

[illegible]

	1	2	3	4	5	6	7	8																																																																								
A										A																																																																						
B										B																																																																						
C	<div style="text-align:center;"><h1>MANAUS 10M PreMP Build(A02)</h1><h2>2010.03.23</h2></div>									C																																																																						
D										D																																																																						
E										E																																																																						
F	<table border="1"><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>2010/03/16</td><td>2010-ECO-004887</td><td>A</td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																			2010/03/16	2010-ECO-004887	A	DATE	CHANGE NO.	REV					<table border="1"><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DRAWER</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>DESIGN</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>CHECK</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>RESPONSIBLE</td><td>Chiou, Bryan</td><td>2010-03-16</td><td>Liang, Tommy</td><td>2010-03-16</td></tr><tr><td colspan="2">SIZE = 3</td><td colspan="3">VER : A02</td></tr><tr><td colspan="5">FILE NAME : MAS10M-6050A2355301-MB-A02-26-20100322</td></tr><tr><td colspan="2">P/N 6050A2355301</td><td colspan="3"></td></tr></table>		EE	DATE	POWER	DATE	DRAWER	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	DESIGN	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	CHECK	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16	SIZE = 3		VER : A02			FILE NAME : MAS10M-6050A2355301-MB-A02-26-20100322					P/N 6050A2355301					<div>InvenTec MAS10M</div> <table border="1"><tr><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER I310A23553-0-0</td><td>REV A02</td></tr><tr><td>SHEET</td><td>1</td><td>OF</td><td>52</td></tr></table>	SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02	SHEET	1	OF	52	F
2010/03/16	2010-ECO-004887	A																																																																														
DATE	CHANGE NO.	REV																																																																														
	EE	DATE	POWER	DATE																																																																												
DRAWER	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																												
DESIGN	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																												
CHECK	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																												
RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16																																																																												
SIZE = 3		VER : A02																																																																														
FILE NAME : MAS10M-6050A2355301-MB-A02-26-20100322																																																																																
P/N 6050A2355301																																																																																
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02																																																																													
SHEET	1	OF	52																																																																													

	1	2	3	4	5	6	7	8																																																																															
A																																																																																							
B																																																																																							
C	<div>MANAUS 10M PreMP Build(A02) 2010.03.23</div>																																																																																						
D																																																																																							
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>2010/03/16</td><td>2010-ECO-004887</td><td>A</td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																									2010/03/16	2010-ECO-004887	A	DATE	CHANGE NO.	REV	<table><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td><td rowspan="6">TITLE MASIOM</td></tr><tr><td>DRAWER</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>DESIGN</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>CHECK</td><td>Pet. Kobe</td><td>2010-03-16</td><td>Lo. Bin-Zhi</td><td>2010-03-16</td></tr><tr><td>RESPONSIBLE</td><td>Chiou, Bryan</td><td>2010-03-16</td><td>Liang, Tommy</td><td>2010-03-16</td></tr><tr><td colspan="5">SIZE = 3 VER : A02</td></tr><tr><td colspan="5">FILE NAME : MASIOM-6050A2355301-MB-A02-26-20100322</td><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER 1310A23553-0-0</td><td>REV A02</td></tr><tr><td>P/N</td><td colspan="4">6050A2355301</td><td>SHEET</td><td>1</td><td>OF</td><td>52</td></tr></table>								EE	DATE	POWER	DATE	TITLE MASIOM	DRAWER	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	DESIGN	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	CHECK	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16	RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16	SIZE = 3 VER : A02					FILE NAME : MASIOM-6050A2355301-MB-A02-26-20100322					SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02	P/N	6050A2355301				SHEET	1	OF	52
2010/03/16	2010-ECO-004887	A																																																																																					
DATE	CHANGE NO.	REV																																																																																					
	EE	DATE	POWER	DATE	TITLE MASIOM																																																																																		
DRAWER	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																																			
DESIGN	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																																			
CHECK	Pet. Kobe	2010-03-16	Lo. Bin-Zhi	2010-03-16																																																																																			
RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16																																																																																			
SIZE = 3 VER : A02																																																																																							
FILE NAME : MASIOM-6050A2355301-MB-A02-26-20100322					SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02																																																																															
P/N	6050A2355301				SHEET	1	OF	52																																																																															
	1	2	3	4	5	6	7	8																																																																															

TABLE OF CONTENTS

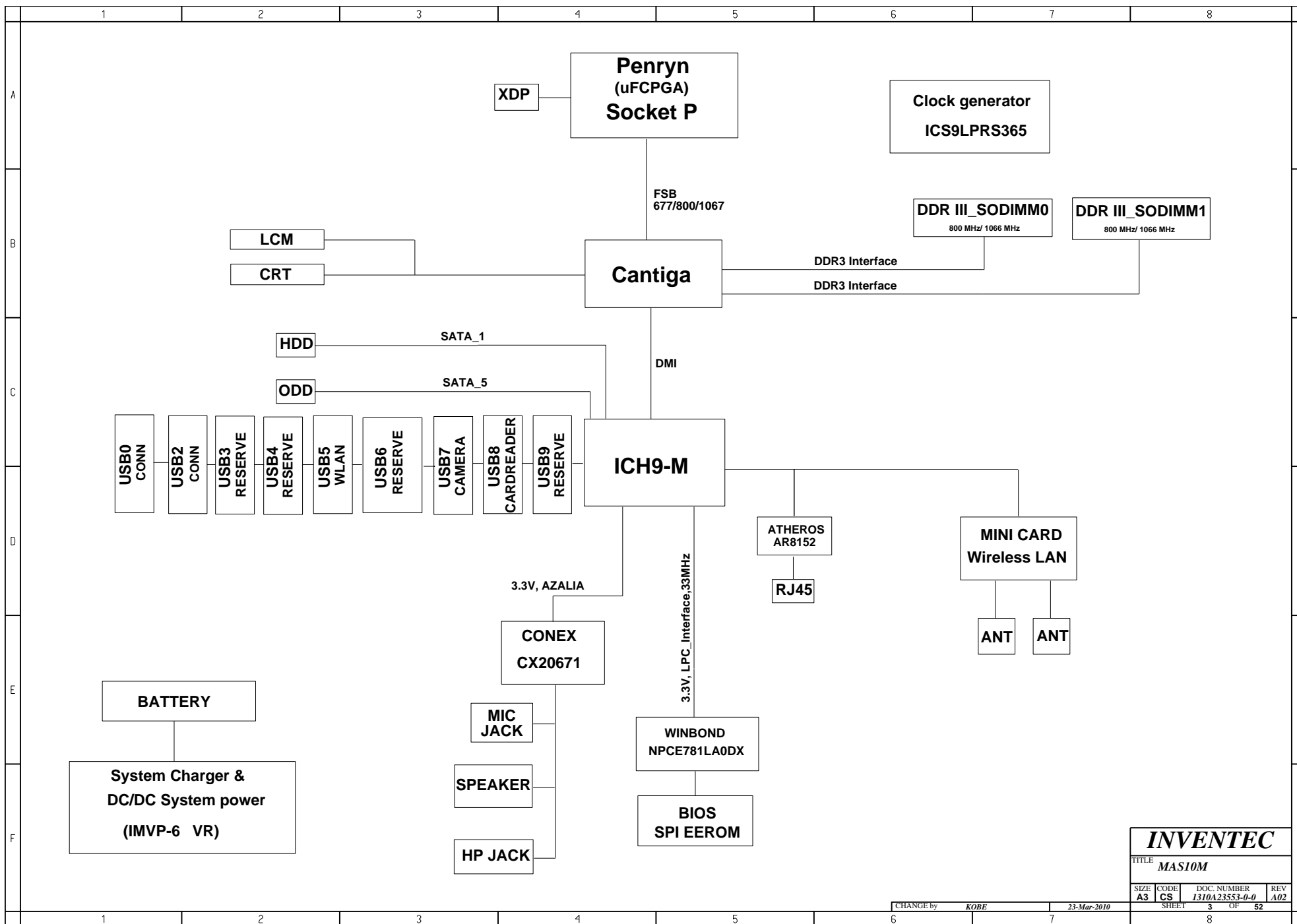
PAGE	PAGE	PAGE
1.COVER PAGE	31.ICH9-1	
2.INDEX	32.ICH9-2	
3.BLOCK DIAGRAM	33.ICH9-3	
4.POWER SEQUENCE BLOCK	34.ICH9-4	
5-12.SYSTEM POWER	35.ICH9-5	
13.CLOCK GENERATOR	36.SATA HDD CONN	
14.PENRYN-1	37.ODD CONN	
15.PENRYN-2	38.USB CONN	
16.PENRYN-3	39.Camera	
17.PENRYN-4	40.KBC	
18.FAN & THERMAL CONTROLLER	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	
23.CANTIGA-5	46.USB Card Reader	
24.CANTIGA-6	47.WLAN /Debug	
25.CANTIGA-7	48.LED(M/B) & HOTKEY/B CONN	
26.DDR3 DIMM0	49.HALL SENSOR	
27.DDR3 DIMM1	50.Screw	
28.DDR DAMPING	51.EMI	
29.CRT CONN	52. power board	
30.LCM CONN		

