

BR10MLG

ES Build(A01)

2011.03.08

EE		DATE		POWER		DATE		<div>INVENTEC</div> <div>TITLE BR10MLG</div>	
DRAWER	Pei, Kobe	2010-03-16		Lo, Bin-Zhi		2010-03-16			
DESIGN	Pei, Kobe	2010-03-16		Lo, Bin-Zhi		2010-03-16			
CHECK	Pei, Kobe	2010-03-16		Lo, Bin-Zhi		2010-03-16			
RESPONSIBLE	Chiou, Bryan	2010-03-16		Liang, Tommy		2010-03-16			
SIZE = 3		VER : X01		SIZE A3		CODE CS	DOC. NUMBER 6050A2446401-0-MTRX01	REV	
FILE NAME : BR10MLG-6050A2446401-MB-X01-26-BOM									
P/N 6050A2446401				SHEET 1 OF 61					

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3		
4		
5		
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7		
8		

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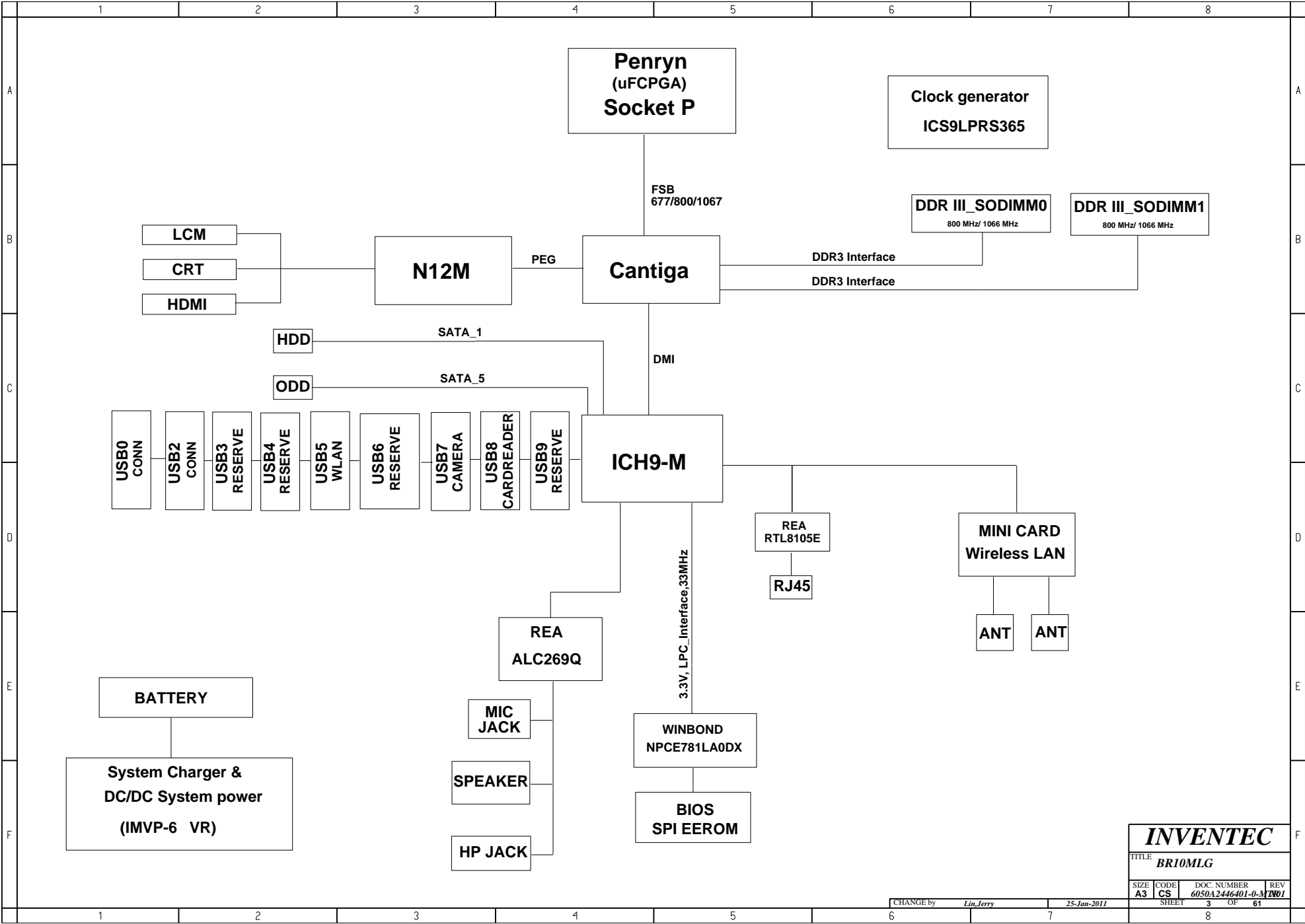
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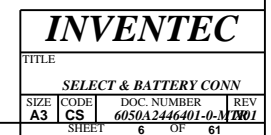
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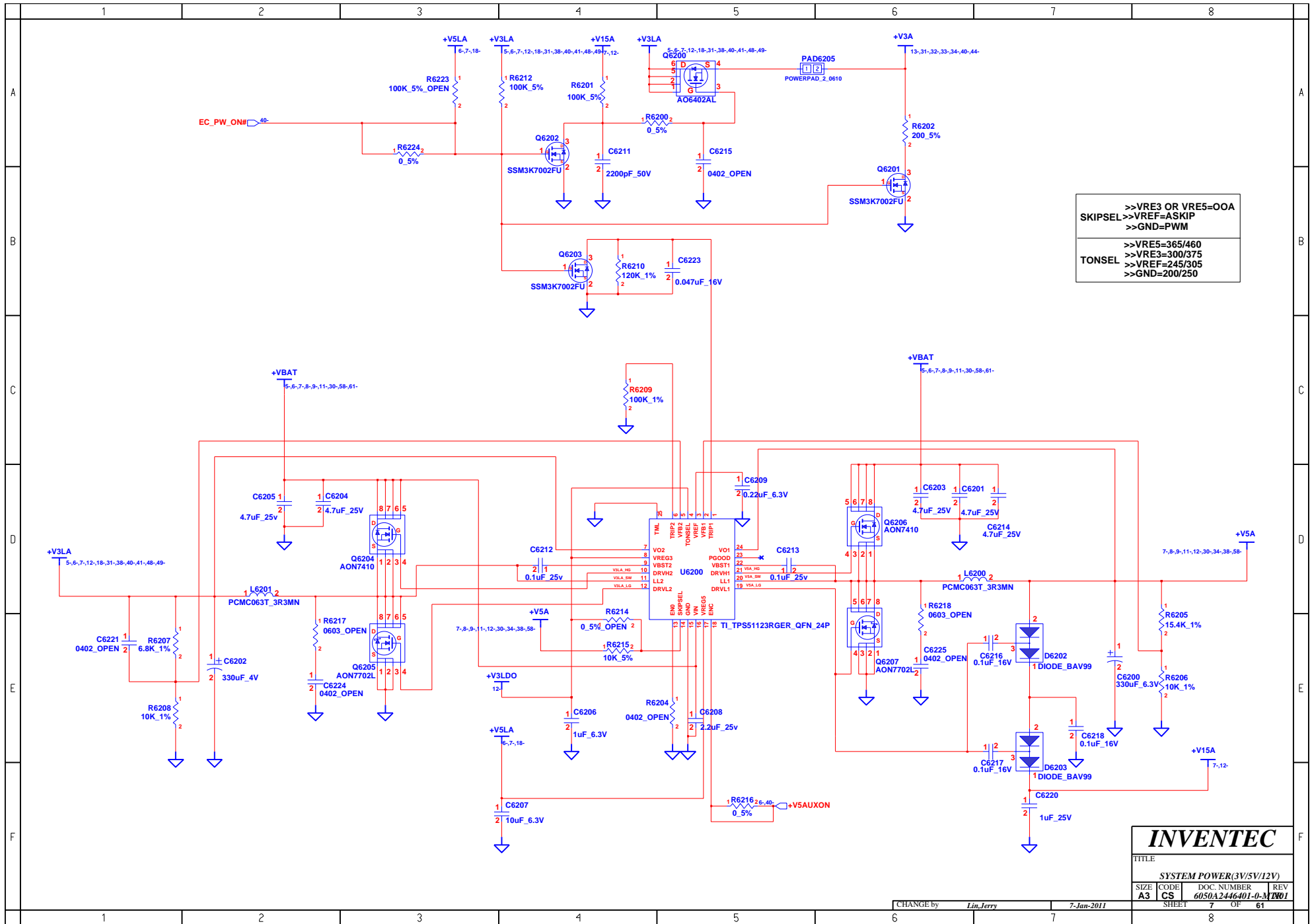
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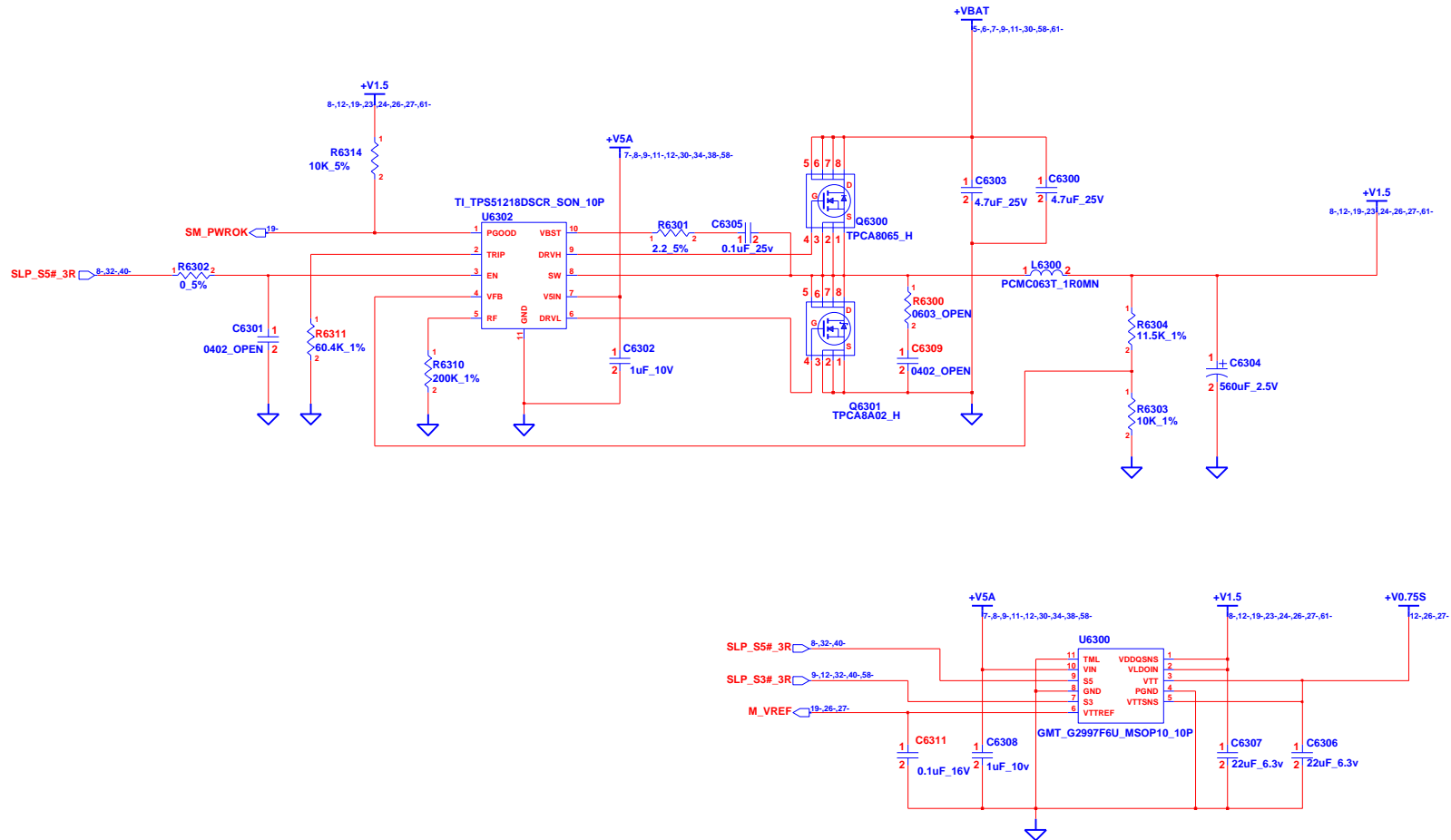
54. GPU-3
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58. GPU POWER
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60. POWER BUTTON
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TITLE BR10MLG			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 001
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET		2 OF 61	



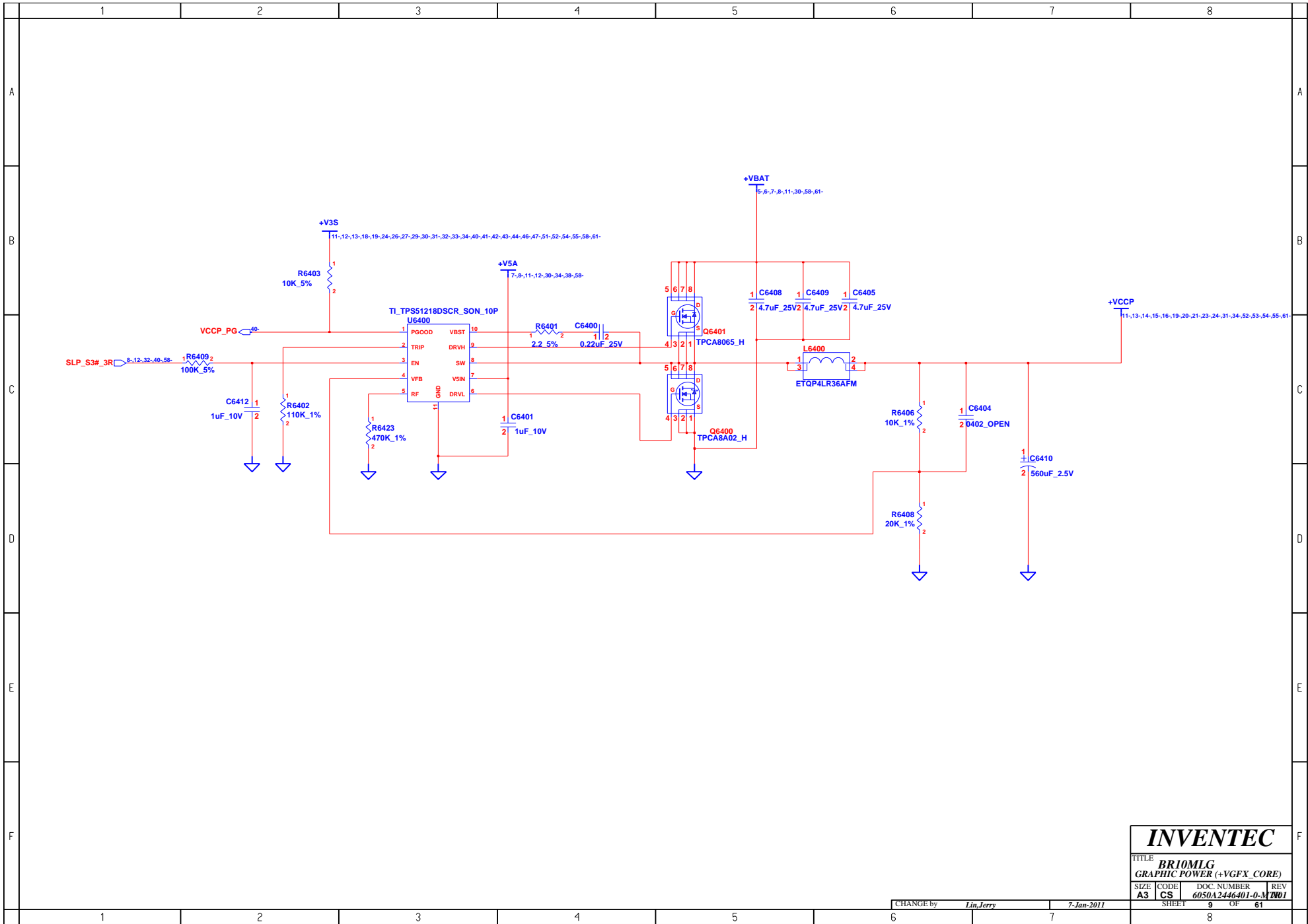






INVENTEC			
TITLE			
BR10MLG			
SYSTEM POWER(+V1.8/+V1.25S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-3	001

CHANGE by	Lin, Jerry	7-Jan-2011
SHEET	8	OF 61



INVENTEC

TITLE BR10MLG			
GRAPHIC POWER (+VGF_X_CORE)			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV 001
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET 9		OF 61	

	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
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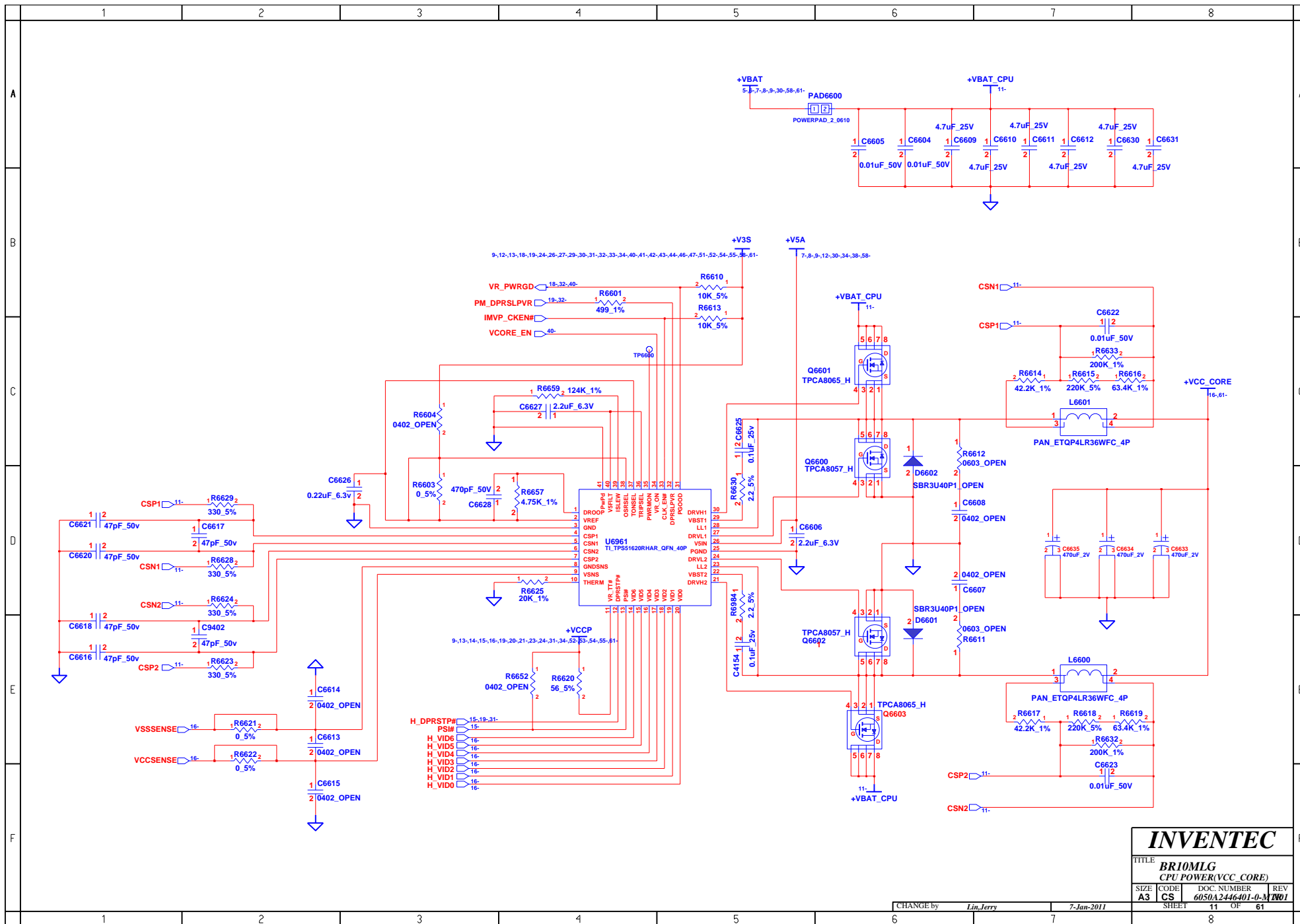
INVENTEC

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SYSTEM POWER(+VCCP/+V1.5S)

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CHANGE by *Lin, Jerry* 7-Jan-2011

