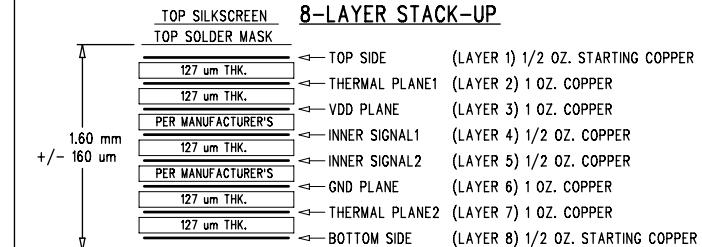


NOTES: (UNLESS OTHERWISE SPECIFIED) ALL DIMENSIONS ARE IN MILLIMETERS.

- FABRICATE PCB IN ACCORDANCE WITH CAL AFEE PROCUREMENT SPECIFICATION LAT-DS-01127-01, USING MASTER ARTWORKS LAT-DS-03344-02 DATED 9-APRIL-2004.
- BOARD LAYERS = 8.
- OVERALL FINISHED THICKNESS 1.60mm +/- 0.16mm.
- MATERIAL: EPOXY GLASS, POLYIMIDE.
- SIZES IN DRILL CHART ARE FINISHED HOLE DIAMETERS IN MILLIMETERS.
- SOLDER MASK BOTH SIDES SMOBC, DRY FILM, COLOR GREEN.
- SILKSCREEN COLOR WHITE, LOW OUTGASSING.
- MIN. CONDUCTOR WIDTH/SPACING Ø.10mm / Ø.10mm.
- MIN. EXTERNAL AND INTERNAL ANNULAR RING Ø.002" INCH.
- FABRICATOR TO PULL ANY EXPOSED COPPER Ø.020" IN FROM BOARD EDGE.
- ALL EXPOSED COPPER FINISHED HASL, MAX. Ø.002" THICK SOLDER.
- CONTROLLED DEPTH ROUTING MUST MAINTAIN MINIMUM Ø.5mm (20 MIL) CLEARANCE FROM TOPSIDE COPPER.

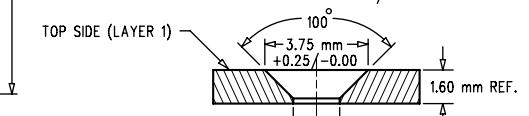


213.00 REF.

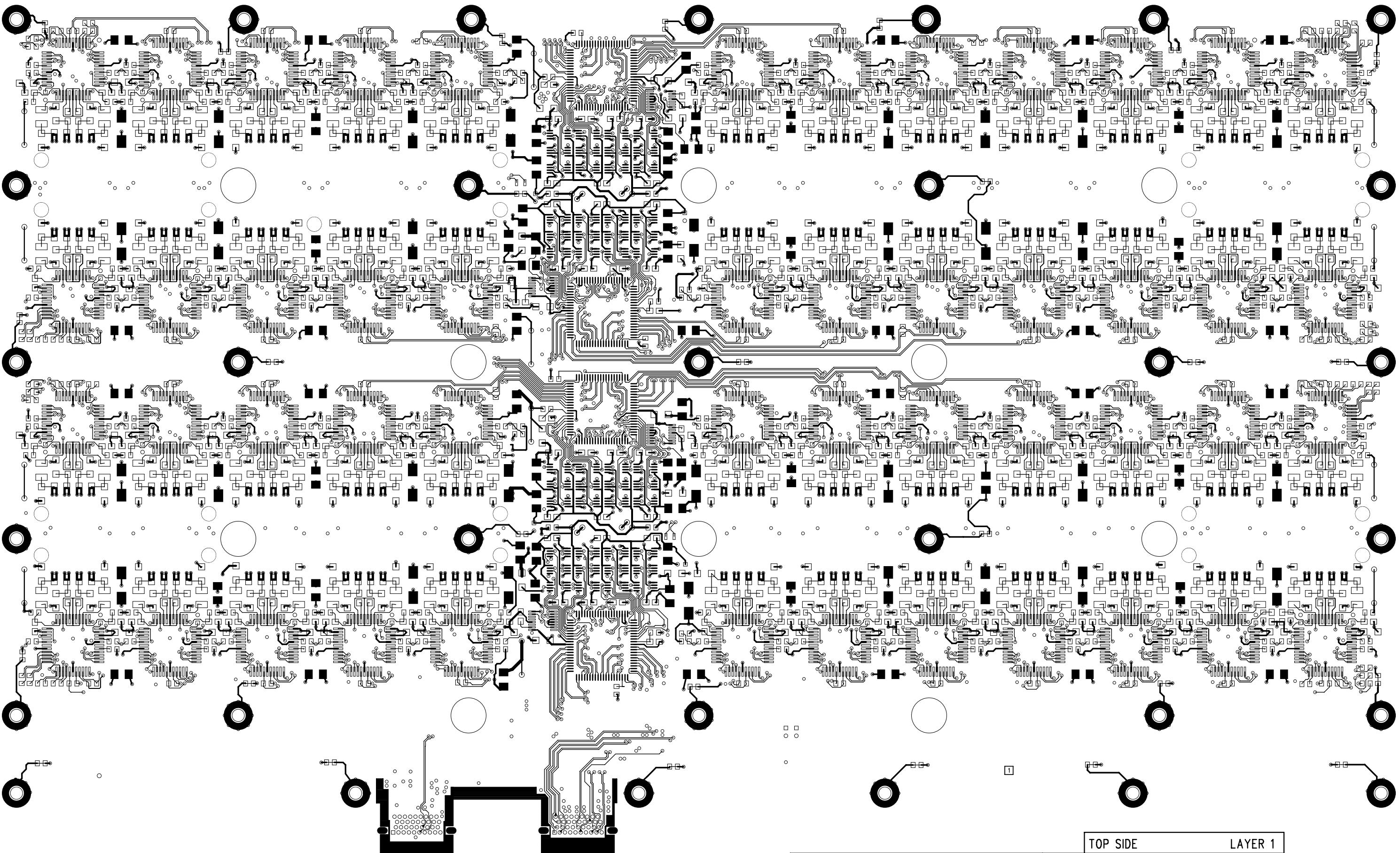
SIZE	QTY	SYM	PLTD
10	3382	+	PLTD
16	116	X	PLTD
20	2	□	PLTD
31	36	◊	PLTD
50	4	☒	NPLTD
64	8	A	NPLTD
334.65	10	D	NPLTD
8	246	V	PLTD
17	74	W	PLTD
118.11	31	X	NPLTD
118	21	Y	NPLTD
86.61	2	Z	NPLTD
64 x 100	4	A	NPLTD

==> +/- 0.05 mm

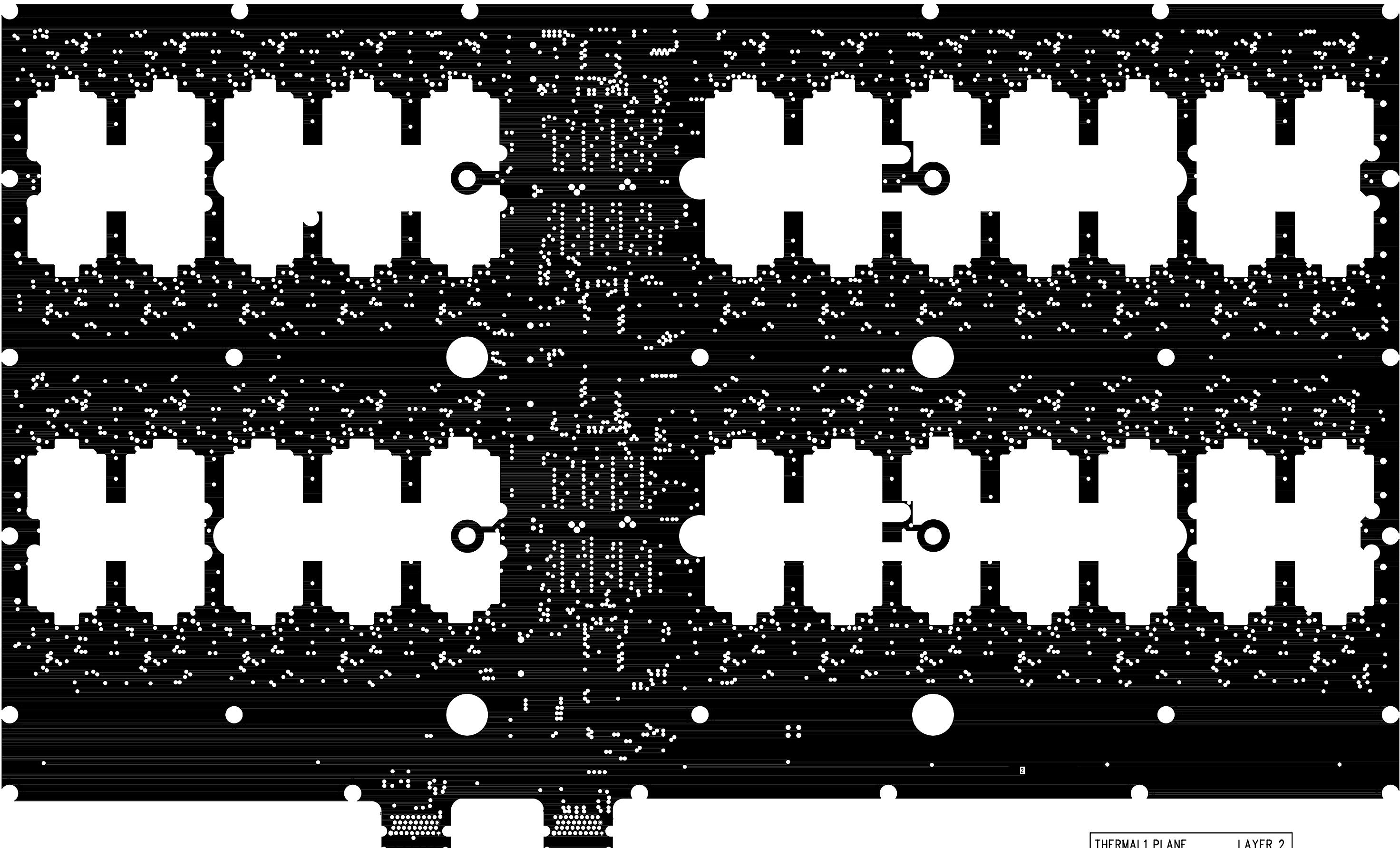
ALL DRILLS 0.008" TOLERANCE +/- 0.003" - 0.008"
ALL DRILLS 0.010" TOLERANCE +/- 0.003" - 0.010"