INVENTEC

TITLE **MAS10M**

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET 2		OF 52	

CHANGE by **KOE** 23-Mar-2010



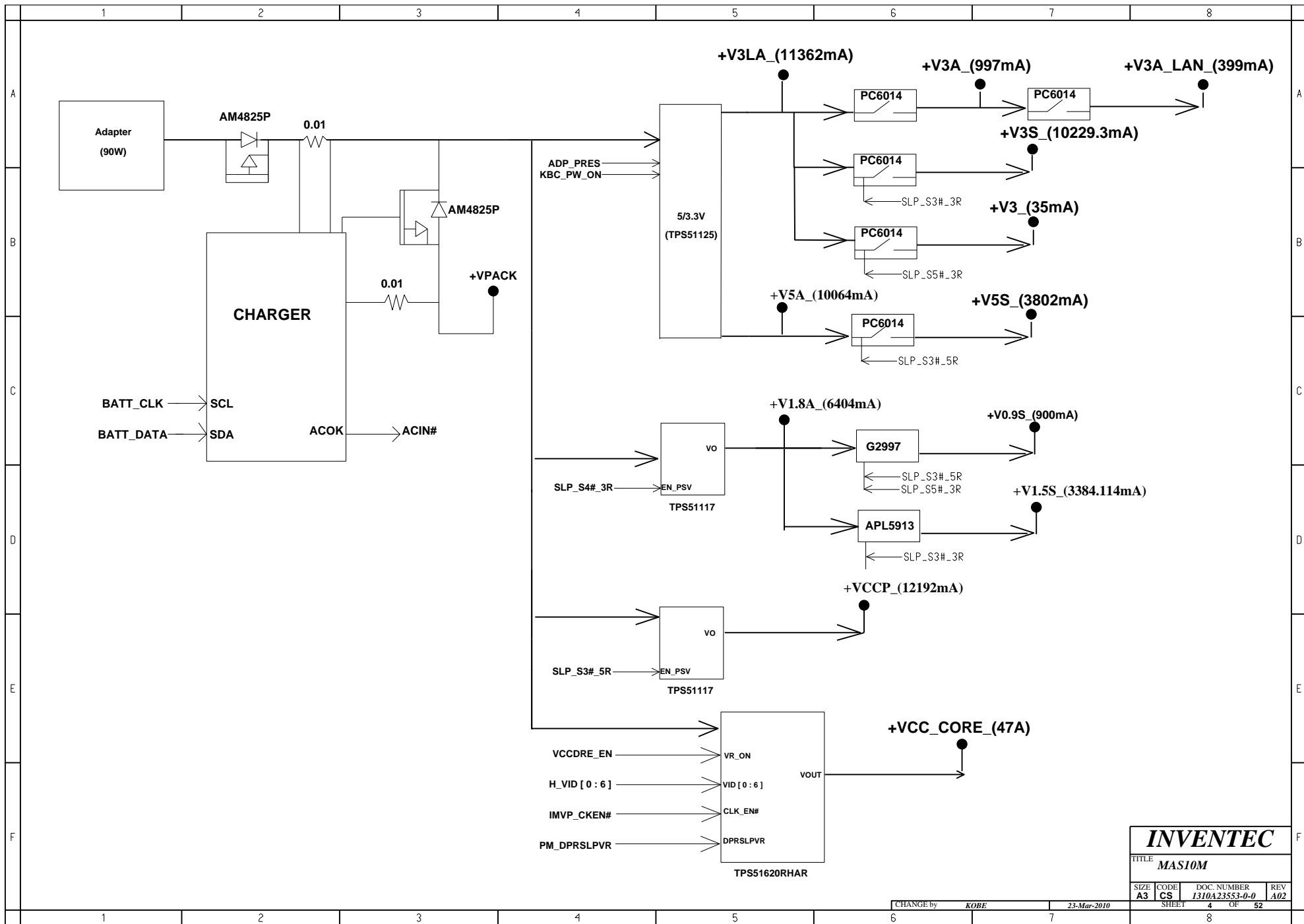
INVENTEC

TITLE
MAS10M

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

CHANGE by **KOBE** 23-Mar-2010

SHEET 3 OF 52



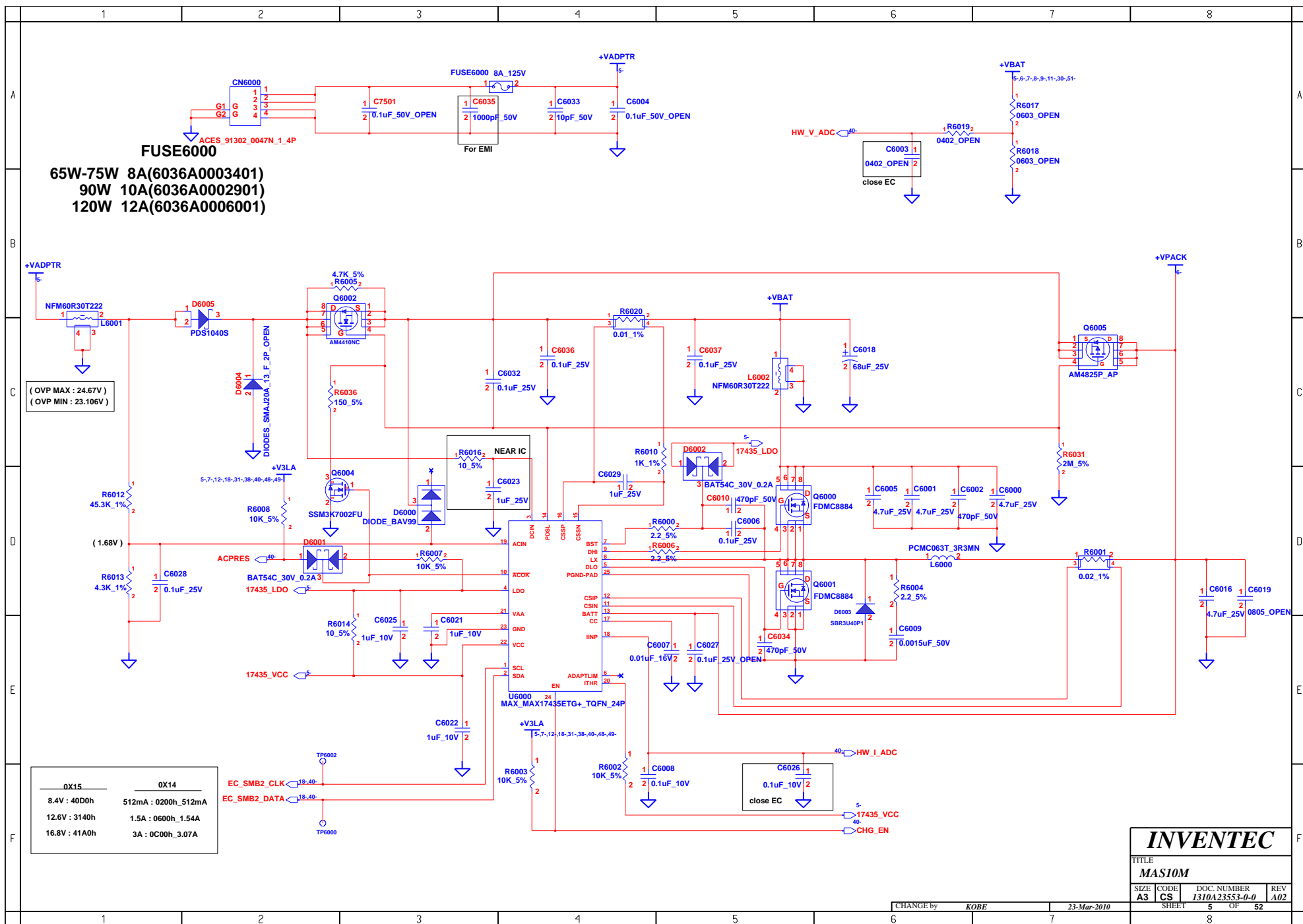
INVENTEC

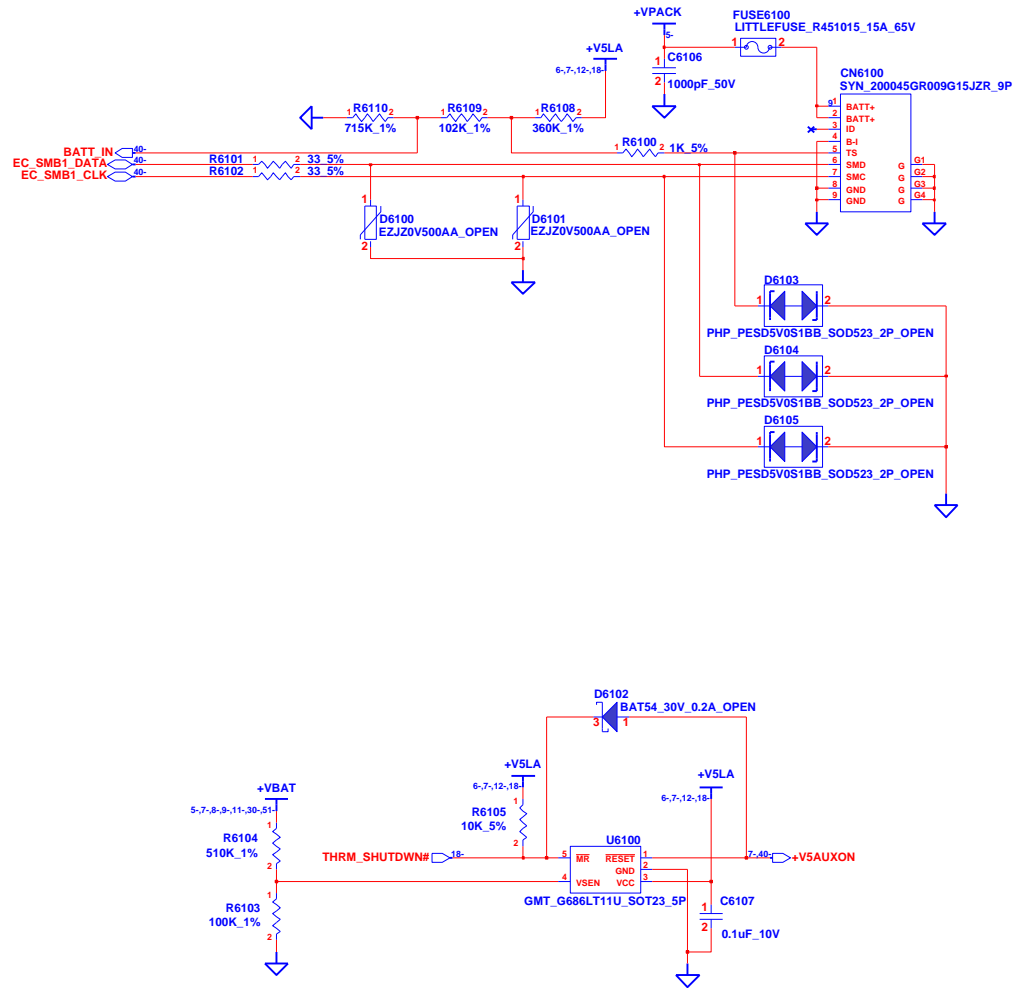
TITLE
MAS10M

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by **KOBE** 23-Mar-2010

SHEET 4 OF 52



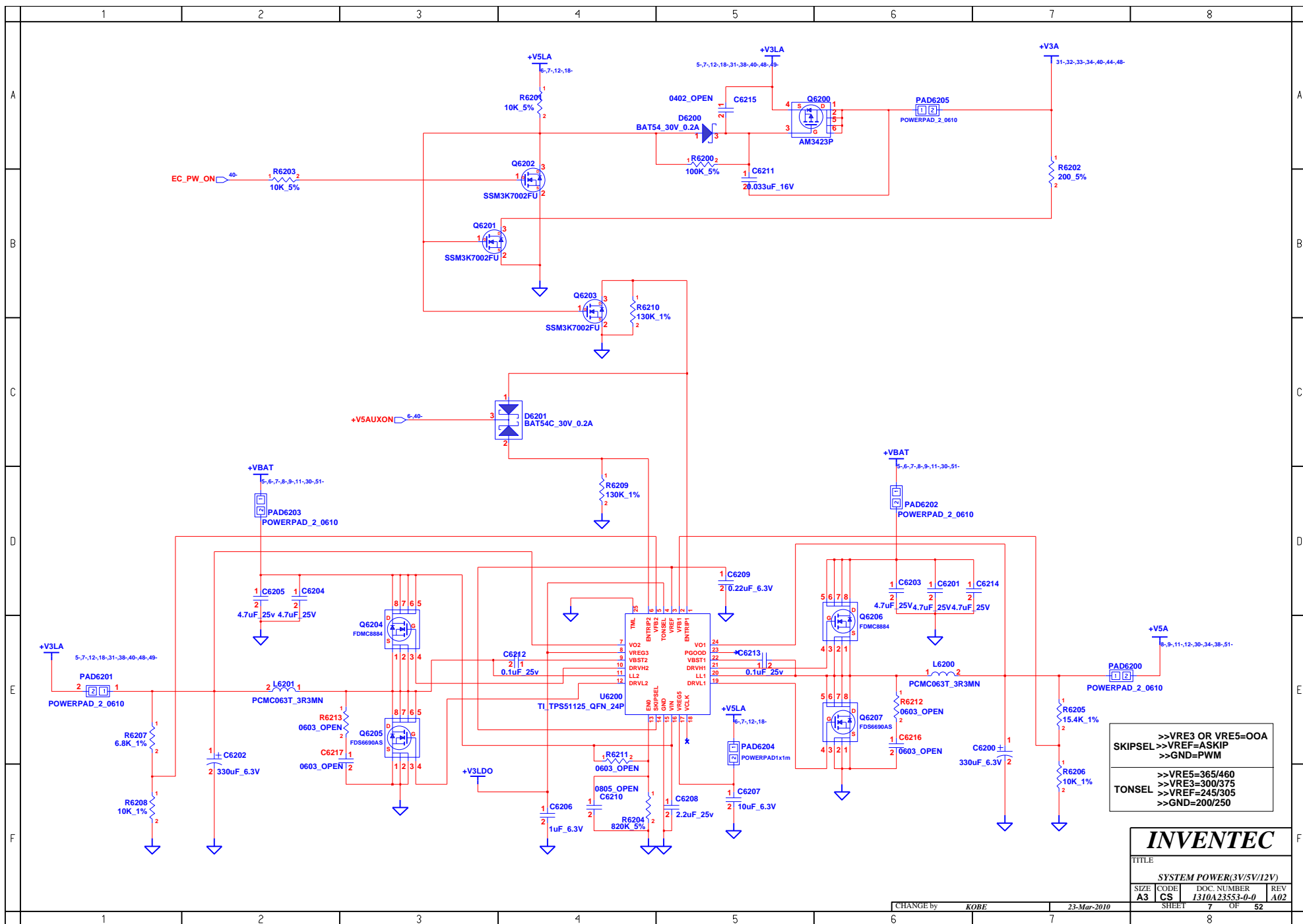


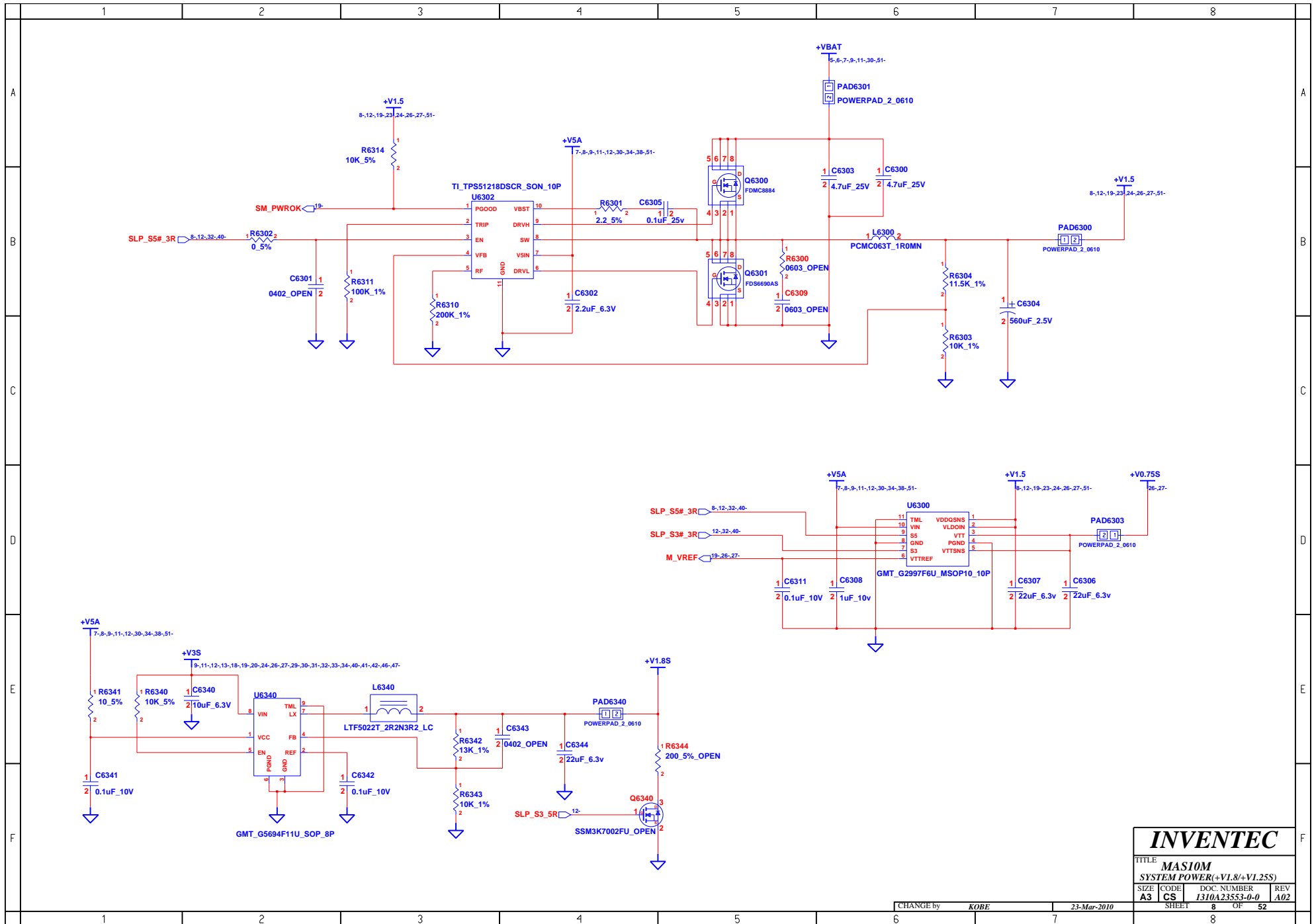
INVENTEC

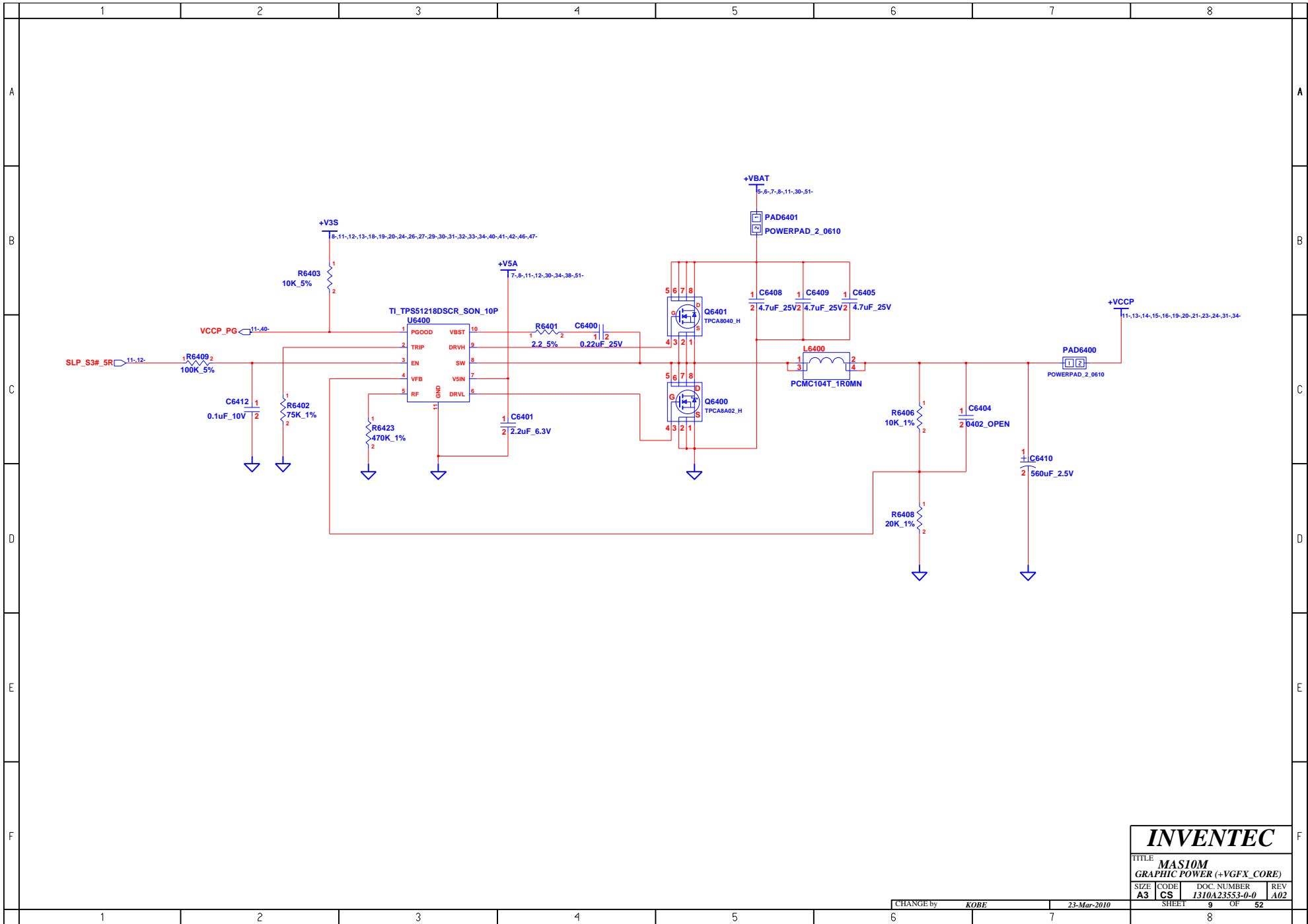
TITLE			
SELECT & BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by **KOBE** 23-Mar-2010

SHEET 6 OF 52



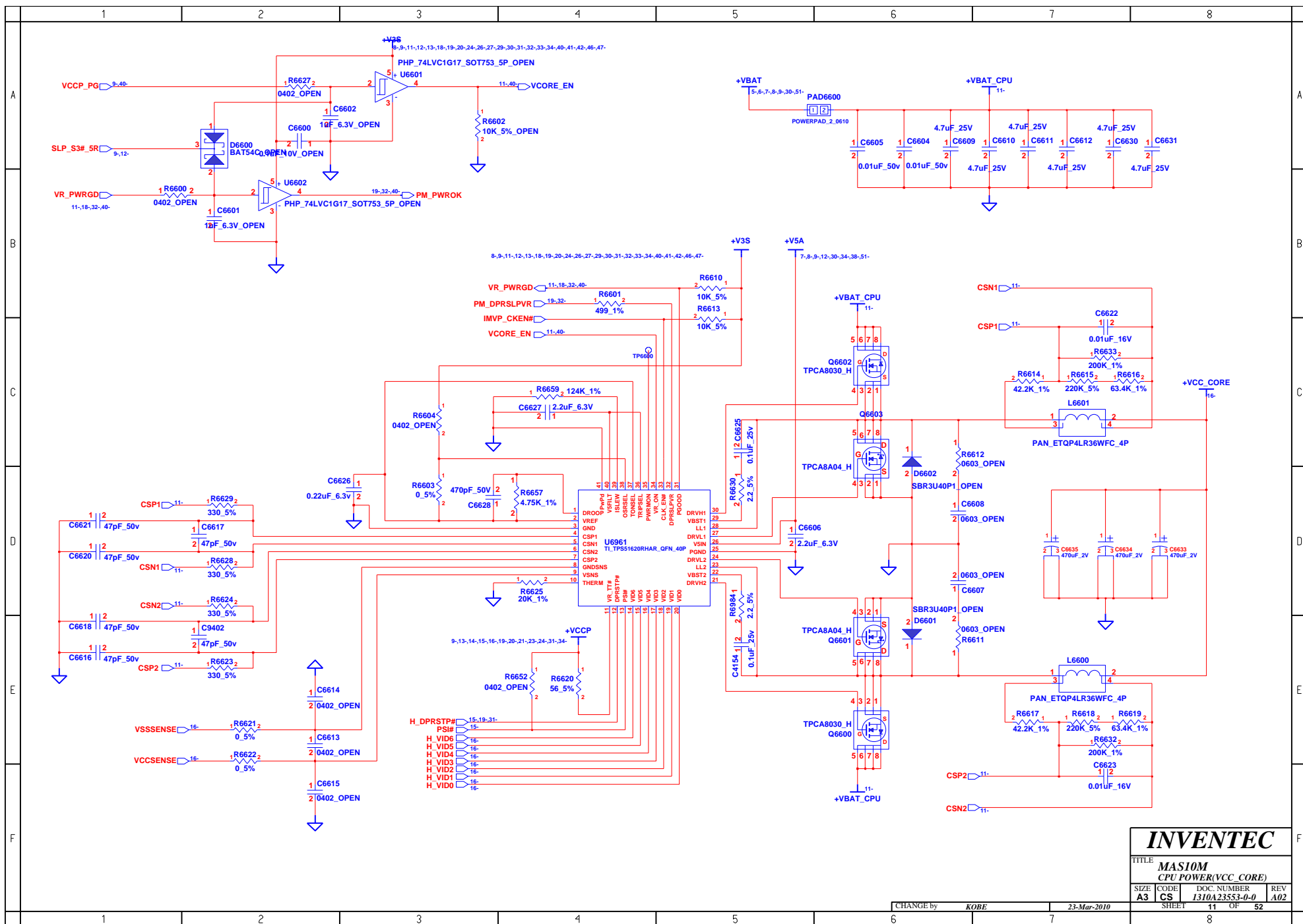


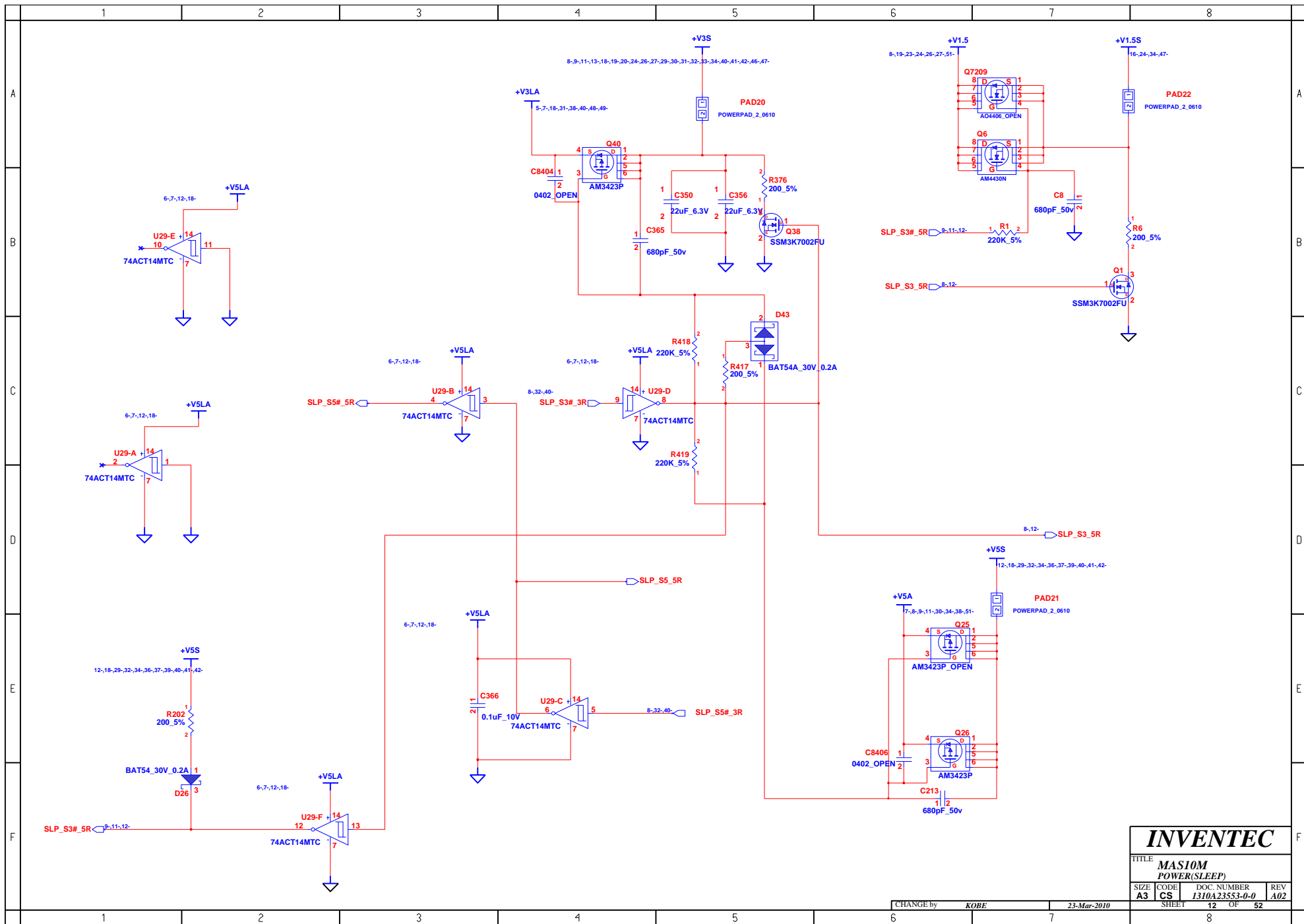


	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE MAS10M			
SYSTEM POWER(+VCCP/+V1.5S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		10	OF 52

CHANGE by	KOE	23-Mar-2010
-----------	-----	-------------



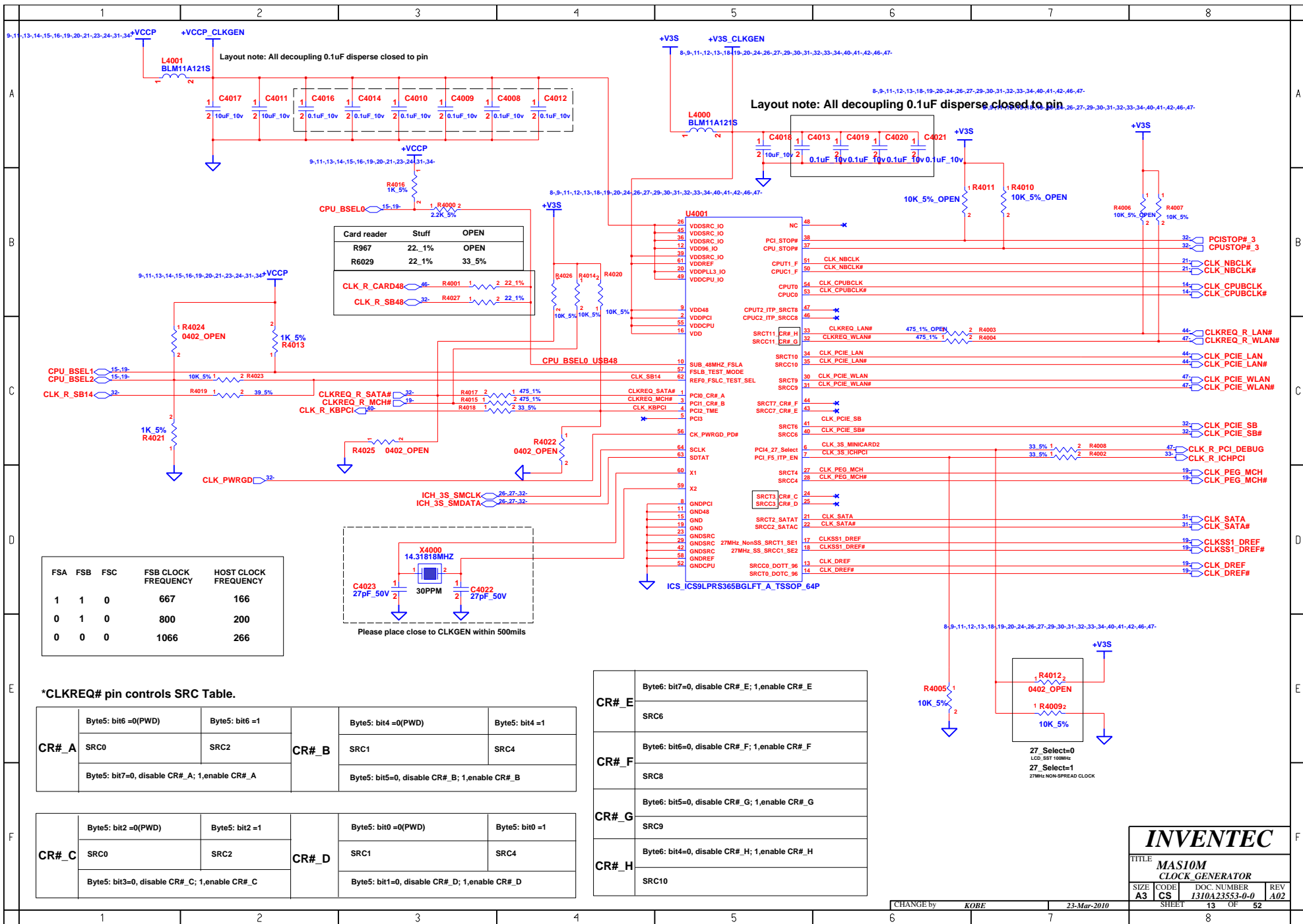


INVENTEC

TITLE			
MAS10M POWER(SLEEP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 12 OF 52