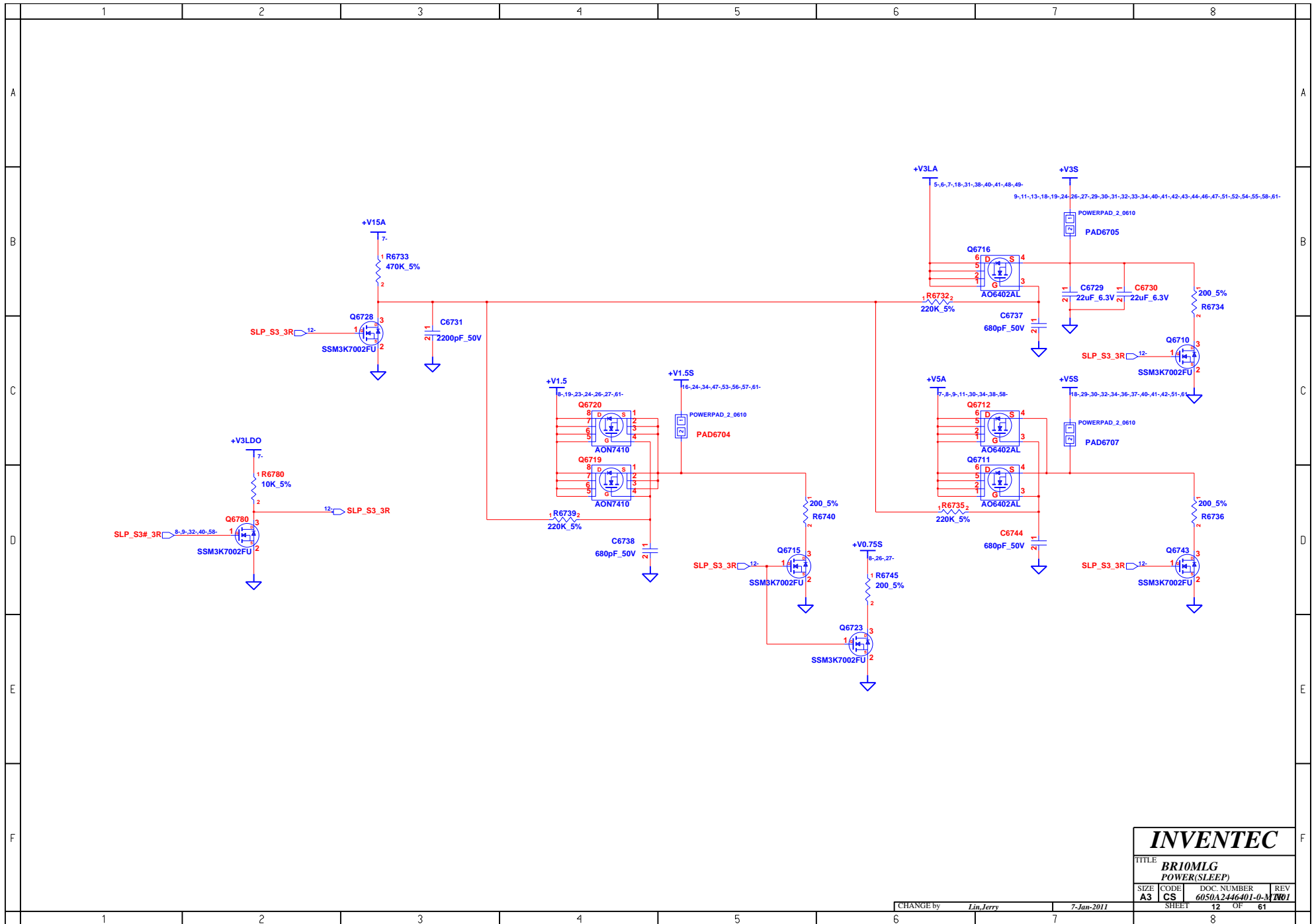
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INVENTEC

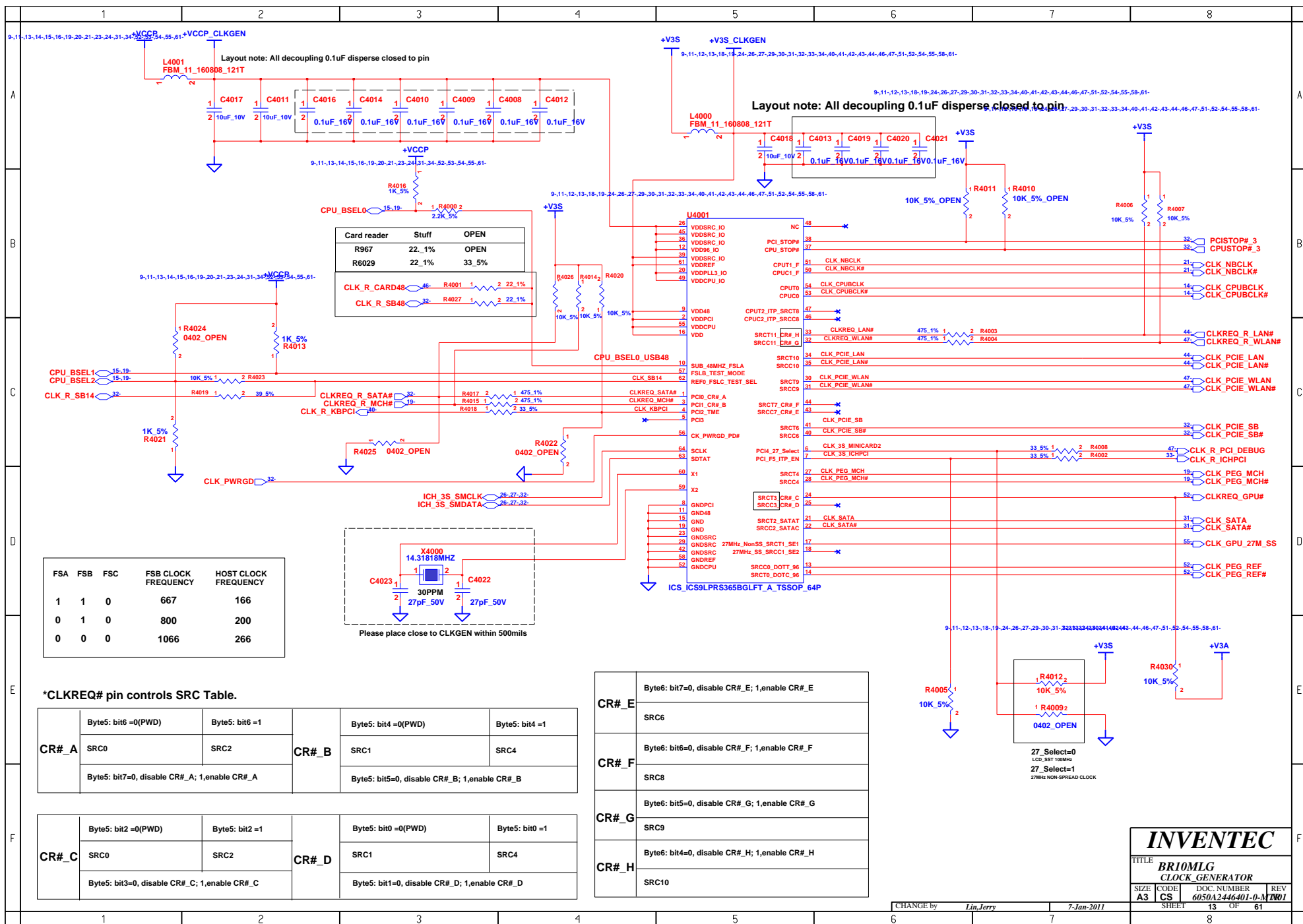
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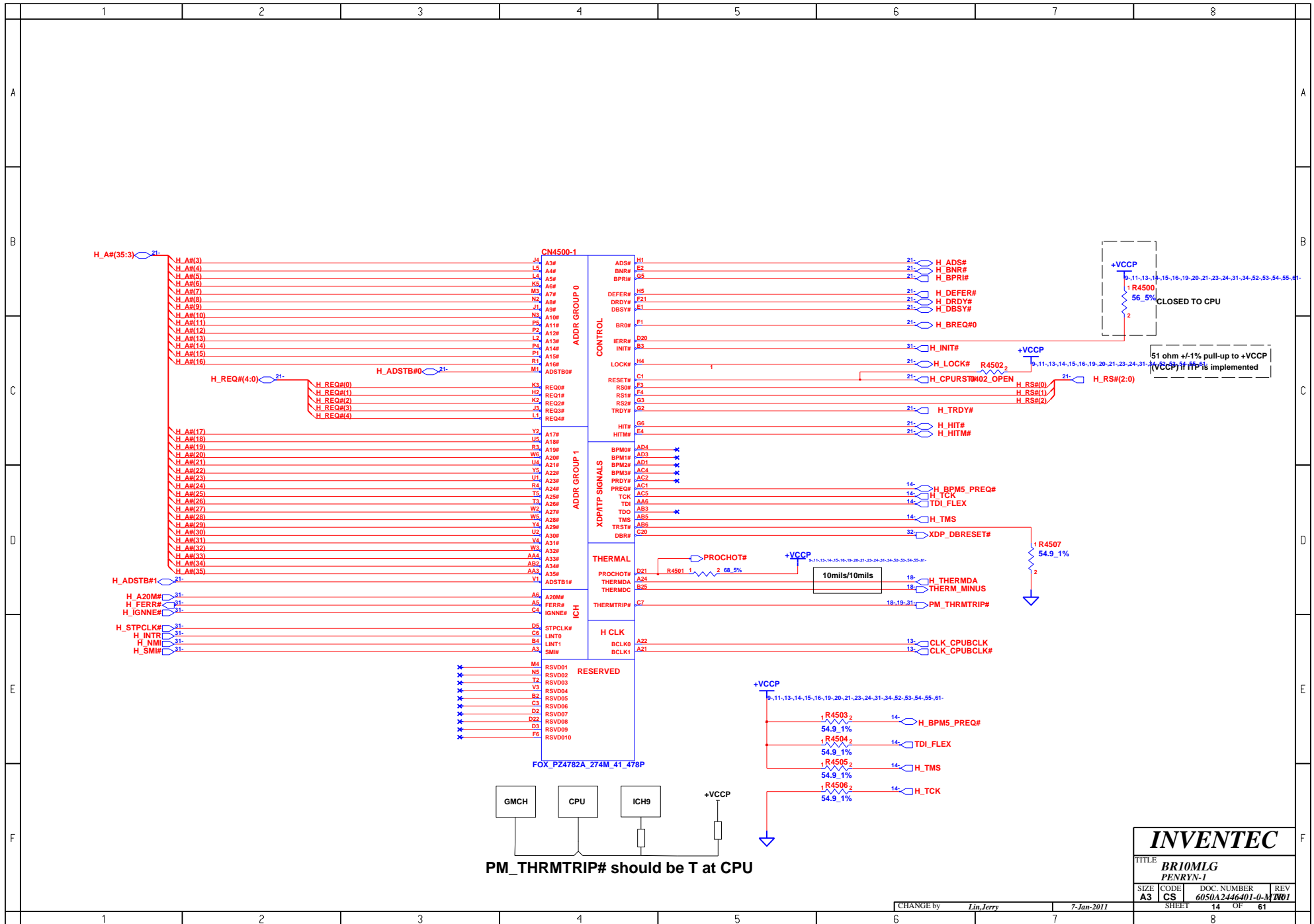
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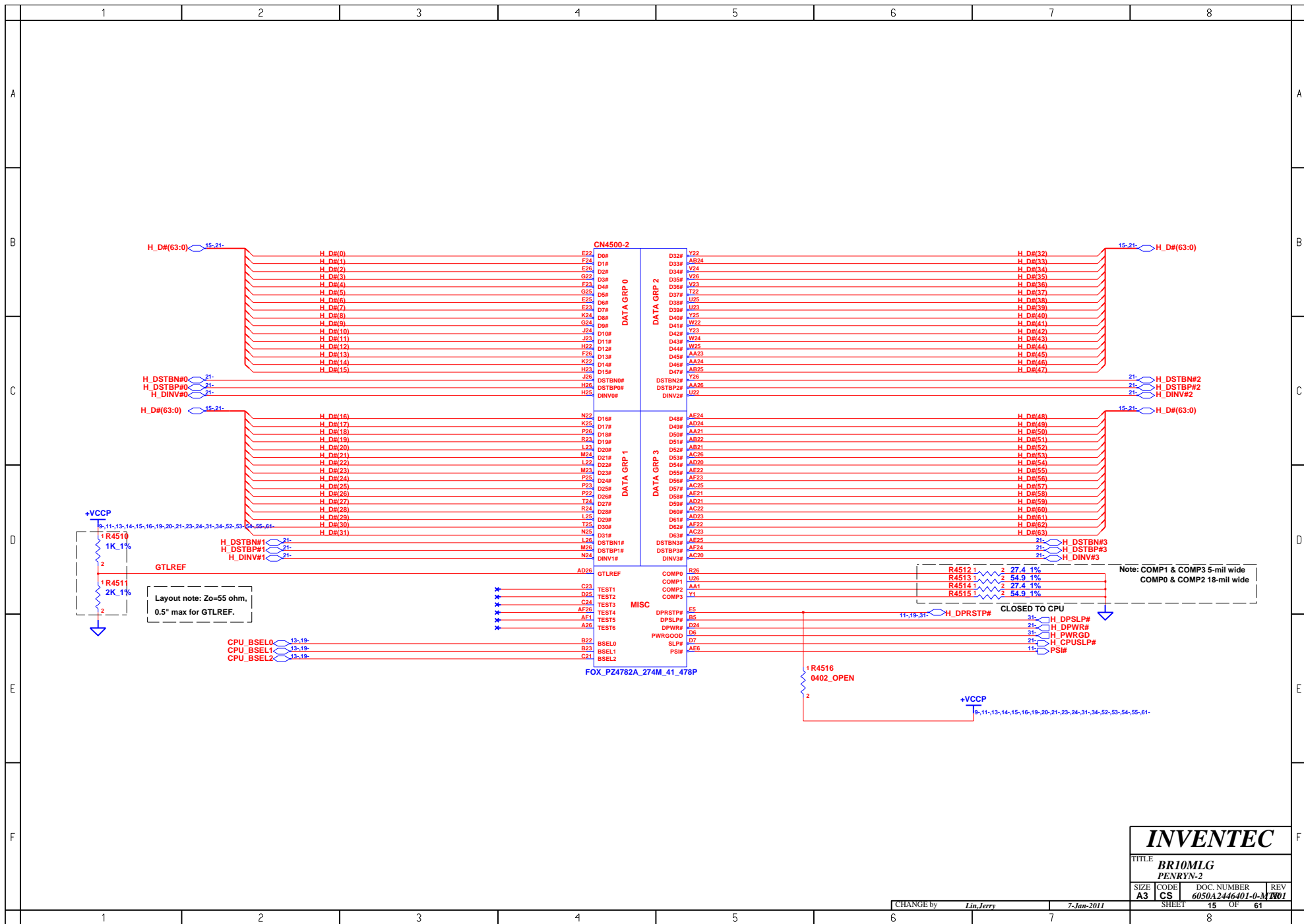


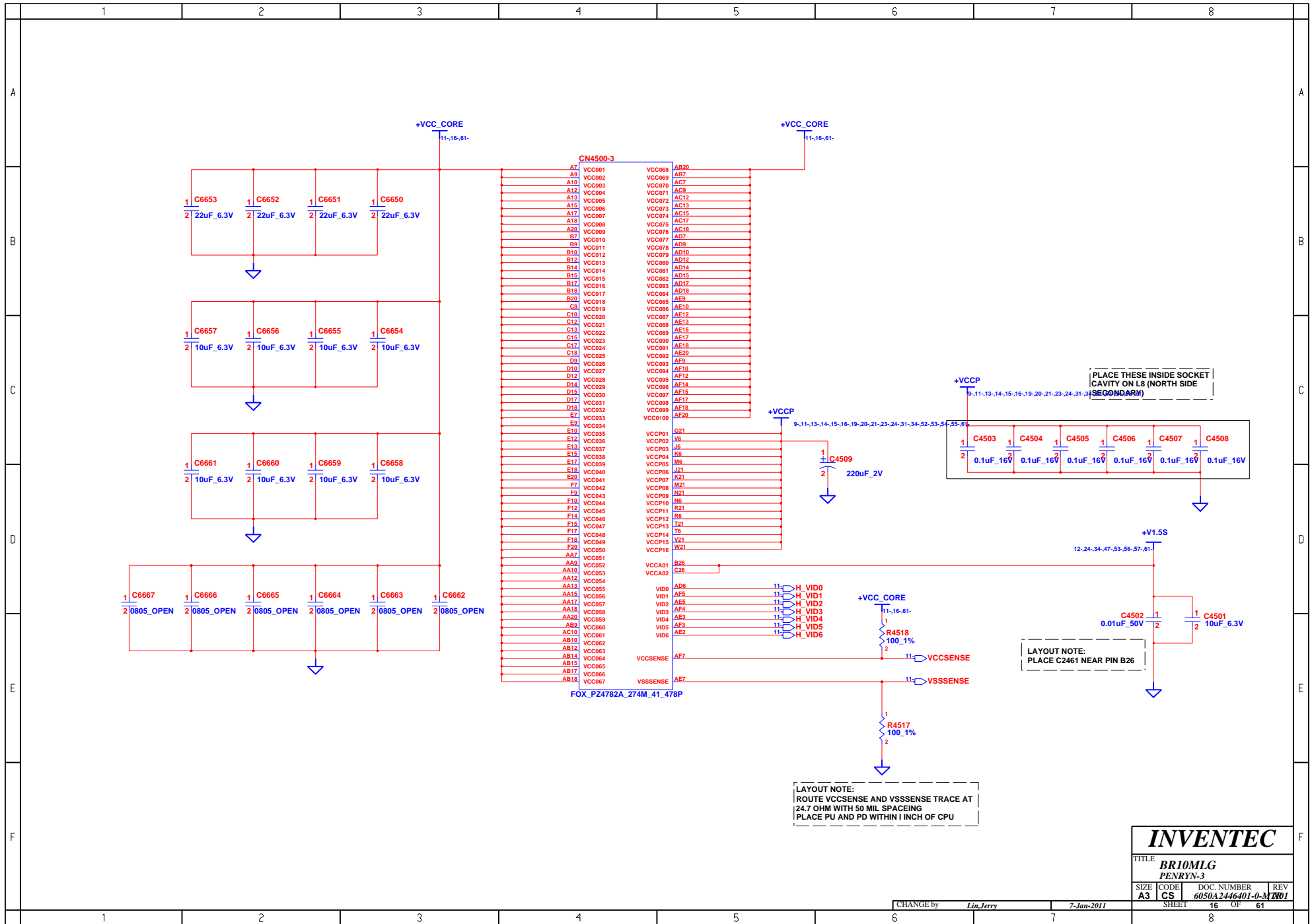
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SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV 001
CHANGE by <i>Lin, Jerry</i>		7-Jan-2011	
SHEET 12		OF 61	









