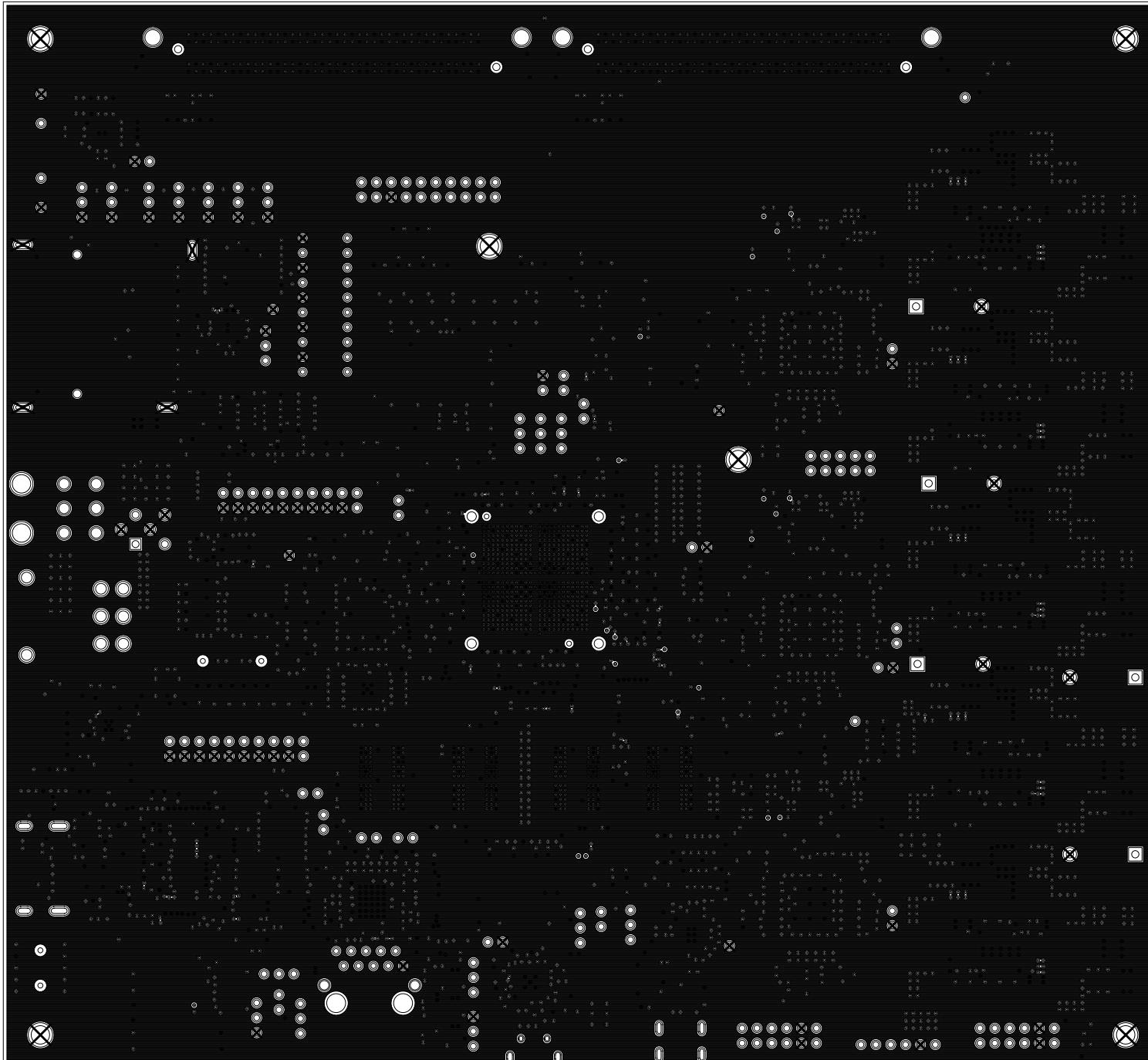


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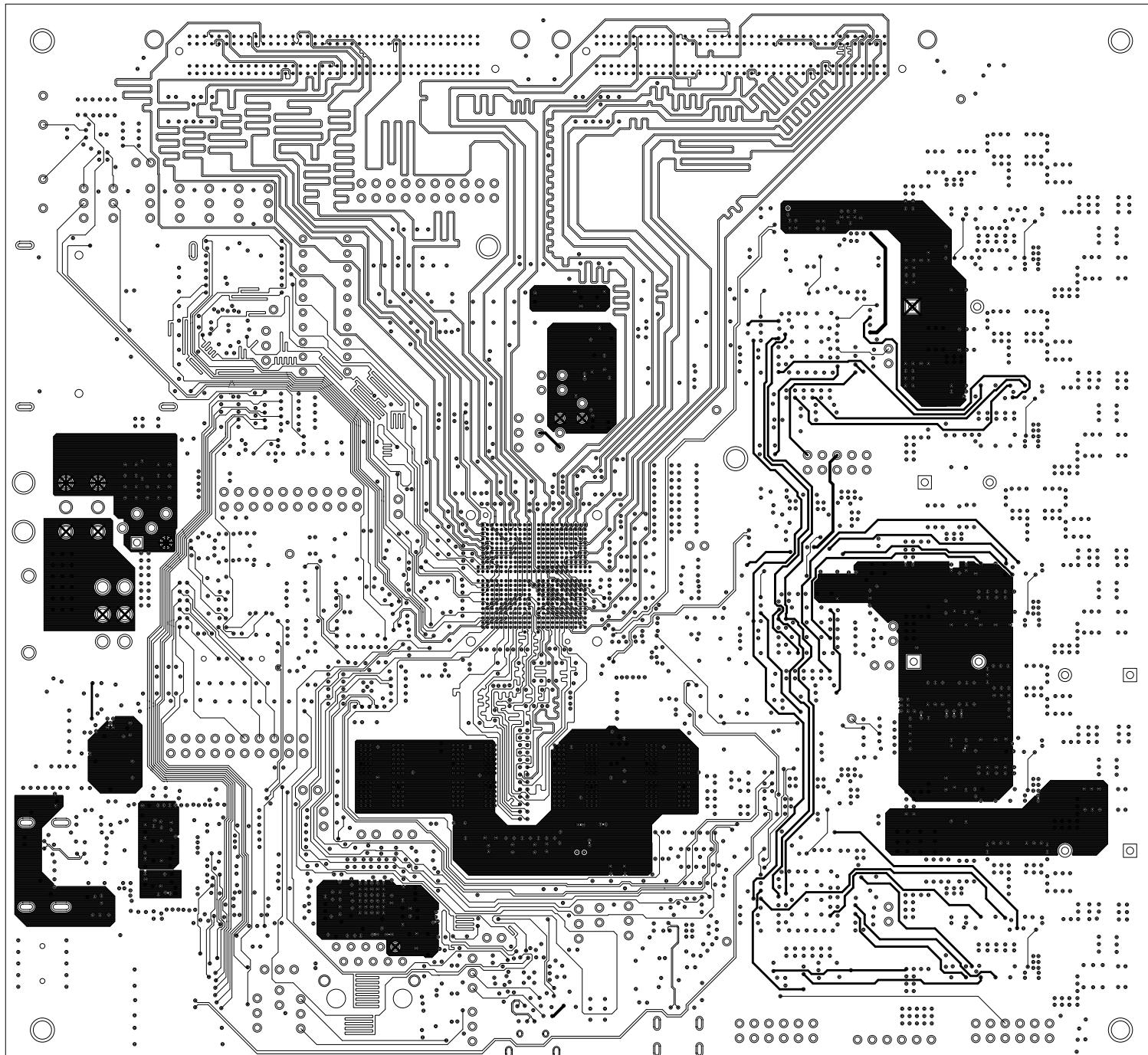
Layer: 01_TOP	Sheet: 01 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: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



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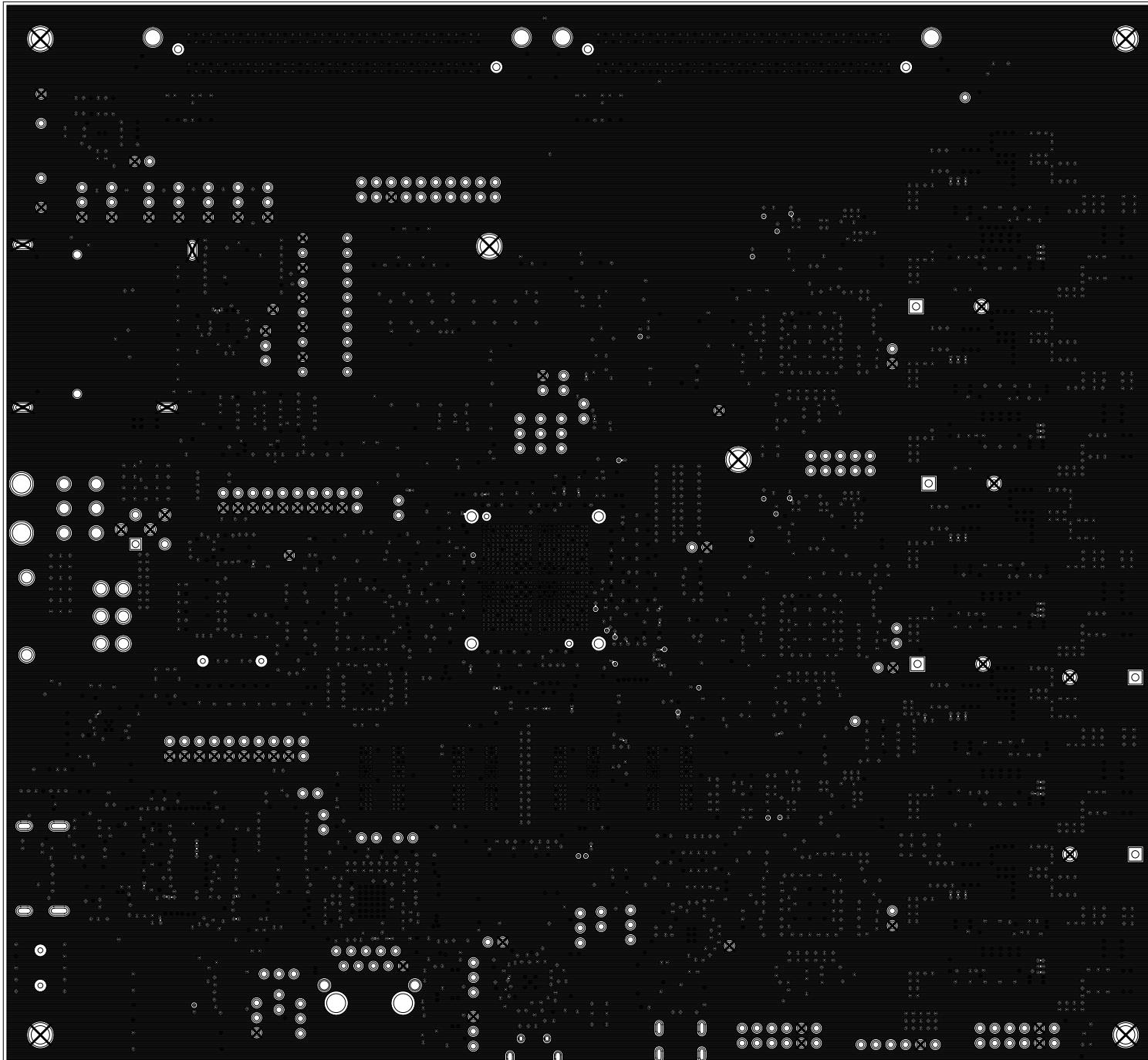
Layer: 02_GND1	Sheet: 02 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: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



