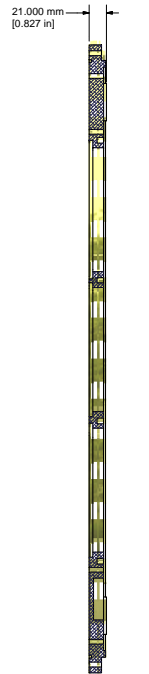
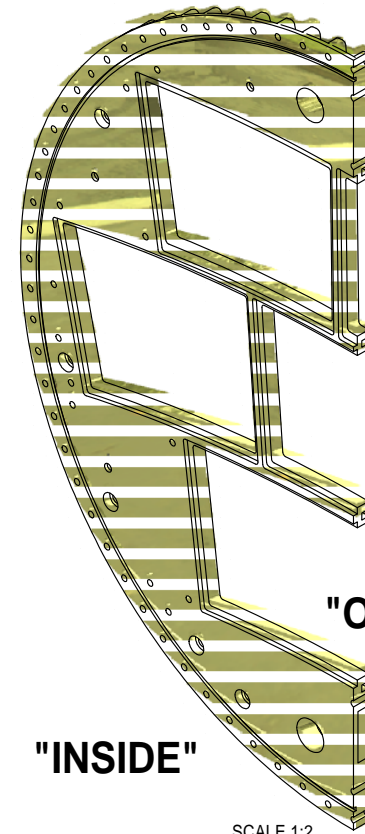


SCALE 1:3
"INSIDE"



SECTION A-A
SCALE 1:3



"OUTSIDE"

SCALE 1:2

Matl: Alum. 6061 T651

Part requires 5-step process.

- 1) Machine all surfaces and openings (as noted) leaving 0.040inch 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 openings (as noted) leaving 0.015 inch extra material.
(At least 0.010 inch 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 drill holes to final specifications.

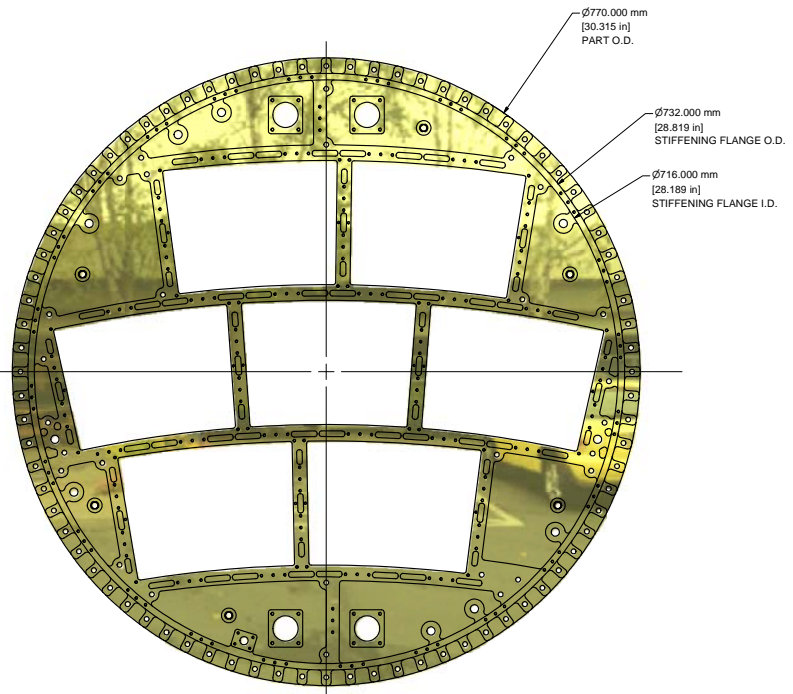
Technical questions, including clarifications and proposals for exceptions,
are to be directed to

Dan Peterson
Senior Physicist, Laboratory for Elementary-Particle Physics, Cornell University
607-255-8784
daniel.peterson@cornell.edu

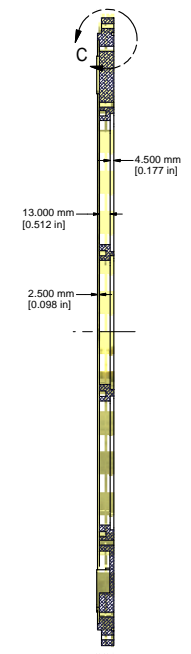
NOTE: THE ASSEMBLY THAT USES THIS LP1 ENDPLATE IS LOCATED IN 6080-163.
ADDITIONAL PARTS USED IN 6080-163 ARE DETAILED IN 6080-172 & 173.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw						
CR-1	6080-171	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .5 ± .01 .00 ± .001 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES ✓			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		
		LP1 Endplate 3_Endplate Only					
CHECKED BY:	DRAWN BY:	DRAWN FOR:	DATE:	SCALE:	6080-171		REV.
APPROVED BY:	TMK	DPP	2/23/2011	D	SH. NO. 1 OF 22		

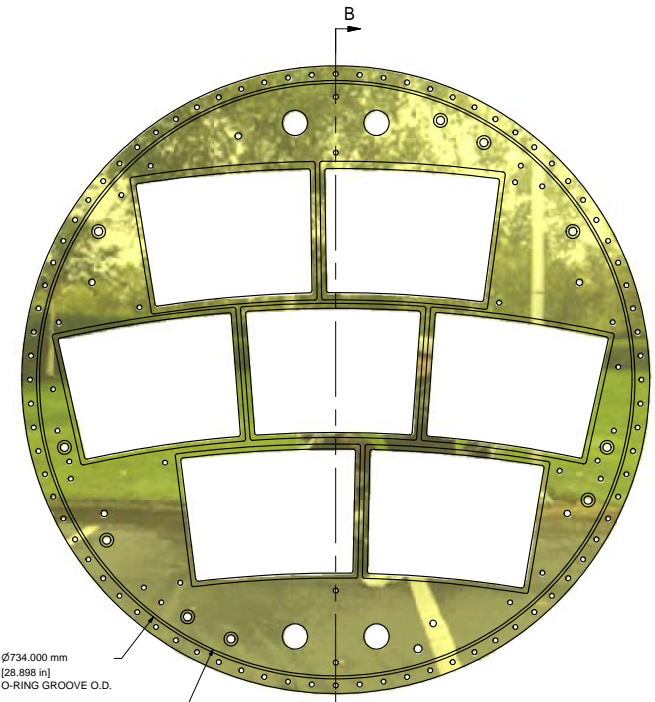
REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



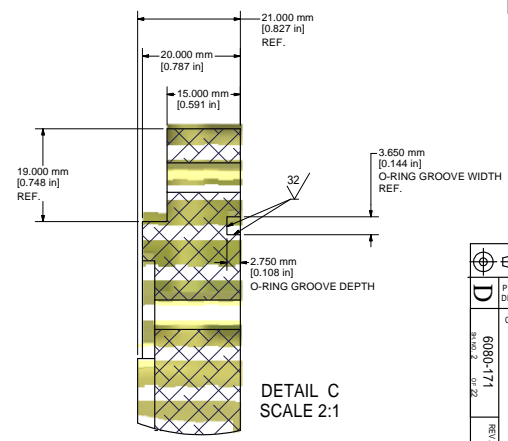
SCALE 1:3
"OUTSIDE"



SECTION B-B
SCALE 1:3
"PROFILE"



SCALE 1:3
"INSIDE"



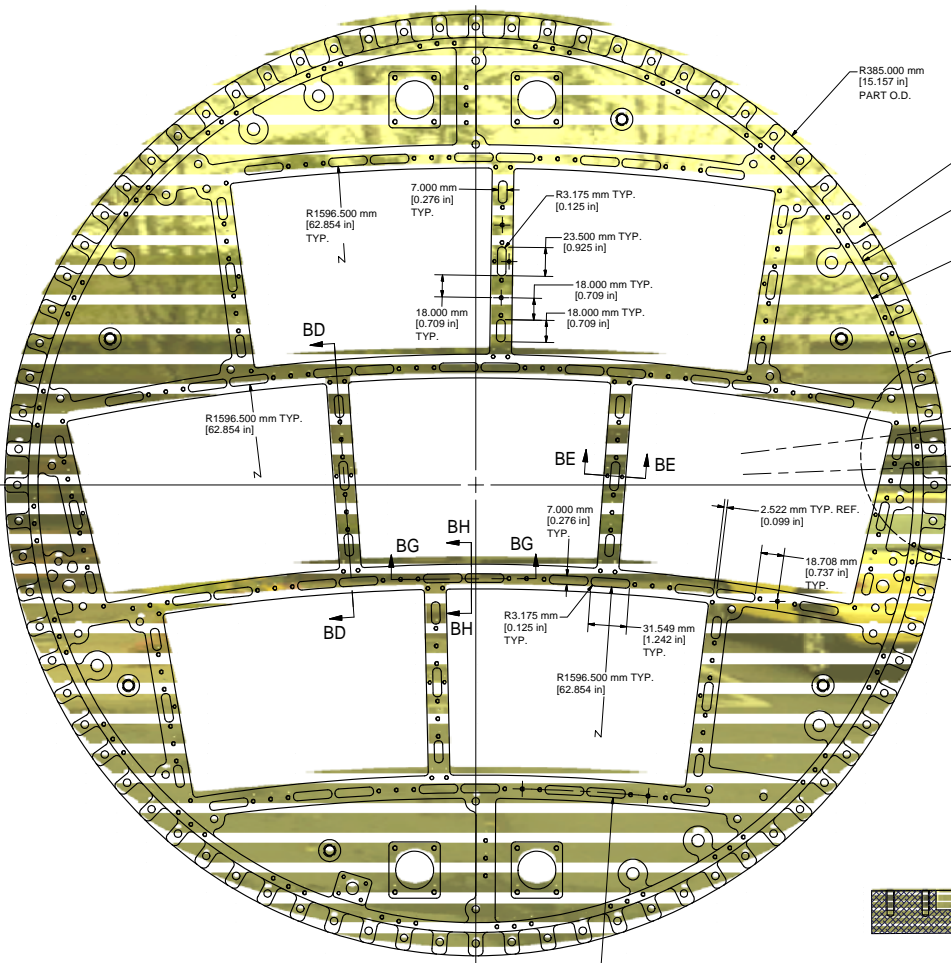
DETAIL C
SCALE 2:1

This sheet shows profile dimensions.
Definition of O-Ring groove is shown.

O-Ring groove may be delayed to process step 5;
it would require a tool with less than 0.125 inch diameter at step 3.

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

PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw	CORNELL UNIVERSITY LABORATORY FOR SUBMICROSTRUCTURE PHYSICS LEPP CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
CR-1 6080-171 REV. 2 OF 22	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: .0005 ± .0005 .001 ± .001 .002 ± .002 .005 ± .005 .010 ± .010 .020 ± .020 .050 ± .050 .100 ± .100 .200 ± .200 .500 ± .500 1.000 ± 1.000 2.000 ± 2.000 5.000 ± 5.000 10.000 ± 10.000 25.000 ± 25.000 50.000 ± 50.000 100.000 ± 100.000 250.000 ± 250.000 500.000 ± 500.000 1000.000 ± 1000.000 ALL SURFACES ✓	LP1 Endplate 3_Endplate Only
CHECKED BY: APPROVED BY:	DRAWN BY: TMK	DRAWN FOR: DPP
DATE: 2/23/2011	SCALE: D	6080-171 SH. NO. 2 OF 22



SCALE 1:2
"OUTSIDE"

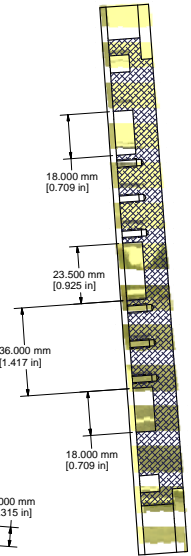
"SCALLOPS" REPEAT 80 TIMES LOCATED AND SPACED AS SHOWN AROUND THE 360° CIRCUMFERENCE.

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		

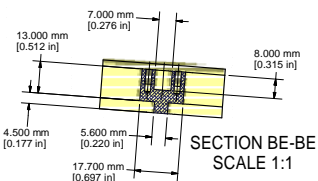


VIEW AG-AG
SCALE 1:1

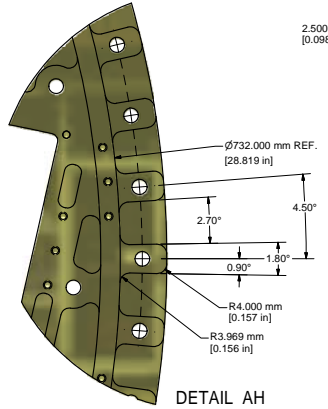
Ø732.000 mm [28.819 in] STIFFENING FLANGE O.D.
Ø716.000 mm [28.189 in] STIFFENING FLANGE I.D.



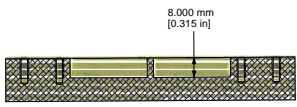
SECTION BD-BD
SCALE 1:1



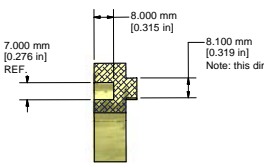
SECTION BE-BE
SCALE 1:1



DETAIL AH
SCALE 1:1



SECTION BG-BG
SCALE 1:1



SECTION BH-BH
SCALE 1:1

SECTION AF-AF
SCALE 1:2

"PROFILE"

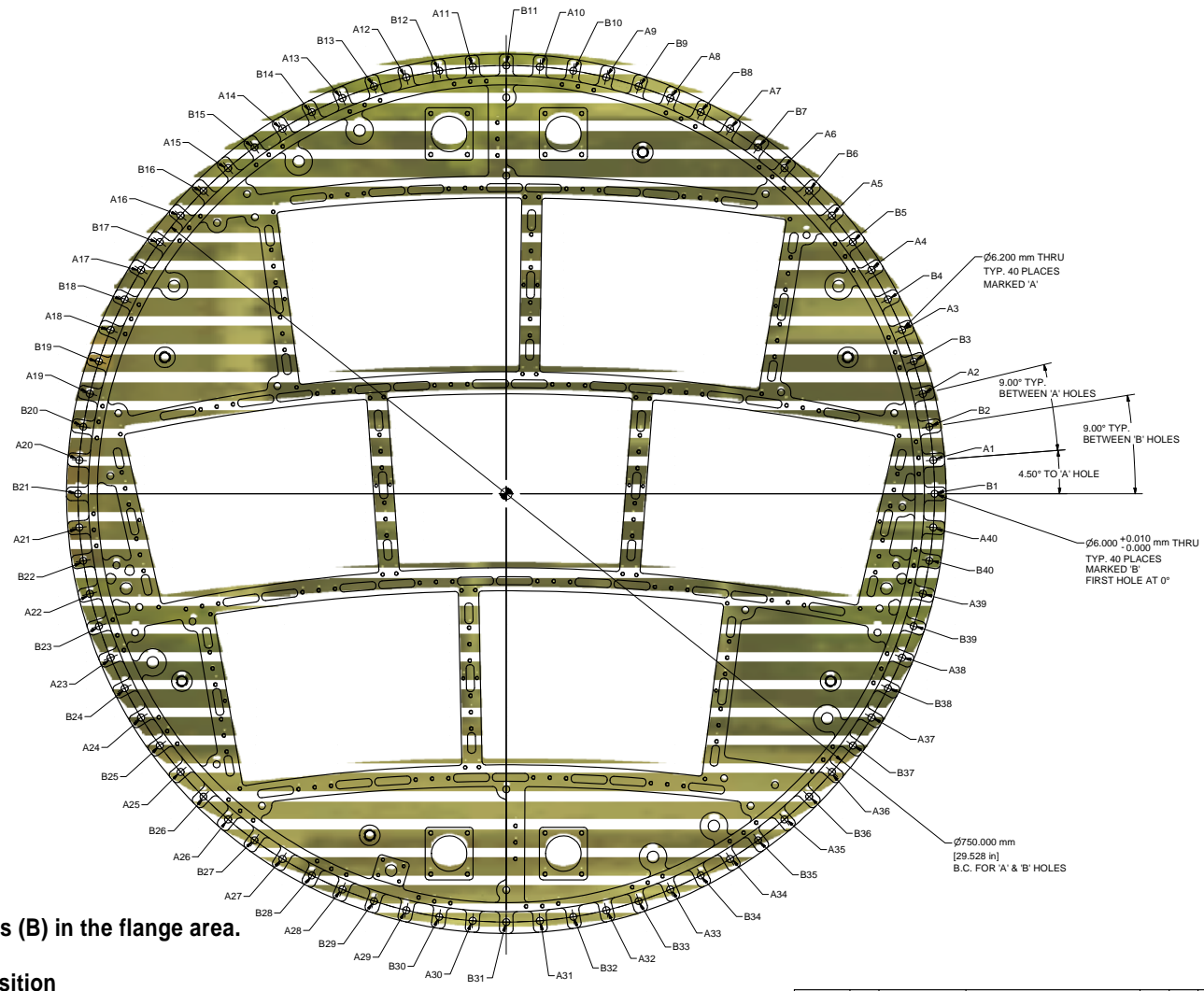
This sheet shows dimensions of the mullions.
This sheet shows scallops at the outer edge and pocketing of the mullions to reduce material.