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

CN4500-4

A4VSS001

A8VSS002

A11VSS003

A14VSS004

A16VSS005

A19VSS006

A23VSS007

AF2VSS008

B6VSS009

B8VSS010

B11VSS011

B13VSS012

B16VSS013

B19VSS014

B21VSS015

B24VSS016

C5VSS017

C8VSS018

C11VSS019

C14VSS020

C16VSS021

C19VSS022

C2VSS023

C22VSS024

C25VSS025

D1VSS026

D4VSS027

D8VSS028

D11VSS029

D13VSS030

D16VSS031

D19VSS032

D23VSS033

D26VSS034

E3VSS035

E6VSS036

E8VSS037

E11VSS038

E14VSS039

E16VSS040

E19VSS041

E21VSS042

E24VSS043

F5VSS044

F8VSS045

F11VSS046

F13VSS047

F16VSS048

F19VSS049

F2VSS050

F22VSS051

F25VSS052

G4VSS053

G1VSS054

G23VSS055

G26VSS056

H3VSS057

H6VSS058

H21VSS059

H24VSS060

J4VSS061

J5VSS062

J22VSS063

J25VSS064

K1VSS065

K4VSS066

K23VSS067

K26VSS068

L3VSS069

L6VSS070

L21VSS071

L24VSS072

M2VSS073

M5VSS074

M22VSS075

M25VSS076

N1VSS077

N4VSS078

N23VSS079

N26VSS080

P3VSS081

P6VSS082

P21VSS083

P24VSS084

R2VSS085

R5VSS086

R22VSS087

R25VSS088

T1VSS089

T4VSS090

T23VSS091

T26VSS092

U3VSS093

U6VSS094

U21VSS095

U24VSS096

V2VSS097

V5VSS098

V22VSS099

V25VSS100

W1VSS101

W4VSS102

W23VSS103

W26VSS104

Y3VSS105

Y6VSS106

Y21VSS107

Y24VSS108

AA2VSS109

AA5VSS110

AA8VSS111

AA11VSS112

AA14VSS113

AA16VSS114

AA19VSS115

AA22VSS116

AA25VSS117

AB1VSS118

AB4VSS119

AB8VSS120

AB11VSS121

AB13VSS122

AB16VSS123

AB18VSS124

AB23VSS125

AB26VSS126

AC3VSS127

AC6VSS128

AC8VSS129

AC11VSS130

AC14VSS131

AC16VSS132

AC19VSS133

AC21VSS134

AC24VSS135

AD2VSS136

AD5VSS137

AD8VSS138

AD11VSS139

AD13VSS140

AD16VSS141

AD19VSS142

AD22VSS143

AD25VSS144

AE1VSS145

AE4VSS146

AE8VSS147

AE11VSS148

AE14VSS149

AE16VSS150

AE19VSS151

AE23VSS152

AE26VSS153

A2VSS154

AF6VSS155

AF8VSS156

AF11VSS157

AF13VSS158

AF16VSS159

AF19VSS160

AF21VSS161

AF25VSS162

AF25VSS163

FOX_PZ4782A_274M_41_478P

INVENTEC

TITLE

BRI0MLG

PENRYN-4

SIZE

A3

CODE

CS

DOC. NUMBER

6050A2446401-0-M

REV

701

CHANGE by

Lin, Jerry

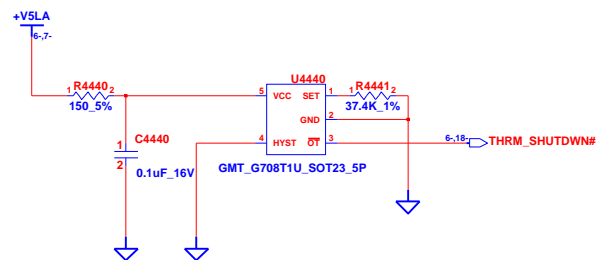
7-Jan-2011

SHEET

17

OF

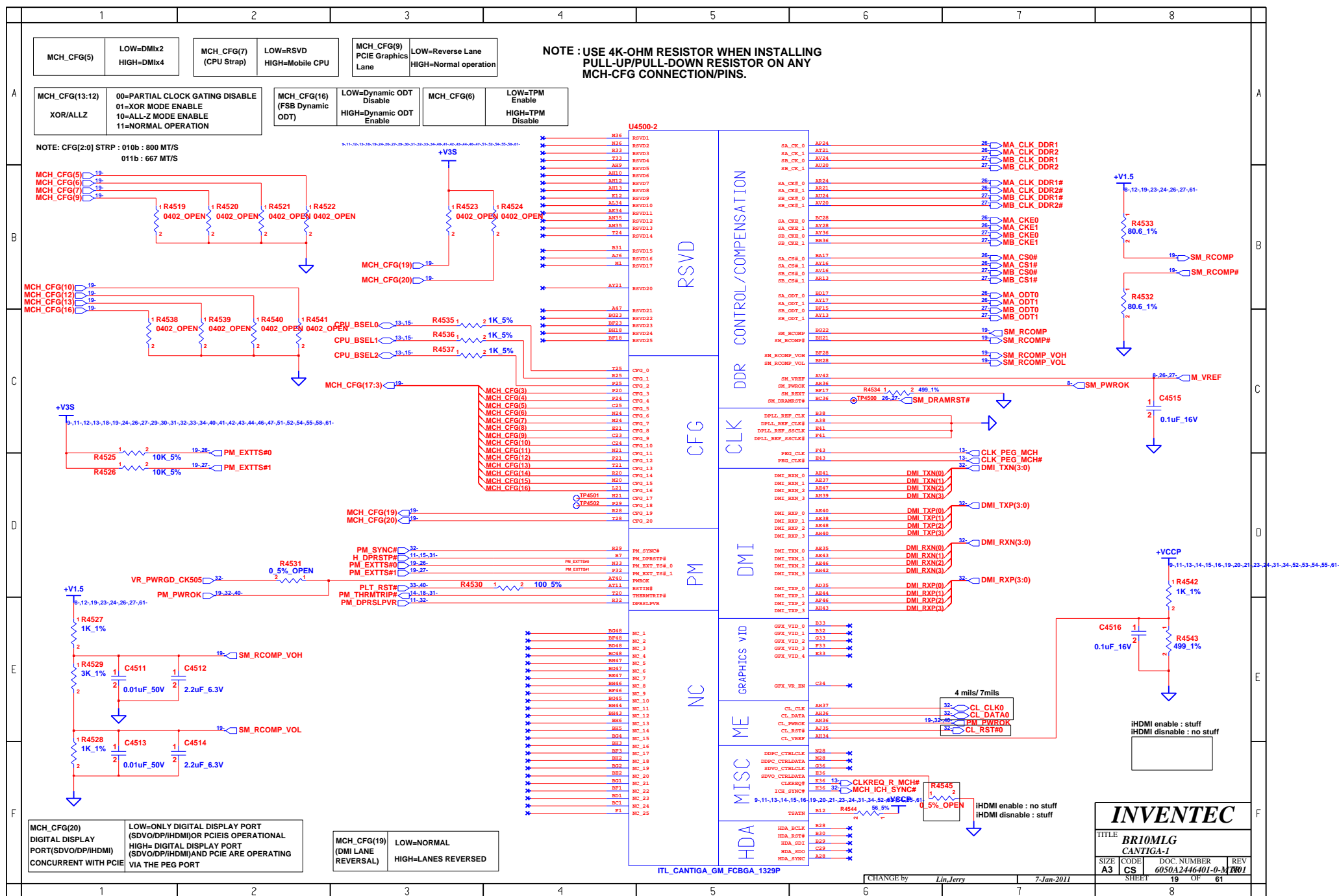
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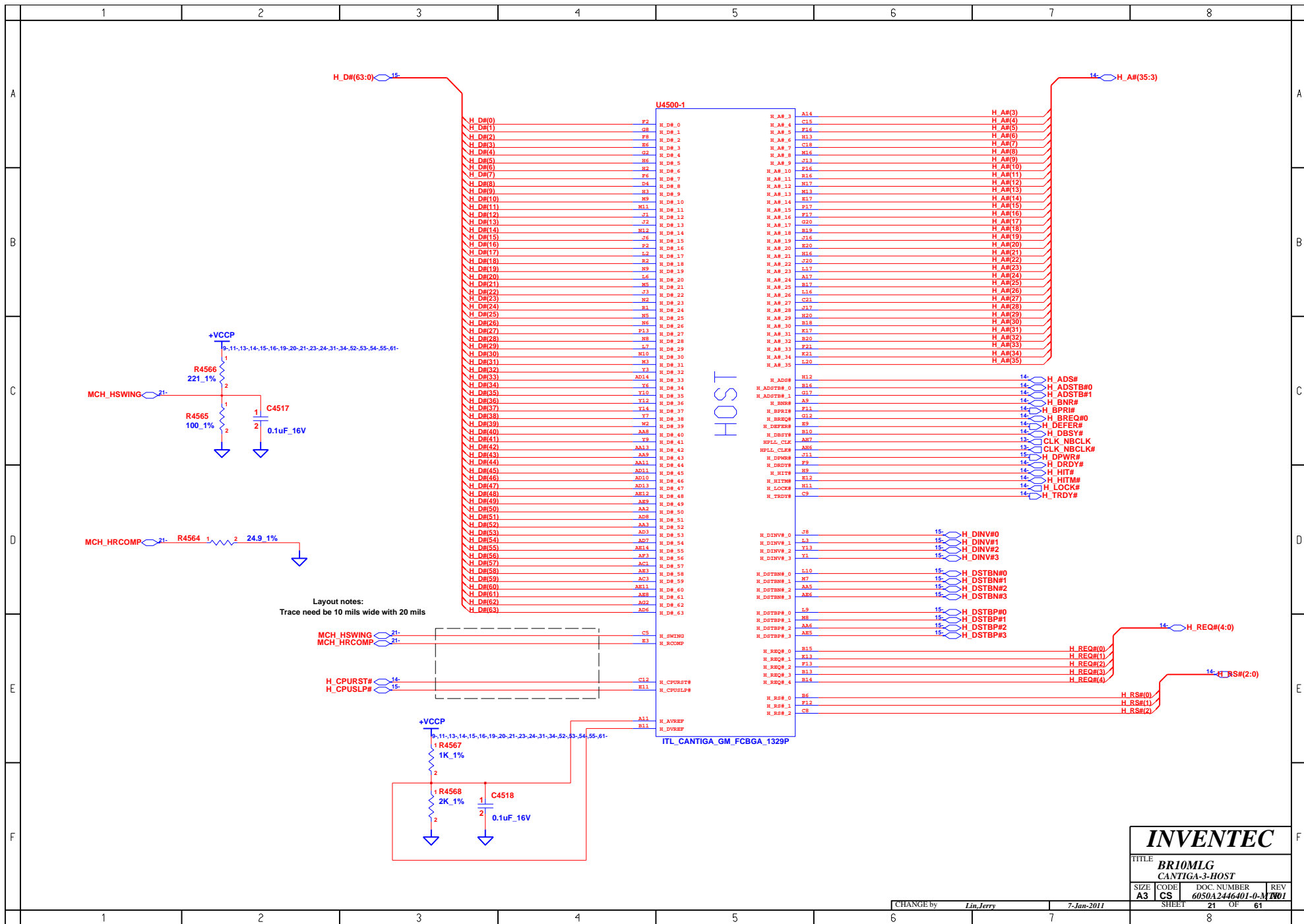

$$RSET=0.0012 \cdot T^2 - 0.9308 \cdot T + 96.147$$

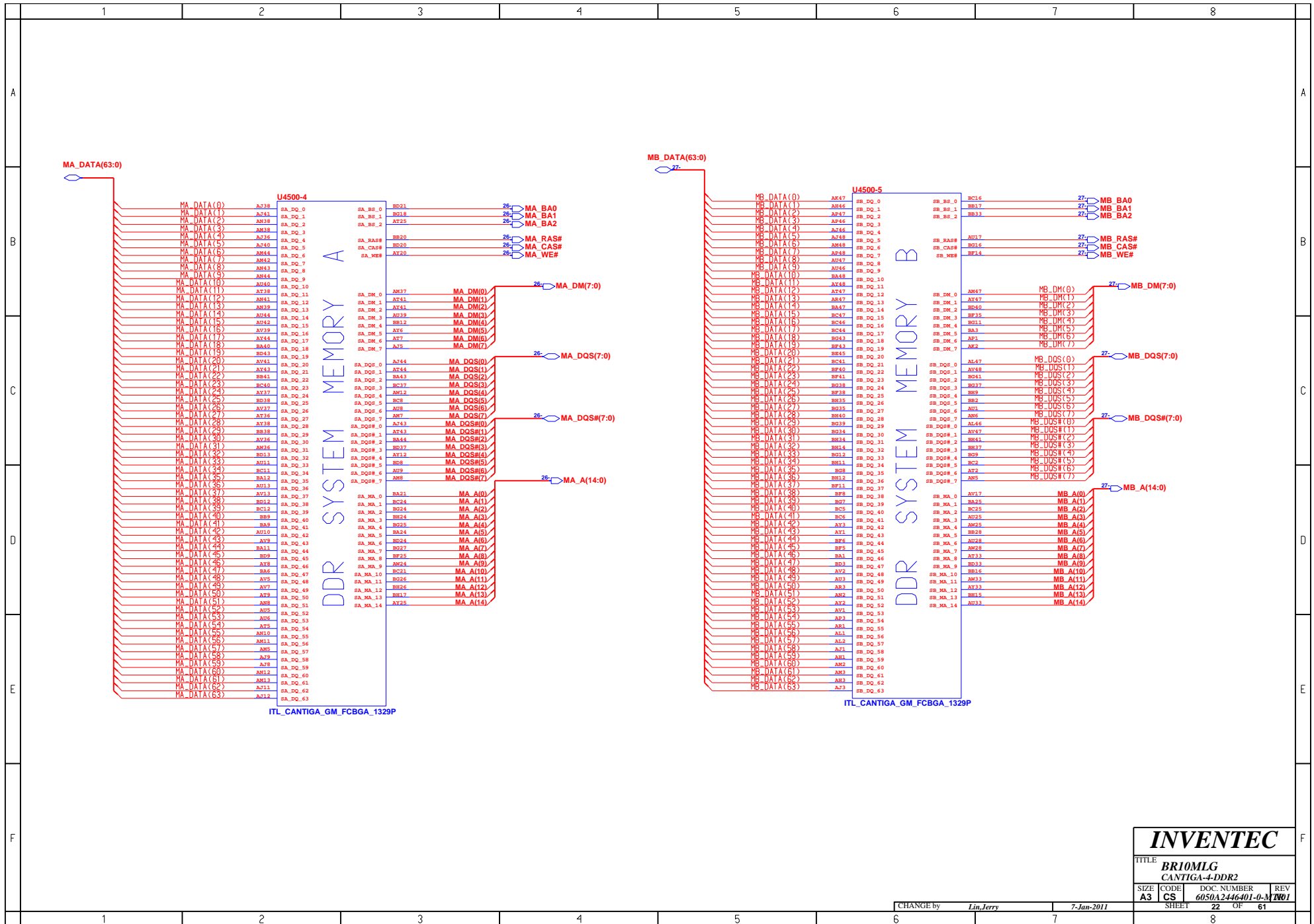
Hysteresis is 30C



CHANGE by	<i>Lin, Jerry</i>	<i>7-Jan-2011</i>
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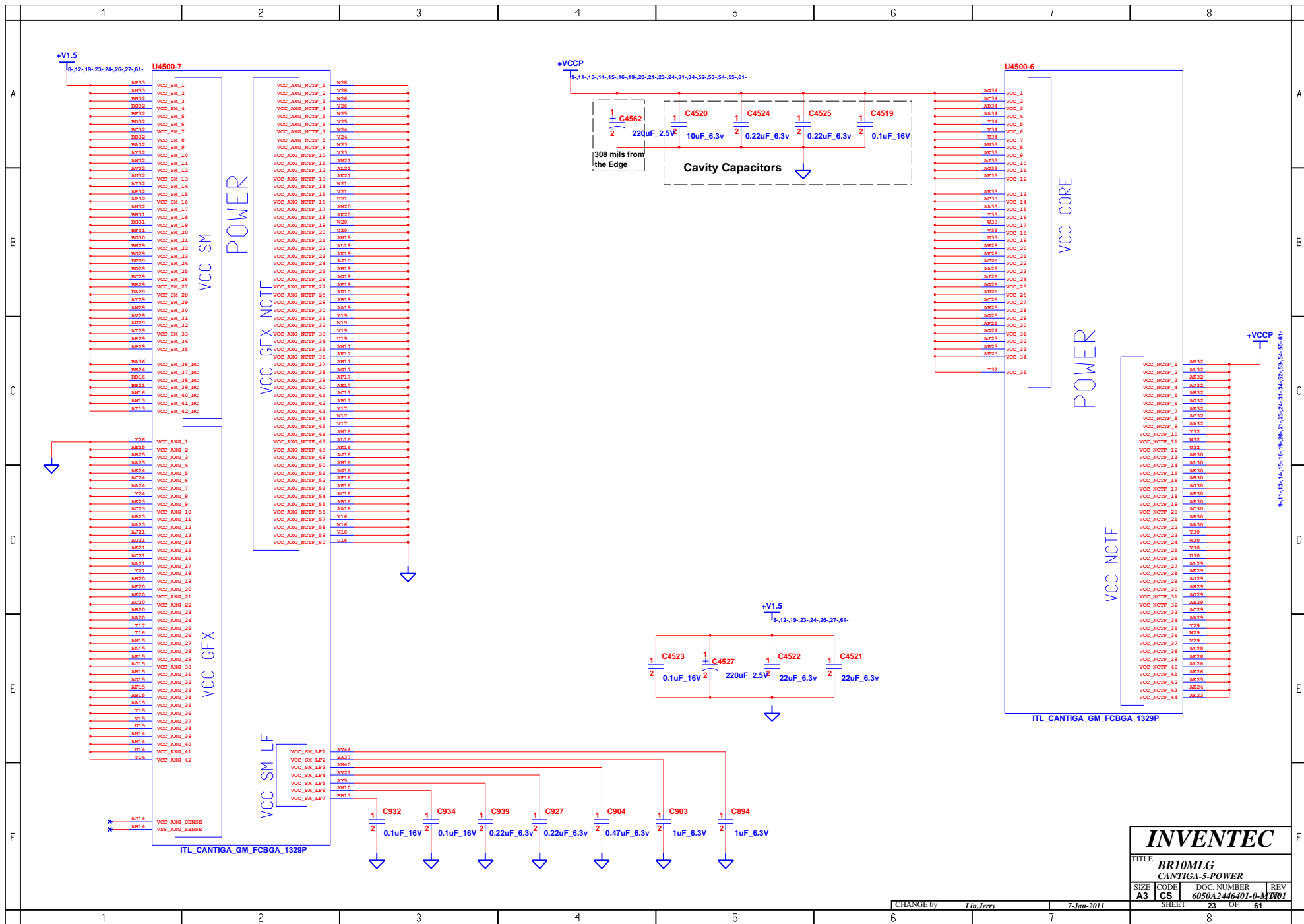






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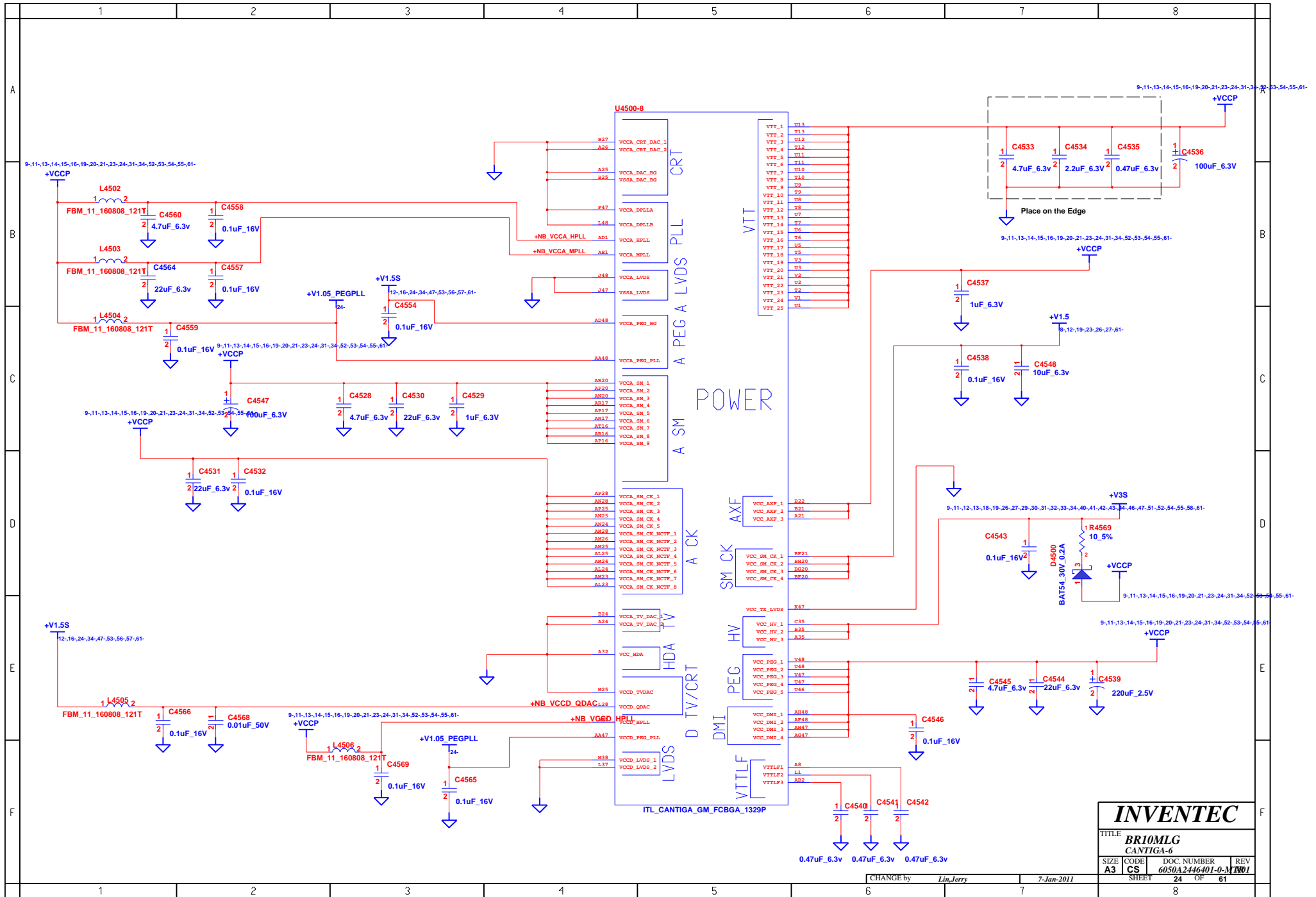
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SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 701
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET 22		OF 61	



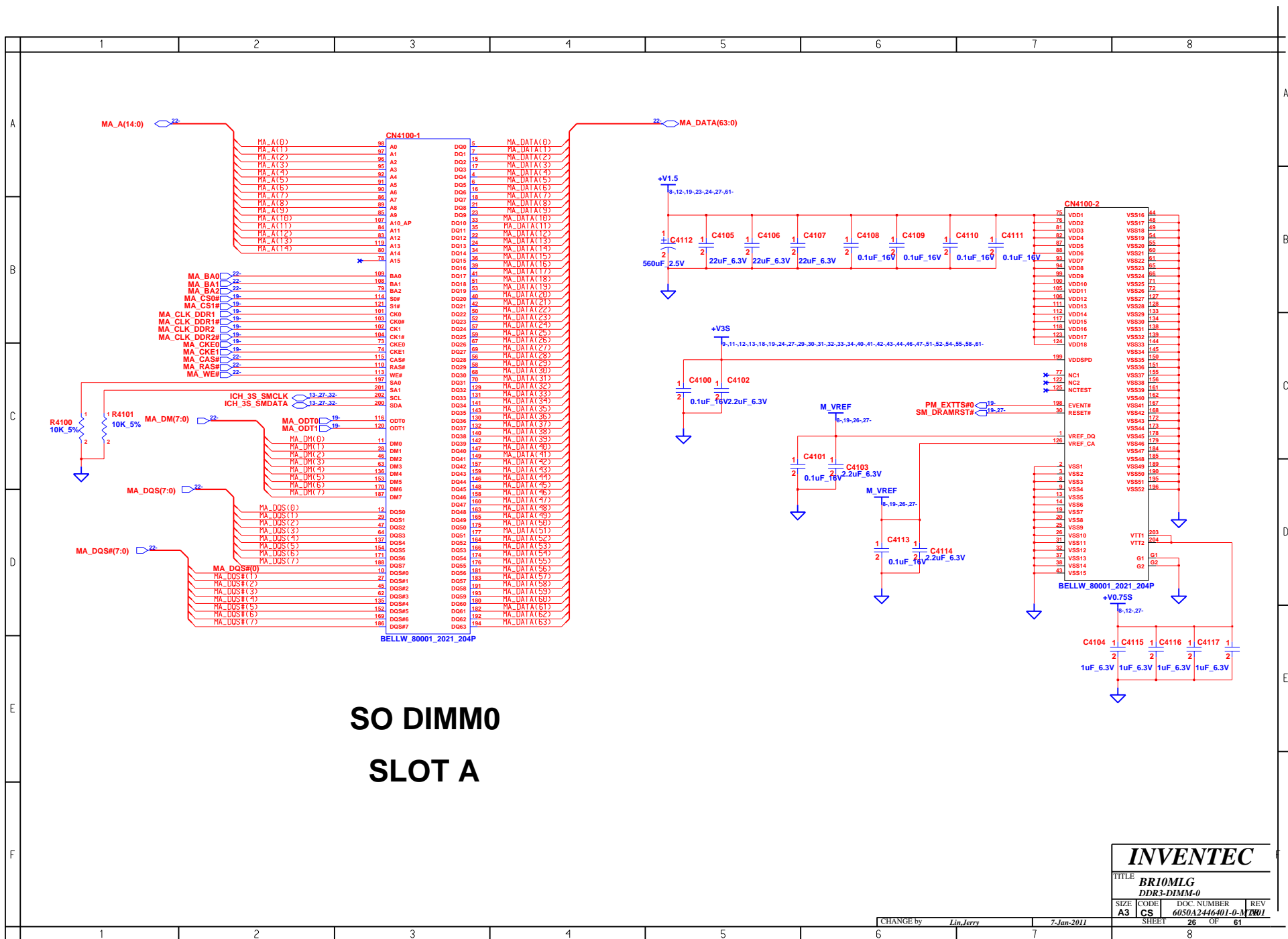
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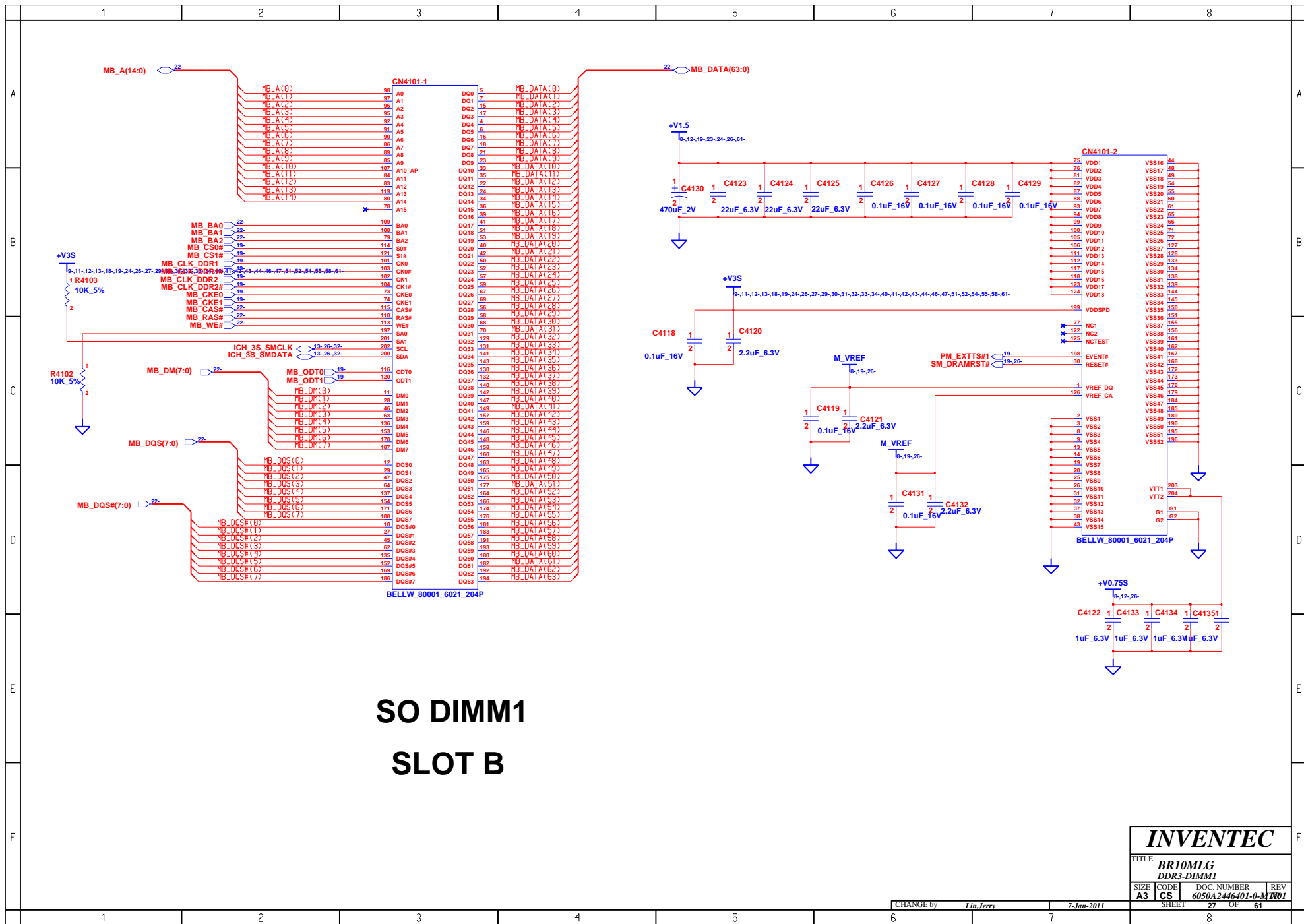
CHANGE by Lin Jerry 7-Jan-2011

