

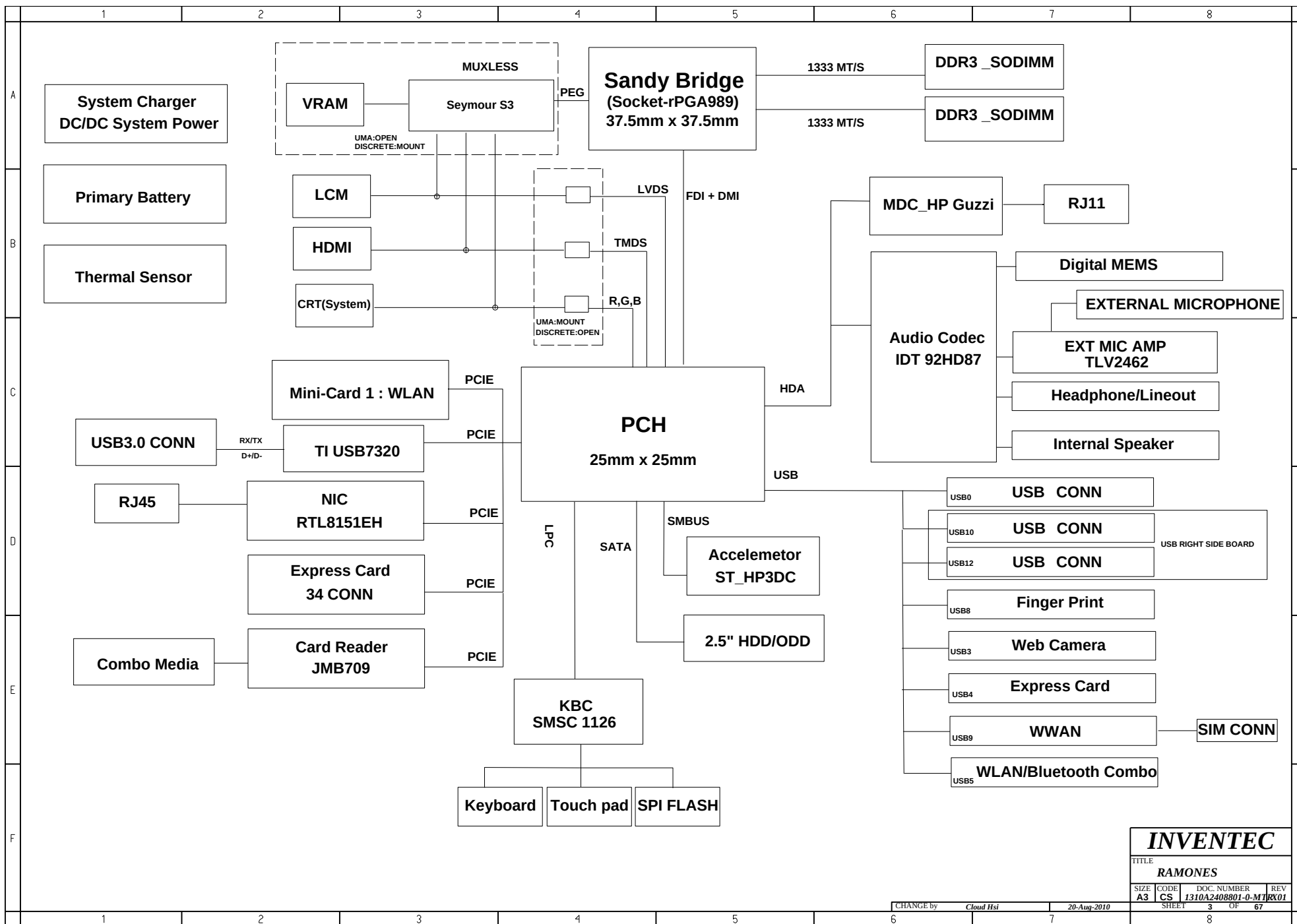
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B																																																																																						
C	RAMONES DB BUILD 2010.08.30																																																																																					
D																																																																																						
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>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>SIZE =</td><td colspan="3">3</td><td>VER :</td></tr><tr><td>FILE NAME :</td><td colspan="4">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">INVENTEC</td></tr><tr><td colspan="4">TITLE RAMONES</td></tr><tr><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER 1310A2408801-0-M</td><td>REV T001</td></tr><tr><td colspan="2">SHEET 1</td><td colspan="2">OF 67</td></tr></table>	INVENTEC				TITLE RAMONES				SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M	REV T001	SHEET 1		OF 67	
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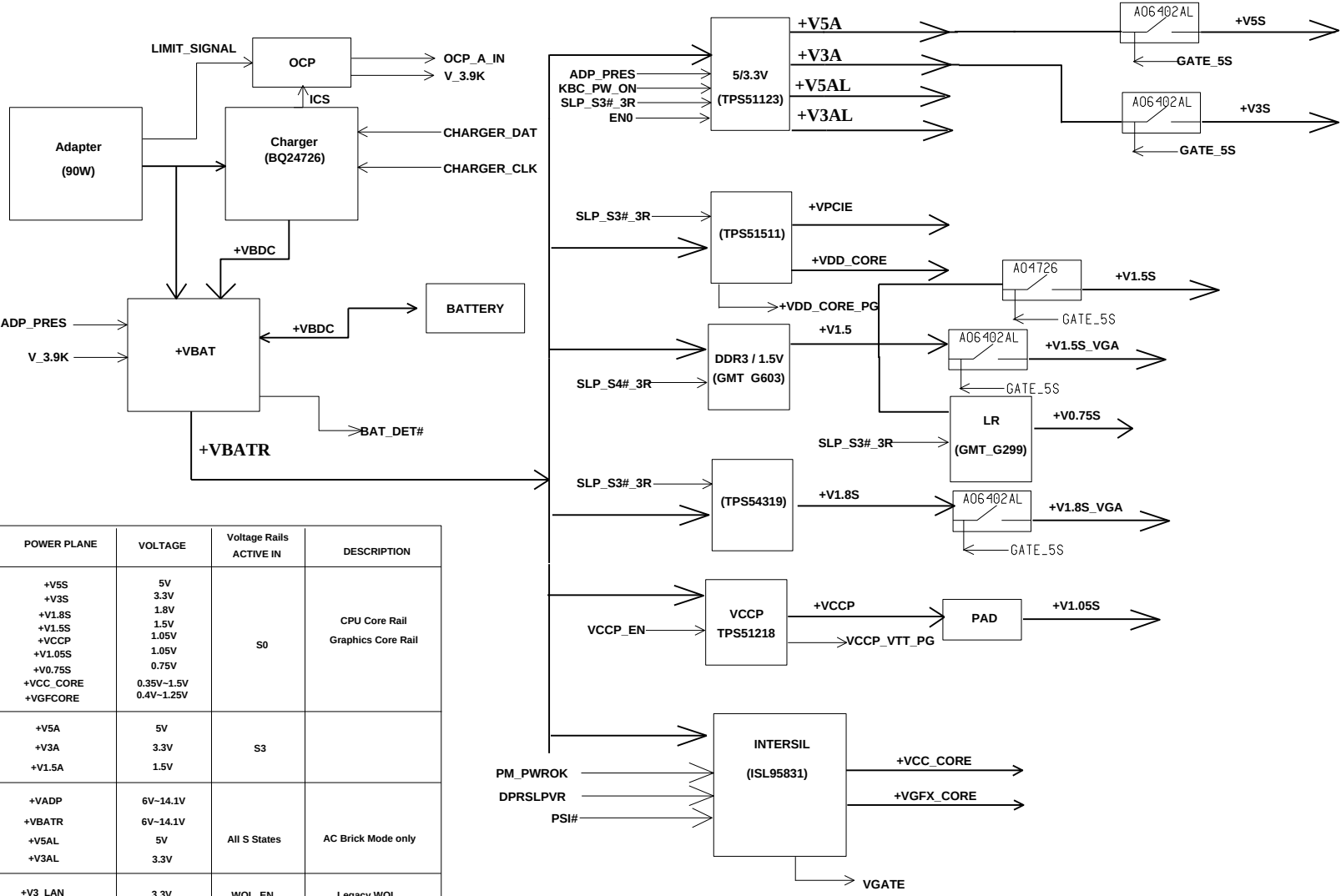
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TITLE
RAMONES

SIZE	CODE	DOC. NUMBER	REV
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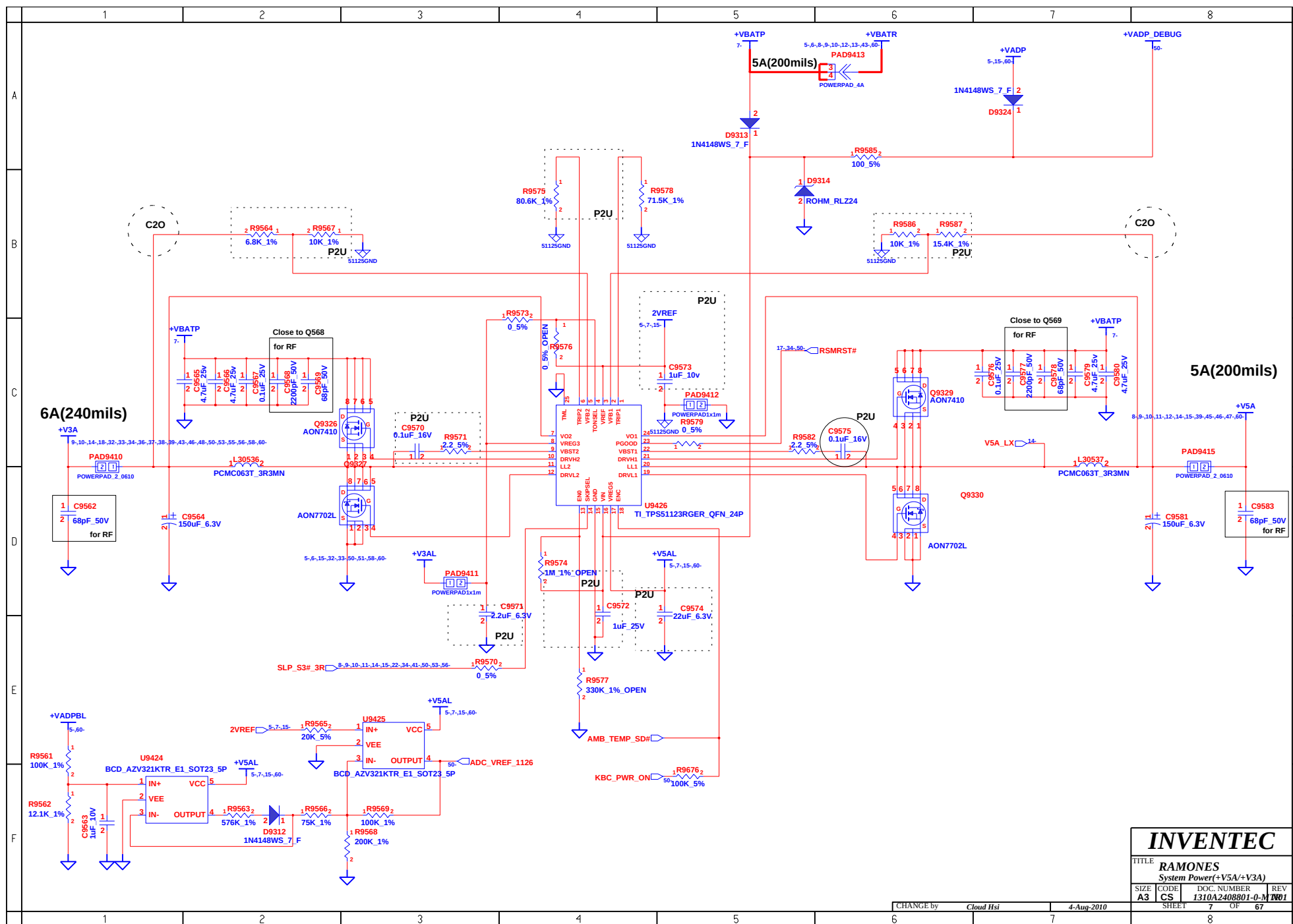
POWER PLANE	VOLTAGE	Voltage Rails ACTIVE IN	DESCRIPTION
+V5S +V3S +V1.8S +V1.5S +VCCP +V1.05S +V0.75S +VCC_CORE +VGFCORE	5V 3.3V 1.8V 1.5V 1.05V 1.05V 0.75V 0.35V~1.5V 0.4V~1.25V	S0	CPU Core Rail Graphics Core Rail
+V5A +V3A +V1.5A	5V 3.3V 1.5V	S3	
+VADP +VBATR +V5AL +V3AL	6V~14.1V 6V~14.1V 5V 3.3V	All S States	AC Brick Mode only
+V3_LAN	3.3V	WOL_EN	Legacy WOL
RTC	3.3V	G3 , Sx	Power by Li Coin Cell in G3 and +V3AL in Sx

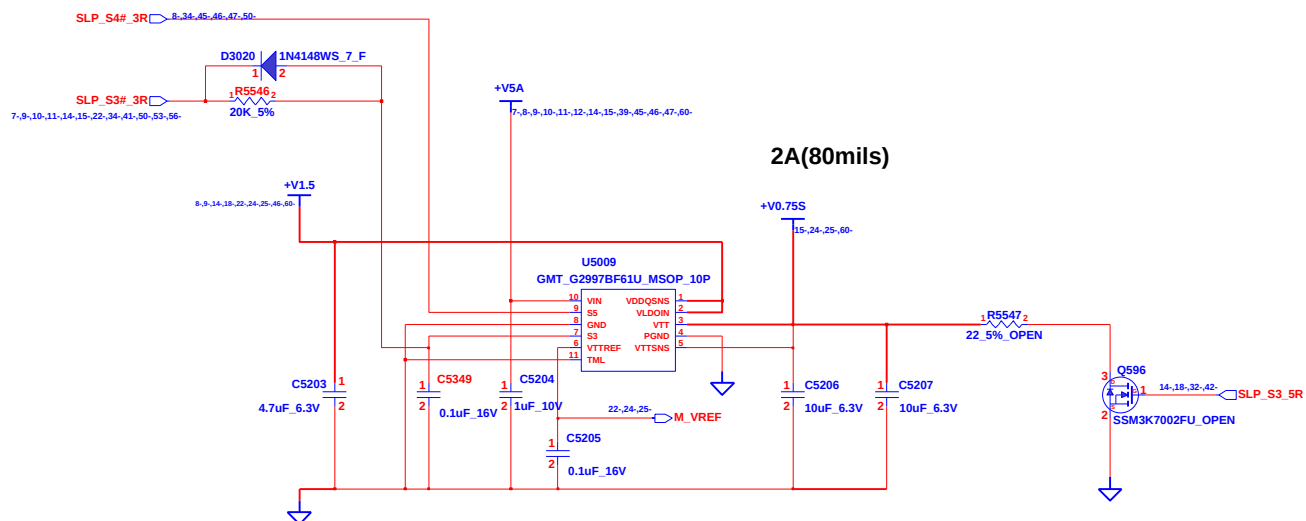
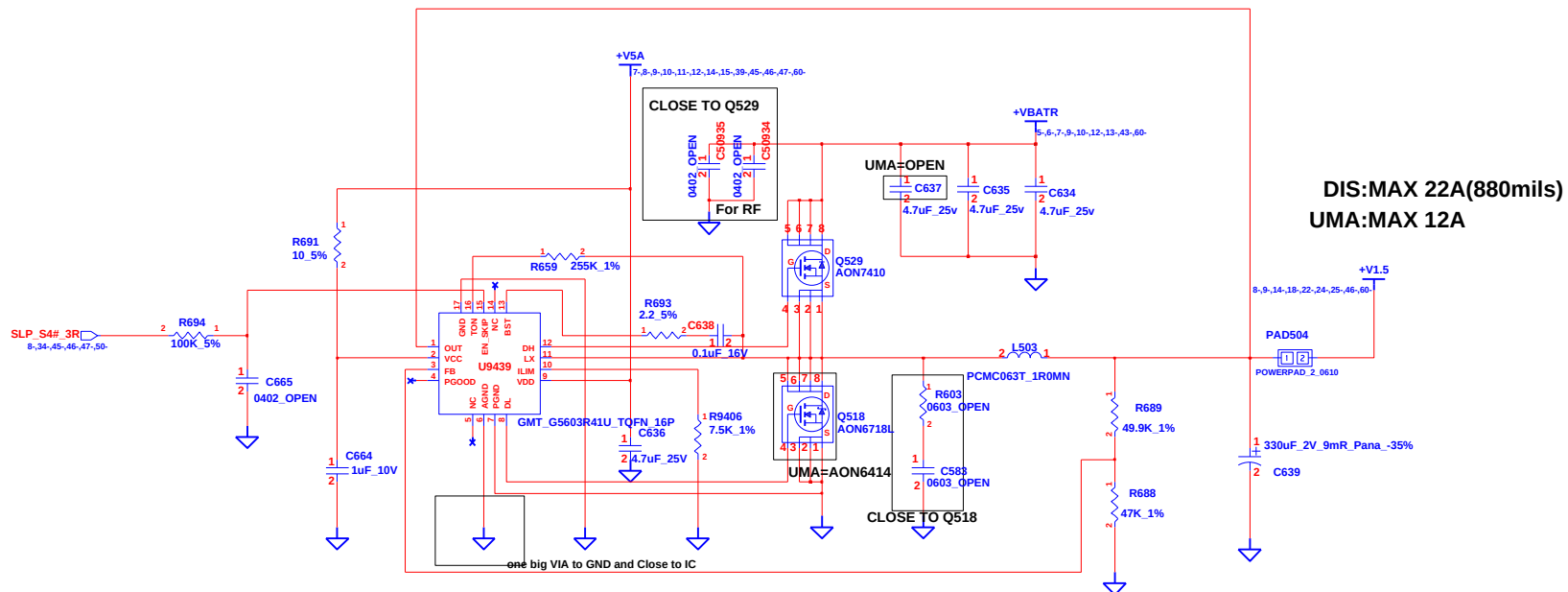
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TITLE
RAMONES

SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
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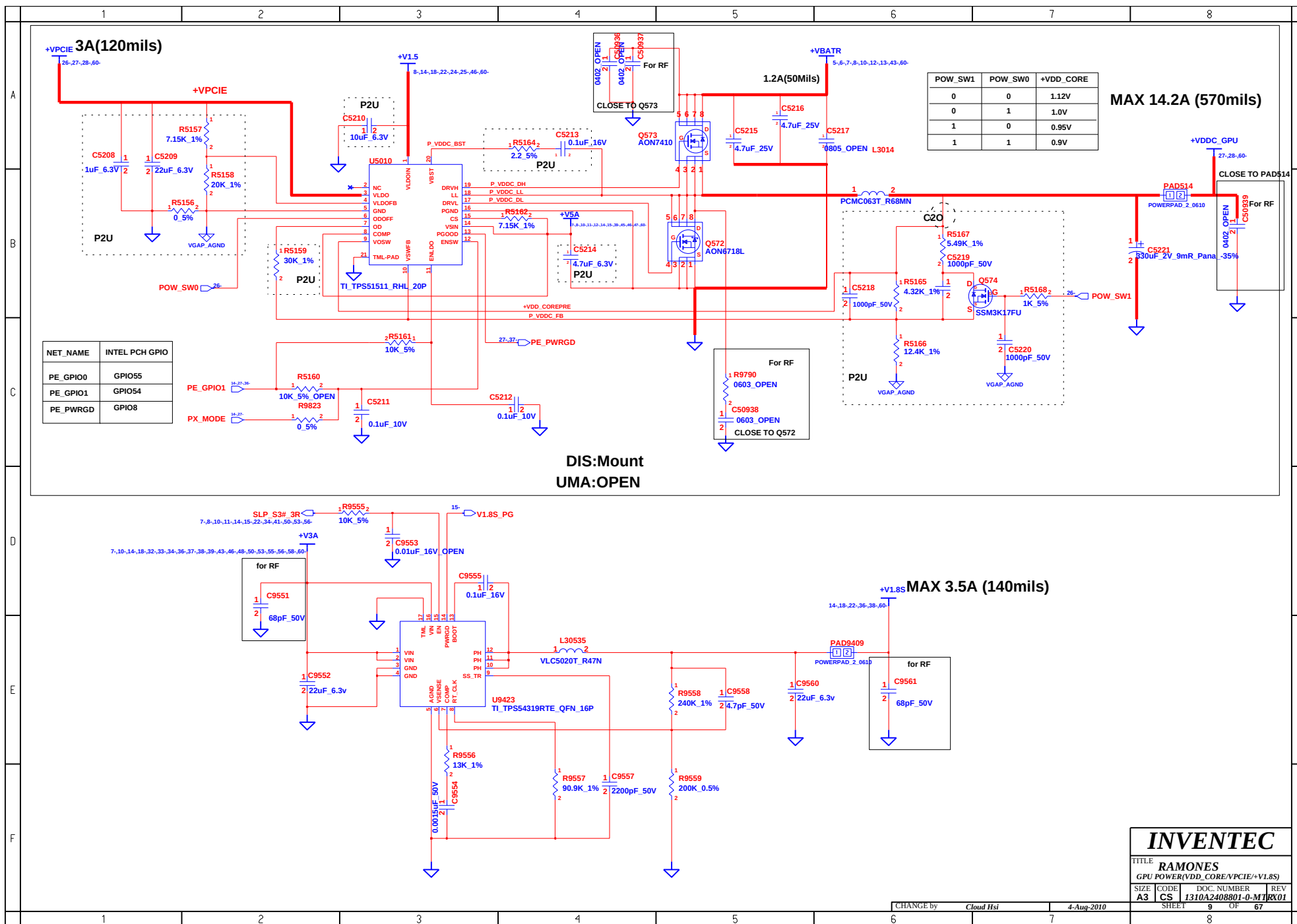


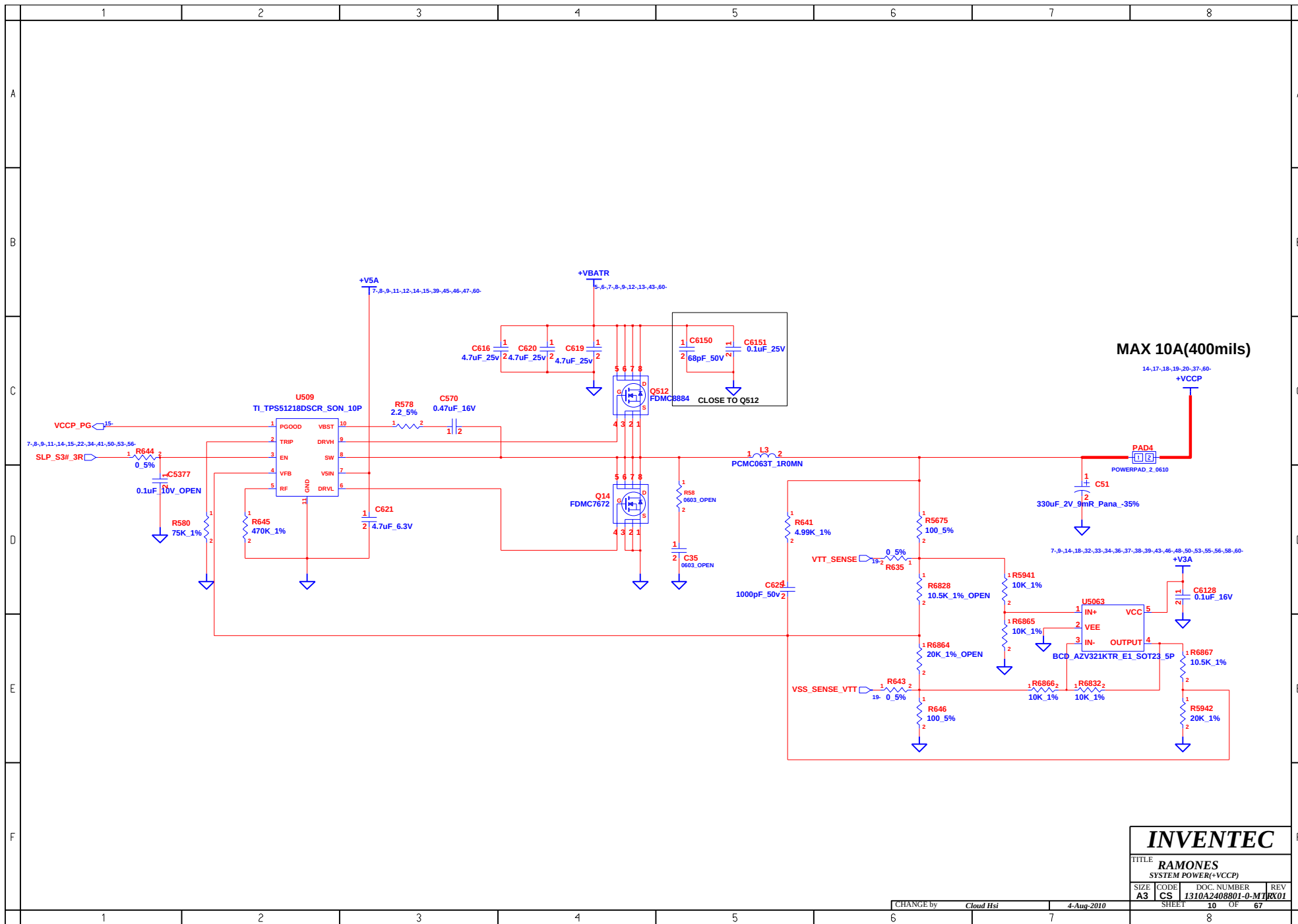
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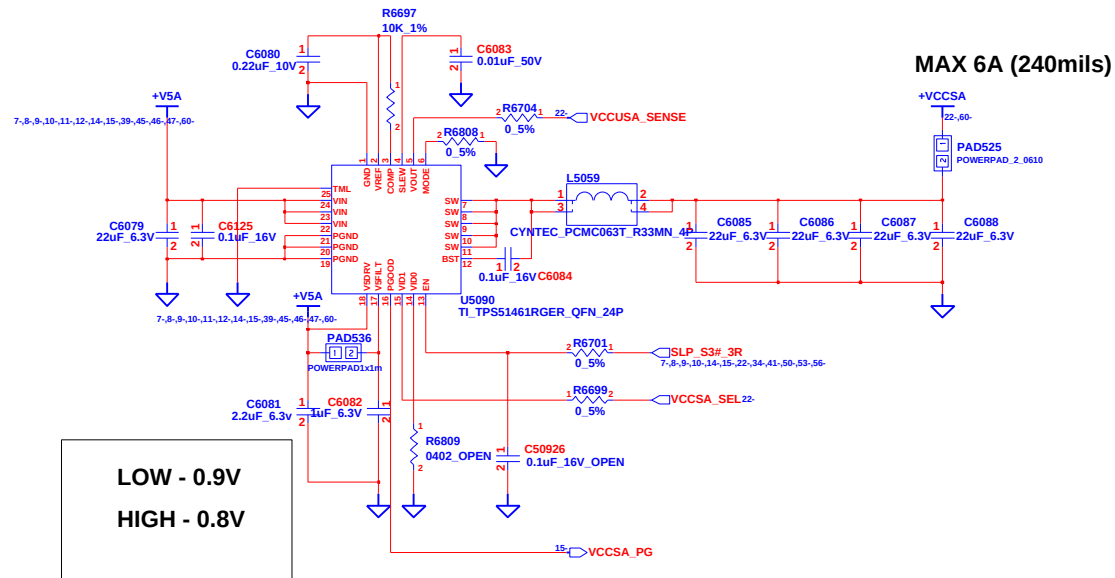
TITLE			
RAMONES			
SYSTEM POWER(+V1.5/+V0.75S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	R001

