

S-SERIES 2009

INVICTA (Intel-Discrete)

MV Build (A03) - Final

2009.03.18

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC TITLE <i>INVICTA Cycle1</i>
DESIGN					
CHECK					
RESPONSIBLE					
SIZE =	3	VER :			SIZE
FILE NAME :	XXXX-XXXXXX-XX				A3 CS
P/N	XXXXXXXXXXXX				DOC. NUMBER
					1310A22527-0-MTR
					REV
					A03
					SHEET
					1 OF 54

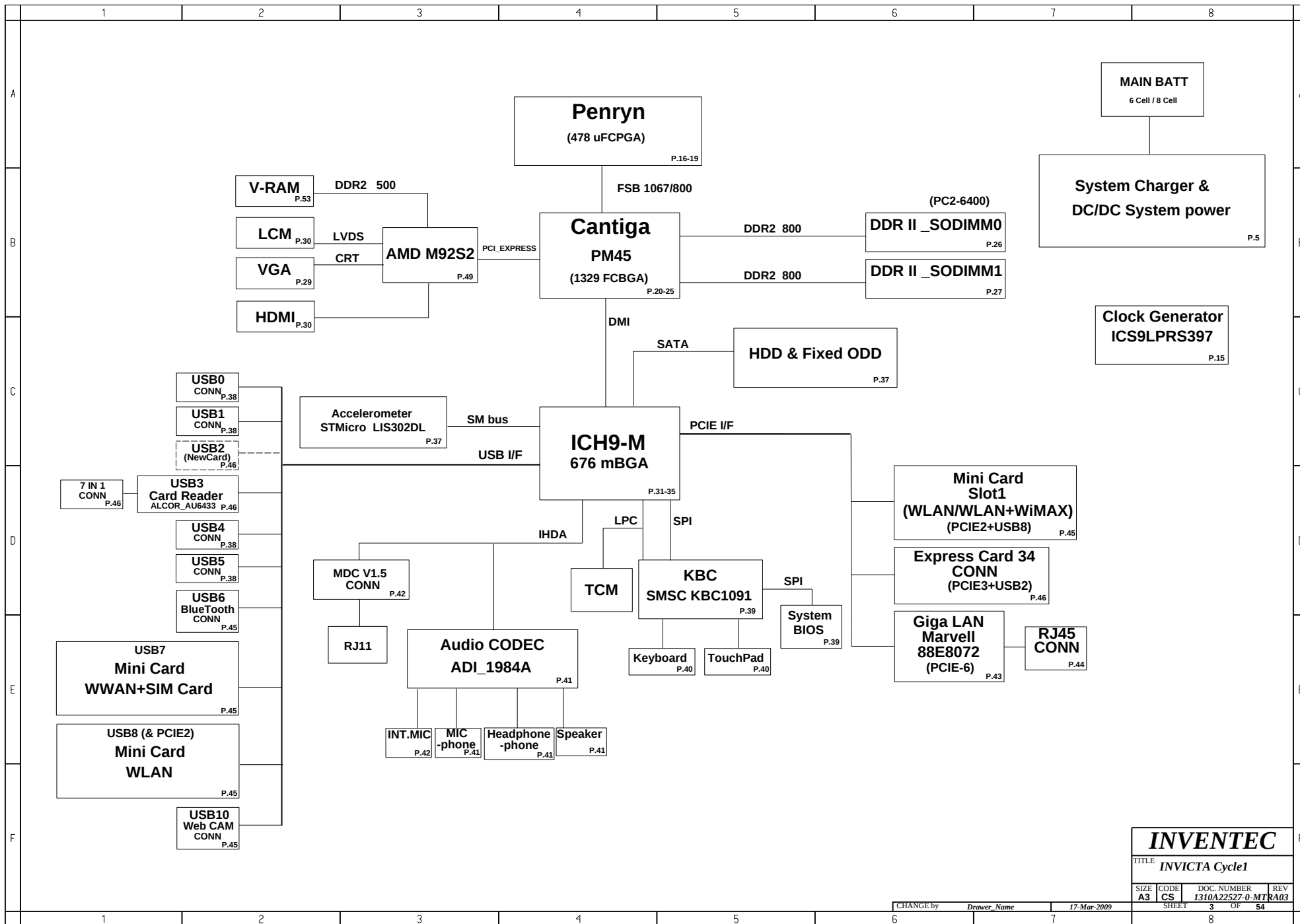
Table Of Contents

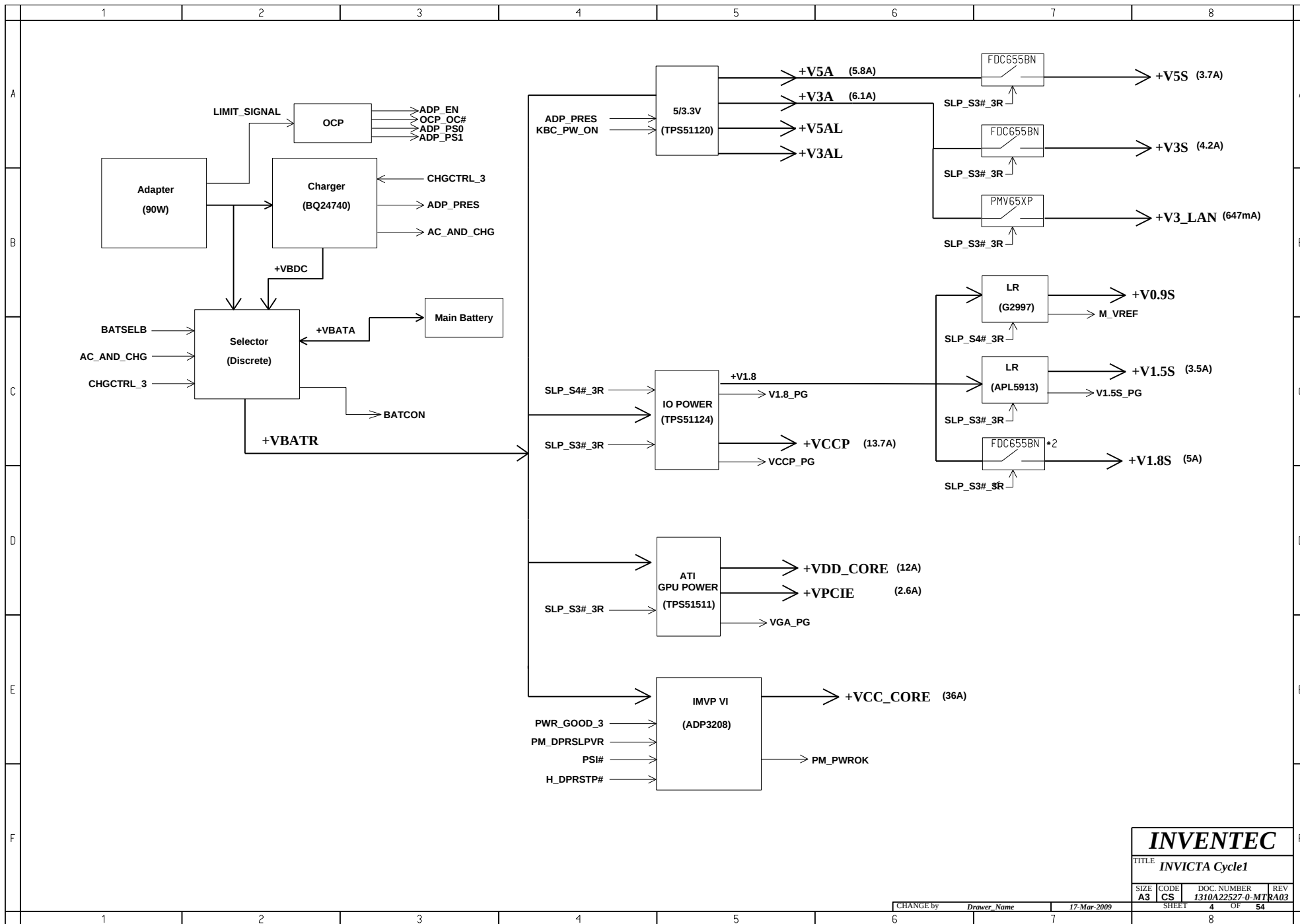
Page	Page	Page
5- DC & Battery Charger & OCP.	15- Clock Generator.	36- Power, LID, APP SW/B.
6- Select & Battery CONN.	16- CPU Penryn-1.	37- HDD & ODD,Accelerometer,15" ODD EXT/B.
7- System Power (+V3A/+V5A).	17- CPU Penryn-2.	38- USB CONN.
8- System Power (+V1.8/+VCCP) .	18- CPU Penryn-3.	39- KBC, BIOS ROM, Debug Port.
9- Graphic Power (+VDD_CORE & +VPCIE).	19- XDP & Thermal & Fan.	40- Internal Keyboard & TouchPad CONN.
10- System Power (+V1.5S) .	20- N/B Cantiga-1.	41- Audio CODEC & Earphone & Speaker.
11- CPU Power (+VCC_CORE).	21- N/B Cantiga-2.	42- Audio MIC & MDC CONN.
12- DDR Termination Voltage(+V0.9S).	22- N/B Cantiga-3.	43- Giga LAN controller.
13- Power (Sleep: +V5S/+V3S/+V1.8S).	23- N/B Cantiga-4.	44- Magnetic & RJ45 CONN.
14- Power (Sequence).	24- N/B Cantiga-5.	45- Mini Card(WLAN/WWAN), BT.
	25- N/B Cantiga-6.	46- New Card & 4 in 1 Card (SD/MMC/MS/XD).
	26- DDR2-DIMM0.	47- LEDs, TCM CONN.
	27- DDR2-DIMM1.	48- Screws, Crack testing circuit.
	28- DDR2-Termination.	49- AMD M92S2-1.
	29- VGA CONN.	50- AMD M92S2-2.
	30- LCD,WebCam,HDMI CONN.	51- AMD M92S2-3.
	31- S/B ICH9-1.	52- AMD M92S2-4.
	32- S/B ICH9-2.	53- Video RAM-1 (DDR2).
	33- S/B ICH9-3.	54- Video RAM-2 (DDR2).
	34- S/B ICH9-4.	
	35- S/B ICH9-5.	

