

## REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1.1	INITIAL RELEASE	11/03/12	BF

NOTES: (UNLESS OTHERWISE SPECIFIED)  
THIS FAB SHOULD BE 'RoHS COMPLIANT'.

- FABRICATE TO IPC-A-600, CURRENT REVISION
- BOARD MEET THE INSPECTION CRITERIA OF  
A- ACCEPTABILITY AS PER IPC-A-600 (LATEST REVISION) CLASS II  
B- INSPECTION AND PERFORMANCE AS PER IPC-A-6012 (LATEST REVISION) CLASS II
- MATERIAL NECO 4000-L2EP SMT RoHS COMPLIANT MATERIAL OR EQUIVALENT GLASS  
TRANSITION TEMPERATURE MUST MEET OR EXCEED THE TEMPERATURE EXHIBITED  
WITH HIGH TEMPERATURE PROCESSES ASSOCIATED WITH LEAD FREE ASSEMBLY.
- APPLY SOLDER MASK OVER BARE COPPER (SMOBC) IAW  
IPC-SM-840. BOTH SIDES. USING LPI, COLOR GREEN.
- LPI SOLDER MASK TAIYO PSR4000 (RoHS COMPLIANT MATERIAL) OR EQUIVALENT WILL BE USED ON BOTH  
SIDES.

## (6) SOLDER MASK REQUIREMENTS FOR VIAS:

- VIA DRILLS TENTED (COVERED) FROM TOP SIDE AND ENCRACED WITH  
SOLDER MASK RELIEF OF DRILL PEG AND FROM BOTTOM.
- ALL TEST POINT VIAS SHOULD HAVE DATA AS ONE TO ONE SOLDER MASK RELIEF ON TEST SIDE, SHALL BE  
FULLY EXPOSED AND ACCESSIBLE ON FINISHED BOARD.
- PLUG TENTED VIA DRILLS FROM TOP SIDE ONLY AND FOLLOW GERBER FOR REST.

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)  
BOTH SIDES 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. UL-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  
SLIVERS THAT ARE LESS THAN 0.003" 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 WORK. THIS IS A  
COMPARISON TO BE PASSED WITH THE DESIGNER AFTER THE REMOVAL OF SLIVERS. A REQUIREMENT  
FOR SLIVER REMOVAL ABOVE OR EQUAL TO THE 0.003" COPPER WIDTH MUST BE ADDRESSED AND APPROVED  
IN WRITING BY SUPPLIER.

14. VIAS ARE SUPPOSED TO BE DIRECTLY CONNECTED TO RESPECTIVE PLANE.

15. FOAR IMPEDANCE CONTROL DETAILS REFER TO THE FILE '6041\_VC707\_STACK-UP.PDF' PROVIDED WITH GERBER DATA.

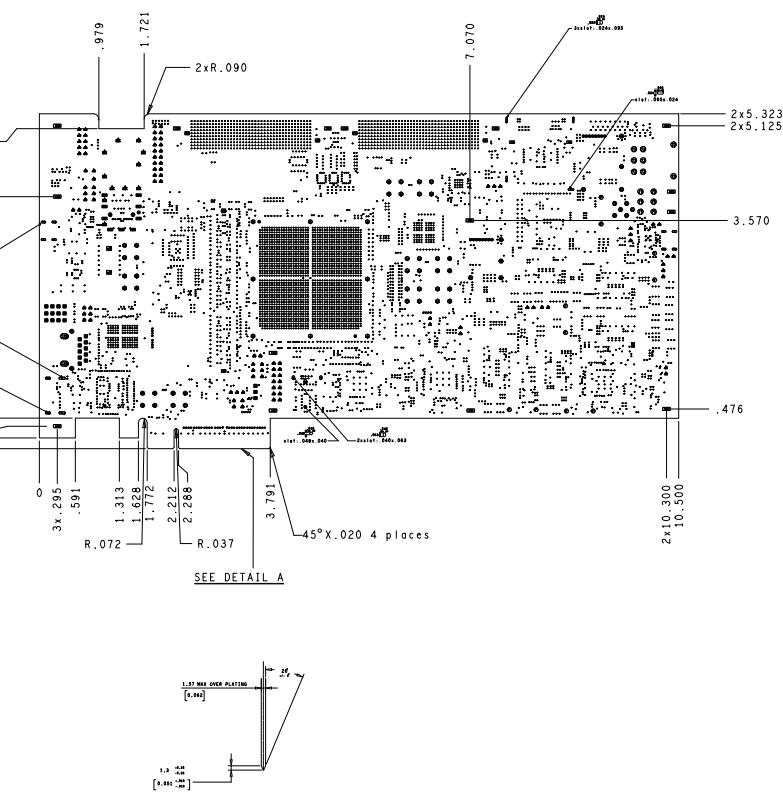
16. INTENTIONAL SHORT:

PLEASE REPORT ANY SHORT OTHER THAN THESE:  
GND SHOTED TO DGND1\_9248, DGND2\_9248, DGND3\_9248.  
DGND1\_9248 SHOTED TO AGND1\_9248  
DGND2\_9248 SHOTED TO AGND2\_9248  
DGND3\_9248 SHOTED TO AGND3\_9248

17. HARD GOLD ON FINGERS, 30-50 MICRO INCHES OF GOLD OVER 150-200 MICRO INCHES OF NICKLE MINIMUM.

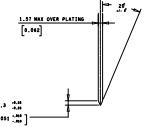
TOP SIDE	SINGLE ENDED		EDGE-COUPLED DIFFERENTIAL			
	COPPER WEIGHT	COPPER THICKNESS	TRACE WIDTH	TARGET IMPEDANCE Z OHMS	TRACE WIDTH/Z MARGIN	TARGET IMPEDANCE Z OHMS
LAYER 1 TOP	0.5 OZ	2.0	5.5 MIL	50	0.75MIL/5.5MIL	65
LAYER 1 GND1	0.5 OZ	0.6	7.75 MIL	40	6 MIL/5.5 MIL	100
CORE						
LAYER 3 SIG1	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	65
PRE-PREG			3.5 MIL	40	3.5 MIL/6.5 MIL	100
LAYER 4 GND2	0.5 OZ	0.6	5.5 MIL	50	5.1 MIL/5.0 MIL	80
CORE						
LAYER 5 SIG2	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	65
PRE-PREG			3.5 MIL	40	3.5 MIL/6.5 MIL	100
LAYER 6 GND3	0.5 OZ	0.6	5.5 MIL	50	5.1 MIL/5.0 MIL	80
CORE						
LAYER 7 SIG3	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	65
PRE-PREG			3.5 MIL	40	3.5 MIL/6.5 MIL	100
LAYER 8 GND4	1.0 OZ	1.2	5.5 MIL	50	5.1 MIL/5.0 MIL	80
CORE						
LAYER 9 PWR1	1.0 OZ	1.2				
PRE-PREG						
LAYER 10 PWR2	0.5 OZ	0.6				
CORE						
LAYER 11 GND5	0.5 OZ	0.6				
PRE-PREG						
LAYER 12 SIG4	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	65
CORE			3.5 MIL	40	3.5 MIL/6.5 MIL	100
LAYER 13 GND6	0.5 OZ	0.6				
PRE-PREG						
LAYER 14 SIG5	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	65
CORE			3.5 MIL	40	3.5 MIL/6.5 MIL	100
LAYER 15 GND7	0.5 OZ	0.6				
PRE-PREG						
LAYER 16 BOT	0.5 OZ+PLATING	2.0	5.5 MIL	50	5.75MIL/5.25MIL	85
BOTTOM SIDE			7.75 MIL	40	6 MIL/5.5 MIL	100

CROSS SECTION DETAIL



DRILL CHART: TOP to BOTTOM ALL UNITS ARE IN MILS				
FIGURE	FHS	TOLERANCE	PLATED	QTY
-	10.0	+0.0/-10.0	PLATED	6083
-	12.0	+0.0/-12.0	PLATED	62
-	28.0	+3.0/-3.0	PLATED	16
-	33.0	+3.0/-3.0	PLATED	1
-	35.0	+3.0/-3.0	PLATED	25
-	40.0	+3.0/-3.0	PLATED	99
-	41.0	+3.0/-3.0	PLATED	11
-	48.0	+3.0/-3.0	PLATED	6
-	50.0	+3.0/-3.0	PLATED	10
-	55.0	+3.0/-3.0	PLATED	8
-	63.0	+3.0/-3.0	PLATED	42
-	71.0	+3.0/-3.0	PLATED	6
-	73.0	+3.0/-3.0	PLATED	8
-	106.0	+3.0/-3.0	PLATED	4
-	110.0	+3.0/-3.0	PLATED	3
-	125.0	+3.0/-3.0	PLATED	8
-	33.0	+1.0/-1.0	NON-PLATED	2
-	37.0	+2.0/-2.0	NON-PLATED	9
-	40.0	+2.0/-2.0	NON-PLATED	2
-	43.0	+3.0/-3.0	NON-PLATED	1
-	44.0	+1.0/-0.0	NON-PLATED	1
-	50.0	+2.0/-2.0	NON-PLATED	4
-	54.0	+2.0/-2.0	NON-PLATED	2
-	61.0	+3.0/-3.0	NON-PLATED	2
-	63.0	+2.0/-2.0	NON-PLATED	1
-	67.0	+4.0/-4.0	NON-PLATED	8
-	128.0	+2.0/-2.0	NON-PLATED	2
-	48.0x40.0	+3.0/-3.0	PLATED	1
-	63.0x40.0	+3.0/-3.0	PLATED	2
-	75.0x28.0	+2.0/-2.0	PLATED	8
-	83.0x35.0	+2.0/-2.0	PLATED	2
-	95.0x24.0	+3.0/-3.0	PLATED	4
-	106.0x35.0	+2.0/-2.0	PLATED	2

TOTAL HOLES: 6445



UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:	
LINEAR DIMENSIONS      ANGLES				XILINX, INC	
.XX	= ± .010	XX-XX	= ± 0.30	PROJECT NAME:	
.XX	= ± .030	XX-X	= ± 1.20	HW-VC707	
X	= ± .100	XX	= ± 5.0	ENGR:	Brian Forsse
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		CHECKED:	Rashid Mehmood	APPROVAL:	Brian Forsse
		DRAWN:	Fawad Munawar	11-03-12	11-03-12
3240 SCOTT BLVD SANTA CLARA, CA 95054 TEL: 408-980-0400					
DO NOT SCALE DRAWING		WHIZZ JOG NO.	6041	SIZE: D	FAB DWG. NO.
		SCALE: 1:1		1280586	
				REV.	1.1
				SHEET 1 OF 1	

REVISIONS			
ZONE	REV	DESCRIPTION	DATE APPROVED
	1.1	INITIAL RELEASE	11/03/12 BF

- NOTES: (UNLESS OTHERWISE SPECIFIED)  
THIS FAB SHOULD BE 'RoHS COMPLIANT'.
- FABRICATE TO IPC-A-600, CURRENT REVISION
  - BOARD MEET THE INSPECTION CRITERIA OF  
D- ACCEPTABILITY AS PER IPC-A-600 (LATEST REVISION) CLASS II
  - MATERIAL: UL94V-0, SMT, PCB BOARD, AND PERFORMANCE CLASS IS 6012 (LATEST REVISION) CLASS II.
  - MATERIAL: NELCO 4000-L2EP SMT, RoHS COMPLIANT MATERIAL OR EQUIVALENT. GLASS TRANSITION TEMPERATURE MUST MEET OR EXCEED THE TEMPERATURE EXHIBITED WITH HIGH TEMPERATURE PROCESSES ASSOCIATED WITH LEAD FREE ASSEMBLY.
  - APPLY SOLDER MASK OVER BARE COPPER (SMOBC) IAW IPC-SM-840. BOTH SIDES. USING LPI, COLOR GREEN.
  - LPI SOLDER MASK TAIYO PSR4000 (RoHS COMPLIANT MATERIAL) OR EQUIVALENT WILL BE USED ON BOTH SIDES.
  - SOLDER MASK REQUIREMENTS FOR VIAS:  
a) VIA DRILLS TENTED (COVERED) FROM TOP SIDE AND ENCRACED WITH SOLDER MASK RELIEF OF DRILL PEG AND FROM BOTTOM.  
b) ALL TEST POINT VIAS SHOULD HAVE 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 FROM TOP SIDE ONLY AND FOLLOW GERBER FOR REST.
  - SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION OF + / - 0.002" WITH APPLICABLE HOLE PAD.
  - FINISH: GOLD IMMERSION.
  - SILKSCREEN USING WHITE HAVEN PC421 (NON-CONDUCTIVE OR EQUIVALENT RoHS COMPLIANT MATERIAL) BOTH SIDES DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON SOLDER LANDS IS NOT ACCEPTABLE.
  - VENDOR LOGO AND DATE CODE TO BE MARKED SOLDER SIDE IN SILKSCREEN. MAXIMUM HEIGHT 0.12 INCHES.
  - ALL ELECTRICAL TESTS REQUIRED FOR CONTINUITY, BOARD SHALL HAVE A UL-RATING OF 94V-0. UL SYMBOL AND RATING SHALL BE MARKED SOLDER SIDE IN SILKSCREEN.
  - REMOVE ALL UNUSED PADS FROM INTERNAL LAYERS.
  - 274X GERBER/ODB+ USED FOR FAB MUST BE VERIFIED AGAINST THE PROVIDED IPC356 NETLIST. COPPER SLIVERS THAT ARE LESS THAN 0.003" 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 WORK. THIS IS A DESIGN CONSIDERATION AND BE PASSED WITHDRAWN AFTER THE REMOVAL OF THESE. THE REQUIREMENT FOR SLIVER REMOVAL ABOVE OR EQUAL TO THE 0.003" COPPER WIDTH MUST BE ADDRESSED AND APPROVED IN WRITING BY SUPPLIER.
  - VIAS ARE SUPPOSED TO BE DIRECTLY CONNECTED TO RESPECTIVE PLANE.
  - FOUR IMPEDANCE CONTROL DETAILS REFER TO THE FILE '6041\_VC707\_STACK-UP.PDF' PROVIDED WITH GERBER DATA.
  - INTENTIONAL SHORT:
- PLEASE REPORT ANY SHORT OTHER THAN THESE:  
GND SHOTED TO DGND1\_9248, DGND2\_9248, DGND3\_9248.  
DGND1\_9248 SHOTED TO AGND1\_9248  
DGND2\_9248 SHOTED TO AGND2\_9248  
DGND3\_9248 SHOTED TO AGND3\_9248

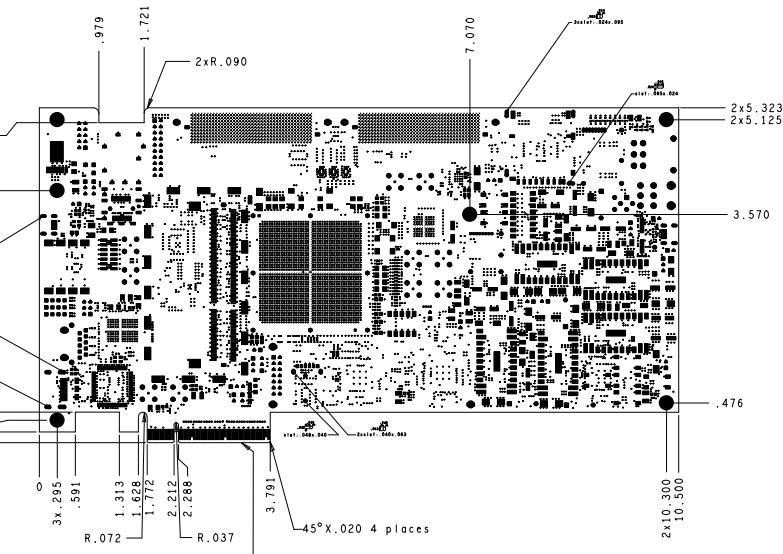
17. HARD GOLD ON FINGERS, 30-50 MICRO INCHES OF GOLD OVER 150-200 MICRO INCHES OF NICKLE MINIMUM.