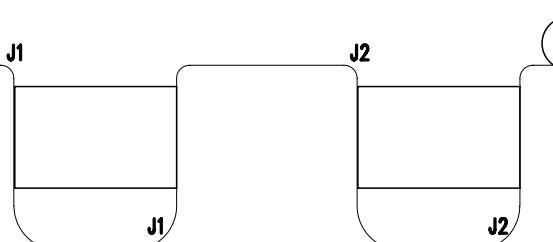
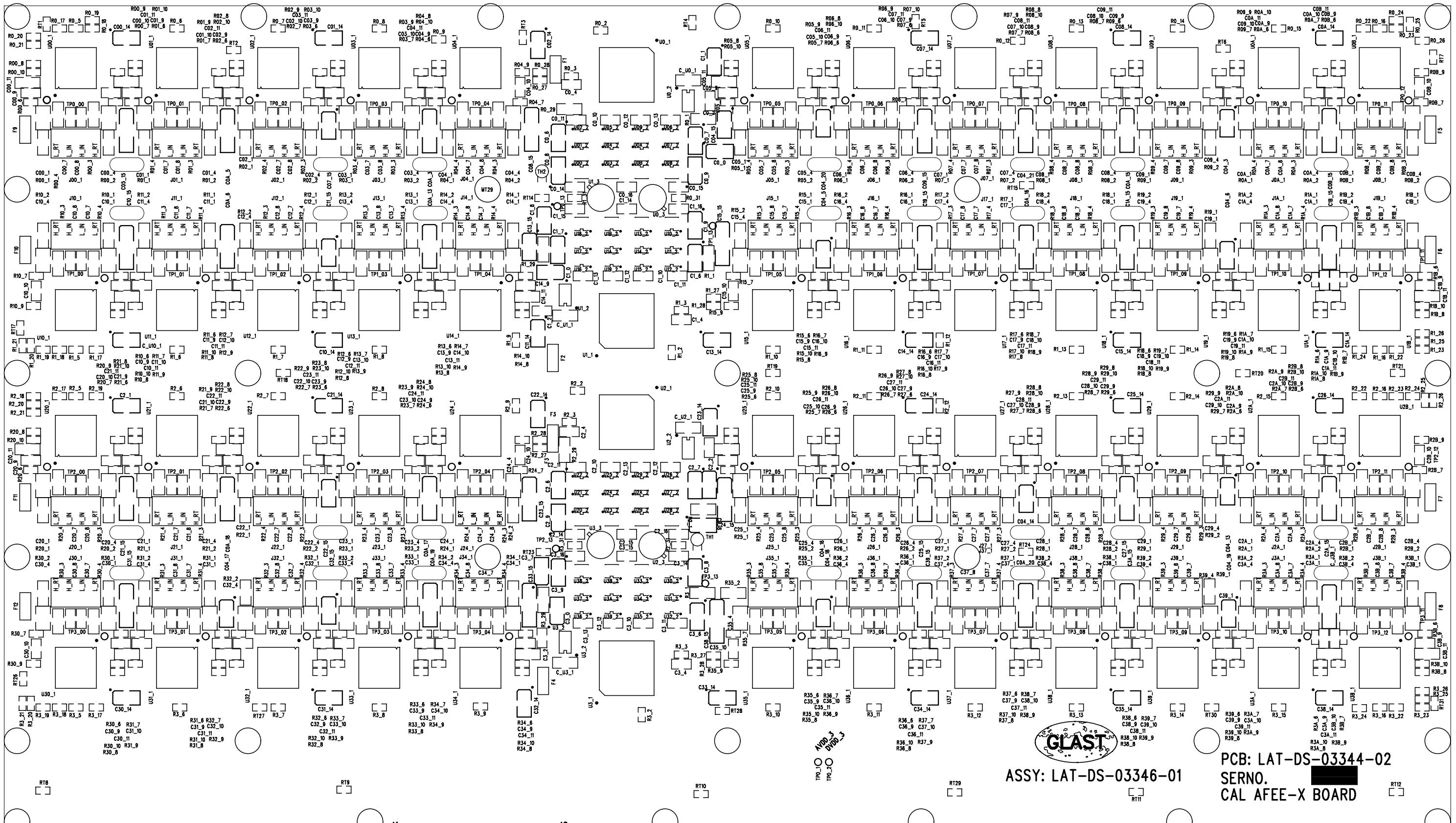
DETAIL "A"
(NOT DRAWN TO SCALE)



TOP SIDE		LAYER 1
GLAST CAL AFEE-X BOARD		
EBTech EVALUATION BOARD TECHNOLOGIES, INC. 3230 N. Colorado St., Suite 200 CHANDLER, AZ, 85225 U.S.A. INT+1-480-921-1520	9 APRIL 2004	
ENGR: J. AMPE DSNGR: A. KLOVENAS		LAT-DS-03344-02 SHT 5 OF 13



EBTech EVALUATION BOARD TECHNOLOGIES, INC. 3230 N. Colorado St., Suite 200 CHANDLER, AZ, 85225 U.S.A. INT+1-480-921-1520	THERMAL1 PLANE LAYER 2
9 APRIL 2004	GLAST CAL AFEE-X BOARD
ENGR: J. AMPE DSNGR: A. KLOVENAS	LAT-DS-03344-02 SHT 6 OF 13

