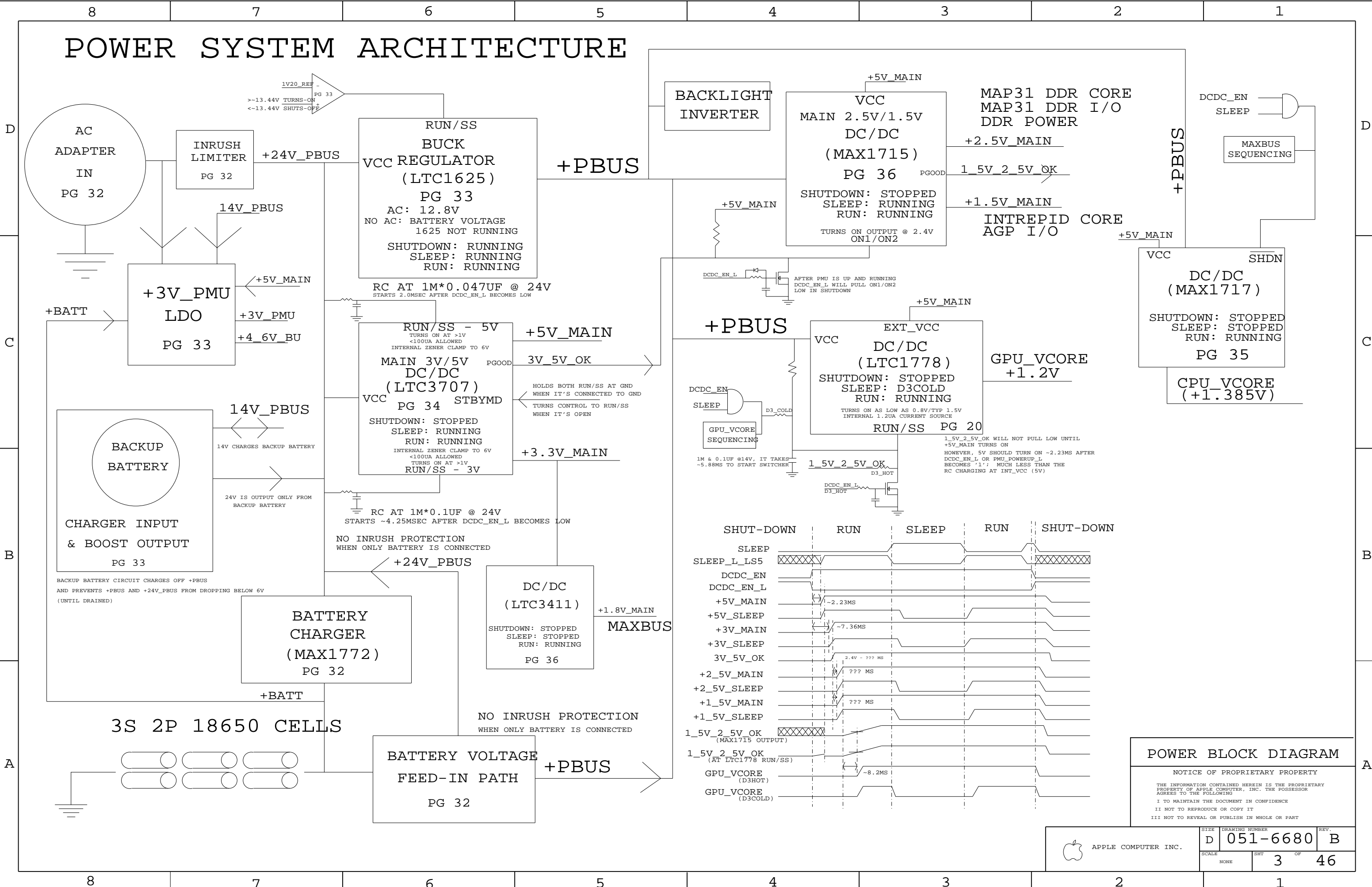


[illegible]





PCB SPECS

THICKNESS : 1.2 MM / 0.047 IN  
1/2 OZ CU THICKNESS: 0.7 MILS  
1.0 OZ CU THICKNESS: 1.4 MILS

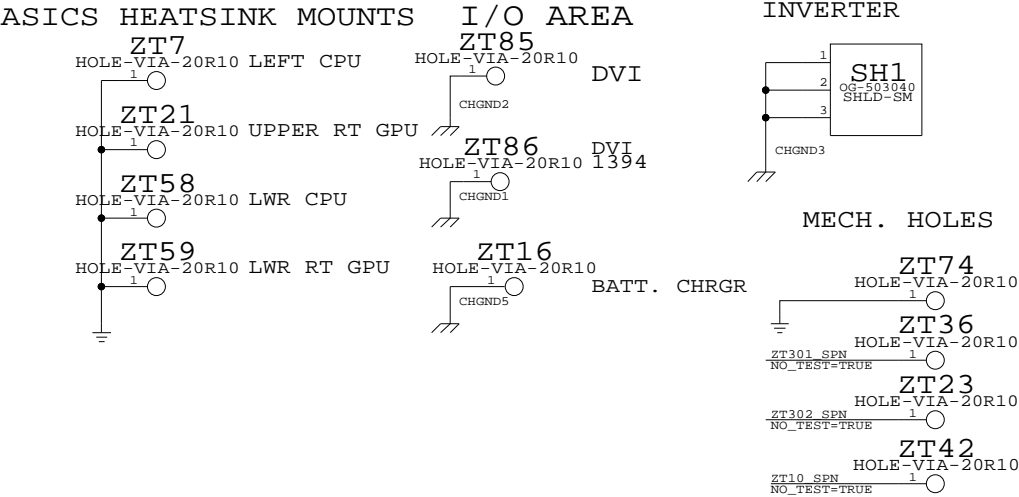
IMPEDANCE : 50 OHMS +/- 10%  
DIELECTRIC: FR-4  
LAYER COUNT: 10  
SIGNAL TRACE WIDTH: 4 MILS  
SIGNAL TRACE SPACING: 4 MILS  
PREPREG THICKNESS: 2-3 MILS

SEE PCB CAD FILES FOR MORE SPECIFIC INFO.

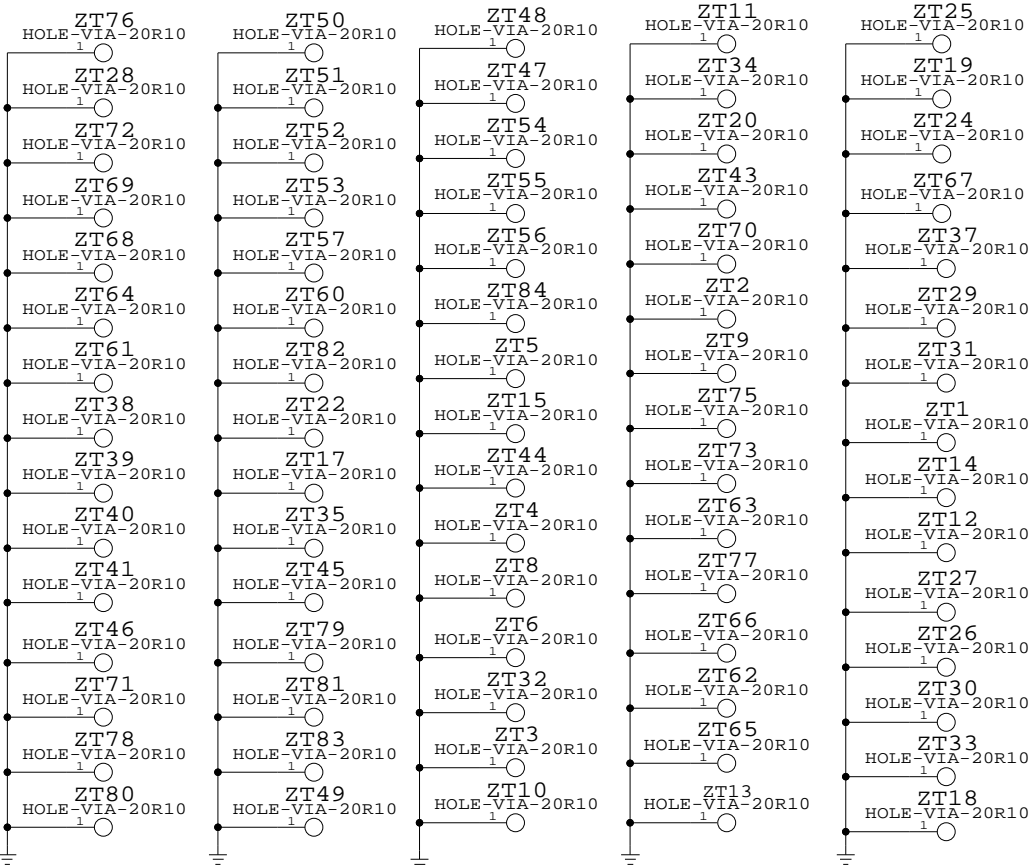
BOARD STACK-UP AND CONSTRUCTION

1-8-1 BLIND MICROVIA/20R10 BURIED VIA/20R10 TH VIA				SIGNAL (1/2 OZ + COPPER PLATING)	
1				SIGNAL (1/2 OZ)	
2	PREPREG (3 MIL)			GROUND (1/2 OZ)	
3	PREPREG (3 MIL)			SIGNAL (1/2 OZ)	
4	CORE (3 MIL)			CUT POWER PLANE (1 OZ)	
5	PREPREG (5 MIL)			CUT POWER PLANE (1 OZ)	
6	CORE (5 MIL)			SIGNAL (1/2 OZ)	
7	PREPREG (5 MIL)			GROUND (1/2 OZ)	
8	CORE (3 MIL)			SIGNAL (1/2 OZ)	
9	PREPREG (3 MIL)			SIGNAL (1/2 OZ + COPPER PLATING)	
10	PREPREG (3 MIL)				

BOARD HOLES  
CHASSIS MOUNTS



GROUND VIAS



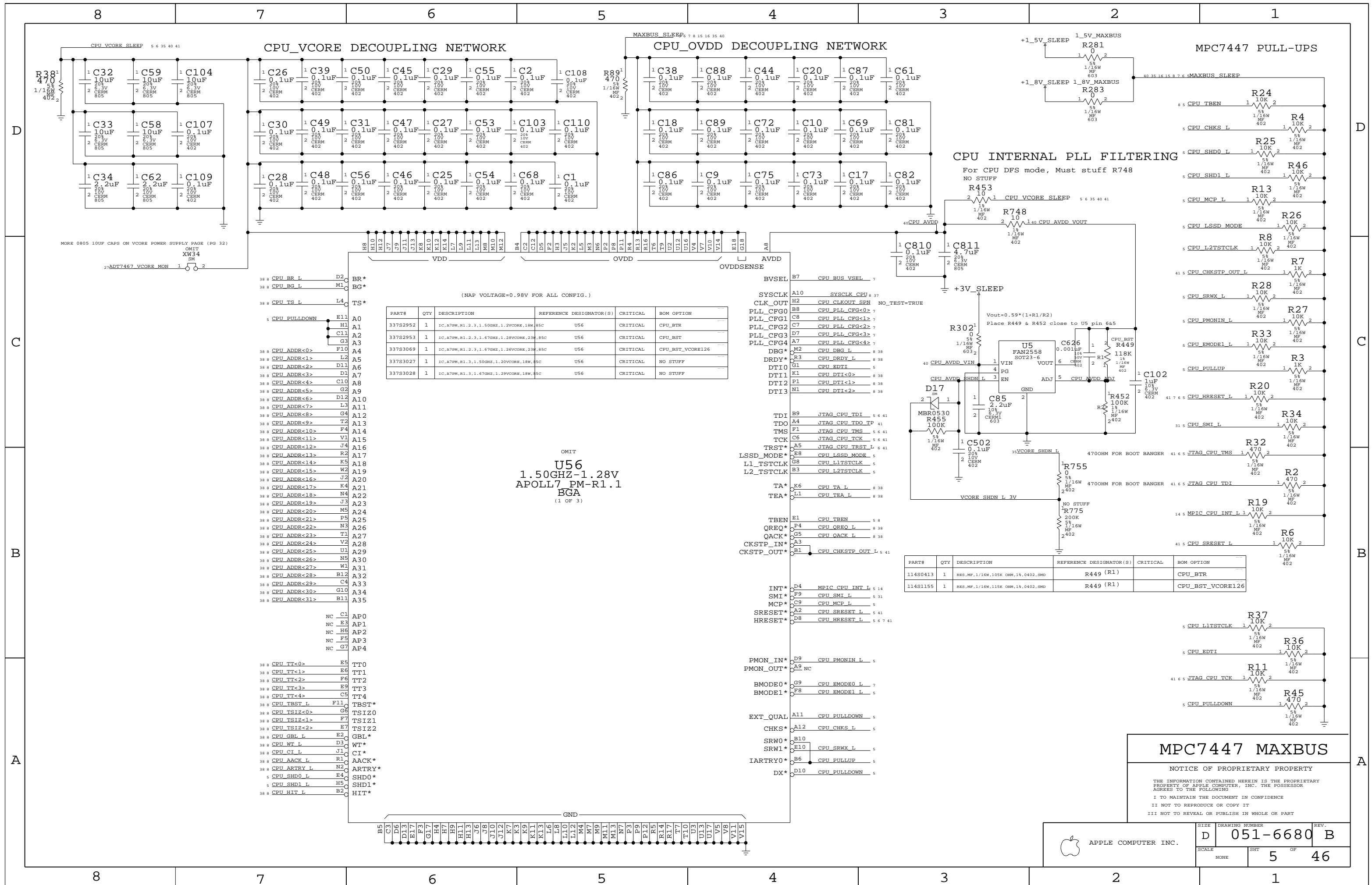
BOARD INFORMATION

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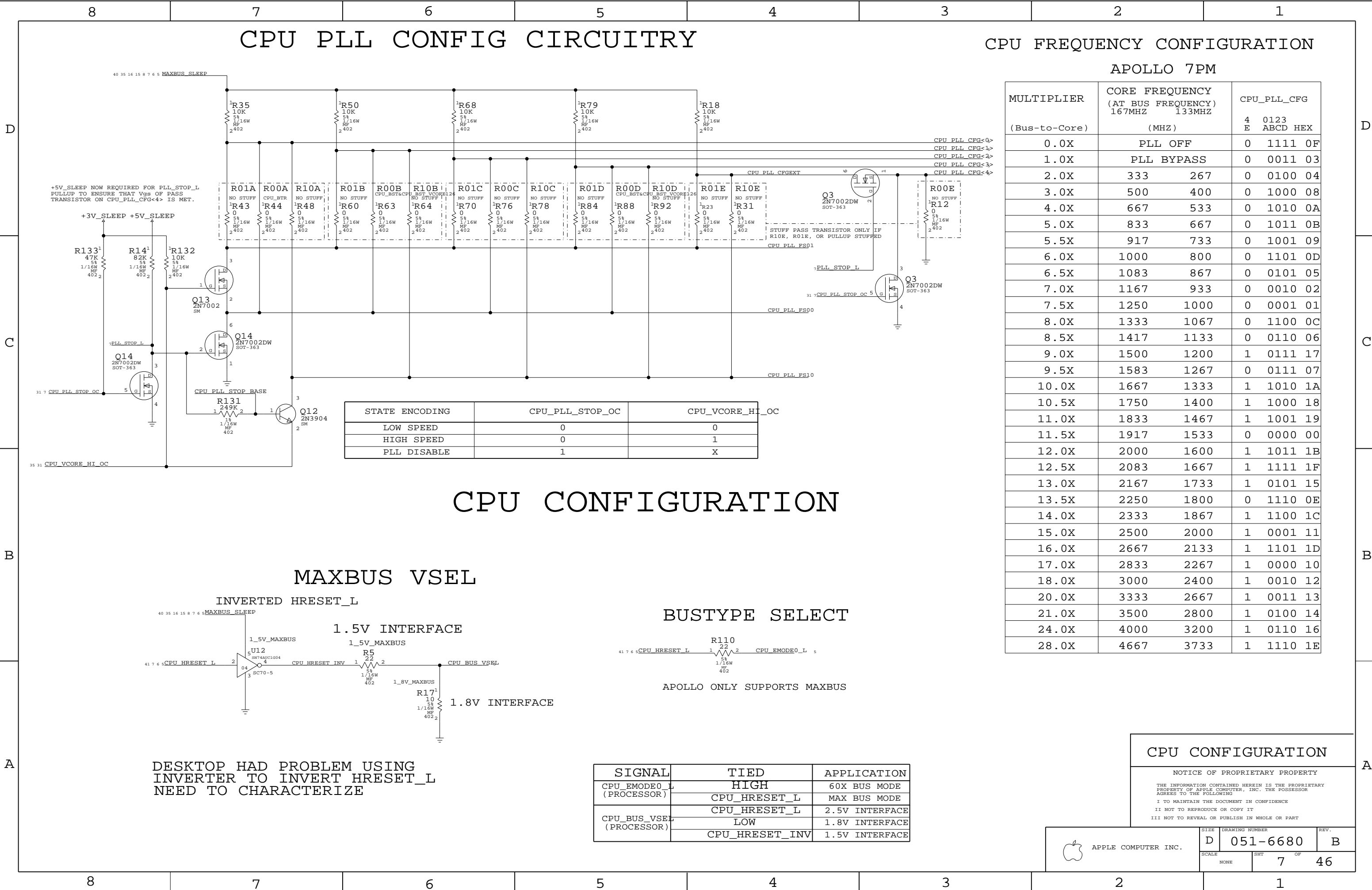


APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE NONE	SHT 4 OF	46



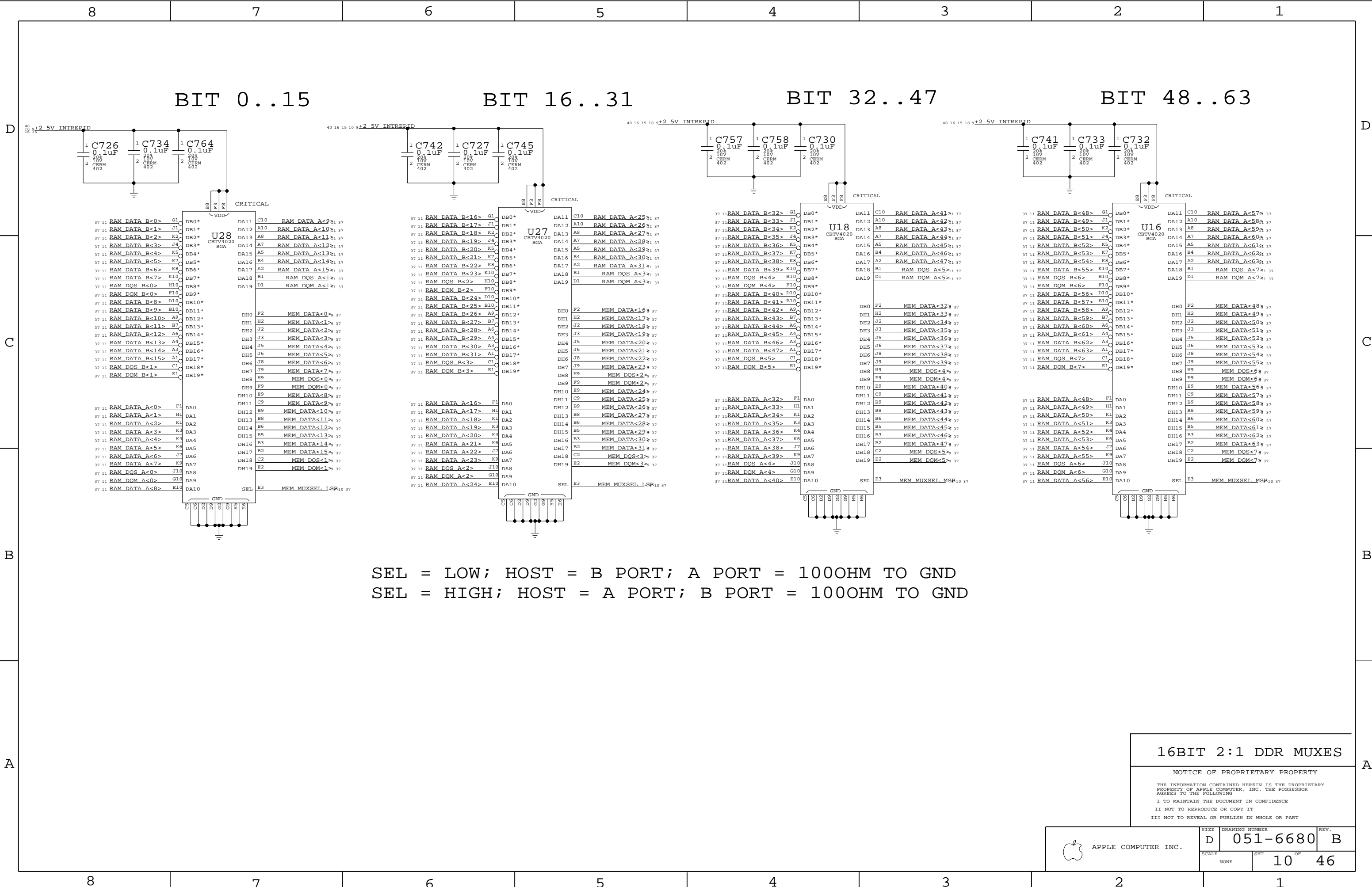












SEL = LOW; HOST = B PORT; A PORT = 100OHM TO GND  
SEL = HIGH; HOST = A PORT; B PORT = 100OHM TO GND

16BIT 2:1 DDR MUXES

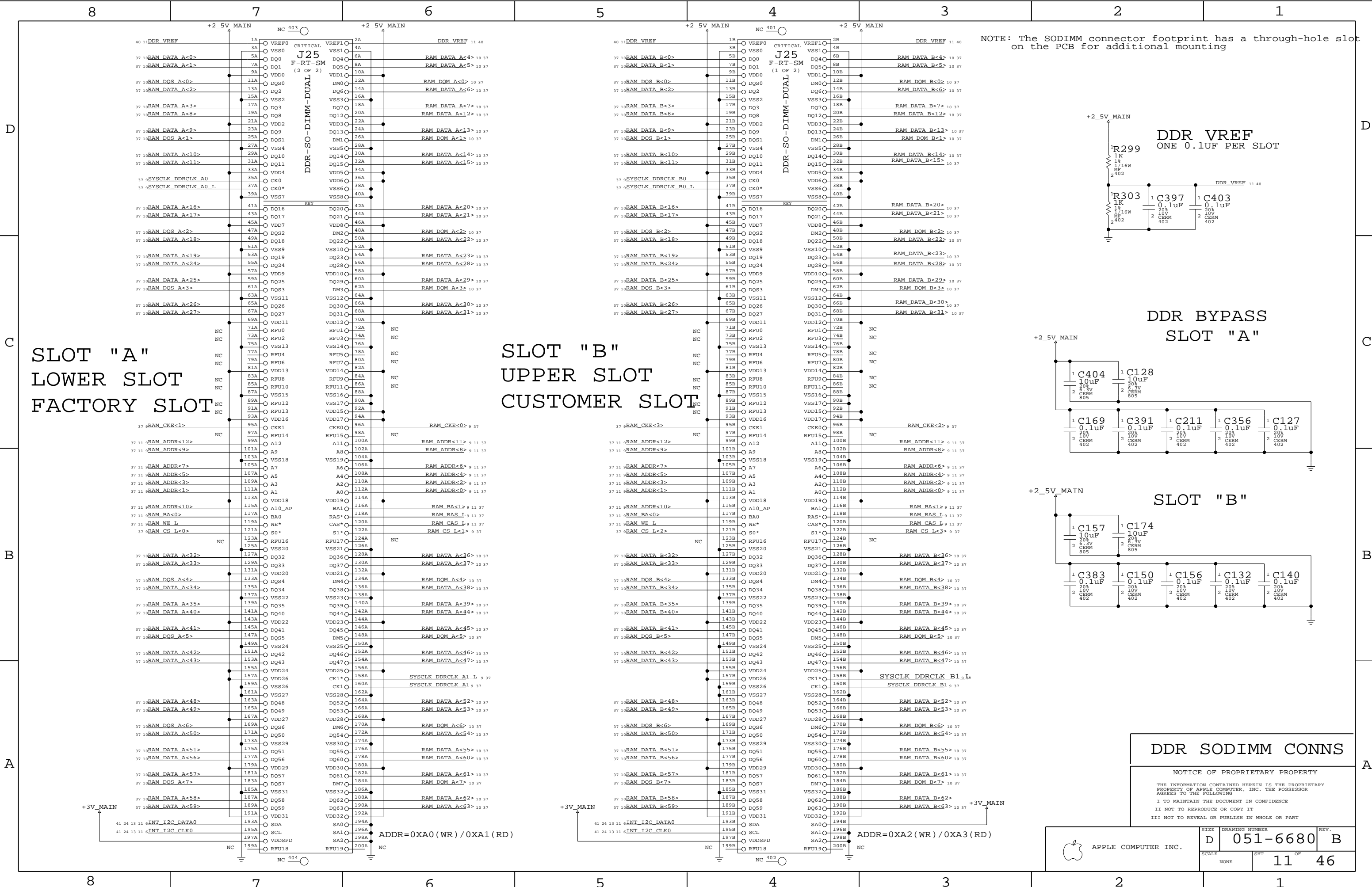
NOTICE OF PROPRIETARY PROPERTY

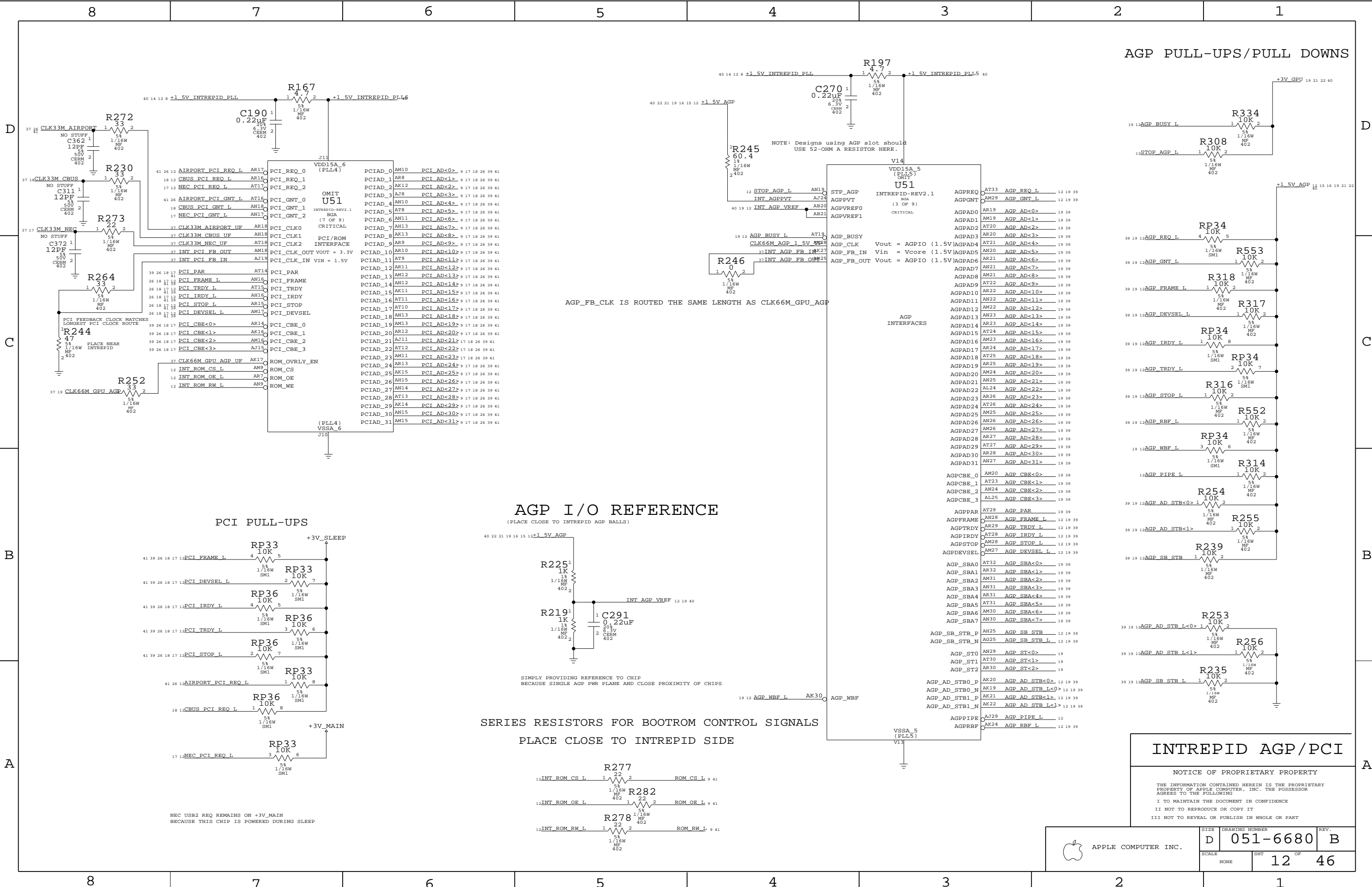
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SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE	SHT	OF
NONE	10	46





AGP PULL-UPS/PULL DOWNS

INTREPID AGP/PCI

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	D	051-6680	B
SCALE	SHT		OF
	NONE		12 46

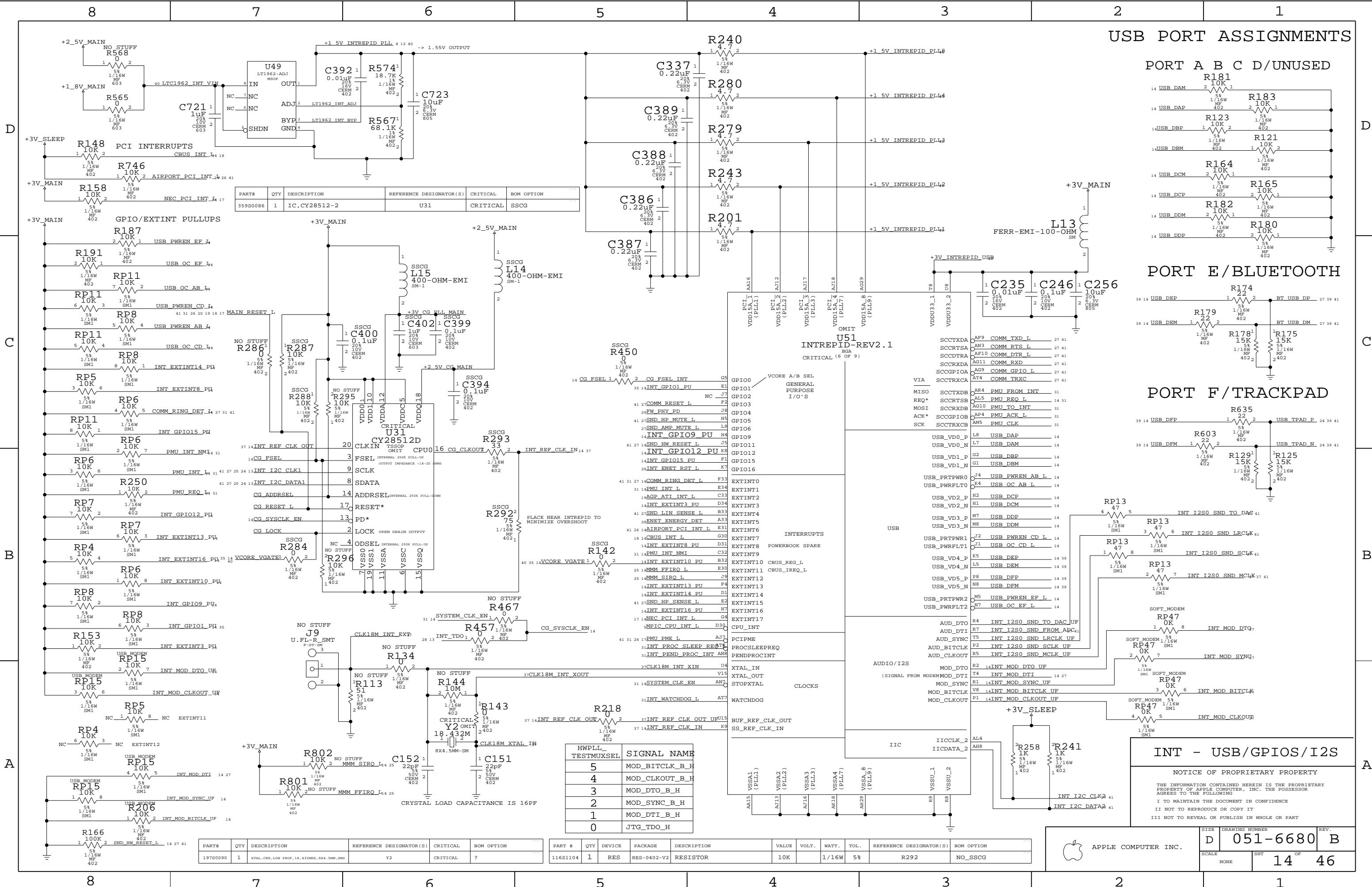
AGP I/O REFERENCE

(PLACE CLOSE TO INTREPID AGP BALLS)