Scallops and pocketing are to be initiated in process step 1.

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

PRINT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw	<p>CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853</p>
<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON: .000 ± .005 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15° ALL SURFACES</p>	
<p>DRIVEN BY: TMK DRAWN FOR: DPP DATE: 2/23/2011 SCALE: D</p>	<p>6080-171 SH. NO. 3 OF 22</p>

REVISIONS		
SYM.	ZONE	DESCRIPTION



This sheet shows clearance holes (A) and dowel holes (B) in the flange area.

Clearance holes 'A' have tolerance 0.010 inch true position within a frame defined by hole location B1, B11, B21, & B31 (See sheet 21).

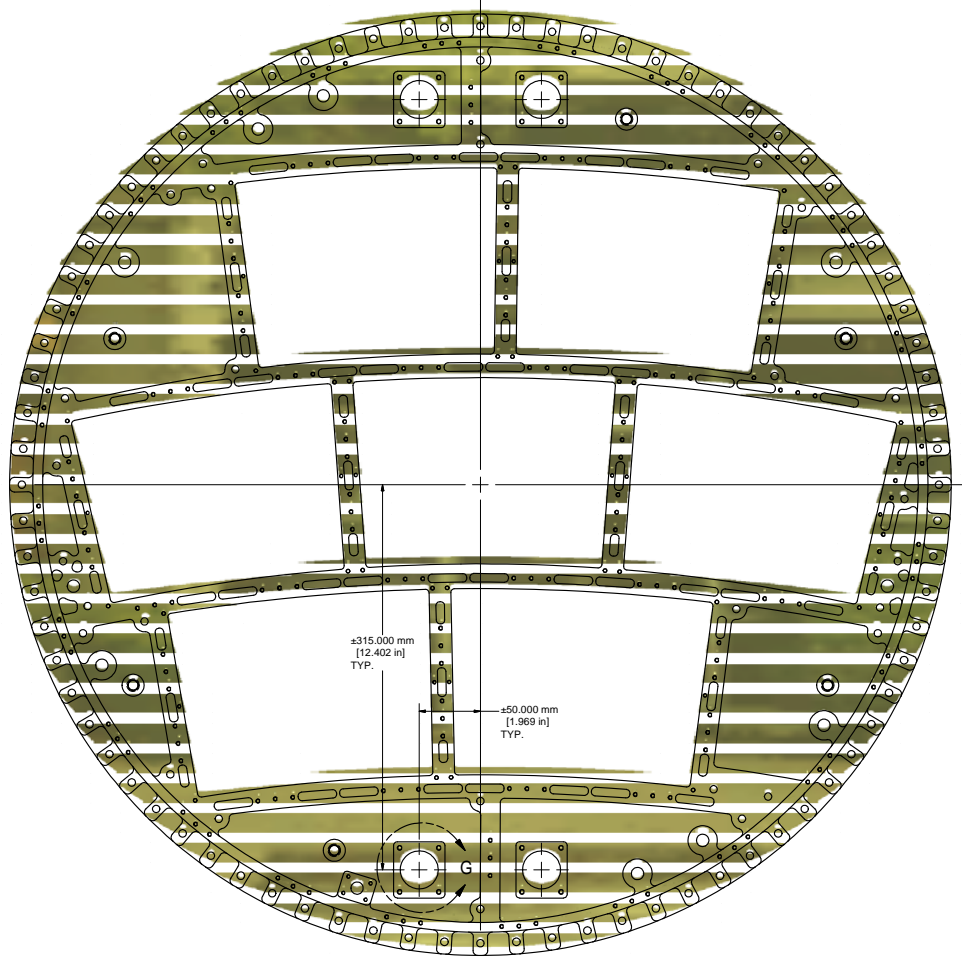
Dowel holes 'B' have tolerance 0.004 inch true position within a frame defined by holes B1, B11, B21, & B31 (see sheet 21).

Holes (A) and (B) are to be initiated in process step 1.

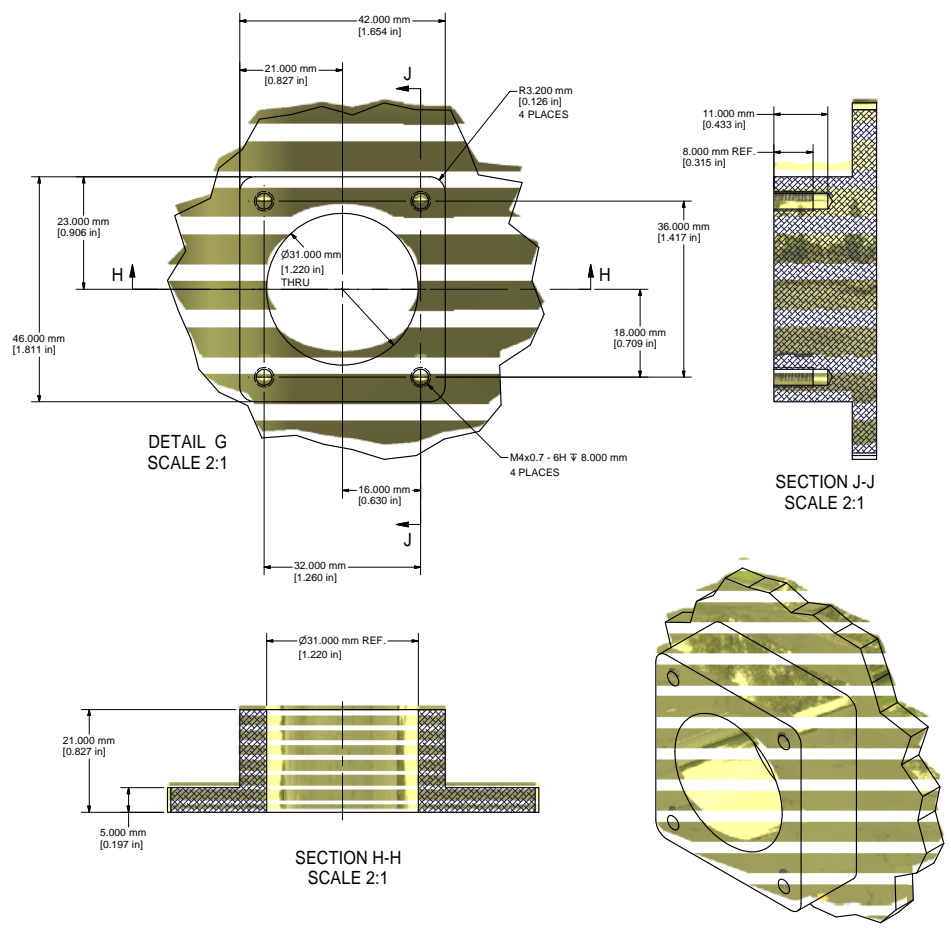
SCALE 1:2
"OUTSIDE"

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	QUANTITY			REMARKS	REV.
				G1	G2	G3		
6080-171	CR-1	6080-171	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .5 & .01 .00 & .050 .000 & .005 FRACTIONS & 1/32 ANGLES & 1/16 ALL SURFACES					
			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853					
LP1 Endplate 3_Endplate Only			DRAWN BY TMK	DRAWN FOR DPP	DATE 2/23/2011	SCALE D	6080-171 SH. NO. 4 OF 22	REV.

REVISIONS		
SYM.	ZONE	DESCRIPTION



SCALE 1:2
"OUTSIDE"



DETAIL G
SCALE 2:1

SECTION H-H
SCALE 2:1

SECTION J-J
SCALE 2:1

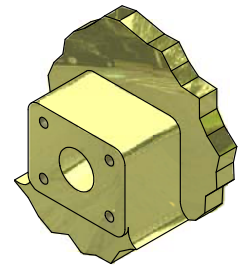
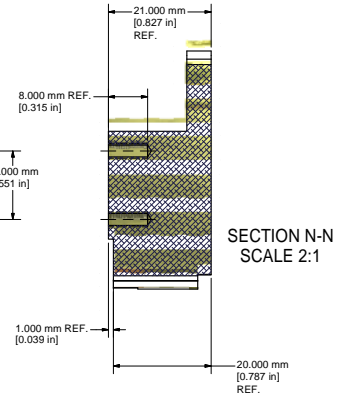
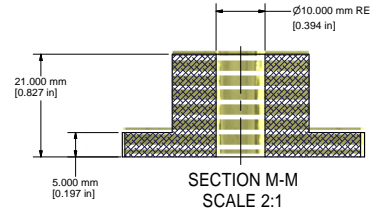
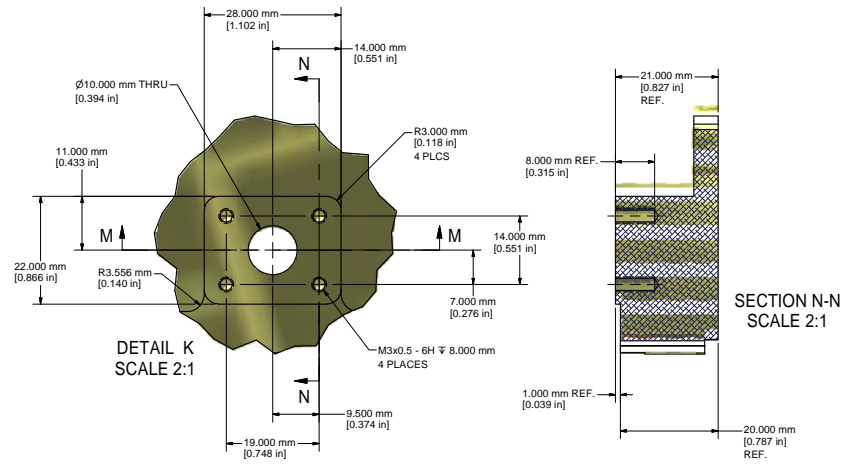
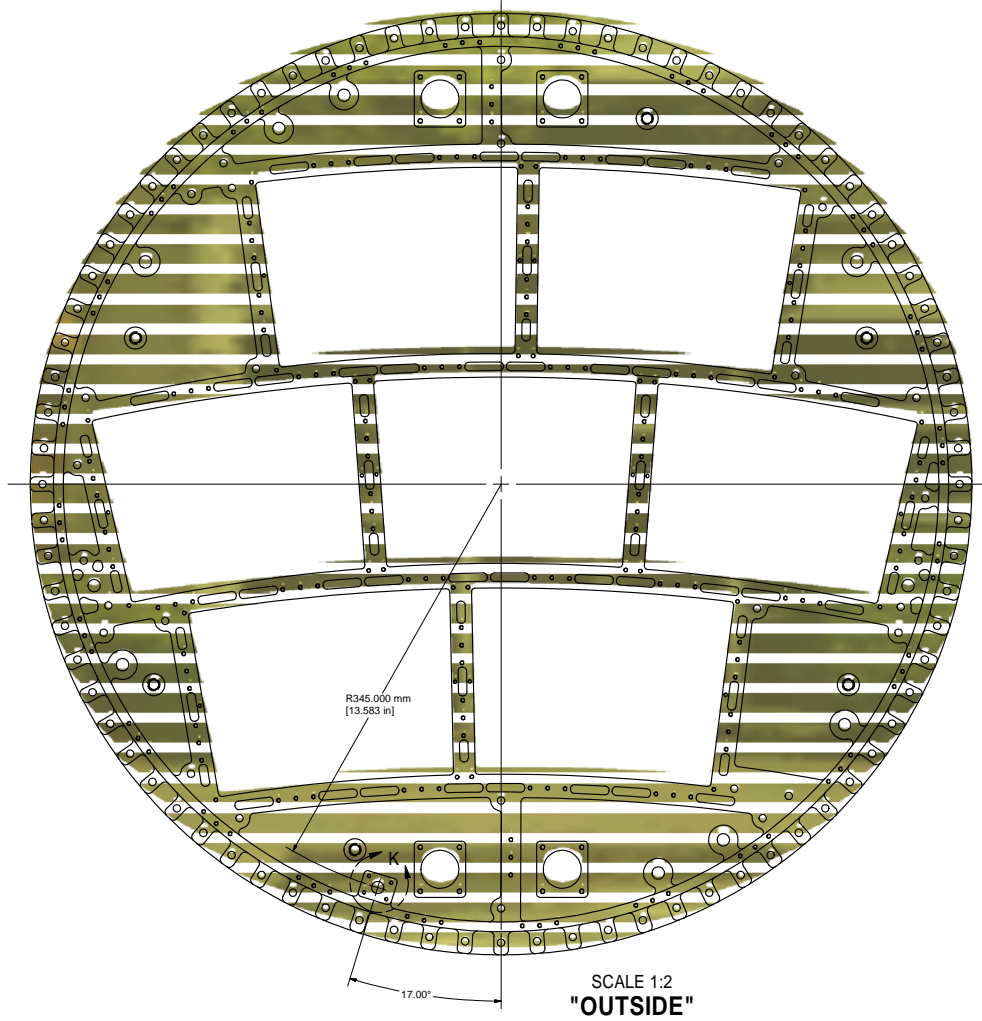
This sheet shows the light insert holes.
The center opening and threaded hole locations have tolerance +/- 0.005 inch.

The profile and center opening are to be initiated in process step 1.
Associated threaded holes may be delayed to process step 5.

