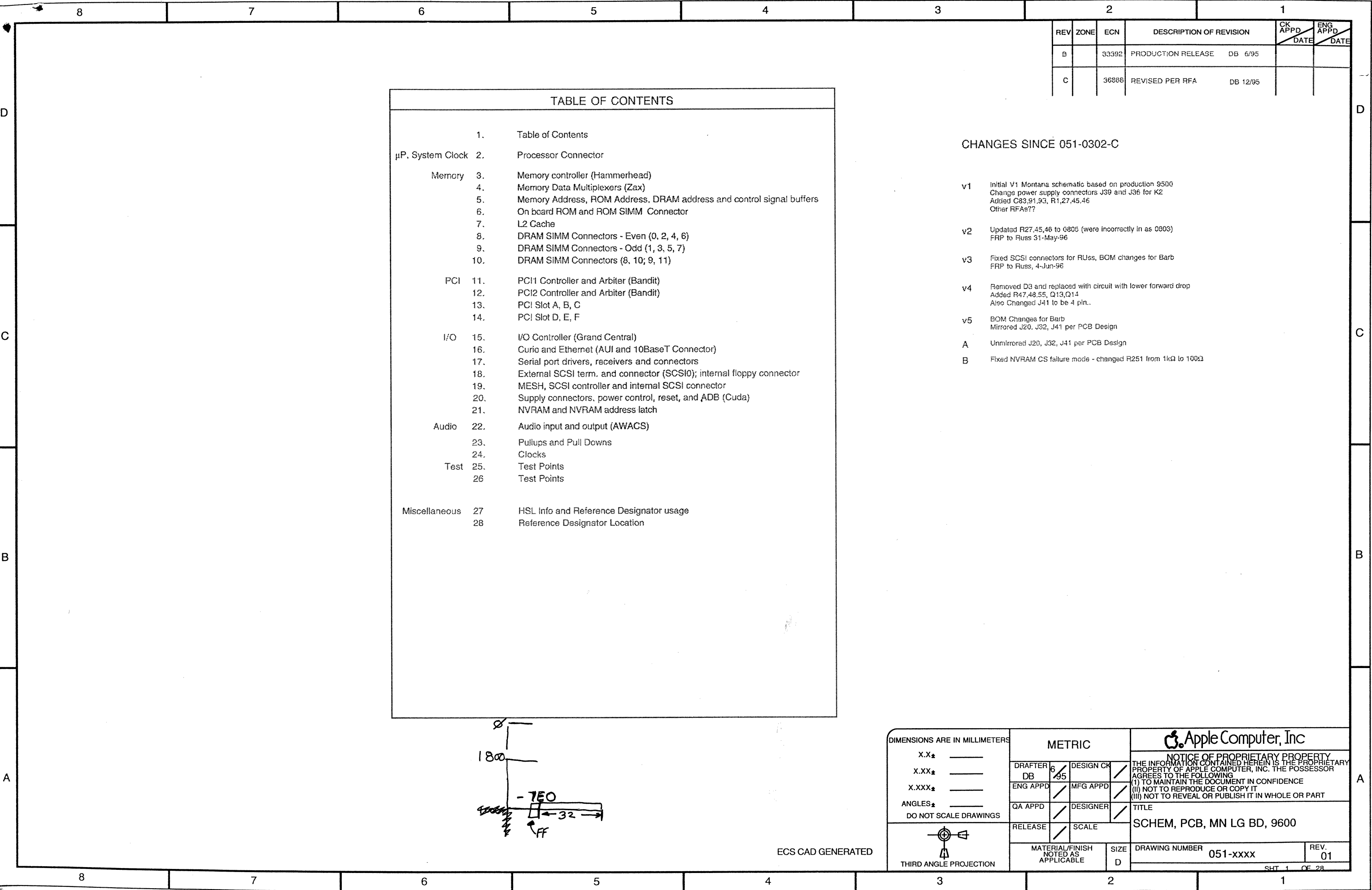




CHANGES SINCE 051-0302-C

v1

initial V1 Montana schematic based on production 9500
Change power supply connectors J39 and J36 for K2
Added C83,91,93, R1,27,45,46
Other RFAs??

v2

Updated R27,45,46 to 0805 (were incorrectly in as 0803)
FRP to Russ 31-May-96

v3

Fixed SCSI connectors for RUss, BOM changes for Barb
FRP to Russ, 4-Jun-96

v4

Removed D3 and replaced with circuit with lower forward drop
Added R47,48,55, Q13,Q14
Also Changed J41 to be 4 pin..