SERIES RESISTORS FOR BOOTROM CONTROL SIGNALS

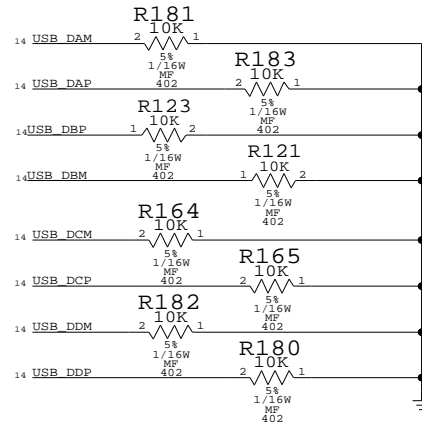
PLACE CLOSE TO INTREPID SIDE



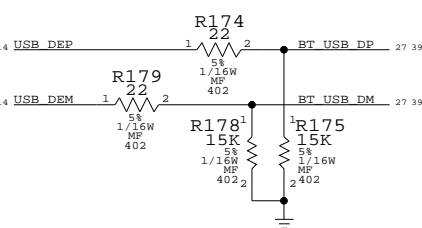


USB PORT ASSIGNMENTS

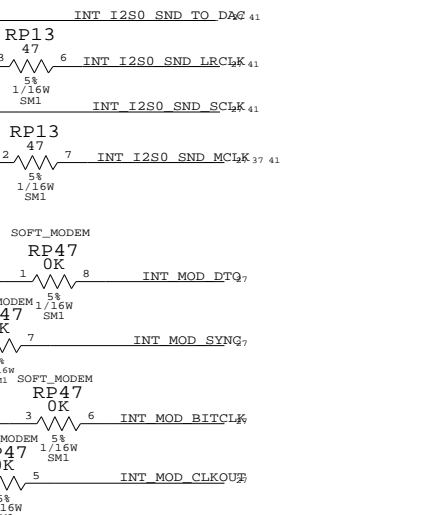
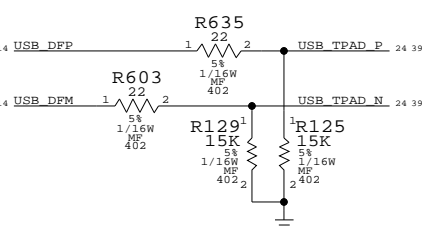
PORT A B C D/UNUSED



PORT E/BLEETOOTH



PORT F/TRACKPAD



INT - USB/GPIOS/I2S

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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
359S0086	1	IC,CY28512-2	U31	CRITICAL	SSCG

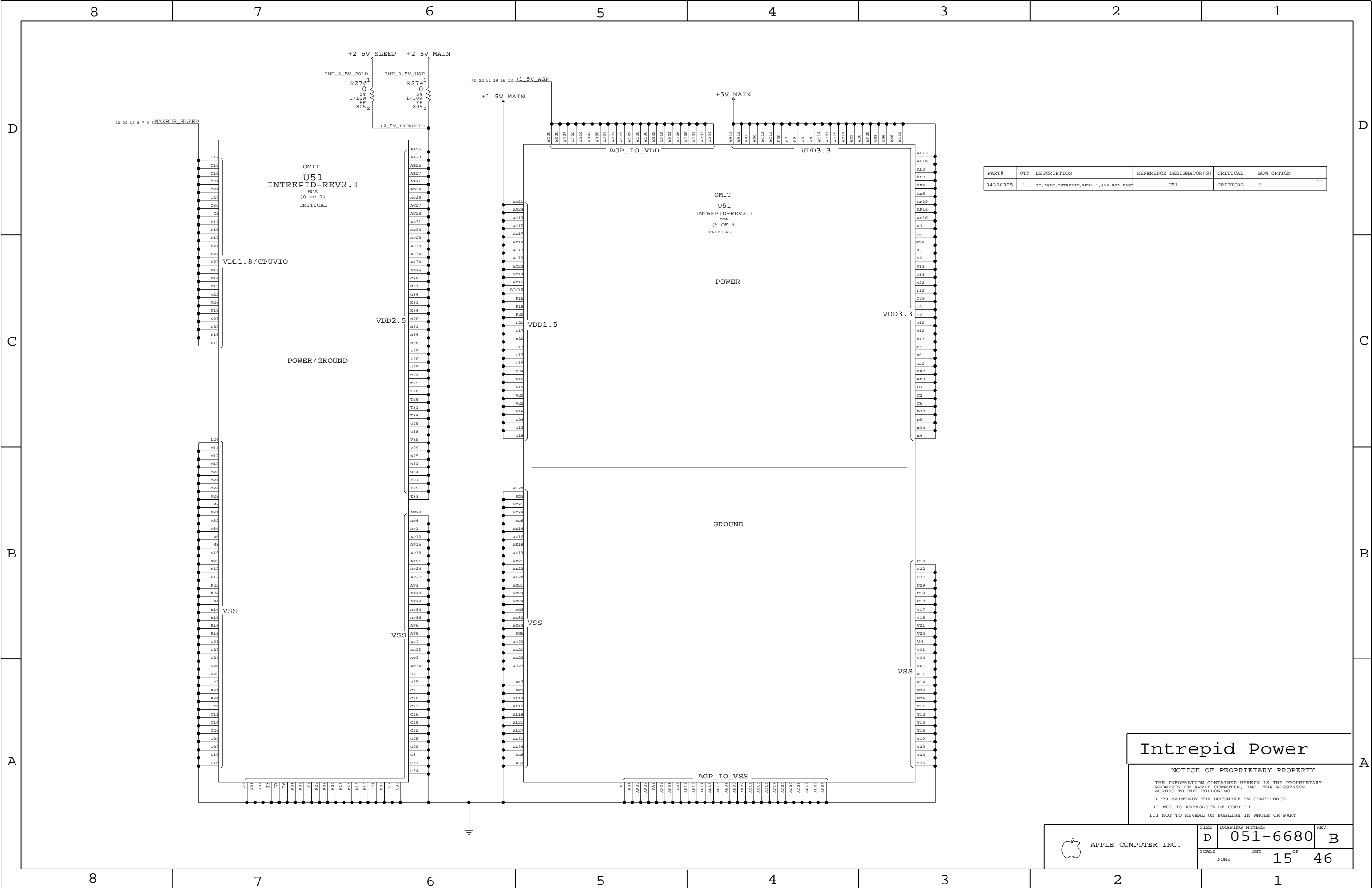
HWPLL TESTMUXSEL	SIGNAL NAME
5	MOD_BITCLK_B_H
4	MOD_CLKOUT_B_H
3	MOD_DTO_B_H
2	MOD_SYNC_B_H
1	MOD_DTI_B_H
0	JTG_TDO_H

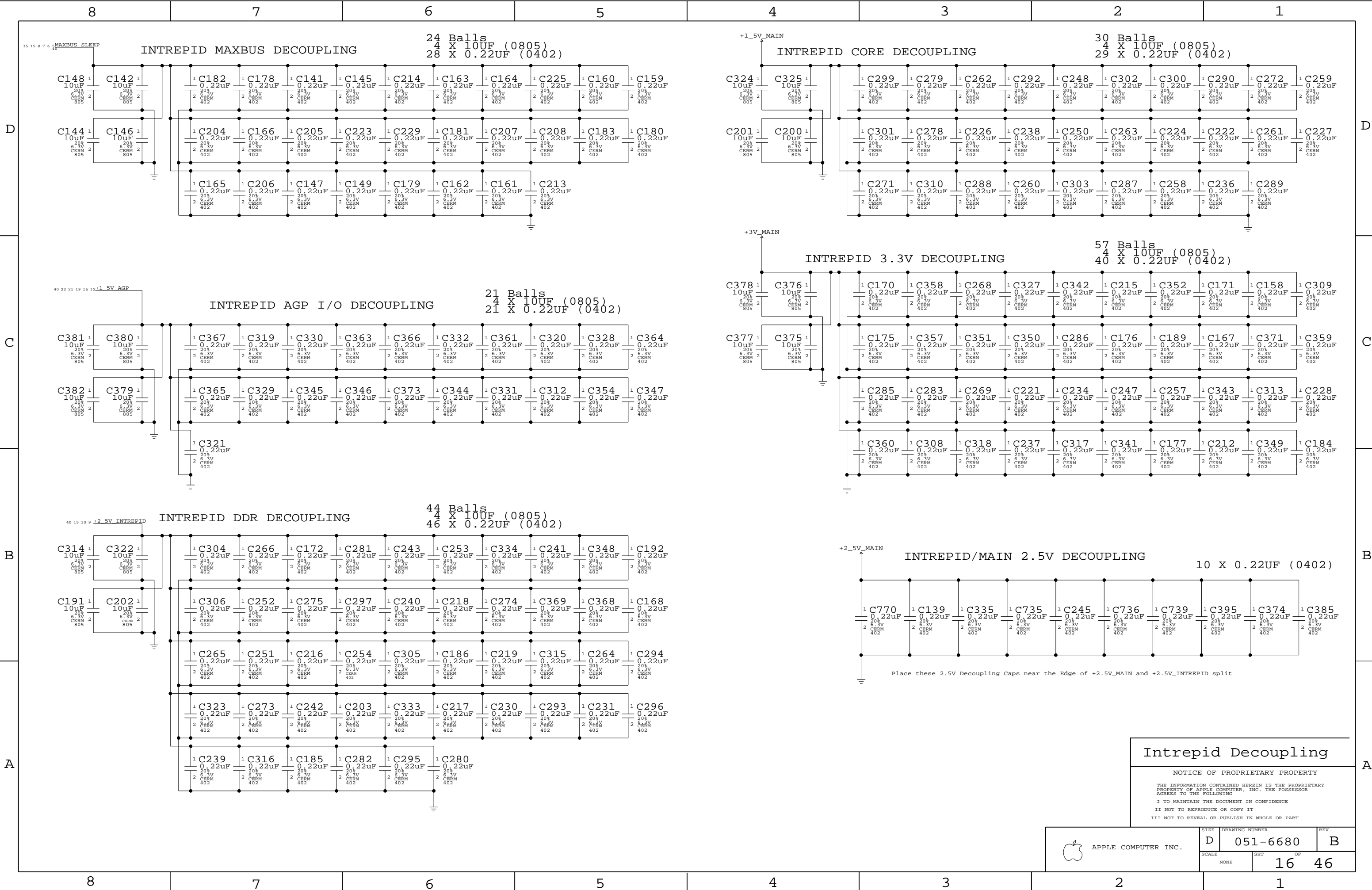
PART #	QTY	DEVICE	PACKAGE	DESCRIPTION	VALUE	VOLT.	WATT.	TOL.	REFERENCE DESIGNATOR(S)	BOM OPTION
116S1104	1	RES	RES-0402-V2	RESISTOR	10K		1/16W	5%	R292	NO_SSCG

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
197S0090	1	XTAL,CER,LOW PROF,18.432MHZ,8X4.5MM,SMD	Y2	CRITICAL	?

 APPLE COMPUTER INC.

SIZE	D	DRAWING NUMBER	051-6680	REV.	B
SCALE	NONE	SHT	14	OF	46





Intrepid Decoupling

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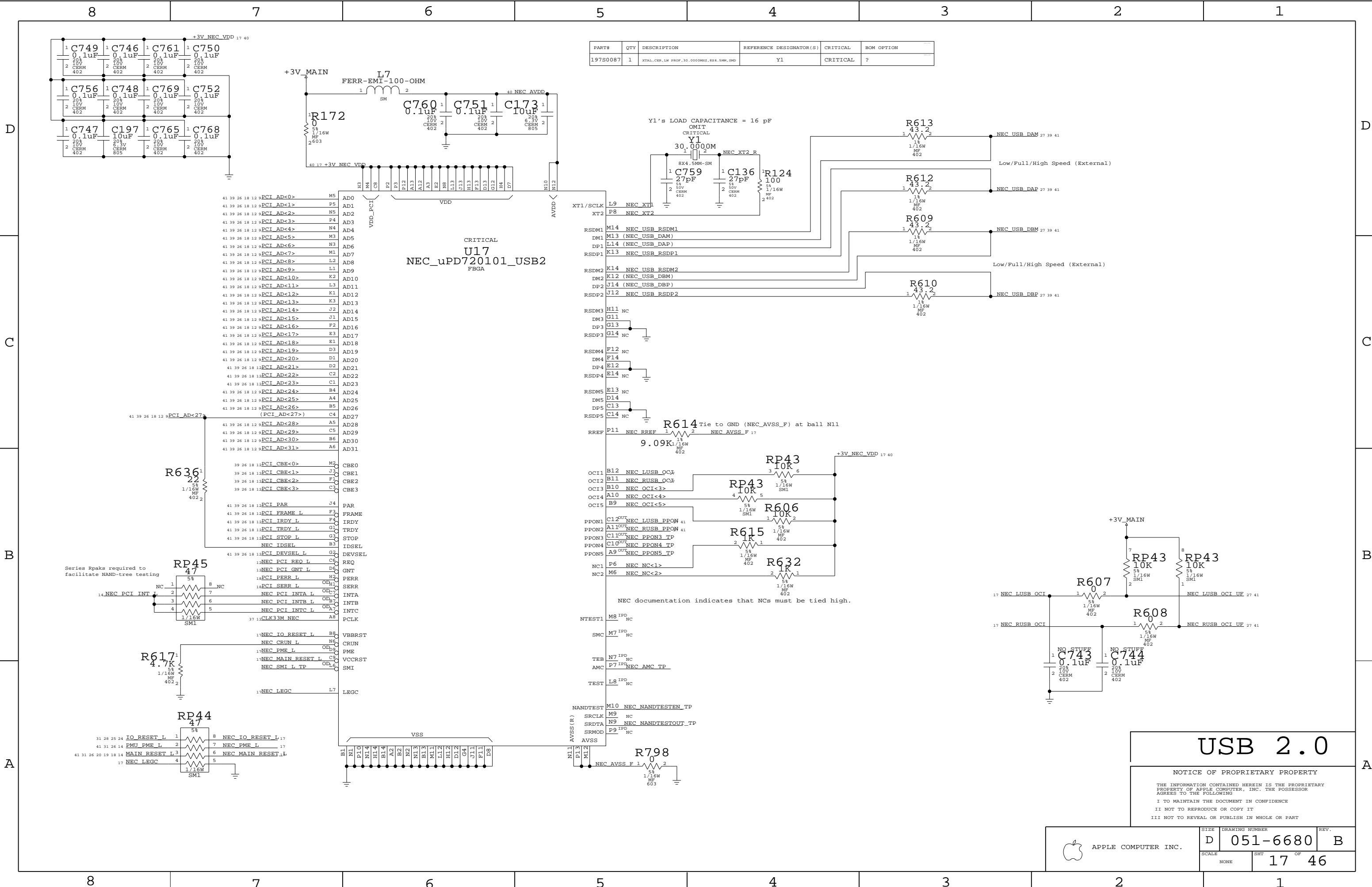
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6680	B
SCALE		SHT	OF
NONE		16	46





PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
197S0087	1	XTAL, CER, 16 MHZ, 30.0000MHZ, 8X4.5MM, SMD	Y1	CRITICAL	?

