8 Schematic Diagrams and PCB Silkscreen

8-1 MAIN BOARD

8-1-1 Schematic Diagrams

OSCAR-G

CPU : Intel P-M DOTHAN
Chip Set : ATI RC300MD + SB150
Remarks : Additional USB Controller Used

Model Name : Oscar-G
PBA Name :
PCB Code : BA41-00478A
Dev. Step : MP
Revision : 1.1
T.R. Date : 2004-12-11

DRAW	CHECK	APPROVAL

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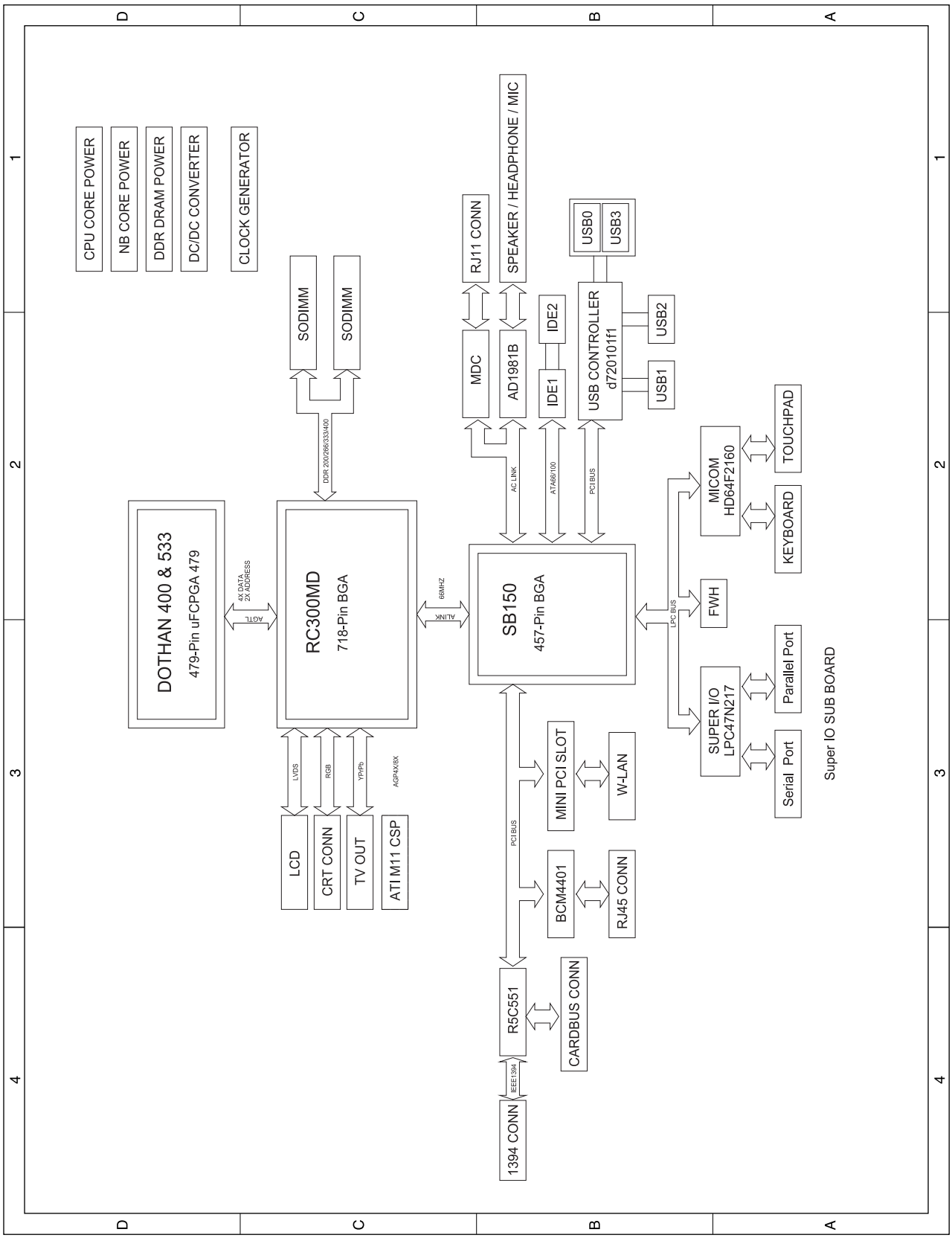
8-1-1(a) Main Board Schematic Sheet 2 of 51(Block Diagram)



SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

PCI DEVICES

DEVICES	IDSEL#	REQ/GNT#	INTERRUPTS
MINIPCI	AD19	0	C, A
CARDBUS CONTROLLER	AD20	1	A, B
LAN CONTROLLER	AD21	2	C
USB CONTROLLER	AD22	3	D, C, B

VOLTAGE RAILS

	POWER	VOLTAGE	ACTIVE SCOPE	PAGE	REMARKS
SYSTEM	VDC	8-19V	S0-S5	49	
	P5V	5V	OFF IN S3-S5	49	
	P5V_ALW	5V	S0-S5	45	SWITCHED FROM VDC
	P3.3V	3.3V	OFF IN S3-S5	45	SWITCHED FROM P3.3V_AUX
	P3V_MICOM	3.3V	S0-S5	45	SWITCHED FROM VDC
	P3.3V_AUX	3.3V	S0-S3	49	
	P1.5V_AUX	1.5V	S0-S3	48	
	P1.25V	1.25V	S0-S3	43	
CPU	VCC_CORE	VID[5:0]	OFF IN S3-S5	46	
	VCCP	1.05V	OFF IN S3-S5	47	
RC300MD	AVDD_NB	2.5V	OFF IN S3-S5	15	SWITCHED FROM P2.5V
	P2.5V_AUX	2.5V	S0-S3	43	
	P1.8V	1.8V	OFF IN S3-S5	48	
	AVDDQ	1.8V	OFF IN S3-S5	15	SWITCHED FROM P1.8V
	PLVDD	1.8V	OFF IN S3-S5	15	SWITCHED FROM P1.8V
	VCC_NB	1.5V	OFF IN S3-S5	47	
	P1.5V	1.5V	OFF IN S3-S5	45	SWITCHED FROM P1.5V_AUX
SB150	P3.3V_AVDDC	3.3V	S0-S3	29	SWITCHED FROM P3.3V_AUX
	USB_AVDD	3.3V	S0-S3	29	SWITCHED FROM P3.3V_AUX
	V_BAT	3.0V	S0-S5	27	
	P2.5V	2.5V	OFF IN S3-S5	45	SWITCHED FROM P2.5V_AUX
	AVDD_CK	2.5V	OFF IN S3-S5	29	SWITCHED FROM P2.5V
	P2.5V_AUX_SB	2.5V	S0-S3	29	SWITCHED FROM P2.5V_AUX
	P2.5V_ALW	2.5V	S0-S5	45	SWITCHED FROM P5V_ALW / VDC
GFX	VGA_CORE	1.0/1.2V	OFF IN S3-S5	43	
	P1.8V_VGA	1.8V	OFF IN S3-S5	48	SWITCHED FROM P2.5V_AUX
ETC	VCC_CB	3.3V/5V	OFF IN S3-S5	34	
	VPP_CB	VAR	OFF IN S3-S5	34	
	AVDD	5V	OFF IN S3-S5	36	SWITCHED FROM P5V

I2C / SMB ADDRESS

DEVICES	ADDRESS	HEX	BUS
SOUTH BRIDGE	MASTER	-	SMBUS MASTER
ADM1032(CPU THERMAL SENSOR)	1001 110X	9Ch	THERMAL SENSOR
ADM1032(GFX THERMAL SENSOR)	1001 110X	9Ch	THERMAL SENSOR
SODIMM0	1010 0000	A0h	-
SODIMM1	1010 001X	A2h	-

USB PORT ASSIGN

PORT NUMBER	ASSIGNED TO
0	SYSTEM PORT A
1	SYSTEM PORT B
2	SYSTEM PORT C
3	SYSTEM PORT D
4	RESERVED

CPU CORE VOLTAGE TABLE

	VID5	VID4	VID3	VID2	VID1	VID0	VOLTAGE	VID5	VID4	VID3	VID2	VID1	VID0	VOLTAGE	
	0	0	0	0	0	0	1.708V	1	0	0	0	0	0	1.196V	
	0	0	0	0	0	1	1.692V	1	0	0	0	0	1	1.180V	
	0	0	0	0	1	0	1.676V	1	0	0	0	1	0	1.164V	
	0	0	0	0	1	1	1.660V	1	0	0	0	1	1	1.148V	
	0	0	0	1	0	0	1.644V	1	0	0	1	0	0	1.132V	
	0	0	0	1	0	1	1.628V	1	0	0	1	0	1	1.116V	
	0	0	0	1	1	0	1.612V	1	0	0	1	1	0	1.100V	
	0	0	0	1	1	1	1.596V	1	0	0	1	1	1	1.084V	
	0	0	1	0	0	0	1.580V	1	0	1	0	0	0	1.068V	
	0	0	1	0	0	1	1.564V	1	0	1	0	0	1	1.052V	
	0	0	1	0	1	0	1.548V	1	0	1	0	1	0	1.036V	
	0	0	1	0	1	1	1.532V	1	0	1	0	1	1	1.020V	
	0	0	1	1	0	0	1.516V	1	0	1	1	0	0	1.004V	
	0	0	1	1	0	1	1.500V	1	0	1	1	0	1	0.988V	
	0	0	1	1	1	0	1.484V	1	0	1	1	1	0	0.972V	
	0	0	1	1	1	1	1.468V	1	0	1	1	1	1	0.956V	
	0	1	0	0	0	0	1.452V	1	1	0	0	0	0	0.940V	
	0	1	0	0	0	1	1.436V	1	1	0	0	0	1	0.924V	
	0	1	0	0	1	0	1.420V	1	1	0	0	1	0	0.908V	
	0	1	0	0	1	1	1.404V	1	1	0	0	1	1	0.892V	
	0	1	0	1	0	0	1.388V	1	1	0	1	0	0	0.876V	
	0	1	0	1	0	1	1.372V	1	1	0	1	0	1	0.860V	
DOTHAN@400MHz	0	1	0	1	1	0	1.356V	1	1	0	1	1	0	0.844V	LOWEST FREQ.
HIGHEST FREQ.	0	1	0	1	1	1	1.340V	1	1	0	1	1	1	0.828V	
	0	1	1	0	0	0	1.324V	1	1	1	0	0	0	0.812V	
DOTHAN@533MHz	0	1	1	0	0	1	1.308V	1	1	1	0	0	1	0.796V	
HIGHEST FREQ.	0	1	1	0	1	0	1.292V	1	1	1	0	1	0	0.780V	
	0	1	1	0	1	1	1.276V	1	1	1	0	1	1	0.764V	
	0	1	1	1	0	0	1.260V	1	1	1	1	0	0	0.748V	DEEPER SLEEP
	0	1	1	1	0	1	1.244V	1	1	1	1	0	1	0.732V	
	0	1	1	1	1	0	1.228V	1	1	1	1	1	0	0.716V	
	0	1	1	1	1	1	1.212V	1	1	1	1	1	1	0.700V	

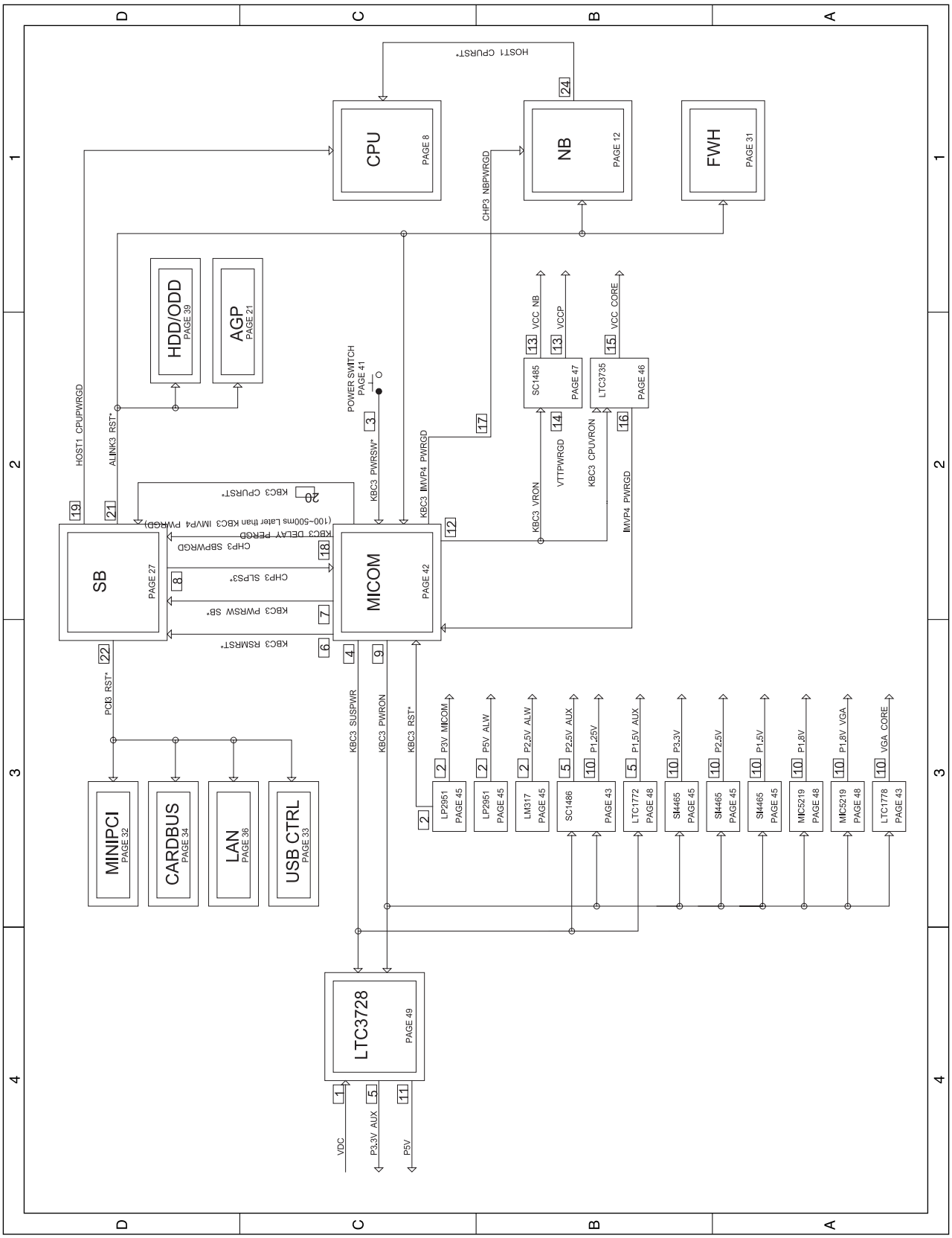
CPU STRAPS

		Intel® Pentium-M		Intel® Celeron-M
		DOTHAN FSB 533MHz	DOTHAN/BANIAS FSB 400MHz	DOTHAN/BANIAS FSB 400MHz
Sheet 7	R888	NO STUFF	STUFF	STUFF
	R889	STUFF	NO STUFF	NO STUFF
Sheet 9	B16	STUFF	NO STUFF	NO STUFF
	B17	NO STUFF	STUFF	STUFF
Sheet 17	R252	NO STUFF	STUFF	STUFF

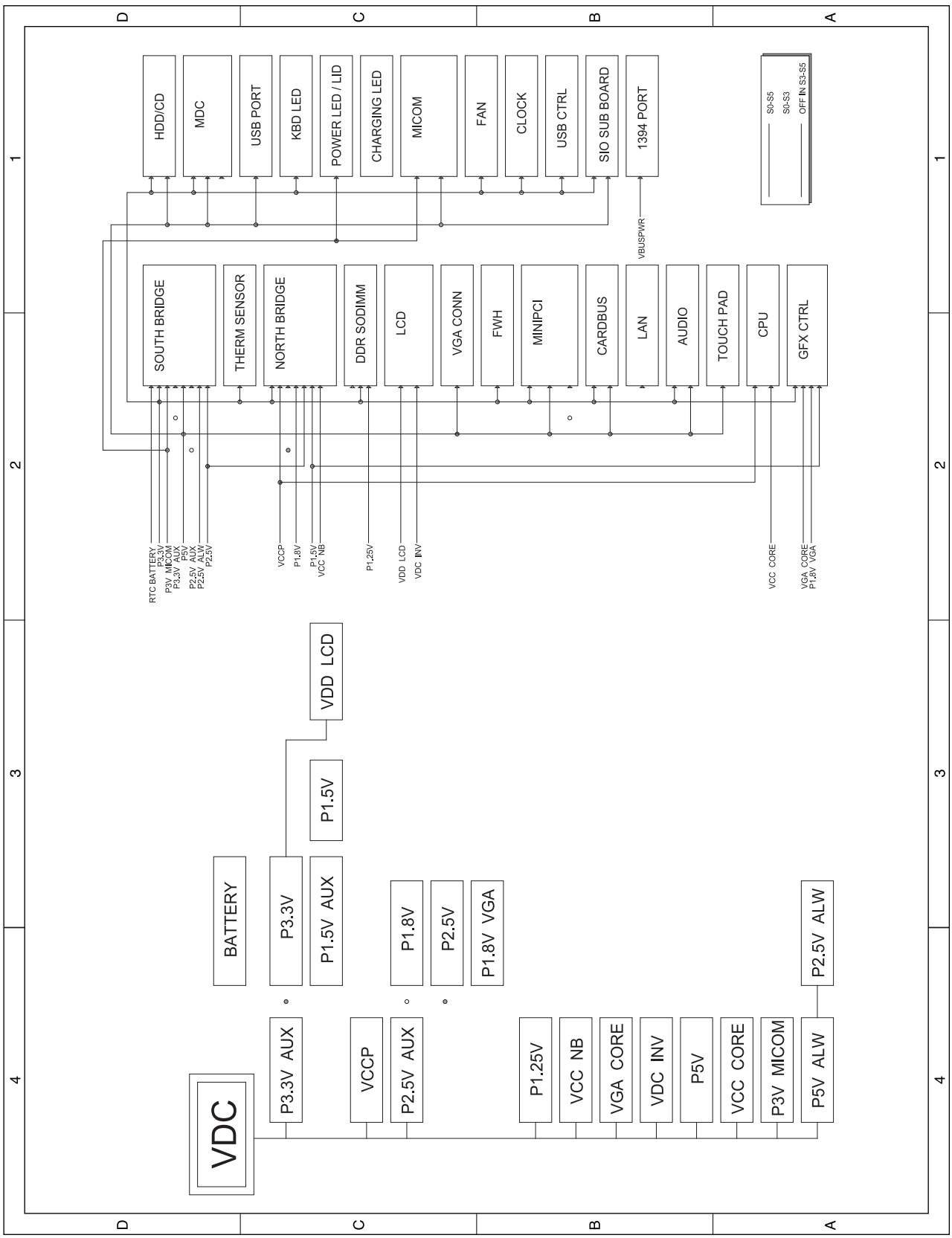
REVISION HISTORY

SEE REVISION CHANGE NOTE FOR MORE INFORMATION.

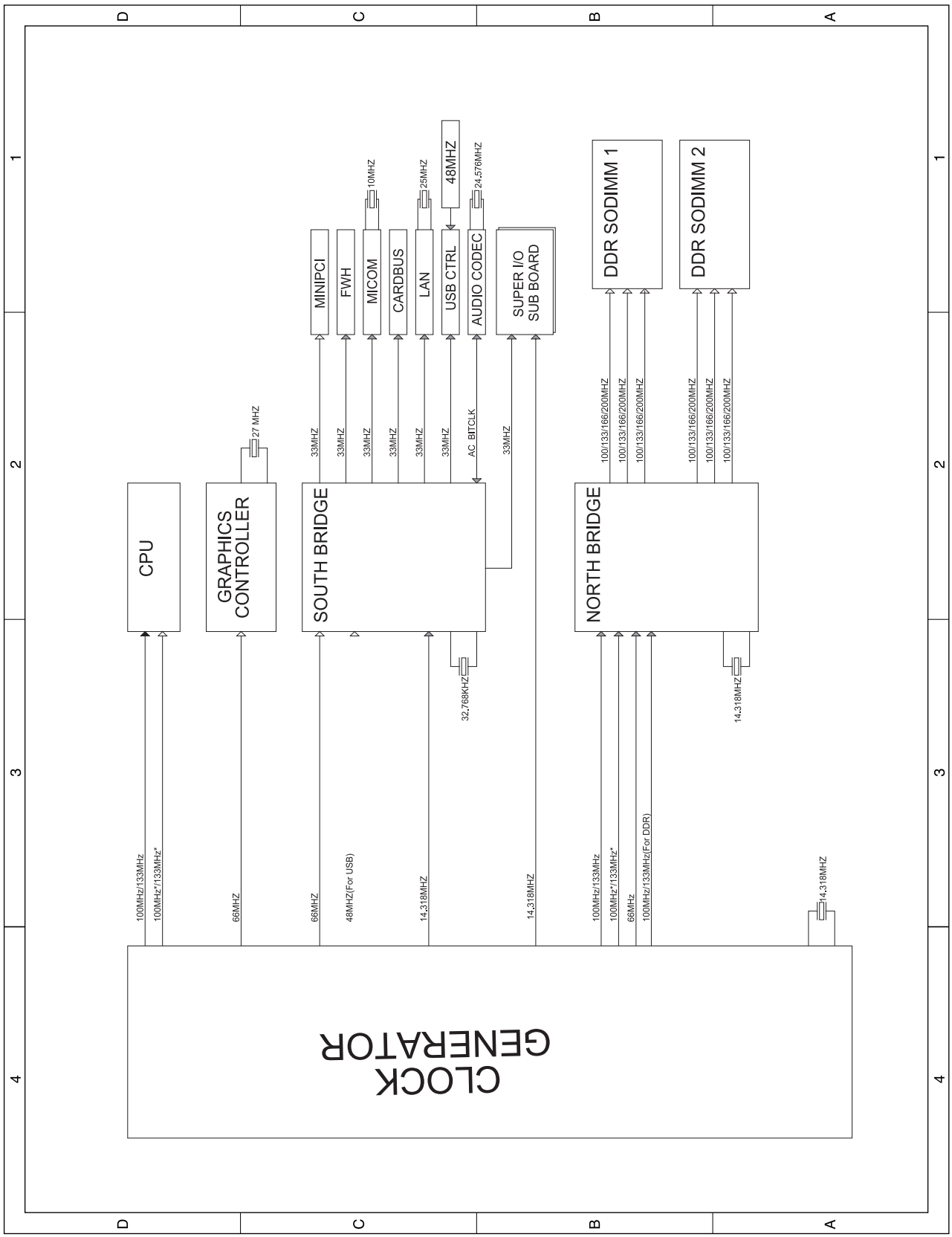
8-1-1(c) Main Board Schematic Sheet 4 of 51(Power On Sequence)



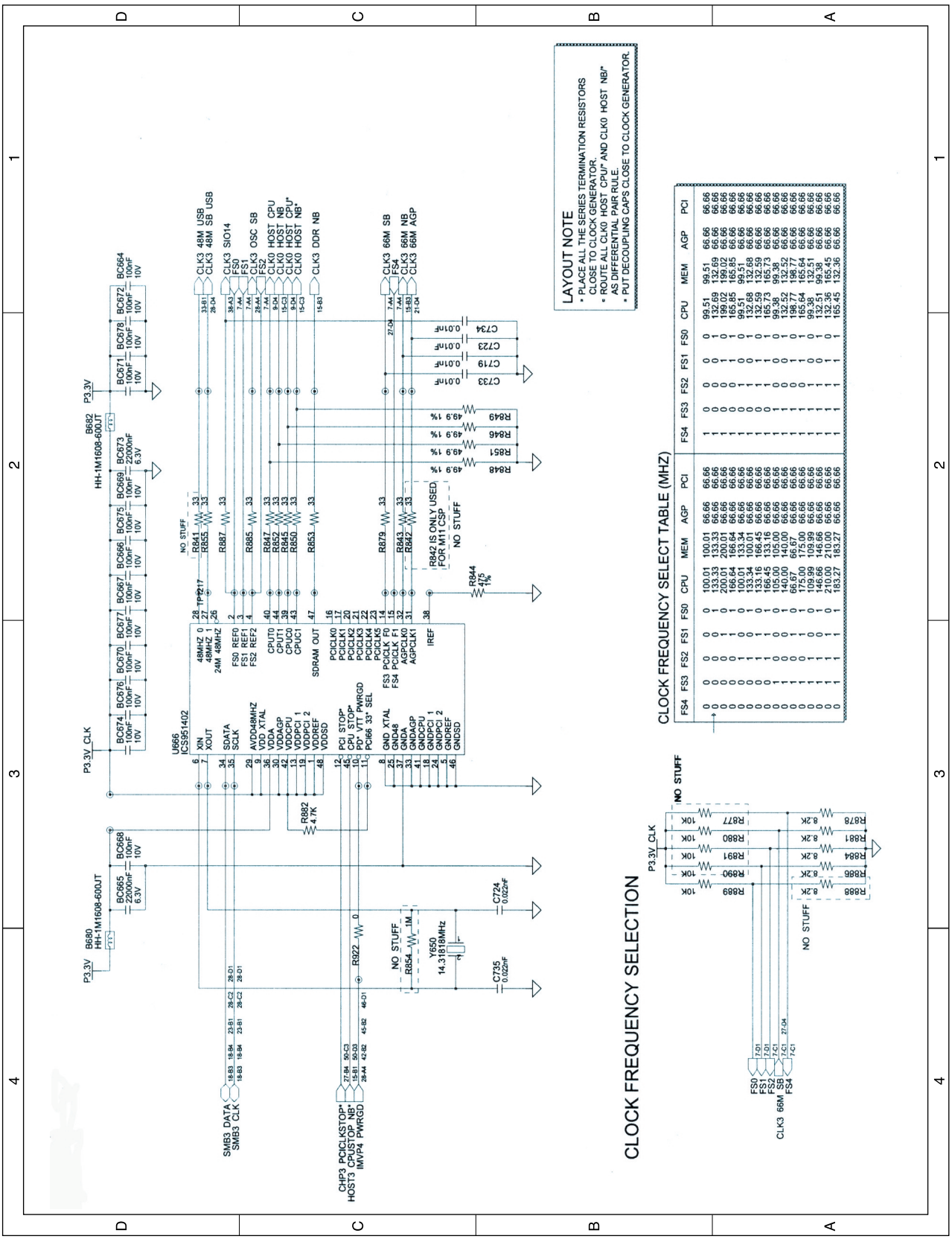
8-1-1(d) Main Board Schematic Sheet 5 of 51(Power Diagram)



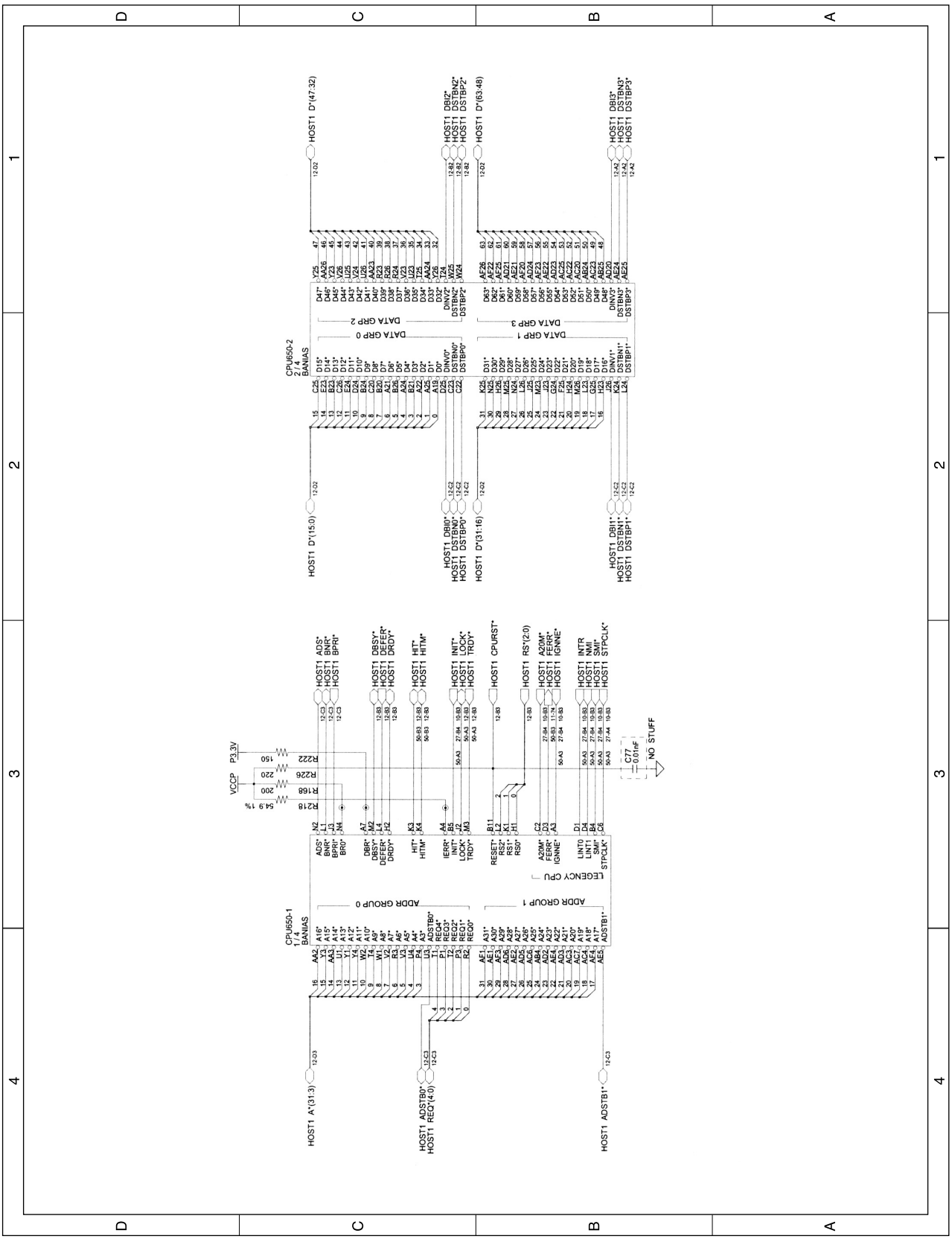
8-1-1(e) Main Board Schematic Sheet 6 of 51(Clock Diagram)



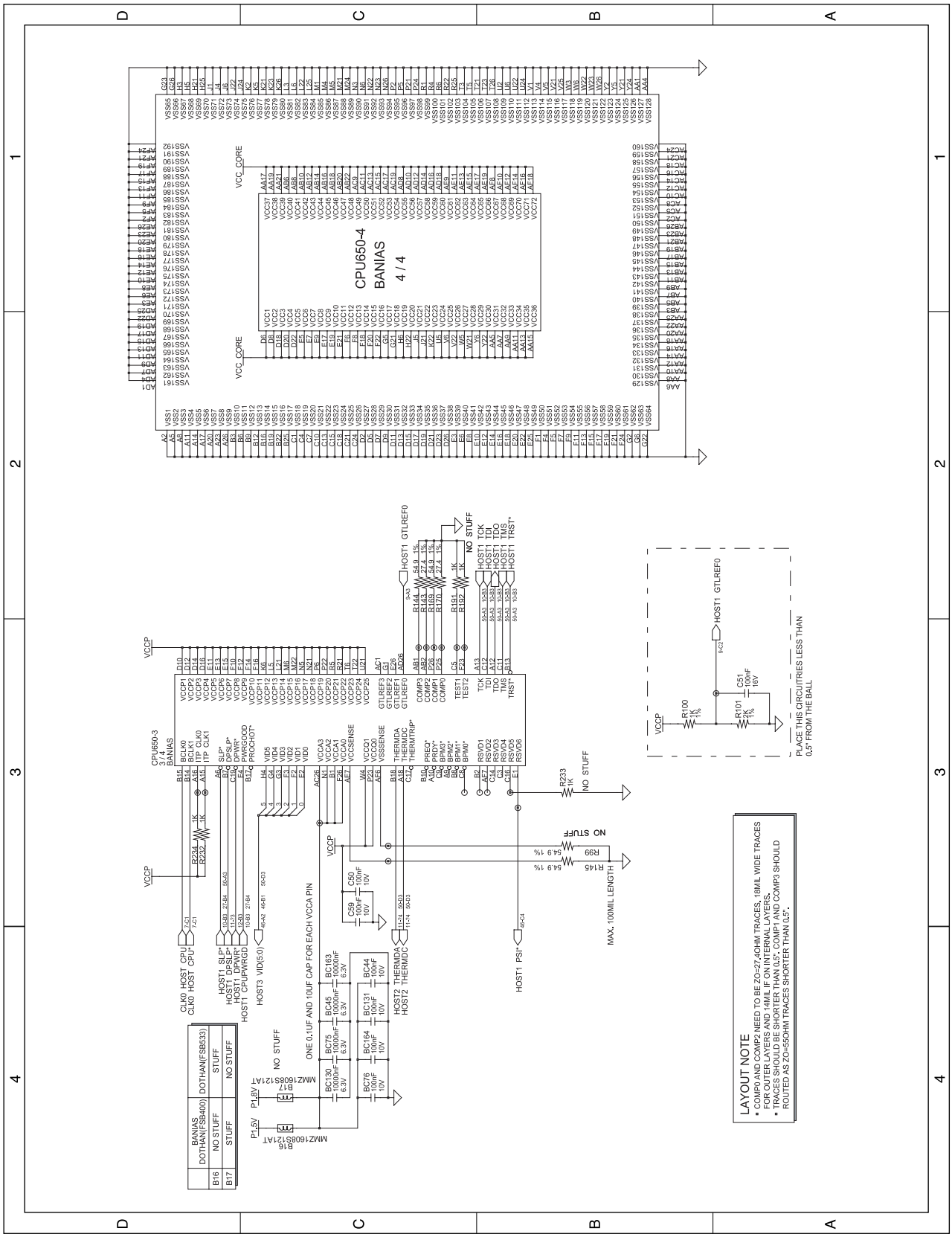
8-1-1(f) Main Board Schematic Sheet 7 of 51(Clock Diagram)



