

- 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
- 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
- 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
D		263	PRODUCTION RELEASE	05/19/03	05/23/03

5/19/03 A RFA# 276257 ENGR RELEASE
5/23/03 B

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Q26B DVT MLB

GEN X REV B



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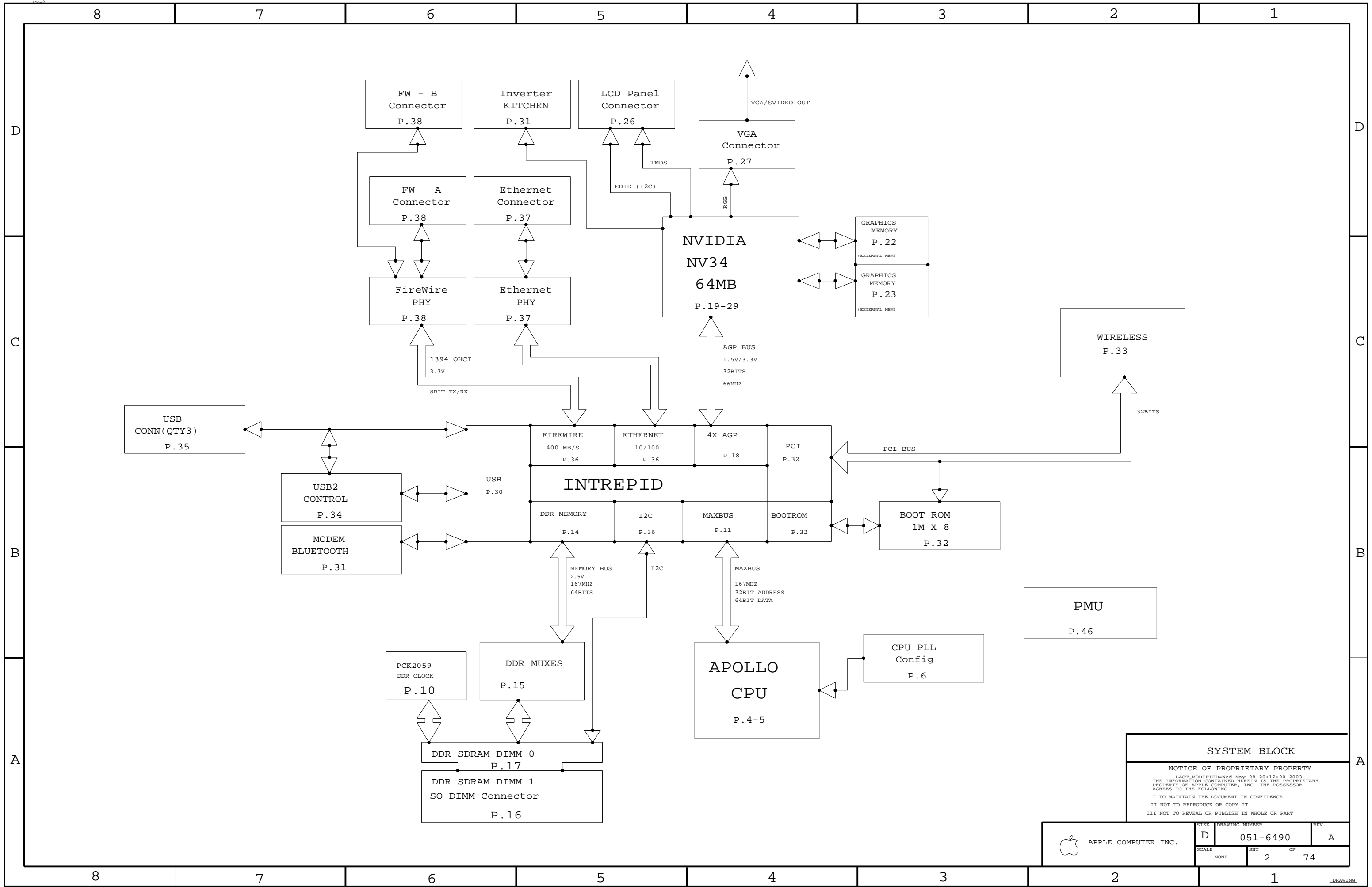
POWER RAIL DEFINITIONS

	RUN	SLEEP	SHUTDOWN
+2_5V_MAIN	ON	ON	OFF
+3V_MAIN	ON	ON	OFF
+5V_MAIN	ON	ON	OFF
+5V_SLEEP	ON	OFF	OFF
+12V_MAIN	ON	ON	ON
+12V_SLEEP	ON	OFF	OFF
FW_PWR	ON	ON	OFF
+1.8V_SLEEP	ON	OFF	OFF
+MAXBUS_SLEEP	ON	OFF	OFF

SCHEMATIC AND PCB SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
051-6490	1	SCHEM,MLB,Q26A,GENX	SCH1	CRITICAL	
820-1501	1	PCB,MLB,IMACG4	PCB1	CRITICAL	
825-2029	1	LBL,SER #,BARCODE	PCB1		
056-1158	1	DESIGN GUIDE,MCO,IMACG4	PCB1	CRITICAL	
057-0040	1	DFM,PNLZN DWG,MLB,Q26	PCB1	CRITICAL	
630-4745	1	630-4745,PCBA,H,Q26A,EEE PRR	HYNIX		OMIT
630-4746	1	630-4746,PCBA,S,Q26A,EEE PRS	SAMSUNG		OMIT

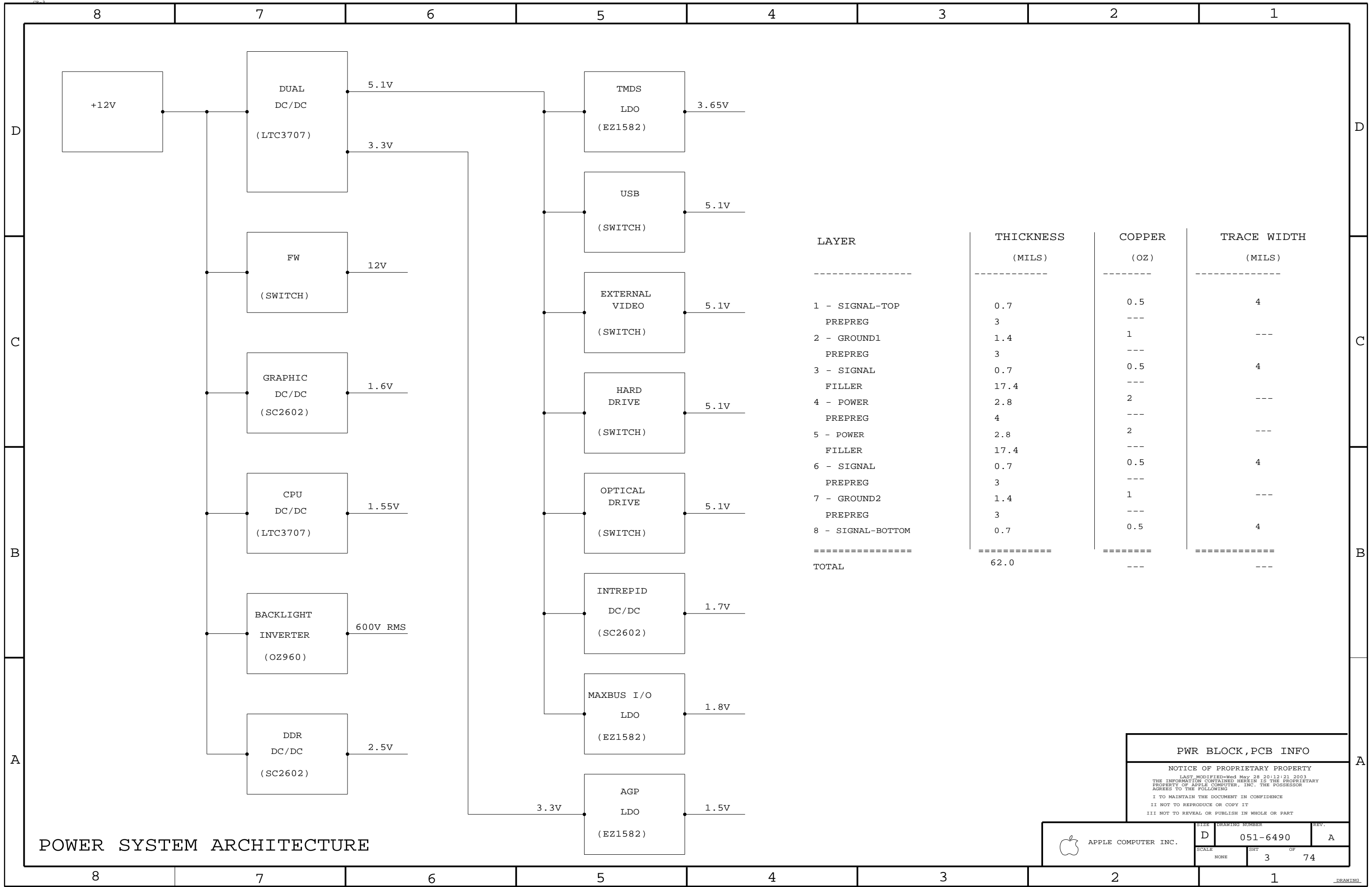
<p style="font-size: small;">DIMENSIONS ARE IN MILLIMETERS</p> <p>xx: _____</p> <p>x.xx: _____</p> <p>x.xxx: _____</p> <p>ANGLES: _____</p> <p style="font-size: x-small;">DO NOT SCALE DRAWING</p> <p style="text-align: center;"></p> <p style="font-size: x-small;">THIRD ANGLE PROJECTION</p>	<p>METRIC</p>	 Apple Computer Inc.
<p style="font-size: x-small;">NOTICE OF PROPRIETARY PROPERTY</p> <p style="font-size: x-small;">THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING</p> <p style="font-size: x-small;">I TO MAINTAIN THE DOCUMENT IN CONFIDENCE</p> <p style="font-size: x-small;">II NOT TO REPRODUCE OR COPY IT</p> <p style="font-size: x-small;">III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART</p>		<p>TITLE</p> <p style="font-size: large; font-weight: bold;">SCHEM,MLB,Q26,GEN X</p>
<p style="font-size: x-small;">MATERIAL/FINISH NOTED AS APPLICABLE</p> <p style="text-align: center;">D</p>		<p>DRAWING NUMBER</p> <p style="font-size: large; font-weight: bold;">051-6490</p> <p style="font-size: large; font-weight: bold;">REV. A</p> <p style="font-size: x-small;">SHT 1 OF 74</p>



SYSTEM BLOCK

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SCALE	NONE	SHT	OF
		2	74



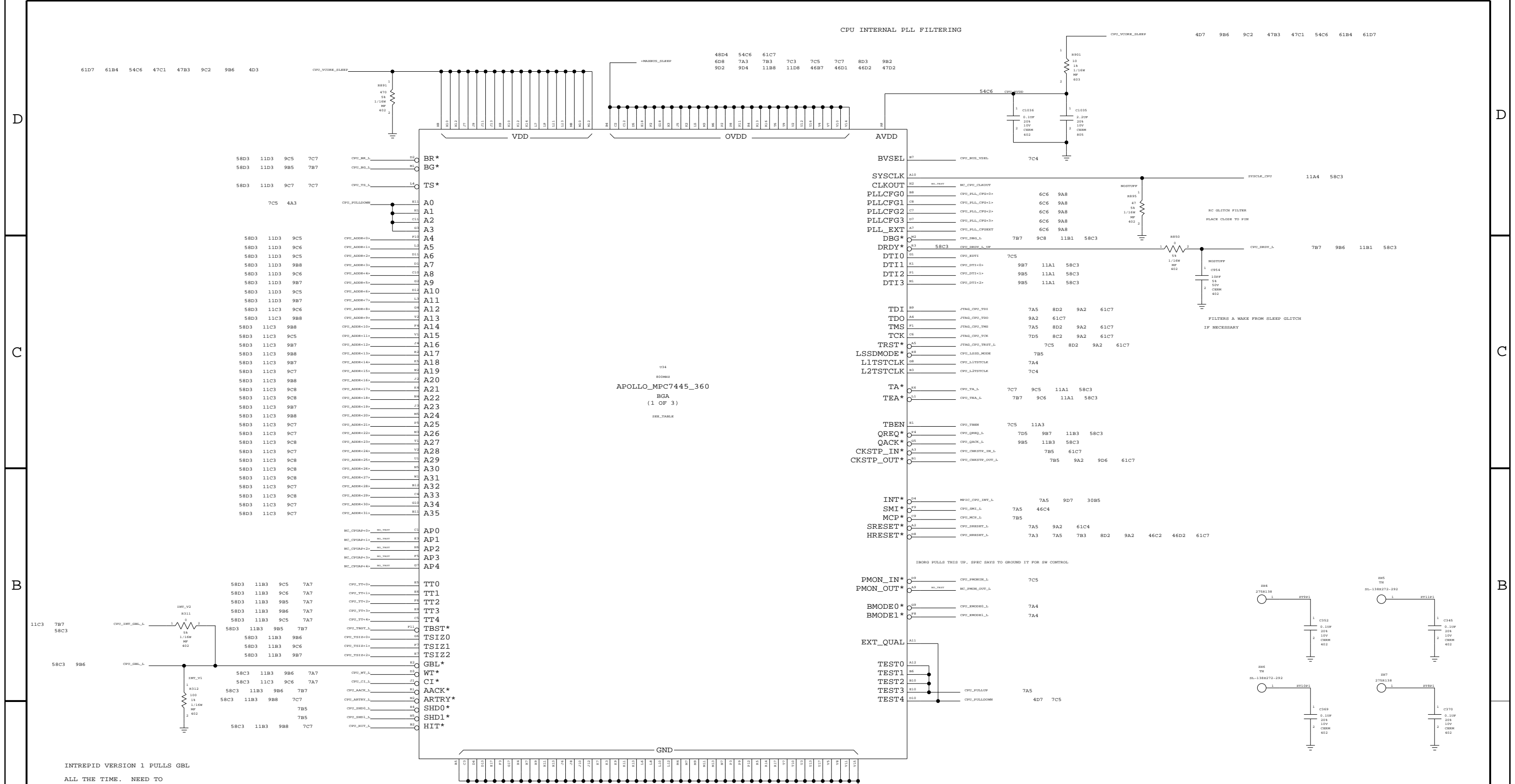
LAYER	THICKNESS (MILS)	COPPER (OZ)	TRACE WIDTH (MILS)
1 - SIGNAL-TOP	0.7	0.5	4
PREPREG	3	---	---
2 - GROUND1	1.4	1	---
PREPREG	3	---	---
3 - SIGNAL	0.7	0.5	4
FILLER	17.4	---	---
4 - POWER	2.8	2	---
PREPREG	4	---	---
5 - POWER	2.8	2	---
FILLER	17.4	---	---
6 - SIGNAL	0.7	0.5	4
PREPREG	3	---	---
7 - GROUND2	1.4	1	---
PREPREG	3	---	---
8 - SIGNAL-BOTTOM	0.7	0.5	4
=====	=====	=====	=====
TOTAL	62.0	---	---

POWER SYSTEM ARCHITECTURE

PWR BLOCK, PCB INFO

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NONE	3		74



INTREPID VERSION 1 PULLS GBL
ALL THE TIME. NEED TO
CUT THE TRACE AND YANK
DOWN HARD FOR SNOOPING.
FIXED IN INTREPID VERSION 2.

CPU MECHANICAL PARTS SUPPORT

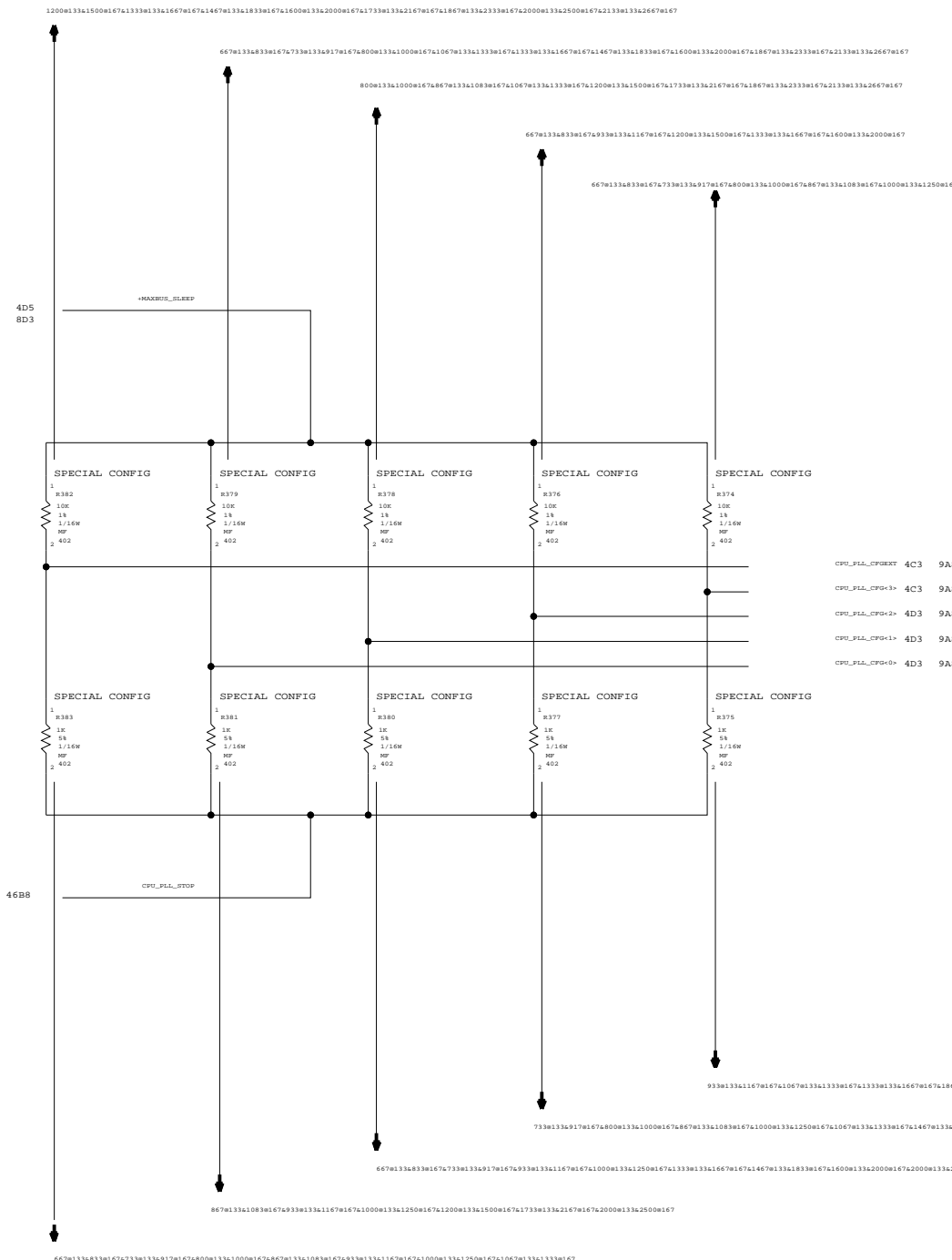
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
875-1475	1	PAD, THERMAL, CPU, U34	U341	CRITICAL	
870-1113	1	HEAT SINK, CPU, Q26, U34	U342	CRITICAL	DEV
870-1114	1	CLIP, HEAT SINK, CPU, Q26, U34	U343	CRITICAL	DEV
412-0042	1	SCREW, MACH, 3MM W, 8MM L, U34	U344	CRITICAL	DEV
835-0251	1	NUT, 3MM, U34	U345	CRITICAL	DEV

MPC7450 MAXBUS

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	SCALE NONE	SHT 4	OF 74	

BOMPTIONS FOR UPPER-SET OF RESISTORS



CPU FREQUENCY CONFIGURATION (SUPPORTED CPU & BUS SPEEDS)

MULTIPLIER (BUS-TO-CORE)	CORE FREQUENCY (AT BUS FREQUENCY) (MHZ)		CPU_PLL_CFG E 0123 HEX
	167MHZ	133MHZ	
5.0X	833	667	0 1011 0B
5.5X	917	733	0 1001 09
6.0X	1000	800	0 1101 0D
6.5X	1083	867	0 0101 05
7.0X	1167	933	0 0010 02
7.5X	1250	1000	0 0001 01
8.0X	1333	1067	0 1100 0C
9.0X	1500	1200	1 0111 17
10.0X	1667	1333	1 1010 1A
11.0X	1833	1467	1 1001 19
12.0X	2000	1600	1 1011 1B
13.0X	2167	1733	1 0101 15
14.0X	2333	1867	1 1100 1C
15.0X	2500	2000	1 0001 11
16.0X	2667	2133	1 1101 1D

BOMPTIONS FOR LOWER-SET OF RESISTORS

CPU FREQUENCY CONFIGURATION (OTHER POSSIBLE CPU & BUS SPEEDS)

MULTIPLIER (BUS-TO-CORE)	CORE FREQUENCY (AT BUS FREQUENCY) (MHZ)		CPU_PLL_CFG E 0123 HEX
	167MHZ	133MHZ	
0.0X	PLL OFF		0 1111 0F
1.0X	167 (1917)	133 (1533)	0 0000 00
PLL BYPASS		PLL BYPASS	0 0011 03
2.0X	333	267	0 0100 04
2.5X	417 (8.5X)	333 (1133)	0 0110 06
3.0X	500	400	0 1000 08
3.5X	583 (2250)	467 (1800)	0 1110 0E
4.0X	667	533	0 1010 0A
4.5X	750 (9.5X)	600 (1267)	0 0111 07
17.0X	2833	2267	1 0000 10
18.0X	3000	2400	1 0010 12
20.0X	3333	2667	1 0011 13
21.0X	3500	2800	1 0100 14
24.0X	4000	3200	1 0110 16
10.5X	1750	1400	1 1000 18
28.0X	4667	3733	1 1110 1E
12.5X	2083	1667	1 1111 1F

REV 3.0+ ONLY

CPU SPEED & BUS RATIO SUPPORT

THE CONFIGURATION RESISTORS BELOW ARE SELF CONFIGURING WHEN THE ENGINEER SELECTS THE APPROPRIATE CPU AND BUS SPEED BOM OPTION, THE APPROPRIATE RESISTORS ARE AUTOMATICALLY SELECTED

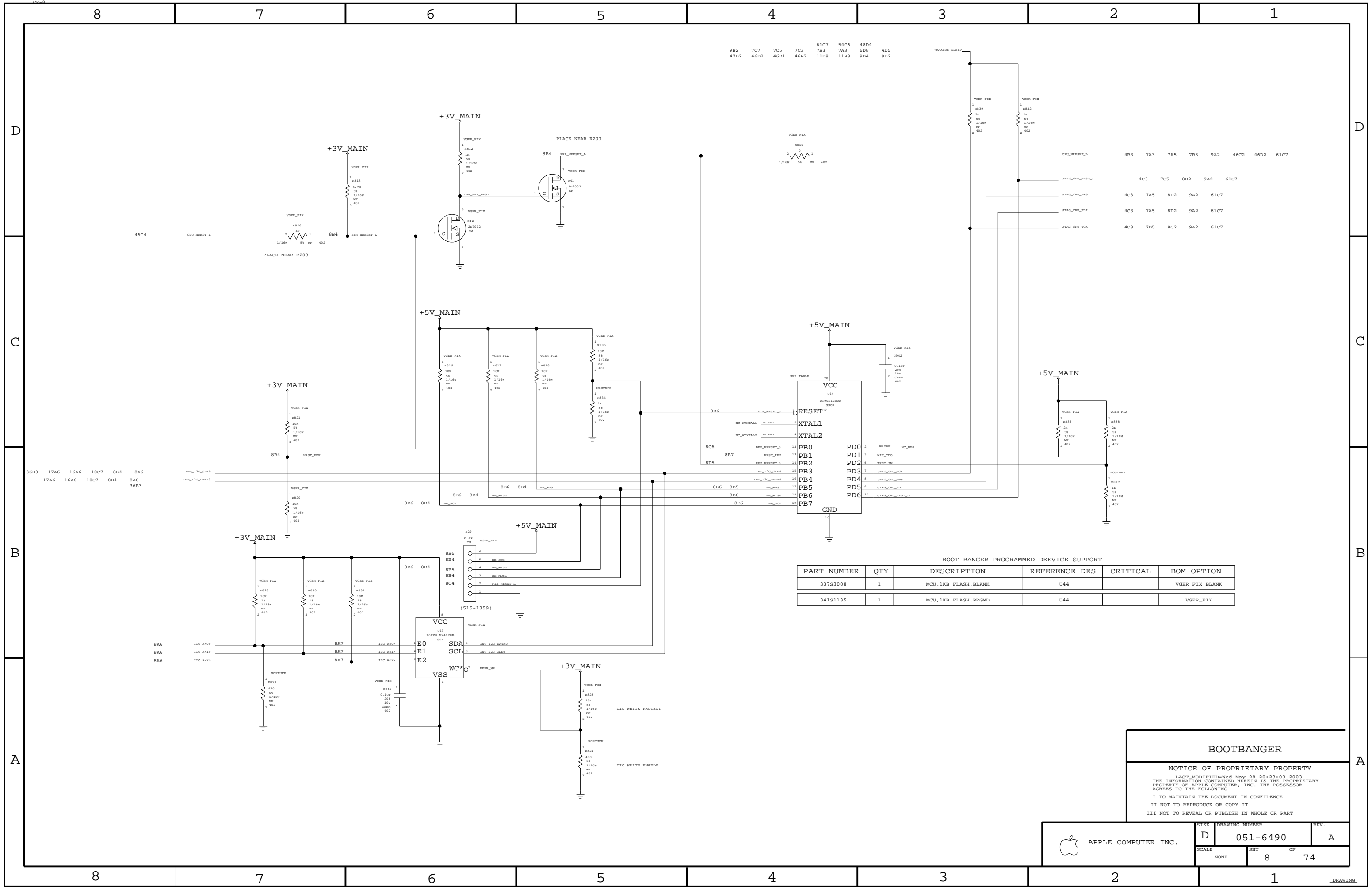
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
337S2674	1	IC, APOLLO, N5, V3. 3. 1. 0GHZ	U34		1000e133
116S1473	2	RES, 4.7K-OHM, 5%, 1/16W, 0402	R887, R368		1000e133
114S1004	1	RES, 10K-OHM, 1%, 1/16W, 0402	R866		1000e133
337S2769	1	IC, APOLLO6, N5, V3. 3. 1. 250GHZ	U34		1250e167
116S1473	3	RES, 4.7K-OHM, 5%, 1/16W, 0402	R887, R368, R357		1250e167

CPU BUS RATIO BITS

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SCALE NONE	SHT 6	OF 74



BOOT BANGER PROGRAMMED DEEVICE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
337S3008	1	MCU,1KB FLASH, BLANK	U44		VGER_FIX_BLANK
341S1135	1	MCU,1KB FLASH, PRGMD	U44		VGER_FIX

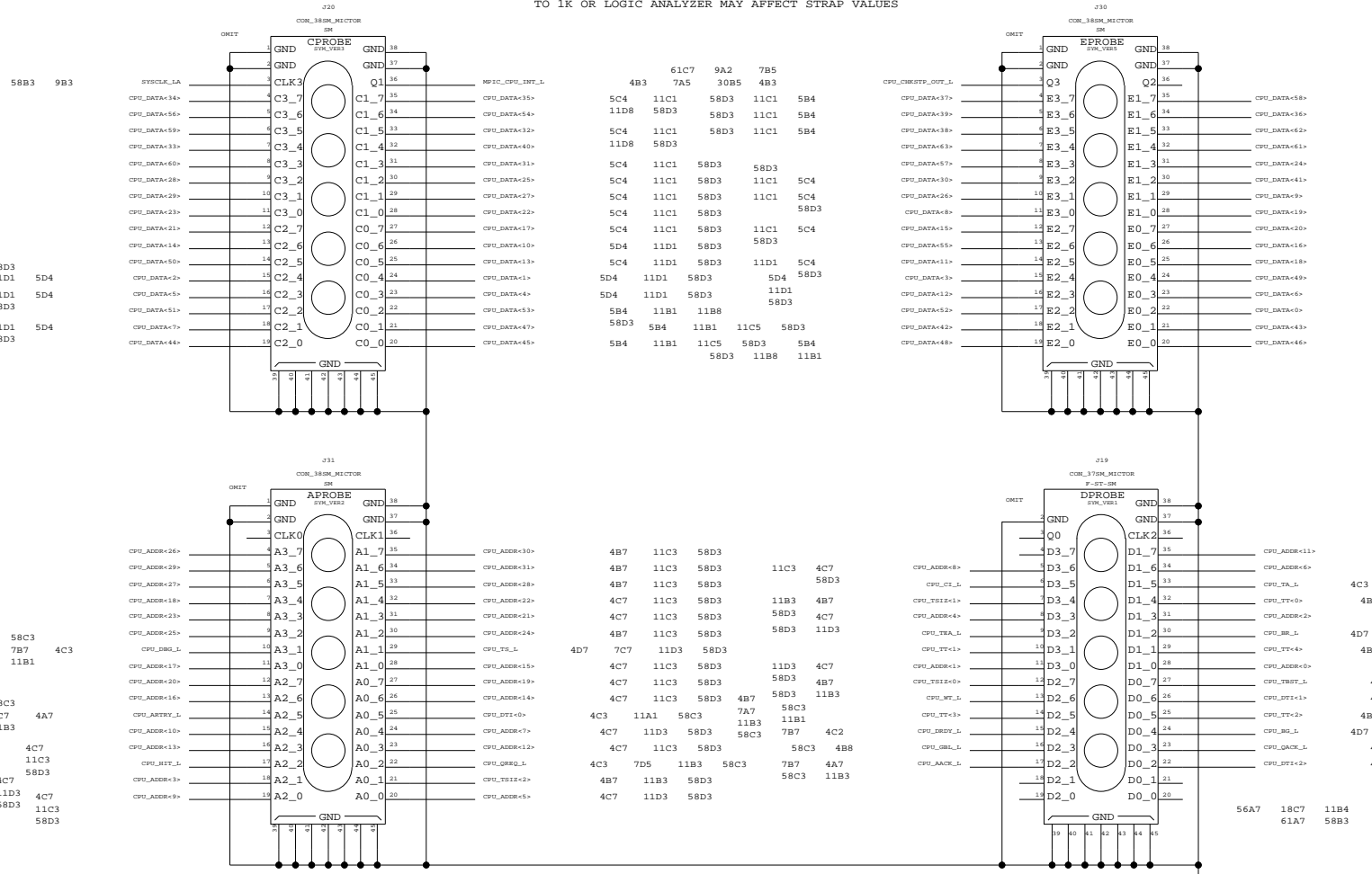
BOOTBANGER

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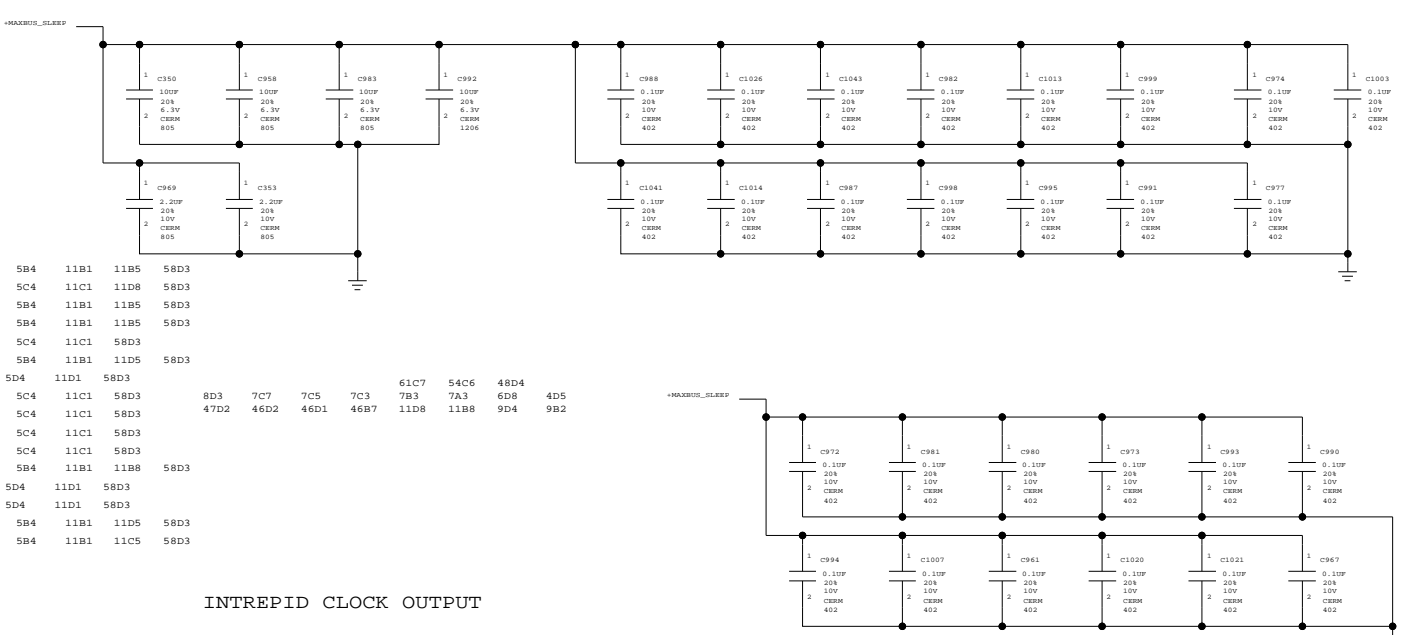
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SCALE	SHT	OF	
NONE	8	74	

MAXBUS LOGIC ANALYZER SUPPORT

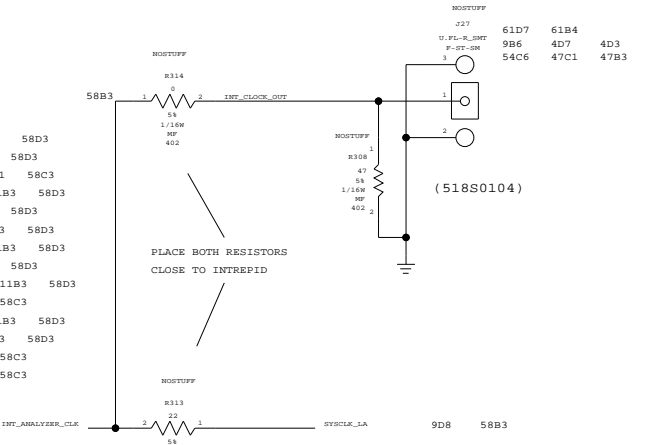
NOTE: INTREPID MAXBUS CONFIG STRAPS MUST DROP TO 1K OR LOGIC ANALYZER MAY AFFECT STRAP VALUES



(519-0698)

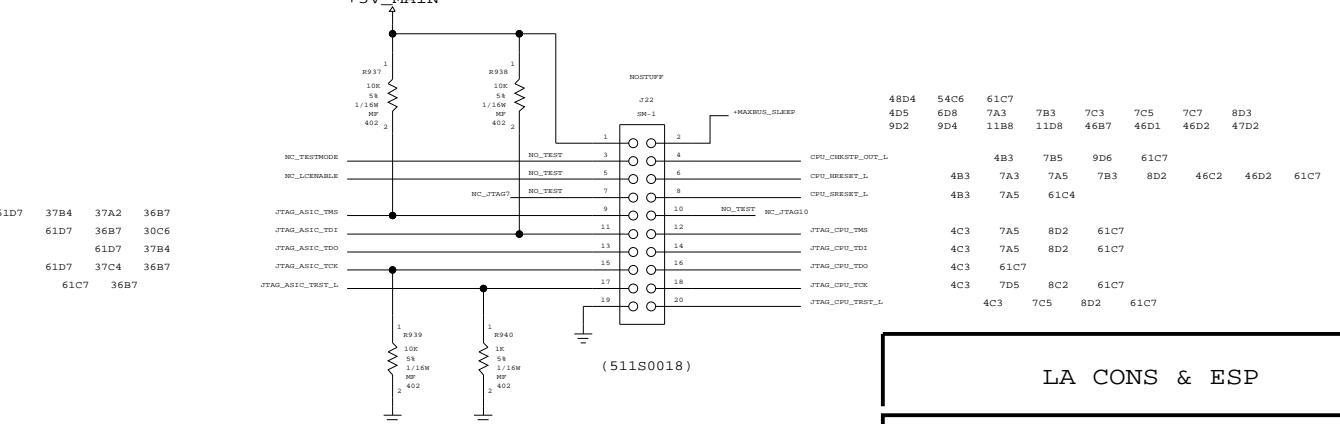


INTREPID CLOCK OUTPUT



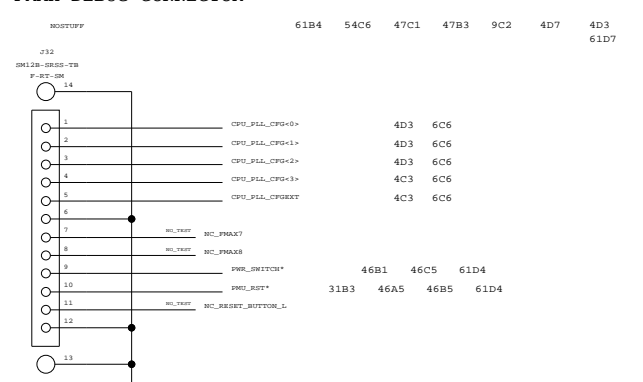
PULLDOWN ON TRST* STRONGER TO OVERCOME POSSIBLE LEAKAGE

+3V MAIN



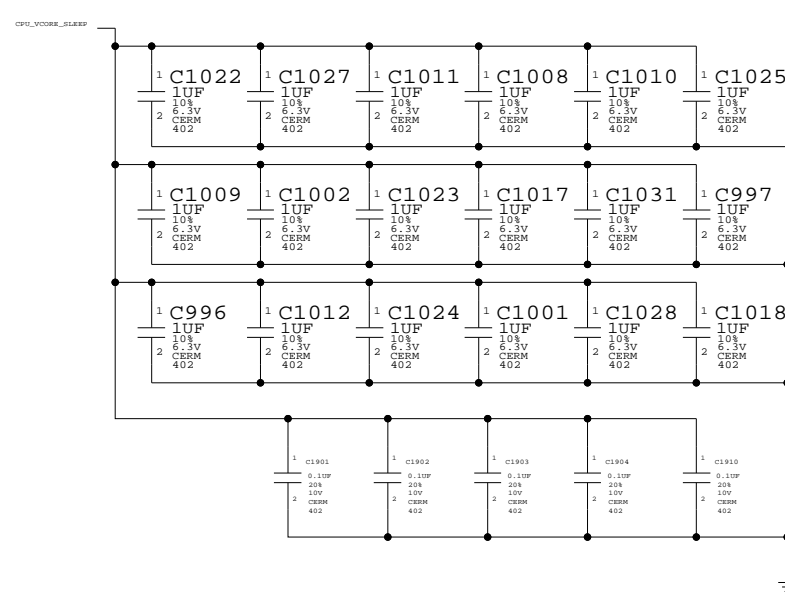
(511S0018)

FMAX DEBUG CONNECTOR



(518S0105)

