

# Milwaukee 10A

## preMP BUILD

2007 0805

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	<b>INVENTEC</b>		
DESIGN					TITLE		
CHECK					MW10A		
RESPONSIBLE							
SIZE = 3					SIZE	CODE	DOC. NUMBER
FILE NAME: XXXX-XXXXXX-XX					A3	CS	6050A2127101
P/N XXXXXXXXXXXX					REV		
					SHEET 1 OF 54		

# TABLE OF CONTENTS

PAGE	PAGE	PAGE
1.COVER PAGE	29.S/B 1	50.LED(M/B) & HOTKEY/B CONN
2.INDEX	30.S/B 2	51.PICK BUTTON BOARD
3.BLOCK DIAGRAM	31.S/B 3	52.KILL SWITCH& HALL SENSOR
4.POWER SEQUENCE BLOCK	32.S/B 4	53.DRILL HOLE
5-12.SYSTEM POWER	33.CARDBUS CONTROLLER	54.EMI
13.CLOCK GENERATOR	34.5 IN 1 CARD SLOT & 1394	
14.CPU 1	35.EXPRESS CARD CONN	
15.CPU 2	36.LAN CONTROLLER	
16.CPU 3	37.RJ45 & TRANSFORMER	
17.CPU 4	38.WLAN & HD_DVD	
18.FAN & THERMAL CONTROLLER	39.SATA HDD1 CONN & SATA HDD2 CONN	
19.N/B 1	40.FELICA & FINGER PRINTER & CAMERA CONN	
20.N/B 2	41.ODD CONN	
21.N/B 3	42.USB CONN	
22.N/B 4	43.BLUE TOOTH CONN	
23.DDR2 DIMM0	44.KBC	
24.DDR2 DIMM1	45.K/B & TP/B CONN	
25.DDR DAMPING	46.CIR	
26.CRT CONN	47.AZALIA CODEC	
27.S-VIDEO CONN	48.AUDIO AMP & MIC & HP	
28.LCM CONN	49.MDC 1.5 CONN	

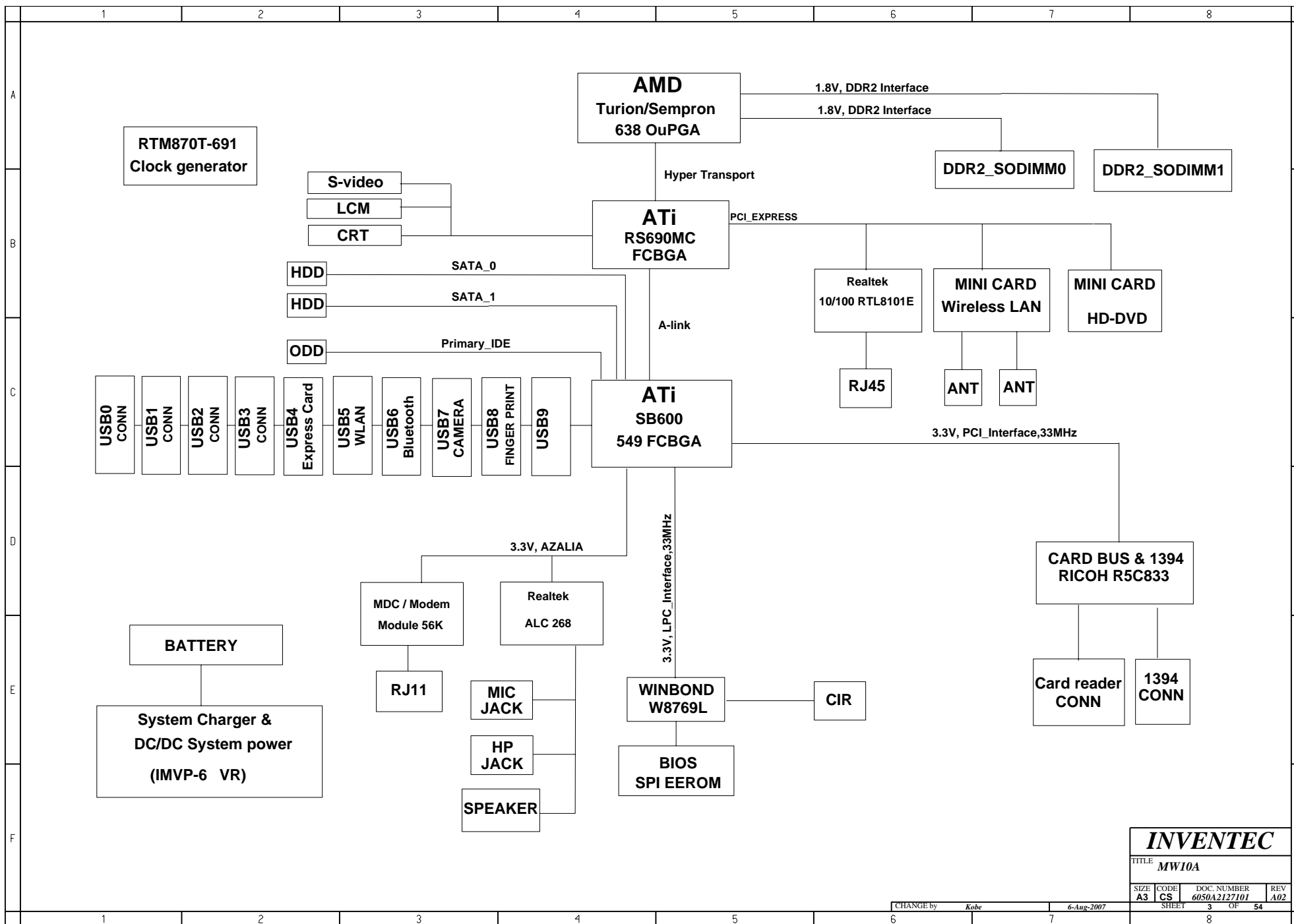
**INVENTEC**

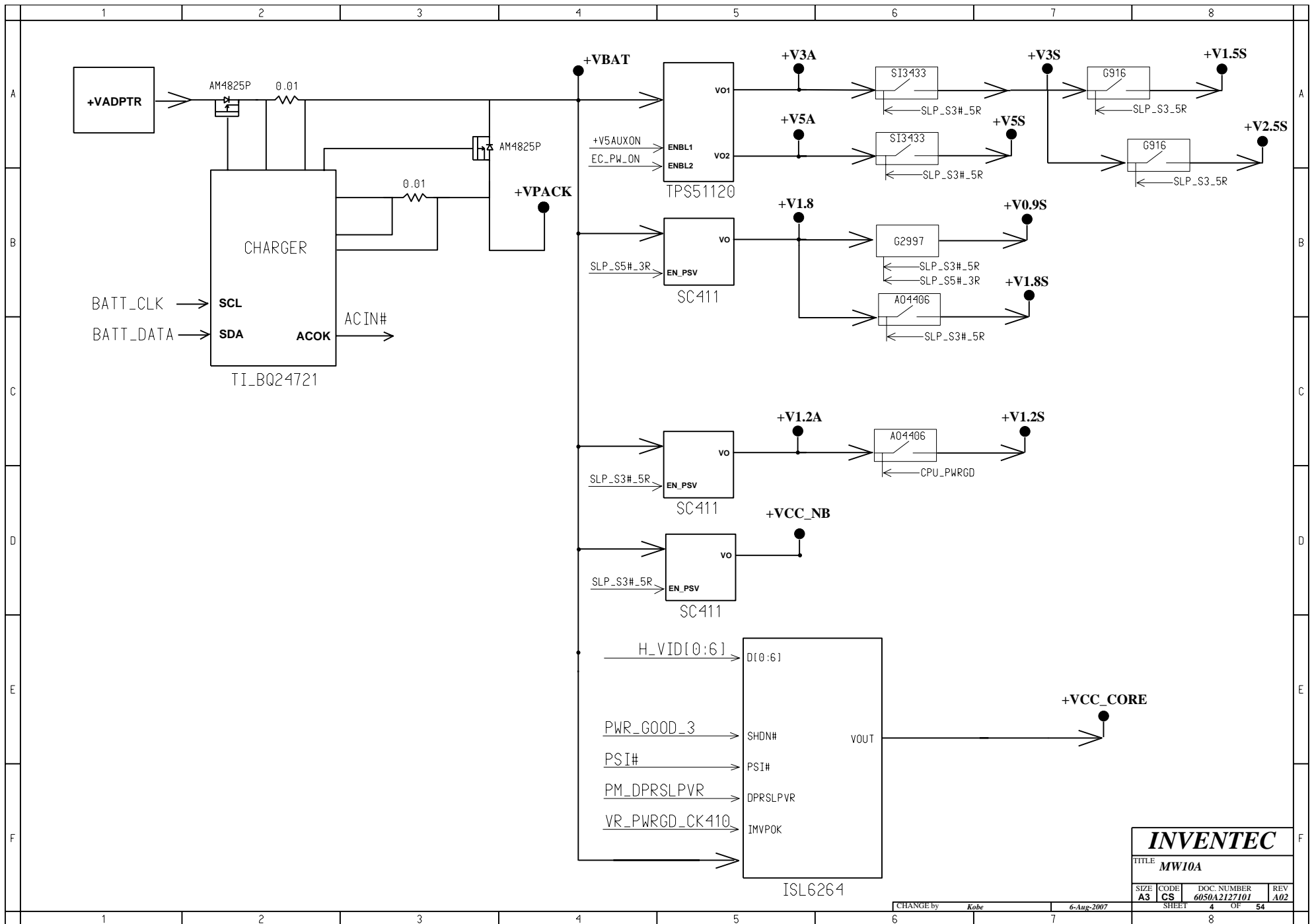
TITLE **MW10A**

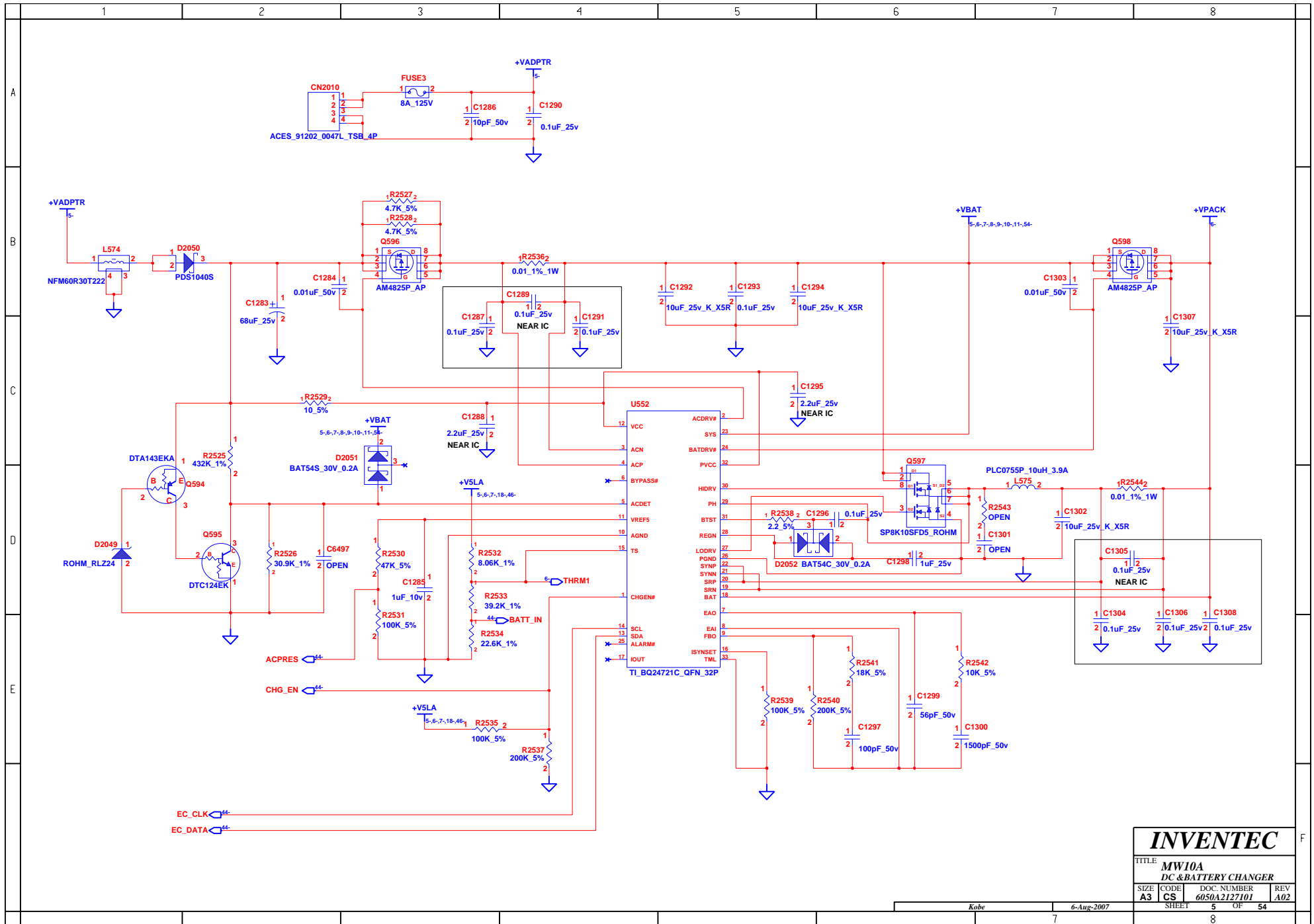
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2127101</b>	REV <b>A02</b>
-------------------	-------------------	------------------------------------	-------------------

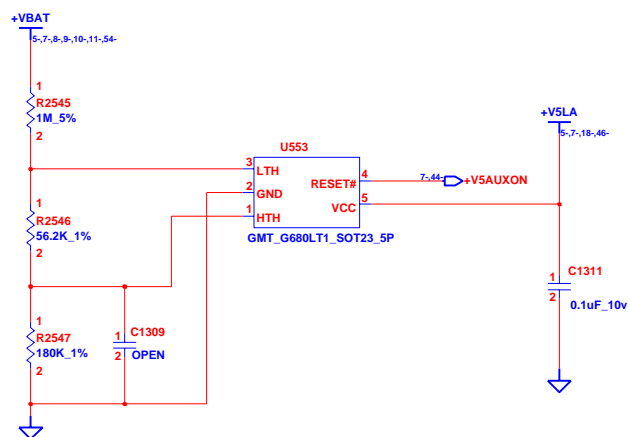
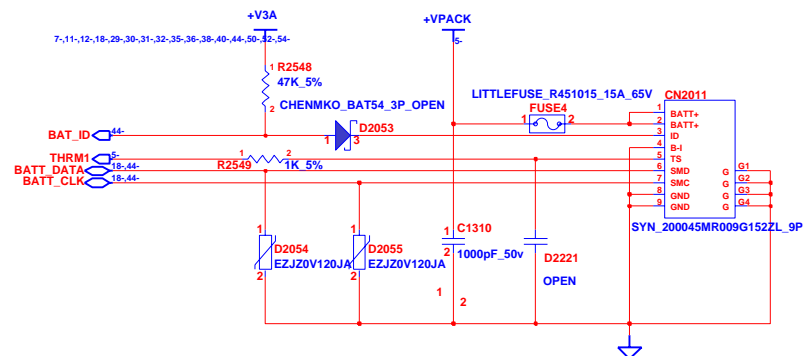
CHANGE by **Kobe** 6-Aug-2007

SHEET **2** OF **54**









**INVENTEC**

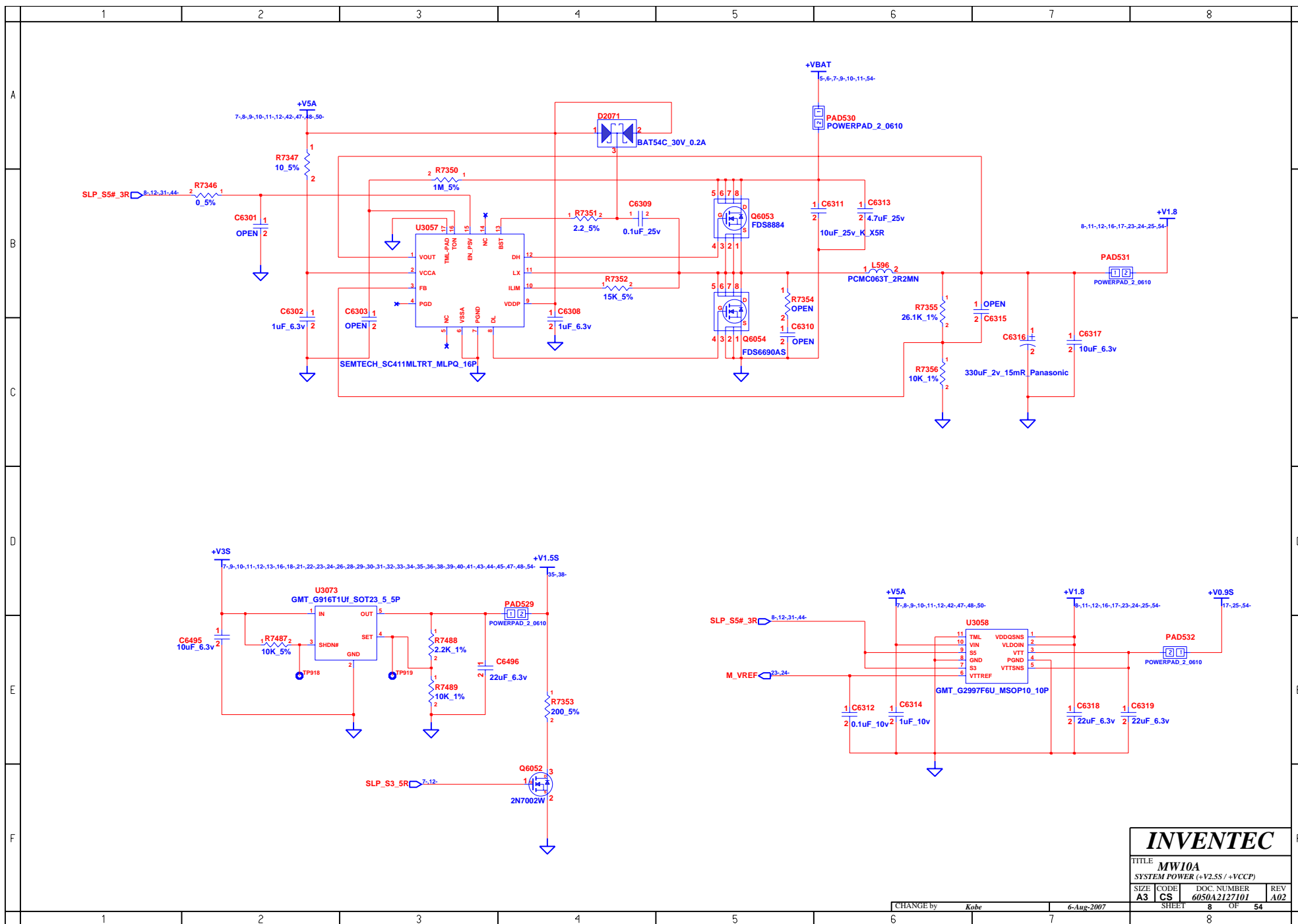
TITLE  
**MW10A  
BATTERY CONN**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2127101</b>	REV <b>A02</b>
-------------------	-------------------	------------------------------------	-------------------

