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A										A																																																																													
B										B																																																																													
C	Manaus 10 CS BUILD									C																																																																													
D	2010.03.18									D																																																																													
E										E																																																																													
F	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																									DATE	CHANGE NO.	REV				<table><tr><td>DRAWER</td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">SIZE = 3 VER :</td></tr><tr><td colspan="5">FILE NAME : XXXX-XXXXXX-XX</td></tr><tr><td>P/N</td><td colspan="4">XXXXXXXXXXXX</td></tr></table>	DRAWER	EE	DATE	POWER	DATE	DESIGN					CHECK					RESPONSIBLE					SIZE = 3 VER :					FILE NAME : XXXX-XXXXXX-XX					P/N	XXXXXXXXXXXX						<table><tr><td colspan="4">INVENTEC</td></tr><tr><td colspan="4">TITLE Berlin 10</td></tr><tr><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER ES</td><td>REV AX1</td></tr><tr><td colspan="4">SHEET 1 OF 61</td></tr></table>	INVENTEC				TITLE Berlin 10				SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1	SHEET 1 OF 61				
DATE	CHANGE NO.	REV																																																																																					
DRAWER	EE	DATE	POWER	DATE																																																																																			
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SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1																																																																																				
SHEET 1 OF 61																																																																																							
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	1	2	3	4	5	6	7	8		
A										A
B										B
C										C
D										D
E										E
F										F

Manaus 10

CS BUILD

2010.03.18

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3 VER :				
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			

TITLE INVENTEC Berlin 10			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
SHEET 1 OF 61			

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	1	2	3	4	5	6	7	8		
A										A
B										B
C										C
D										D
E										E
F										F

Manaus 10			
CS BUILD			
2010.03.18			

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3		VER :		
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			

INVENTEC			
TITLE Berlin 10			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
SHEET 1 OF 61			

1	2	3	4	5	6	7	8
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6. SYSTEM POWER
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8. SYSTEM POWER
9. SYSTEM POWER
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- 11.SYSTEM POWER
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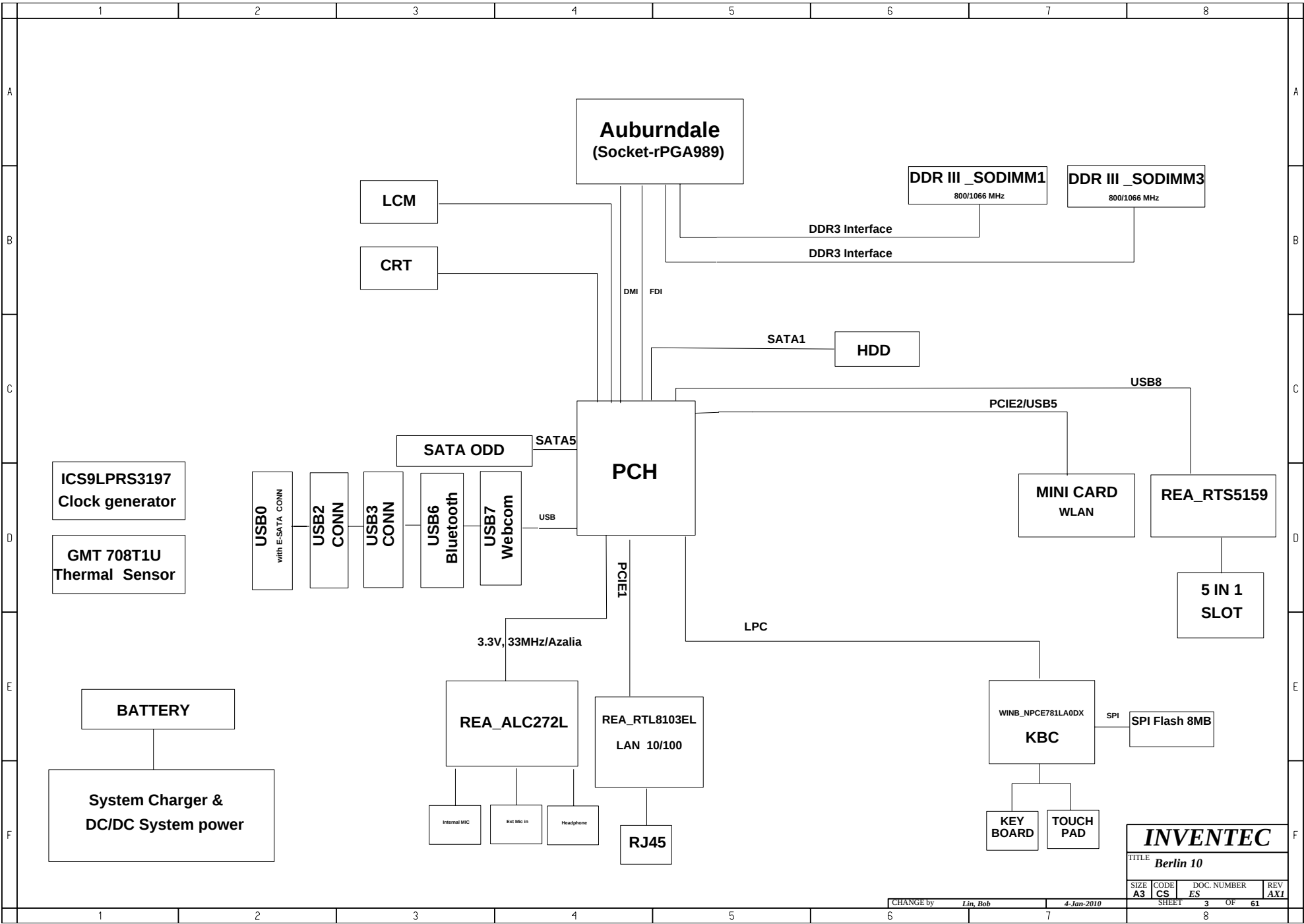
- 61.DDR DAMPING

INVENTEC

TITLE
Berlin 10

SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
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CHANGE by *Lin, Bob* 26-Jan-2010



INVENTEC

TITLE
Berlin 10

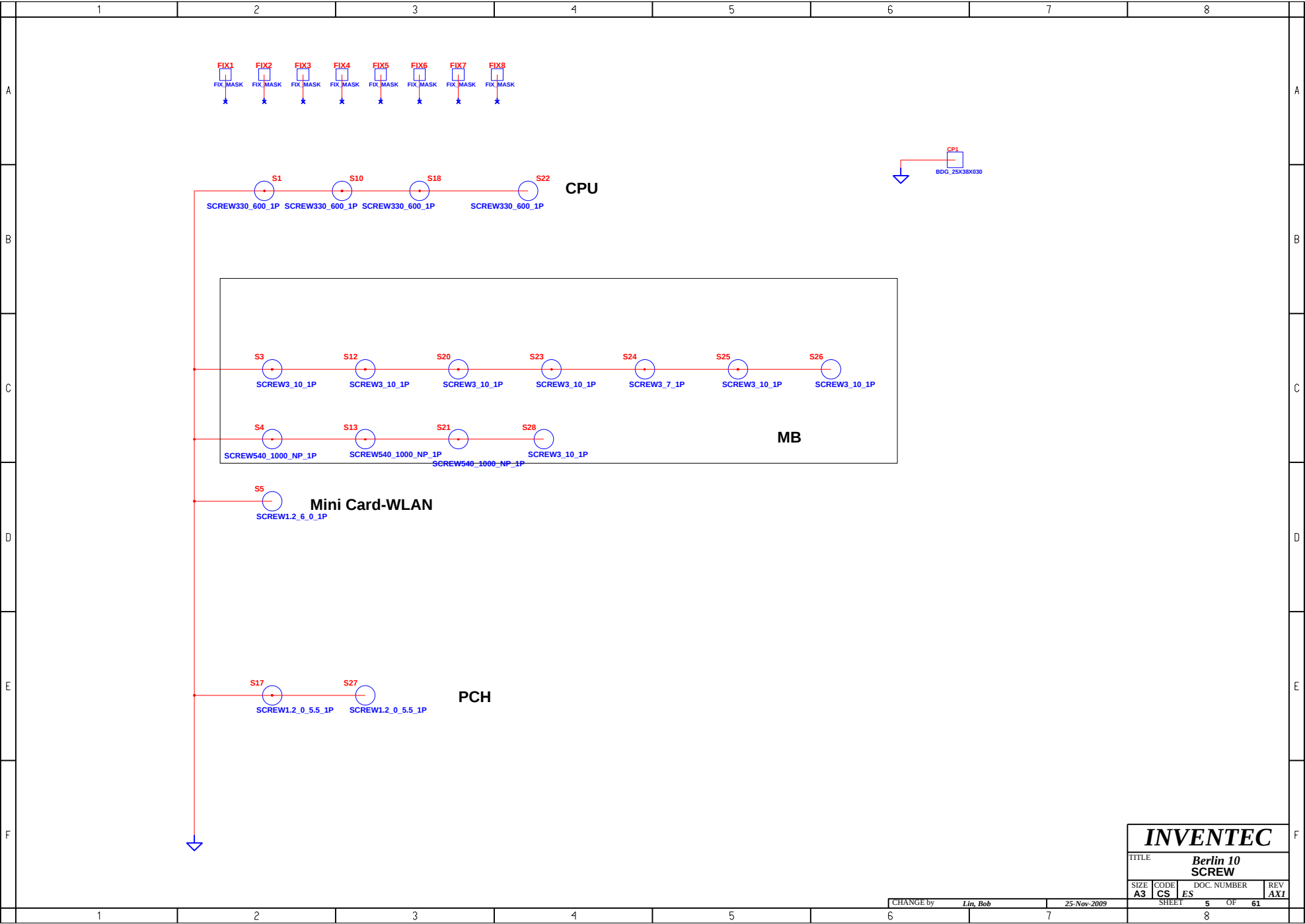
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A3	CS	ES	AX1

SHEET 3 OF 61

CHANGE by Lin, Bob 4-Jan-2010

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A	Add Excel Power map								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
CHANGE by <i>Lin, Bob</i>		25-Nov-2009	
SHEET		4	OF 61



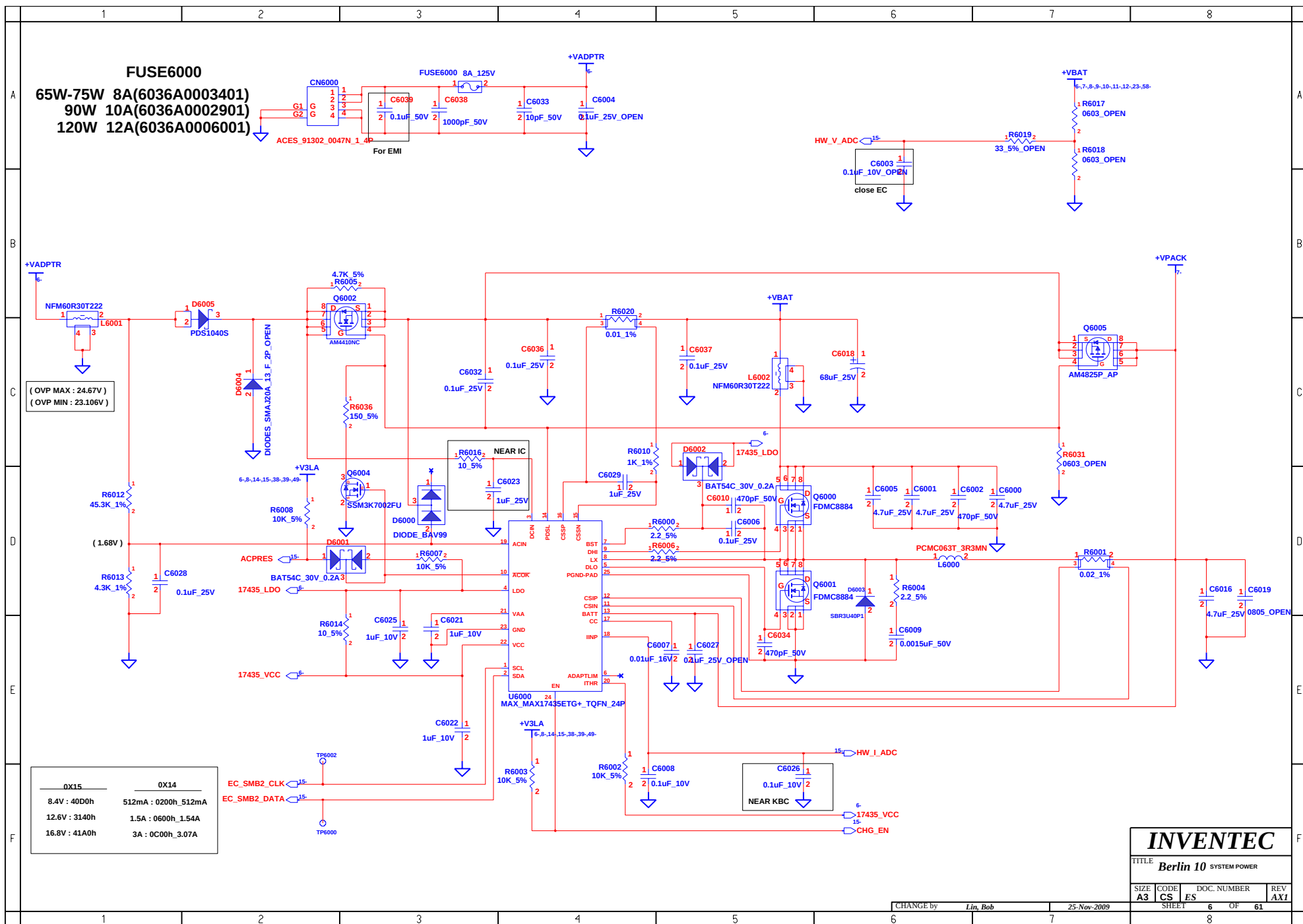
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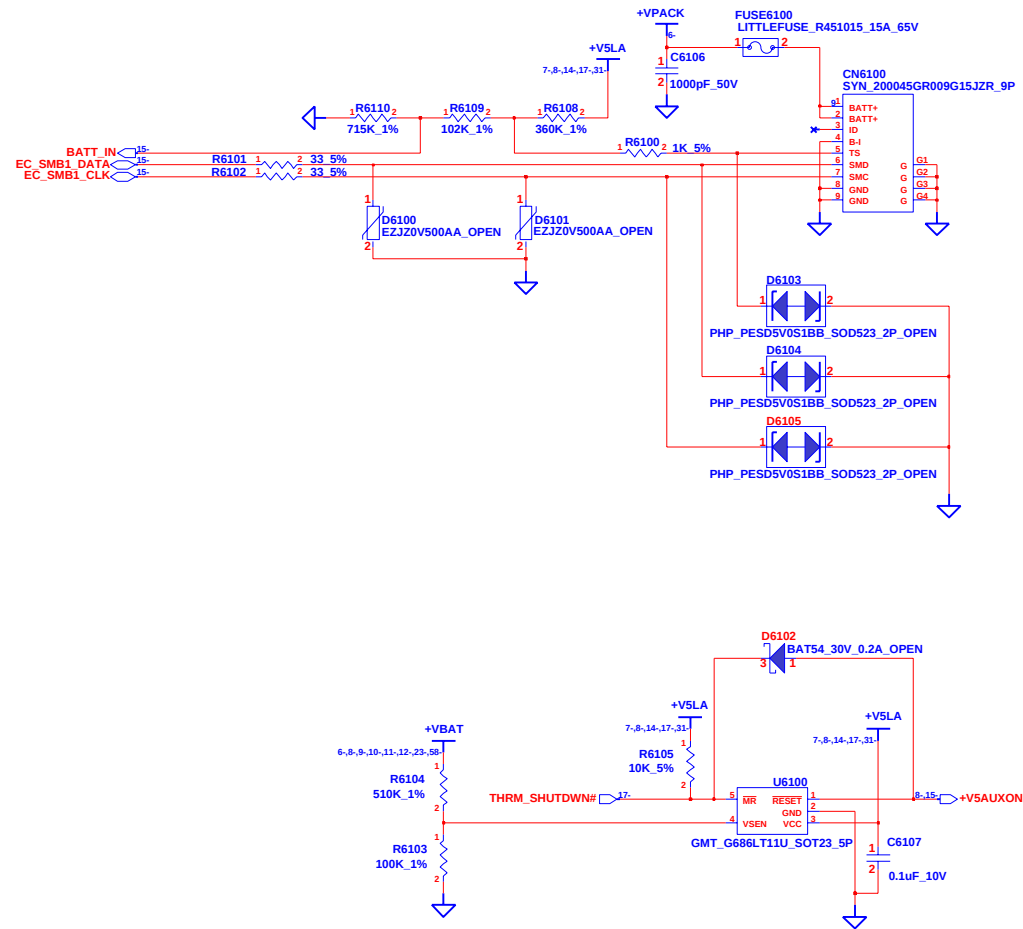
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SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
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CHANGE by *Lin, Bob* 25-Nov-2009