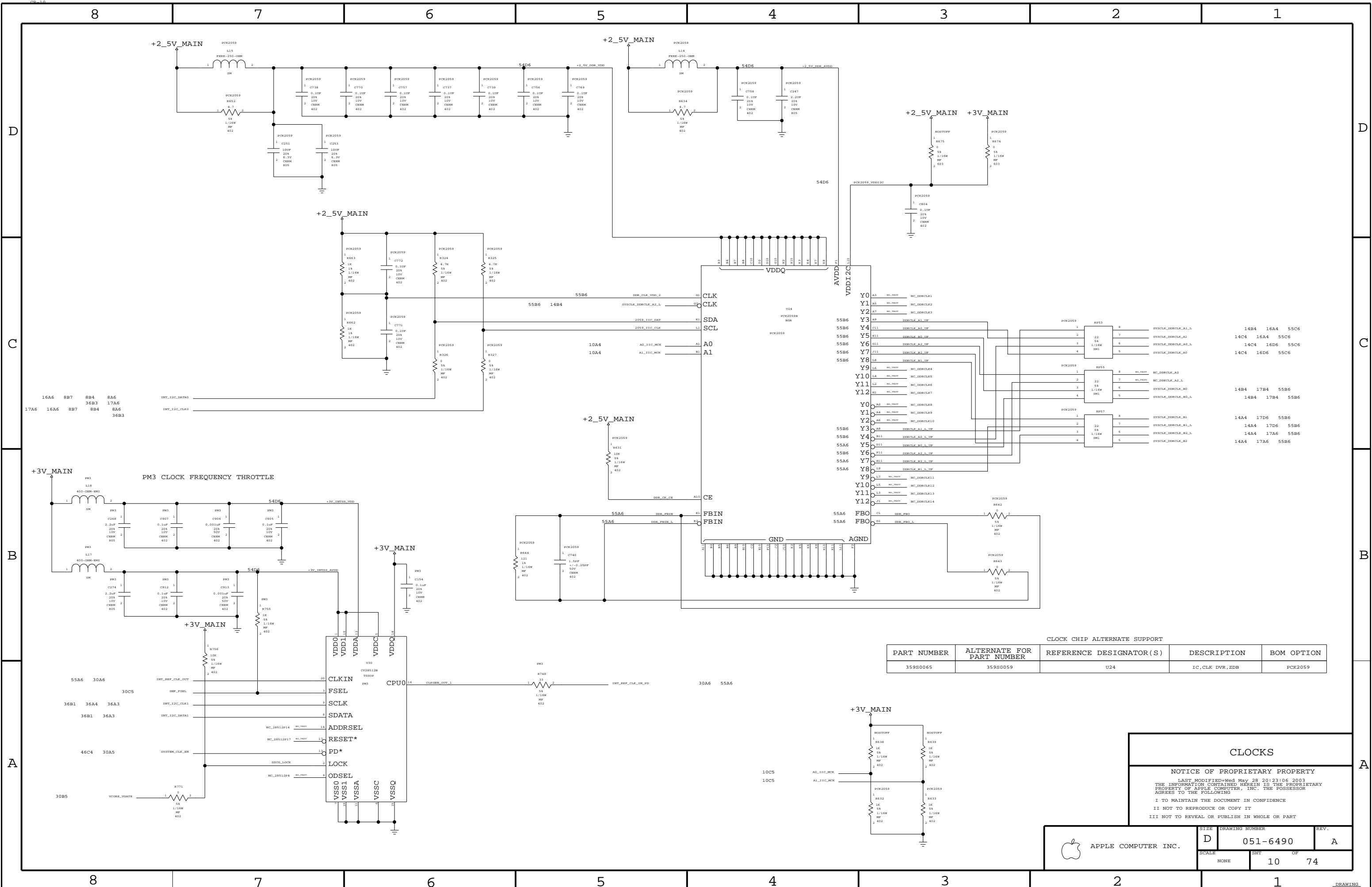
CPU CORE DECOUPLING



LA CONS & ESP

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NONE	9	74	

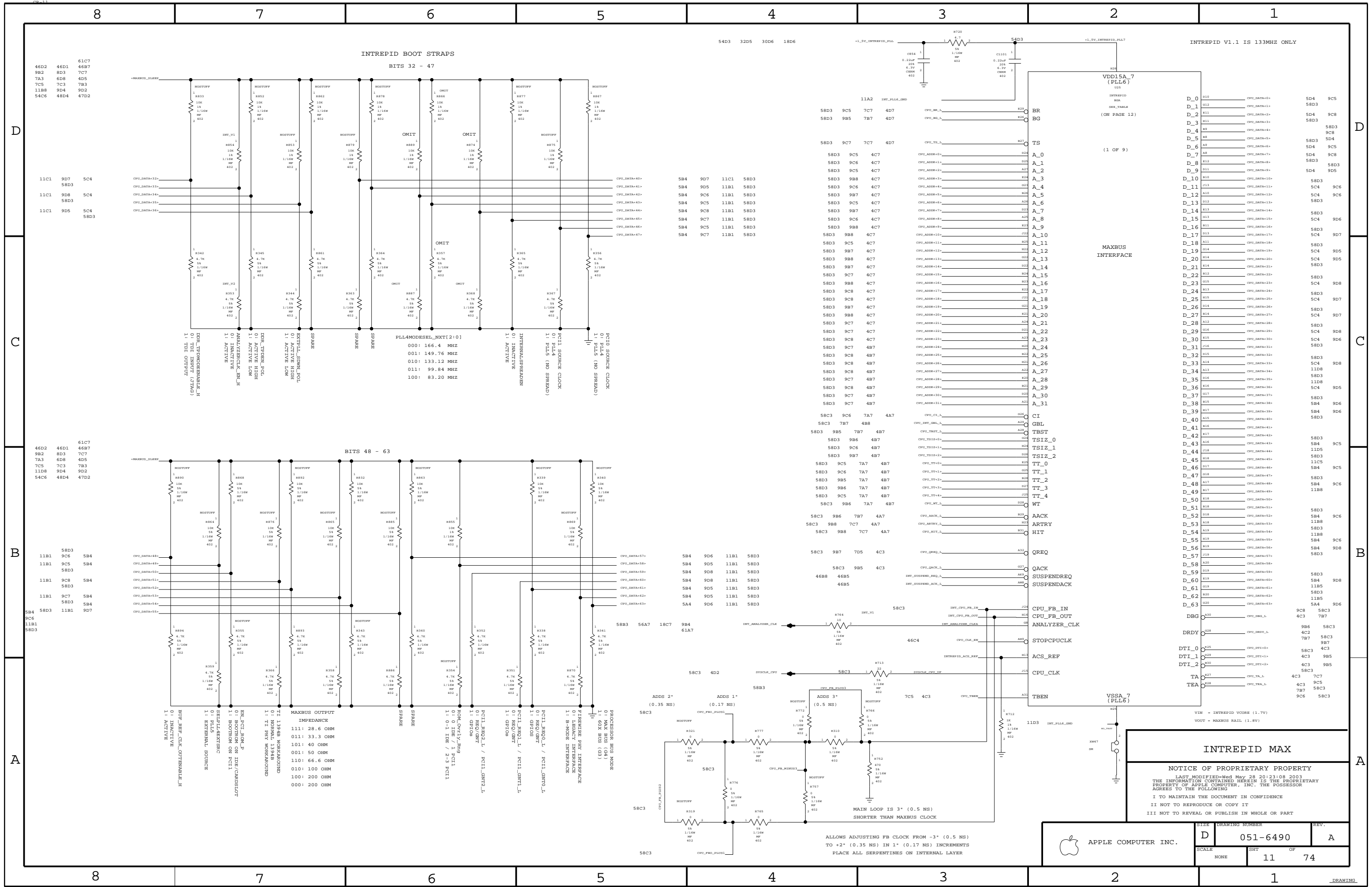


CLOCK CHIP ALTERNATE SUPPORT				
PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
35980065	35980059	U24	IC,CLK DVR,ZDB	PCK2059

CLOCKS

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NONE	10	74	



INTREPID BOOT STRAPS
BITS 32 - 47

INTREPID BOOT STRAPS
BITS 48 - 63

INTREPID MAX

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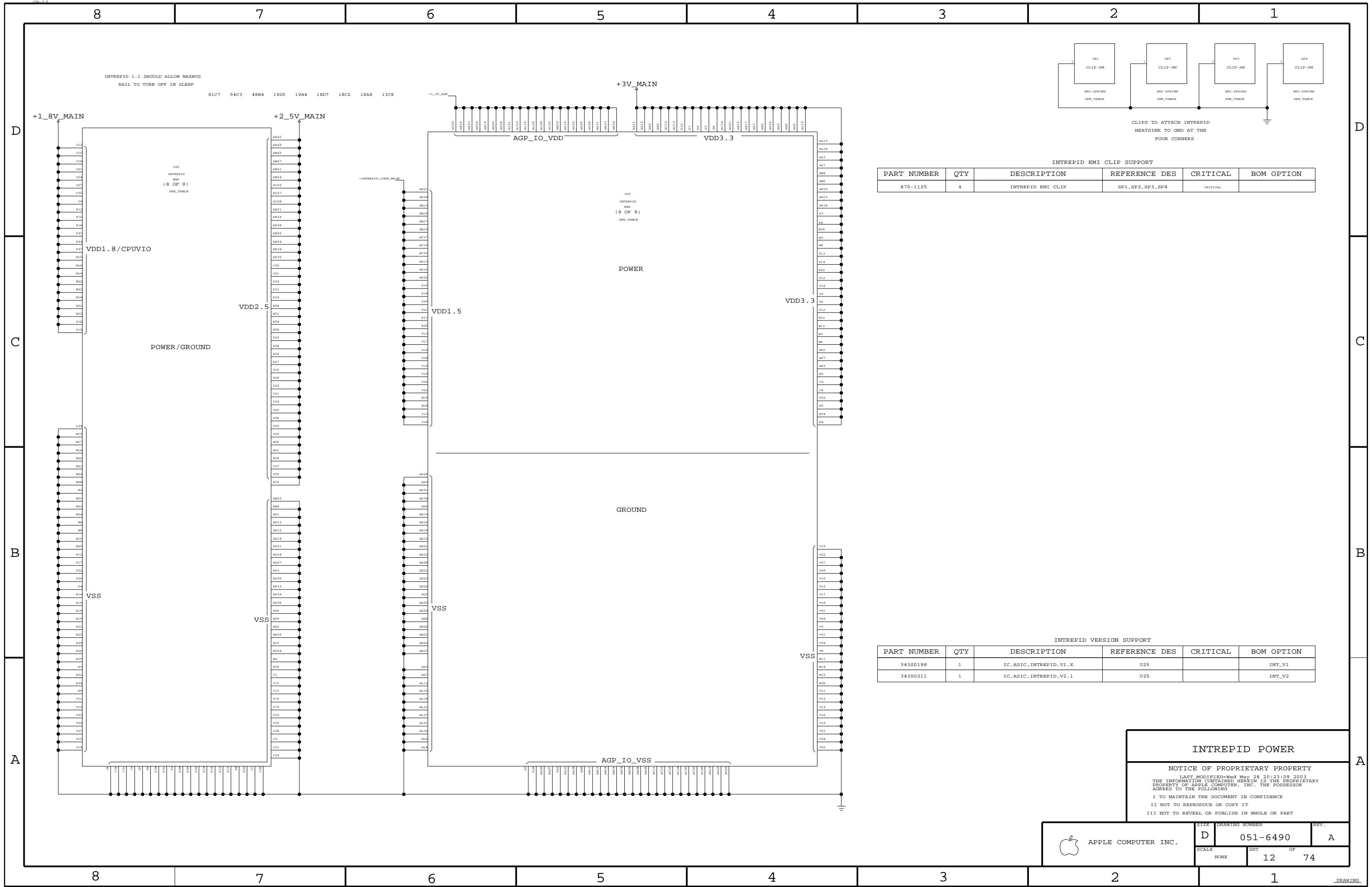
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	SCALE	NONE	
SHEET	11		OF 74
	DRAWING		

ALLOWS ADJUSTING FB CLOCK FROM -3* (0.5 NS) TO +2* (0.35 NS) IN 1* (0.17 NS) INCREMENTS
PLACE ALL SERPENTINES ON INTERNAL LAYER



APPLE COMPUTER INC.

SIZE	D	REV.	A
SCALE	NONE	SHEET	11
		OF	74



INTREPID EMI CLIP SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
870-1125	4	INTREPID EMI CLIP	SP1,SP2,SP3,SP4	CRITICAL	

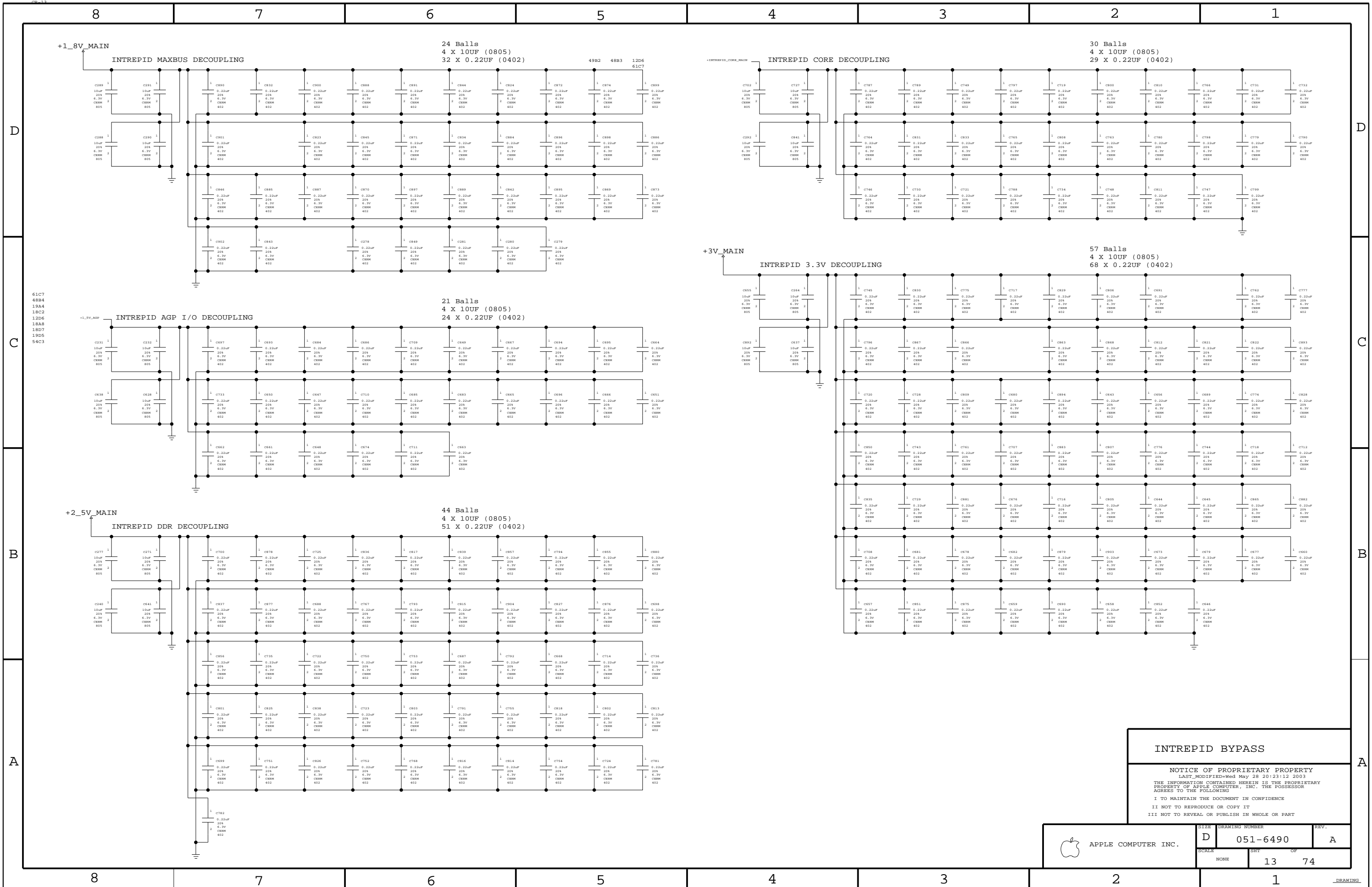
INTREPID VERSION SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
34380198	1	IC,ASIC,INTREPID,V1.X	U25		INT_V1
34380211	1	IC,ASIC,INTREPID,V2.1	U25		INT_V2

INTREPID POWER

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		12	74



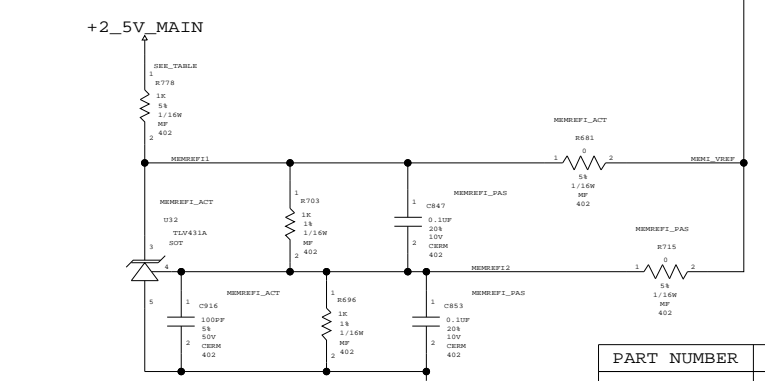
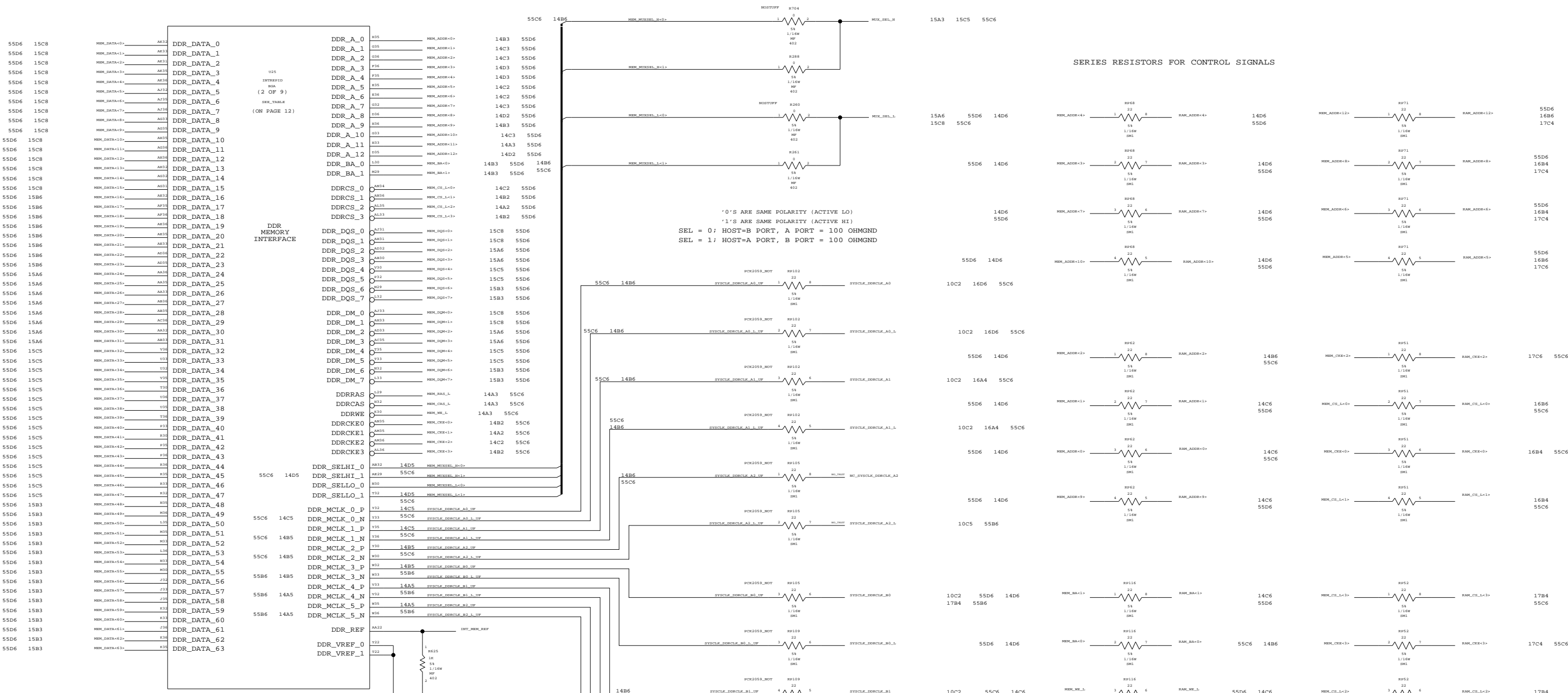
INTREPID BYPASS

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SCALE	SHEET OF		
NONE	13	74	

DDR MUX CONNECTIONS
0-ohm resistors to allow
rewiring if necessary



INTREPID DDR MEMORY REFERENCE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116G1103	1	RES, 1K-OHM, 5%, 1/16W, 0402	R778		MEMREF1_ACT
116S1000	1	RES, 0-OHM, 5%, 1/16W, 0402	R778		MEMREF1_PAS

INTREPID DDR CNTRL

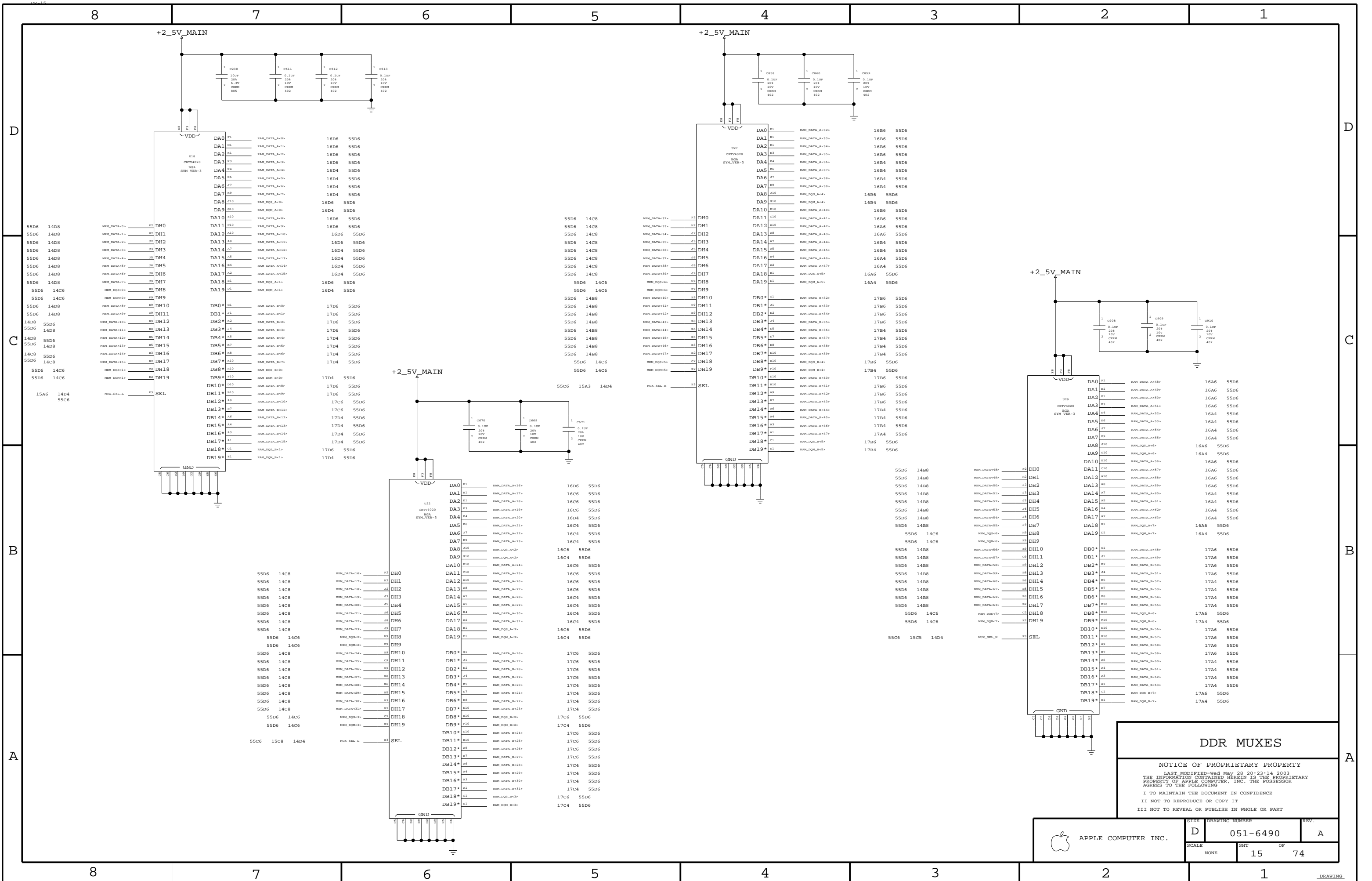
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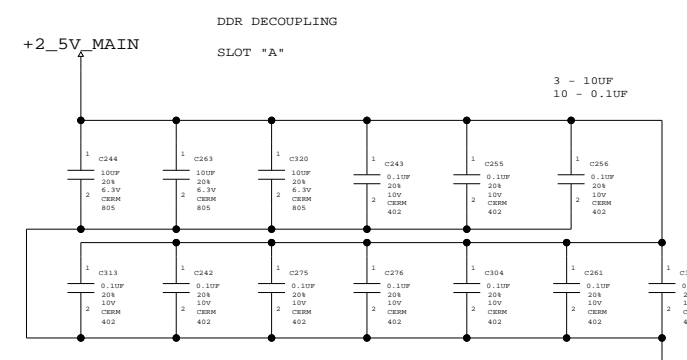
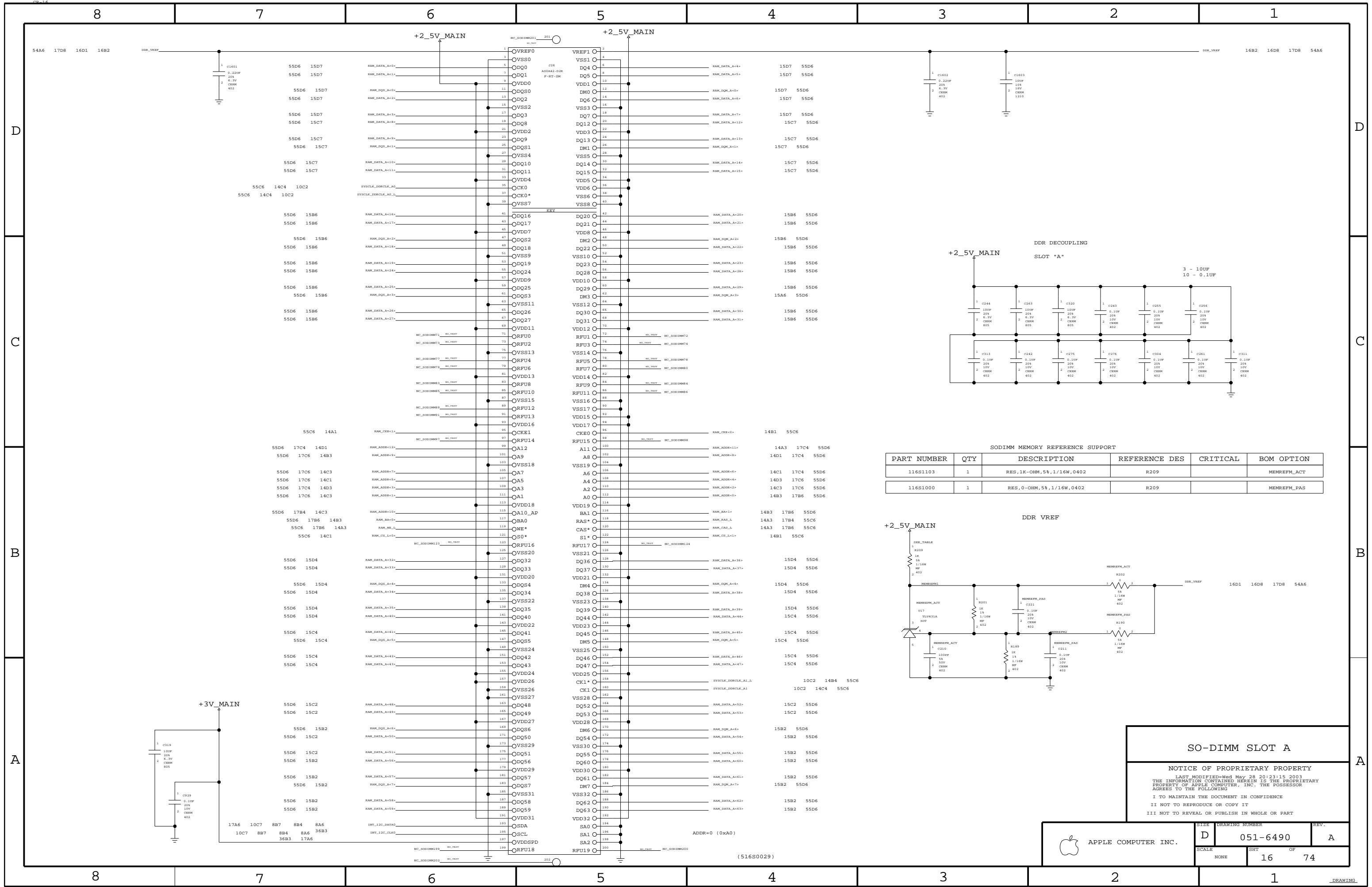
SCALE: NONE SHEET: 14 OF 74



DDR MUXES

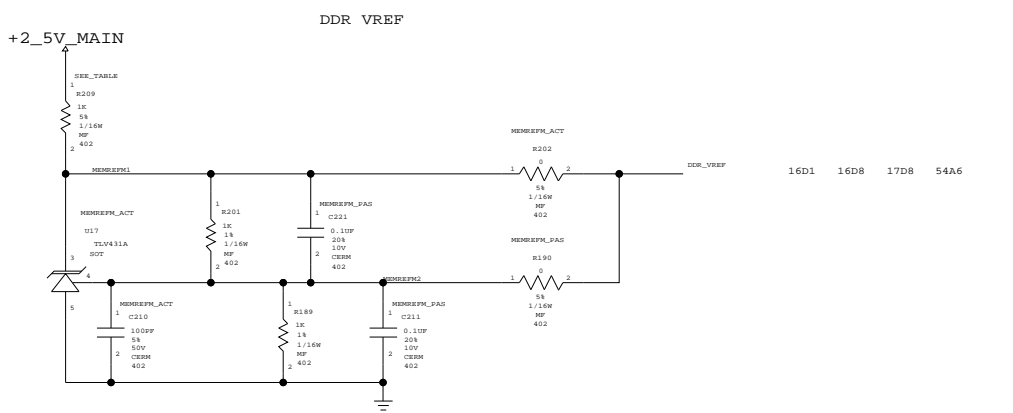
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	SCALE NONE	SHEET 15	OF 74



SODIMM MEMORY REFERENCE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S1103	1	RES, 1K-OHM, 5%, 1/16W, 0402	R209		MEMREFM_ACT
116S1000	1	RES, 0-OHM, 5%, 1/16W, 0402	R209		MEMREFM_PAS



SO-DIMM SLOT A

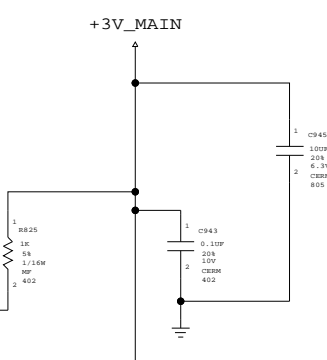
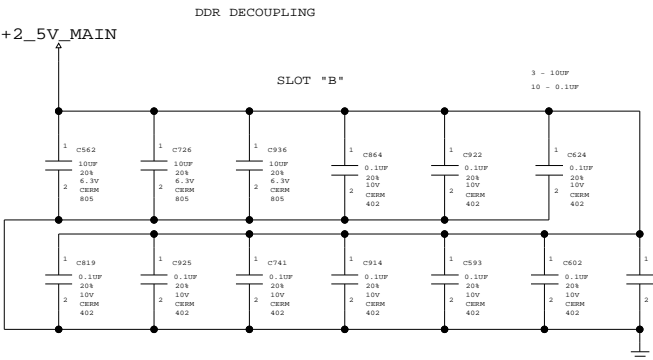
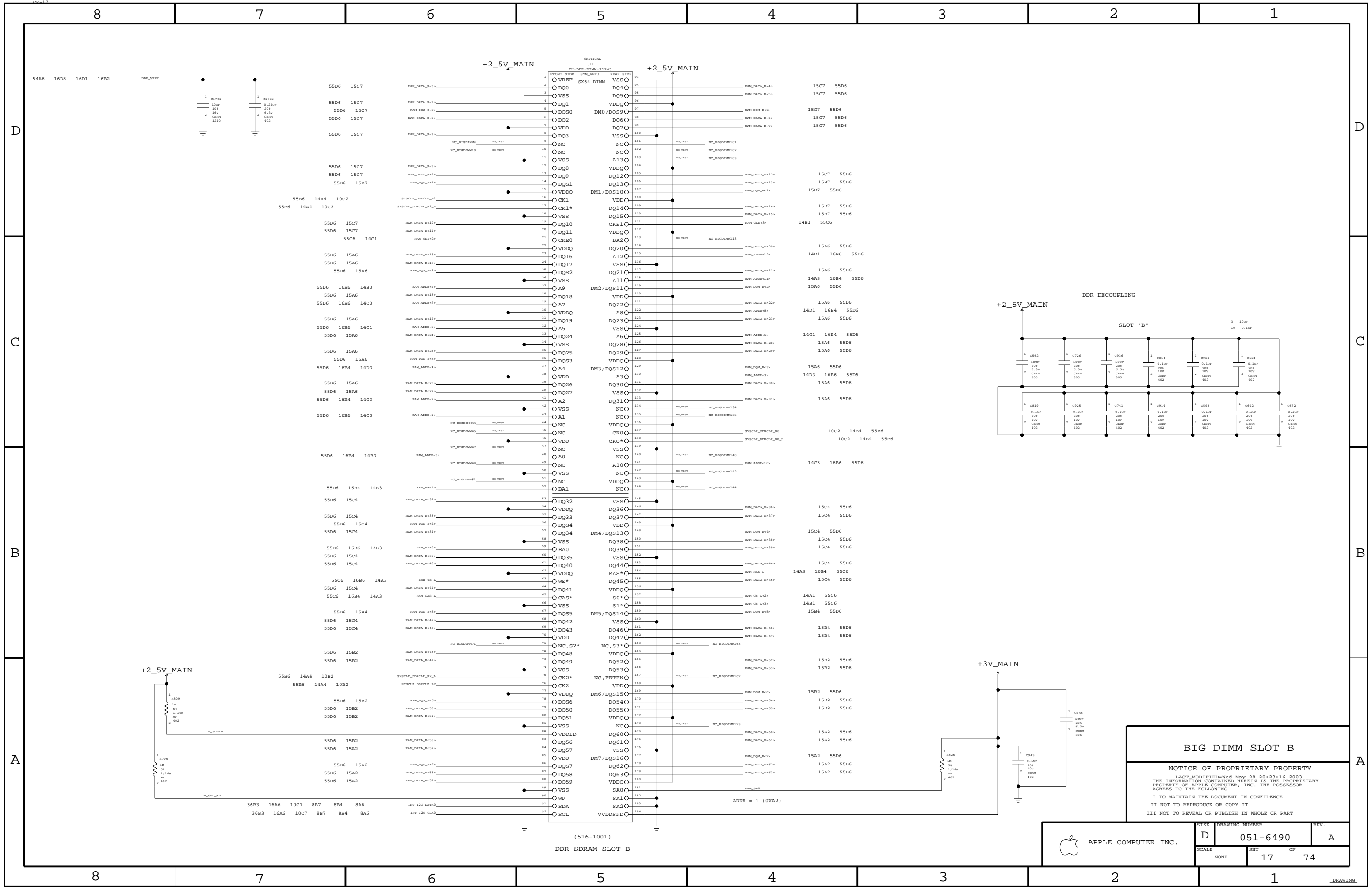
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6490	A
SCALE	SHT	OF	
NONE	16	74	

(516S0029)



BIG DIMM SLOT B

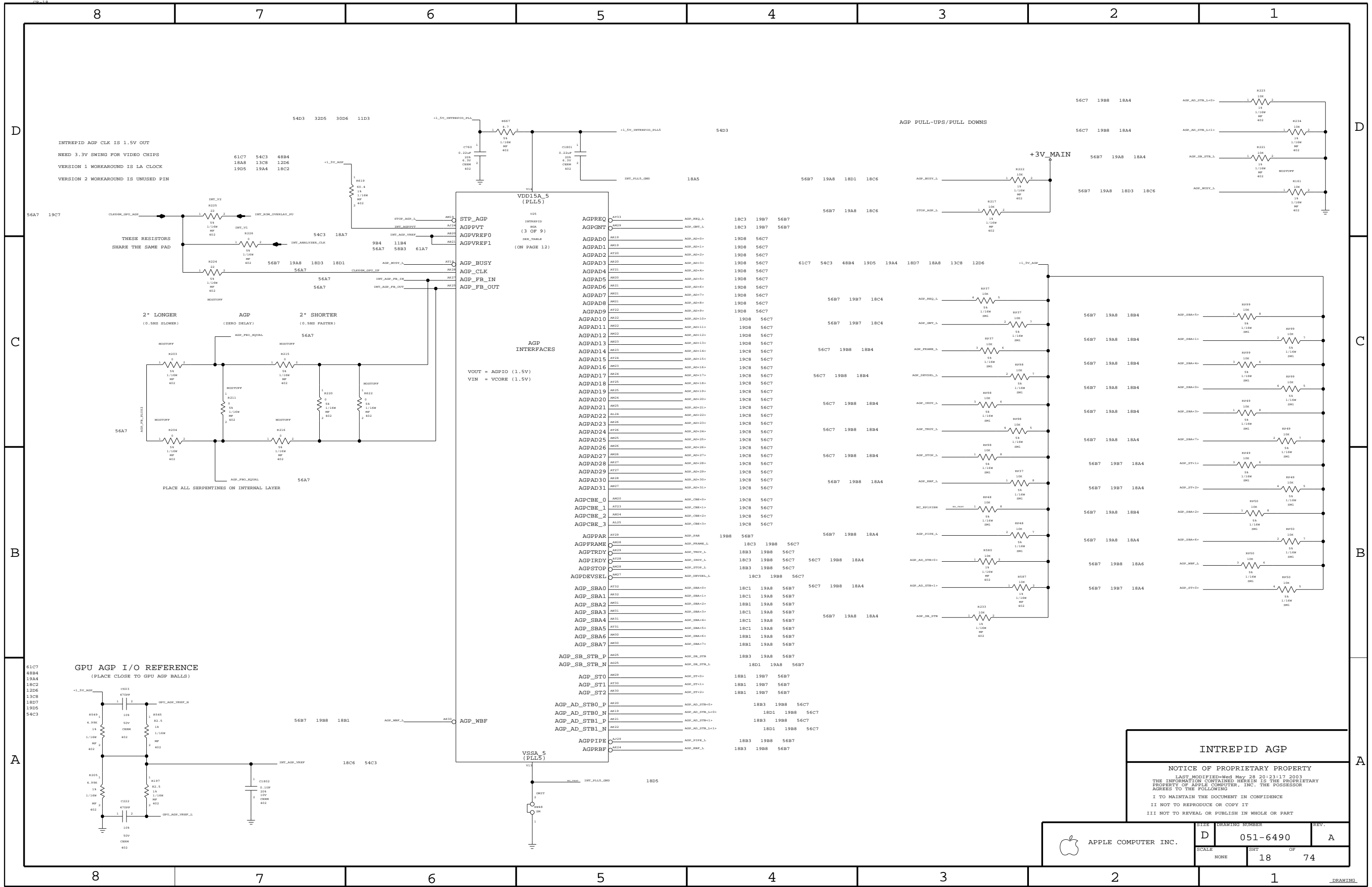
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APPLE COMPUTER INC.	DRAWING NUMBER 051-6490	REV. A
	SCALE NONE	SHEET 17 OF 74

(516-1001)
DDR SDRAM SLOT B



INTREPID AGP CLK IS 1.5V OUT
 NEED 3.3V SWING FOR VIDEO CHIPS
 VERSION 1 WORKAROUND IS LA CLOCK
 VERSION 2 WORKAROUND IS UNUSED PIN

THESE RESISTORS
 SHARE THE SAME PAD

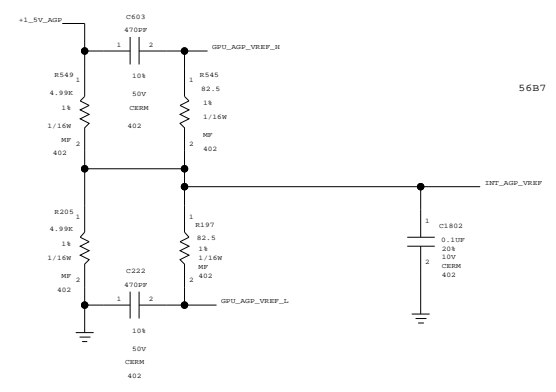
2* LONGER
 (0.5NS SLOWER)

AGP
 (ZERO DELAY)

2* SHORTER
 (0.5NS FASTER)

PLACE ALL SERPENTINES ON INTERNAL LAYER

GPU AGP I/O REFERENCE
 (PLACE CLOSE TO GPU AGP BALLS)



AGP INTERFACES
 VOUT = AGPIO (1.5V)
 VIN = VCORE (1.5V)

VDD15A_5 (PLL5)

INTREPID
 SDA
 (3 OF 9)
 (ON PAGE 12)

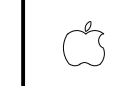
AGP INTERFACES

VOUT = AGPIO (1.5V)
 VIN = VCORE (1.5V)

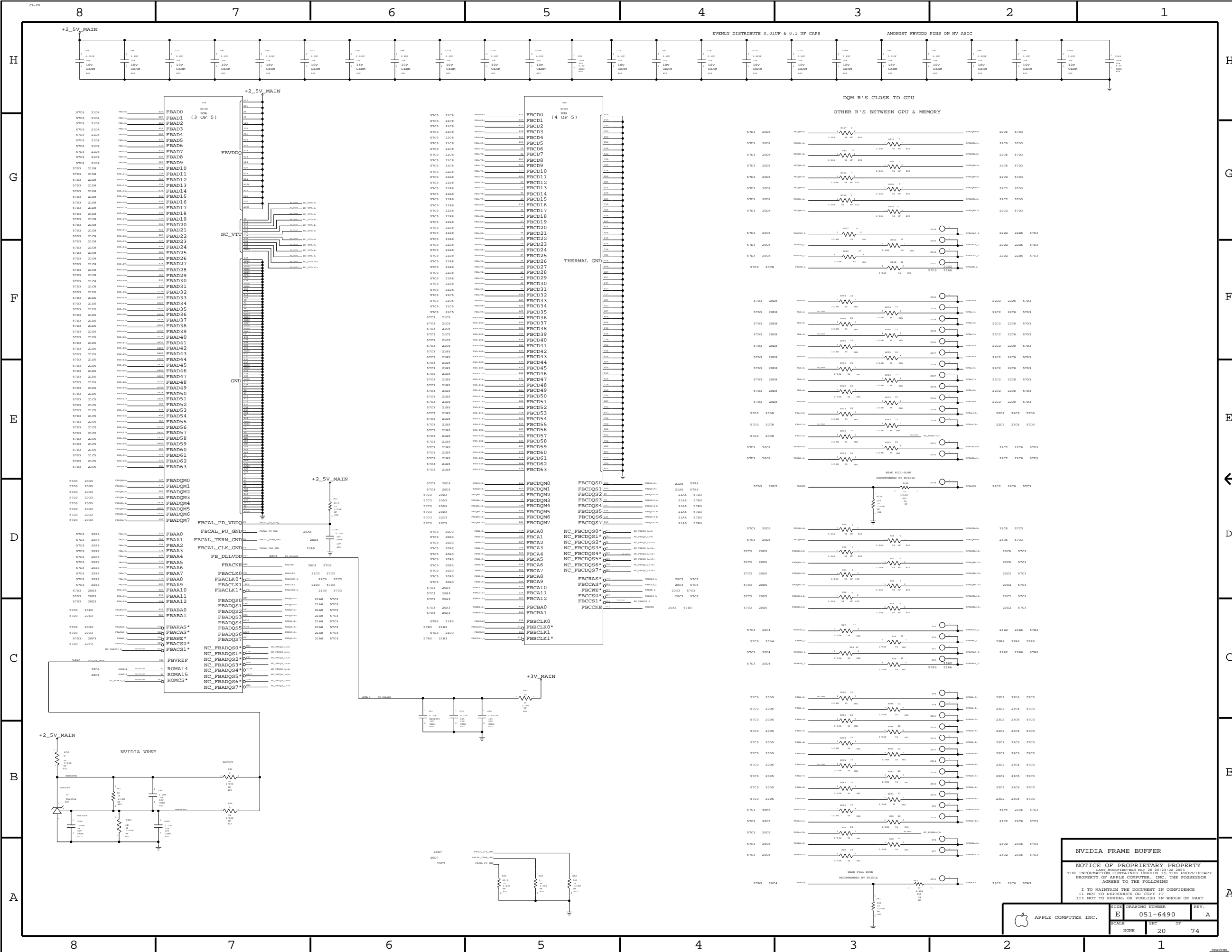
AGPREQ	AT33	AGP_REQ_L	18C3	19B7	56B7
AGPGNT	AM29	AGP_GNT_L	18C3	19B7	56B7
AGPAD0	AM19	AGP_Ad0	19D8	56C7	
AGPAD1	AM19	AGP_Ad1	19D8	56C7	
AGPAD2	AT20	AGP_Ad2	19D8	56C7	
AGPAD3	AM20	AGP_Ad3	19D8	56C7	61C7
AGPAD4	AT21	AGP_Ad4	19D8	56C7	
AGPAD5	AM20	AGP_Ad5	19D8	56C7	
AGPAD6	AM21	AGP_Ad6	19D8	56C7	
AGPAD7	AM21	AGP_Ad7	19D8	56C7	
AGPAD8	AT22	AGP_Ad8	19D8	56C7	
AGPAD9	AM22	AGP_Ad9	19D8	56C7	
AGPAD10	AM22	AGP_Ad10	19D8	56C7	
AGPAD11	AM22	AGP_Ad11	19D8	56C7	
AGPAD12	AM22	AGP_Ad12	19D8	56C7	
AGPAD13	AM23	AGP_Ad13	19D8	56C7	
AGPAD14	AM23	AGP_Ad14	19C8	56C7	56C7
AGPAD15	AT24	AGP_Ad15	19C8	56C7	
AGPAD16	AM23	AGP_Ad16	19C8	56C7	
AGPAD17	AT24	AGP_Ad17	19C8	56C7	
AGPAD18	AT25	AGP_Ad18	19C8	56C7	
AGPAD19	AM25	AGP_Ad19	19C8	56C7	
AGPAD20	AM24	AGP_Ad20	19C8	56C7	
AGPAD21	AM25	AGP_Ad21	19C8	56C7	
AGPAD22	AL24	AGP_Ad22	19C8	56C7	
AGPAD23	AM26	AGP_Ad23	19C8	56C7	
AGPAD24	AT26	AGP_Ad24	19C8	56C7	
AGPAD25	AM26	AGP_Ad25	19C8	56C7	
AGPAD26	AM26	AGP_Ad26	19C8	56C7	
AGPAD27	AM26	AGP_Ad27	19C8	56C7	
AGPAD28	AM27	AGP_Ad28	19C8	56C7	
AGPAD29	AT27	AGP_Ad29	19C8	56C7	
AGPAD30	AM28	AGP_Ad30	19C8	56C7	
AGPAD31	AM27	AGP_Ad31	19C8	56C7	
AGPCBE_0	AM20	AGP_CBE0	19C8	56C7	
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AGPCBE_2	AM24	AGP_CBE2	19C8	56C7	
AGPCBE_3	AL25	AGP_CBE3	19C8	56C7	
AGPPAR	AT29	AGP_PAR	19B8	56B7	
AGPFRAME	AM28	AGP_FRAME_L	18C3	19B8	56C7
AGPTRDY	AM29	AGP_TRDY_L	18B3	19B8	56C7
AGPIRDY	AT28	AGP_IRDY_L	18C3	19B8	56C7
AGPSTOP	AM28	AGP_STOP_L	18B3	19B8	56C7
AGPDEVSEL	AM27	AGP_DEVSEL_L	18C3	19B8	56C7
AGP_SBA0	AT32	AGP_SBA0	18C1	19A8	56B7
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AGP_SB_STB_N	AG25	AGP_SB_STB_N	18D1	19A8	56B7
AGP_ST0	AM29	AGP_ST0	18B1	19B7	56B7
AGP_ST1	AT30	AGP_ST1	18B1	19B7	56B7
AGP_ST2	AM30	AGP_ST2	18B1	19B7	56B7
AGP_AD_STB0_P	AM30	AGP_AD_STB0_P	18B3	19B8	56C7
AGP_AD_STB0_N	AM31	AGP_AD_STB0_N	18D1	19B8	56C7
AGP_AD_STB1_P	AM32	AGP_AD_STB1_P	18B3	19B8	56C7
AGP_AD_STB1_N	AM32	AGP_AD_STB1_N	18D1	19B8	56C7
AGPPIPE	AT29	AGP_PIPE_L	18B3	19B8	56B7
AGPRBP	AM24	AGP_RBP_L	18B3	19B8	56B7

INTREPID AGP
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SCALE		SHT OF
NONE	18	74



APPLE COMPUTER INC.



