

	1	2	3	4	5	6	7	8																																																																					
A	THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF INVENTEC CORPORATION AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION, INVENTEC CORPORATION 2009 ALL RIGHT RESERVED																																																																												
B	HSF Property : RoHS																																																																												
C	<div><div>Valima 2010</div><div>AMD C2 UMA</div><div>PV Build</div><div>2009/03/11</div></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>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																			DATE	CHANGE NO.	REV	<table><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DRAWER</td><td></td><td></td><td></td><td></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="2">SIZE = 3</td><td colspan="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>		EE	DATE	POWER	DATE	DRAWER					DESIGN					CHECK					RESPONSIBLE					SIZE = 3		VER :			FILE NAME : XXXX-XXXXXX-XX					P/N	XXXXXXXXXXXX				<table><tr><td colspan="4">TITLE VV10AU2</td></tr><tr><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER MTR</td><td>REV A01</td></tr><tr><td>SHEET</td><td>1</td><td>OF</td><td>57</td></tr></table>	TITLE VV10AU2				SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01	SHEET	1	OF	57	
DATE	CHANGE NO.	REV																																																																											
	EE	DATE	POWER	DATE																																																																									
DRAWER																																																																													
DESIGN																																																																													
CHECK																																																																													
RESPONSIBLE																																																																													
SIZE = 3		VER :																																																																											
FILE NAME : XXXX-XXXXXX-XX																																																																													
P/N	XXXXXXXXXXXX																																																																												
TITLE VV10AU2																																																																													
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01																																																																										
SHEET	1	OF	57																																																																										
	1	2	3	4	5	6	7	8																																																																					

TABLE OF CONTENTS

PAGE

5- DC& BATTERY CHARGER
 6- SELECT & BATTERY CONN
 7- +V5A,+V3A & +V2.5S
 8- OCP
 9- +VCC_NB & +V1.2A
 10- +VCC_CORE
 11- +V1.1S & +V1.5S_VGA
 12- DDR2 POWER
 13- POWER(SLEEP)
 14- POWER(SEQUENCE)

PAGE

15- CPU-1
 16- CPU-2
 17- CPU-3
 18- CPU-4
 19- DDR2-DIMM0
 20- DDR2-DIMM1
 22- THERMAL&FAN CONTROLLER
 23- RS880M-1
 24- RS880M-2
 25- RS880M-3
 26- RS880M-4
 27- CRT
 28- LCD CONN & WEBCAM CONN
 39- SB820-1
 30- SB820-2
 31- SB820-4
 32- SB820-3
 33- SB820-5

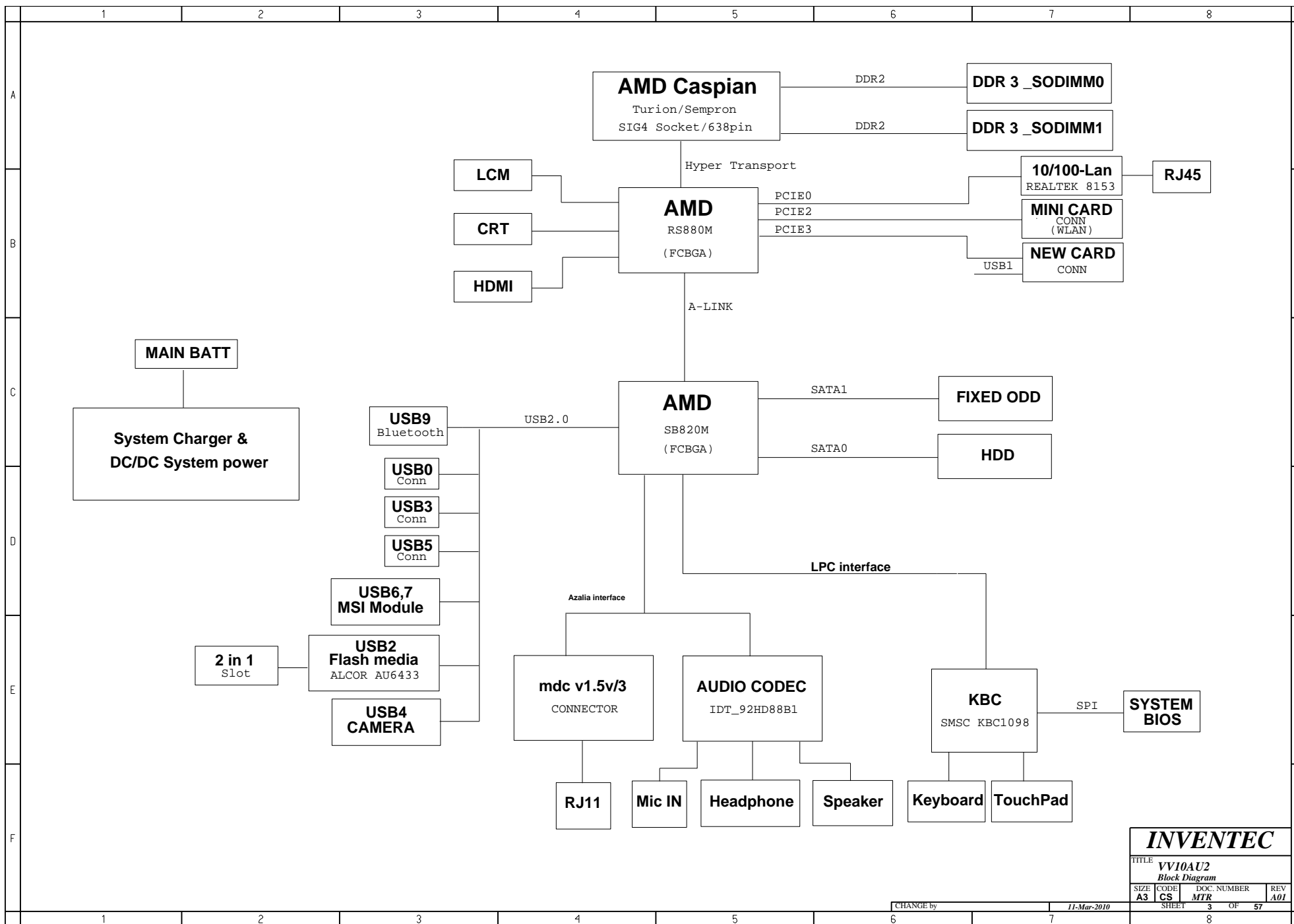
PAGE

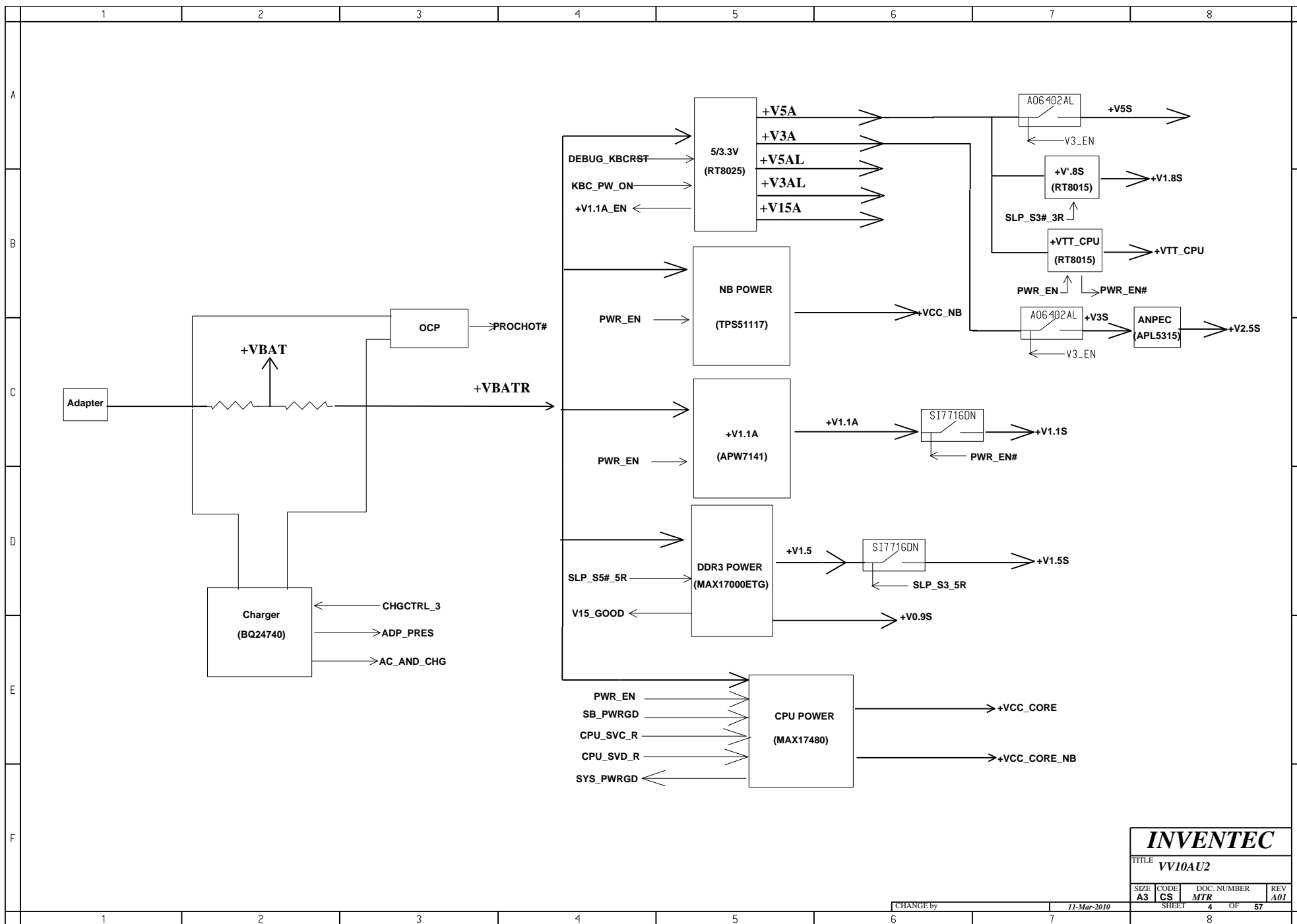
34- KBC
 35- KB & TP CONN
 36- SPI
 37- HDD & ODD CONN
 38- USB CONN
 39- AZALIA CODEC
 40- Earphone & MIC JACK
 41- MDC CONN
 42- NIC 10/100 RJ45 CONN
 43- 10/100-LAN- CONTROLLER
 44- Mini CARD & BT CONN
 45- NEW CARD
 46- SW/B & LED/B CONN
 47- SCREW
 48- Power Plan CAP
 49- HDMI
 50- SD/MMC Card Reader
 51- Headphone & MIC JACK
 52- Power Button & LID Switch Board
 53- 14"ODD Extend Board
 54- USB Right Side Board
 55- Pick Button Board

INVENTEC

TITLE			
VV10AU2			
Table OF Content			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		2	OF 57

CHANGE by 11-Mar-2010





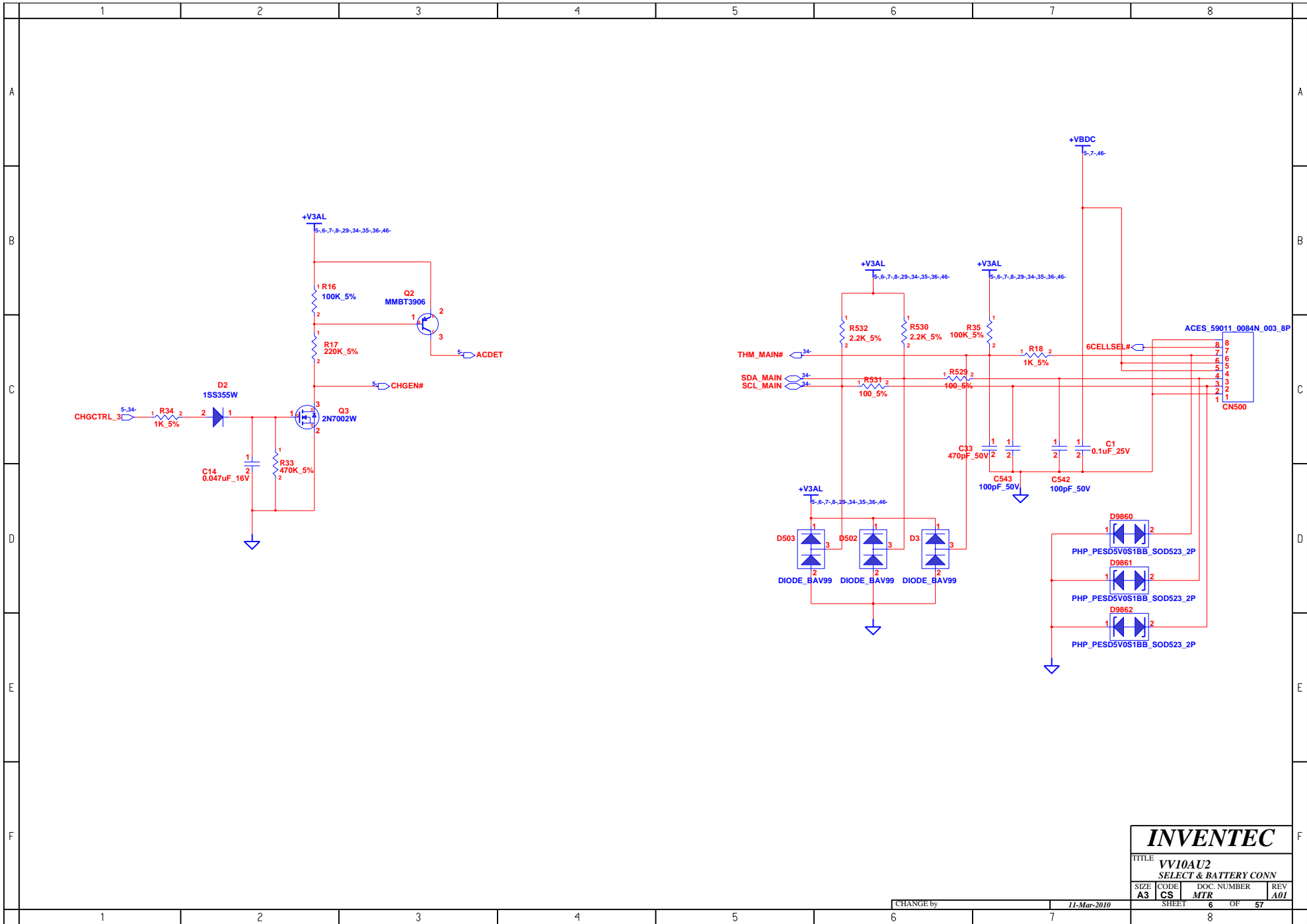
INVENTEC

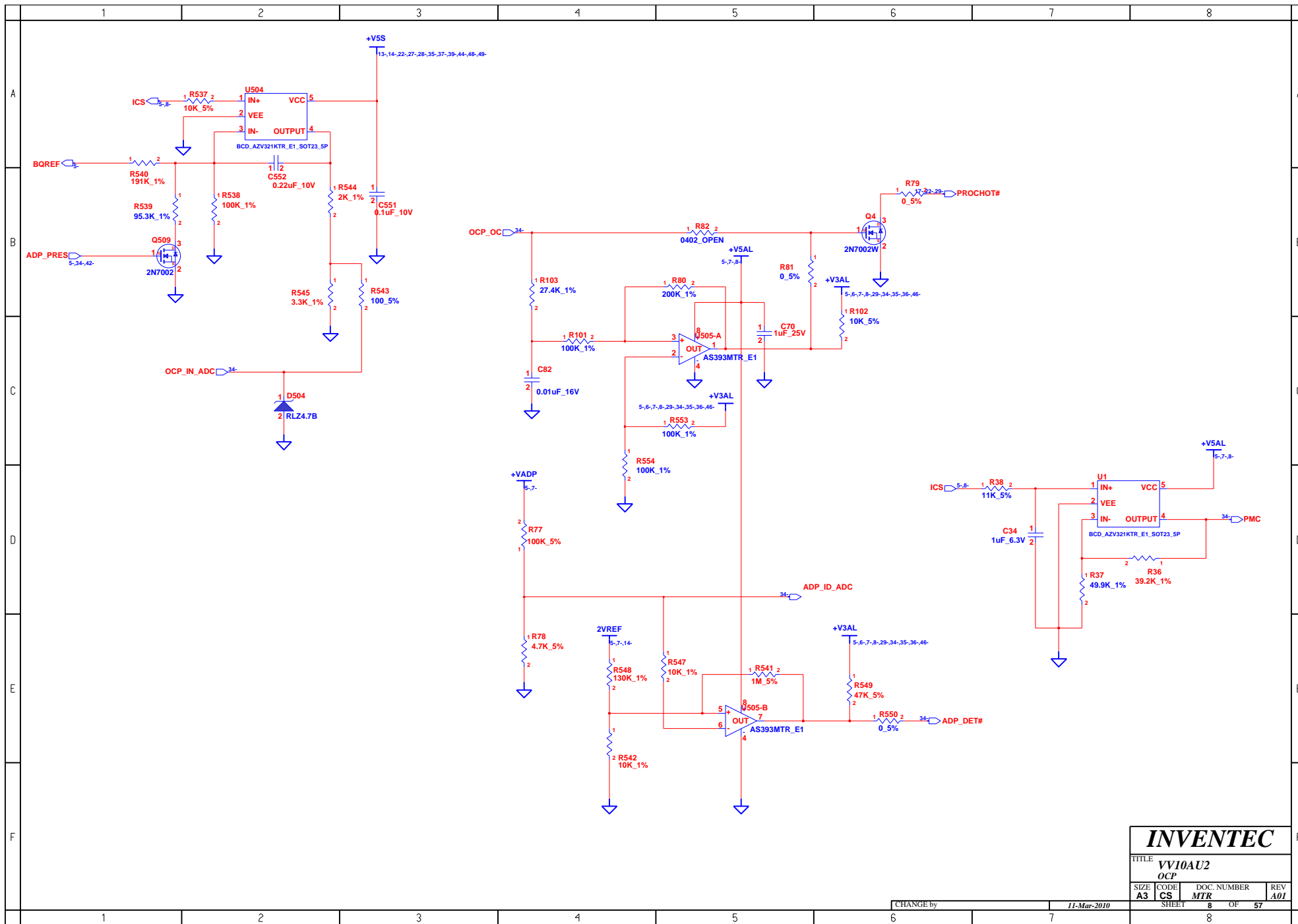
TITLE
VV10AU2

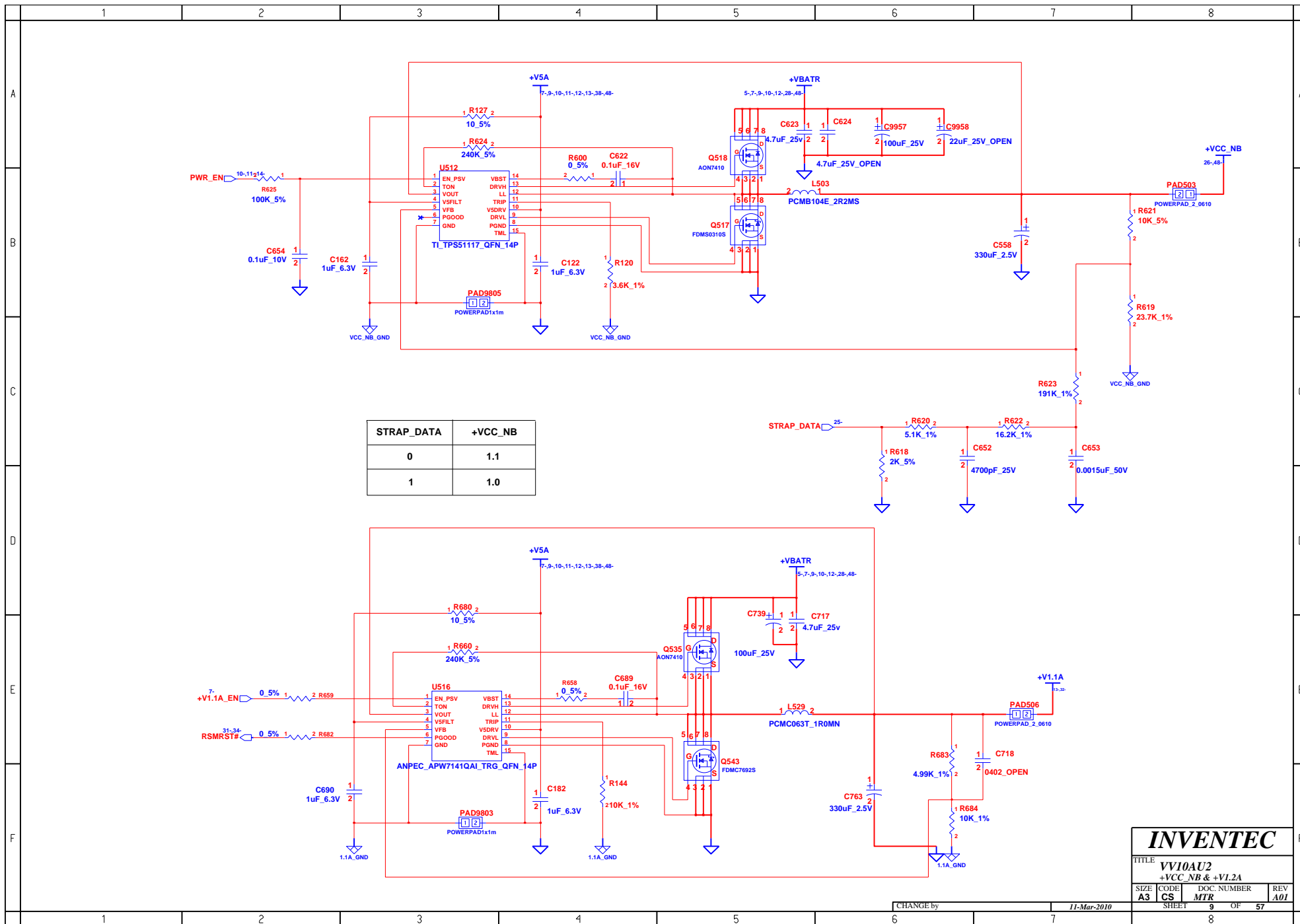
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 4 OF 57