v5

BOM Changes for Barb
Mirrored J20, J32, J41 per PCB Design

A

Unmirrored J20, J32, J41 per PCB Design

B

Fixed NVRAM CS failure mode - changed R251 from 1kΩ to 100Ω

1800

-750

32

FF

ECS CAD GENERATED

DIMENSIONS ARE IN MILLIMETERS

X.X*

X.XX*

X.XXX*

ANGLES*

DO NOT SCALE DRAWINGS

THIRD ANGLE PROJECTION

METRIC

DRAFTER

DB

6/95

DESIGN CK

ENG APPD

MFG APPD

QA APPD

DESIGNER

RELEASE

SCALE

MATERIAL/FINISH

NOTED AS APPLICABLE

SIZE

D

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TITLE

SCHEM, PCB, MN LG BD, 9600

DRAWING NUMBER

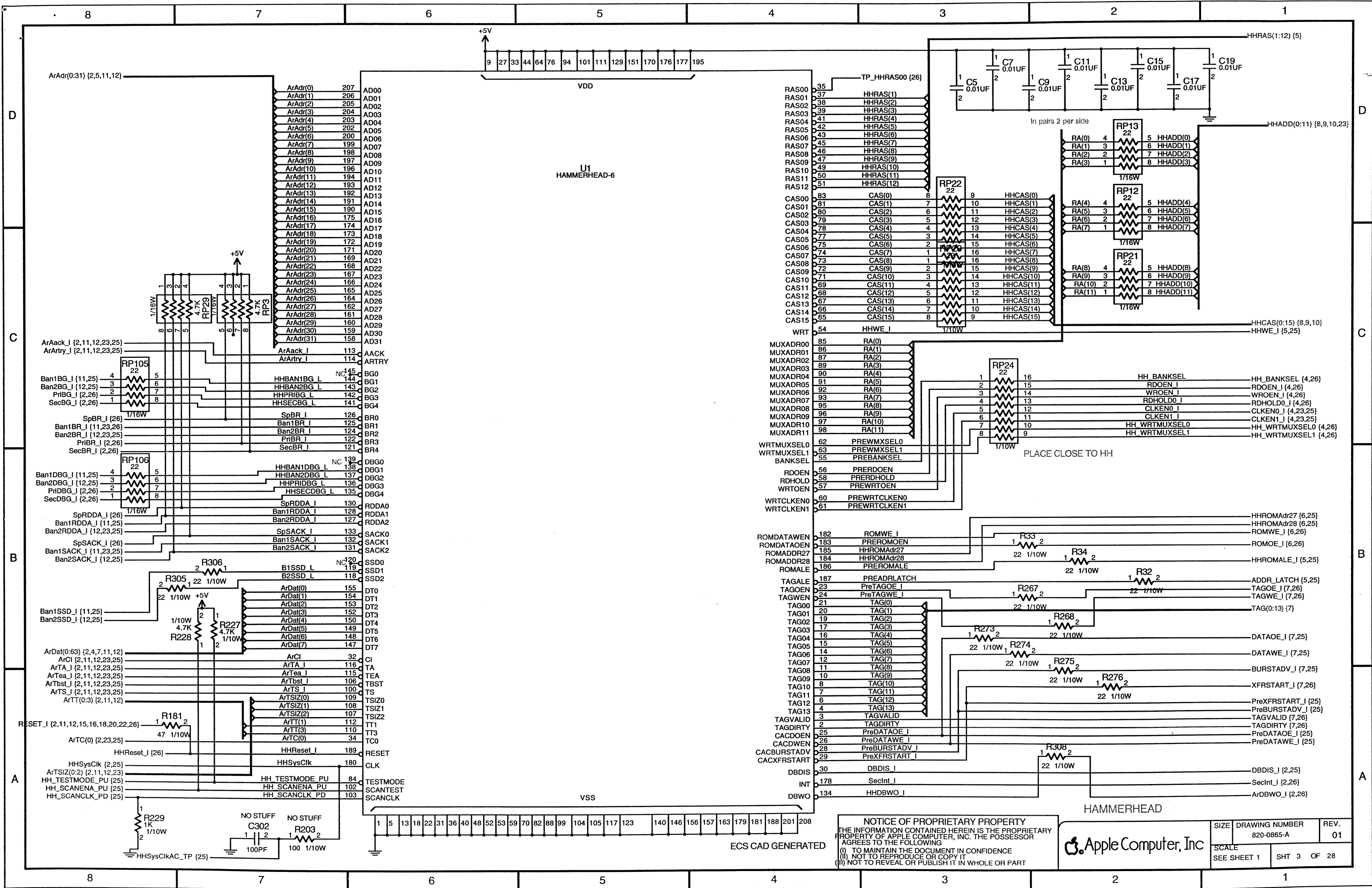
051-xxxx

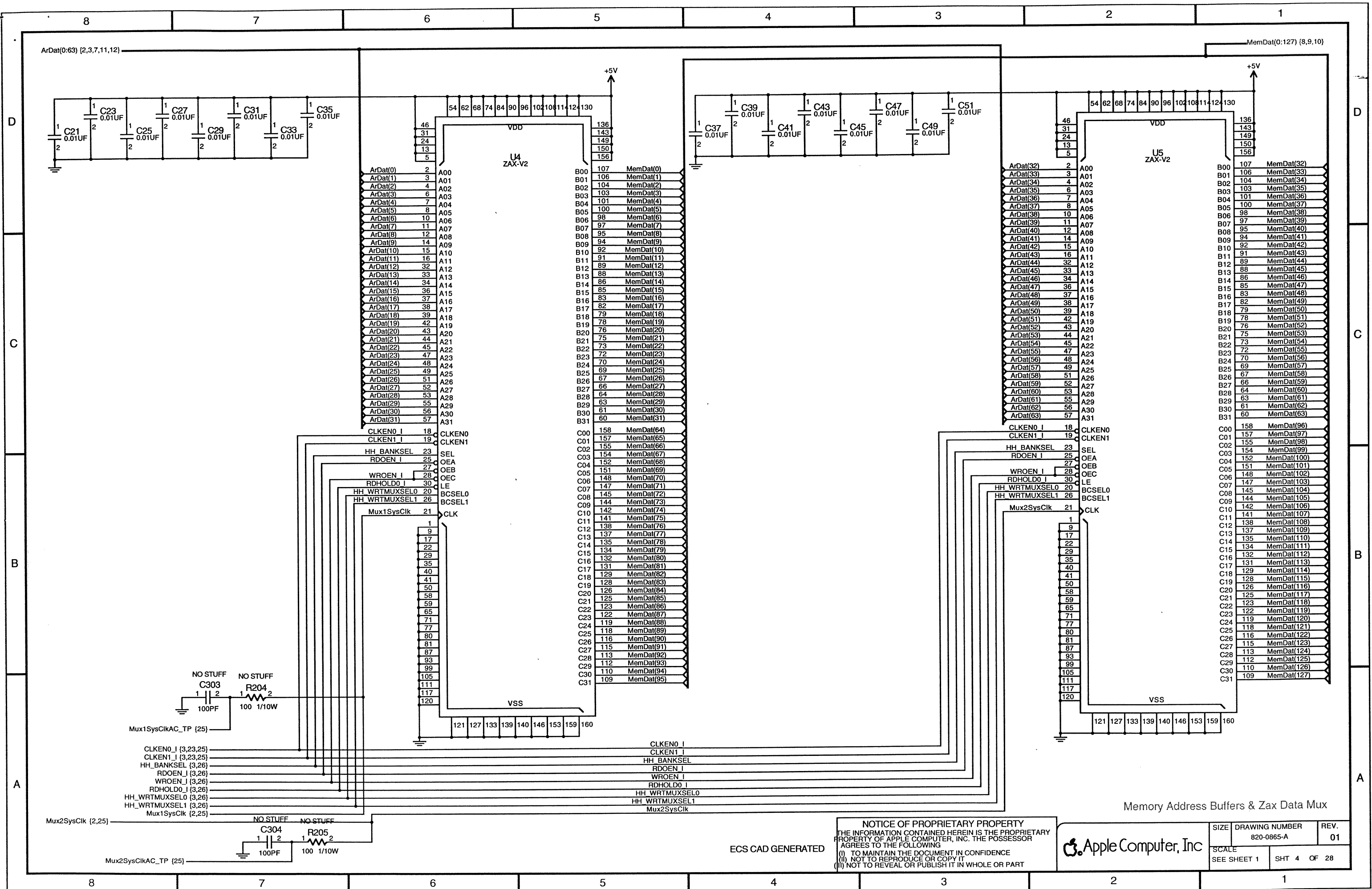
REV.