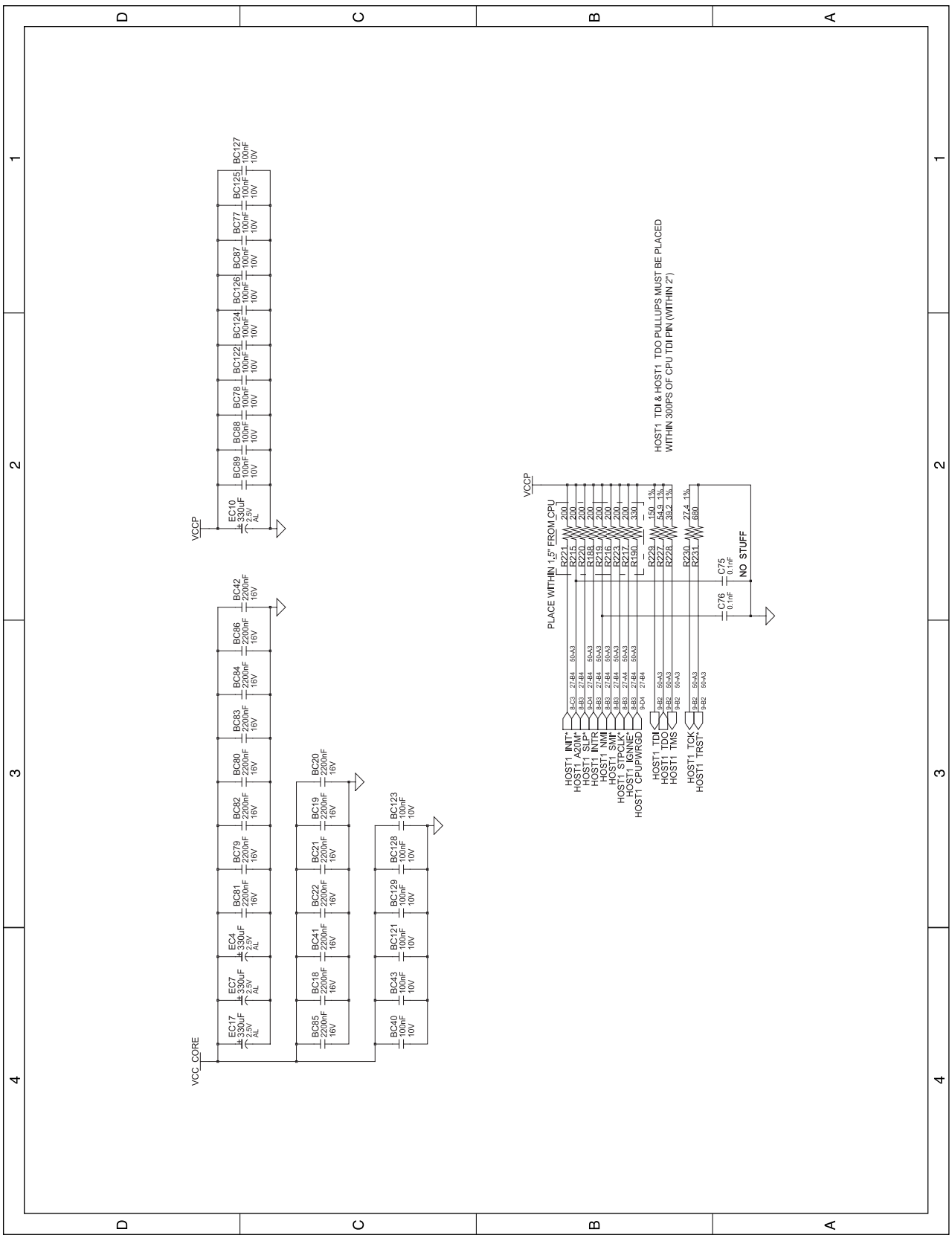
8-1-1(g) Main Board Schematic Sheet 8 of 51(CPU[1/2])



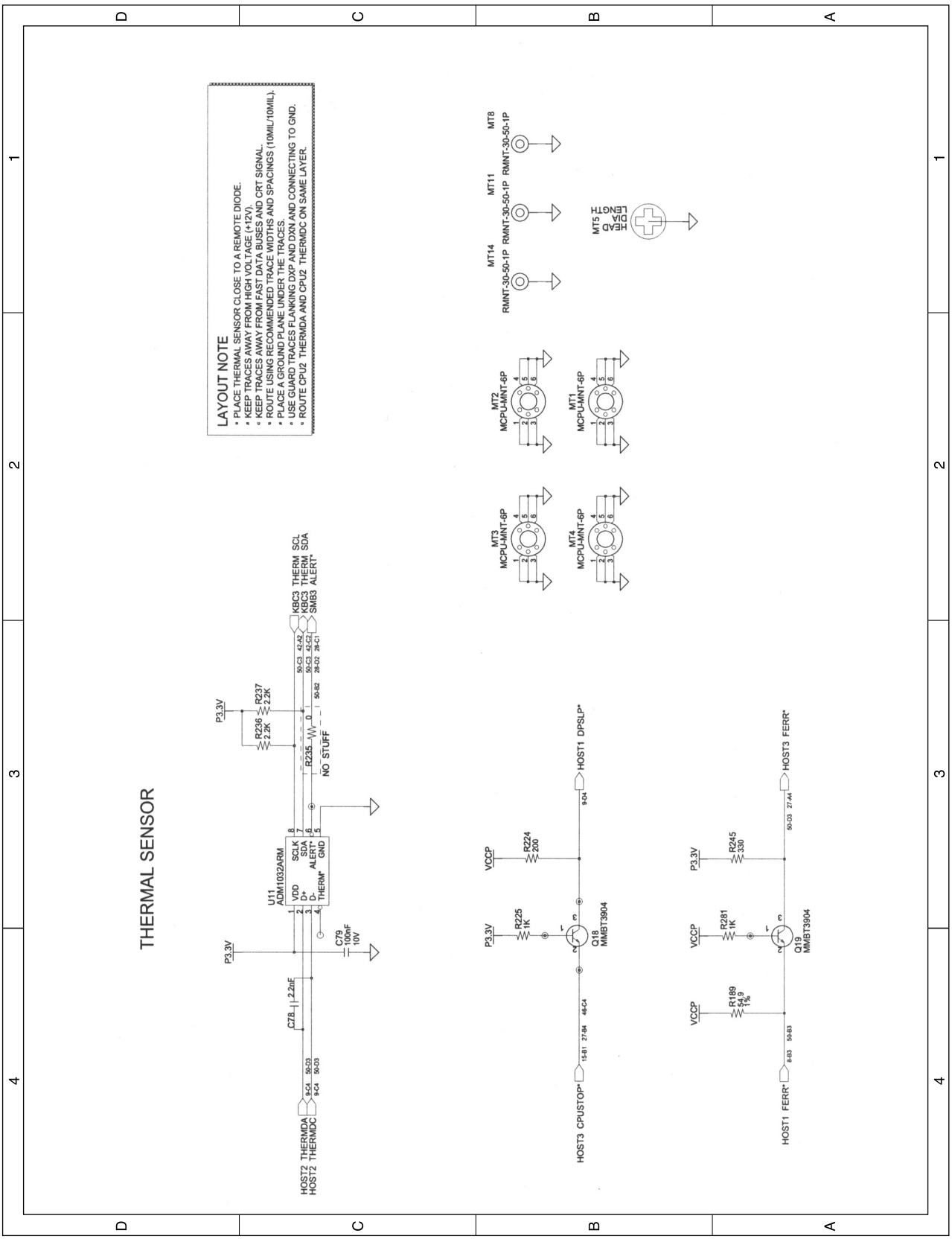
8-1-1(h) Main Board Schematic Sheet 9 of 51(CPU[2/2])



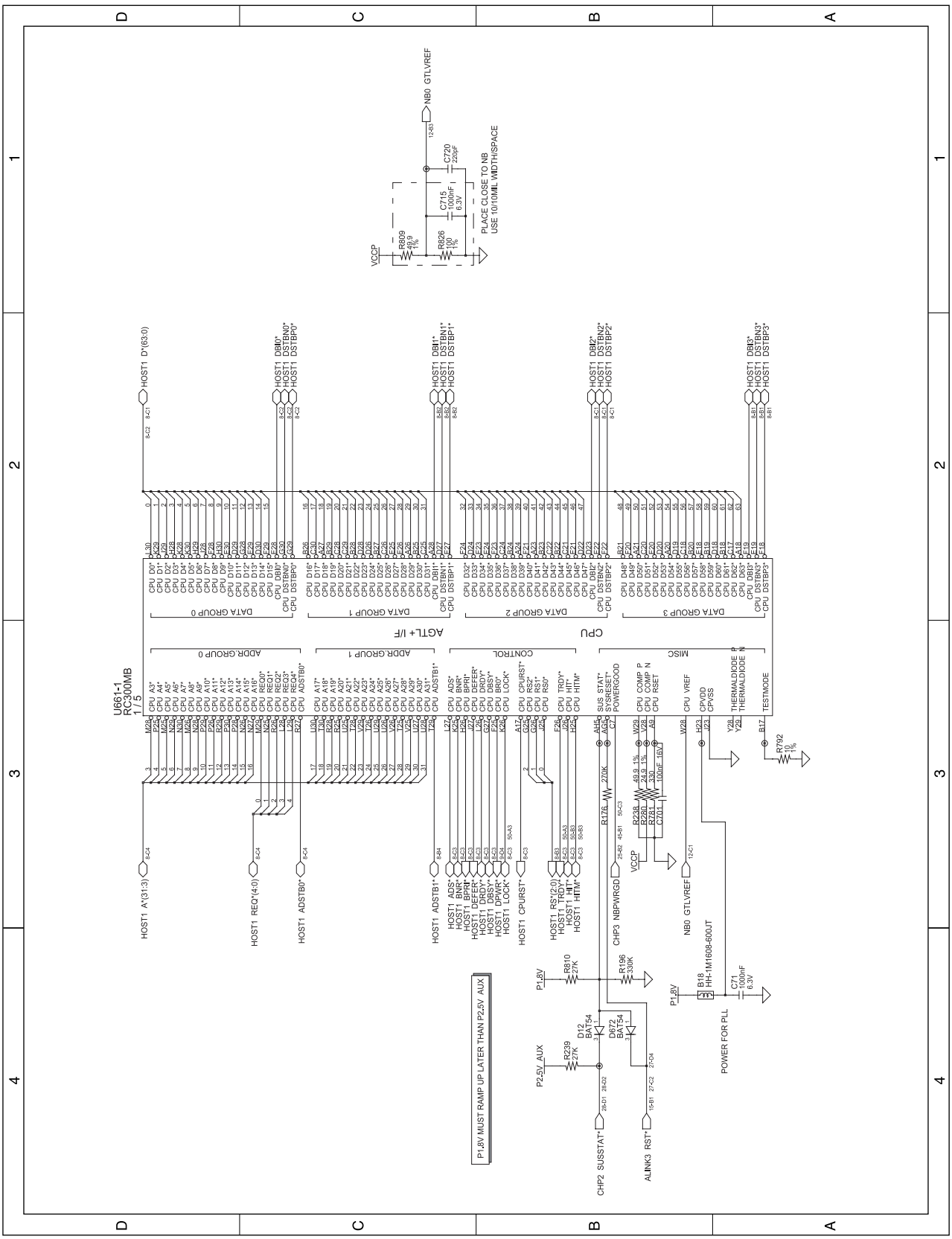
8-1-1(i) Main Board Schematic Sheet 10 of 51(CPU Pullups / Decouplings)



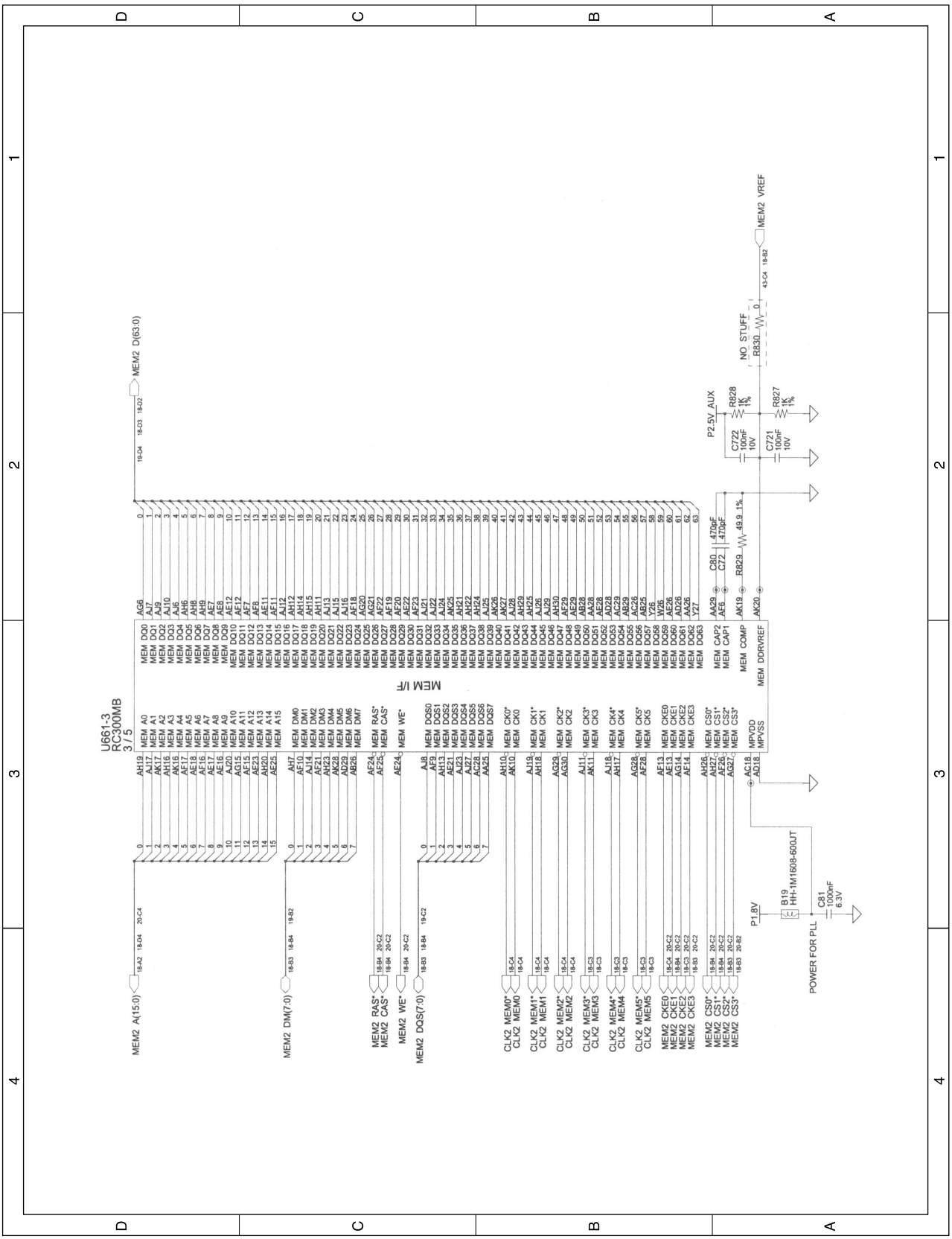
8-1-1(j) Main Board Schematic Sheet 11 of 51(Thermal Sensor / CPU ETC)



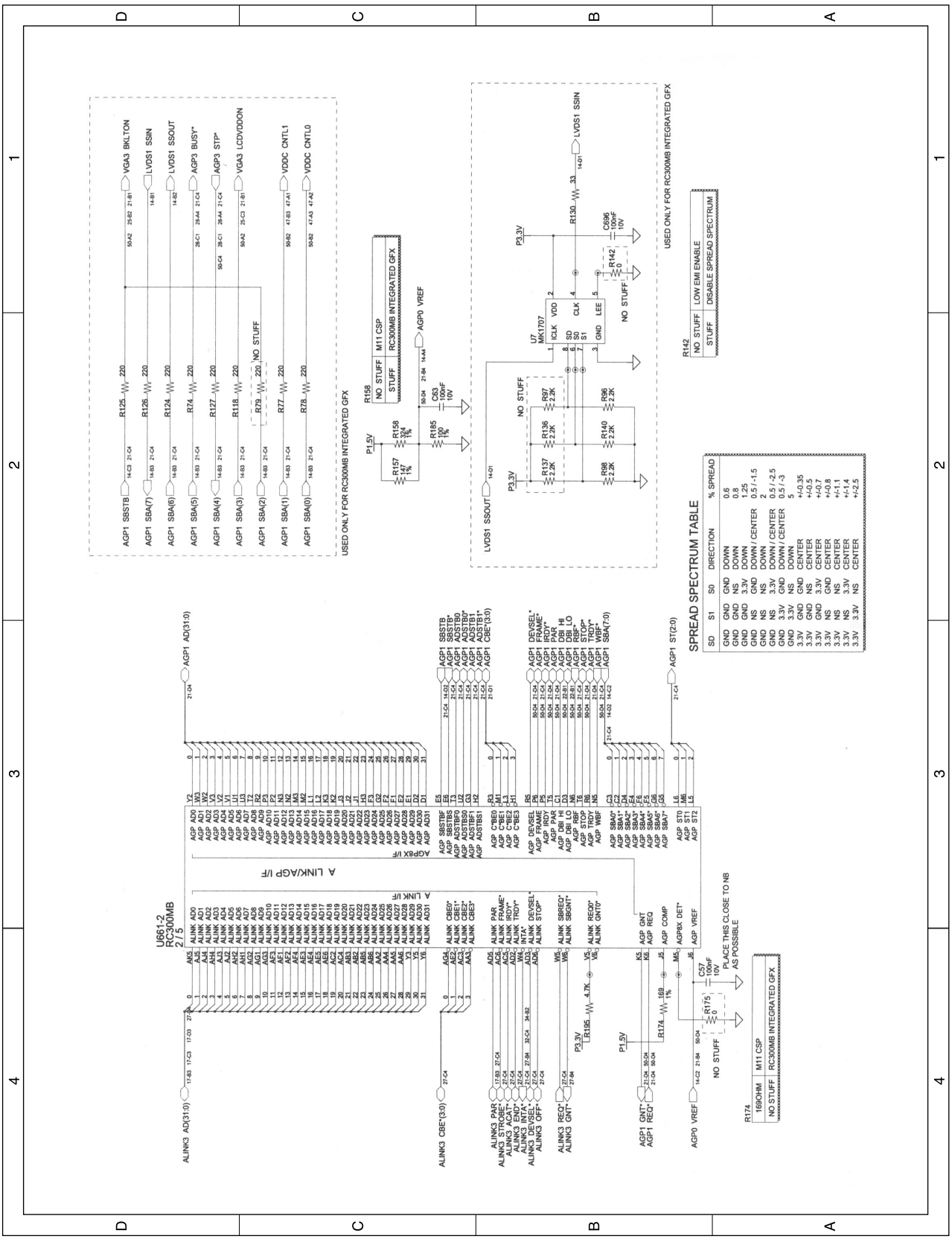
8-1-1(k) Main Board Schematic Sheet 12 of 51(North Bridge[1/5])



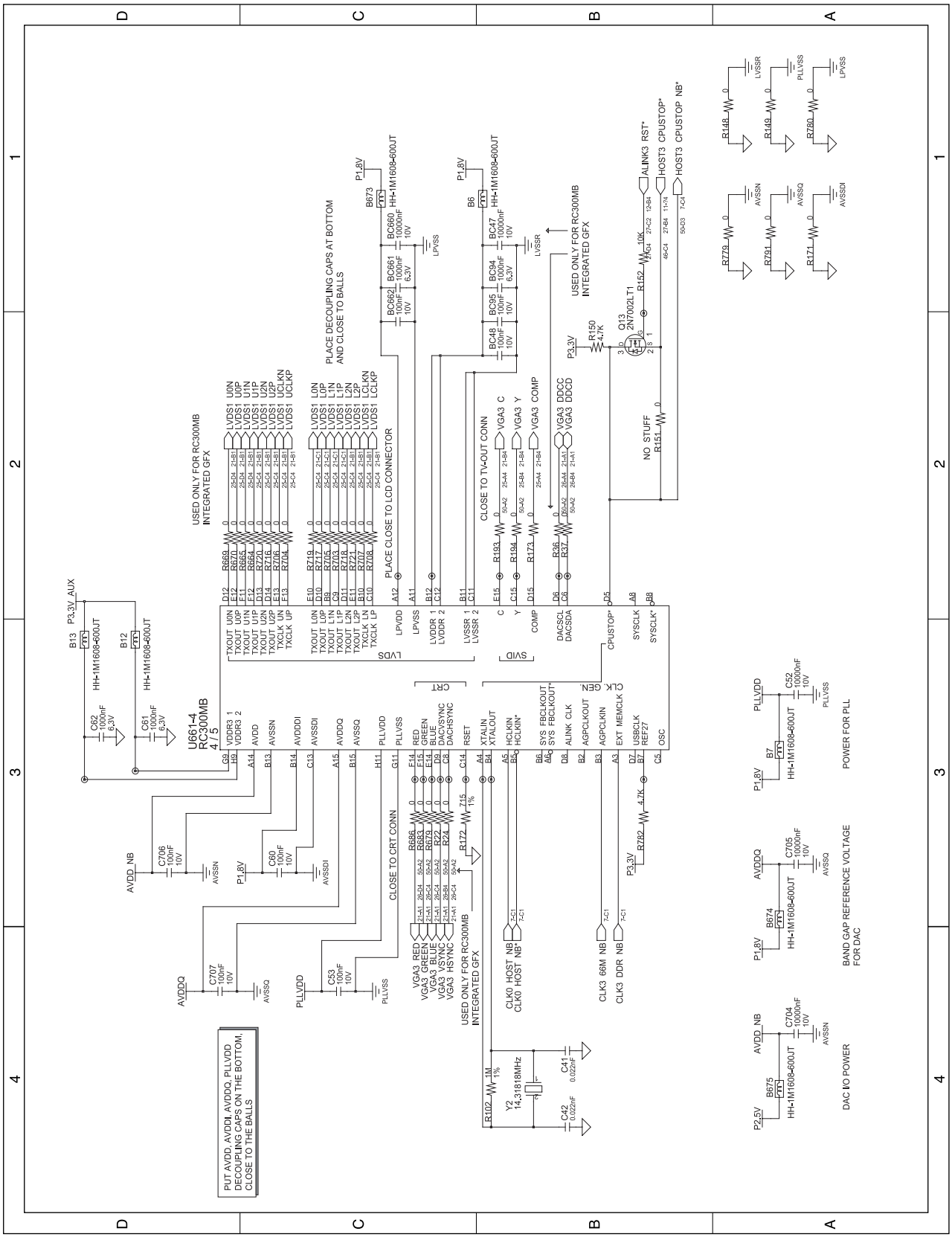
8-1-1(l) Main Board Schematic Sheet 13 of 51(North Bridge[2/5])



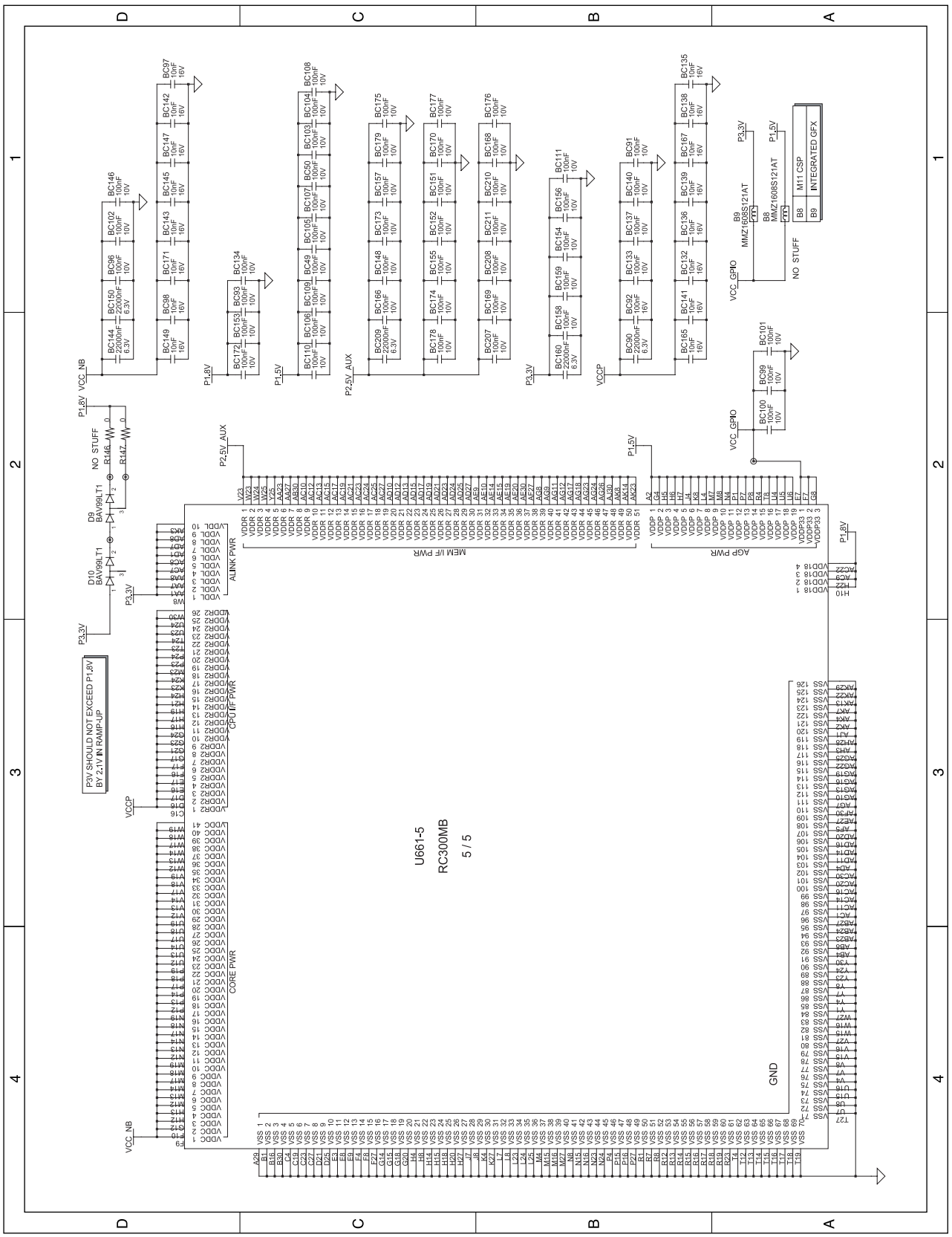
8-1-1(m) Main Board Schematic Sheet 14 of 51(North Bridge[3/5])



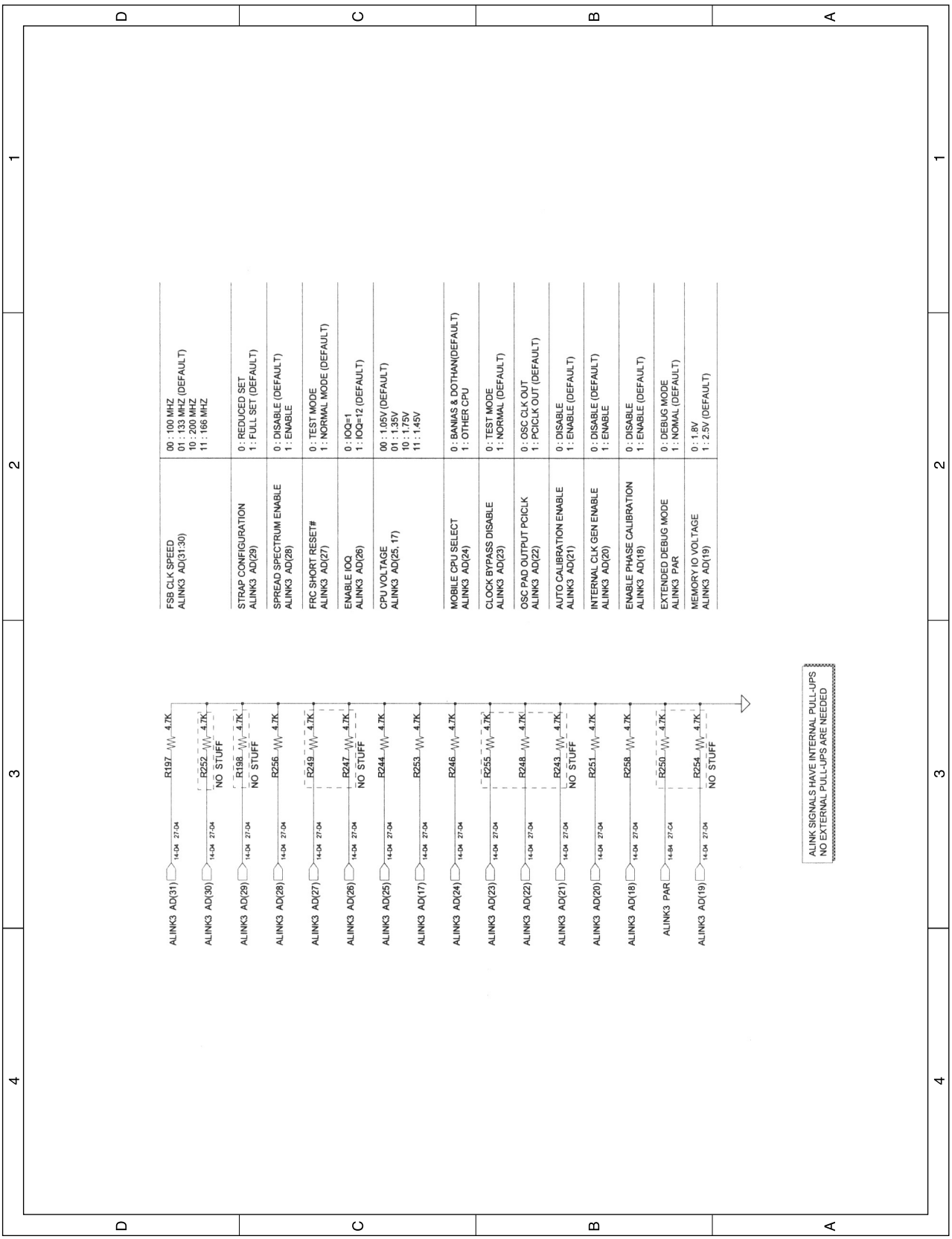
8-1-1(n) Main Board Schematic Sheet 15 of 51(North Bridge[4/5])



