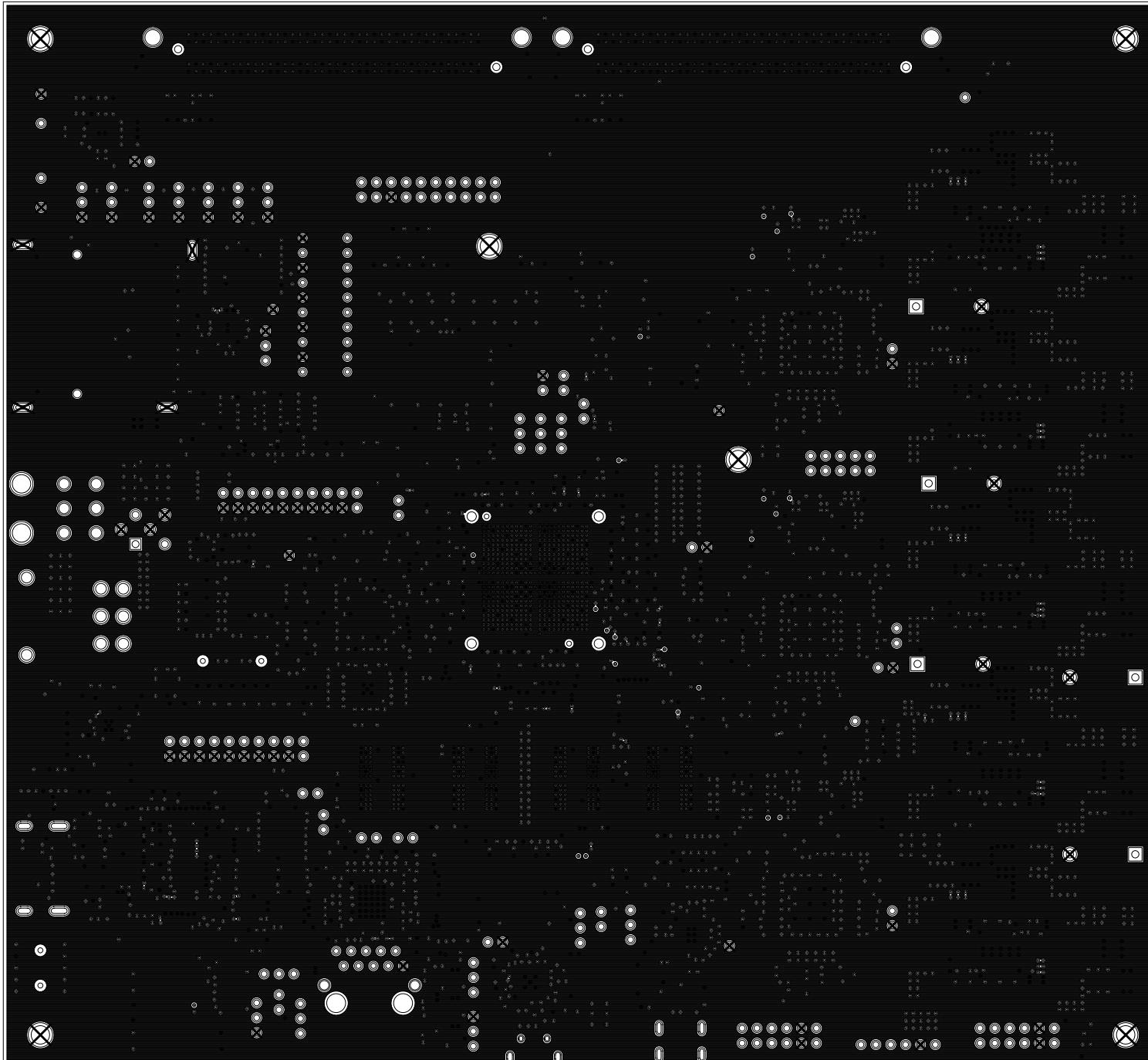


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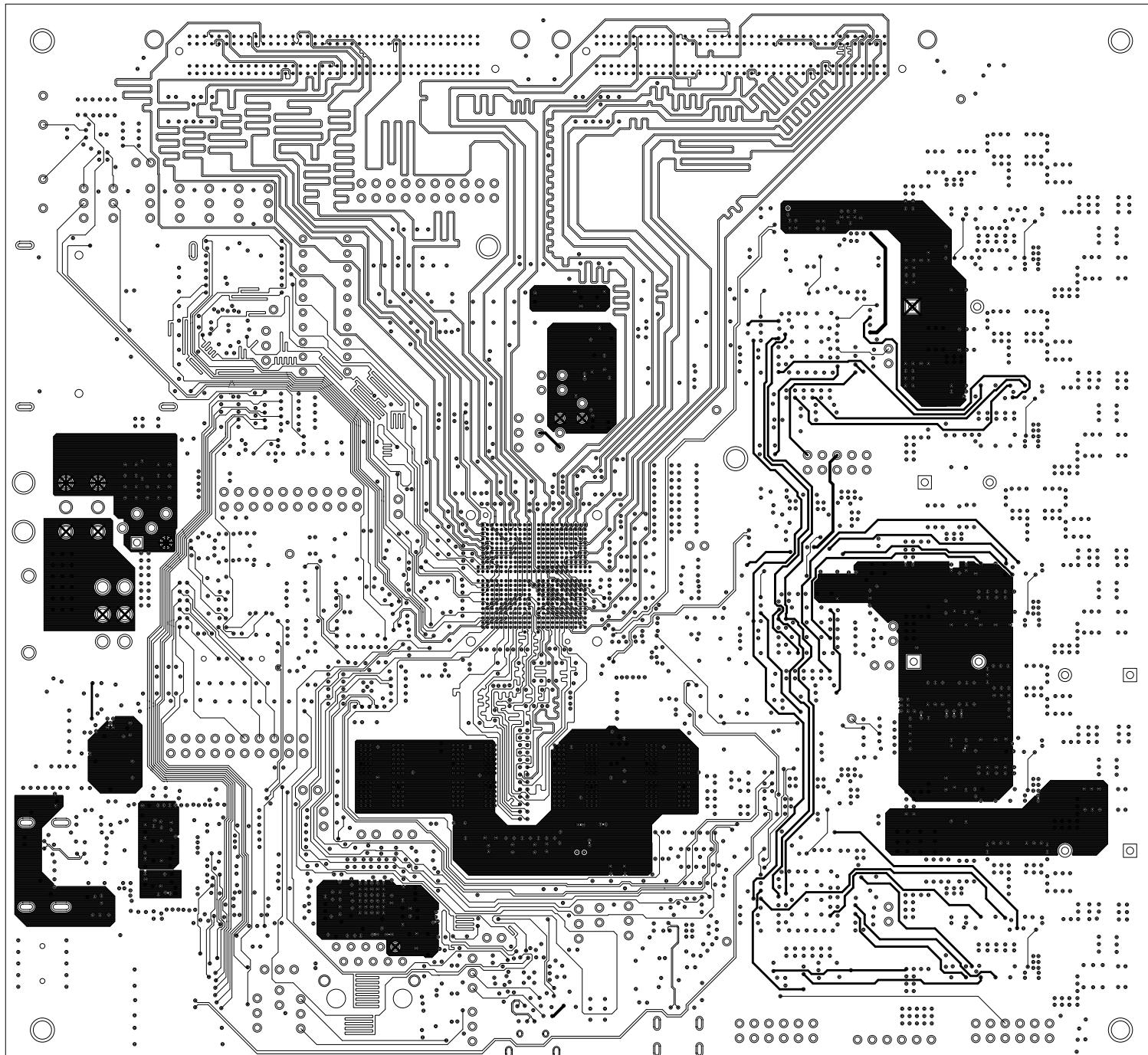
Layer: 01_TOP	Sheet: 01 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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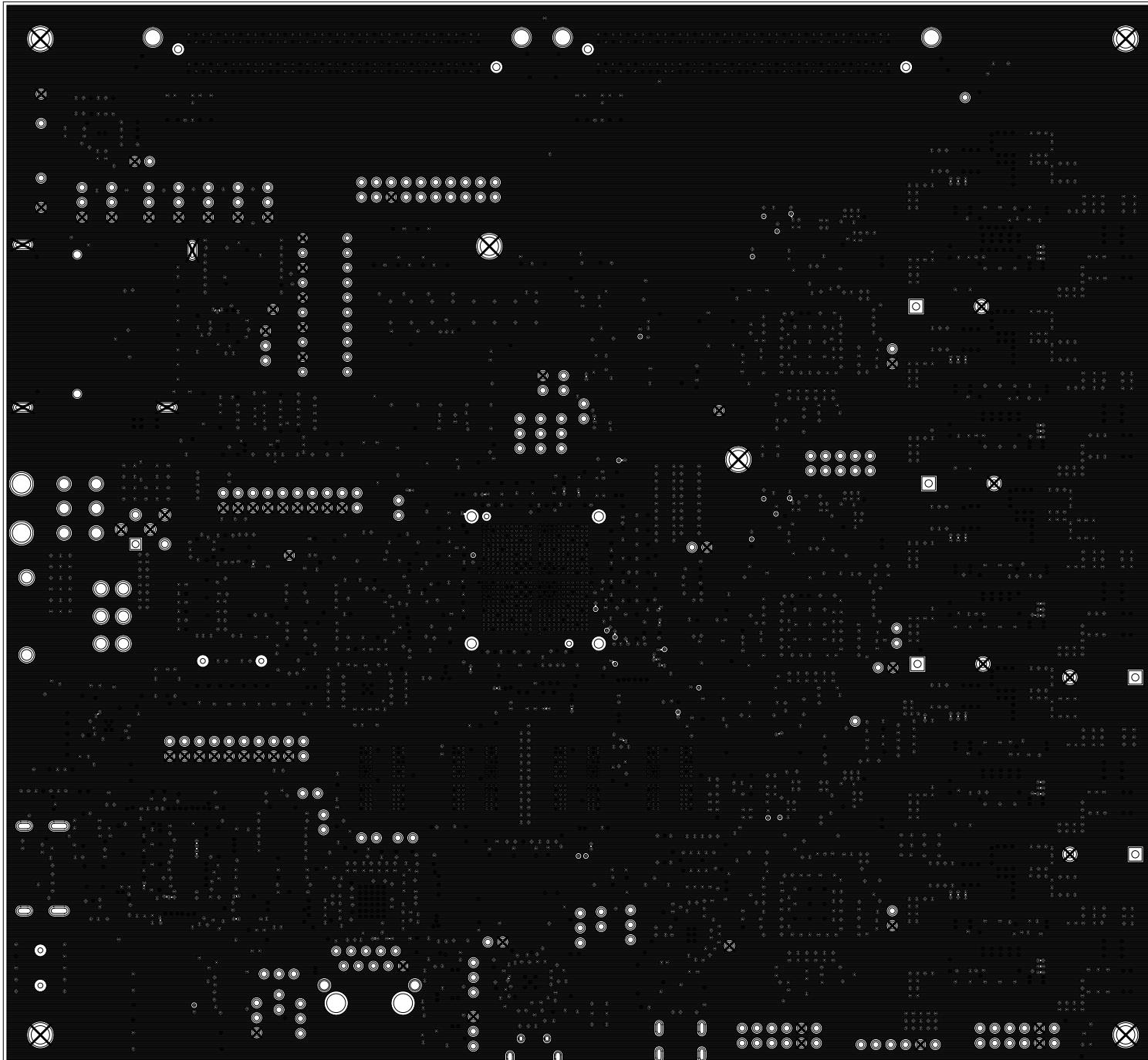
Layer: 02_GND1	Sheet: 02 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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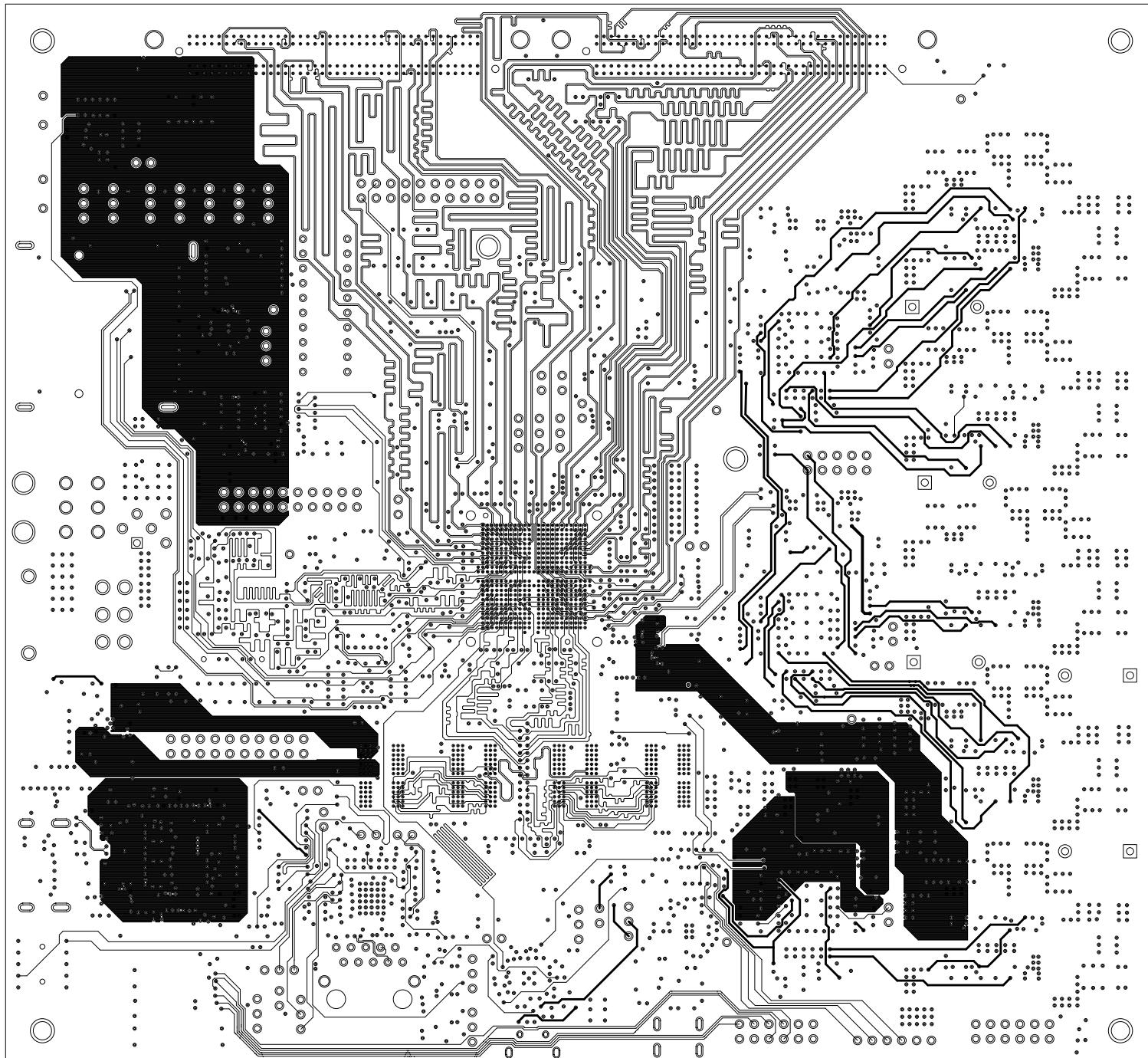