CHANGE by Cloud Hsi 4-Aug-2010

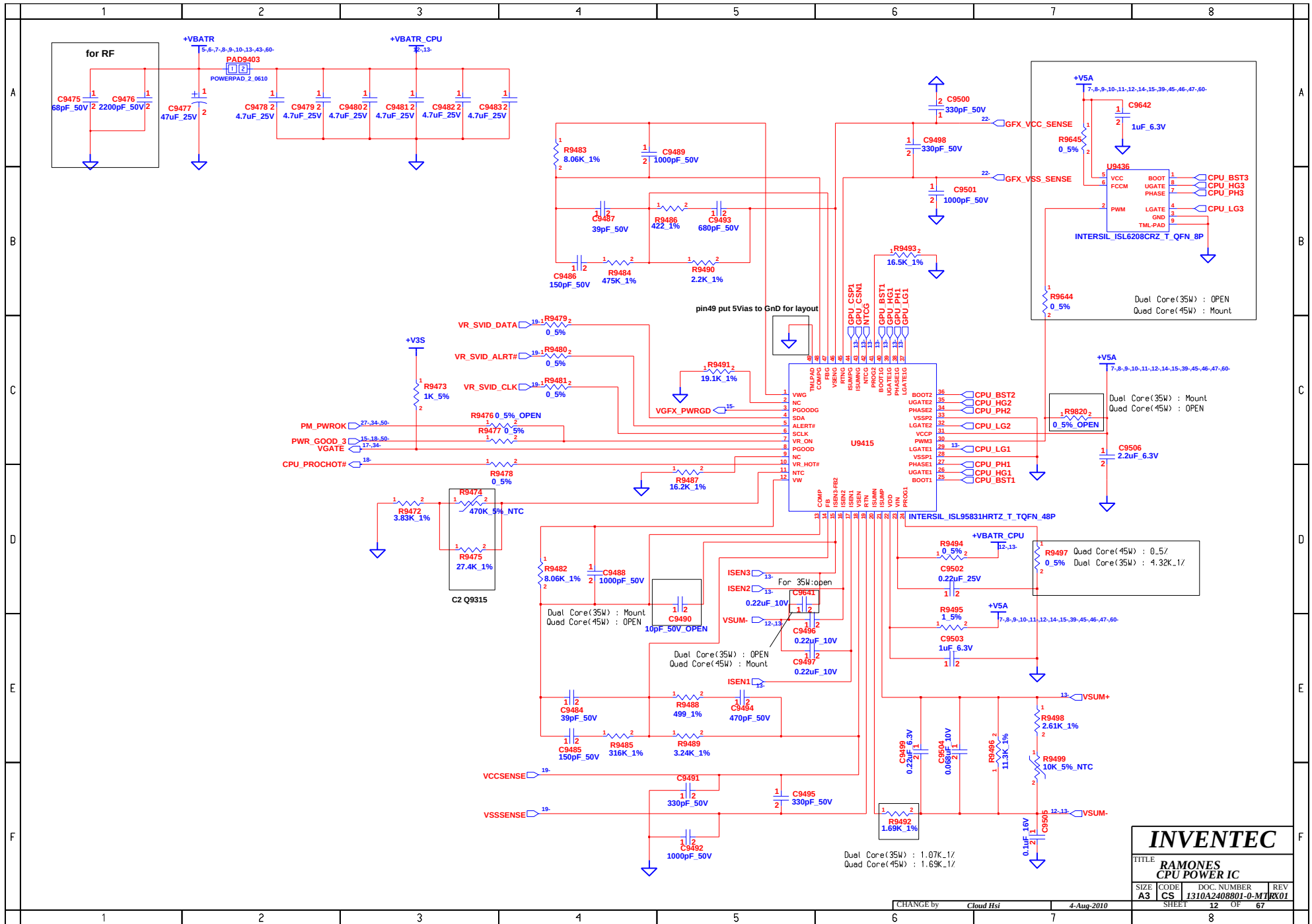
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INVENTEC			
TITLE RAMONES CPU POWER(+VCCSA)			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
CHANGE by Cloud Hsi		4-Aug-2010	
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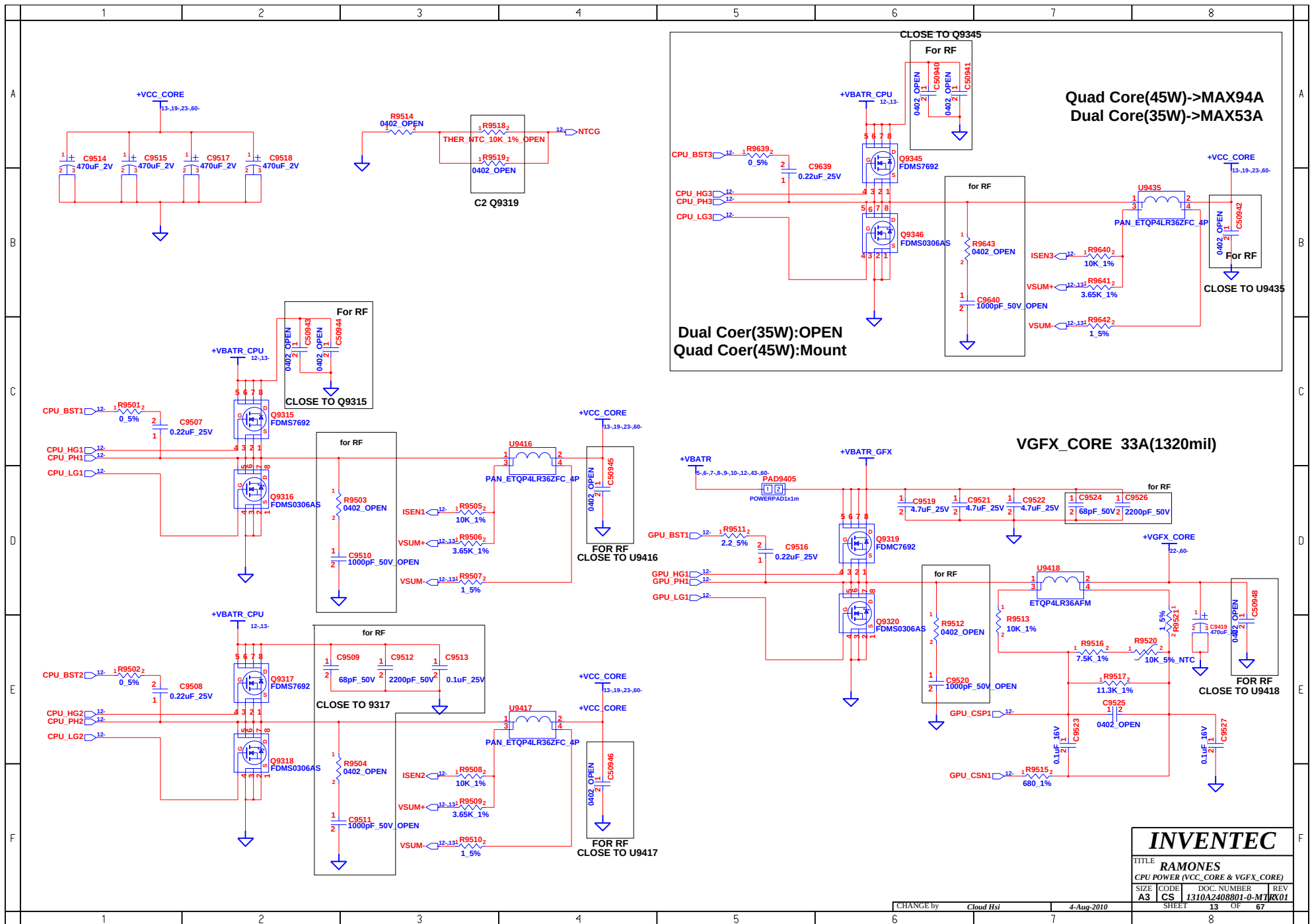


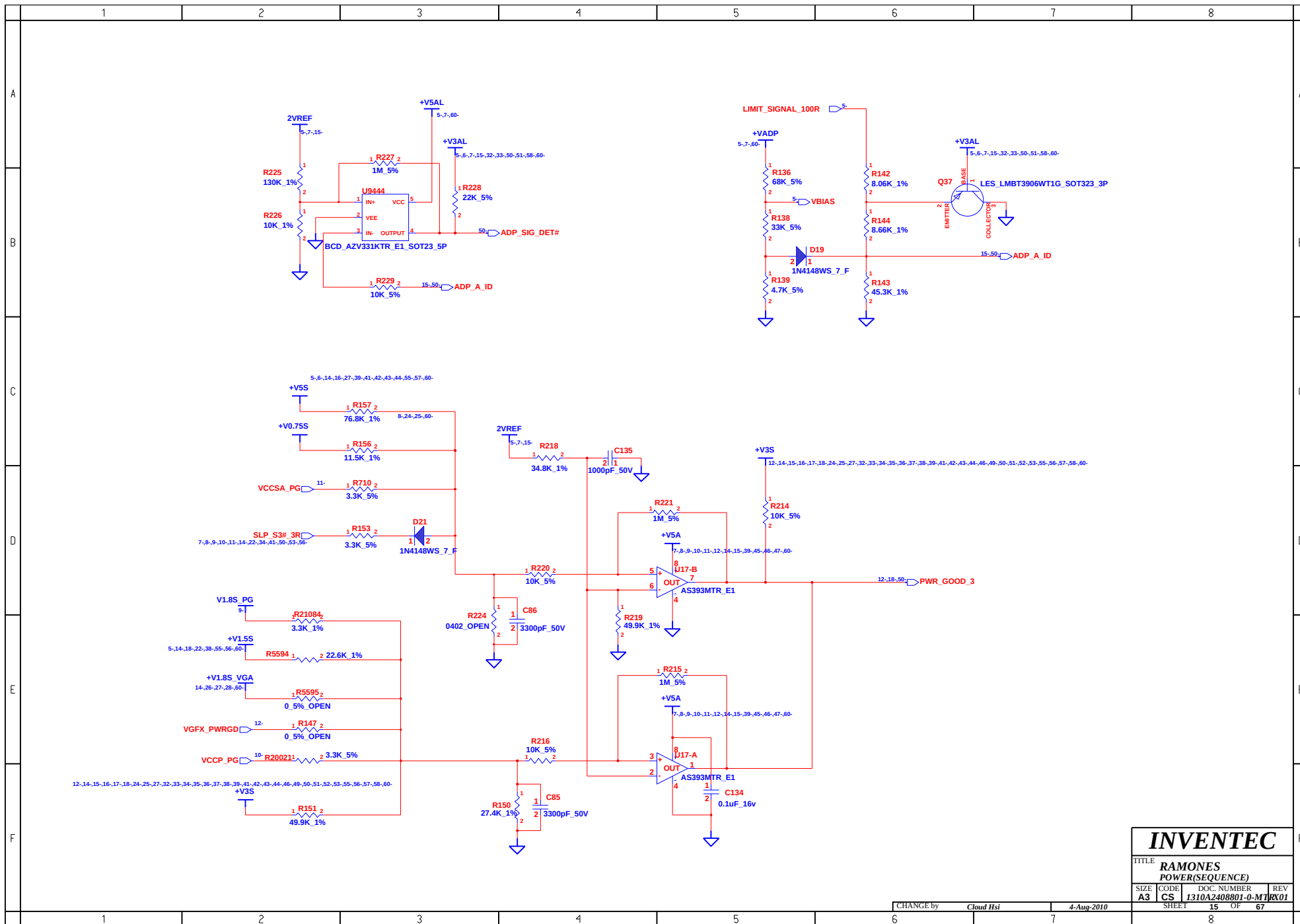
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TITLE
**RAMONES
CPU POWER IC**

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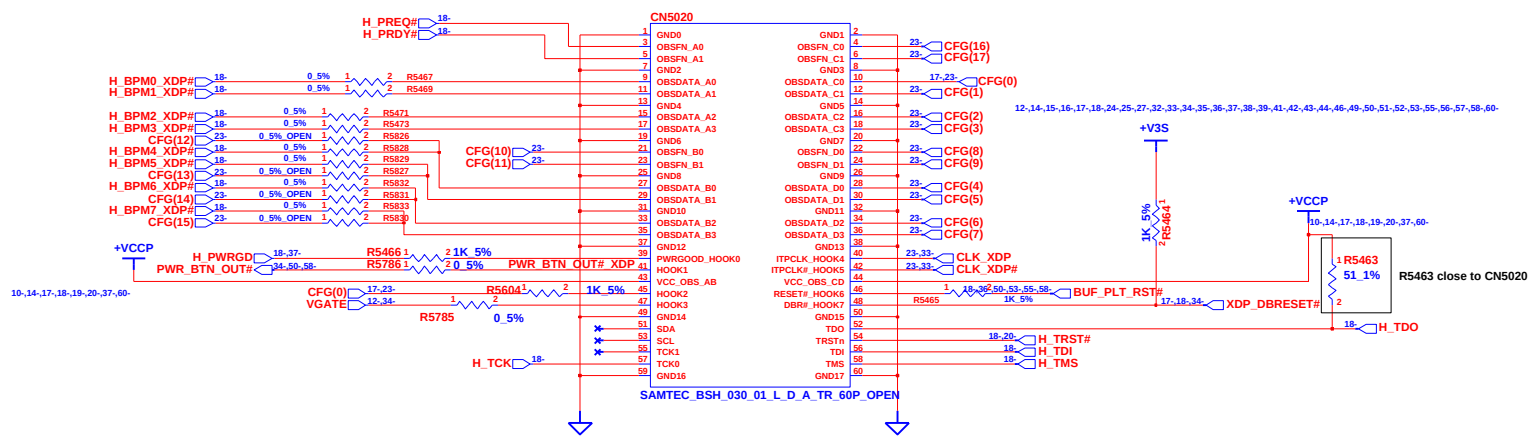
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TITLE RAMONES POWER(SEQUENCE)			
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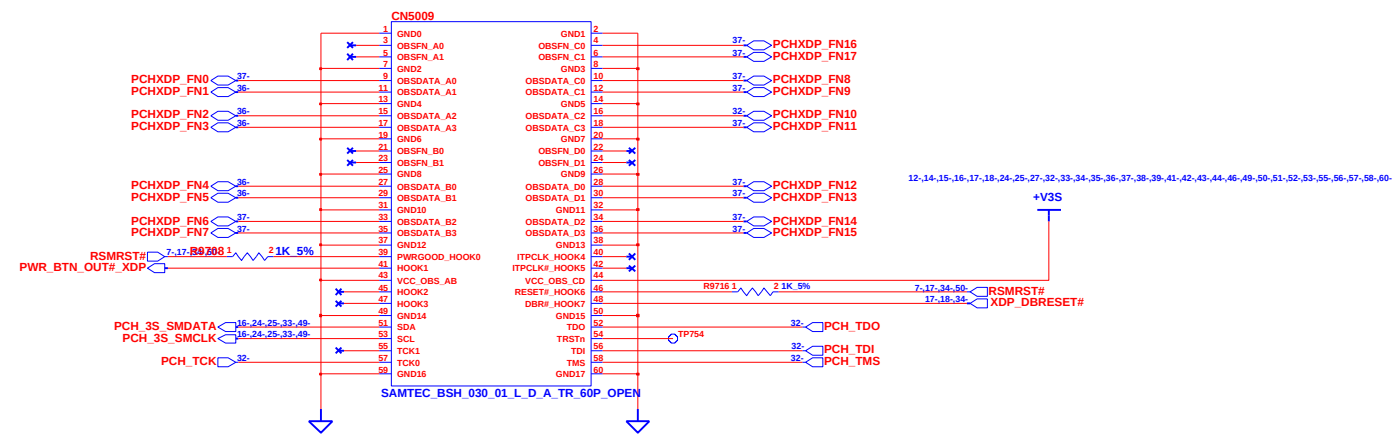
CHANGE by *Cloud Hsi* 4-Aug-2010



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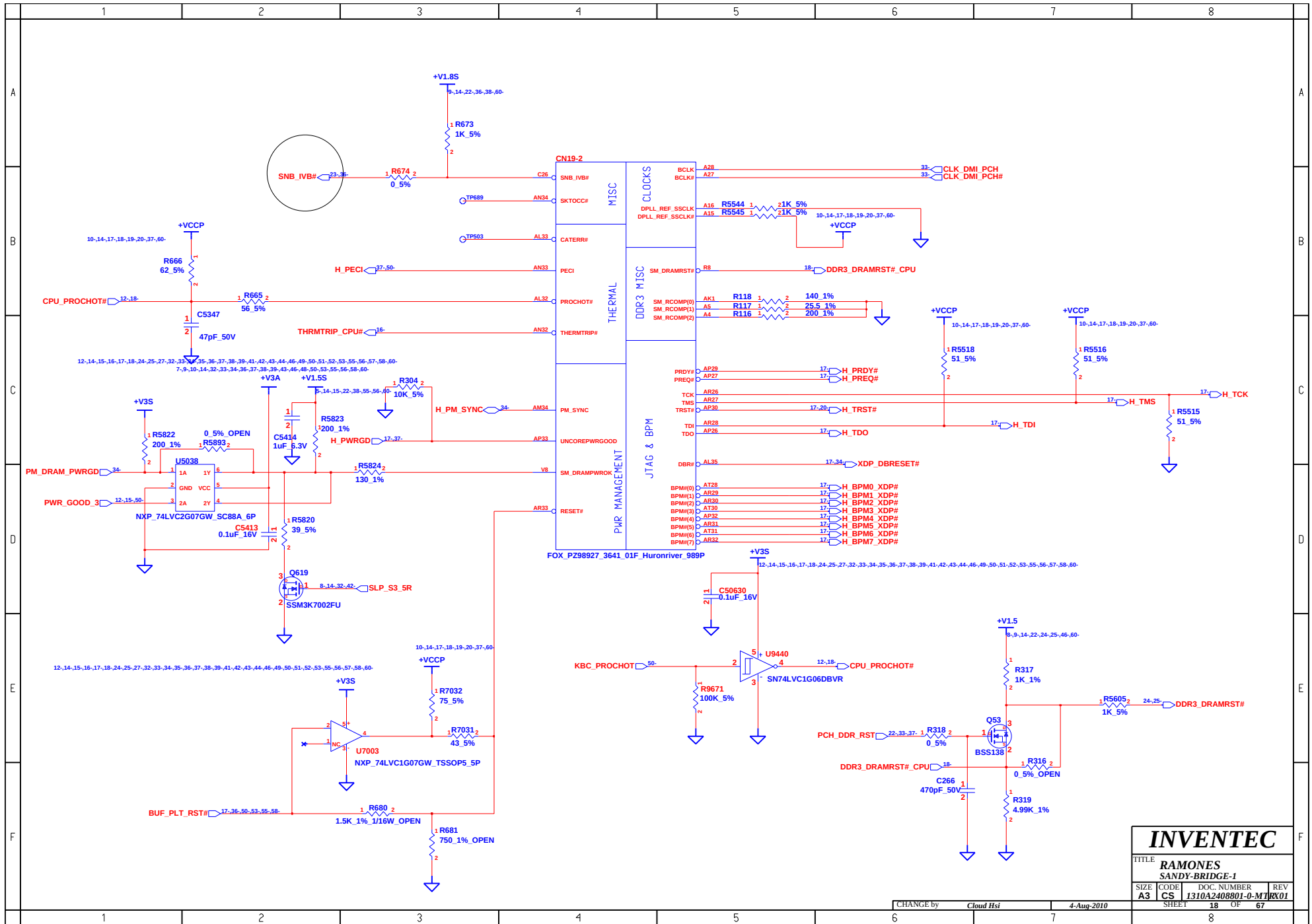
CPU XDP CONNECTOR