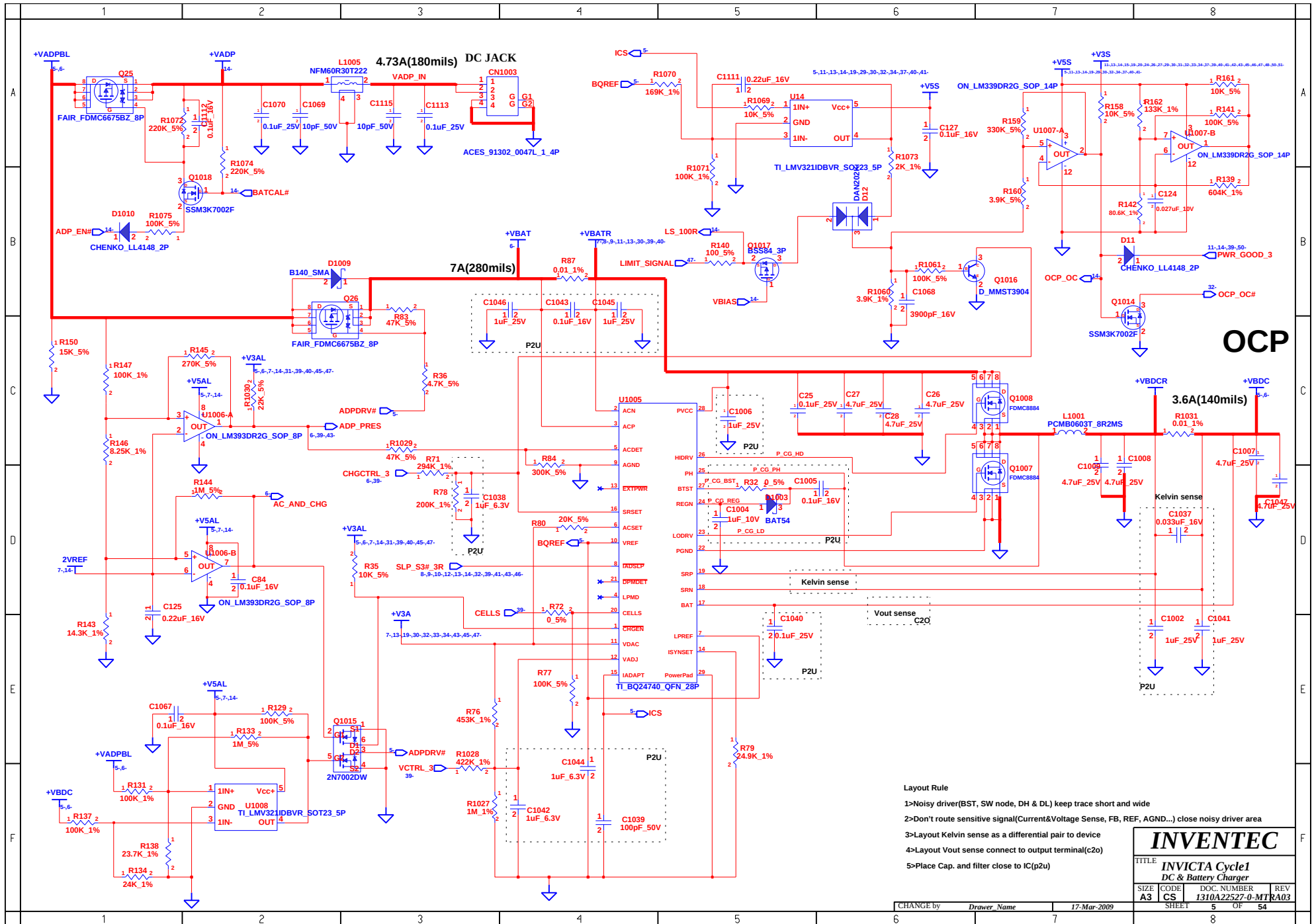
INVENTEC

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SHEET 2		OF 54	

CHANGE by *Drawn Name* 17-Mar-2009



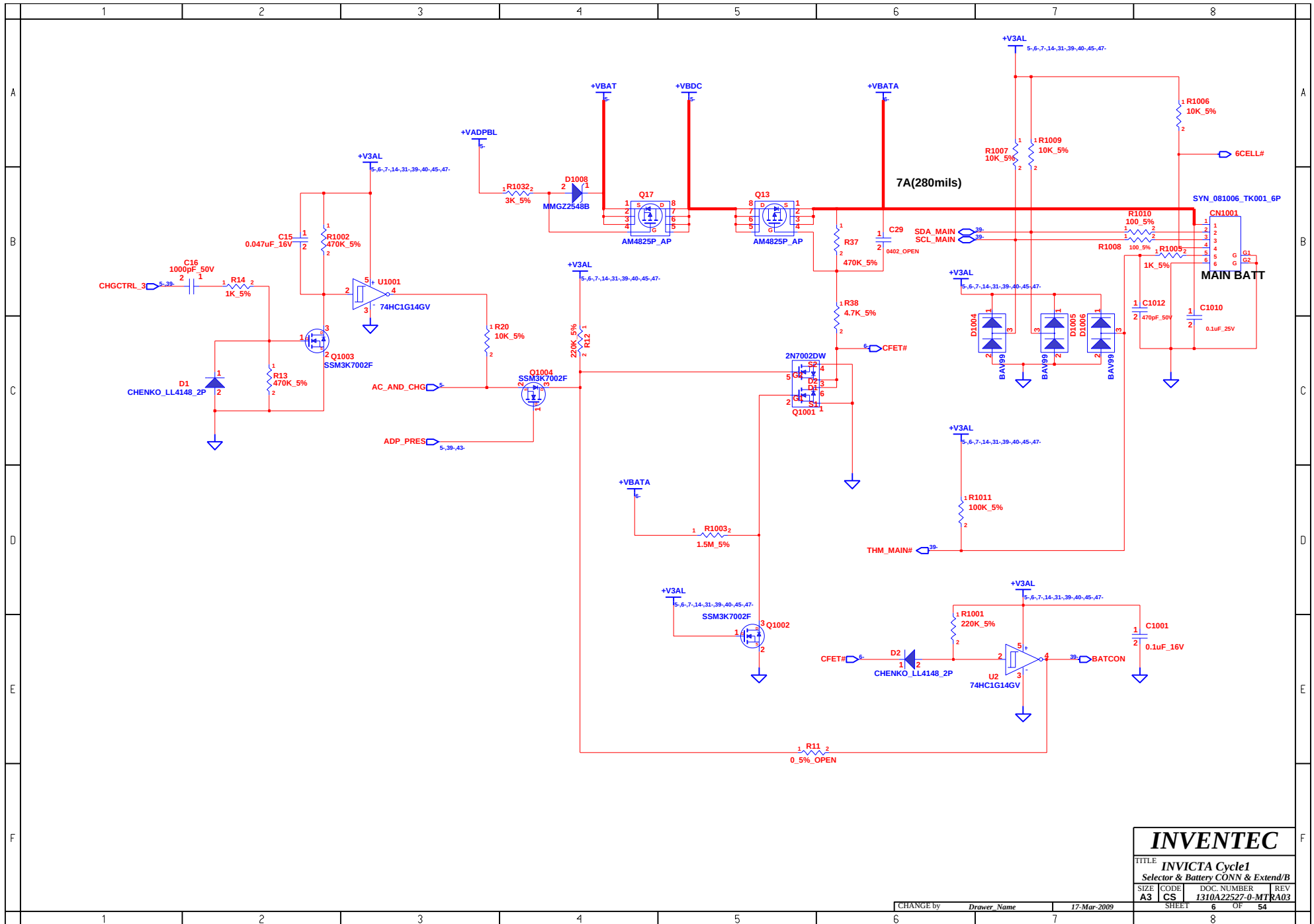


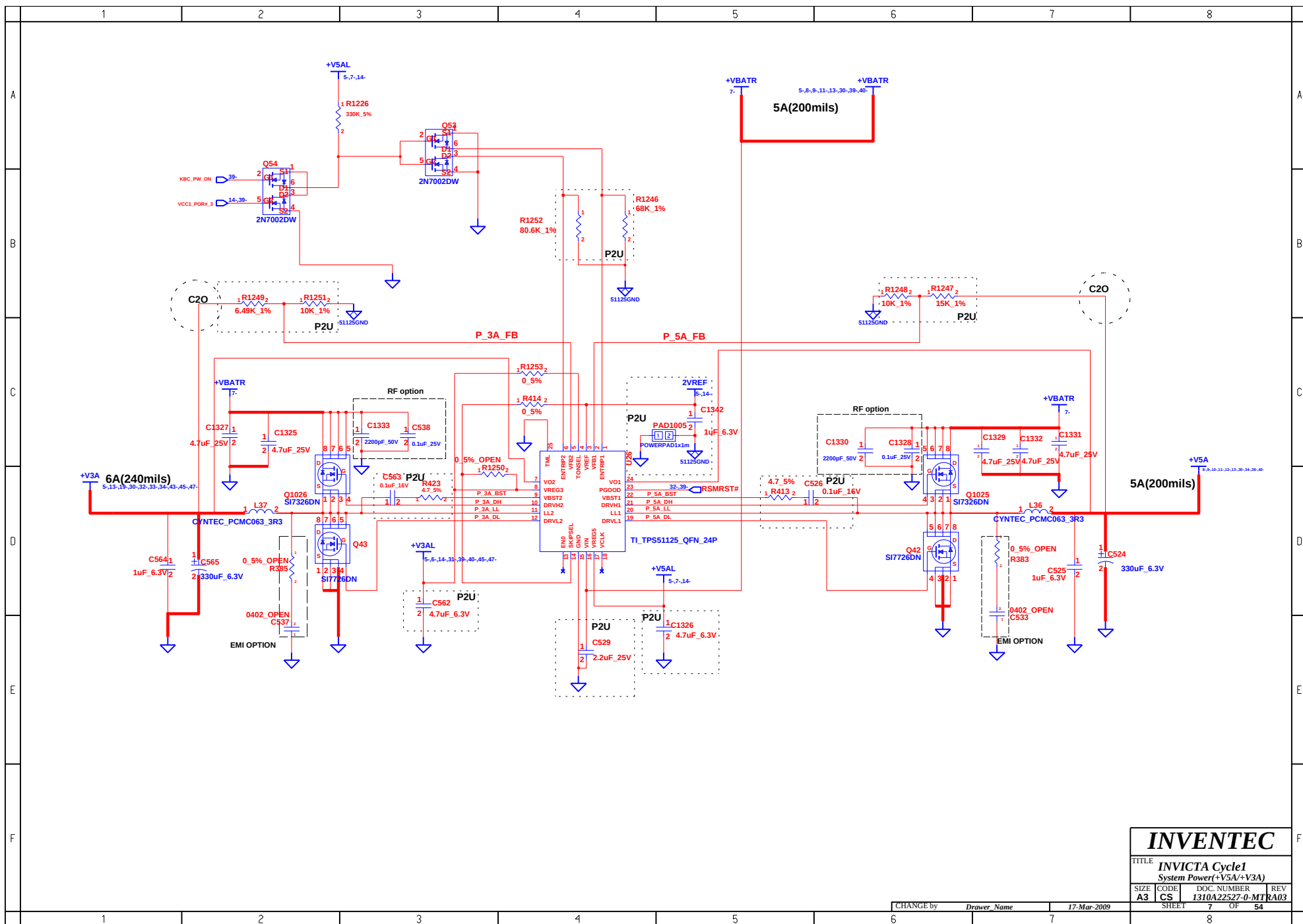


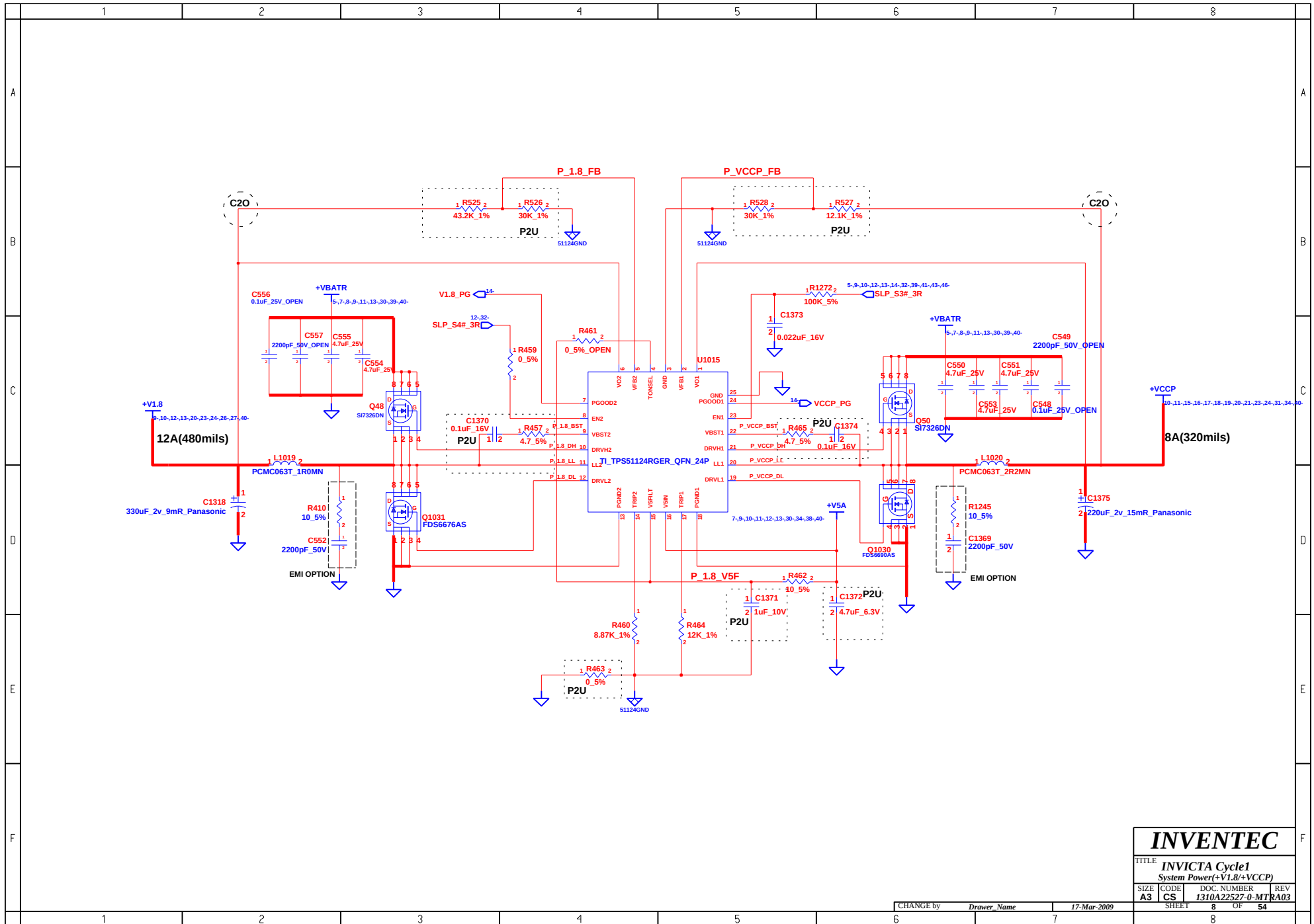
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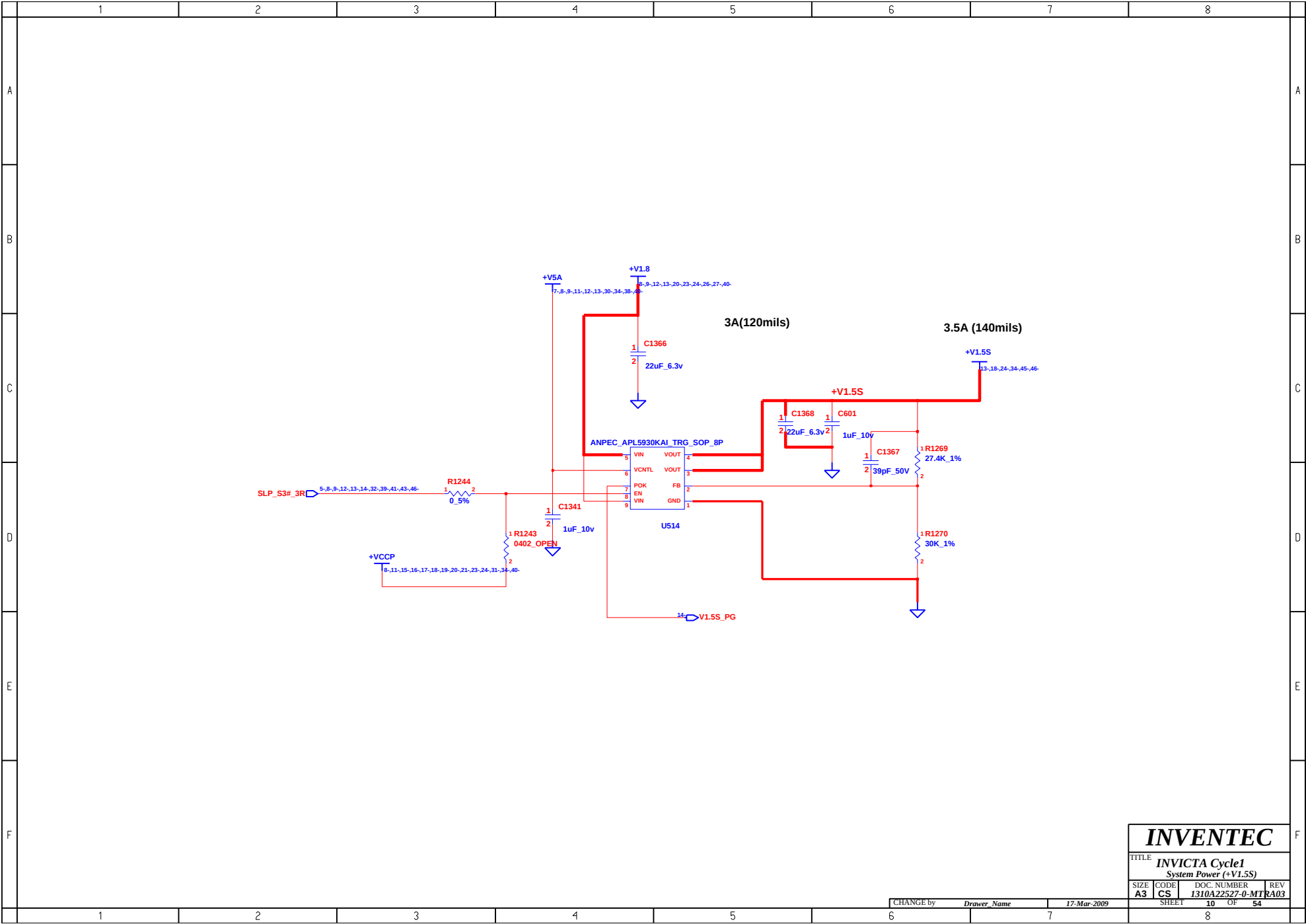
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SIZE A3	CODE CS	DOC. NUMBER I310A22527-0-MT	REV A03
SHEET 5		OF 54	

CHANGE by *Drawn Name* 17-Mar-2009









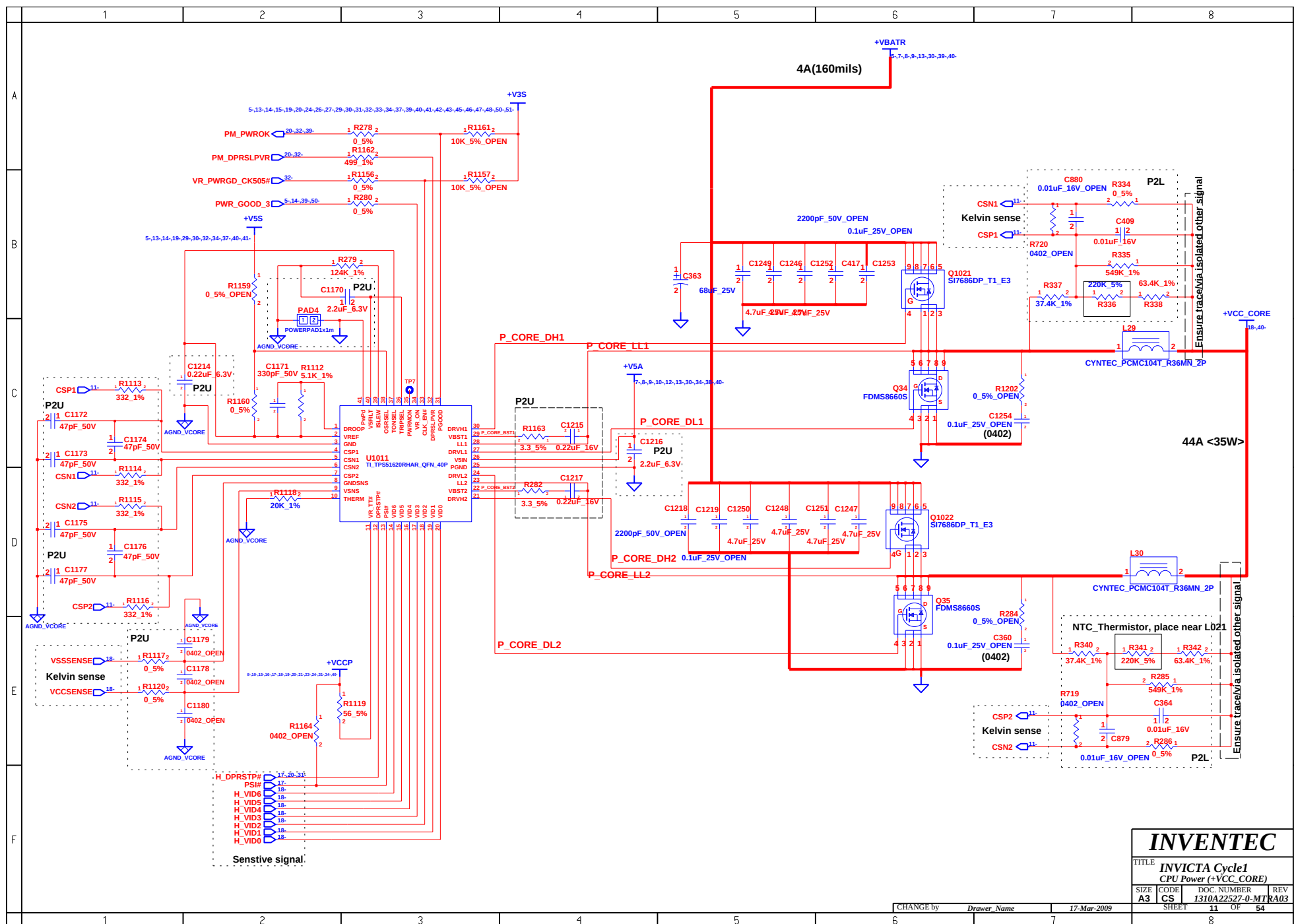
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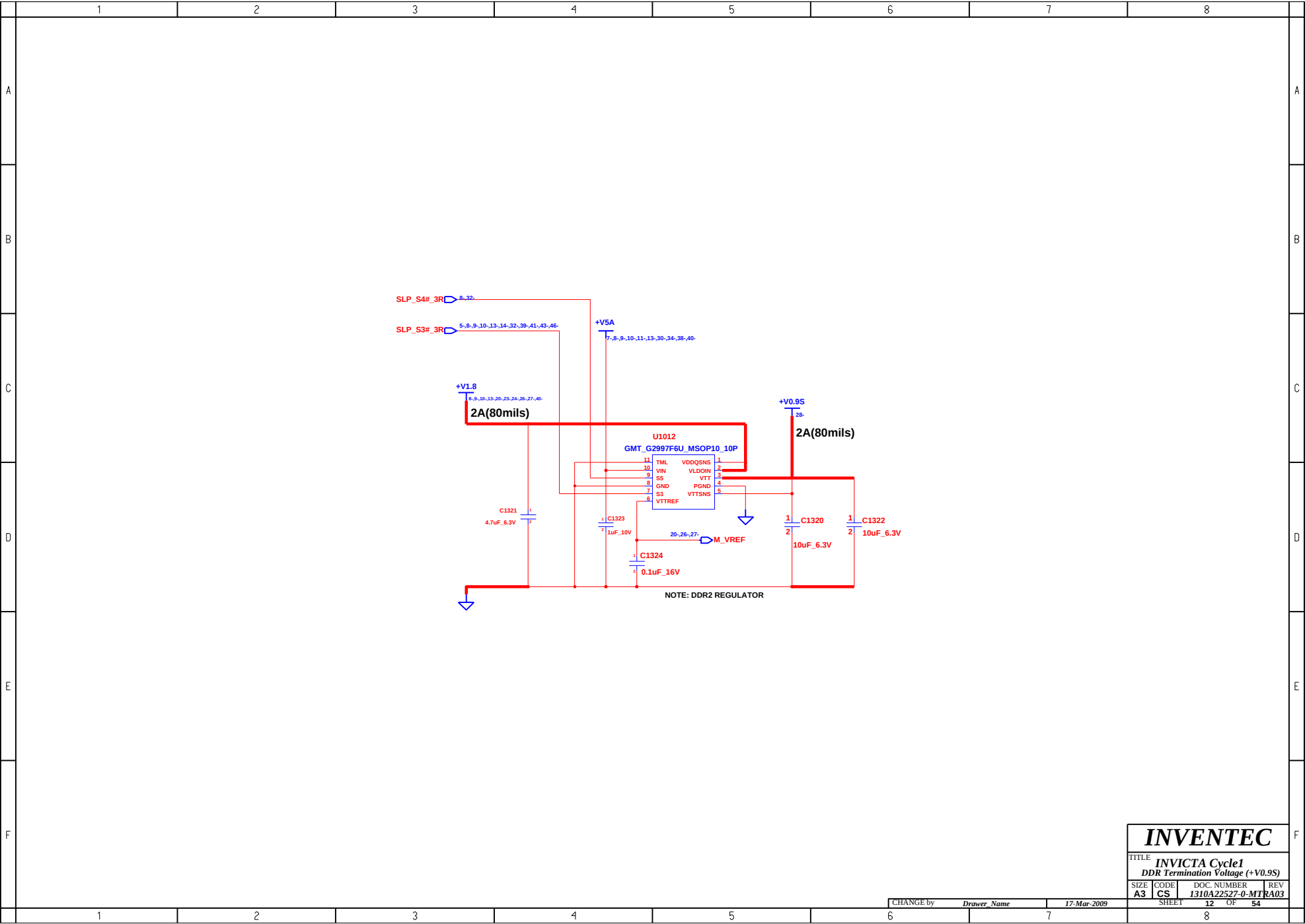
TITLE
INVICTA Cycle1
System Power (+V1.5S)

SIZE A3	CODE CS	DOC. NUMBER I310AZ2527-0-MTR	REV A03
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CHANGE by *Drawer Name* 17-Mar-2009

SHEET 10 OF 54





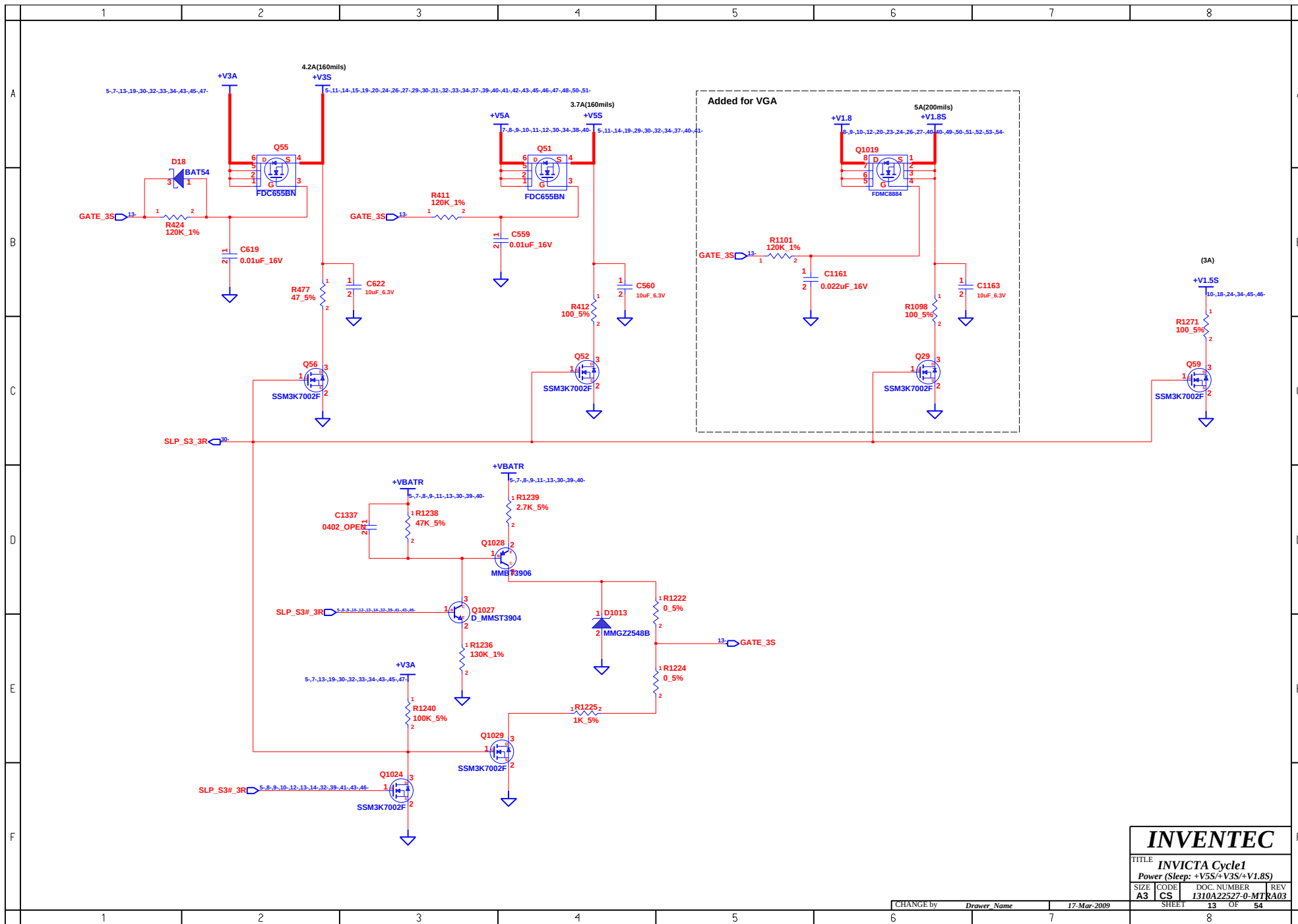
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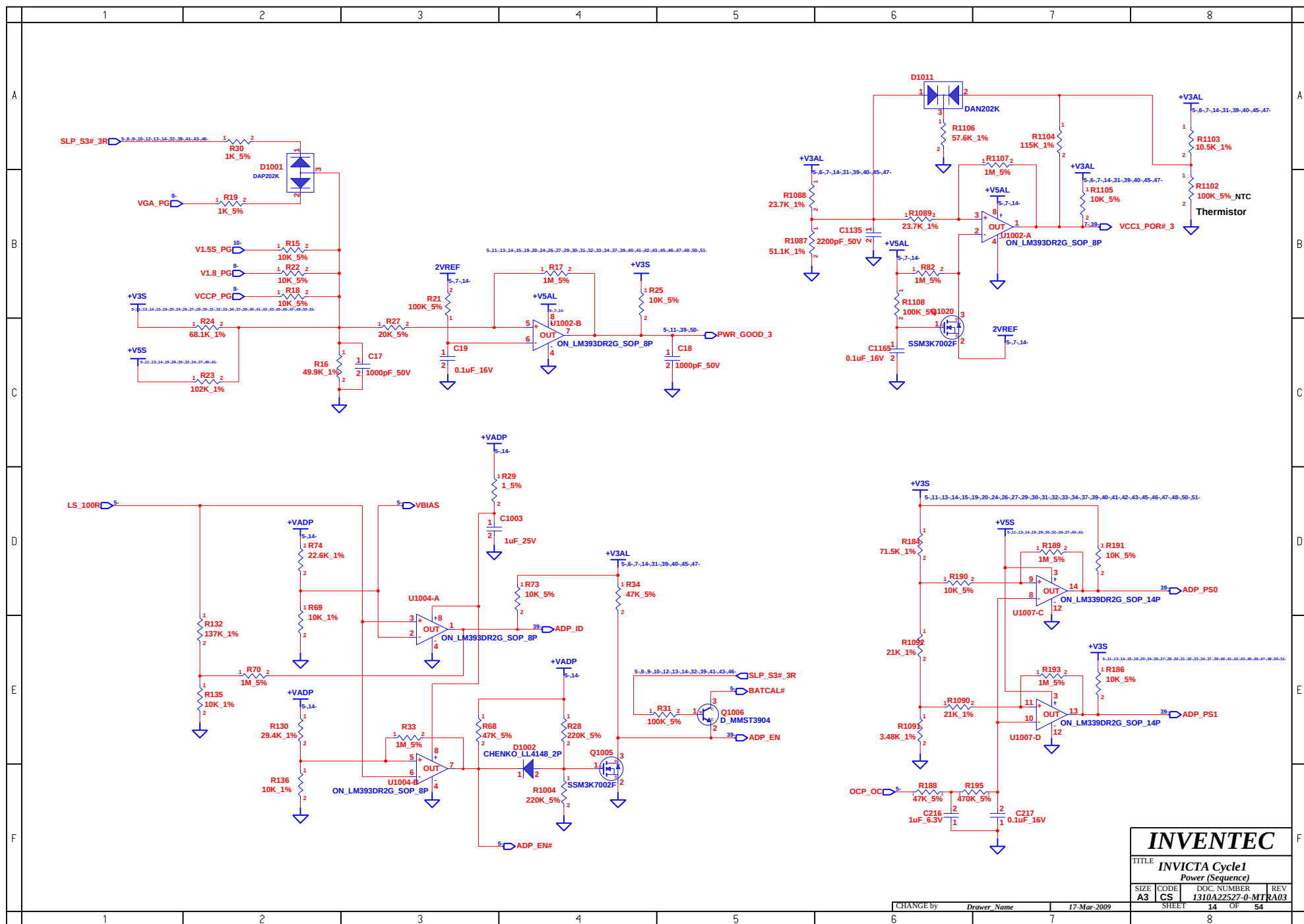
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DDR Termination Voltage (+V0.9S)