CHANGE by *Kobe* 6-Aug-2007

SHEET 6 OF 54



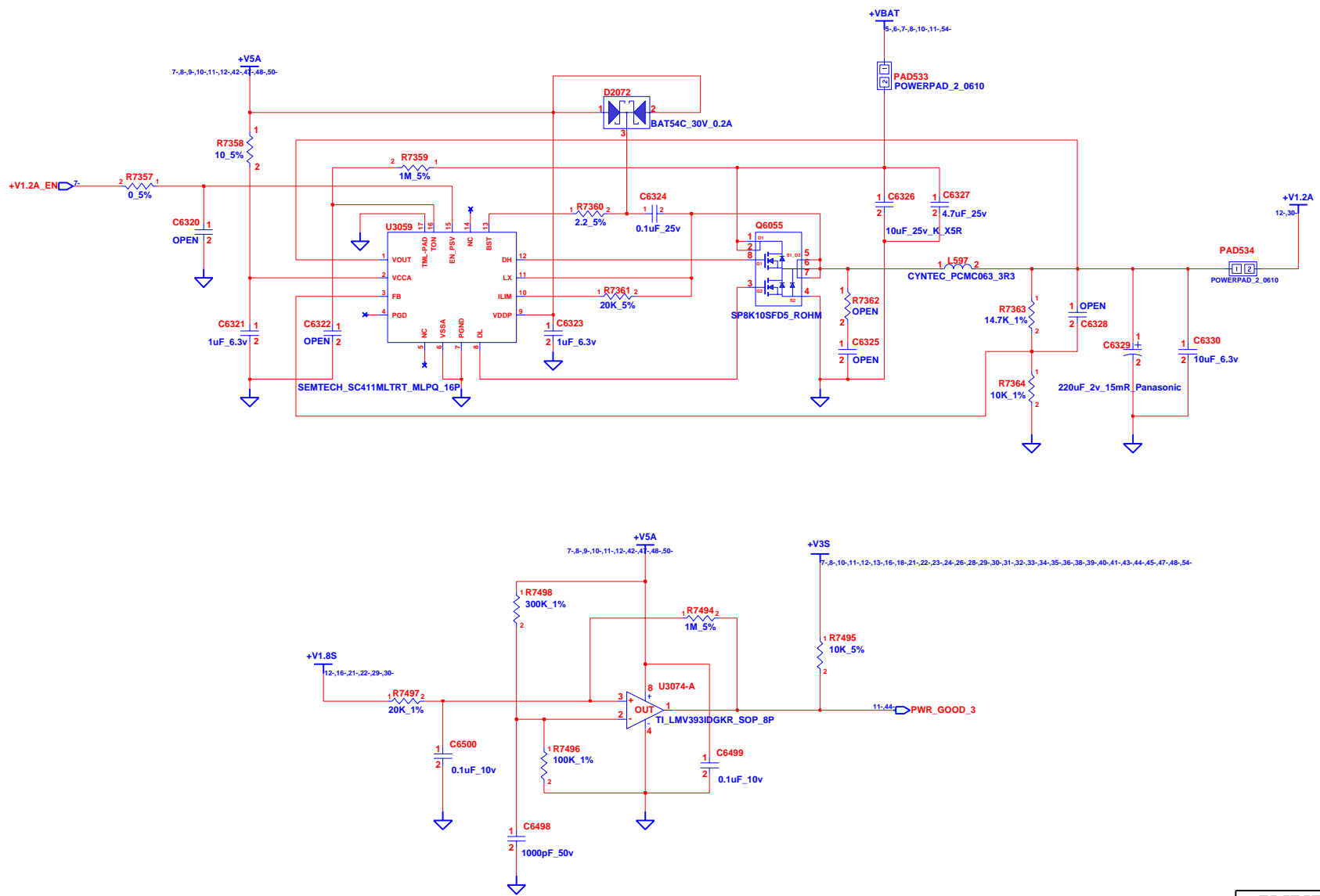


**INVENTEC**

TITLE			
MW10A			
SYSTEM POWER (+V2.55 / +VCCP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

CHANGE by *Kobe* 6-Aug-2007

SHEET 8 OF 54

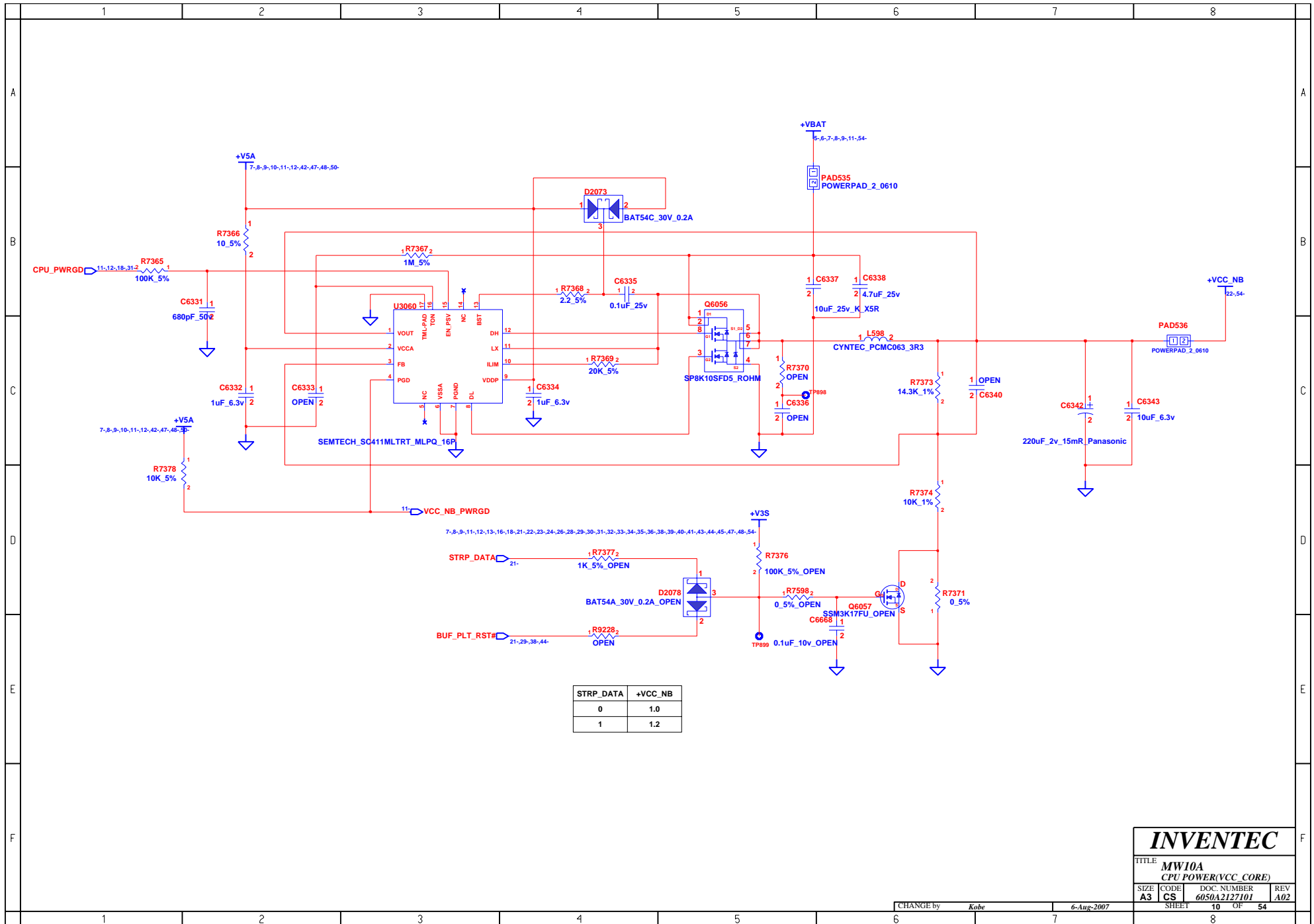


**INVENTEC**

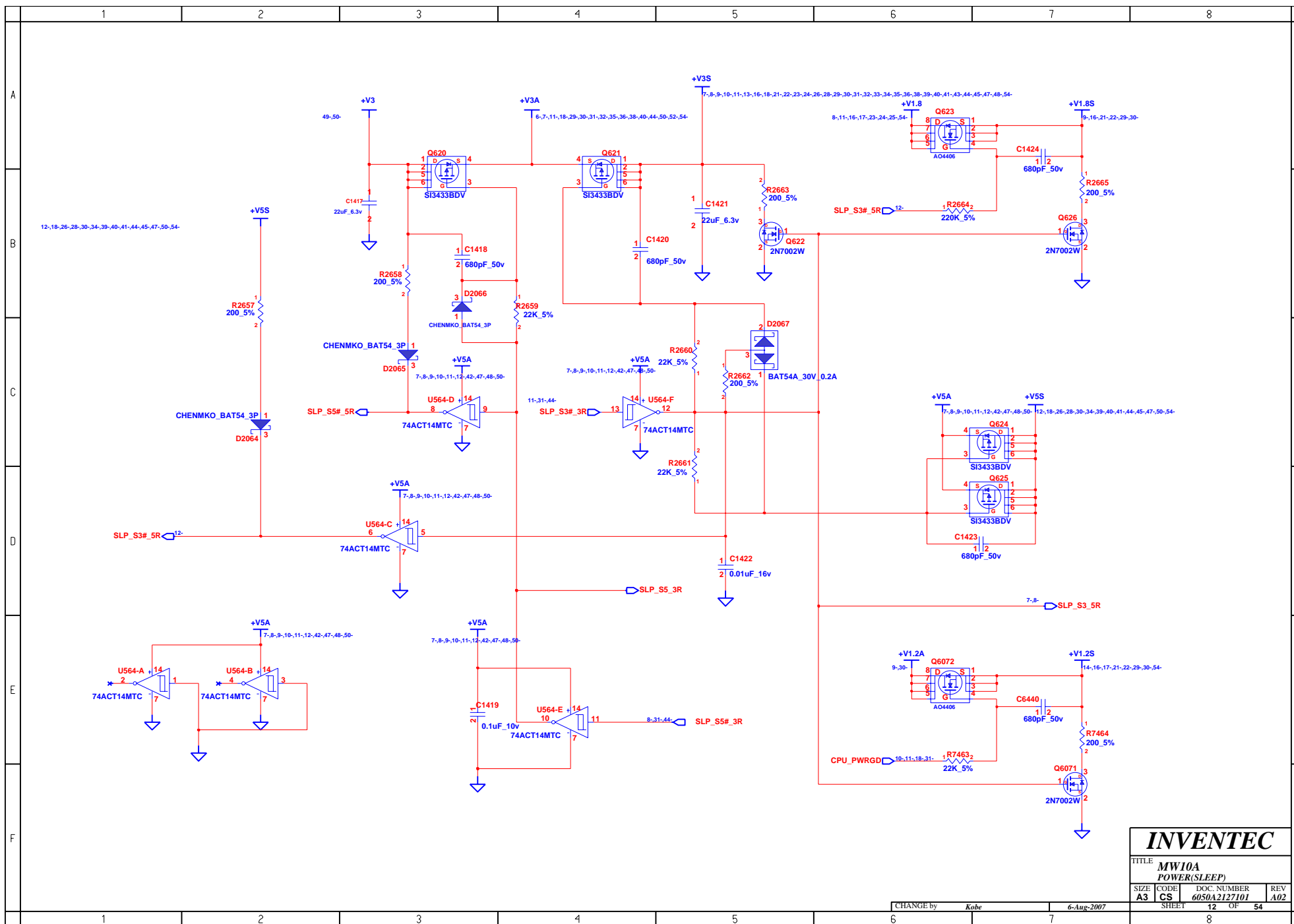
TITLE			
MW10A			
SYSTEM POWER(+V1.5S / +V1.8)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

CHANGE by *Kobe* 6-Aug-2007

SHEET 9 OF 54







**INVENTEC**

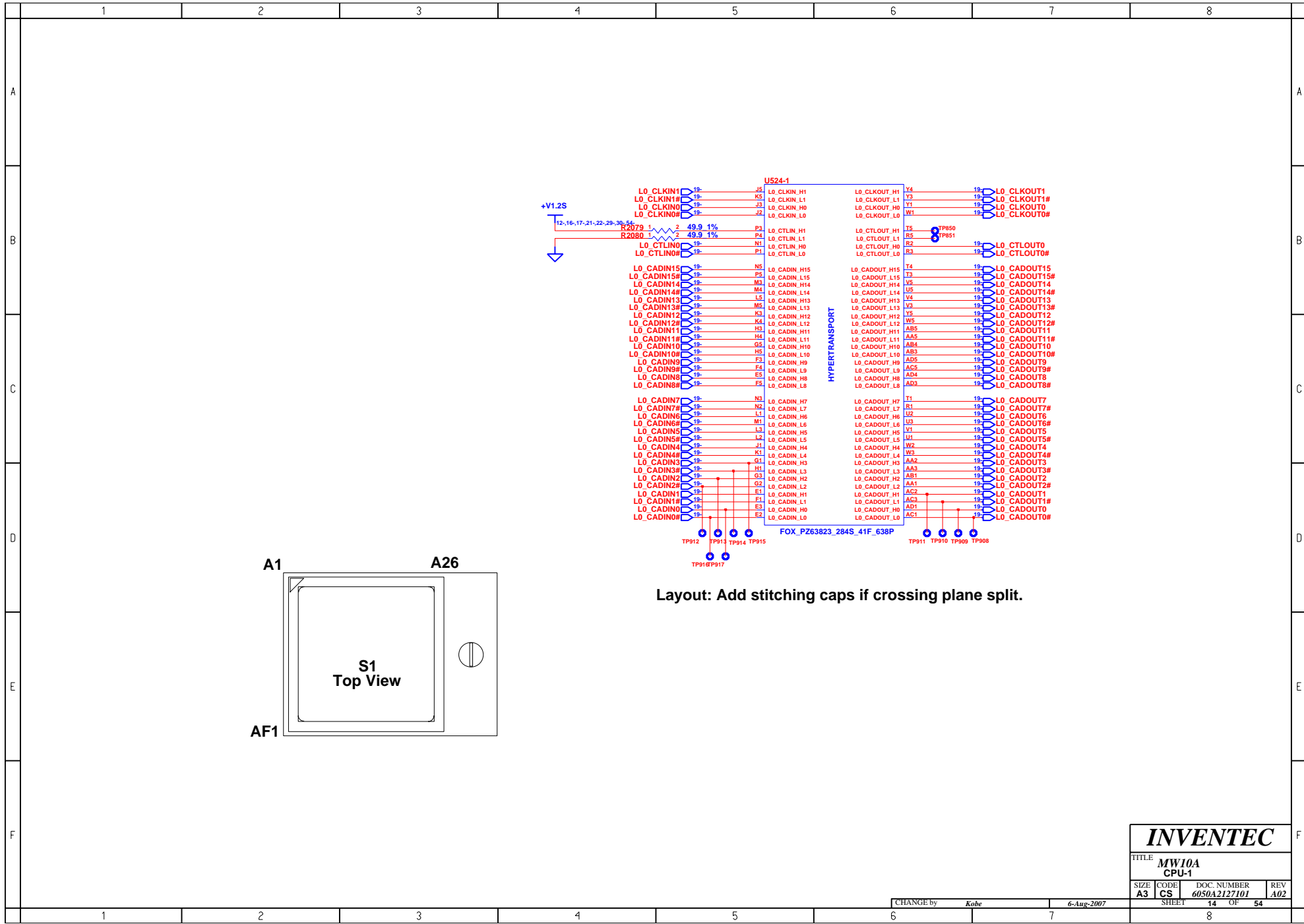
TITLE  
**MW10A  
POWER(SLEEP)**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2127101</b>	REV <b>A02</b>
-------------------	-------------------	------------------------------------	-------------------

CHANGE by *Kobe* 6-Aug-2007

SHEET 12 OF 54





Layout: Add stitching caps if crossing plane split.