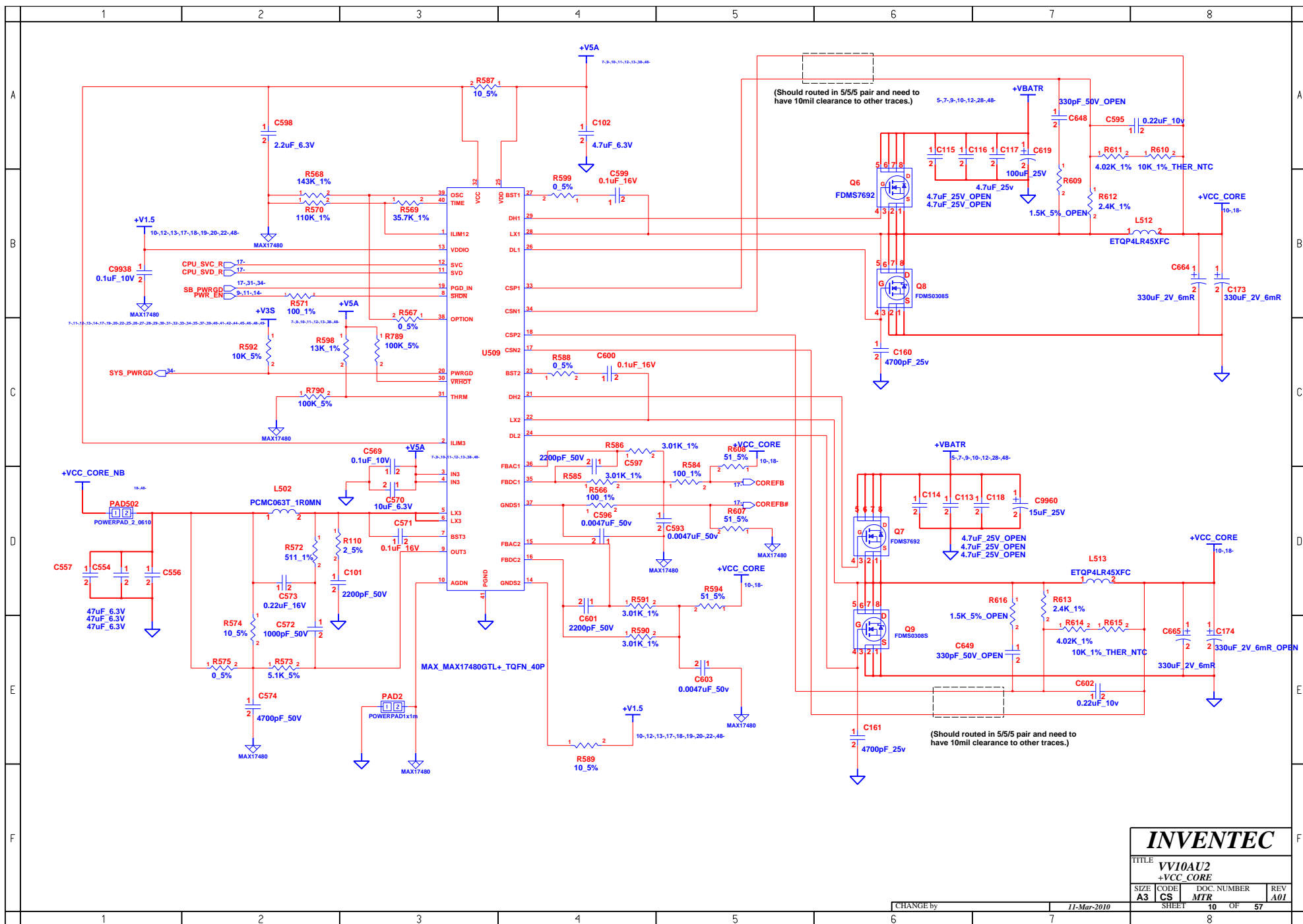
INVENTEC

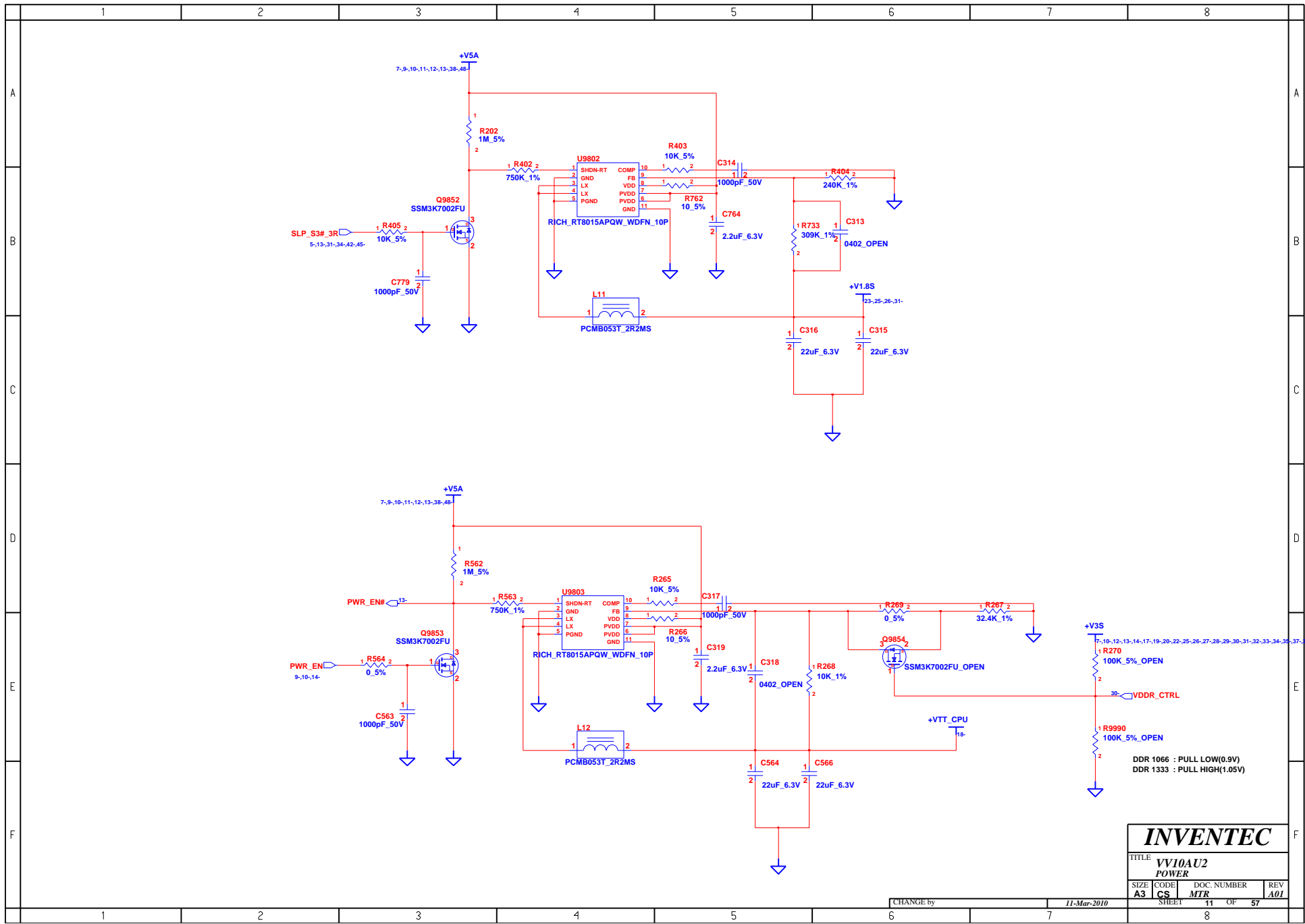
TITLE
VV10AU2
+VCC_NB & +V1.2A

SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
------------	------------	--------------------	------------

CHANGE by 11-Mar-2010

SHEET 9 OF 57





INVENTEC

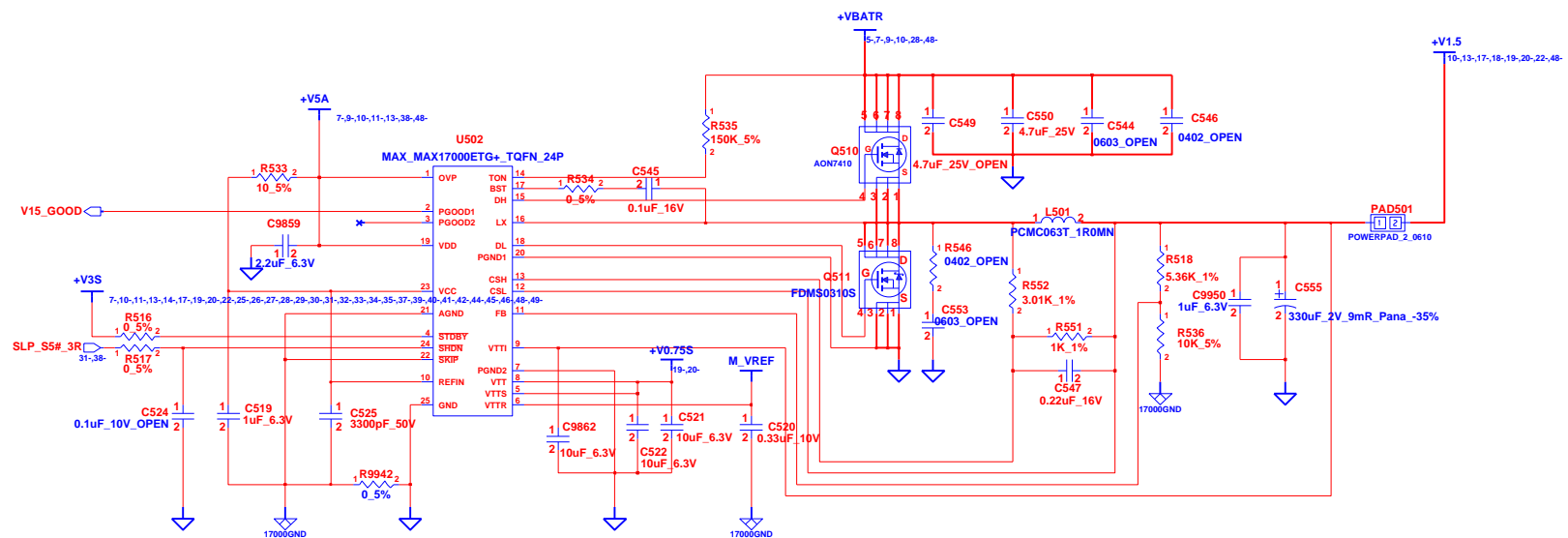
TITLE **VV10AU2**
POWER

SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 11 OF 57

8



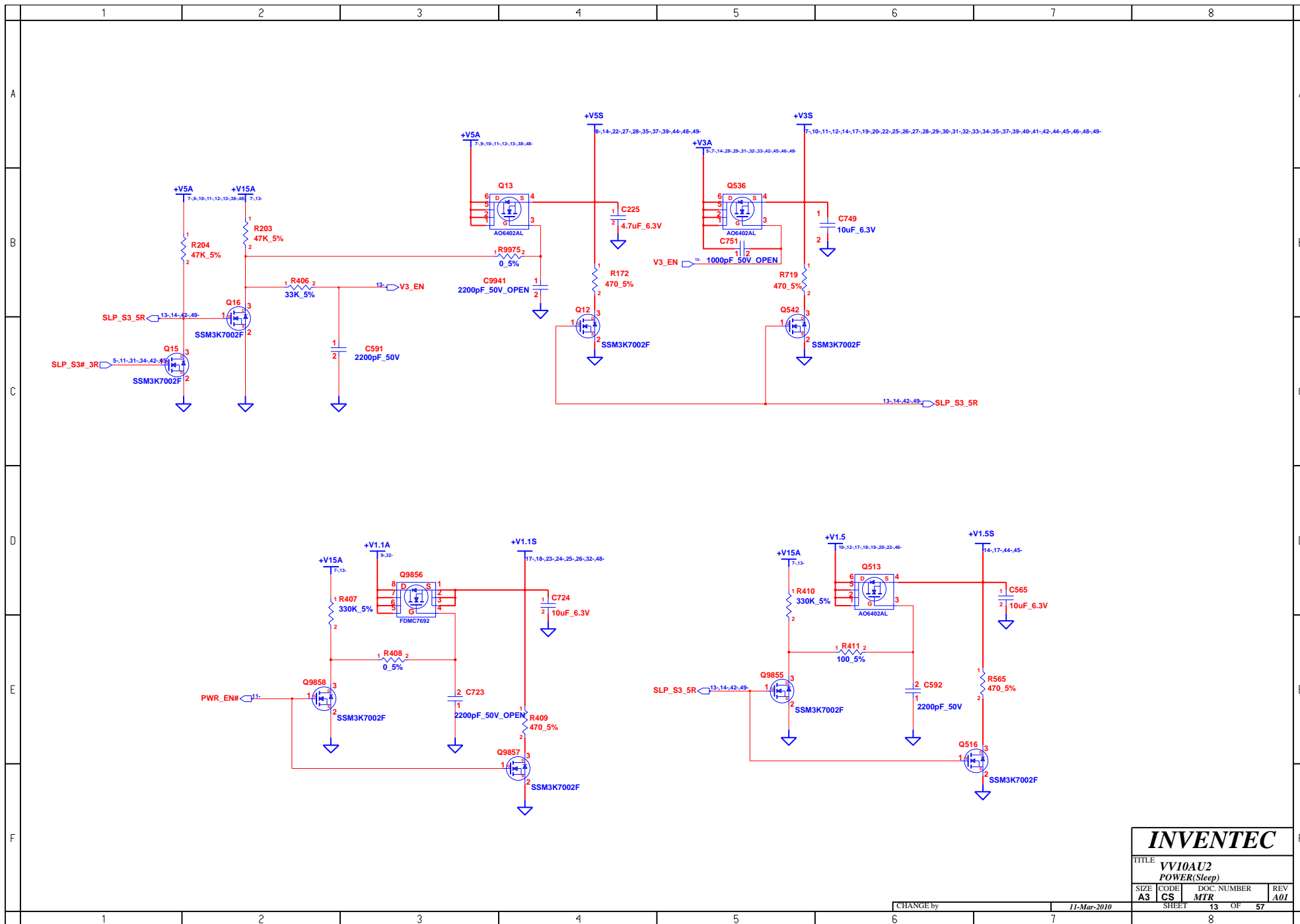
NOTE: DDR2 REGULATOR

INVENTEC

TITLE VV10AU2 DDR2 POWER			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01

CHANGE by 11-Mar-2010

SHEET 12 OF 57

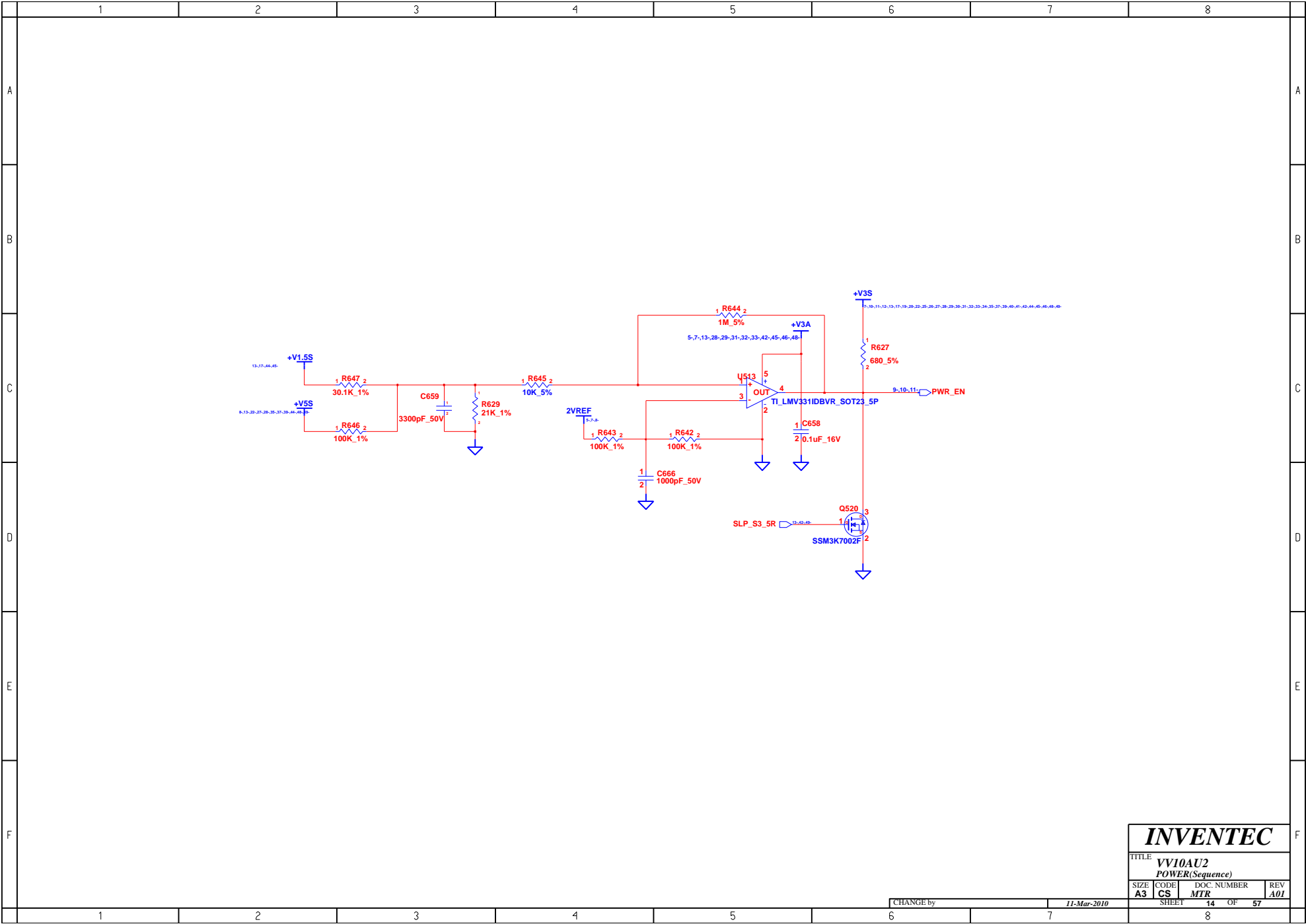


INVENTEC

TITLE			
VV10AU2			
POWER(Sleep)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 13 OF 57