INVENTEC

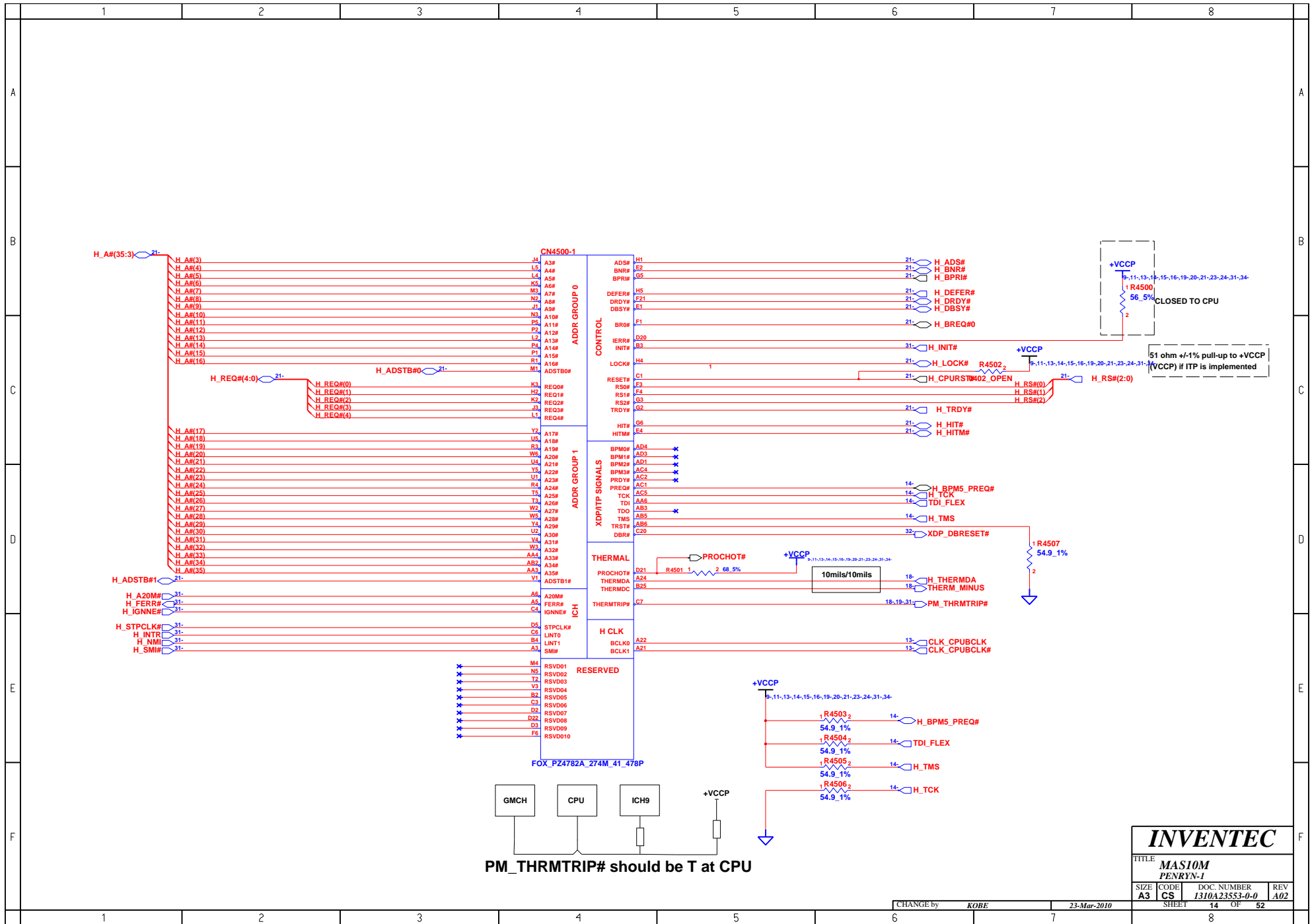
TITLE MAS10M
CLOCK GENERATOR

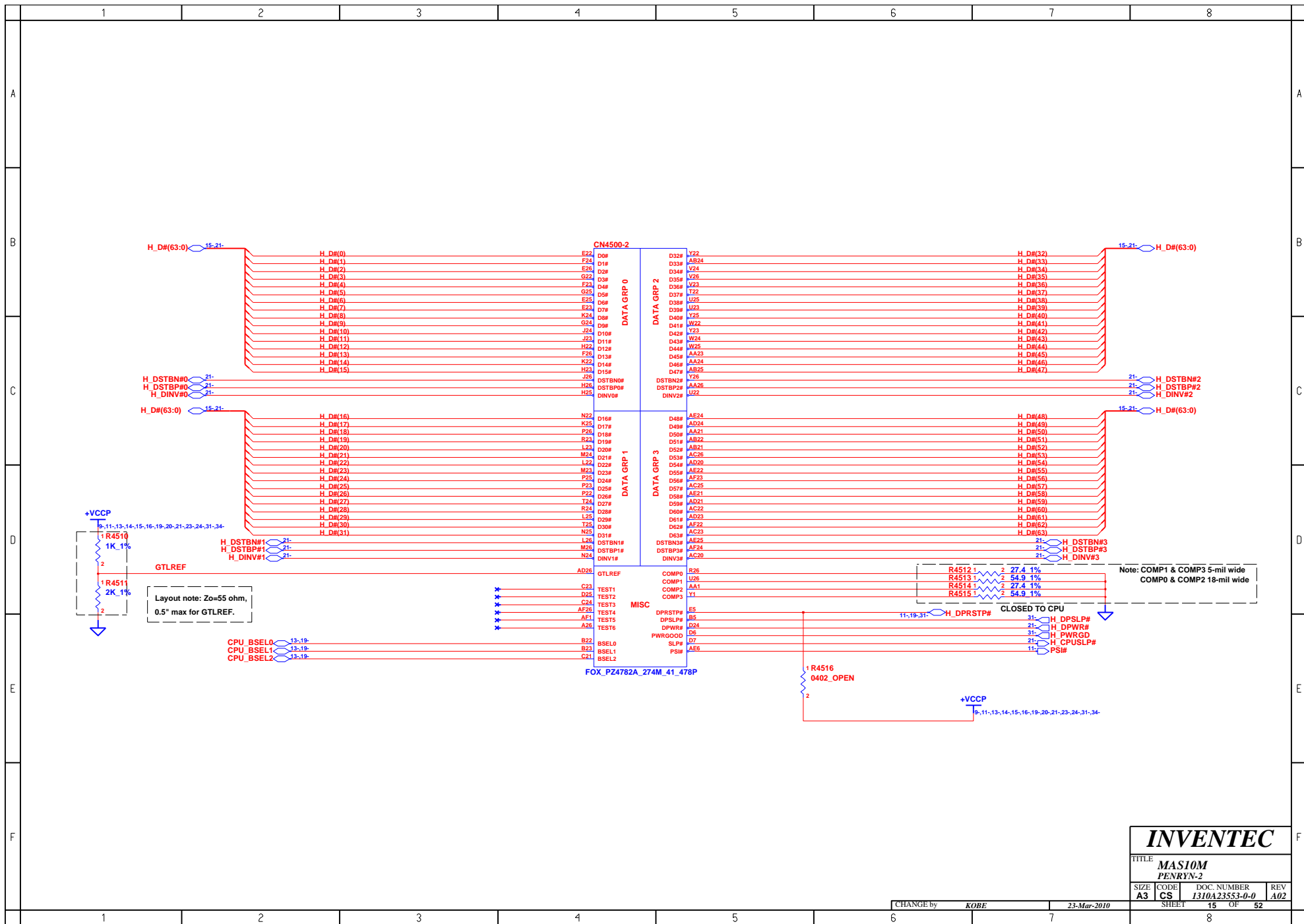
SIZE CODE A3 CS

DOC NUMBER 1310A2353-0-0

REV A02

SHEET 13 OF 52





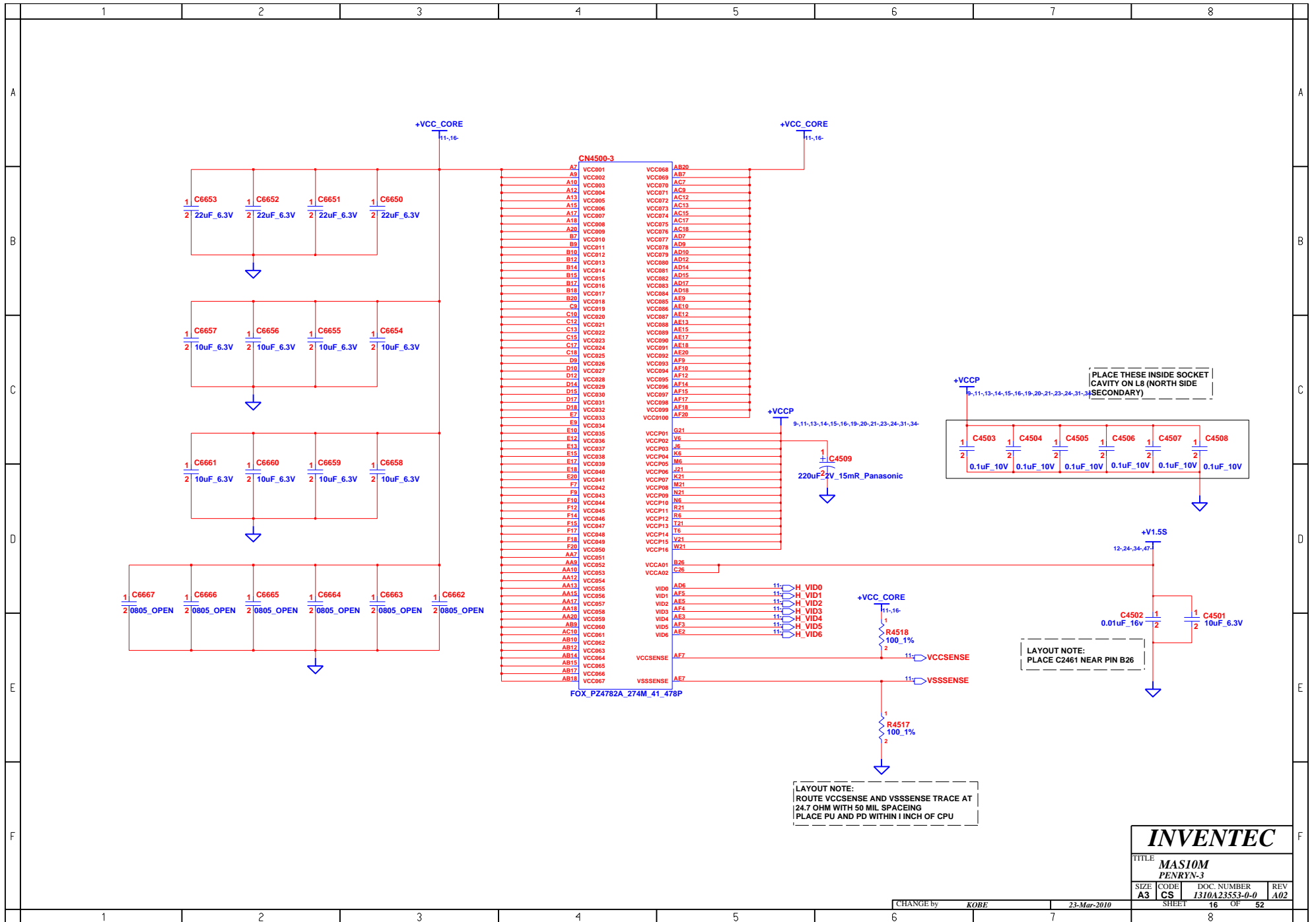
INVENTEC

TITLE
MAS10M
PENRYN-2

SIZE CODE DOC. NUMBER REV
A3 CS I310A23553-0-0 A02

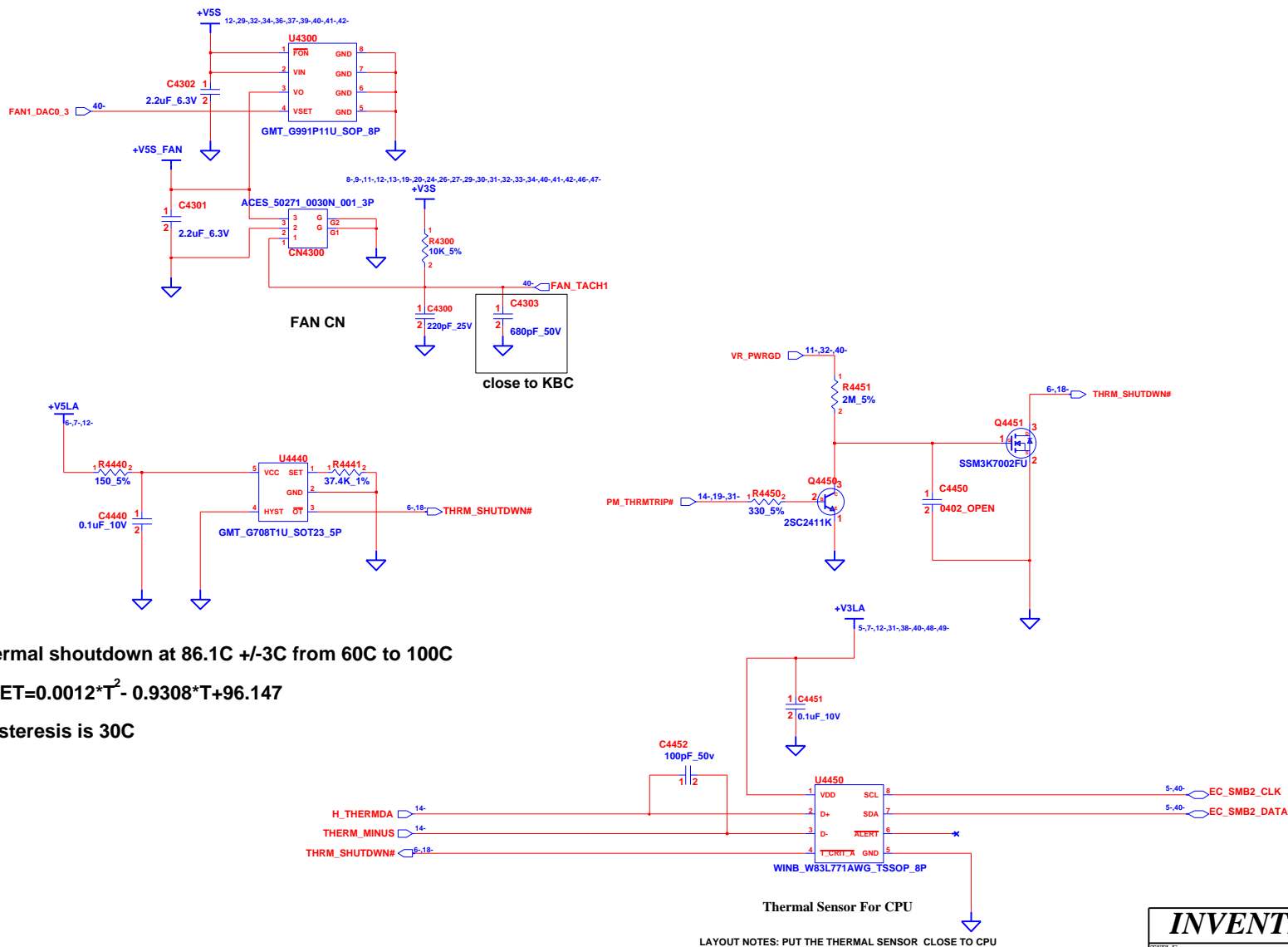
CHANGE by KOBE 23-Mar-2010

SHEET 15 OF 52

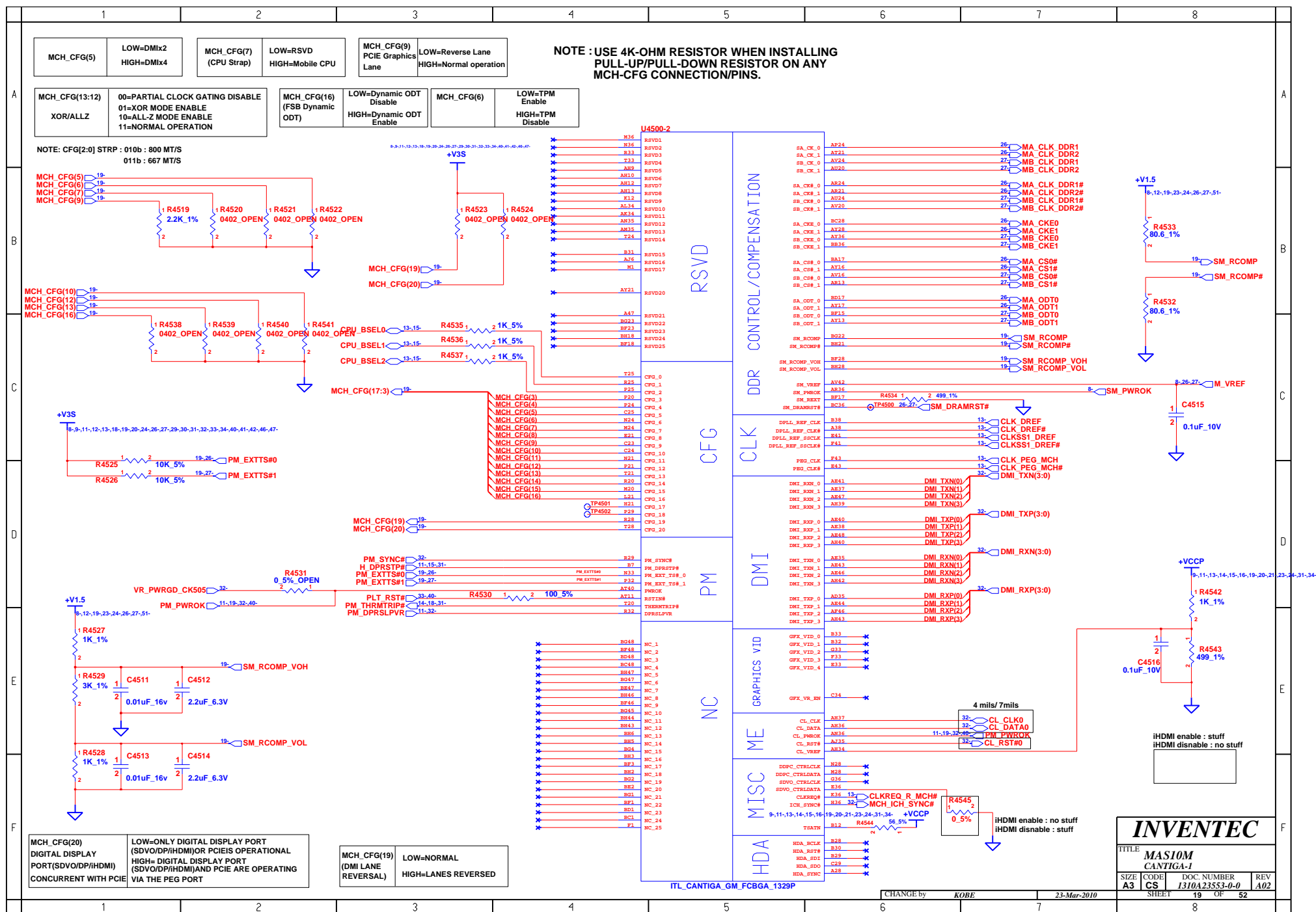


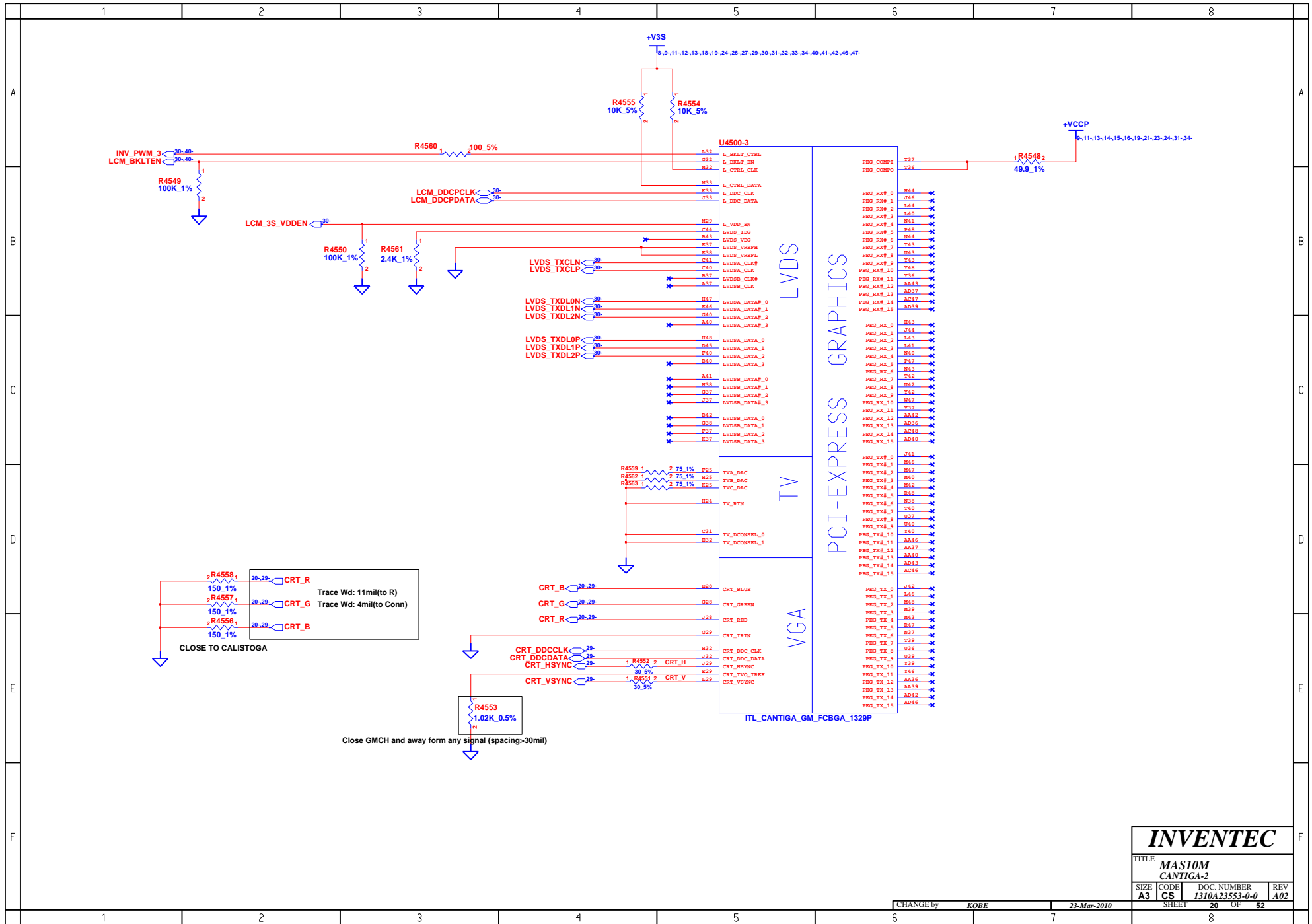
INVENTEC

TITLE MAS10M PENRYN-3			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
CHANGE by KOB		23-Mar-2010	
SHEET 16		OF 52	



INVENTEC			
TITLE			
MAS10M			