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A		<p>U4500-9</p> <p>AP04 VSS.1 VSS.100 AP48 VSS.2 VSS.101 AL48 VSS.3 VSS.102 BR47 VSS.4 VSS.103 BR47 VSS.5 VSS.104 BR47 VSS.6 VSS.105 AT47 VSS.7 VSS.106 AP47 VSS.8 VSS.107 AP47 VSS.9 VSS.108 BR47 VSS.10 VSS.109 AT47 VSS.11 VSS.110 AT47 VSS.12 VSS.111 AT47 VSS.13 VSS.112 AT47 VSS.14 VSS.113 AT47 VSS.15 VSS.114 BR46 VSS.16 VSS.115 BR46 VSS.17 VSS.116 AT46 VSS.18 VSS.117 AT46 VSS.19 VSS.118 BR46 VSS.20 VSS.119 BR46 VSS.21 VSS.120 AT46 VSS.22 VSS.121 AT46 VSS.23 VSS.122 AT46 VSS.24 VSS.123 AT46 VSS.25 VSS.124 AT46 VSS.26 VSS.125 AT46 VSS.27 VSS.126 BR46 VSS.28 VSS.127 BR46 VSS.29 VSS.128 BR46 VSS.30 VSS.129 AT46 VSS.31 VSS.130 AT46 VSS.32 VSS.131 AT46 VSS.33 VSS.132 AT46 VSS.34 VSS.133 AT46 VSS.35 VSS.134 BR46 VSS.36 VSS.135 AT46 VSS.37 VSS.136 AT46 VSS.38 VSS.137 BR46 VSS.39 VSS.138 AT46 VSS.40 VSS.139 AT46 VSS.41 VSS.140 BR46 VSS.42 VSS.141 AT46 VSS.43 VSS.142 AT46 VSS.44 VSS.143 BR46 VSS.45 VSS.144 AT46 VSS.46 VSS.145 BR46 VSS.47 VSS.146 AT46 VSS.48 VSS.147 AT46 VSS.49 VSS.148 BR46 VSS.50 VSS.149 AT46 VSS.51 VSS.150 BR46 VSS.52 VSS.151 BR46 VSS.53 VSS.152 AT46 VSS.54 VSS.153 BR46 VSS.55 VSS.154 AT46 VSS.56 VSS.155 AT46 VSS.57 VSS.156 AT46 VSS.58 VSS.157 BR46 VSS.59 VSS.158 AT46 VSS.60 VSS.159 BR46 VSS.61 VSS.160 BR46 VSS.62 VSS.161 BR46 VSS.63 VSS.162 AT46 VSS.64 VSS.163 BR46 VSS.65 VSS.164 BR46 VSS.66 VSS.165 BR46 VSS.67 VSS.166 AT46 VSS.68 VSS.167 BR46 VSS.69 VSS.168 AT46 VSS.70 VSS.169 BR46 VSS.71 VSS.170 BR46 VSS.72 VSS.171 AT46 VSS.73 VSS.172 BR46 VSS.74 VSS.173 BR46 VSS.75 VSS.174 BR46 VSS.76 VSS.175 BR46 VSS.77 VSS.176 BR46 VSS.78 VSS.177 BR46 VSS.79 VSS.178 BR46 VSS.80 VSS.179 BR46 VSS.81 VSS.180 AT46 VSS.82 VSS.181 AT46 VSS.83 VSS.182 AT46 VSS.84 VSS.183 AT46 VSS.85 VSS.184 AT46 VSS.86 VSS.185 AT46 VSS.87 VSS.186 BR46 VSS.88 VSS.187 BR46 VSS.89 VSS.188 BR46 VSS.90 VSS.189 AT46 VSS.91 VSS.190 AT46 VSS.92 VSS.191 AT46 VSS.93 VSS.192 BR46 VSS.94 VSS.193 AT46 VSS.95 VSS.194 BR46 VSS.96 VSS.195 BR46 VSS.97 VSS.196 AT46 VSS.98 VSS.197 AT46 VSS.99 VSS.198</p> <p>ITL_CANTIGA_GM_FCBGA_1329P</p>	<p>U4500-10</p> <p>BR21 VSS.199 L12 VSS.200 BR21 VSS.201 BR21 VSS.202 BR21 VSS.203 BR21 VSS.204 BR21 VSS.205 BR21 VSS.206 BR21 VSS.207 BR21 VSS.208 BR21 VSS.209 BR21 VSS.210 BR21 VSS.211 BR21 VSS.212 BR21 VSS.213 BR21 VSS.214 BR21 VSS.215 BR21 VSS.216 BR21 VSS.217 BR21 VSS.218 BR21 VSS.219 BR21 VSS.220 BR21 VSS.221 BR21 VSS.222 BR21 VSS.223 BR21 VSS.224 BR21 VSS.225 BR21 VSS.226 BR21 VSS.227 BR21 VSS.228 BR21 VSS.229 BR21 VSS.230 BR21 VSS.231 BR21 VSS.232 BR21 VSS.233 BR21 VSS.234 BR21 VSS.235 BR21 VSS.236 BR21 VSS.237 BR21 VSS.238 BR21 VSS.239 BR21 VSS.240 BR21 VSS.241 BR21 VSS.242 BR21 VSS.243 BR21 VSS.244 BR21 VSS.245 BR21 VSS.246 BR21 VSS.247 BR21 VSS.248 BR21 VSS.249 BR21 VSS.250 BR21 VSS.251 BR21 VSS.252 BR21 VSS.253 BR21 VSS.254 BR21 VSS.255 BR21 VSS.256 BR21 VSS.257 BR21 VSS.258 BR21 VSS.259 BR21 VSS.260 BR21 VSS.261 BR21 VSS.262 BR21 VSS.263 BR21 VSS.264 BR21 VSS.265 BR21 VSS.266 BR21 VSS.267 BR21 VSS.268 BR21 VSS.269 BR21 VSS.270 BR21 VSS.271 BR21 VSS.272 BR21 VSS.273 BR21 VSS.274 BR21 VSS.275 BR21 VSS.276 BR21 VSS.277 BR21 VSS.278 BR21 VSS.279 BR21 VSS.280 BR21 VSS.281 BR21 VSS.282 BR21 VSS.283 BR21 VSS.284 BR21 VSS.285 BR21 VSS.286 BR21 VSS.287 BR21 VSS.288 BR21 VSS.289 BR21 VSS.290 BR21 VSS.291 BR21 VSS.292 BR21 VSS.293 BR21 VSS.294 BR21 VSS.295 BR21 VSS.296</p> <p>ITL_CANTIGA_GM_FCBGA_1329P</p>	<p>U4500-11</p> <p>BR21 VSS.297 BR21 VSS.298 BR21 VSS.299 BR21 VSS.300 BR21 VSS.301 BR21 VSS.302 BR21 VSS.303 BR21 VSS.304 BR21 VSS.305 BR21 VSS.306 BR21 VSS.307 BR21 VSS.308 BR21 VSS.309 BR21 VSS.310 BR21 VSS.311 BR21 VSS.312 BR21 VSS.313 BR21 VSS.314 BR21 VSS.315 BR21 VSS.316 BR21 VSS.317 BR21 VSS.318 BR21 VSS.319 BR21 VSS.320 BR21 VSS.321 BR21 VSS.322 BR21 VSS.323 BR21 VSS.324 BR21 VSS.325 BR21 VSS.326 BR21 VSS.327 BR21 VSS.328 BR21 VSS.329 BR21 VSS.330 BR21 VSS.331 BR21 VSS.332 BR21 VSS.333 BR21 VSS.334 BR21 VSS.335 BR21 VSS.336 BR21 VSS.337 BR21 VSS.338 BR21 VSS.339 BR21 VSS.340 BR21 VSS.341 BR21 VSS.342 BR21 VSS.343 BR21 VSS.344 BR21 VSS.345 BR21 VSS.346 BR21 VSS.347 BR21 VSS.348 BR21 VSS.349 BR21 VSS.350 BR21 VSS.351 BR21 VSS.352 BR21 VSS.353 BR21 VSS.354 BR21 VSS.355 BR21 VSS.356 BR21 VSS.357 BR21 VSS.358 BR21 VSS.359 BR21 VSS.360 BR21 VSS.361 BR21 VSS.362 BR21 VSS.363 BR21 VSS.364 BR21 VSS.365 BR21 VSS.366 BR21 VSS.367 BR21 VSS.368 BR21 VSS.369 BR21 VSS.370 BR21 VSS.371 BR21 VSS.372 BR21 VSS.373 BR21 VSS.374 BR21 VSS.375 BR21 VSS.376 BR21 VSS.377 BR21 VSS.378 BR21 VSS.379 BR21 VSS.380 BR21 VSS.381 BR21 VSS.382 BR21 VSS.383 BR21 VSS.384 BR21 VSS.385 BR21 VSS.386 BR21 VSS.387 BR21 VSS.388 BR21 VSS.389 BR21 VSS.390 BR21 VSS.391 BR21 VSS.392 BR21 VSS.393 BR21 VSS.394 BR21 VSS.395 BR21 VSS.396 BR21 VSS.397 BR21 VSS.398 BR21 VSS.399 BR21 VSS.400</p>	<p>U4500-12</p> <p>BR21 VSS.401 BR21 VSS.402 BR21 VSS.403 BR21 VSS.404 BR21 V</p>			





SO DIMM1
SLOT B

INVENTEC

TITLE
BRI0MLG
DDR3-DIMM1

SIZE	CODE	DOC. NUMBER	REV
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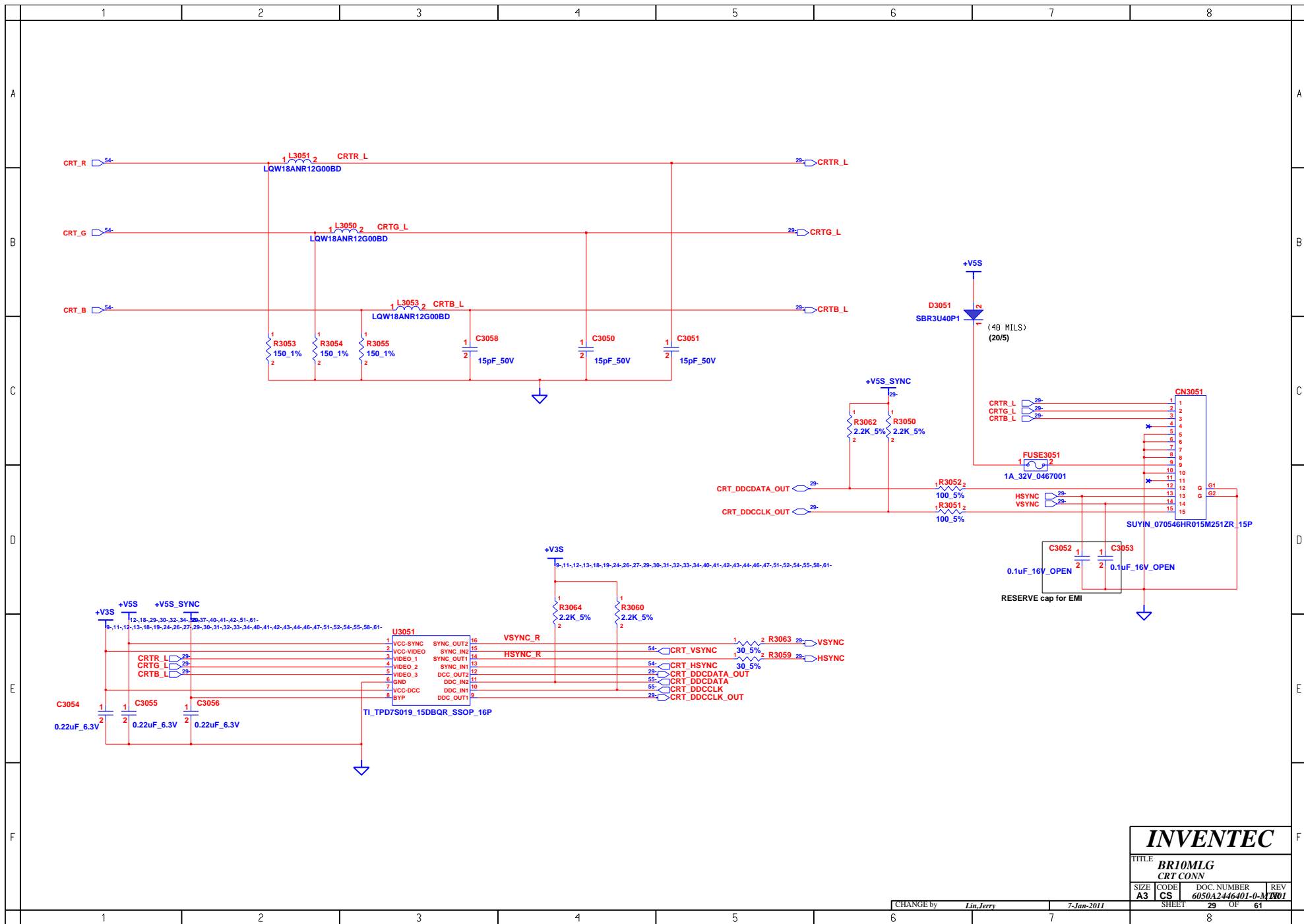
CHANGE by Lin Jerry 7-Jan-2011

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A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE BR10MLG BLANK			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV B01
SHEET		28	OF 61