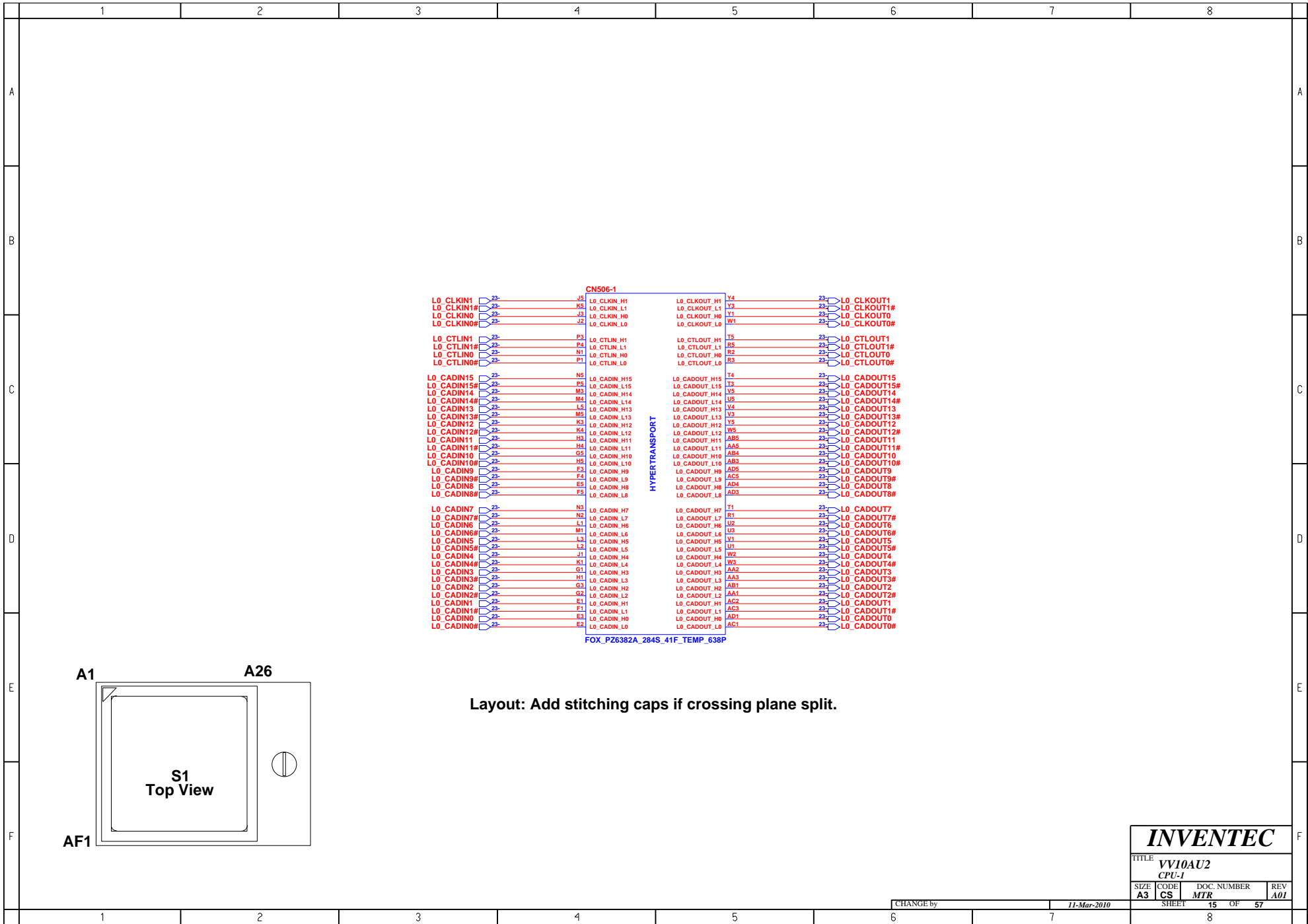


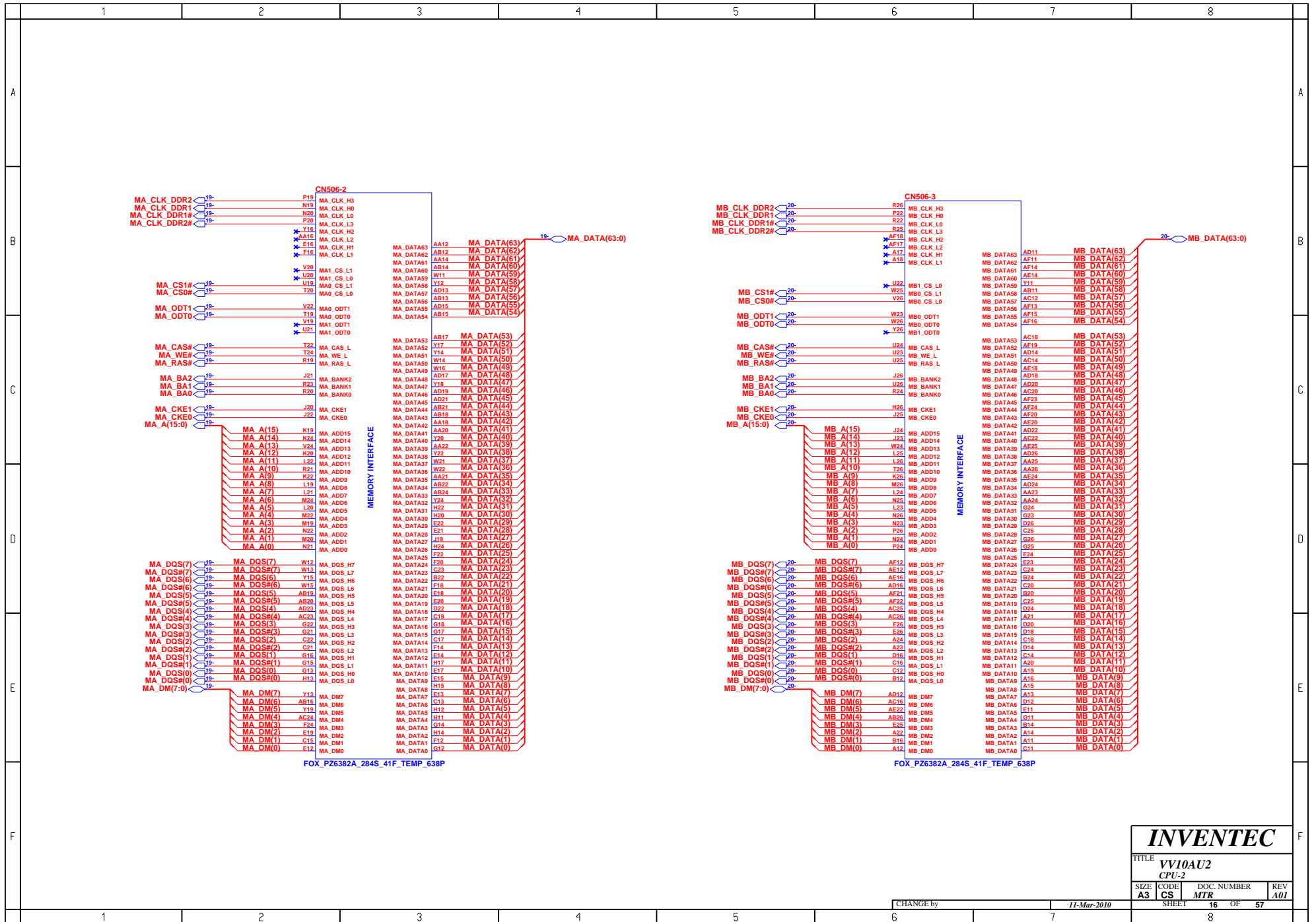
INVENTEC

TITLE			
VV10AU2			
POWER(Sequence)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

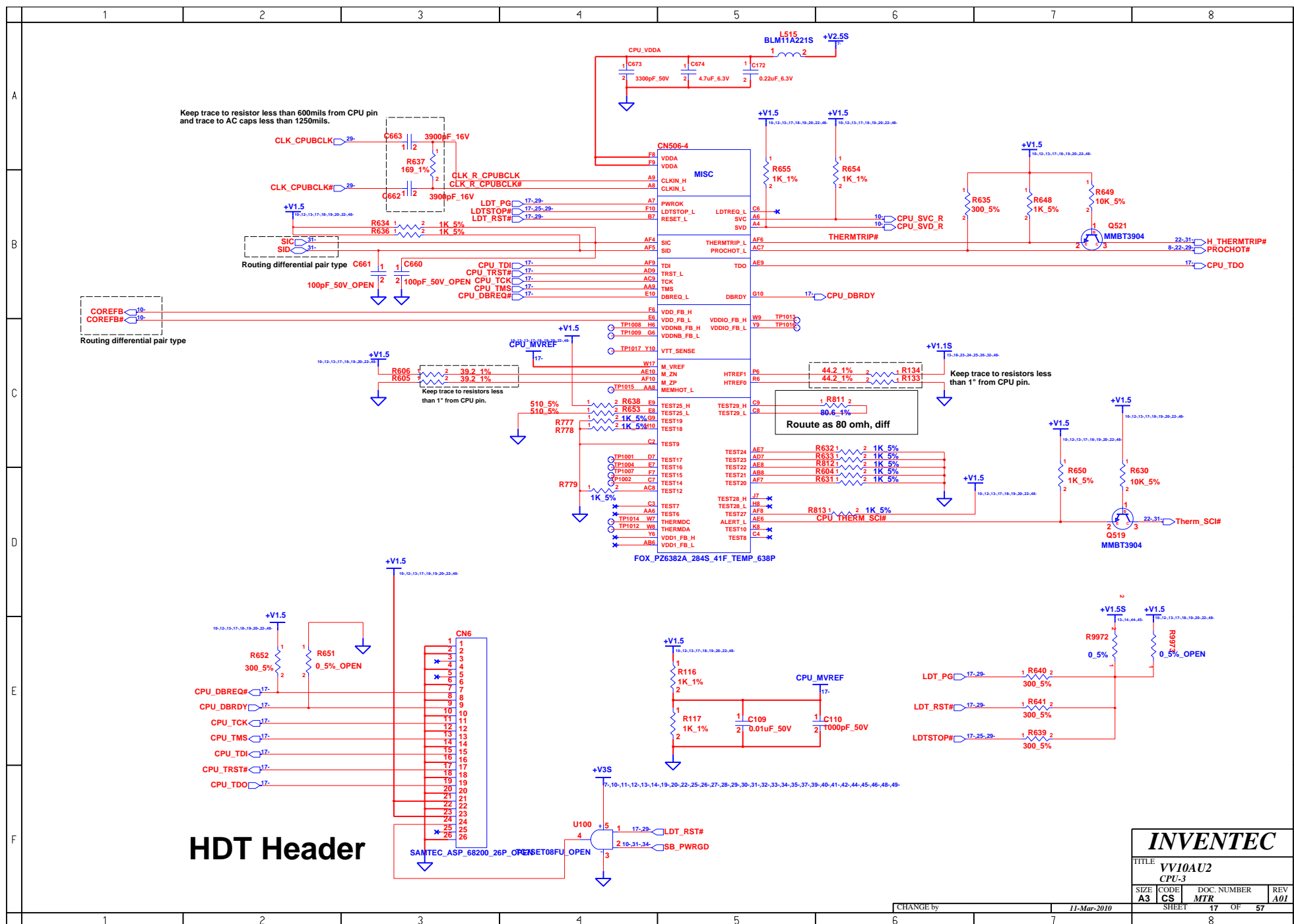
SHEET 14 OF 57

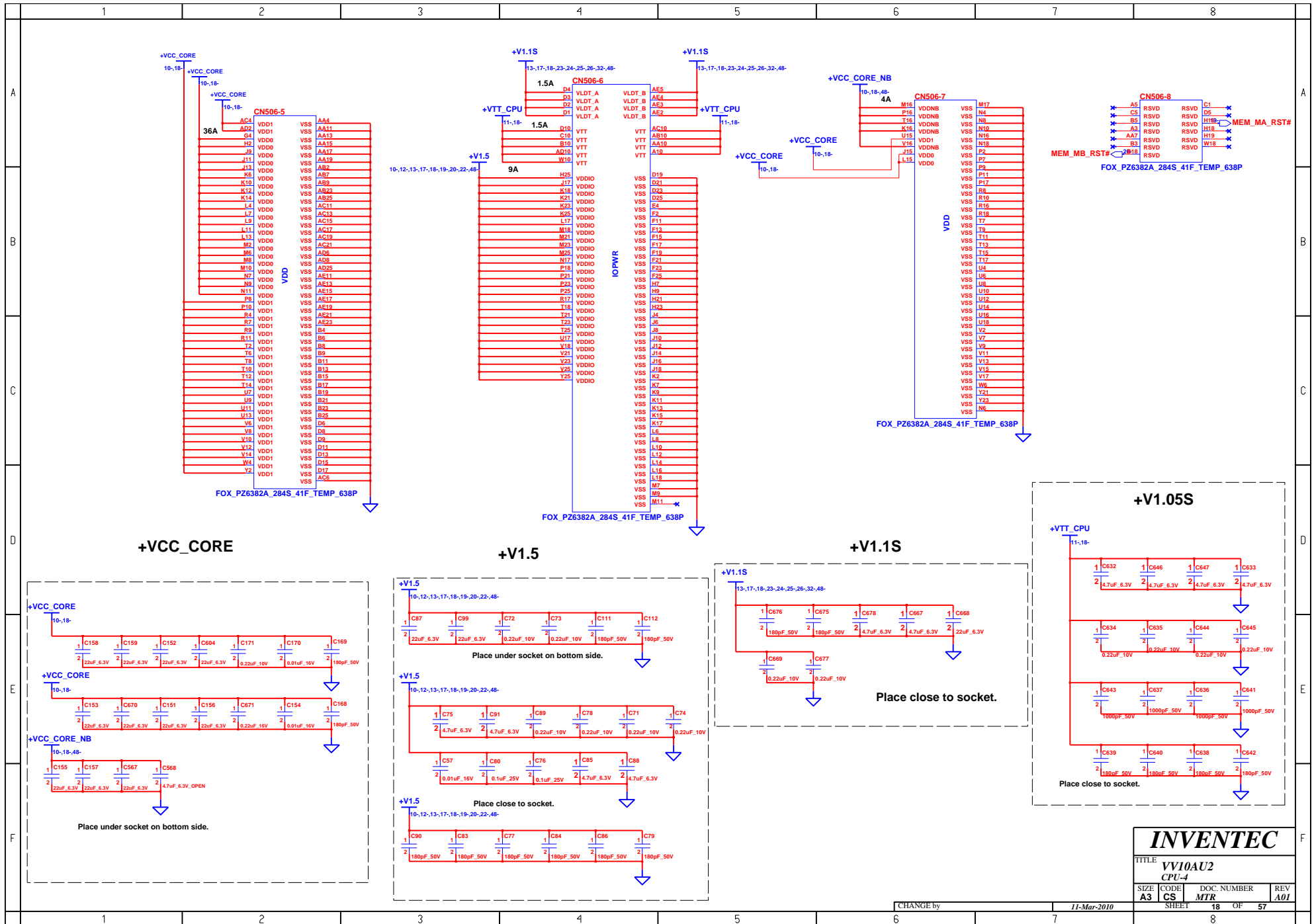




INVENTEC

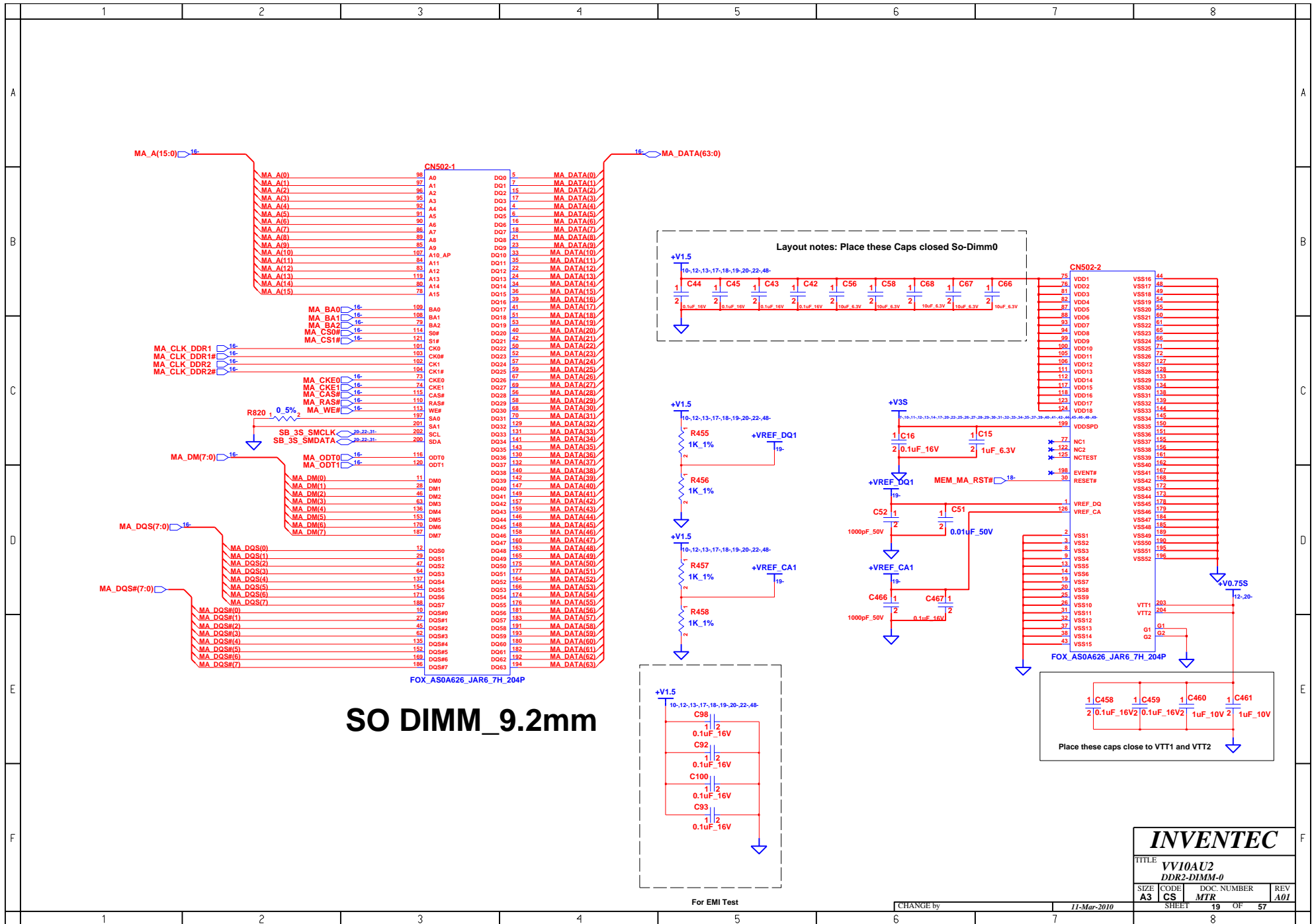
TITLE			
VV10AU2			
CPU-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		16	OF 57

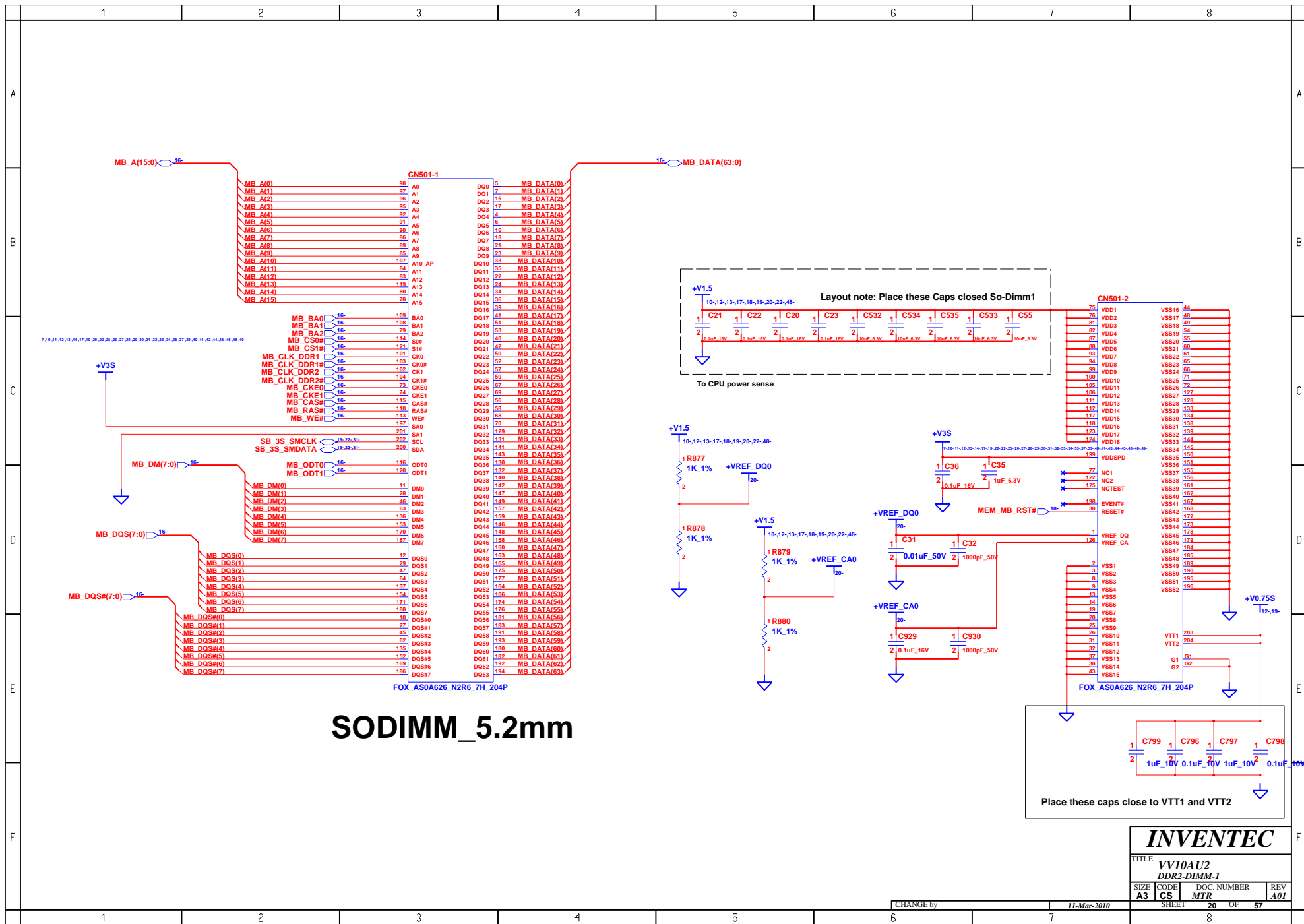




INVENTEC

TITLE VV10AU2 CPU-4			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
CHANGE by		11-Mar-2010	
SHEET		18	OF 57