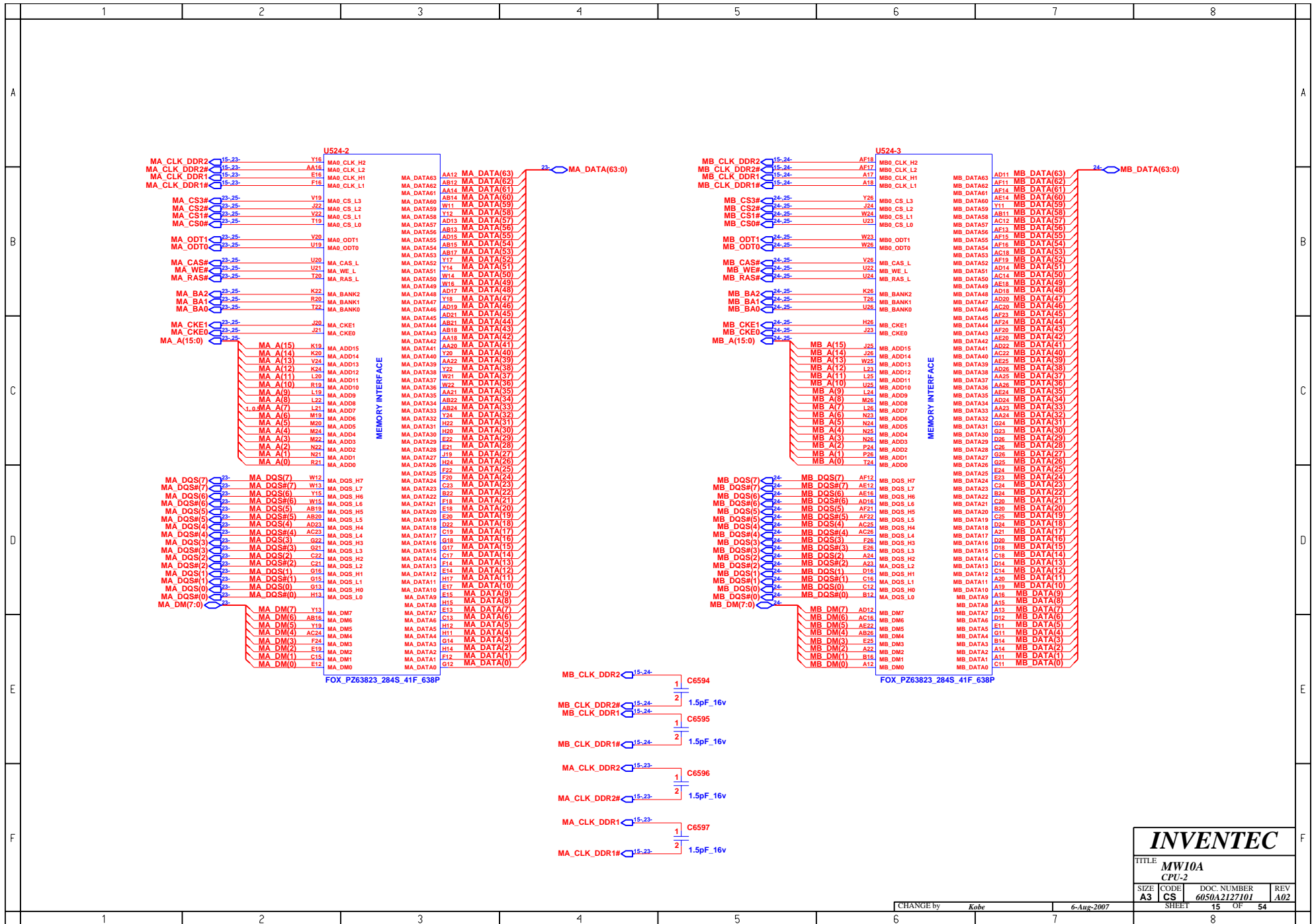
INVENTEC

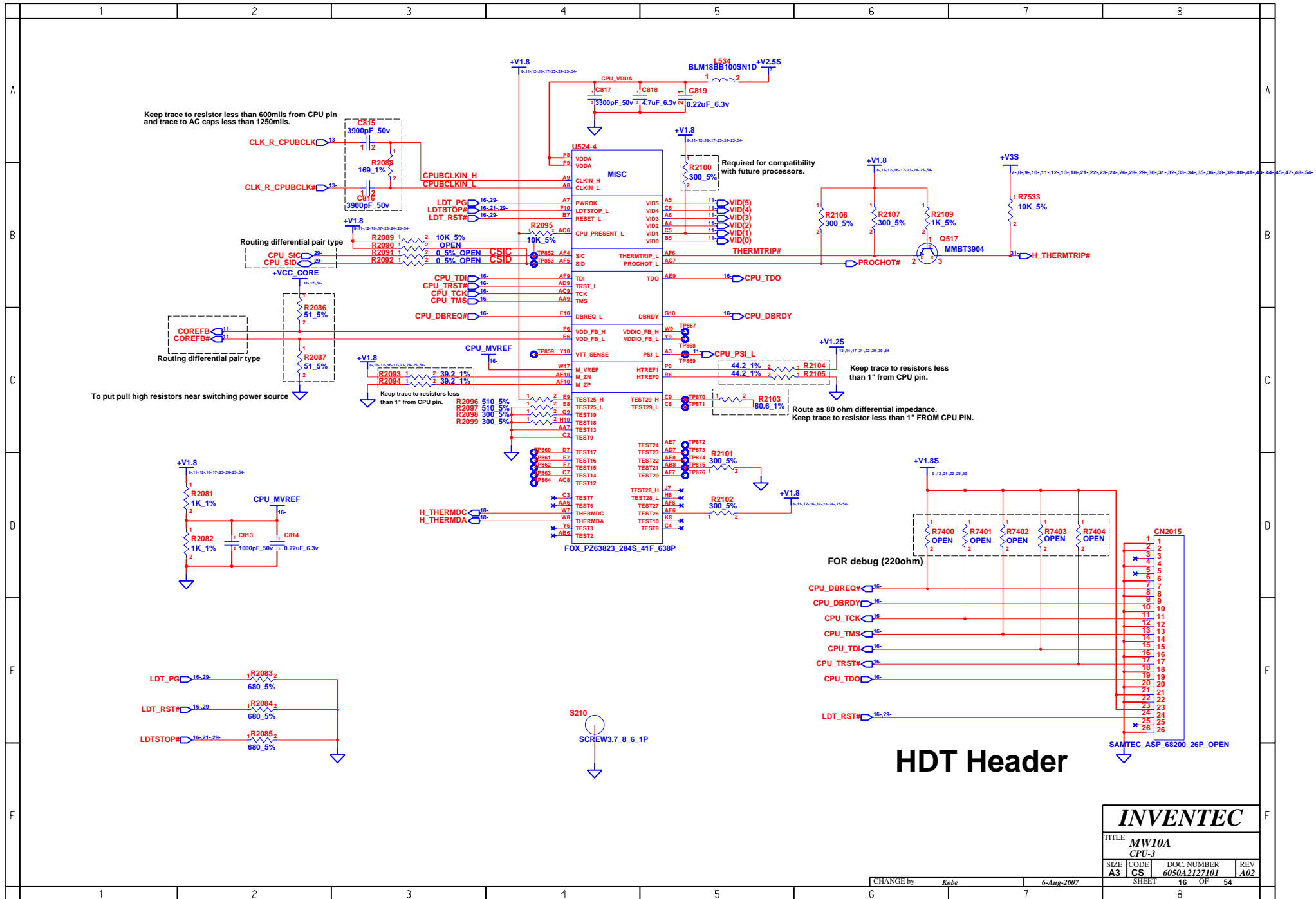
TITLE MW10A CPU-1

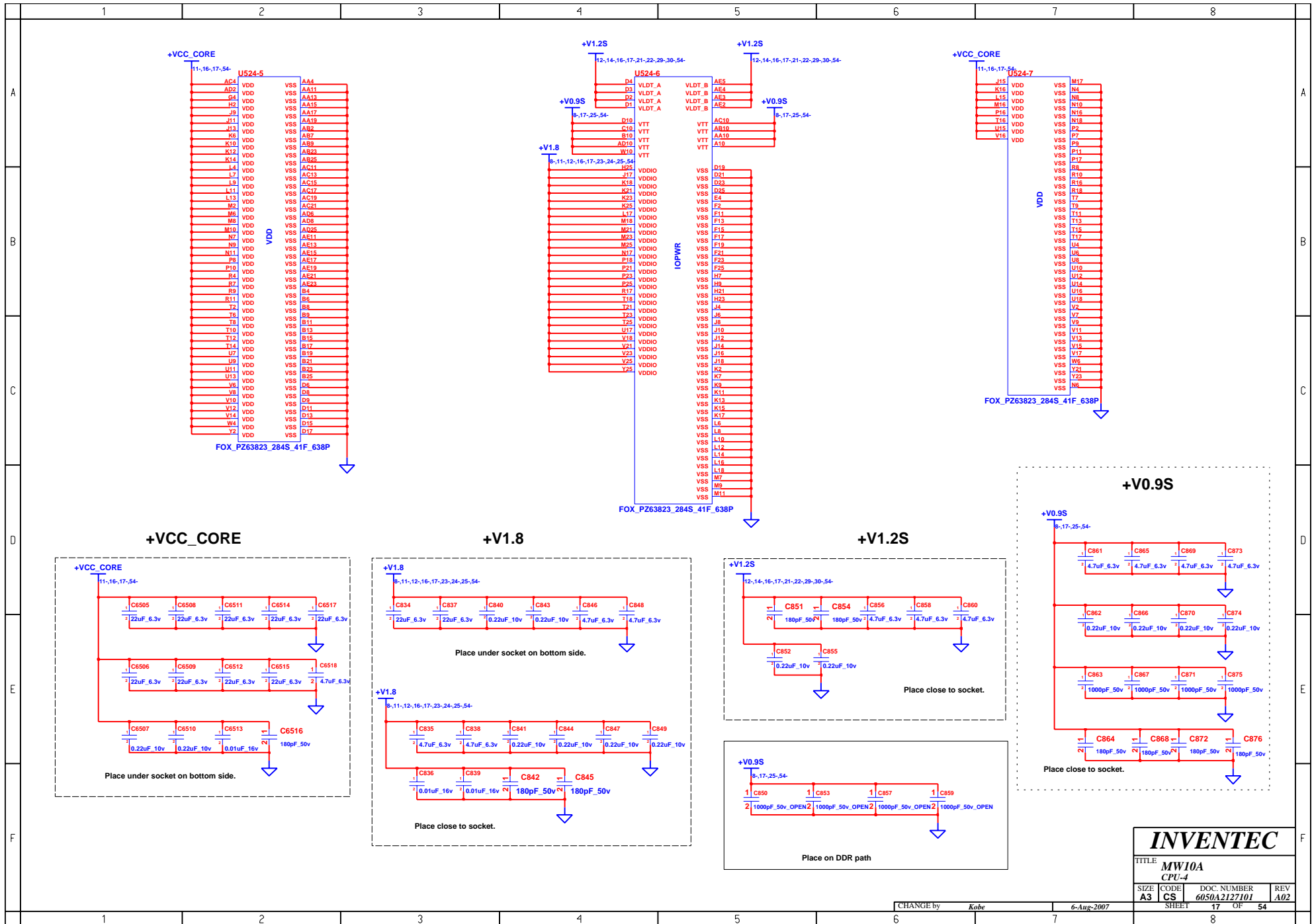
SIZE A3	CODE CS	DOC. NUMBER 6050A2127101	REV A02
---------	---------	--------------------------	---------

