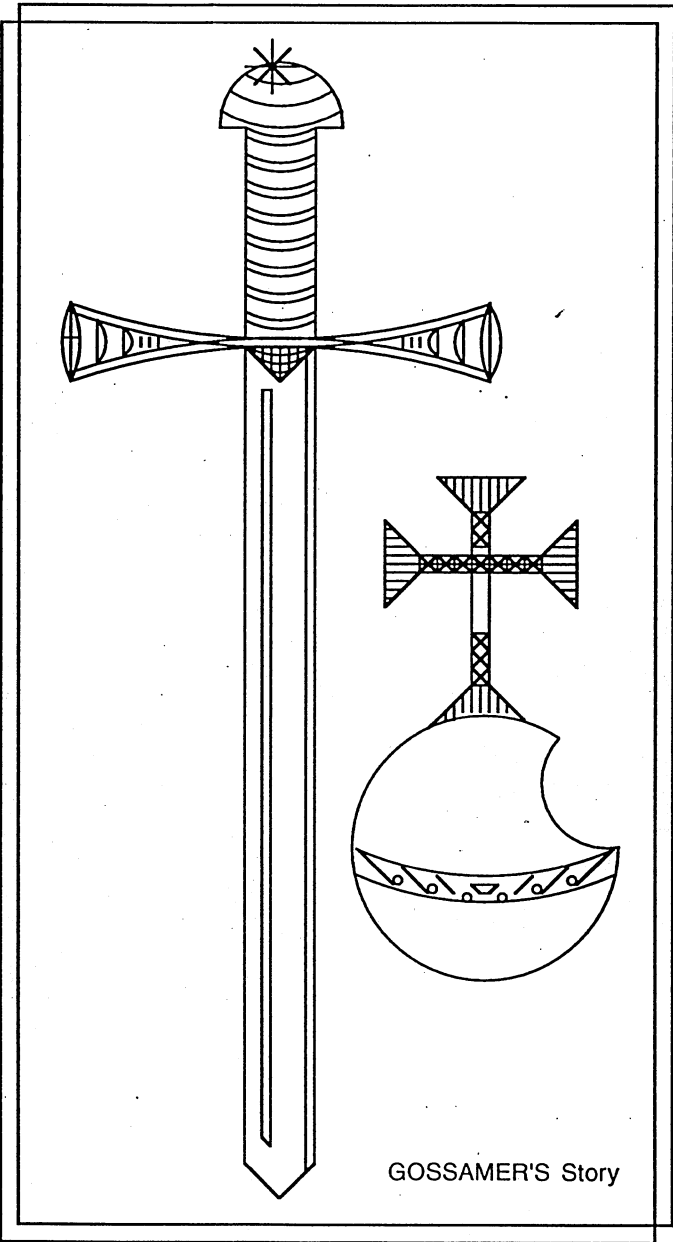


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Memory	
4.	Memory Controller / Host Bridge (GRACKLE)
5.	L2 Cache and more pullup/down
6.	Memory RAS, CAS, & address lines
7.	Memory Data Latch - 74xxx16601 & ROM DIMM Connector
8.	PCI and System Clocks (IM1608) - I/O Clocks (Athens)
9.	DRAM DIMMs
PCI	
10.	PERCH Connector
11.	PCI Slot Connectors
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12.	I/O Controller (Heathrow)
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19.	ATI Graphics Controller, 264GT-B
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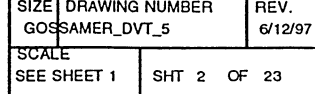
Cheng Hwee Chee, 4-2256
Meng Chi Lee, 4-2373

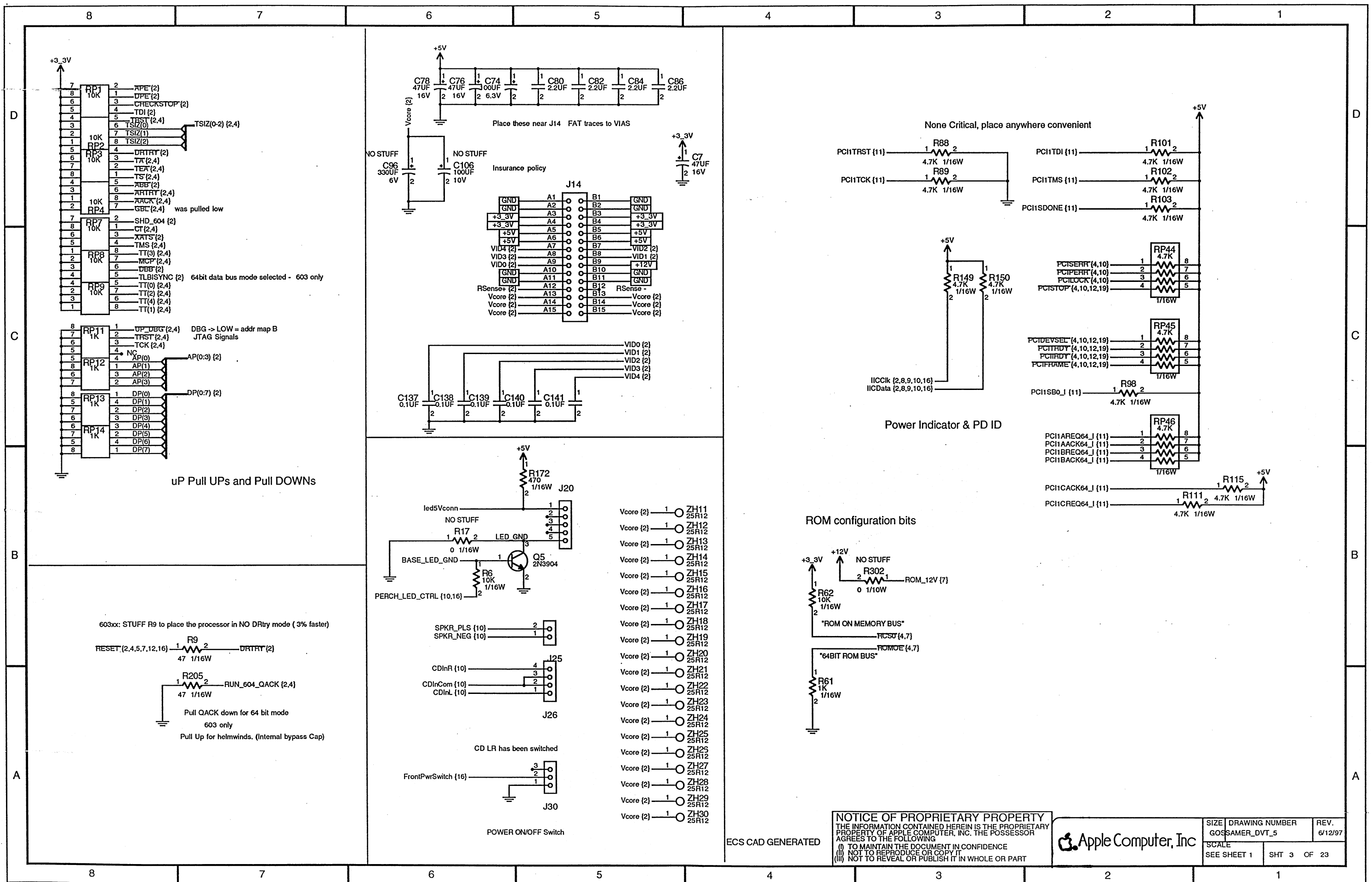
POWER MACINTOSH GOSSAMER - DVT
MAIN LOGIC BOARD SCHEMATIC
REV 5 - last changed on 20 MAY 97

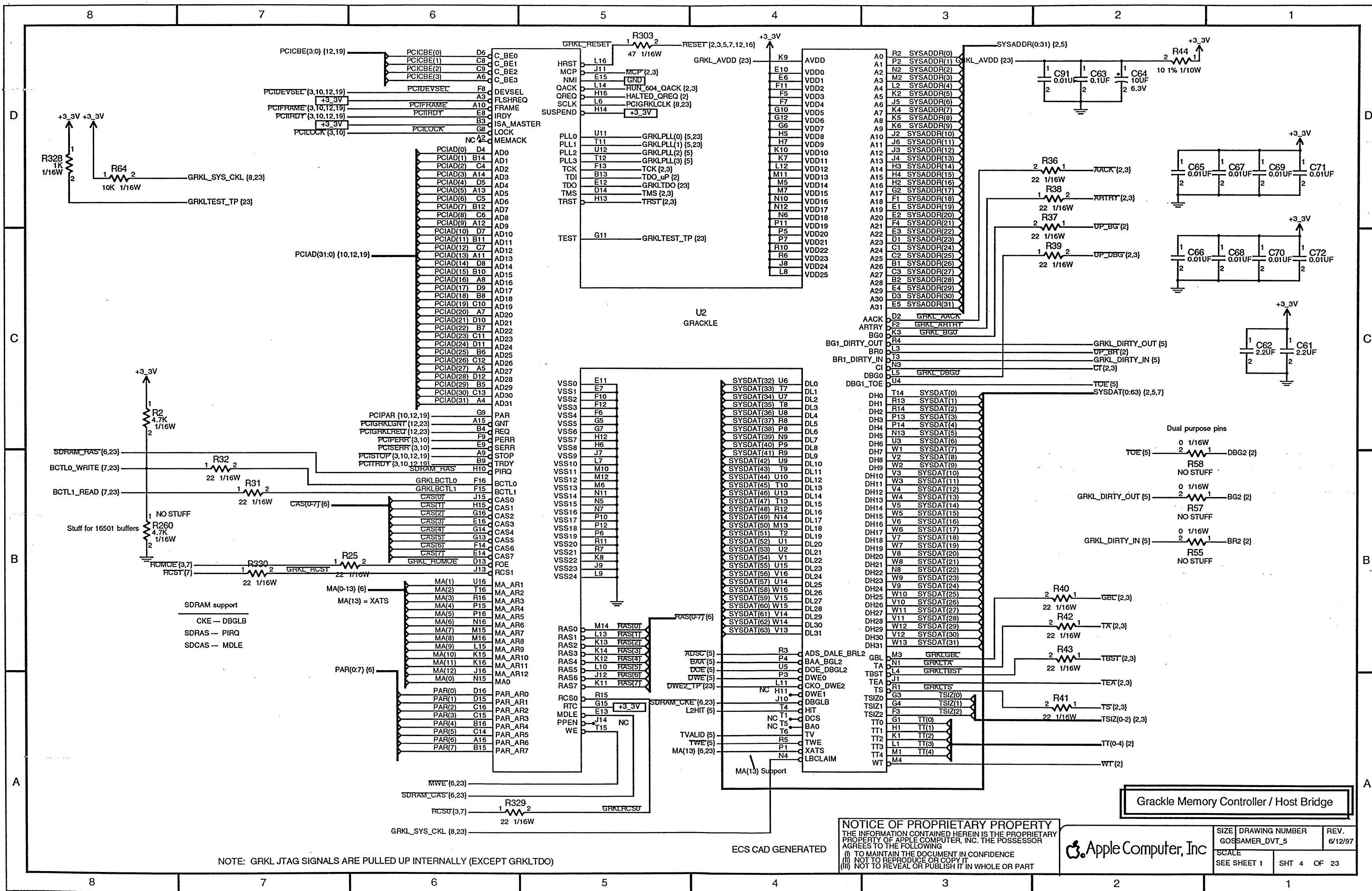


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ANGLES ₂	_____	RELEASE	SCALE	(i) TO MAINTAIN THE DOCUMENT IN CONFIDENCE	
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				REV. 6/12/97	
				SHT 1 OF 23	

