NOTES:
1. IDENTIFY PARTS PER TPS 4-1, DO NOT TAG PARTS.
2. ALL ARC LENGTH DIMENSIONS TAKEN ALONG TOOLING SURFACE.
3. SURFACE FINISH Ra 125 OR BETTER FOR ALL MACHINE SURFACES.
4. BREAK SHARP CORNERS AND EDGES .010-.030.
5. ALL DIMENSIONS ARE TAKEN AT INTERSECTION OF RADIUS TANGENCIES.

6 OPTIONAL TO SPLICE CORE IN SPECIFIED LOCATIONS. USE FM410 ADHESIVE TO BOND CORE PARTS IN SPLICE AREA.

7. FABRICATE FIBERGLASS PARTS PER TPS 2-522, TYPE 1, GRADE b, COMPOSITION 2, FORM (b), CATEGORY (3).

8 OPTIONAL: IF MATERIAL ROHACELL 71S-2.500 AND 71S-3.000 ARE NOT ALVALIBLE, REPLACE THEM WITH ROHACELL 71S-2.360 AND BONDED TO ROHACELL 71S-.750 WITH FM410 ADHESIVE.

PARTS STATUS

REVISIONS				
EFF	REV	DESCRIPTION	DATE	APPROVED
	A	INC ECO C101025		
	B	INC ECO C101059. REWROTE FLAGE NOTE 6 TO MATCH ECO.		
	C	INC ECO C101071. REWROTE FLAGE NOTE 6 AND 7 TO MATCH ECO. CHANGED NOTE 8 TO READ "IF MATERIAL". ADDED DIMENSIONS TO VIEW AG-AG. REMOVED DUAL DIMENSIONS FOR CLARITY.	11/16/06	GL, AB

CODE FEE PDM REV LEVEL CHART	
DASH NUMBER	REV LEVEL
-001	2.X
-003	2.X
-005	2.X
-007	2.X
-009	2.X
-011	2.X
-013	2.X
-015	2.X
-023	2.X
-025	2.X
-027	2.X
-033	2.X
-034	2.X
-035	3.X
-036	2.X
-037	2.X
-038	2.X
-039	2.X
-041	2.X
-045	3.X
-046	2.X
-047	2.X
-048	2.X
-	-
-054	2.X
-057	2.X
-058	2.X
-059	2.X
-061	2.X
-062	2.X
-063	2.X
-070	2.X
-071	2.X
-073	2.X
-075	2.X
-076	2.X
-078	2.X
-080	2.X
-081	2.X
-082	2.X
-083	2.X
-085	2.X
-086	2.X
-087	2.X
-088	2.X
-089	2.X
-091	2.X
-093	2.X
-095	2.X
-097	2.X
-101	2.X
-103	2.X
-105	2.X
-107	2.X
-109	2.X
-111	2.X
-115	2.X
-117	2.X
-119	2.X
-121	2.X
-123	2.X
-125	2.X
-127	2.X
-129	2.X

REVISION STATUS OF SHEETS										
REV	C									
SHEET	31									
REV	C	C	C	C	C	C	C	C	C	C
SHEET	21	22	23	24	25	26	27	28	29	30
REV	C	C	C	C	C	C	C	C	C	C
SHEET	11	12	13	14	15	16	17	18	19	20
REV	C	C	C	C	C	C	C	C	C	C
SHEET	1	2	3	4	5	6	7	8	9	10

UNLESS OTHERWISE SPECIFIED
1. ALL DIMENSIONS IN INCHES AND INCLUDE APPLIED FINISH.
2. TOLERANCES: 2 PLACE DECIMALS ±.03, FRACTIONS ±1/16
   3 PLACE DECIMALS ±.010, ANGLES ±1/2°
   HOLE DIAMETERS PER G6016.00.98
   REPETITIVE FEATURE IS NON-CUMULATIVE
3. FABRICATION PRACTICES PER PR-W0006-000.
4. PRACTICES AND STANDARDS PER G6016.00.98.
5. ALL DIMENSIONS REFERENCE [mm].
6. ALL NON-METALLIC MATERIALS (INCLUDING FINISHES AND DECORATIVE SURFACES) AND ELECTRICAL WIRE/CABLE WHEN TESTED PER FAR PART 25, APP. F, SHALL MEET THE CRITERIA OF FARS PART 25.853, AMDT. 25-83 AND 25.869, AMDT. 25-72.

DASH	NEXT ASSEMBLY	USED ON	NEXT ASSY	FINAL ASSY
APPLICATION			QTY REQD	

SEE SEPARATE PARTS LIST FOR PARTS, APPLICATION AND PARTS STATUS PL96131518

CONTRACT NUMBER		
USRA-8500-02		
APVD	T RODGERS	04-09-27
ENGR	D GILLESPIE	04-09-27
ENGR	A BELOUS	04-09-27
CHECK	M GREEN	04-09-27
DRAWN	G. LANDFRIED	04-09-27
STRESS	J BALTZ	04-09-27
ADVMFG	J BRODINE	04-09-27
DSGNR	A BELOUS	04-09-27
SEE CODE FEE RELEASE MEMO RELXXXX		

L3 communications Integrated Systems
P.O. BOX 154580
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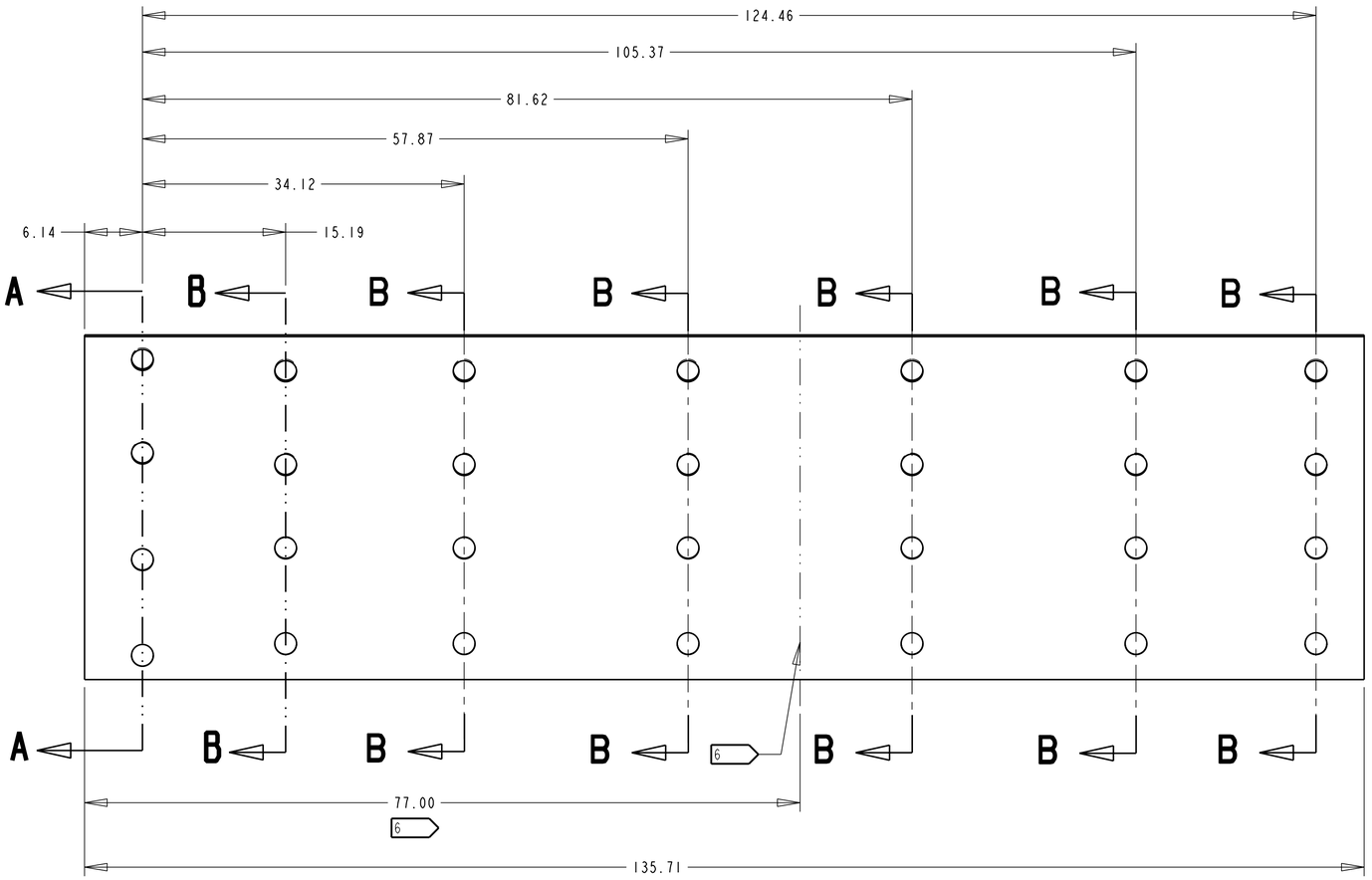
DWG TITLE
DETAILS-PERIMETER PANELS

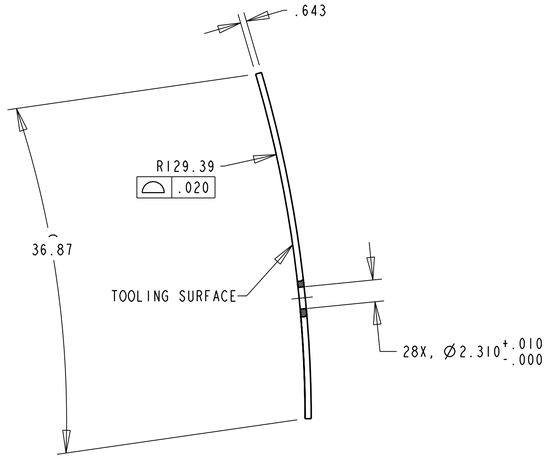
SIZE	CAGE CODE	DWG NO.
D	0GCL4	96131518
SCALE NOTED	Pro/ENGINEER	SHEET 1 OF 31

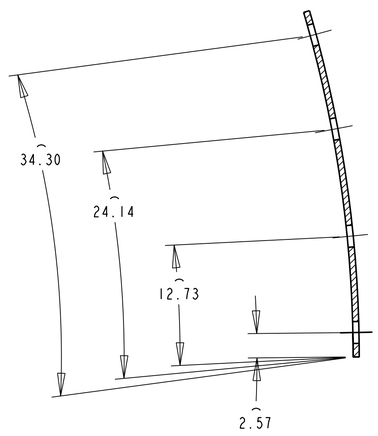
PRODUCED FOR USRA UNDER NAS2-97001 FOR THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION STRATOSPHERIC OBSERVATORY FOR INFRARED ASTRONOMY PROJECT AMES RESEARCH CENTER

C89D30

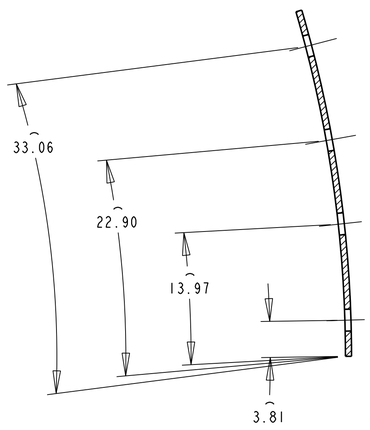
KEY CODE: 1







SECTION **A-A**



SECTION **B-B**

-001 CORE
SCALE 1/8

L3 communications Integrated Systems
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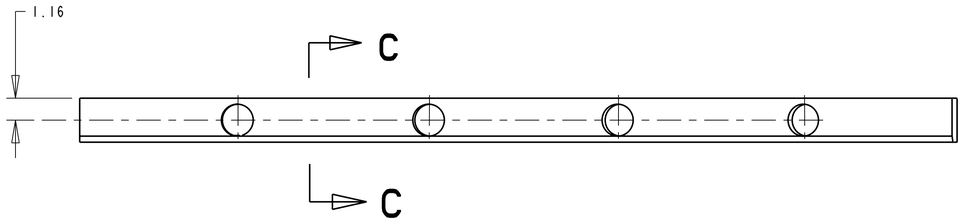
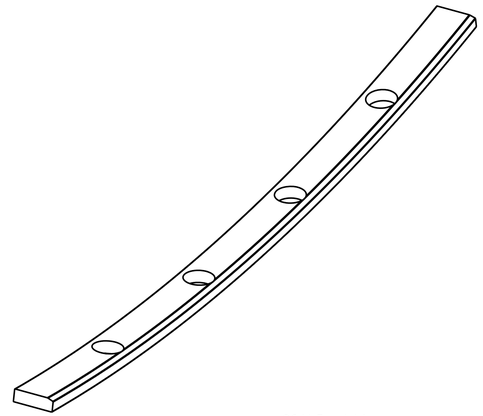
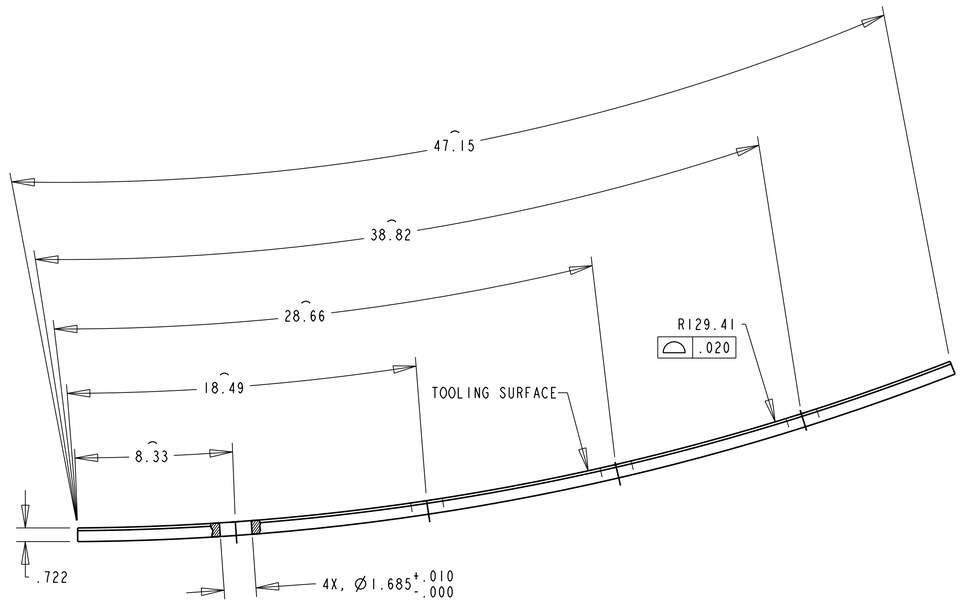
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 2	

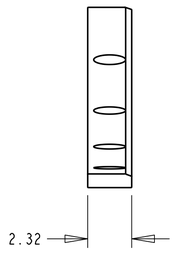
C890C31

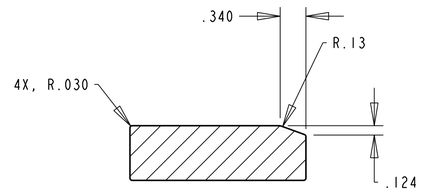




SCALE 1/4







SECTION **C-C**
(ROTATED 90° CCW)
SCALE 1/1

-003 CORE
SCALE 1/4

L3 communications Integrated Systems
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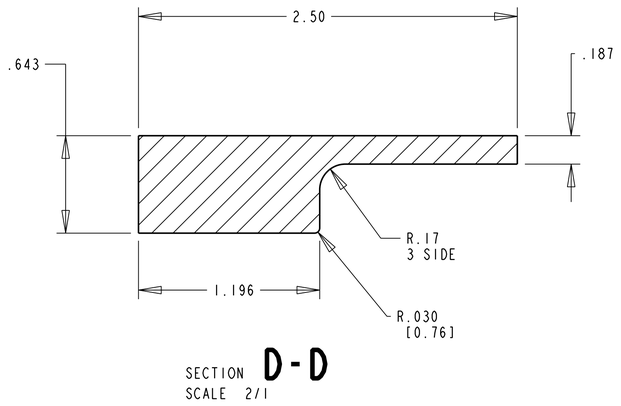
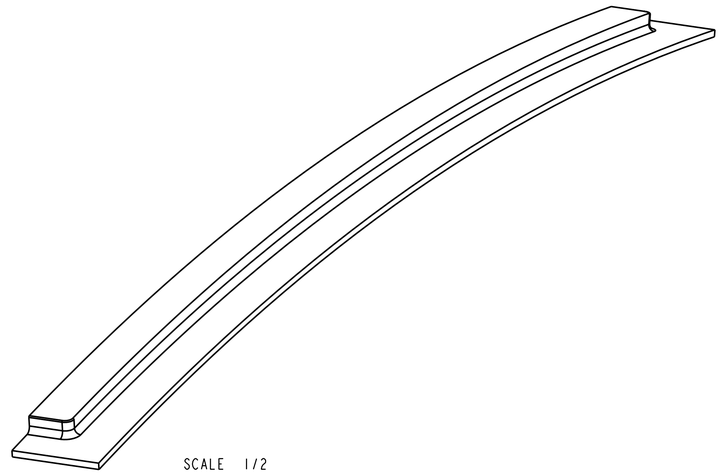
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 3	