PLACE R'S BETWEEN GPU & MEMORY

PLACE R'S CLOSE TO GPU

D

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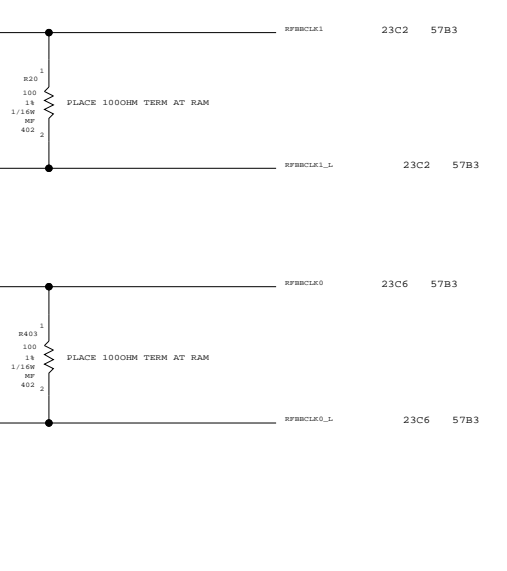
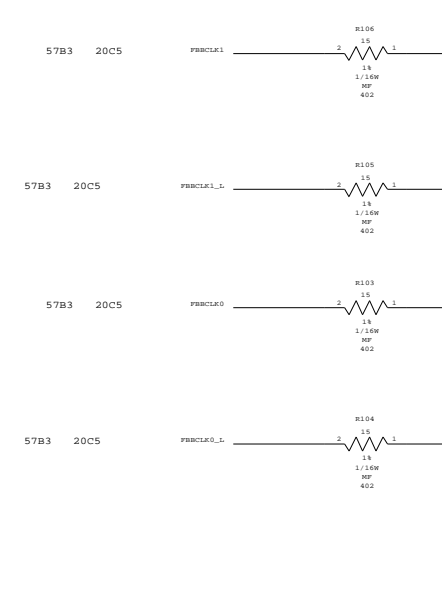
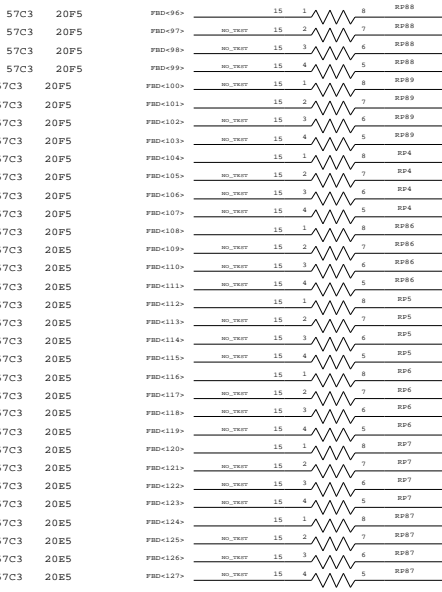
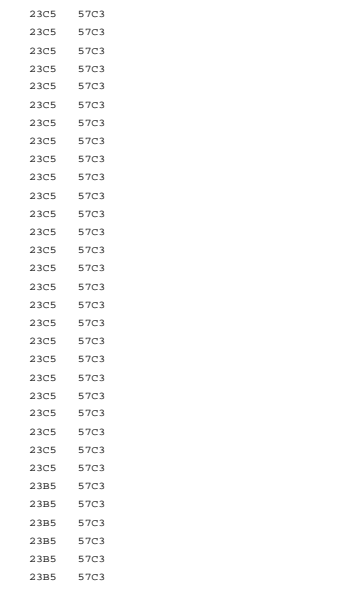
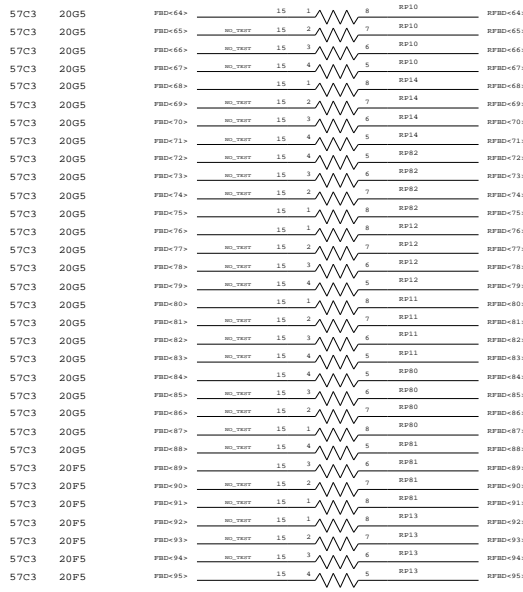
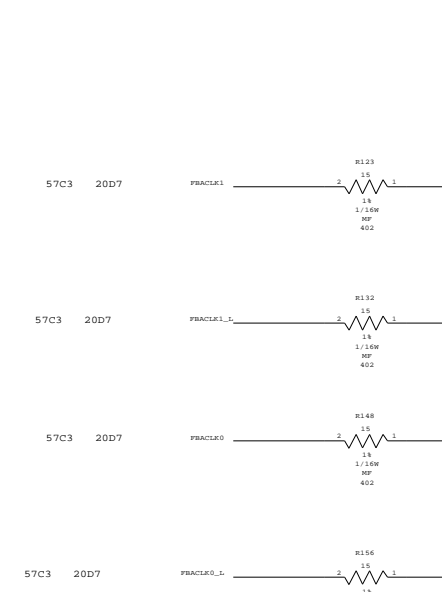
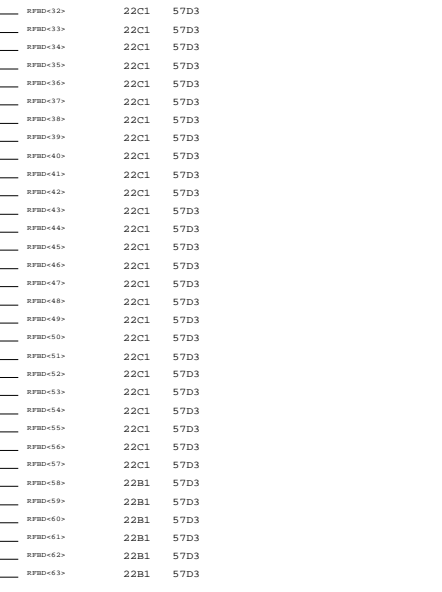
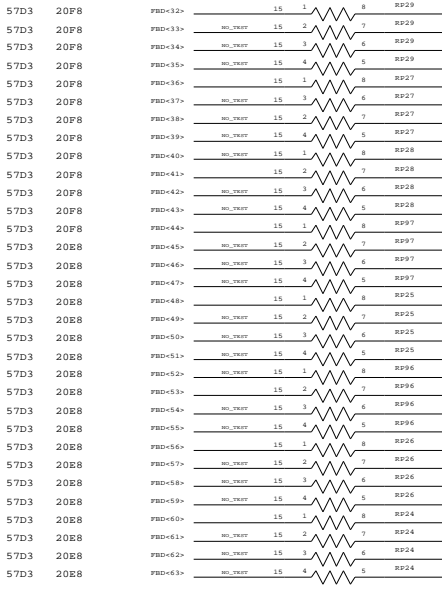
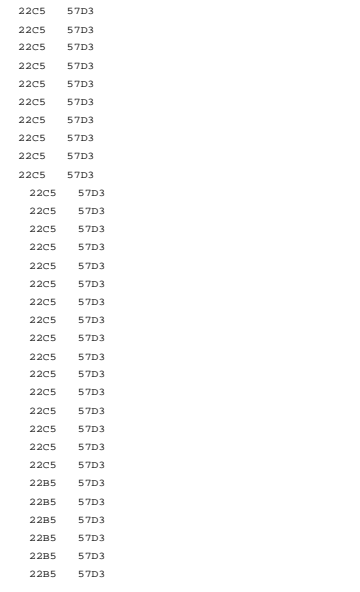
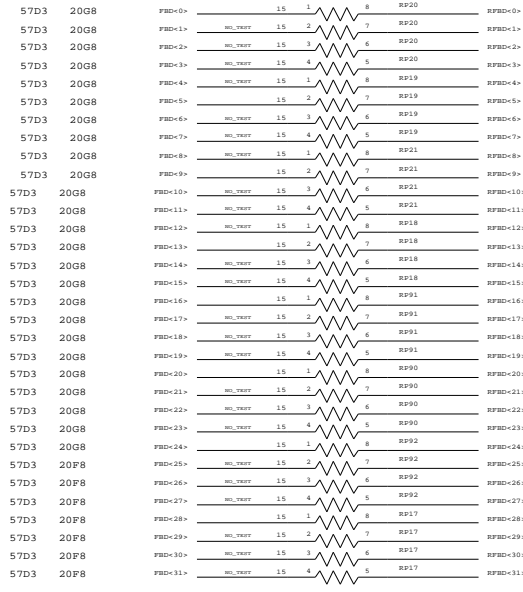
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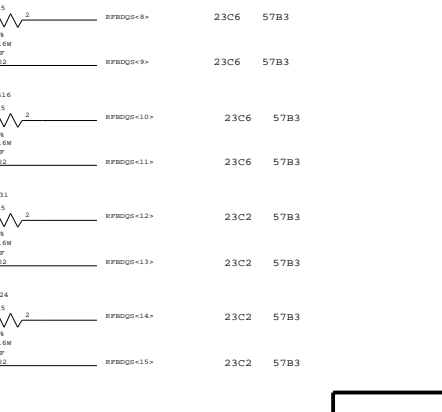
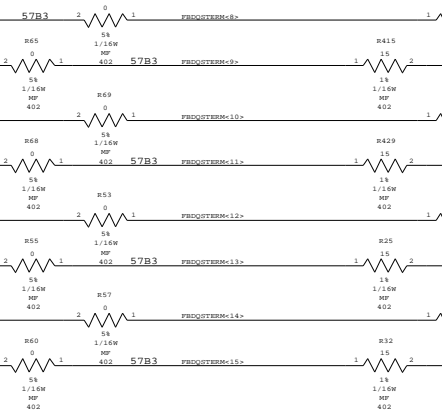
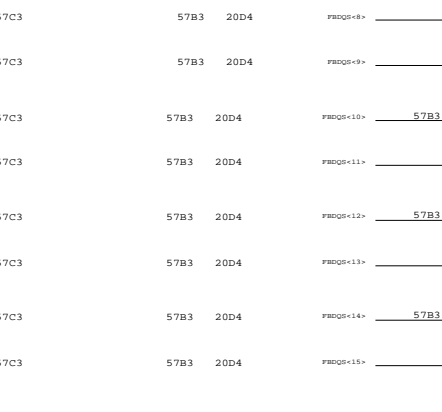
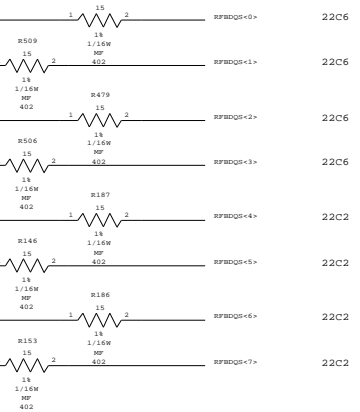
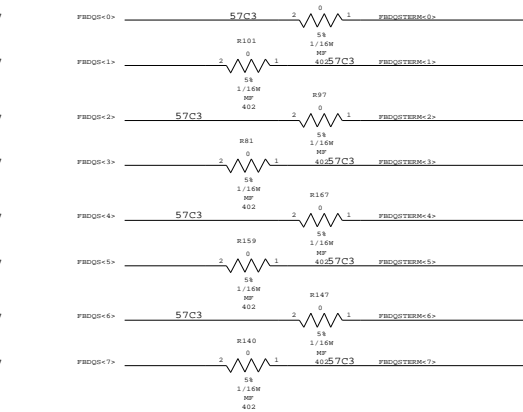


PLACE THESE R CLOSE TO GPU

PLACE THESE R CLOSE TO SGRAM

PLACE THESE R CLOSE TO GPU

PLACE THESE R CLOSE TO SGRAM



F'B TERMINATION

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SIZE: D DRAWING NUMBER: 051-6490 REV.: A

SCALE: NONE SHEET: 21 OF 74

D

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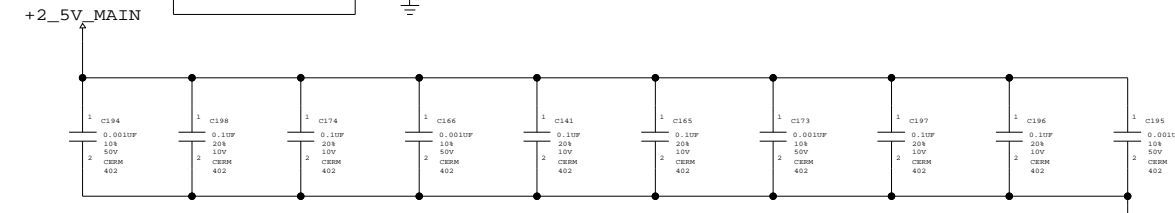
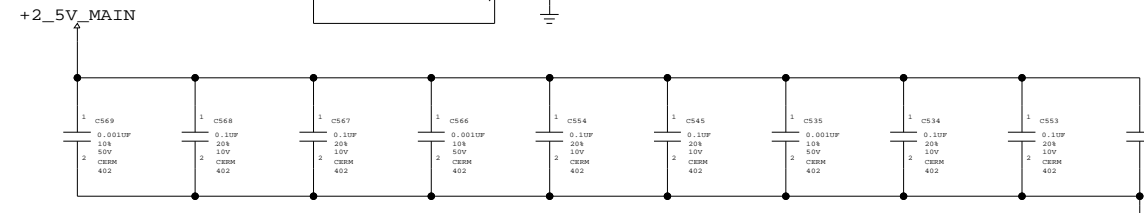
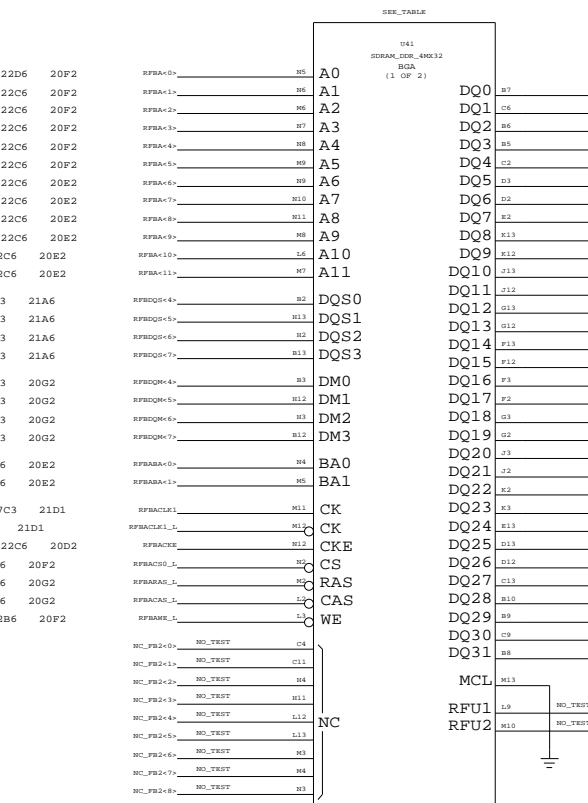
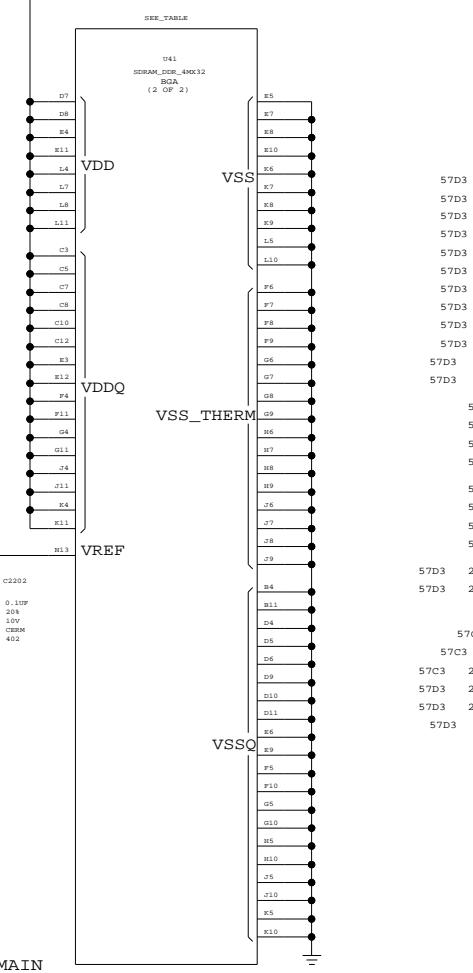
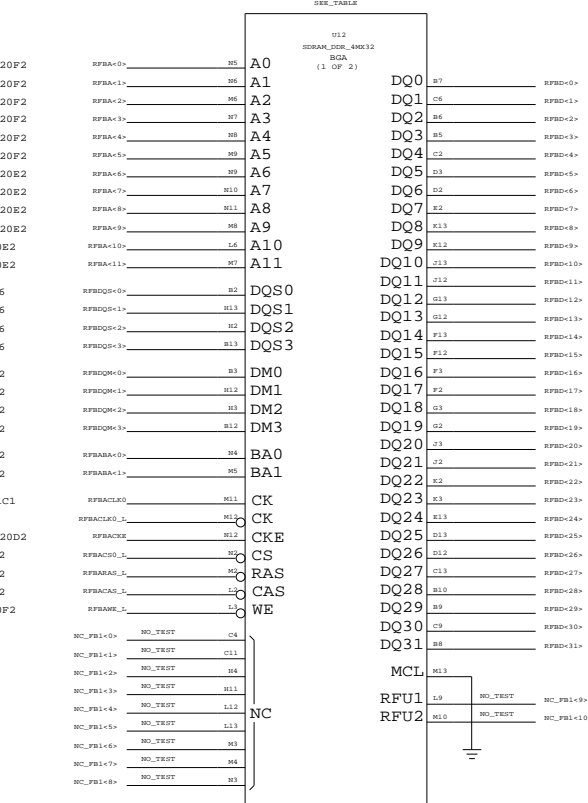
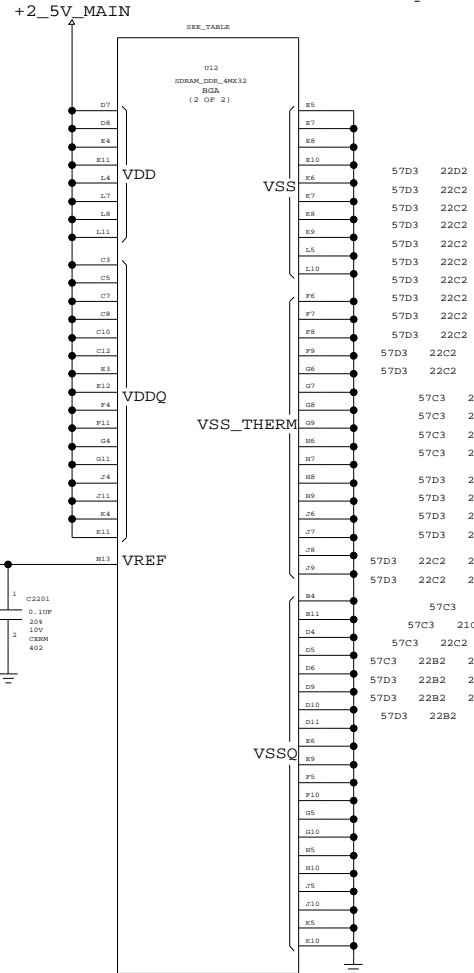
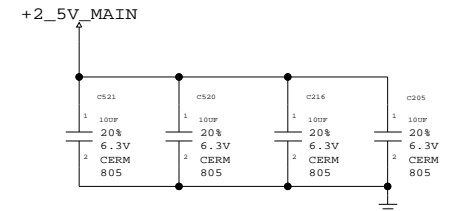
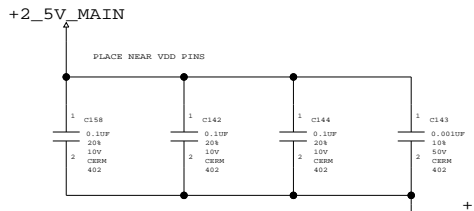
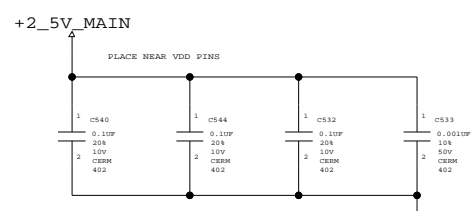
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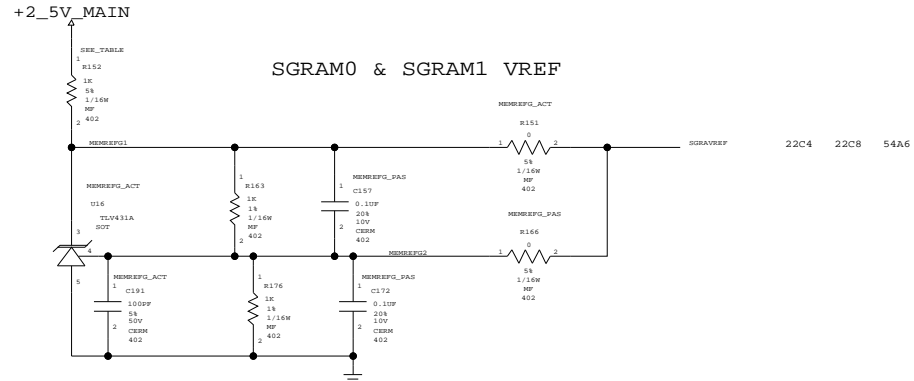


SGRAM0 & SGRAM1 MEMORY SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
333S0249	2	SDRAM, 4MX32, DDR, 275MHZ	U12, U41	CRITICAL	275_SAMSUNG
333S0250	2	SDRAM, 4MX32, DDR, 275MHZ	U12, U41	CRITICAL	275_HYNIX

SGRAM0 & SGRAM1 DDR MEMORY REFERENCE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S1103	1	RES, 1K-OHM, 5%, 1/16W, 0402	R152		MEMREFQ_ACT
116S1000	1	RES, 0-OHM, 5%, 1/16W, 0402	R152		MEMREFQ_PAS



SGRAM0 & SGRAM1

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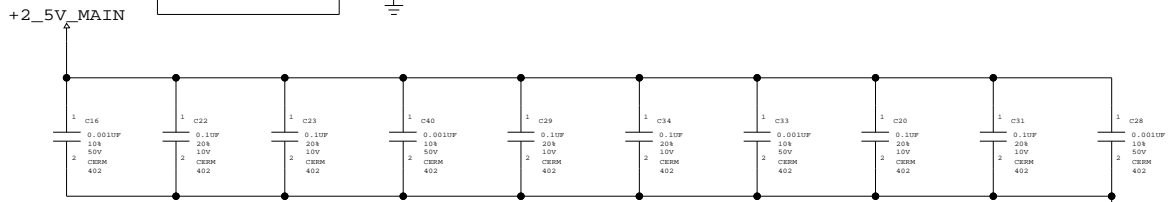
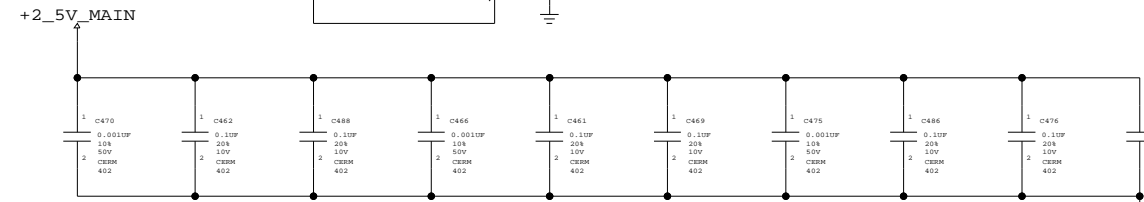
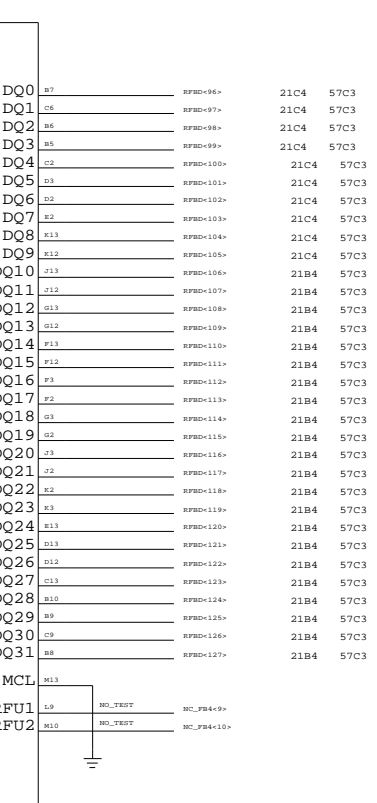
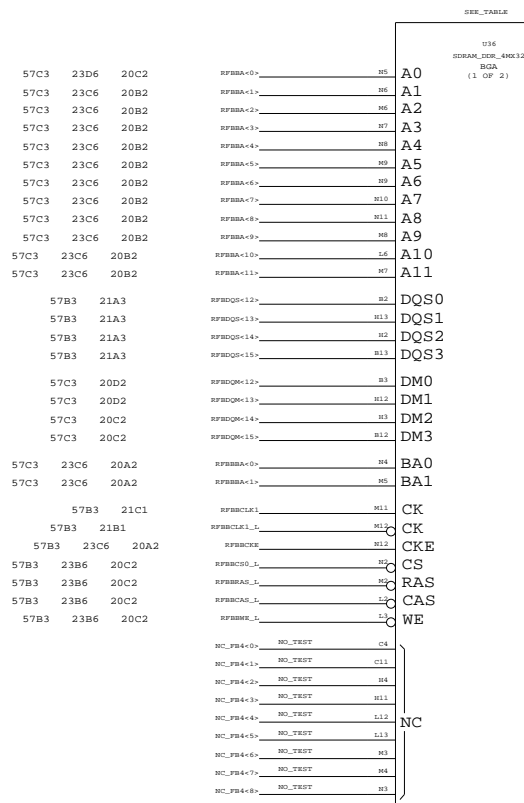
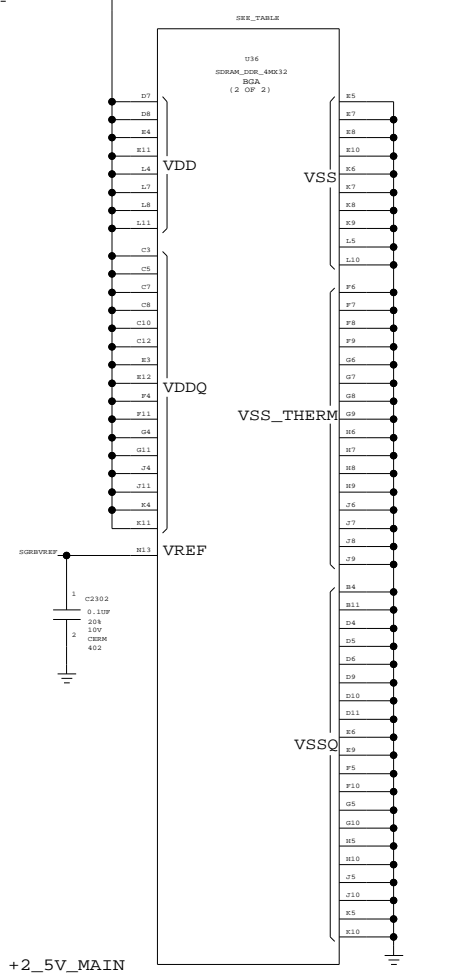
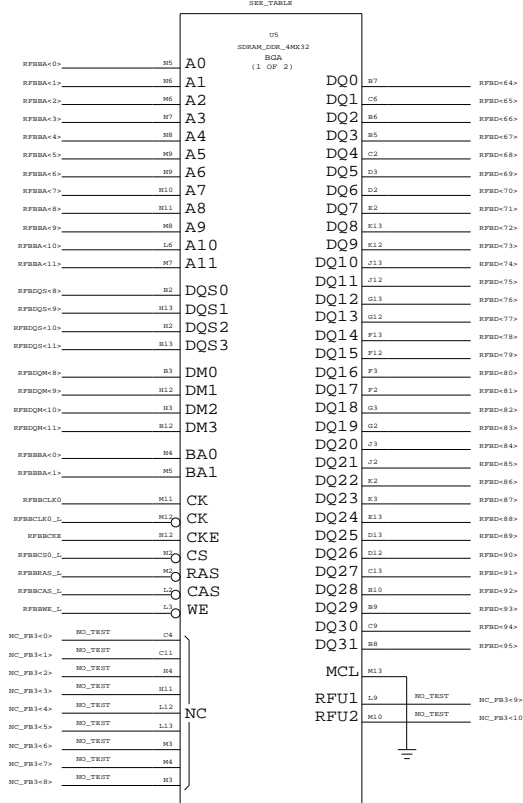
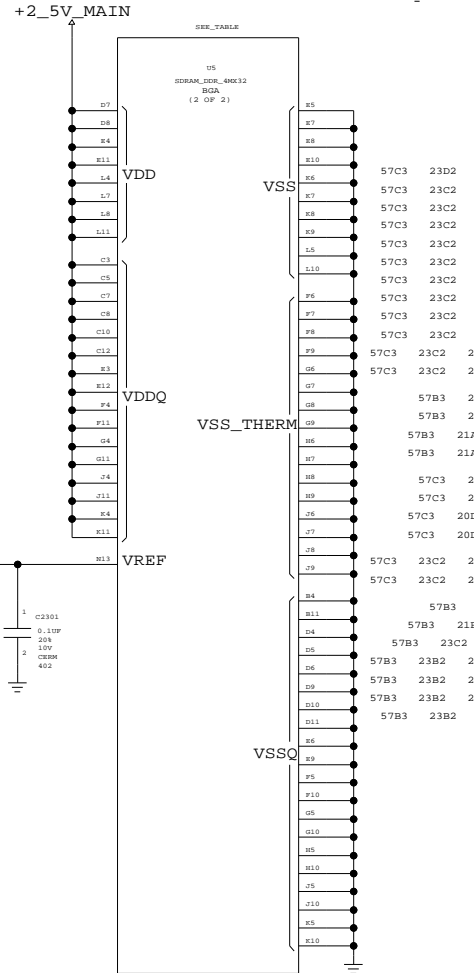
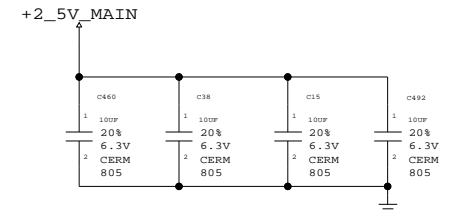
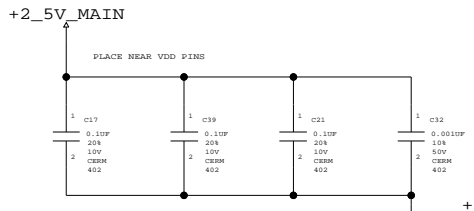
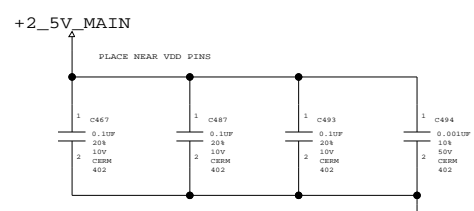
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SCALE: NONE

SHEET: 22 OF 74

DRAWING NUMBER: 051-6490

REV: A

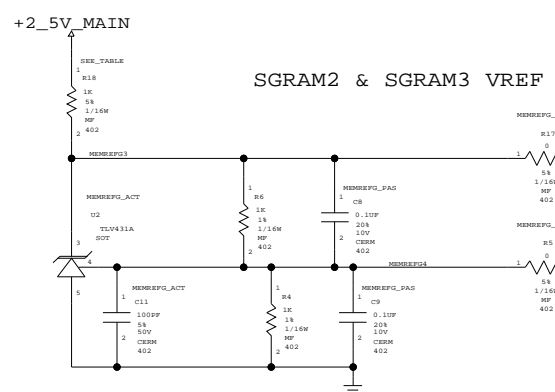


SGRAM0 & SGRAM1 MEMORY SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
333S0249	2	SDRAM, 4MX32, DDR, 275MHZ	US, U36	CRITICAL	275_SAMSUNG
333S0250	2	SDRAM, 4MX32, DDR, 275MHZ	US, U36	CRITICAL	275_HYNIX

SGRAM2 & SGRAM3 DDR MEMORY REFERENCE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S1103	1	RES, 1K-OHM, 5%, 1/16W, 0402	R18		MEMREFG_ACT
116S1000	1	RES, 0-OHM, 5%, 1/16W, 0402	R18		MEMREFG_PAS



SGRAM2 & SGRAM3

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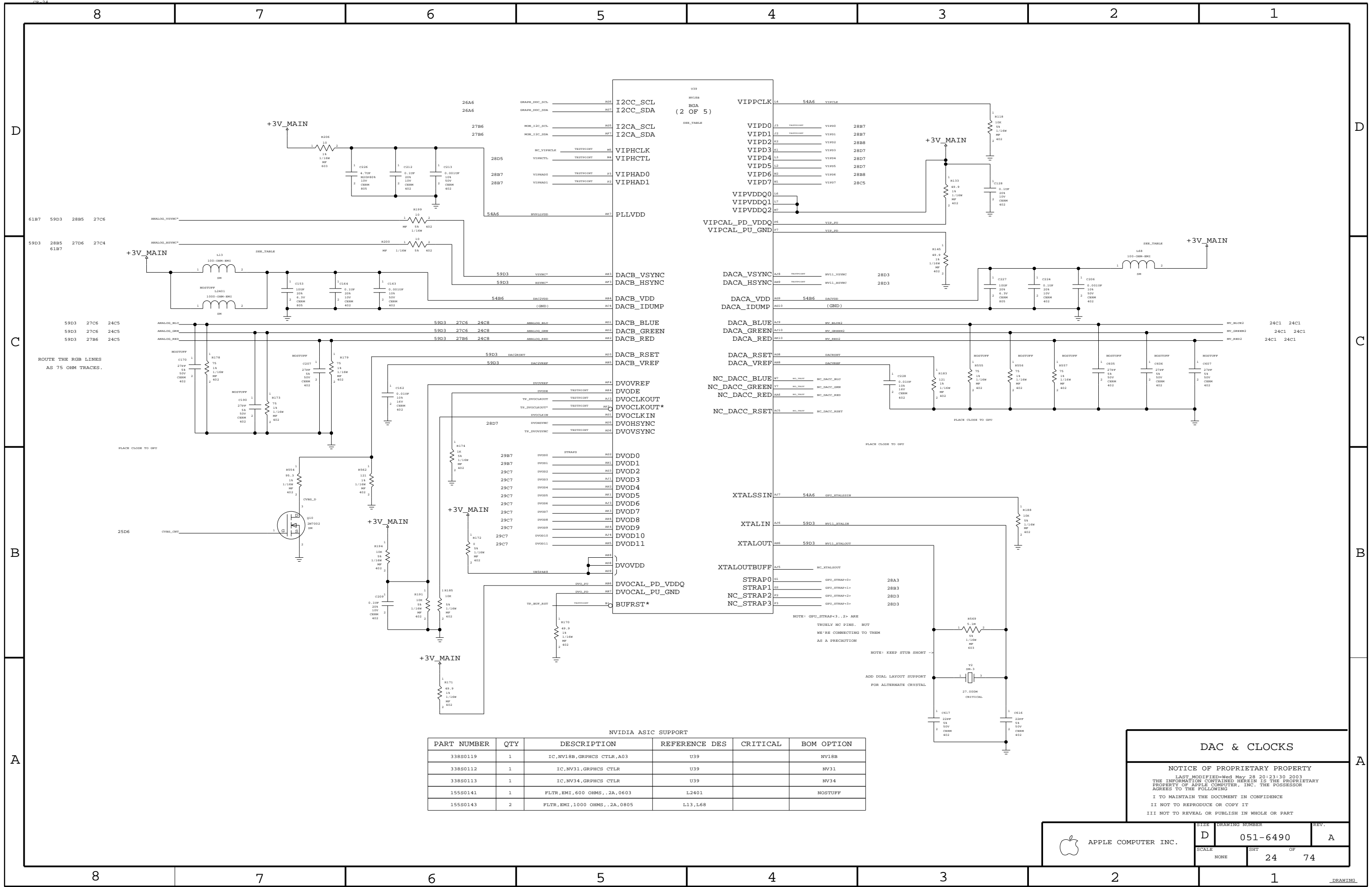
APPLE COMPUTER INC.

SCALE: NONE

SHEET: 23 OF 74

DRAWING NUMBER: 051-6490

REV: A



ROUTE THE RGB LINES AS 75 OHM TRACES.