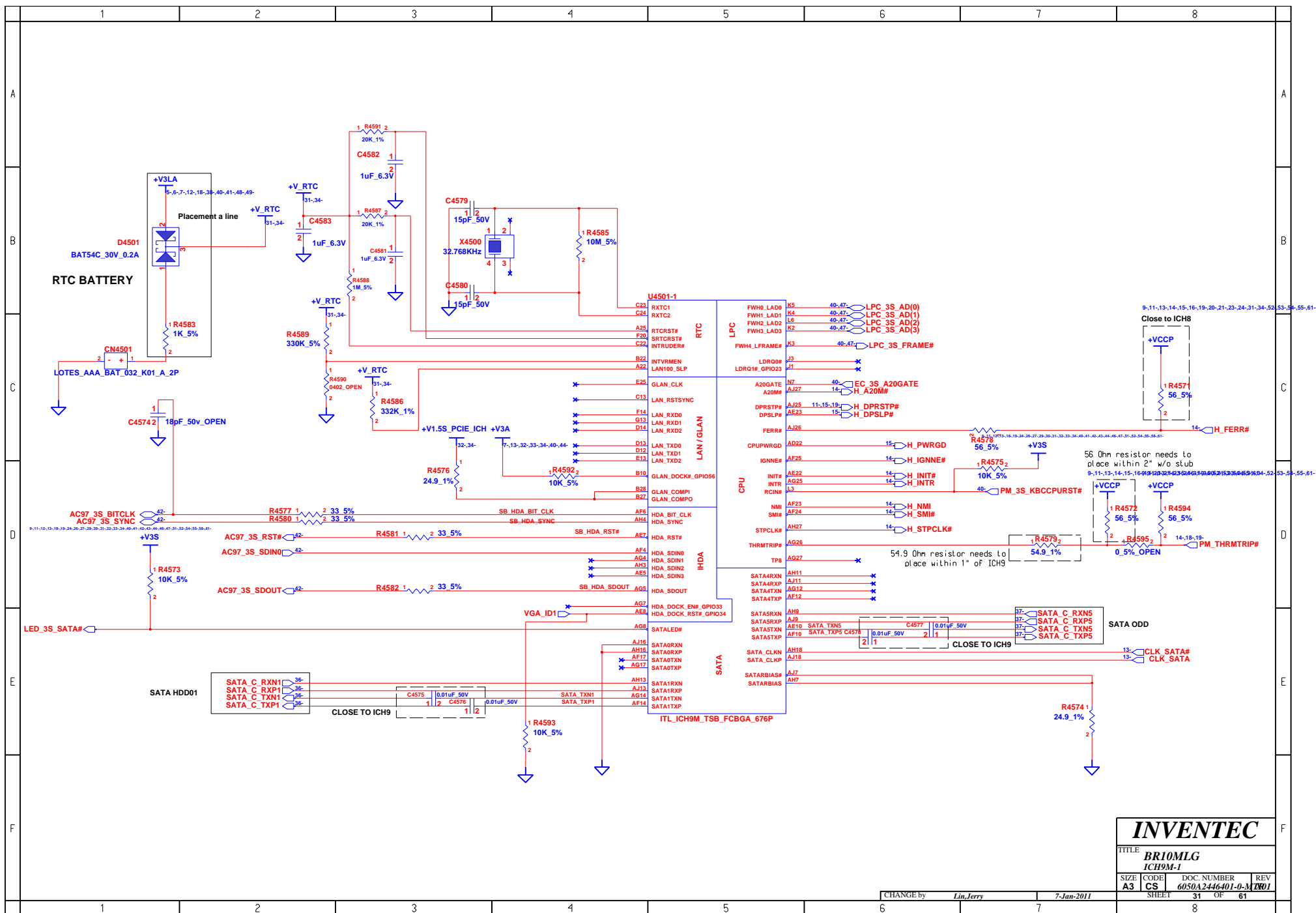
CHANGE by Lin, Jerry 27-Sep-2003

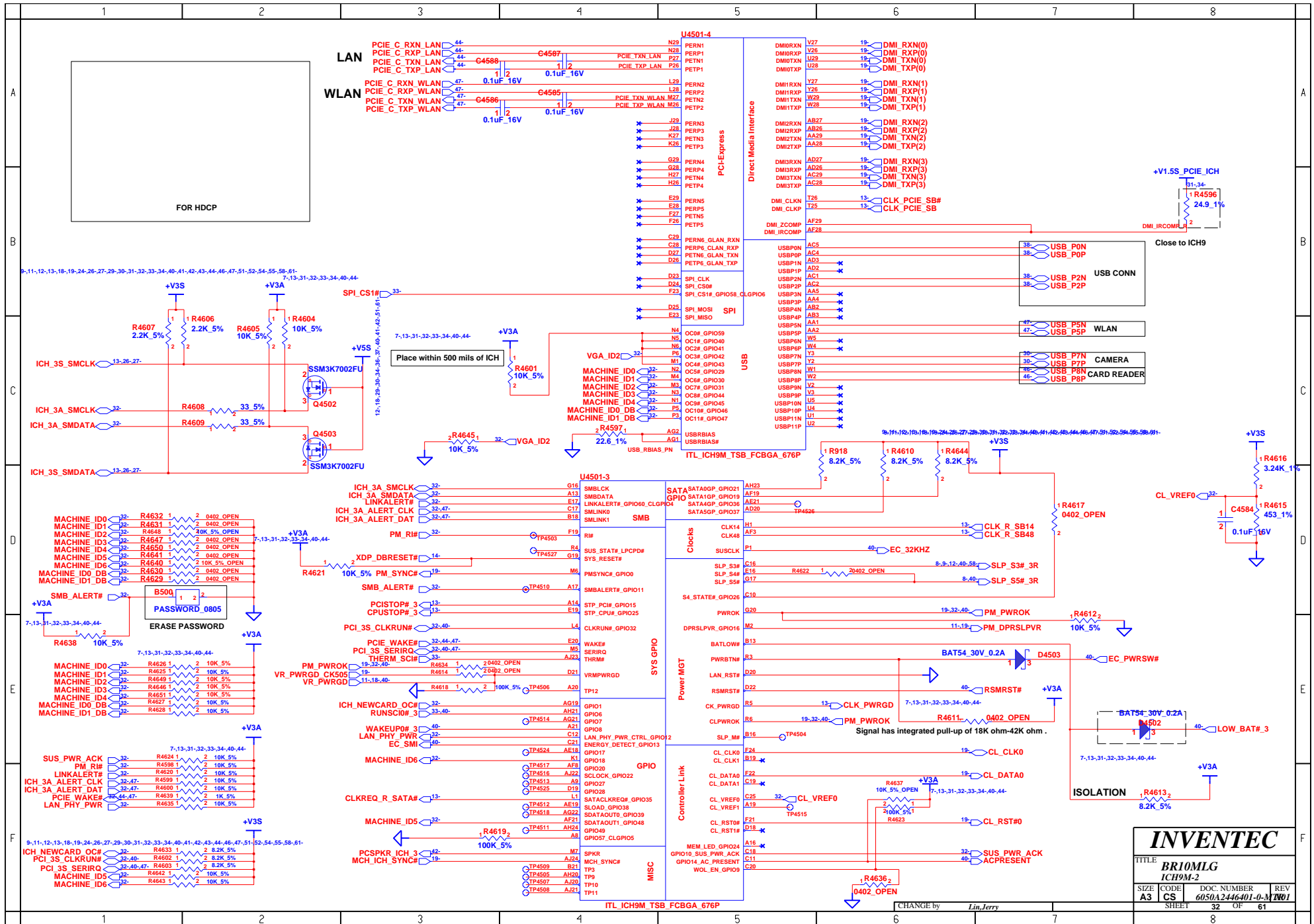


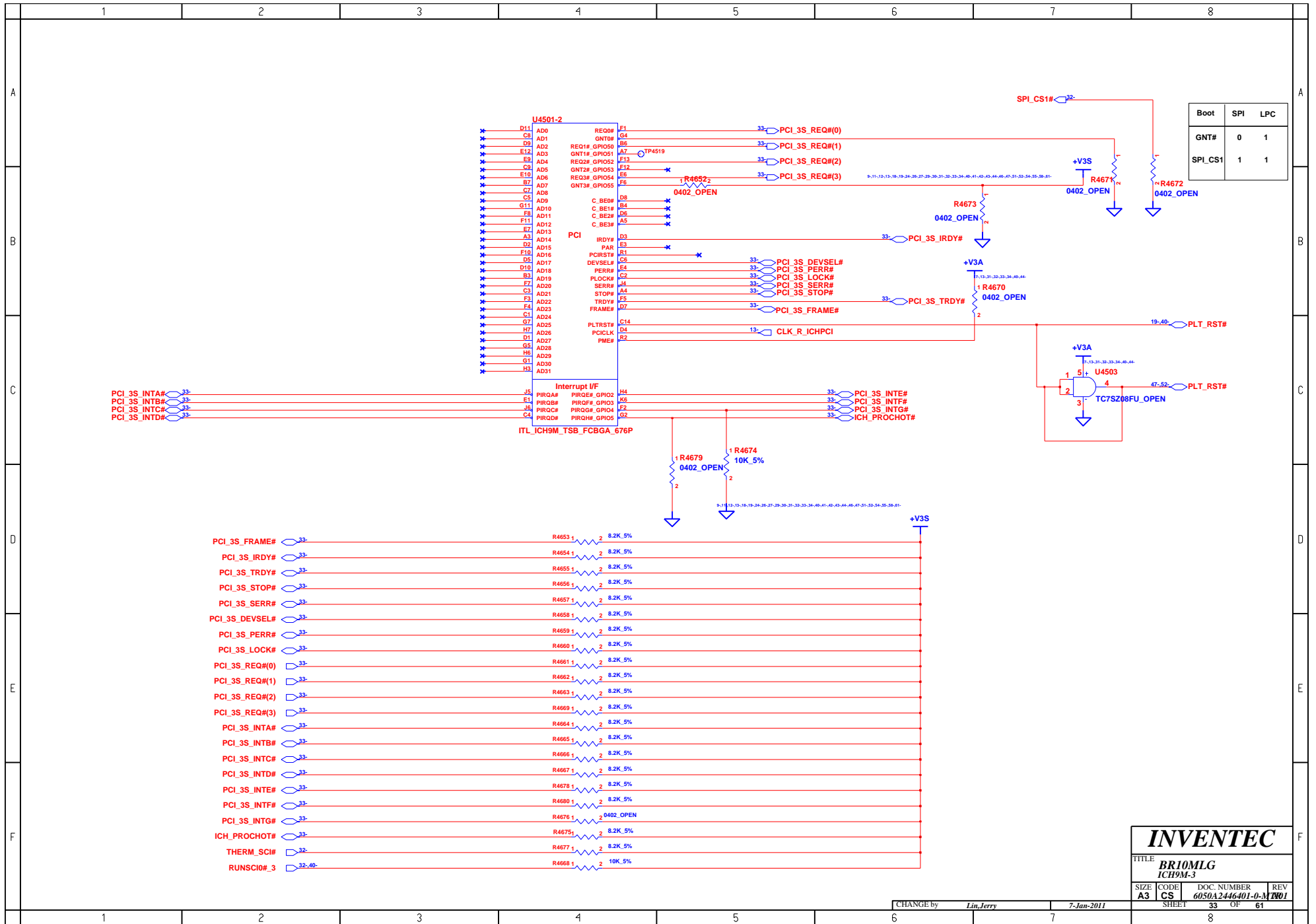
INVENTEC

TITLE		
BRI0MLG		
CRT CONN		
SIZE	CODE	DOC. NUMBER
A3	CS	6050A2446401-0-M
SHEET		REV
29		61

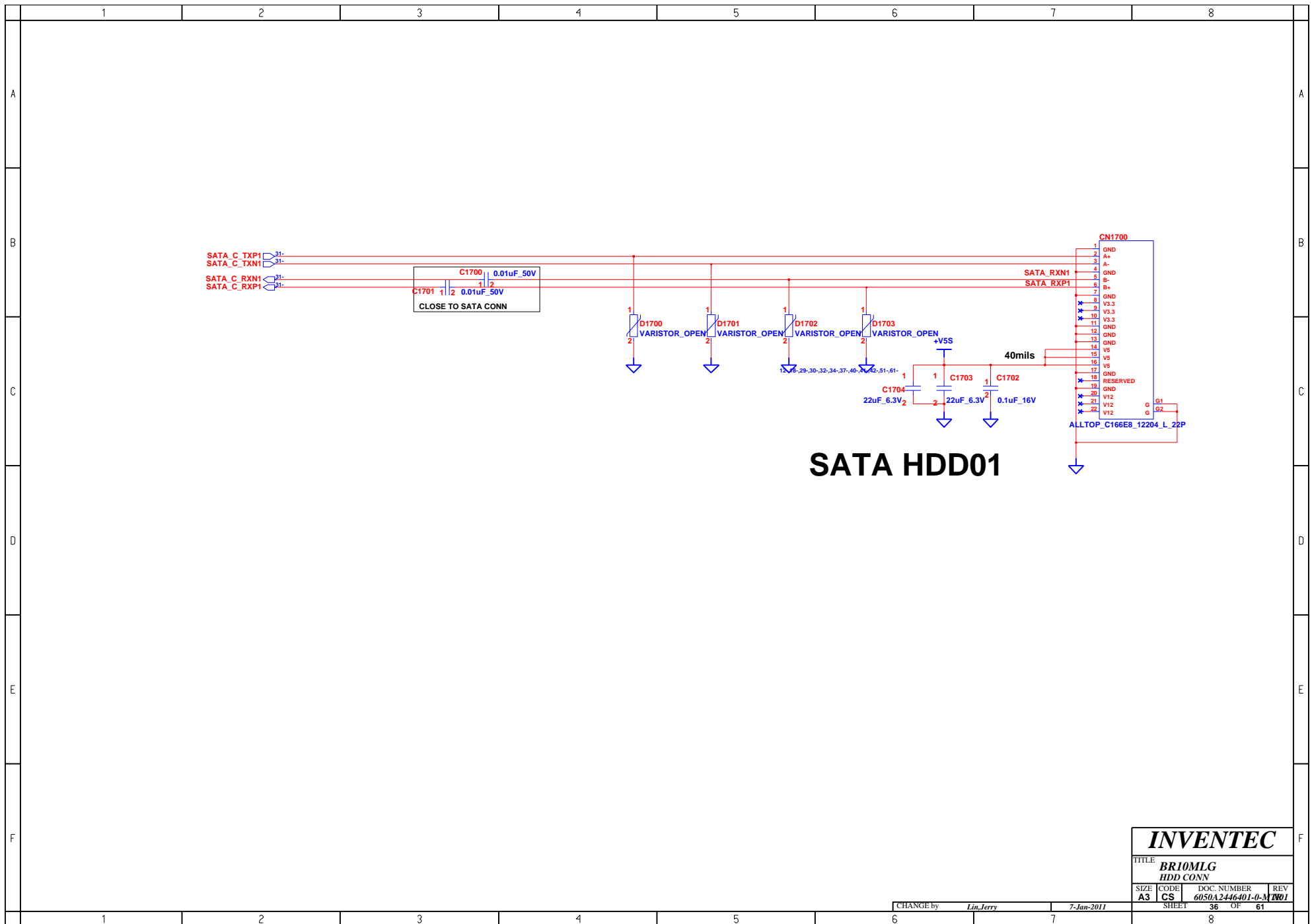
CHANGE by Lin Jerry 7-Jan-2011

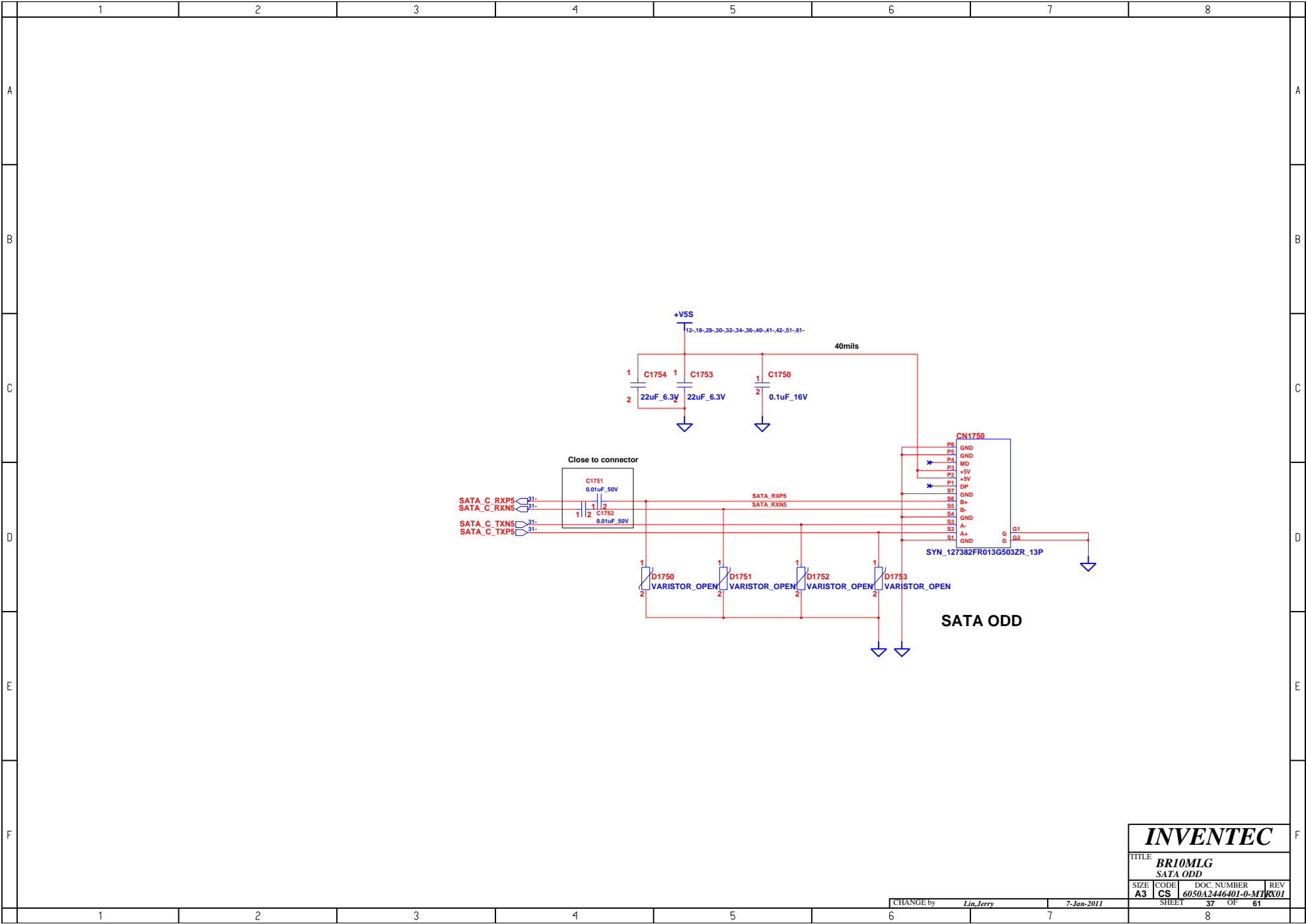






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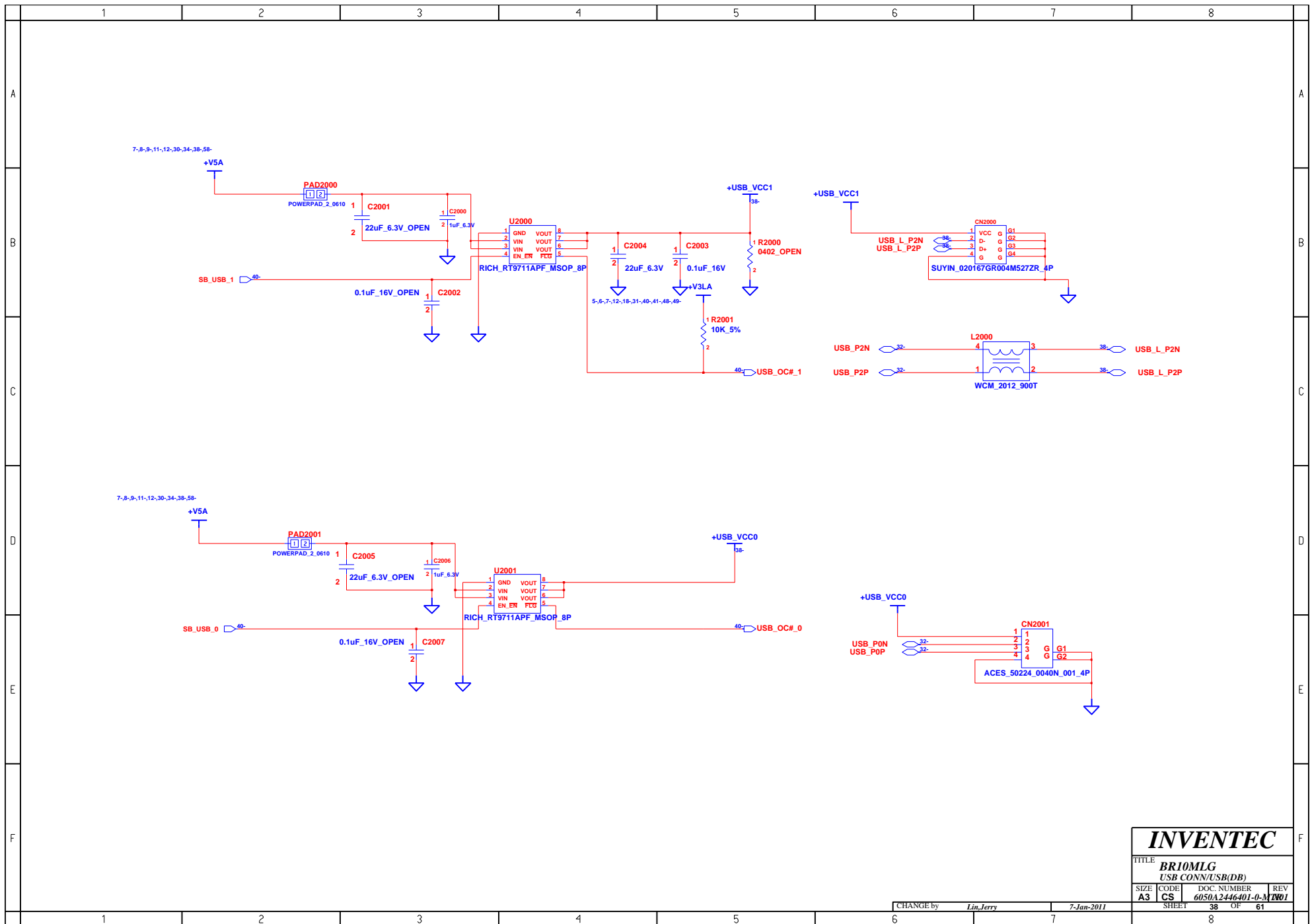
INVENTEC

TITLE
BRI0MLG
SATA ODD

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-MT	R001

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37	61

CHANGE by Lin, Jerry 7-Jan-2011



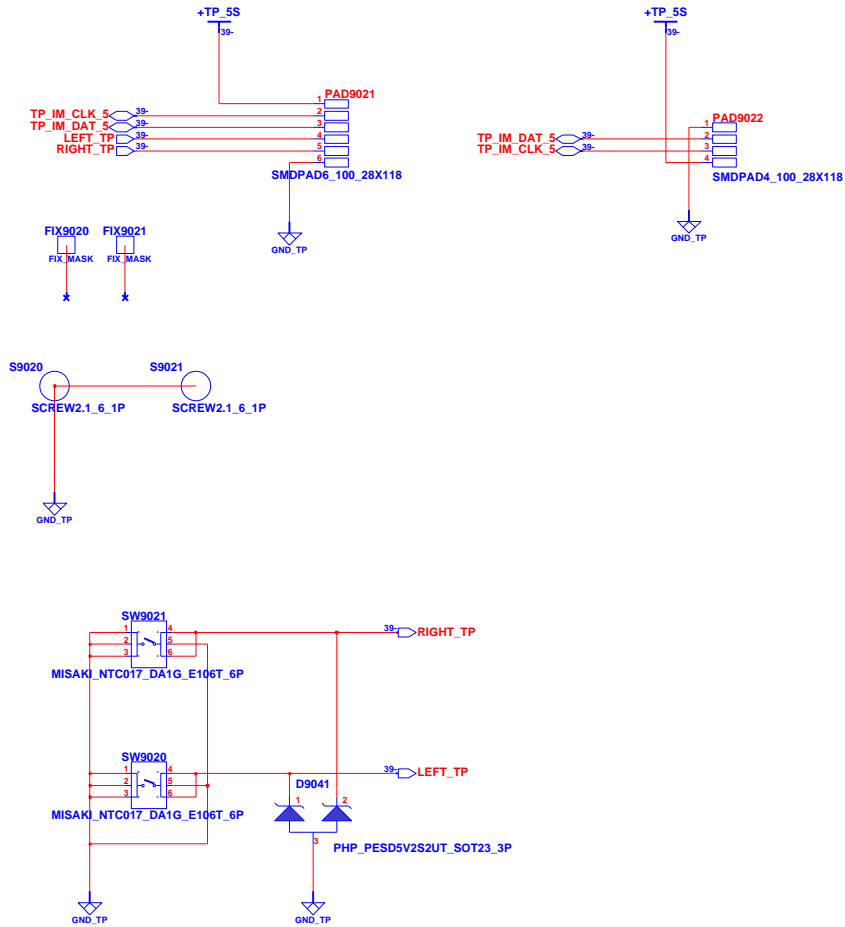
INVENTEC			
TITLE BRI0MLG USB CONN/USB(DB)			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV 1
SHEET 38 OF 61			

CHANGE by	Lin.Jerry	7-Jan-2011
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TOUCHPAD SWITCH BOARD