Layer: 03_SIG1	Sheet: 03 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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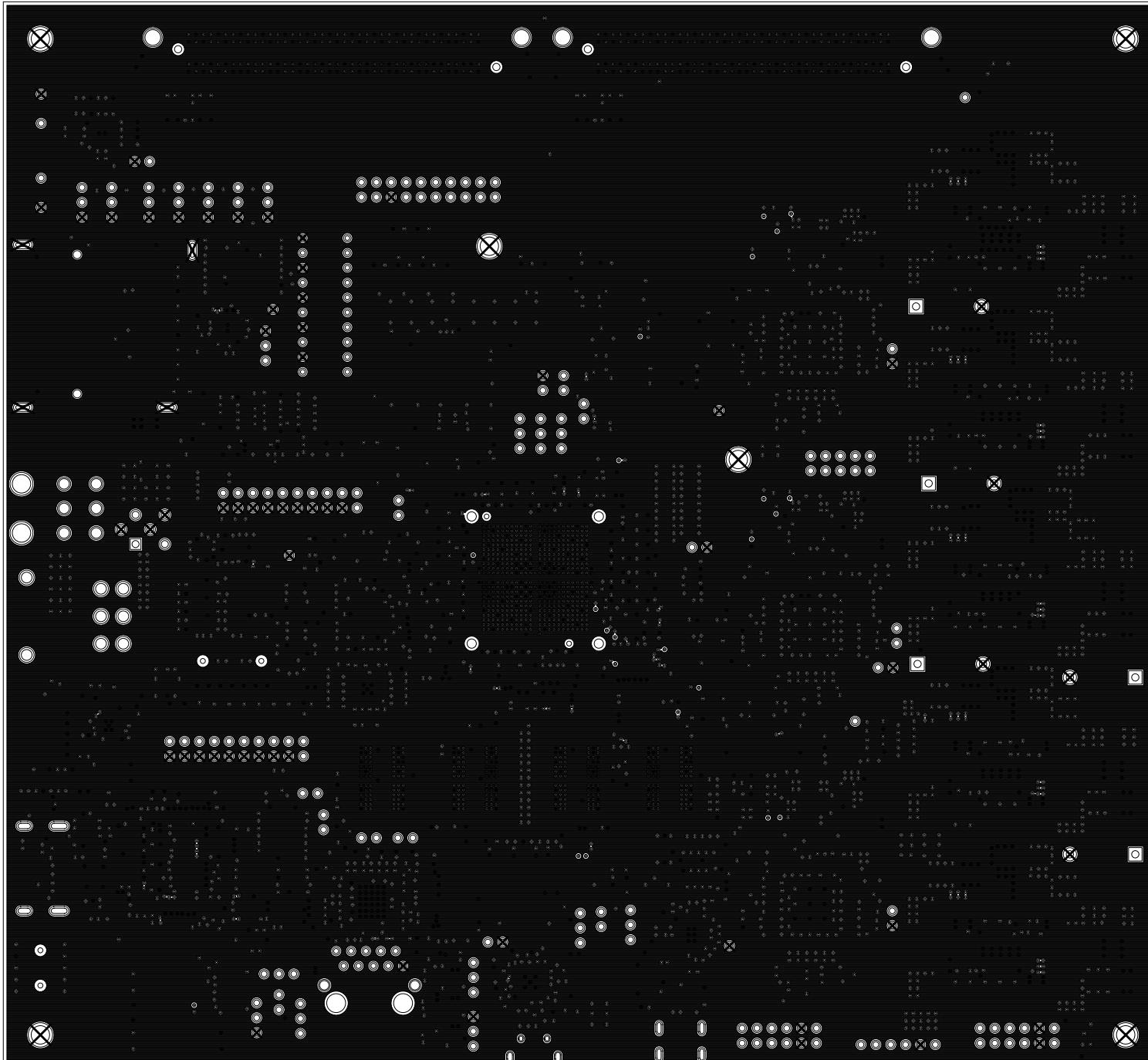
Layer: 04_GND2	Sheet: 04 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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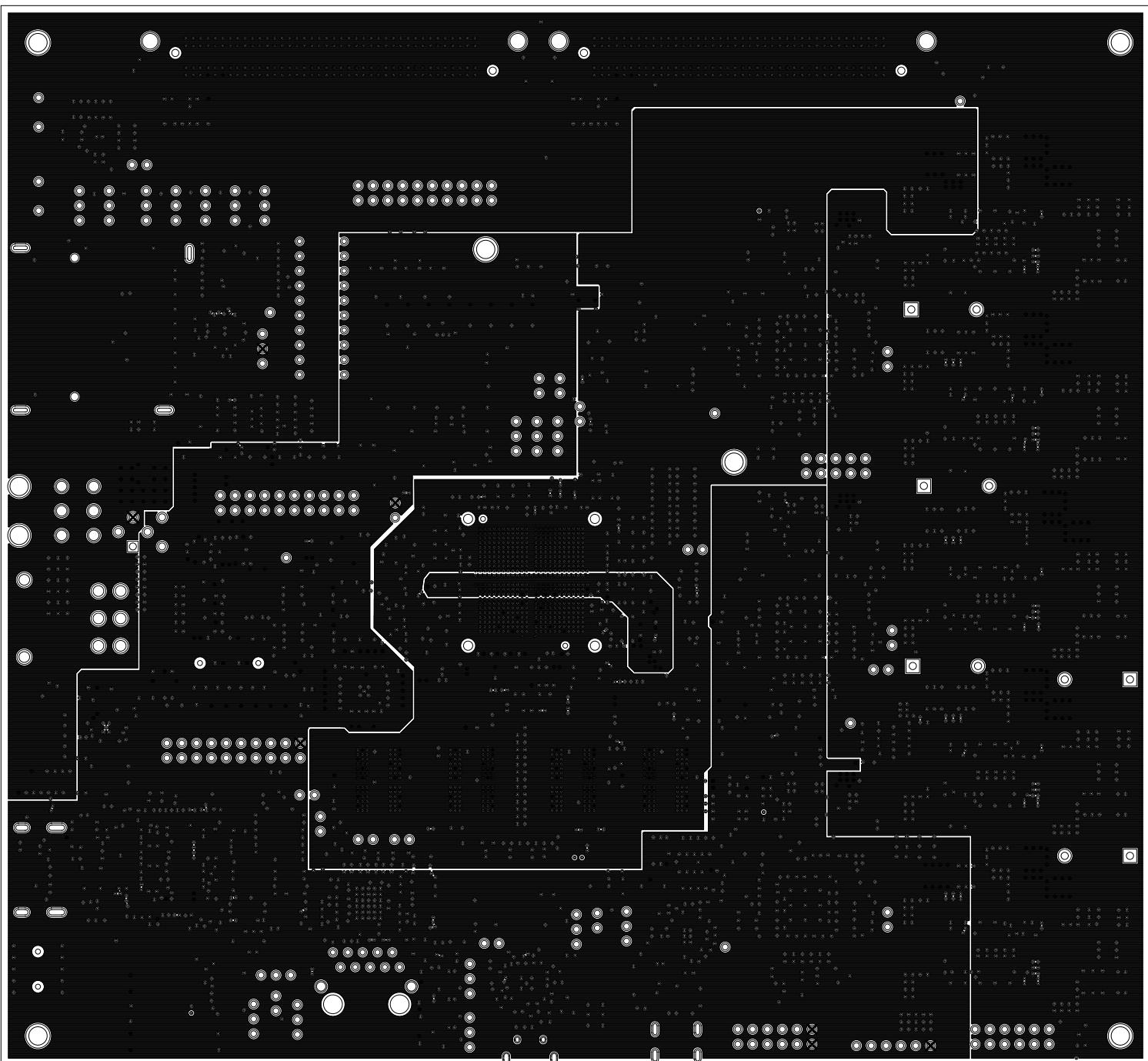
Layer: 05_SIG2	Sheet: 05 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013		LATEST MECHANICAL REV OR DATE: 09.27.2011	