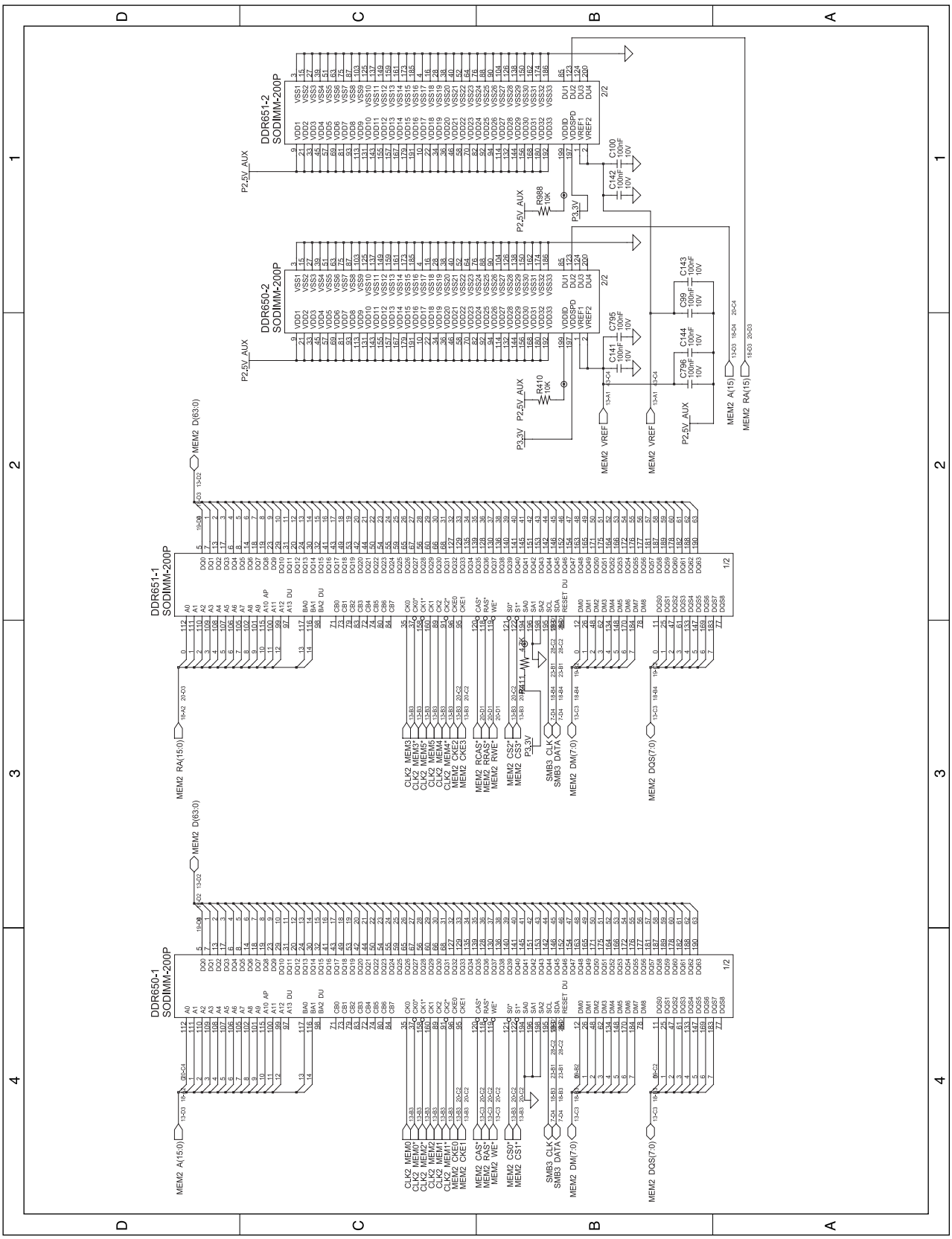
8-1-1(o) Main Board Schematic Sheet 16 of 51(North Bridge[5/5])



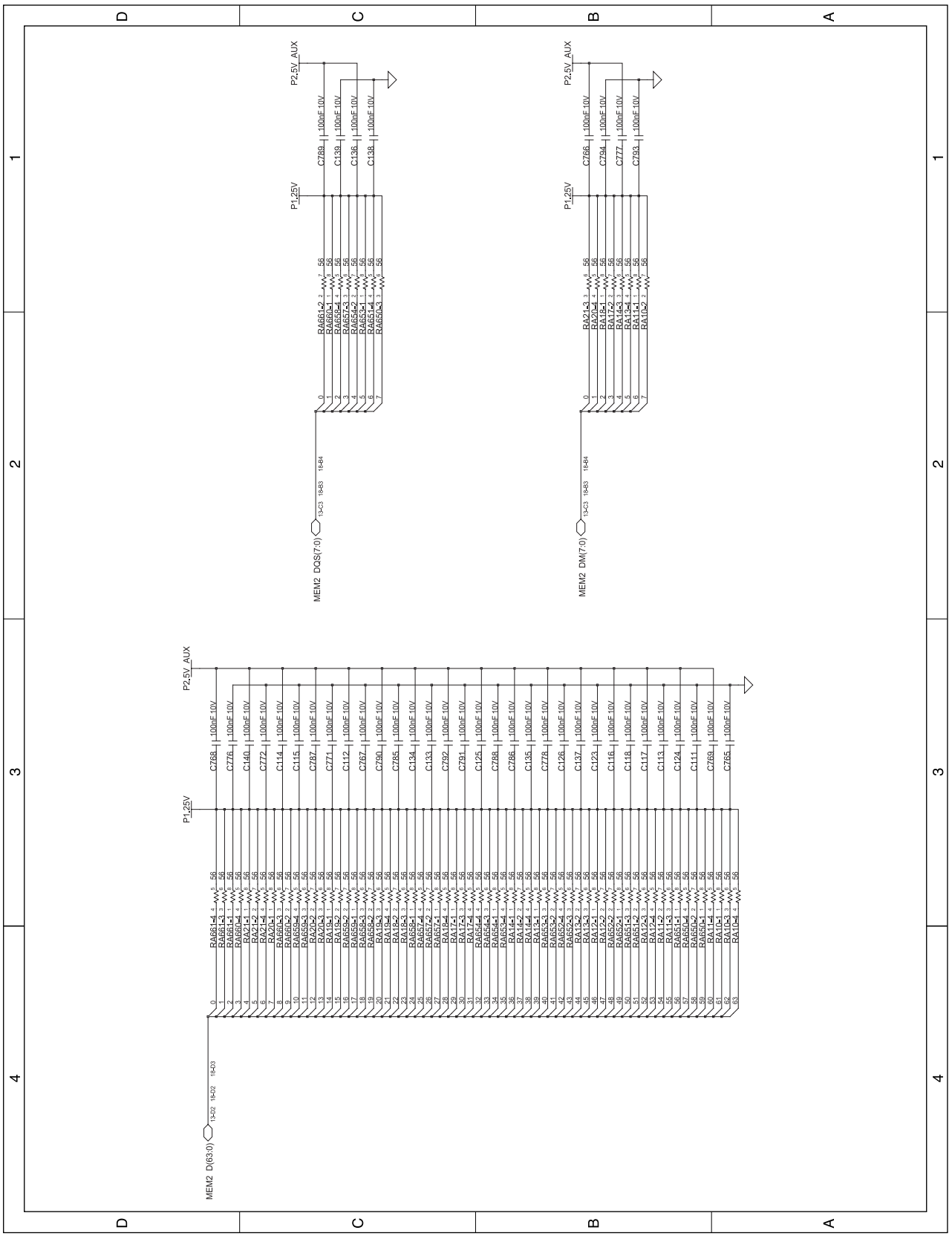
8-1-1(p) Main Board Schematic Sheet 17 of 51(North Bridge Straps)



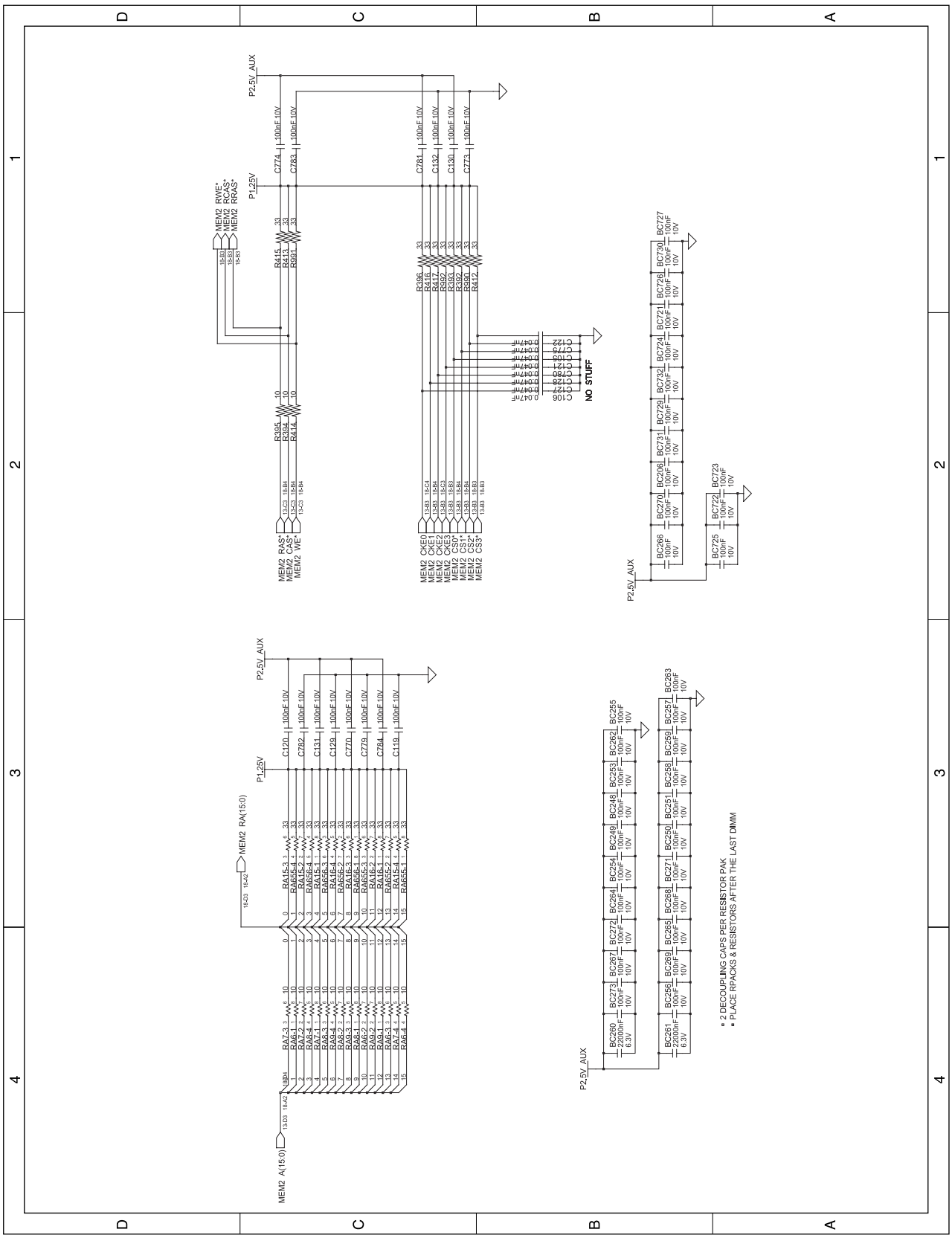
8-1-1(q) Main Board Schematic Sheet 18 of 51(DDR SODIMM)



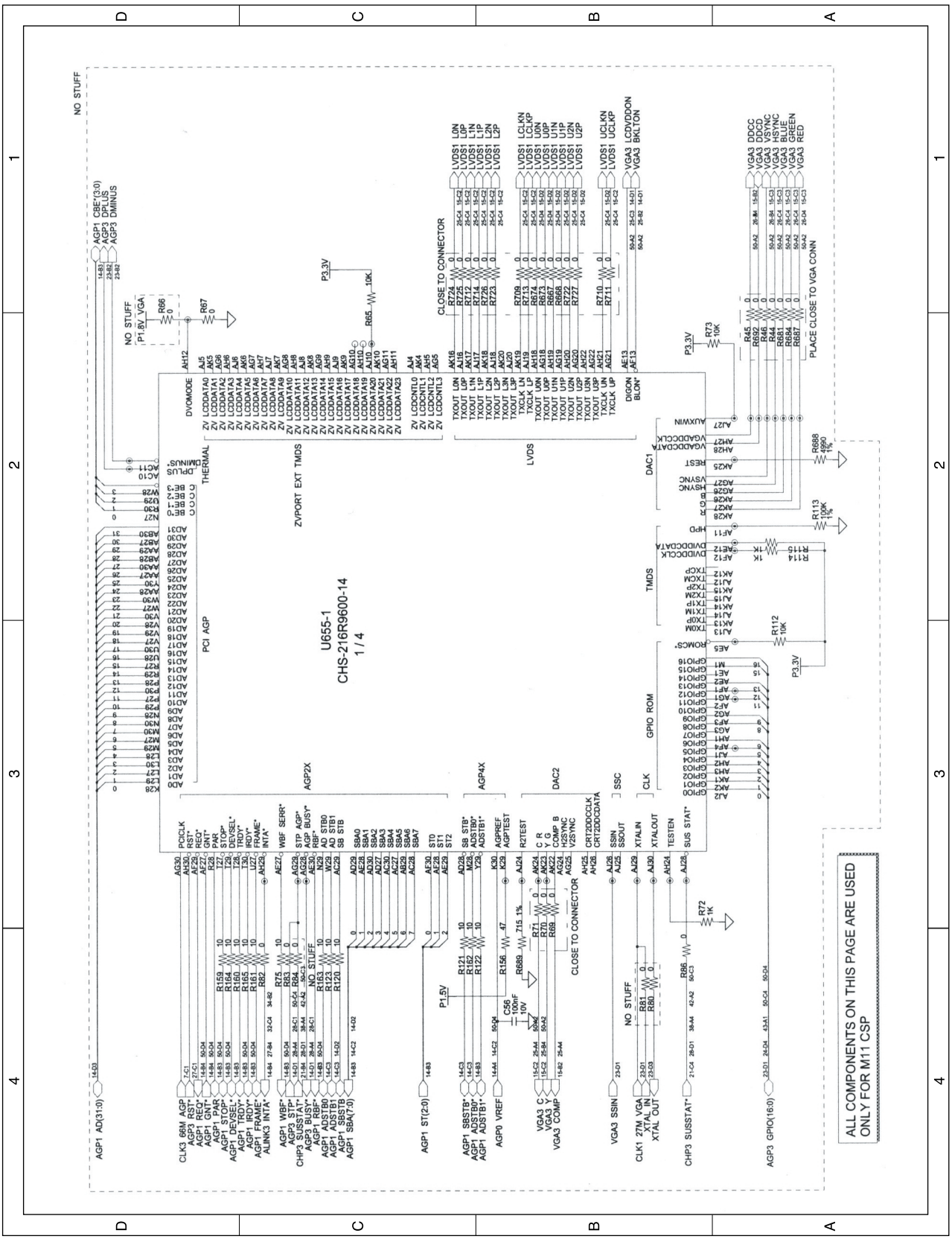
8-1-1(r) Main Board Schematic Sheet 19 of 51(DDR Termination[1/2])



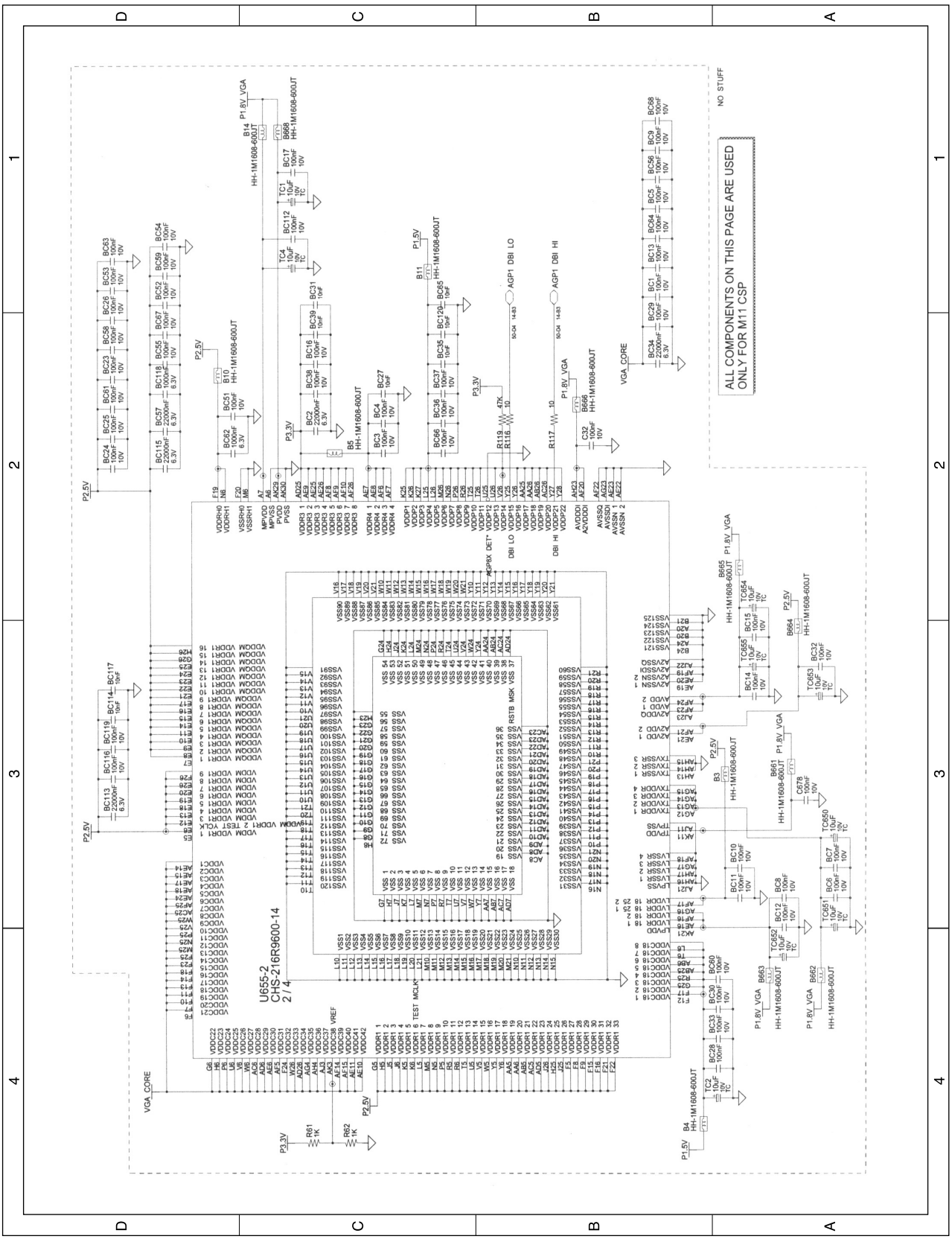
8-1-1(s) Main Board Schematic Sheet 20 of 51(DDR Termination[2/2])



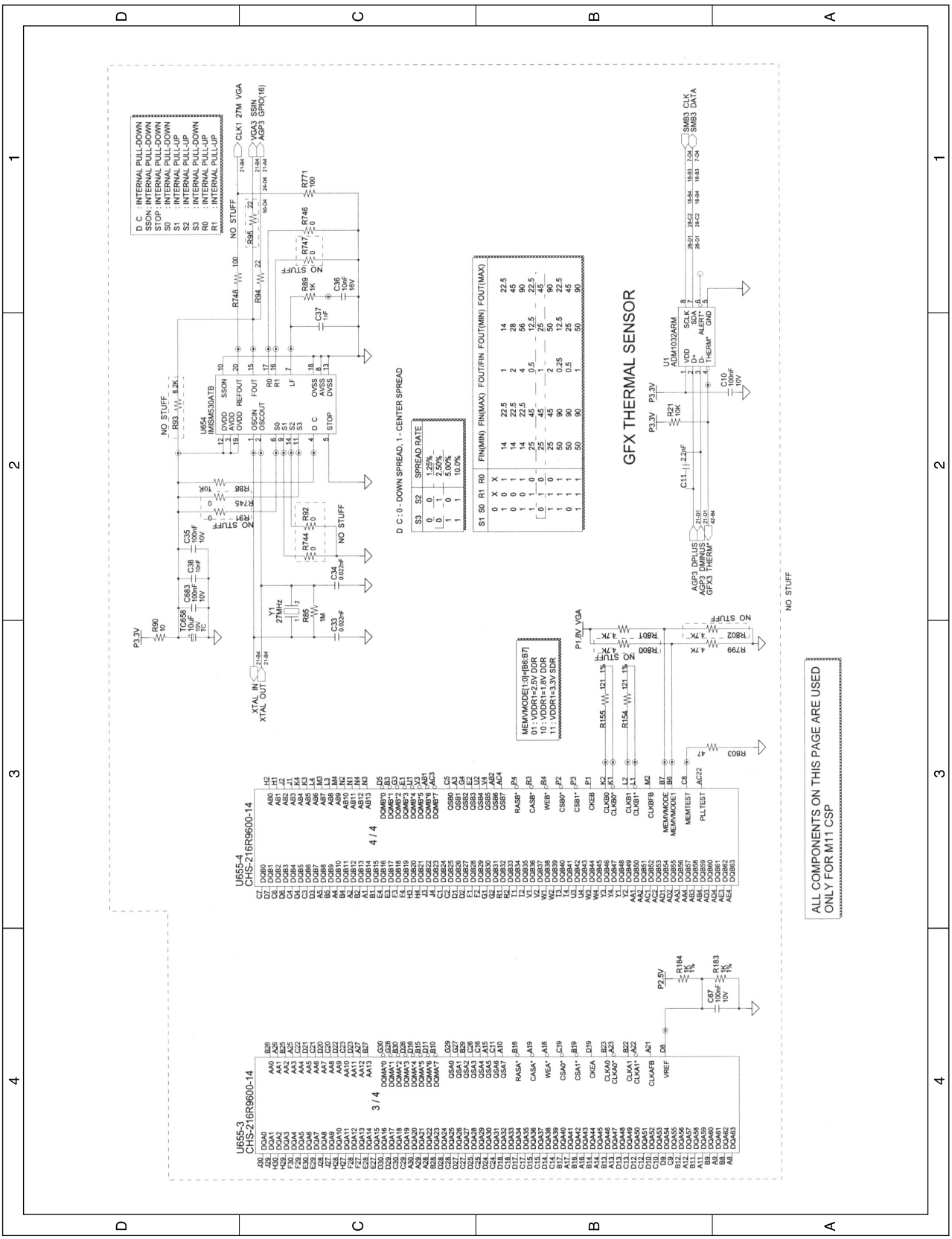
8-1-1(t) Main Board Schematic Sheet 21 of 51(Graphics Controller[1/3])



8-1-1(u) Main Board Schematic Sheet 22 of 51(Graphics Controller[2/3])

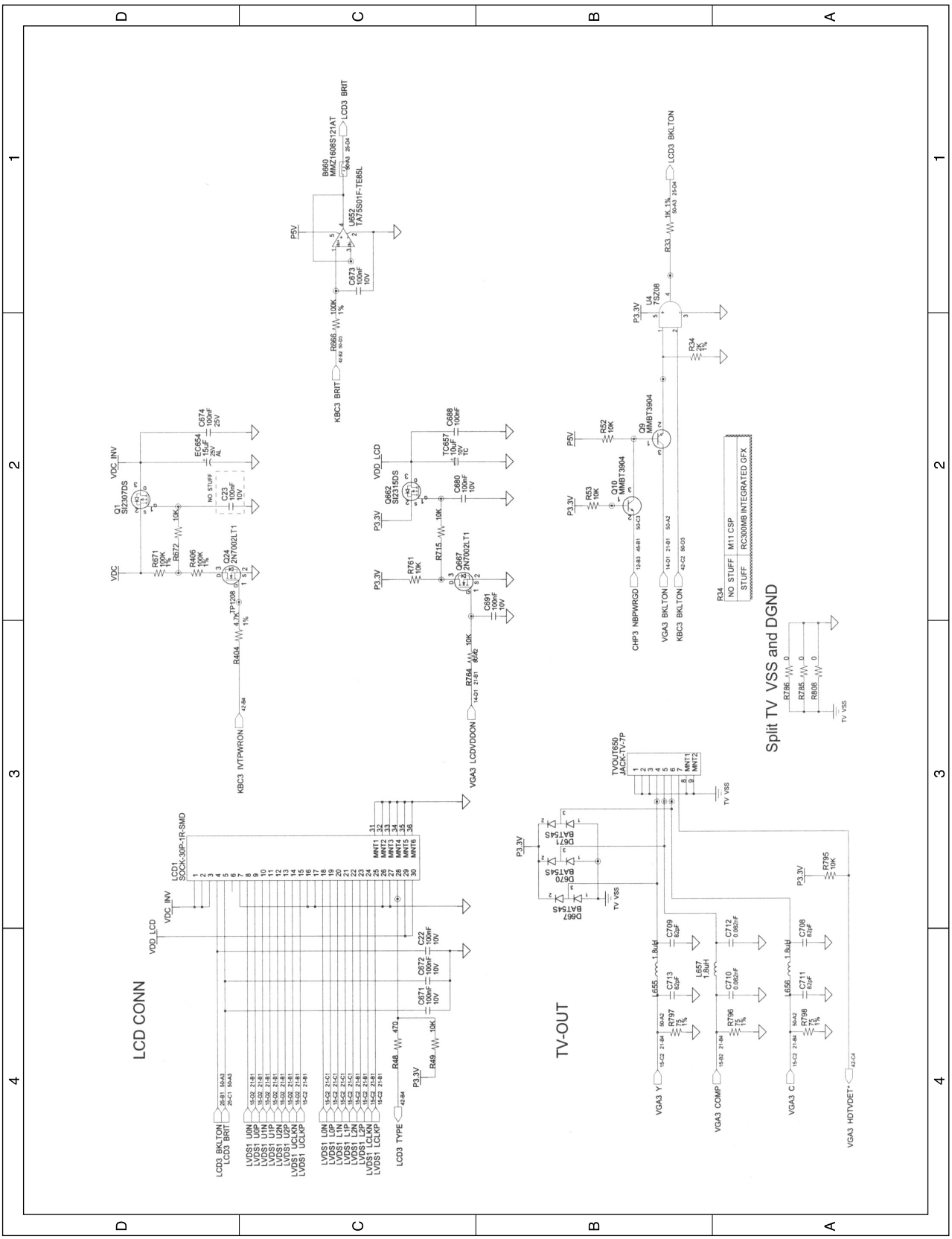


8-1-1(v) Main Board Schematic Sheet 23 of 51(Graphics Controller[3/3])

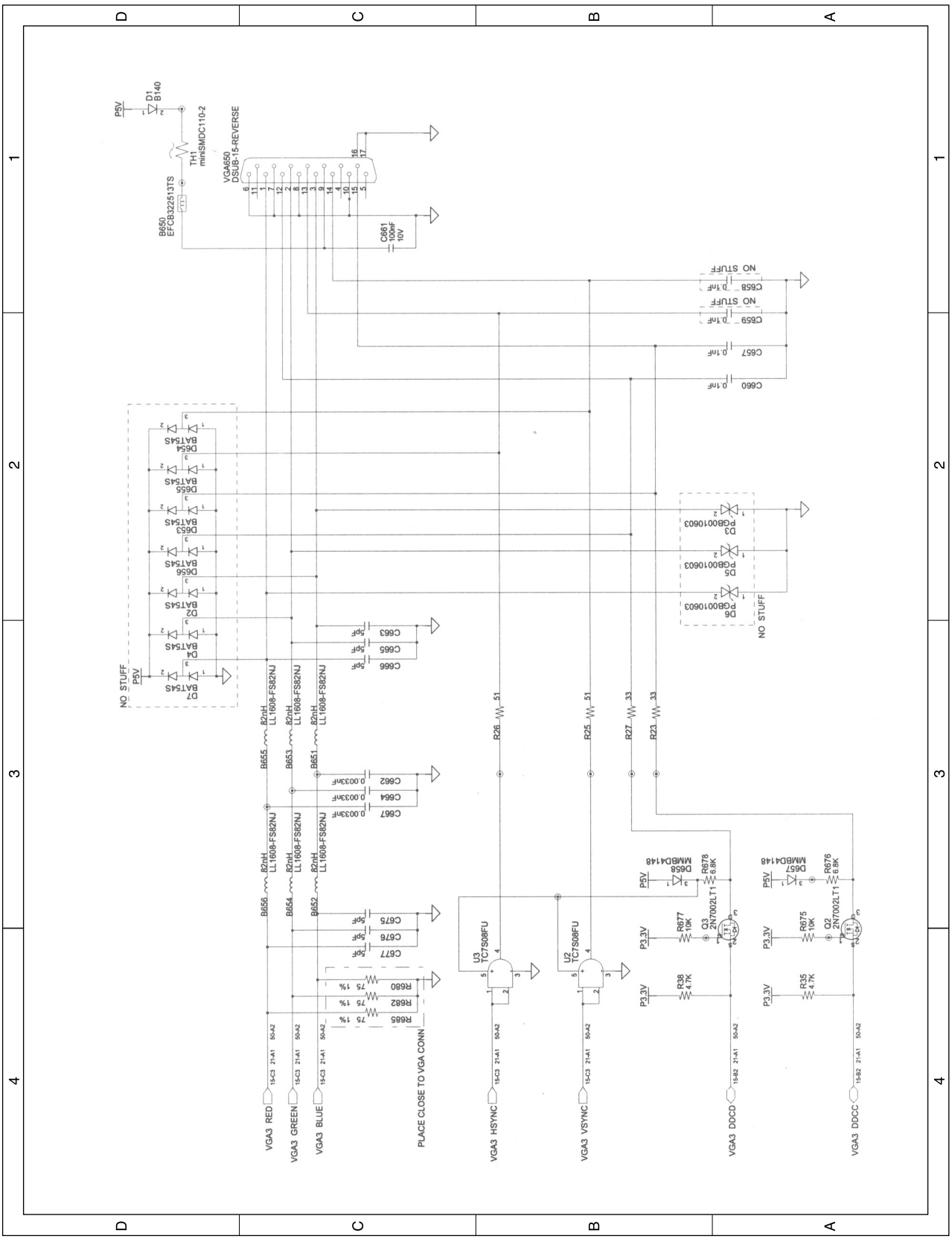


8-1-1(w) Main Board Schematic Sheet 24 of 51(Grahpics Straps)

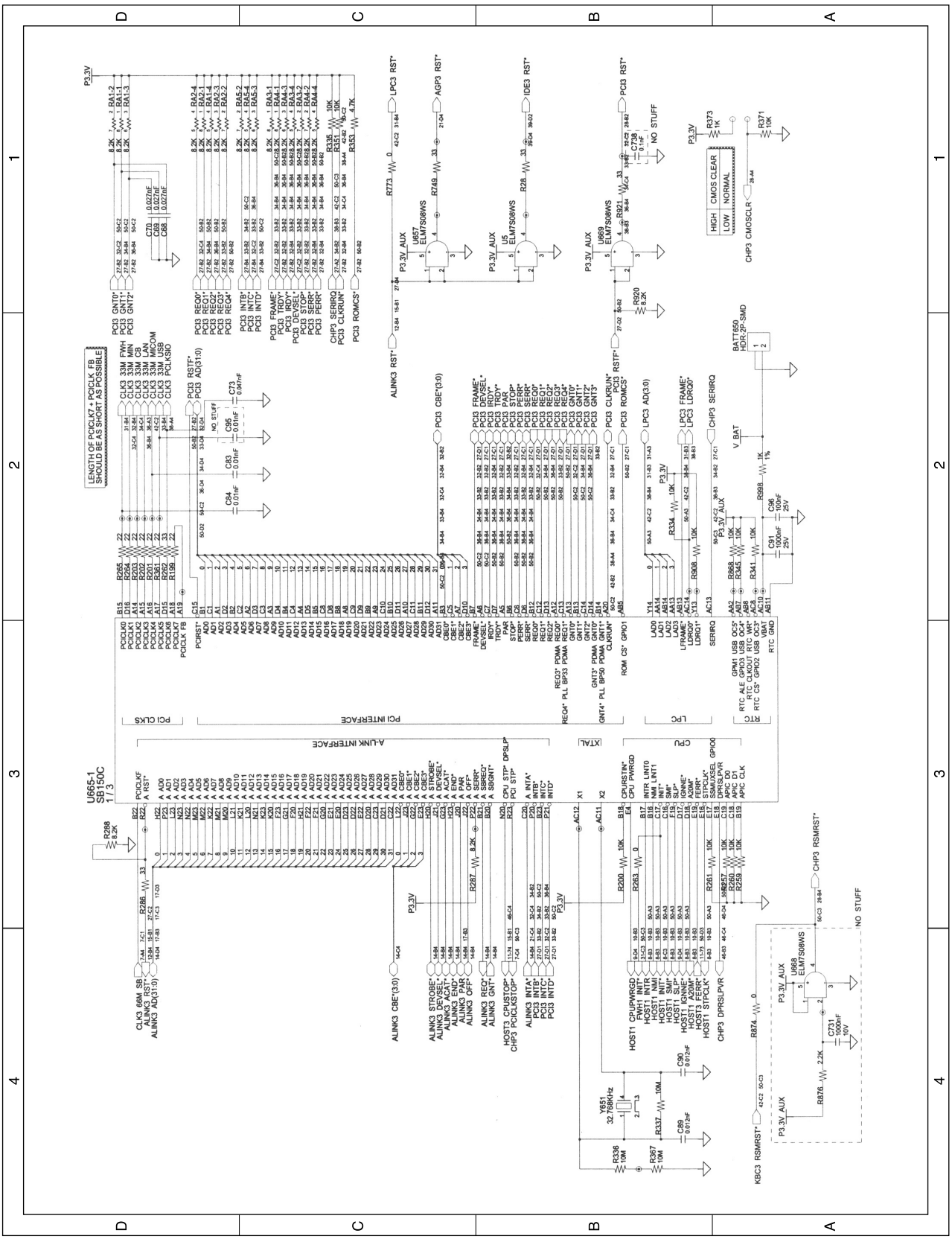
8-1-1(x) Main Board Schematic Sheet 25 of 51(CD / TV-OUT Connector)