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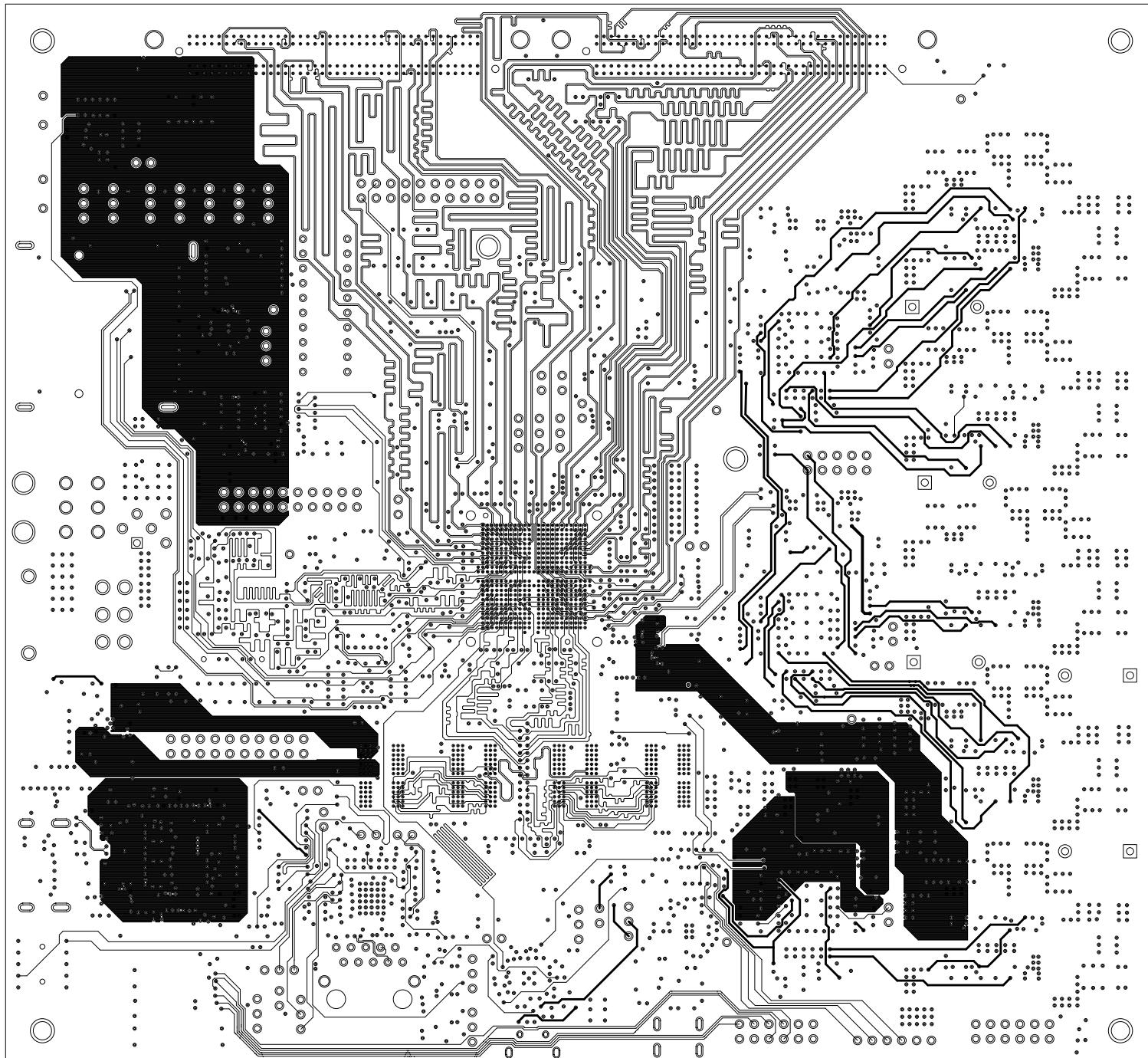
Layer: 03_SIG1	Sheet: 03 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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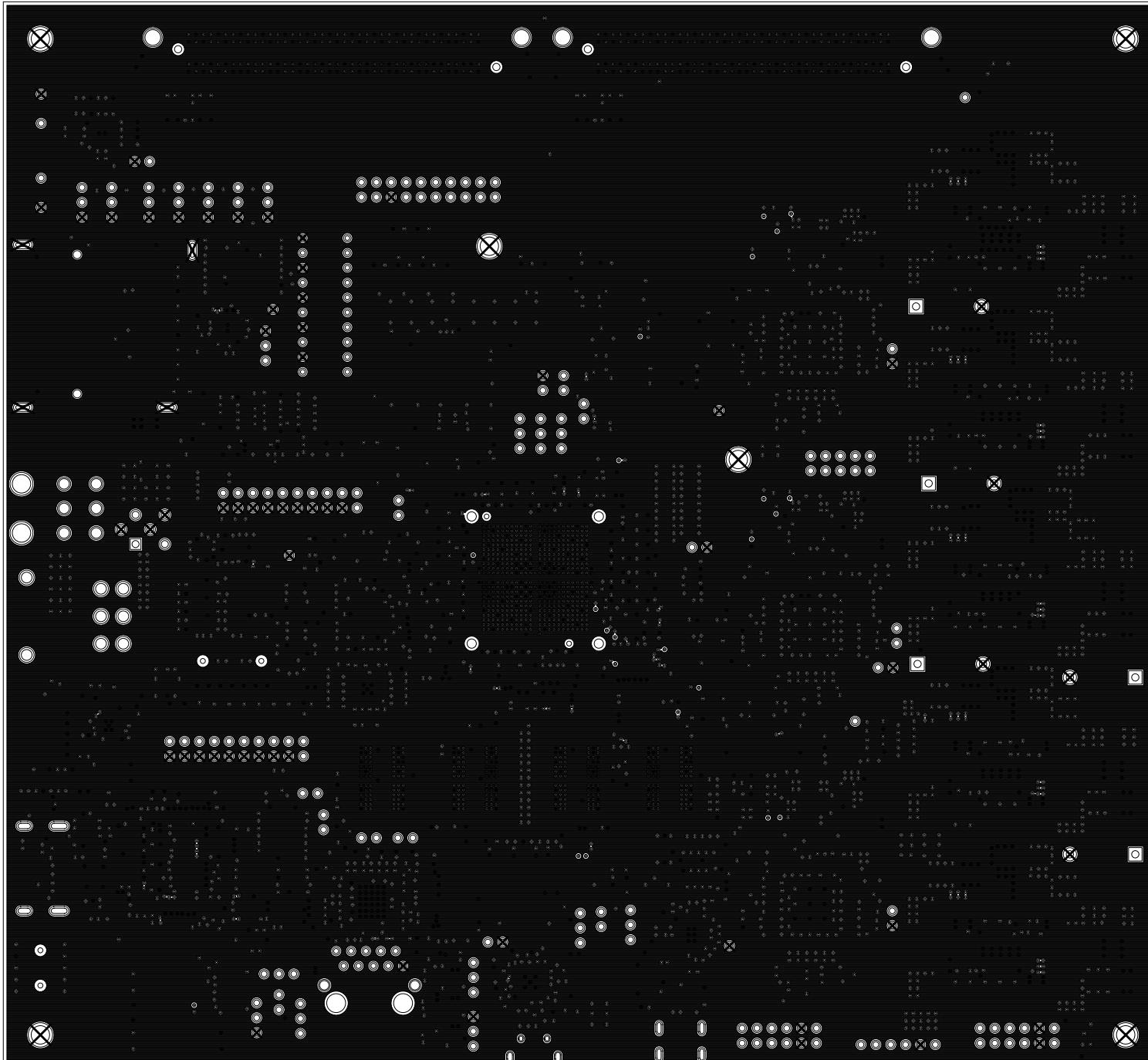
Layer: 04_GND2	Sheet: 04 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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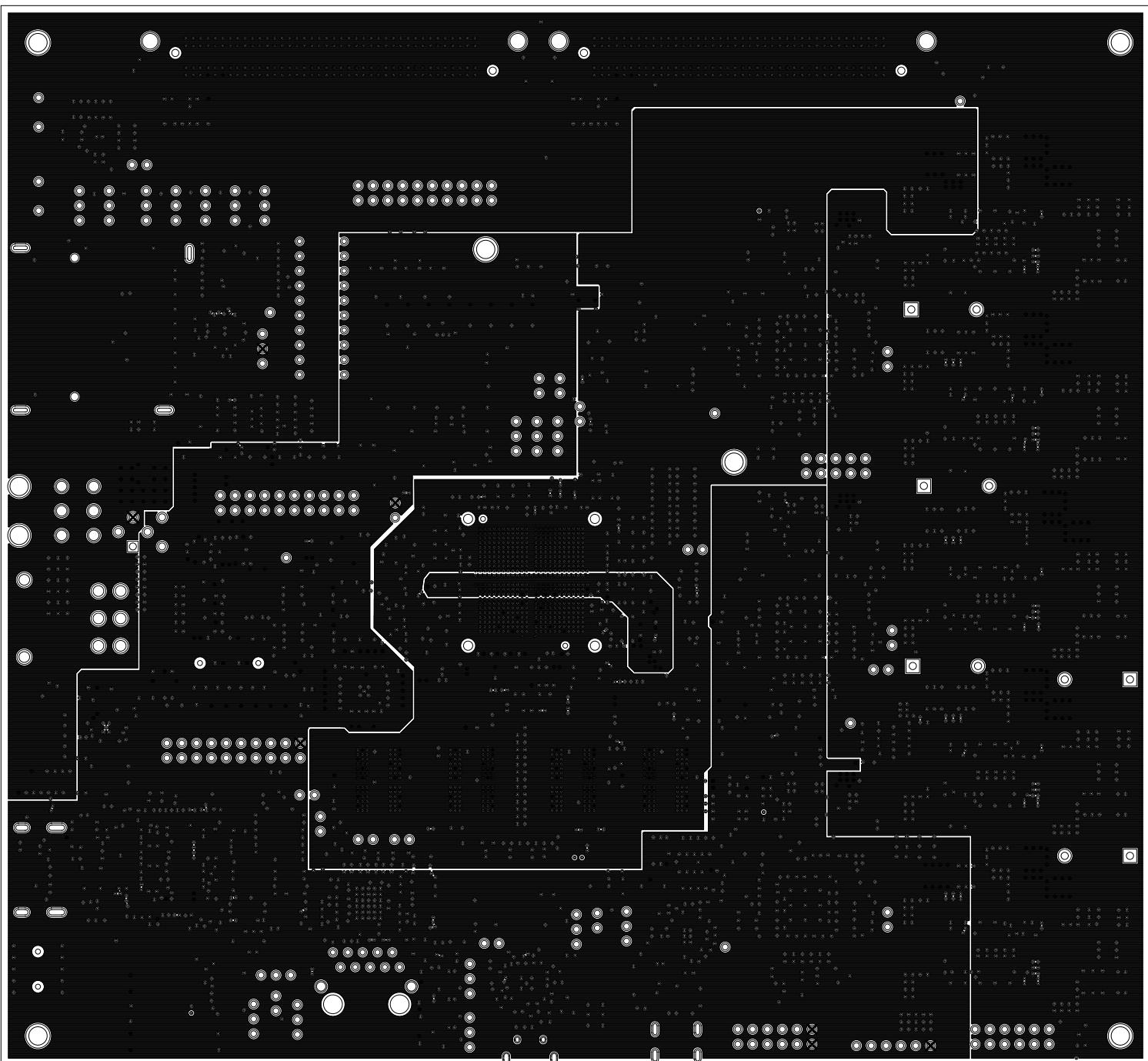
Layer: 05_SIG2	Sheet: 05 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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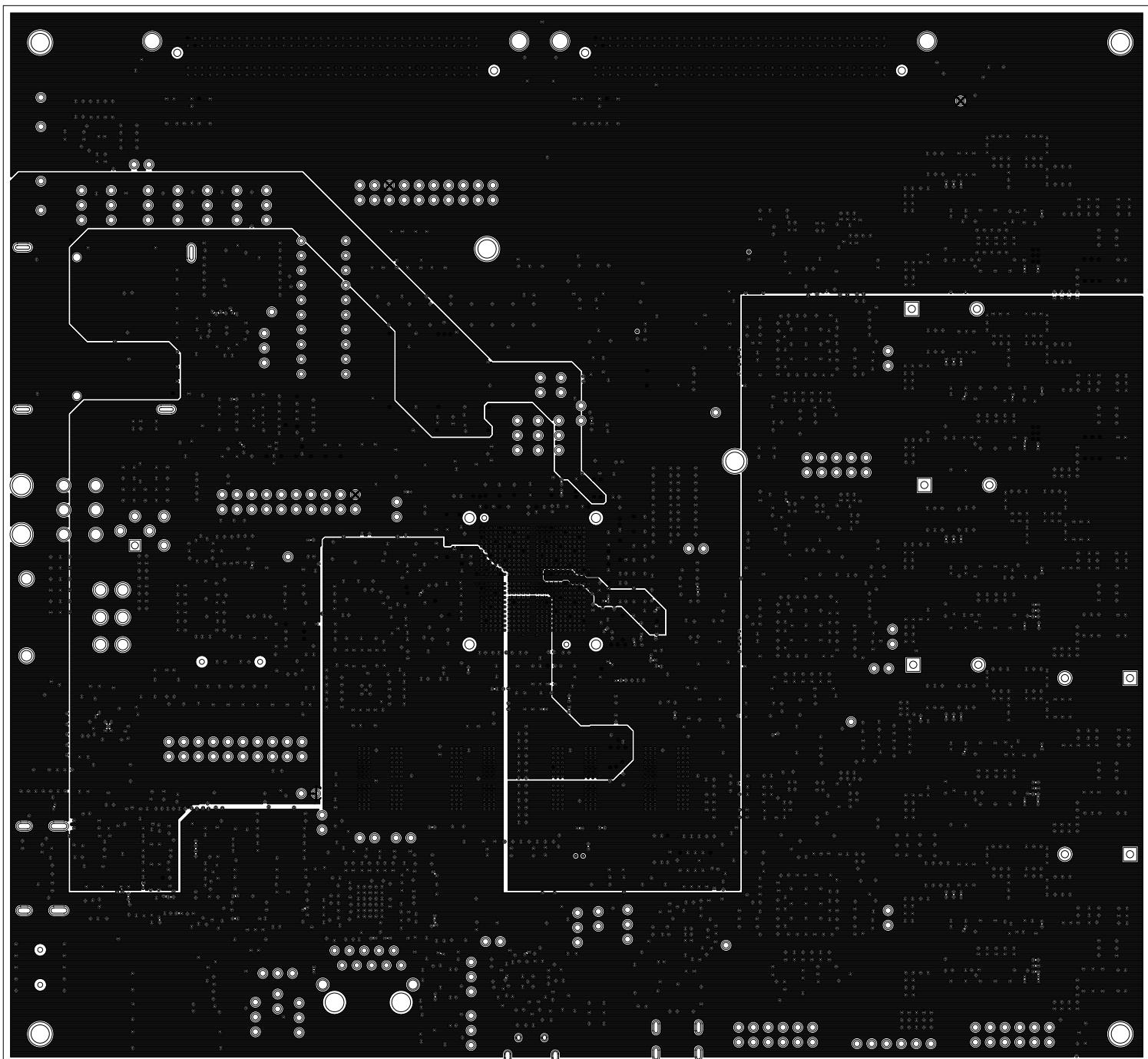
Layer: 06_GND3	Sheet: 06 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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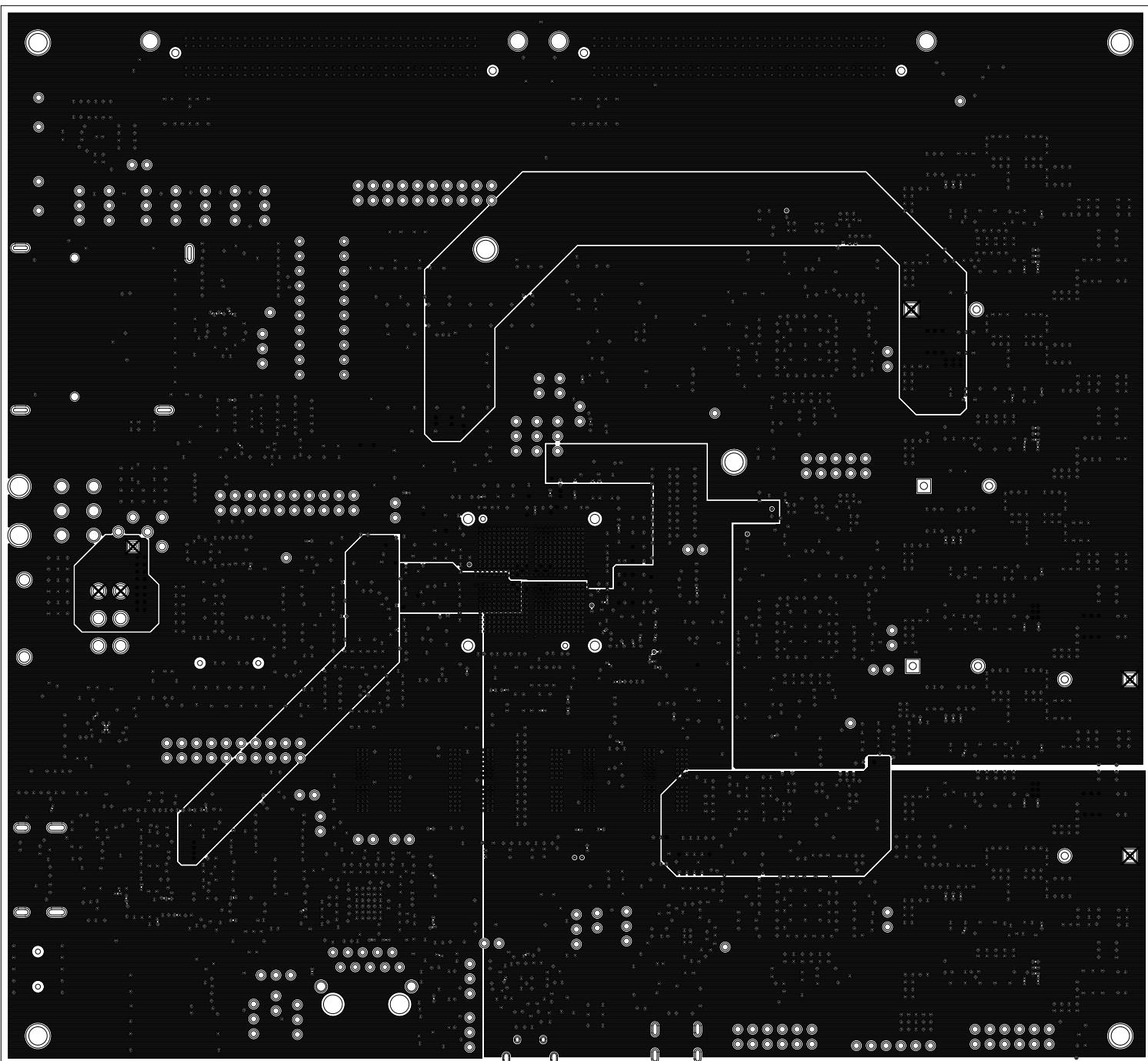
Layer: 07_PWR1	Sheet: 07 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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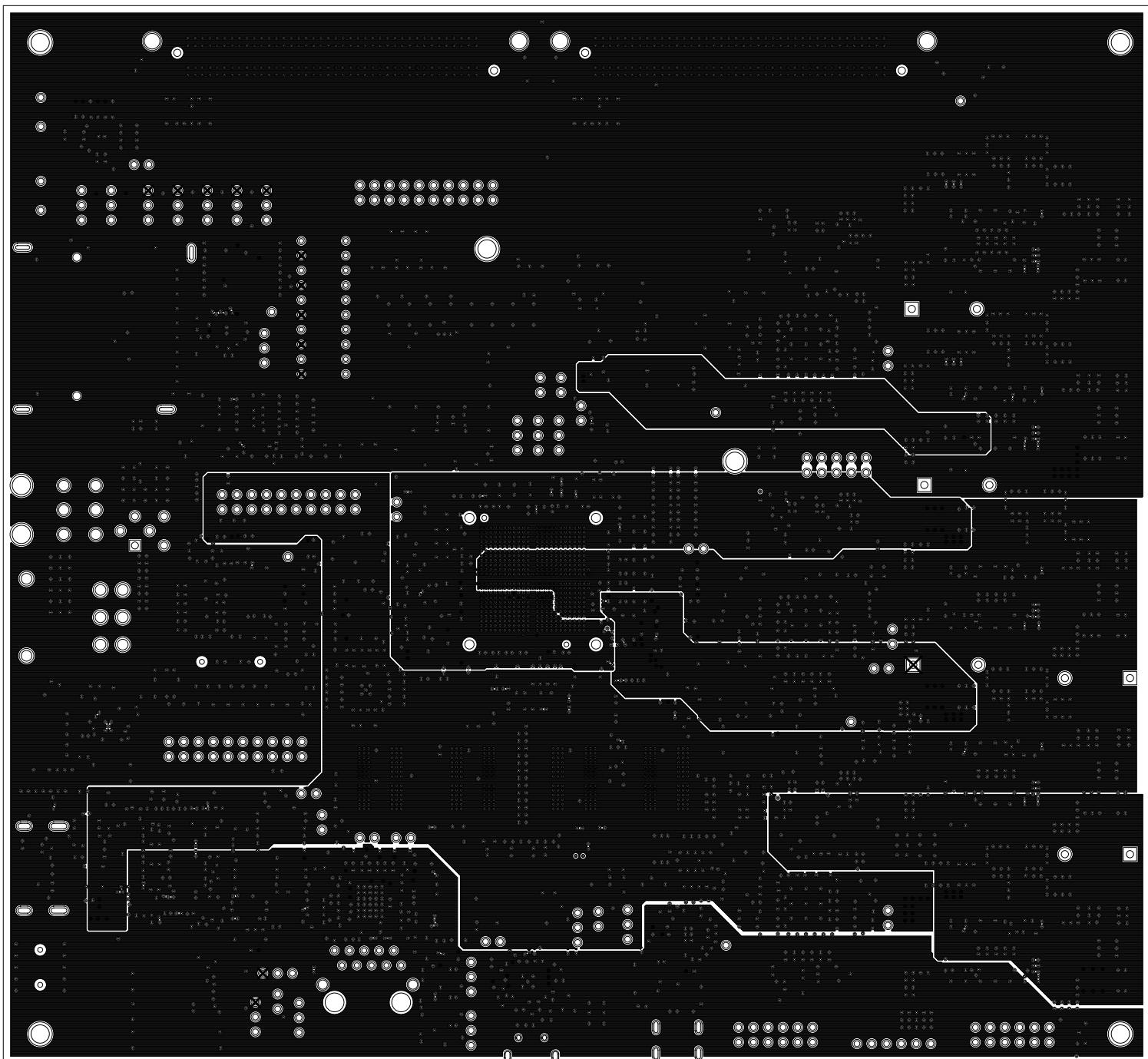