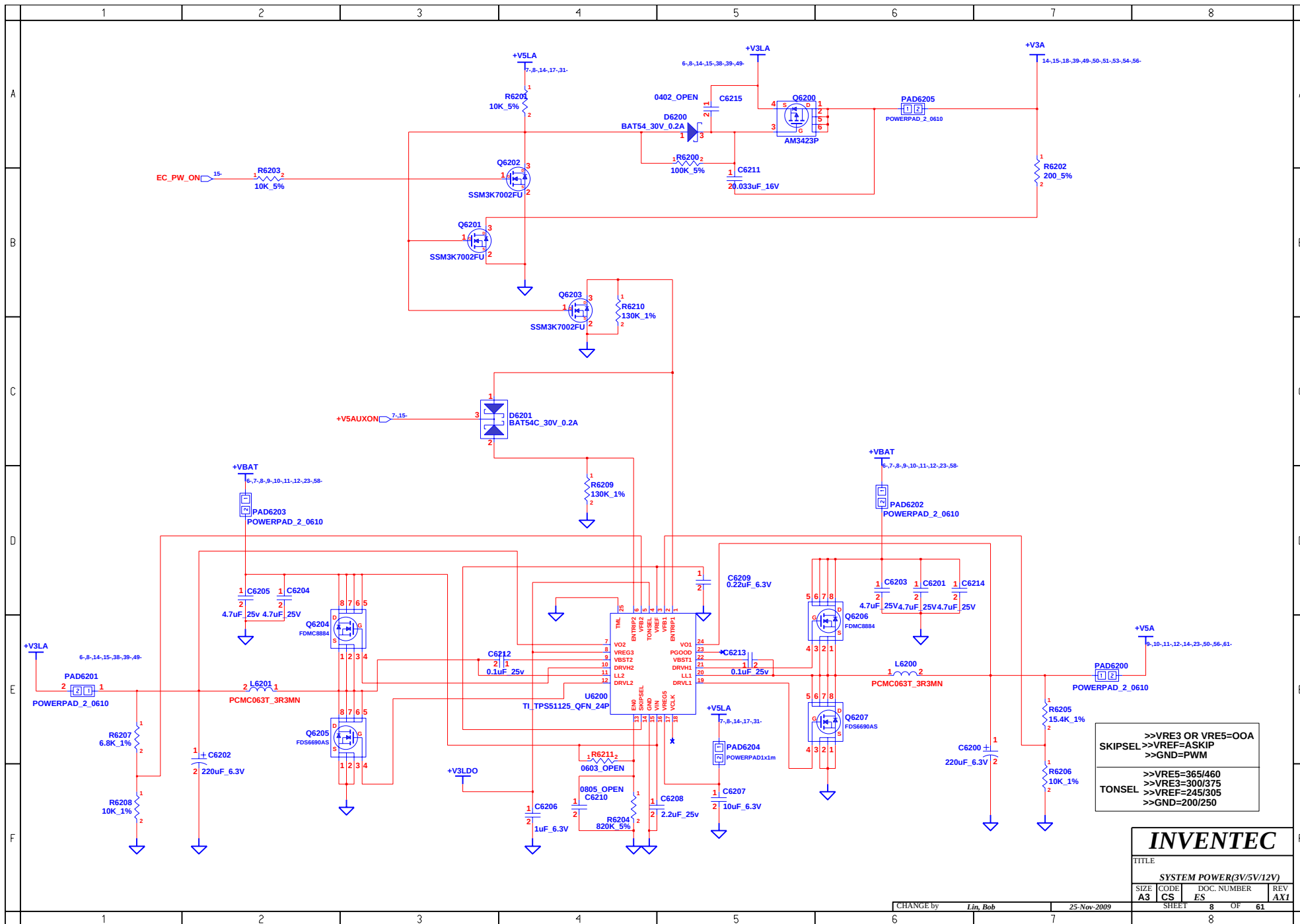
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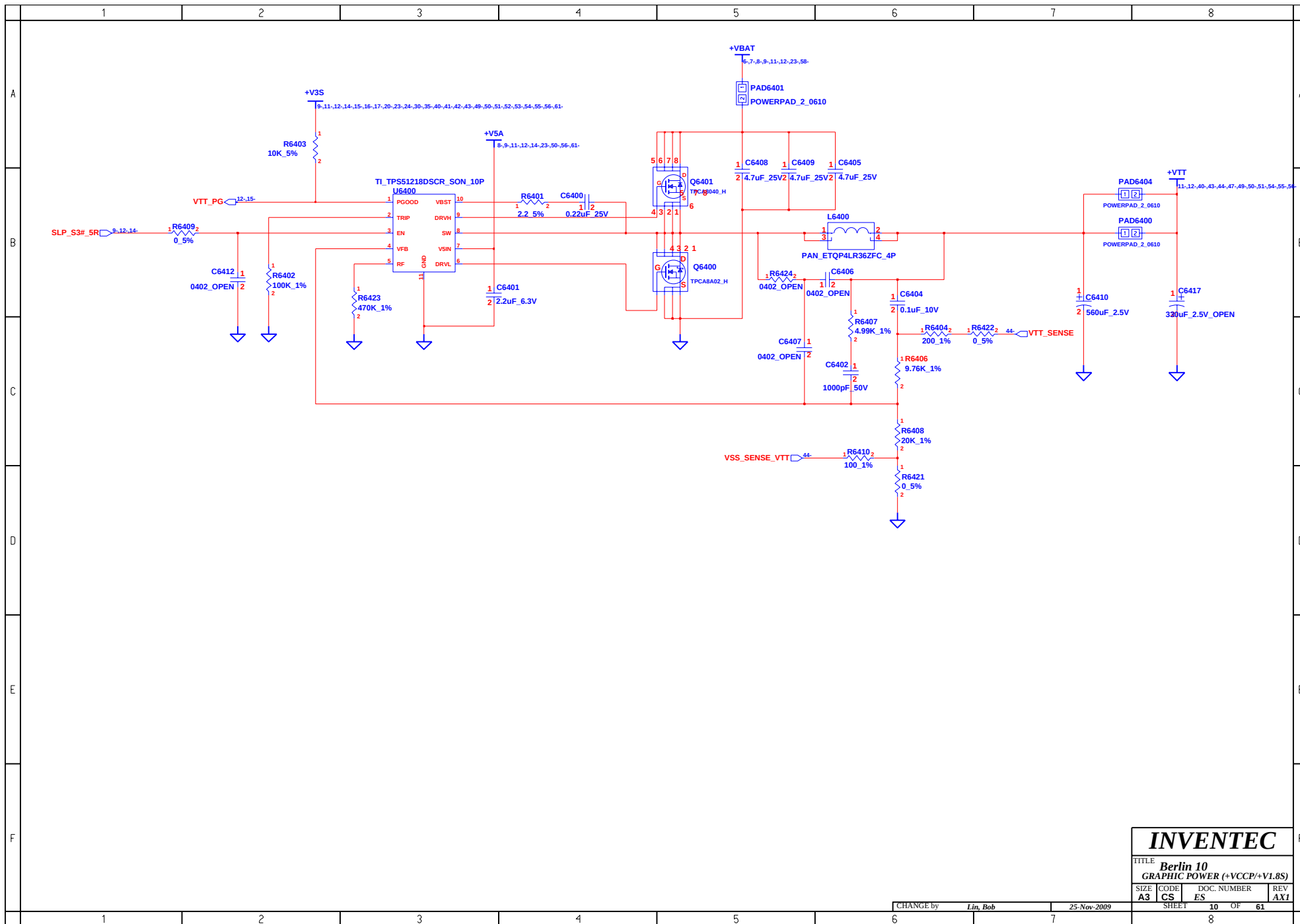




INVENTEC			
TITLE			
Berlin 10			
SELECT & BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
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CHANGE by Lin, Bob 25-Nov-2009





INVENTEC			
TITLE Berlin 10			
GRAPHIC POWER (+VCCP/+VL8S)			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
SHEET 10		OF 61	

CHANGE by *Lin, Bob* 25-Nov-2009

8

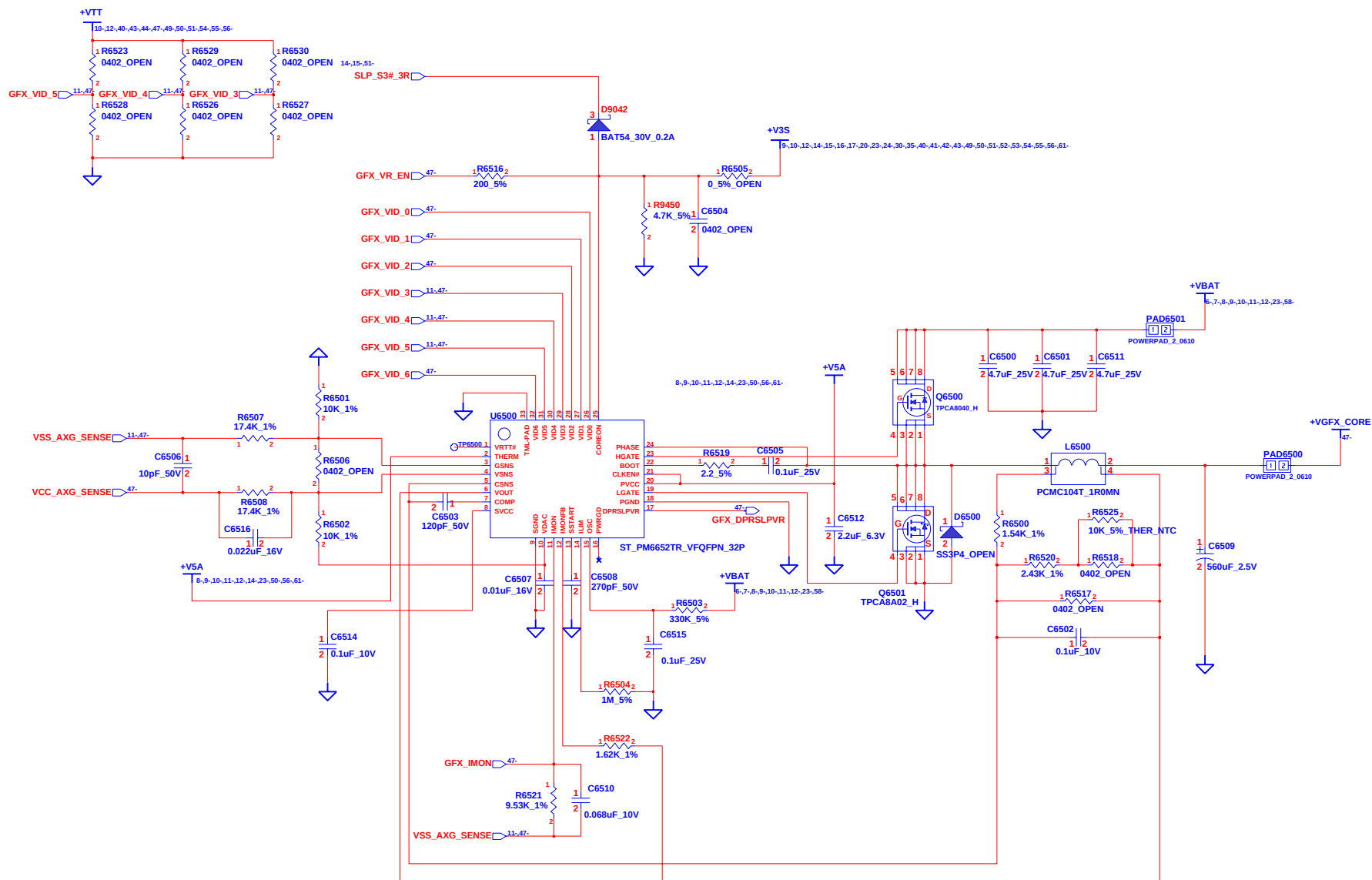
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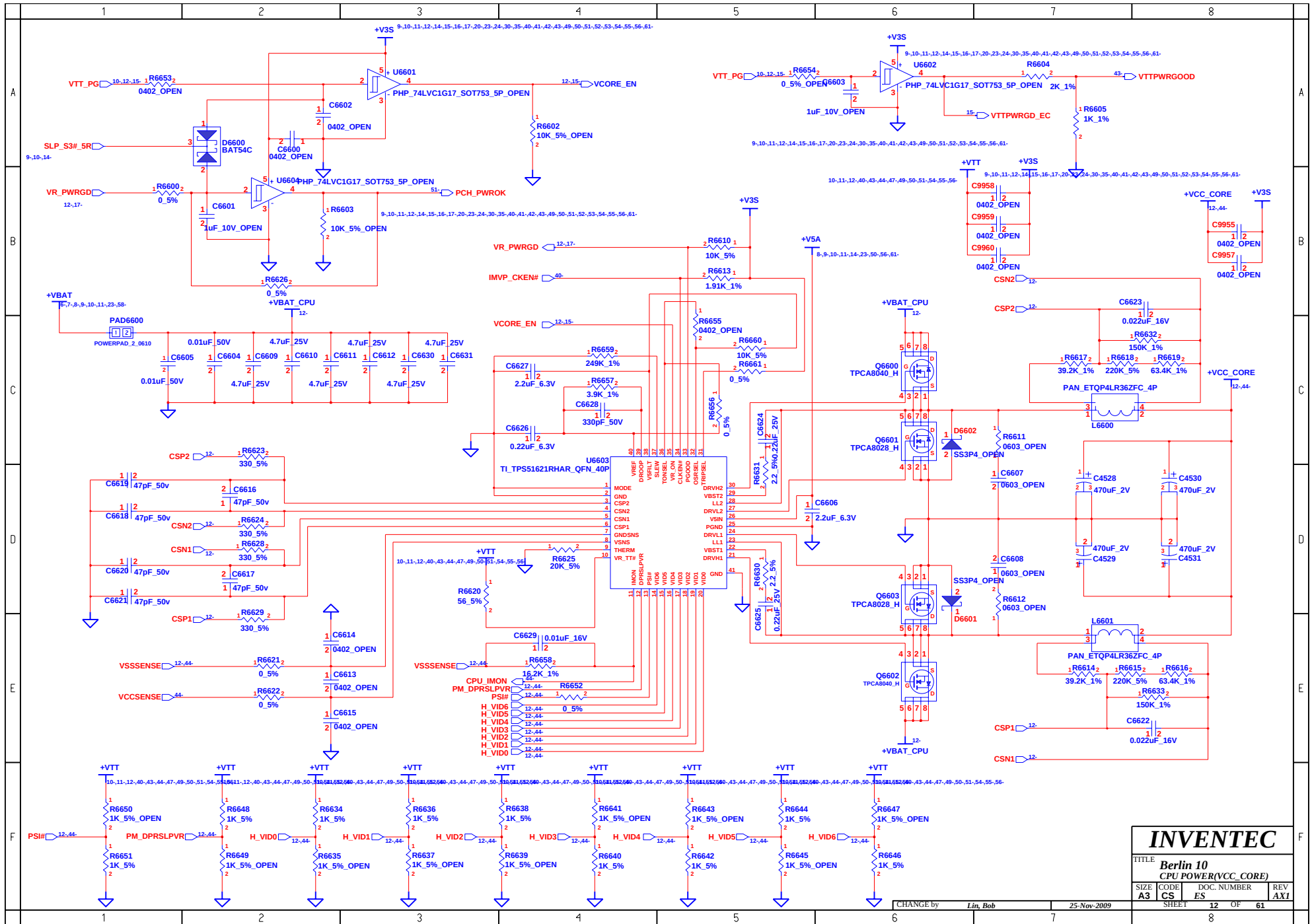
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Berlin 10			
SYSTEM POWER(+VGF_X_CORE)			
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A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

