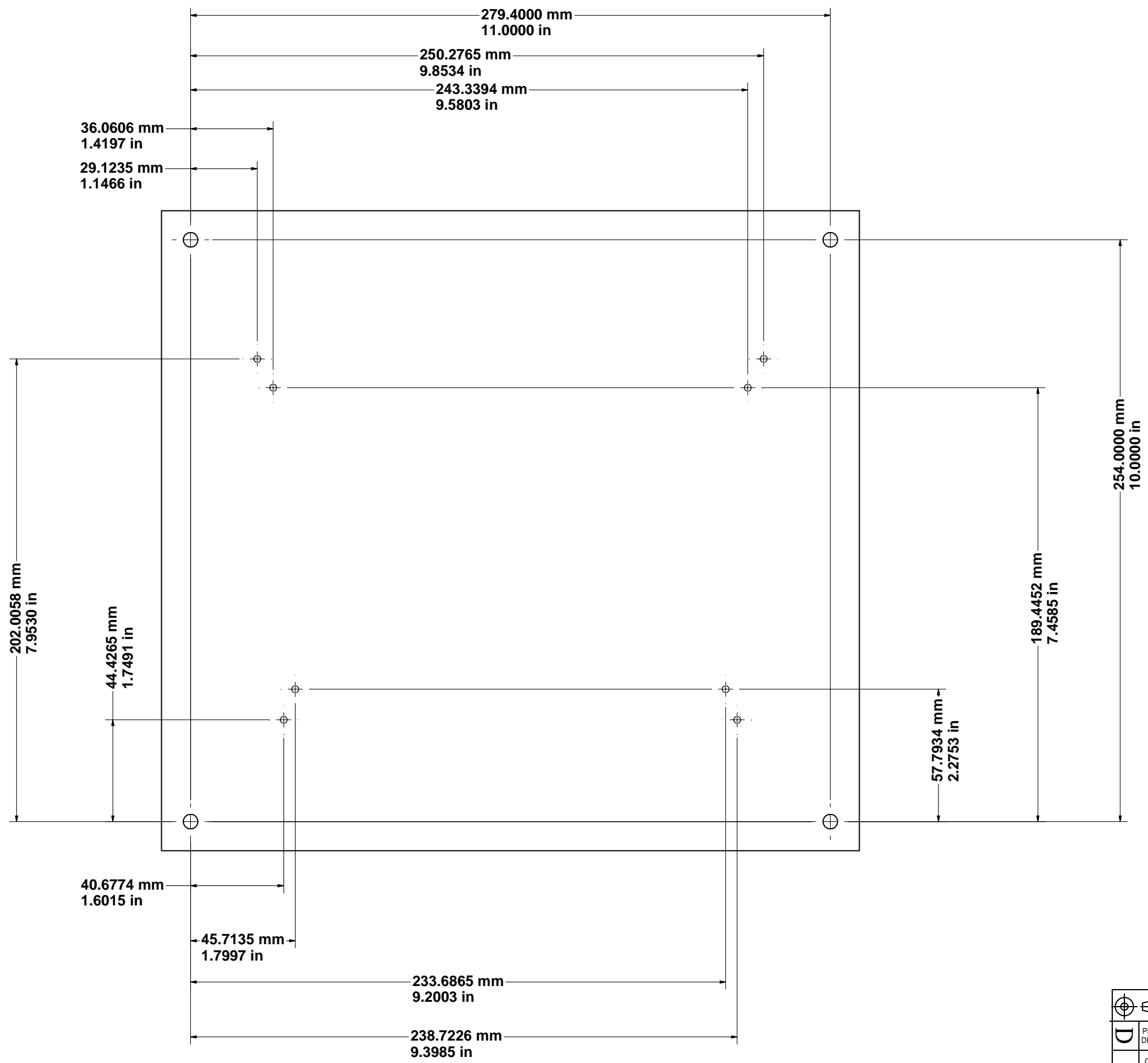
This sheet shows the dowel holes for locating the pad boards.  
 These holes may be made in process step 5 without pre-drilling in previous steps.

FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.		PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES $\surd$					
CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853							
LCTPC Large Prototype Backframe							
CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: Noted	D	6080-104 SH. NO. 7 OF 12	REV. E

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



**TABLE OF HOLE MEASUREMENTS**  
(Values are in inches)  
CAUTION: Values listed in the table are entered manually; They are not driven by the model.