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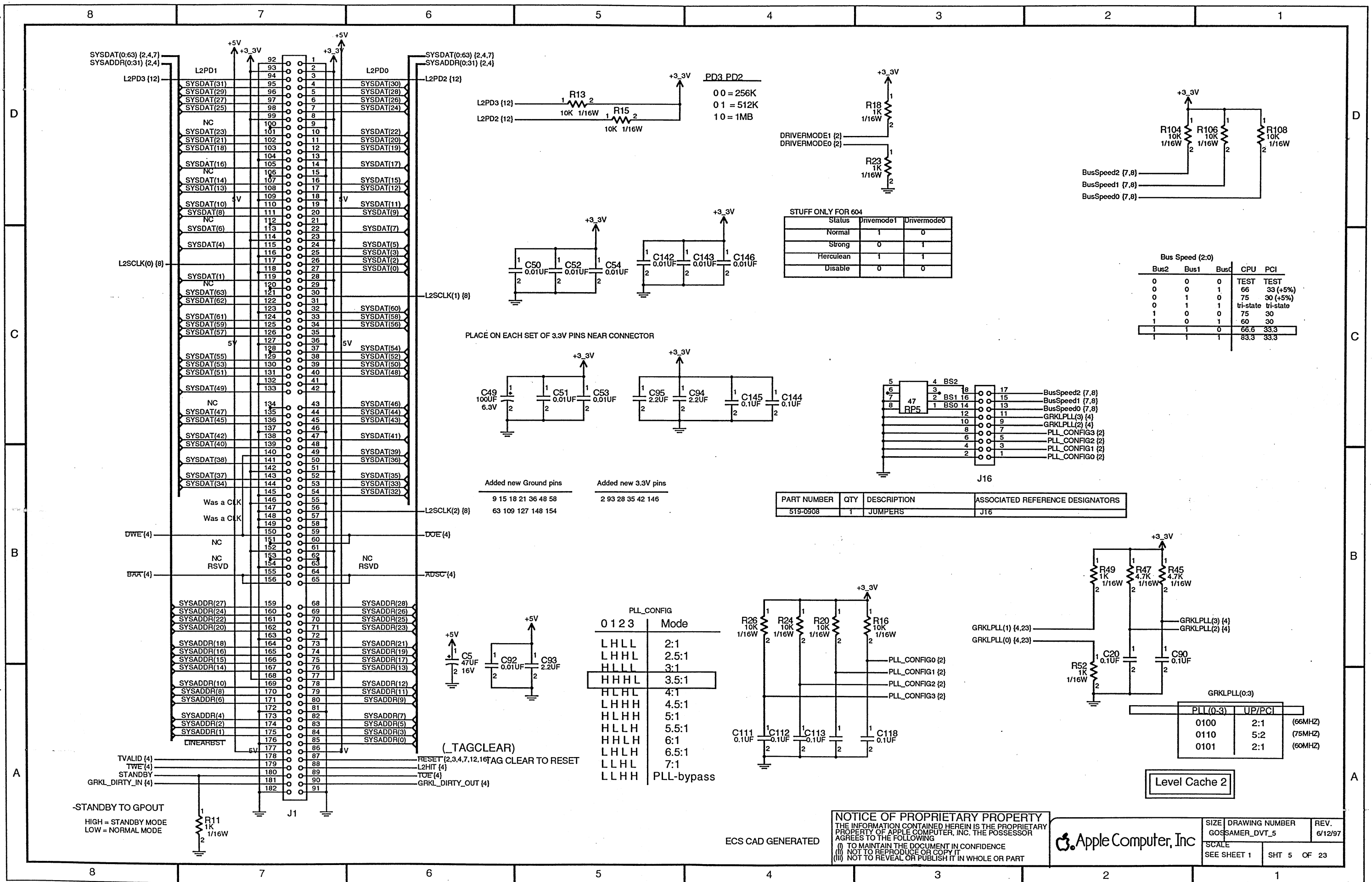
NOTE: GRKL JTAG SIGNALS ARE PULLED UP INTERNALLY (EXCEPT GRKL_TDO)

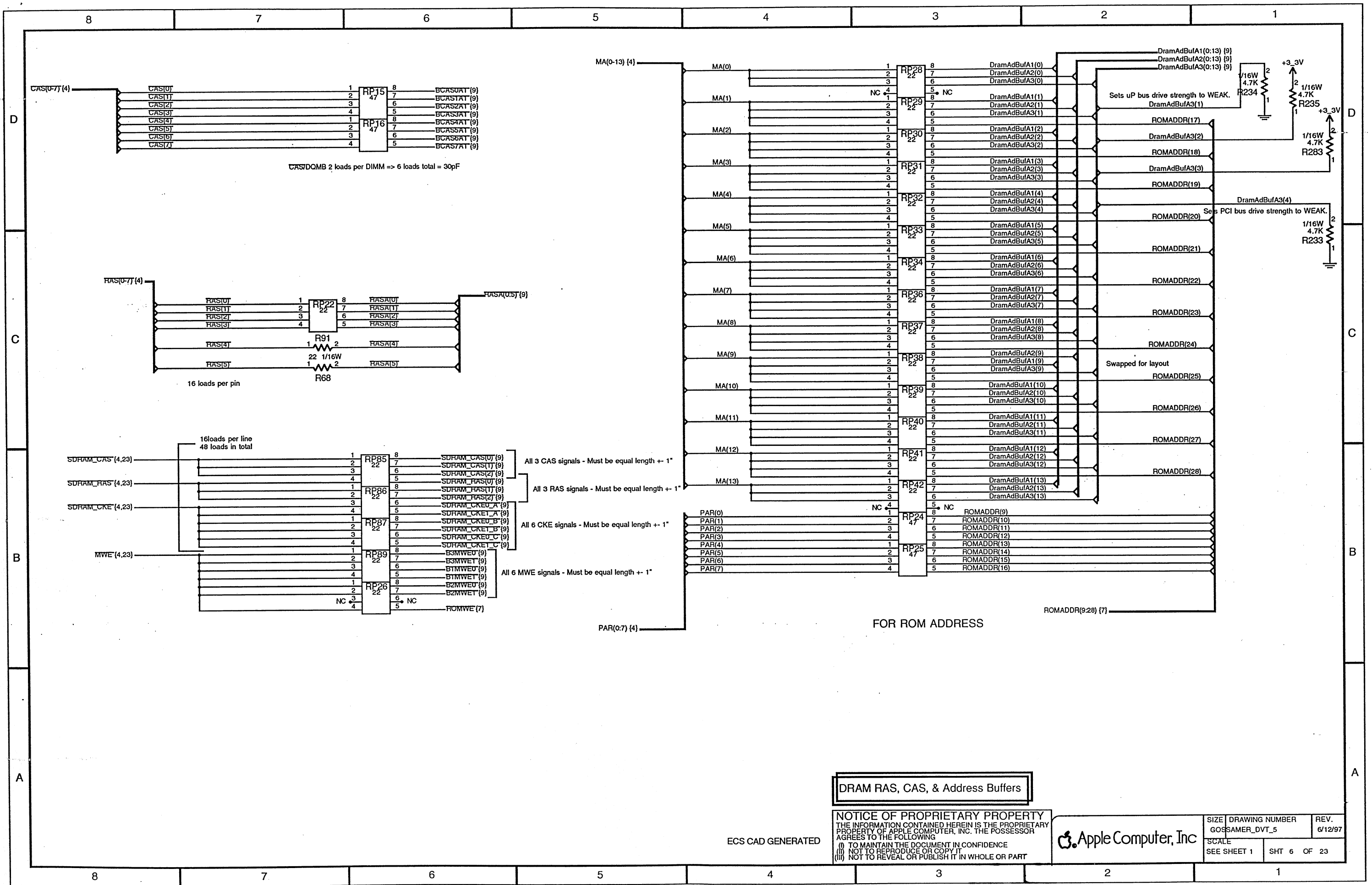
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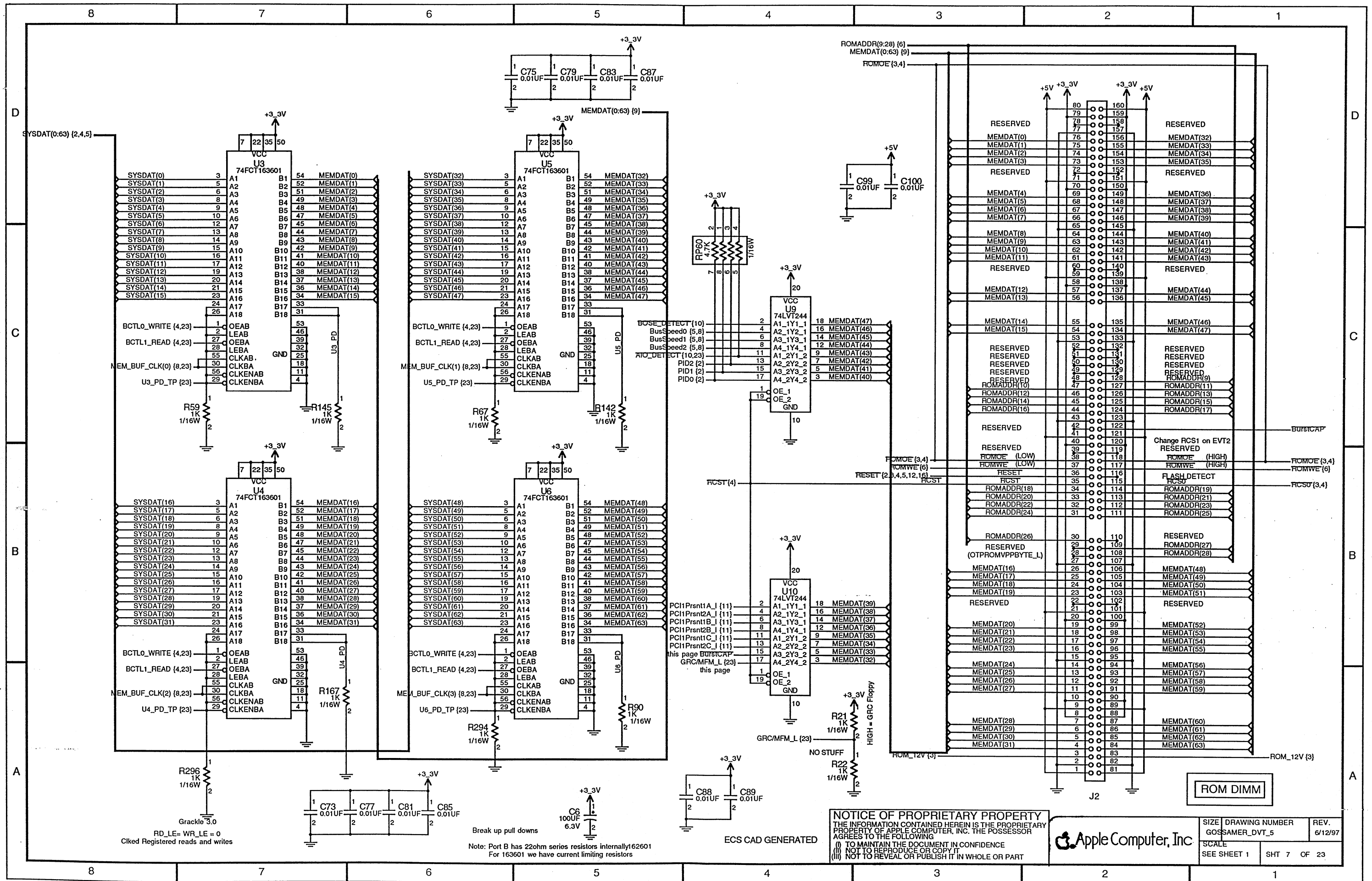
DRAM RAS, CAS, & Address Buffers