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8

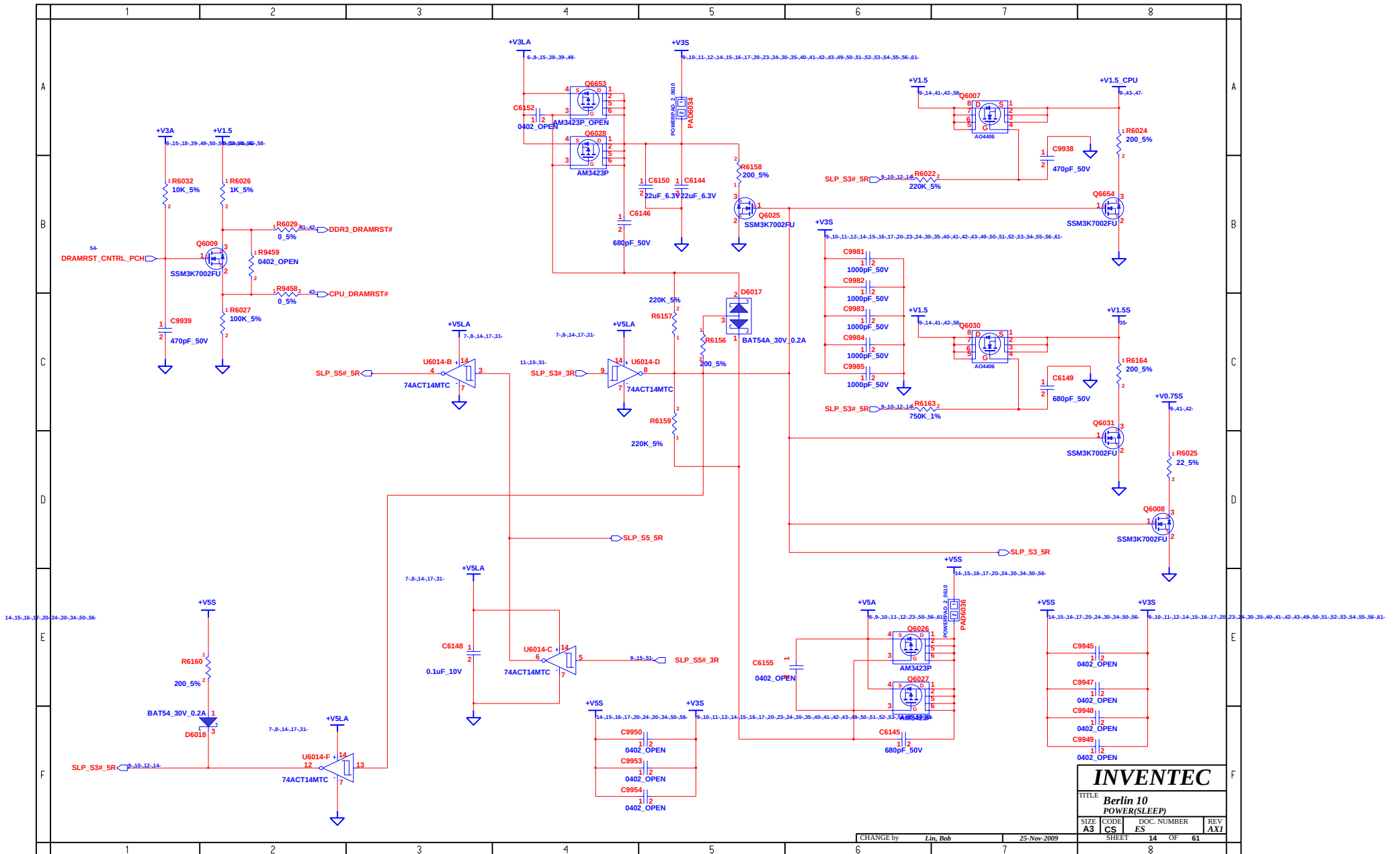


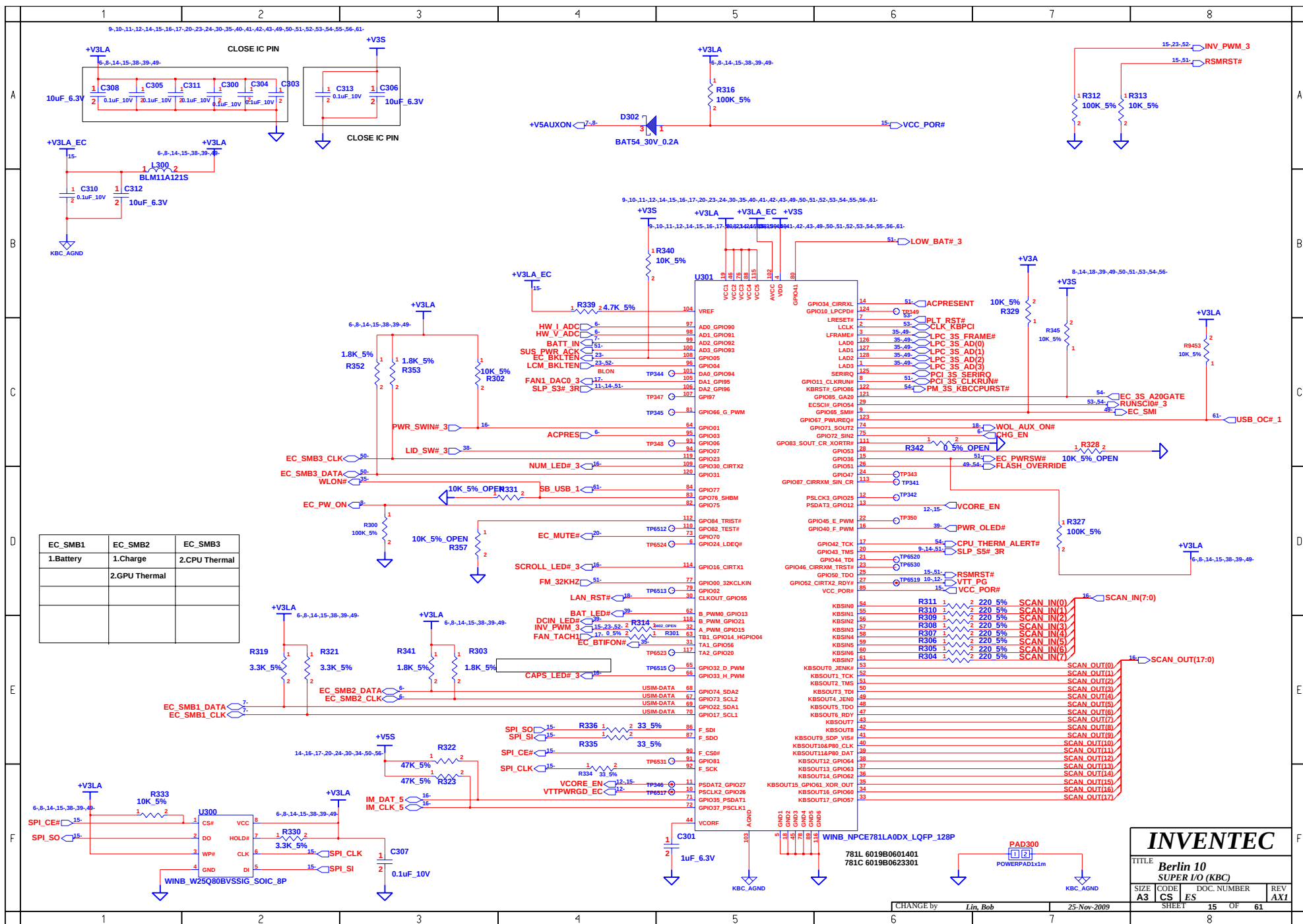


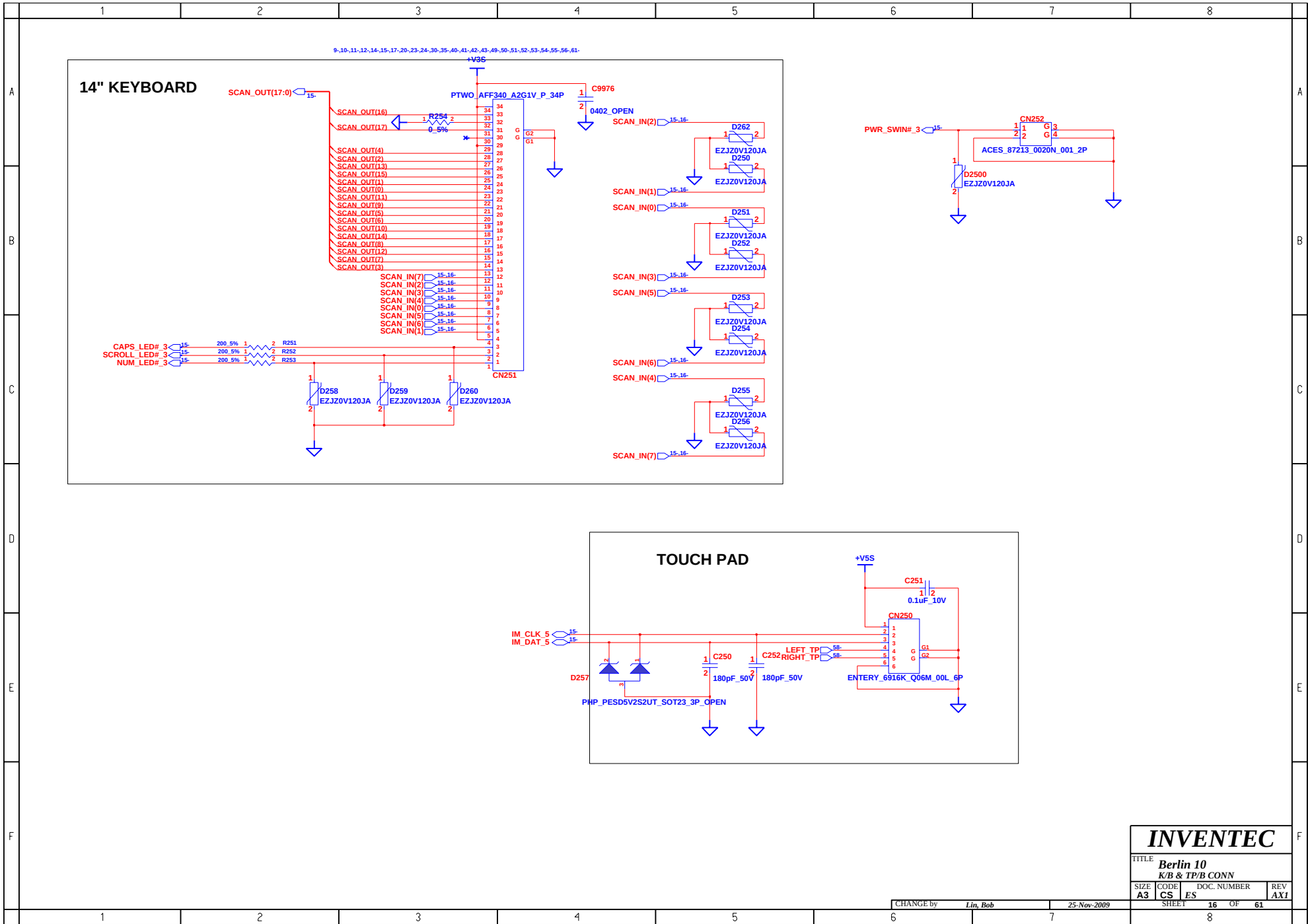
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A	skip								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

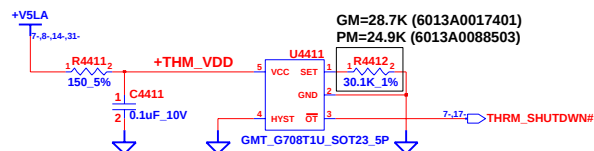
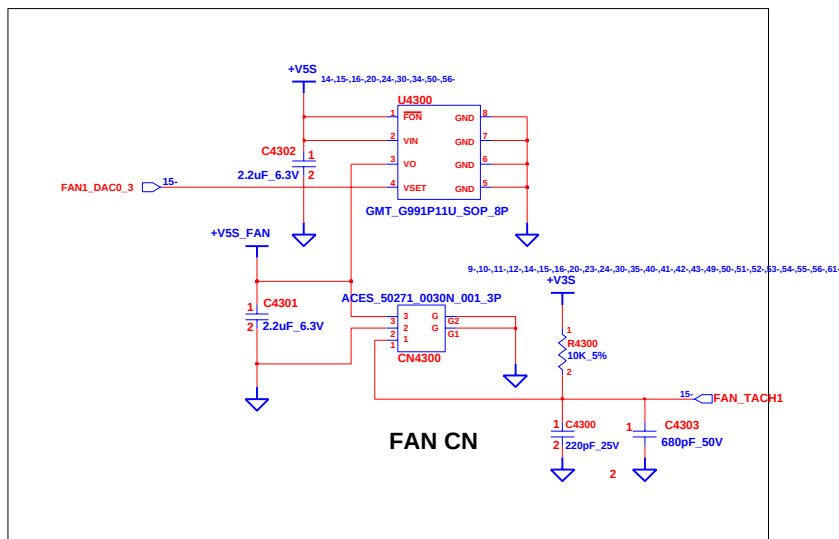
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CHANGE by Lin, Bob 25-Nov-2009

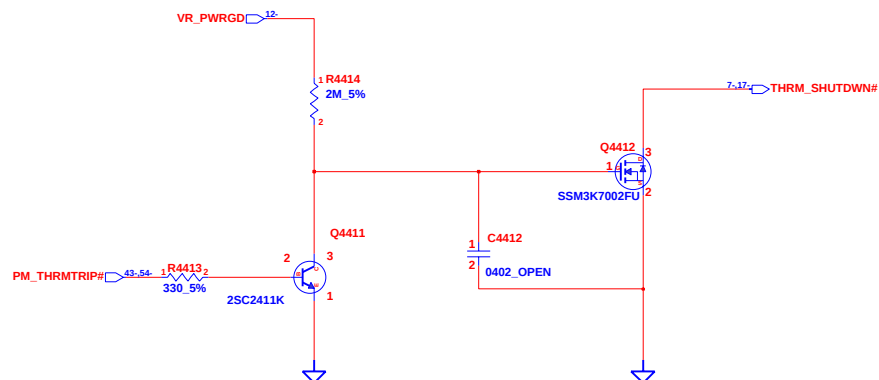








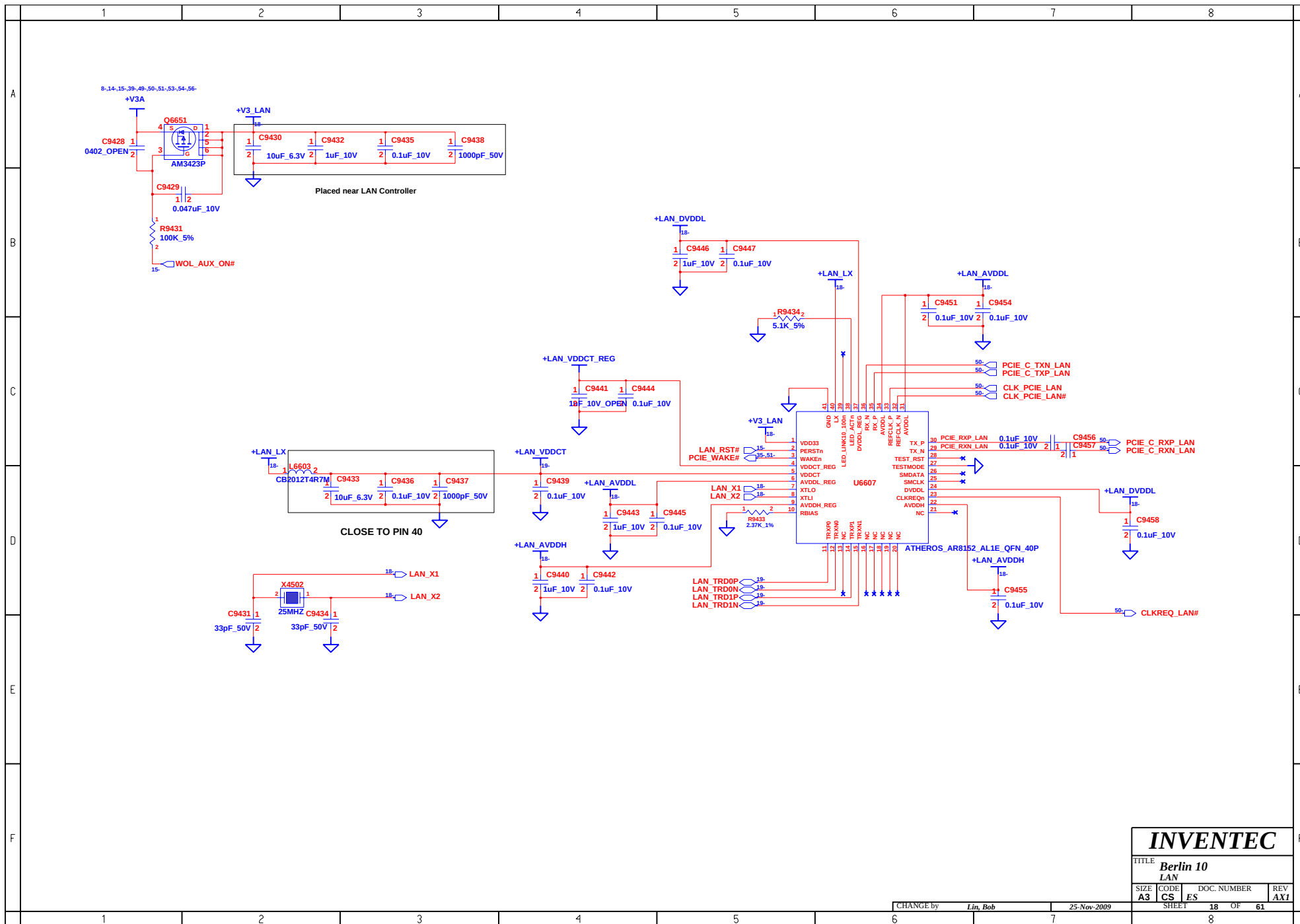
GM Thermal shutdown at 80.8°C +/-3°C from 60°C to 100°C
 PM Thermal shutdown at 86°C +/-3°C from 60°C to 100°C
 $RSET=0.0012 \cdot T^2 - 0.9308 \cdot T + 96.147$
 Hysteresis is 30C



INVENTEC

TITLE			
Berlin 10			
FAN, Thermal controller			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1
SHEET		17	OF 61

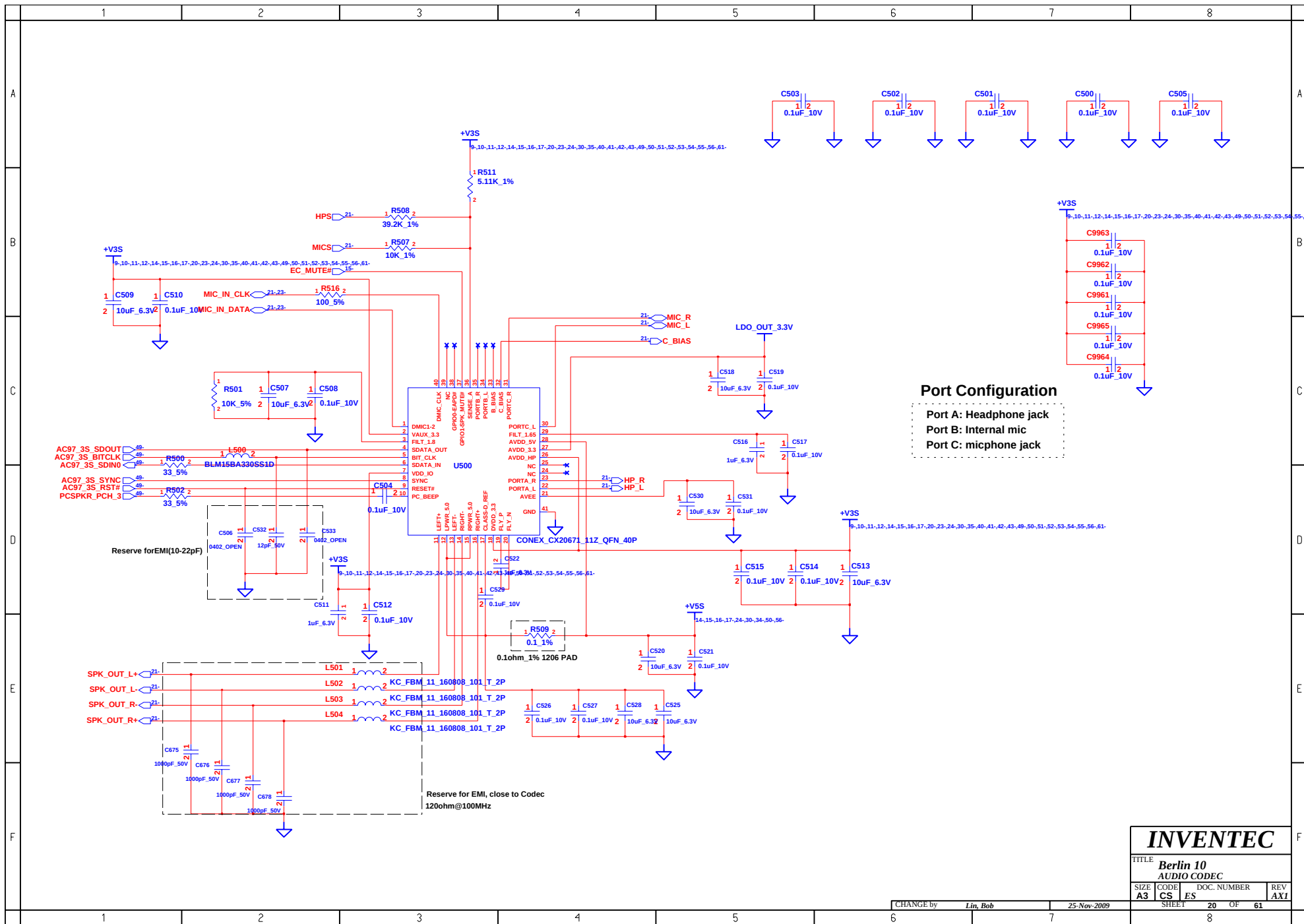
CHANGE by Lin, Bob 25-Nov-2009



INVENTEC

TITLE			
Berlin 10			
LAN			
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SHEET		18 OF	61

CHANGE by Lin, Bob 25-Nov-2009

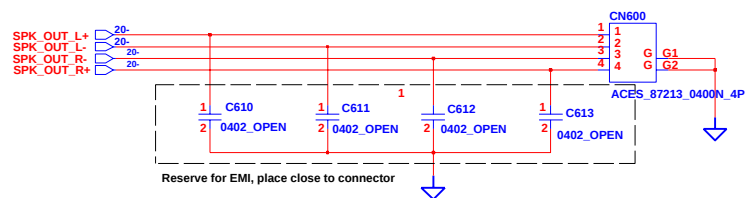


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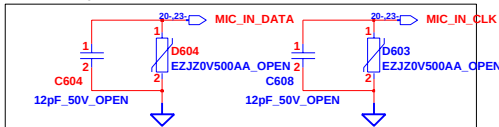
TITLE			
Berlin 10 AUDIO CODEC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1
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CHANGE by Lin, Bob 25-Nov-2009

INTERNAL SPEAKERS

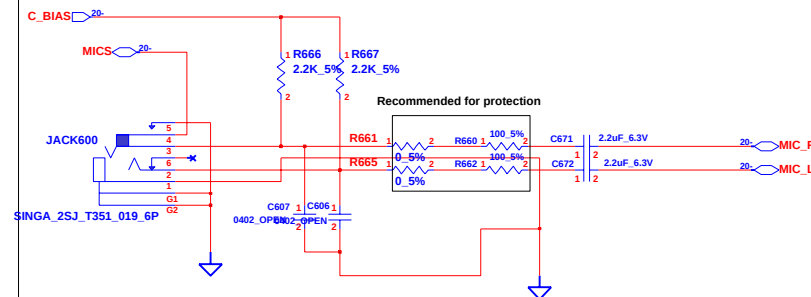


INTERNAL MIC

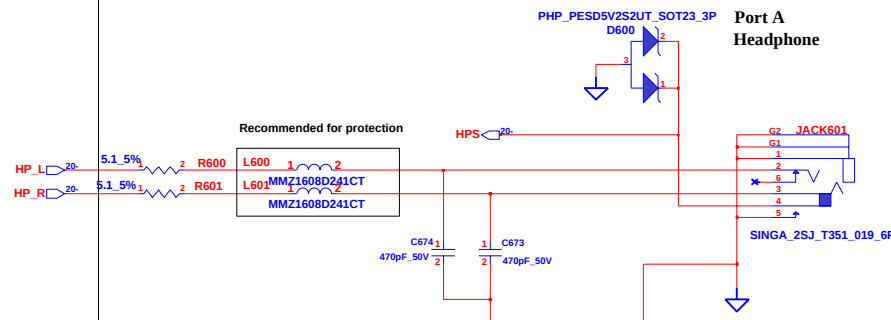


AUDIO JACKS

Port C External microphone



Port A Headphone



INVENTEC

TITLE			
Berlin 10			
AUDIO AMP&MIC&SPEAKER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