01

SHT 1

OF 23





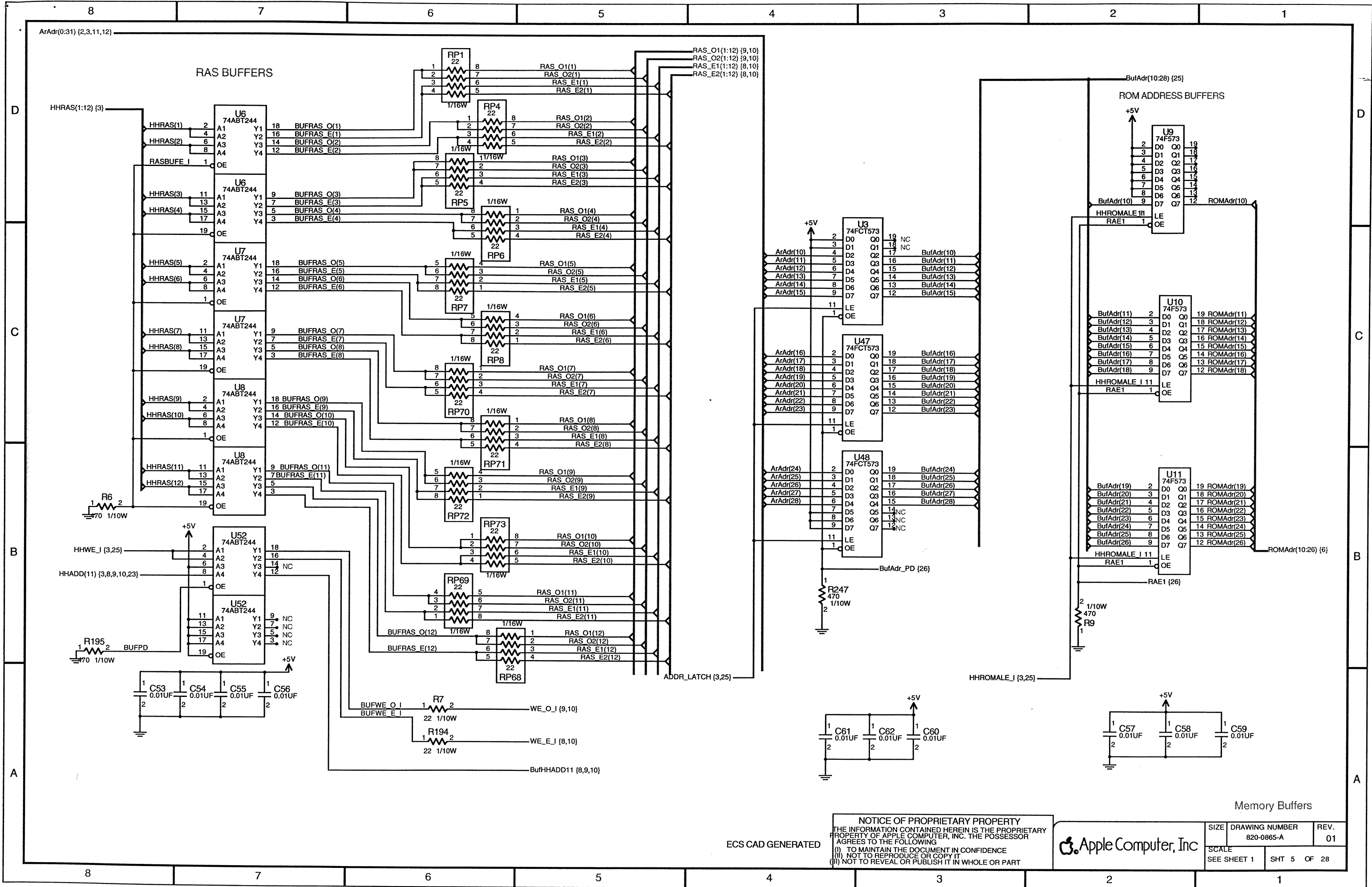
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Memory Address Buffers & Zax Data Mux