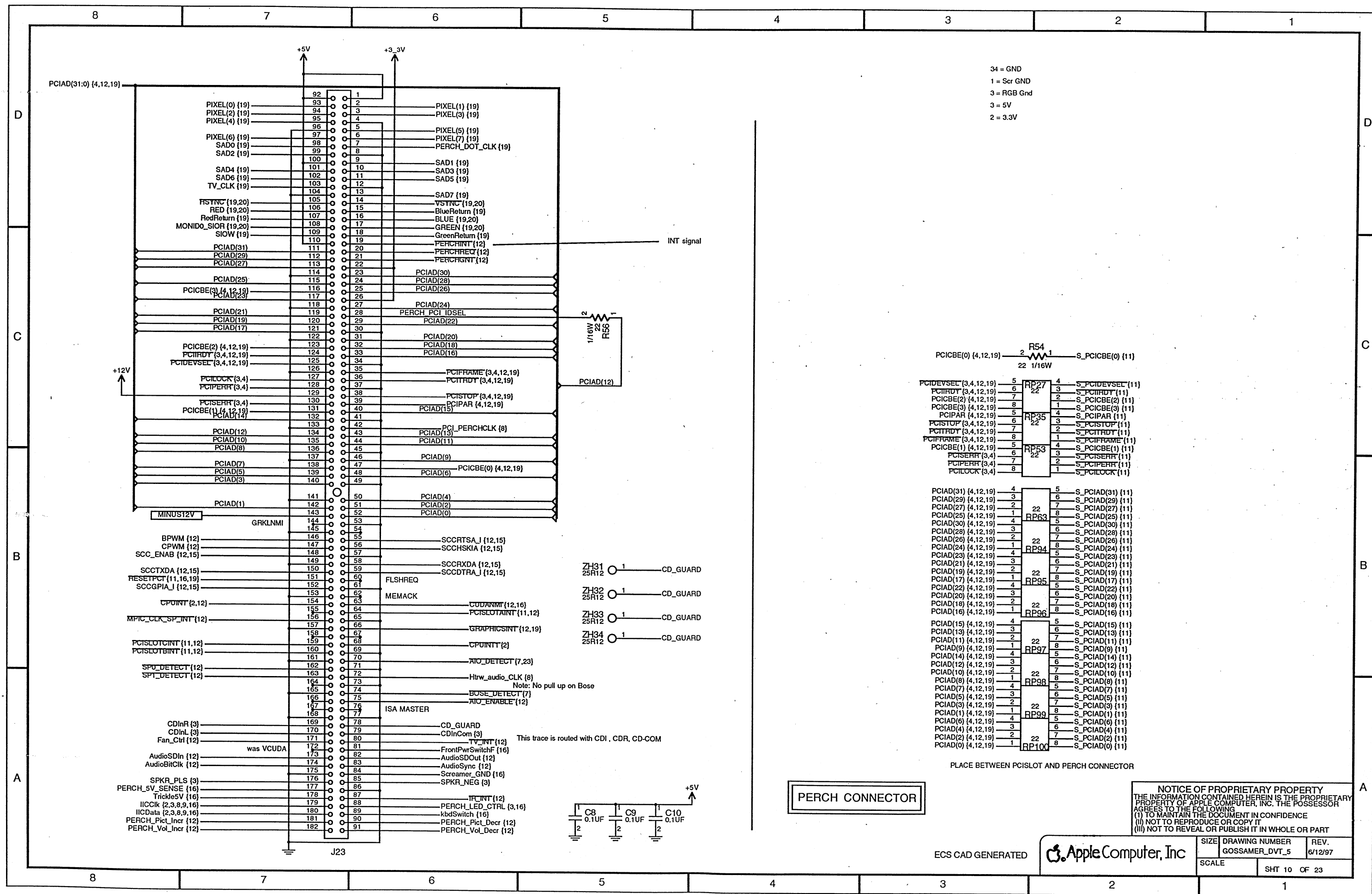
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34 = GND
1 = Scr GND
3 = RGB Gnd
3 = 5V
2 = 3.3V

PCICBE(0) (4,12,19)	2	R54	1	S_PCICBE(0) (11)
PCIDEVSEL (3,4,12,19)	5	RP27	4	S_PCIDEVSEL (11)
PCILDRDY (3,4,12,19)	6	22	3	S_PCILDRDY (11)
PCICBE(2) (4,12,19)	7	22	2	S_PCICBE(2) (11)
PCICBE(3) (4,12,19)	8	22	1	S_PCICBE(3) (11)
PCIPAR (4,12,19)	9	RP35	4	S_PCIPAR (11)
PCISTOP (3,4,12,19)	6	22	3	S_PCISTOP (11)
PCITRDY (3,4,12,19)	7	22	2	S_PCITRDY (11)
PCIFRAME (3,4,12,19)	8	22	1	S_PCIFRAME (11)
PCICBE(1) (4,12,19)	5	RP53	4	S_PCICBE(1) (11)
PCISERR (3,4)	6	22	3	S_PCISERR (11)
PCIPERR (3,4)	7	22	2	S_PCIPERR (11)
PCILCK (3,4)	8	22	1	S_PCILCK (11)
PCIAD(31) (4,12,19)	4	22	5	S_PCIAD(31) (11)
PCIAD(29) (4,12,19)	3	22	6	S_PCIAD(29) (11)
PCIAD(27) (4,12,19)	2	RP63	7	S_PCIAD(27) (11)
PCIAD(25) (4,12,19)	1	22	8	S_PCIAD(25) (11)
PCIAD(30) (4,12,19)	4	22	5	S_PCIAD(30) (11)
PCIAD(28) (4,12,19)	3	22	6	S_PCIAD(28) (11)
PCIAD(26) (4,12,19)	2	22	7	S_PCIAD(26) (11)
PCIAD(24) (4,12,19)	1	RP94	8	S_PCIAD(24) (11)
PCIAD(23) (4,12,19)	4	22	5	S_PCIAD(23) (11)
PCIAD(21) (4,12,19)	3	22	6	S_PCIAD(21) (11)
PCIAD(19) (4,12,19)	2	22	7	S_PCIAD(19) (11)
PCIAD(17) (4,12,19)	1	RP95	8	S_PCIAD(17) (11)
PCIAD(22) (4,12,19)	4	22	5	S_PCIAD(22) (11)
PCIAD(20) (4,12,19)	3	22	6	S_PCIAD(20) (11)
PCIAD(18) (4,12,19)	2	22	7	S_PCIAD(18) (11)
PCIAD(16) (4,12,19)	1	RP96	8	S_PCIAD(16) (11)
PCIAD(15) (4,12,19)	4	22	5	S_PCIAD(15) (11)
PCIAD(13) (4,12,19)	3	22	6	S_PCIAD(13) (11)
PCIAD(11) (4,12,19)	2	22	7	S_PCIAD(11) (11)
PCIAD(9) (4,12,19)	1	RP97	8	S_PCIAD(9) (11)
PCIAD(14) (4,12,19)	4	22	5	S_PCIAD(14) (11)
PCIAD(12) (4,12,19)	3	22	6	S_PCIAD(12) (11)
PCIAD(10) (4,12,19)	2	22	7	S_PCIAD(10) (11)
PCIAD(8) (4,12,19)	1	RP98	8	S_PCIAD(8) (11)
PCIAD(7) (4,12,19)	4	22	5	S_PCIAD(7) (11)
PCIAD(5) (4,12,19)	3	22	6	S_PCIAD(5) (11)
PCIAD(3) (4,12,19)	2	22	7	S_PCIAD(3) (11)
PCIAD(1) (4,12,19)	1	RP99	8	S_PCIAD(1) (11)
PCIAD(6) (4,12,19)	4	22	5	S_PCIAD(6) (11)
PCIAD(4) (4,12,19)	3	22	6	S_PCIAD(4) (11)
PCIAD(2) (4,12,19)	2	22	7	S_PCIAD(2) (11)
PCIAD(0) (4,12,19)	1	RP100	8	S_PCIAD(0) (11)