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

PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
6080-171	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .5 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± .002 ANGLES ± 10' ALL SURFACES ✓		LP1 Endplate 3_Endplate Only
	CHECKED BY:	DRAWN BY	DRAWN FOR	DATE
	APPROVED BY:	TMK	DPP	2/23/2011
				SCALE
				D
				6080-171
				SH. NO. 5 OF 22

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		

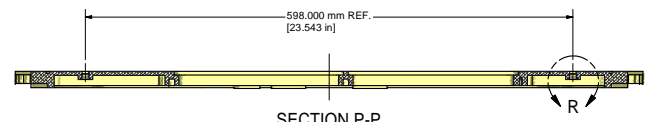


**This sheet shows the laser access hole.
The center opening and threaded hole locations have tolerance +/- 0.005 inch.**

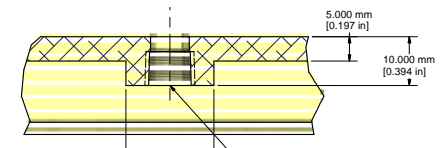
**The profile and center opening are to be initiated in process step 1.
Associated threaded holes may be delayed to process step 5.**

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.	
			QUANTITY					
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw							
CR-1	6080-171	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .5 ± .02 .001 ± .001 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES					CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	
REV.			LP1 Endplate 3_Endplate Only					
	CHECKED BY:	DRAWN BY:	DRAWN FOR:	DATE:	SCALE:			
	APPROVED BY:	TMK	DPP	2/23/2011	D	6080-171 SH. NO. 6 OF 22		

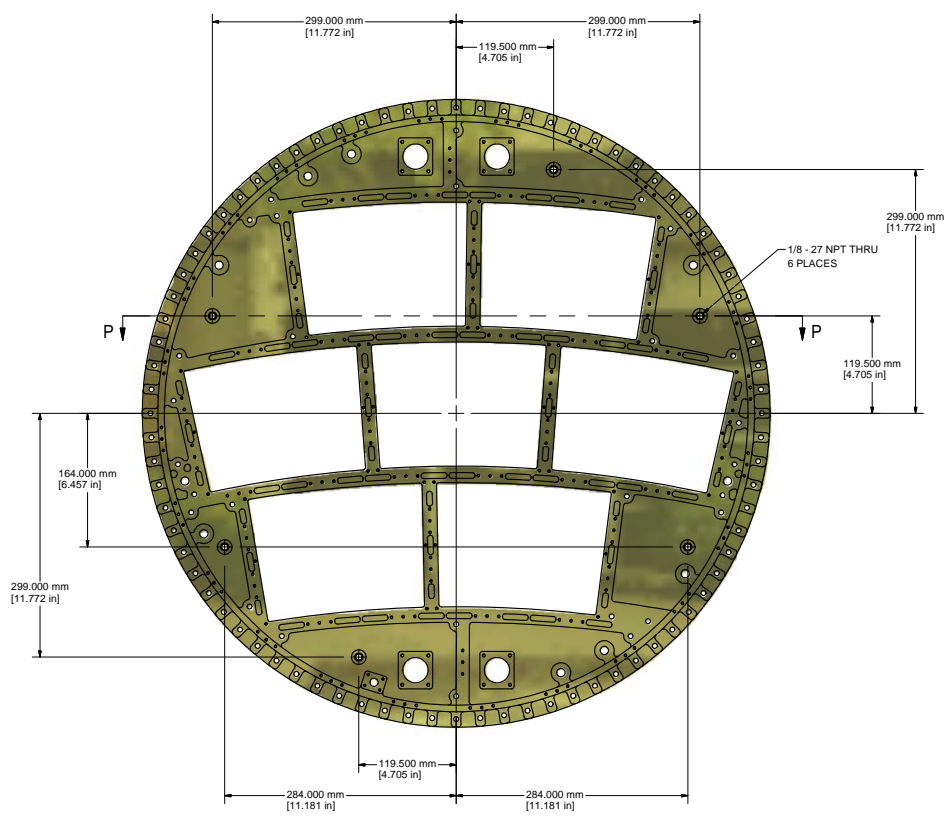
REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



SECTION P-P
SCALE 1:3



DETAIL R
SCALE 2:1



SCALE 1:3
"OUTSIDE"

This sheet shows the gas holes.
These features have tolerance +/- 0.010 inch.

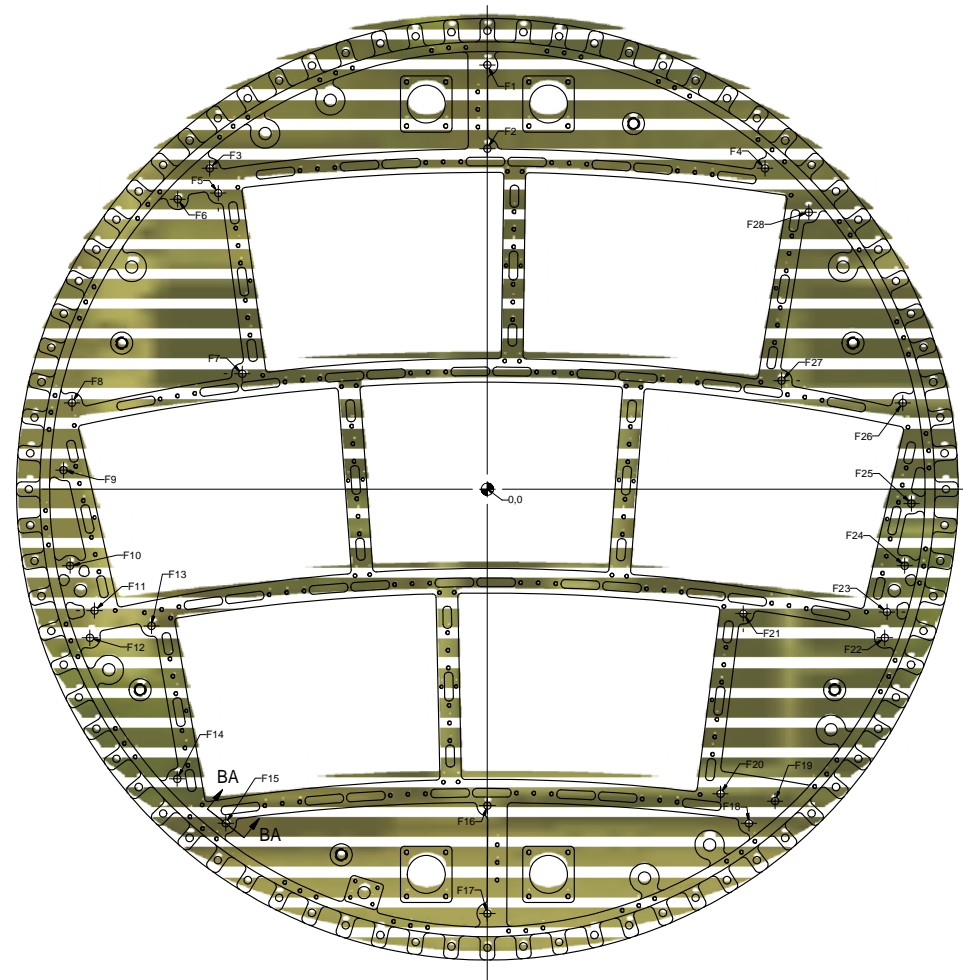
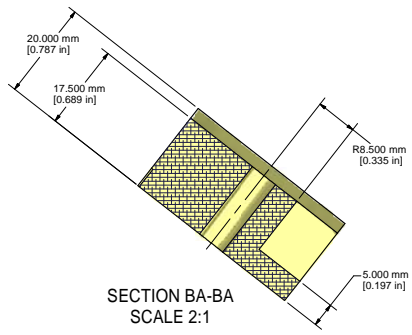
The profile and hole are to be initiated in process step 1.
The thread completed in process step 5.

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

PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
6080-171 REV. 7 (01/22)	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .5 ± .02 .002 ± .010 .000 ± .005 FRACTIONS ± .002 ANGLES ± 10' ALL SURFACES <input checked="" type="checkbox"/>	LP1 Endplate 3_Endplate Only		
	CHECKED BY:	DRAWN BY	DRAWN FOR	DATE
	APPROVED BY:	TMK	DPP	2/23/2011
				SCALE
				D
				6080-171
				SH. NO. 7 OF 22

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

Hole Table in mm			
HOLE	XDIM (Alt)	YDIM (Alt)	DESCRIPTION
F1	0.000	347.000	Ø6.000 mm THRU
F2	0.000	278.500	Ø6.000 mm THRU
F3	-227.039	262.416	Ø6.000 mm THRU
F4	227.039	262.416	Ø6.000 mm THRU
F5	-220.089	242.189	Ø6.000 mm THRU
F6	-253.277	237.191	Ø6.000 mm THRU
F7	-200.416	94.366	Ø6.000 mm THRU
F8	-339.733	70.644	Ø6.000 mm THRU
F9	-346.649	15.593	Ø6.000 mm THRU
F10	-341.311	-62.575	Ø6.000 mm THRU
F11	-321.255	-99.263	Ø6.000 mm THRU
F12	-325.038	-121.487	Ø6.000 mm THRU
F13	-274.684	-111.804	Ø6.000 mm THRU
F14	-253.574	-236.874	Ø6.000 mm THRU
F15	-213.934	-273.206	Ø6.000 mm THRU
F16	0.000	-258.743	Ø6.000 mm THRU
F17	0.000	-347.000	Ø6.000 mm THRU
F18	213.934	-273.206	Ø6.000 mm THRU
F19	235.310	-255.026	Ø6.000 mm THRU
F20	190.696	-249.073	Ø6.000 mm THRU
F21	209.294	-101.721	Ø6.000 mm THRU
F22	325.038	-121.487	Ø6.000 mm THRU
F23	326.822	-100.408	Ø6.000 mm THRU
F24	341.311	-62.575	Ø6.000 mm THRU
F25	346.903	-11.700	Ø6.000 mm THRU
F26	339.733	70.644	Ø6.000 mm THRU
F27	240.593	88.913	Ø6.000 mm THRU
F28	262.878	226.504	Ø6.000 mm THRU
0.0	0.000	0.000	-



SCALE 1:2
"OUTSIDE"

This sheet shows holes to mount the Field Cage Termination plates.

Hole locations have tolerance is 0.006 true position within a frame defined by holes B1, B11, B21, and B31 (see sheet 21).

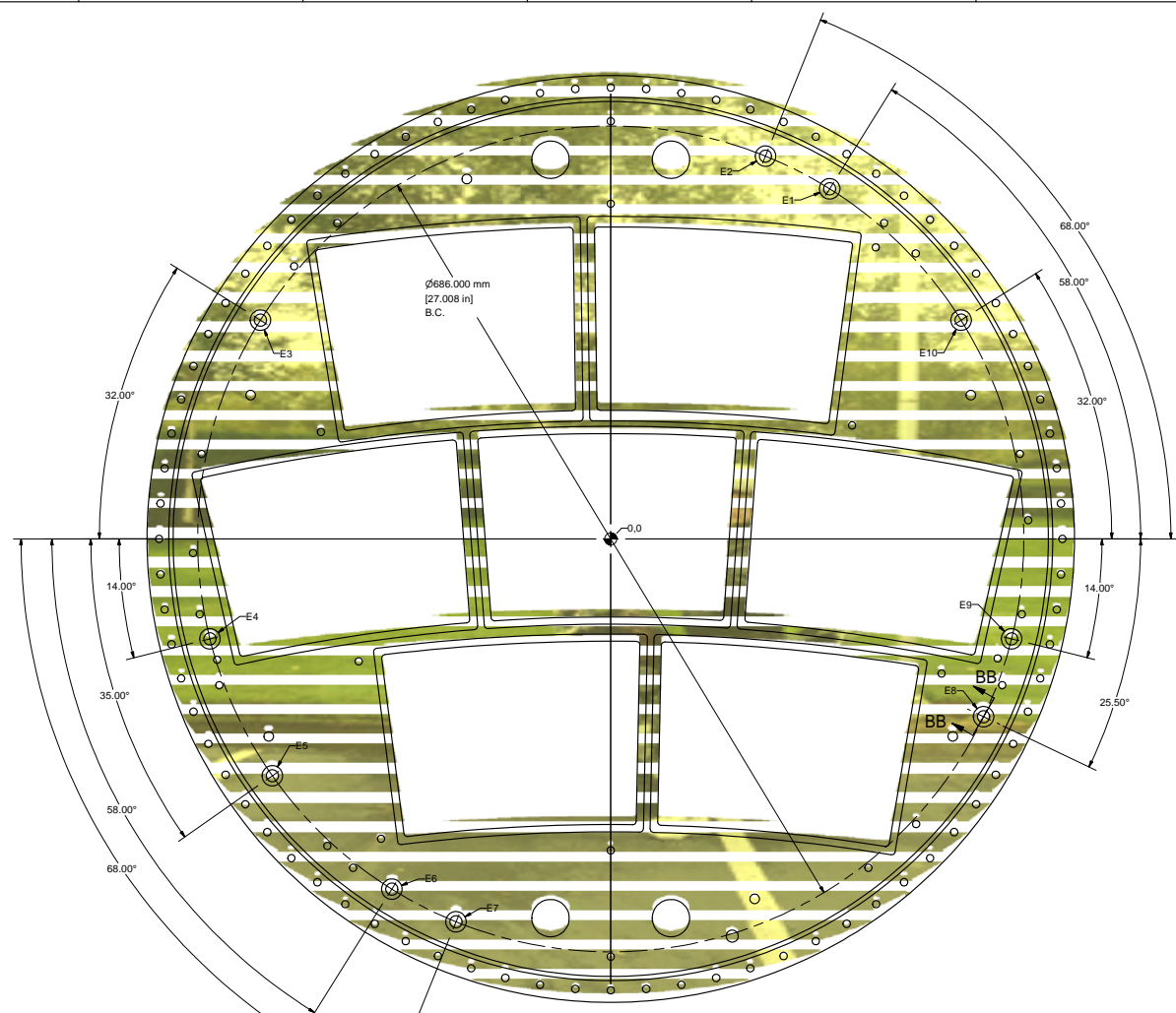
Features are to be initiated in process step 1. Holes may be delayed to process step 5.

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

PRINT DISTR.	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw	 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	LP1 Endplate 3_Endplate Only

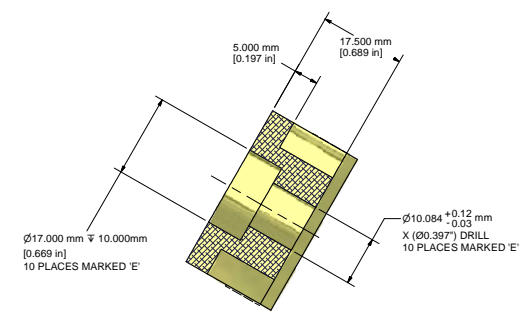
CHECKED BY:	DRAWN BY:	DRAWN FOR:	DATE:	SCALE:	6080-171	REV.
	TMK	DPP	2/23/2011	D	SH. NO. 8 OF 22	

REVISIONS		
SYM	ZONE	DESCRIPTION



Hole Table in mm

HOLE	XDIM (Alt)	YDIM (Alt)	DESCRIPTION
E1	181.762	290.880	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E2	128.490	318.024	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E3	-290.880	181.762	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E4	-332.811	-82.979	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E5	-280.969	-196.737	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E6	-181.762	-290.880	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E7	-128.490	-318.024	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E8	309.587	-147.665	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E9	332.811	-82.979	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
E10	290.880	181.762	$\phi 10.084\text{ mm}$ THRU $\perp \phi 17.000\text{ mm} \mp 7.500\text{ mm}$
0.0	0.000	0.000	-



SCALE 1:2
"INSIDE"

This sheet shows holes to accept HV connectors for the Field Cage Termination.

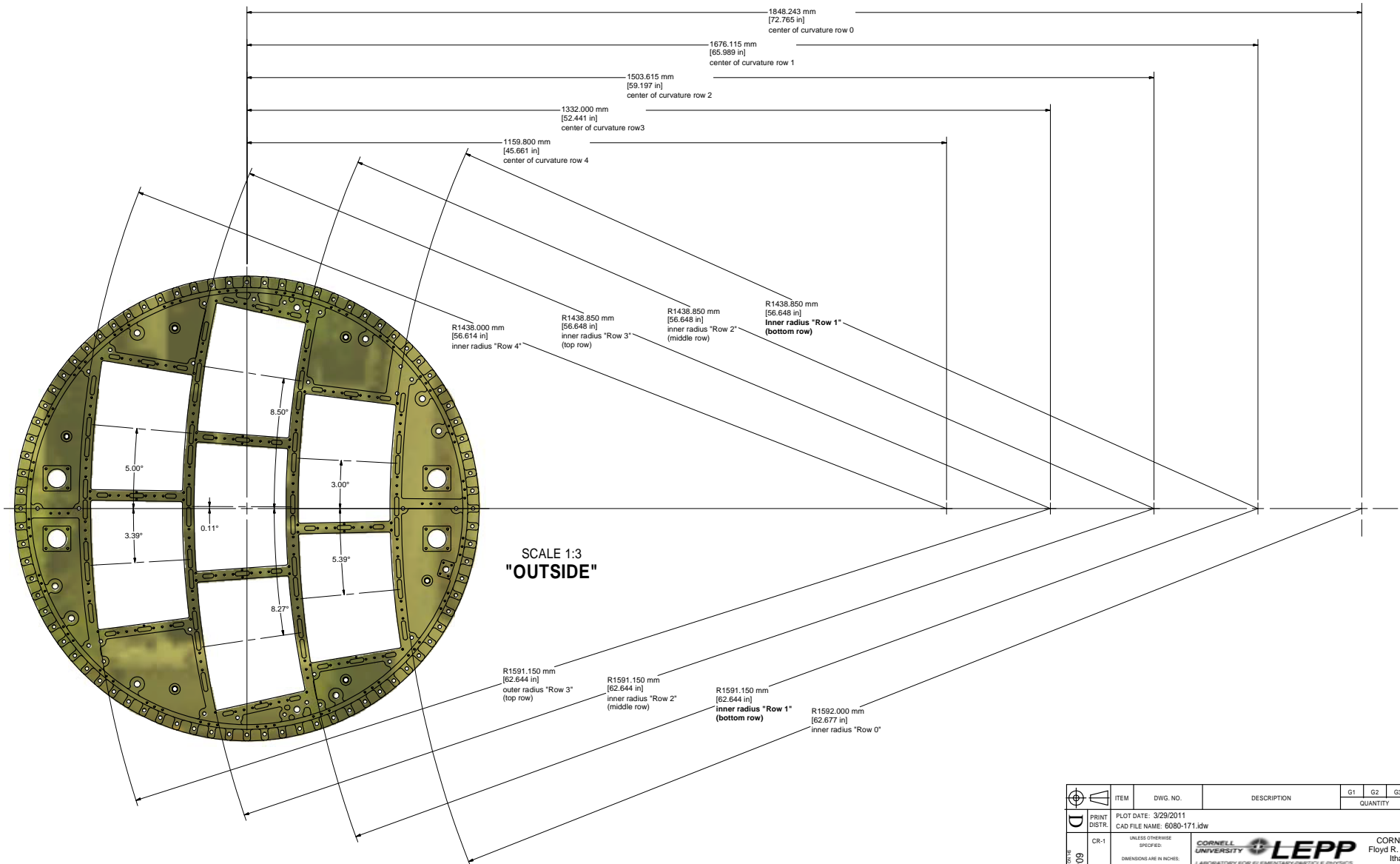
Hole locations have tolerance is +/- 0.010 inch.

