

# BR10ML

## MP Build(A01)

2011.03.14

DRAWER	EE	DATE	POWER	DATE	<b>INVENTEC</b>		
DESIGN					TITLE		
CHECK					<b>BR10ML</b>		
RESPONSIBLE							
SIZE =				VER :	SIZE	CODE	DOC. NUMBER
FILE NAME :					<b>A3</b>	<b>CS</b>	
PN					SHEET	1	OF 52

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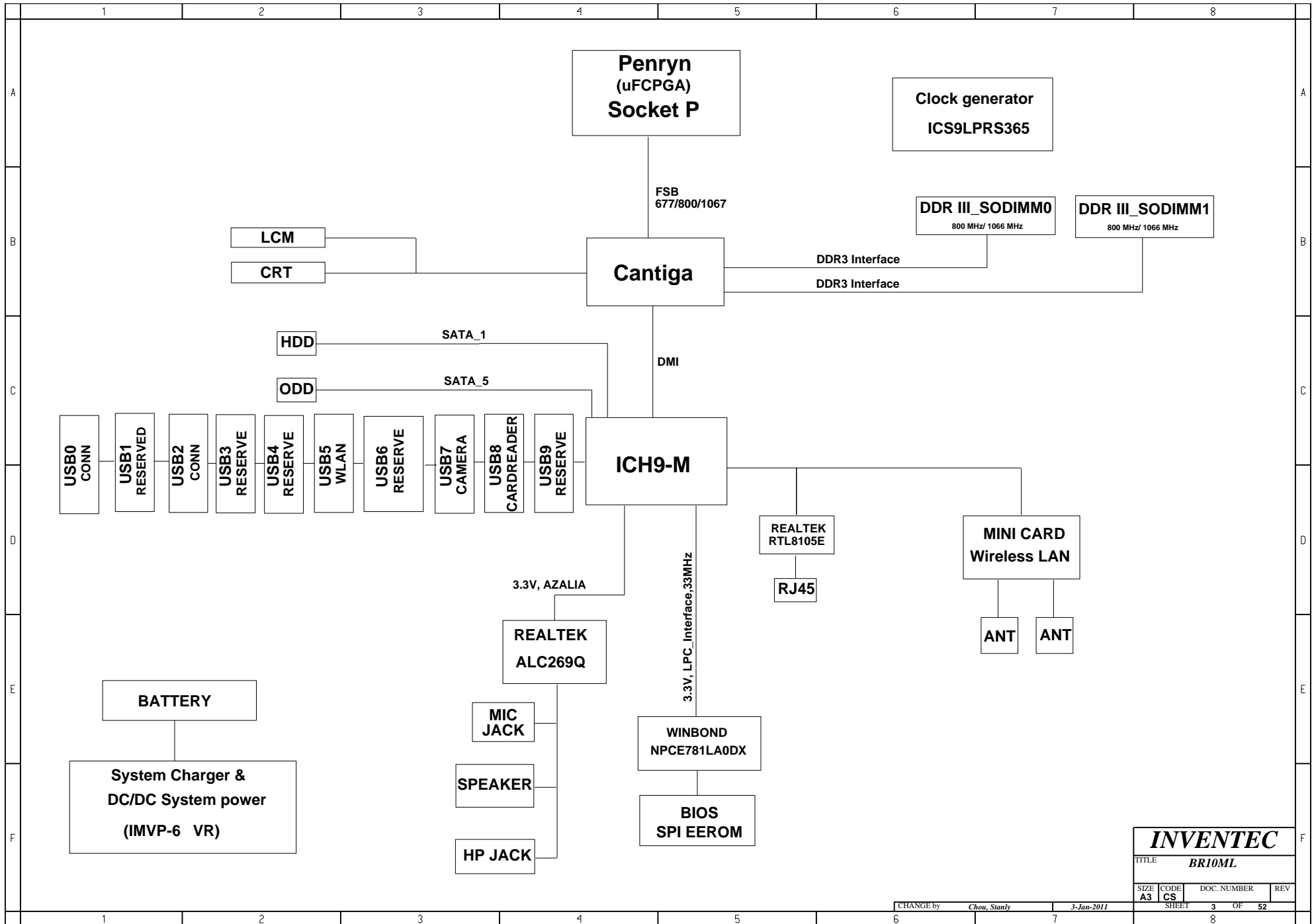
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3.BLOCK DIAGRAM	33.ICH9-3	
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13.CLOCK GENERATOR	36.SATA HDD CONN	
14.PENRYN-1	37.ODD CONN	
15.PENRYN-2	38.USB CONN	
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17.PENRYN-4	40.KBC	
18.FAN & THERMAL CONTROLLER	41.K/B & TP/B CONN	
19.CANTIGA-1	42.Audio Codec	
20.CANTIGA-2	43.Audio AMP/MIC/Speaker	
21.CANTIGA-3	44.LAN CONTROLLER	
22.CANTIGA-4	45.RJ45 & TRANSFORMER	
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28.BLANK	51.EMI	
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30.LCM CONN		

**INVENTEC**

TITLE  
**BR10ML**

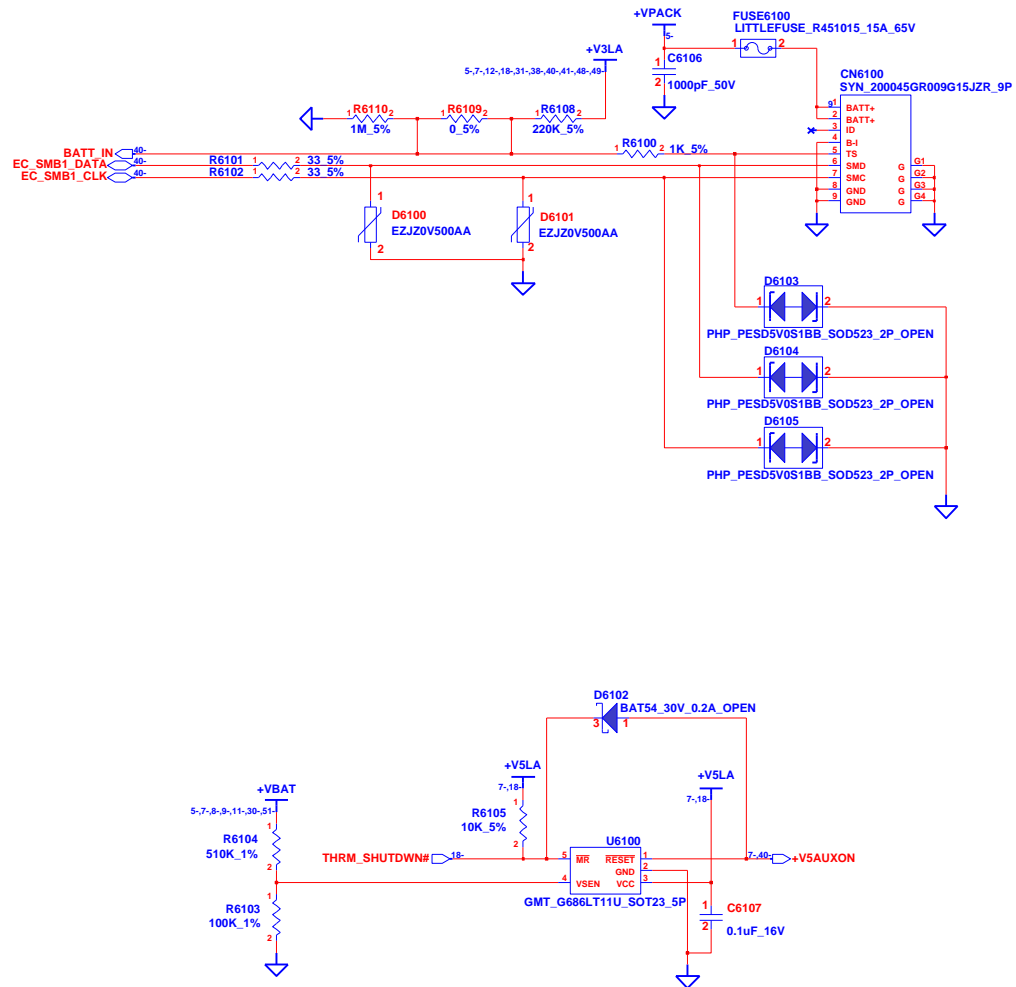
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CHANGE by *Chou, Stanley* 24-Dec-2010



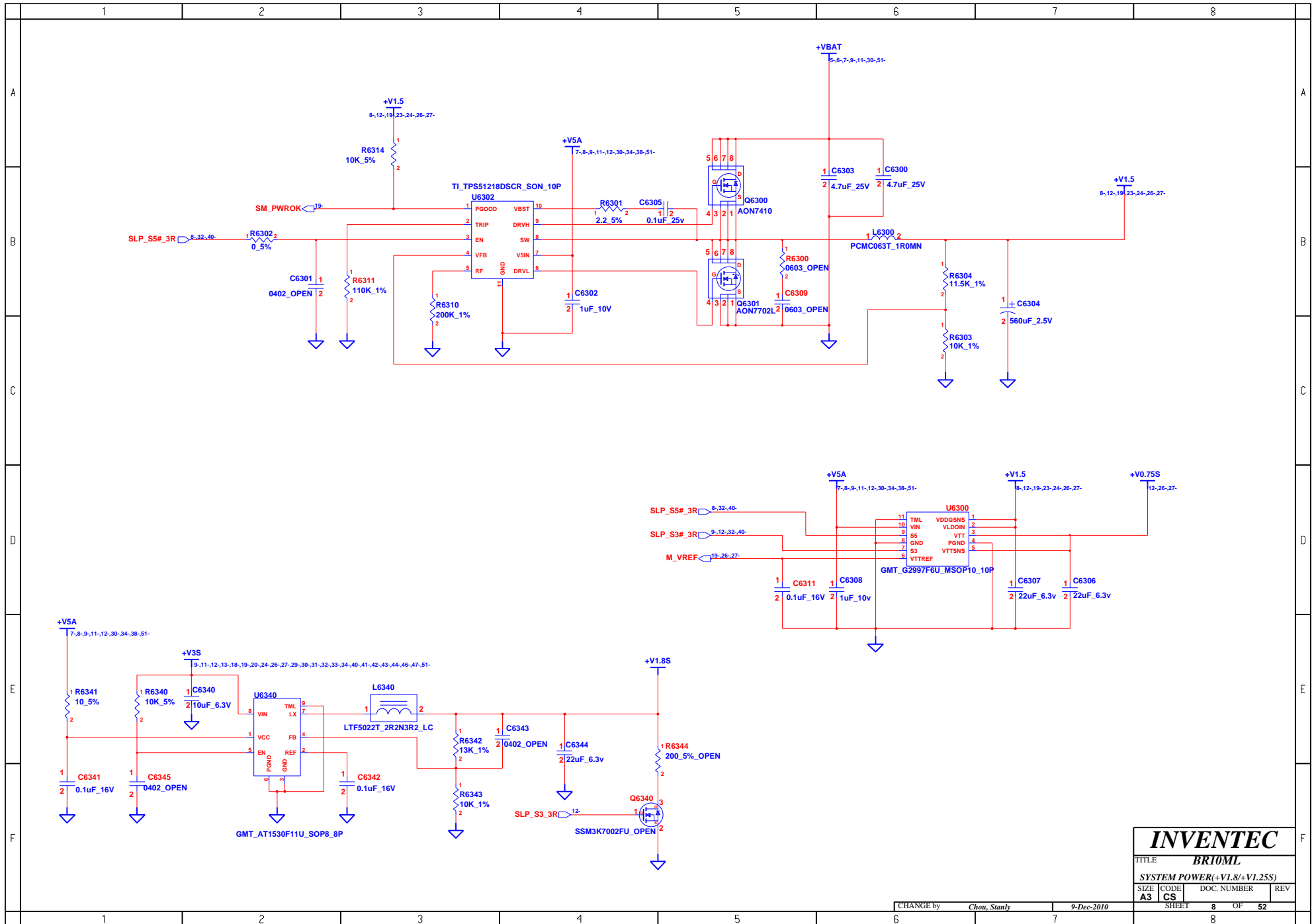




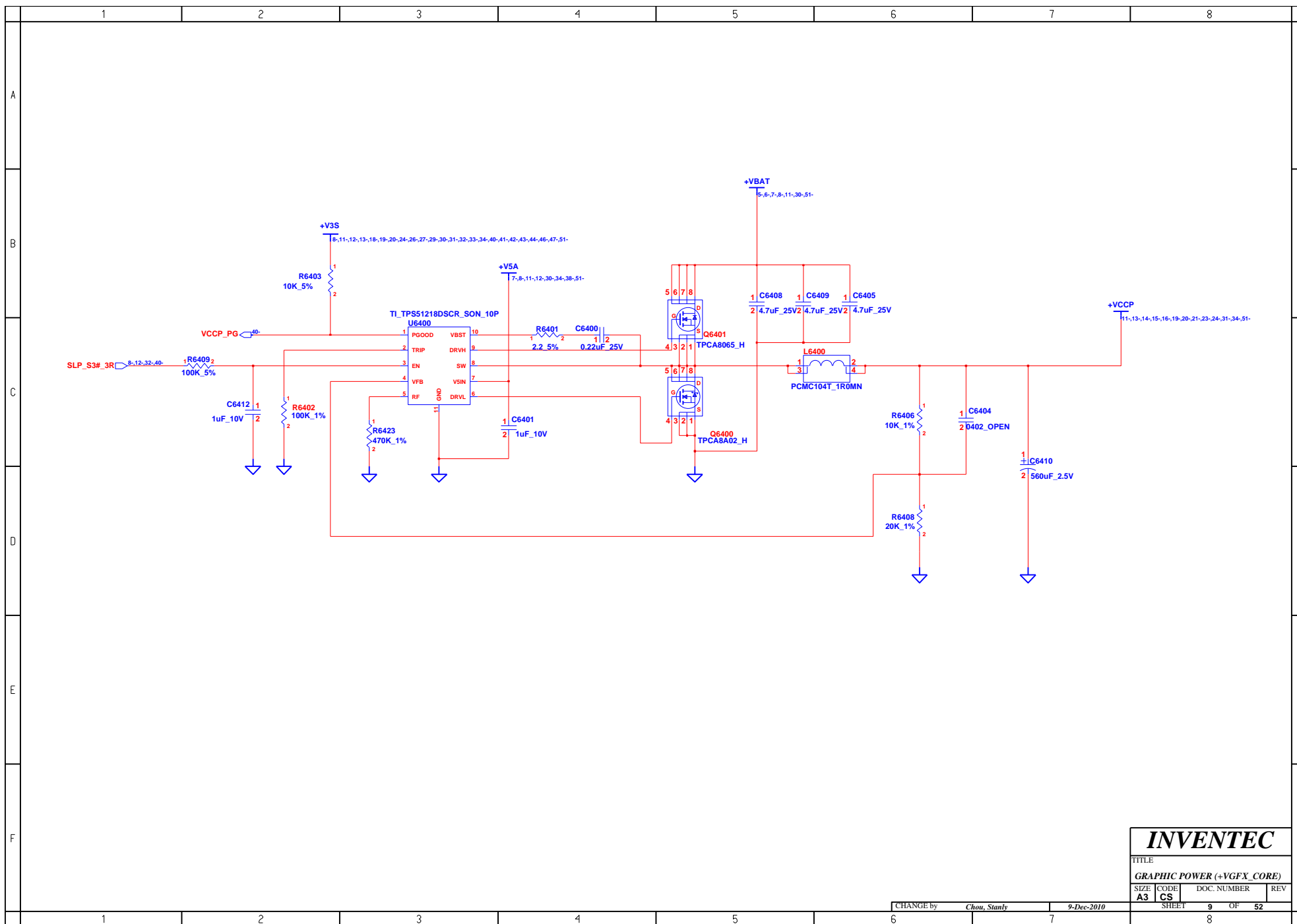


INVENTEC			
TITLE BR10ML SELECT & BATTERY CONN			
SIZE A3	CODE CS	DOC. NUMBER	REV
CHANGE by Chou, Stanley		9-Dec-2010	SHEET 6 OF 52