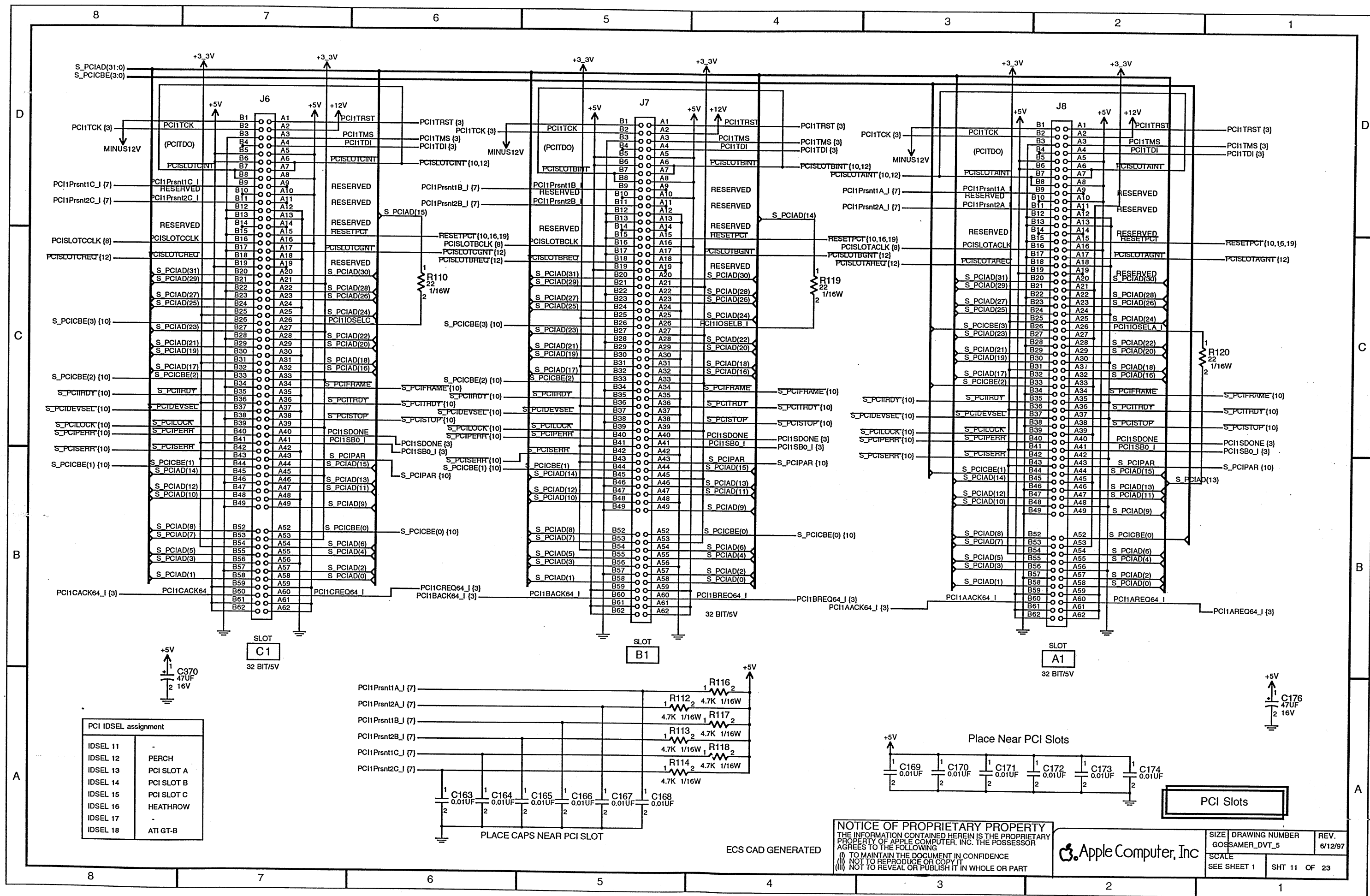
PLACE BETWEEN PCISLOT AND PERCH CONNECTOR

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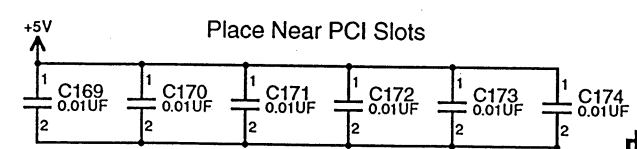
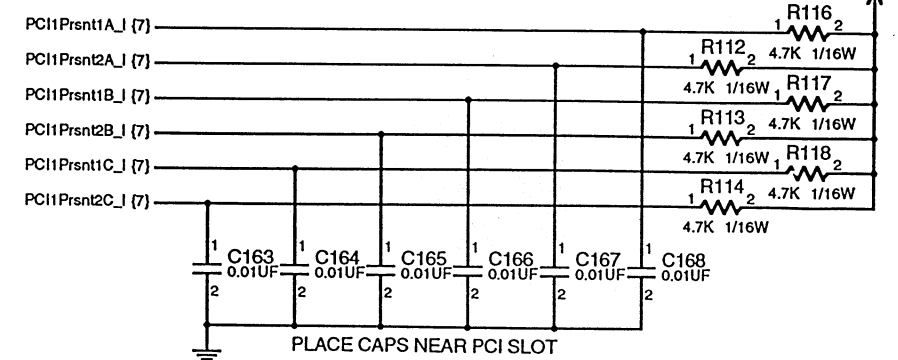
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PCI IDSEL assignment	
IDSEL 11	-
IDSEL 12	PERCH
IDSEL 13	PCI SLOT A
IDSEL 14	PCI SLOT B
IDSEL 15	PCI SLOT C
IDSEL 16	HEATHROW
IDSEL 17	-
IDSEL 18	ATI GT-B