SIZE	DRAWING NUMBER	REV.
SCALE	820-0865-A	01
SEE SHEET 1	SHT 4 OF 28	

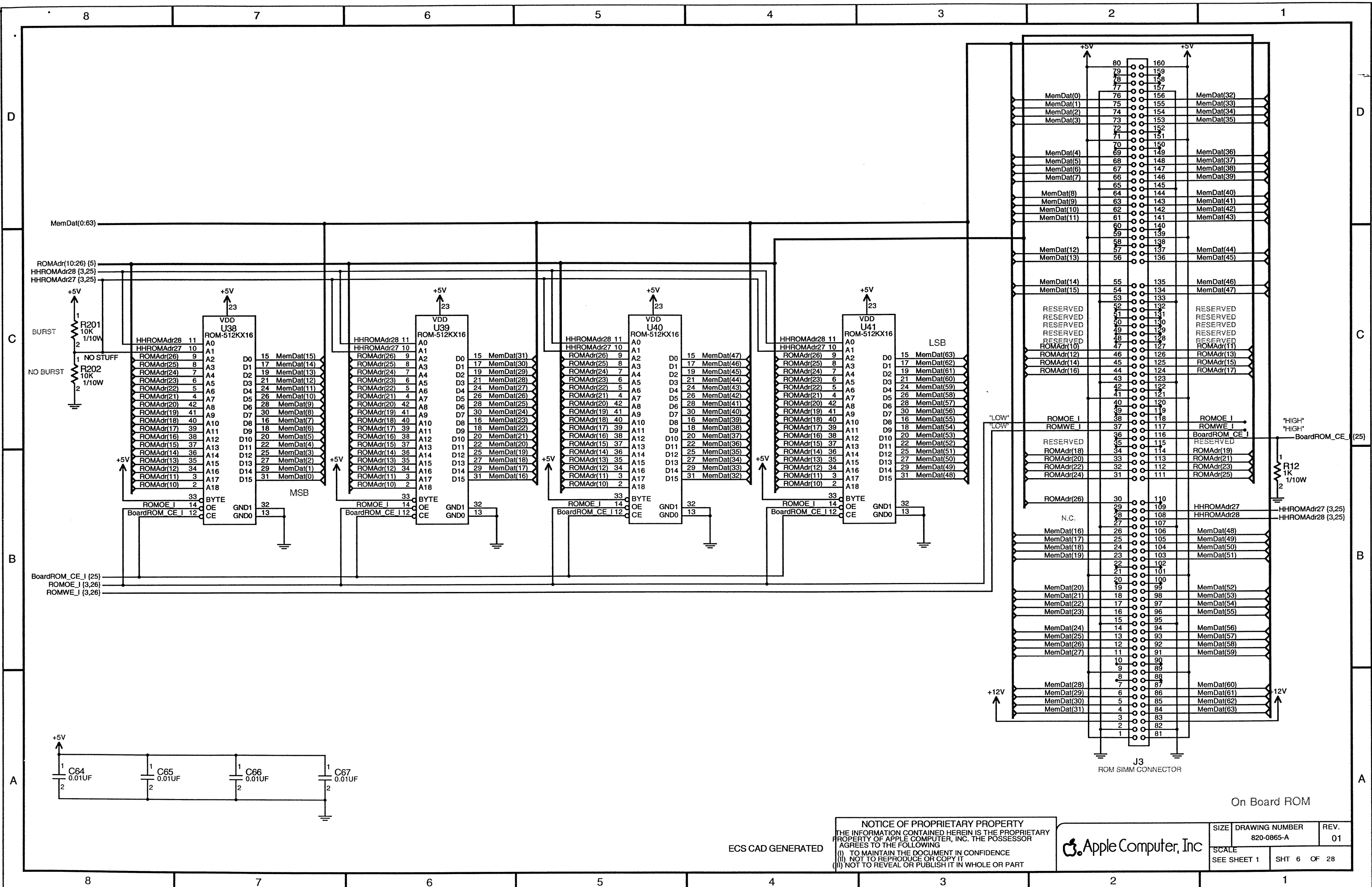


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Memory Buffers		SIZE	DRAWING NUMBER	REV.
			820-0865-A	01
SCALE	SHT 5 OF 28			
SEE SHEET 1				

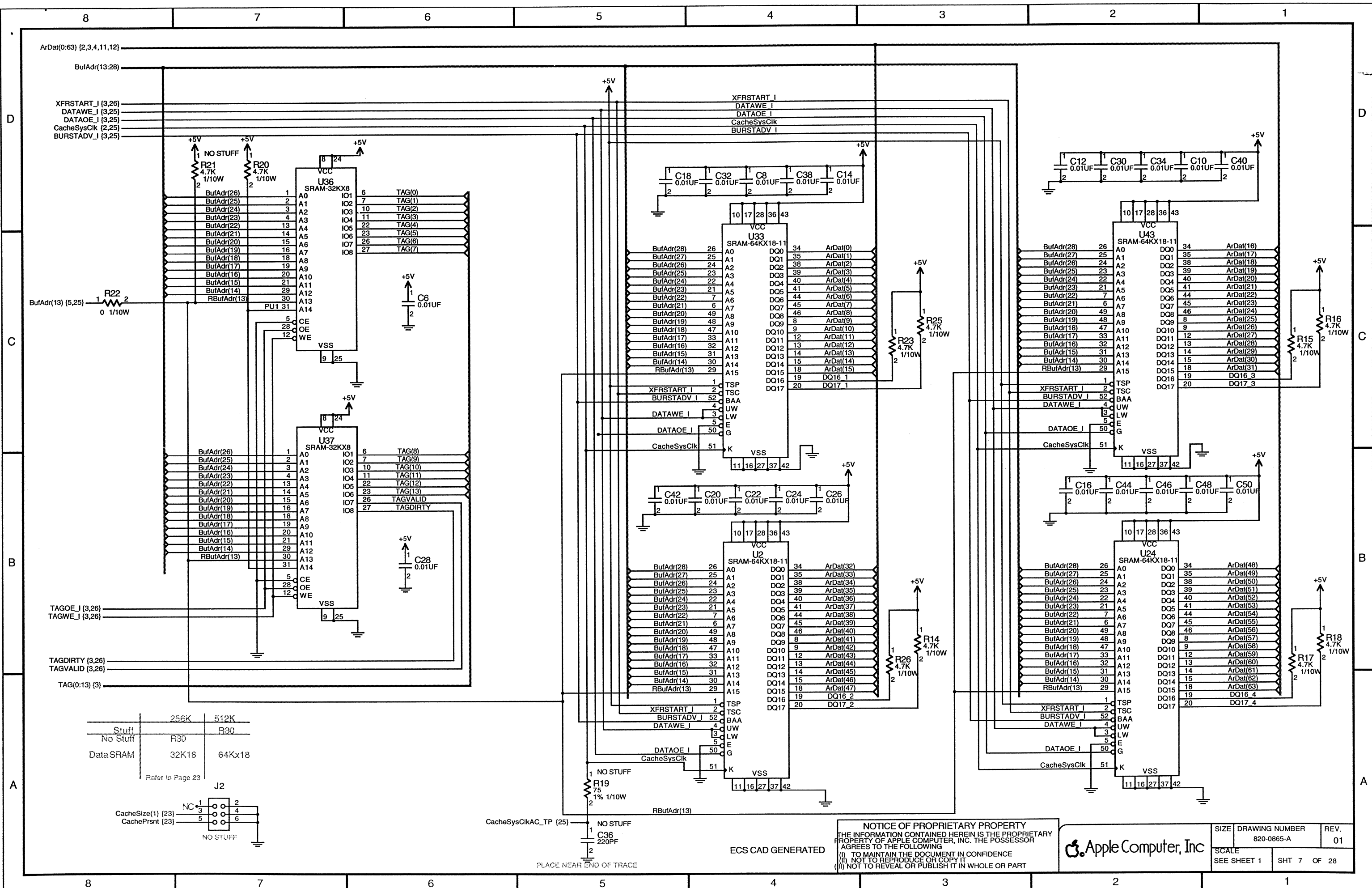


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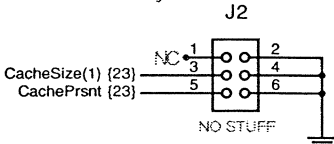
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SIZE	DRAWING NUMBER	REV.
	820-0865-A	01
SCALE	SHT 6 OF 28	
SEE SHEET 1		