THERMAL&FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
CHANGE by		23-Mar-2010	
SHEET		18	OF 52

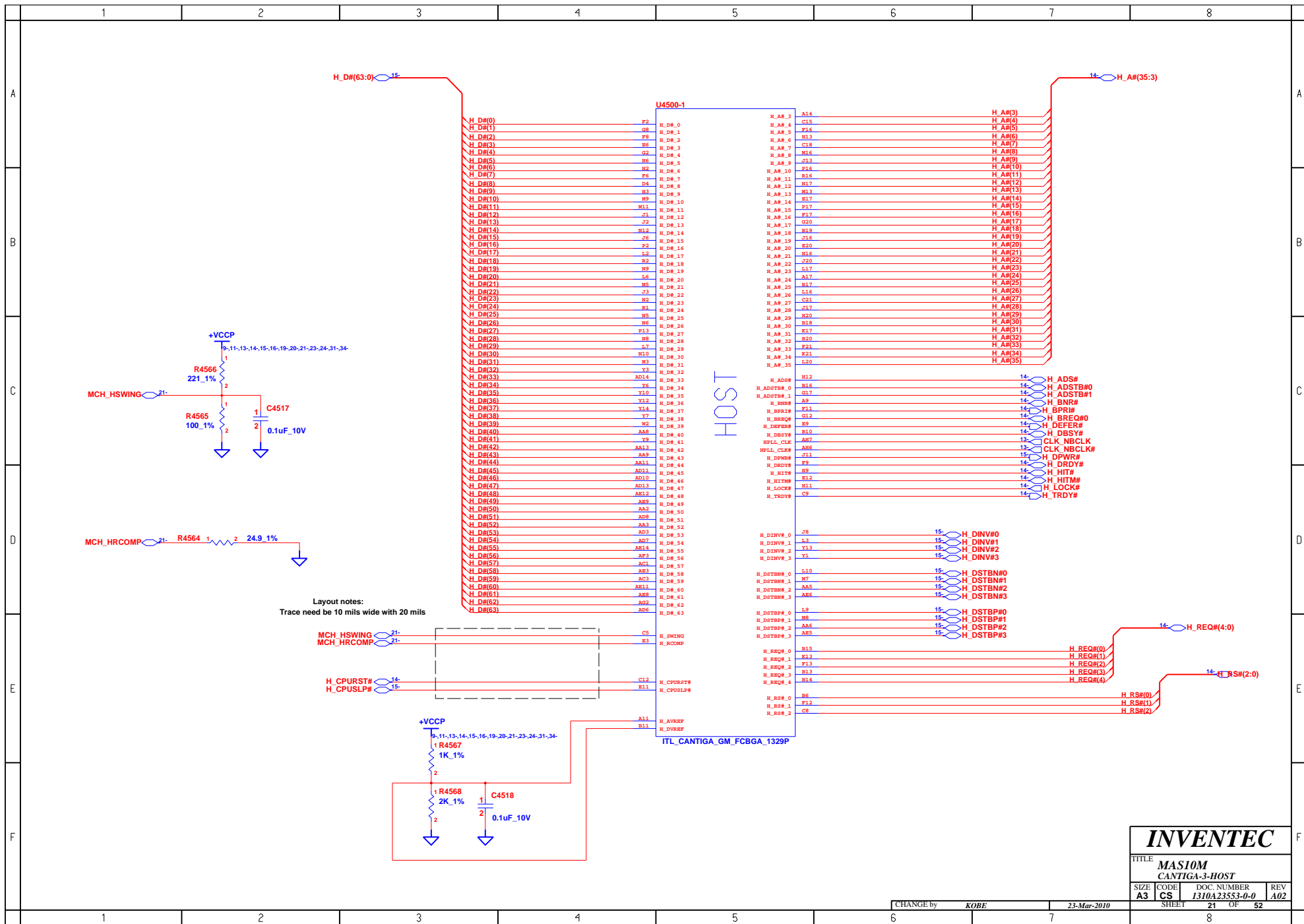




INVENTEC

TITLE			
MAS10M CANTIGA-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		20	OF 52

CHANGE by KOBE 23-Mar-2010

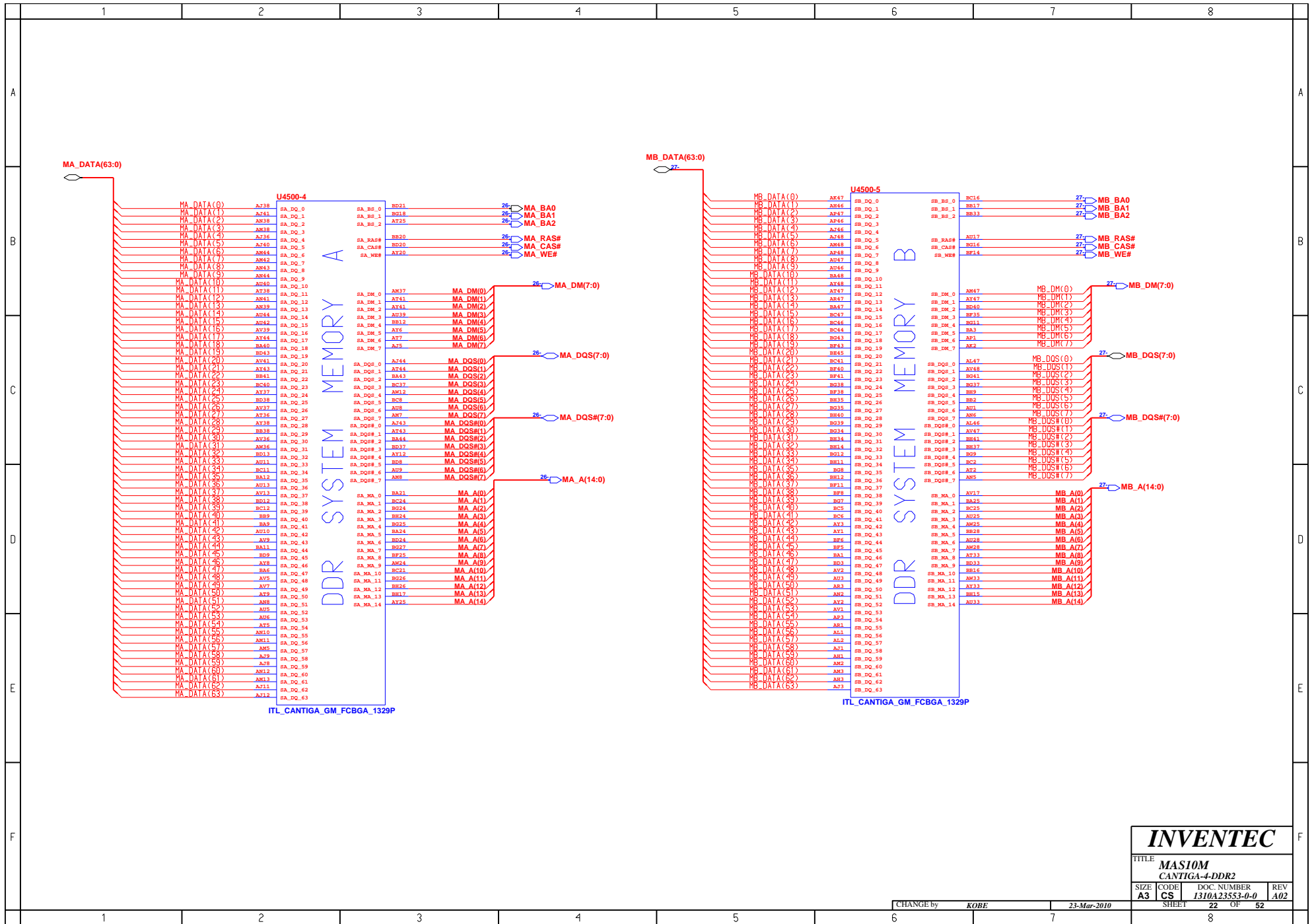


INVENTEC

TITLE MAS10M CANTIGA-3-HOST			
SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02

CHANGE by KOBE 23-Mar-2010

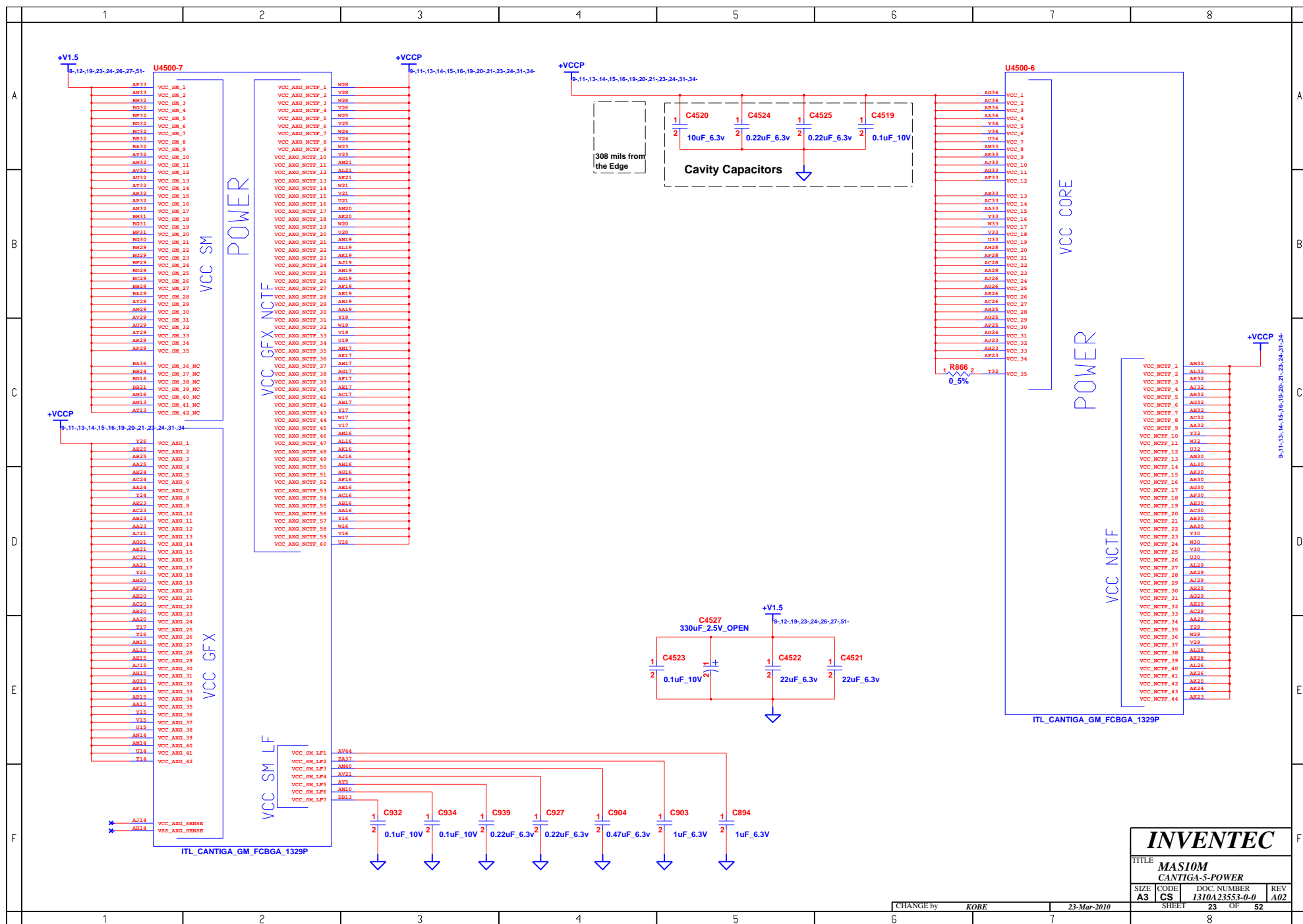
SHEET 21 OF 52

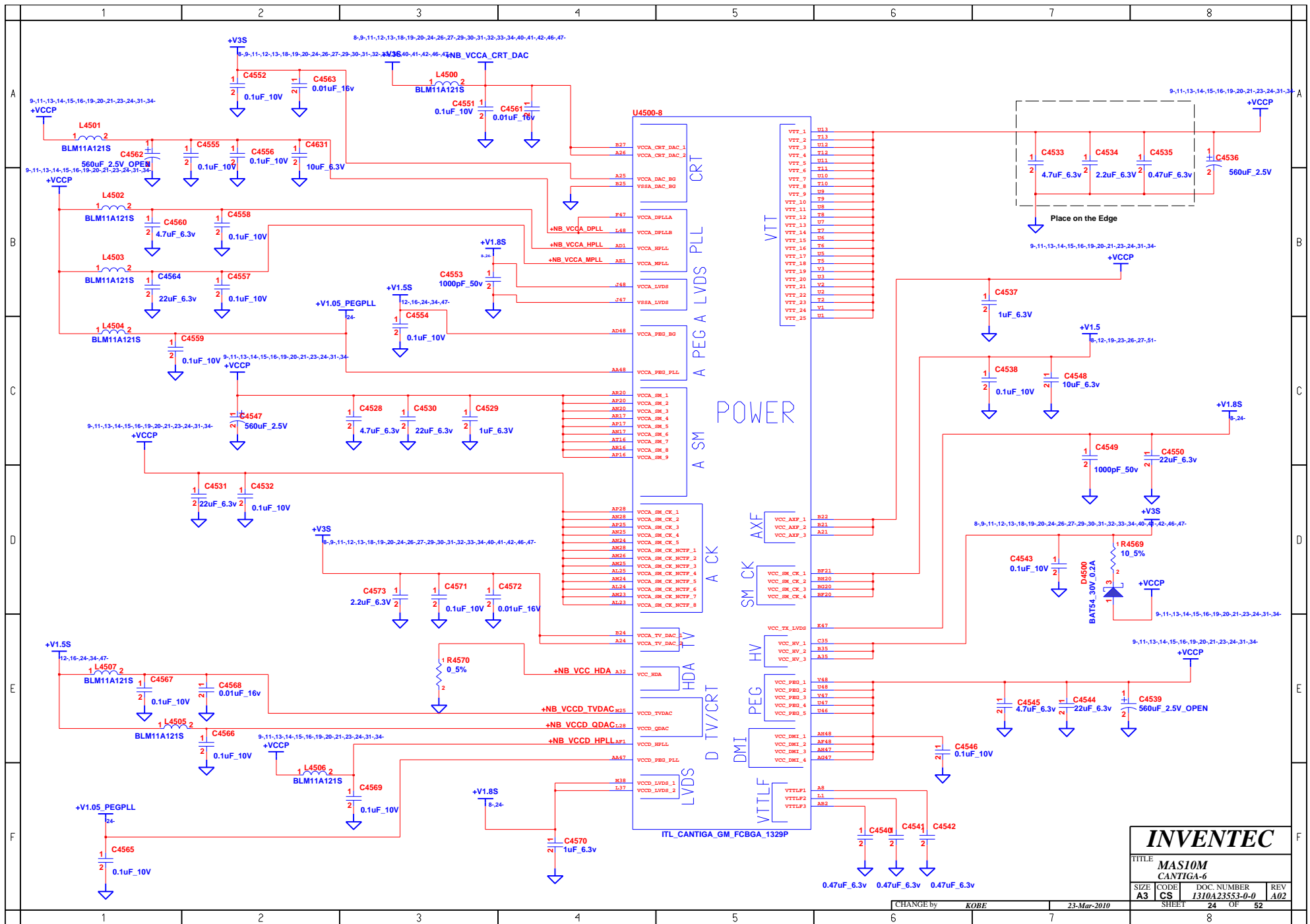


INVENTEC

TITLE			
MAS10M CANTIGA-4-DDR2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
SHEET		22	OF 52