PCH XDP CONNECTOR

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TITLE RAMONES CPU & PCH XDP CNTR			
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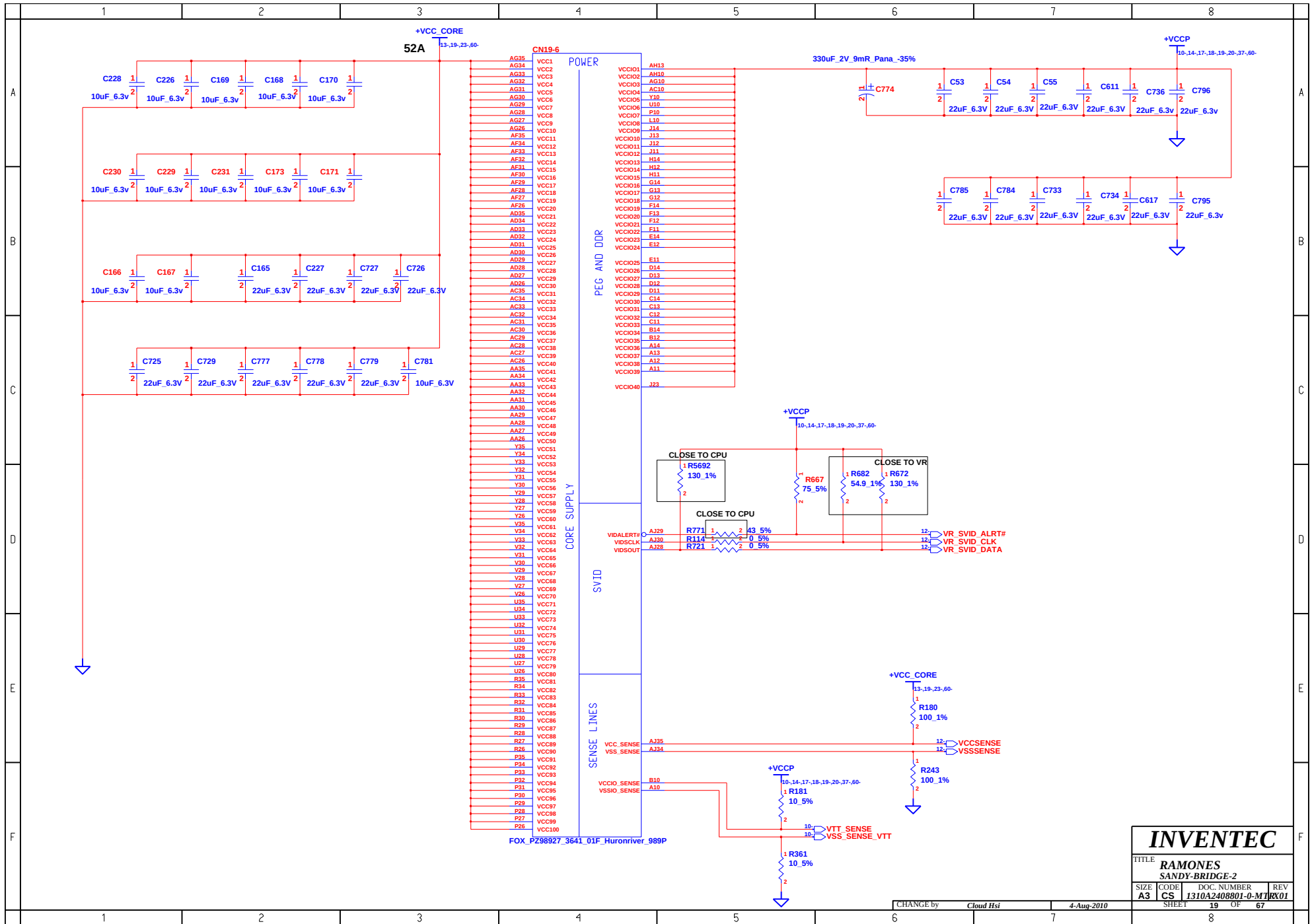
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TITLE RAMONES SANDY-BRIDGE-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
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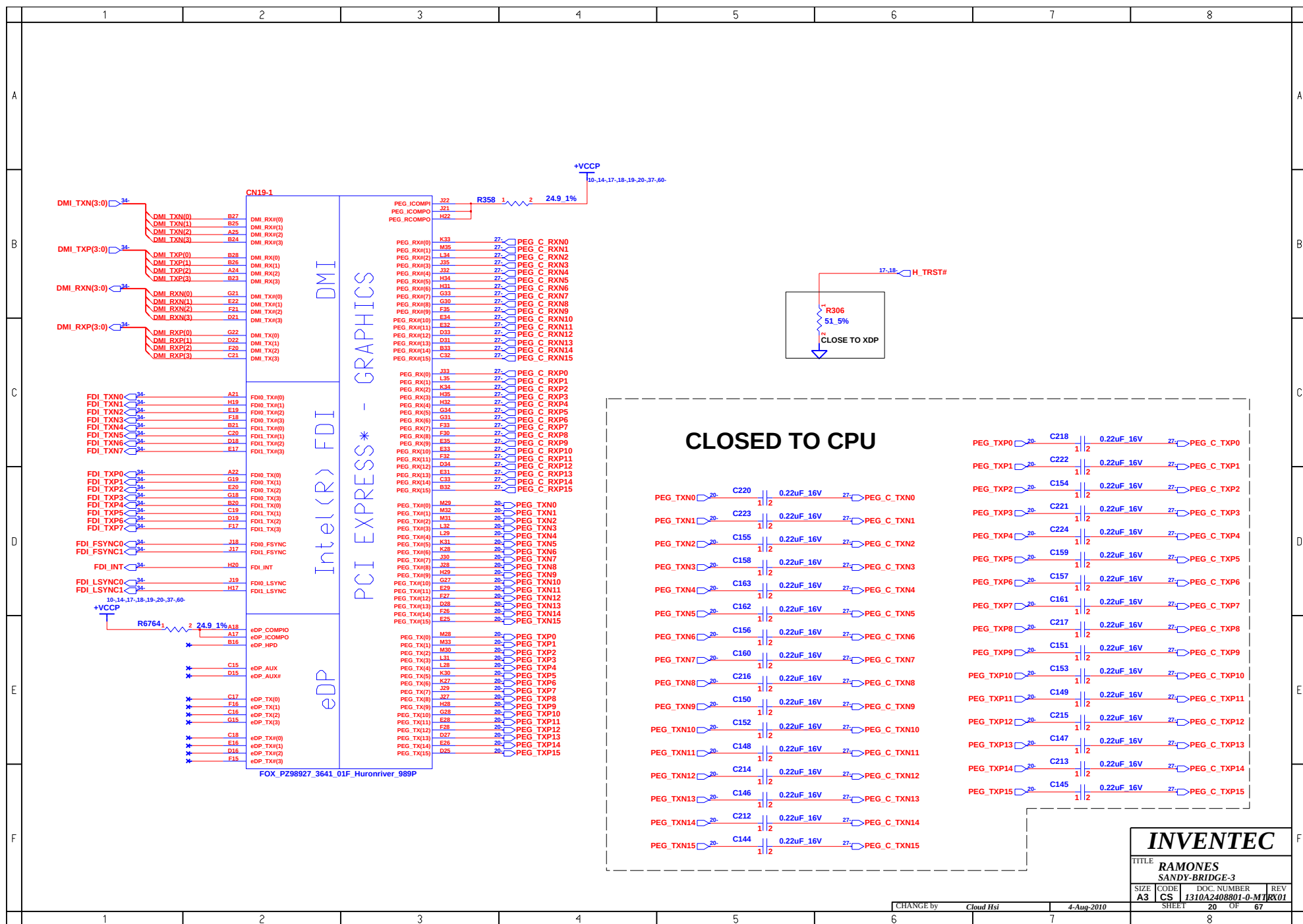
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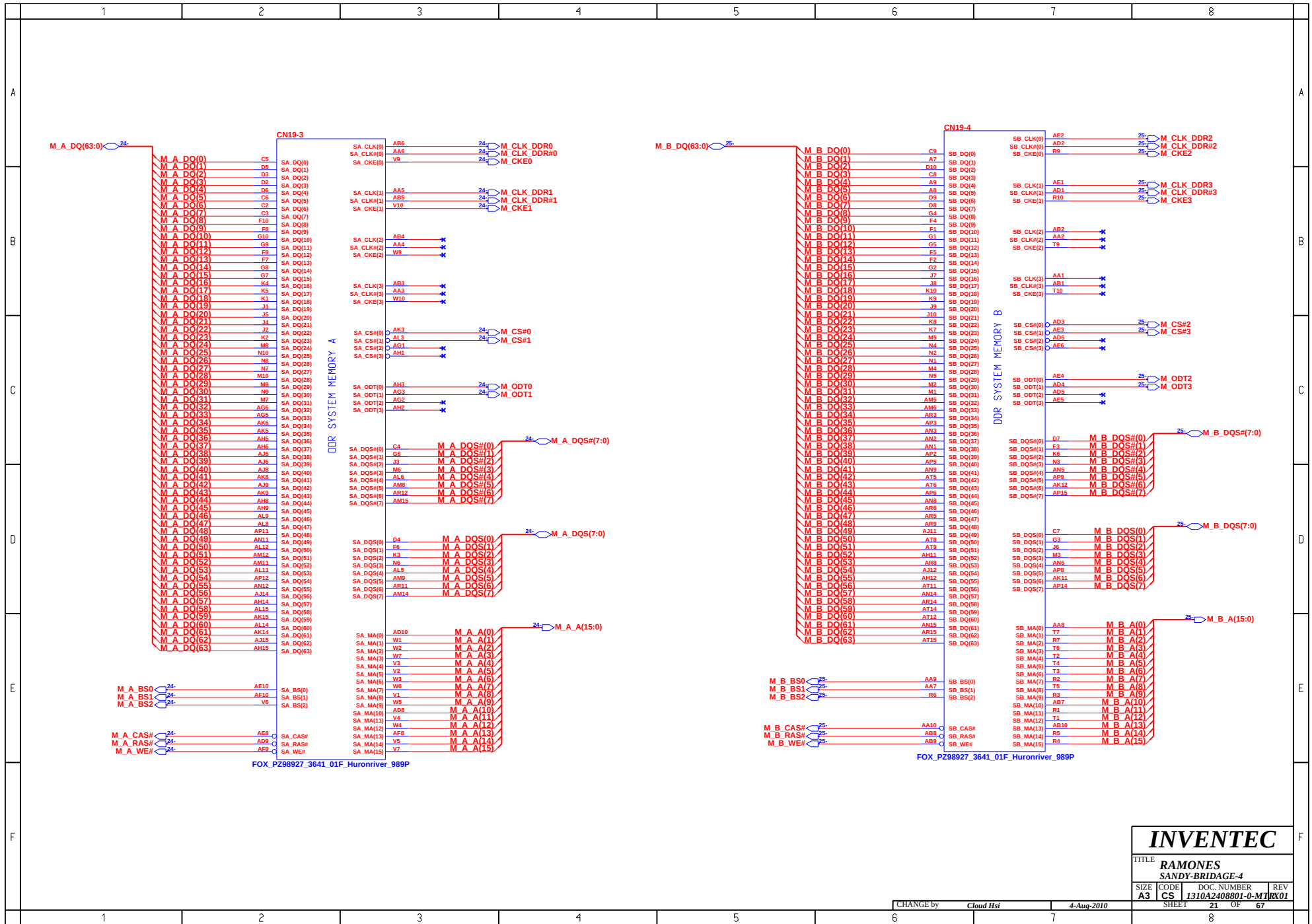


INVENTEC

TITLE			
RAMONES			
SANDY-BRIDGE-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	R001
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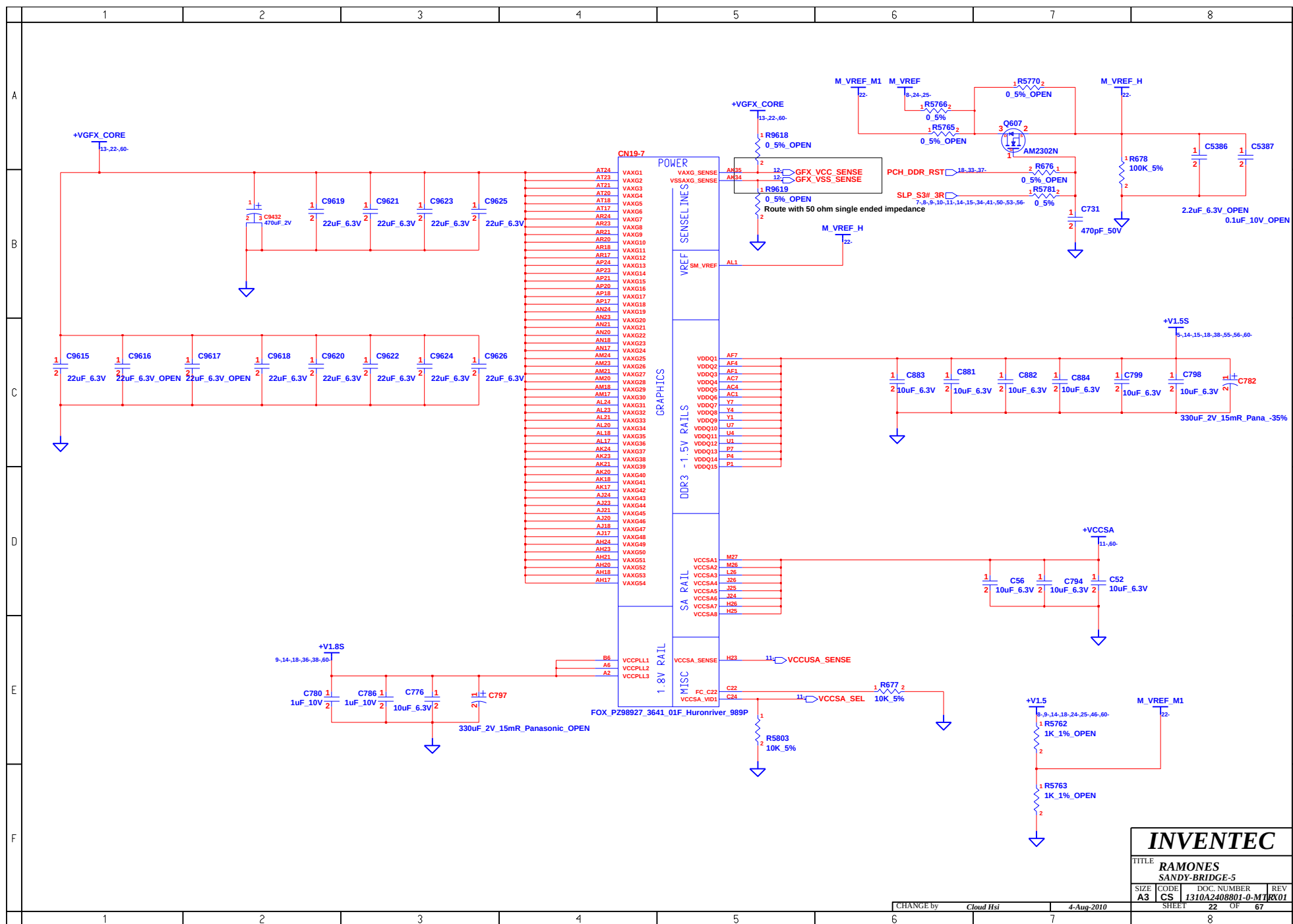
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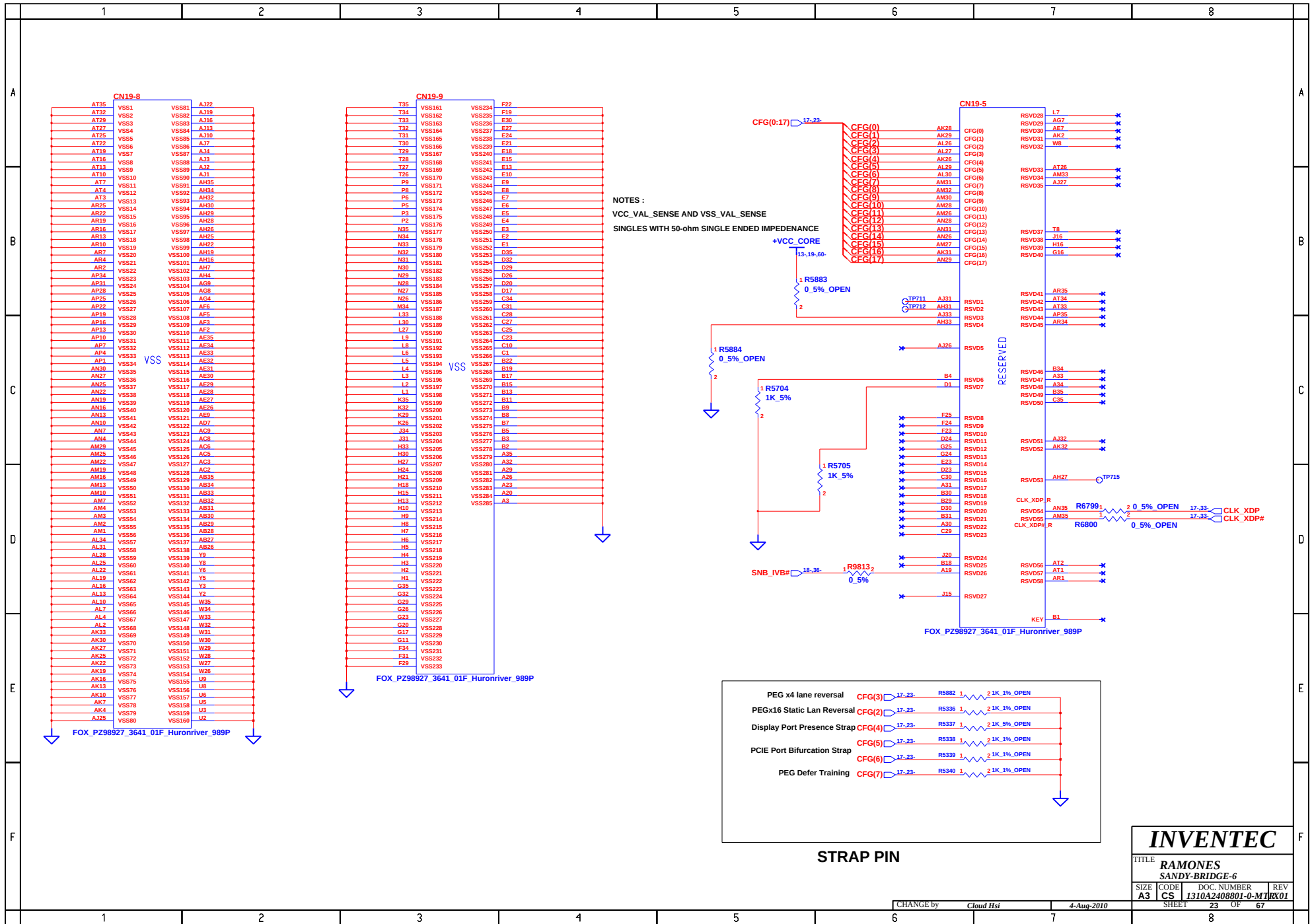
TITLE
RAMONES
SANDY-BRIDGE-4

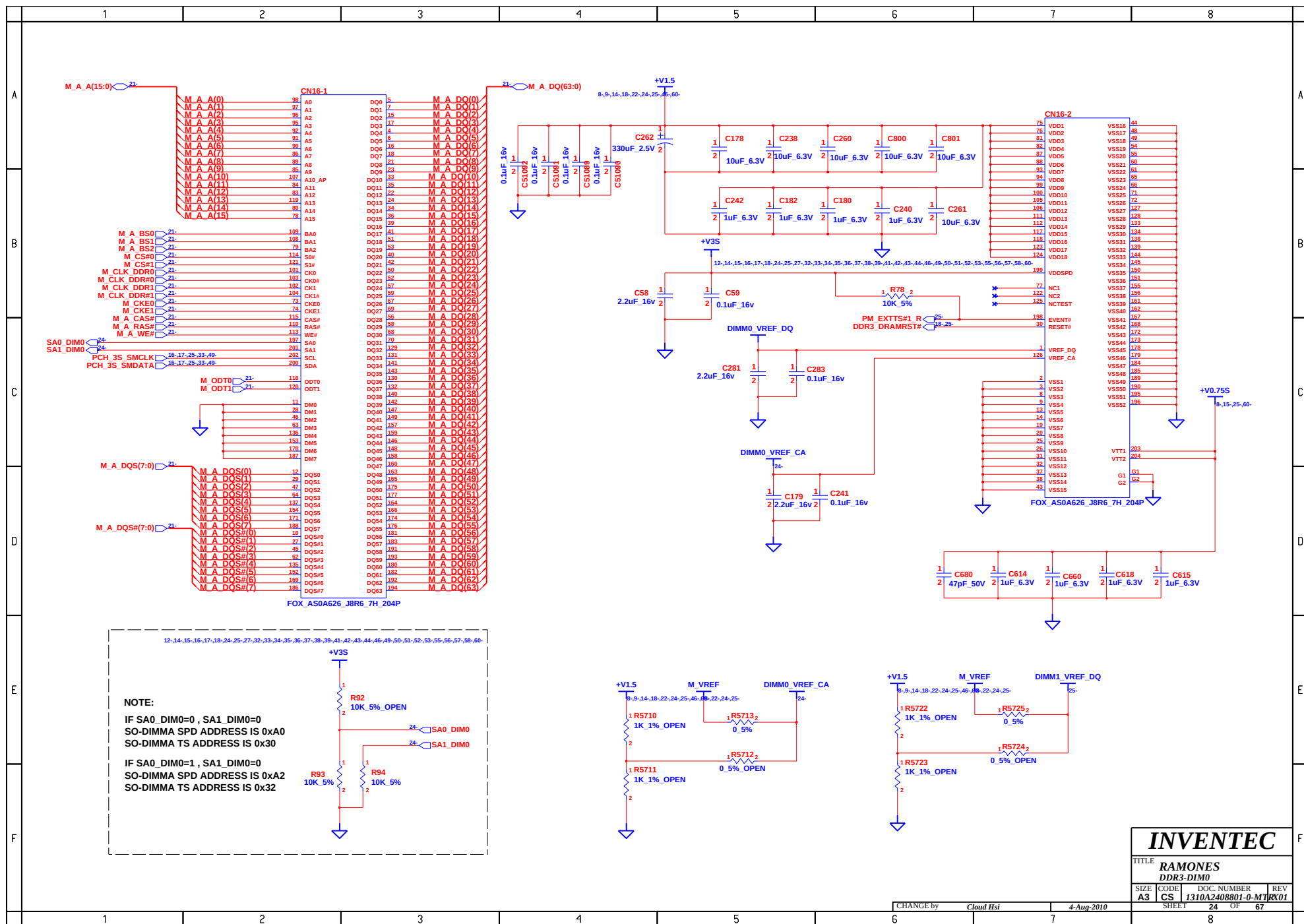
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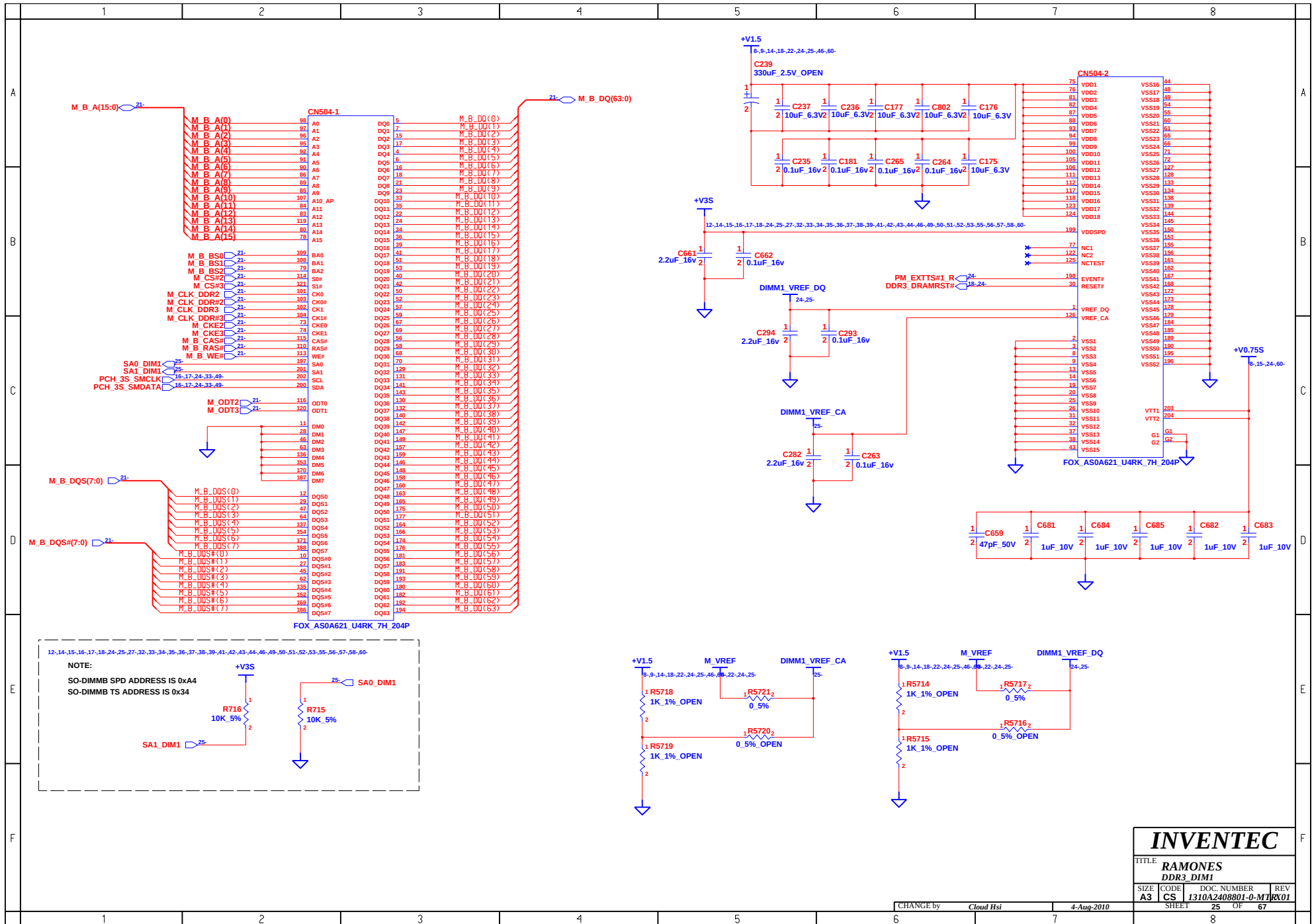
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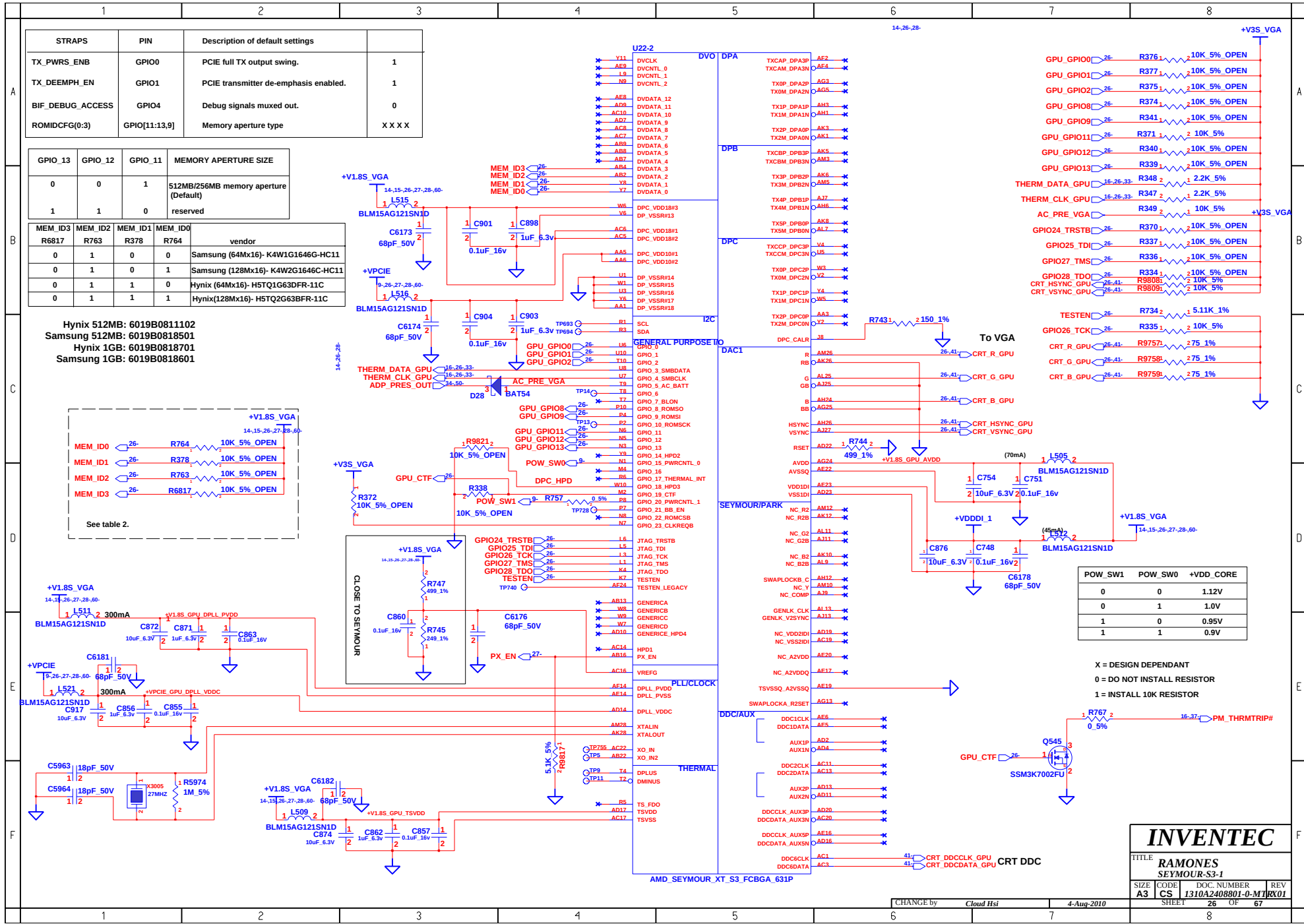
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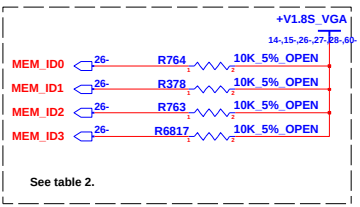