	256K	512K
Stuff	R30	R30
No Stuff		
Data SRAM	32Kx18	64Kx18

Refer to Page 23



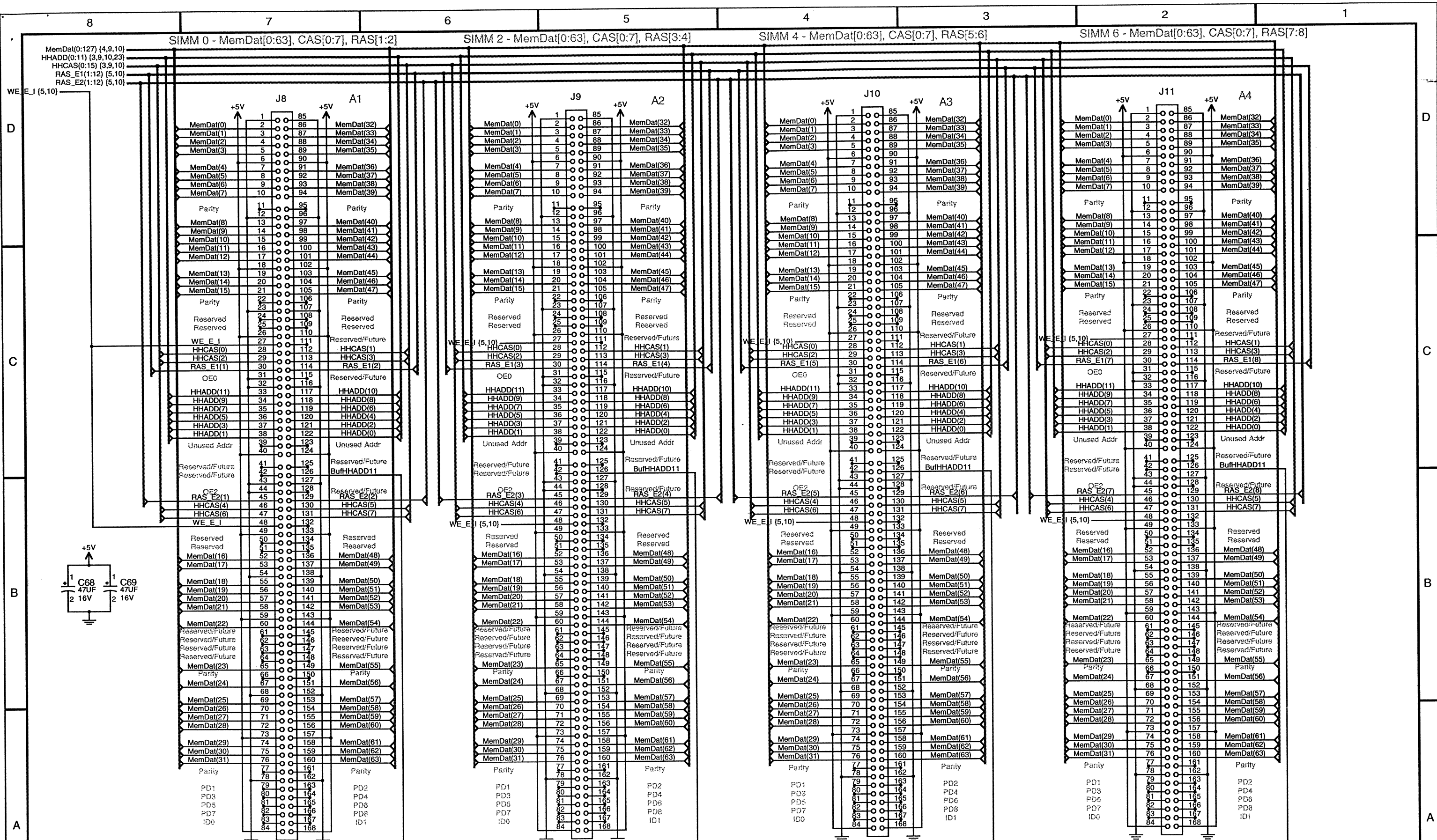
CacheSysClkAC_TP [25] NO STUFF
R19 1% 1/10W
C36 220PF
PLACE NEAR END OF TRACE

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SCALE	SHT 7 OF 28	
SEE SHEET 1		



EVEN SIMMS - MemDat[0:63], CAS[0:7], RAS_E(1:8), WE_E_I

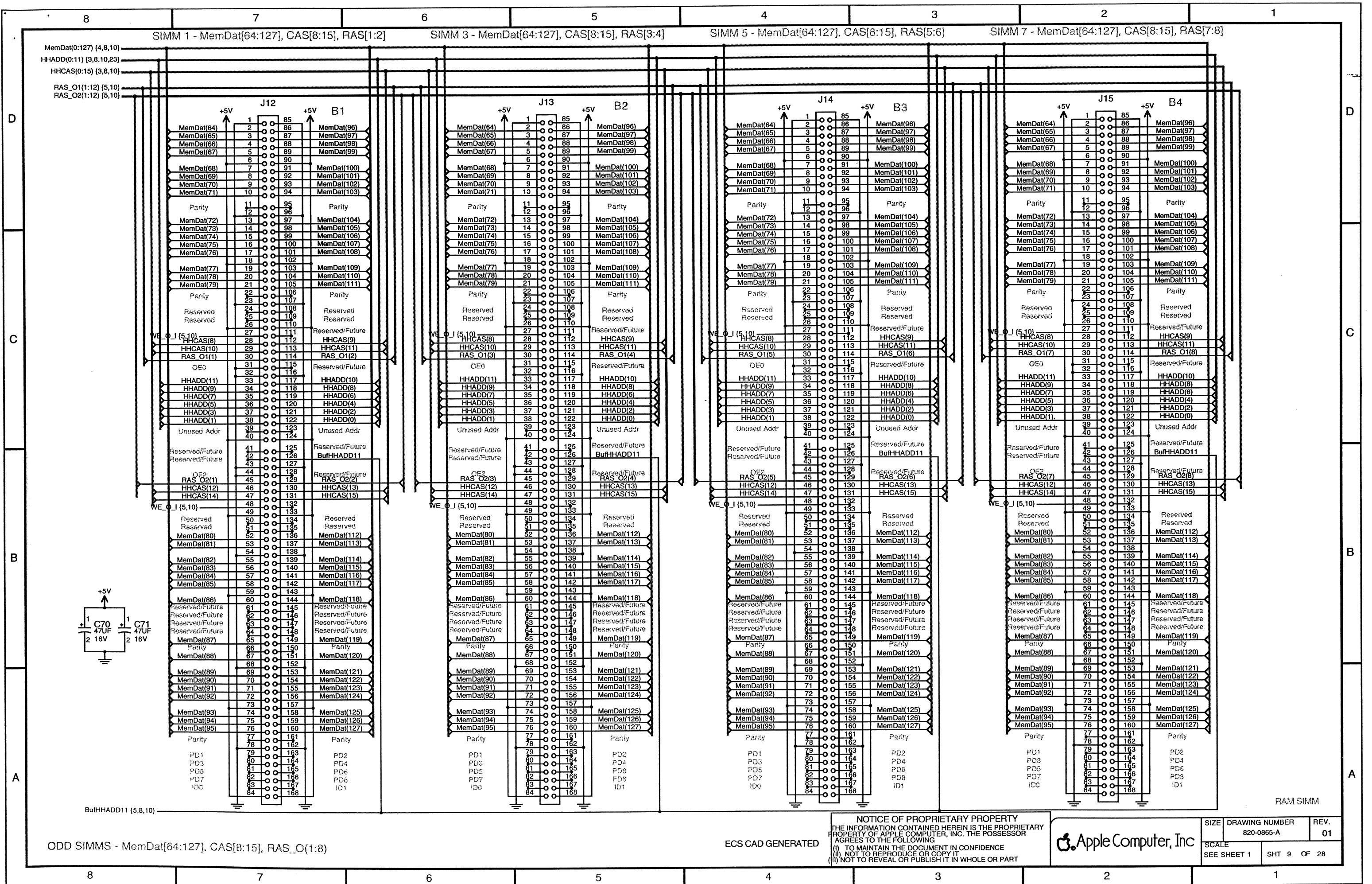
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	820-0865-A	01
SCALE	SHT 8 OF 28	
SEE SHEET 1		