NUMBER	MEASURE X	MEASURE Y
1	0.0000	0.0000
2	11.0000	0.0000
3	0.0000	10.0000
4	11.0000	10.0000
5	1.6015	1.7491
6	9.3985	1.7491
7	1.1466	7.9530
8	9.8534	7.9530
9	1.7997	2.2753
10	9.2003	2.2753
11	1.4197	7.4585
12	9.5803	7.4585

**TABLE OF SURFACE MEASUREMENTS**  
(Values are in inches)  
CAUTION: Values listed in the table are entered manually; They are not driven by the model.

NUMBER	SET X	SET Y
1	0.4000	0.4000
2	10.6000	0.4000
3	0.4000	9.6000
4	10.6000	9.6000
5	1.9997	2.4753
6	9.0003	2.4753
7	1.6197	7.2585
8	9.3803	7.2585

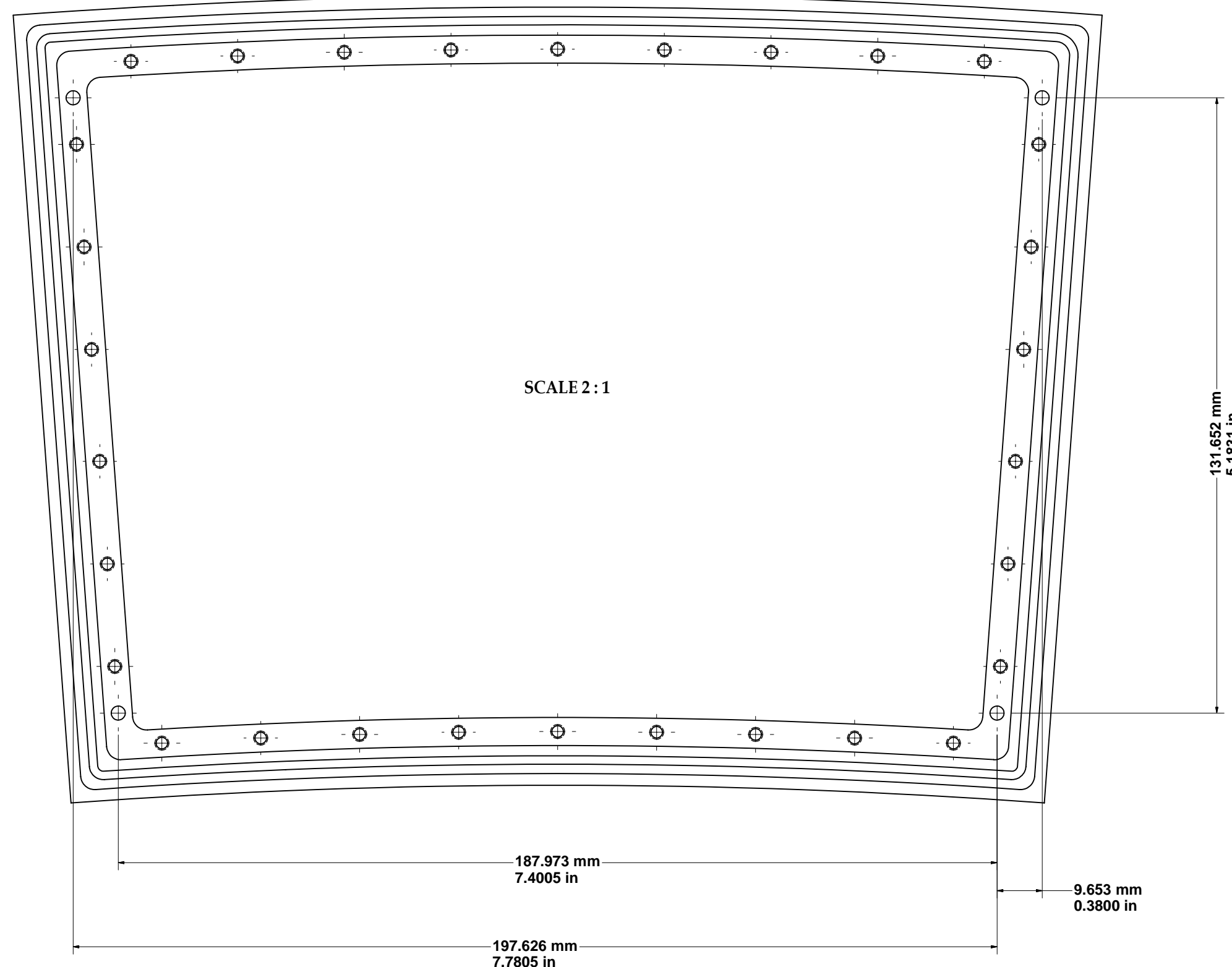
**Part # 6080-123 Assembly Jig**  
certification measurements