USB 2.0

NOTICE OF PROPRIETARY PROPERTY

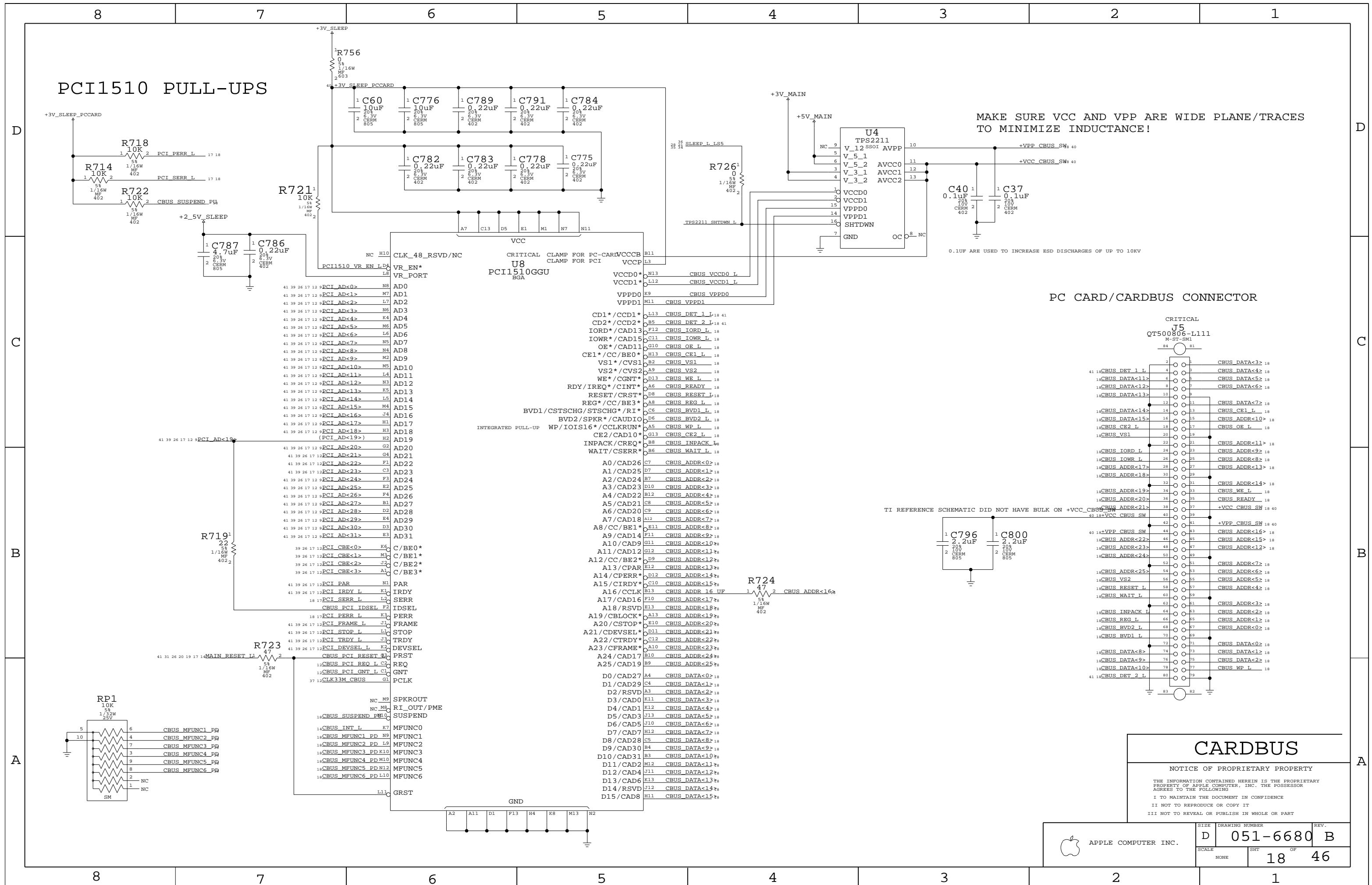
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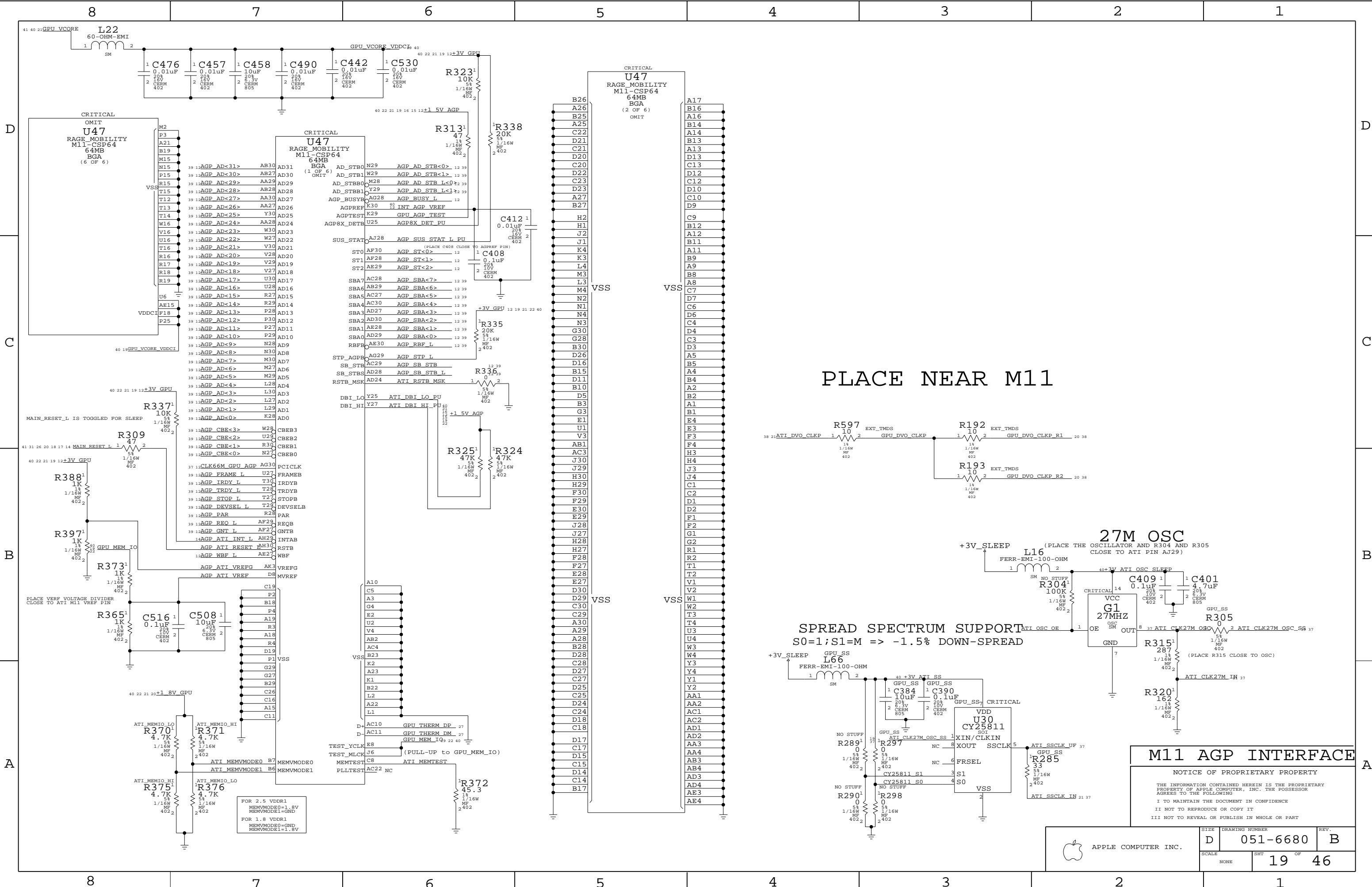
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

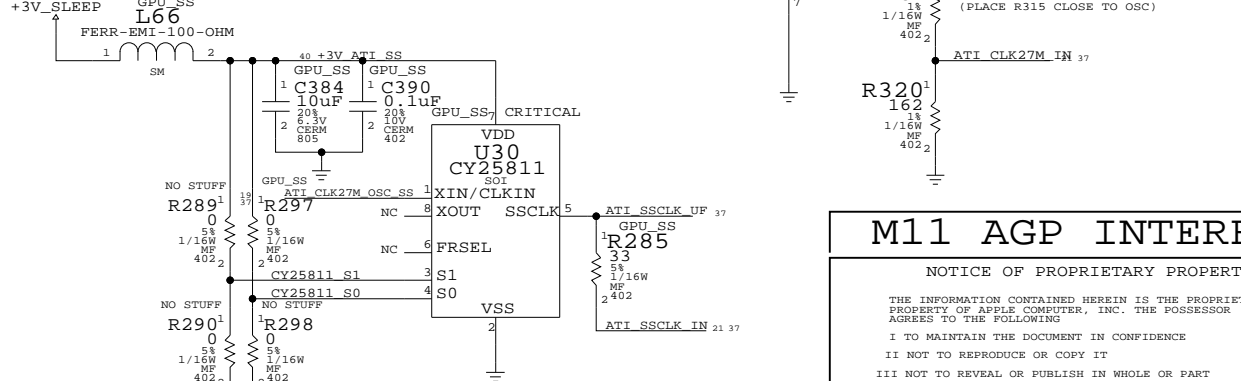
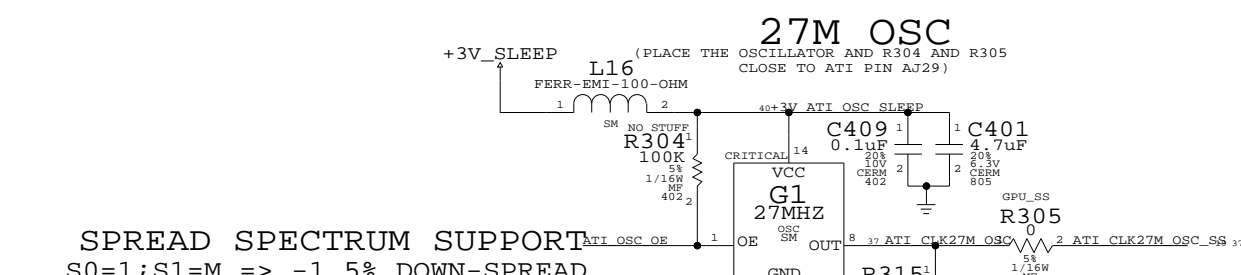
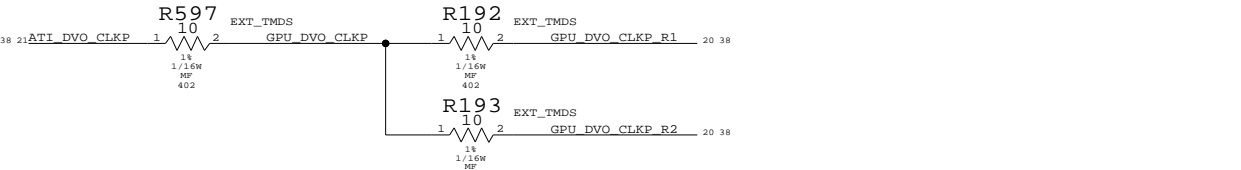
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6680	B
SCALE	NONE		SHT
	17		OF 46



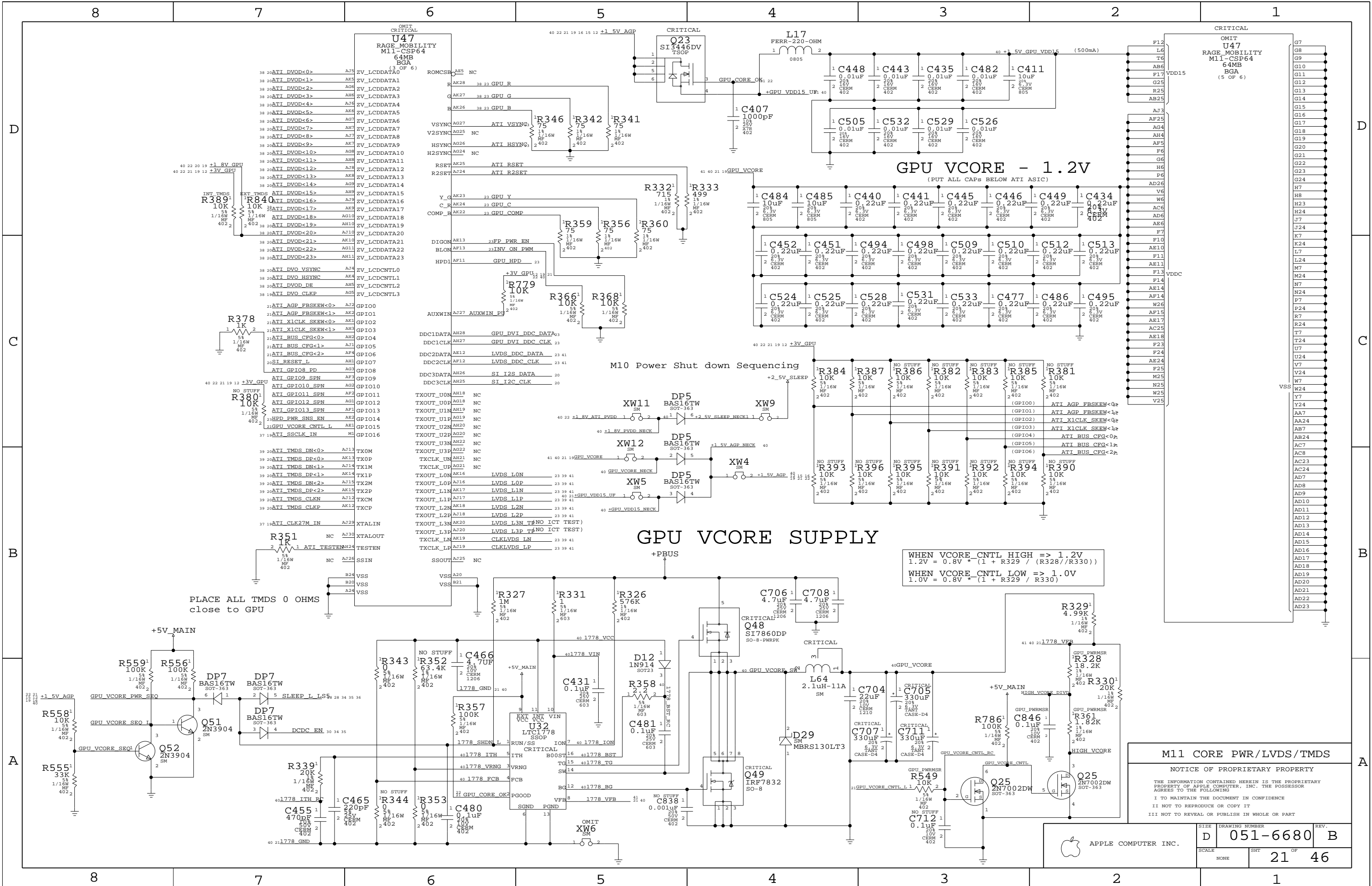


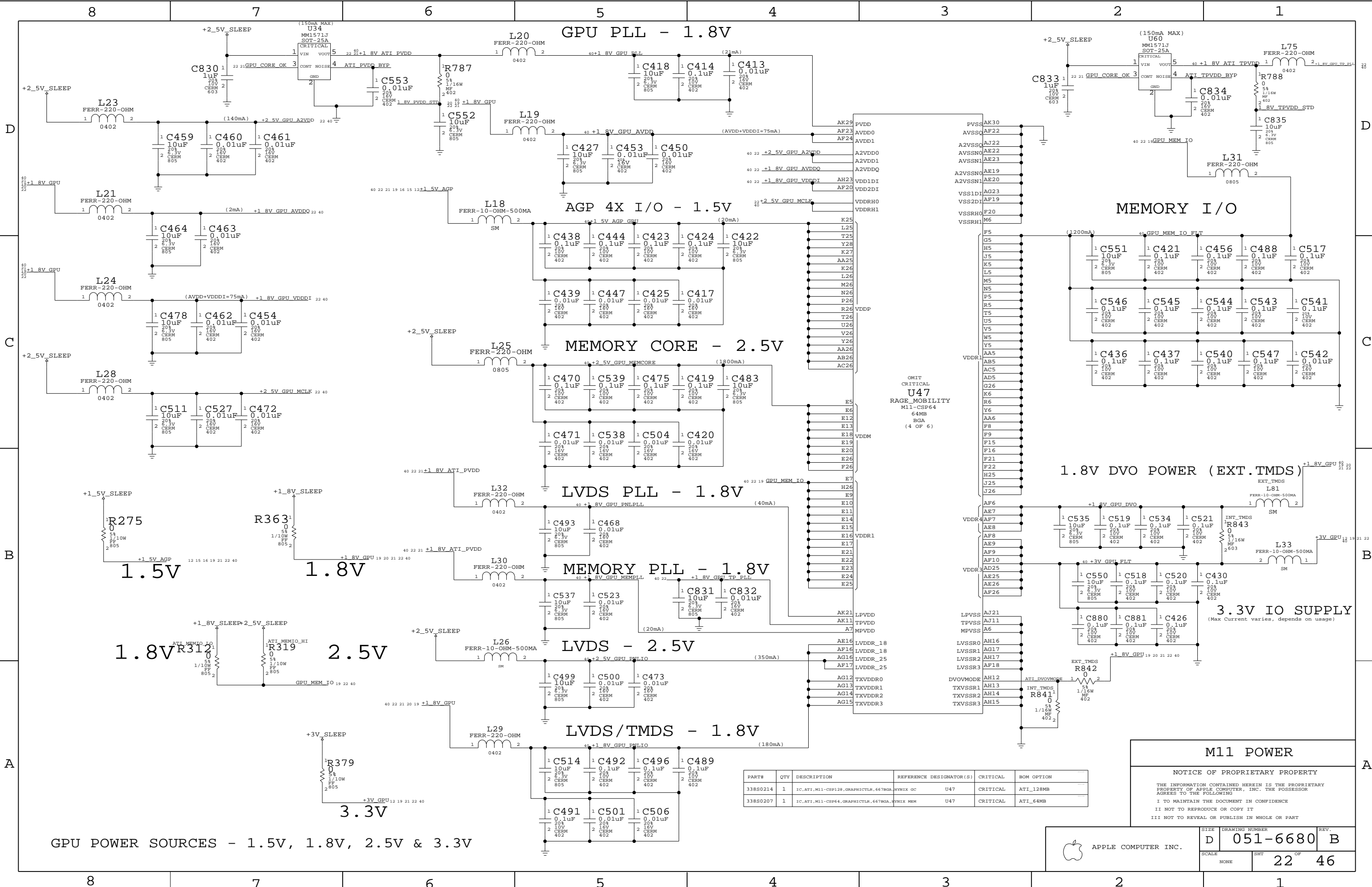
PLACE NEAR M11



APPLE COMPUTER INC.		SIZE	DRAWING NUMBER	REV.
		D	051-6680	B
		SCALE	SHT	OF
		NONE	19	46







PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S0214	1	IC,ATI,M11-CS128,GRAPHICCTL,667BGA,HYNIX GC	U47	CRITICAL	ATI_128MB
338S0207	1	IC,ATI,M11-CSP64,GRAPHICCTL,667BGA,HYNIX MEM	U47	CRITICAL	ATI_64MB