RAM SIMM SOCKETS

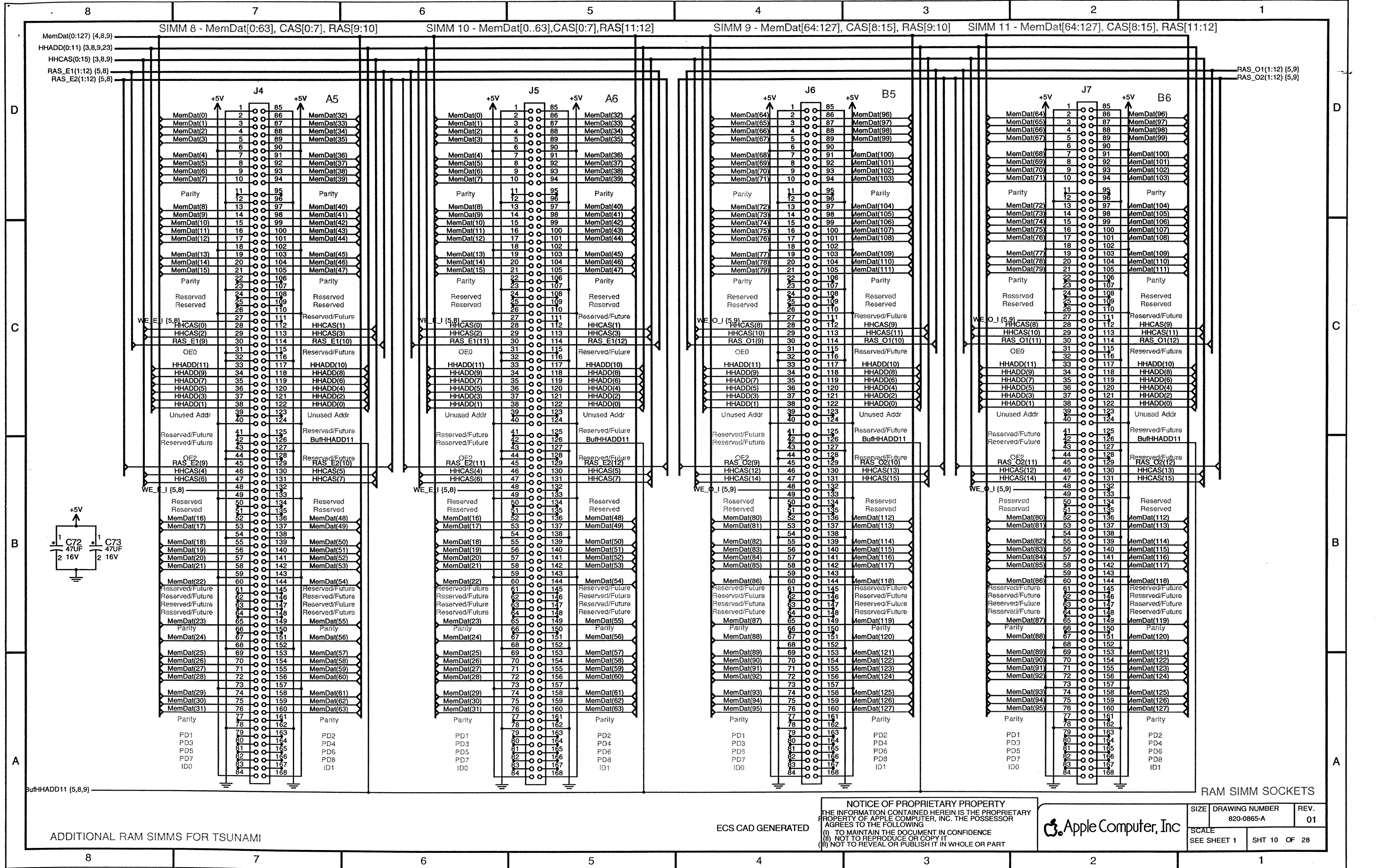


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SCALE	SHT 9 OF 28	
SEE SHEET 1		