PLACE CLOSE TO GPU

NOTE: GPU_STRAP[3..2] ARE TRULY NC PINS. BUT WE'RE CONNECTING TO THEM AS A PRECAUTION

NOTE: KEEP STUB SHORT -->

ADD DUAL LAYOUT SUPPORT FOR ALTERNATE CRYSTAL

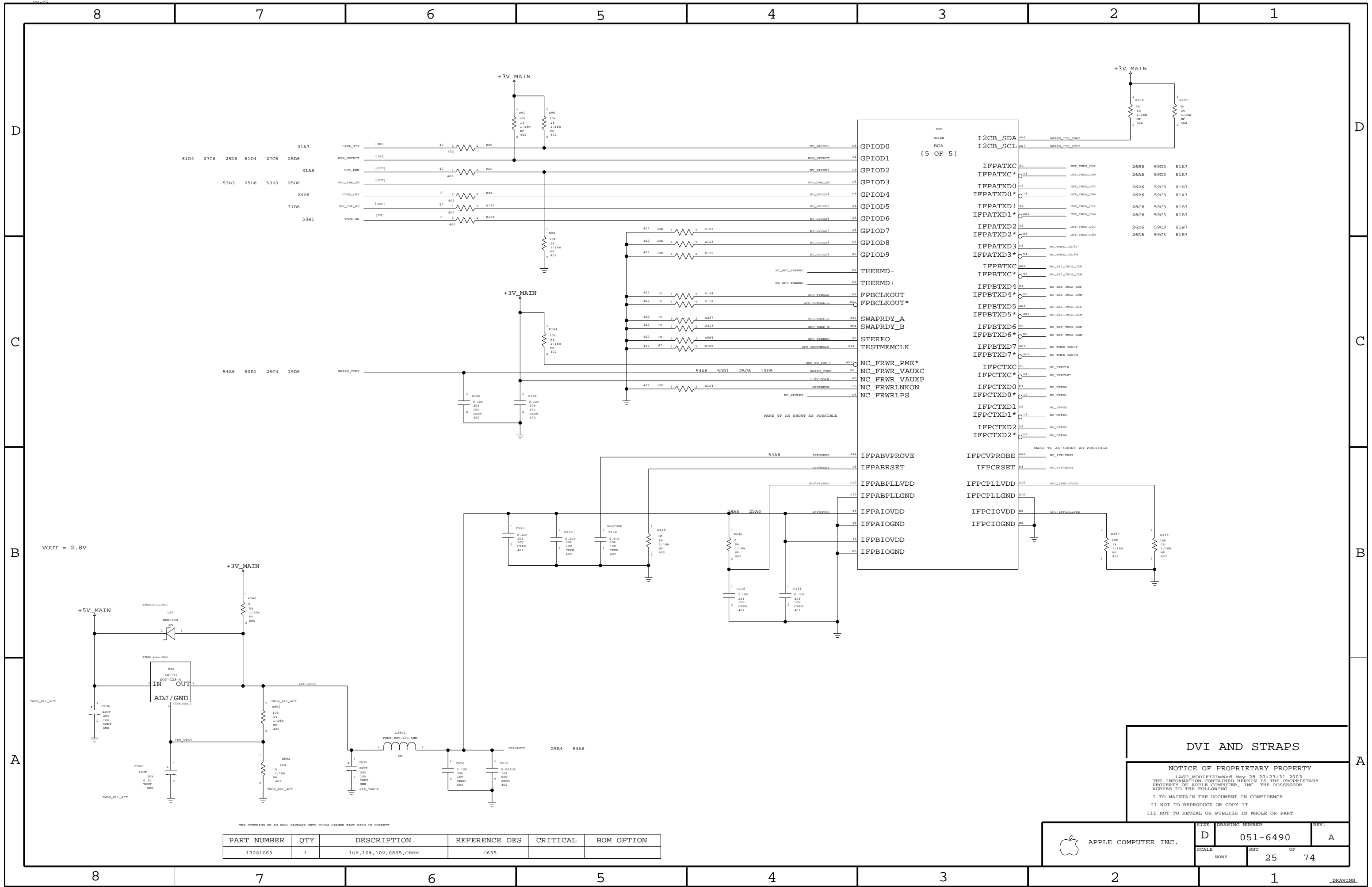
NVIDIA ASIC SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
33880119	1	IC,NV18B,GRPHCS CTRLR,A03	U39		NV18B
33880112	1	IC,NV31,GRPHCS CTRLR	U39		NV31
33880113	1	IC,NV34,GRPHCS CTRLR	U39		NV34
15580141	1	FLTR,EMI,600 OHMS,.2A,0603	L2401		NOSTUFF
15580143	2	FLTR,EMI,1000 OHMS,.2A,0805	L13,L68		

DAC & CLOCKS

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	SCALE NONE	SHEET 24	OF 74



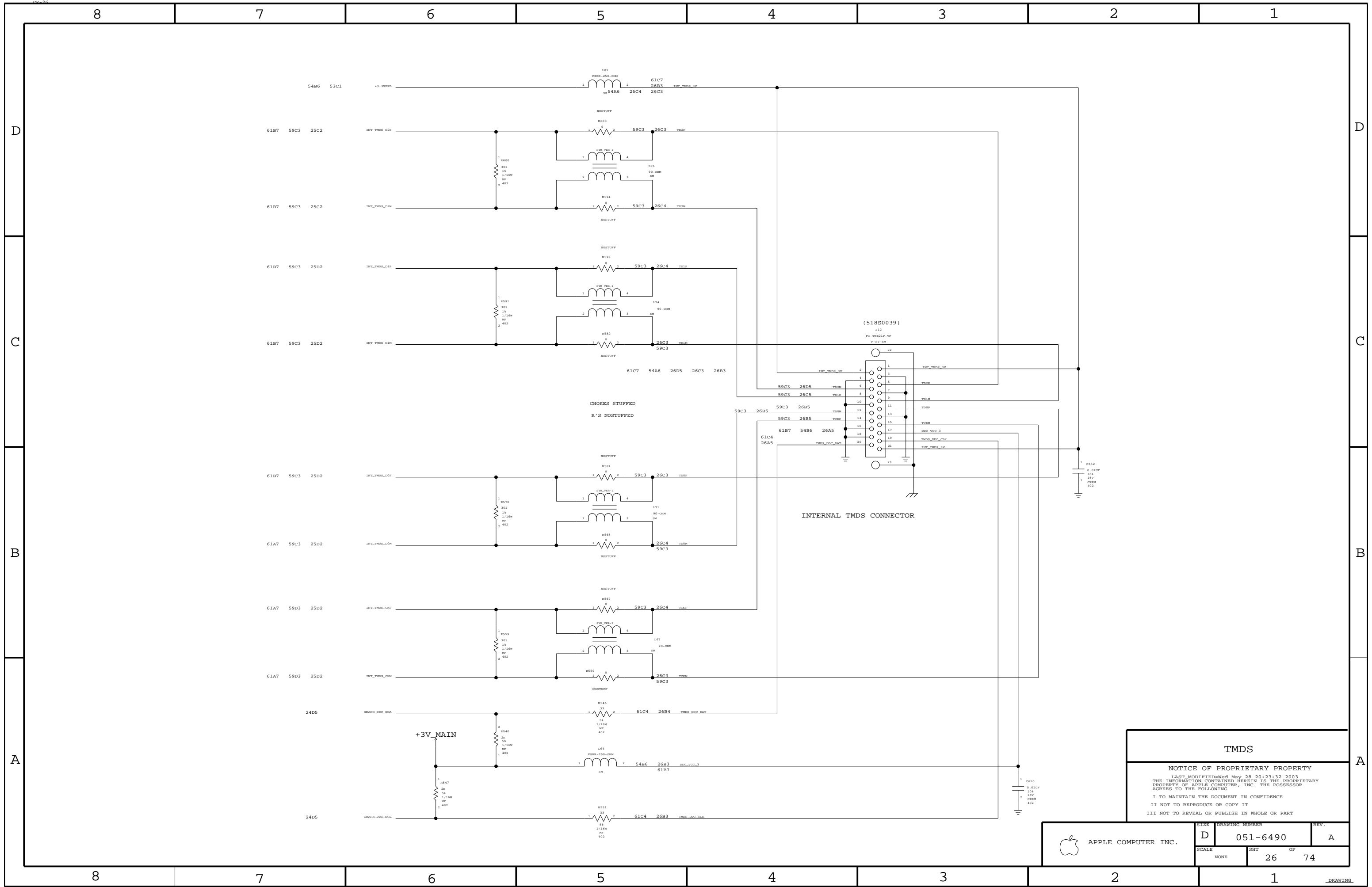
DVI AND STRAPS

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PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
132S1063	1	1UF,10%,10V,0805,CERM	C635		

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6490	A
SCALE	SHT		OF
NONE	25		74

THE STUFFING OF AN 0805 PACKAGE ONTO C635 LARGER TANT SMD IS CORRECT



TMSD

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	SCALE NONE	SHEET 26	OF 74

D

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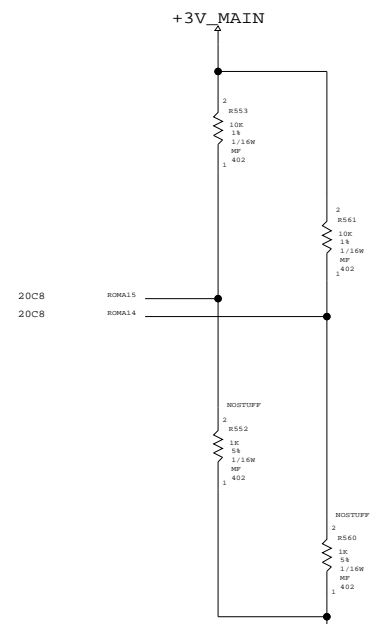
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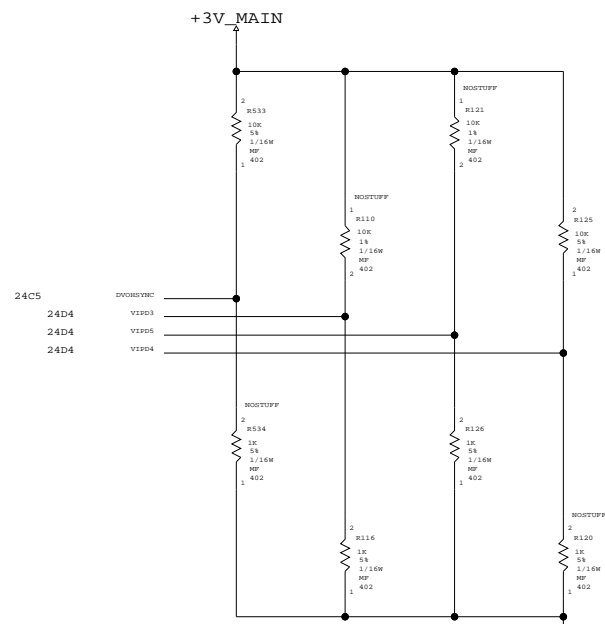
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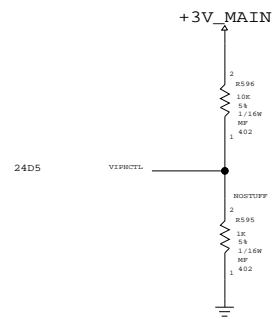
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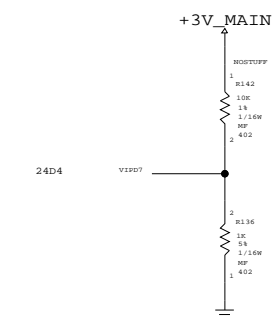
(1) ROM TYPE (OVERRIDDEN IF STRAP1 = 0)
 [1..0] = [ROM15,ROM14]
 00 = PARALLEL
 01 = SERIAL AT25F
 10 = SERIAL SST45VF
 * 11 = SERIAL FUTURE



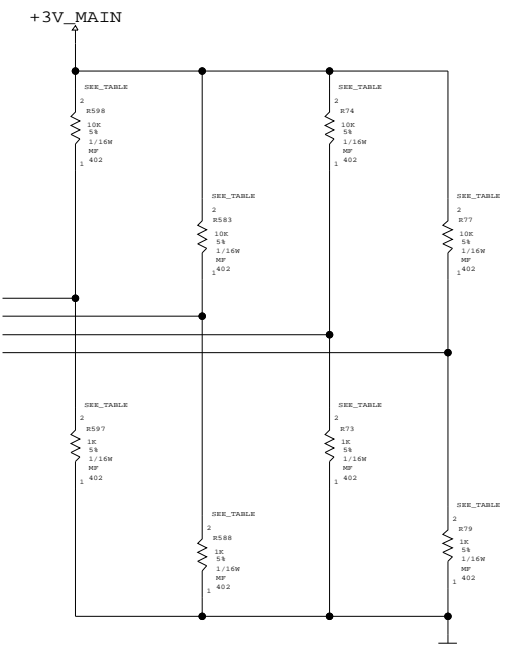
(3) PCI DEVICE ID
 [3..0] = [DVOHSYNC,VIPD3,VIPD5,VIPD4]
 0010 = 0X112 GEFORCE2 GO
 0011 = 0X113 QUADRO2 GO
 0100 = 0X114 NV17M
 0000 = 0X110 GEFORCE2GO MX (NV11B)
 * 1001 = NV18B,NV31,NV34



(5) HOST MODE
 [0] = [VIPHCTL]
 0 = PCI MODE
 * 1 = AGP MODE

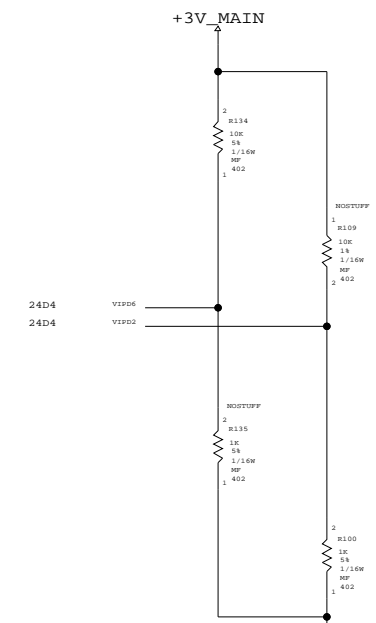


(6) AGP SIDE BAND
 [0] = [VIPD7]
 * 0 = ENABLE AGP SIDE BAND
 1 = DISABLE AGP SIDE BAND

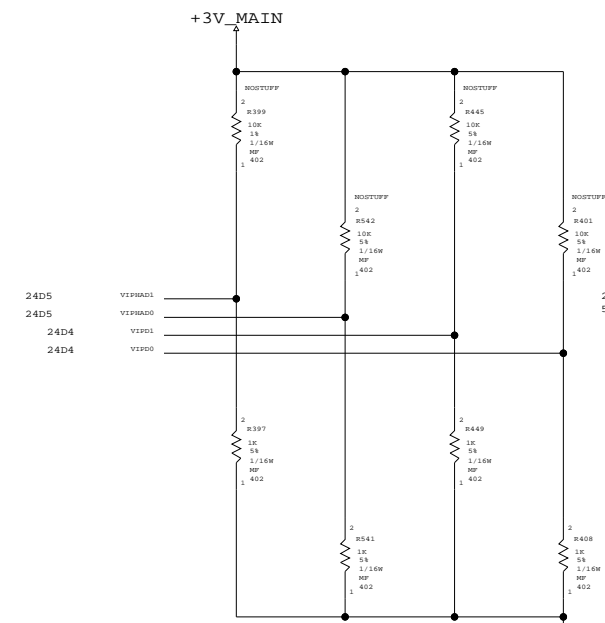


(8) FRAME BUFFER MEMORY TYPE
 [3..0] = [NV11_HSYNC,NV11_VSYNC,GPU_STRAP<3>,GPU_STRAP<2>]
 1111 = 222MHZ
 1101 = 275MHZ SAMSUNG
 1100 = 275MHZ HYNIX

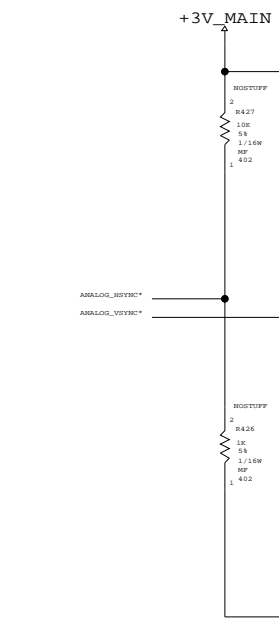
PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S1104	3	RES,10KOHM,5%,0402	R598,R583,R77		275_SAMSUNG
116S1103	1	RES,1KOHM,5%,0402	R73		275_SAMSUNG
116S1104	2	RES,10KOHM,5%,0402	R598,R583		275_HYNIX
116S1103	2	RES,1KOHM,5%,0402	R73,R79		275_HYNIX



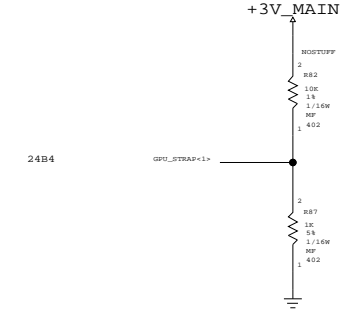
(2) CRYSTAL FREQUENCY SELECT
 [1..0] = [VIPD6,VIPD2]
 00 = 13.5MHZ
 01 = 14.38MHZ
 * 10 = 27MHZ
 11 = [UNDEFINED]



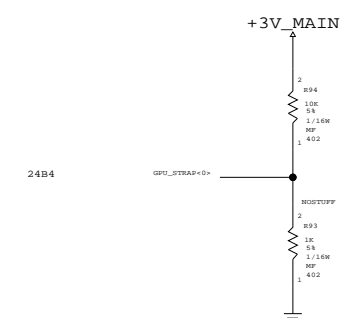
(4) USER DEFINED STRAPS
 [3..0] = [VIPHAD1,VIPHAD0,VIPD1,VIPD0]
 THESE BITS ARE UNDEFINED BUT THEY
 MUST BE KEPT LOW DURING RESET



(7) TV MODE
 [1..0] = [ANALOG_HSYNC*,ANALOG_VSYNC*]
 00 = SECAM
 01 = NTSC
 10 = PAL
 * 11 = DISABLED
 (THESE RESISTORS ARE ALL NOSTUFF)



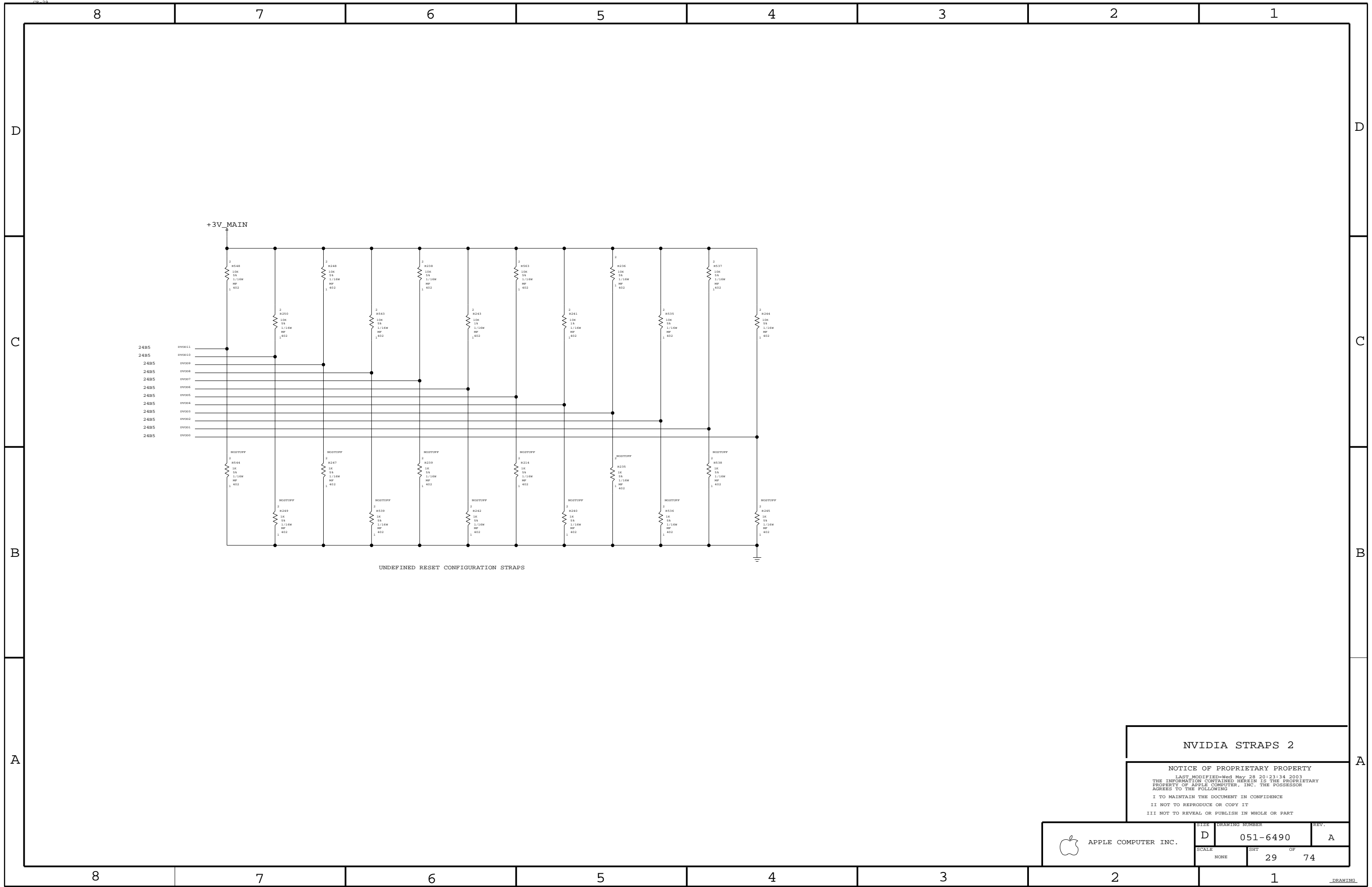
(9) SUB-VENDOR
 [0] = [GPU_STRAP<1>]
 0 = SYSTEM BIOS (VENDOR & SUBSYSTEM ID=0X0000)
 * 1 = ADAPTER CARD VGA BIOS (VENDOR & SUBSYSTEM ID=0X54-0X57)



(10) PCI ADDRESS BUS
 [0] = [GPU_STRAP<0>]
 0 = REVERSED
 * 1 = NORMAL

NVIDIA STRAPS 1
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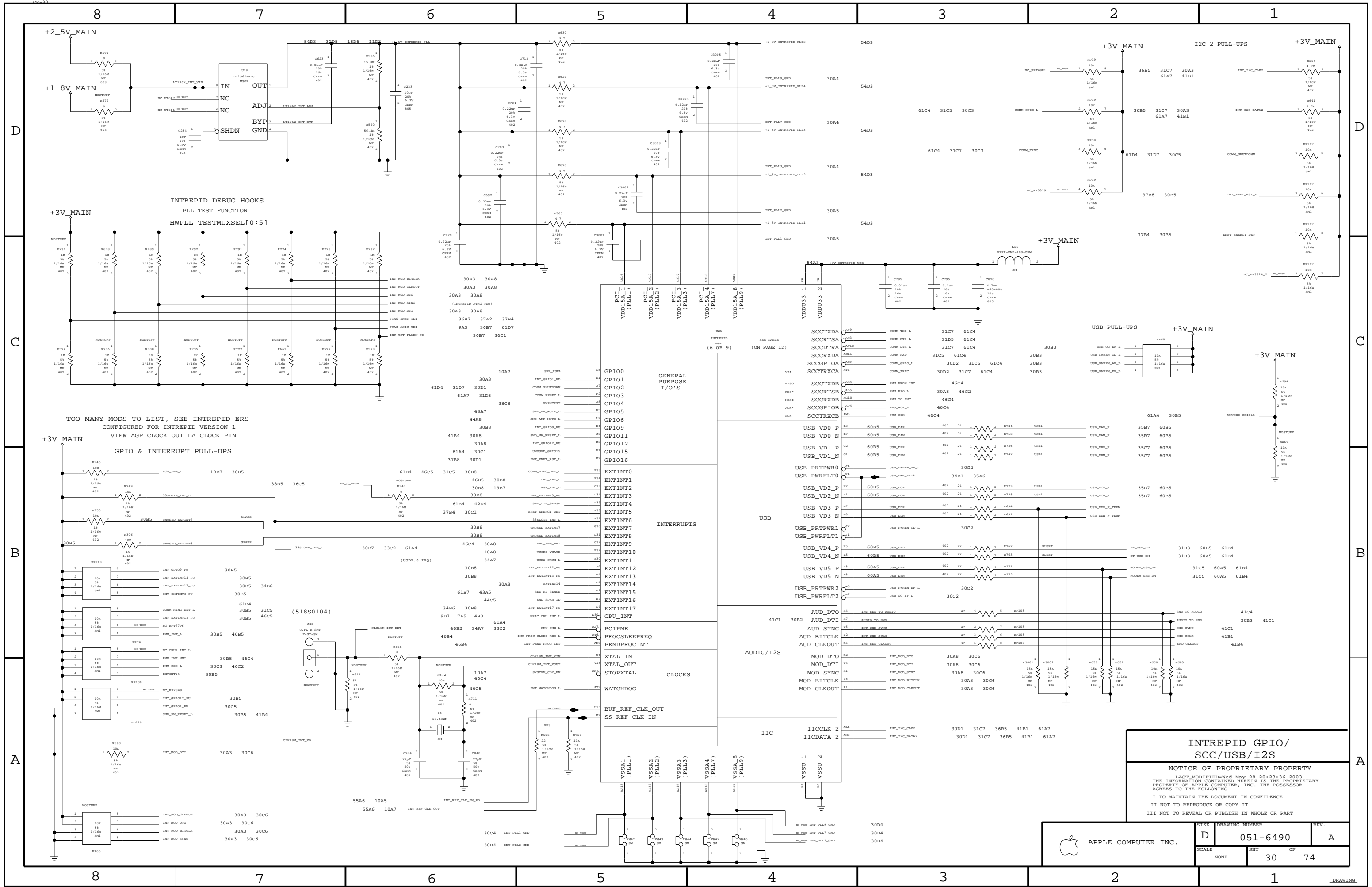
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NVIDIA STRAPS 2

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**INTREPID GPIO/
SCC/USB/I2S**

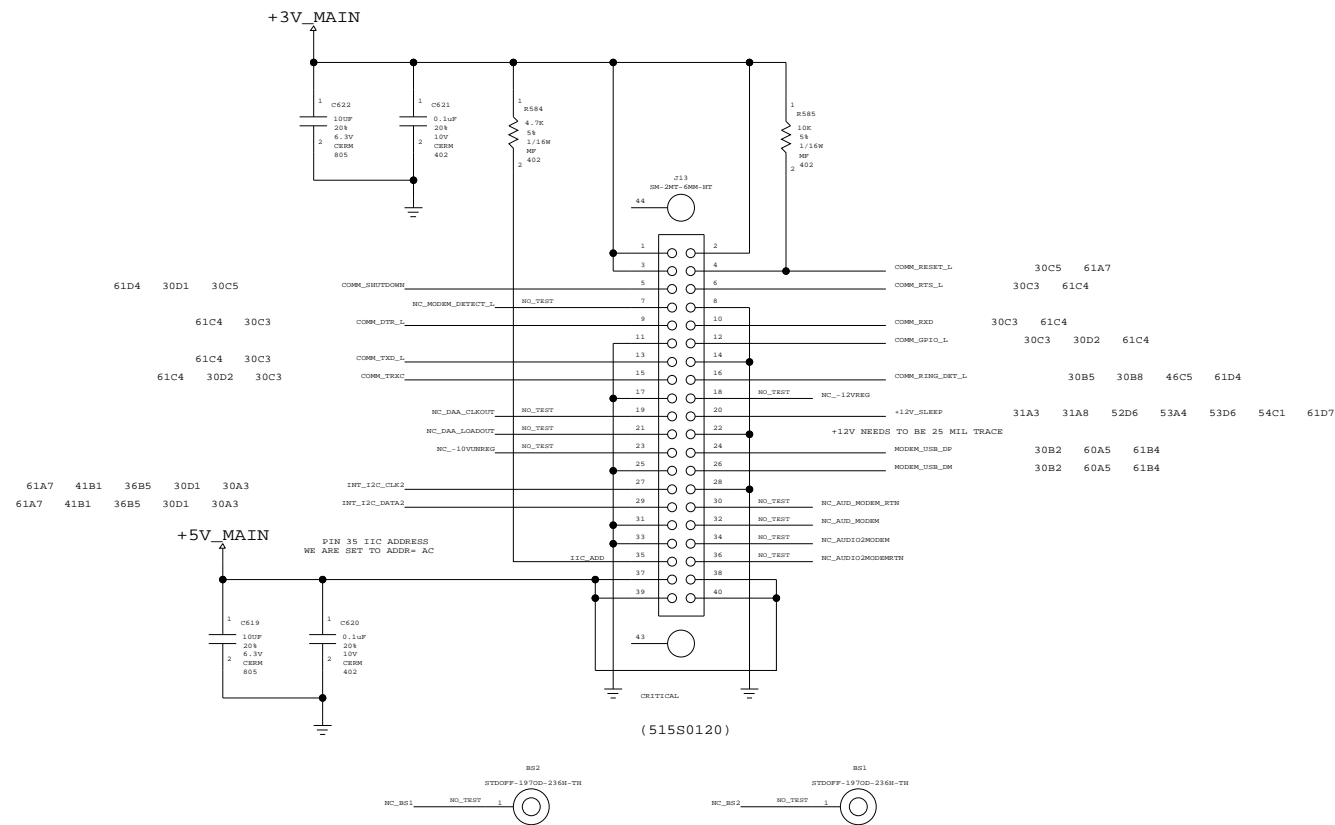
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DRAWING NUMBER		051-6490		REV.
SCALE		NONE		SHEET OF
		30		74



APPLE COMPUTER INC.

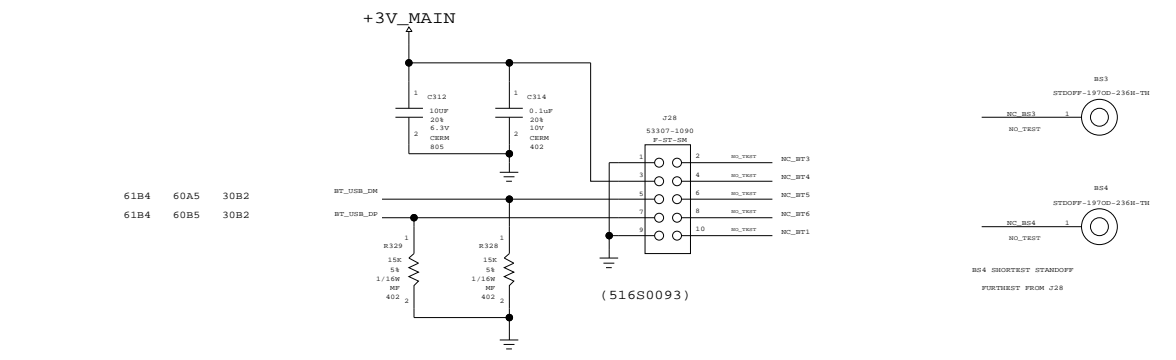
MODEM BOARD CONNECTOR
(DASH II)



MODEM STANDOFF SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
860-1034	2	STDOFF-19709-236H-TH	BS1, BS2		

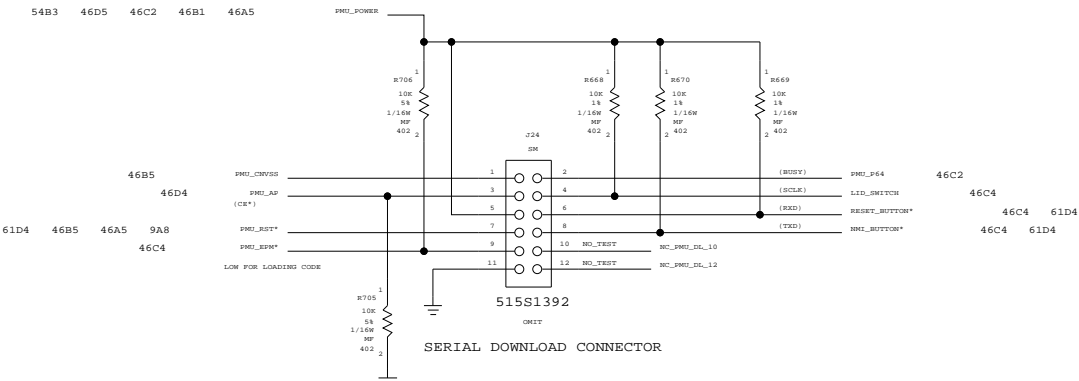
BLUETOOTH CONNECTOR



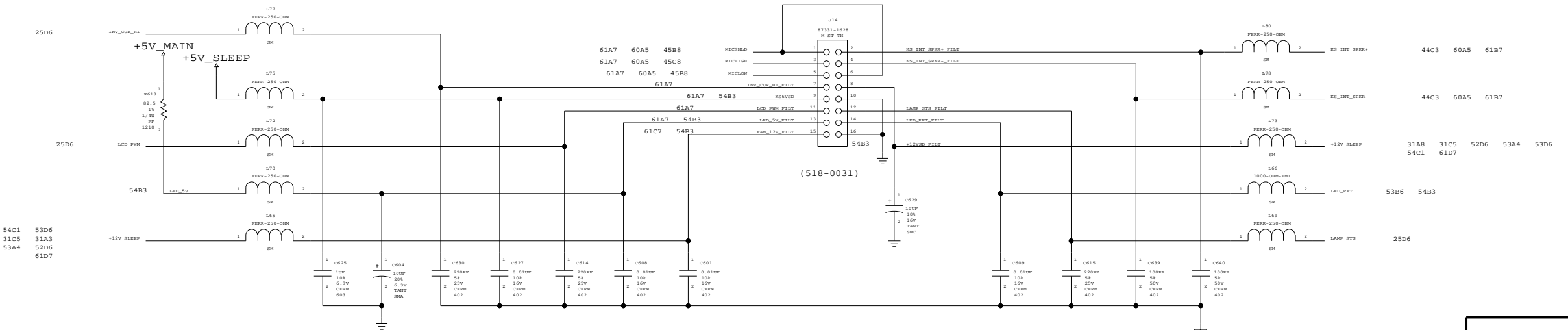
BLUETOOTH CARD MOUNTING HARDWARE SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
860-0170	1	STDOFF, BLUETOOTH, SHORT	BS4		
860-0171	1	STDOFF, BLUETOOTH, LONG	BS3		

SERIAL DOWNLOAD INTERFACE



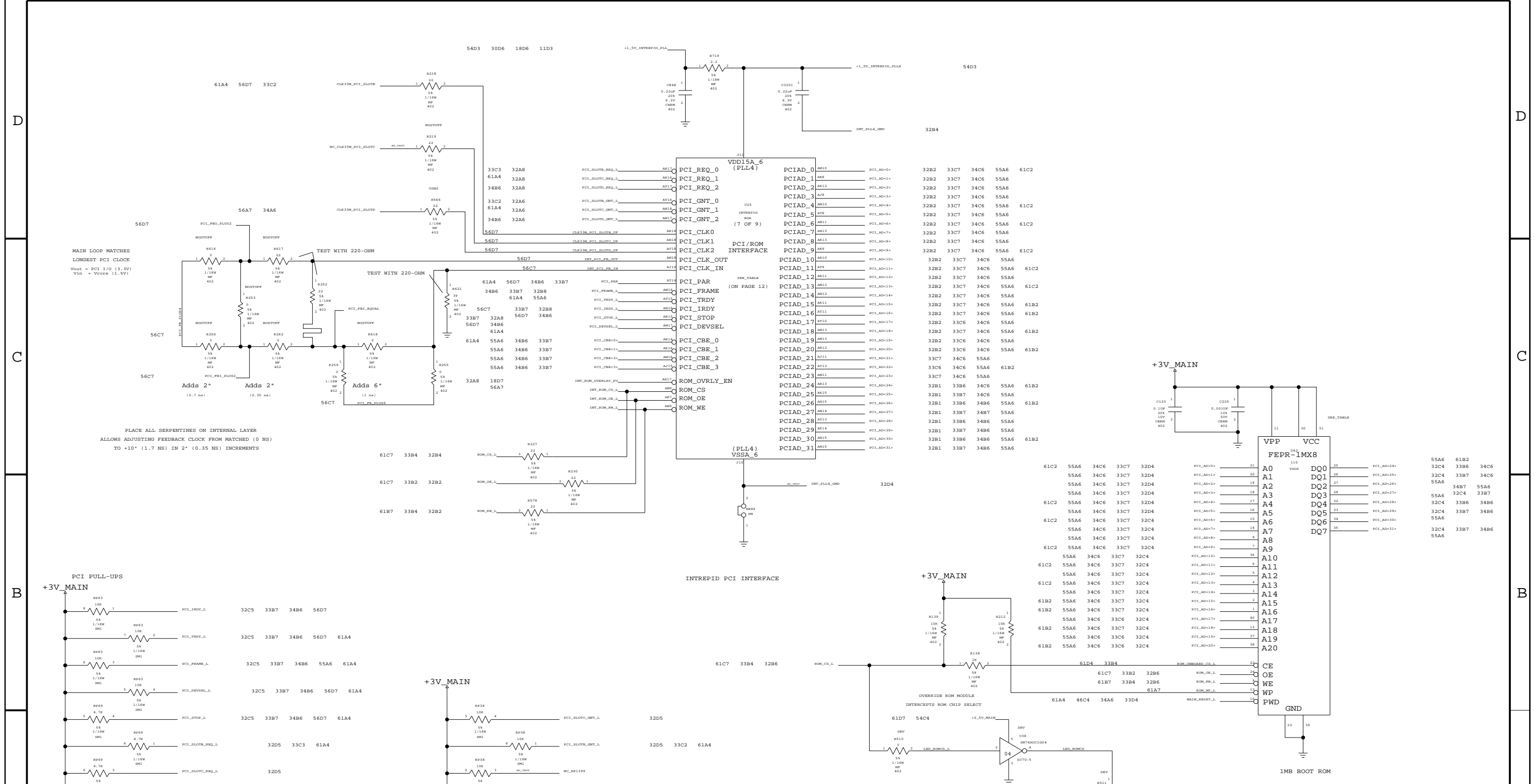
'KITCHEN SINK' CONNECTOR
(MICROPHONE, INTERNAL SPEAKER CONNECTIONS
INVERTER, LCD, LED & FAN POWER)



MODEM, BLUETOOTH,
KITCHEN SINK
& SERIAL DOWNLOAD

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SCALE	NONE	SHT	OF
		31	74



PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
341T1107	1	IC, FLASH, PROD, ROM, PRGMD	U42		
341S1169	1	IC, FEPR, FLASH ROM, PROD	U42		ROM_PRGMD PROD
009-6420	1	IC, FEPR, FLASH ROM, PROD	U42		ROM_IMG PROD
341S1225	1	IC, FLASH, BOOT ROM, Q26, 4.5.8B2	U42		ROM_PRGMD PROD
009-6076	1	CODE, BOOTROM, Q26, DVT, 4.5.8B2	U42		ROM_IMG PROD
341S1272	1	IC, FLASH, BOOT ROM, Q26B	U42		ROM_PRGMD PROD
009-6068	1	CODE, BOOTROM, Q26B, DVT, 4.6.7B1	U42		ROM_IMG PROD
335S0350	1	IC, FLASH ROM, 1MB, BLANK	U42		OMIT