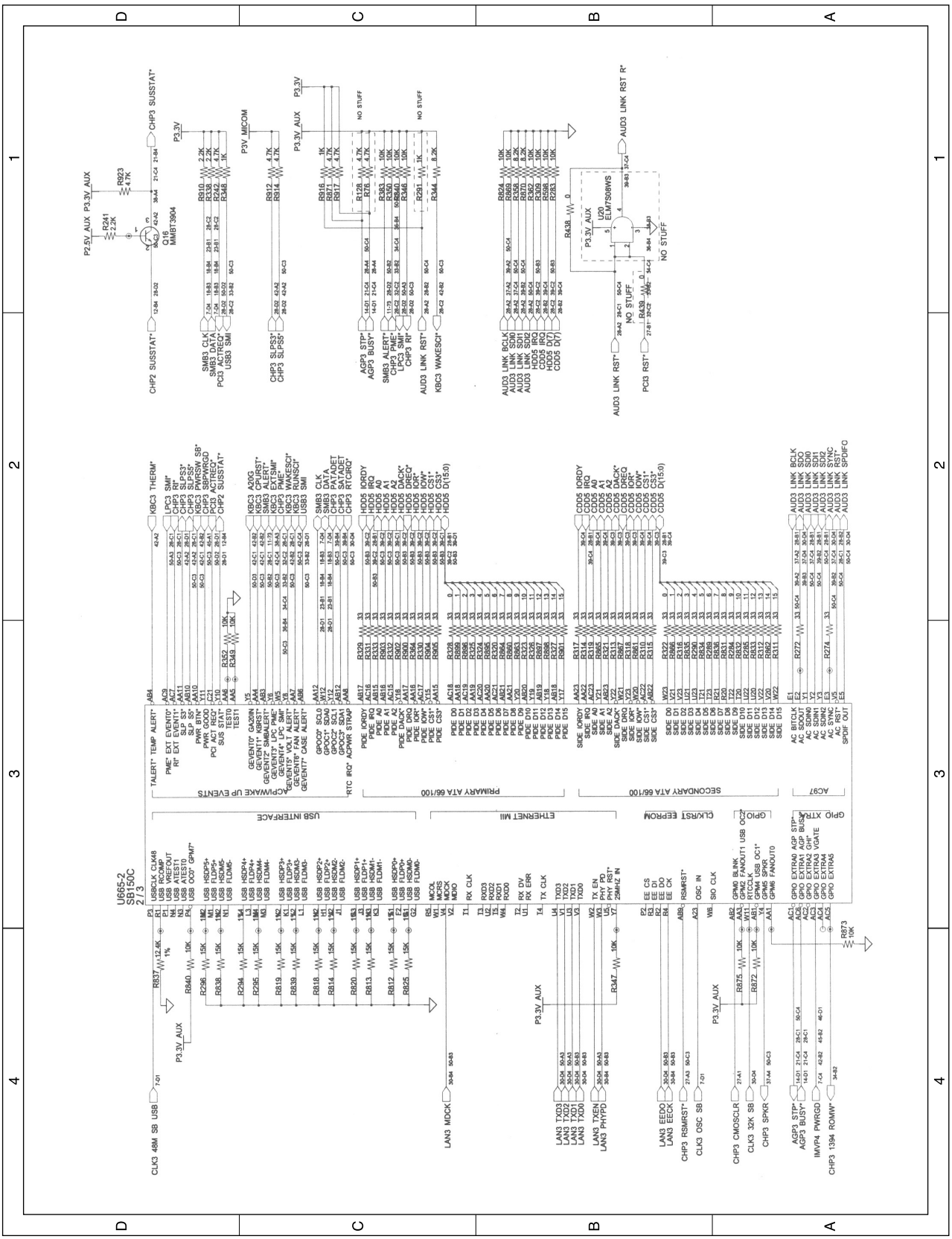
8-1-1(y) Main Board Schematic Sheet 26 of 51(CRT Connector)



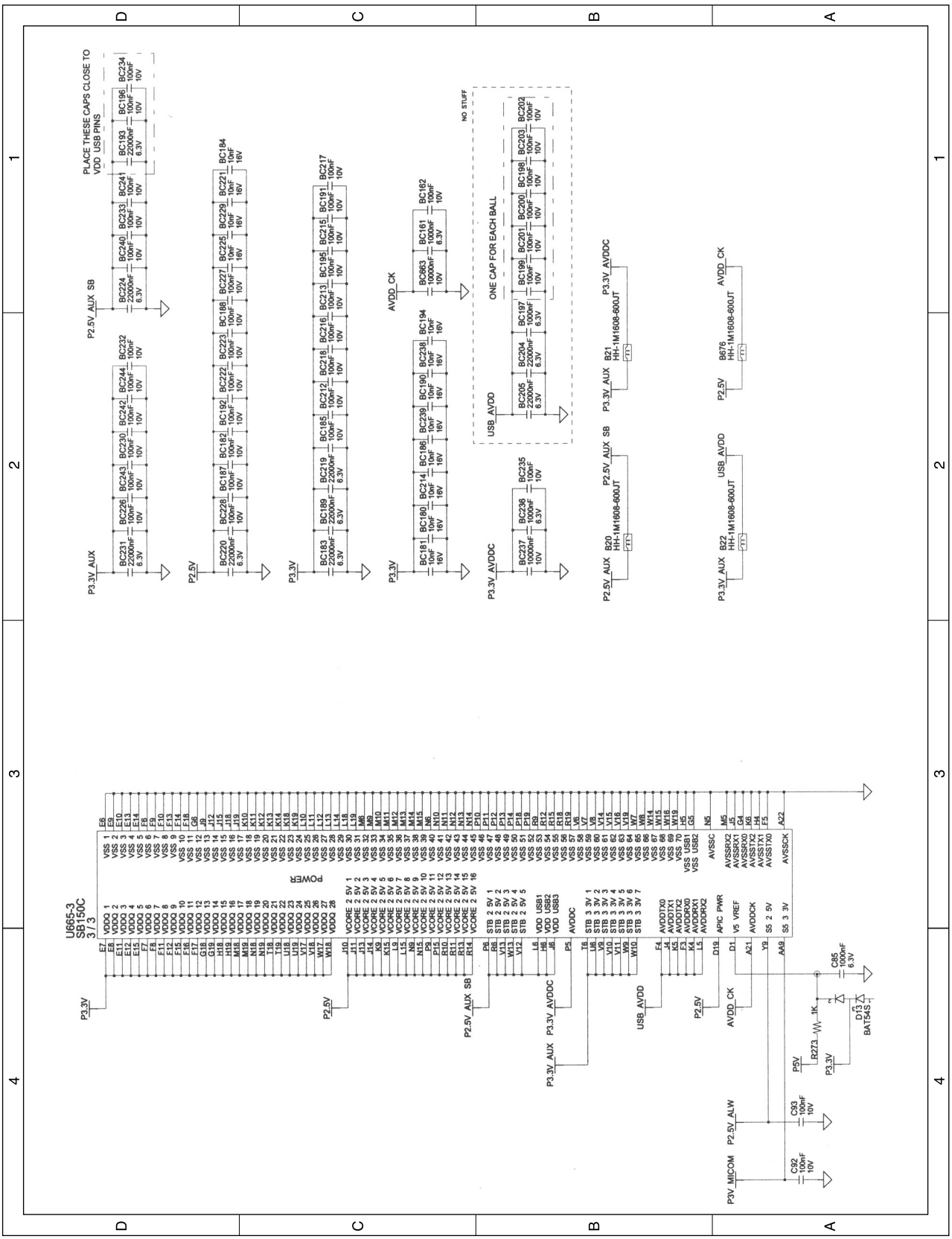
8-1-1(z) Main Board Schematic Sheet 27 of 51(South Bridge[1/3])



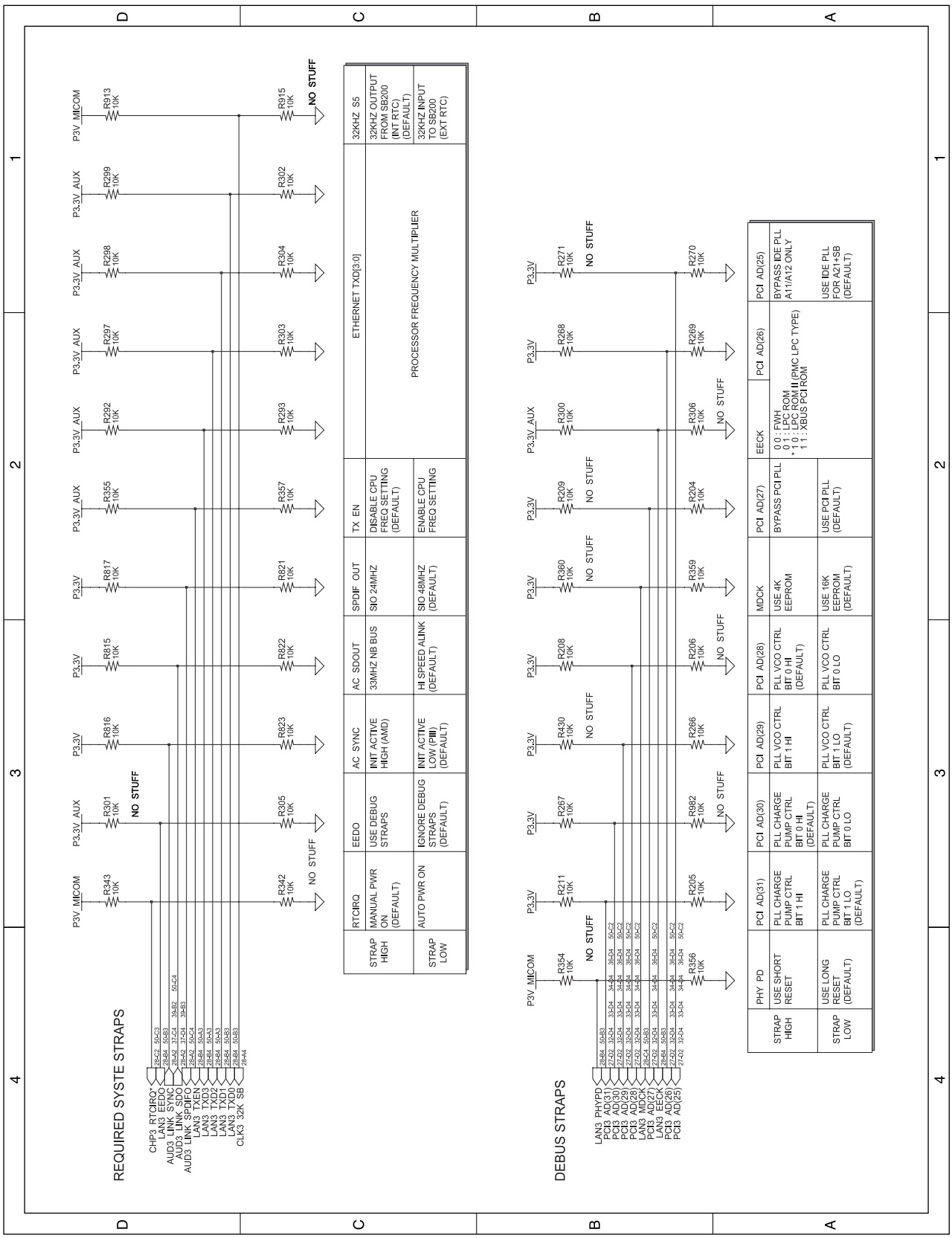
8-1-1(aa) Main Board Schematic Sheet 28 of 51(South Bridge[2/3])



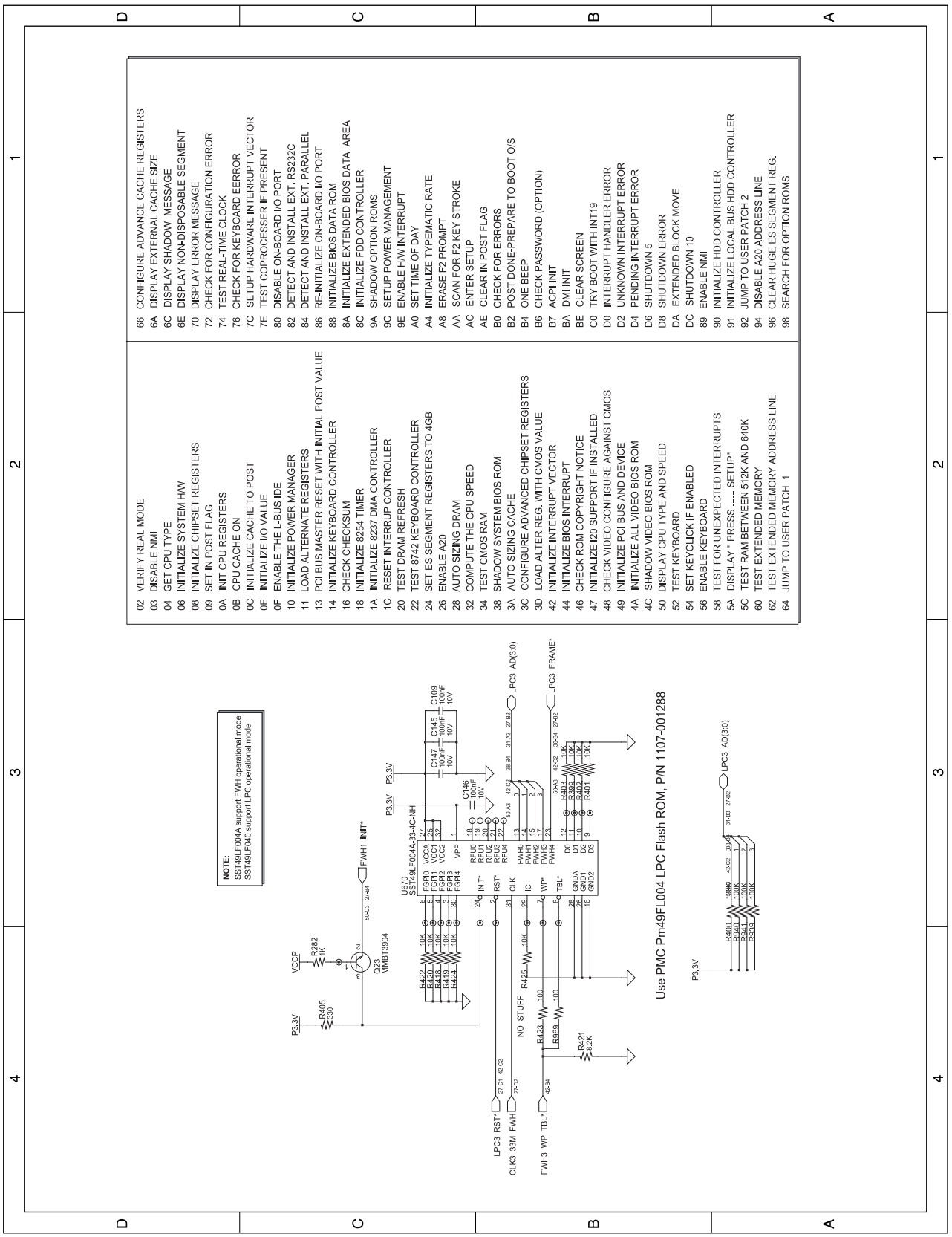
8-1-1(bb) Main Board Schematic Sheet 29 of 51(South Bridge[3/3])



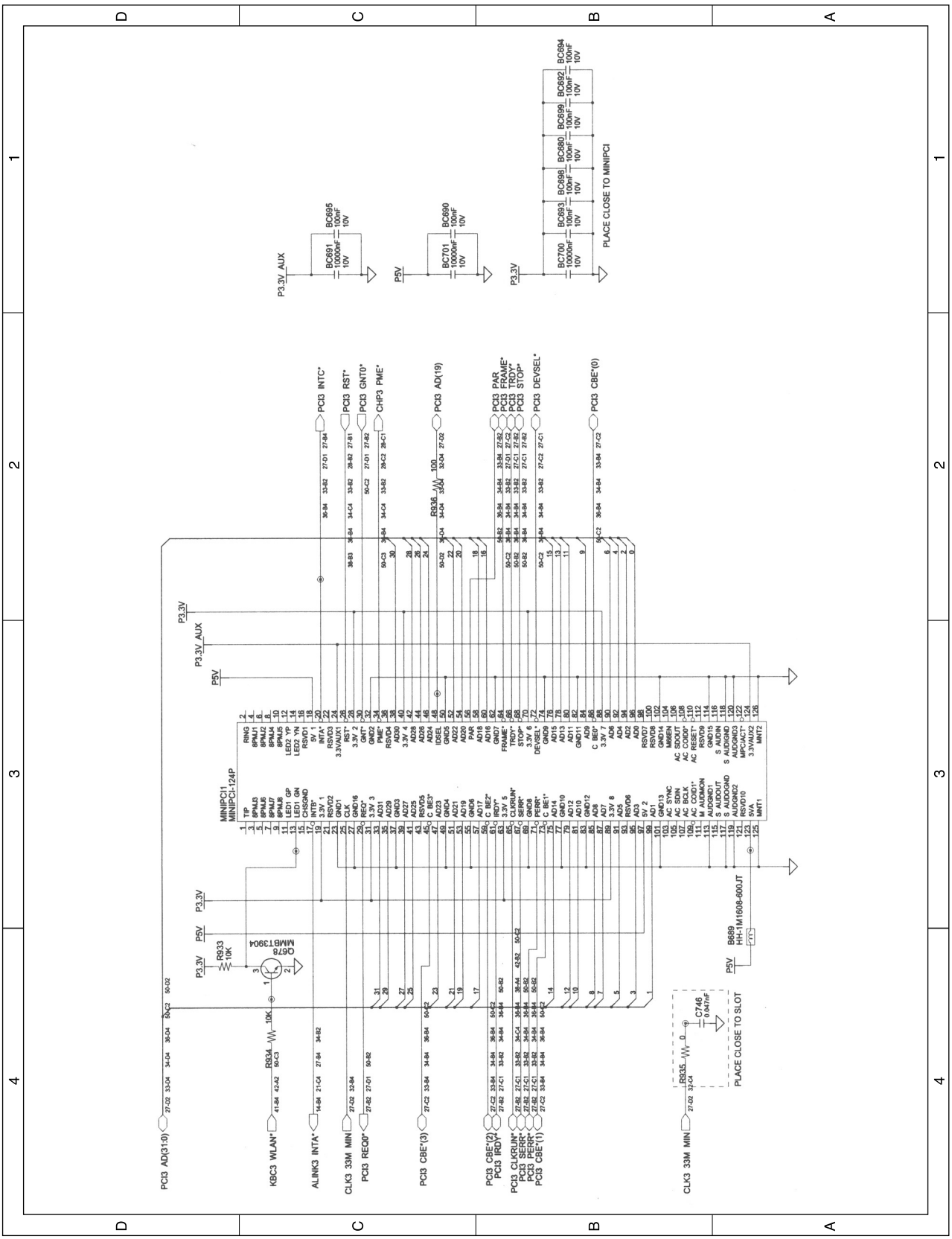
8-1-1(cc) Main Board Schematic Sheet 30 of 51(South Bridge Straps)



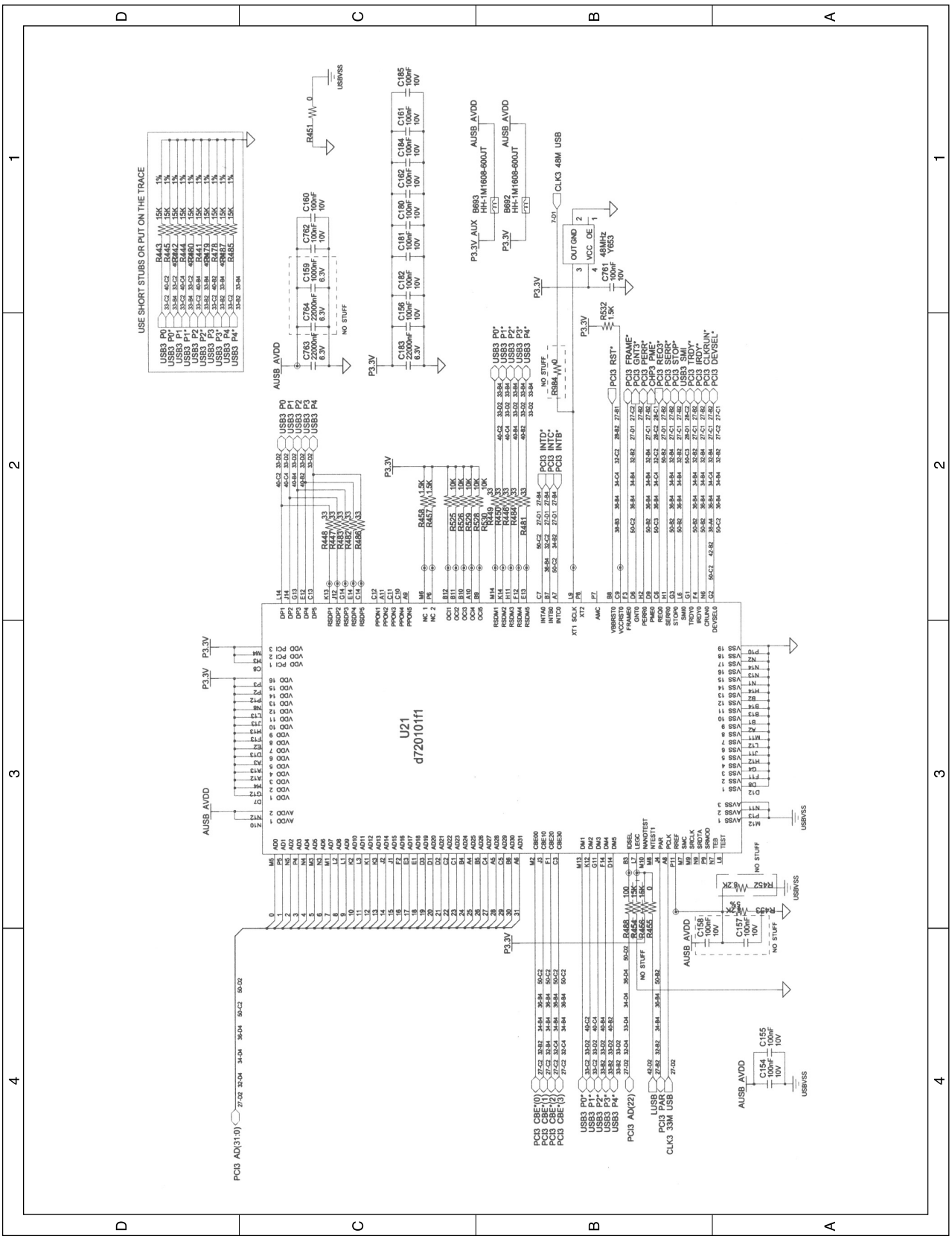
8-1-1(dd) Main Board Schematic Sheet 31 of 51(FWH)



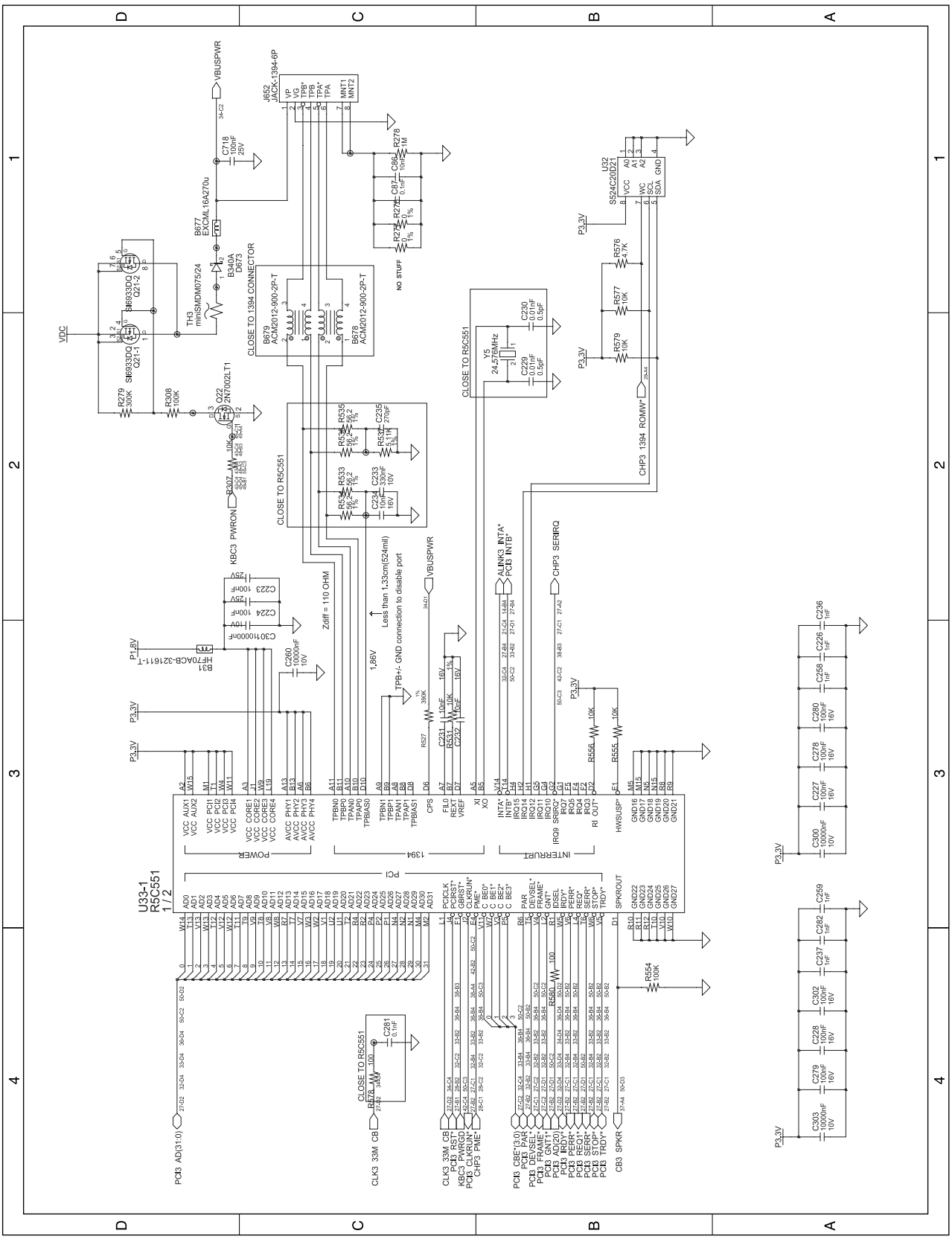
8-1-1(ee) Main Board Schematic Sheet 32 of 51(MINIPCI)



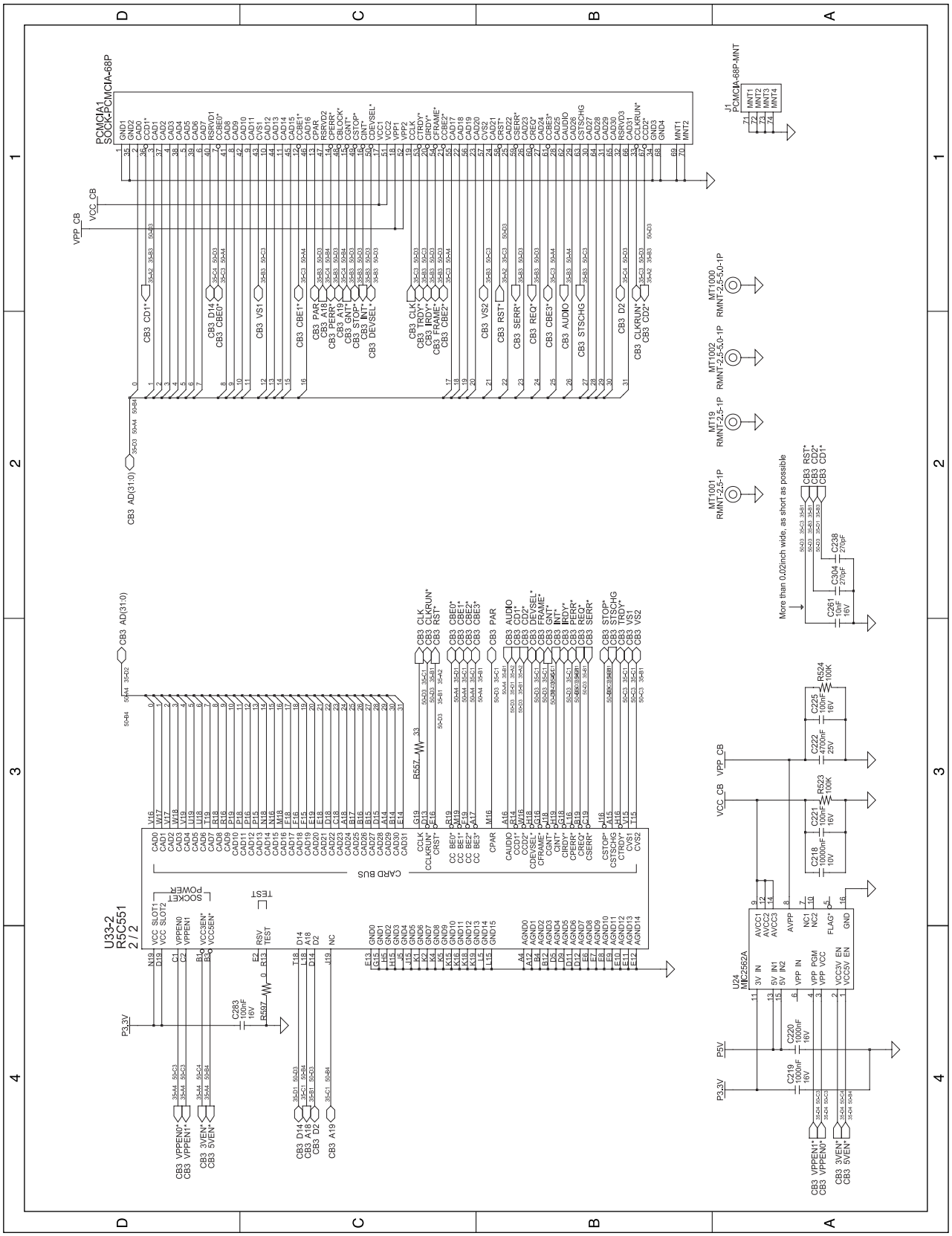
8-1-1(ff) Main Board Schematic Sheet 33 of 51(USB Controller)