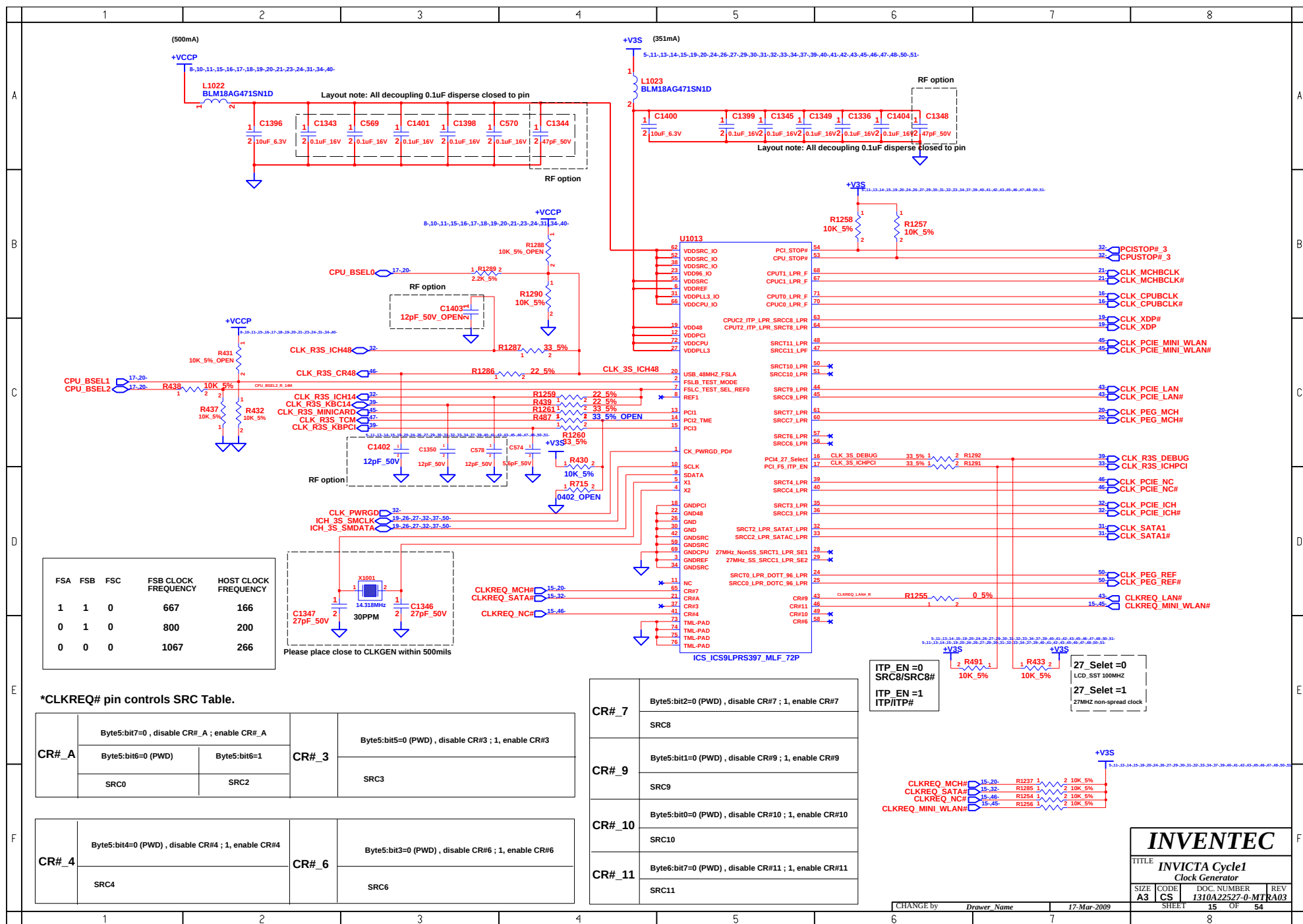
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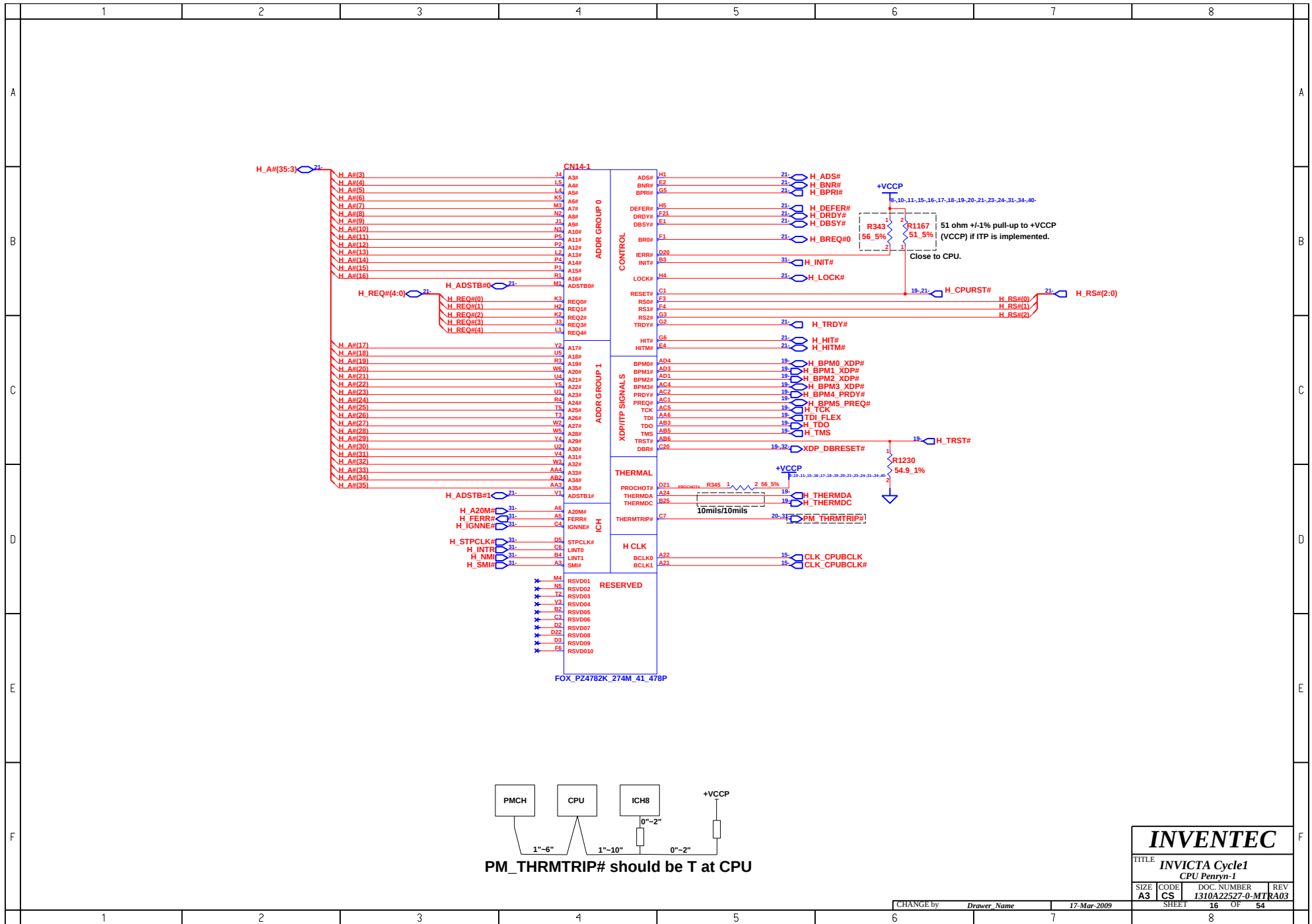
CHANGE by *Drawn Name* 17-Mar-2009

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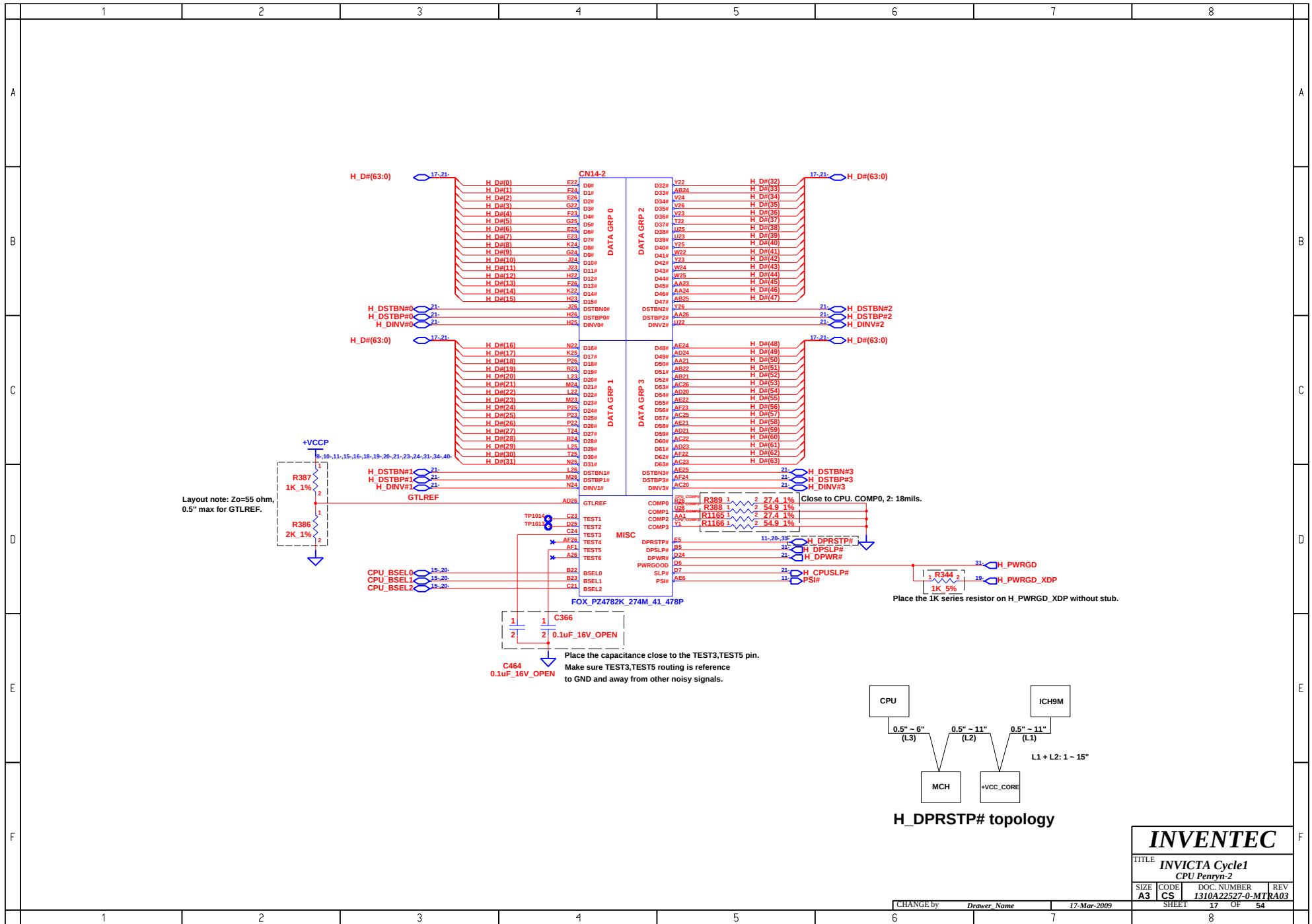


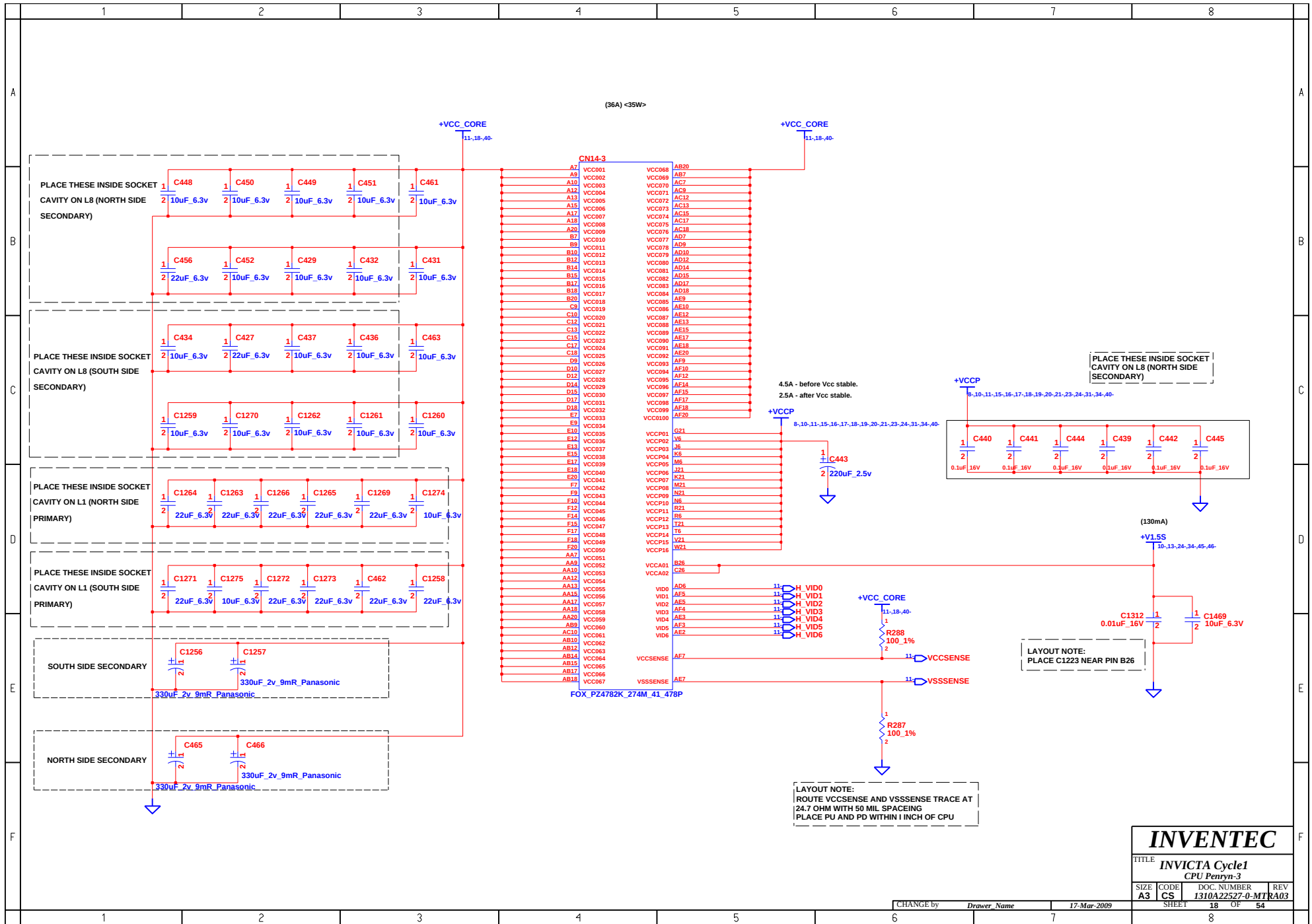


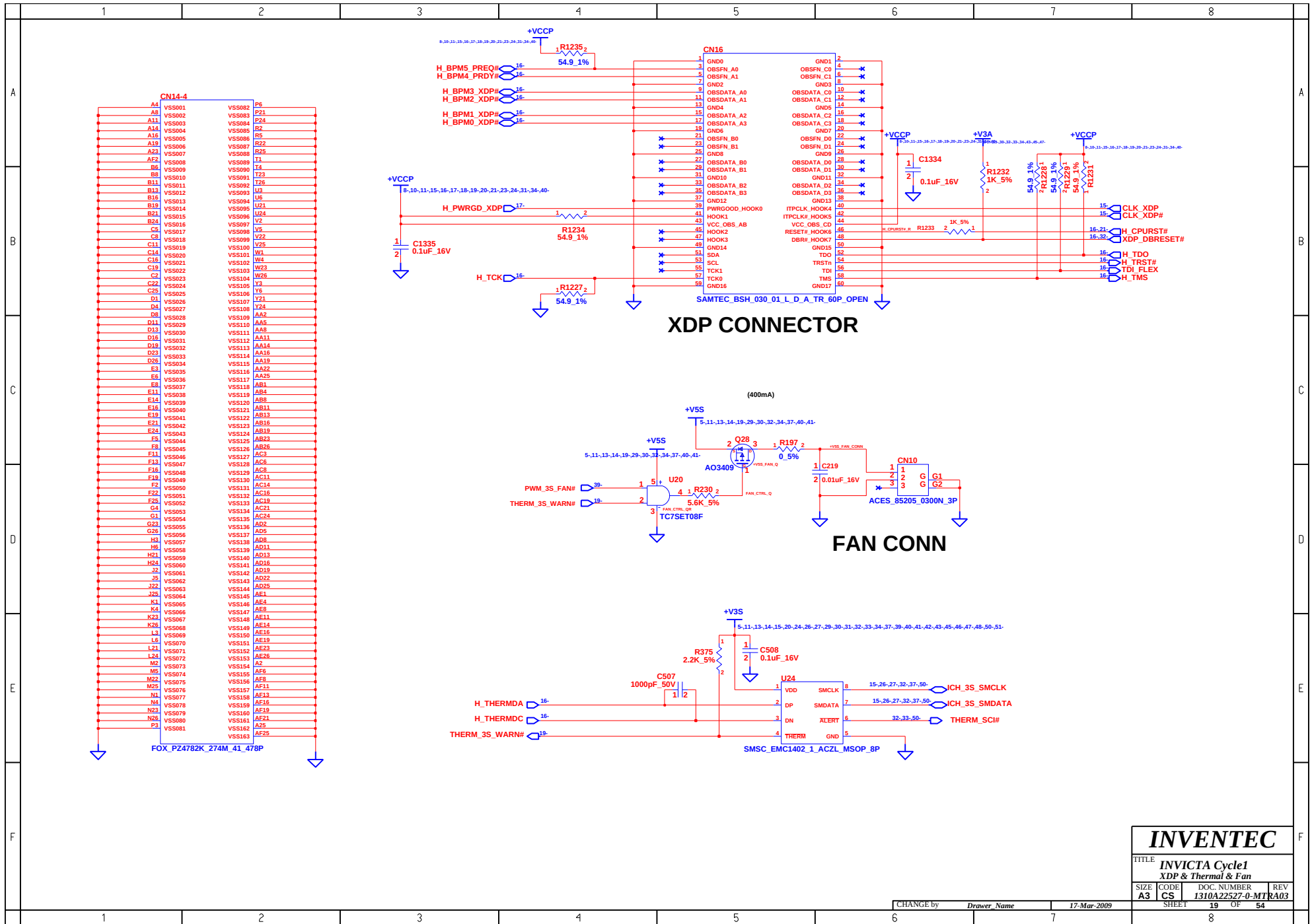


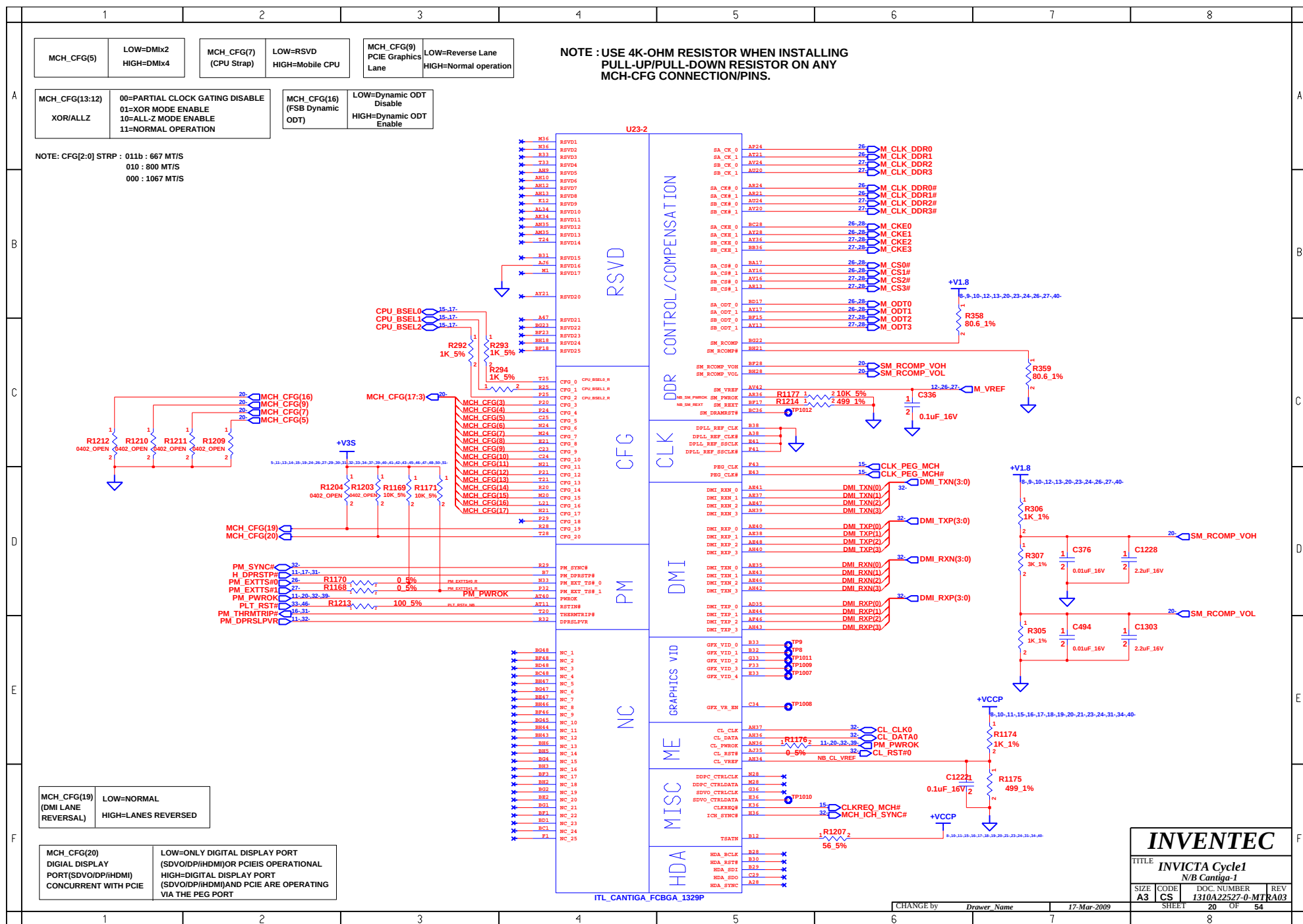
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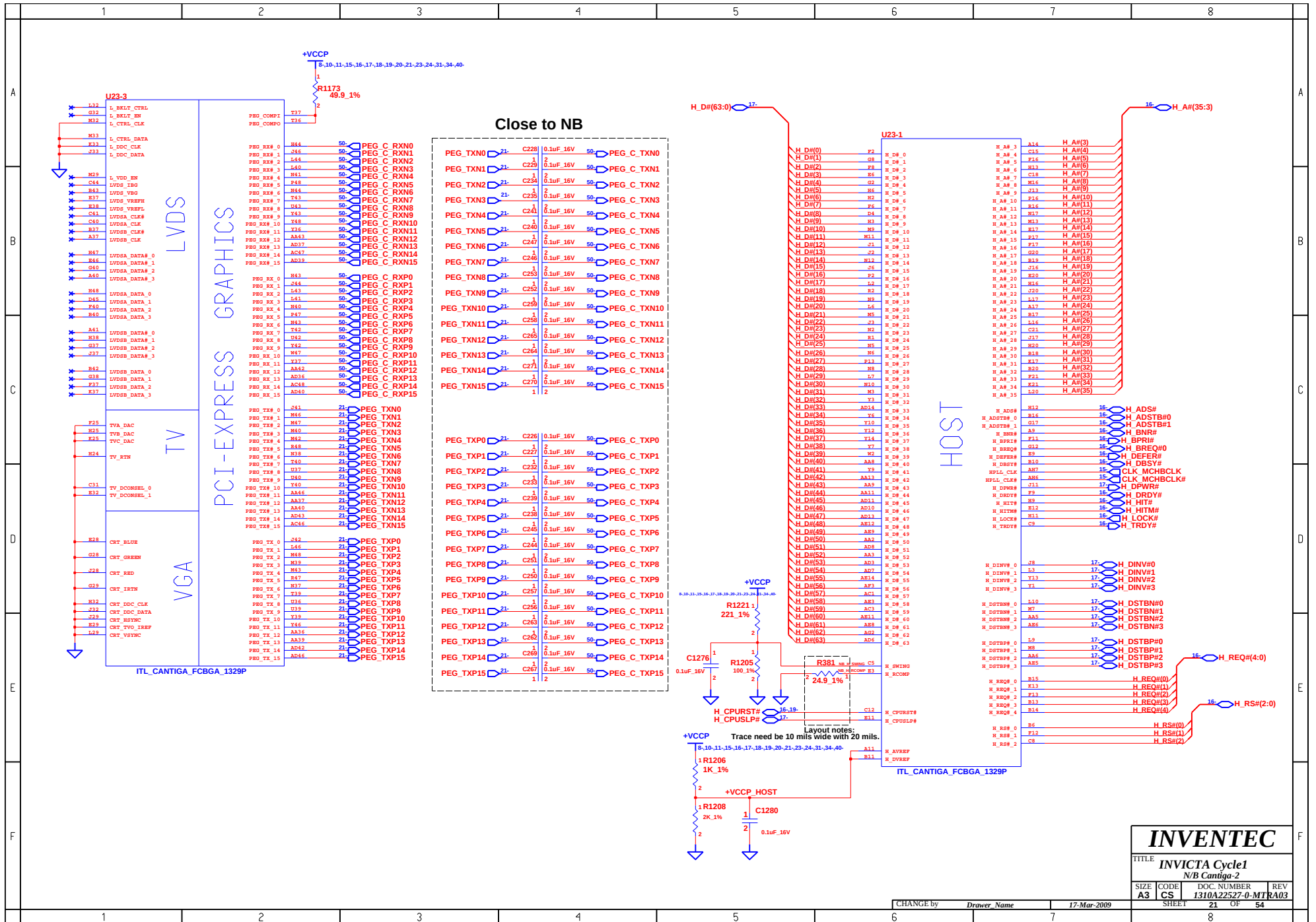
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INVICTA Cycle1		
CPU Penryn-1		
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REV	RA03	
SHEET	16	OF 54