Holes are to be initiated in process step 1.
Counterbore may be delayed to process step 5.

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

PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw
CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .015 ± .01 .030 ± .010 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES <input checked="" type="checkbox"/>
6080-171	CORNELL UNIVERSITY LABORATORY FOR SUBATOMIC PARTICLES PHYSICS LEPP CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
REV.	LP1 Endplate 3_Endplate Only
	DRAWN BY: TMK DRAWN FOR: DPP DATE: 2/23/2011 SCALE: D 6080-171 SH. NO. 9 OF 22

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



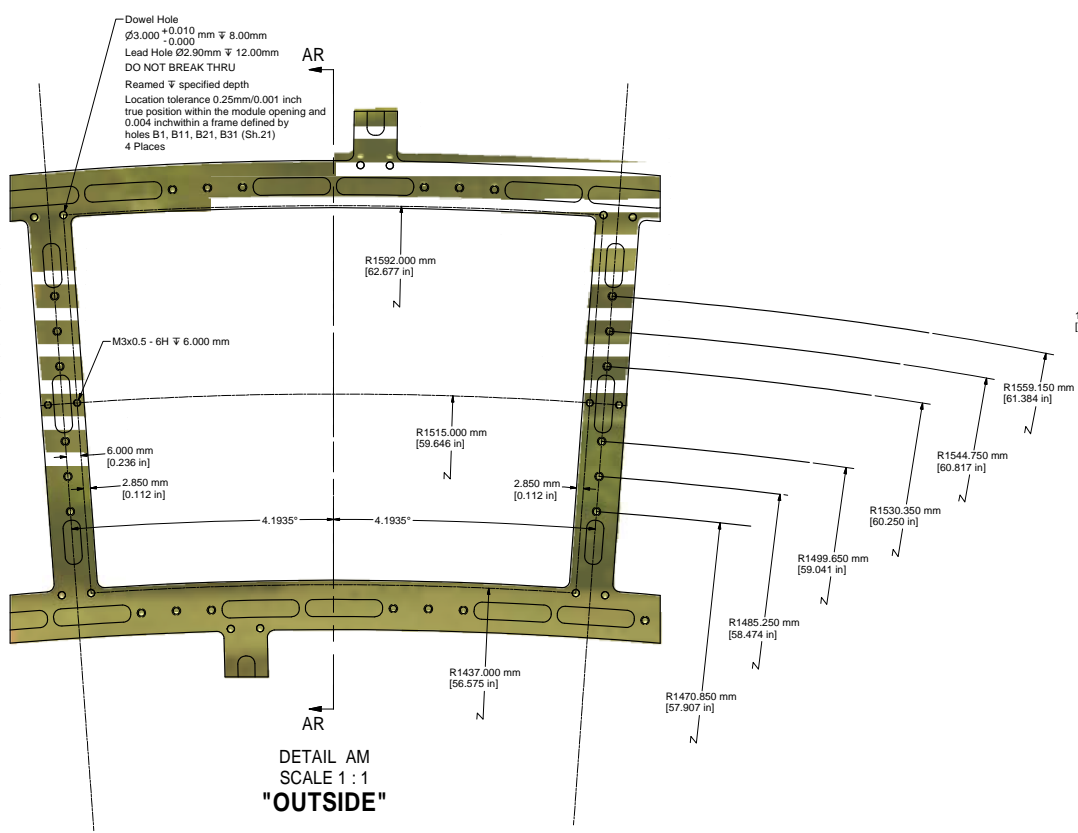
This sheet shows the locations of seven (7) replications of the Module Opening on the Endplate.

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
				QUANTITY				
6080-171	CR-1	6080-171	LP1 Endplate 3_Endplate Only					

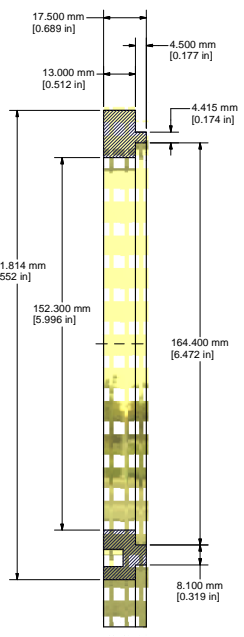
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .5 ± .02 .00 ± .010 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES ✓	CORNELL UNIVERSITY LEPP LABORATORY FOR SUBATOMIC PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------

CHECKED BY:	DRAWN BY: TMK	DRAWN FOR: DPP	DATE: 2/23/2011	SCALE: D	6080-171	REV.
APPROVED BY:					SH. NO. 10 OF 22	

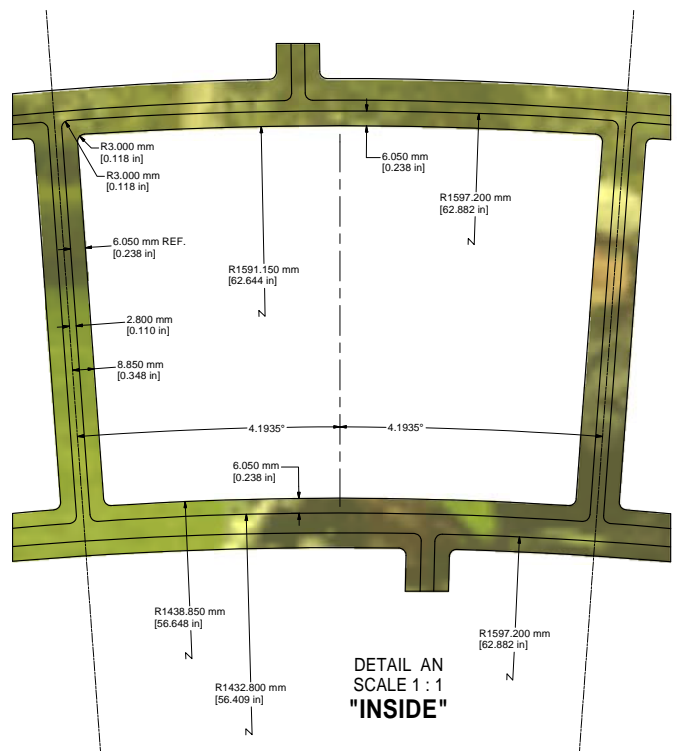
REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



DETAIL AM
SCALE 1 : 1
"OUTSIDE"



SECTION AR-AR
SCALE 1 : 1



DETAIL AN
SCALE 1 : 1
"INSIDE"

This sheet shows the details of features that are placed within each module opening.

Dowel holes have location tolerance 0.001 inch true position within the module opening and 0.004 inch true position within a frame defined by holes B1, B11, B21, B31 (see sheet 21). Surface features have tolerance +/-0.002 inch within the module opening.

Certification measurements for dowel holes and surface features, within the module opening, are shown on sheet 20.

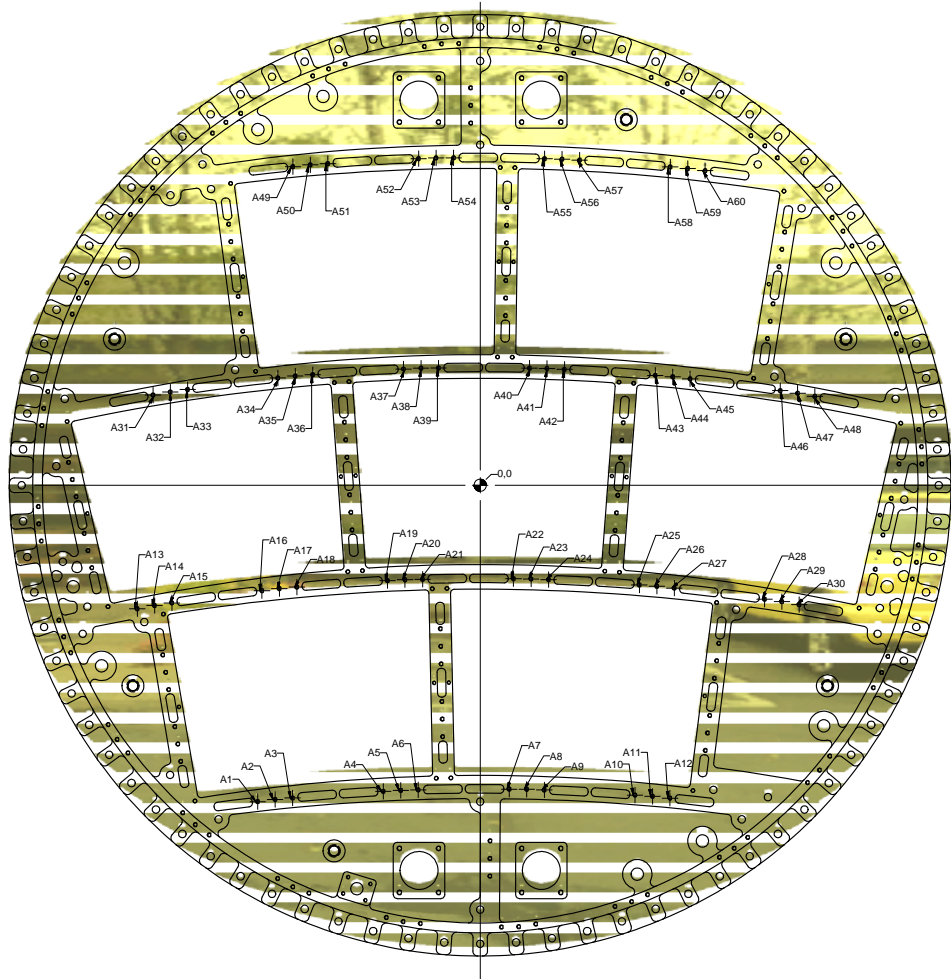
Certification measurements for dowel holes, within the frame defined by holes B1, B11, B21, & B31, are shown on sheet 22.

TO CREATE THE VIEWS ON THIS SHEET THE ENDPLATE WAS ROTATED AROUND IT'S AXIS SLIGHTLY SO THE MODULE OPENING WOULD BE SQUARED IN THE VIEW.

Features of the module opening are to be initiated in process step 1.
Dowel holes are to be made in process step 5, without pre-drilling in earlier steps.
Threaded holes are to be made in process step 5.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw						
CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .5 ± .01 .00 ± .005 .000 ± .005 FRACTIONS ± 1/100 ANGLES ± 1/10° ALL SURFACES <input checked="" type="checkbox"/>		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853				
6080-171	LP1 Endplate 3_Endplate Only						
REV.	CHECKED BY:	DRAWN BY:	DRAWN FOR:	DATE:	SCALE:	6080-171	REV.
		TMK	DPP	2/23/2011	D	SH. NO. 11 OF 22	

REVISIONS		DATE	APP.
SYM.	ZONE	DESCRIPTION	



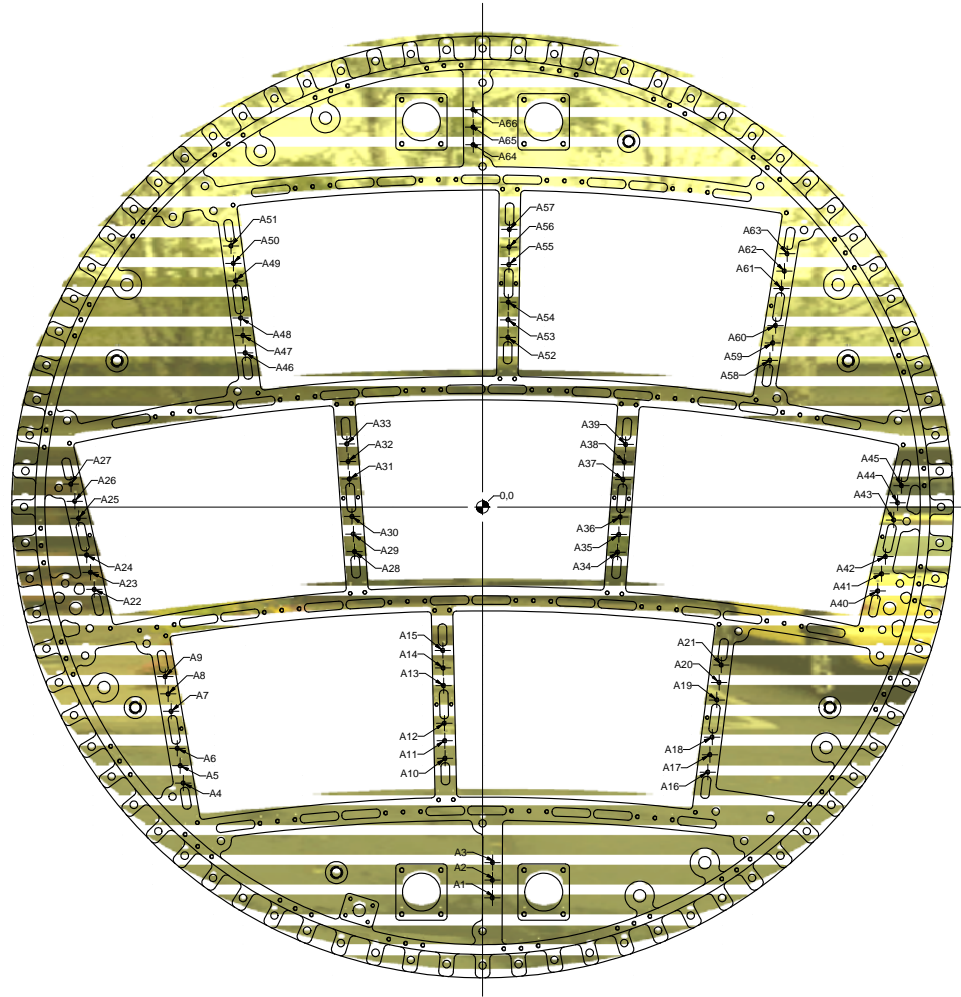
SCALE 1:2
"OUTSIDE"