Connect to Touchpad Module

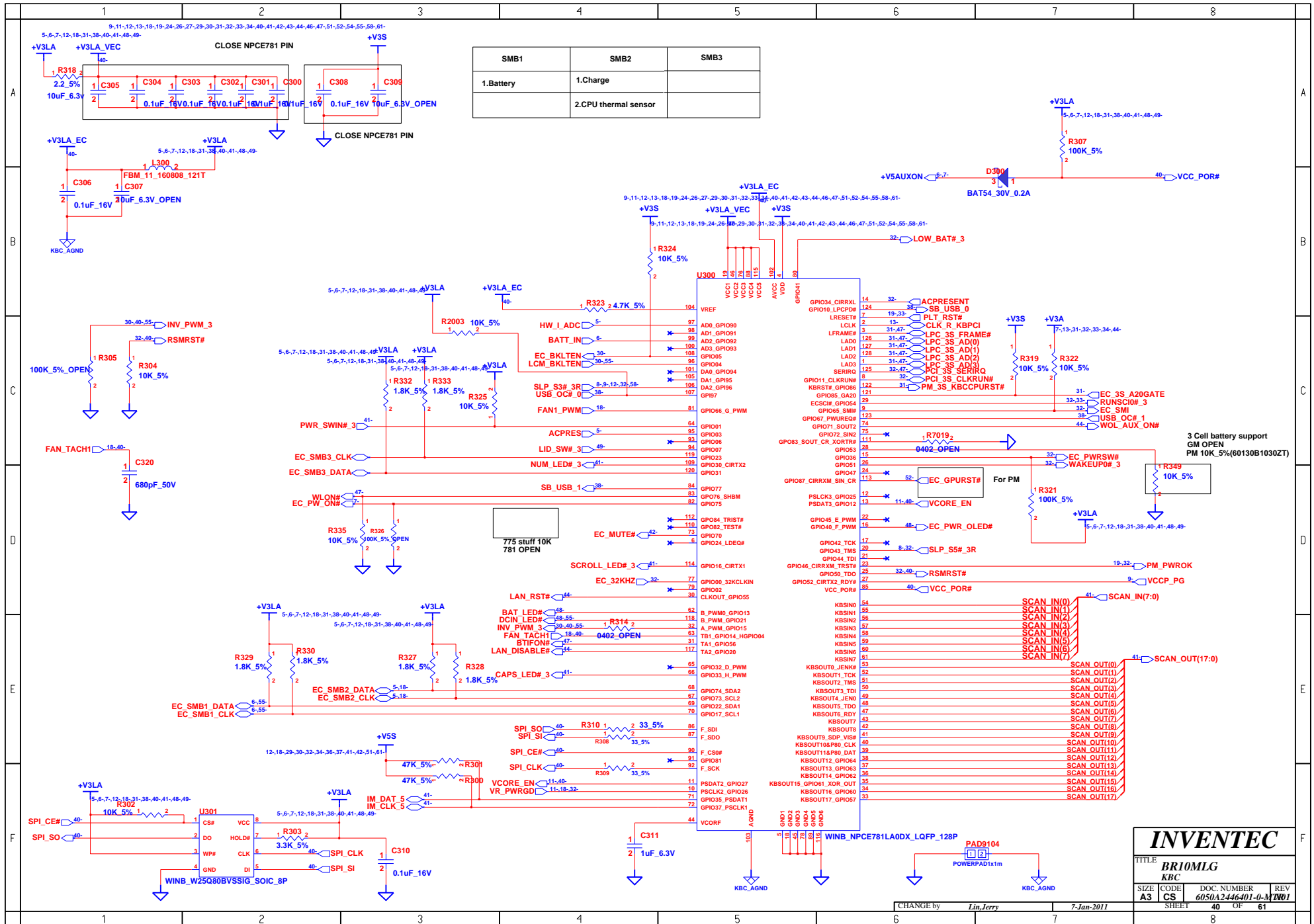
Connect to Mainboard's TP connector

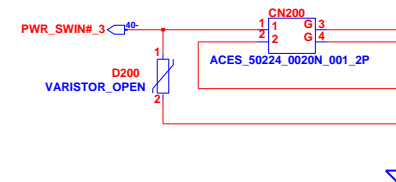
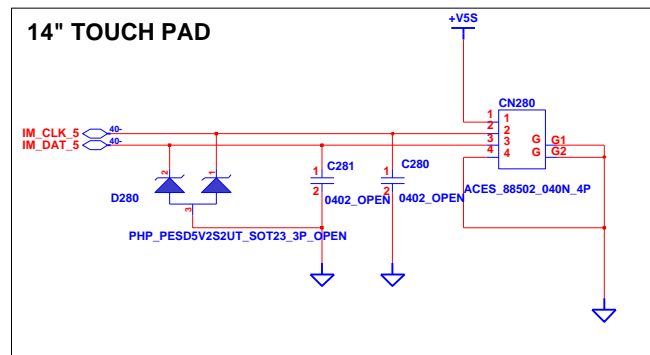
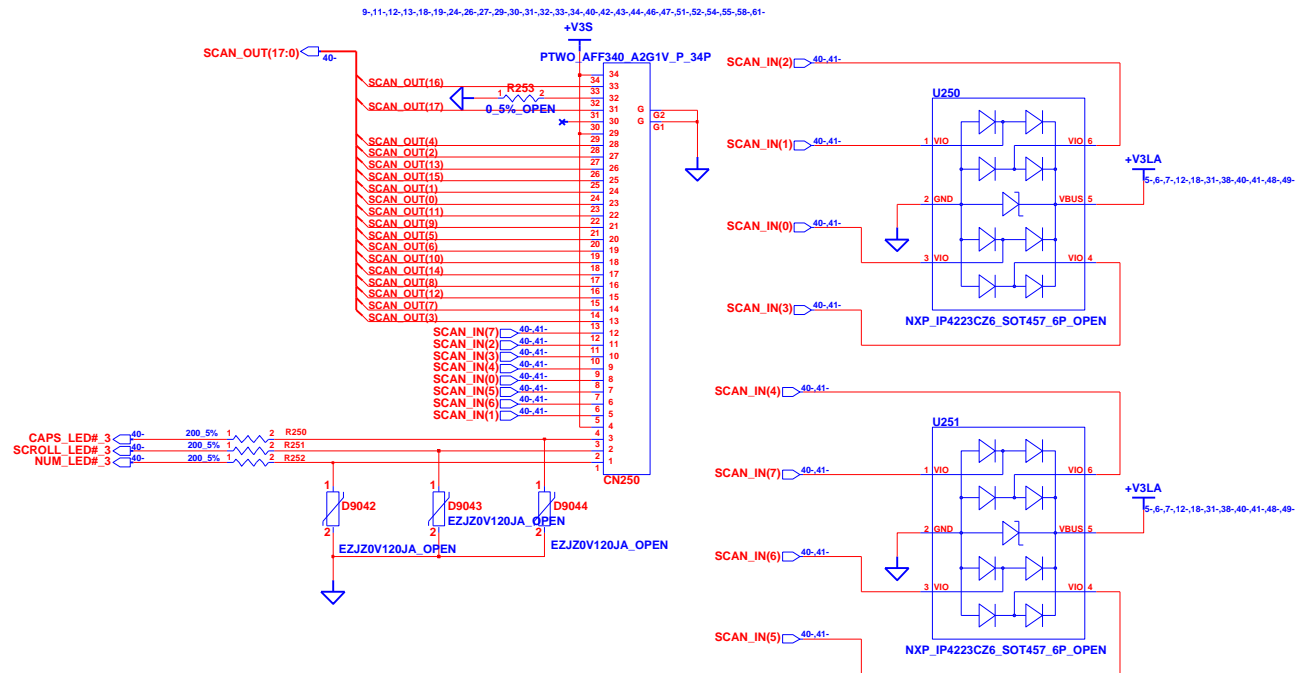


INVENTEC

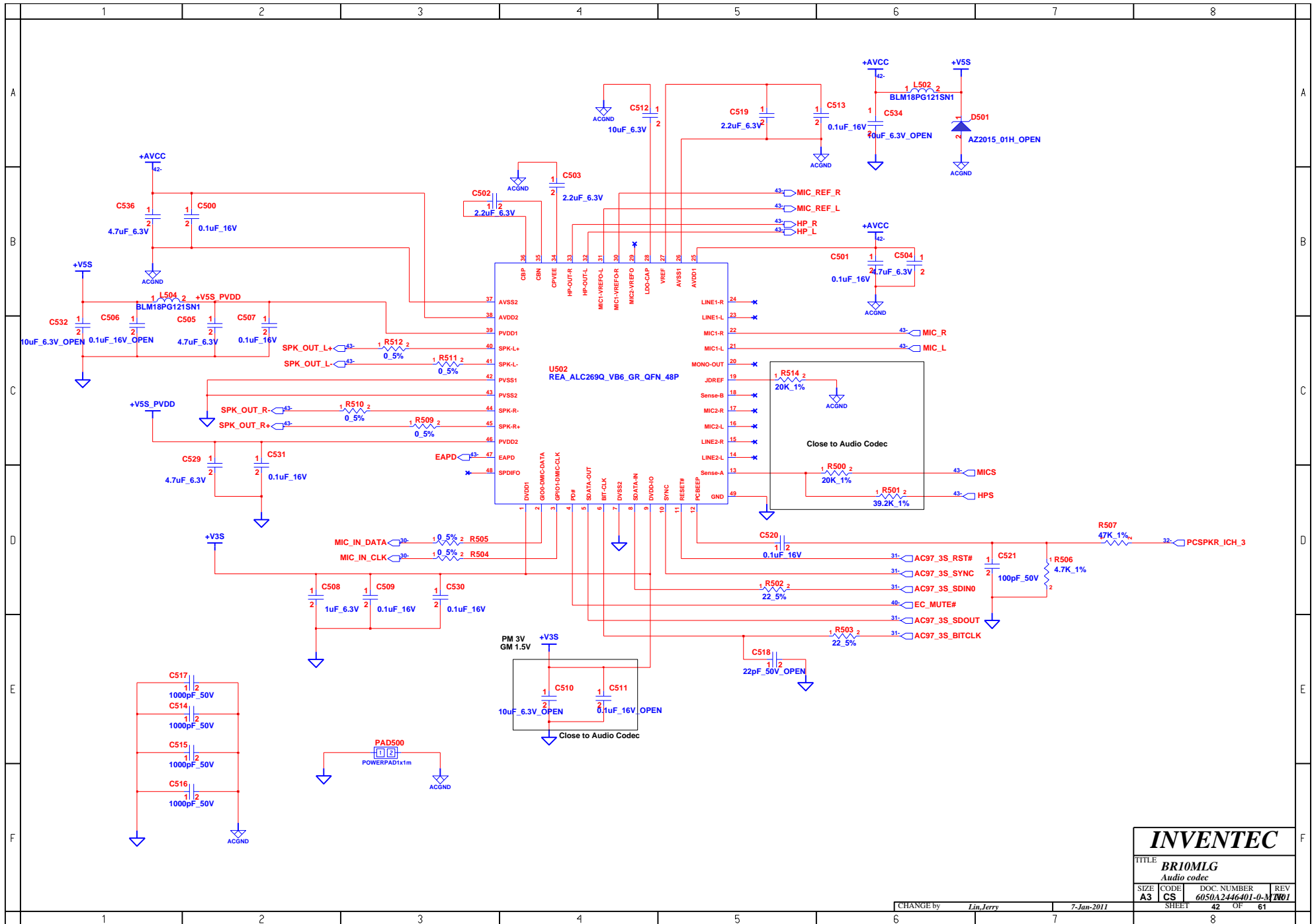
TITLE BR10MLG TOUCHPAD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 001
SHEET		39	OF 61

CHANGE by *Lin, Jerry* 24-Feb-2011





INVENTEC			
TITLE BRI0MLG			
K/B & TP/B CONN			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-31	REV 01
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET 41		OF 61	



INVENTEC

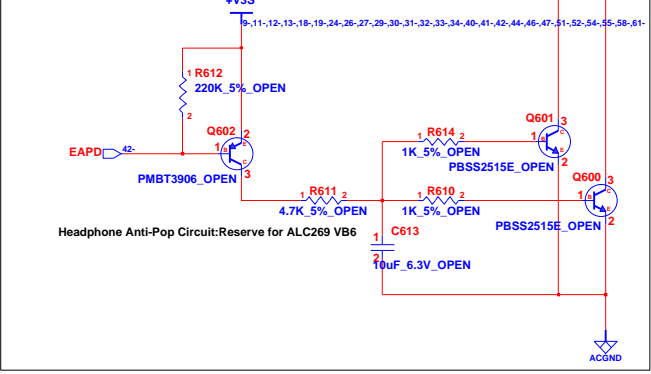
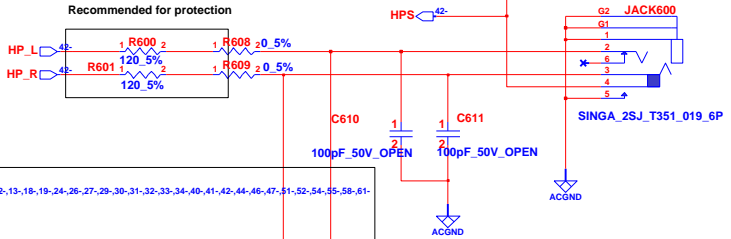
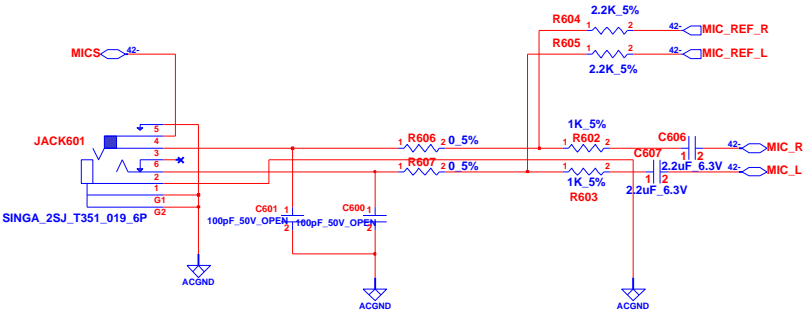
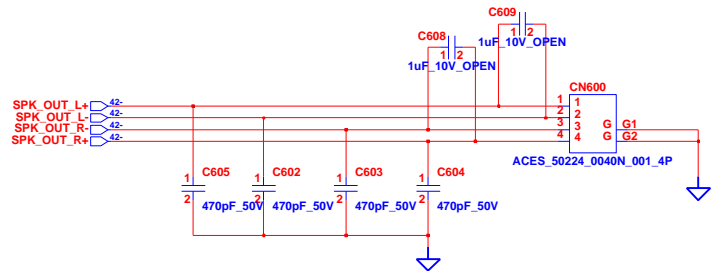
TITLE BR10MLG Audio codec			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-31	REV 001
CHANGE by <i>Lin, Jerry</i>		7-Jan-2011	
SHEET 42		OF 61	

AUDIO JACKS

INTERNAL SPEAKERS

Port C
External microphone

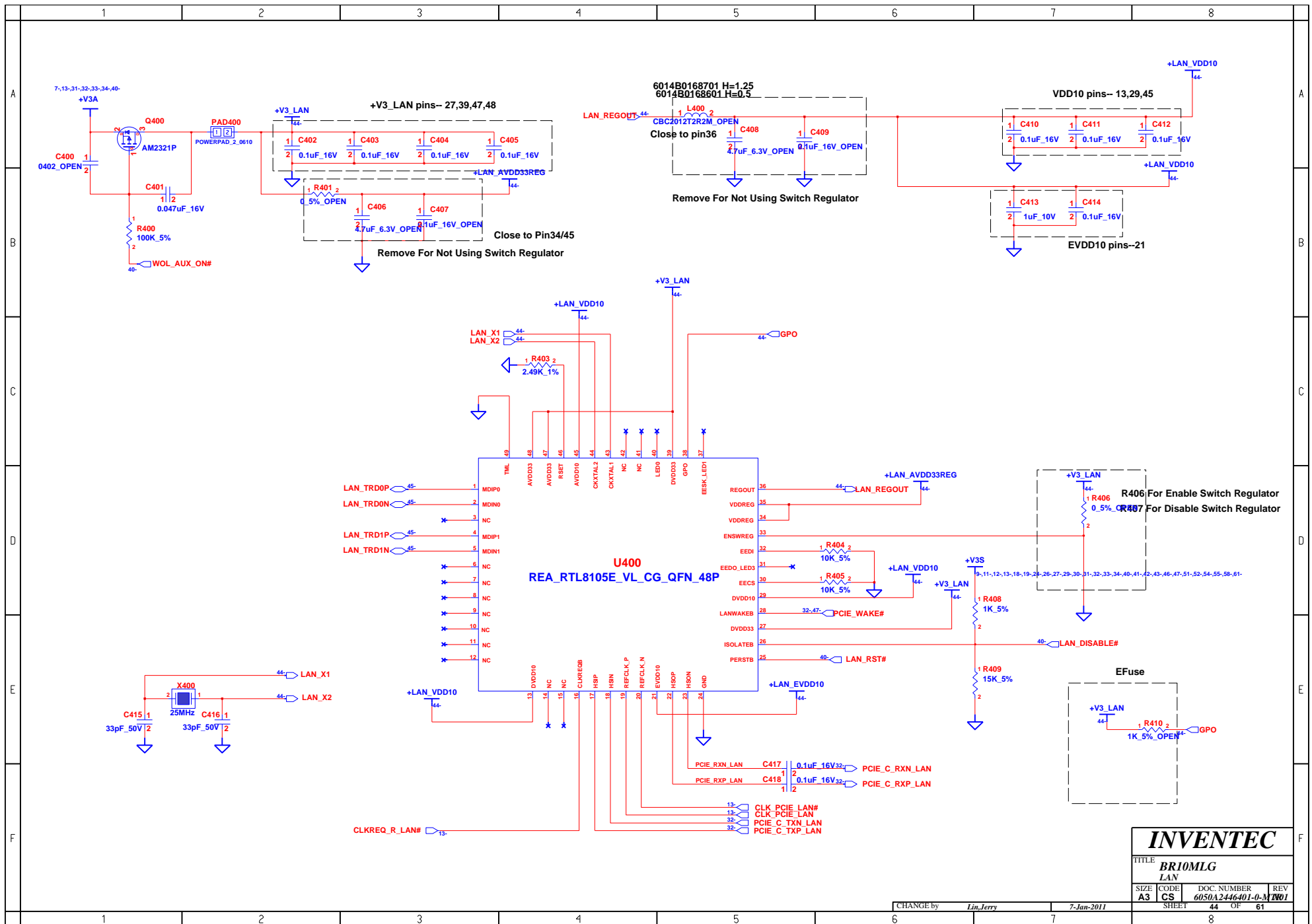
Port A
Headphone



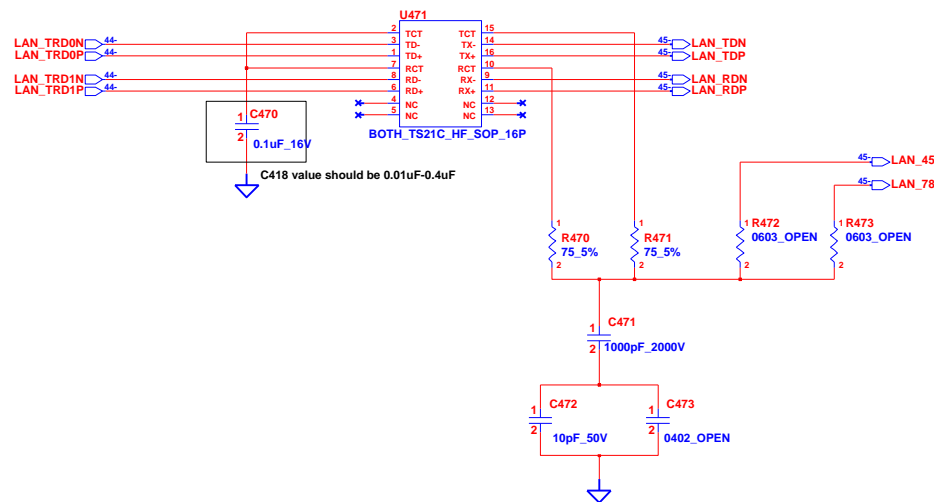
INVENTEC

TITLE			
BRI0MLG			
Audio AMP&MIC&Speaker			
SIZE	CODE	DOC NUMBER	REV
A3	CS	6050A2446401-0-MT	R001
SHEET		43	OF 61

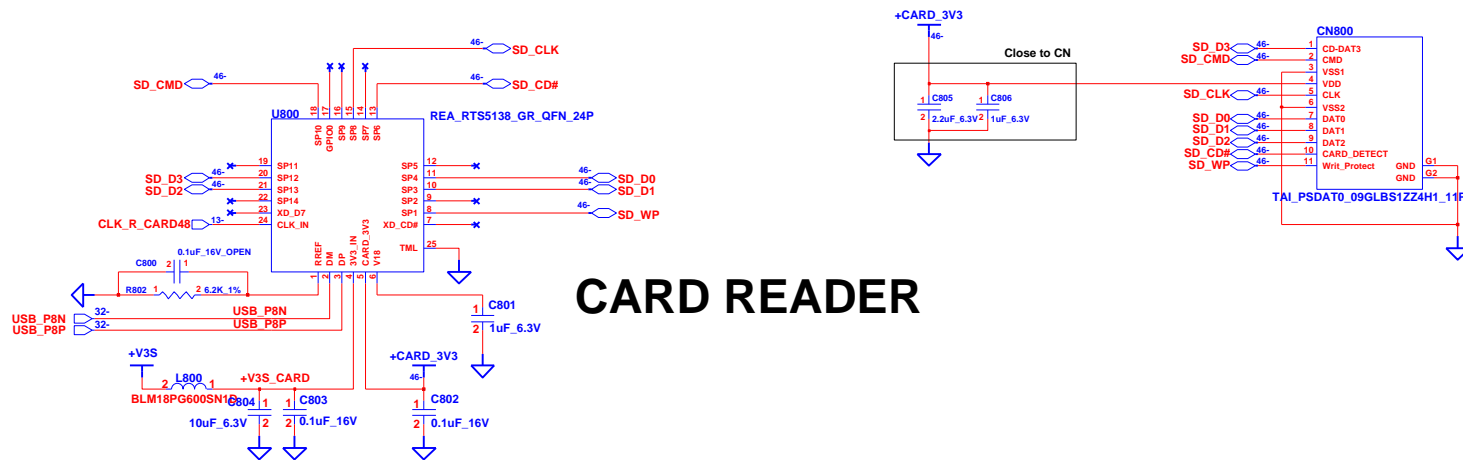
CHANGE by Lin Jerry 7-Jan-2011



INVENTEC			
TITLE BR10MLG LAN			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV 701
CHANGE by Lin Jerry		7-Jan-2011	
SHEET 44		OF 61	

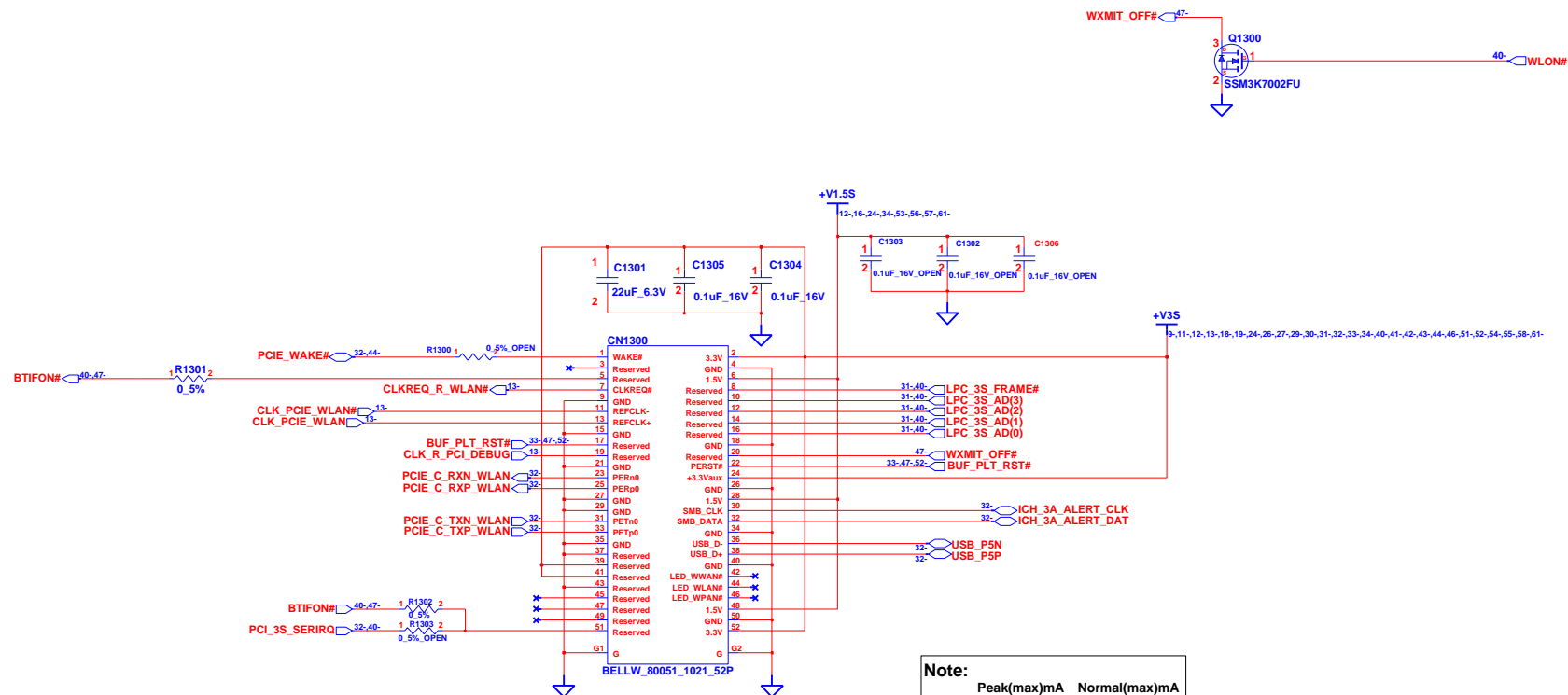


TITLE			
BR10MLG <i>Transformer & RJ45</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-MTR	01
SHEET		45 OF	61