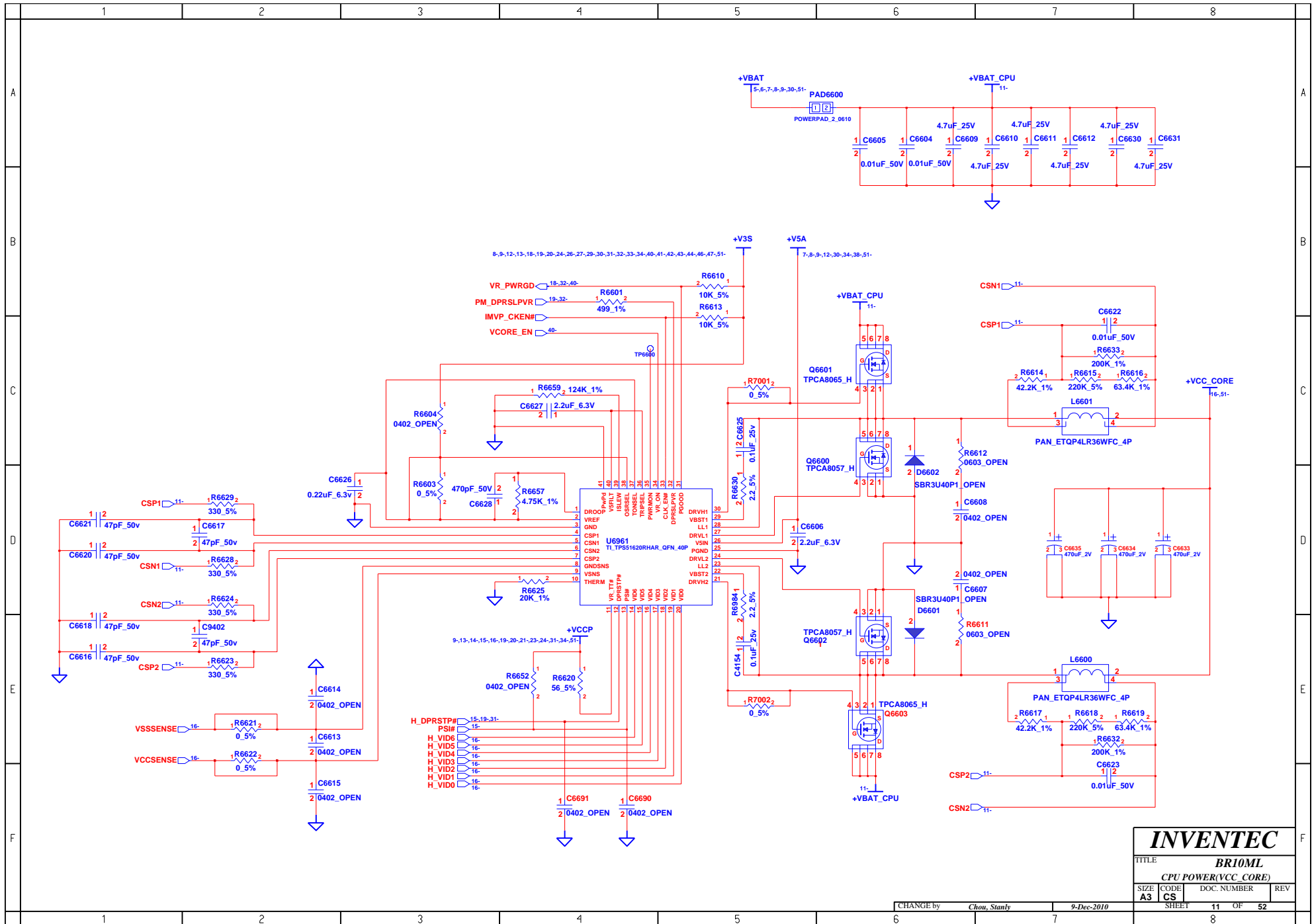


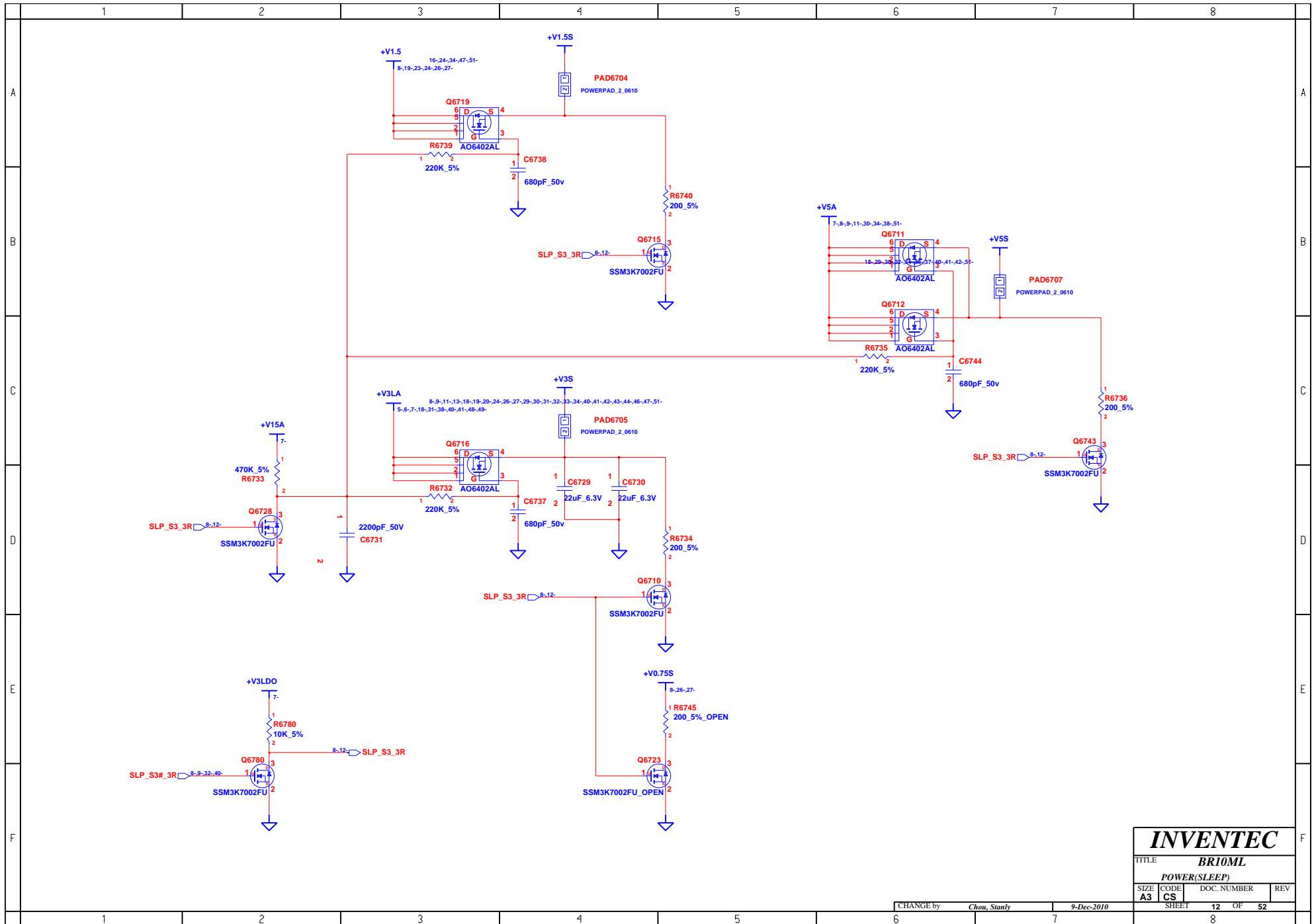
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TITLE			
GRAPHIC POWER (+VGF_X_CORE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
CHANGE by		9-Dec-2010	
Chou, Stanley			
SHEET		9	OF 52
		8	

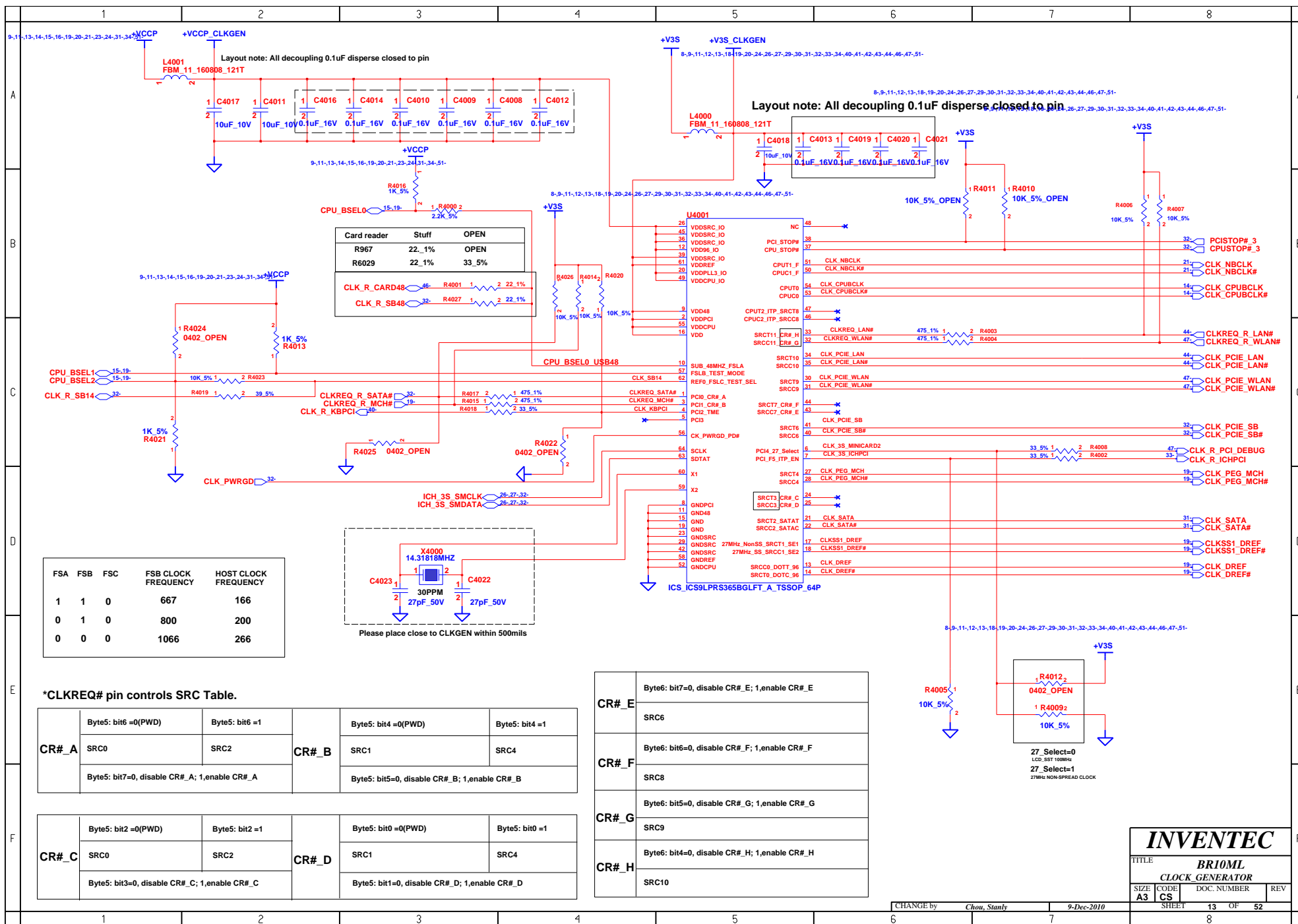
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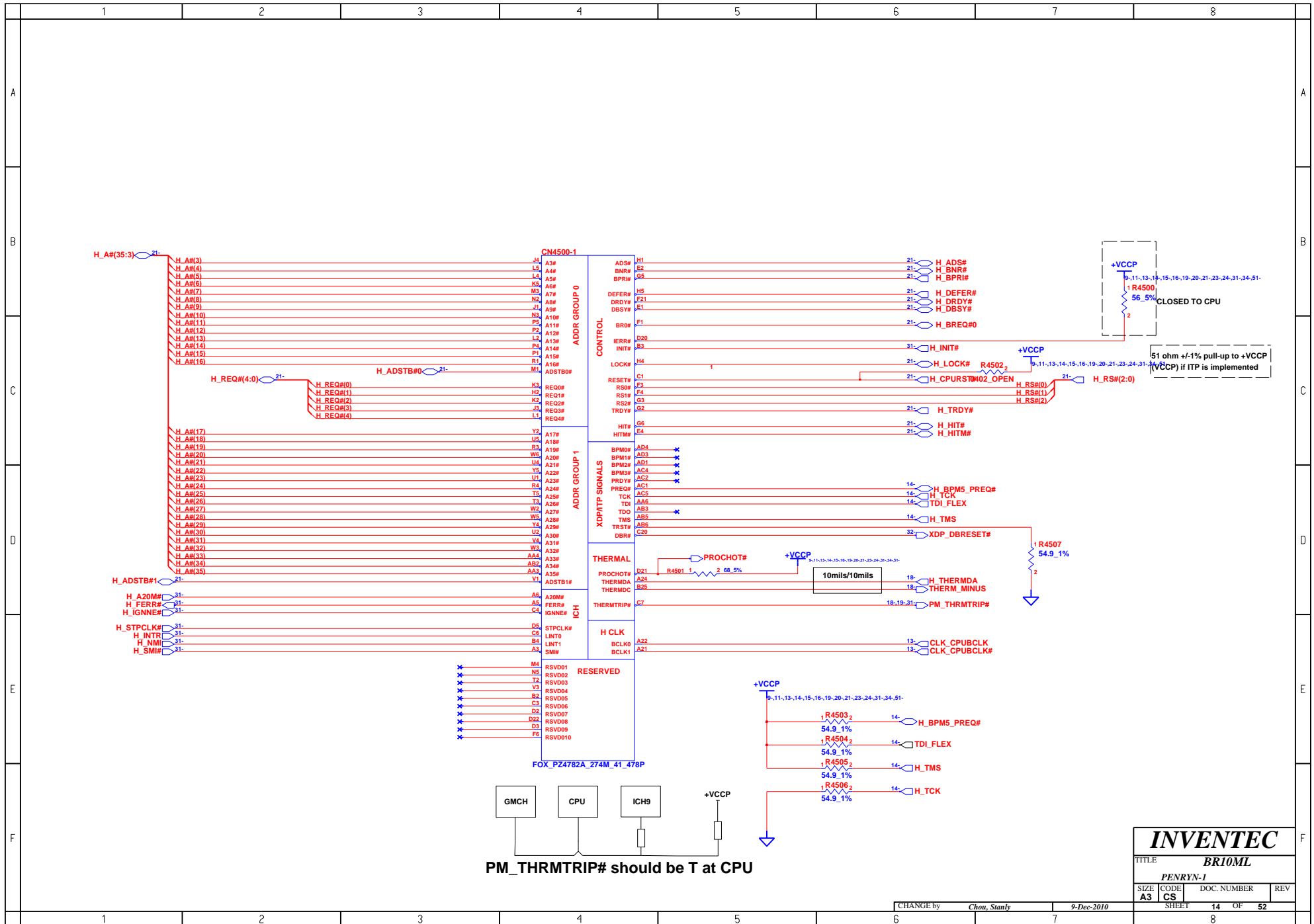
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SYSTEM POWER(+VCCP/+V1.5S)			
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SHEET <b>10</b> OF <b>52</b>			