Hole Table in mm			
HOLE	XDIM (Aft)	YDIM (Aft)	DESCRIPTION
A1	-181.932	-258.700	6-32 UNC - 2B ∇ 8.000 mm
A2	-167.700	-256.968	6-32 UNC - 2B ∇ 8.000 mm
A3	-153.419	-255.695	6-32 UNC - 2B ∇ 8.000 mm
A4	-79.247	-250.286	6-32 UNC - 2B ∇ 8.000 mm
A5	-64.933	-249.474	6-32 UNC - 2B ∇ 8.000 mm
A6	-50.600	-249.122	6-32 UNC - 2B ∇ 8.000 mm
A7	23.767	-248.499	6-32 UNC - 2B ∇ 8.000 mm
A8	38.104	-248.609	6-32 UNC - 2B ∇ 8.000 mm
A9	52.429	-249.181	6-32 UNC - 2B ∇ 8.000 mm
A10	126.682	-253.345	6-32 UNC - 2B ∇ 8.000 mm
A11	140.982	-254.378	6-32 UNC - 2B ∇ 8.000 mm
A12	155.241	-255.871	6-32 UNC - 2B ∇ 8.000 mm
A13	293.404	-100.559	6-32 UNC - 2B ∇ 8.000 mm
A14	-266.307	-98.344	6-32 UNC - 2B ∇ 8.000 mm
A15	-252.134	-96.186	6-32 UNC - 2B ∇ 8.000 mm
A16	-178.441	-86.176	6-32 UNC - 2B ∇ 8.000 mm
A17	-164.205	-84.475	6-32 UNC - 2B ∇ 8.000 mm
A18	-149.922	-83.234	6-32 UNC - 2B ∇ 8.000 mm
A19	-75.738	-77.988	6-32 UNC - 2B ∇ 8.000 mm
A20	-61.422	-77.207	6-32 UNC - 2B ∇ 8.000 mm
A21	-47.089	-76.887	6-32 UNC - 2B ∇ 8.000 mm
A22	27.273	-76.427	6-32 UNC - 2B ∇ 8.000 mm
A23	41.616	-76.569	6-32 UNC - 2B ∇ 8.000 mm
A24	55.940	-77.172	6-32 UNC - 2B ∇ 8.000 mm
A25	130.184	-81.499	6-32 UNC - 2B ∇ 8.000 mm
A26	144.481	-82.954	6-32 UNC - 2B ∇ 8.000 mm
A27	158.737	-84.086	6-32 UNC - 2B ∇ 8.000 mm
A28	232.548	-93.185	6-32 UNC - 2B ∇ 8.000 mm
A29	246.747	-95.167	6-32 UNC - 2B ∇ 8.000 mm
A30	260.875	-97.606	6-32 UNC - 2B ∇ 8.000 mm
A31	-287.534	73.779	6-32 UNC - 2B ∇ 8.000 mm
A32	-253.417	76.277	6-32 UNC - 2B ∇ 8.000 mm
A33	-239.226	78.320	6-32 UNC - 2B ∇ 8.000 mm
A34	-165.454	87.728	6-32 UNC - 2B ∇ 8.000 mm
A35	-151.205	89.312	6-32 UNC - 2B ∇ 8.000 mm
A36	-136.912	90.437	6-32 UNC - 2B ∇ 8.000 mm
A37	-62.687	95.077	6-32 UNC - 2B ∇ 8.000 mm
A38	-48.366	95.741	6-32 UNC - 2B ∇ 8.000 mm
A39	-34.030	95.944	6-32 UNC - 2B ∇ 8.000 mm
A40	40.339	95.797	6-32 UNC - 2B ∇ 8.000 mm
A41	54.674	95.538	6-32 UNC - 2B ∇ 8.000 mm
A42	68.993	94.818	6-32 UNC - 2B ∇ 8.000 mm
A43	143.199	89.885	6-32 UNC - 2B ∇ 8.000 mm
A44	157.467	88.703	6-32 UNC - 2B ∇ 8.000 mm
A45	171.730	87.063	6-32 UNC - 2B ∇ 8.000 mm
A46	245.464	77.364	6-32 UNC - 2B ∇ 8.000 mm
A47	259.647	75.266	6-32 UNC - 2B ∇ 8.000 mm
A48	273.754	72.712	6-32 UNC - 2B ∇ 8.000 mm
A49	-153.176	260.572	6-32 UNC - 2B ∇ 8.000 mm
A50	-138.915	262.046	6-32 UNC - 2B ∇ 8.000 mm
A51	-124.614	263.061	6-32 UNC - 2B ∇ 8.000 mm
A52	-50.356	267.128	6-32 UNC - 2B ∇ 8.000 mm
A53	-36.029	267.682	6-32 UNC - 2B ∇ 8.000 mm
A54	-21.693	267.741	6-32 UNC - 2B ∇ 8.000 mm
A55	52.673	267.054	6-32 UNC - 2B ∇ 8.000 mm
A56	67.006	266.684	6-32 UNC - 2B ∇ 8.000 mm
A57	81.319	265.853	6-32 UNC - 2B ∇ 8.000 mm
A58	155.484	260.348	6-32 UNC - 2B ∇ 8.000 mm
A59	169.763	259.056	6-32 UNC - 2B ∇ 8.000 mm
A60	183.992	257.306	6-32 UNC - 2B ∇ 8.000 mm
0.0	0.000	0.000	-

This sheet shows attachment holes for STRUT MOUNTS "ABOVE-ROWS".
The patterns are on arcs.
Threaded holes are to be made in process step 5.

ITEM	DWG. NO.	DESCRIPTION	QUANTITY			REMARKS	REV.
			G1	G2	G3		
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw						
CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: .0000 ± .0005 .0000 ± .0005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES ∇	 CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853		LP1 Endplate 3_Endplate Only			
DRAWN BY	APPROVED BY	DRAWN FOR	DATE	SCALE			
TMK		DPP	2/23/2011	D	6080-171	REV.	
					SH NO. 12	OF 22	

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE



Hole Table in mm			
HOLE	XDIM (A#)	YDIM (A#)	DESCRIPTION
A1	8.004	-319.614	6-32 UNC - 2B ∇ 8.000 mm
A2	8.079	-305.214	6-32 UNC - 2B ∇ 8.000 mm
A3	8.155	-290.814	6-32 UNC - 2B ∇ 8.000 mm
A4	-244.798	-225.779	6-32 UNC - 2B ∇ 8.000 mm
A5	-247.195	-211.580	6-32 UNC - 2B ∇ 8.000 mm
A6	-249.591	-197.381	6-32 UNC - 2B ∇ 8.000 mm
A7	-254.701	-167.109	6-32 UNC - 2B ∇ 8.000 mm
A8	-257.097	-152.910	6-32 UNC - 2B ∇ 8.000 mm
A9	-259.494	-138.711	6-32 UNC - 2B ∇ 8.000 mm
A10	-30.636	-205.584	6-32 UNC - 2B ∇ 8.000 mm
A11	-30.936	-191.187	6-32 UNC - 2B ∇ 8.000 mm
A12	-31.236	-176.790	6-32 UNC - 2B ∇ 8.000 mm
A13	-31.576	-148.097	6-32 UNC - 2B ∇ 8.000 mm
A14	-32.176	-131.700	6-32 UNC - 2B ∇ 8.000 mm
A15	-32.475	-117.303	6-32 UNC - 2B ∇ 8.000 mm
A16	184.181	-216.842	6-32 UNC - 2B ∇ 8.000 mm
A17	185.984	-202.556	6-32 UNC - 2B ∇ 8.000 mm
A18	187.787	-188.269	6-32 UNC - 2B ∇ 8.000 mm
A19	191.631	-157.811	6-32 UNC - 2B ∇ 8.000 mm
A20	193.435	-143.524	6-32 UNC - 2B ∇ 8.000 mm
A21	195.238	-129.237	6-32 UNC - 2B ∇ 8.000 mm
A22	-317.535	-67.450	6-32 UNC - 2B ∇ 8.000 mm
A23	-320.844	-53.399	6-32 UNC - 2B ∇ 8.000 mm
A24	-323.753	-39.329	6-32 UNC - 2B ∇ 8.000 mm
A25	-330.380	-9.353	6-32 UNC - 2B ∇ 8.000 mm
A26	-333.489	4.708	6-32 UNC - 2B ∇ 8.000 mm
A27	-336.598	18.768	6-32 UNC - 2B ∇ 8.000 mm
A28	-104.862	-36.494	6-32 UNC - 2B ∇ 8.000 mm
A29	-105.887	-22.130	6-32 UNC - 2B ∇ 8.000 mm
A30	-106.712	-7.767	6-32 UNC - 2B ∇ 8.000 mm
A31	-108.896	22.856	6-32 UNC - 2B ∇ 8.000 mm
A32	-109.921	57.219	6-32 UNC - 2B ∇ 8.000 mm
A33	-110.946	51.583	6-32 UNC - 2B ∇ 8.000 mm
A34	110.449	-36.918	6-32 UNC - 2B ∇ 8.000 mm
A35	111.630	-22.558	6-32 UNC - 2B ∇ 8.000 mm
A36	112.812	-8.199	6-32 UNC - 2B ∇ 8.000 mm
A37	114.917	22.414	6-32 UNC - 2B ∇ 8.000 mm
A38	115.998	36.774	6-32 UNC - 2B ∇ 8.000 mm
A39	117.080	51.133	6-32 UNC - 2B ∇ 8.000 mm
A40	323.198	-68.713	6-32 UNC - 2B ∇ 8.000 mm
A41	326.362	-54.665	6-32 UNC - 2B ∇ 8.000 mm
A42	329.526	-40.617	6-32 UNC - 2B ∇ 8.000 mm
A43	336.272	-10.668	6-32 UNC - 2B ∇ 8.000 mm
A44	339.436	3.381	6-32 UNC - 2B ∇ 8.000 mm
A45	342.601	17.429	6-32 UNC - 2B ∇ 8.000 mm
A46	-194.033	125.996	6-32 UNC - 2B ∇ 8.000 mm
A47	-195.833	140.270	6-32 UNC - 2B ∇ 8.000 mm
A48	-197.832	154.544	6-32 UNC - 2B ∇ 8.000 mm
A49	-201.882	184.976	6-32 UNC - 2B ∇ 8.000 mm
A50	-203.782	199.250	6-32 UNC - 2B ∇ 8.000 mm
A51	-205.681	213.524	6-32 UNC - 2B ∇ 8.000 mm
A52	20.703	138.704	6-32 UNC - 2B ∇ 8.000 mm
A53	20.906	153.103	6-32 UNC - 2B ∇ 8.000 mm
A54	21.109	167.501	6-32 UNC - 2B ∇ 8.000 mm
A55	21.541	188.198	6-32 UNC - 2B ∇ 8.000 mm
A56	21.743	212.597	6-32 UNC - 2B ∇ 8.000 mm
A57	21.946	226.996	6-32 UNC - 2B ∇ 8.000 mm
A58	234.996	119.956	6-32 UNC - 2B ∇ 8.000 mm
A59	237.297	134.171	6-32 UNC - 2B ∇ 8.000 mm
A60	239.598	148.386	6-32 UNC - 2B ∇ 8.000 mm
A61	244.503	178.692	6-32 UNC - 2B ∇ 8.000 mm
A62	246.803	192.907	6-32 UNC - 2B ∇ 8.000 mm
A63	248.104	207.122	6-32 UNC - 2B ∇ 8.000 mm
A64	-7.624	286.240	6-32 UNC - 2B ∇ 8.000 mm
A65	-7.699	310.640	6-32 UNC - 2B ∇ 8.000 mm
A66	-7.775	325.040	6-32 UNC - 2B ∇ 8.000 mm
0,0	0.000	0.000	-

SCALE 1:2
"OUTSIDE"

This sheet shows attachment holes for STRUT MOUNTS "IN-ROWS".
The patterns are on radial lines.
Threaded holes are to be made in process step 5.

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

PRINT DATE: 3/29/2011
CAD FILE NAME: 6080-171.idw

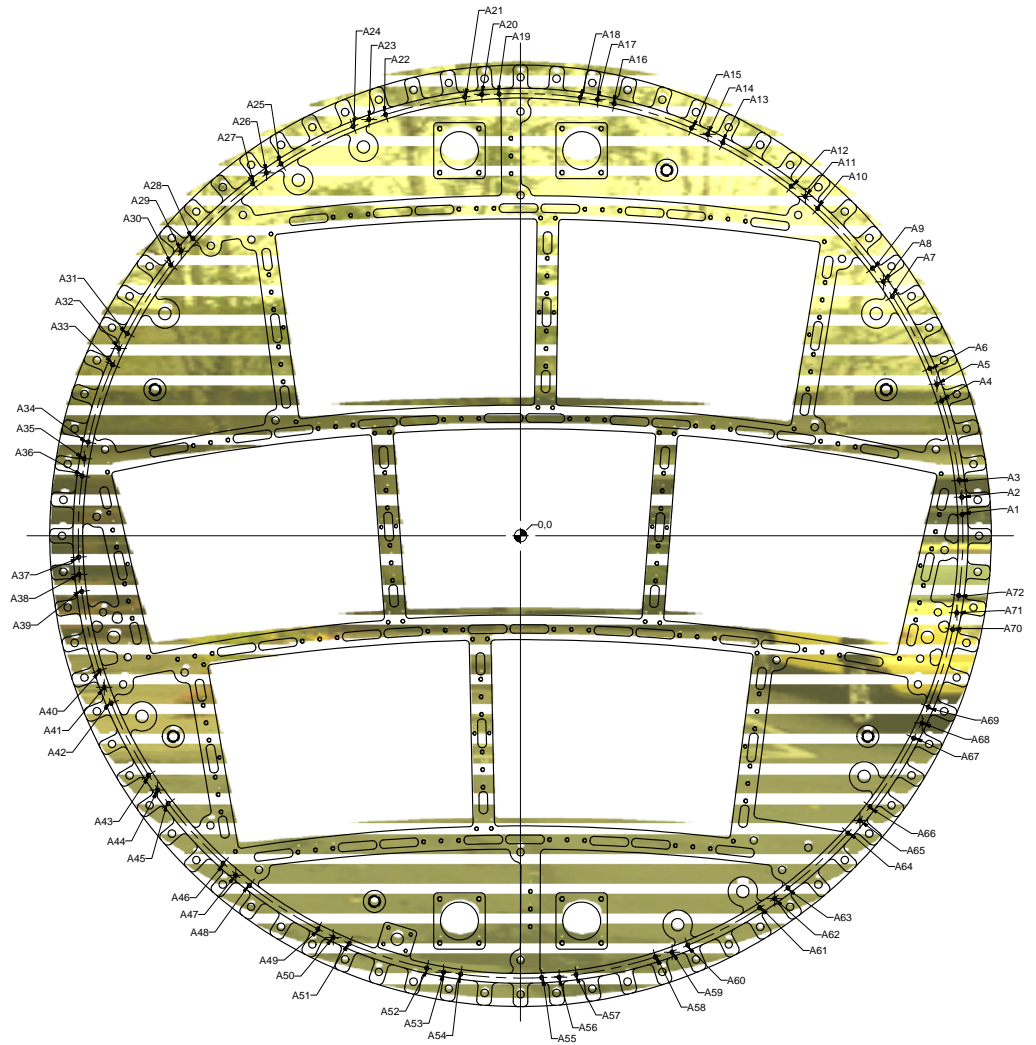
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES:
TOLERANCES ON:
.5" & GT: .005
.1" & .5": .0025
FRACTIONS < .1": .002
ANGLES < 90°: .01°
ALL SURFACES: ∇

CORNELL UNIVERSITY
LEPP
LABORATORY FOR ELEMENTARY PARTICLES PHYSICS
FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

LP1 Endplate 3_Endplate Only

DRAWN BY: TMK
DRAWN FOR: DPP
DATE: 2/23/2011
SCALE: D
6080-171
SH. NO. 13 OF 22
REV.