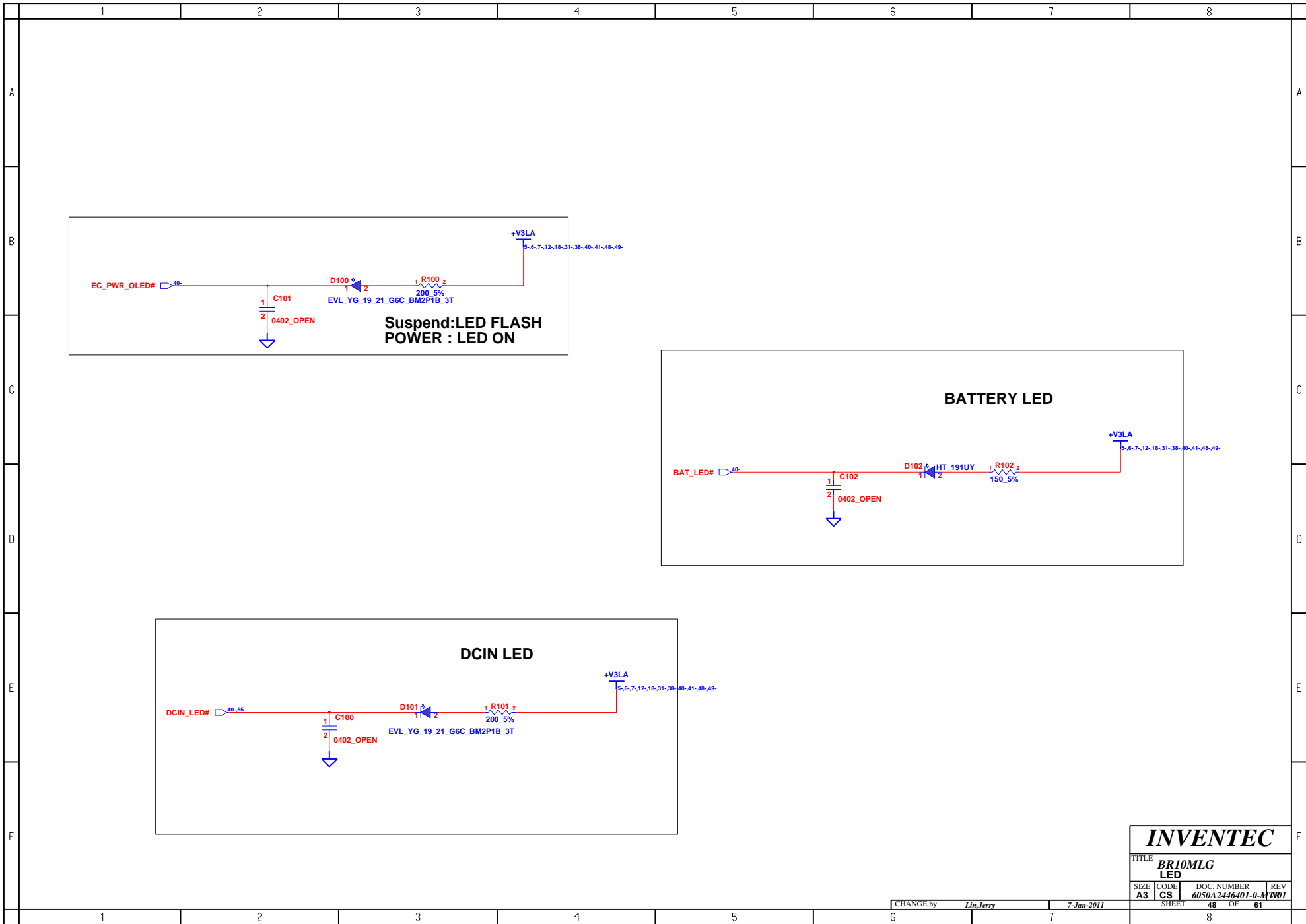
INVENTEC			
TITLE BR10MLG USB Card Reader			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-MT	REV R001
CHANGE by Lin Jerry		7-Jan-2011	
SHEET 46		OF 61	

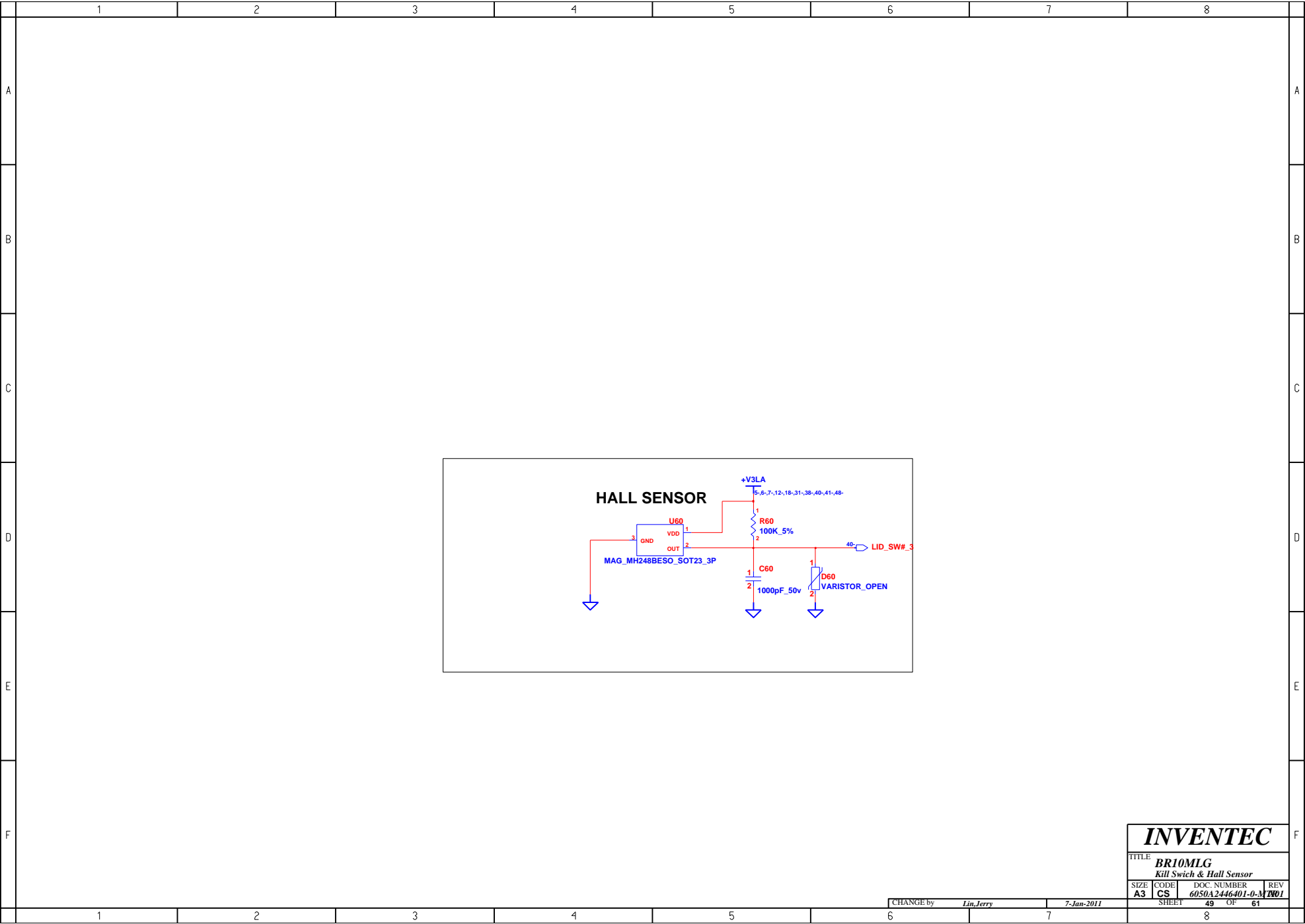
Wireless & Debug card



INVENTEC

TITLE BR10MLG Wireless & debug card			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M101	REV 1
CHANGE by <i>Lin Jerry</i>		7-Jan-2011	
SHEET 47		OF 61	





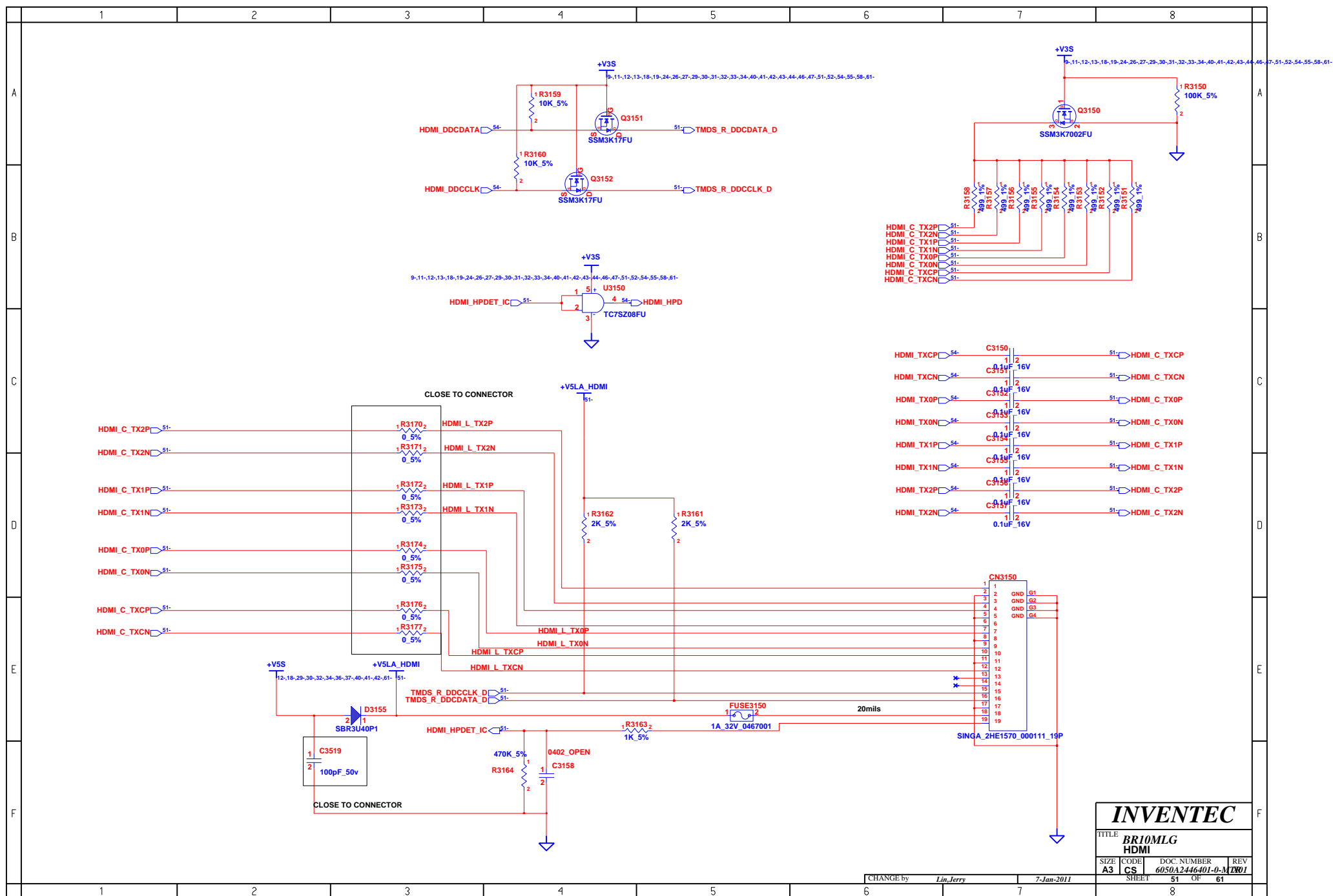
INVENTEC

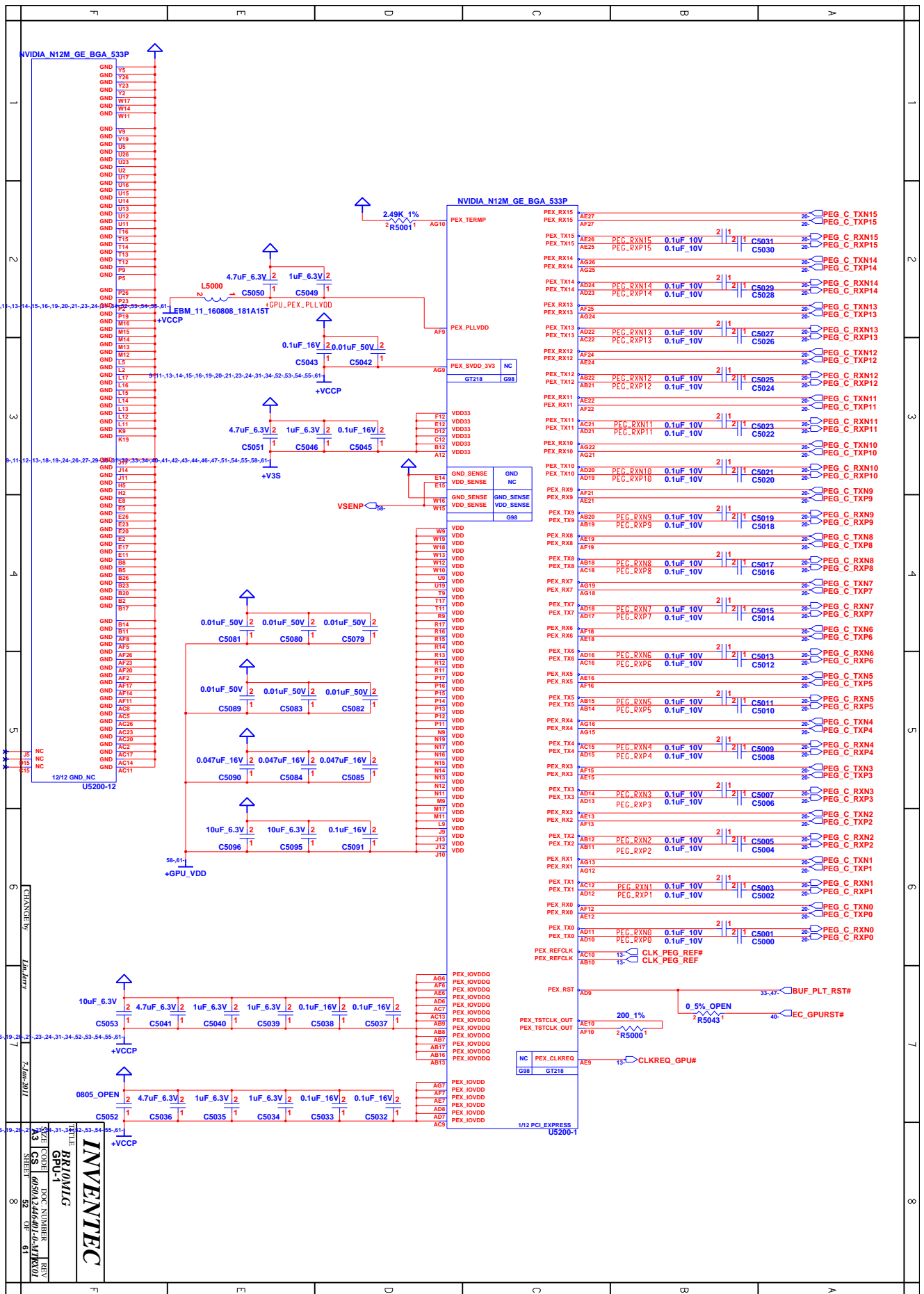
TITLE
BR10MLG
Kill Swich & Hall Sensor

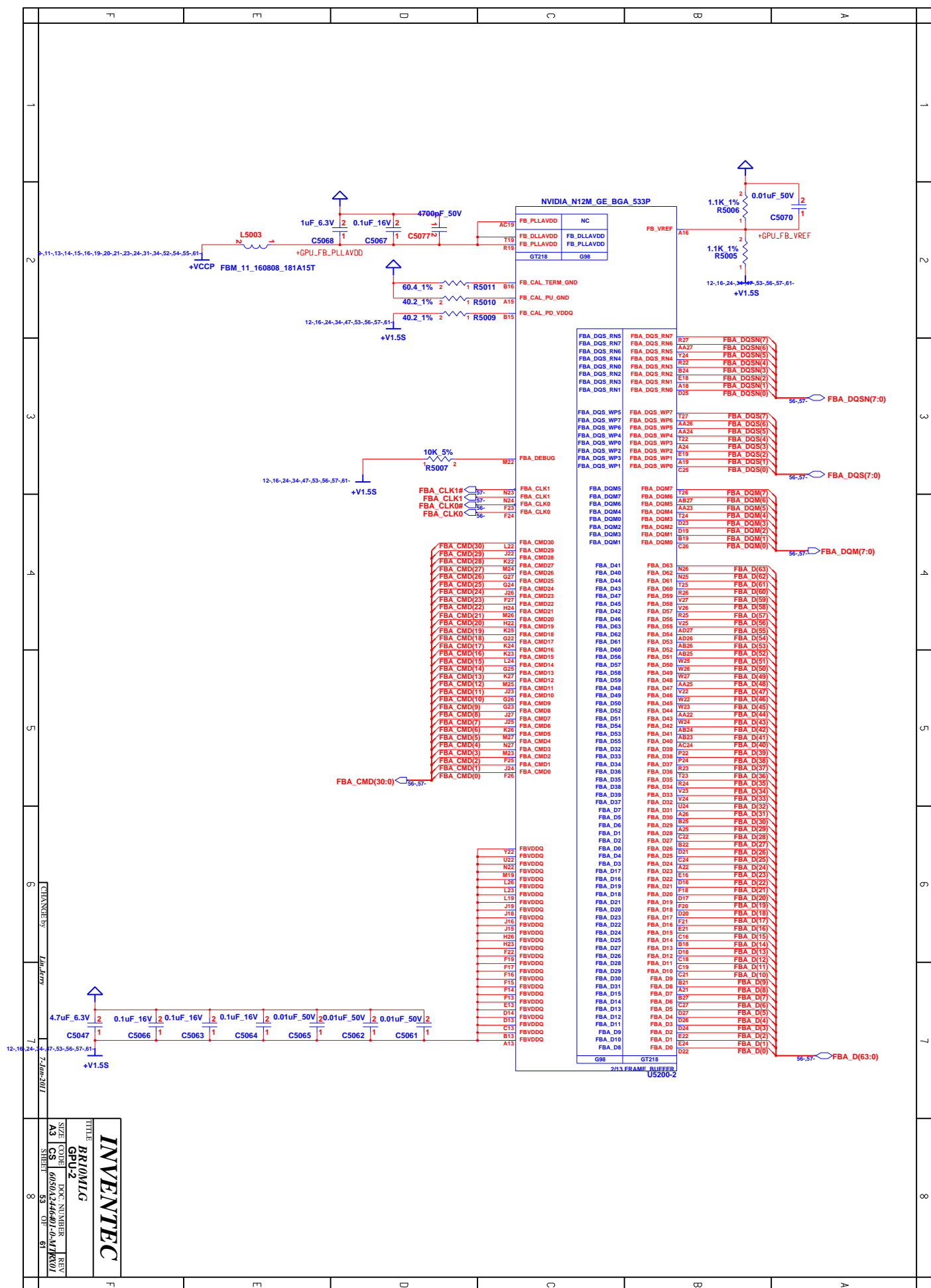
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-M	001