SCALE 1:1

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
			QUANTITY					
PRINT DISTR.	6080-104	PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw						
CR-1	6080-104	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES <input checked="" type="checkbox"/>				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		
3GEMG Backframe & Assembly Jig		CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: D	6080-104 SH. NO. 8 OF 12	



REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
B		Added Sheet 7 certification measurements	11/15/07	TIO
D		Sht. 7 is now sht 8	11/28/07	TIO



**TABLE OF HOLE MEASUREMENTS**  
 (Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	MEASURE X	MEASURE Y
1	0.0000	0.0000
2	-7.4005	0.0000
3	0.3800	5.1831
4	-7.7805	5.1831

**TABLE OF SURFACE MEASUREMENTS**  
 (Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET X	SET Y
1	0.0200	0.2000
2	-7.4205	0.2000
3	0.3600	4.9831
4	-7.7605	4.9831

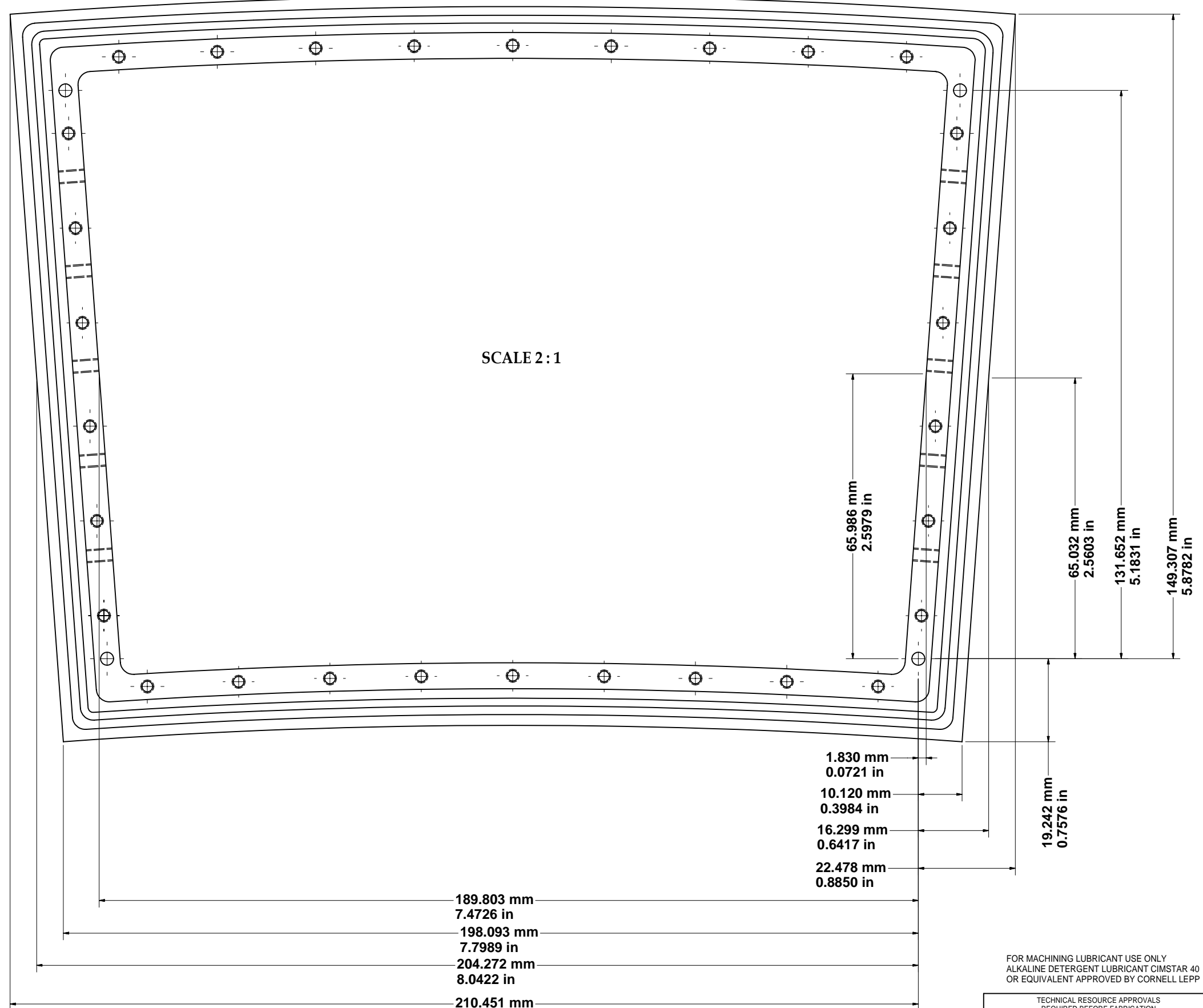
**This sheet shows certification measurements for the dowel holes and heights.**

FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.		PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓					
				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
		LCTPC Large Prototype Backframe					
CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: Noted	D	6080-104	REV. D
APPROVED BY: Peterson						SH. NO. 9 OF 12	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



**TABLE OF SURFACE MEASUREMENTS**  
 (Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET Y	MEASURE X	
1	2.5979	0.0721	
2	0.0000	0.4540	
3	2.5603	0.6417	
4	5.1831	0.8340	
5	2.5979	-7.4726	
6	0.0000	-7.8545	
7	2.5603	-8.0422	
8	5.1831	-8.2345	

SCALE 2:1

- 65.986 mm  
2.5979 in
- 65.032 mm  
2.5603 in
- 131.652 mm  
5.1831 in
- 149.307 mm  
5.8782 in
- 19.242 mm  
0.7576 in
- 1.830 mm  
0.0721 in
- 10.120 mm  
0.3984 in
- 16.299 mm  
0.6417 in
- 22.478 mm  
0.8850 in

- 189.803 mm  
7.4726 in
- 198.093 mm  
7.7989 in
- 204.272 mm  
8.0422 in
- 210.451 mm  
8.2855 in

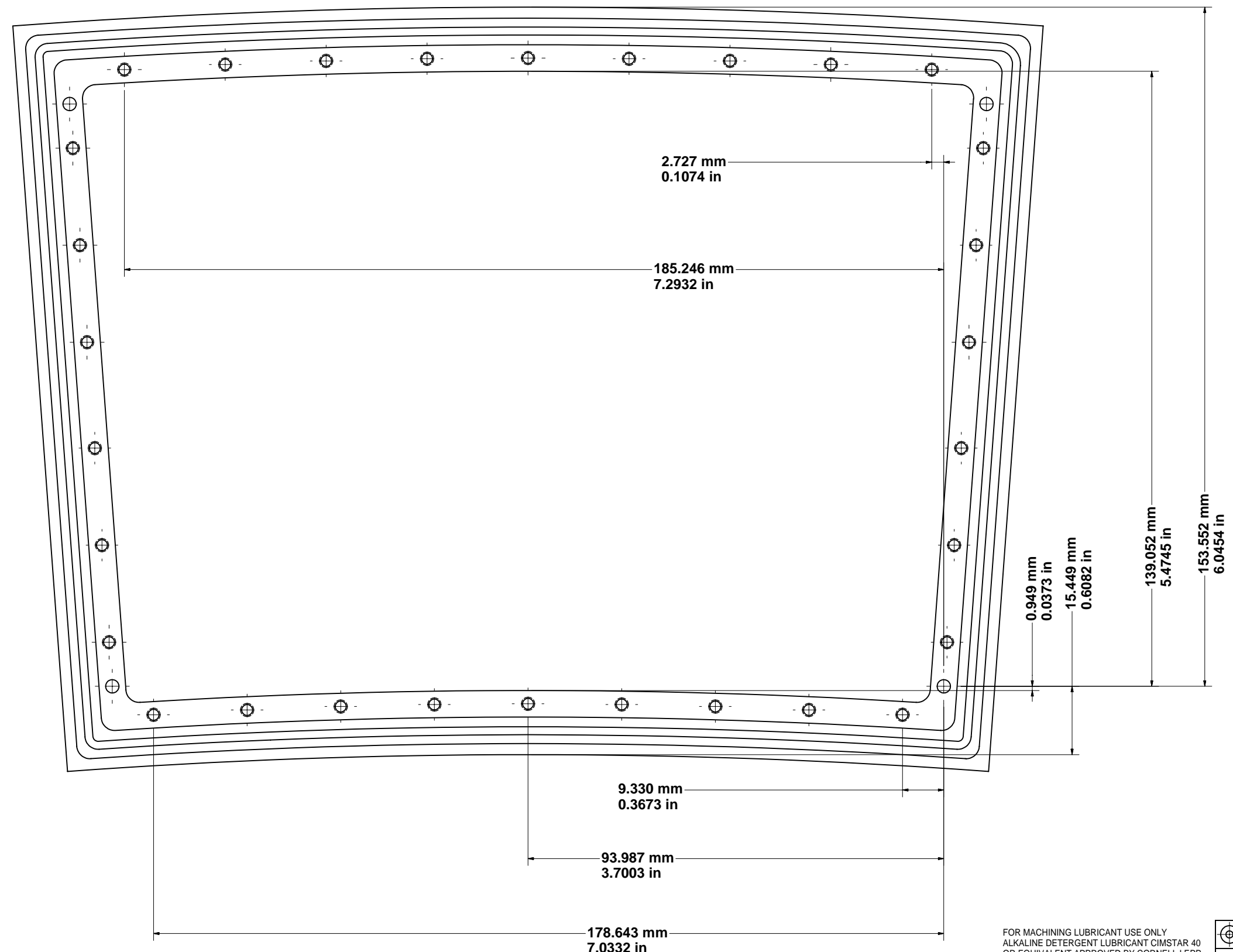
FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	6080-104	PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES ✓					
				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
		LCTPC Large Prototype Backframe					
CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: Noted	D	6080-104	REV.
APPROVED BY: Peterson						SH. NO. 10 OF 12	