STRAPS	PIN	Description of default settings	
TX_PWRs_ENB	GPIO0	PCIe full TX output swing.	1
TX_DEEMPH_EN	GPIO1	PCIe transmitter de-emphasis enabled.	1
BIF_DEBUG_ACCESS	GPIO4	Debug signals muxed out.	0
ROMIDCFG(0:3)	GPIO[11:13,9]	Memory aperture type	X X X X

GPIO_13	GPIO_12	GPIO_11	MEMORY APERTURE SIZE
0	0	1	512MB/256MB memory aperture (Default)
1	1	0	reserved

MEM_ID3	MEM_ID2	MEM_ID1	MEM_ID0	vendor
R6817	R763	R378	R764	
0	1	0	0	Samsung (64Mx16)- K4W1G1646G-HC11
0	1	0	1	Samsung (128Mx16)- K4W2G1646C-HC11
0	1	1	0	Hynix (64Mx16)- H5TQ1G63DFR-11C
0	1	1	1	Hynix(128Mx16)- H5TQ2G63BFR-11C

Hynix 512MB: 6019B081102
Samsung 512MB: 6019B0818501
Hynix 1GB: 6019B0818701
Samsung 1GB: 6019B0818601



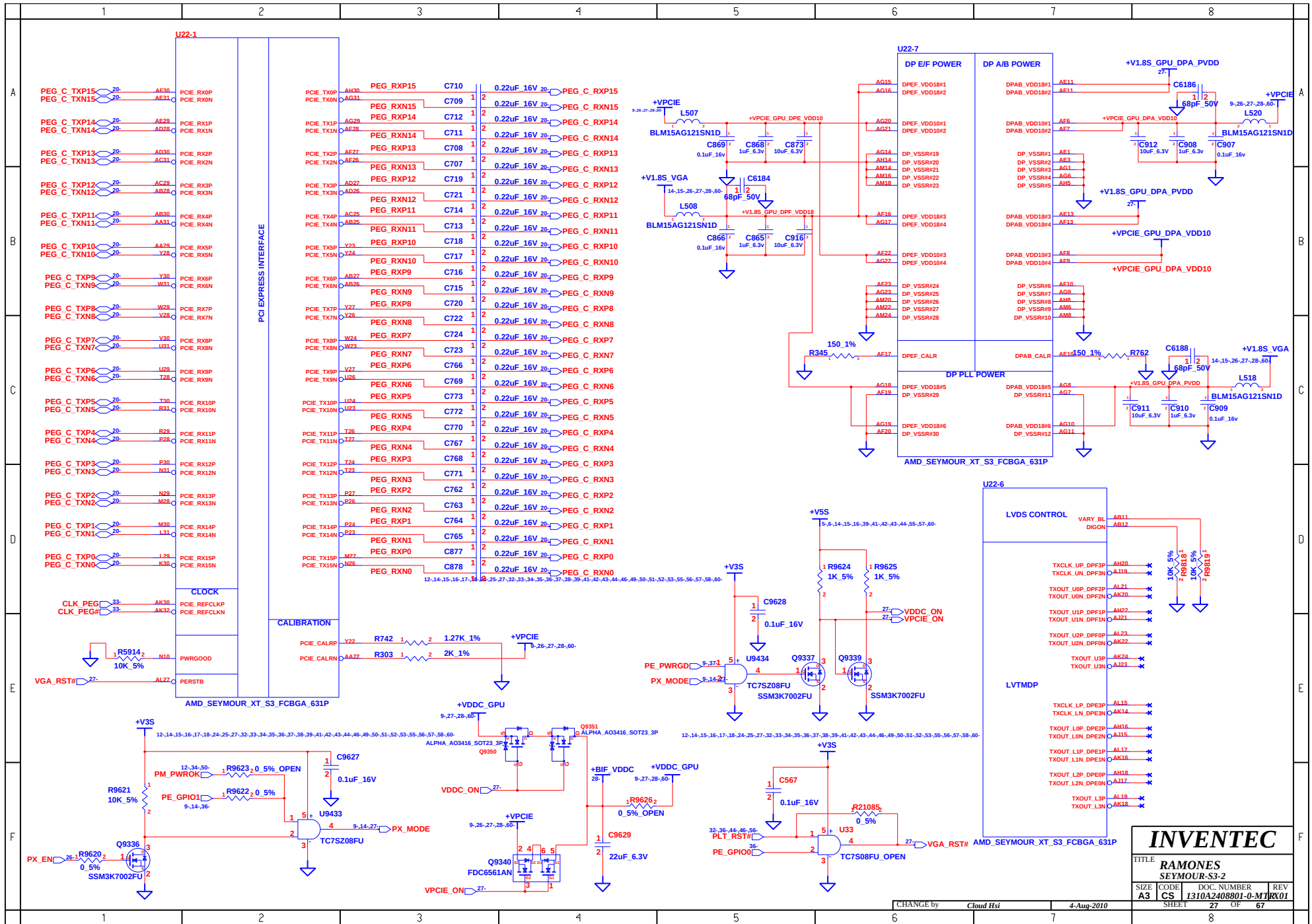
POW_SW1	POW_SW0	+VDD_CORE
0	0	1.12V
0	1	1.0V
1	0	0.95V
1	1	0.9V

X = DESIGN DEPENDANT
0 = DO NOT INSTALL RESISTOR
1 = INSTALL 10K RESISTOR

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TITLE RAMONES SEYMOUR-S3-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-MT	REV R001
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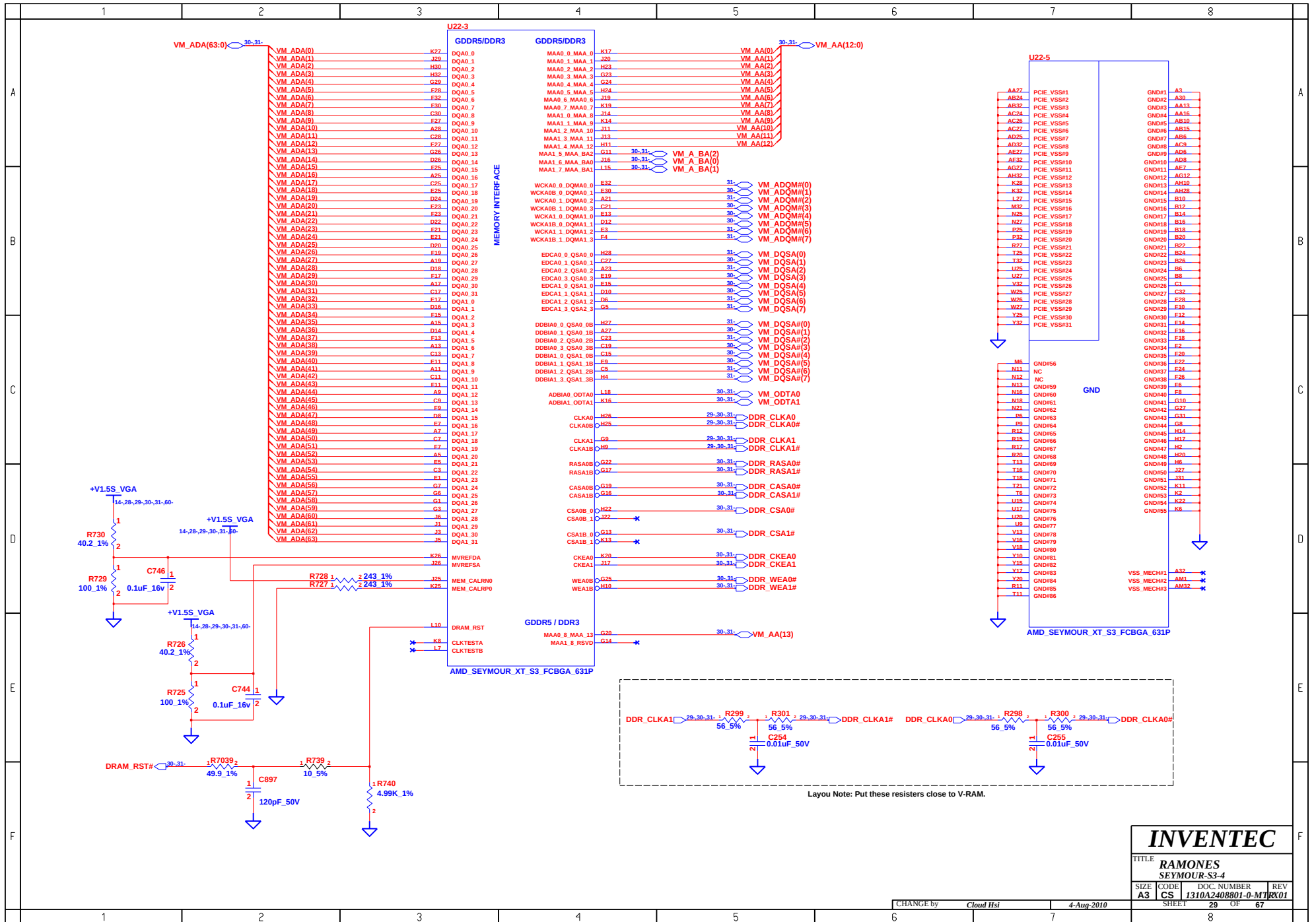


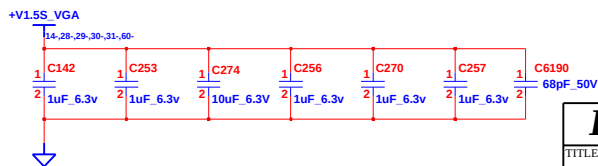
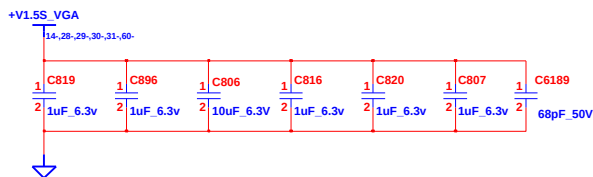
INVENTEC

TITLE RAMONES SEYMOUR-S3-2			
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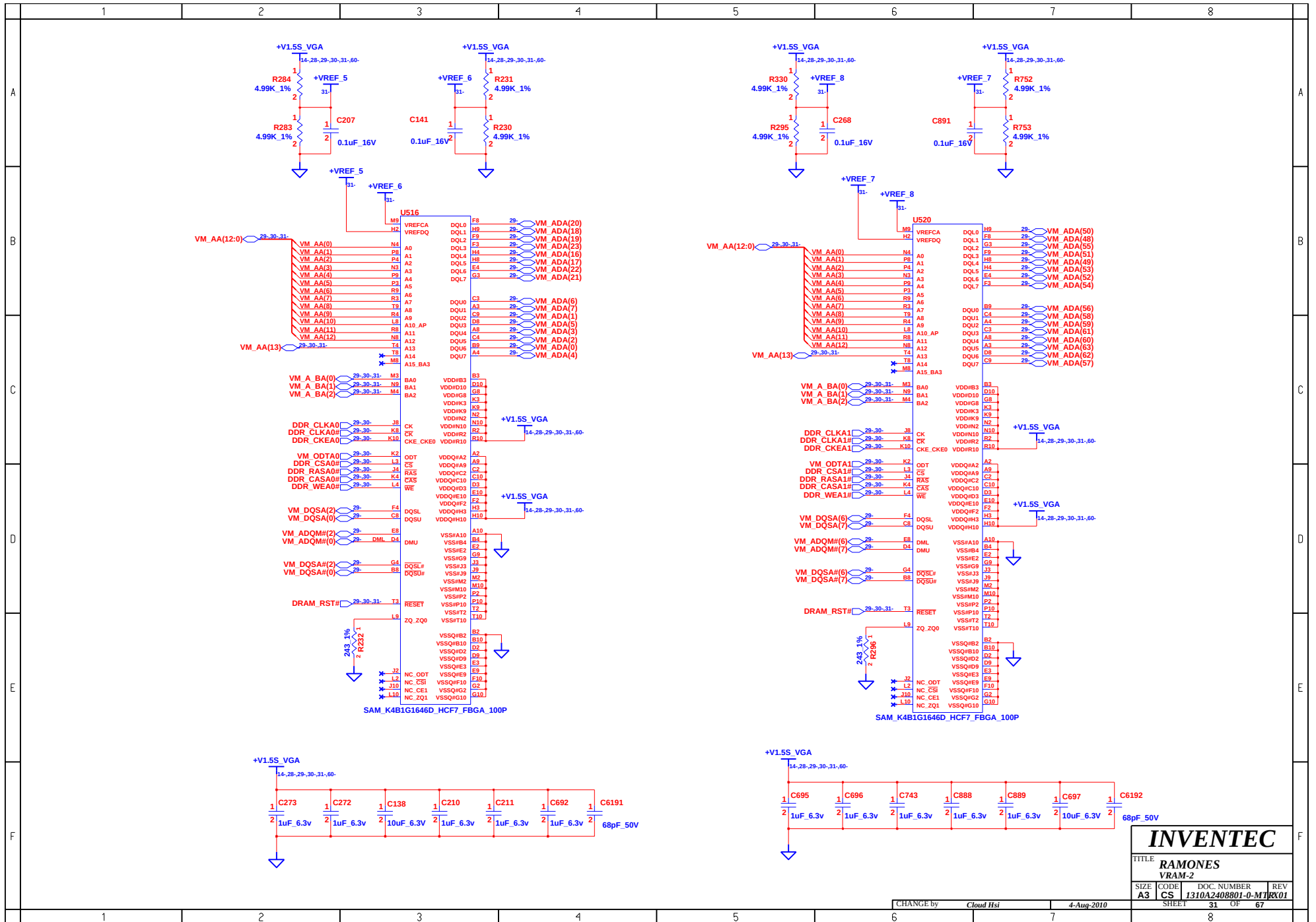
4-Aug-2010