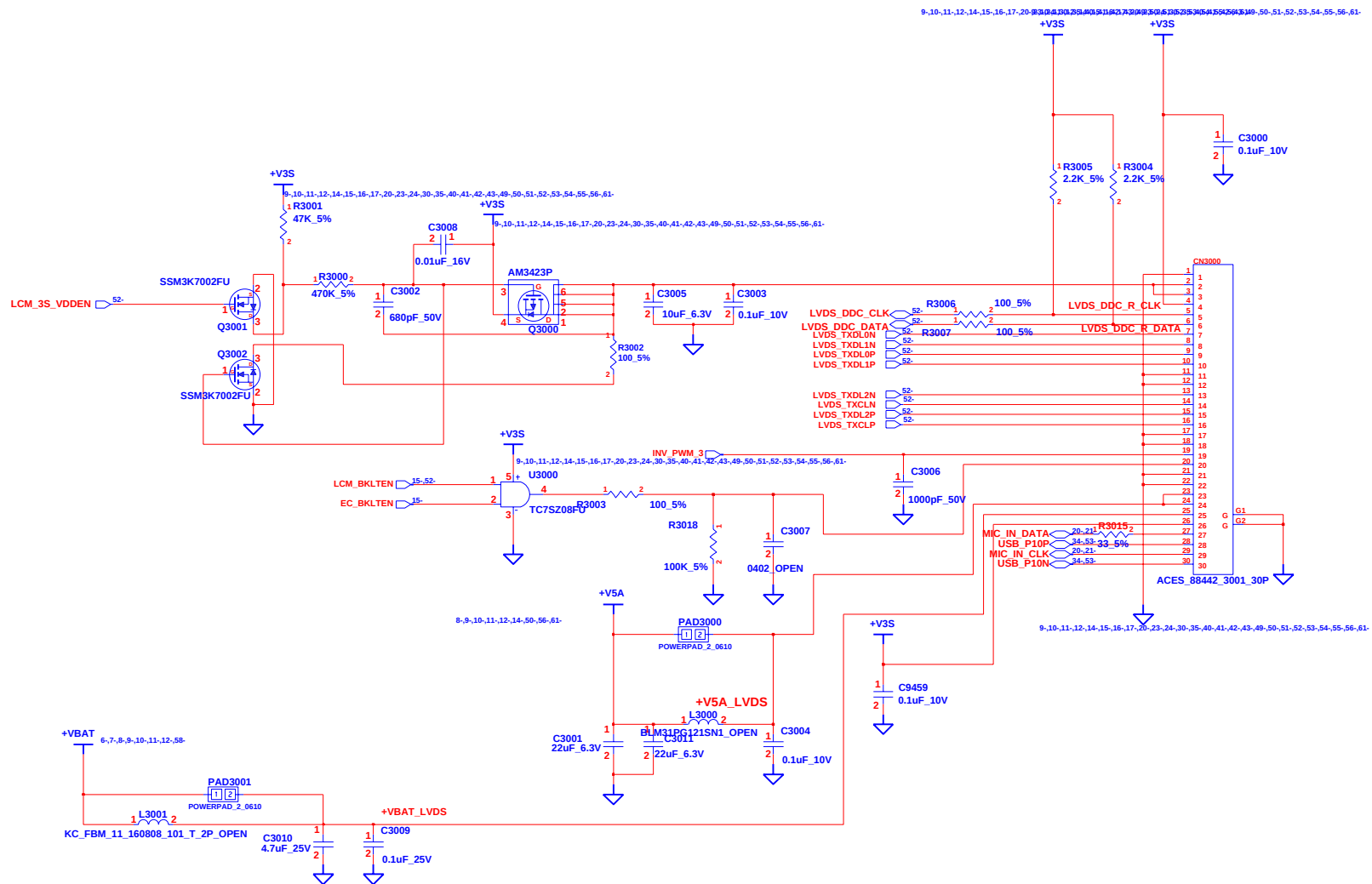
CHANGE by Lin, Bob 25-Nov-2009

SHEET 21 OF 61

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10			
MDC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		22	OF 61

CHANGE by Lin, Bob 4-Jan-2010

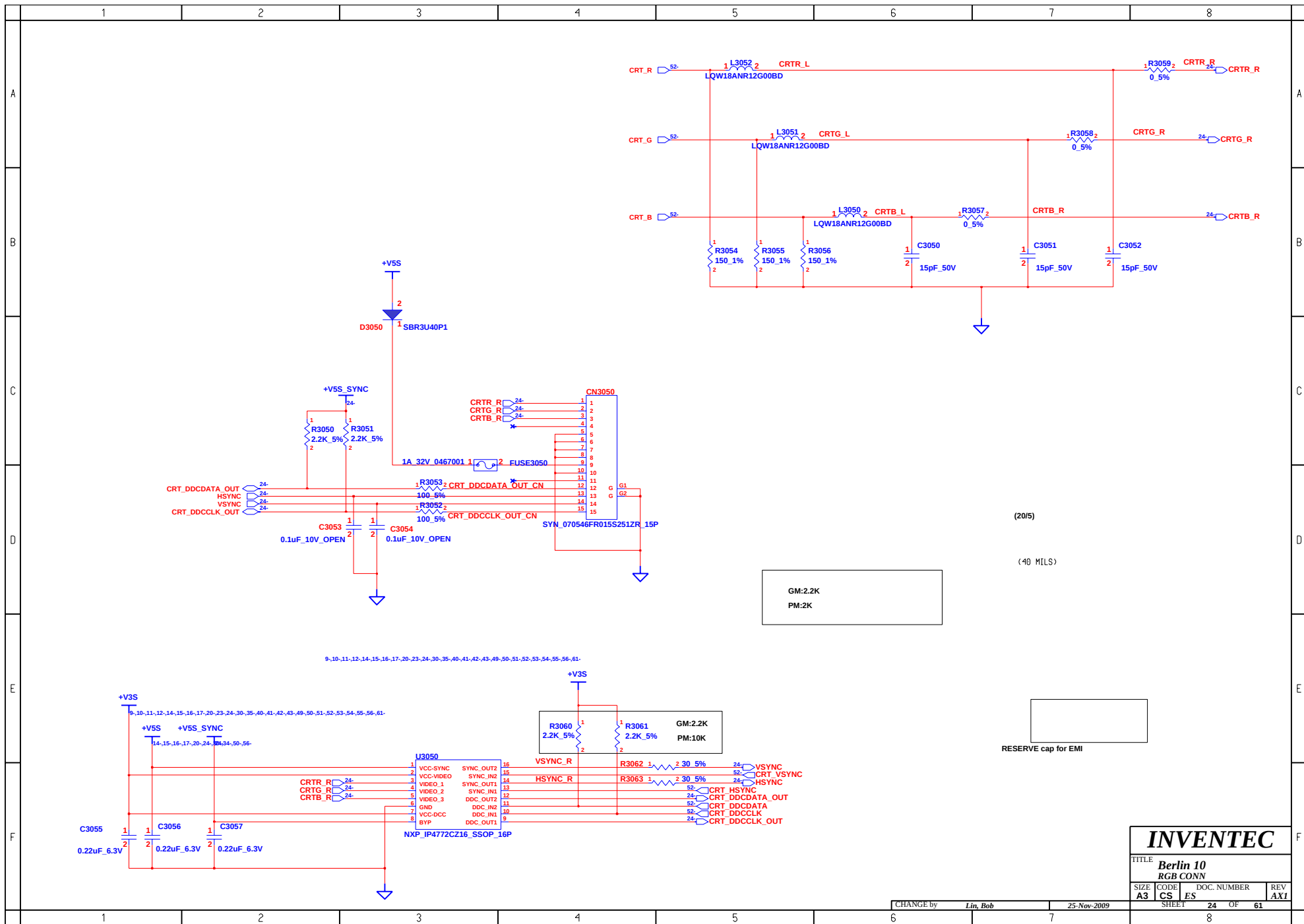


INVENTEC

TITLE			
Berlin 10			
LCM CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		23	OF 61

CHANGE by Lin, Bob 25-Nov-2009

8



	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		25-Nov-2009	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE Berlin 10			
CEC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>ES</i>	AXI
SHEET		25	OF 61

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10 <i>HDMI Level Shifter</i>			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
SHEET 26 OF 61			

CHANGE by *Lin, Bob* 4-Jan-2010

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		4-Jan-2010	
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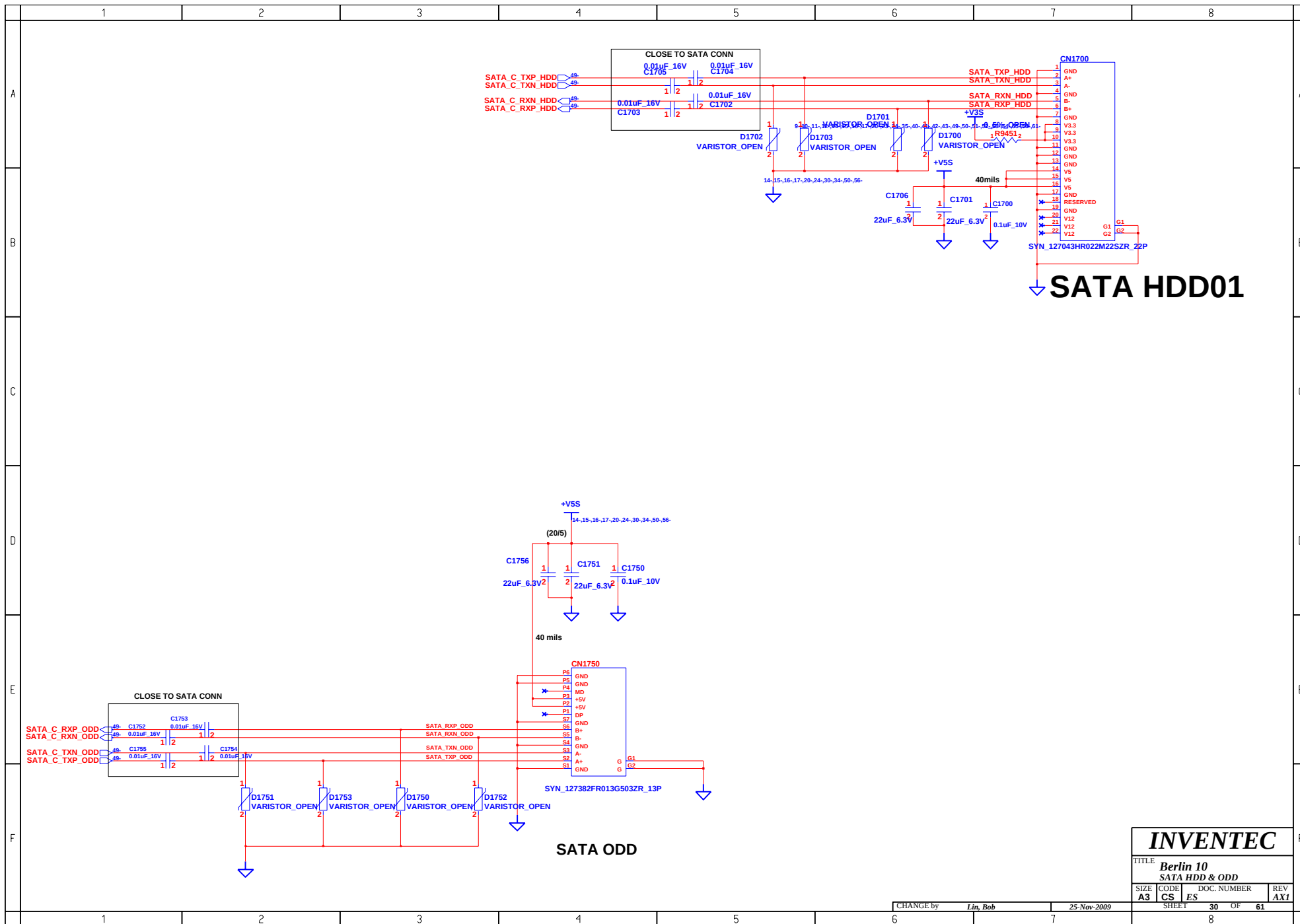
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B									B
C									C
D									D
E									E
F									F
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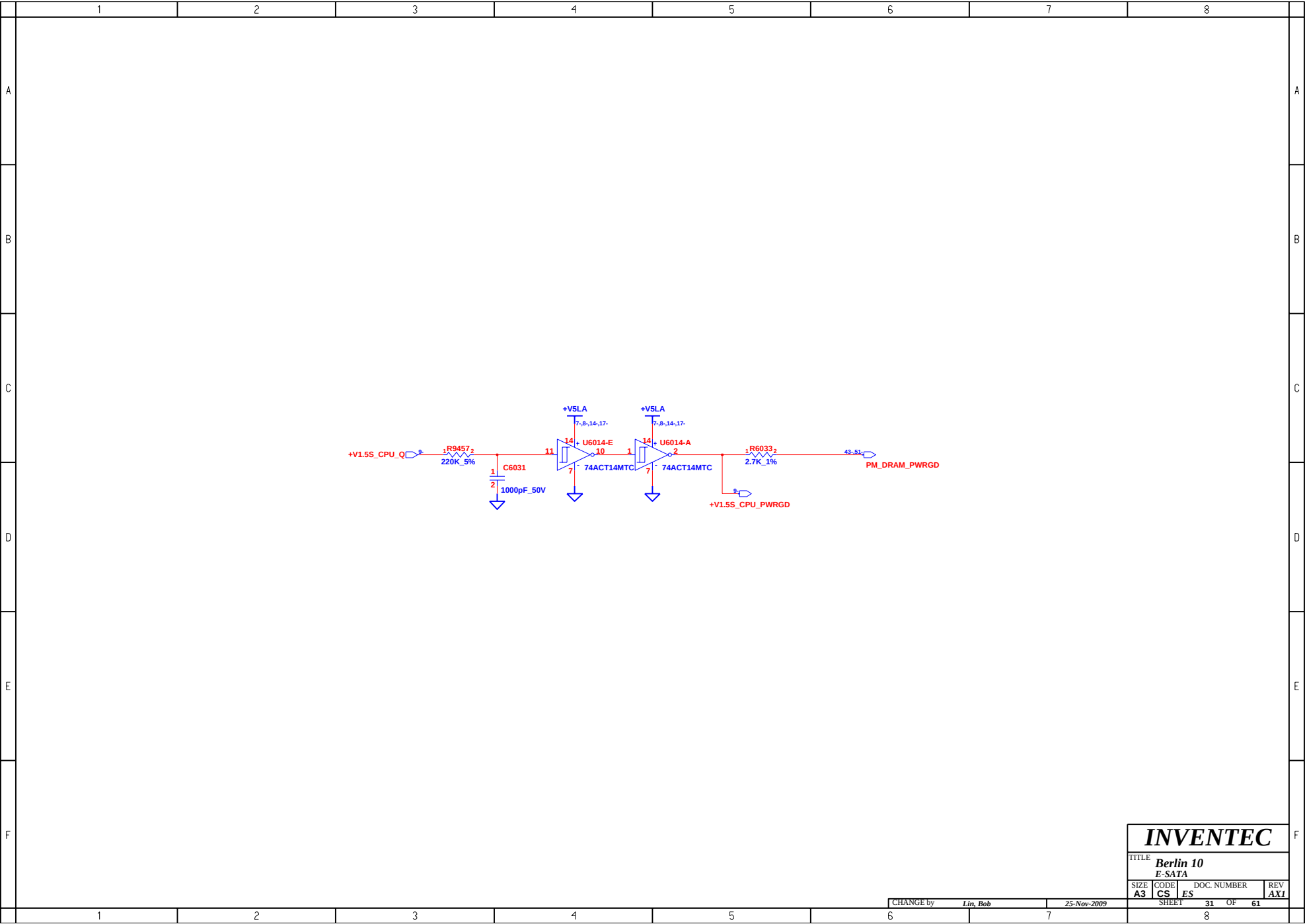
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SHEET 28 OF 61			

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A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10 Cardreader</i>			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
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INVENTEC			
TITLE			
Berlin 10			
SATA HDD & ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
CHANGE by Lin, Bob		25-Nov-2009	
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INVENTEC

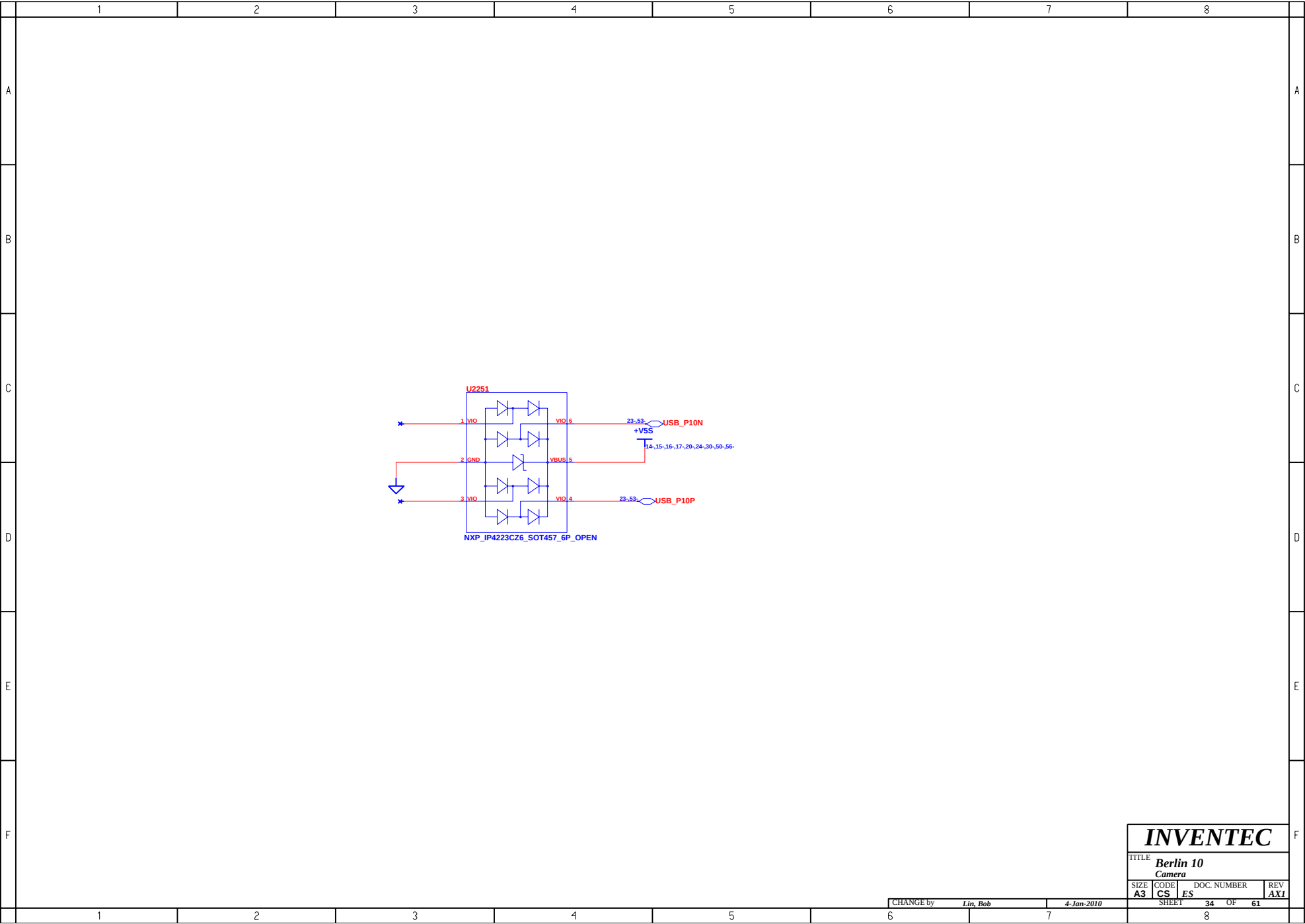
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Berlin 10			
E-SATA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1
CHANGE by		25-Nov-2009	
Lin, Bob			
SHEET		31 OF	61
		8	

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		4-Jan-2010	
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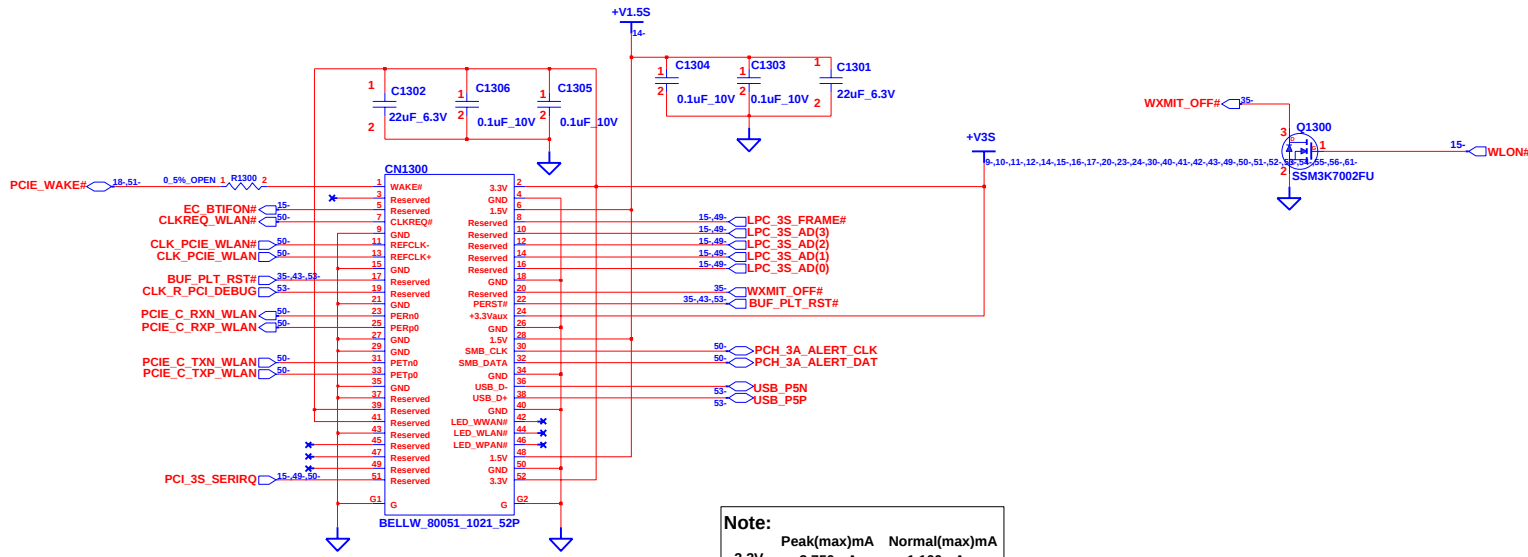
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SHEET 32 OF 61			