INTREPID PCI & BOOT ROM

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SCALE: NONE SHEET: 32 OF 74

D

D

C

C

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B

A

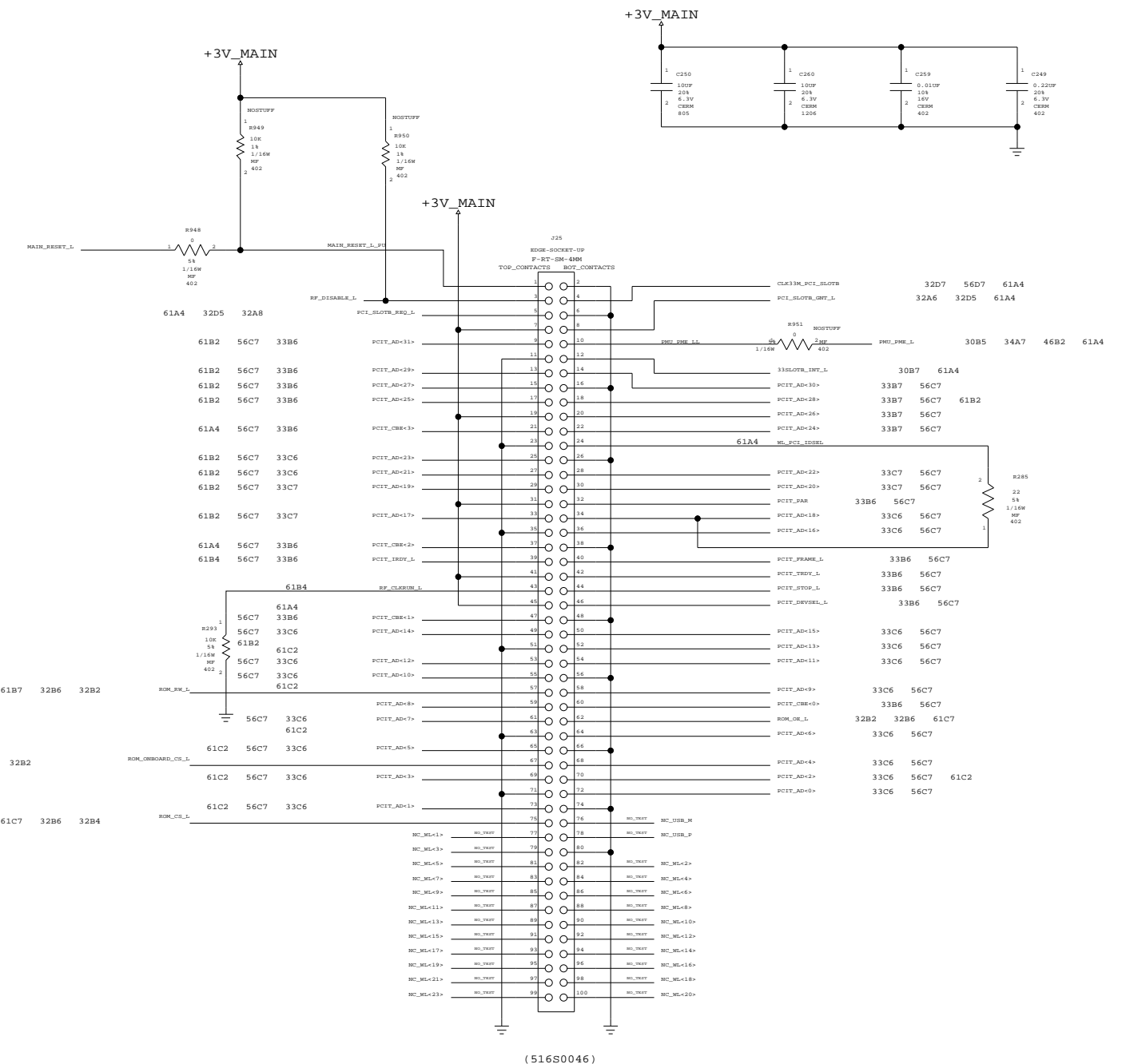
A

DRAWING

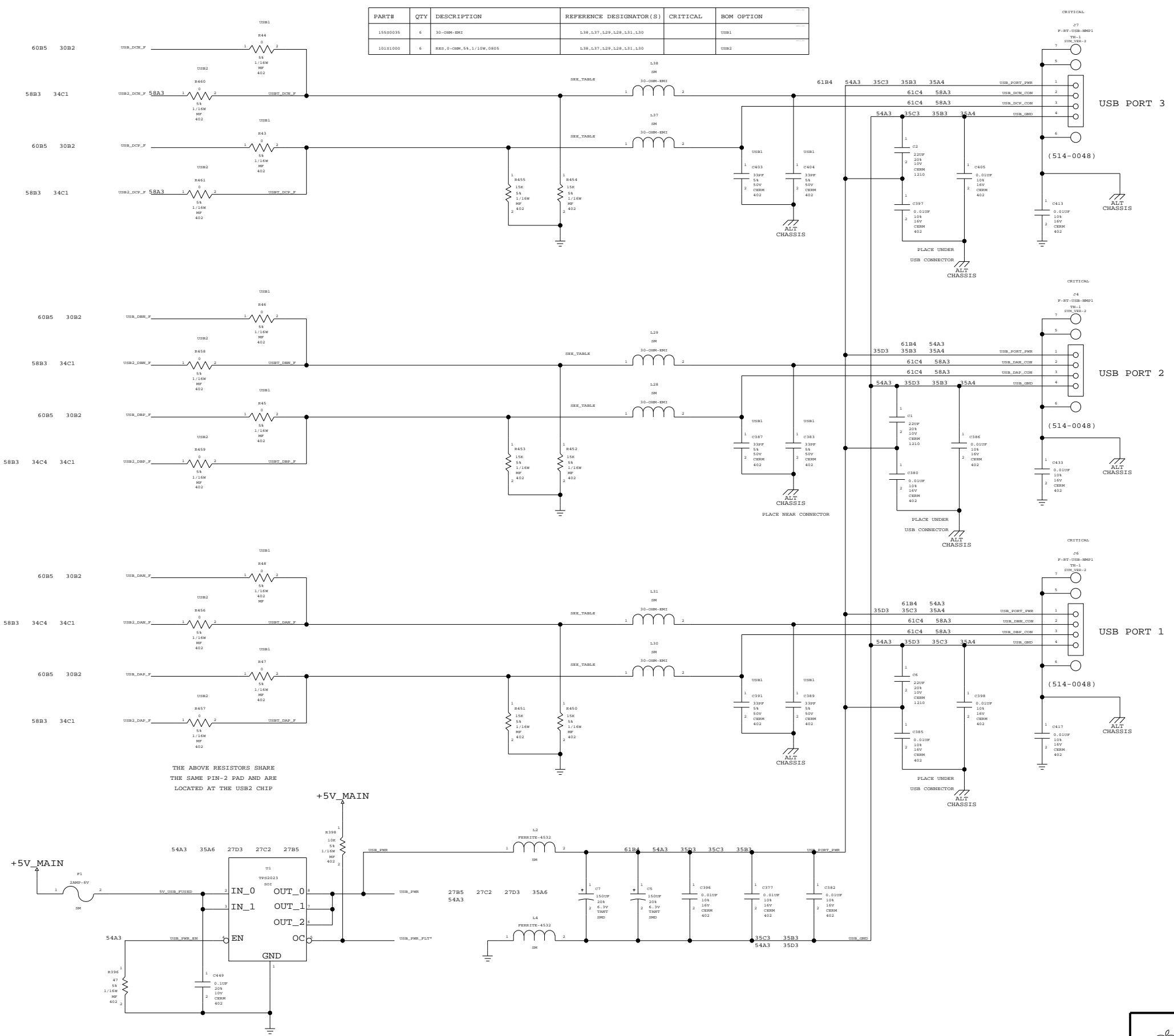
PLACE RP'S NEAR WIRELESS CONNECTOR

61C2	55A6	34C6	32D4	32B2	PCI_AD<0>	1	8P77	8	PCI_AD<0>	33B2	56C7
	55A6	34C6	32D4	32B2	PCI_AD<1>	2	33	7	PCI_AD<1>	33B3	56C7
	55A6	34C6	32D4	32B2	PCI_AD<2>	3	5A	6	NO_TEST	33B2	56C7
	55A6	34C6	32D4	32B2	PCI_AD<3>	4	5M1	5	PCI_AD<3>	33B3	56C7
61C2	55A6	34C6	32D4	32B2	PCI_AD<4>	1	8P78	8	PCI_AD<4>	33B2	56C7
	55A6	34C6	32D4	32B2	PCI_AD<5>	2	33	7	PCI_AD<5>	33B3	56C7
61C2	55A6	34C6	32C4	32B2	PCI_AD<6>	3	5A	6	NO_TEST	33B2	56C7
	55A6	34C6	32C4	32B2	PCI_AD<7>	4	5M1	5	PCI_AD<7>	33B3	56C7
	55A6	34C6	32C4	32B2	PCI_AD<8>	1	8P79	8	PCI_AD<8>	33B3	56C7
61C2	55A6	34C6	32C4	32B2	PCI_AD<9>	2	33	7	NO_TEST	33B2	56C7
	55A6	34C6	32C4	32B2	PCI_AD<10>	3	5A	6	PCI_AD<10>	33B3	56C7
61C2	55A6	34C6	32C4	32B2	PCI_AD<11>	4	5M1	5	NO_TEST	33B2	56C7
	55A6	34C6	32C4	32B2	PCI_AD<12>	1	8P7A	8	PCI_AD<12>	33B3	56C7
61C2	55A6	34C6	32C4	32B2	PCI_AD<13>	2	33	7	NO_TEST	33B2	56C7
	55A6	34C6	32C4	32B2	PCI_AD<14>	3	5A	6	PCI_AD<14>	33C3	56C7
61B2	55A6	34C6	32C4	32B2	PCI_AD<15>	4	5M1	5	NO_TEST	33C2	56C7
	55A6	34C6	32C4	32B2	PCI_AD<16>	1	8P7B	8	PCI_AD<16>	33C2	56C7
61B2	55A6	34C6	32C4	32B2	PCI_AD<17>	2	33	7	NO_TEST	32B2	32C4
	55A6	34C6	32C4	32B2	PCI_AD<18>	3	5A	6	PCI_AD<18>	33C2	56C7
61B2	55A6	34C6	32C4	32B2	PCI_AD<19>	4	5M1	5	NO_TEST	32B2	32C4
	55A6	34C6	32C4	32B2	PCI_AD<20>	1	8P7C	8	PCI_AD<20>	33C3	56C7
	55A6	34C6	32C4	32B2	PCI_AD<21>	2	33	7	NO_TEST	32C4	34C6
	56C7	33C2			PCI_AD<22>	3	5A	6	PCI_AD<22>	33C3	56C7
	56C7	33C2			PCI_AD<23>	4	5M1	5	NO_TEST	32B2	32C4
55A6	34B7	32C4	32B1		PCI_AD<24>	1	8P7D	8	PCI_AD<24>	33C3	56C7
55A6	34C6	32C4	32B1		PCI_AD<25>	2	33	7	NO_TEST	33C3	56C7
	56C7	33C2			PCI_AD<26>	3	5A	6	PCI_AD<26>	32B1	32C4
	56C7	33C2			PCI_AD<27>	4	5M1	5	NO_TEST	32B1	32C4
61B2	56C7	33C2			PCI_AD<28>	1	8P7E	8	PCI_AD<28>	32B1	32C4
	56C7	33C2			PCI_AD<29>	2	33	7	NO_TEST	32B1	32C4
	55A6	34B6	32C4	32B1	PCI_AD<30>	3	5A	6	PCI_AD<30>	33C3	56C7
	55A6	34B6	32C4	32B1	PCI_AD<31>	4	5M1	5	NO_TEST	33C3	56C7
	55A6	34B6	32C4	32B1	PCI_AD<32>	1	8P7F	8	PCI_AD<32>	33C3	56C7
61A4	55A6	34B6	32C5	32B8	PCI_PAR	1	8P7G	8	PCI_PAR	33C2	56C7
61A4	56D7	34B6	32C5	32B8	PCI_FRAME_L	2	8P61	7	NO_TEST	33C2	56C7
56D7	34B6	32C5	32B8		PCI_TRDY_L	3	33	6	NO_TEST	33C2	56C7
61A4	56D7	34B6	32C5	32A8	PCI_STBY_L	4	5A	5	NO_TEST	33C3	56C7
61A4	56D7	34B6	32C5	32A8	PCI_STOP_L	1	8P62	8	PCI_STOP_L	33C2	56C7
61A4	56D7	34B6	32C5	32A8	PCI_DEVSEL_L	2	33	7	NO_TEST	33C2	56C7
	55A6	34B6	32C5		PCI_CBE<1>	3	5A	6	PCI_CBE<1>	33C3	56C7
	55A6	34B6	32C5		PCI_CBE<0>	4	5M1	5	NO_TEST	33B2	56C7
	55A6	34B6	32C5		PCI_CBE<2>	1	8P63	8	PCI_CBE<2>	33C3	56C7
	55A6	34B6	32C5		PCI_CBE<3>	2	33	7	NO_TEST	33C3	56C7
					NO_PCB0	NO_TEST	3	5	NO_TEST		
					NO_PCB1	NO_TEST	4	5M1	5	NO_TEST	

61A4 46C4 34A6 32A2



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
1550035	4	30-OHM-SMT	L38,L37,L29,L28,L31,L30		USB1
10151000	4	RES,0-OHM,5%,1/10W,0805	L38,L37,L29,L28,L31,L30		USB2

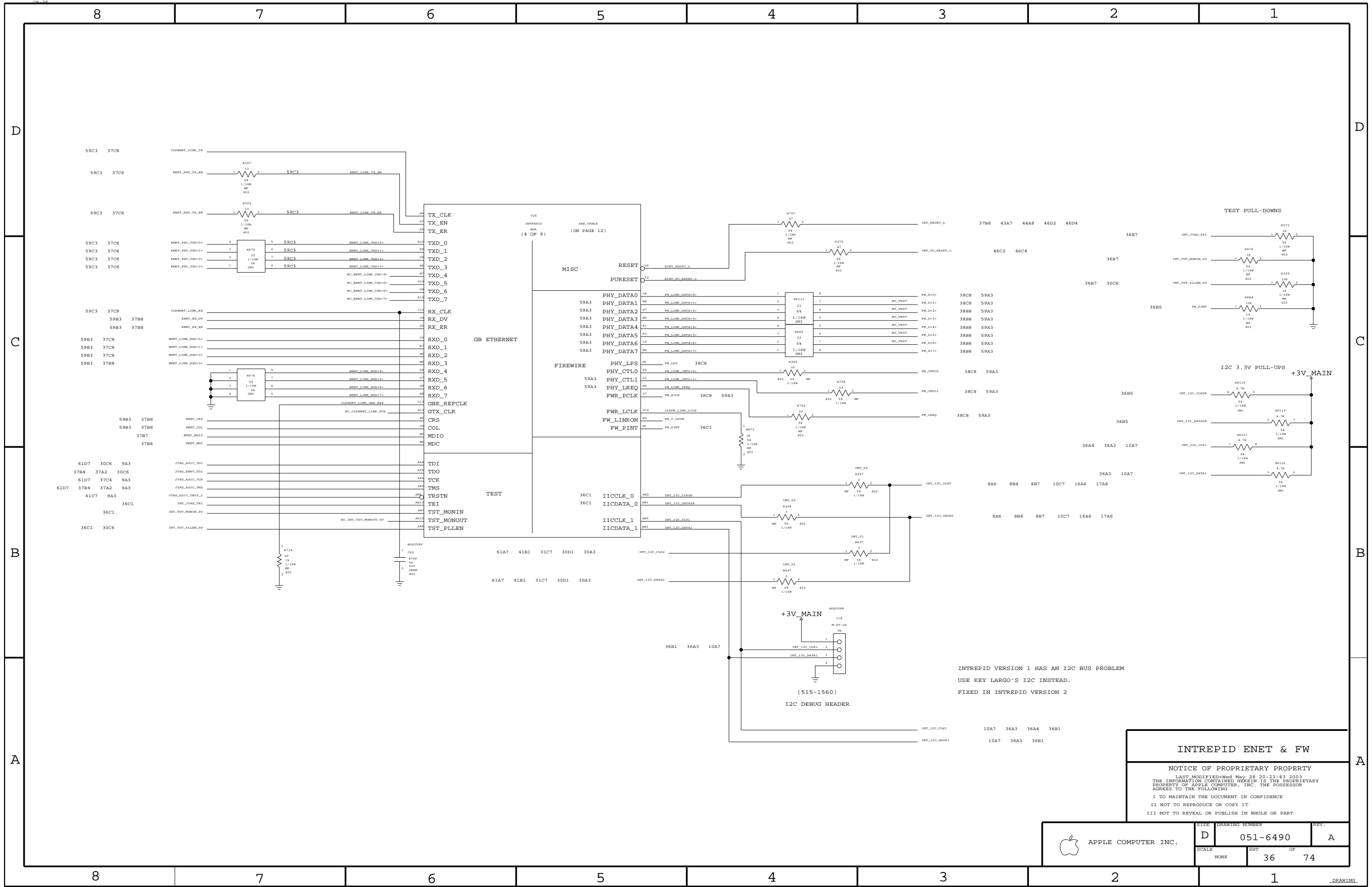


THE ABOVE RESISTORS SHARE THE SAME PIN-2 PAD AND ARE LOCATED AT THE USB2 CHIP

USB CONNS & PWR

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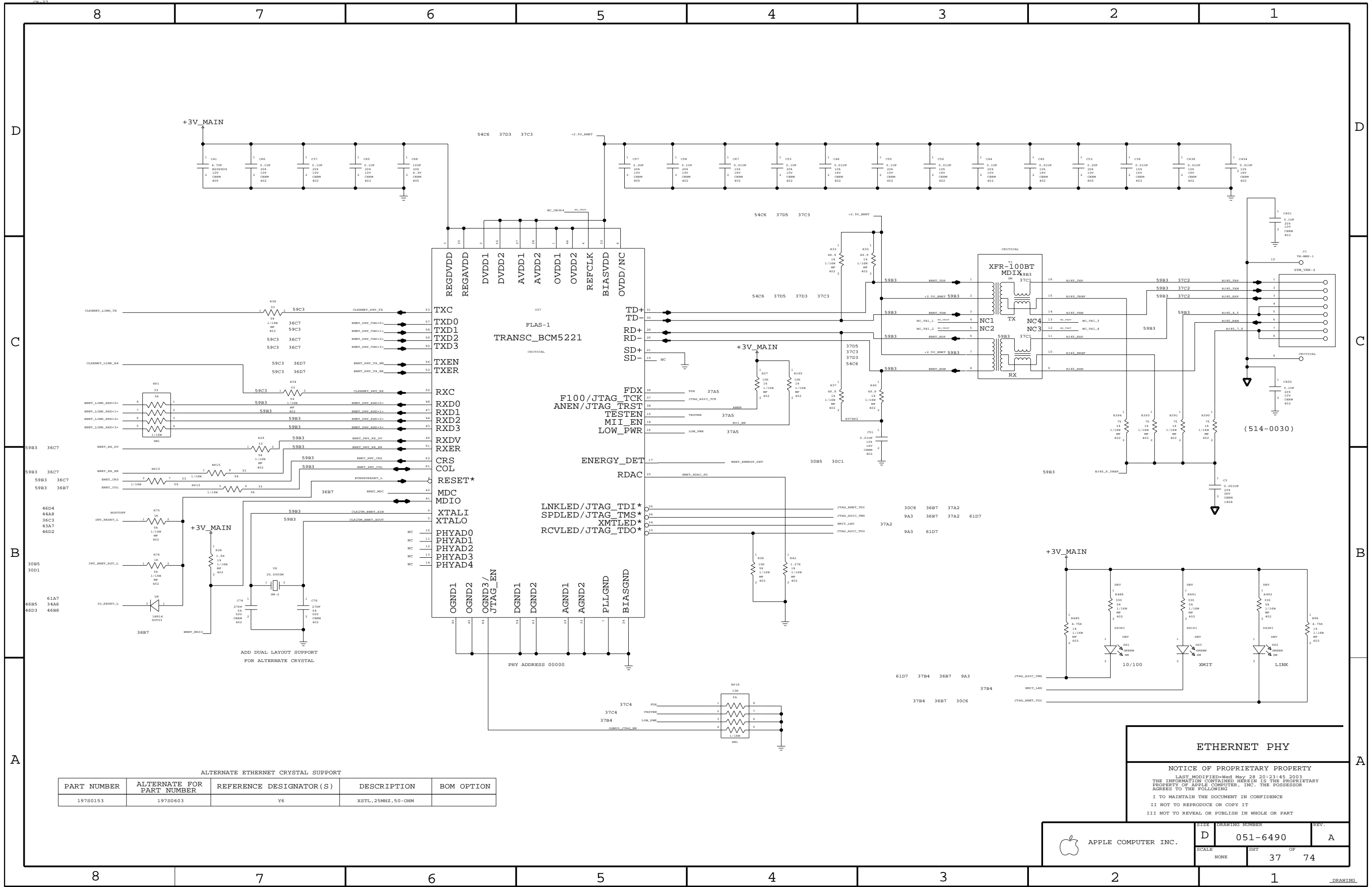
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NONE	35	74	



INTREPID ENET & FW

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ALTERNATE ETHERNET CRYSTAL SUPPORT

PART NUMBER	ALTERNATE FOR PART NUMBER	REFERENCE DESIGNATOR(S)	DESCRIPTION	BOM OPTION
197S0153	197S0603	Y6	XSTL, 25MHZ, 50-OHM	

ETHERNET PHY

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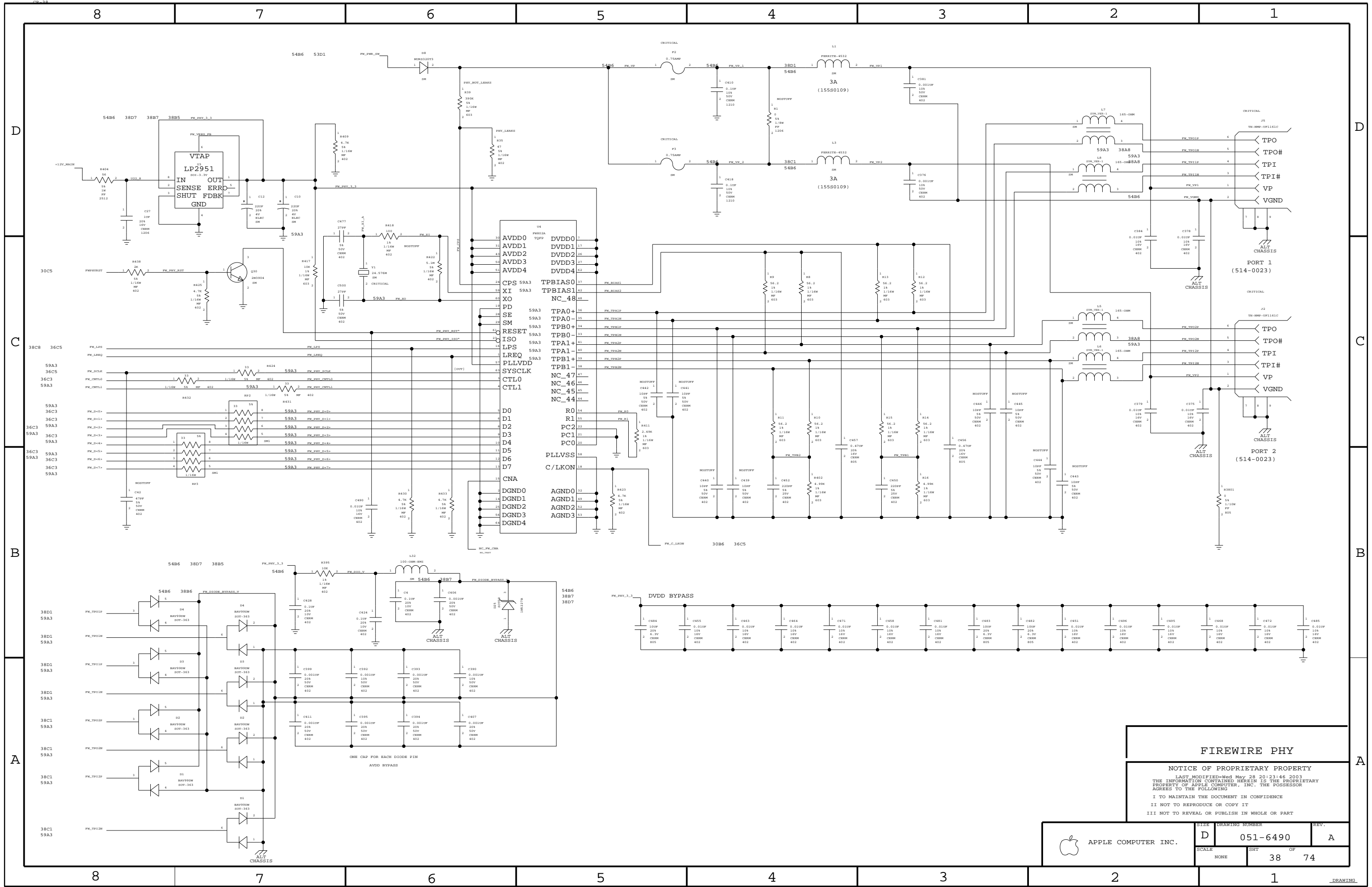
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SCALE: NONE SHEET: **37** OF **74**



FIREWIRE PHY

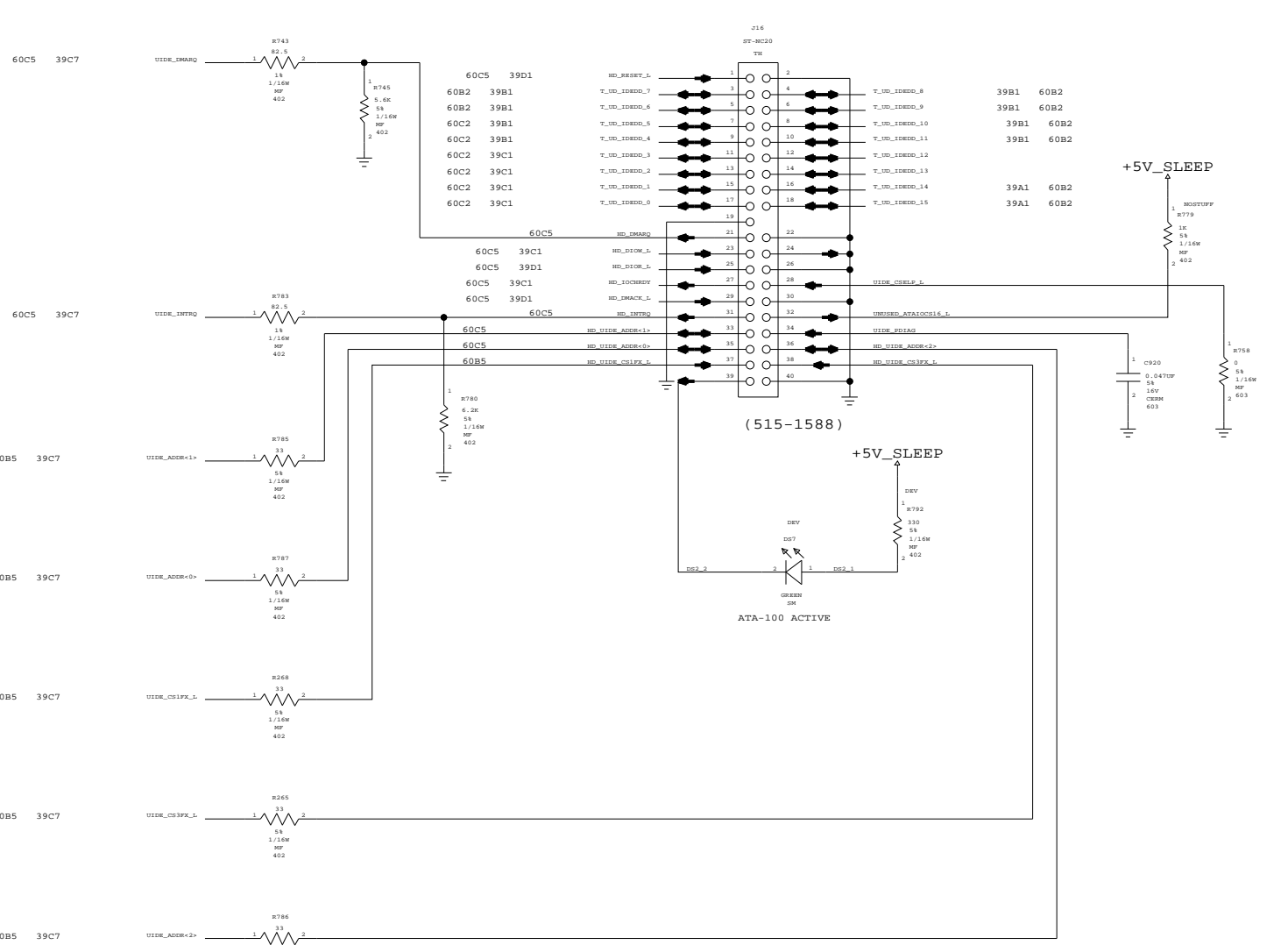
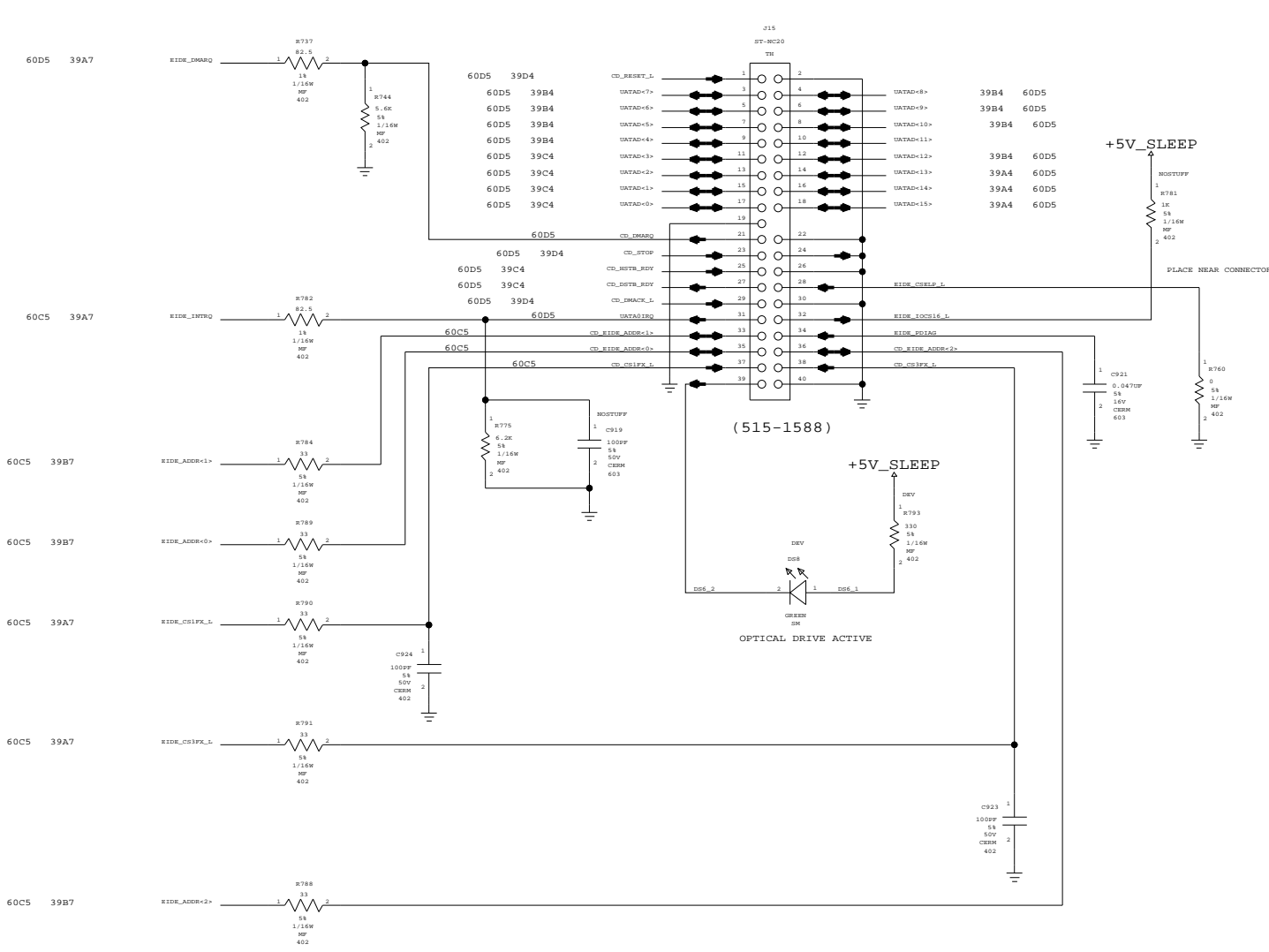
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OPTICAL DRIVE INTERFACE

ATA-100 INTERFACE



CD/HD CONS

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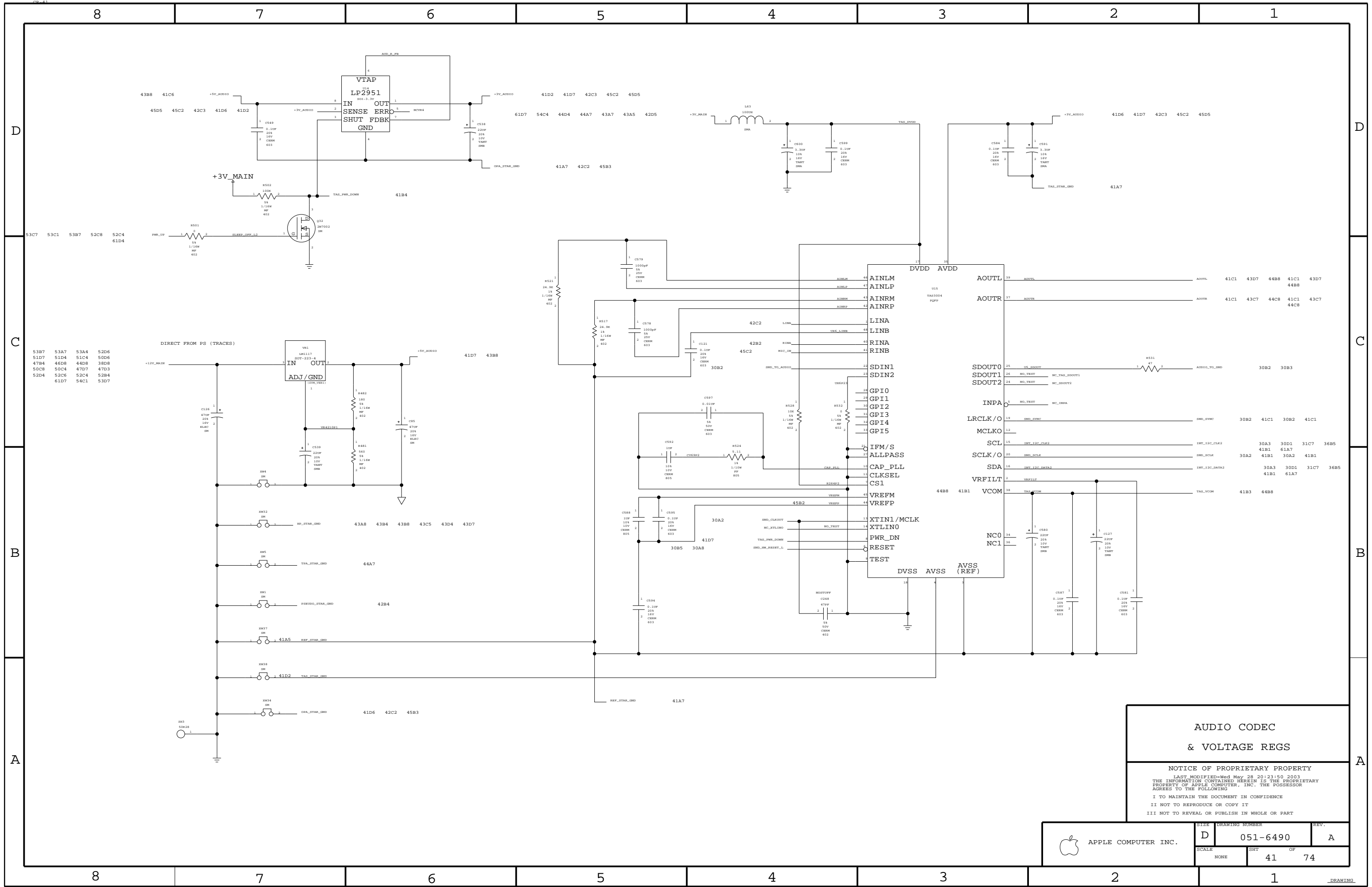
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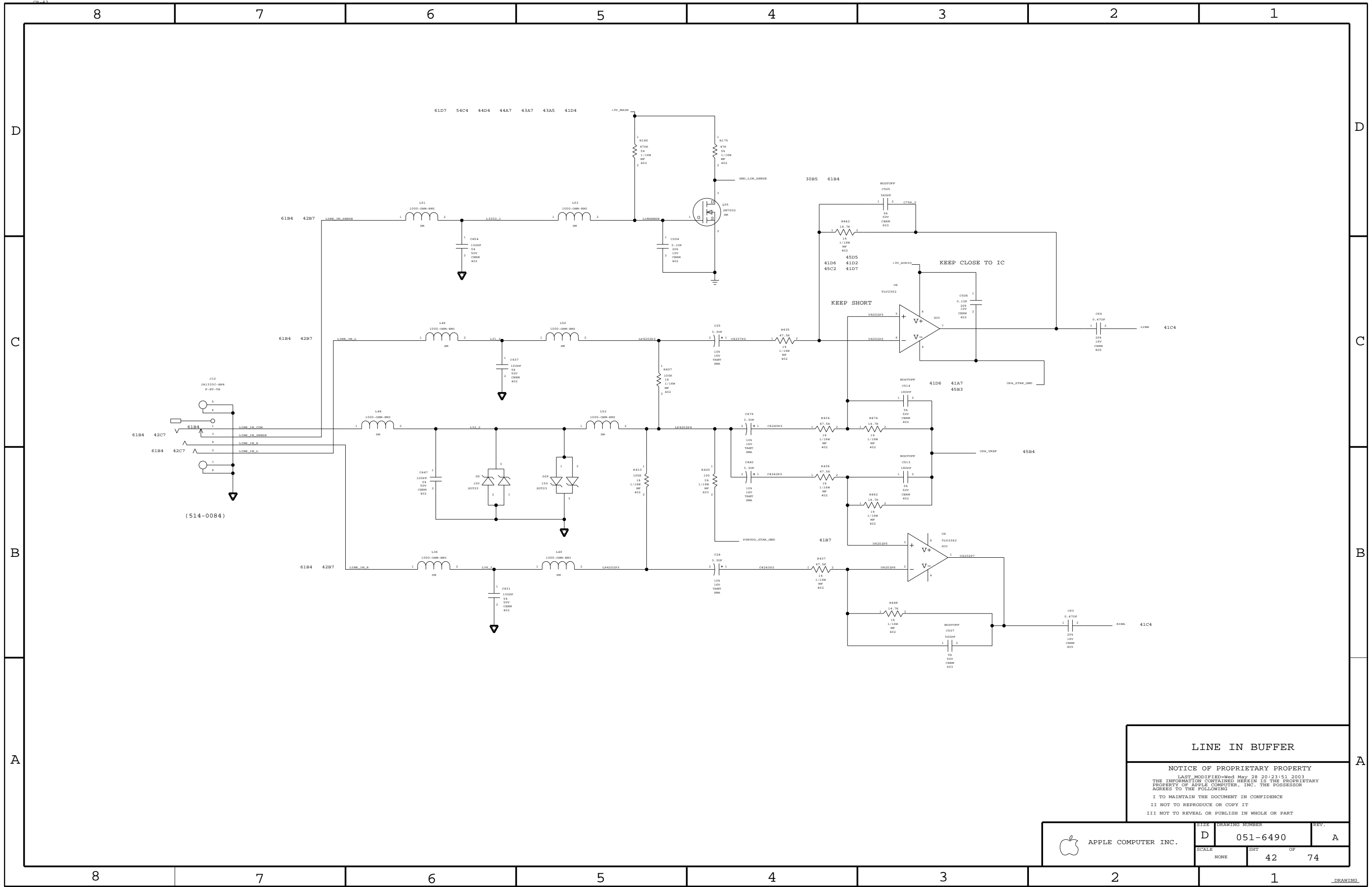
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SCALE	SHT		OF
NONE	40		74



**AUDIO CODEC
& VOLTAGE REGS**

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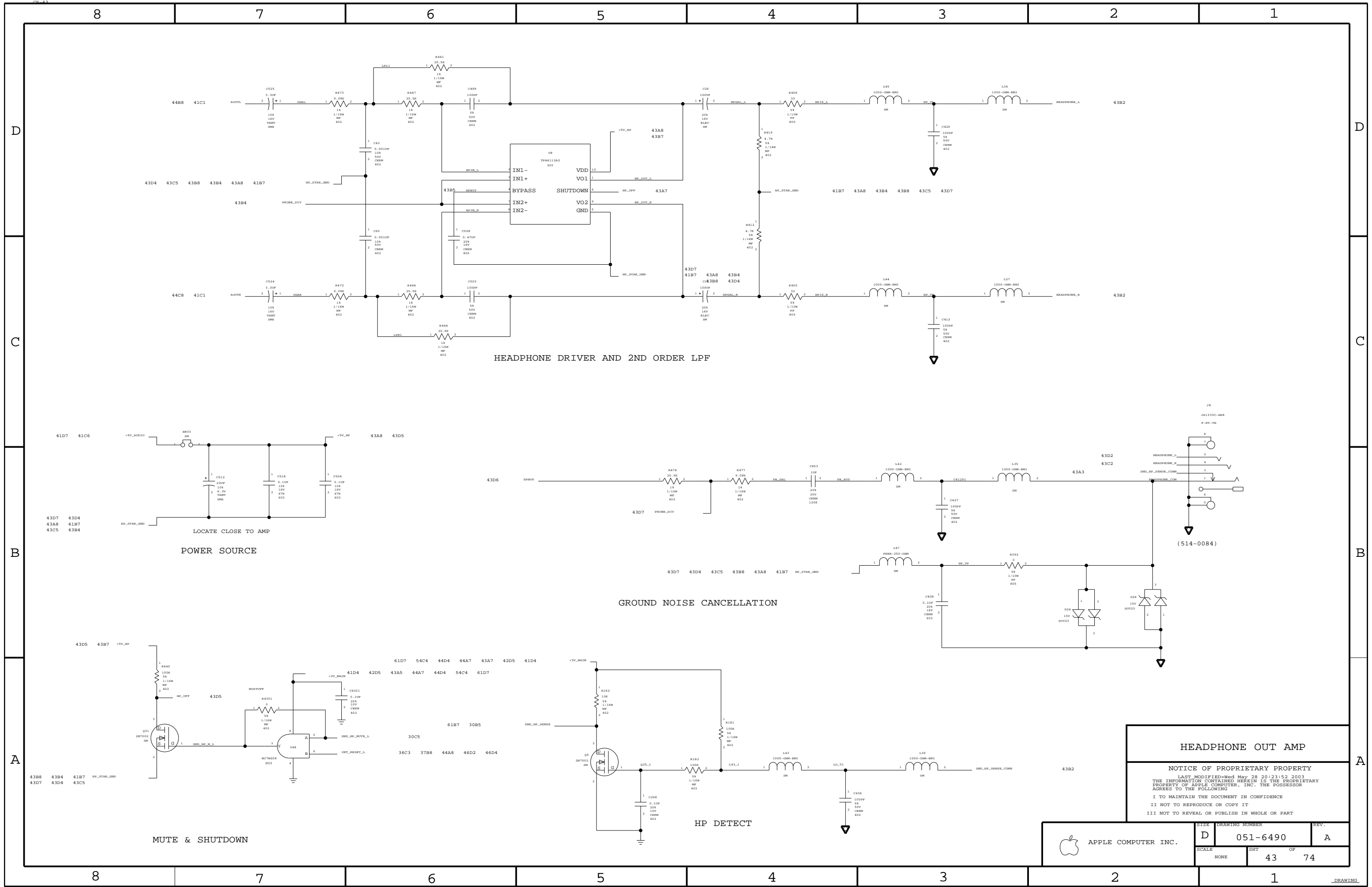
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LINE IN BUFFER