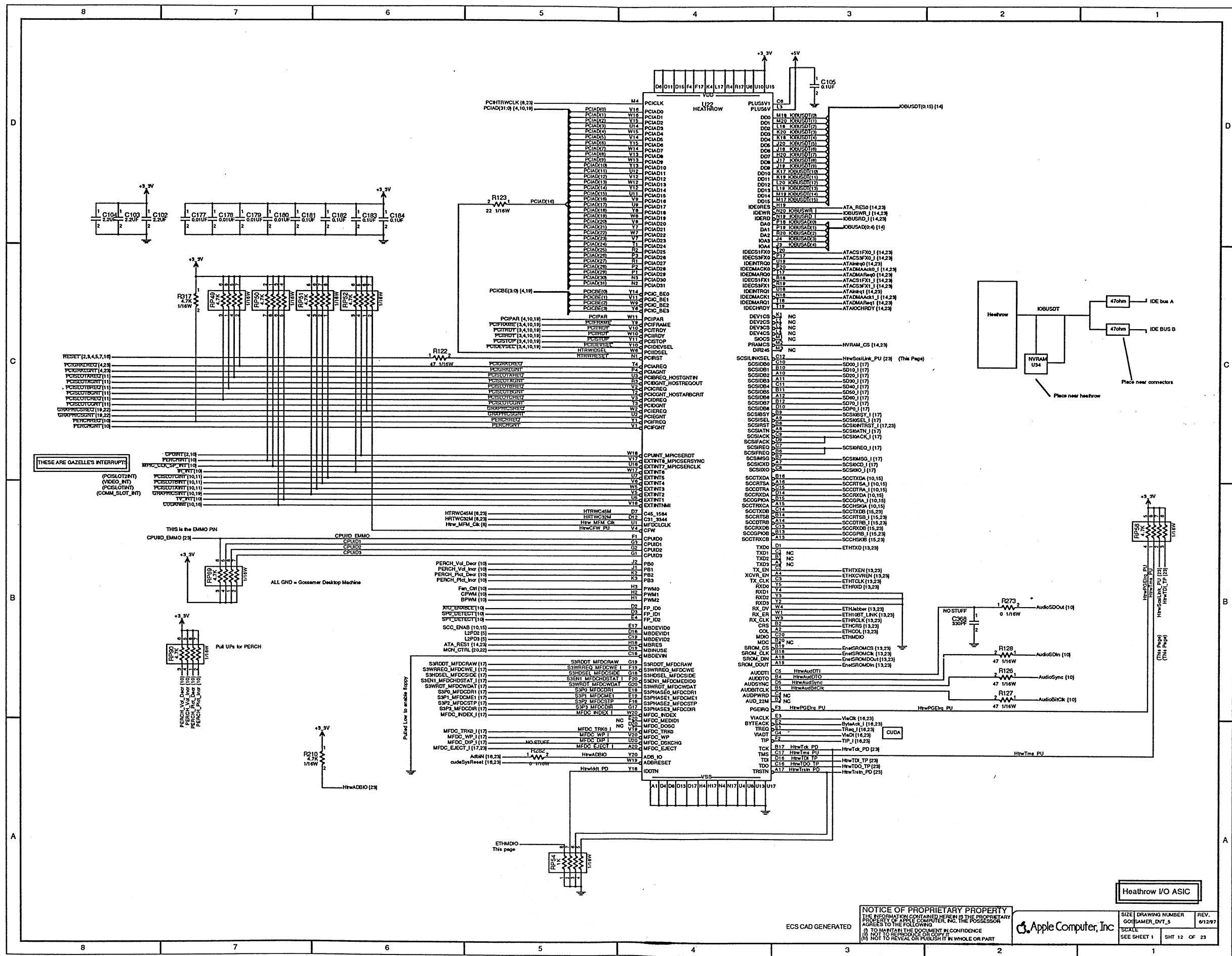


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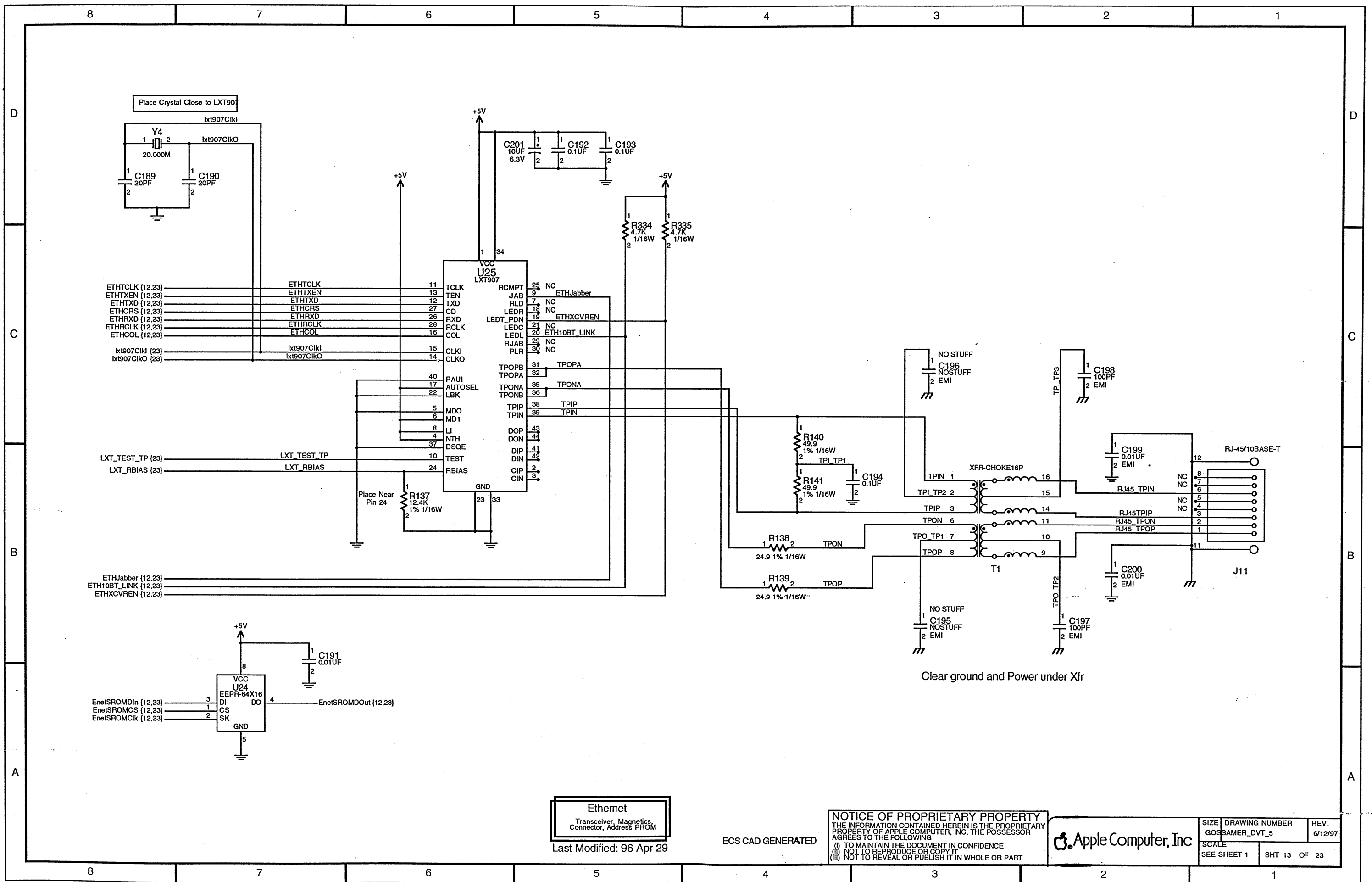
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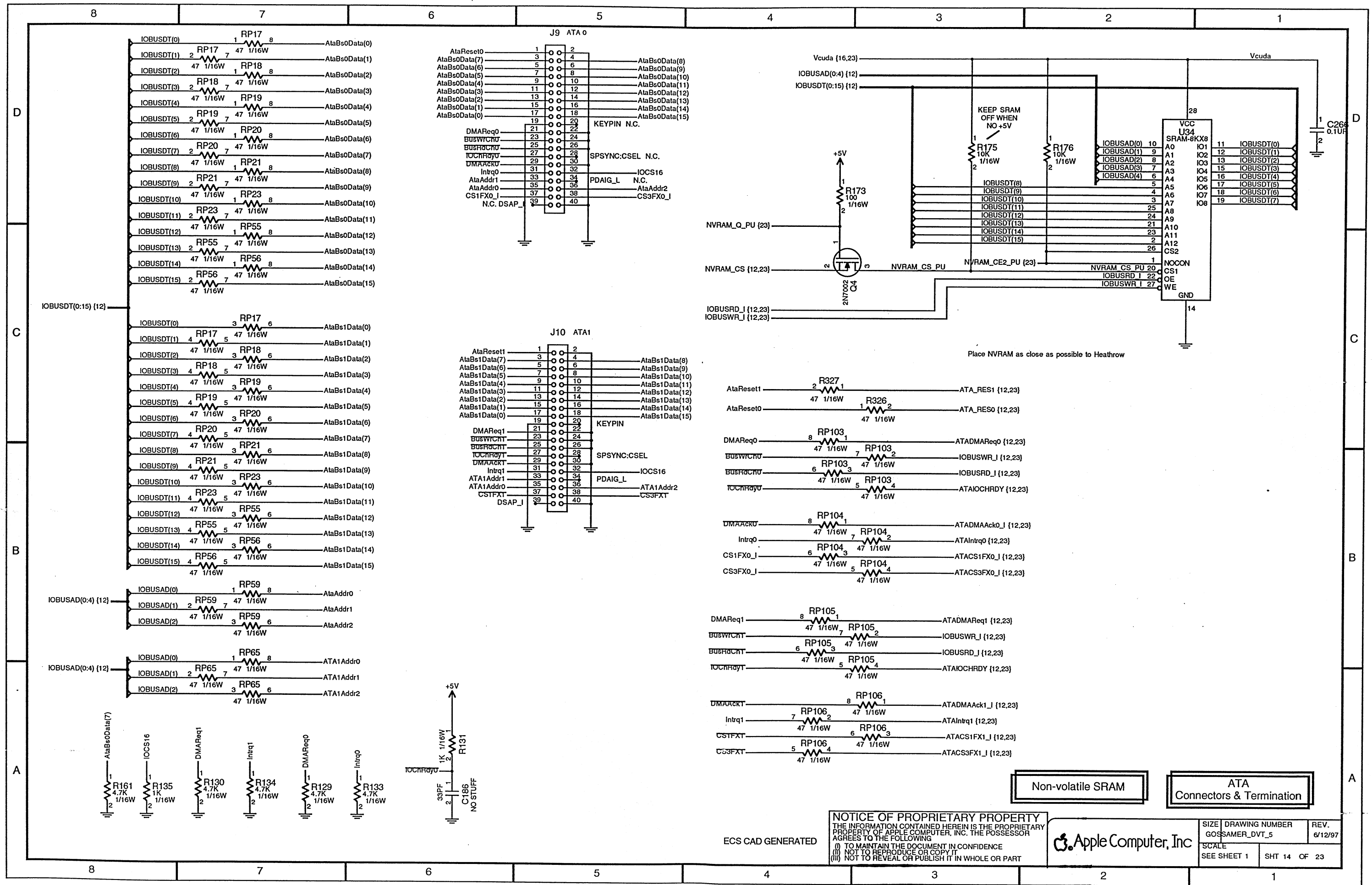
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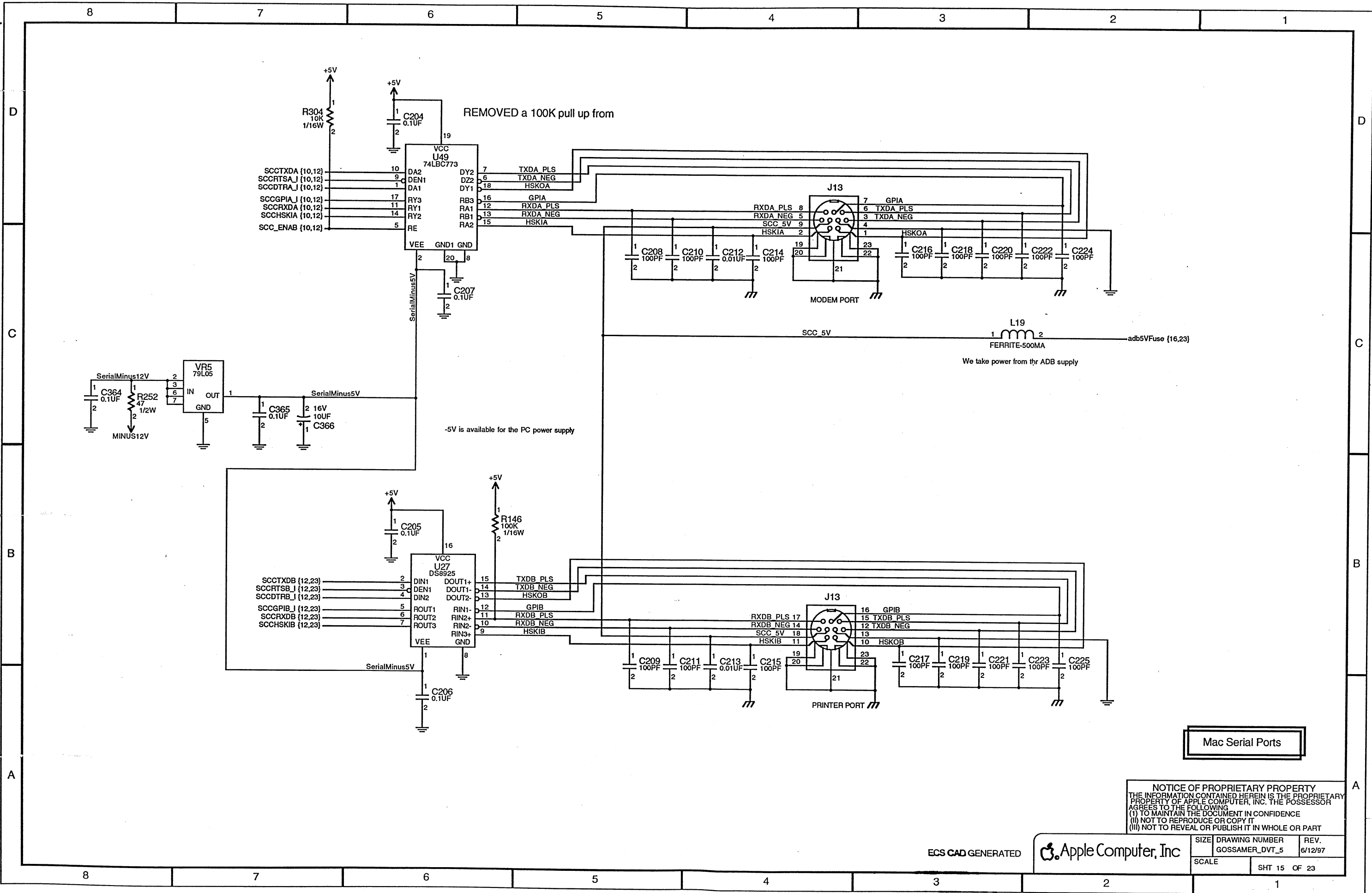