TOP SIDE	SINGLE ENDED		EDGE-COUPLED DIFFERENTIAL			
	COPPER WEIGHT	COPPER THICKNESS	TARGET IMPEDANCE	Z OHMS	TARGET IMPEDANCE	
LAYER 1 PLAT	0.5 OZ	2.0	5.5 MIL	50	2.75MIL/5.5MIL	85
LAYER 2 GND1	0.5 OZ	0.6		40	6 MIL/5 MIL	100
CORE						
LAYER 3 SIG1	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	85
PRE-PREG				40	3.5 MIL/6.5 MIL	100
LAYER 4 GND2	0.5 OZ	0.6				
CORE						
LAYER 5 SIG2	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	85
PRE-PREG				40	3.5 MIL/6.5 MIL	100
LAYER 6 GND3	0.5 OZ	0.6				
CORE						
LAYER 7 SIG3	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	85
PRE-PREG				40	3.5 MIL/6.5 MIL	100
LAYER 8 GND4	1.0 OZ	1.2				
CORE						
LAYER 9 PWR1	1.0 OZ	1.2				
PRE-PREG						
LAYER 10 PWR2	0.5 OZ	0.6				
CORE						
LAYER 11 GND5	0.5 OZ	0.6				
PRE-PREG						
LAYER 12 SIG4	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	85
CORE				40	3.5 MIL/6.5 MIL	100
LAYER 13 GND6	0.5 OZ	0.6				
PRE-PREG						
LAYER 14 SIG5	0.5 OZ	0.6	3.75 MIL	50	4.75MIL/6.5MIL	85
CORE				40	3.5 MIL/6.5 MIL	100
LAYER 15 GND7	0.5 OZ	0.6				
PRE-PREG						
LAYER 16 BOT	0.5 OZ+PLATING	2.0	5.5 MIL	50	2.75MIL/5.5MIL	85
BOTTOM SIDE				40	6 MIL/5 MIL	100

CROSS SECTION DETAIL



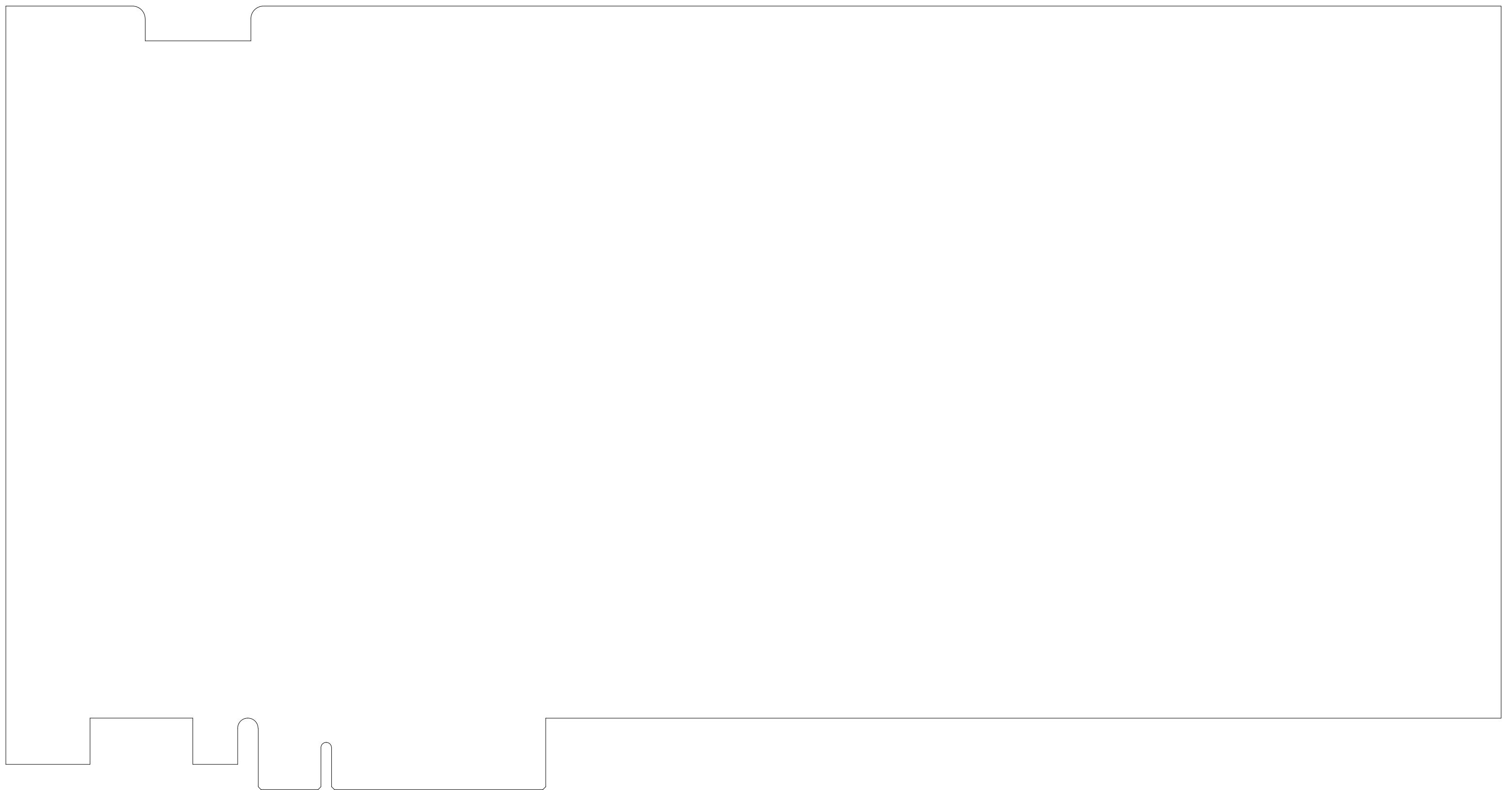
DETAIL A

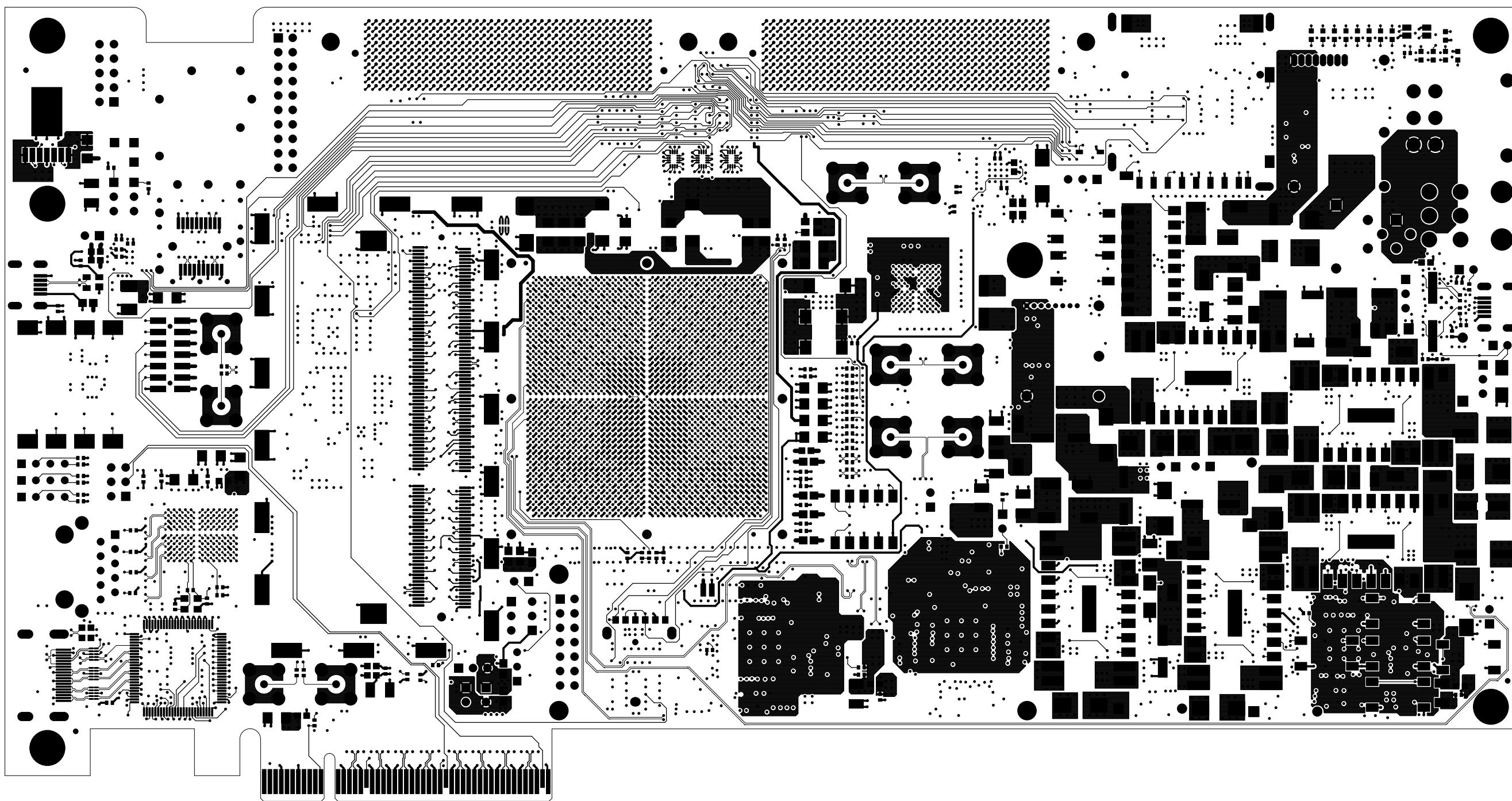


DRILL CHART: TOP to BOTTOM ALL UNITS ARE IN MILS				
FIGURE	FHS	TOLERANCE	PLATED	QTY
-	10.0	+0.0/-10.0	PLATED	6083
-	12.0	+0.0/-12.0	PLATED	62
-	28.0	+3.0/-3.0	PLATED	16
-	33.0	+3.0/-3.0	PLATED	1
-	35.0	+3.0/-3.0	PLATED	25
-	40.0	+3.0/-3.0	PLATED	99
-	41.0	+3.0/-3.0	PLATED	11
-	48.0	+3.0/-3.0	PLATED	6
-	50.0	+3.0/-3.0	PLATED	10
-	55.0	+3.0/-3.0	PLATED	8
-	63.0	+3.0/-3.0	PLATED	42
-	71.0	+3.0/-3.0	PLATED	6
-	73.0	+3.0/-3.0	PLATED	8
-	106.0	+3.0/-3.0	PLATED	4
-	110.0	+3.0/-3.0	PLATED	3
-	125.0	+3.0/-3.0	PLATED	8
-	33.0	+1.0/-1.0	NON-PLATED	2
-	37.0	+2.0/-2.0	NON-PLATED	9
-	40.0	+2.0/-2.0	NON-PLATED	2
-	43.0	+3.0/-3.0	NON-PLATED	1
-	44.0	+1.0/-0.0	NON-PLATED	1
-	50.0	+2.0/-2.0	NON-PLATED	4
-	54.0	+2.0/-2.0	NON-PLATED	2
-	61.0	+3.0/-3.0	NON-PLATED	2
-	63.0	+2.0/-2.0	NON-PLATED	1
-	67.0	+4.0/-4.0	NON-PLATED	8
-	128.0	+2.0/-2.0	NON-PLATED	2
-	48.0x40.0	+3.0/-3.0	PLATED	1
-	63.0x40.0	+3.0/-3.0	PLATED	2
-	75.0x28.0	+2.0/-2.0	PLATED	8
-	83.0x35.0	+2.0/-2.0	PLATED	2
-	95.0x24.0	+3.0/-3.0	PLATED	4
-	106.0x35.0	+2.0/-2.0	PLATED	2

TOTAL HOLES: 6445

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:	
LINEAR DIMENSIONS ANGLES .XX = ± .010" XX-XX = ± 0.30°				XILINX, INC	
.XX = ± .030" XX-X = ± 1.0°		DRAWN:	Fawad Munawar	PROJECT NAME:	
X = ± .100" XX = ± 5.0°		CHECKED:	Rashid Mehmood	HW-VC707	
WHIZZ SYSTEMS INC. 3240 SCOTT BLVD SANTA CLARA, CA 95054 TEL: 408-980-0400		ENGR:	Brian Forsse	D	FAB DWG. NO.
DO NOT SCALE DRAWING		APPROVAL:	Brian Forsse	1280586	REV. 1.1
WHIZZ JOG NO. 6041		SCALE: 1:1	SHEET 1 OF 1		