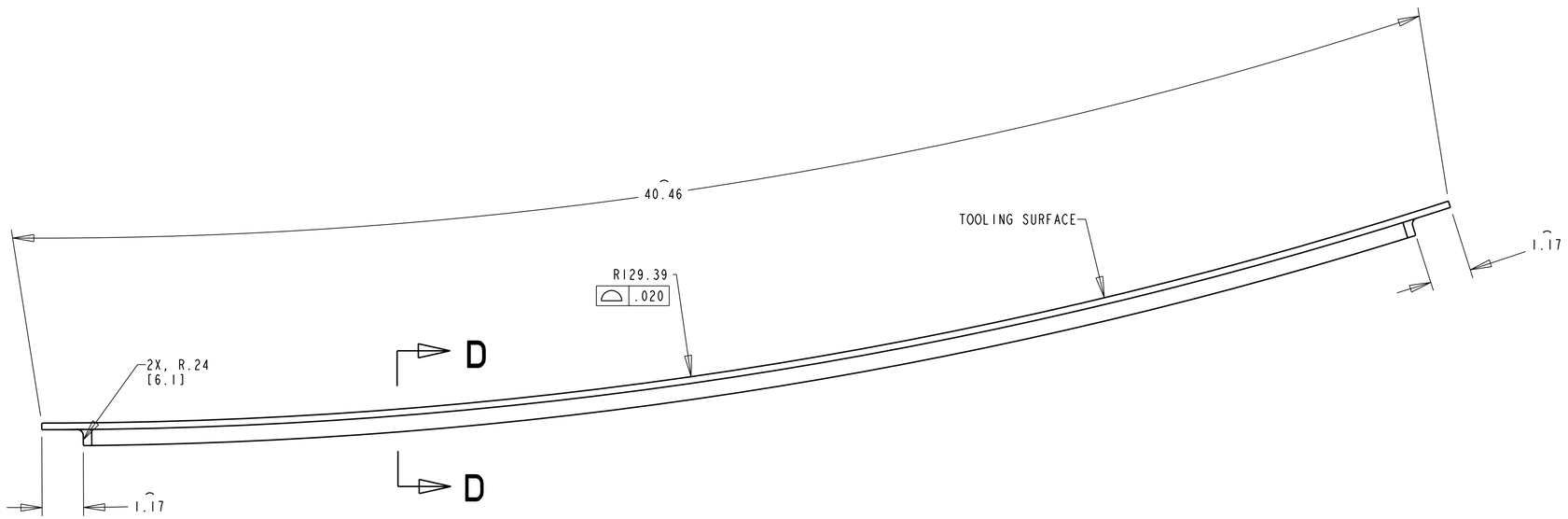
C89DC31



SECTION **D-D**
SCALE 2/1



SCALE 1/2



-005 CORE 8

SCALE 1/2

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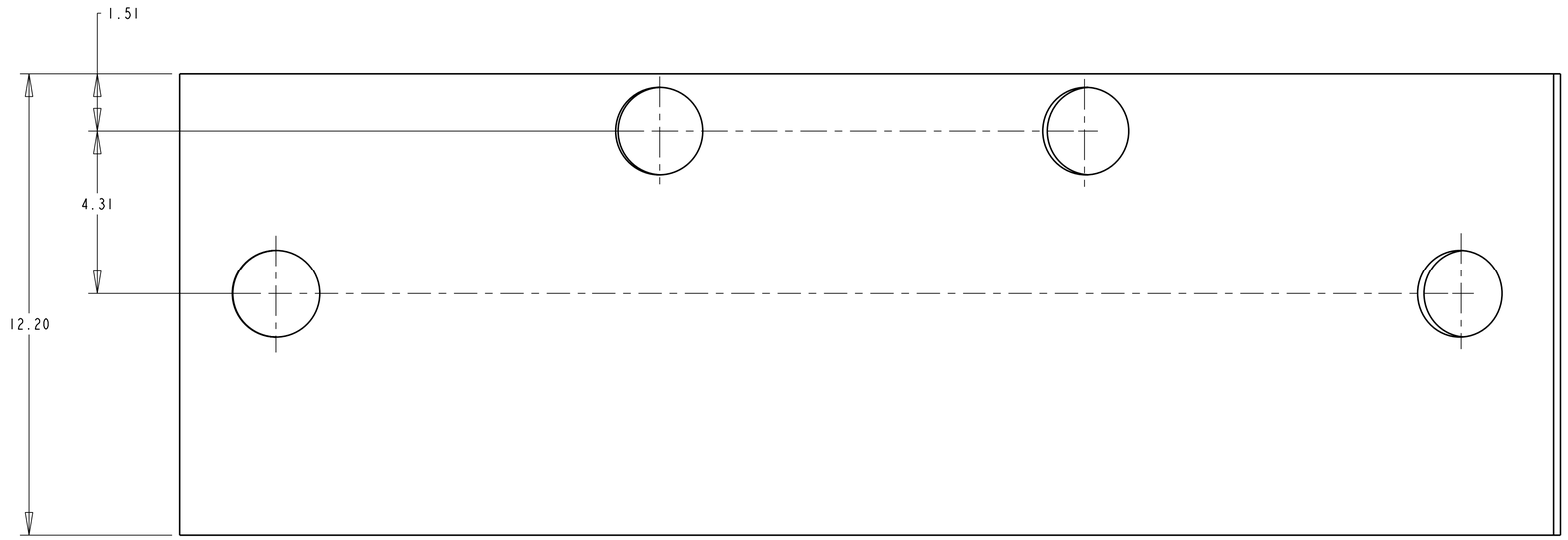
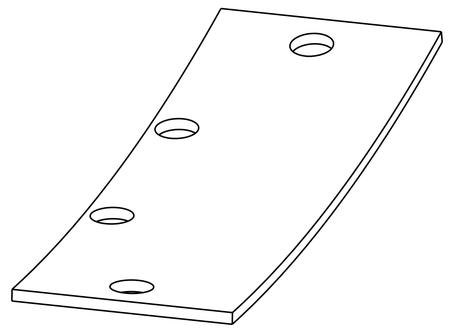
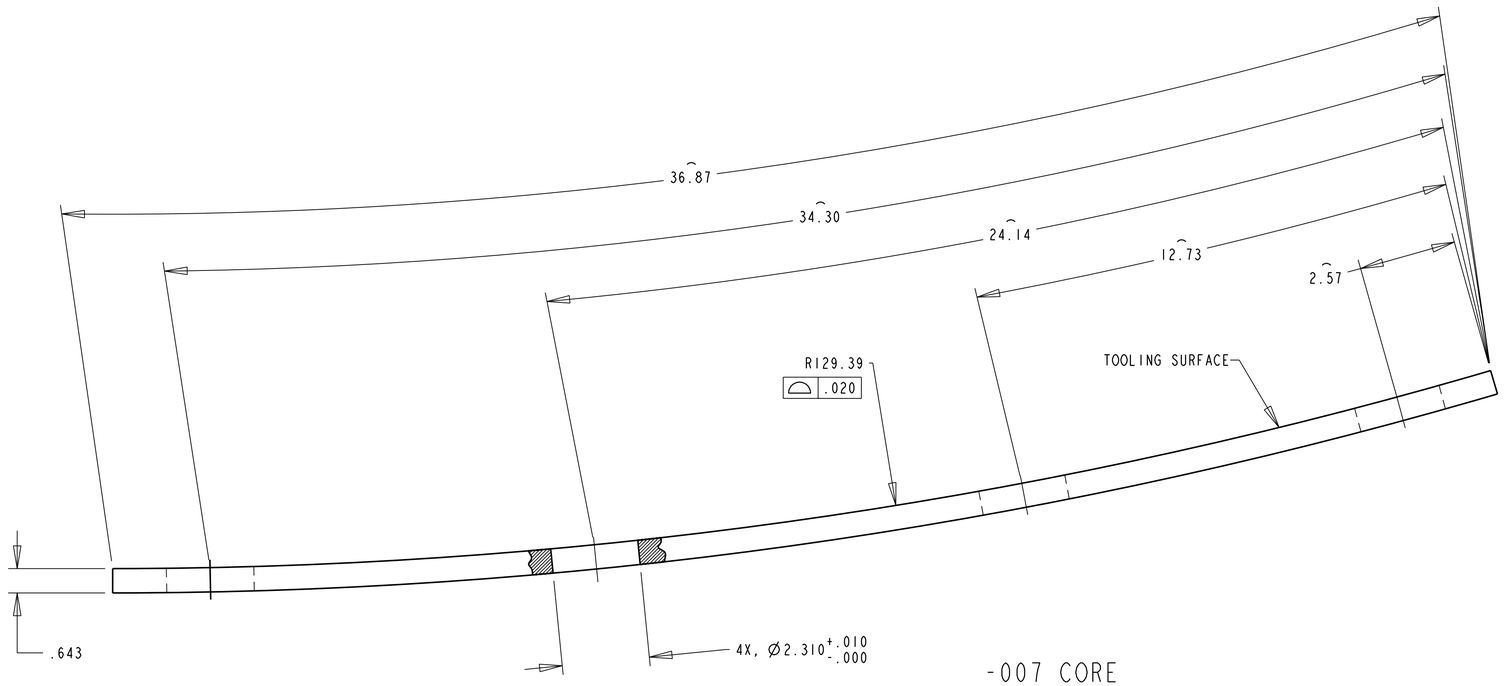
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 4	

C890C31





SCALE 1/4



-007 CORE

SCALE 1/2

L3 communications Integrated Systems
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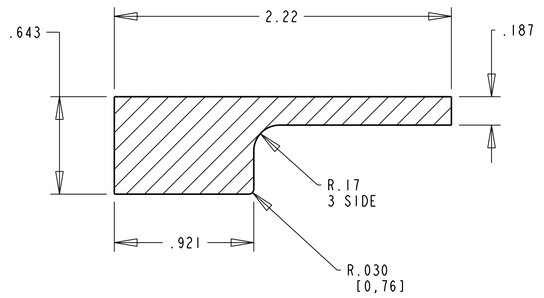
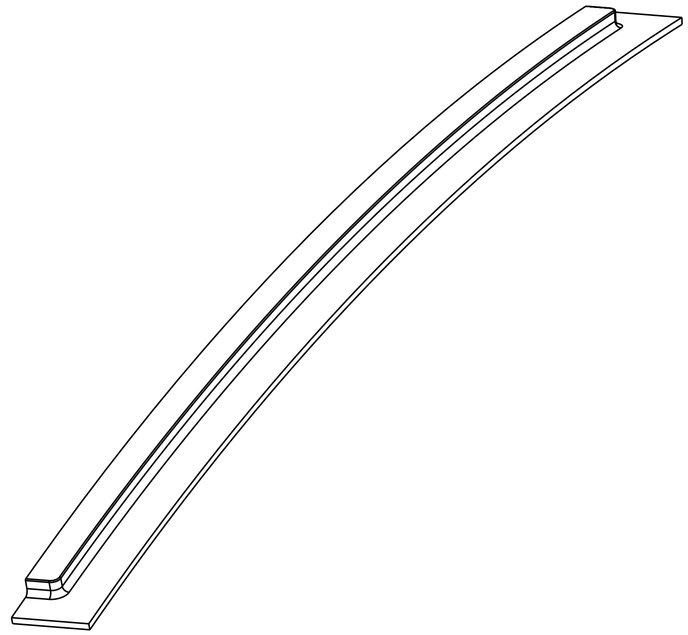
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 5	

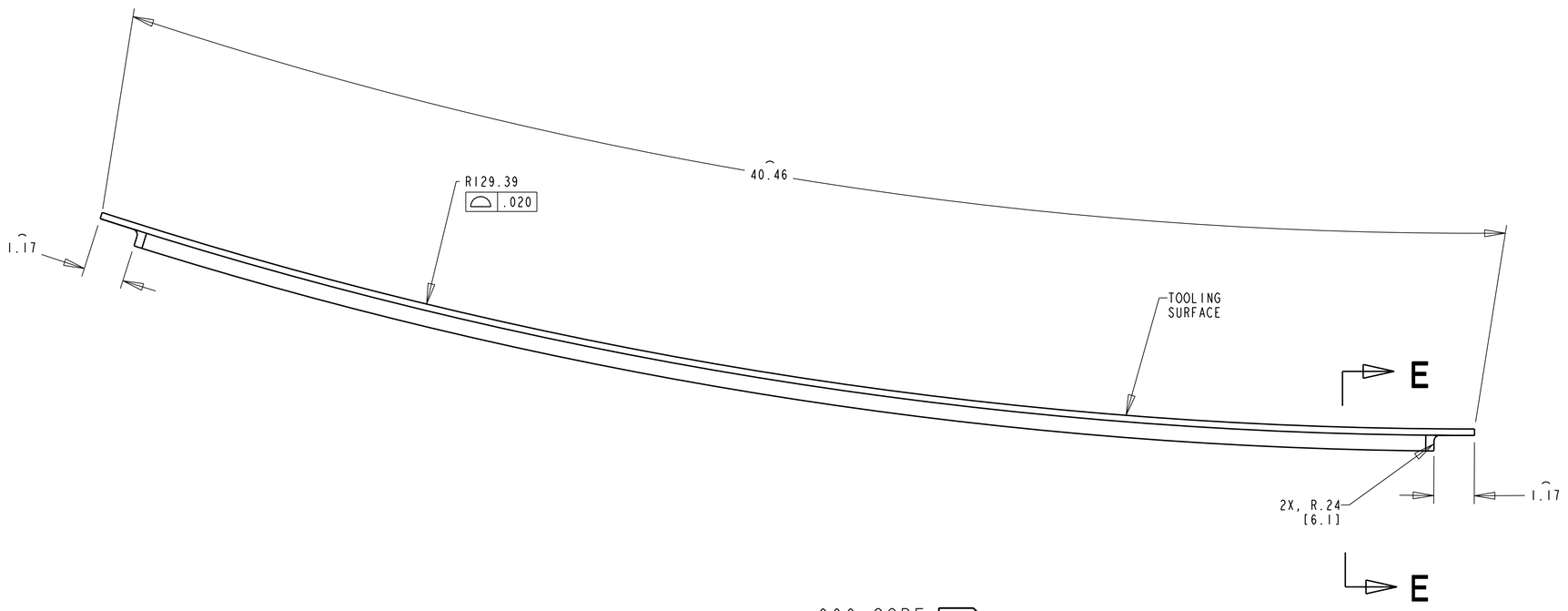
C89DC31



SECTION **E-E**
SCALE 2/1



SCALE 1/2



-009 CORE 8

SCALE 1/2

L3 communications Integrated Systems
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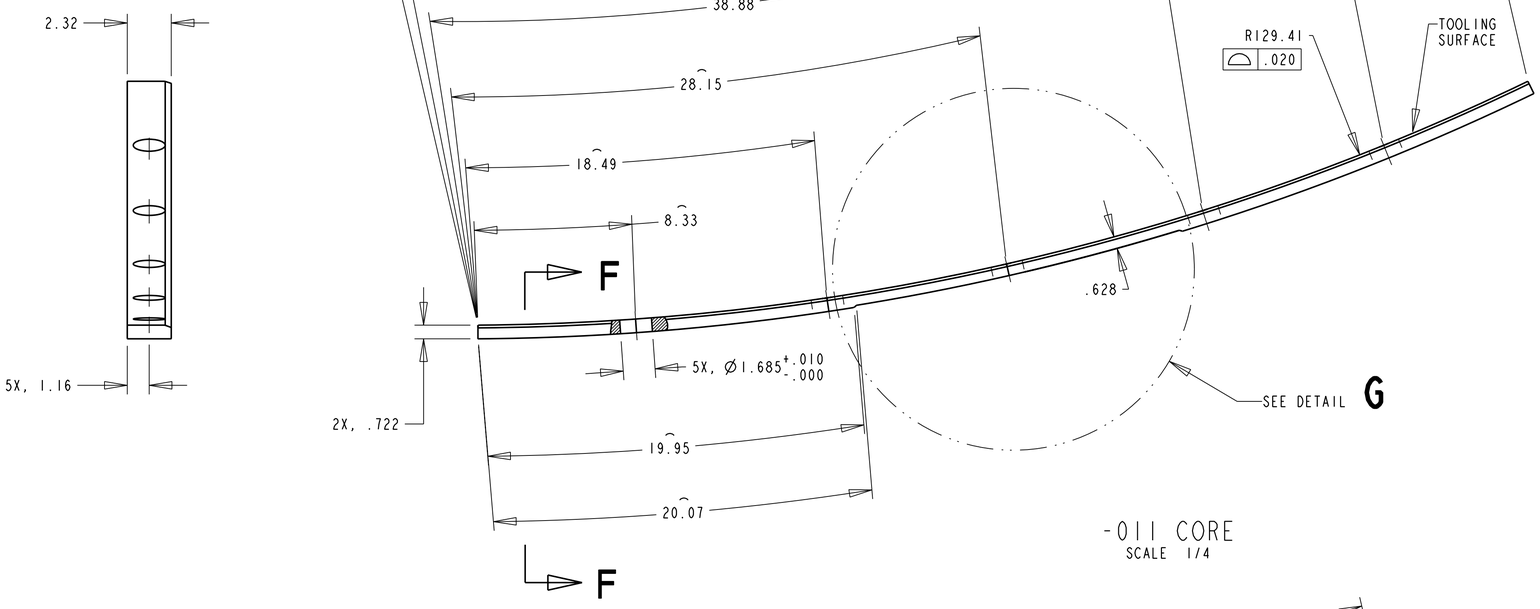
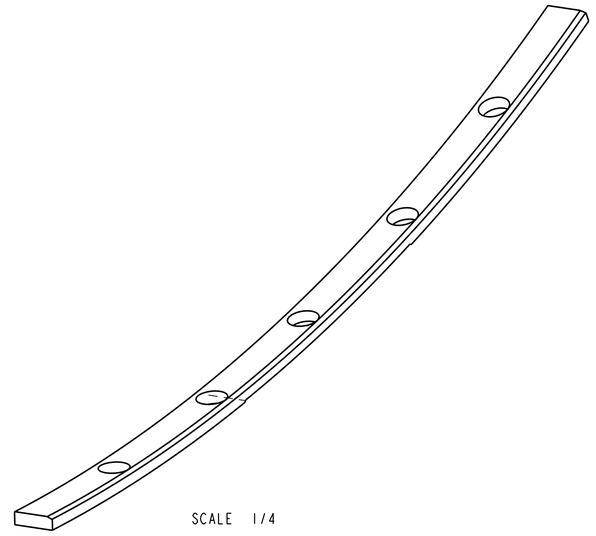
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 6	

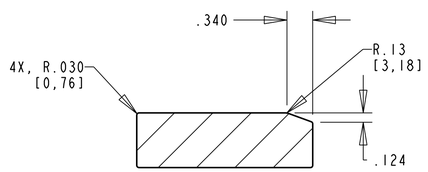
C89DC31



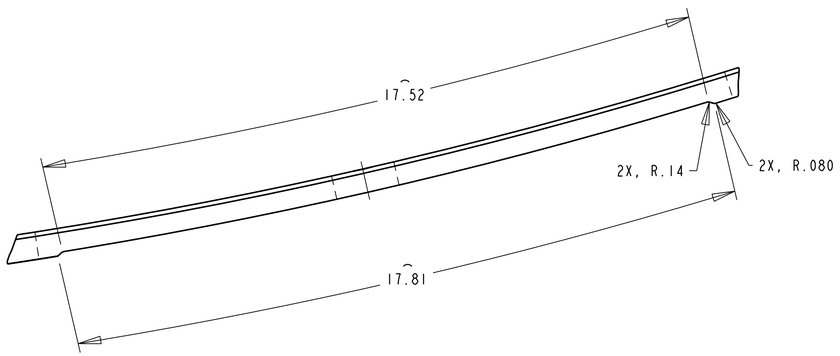
-011 CORE
SCALE 1/4



SCALE 1/4



SECTION **F - F**
SCALE 1/1



DETAIL **G**
SCALE 1/2

L3 communications Integrated Systems
P.O. BOX 154580
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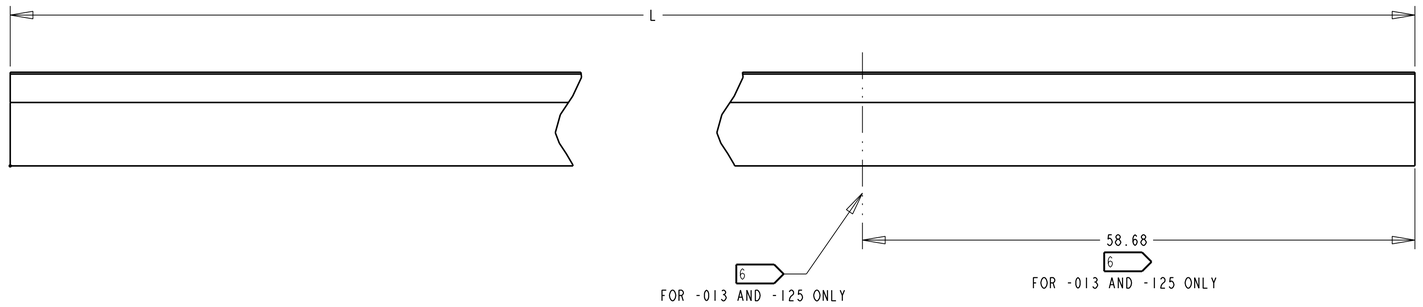
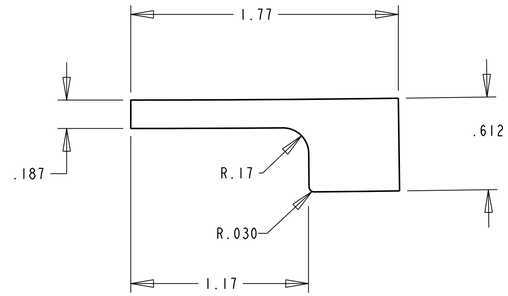
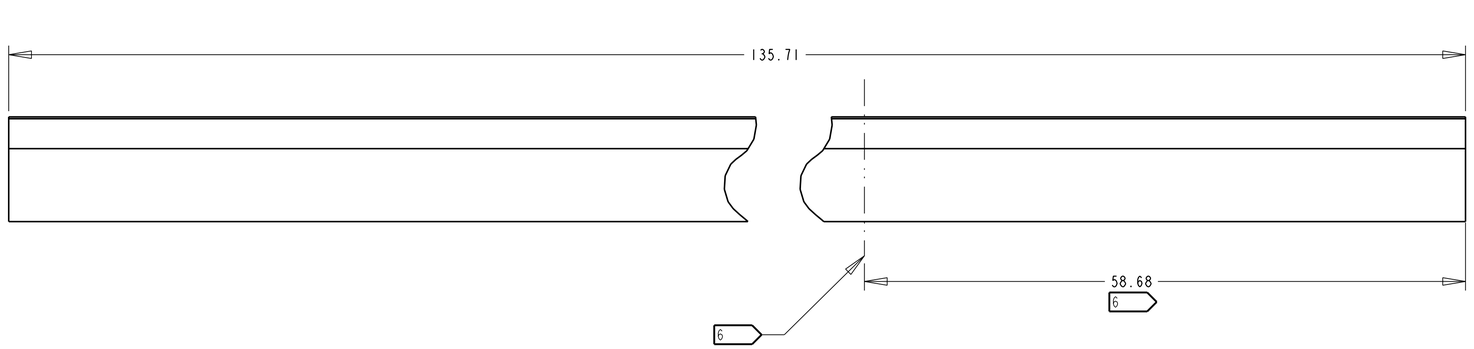
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 7	