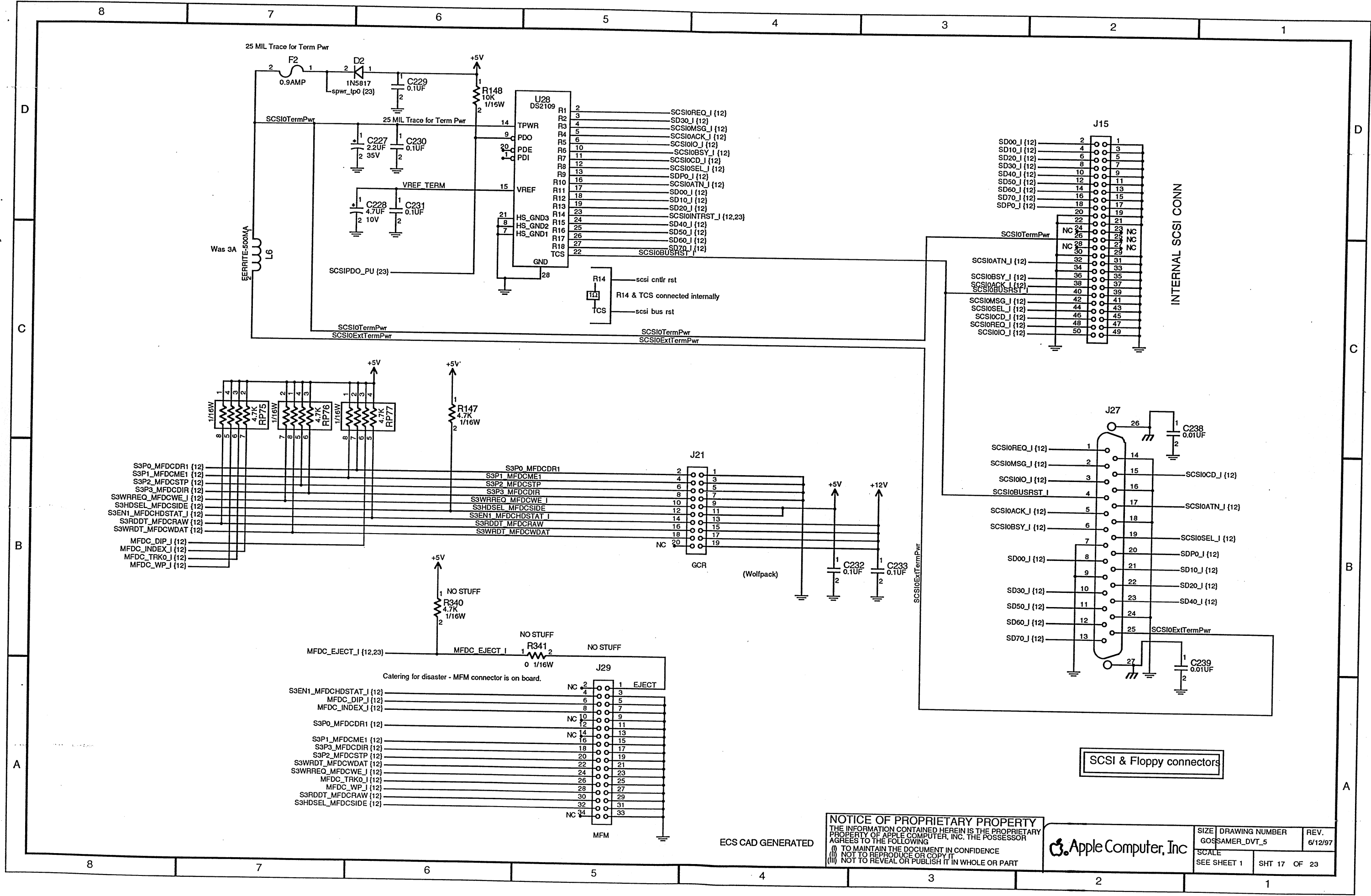
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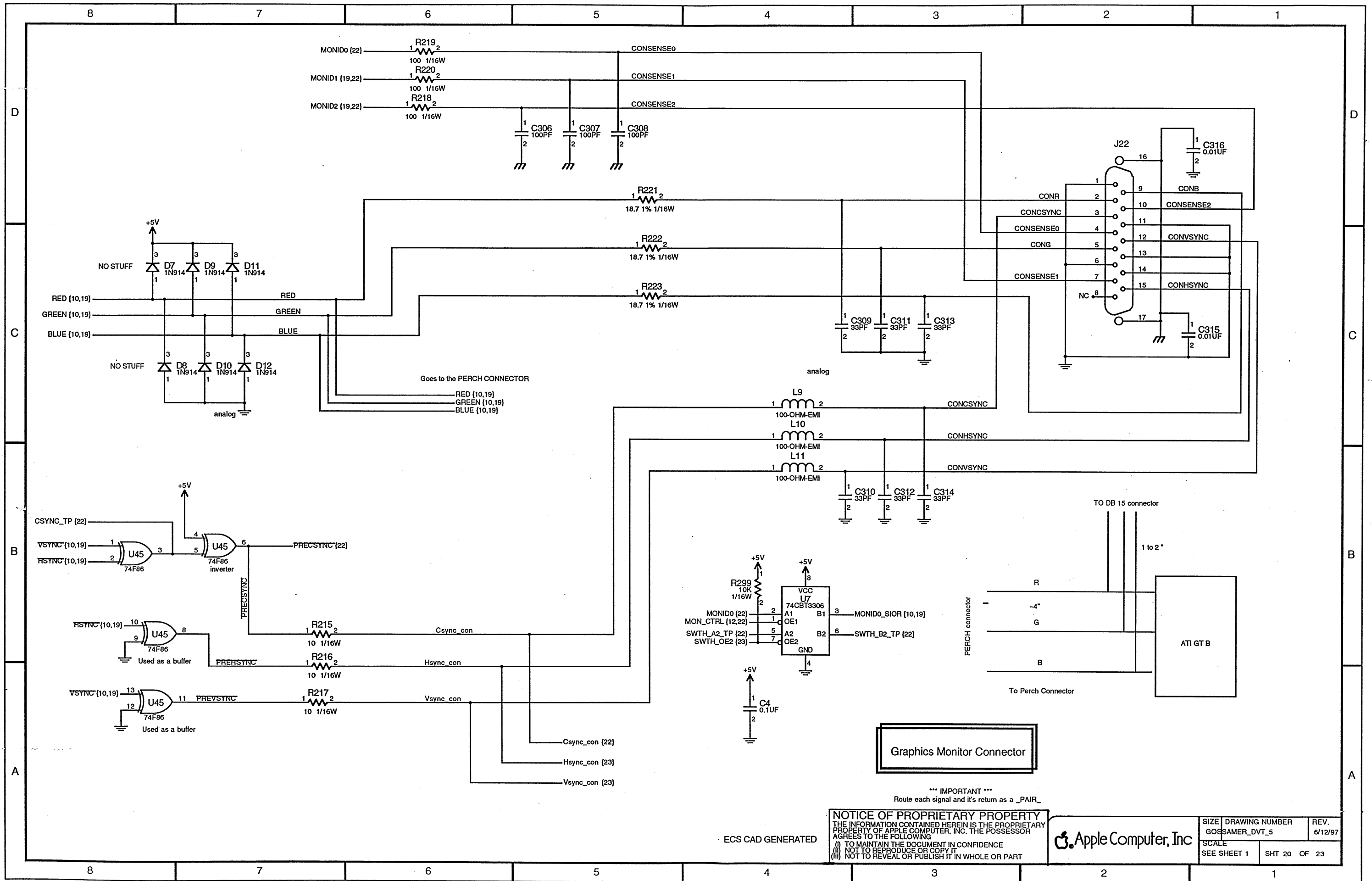