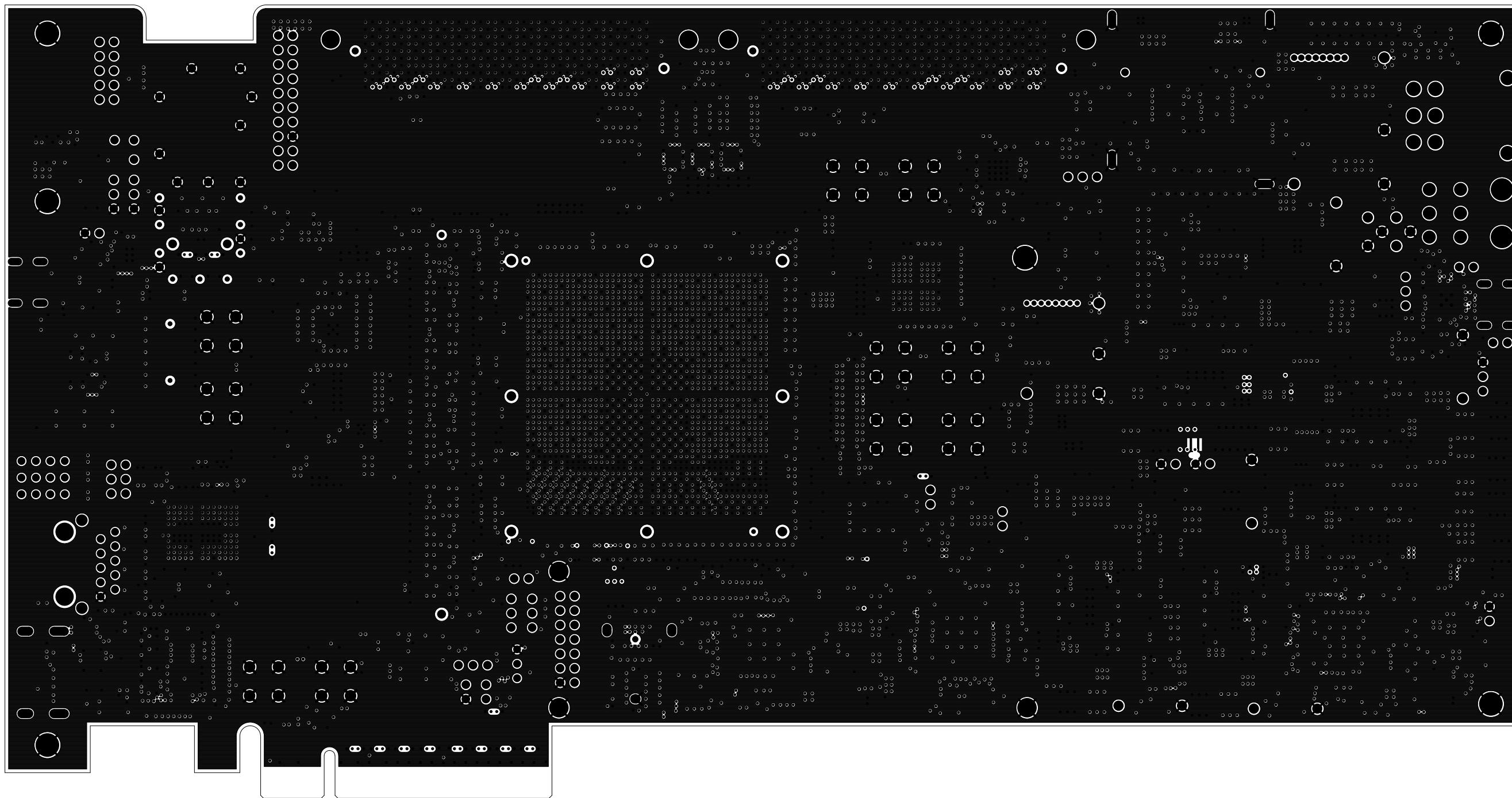




DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

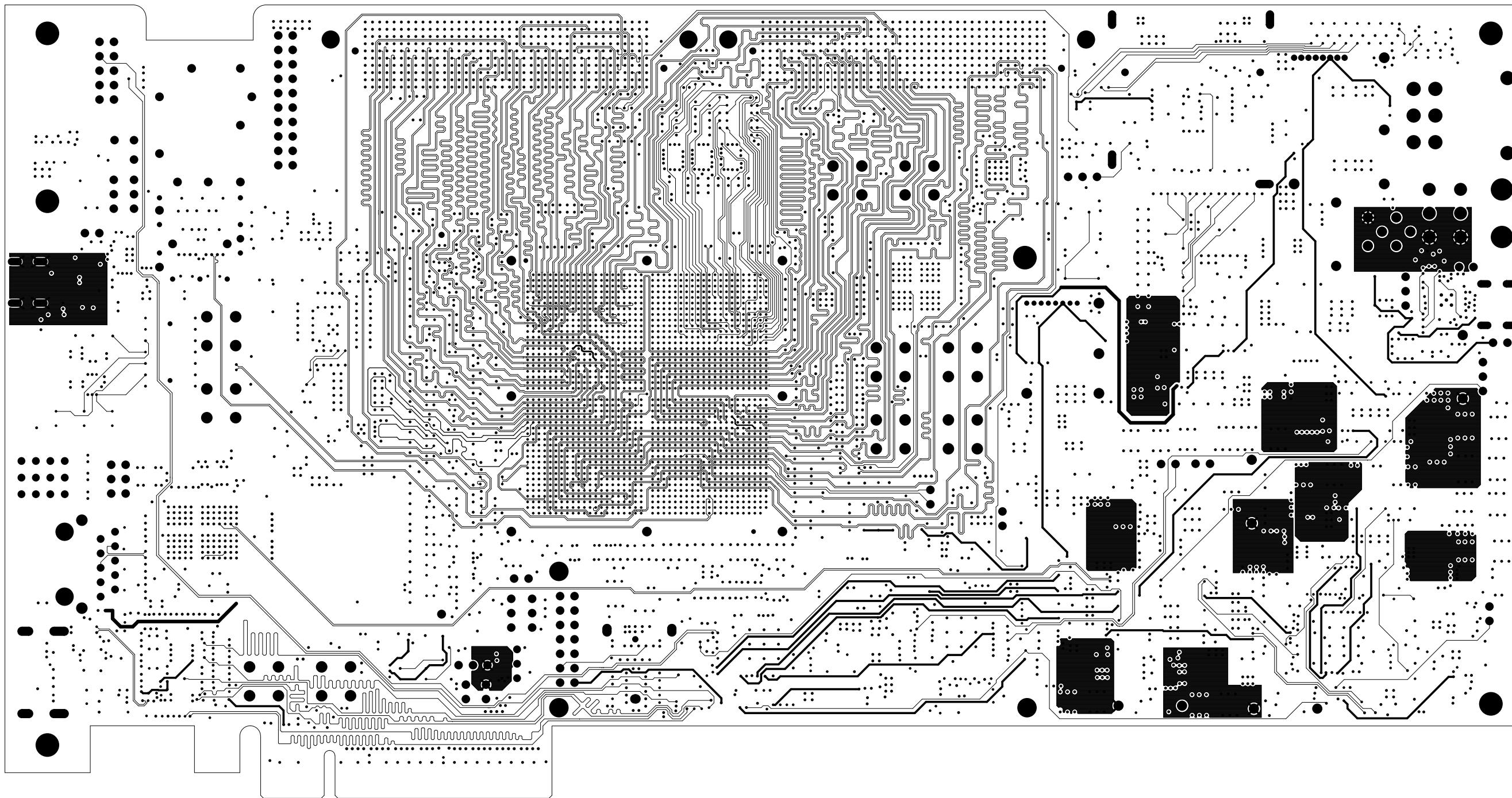
Layer:	TOP	Sheet:	01	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

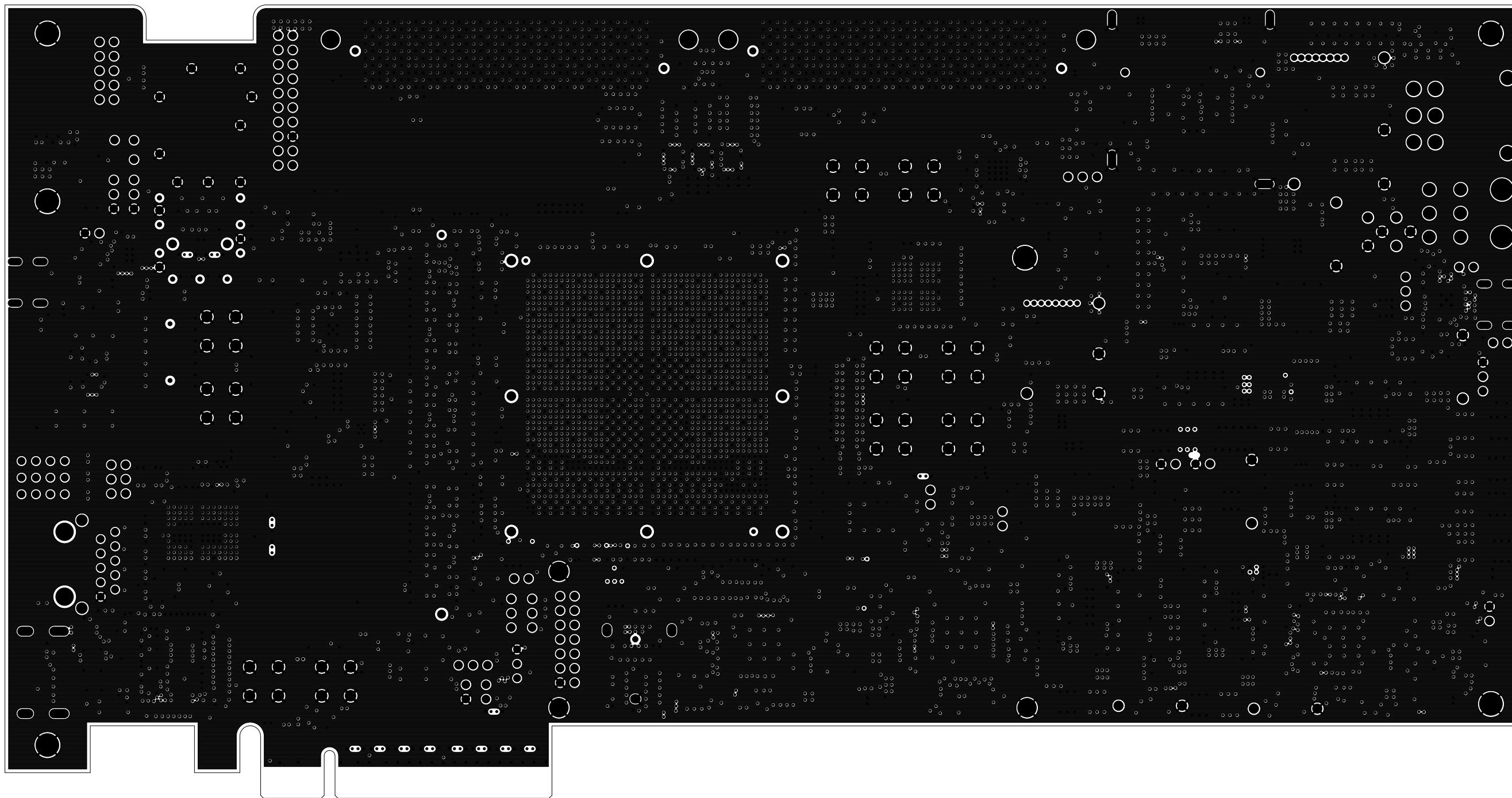
Layer:	GND1	Sheet:	02	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

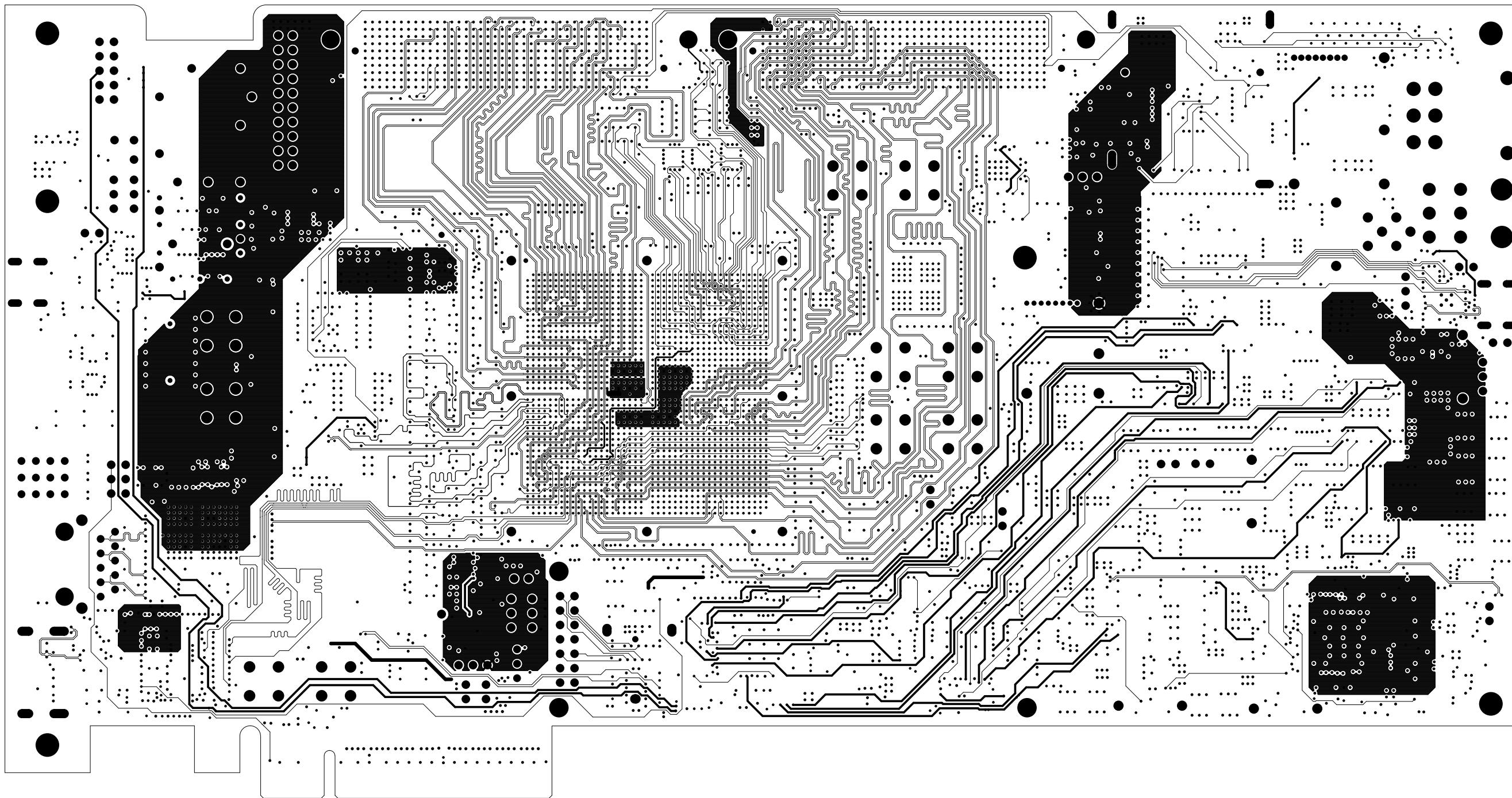
Layer:	SIG1	Sheet:	03	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

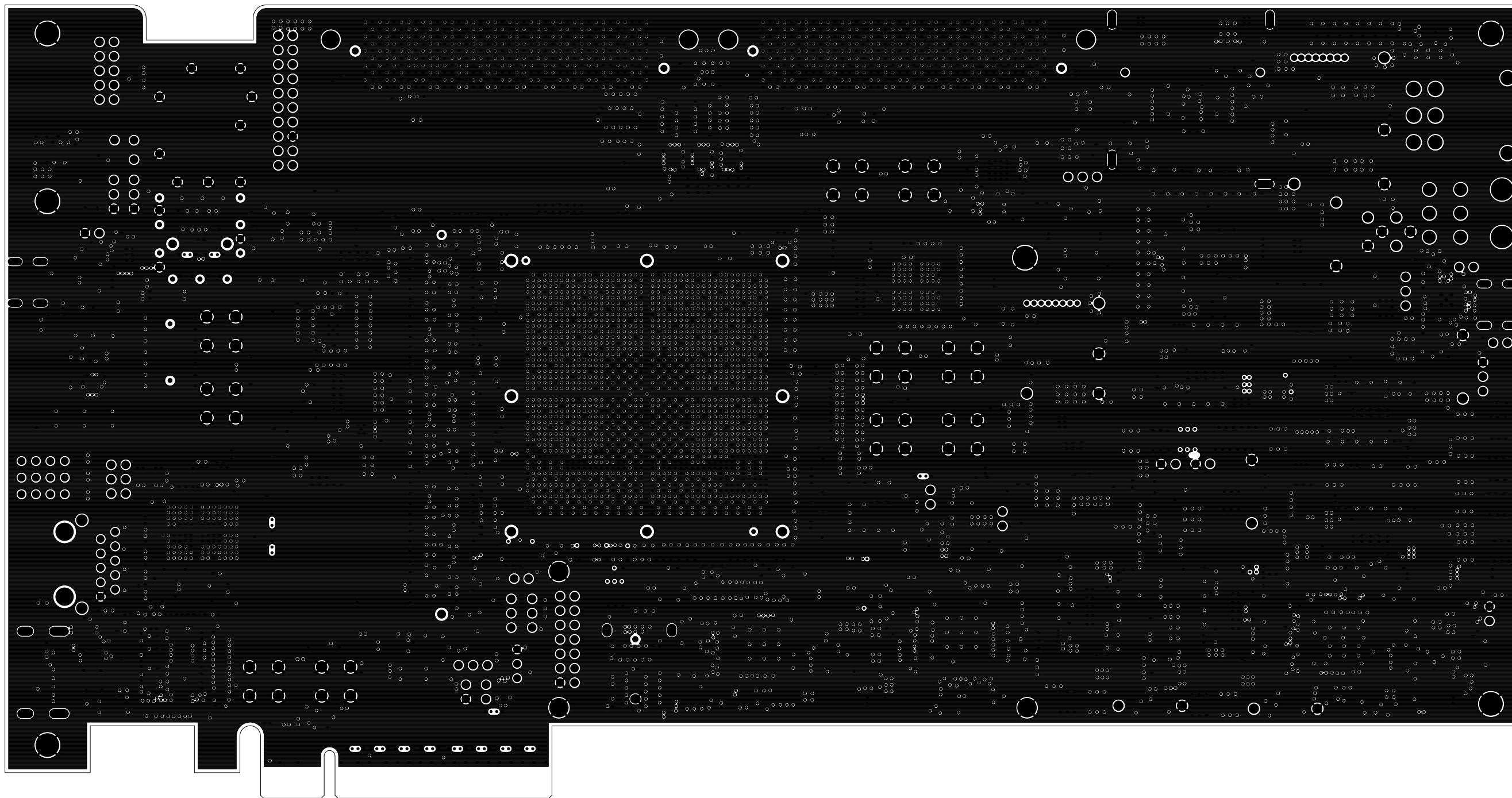
Layer: GND2	Sheet: 04	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 6041	Date: 11.03.2012	Project Number: 1280586 REV. 1.1
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