CHANGE by KOBE 23-Mar-2010



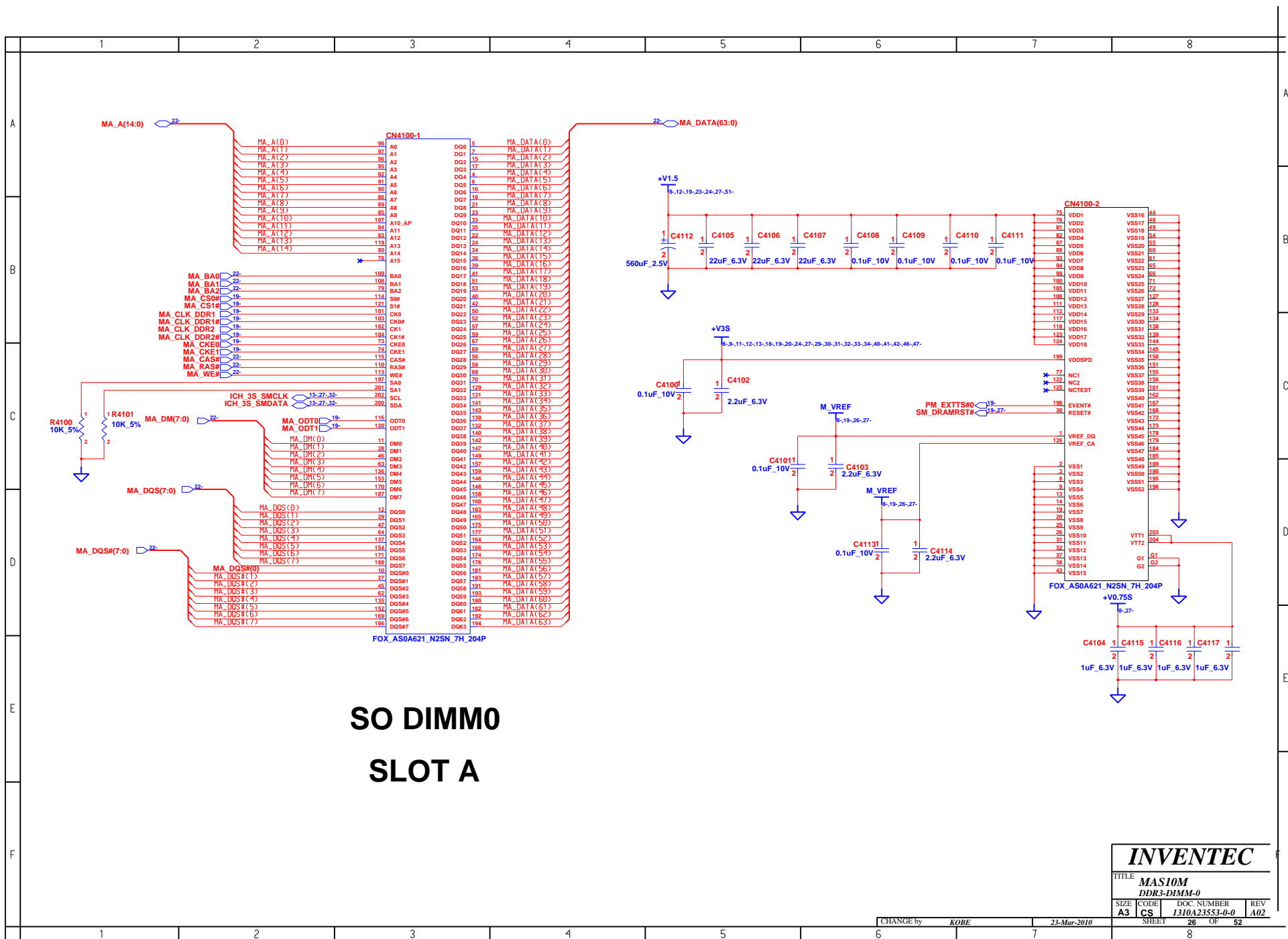


INVENTEC

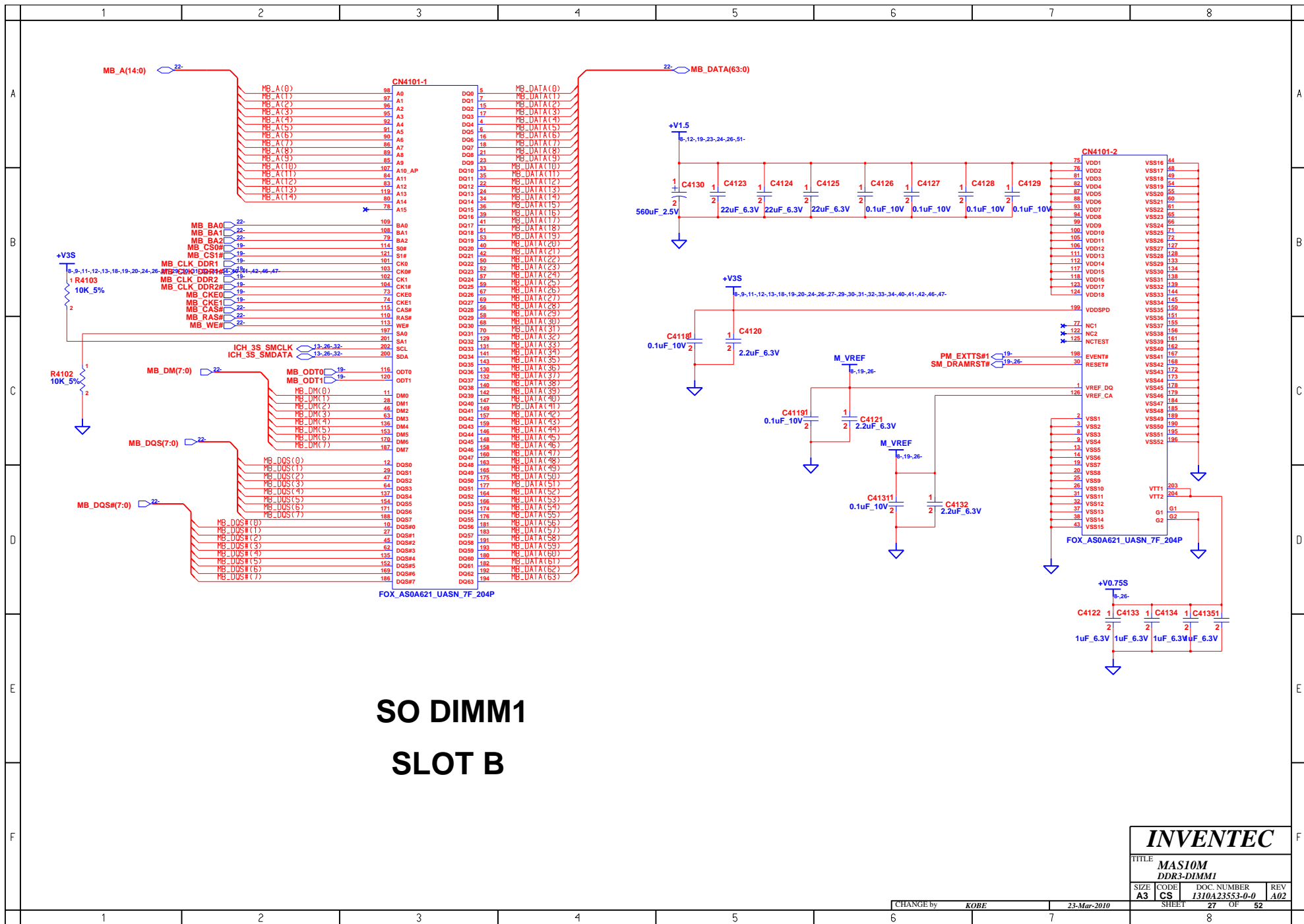
TITLE			
MAS10M CANTIGA-6			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		24	OF 52

CHANGE by ROBE 23-Mar-2010

[illegible]



INVENTEC			
TITLE			
MAS10M			
DDR3-DIMM-0			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
CHANGE by		23-Mar-2010	
SHEET		26	OF 52



SO DIMM1
SLOT B

INVENTEC

TITLE
MAS10M
DDR3-DIMM1

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

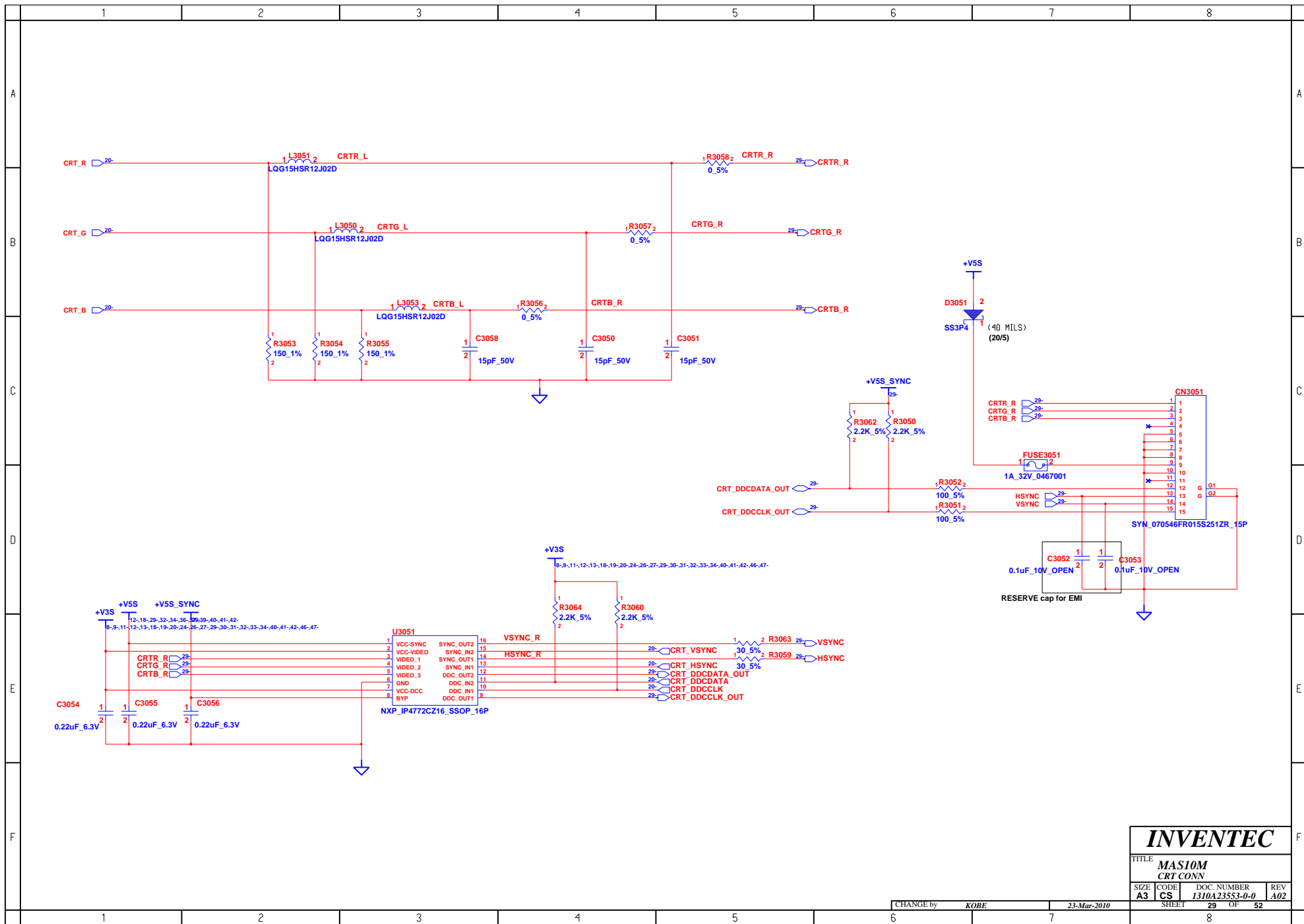
CHANGE by KOBE 23-Mar-2010

SHEET 27 OF 52

	1	2	3	4	5	6	7	8	
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 MAS10M BLANK			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET		28	OF 52

CHANGE by **KOBE** 27-Sep-2003

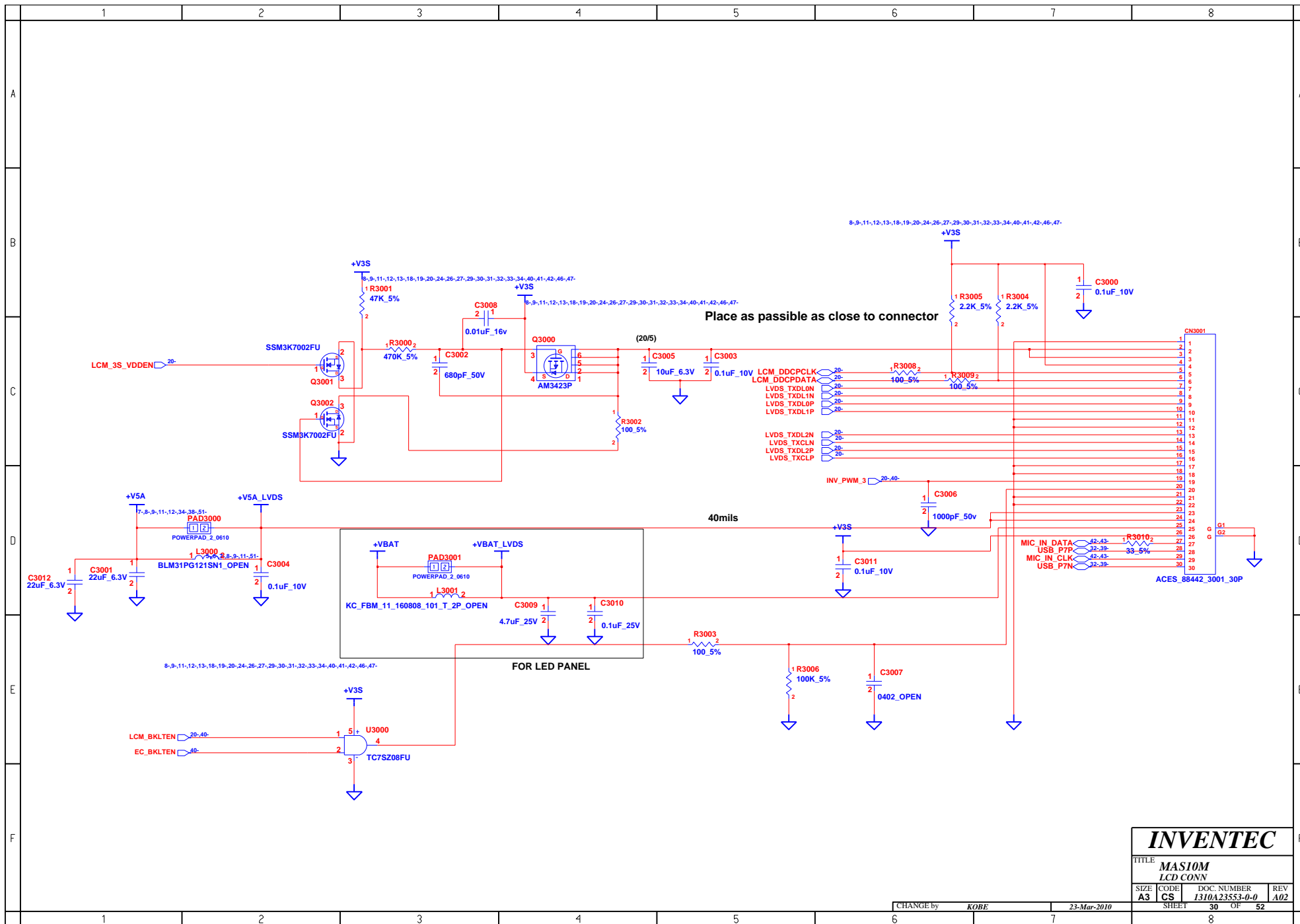


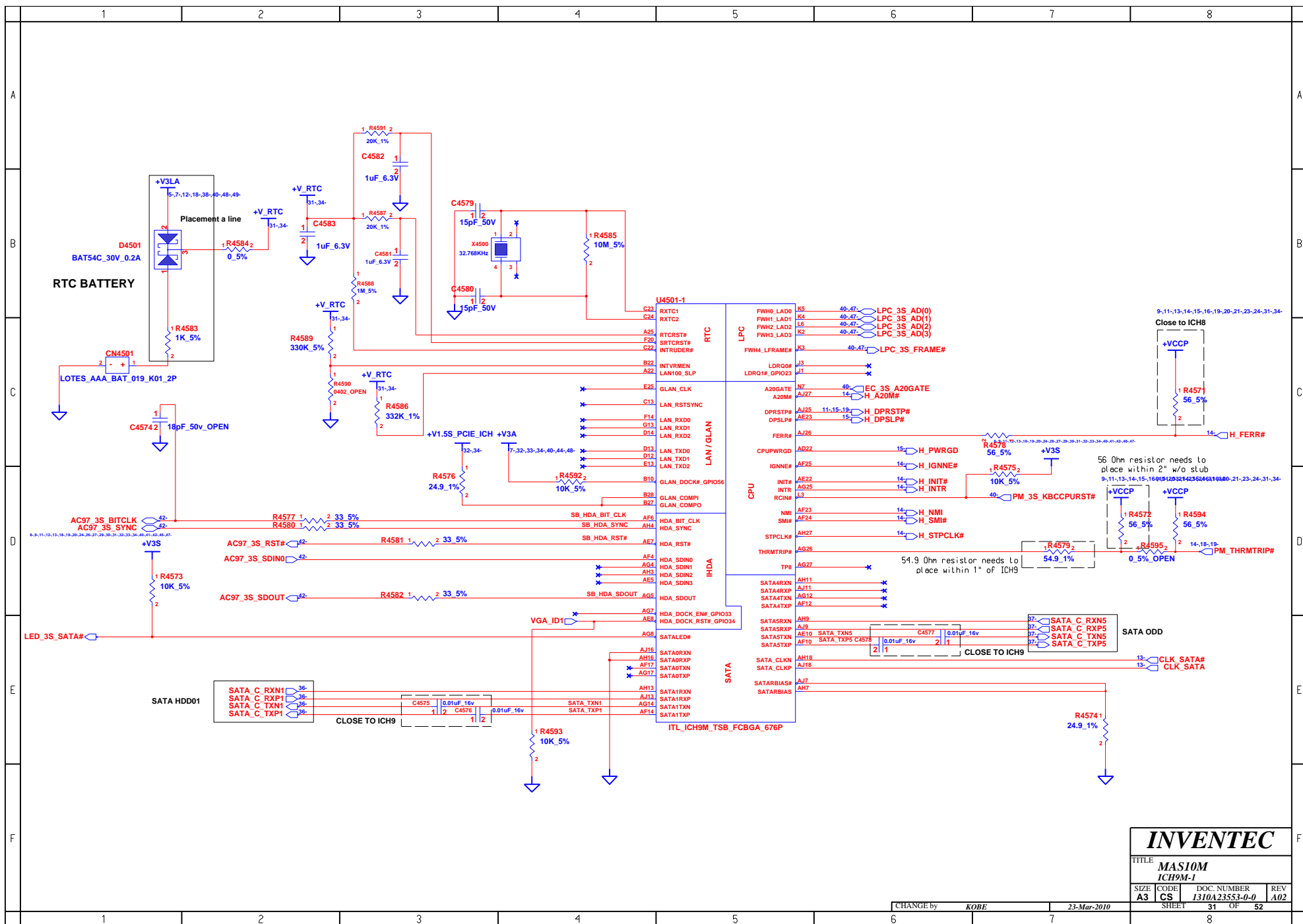
INVENTEC

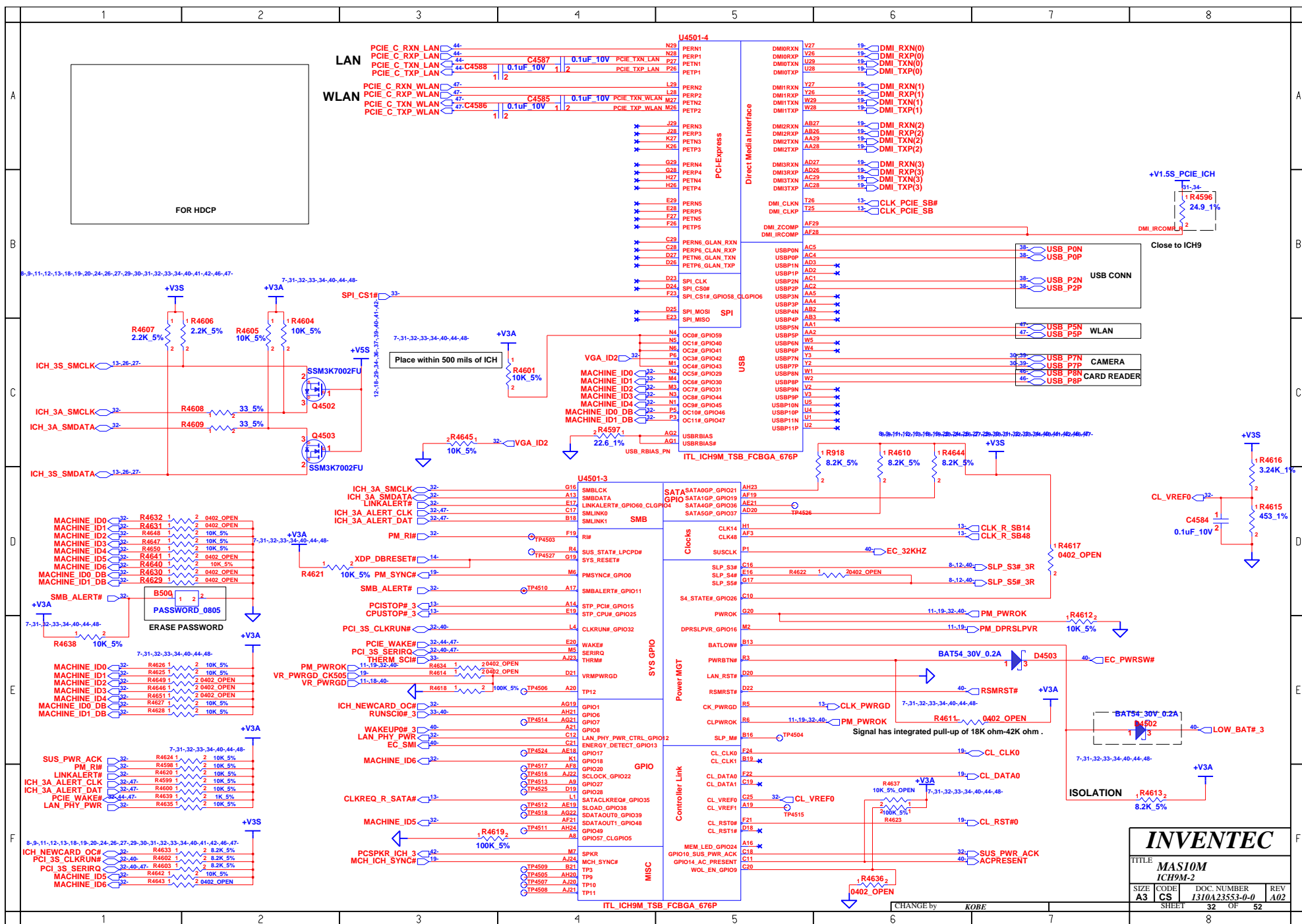
TITLE MAS10M CRT CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02