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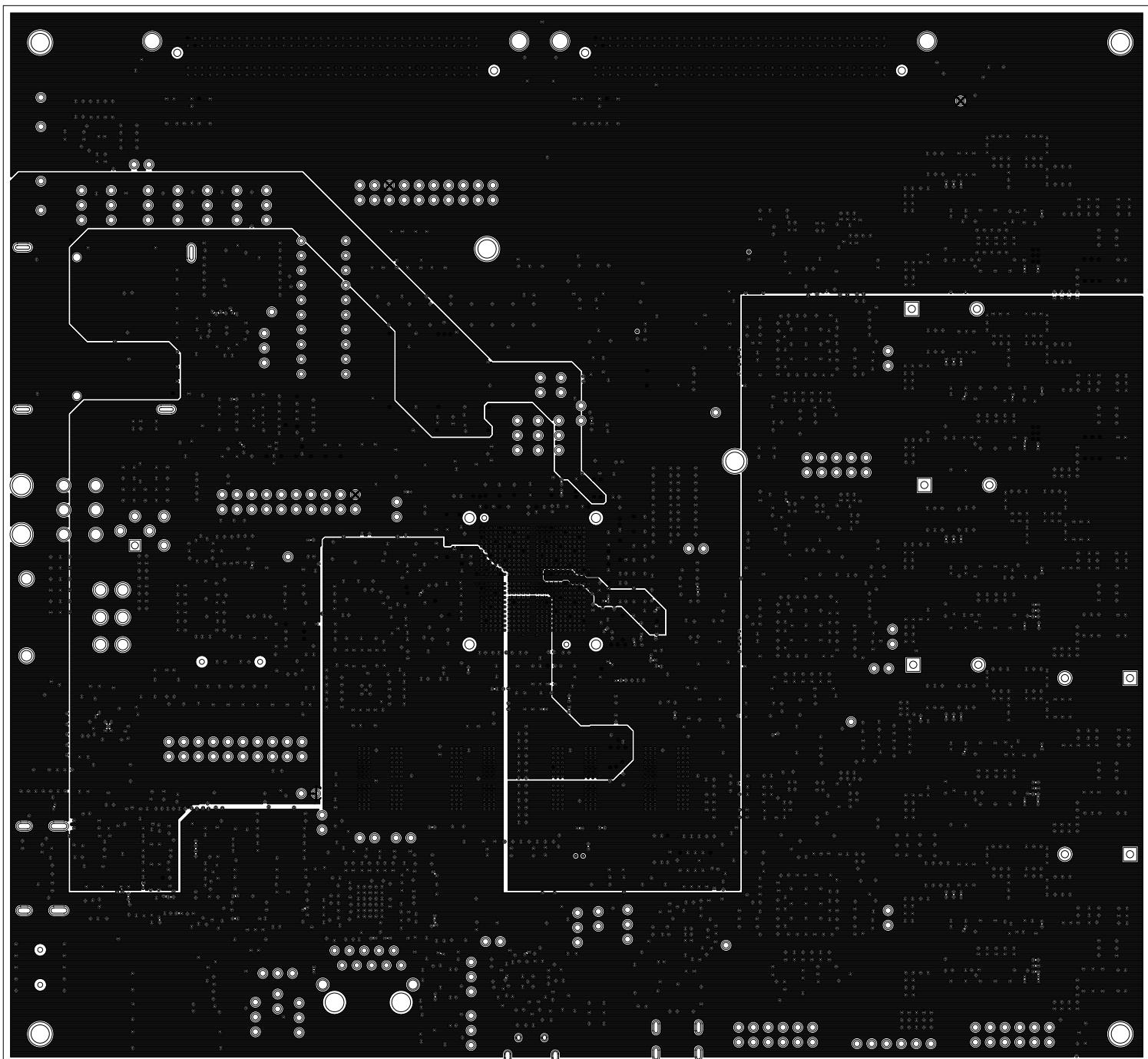
Layer: 06_GND3	Sheet: 06 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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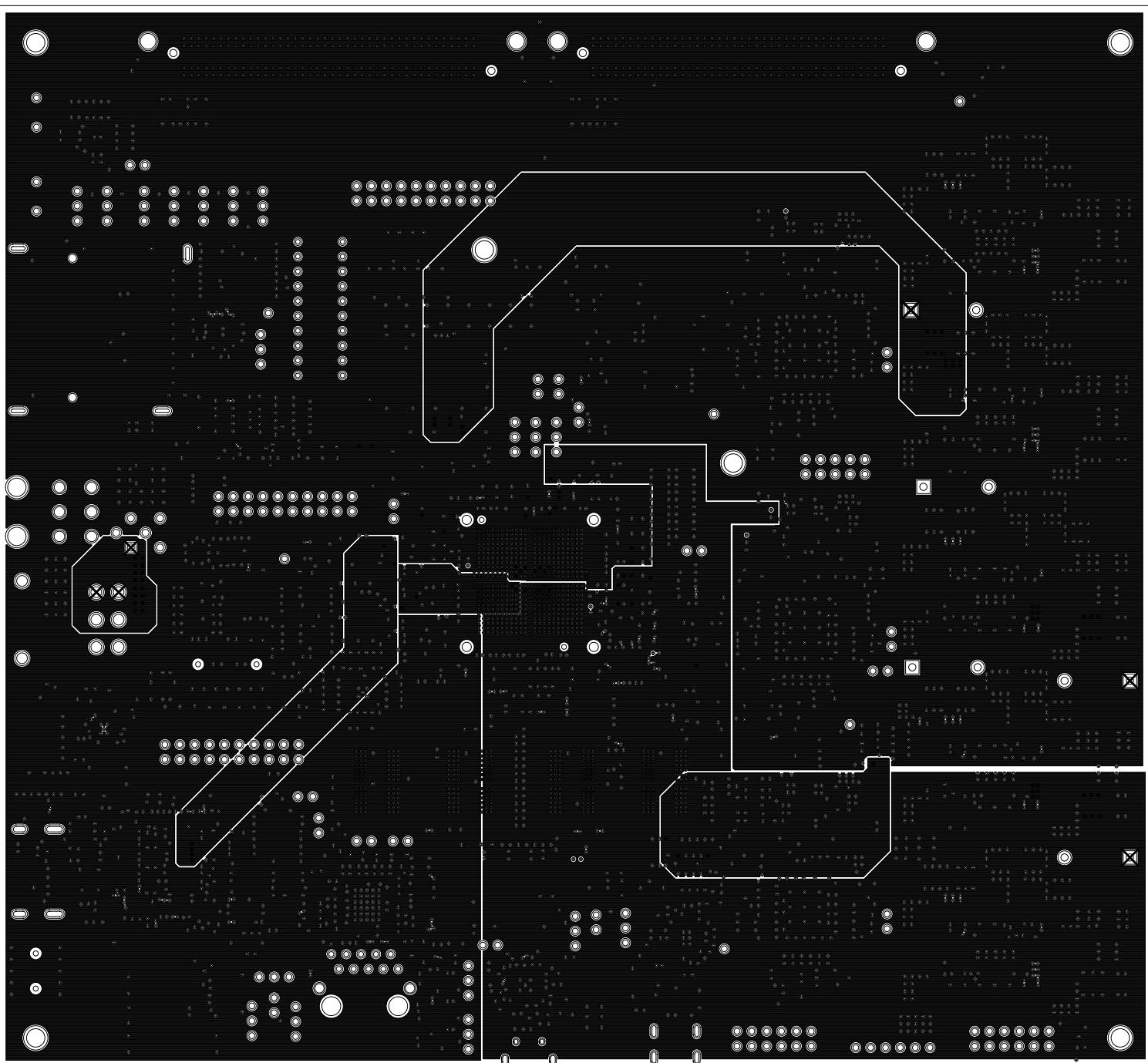
Layer: 07_PWR1	Sheet: 07 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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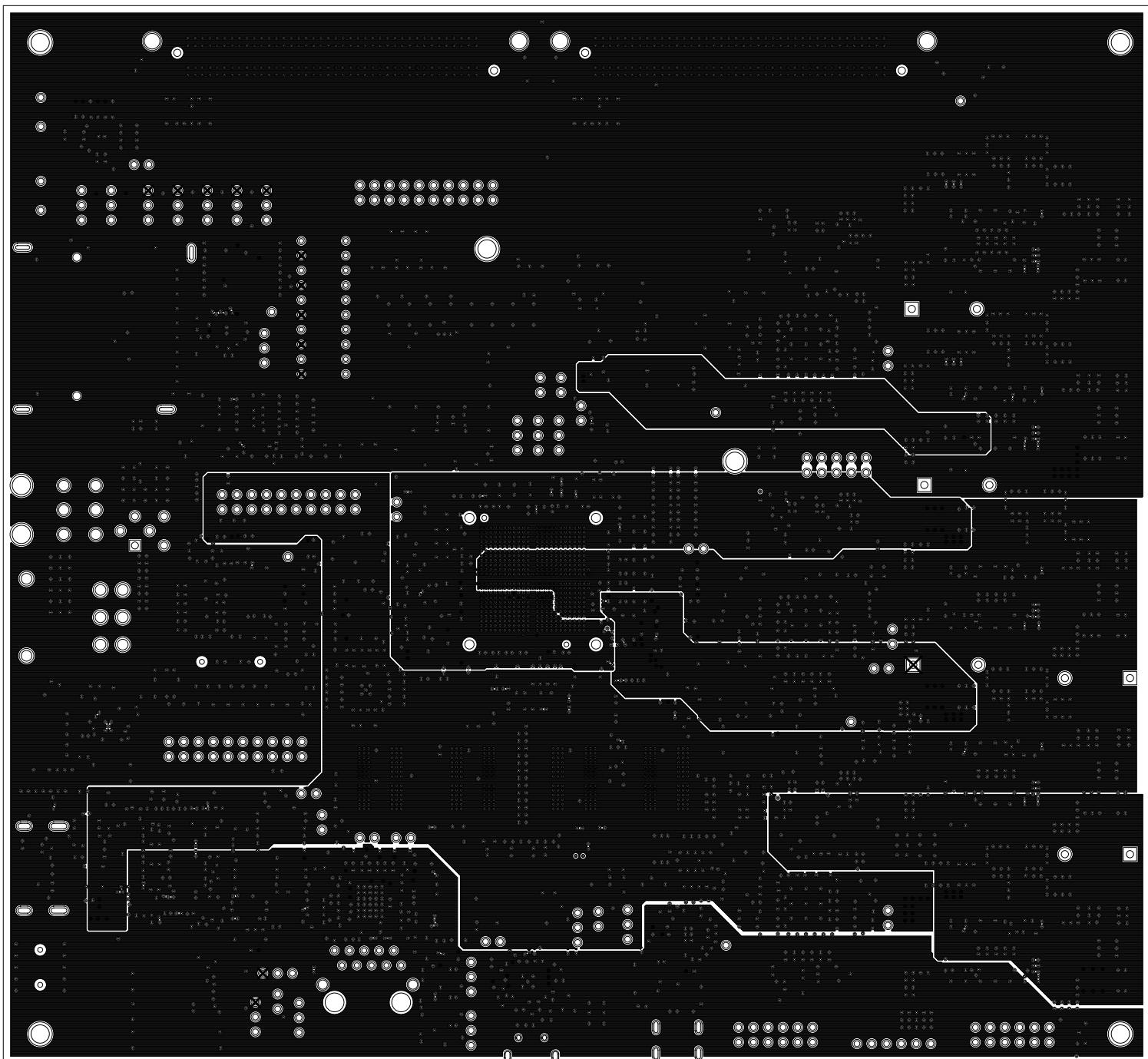
Layer: 08_PWR2	Sheet: 08 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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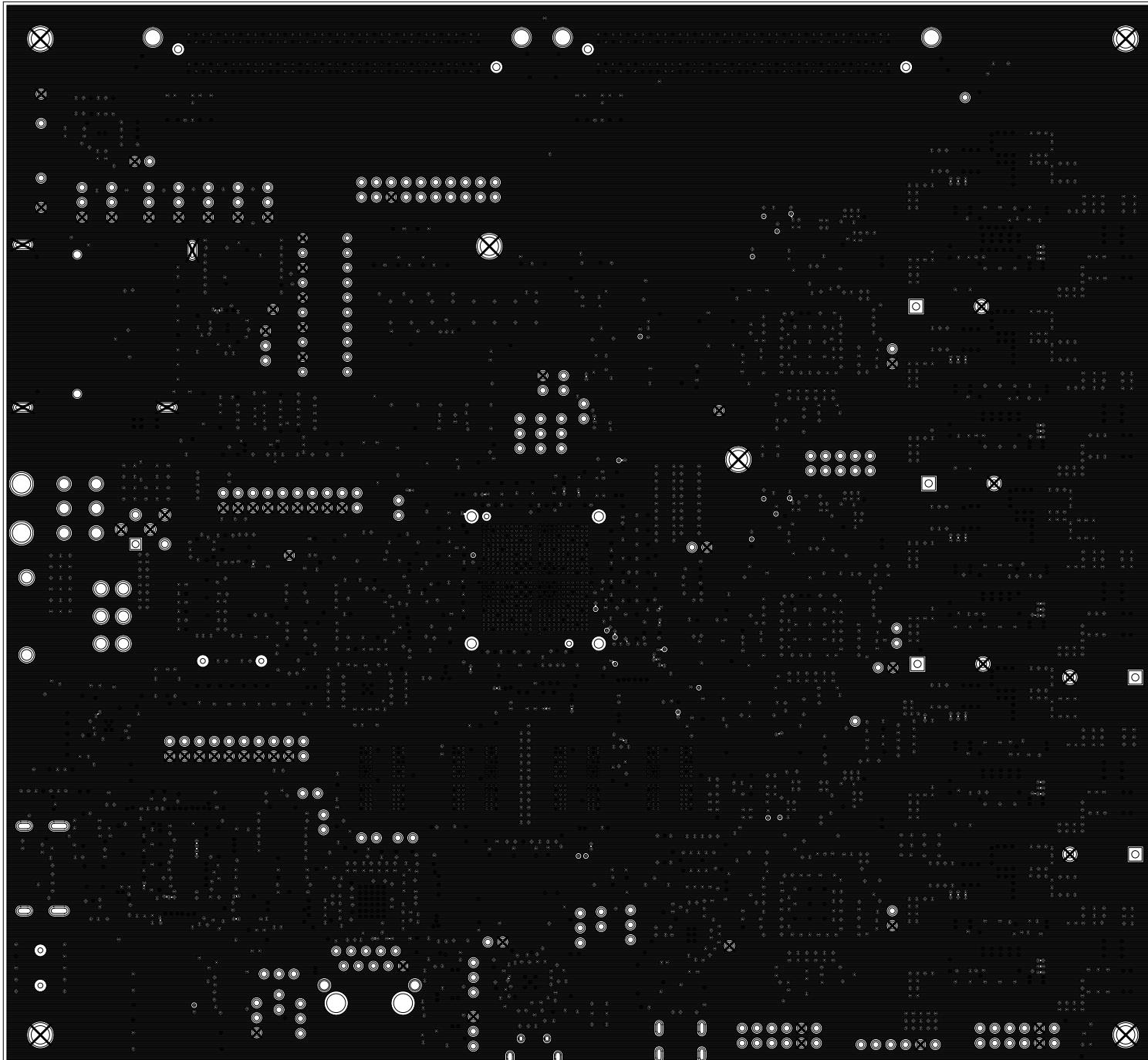
Layer: 09_PWR3	Sheet: 09 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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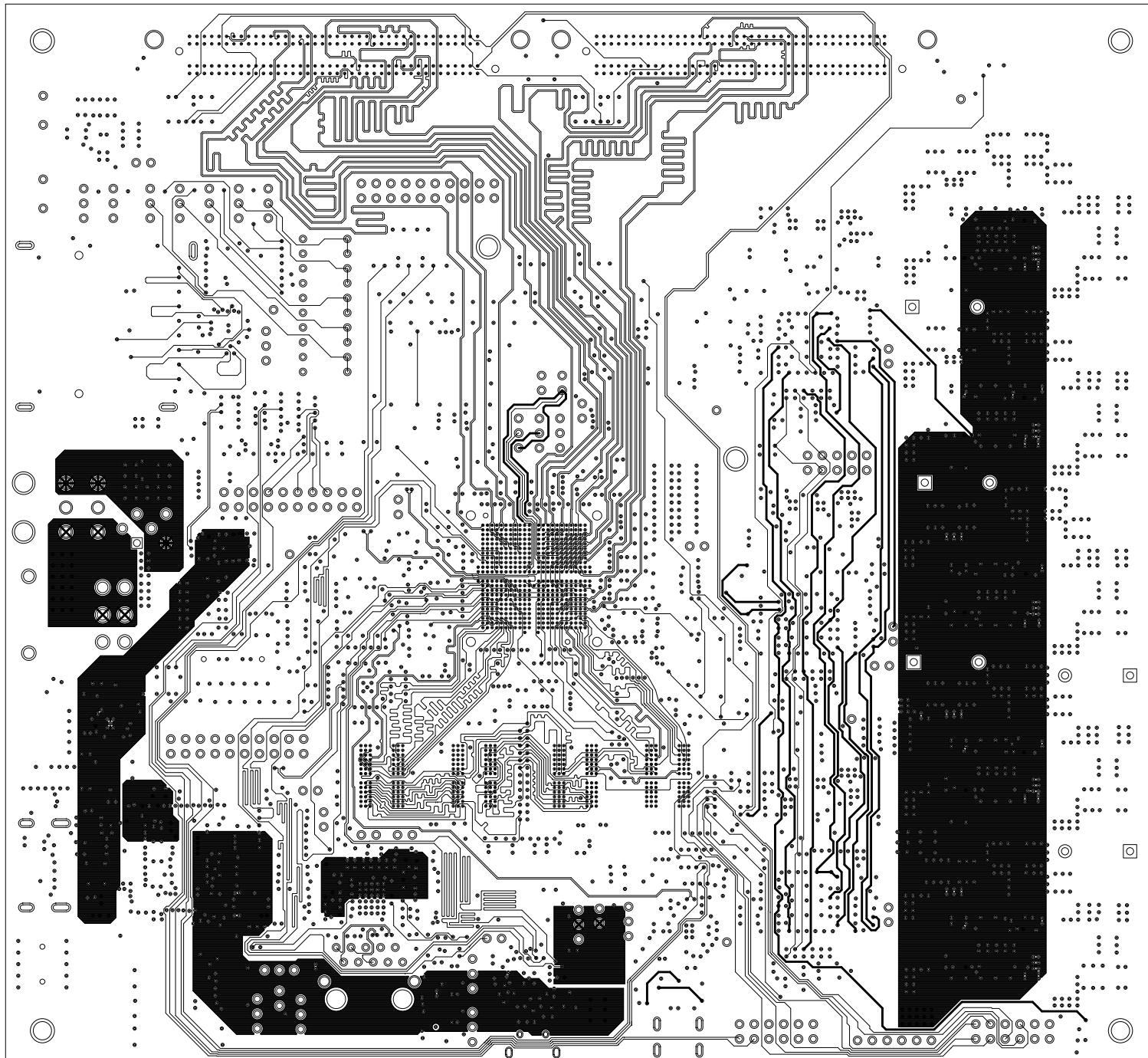
Layer: 10_PWR4	Sheet: 10 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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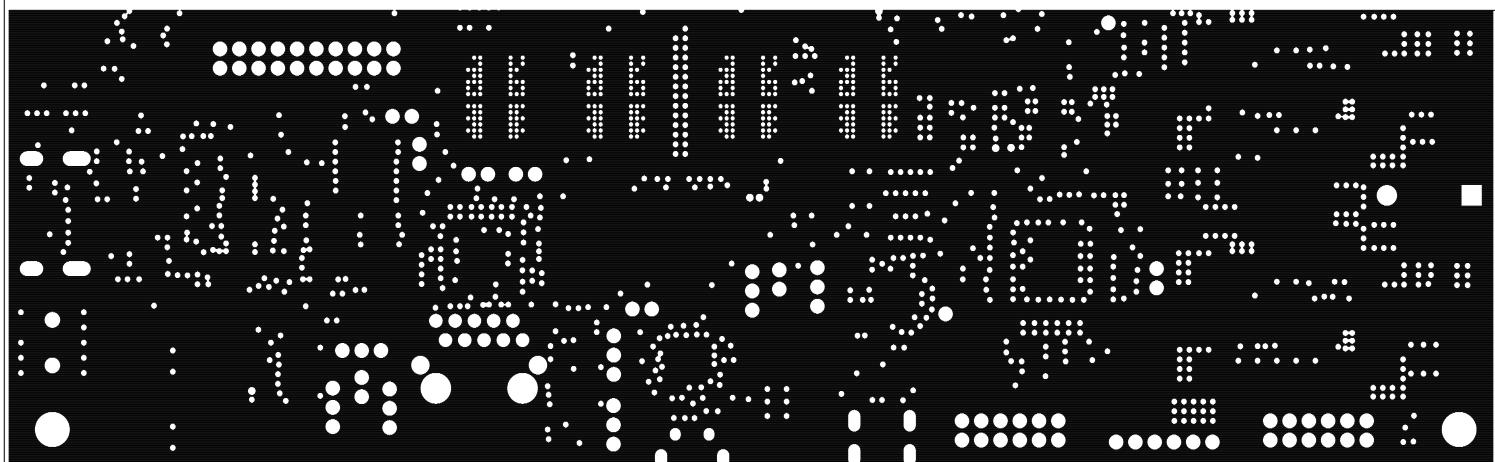
Layer: 11_GND4	Sheet: 11 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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Layer: 12_SIG3	Sheet: 12 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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Layer: Sheet: of: 24