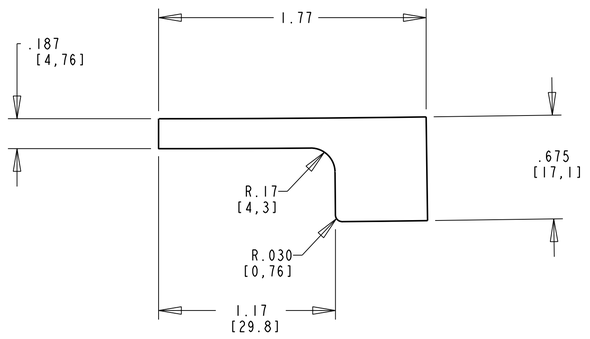
C89DC31





PART NUMBER	DESCRIPTION	L, IN
-013	CORE	135.71
-123	CORE	16.27
-125	CORE	105.12





-023 CORE
SCALE 2/1

L3 communications Integrated Systems
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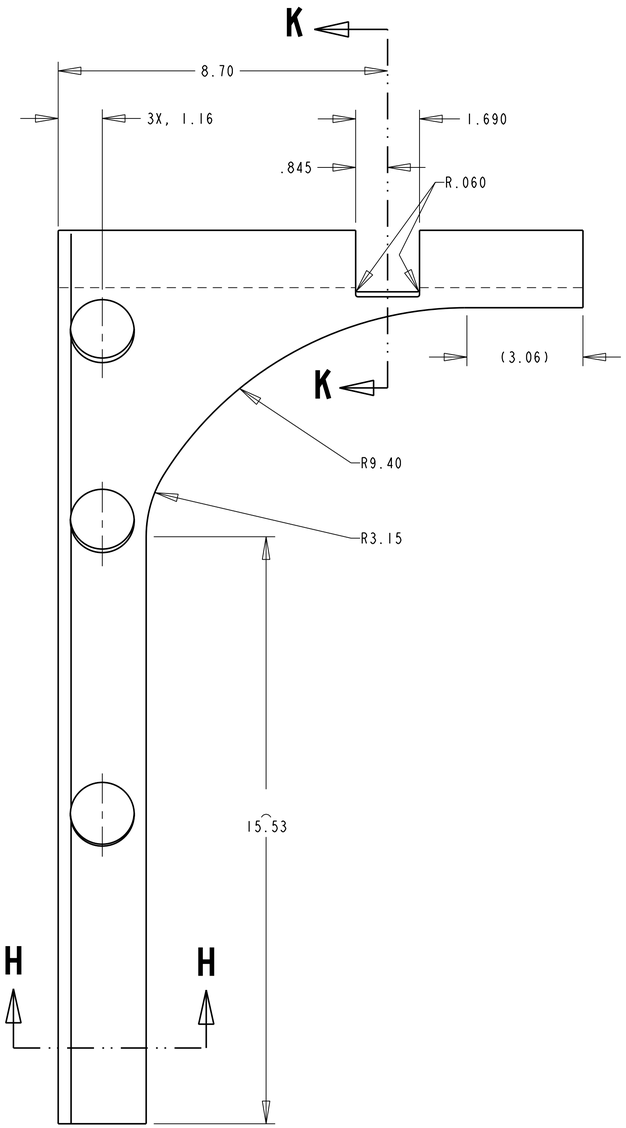
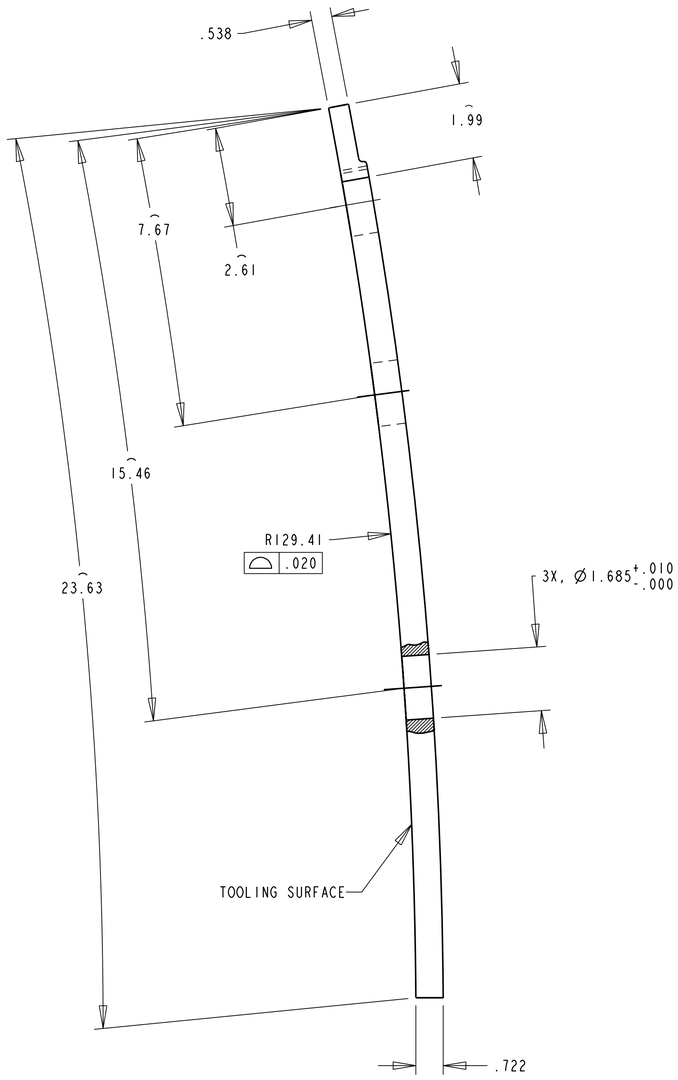
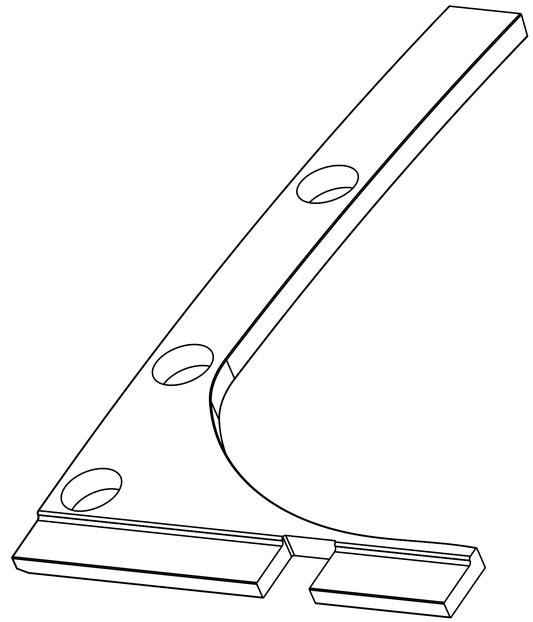
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 8	

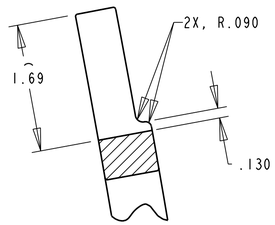
C89DC31



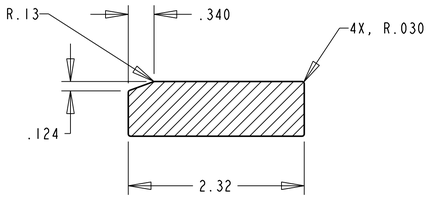




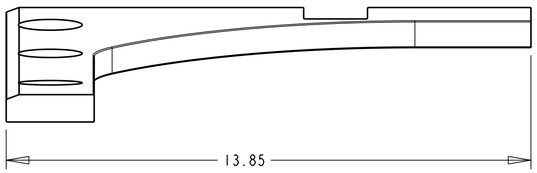
SCALE 1/2



SECTION **K-K**
SCALE 1/1



SECTION **H-H**
SCALE 1/1

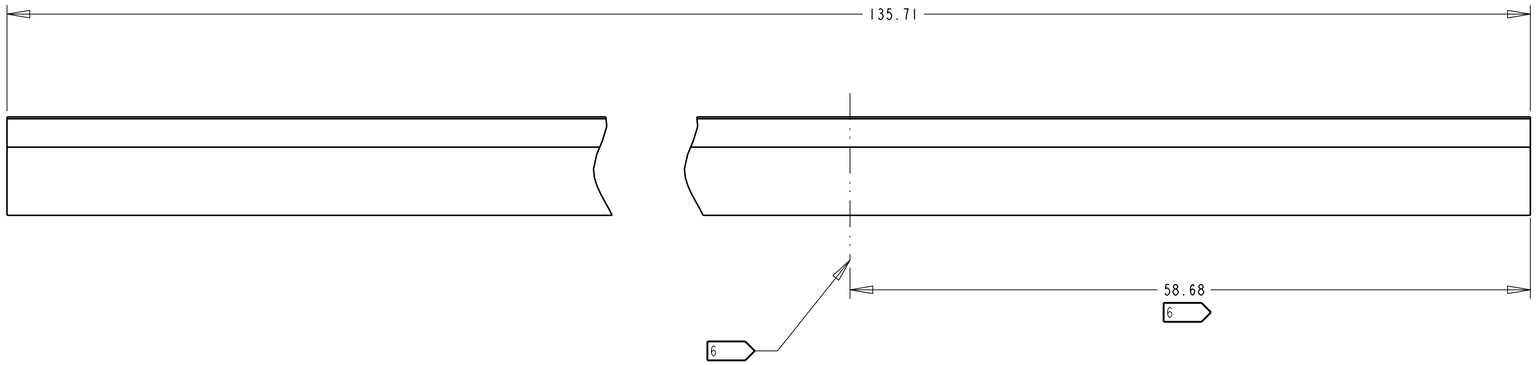


-015 CORE
SCALE 1/2

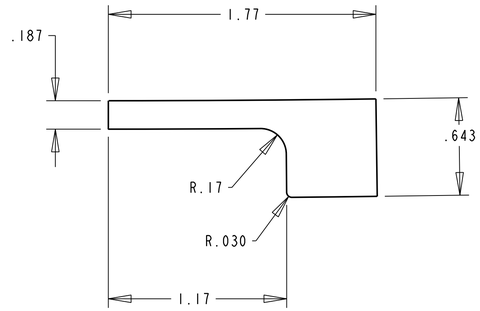
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

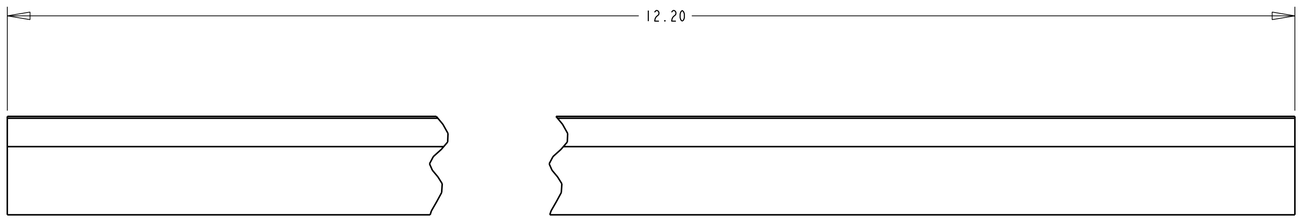
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 9	

C89DC31

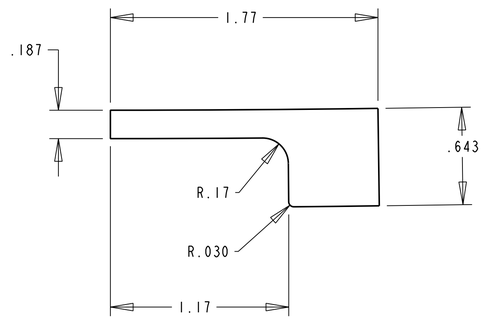


-025 CORE
SCALE 2/1





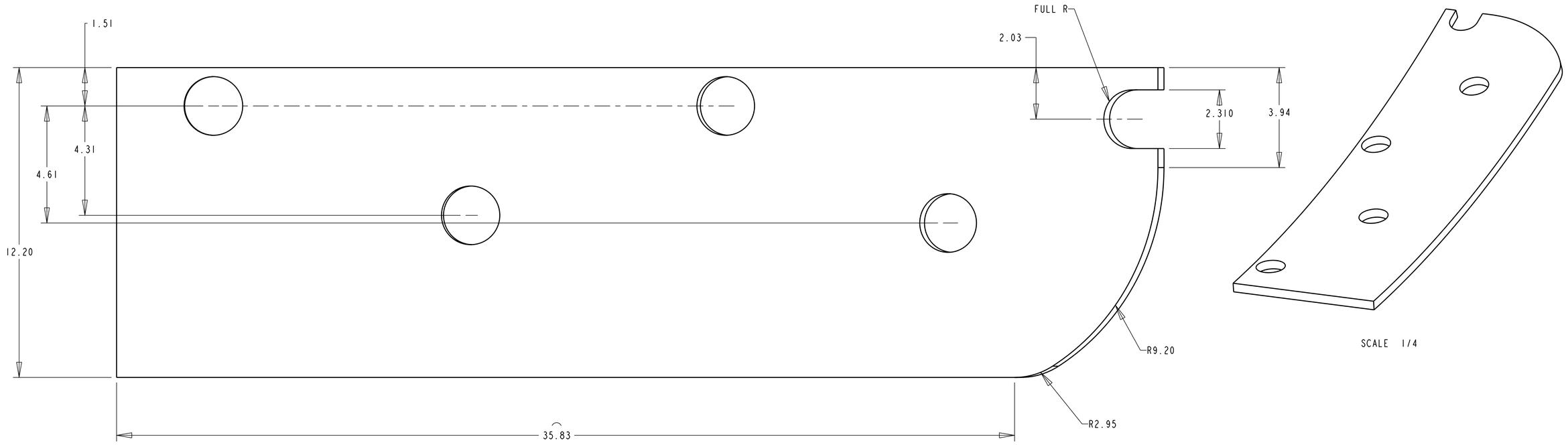
-027 CORE
SCALE 2/1



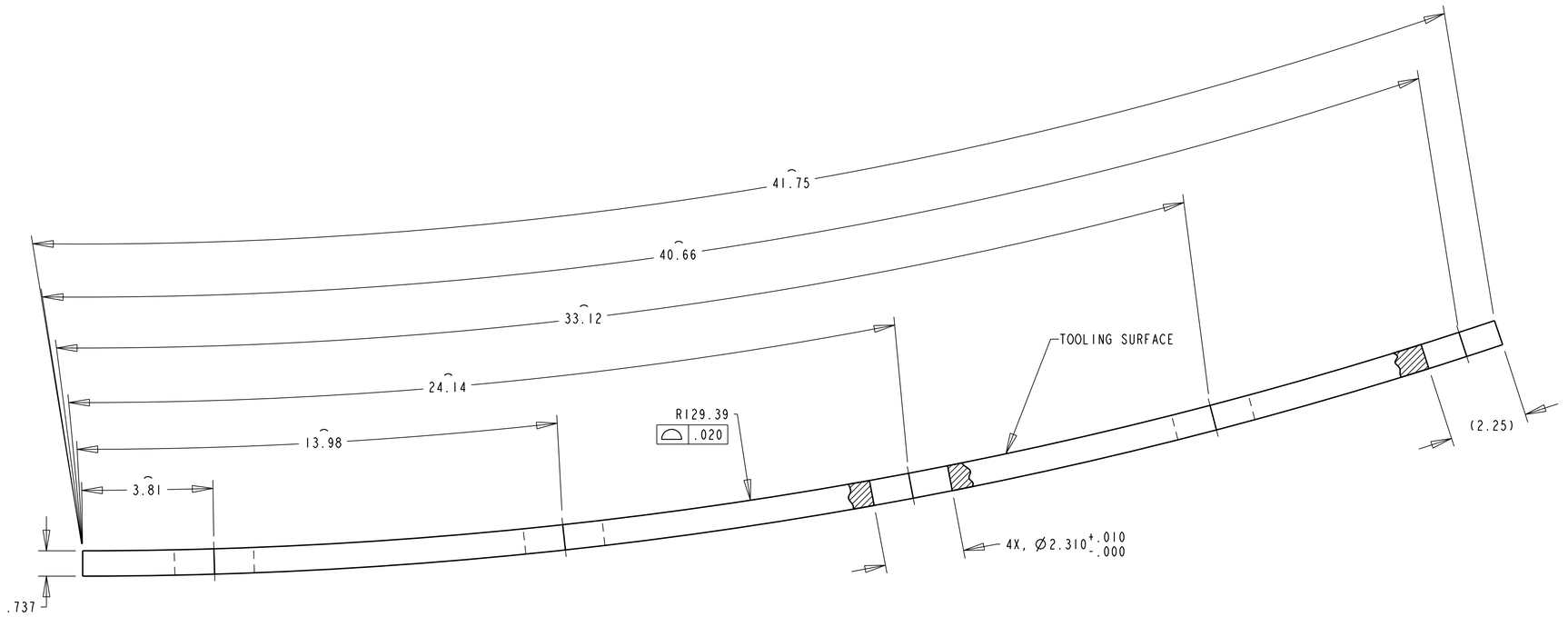
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 10	

C89DC31



SCALE 1/4



-033 CORE (SHOWN)
-034 CORE (OPPOSITE)

SCALE 1/2

L3 communications Integrated Systems
P.O. BOX 154580
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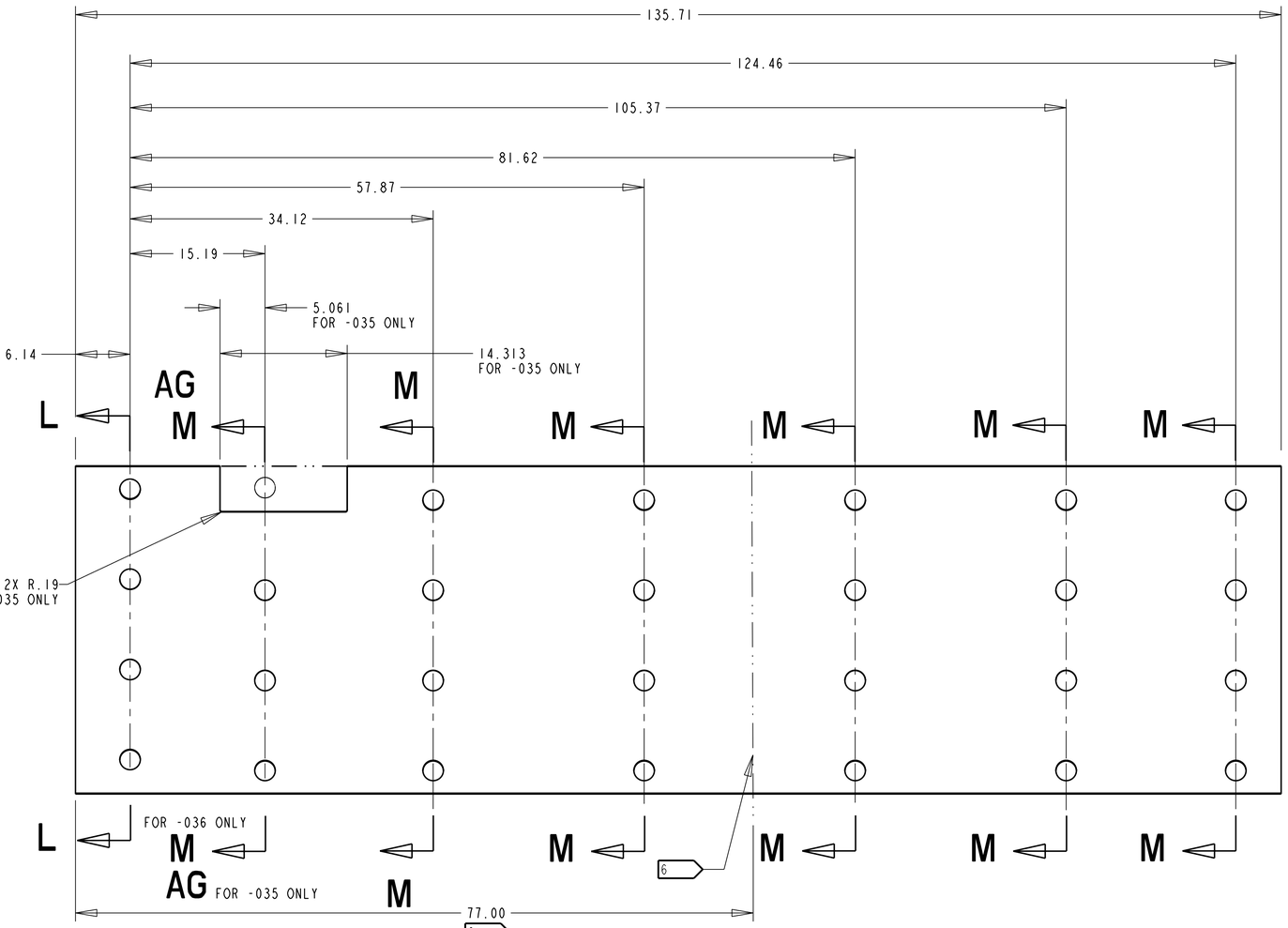
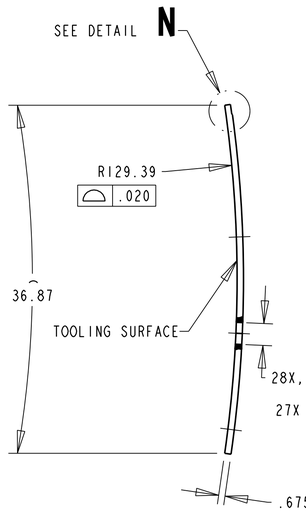
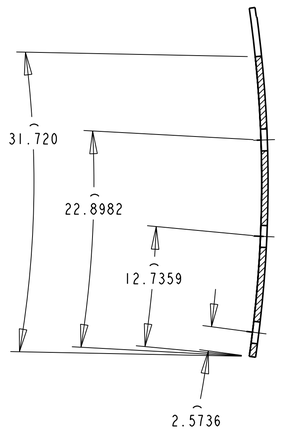
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 11	