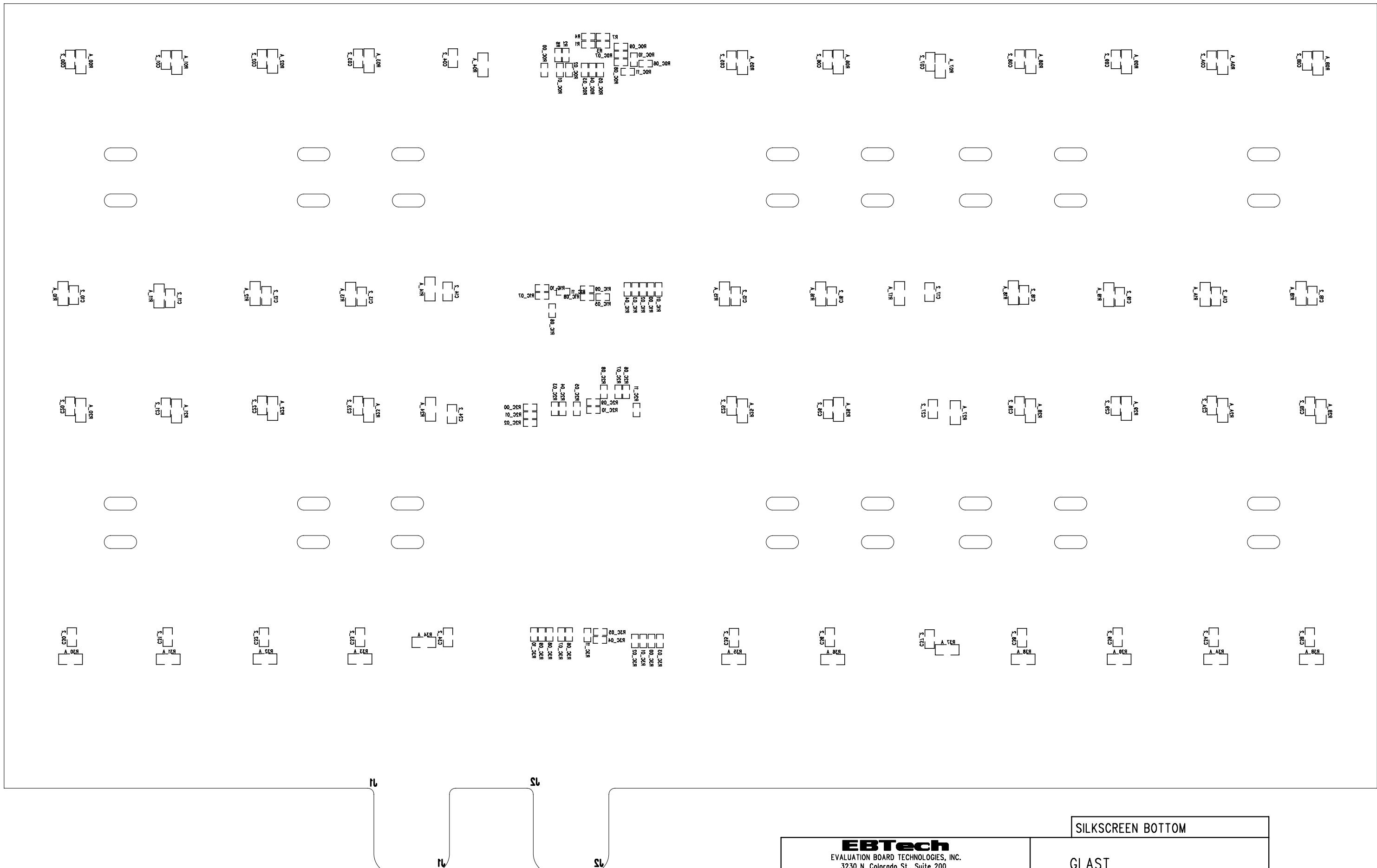


EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

9 APRIL 2004

ENGR: J. AMPE	SILKSCREEN TOP
DSNGR: A. KLOVENAS	GLAST
	CAL AFEET-X BOARD

LAT-DS-03344-02 SHT 3 OF 13



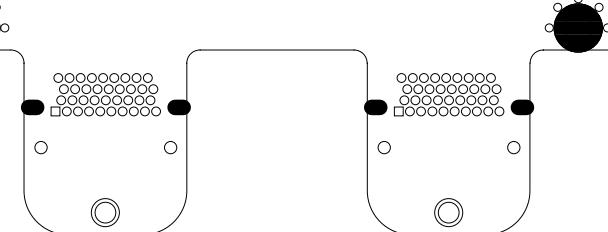
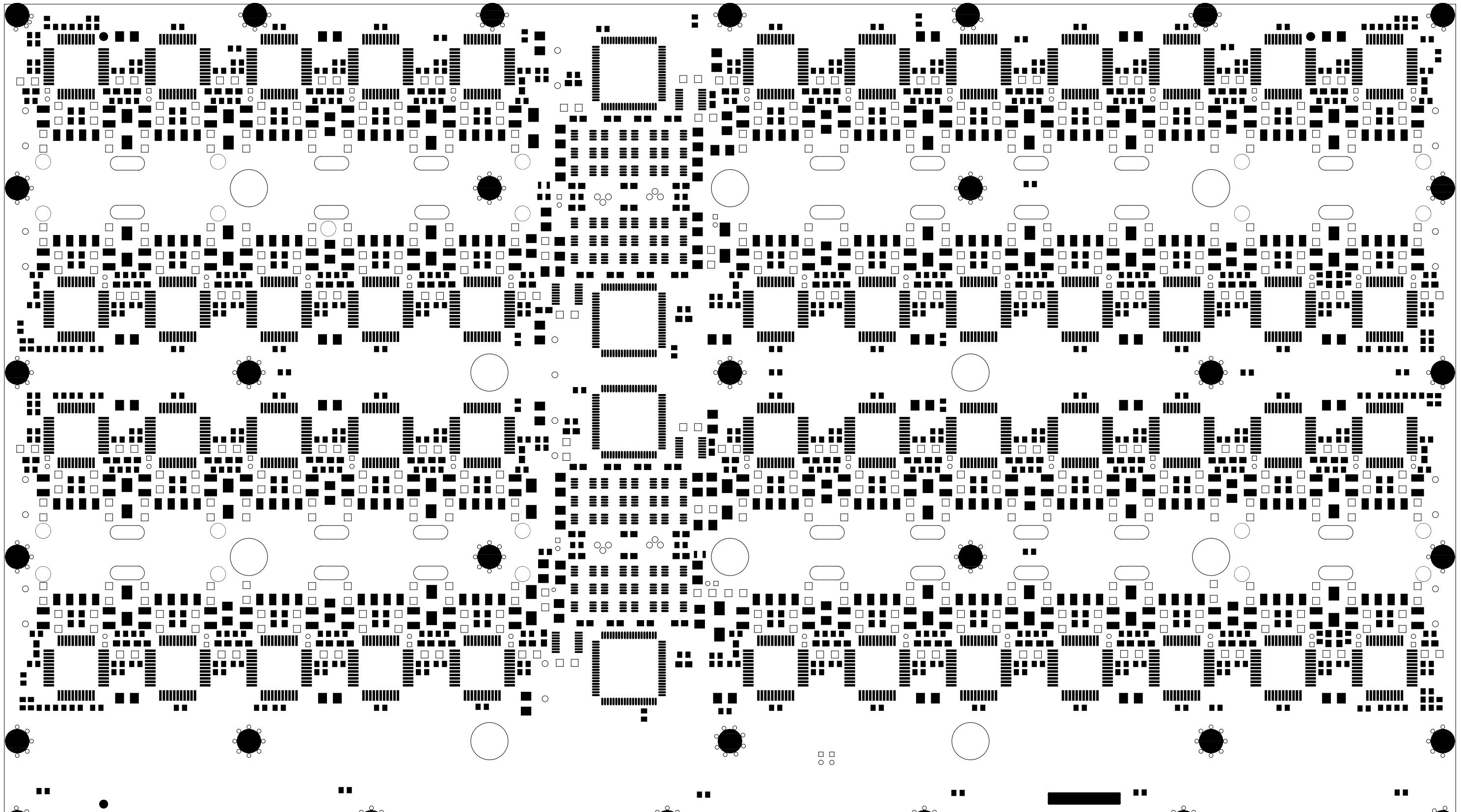
EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