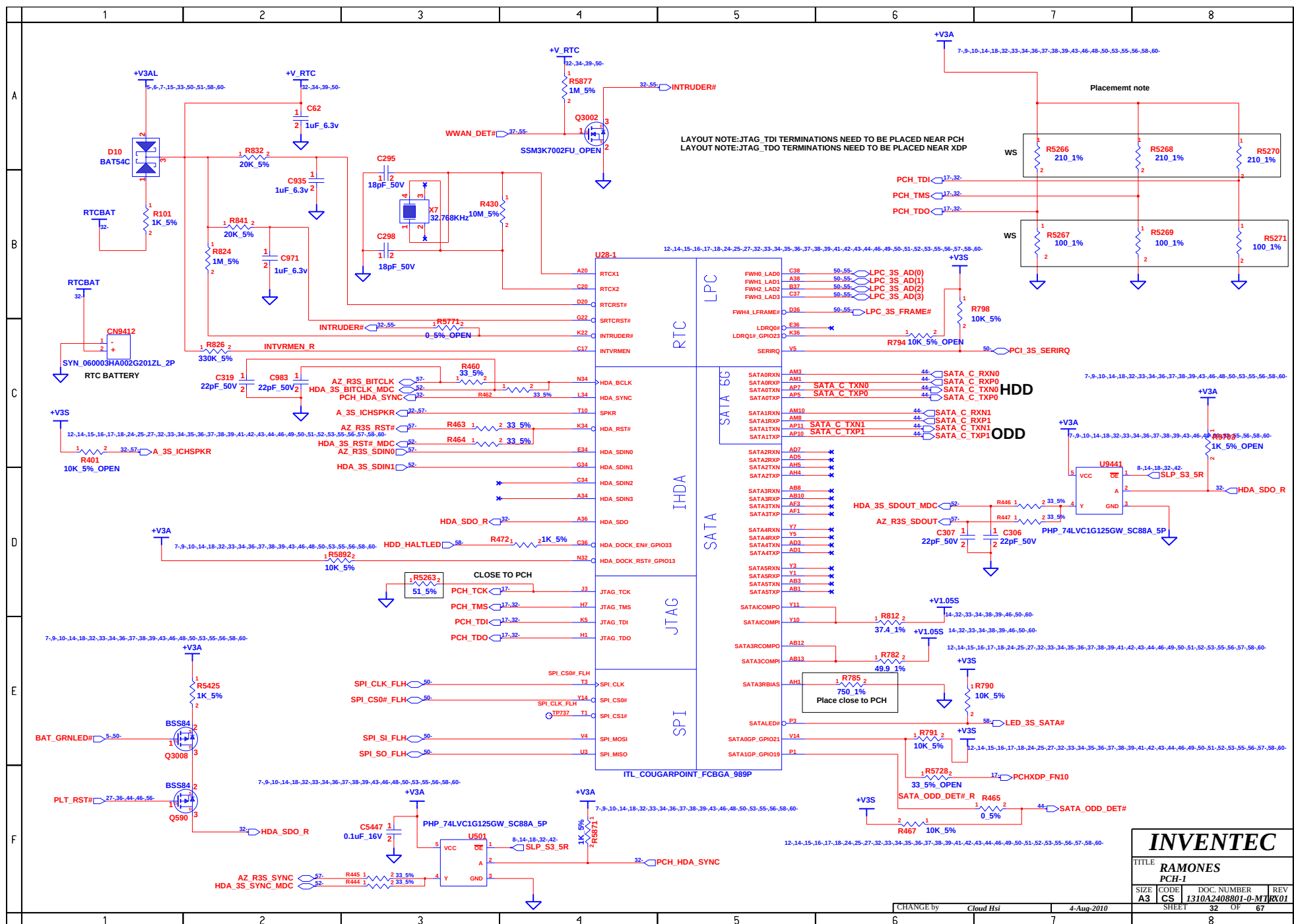


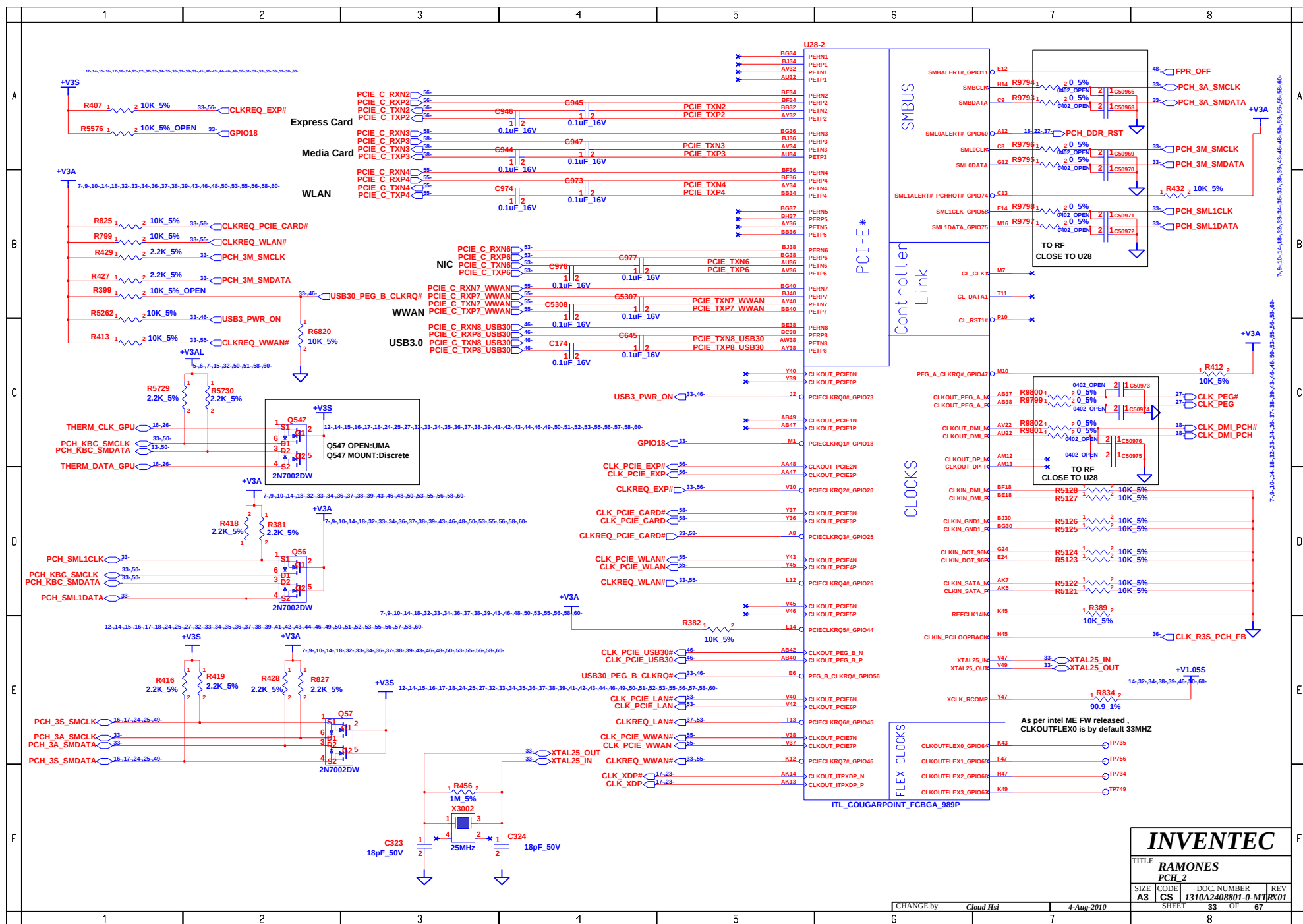


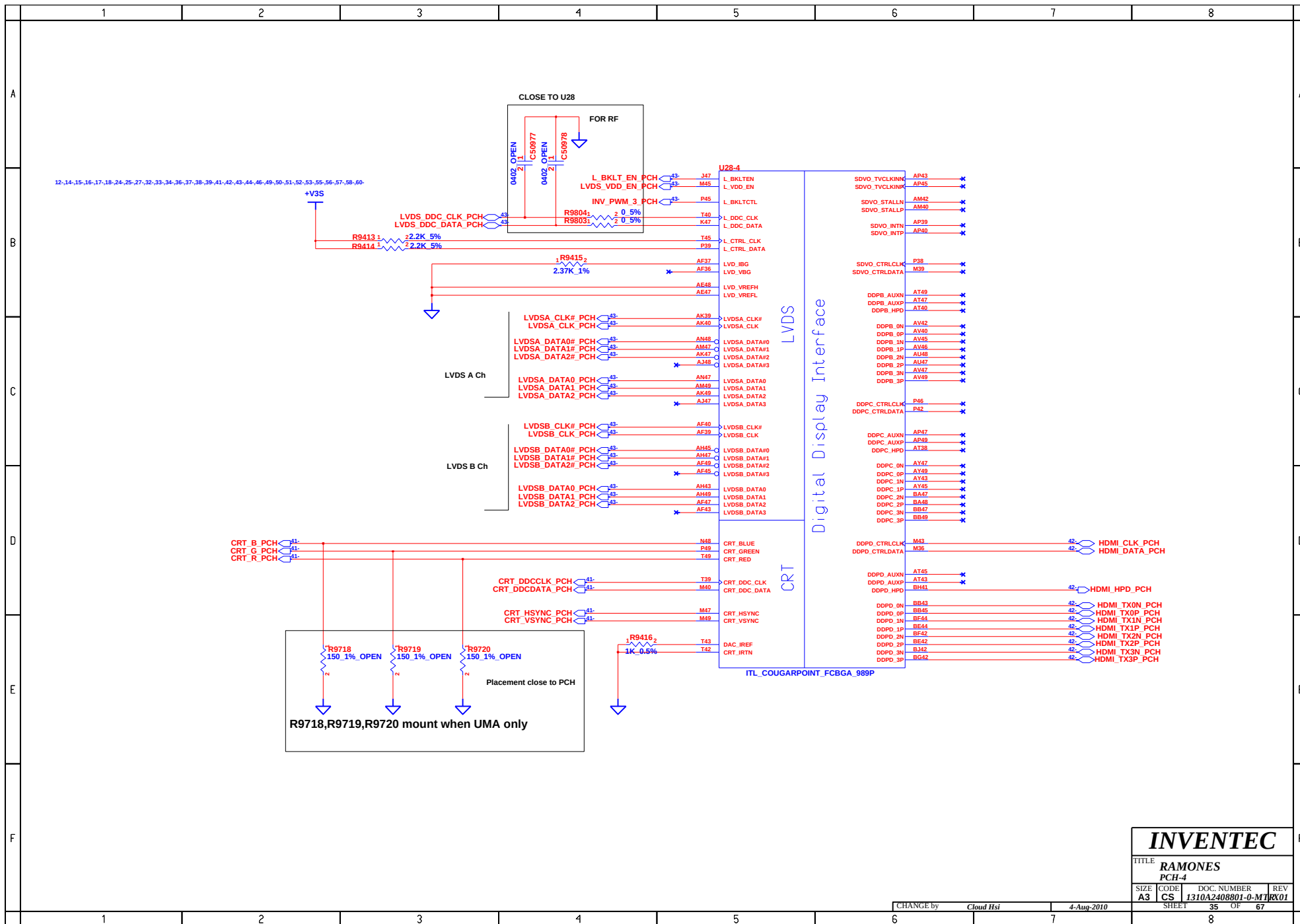
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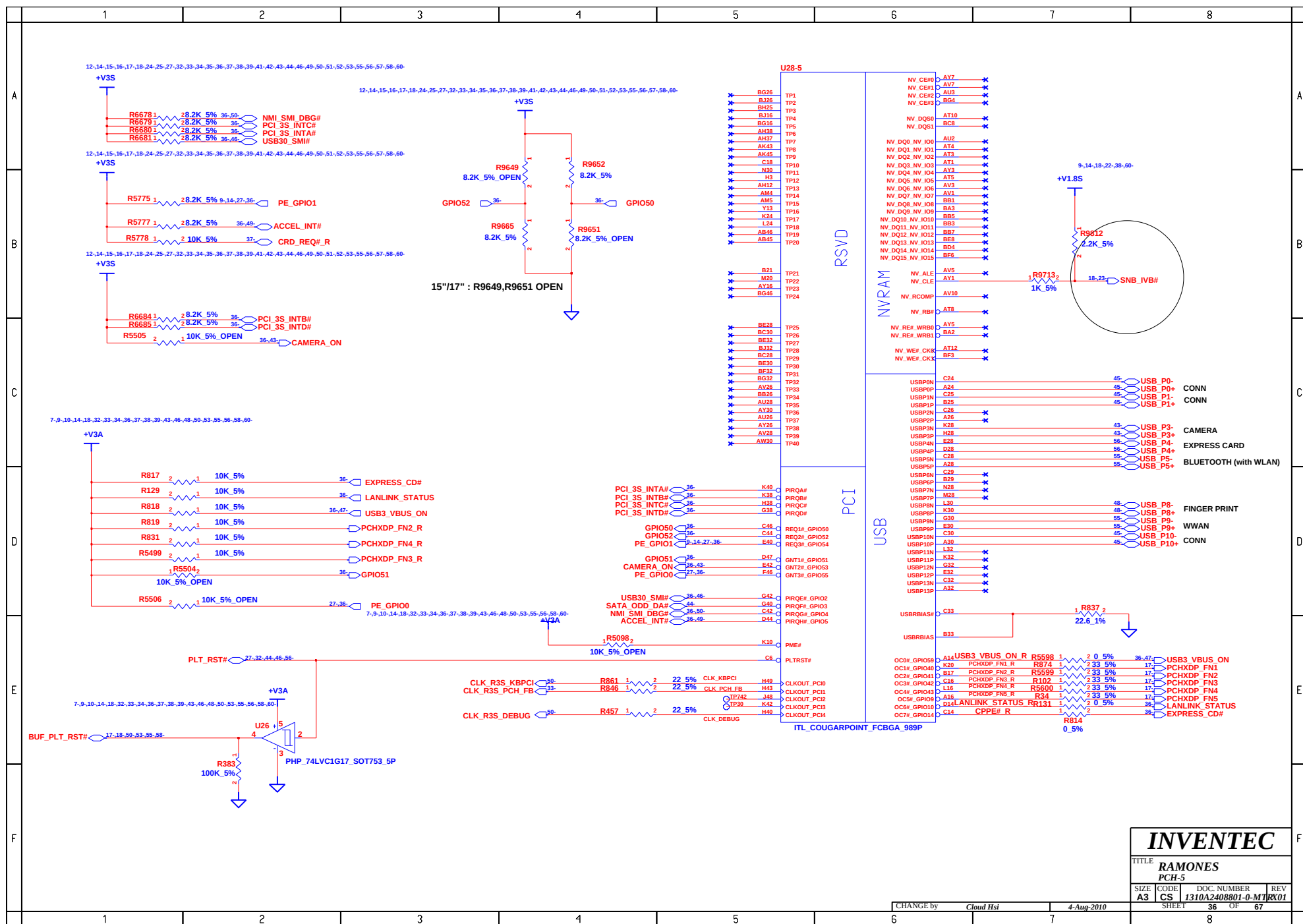
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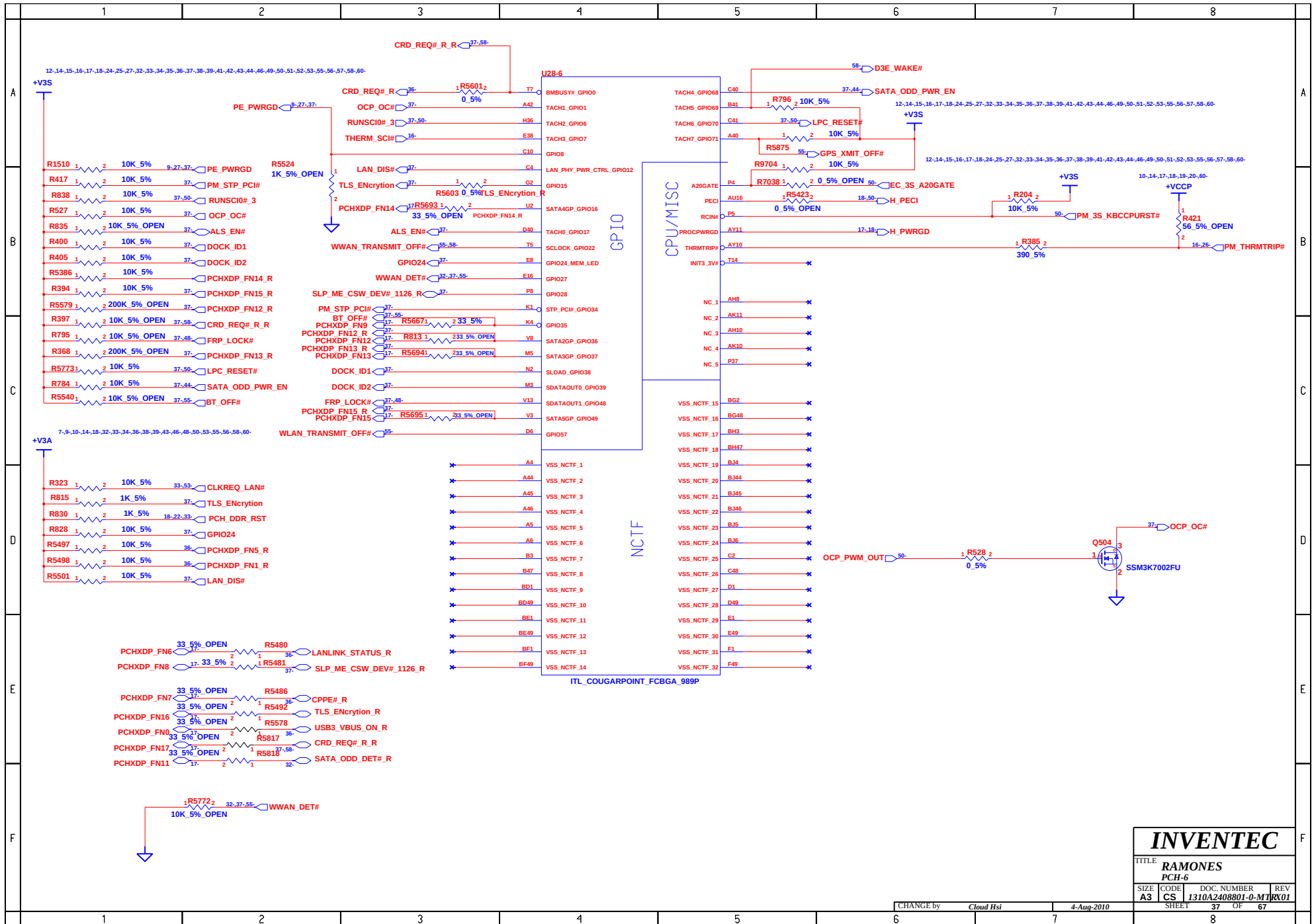








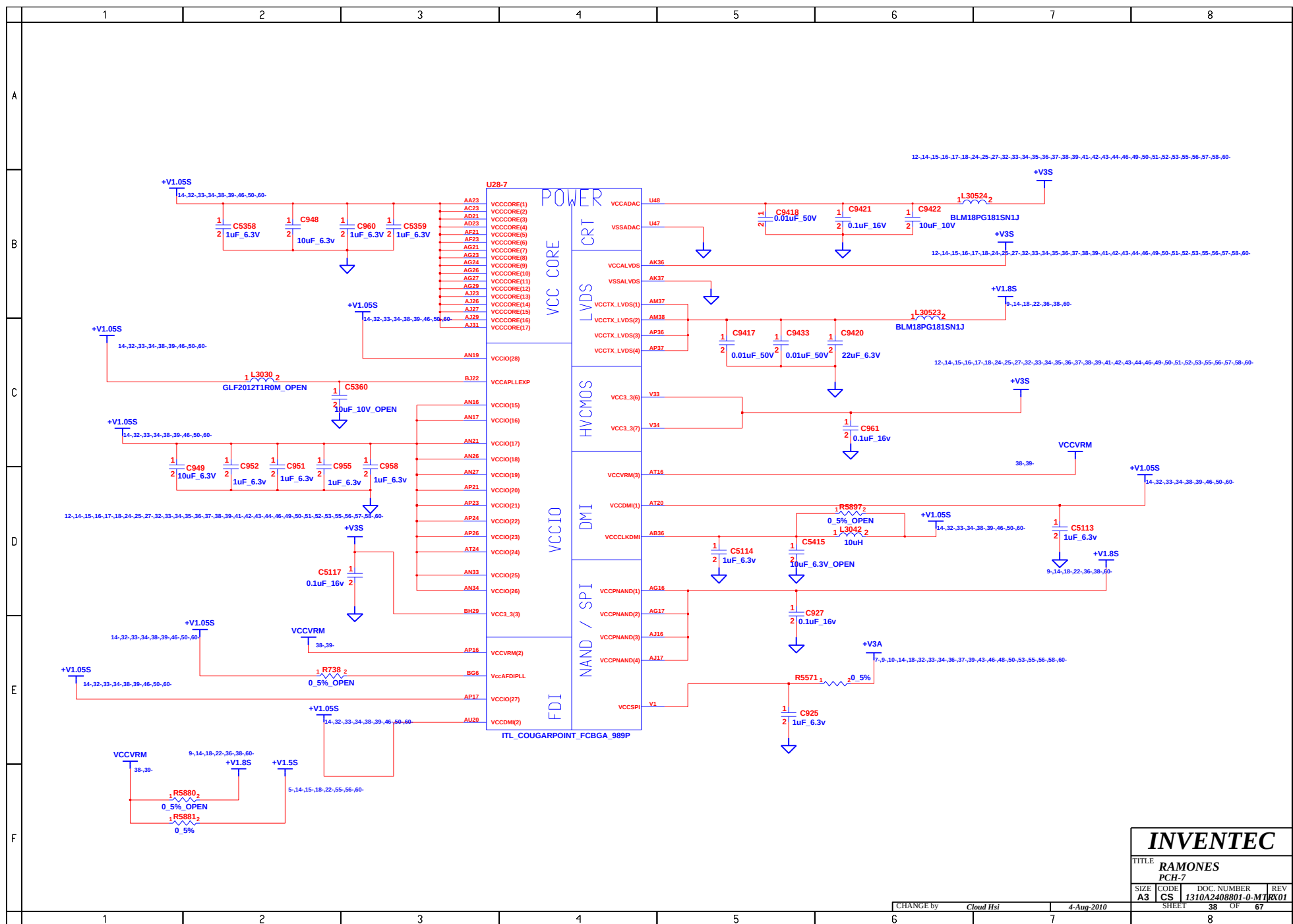


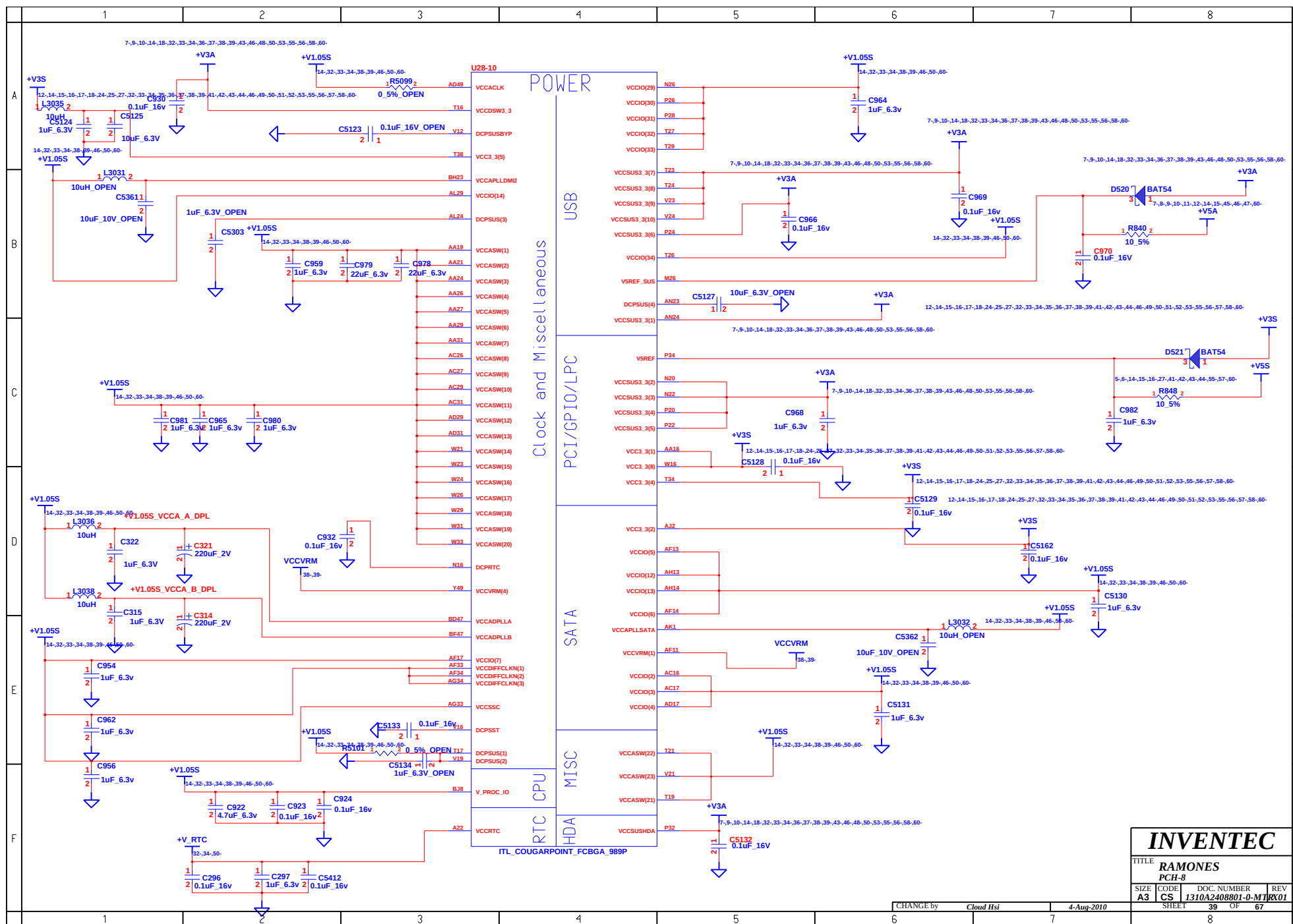


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TITLE			
RAMONES			
PCH-6			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by Cloud Hsi 4-Aug-2010





U28-8

HS VSS(0)