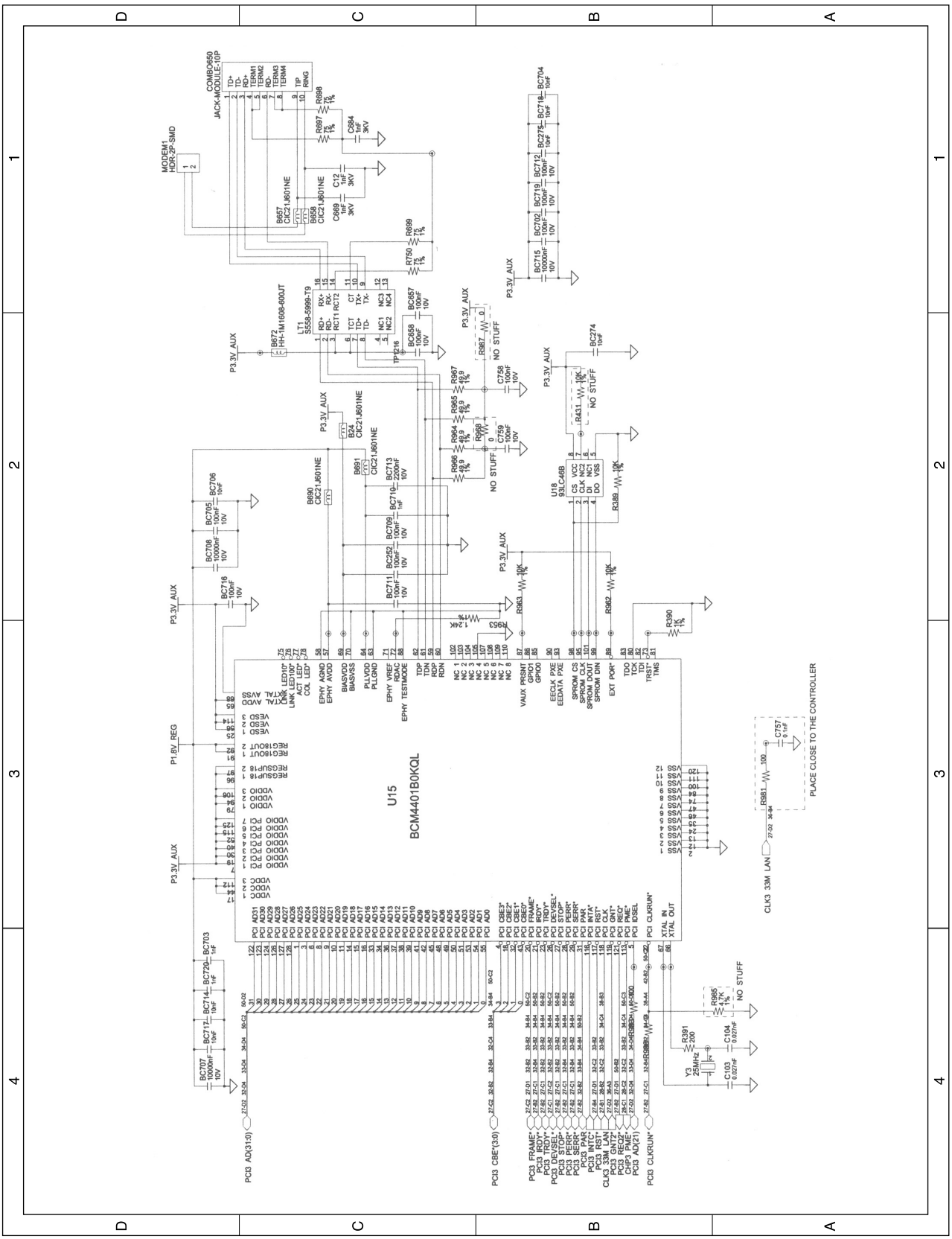
8-1-1(gg) Main Board Schematic Sheet 34 of 51(Cardbus Controller)



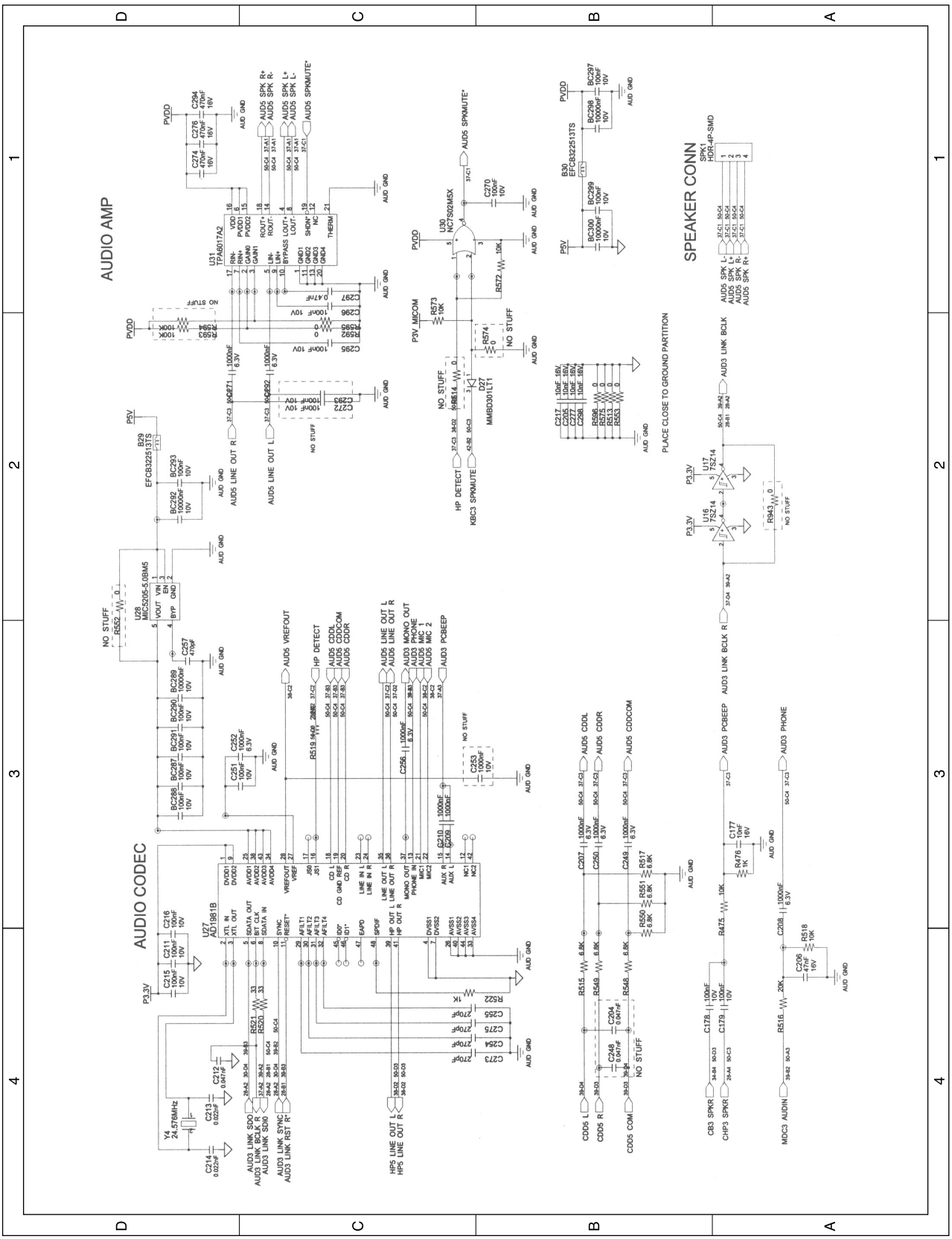
8-1-1(hh) Main Board Schematic Sheet 35 of 51(Cardbus Connector)



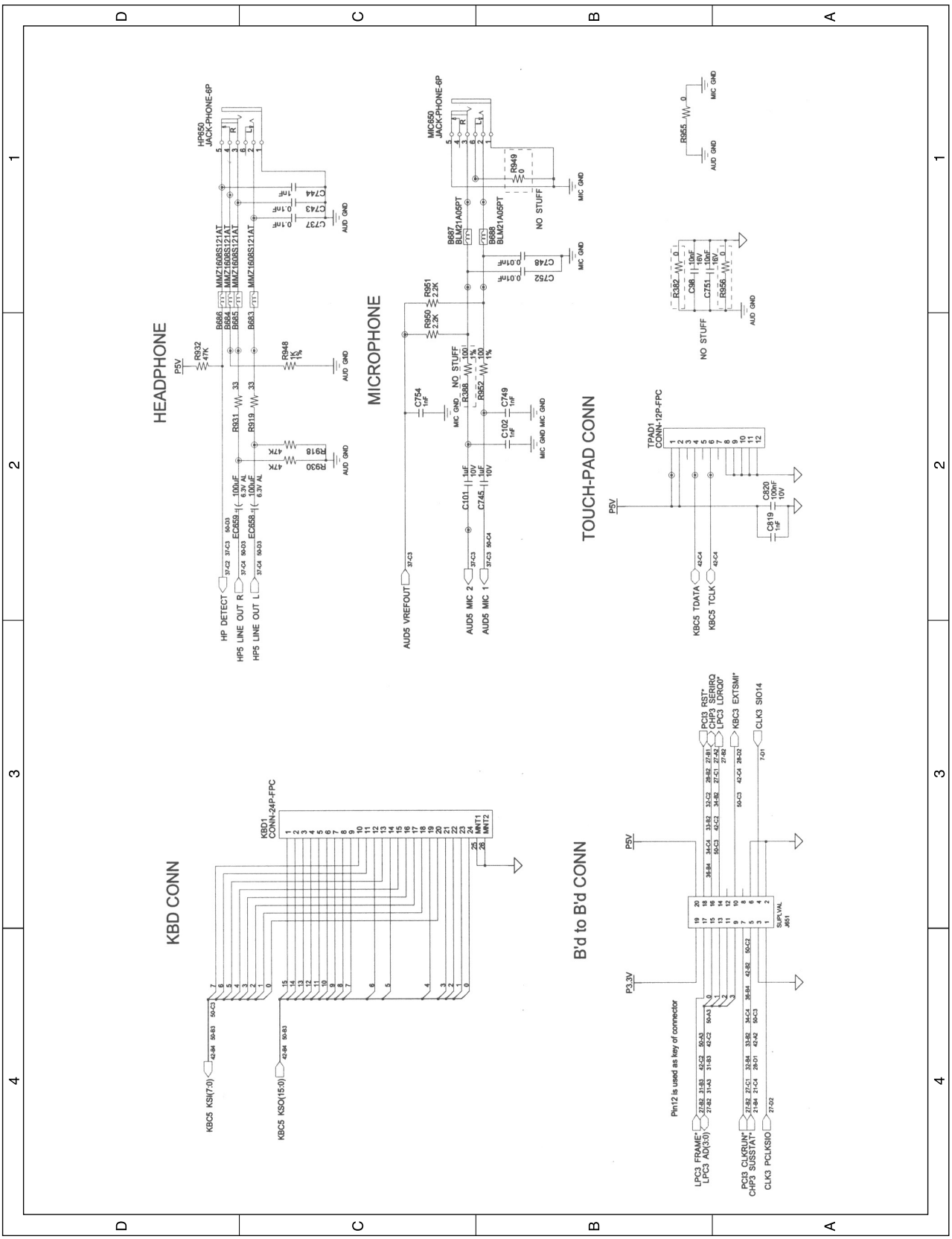
8-1-1(ii) Main Board Schematic Sheet 36 of 51(LAN Controller)



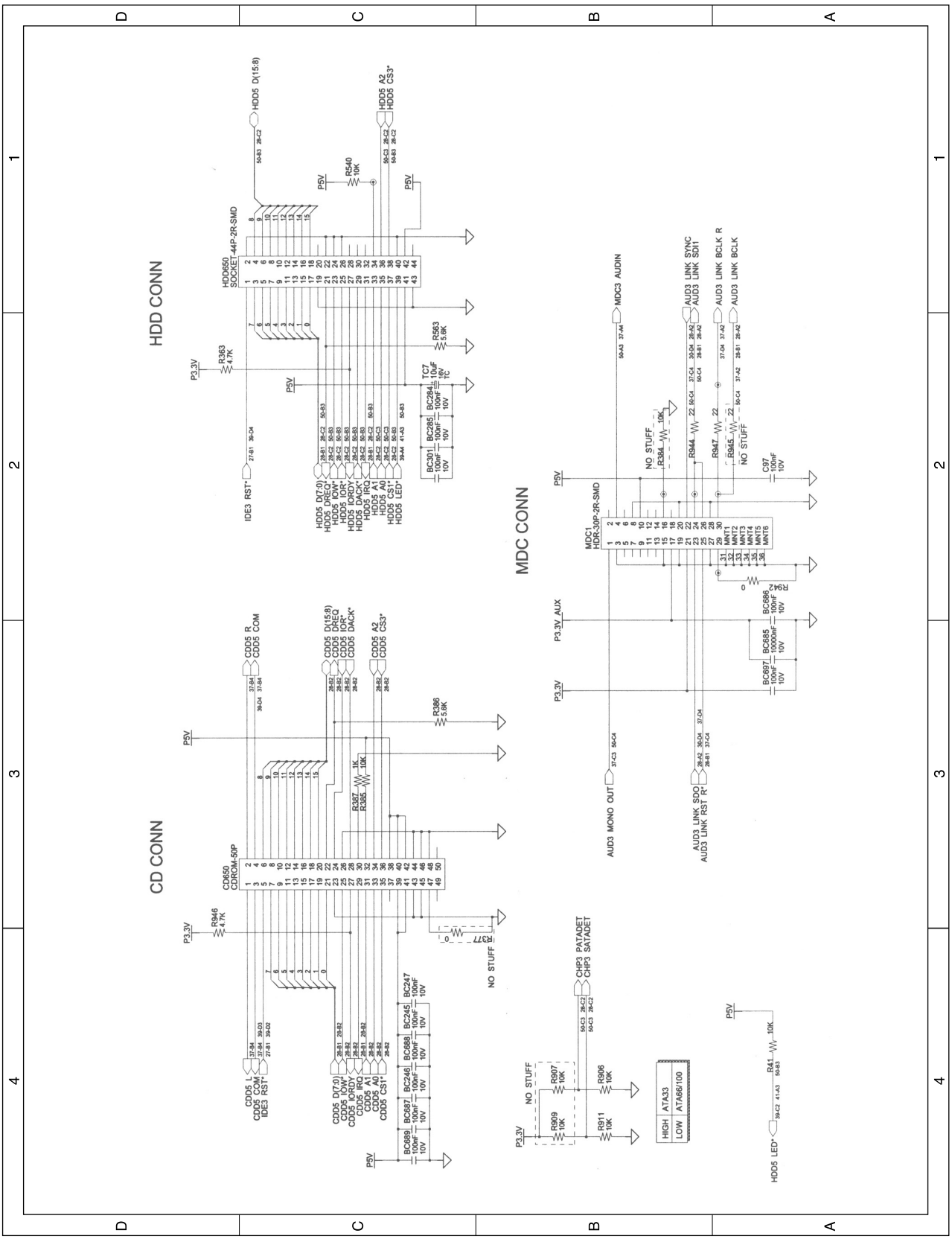
8-1-1(jj) Main Board Schematic Sheet 37 of 51(AC97 Audio Codec / AMP)



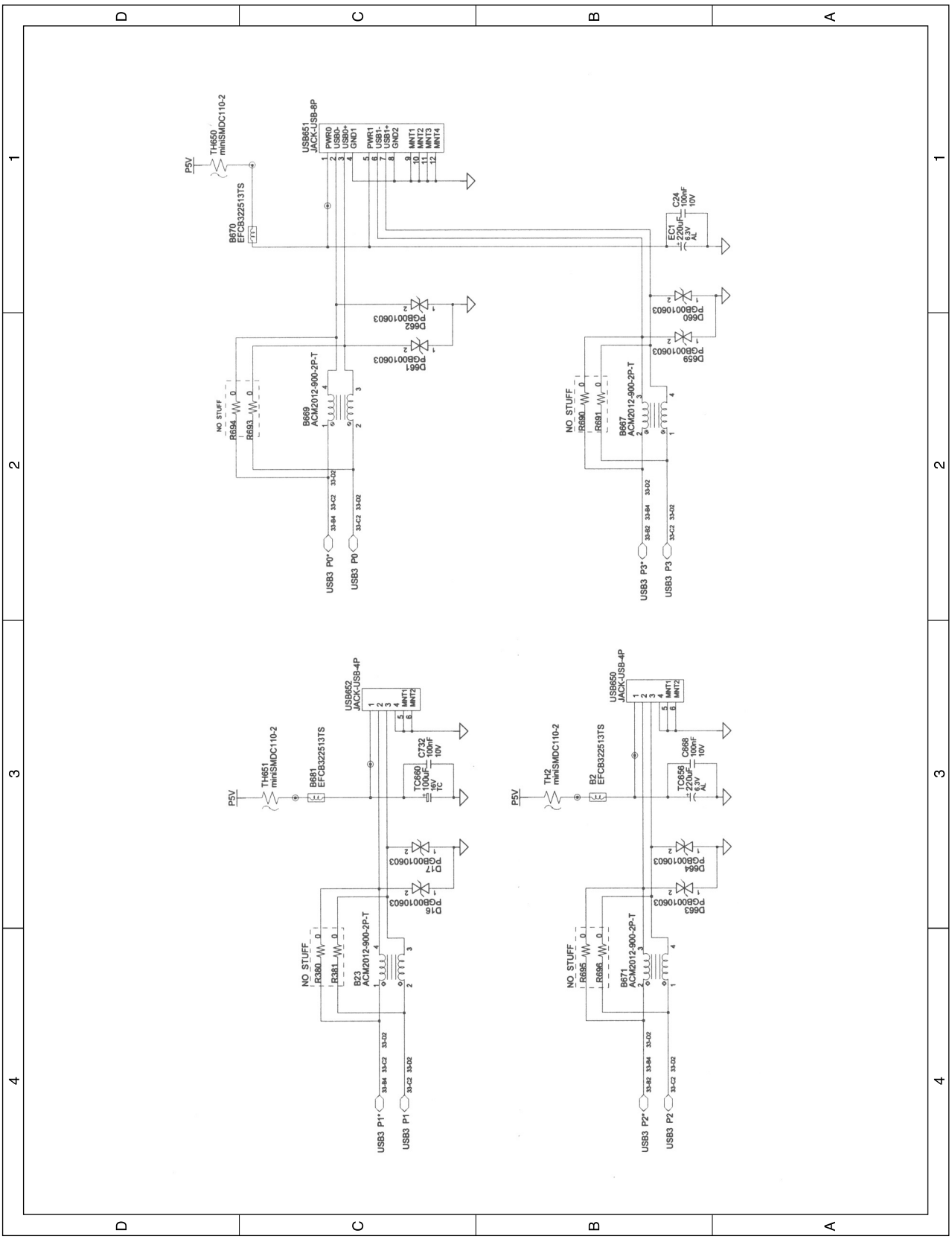
8-1-1(kk) Main Board Schematic Sheet 38 of 51(HP / MIC / KBD /Touch Pad Connector)



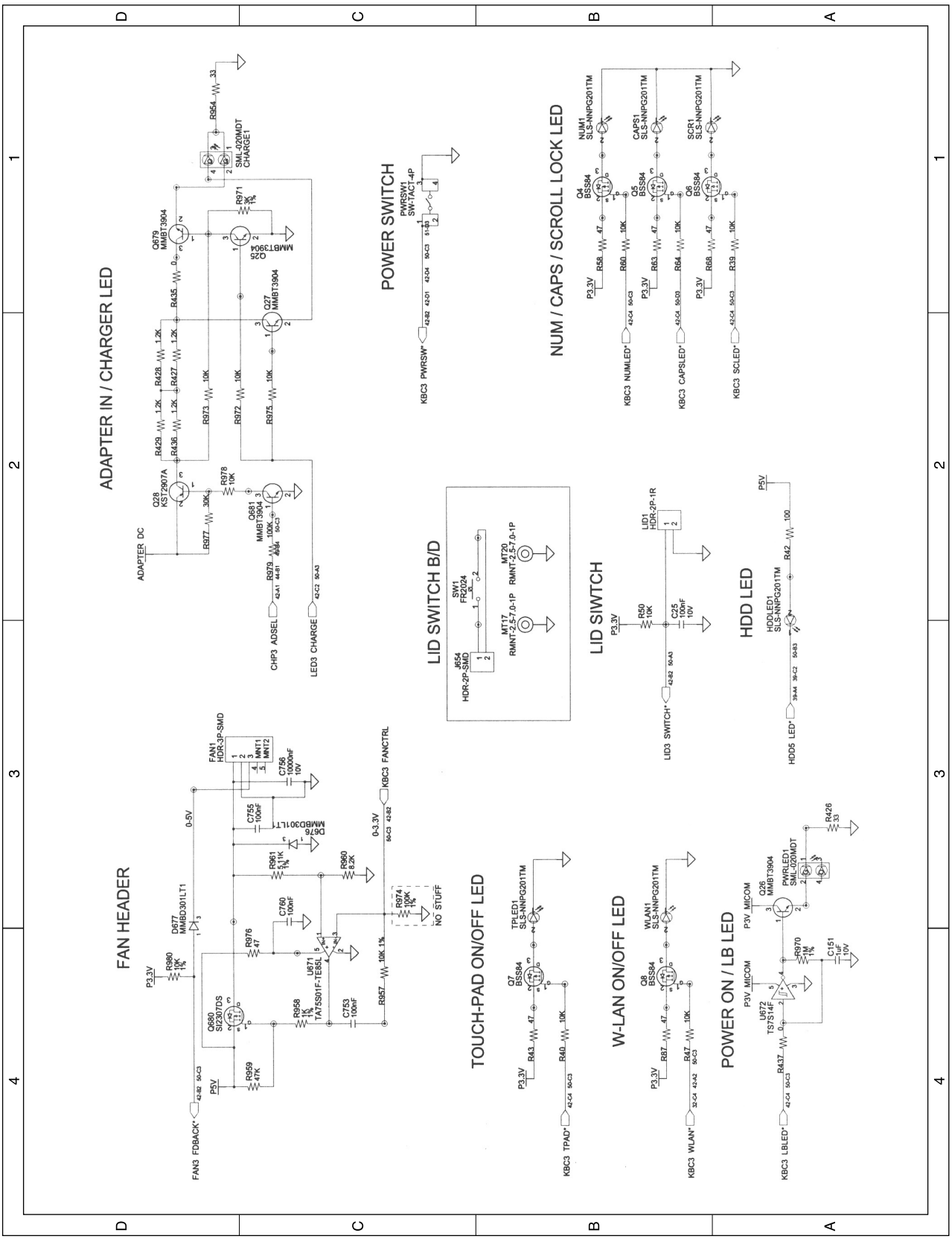
8-1-1(II) Main Board Schematic Sheet 39 of 51(HDD / CD/ MDC Connector)



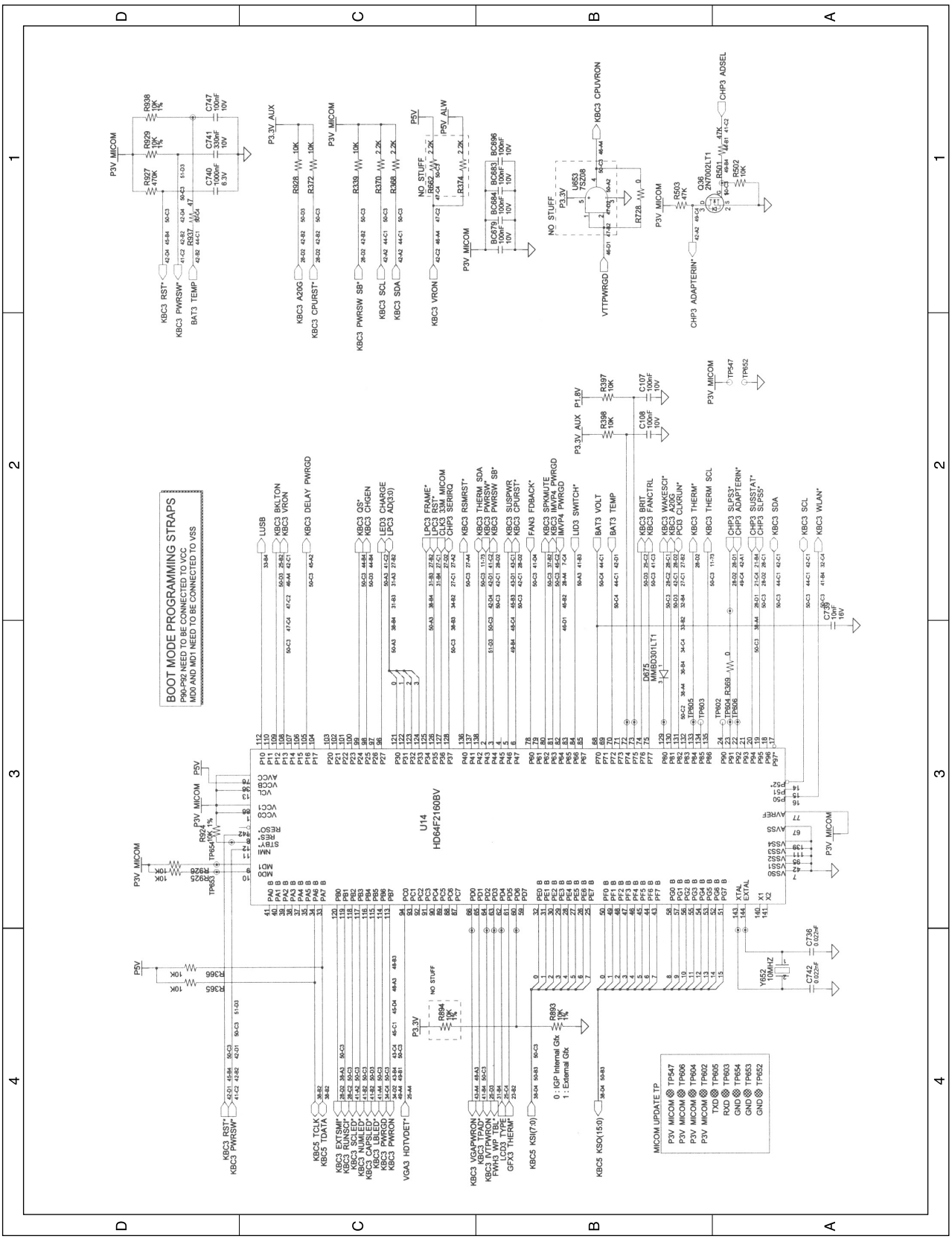
8-1-1(mm) Main Board Schematic Sheet 40 of 51(USB Ports)



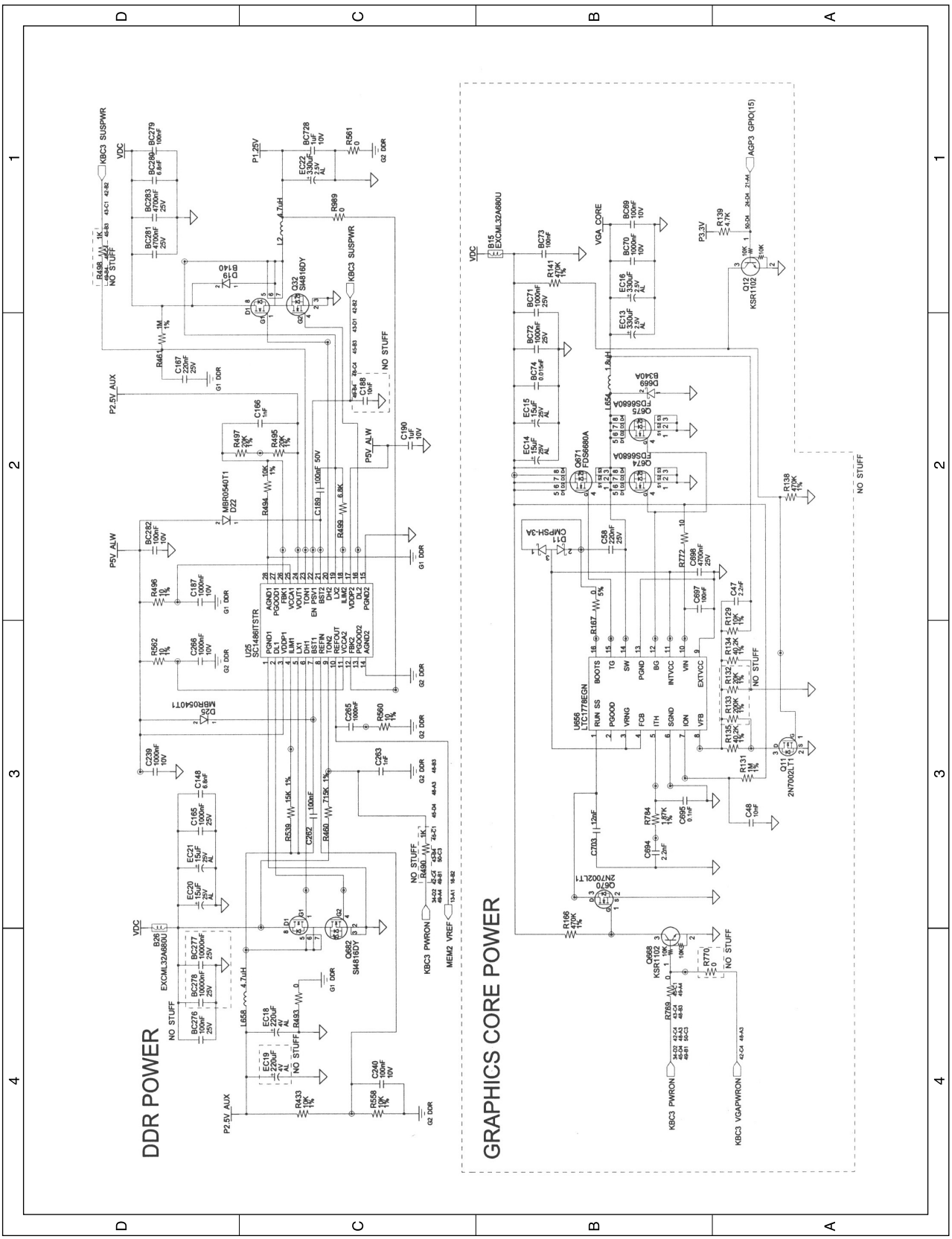
8-1-1(nn) Main Board Schematic Sheet 41 of 51(FAN / LED / SWITCH)



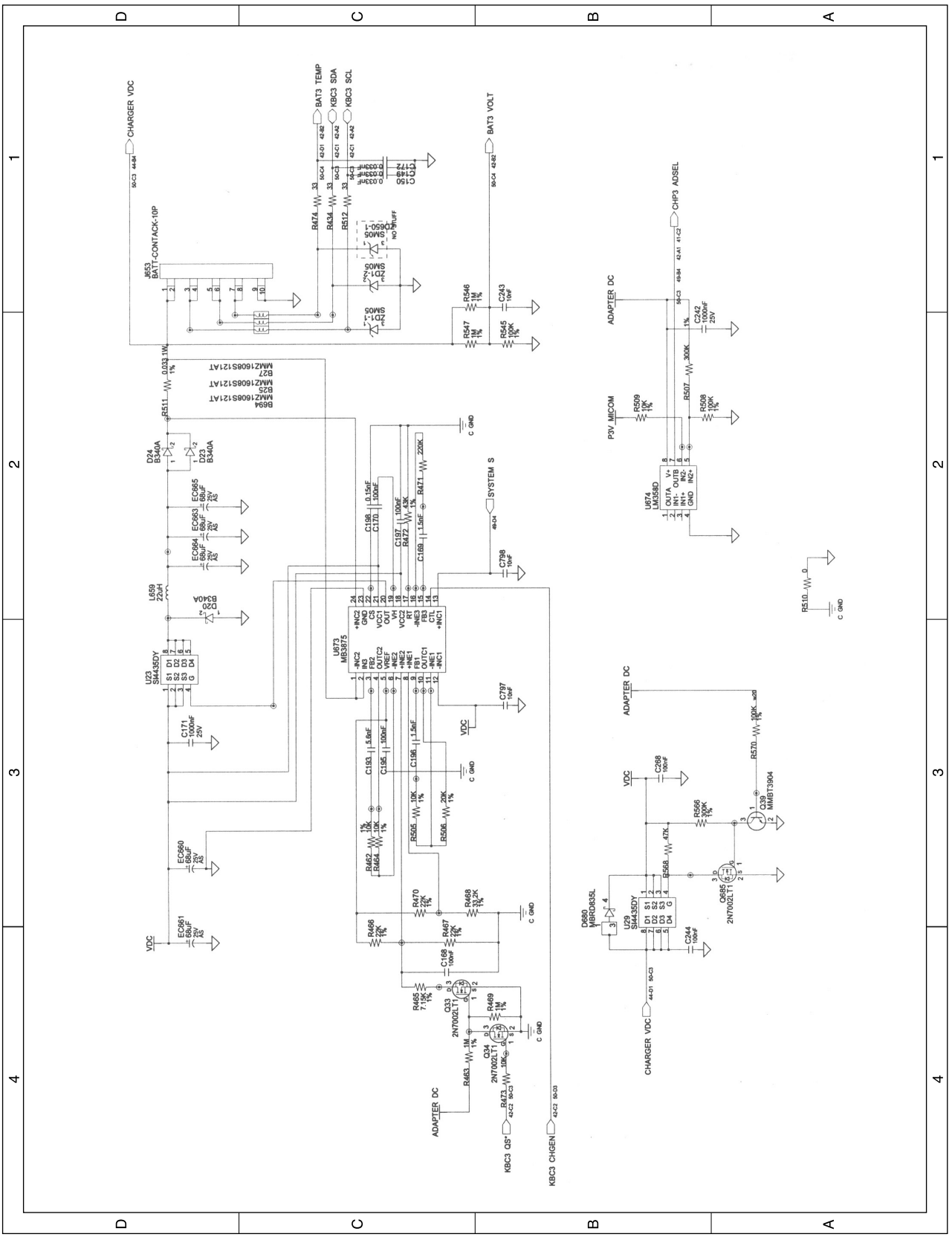
8-1-1(oo) Main Board Schematic Sheet 42 of 51(MICOM)