Layer: 08_PWR2	Sheet: 08 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
Project Number: 1280617	REV. 1.1
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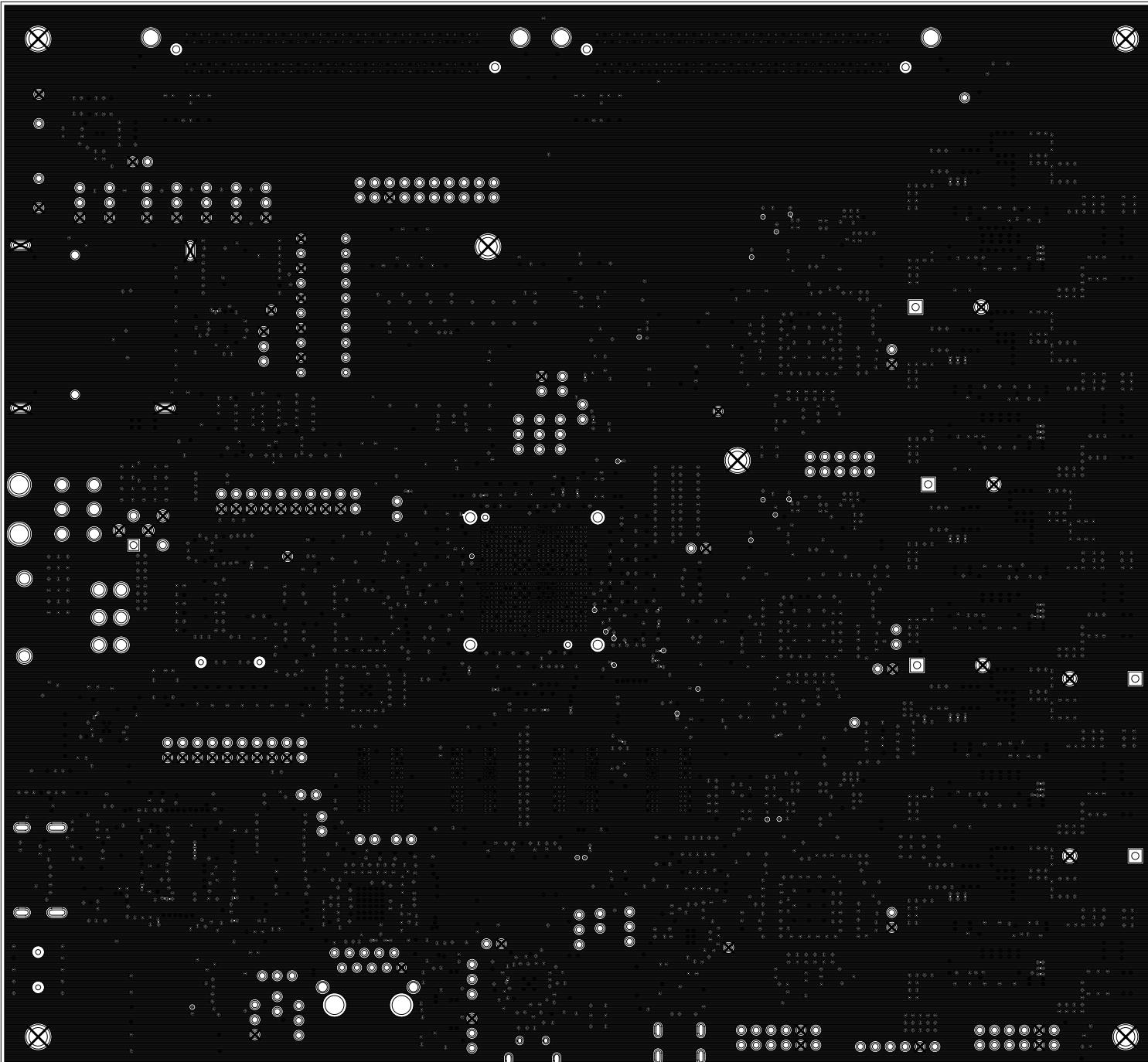
Layer: 09_PWR3	Sheet: 09 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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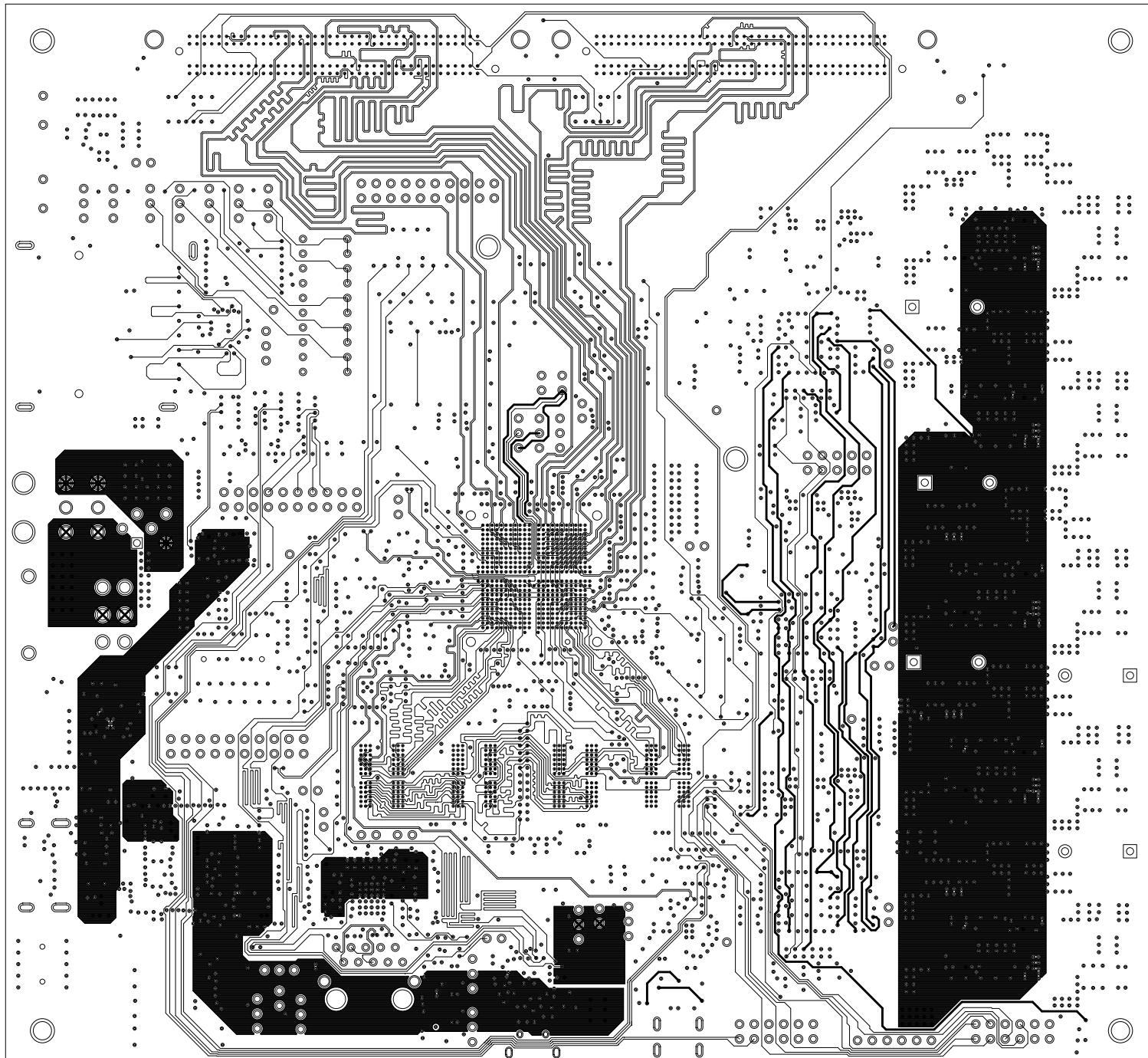
Layer: 10_PWR4	Sheet: 10 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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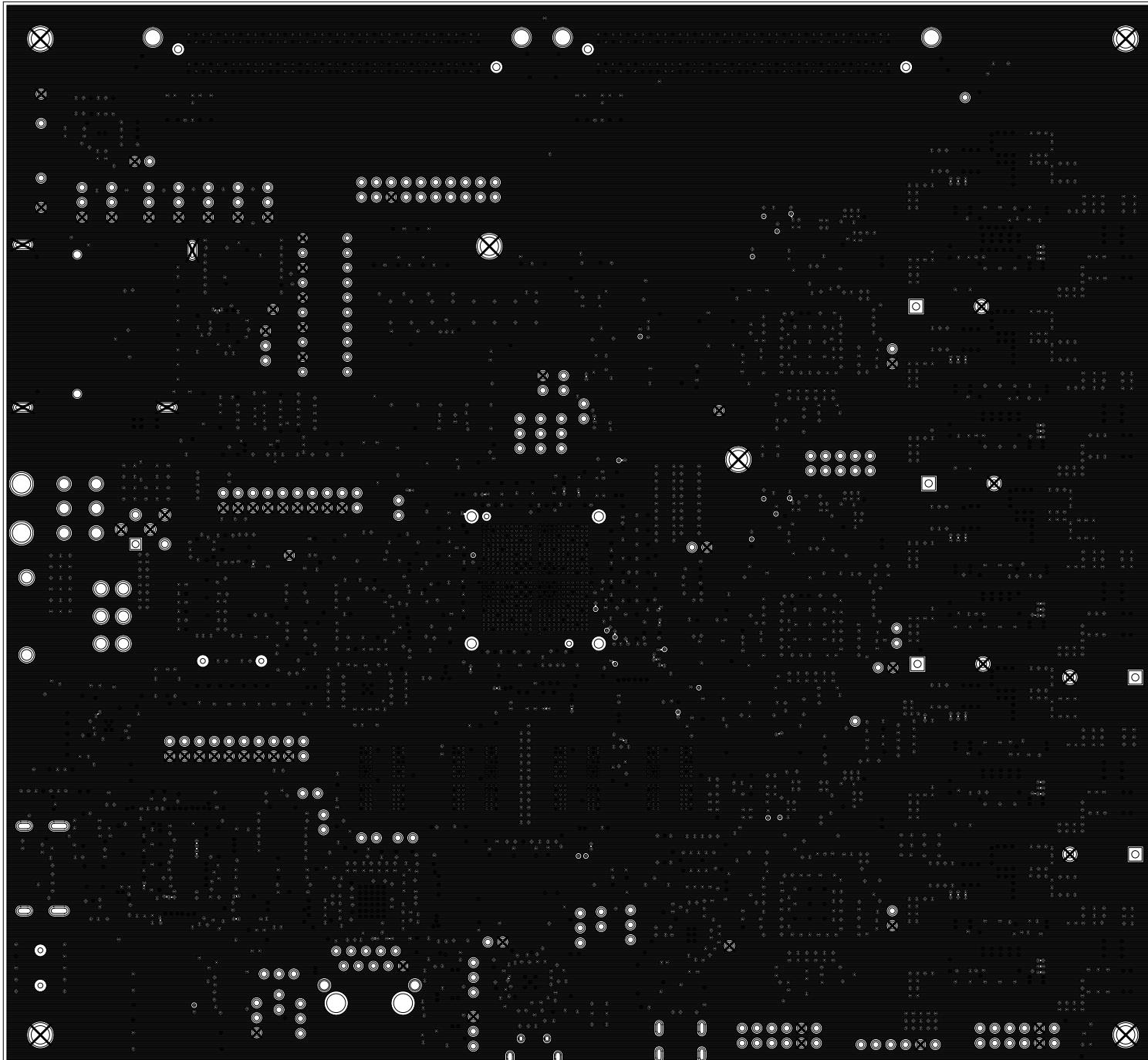
Layer: 11_GND4	Sheet: 11 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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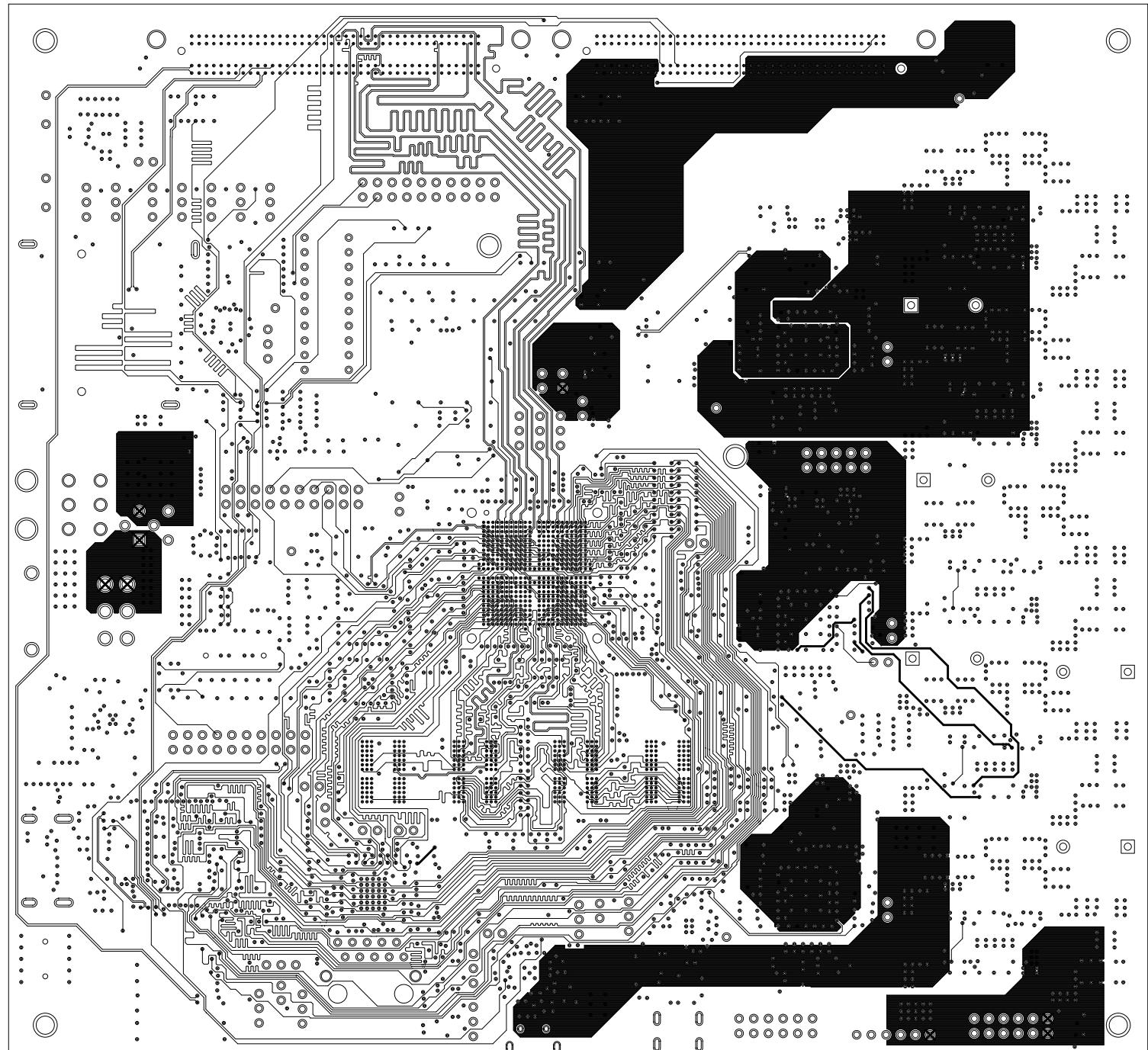
Layer: 12_SIG3	Sheet: 12 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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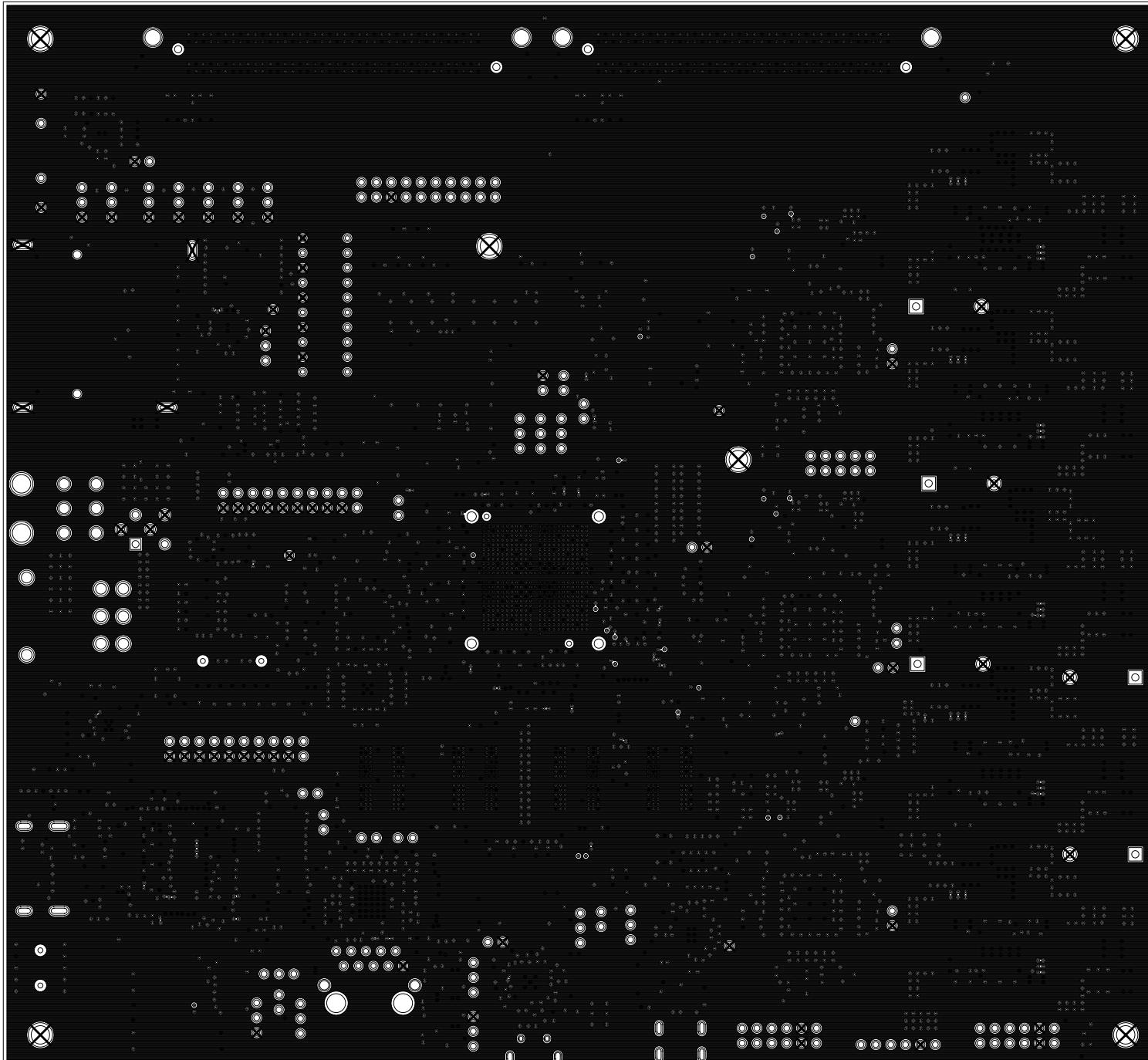
Layer: 13_GND5	Sheet: 13 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011		