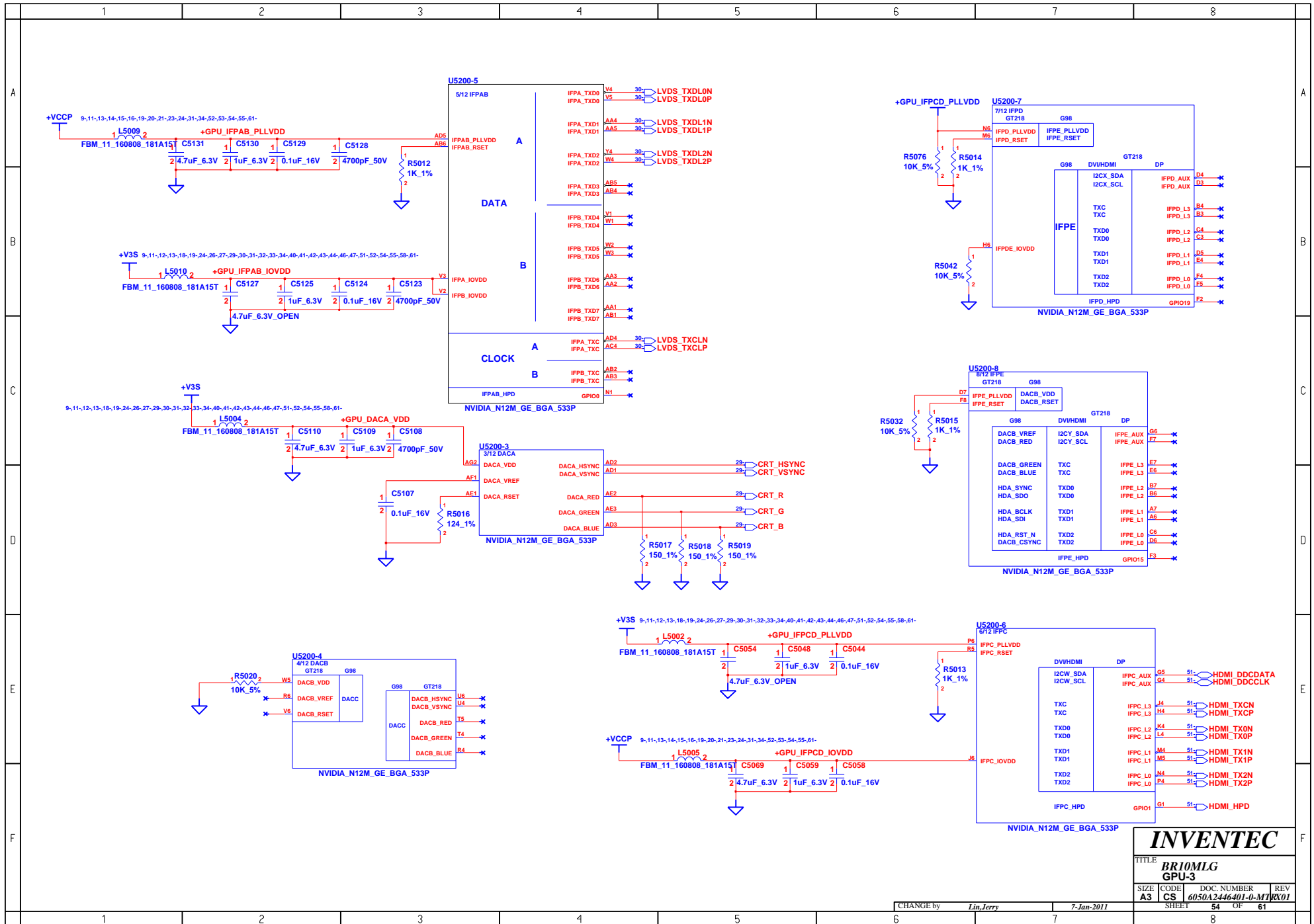


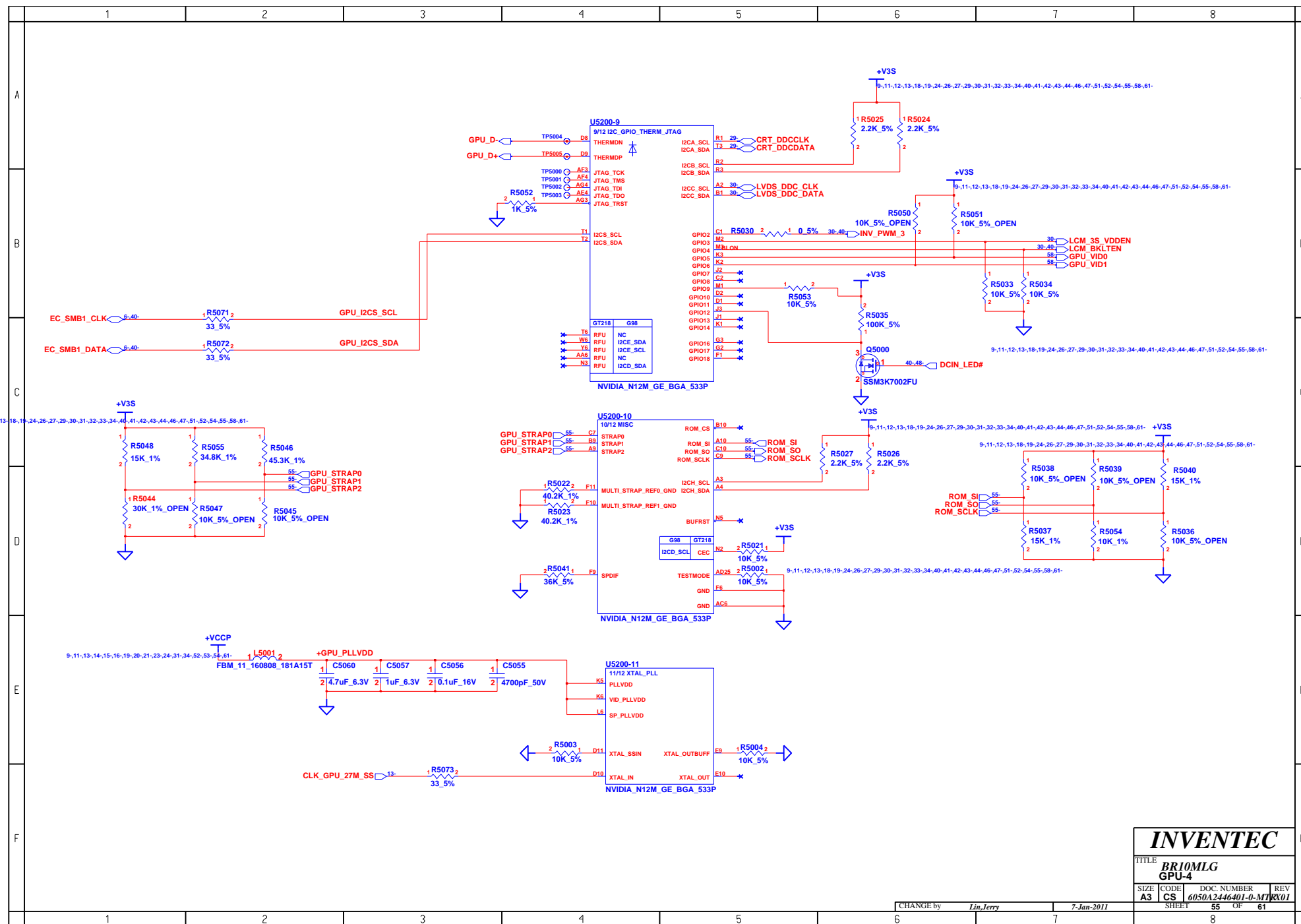
INVENTEC			
TITLE B710MLG Screw			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV B01
CHANGE by Lin, Jerry		7-Jan-2011	SHEET 50 OF 61

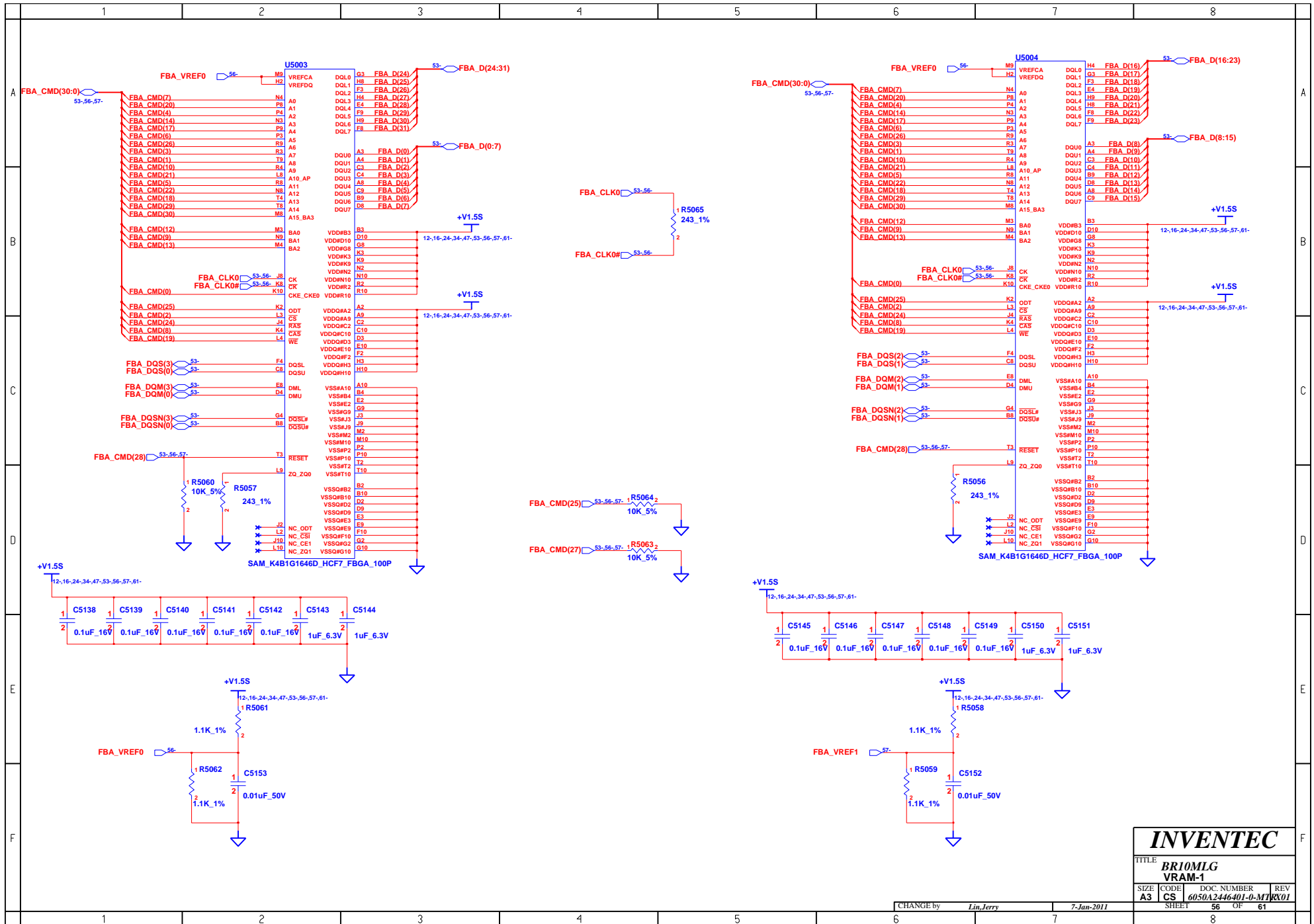








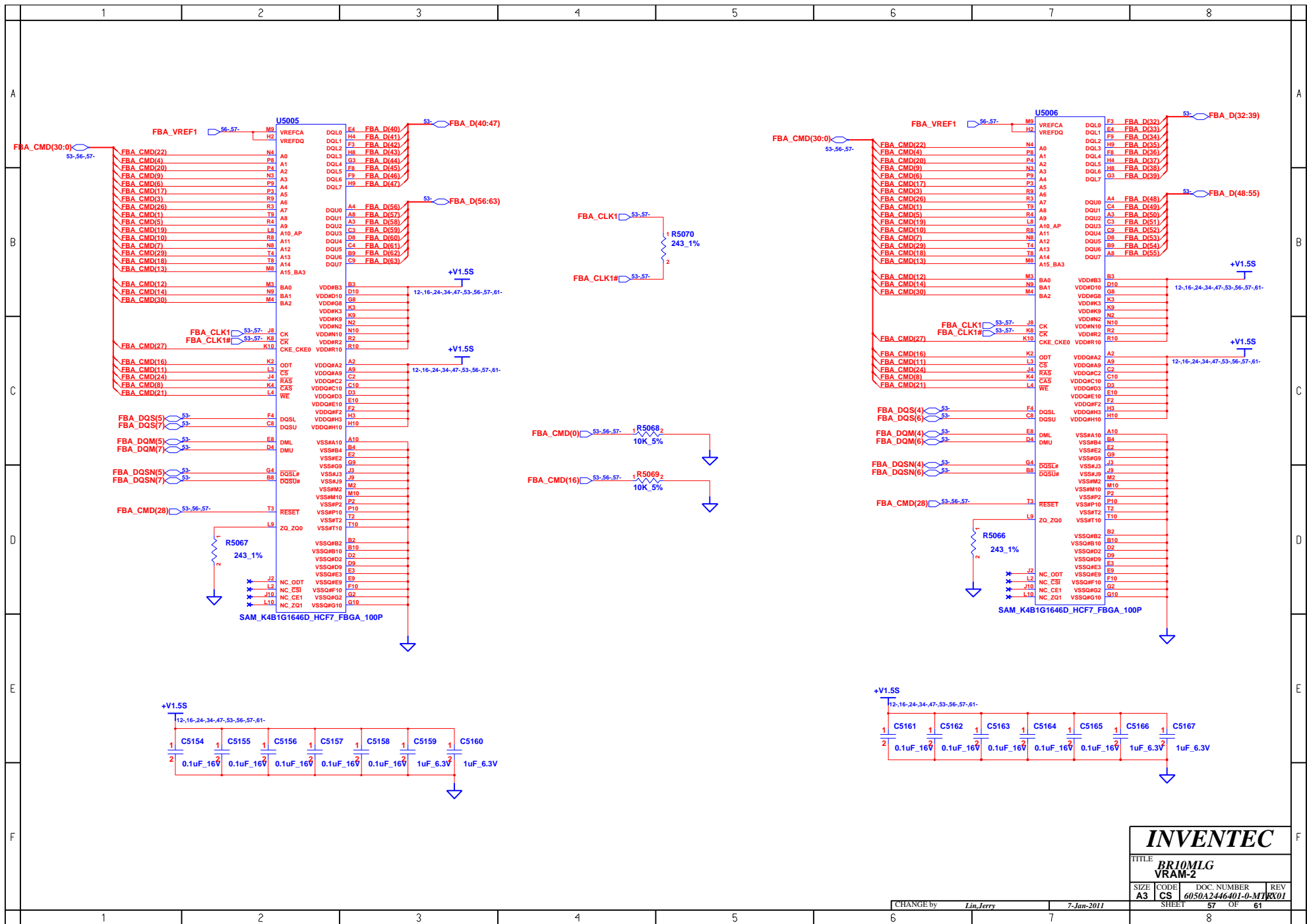




INVENTEC

TITLE BRI0MLG VRAM-1			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-MT	REV R001
SHEET 56		OF 61	

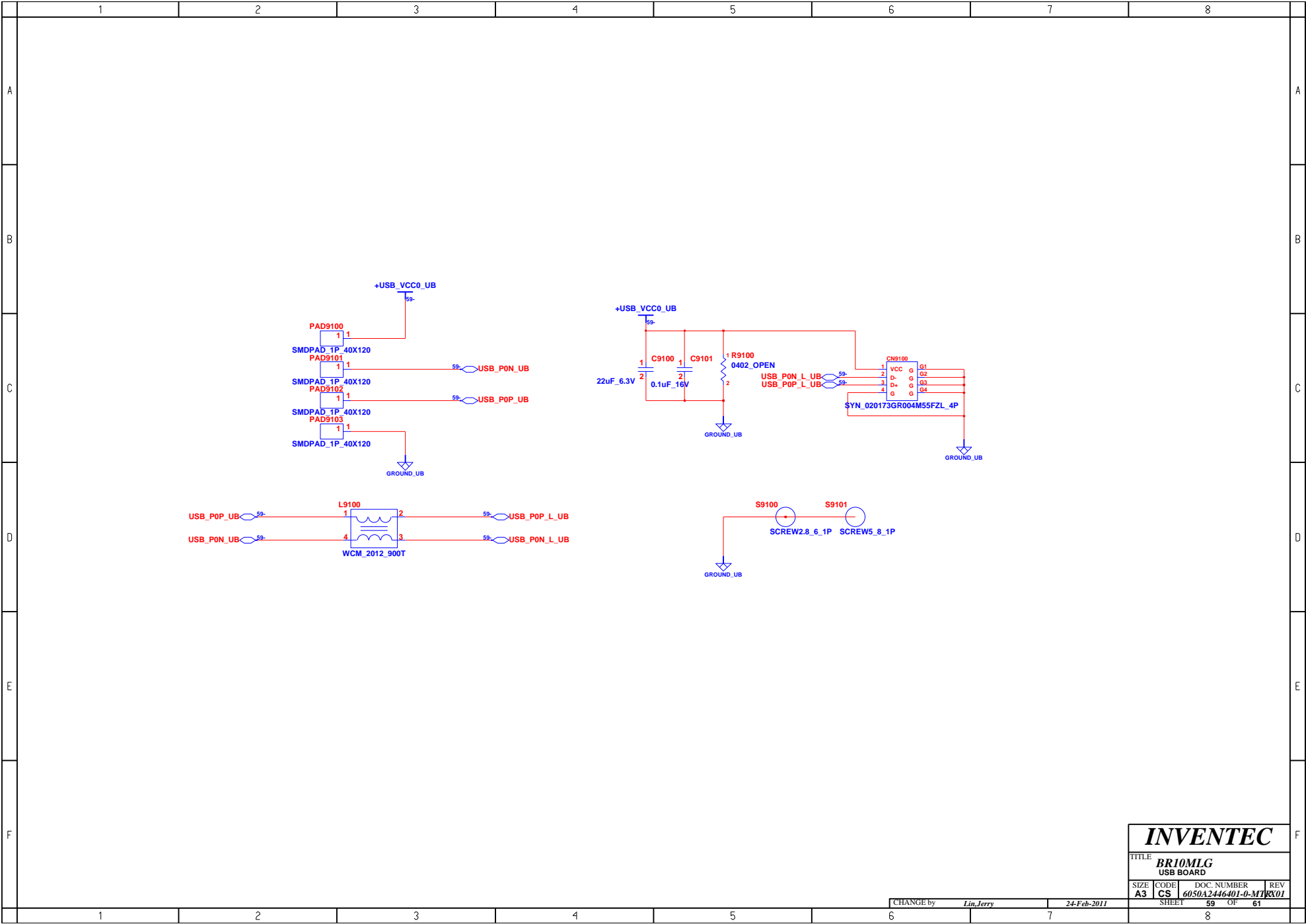
CHANGE by *Lin Jerry* 7-Jan-2011



INVENTEC

TITLE			
BR10MLG VRAM-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-M1	R001
SHEET		57	OF 61

CHANGE by Lin Jerry 7-Jan-2011



INVENTEC

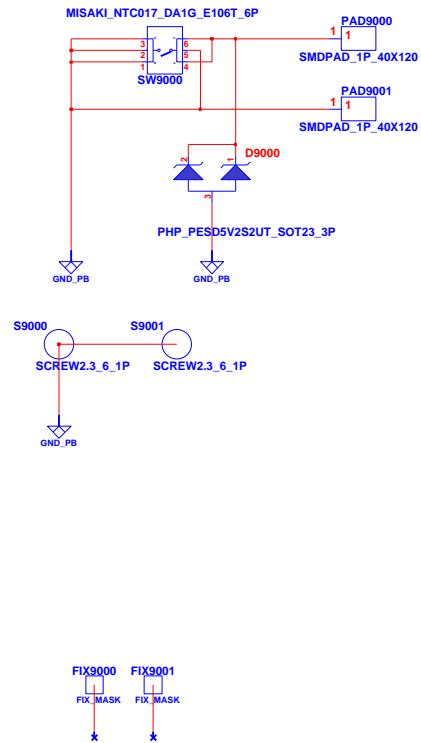
TITLE
BR10MLG
USB BOARD

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-MT	R001

CHANGE by Lin, Jerry 24-Feb-2011

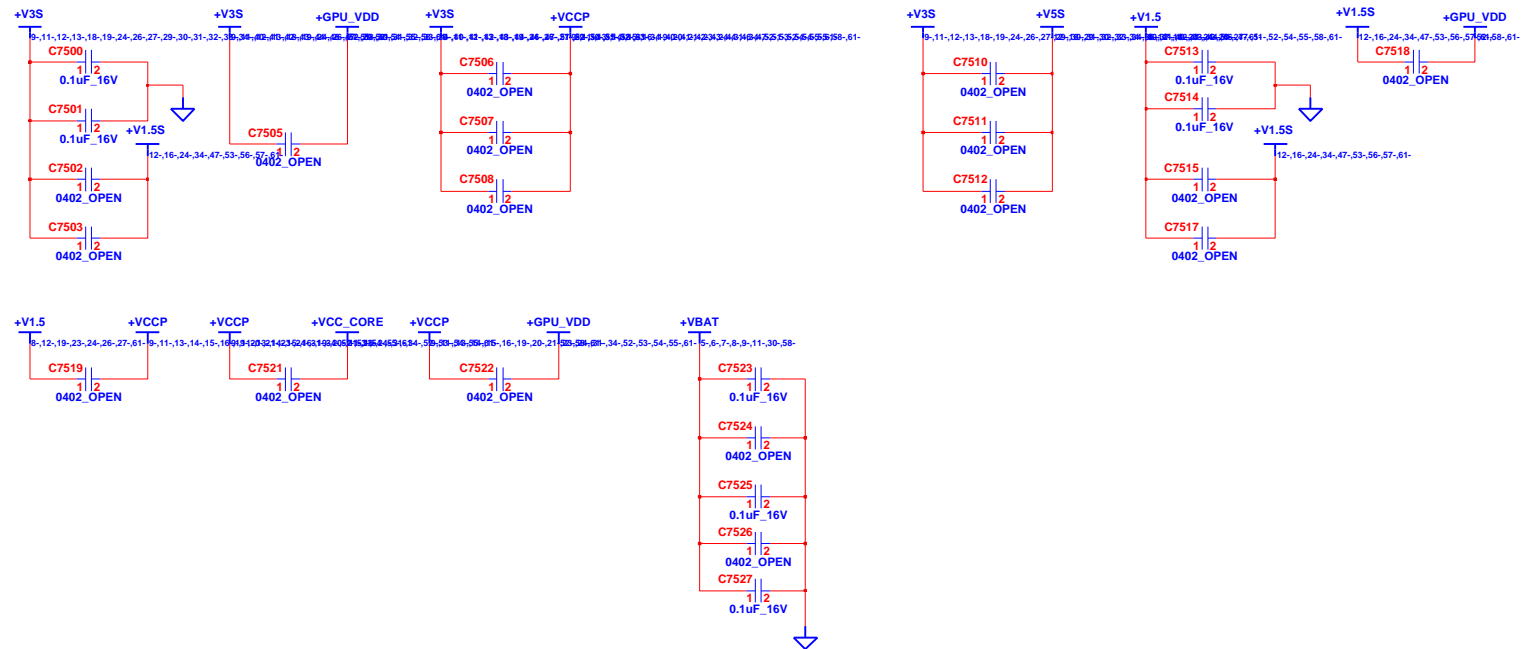
SHEET 59 OF 61

POWER BUTTON



INVENTEC			
TITLE: BR10MLG POWER BUTTON			
SIZE: A3	CODE: CS	DOC. NUMBER: 6050A2446401-0-MT	REV: R01
CHANGE by: Lin, Jerry		24-Feb-2011	
SHEET: 60		OF: 61	

EMI



INVENTEC

TITLE			
BR10MLG			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-MT	R001
SHEET		61	OF 61

CHANGE by Lin, Jerry 7-Jan-2011