M11 POWER

NOTICE OF PROPRIETARY PROPERTY

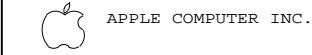
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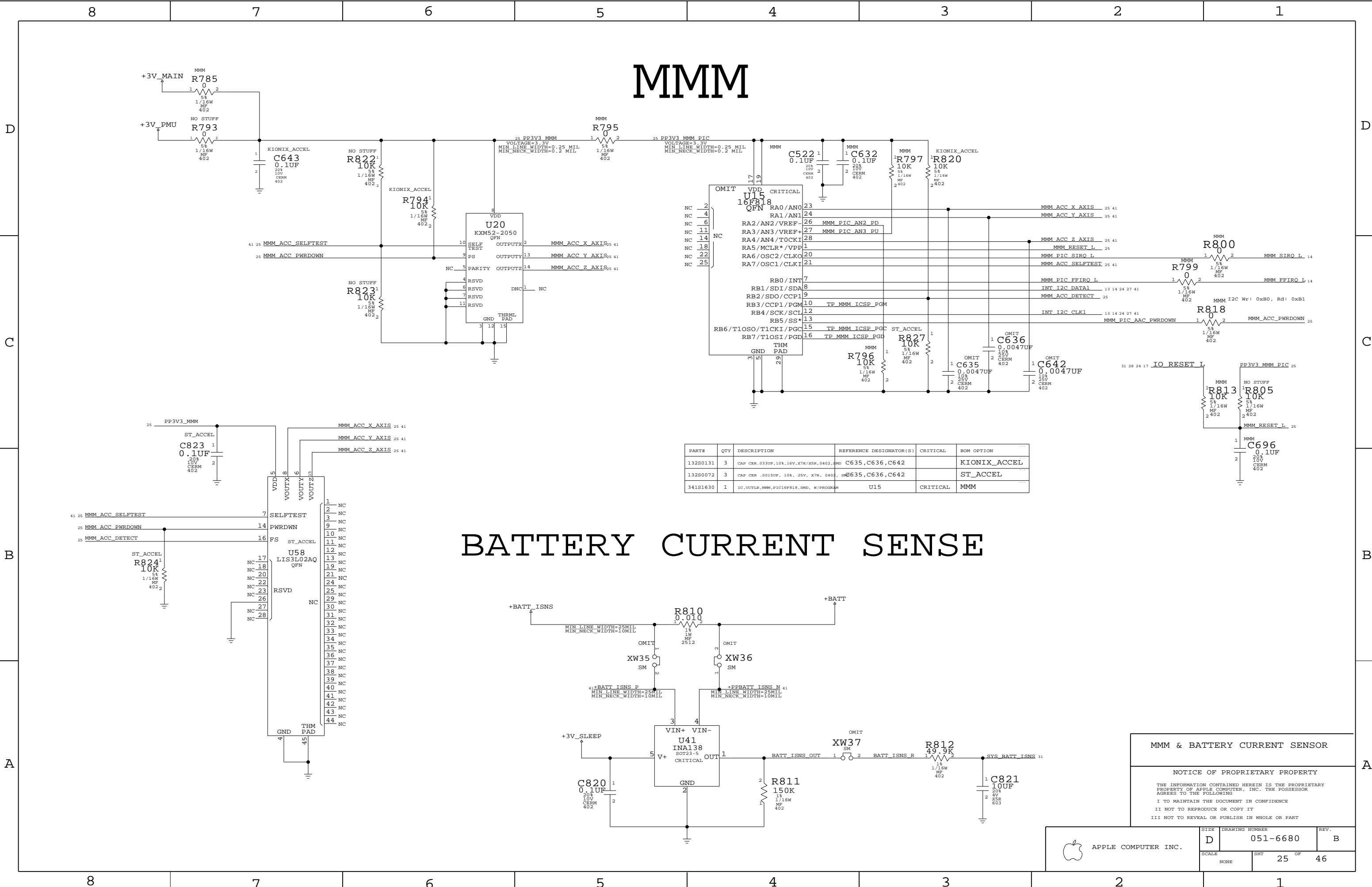
SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE	SHT	22 OF 46
NONE		











MMM

BATTERY CURRENT SENSE

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
132S0131	3	CAP CER .03UF, 10%, 16V, X7R, 0402, SMD	C635, C636, C642		KIONIX_ACCEL
132S0072	3	CAP CER .0015UF, 10%, 25V, X7R, 0402, SMD	C635, C636, C642		ST_ACCEL
341S1630	1	IC, UCTLA, MMM, PIC16F818, SMD, W/PROGRAM	U15	CRITICAL	MMM

MMM & BATTERY CURRENT SENSOR

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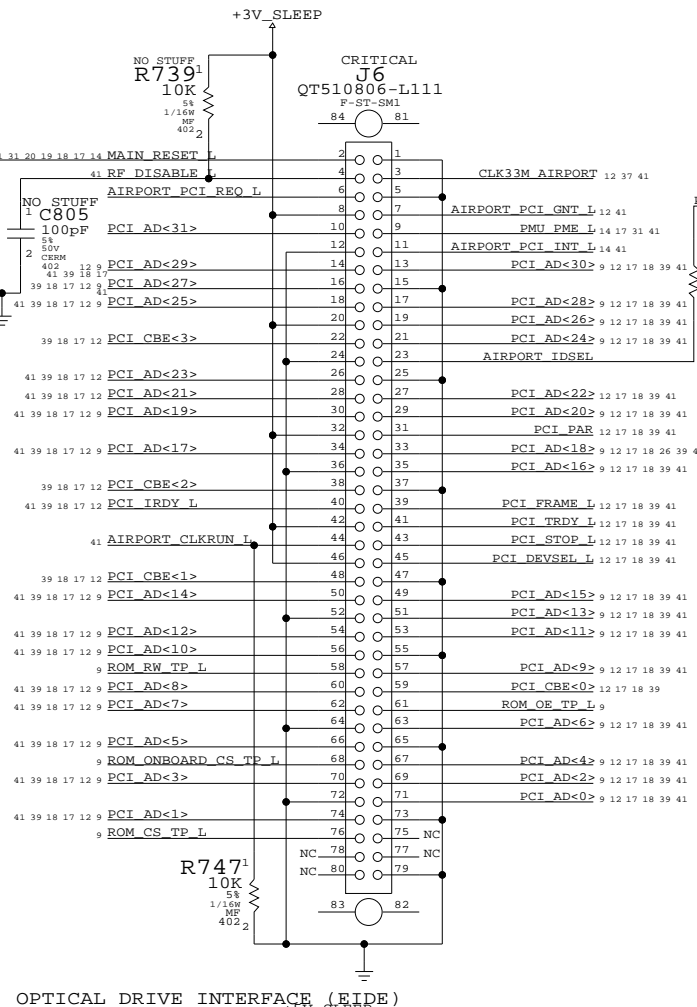
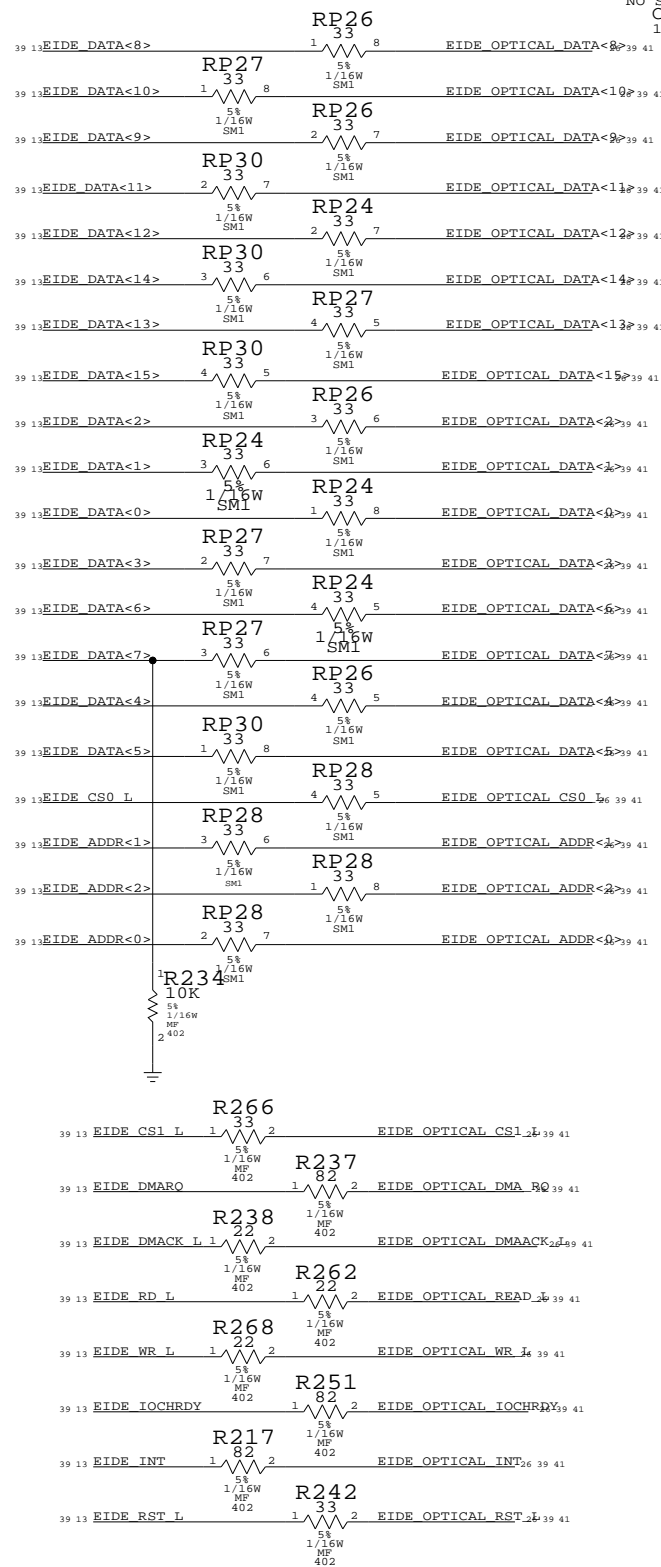
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6680	B
SCALE	NONE	SHT	25 OF 46

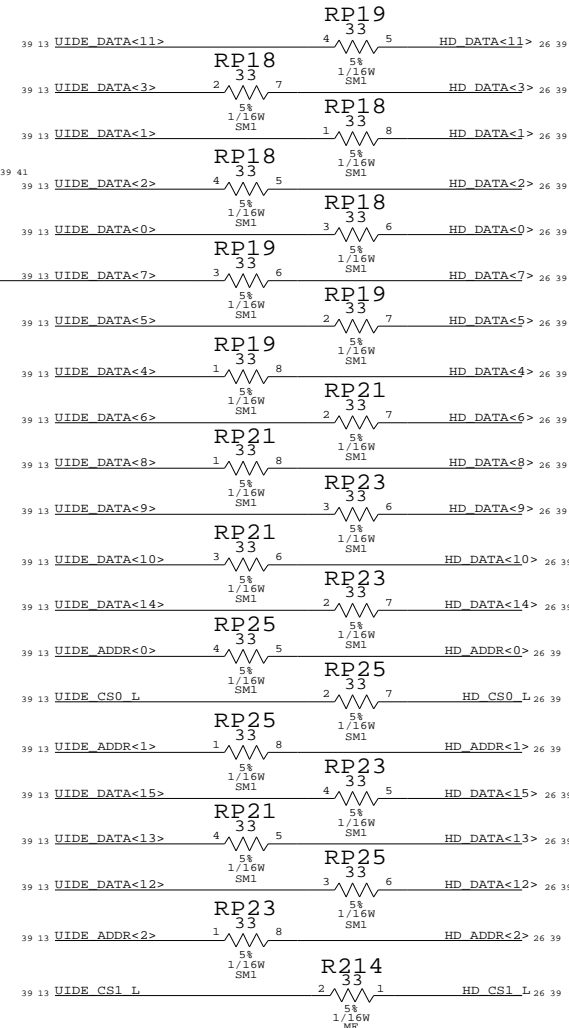
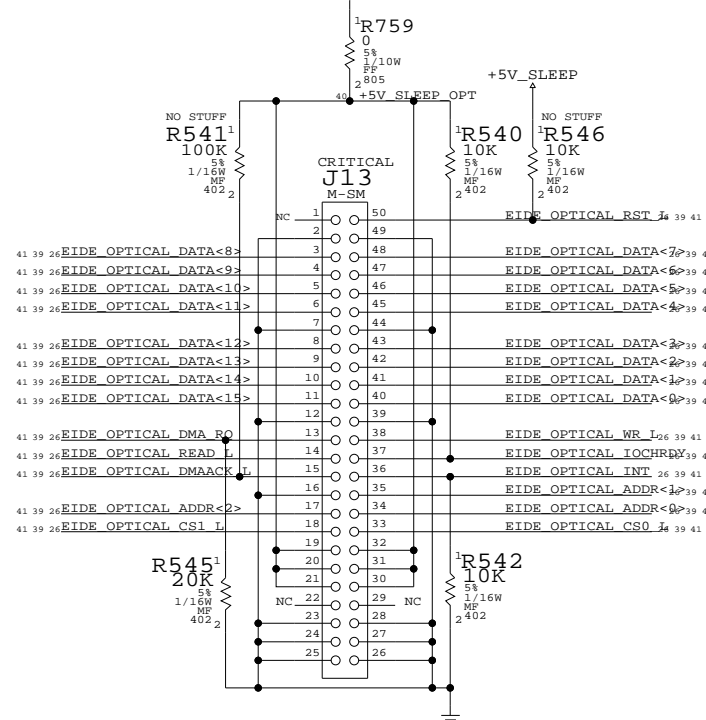
# WIRELESS INTERFACE

## HARD DRIVE INTERFACE (UATA100)

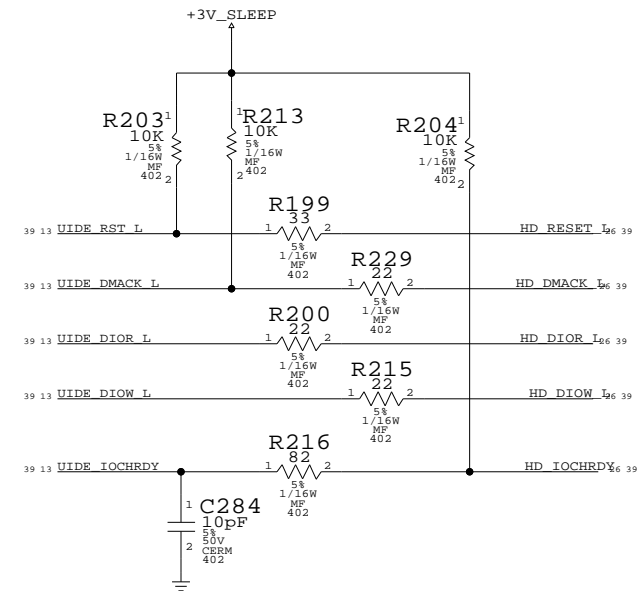
PLACE SERIES R CLOSE TO INTERPID



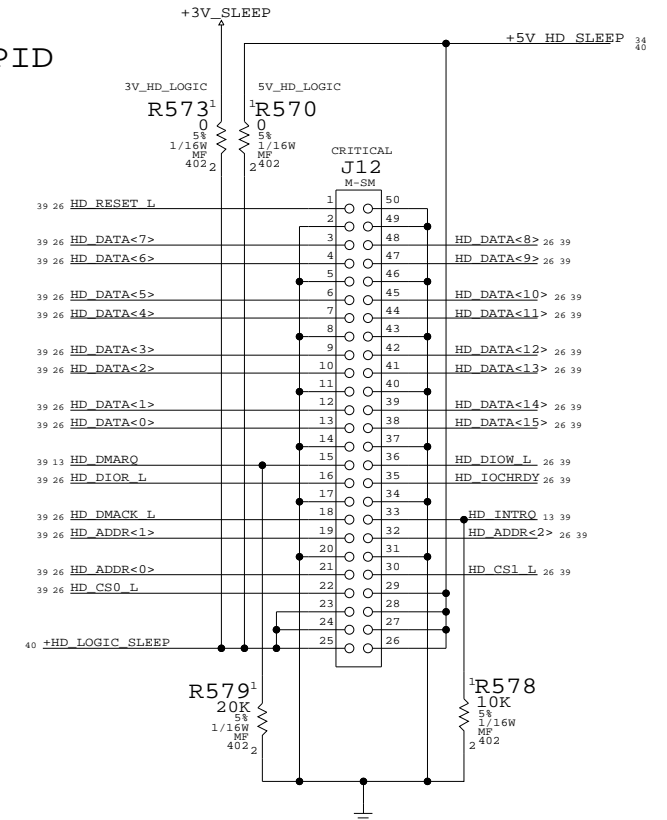
## OPTICAL DRIVE INTERFACE (EIDE)



PLACE PULLUP RESISTORS CLOSE TO INTREPID



IOCHRDY - UATA100 REQUIRES PULL-UP TO 3.3V



ANY SEQUENCING REQUIREMENT BETWEEN  
+5V\_HD\_SLEEP AND +3V\_SLEEP

## INTERNAL I/O CONNECTORS

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SIZE	DRAWING NUMBER	REV.
------	----------------	------

D	051-6680	B
---	----------	---

SCALE	SHT	OF
NONE	26	46

LEFT I/O & AUDIO BOARD (LIO)

RIGHT USB BOARD

SOFT MODEM CONN

SERIAL DEBUG INTERFACE

FAN INTERFACE  
FAN CONTROLLER

CPU FAN

GPU FAN

FAN/MODEM/SOUND/BACKUP BATT.