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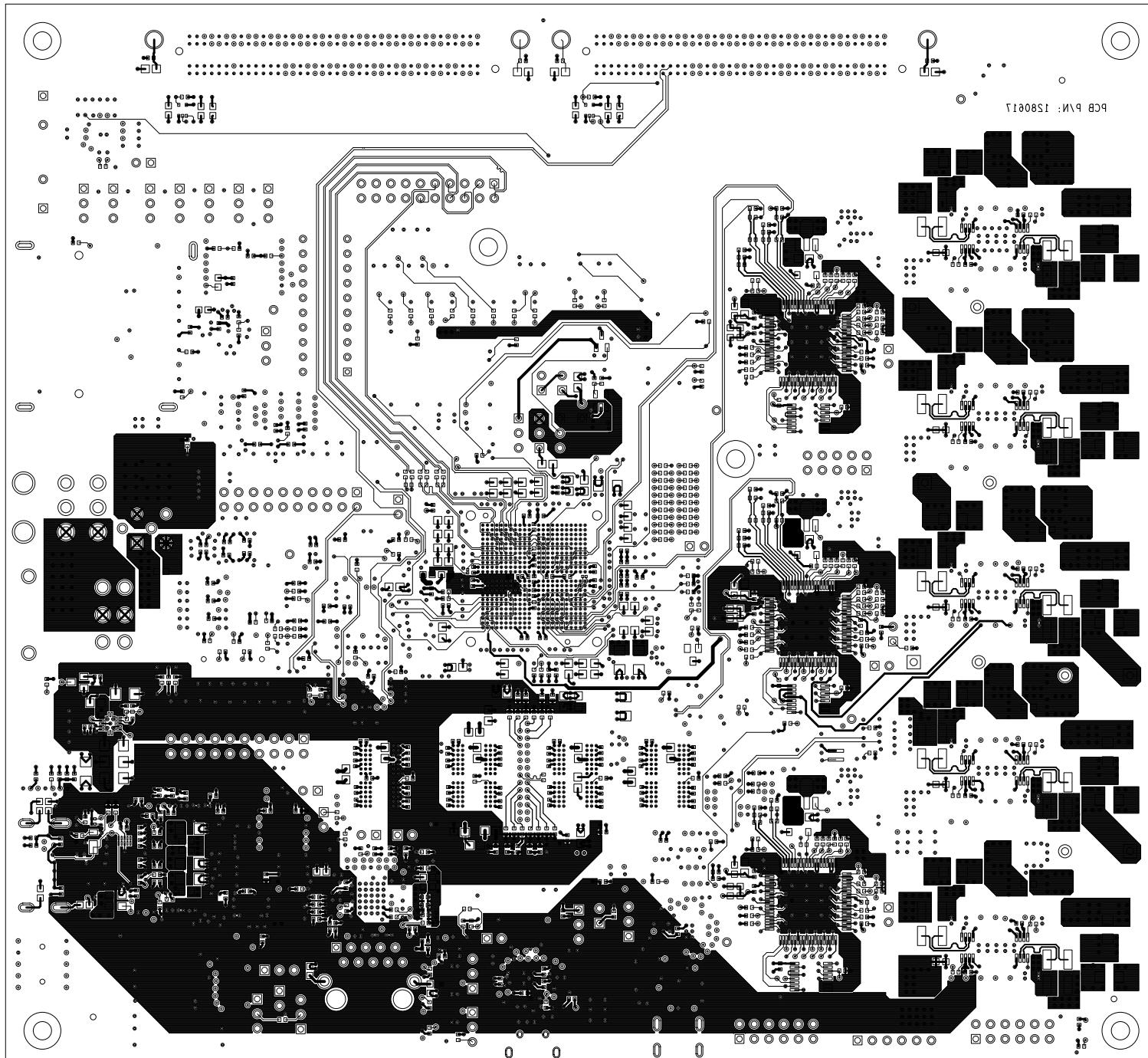
Layer: 14_SIG4	Sheet: 14 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011