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NONE	42	74	



HEADPHONE DRIVER AND 2ND ORDER LPF

POWER SOURCE

GROUND NOISE CANCELLATION

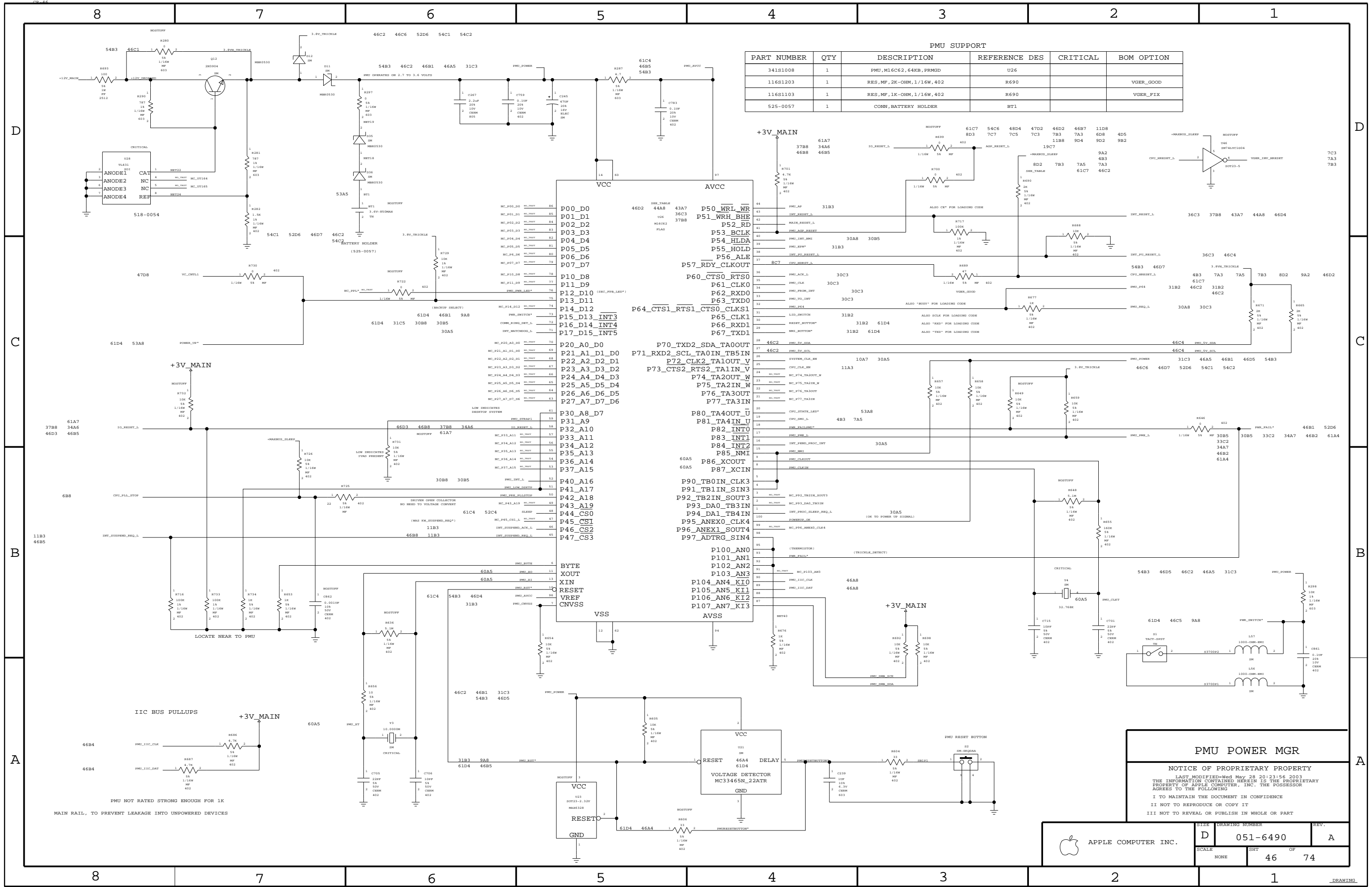
MUTE & SHUTDOWN

HP DETECT

HEADPHONE OUT AMP

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PMU SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
341S1008	1	PMU, M16C62, 64KB, PRMGD	U26		
116S1203	1	RES, MF, 2K-OHM, 1/16W, 402	R690		VGER_GOOD
116S1103	1	RES, MF, 1K-OHM, 1/16W, 402	R690		VGER_FIX
525-0057	1	CONN, BATTERY HOLDER	BT1		

PMU POWER MGR

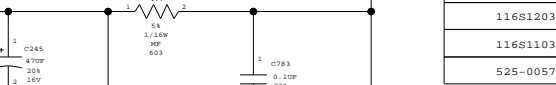
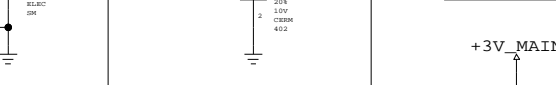
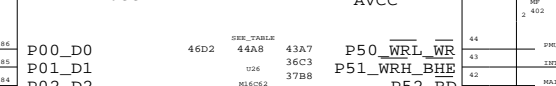
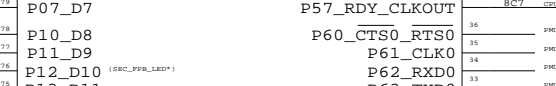
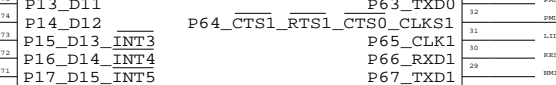
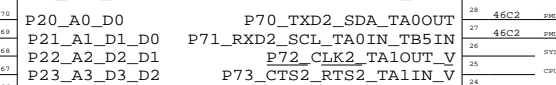
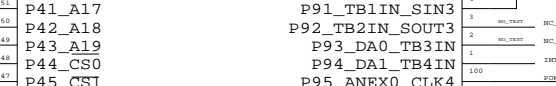
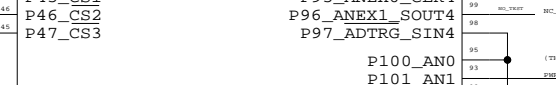
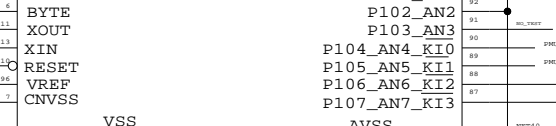
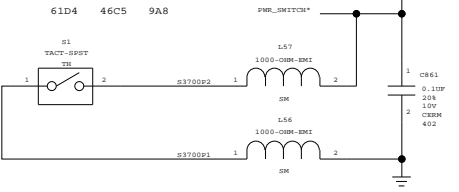
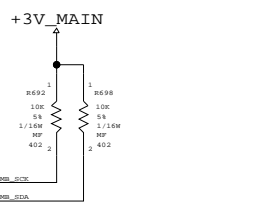
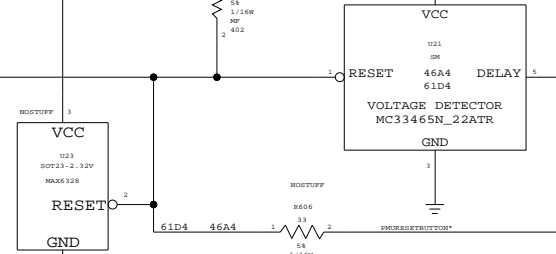
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NONE	46	74	

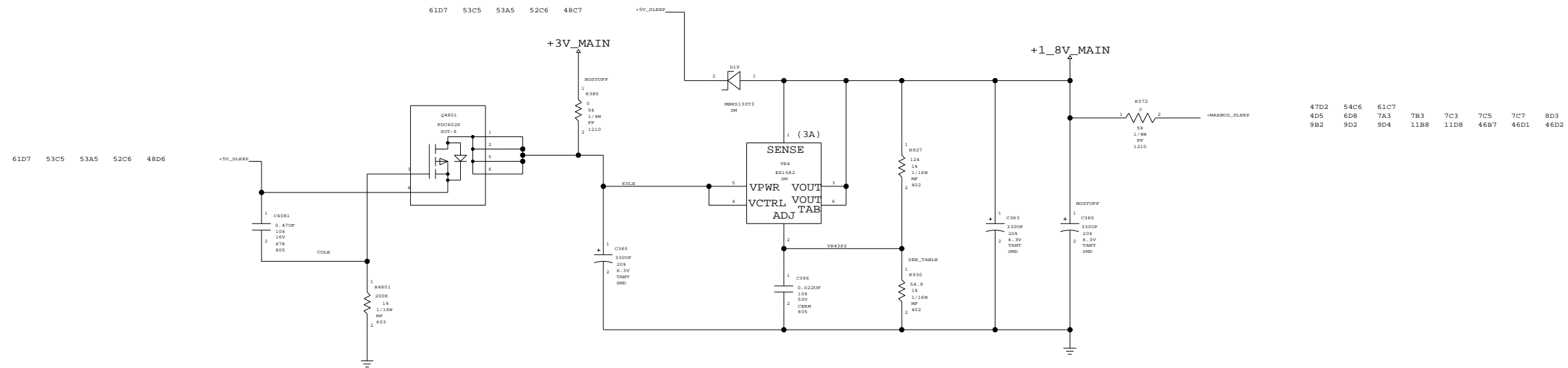
PMU NOT RATED STRONG ENOUGH FOR 1K
 MAIN RAIL, TO PREVENT LEAKAGE INTO UNPOWERED DEVICES

IIC BUS PULLUPS

LOCATE NEAR TO PMU



INTREPID MAXBUS & CPU OVDD POWER CONVERTER
(OFF DURING SLEEP)

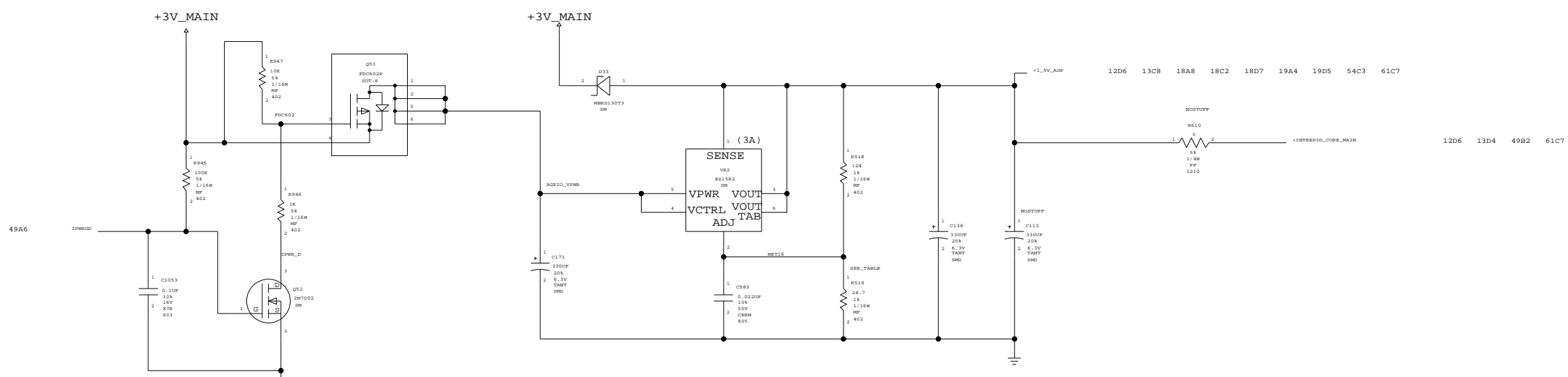


- 47D2 54C6 61C7
- 4D5 6D8 7A3 7B3 7C3 7C5 7C7 8D3
- 9B2 9D2 9D4 11B8 11D8 46B7 46D1 46D2

MAXBUS I/O SUPPLY SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
11482491	1	RES, FF, 24.9-OHM, 1%	R930		MAXIO_1'50V
11483481	1	RES, FF, 34.8-OHM, 1%	R930		MAXIO_1'65V
11484421	1	RES, FF, 44.2-OHM, 1%	R930		MAXIO_1'70V
11485491	1	RES, FF, 54.9-OHM, 1%	R930		MAXIO_1'80V

AGP I/O POWER CONVERTER



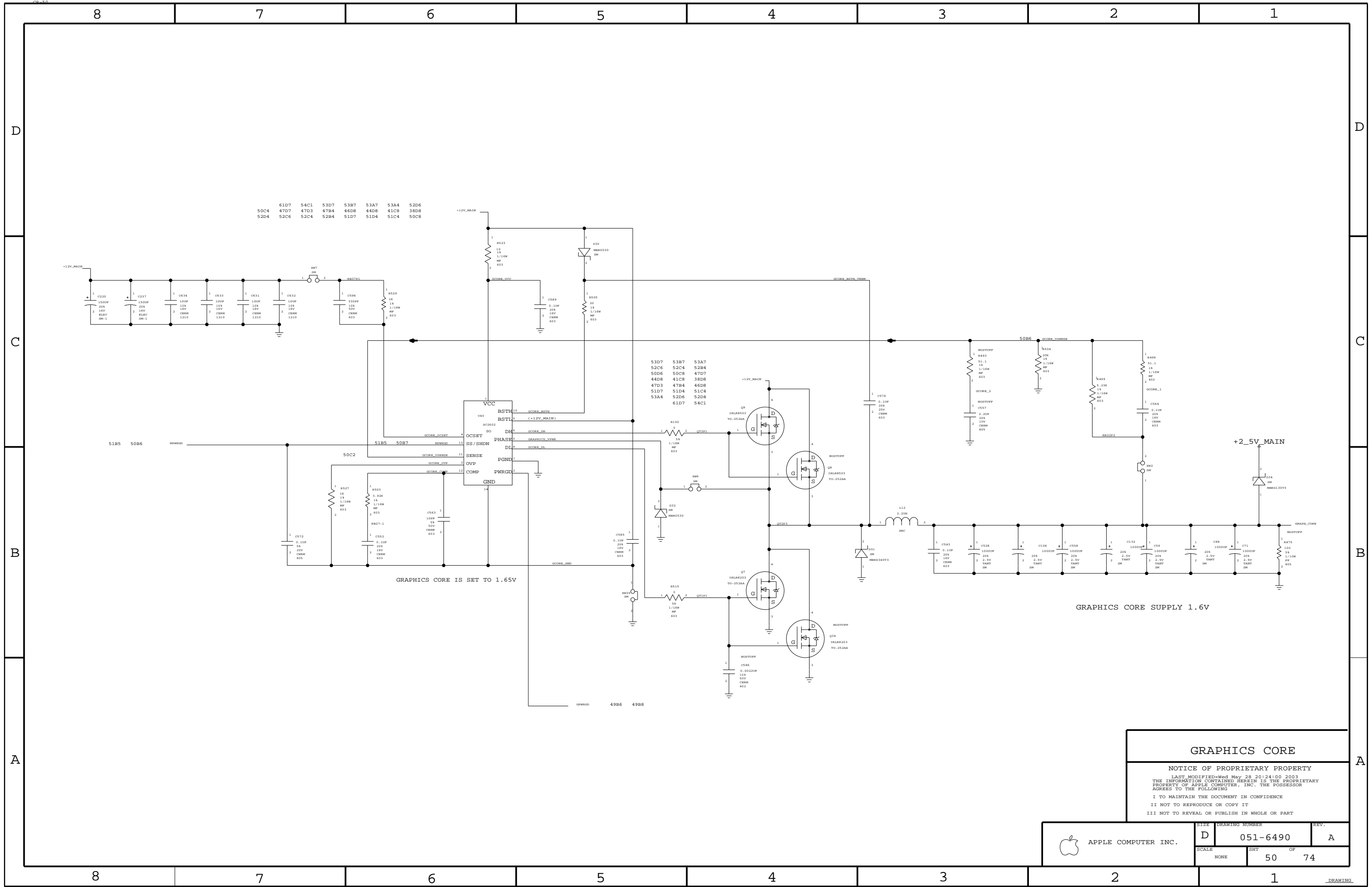
AGP I/O SUPPLY SUPPORT

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
11482491	1	RES, FF, 24.9-OHM, 1%	R519		AGPIO_1'50V
11483481	1	RES, FF, 34.8-OHM, 1%	R519		AGPIO_1'65V
11484421	1	RES, FF, 44.2-OHM, 1%	R519		AGPIO_1'70V
11485491	1	RES, FF, 54.9-OHM, 1%	R519		AGPIO_1'80V

CPU & AGP VREGS

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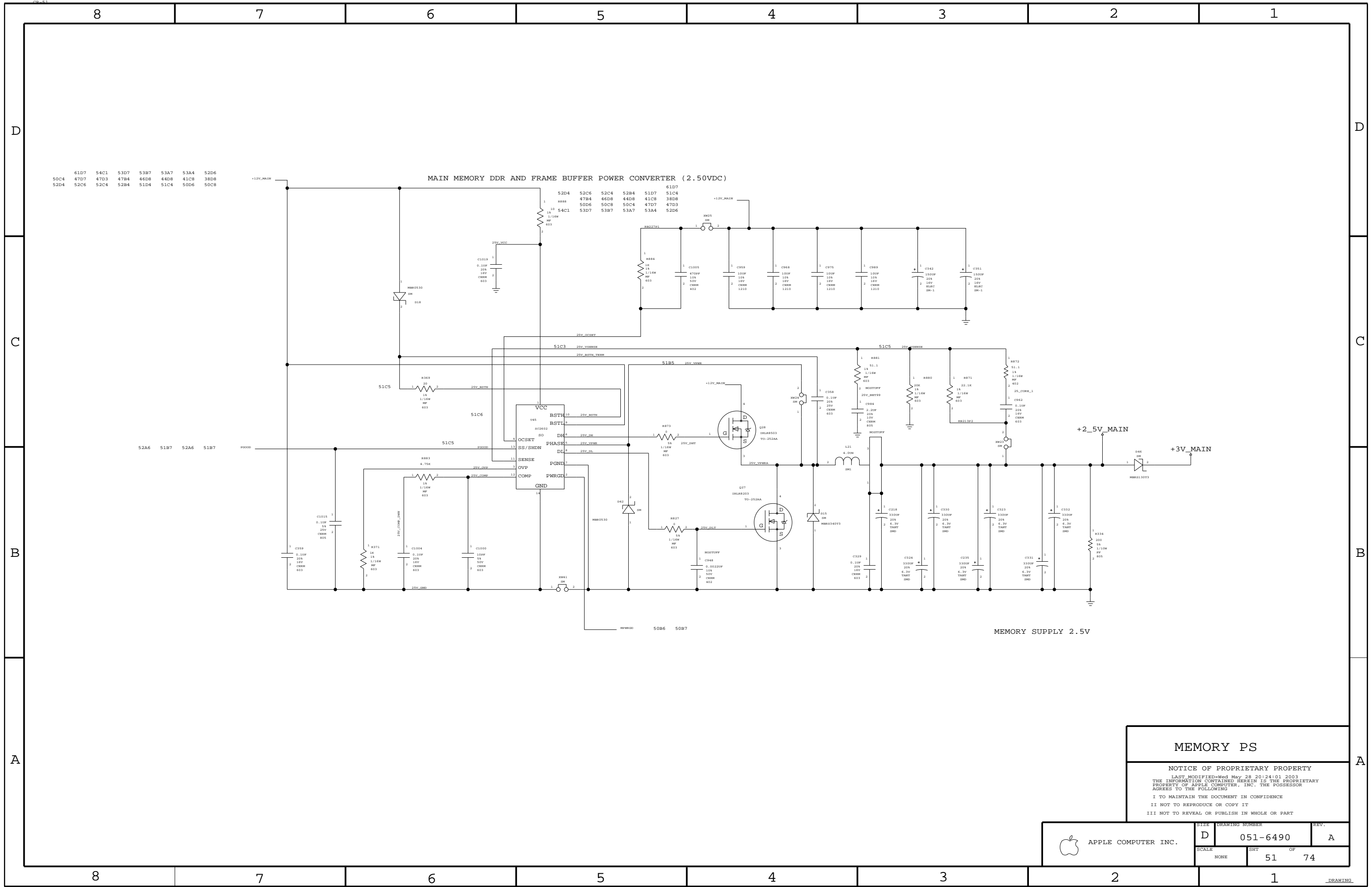


61D7 54C1 53D7 53B7 53A7 53A4 52D6
 50C4 47D3 47B4 46D8 44D8 41C8 38D8
 52D4 52C6 52C4 52B4 51D7 51D4 51C4 50C8

53D7 53B7 53A7
 52C6 52C4 52B4
 50D6 50C8 47D7
 44D8 41C8 38D8
 47D3 47B4 46D8
 51D7 51D4 51C4
 53A4 52D6 52D4
 61D7 54C1

GRAPHICS CORE
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NONE	50		74



MAIN MEMORY DDR AND FRAME BUFFER POWER CONVERTER (2.50VDC)

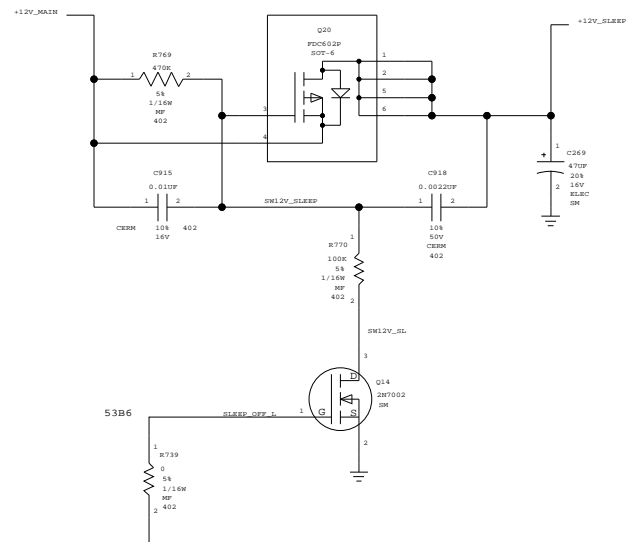
MEMORY SUPPLY 2.5V

MEMORY PS

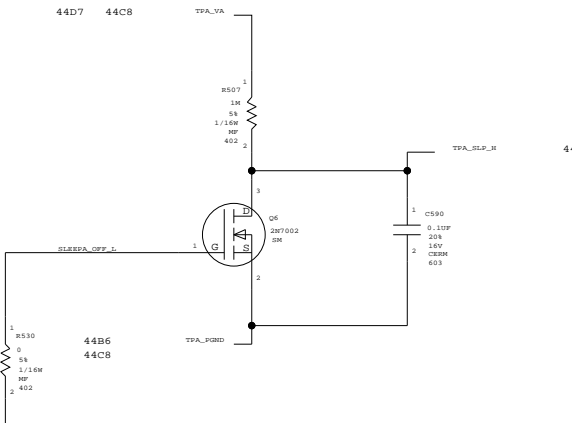
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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-6490	REV. A
	SCALE NONE	SHT 51	OF 74

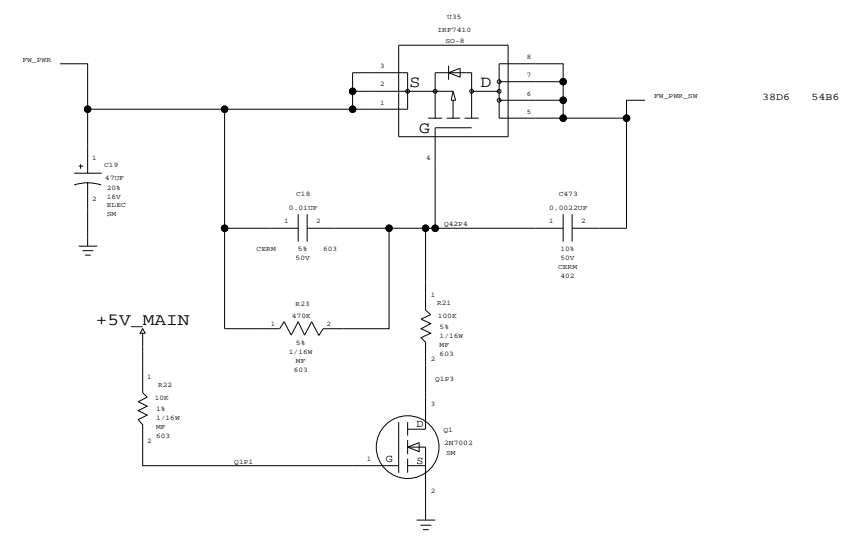
+12V MAIN POWER SWITCH
(OFF DURING SLEEP)



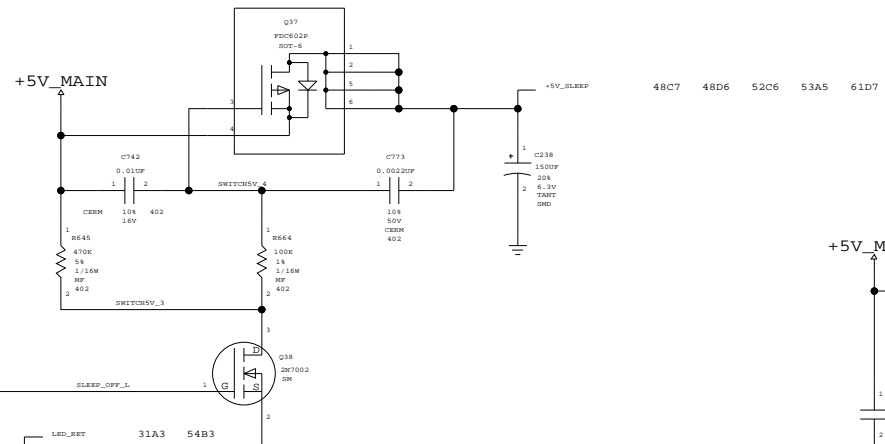
AUDIO SLEEP SWITCH
(OFF DURING SLEEP)



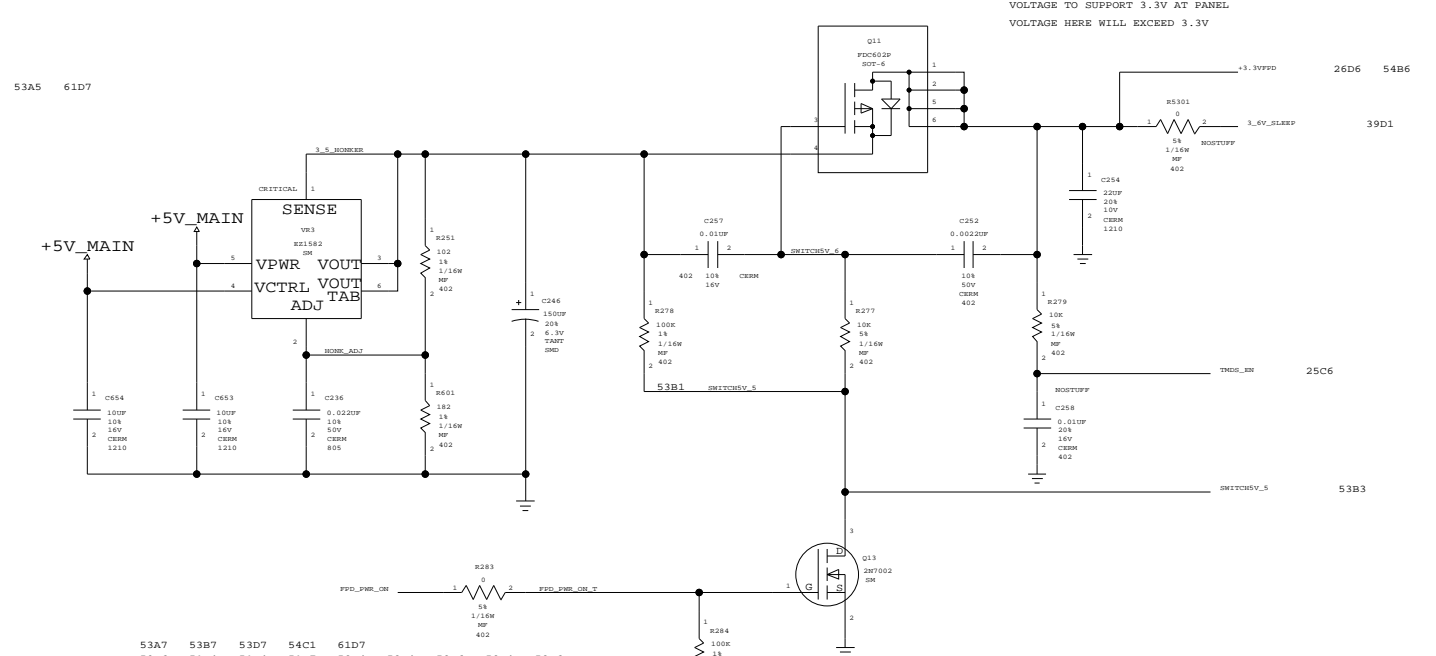
FIREWIRE POWER SWITCH



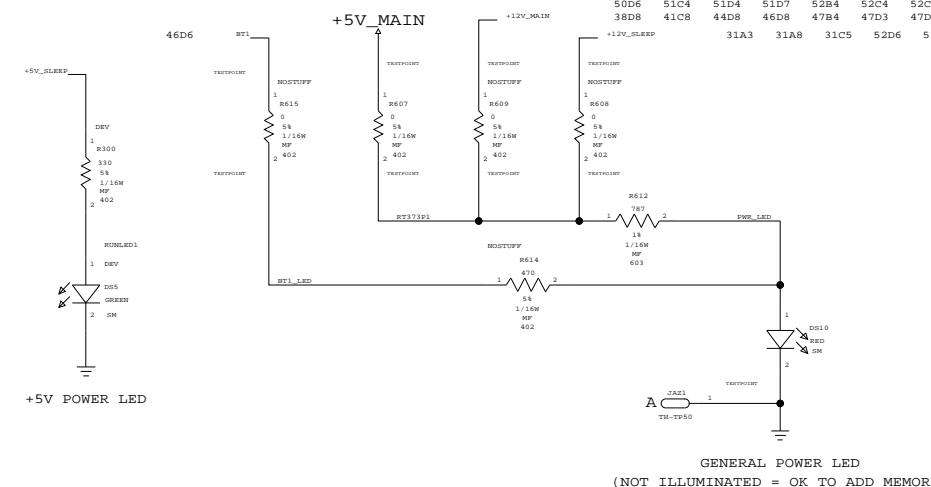
+5V POWER SWITCH
(OFF DURING SLEEP)



TMDS POWER CONVERTER & SWITCH
(OFF DURING SLEEP)



+5V POWER, SLEEP & TESTPOINT LEADS
(TESTPOINT LED IS USED FOR SERVICE AND IF NOT ILLUMINATED, TELLS USER ITS OK TO ADD MEMORY)



+5V/+12V, AUDIO FW & TMDS PWR

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SCALE		SHT	OF
NONE		53	74

D
C
B
A

D
C
B
A

SIG_NAME	RATNEST_SCHEDULE	MATCHED_DELAY	MAX_VIAS	DELAY_RULE	STUB_LENGTH	NET_SPACING_TYPE	MAX_EXPOSED_LENGTH	DIFFERENTIAL_PAIR	PUNC_TEST	PULSE_PARAM
PCI_DEV0_S	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
PCI_DEV1_S	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
PCI_DEV2_S	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
PCI_DEV3_S	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
PCI_STOP_S	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
PCI_FAB	MIN_DAISSY_CHAIN	6	6	::6000:8000	500					33 MHZ
CLK33M_PCI_SLOT0_UP		3	3	::600:1000	200		450			33 MHZ
CLK33M_PCI_SLOT1_UP		3	3	::600:1200	200		450			33 MHZ
CLK33M_PCI_SLOT2_UP		3	3	::600:1000	200		450			33 MHZ
CLK33M_PCI_SLOT3_UP		5	5	::3000:4000	200	10 MIL SPACING	450			33 MHZ
INT_PCI_FB_OUT		4	4	::1:1000	200		450			33 MHZ
PCI_FB0_FB02		4	4	::1:200	200		450			33 MHZ
PCI_FB1_FB04		4	4	::1900:2000			450			33 MHZ
PCI_FB2_FB02		4	4	::1900:2000	200		450			33 MHZ
PCI_FB3_FB04		4	4	::2000:3000	200		450			33 MHZ
PCI_FB4_FB02		4	4	::5900:6000			450			33 MHZ
INT_PCI_FB_IN		4	4	::1:1080	200		450			33 MHZ
PCIY_AD<31..0>		3	3	::1:1000						33 MHZ
PCIY_CBE<31..0>		3	3	::1:1000						33 MHZ
PCIY_FRAME_S		3	3	::1:1000						33 MHZ
PCIY_TRDY_S		3	3	::1:1000						33 MHZ
PCIY_DEVSEL_S		3	3	::1:1000						33 MHZ
PCIY_STOP_S		3	3	::1:1000						33 MHZ
PCIY_FAB		3	3	::1:1000						33 MHZ
AGP_AD<0..15>	AGP_GROUP0:::280	5	5	::1:4500						266 MHZ
AGP_CBE<0..15>	AGP_GROUP0:::330	5	5	::1:4500						266 MHZ
AGP_AD_STB<0>	AGP_GROUP0:::330	4	4	::1:4400	200	8 MIL SPACING	500	AGP_ADSTB0P0		133 MHZ
AGP_AD_STB<1>	AGP_GROUP0:::330	4	4	::1:4400	200	8 MIL SPACING	500	AGP_ADSTB0P0		133 MHZ
AGP_AD<16..31>	AGP_GROUP0:::280	5	5	::1:4500						266 MHZ
AGP_CBE<2..31>	AGP_GROUP0:::280	5	5	::1:4500						266 MHZ
AGP_AD_STB<1>	AGP_GROUP0:::280	4	4	::1:4400	200	8 MIL SPACING	500	AGP_ADSTB0P1		133 MHZ
AGP_AD_STB<4>	AGP_GROUP0:::330	4	4	::1:4400	200	8 MIL SPACING	500	AGP_ADSTB0P1		133 MHZ
AGP_FRAME_S		5	5	::4000:4500						66 MHZ
AGP_TRDY_S		5	5	::4000:4500						66 MHZ
AGP_DEVSEL_S		5	5	::4000:4500						66 MHZ
AGP_STOP_S		5	5	::4000:4500						66 MHZ
AGP_FAB		5	5	::4000:4500						66 MHZ
AGP_SBA<0..7>		5	5	::4000:4500						66 MHZ
AGP_SB_STB	AGP_GROUP99:::200	5	5	::1:4500				AGP_SBSTB0		266 MHZ
AGP_SB_STB_S	AGP_GROUP99:::200	5	5	::1:4500				AGP_SBSTB0		266 MHZ
AGP_ST<0..2>		5	5	::4500:5000						266 MHZ
AGP_FIFR_S		5	5	::4000:4500						66 MHZ
AGP_REQ_S		5	5	::4000:4500						66 MHZ
AGP_REQ_S		5	5	::4500:5000						66 MHZ
AGP_REQ_S		5	5	::4500:5000						66 MHZ
AGP_REQ_S		5	5	::4000:4500						66 MHZ
AGP_REQ_S		5	5	::4500:5000						66 MHZ
STOP_AGP_S		5	5	::4500:5000						66 MHZ
GPU_AGP_AD<0..15>	GPU_AGP_GROUP0:::100	3	3	::1:600						266 MHZ
GPU_AGP_CBE<0..15>	GPU_AGP_GROUP0:::100	3	3	::1:600						266 MHZ
GPU_AD_STB<GPU0>	GPU_AGP_STB0:::150	3	3	::1:450		8 MIL SPACING	500	GPU_ADSTB0P0		133 MHZ
GPU_AD_STB<GPU1>	GPU_AGP_STB0:::150	3	3	::1:800		8 MIL SPACING	500	GPU_ADSTB0P0		133 MHZ
GPU_AGP_AD<16..31>	GPU_AGP_GROUP1:::100	3	3	::1:600						266 MHZ
GPU_AGP_CBE<2..31>	GPU_AGP_GROUP1:::100	3	3	::1:600						266 MHZ
GPU_AD_STB<GPU0>	GPU_AGP_STB1:::150	3	3	::1:800		8 MIL SPACING	500	GPU_ADSTB0P1		133 MHZ
GPU_AD_STB<GPU1>	GPU_AGP_STB1:::150	3	3	::1:800		8 MIL SPACING	500	GPU_ADSTB0P1		133 MHZ
GPU_AGP_FRAME_S		3	3	::1:300:600						66 MHZ
GPU_AGP_TRDY_S		3	3	::1:300:600						66 MHZ
GPU_AGP_DEVSEL_S		3	3	::1:300:600						66 MHZ
GPU_AGP_STOP_S		3	3	::1:300:600						66 MHZ
GPU_AGP_FAB		3	3	::1:300:600						66 MHZ
GPU_AGP_SBA<0..7>		3	3	::1:300:600						66 MHZ
GPU_AGP_SB_STB	GPU_AGP_SBSTB:::150	3	3	::1:300:600				GPU_SBSTB0		266 MHZ
GPU_AGP_SB_STB_S	GPU_AGP_SBSTB:::150	3	3	::1:300:600				GPU_SBSTB0		266 MHZ
GPU_AGP_FIFR_S		3	3	::1:300:600						66 MHZ
GPU_AGP_REQ_S		3	3	::1:300:600						66 MHZ
CLK66M_GPU_AGP		4	4	::3700:3900	200	10 MIL SPACING	250			66 MHZ
INT_AGP_FB_OUT		4	4	::1400:1500	200		250			66 MHZ
AGP_FB0_FB02		4	4	::900:1080	200		250			66 MHZ
AGP_FB1_FB04		4	4	::1900:2000			250			66 MHZ
AGP_FB2_FB02		4	4	::1:200	200		250			66 MHZ
AGP_FB3_FB04		4	4	::1:200	200		250			66 MHZ
INT_AGP_FB_IN		4	4	::1:200	200		250			66 MHZ
INT_NOM_OVERLAY_PU		3	3	::600:800		10 MIL SPACING	250			66 MHZ
INT_ANALYZER_CLK		2	2	::1:2800		8 MIL SPACING	250			66 MHZ
CLK33M_PCI_SLOT4		4	4	::3000:3500	200	8 MIL SPACING	250			33 MHZ