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B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10 Bluetooth</i>			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1
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Wireless & Debug card



MINI CARD 1

INVENTEC

TITLE			
Berlin 10			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		35	OF 61

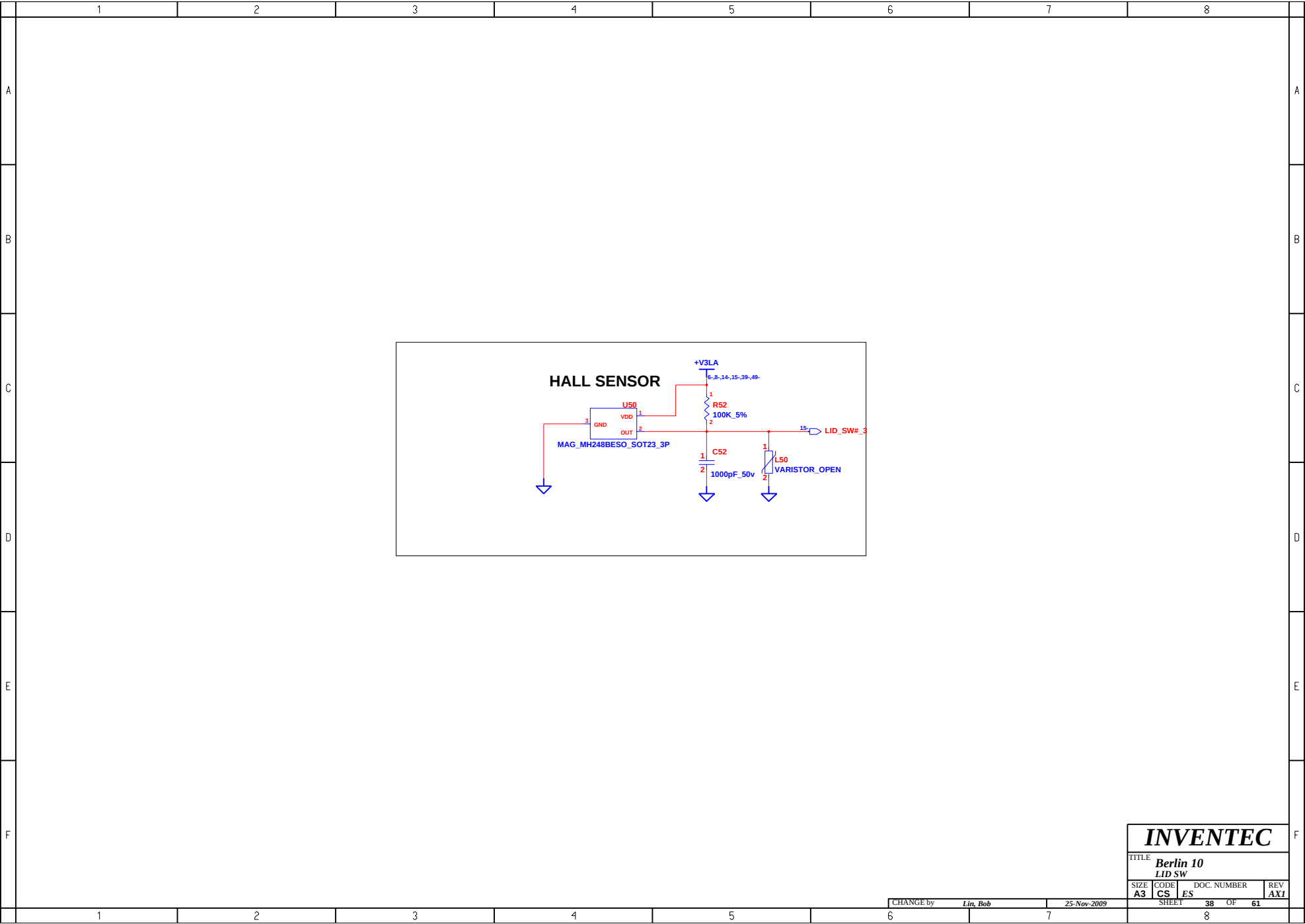
CHANGE by Lin, Bob 25-Nov-2009

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B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lin, Bob</i>		<i>4-Jan-2010</i>	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10</i> <i>3D sensor</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV <i>AX1</i>
SHEET		36	OF 61

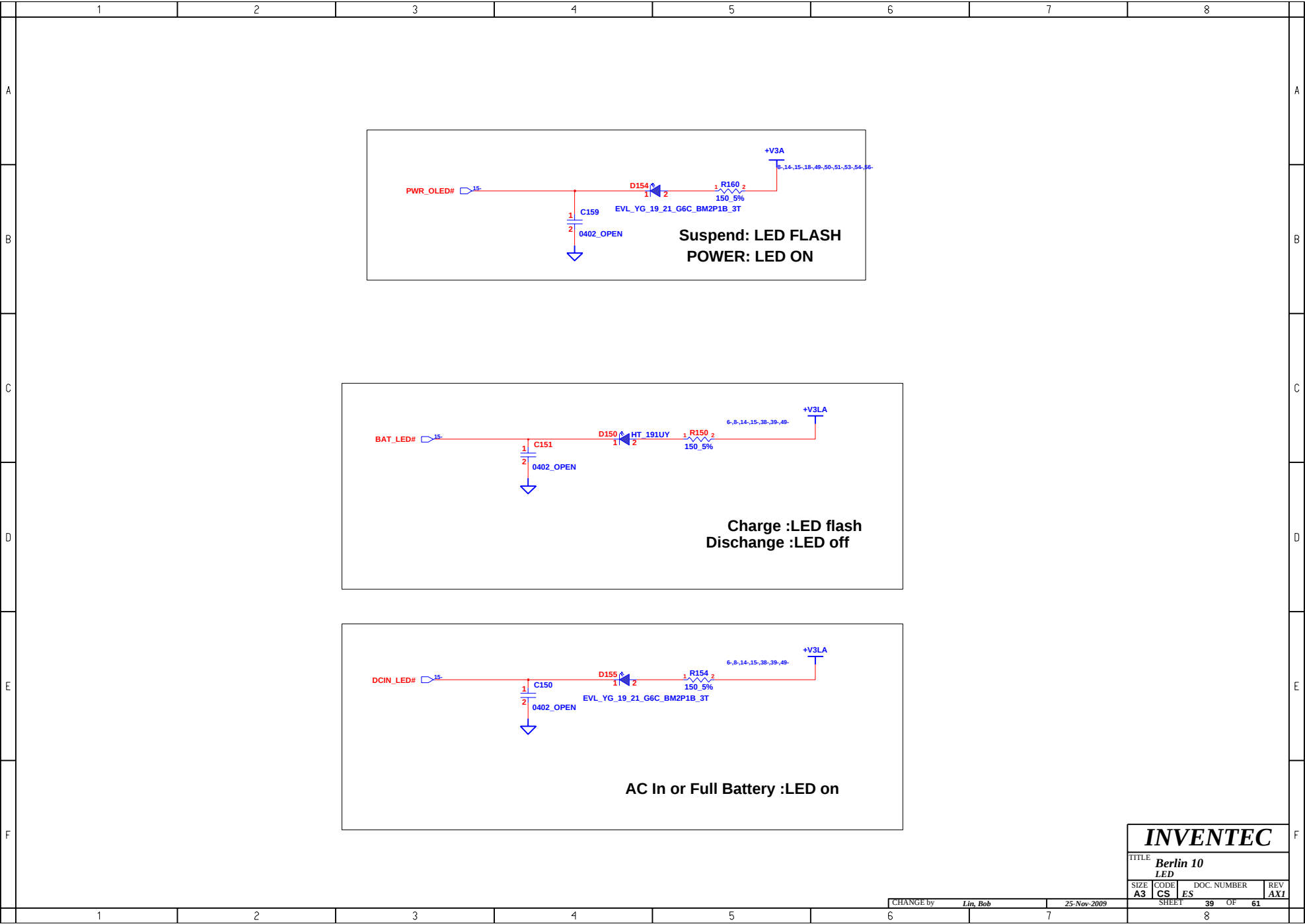
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B									B
C									C
D									D
E									E
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						CHANGE by <i>Lin, Bob</i>		4-Jan-2010	
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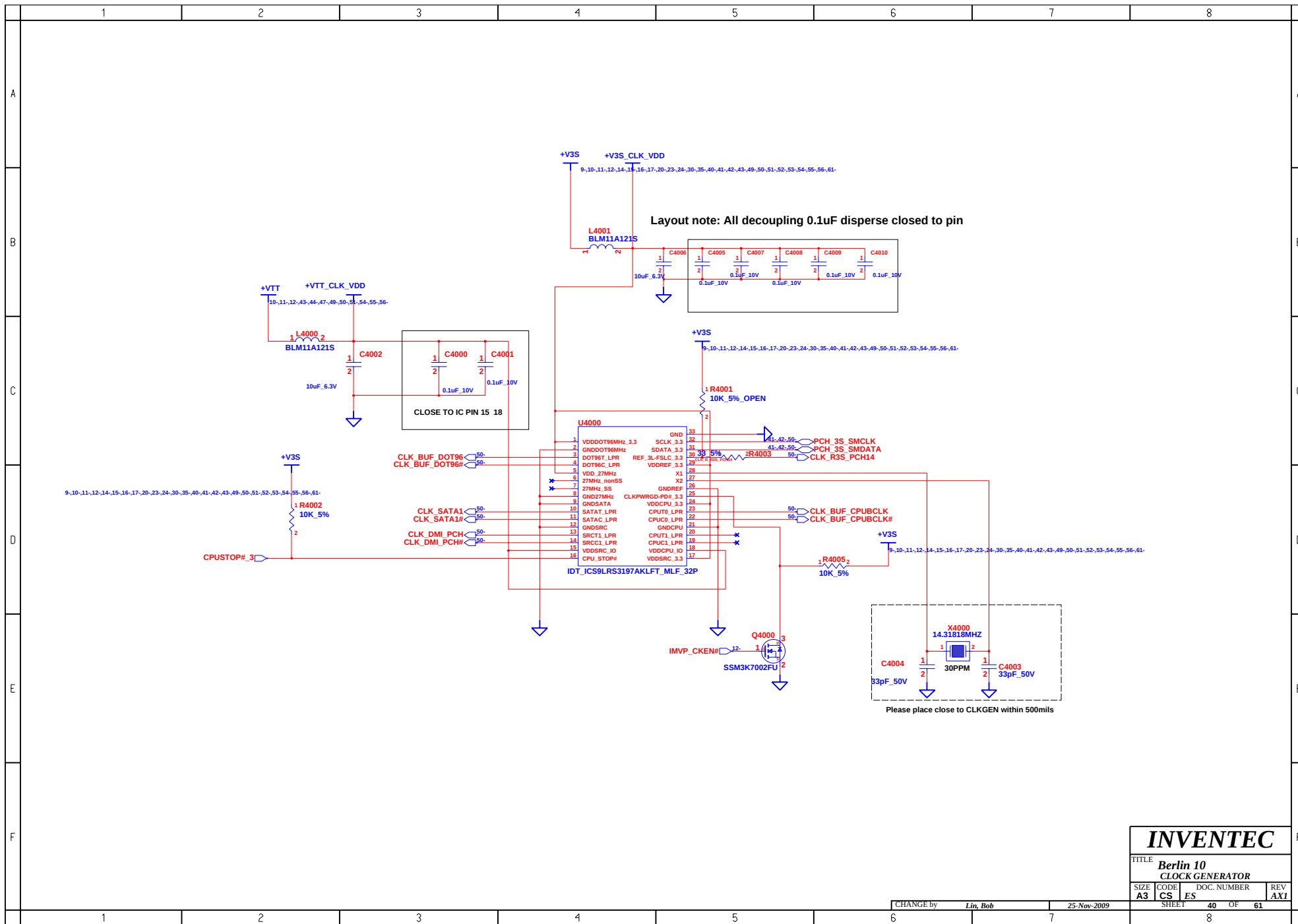
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SHEET		37	OF 61



INVENTEC

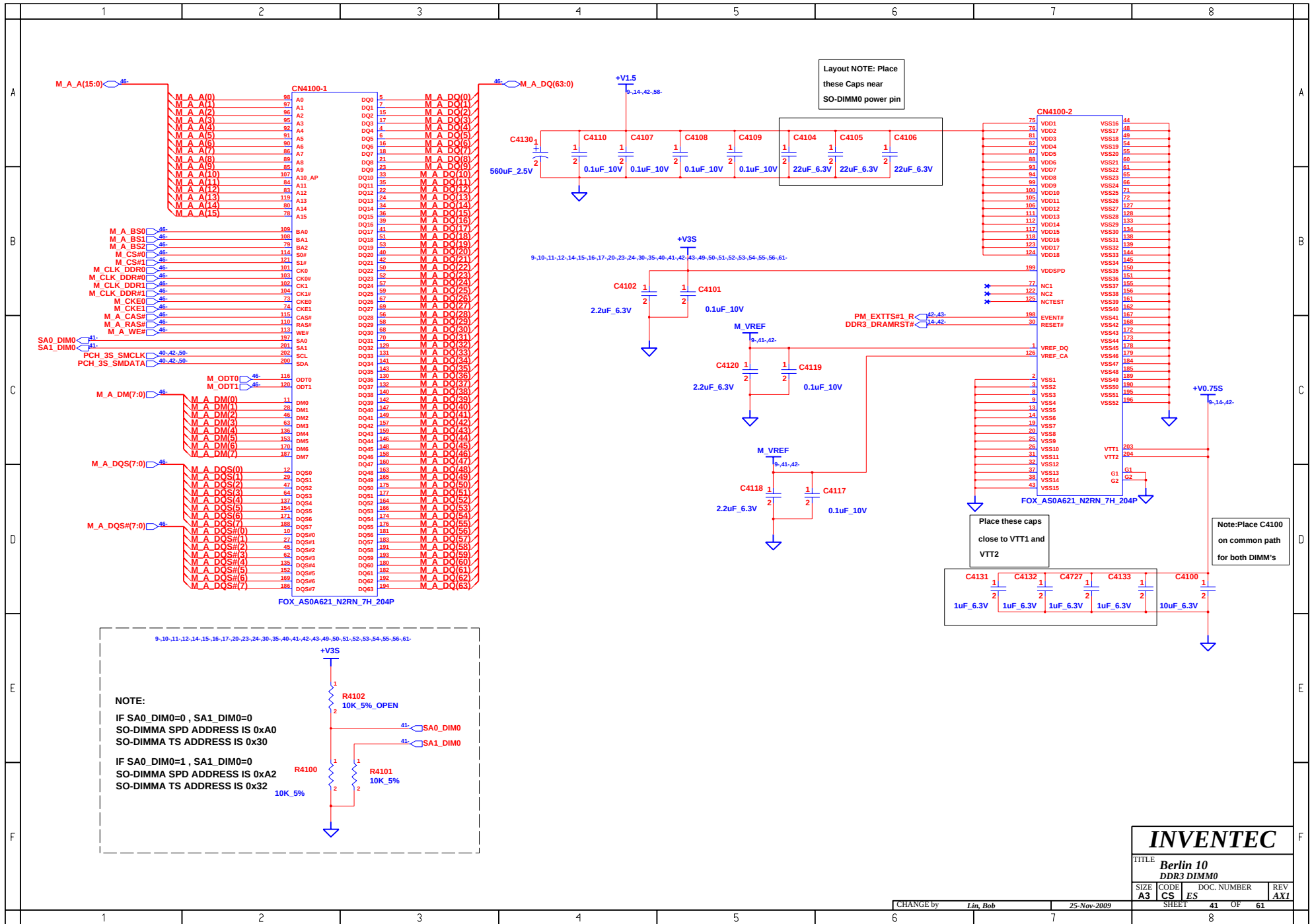
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Berlin 10			
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1