ENGR: J. AMPE
DSNGR: A. KLOVENAS

SILKSCREEN BOTTOM

GLAST
CAL AFEE-X BOARD

LAT-DS-03344-02 SHT 12 OF 13

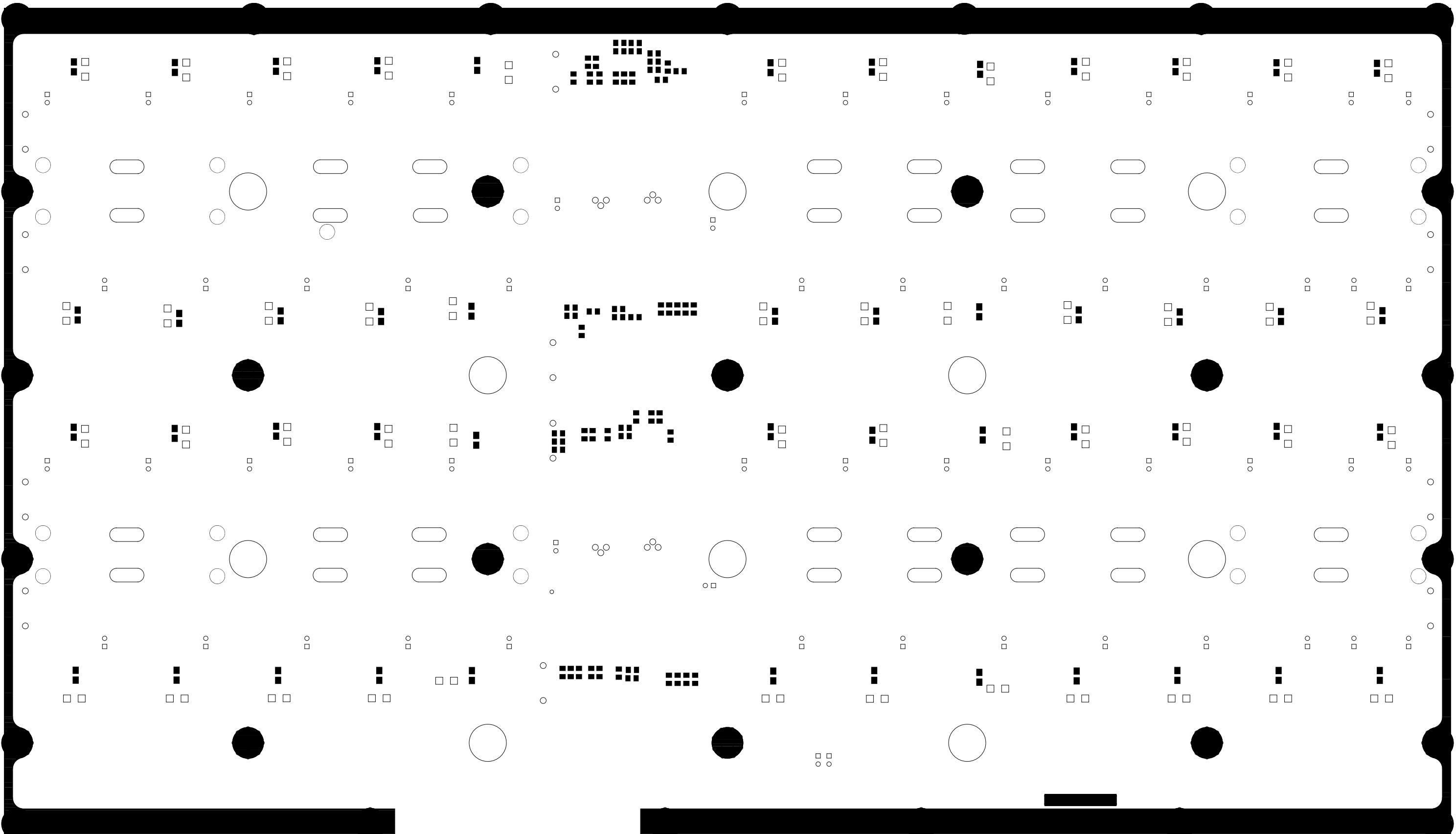


EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

9 APRIL 2004

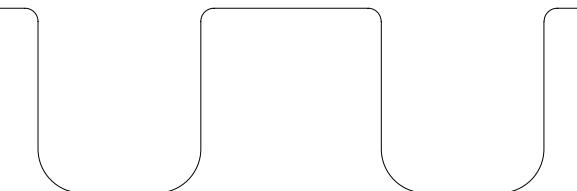
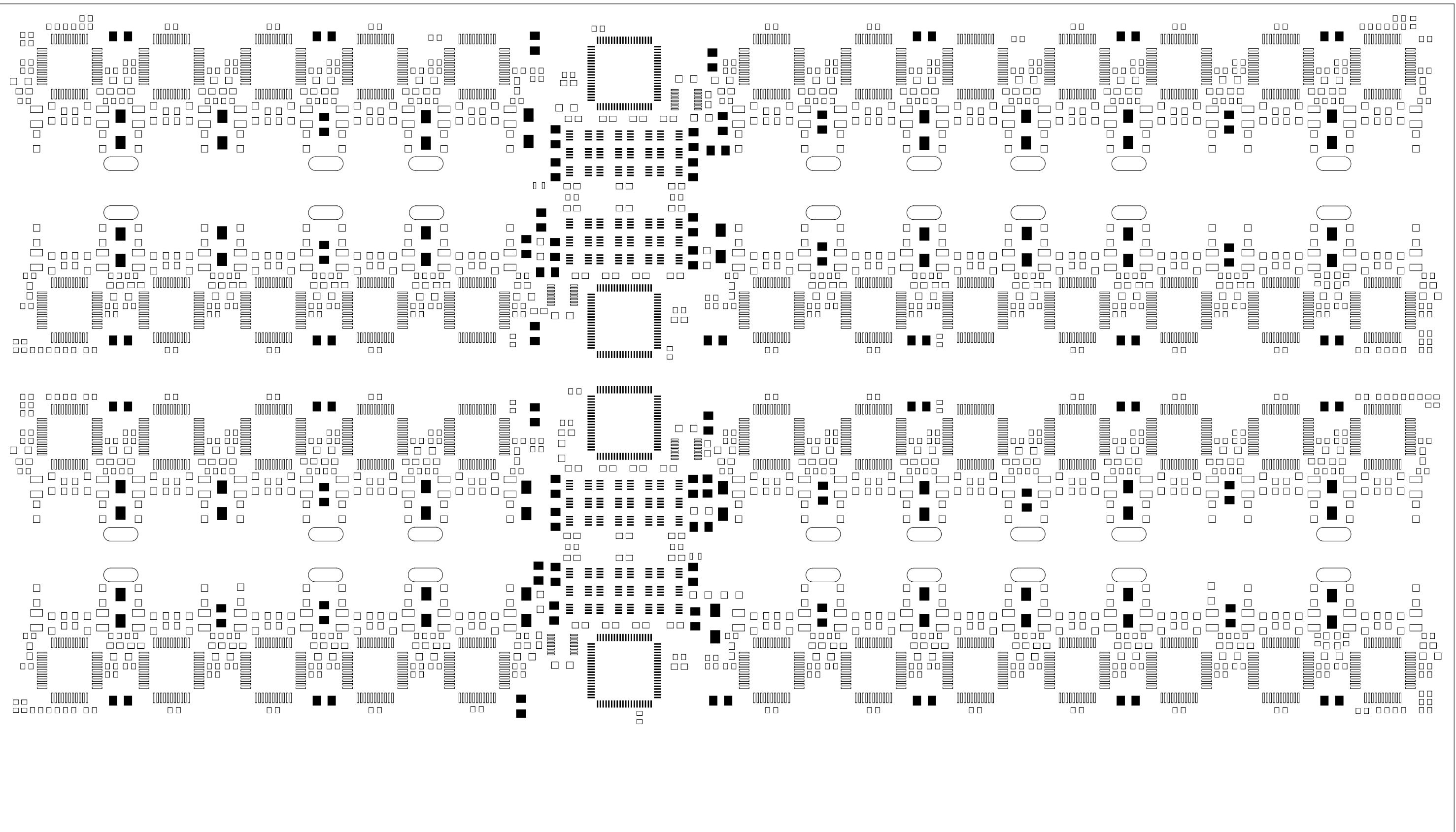
ENGR: J. AMPE
DSNGR: A. KLOVENAS

SOLDERMASK TOP	
GLAST CAL AFEE-X BOARD	
LAT-DS-03344-02	SHT 4 OF 13



EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520
9 APRIL 2004
ENGR: J. AMPE
DSNGR: A. KLOVENAS