C89DC31

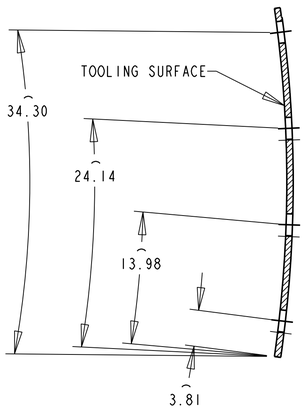


-035 CORE (SHOWN)
-036 CORE (OPPOSITE)
SCALE 1/8

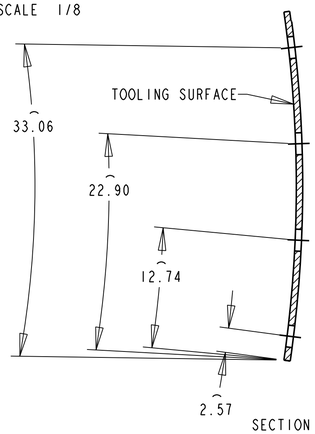




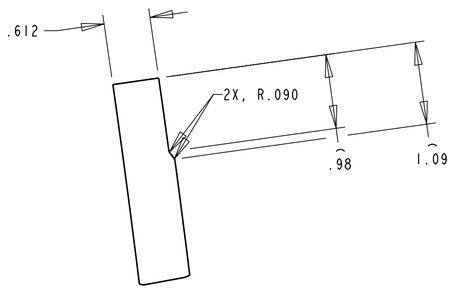
SECTION **AG-AG**
FOR -035 ONLY
SCALE 1/8



SECTION **L-L** -035 CORE (SHOWN)
-036 CORE (OPPOSITE)



SECTION **M-M**
-035 CORE (SHOWN)
-036 CORE (OPPOSITE)

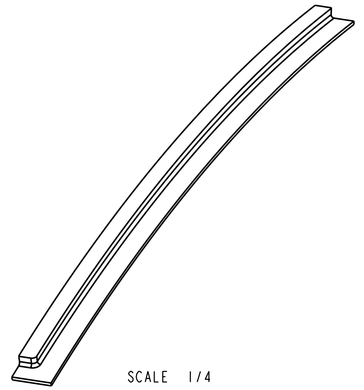


DETAIL **N**
SCALE 1/1

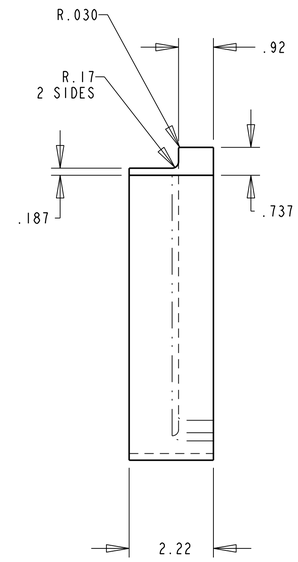
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

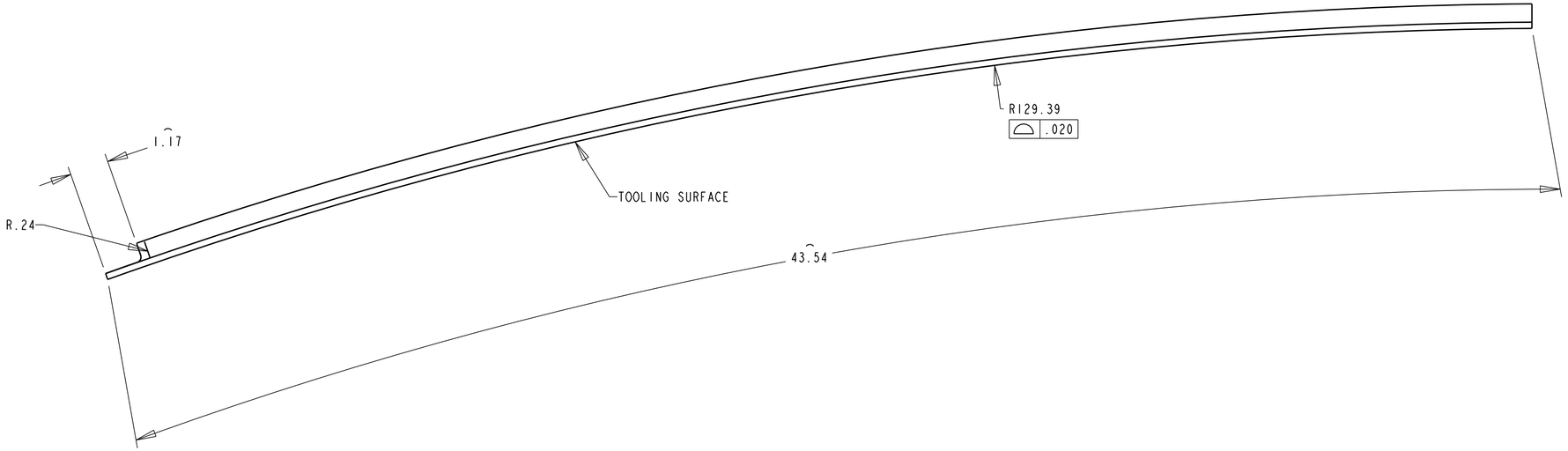
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 12	

C89DC31



SCALE 1/4

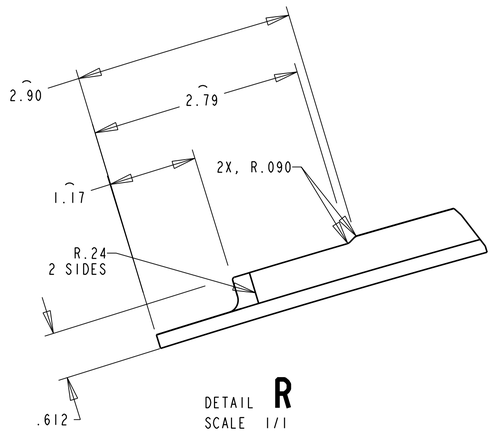




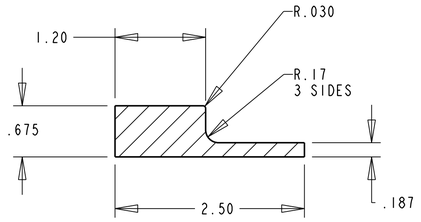
-037 CORE (SHOWN) 8
-038 CORE (OPPOSITE) 8
SCALE 1/2

L3 communications Integrated Systems		P.O. BOX 154580 WACO, TEXAS 76715-4580		
SIZE D	CAGE CODE 0GCL4	DWG NO. 96131518		REV C
SCALE NOTED		Pro/ENGINEER	SHEET 13	

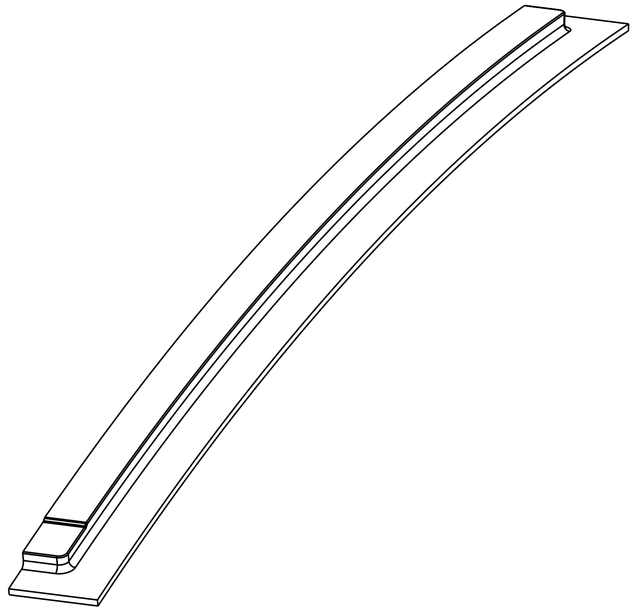
C89DC31



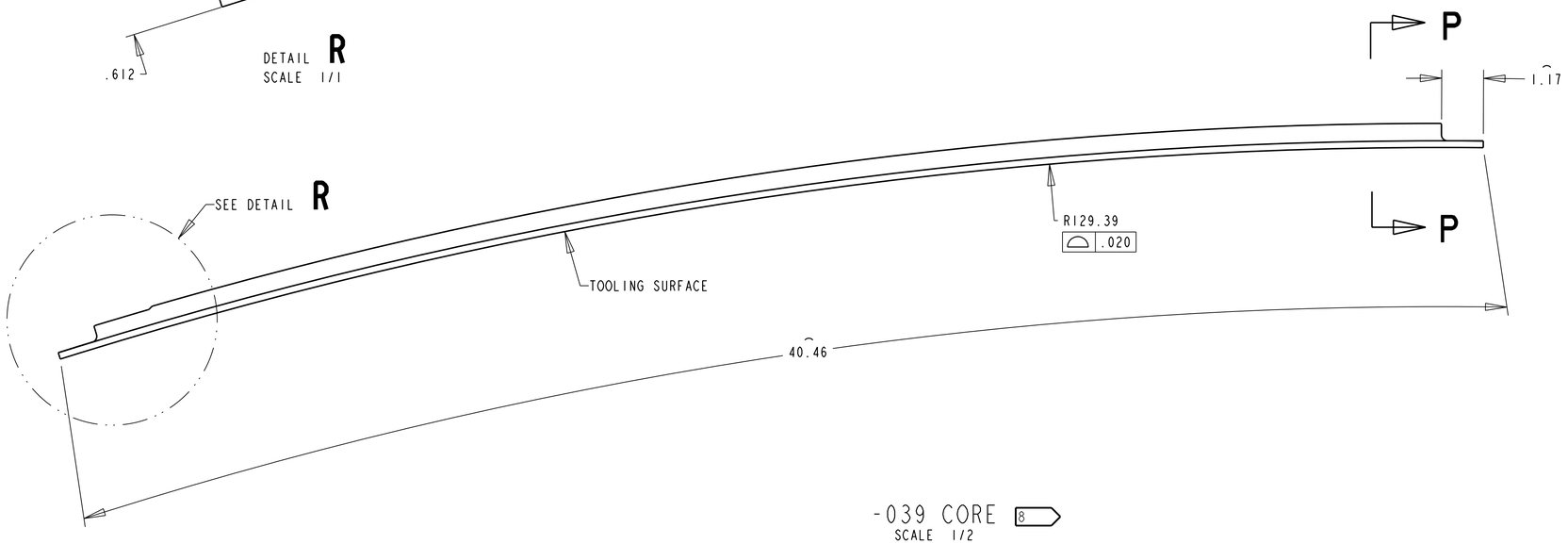
DETAIL **R**
SCALE 1/1



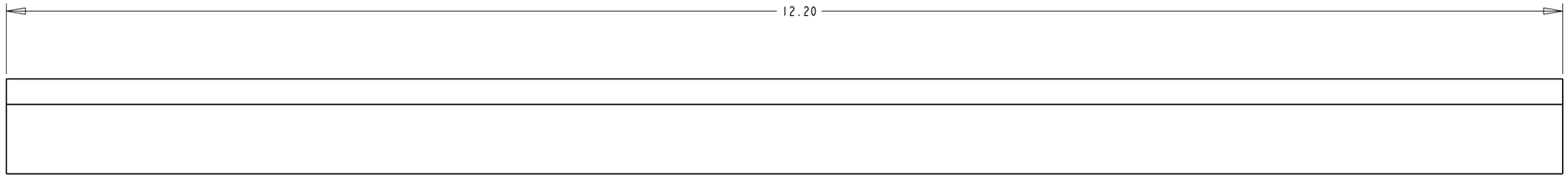
SECTION **P-P**
SCALE 1/1

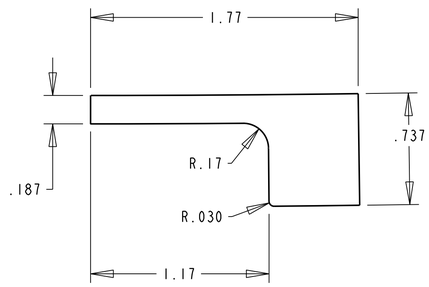


SCALE 1/2



-039 CORE 8
SCALE 1/2



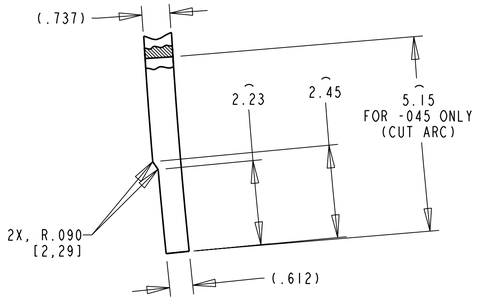


-041 CORE 8
SCALE 2/1

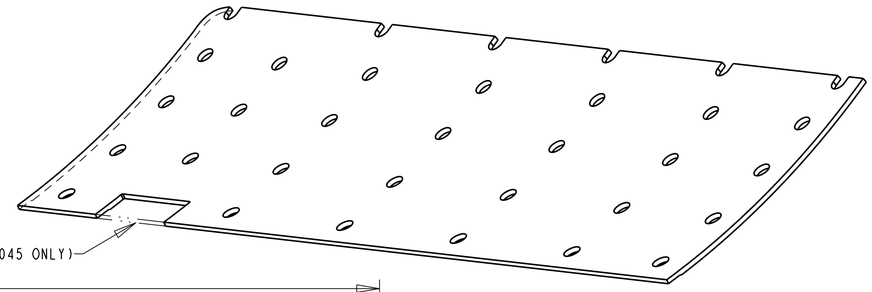
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 14	

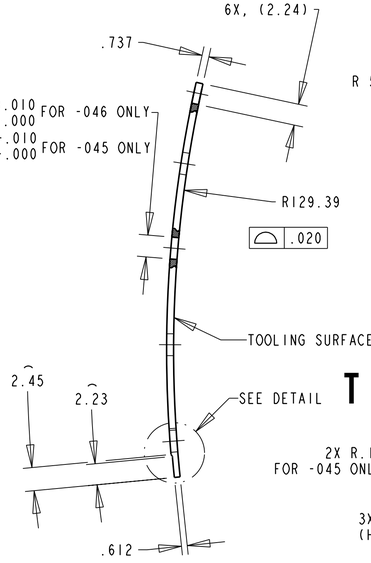
C89DC31

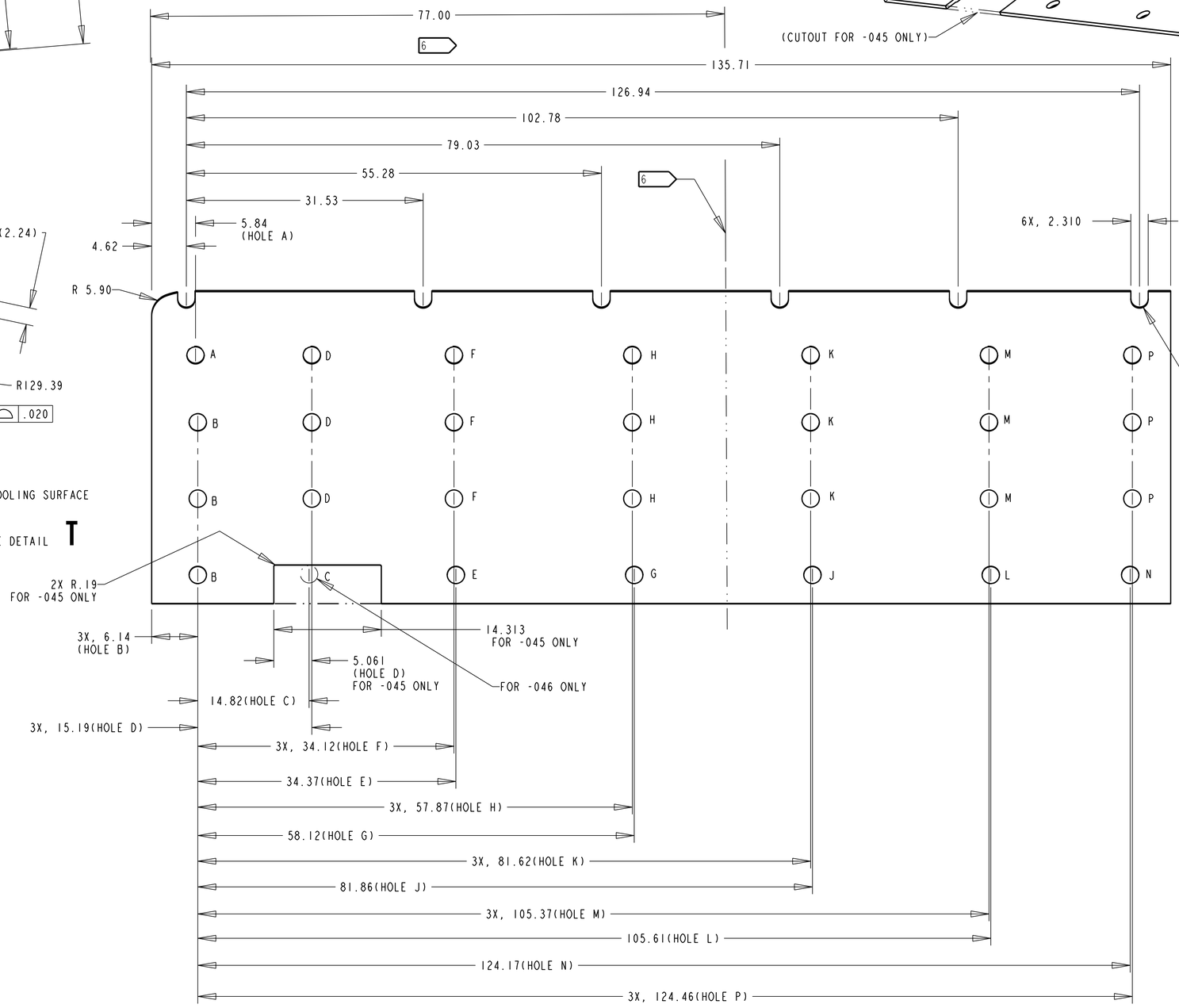


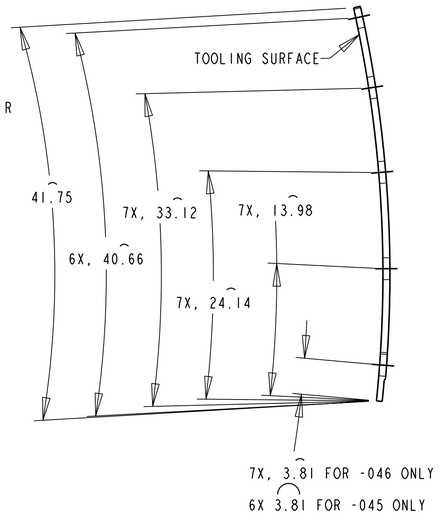
DETAIL T
SCALE 1/2



(-045 SHOWN)
(-046 OPPOSITE)
SCALE 1/10





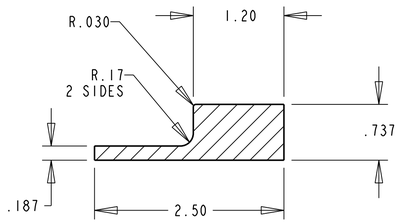


-045 CORE (SHOWN)
-046 CORE (OPPOSITE)
SCALE 1/8

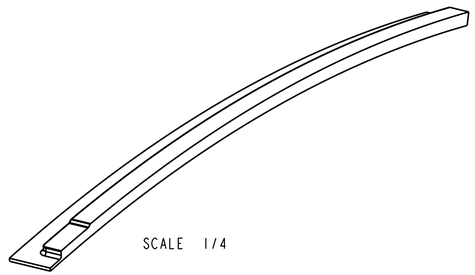
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 15	