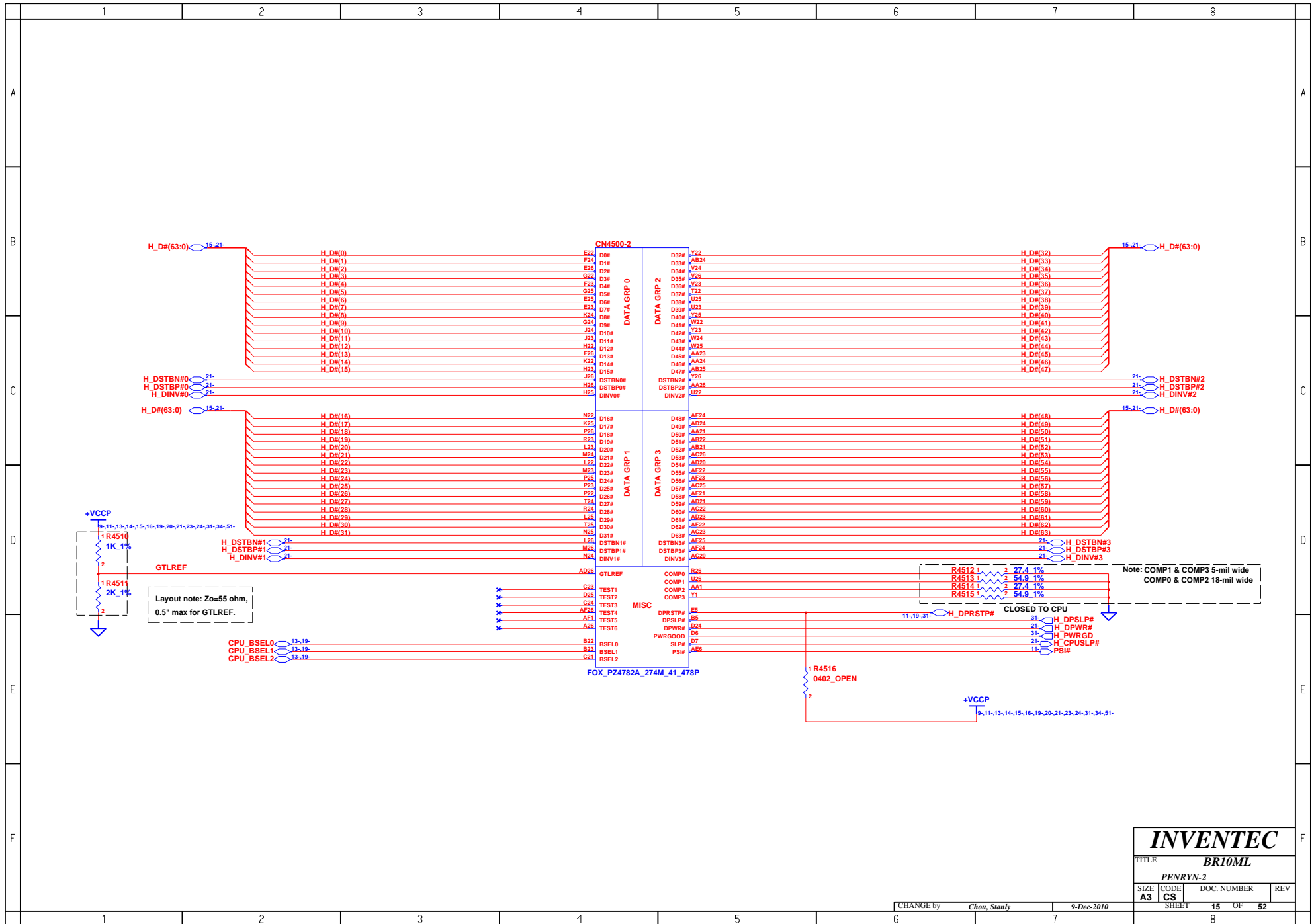
CHANGE by *Chou, Stanley* 9-Dec-2010

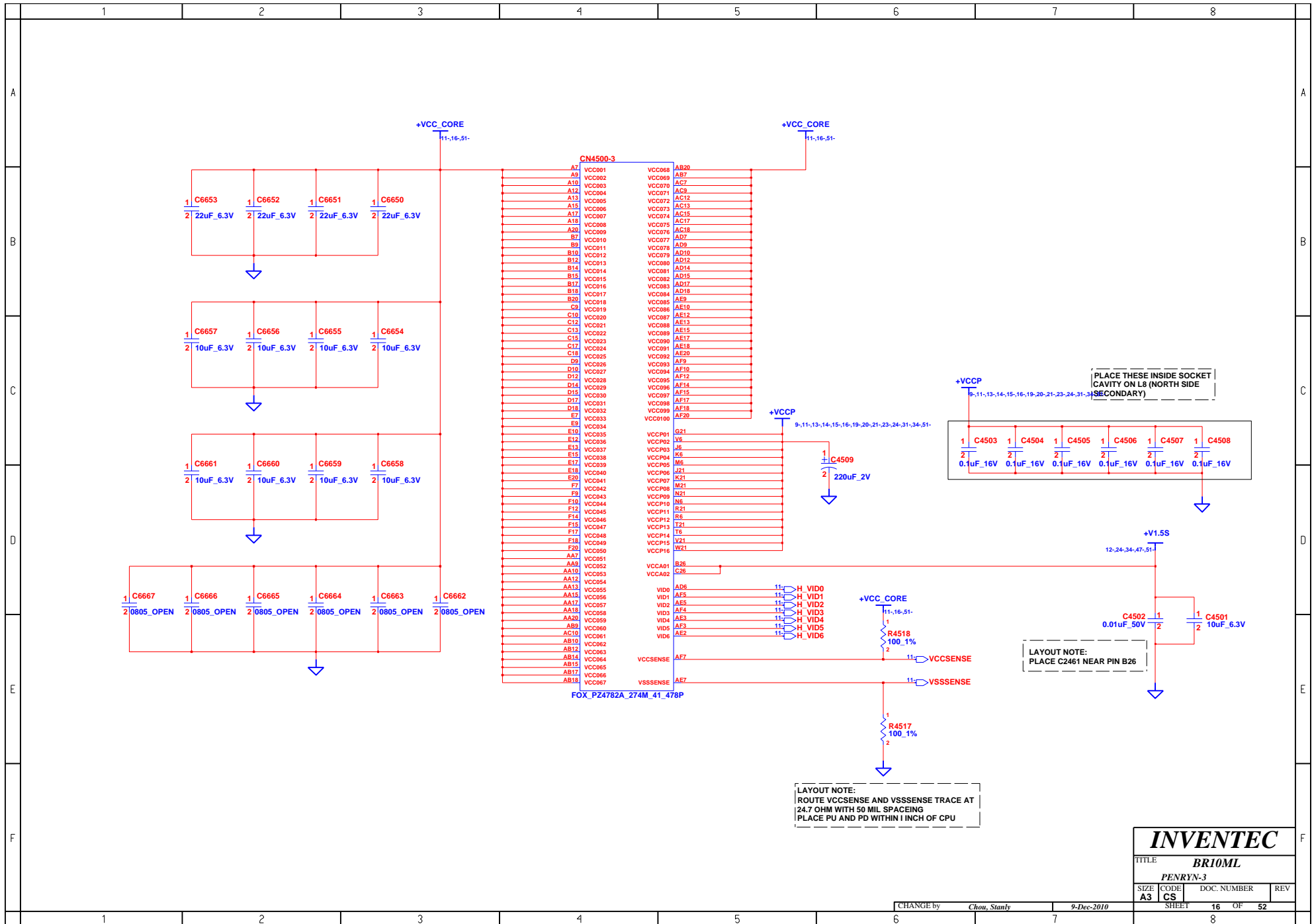














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C									C
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CN4500-4

A4

VSS001

A8

VSS002

A11

VSS003

A14

VSS004

A16

VSS005

A19

VSS006

A23

VSS007

AF2

VSS008

B6

VSS009

B8

VSS010

B11

VSS011

B13

VSS012

B16

VSS013

B19

VSS014

B21

VSS015

B24

VSS016

C5

VSS017

C8

VSS018

C11

VSS019

C14

VSS020

C16

VSS021

C19

VSS022

C2

VSS023

C22

VSS024

C25

VSS025

D1

VSS026

D4

VSS027

D8

VSS028

D11

VSS029

D13

VSS030

D16

VSS031

D19

VSS032

D23

VSS033

D26

VSS034

E3

VSS035

E6

VSS036

E8

VSS037

E11

VSS038

E14

VSS039

E16

VSS040

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VSS041

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E24

VSS043

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VSS044

F8

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F11

VSS046

F13

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F16

VSS048

F19

VSS049

F2

VSS050

F22

VSS051

F25

VSS052

G4

VSS053

G1

VSS054

G23

VSS055

G26

VSS056

H3

VSS057

H6

VSS058

H21

VSS059

H24

VSS060

J4

VSS061

J5

VSS062

J22

VSS063

J25

VSS064

K1

VSS065

K4

VSS066

K23

VSS067

K26

VSS068

L3

VSS069

L6

VSS070

L21

VSS071

L24

VSS072

M2

VSS073

M5

VSS074

M22

VSS075

M25

VSS076

N1

VSS077

N4

VSS078

N23

VSS079

N26

VSS080

P3

VSS081

P6

VSS082

P21

VSS083

P24

VSS084

R2

VSS085

R5

VSS086

R22

VSS087

R25

VSS088

T1

VSS089

T4

VSS090

T23

VSS091

T26

VSS092

U3

VSS093

U6

VSS094

U21

VSS095

U24

VSS096

V2

VSS097

V5

VSS098

V22

VSS099

V25

VSS100

W1

VSS101

W4

VSS102

W23

VSS103

W26

VSS104

Y3

VSS105

Y6

VSS106

Y21

VSS107

Y24

VSS108

AA2

VSS109

AA5

VSS110

AA8

VSS111

AA11

VSS112

AA14

VSS113

AA16

VSS114

AA19

VSS115

AA22

VSS116

AA25

VSS117

AB1

VSS118

AB4

VSS119

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VSS133

AC21

VSS134

AC24

VSS135

AD2

VSS136

AD5

VSS137

AD8

VSS138

AD11

VSS139

AD13

VSS140

AD16

VSS141

AD19

VSS142

AD22

VSS143

AD25

VSS144

AE1

VSS145

AE4

VSS146

AE8

VSS147

AE11

VSS148

AE14

VSS149

AE16

VSS150

AE19

VSS151

AE23

VSS152

AE26

VSS153

A2

VSS154

AF6

VSS155

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AF16

VSS159

AF19

VSS160

AF21

VSS161

A25

VSS162

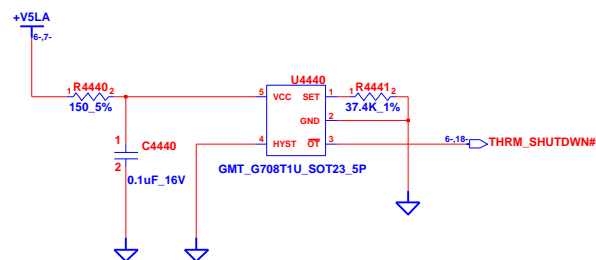
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VSS163