**This sheet shows certification measurements for surfaces, in the "x" dimension.**

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.



**TABLE OF SURFACE MEASUREMENTS**  
 (Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET X	MEASURE Y	
1	-3.7003	-0.0373	
2	-3.7003	-0.6082	
3	-3.7003	5.4745	
4	-3.7003	6.0454	
5	-0.3673	-0.7069	
6	-7.0332	-0.7069	
7	-0.1074	5.9427	
8	-7.2932	5.9427	

SCALE 2:1

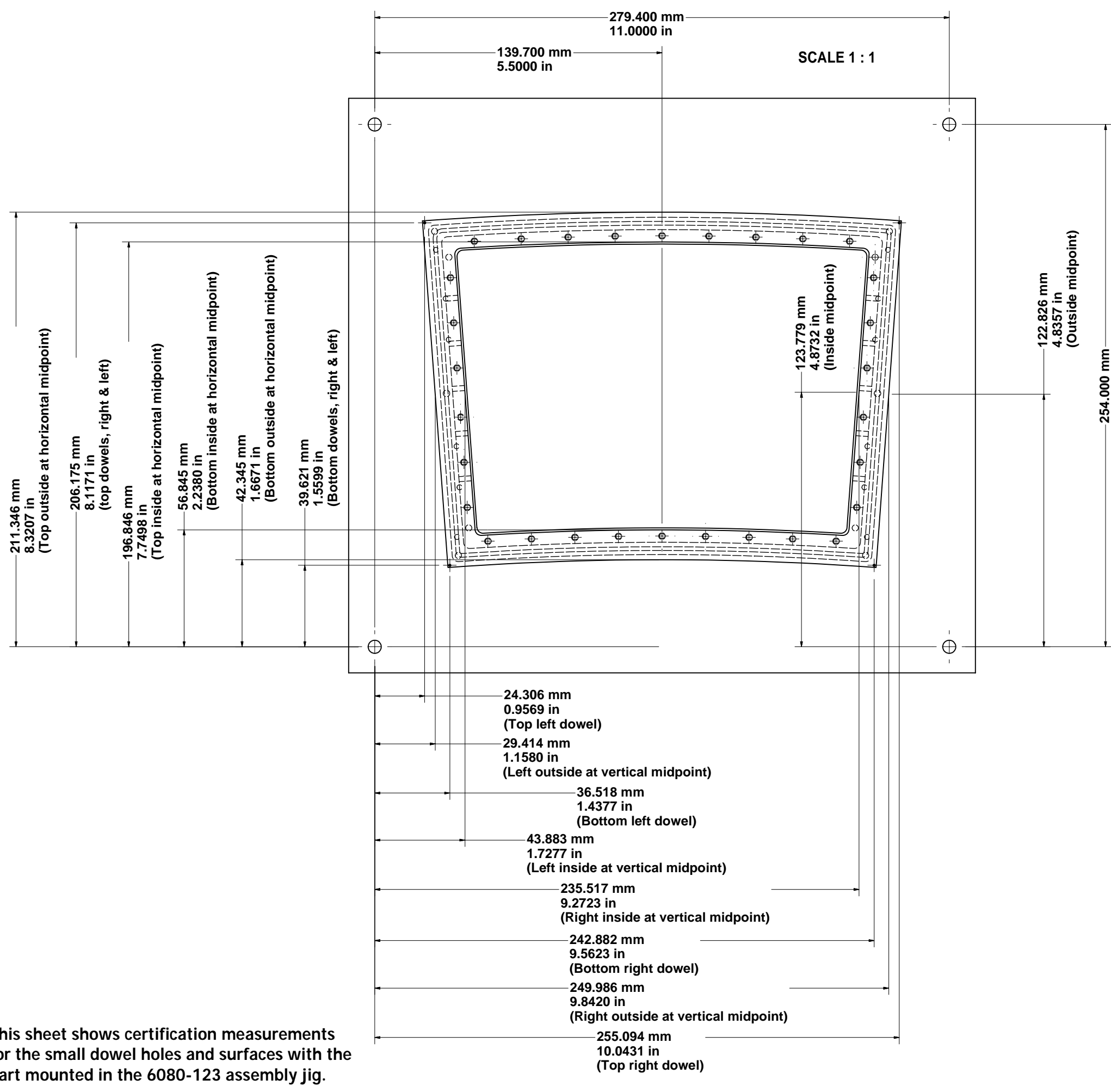
FOR MACHINING LUBRICANT USE ONLY  
 ALKALINE DETERGENT LUBRICANT CIMSTAR 40  
 OR EQUIVALENT APPROVED BY CORNELL LEPP