SODIMM_5.2mm

INVENTEC

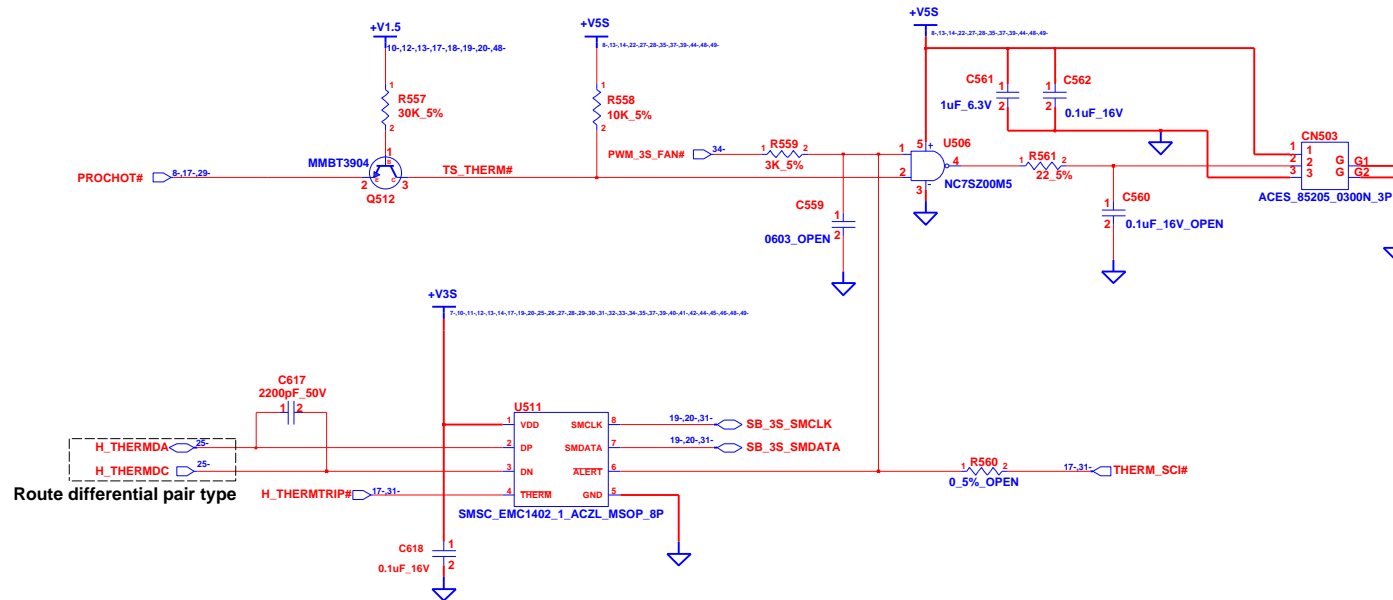
TITLE
VV10AU2
DDR2-DIMM-1

SIZE CODE DOC. NUMBER REV
A3 CS MTR 20 OF 57 A01

CHANGE by 11-Mar-2010

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by		11-Mar-2010	
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE VVI0AU2 DDR2-DAMPING			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		21	OF 57



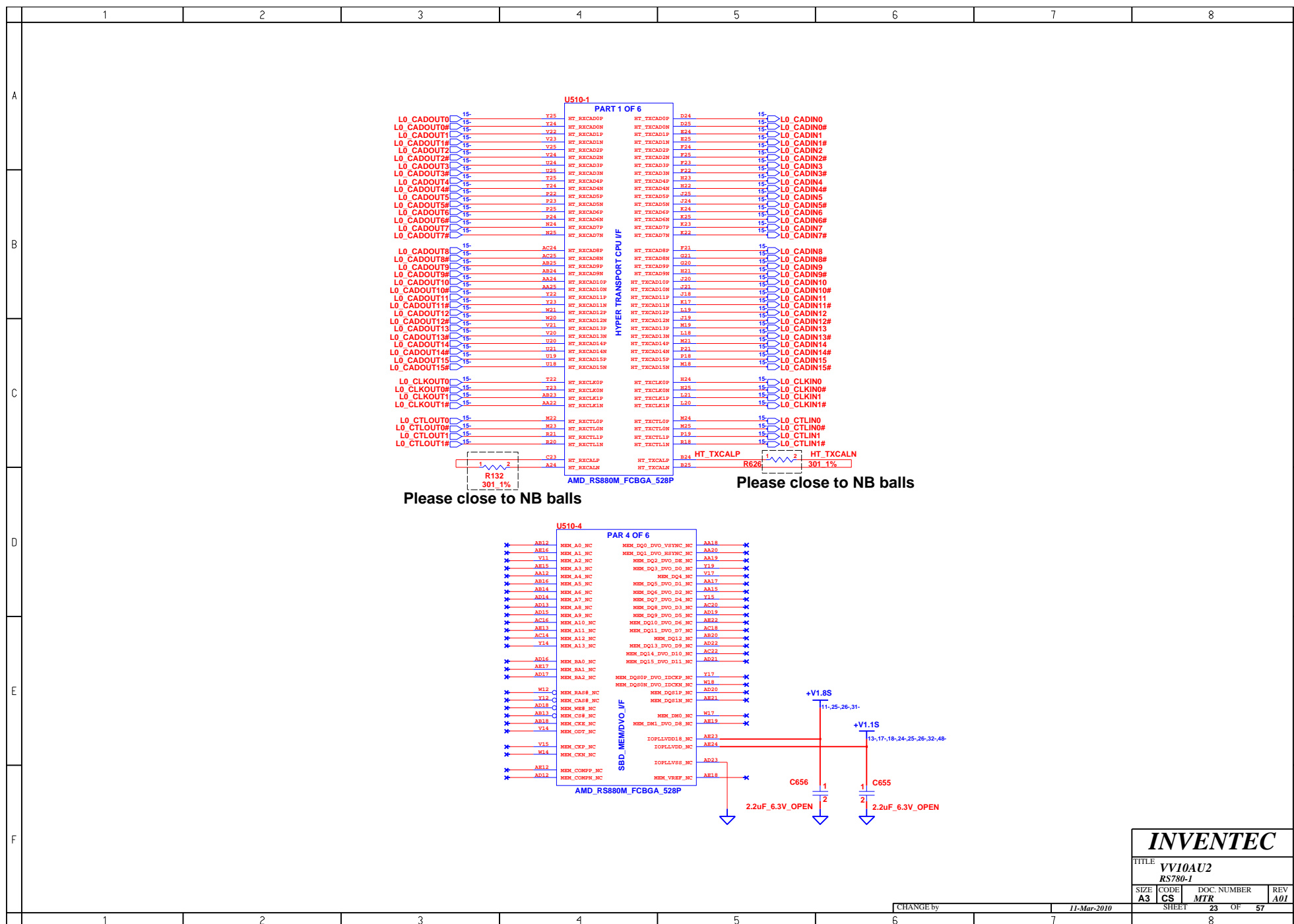
LAYOUT Note: Put the thermal sensor close to CPU.

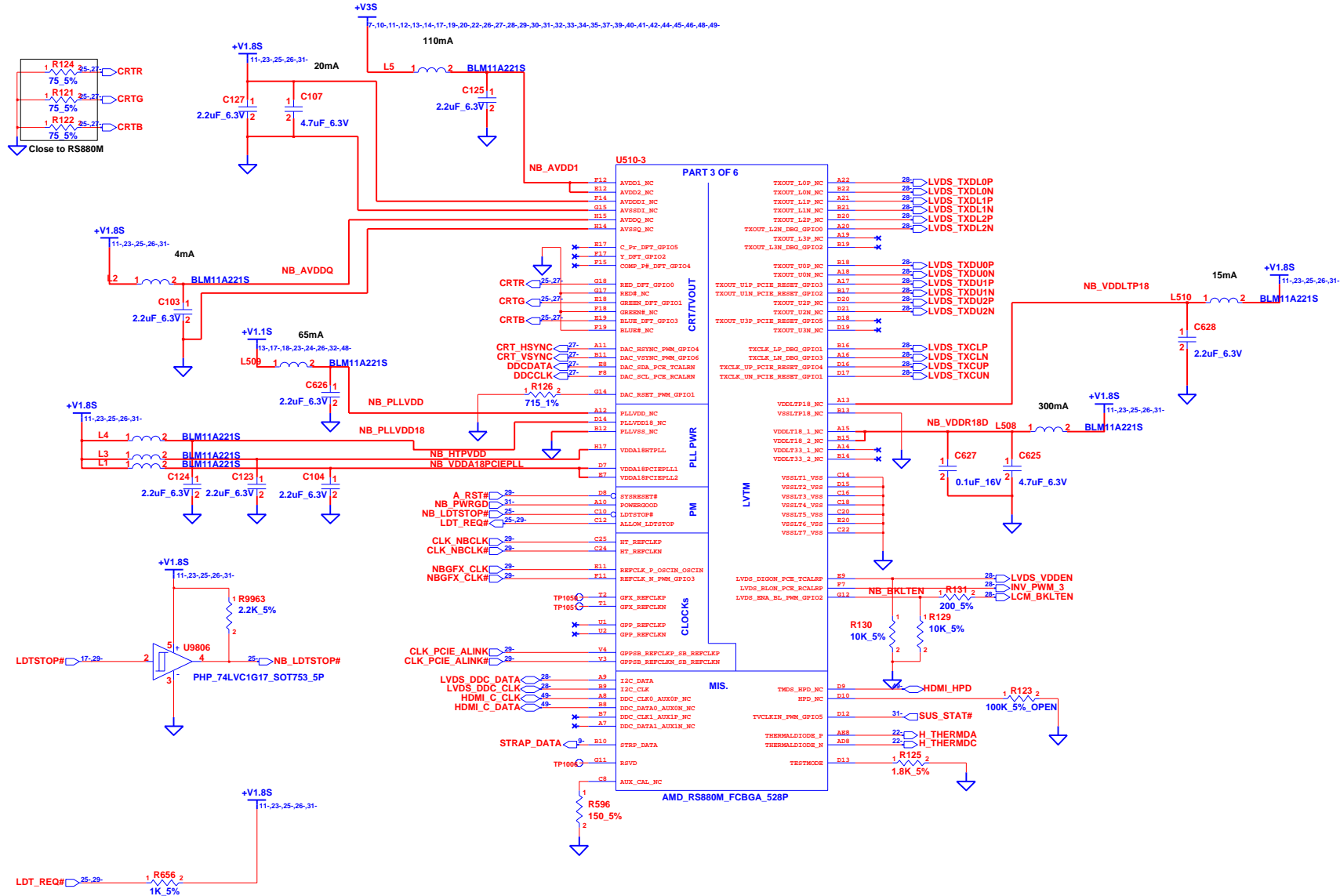
INVENTEC

TITLE			
VV10AU2			
THERMAL & FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 22 OF 57