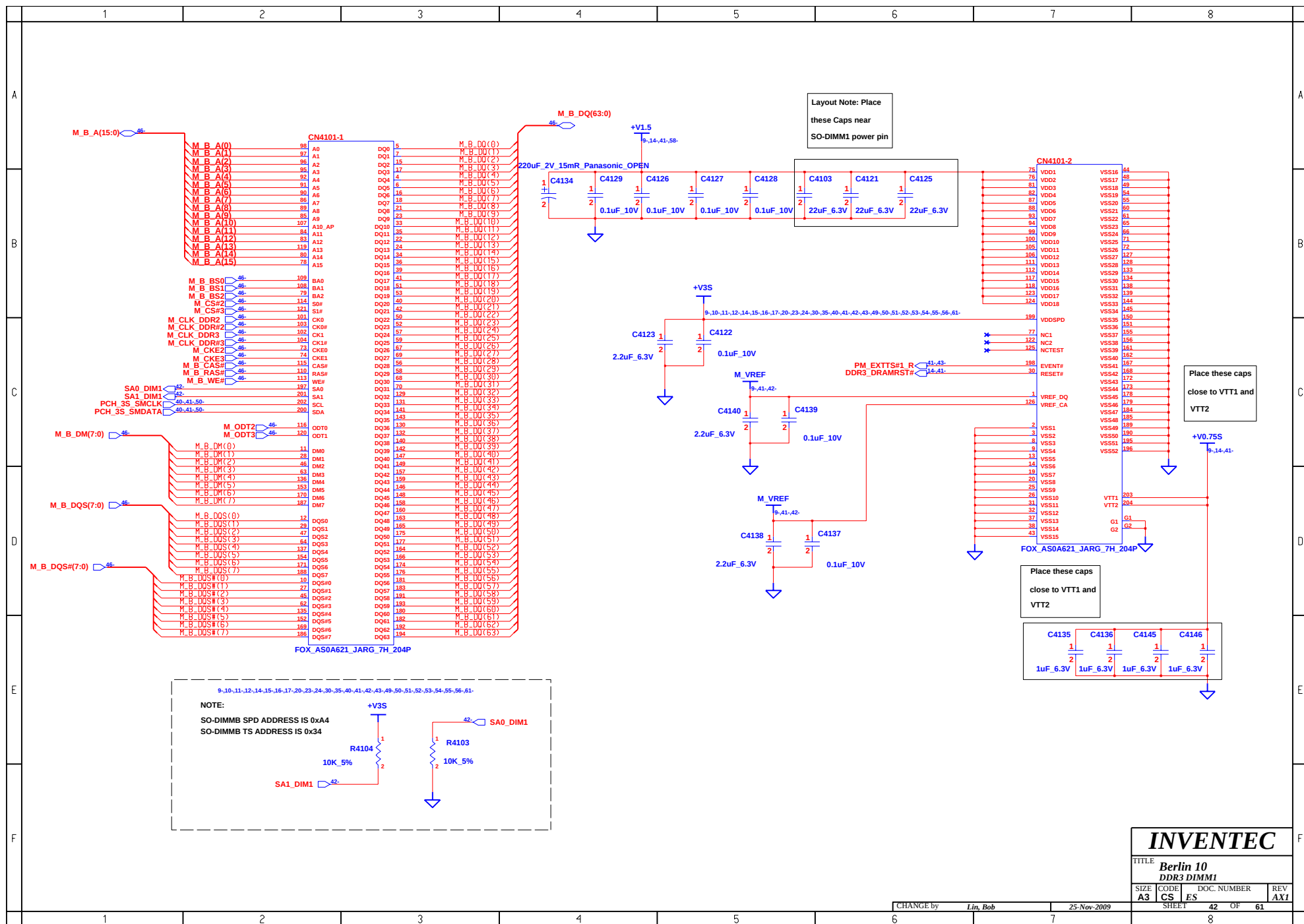


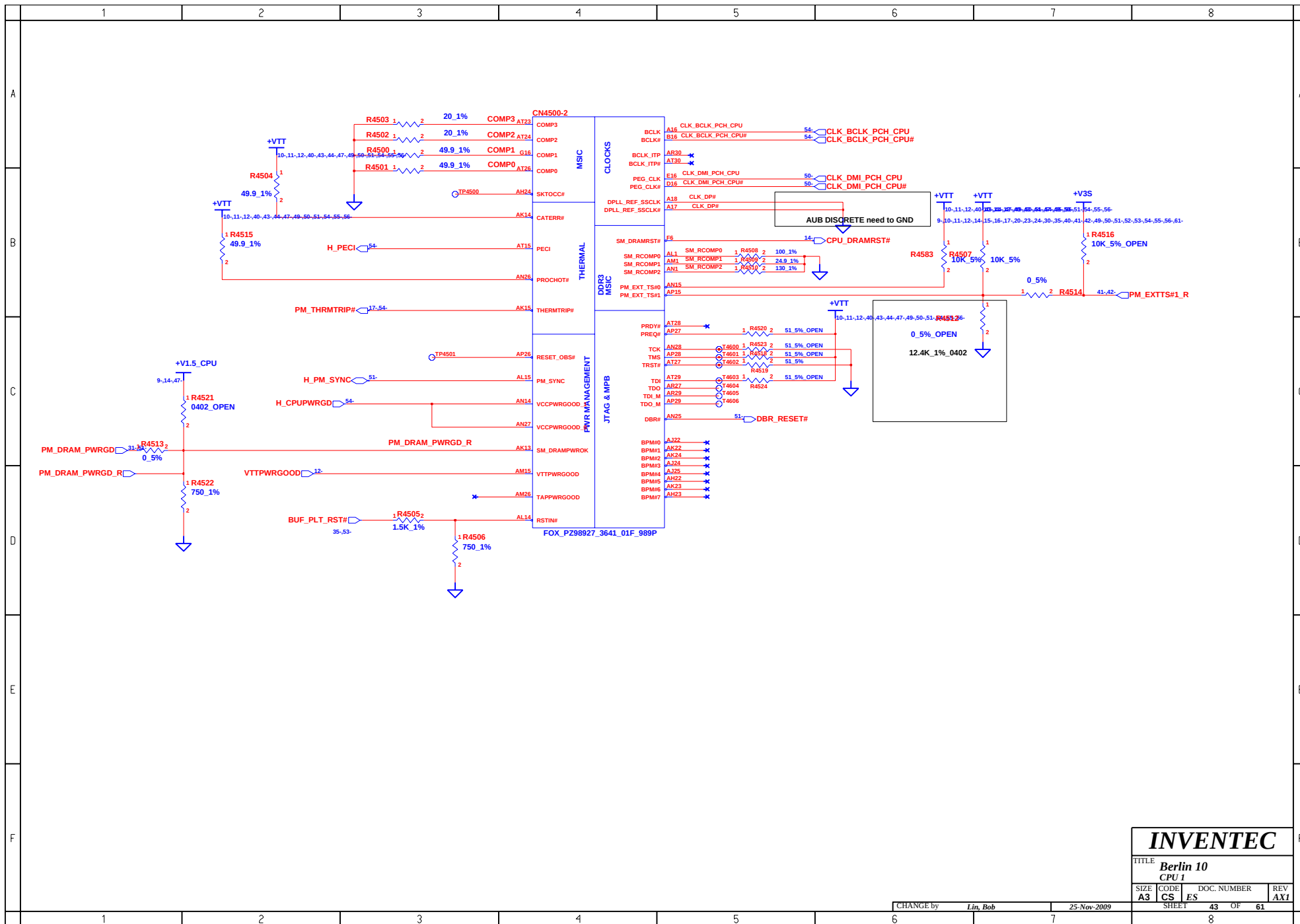


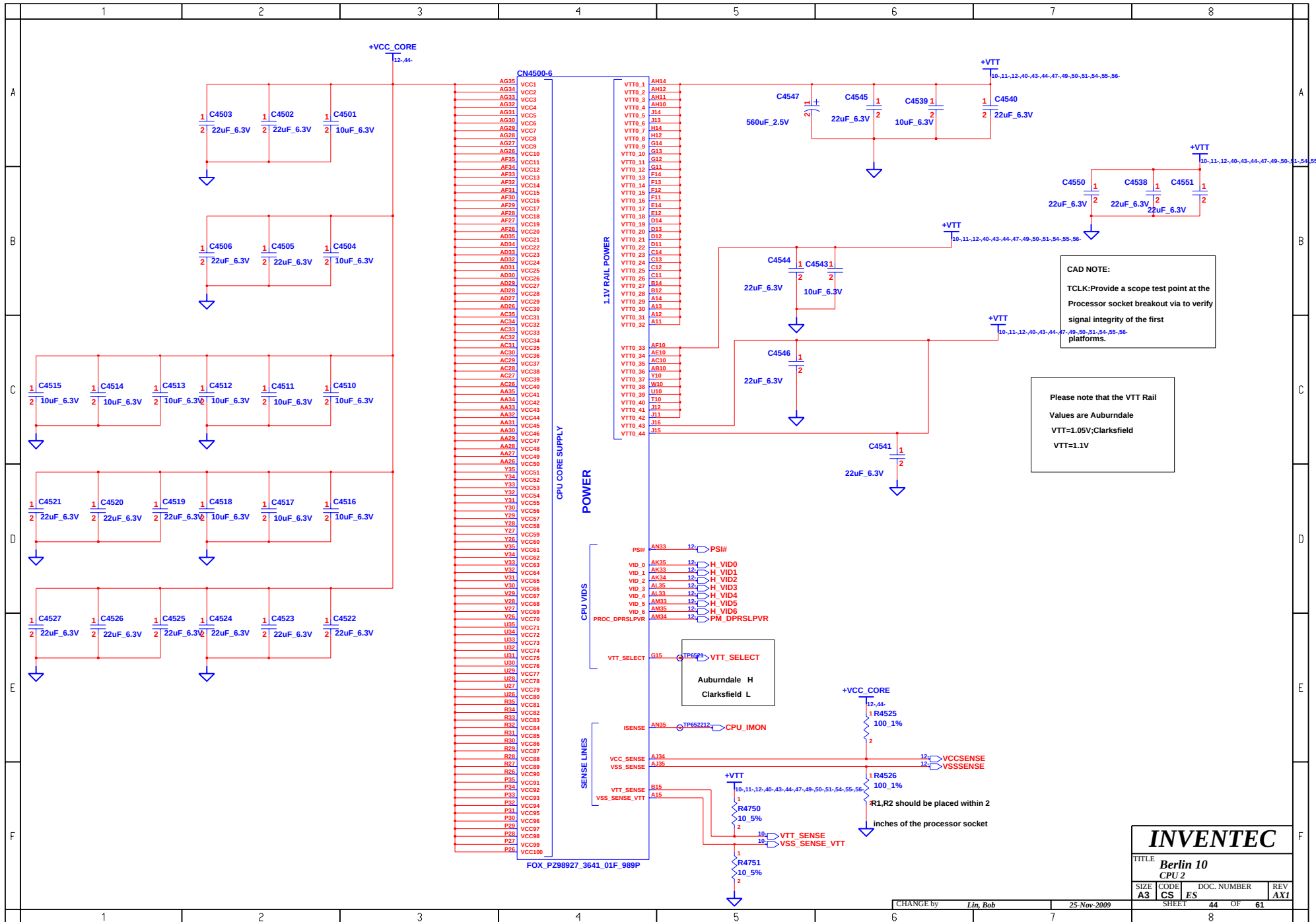
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Berlin 10			
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A3	CS	ES	AX1
SHEET		40 OF	61
8			

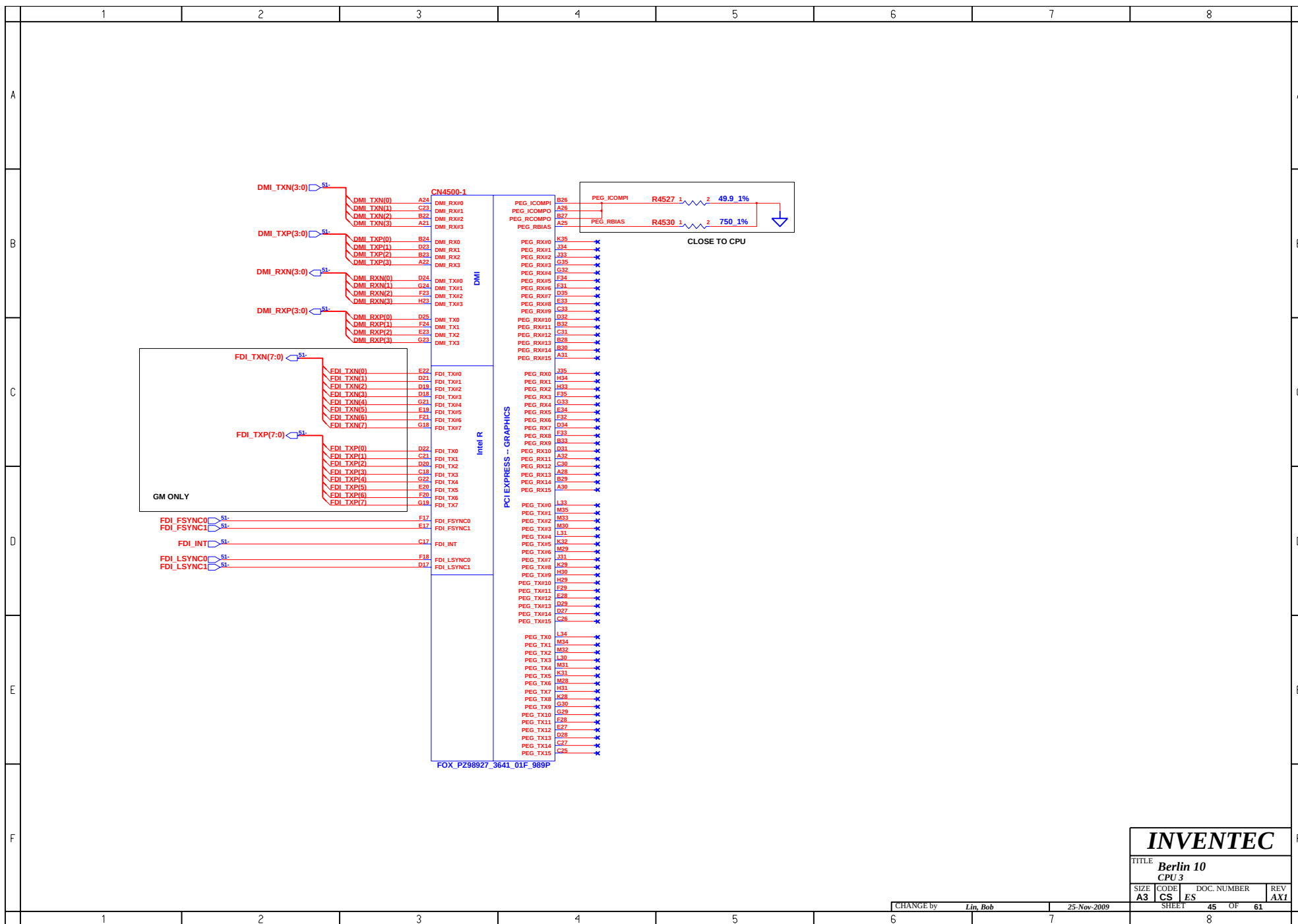
CHANGE by Lin, Bob 25-Nov-2009







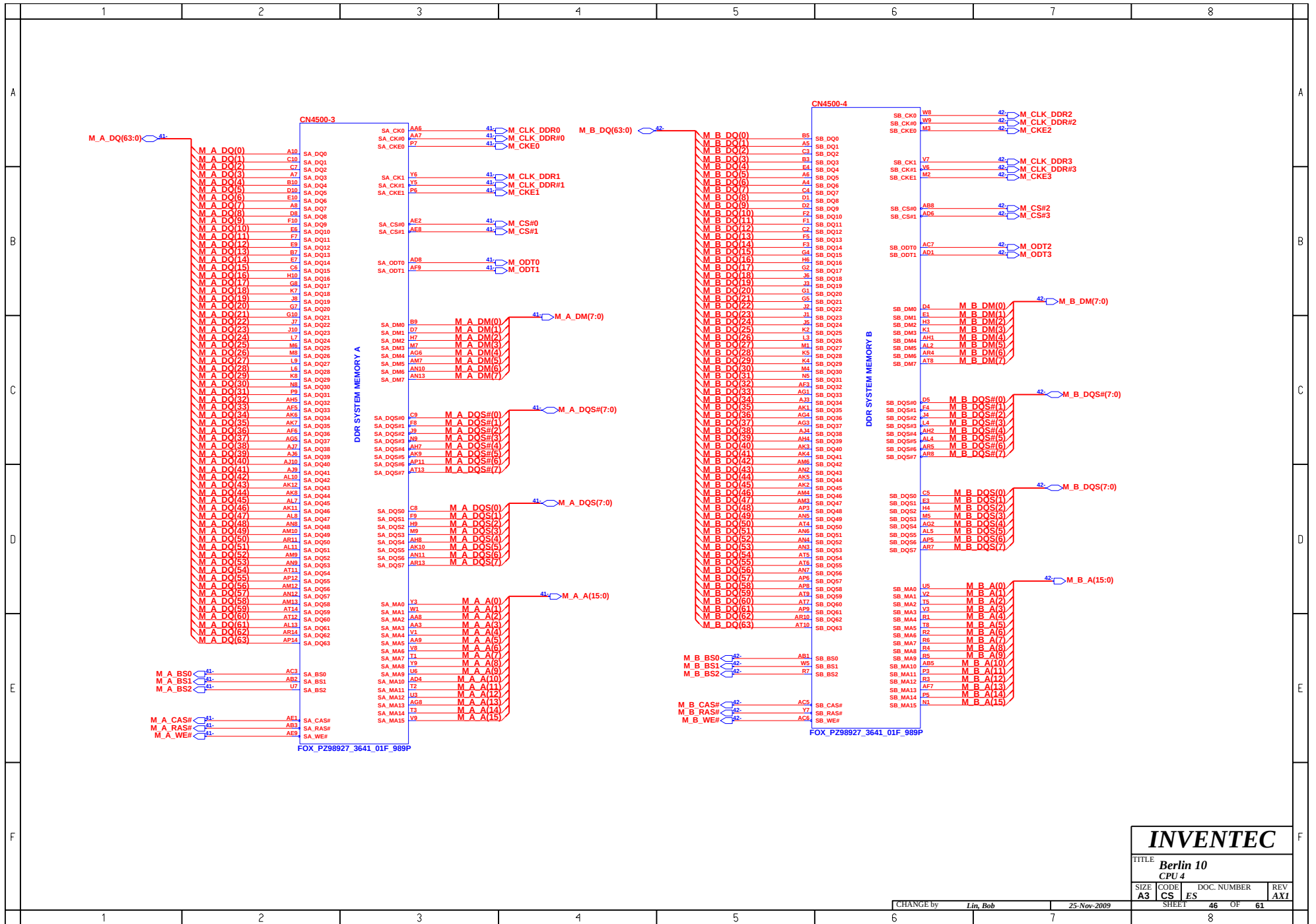




INVENTEC

TITLE			
Berlin 10			
CPU 3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		45 OF	61

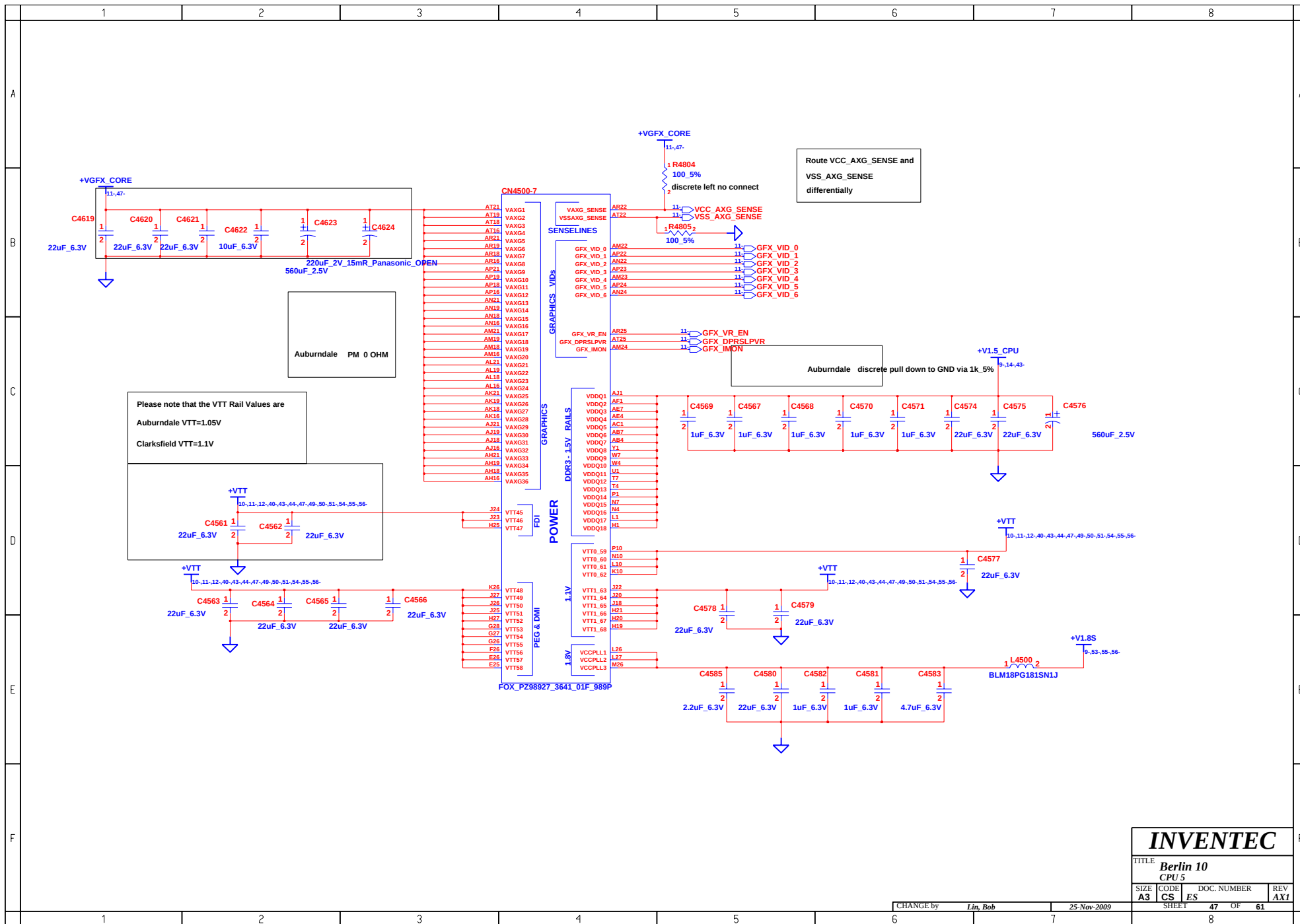
CHANGE by Lin, Bob 25-Nov-2009



INVENTEC

TITLE				
Berlin 10				
CPU 4				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	ES	46	AX1
SHEET				