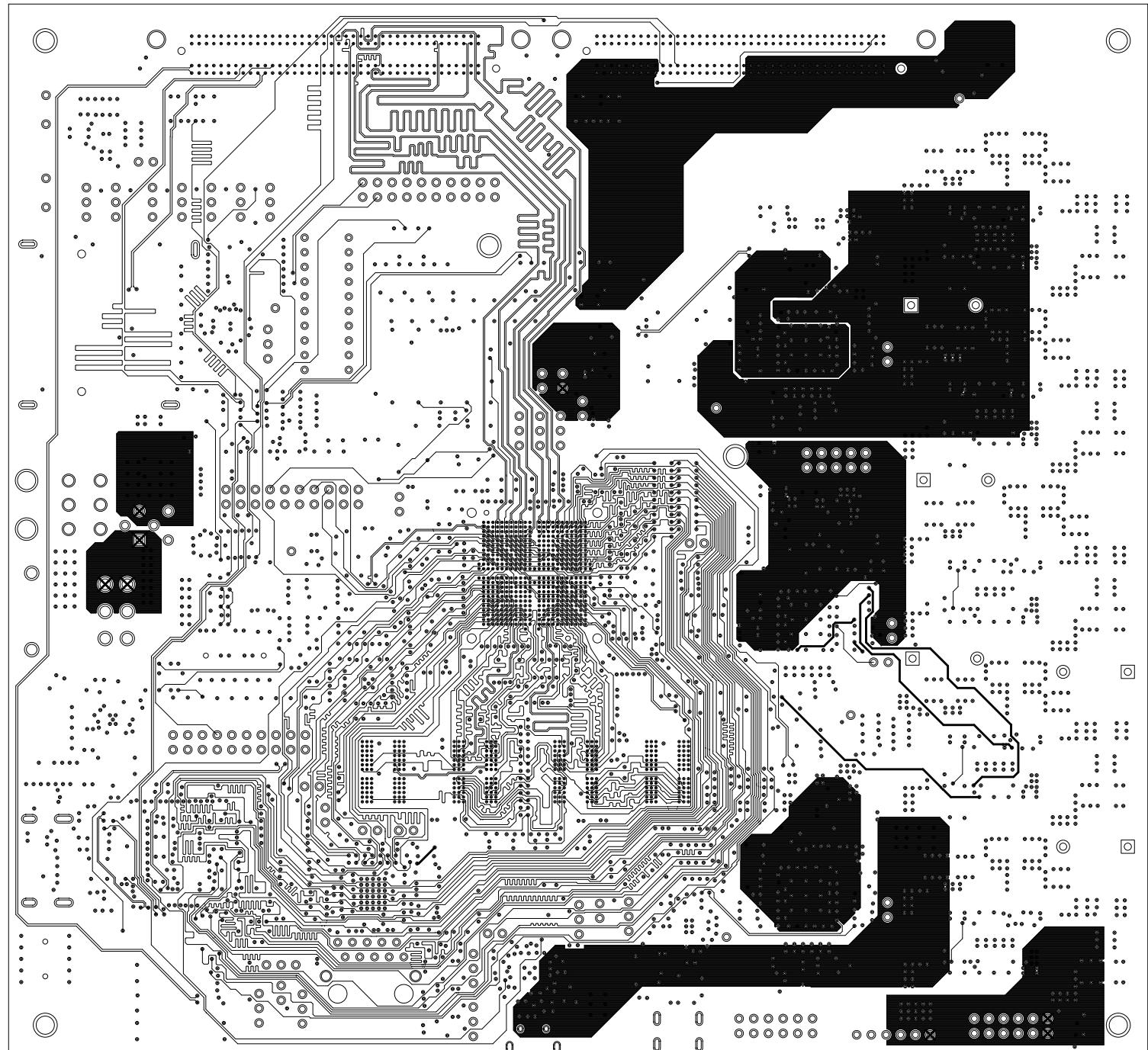
Layout Engineer: Company Name:
Fawad Munawar XILINX SYSTEMS INC.