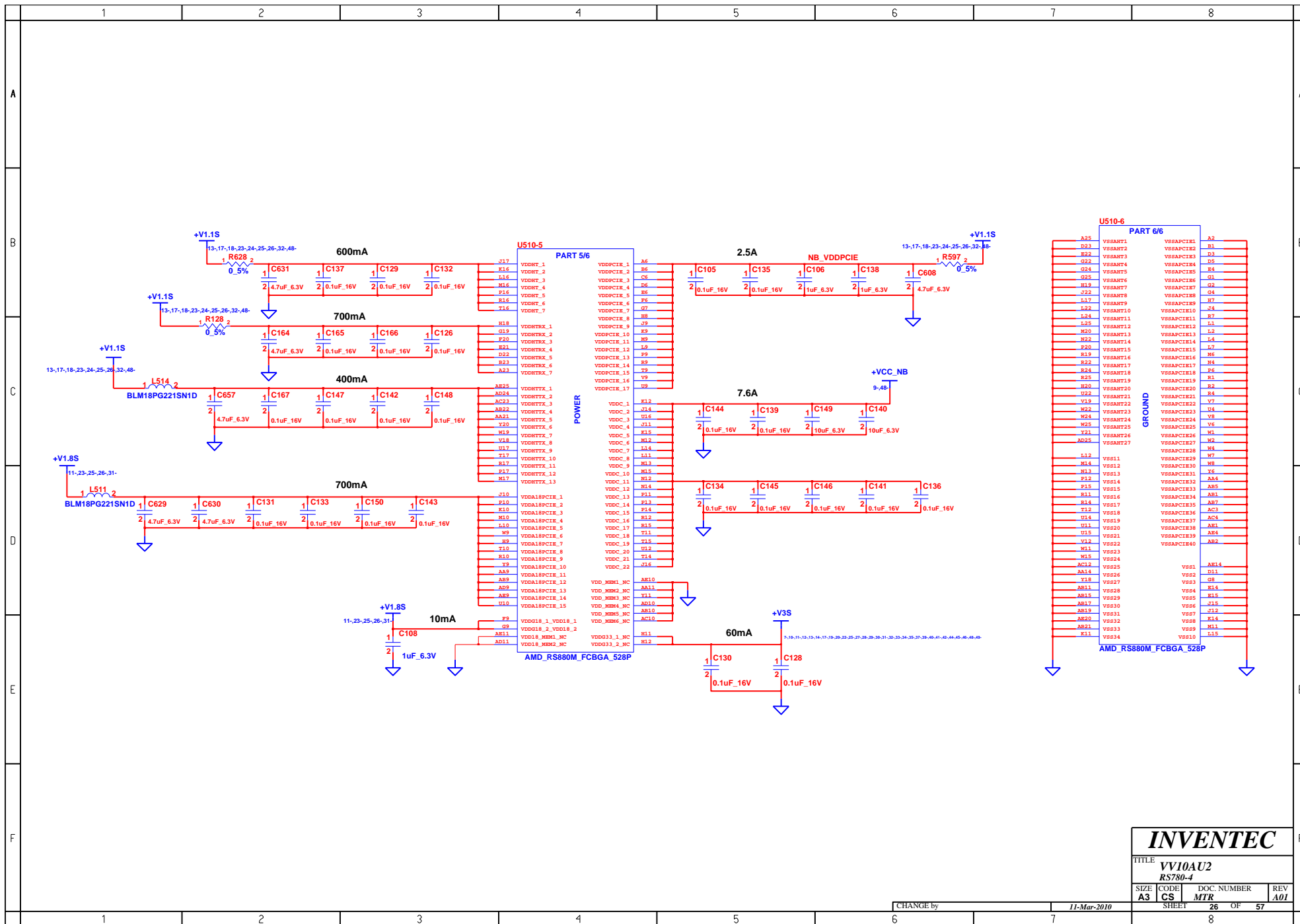


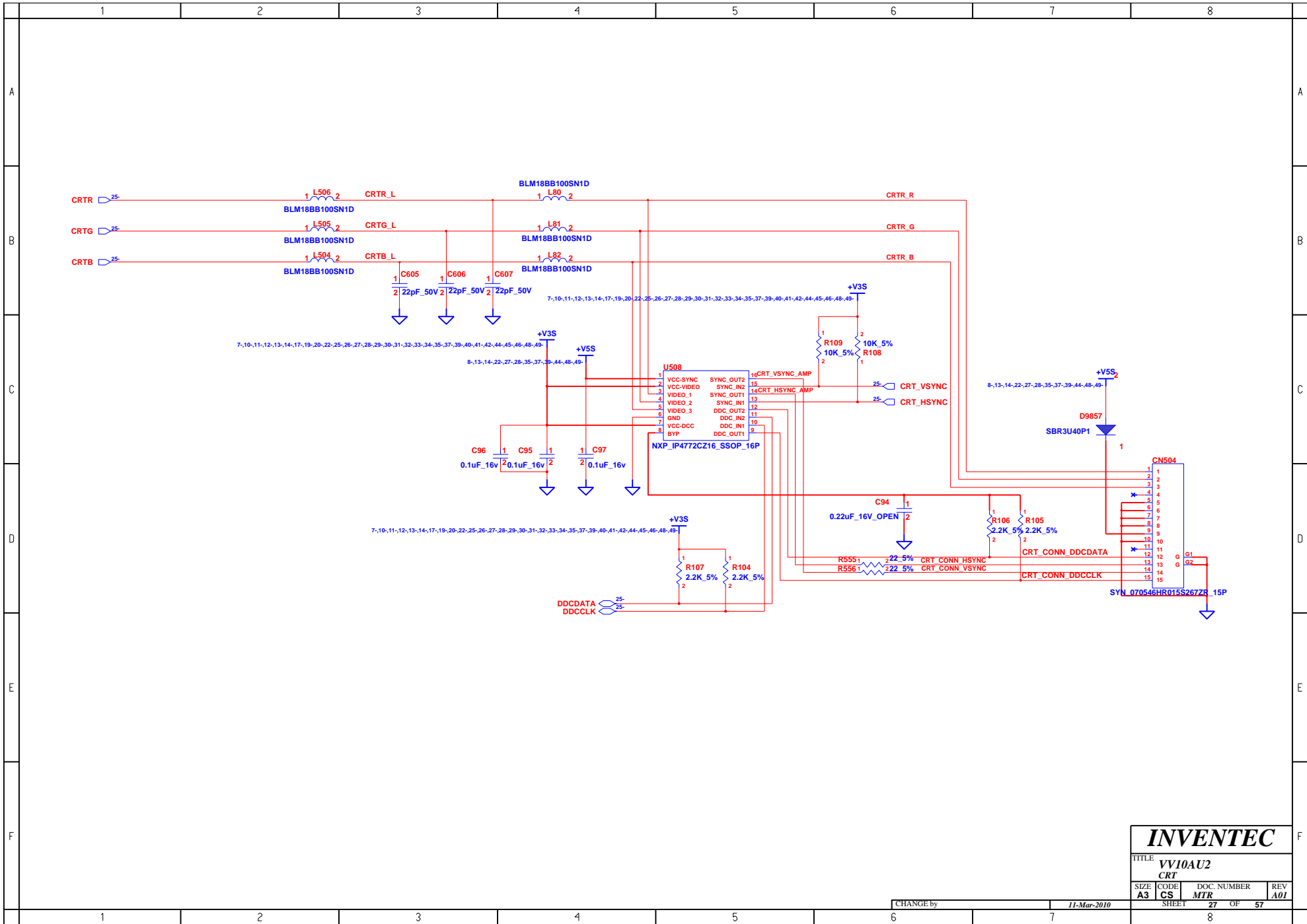


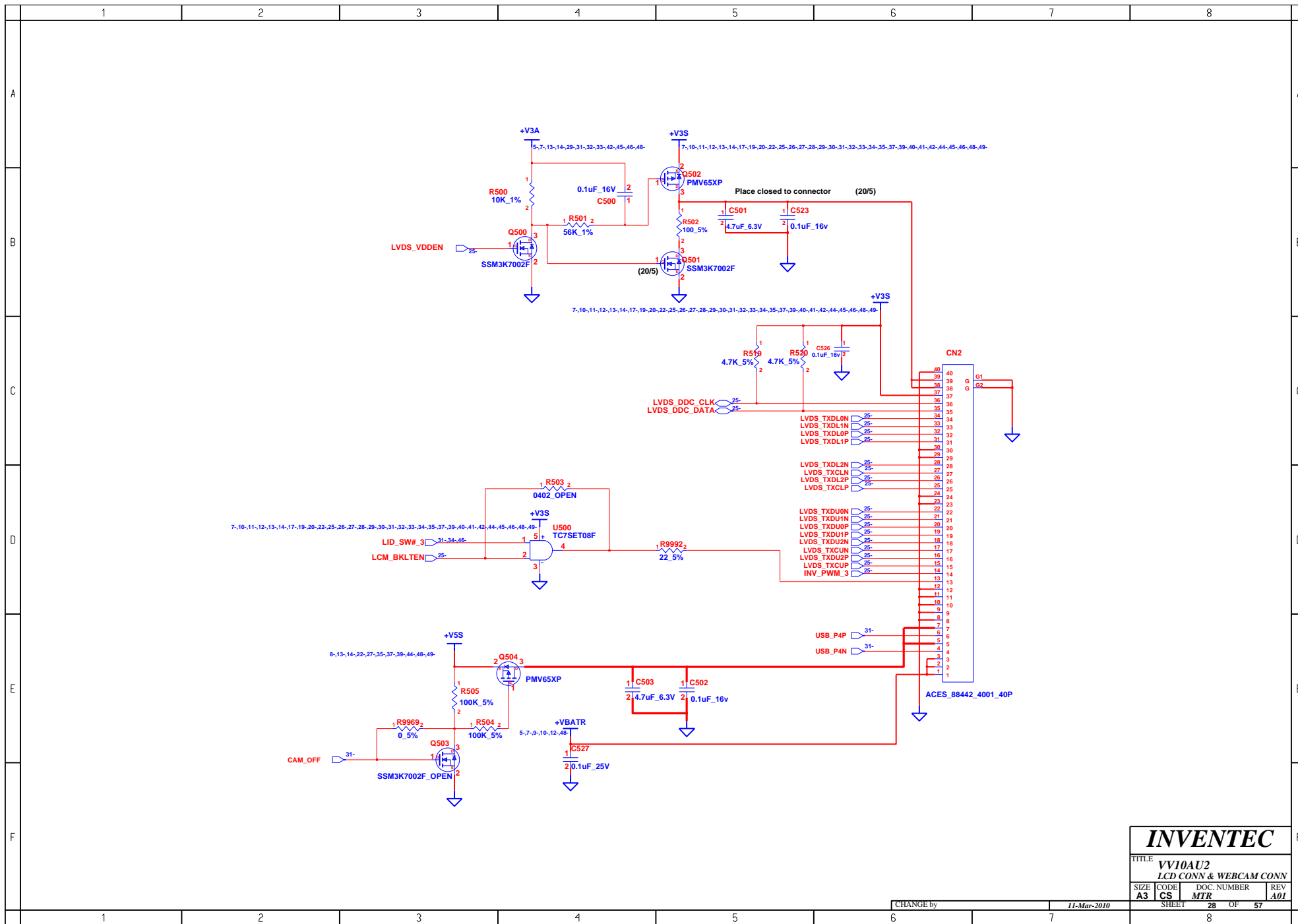
INVENTEC

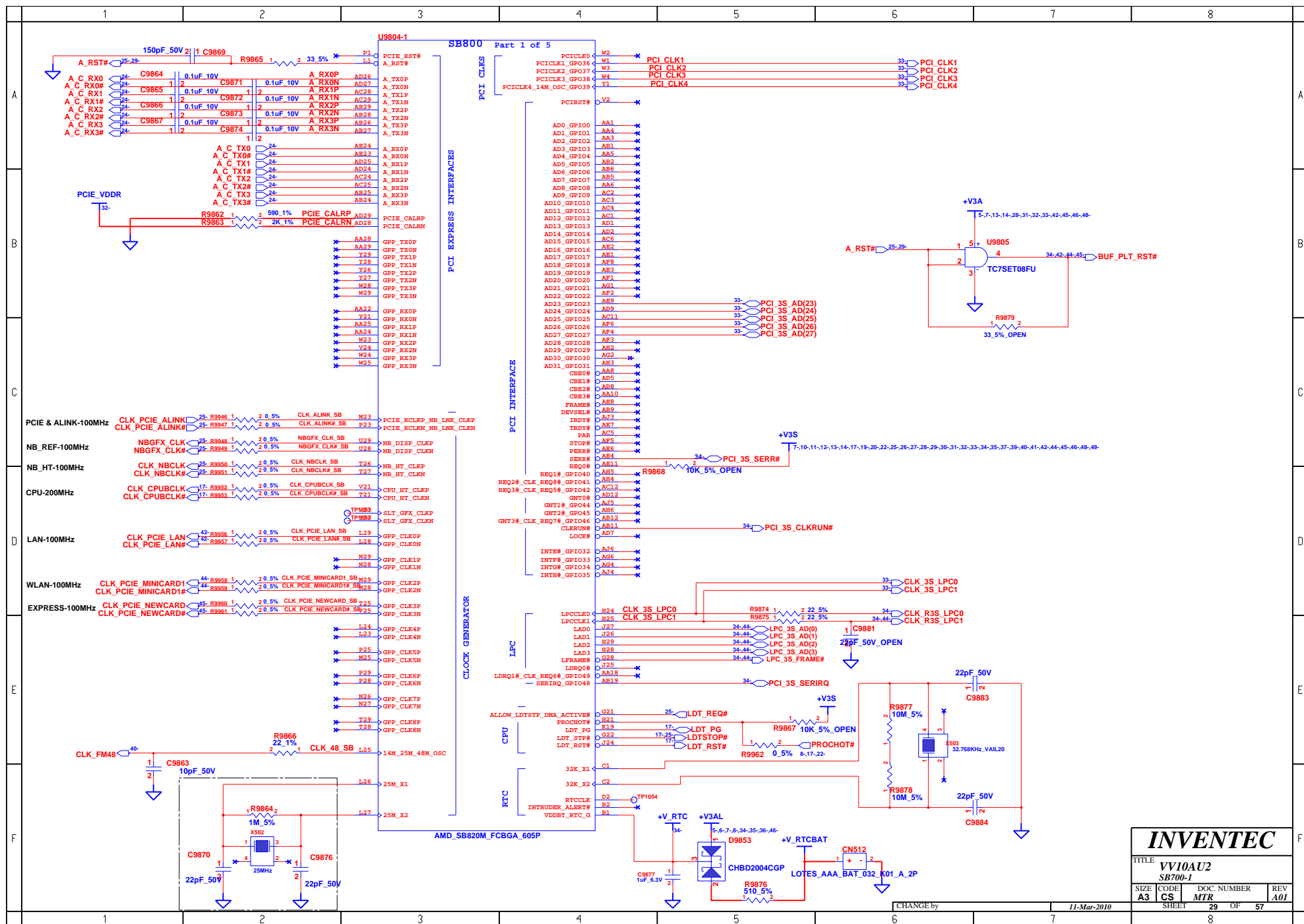
TITLE			
VV10AU2			
RS780-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		25	OF 57

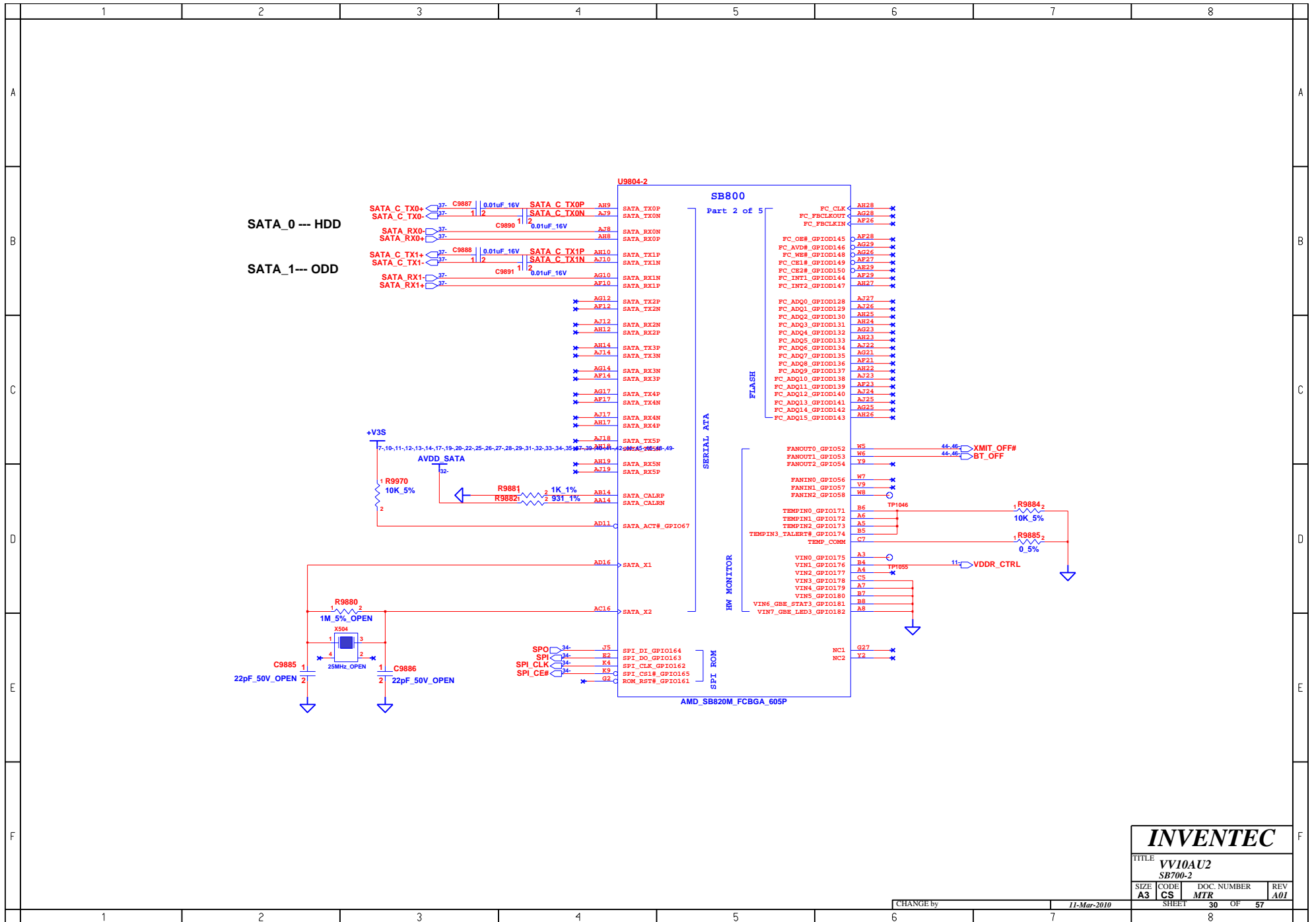
CHANGE by 11-Mar-2010









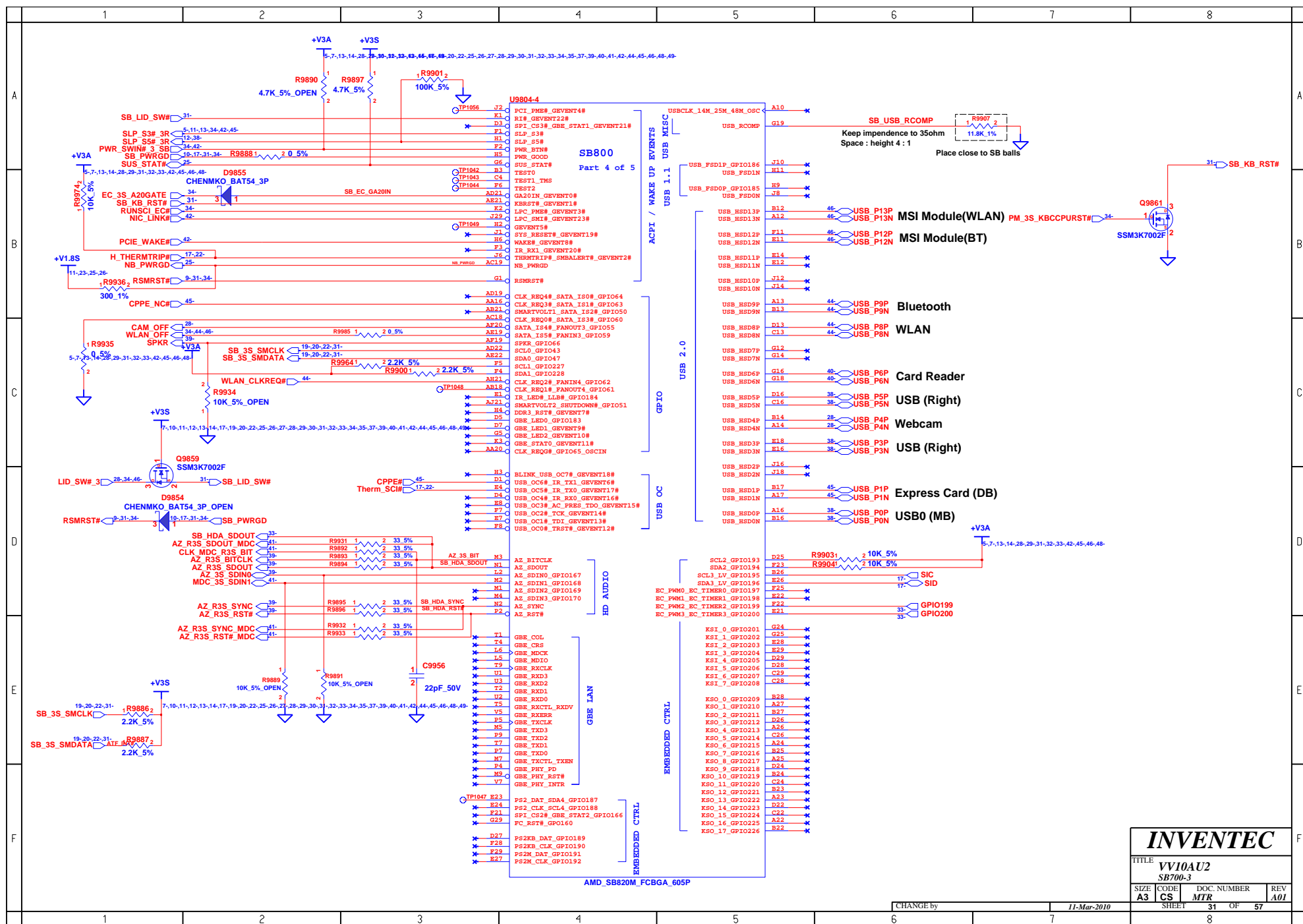


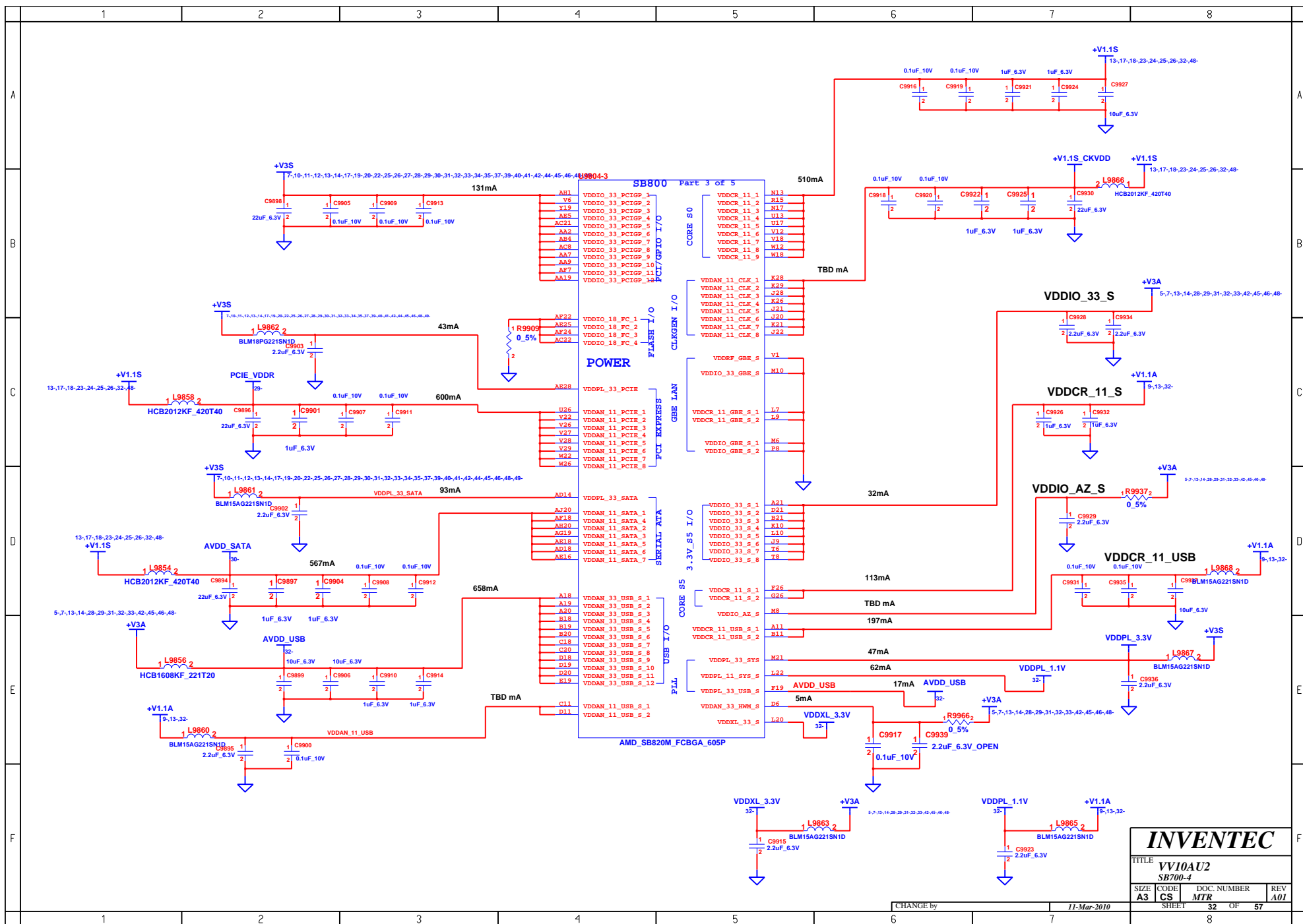
INVENTEC

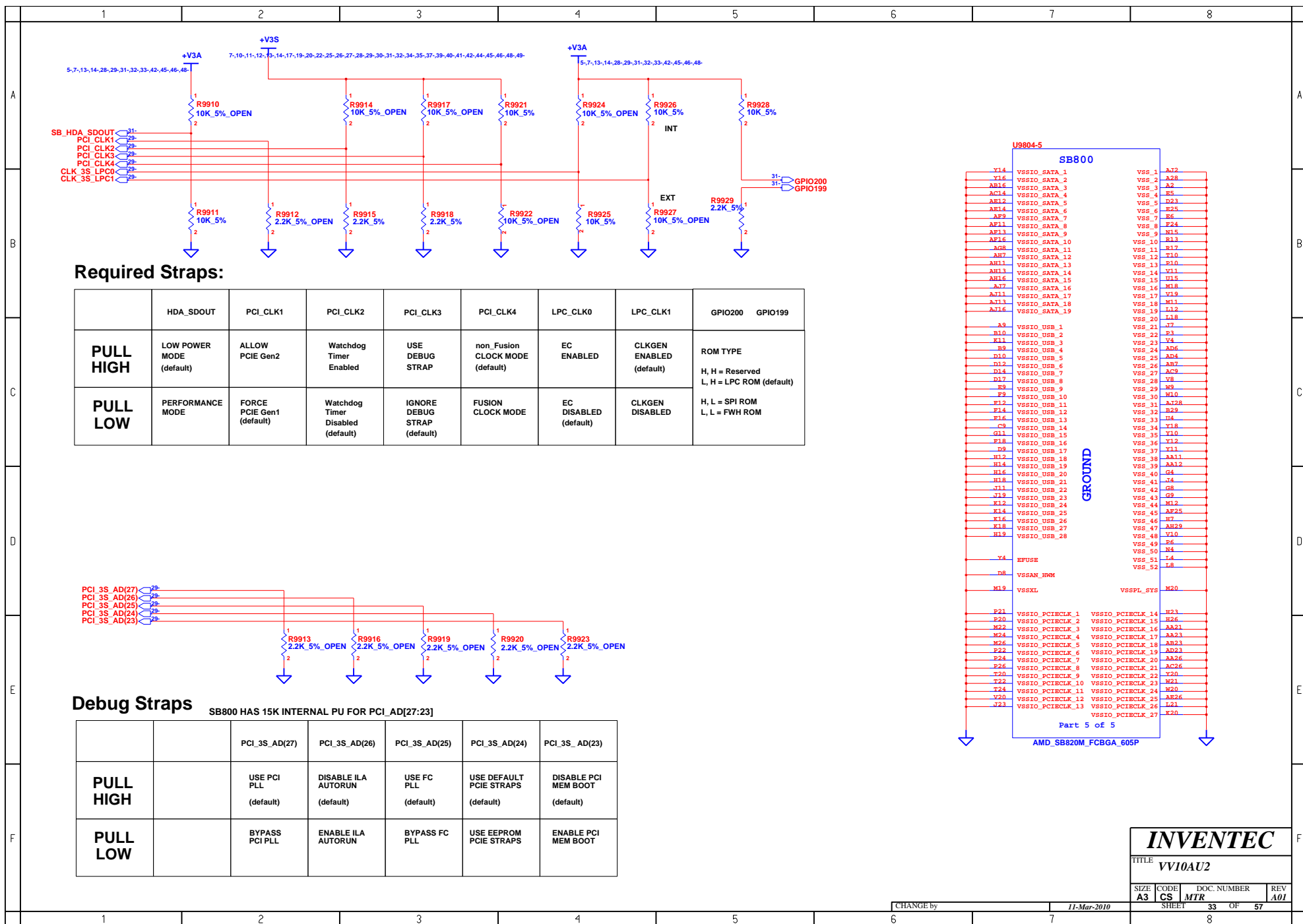
TITLE			
VV10AU2			
SB700-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		OF	57