SOLDERMASK BOTTOM
GLAST
CAL AFEE-X BOARD
LAT-DS-03344-02 SHT 13 OF 13



EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

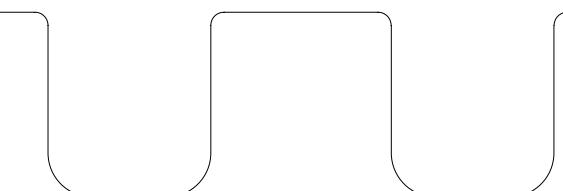
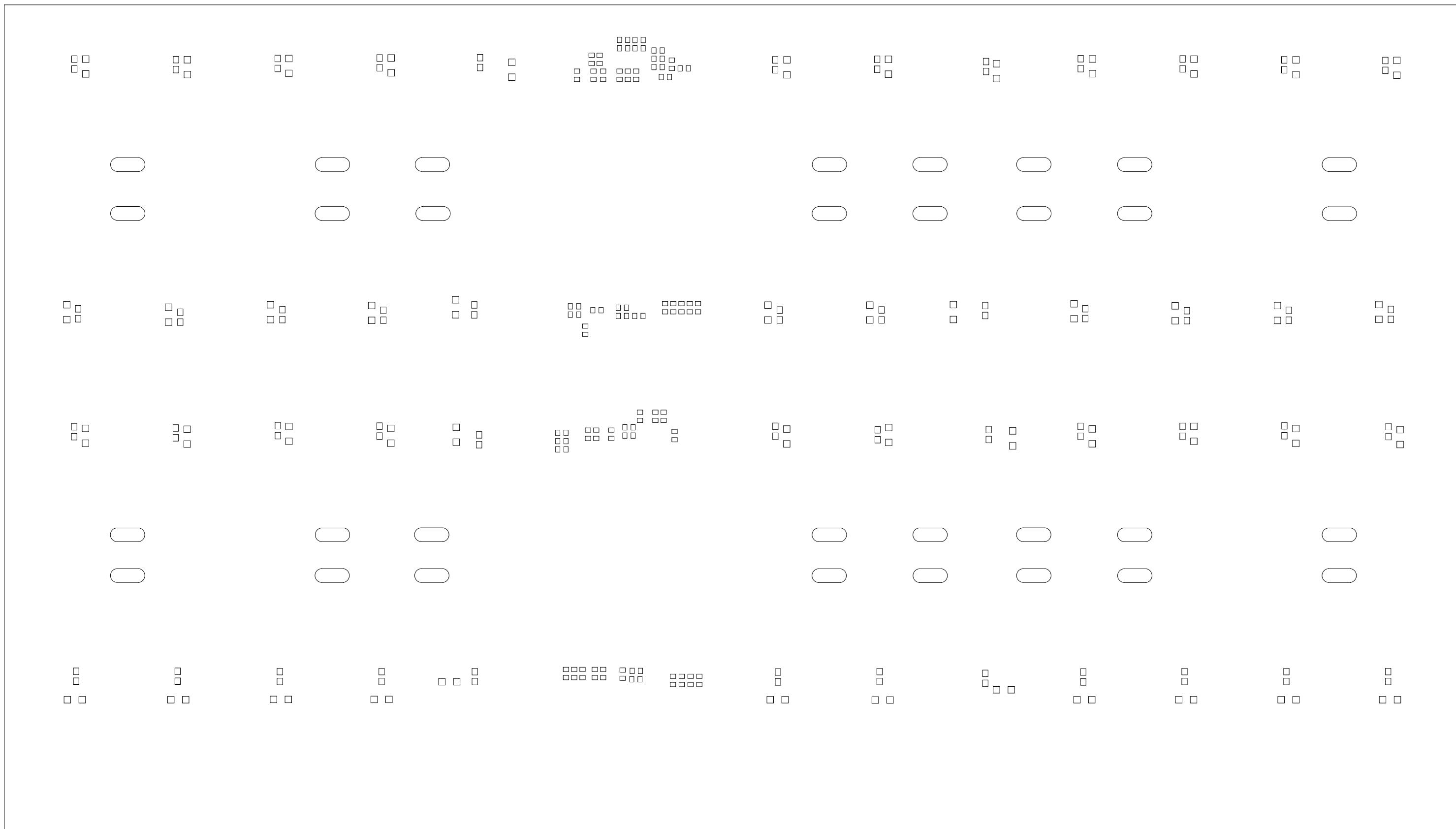
9 APRIL 2004