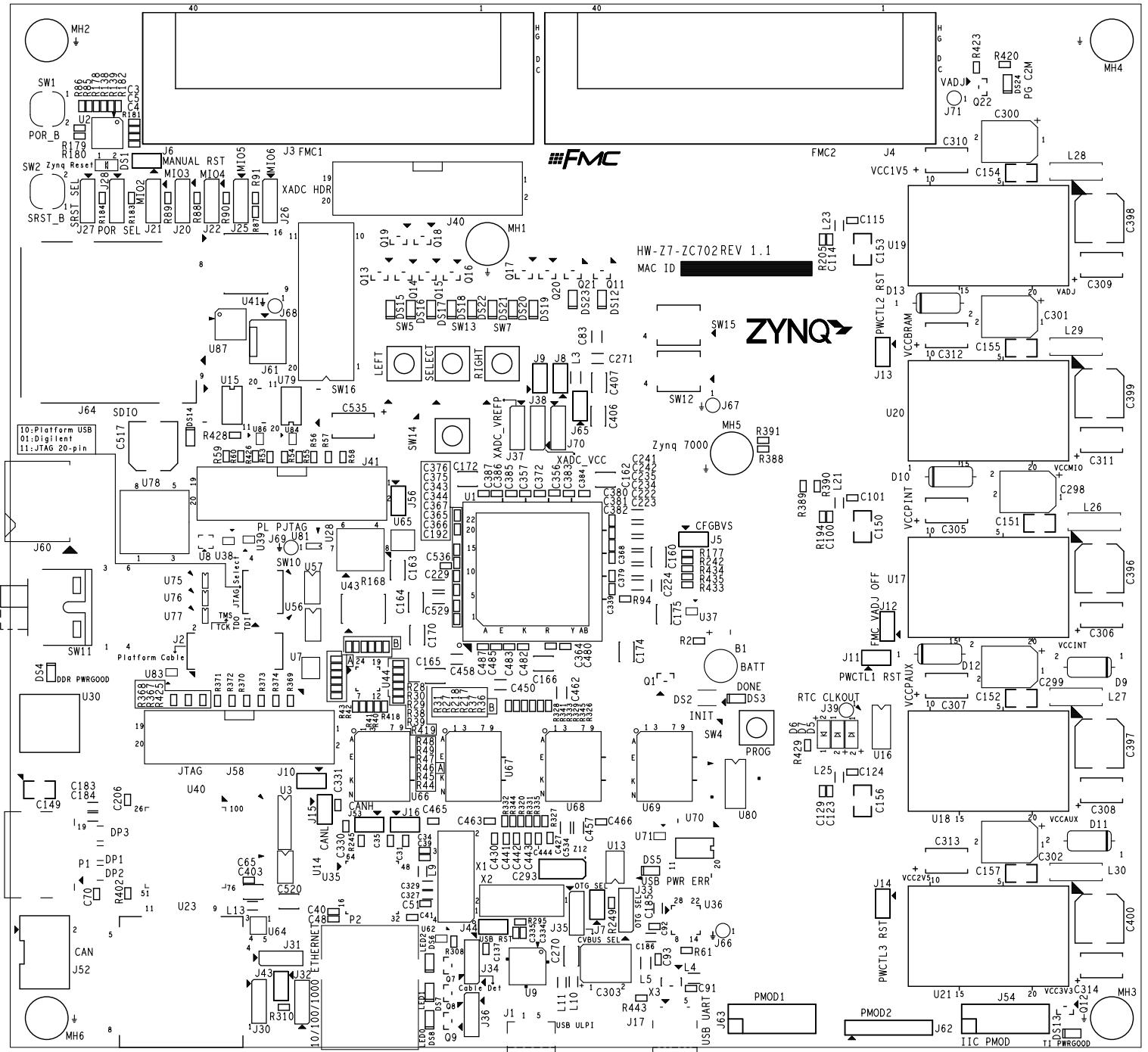
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Layer: 15_GND6	Sheet: 15 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV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