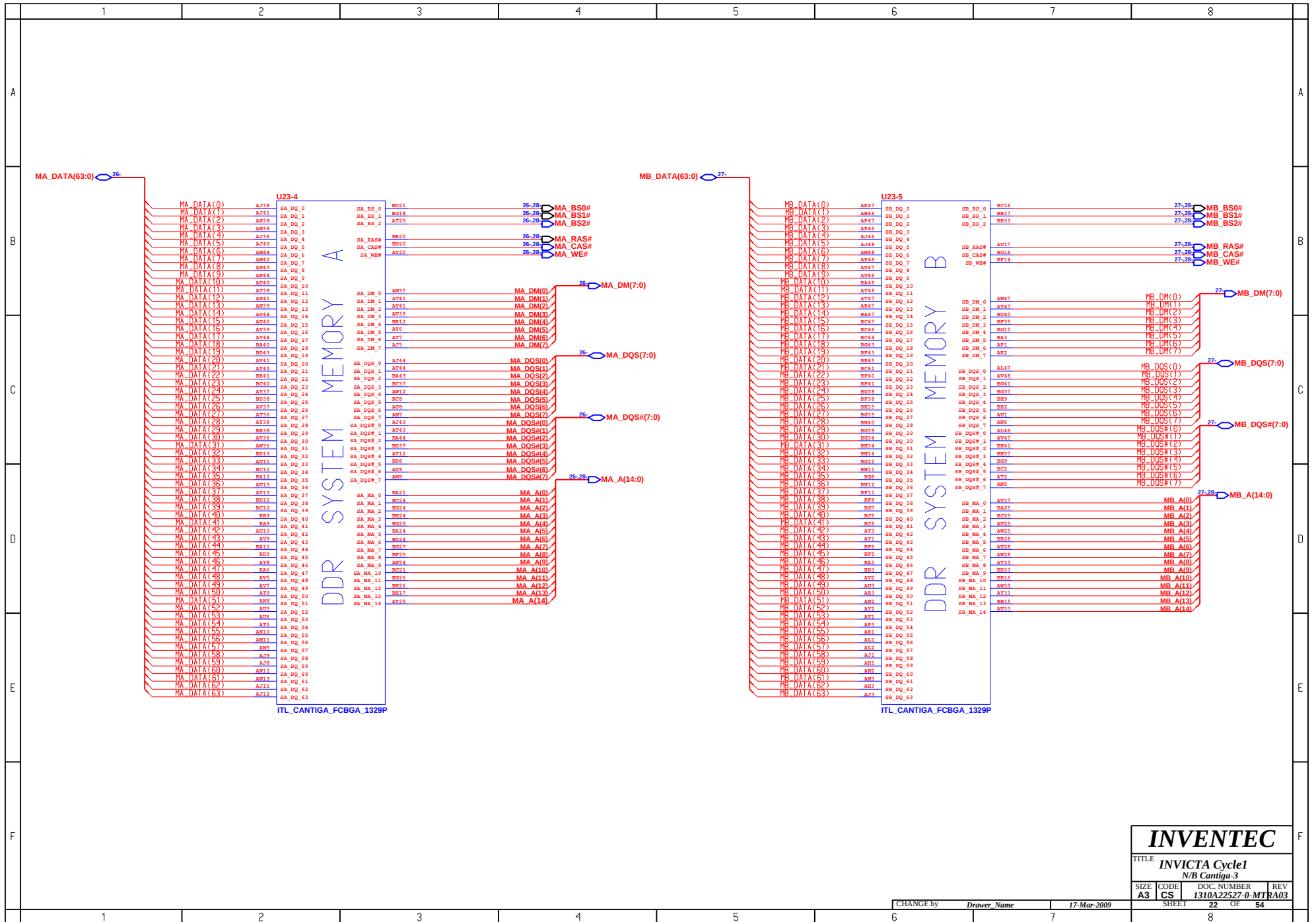




INVENTEC

TITLE			
INVICTA Cycle1			
N/B Cantiga-2			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		21	OF 54

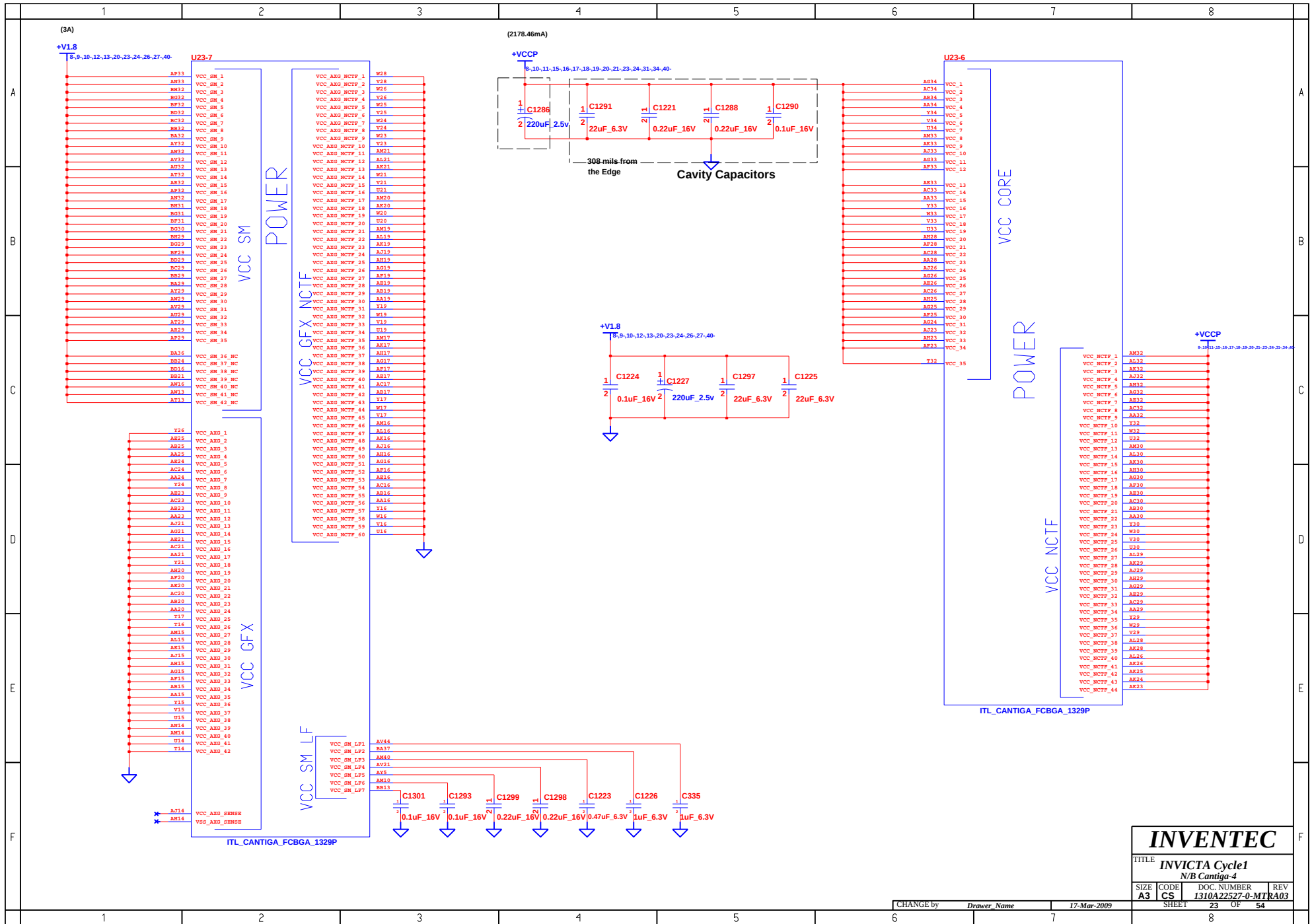
CHANGE by *Drawn Name* 17-Mar-2009



INVENTEC

TITLE INVICTA Cycle1 N/B Cantiga-3			
SIZE A3	CODE CS	DOC. NUMBER 1310A22527-0-MTR	REV A03
SHEET 22		OF 54	

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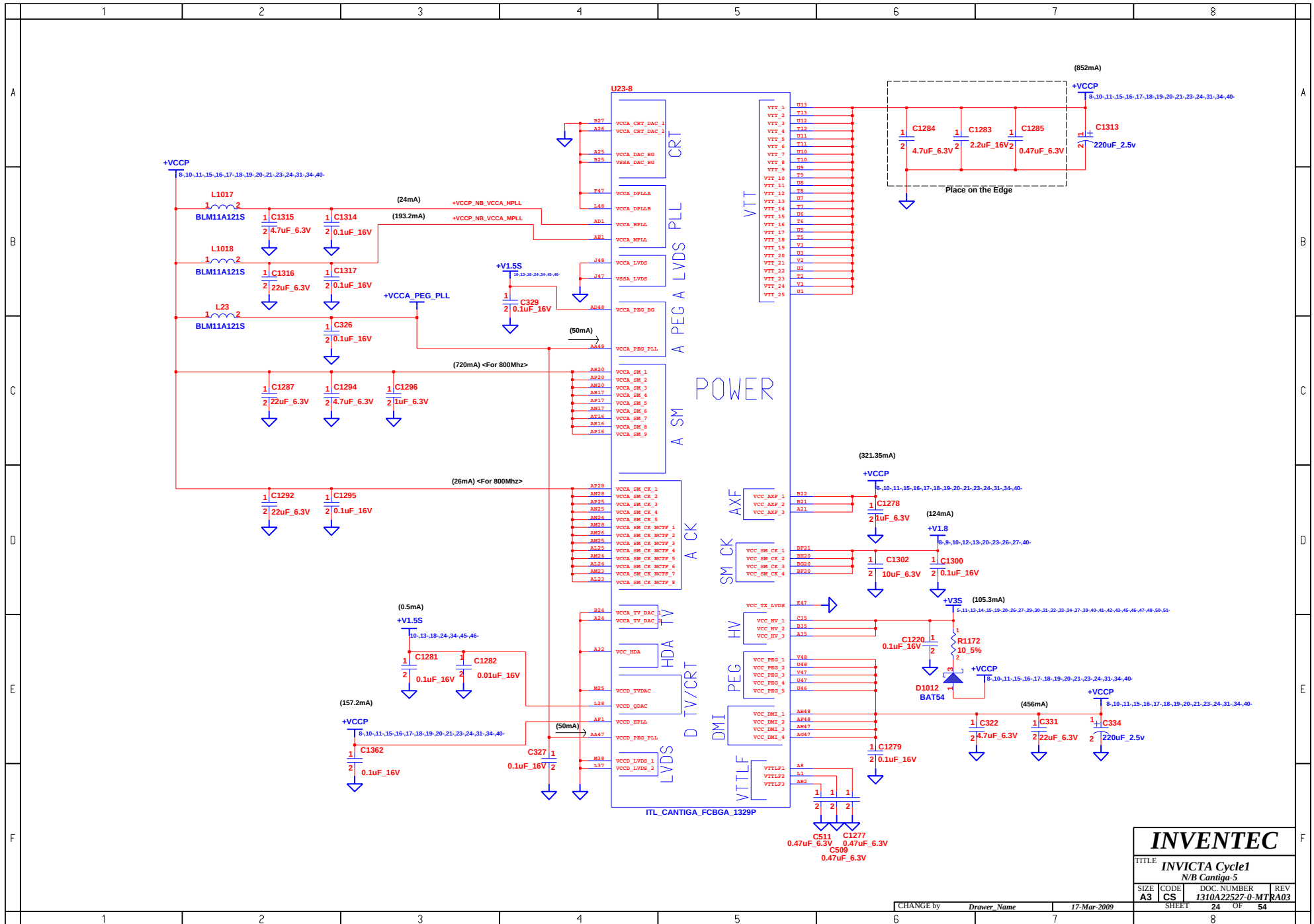
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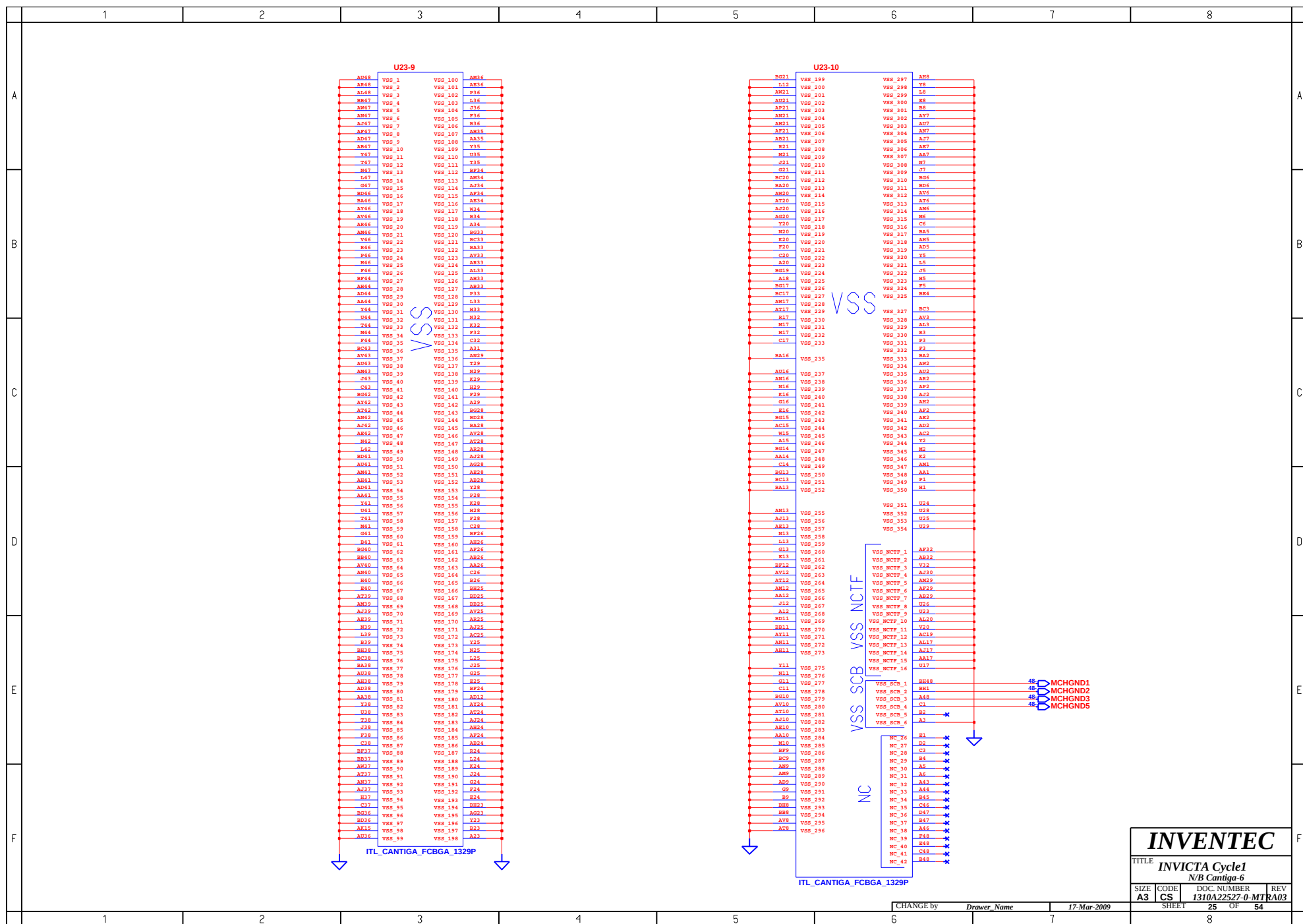
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INVICTA Cycle1
N/B Cantiga-4

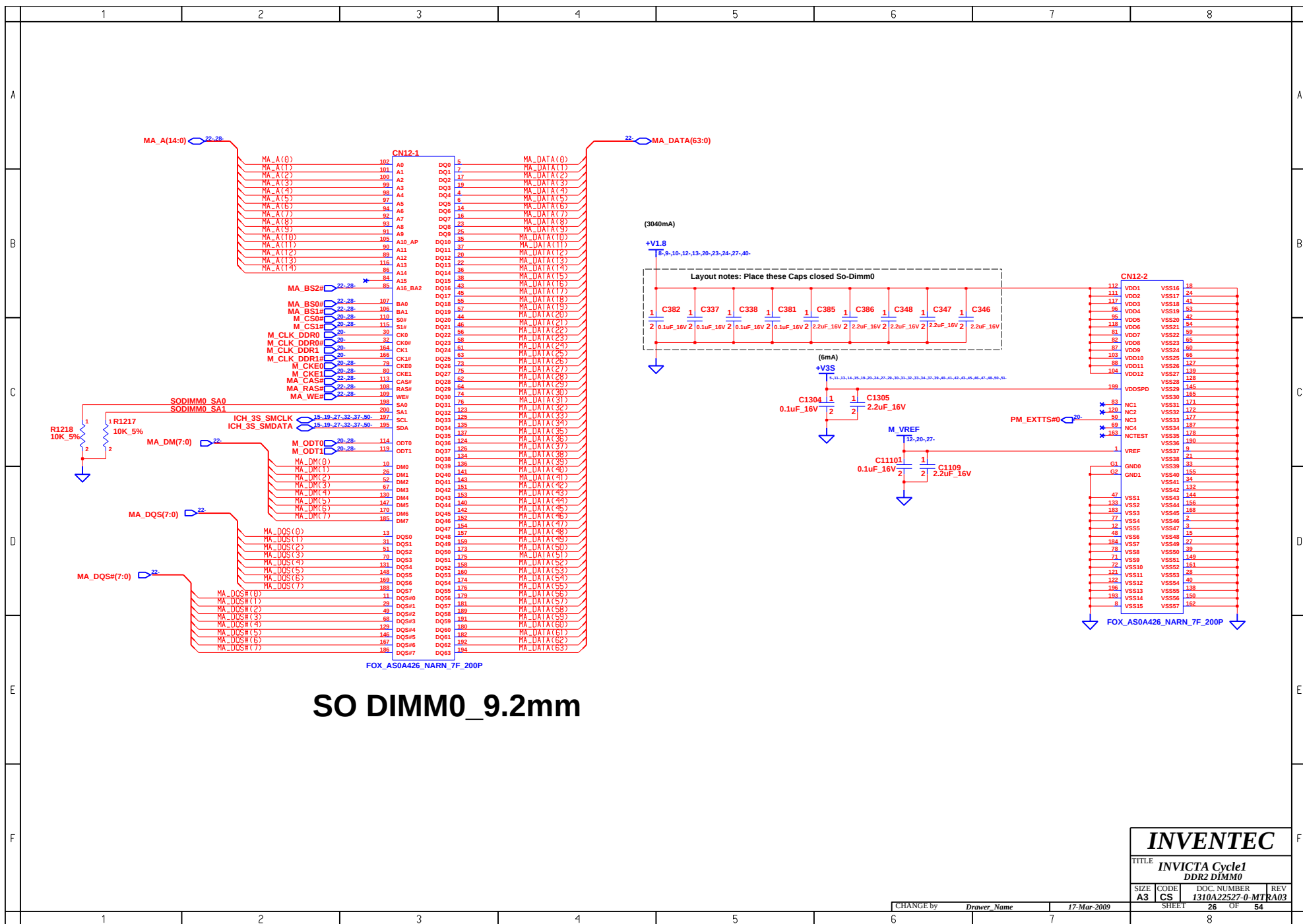
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A3	CS	1310A22527-0-MT	RA03