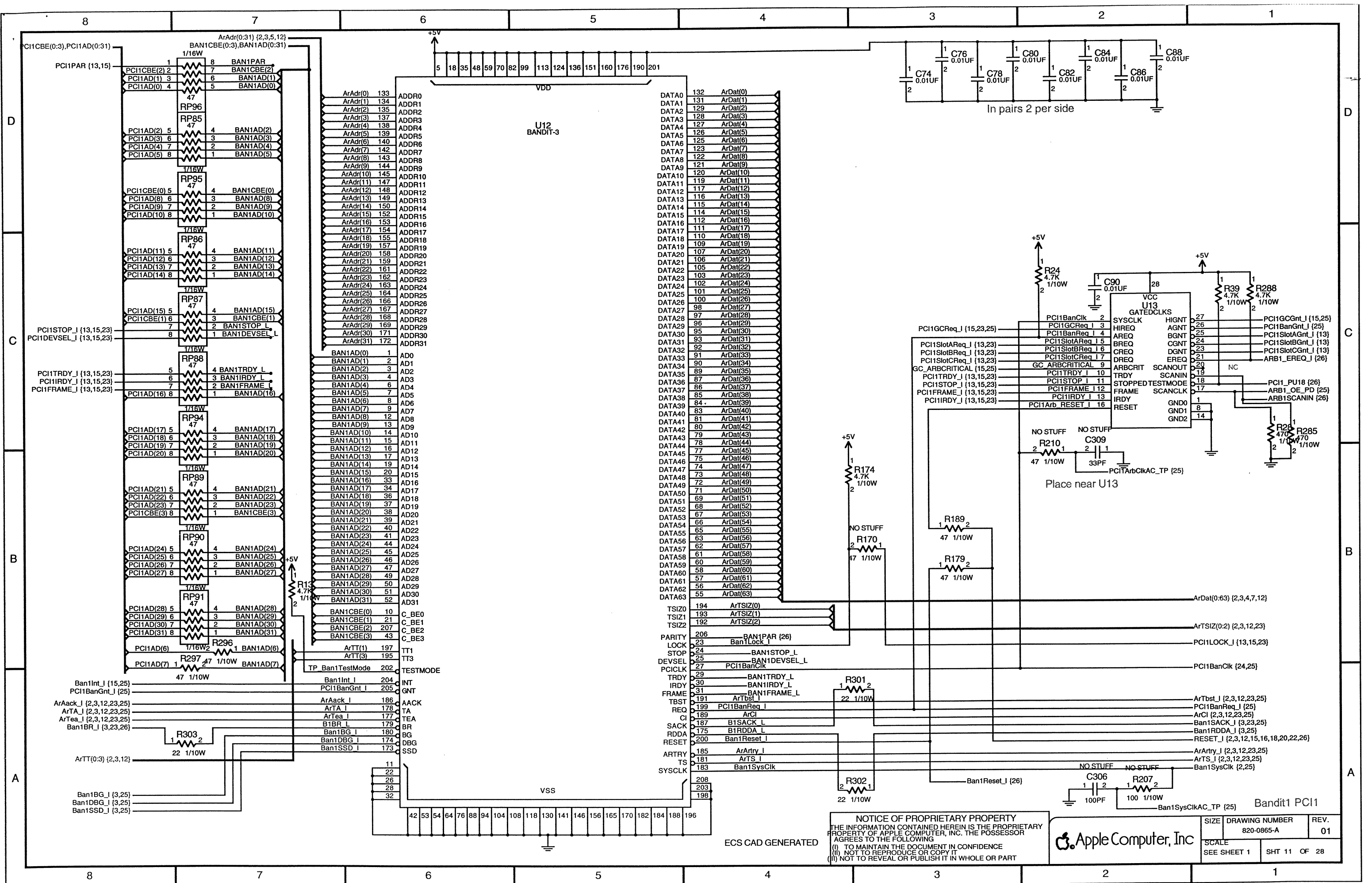
ADDITIONAL RAM SIMMS FOR TSUNAMI

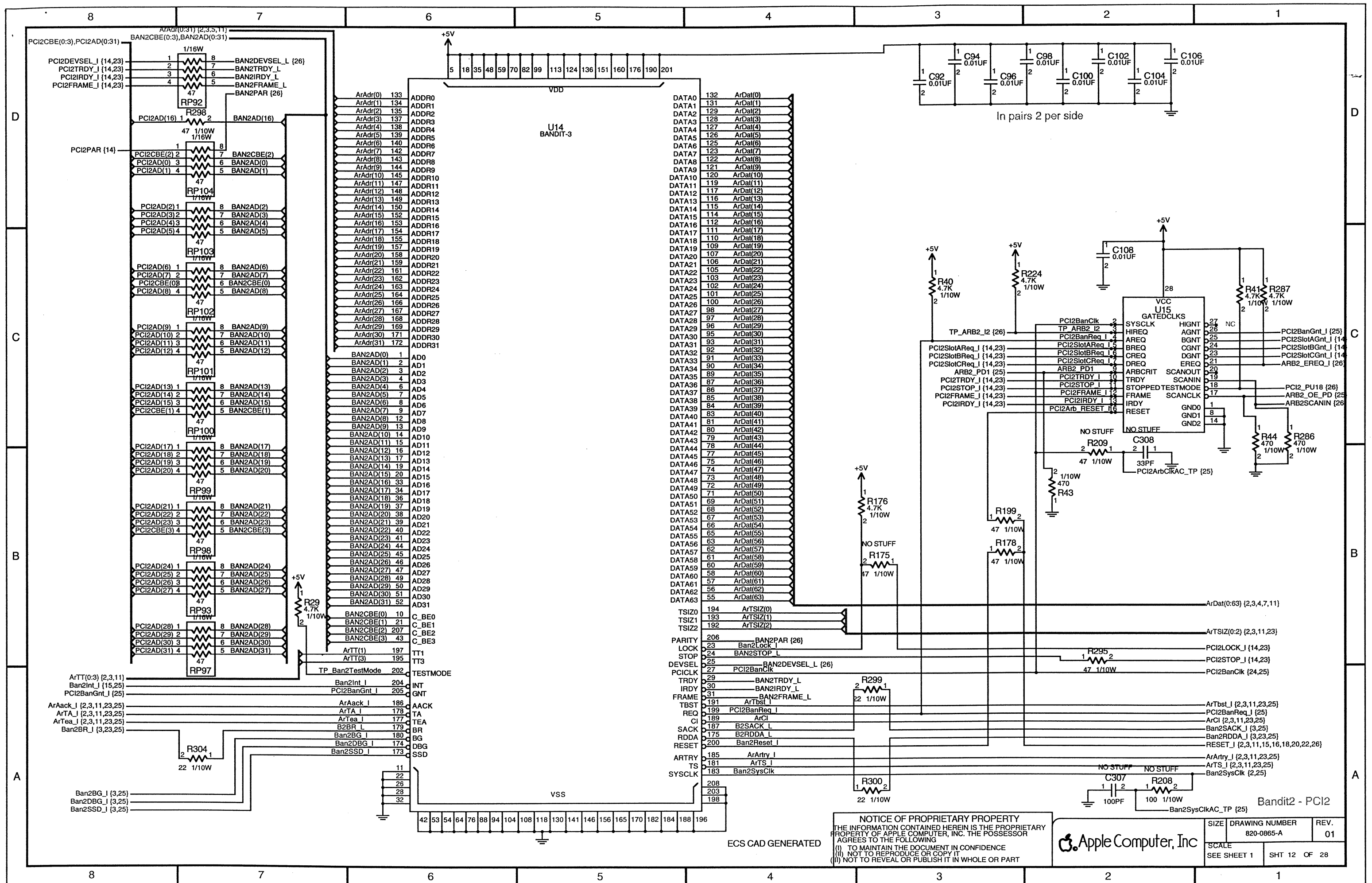
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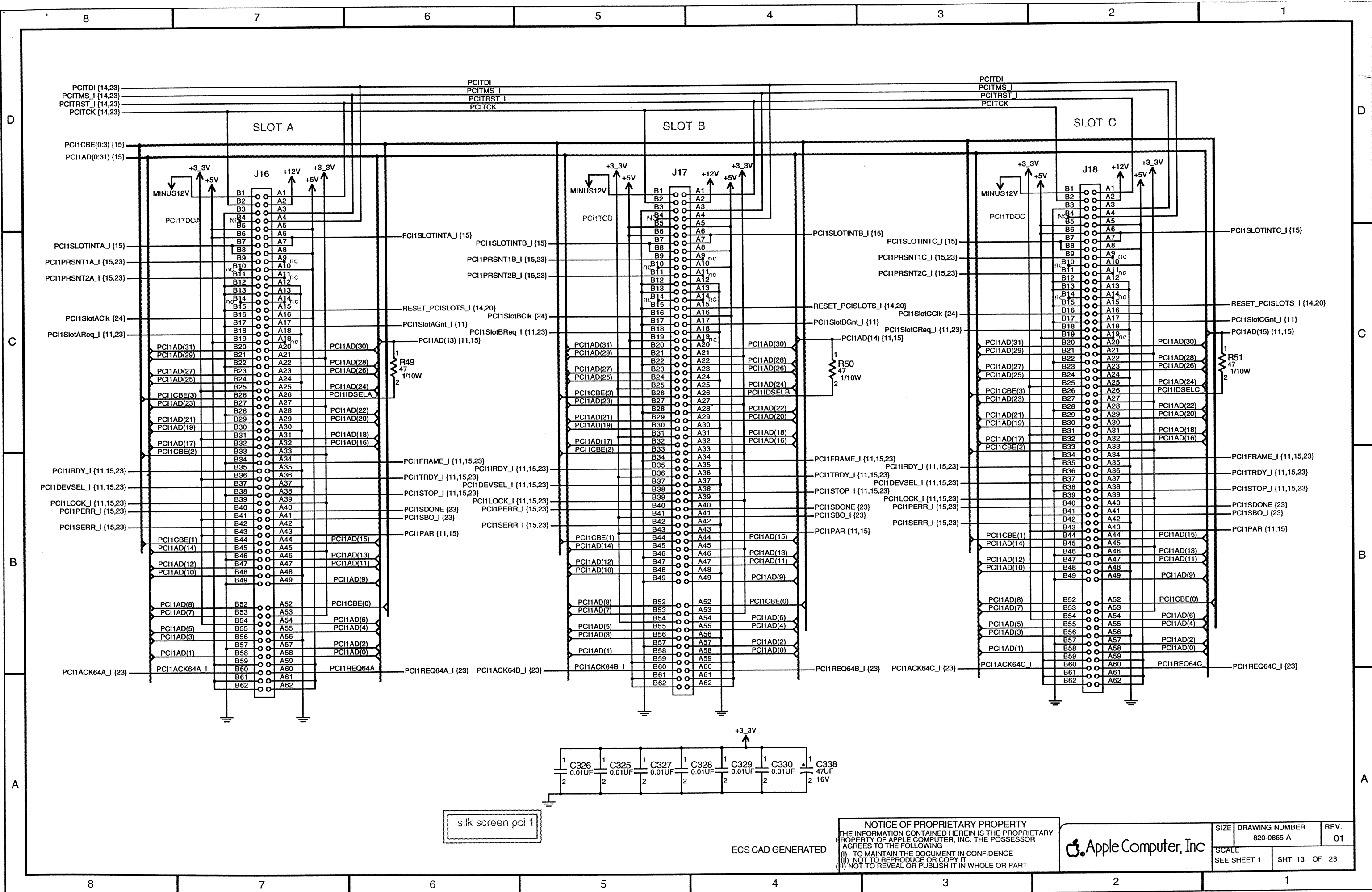
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SCALE	820-0865-A	01
SEE SHEET 1	SHT 10 OF 28	