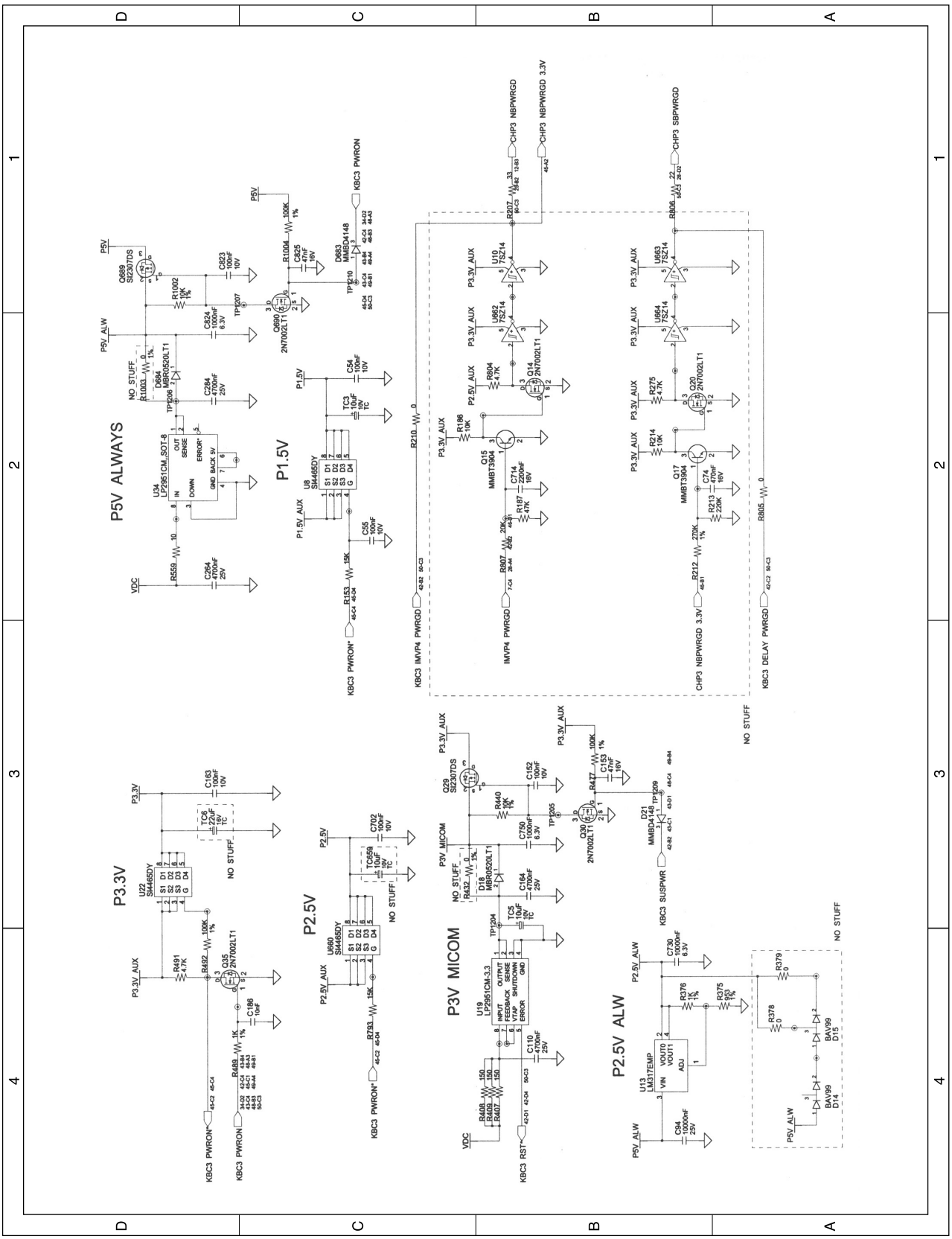
8-1-1(pp) Main Board Schematic Sheet 43 of 51(DDR / Graphics Core Power)



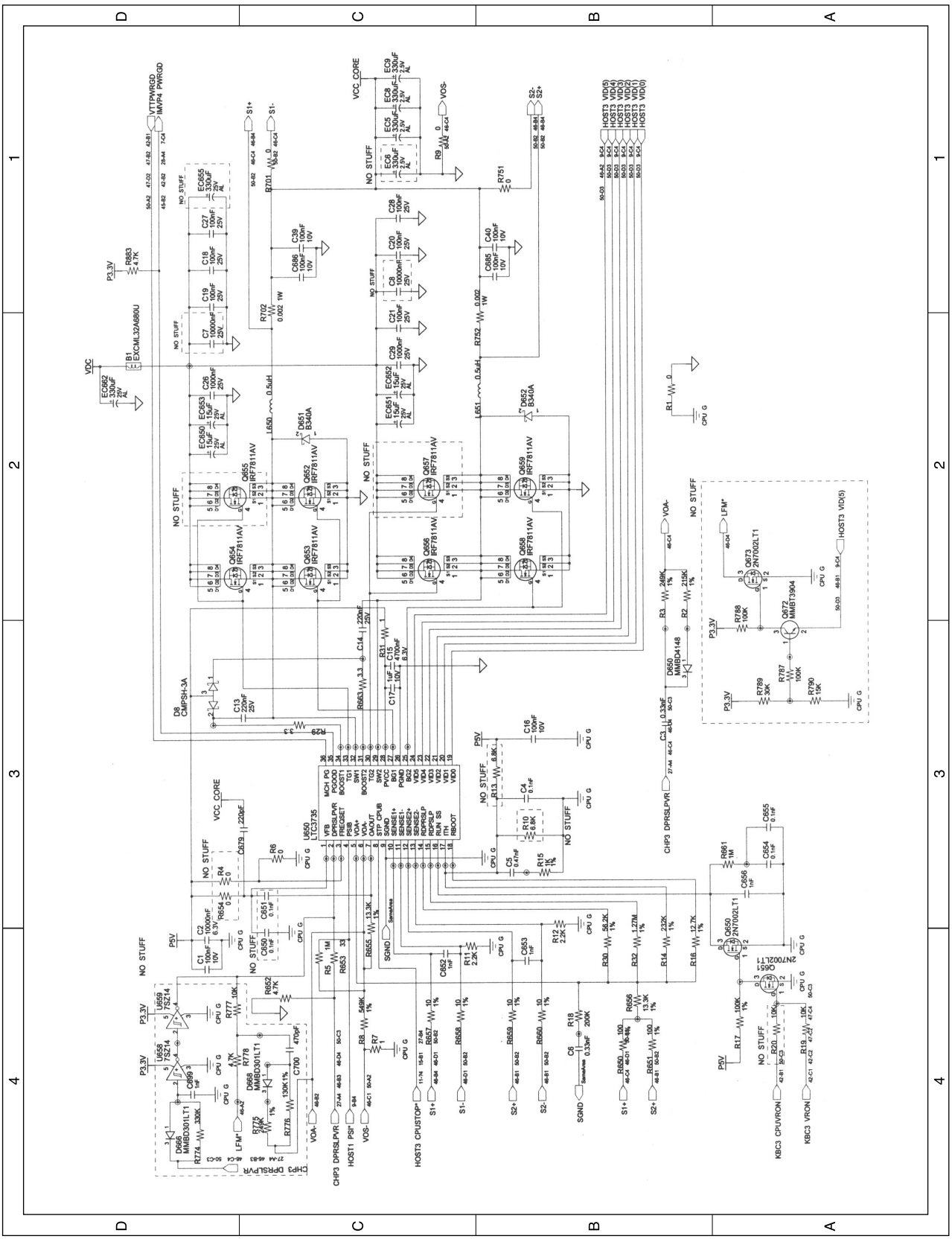
8-1-1(qq) Main Board Schematic Sheet 44 of 51(CHARGER)



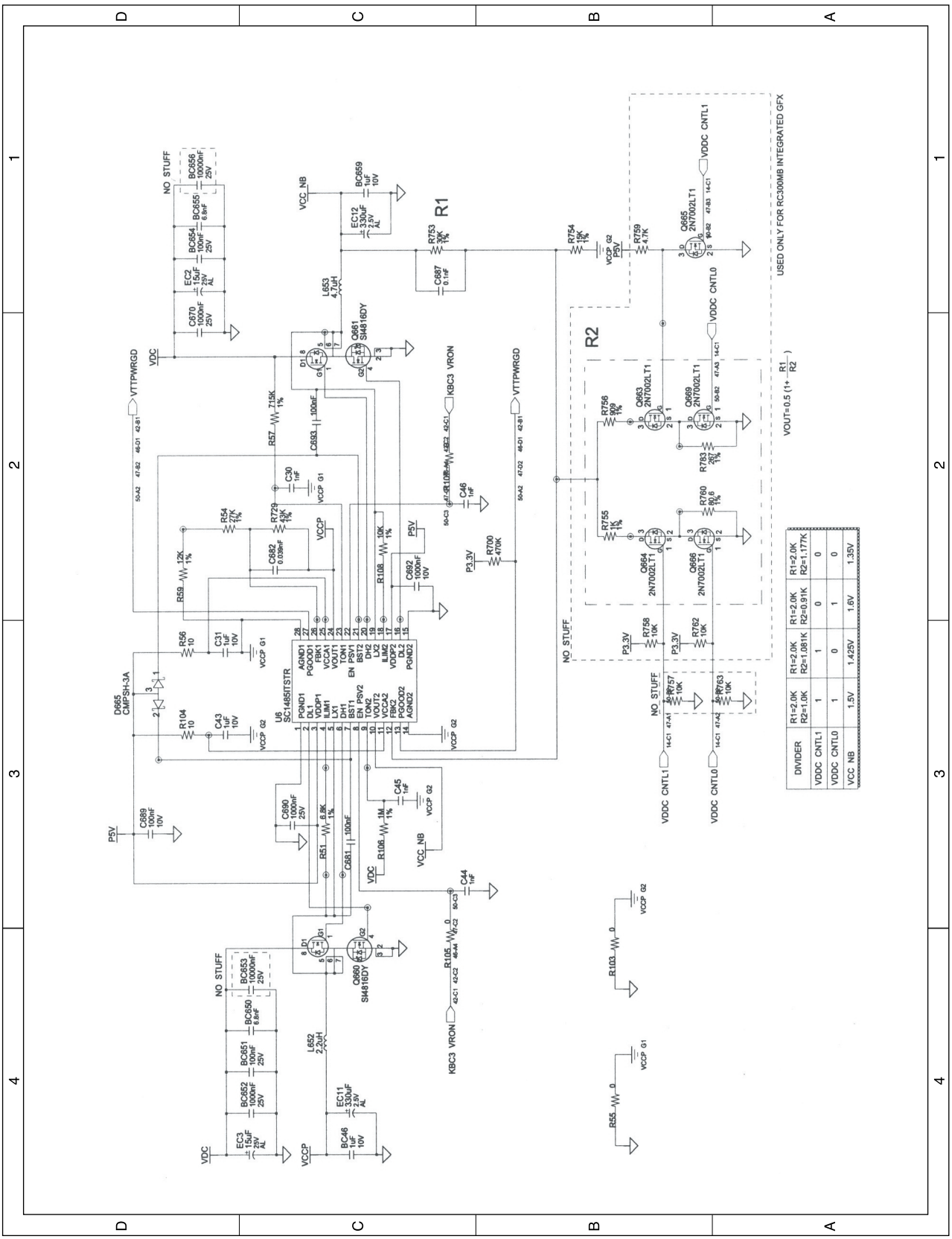
8-1-1(rr) Main Board Schematic Sheet 45 of 51(Switched Power)



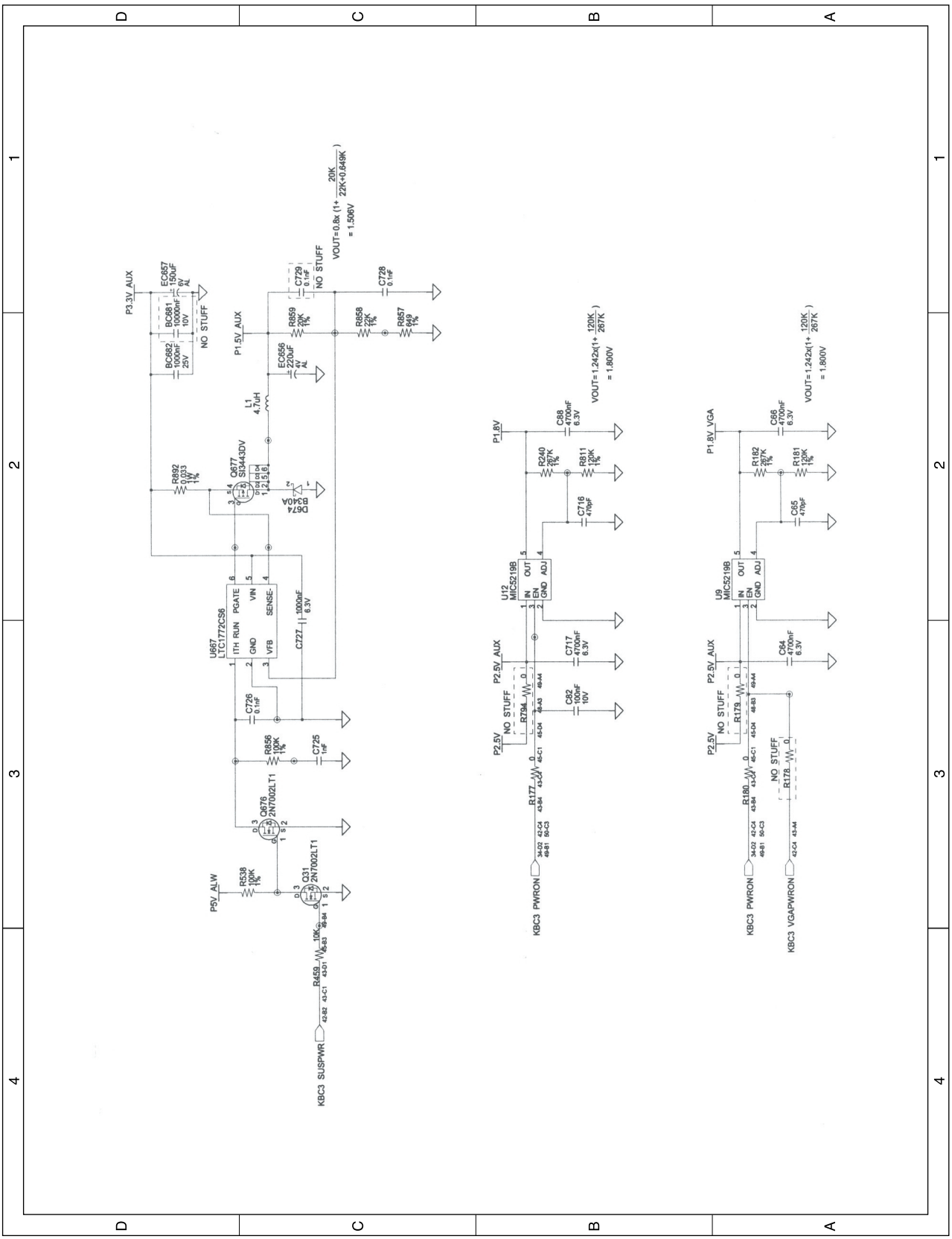
8-1-1(ss) Main Board Schematic Sheet 46 of 51(CPU Power)



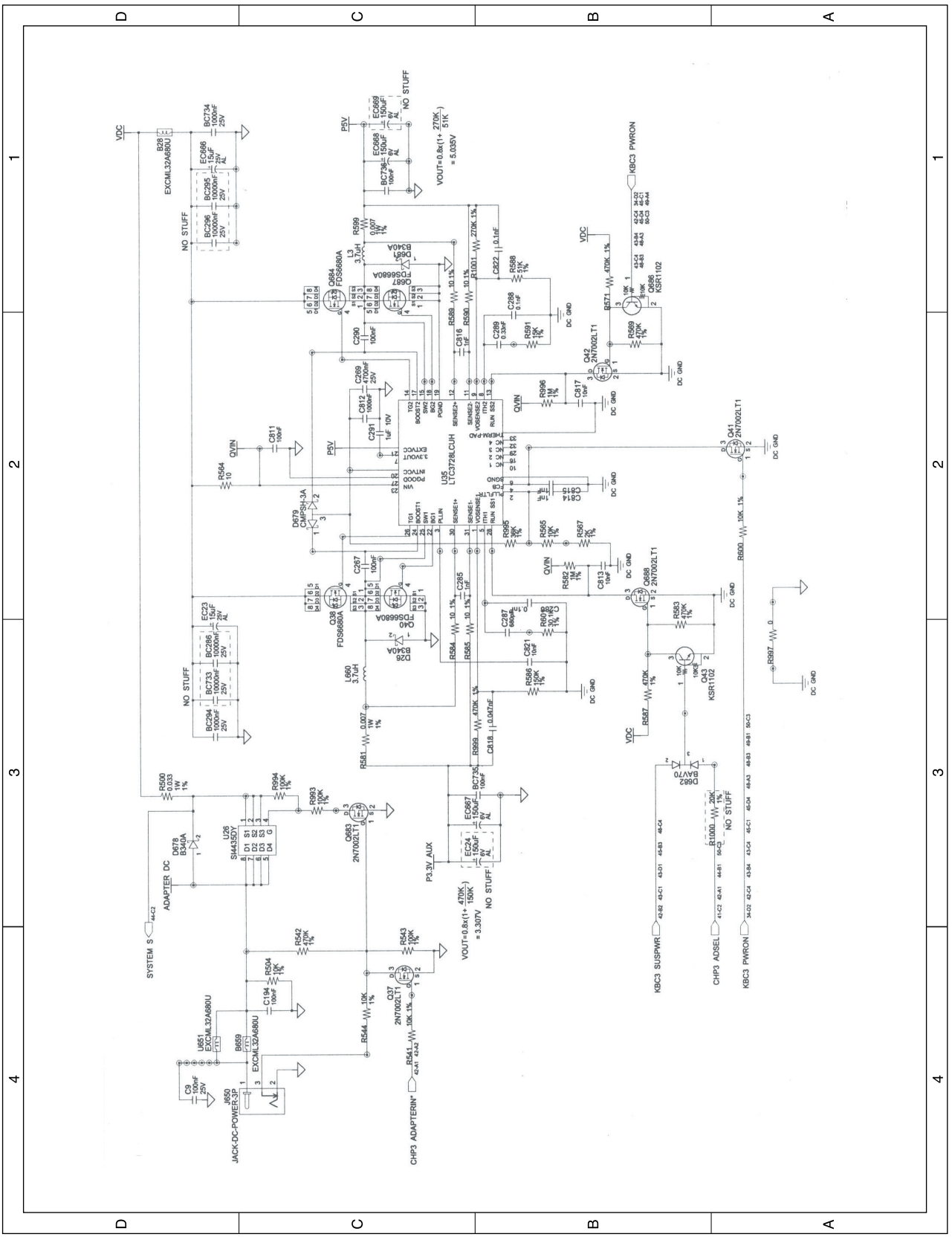
8-1-1(tt) Main Board Schematic Sheet 47 of 51(VCCP & North Bridge Power)



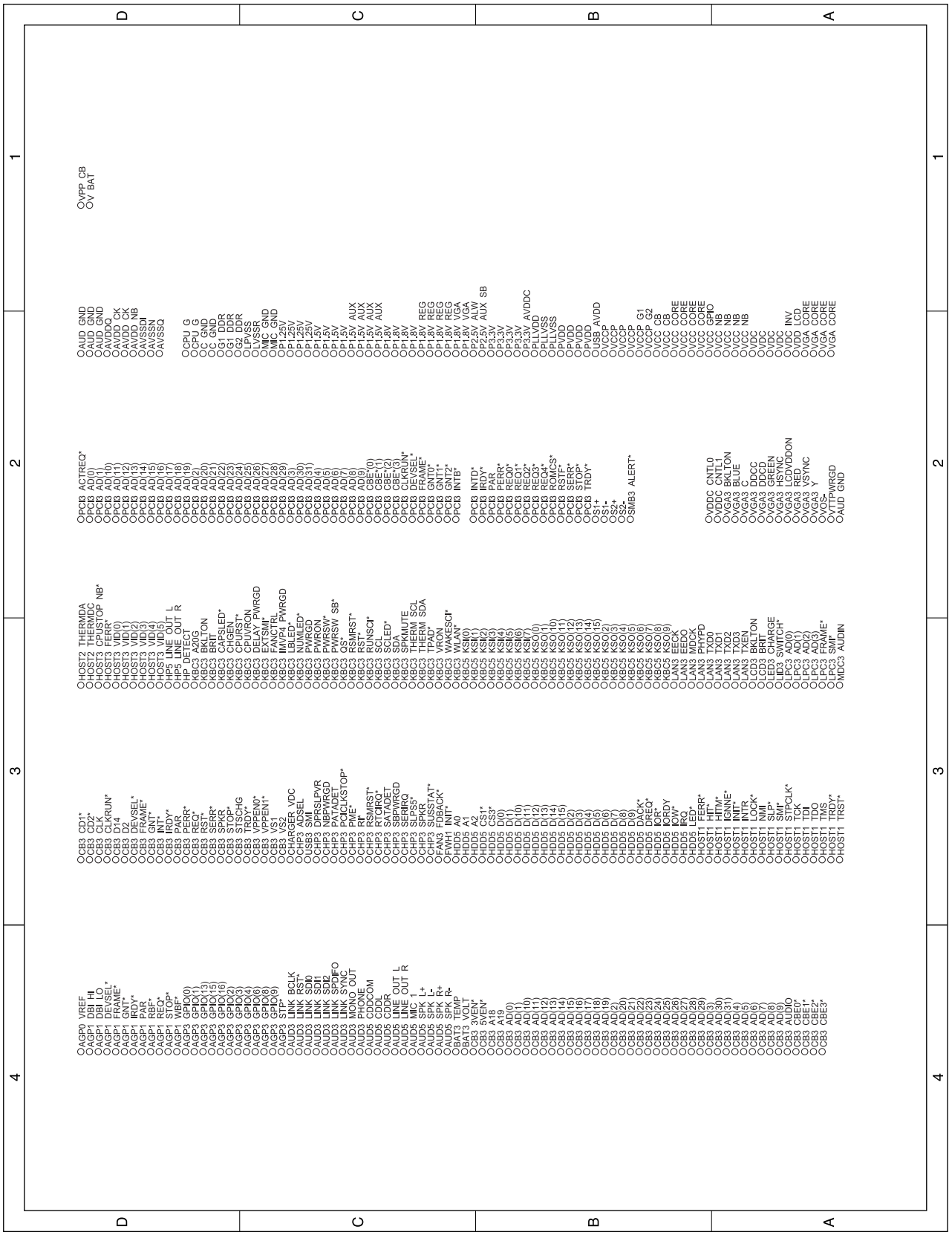
8-1-1(uu) Main Board Schematic Sheet 48 of 51(P1.5V / P1.8V Generation)



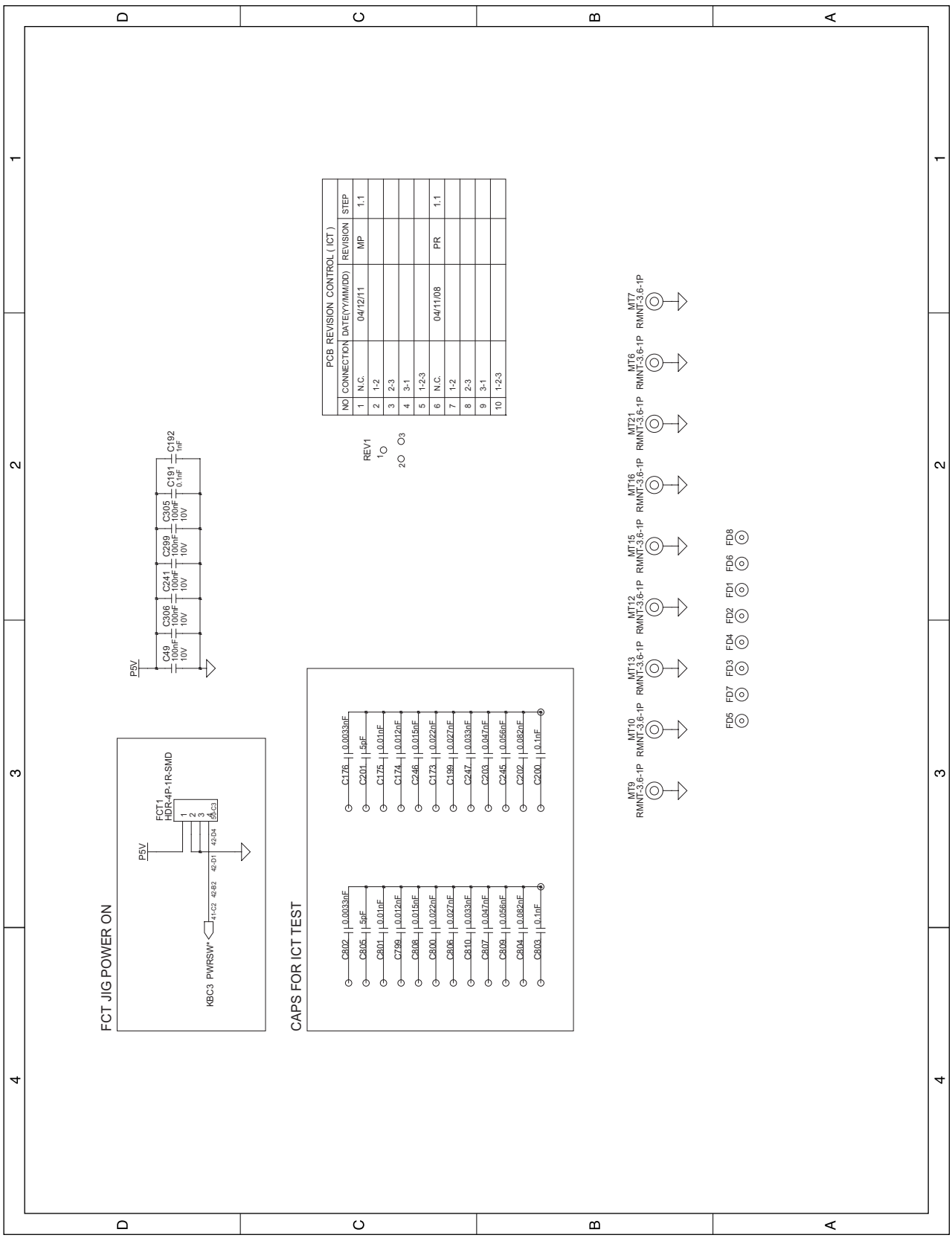
8-1-1(vv) Main Board Schematic Sheet 49 of 51(3.3V / 5V Generation)



8-1-1(ww) Main Board Schematic Sheet 50 of 51(Test Points)



8-1-1(xx) Main Board Schematic Sheet 51 of 51(PCB Sutffs)



8-1-2 Signal Location

Signal Name	Sheet Number - Location
AGP0 VREF	14-A4,14-C2,21-B4,50-D4
AGP1 AD(31)	14-D3,21-D4
AGP1 AD(2)	14-D3,21-D4
AGP1 AD(17)	14-D3,21-D4
AGP1 AD(14)	14-D3,21-D4
AGP1 AD(21)	14-D3,21-D4
AGP1 AD(1)	14-D3,21-D4
AGP1 AD(12)	14-D3,21-D4
AGP1 AD(19)	14-D3,21-D4
AGP1 AD(8)	14-D3,21-D4
AGP1 AD(28)	14-D3,21-D4
AGP1 AD(4)	14-D3,21-D4
AGP1 AD(10)	14-D3,21-D4
AGP1 AD(23)	14-D3,21-D4
AGP1 AD(13)	14-D3,21-D4
AGP1 AD(11)	14-D3,21-D4
AGP1 AD(3)	14-D3,21-D4
AGP1 AD(6)	14-D3,21-D4
AGP1 AD(18)	14-D3,21-D4
AGP1 AD(30)	14-D3,21-D4
AGP1 AD(9)	14-D3,21-D4
AGP1 AD(5)	14-D3,21-D4
AGP1 AD(15)	14-D3,21-D4
AGP1 AD(20)	14-D3,21-D4
AGP1 AD(16)	14-D3,21-D4
AGP1 AD(29)	14-D3,21-D4
AGP1 AD(27)	14-D3,21-D4
AGP1 AD(25)	14-D3,21-D4
AGP1 AD(22)	14-D3,21-D4
AGP1 AD(24)	14-D3,21-D4
AGP1 AD(7)	14-D3,21-D4
AGP1 AD(0)	14-D3,21-D4
AGP1 AD(26)	14-D3,21-D4
AGP1 AD(31:0)	14-D3,21-D4
AGP1 ADSTB0	14-C3,21-C4
AGP1 ADSTB0*	14-C3,21-C4
AGP1 ADSTB1	14-C3,21-C4

Signal Name	Sheet Number - Location
AGP1 ADSTB1*	14-B3,21-C4
AGP1 CBE*(2)	14-B3,21-D1
AGP1 CBE*(0)	14-B3,21-D1
AGP1 CBE*(3)	14-B3,21-D1
AGP1 CBE*(1)	14-B3,21-D1
AGP1 CBE*(3:0)	14-B3,21-D1
AGP1 DBI HI	14-B3,22-B1,50-D4
AGP1 DBI LO	14-B3,22-B1,50-D4
AGP1 DEVSEL*	14-B3,21-D4,50-D4
AGP1 FRAME*	14-B3,21-C4,50-D4
AGP1 GNT*	14-B4,21-D4,50-D4
AGP1 IRDY*	14-B3,21-D4,50-D4
AGP1 PAR	14-B3,21-D4,50-D4
AGP1 RBF*	14-B3,21-C4,50-D4
AGP1 REQ*	14-B4,21-D4,50-D4
AGP1 SBA(0)	14-B3,14-C2,21-C4
AGP1 SBA(6)	14-B3,14-D2,21-C4
AGP1 SBA(2)	14-B3,14-D2,21-C4
AGP1 SBA(3)	14-B3,14-D2,21-C4
AGP1 SBA(5)	14-B3,14-D2,21-C4
AGP1 SBA(7)	14-B3,14-D2,21-C4
AGP1 SBA(4)	14-B3,14-D2,21-C4
AGP1 SBA(1)	14-B3,14-C2,21-C4
AGP1 SBA(7:0)	14-B3,21-C4
AGP1 SBSTB	14-C3,14-D2,21-C4
AGP1 SBSTB*	14-C3,21-C4
AGP1 ST(1)	14-B3,21-C4
AGP1 ST(0)	14-B3,21-C4
AGP1 ST(2)	14-B3,21-C4
AGP1 ST(2:0)	14-B3,21-C4
AGP1 STOP*	14-B3,21-D4,50-D4
AGP1 TRDY*	14-B3,21-D4
AGP1 WBF*	14-B3,21-C4,50-D4
AGP3 BUSY*	14-D1,21-C4,28-A4,28-C1
AGP3 DMINUS	21-D1,23-B2
AGP3 DPLUS	21-D1,23-B2
AGP3 GPIO(13)	21-A4,24-D4,50-D4