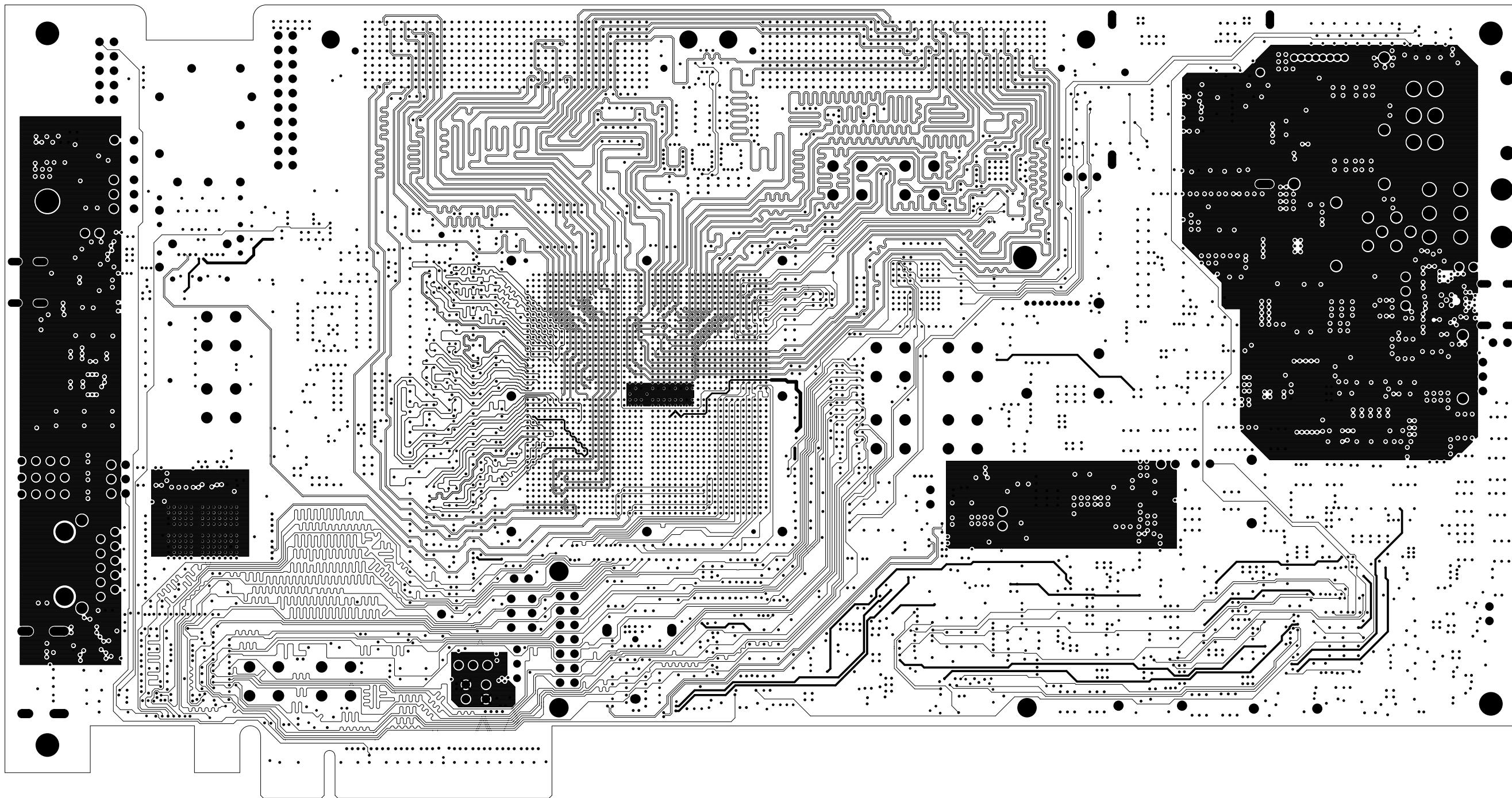
Layer:	SIG2	Sheet:	05	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	REV. 1.1 1280586
LATEST NETLIST REV OR DATE: 02.04.2012			LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

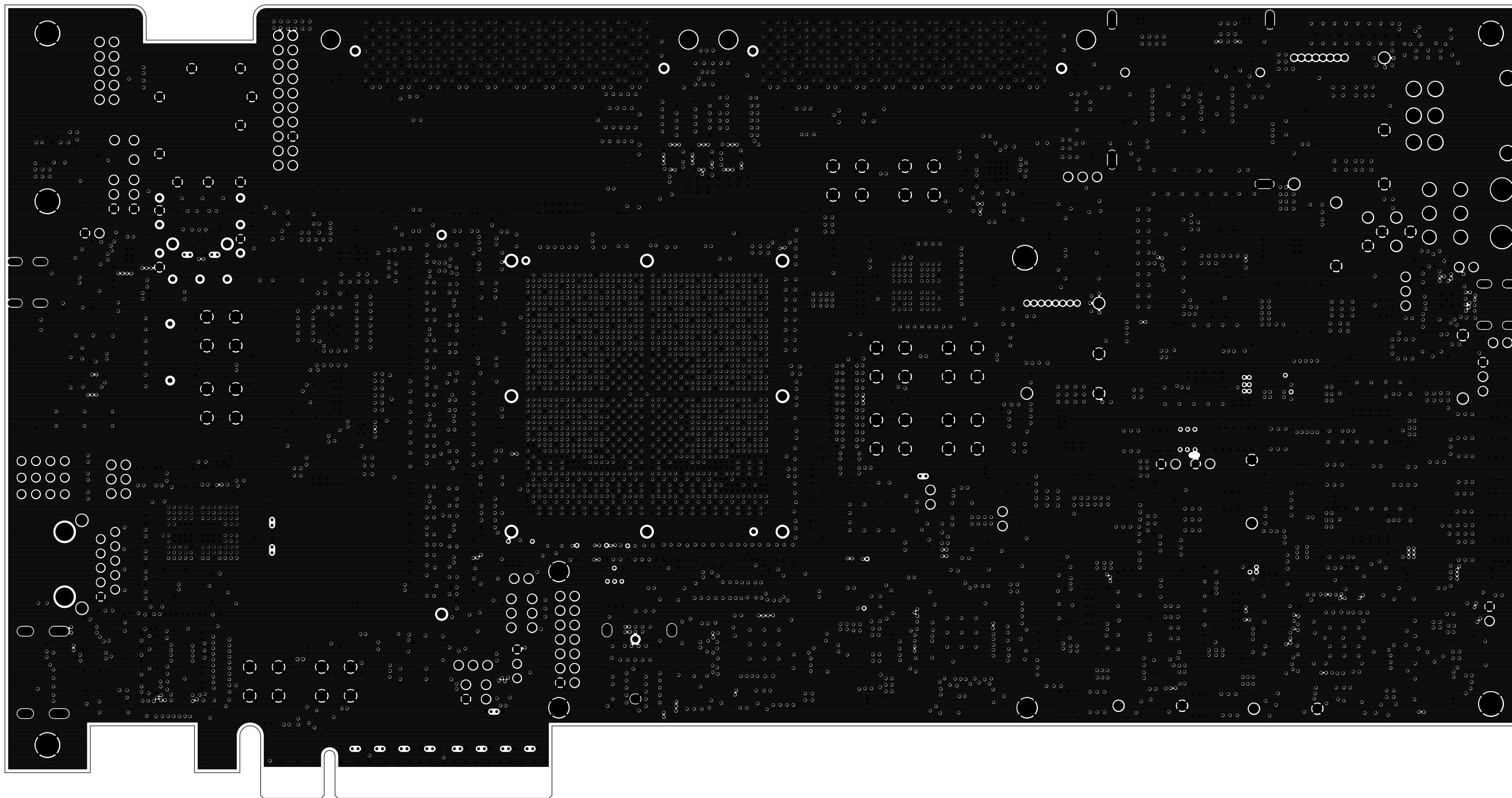
Layer:	GND3	Sheet:	06	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

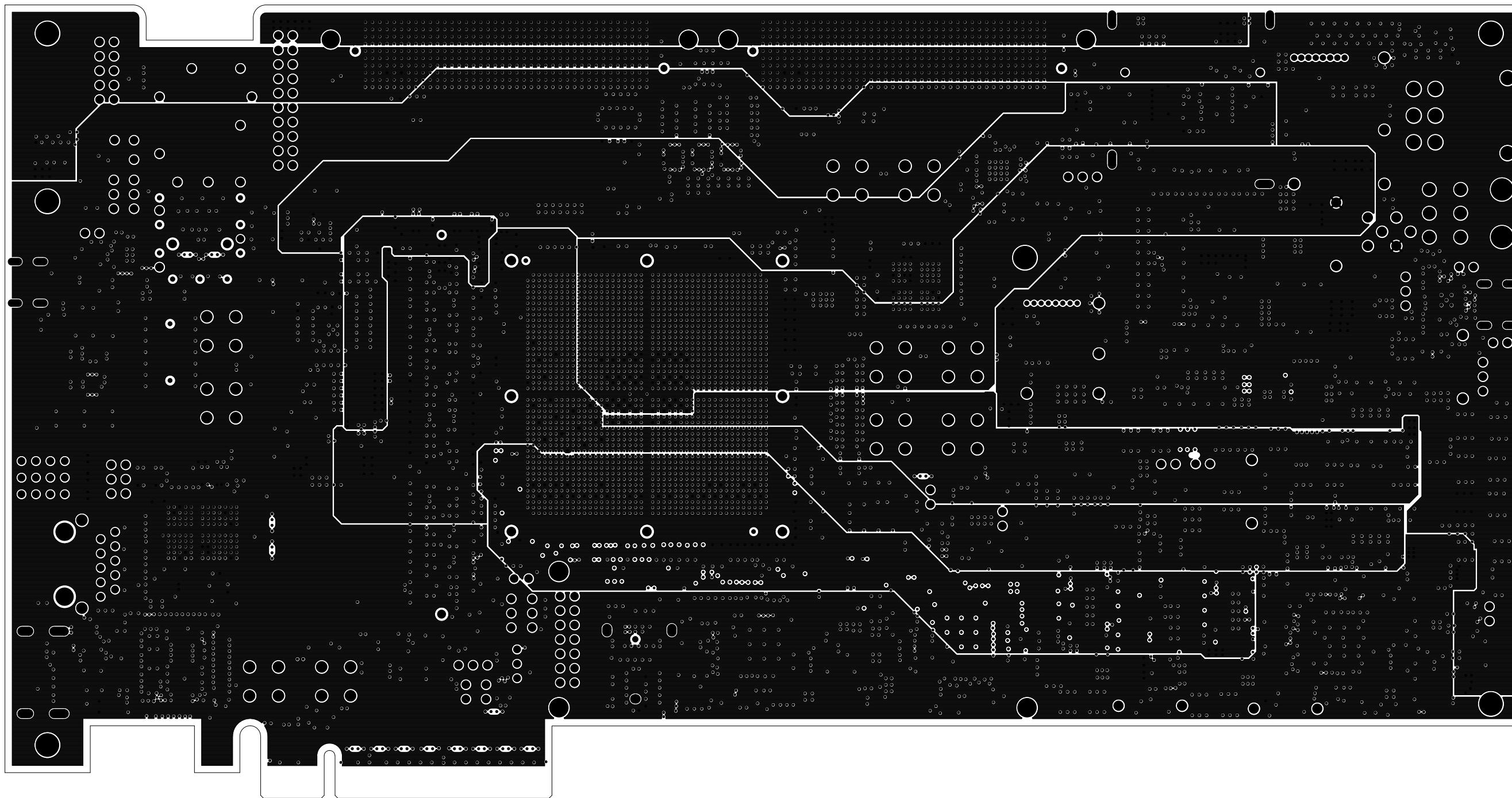
Layer:	SIG3	Sheet:	07	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	REV. 1.1 1280586
LATEST NETLIST REV OR DATE: 02.04.2012			LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

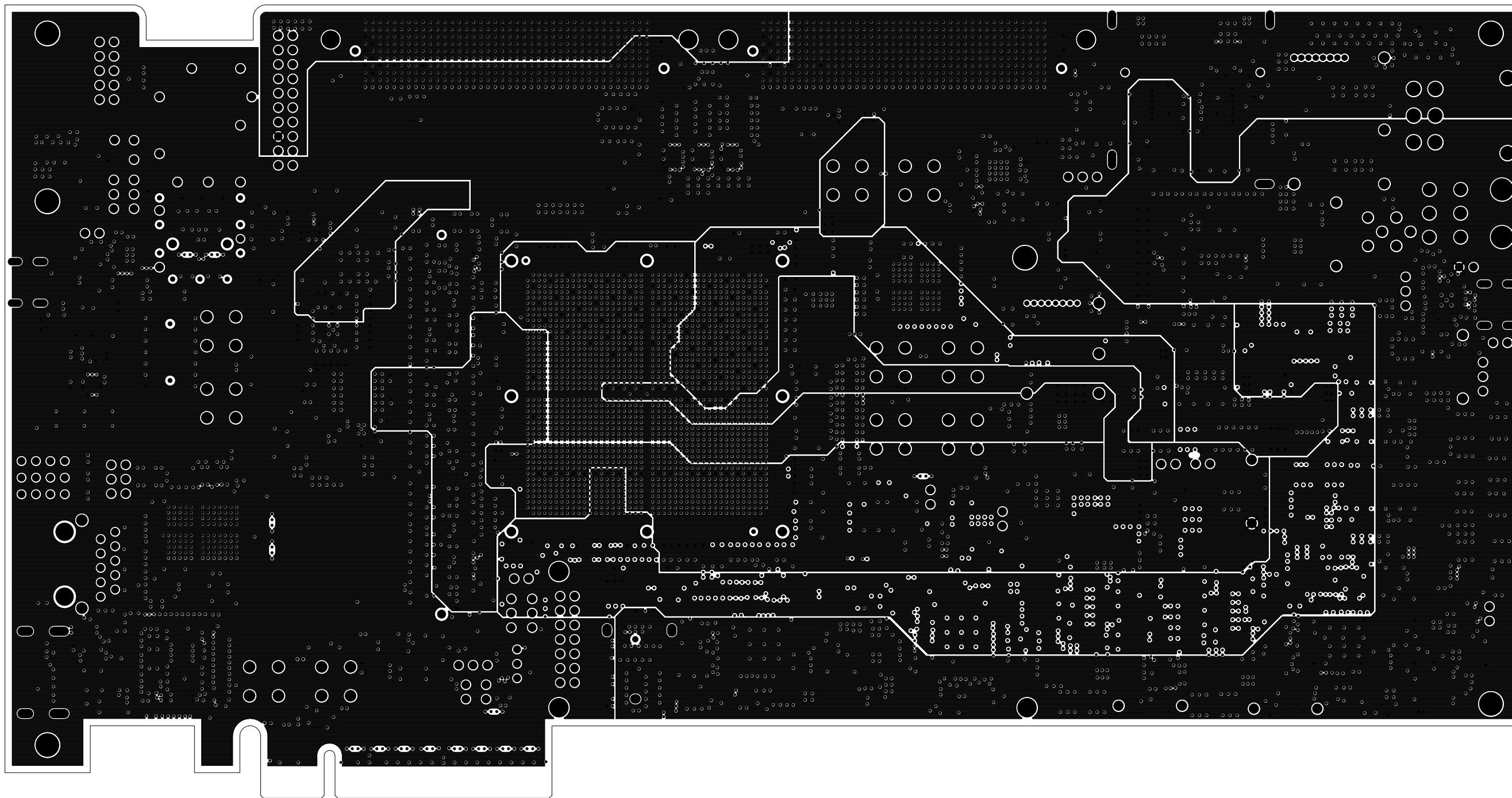
Layer: GND4	Sheet: 08	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 6041	Date: 11.03.2012	Project Number: 1280586 REV. 1.1
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