AA17 VSS(1) AK38

AA2 VSS(2) VSS(81) AK4

AA3 VSS(3) VSS(82) AK46

AA33 VSS(4) VSS(83) AK8

AA34 VSS(5) VSS(84) AL16

AB11 VSS(6) VSS(85) AL17

AB14 VSS(7) VSS(86) AL19

AB39 VSS(8) VSS(87) AL2

AB4 VSS(9) VSS(88) AL21

AB43 VSS(10) VSS(89) AL23

AB5 VSS(11) VSS(90) AL26

AB7 VSS(12) VSS(91) AL27

AC19 VSS(13) VSS(92) AL31

AC2 VSS(14) VSS(93) AL34

AC24 VSS(15) VSS(94) AL48

AC48 VSS(16) VSS(95) AM11

AC33 VSS(17) VSS(96) AM14

AC34 VSS(18) VSS(97) AM36

AC48 VSS(19) VSS(98) AM39

AD19 VSS(20) VSS(99) AM45

AD11 VSS(21) VSS(100) AM46

AD12 VSS(22) VSS(101) AM7

AD13 VSS(23) VSS(102) AN2

AD19 VSS(24) VSS(103) AN29

AD24 VSS(25) VSS(104) AN3

AD28 VSS(26) VSS(105) AN31

AD27 VSS(27) VSS(106) AP12

AD33 VSS(28) VSS(107) AP19

AD34 VSS(29) VSS(108) AP28

AD38 VSS(30) VSS(109) AP30

AD39 VSS(31) VSS(110) AP32

AD4 VSS(32) VSS(111) AP38

AD4 VSS(33) VSS(112) AP4

AD40 VSS(34) VSS(113) AP42

AD42 VSS(35) VSS(114) AP46

AD42 VSS(36) VSS(115) AP8

AD43 VSS(37) VSS(116) AP2

AD44 VSS(38) VSS(117) AR48

AD46 VSS(39) VSS(118) AT11

AD8 VSS(40) VSS(119) AT13

AE2 VSS(41) VSS(120) AT18

AE3 VSS(42) VSS(121) AT22

AF10 VSS(43) VSS(122) AT26

AF12 VSS(44) VSS(123) AT28

AD14 VSS(45) VSS(124) AT30

AD16 VSS(46) VSS(125) AT32

AF16 VSS(47) VSS(126) AT34

AF19 VSS(48) VSS(127) AT39

AF24 VSS(49) VSS(128) AT42

AF26 VSS(50) VSS(129) AT46

AF27 VSS(51) VSS(130) AT7

AF29 VSS(52) VSS(131) AU24

AF31 VSS(53) VSS(132) AU24

AF38 VSS(54) VSS(133) AU24

AF4 VSS(55) VSS(134) AU24

AF42 VSS(56) VSS(135) AU30

AF46 VSS(57) VSS(136) AV16

AF5 VSS(58) VSS(137) AV20

AF7 VSS(59) VSS(138) AV24

AF8 VSS(60) VSS(139) AV30

AG19 VSS(61) VSS(140) AV38

AG2 VSS(62) VSS(141) AV4

AG31 VSS(63) VSS(142) AV43

AG48 VSS(64) VSS(143) AV8

AH11 VSS(65) VSS(144) AW14

AH3 VSS(66) VSS(145) AW18

AH36 VSS(67) VSS(146) AW2

AH39 VSS(68) VSS(147) AW22

AH40 VSS(69) VSS(148) AW26

AH42 VSS(70) VSS(149) AW28

AH46 VSS(71) VSS(150) AW32

AH7 VSS(72) VSS(151) AW34

A319 VSS(73) VSS(152) AW36

A321 VSS(74) VSS(153) AW40

A324 VSS(75) VSS(154) AW48

A333 VSS(76) VSS(155) AY11

A334 VSS(77) VSS(156) AY12

AK12 VSS(78) VSS(157) AY22

AK3 VSS(79) VSS(158) AY26

ITL COUGARPOINT_FCBGA 989P

U28-9

AY4 VSS(159) VSS(259) H46

AY42 VSS(160) VSS(260) K18

AY46 VSS(161) VSS(261) K26

AY8 VSS(162) VSS(262) K39

B11 VSS(163) VSS(263) K46

B15 VSS(164) VSS(264) K7

B19 VSS(165) VSS(265) L2

B23 VSS(166) VSS(266) L20

B27 VSS(167) VSS(267) L26

B31 VSS(168) VSS(268) L28

B35 VSS(169) VSS(269) L36

B39 VSS(170) VSS(270) L48

B7 VSS(171) VSS(271) M12

B46 VSS(172) VSS(272) P16

BB12 VSS(173) VSS(273) M18

BB16 VSS(174) VSS(274) M22

BB20 VSS(175) VSS(275) M24

BB22 VSS(176) VSS(276) M30

BB24 VSS(177) VSS(277) M32

BB28 VSS(178) VSS(278) M34

BB39 VSS(179) VSS(279) M4

BB38 VSS(180) VSS(280) M42

BB4 VSS(181) VSS(281) M46

BB46 VSS(182) VSS(282) M48

BC14 VSS(183) VSS(283) M48

BC18 VSS(184) VSS(284) N18

BC2 VSS(185) VSS(285) P30

BC22 VSS(186) VSS(286) M47

BC26 VSS(187) VSS(287) P18

BC32 VSS(188) VSS(288) T33

BC34 VSS(189) VSS(289) P40

BC36 VSS(190) VSS(290) P42

BC40 VSS(191) VSS(291) P47

BC42 VSS(192) VSS(292) P7

BC48 VSS(193) VSS(293) R2

BD46 VSS(194) VSS(294) R48

BD5 VSS(195) VSS(295) T12

BE22 VSS(196) VSS(296) T31

BE26 VSS(197) VSS(297) T37

BE40 VSS(198) VSS(298) T4

BF10 VSS(199) VSS(299) W34

BF12 VSS(200) VSS(300) T46

BF16 VSS(201) VSS(301) T47

BF20 VSS(202) VSS(302) T8

BF22 VSS(203) VSS(303) V11

BF24 VSS(204) VSS(304) V17

BF26 VSS(205) VSS(305) V26

BF28 VSS(206) VSS(306) V27

BF30 VSS(207) VSS(307) V29

BF38 VSS(208) VSS(308) V31

BF39 VSS(209) VSS(309) V39

BF40 VSS(210) VSS(310) V43

BF8 VSS(211) VSS(311) V47

BG17 VSS(212) VSS(312) W17

BG21 VSS(213) VSS(313) W19

BG23 VSS(214) VSS(314) W2

BG44 VSS(215) VSS(315) W27

BG48 VSS(216) VSS(316) W28

BH11 VSS(217) VSS(317) Y12

BH15 VSS(218) VSS(318) Y38

BH17 VSS(219) VSS(319) Y4

BH19 VSS(220) VSS(320) Y42

H10 VSS(221) VSS(321) Y46

BH27 VSS(222) VSS(322) Y8

BH31 VSS(223) VSS(323) BG28

BH33 VSS(224) VSS(324) N24

BH35 VSS(225) VSS(325) A33

BH39 VSS(226) VSS(326) AD47

BH43 VSS(227) VSS(327) R43

BH7 VSS(228) VSS(328) BE10

D3 VSS(229) VSS(329) BG41

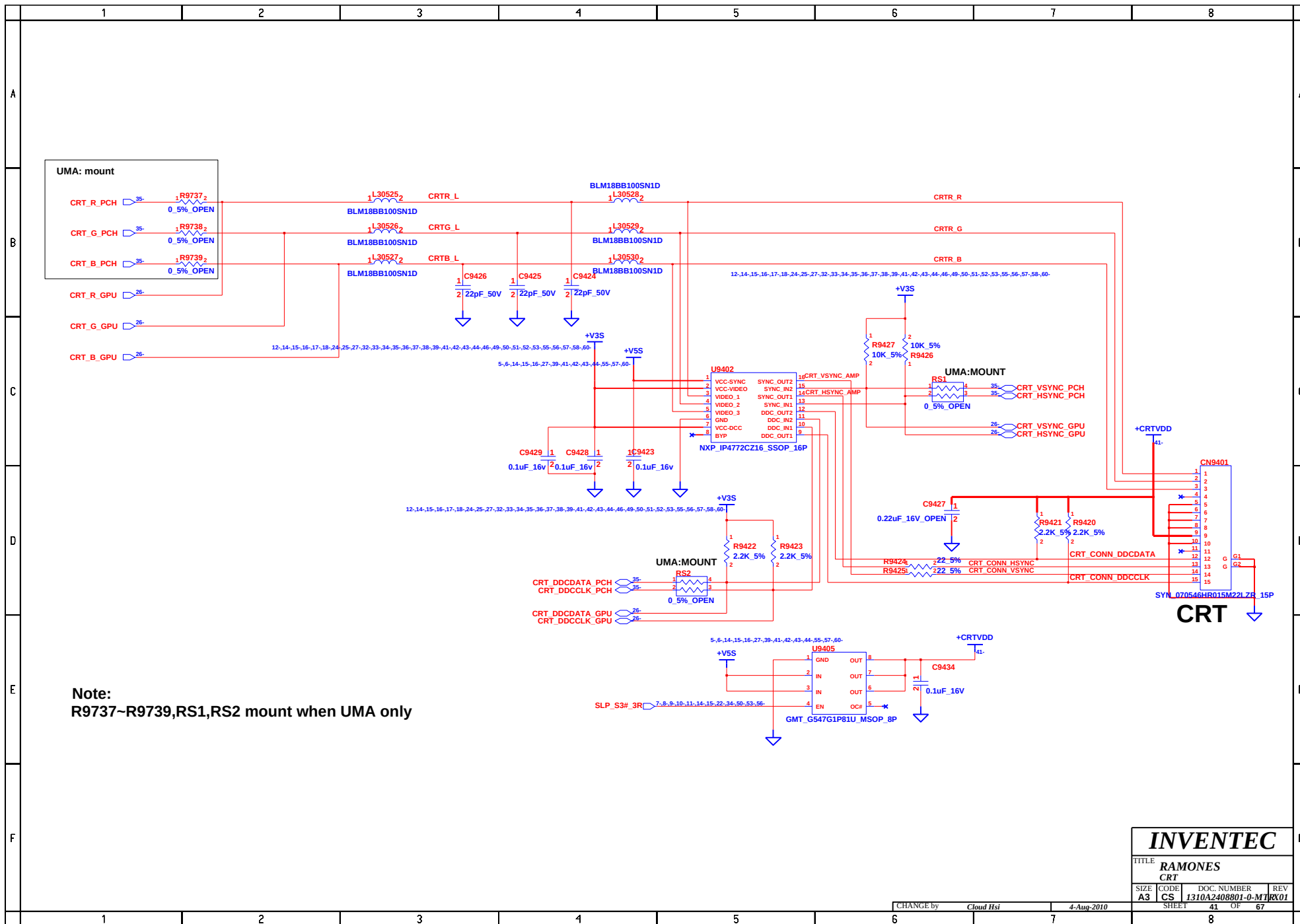
D12 VSS(230) VSS(330) G14

D16 VSS(231) VSS(331) H16

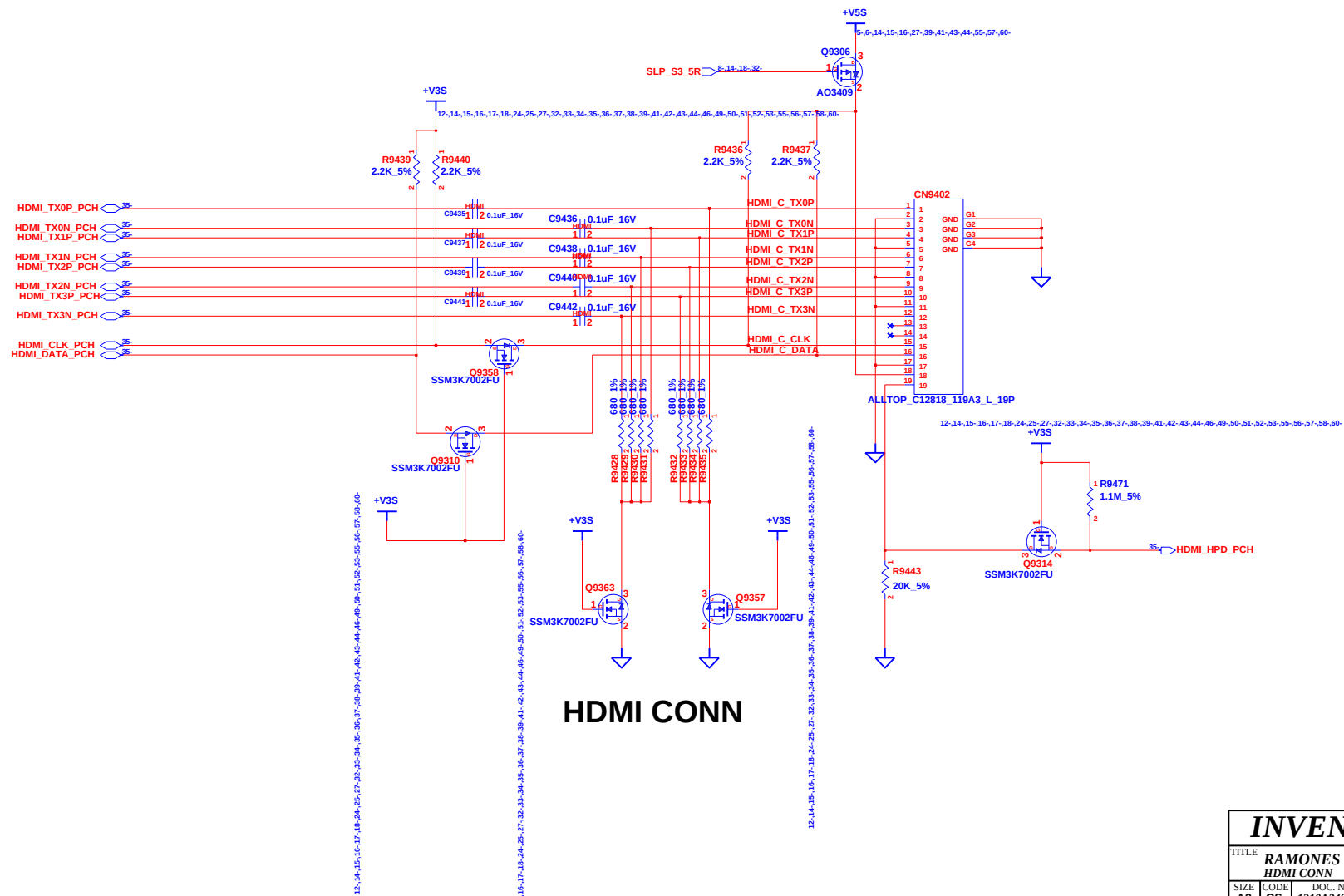
D18 VSS(232) VSS(332) T36

D22 VSS(233) VSS(333) BG22

D24 VSS(234) VSS(3



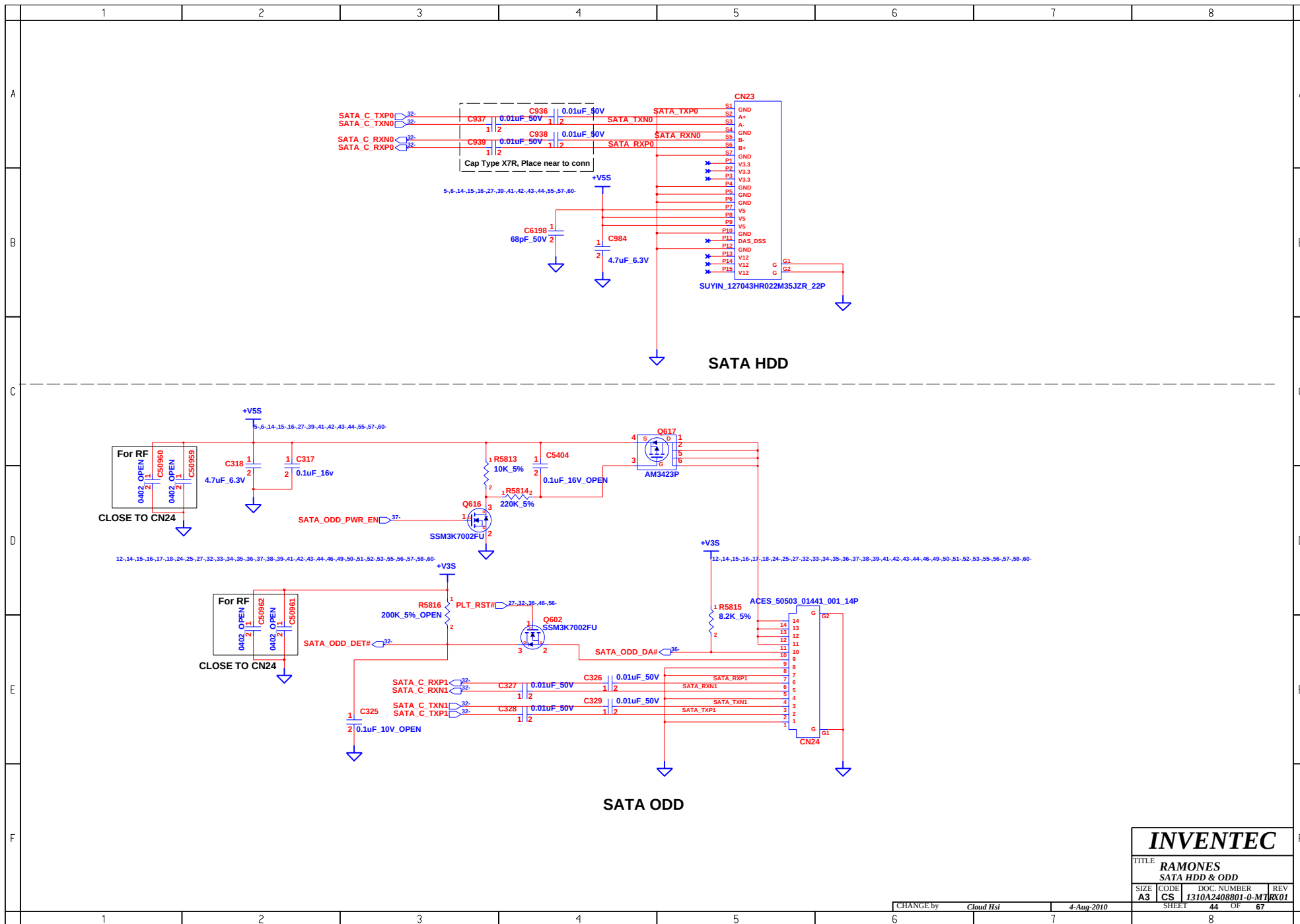
INVENTEC			
TITLE RAMONES CRT			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-MT	REV R001
CHANGE by Cloud Hsi		4-Aug-2010	
SHEET 41		OF 67	



INVENTEC

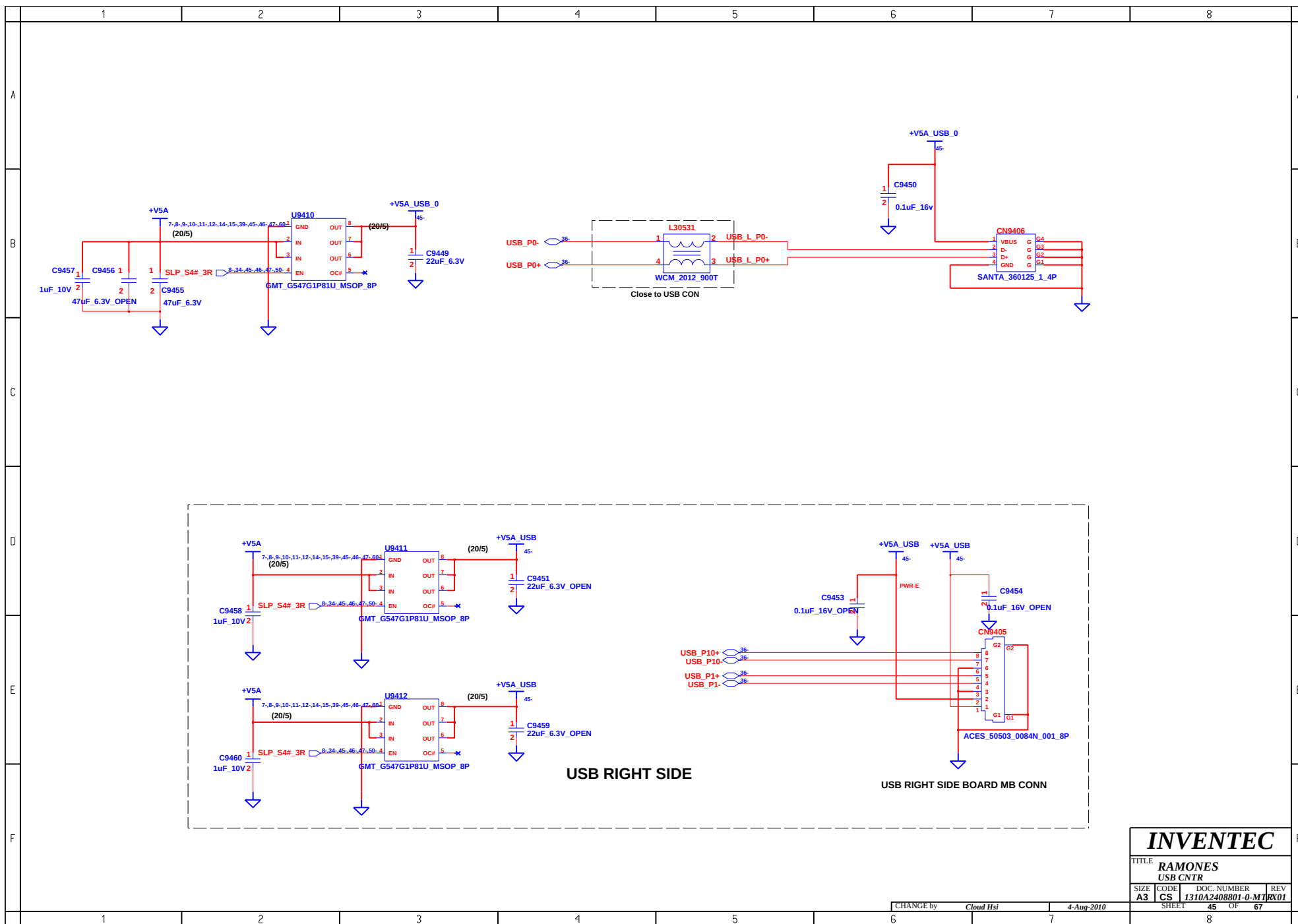
TITLE RAMONES HDMI CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-MT	REV R001
SHEET 42		OF 67	

CHANGE by **Cloud Hsi** 4-Aug-2010



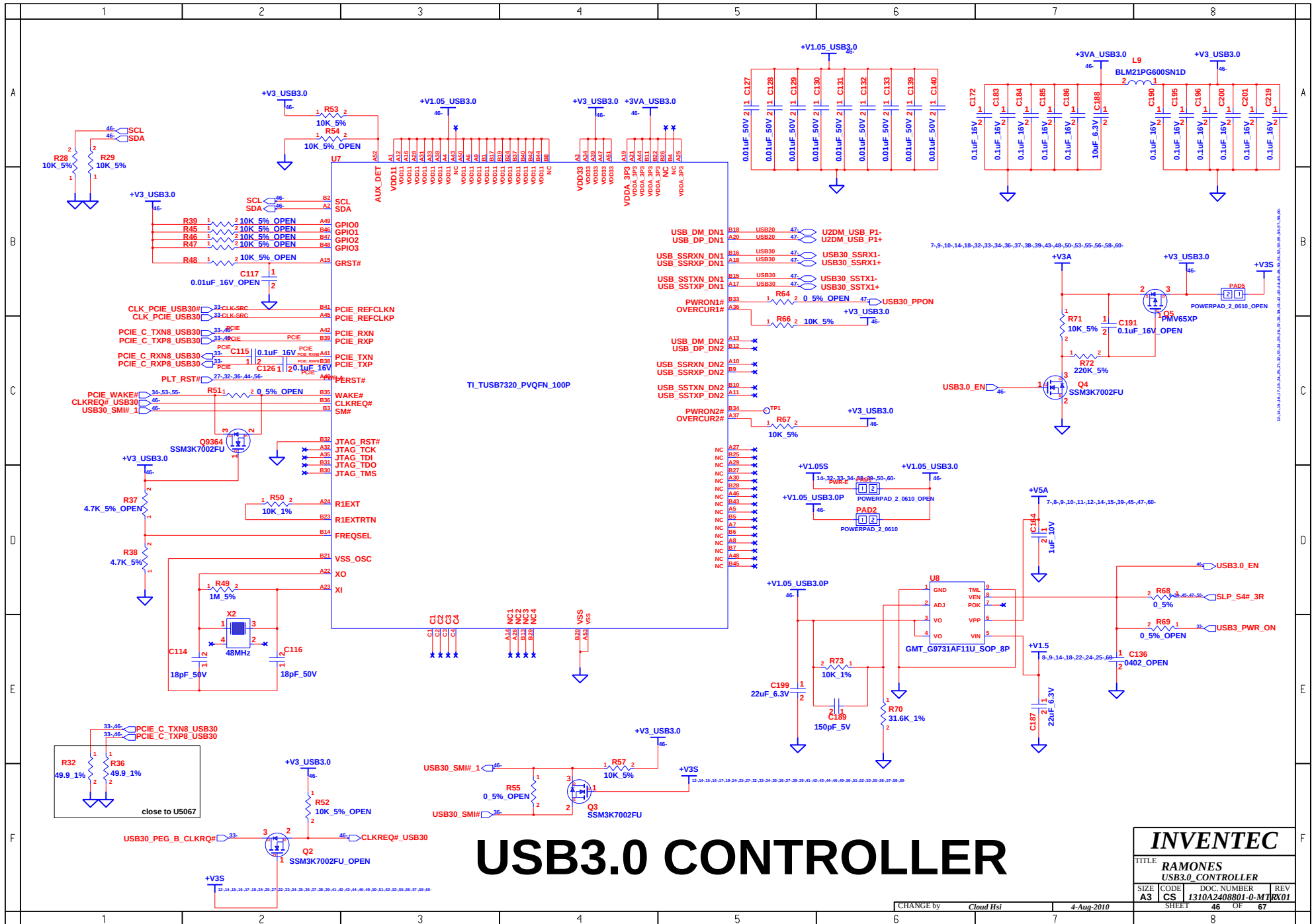
INVENTEC			
TITLE RAMONES SATA HDD & ODD			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
SHEET 44		OF 67	

CHANGE by Cloud Hsi 4-Aug-2010



INVENTEC

TITLE RAMONES USB CNTR			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
CHANGE by <i>Cloud Hsi</i>		4-Aug-2010	
SHEET 45		OF 67	



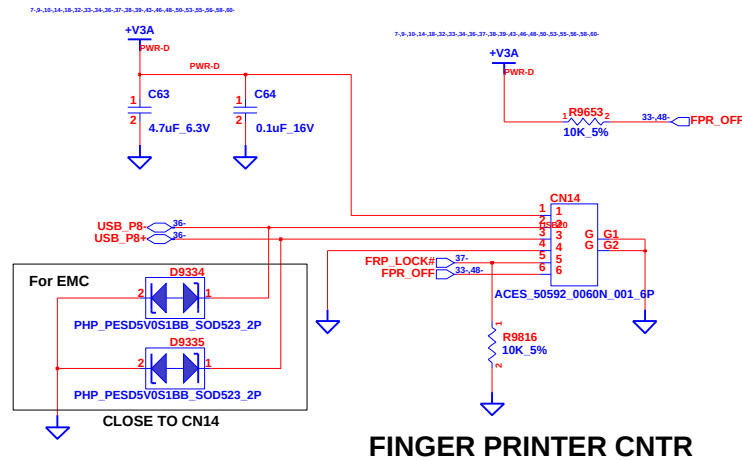
USB3.0 CONTROLLER

INVENTEC

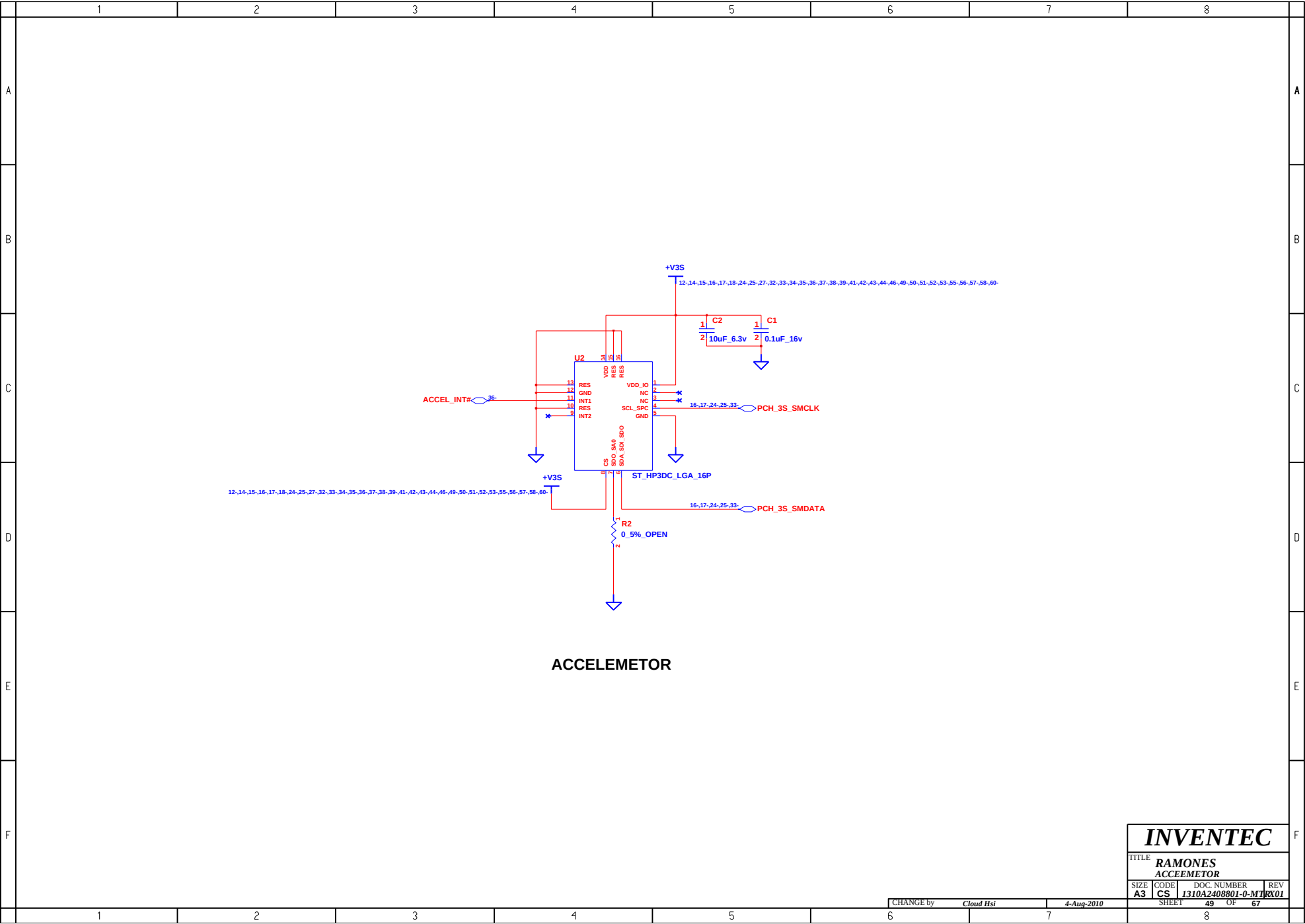
TITLE			
RAMONES			
USB3.0 CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	R001
SHEET		46	OF 67

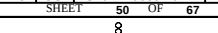
CHANGE by Cloud Hsi 4-Aug-2010



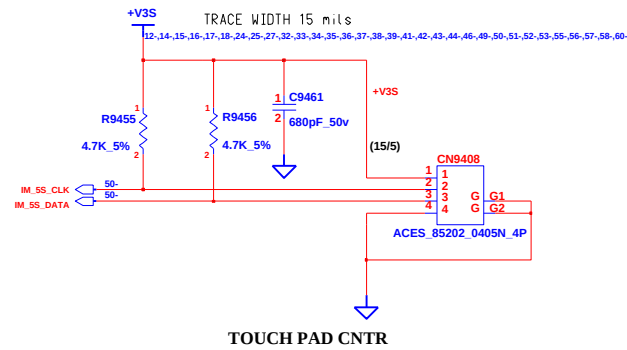
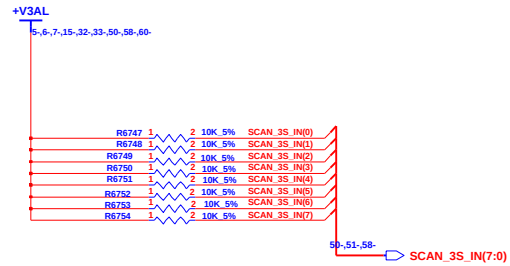
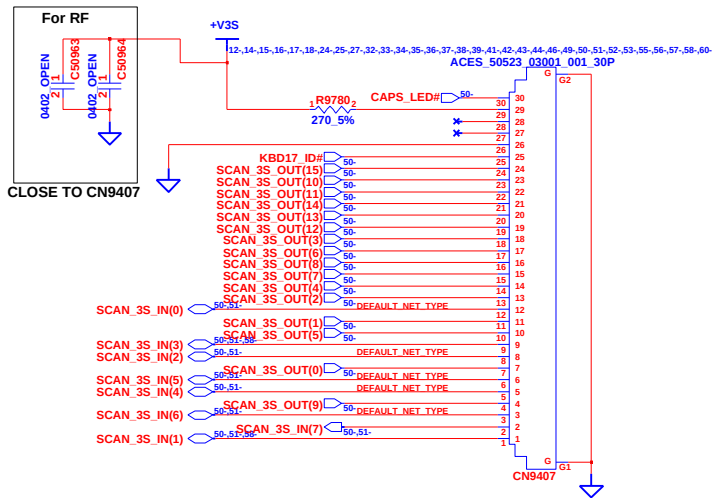


INVENTEC			
TITLE RAMONES			
FINGER PRINTER			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
CHANGE by Cloud Hsi		4-Aug-2010	
SHEET 48		OF 67	