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SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE	SHT	OF
NONE	27	46

D

D

C

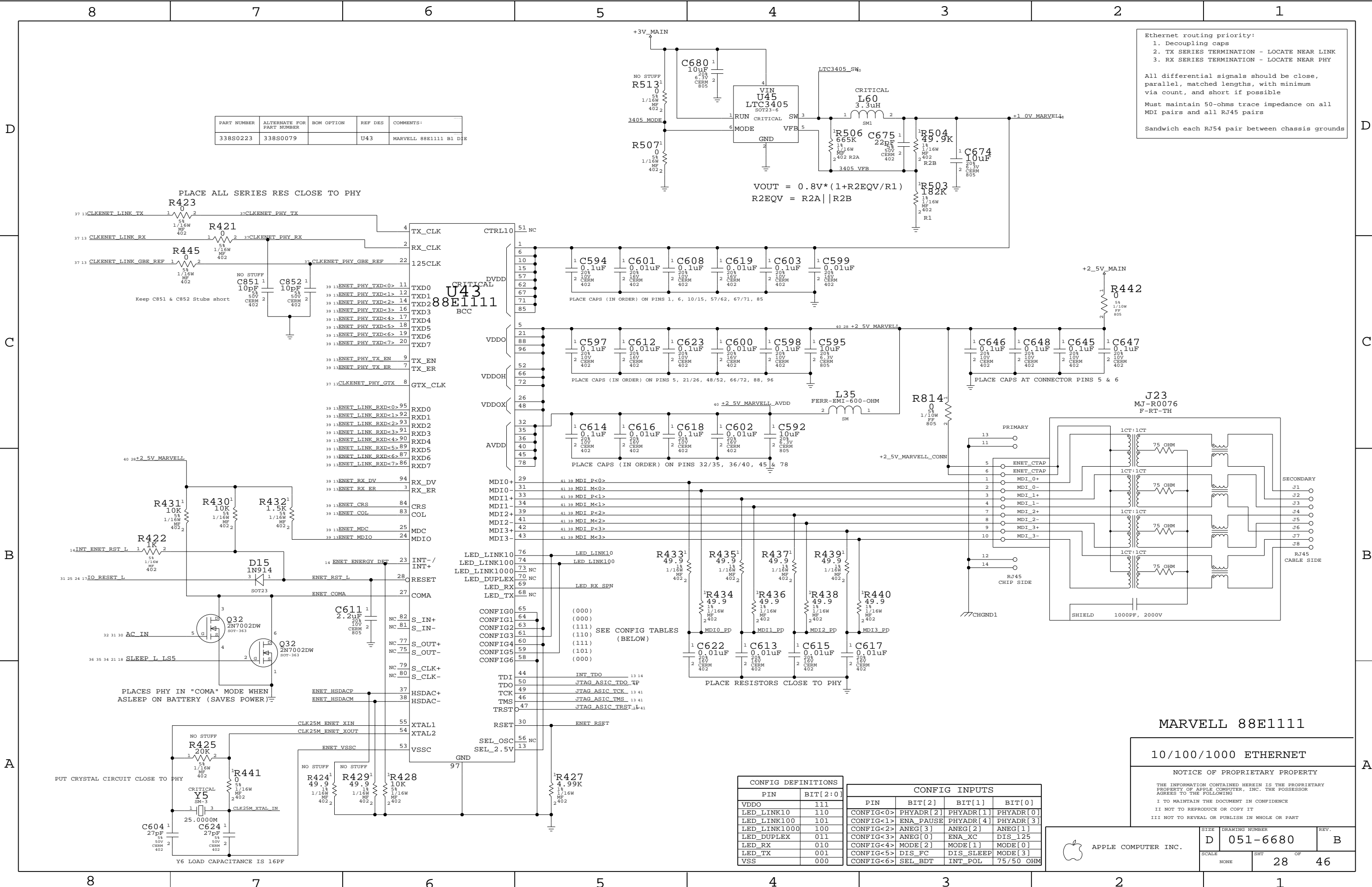
C

B

B

A

A



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
338S0223	338S0079		U43	MARVELL 88E1111 B1 DIE

Ethernet routing priority:  
1. Decoupling caps  
2. TX SERIES TERMINATION - LOCATE NEAR LINK  
3. RX SERIES TERMINATION - LOCATE NEAR PHY

All differential signals should be close, parallel, matched lengths, with minimum via count, and short if possible

Must maintain 50-ohms trace impedance on all MDI pairs and all RJ45 pairs

Sandwich each RJ54 pair between chassis grounds

CONFIG DEFINITIONS		CONFIG INPUTS			
PIN	BIT[2:0]	PIN	BIT[2]	BIT[1]	BIT[0]
VDDO	111	CONFIG<0>	PHYADR[2]	PHYADR[1]	PHYADR[0]
LED_LINK10	110	CONFIG<1>	ENA_PAUSE	PHYADR[4]	PHYADR[3]
LED_LINK100	101	CONFIG<2>	ANEG[3]	ANEG[2]	ANEG[1]
LED_LINK1000	100	CONFIG<3>	ANEG[0]	ENA_XC	DIS_125
LED_DUPLEX	011	CONFIG<4>	MODE[2]	MODE[1]	MODE[0]
LED_RX	010	CONFIG<5>	DIS_FC	DIS_SLEEP	MODE[3]
LED_TX	001	CONFIG<6>	SEL_BDT	INT_POL	75/50 OHM
VSS	000				

MARVELL 88E1111

10/100/1000 ETHERNET

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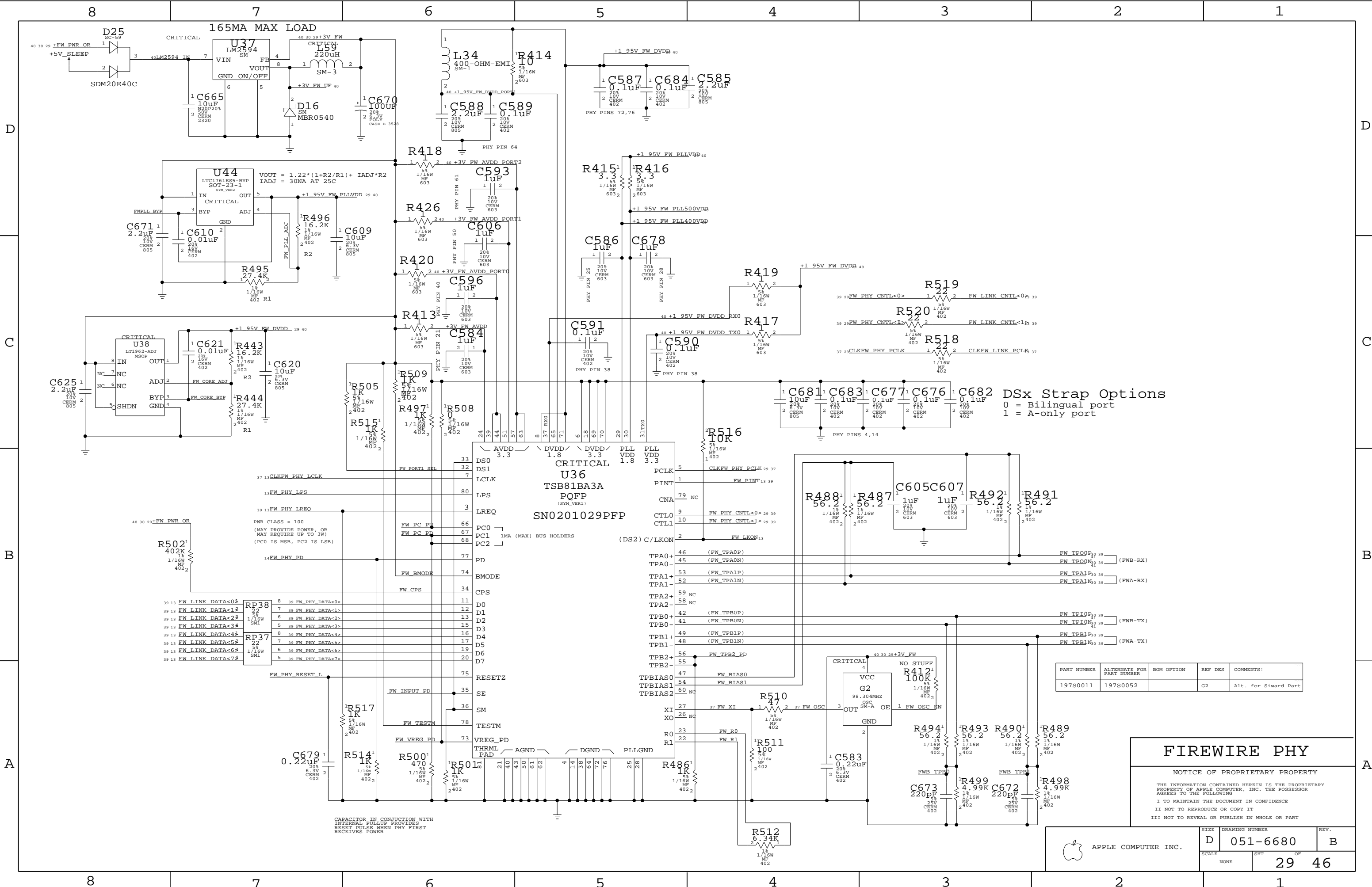
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SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE	SHT	OF
NONE	28	46



DSx Strap Options  
0 = Bilingual port  
1 = A-only port

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0011	197S0052		G2	Alt. for Siward Part

FIREWIRE PHY

NOTICE OF PROPRIETARY PROPERTY

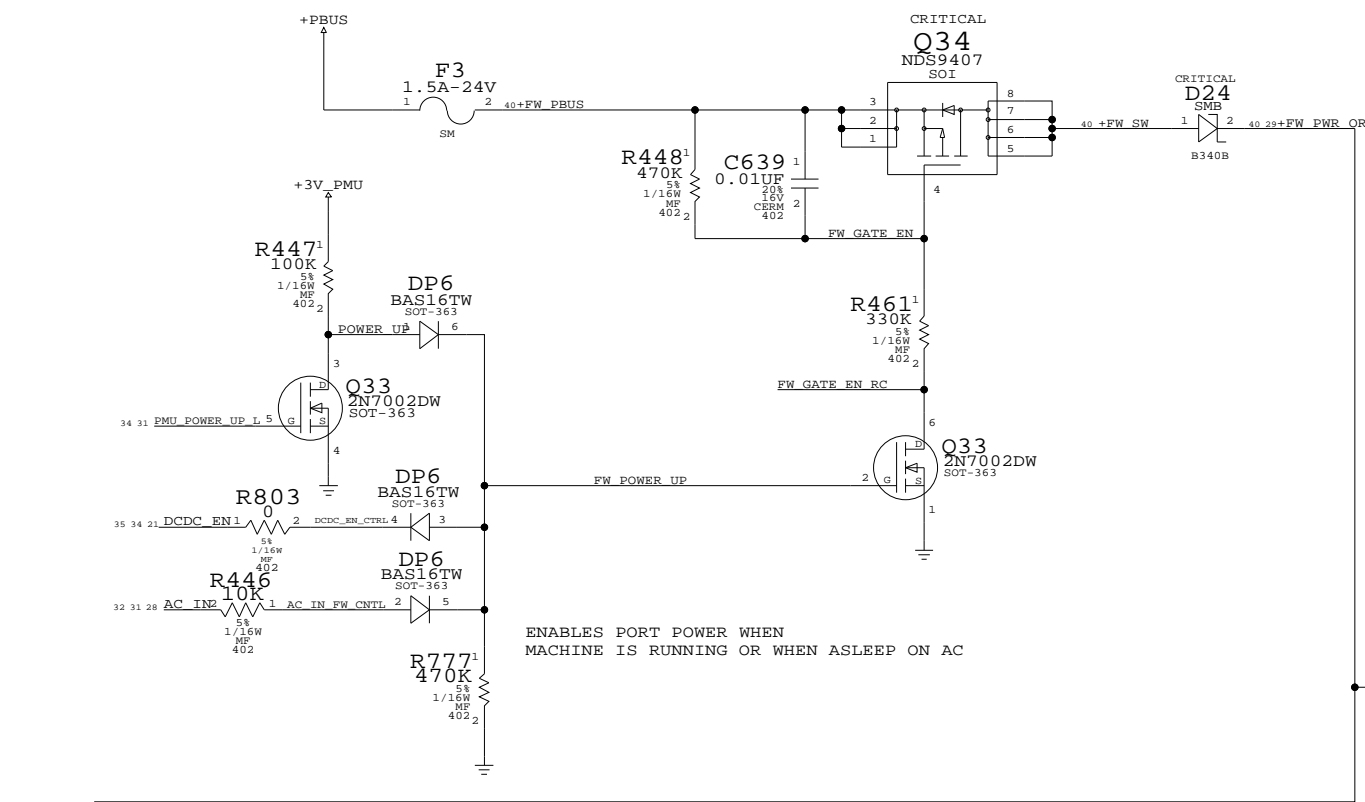
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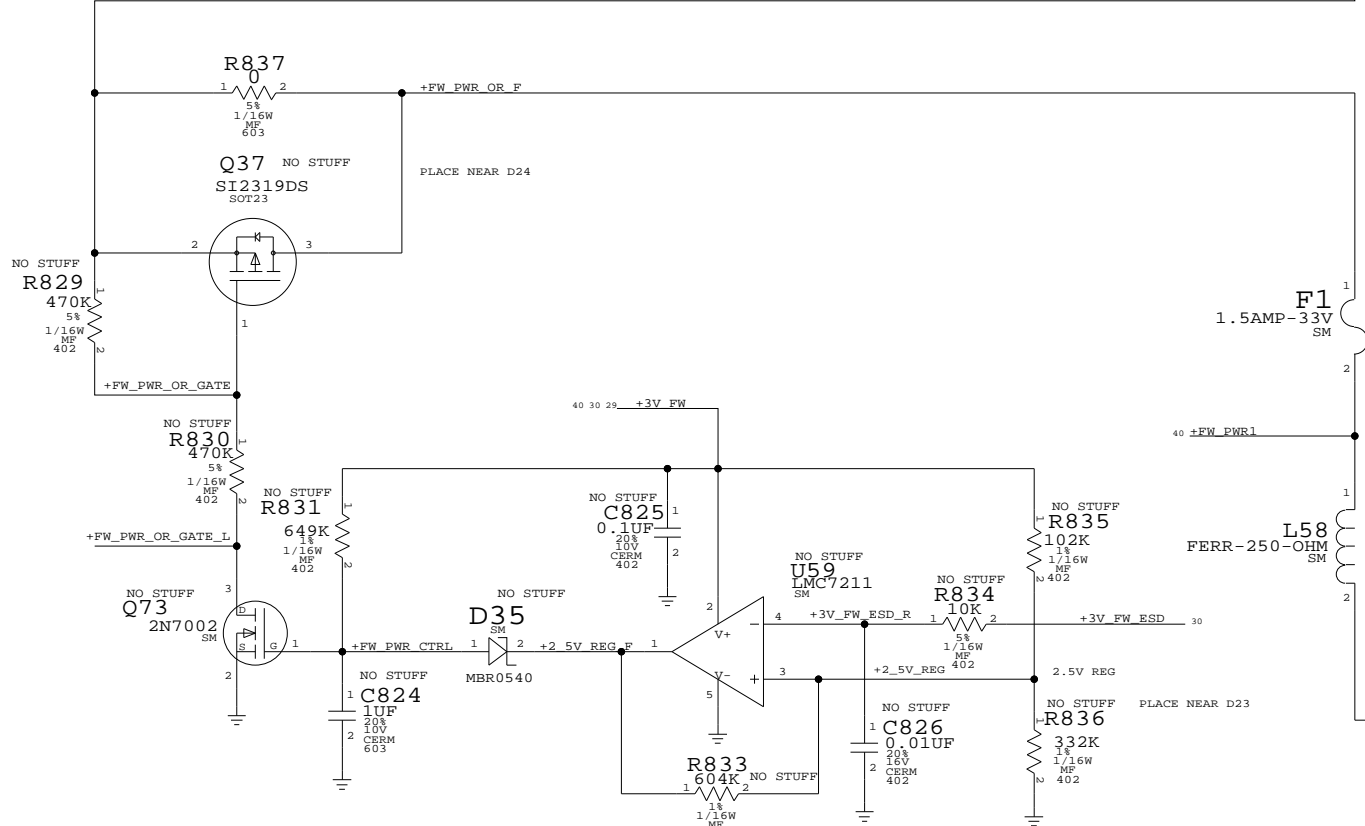
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