REVISIONS		DATE	APP.
SYM.	ZONE	DESCRIPTION	



HOLE	Hole Table in mm		DESCRIPTION
	XDIM (AIR)	YDIM (AIR)	
A1	361.274	17.423	6-32 UNC - 2B ∇ 8.000 mm
A2	360.965	31.580	6-32 UNC - 2B ∇ 8.000 mm
A3	358.811	45.576	6-32 UNC - 2B ∇ 8.000 mm
A4	344.455	110.334	6-32 UNC - 2B ∇ 8.000 mm
A5	340.492	123.929	6-32 UNC - 2B ∇ 8.000 mm
A6	334.789	136.891	6-32 UNC - 2B ∇ 8.000 mm
A7	304.161	195.726	6-32 UNC - 2B ∇ 8.000 mm
A8	296.815	207.832	6-32 UNC - 2B ∇ 8.000 mm
A9	287.951	218.876	6-32 UNC - 2B ∇ 8.000 mm
A10	243.140	267.779	6-32 UNC - 2B ∇ 8.000 mm
A11	232.910	277.572	6-32 UNC - 2B ∇ 8.000 mm
A12	221.490	285.945	6-32 UNC - 2B ∇ 8.000 mm
A13	185.548	321.584	6-32 UNC - 2B ∇ 8.000 mm
A14	153.133	328.395	6-32 UNC - 2B ∇ 8.000 mm
A15	139.935	333.528	6-32 UNC - 2B ∇ 8.000 mm
A16	76.675	353.473	6-32 UNC - 2B ∇ 8.000 mm
A17	62.920	356.839	6-32 UNC - 2B ∇ 8.000 mm
A18	48.844	358.381	6-32 UNC - 2B ∇ 8.000 mm
A19	-17.423	361.274	6-32 UNC - 2B ∇ 8.000 mm
A20	-31.580	360.965	6-32 UNC - 2B ∇ 8.000 mm
A21	-45.576	358.811	6-32 UNC - 2B ∇ 8.000 mm
A22	-110.334	344.455	6-32 UNC - 2B ∇ 8.000 mm
A23	-123.929	340.492	6-32 UNC - 2B ∇ 8.000 mm
A24	-136.891	334.789	6-32 UNC - 2B ∇ 8.000 mm
A25	-195.726	304.161	6-32 UNC - 2B ∇ 8.000 mm
A26	-207.832	296.815	6-32 UNC - 2B ∇ 8.000 mm
A27	-218.876	287.951	6-32 UNC - 2B ∇ 8.000 mm
A28	-267.779	243.140	6-32 UNC - 2B ∇ 8.000 mm
A29	-277.572	232.910	6-32 UNC - 2B ∇ 8.000 mm
A30	-285.945	221.490	6-32 UNC - 2B ∇ 8.000 mm
A31	-321.584	185.548	6-32 UNC - 2B ∇ 8.000 mm
A32	-328.395	153.133	6-32 UNC - 2B ∇ 8.000 mm
A33	-333.528	139.935	6-32 UNC - 2B ∇ 8.000 mm
A34	-353.473	76.675	6-32 UNC - 2B ∇ 8.000 mm
A35	-356.839	62.920	6-32 UNC - 2B ∇ 8.000 mm
A36	-358.381	48.844	6-32 UNC - 2B ∇ 8.000 mm
A37	-361.274	-17.423	6-32 UNC - 2B ∇ 8.000 mm
A38	-360.965	-31.580	6-32 UNC - 2B ∇ 8.000 mm
A39	-358.811	-45.576	6-32 UNC - 2B ∇ 8.000 mm
A40	-344.455	-110.334	6-32 UNC - 2B ∇ 8.000 mm
A41	-340.492	-123.929	6-32 UNC - 2B ∇ 8.000 mm
A42	-334.789	-136.891	6-32 UNC - 2B ∇ 8.000 mm
A43	-304.161	-195.726	6-32 UNC - 2B ∇ 8.000 mm
A44	-296.815	-207.832	6-32 UNC - 2B ∇ 8.000 mm
A45	-287.951	-218.876	6-32 UNC - 2B ∇ 8.000 mm
A46	-243.140	-267.779	6-32 UNC - 2B ∇ 8.000 mm
A47	-232.910	-277.572	6-32 UNC - 2B ∇ 8.000 mm
A48	-221.490	-285.945	6-32 UNC - 2B ∇ 8.000 mm
A49	-185.548	-321.584	6-32 UNC - 2B ∇ 8.000 mm
A50	-153.133	-328.395	6-32 UNC - 2B ∇ 8.000 mm
A51	-139.935	-333.528	6-32 UNC - 2B ∇ 8.000 mm
A52	-76.675	-353.473	6-32 UNC - 2B ∇ 8.000 mm
A53	-62.920	-356.839	6-32 UNC - 2B ∇ 8.000 mm
A54	-48.844	-358.381	6-32 UNC - 2B ∇ 8.000 mm
A55	17.423	-361.274	6-32 UNC - 2B ∇ 8.000 mm
A56	31.580	-360.965	6-32 UNC - 2B ∇ 8.000 mm
A57	45.576	-358.811	6-32 UNC - 2B ∇ 8.000 mm
A58	110.334	-344.455	6-32 UNC - 2B ∇ 8.000 mm
A59	123.929	-340.492	6-32 UNC - 2B ∇ 8.000 mm
A60	136.891	-334.789	6-32 UNC - 2B ∇ 8.000 mm
A61	195.726	-304.161	6-32 UNC - 2B ∇ 8.000 mm
A62	207.832	-296.815	6-32 UNC - 2B ∇ 8.000 mm
A63	218.876	-287.951	6-32 UNC - 2B ∇ 8.000 mm
A64	267.779	-243.140	6-32 UNC - 2B ∇ 8.000 mm
A65	277.572	-232.910	6-32 UNC - 2B ∇ 8.000 mm
A66	285.945	-221.490	6-32 UNC - 2B ∇ 8.000 mm
A67	321.584	-185.548	6-32 UNC - 2B ∇ 8.000 mm
A68	328.395	-153.133	6-32 UNC - 2B ∇ 8.000 mm
A69	333.528	-139.935	6-32 UNC - 2B ∇ 8.000 mm
A70	353.473	-76.675	6-32 UNC - 2B ∇ 8.000 mm
A71	356.839	-62.920	6-32 UNC - 2B ∇ 8.000 mm
A72	358.381	-48.844	6-32 UNC - 2B ∇ 8.000 mm
0.0	0.000	0.000	-

SCALE 1:2
"OUTSIDE"

This sheet shows attachment holes for STRUT MOUNTS "OUTSIDE".
The pattern is a circular pattern with center of curvature at the center of the part.
Threaded holes are to be made in process step 5.

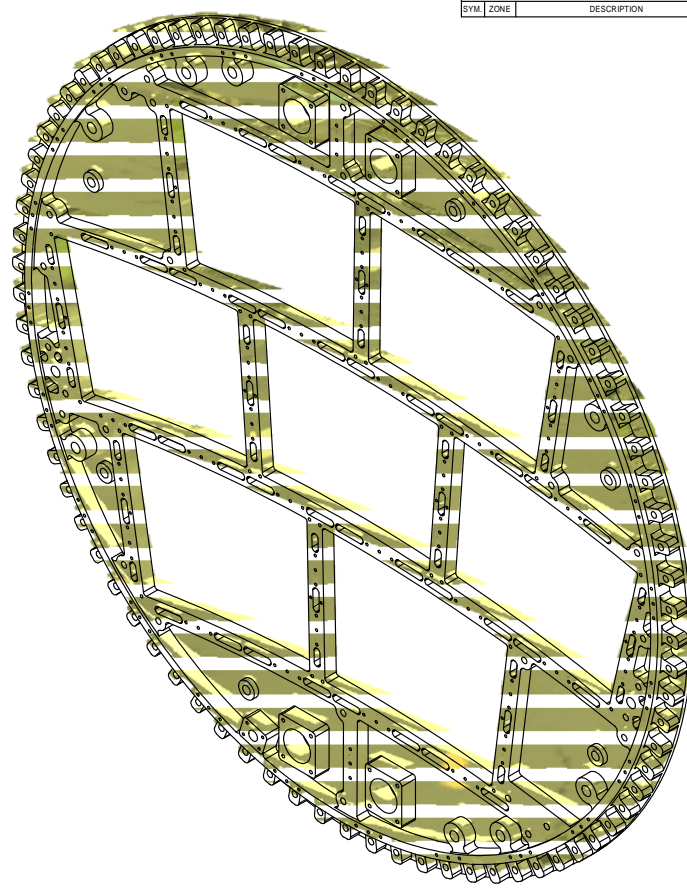
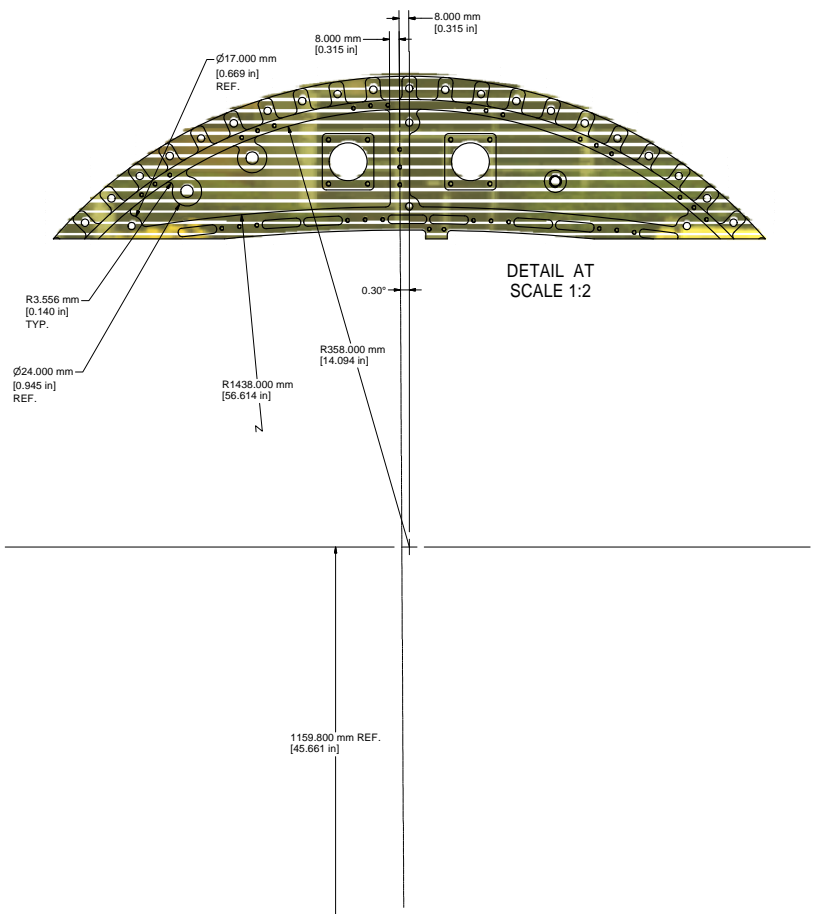
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			G1	G2	G3		
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw						
CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: .015 ± .001 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15° ALL SURFACES ∇						
DRAWN BY TMK		DRAWN FOR DPP		DATE 2/23/2011	SCALE D	REV.	
APPROVED BY				6080-171	SH. NO. 14	OF 22	

CORNELL UNIVERSITY
FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

LP1 Endplate 3_Endplate Only

SCALE 1:2
"OUTSIDE"

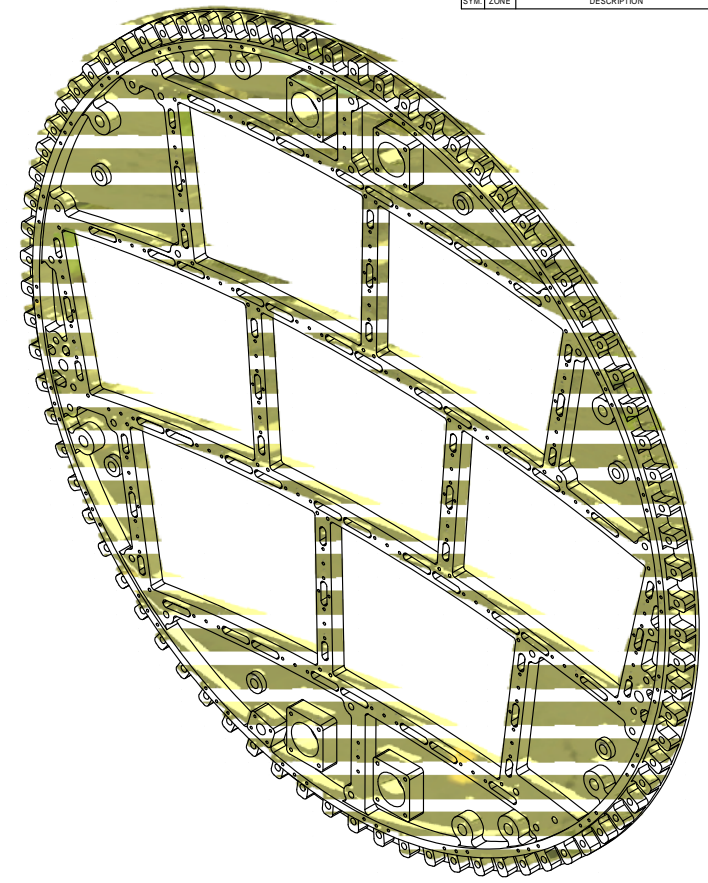
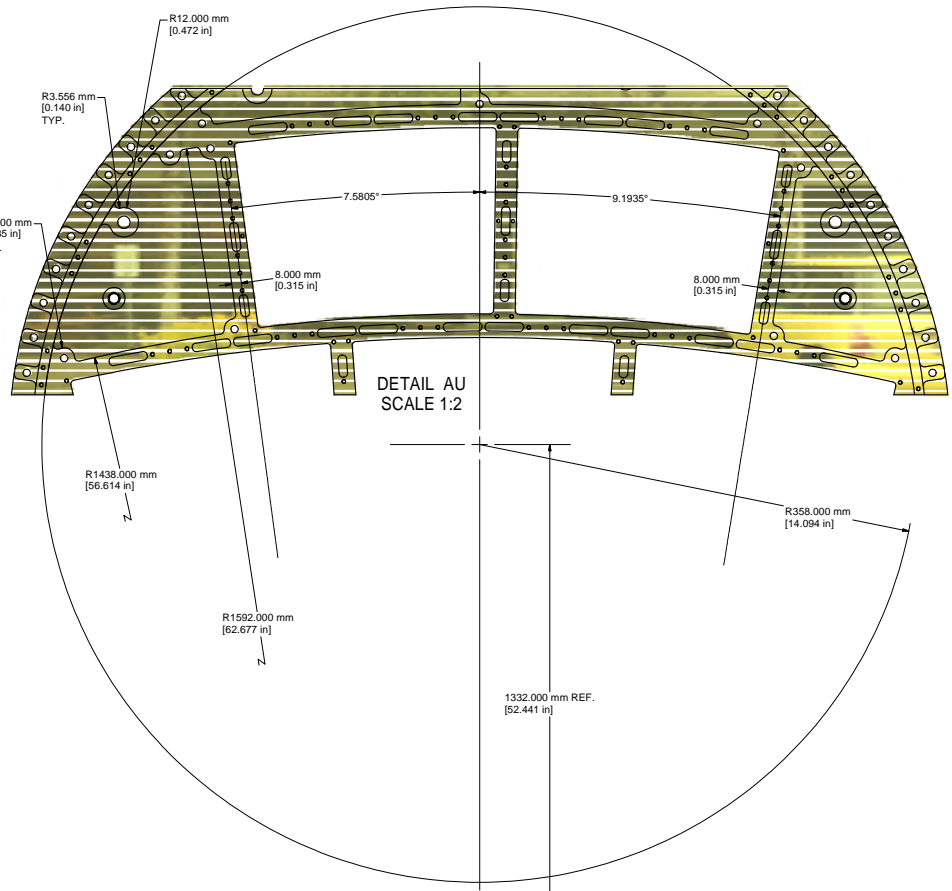
REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



This sheet defines uninstrumented areas in "Row 4".
The center of curvature is defined on Sh.10.
Features of the uninstrumented areas are to be initiated in process step 1.

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1 G2 G3			REMARKS	REV.
				QUANTITY				
D	CR-1	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .5 ± .02 .00 ± .005 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES <input checked="" type="checkbox"/>				CORNELL UNIVERSITY LEPP LABORATORY FOR ELEMENTARY PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 LP1 Endplate 3_Endplate Only	
	6080-171		DRAWN BY: TMK DRAWN FOR: DPP DATE: 2/23/2011 SCALE: D 6080-171 SH. NO. 15 OF 22					

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.