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PENRYN-4			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		17	OF 52

CHANGE by *Chou, Stanley* 9-Dec-2010



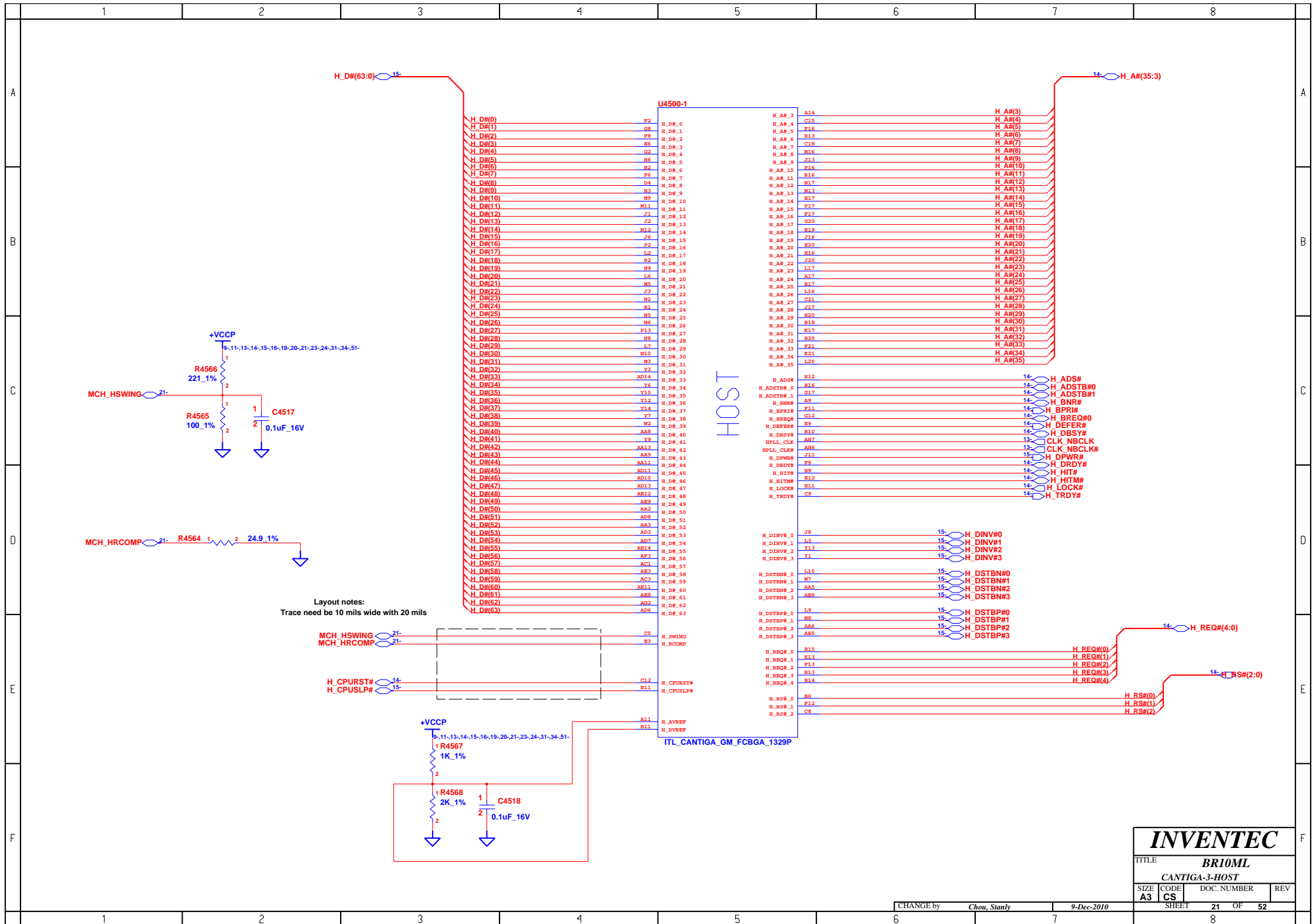
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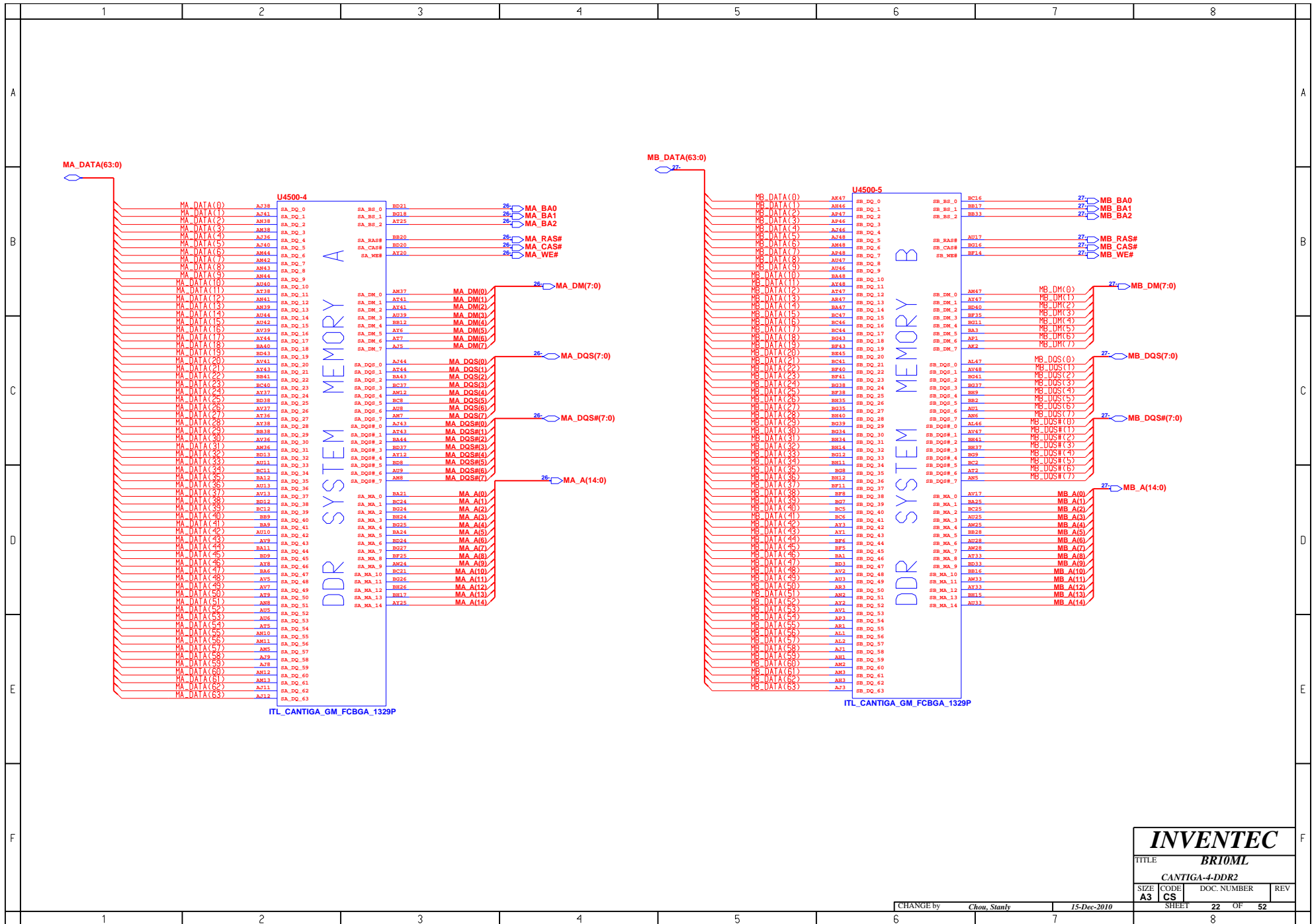


CHANGE by	<i>Chou, Stanly</i>	<i>9-Dec-2010</i>
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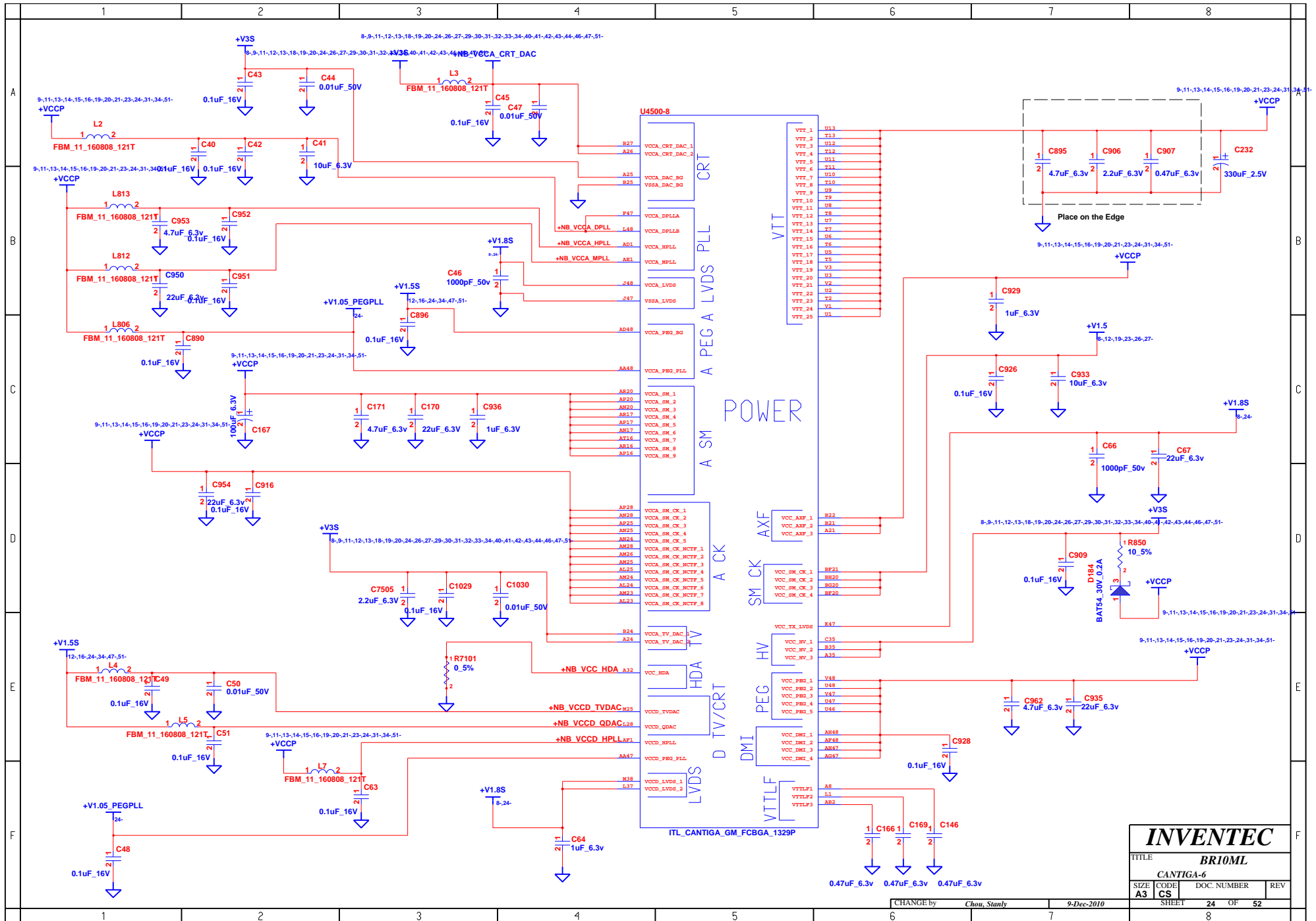