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REFERENCE DESIGNATIONS		LAST USED	NOT USED
LAST USED	NOT USED	TP626	TP39-40
BT1			TP42-45
C370	C74		TP85
	C76		TP87
	C78		TP89
	C80		TP93-94
	C82		TP98
	C84		TP101
	C86		TP106-107
	C88-98		TP142
	C101-107		TP251-254
	C109		TP256
	C111-113		TP271-279
	C118-120		TP283
	C125-127		TP286-288
	C132-162		TP300
	C175		TP307-317
	C185		TP321-340
	C187		TP351-360
	C202-203		TP362
	C226		TP364-369
	C232-237		TP389
	C265		TP404
	C293		TP408
	C295		TP419
	C297		TP434
	C299-300		TP436
	C302-303		TP439
	C305		TP459-465
	C317-327		TP470-472
	C329		TP477-482
	C333		TP500-507
	C335		TP509-514
	C337-339		TP517
	C342		TP520-545
	C346-350		TP553-557
	C352-354		TP559-561
	C362-363		TP563-565
			TP576
D12	D1		TP580
F4	F1		TP582-592
J30	J21		TP598
	J29		TP600-608
L19	L3-5	U47	TP614-615
	L7		U9-21
	L12-13		U23
			U30
			U33
			U38-44
			U46
Q4			
R327	R17	VR5	VR2-4
	R21		
	R25	XS4	
	R27		
	R46	Y6	Y3
	R48		Y5
	R69-71		
	R90		
	R105		
	R107		
	R109		
	R128		
	R142		
	R145		
	R167		
	R211-214		
	R224-230		
	R233-235		
	R247		
	R250-251		
	R253		
	R256-265		
	R267		
	R269-270		
	R272		
	R274		
	R277-281		
	R283		
	R286-287		
	R292-293		
	R298		
	R316-319		
	R323		
	R325		
RP106	RP43		
	RP60-62		
	RP64-68		
	RP70-72		
	RP84		
	RP88		
	RP90-93		
S2			
T1			
	TP20-27		

PART NUMBER	QTY	DESCRIPTION	ASSOCIATED REFERENCE DESIGNATORS
333-0136	1	3.3V EDO DRAM 16 MB	J5
333-0240	1	3.3V SDRAM 8 MB	J5
333-0241	1	3.3V SDRAM 16 MB	J5
333-0242	1	3.3V SDRAM 16 MB	J5
333-0244	1	3.3V SDRAM 32 MB	J5
333-0245	1	3.3V SDRAM 32 MB	J5
333-0246	1	3.3V SDRAM 64 MB	J5
333-0247	1	3.3V SDRAM 64 MB	J5

NET NAME	NET WIDTH	VOLTAGE LEVEL	FREQUENCY	NET SHIELD
	(MILS)	OPTIONAL	MHz	

PLANES				
+5V	25	5		
GND	25	0		
CHASSIS	25	0		
+3.3V	25	3.3		

OTHER SUPPLY VOLTAGES				
+12V	25	12		
Trickle5V	25	5		
MINUS12V	25	12		
conn12V	25	12		
Vcore	25	2.5		

SERIAL PORT				
SerialMinus5V	25	-5		
SerialMinus12V	25	-12		
SCC_5V	25	5		

Processor				
PROC_AVDD	25	2.5		
GRKL_AVDD	25	3.3		
CLK_3_3_A	25	3.3		
SYS_CLK_VDD	25	3.3		
ATHEN_AVDD	15	5		
A5v	15	5		
ROM_12V	25	12		
ATHEN_VDD	15	5		

SCSI				
SCSI0ExtTermPwr	25	5		
SCSI0TermPwr	25	5		
spwr_tp0	25	5		

AUDIO				
Screamer_GND	25	0		

CUDA - pg 16				
Vcuda	25	5		
VBattF	25	5		
VBatt	25	5		

ADB - pg 16				
adb5VFuse	25	5		
adb5V	25	5		

GRAPHICS - pg 18				
DACVDD	25	5		
DACVDD1	25	5		
ATI_COREPWR	25	5		
PVDD_ATI	25	5		
RSET	25	5		
PVSS_ATI	25	0		
VR_GND	25	0		