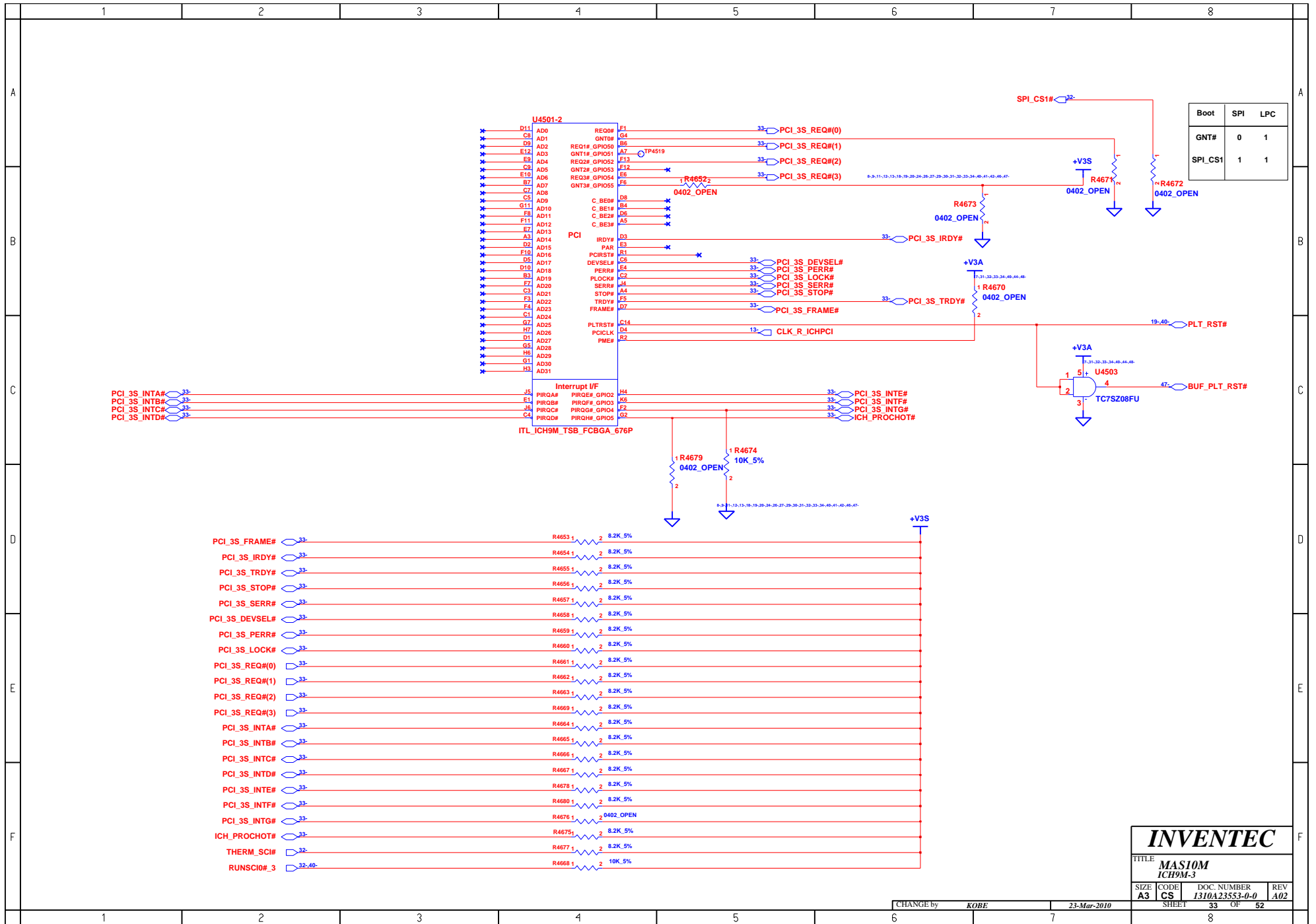
CHANGE by KOBE 23-Mar-2010

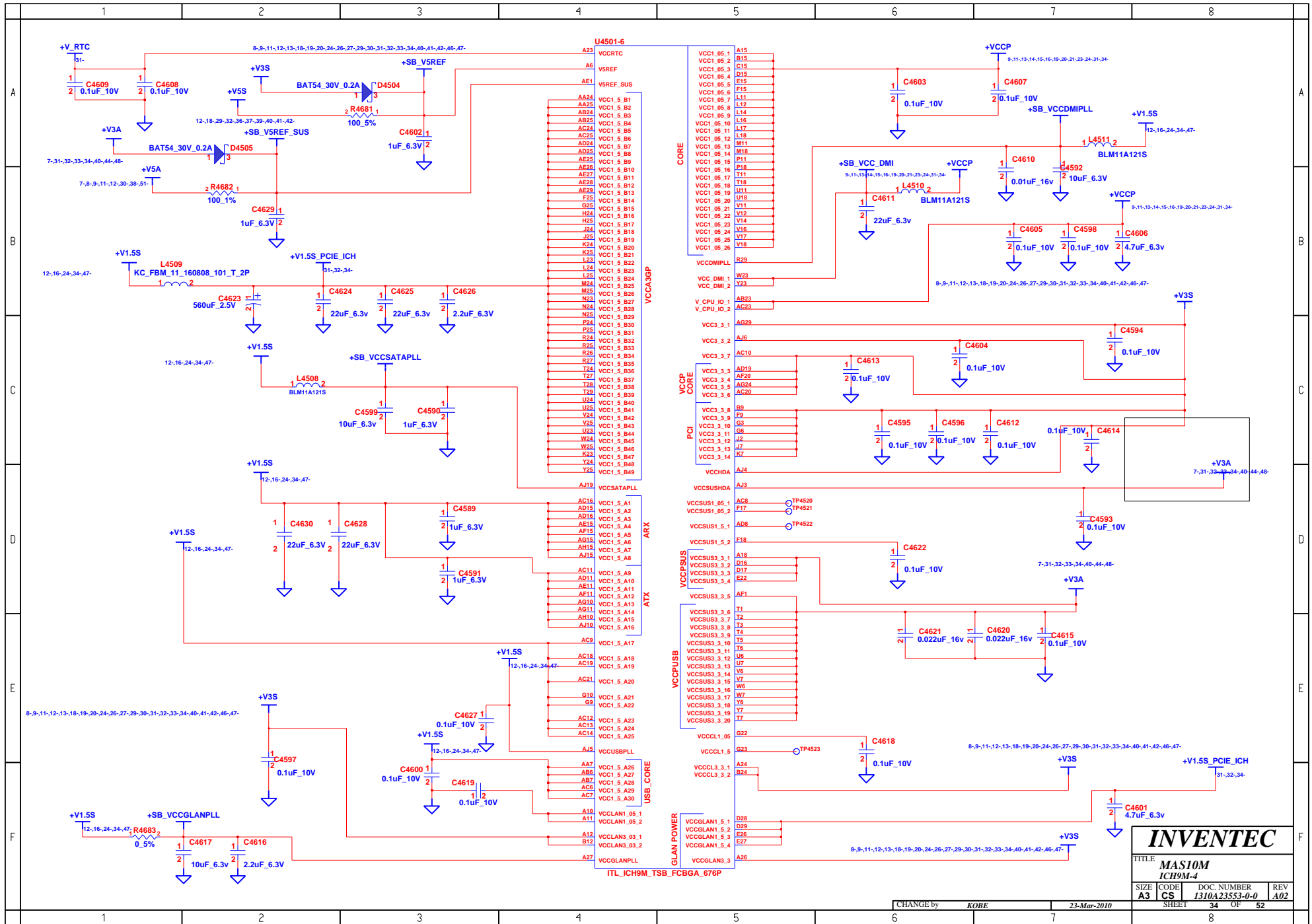
SHEET 29 OF 52











INVENTEC

TITLE: MAS10M ICH9M-4

SIZE: A3 CODE: CS DOC. NUMBER: 1310A23553-0-0 REV: A02

SHEET: 34 OF 52

CHANGE by: KOBE 23-Mar-2010

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

U4501-5

AA26 VSS001 VSS107 H5

AA27 VSS002 VSS108 J23

AA3 VSS003 VSS109 J26

AA4 VSS004 VSS110 J27

AB1 VSS005 VSS111 AC22

AA23 VSS006 VSS112 K28

AB26 VSS007 VSS113 K29

AB25 VSS008 VSS114 L13

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

AD12 VSS017 VSS123 M14

AD13 VSS018 VSS124 M15

AD14 VSS019 VSS125 M16

AD17 VSS020 VSS126 M17

AD18 VSS021 VSS127 M23

AD21 VSS022 VSS128 M28

AD25 VSS023 VSS129 M29

AD23 VSS024 VSS130 N11

AD4 VSS025 VSS131 N12

AD5 VSS026 VSS132 N13

AD6 VSS027 VSS133 N14

AD7 VSS028 VSS134 N15

AD9 VSS029 VSS135 N16

AE13 VSS030 VSS136 N17

AE13 VSS031 VSS137 N18

AE14 VSS032 VSS138 N26

AE16 VSS033 VSS139 N27

AE17 VSS034 VSS140 P12

AE3 VSS035 VSS141 P13

AE20 VSS036 VSS142 P14

AE24 VSS037 VSS143 P15

AE3 VSS038 VSS144 P16

AE4 VSS039 VSS145 P17

AE5 VSS040 VSS146 P2

AE9 VSS041 VSS147 P23

AF13 VSS042 VSS148 P28

AF16 VSS043 VSS149 P29

AF18 VSS044 VSS150 P4

AF24 VSS045 VSS151 P7

AH25 VSS046 VSS152 R11

AF28 VSS047 VSS153 R12

AF27 VSS048 VSS154 R13

AF3 VSS049 VSS155 R14

AF7 VSS050 VSS156 R15

AF9 VSS051 VSS157 R16

AG13 VSS052 VSS158 R17

AG16 VSS053 VSS159 R18

AG18 VSS054 VSS160 R28

AG20 VSS055 VSS161 T12

AG23 VSS056 VSS162 T13

AG5 VSS057 VSS163 T14

AG5 VSS058 VSS164 T15

AG9 VSS059 VSS165 T16

AH12 VSS060 VSS166 T17

AH14 VSS061 VSS167 T23

AH17 VSS062 VSS168 B26

AH19 VSS063 VSS169 U12

AH2 VSS064 VSS170 U13

AH22 VSS065 VSS171 U14

AH23 VSS066 VSS172 U15

AH28 VSS067 VSS173 U16

AH5 VSS068 VSS174 U17

AH5 VSS069 VSS175 AD23

AJ12 VSS070 VSS176 U26

AJ14 VSS071 VSS177 U27

AJ17 VSS072 VSS178 U3

AJ8 VSS073 VSS179 V1

B11 VSS074 VSS180 V13

B14 VSS075 VSS181 V15

B17 VSS076 VSS182 V23

B3 VSS077 VSS183 V28

B20 VSS078 VSS184 V29

B23 VSS079 VSS185 V4

B5 VSS080 VSS186 V5

B5 VSS081 VSS187 W26

C26 VSS082 VSS188 W27

C27 VSS083 VSS189 W3

E11 VSS084 VSS189 Y1

E14 VSS085 VSS190 Y28

E18 VSS086 VSS191 Y29

ER VSS087 VSS193 Y4

E21 VSS088 VSS194 Y5

E24 VSS089 VSS195 AG28

E5 VSS090 VSS196 AH6

ER VSS091 VSS197 AF2

F16 VSS092 VSS198 B25

F28 VSS093

F29 VSS094 VSS_NCTF1 A1

G14 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

G27 VSS101 VSS_NCTF8 AJ2

H3 VSS102 VSS_NCTF9 AJ28

H3 VSS103 VSS_NCTF10 AJ29

H28 VSS104 VSS_NCTF11 B1

H28 VSS105 VSS_NCTF12 B29

H28 VSS106

ITL ICH9M_TSB_FCBGA_676P

CHANGE by

KOBE

23-Mar-2010

SIZE

A3

CODE

CS

DOC. NUMBER

1310A23553-0-0

REV

A02

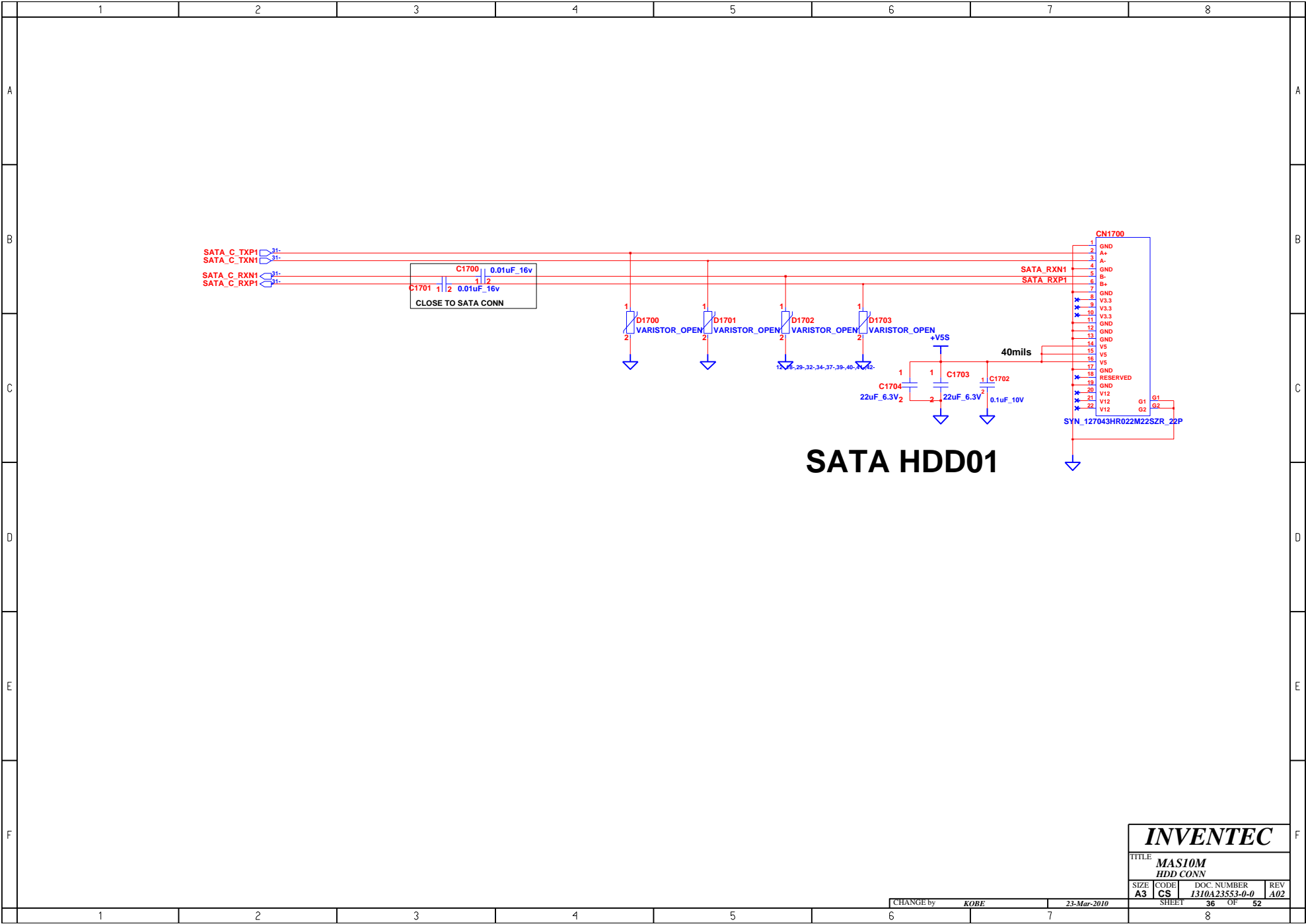
SHEET

35

OF

52

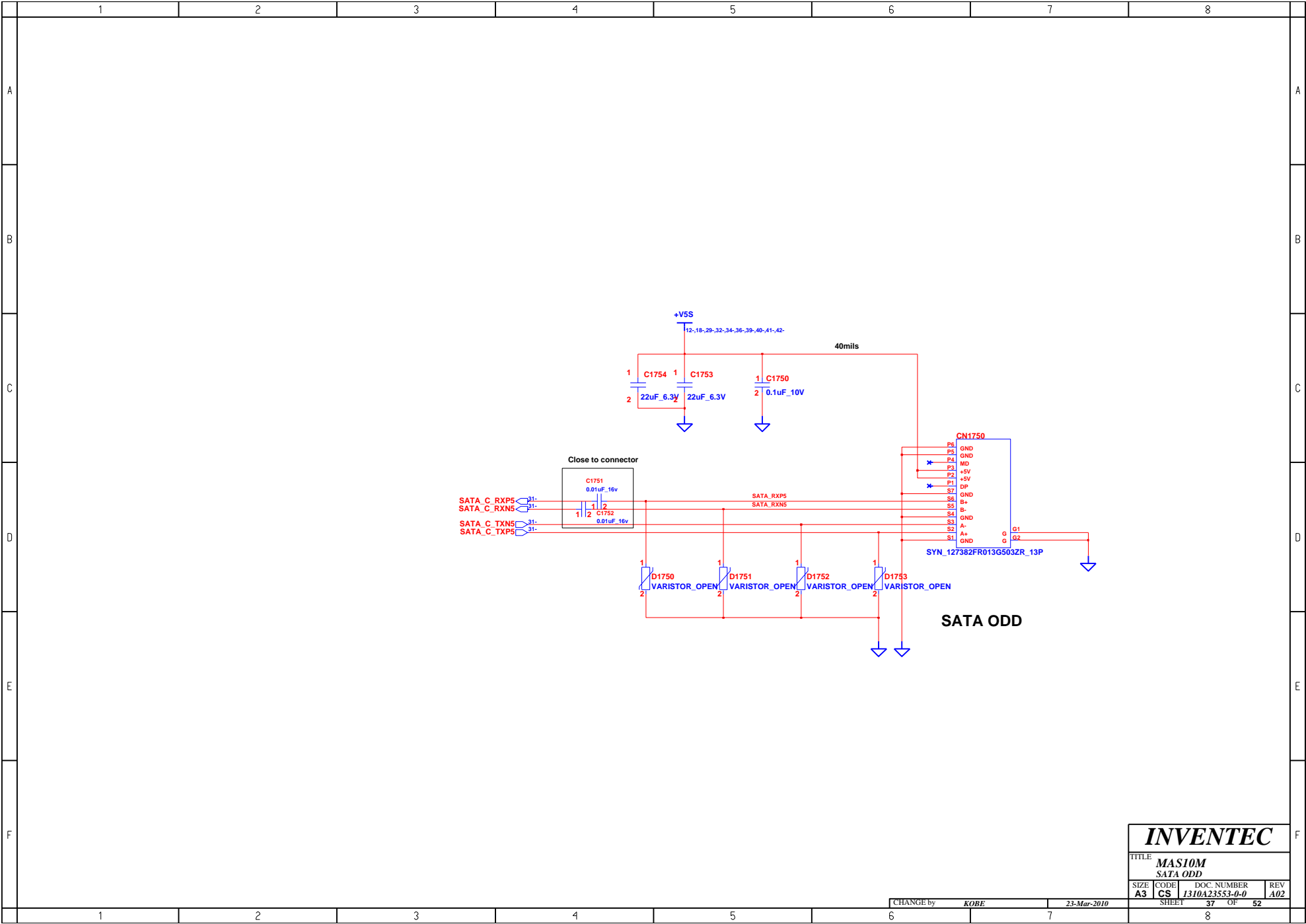
8



INVENTEC

TITLE			
MAS10M			
HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		36	OF 52

CHANGE by KOBE 23-Mar-2010



INVENTEC

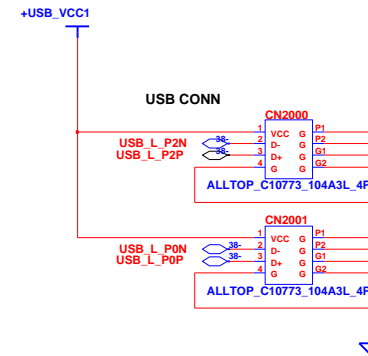
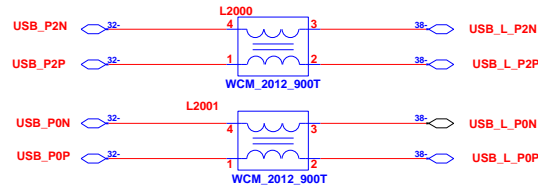
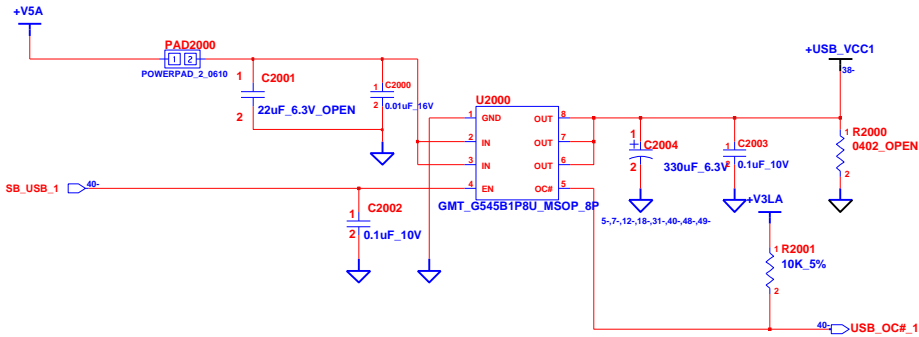
TITLE
MAS10M
SATA ODD

SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

CHANGE by **KOBE** 23-Mar-2010

SHEET 37 OF 52

7,-8,-9,-11,-12,-30,-34,-51-



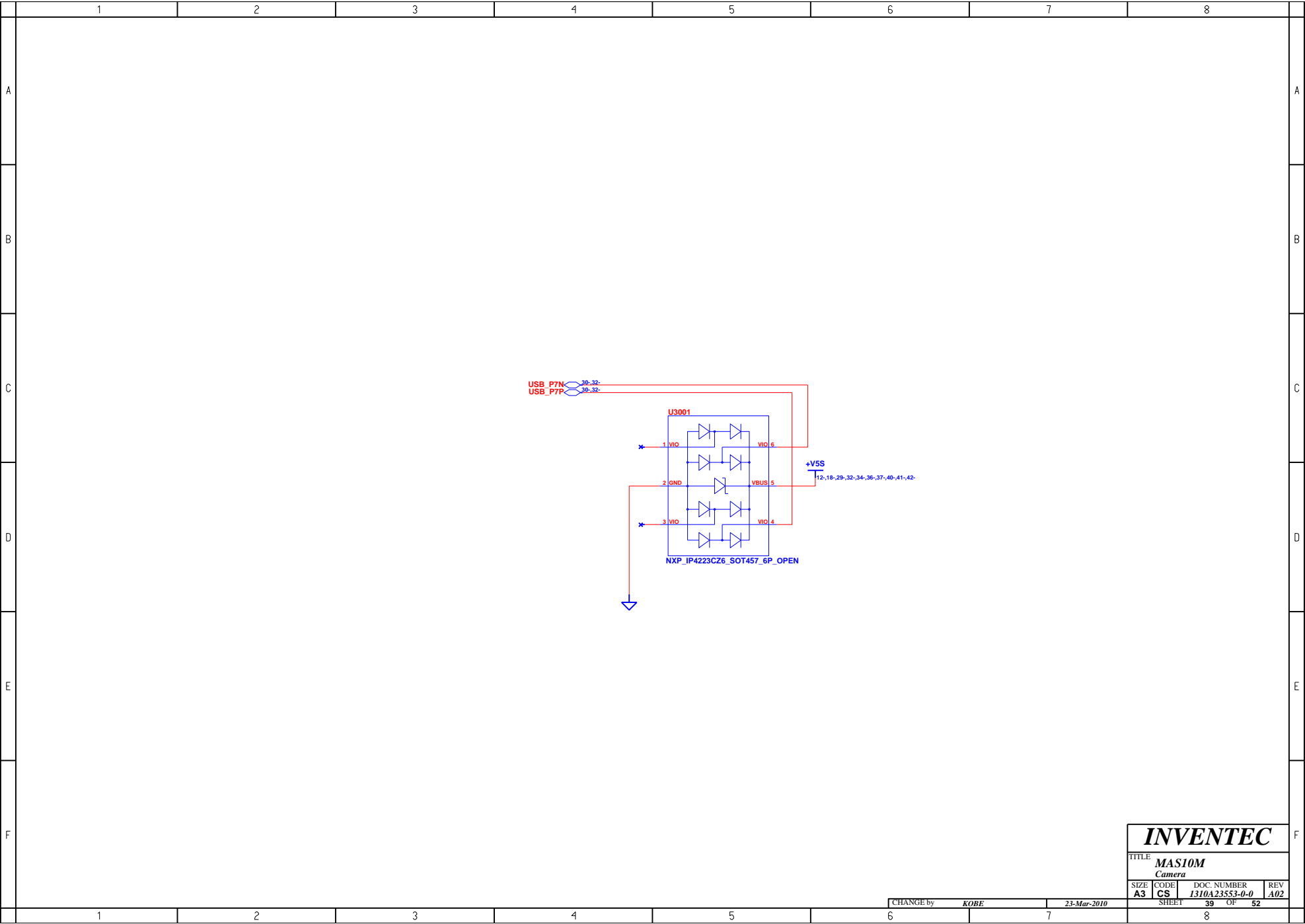
INVENTEC

TITLE
MAS10M
USB CONN/USB(DB)

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

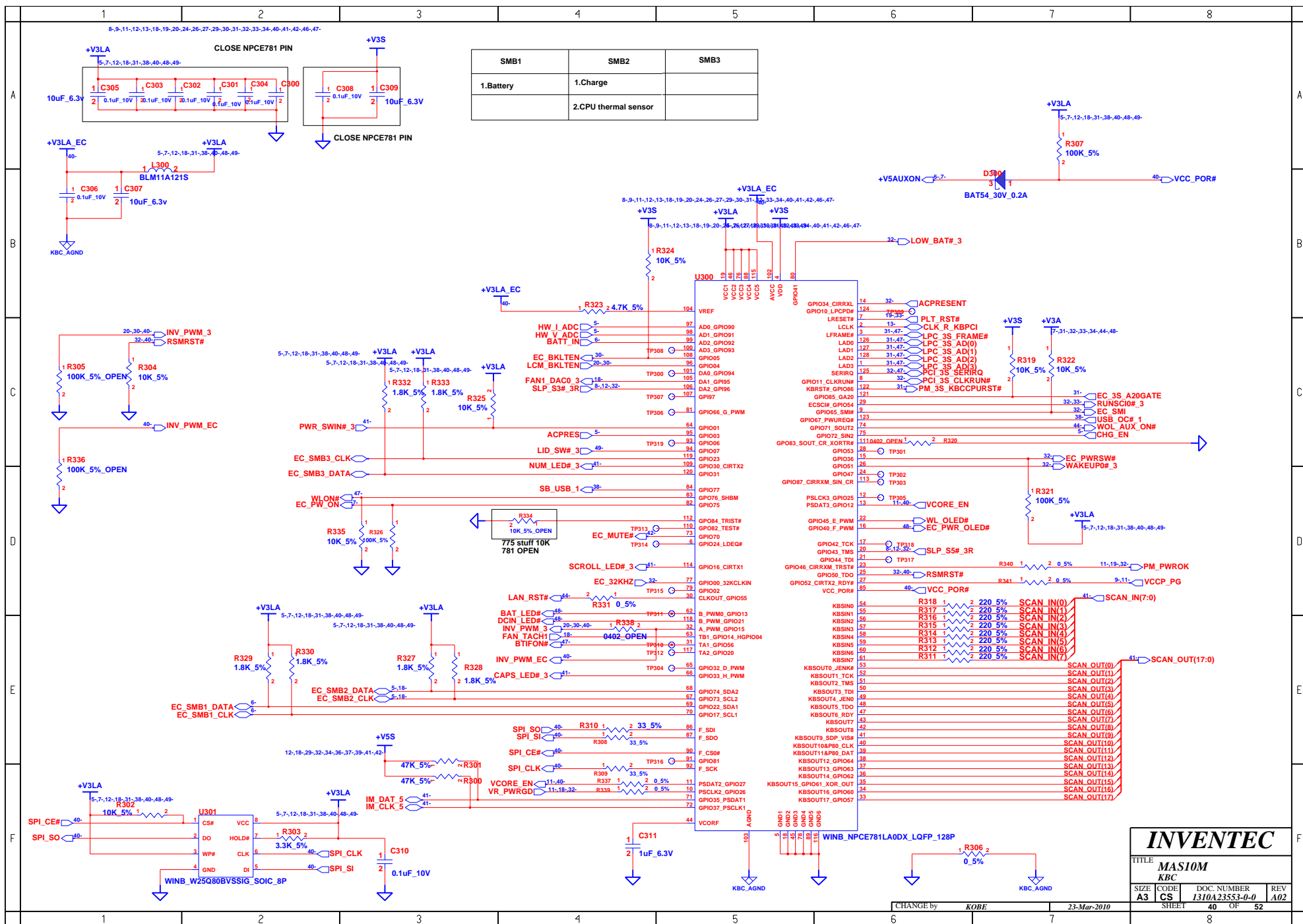
CHANGE by **KOBE** 23-Mar-2010

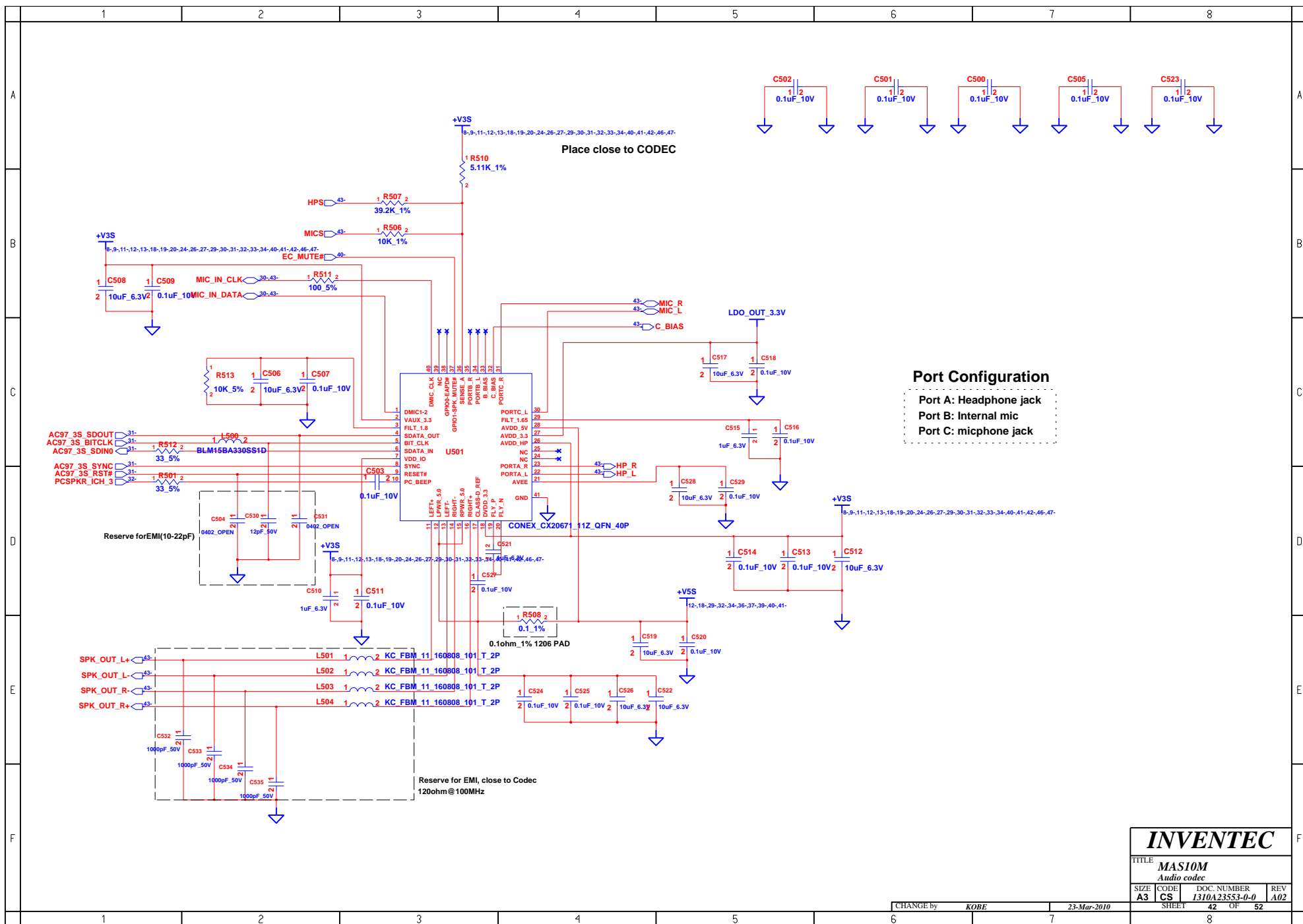
SHEET 38 OF 52



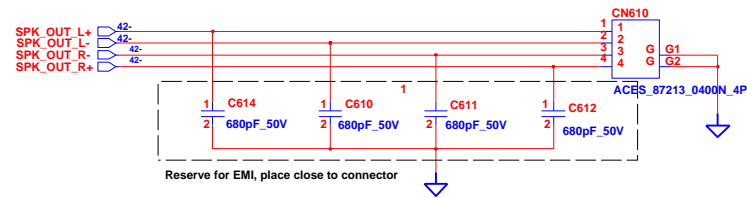
INVENTEC

TITLE			
MAS10M			
Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		39	OF 52

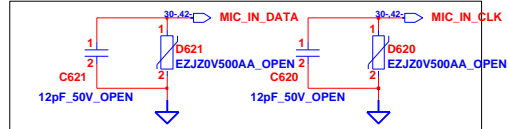




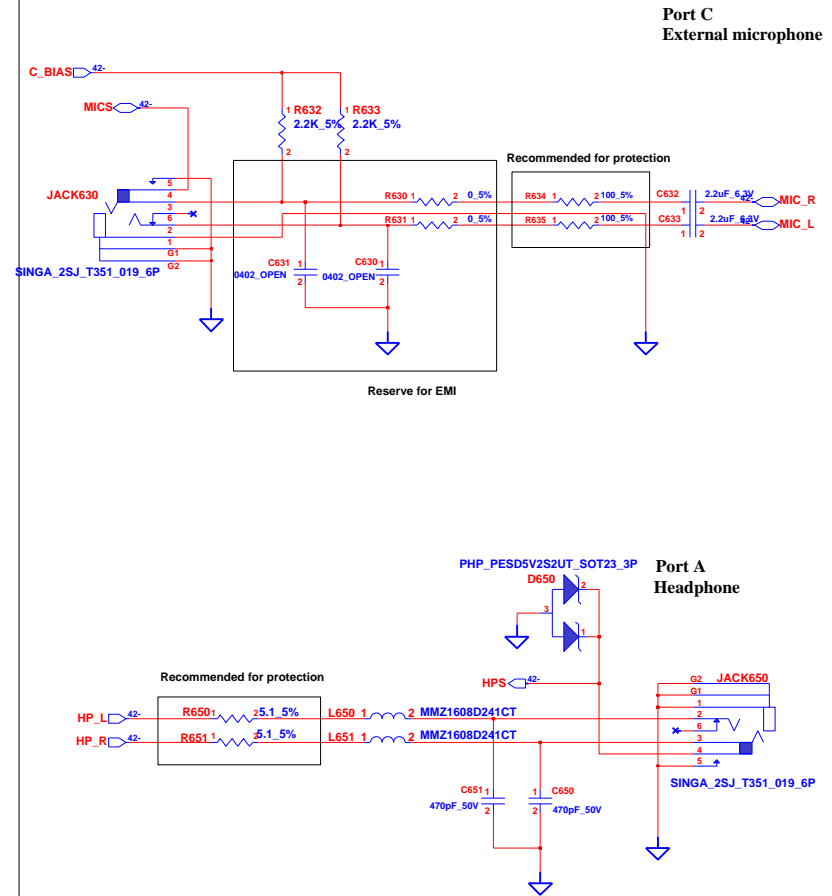
INTERNAL SPEAKERS



INTERNAL MIC



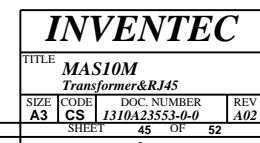
AUDIO JACKS

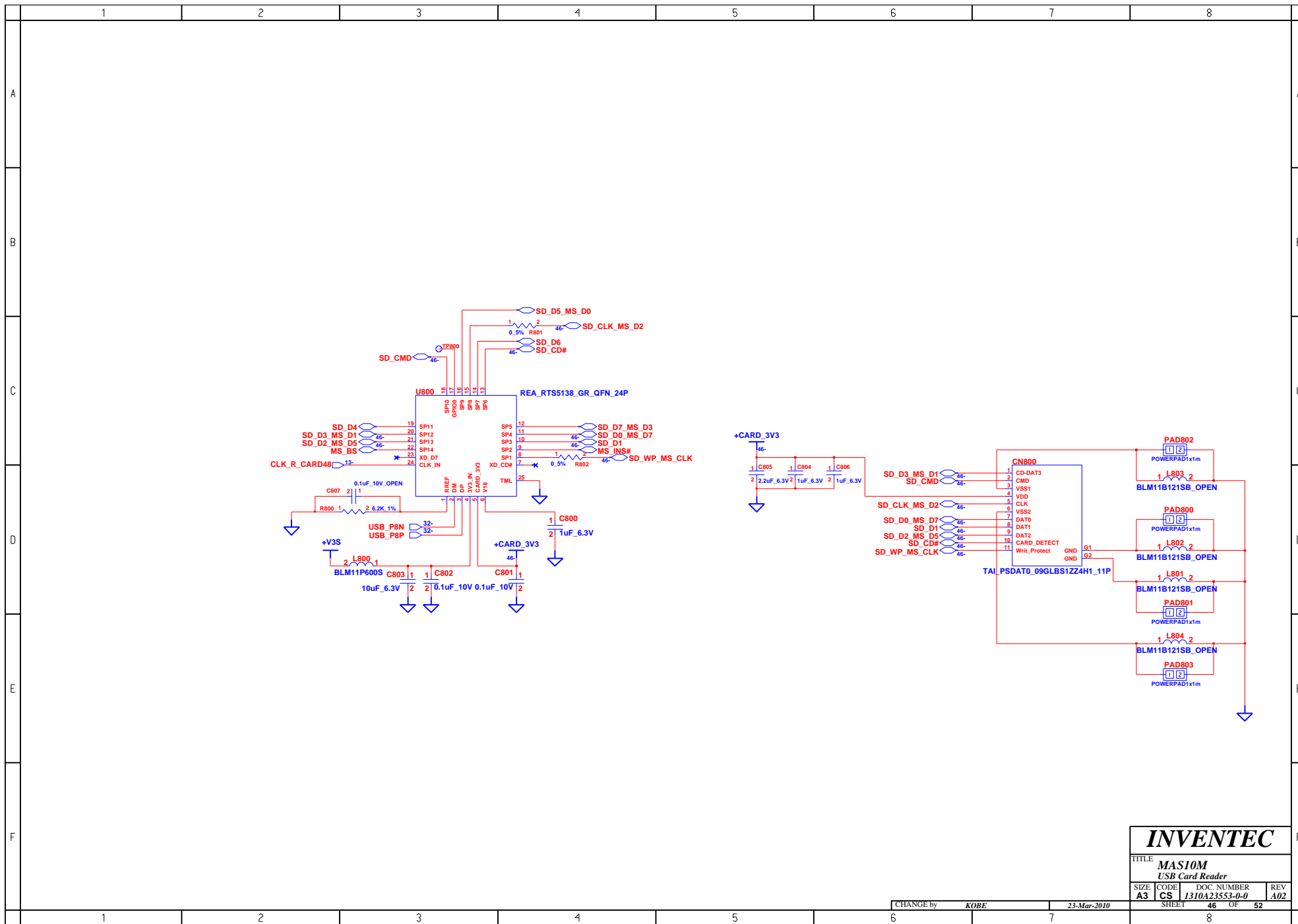


INVENTEC

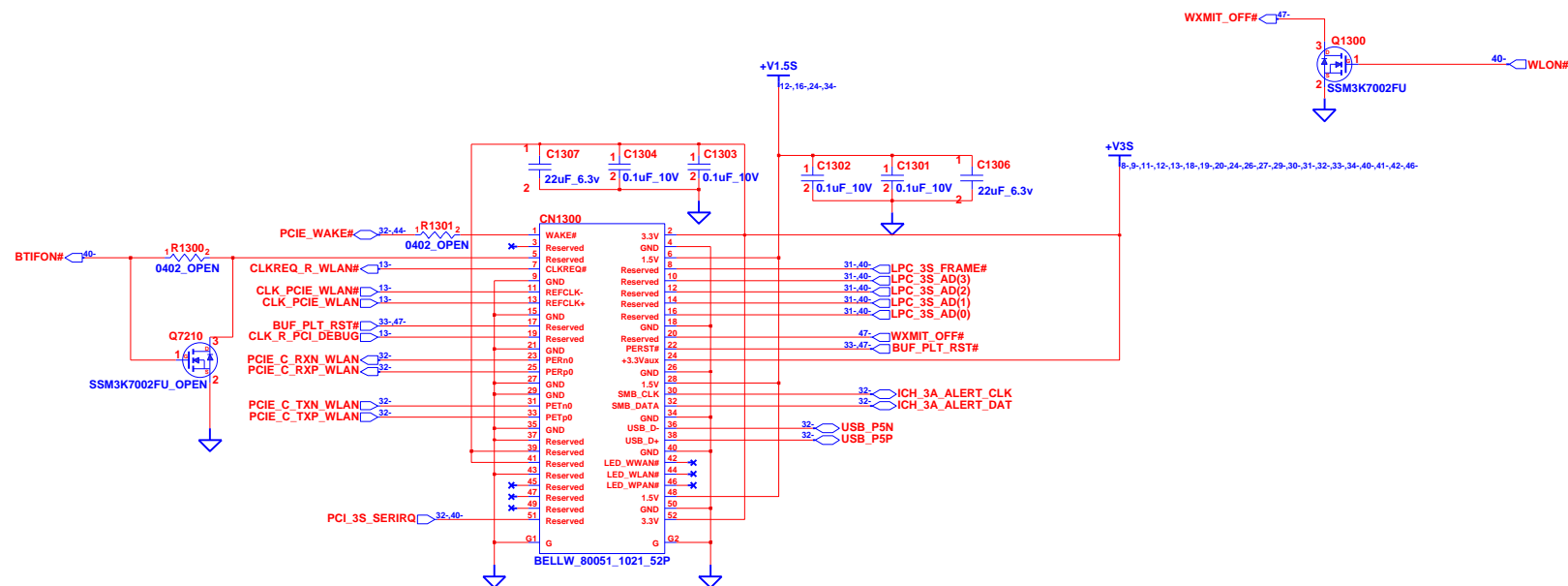
TITLE			
MAS10M			
Audio AMP&MIC&Speaker			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
SHEET		43	OF 52