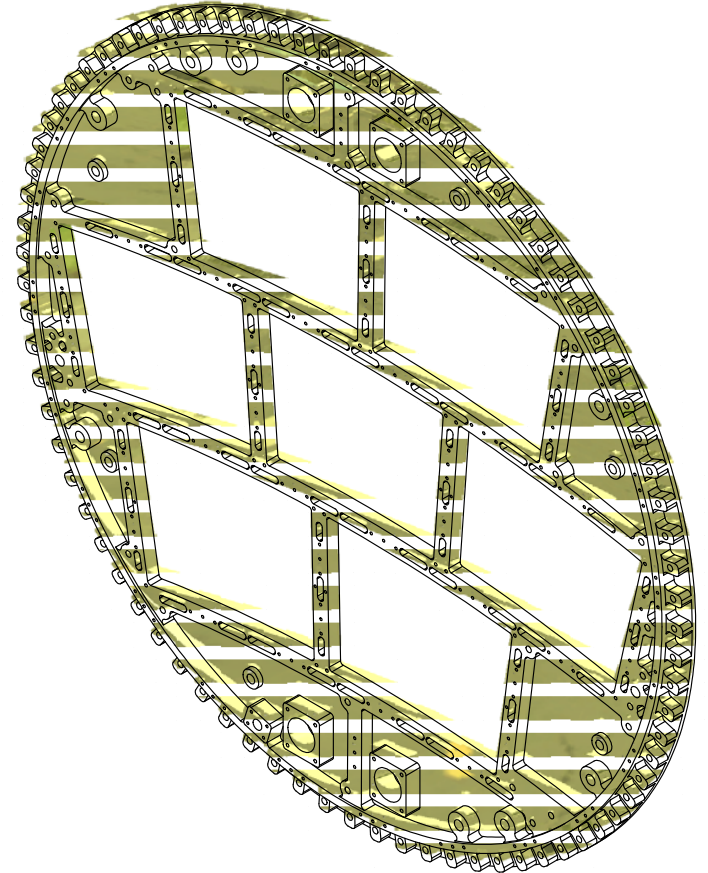
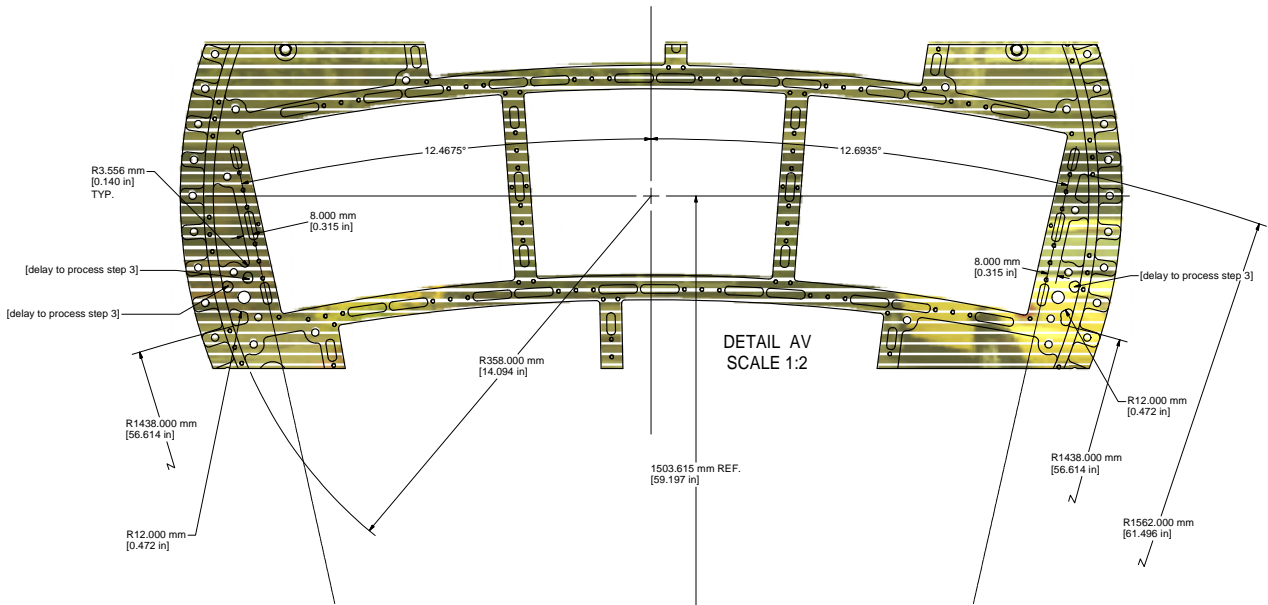


**This sheet defines uninstrumented areas in "Row 3".
 The center of curvature is defined on Sh.10.
 Features of the uninstrumented areas are to be initiated in process step 1.**

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw							
CR-1 6080-171 REV. 16	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .0 ± .01 .00 ± .005 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES <input checked="" type="checkbox"/>		CORNELL UNIVERSITY FLOYD R. NEWMAN LABORATORY ITHACA, NY 14853			LP1 Endplate 3_Endplate Only	
CHECKED BY: APPROVED BY:	DRAWN BY TMK	DRAWN FOR DPP	DATE 2/23/2011	SCALE D	6080-171 SH. NO. 16 OF 22	REV.	

SCALE 1:2
"OUTSIDE"

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



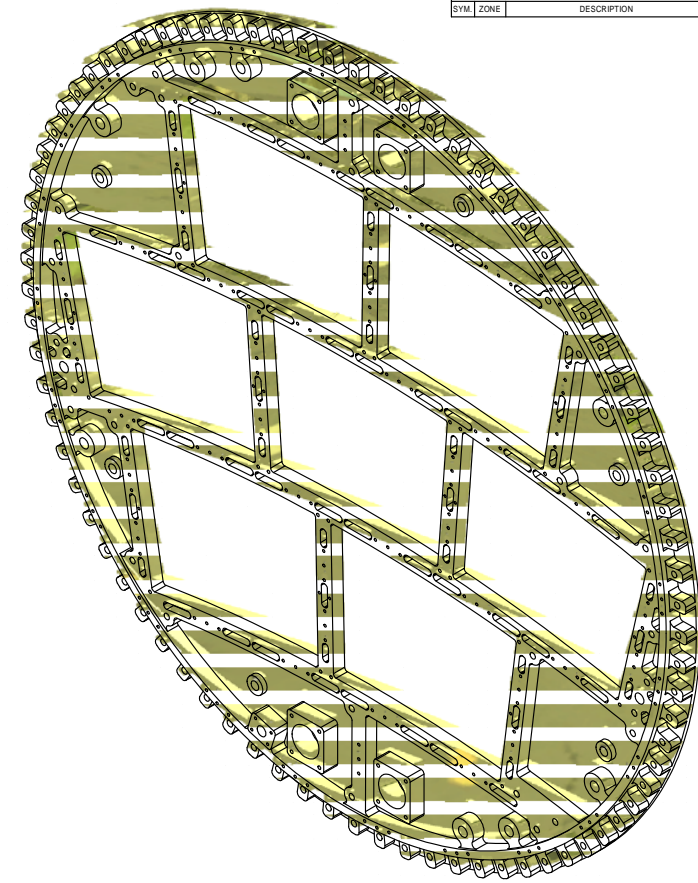
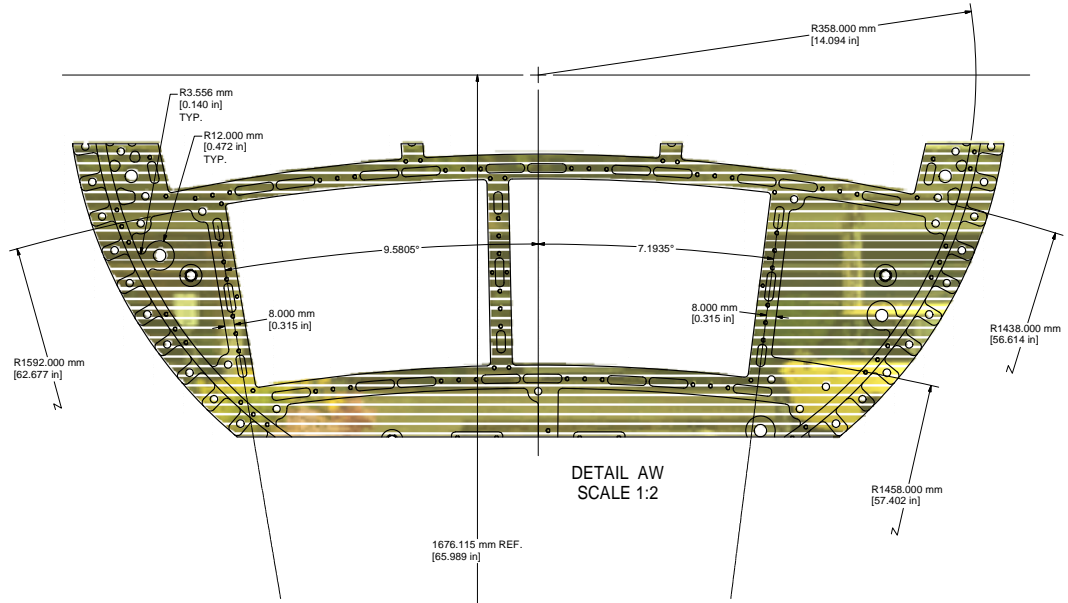
The placement of the various holes creates small areas where material is to be removed in the "uninstrumented area".
 The smallest allows an inscribed circle with diameter 7.897 mm, 0.3109 inch.
 At process step 1, with 0.040 inch material remaining, this allows an inscribed hole with diameter 0.23 inch.
 At process step 3, with 0.015 inch material remaining, this allows an inscribed hole with diameter 0.28 inch.

**This sheet defines uninstrumented areas in "Row 2".
 The center of curvature is defined on Sh.10.
 Features of the uninstrumented areas are to be initiated in process step 1, except as noted.**

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .0 ± .01 .00 ± .005 .000 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES ✓					
		CORNELL UNIVERSITY LABORATORY FOR SUBATOMIC PARTICLES PHYSICS LEPP			CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853		
		LP1 Endplate 3_Endplate Only					
CHECKED BY:	DRAWN BY:	DRAWN FOR:	DATE:	SCALE:	6080-171		REV.
APPROVED BY:	TMK	DPP	2/23/2011	D	SH. NO. 17 OF 22		

SCALE 1:2
"OUTSIDE"

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		

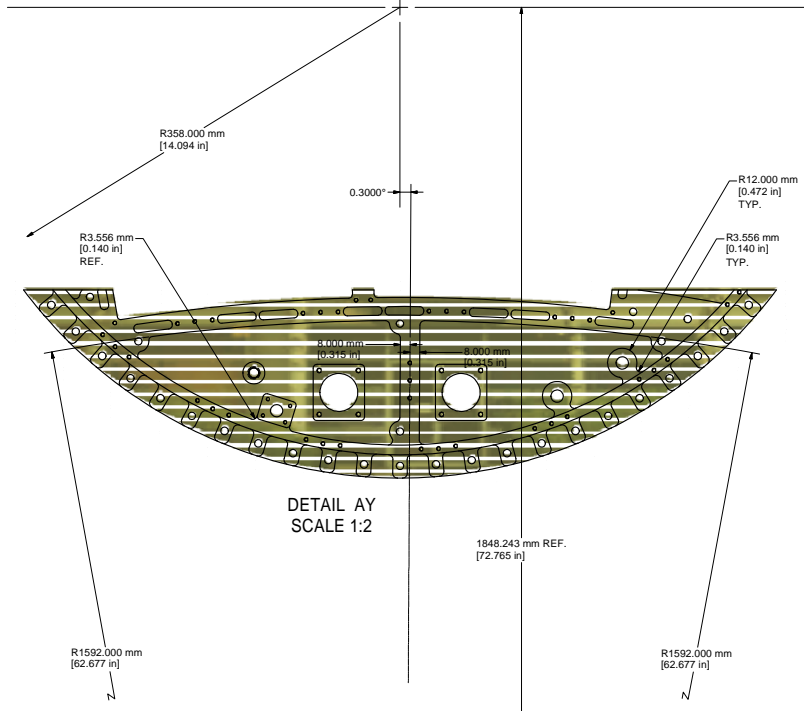


This sheet defines uninstrumented areas in "Row 1".
The center of curvature is defined on Sh.10.
Features of the uninstrumented areas are to be initiated in process step 1.

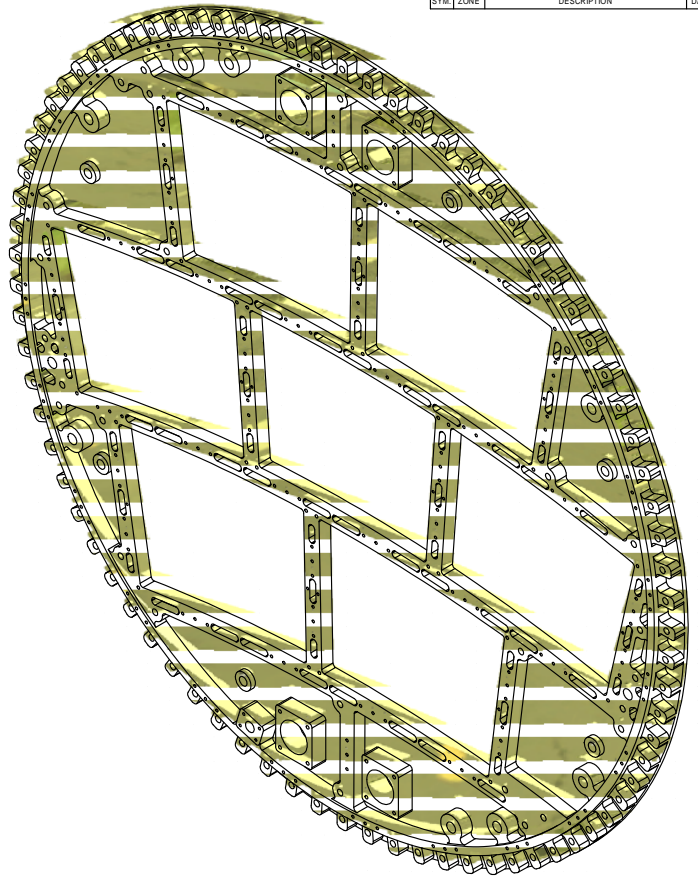
ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .0 ± .01 .00 ± .010 .000 ± .005 FRACTIONS ± 1/100 ANGLES ± 1/2° ALL SURFACES ✓				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	
			LP1 Endplate 3_Endplate Only				
DRAWN BY	TMK	DRAWN FOR	DPP	DATE	2/23/2011	SCALE	D
APPROVED BY							6080-171 SH. NO. 18 OF 22

SCALE 1:2
"OUTSIDE"