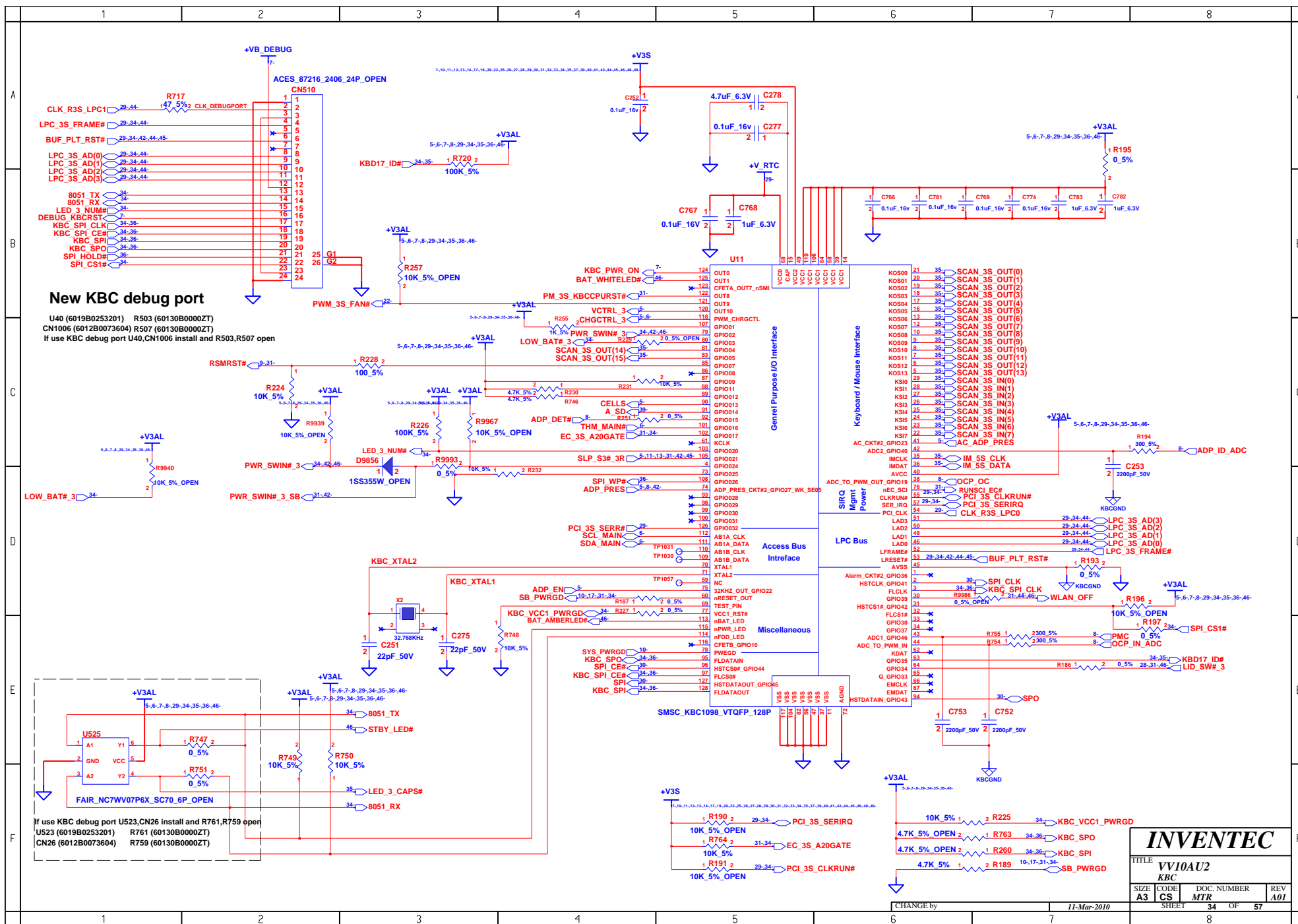
CHANGE by 11-Mar-2010

8









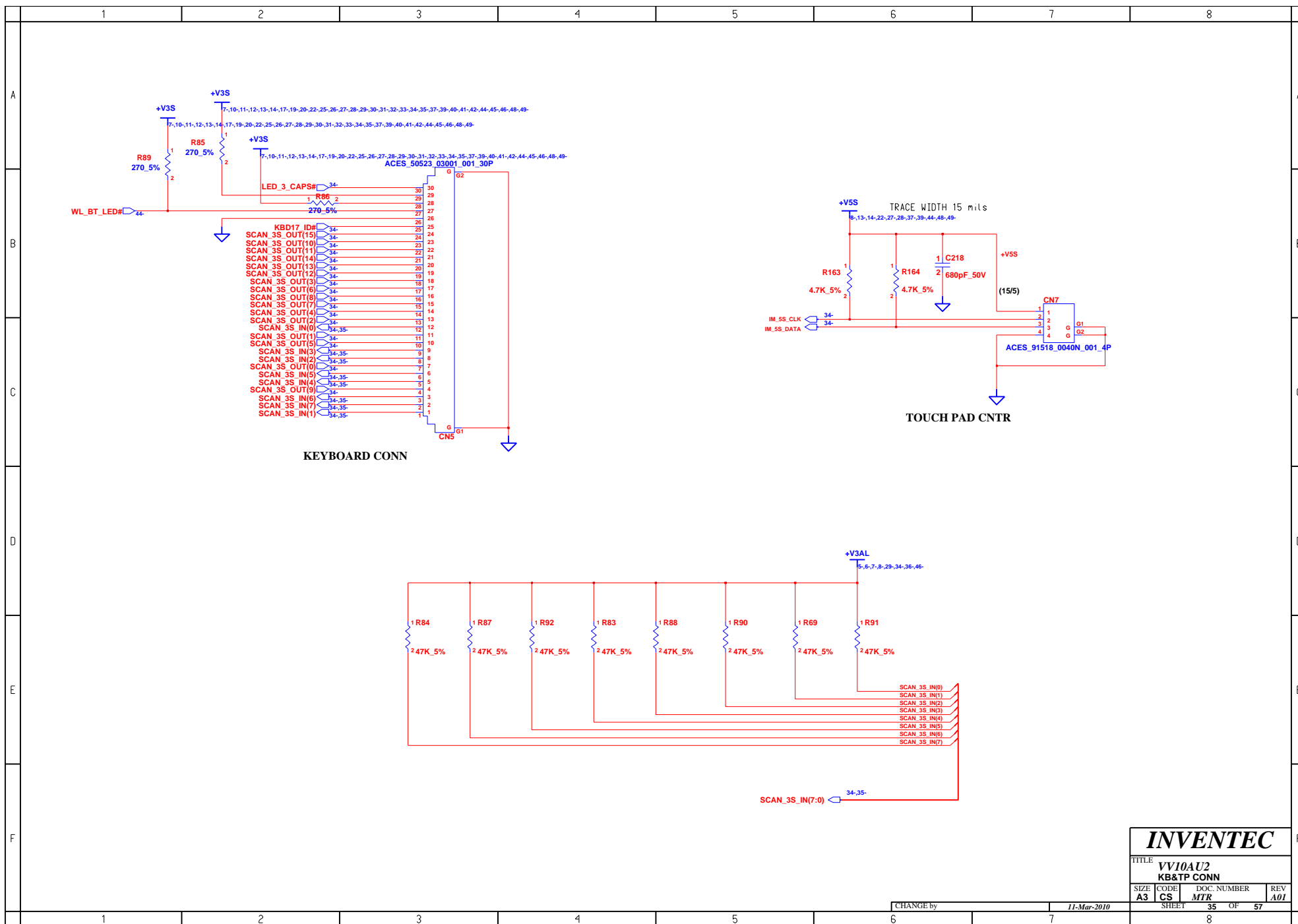
INVENTEC

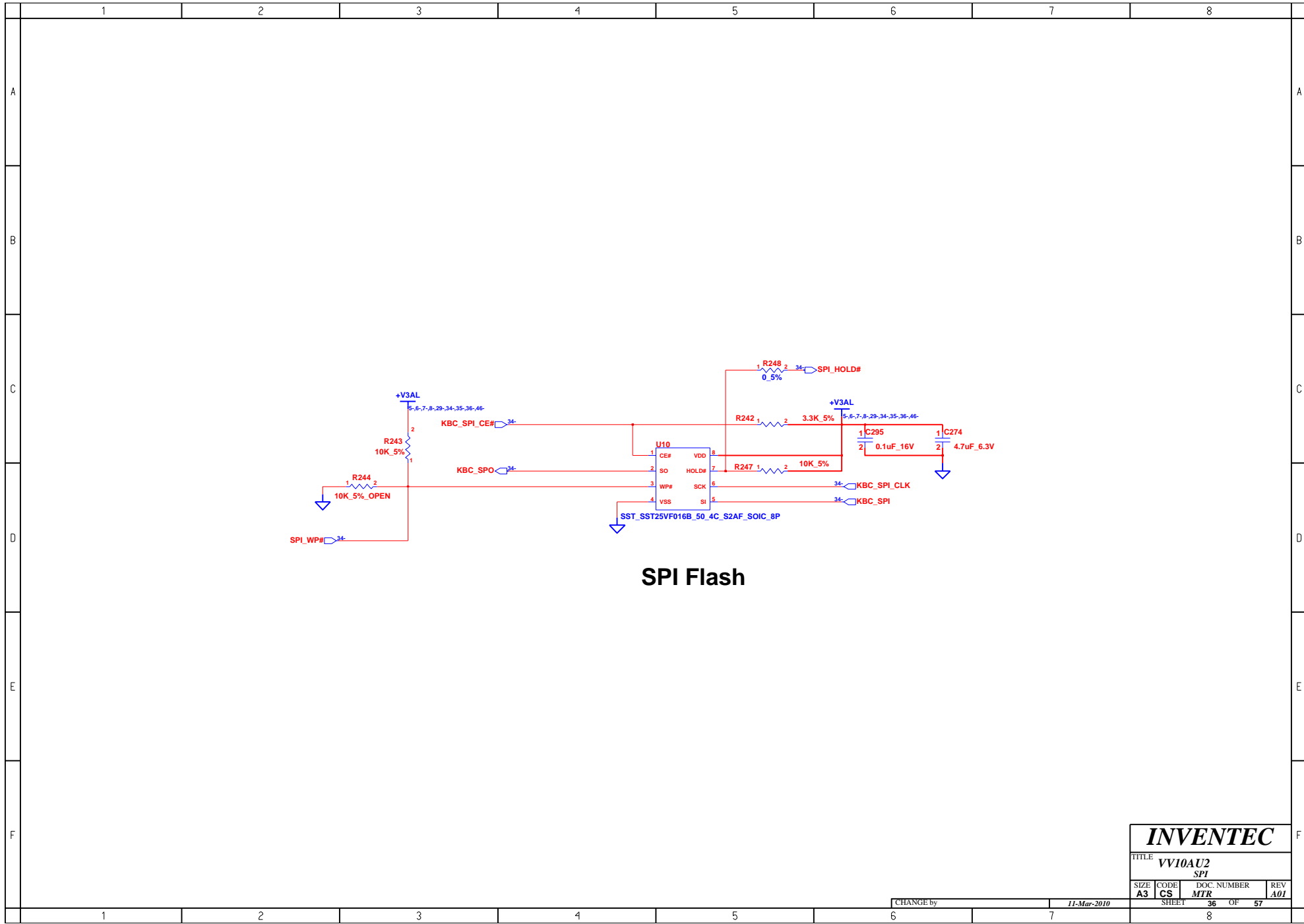
TITLE **VV10AU2**

SIZE **A3** CODE **CS** DOC. NUMBER **MTR** REV **A01**

CHANGE by 11-Mar-2010

SHEET 34 OF 57





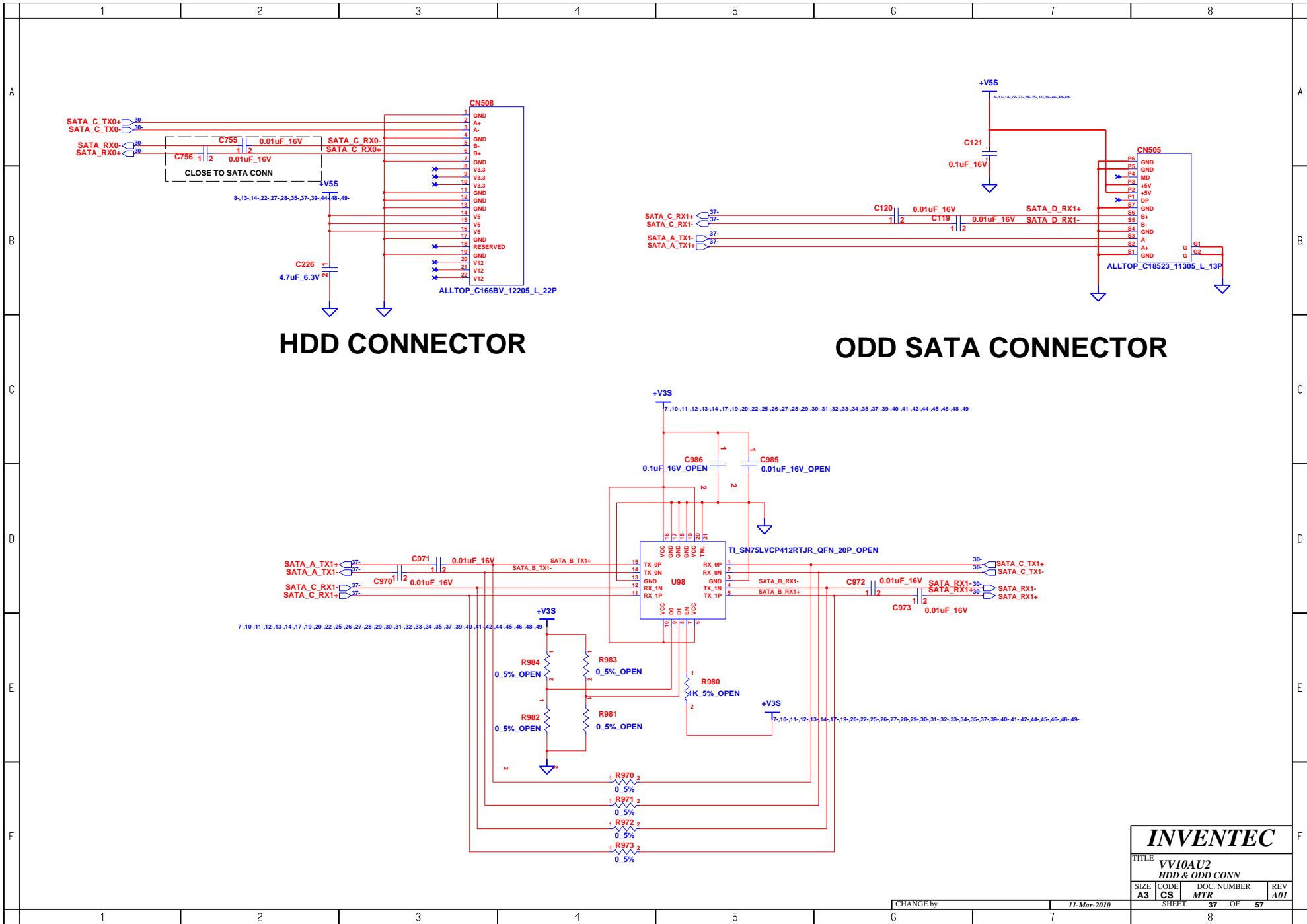
SPI Flash

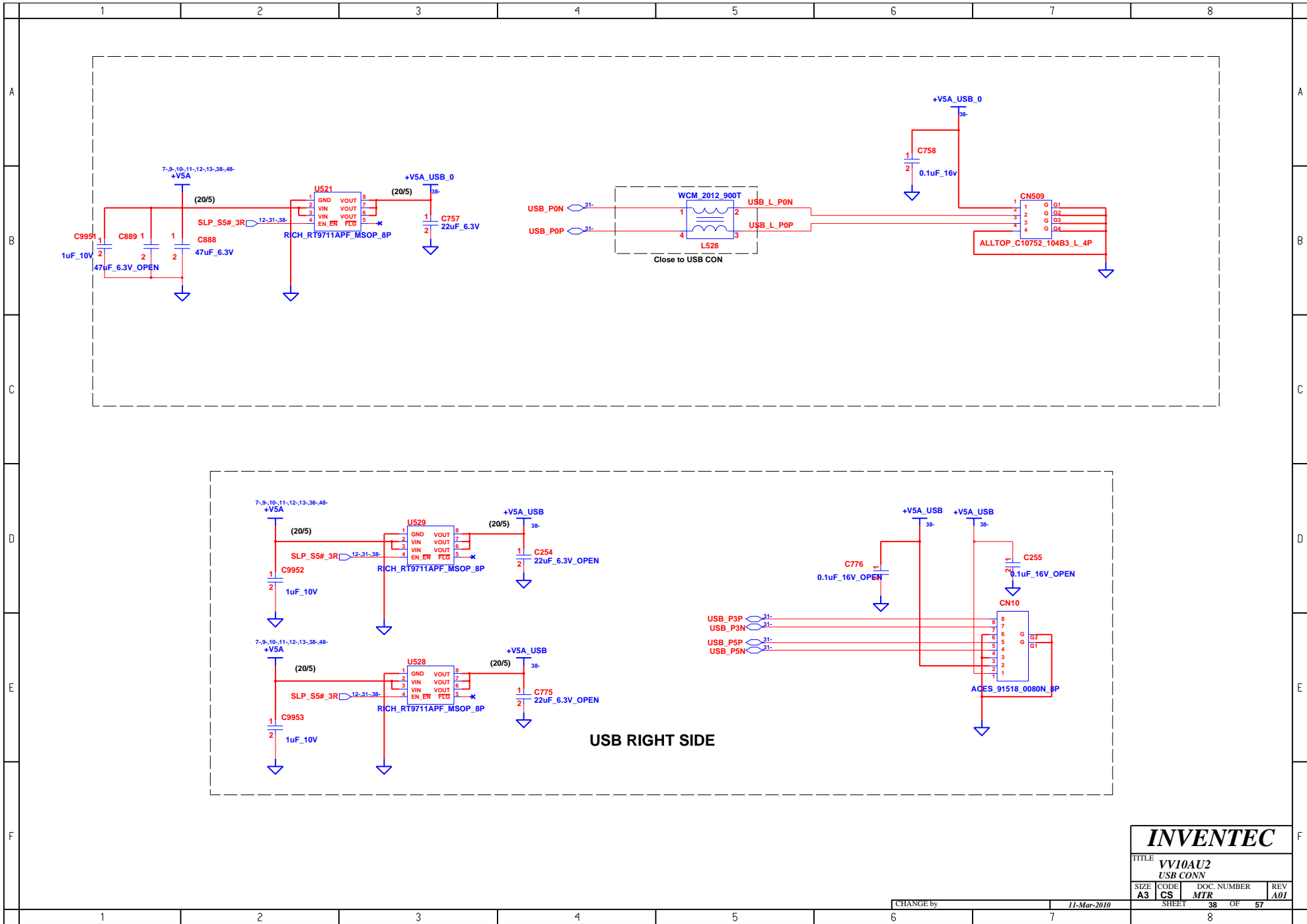
INVENTEC

TITLE			
VV10AU2			
SPI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 36 OF 57





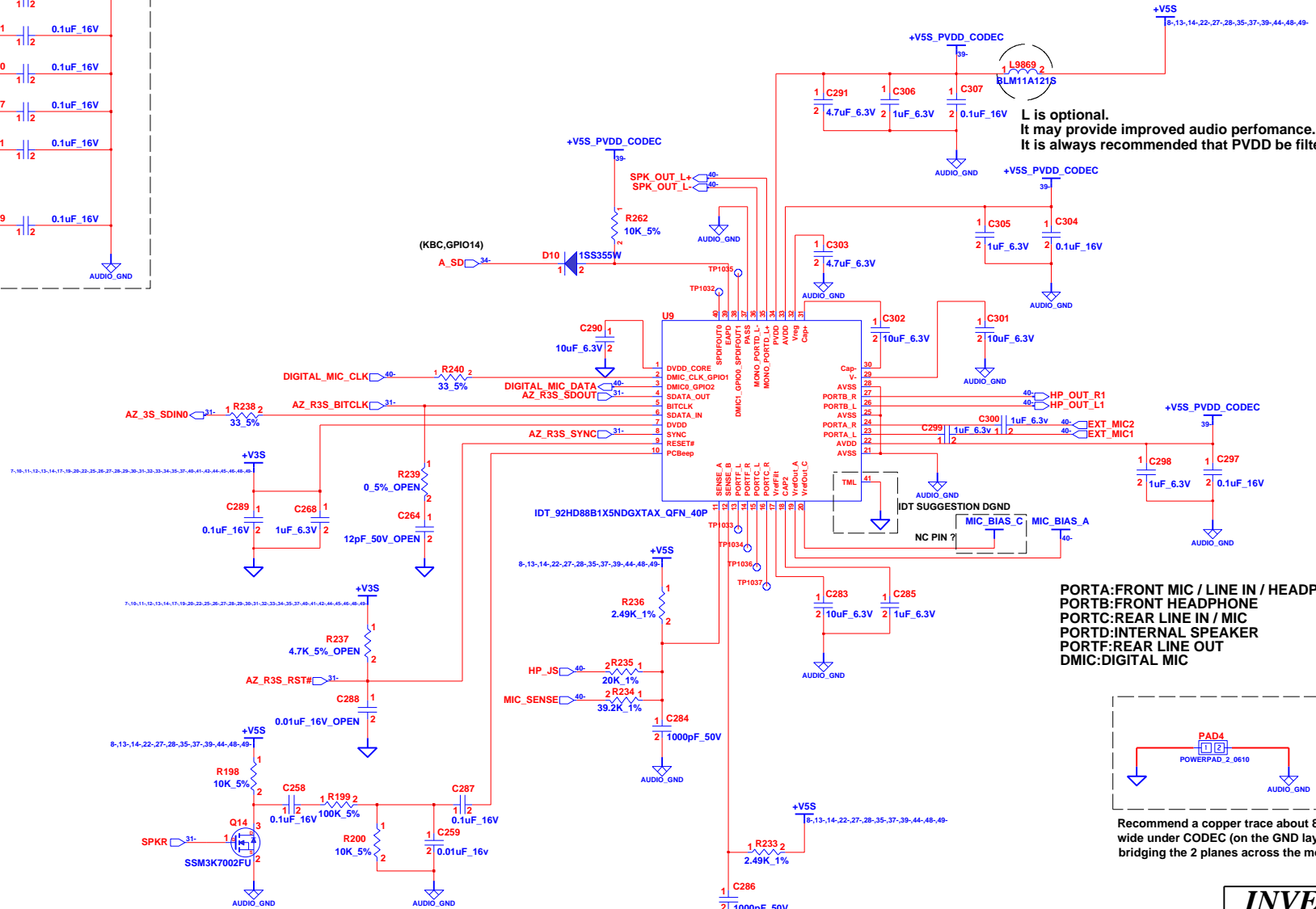
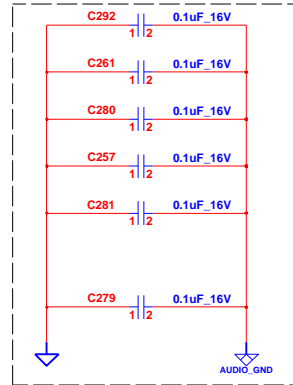
INVENTEC

TITLE			
VV10AU2			
USB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		OF	57

CHANGE by 11-Mar-2010

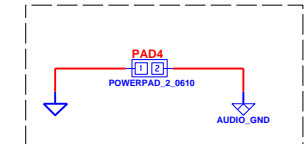
8

For EMI



L is optional.
It may provide improved audio performance.
It is always recommended that PVDD be filtered from 5V.