ENGR: J. AMPE
DSNGR: A. KLOVENAS

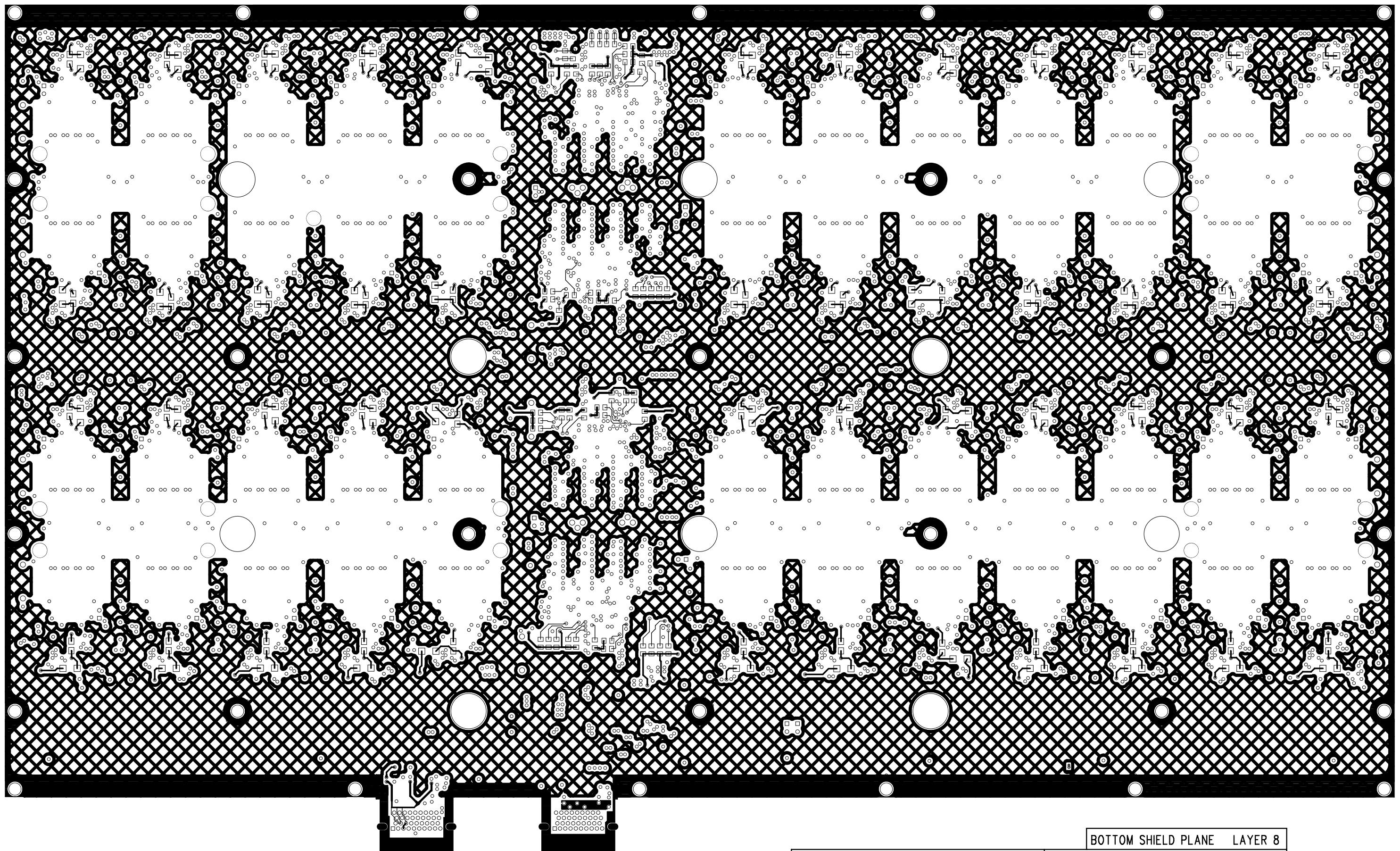
PASTE MASK TOP

GLAST
CAL AFEE-X BOARD

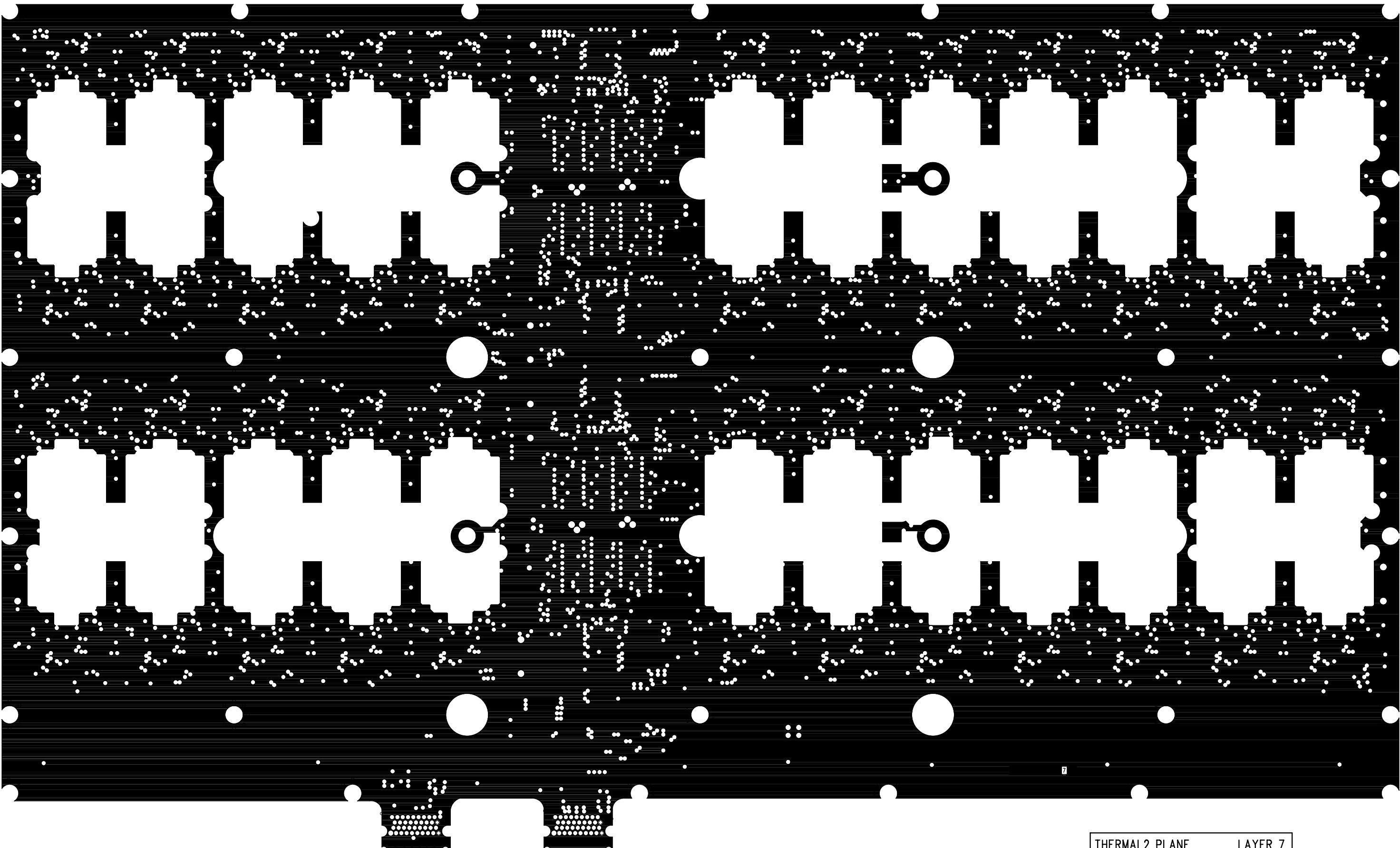
LAT-DS-03344-02 | SHT 2 OF 13



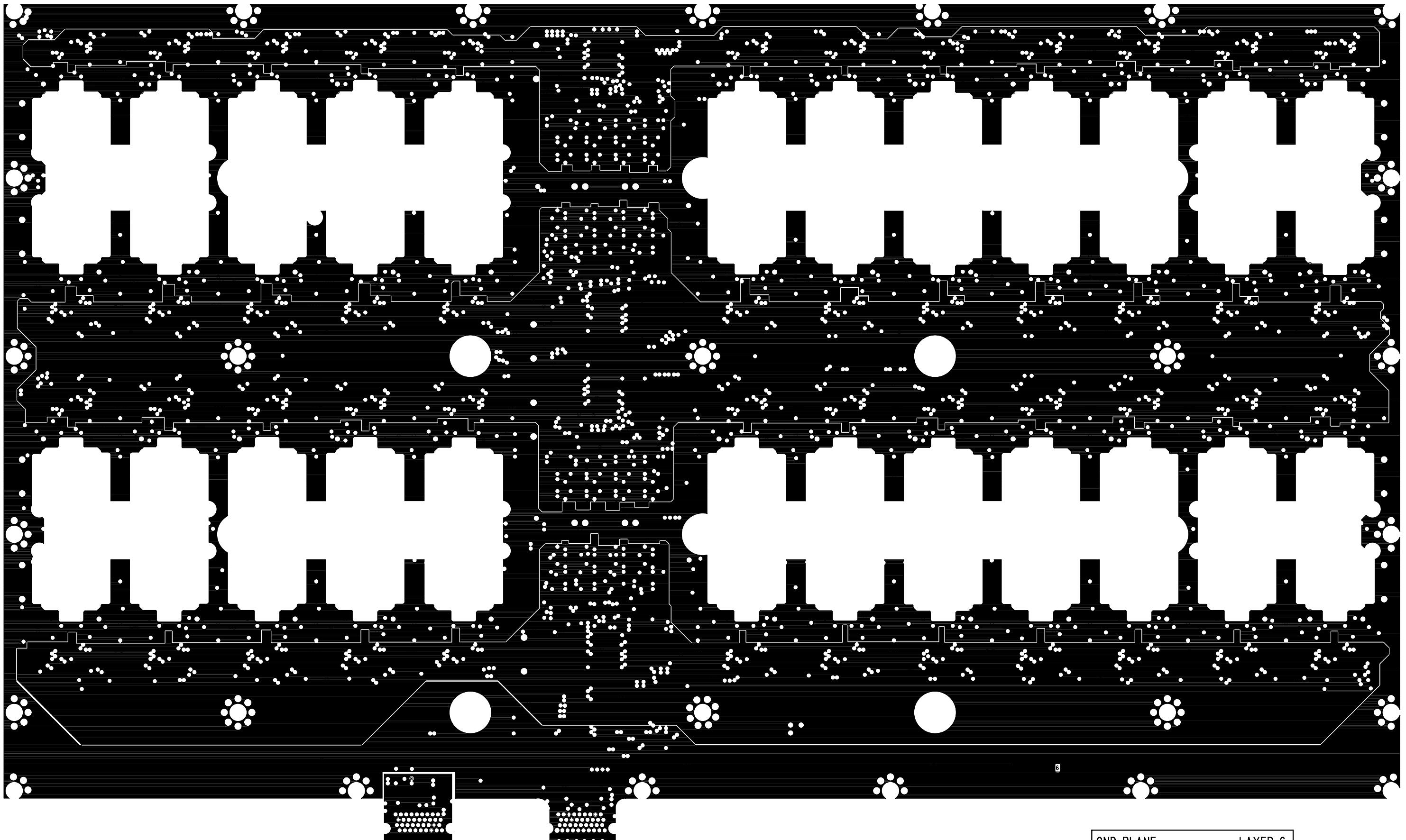
PASTE MASK BOTTOM	
EBTech EVALUATION BOARD TECHNOLOGIES, INC. 3230 N. Colorado St., Suite 200 CHANDLER, AZ, 85225 U.S.A. INT+1-480-921-1520	GLAST CAL AFEE-X BOARD