Design Engineer: Project Name:
Brian Forsse HW-Z7-ZC702

Whizz Job Number: Date:
6092 05.11.2012 Project Number: 1280617 REV. 1.1

LATEST NETLIST REV OR DATE: 03-15-2013

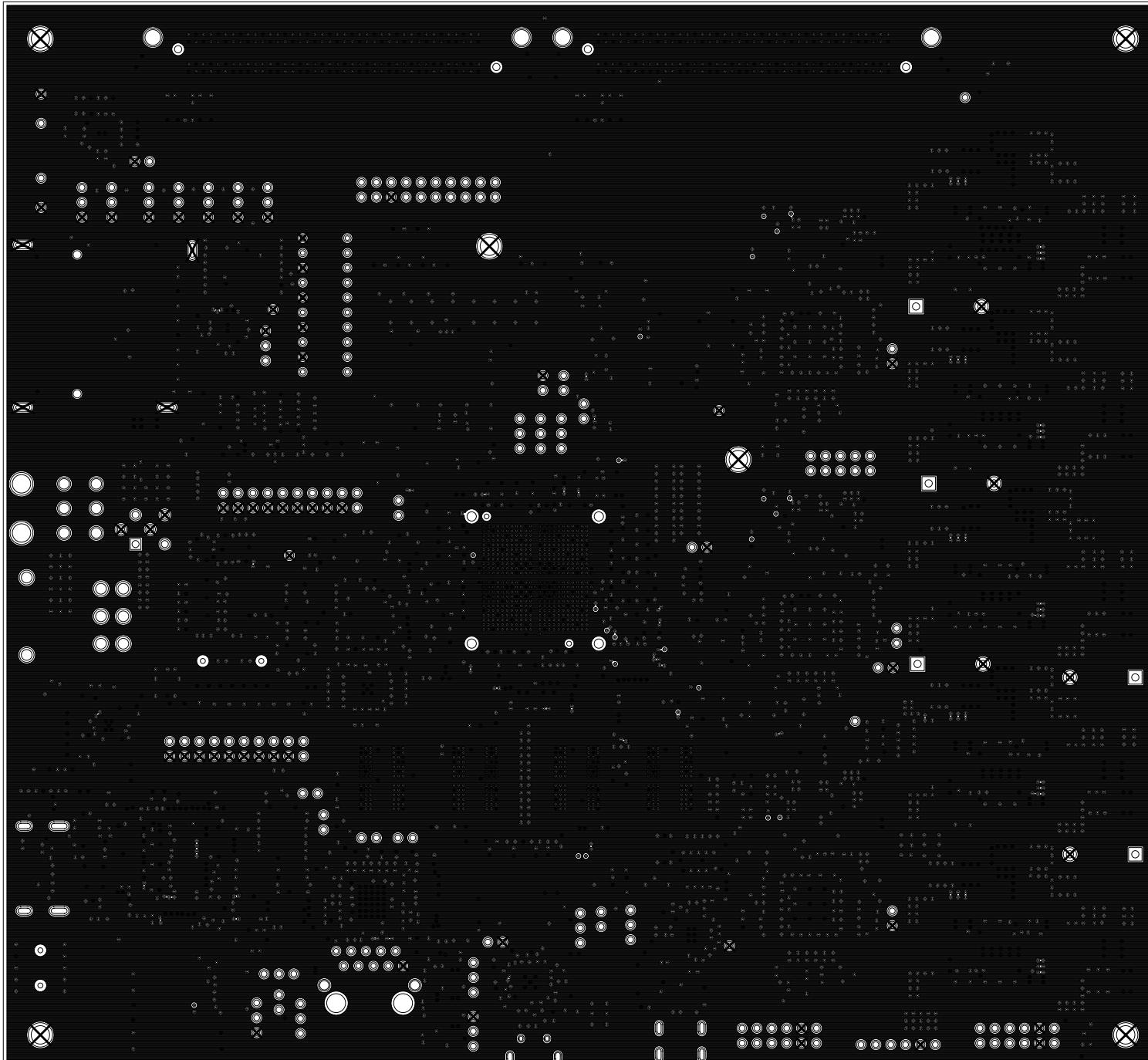
LATEST MECHANICAL REV OR DATE: 09.27.2011



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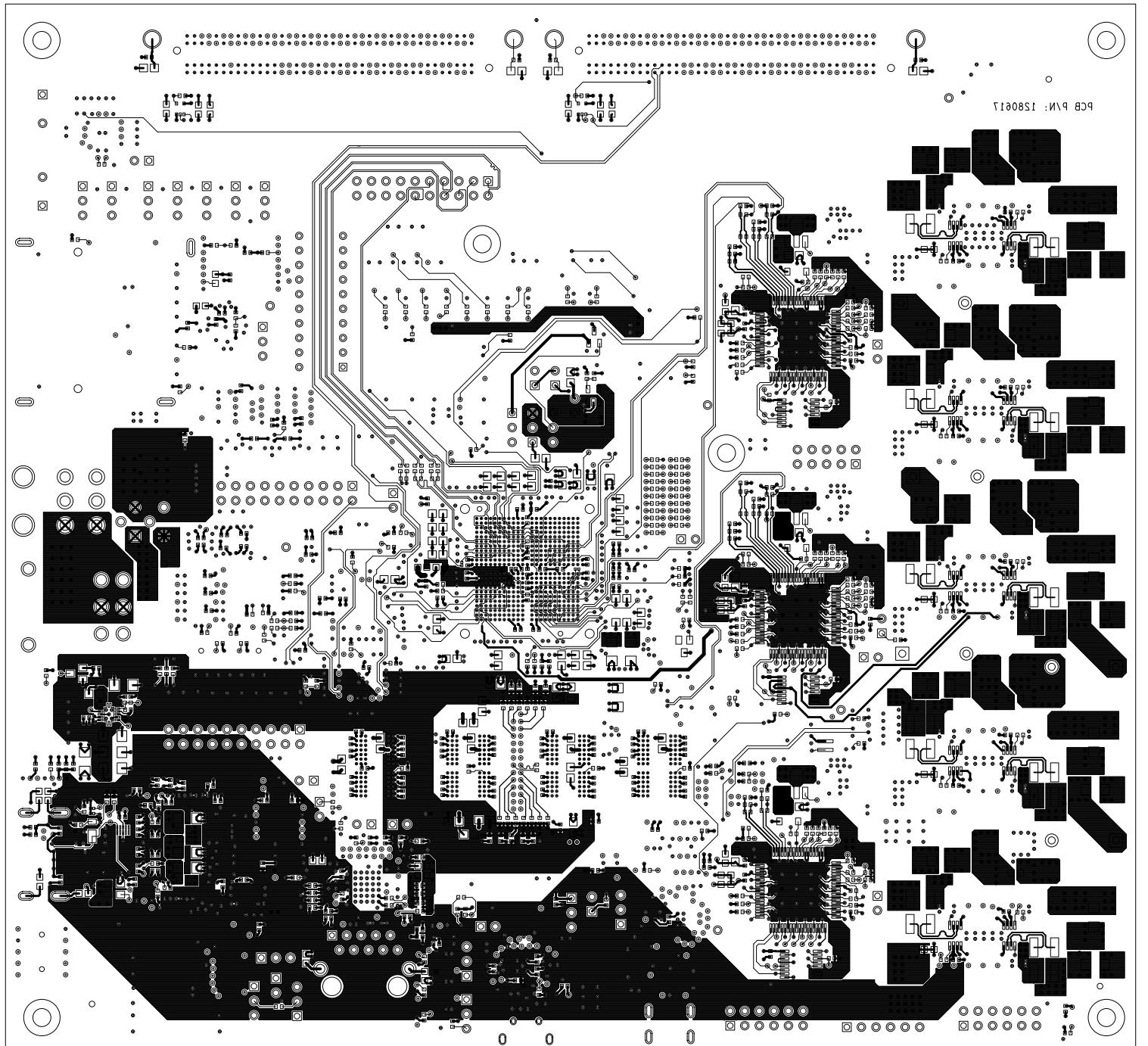
Layer: 14_SIG4	Sheet: 14 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011