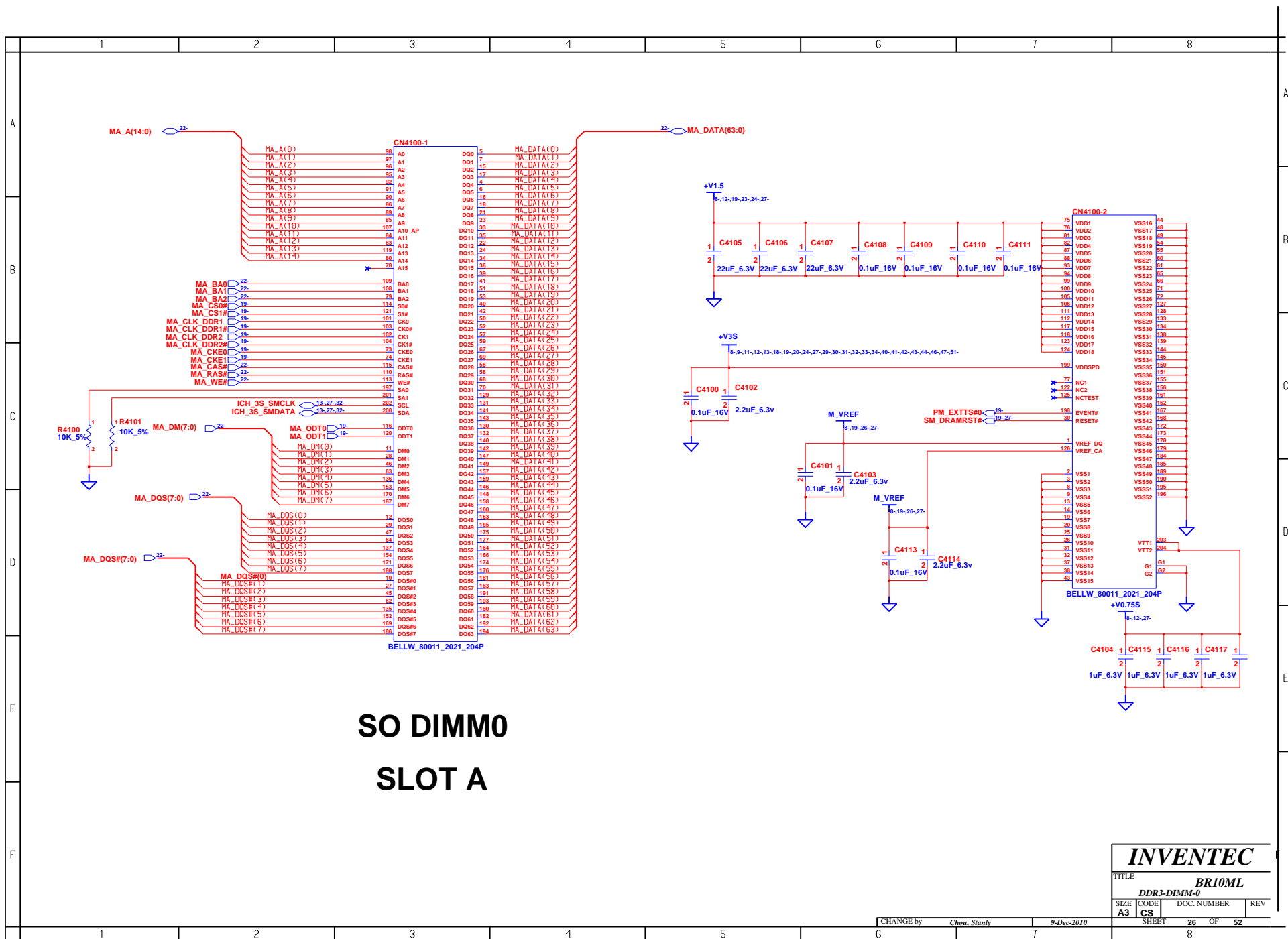








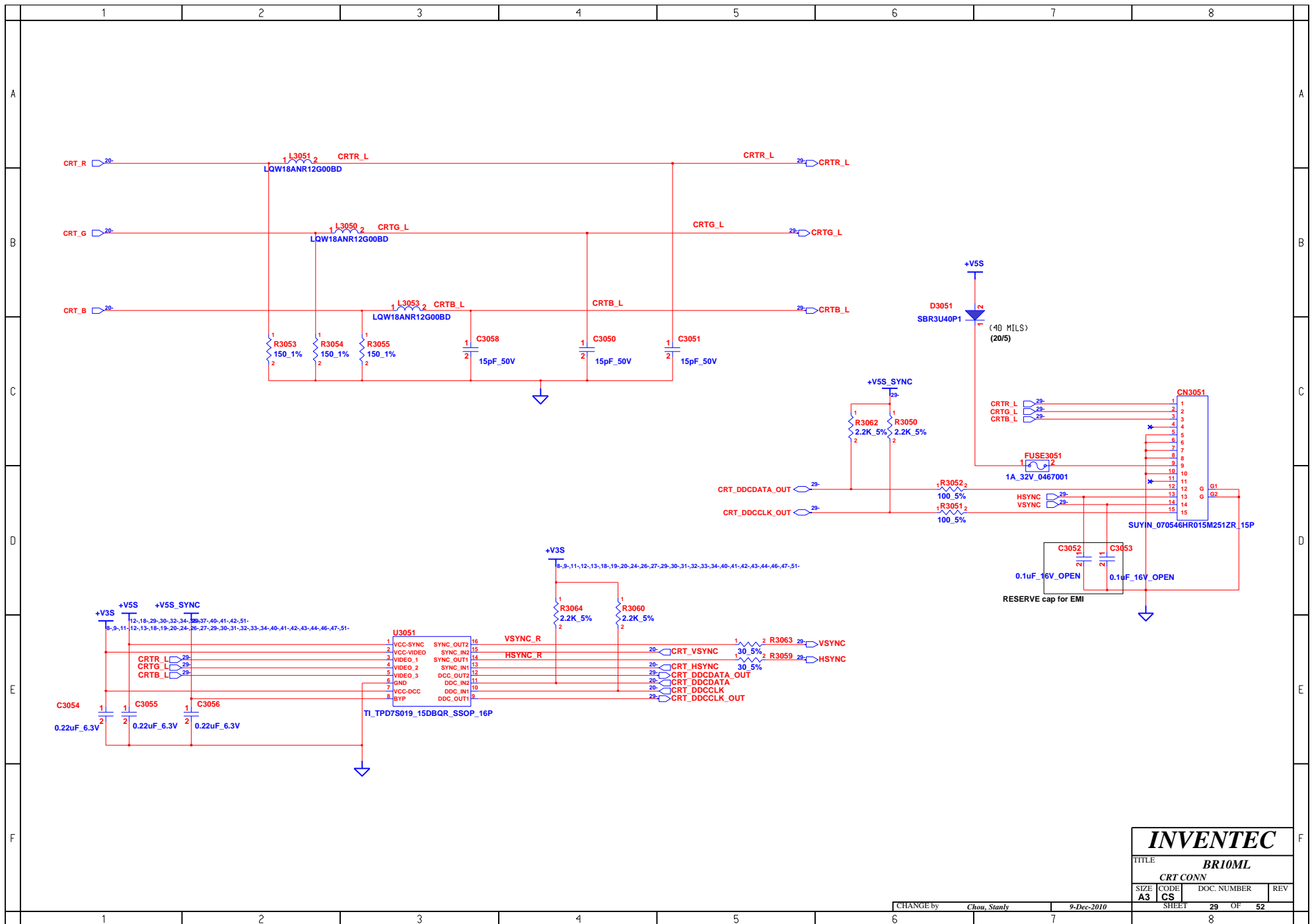
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B								
C								
D								
E								
F								





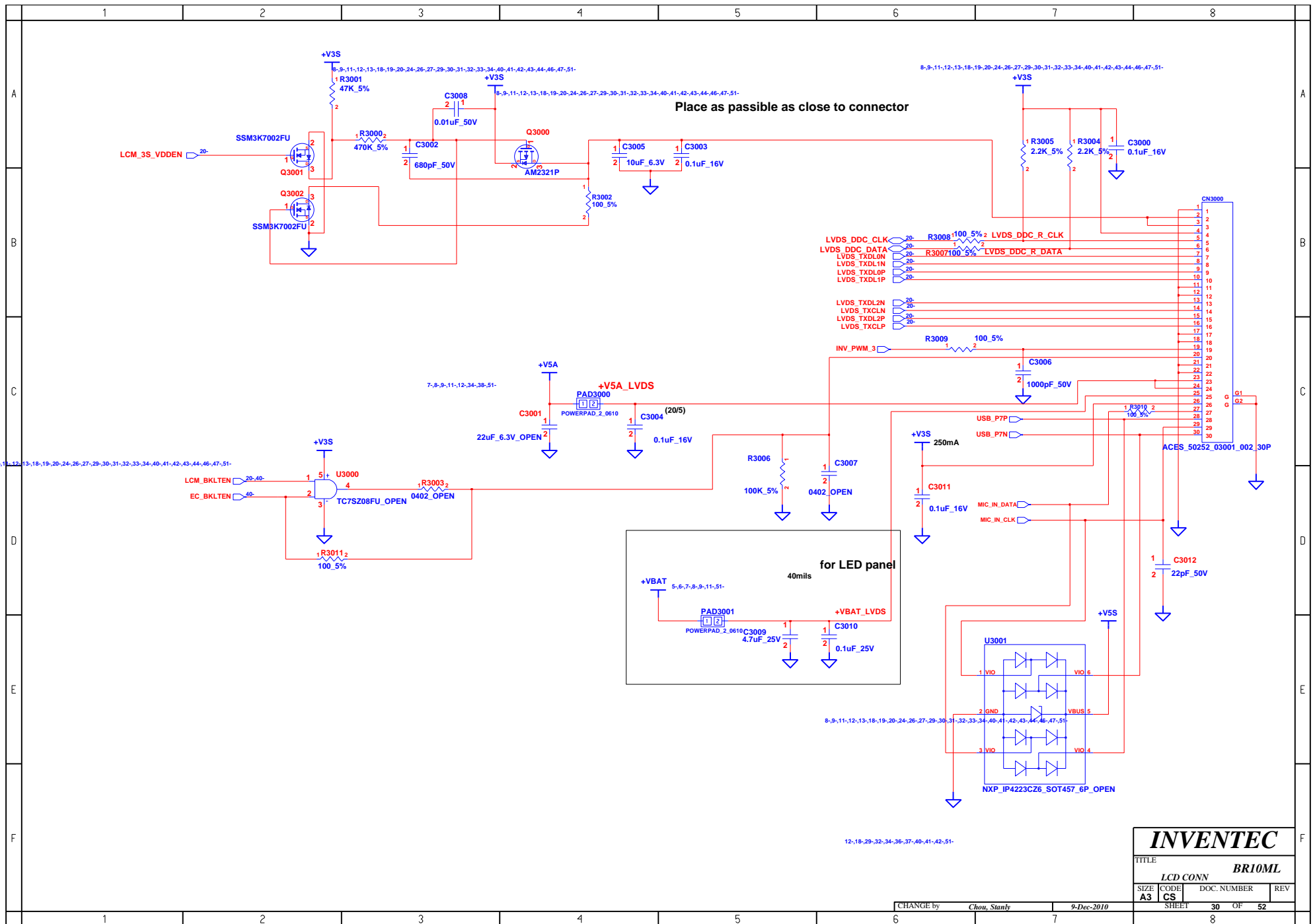
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B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>Calcutta 10ML</i>			
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 28 OF 52	



INVENTEC			
TITLE <b>BRI0ML</b>			
CRT CONN			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET <b>29</b> OF <b>52</b>			

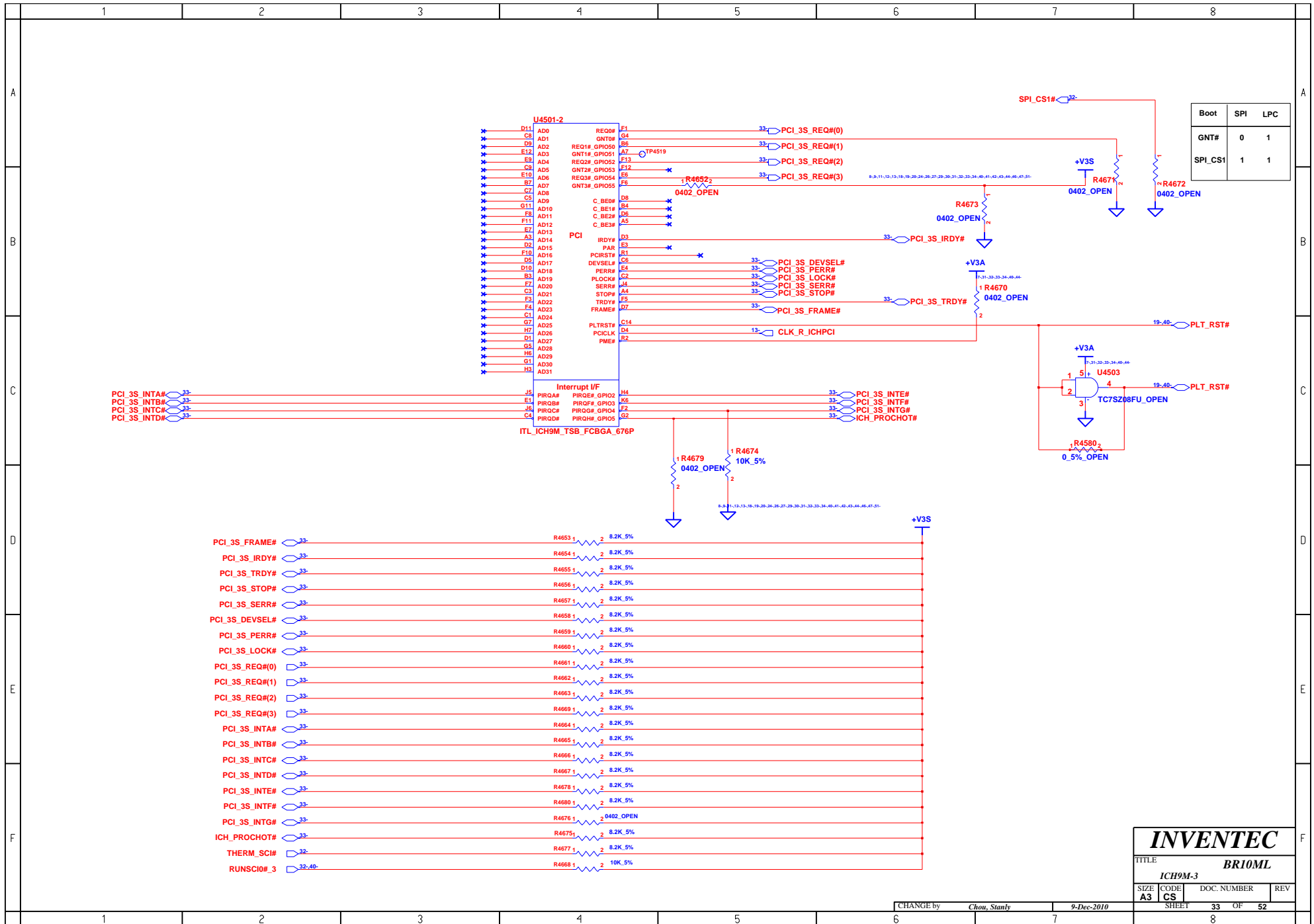
CHANGE by *Chou, Stanley* 9-Dec-2010













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

INVENTEC			
TITLE		BRI0ML	
ICH9M-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	35 OF 52	