CHANGE by Kobe 6-Aug-2007

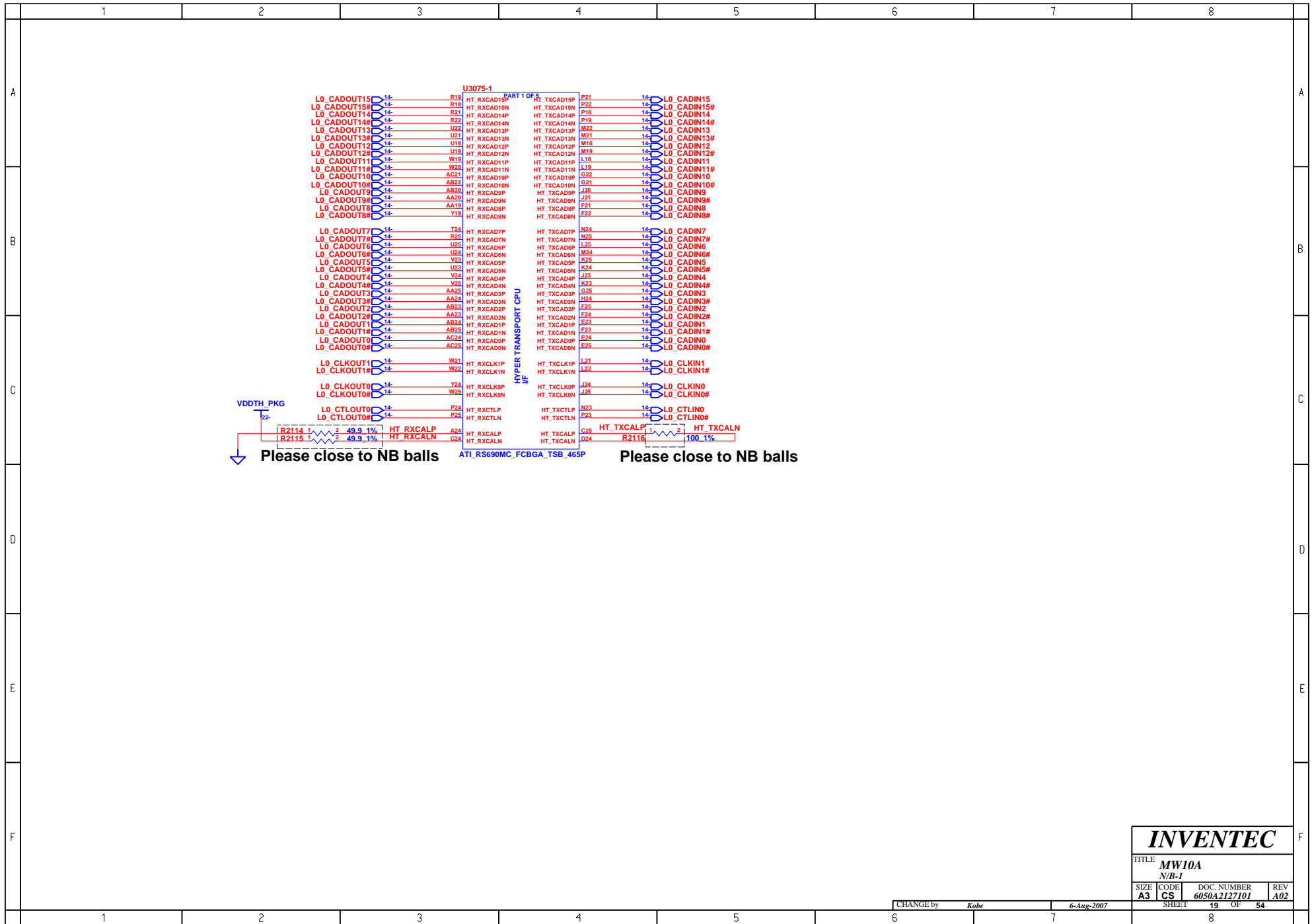
SHEET 14 OF 54

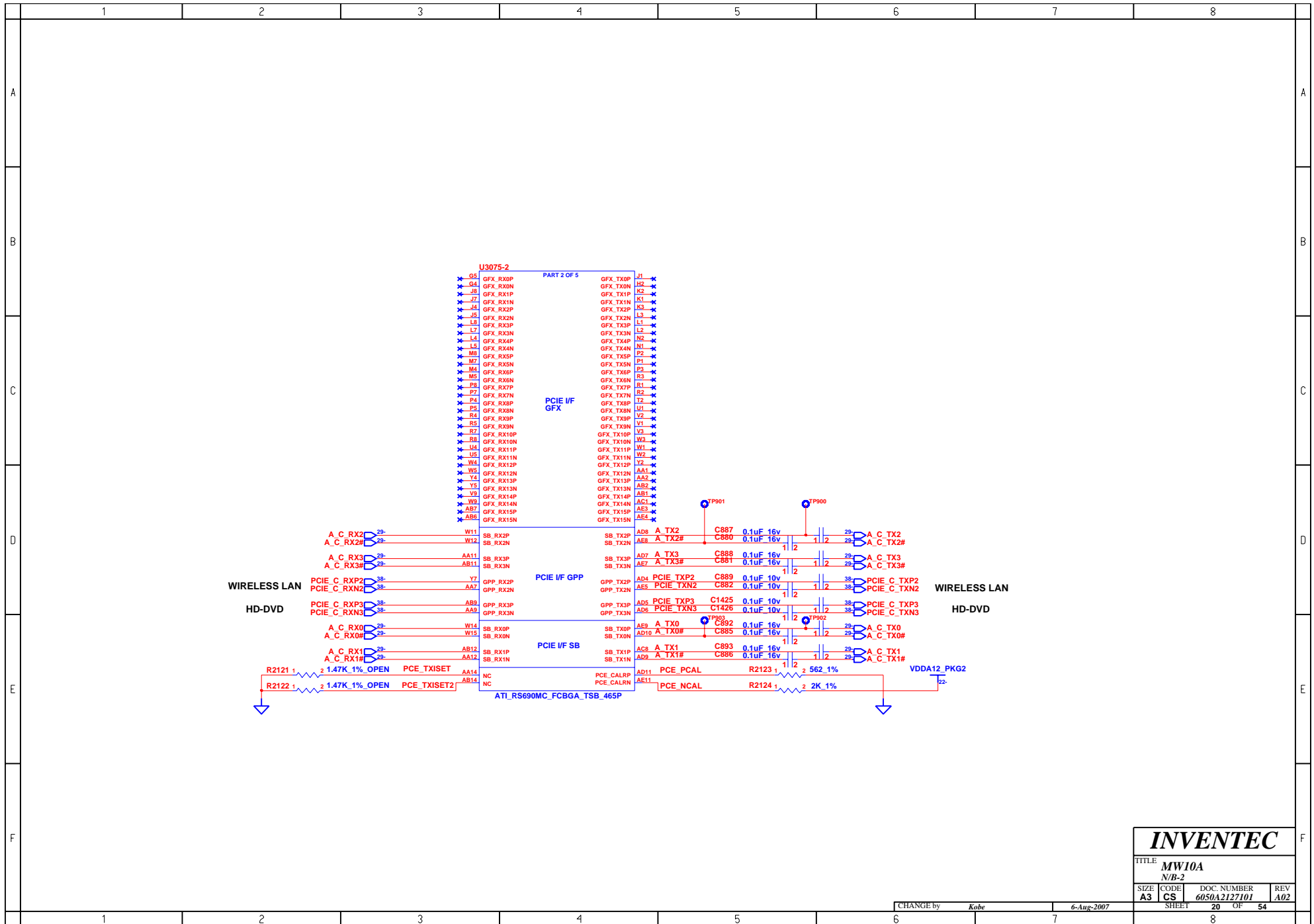


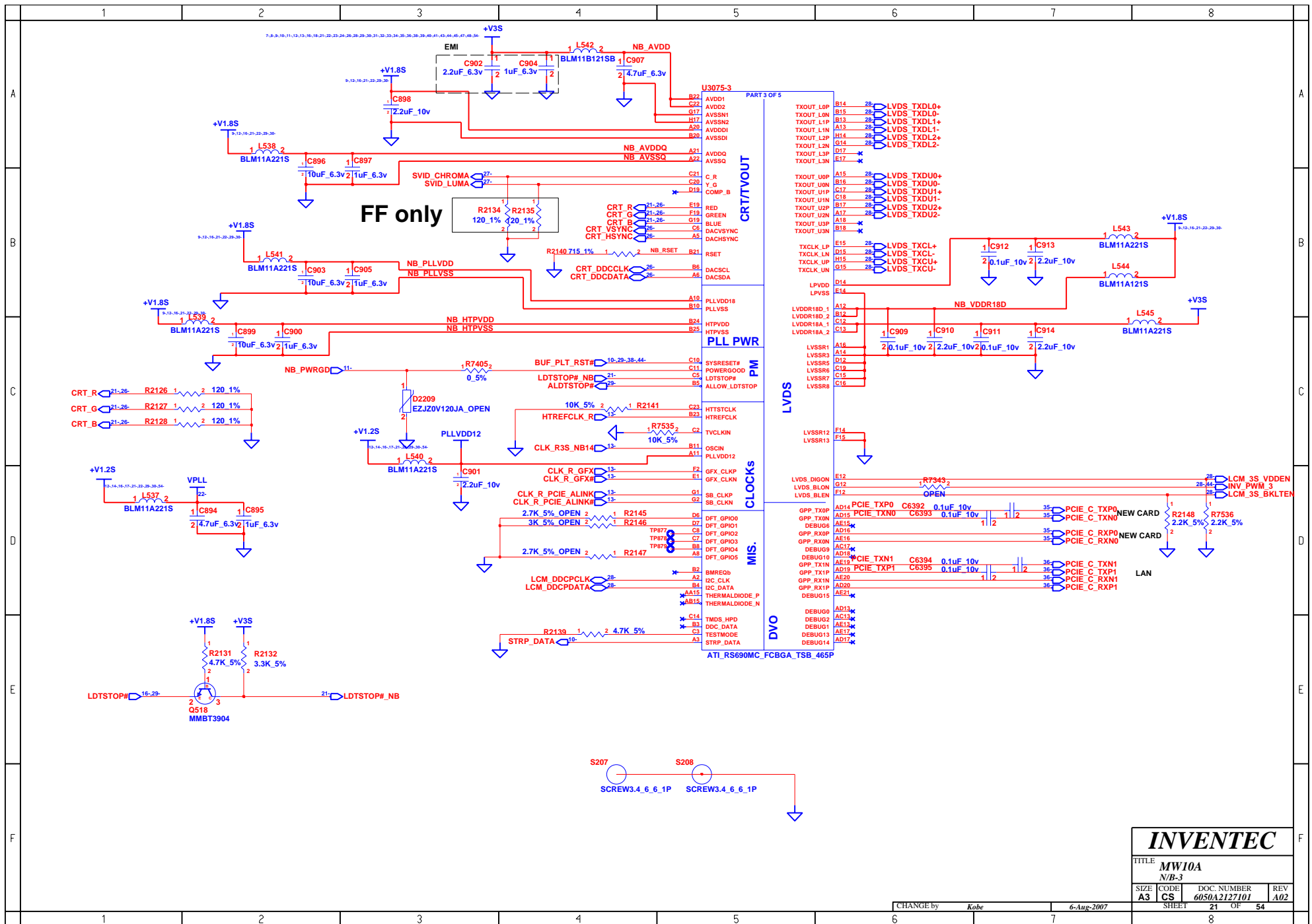


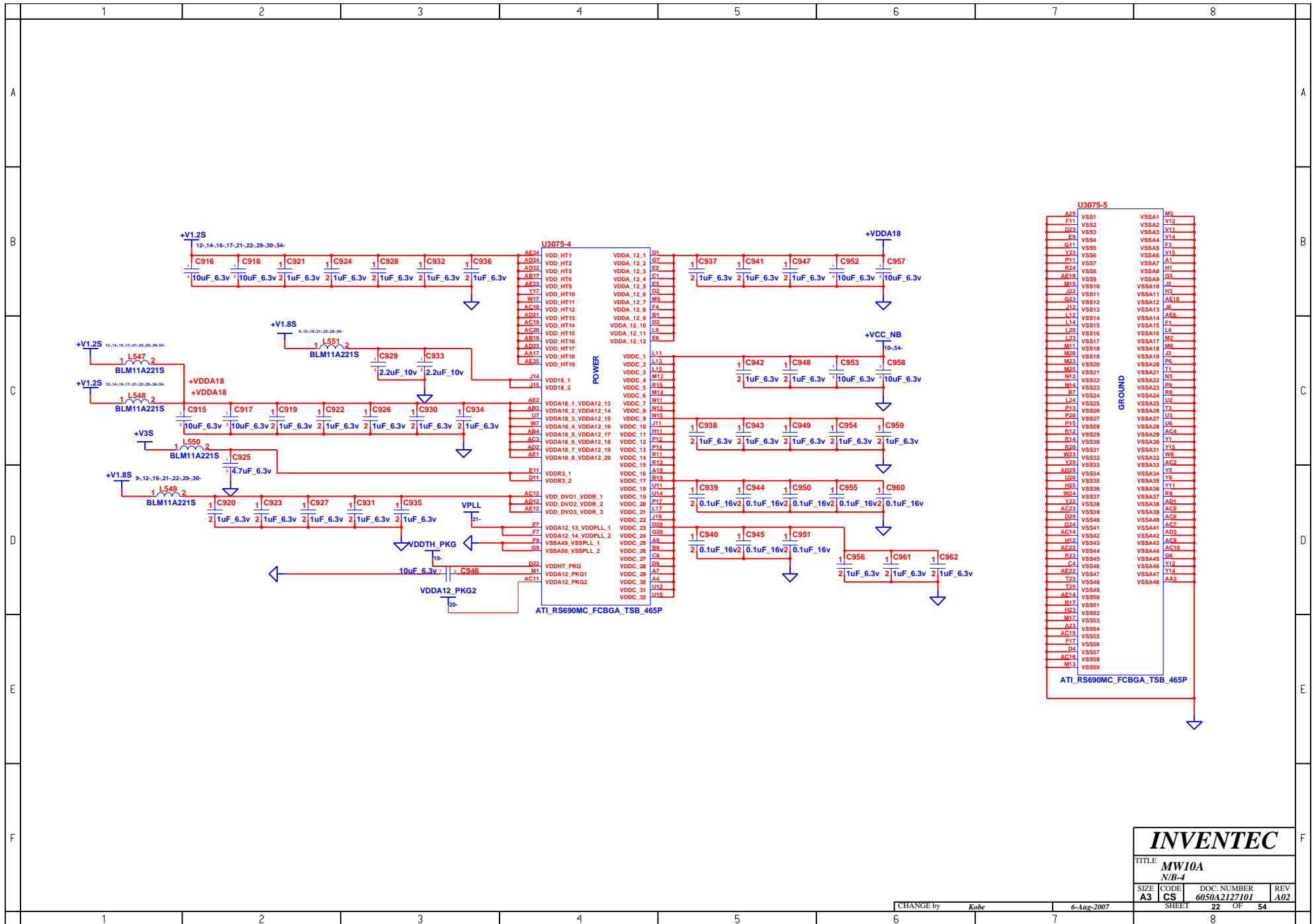






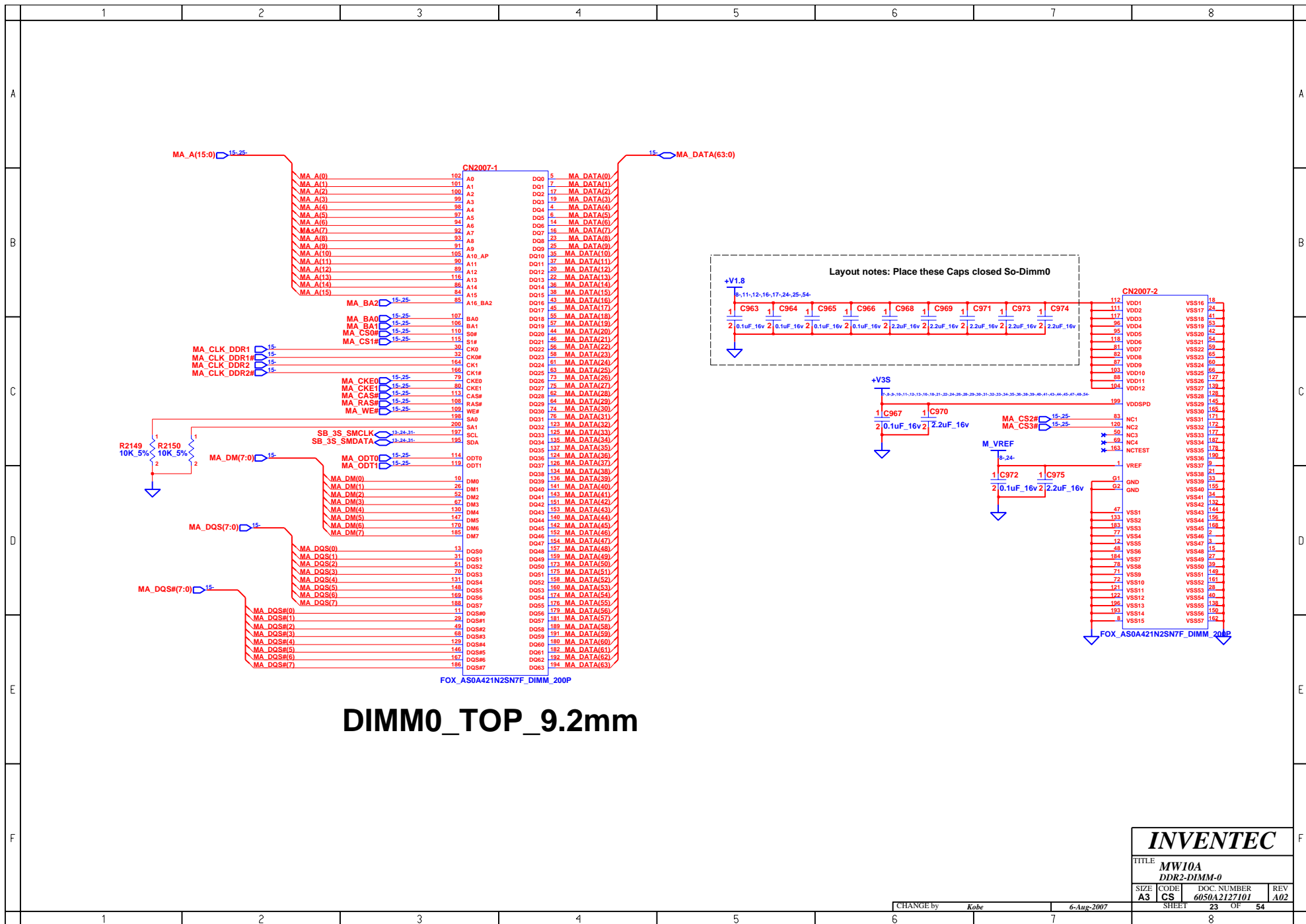


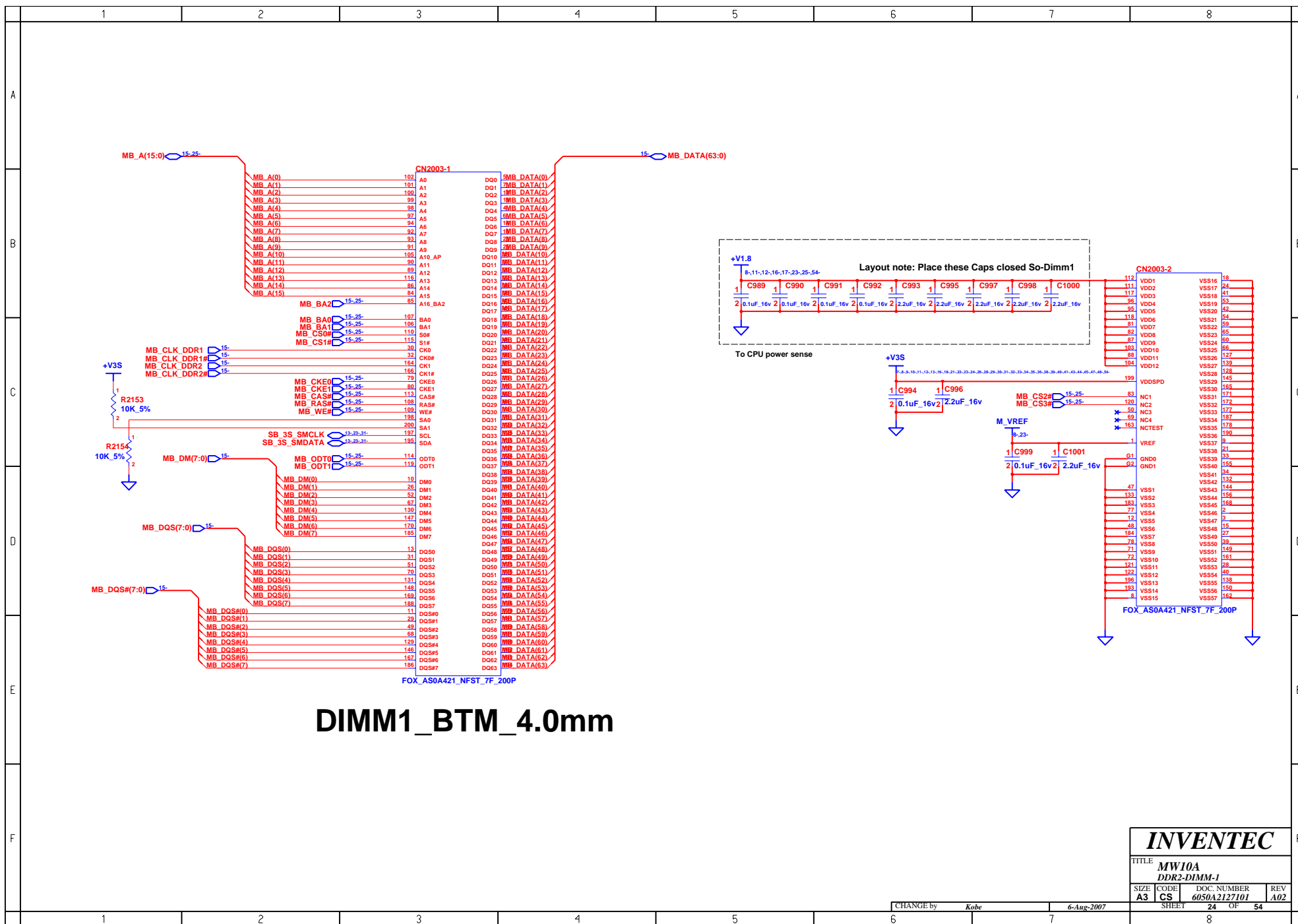


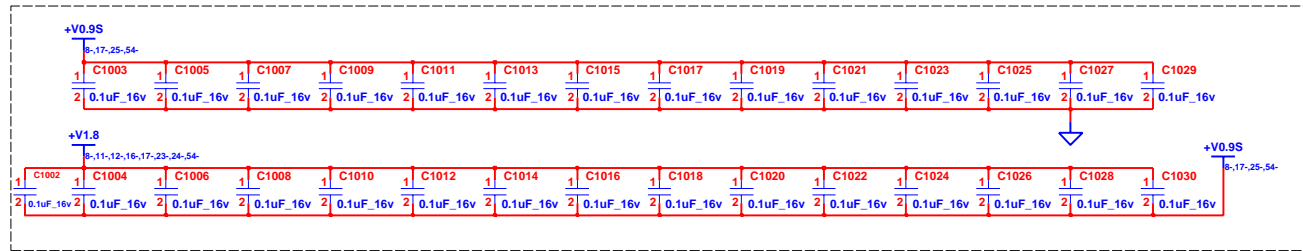


**INVENTEC**

TITLE			
MW10A			
N/B-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
SHEET		22	OF 54

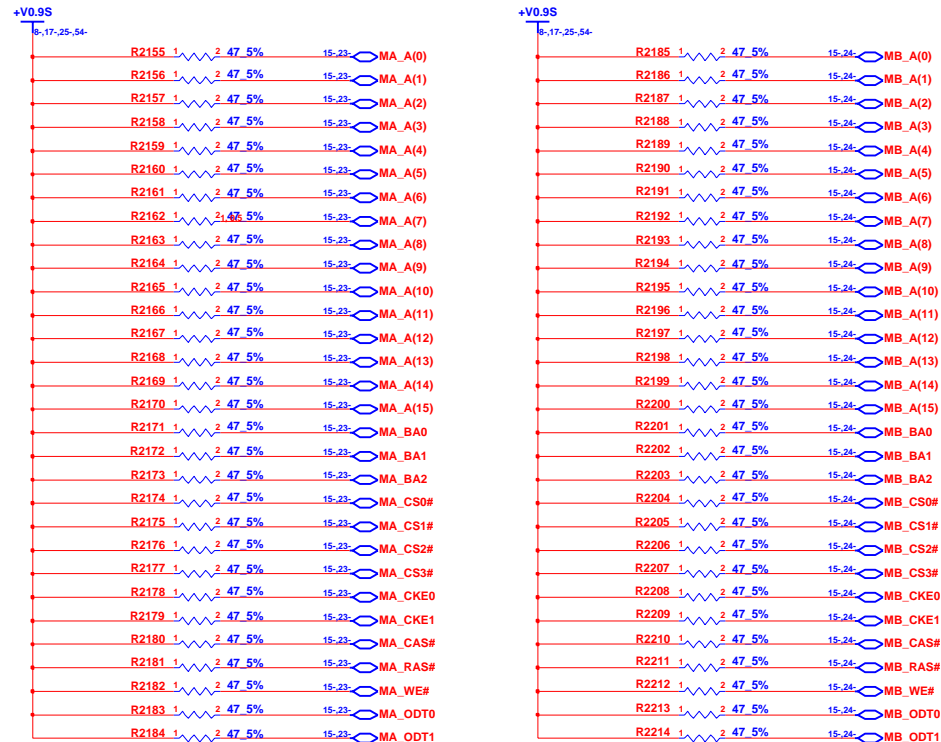






To CPU power sense

**Place CAPs close to DIMM**



**INVENTEC**

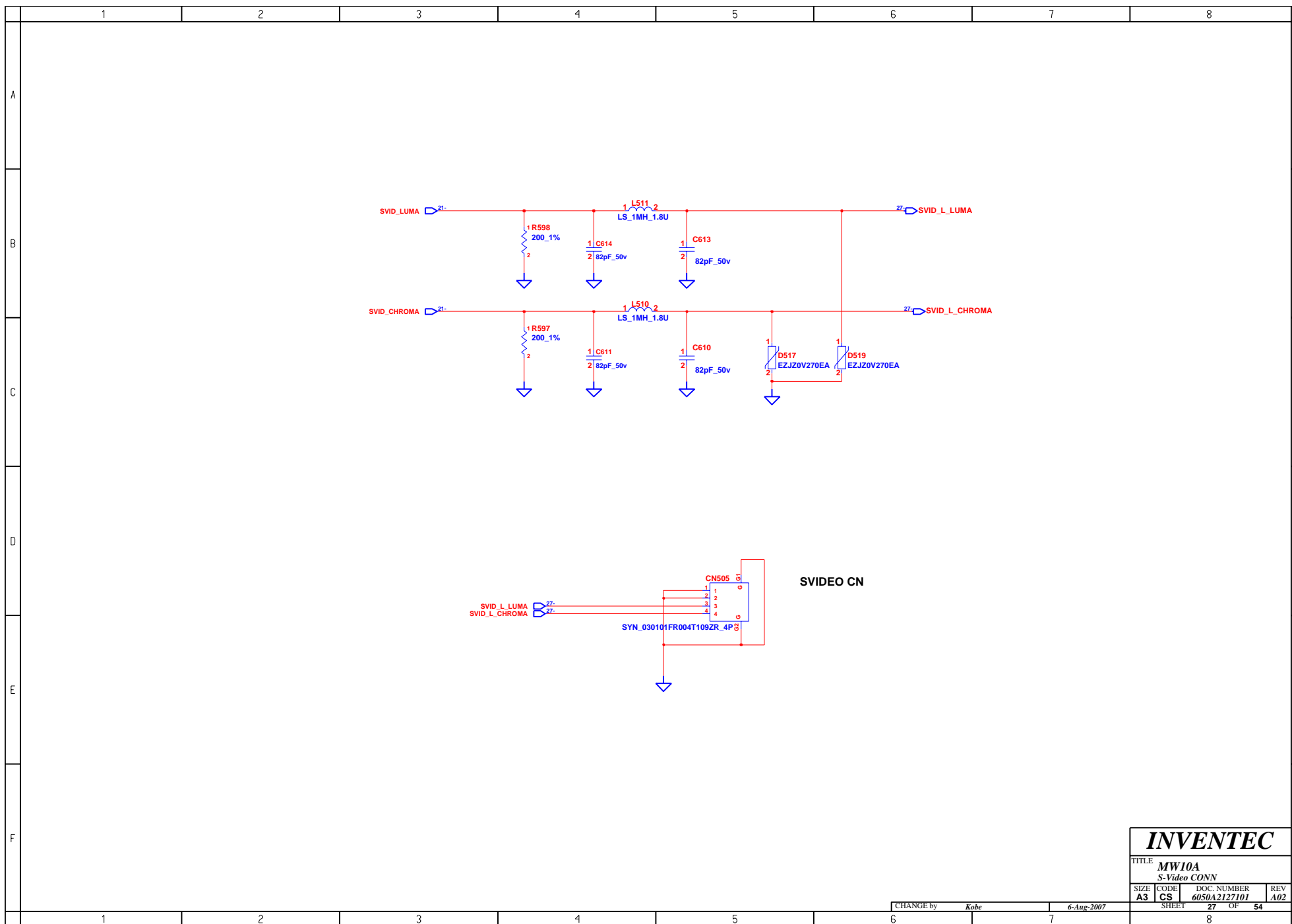
TITLE  
**MW10A**  
**DDR2-DAMPING**

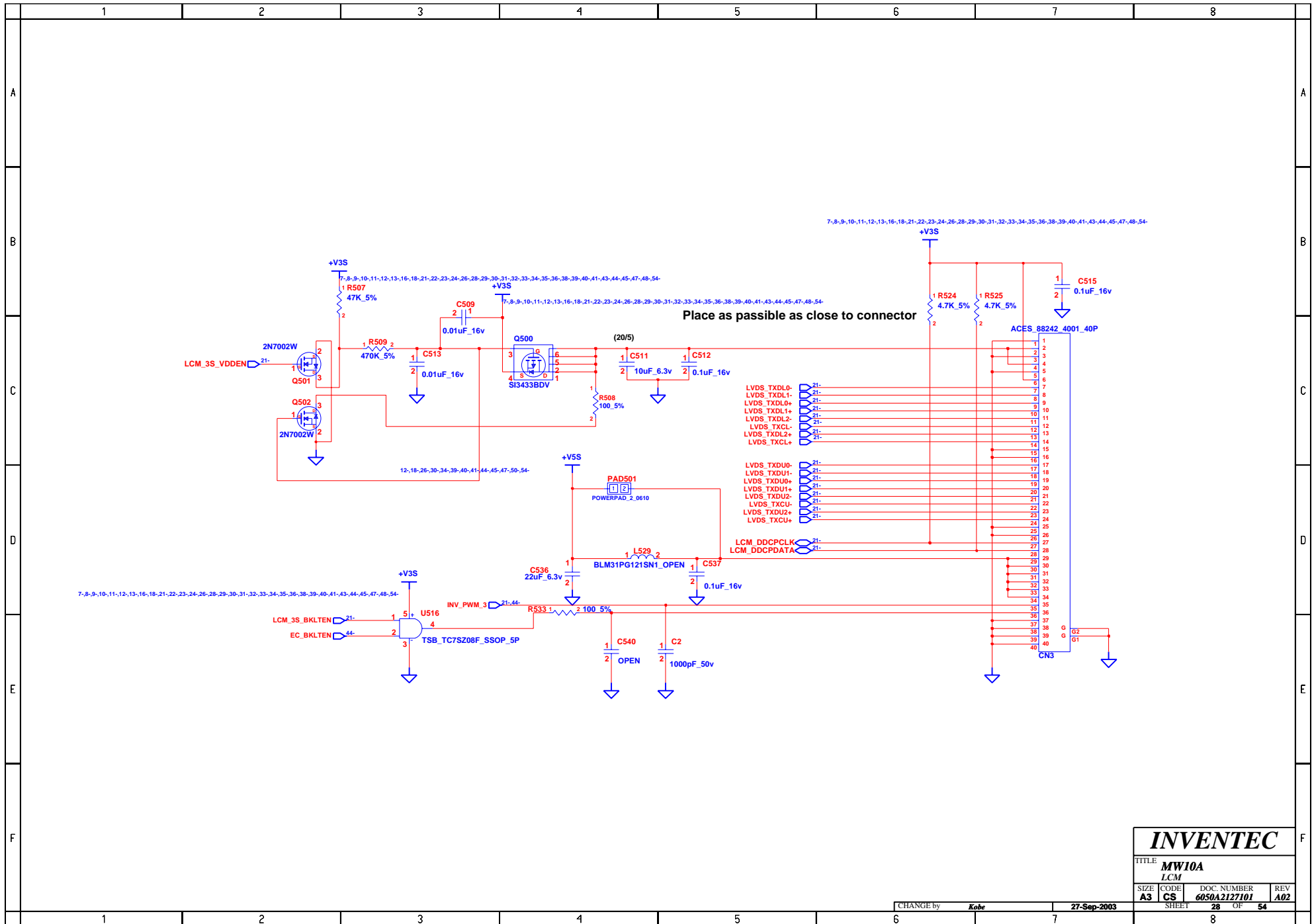
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