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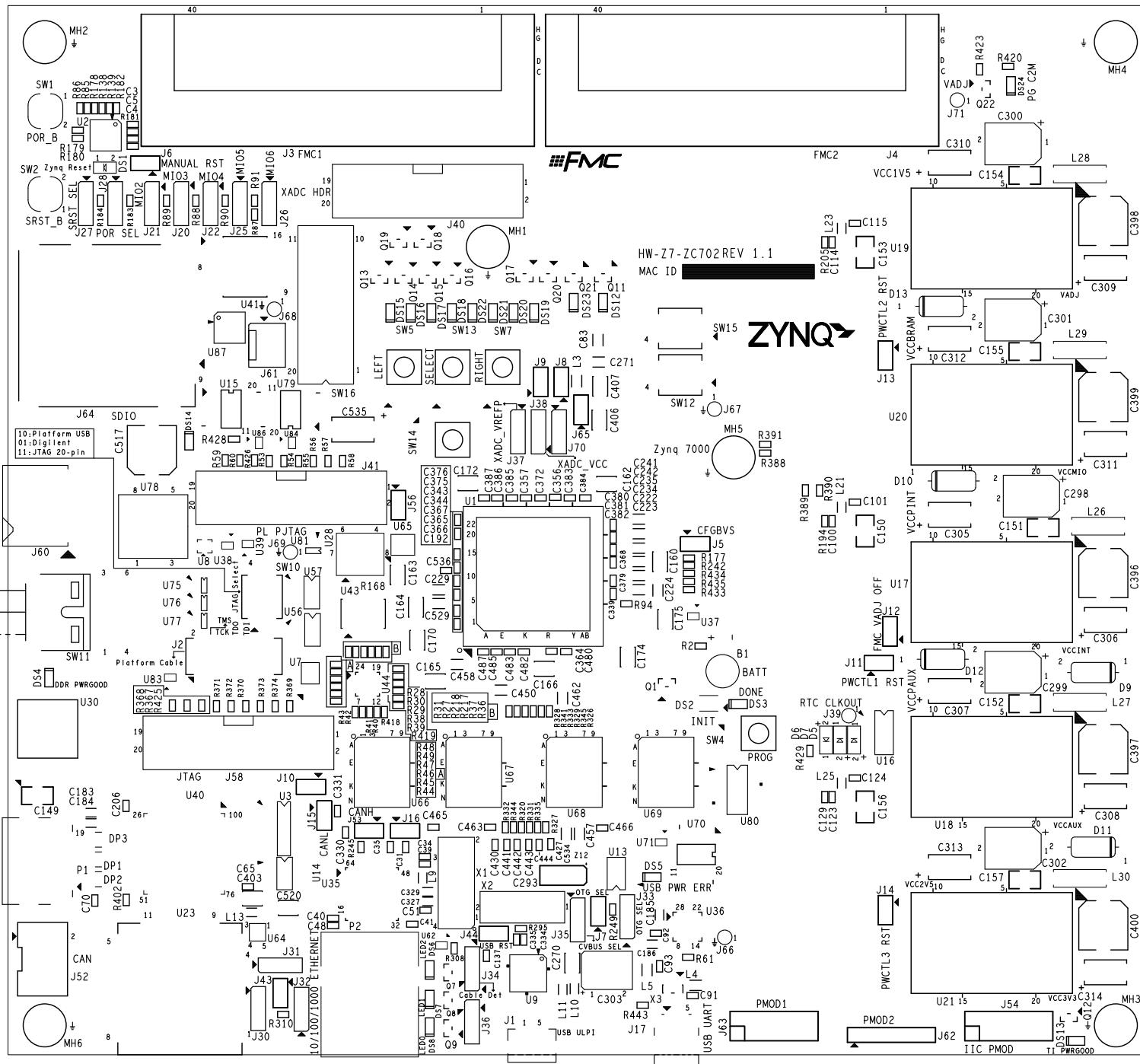
Layer: 15_GND6	Sheet: 15 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



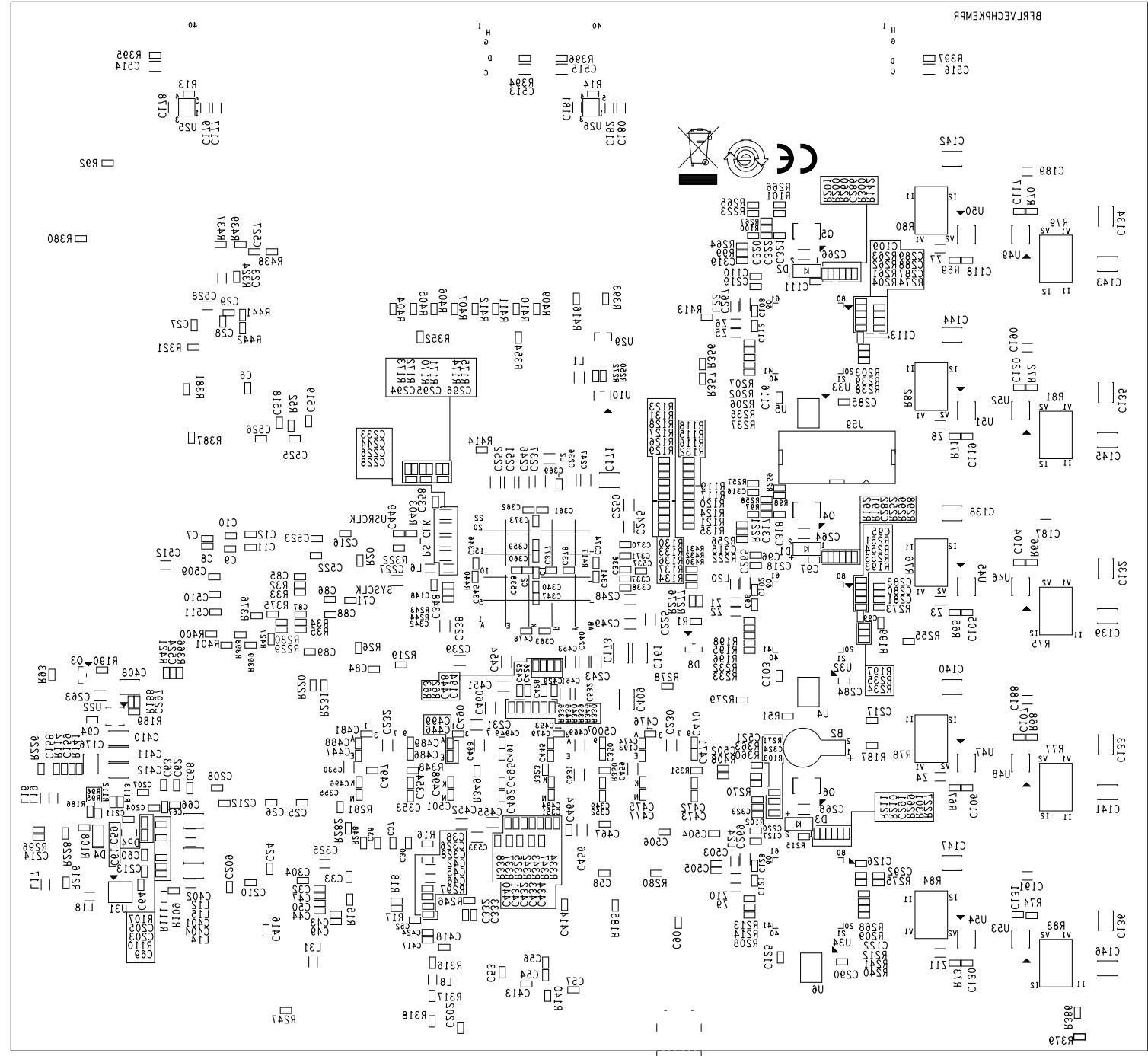
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Layer: 16_BOTTOM	Sheet: 16 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011



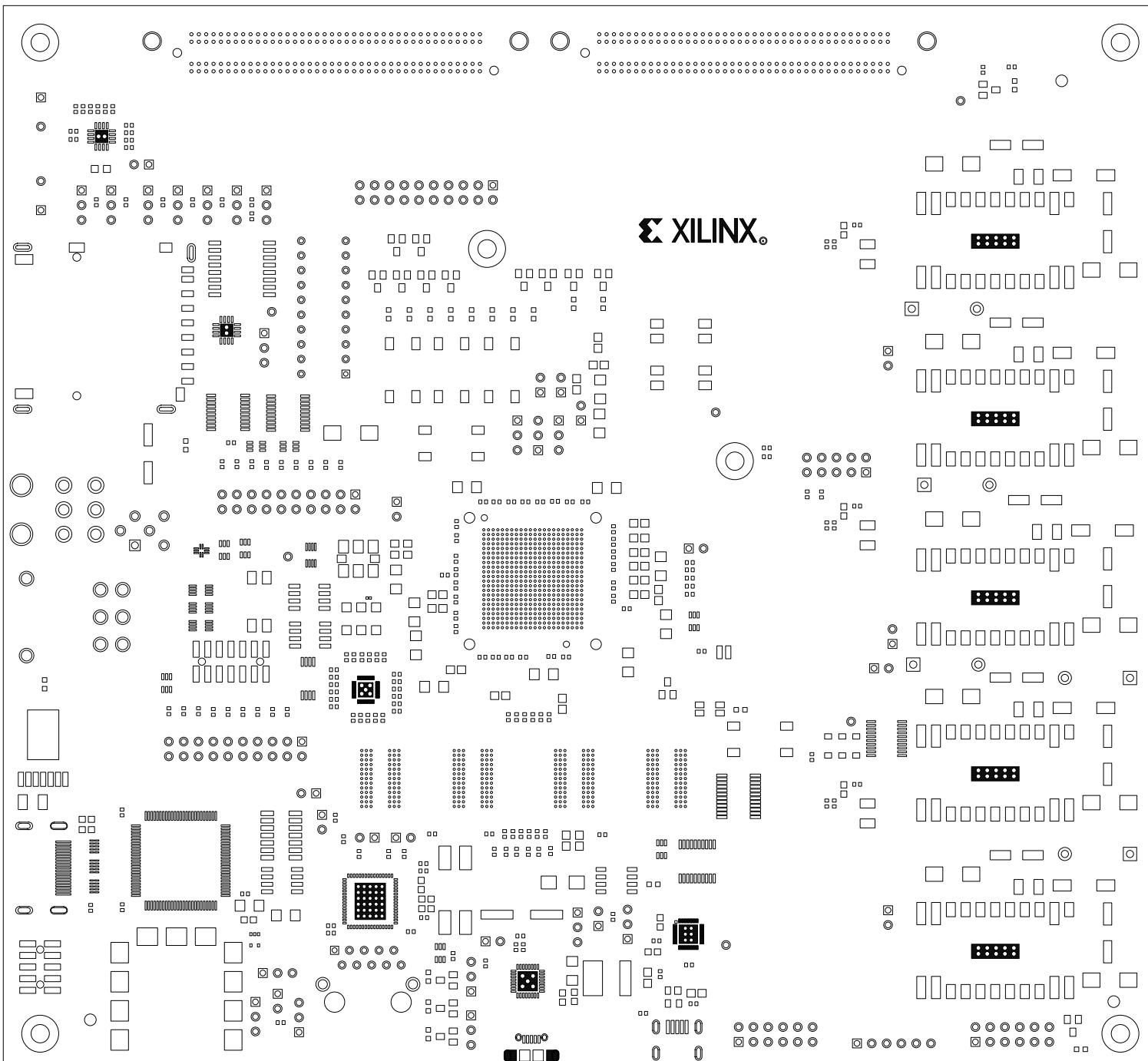
 Whizz SYSTEMS		This document contains information which is the proprietary property of XILINX Systems Inc. This document may not be disclosed to third parties without the prior written consent of XILINX Systems Inc.	
DESIGNED BY:	Layer: 17_SILK_TOP	Sheet: 17	of: 24
WHIZZ SYSTEMS INC. 3240 SCOTT BLVD., SANTA CLARA, CA 95054 www.whizzsystems.com	Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.	
TEL: 408-980-0400 FAX: 408-980-1555	Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702	
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013		LATEST MECHANICAL REV OR DATE: 09.27.2011	



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Layer: 18_SILK_BOT	Sheet: 18 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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Layer: 19_SMASK_TOP Sheet: 19 of: 24