SIGNAL CONSTRAINTS

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DIGITAL SIGNALS

GROUP	SIG_NAME	MATCHED_DELAY	MAX_VIAS	DELAY_RULE	STUPL_LENGTH	NET_SPACING_TYPE	MAX_EXPOSED_LENGTH	PULSE_PARAM										
	FBDQ<4..63>	GPU_FBDDATA_A:::225	4	:::800				300 MHZ	20E8	20F8	20G8	21C5	21C8	21D5	21D8			
	FBFCS<4..63>	RAM_FBDDATA_A:::300	4	:::1000				300 MHZ	21C4	21C7	21D4	21D7	22B1	22B5	22C1	22C5		
	FBDQM<4..7>	GPU_FBDDQM_A:::200	4	:::800				300 MHZ	20D8	20G3								
	FBFCS<4..7>	RAM_FBDDQM_A:::200	4	:::1000				300 MHZ	20G2	22C2	22C6							
	FBA<4..12>	GPU_FBADDR_A:::200	4	:::700				300 MHZ	20C8	20D8	20E3	20F3						
	FBFA<4..11>	RAM_FBADDR_A:::530	5	:::2400	2350			300 MHZ	20E2	20F2	22C2	22C6	22D2	22D6				
	FBA<4..1>	GPU_FBADDR_A:::200	4	:::700				300 MHZ	20C8	20E3								
	FBFA<4..1>	RAM_FBADDR_A:::530	5	:::2400	50			300 MHZ	20E2	22C2	22C6							
	FBA<4..L	GPU_FBCNTL_A:::200	4	:::400				300 MHZ	20C8	20G3								
	FBFA<4..L	RAM_FBCNTL_A:::200	4	:::400				300 MHZ	20C8	20G3								
	FBA<4..L	GPU_FBCNTL_A:::200	4	:::400				300 MHZ	20C8	20F3								
	FBFA<4..L	RAM_FBCNTL_A:::200	4	:::400				300 MHZ	20C8	20F3								
	FBA<4..L	GPU_FBCNTL_A:::200	5	:::400	100			300 MHZ	20C9	20F3								
	FBFA<4..L	RAM_FBCNTL_A:::200	5	:::400	100			300 MHZ	20D3	20D7								
	FBA<4..L	GPU_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20G2	22B2	22B6							
	FBFA<4..L	RAM_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20G2	22B2	22B6							
	FBA<4..L	GPU_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20F2	22B2	22B6							
	FBFA<4..L	RAM_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20F2	22B2	22B6							
	FBA<4..L	GPU_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20F2	22B2	22B6							
	FBFA<4..L	RAM_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20F2	22B2	22B6							
	FBA<4..L	GPU_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20D2	22C2	22C6							
	FBFA<4..L	RAM_FBCNTL_A:::200	5	:::2700	50			300 MHZ	20D2	22C2	22C6							
	FBDQS<4..7>	GPU_FBDDQS_A:::100	3	:::1350				300 MHZ	20C7	21A8								
	FBFCS<4..7>	RAM_FBDDQS_A:::150	3	:::1500		10 MIL SPACING		300 MHZ	21A7									
	FBDQS<4..7>	GPU_FBDDQS_A:::150	3	:::1500		10 MIL SPACING		300 MHZ	21A6	22C2	22C6							
	FBFCS<4..7>	RAM_FBDDQS_A:::150	3	:::1500		10 MIL SPACING		300 MHZ	21A6	22C2	22C6							
	FBA<4..L	GPU_FBCLK_A:::50	3	:::150			200	300 MHZ	20D7	21C3								
	FBFA<4..L	RAM_FBCLK_A:::50	3	:::150			200	300 MHZ	20D7	21C3								
	FBA<4..L	GPU_FBCLK_A:::50	3	:::150			200	300 MHZ	20D7	21D3								
	FBFA<4..L	RAM_FBCLK_A:::50	3	:::150			200	300 MHZ	20D7	21D3								
	FBA<4..L	GPU_FBCLK_A:::80	3	:::2500			200	300 MHZ	21D1	22C2								
	FBFA<4..L	RAM_FBCLK_A:::80	3	:::2500			200	300 MHZ	21D1	22C2								
	FBA<4..L	GPU_FBCLK_A:::70	3	:::2500			200	300 MHZ	21C1	22C6								
	FBFA<4..L	RAM_FBCLK_A:::70	3	:::2500			200	300 MHZ	21C1	22C6								
	FBD<4..127>	GPU_FBDDATA_B:::225	4	:::800				300 MHZ	20E5	20F5	20G5	21B5	21B8	21C5	21C8			
	FBFCS<4..127>	RAM_FBDDATA_B:::325	4	:::1000				300 MHZ	21B4	21B7	21C4	21C7	23B1	23B5	23C1	23C5		
	FBDQM<4..15>	GPU_FBDDQM_B:::120	4	:::800				300 MHZ	20C3	20D3	20D5							
	FBFCS<4..15>	RAM_FBDDQM_B:::120	4	:::1000				300 MHZ	20C2	20D2	23C6							
	FBA<4..12>	GPU_FBADDR_B:::120	4	:::600				300 MHZ	20A3	20B3	20C3	20C5	20D5					
	FBFA<4..11>	RAM_FBADDR_B:::370	5	:::2400	50			300 MHZ	20B2	20C2	23C2	23C6	23D2	23D6				
	FBA<4..1>	GPU_FBADDR_B:::120	4	:::600				300 MHZ	20A3	20C5								
	FBFA<4..1>	RAM_FBADDR_B:::370	5	:::2400	50			300 MHZ	20A2	23C2	23C6							
	FBA<4..L	GPU_FBCNTL_B:::120	4	:::400				300 MHZ	20C3	20D4								
	FBFA<4..L	RAM_FBCNTL_B:::120	4	:::400				300 MHZ	20C3	20D4								
	FBA<4..L	GPU_FBCNTL_B:::120	4	:::400				300 MHZ	20C3	20D4								
	FBFA<4..L	RAM_FBCNTL_B:::120	4	:::400				300 MHZ	20C3	20D4								
	FBA<4..L	GPU_FBCNTL_B:::120	5	:::400	100			300 MHZ	20C3	20C4								
	FBFA<4..L	RAM_FBCNTL_B:::2000	5	:::3500	3550			300 MHZ	20A3	20C4								
	FBA<4..L	GPU_FBCNTL_B:::2000	5	:::3500	3550			300 MHZ	20C2	23B2	23B6							
	FBFA<4..L	RAM_FBCNTL_B:::2000	5	:::3500	3550			300 MHZ	20C2	23B2	23B6							
	FBA<4..L	GPU_FBCNTL_B:::2000	5	:::3500	3550			300 MHZ	20C2	23B2	23B6							
	FBFA<4..L	RAM_FBCNTL_B:::2000	5	:::3500	3550			300 MHZ	20C2	23B2	23B6							
	FBDQS<4..15>	GPU_FBDDQS_B:::100	3	:::1350		10 MIL SPACING		300 MHZ	20A2	23C2	23C6							
	FBFCS<4..15>	RAM_FBDDQS_B:::160	3	:::1500		10 MIL SPACING		300 MHZ	20D4	21A5								
	FBDQS<4..15>	GPU_FBDDQS_B:::150	3	:::1500		10 MIL SPACING		300 MHZ	21A3	23C2	23C6							
	FBA<4..L	GPU_FBCLK_B:::50	3	:::150			200	300 MHZ	20C5	21B3								
	FBFA<4..L	RAM_FBCLK_B:::50	3	:::150			200	300 MHZ	20C5	21C3								
	FBA<4..L	GPU_FBCLK_B:::50	3	:::150			200	300 MHZ	20C5	21B3								
	FBFA<4..L	RAM_FBCLK_B:::90	4	:::2500			200	300 MHZ	21C1	23C2								
	FBA<4..L	GPU_FBCLK_B:::90	3	:::2500			200	300 MHZ	21B1	23C2								
	FBFA<4..L	RAM_FBCLK_B:::90	3	:::2500			200	300 MHZ	21B1	23C6								
	FBA<4..L	GPU_FBCLK_B:::90	3	:::2500			200	300 MHZ	21B1	23C6								

SIGNAL CONSTRAINTS

NOTICE OF PROPRIETARY PROPERTY

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 APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-6490	REV. A
	SCALE NONE	SHEET 57	OF 74


DIGITAL SIGNALS (CONT'D)

GROUP	SIG_NAME	MATCHED_DELAY	MAX_VIOL	DELAY_RULE	STTR_LENGTH	NET_DRACINGS_TYPE	MAX_SIGNAL_LENGTH	PULSE_PARAM				
CD DRIVE BUS	CSIDE_RESET_L			:::3500:5500				33 MHZ	39A7	39D5		
	CSIDE_ENABLE_L			:::3500:5500				33 MHZ	39A7	39D5		
	CSIDE_STOP			:::5500				33 MHZ	39A7	39D5		
	CSIDE_RESET_REV			:::5500				33 MHZ	39A7	39C5		
	CSIDE_RESET			:::3500:5500				33 MHZ	39A7	39C5		
	CSIDE_DATA<0..15>			:::3500:5500				33 MHZ	39A5	39B5 39B7 39C5		
	CSIDE_RESET_L			:::1000				33 MHZ	39D4	40C6		
	CSIDE_ENABLE_L			:::4000				33 MHZ	39D4	40C6		
	CSIDE_STOP			:::5000				33 MHZ	39D4	40C6		
	CSIDE_RESET_REV			:::5000				33 MHZ	39C4	40C6		
	CSIDE_RESET			:::1000				33 MHZ	39C4	40C6		
	CSIDE_DATA<0..15>			:::1000				33 MHZ	39A4 39B4 39C4 40C6			
	CSIDE_ENABLE			:::1000				33 MHZ	40C6			
	CSIDE_STOP			:::3500:5500				33 MHZ	39A7	40C8		
	CSIDE_RESET_REV			:::1000				33 MHZ	40C6			
	CSIDE_RESET			:::3500:5500				33 MHZ	39A7	40C8		
	CSIDE_DATA<0..2>			:::1000				33 MHZ	40C6			
	CSIDE_ENABLE			:::3500:5500				33 MHZ	39B7 40A8 40B8			
	HD DRIVE BUS	HD_RESET_L	HD_DATA:::5500		:::100:6000	500			100 MHZ	39C7	39D3	
		HD_RESET	HD_DATA:::5500		:::100:6000	500			100 MHZ	39C7	39D3	
HD_RESET_REV		HD_DATA:::5500		:::100:6000	500			100 MHZ	39C7	39D3		
HD_RESET		HD_DATA:::5500		:::6000				100 MHZ	39C3	39C7		
HD_RESET_REV		HD_DATA:::5500		:::100:6000	500			100 MHZ	39C3	39C7		
HD_RESET		HD_DATA:::5500		:::100:6000	500			100 MHZ	39A3 39B3 39C3 39C7 39D7			
HD_RESET_REV		HD_DATA:::5500		:::1000				100 MHZ	39D1	40C3		
HD_RESET		HD_DATA:::5500		:::1000				100 MHZ	39D1	40C3		
HD_RESET_REV		HD_DATA:::5500		:::5500				100 MHZ	39D1	40C3		
HD_RESET		HD_DATA:::5500		:::55000				100 MHZ	39C1	40C3		
HD_RESET_REV		HD_DATA:::5500		:::1000				100 MHZ	39C1	40C3		
HD_RESET		HD_DATA:::5500		:::1000				100 MHZ	40C3			
HD_RESET_REV		HD_DATA:::5500		:::100:6000	500			100 MHZ	39C7 40C4			
HD_RESET		HD_DATA:::5500		:::100:6000	500			100 MHZ	40C3			
HD_RESET_REV		HD_DATA:::5500		:::1000				100 MHZ	39C7 40C4 40B4			
HD_RESET		HD_DATA:::5500		:::100:6000	500			100 MHZ	39C7 40B4			
HD_RESET_REV		HD_DATA:::5500		:::6000				100 MHZ	40C2			
HD_RESET		HD_DATA:::5500		:::6000				100 MHZ	39C7 40B4			
CLK_LIN_INT_ROOT			3	:::1000	100	8 MIL SPACING		18.432 MHZ	60B5			
CLK_LIN_INT_ROOT			3	:::1000	100	8 MIL SPACING		18.432 MHZ	60B5			
CLK_LIN_INT_ROOT		3	:::1200	50	8 MIL SPACING		18.432 MHZ	60B5				
USBA_P	USBA:::500							30B3				
USBA_N	USBA:::500							30B3				
USBA_P_F	USBA_P:::500				100			30B2 35B7				
USBA_N_F	USBA_N:::500				100			30B2 35B7				
USBB_P	USBB:::500							30B3				
USBB_N	USBB:::500							30B3				
USBB_P_F	USBB_P:::500				100			30B2 35C7				
USBB_N_F	USBB_N:::500				100			30B2 35C7				
USBC_P	USBC:::500							30B3				
USBC_N	USBC:::500							30B3				
USBC_P_F	USBC_P:::500				100			30B2 35D7				
USBC_N_F	USBC_N:::500				100			30B2 35D7				
USBE_P	USBE:::500							30B3				
USBE_N	USBE:::500							30B3				
USBE_P_F	USBE_P:::500				100			30B2 31D3 61B4				
USBE_N_F	USBE_N:::500				100			30B2 31D3 61B4				
USBF_P	USBF:::500							30B3				
USBF_N	USBF:::500							30B3				
USBF_P_F	USBF_P:::500				100			30B2 31C5 61B4				
USBF_N_F	USBF_N:::500				100			30B2 31C5 61B4				
PMU_CLK0		3	:::1000	100	8 MIL SPACING		10 MHZ	46B5				
PMU_CLK1		3	:::1000	100	8 MIL SPACING		10 MHZ	46B5				
PMU_CLK2		3	:::300	50	8 MIL SPACING		10 MHZ	46A6				
PMU_CLKOUT		3	:::1000	100	8 MIL SPACING		32.768 MHZ	46B4				
PMU_CLKIN		3	:::1000	100	8 MIL SPACING		32.768 MHZ	46B4				
PMU_CLKT		3	:::300	50	8 MIL SPACING		32.768 MHZ	46B2				
MECH0						10 MIL SPACING		31A5 45B8 61A7				
MECH1						10 MIL SPACING		31A5 45C8 61A7				
MECH2						10 MIL SPACING		31A5 45B8 61A7				
RS_INT_SPER+						10 MIL SPACING		31A3 44C3 61B7				
RS_INT_SPER-						10 MIL SPACING		31A3 44C3 61B7				

SIG_NAME	DELAY_RULE	PULSE_PARAM		
T_ND_SIGNAL_0	:::1000	100 MHZ	39C1	40C3
T_ND_SIGNAL_1	:::1000	100 MHZ	39C1	40C3
T_ND_SIGNAL_2	:::1000	100 MHZ	39C1	40C3
T_ND_SIGNAL_3	:::1000	100 MHZ	39C1	40C3
T_ND_SIGNAL_4	:::1000	100 MHZ	39B1	40C3
T_ND_SIGNAL_5	:::1000	100 MHZ	39B1	40C3
T_ND_SIGNAL_6	:::1000	100 MHZ	39B1	40C3
T_ND_SIGNAL_7	:::1000	100 MHZ	39B1	40C3
T_ND_SIGNAL_8	:::1000	100 MHZ	39B1	40C2
T_ND_SIGNAL_9	:::1000	100 MHZ	39B1	40C2
T_ND_SIGNAL_10	:::1000	100 MHZ	39B1	40C2
T_ND_SIGNAL_11	:::1000	100 MHZ	39B1	40C2
T_ND_SIGNAL_12	:::1000	100 MHZ	39B1	40C2
T_ND_SIGNAL_13	:::1000	100 MHZ	39A1	40C2
T_ND_SIGNAL_14	:::1000	100 MHZ	39A1	40C2
T_ND_SIGNAL_15	:::1000	100 MHZ	39A1	40C2

SIGNAL CONSTRAINTS

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NONE	60	74	

D

C

B

A

D

C

B

A

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*** Signal Cross-Reference ***
--- for the entire design ---

+1_5V_AGP      12D6 13C8 18A8 18C2 18D7 19A4 19D5
               48B4 54C3 61C7
+1_5V_INTREPID_PLL1 11D3 18D6 30D6 32D5 54D3
+1_5V_INTREPID_PLL2 30C4 54D3
+1_5V_INTREPID_PLL3 30D4 54D3
+1_5V_INTREPID_PLL4 30D4 54D3
+1_5V_INTREPID_PLL5 18D5 54D3
+1_5V_INTREPID_PLL6 32D4 54D3
+1_5V_INTREPID_PLL7 11D2 54D3
+1_5V_INTREPID_PLL8 30D4 54D3
+1_8V_MAIN     54C4 61D7
+2_5V_ENET    37C3 37D3 37D5 54C6
+2_5V_DDR_AVDD 10D4 54D6
+2_5V_DDR_VDD 10D5 54D6
+2_5V_MAIN    32A3 54C4 61D7
+3_3VFPD     26D6 53C1 54B6
+3V_AUDIO    41D2 41D6 41D7 42C3 45C2 45D5
+3V_INTREPID_USB 30C4 54A3
+3V_INTSS_AVDD 10B7 54D6
+3V_INTSS_VDD 10B6 54D6
+3V_MAIN     41D4 42D5 43A5 43A7 44A7 44D4 54C4
               61D7
+5VSD_T      52D7
+5V_AUDIO    41C6 41D7 43B8
+5V_HP       43A8 43B7 43D5
+5V_MAIN     54C4 61D7
+5V_SLEEP    48C7 48D6 52C6 53A5 53C5 61D7
+12VSD_FILT  31A5 54B3
+12VSD_T     52D7
+12V_DROPPED 46D8
+12V_MAIN    38D8 41C8 44D8 46D8 47B4 47D3 47D7
               50C4 50C8 50D6 51C4 51D4 51D7 52B4
               52C4 52C6 52D4 52D6 53A4 53A7 53B7
               53D7 54C1 61D7
+12V_SLEEP  31A3 31A8 31C5 52D6 53A4 53D6 54C1
               61D7
+12V_SLEEPA 61D7
+INTREPID_CORE_MAIN 12D6 13D4 48B3 49B2 61C7
+MAXBUS_SLEEP 4D5 6D8 7A3 7B3 7C3 7C5 7C7 8D3 9B2
               9D2 9D4 11B8 11D8 46B7 46D1 46D2
               47D2 48D4 54C6 61C7
3_8VH_TRICKLE 46C1 46D7 54B3
3_8V_TRICKLE 46C2 46C6 46D7 52D6 54C1 54C2
3_5_HONKER    53C4
3_6V_SLEEP    39D1 53C1
5V_USB_FUSED  35A7
5V_XRA        52B4
25V_BSTH      51C5 51C6
25V_BSTH_TERM 51C5
25V_COMP      51B6
25V_COMP_DWN  51B6
25V_DH        51B5
25V_DHT       51B5
25V_DL        51B5
25V_DLT       51B4
25V_GND       51B6
25V_NET99     51C3
25V_OCSET     51C5
25V_OVP       51B6
25V_VCC       51C6
25V_VPWR      51B5 51C5
25V_VPWRA     51B4
25V_VSENSE    51C3 51C5
25_CORE_1     51C3
33PCI_SLOTD_SERR_L 34B6
33SLOTB_INT_L 30B7 33C2 61A4
2059_IIC_CLK  10C5
2059_IIC_DAT  10C5
A0_IIC_MCK    10A4 10C5
A1_IIC_MCK    10A4 10C5
AGND          54C4
AGPIO_VPWR    48B6
AGP_AD<31..0> 18B4 18C4 19C8 19D8 56C7
AGP_AD_STB<1..0> 18A4 18B3 19B8 56C7
AGP_AD_STB_GPUUF<1..0> 19B7 56B7
AGP_AD_STB_L<1..0> 18A4 18D1 19B8 56C7
AGP_AD_STB_L_GPUUF<1..0> 19B7 56B7

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AGP_BUSY_L    18C6 18D1 18D3 19A8 56B7
AGP_CBE<3..0> 18B4 19C8 56C7
AGP_DEVSEL_L  18B4 18C3 19B8 56C7
AGP_FBI_EQUAL 18C7 56A7
AGP_FBO_EQUAL 18B7 56A7
AGP_FB_PLUS2  18B8 56A7
AGP_FRAME_L   18B4 18C3 19B8 56C7
AGP_GNT_L     18C3 18C4 19B7 56B7
AGP_INT_L     19B7 30B5 30B8
AGP_IRDY_L    18B4 18C3 19B8 56C7
AGP_PAR       18B4 19B8 56B7
AGP_PIPE_L    18A4 18B3 19B8 56B7
AGP_PLLVDD    19C5
AGP_RBF_L     18A4 18B3 19B8 56B7
AGP_REQ_L     18C3 18C4 19B7 56B7
AGP_RESET_L   19C7 46D3
AGP_SBA<7..0> 18A4 18B1 18B4 18C1 19A8 56B7
AGP_SB_STB    18A4 18B3 19A8 56B7
AGP_SB_STB_L  18A4 18D1 19A8 56B7
AGP_ST<2..0> 18A4 18B1 19B7 56B7
AGP_STOP_L    18B3 18B4 19B8 56C7
AGP_TRDY_L    18B3 18B4 19B8 56C7
AGP_WBF_L     18A6 18B1 19B8 56B7
AINLM         41C4
AINLP         41C4
AINRM         41C4
AINRP         41C4
ALTCGND       54C4
AMPBIAS       44B6
AMPDC1        44B6
AMPDC2        44B6
AMPFAULT      44B6 44B8
AMPUMP        44B6
AMPREF        44B6
ANALOG_GND    54C4
ANALOG_BLU    24C5 24C8 27C6 59D3
ANALOG_GRN    24C5 24C8 27C6 59D3
ANALOG_HSYNC* 24C8 27C4 27D6 28B5 59D3 61B7
ANALOG_RED    24C5 24C8 27B6 59D3
ANALOG_VSYNC* 24C8 27C6 28B5 59D3 61B7
ANEN          37C4
AOUTL         41C1 43D7 44B8
AOUTR         41C1 43C7 44C8
ASH           45B6
AUDIO_SPKR_ID_B 44C4
AUDIO_TO_SND  30B2 30B3 41C1
AUD_AMP_5V    44B8 44C6
AUD_R_FB      41D6
BB_MISO       8B4 8B6
BB_MOSI       8B4 8B5 8B6
BB_SCK        8B4 8B6
BFR_HRESET_L  8B4 8C6
BRCLKO        30A5
BRE           47C5
BRE_1         47B5
BT1           46D6 53A5
BT1_LED       53A5
BT_USB_DM     30B2 31D3 60A5 61B4
BT_USB_DP     30B2 31D3 60B5 61B4
C412P1        43B3
C756_2        42D3
C4237P2       42C4
C4240P2       42C4
C4242P2       42B4
C4243P2       42B4
CAP_PLL       41B4
CD_CS1FX_L    40C6 60C5
CD_CS3FX_L    40C6 60C5
CD_DMACK_L    39D4 40C6 60D5
CD_DMARQ      40C6 60D5
CD_DSTB_RDY   39C4 40C6 60D5
CD_EIDE_ADDR<2..0> 40C6 60C5
CD_HSTR_RDY   39C4 40C6 60D5
CD_RESET_L    39D4 40C6 60D5
CD_STOP       39D4 40C6 60D5
CHGND         54C4
CLK18M_INT_EXT 30B6
CLK18M_INT_XIN 30A5
CLK18M_INT_XO 30A6
CLK18M_INT_XOUT 30A5
CLK25M_ENET_XIN 37B6 59B3

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CLK25M_ENET_XOUT 37B6 59B3
CLK33M_PCI_SLOTB 32D7 33C2 56D7 61A4
CLK33M_PCI_SLOTB_UP 32C5 56D7
CLK33M_PCI_SLOTC_UP 32C5 56D7
CLK33M_PCI_SLOTD 32D7 34A6 56A7
CLK33M_PCI_SLOTD_UP 32C5 56D7
CLK66M_GPU_AGP 18D8 19C7 56A7
CLK66M_GPU_UP 18C6 56A7
CLKENET_LINK_GBE_REF 36C6
CLKENET_LINK_RX 36C7 37C8 59C3
CLKENET_LINK_TX 36D7 37C8 59C3
CLKENET_PHY_RX 37C6 59C3
CLKENET_PHY_TX 37C6 59C3
CLKFW_LINK_LCLK 36C5
CLKGEN_OUT_1 10A6 55A6
CLK18M_INT_XOUT 60B5
COLE          48C7
COMM_DTR_L    30C3 31C7 61C4
COMM_GPIO_L   30C3 30D2 31C5 61C4
COMM_RESET_L  30C5 31D5 61A7
COMM_RING_DET_L 30B5 30B8 31C5 46C5 61D4
COMM_RTS_L    30C3 31D5 61C4
COMM_RXD      30C3 31C5 61C4
COMM_SHUTDOWN 30C5 30D1 31D7 61D4
COMM_TRXC     30C3 30D2 31C7 61C4
COMM_TXD_L    30C3 31C7 61C4
CORE_MOSFET   47C4 47C6
CORE_MOSFET_1 47B5 47C7
CPU_AACK_L    4A7 7B7 9B6 11B3 58C3
CPU_ADDR<31..0> 4B7 4C7 9B7 9B8 9C5 9C6 9C7 9C8
               11C3 11D3 58D3
CPU_ARTRY_L   4A7 7C7 9B8 11B3 58C3
CPU_AVDD      4D3 54C6
CPU_BG_L      4D7 7B7 9B5 11D3 58D3
CPU_BR_L      4D7 7C7 9C5 11D3 58D3
CPU_BUS_VSEL  4D3 7C4
CPU_CHKSTP_IN_L 4B3 7B5 61C7
CPU_CHKSTP_OUT_L 4B3 7B5 9A2 9D6 61C7
CPU_C1_L      4A7 7A7 9C6 11C3 58C3
CPU_CLK_EN    11A3 46C4
CPU_DATA<63..0> 5A4 5B4 5C4 5D4 9C5 9C6 9C7 9C8 9D5
               9D6 9D7 9D8 11B1 11B5 11B8 11C1 11C5
               11D1 11D5 11D8 58D3
CPU_DBG_L     4C3 7B7 9C8 11B1 58C3
CPU_DRDY_L    4C2 7B7 9B6 11B1 58C3
CPU_DRDY_L_UP 4C3 58C3
CPU_DTI<2..0> 4C3 9B5 9B7 11A1 58C3
CPU_EDTI      4C3 7C5
CPU_EMODE0_L  4B3 7A4
CPU_EMODE1_L  4B3 7A4
CPU_FBI_PLUS1 11A4 58C3
CPU_FBO_PLUS1 11A4 58C3
CPU_FB_MINUS3 11A4 58C3
CPU_FB_PLUS2  11A5 58C3
CPU_FB_PLUS3  11A4 58B3
CPU_GBL_L     4B8 9B6 58C3
CPU_HDRST_L   8C7 46C4
CPU_HIT_L     4A7 7C7 9B8 11B3 58C3
CPU_HRESET_L  4B3 7A3 7A5 7B3 8D2 9A2 46C2 46D2
               61C7
CPU_INT_GBL_L 4B8 7B7 11C3 58C3
CPU_L1TSTCLK 4C3 7A4
CPU_L2TSTCLK 4C3 7C4
CPU_LSSD_MODE 4C3 7B5
CPU_MCP_L     4B3 7B5
CPU_PLL_CPG<3..0> 4C3 4D3 6C6 9A8
CPU_PLL_CPGEXT 4C3 6C6 9A8
CPU_PLL_STOP  6B8 46B8
CPU_PMONIN_L  4B3 7C5
CPU_PULLDOWN 4A3 4D7 7C5
CPU_PULLUP    4A3 7A5
CPU_QACK_L    4C3 9B5 11B3 58C3
CPU_QREQ_L    4C3 7D5 9B7 11B3 58C3
CPU_SHD0_L    4A7 7B5
CPU_SHD1_L    4A7 7B5
CPU_SLEEPIN   53B7
CPU_SMI_L     4B3 7A5 46C4
CPU_SRESET_L  4B3 7A5 9A2 61C4
CPU_STATE_LED* 46C4 53A8
CPU_TA_L      4C3 7C7 9C5 11A1 58C3
CPU_TBEN      4C3 7C5 11A3

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CPU_TBST_L    4B7 7B7 9B5 11B3 58D3
CPU_TEA_L     4C3 7B7 9C6 11A1 58C3
CPU_TSIZ<2..0> 4B7 9B6 9B7 9C6 11B3 58D3
CPU_TS_L      4D7 7C7 9C7 11D3 58D3
CPU_TT<4..0>  4B7 7A7 9B5 9B6 9C5 9C6 11B3 58D3
CPU_VCORE_SLEEP 4D3 4D7 9B6 9C2 47B3 47C1 54C6 61B4
               61D7
CPU_VCORE_SLEEPA 47C3
CPU_VCORE_SLEEPB 47A4
CPU_VCORE_SLEEP_C 47A1
CPU_WT_L      4B7 7A7 9B6 11B3 58C3
CSLOT_IOWAIT_L 39B7 54A6
CVBS_CNT      24B8 25D6
CVBS_D        24B7
CY69P2        41B5
DAC2RESET     24C6 59D3
DAC2VDD       24C5 54B6
DAC2VREF      24C5 59D3
DACRSET       24C4
DACVDD        24C4 54B6
DACVREF       24C4
DDC_VCC_3     26A5 26B3 54B6 61B7
DDC_VCC_5     27C4 54A6 61B7
DDRCLK_A0_L_UP 10B3 55B6
DDRCLK_A0_UP  10C3 55B6
DDRCLK_A1_L_UP 10B3 55B6
DDRCLK_A1_UP  10C3 55B6
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DDRCLK_A2_UP  10C3 55B6
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DDRCLK_B0_UP  10C3 55B6
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DDRCLK_B2_L_UP 10B3 55A6
DDRCLK_B2_UP  10C3 55B6
DDR_CLK_CE    10B5
DDR_CLK_VDD_2 10C5 55B6
DDR_FBIN      10B5 55A6
DDR_FBIN_L    10B5 55A6
DDR_FBO       10B3 55A6
DDR_FBO_L     10B3 55A6
DDR_VREF      16B2 16D1 16D8 17D8 54A6
DS1P1         37B2
DS2P1         37B1
DS2_1         40B2
DS2_2         40B2
DS3P1         37B2
DS6_1         40B6
DS6_2         40B6
DUKE_BD       47B5
DVCLKIN       24C5
DVOD0         24B5 29B7
DVOD1         24B5 29B7
DVOD2         24B5 29C7
DVOD3         24B5 29C7
DVOD4         24B5 29C7
DVOD5         24B5 29C7
DVOD6         24B5 29C7
DVOD7         24B5 29C7
DVOD8         24B5 29C7
DVOD9         24B5 29C7
DVOD10        24B5 29C7
DVOD11        24B5 29C7
DVODE         24C5
DVOWSYNC      24C5 28D7
DVOPU         24B5
DVOVREF       24C5
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DVO_PU        24B5
EPRP_MP       8A6
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EIDE_CSELP_L  40C6 54A6
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EIDE_DMARQ    39A7 40C8 60D5
EIDE_DSTB_RDY 39A7 39C5 60D5
EIDE_HSTR_RDY 39A7 39C5 60D5
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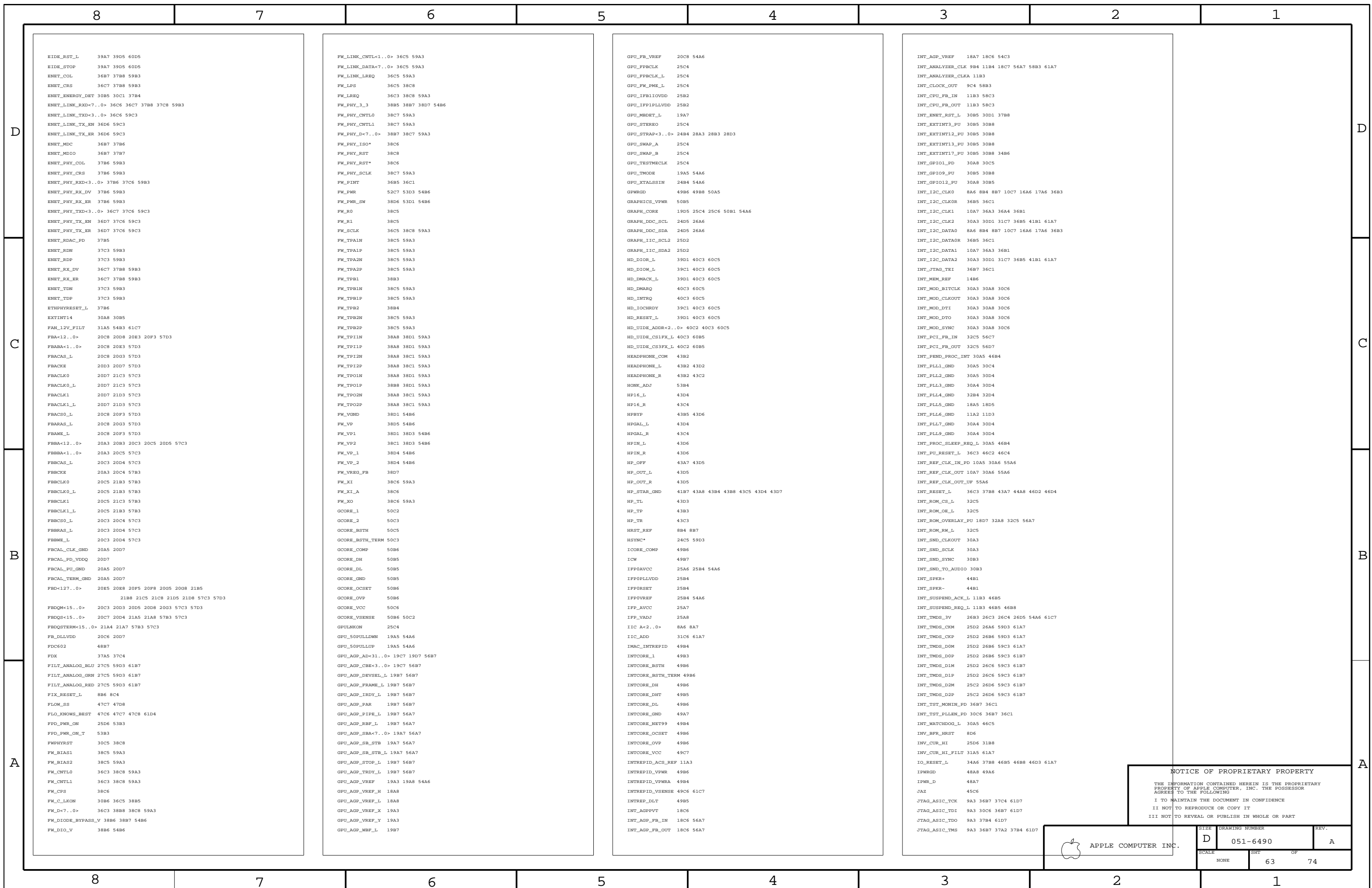
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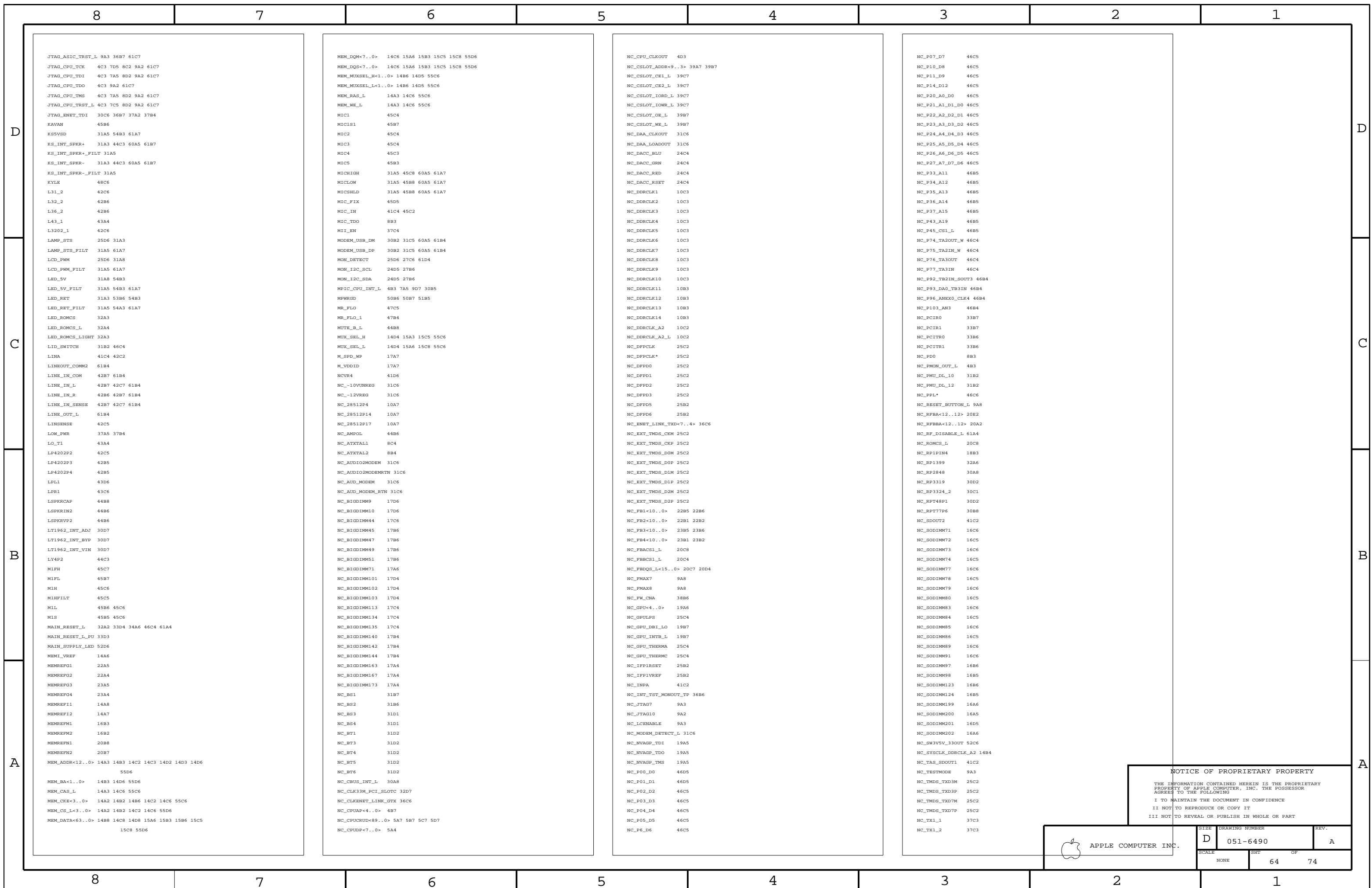
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JTAG_ASIC_TRST_L 9A3 36B7 61C7
 JTAG_CPU_TCK 4C3 7D5 8C2 9A2 61C7
 JTAG_CPU_TDI 4C3 7A5 8D2 9A2 61C7
 JTAG_CPU_TDO 4C3 9A2 61C7
 JTAG_CPU_TMS 4C3 7A5 8D2 9A2 61C7
 JTAG_CPU_TRST_L 4C3 7C5 8D2 9A2 61C7
 JTAG_ENET_TDI 30C6 36B7 37A2 37B4
 KAVAN 45B6
 KS5VSD 31A5 54B3 61A7
 KS_INT_SPKR+ 31A3 44C3 60A5 61B7
 KS_INT_SPKR-FILT 31A5
 KS_INT_SPKR- 31A3 44C3 60A5 61B7
 KS_INT_SPKR-FILT 31A5
 KYLE 48C6
 L31_2 42C6
 L32_2 42B6
 L36_2 42B6
 L43_1 43A4
 L3202_1 42C6
 LAMP_STS 25D6 31A3
 LAMP_STS_FILT 31A5 61A7
 LCD_PWM 25D6 31A8
 LCD_PWM_FILT 31A5 61A7
 LED_5V 31A8 54B3
 LED_5V_FILT 31A5 54B3 61A7
 LED_RET 31A3 53B6 54B3
 LED_RET_FILT 31A5 54A3 61A7
 LED_ROMCS 32A3
 LED_ROMCS_L 32A4
 LED_ROMCS_LIGHT 32A3
 LID_SWITCH 31B2 46C4
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 LINROUT_COMM2 61B4
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 LINE_IN_L 42B7 42C7 61B4
 LINE_IN_R 42B6 42B7 61B4
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 LP4202P3 42B5
 LP4202P4 42B5
 LPL1 43D6
 LPR1 43C6
 LSPKRCAP 44B8
 LSPKRIN2 44B6
 LSPKRV2 44B6
 LT1962_INT_ADJ 30D7
 LT1962_INT_BYP 30D7
 LT1962_INT_VIN 30D7
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 M1PL 45B7
 M1H 45C6
 M1HFILT 45C5
 M1L 45B6 45C6
 M1S 45B5 45C6
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 MAIN_RESET_L_PU 33D3
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 MEMREFG2 22A4
 MEMREFG3 23A5
 MEMREFG4 23A4
 MEMREFI1 14A8
 MEMREFI2 14A7
 MEMREFM1 16B3
 MEMREFM2 16B2
 MEMREFN1 20B8
 MEMREFN2 20B7
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 MEM_BA<1..0> 14B3 14D6 55D6
 MEM_CAS_L 14A3 14C6 55C6
 MEM_CKE<3..0> 14A2 14B2 14B6 14C2 14C6 55C6
 MEM_CS_L<3..0> 14A2 14B2 14C2 14C6 55D6
 MEM_DATA<63..0> 14B8 14C8 14D8 15A6 15B3 15B6 15C5 15C8 55D6

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 MEM_DQS<7..0> 14C6 15A6 15B3 15C5 15C8 55D6
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 MEM_MUXSEL_L<1..0> 14B6 14D5 55C6
 MEM_RAS_L 14A3 14C6 55C6
 MEM_WE_L 14A3 14C6 55C6
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 MIC1S1 45B7
 MIC2 45C4
 MIC3 45C4
 MIC4 45C3
 MIC5 45B3
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 MICLOW 31A5 45B8 60A5 61A7
 MICSHLD 31A5 45B8 60A5 61A7
 MIC_FIX 45D5
 MIC_IN 41C4 45C2
 MIC_TDO 8B3
 MII_EN 37C4
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 MODEM_USB_DP 30B2 31C5 60A5 61B4
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 MON_I2C_SDA 24D5 27B6
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 MUTE_B_L 44B8
 MUX_SEL_H 14D4 15A3 15C5 55C6
 MUX_SEL_L 14D4 15A6 15C8 55C6
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 M_VDDID 17A7
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 NC_-10VUNREG 31C6
 NC_-12VREG 31C6
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 NC_28512P14 10A7
 NC_28512P17 10A7
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 NC_ATXTAL2 8B4
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 NC_AUDIO2MODEMRTN 31C6
 NC_AUD_MODEM 31C6
 NC_AUD_MODEMRTN 31C6
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 NC_BIGDIMM10 17D6
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 NC_BIGDIMM71 17A6
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 NC_BIGDIMM135 17C4
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 NC_BIGDIMM142 17B4
 NC_BIGDIMM144 17B4
 NC_BIGDIMM163 17A4
 NC_BIGDIMM167 17A4
 NC_BIGDIMM173 17A4
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 NC_BT4 31D2
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 NC_FB3<10..0> 23B5 23B6
 NC_FB4<10..0> 23B1 23B2
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 NC_FMAX8 9A8
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 NC_GPU_INTR_L 19B7
 NC_GPU_THERMA 25C4
 NC_GPU_THERMC 25C4
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 NC_IFP1VREF 25B2
 NC_INPA 41C2
 NC_INT_TST_MONOUT_TP 36B6
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 NC_ITAG10 9A2
 NC_LCRENABLE 9A3
 NC_MODEM_DETECT_L 31C6
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 NC_NVAGP_TDO 19A5
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 NC_P00_D0 46D5
 NC_P01_D1 46D5
 NC_P02_D2 46C5
 NC_P03_D3 46C5
 NC_P04_D4 46C5
 NC_P05_D5 46C5
 NC_P6_D6 46C5

NC_P07_D7 46C5
 NC_P10_D8 46C5
 NC_P11_D9 46C5
 NC_P14_D12 46C5
 NC_P20_A0_D0 46C5
 NC_P21_A1_D1_D0 46C5
 NC_P22_A2_D2_D1 46C5
 NC_P23_A3_D3_D2 46C5
 NC_P24_A4_D4_D3 46C5
 NC_P25_A5_D5_D4 46C5
 NC_P26_A6_D6_D5 46C5
 NC_P27_A7_D7_D6 46C5
 NC_P33_A11 46B5
 NC_P34_A12 46B5
 NC_P35_A13 46B5
 NC_P36_A14 46B5
 NC_P37_A15 46B5
 NC_P43_A19 46B5
 NC_P45_CS1_L 46B5
 NC_P74_TA2OUT_W 46C4
 NC_P75_TA2IN_W 46C4
 NC_P76_TA3OUT 46C4
 NC_P77_TA3IN 46C4
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 NC_P93_DA0_TB3IN 46B4
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 NC_SODIMM199 16A6
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 NC_SODIMM201 16D5
 NC_SODIMM202 16A6
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 NC_TMDS_TXD3P 25C2
 NC_TMDS_TXD7M 25C2
 NC_TMDS_TXD7P 25C2
 NC_TX1_1 37C3
 NC_TX1_2 37C3