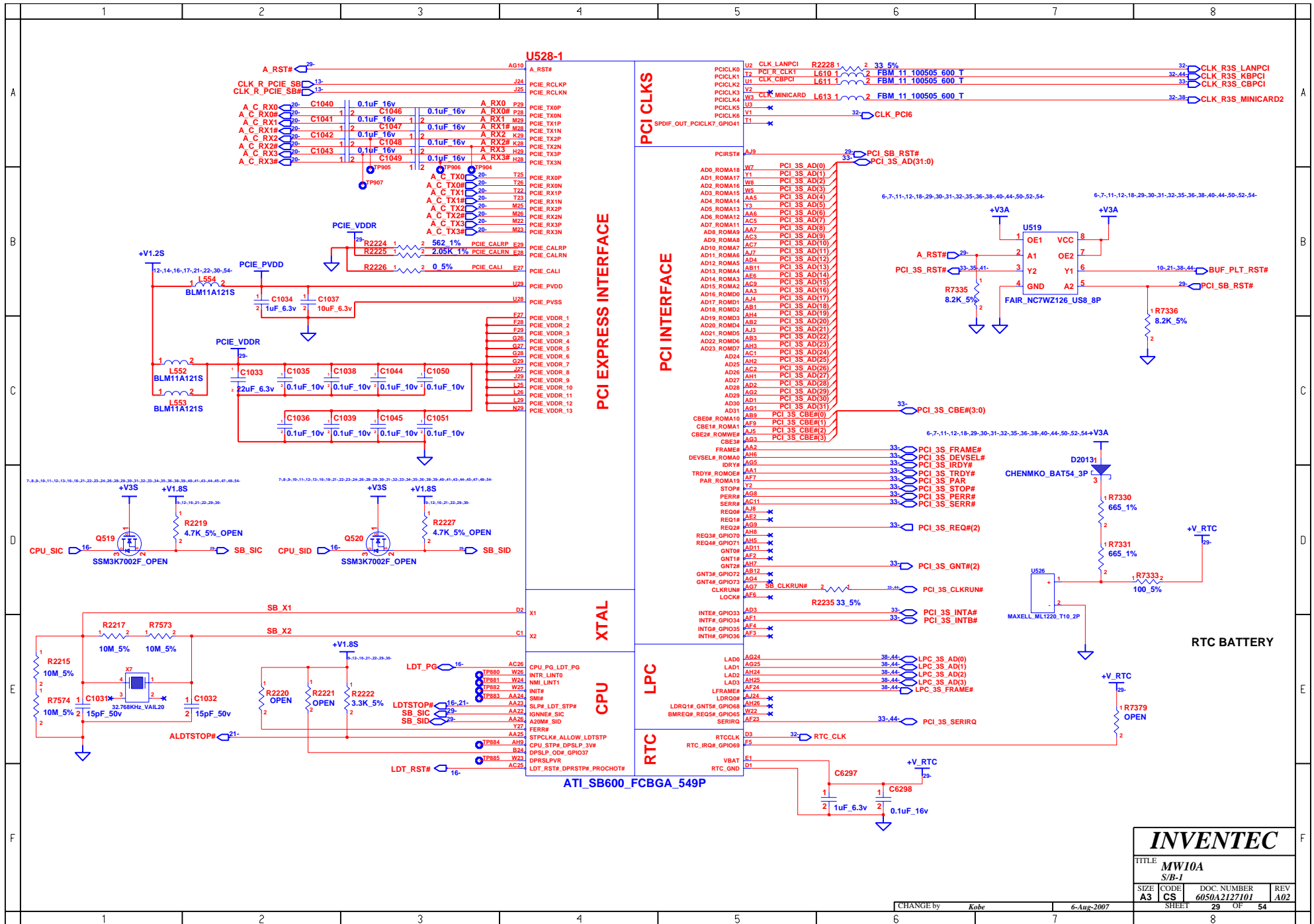
CHANGE by *Kobe* 6-Aug-2007

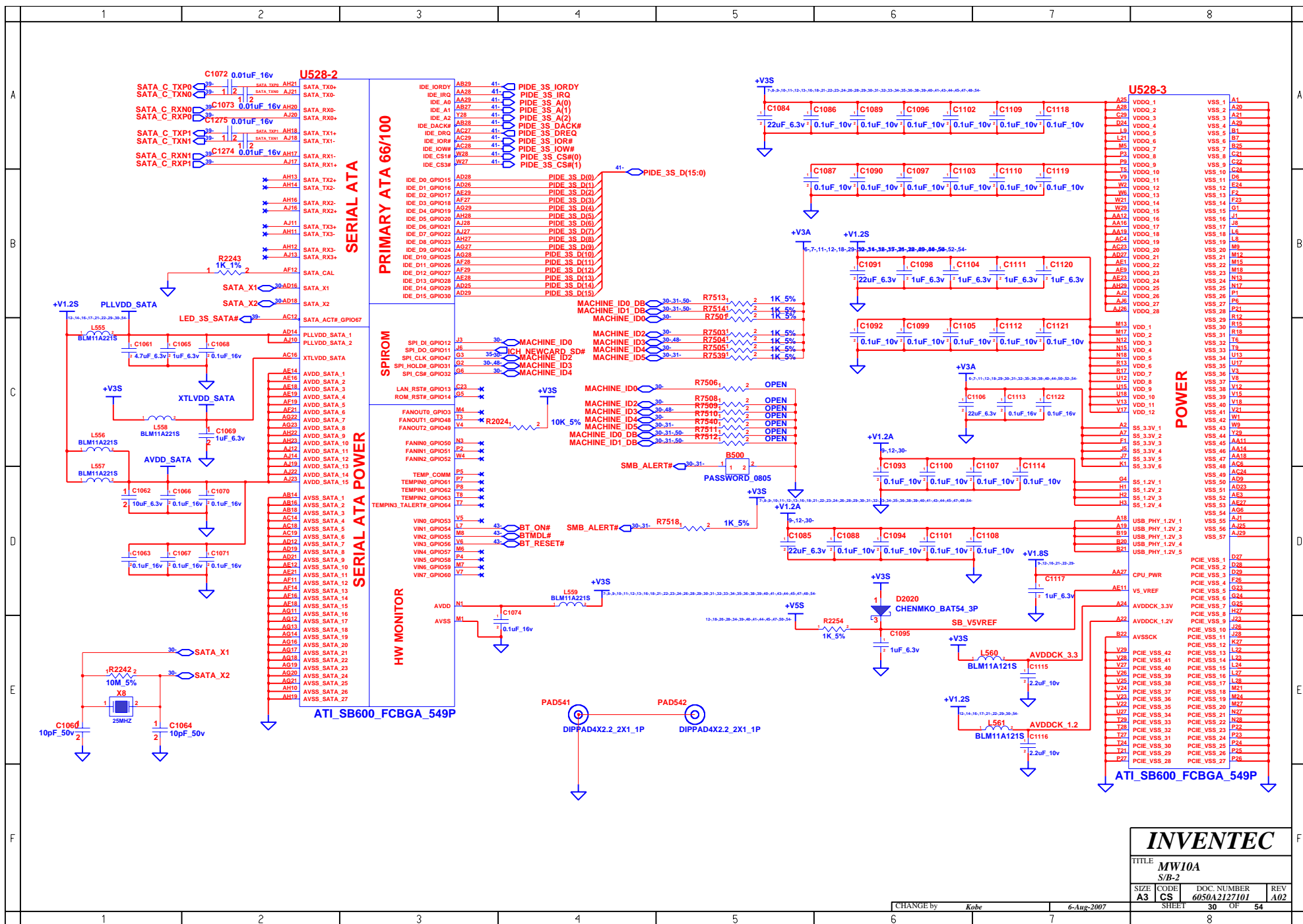
SHEET 25 OF 54

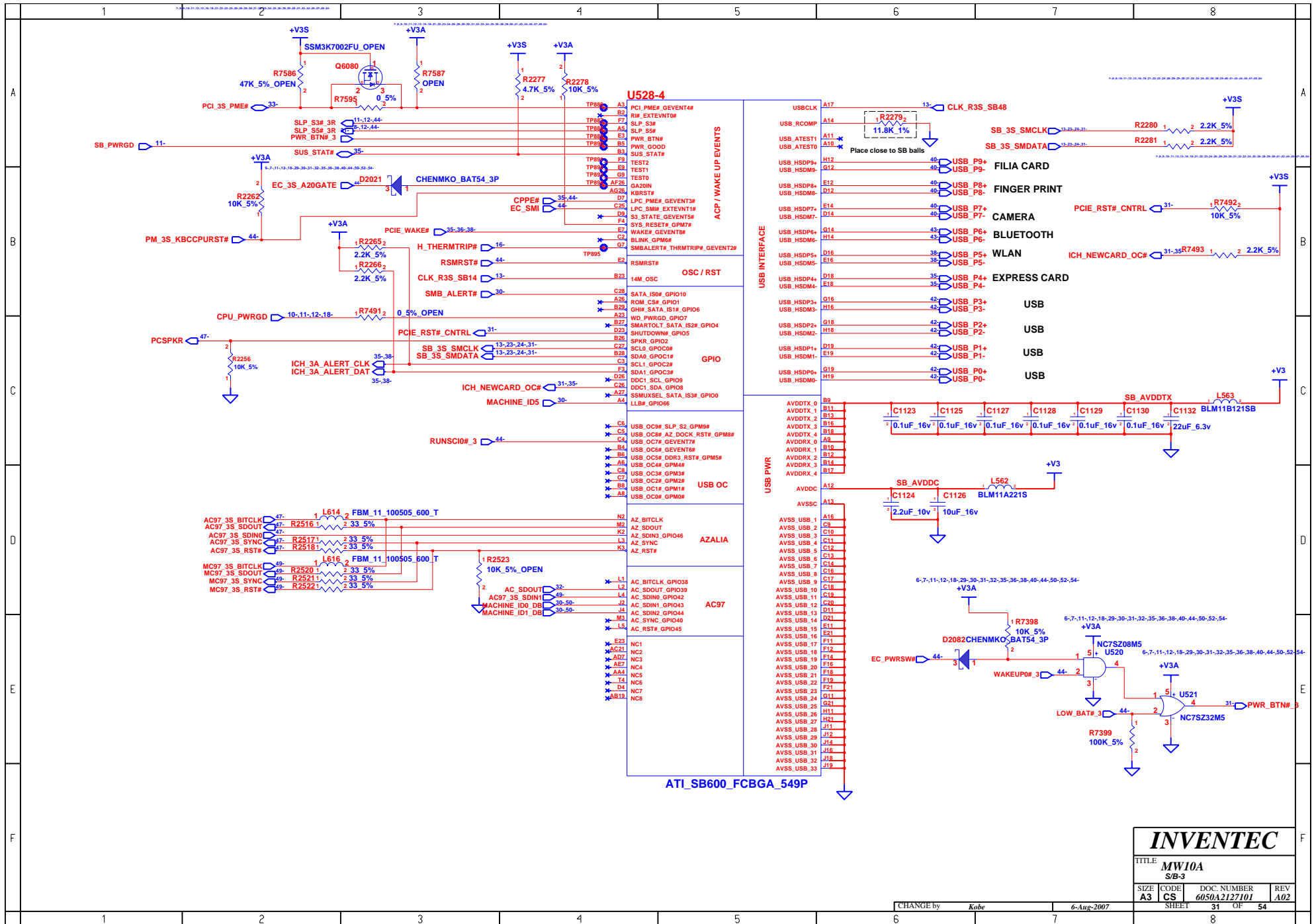












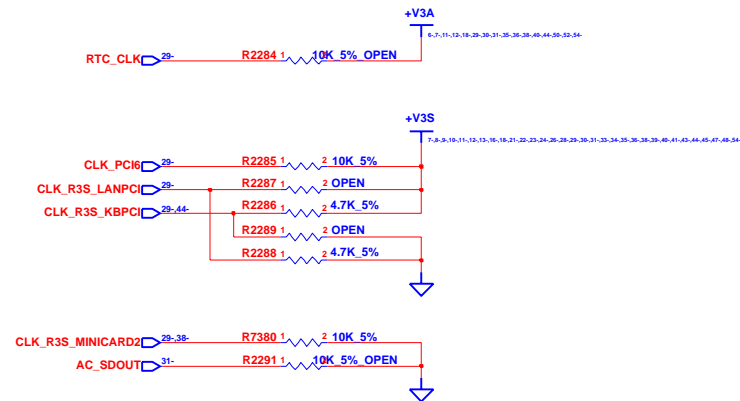
**INVENTEC**

TITLE			
MW10A			
S/B-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

CHANGE by	Kobe	6-Aug-2007	SHEET	31	OF	54
-----------	------	------------	-------	----	----	----

### Required Straps:

	AC_SDOUT	RTC_CLK	CLK_R3S_MINICARD2	PCI_CLK6	PCI_CLK0 PCI_CLK1
<b>PULL HIGH</b>	USE DEBUG STRAPS	INTERNAL RTC	USE INT. PLL48	CPU K8	HH: PCI ROM HL: SPI ROM
<b>PULL LOW</b>	IGNORE DEBUG STRAPS	EXTERNAL RTC	USE EXT. 48M CLK	CPU P4	LH: LPC ROM LL: FWH ROM