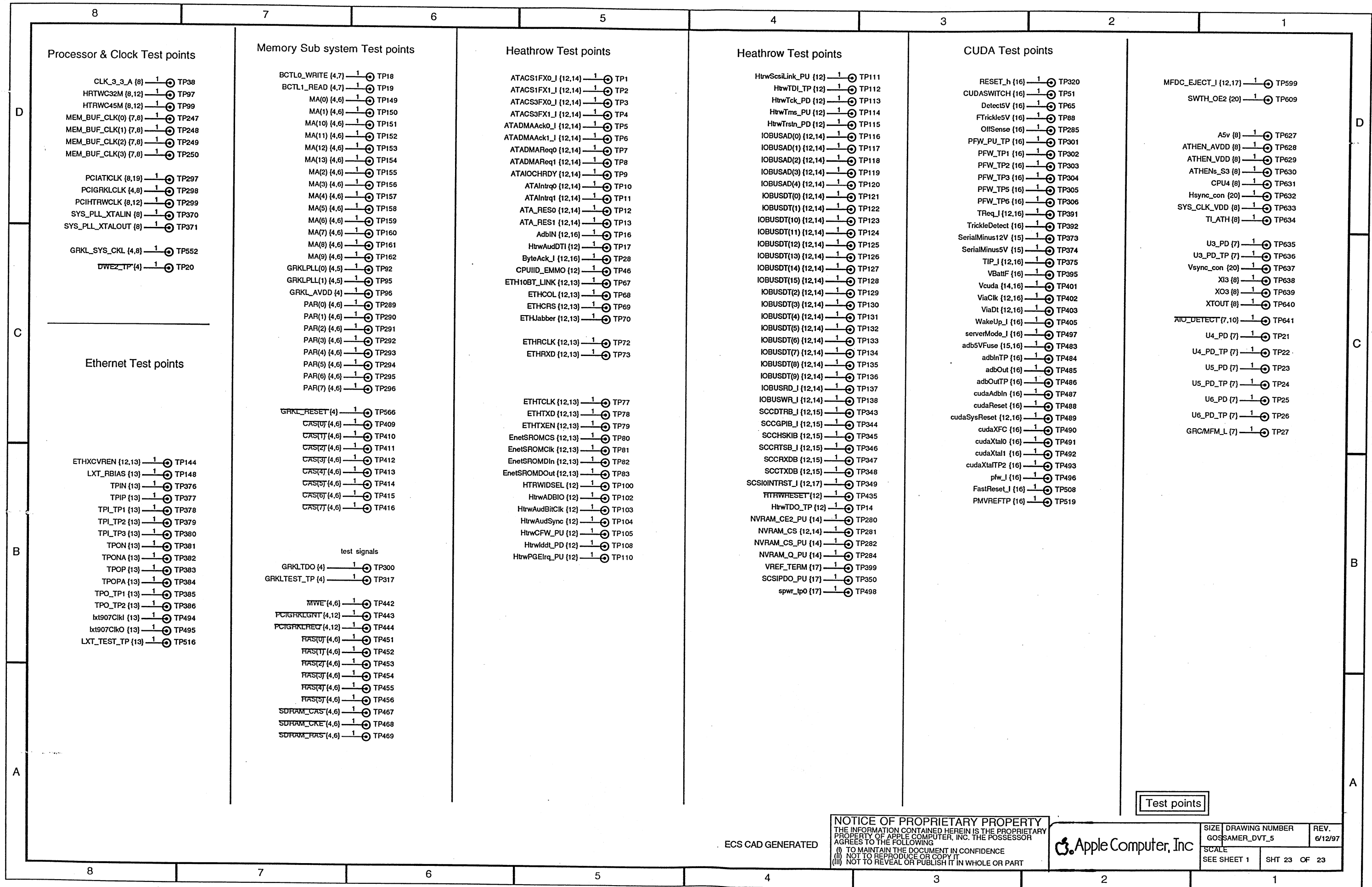
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8	7	6	5	4	3	2	1						
REFERENCE DESIGNATOR LOCATIONS													
BT1 16-C7	C122 9-B6 C123 9-A6 C124 9-A6 C128 9-B1 C129 9-B1 C130 9-A1 C131 9-A1 C163 11-A6 C164 11-A6 C165 11-A5 C166 11-A5 C167 11-A5 C168 11-A5 C169 11-A3 C170 11-A3 C171 11-A3 C172 11-A2 C173 11-A2 C174 11-A2 C176 11-A1 C177 12-D7 C178 12-D7 C179 12-D7 C180 12-D7 C181 12-D7 C182 12-D6 C183 12-D6 C184 12-D6 C186 14-A5 C188 14-A6 C189 13-D8 C190 13-D7 C191 13-A7 C192 13-D5 C193 13-D5 C194 13-B3 C195 13-B3 C196 13-C3 C197 13-B2 C198 13-C2 C199 13-B2 C200 13-B2 C201 13-D5 C202 13-D5 C203 13-D5 C204 13-D6 C205 15-B6 C206 15-A6 C207 15-C6 C208 15-C5 C209 15-A5 C210 15-C5 C211 15-A5 C212 15-C4 C213 15-A4 C214 15-C4 C215 15-A4 C216 15-C3 C217 15-A3 C218 15-C3 C219 15-A3 C220 15-C3 C221 15-A3 C222 15-C3 C223 15-A3 C224 15-C2 C225 15-A2 C227 17-D6 C228 17-D6 C229 17-D6 C230 17-D6 C231 17-D6 C238 17-C2 C239 17-A2 C240 16-C8 C241 16-B7 C242 16-C7 C243 16-B7 C244 16-C5 C245 16-C6 C246 16-C5 C247 16-C5 C248 16-C5 C249 16-C7 C250 16-D3 C251 16-D3 C252 16-B4 C253 16-A5 C254 16-C3 C255 16-D2 C256 16-C1 C257 16-A3 C258 16-D1	C259 16-C1 C260 16-A2 C261 16-D1 C262 16-C2 C263 16-A1 C264 16-A1 C266 14-D1 C267 19-D7 C268 19-D7 C269 19-D7 C270 19-D3 C271 19-D3 C272 19-D2 C273 19-D2 C274 19-D2 C275 19-D2 C276 19-D2 C277 19-D2 C278 19-D2 C279 19-D2 C280 19-D2 C281 19-D1 C282 19-D1 C283 19-D1 C284 18-B8 C285 18-A8 C286 18-B8 C287 18-A8 C288 18-B7 C289 18-A7 C290 18-B7 C291 18-A7 C292 18-B7 C294 18-B7 C296 18-B6 C298 18-B6 C301 18-B6 C304 18-B5 C306 20-D5 C307 20-D5 C308 20-D5 C309 20-C4 C310 20-B4 C311 20-C3 C312 20-B3 C313 20-C3 C314 20-B3 C315 20-C2 C316 20-D1 C328 18-A2 C330 2-B3 C331 2-B2 C332 2-B2 C334 2-B2 C336 19-D1 C340 8-A8 C341 8-A8 C343 2-C2 C344 2-C1 C345 2-C1 C351 14-A6 C355 8-B7 C356 8-B7 C357 8-B8 C358 8-B7 C359 8-B7 C360 8-B7 C361 8-B6 C364 15-C8 C365 15-C7 C366 15-C7 C367 8-B7 C368 12-B2 C369 11-A4 C370 11-A8	J1 5-D7 J2 7-D2 J3 9-A7 J4 9-A4 J5 9-A2 J6 11-B7 J7 11-B5 J8 11-B2 J9 14-D5 J10 14-B5 J11 13-B1 J12 15-C7 J13 15-C4 J14 3-D6 J15 17-C2 J16 5-B3 J17 16-A8 J18 16-D2 J19 16-A2 J20 3-C5 J22 20-C2 J23 10-D6 J24 18-A2 J25 3-C5 J26 3-C5 J27 17-B2 J28 17-A5 J30 3-B5	R49 5-B2 R50 5-B2 R51 5-B2 R52 5-B2 R53 18-A4 R54 10-C4 R55 4-B1 R56 10-C5 R57 4-B1 R58 4-B1 R59 7-C7 R61 7-A3 R62 7-C4 R63 8-C4 R64 10-D4 R65 8-C4 R66 2-B2 R67 7-C6 R68 6-C7 R72 8-A5 R73 8-B4 R74 8-B4 R75 8-B4 R76 8-B4 R77 8-B4 R78 8-A5 R79 8-A5 R80 8-A5 R81 8-B4 R82 8-B4 R83 8-B4 R84 8-B4 R85 8-B4 R86 8-A5 R87 8-A5 R88 3-D3 R89 3-D3 R91 6-C7 R92 19-C7 R93 19-A3 R94 19-A3 R95 8-D7 R96 8-D4 R97 8-C5 R98 3-C2 R99 8-C4 R100 8-C7 R101 3-D2 R102 3-D2 R103 3-D2 R104 5-D2 R106 5-D1 R108 5-D1 R110 11-C6 R111 3-B2 R112 11-A5 R113 11-A5 R114 11-A5 R115 3-B1 R116 11-A4 R117 11-A4 R118 11-A4 R119 11-C4 R120 11-C1 R121 8-C7 R122 12-C6 R123 12-D5 R124 8-C8 R125 8-B6 R126 12-B2 R127 12-B2 R129 14-A7 R130 14-A8 R131 14-A5 R132 8-D5 R133 14-A7 R134 14-A7 R135 14-A8 R136 14-A6 R137 13-B6 R138 13-B4 R139 13-B4 R140 13-B4 R141 13-B4 R143 15-C7 R144 15-C7 R146 15-B6 R147 17-B6 R148 17-D6 R149 3-C3	R150 3-C3 R151 16-B7 R152 16-C8 R153 16-C8 R154 16-B7 R155 16-D4 R156 16-C6 R157 16-D5 R158 16-D7 R159 16-D7 R160 16-D6 R161 14-A8 R162 16-A5 R163 16-C7 R164 16-C4 R165 16-A4 R166 16-A4 R168 16-B3 R169 16-C3 R170 16-B2 R171 19-B7 R172 3-C5 R173 14-D4 R174 19-D8 R175 14-D3 R176 14-D2 R177 19-C8 R178 19-D7 R179 19-C8 R180 19-D8 R181 19-D8 R182 19-C8 R183 19-D8 R184 19-C7 R185 19-A1 R186 19-A7 R187 19-D7 R188 19-A7 R189 19-A3 R190 19-D7 R191 19-A7 R192 19-A7 R193 19-B3 R194 19-B3 R195 19-B3 R196 19-B2 R197 19-A3 R198 19-B3 R199 19-B2 R200 19-A2 R201 19-A2 R202 19-B1 R203 19-D1 R204 19-D1 R205 3-A7 R206 18-C8 R207 18-C7 R208 18-C5 R209 19-D8 R210 19-B7 R215 20-B7 R216 20-A7 R217 20-A7 R218 20-D6 R219 20-D6 R220 20-D6 R221 20-D5 R222 20-C5 R223 20-C5 R231 8-B8 R232 8-A8 R236 15-D6 R237 8-B4 R238 8-B4 R239 8-A4 R240 8-A4 R241 8-A4 R242 8-A4 R243 8-A4 R244 8-A4 R245 8-A5 R246 8-C8 R248 19-A7 R249 3-A7 R252 15-C8 R254 8-C4 R255 8-B4 R266 8-A6 R268 15-C6 R271 16-C2 R273 12-B2	R275 10-D4 R276 4-B7 R282 12-A5 R284 8-C4 R285 18-B6 R288 19-B8 R289 19-B8 R290 18-B6 R291 14-A6 R294 7-A6 R295 16-A4 R296 7-A7 R297 3-A7 R299 20-B4 R300 18-C8 R301 18-C6 R302 7-C3 R303 4-D5 R304 15-D7 R305 10-D5 R306 10-D4 R307 10-D4 R308 10-C4 R309 17-B6 R310 17-B5 R311 19-B8 R312 19-B8 R313 19-B7 R314 19-B7 R315 19-B7 R320 19-B8 R321 19-B8 R322 19-B8 R324 19-B7 R326 14-C3 R327 14-C4	RP56 14-B7 RP57 12-B1 RP58 12-B1 RP59 14-B7 RP63 10-B4 RP69 12-B7 RP73 13-B7 RP74 13-C5 RP75 17-B8 RP76 17-B7 RP77 17-B7 RP78 16-C4 RP79 16-C2 RP80 19-C2 RP81 19-C2 RP82 19-B2 RP83 19-B2 RP85 6-B6 RP86 6-B6 RP87 6-B6 RP89 6-B6 RP94 10-B4 RP95 10-B4 RP96 10-B4 RP97 10-B4 RP98 10-B4 RP99 10-B4 RP100 10-A4 RP101 19-A7 RP102 19-B7 RP103 14-C4 RP104 14-B3 RP105 14-B4 RP106 14-A4	S1 16-B8 S2 16-B8	T1 13-B2	U1 2-A7 U2 4-A6 U3 7-C7 U4 7-A7 U5 7-C6 U6 7-A6 U7 20-A4 U8 8-C6 U22 12-A4 U24 13-A7 U25 13-B6 U26 15-C6 U27 15-B6 U28 17-C6 U29 16-C5 U31 16-B5 U32 16-A7 U34 14-C2 U35 19-A6 U36 18-B7 U37 18-B5 U45 20-B8 U47 8-A6	VR1 18-A3 VR5 15-C8	XS1 19-B1 XS2 19-B1 XS3 19-B1 XS4 19-B1	Y1 8-C8 Y2 16-C8 Y4 13-D8 Y6 8-B8
Graphics Sub system Test points													
MD(36) {18,19} TP204 MD(37) {18,19} TP205 MD(38) {18,19} TP206 MD(39) {18,19} TP207 MD(4) {18,19} TP208 MD(40) {18,19} TP209 MD(41) {18,19} TP210 MD(42) {18,19} TP211 MD(43) {18,19} TP212 MD(44) {18,19} TP213 MD(45) {18,19} TP214 MD(46) {18,19} TP215 MD(47) {18,19} TP216 MD(48) {18,19} TP217 MD(49) {18,19} TP218 MD(5) {18,19} TP219 MD(50) {18,19} TP220 MD(51) {18,19} TP221 MD(52) {18,19} TP222 MD(53) {18,19} TP223 MD(54) {18,19} TP224 MD(55) {18,19} TP225 MD(56) {18,19} TP226 MD(57) {18,19} TP227 MD(58) {18,19} TP228 MD(59) {18,19} TP229 MD(6) {18,19} TP230 MD(60) {18,19} TP231 MD(61) {18,19} TP232 MD(62) {18,19} TP233 MD(63) {18,19} TP234 MD(7) {18,19} TP235 MD(8) {18,19} TP236 MD(9) {18,19} TP237 MDQM(0) {18,19} TP239 MDQM(1) {18,19} TP240 MDQM(2) {18,19} TP241 MDQM(3) {18,19} TP242 MDQM(4) {18,19} TP243 MDQM(5) {18,19} TP244 MDQM(6) {18,19} TP245 MDQM(7) {18,19} TP246 MMA(0) {18,19} TP257 MMA(1) {18,19} TP258 MMA(2) {18,19} TP259 MMA(3) {18,19} TP260 MMA(4) {18,19} TP261 MMA(5) {18,19} TP262 MMA(6) {18,19} TP263 MMA(7) {18,19} TP264 MMA(8) {18,19} TP265 MMA(9) {18,19} TP266 MMCLK {18,19} TP267 MONID1 {19,20} TP268 MONID2 {19,20} TP269 MREQ_DSIF {18,19} TP270													
SWTH_A2_TP {20} TP84 SWTH_B2_TP {20} TP558 MON_CTRL {12,20} TP568 MONIDO {20} TP569 GRAPHICSINT {12,19} TP421 GRAPHICSREQ {12,19} TP422 MCASU {18,19} TP437 ATL_CS3 {19} TP438 MFRASU {18,19} TP440 ATL_CS2 {18,19} TP441 PRECSYNC {20} TP446 PREHSTNC {20} TP447 PREVME {19} TP448 PREVROMCS {19} TP449 PREVSTNC {20} TP450 VME {18,19} TP476 CASU {19} TP417 CAST {19} TP418 RSET {19} TP341 SGRM_CKE0 {18} TP562 SGRM_CKE1 {18} TP567 VIDEO_IDSEL {19} TP396 VID_14M {8,19} TP397 PVSS_ATI {19} TP398 RASU {19} TP457 FAST {19} TP458 ATIROMCS {19} TP499 ATL_CS0 {18,19} TP593 ATL_CS1 {18,19} TP594 pre_SAD0 {19} TP616 pre_SAD1 {19} TP617 pre_SAD2 {19} TP618 pre_SAD3 {19} TP619 pre_SAD4 {19} TP620 pre_SAD5 {19} TP621 pre_SAD6 {19} TP622 pre_SAD7 {19} TP623 pre_SLOW {19} TP624 pre_SIOR {19} TP625 EDCLK {19} TP626 FDBK {18} TP577 ATL_TV_CLK {19} TP578 VR_GND {18} TP579													
Test Points													
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