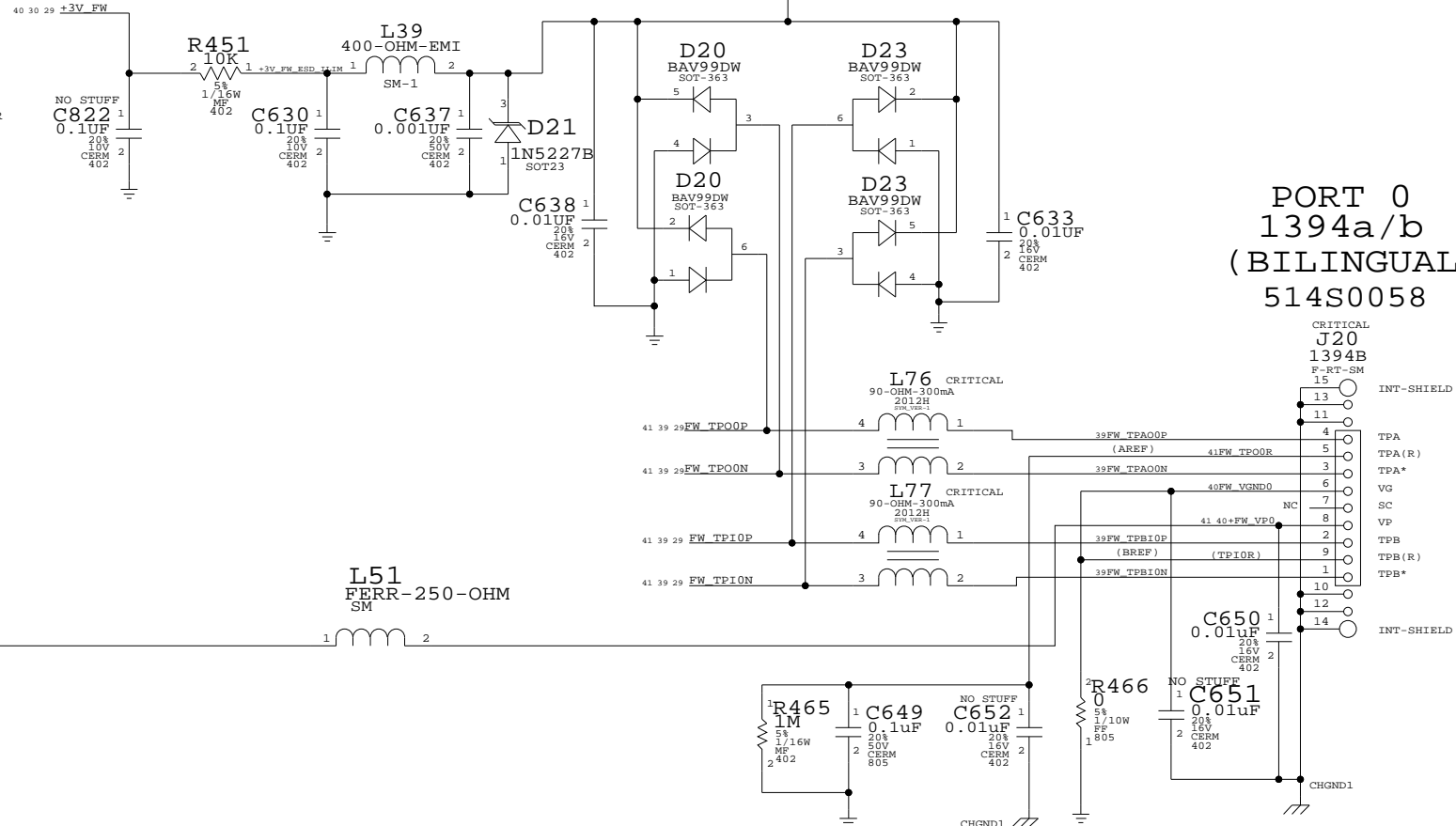
PORT POWER SWITCH



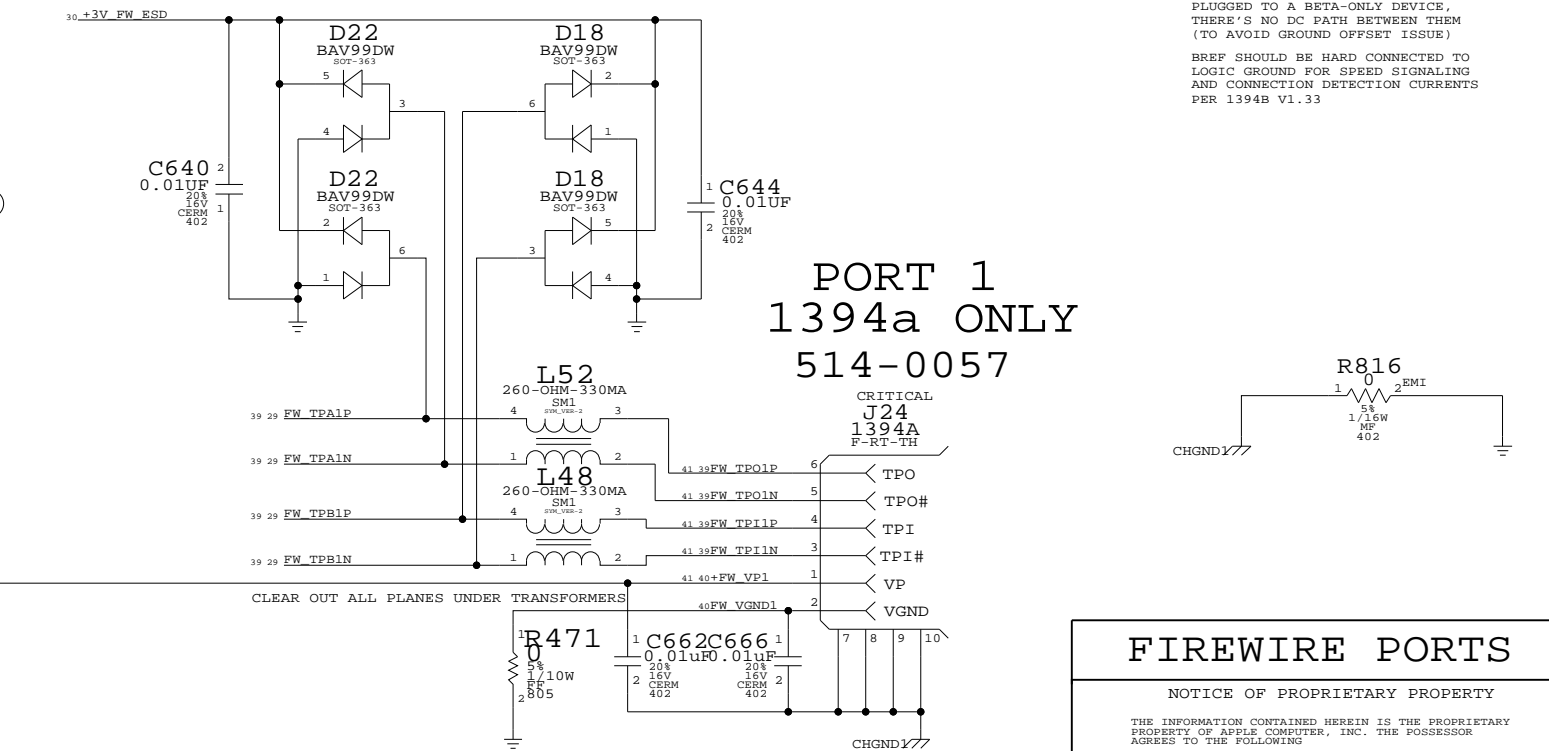
ENABLES PORT POWER WHEN  
MACHINE IS RUNNING OR WHEN ASLEEP ON AC



2.5V REG: 2.50V - 2.15V  
200MS - 500MS



AREF NEEDS TO BE ISOLATED FROM  
ALL LOCAL GROUNDS PER 1394B SPEC  
SO WHEN A BILINGUAL DEVICE IS  
PLUGGED TO A BETA-ONLY DEVICE,  
THERE'S NO DC PATH BETWEEN THEM  
(TO AVOID GROUND OFFSET ISSUE)  
BREF SHOULD BE HARD CONNECTED TO  
LOGIC GROUND FOR SPEED SIGNALING  
AND CONNECTION DETECTION CURRENTS  
PER 1394B V1.33