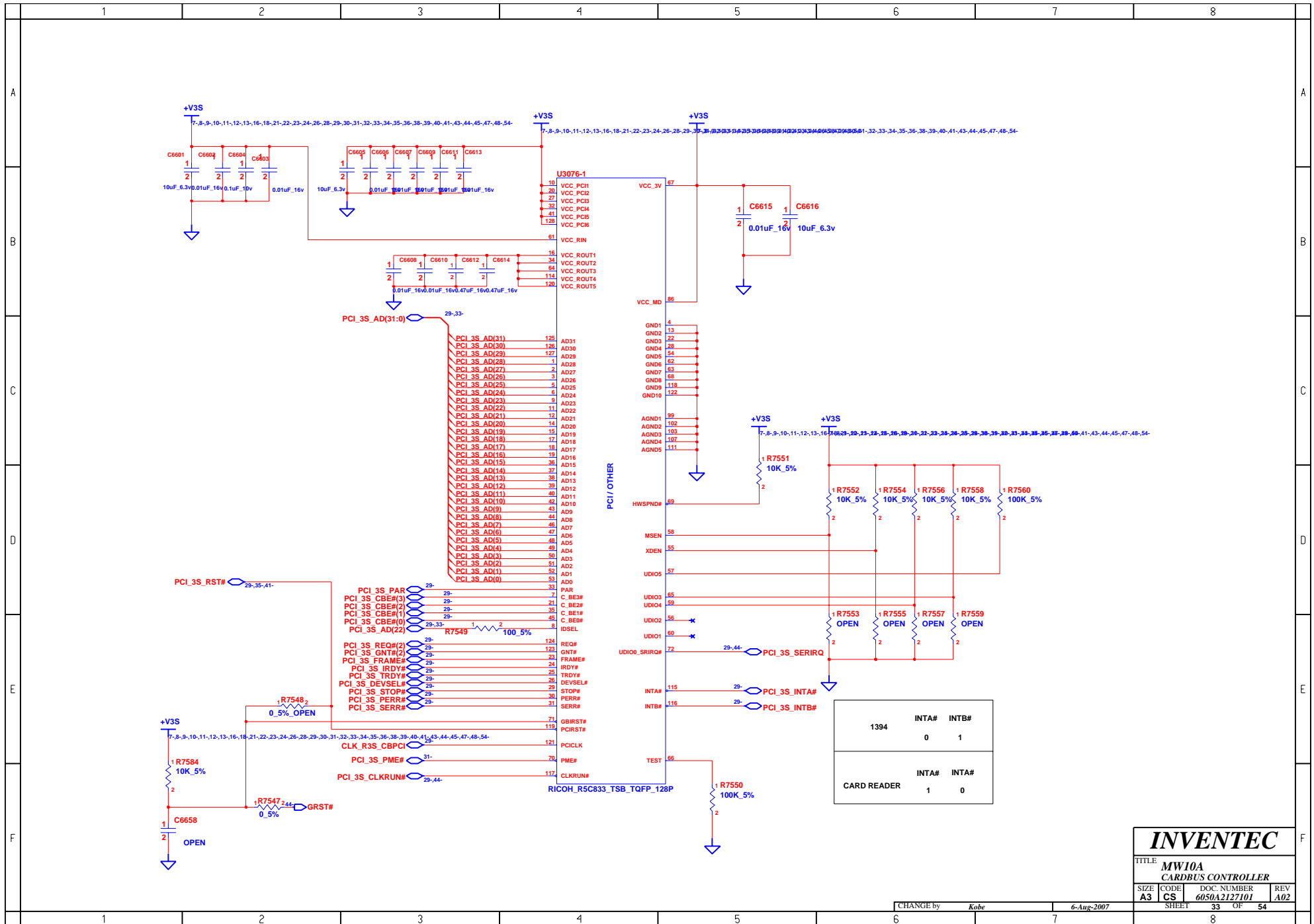


**INVENTEC**

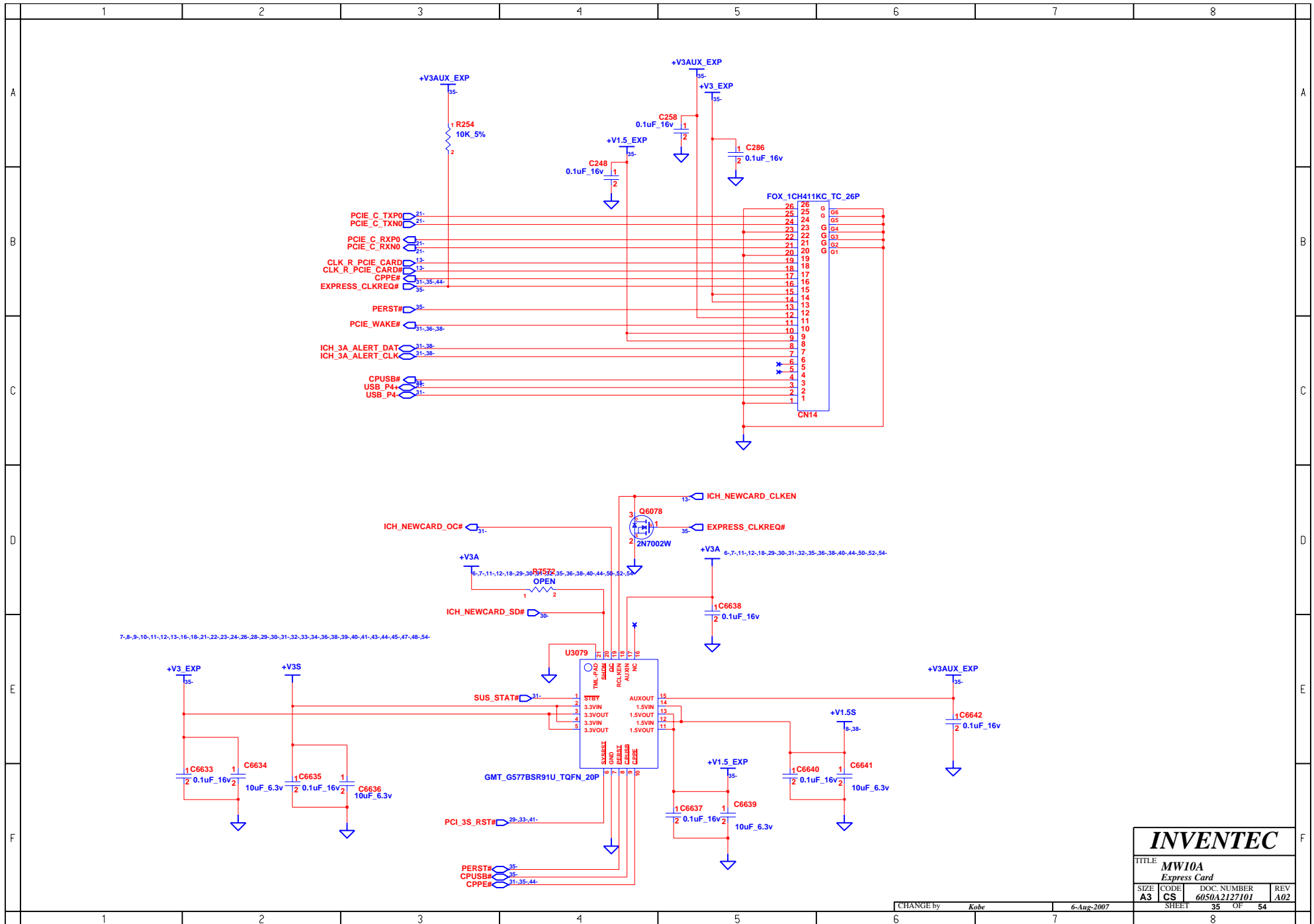
TITLE			
MW10A			
S/B-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

CHANGE by *Kobe* 6-Aug-2007

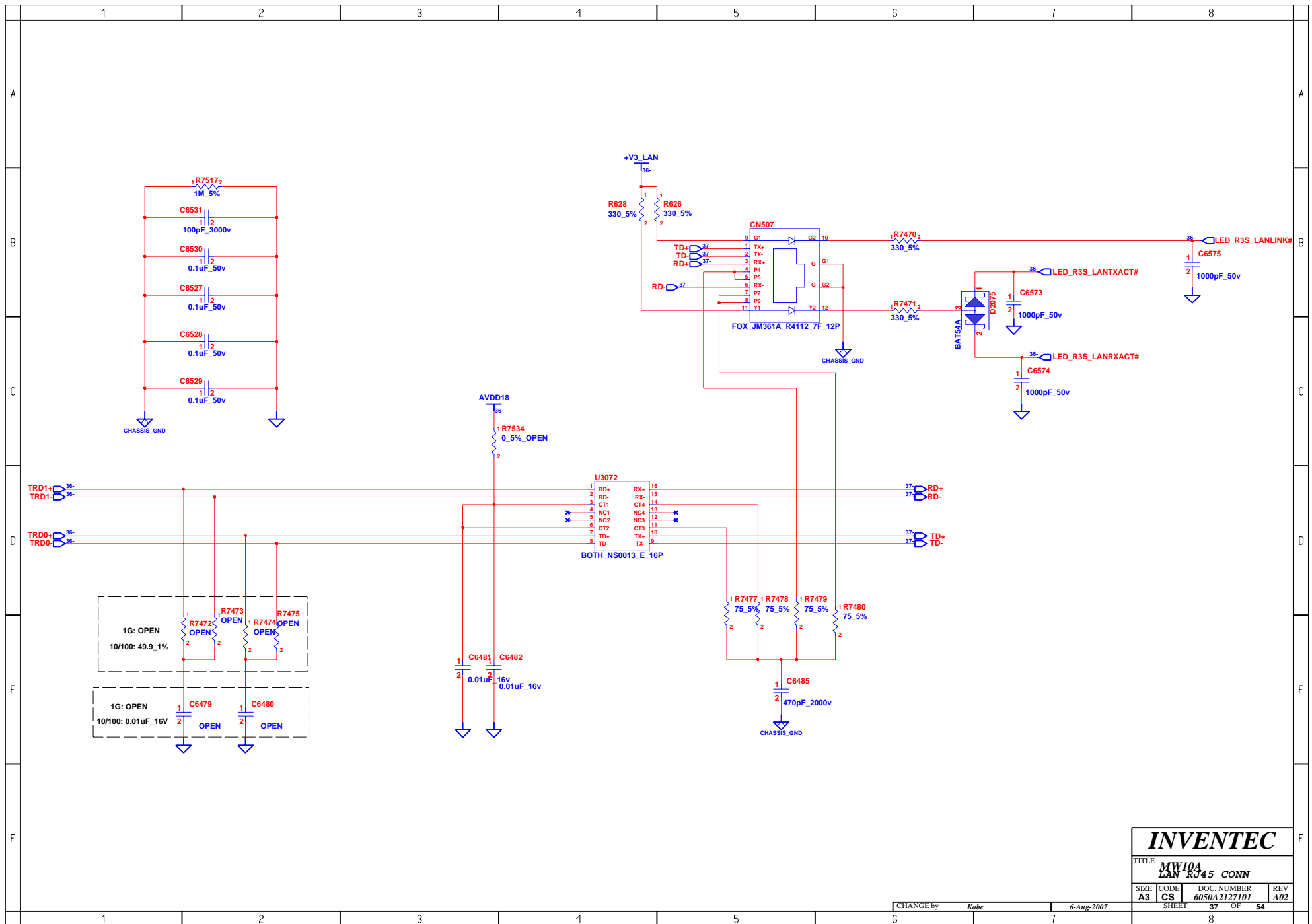
SHEET 32 OF 54



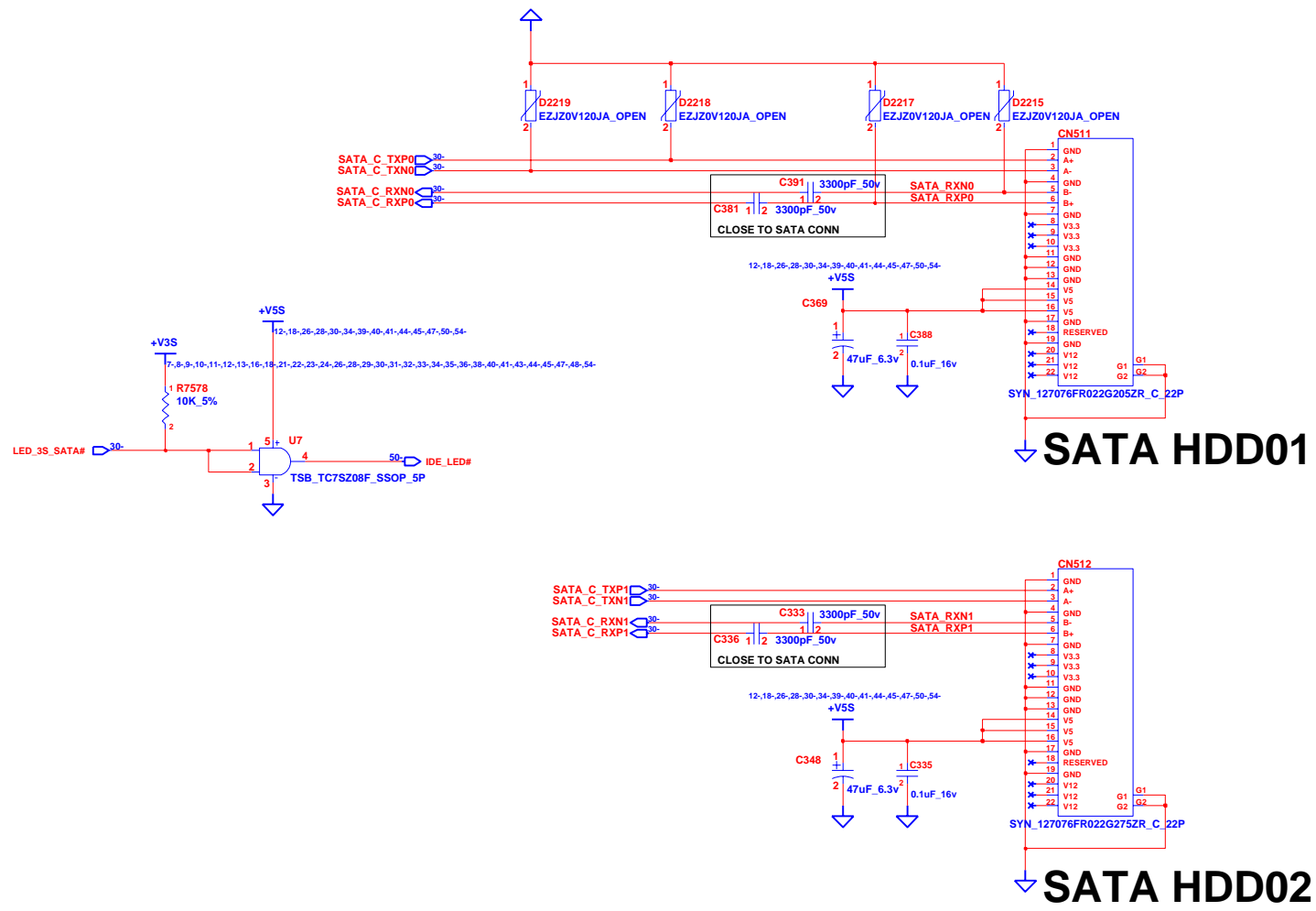




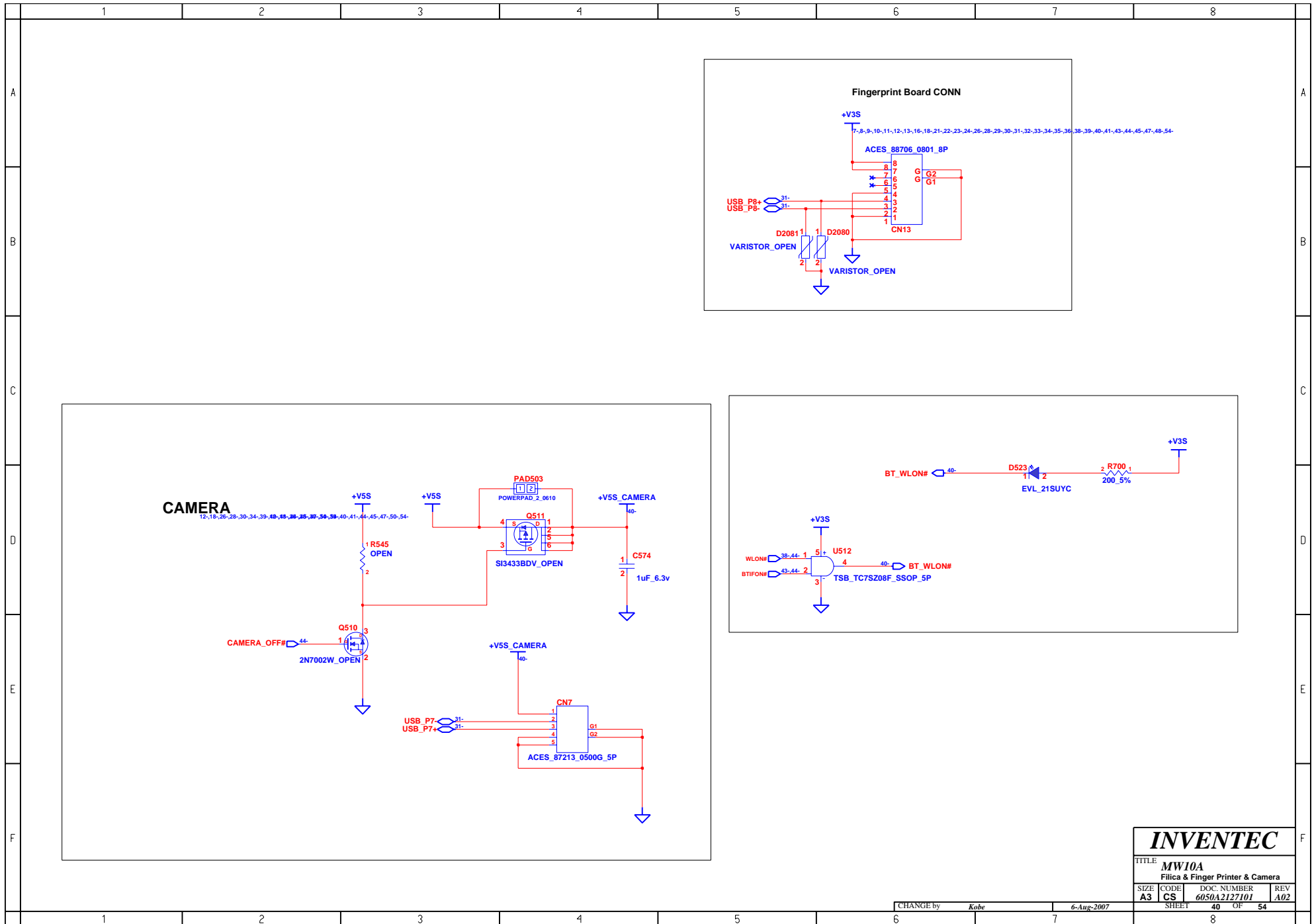




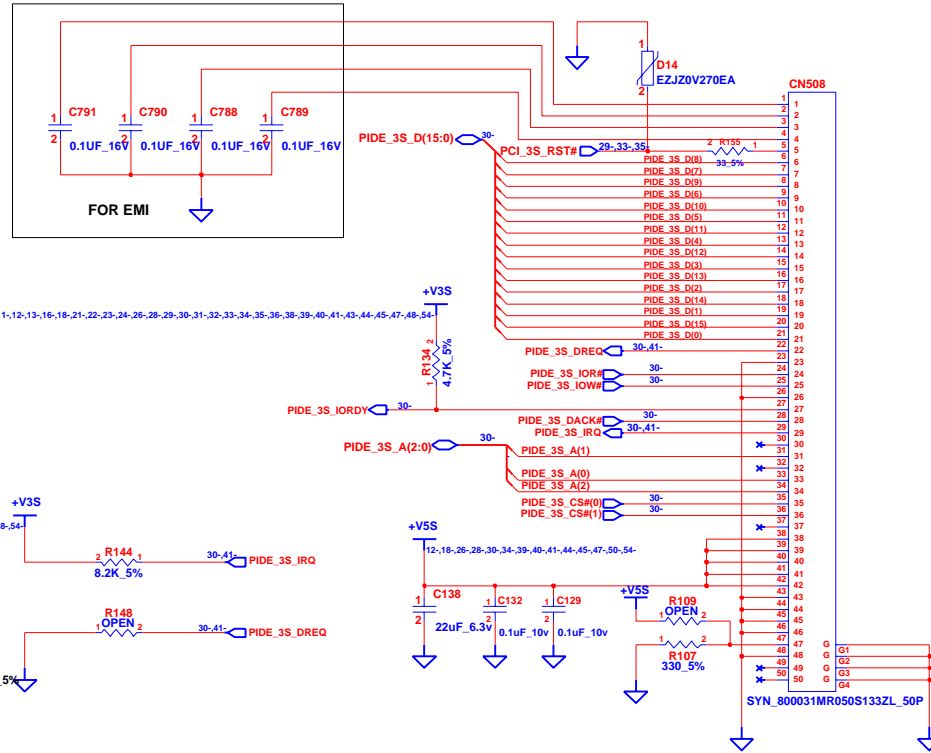




INVENTEC			
TITLE			
MW10A			
SATA HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
CHANGE by		Kobe	6-Aug-2007
SHEET		39	OF 54



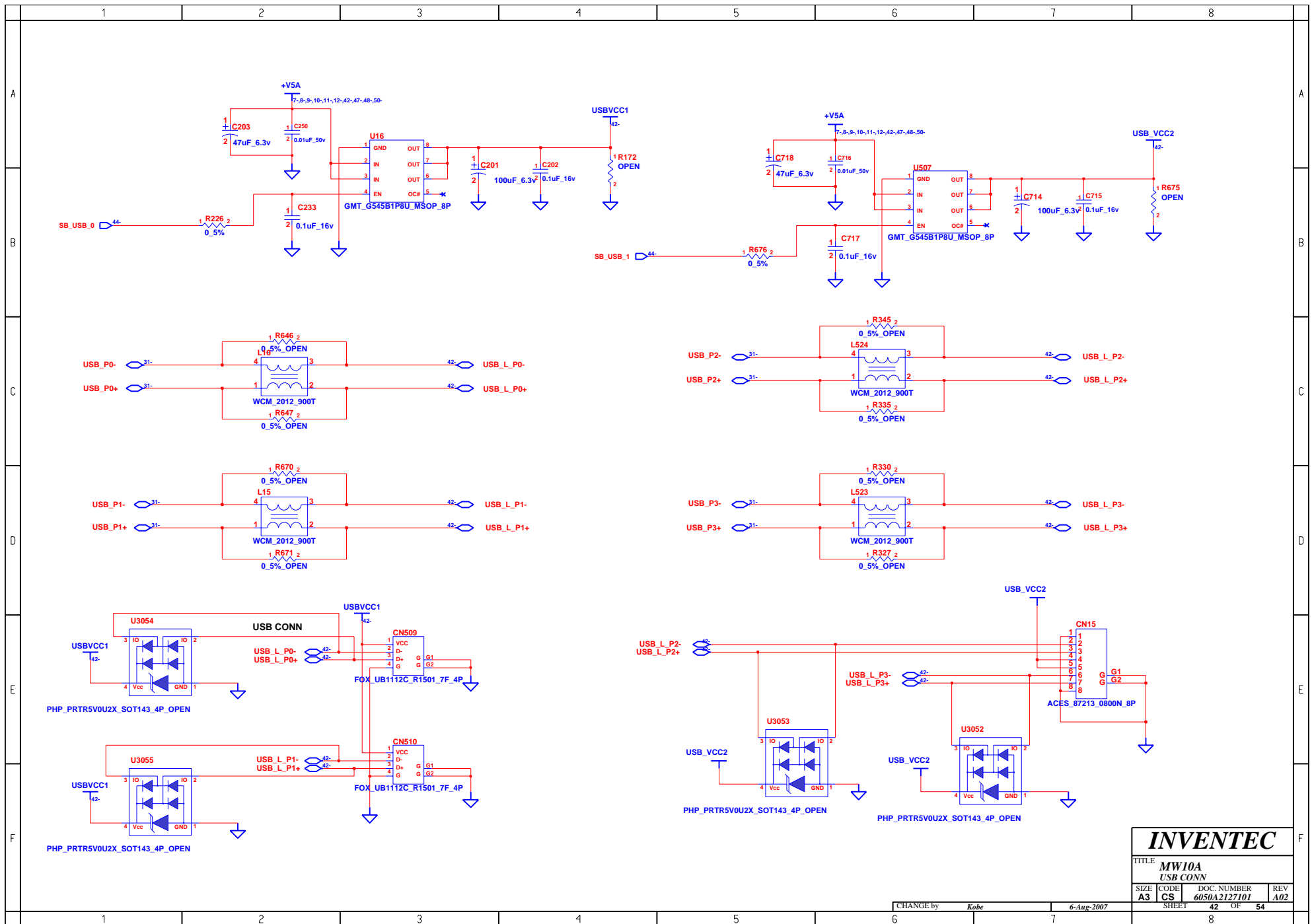
INVENTEC			
TITLE			
MW10A			
Folica & Finger Printer & Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
CHANGE by		6-Aug-2007	
SHEET		40	OF 54