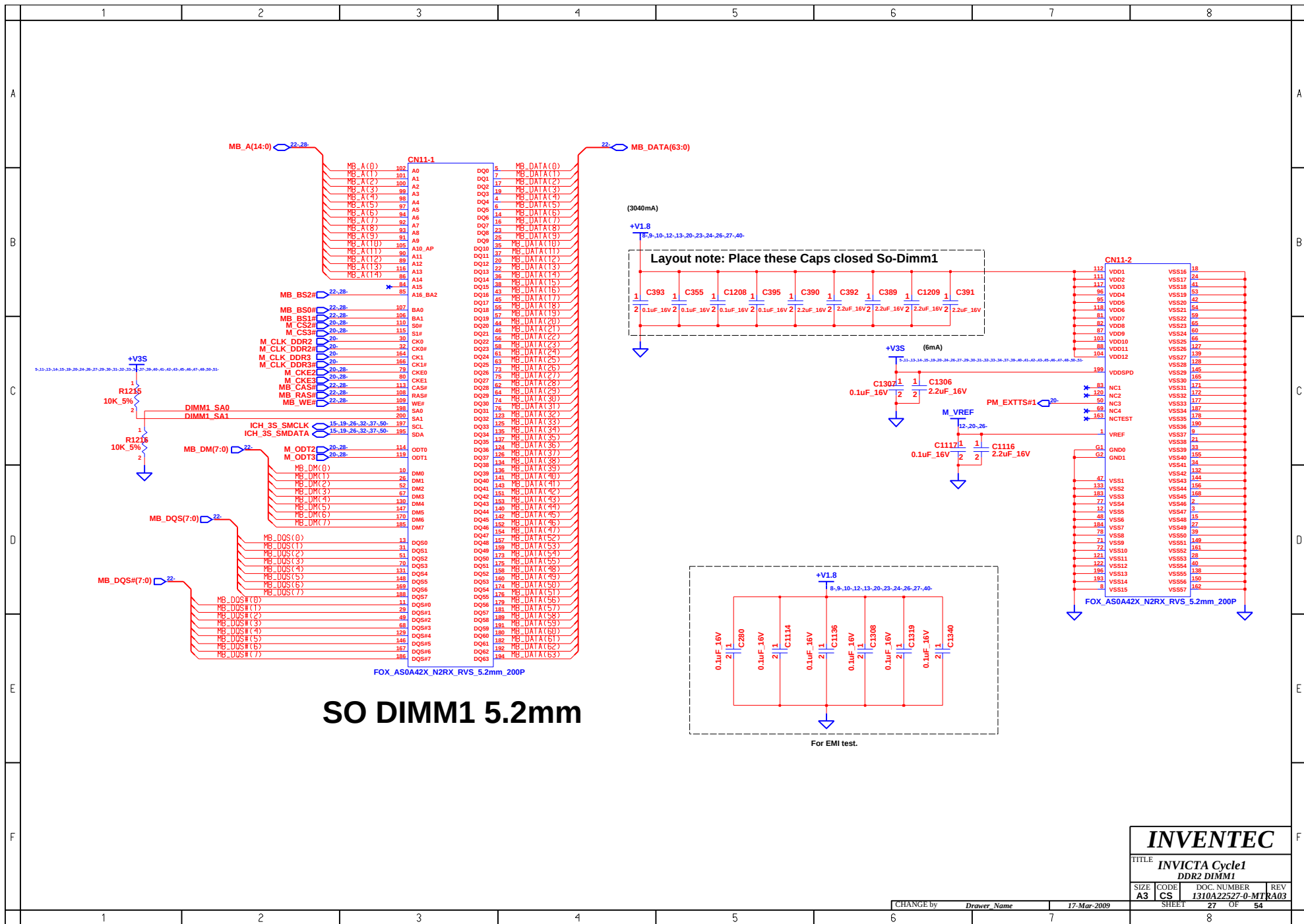
CHANGE by: Drawer Name 17-Mar-2009

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SO DIMM1 5.2mm

INVENTEC

TITLE INVICTA Cycle1

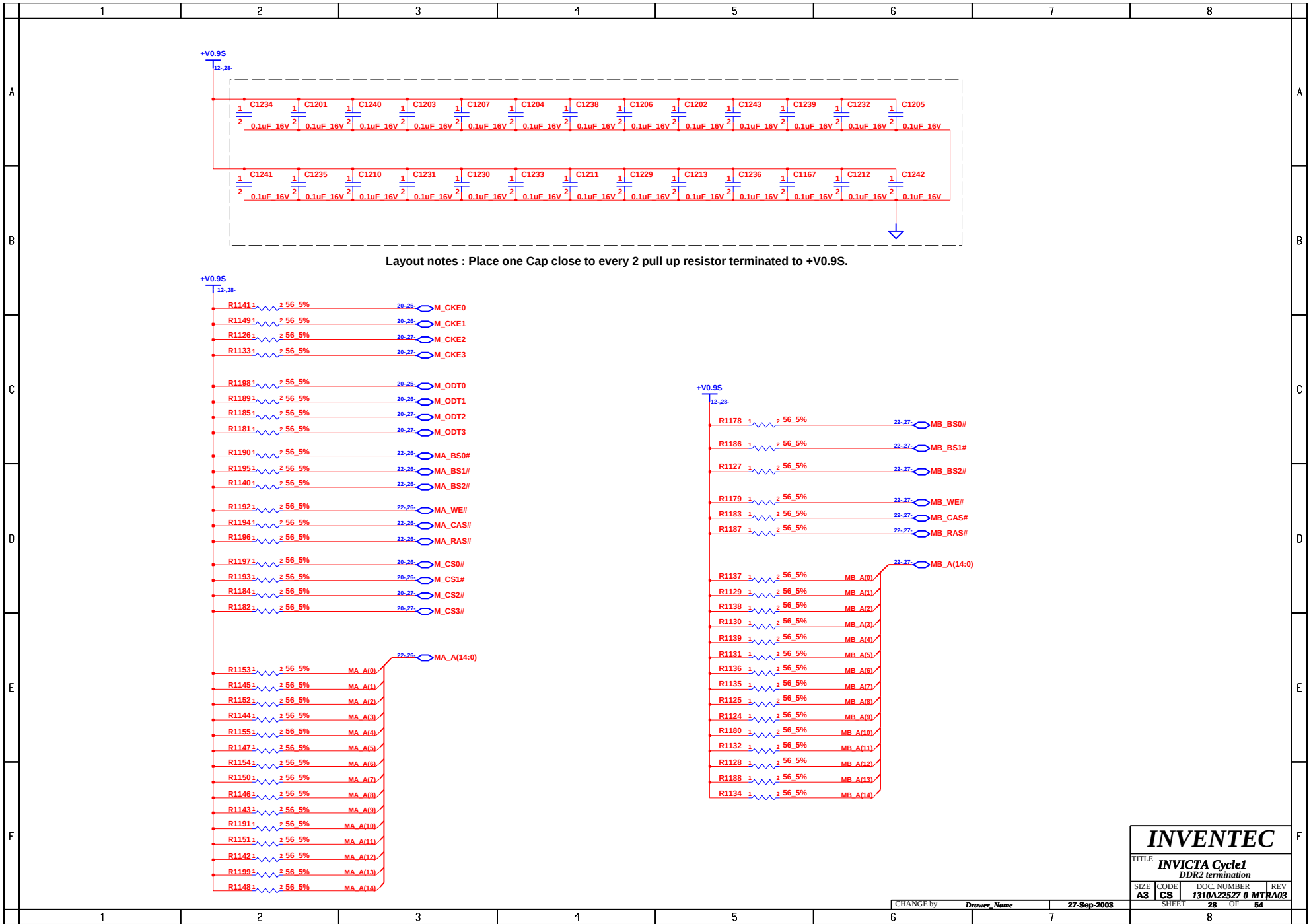
DDR2 DIMM1

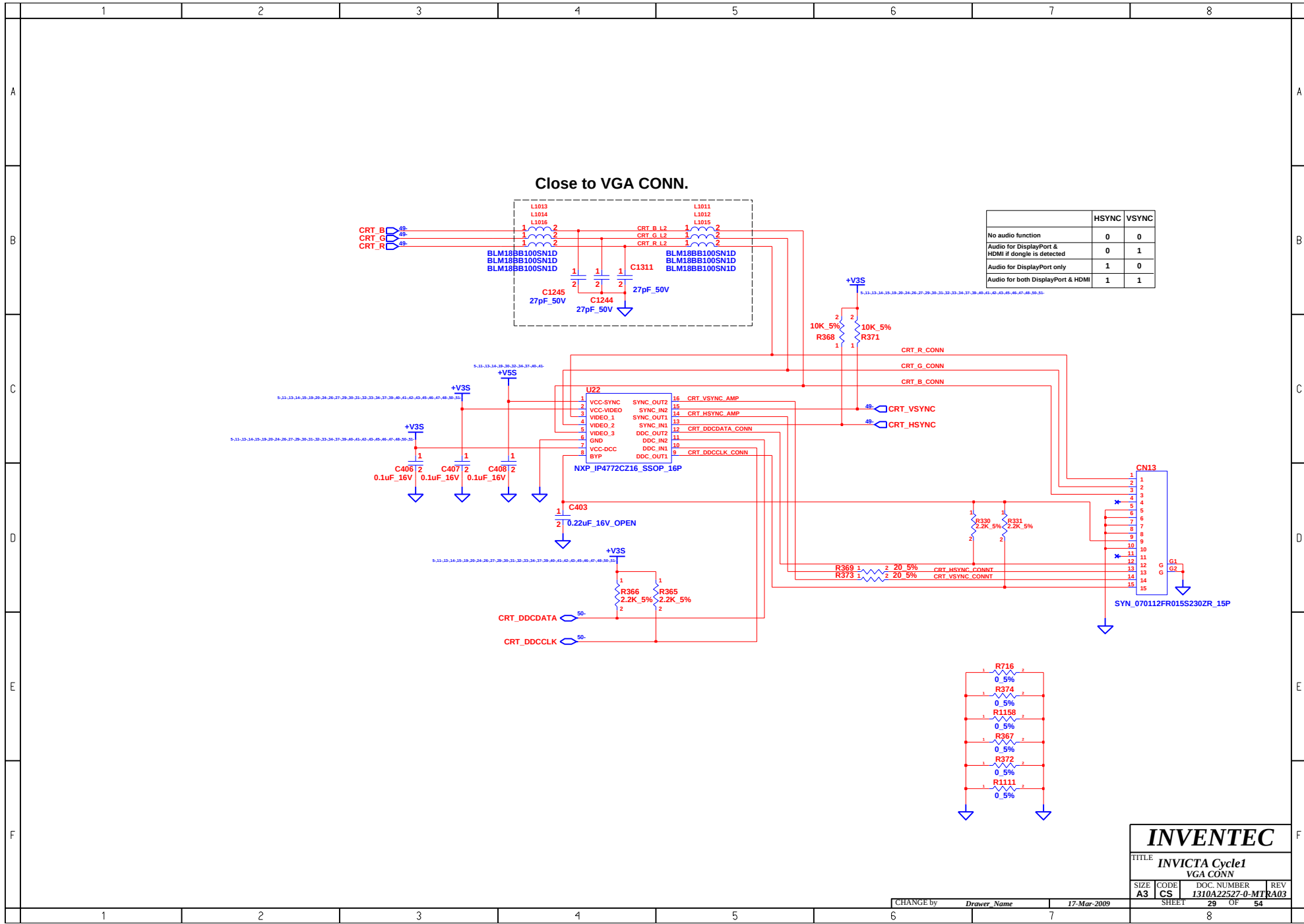
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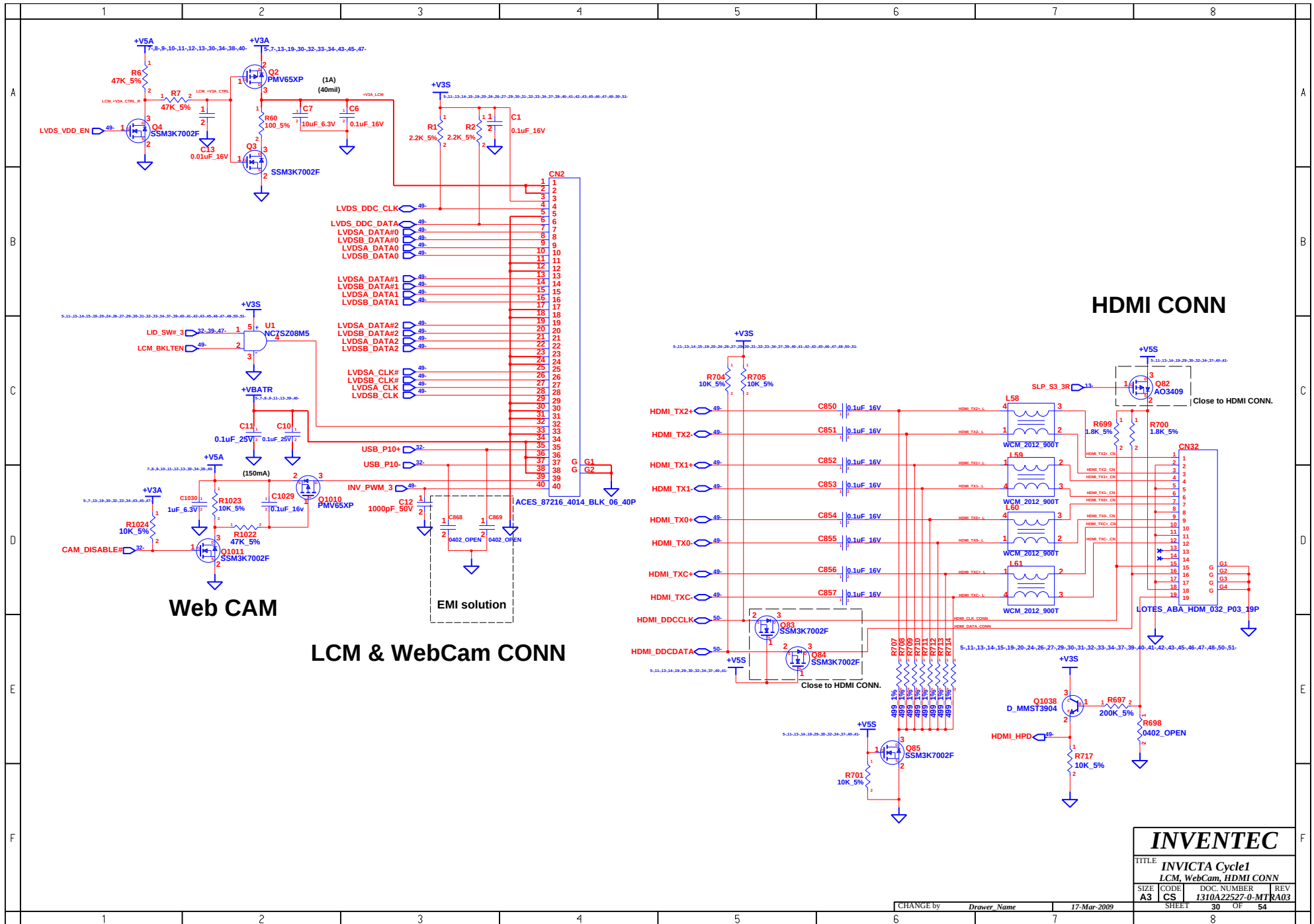
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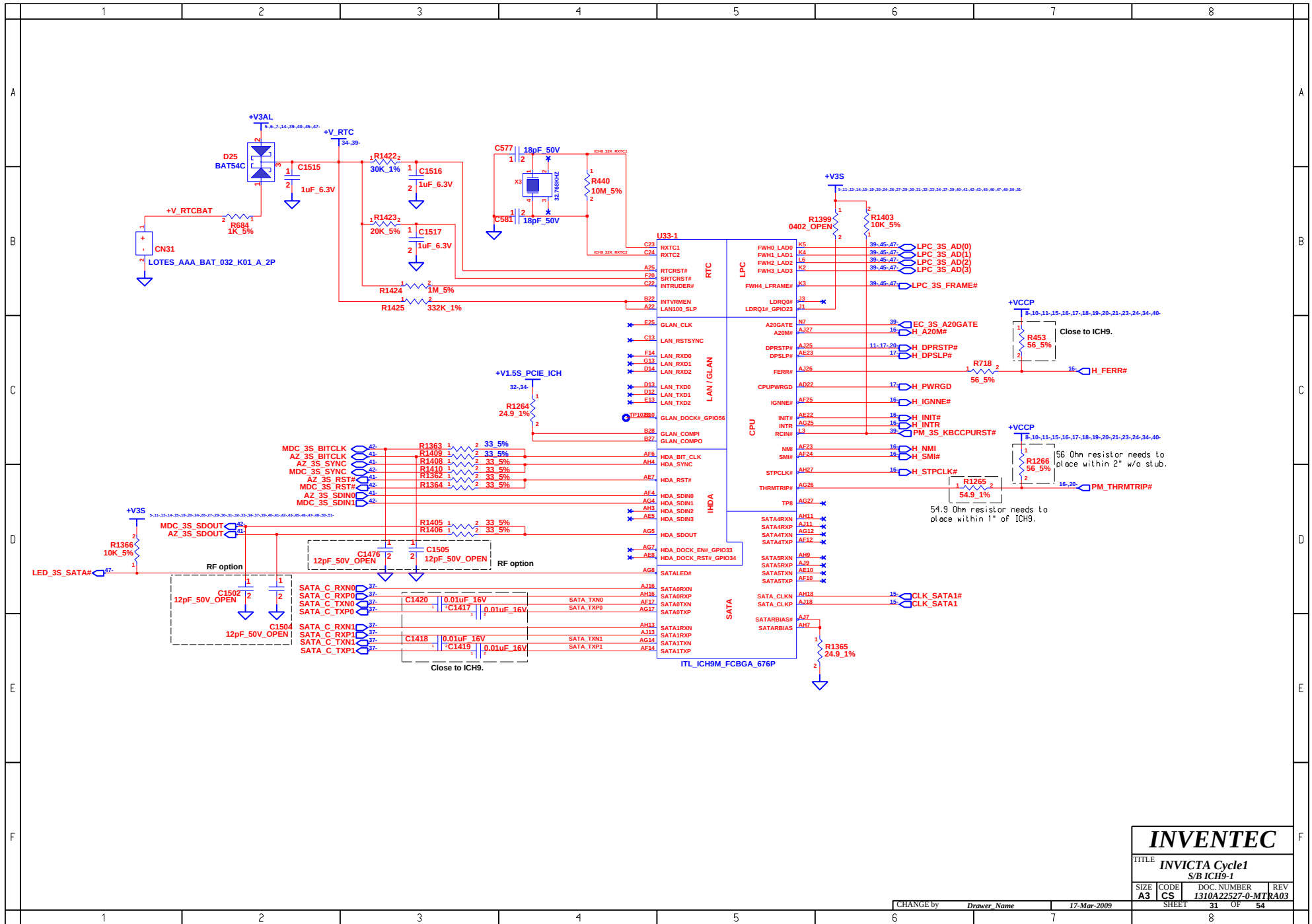
CHANGE by Drafter Name 17-Mar-2009

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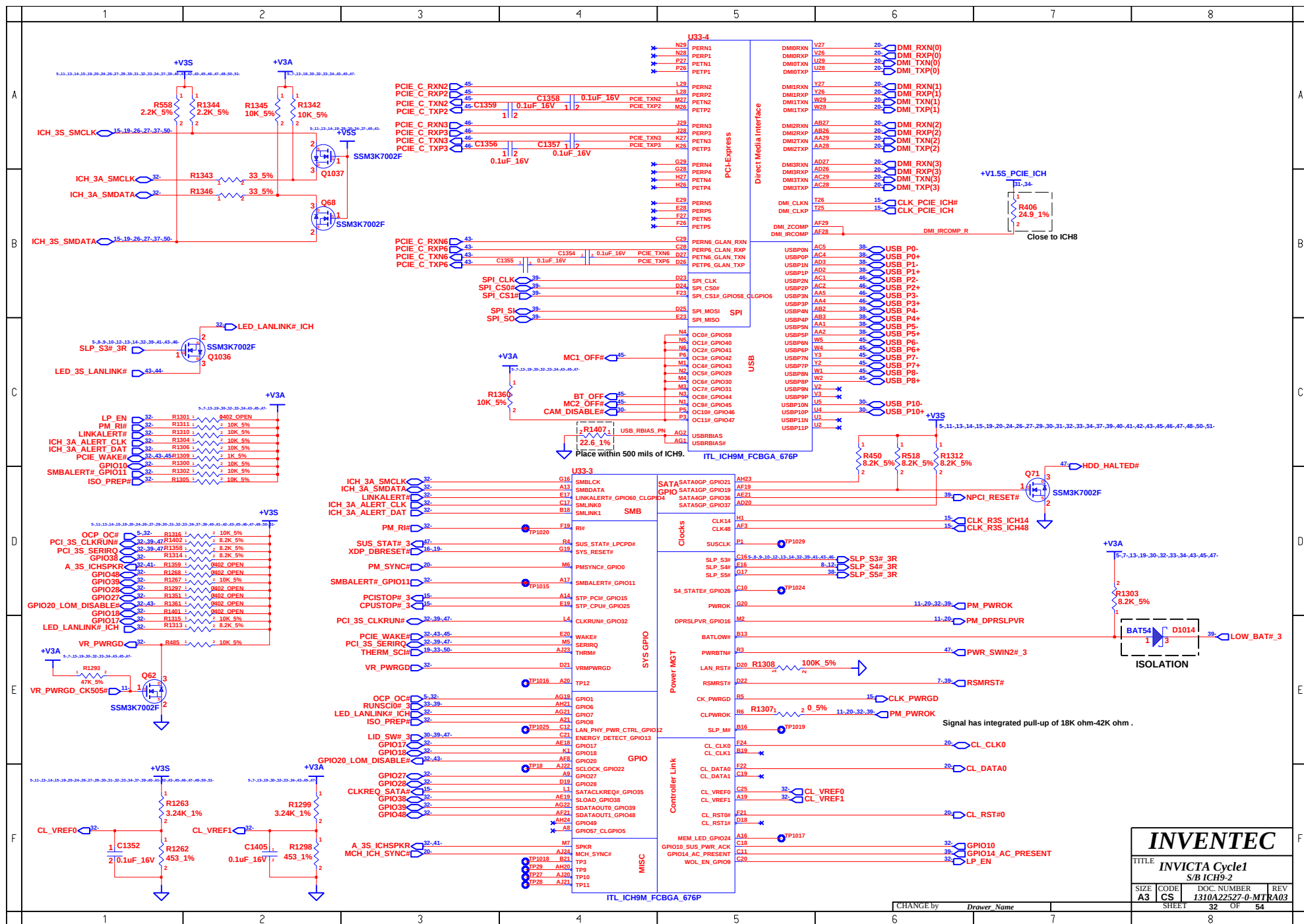


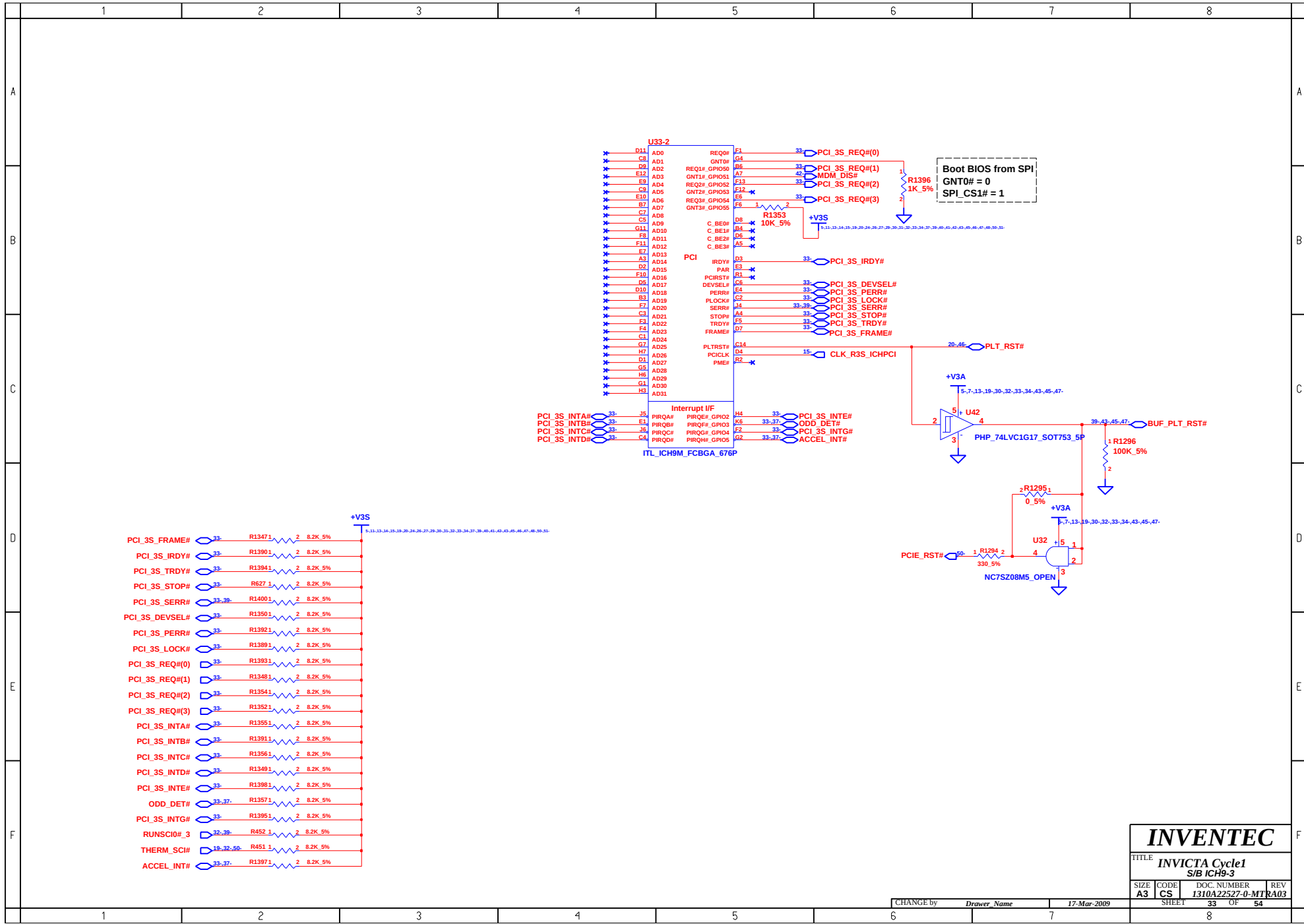


INVENTEC

TITLE			
INVICTA Cycle1			
S/B ICH9-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22527-0-MT	RA03
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CHANGE by *Drawer Name* 17-Mar-2009





INVENTEC

TITLE
**INVICTA Cycle1
S/B ICH9-3**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22527-0-MTR	A03

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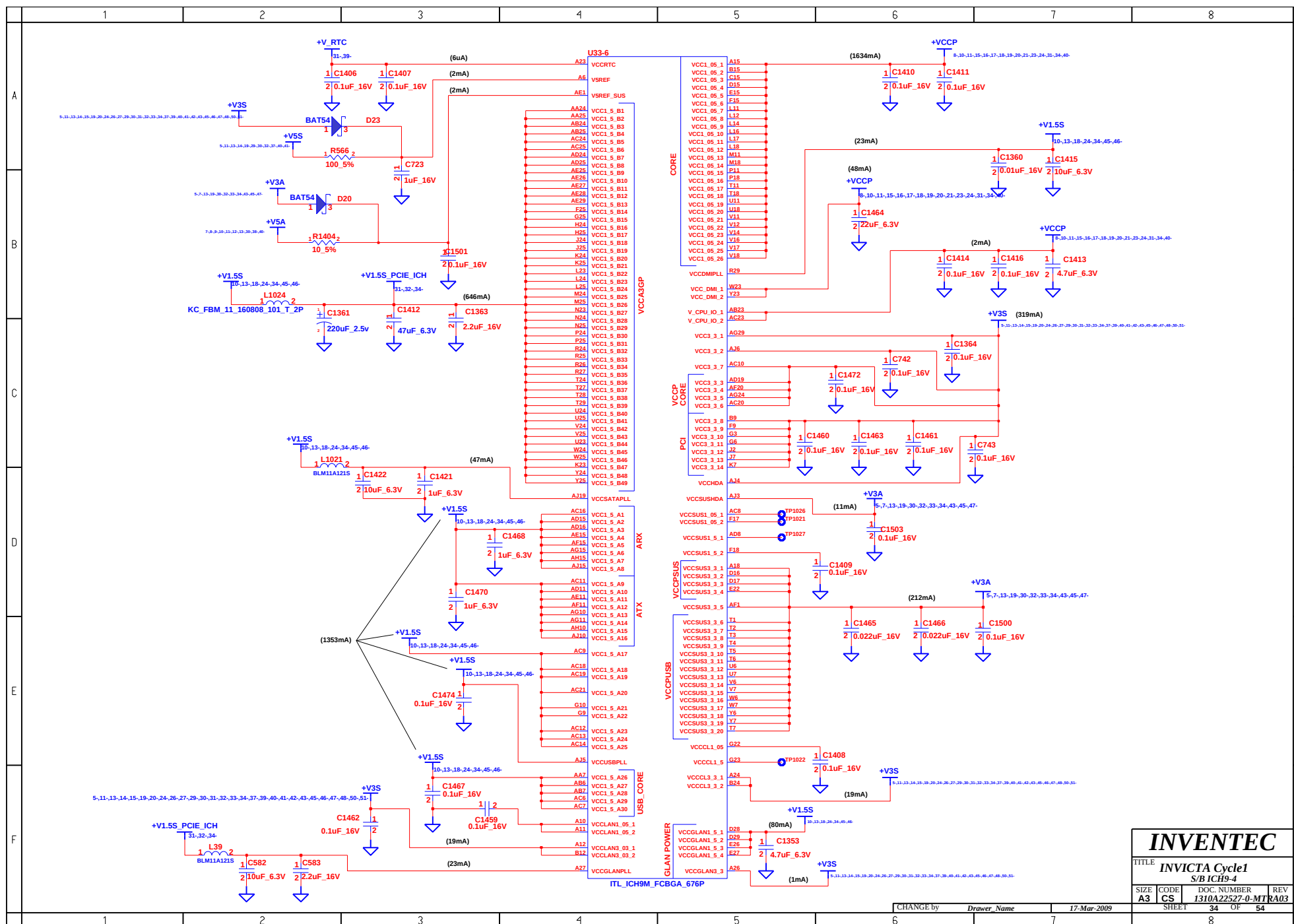


Diagram illustrating the pinout for the INVICTA Cycle1 S/B ICH9-5, showing connections to various components and ground pins.