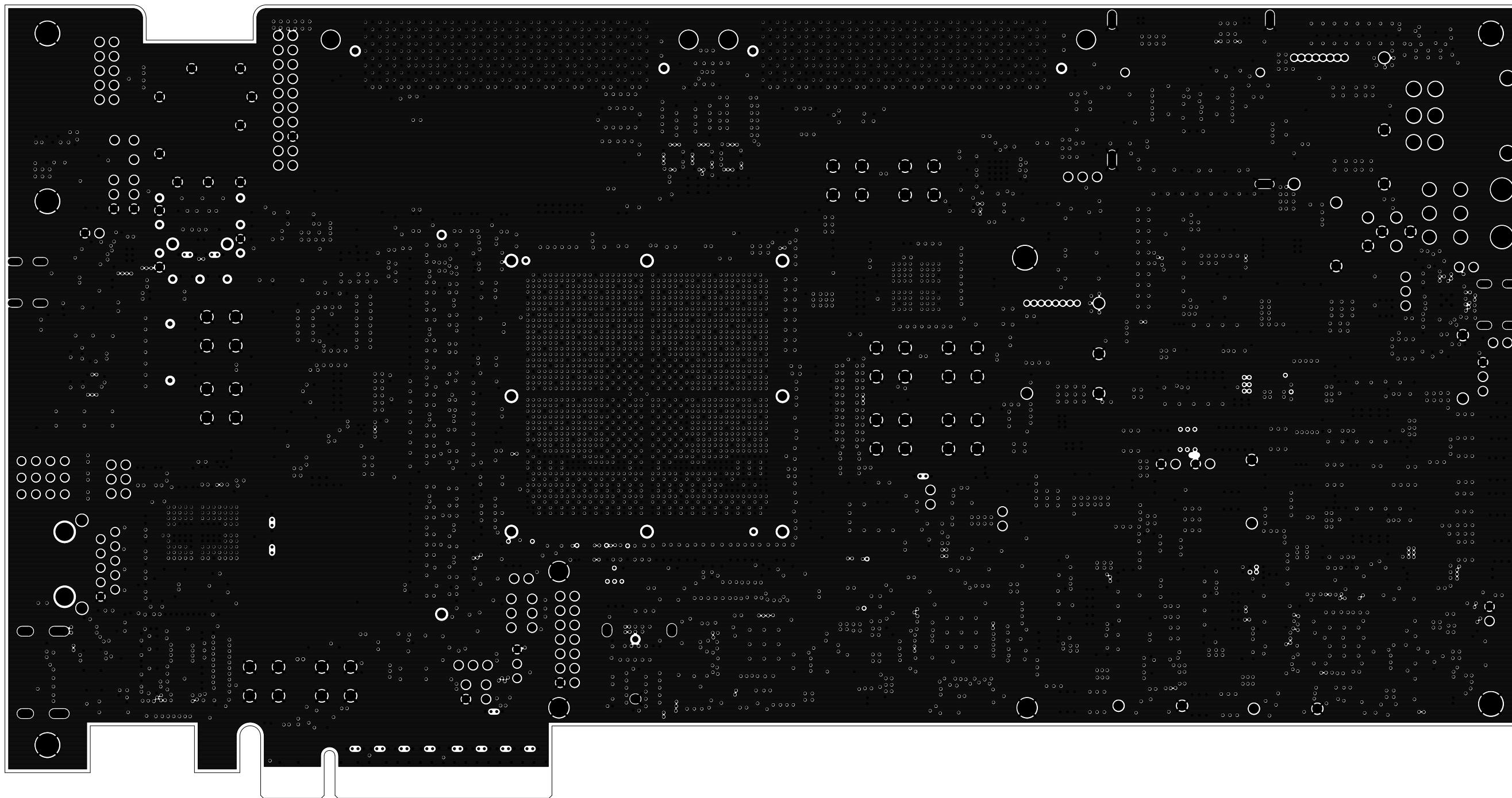
Layer: PWR1	Sheet: 09	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 6041	Date: 11.03.2012	Project Number: 1280586 REV. 1.1
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

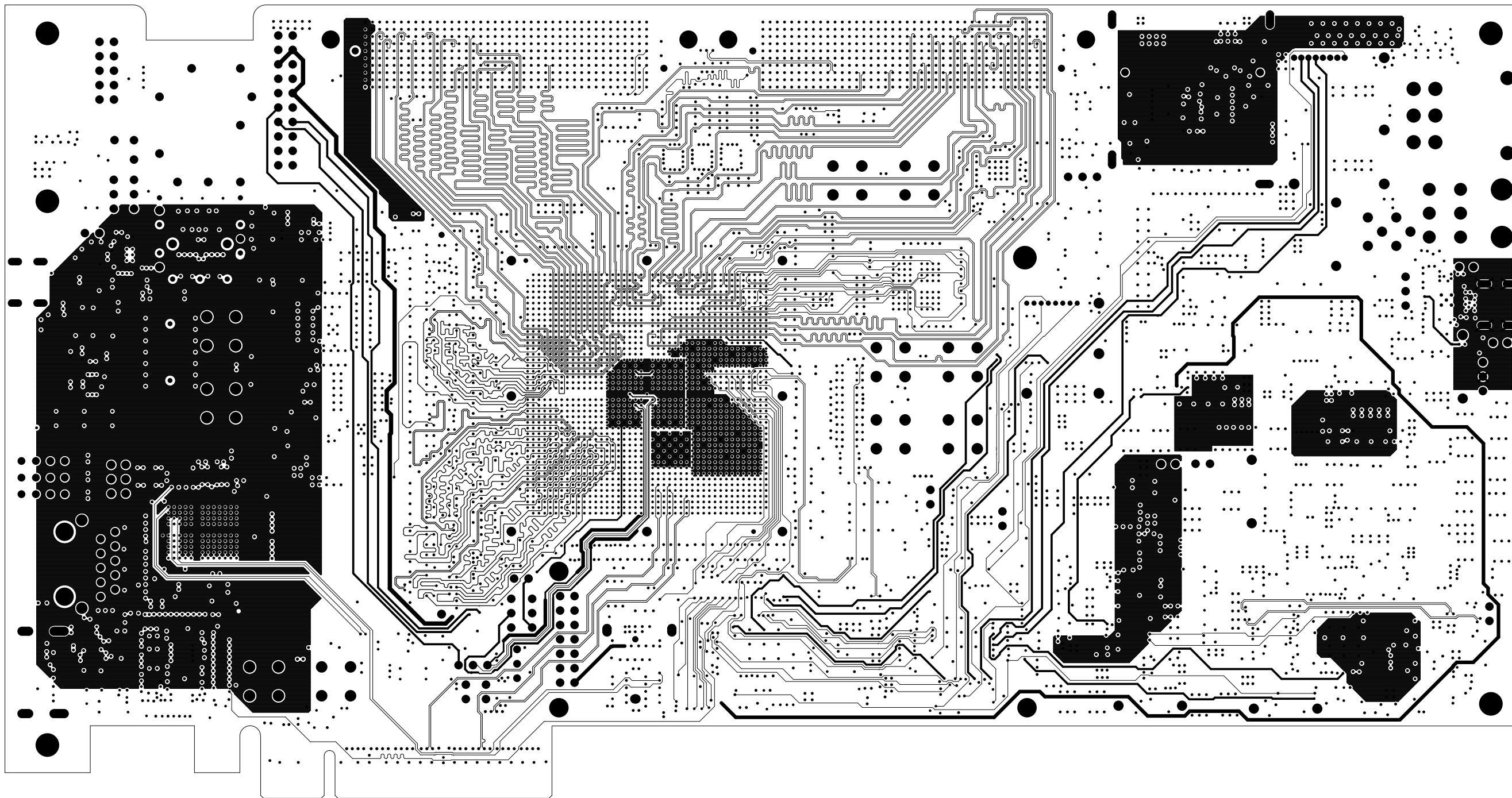
Layer:	PWR2	Sheet:	10	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

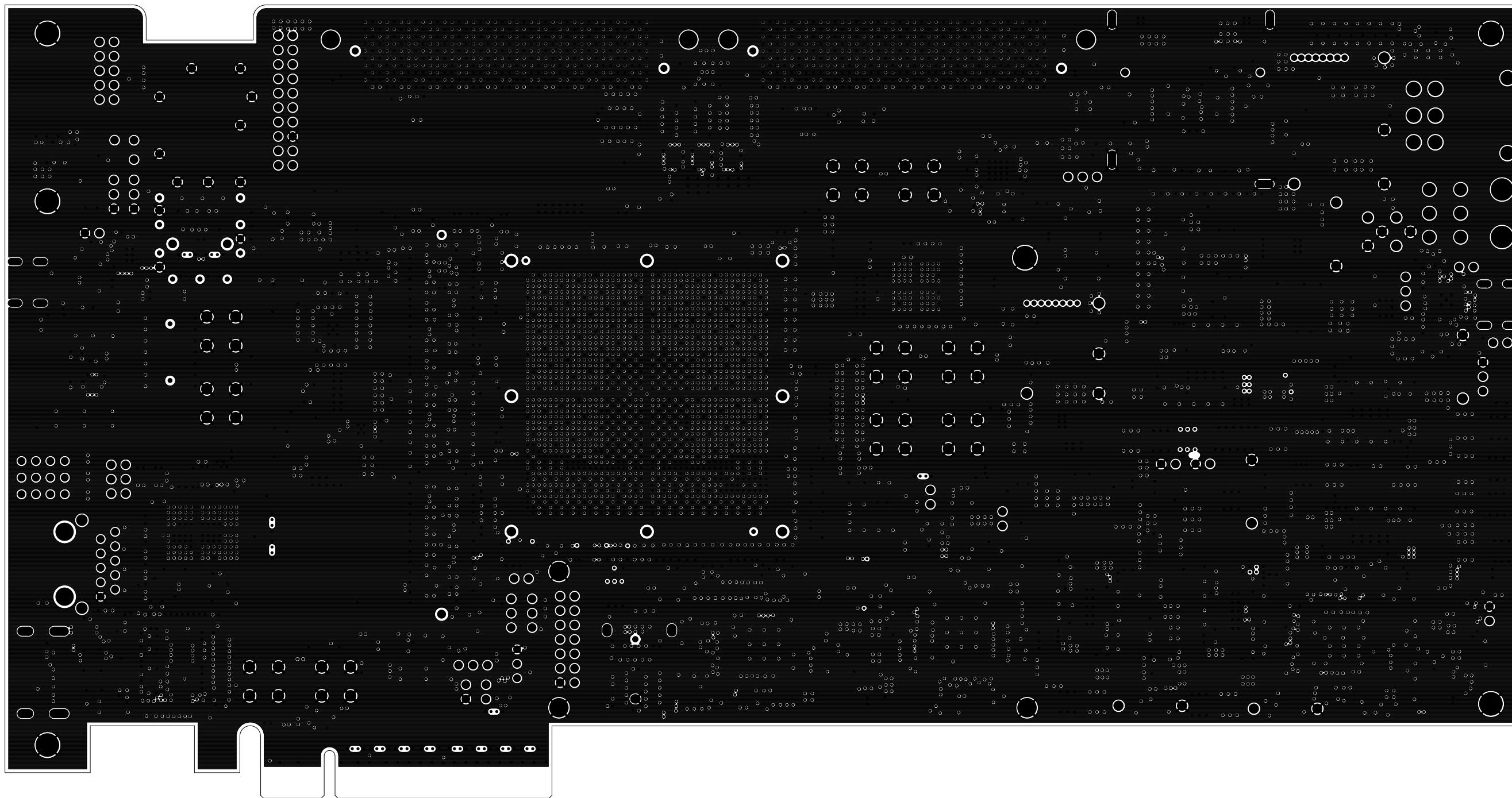
Layer:	GND5	Sheet:	11	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

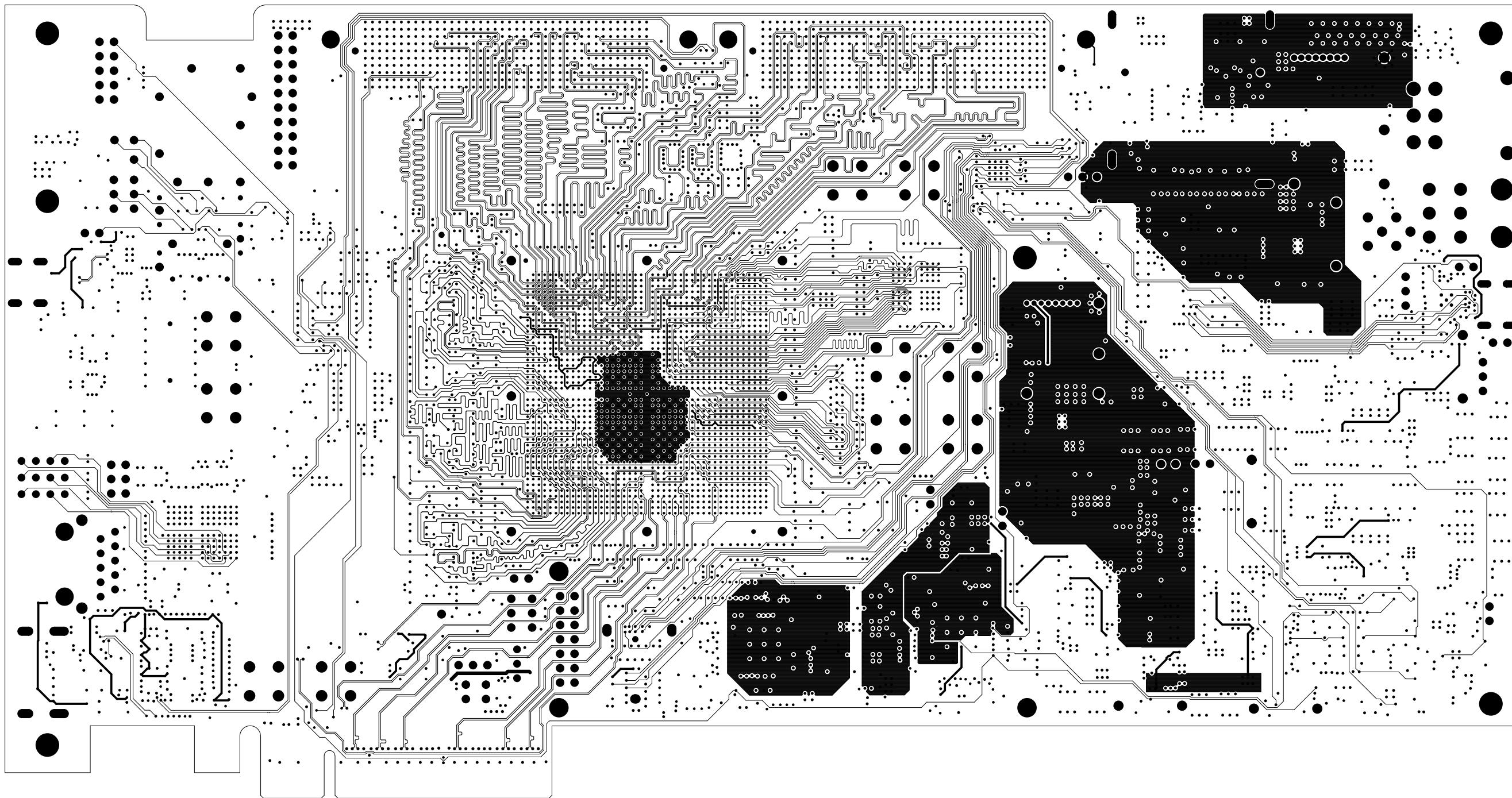
Layer:	SIG4	Sheet:	12	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