**INVENTEC**

TITLE			
MW10A			
ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

CHANGE by	Kobe	6-Aug-2007	
SHEET	41	OF	54
			8

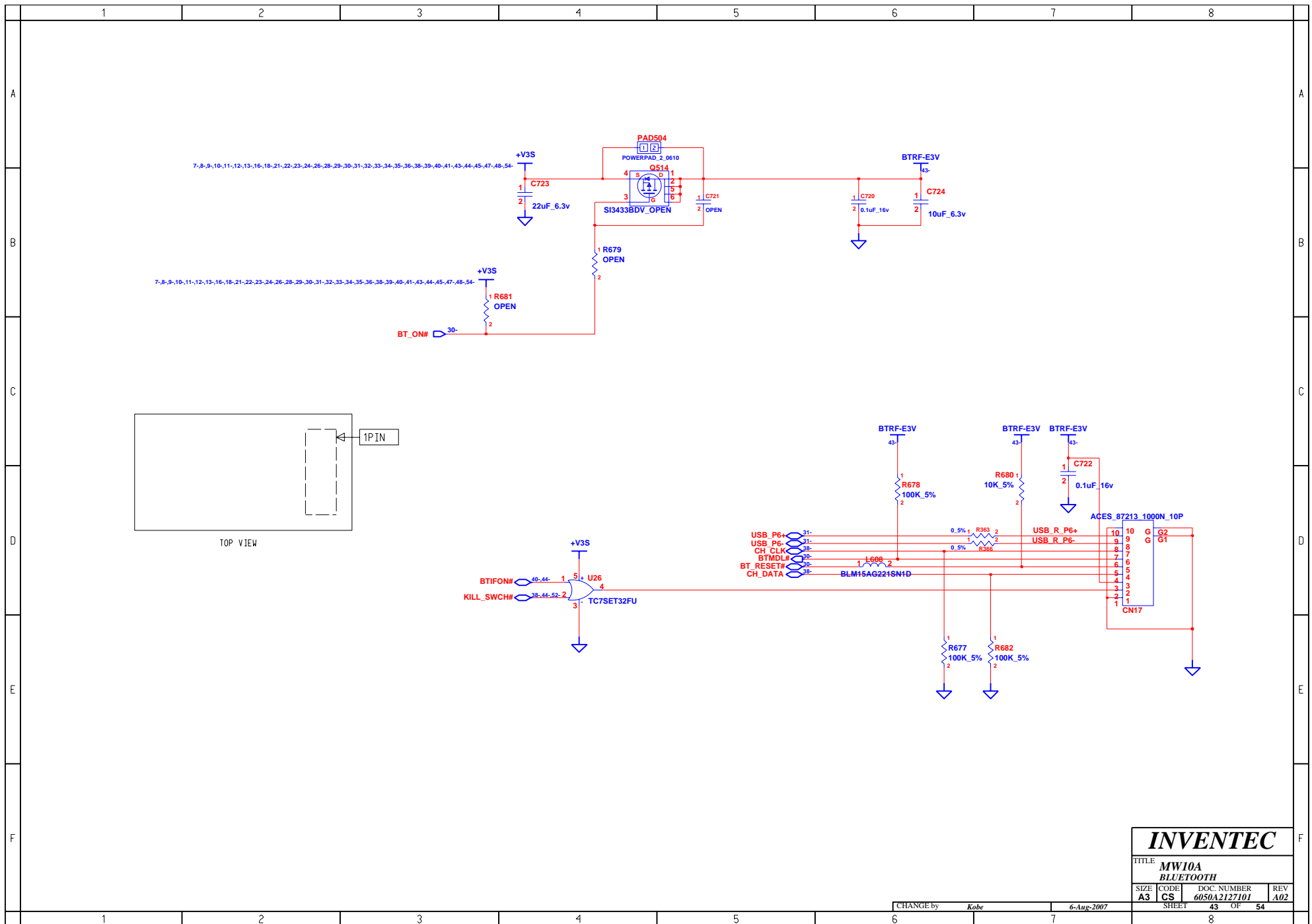


**INVENTEC**

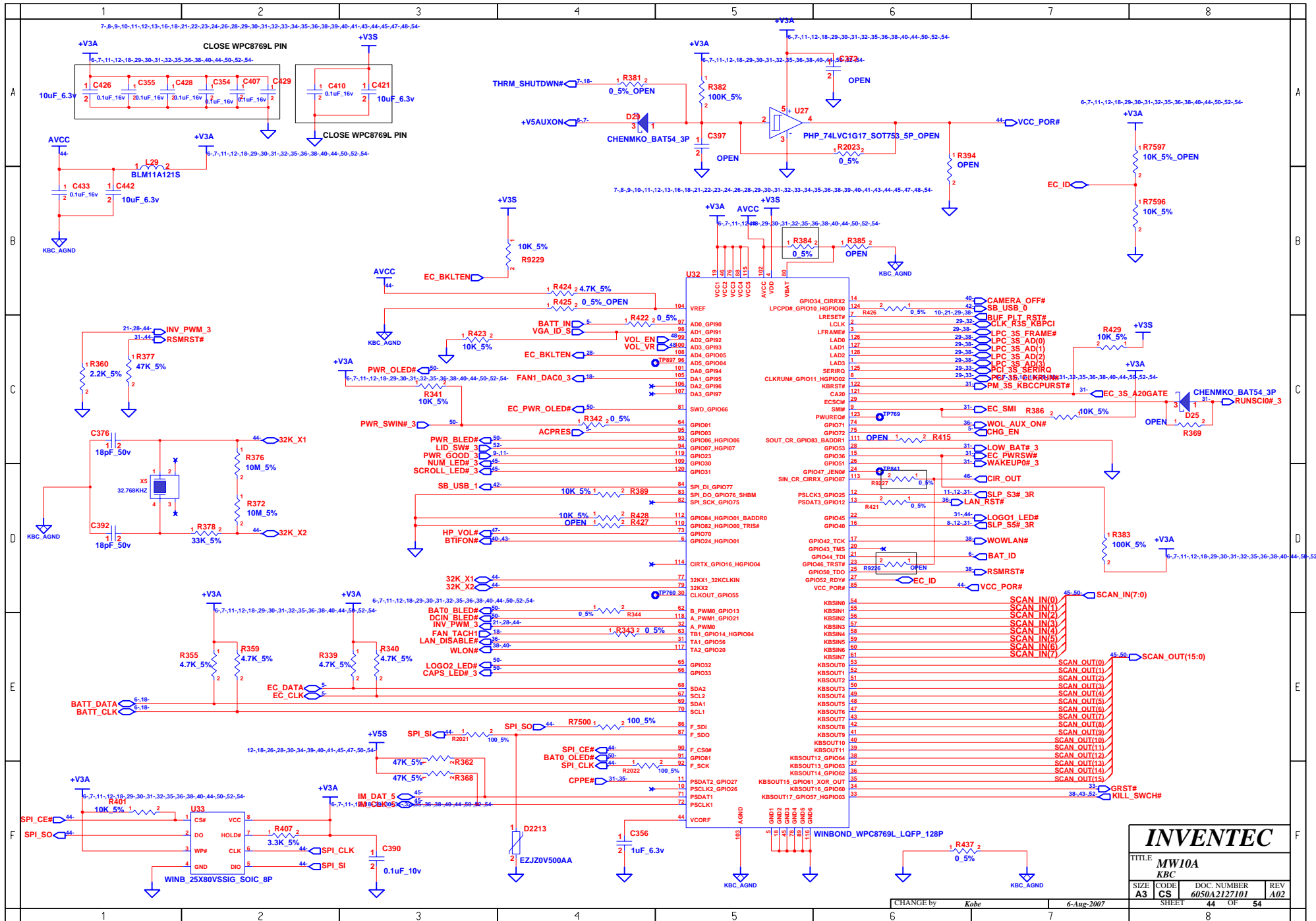
TITLE			
MW10A			
USB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02

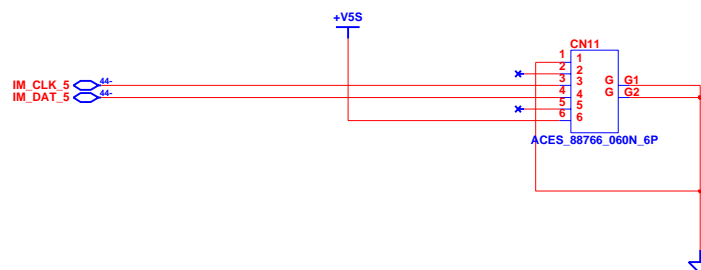
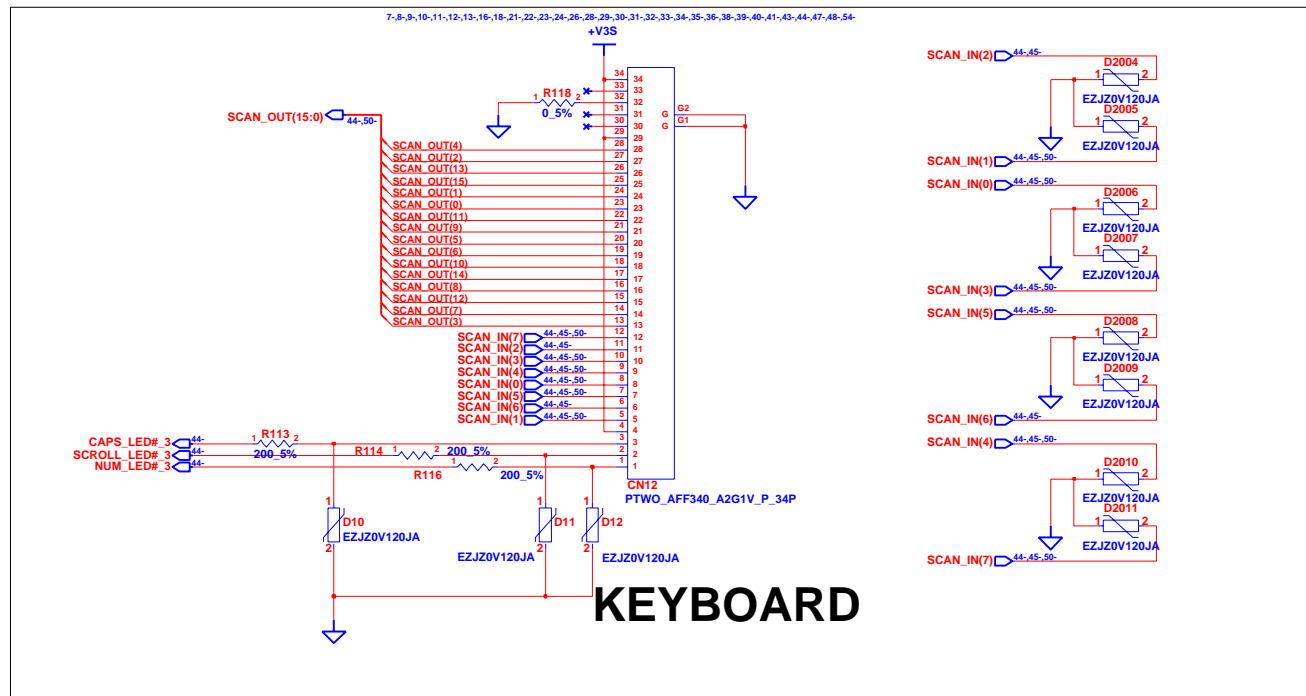
CHANGE by *Kobe* 6-Aug-2007

SHEET 42 OF 54

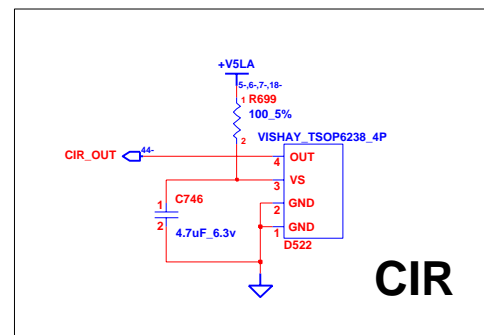


INVENTEC			
TITLE			
MW10A			
BLUETOOTH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
CHANGE by		6-Aug-2007	
SHEET		43	OF 54



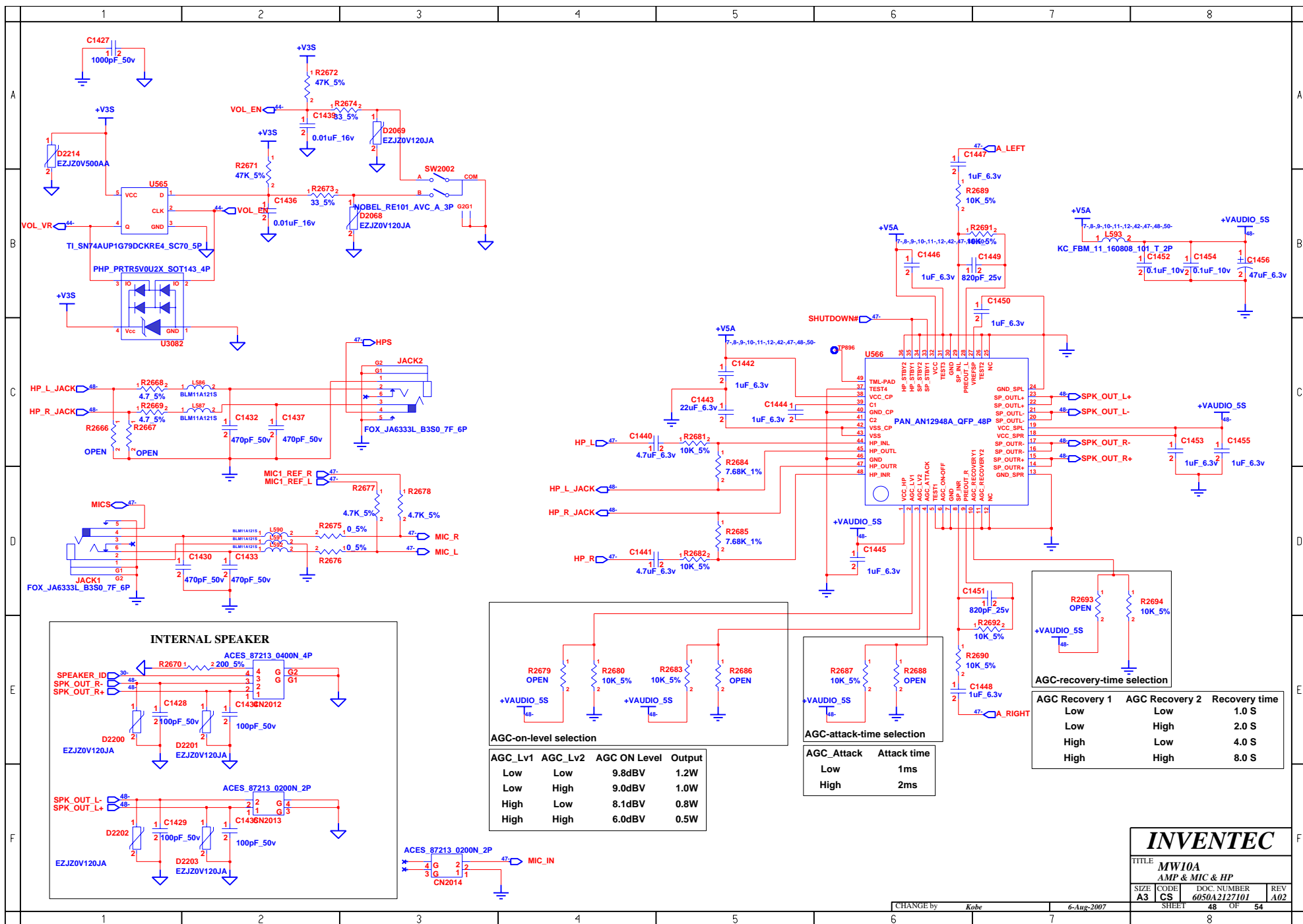


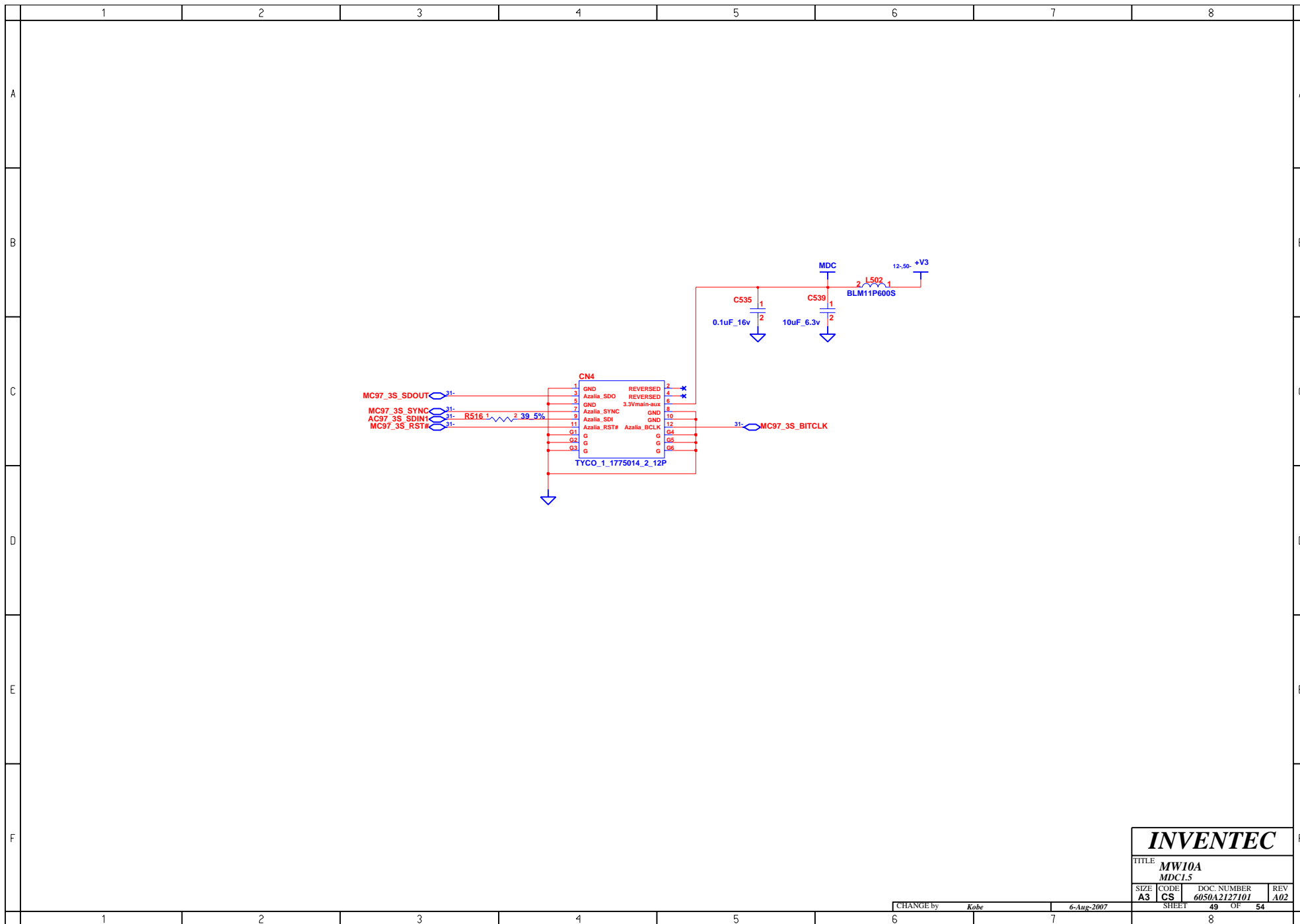
INVENTEC			
TITLE			
MW10A			
INT.KBC/POINT DEVICES			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
CHANGE by		6-Aug-2007	
SHEET		45	OF 54