9 APRIL 2004	
ENGR: J. AMPE DSNGR: A. KLOVENAS	LAT-DS-03344-02 SHT 13 OF 13



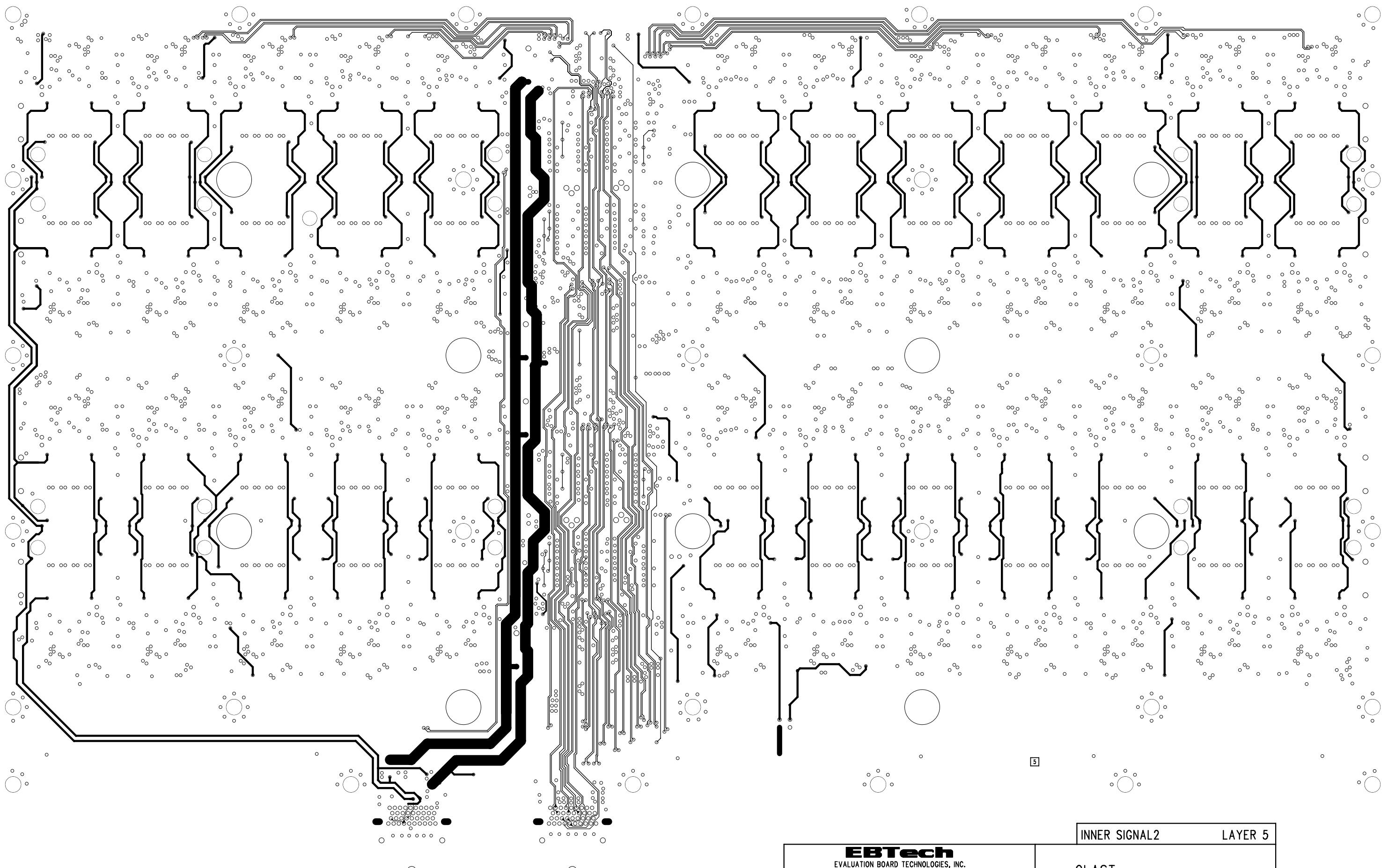
EBTech	
EVALUATION BOARD TECHNOLOGIES, INC.	
3230 N. Colorado St., Suite 200	
CHANDLER, AZ, 85225 U.S.A.	
INT+1-480-921-1520	
9 APRIL 2004	
ENGR: J. AMPE	BOTTOM SHIELD PLANE LAYER 8
DSNGR: A. KLOVENAS	GLAST CAL AFEE-X BOARD
LAT-DS-03344-02	SHT 12 OF 13