The diagram is organized into columns labeled 1 through 8, representing different signal groups or components.

Pinout Details:

- Column 1:** AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29, AB4, AB5, AC17, AC26, AC27, AC3, AD1, AD10, AD12, AD13, AD14, AD17, AD18, AD1, AD28, AD29, AD6, AD6, AD7, AD9, AE12, AE13, AE14, AE16, AE17, AE2, AE20, AE24, AE3, AE4, AE6, AE9, AF13, AF16, AF18, AF24, AH26, AF26, AF27, AF5, AF7, AF9, AG11, AG16, AG18, AG20, AG23, AG3, AG6, AG9, AH12, AH14, AH17, AH18, AH5, AH22, AH29, AH26, AH6, AH9, A312, A314, A317, A38, B11, B14, B17, B2, B20, B23, B5, B8, C26, C27, E11, E14, E18, E2, E21, E24, E3, E8, F16, F28, F29, G12, G14, G18, G21, G24, G26, G27, G8, H2, H23, H28, H29.
- Column 2:** VSS001, VSS002, VSS003, VSS004, VSS005, VSS006, VSS007, VSS008, VSS009, VSS010, VSS011, VSS012, VSS013, VSS014, VSS015, VSS016, VSS017, VSS018, VSS019, VSS020, VSS021, VSS022, VSS023, VSS024, VSS025, VSS026, VSS027, VSS028, VSS029, VSS030, VSS031, VSS032, VSS033, VSS034, VSS035, VSS036, VSS037, VSS038, VSS039, VSS040, VSS041, VSS042, VSS043, VSS044, VSS045, VSS046, VSS047, VSS048, VSS049, VSS050, VSS051, VSS052, VSS053, VSS054, VSS055, VSS056, VSS057, VSS058, VSS059, VSS060, VSS061, VSS062, VSS063, VSS064, VSS065, VSS066, VSS067, VSS068, VSS069, VSS070, VSS071, VSS072, VSS073, VSS074, VSS075, VSS076, VSS077, VSS078, VSS079, VSS080, VSS081, VSS082, VSS083, VSS084, VSS085, VSS086, VSS087, VSS088, VSS089, VSS090, VSS091, VSS092, VSS093, VSS094, VSS095, VSS096, VSS097, VSS098, VSS099, VSS100, VSS101, VSS102, VSS103, VSS104, VSS105, VSS106.
- Column 3:** VSS107, VSS108, VSS109, VSS110, VSS111, VSS112, VSS113, VSS114, VSS115, VSS116, VSS117, VSS118, VSS119, VSS120, VSS121, VSS122, VSS123, VSS124, VSS125, VSS126, VSS127, VSS128, VSS129, VSS130, VSS131, VSS132, VSS133, VSS134, VSS135, VSS136, VSS137, VSS138, VSS139, VSS140, VSS141, VSS142, VSS143, VSS144, VSS145, VSS146, VSS147, VSS148, VSS149, VSS150, VSS151, VSS152, VSS153, VSS154, VSS155, VSS156, VSS157, VSS158, VSS159, VSS160, VSS161, VSS162, VSS163, VSS164, VSS165, VSS166, VSS167, VSS168, VSS169, VSS170, VSS171, VSS172, VSS173, VSS174, VSS175, VSS176, VSS177, VSS178, VSS179, VSS180, VSS181, VSS182, VSS183, VSS184, VSS185, VSS186, VSS187, VSS188, VSS189, VSS190, VSS191, VSS192, VSS193, VSS194, VSS195, VSS196, VSS197, VSS198, VSS199, VSS200.
- Column 4:** M5, J23, J26, J27, AC22, K28, K29, L13, L15, L2, L26, L27, L5, L7, M12, M13, M14, M15, M16, M17, M23, M28, M29, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100.
- Column 5:** ICHGND1, ICHGND4, ICHGND7, ICHGND10.

Legend:

- Blue circle with a dot: ICHGND1
- Blue circle with a dot: ICHGND4
- Blue circle with a dot: ICHGND7
- Blue circle with a dot: ICHGND10

Component Labels:

- AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29, AB4, AB5, AC17, AC26, AC27, AC3, AD1, AD10, AD12, AD13, AD14, AD17, AD18, AD1, AD28, AD29, AD6, AD6, AD7, AD9, AE12, AE13, AE14, AE16, AE17, AE2, AE20, AE24, AE3, AE4, AE6, AE9, AF13, AF16, AF18, AF24, AH26, AF26, AF27, AF5, AF7, AF9, AG11, AG16, AG18, AG20, AG23, AG3, AG6, AG9, AH12, AH14, AH17, AH18, AH5, AH22, AH29, AH26, AH6, AH9, A312, A314, A317, A38, B11, B14, B17, B2, B20, B23, B5, B8, C26, C27, E11, E14, E18, E2, E21, E24, E3, E8, F16, F28, F29, G12, G14, G18, G21, G24, G26, G27, G8, H2, H23, H28, H29.

Ground Pins:

- ICHGND1
- ICHGND4
- ICHGND7
- ICHGND10

Component Labels:

- AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29, AB4, AB5, AC17, AC26, AC27, AC3, AD1, AD10, AD12, AD13, AD14, AD17, AD18, AD1, AD28, AD29, AD6, AD6, AD7, AD9, AE12, AE13, AE14, AE16, AE17, AE2, AE20, AE24, AE3, AE4, AE6, AE9, AF13, AF16, AF18, AF24, AH26, AF26, AF27, AF5, AF7, AF9, AG11, AG16, AG18, AG20, AG23, AG3, AG6, AG9, AH12, AH14, AH17, AH18, AH5, AH22, AH29, AH26, AH6, AH9, A312, A314, A317, A38, B11, B14, B17, B2, B20, B23, B5, B8, C26, C27, E11, E14, E18, E2, E21, E24, E3, E8, F16, F28, F29, G12, G14, G18, G21, G24, G26, G27, G8, H2, H23, H28, H29.

Ground Pins:

- ICHGND1
- ICHGND4
- ICHGND7
- ICHGND10

Component Labels:

- AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29, AB4, AB5, AC17, AC26, AC27, AC3, AD1, AD10, AD12, AD13, AD14, AD17, AD18, AD1, AD28, AD29, AD6, AD6, AD7, AD9, AE12, AE13, AE14, AE16, AE17, AE2, AE20, AE24, AE3, AE4, AE6, AE9, AF13, AF16, AF18, AF24, AH26, AF26, AF27, AF5, AF7, AF9, AG11, AG16, AG18, AG20, AG23, AG3, AG6, AG9, AH12, AH14, AH17, AH18, AH5, AH22, AH29, AH26, AH6, AH9, A312, A314, A317, A38, B11, B14, B17, B2, B20, B23, B5, B8, C26, C27, E11, E14, E18, E2, E21, E24, E3, E8, F16, F28, F29, G12, G14, G18, G21, G24, G26, G27, G8, H2, H23, H28, H29.

Ground Pins:

- ICHGND1
- ICHGND4
- ICHGND7
- ICHGND10

Component Labels:

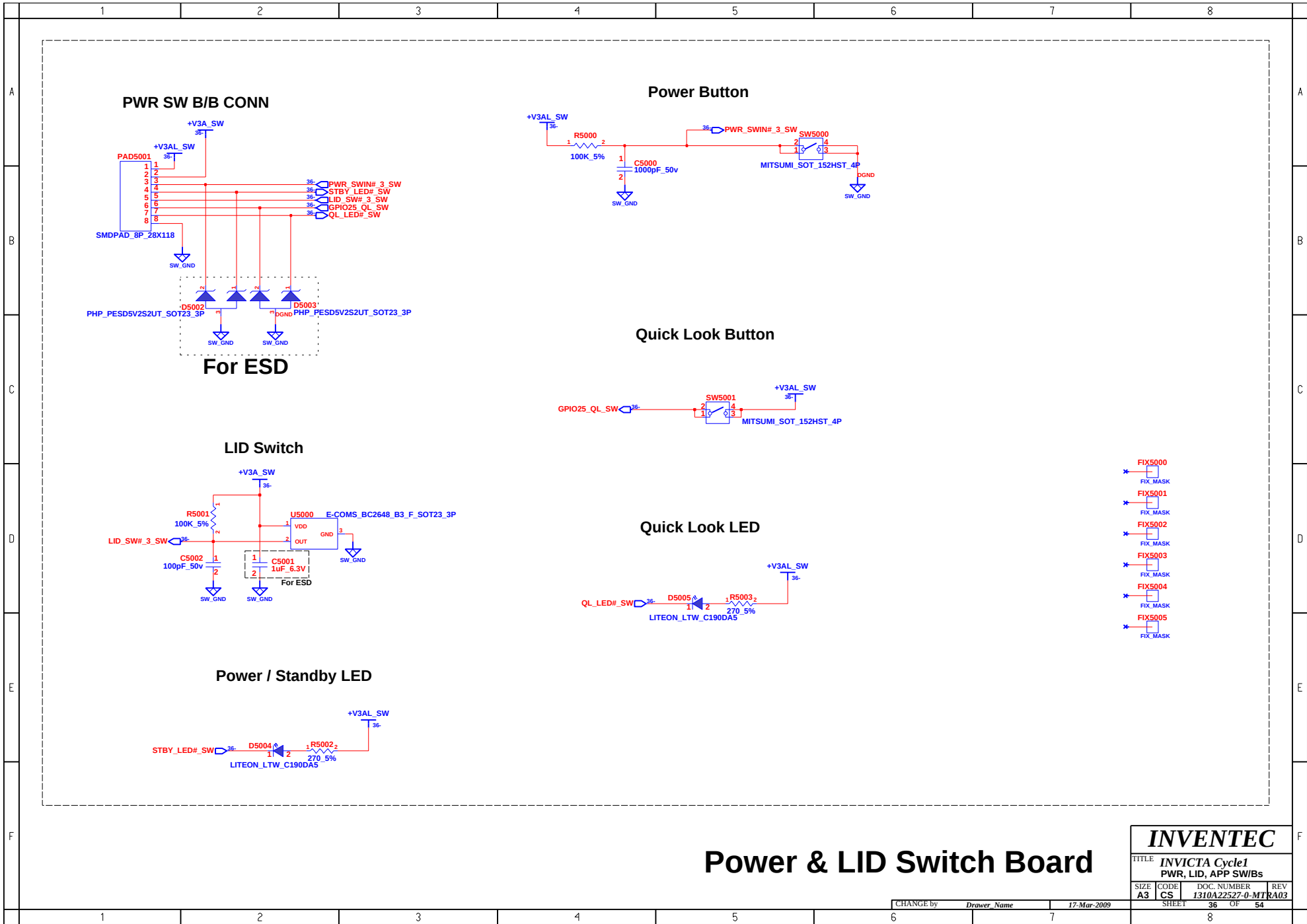
- AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29, AB4, AB5, AC17, AC26, AC27, AC3, AD1, AD10, AD12, AD13, AD14, AD17, AD18, AD1, AD28, AD29, AD6, AD6, AD7, AD9, AE12, AE13, AE14, AE16, AE17, AE2, AE20, AE24, AE3, AE4, AE6, AE9, AF13, AF16, AF18, AF24, AH26, AF26, AF27, AF5, AF7, AF9, AG11, AG16, AG18, AG20, AG23, AG3, AG6, AG9, AH12, AH14, AH17, AH18, AH5, AH22, AH29, AH26, AH6, AH9, A312, A314, A317, A38, B11, B14, B17, B2, B20, B23, B5, B8, C26, C27, E11, E14, E18, E2, E21, E24, E3, E8, F16, F28, F29, G12, G14, G18, G21, G24, G26, G27, G8, H2, H23, H28, H29.

Ground Pins:

- ICHGND1
- ICHGND4
- ICHGND7
- ICHGND10

Component Labels:

- AA26, AA27, AA3, AA6, AB1, AB2, AB26, AB29,

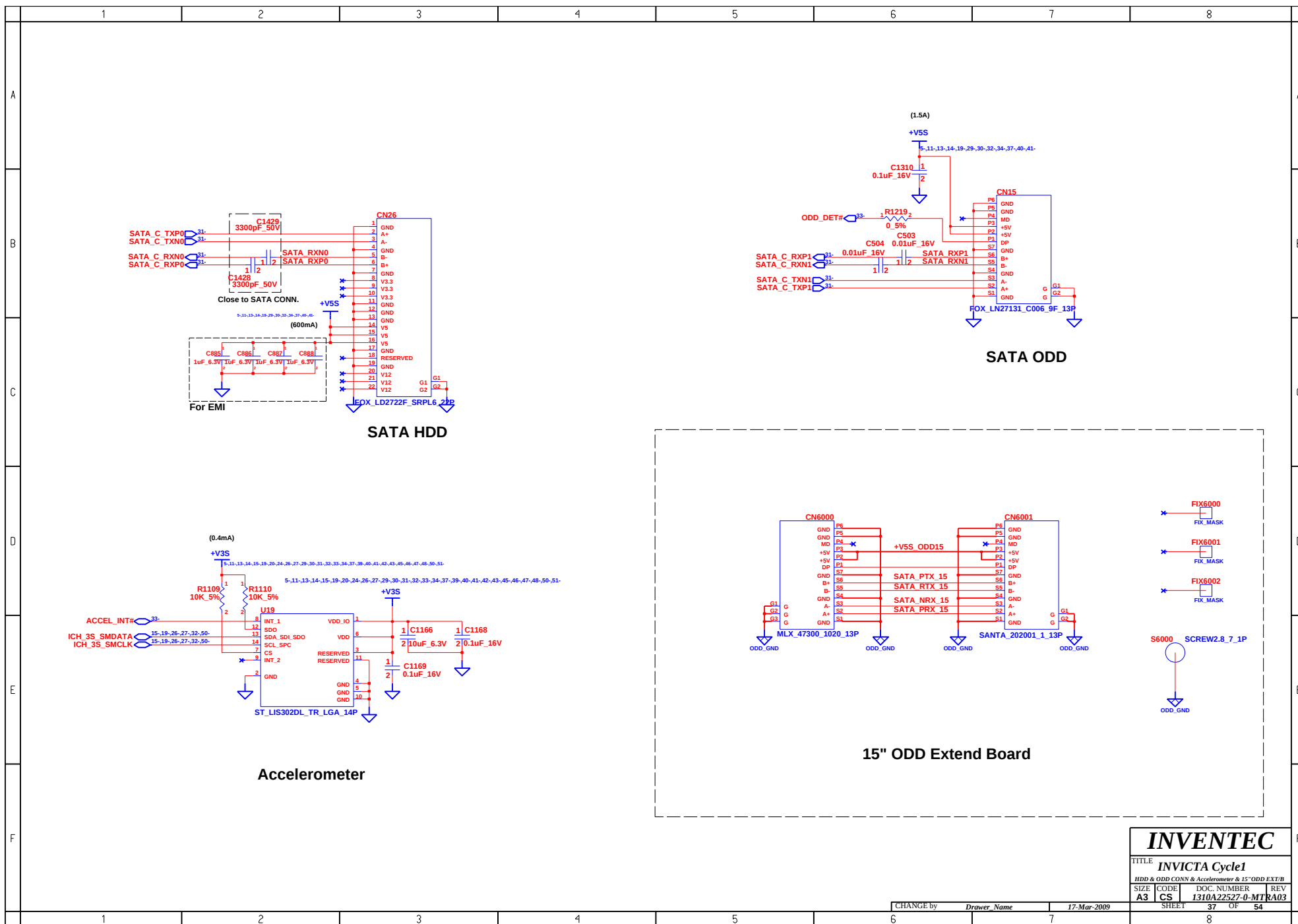


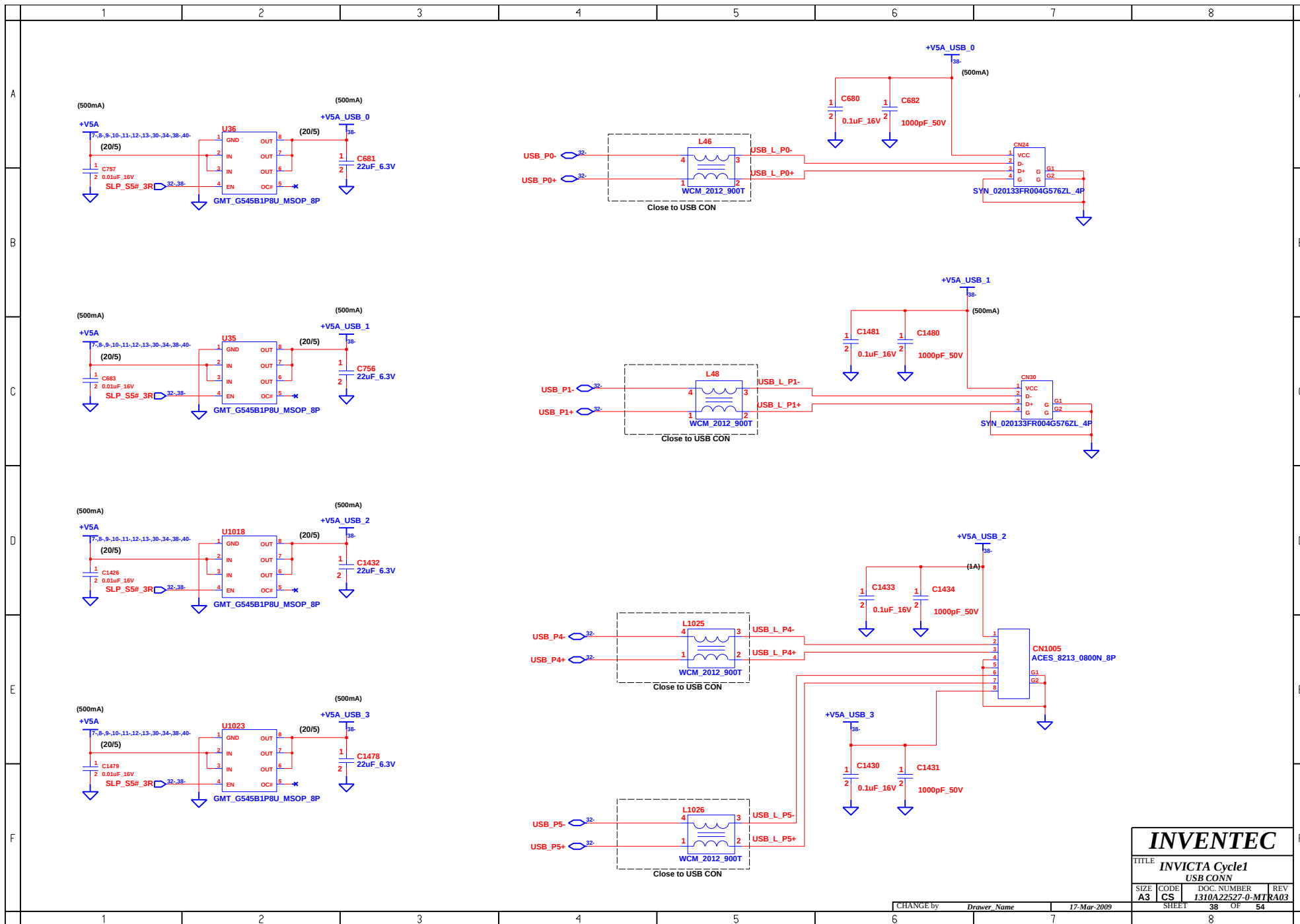
Power & LID Switch Board

INVENTEC

TITLE			INVICTA Cycle1
			PWR, LID, APP SW/BS
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22527-0-MTR	A03
SHEET		36	OF 54