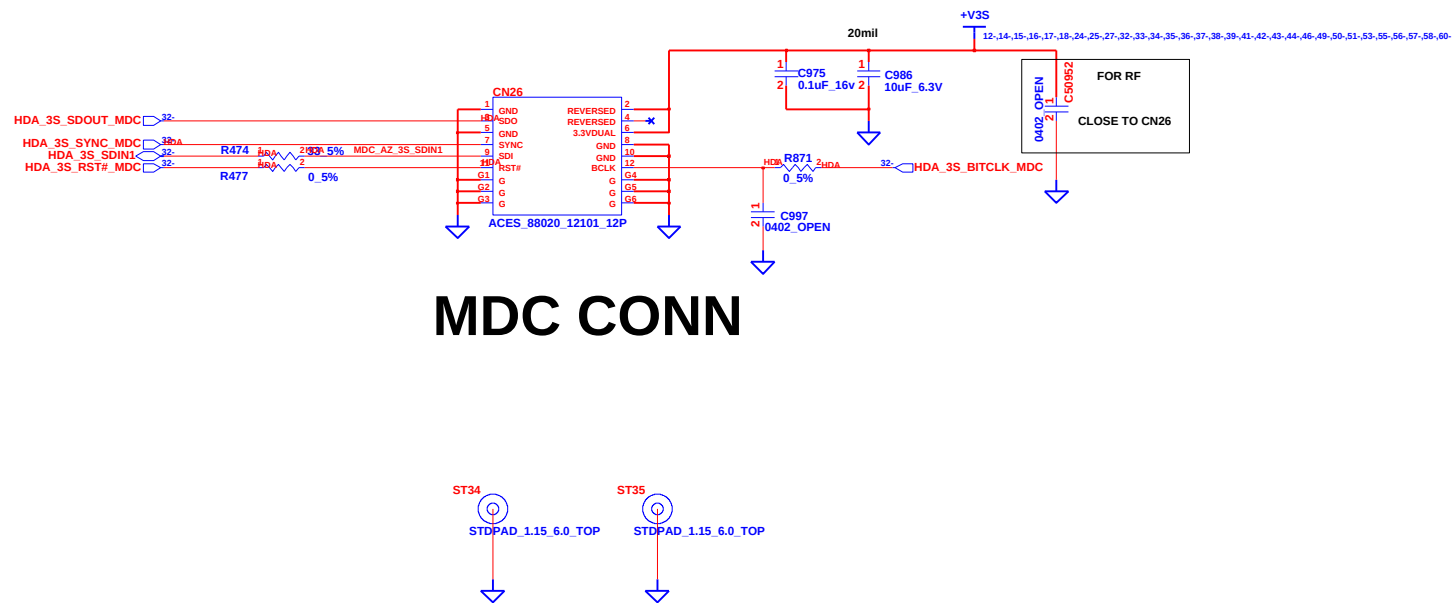




PIN NAME	LEVEL	PANEL SIZE
KBD17_ID#	HIGH	15
	LOW	17

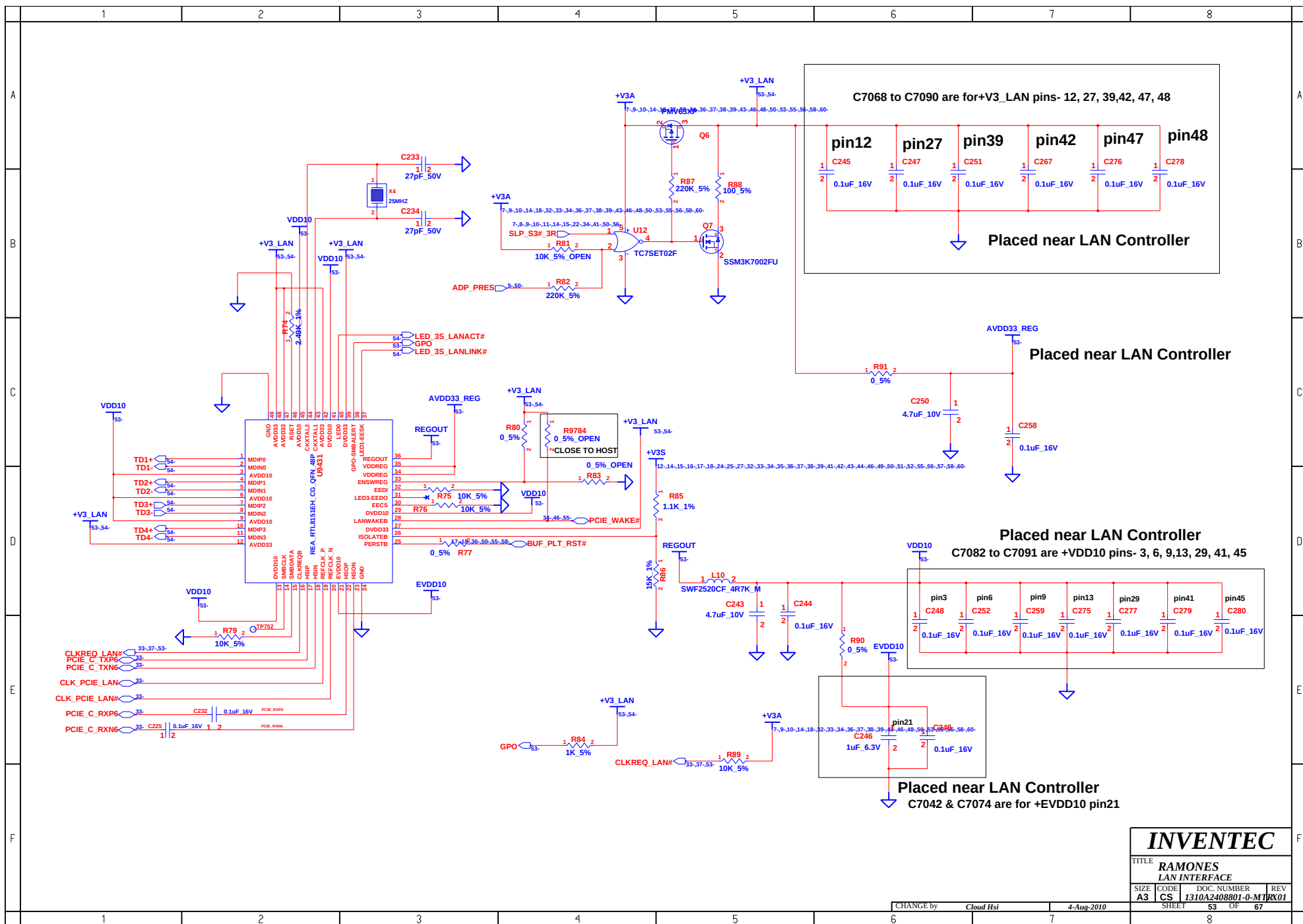


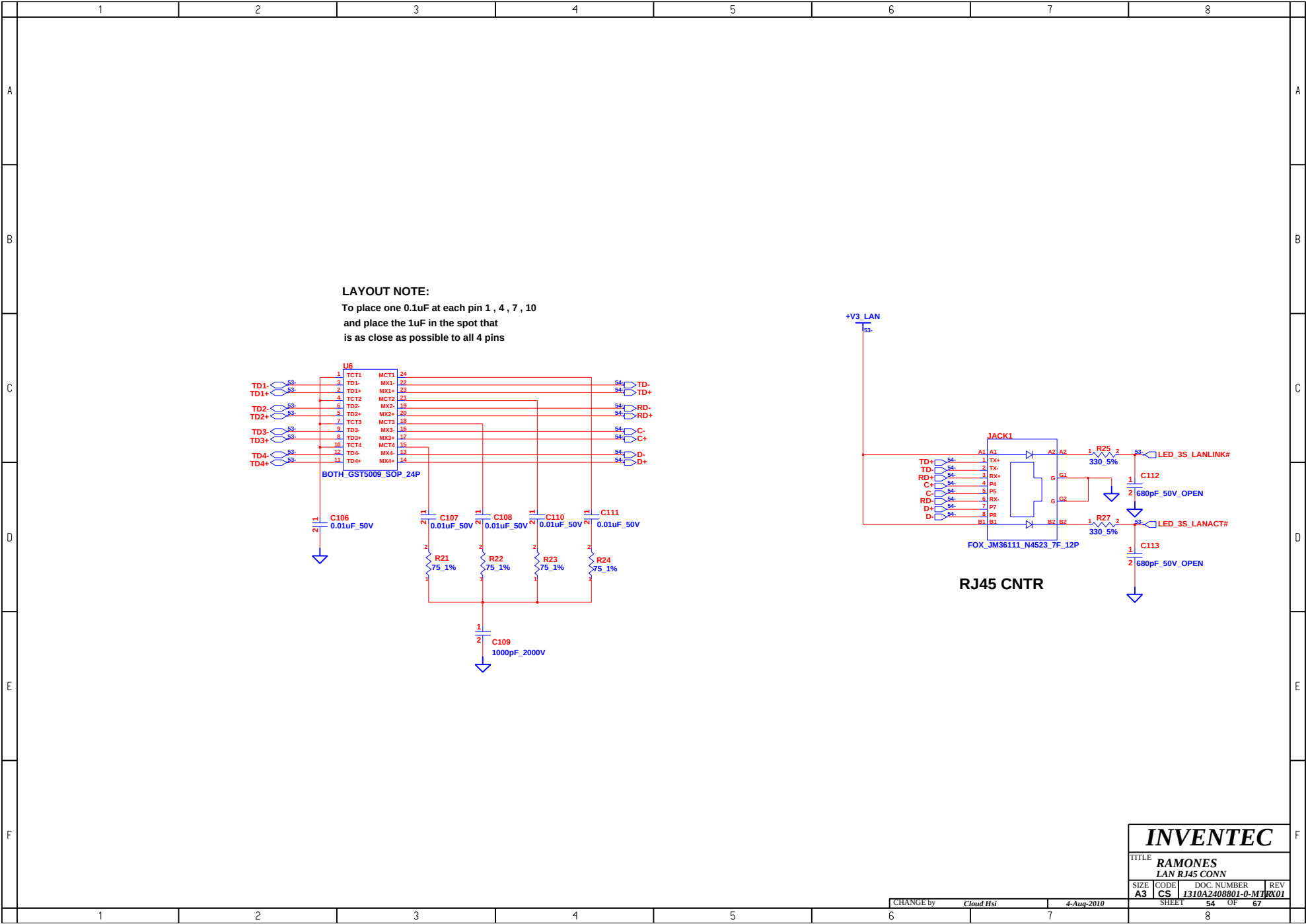
INVENTEC			
TITLE			
RAMONES			
KEYBOARD & TOUCH PAD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	001
CHANGE by		Cloud Hsi	4-Aug-2010
SHEET		51	OF 67

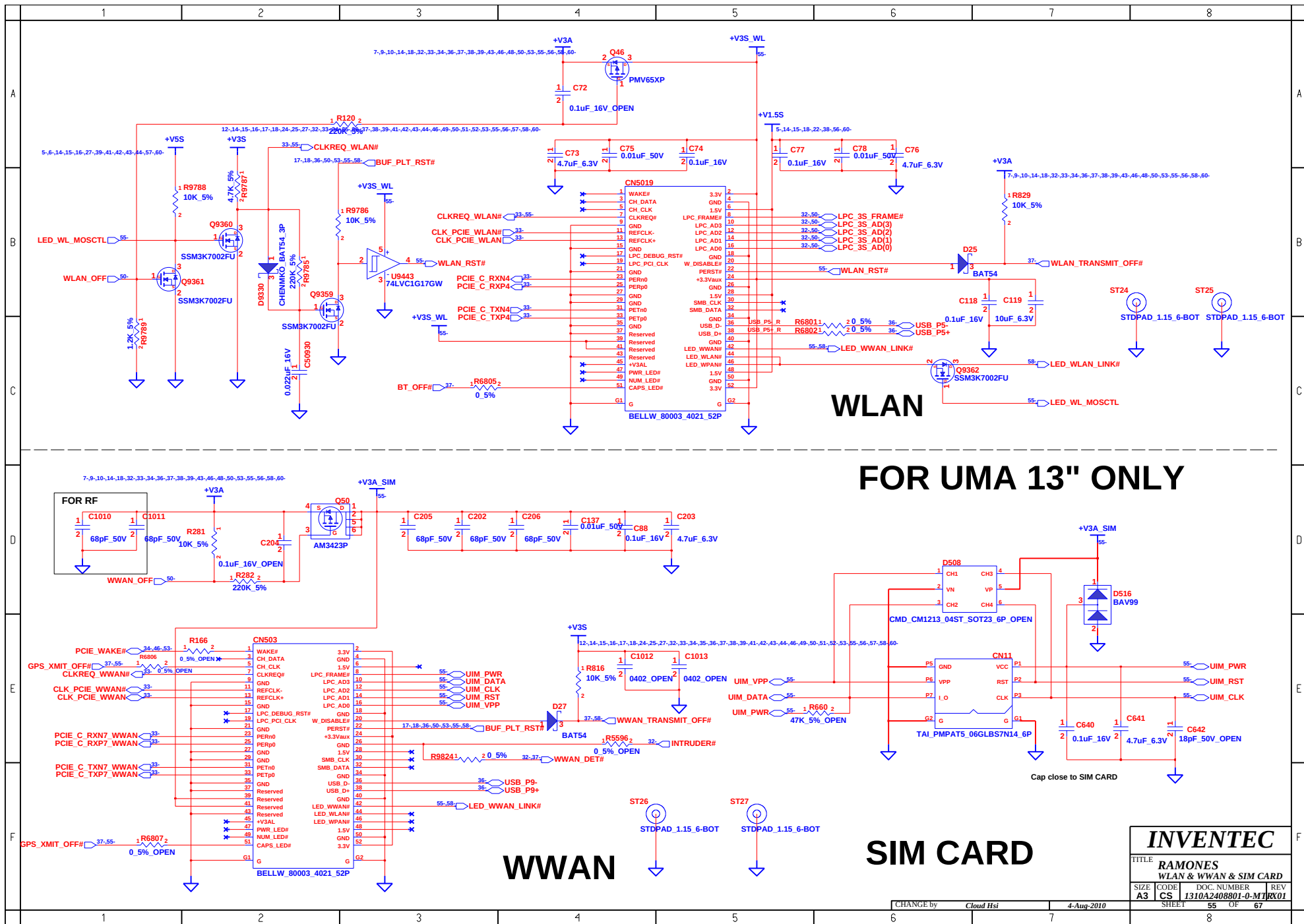


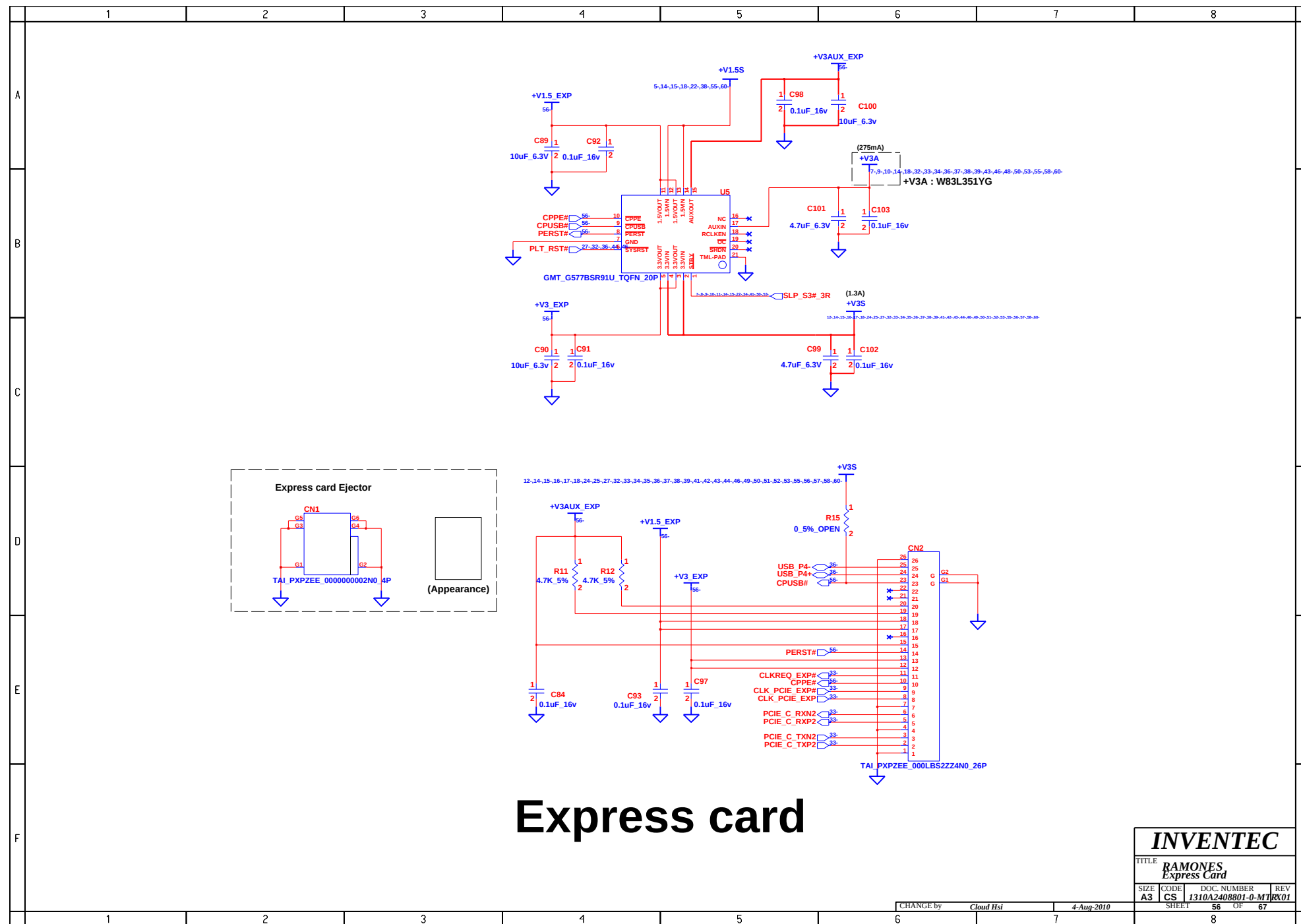
MDC CONN

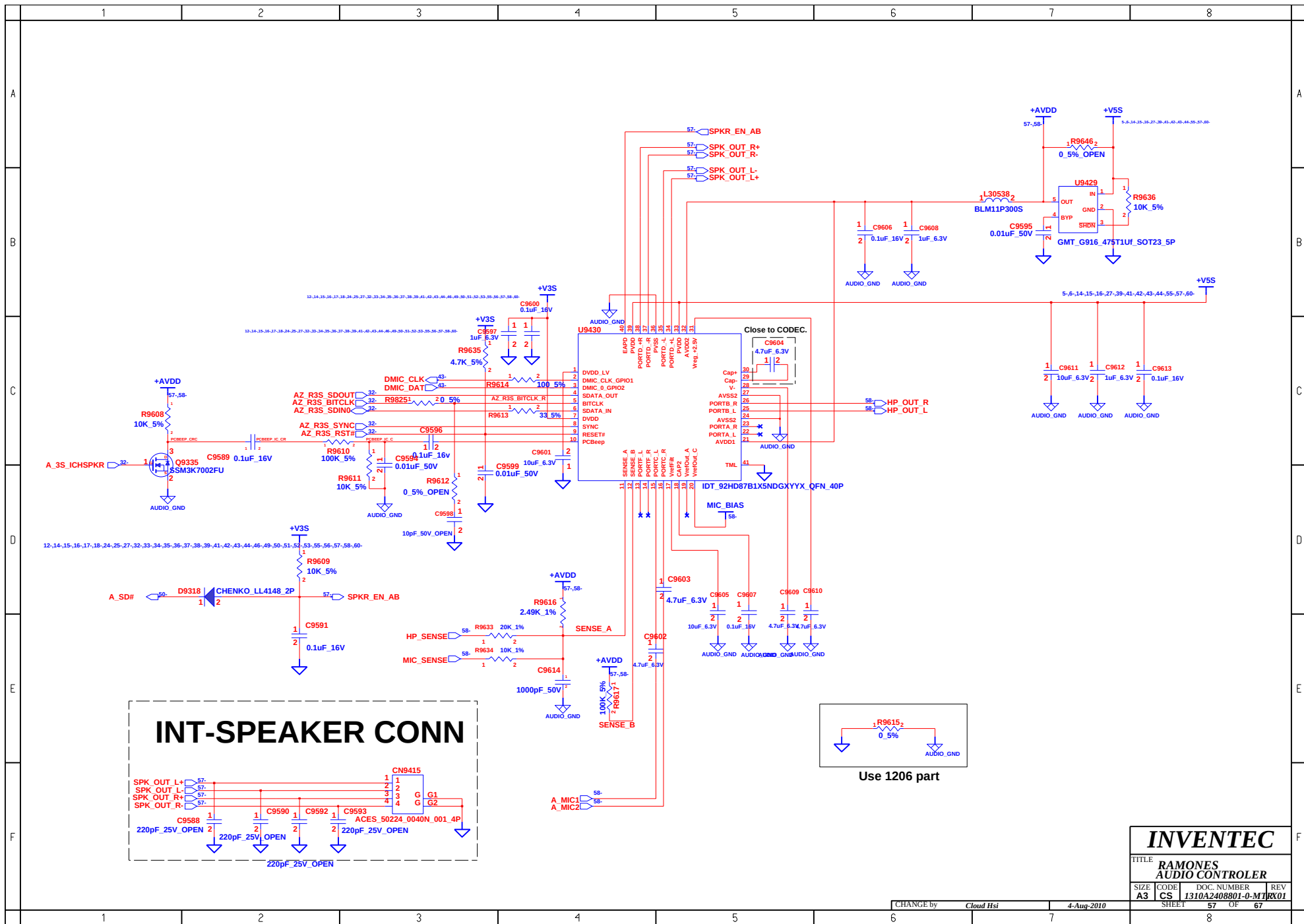
INVENTEC			
TITLE RAMONES			
MDC			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R001
CHANGE by Cloud Hsi		4-Aug-2010	
SHEET		52	OF 67



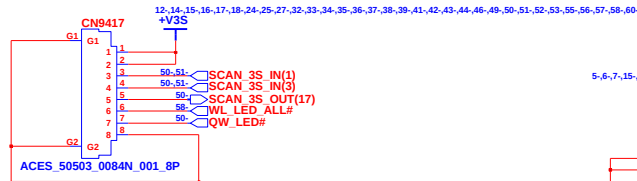




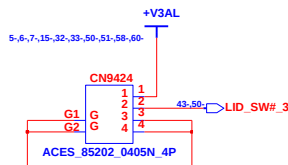




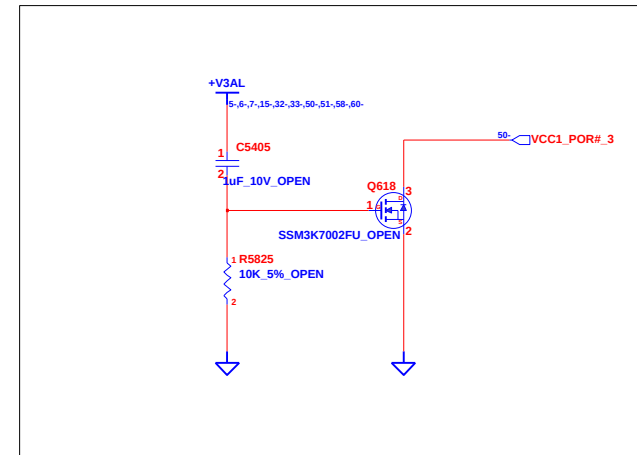
INVENTEC			
TITLE RAMONES AUDIO CONTROLLER			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-M1	REV R01
CHANGE by Cloud Hsi		4-Aug-2010	
SHEET 57		OF 67	



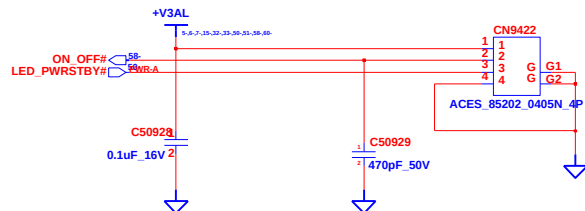
For QUICK LAUNCH BOARD MB CONN



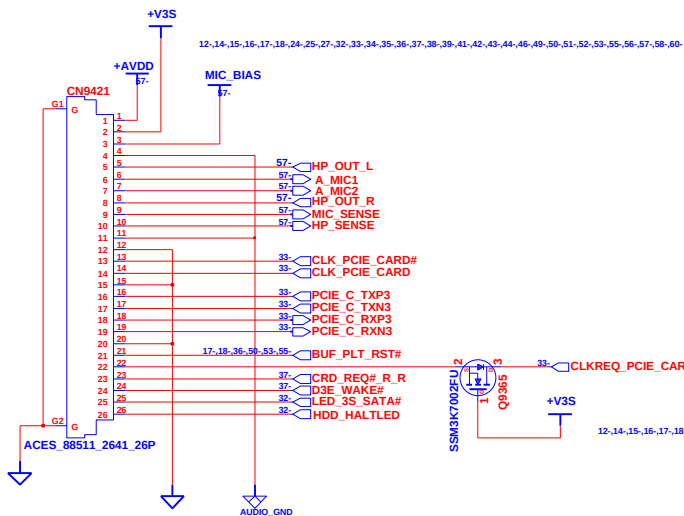
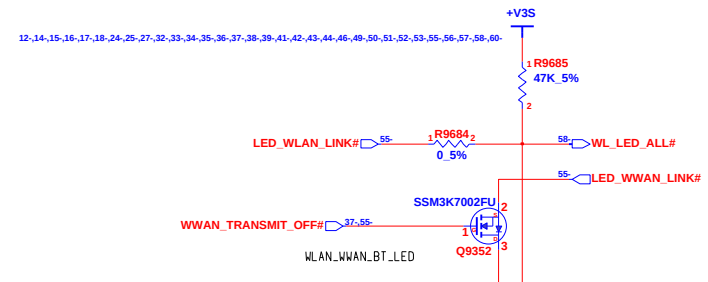
For LID SWITCH BOARD MB CONN