CHANGE by	Chou, Stanly	9-Dec-2010
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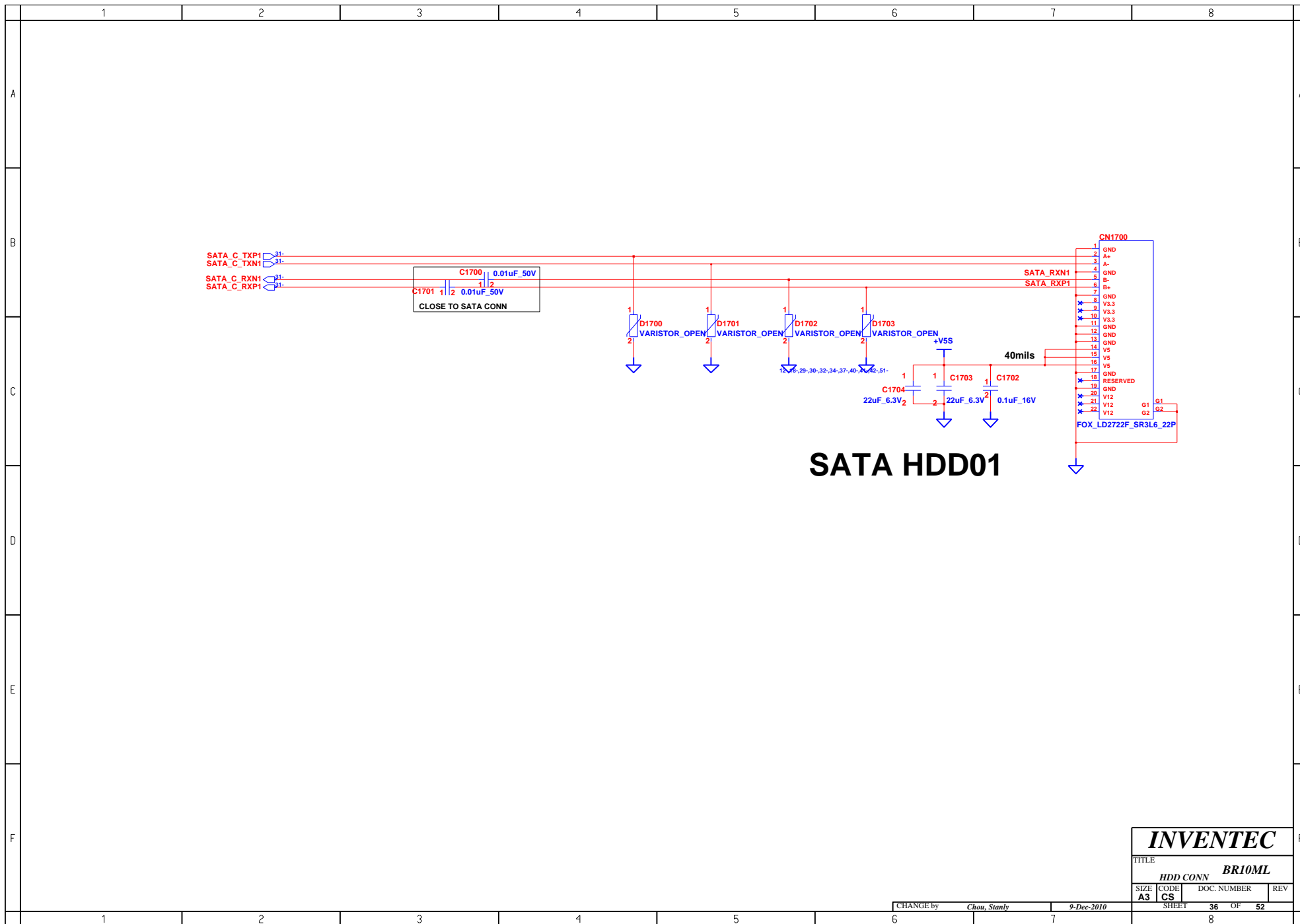
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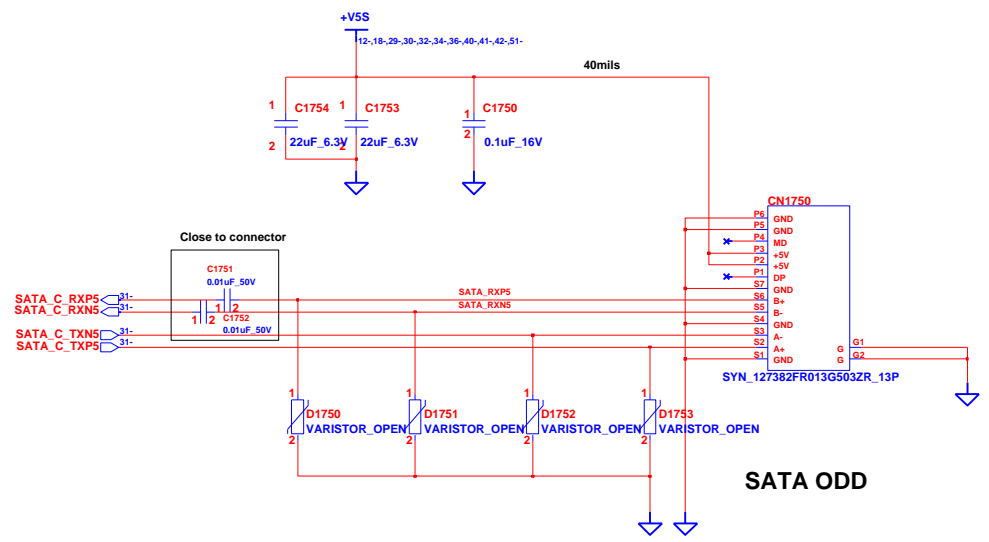
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AA23 VSS006 VSS112 K28  
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AB4 VSS009 VSS115 L15  
AB5 VSS010 VSS116 L2  
AC17 VSS011 VSS117 L26  
AC25 VSS012 VSS118 L27  
AC27 VSS013 VSS119 L5  
AC3 VSS014 VSS120 L7  
AD1 VSS015 VSS121 M12  
AD10 VSS016 VSS122 M13  
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AH2 VSS064 VSS170 U13  
AH22 VSS065 VSS171 U14  
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AHS VSS068 VSS174 U17  
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AJ12 VSS070 VSS176 U26  
AJ14 VSS071 VSS177 U27  
AJ17 VSS072 VSS178 U3  
AJ8 VSS073 VSS179 V1  
B11 VSS074 VSS180 V13  
B14 VSS075 VSS181 V15  
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E14 VSS085 VSS191 Y28  
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E2 VSS087 VSS193 Y4  
E21 VSS088 VSS194 Y5  
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F16 VSS092 VSS198 B25  
F28 VSS093  
F29 VSS094 VSS\_NCTF1 A1  
G12 VSS095 VSS\_NCTF2 A2  
G14 VSS096 VSS\_NCTF3 A28  
G19 VSS097 VSS\_NCTF4 A29  
G21 VSS098 VSS\_NCTF5 AH1  
G24 VSS099 VSS\_NCTF6 AH28  
G25 VSS100 VSS\_NCTF7 AJ1  
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G8 VSS102 VSS\_NCTF9 AJ28  
H3 VSS103 VSS\_NCTF10 AJ29  
H23 VSS104 VSS\_NCTF11 B1  
H28 VSS105 VSS\_NCTF12 B29  
H28 VSS106

ITL ICH9M\_TSB\_FCBGA\_676P

<b>INVENTEC</b>			
TITLE		<b>BR10ML</b>	
<b>ICH9M-5</b>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	SHEET 35 OF 52	
8			

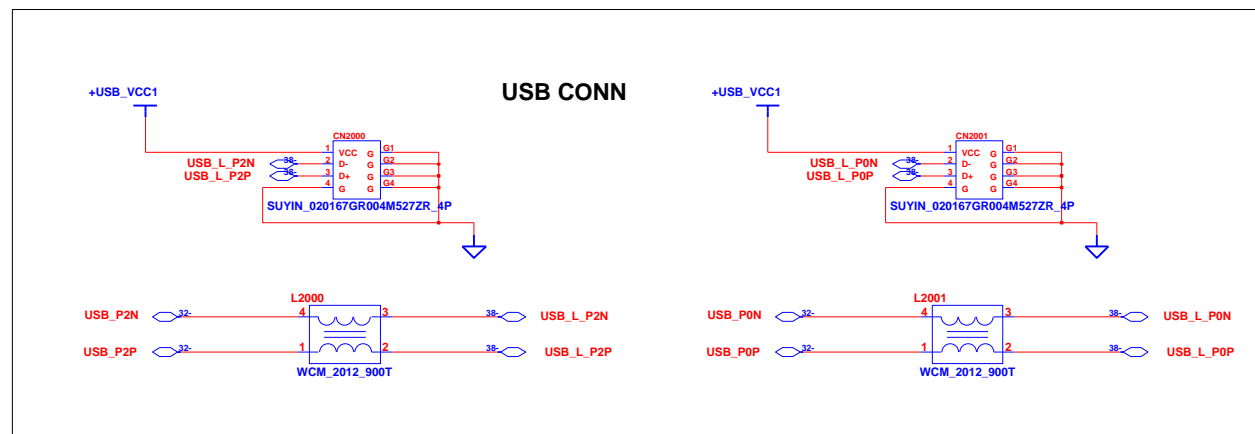
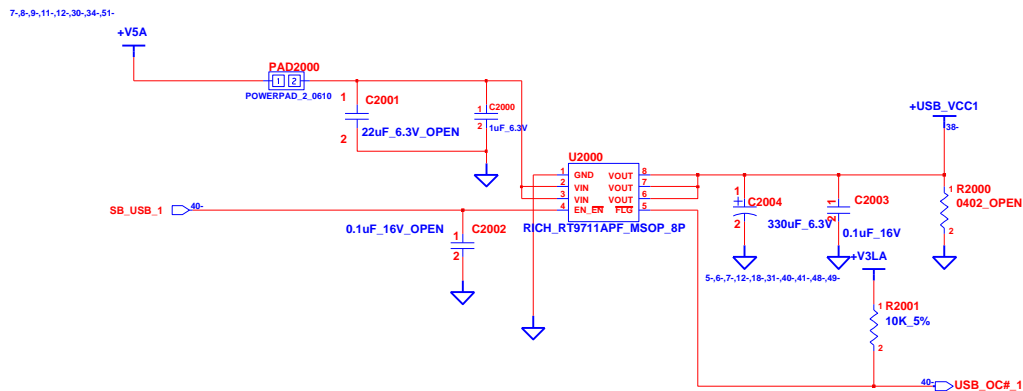
CHANGE by Chou, Stanley 9-Dec-2010





INVENTEC			
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SATA ODD BR10ML			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	37	52
SHEET			
8			

CHANGE by Chou, Stanley 9-Dec-2010

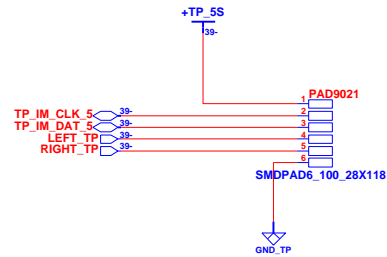


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SIZE	CODE	DOC. NUMBER	REV
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SHEET		38	OF 52

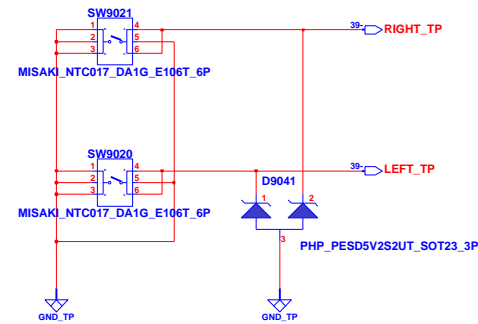
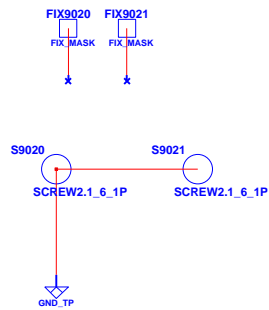
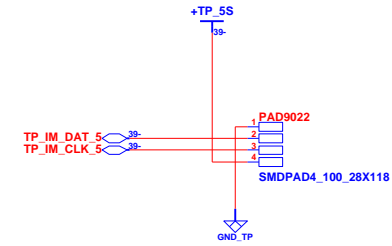
CHANGE by Chou, Stanley 9-Dec-2010

# TOUCHPAD SWITCH BOARD

Connect to Touchpad Module



Connect to Mainboard's TP connector

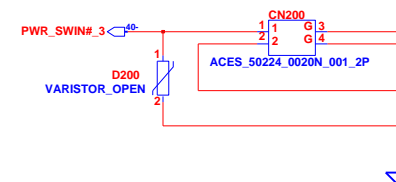
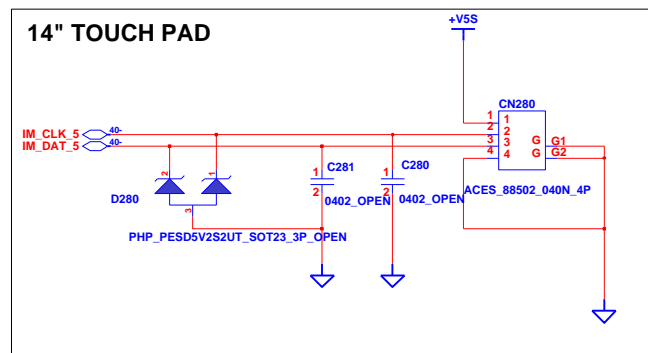
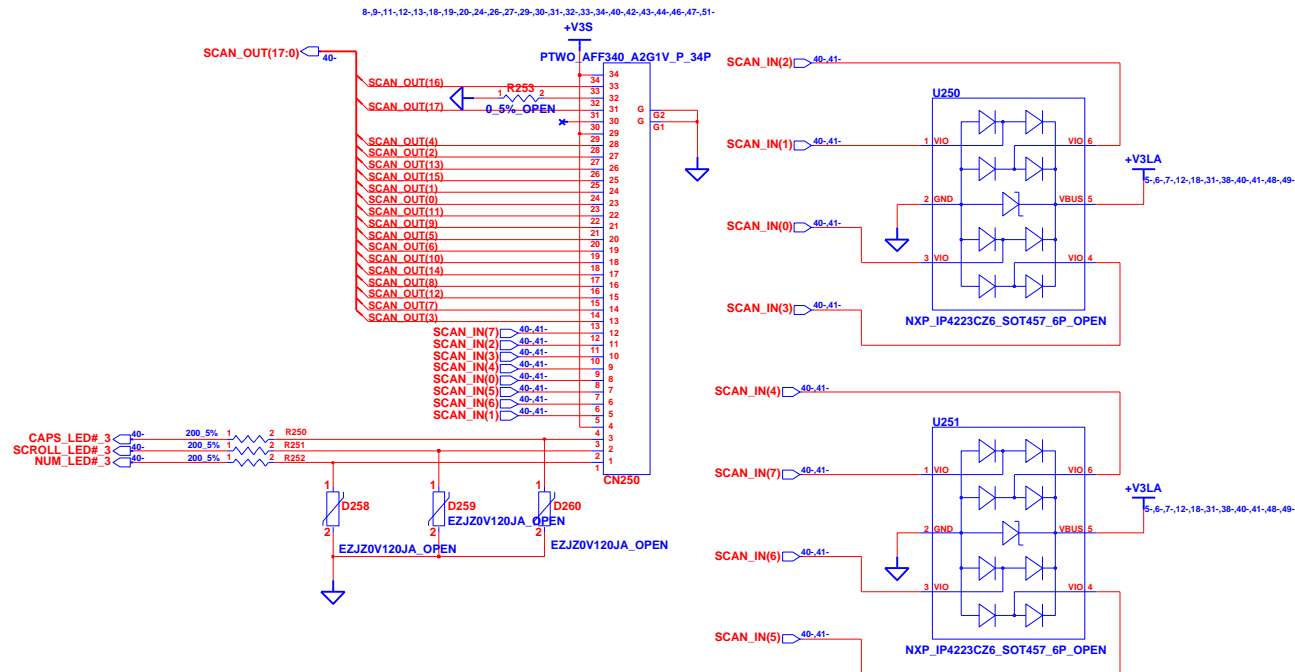