Signal Name	Sheet Number - Location
AGP3 GPIO(12)	21-A4,24-D4
AGP3 GPIO(8)	21-A4,24-D4,50-C4
AGP3 GPIO(6)	21-A4,24-D4,50-C4
AGP3 GPIO(5)	21-A4,24-D4
AGP3 GPIO(4)	21-A4,24-D4,50-C4
AGP3 GPIO(3)	21-A4,24-D4,50-C4
AGP3 GPIO(2)	21-A4,24-D4,50-D4
AGP3 GPIO(1)	21-A4,24-D4,50-D4
AGP3 GPIO(0)	21-A4,24-D4,50-D4
AGP3 GPIO(15)	21-A4,24-D4,43-A1,50-D4
AGP3 GPIO(16)	21-A4,23-D1,24-D4,50-D4
AGP3 GPIO(11)	21-A4,24-D4
AGP3 GPIO(9)	21-A4,24-D4,50-C4
AGP3 GPIO(7)	21-A4,24-D4
AGP3 GPIO(10)	21-A4,24-D4
AGP3 GPIO(14)	21-A4,24-D4
AGP3 GPIO(16:0)	21-A4,24-D4
AGP3 RST*	21-D4,27-C1
AGP3 STP*	14-D1,21-C4,28-A4, 28-C1, 50-C4
ALINK3 ACAT*	14-B4,27-C4
ALINK3 AD(28)	14-D4,17-C3,27-D4
ALINK3 AD(19)	14-D4,17-B3,27-D4
ALINK3 AD(27)	14-D4,17-C3,27-D4
ALINK3 AD(26)	14-D4,17-C3,27-D4
ALINK3 AD(13)	14-D4,27-D4
ALINK3 AD(16)	14-D4,27-D4
ALINK3 AD(17)	14-D4,17-C3,27-D4
ALINK3 AD(5)	14-D4,27-D4
ALINK3 AD(7)	14-D4,27-D4
ALINK3 AD(0)	14-D4,27-D4
ALINK3 AD(3)	14-D4,27-D4
ALINK3 AD(22)	14-D4,17-B3,27-D4
ALINK3 AD(6)	14-D4,27-D4
ALINK3 AD(14)	14-D4,27-D4
ALINK3 AD(4)	14-D4,27-D4
ALINK3 AD(9)	14-D4,27-D4

Signal Name	Sheet Number - Location
ALINK3 AD(20)	14-D4,17-B3,27-D4
ALINK3 AD(15)	14-D4,27-D4
ALINK3 AD(8)	14-D4,27-D4
ALINK3 AD(29)	14-D4,17-C3,27-D4
ALINK3 AD(24)	14-D4,17-C3,27-D4
ALINK3 AD(1)	14-D4,27-D4
ALINK3 AD(25)	14-D4,17-C3,27-D4
ALINK3 AD(18)	14-D4,17-B3,27-D4
ALINK3 AD(2)	14-D4,27-D4
ALINK3 AD(23)	14-D4,17-B3,27-D4
ALINK3 AD(10)	14-D4,27-D4
ALINK3 AD(12)	14-D4,27-D4
ALINK3 AD(21)	14-D4,17-B3,27-D4
ALINK3 AD(31)	14-D4,17-D3,27-D4
ALINK3 AD(11)	14-D4,27-D4
ALINK3 AD(30)	14-D4,17-D3,27-D4
ALINK3 AD(31:0)	14-D4,27-D4
ALINK3 CBE*(3)	14-C4,27-C4
ALINK3 CBE*(1)	14-C4,27-C4
ALINK3 CBE*(2)	14-C4,27-C4
ALINK3 CBE*(0)	14-C4,27-C4
ALINK3 CBE*(3:0)	14-C4,27-C4
ALINK3 DEVSEL*	14-B4,27-C4
ALINK3 END*	14-B4,27-C4
ALINK3 GNT*	14-B4,27-B4
ALINK3 INTA*	14-B4,21-C4,27-B4,32-C4, 34-B2
ALINK3 OFF*	14-B4,27-C4
ALINK3 PAR	14-B4,17-B3,27-C4
ALINK3 REQ*	14-B4,27-C4
ALINK3 RST*	12-B4,15-B1,27-C2,27-D4
ALINK3 STROBE*	14-B4,27-C4
AUD3 LINK BCLK	28-A2,28-B1,37-A2,39-A2, 50-C4
AUD3 LINK BCLK R	37-A2,37-D4,39-A2
AUD3 LINK RST*	28-A2,28-B2,28-C1,50-C4
AUD3 LINK RST R*	28-B1,37-C4,39-B3
AUD3 LINK SDI0	28-A2,28-B1,37-C4,50-C4

Signal Name	Sheet Number - Location
AUD3 LINK SDI1	28-A2,28-B1,39-B2,50-C4
AUD3 LINK SDI2	28-A2,28-B1,50-C4
AUD3 LINK SDO	28-A2,30-D4,37-D4,39-B3
AUD3 LINK SPDIFO	28-A2,30-D4,50-C4
AUD3 LINK SYNC	28-A2,30-D4,37-C4,39-B2, 50-C4
AUD3 MONO OUT	37-C3,39-B3,50-C4
AUD3 PCBEEP	37-A3,37-C3
AUD3 PHONE	37-A3,37-C3,50-C4
AUD5 CDDCOM	37-B3,37-C3,50-C4
AUD5 CDDL	37-B3,37-C3,50-C4
AUD5 CDDR	37-B3,37-C3,50-C4
AUD5 LINE OUT L	37-C2,37-C3,50-C4
AUD5 LINE OUT R	37-C3,37-D2,50-C4
AUD5 MIC 1	37-C3,38-C2,50-C4
AUD5 MIC 2	37-C3,38-C2
AUD5 SPKMUTE*	37-C1,37-C1
AUD5 SPK L+	37-A1,37-C1,50-C4
AUD5 SPK L-	37-A1,37-C1,50-C4
AUD5 SPK R+	37-A1,37-C1,50-C4
AUD5 SPK R-	37-A1,37-C1,50-C4
AUD5 VREFOUT	37-C3,38-C2
BAT3 TEMP	42-B2,42-D1,44-C1,50-C4
BAT3 VOLT	42-B2,44-C1,50-C4
CB3 3VEN*	35-A4,35-D4,50-C4
CB3 5VEN*	35-A4,35-D4,50-B4
CB3 A18	35-C1,35-C4,50-B4
CB3 A19	35-C1,35-C4,50-B4
CB3 AD(20)	35-D2,35-D3,50-B4
CB3 AD(19)	35-D2,35-D3,50-B4
CB3 AD(18)	35-D2,35-D3,50-B4
CB3 AD(6)	35-D2,35-D3,50-A4
CB3 AD(25)	35-D2,35-D3,50-B4
CB3 AD(24)	35-D2,35-D3,50-B4
CB3 AD(2)	35-D2,35-D3,50-B4
CB3 AD(11)	35-D2,35-D3,50-B4
CB3 AD(14)	35-D2,35-D3,50-B4

Signal Name	Sheet Number - Location
CB3 AD(31)	35-D2,35-D3,50-A4
CB3 AD(8)	35-D2,35-D3,50-A4
CB3 AD(7)	35-D2,35-D3,50-A4
CB3 AD(27)	35-D2,35-D3,50-B4
CB3 AD(21)	35-D2,35-D3,50-B4
CB3 AD(29)	35-D2,35-D3,50-B4
CB3 AD(12)	35-D2,35-D3,50-B4
CB3 AD(1)	35-D2,35-D3,50-B4
CB3 AD(0)	35-D2,35-D3,50-B4
CB3 AD(13)	35-D2,35-D3,50-B4
CB3 AD(23)	35-D2,35-D3,50-B4
CB3 AD(22)	35-D2,35-D3,50-B4
CB3 AD(10)	35-D2,35-D3,50-B4
CB3 AD(9)	35-D2,35-D3,50-A4
CB3 AD(26)	35-D2,35-D3,50-B4
CB3 AD(17)	35-D2,35-D3,50-B4
CB3 AD(16)	35-D2,35-D3,50-B4
CB3 AD(4)	35-D2,35-D3,50-A4
CB3 AD(3)	35-D2,35-D3,50-B4
CB3 AD(15)	35-D2,35-D3,50-B4
CB3 AD(30)	35-D2,35-D3,50-B4
CB3 AD(5)	35-D2,35-D3,50-A4
CB3 AD(28)	35-D2,35-D3,50-B4
CB3 AD(31:0)	35-D2,35-D3
CB3 AUDIO	35-B1,35-B3,50-A4
CB3 CBE0*	35-C3,35-D1,50-A4
CB3 CBE1*	35-C1,35-C3,50-A4
CB3 CBE2*	35-C1,35-C3,50-A4
CB3 CBE3*	35-B1,35-C3,50-A4
CB3 CD1*	35-A2,35-B3,35-D1,50-D3
CB3 CD2*	35-A2,35-B1,35-B3,50-D3
CB3 CLK	35-C1,35-C3,50-D3
CB3 CLKRUN*	35-B1,35-C3,50-D3
CB3 D14	35-C4,35-D1,50-D3
CB3 D2	35-B1,35-C4,50-D3
CB3 DEVSEL*	35-B3,35-C1,50-D3
CB3 FRAME*	35-B3,35-C1,50-D3

Signal Name	Sheet Number - Location
CB3 GNT*	35-B3,35-C1,50-D3
CB3 INT*	35-B3,35-C1,50-D3
CB3 IRDY*	35-B3,35-C1,50-D3
CB3 PAR	35-B3,35-C1,50-D3
CB3 PERR*	35-B3,35-C1,50-D3
CB3 REQ*	35-B1,35-B3,50-D3
CB3 RST*	35-A2,35-B1,35-C3,50-D3
CB3 SERR*	35-B1,35-B3,50-D3
CB3 SPKR	34-B4,37-A4,50-D3
CB3 STOP*	35-B3,35-C1,50-D3
CB3 STSCHG	35-B1,35-B3,50-C3
CB3 TRDY*	35-B3,35-C1,50-C3
CB3 VPPEN0*	35-A4,35-D4,50-C3
CB3 VPPEN1*	35-A4,35-D4,50-C3
CB3 VS1	35-B3,35-C1,50-C3
CB3 VS2	35-B1,35-B3,50-C3
CDD5 A0	28-B2,39-C4
CDD5 A1	28-B2,39-C4
CDD5 A2	28-B2,39-C3
CDD5 COM	37-B4,39-D3,39-D4
CDD5 CS1*	28-B2,39-C4
CDD5 CS3*	28-B2,39-C3
CDD5 D(14)	28-B2,39-C3
CDD5 D(5)	28-B2,39-C4
CDD5 D(8)	28-B2,39-C3
CDD5 D(0)	28-B2,39-C4
CDD5 D(9)	28-B2,39-C3
CDD5 D(6)	28-B2,39-C4
CDD5 D(12)	28-B2,39-C3
CDD5 D(13)	28-B2,39-C3
CDD5 D(2)	28-B2,39-C4
CDD5 D(4)	28-B2,39-C4
CDD5 D(15)	28-B2,39-C3
CDD5 D(7)	28-B1,28-B2,39-C4
CDD5 D(11)	28-B2,39-C3
CDD5 D(3)	28-B2,39-C4
CDD5 D(10)	28-B2,39-C3

Signal Name	Sheet Number - Location
CDD5 D(1)	28-B2,39-C4
CDD5 D(15:8)	39-C3
CDD5 D(7:0)	39-C4
CDD5 D(15:0)	28-B2
CDD5 DACK*	28-B2,39-C3
CDD5 DREQ	28-B2,39-C3
CDD5 IOR*	28-B2,39-C3
CDD5 IORDY	28-B2,39-C4
CDD5 IOW*	28-B2,39-C4
CDD5 IRQ	28-B1,28-B2,39-C4
CDD5 L	37-B4,39-D4
CDD5 R	37-B4,39-D3
CHARGER VDC	44-B4,44-D1,50-C3
CHP2 SUSSTAT*	12-B4,28-D1,28-D2
CHP3 1394 ROMW*	28-A4,34-B2
CHP3 ADAPTERIN*	42-A1,42-A2,49-C4
CHP3 ADSEL	41-C2,42-A1,44-B1,49-B4, 50-C3
CHP3 CMOSCLR	27-A1,28-A4
CHP3 DPRSLPVR	27-A4,46-B3,46-C4,46-D4, 50-C3
CHP3 NBPWRGD	12-B3,25-B2,45-B1,50-C3
CHP3 NBPWRGD	3.3V 45-A2,45-B1
CHP3 PATADET	28-C2,39-B4,50-C3
CHP3 PCICLKSTOP*	7-C4,27-B4,50-C3
CHP3 PME*	28-C1,28-C2,32-C2, 33-B2,34-C4,36-B4,50-C3
CHP3 RI*	28-C1,28-D2,50-C3
CHP3 RSMRST*	27-A3,28-B4,50-C3
CHP3 RTCIRQ*	28-C2,30-D4,50-C3
CHP3 SATADET	28-C2,39-B4,50-C3
CHP3 SBPWRGD	28-D2,45-A1,50-C3
CHP3 SERIRQ	27-A2,27-C1,34-B2,38-B3, 42-C2,50-C3
CHP3 SLPS3*	28-D1,28-D2,42-A2
CHP3 SLPS5*	28-C1,28-D2,42-A2,50-C3
CHP3 SPKR	28-A4,37-A4,50-C3

Signal Name	Sheet Number - Location
CHP3 SUSSTAT*	21-B4,21-C4,28-D1,38-A4,
	42-A2,50-C3
CLK0 HOST CPU	7-C1,9-D4
CLK0 HOST CPU*	7-C1,9-D4
CLK0 HOST NB	7-C1,15-C3
CLK0 HOST NB*	7-C1,15-C3
CLK1 27M VGA	21-B4,23-D1
CLK2 MEM0	13-B3,18-C4
CLK2 MEM0*	13-B3,18-C4
CLK2 MEM1	13-B3,18-C4
CLK2 MEM1*	13-B3,18-C4
CLK2 MEM2	13-B3,18-C4
CLK2 MEM2*	13-B3,18-C4
CLK2 MEM3	13-B3,18-C3
CLK2 MEM3*	13-B3,18-C3
CLK2 MEM4	13-B3,18-C3
CLK2 MEM4*	13-B3,18-C3
CLK2 MEM5	13-B3,18-C3
CLK2 MEM5*	13-B3,18-C3
CLK3 32K SB	28-A4,30-D4
CLK3 33M CB	27-D2,34-C4,34-C4
CLK3 33M FWH	27-D2,31-B4
CLK3 33M LAN	27-D2,36-A3,36-B4
CLK3 33M MICOM	27-D2,42-C2
CLK3 33M MIN	27-D2,32-B4,32-C4
CLK3 33M USB	27-D2,33-B4
CLK3 48M SB USB	7-D1,28-D4
CLK3 48M USB	7-D1,33-B1
CLK3 66M AGP	7-C1,21-D4
CLK3 66M NB	7-C1,15-B3
CLK3 66M SB	7-A4,7-C1,27-D4
CLK3 DDR NB	7-C1,15-B3
CLK3 OSC SB	7-D1,28-A4
CLK3 PCLKSIO	27-D2,38-A4
CLK3 SIO14	7-D1,38-A3
FAN3 FDBACK*	41-D4,42-B2,50-C3
FS0	7-A4,7-D1

Signal Name	Sheet Number - Location
FS1	7-A4,7-D1
FS2	7-A4,7-C1
FS4	7-A4,7-C1
FWH1 INIT*	27-B4,31-C3,50-C3
FWH3 WP TBL*	31-B4,42-B4
GFX3 THERM*	23-B2,42-B4
HDD5 A0	28-C2,39-C2,50-C3
HDD5 A1	28-C2,39-C2,50-C3
HDD5 A2	28-C2,39-C1,50-C3
HDD5 CS1*	28-C2,39-C2,50-B3
HDD5 CS3*	28-C2,39-C1,50-B3
HDD5 D(3)	28-C2,39-C2,50-B3
HDD5 D(9)	28-C2,39-D1,50-B3
HDD5 D(12)	28-C2,39-D1,50-B3
HDD5 D(11)	28-C2,39-D1,50-B3
HDD5 D(4)	28-C2,39-C2,50-B3
HDD5 D(15)	28-C2,39-D1,50-B3
HDD5 D(13)	28-C2,39-D1,50-B3
HDD5 D(6)	28-C2,39-C2,50-B3
HDD5 D(7)	28-B1,28-C2,39-C2,50-B3
HDD5 D(14)	28-C2,39-D1,50-B3
HDD5 D(5)	28-C2,39-C2,50-B3
HDD5 D(0)	28-C2,39-C2,50-B3
HDD5 D(10)	28-C2,39-D1,50-B3
HDD5 D(1)	28-C2,39-C2,50-B3
HDD5 D(2)	28-C2,39-C2,50-B3
HDD5 D(8)	28-C2,39-D1,50-B3
HDD5 D(7:0)	39-C2
HDD5 D(15:8)	39-D1
HDD5 D(15:0)	28-C2
HDD5 DACK*	28-C2,39-C2,50-B3
HDD5 DREQ*	28-C2,39-C2,50-B3
HDD5 IOR*	28-C2,39-C2,50-B3
HDD5 IORDY	28-C2,39-C2,50-B3
HDD5 IOW*	28-C2,39-C2,50-B3
HDD5 IRQ	28-B1,28-C2,39-C2,50-B3
HDD5 LED*	39-A4,39-C2,41-A3,50-B3

Signal Name	Sheet Number - Location
HOST1 A*(24)	8-C4,12-D3
HOST1 A*(15)	8-C4,12-D3
HOST1 A*(5)	8-C4,12-D3
HOST1 A*(6)	8-C4,12-D3
HOST1 A*(3)	8-C4,12-D3
HOST1 A*(12)	8-C4,12-D3
HOST1 A*(19)	8-C4,12-D3
HOST1 A*(20)	8-C4,12-D3
HOST1 A*(9)	8-C4,12-D3
HOST1 A*(14)	8-C4,12-D3
HOST1 A*(7)	8-C4,12-D3
HOST1 A*(16)	8-C4,12-D3
HOST1 A*(18)	8-C4,12-D3
HOST1 A*(29)	8-C4,12-D3
HOST1 A*(8)	8-C4,12-D3
HOST1 A*(11)	8-C4,12-D3
HOST1 A*(27)	8-C4,12-D3
HOST1 A*(31)	8-C4,12-D3
HOST1 A*(28)	8-C4,12-D3
HOST1 A*(17)	8-C4,12-D3
HOST1 A*(4)	8-C4,12-D3
HOST1 A*(26)	8-C4,12-D3
HOST1 A*(10)	8-C4,12-D3
HOST1 A*(23)	8-C4,12-D3
HOST1 A*(22)	8-C4,12-D3
HOST1 A*(13)	8-C4,12-D3
HOST1 A*(25)	8-C4,12-D3
HOST1 A*(30)	8-C4,12-D3
HOST1 A*(21)	8-C4,12-D3
HOST1 A*(31:3)	8-C4,12-D3
HOST1 A20M*	8-B3,10-B3,27-B4
HOST1 ADS*	8-C3,12-C3
HOST1 ADSTB0*	8-C4,12-C3
HOST1 ADSTB1*	8-B4,12-C3
HOST1 BNR*	8-C3,12-C3
HOST1 BPRI*	8-C3,12-C3
HOST1 CPUPWRGD	9-D4,10-B3,27-B4

Signal Name	Sheet Number - Location
HOST1 CPURST*	8-C3,12-B3
HOST1 D*(3)	8-C2,12-D2
HOST1 D*(35)	8-C1,12-D2
HOST1 D*(2)	8-C2,12-D2
HOST1 D*(21)	8-C2,12-D2
HOST1 D*(32)	8-C1,12-D2
HOST1 D*(27)	8-C2,12-D2
HOST1 D*(26)	8-C2,12-D2
HOST1 D*(11)	8-C2,12-D2
HOST1 D*(57)	8-C1,12-D2
HOST1 D*(53)	8-C1,12-D2
HOST1 D*(38)	8-C1,12-D2
HOST1 D*(25)	8-C2,12-D2
HOST1 D*(24)	8-C2,12-D2
HOST1 D*(28)	8-C2,12-D2
HOST1 D*(59)	8-C1,12-D2
HOST1 D*(46)	8-C1,12-D2
HOST1 D*(6)	8-C2,12-D2
HOST1 D*(42)	8-C1,12-D2
HOST1 D*(41)	8-C1,12-D2
HOST1 D*(40)	8-C1,12-D2
HOST1 D*(16)	8-C2,12-D2
HOST1 D*(55)	8-C1,12-D2
HOST1 D*(54)	8-C1,12-D2
HOST1 D*(39)	8-C1,12-D2
HOST1 D*(31)	8-C2,12-D2
HOST1 D*(10)	8-C2,12-D2
HOST1 D*(19)	8-C2,12-D2
HOST1 D*(50)	8-C1,12-D2
HOST1 D*(49)	8-C1,12-D2
HOST1 D*(34)	8-C1,12-D2
HOST1 D*(8)	8-C2,12-D2
HOST1 D*(7)	8-C2,12-D2
HOST1 D*(36)	8-C1,12-D2
HOST1 D*(4)	8-C2,12-D2
HOST1 D*(1)	8-C2,12-D2
HOST1 D*(5)	8-C2,12-D2

Signal Name	Sheet Number - Location
HOST1 D*(17)	8-C2,12-D2
HOST1 D*(58)	8-C1,12-D2
HOST1 D*(37)	8-C1,12-D2
HOST1 D*(63)	8-C1,12-D2
HOST1 D*(61)	8-C1,12-D2
HOST1 D*(47)	8-C1,12-D2
HOST1 D*(15)	8-C2,12-D2
HOST1 D*(22)	8-C2,12-D2
HOST1 D*(20)	8-C2,12-D2
HOST1 D*(62)	8-C1,12-D2
HOST1 D*(14)	8-C2,12-D2
HOST1 D*(44)	8-C1,12-D2
HOST1 D*(0)	8-C2,12-D2
HOST1 D*(43)	8-C1,12-D2
HOST1 D*(51)	8-C1,12-D2
HOST1 D*(56)	8-C1,12-D2
HOST1 D*(48)	8-C1,12-D2
HOST1 D*(45)	8-C1,12-D2
HOST1 D*(18)	8-C2,12-D2
HOST1 D*(29)	8-C2,12-D2
HOST1 D*(12)	8-C2,12-D2
HOST1 D*(60)	8-C1,12-D2
HOST1 D*(13)	8-C2,12-D2
HOST1 D*(52)	8-C1,12-D2
HOST1 D*(23)	8-C2,12-D2
HOST1 D*(33)	8-C1,12-D2
HOST1 D*(9)	8-C2,12-D2
HOST1 D*(30)	8-C2,12-D2
HOST1 D*(63:0)	12-D2
HOST1 D*(63:48)	8-C1
HOST1 D*(31:16)	8-C2
HOST1 D*(15:0)	8-C2
HOST1 D*(47:32)	8-C1
HOST1 DBI0*	8-C2,12-C2
HOST1 DBI1*	8-B2,12-C2
HOST1 DBI2*	8-C1,12-B2
HOST1 DBI3*	8-B1,12-A2

Signal Name	Sheet Number - Location
HOST1 DBSY*	8-C3,12-B3
HOST1 DEFER*	8-C3,12-B3
HOST1 DPSLP*	9-D4,11-?3
HOST1 DPWR*	9-D4,12-B3
HOST1 DRDY*	8-C3,12-B3
HOST1 DSTBN0*	8-C2,12-C2
HOST1 DSTBN1*	8-B2,12-C2
HOST1 DSTBN2*	8-C1,12-B2
HOST1 DSTBN3*	8-B1,12-A2
HOST1 DSTBP0*	8-C2,12-C2
HOST1 DSTBP1*	8-B2,12-C2
HOST1 DSTBP2*	8-C1,12-B2
HOST1 DSTBP3*	8-B1,12-A2
HOST1 FERR*	8-B3,11-?4,50-B3
HOST1 GTLREF0	9-A3,9-C2
HOST1 HIT*	8-C3,12-B3,50-B3
HOST1 HITM*	8-C3,12-B3,50-B3
HOST1 IGNNE*	8-B3,10-B3,27-B4,50-A3
HOST1 INIT*	8-C3,10-B3,27-B4,50-A3
HOST1 INTR	8-B3,10-B3,27-B4,50-A3
HOST1 LOCK*	8-C3,12-B3,50-A3
HOST1 NMI	8-B3,10-B3,27-B4,50-A3
HOST1 PSI*	9-B4,46-C4
HOST1 REQ*(4)	8-C4,12-C3
HOST1 REQ*(2)	8-C4,12-C3
HOST1 REQ*(1)	8-C4,12-C3
HOST1 REQ*(0)	8-C4,12-C3
HOST1 REQ*(3)	8-C4,12-C3
HOST1 REQ*(4:0)	8-C4,12-C3
HOST1 RS*(0)	8-B3,12-B3
HOST1 RS*(1)	8-B3,12-B3
HOST1 RS*(2)	8-B3,12-B3
HOST1 RS*(2:0)	8-B3,12-B3
HOST1 SLP*	9-D4,10-B3,27-B4,50-A3
HOST1 SMI*	8-B3,10-B3,27-B4,50-A3
HOST1 STPCLK*	8-B3,10-B3,27-A4,50-A3
HOST1 TCK	9-B2,10-B3,50-A3

Signal Name	Sheet Number - Location
HOST1 TDI	9-B2,10-B3,50-A3
HOST1 TDO	9-B2,10-B3,50-A3
HOST1 TMS	9-B2,10-B3,50-A3
HOST1 TRDY*	8-C3,12-B3,50-A3
HOST1 TRST*	9-B2,10-B3,50-A3
HOST2 THERMDA	9-C4,11-?4,50-D3
HOST2 THERMDC	9-C4,11-?4,50-D3
HOST3 CPUSTOP*	11-?4,15-B1,27-B4,46-C4
HOST3 CPUSTOP NB*	7-C4,15-B1,50-D3
HOST3 FERR*	11-?3,27-A4,50-D3
HOST3 VID(5)	9-C4,46-A2,46-B1,50-D3
HOST3 VID(2)	9-C4,46-B1,50-D3
HOST3 VID(0)	9-C4,46-B1,50-D3
HOST3 VID(3)	9-C4,46-B1,50-D3
HOST3 VID(4)	9-C4,46-B1,50-D3
HOST3 VID(1)	9-C4,46-B1,50-D3
HOST3 VID(5:0)	9-C4
HP5 LINE OUT L	37-C4,38-D2,50-D3
HP5 LINE OUT R	37-C4,38-D2,50-D3
HP DETECT	37-C2,37-C3,38-D2,50-D3
IDE3 RST*	27-B1,39-D2,39-D4
IMVP4 PWRGD	7-C4,28-A4,42-B2,45-B2, 46-D1
KBC3 A20G	28-D2,42-B2,42-C1,50-D3
KBC3 BKLTON	25-B2,42-C2,50-D3
KBC3 BRIT	25-C2,42-B2,50-D3
KBC3 CAPSLED*	41-B2,42-C4,50-D3
KBC3 CHGEN	42-C2,44-B4,50-D3
KBC3 CPURST*	28-D2,42-B2,42-C1,50-C3
KBC3 CPUVRON	42-B1,46-A4,50-C3
KBC3 DELAY PWRGD	42-C2,45-A2,50-C3
KBC3 EXTSMI*	28-D2,38-A3,42-C4,50-C3
KBC3 FANCTRL	41-C3,42-B2,50-C3
KBC3 IMVP4 PWRGD	42-B2,45-C2,50-C3
KBC3 IVTPWRON	25-D3,42-B4
KBC3 LBLED*	41-A4,42-C4,50-C3
KBC3 NUMLED*	41-B2,42-C4,50-C3

Signal Name	Sheet Number - Location
KBC3 PWRGD	34-C4,42-C4,50-C3
KBC3 PWRON	34-D2,42-C4,43-B4, 43-C4,45-C1,45-D4, 48-A3,48-B3,49-A4,49-B1, 50-C3
KBC3 PWRON*	45-C2,45-C4,45-D4
KBC3 PWRSW*	41-C2,42-B2,42-D1, 42-D4,50-C3,51-D3
KBC3 PWRSW SB*	28-D2,42-B2,42-C1,50-C3
KBC3 QS*	42-C2,44-B4,50-C3
KBC3 RSMRST*	27-A4,42-C2,50-C3
KBC3 RST*	42-D1,42-D4,45-B4,50-C3
KBC3 RUNSCI*	28-C2,42-C4,50-C3
KBC3 SCL	42-A2,42-C1,44-C1,50-C3
KBC3 SCLED*	41-A2,42-C4,50-C3
KBC3 SDA	42-A2,42-C1,44-C1,50-C3
KBC3 SPKMUTE	37-B2,42-B2,50-C3
KBC3 SUSPWR	42-B2,43-C1,43-D1,45-B3, 48-C4,49-B4
KBC3 THERM*	28-D2,42-A2
KBC3 THERM SCL	11-?3,42-A2,50-C3
KBC3 THERM SDA	11-?3,42-C2,50-C3
KBC3 TPAD*	41-B4,42-C4,50-C3
KBC3 VGAPWRON	42-C4,43-A4,48-A3
KBC3 VRON	42-C1,42-C2,46-A4, 47-C2,47-C4,50-C3
KBC3 WAKESCI*	28-C1,28-C2,42-B2,50-C3
KBC3 WLAN*	32-C4,41-B4,42-A2,50-C3
KBC5 KSI(3)	38-D4,42-B4,50-B3
KBC5 KSI(5)	38-D4,42-B4,50-B3
KBC5 KSI(2)	38-D4,42-B4,50-B3
KBC5 KSI(0)	38-D4,42-B4,50-C3
KBC5 KSI(7)	38-D4,42-B4,50-B3
KBC5 KSI(4)	38-D4,42-B4,50-B3
KBC5 KSI(6)	38-D4,42-B4,50-B3
KBC5 KSI(1)	38-D4,42-B4,50-C3
KBC5 KSI(7:0)	38-D4,42-B4