REVISIONS			DATE	APP.
SYM.	ZONE	DESCRIPTION		



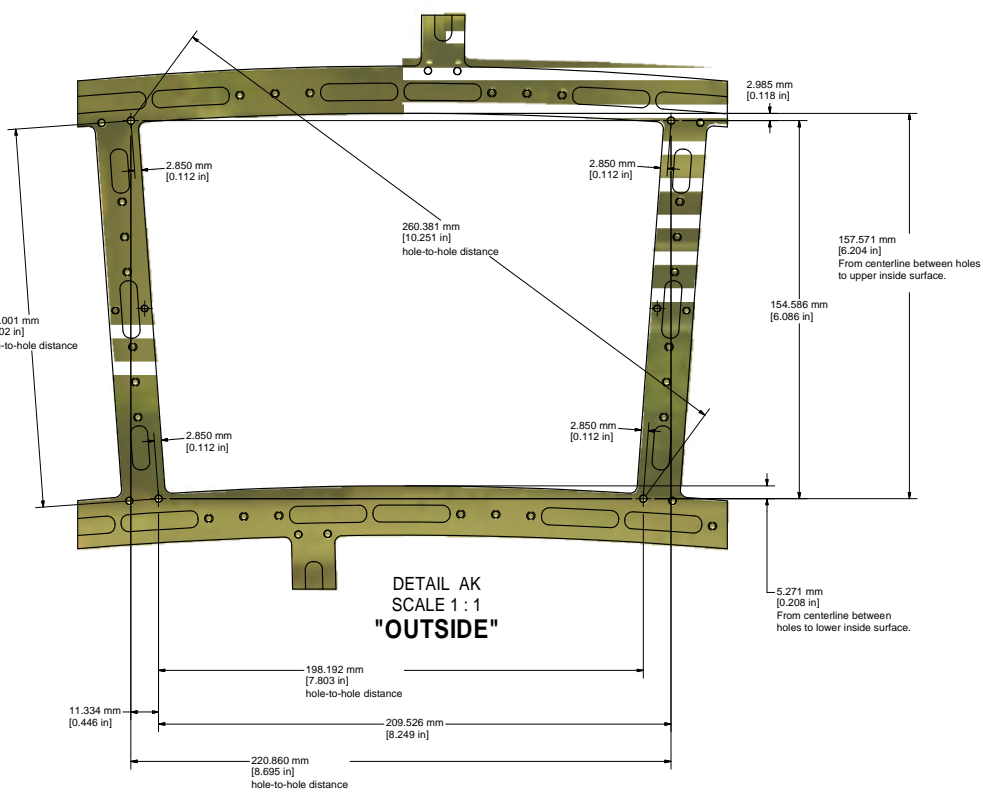
DETAIL AY
SCALE 1:2



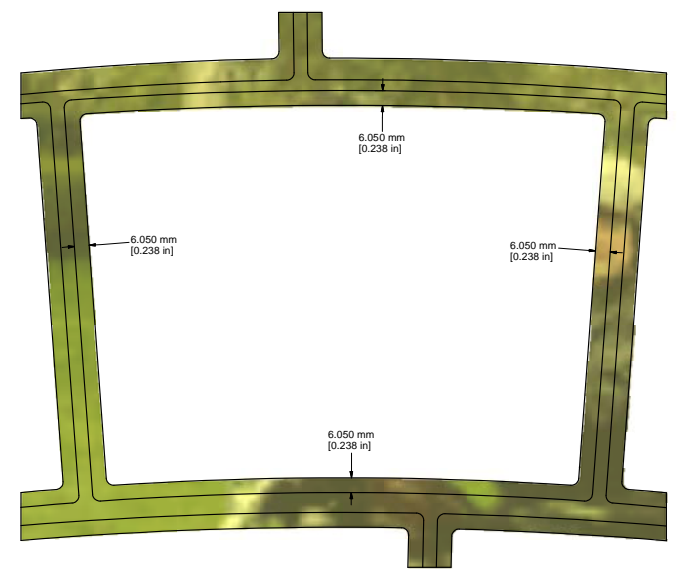
This sheet defines uninstrumented areas in "Row 0".
The center of curvature is defined on Sh.10.
Features of the uninstrumented areas are to be initiated in process step 1.

PRINT DISTR.	ITEM	DWG. NO.	DESCRIPTION	G1 G2 G3			REMARKS	REV.						
				QUANTITY										
D	CR-1	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ON: .0 ± .01 .00 ± .005 .000 ± .005 FRACTIONS ± .002 ANGLES ± 10' ALL SURFACES <input checked="" type="checkbox"/>				CORNELL UNIVERSITY LEPP LABORATORY FOR ELEMENTARY PARTICLE PHYSICS CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853 LP1 Endplate 3_Endplate Only							
	CHECKED BY:		DRAWN BY:	TMK	DRAWN FOR:	DPP	DATE:	2/23/2011	SCALE:	D	DWG. NO.:	6080-171	REV.:	SH. NO. 19 OF 22

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APP.



DETAIL AK
SCALE 1 : 1
"OUTSIDE"



DETAIL AL
SCALE 1 : 1
"INSIDE"

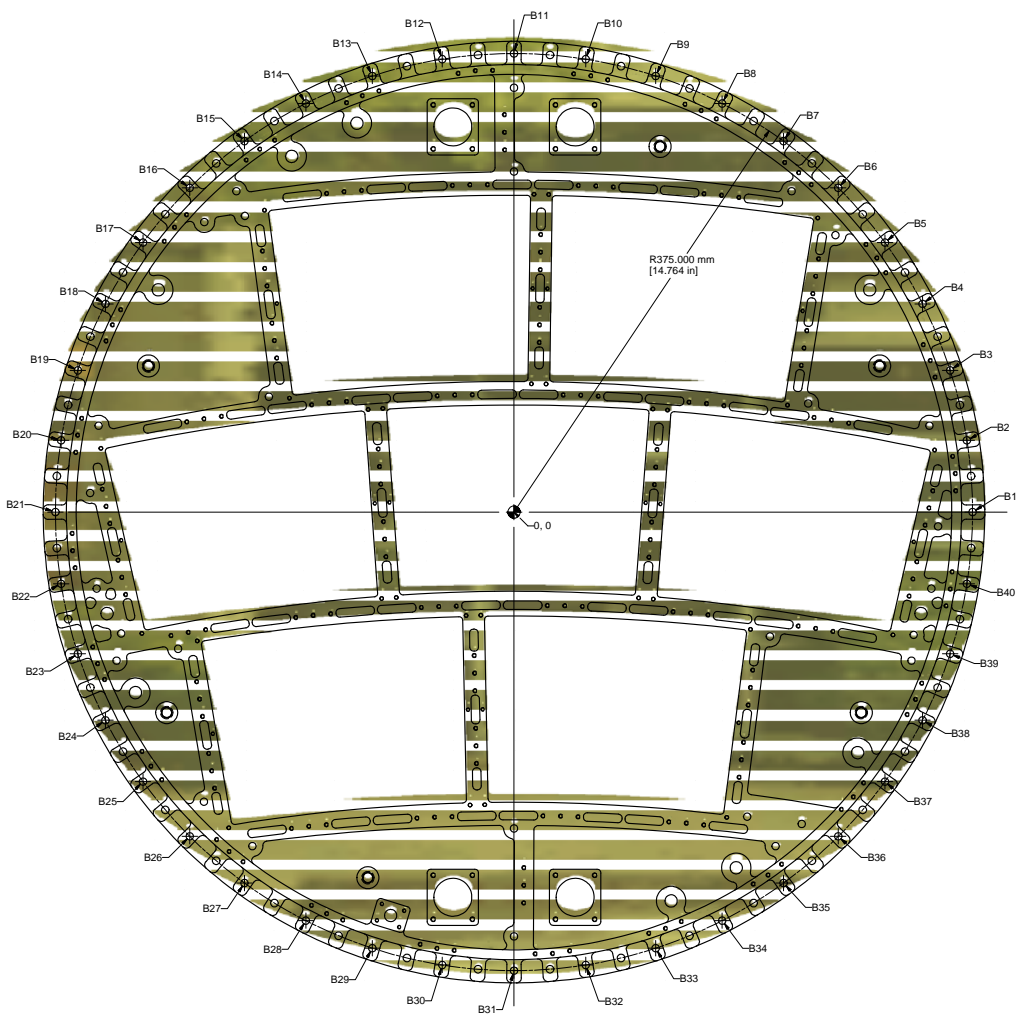
TO CREATE THE VIEWS ON THIS SHEET THE ENDPLATE WAS ROTATED AROUND IT'S AXIS SLIGHTLY SO THE MODULE OPENING WOULD BE SQUARED IN THE VIEW.

This sheet shows certification measurements within the Module Opening of dowel holes and surface features that are specified within the Module Opening on sheet 11.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	6080-171	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw					
CR-1		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .5 ± .01 .00 ± .005 FRACTIONS ± 1/100 ANGLES ± 15' ALL SURFACES ✓				CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853	
			LP1 Endplate 3_Endplate Only				
CHECKED BY:		DRAWN BY	DRAWN FOR	DATE	SCALE		
APPROVED BY:		TMK	DPP	2/23/2011	D	6080-171 SH. NO. 20 OF 22	

REVISIONS			
SYM.	ZONE	DESCRIPTION	DATE APP.

Hole Table in mm			
HOLE	XDIM (Alt)	YDIM (Alt)	DESCRIPTION
B1	375.000	0.000	Ø6.000 mm THRU
B2	370.383	58.663	Ø6.000 mm THRU
B3	356.646	115.881	Ø6.000 mm THRU
B4	334.127	170.246	Ø6.000 mm THRU
B5	303.381	220.419	Ø6.000 mm THRU
B6	265.165	265.165	Ø6.000 mm THRU
B7	220.419	303.381	Ø6.000 mm THRU
B8	170.246	334.127	Ø6.000 mm THRU
B9	115.881	356.646	Ø6.000 mm THRU
B10	58.663	370.383	Ø6.000 mm THRU
B11	0.000	375.000	Ø6.000 mm THRU
B12	-58.663	370.383	Ø6.000 mm THRU
B13	-115.881	356.646	Ø6.000 mm THRU
B14	-170.246	334.127	Ø6.000 mm THRU
B15	-220.419	303.381	Ø6.000 mm THRU
B16	-265.165	265.165	Ø6.000 mm THRU
B17	-303.381	220.419	Ø6.000 mm THRU
B18	-334.127	170.246	Ø6.000 mm THRU
B19	-356.646	115.881	Ø6.000 mm THRU
B20	-370.383	58.663	Ø6.000 mm THRU
B21	-375.000	0.000	Ø6.000 mm THRU
B22	-370.383	-58.663	Ø6.000 mm THRU
B23	-356.646	-115.881	Ø6.000 mm THRU
B24	-334.127	-170.246	Ø6.000 mm THRU
B25	-303.381	-220.419	Ø6.000 mm THRU
B26	-265.165	-265.165	Ø6.000 mm THRU
B27	-220.419	-303.381	Ø6.000 mm THRU
B28	-170.246	-334.127	Ø6.000 mm THRU
B29	-115.881	-356.646	Ø6.000 mm THRU
B30	-58.663	-370.383	Ø6.000 mm THRU
B31	0.000	-375.000	Ø6.000 mm THRU
B32	58.663	-370.383	Ø6.000 mm THRU
B33	115.881	-356.646	Ø6.000 mm THRU
B34	170.246	-334.127	Ø6.000 mm THRU
B35	220.419	-303.381	Ø6.000 mm THRU
B36	265.165	-265.165	Ø6.000 mm THRU
B37	303.381	-220.419	Ø6.000 mm THRU
B38	334.127	-170.246	Ø6.000 mm THRU
B39	356.646	-115.881	Ø6.000 mm THRU
B40	370.383	-58.663	Ø6.000 mm THRU
0, 0	0.000	0.000	-

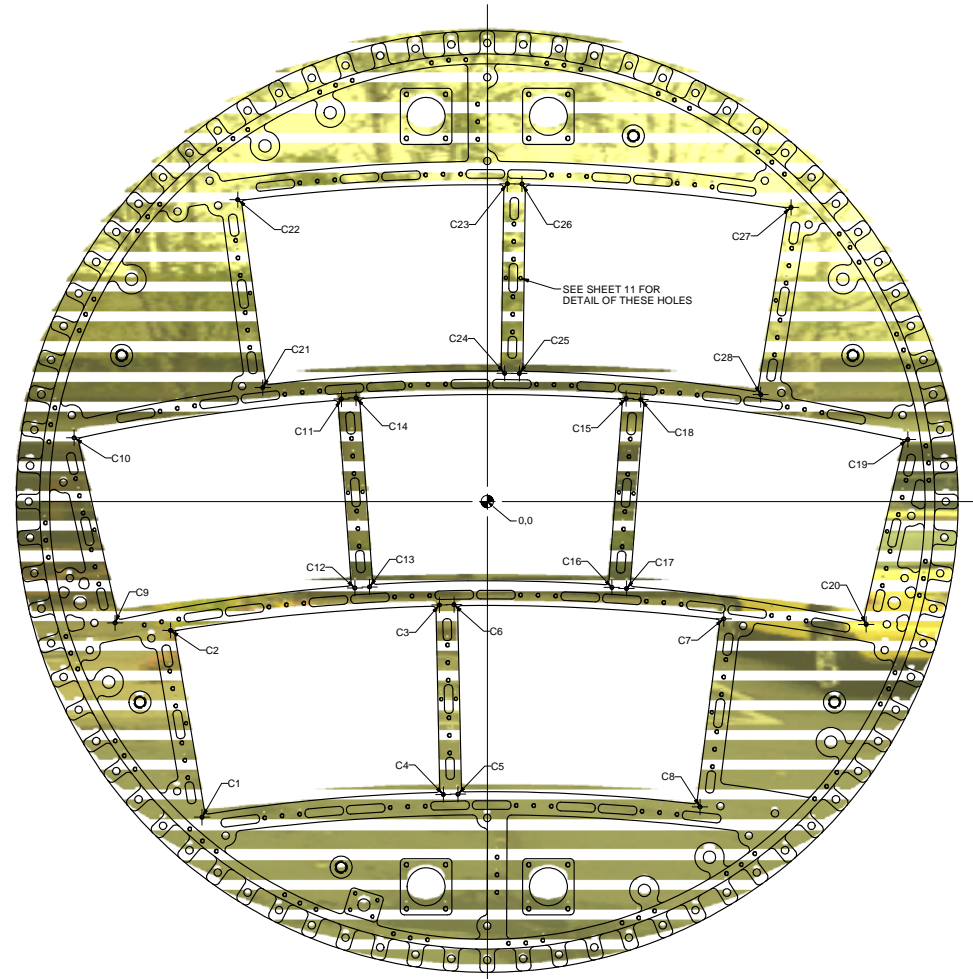


SCALE 1:2
"OUTSIDE"

This sheet shows certification measurements for dowel holes 'B' that are specified on sheet 4.

ITEM	DWG. NO.	DESCRIPTION	G1	G2	G3	REMARKS	REV.
			QUANTITY				
PRINT DISTR.	PLOT DATE: 3/29/2011 CAD FILE NAME: 6080-171.idw						
6080-171 REV. 21 01 22	CR-1	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES ON: .0 ± .01 .00 ± .005 FRACTIONS ± .002 ANGLES ± 15' ALL SURFACES ✓		 CORNELL UNIVERSITY Floyd R. Newman Laboratory Ithaca, NY 14853			
	DRAWN BY: TMK		DRAWN FOR: DPP		DATE: 2/23/2011	SCALE: D	6080-171 SH. NO. 21 OF 22

REVISIONS		
SYM.	ZONE	DESCRIPTION



SCALE 1:2
"OUTSIDE"

Hole Table in mm		
HOLE	XDIM (Alt)	YDIM (Alt) DESCRIPTION
C1	-233.246	-258.171 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C2	-259.043	-105.332 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C3	-39.158	-84.597 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C4	-35.930	-239.564 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C5	-23.932	-239.314 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C6	-27.161	-84.347 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C7	193.397	-95.906 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C8	173.988	-249.687 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C9	-304.366	-99.218 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C10	-337.829	52.128 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C11	-119.267	83.911 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C12	-108.238	-70.697 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C13	-96.268	-69.843 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C14	-107.298	84.765 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C15	113.562	84.329 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C16	101.923	-70.234 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C17	113.889	-71.135 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C18	125.529	83.428 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C19	343.963	50.783 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C20	308.904	-100.430 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C21	-183.618	93.220 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C22	-204.066	246.867 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C23	16.409	259.915 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C24	14.227	104.930 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C25	26.226	104.761 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C26	28.408	259.747 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C27	248.428	240.497 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$
C28	223.663	87.487 $\varnothing 2.900 \text{ mm } \nabla 12.000 \text{ mm}$ $\nabla \varnothing 3.000 \text{ mm } \nabla 8.000 \text{ mm}$

This sheet shows certification measurements of GLOBAL locations of dowel holes that are defined within the Module Opening on sheet 11.

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

PRINT DATE: 3/29/2011
CAD FILE NAME: 6080-171.idw

6080-171

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON:
.01 ± .01
.005 ± .005
FRACTIONS ± .002
ANGLES ± 15'
ALL SURFACES FINISHED

CORNELL UNIVERSITY
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS
LEPP
FLOYD R. NEWMAN LABORATORY
ITHACA, NY 14853

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DRAWN FOR: DPP
DATE: 2/23/2011
SCALE: D
6080-171
SH. NO. 22 OF 22