INVENTEC			
TITLE			
Camera			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET		39	OF 52

CHANGE by Chou, Stanley 15-Dec-2010





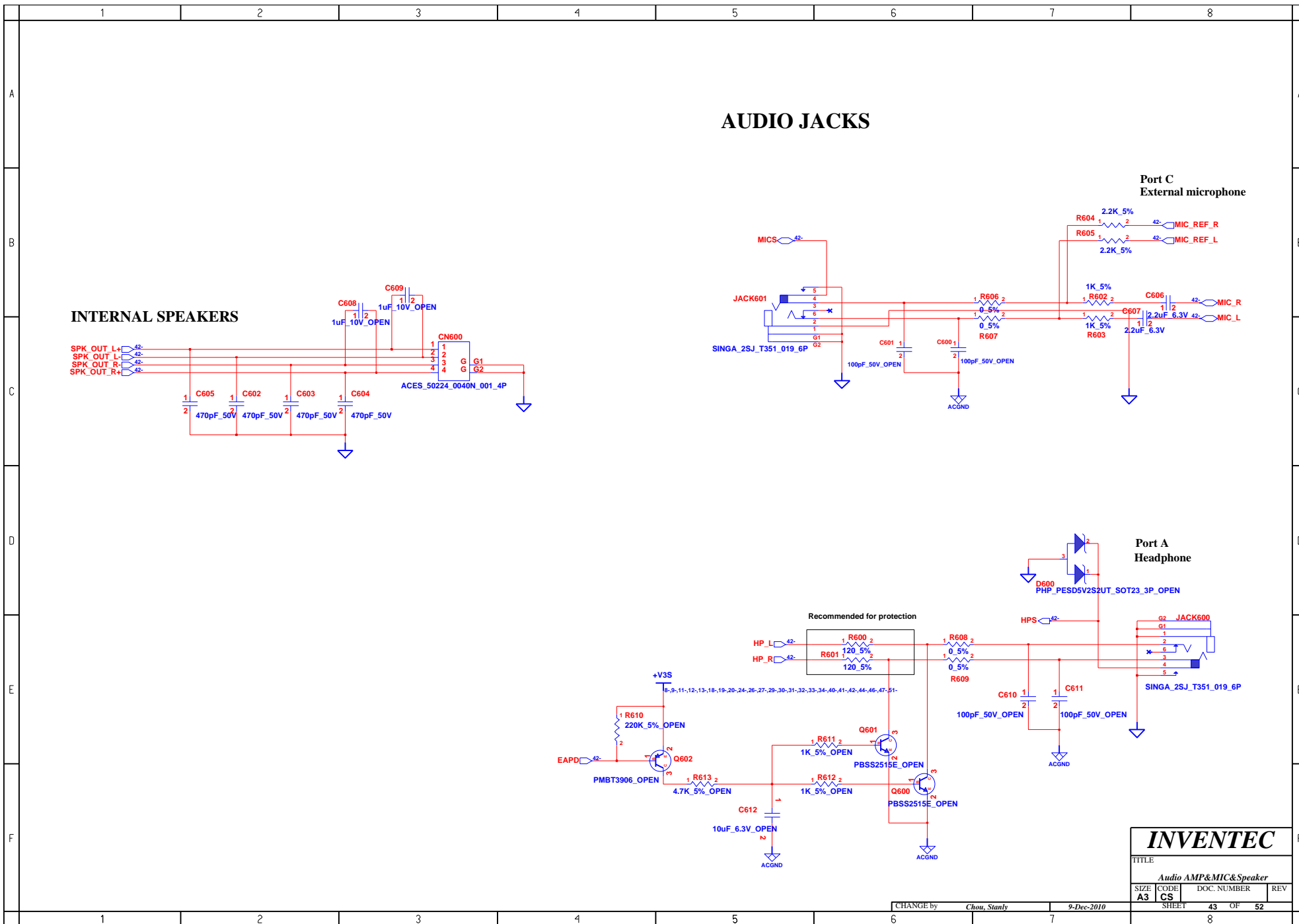


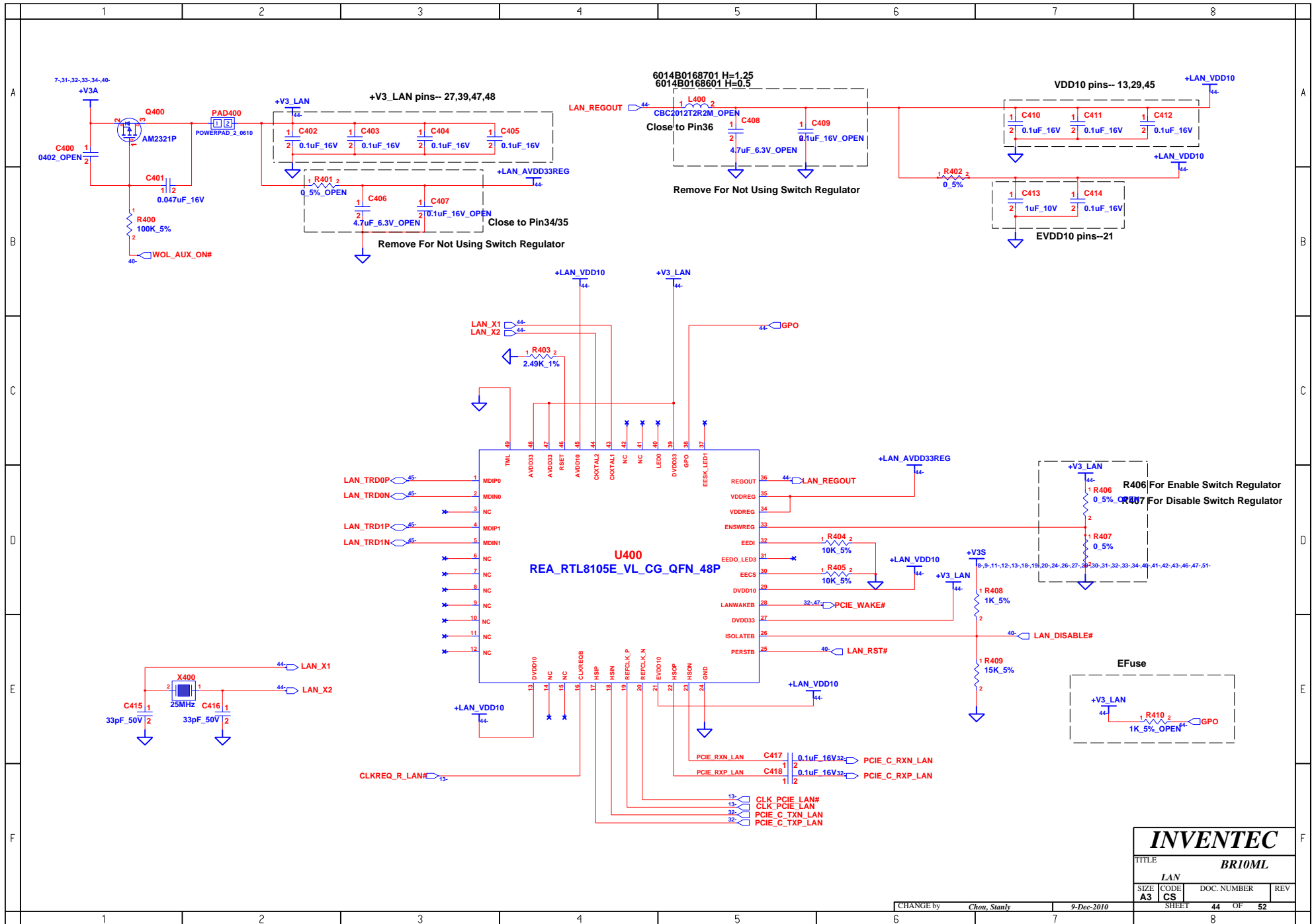
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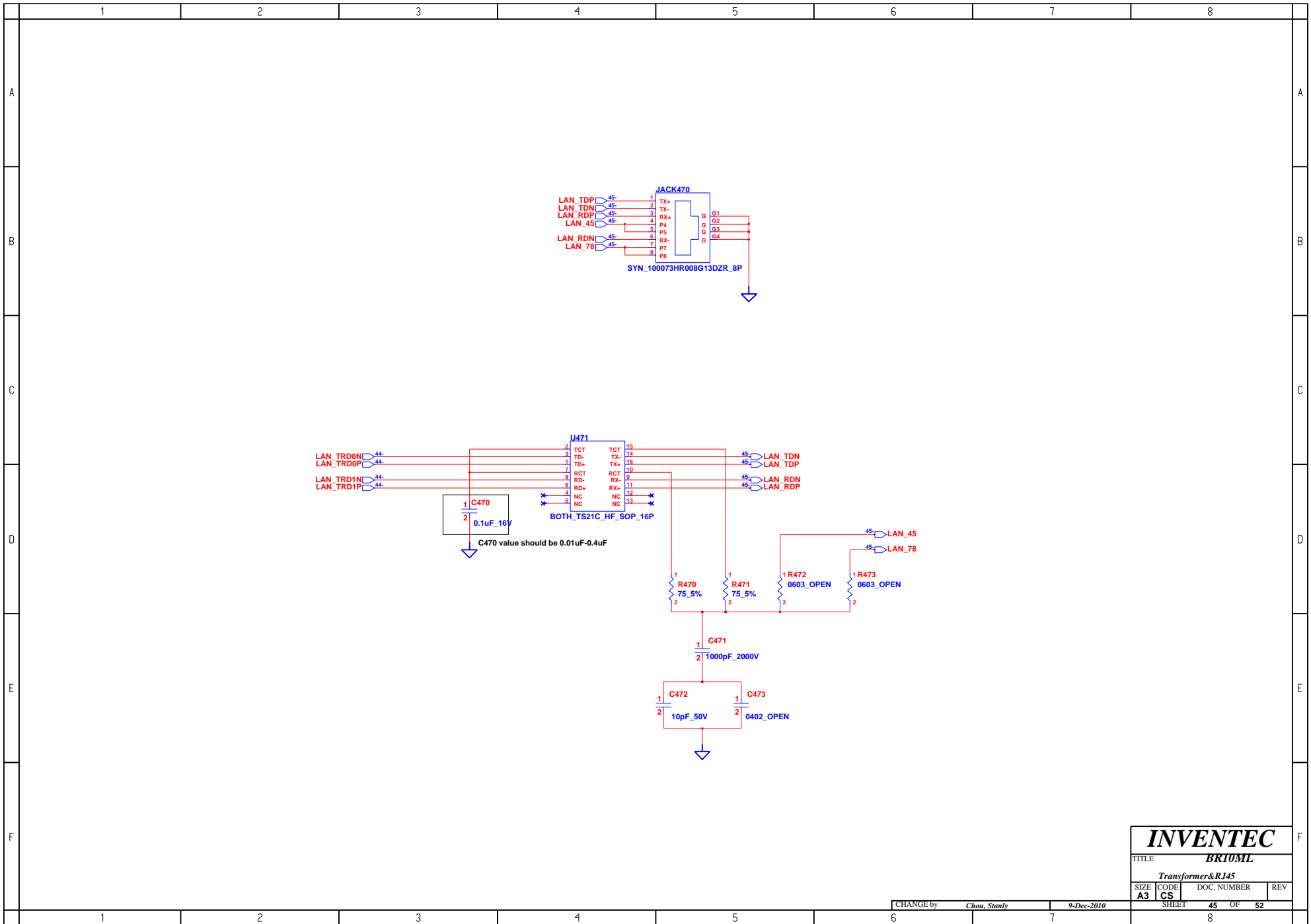
TITLE			
K/B & TP/B CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET		41	OF 52