CHANGE by Lin, Bob 25-Nov-2009

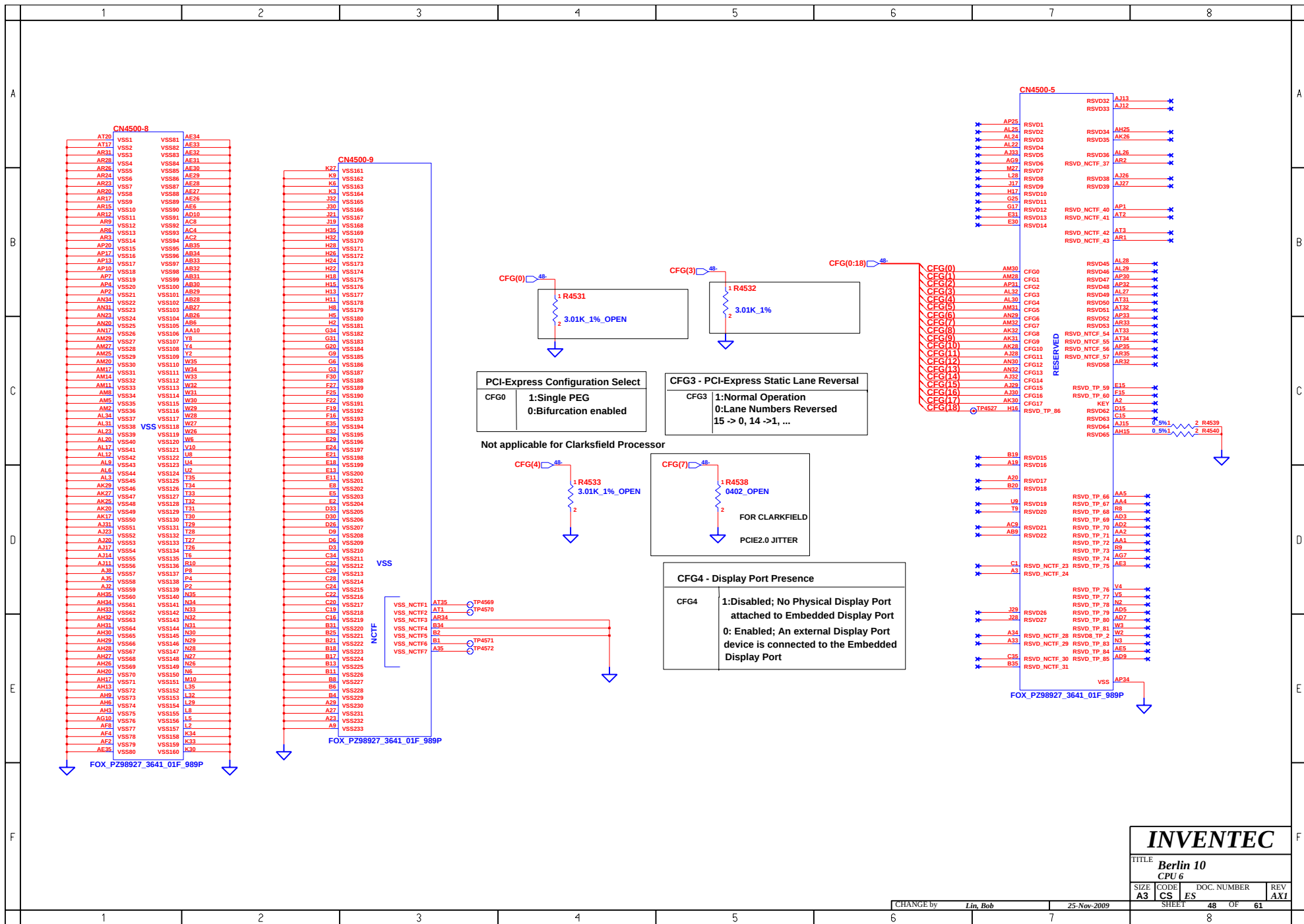


INVENTEC

TITLE			
Berlin 10			
CPU 5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1
SHEET		47 OF	61

CHANGE by Lin, Bob 25-Nov-2009

8

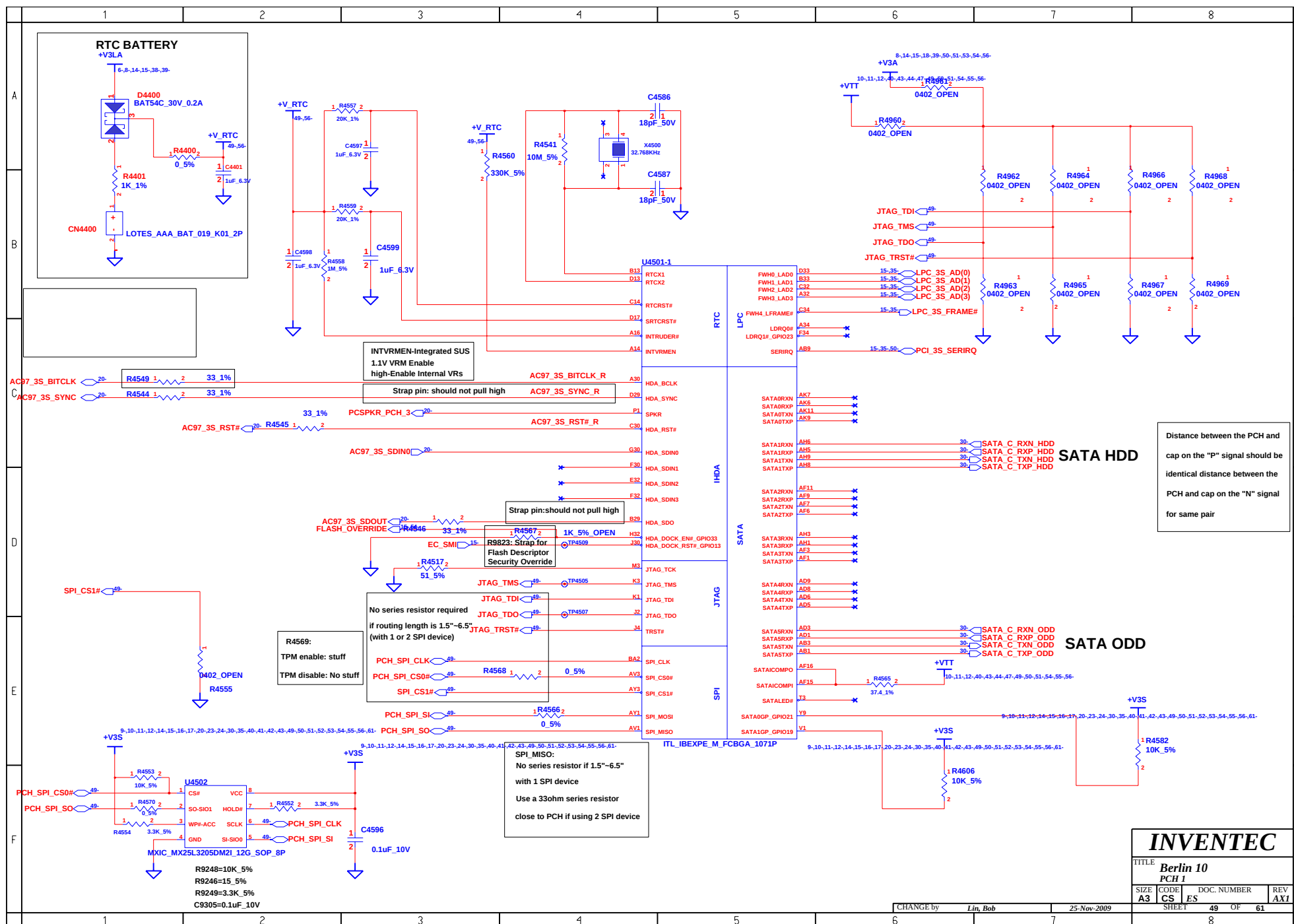


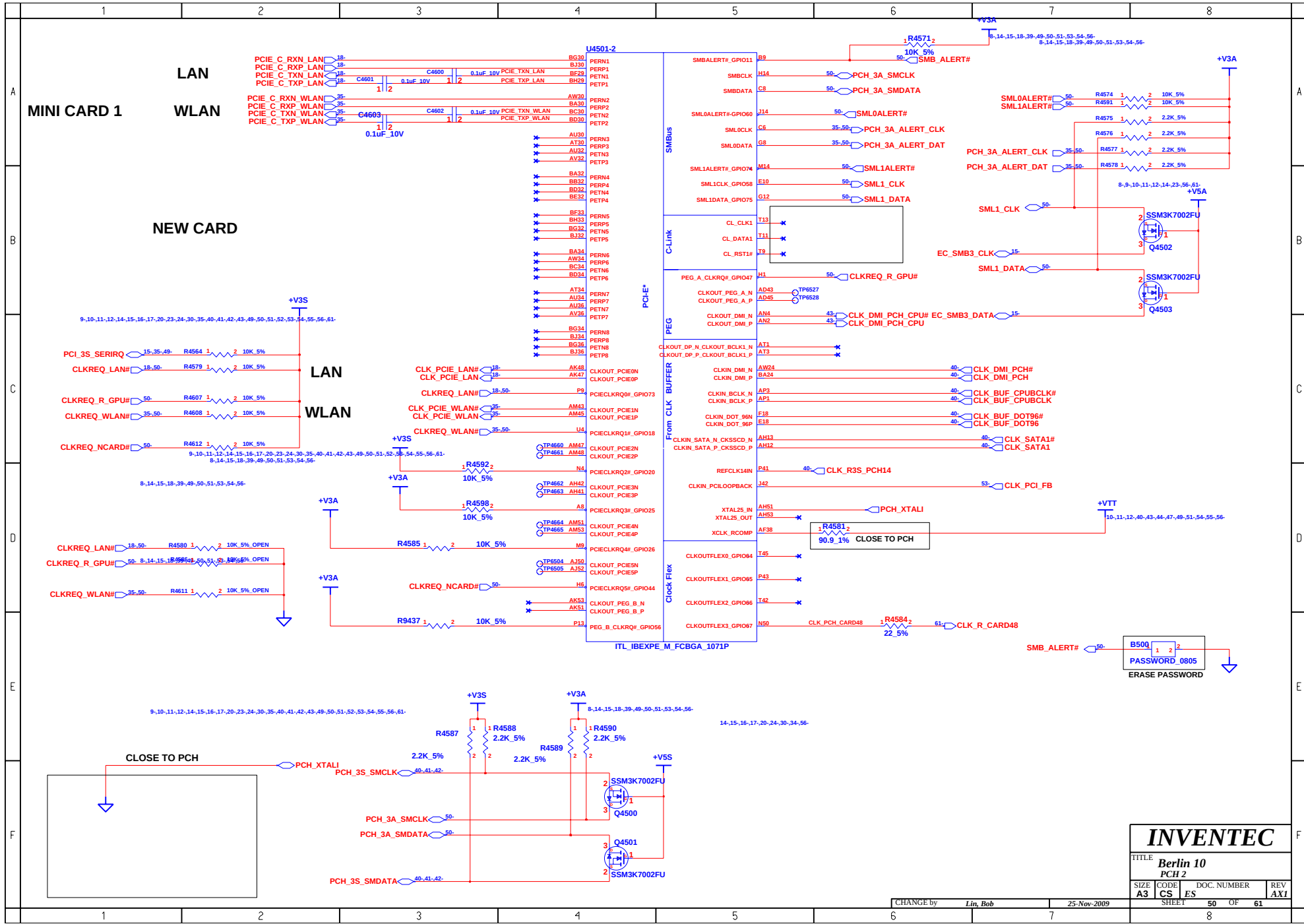
INVENTEC

TITLE				
Berlin 10				
CPU 6				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	ES	AXI	