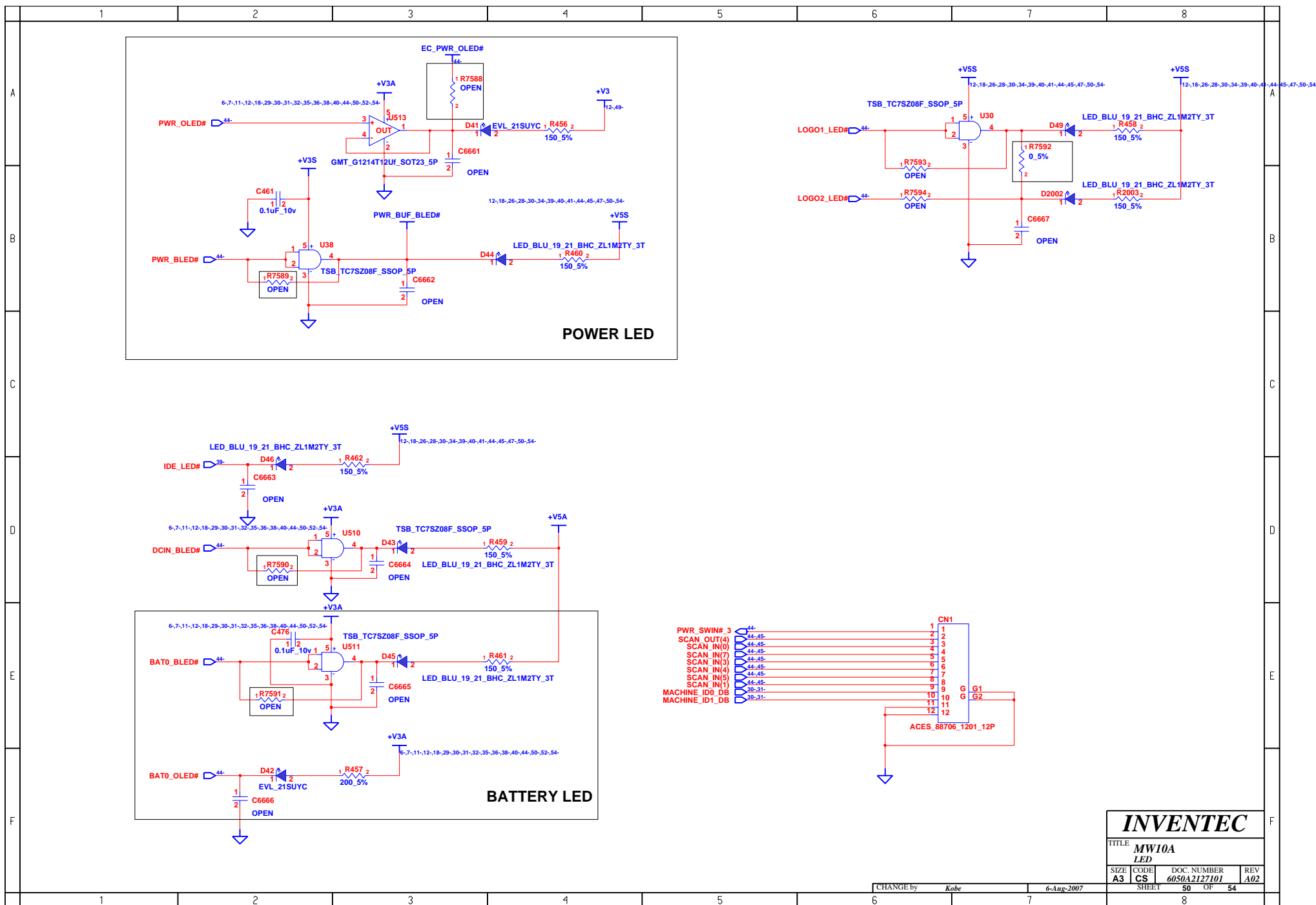


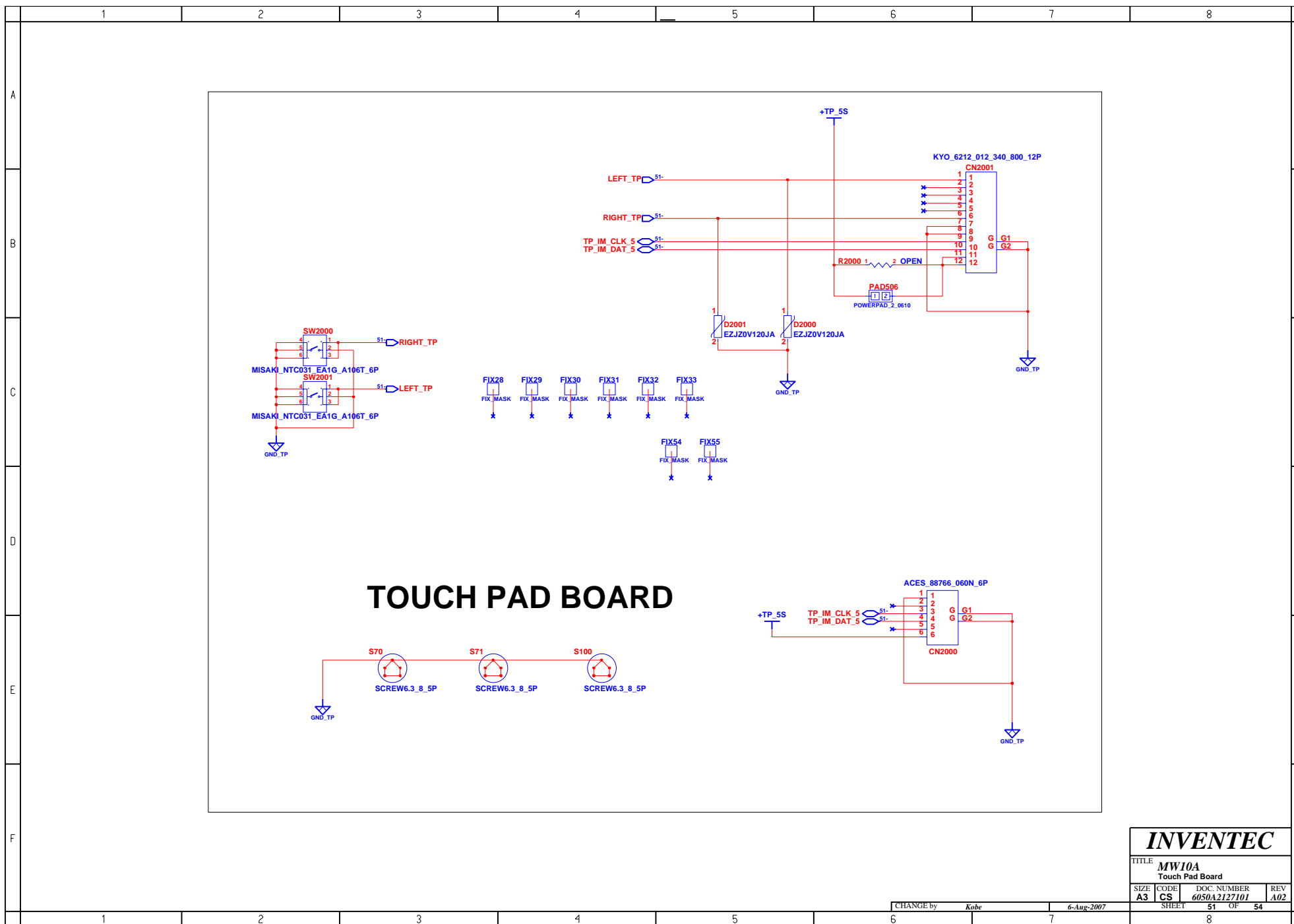
INVENTEC			
TITLE			
MW10A			
CIR & HDMI CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
CHANGE by		6-Aug-2007	
SHEET		46	OF 54

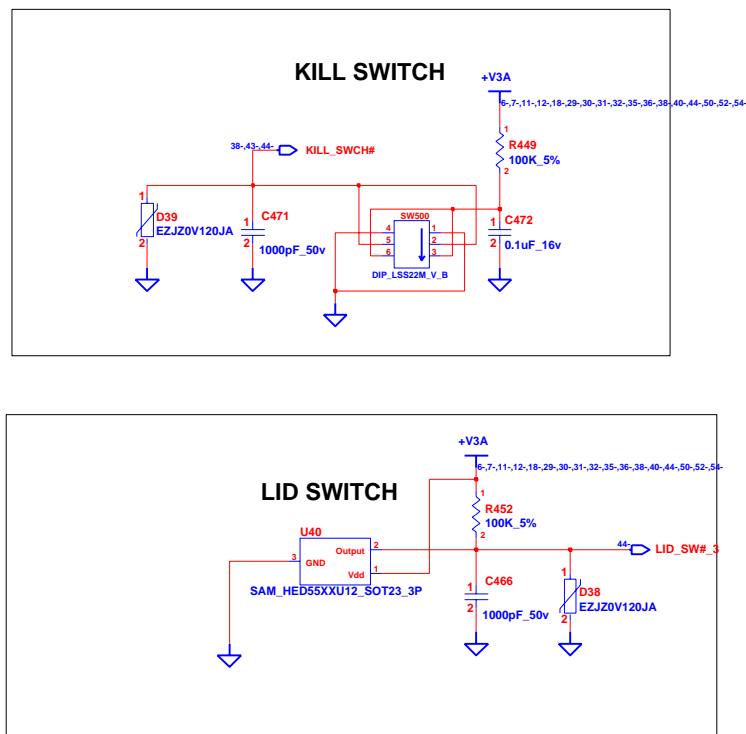






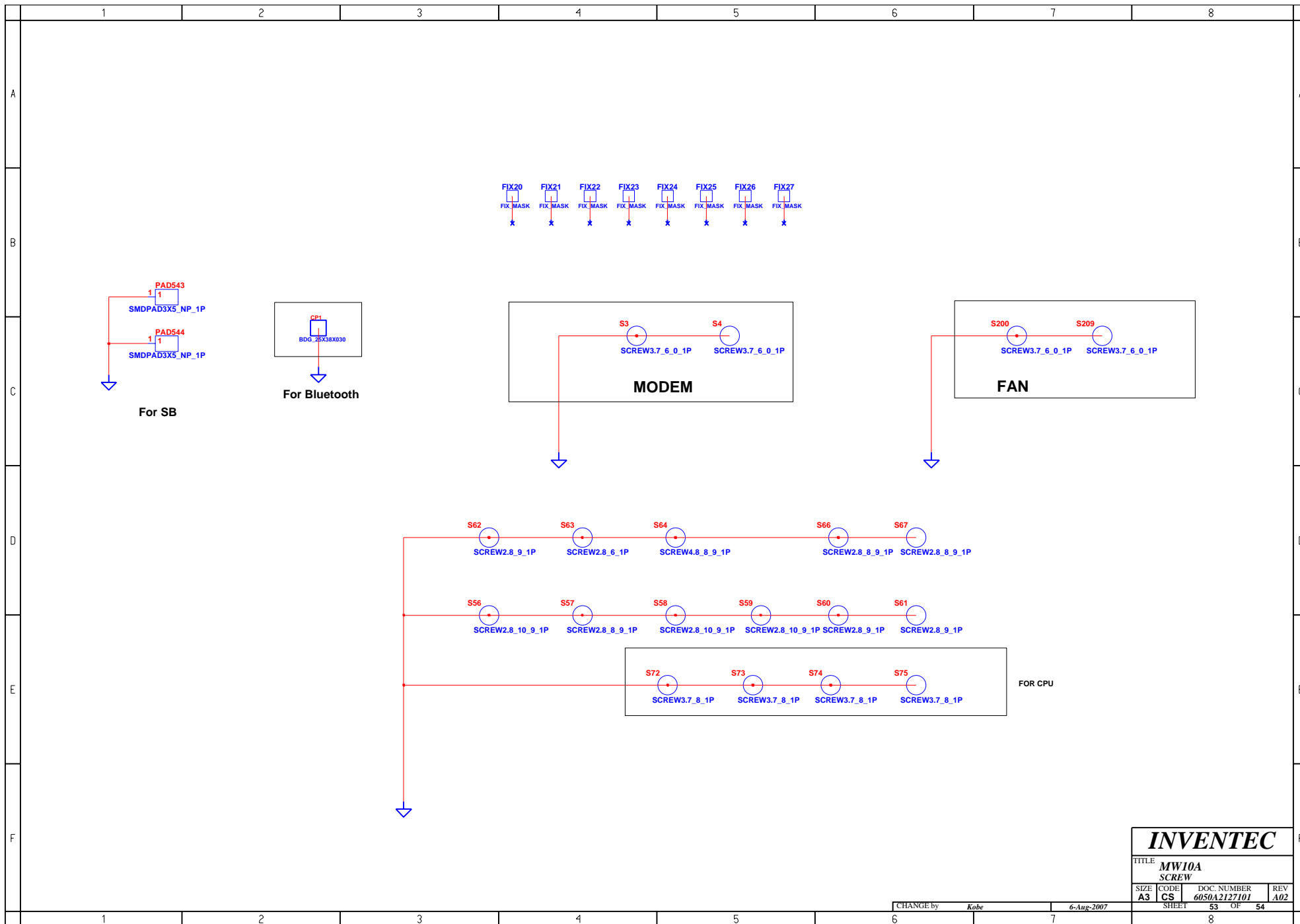




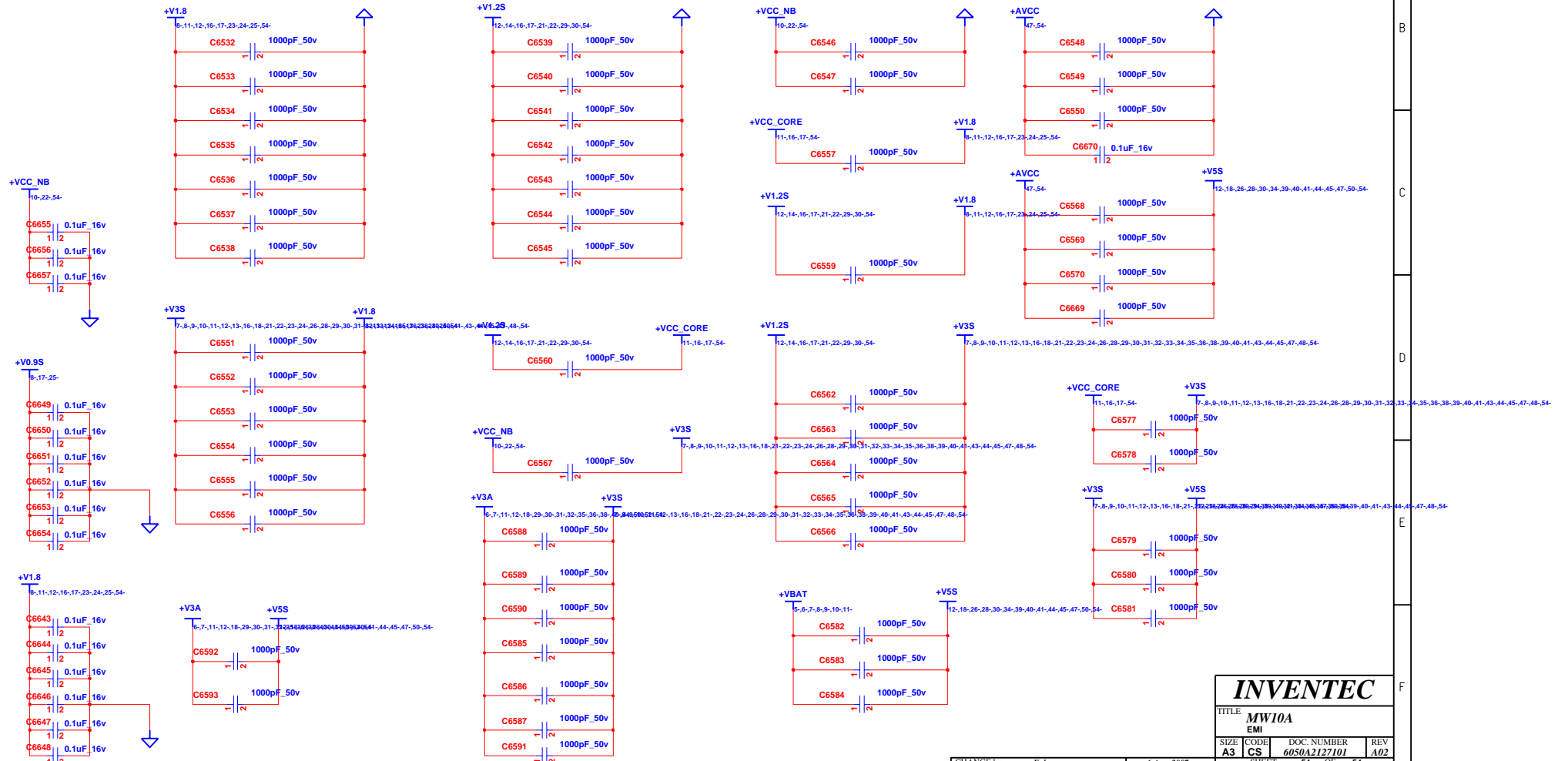


INVENTEC			
TITLE			
MW10A			
Kill SW & Lid SW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2127101	A02
SHEET		52	OF 54

CHANGE by *Kobe* 6-Aug-2007



# FOR EMI



INVENTEC			
TITLE MW10A			
EMI			
SIZE A3	CODE CS	DOC. NUMBER 6050A2127101	REV A02
SHEET 54		OF 54	