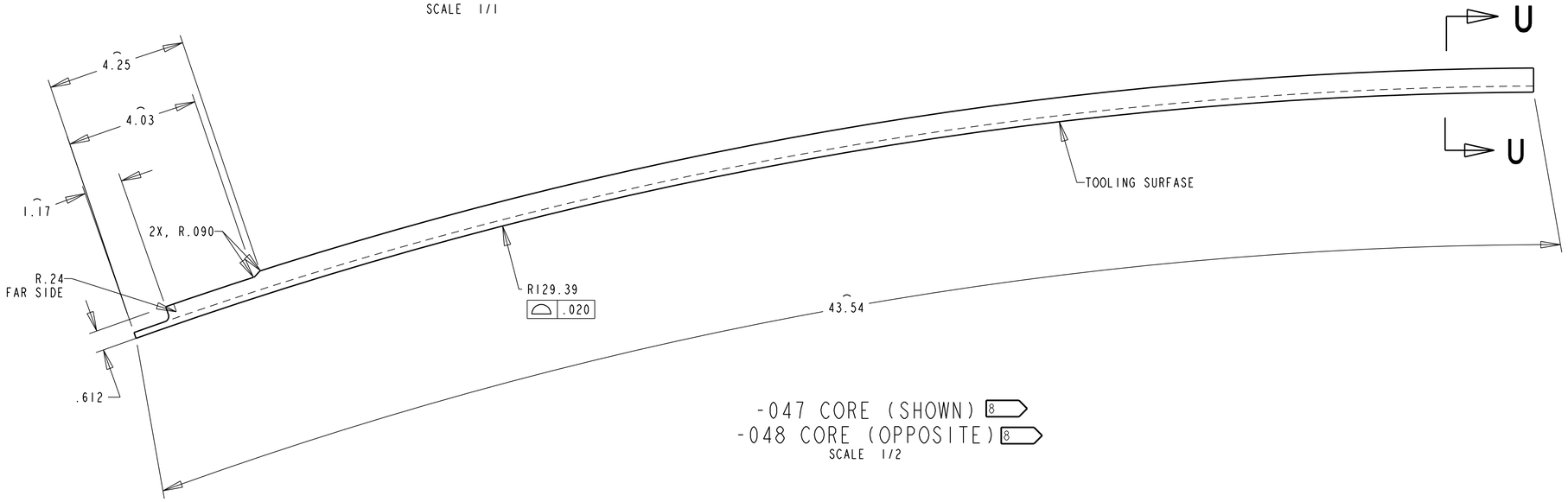
C89DC31



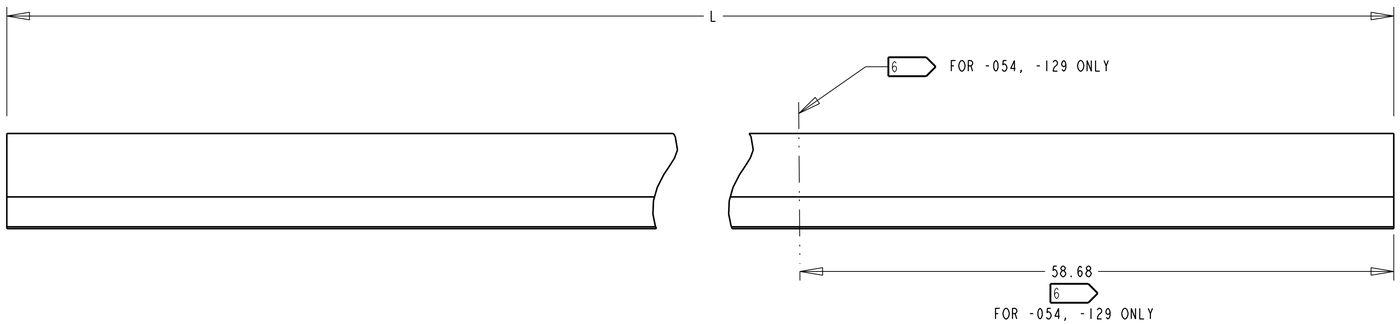
SECTION **U-U**
SCALE 1/1

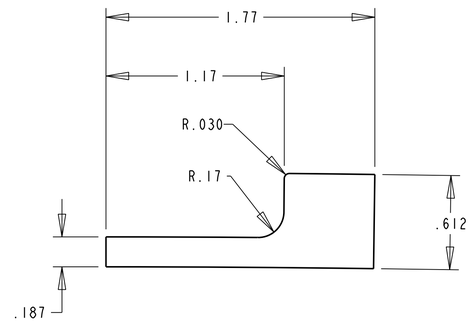


SCALE 1/4



-047 CORE (SHOWN) 8
-048 CORE (OPPOSITE) 8
SCALE 1/2



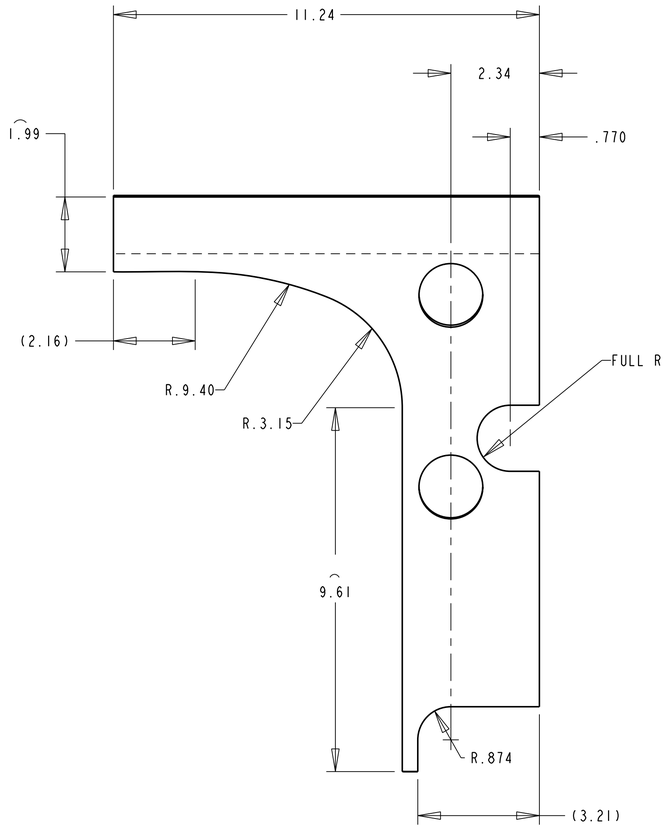


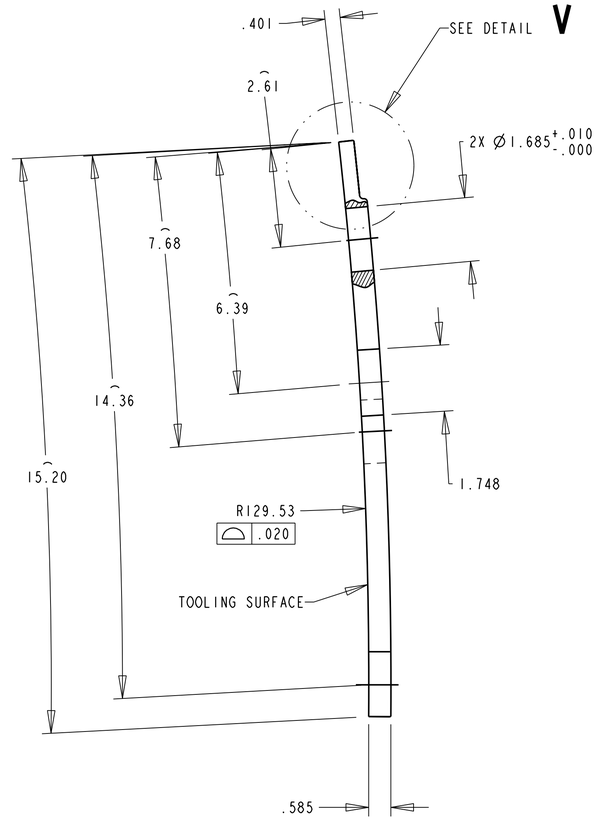
PART NUMBER	DESCRIPTION	L, IN
-054	CORE	135.71
-127	CORE	16.27
-129	CORE	105.13

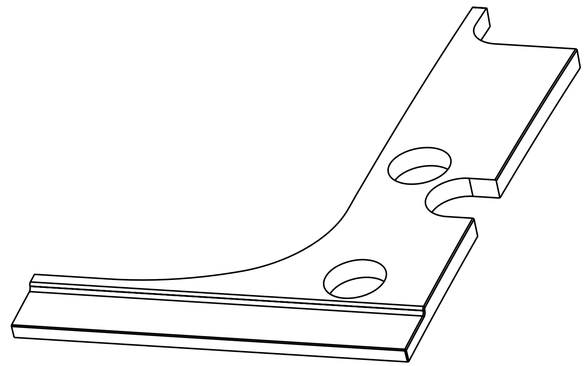
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 16	

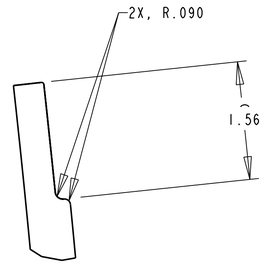
C89DC31



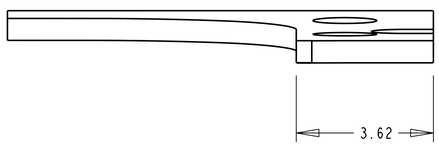




SCALE 1/2



DETAIL V
SCALE 1/1

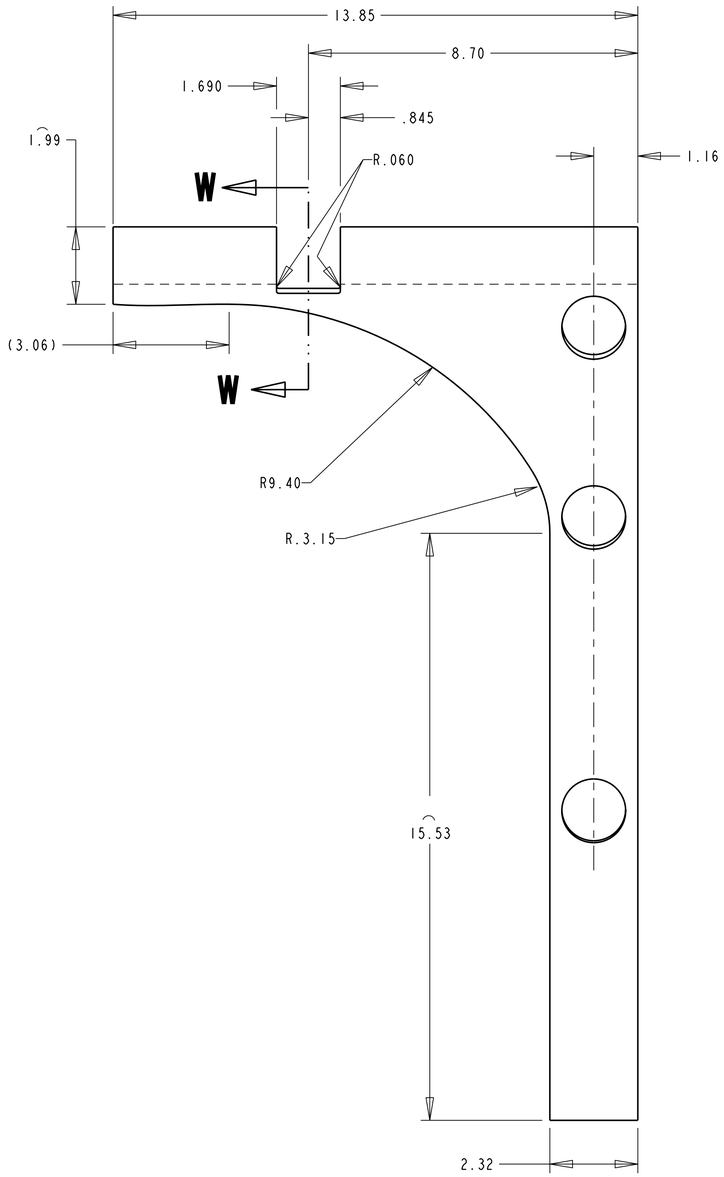


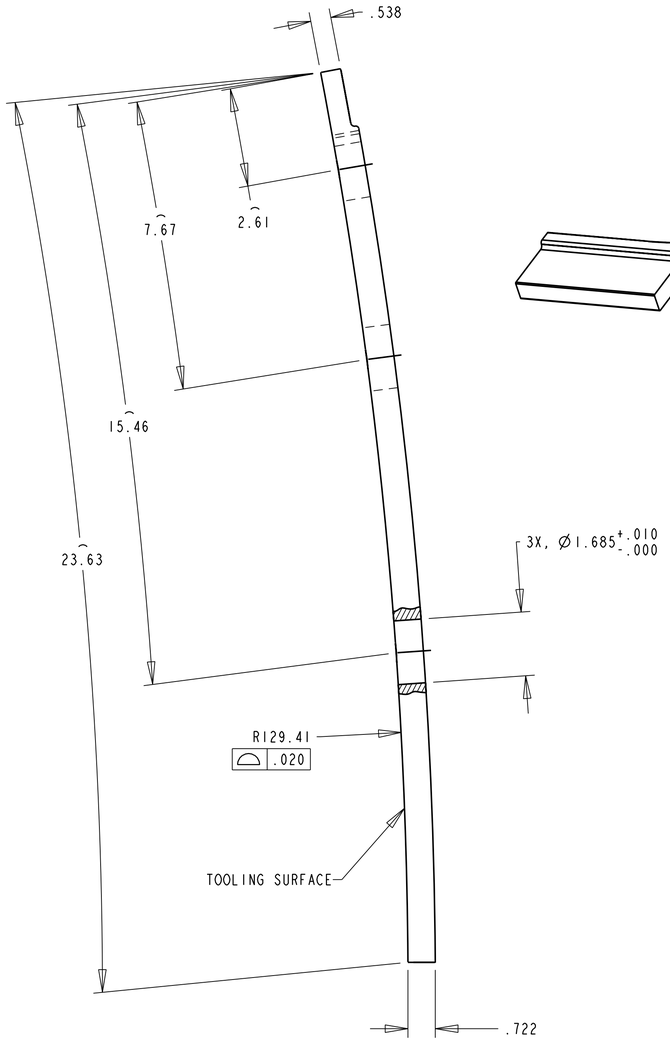
-057 CORE (OPPOSITE)
-058 CORE (SHOWN)
SCALE 1/2

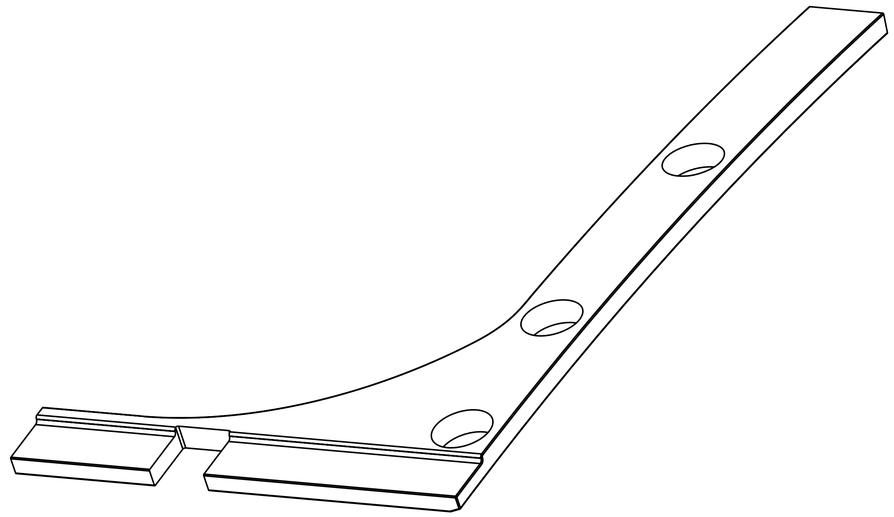
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 17	

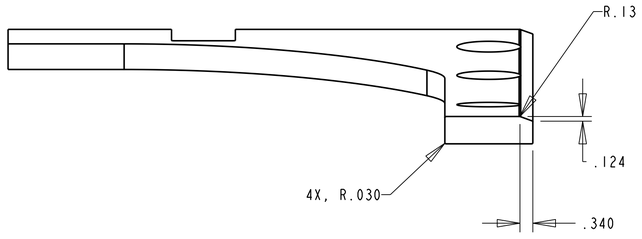
C89DC31



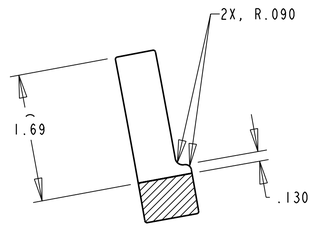




SCALE 1/2



-059 CORE
SCALE 1/2

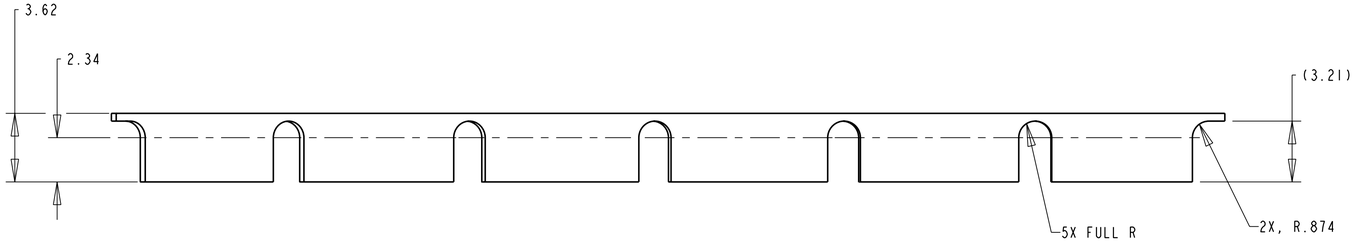


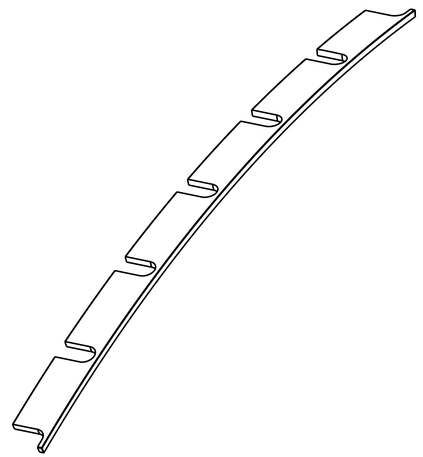
SECTION **W-W**
SCALE 1/1

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

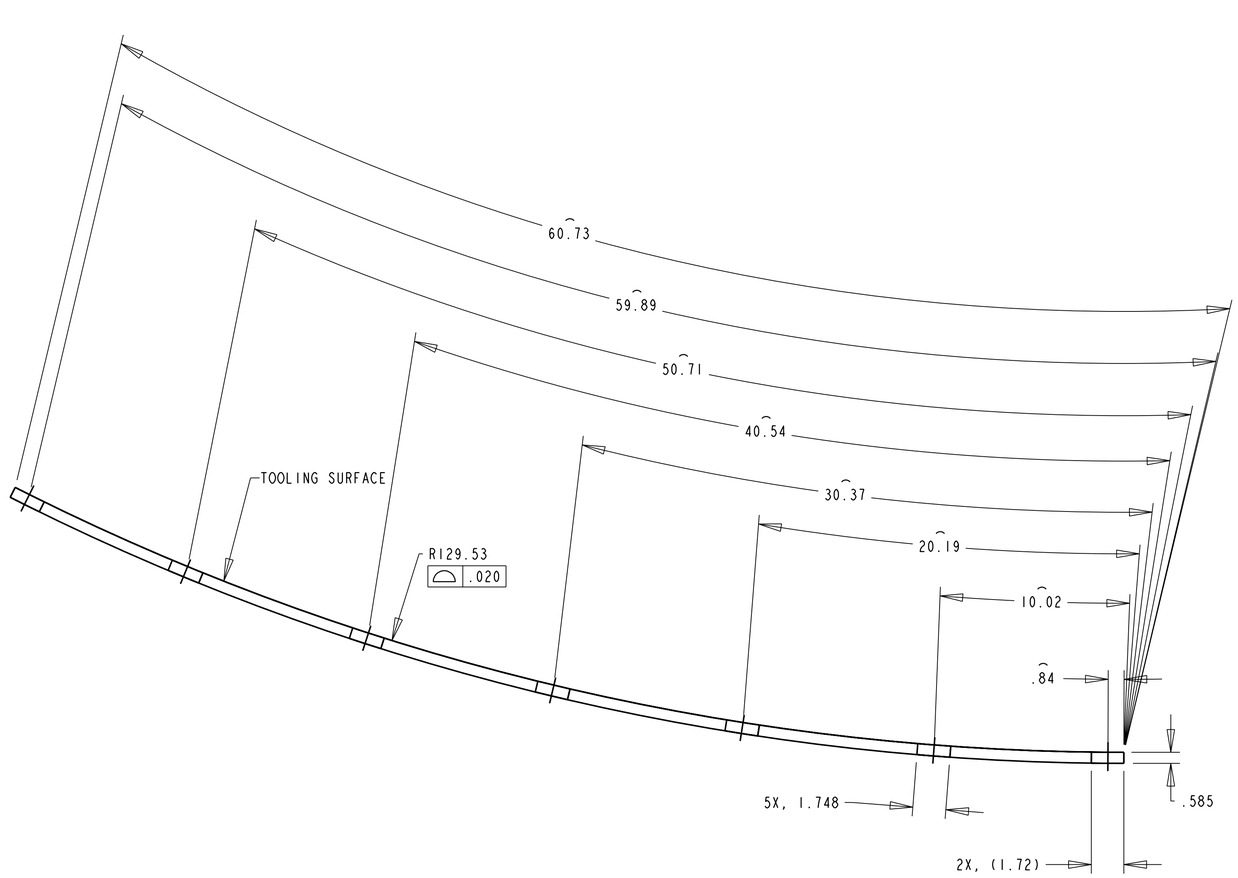
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 18	