PORTA:FRONT MIC / LINE IN / HEADPHONE
PORTB:FRONT HEADPHONE
PORTC:REAR LINE IN / MIC
PORTD:INTERNAL SPEAKER
PORTF:REAR LINE OUT
DMIC:DIGITAL MIC



Recommend a copper trace about 80 mills wide under CODEC (on the GND layer) bridging the 2 planes across the moat.

INVENTEC			
TITLE: VV10AU2 AZALIA CODEC			
SIZE: A3	CODE: CS	DOC. NUMBER: MTR	REV: A01
SHEET: 39		OF: 57	

CHANGE by: 11-Mar-2010

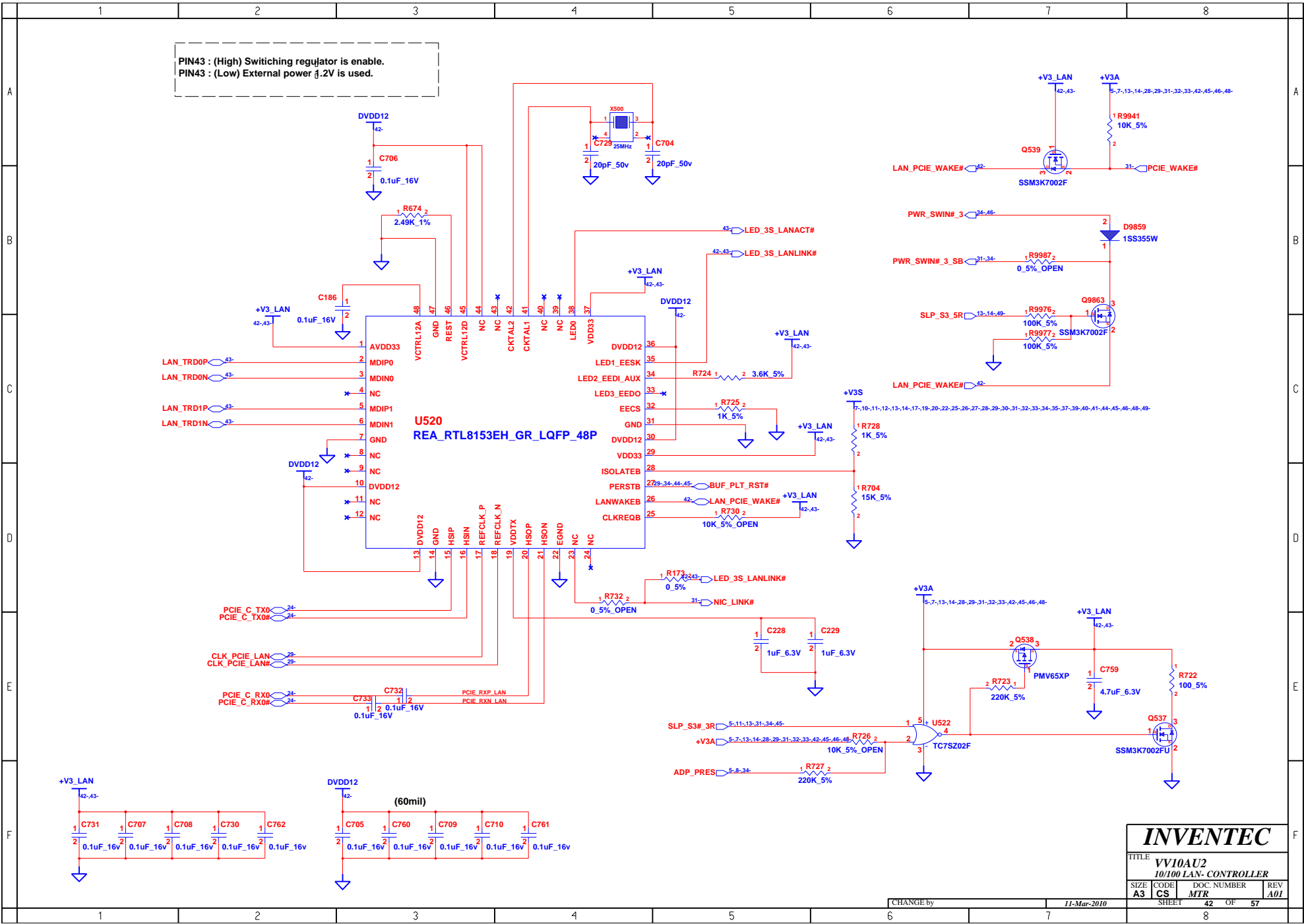




TITLE			
<i>VV10AU2</i> <i>MDC CNTR/E-SATA</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>MTR</i>	<i>A01</i>
SHEET		41	OF 57

CHANGE by	11-Mar-2010
-----------	-------------

PIN43 : (High) Switching regulator is enable.
 PIN43 : (Low) External power 1.2V is used.

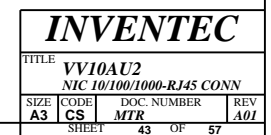


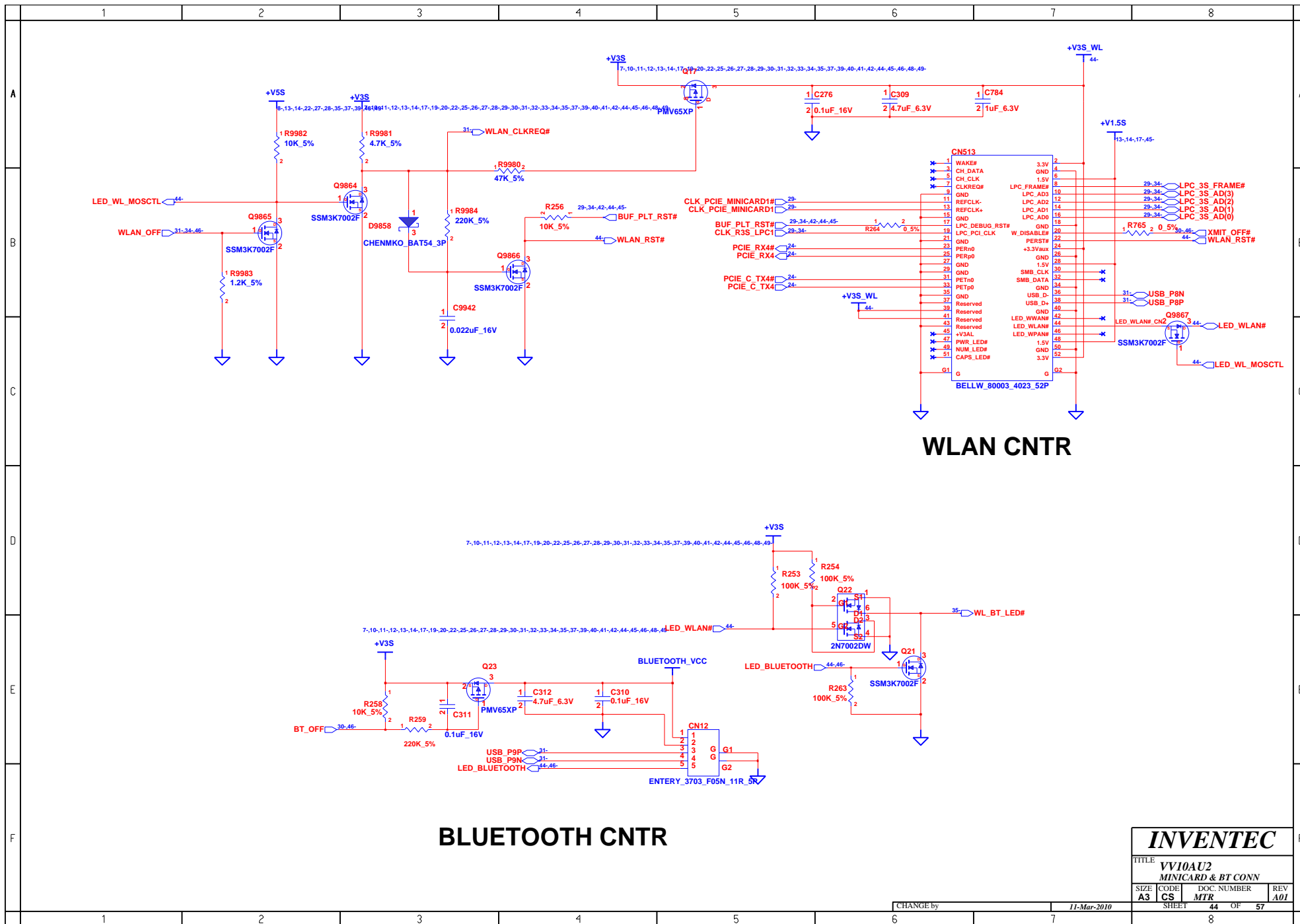
INVENTEC

TITLE			
VV10AU2			
10/100 LAN- CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01

CHANGE by 11-Mar-2010

SHEET 42 OF 57



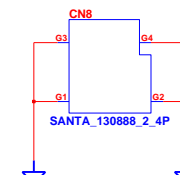


INVENTEC

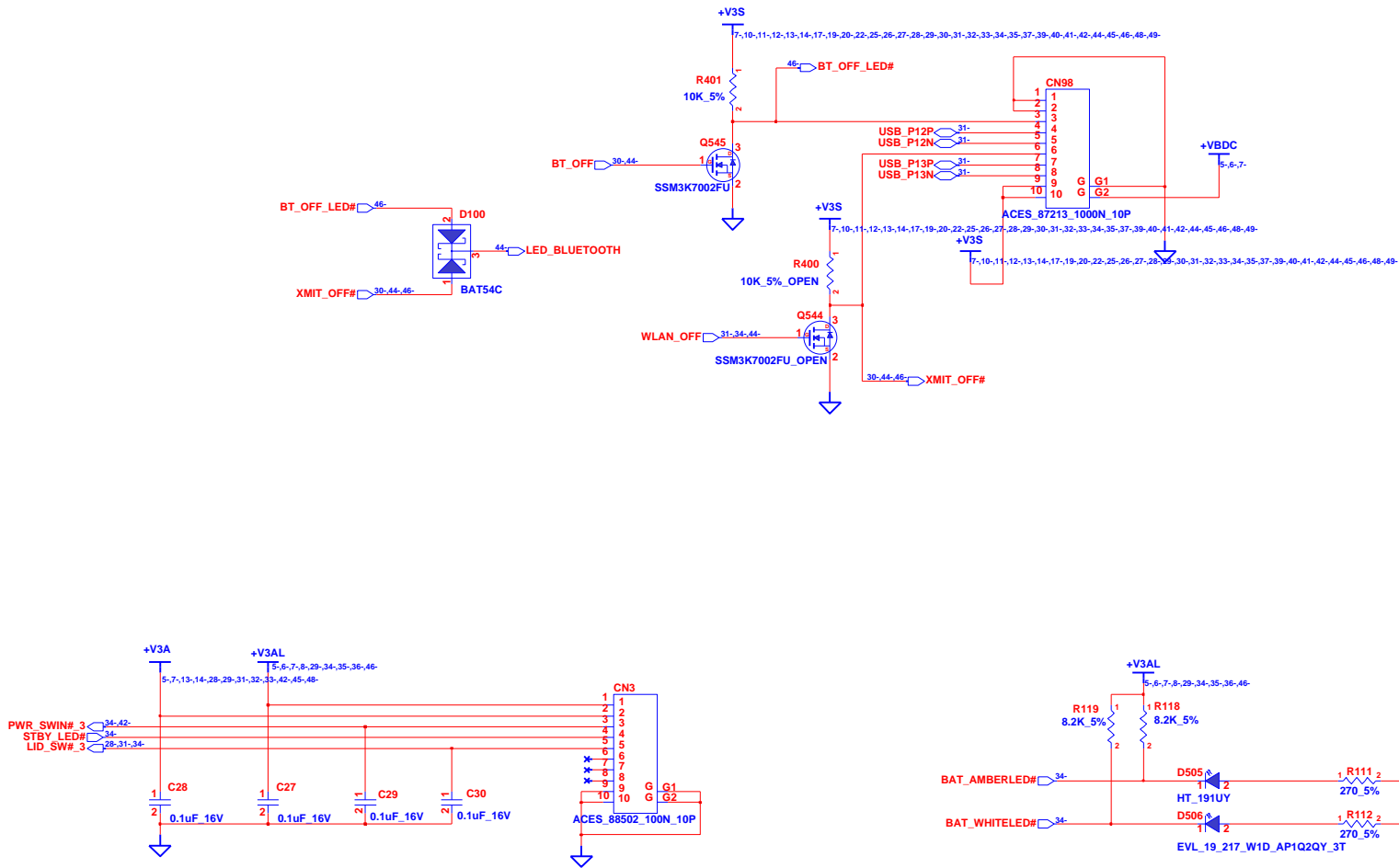
TITLE VV10AU2 MINICARD & BT CONN			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01

CHANGE by 11-Mar-2010

SHEET 44 OF 57



CHANGE by		11-Mar-2010
6		7

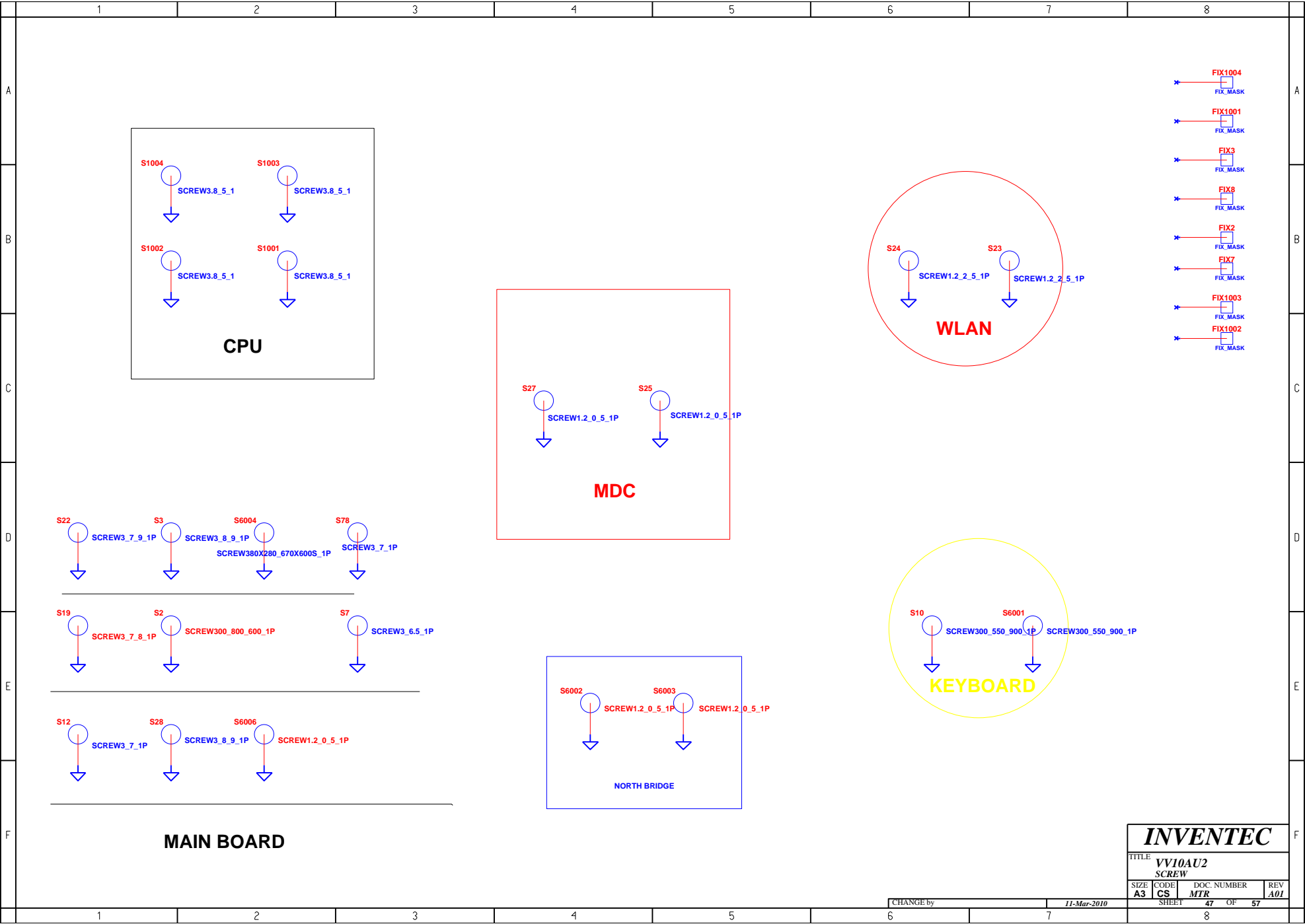


Switch Board & LED Board CONN

Battery charger LED

INVENTEC			
TITLE			
VV10AU2			
W/B & SW/B & LED/B CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		46	OF 57