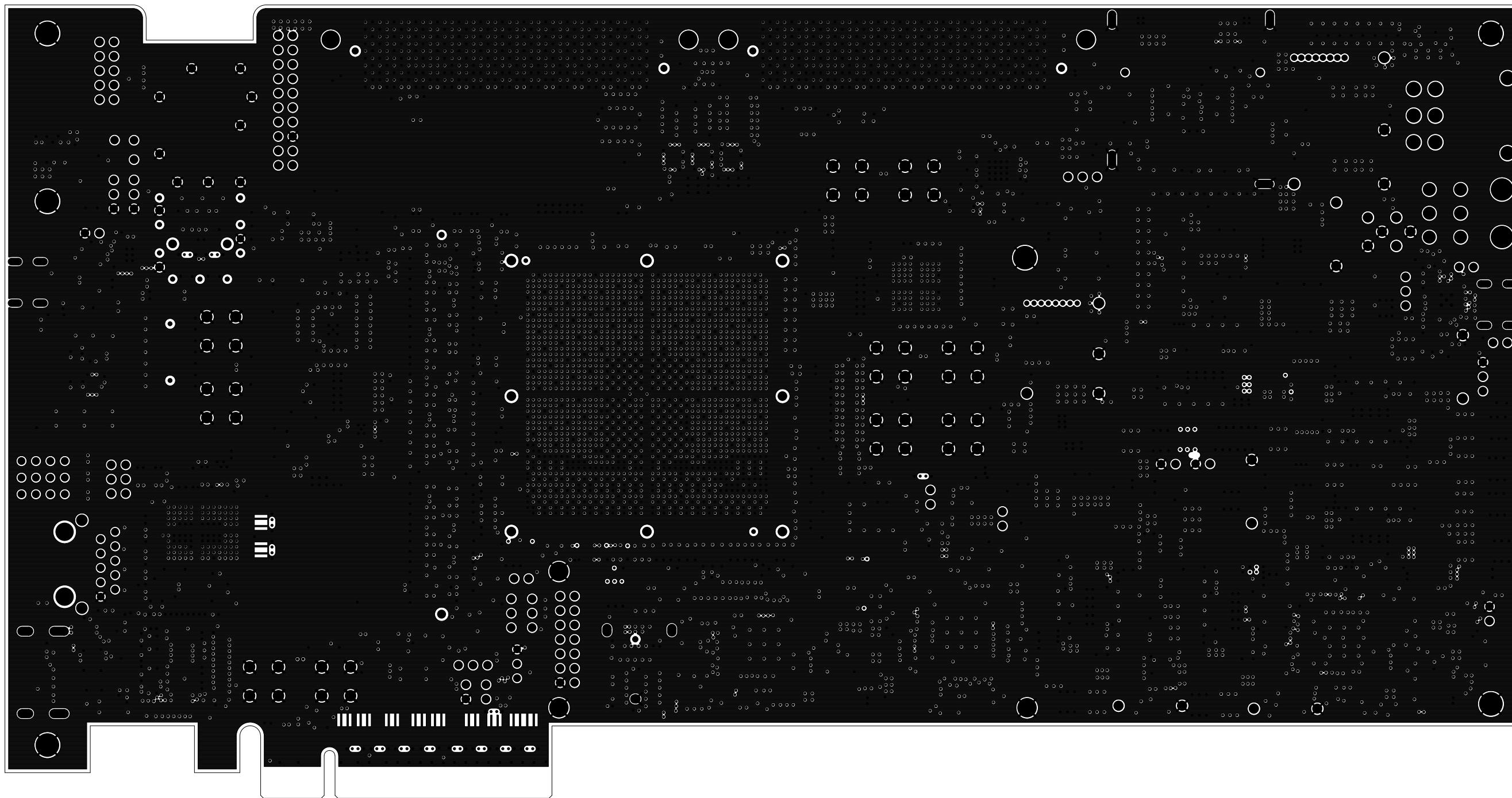
Layer:	GND6	Sheet:	13	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

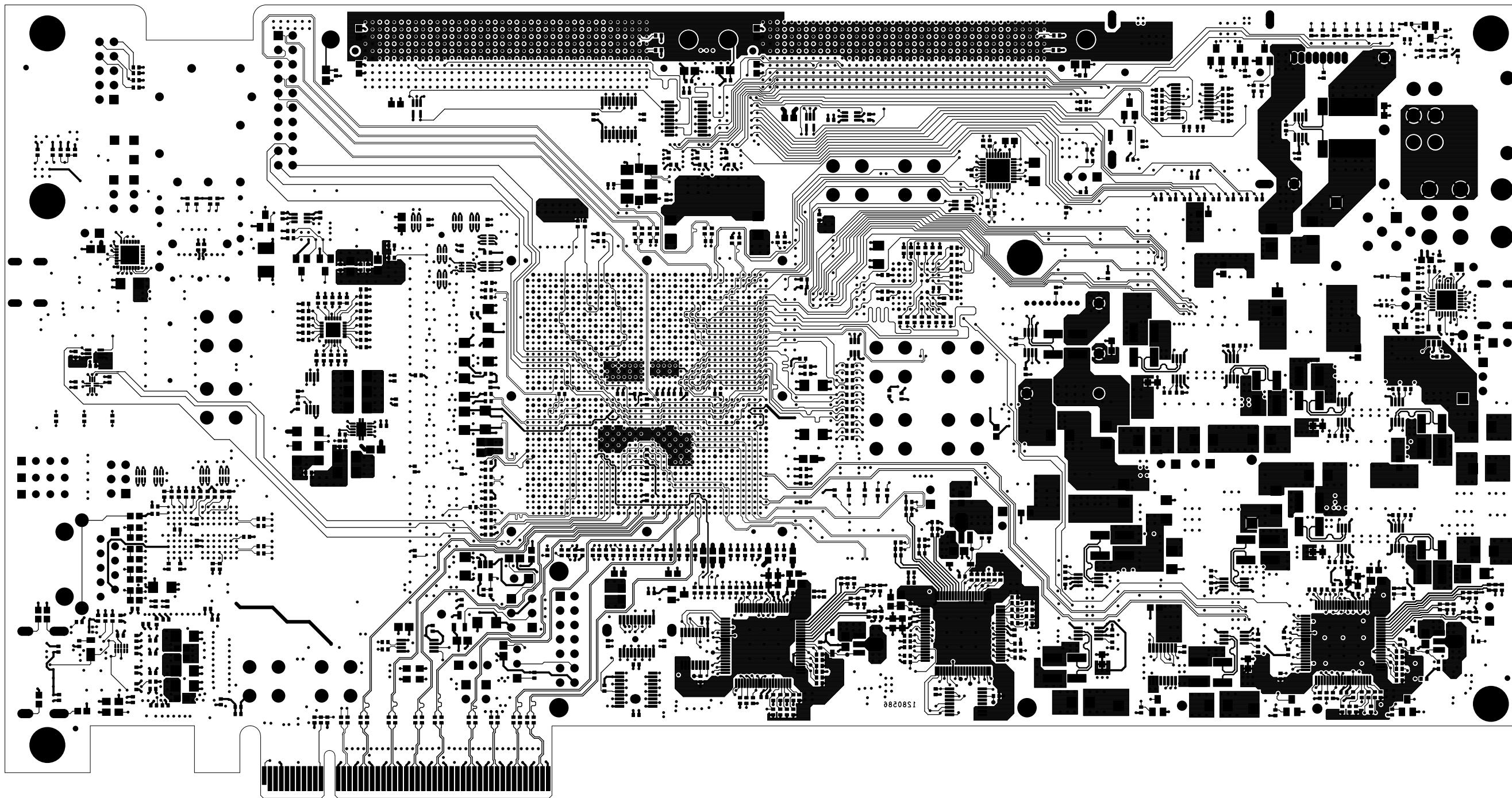
Layer:	SIG5	Sheet:	14	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	REV. 1.1 1280586
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

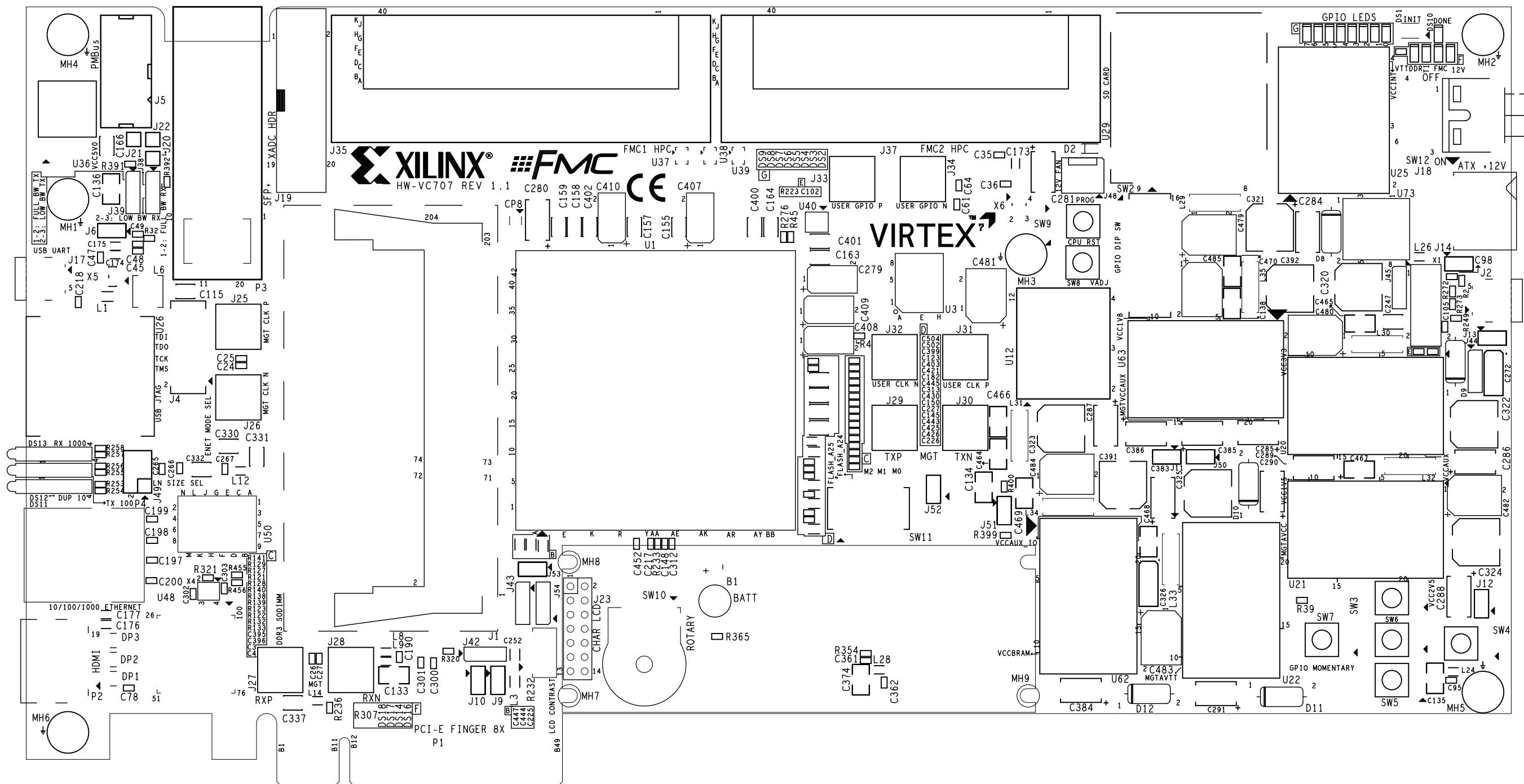
Layer:	GND7	Sheet:	15	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		