CHANGE by Chou, Stanley 9-Dec-2010







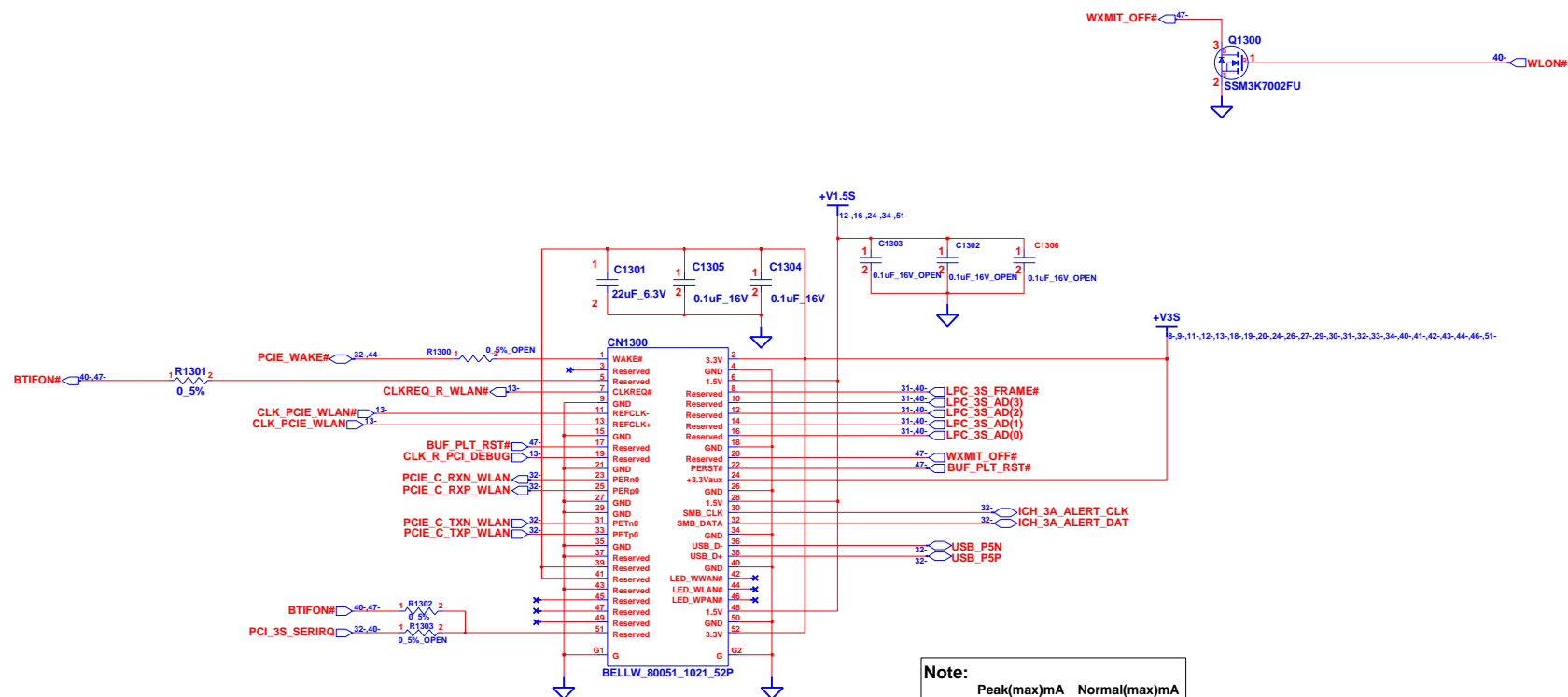


INVENTEC			
TITLE			
BRI0ML			
Transformer&RJ45			
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A3	CS		
SHEET		45	OF 52
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CHANGE by Chou, Stanley 9-Dec-2010



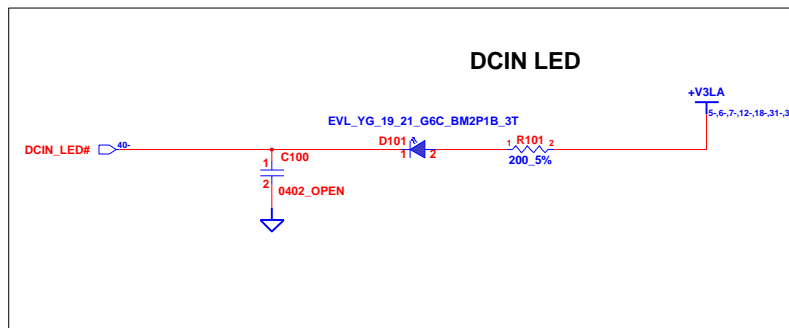
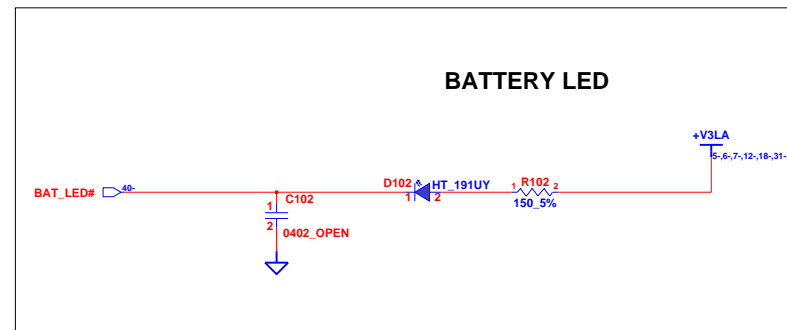
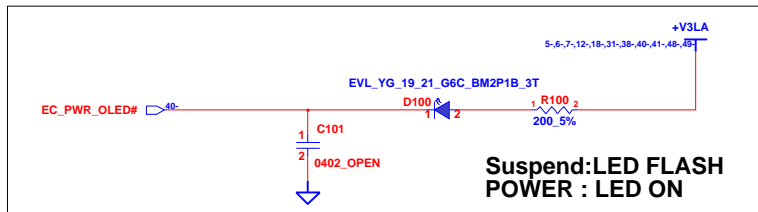
# Wireless & Debug card



**INVENTEC**

TITLE		
Wireless & debug card		
SIZE	CODE	DOC. NUMBER
A3	CS	
SHEET		REV
47		52

CHANGE by Chou, Stanley 9-Dec-2010



INVENTEC			
TITLE			
LED & Hotkey CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET		48	OF 52

CHANGE by Chou, Stanley 9-Dec-2010



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

**HALL SENSOR**

U60  
MAG\_MH248BESO\_SOT23\_3P  
GND  
VDD  
OUT

+V3LA  
5-6-7-12-18-31-38-40-41-48

R60  
100K\_5%

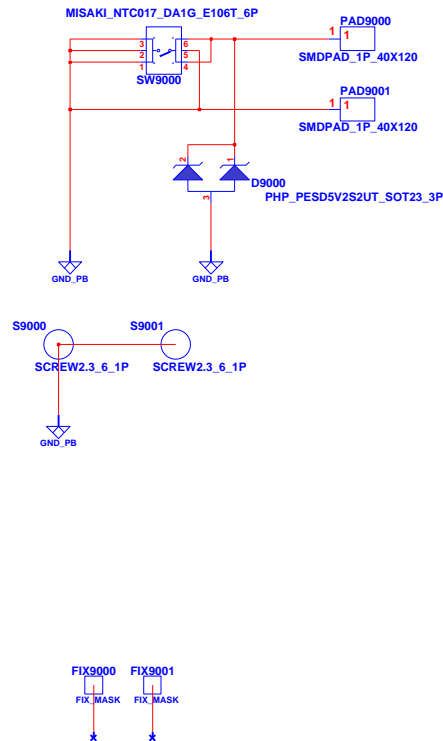
C60  
1000pF\_50v

D60  
VARISTOR\_OPEN

LID\_SW#\_3

<b>INVENTEC</b>			
TITLE			
Kill Swich & Hall Sensor			
SIZE A3	CODE CS	DOC. NUMBER	REV
CHANGE by Chou, Stanley		9-Dec-2010	SHEET 49 OF 52

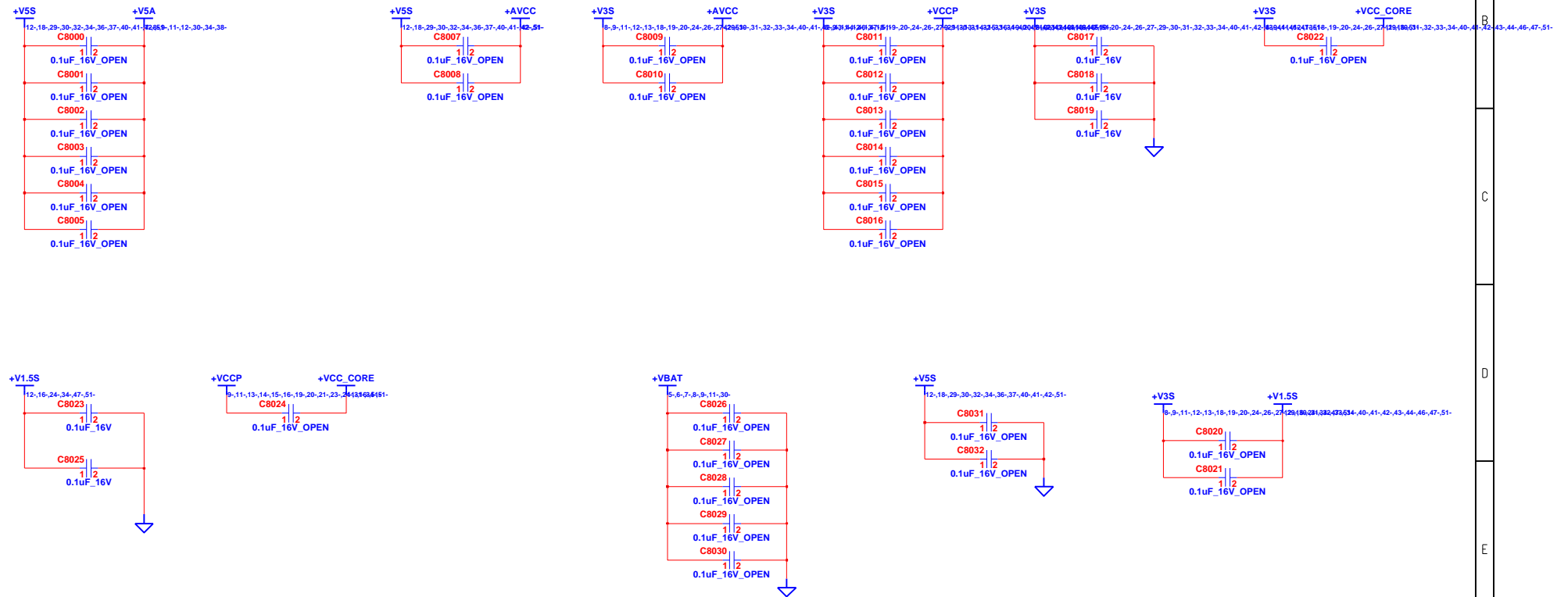
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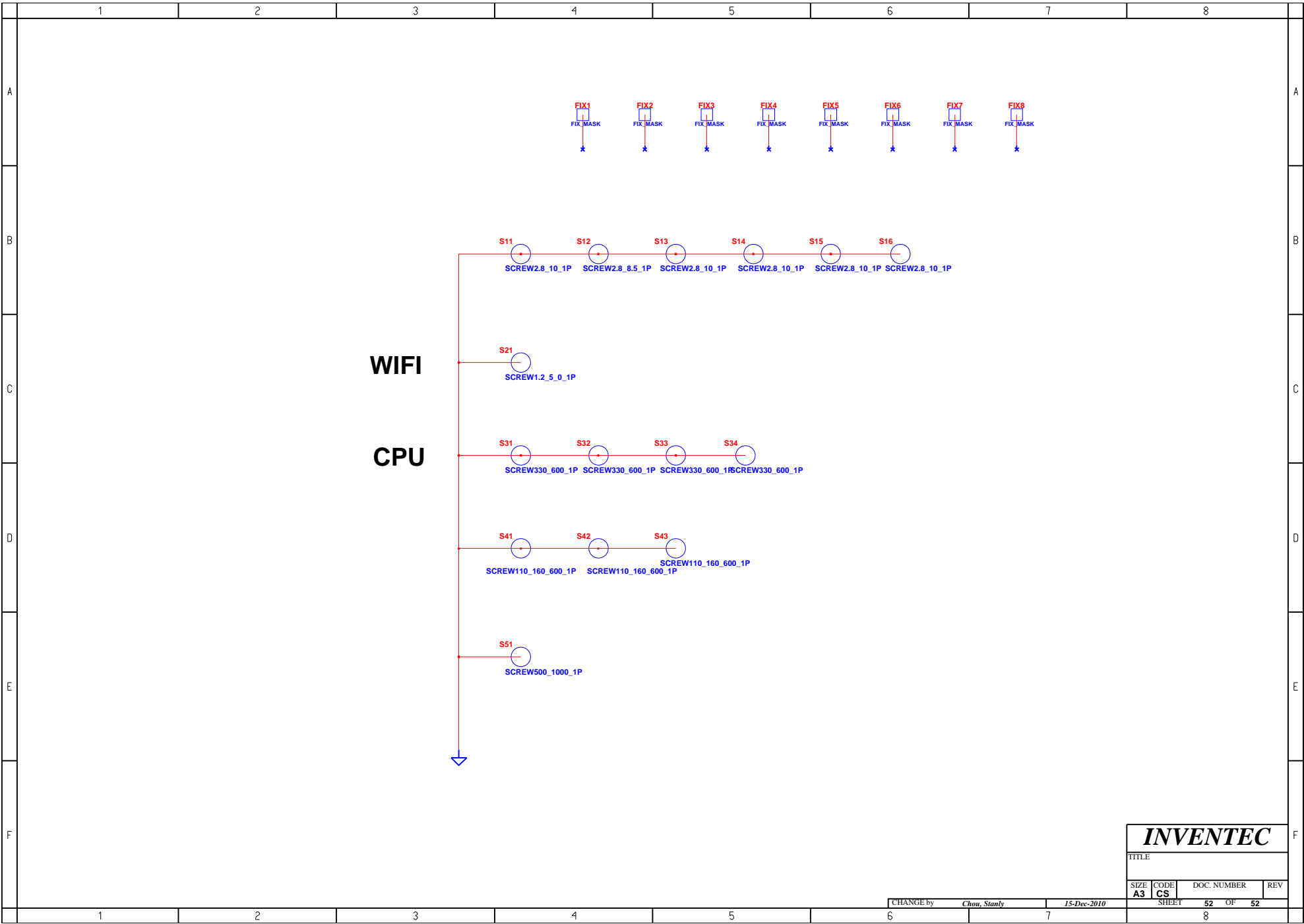
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SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		50 OF	52
8			

CHANGE by *Chou, Stanley* 21-Jan-2011

# EMI



INVENTEC			
TITLE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	51 OF 52	



**INVENTEC**

TITLE

SIZE CODE DOC. NUMBER REV

A3 CS SHEET 52 OF 52

CHANGE by Chou, Stanley 15-Dec-2010