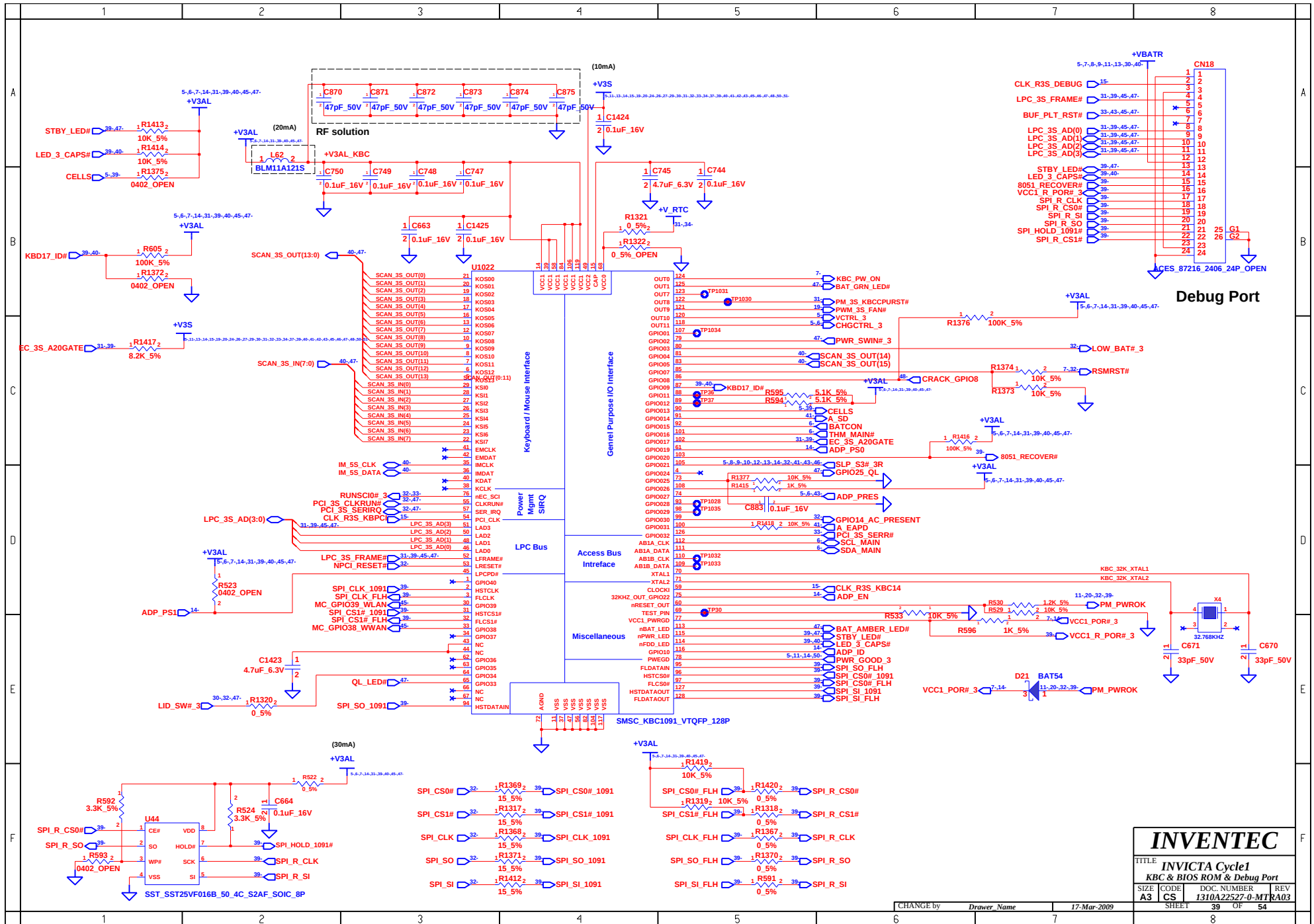
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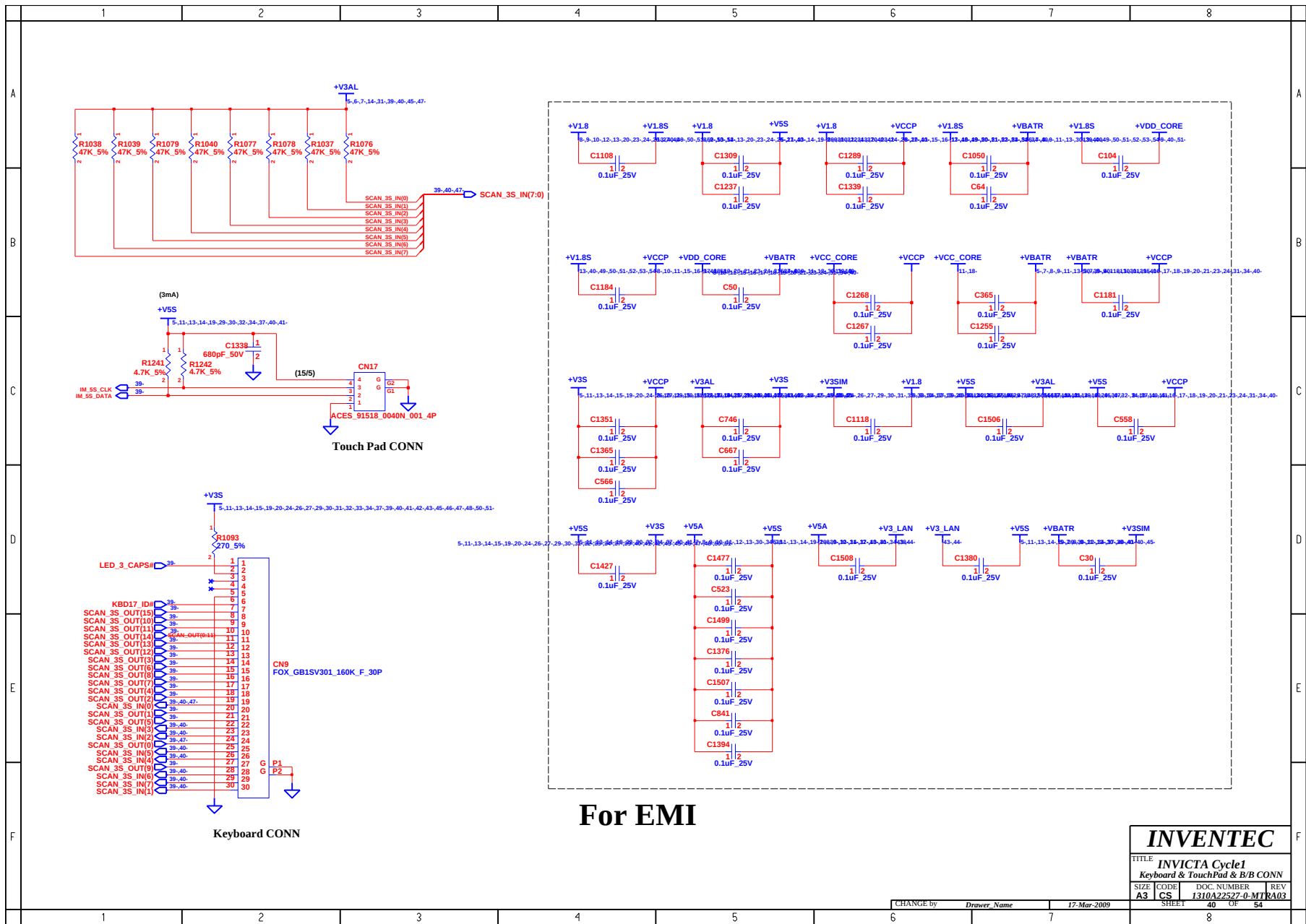


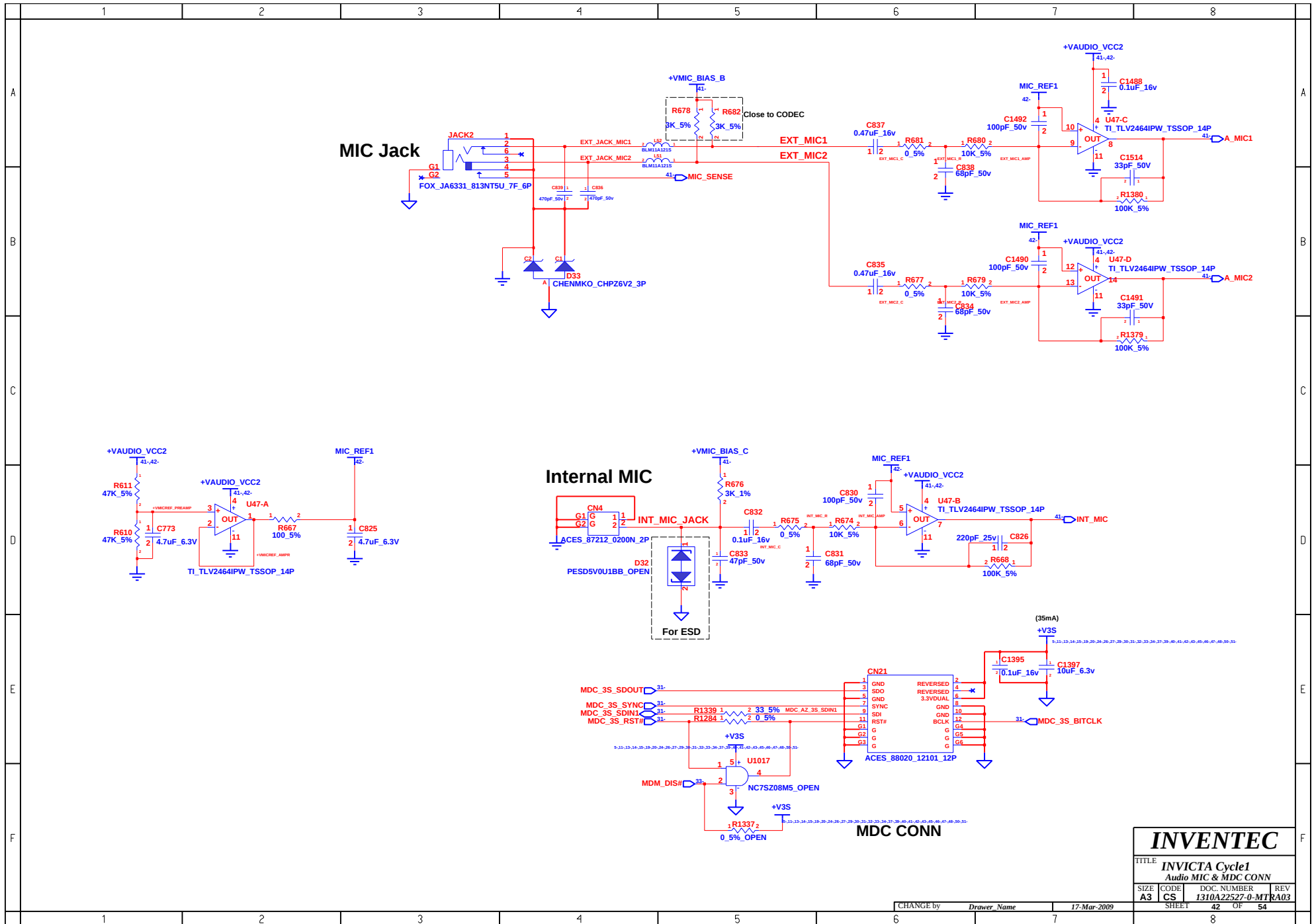


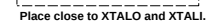
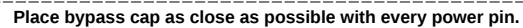
INVENTEC			
TITLE INVICTA Cycle1 USB CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A22527-0-MTR	REV A03
SHEET 38		OF 54	

CHANGE by Drawer Name 17-Mar-2009



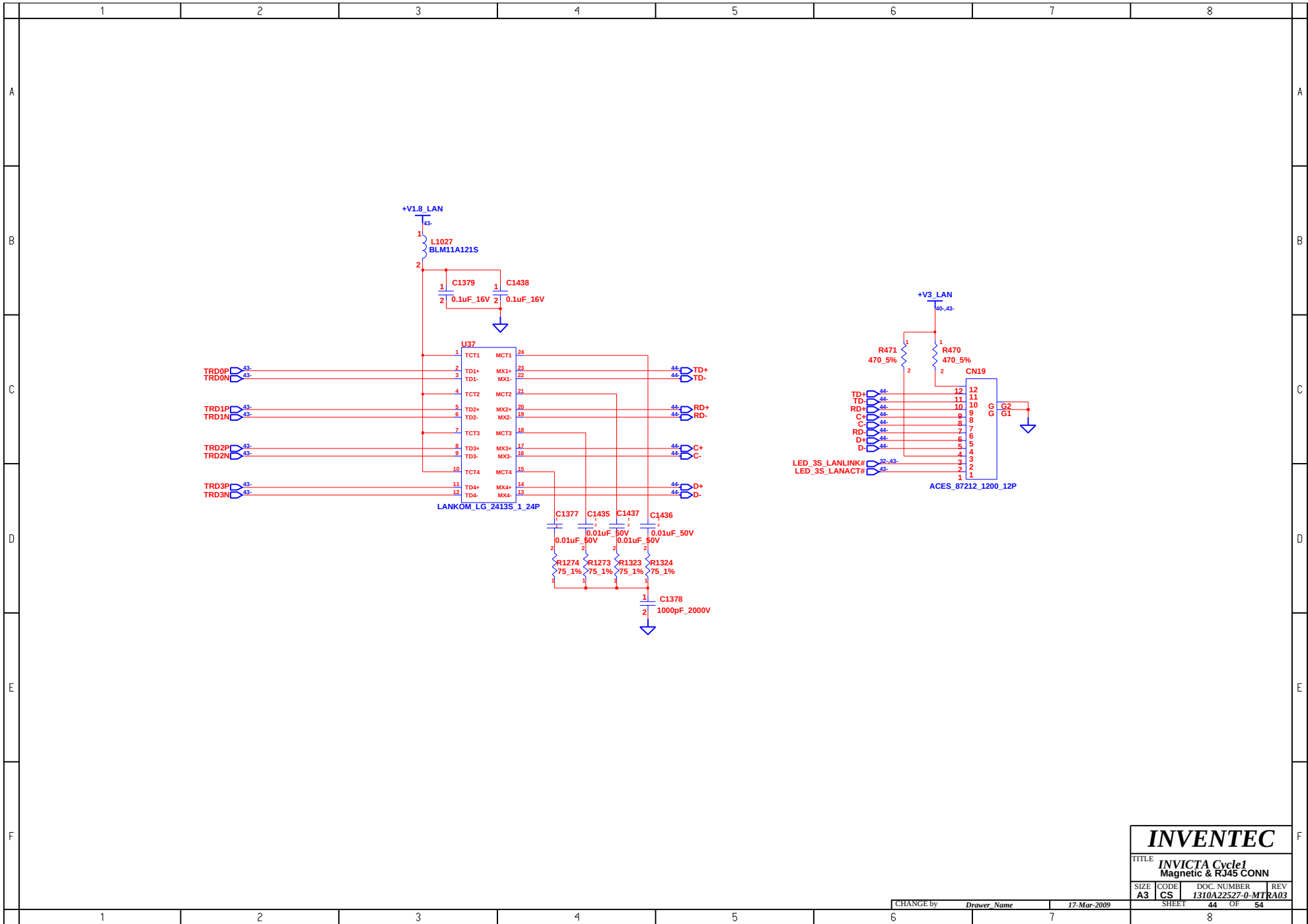






SIZE A3	CODE CS	DOC. NUMBER 1310A22527-0-MT	REV RA03
SHEET		43	OF 54

CS 1310A22527-0-MTH
SHEET 43 OF 54



INVENTEC

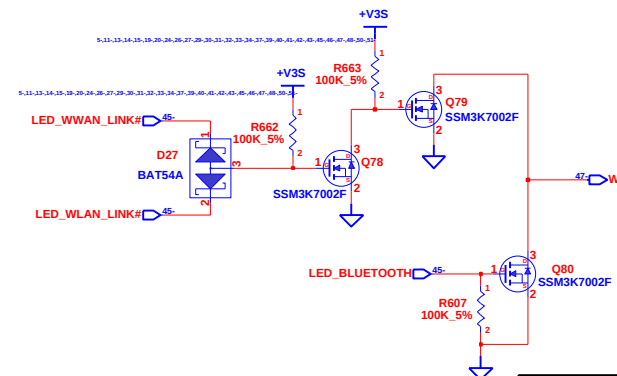
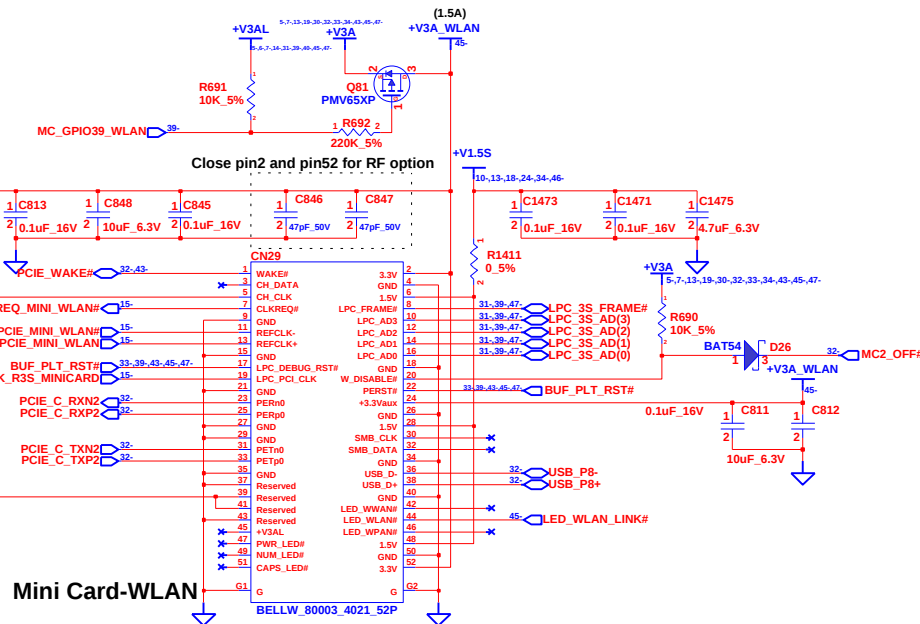
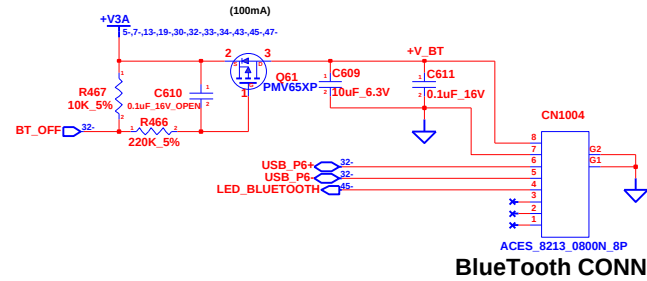
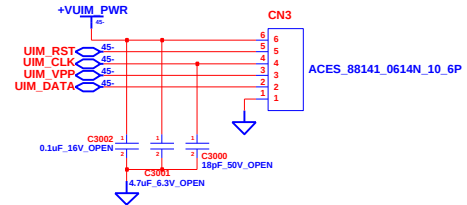
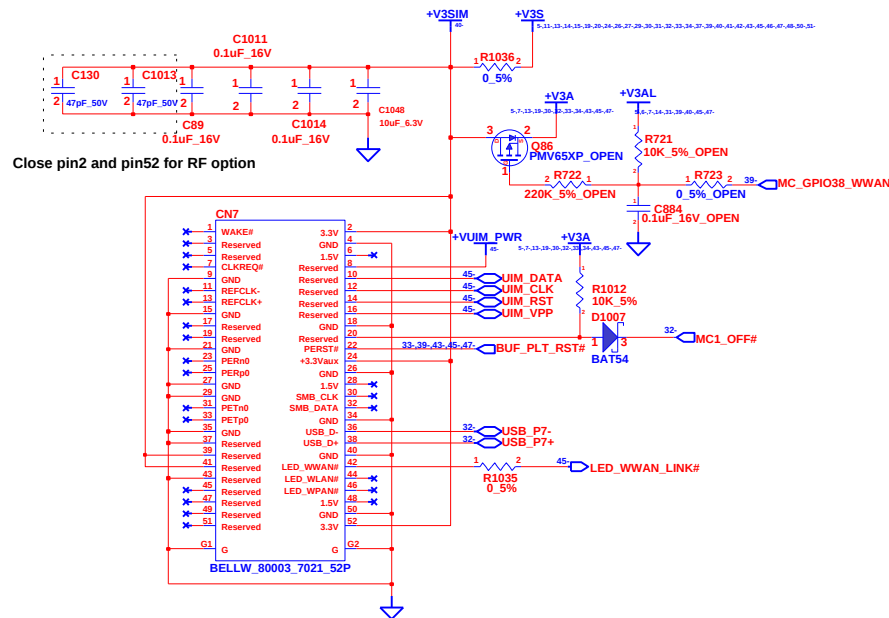
TITLE
**INVICTA Cycle1
Magnetic & RJ45 CONN**

SIZE A3	CODE CS	DOC. NUMBER 1310AZ2527-0-MTR	REV A03
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CHANGE by *Drawn Name* 17-Mar-2009