C89DC31





SCALE 1/6



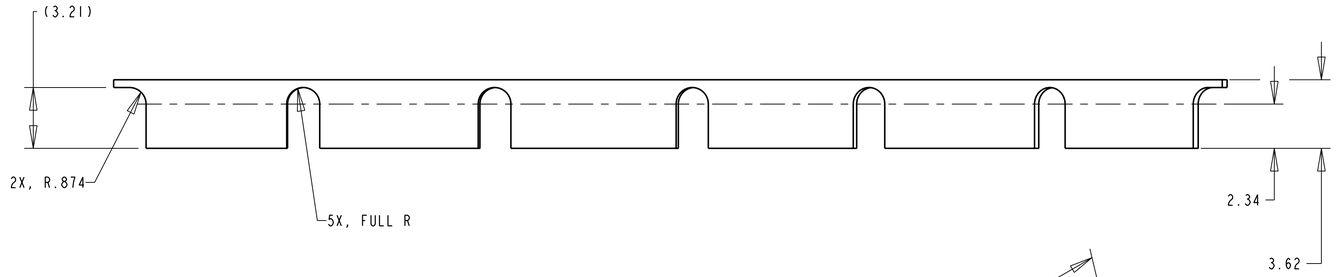
-061 CORE (SHOWN)
-062 CORE (OPPOSITE)

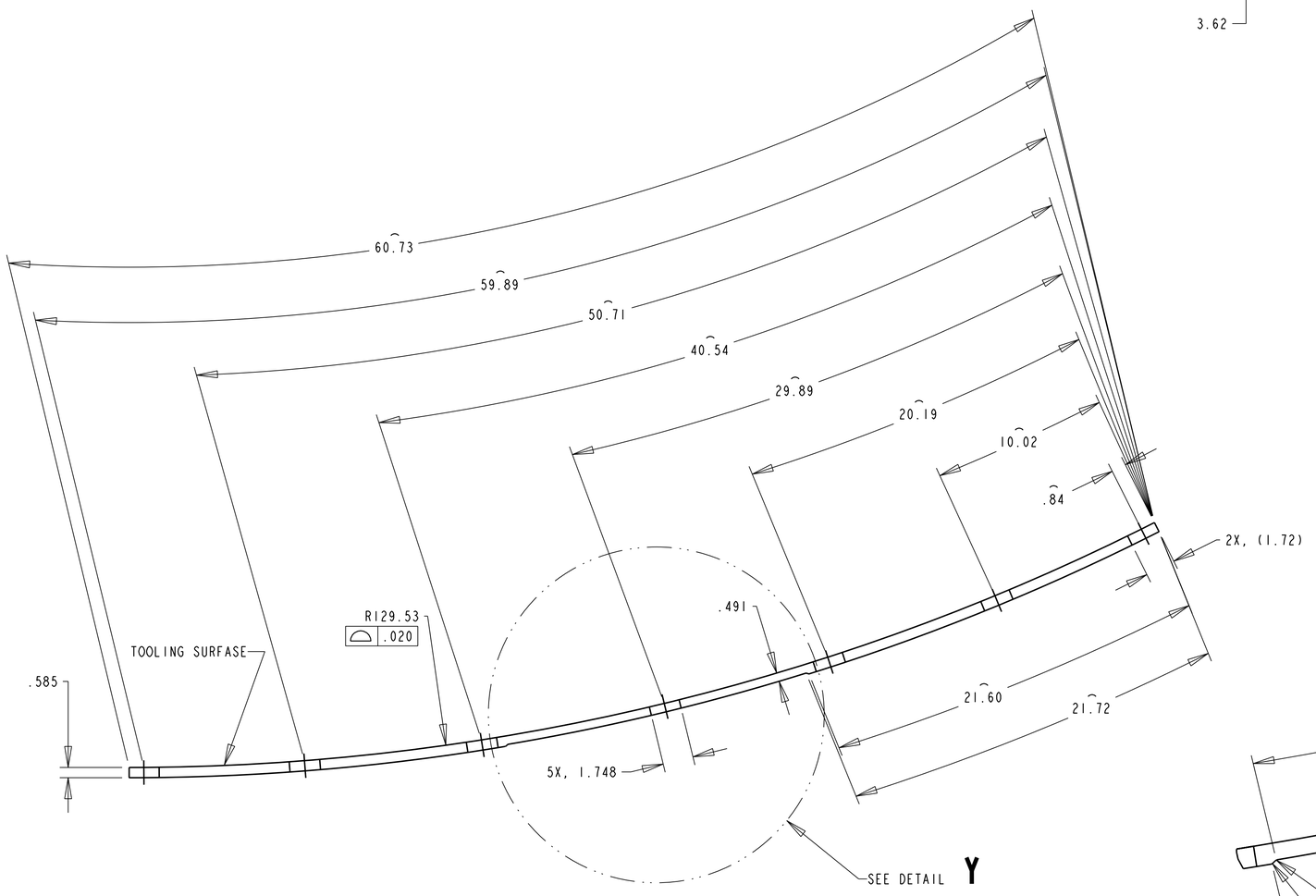
SCALE 1/4

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 19	

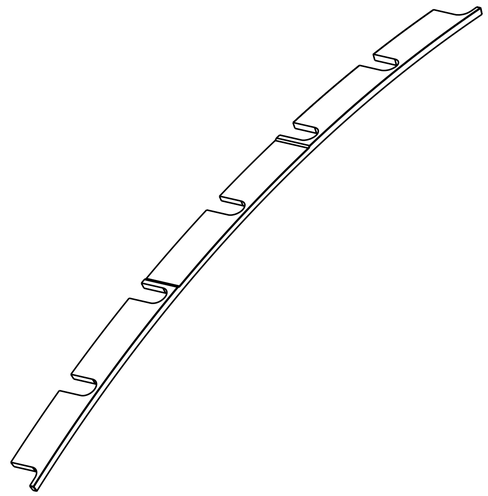
C89DC31



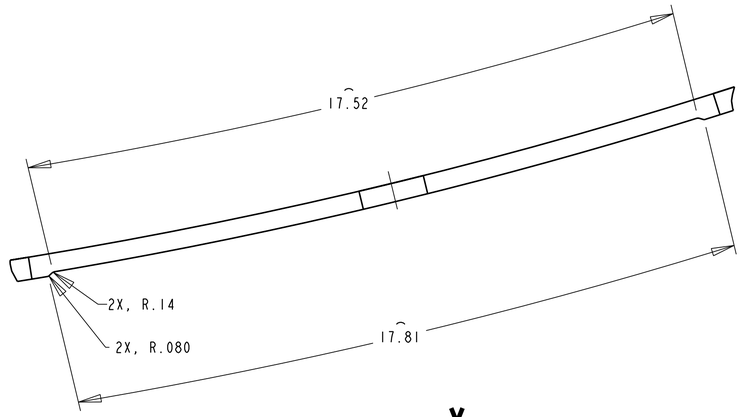


-063 CORE

SCALE 1/4



SCALE 1/6

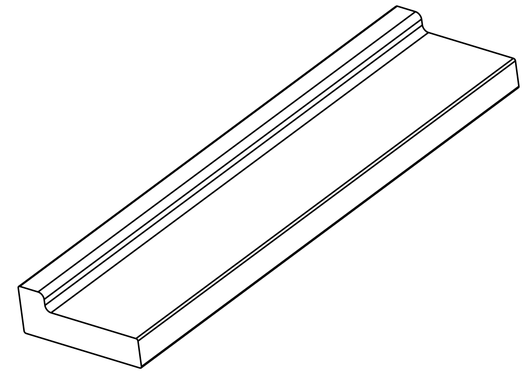


DETAIL Y
SCALE 1/2

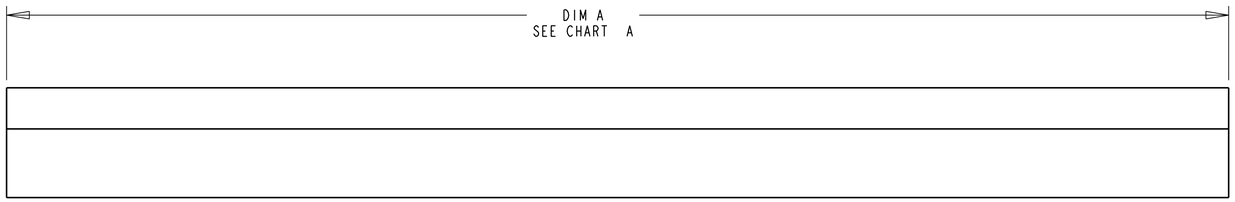
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

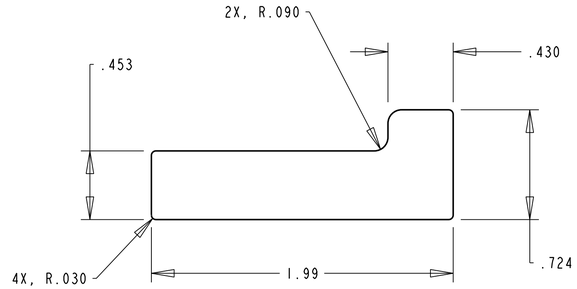
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 20	

C89DC31



SCALE 1/1





-070 CORE
-071 CORE
-073 CORE
-078 CORE
-080 CORE
-081 CORE
-082 CORE
-083 CORE

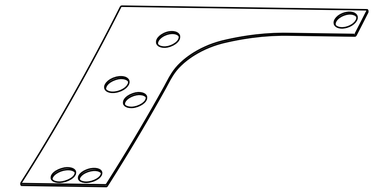
SCALE 2/1

CHART A	
DASH NUMBER	DIM A LENGTH
-070	8.07
-071	8.82
-073	8.07
-078	8.57
-080	7.32
-081	8.36
-082	9.34
-083	8.50

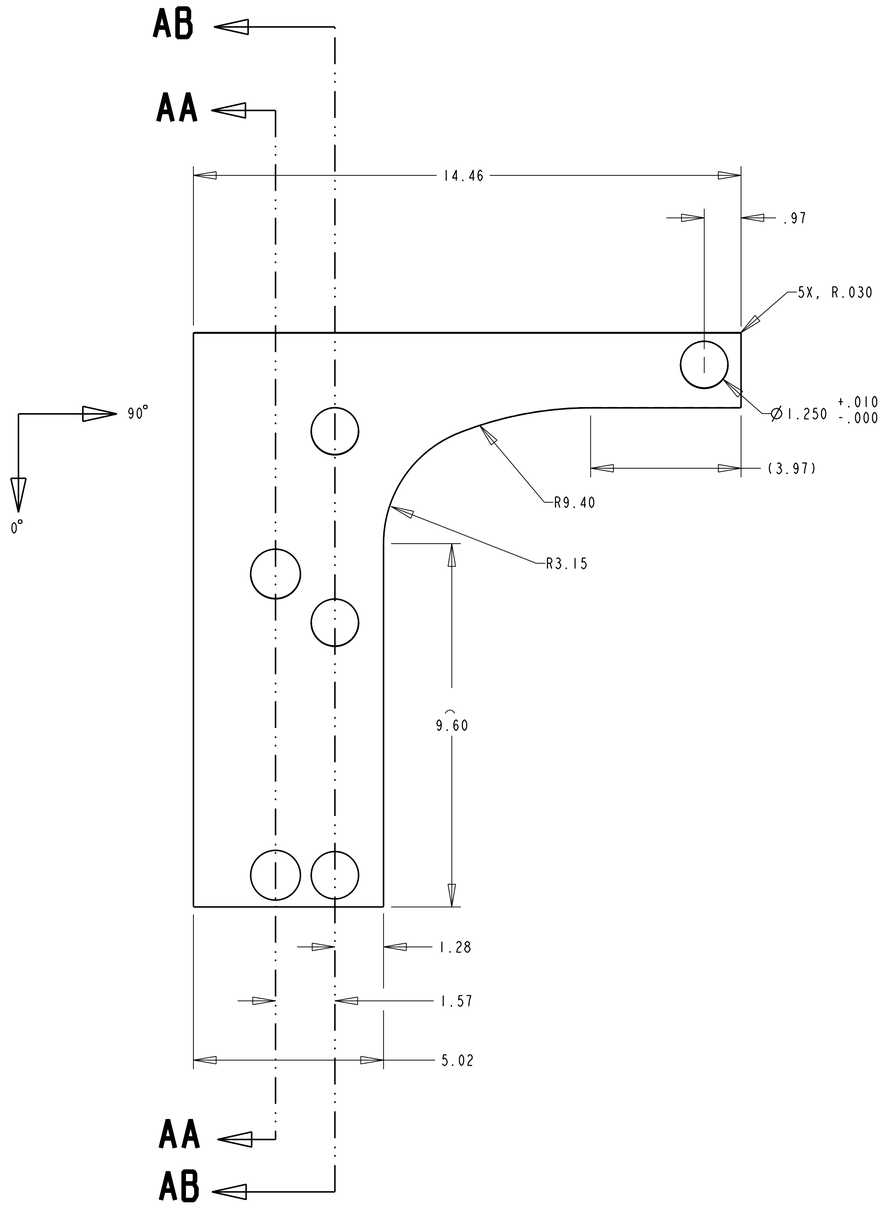
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

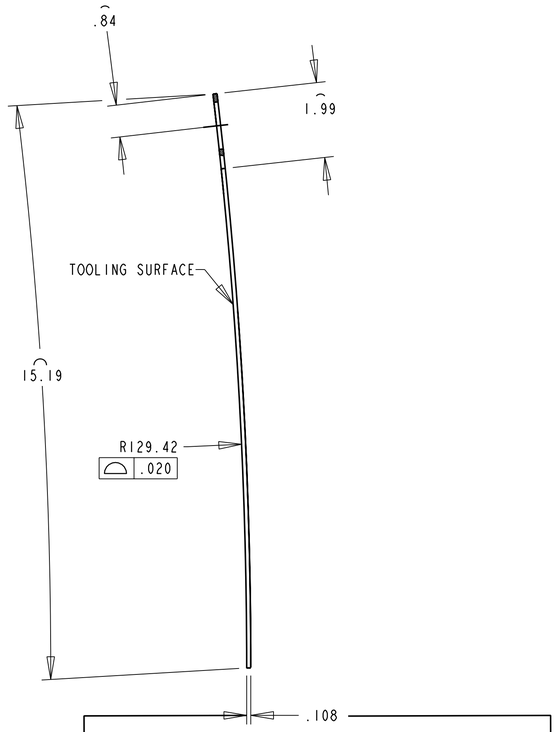
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 21	

C89DC31



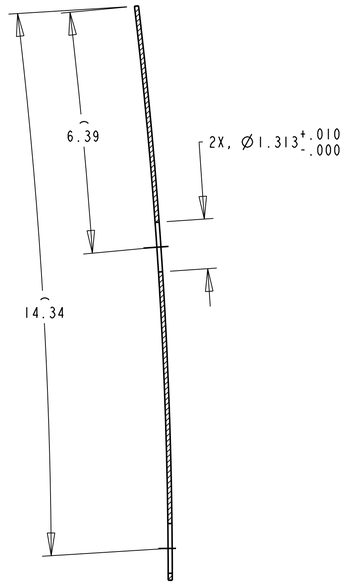
SCALE 1/4



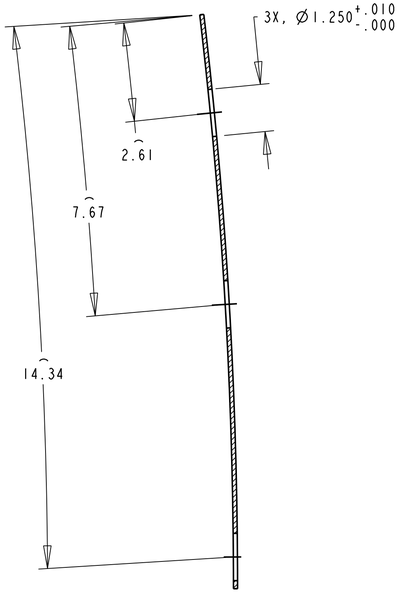


PLY #	ORIENT	MATERIAL	NOTES
1	45°	MXB7214-7781-38	TOOLING
2	0°	MXB7214-7781-38	
3	45°	MXB7214-7781-38	
4	0°	MXB7214-7781-38	
5	45°	MXB7214-7781-38	
6	0°	MXB7214-7781-38	
7	45°	MXB7214-7781-38	
8	0°	MXB7214-7781-38	
9	45°	MXB7214-7781-38	
10	0°	MXB7214-7781-38	

-075 FLANGE STIFFENER (SHOWN)
-076 FLANGE STIFFENER (OPPOSITE)
SCALE 1/2



SECTION **AA-AA**
SCALE 1/2

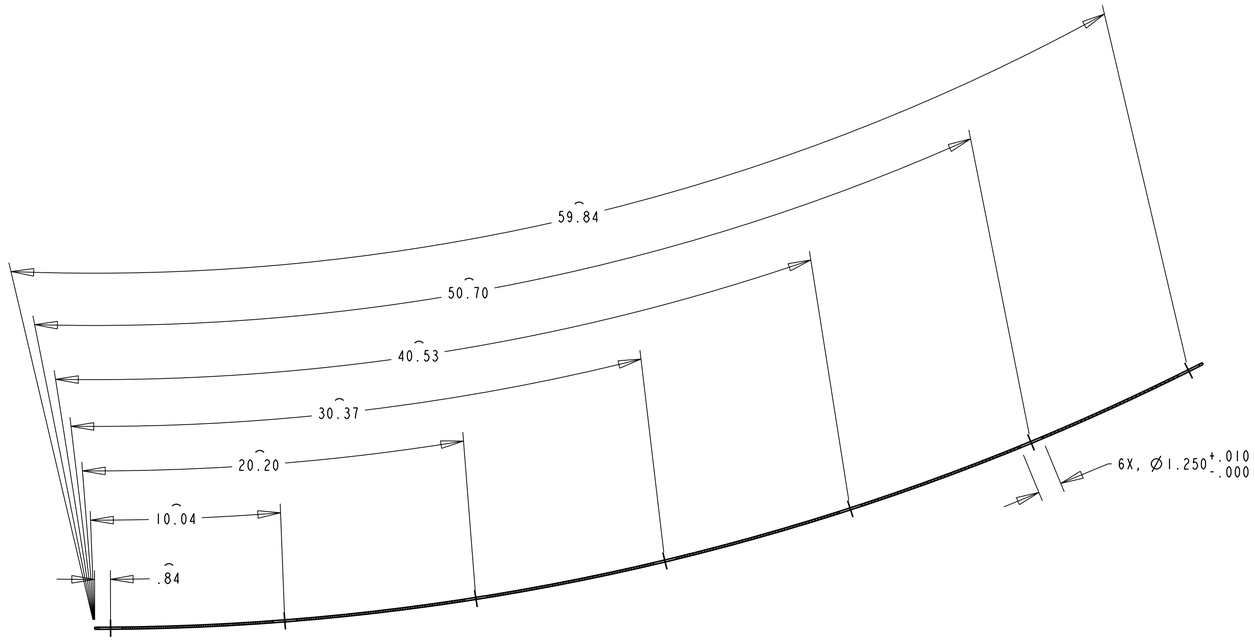


SECTION **AB-AB**
SCALE 1/2

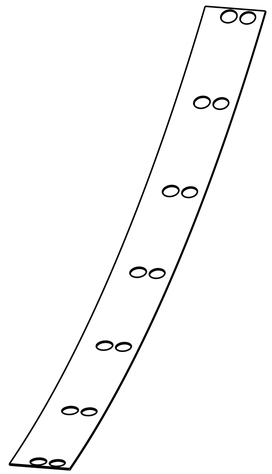
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 22	