Signal Name	Sheet Number - Location
KBC5 KSO(5)	38-D4,42-B4,50-B3
KBC5 KSO(1)	38-D4,42-B4,50-B3
KBC5 KSO(2)	38-D4,42-B4,50-B3
KBC5 KSO(10)	38-D4,42-B4,50-B3
KBC5 KSO(15)	38-D4,42-B4,50-B3
KBC5 KSO(11)	38-D4,42-B4,50-B3
KBC5 KSO(9)	38-D4,42-B4,50-B3
KBC5 KSO(4)	38-D4,42-B4,50-B3
KBC5 KSO(13)	38-D4,42-B4,50-B3
KBC5 KSO(6)	38-D4,42-B4,50-B3
KBC5 KSO(7)	38-D4,42-B4,50-B3
KBC5 KSO(14)	38-D4,42-B4,50-B3
KBC5 KSO(0)	38-D4,42-B4,50-B3
KBC5 KSO(3)	38-D4,42-B4,50-B3
KBC5 KSO(8)	38-D4,42-B4,50-B3
KBC5 KSO(12)	38-D4,42-B4,50-B3
KBC5 KSO(15:0)	38-D4,42-B4
KBC5 TCLK	38-B2,42-C4
KBC5 TDATA	38-B2,42-C4
LAN3 EECK	28-B4,30-B4,50-B3
LAN3 EEDO	28-B4,30-D4,50-B3
LAN3 MDCK	28-C4,30-B4,50-B3
LAN3 PHYPD	28-B4,30-B4,50-B3
LAN3 TXD0	28-B4,30-D4,50-B3
LAN3 TXD1	28-B4,30-D4,50-B3
LAN3 TXD2	28-B4,30-D4,50-A3
LAN3 TXD3	28-B4,30-D4,50-A3
LAN3 TXEN	28-B4,30-D4,50-A3
LCD3 BKLTON	25-B1,25-D4,50-A3
LCD3 BRIT	25-C1,25-D4,50-A3
LCD3 TYPE	25-C4,42-B4
LED3 CHARGE	41-C2,42-C2,50-A3
LFM*	46-A2,46-D4
LID3 SWITCH*	41-B3,42-B2,50-A3
LPC3 AD(2)	27-B2,31-A3,31-B3,38-B4, 42-C2,50-A3
LPC3 AD(3)	27-B2,31-A3,31-B3,38-B4, 42-C2,50-A3
LPC3 AD(1)	27-B2,31-A3,31-B3,38-B4, 42-C2,50-A3
LPC3 AD(0)	27-B2,31-A3,31-B3,38-B4, 42-C2,50-A3
LPC3 AD(3:0)	27-B2,31-A3,31-B3,38-B4, 42-C2
LPC3 FRAME*	27-B2,31-B3,38-B4,42-C2, 50-A3
LPC3 LDRQ0*	27-B2,38-B3
LPC3 RST*	27-C1,31-B4,42-C2
LPC3 SMI*	28-C1,28-D2,50-A3
LUSB	33-B4,42-D2
LVDS1 L0N	15-C2,21-C1,25-C4
LVDS1 L0P	15-C2,21-C1,25-C4
LVDS1 L1N	15-C2,21-C1,25-C4
LVDS1 L1P	15-C2,21-C1,25-C4
LVDS1 L2N	15-C2,21-B1,25-C4
LVDS1 L2P	15-C2,21-B1,25-C4
LVDS1 LCLKN	15-C2,21-B1,25-C4
LVDS1 LCLKP	15-C2,21-B1,25-C4
LVDS1 SSIN	14-B1,14-D1
LVDS1 SSOUT	14-B2,14-D1
LVDS1 U0N	15-D2,21-B1,25-D4
LVDS1 U0P	15-D2,21-B1,25-D4
LVDS1 U1N	15-D2,21-B1,25-D4
LVDS1 U1P	15-D2,21-B1,25-C4
LVDS1 U2N	15-D2,21-B1,25-C4
LVDS1 U2P	15-D2,21-B1,25-C4
LVDS1 UCLKN	15-D2,21-B1,25-C4
LVDS1 UCLKP	15-C2,21-B1,25-C4
MDC3 AUDIN	37-A4,39-B2,50-A3
MEM2 A(8)	13-D3,18-D4,20-C4
MEM2 A(2)	13-D3,18-D4,20-C4
MEM2 A(11)	13-D3,18-D4,20-C4
MEM2 A(7)	13-D3,18-D4,20-C4
MEM2 A(5)	13-D3,18-D4,20-C4

Signal Name	Sheet Number - Location
MEM2 A(1)	13-D3,18-D4,20-C4
MEM2 A(6)	13-D3,18-D4,20-C4
MEM2 A(13)	13-D3,18-D4,20-C4
MEM2 A(9)	13-D3,18-D4,20-C4
MEM2 A(15)	13-D3,18-A2,18-D4,20-C4
MEM2 A(10)	13-D3,18-D4,20-C4
MEM2 A(4)	13-D3,18-D4,20-C4
MEM2 A(14)	13-D3,18-D4,20-C4
MEM2 A(3)	13-D3,18-D4,20-C4
MEM2 A(12)	13-D3,18-D4,20-C4
MEM2 A(0)	13-D3,18-D4,20-C4
MEM2 A(15:0)	13-D3,18-D4,20-C4
MEM2 CAS*	13-C3,18-B4,20-C2
MEM2 CKE0	13-B3,18-C4,20-C2
MEM2 CKE1	13-B3,18-B4,20-C2
MEM2 CKE2	13-B3,18-C3,20-C2
MEM2 CKE3	13-B3,18-B3,20-C2
MEM2 CS0*	13-B3,18-B4,20-C2
MEM2 CS1*	13-B3,18-B4,20-C2
MEM2 CS2*	13-B3,18-B3,20-C2
MEM2 CS3*	13-B3,18-B3,20-B2
MEM2 D(25)	13-D2,18-D2,18-D3,19-D4
MEM2 D(45)	13-D2,18-D2,18-D3,19-D4
MEM2 D(40)	13-D2,18-D2,18-D3,19-D4
MEM2 D(62)	13-D2,18-D2,18-D3,19-D4
MEM2 D(5)	13-D2,18-D2,18-D3,19-D4
MEM2 D(3)	13-D2,18-D2,18-D3,19-D4
MEM2 D(24)	13-D2,18-D2,18-D3,19-D4
MEM2 D(4)	13-D2,18-D2,18-D3,19-D4
MEM2 D(16)	13-D2,18-D2,18-D3,19-D4
MEM2 D(2)	13-D2,18-D2,18-D3,19-D4
MEM2 D(51)	13-D2,18-D2,18-D3,19-D4
MEM2 D(18)	13-D2,18-D2,18-D3,19-D4
MEM2 D(8)	13-D2,18-D2,18-D3,19-D4
MEM2 D(6)	13-D2,18-D2,18-D3,19-D4
MEM2 D(37)	13-D2,18-D2,18-D3,19-D4
MEM2 D(35)	13-D2,18-D2,18-D3,19-D4

Signal Name	Sheet Number - Location
MEM2 D(58)	13-D2,18-D2,18-D3,19-D4
MEM2 D(27)	13-D2,18-D2,18-D3,19-D4
MEM2 D(13)	13-D2,18-D2,18-D3,19-D4
MEM2 D(29)	13-D2,18-D2,18-D3,19-D4
MEM2 D(11)	13-D2,18-D2,18-D3,19-D4
MEM2 D(14)	13-D2,18-D2,18-D3,19-D4
MEM2 D(43)	13-D2,18-D2,18-D3,19-D4
MEM2 D(50)	13-D2,18-D2,18-D3,19-D4
MEM2 D(28)	13-D2,18-D2,18-D3,19-D4
MEM2 D(38)	13-D2,18-D2,18-D3,19-D4
MEM2 D(36)	13-D2,18-D2,18-D3,19-D4
MEM2 D(63)	13-D2,18-D2,18-D3,19-D4
MEM2 D(41)	13-D2,18-D2,18-D3,19-D4
MEM2 D(1)	13-D2,18-D2,18-D3,19-D4
MEM2 D(20)	13-D2,18-D2,18-D3,19-D4
MEM2 D(34)	13-D2,18-D2,18-D3,19-D4
MEM2 D(49)	13-D2,18-D2,18-D3,19-D4
MEM2 D(21)	13-D2,18-D2,18-D3,19-D4
MEM2 D(44)	13-D2,18-D2,18-D3,19-D4
MEM2 D(32)	13-D2,18-D2,18-D3,19-D4
MEM2 D(42)	13-D2,18-D2,18-D3,19-D4
MEM2 D(30)	13-D2,18-D2,18-D3,19-D4
MEM2 D(55)	13-D2,18-D2,18-D3,19-D4
MEM2 D(59)	13-D2,18-D2,18-D3,19-D4
MEM2 D(17)	13-D2,18-D2,18-D3,19-D4
MEM2 D(61)	13-D2,18-D2,18-D3,19-D4
MEM2 D(47)	13-D2,18-D2,18-D3,19-D4
MEM2 D(26)	13-D2,18-D2,18-D3,19-D4
MEM2 D(54)	13-D2,18-D2,18-D3,19-D4
MEM2 D(23)	13-D2,18-D2,18-D3,19-D4
MEM2 D(52)	13-D2,18-D2,18-D3,19-D4
MEM2 D(19)	13-D2,18-D2,18-D3,19-D4
MEM2 D(57)	13-D2,18-D2,18-D3,19-D4
MEM2 D(53)	13-D2,18-D2,18-D3,19-D4
MEM2 D(39)	13-D2,18-D2,18-D3,19-D4
MEM2 D(60)	13-D2,18-D2,18-D3,19-D4
MEM2 D(46)	13-D2,18-D2,18-D3,19-D4

Signal Name	Sheet Number - Location
MEM2 D(9)	13-D2,18-D2,18-D3,19-D4
MEM2 D(22)	13-D2,18-D2,18-D3,19-D4
MEM2 D(7)	13-D2,18-D2,18-D3,19-D4
MEM2 D(56)	13-D2,18-D2,18-D3,19-D4
MEM2 D(48)	13-D2,18-D2,18-D3,19-D4
MEM2 D(15)	13-D2,18-D2,18-D3,19-D4
MEM2 D(33)	13-D2,18-D2,18-D3,19-D4
MEM2 D(31)	13-D2,18-D2,18-D3,19-D4
MEM2 D(12)	13-D2,18-D2,18-D3,19-D4
MEM2 D(10)	13-D2,18-D2,18-D3,19-D4
MEM2 D(0)	13-D2,18-D2,18-D3,19-D4
MEM2 D(63:0)	13-D2,18-D2,18-D3,19-D4
MEM2 DM(5)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(0)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(1)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(6)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(3)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(7)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(2)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(4)	13-C3,18-B3,18-B4,19-B2
MEM2 DM(7:0)	13-C3,18-B3,18-B4,19-B2
MEM2 DQS(1)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(5)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(3)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(6)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(0)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(4)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(2)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(7)	13-C3,18-B3,18-B4,19-C2
MEM2 DQS(7:0)	13-C3,18-B3,18-B4,19-C2
MEM2 RA(7)	18-D3,20-D3
MEM2 RA(2)	18-D3,20-D3
MEM2 RA(0)	18-D3,20-D3
MEM2 RA(3)	18-D3,20-D3
MEM2 RA(6)	18-D3,20-D3
MEM2 RA(12)	18-D3,20-D3
MEM2 RA(9)	18-D3,20-D3

Signal Name	Sheet Number - Location
MEM2 RA(13)	18-D3,20-D3
MEM2 RA(10)	18-D3,20-D3
MEM2 RA(1)	18-D3,20-D3
MEM2 RA(8)	18-D3,20-D3
MEM2 RA(5)	18-D3,20-D3
MEM2 RA(14)	18-D3,20-D3
MEM2 RA(4)	18-D3,20-D3
MEM2 RA(15)	18-A2,18-D3,20-D3
MEM2 RA(11)	18-D3,20-D3
MEM2 RA(15:0)	18-D3,20-D3
MEM2 RAS*	13-C3,18-B4,20-C2
MEM2 RCAS*	18-B3,20-D1
MEM2 RRAS*	18-B3,20-D1
MEM2 RWE*	18-B3,20-D1
MEM2 VREF	13-A1,18-B2,18-B2,43-C4
MEM2 WE*	13-C3,18-B4,20-C2
NB0 GTLVREF	12-B3,12-C1
PCI3 ACTREQ*	28-D1,28-D2,50-D2
PCI3 AD(27)	27-D2,30-B4,32-D4, 33-D4,34-D4,36-D4,50-C2
PCI3 AD(17)	27-D2,32-D4,33-D4, 34-D4,36-D4,50-D2
PCI3 AD(21)	27-D2,32-D4,33-D4, 34-D4,36-B4,36-D4,50-D2
PCI3 AD(28)	27-D2,30-B4,32-D4, 33-D4,34-D4,36-D4,50-C2
PCI3 AD(19)	27-D2,32-C2,32-D4, 33-D4,34-D4,36-D4,50-D2
PCI3 AD(4)	27-D2,32-D4,33-D4, 34-D4,36-D4,50-C2
PCI3 AD(6)	27-D2,32-D4,33-D4, 34-D4,36-D4,50-C2
PCI3 AD(22)	27-D2,32-D4,33-B4, 33-D4,34-D4,36-D4,50-D2
PCI3 AD(31)	27-D2,30-B4,32-D4, 33-D4,34-D4,36-D4,50-C2
PCI3 AD(30)	27-D2,30-B4,32-D4,

Signal Name	Sheet Number - Location
	33-D4,34-D4,36-D4,50-C2
PCI3 AD(20)	27-D2,32-D4,33-D4,
	34-B4,34-D4,36-D4,50-D2
PCI3 AD(18)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(26)	27-D2,30-B4,32-D4,
	33-D4,34-D4,36-D4,50-C2
PCI3 AD(10)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(15)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(29)	27-D2,30-B4,32-D4,
	33-D4,34-D4,36-D4,50-C2
PCI3 AD(25)	27-D2,30-B4,32-D4,
	33-D4,34-D4,36-D4,50-C2
PCI3 AD(7)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2
PCI3 AD(5)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2
PCI3 AD(13)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(23)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(11)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(1)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(3)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2
PCI3 AD(0)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(14)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(9)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2
PCI3 AD(24)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2

Signal Name	Sheet Number - Location
PCI3 AD(16)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(12)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(2)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-D2
PCI3 AD(8)	27-D2,32-D4,33-D4,
	34-D4,36-D4,50-C2
PCI3 AD(31:0)	27-D2,32-D4,33-D4,
	34-D4,36-D4
PCI3 CBE*(2)	27-C2,32-C4,33-B4,34-B4,
	36-B4,50-C2
PCI3 CBE*(0)	27-C2,32-B2,33-B4,34-B4,
	36-B4,50-C2
PCI3 CBE*(1)	27-C2,32-B4,33-B4,34-B4,
	36-B4,50-C2
PCI3 CBE*(3)	27-C2,32-C4,33-B4,34-B4,
	36-B4,50-C2
PCI3 CBE*(3:0)	27-C2,34-B4,36-B4
PCI3 CLKRUN*	27-B2,27-C1,32-B4,33-B2,
	34-C4,36-B4,38-A4,42-B2,
	50-C2
PCI3 DEVSEL*	27-C1,27-C2,32-B2,33-B2,
	34-B4,36-B4,50-C2
PCI3 FRAME*	27-C2,27-D1,32-B2,33-B2,
	34-B4,36-B4,50-C2
PCI3 GNT0*	27-B2,27-D1,32-C2,50-C2
PCI3 GNT1*	27-B2,27-D1,34-B4,50-C2
PCI3 GNT2*	27-B2,27-D1,36-B4,50-C2
PCI3 GNT3*	27-B2,33-B2
PCI3 INTB*	27-B4,27-D1,33-B2,34-B2,
	50-C2
PCI3 INTC*	27-B4,27-D1,32-C2,33-B2,
	36-B4
PCI3 INTD*	27-B4,27-D1,33-B2,50-C2
PCI3 IRDY*	27-B2,27-C1,32-B4,33-B2,
	34-B4,36-B4,50-B2

Signal Name	Sheet Number - Location
PCI3 PAR	27-B2,32-B2,33-B4,34-B4, 36-B4,50-B2
PCI3 PERR*	27-B2,27-C1,32-B4,33-B2, 34-B4,36-B4,50-B2
PCI3 REQ0*	27-B2,27-D1,32-C4,50-B2
PCI3 REQ1*	27-B2,27-D1,34-B4,50-B2
PCI3 REQ2*	27-B2,27-D1,36-B4,50-B2
PCI3 REQ3*	27-B2,27-D1,33-B2,50-B2
PCI3 REQ4*	27-B2,27-D1,50-B2
PCI3 ROMCS*	27-B2,27-C1,50-B2
PCI3 RST*	27-B1,28-B2,32-C2,33-B2, 34-C4,36-B4,38-B3
PCI3 RSTF*	27-B2,27-D2,50-B2
PCI3 SERR*	27-B2,27-C1,32-B4,33-B2, 34-B4,36-B4,50-B2
PCI3 STOP*	27-B2,27-C1,32-B2,33-B2, 34-B4,36-B4,50-B2
PCI3 TRDY*	27-B2,27-C1,32-B2,33-B2, 34-B4,36-B4,50-B2
S1+	46-B4,46-C4,46-D1,50-B2
S1-	46-C4,46-D1,50-B2
S2+	46-B1,46-B4,46-B4,50-B2
S2-	46-B1,46-B4,50-B2
SMB3 ALERT*	11-?3,28-C1,28-D2,50-B2
SMB3 CLK	7-D4,18-B3,18-B4,23-B1, 28-C2,28-D1
SMB3 DATA	7-D4,18-B3,18-B4,23-B1, 28-C2,28-D1
SYSTEM S	44-C2,49-D4
USB3 P0	33-C2,33-D2,40-C2
USB3 P0*	33-B4,33-C2,33-D2,40-C2
USB3 P1	33-C2,33-D2,40-C4

Signal Name	Sheet Number - Location
USB3 P1*	33-B4,33-C2,33-D2,40-C4
USB3 P2	33-C2,33-D2,40-B4
USB3 P2*	33-B2,33-B4,33-D2,40-B4
USB3 P3	33-C2,33-D2,40-B2
USB3 P3*	33-B2,33-B4,33-D2,40-B2
USB3 P4	33-C2,33-D2
USB3 P4*	33-B2,33-B4,33-D2
USB3 SMI	28-C2,28-D1,33-B2,50-C3
VBUSPWR	34-C2,34-D1
VDDC CNTL0	14-C1,47-A2,47-A3,50-B2
VDDC CNTL1	14-C1,47-A1,47-B3,50-B2
VGA3 BKLTON	14-D1,21-B1,25-B2,50-A2
VGA3 BLUE	15-C3,21-A1,26-C4,50-A2
VGA3 C	15-C2,21-B4,25-A4,50-A2
VGA3 COMP	15-B2,21-B4,25-A4
VGA3 DDCC	15-B2,21-A1,26-A4,50-A2
VGA3 DDCD	15-B2,21-A1,26-B4,50-A2
VGA3 GREEN	15-C3,21-A1,26-C4,50-A2
VGA3 HDTVDET*	25-A4,42-C4
VGA3 HSYNC	15-C3,21-A1,26-C4,50-A2
VGA3 LCDVDDON	14-D1,21-B1,25-C3,50-A2
VGA3 RED	15-C3,21-A1,26-D4,50-A2
VGA3 SSIN	21-B4,23-D1
VGA3 VSYNC	15-C3,21-A1,26-B4,50-A2
VGA3 Y	15-C2,21-B4,25-B4,50-A2
VOA-	46-B2,46-C4
VOS-	46-C1,46-C4,50-A2
VTTPWRGD	42-B1,46-D1,47-B2,47-D2, 50-A2
XTAL IN	21-B4,23-D3
XTAL OUT	21-B4,23-D3

8-2 SIO SUB BOARD

8-2-1 Schematic Diagrams

Table of Contents

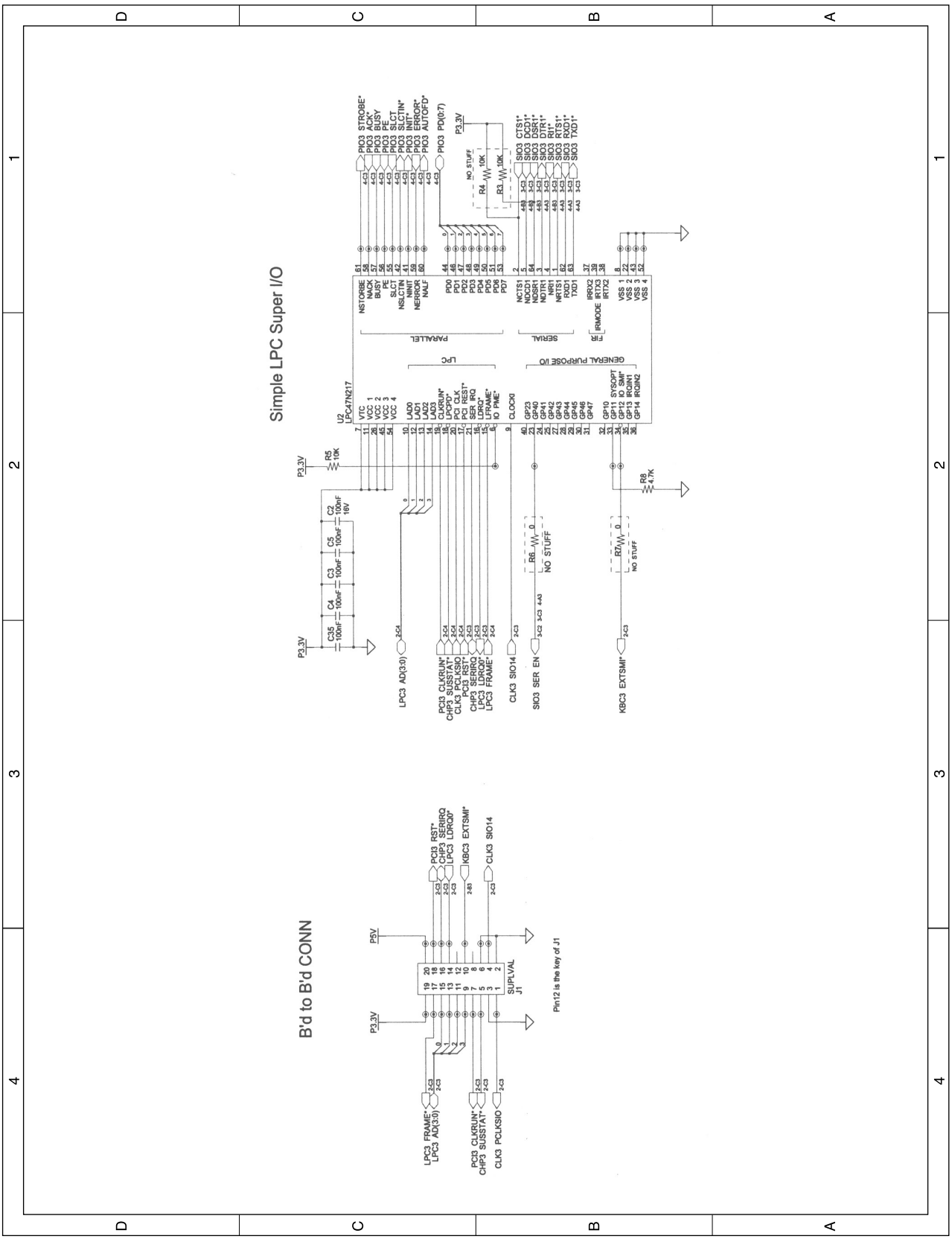
Oscar-G

CPU : Intel P-M
Chip Set : ATI RC300MD + IXP150
Remarks : Sub system for Super I/O

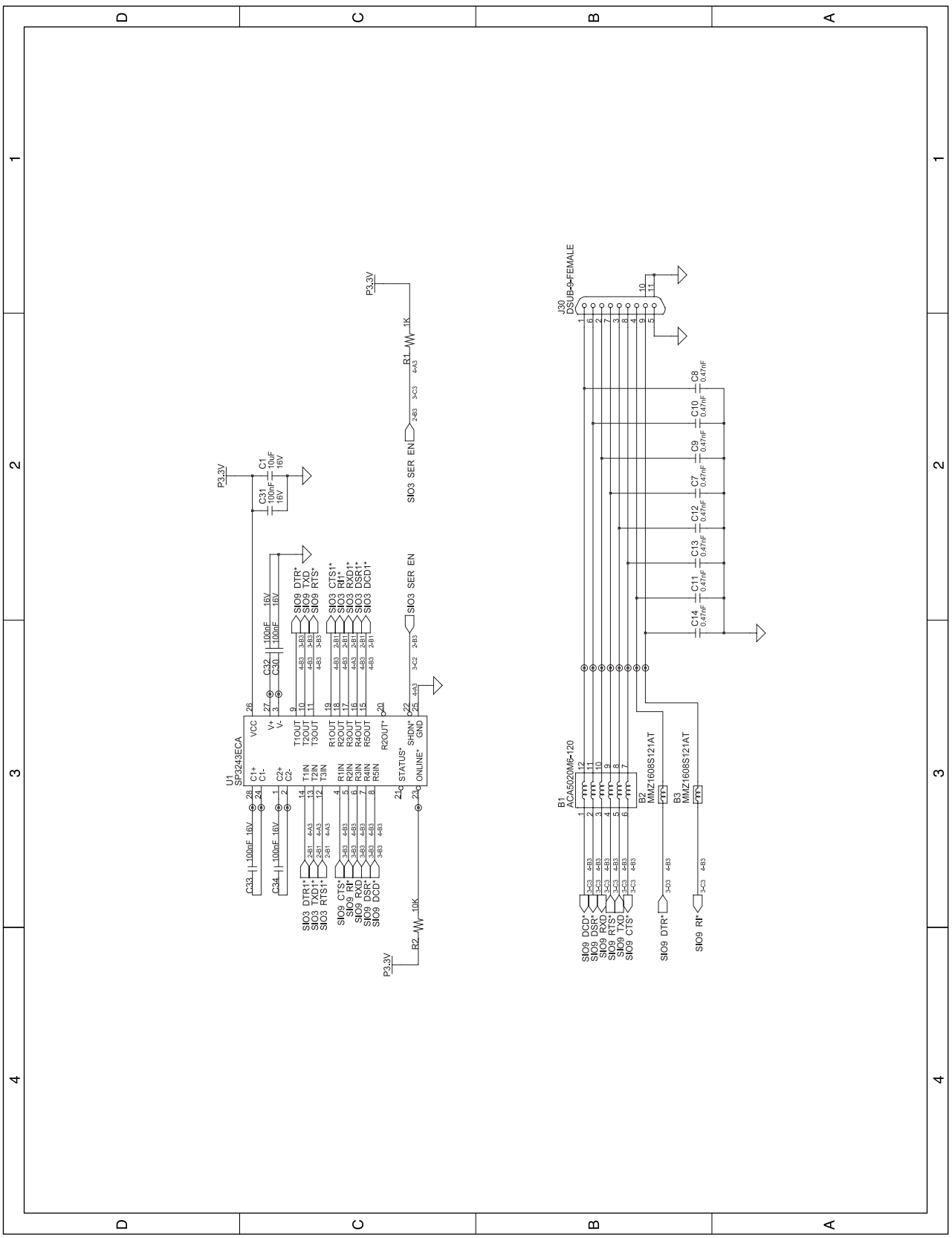
Model Name : SIO sub Board
PBA Name :
PCB Code : BA41-00477A
Dev. Step : MP
Revision : 1.0
T.R. Date : 2004-12-09

DRAW	CHECK	APPROVAL

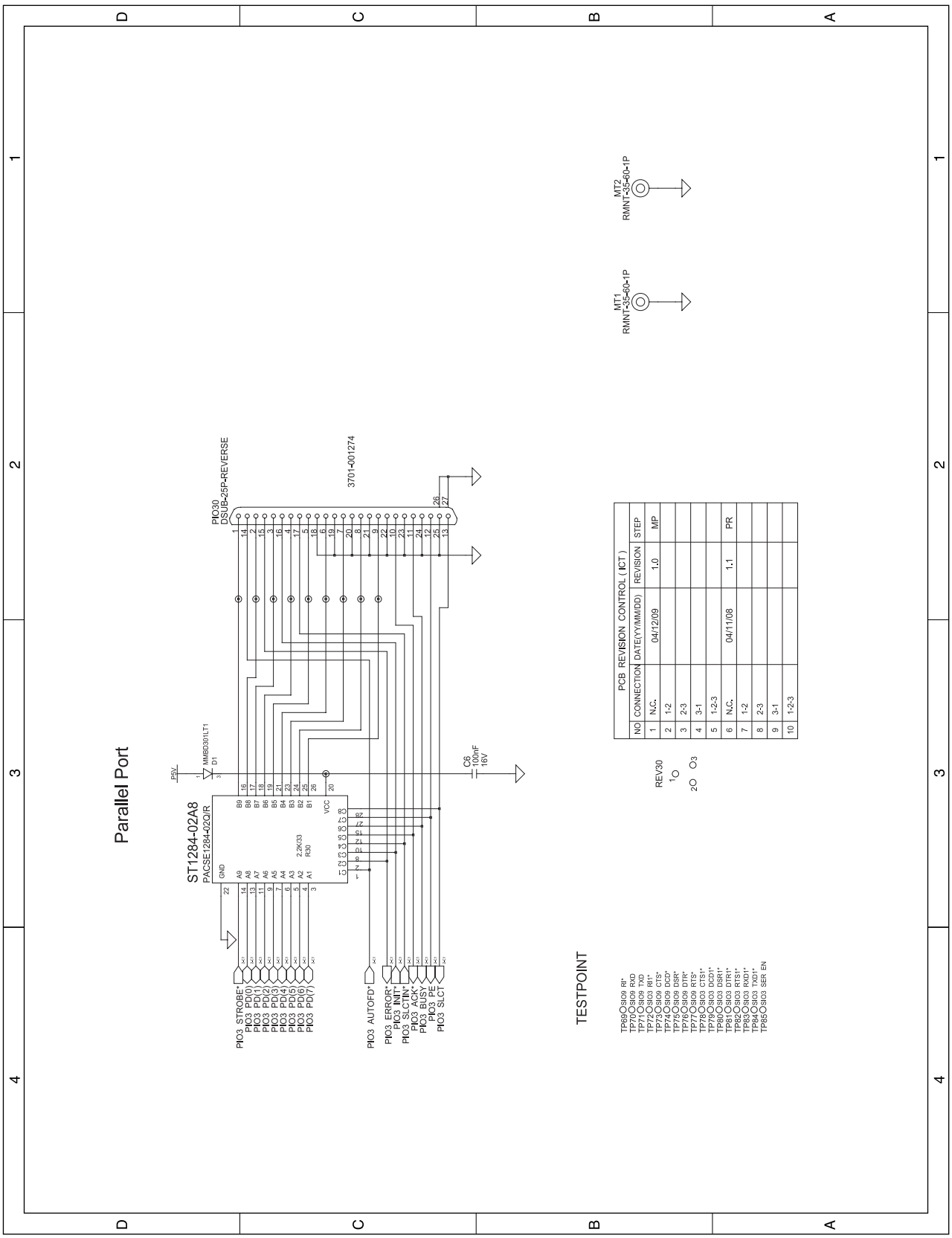
8-2-1(a) SIO SUB Board Schematic Sheet 2 of 4(B'd to B'd CONN, Super I/O)



8-2-1(b) SIO SUB Board Schematic Sheet 3 of 4(Serial Port)



8-2-1(c) SIO SUB Board Schematic Sheet 4 of 4(Parallel Port / Test Point)



8-2-2 Signal Location

Signal Name	Sheet Number - Location
CHP3 SERIRQ	2-C3,2-C3
CHP3 SUSSTAT*	2-C3,2-C4
CLK3 PCLKSIO	2-C3,2-C4
CLK3 SIO14	2-C3,2-C3
KBC3 EXTSMI*	2-B3,2-C3
LPC3 AD(1)	2-C3,2-C4
LPC3 AD(2)	2-C3,2-C4
LPC3 AD(0)	2-C3,2-C4
LPC3 AD(3)	2-C3,2-C4
LPC3 AD(3:0)	2-C3,2-C4
LPC3 FRAME*	2-C3,2-C4
LPC3 LDRQ0*	2-C3,2-C3
PCI3 CLKRUN*	2-C3,2-C4
PCI3 RST*	2-C3,2-C3
PIO3 ACK*	2-C1,4-C3
PIO3 AUTOFD*	2-C1,4-C3
PIO3 BUSY	2-C1,4-C3
PIO3 ERROR*	2-C1,4-C3
PIO3 INIT*	2-C1,4-C3
PIO3 PD(7)	2-C1,4-C3
PIO3 PD(3)	2-C1,4-C3
PIO3 PD(5)	2-C1,4-C3
PIO3 PD(4)	2-C1,4-C3
PIO3 PD(0)	2-C1,4-C3
PIO3 PD(1)	2-C1,4-C3

Signal Name	Sheet Number - Location
PIO3 PD(2)	2-C1,4-C3
PIO3 PD(6)	2-C1,4-C3
PIO3 PD(0:7)	2-C1
PIO3 PE	2-C1,4-C3
PIO3 SLCT	2-C1,4-C3
PIO3 SLCTIN*	2-C1,4-C3
PIO3 STROBE*	2-C1,4-C3
SIO3 CTS1*	2-B1,3-C3,4-B3
SIO3 DCD1*	2-B1,3-C3,4-B3
SIO3 DSR1*	2-B1,3-C3,4-B3
SIO3 DTR1*	2-B1,3-C3,4-A3
SIO3 RI1*	2-B1,3-C3,4-B3
SIO3 RTS1*	2-B1,3-C3,4-A3
SIO3 RXD1*	2-B1,3-C3,4-A3
SIO3 SER EN	2-B3,3-C2,3-C3,4-A3
SIO3 TXD1*	2-B1,3-C3,4-A3
SIO9 CTS*	3-B3,3-C3,4-B3
SIO9 DCD*	3-B3,3-C3,4-B3
SIO9 DSR*	3-B3,3-C3,4-B3
SIO9 DTR*	3-B3,3-D3,4-B3
SIO9 RI*	3-B3,3-C3,4-B3
SIO9 RTS*	3-B3,3-C3,4-B3
SIO9 RXD	3-B3,3-C3,4-B3
SIO9 TXD	3-B3,3-C3,4-B3