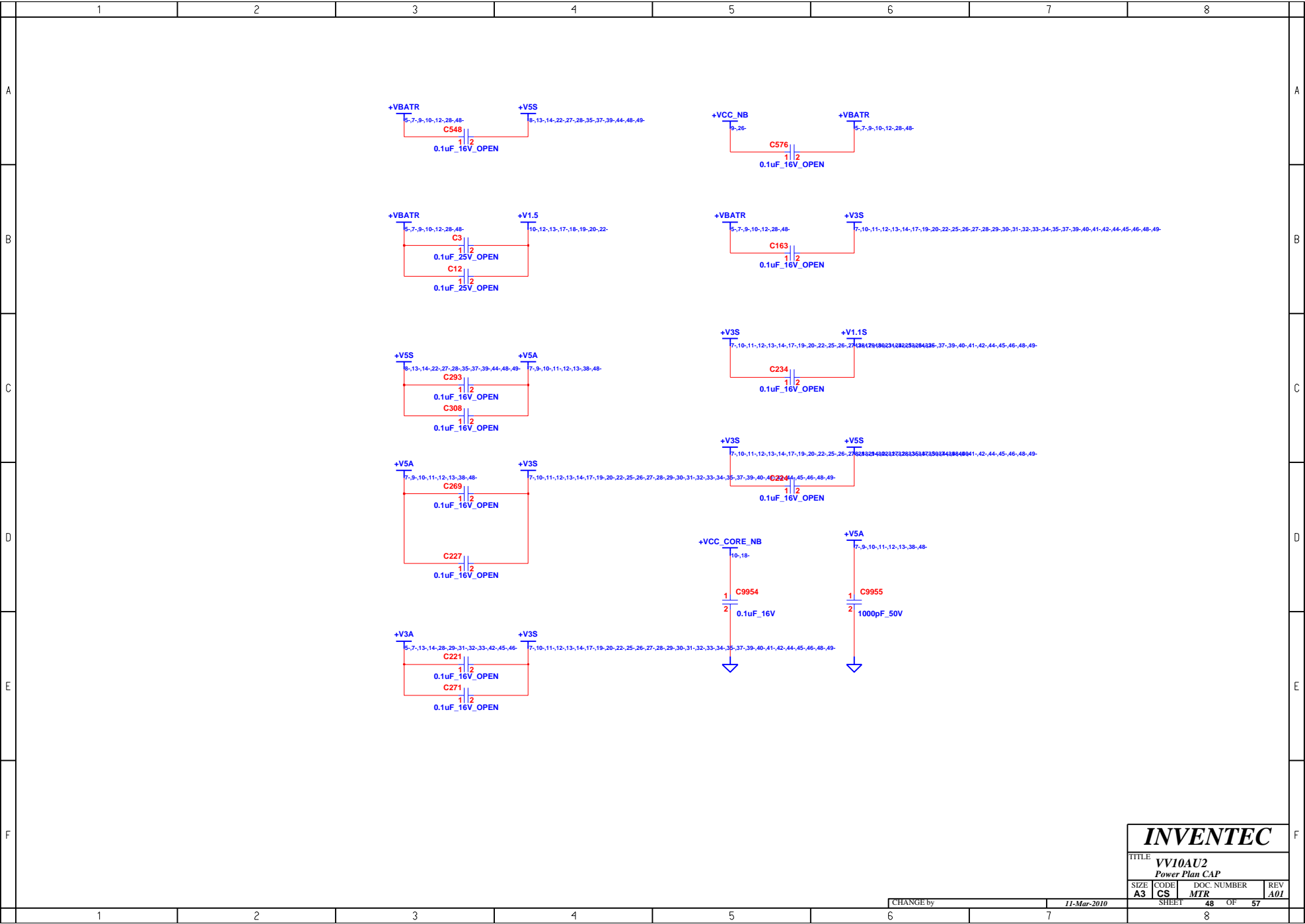
CHANGE by 11-Mar-2010



INVENTEC

TITLE			
VV10AU2			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		47	OF 57

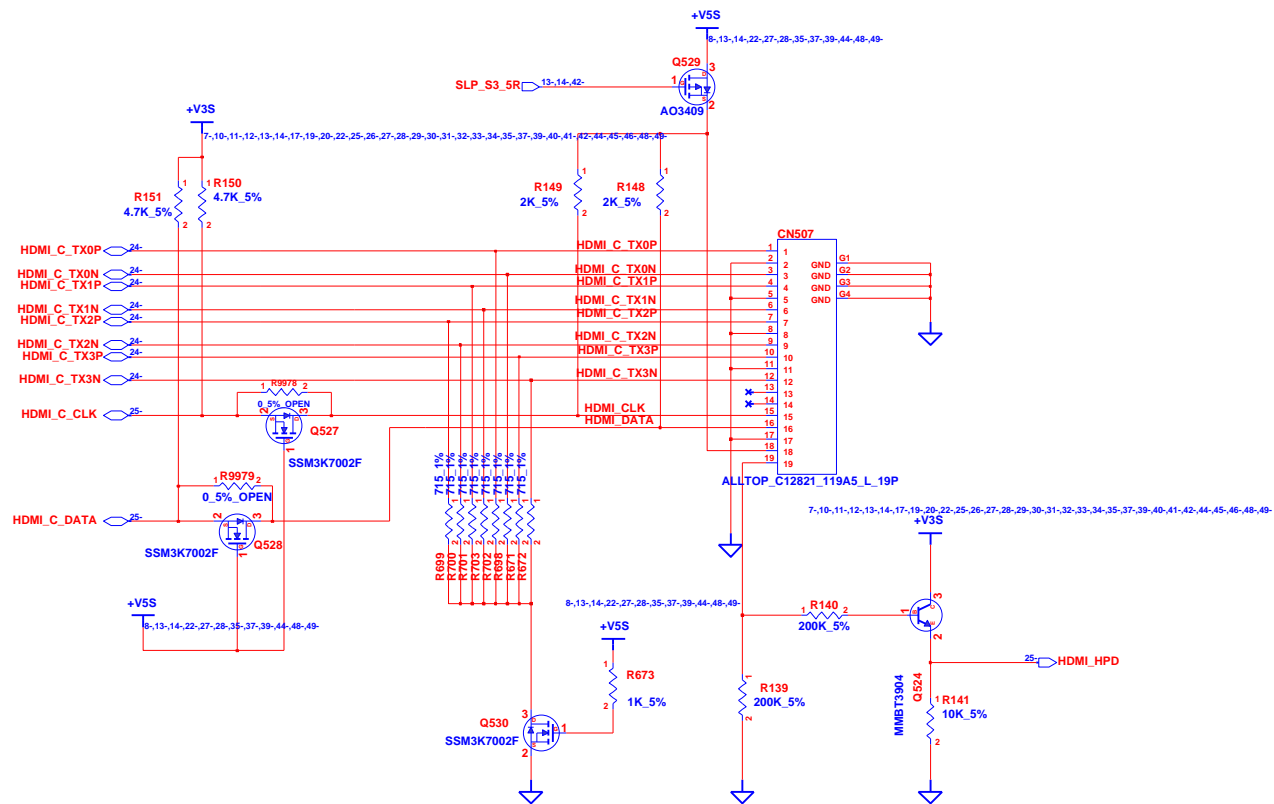
CHANGE by 11-Mar-2010



INVENTEC

TITLE			
VV10AU2			
Power Plan CAP			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		48	OF 57

CHANGE by 11-Mar-2010



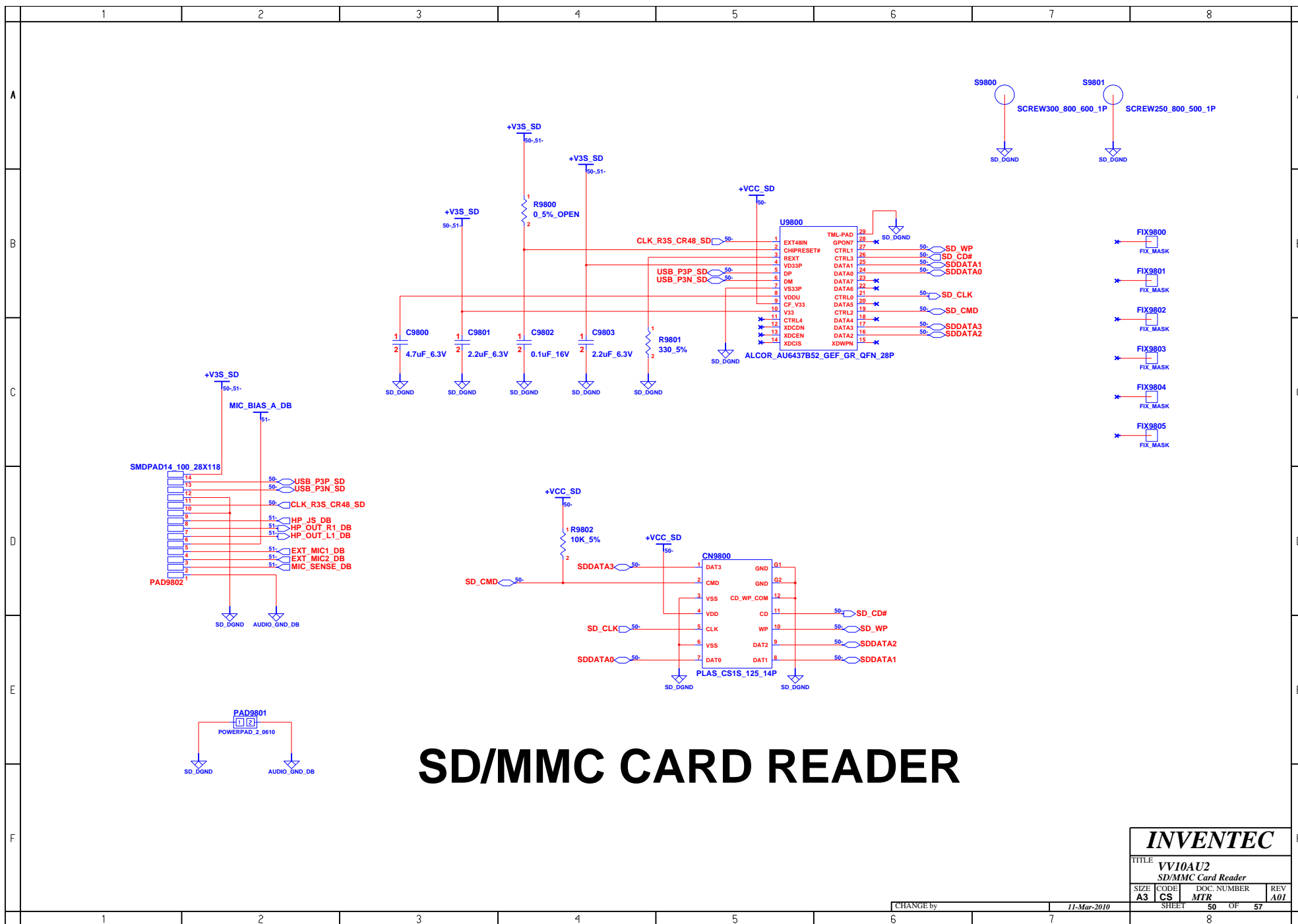
HDMI CONN

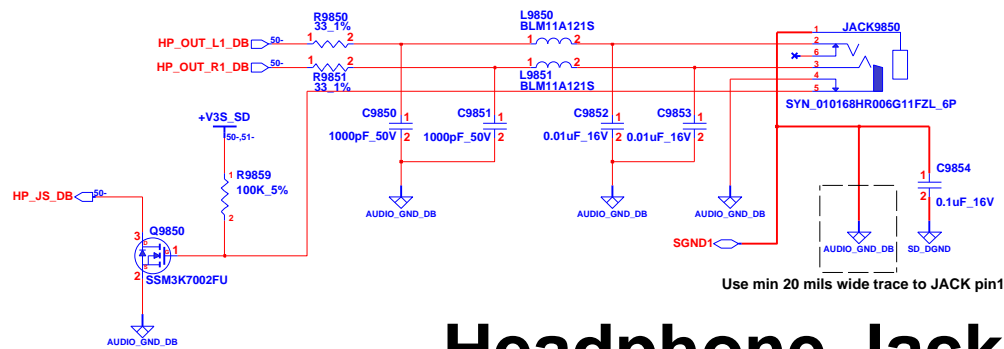
INVENTEC

TITLE			
VV10AU2			
HDMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
SHEET		49	OF 57

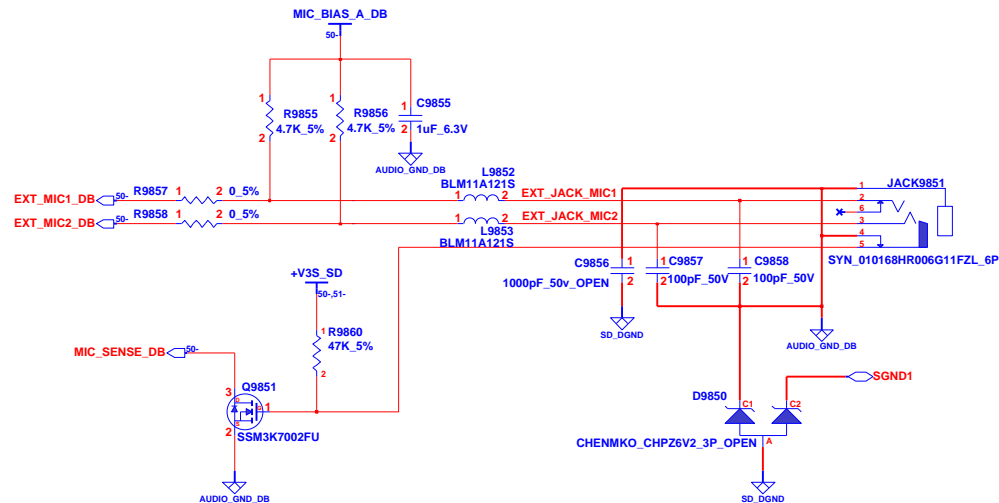
CHANGE by 11-Mar-2010

8



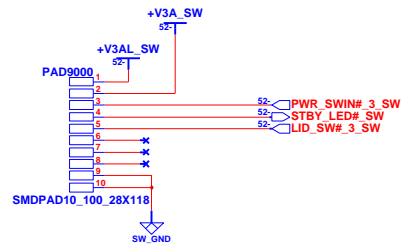


Headphone Jack

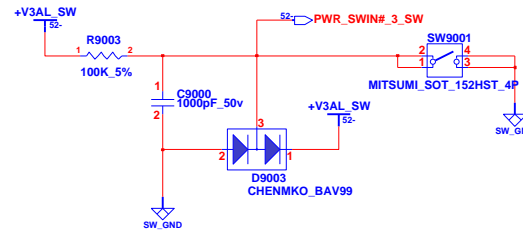


MIC Jack

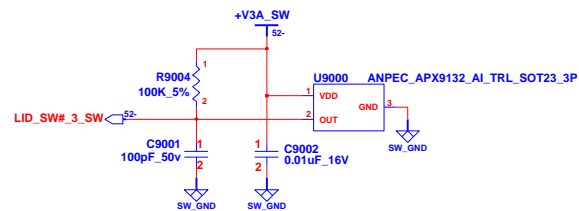
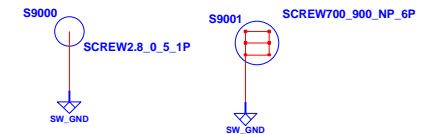
INVENTEC			
TITLE			
VV10AU2			
Headphone & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	MTR	A01
CHANGE by		11-Mar-2010	
SHEET		51	OF 57
		8	



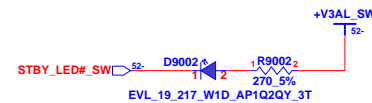
PWR SW B/B CONN



Power Button



LID Switch

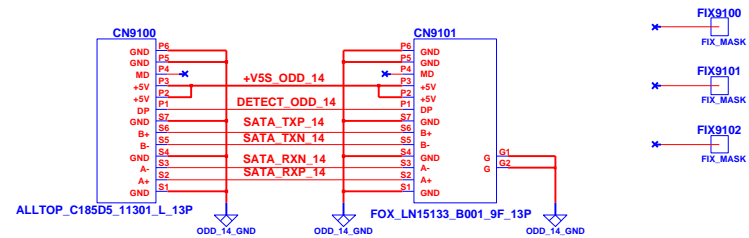


Power / Standby LED

Power Button & LID Switch Board

INVENTEC			
TITLE VV10AU2			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
SHEET 52		OF 57	

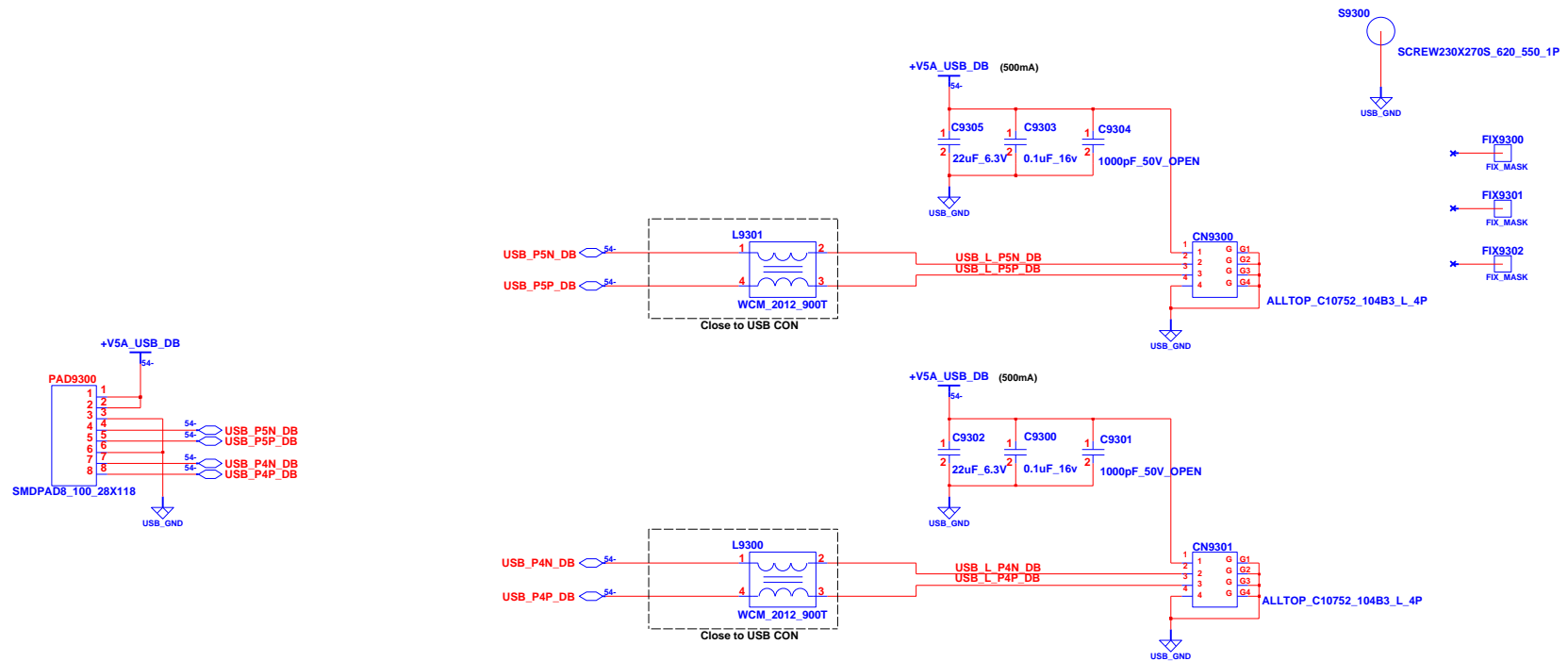
CHANGE by 11-Mar-2010



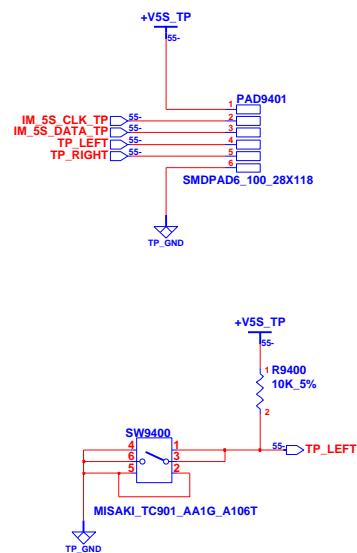
14''ODD Extend Board

INVENTEC			
TITLE VV10AU2			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
CHANGE by		11-Mar-2010	
SHEET		53	OF 57
		8	

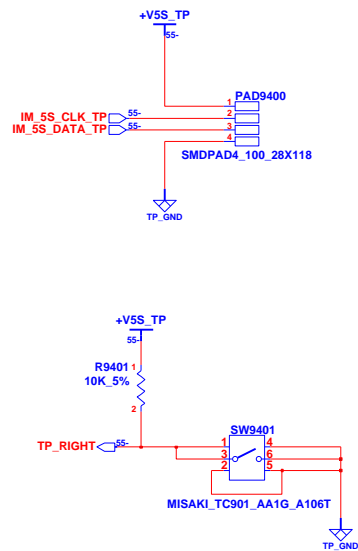
USB Right Side Board



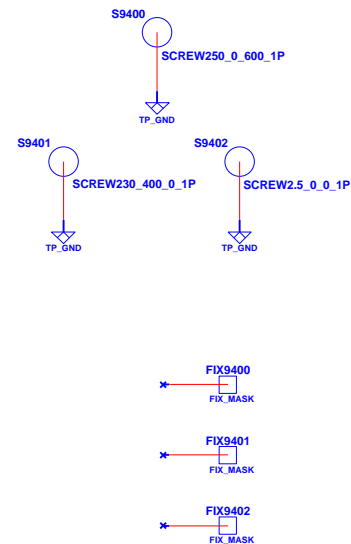
INVENTEC			
TITLE VV10AU2			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
CHANGE by		11-Mar-2010	
SHEET		54 OF 57	
		8	



LEFT BUTTON



RIGHT BUTTON



PICK Button Board

INVENTEC			
TITLE VV10AU2			
SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
CHANGE by		11-Mar-2010	
SHEET		55	OF 57
		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	

BLANK

15''ODD Extend Board

CHANGE by

11-Mar-2010

TITLE	
VV10AU2	
SIZE	CODE
A3	CS
DOC. NUMBER	
MTR	
SHEET	56 OF 57
REV	
A01	

	1	2	3	4	5	6	7	8	
A	<div>BLANK</div> <div>15'' SATA HDD Extend Board</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC

TITLE **VV10AU2**

SIZE A3	CODE CS	DOC. NUMBER MTR	REV A01
SHEET		57	OF 57

CHANGE by 11-Mar-2010