TECHNICAL RESOURCE APPROVALS REQUIRED BEFORE FABRICATION			
	OK	DATE	N/A
DRAFTING (O'Connell):			
MACHINE SHOP (Kaminski):			
CHEMISTRY (Conklin):			
ELECTRONICS SHOP (Barley):			
FURNACE BRAZING (Sherwood):			
BEAM WELDING (Sears):			
WELDING OTHER (Gallagher):			
UTILITIES INTEGRATION (Gallagher):			
STOCKROOMS (Lockwood):			

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
PRINT DISTR.		PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ±.010 .000 ±.005 FRACTIONS ±1/64 ANGLES ±0.5° ALL SURFACES ✓					
				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
		LCTPC Large Prototype Backframe					
CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: D	6080-104	REV.	
APPROVED BY: Peterson					SH. NO. 11 OF 12		

This sheet shows certification measurements for surfaces, in the "y" dimension.

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.
E		Added sheet 9 with 6080-123 Jig view	11/28/07	TIO



**TABLE OF HOLE MEASUREMENTS**

(Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	MEASURE X	MEASURE Y
1	0.0000	0.0000
2	11.0000	0.0000
3	0.0000	10.0000
4	11.0000	10.0000
5	1.4377	1.5599
6	9.5623	1.5599
7	0.9569	8.1171
8	10.0431	8.1171

**TABLE OF SURFACE MEASUREMENTS, "y" dimension**

(Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET X	MEASURE Y
1	5.5000	1.6671
2	5.5000	2.2380
3	5.5000	7.7498
4	5.5000	8.3207

**TABLE OF SURFACE MEASUREMENTS, "x" dimension**

(Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET Y	MEASURE X
1	4.8357	1.1580
2	4.8732	1.7277
3	4.8732	9.2723
4	4.8357	9.8420

**TABLE OF SURFACE MEASUREMENTS**

(Values are in inches)  
**CAUTION: Values listed in the table are entered manually; They are not driven by the model.**

NUMBER	SET X	SET Y
1	0.4000	0.4000
2	10.6000	0.4000
3	0.4000	9.6000
4	10.6000	9.6000
5	1.6377	1.7599
6	9.3623	1.7599
7	1.1569	7.9171
8	9.8431	7.9171

This sheet shows certification measurements for the small dowel holes and surfaces with the part mounted in the 6080-123 assembly jig.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	6080-104	PLOT DATE: 3/12/2008 CAD FILE NAME: 6080-104 3GEMG backframe.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .00 ± .010 .000 ± .005 FRACTIONS ± 1/64 ANGLES ± 0.5° ALL SURFACES				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	
REV.	6080-104	3GEMG Backframe & Assembly Jig					
	CHECKED BY: Peterson	DRAWN BY: MDS	DRAWN FOR: Peterson	DATE: 10/19/2007	SCALE: Noted	D	6080-104 SH. NO. 12 OF 12