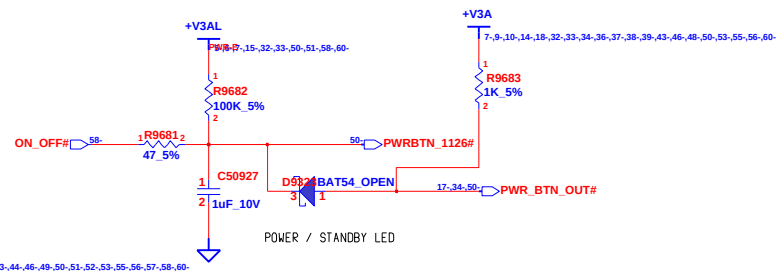
CLOSE TO KBC



For POWER BUTTON BOARD MB CONN



For CardReader&AUDIO Jack BOARD MB CONN



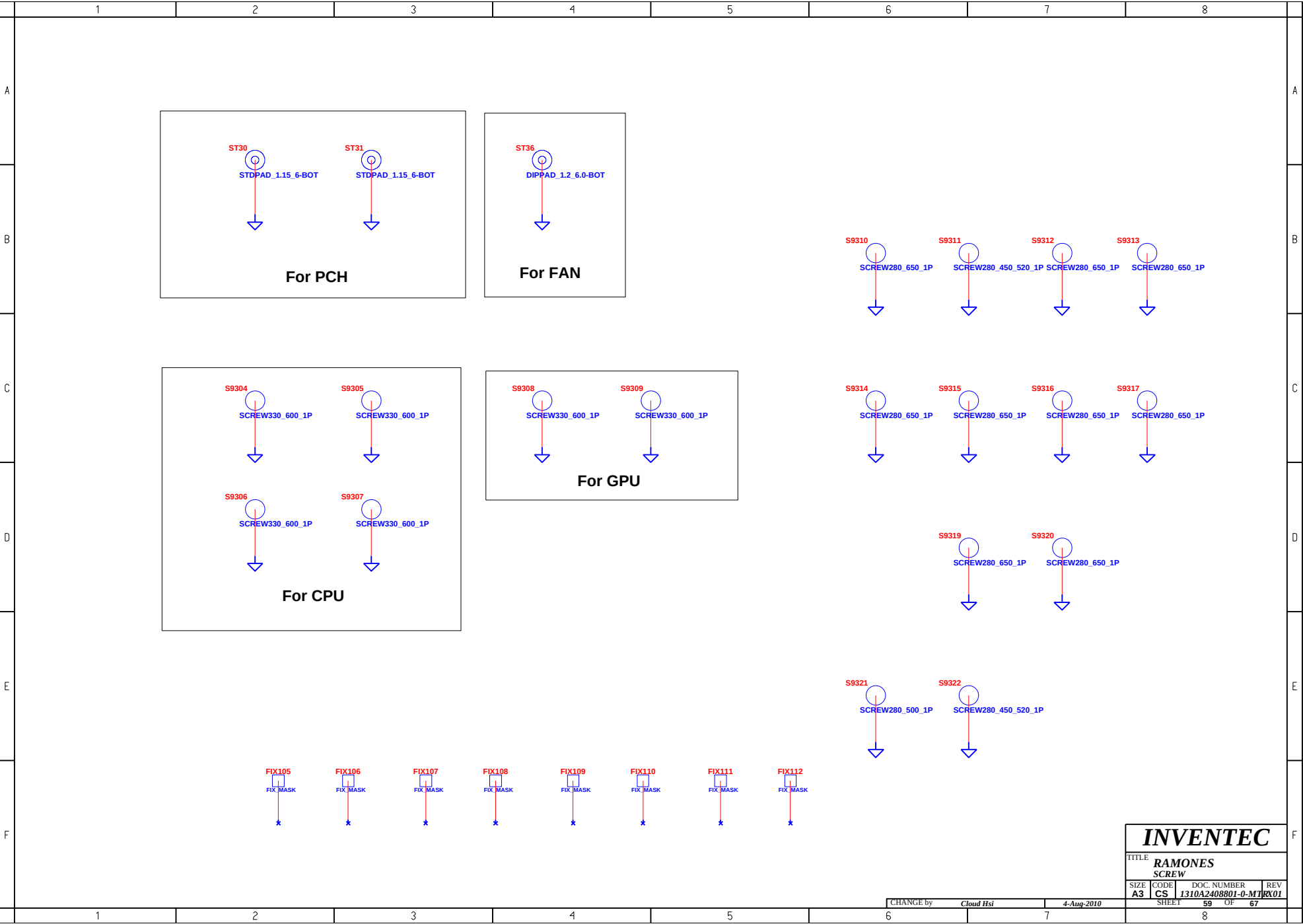
INVENTEC

TITLE
RAMONES
Power Button MB Conn

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	R001

CHANGE by Cloud Hsi 4-Aug-2010

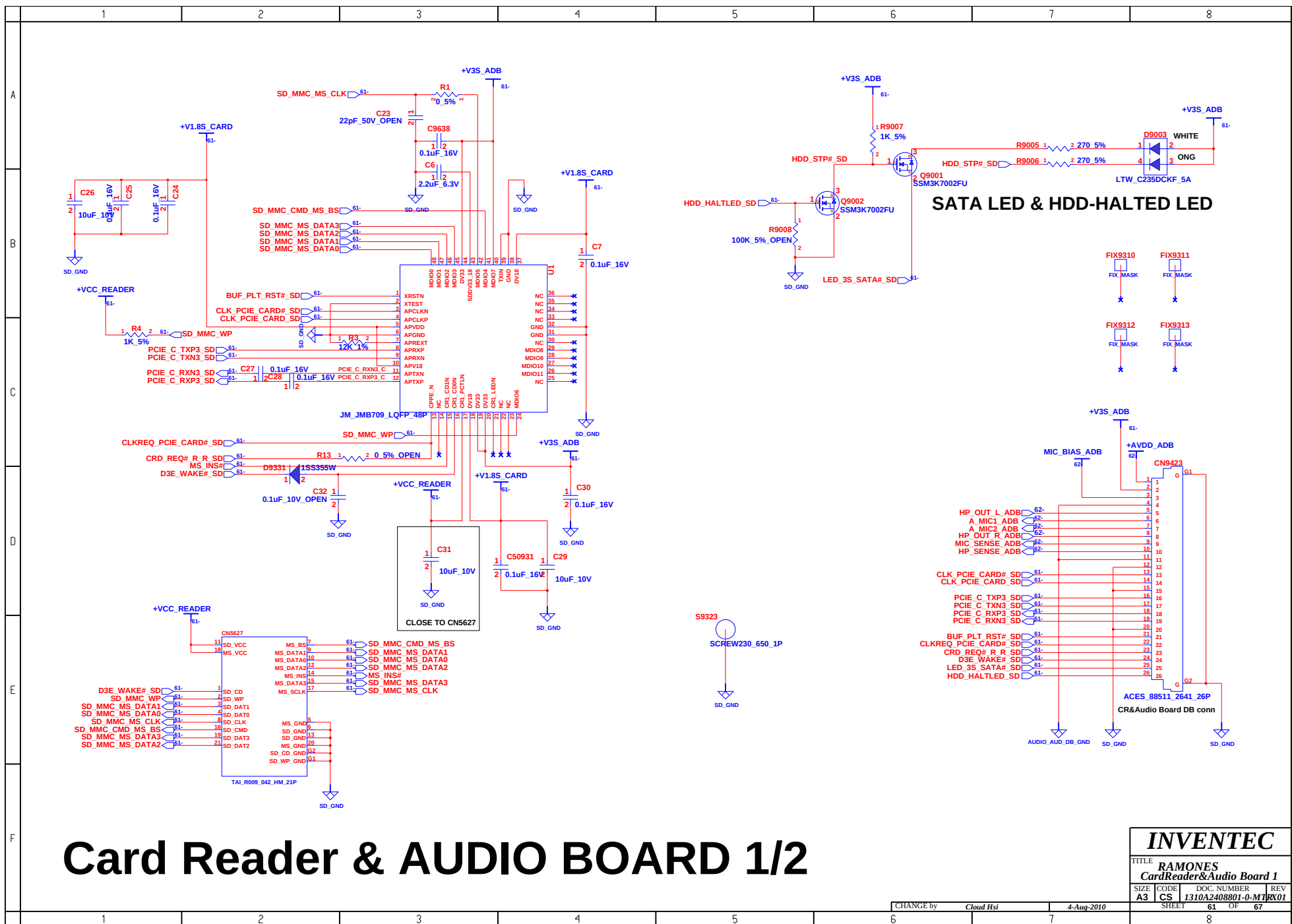
SHEET 58 OF 67

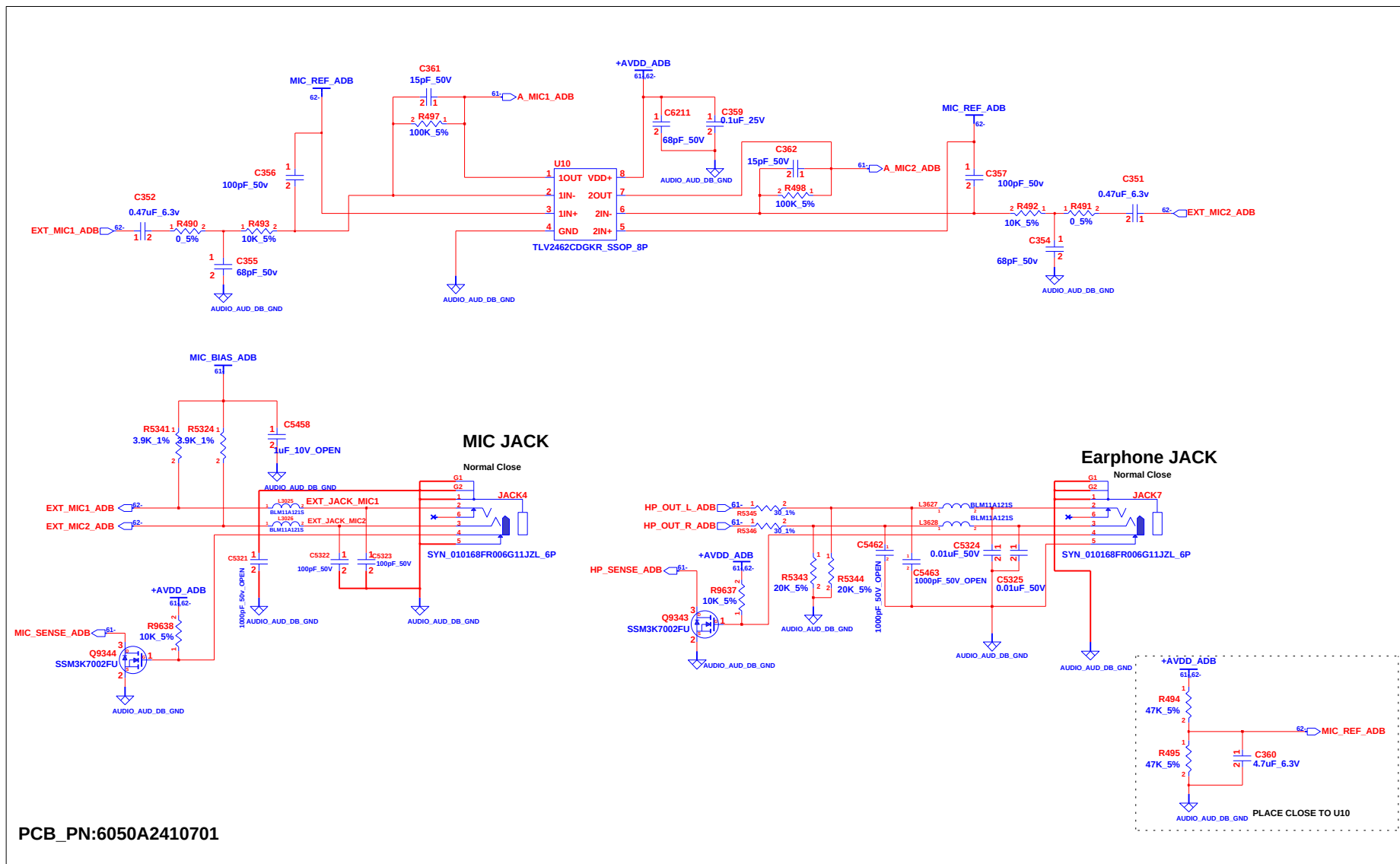


INVENTEC

TITLE			
RAMONES			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-MT	RC01
SHEET		59	OF 67

CHANGE by Cloud Hsi 4-Aug-2010





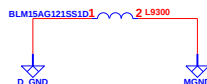
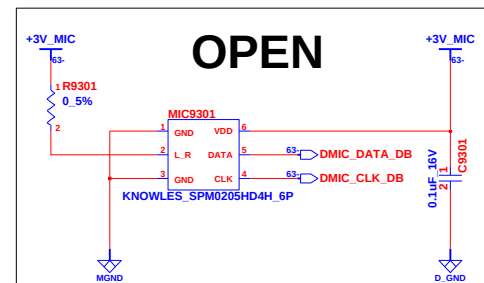
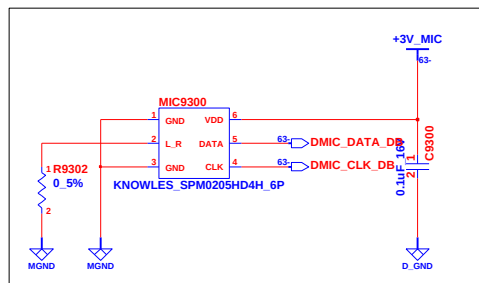
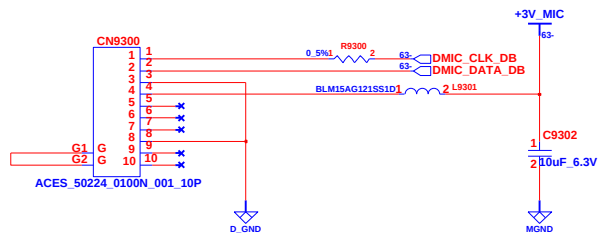
Card READER & AUDIO BOARD 2/2

INVENTEC

TITLE: **RAMONES**
Card Reader & Audio Board 2

SIZE: A3 CODE: CS DOC. NUMBER: 1310A2408801-0-M1 REV: R01
SHEET: 62 OF 67

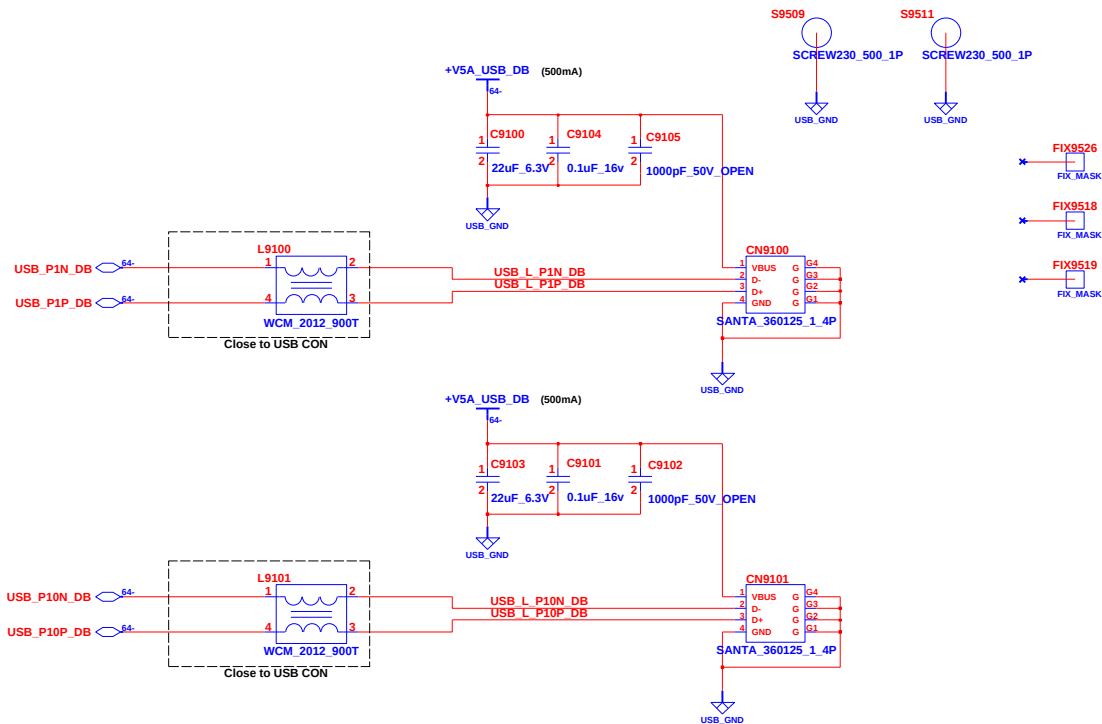
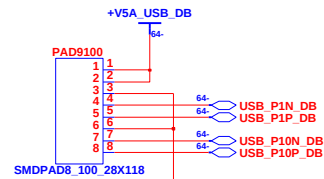
CHANGE by: Cloud Hsi 4-Aug-2010



DIGITAL MIC BOARD (PCBA the same with 13"/14")

PCB_PN:6050A2412501

INVENTEC			
TITLE RAMONES DIGITAL MIC DB			
SIZE A3	CODE CS	DOC. NUMBER 1310A2408801-0-MT	REV R001
CHANGE by Cloud Hsi		4-Aug-2010	
SHEET 63		OF 67	

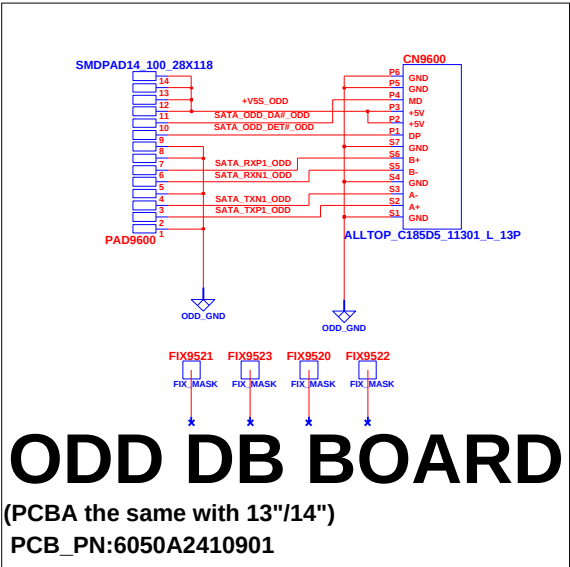
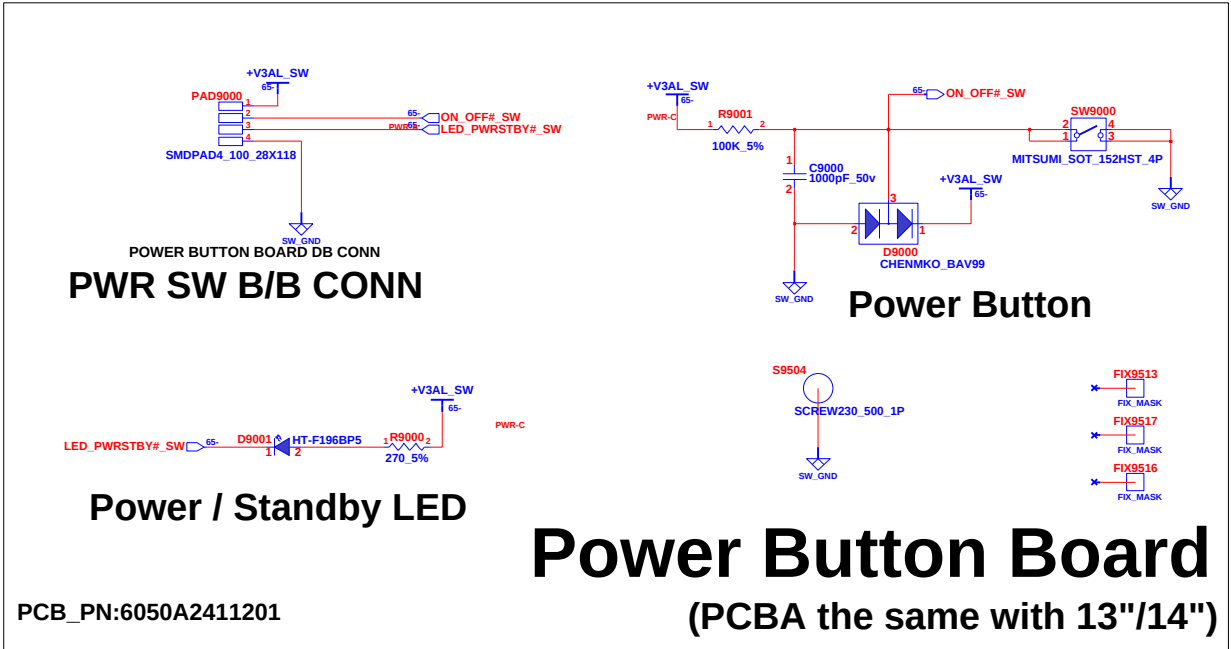


USB Right Side Board

(PCBA the same wltH 13"/14")

PCB_PN:6050A2411401

INVENTEC			
TITLE			
RAMONES			
USB RIGHT SIDE DB BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-M1	R001
CHANGE by		Cloud Hsi	27-Aug-2010
SHEET		64	OF 67



INVENTEC

TITLE
**RAMONES
POWER BUTTON BOARD**

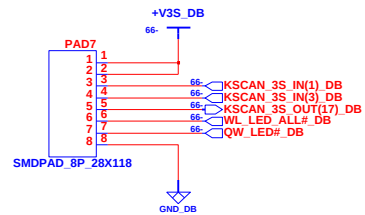
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2408801-0-M	101

SHEET	OF
65	67

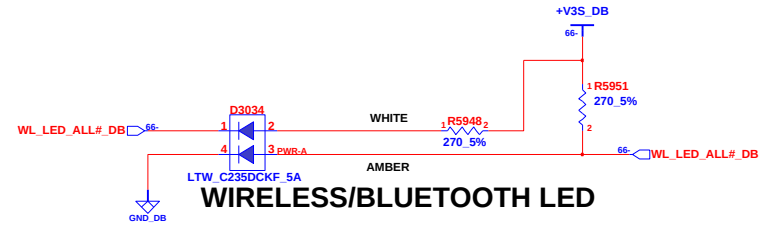
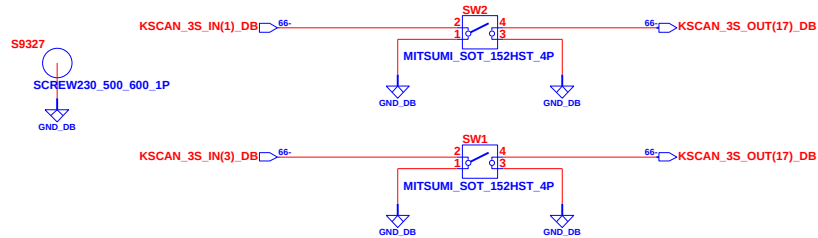
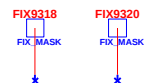
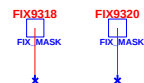
CHANGE by Cloud Hsi 4-Aug-2010

Quick Launch Board

PCB_PN:6050A2410501

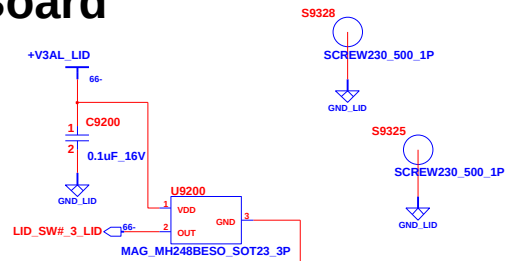
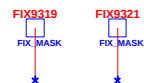
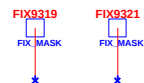
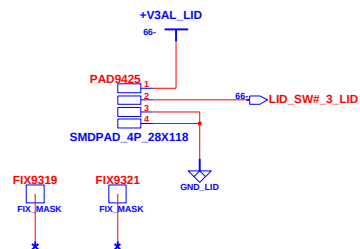


QUICK LAUCH BOARD DB CONN



LID SWITCH BOARD Board

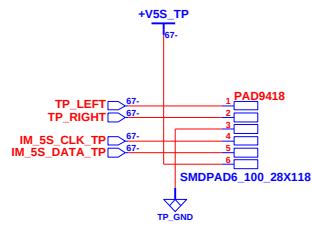
PCB_PN:6050A2414801



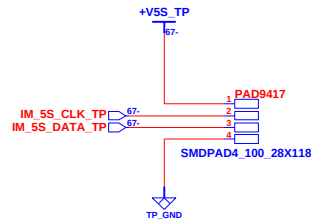
LID SWITCH
Reference Number 9200-9299

INVENTEC			
TITLE: RAMONES QUICK LAUCH&WLAN BOARD			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2408801-0-M1	REV: R001
SHEET: 66		OF: 67	

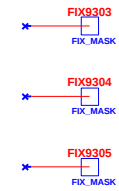
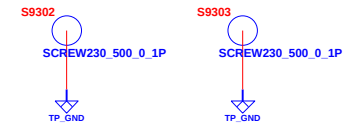
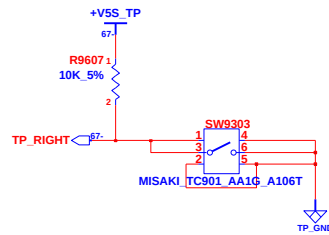
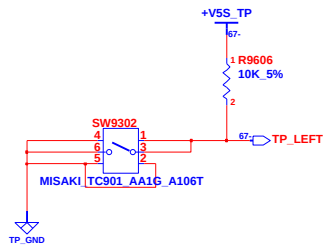
CHANGE by Cloud Hsi 4-Aug-2010



LEFT BUTTON



RIGHT BUTTON



PCB_PN:6050A2410601

PICK Button Board

INVENTEC			
TITLE: RAMONES TOUCH BOTTOM BOARD			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2408801-0-MT	REV: R001
CHANGE by: Cloud Hsi		27-Aug-2010	
SHEET: 67		OF: 67	