THERMAL2 PLANE LAYER 7	
EBTech EVALUATION BOARD TECHNOLOGIES, INC. 3230 N. Colorado St., Suite 200 CHANDLER, AZ, 85225 U.S.A. INT+1-480-921-1520	GLAST CAL AFEE-X BOARD
9 APRIL 2004	
ENGR: J. AMPE DSNGR: A. KLOVENAS	LAT-DS-03344-02 SHT 11 OF 13



GND PLANE		LAYER 6
GLAST CAL AFEE-X BOARD		
EBTech EVALUATION BOARD TECHNOLOGIES, INC. 3230 N. Colorado St., Suite 200 CHANDLER, AZ, 85225 U.S.A. INT+1-480-921-1520	9 APRIL 2004	
ENGR: J. AMPE DSNGR: A. KLOVENAS		LAT-DS-03344-02 SHT 10 OF 13
		GND PLANE (L6)

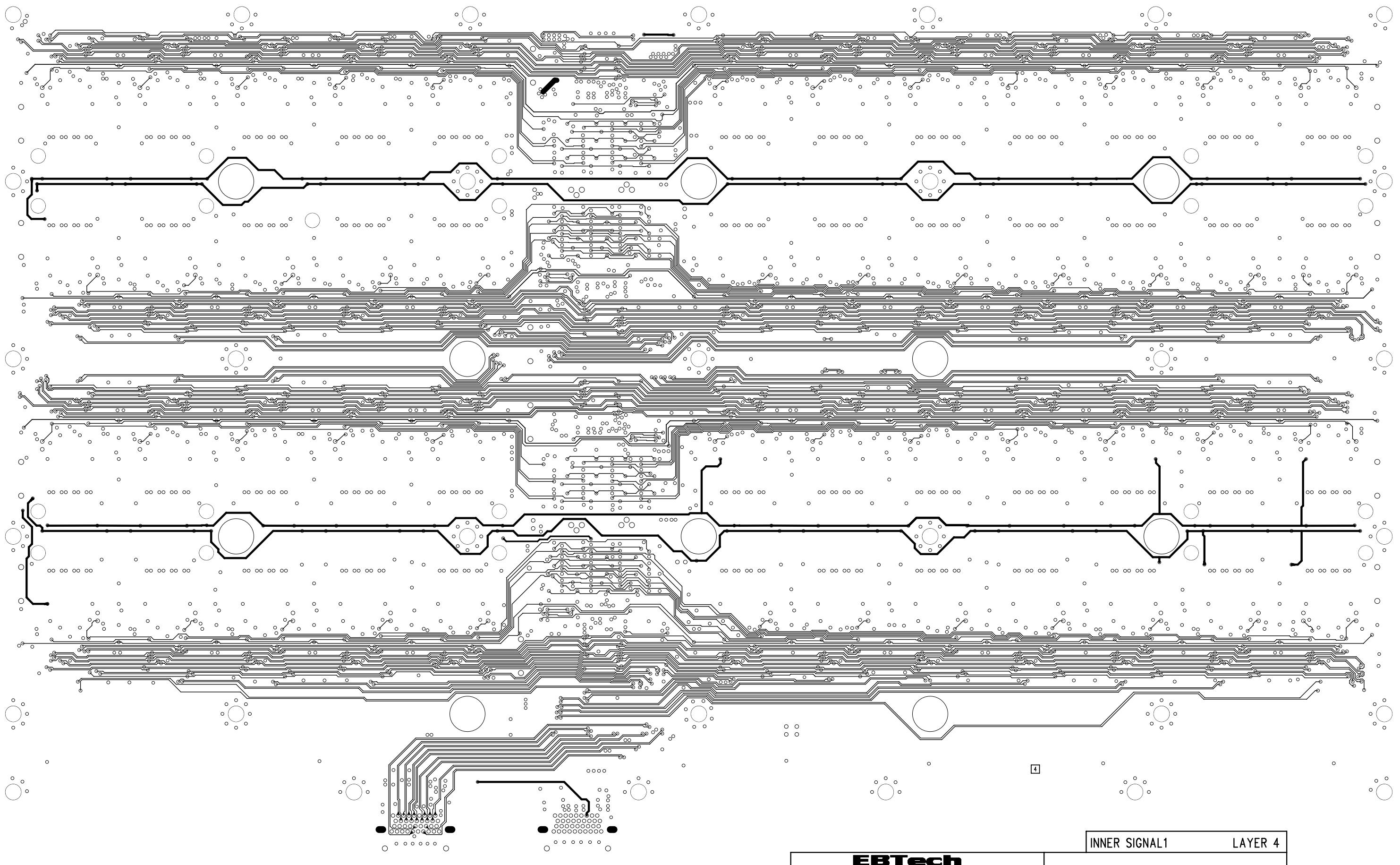


EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

9 APRIL 2004

ENGR: J. AMPE
DSNGR: A. KLOVENAS

INNER SIGNAL2	LAYER 5
GLAST CAL AFEE-X BOARD	
LAT-DS-03344-02 SHT 9 OF 13	



EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520

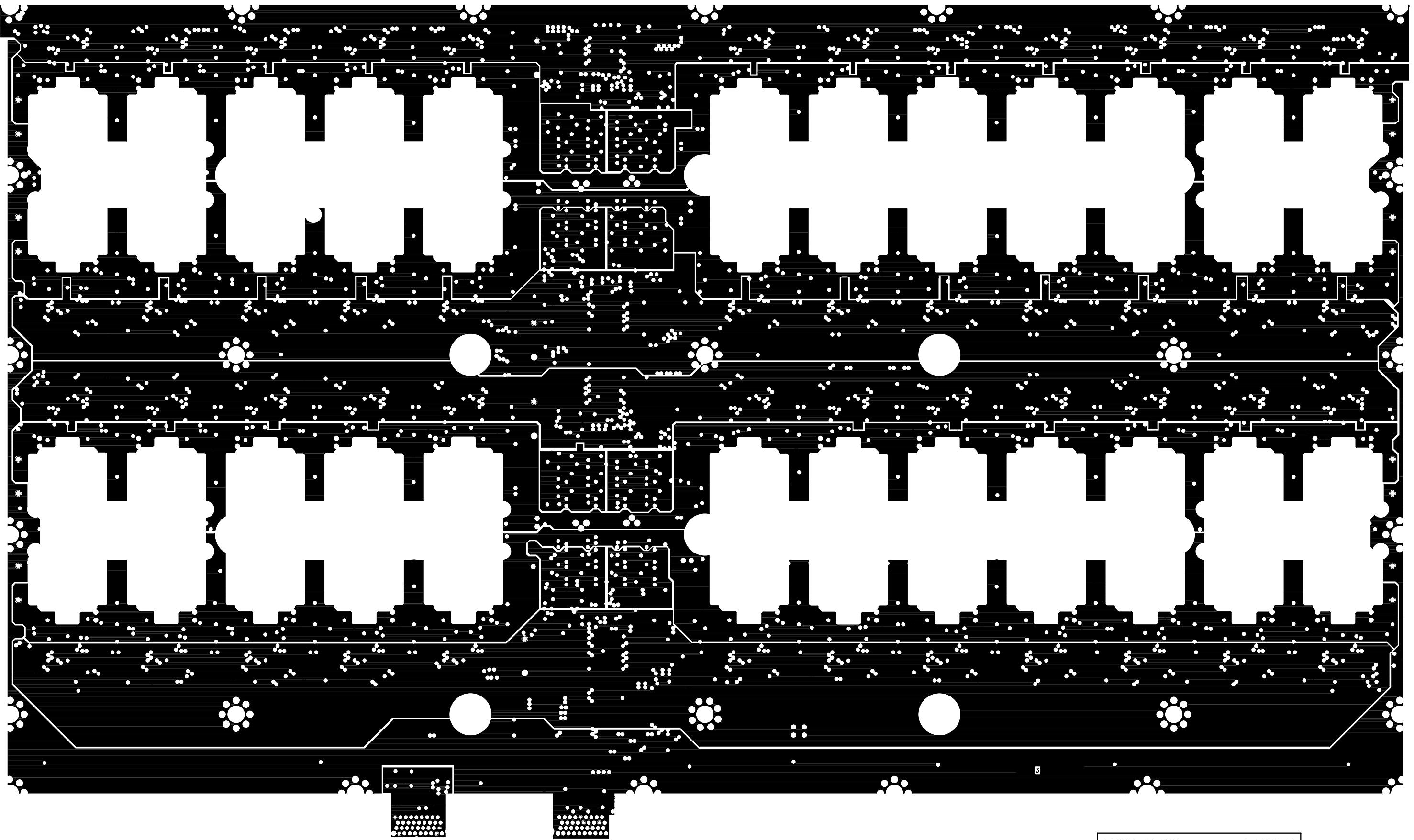
9 APRIL 2004

ENGR: J. AMPE
DSNGR: A. KLOVENAS

INNER SIGNAL1 LAYER 4

GLAST
CAL AFEE-X BOARD

LAT-DS-03344-02 SHT 8 OF 13



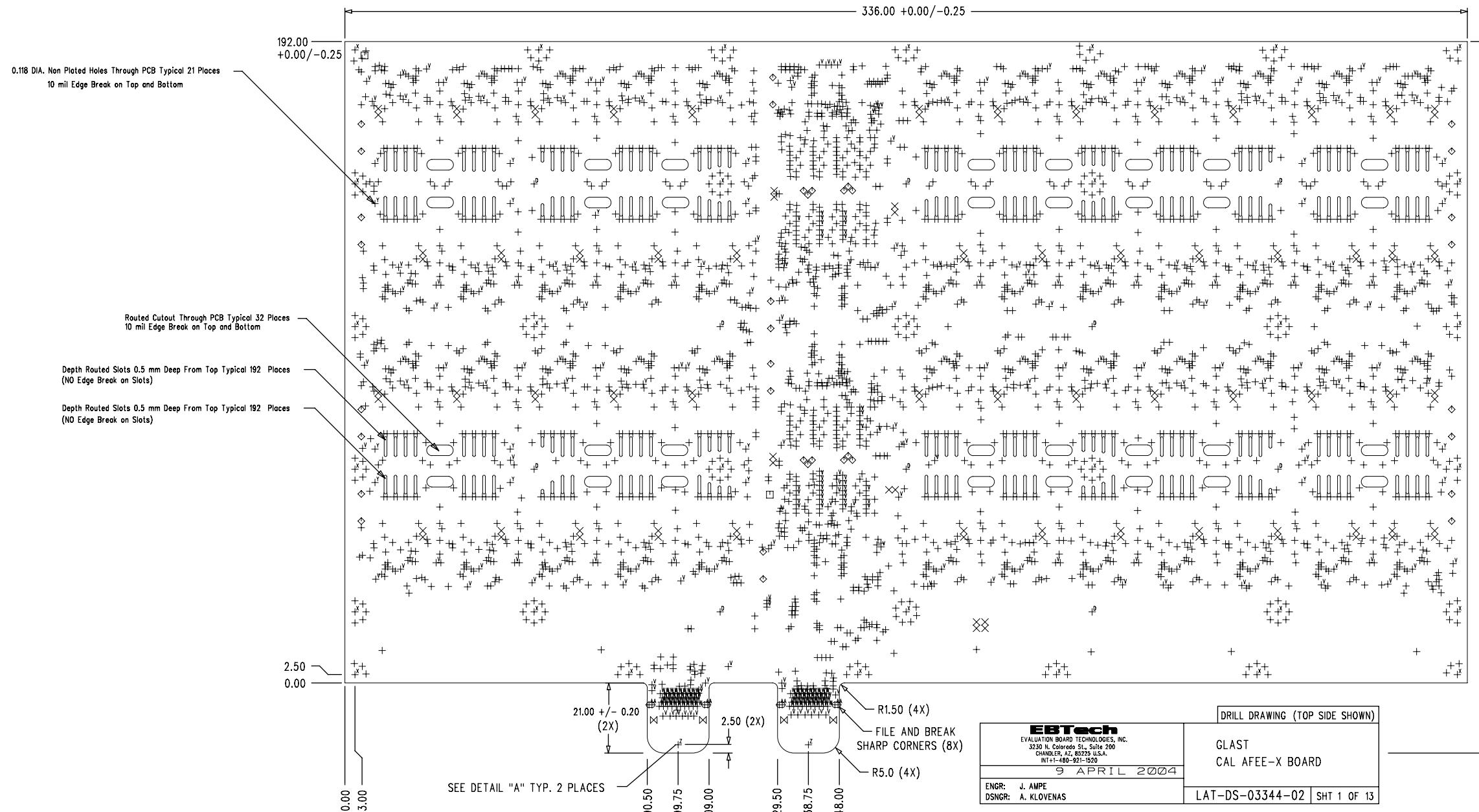
EBTech
EVALUATION BOARD TECHNOLOGIES, INC.
3230 N. Colorado St., Suite 200
CHANDLER, AZ, 85225 U.S.A.
INT+1-480-921-1520
9 APRIL 2004

ENGR: J. AMPE
DSNGR: A. KLOVENAS

POWER PLANE LAYER 3

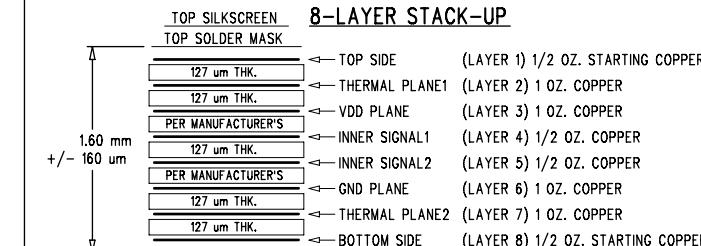
GLAST
CAL AFEE-X BOARD

LAT-DS-03344-02 SHT 7 OF 13 VDD PLANE (L3)



NOTES: (UNLESS OTHERWISE SPECIFIED) ALL DIMENSIONS ARE IN MILLIMETERS.

- FABRICATE PCB IN ACCORDANCE WITH CAL AFEE PROCUREMENT SPECIFICATION LAT-DS-01127-01, USING MASTER ARTWORKS LAT-DS-03344-02 DATED 9-APRIL-2004.
- BOARD LAYERS = 8.
- OVERALL FINISHED THICKNESS 1.60mm +/- 0.16mm.
- MATERIAL: EPOXY GLASS, POLYIMIDE.
- SIZES IN DRILL CHART ARE FINISHED HOLE DIAMETERS IN MILLIMETERS.
- SOLDER MASK BOTH SIDES SMOBC, DRY FILM, COLOR GREEN.
- SILKSCREEN COLOR WHITE, LOW OUTGASSING.
- MIN. CONDUCTOR WIDTH/SPACING 0.10mm / 0.10mm.
- MIN. EXTERNAL AND INTERNAL ANNULAR RING 0.002 INCH.
- FABRICATOR TO PULL ANY EXPOSED COPPER 0.020" IN FROM BOARD EDGE.
- ALL EXPOSED COPPER FINISHED HASL, MAX. 0.002" THICK SOLDER.
- CONTROLLED DEPTH ROUTING MUST MAINTAIN MINIMUM 0.5mm (20 MIL) CLEARANCE FROM TOPSIDE COPPER.



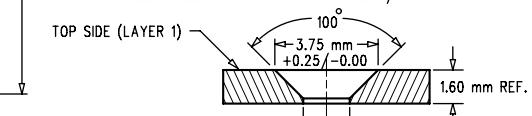
1.60 mm +/- 160 um

213.00 REF.

SIZE	QTY	SYM	PLTD
10	3382	+	PLTD
16	116	X	PLTD
20	2	□	PLTD
31	36	◊	PLTD
50	4	☒	NPLTD
64	8	A	NPLTD
334.65	10	D	NPLTD
8	246	V	PLTD
17	74	W	PLTD
118.11	31	X	NPLTD
118	21	Y	NPLTD
86.61	2	Z	NPLTD
64 x 100	4	A	NPLTD

==> +/- 0.05 mm

ALL DRILLS 0.008" TOLERANCE +/0.003" - 0.008"
ALL DRILLS 0.010" TOLERANCE +/0.003" - 0.010"



DETAIL "A"
(NOT DRAWN TO SCALE)