CHANGE by KOBE 23-Mar-2010





Wireless & Debug card

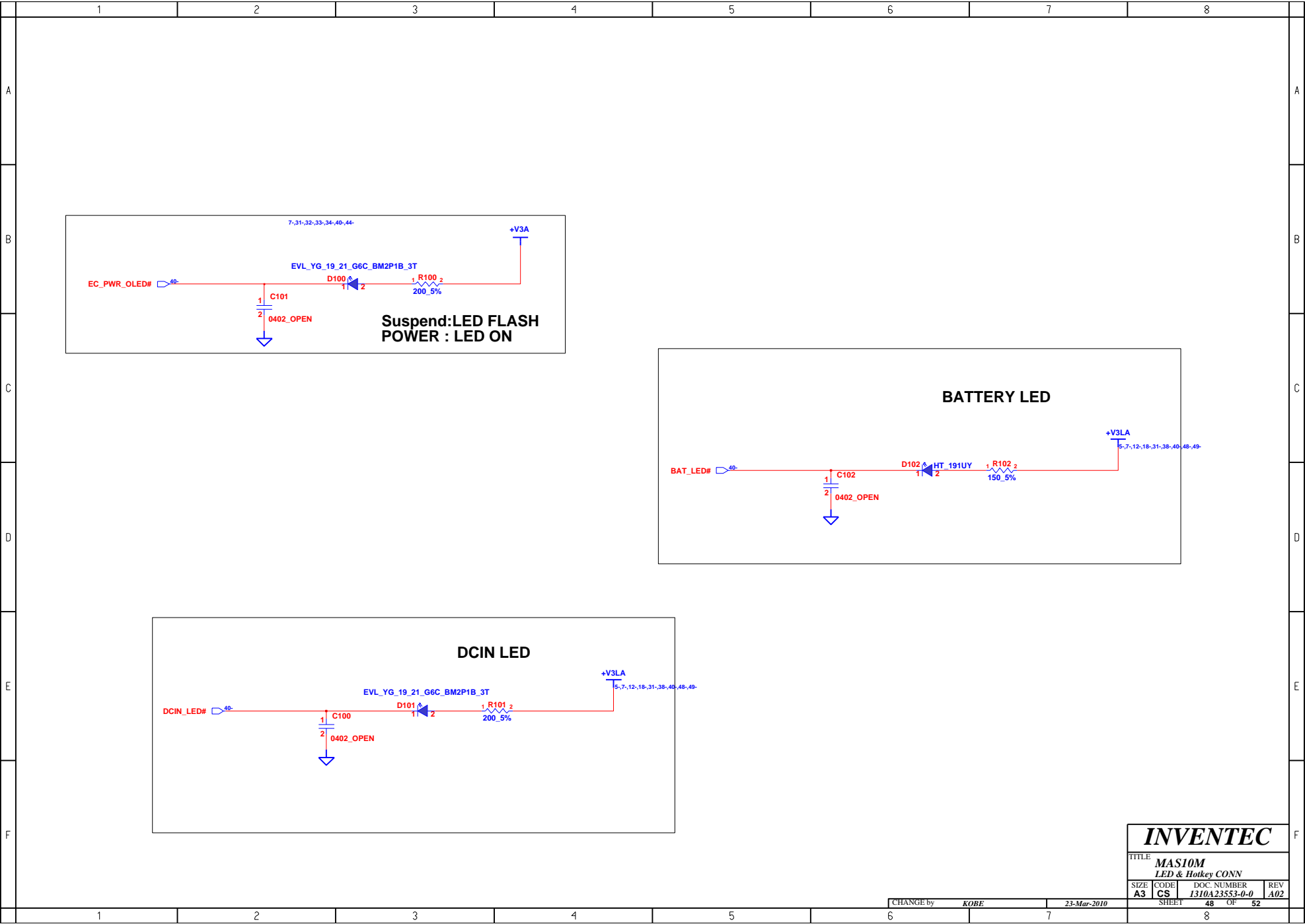


INVENTEC

TITLE			
MAS10M			
Wireless & debug card			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

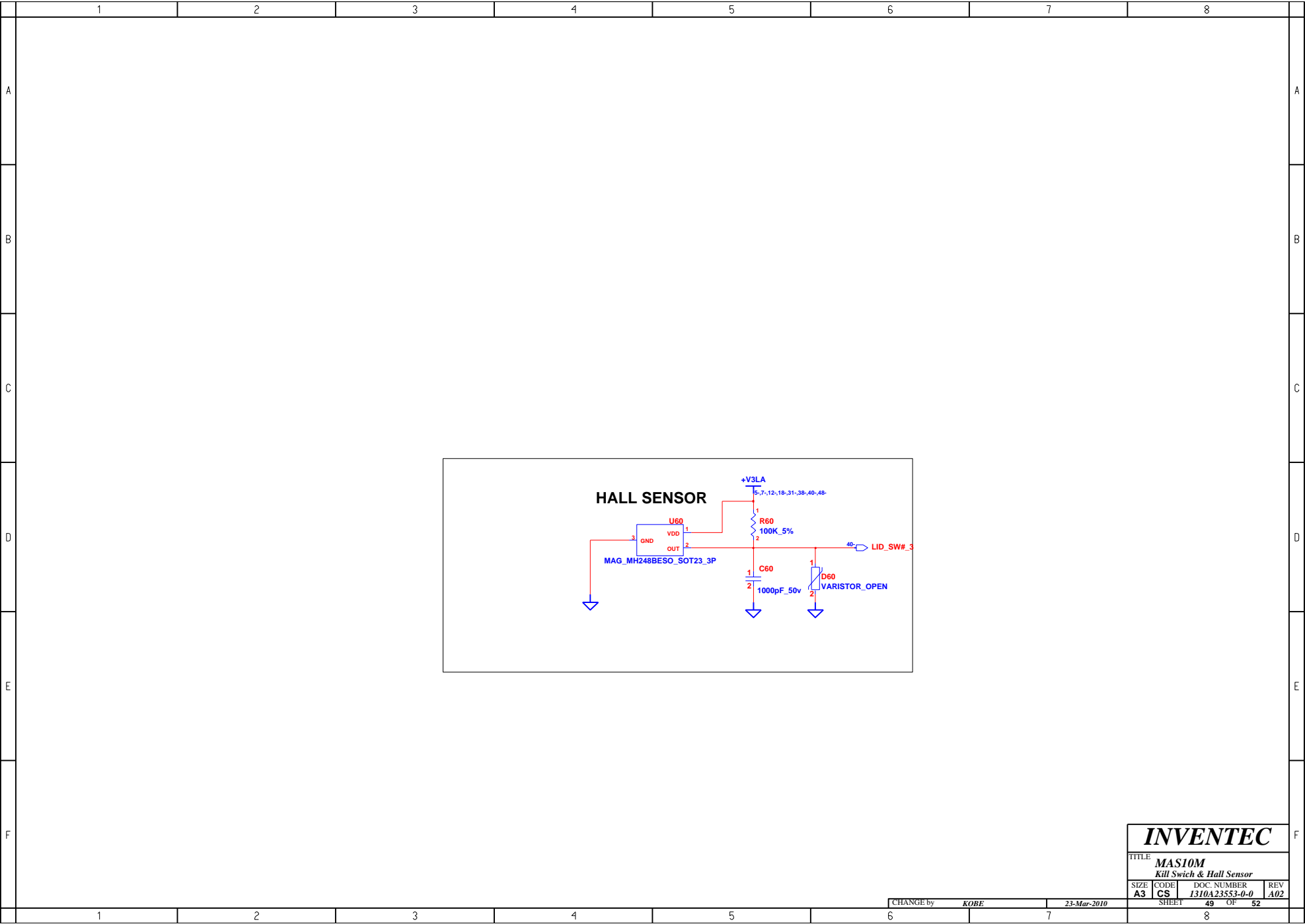
CHANGE by KOBE 23-Mar-2010

SHEET 47 OF 52



INVENTEC

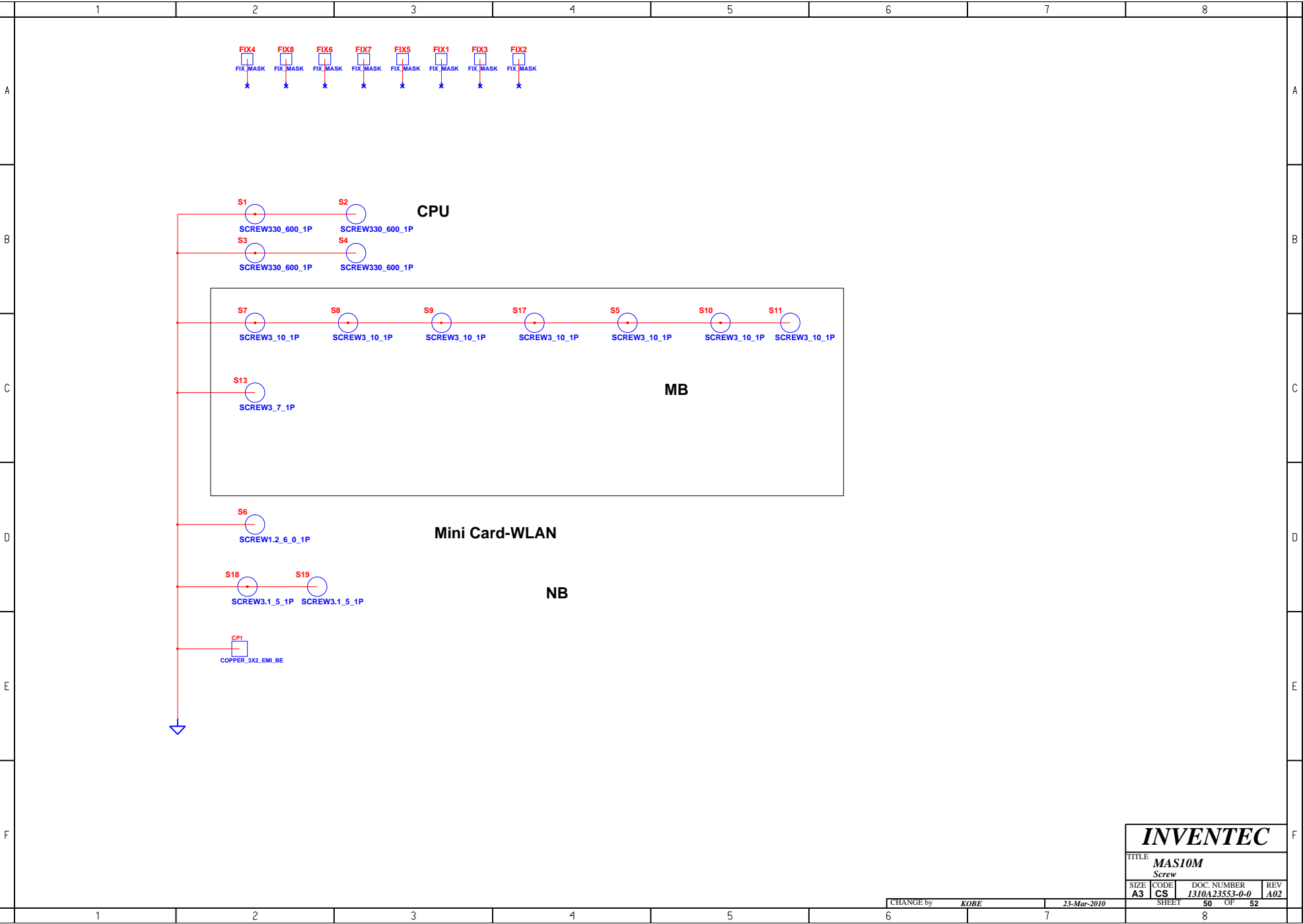
TITLE			
MAS10M			
LED & Hotkey CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		48	OF 52

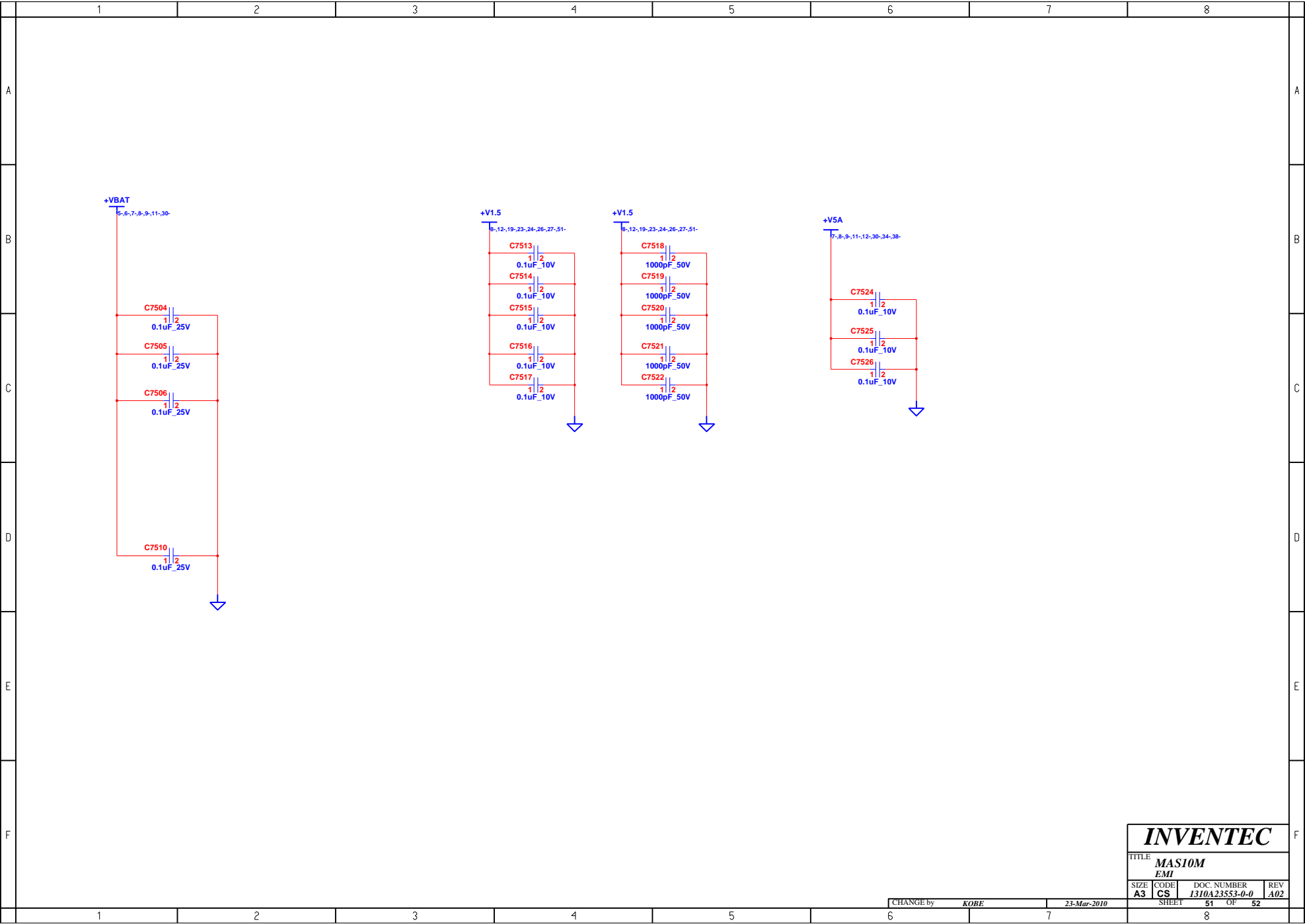


INVENTEC

TITLE			
MAS10M			
Kill Switch & Hall Sensor			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

SHEET	49	OF	52
	8		



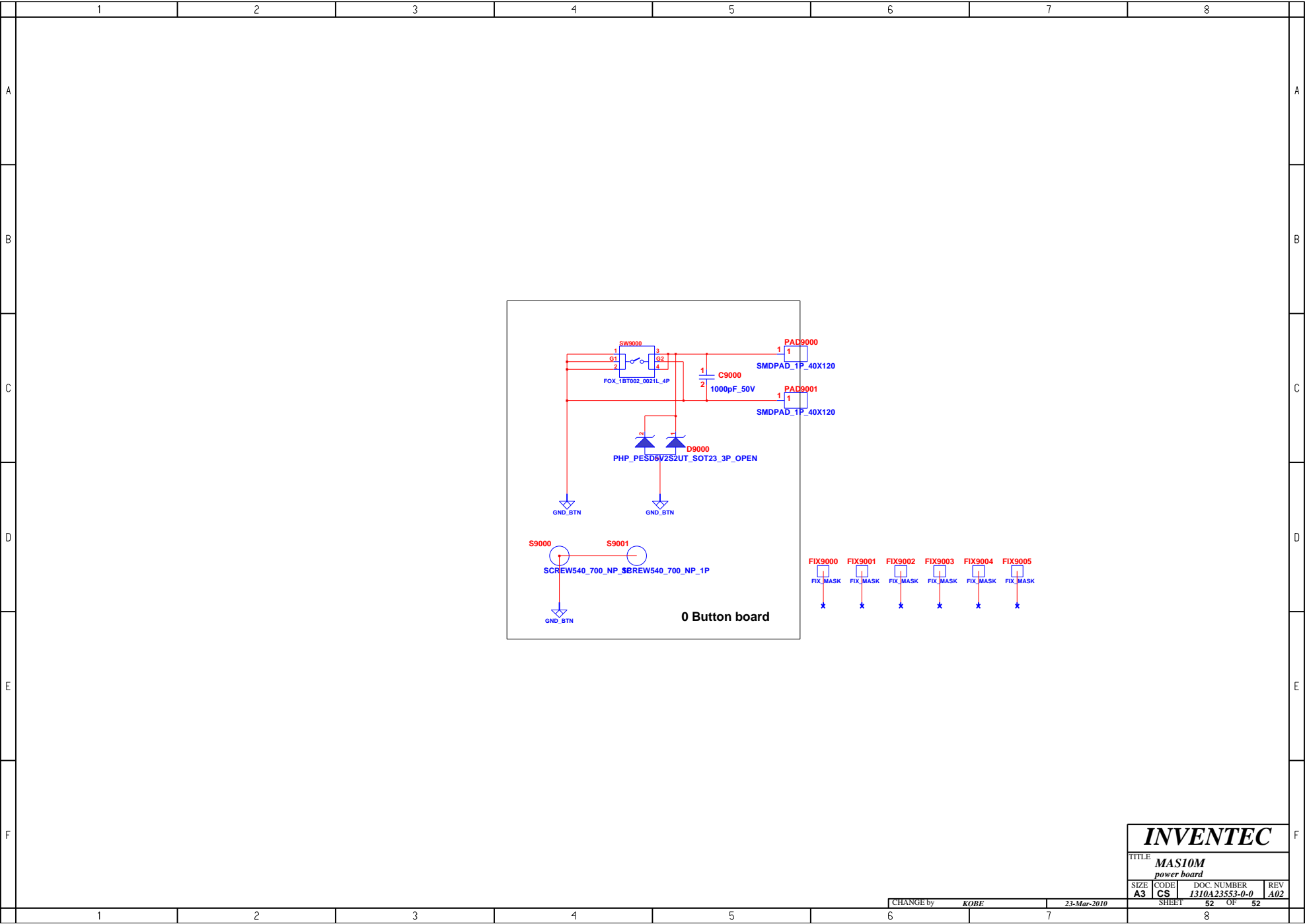


INVENTEC

TITLE			
MAS10M			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 51 OF 52



INVENTEC

TITLE
MAS10M
power board

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

CHANGE by **KOBE** 23-Mar-2010

SHEET 52 OF 52

www.s-manuals.com