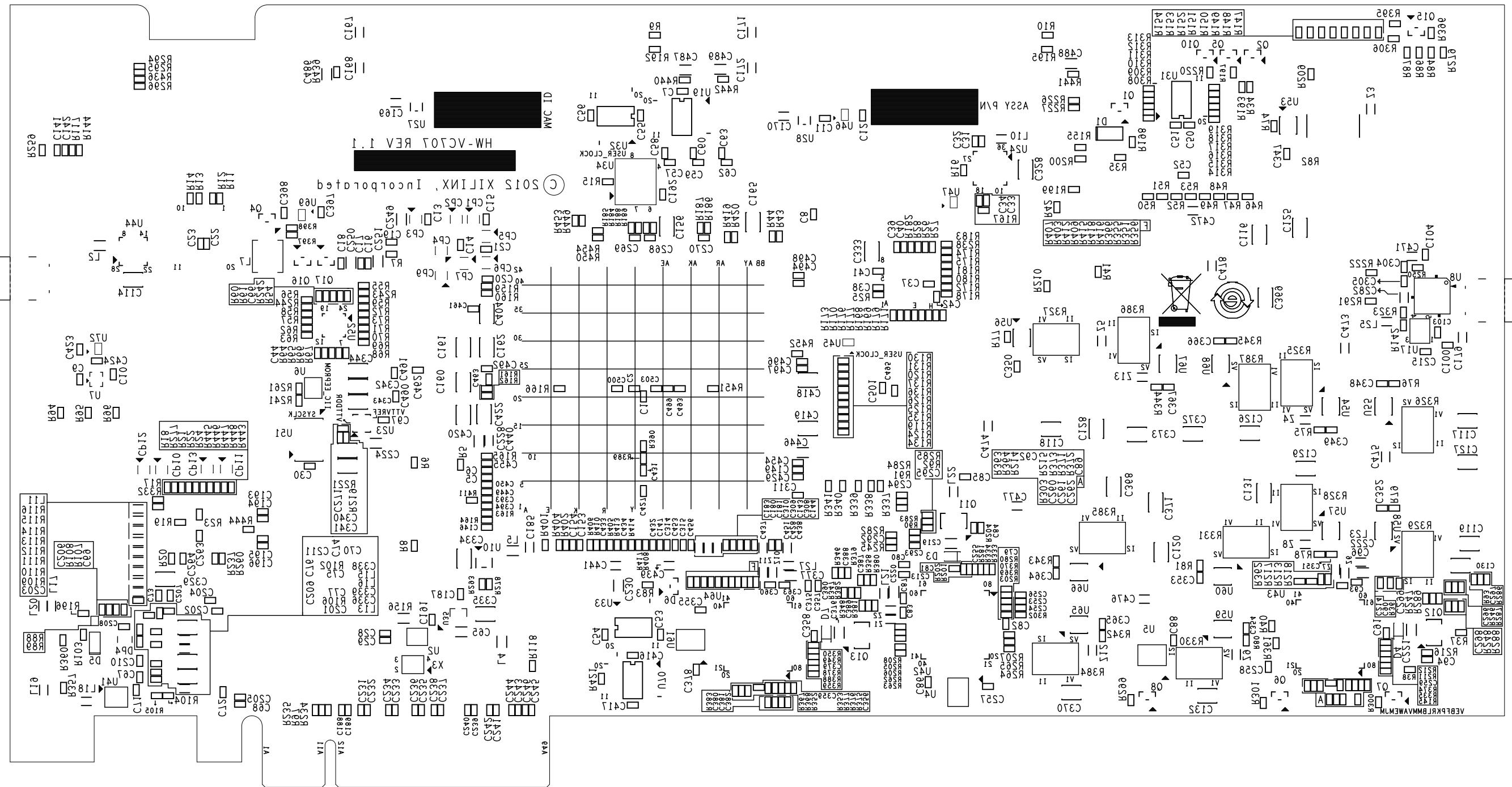


DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

Layer:	BOTTOM	Sheet:	16	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		

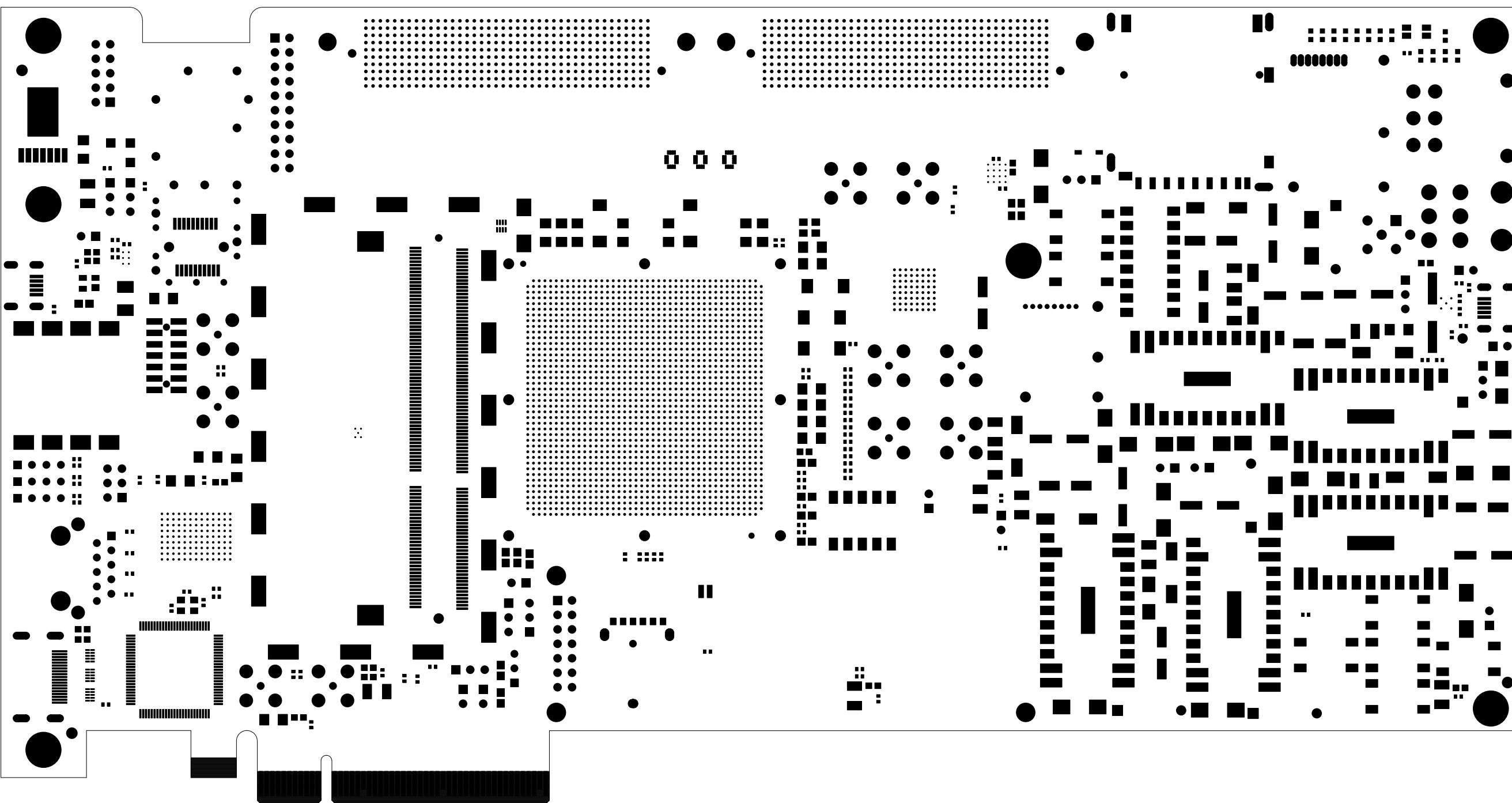




DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

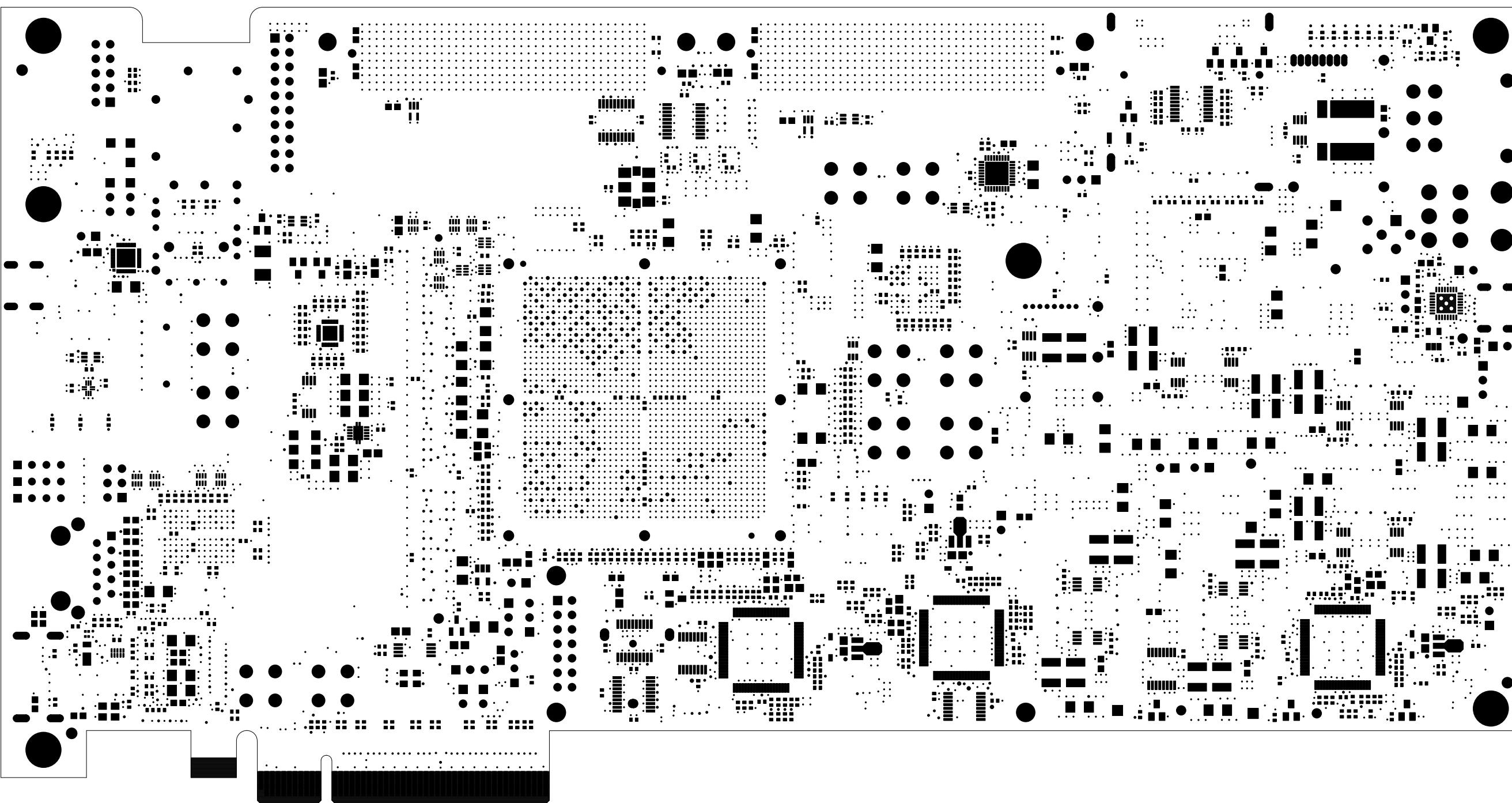
Layer: SILK_BOT	Sheet: 18	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name:	XILINX, INC.
Design Engineer: BRIAN FORSSE	Project Name:	HW-VC707
Whizz Job Number: 55 6041	Date: 11.03.2012	Project Number: 1280586
REV. 1.		
DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

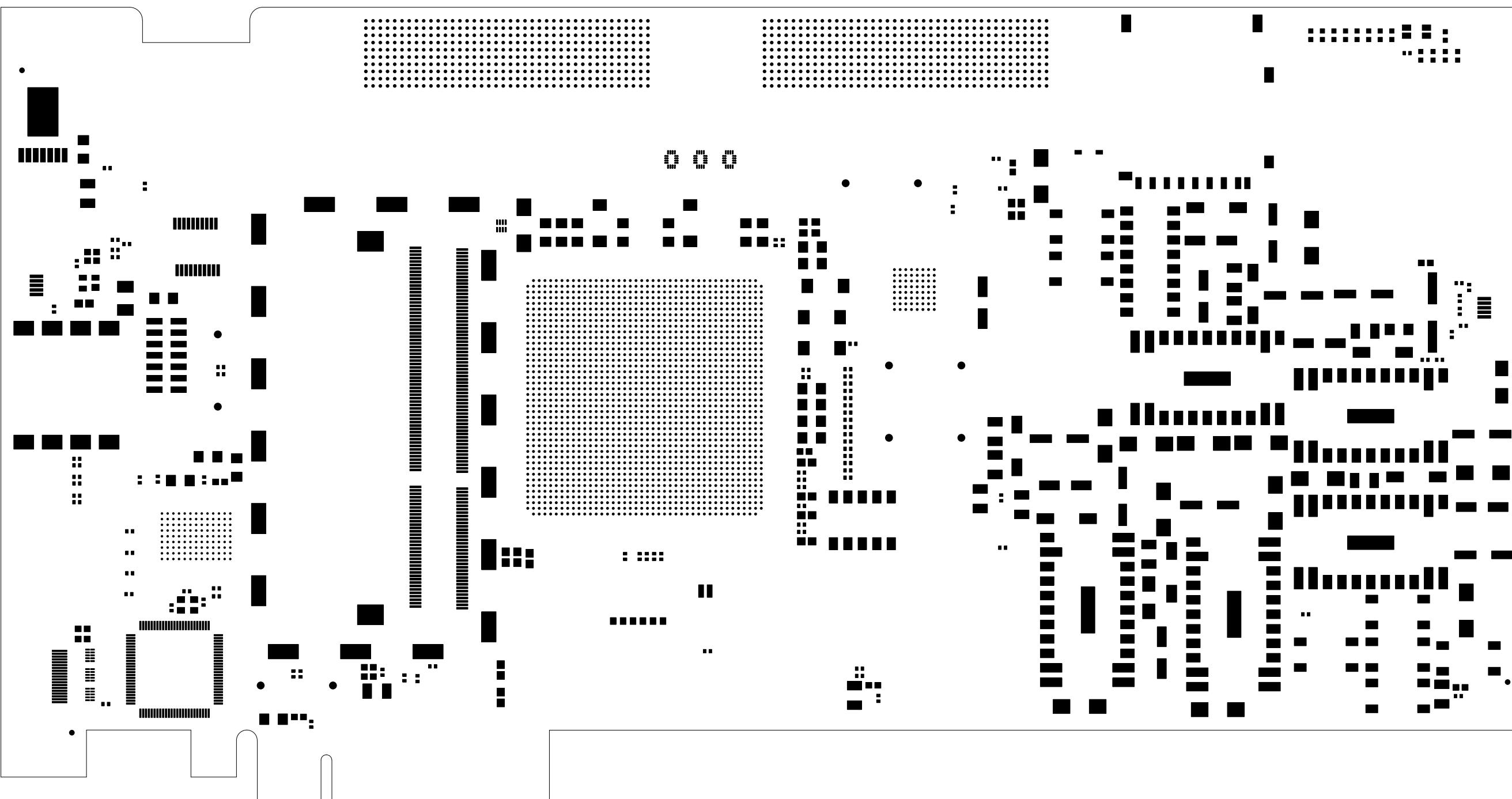
Layer:	SMASK_TOP	Sheet:	19	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	REV. 1.1 1280586
LATEST NETLIST REV OR DATE: 02.04.2012			LATEST MECHANICAL REV OR DATE: mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

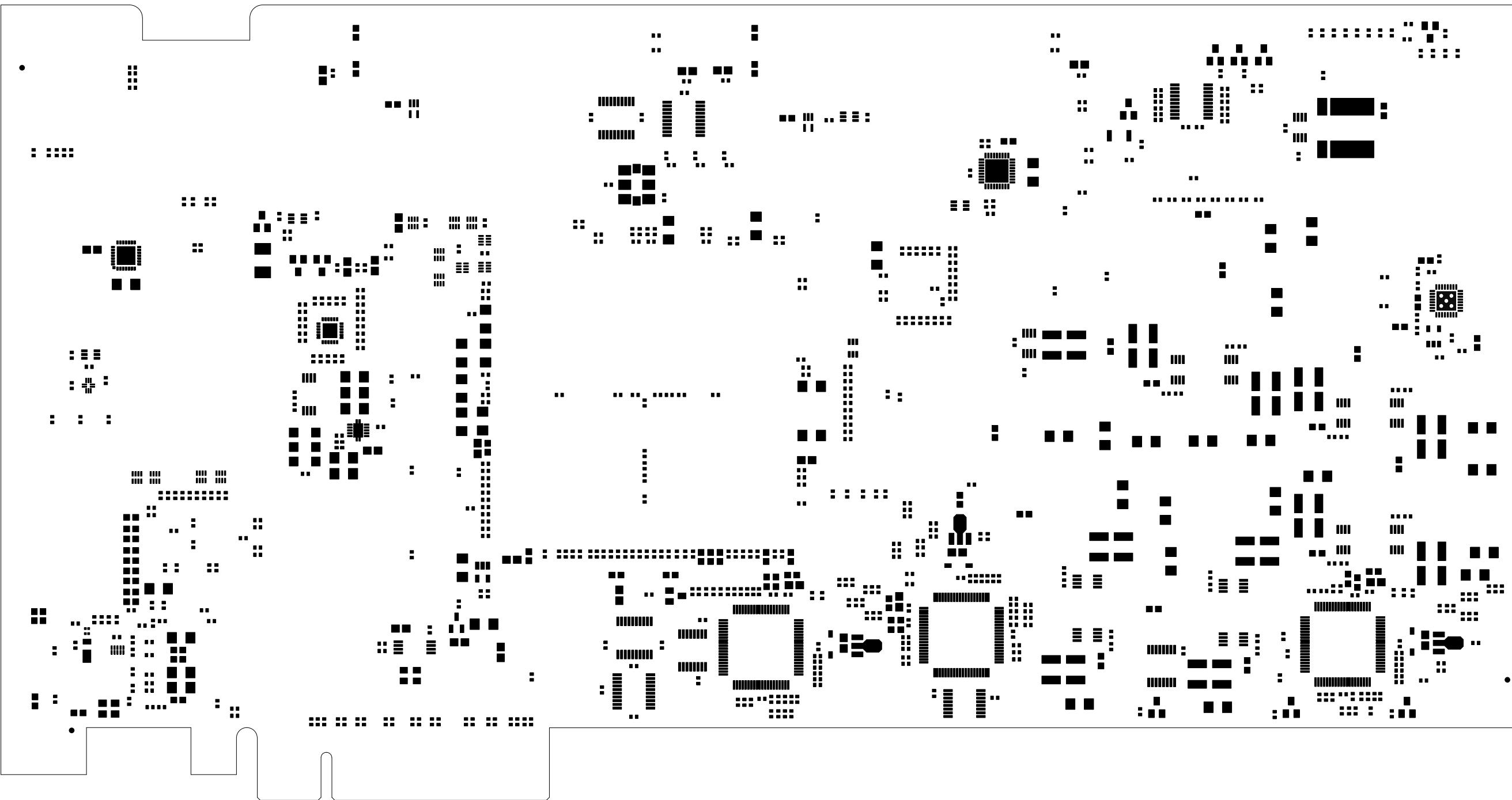
Layer:	SMASK_BOT	Sheet:	20	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	REV. 1.1 1280586
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