FIREWIRE PORTS

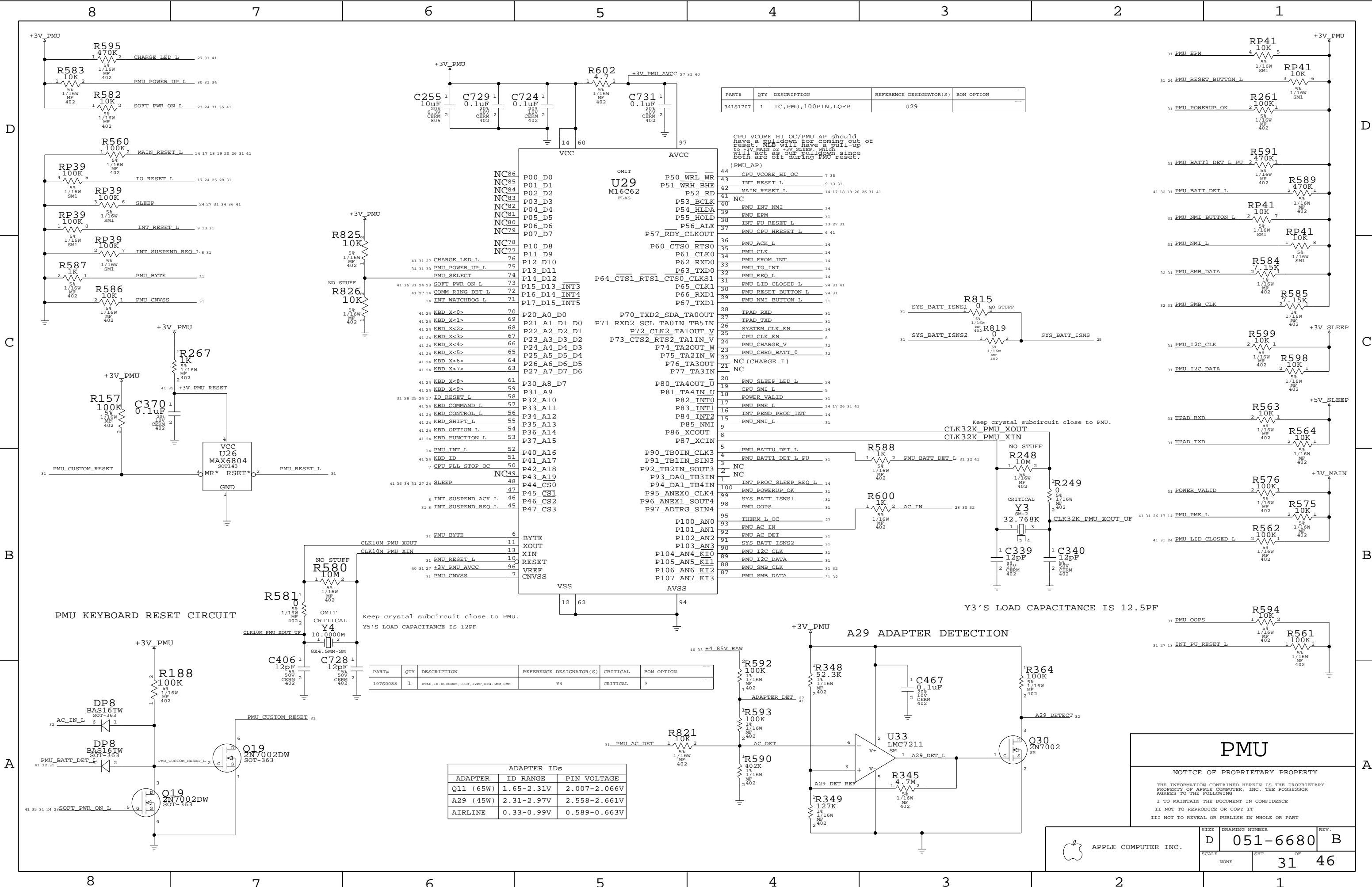
NOTICE OF PROPRIETARY PROPERTY

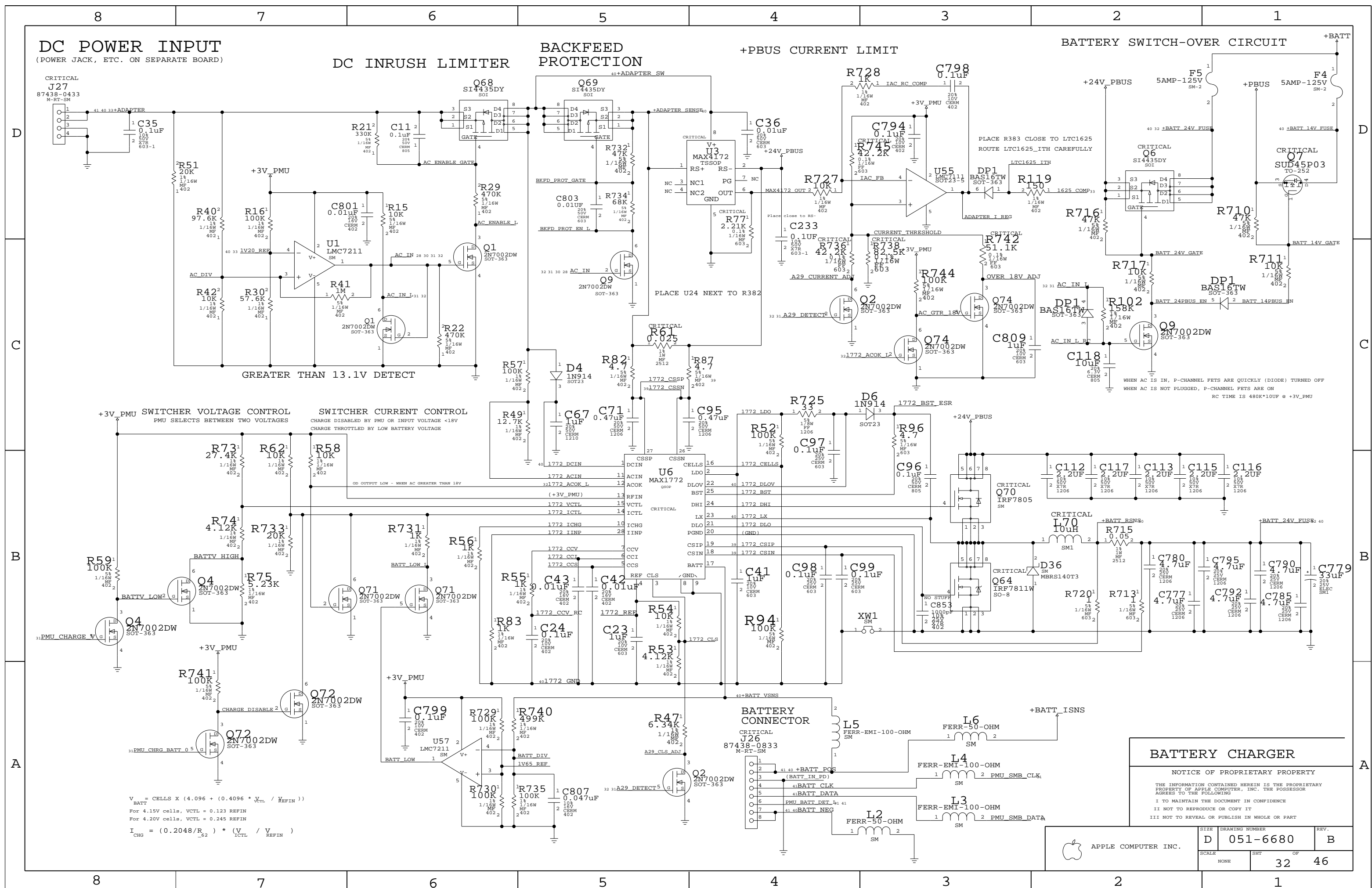
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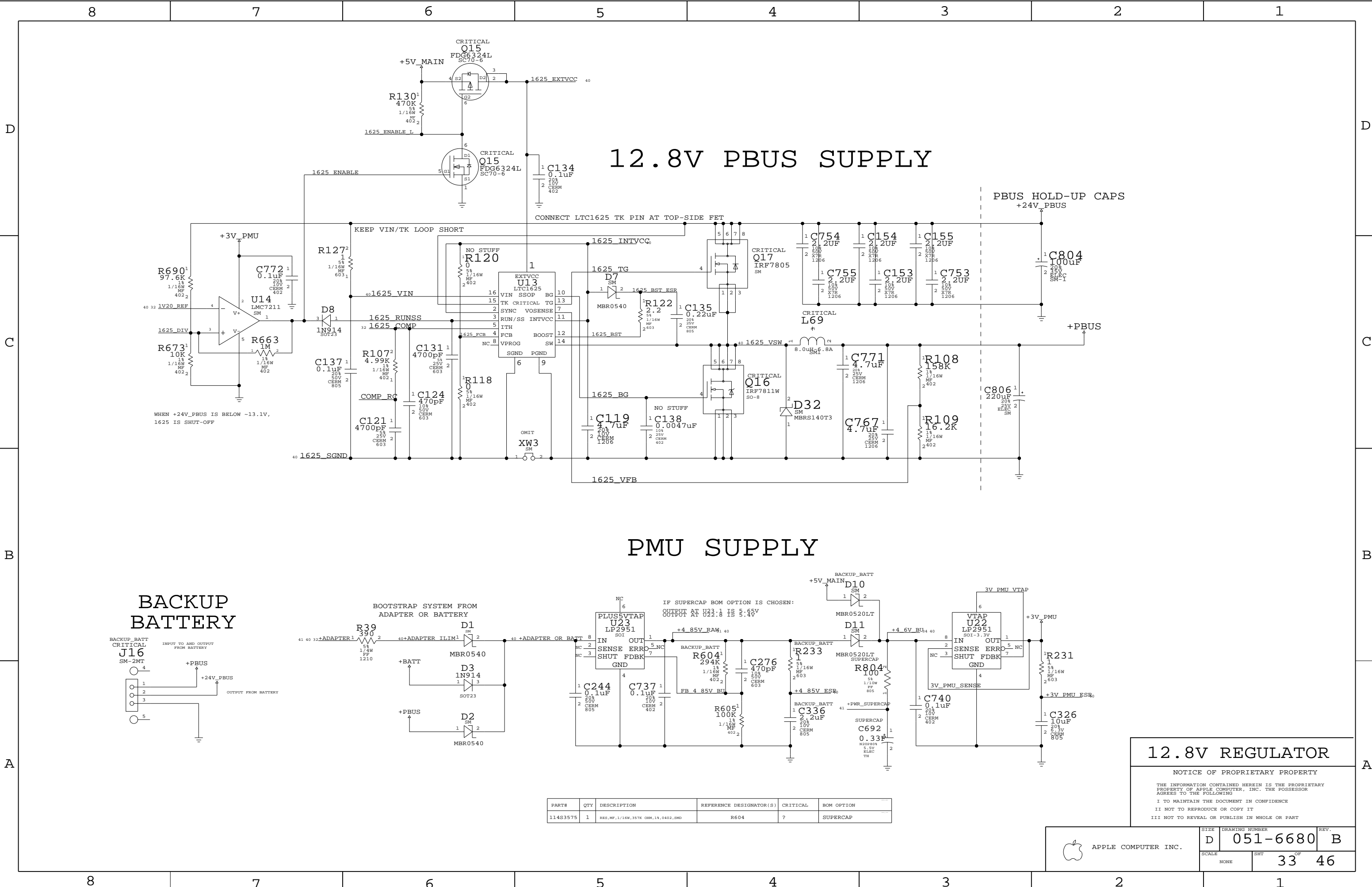
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6680	B
SCALE	SHT	OF
NONE	30	46









# 12.8V PBUS SUPPLY

# PMU SUPPLY

## BACKUP BATTERY

## 12.8V REGULATOR

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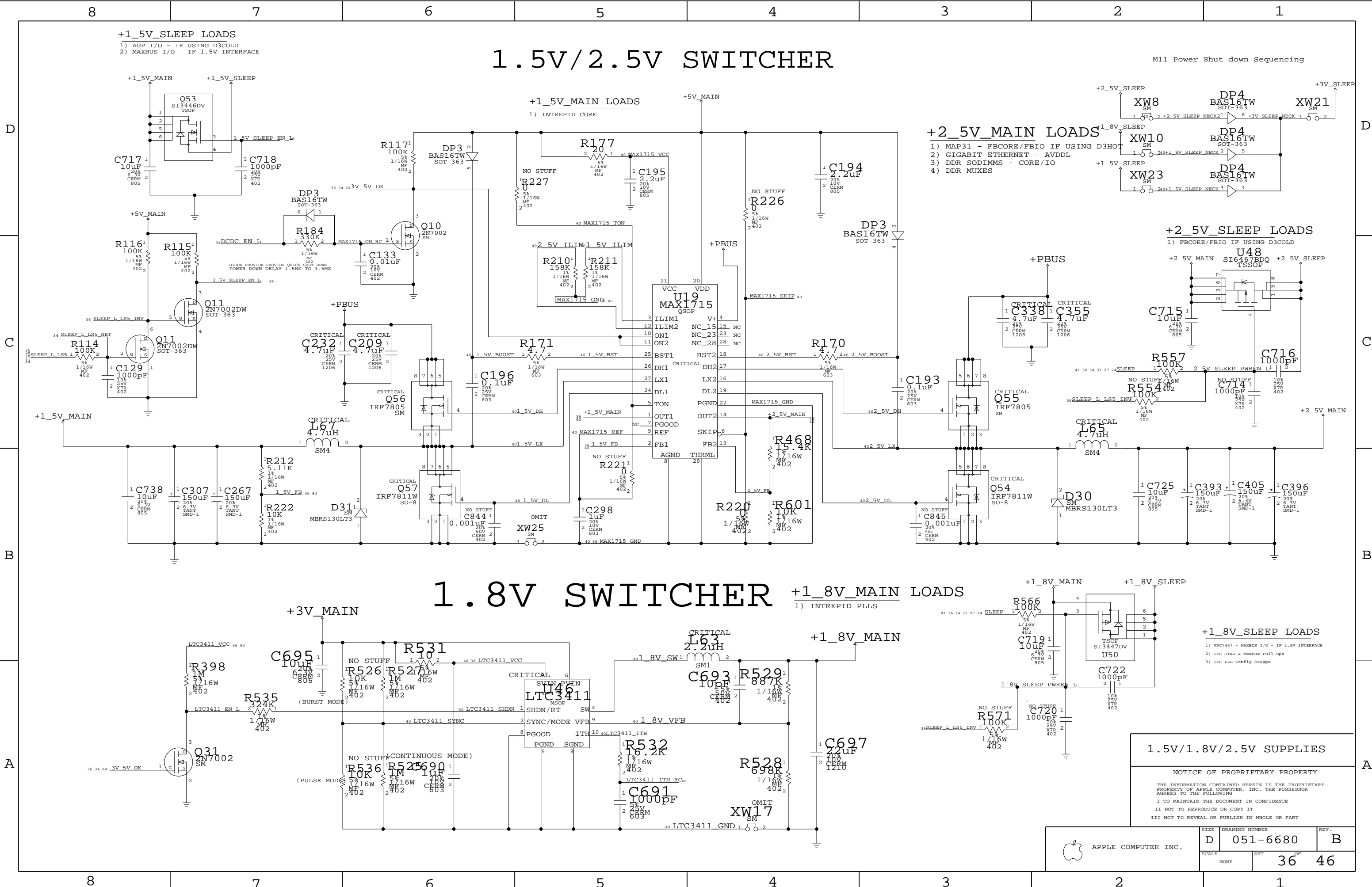
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
114S3575	1	RES,MP,1/16W,357K OHM,1%,0402,SMD	R604	?	SUPERCAP

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6680	B
SCALE	SHT		OF
	NONE		33 46







# 1.5V/2.5V SWITCHER

# 1.8V SWITCHER

1.5V/1.8V/2.5V SUPPLIES

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	D	051-6680	B
SCALE	SHT		REV.
	NONE		36 46







8	7	6	5	4	3	2	1
POWER NET CONSTRAINTS				SIGNAL CONSTRAINTS - PAGE 3			
D	MAIN/SLEEP	GROUP	SIG_NAME	VOLTAGE	MIN_LINE_WIDTH	MIN_NECK_WIDTH	
			+24V PBUS	VOLTAGE=24V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+BATT	VOLTAGE=12.8V	MIN_LINE_WIDTH=10	MIN_NECK_WIDTH=25	41
			+PBUS	VOLTAGE=12.8V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+5V MAIN	VOLTAGE=5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+5V SLEEP	VOLTAGE=5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+3V MAIN	VOLTAGE=3.3V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	24 41
			+3V SLEEP	VOLTAGE=3.3V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=6	41
			+3V PMU	VOLTAGE=3.3V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+2.5V MAIN	VOLTAGE=2.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
C	ADAPTER		+2.5V SLEEP	VOLTAGE=2.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+1.8V MAIN	VOLTAGE=1.8V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=6	41
			+1.8V SLEEP	VOLTAGE=1.8V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+1.5V MAIN	VOLTAGE=1.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+1.5V SLEEP	VOLTAGE=1.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+1.5V LDO	VOLTAGE=1.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+1.5V SLEEP VIN	VOLTAGE=1.5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	41
			+ADAPTER	VOLTAGE=24V	MIN_LINE_WIDTH=50	MIN_NECK_WIDTH=10	32 33 41
			+ADAPTER SW	VOLTAGE=24V	MIN_LINE_WIDTH=50	MIN_NECK_WIDTH=10	32 40
			+ADAPTER SW	VOLTAGE=24V	MIN_LINE_WIDTH=50	MIN_NECK_WIDTH=10	32 40
B	BATTERY CHARGER		+BATT_POS	VOLTAGE=16.8V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32 41
			BATT_NEG	VOLTAGE=0V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32 41
			1772 DCIN	VOLTAGE=24V	MIN_LINE_WIDTH=10		32
			1772 LX	VOLTAGE=12.6V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32
			+BATT_14V FUSE	VOLTAGE=12.6V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32
			+BATT_24V FUSE	VOLTAGE=12.6V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32
			+BATT_RSNS	VOLTAGE=12.6V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	32
			+BATT_VSNS	VOLTAGE=12.6V	MIN_LINE_WIDTH=10	MIN_NECK_WIDTH=10	32
			1772 LDO	VOLTAGE=5.4V	MIN_LINE_WIDTH=10		32
			1772 DLOV	VOLTAGE=5.4V	MIN_LINE_WIDTH=10		32
A	PMU		1772 GND	VOLTAGE=0V	MIN_LINE_WIDTH=10		32
			+ADAPTER_ILIM	VOLTAGE=24V	MIN_LINE_WIDTH=10		33
			+ADAPTER_OR_BATT	VOLTAGE=24V	MIN_LINE_WIDTH=10		33
			+4.85V RAW	VOLTAGE=4.85V	MIN_LINE_WIDTH=10		33 33
			+4.6V BU	VOLTAGE=4.6V	MIN_LINE_WIDTH=10		33 34
			+4.85V ESR	VOLTAGE=4.85V	MIN_LINE_WIDTH=10		33
			+3V PMU ESR	VOLTAGE=3.3V	MIN_LINE_WIDTH=10		33
			+3V PMU AVCC	VOLTAGE=3.3V	MIN_LINE_WIDTH=10		32 33
			+5V_HD_SLEEP	VOLTAGE=5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	26 34
			+HD_LOGIC_SLEEP	VOLTAGE=3.3V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	26
	TRACKPAD		+5V_TP_AD_SLEEP	VOLTAGE=5V	MIN_LINE_WIDTH=10		41
			+3V_HALL_EFFECT	VOLTAGE=3.3V	MIN_LINE_WIDTH=10		24 41
			+14V_INV	VOLTAGE=14V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	23 41
			+5V_INV_UF_SW	VOLTAGE=5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	23
			+5V_INV_SW	VOLTAGE=5V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	23 41
			+5V_DDC_SLEEP	VOLTAGE=5V	MIN_LINE_WIDTH=15	MIN_NECK_WIDTH=10	23 41
			+5V_DDC_SLEEP_UF	VOLTAGE=5V	MIN_LINE_WIDTH=15	MIN_NECK_WIDTH=10	23
			+3V_LCD	VOLTAGE=3.3V	MIN_LINE_WIDTH=12	MIN_NECK_WIDTH=10	23 41
			+3V_LCD_SW	VOLTAGE=3.3V	MIN_LINE_WIDTH=25	MIN_NECK_WIDTH=10	23
			GPU_TV_GND1	VOLTAGE=0V	MIN_LINE_WIDTH=25		23
	AUDIO						





8		7		6		5		4		3		2		1	
D	REVISION HISTORY														D
	EVT2 RELEASE														
	08/13/04 - 1. CHANGE EXT TMDS SWING RESISTORS TO 510 OHM (R869, R876), REMOVE SI_RESET PULL HIGH 2. CHANGE RGB SIGNAL INPEDENCE (R341, R342, R346, R456, R458, R462) 3. ADD 2 RESISTORS (NO STUFF) BETWEEN FAN_PWM AND FAN_PWM_L OF FAN1 AND FAN2 4. CHANGE 2 CAPS (C233, C803) TO IMPROVE FEEDBACK PROTECTION AND PBUS CURRENT LIMIT CIRCUIT 5. MODIFY CPU_VCORE VID AND CPU_VCORE SETTING  08/16/04 - 1. MODIFY CPU_AVDD SETTING 08/20/04 - 1. ADD TRACKPAD POWER +5V_TPAD CONTROL CIRCUIT 09/01/04 - 1. CHANGE ALL FONTS INTO SMALL ONES 09/02/04 - 1. MODIFT CPU_VCORE VID AND CPU_VCORE SEETING AGAIN 2. MODIFY CPU_AVDD SEETING AGAIN 3. CHANGE INT TMDS DAMPING RESISTERS (R760-R767) TO 0 OHM 09/03/04 - 1. ADD MMM CIRCUIT, ARRANGE 2 INTREPID GPIOS FOR MM_FFIRQ_L, MM_SIRQ_L AND PULL UP RESISTORS R801, R802 2. ADD R803 BETWEEN DP6 AND DCDC_IN 3. ADD R804 AND SUPERCAP C692 ON +4_6V_BU 4. CHANGE TRACKPAD CONNECTOR J10 AND PIN OUT  09/06/04 - 1. ADD EMI SOLUTION L12 09/07/04 - 1. CHANGE TRACKPAD CONNECTOR PIN OUT 09/08/04 - 1. ADD BATTERY CURRENT SENSOR CIRCUIT 09/09/04 - 1. ADD EMI SOLUTION R816; ADD MMM RESET CIRCUIT 09/10/04 - 1. MODIFY FIREWIRE PORT0 POWER CIRCUIT 2. ADD NET FROM BATTERY CURRENT SENSOR CIRCUIT TO PMU 09/13/04 - 1. ADD CURRENT LIMITER R821 BETWEEN PMU(U29) AND U33 2. ADD PULL UP AND PULL DOWN RESISTORS FOR MMM SENSOR														
C	DVT RELEASE														C
	09/27/04 - 1. ADD ST MMM SENSOR CIRCUIT 10/14/04 - 2. ADD FIREWIRE POWER PROTECT CIRCUIT 10/15/04 - 3. CHANGE EXT_TMDS TERMINAL RESISTERS AND V SWINING RESISTOR 10/22/04 - 4. CHANGE FAN CONTROLLER FROM ADT7460 TO ADT7467 11/02/04 - 5. CHANGE BBANG IC TO ATTINY2313														
	PVT RELEASE														
B	12/17/04 - 1. REMOVE ALL OPEN JUMPER 12/17/04 - 2. SCHEMATIC RELEASE FOR PRODUCTION														B
A															A
8		7		6		5		4		3		2		1	

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SIZE

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SCALE

NONE

DRAWING NUMBER

051-6680

SHT

42

OF

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REV.

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SIZE	D	DRAWING NUMBER	051-6680	REV.	B
SCALE	NONE	SHT	42	OF	46

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