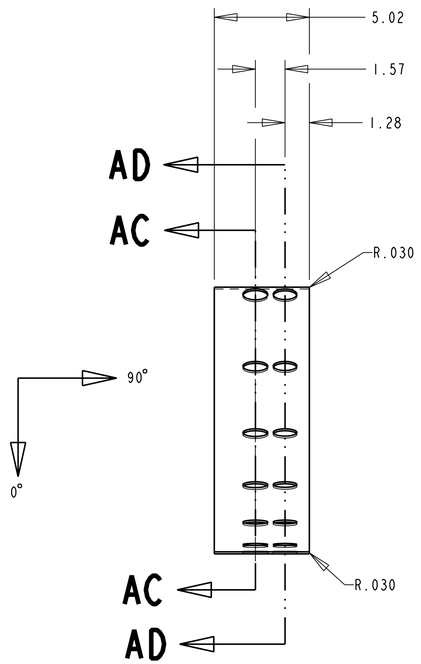
C890C31

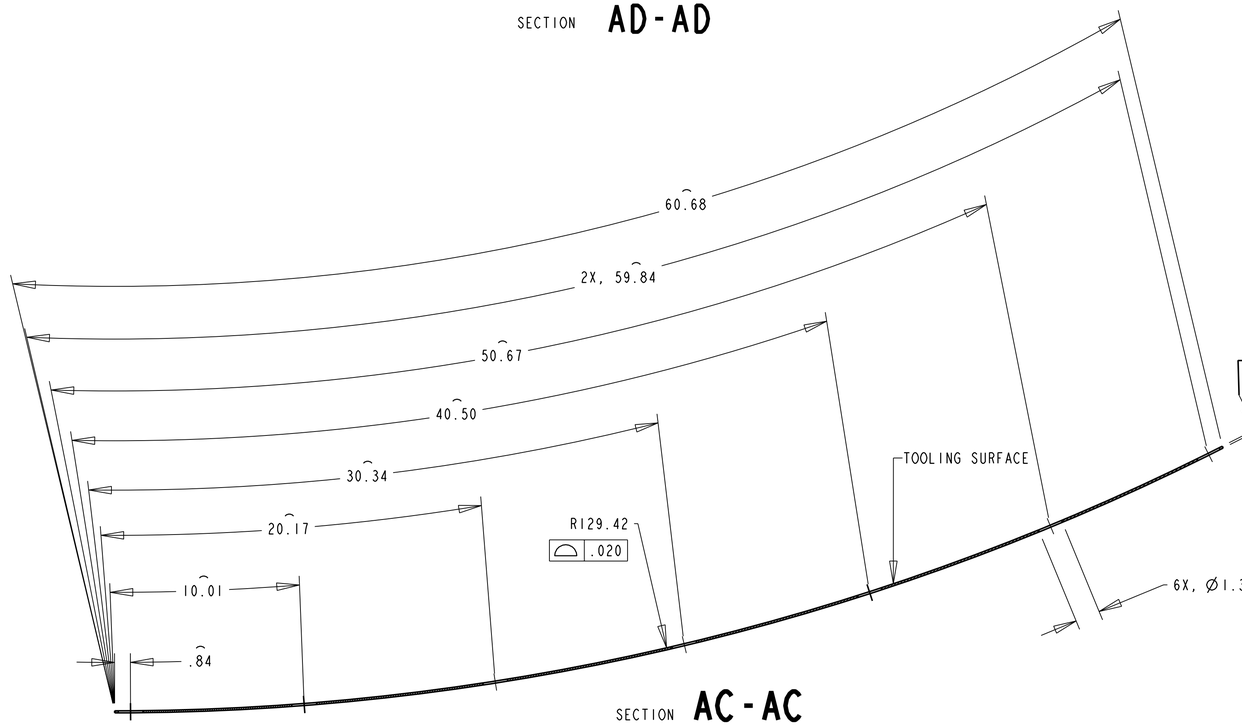


SECTION **AD-AD**



SCALE 1/6





PLY #	ORIENT	MATERIAL	NOTES
1	45°	MXB7214-7781-38	TOOLING
2	0°	MXB7214-7781-38	
3	45°	MXB7214-7781-38	
4	0°	MXB7214-7781-38	
5	45°	MXB7214-7781-38	
6	0°	MXB7214-7781-38	
7	45°	MXB7214-7781-38	
8	0°	MXB7214-7781-38	
9	45°	MXB7214-7781-38	
10	0°	MXB7214-7781-38	

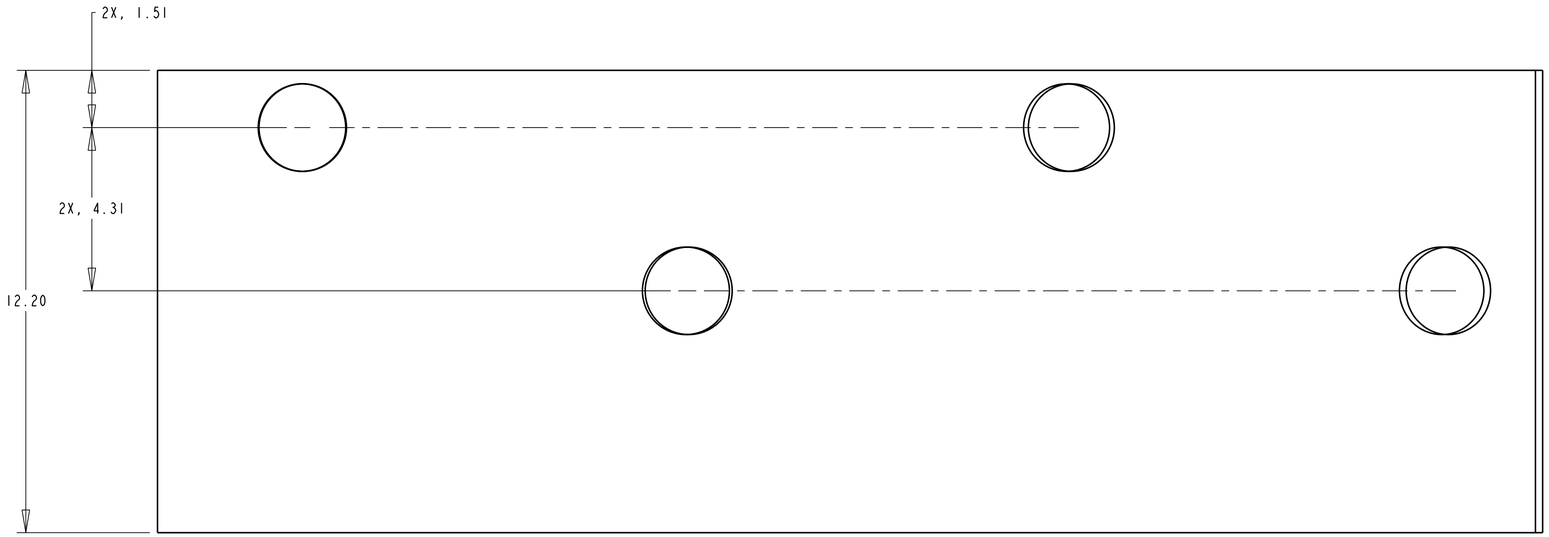
SECTION **AC-AC**

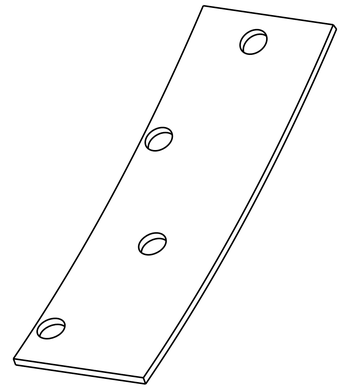
-085 FLANGE STIFFENER
-086 FLANGE STIFFENER
SCALE 1/4

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

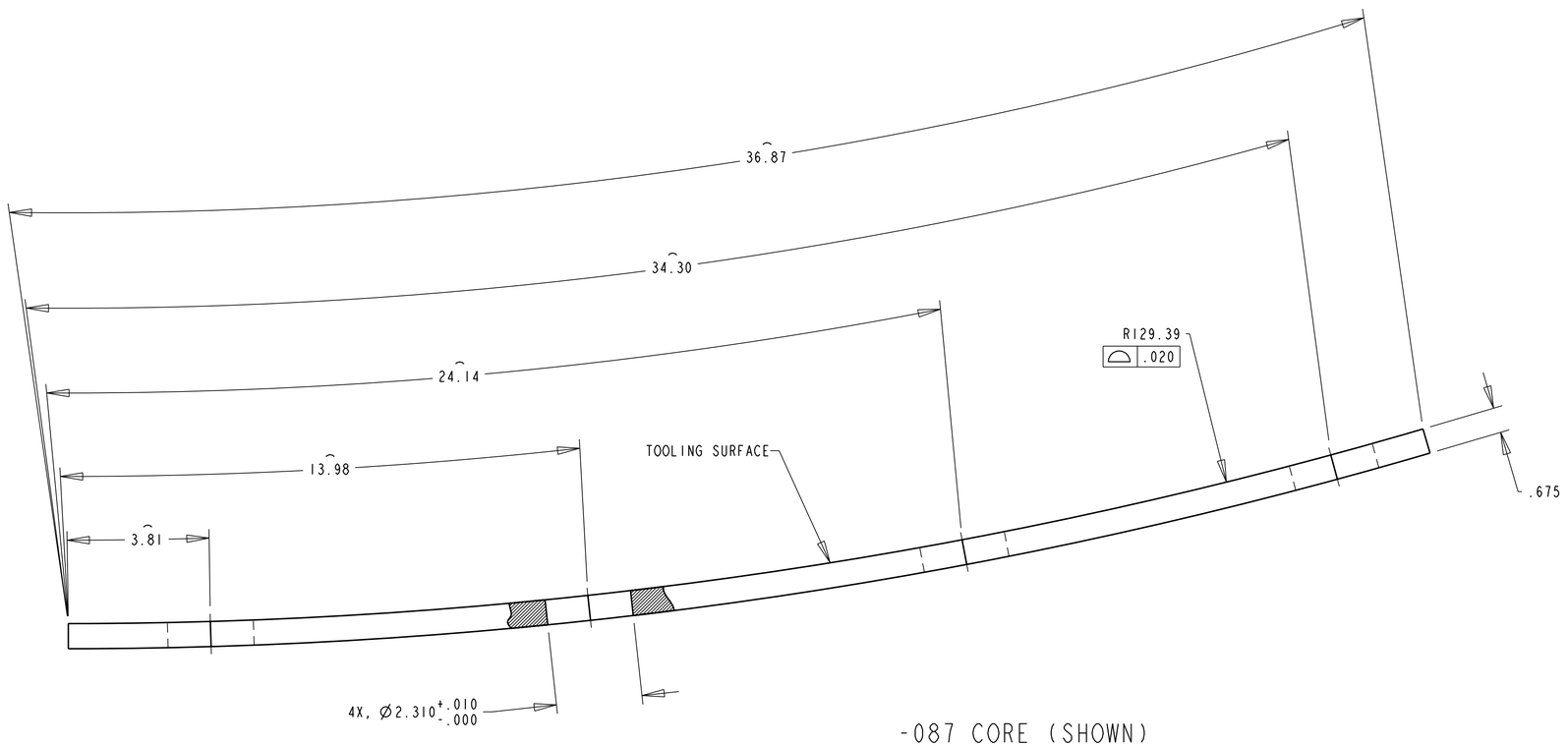
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 23	

C89DC31





SCALE 1/6



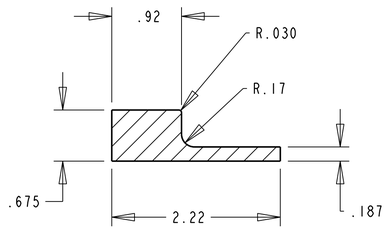
-087 CORE (SHOWN)
-088 CORE (OPPOSITE)

SCALE 1/2

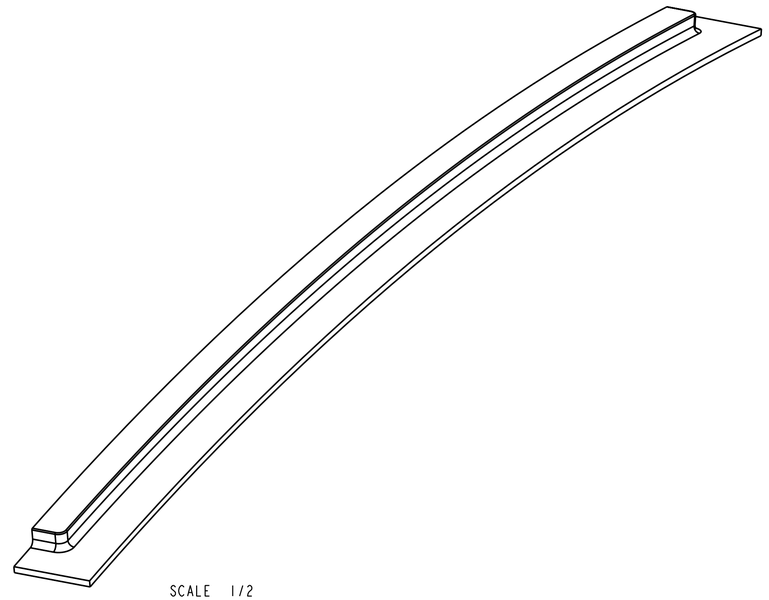
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 24	

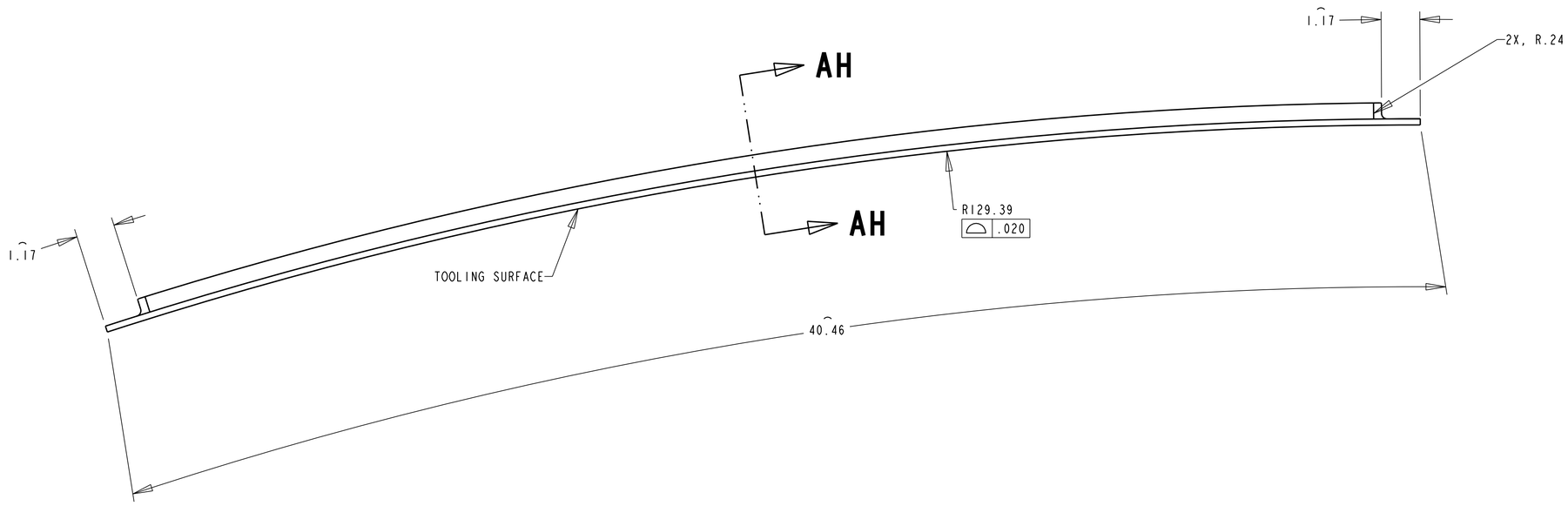
C89DC31



SECTION **AH-AH**
SCALE 1/1



SCALE 1/2

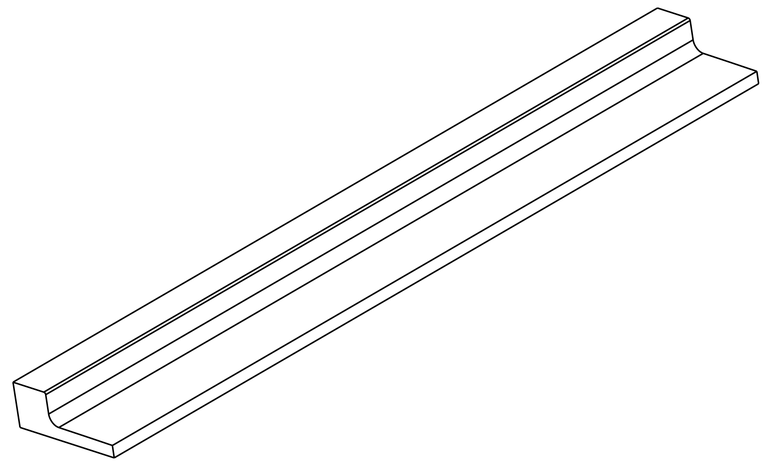


-089 CORE 8
SCALE 1/2

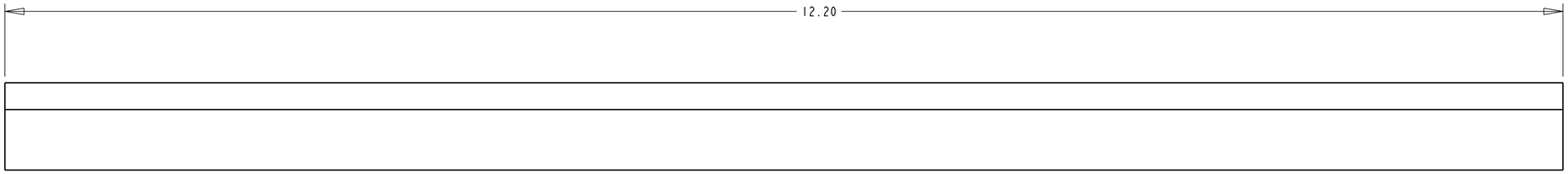
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

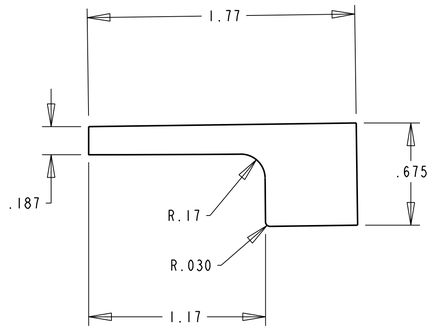
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 25	

C89DC31



SCALE 1/1



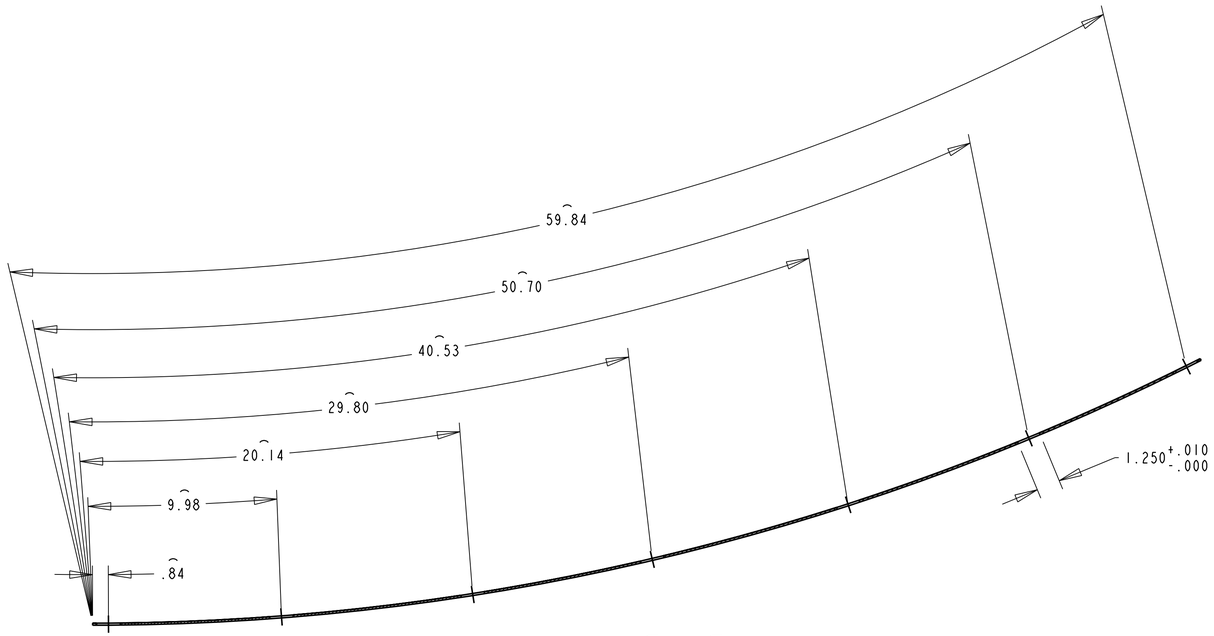


-091 CORE
SCALE 2/1

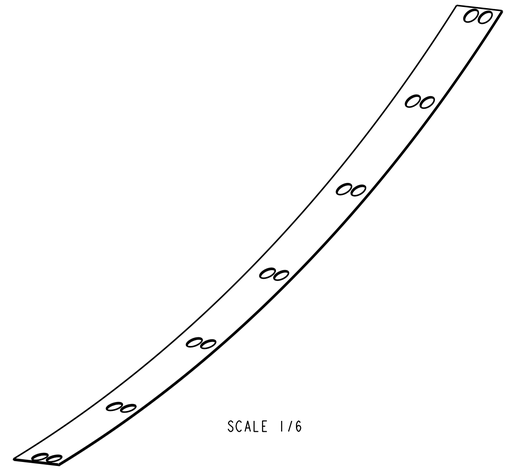
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 26	