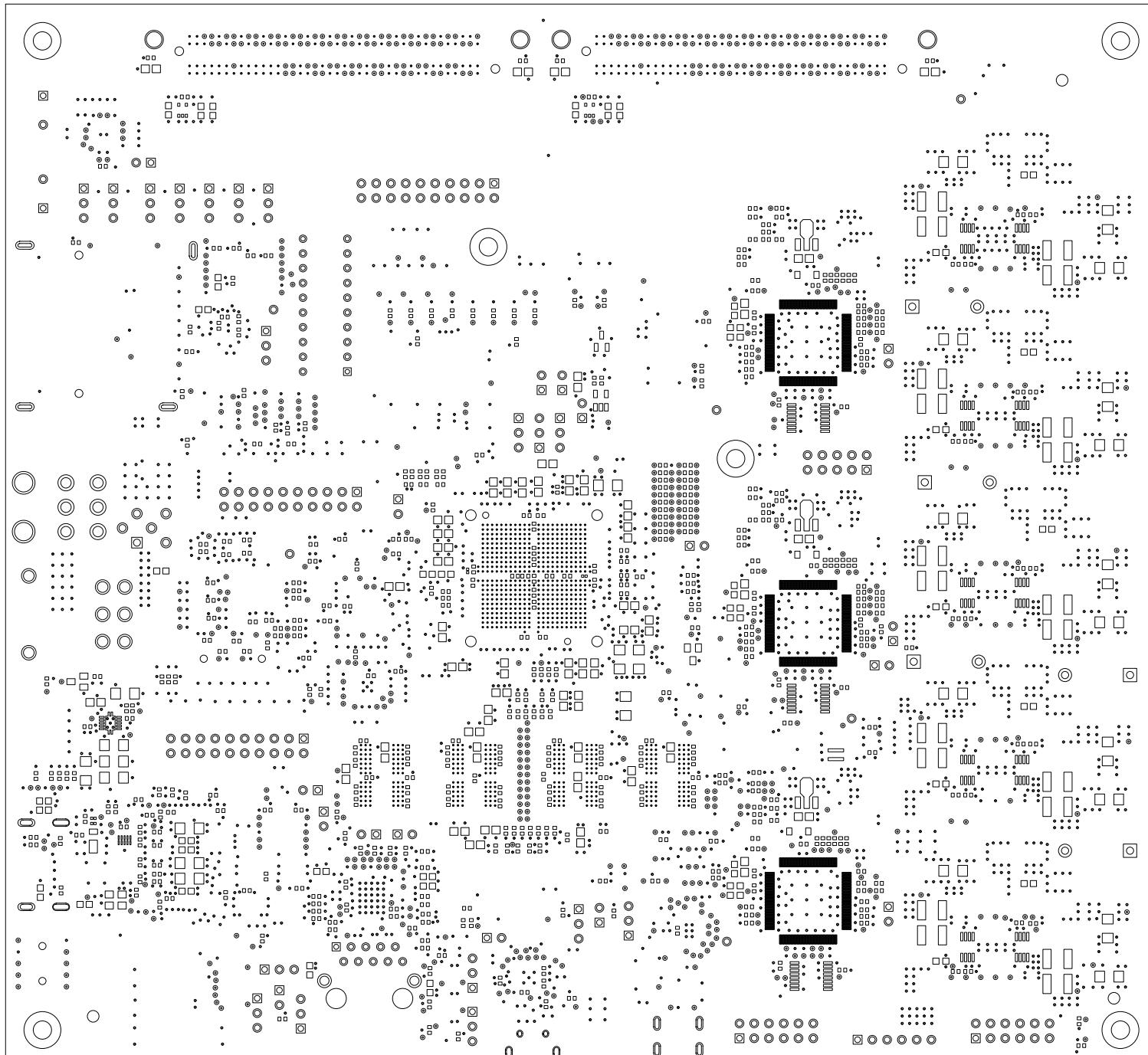
Layout Engineer: Fawad Munawar Company Name: XILINX SYSTEMS INC.

Design Engineer: Brian Forsse Project Name: HW-Z7-ZC702

Whizz Job Number: 6092 Date: 05.11.2012 Project Number: 1280617 REV. 1.1

LATEST NETLIST REV OR DATE: 03-15-2013

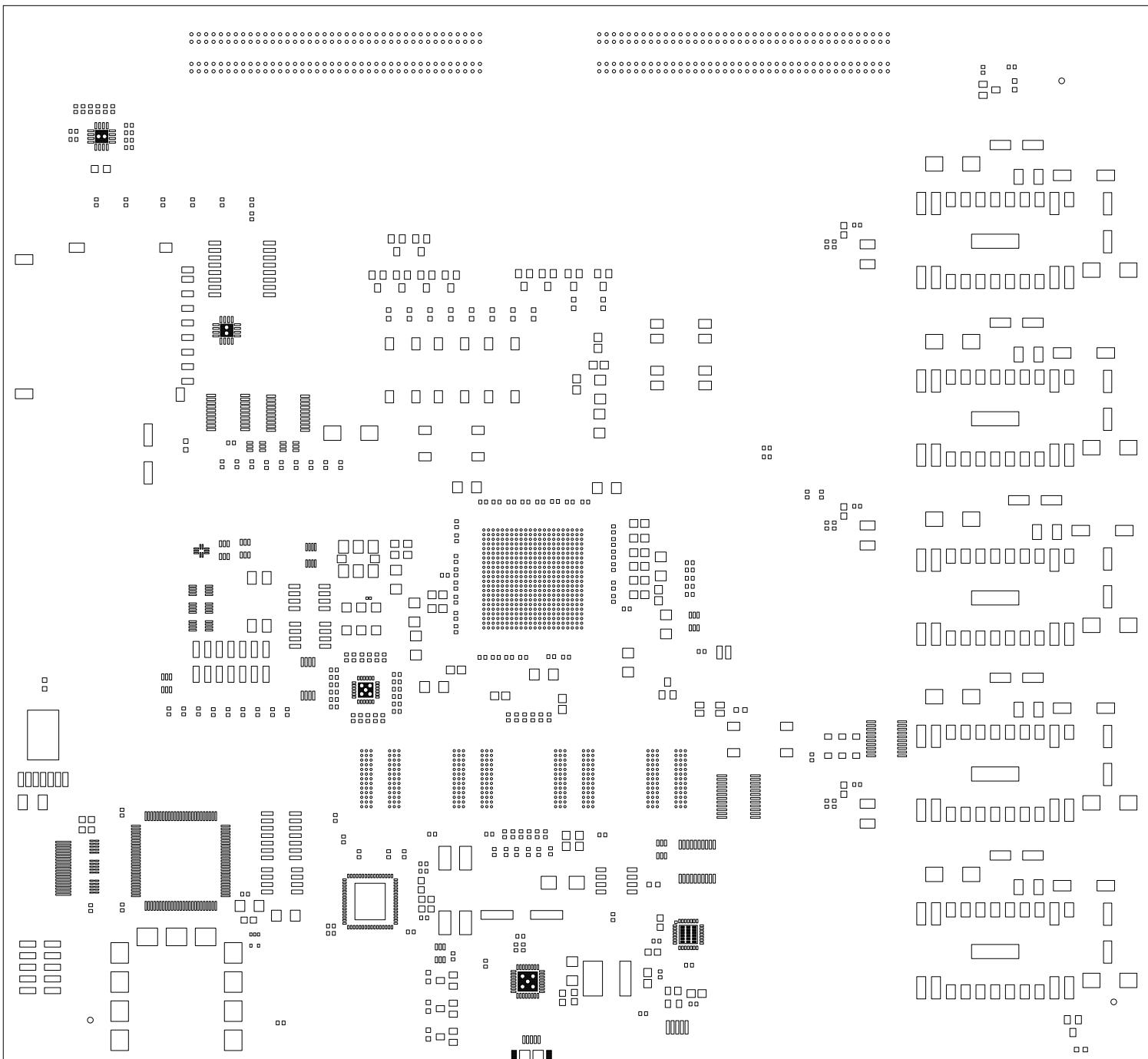
LATEST MECHANICAL REV OR DATE: 09.27.2011



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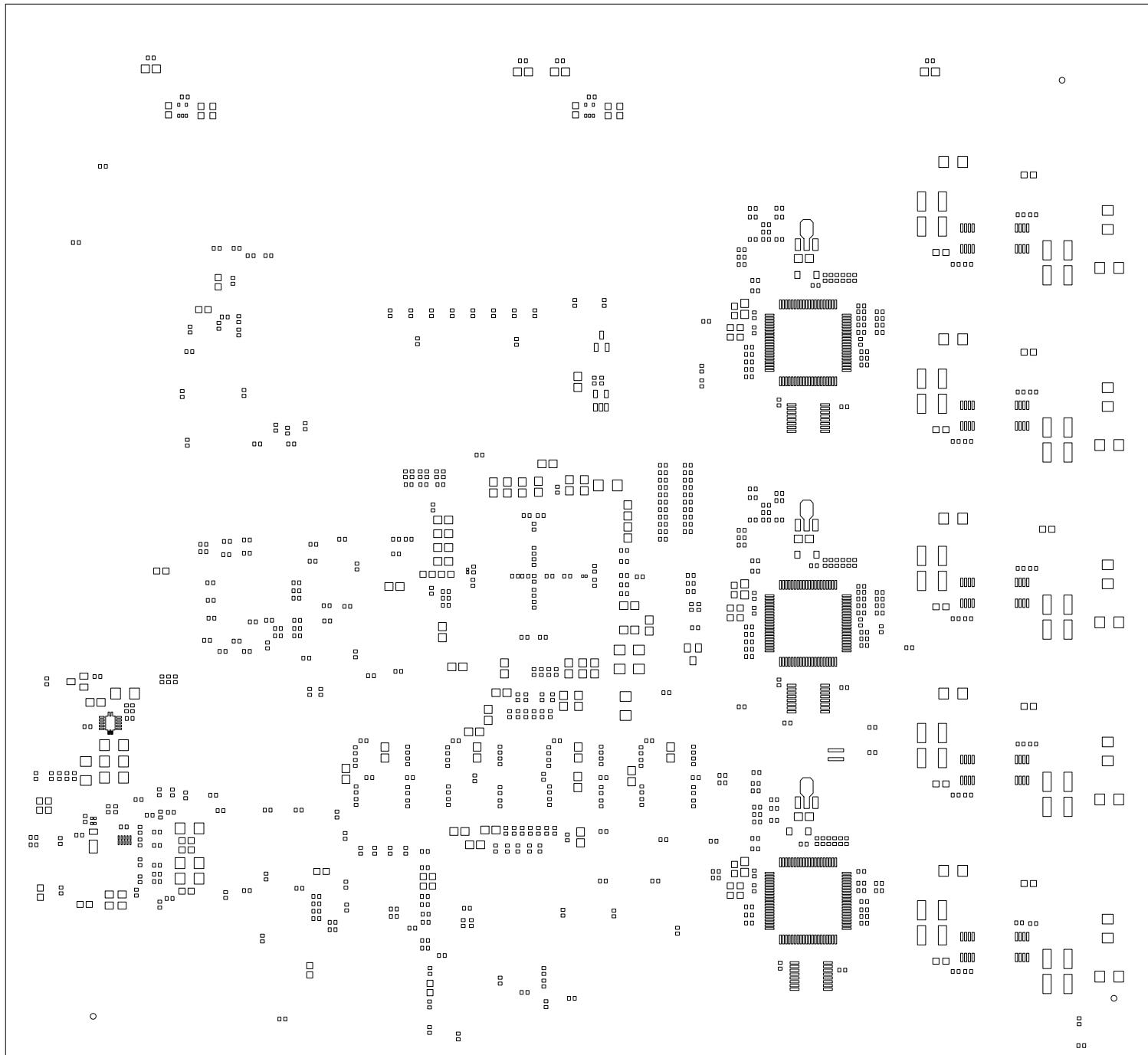
Layer: 20_SMASK_BOT	Sheet: 20 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013		LATEST MECHANICAL REV OR DATE: 09.27.2011	