CHANGE by Lin, Bob 25-Nov-2009

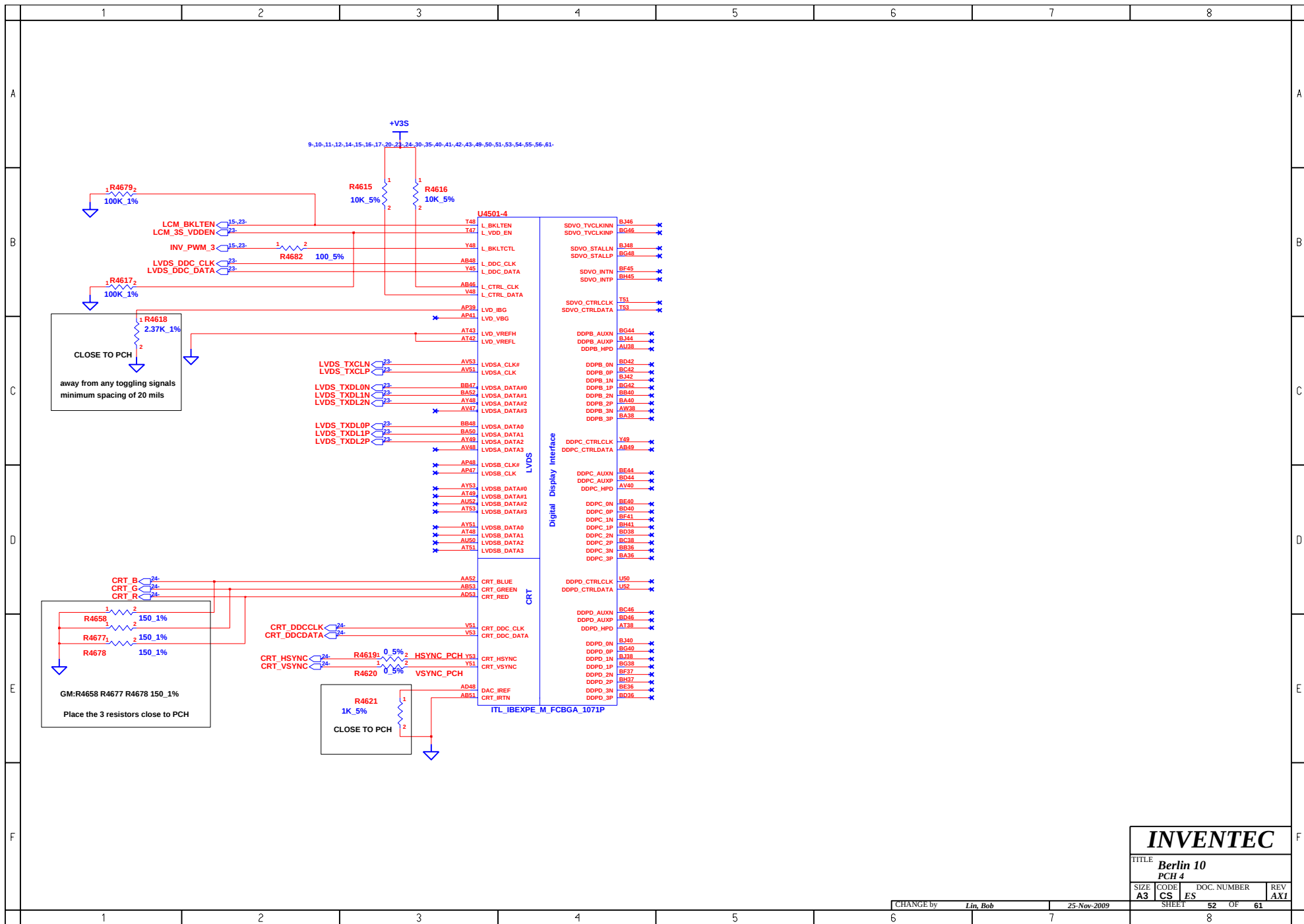
SHEET 48 OF 61





INVENTEC				
TITLE Berlin 10 PCH 2				
SIZE A3	CODE CS	DOC. NUMBER ES	REV AX1	
SHEET		50	OF	61

CHANGE by Lin, Bob 25-Nov-2009



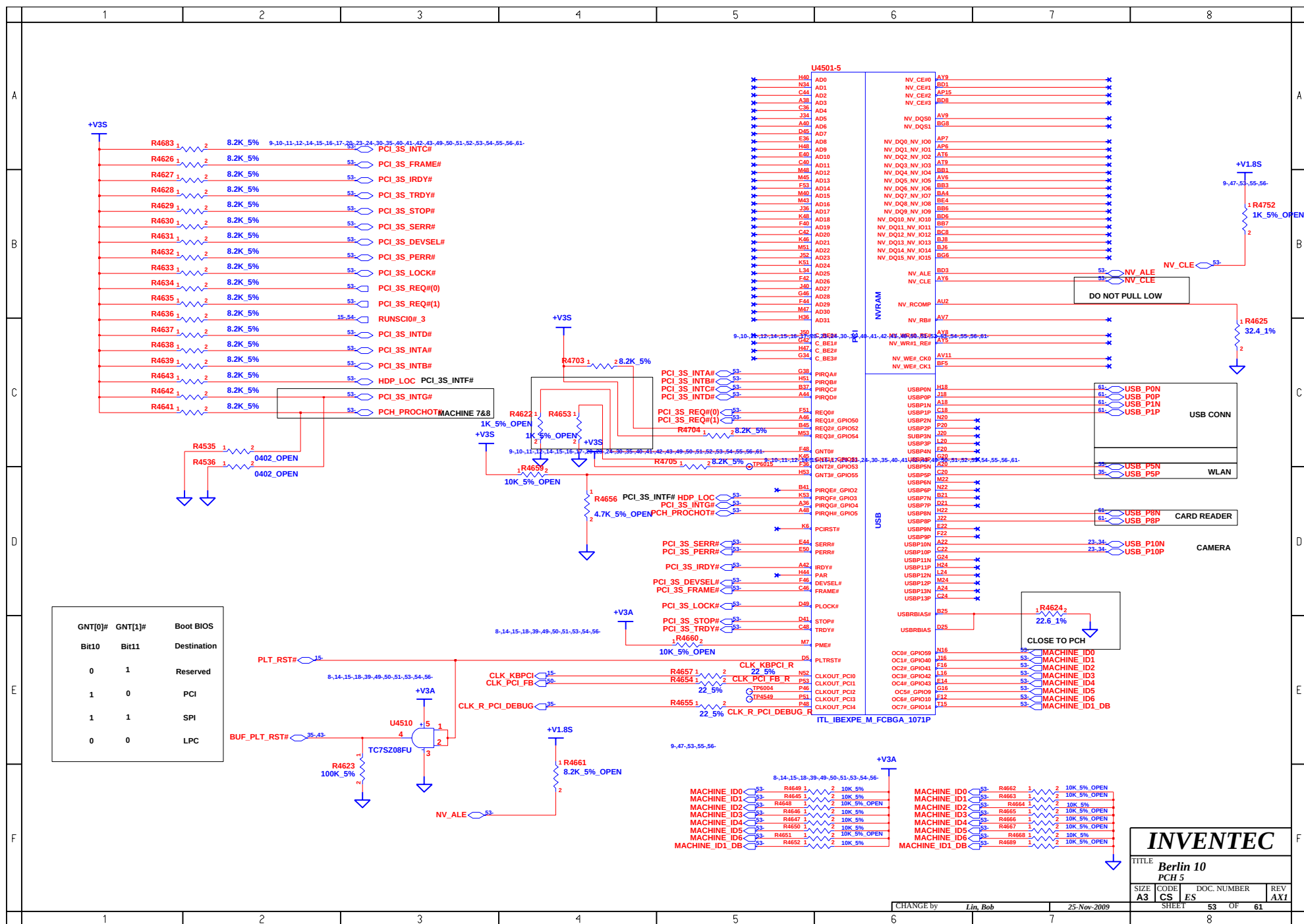
INVENTEC

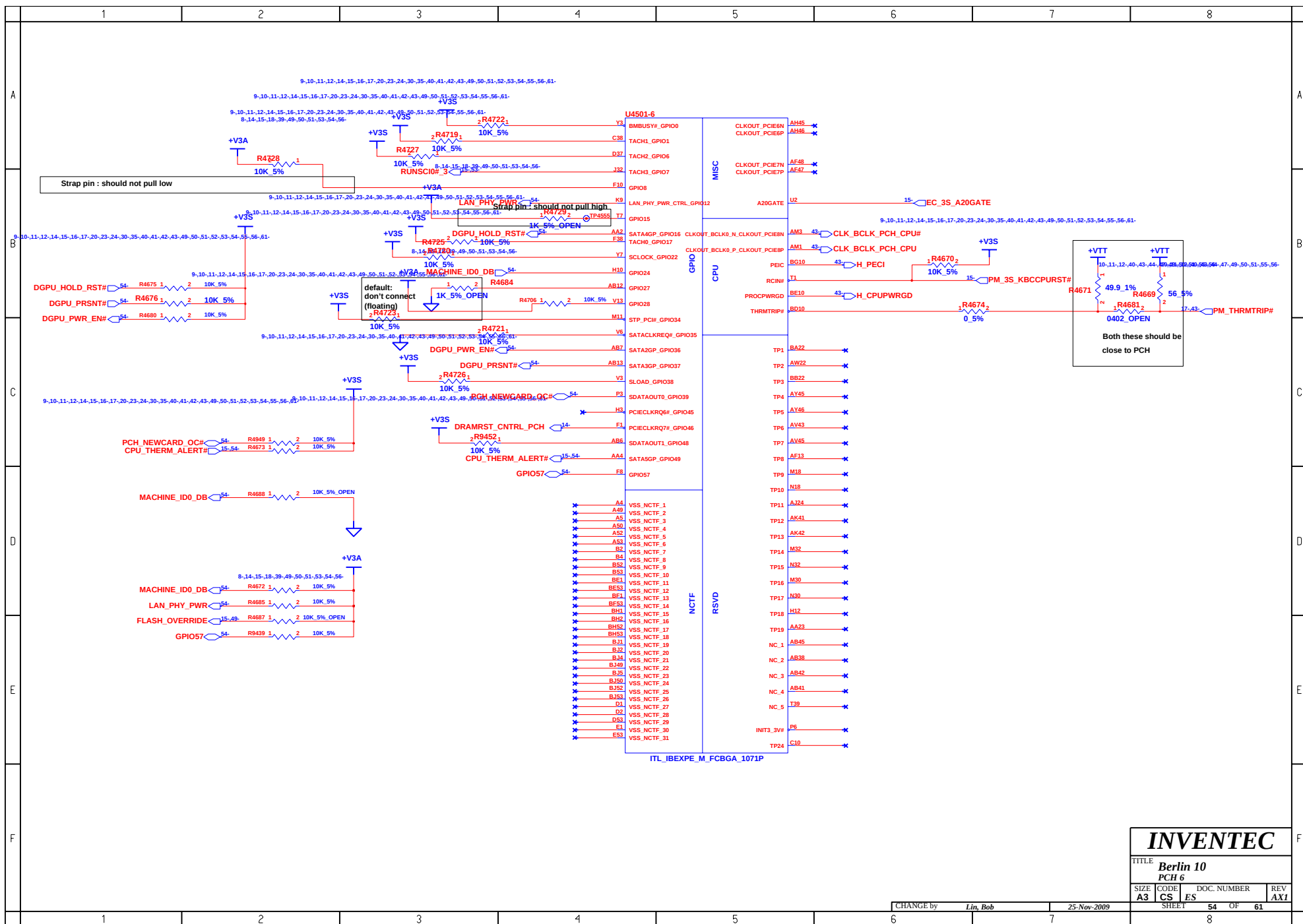
TITLE
Berlin 10
PCH 4

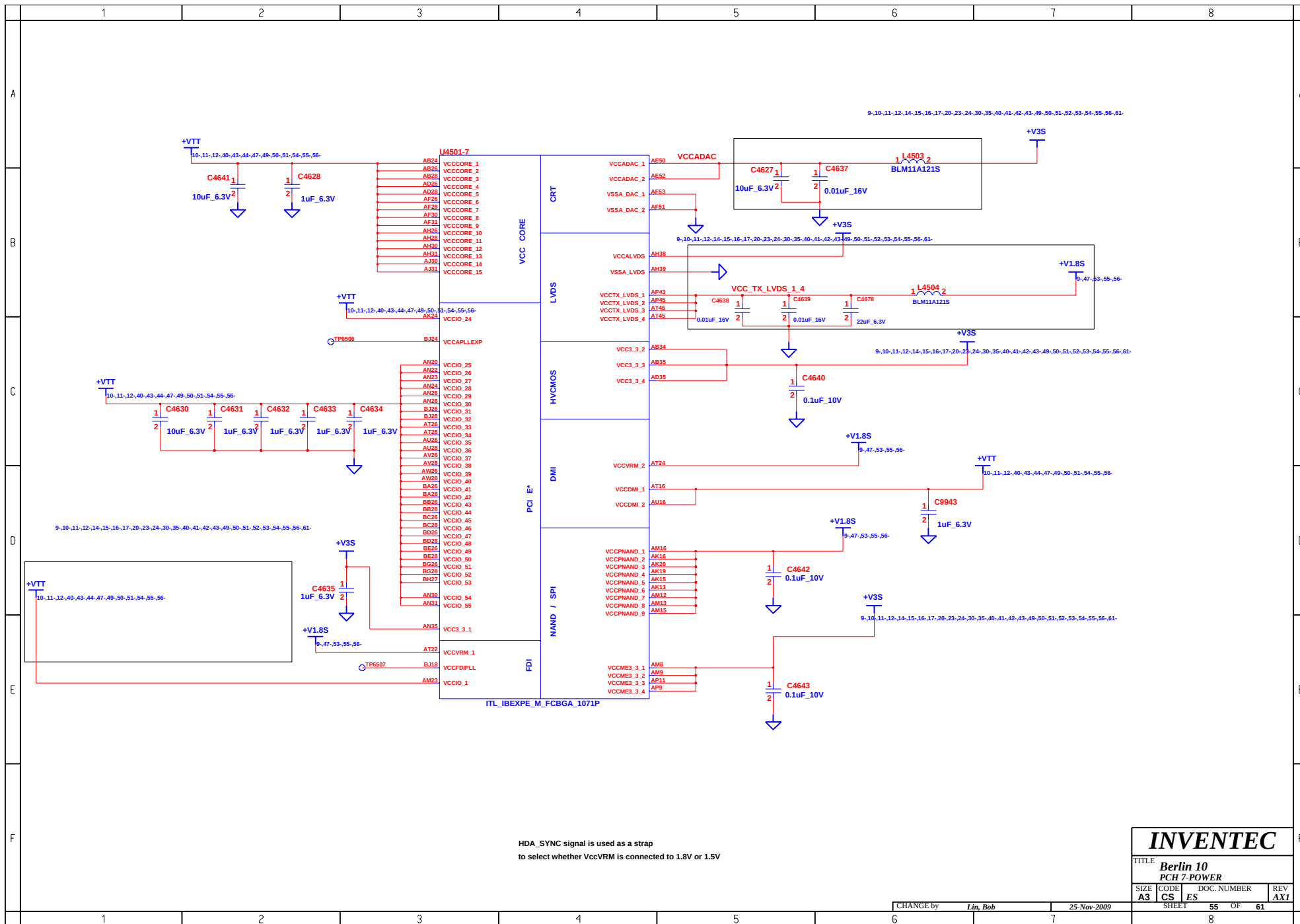
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AX1

CHANGE by Lin, Bob 25-Nov-2009

SHEET 52 OF 61





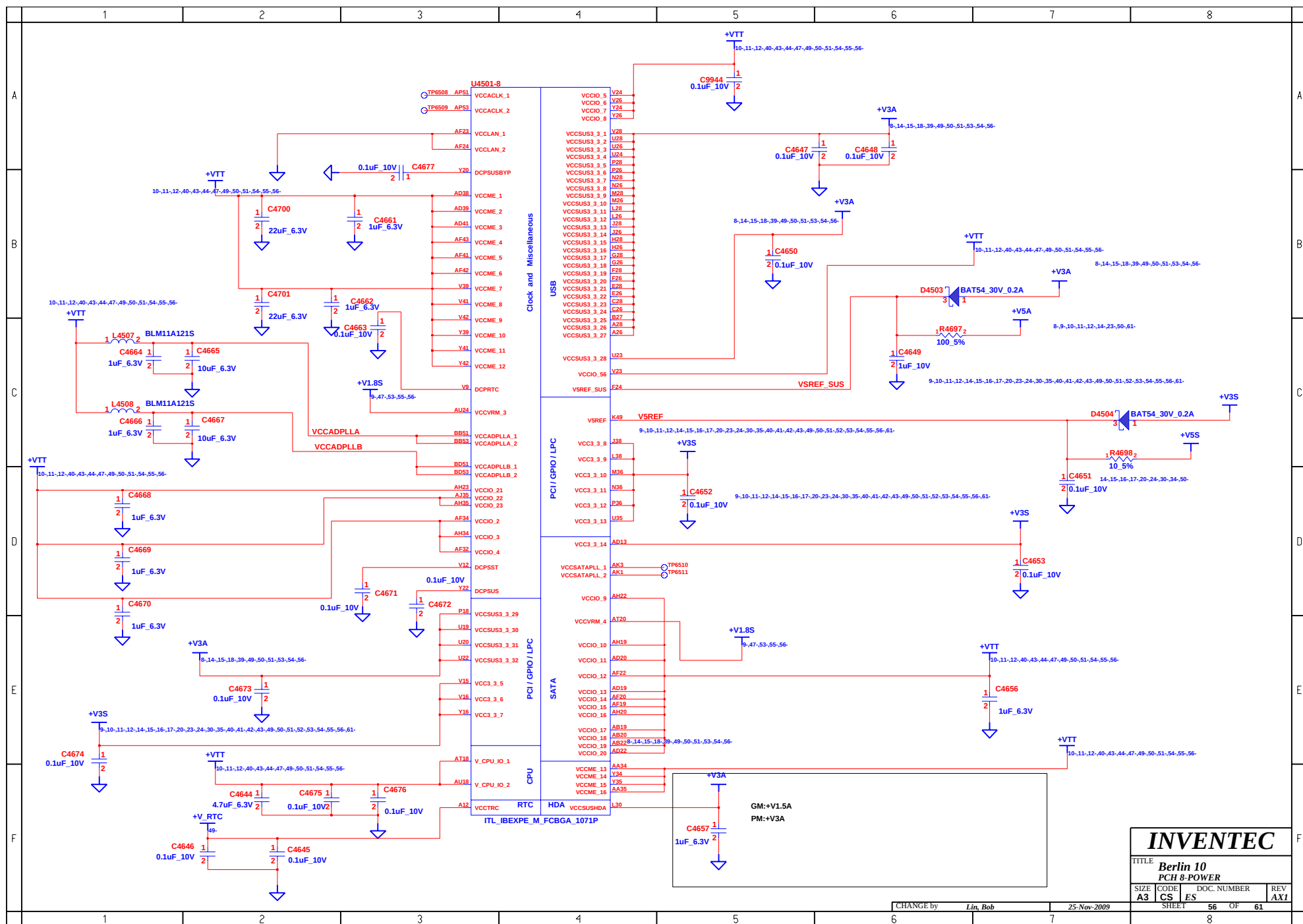


INVENTEC

TITLE Berlin 10 PCH 7-POWER			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
SHEET		55 OF	61

CHANGE by *Lin, Bob* 25-Nov-2009

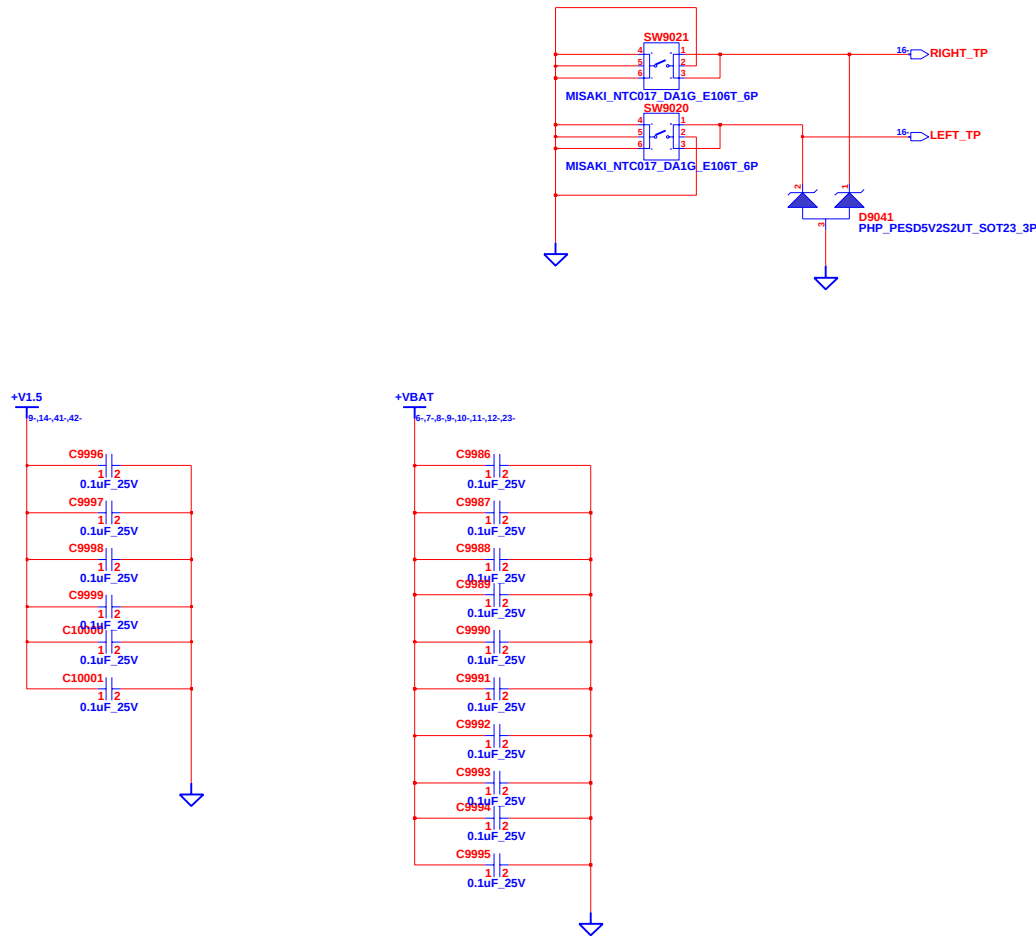
8



[illegible]

PICK BUTTON and EMI

(For - Touchpad Module, Touchpad Switch)



INVENTEC

TITLE			
Berlin 10			
Hot key board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		58 OF	61

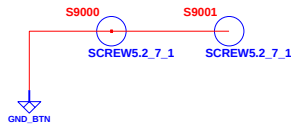
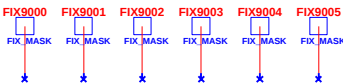
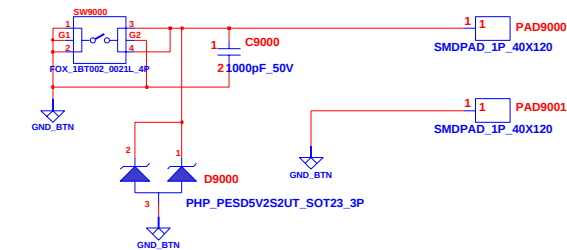
CHANGE by Lin, Bob 7-Jan-2010

8

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10 <i>Touch pad</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AX1
CHANGE by <i>Lin, Bob</i>		5-Jan-2010	
SHEET		59	OF 61

POWER BUTTON



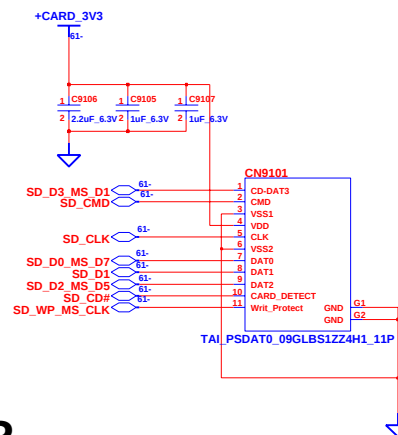
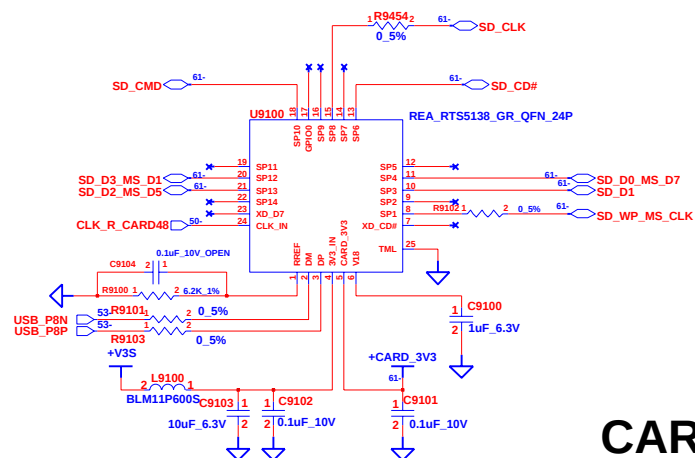
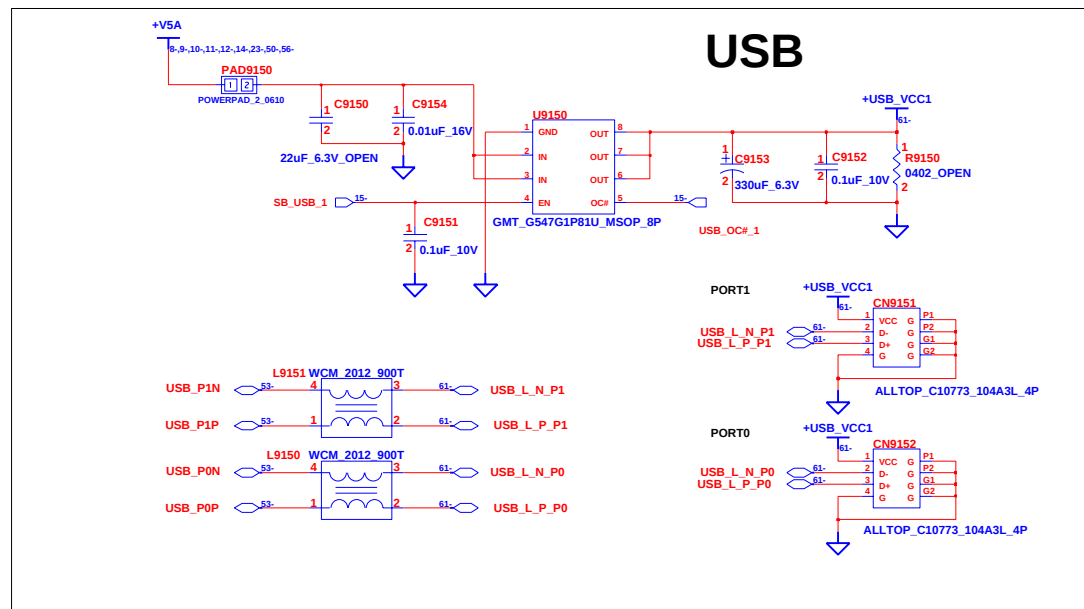
EMI

INVENTEC

TITLE			
Berlin 10			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		60 OF	61

CHANGE by Lin, Bob 17-Mar-2010

CARD READER & USB



CARD READER

INVENTEC

TITLE
Berlin 10

SIZE CODE DOC. NUMBER REV
A3 CS ES

CHANGE by *Lin, Bob* 25-Nov-2009

SHEET 61 OF 61

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