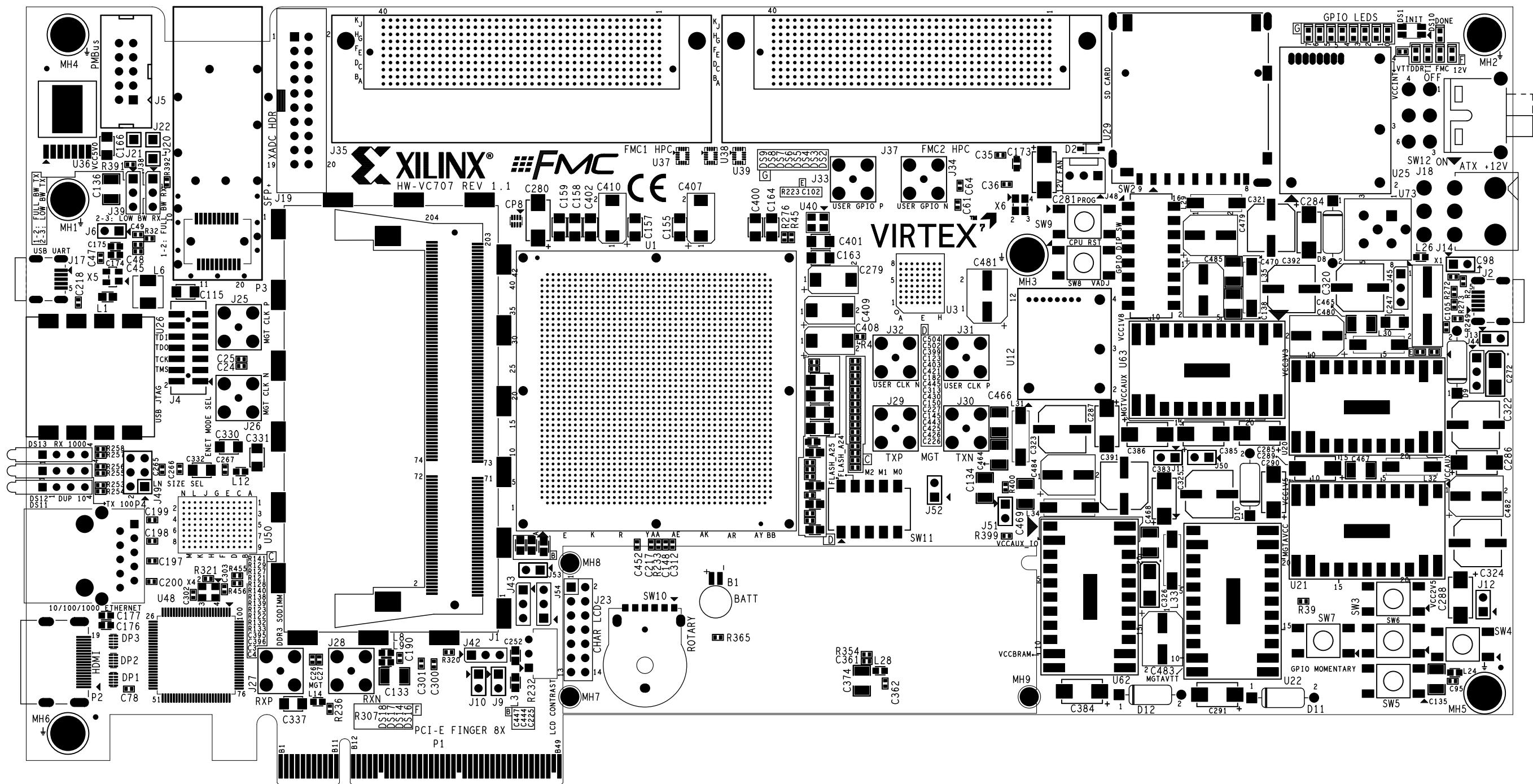
Layer:	PMASK_TOP	Sheet:	21	of:	24
Layout Engineer:	FAWAD MUNAWAR	Company Name:	XILINX, INC.		
Design Engineer:	BRIAN FORSSE	Project Name:	HW-VC707		
Whizz Job Number:	6041	Date:	11.03.2012	Project Number:	1280586 REV. 1.1
LATEST NETLIST REV OR DATE:	02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy		



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

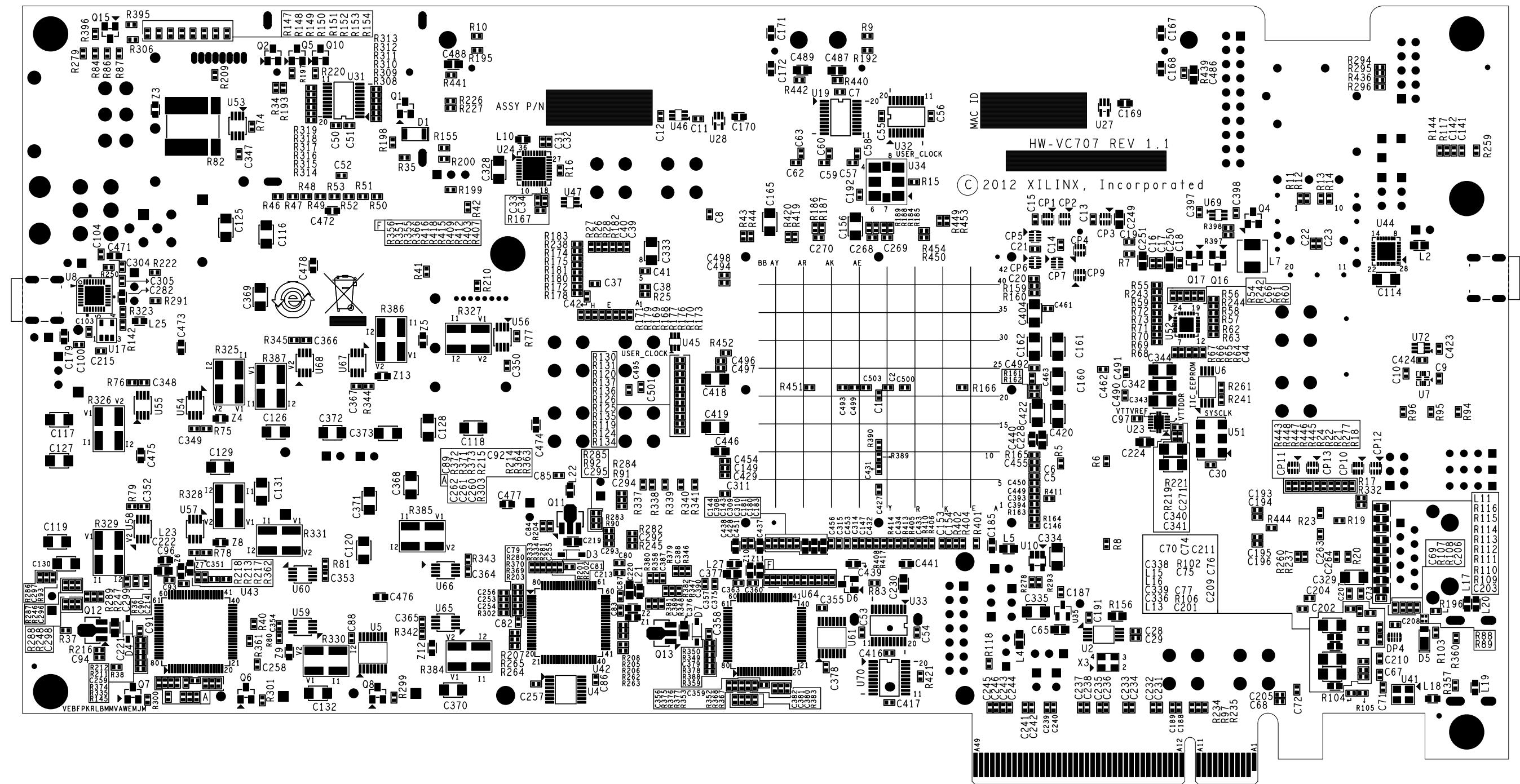
Layer: PMASK_BOT	Sheet: 22	of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.	
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707	
Whizz Job Number: 6041	Date: 11.03.2012	Project Number: 1280586 REV. 1.1
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE:	mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL: 408-980-0400 FAX: 408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

Layer: ASSY_TOP	Sheet: 23 of: 24
Layout Engineer: FAWAD MUNAWAR	Company Name: XILINX, INC.
Design Engineer: BRIAN FORSSE	Project Name: HW-VC707
Whizz Job Number: 6041	Date: 11.03.2012
	Project Number: 1280586 REV 1.1
LATEST NETLIST REV OR DATE: 02.04.2012	LATEST MECHANICAL REV OR DATE: mm.dd.yyyy



DESIGNED BY:  
WHIZZ SYSTEMS INC.  
3140 ALFRED STREET,  
SANTA CLARA, CA 95054  
[www.whizzsystems.com](http://www.whizzsystems.com)  
TEL:408-980-0400 FAX:408-980-1555

This document contains information which is the proprietary property of Xilinx Inc. This document may not be disclosed to third parties without the prior written consent of Xilinx, Inc.

Layer: ASSY\_BOT Sheet: 24 of: 24

Layout Engineer: FAWAD MUNAWAR Company Name: XILINX, INC.

Design Engineer: BRIAN FORSSE Project Name: HW-VC707

Whizz Job Number: 6041 Date: 11.03.2012 Project Number: 1280586 REV. 1.1

LATEST NETLIST REV OR DATE: 02.04.2012

LATEST MECHANICAL REV OR DATE: mm.dd.yyyy

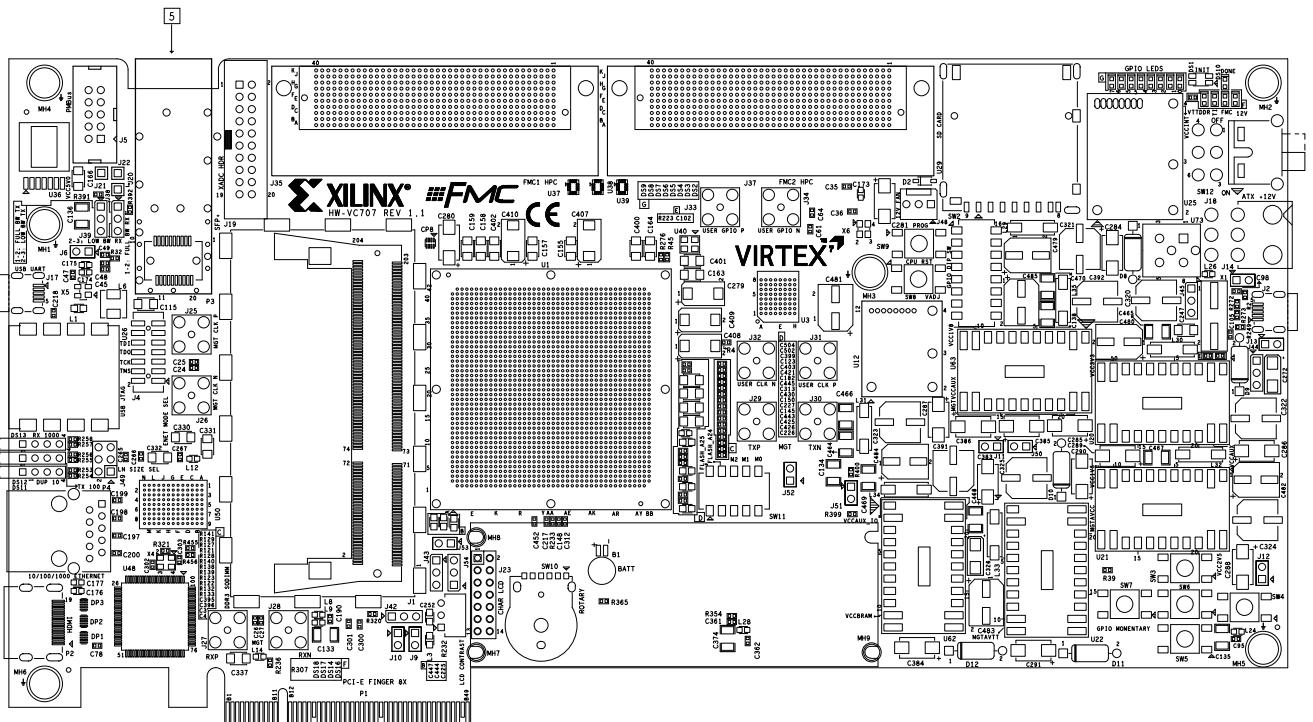
## REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1.1	INITIAL RELEASE	11/03/12	BF

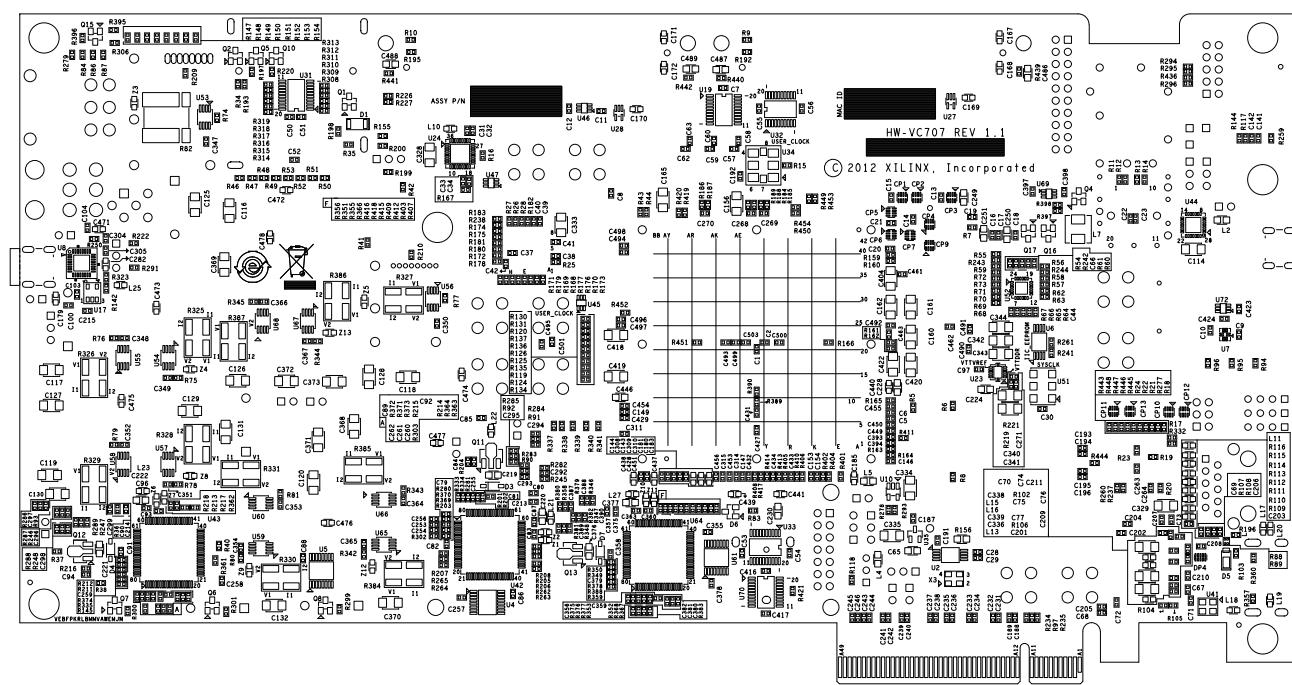
D

D

- 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.
  5. P3 IS PRESSFIT CONNECTOR.



VIEWED FROM TOP SIDE



VIEWED FROM BOTTOM SIDE

A

A

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVAL	DATE	CUSTOMER:	
LINEAR DIMENSIONS      ANGLES		DRAWN:		XILINX, INC	
.XX	= ± .010	XX XX	= ± 0.3°	CHECKED:	Rashid Mehmood
.XX	= ± .030	XX X	= ± 1.0°	11-03-12	11-03-12
X	= ± .100	XX	= ± 5.0°	ENGR:	Brian Forsse
DRAWING SYMBOLS & TOLERANCE PER ANSI Y14.5M-1994		APPROVAL:		PROJECT NAME:	HW-VC707
WHIZZ SYSTEMS INC. 3240 SCOTT BLVD SANTA CLARA, CA 95054 TEL: 408-980-0400		DRAWN:		SIZE:	D ASSY DWG. NO.
WHIZZ MS		CHECKED:		REV.	1 . 1
DO NOT SCALE DRAWING		APPROVAL:		SHEET	1 OF 1
WHIZZ JOB NO. 6041		DO NOT SCALE DRAWING			