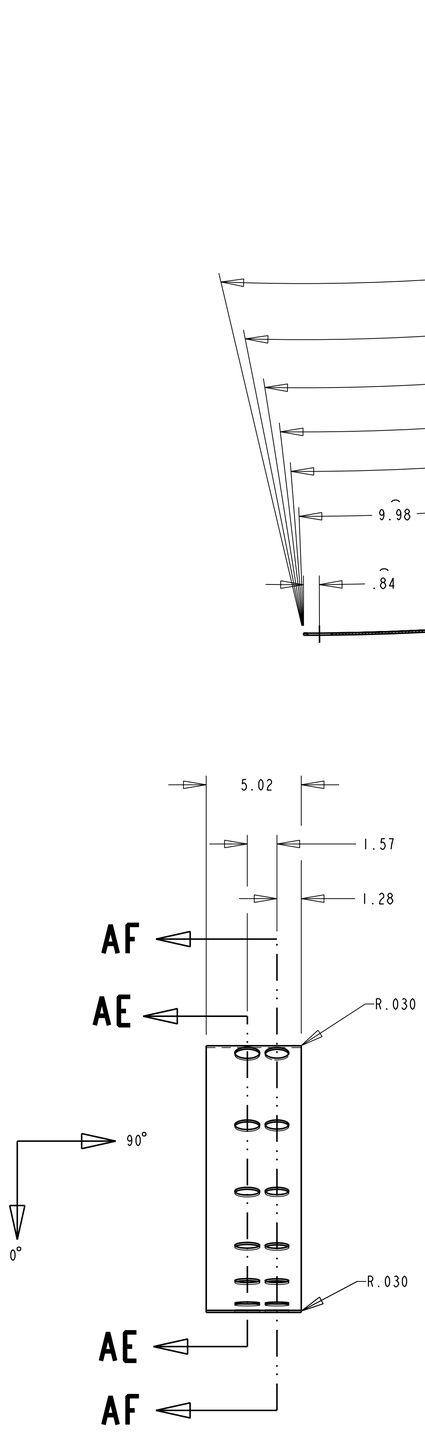
C89DC31

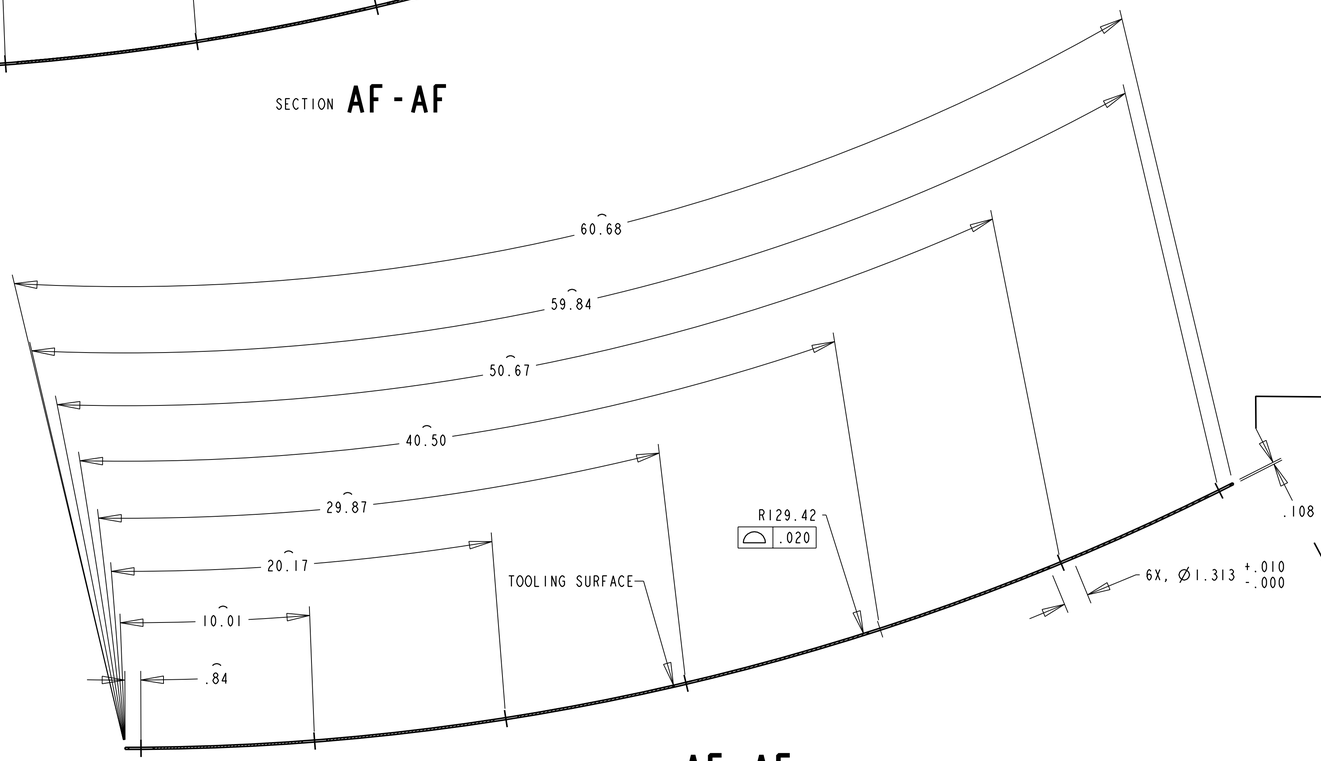


SECTION **AF - AF**



SCALE 1/6





SECTION **AE - AE**

PLY #	ORIENT	MATERIAL	NOTES
1	45°	MXB7214-7781-38	TOOLING
2	0°	MXB7214-7781-38	
3	45°	MXB7214-7781-38	
4	0°	MXB7214-7781-38	
5	45°	MXB7214-7781-38	
6	0°	MXB7214-7781-38	
7	45°	MXB7214-7781-38	
8	0°	MXB7214-7781-38	
9	45°	MXB7214-7781-38	
10	0°	MXB7214-7781-38	

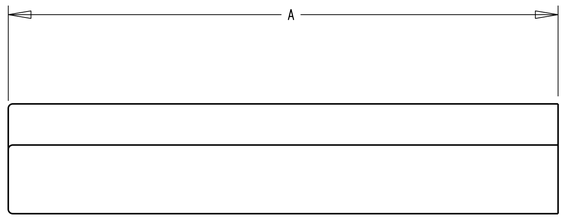
-093 FLANGE STIFFENER

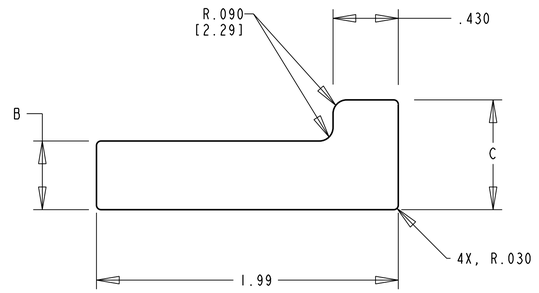
SCALE 1/4

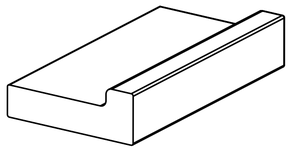
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 27	

C89DC31



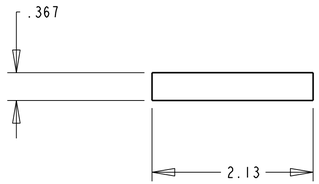


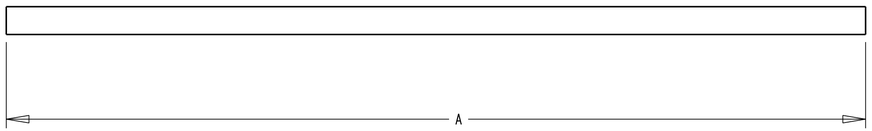


SCALE 1/1

DIMENSION, IN.			
DASH NUMBER	A	B	C
-095	3.63	.453	.724
-097	3.72	.538	.722

-095 CORE (SHOWN)
-097 CORE
SCALE 2/1





DIMENSION, IN.	
DASH NUMBER	A
-101	11.34
-105	19.30
-107	7.56

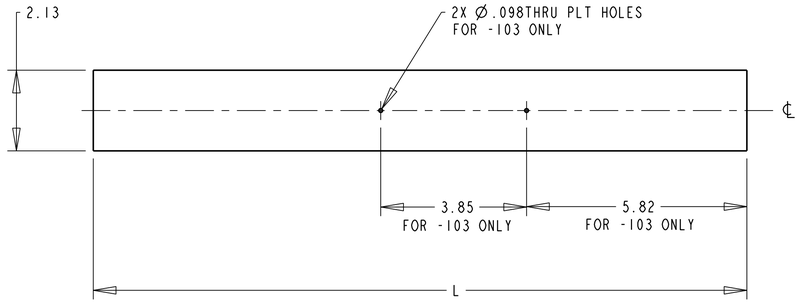
-101 CORE
-105 CORE
-107 CORE

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

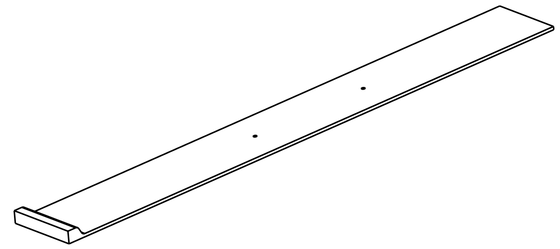
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C

SCALE NOTED | Pro/ENGINEER | SHEET 28

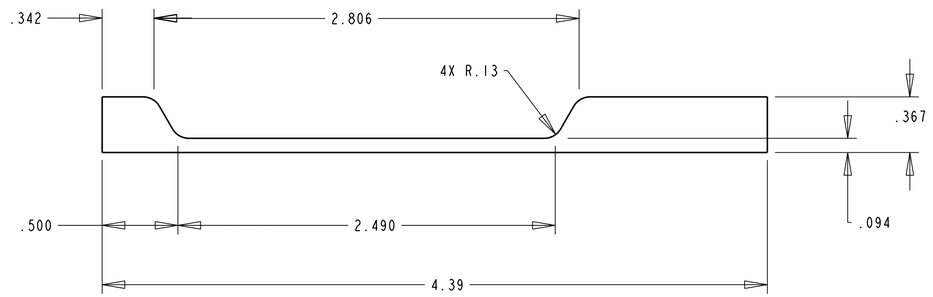
C89DC31

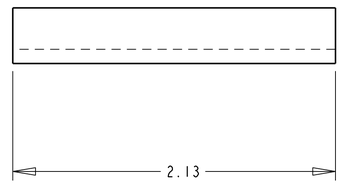


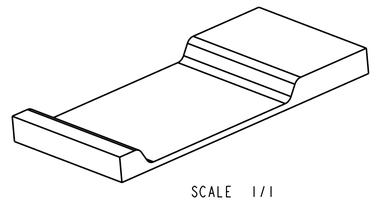
PART NUMBER	DESCRIPTION	L, IN
-103	PANEL	17.25
-117	PANEL	2.47



(-103 SHOWN)
SCALE 1/2







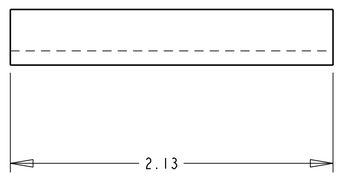
SCALE 1/1

-109 PANEL
SCALE 2/1

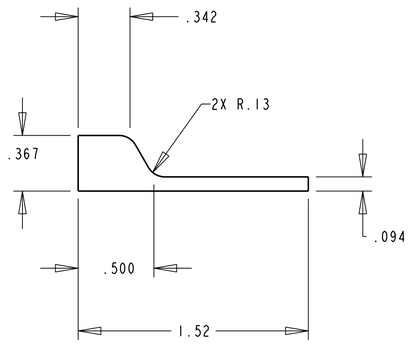
L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

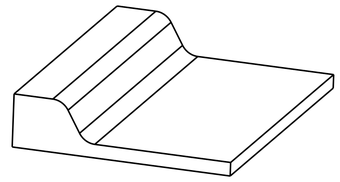
SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 29	

C89DC31

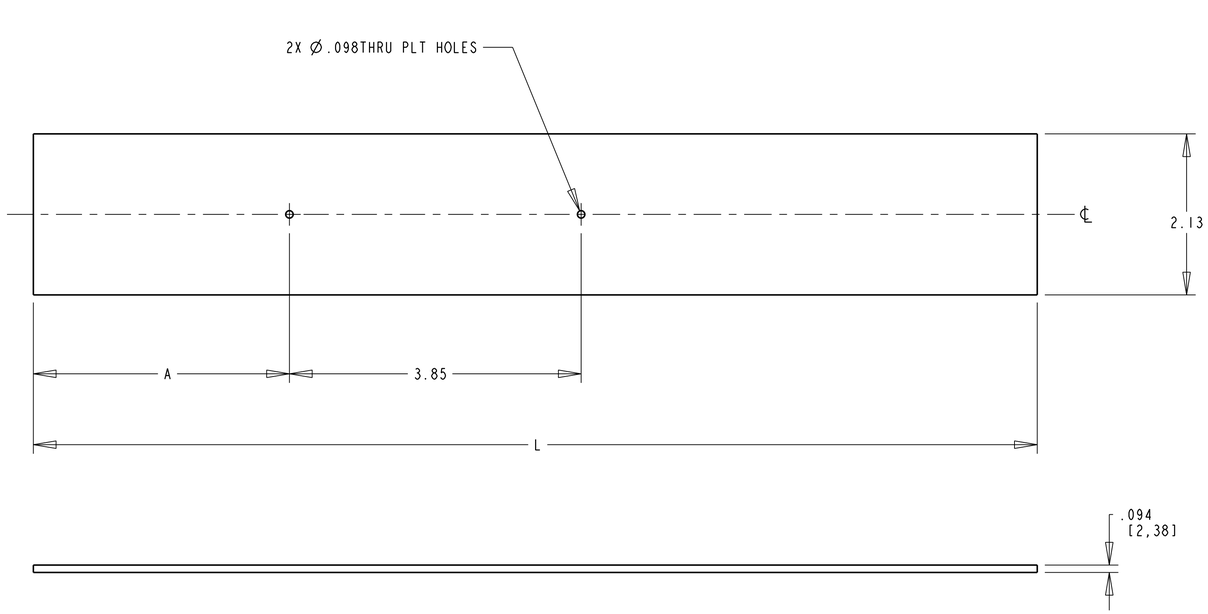


-111 PANEL
SCALE 2/1





SCALE 2/1

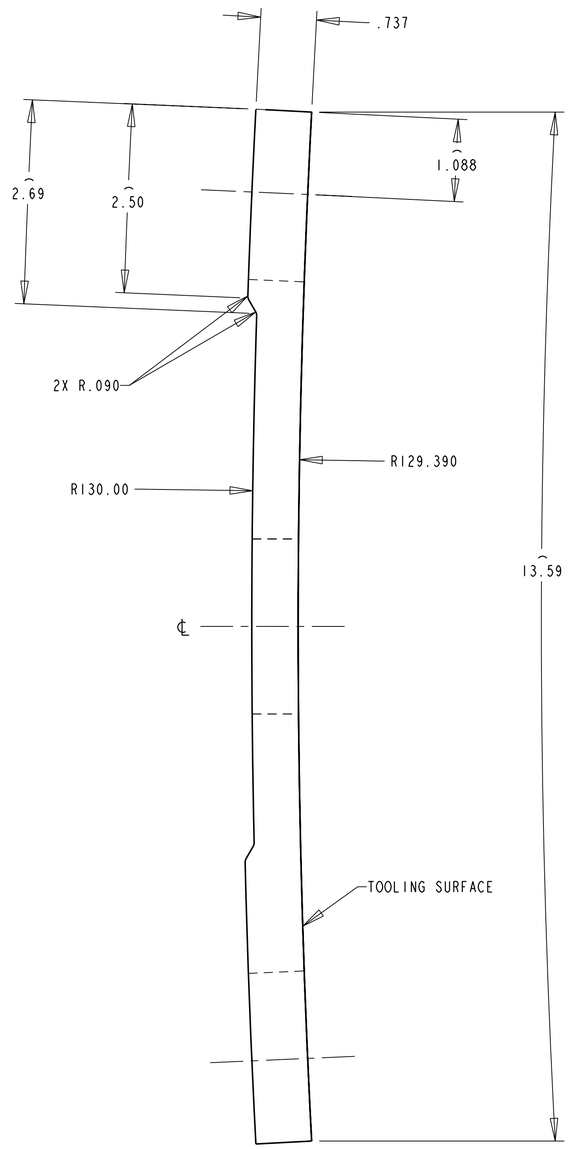


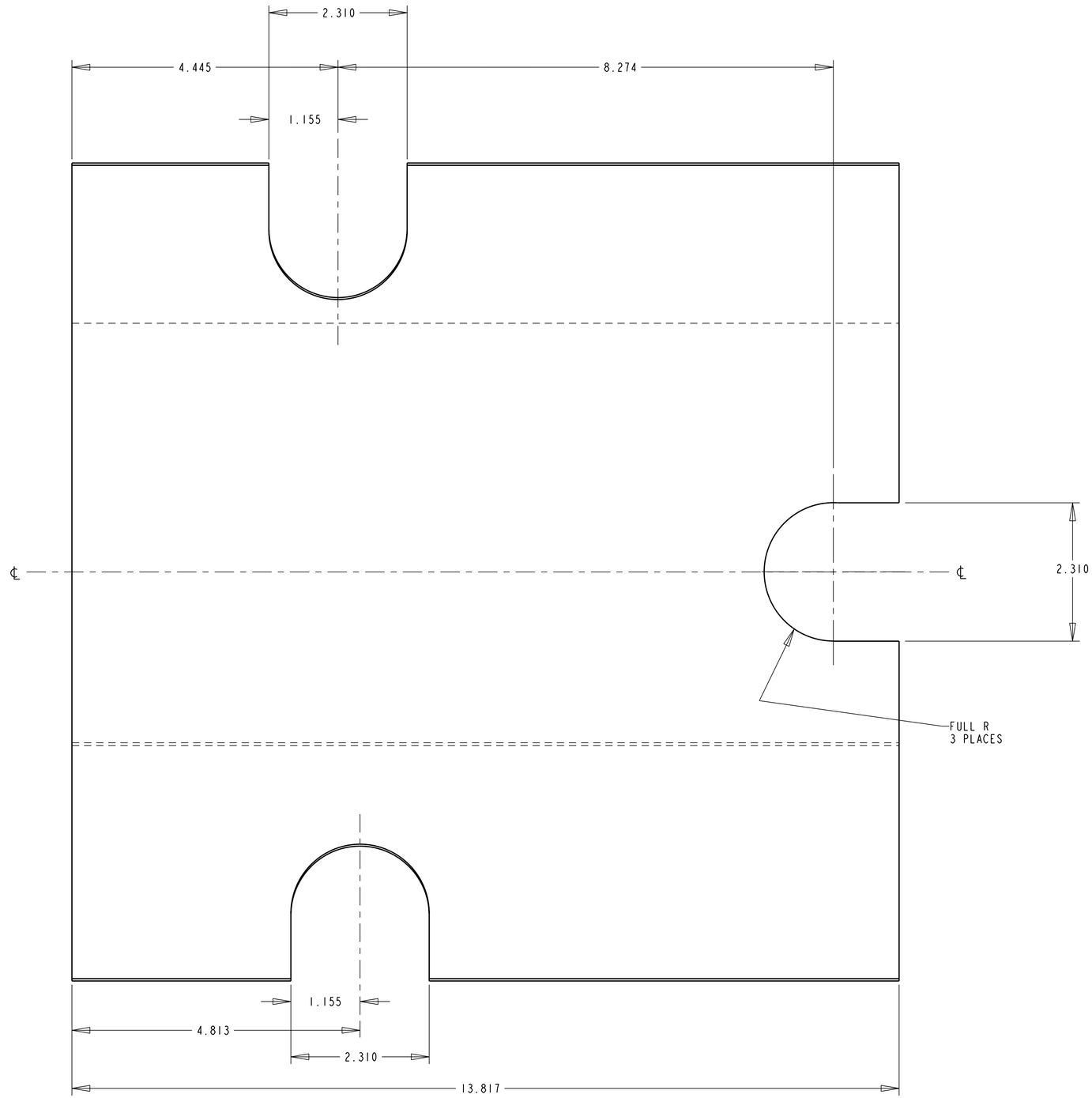
PART NUMBER	DESCRIPTION	L, IN
-115	PANEL	13.25
-119	PANEL	16.30

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 30	

C89DC31





-121 CORE
SCALE 1/1

L3 communications Integrated Systems
P.O. BOX 154580
WACO, TEXAS 76715-4580

SIZE	CAGE CODE	DWG NO.	REV
D	0GCL4	96131518	C
SCALE NOTED	Pro/ENGINEER	SHEET 31	

C89DC31