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64	74	



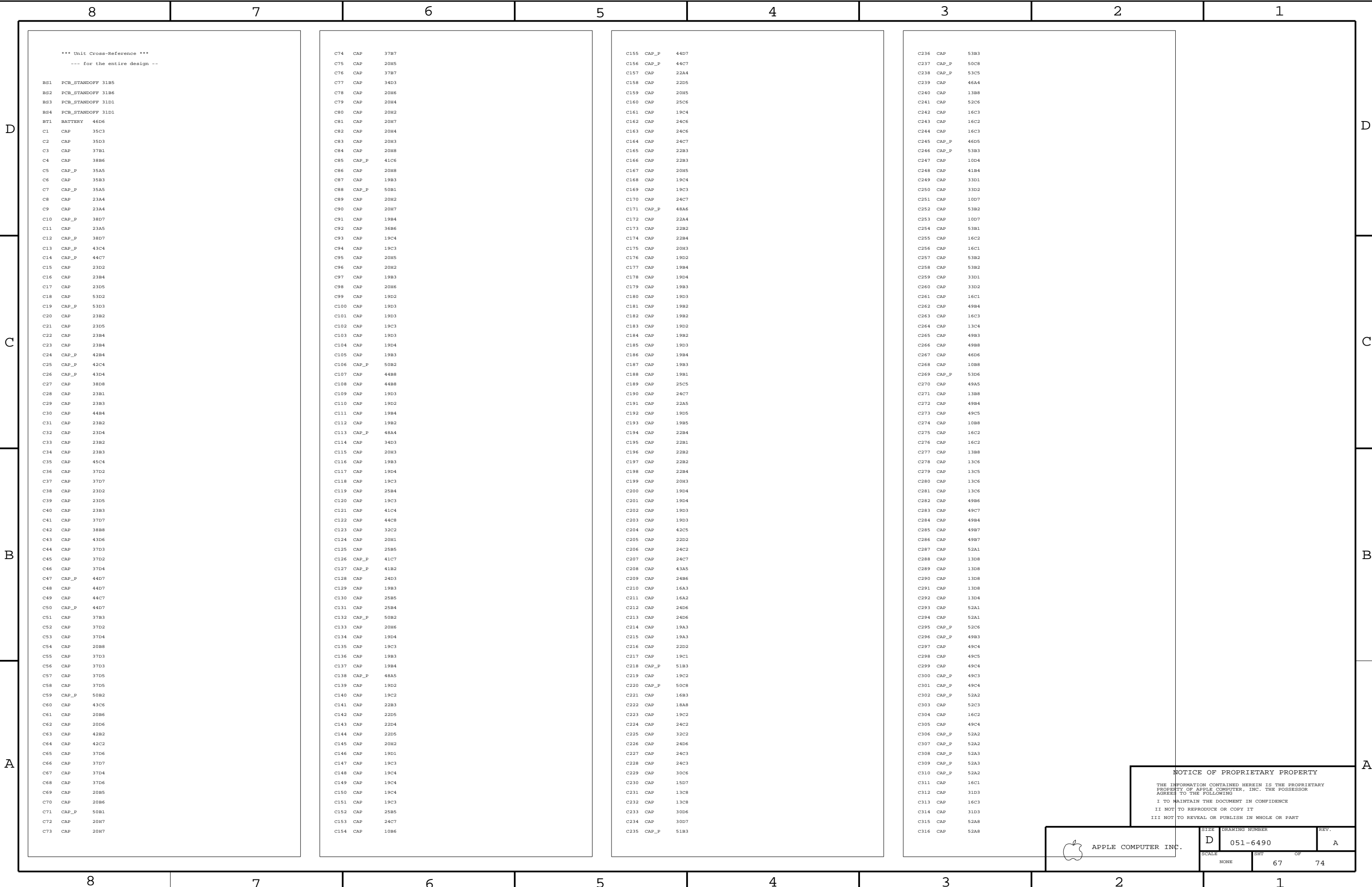
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 NEC_XT2_B 34D3
 NET16 48A5
 NET18 46D6
 NET19 46D6
 NET22 46D8
 NET24 46D8
 NET32 44B1
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 NMI_BUTTON* 31B2 46C4 61D4
 NV11_HSYNC 24C4 28D3
 NV11_VSYNC 24C4 28D3
 NV11_XTALIN 24B4 59D3
 NV11_XTALOUT 24B4 59D3
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 NVPLLVD 24D5 54A6
 NV_BLUE2 24C1
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 NV_GPIOD2 25D4
 NV_GPIOD4 25D4
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 NV_GPIOD6 25C4
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 NV_GPIOD8 25C4
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 NV_GREEN2 24C1
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 OGAR 43C7
 OGDND3_JTAG_EN 37A5
 OPA_STAR_GND 41A7 41D6 42C2 45B3
 OPA_VREF 42B3 45B4
 OUTM1 44B6
 OUTM1PILT 44B4
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 OUTM2PILT 44A4
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 PCIT_AD<31..0> 33B2 33B3 33B6 33B7 33C2 33C3 33C6
 33C7 56C7 61B2 61C2
 PCIT_CBE<31..0> 33B2 33B6 33C3 56C7 61A4
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 PCIT_FRAME_L 33B6 33C2 56C7
 PCIT_IRDY_L 33B6 33C3 56C7 61B4
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 PCIT_TRDY_L 33B6 33C2 56C7
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 33C7 34B6 34B7 34C6 55A6 61B2 61C2
 PCI_CBE<3..0> 32C5 33B7 34B6 55A6 61A4
 PCI_DEVSEL_L 32A8 32C5 33B7 34B6 56D7 61A4
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 PCI_FBI_PLUS2 32C7 56C7
 PCI_FBI_PLUS2 32C7 56D7
 PCI_FB_PLUS4 32C8 56C7
 PCI_FB_PLUS6 32C7 56C7
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 PCI_PAR 32C5 33B7 34B6 56D7 61A4
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 PCI_SLOTB_REQ_L 32A8 32D5 33C3 61A4
 PCI_SLOTC_GNT_L 32A6 32D5
 PCI_SLOTC_REQ_L 32A8 32D5
 PCI_SLOTD_GNT_L 32A6 32C5 34B6
 PCI_SLOTD_FERR_L 34B6
 PCI_SLOTD_REQ_L 32A8 32D5 34B6
 PCI_STOP_L 32A8 32C5 33B7 34B6 56D7 61A4
 PCI_TRDY_L 32B8 32C5 33B7 34B6 56D7 61A4
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 PGOOD 51B7 52A6
 PG_E 47B6
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 PMU_AGP_RESET 46C4
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 PMU_CLKT 46B2 60A5
 PMU_CNVSS 31B3 46B5
 PMU_EPM* 31B3 46C4
 PMU_FROM_INT 30C3 46C4
 PMU_IIC_CLK 46A8 46B4
 PMU_IIC_DAT 46A8 46B4
 PMU_INT_L 30B5 30B8 46B5
 PMU_INT_NMI 30A8 30B5 46C4
 PMU_LOW_DSKEP 46B5
 PMU_NMI 46B4
 PMU_P64 31B2 46C2
 PMU_PME_L 30B5 33C2 34A7 46B2 61A4
 PMU_PME_LL 33C2
 PMU_POWER 31C3 46A5 46B1 46C2 46D5 54B3
 PMU_PRE_PLLSTOP 46B5
 PMU_PWR_LED* 46C5
 PMU_REQ_L 30A8 30C3 46C2
 PMU_RST* 9A8 31B3 46A5 46B5 61D4
 PMU_SMB_SCK 46A3
 PMU_SMB_SDA 46A3
 PMU_STRAP1 46C5
 PMU_TO_INT 30C3 46C4
 PMU_XI 46B5 60A5
 PMU_XO 46B5 60A5
 PMU_XT 46A6 60A5
 POWERUP_OK 46B4
 POWER_UP* 46C7 53A8 61D4
 PRE_HRESET_L 8B4 8D5
 PROBE_DIV 43B4 43D7
 PSEUDO_STAR_GND 41B7 42B4
 PWR_FAIL* 46B1 52D6
 PWR_FAILPMU* 46B4
 PWR_FAIL_T 52D7
 PWR_LED 53A4
 PWR_SWITCH* 9A8 46B1 46C5 61D4

FWR_UP 41C8 52C4 52C8 53B7 53C1 53C7 61D4
 FWR_UP* 52C8
 Q1P1 53C3
 Q1P3 53C2
 Q25_1 43A5
 Q42P4 53D2
 QT1P1 50B4
 QT2P1 50B4
 QT3P1 50B4
 R264P2 41B4
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 16B6 17B4 17B6 17C4 17C6 55D6
 RAM_BA<1..0> 14B3 16B4 16B6 17B6 55D6
 RAM_CAS_L 14A3 16B4 17B6 55C6
 RAM_CKE<3..0> 14A1 14B1 14C1 16B4 16B6 17C4 17C6
 55C6
 RAM_CS_L<3..0> 14A1 14B1 14C1 16B4 16B6 17B4 55C6
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 17D4 17D6 55D6
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 RAM_DQM_B<7..0> 15A2 15A6 15B2 15B4 15B7 15C4 15C7
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 RAM_SA0 17A4
 RAM_WE_L 14A3 16B6 17B6 55C6
 RB22P2 50B2
 RB27-1 50B6
 RB37P1 50C6
 RB160P1 52A5
 RB213P2 51C3
 RB227P1 51C5
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 RFBW<127..0> 21B4 21B7 21C4 21C7 21D4 21D7 22B1
 22B5 22C1 22C5 23B1 23B5 23C1 23C5
 57C3 57D3
 RFBWQM<15..0> 20C2 20D2 20G2 22C2 22C6 23C2 23C6
 57C3 57D3
 RFBWQS<15..0> 21A3 21A6 22C2 22C6 23C2 23C6 57B3
 57C3
 RF_CLKRUN_L 33C3 61B4
 RF_DISABLE_L 33C3
 RINA 41C4 42B2
 RINT_PU_RESET_L 36C5
 RINT_RESET_L 36C5
 RJ45_4_5 37C1 59B3
 RJ45_7_8 37C1 59B3
 RJ45_F_TREF 37B2 59B3
 RJ45_RREF 37C2 59B3
 RJ45_RXN 37C1 37C2 59B3

RJ45_RXP 37C1 37C2 59B3
 RJ45_TREF 37C2 59B3
 RJ45_TXN 37C1 37C2 59B3
 RJ45_TXP 37C1 37C2 59B3
 ROMA14 20C8 28D8
 ROMA15 20C8 28D8
 ROM_CS_L 32B4 32B6 33B4 61C7
 ROM_OE_L 32B2 32B6 33B2 61C7
 ROM_ONBOARD_CS_L 32B2 33B4 61D4
 ROM_RW_L 32B2 32B6 33B4 61B7
 ROM_WP_L 32A2 61A7
 RSPKRCAP 44C8
 RSPKRIN1 44B6
 RSPKRVP1 44B6
 RT78P2 37C4
 RT373P1 53A5
 RT401P1 49C5
 RT406P2 49B3
 RT418P2 52C7
 RUNLED1 53A5
 RUNSS 52D4
 S3700P1 46A1
 S3700P2 46A1
 SB1P1 46A3
 SENSE+ 47C6
 SENSE+_1 47B5 47C7
 SENSE- 47C6 47C8
 SENSE-_1 47B5 47C7
 SGRAVREF 22A3 22C4 22C8 54A6
 SGRBVREF 23A3 23C4 23C8 54A6
 SHS 52C8
 SLEEP 46B5 52C4 61C4
 SLEEP1 53A8
 SLEEP2 53A7
 SLEEPA_OFF_L 53C5
 SLEEPLED_TERM 53A6
 SLEEP_LED_BD 53A6
 SLEEP_OFF_L 53B6 53C7
 SLEEP_OFF_L2 41C7
 SND_AMP_MUTE_L 30C5 44A8
 SND_AMP_M_L 44A7 44B8
 SND_CLKOUT 30A2 41B4
 SND_HP_MUTE_L 30C5 43A7
 SND_HP_M_L 43A7
 SND_HP_SENSE 30B5 43A5 61B7
 SND_HP_SENSE_CONN 43A3 43B2
 SND_HW_RESET_L 30A8 30B5 41B4
 SND_LIN_SENSE 30B5 42D4 61B4
 SND_SCLK 30A2 41B1
 SND_SPKR_ID 30B5 44C5
 SND_SYNC 30B2 41C1
 SND_TO_AUDIO 30B2 41C4
 SNF_FSEL 10A7 30C5
 SPDA 44C3
 SPKR_JACK_DALLAS 44B1
 SPKR_L+ 44B1
 SPKR_L- 44B1
 SPKR_MUTE_T 44B6 44B7
 SPKR_R+ 44B1
 SPKR_R- 44B1
 SSCG_LOCK 10A7
 STBYMD 52B7
 STOP_AGP_L 18C6 18D3 19A8 56B7
 SUPER_FLO 47C7
 SW3V5V_12VIN 52C7
 SW3V5V_INTVCC 52B5 52C6
 SW3V5V_SGND 52A7 52A8 52B7 52B8 52C7
 SW3V5V_VIN 52C6
 SW3VITH2R 52A8
 SW3V_3VSENSE 52B4
 SW3V_BQ2 52B6
 SW3V_BQ2R 52B5
 SW3V_BOOST2 52B6
 SW3V_BOOST2R 52C5
 SW3V_ITH2 52A7 52B6
 SW3V_RUNSS 52B6 52C3
 SW3V_RUNSSR 52C3
 SW3V_SNSM 52B6
 SW3V_SNSP 52B6
 SW3V_SW2 52B6 52C4
 SW3V_SW2A 52C3

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*** Unit Cross-Reference ***
 --- for the entire design ---

BS1 PCB_STANDOFF 31B5
 BS2 PCB_STANDOFF 31B6
 BS3 PCB_STANDOFF 31D1
 BS4 PCB_STANDOFF 31D1
 BT1 BATTERY 46D6
 C1 CAP 35C3
 C2 CAP 35D3
 C3 CAP 37B1
 C4 CAP 38B6
 C5 CAP_P 35A5
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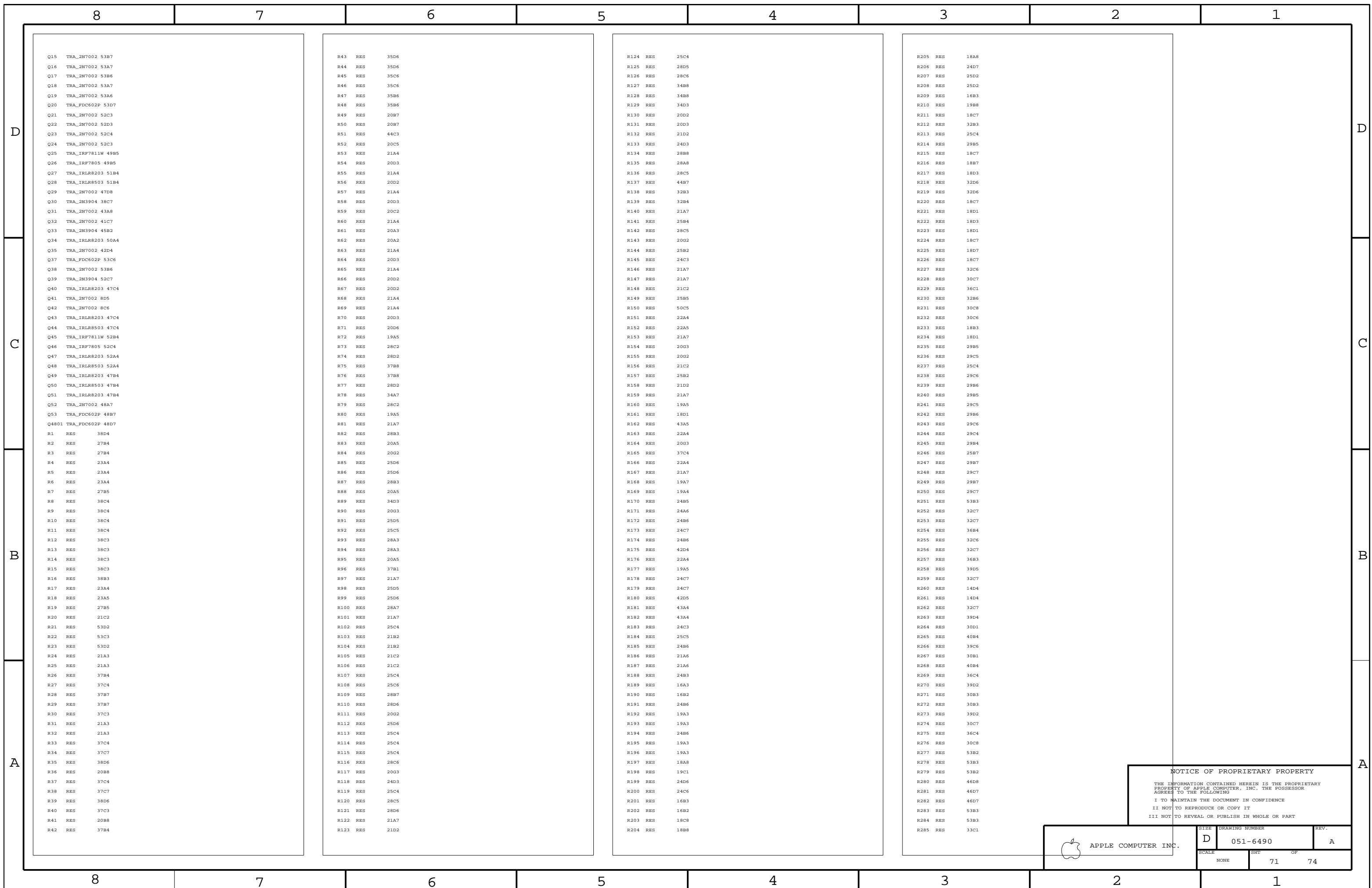
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	D	051-6490	A
SCALE	SHEET	OF	
NONE	68	74	

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D	C642 CAP 45C7 C643 CAP 13C2 C644 CAP 13B2 C645 CAP 13B1 C646 CAP 13B1 C647 CAP 13C7 C648 CAP 13B7 C649 CAP 13C6 C650 CAP 13C7 C651 CAP 13C5 C652 CAP 26B2 C653 CAP 53B4 C654 CAP 53B4 C655 CAP 13C4 C656 CAP 13C2 C657 CAP 13B3 C658 CAP 13B2 C659 CAP 13B3 C660 CAP 13B1 C661 CAP 13B7 C662 CAP 13B7 C663 CAP 13B6 C664 CAP 13C5 C665 CAP 13C6 C666 CAP 13C5 C667 CAP 13C6 C668 CAP 13A5 C669 CAP 15C5 C670 CAP 15C6 C671 CAP 15C5 C672 CAP 17C1 C673 CAP 13B2 C674 CAP 13B6 C675 CAP 45B7 C676 CAP 13B3 C677 CAP 13B1 C678 CAP 13B3 C679 CAP 13B1 C680 CAP 13C3 C681 CAP 13B3 C682 CAP 13B3 C683 CAP 13C6 C684 CAP 13C7 C685 CAP 13C6 C686 CAP 13C6 C687 CAP 13A6 C688 CAP 13B7 C689 CAP 13C1 C690 CAP 13B2 C691 CAP 13C2 C692 CAP 30D6 C693 CAP 13C7 C694 CAP 13C5 C695 CAP 13C5 C696 CAP 13C5 C697 CAP 13C7 C698 CAP 13B5 C699 CAP 13A7 C700 CAP 13B7 C701 CAP 46B2 C702 CAP 13D4 C703 CAP 30D6 C704 CAP 30D5 C705 CAP 46A6 C706 CAP 46A6 C707 CAP 13B3 C708 CAP 13B3 C709 CAP 13C6 C710 CAP 13C6 C711 CAP 13B6 C712 CAP 13B1 C713 CAP 30D5 C714 CAP 13A5 C715 CAP 46B2 C716 CAP 13B2 C717 CAP 13C3 C718 CAP 13B1 C719 CAP 13D2 C720 CAP 13C3 C721 CAP 13D3 C722 CAP 13A7	C723 CAP 13A6 C724 CAP 13A5 C725 CAP 13B7 C726 CAP 17C2 C727 CAP 13D4 C728 CAP 13C3 C729 CAP 13B3 C730 CAP 13D3 C731 CAP 13D1 C732 CAP 13D1 C733 CAP 13C7 C734 CAP 13D2 C735 CAP 13A7 C736 CAP 13A5 C737 CAP 10D6 C738 CAP 10D7 C739 CAP 10D6 C740 CAP 10B5 C741 CAP 17C2 C742 CAP 53C6 C743 CAP 13B3 C744 CAP 13B1 C745 CAP 13C3 C746 CAP 13D3 C747 CAP 13D1 C748 CAP 13D2 C749 CAP 13D3 C750 CAP 13A6 C751 CAP 13A7 C752 CAP 13A6 C753 CAP 13A6 C754 CAP 13A5 C755 CAP 13A6 C756 CAP 10D5 C757 CAP 10D6 C758 CAP 10D4 C759 CAP 46D5 C760 CAP 18D6 C761 CAP 13B3 C762 CAP 13C1 C763 CAP 13D2 C764 CAP 13D3 C765 CAP 13D3 C766 CAP 13D1 C767 CAP 13B6 C768 CAP 13A6 C769 CAP 10D5 C770 CAP 10D6 C771 CAP 10C6 C772 CAP 10C6 C773 CAP 53C5 C774 CAP 13C1 C775 CAP 13C3 C776 CAP 13B2 C777 CAP 13C1 C779 CAP 13D1 C780 CAP 13D2 C781 CAP 13A5 C782 CAP 13A7 C783 CAP 46D5 C784 CAP 30A6 C785 CAP 30C3 C787 CAP 13D3 C788 CAP 13D3 C789 CAP 13D3 C790 CAP 13D1 C791 CAP 13A6 C792 CAP 13A6 C793 CAP 13B6 C794 CAP 13B5 C795 CAP 30C3 C796 CAP 13C3 C797 CAP 13D3 C798 CAP 13D1 C799 CAP 13D1 C800 CAP 13D2 C801 CAP 13A7 C802 CAP 13A5 C803 CAP 13A6 C804 CAP 10D3 C805 CAP 13B2	C806 CAP 13C2 C807 CAP 13B2 C808 CAP 13D2 C809 CAP 13C3 C810 CAP 13D2 C811 CAP 13D2 C812 CAP 13C2 C813 CAP 13A5 C814 CAP 13A6 C815 CAP 13B6 C816 CAP 13A6 C817 CAP 13B6 C818 CAP 13A5 C819 CAP 17C2 C820 CAP 30C3 C821 CAP 13C1 C822 CAP 13C1 C823 CAP 13D7 C824 CAP 13D6 C825 CAP 13A7 C826 CAP 13A7 C827 CAP 13B5 C828 CAP 13C1 C829 CAP 13C2 C830 CAP 13C3 C831 CAP 13D3 C832 CAP 13D7 C833 CAP 13D3 C834 CAP 13D6 C835 CAP 13B3 C836 CAP 13B6 C837 CAP 13B7 C838 CAP 13A7 C839 CAP 13B6 C840 CAP 30A6 C841 CAP 13D4 C842 CAP 13D6 C843 CAP 13C7 C844 CAP 13D6 C845 CAP 13D6 C846 CAP 13D7 C847 CAP 14A7 C848 CAP 32D5 C849 CAP 13C6 C850 CAP 13B3 C851 CAP 13B3 C852 CAP 13B2 C853 CAP 14A7 C854 CAP 11D3 C855 CAP 13B5 C856 CAP 13A7 C857 CAP 13B6 C858 CAP 15D4 C859 CAP 15D3 C860 CAP 15D4 C861 CAP 46A1 C862 CAP 46B7 C863 CAP 13C2 C864 CAP 17C2 C865 CAP 13B1 C866 CAP 13C3 C867 CAP 13C3 C868 CAP 13C2 C869 CAP 13D5 C870 CAP 13D6 C871 CAP 13D6 C872 CAP 13D5 C873 CAP 13D5 C874 CAP 13D5 C875 CAP 13B3 C876 CAP 13B5 C877 CAP 13B7 C878 CAP 13B7 C879 CAP 13B2 C880 CAP 13B5 C881 CAP 13B3 C882 CAP 13B1 C883 CAP 13B2 C884 CAP 13D6 C885 CAP 13D7 C886 CAP 13D5	C887 CAP 13D7 C888 CAP 13D6 C889 CAP 13D6 C890 CAP 13D7 C891 CAP 13D6 C892 CAP 13C4 C893 CAP 13C1 C894 CAP 13C2 C895 CAP 13D5 C896 CAP 13D5 C897 CAP 13D6 C898 CAP 13D5 C899 CAP 13D5 C900 CAP 13D7 C901 CAP 13D7 C902 CAP 13C7 C903 CAP 13B2 C904 CAP 13B6 C905 CAP 10B7 C906 CAP 10B7 C907 CAP 10B8 C908 CAP 15C2 C909 CAP 15C2 C910 CAP 15C1 C911 CAP 39C2 C912 CAP 10B8 C913 CAP 10B7 C914 CAP 17C2 C915 CAP 53D7 C916 CAP 14A8 C917 CAP 39C5 C918 CAP 53D6 C919 CAP 40C7 C920 CAP 40C1 C921 CAP 40C5 C922 CAP 17C1 C923 CAP 40B5 C924 CAP 40B7 C925 CAP 17C2 C926 CAP 52C1 C927 CAP 52B1 C928 CAP_P 49B4 C929 CAP 16A7 C930 CAP 52B8 C931 CAP 52B5 C932 CAP 52A5 C933 CAP 52A6 C934 CAP 52B1 C935 CAP_P 49B3 C936 CAP 17C2 C937 CAP 52C7 C938 CAP 52A4 C939 CAP 52A6 C940 CAP 52A5 C941 CAP 52C5 C942 CAP 8C3 C943 CAP 17A3 C944 CAP 47D3 C945 CAP 17A2 C946 CAP 8A6 C947 CAP_P 47C1 C948 CAP 51B4 C949 CAP 47C5 C950 CAP 47D4 C951 CAP 47D4 C952 CAP 47D4 C953 CAP 47D4 C954 CAP 4C2 C955 CAP 52D4 C956 CAP 52D5 C957 CAP_P 47B1 C958 CAP 9D4 C959 CAP 51C4 C960 CAP 47B2 C961 CAP 9C2 C962 CAP 51C3 C963 CAP 47D4 C964 CAP 47D4 C965 CAP 47D4 C966 CAP 47D4 C967 CAP 9C1				
C								
B								
A								
	8	7	6	5	4	3	2	1

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 III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6490	A
SCALE	SHT	OF	
NONE	69	74	



Q15	TRA_2N7002	53B7
Q16	TRA_2N7002	53A7
Q17	TRA_2N7002	53B6
Q18	TRA_2N7002	53A7
Q19	TRA_2N7002	53A6
Q20	TRA_FDC602P	53D7
Q21	TRA_2N7002	52C3
Q22	TRA_2N7002	52D3
Q23	TRA_2N7002	52C4
Q24	TRA_2N7002	52C3
Q25	TRA_IRF7811W	49B5
Q26	TRA_IRF7805	49B5
Q27	TRA_IRLR8203	51B4
Q28	TRA_IRLR8503	51B4
Q29	TRA_2N7002	47D8
Q30	TRA_2N3904	38C7
Q31	TRA_2N7002	43A8
Q32	TRA_2N7002	41C7
Q33	TRA_2N3904	45B2
Q34	TRA_IRLR8203	50A4
Q35	TRA_2N7002	42D4
Q37	TRA_FDC602P	53C6
Q38	TRA_2N7002	53B6
Q39	TRA_2N3904	52C7
Q40	TRA_IRLR8203	47C4
Q41	TRA_2N7002	8D5
Q42	TRA_2N7002	8C6
Q43	TRA_IRLR8203	47C4
Q44	TRA_IRLR8503	47C4
Q45	TRA_IRF7811W	52B4
Q46	TRA_IRF7805	52C4
Q47	TRA_IRLR8203	52A4
Q48	TRA_IRLR8503	52A4
Q49	TRA_IRLR8203	47B4
Q50	TRA_IRLR8503	47B4
Q51	TRA_IRLR8203	47B4
Q52	TRA_2N7002	48A7
Q53	TRA_FDC602P	48B7
Q4801	TRA_FDC602P	48D7
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R2	RES	27B4
R3	RES	27B4
R4	RES	23A4
R5	RES	23A4
R6	RES	23A4
R7	RES	27B5
R8	RES	38C4
R9	RES	38C4
R10	RES	38C4
R11	RES	38C4
R12	RES	38C3
R13	RES	38C3
R14	RES	38C3
R15	RES	38C3
R16	RES	38B3
R17	RES	23A4
R18	RES	23A5
R19	RES	27B5
R20	RES	21C2
R21	RES	53D2
R22	RES	53C3
R23	RES	53D2
R24	RES	21A3
R25	RES	21A3
R26	RES	37B4
R27	RES	37C4
R28	RES	37B7
R29	RES	37B7
R30	RES	37C3
R31	RES	21A3
R32	RES	21A3
R33	RES	37C4
R34	RES	37C7
R35	RES	38D6
R36	RES	20B8
R37	RES	37C4
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R39	RES	38D6
R40	RES	37C3
R41	RES	20B8
R42	RES	37B4

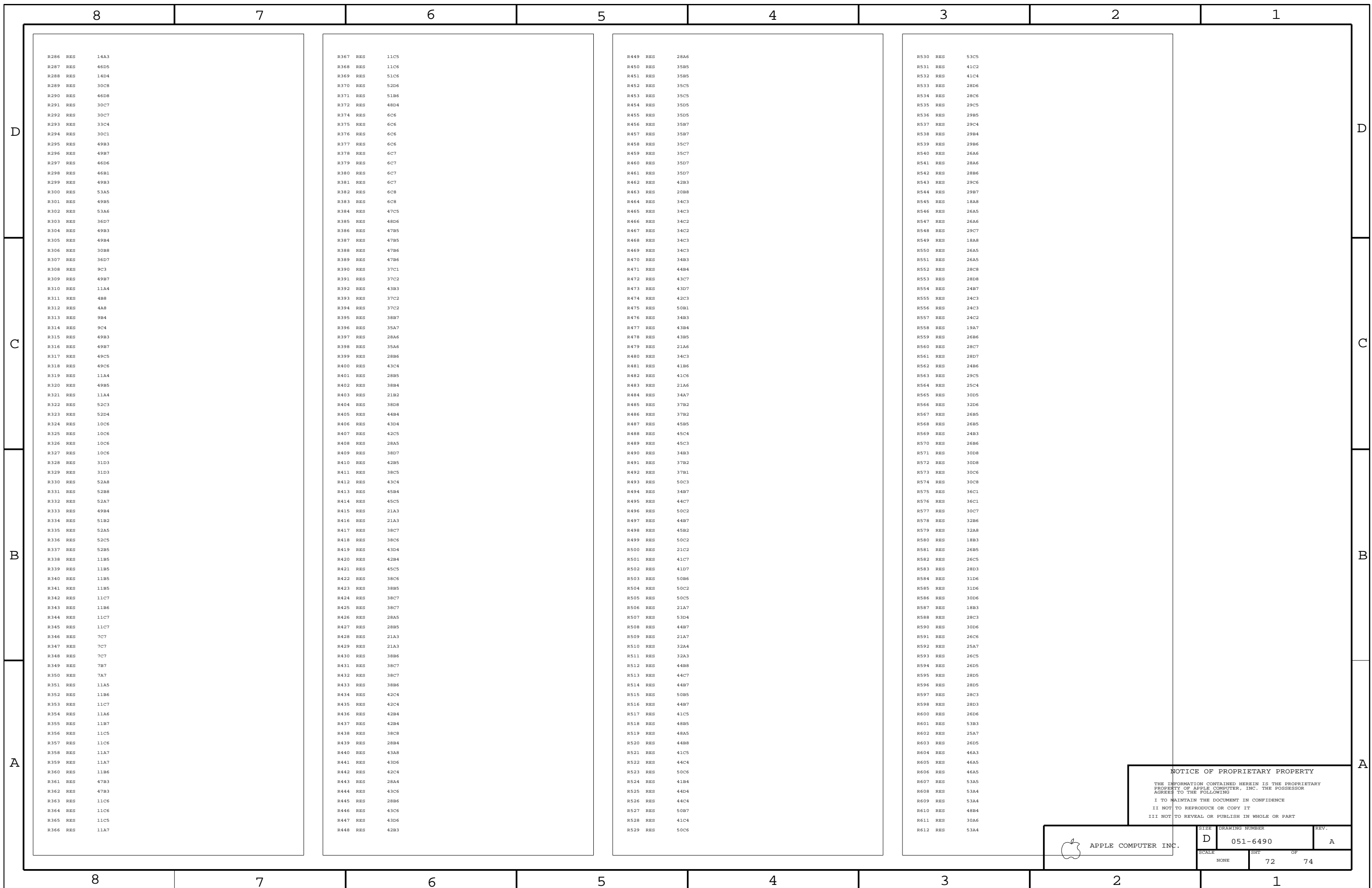
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R50	RES	20B7
R51	RES	44C3
R52	RES	20C5
R53	RES	21A4
R54	RES	20D3
R55	RES	21A4
R56	RES	20D2
R57	RES	21A4
R58	RES	20D3
R59	RES	20C2
R60	RES	21A4
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R66	RES	20D2
R67	RES	20D2
R68	RES	21A4
R69	RES	21A4
R70	RES	20D3
R71	RES	20D6
R72	RES	19A5
R73	RES	28C2
R74	RES	28D2
R75	RES	37B8
R76	RES	37B8
R77	RES	28D2
R78	RES	34A7
R79	RES	28C2
R80	RES	19A5
R81	RES	21A7
R82	RES	28B3
R83	RES	20A5
R84	RES	20G2
R85	RES	25D6
R86	RES	25D6
R87	RES	28B3
R88	RES	20A5
R89	RES	34D3
R90	RES	20G3
R91	RES	25D5
R92	RES	25C5
R93	RES	28A3
R94	RES	28A3
R95	RES	20A5
R96	RES	37B1
R97	RES	21A7
R98	RES	25D5
R99	RES	25D6
R100	RES	28A7
R101	RES	21A7
R102	RES	25C4
R103	RES	21B2
R104	RES	21B2
R105	RES	21C2
R106	RES	21C2
R107	RES	25C4
R108	RES	25C6
R109	RES	28B7
R110	RES	28D6
R111	RES	20G2
R112	RES	25D6
R113	RES	25C4
R114	RES	25C4
R115	RES	25C4
R116	RES	28C6
R117	RES	20G3
R118	RES	24D3
R119	RES	25C4
R120	RES	28C5
R121	RES	28D6
R122	RES	21A7
R123	RES	21D2

R124	RES	25C4
R125	RES	28D5
R126	RES	28C6
R127	RES	34B8
R128	RES	34B8
R129	RES	34D3
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R145	RES	24C3
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R147	RES	21A7
R148	RES	21C2
R149	RES	25B5
R150	RES	50C5
R151	RES	22A4
R152	RES	22A5
R153	RES	21A7
R154	RES	20G3
R155	RES	20G2
R156	RES	21C2
R157	RES	25B2
R158	RES	21D2
R159	RES	21A7
R160	RES	19A5
R161	RES	18D1
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R163	RES	22A4
R164	RES	20G3
R165	RES	37C4
R166	RES	22A4
R167	RES	21A7
R168	RES	19A7
R169	RES	19A4
R170	RES	24B5
R171	RES	24A6
R172	RES	24B6
R173	RES	24C7
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R175	RES	42D4
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R177	RES	19A5
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R181	RES	43A4
R182	RES	43A4
R183	RES	24C3
R184	RES	25C5
R185	RES	24B6
R186	RES	21A6
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R199	RES	24D6
R200	RES	24C6
R201	RES	16B3
R202	RES	16B2
R203	RES	18C8
R204	RES	18B8

R205	RES	18A8
R206	RES	24D7
R207	RES	25D2
R208	RES	25D2
R209	RES	16B3
R210	RES	19B8
R211	RES	18C7
R212	RES	32B3
R213	RES	25C4
R214	RES	29B5
R215	RES	18C7
R216	RES	18B7
R217	RES	18D3
R218	RES	32D6
R219	RES	32D6
R220	RES	18C7
R221	RES	18D1
R222	RES	18D3
R223	RES	18D1
R224	RES	18C7
R225	RES	18D7
R226	RES	18C7
R227	RES	32C6
R228	RES	30C7
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R230	RES	32B6
R231	RES	30C8
R232	RES	30C6
R233	RES	18B3
R234	RES	18D1
R235	RES	29B5
R236	RES	29C5
R237	RES	25C4
R238	RES	29C6
R239	RES	29B6
R240	RES	29B5
R241	RES	29C5
R242	RES	29B6
R243	RES	29C6
R244	RES	29C4
R245	RES	29B4
R246	RES	25B7
R247	RES	29B7
R248	RES	29C7
R249	RES	29B7
R250	RES	29C7
R251	RES	53B3
R252	RES	32C7
R253	RES	32C7
R254	RES	36B4
R255	RES	32C6
R256	RES	32C7
R257	RES	36B3
R258	RES	39D5
R259	RES	32C7
R260	RES	14D4
R261	RES	14D4
R262	RES	32C7
R263	RES	39D4
R264	RES	30D1
R265	RES	40B4
R266	RES	39C6
R267	RES	30B1
R268	RES	40B4
R269	RES	36C4
R270	RES	39D2
R271	RES	30B3
R272	RES	30B3
R273	RES	39D2
R274	RES	30C7
R275	RES	36C4
R276	RES	30C8
R277	RES	53B2
R278	RES	53B3
R279	RES	53B2
R280	RES	46D8
R281	RES	46D7
R282	RES	46D7
R283	RES	53B3
R284	RES	53B3
R285	RES	33C1

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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-6490	REV. A
	SCALE NONE	SHEET 71	OF 74



R286 RES	14A3
R287 RES	46D5
R288 RES	14D4
R289 RES	30C8
R290 RES	46D8
R291 RES	30C7
R292 RES	30C7
R293 RES	33C4
R294 RES	30C1
R295 RES	49B3
R296 RES	49B7
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R301 RES	49B5
R302 RES	53A6
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R610 RES	48B4
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R612 RES	53A4

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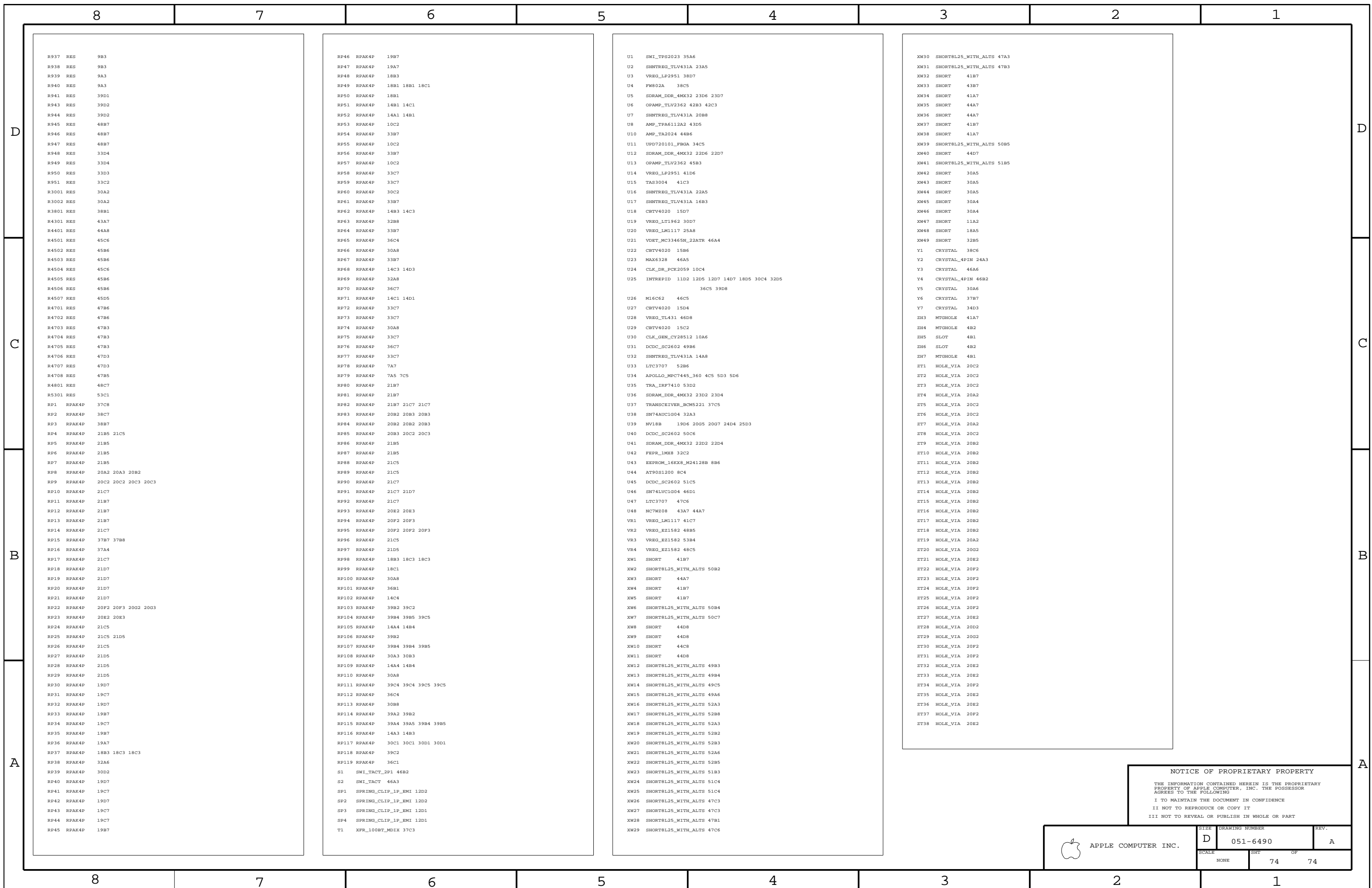
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SIZE	DRAWING NUMBER	REV.
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SCALE	SHEET	OF
NONE	72	74

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C								
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NONE	73	74	



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 U3 VREG_LP2951 38D7
 U4 FW802A 38C5
 U5 SDRAM_DDR_4MX32 23D6 23D7
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 U10 AMP_TA2024 44B6
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 U23 MAX6328 46A5
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	D	051-6490	A
SCALE	NONE	SHT	OF
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