SHEET 44 OF 54

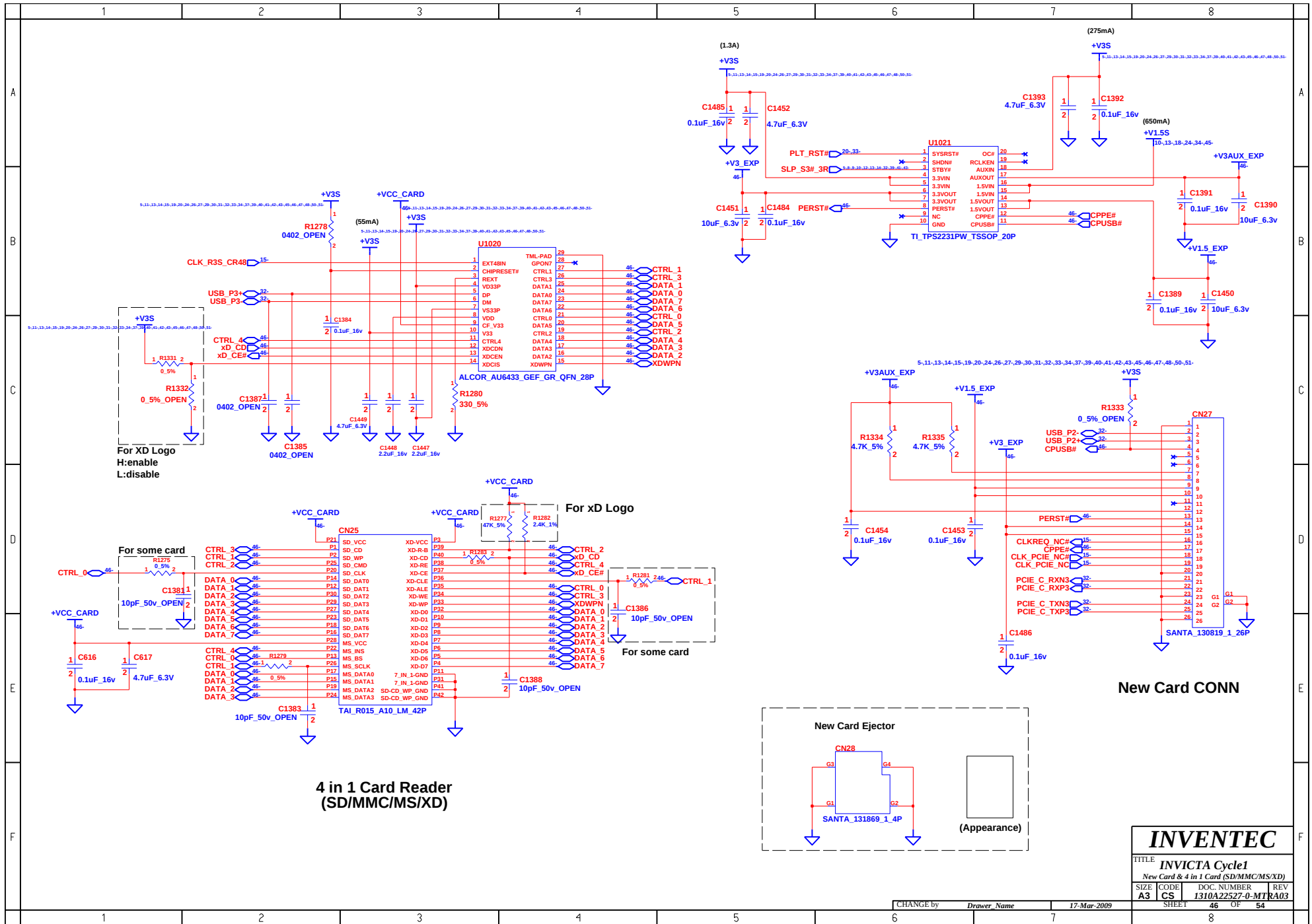
MINI Card-WWAN

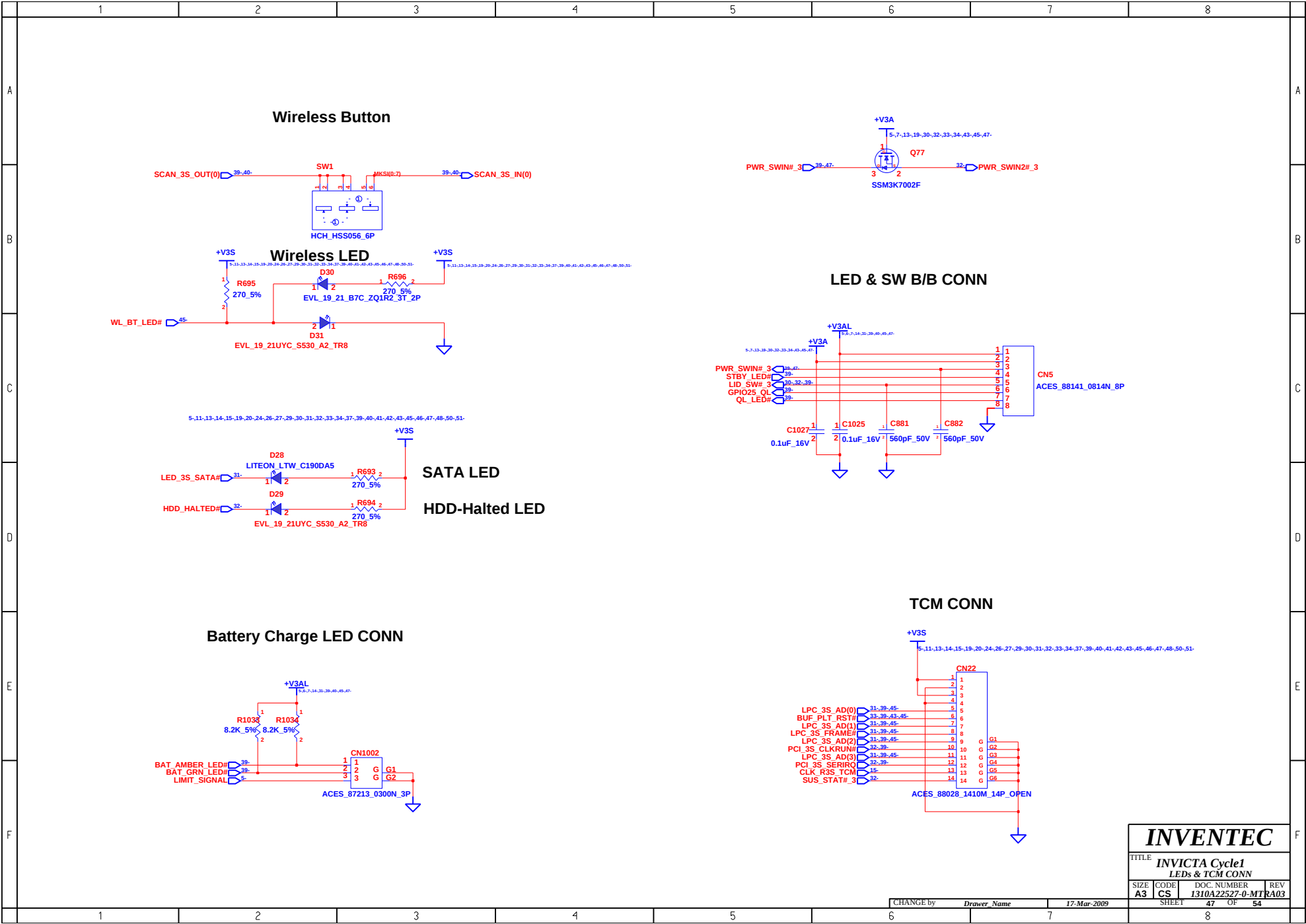


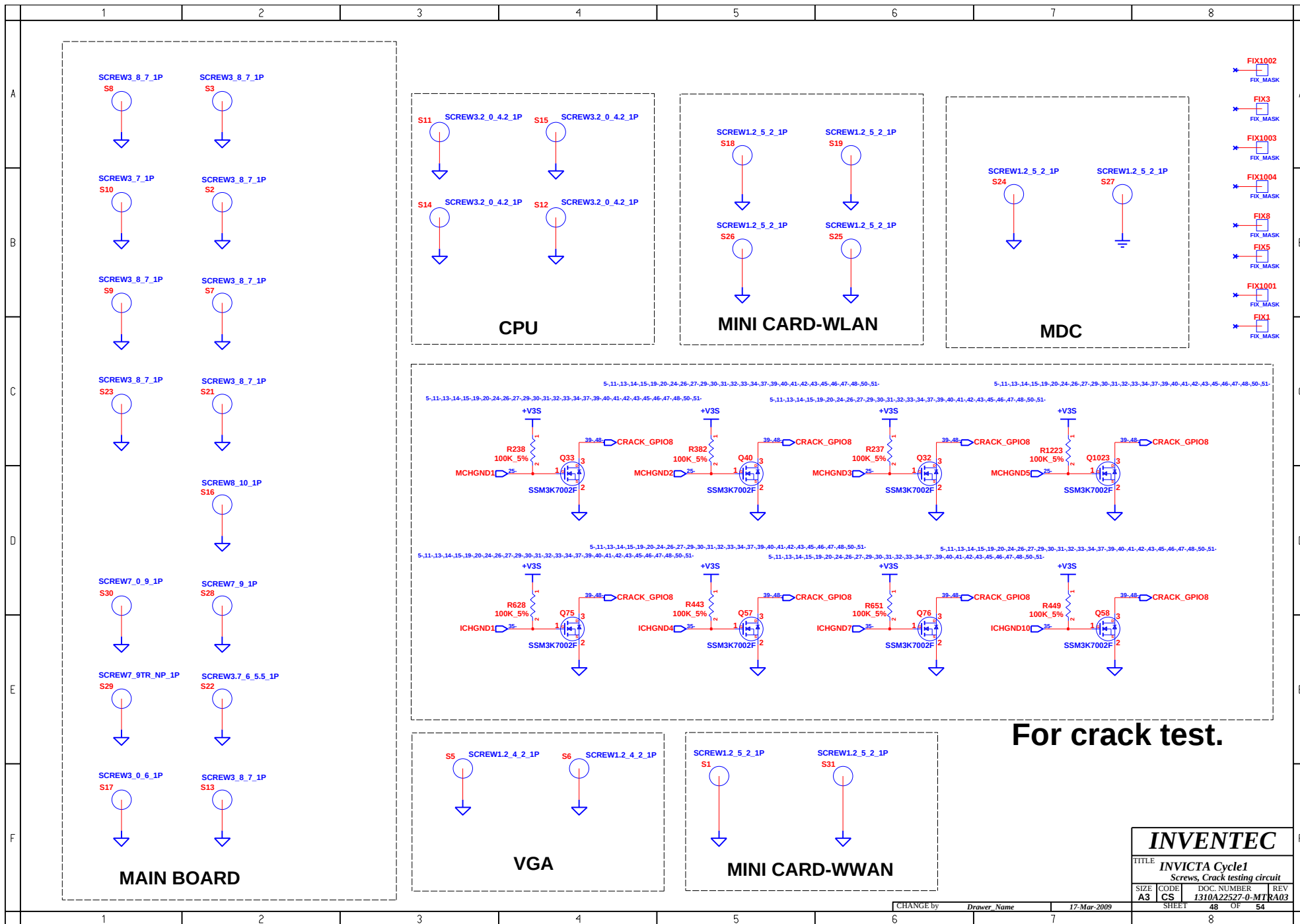
INVENTEC

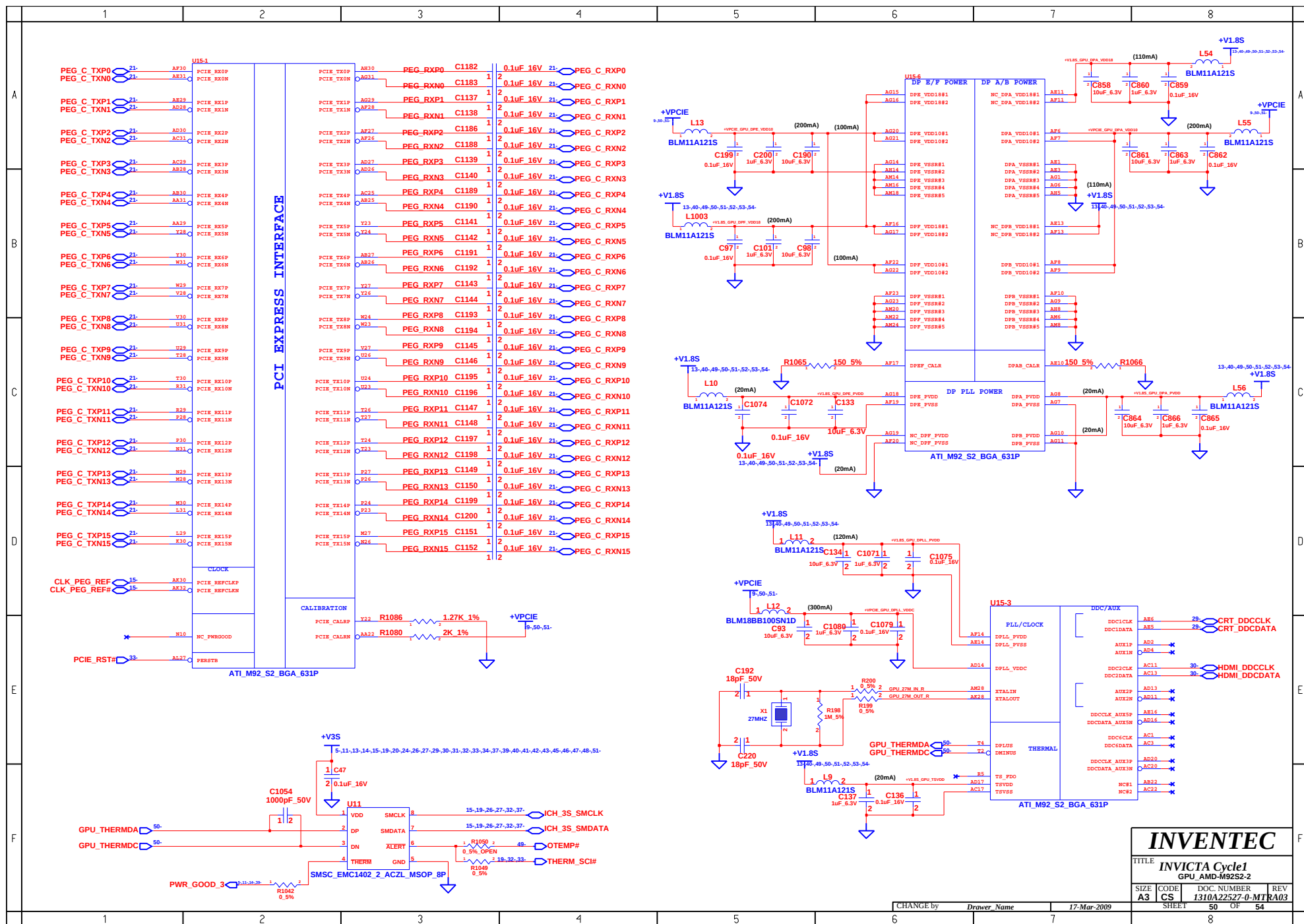
TITLE INVICTA Cycle1 Mini Card (WLAN/WWAN) / BT			
SIZE A3	CODE CS	DOC. NUMBER I310A22527-0-MTR	REV A03
SHEET 45		OF 54	

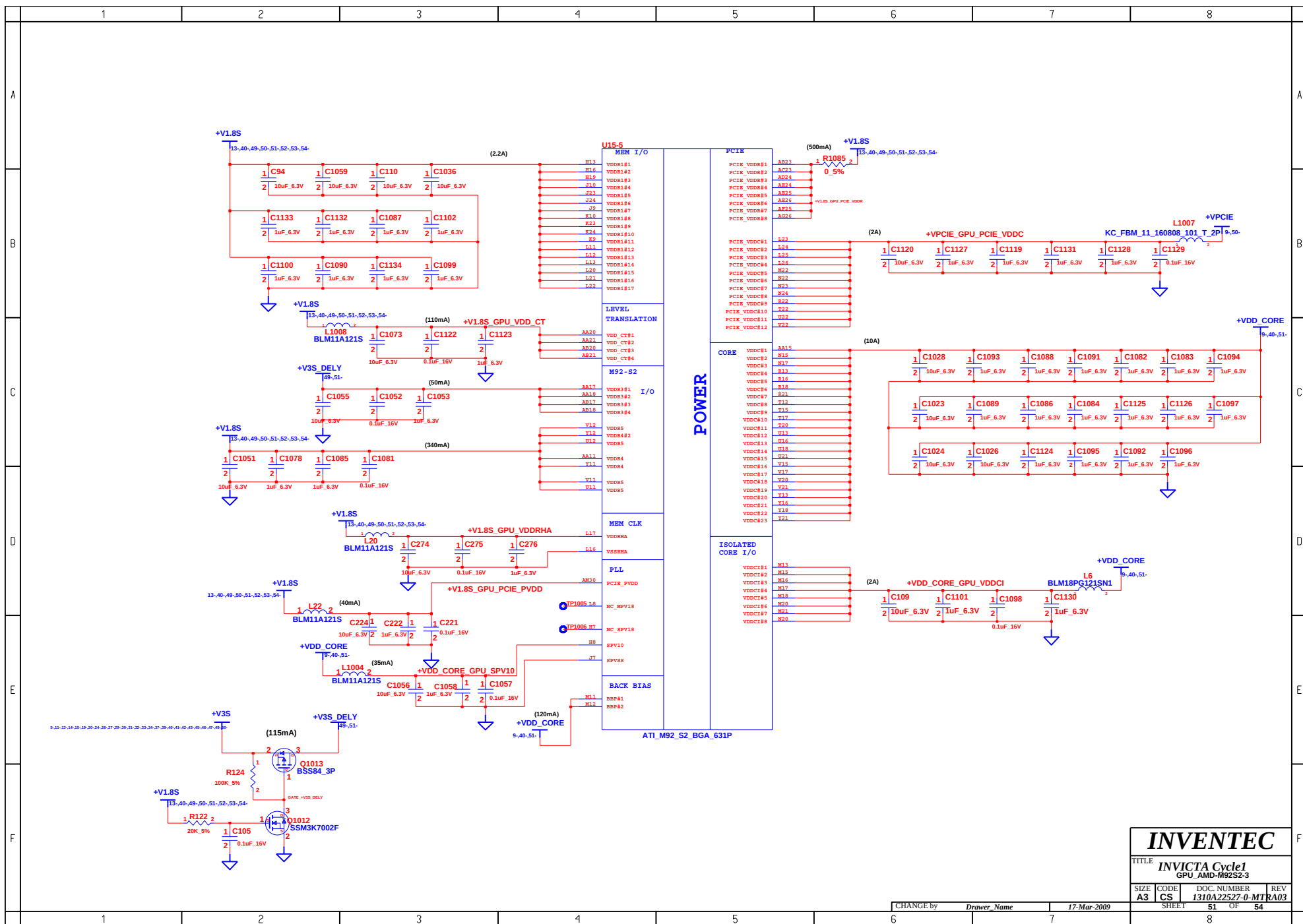
CHANGE by *Drawn Name* 17-Mar-2009

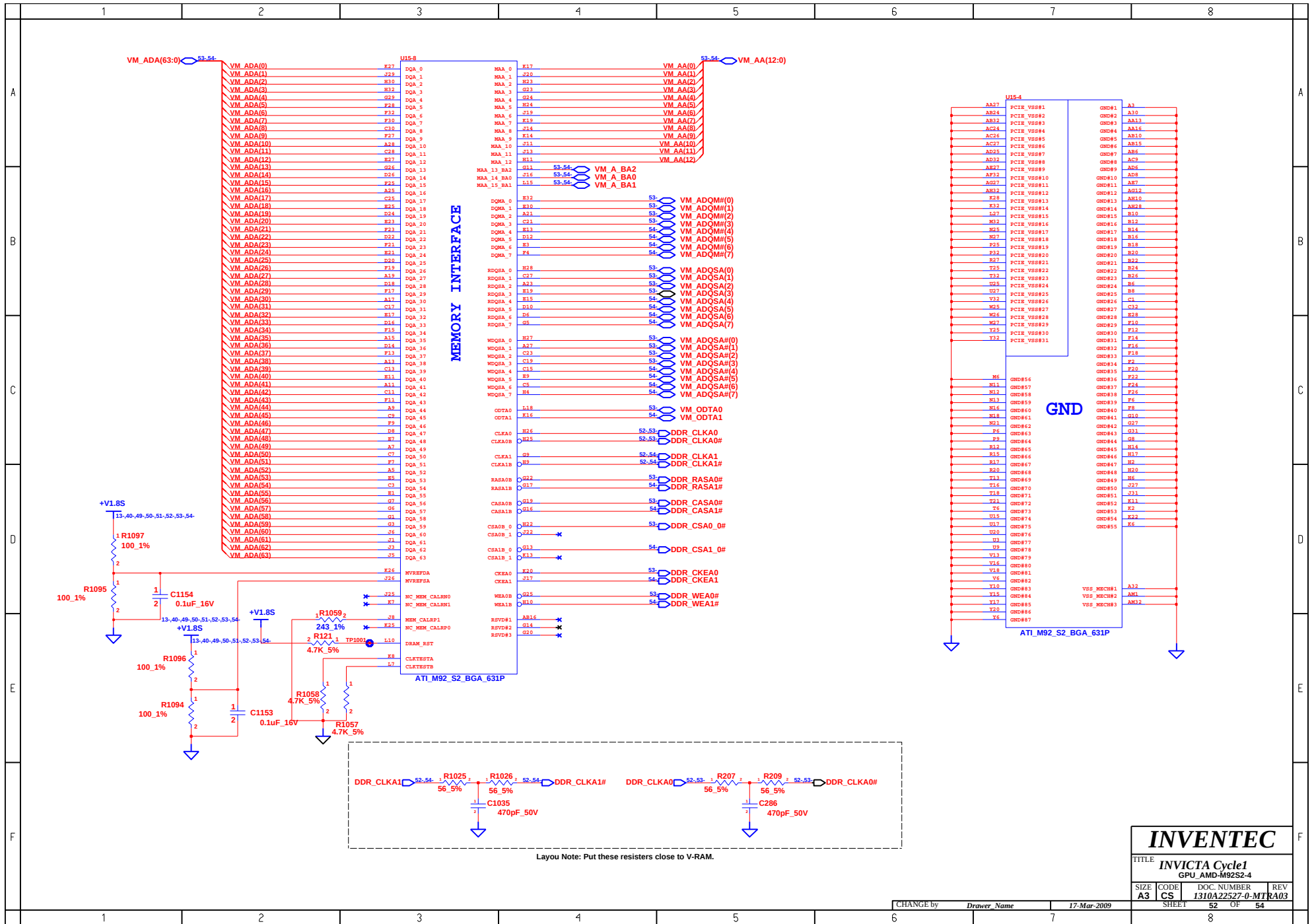












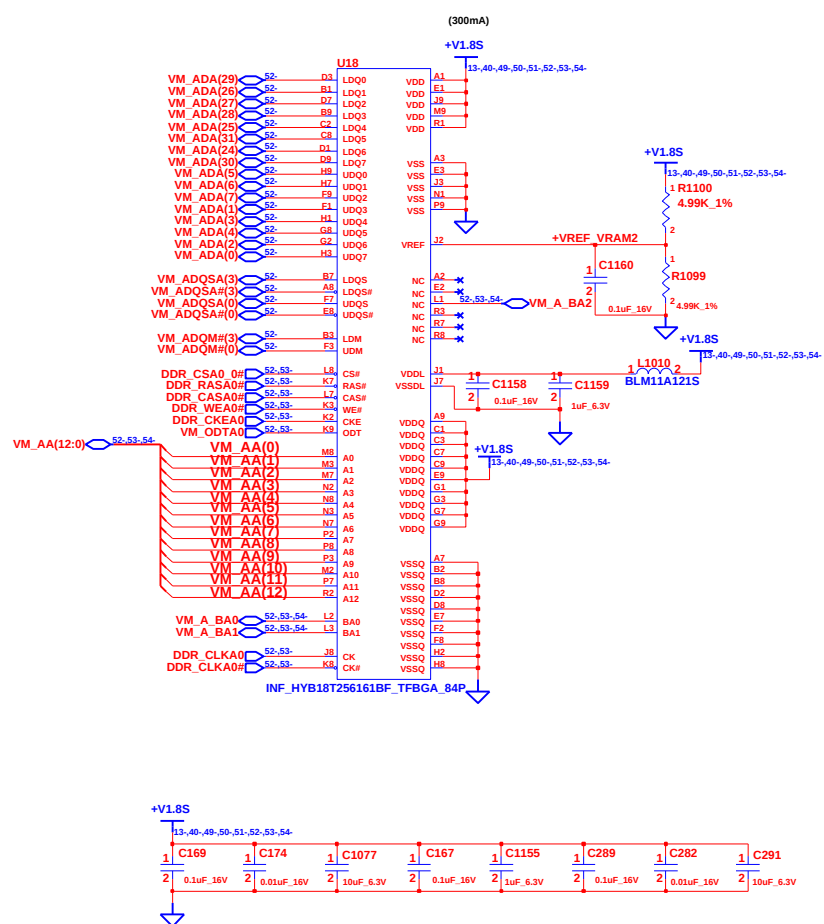
INVENTEC

TITLE
INVICTA Cycle1
GPU_AMD-M92S2-4

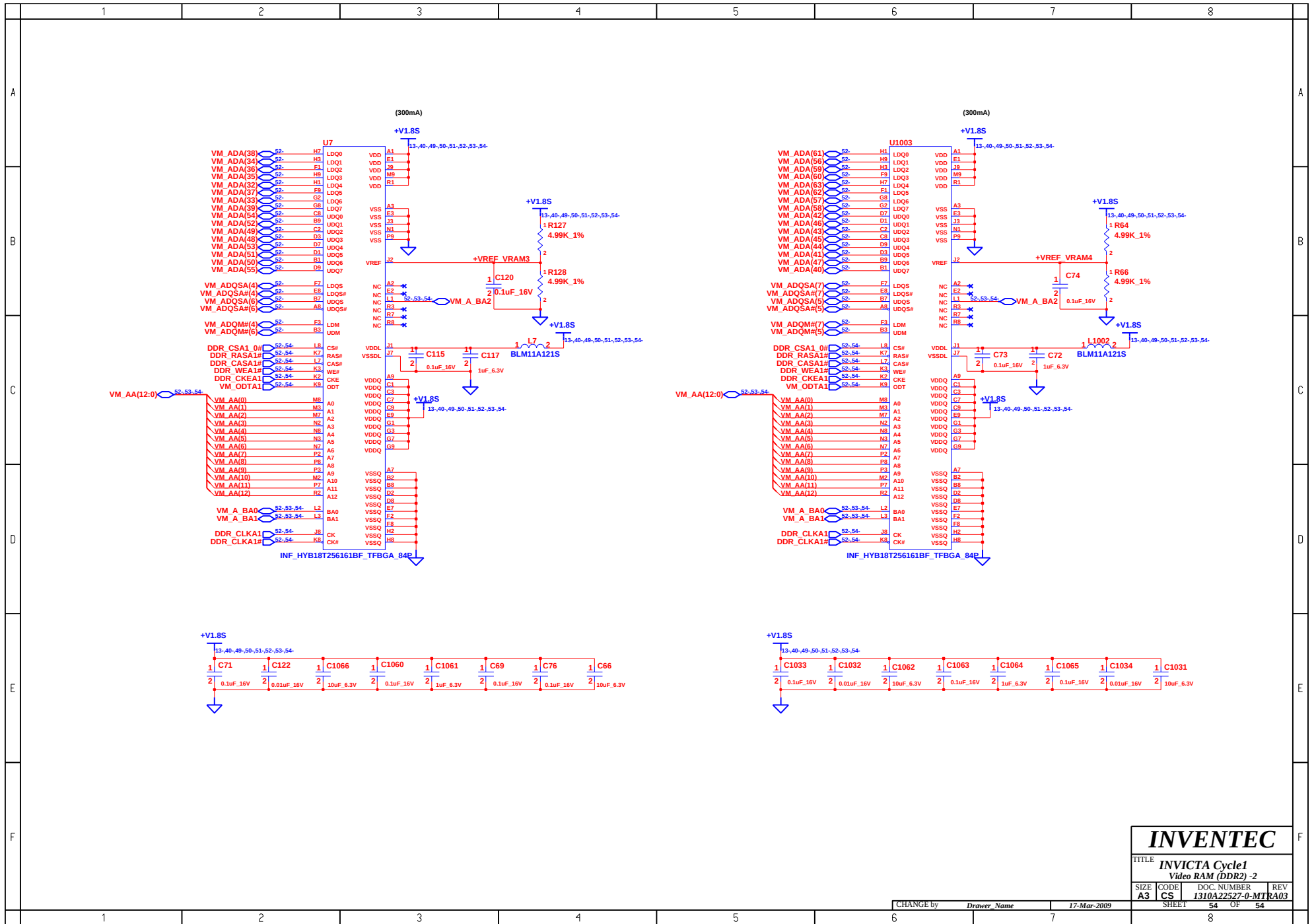
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ2527-0-MT	RA03

CHANGE by *Drawn Name* 17-Mar-2009

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CHANGE by	<i>Drawer Name</i>	17-Mar-2009
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INVENTEC

TITLE			
INVICTA Cycle1			
Video RAM (DDR2) -2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22527-0-MT	RA03
SHEET		54	OF 54

CHANGE by Drawer Name 17-Mar-2009