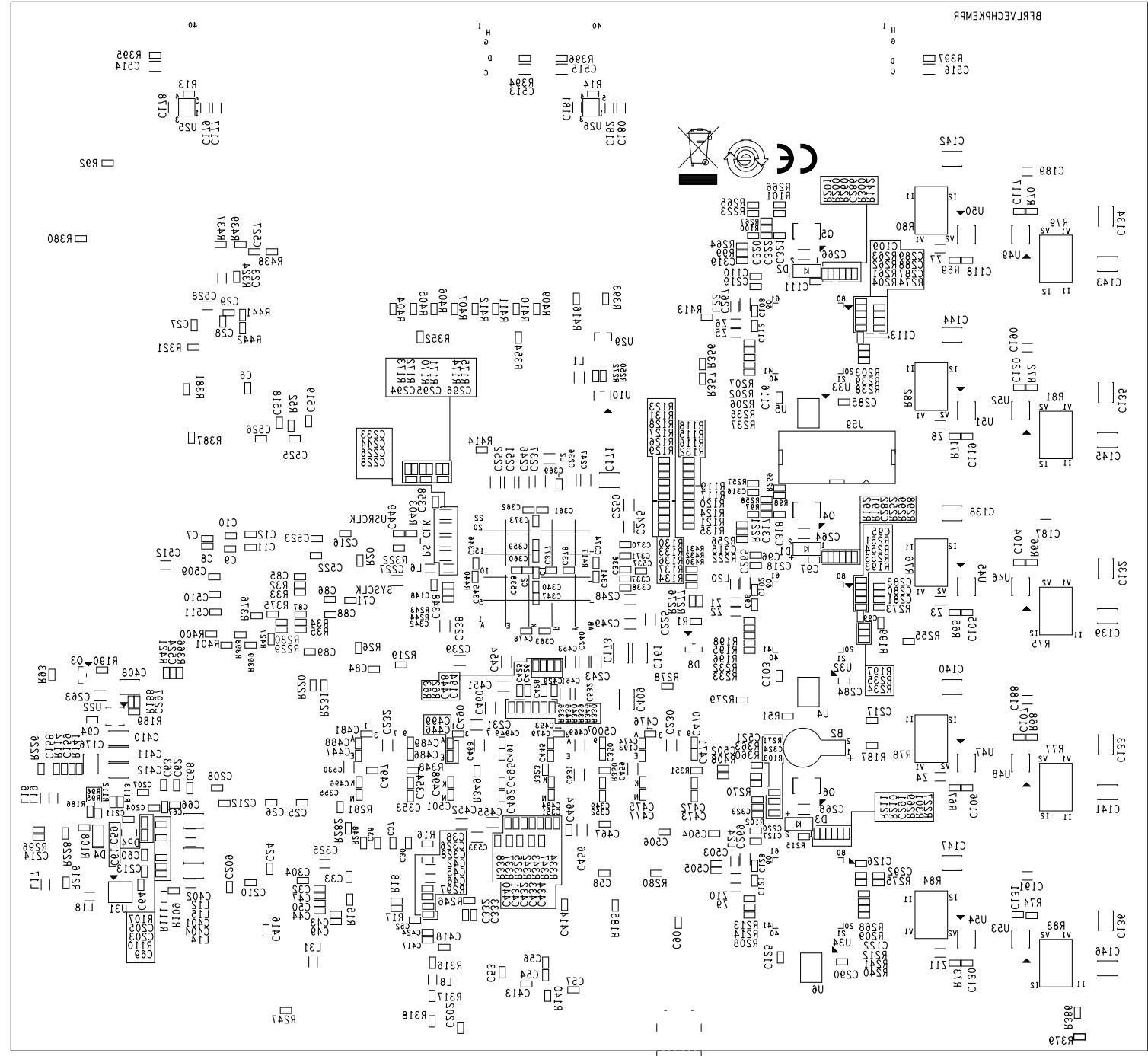


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DESIGNED BY:	Layer: 16_BOTTOM	Sheet: 16	of: 24	
WHIZZ SYSTEMS INC. 3240 SCOTT BLVD., SANTA CLARA, CA 95054 <a href="http://www.whizzsystems.com">www.whizzsystems.com</a>	Layout Engineer: Fawad Munawar	Company Name:	XILINX SYSTEMS INC.	
	Design Engineer: Brian Forsse	Project Name:	HW-Z7-ZC702	
TEL: 408-980-0400 FAX: 408-980-1555	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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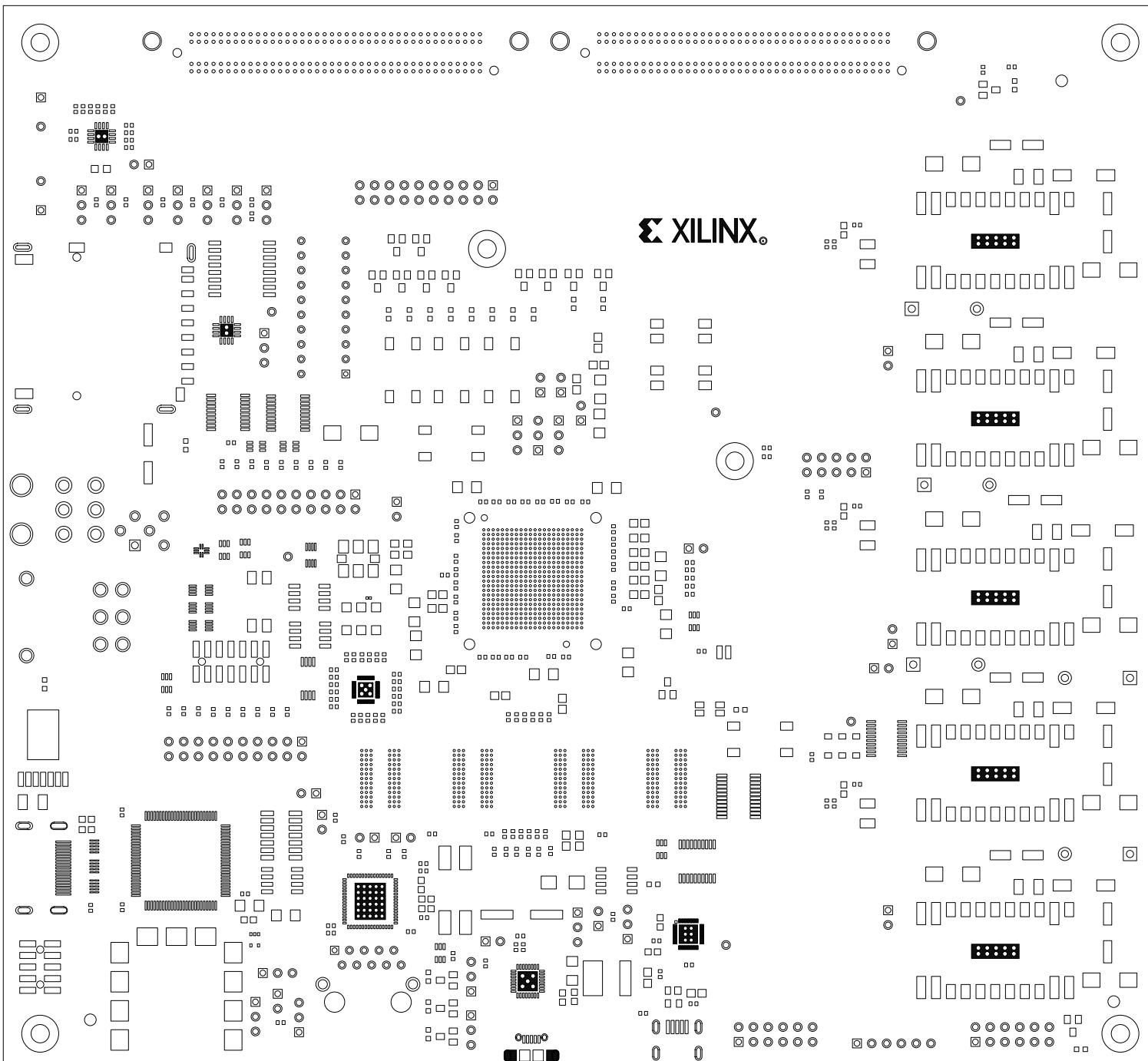
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Layer: 17_SILK_TOP	Sheet: 17 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
: 03-15-2013		LATEST MECHANICAL REV OR DATE: 09.27.2011	