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Layer: 21_PMASK_TOP	Sheet: 21 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011



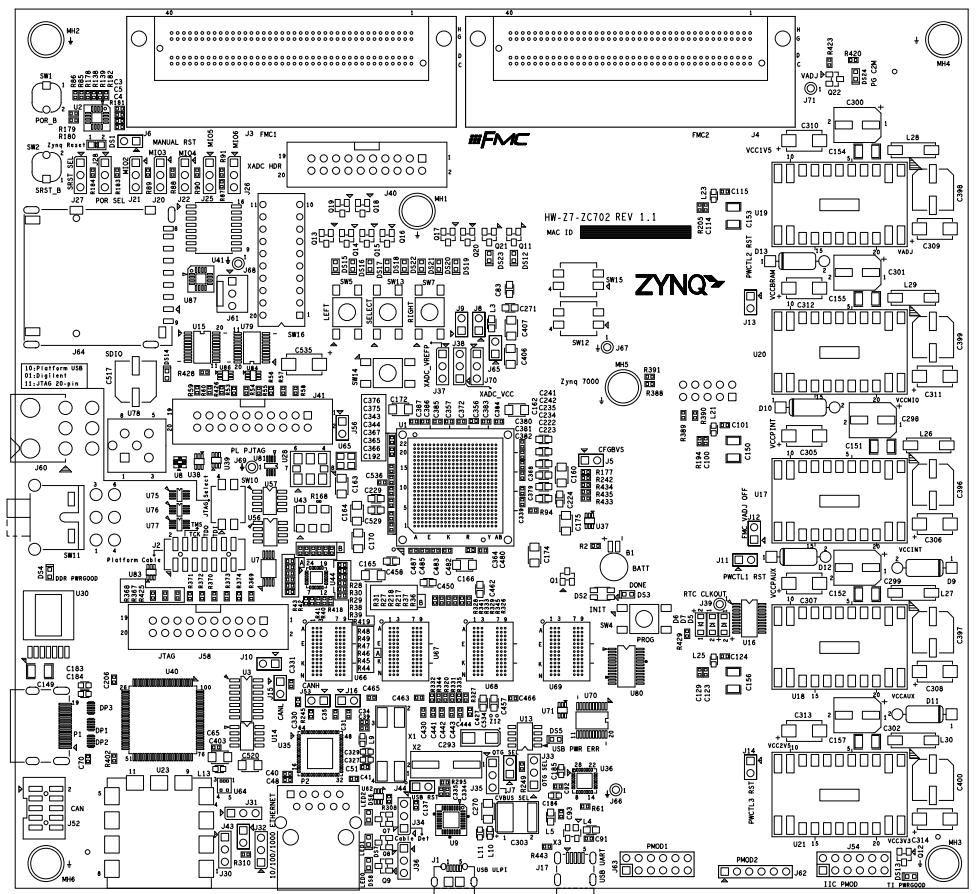
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Layer: 22_PMASK_BOT	Sheet: 22 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		

NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. ASSEMBLE TO MEET INSPECTION CRITERIA OF
 IPC-A-610, CLASS 2, CURRENT REVISION.
 2. BAG AND TAG (OR MARK CONTAINER) WITH PART NUMBER.
 3. REFERENCE SCHEMATIC (OR AVL) FOR BILL OF MATERIALS.
 4. ASSEMBLY SHOULD BE 'ROHS' AND 'LEAD FREE' COMPLIANT.

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	1.1	INITIAL RELEASE	05/11/12 BF



NOTES: (UNLESS OTHERWISE SPECIFIED)
THIS FAB SHOULD BE ROHS COMPLIANT.
1. FABRICATE TO IPC-A-600, CURRENT REVISION
2. BOARD SHALL MEET THE INSPECTION CRITERIA OF

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	1.1	INITIAL RELEASE	05/11/12 BF

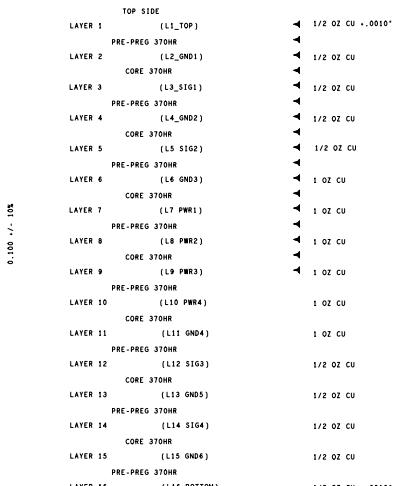
- (3) MATERIAL: POLYCLAD 370 HR (RoHS COMPLIANT MATERIAL) OR EQUIVALENT. GLASS
WITH N/A
4. APPLY SOLDER MASK OVER BARE COPPER (SMBC) IAW
IPC-SM-840, BOTH SIDES, USING LPI, COLOR GREEN.
5. LPI SOLDER MASK TAIYO PSR4000 (RoHS COMPLIANT MATERIAL) OR EQUIVALENT WILL BE USED ON BOTH
SIDES.
6. SOLDER MASK REQUIREMENTS FOR VIAS:
a) VIA DRILLS TENTED(COVERED)FROM TOP SIDE AND ENCROACHED WITH SOLDER MASK RELIEF OF DRILL
b) ALL TEST POINT VIAS SHOWN IN DATA AS ONE TO ONE SOLDER MASK RELIEF ON TEST SIDE, SHALL BE
c) PLUG TENTED VIA DRILLS IN BGA AREA FROM TOP SIDE ONLY.
7. SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION OF +/- 0.002" WITH APPLICABLE
HOLE / PAD.

- (8) FINISH: GOLD IMMERSION.
9. SILKSCREEN USING WHITE HAVEN PC421 (NON-CONDUCTIVE OR EQUIVALENT RoHS COMPLIANT MATERIAL)
OR EPOXY INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON SOLDER LANDS IS
NOT ACCEPTABLE.
10. VENDOR LOGO AND DATE CODE TO BE MARKED SOLDER SIDE IN SILKSCREEN. MAXIMUM HEIGHT 0.12 INCHES.
11. 100% ELECTRICAL TEST REQUIRED FOR CONTINUITY. BOARD SHALL HAVE A
UL-RATING OF 94V-0. UL SYMBOL AND RATING SHALL BE MARKED SOLDER SIDE IN SILKSCREEN.

12. REMOVE ALL UNUSED PADS FROM INTERNAL LAYERS.
13. 274X GERBER/ODB+ USED FOR FAB MUST BE VERIFIED AGAINST THE PROVIDED IPC356 NETLIST. COPPER
LINES ARE THICKNESS 0.003". COPPER WIDTH BETWEEN ANTI-PAD TO PLANE EDGE AND ANTI-PAD TO SPLIT
PLANE AND ANTI-PAD TO ANTI-PAD MUST BE REMOVED FROM THE MANUFACTURING ARTWORK. A NETLIST
COMPARISON MUST BE PASSED WITH NO VIOLATION AFTER THE REMOVAL OF SLIVERS. ANY REQUIREMENT
FOR SLIVER REMOVAL, ABOVE OR EQUAL TO THE 0.003" COPPER WIDTH MUST BE ADDRESSED AND APPROVED
IN WRITING BY APPLIER.
14. VIAS ARE SUPPOSED TO BE DIRECTLY CONNECTED TO RESPECTIVE PLANE.

15. INTENTIONAL SHORT:
PLEASE REPORT ANY SHORT OTHER THAN THESE:
GND SHORTED TO AGND2_9248, AGND1_9248, AGND3_9248, DGND2_9248, DGND1_9248, DGND3_9248.
AGND1_9248 SHORTED TO DGND1_9248.
AGND2_9248 SHORTED TO DGND2_9248.
AGND3_9248 SHORTED TO DGND3_9248.
VTTDDR_PS SHORTED TO 3TN364.

DRILL CHART: TOP to BOTTOM ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	OTY
.	8.0	+0.0/-8.0	PLATED	807
.	10.0	+0.0/-10.0	PLATED	320
.	12.0	+0.0/-12.0	PLATED	3147
■	32.0	+3.0/-3.0	PLATED	20
■	35.0	+3.0/-3.0	PLATED	10
■	40.0	+1.0/-3.0	PLATED	4
■	40.0	+3.0/-3.0	PLATED	194
■	48.0	+3.0/-3.0	PLATED	6
○	50.0	+3.0/-3.0	PLATED	10
●	63.0	+3.0/-3.0	PLATED	2
◎	71.0	+3.0/-3.0	PLATED	6
◎	73.0	+3.0/-3.0	PLATED	8
■	106.0	+3.0/-3.0	PLATED	4
■	125.0	+3.0/-3.0	PLATED	8
■	33.0	+1.0/-1.0	NON-PLATED	2
■	40.0	+2.0/-2.0	NON-PLATED	4
■	50.0	+2.0/-2.0	NON-PLATED	4
■	54.0	+2.0/-2.0	NON-PLATED	2
●	63.0	+2.0/-2.0	NON-PLATED	4
●	128.0	+2.0/-2.0	NON-PLATED	2
●	33.0x26.0	+3.0/-3.0	PLATED	2
●	59.0x32.0	+3.0/-3.0	PLATED	2
●	75.0x28.0	+2.0/-2.0	PLATED	4
●	83.0x35.0	+2.0/-2.0	PLATED	2
●	95.0x24.0	+3.0/-3.0	PLATED	3
●	95.0x24.0	+3.0/-3.0	PLATED	1
●	106.0x35.0	+2.0/-2.0	PLATED	2



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

AYER	SINGLE ENDED LINE WIDTH	DIFF LINE WIDTH	DIFF LINE SPACE	SINGLE	DIFF
L1,L16	4.25 MILS	3.50 MILS	7.50 MILS	50 OHMS	100 OHMS
L3,L5	3.25 MILS	3.25 MILS	6.75 MILS	50 OHMS	100 OHMS
L12,L14	3.25 MILS	3.25 MILS	6.75 MILS	50 OHMS	100 OHMS
L1,L16	6.75 MILS	5.00 MILS	5.00 MILS	40 OHMS	80 OHMS
L3,L5	4.75 MILS	4.40 MILS	5.40 MILS	40 OHMS	80 OHMS
L12,L14	4.75 MILS	4.40 MILS	5.40 MILS	40 OHMS	80 OHMS
L1	4.00 MILS	5.00 MILS	5.00 MILS	90 OHMS	
L3	3.50 MILS	5.50 MILS		90 OHMS	

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:
LINEAR DIMENSIONS	ANGLES			XILINX SYSTEMS, INC
XXX = ± .010	XX,XX = ± 0.30°			
XX = ± .030	XX,X = ± 1.0°			
X = ± .100	XX = ± 5.0°			
		DRAWN:		
		Fawad Munawar	05.11.12	
		CHECKED:		
		Rashid Mehmood	05.11.12	
		DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		PROJECT NAME:
		WHIZZ SYSTEMS INC.		HW-Z7-ZC702
		3240 SCOTT BLVD.,		
		SANTA CLARA, CA 95054		
		TEL: 408-980-0400		
		ENGR:		
		Brian Forsse	05.11.12	
		APPROVAL:		
		Brian Forsse	05.11.12	SIZE: F FAB DWG. NO. REV. 1.1
		WHIZZ JOB NO.	6092	1280617
		SCALE: 1:1		SHEET 1 OF 1
		DO NOT SCALE DRAWING		