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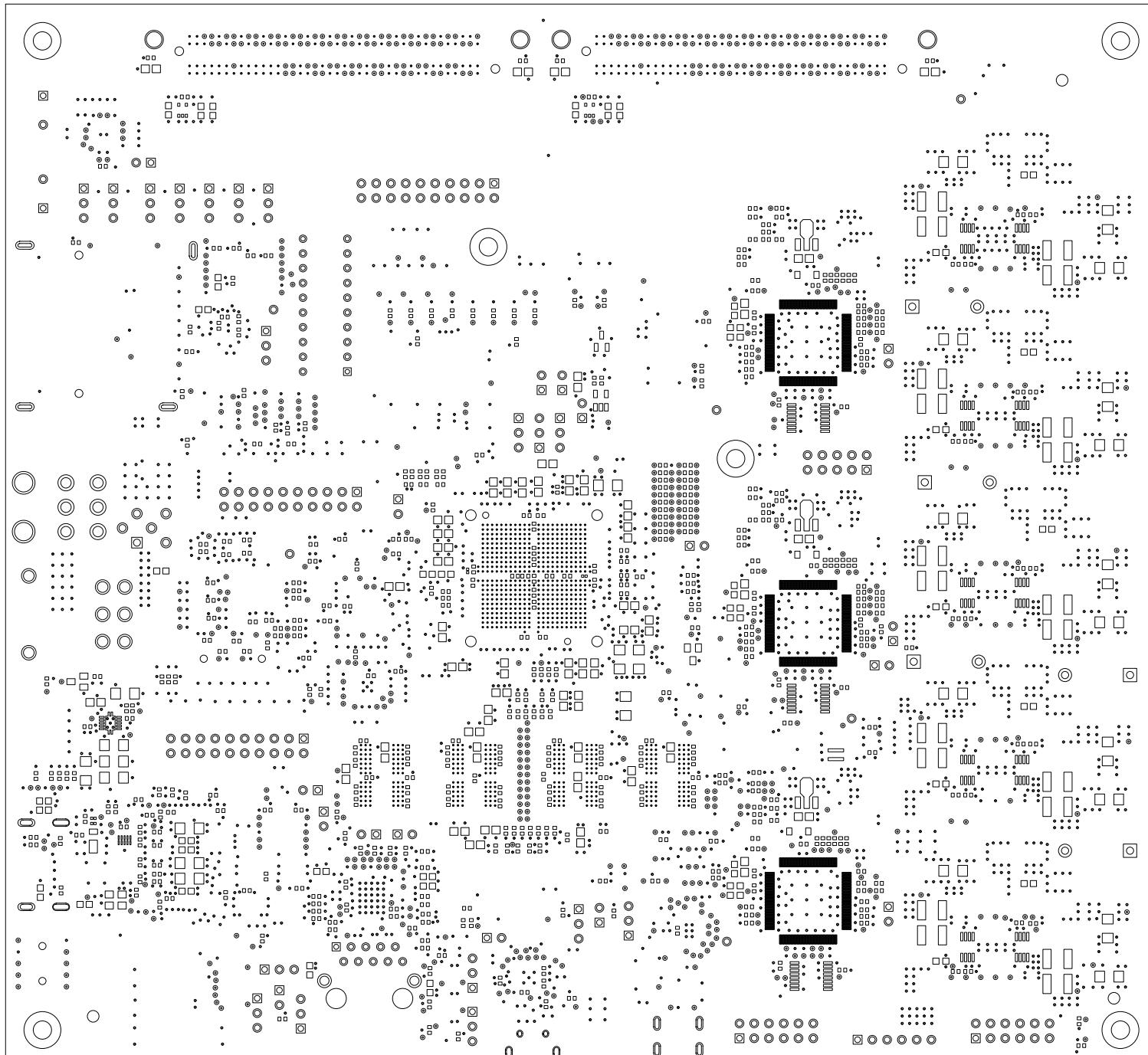
Layer: 18_SILK_BOT	Sheet: 18 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: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



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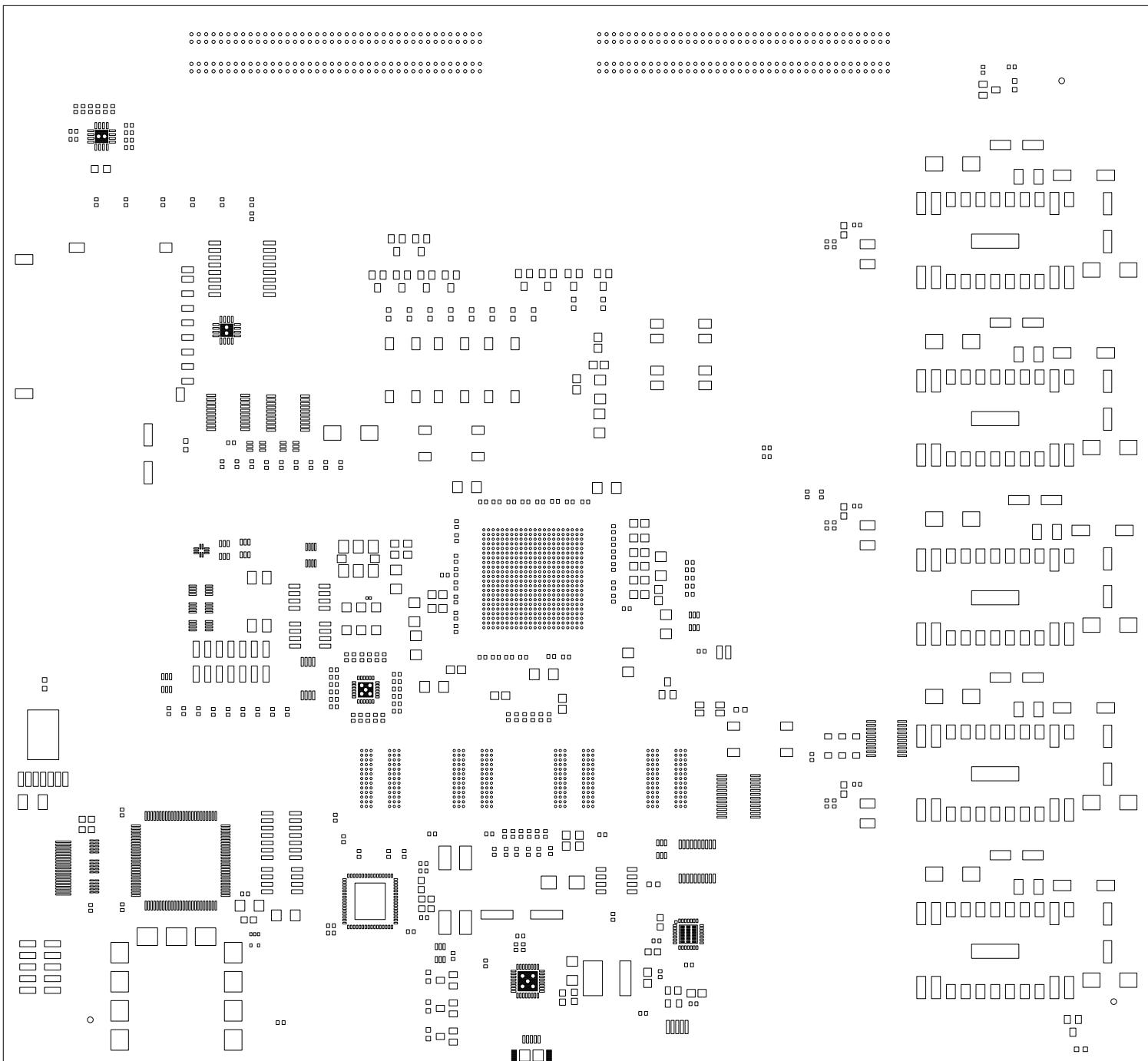
Layer: 19_SMASK_TOP	Sheet: 19 of: 24
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702
Whizz Job Number: 6092	Date: 05.11.2012
Project Number: 1280617	REV. 1.1
LATEST NETLIST REV OR DATE: 03-15-2013	LATEST MECHANICAL REV OR DATE: 09.27.2011



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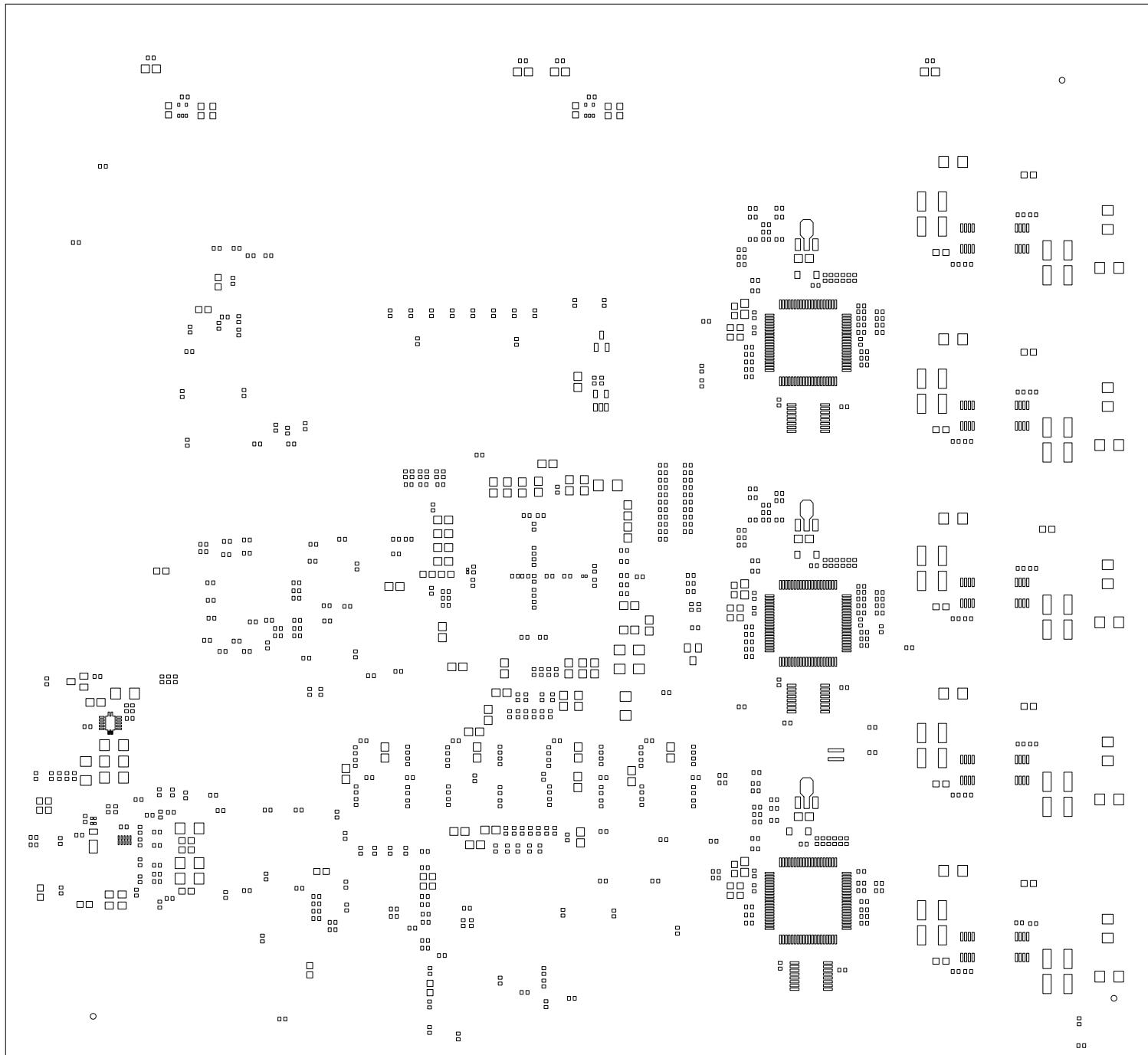
Layer: 20_SMASK_BOT	Sheet: 20 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
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Layer: 21_PMASK_TOP	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



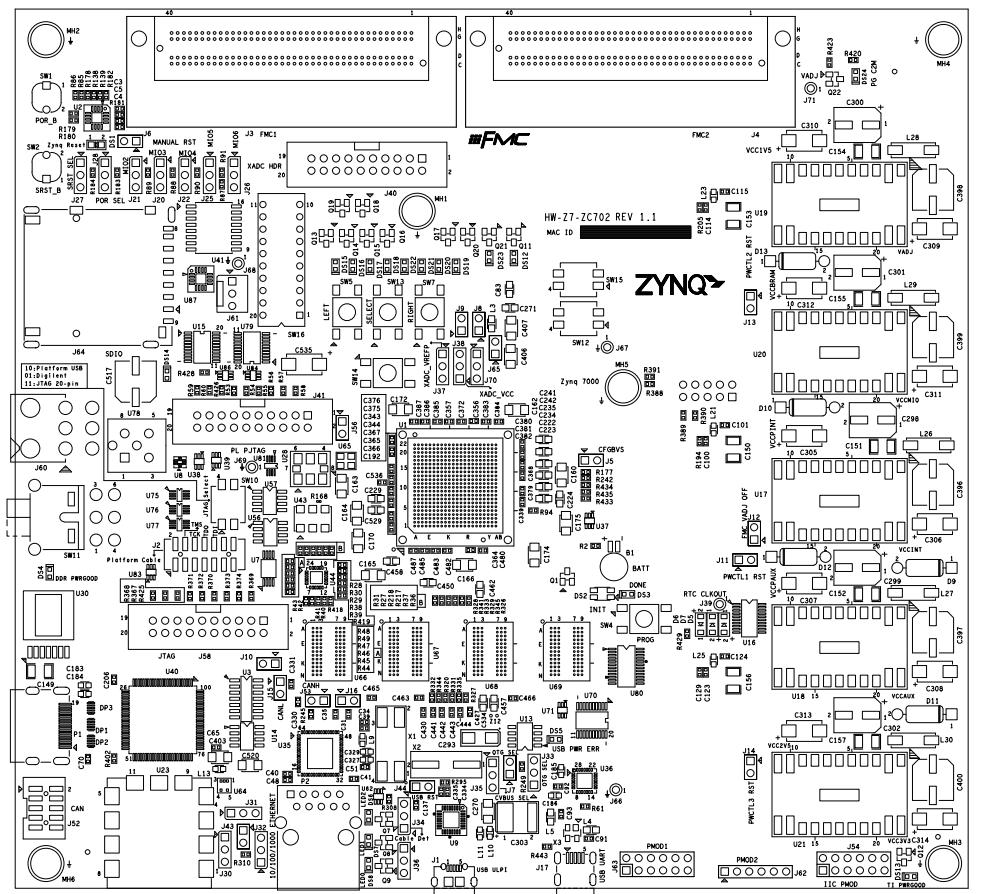
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Layer: 22_PMASK_BOT	Sheet: 22 of: 24		
Layout Engineer: Fawad Munawar	Company Name: XILINX SYSTEMS INC.		
Design Engineer: Brian Forsse	Project Name: HW-Z7-ZC702		
Whizz Job Number: 6092	Date: 05.11.2012	Project Number: 1280617	REV. 1.1
LATEST NETLIST 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. FABRICATION TO IPC-A-600 CURRENT REVISION  
 2. BOARD SHALL MEET THE INSPECTION CRITERIA OF  
 a- ACCEPTABILITY AS PER IPC-A-600 (LATEST REVISION) CLASS II  
 b- QUALIFICATION AND PERFORMANCE AS PER IPC-6012 (LATEST REVISION) CLASS II  
 3 MATERIAL: POLYCLAD 370 HR (RoHS COMPLIANT MATERIAL) OR EQUIVALENT. GLASS  
 TRANSITION TEMPERATURE MUST MEET OR EXCEED THE TEMPERATURE EXHIBITED  
 WITH HIGH TEMPERATURE PROCESSES ASSOCIATED WITH LEAD FREE ASSEMBLY.  
 4. APPLY SOLDER MASK OVER BASE COPPER (SABC) 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  
 PUS .4MIL FROM BOTTOM.  
 b) ALL TEST POINT VIAS SHOWN IN DATA AS ONE TO ONE SOLDER MASK RELIEF ON TEST SIDE, SHALL BE  
 FULLY EXPOSED AND ACCESSIBLE ON FINISHED BOARD.  
 c) PLUG TENTED VIA DRILLS IN BGA AREA FROM TOP SIDE ONLY.

7. SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION OF + / - .0002"WITH APPLICABLE  
 HOLE / PAD.

8. FINISH: GOLD IMMERSION.

9. SILKSCREEN USING WHITE - HAVEN PC421 ( NON-CONDUCTIVE OR EQUIVALENT RoHS COMPLIANT MATERIAL )  
 DO NOT 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 THAT ARE LESS THAN .003" IN WIDTH BETWEEN ANTI-PAD TO PLANE EDGE 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, NO LESS OR EQUAL TO THE .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.

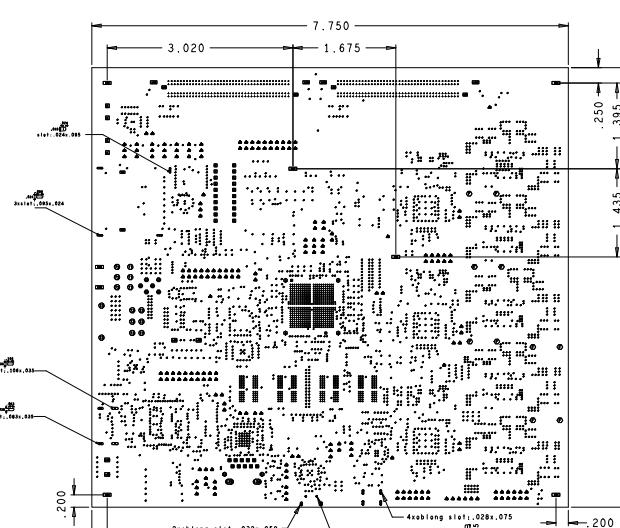
AGND3\_9248 SHORTED TO DGND3\_9248.

VTTDDR\_PS SHORTED TO 3TN364.

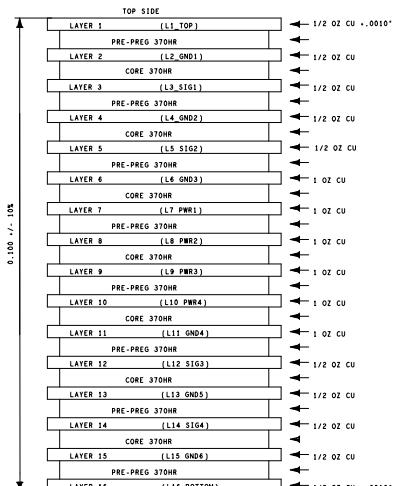
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	1.1	INITIAL RELEASE	05/11/12 BF

F

F



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



TOP SIDE

LAYER 1 (L1\_TOP)  
PRE-PREG 370HR  
1/2 OZ CU

LAYER 2 (L2\_GND1)  
CORE 370HR  
1/2 OZ CU

LAYER 3 (L3\_SIG1)  
PRE-PREG 370HR  
1/2 OZ CU

LAYER 4 (L4\_GND2)  
CORE 370HR  
1/2 OZ CU

LAYER 5 (L5\_SIG2)  
PRE-PREG 370HR  
1/2 OZ CU

LAYER 6 (L6\_GND3)  
CORE 370HR  
1 OZ CU

LAYER 7 (L7\_WRL1)  
PRE-PREG 370HR  
1 OZ CU

LAYER 8 (L8\_WRL2)  
CORE 370HR  
1 OZ CU

LAYER 9 (L9\_PWR3)  
PRE-PREG 370HR  
1 OZ CU

LAYER 10 (L10\_PWR4)  
CORE 370HR  
1 OZ CU

LAYER 11 (L11\_GND4)  
PRE-PREG 370HR  
1 OZ CU

LAYER 12 (L12\_SIG3)  
CORE 370HR  
1/2 OZ CU

LAYER 13 (L13\_GND5)  
PRE-PREG 370HR  
1/2 OZ CU

LAYER 14 (L14\_SIG4)  
CORE 370HR  
1/2 OZ CU

LAYER 15 (L15\_GND6)  
PRE-PREG 370HR  
1/2 OZ CU

LAYER 16 (L16\_BOTTOM)  
1/2 OZ CU +.0010"

BOTTOM SIDE

DETAIL A

SCALE:NONE

3

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

LAYER	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				XILINX SYSTEMS, INC
XXX	$\pm .010$	ANGLES		
XX	$\pm .030$	XX, XX	$\pm \pm .30^{\circ}$	
X	$\pm .100$	XX, X	$\pm \pm 1.0^{\circ}$	
			$\pm 5.0^{\circ}$	
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994				
WHIZZ SYSTEMS INC. 3240 SCOTT BLVD., SANTA CLARA, CA 95054 TEL: 408-980-0400		ENGR: Brian Forssé	05.11.12	PROJECT NAME: HW-Z7-ZC702
DO NOT SCALE DRAWING		APPROVAL: Brian Forssé	05.11.12	SIZE: F FAB DWG. NO. 6092
				REV. 1.1
				1280617
				SHEET 1 OF 1