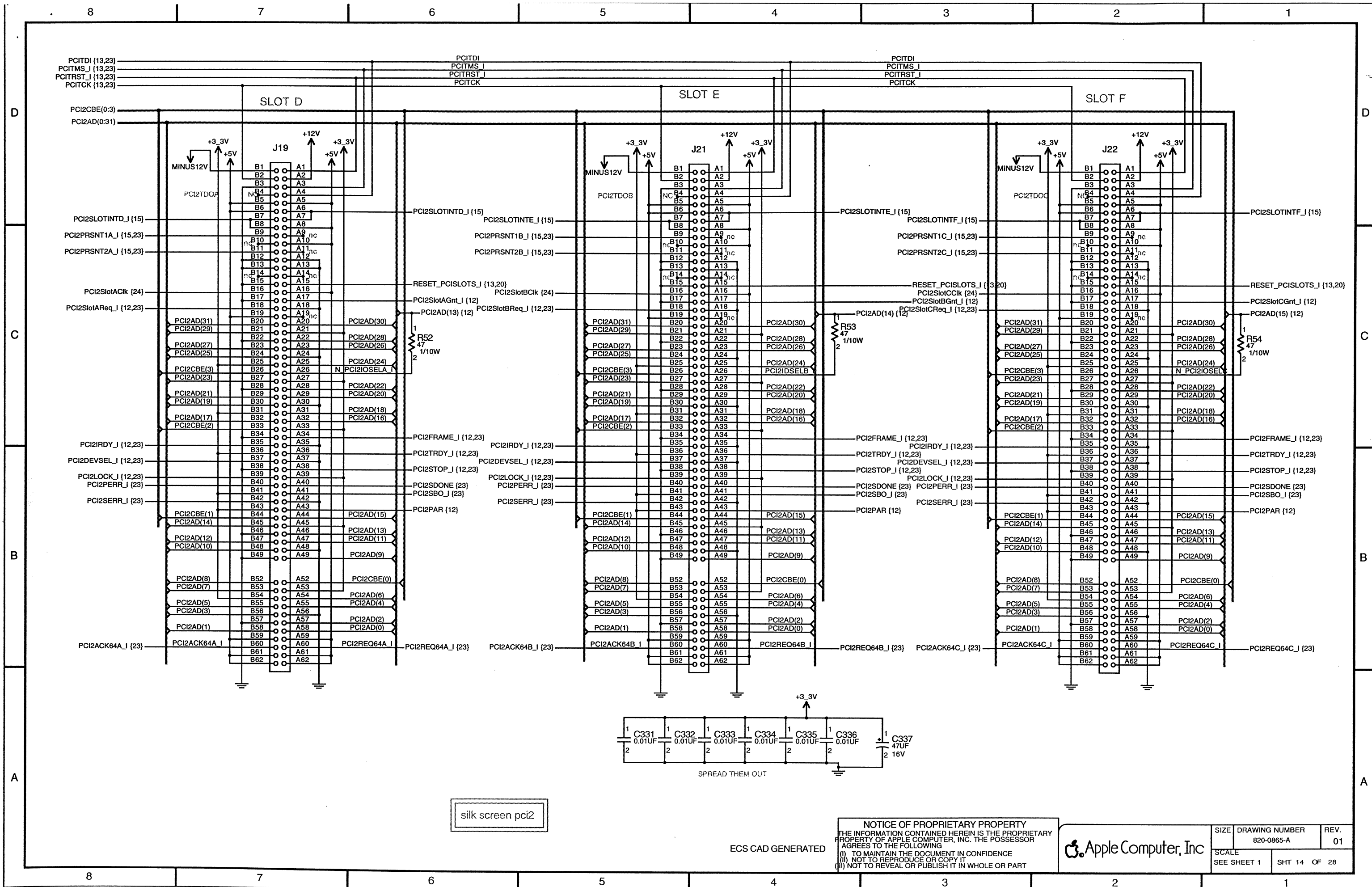


silk screen pci 1

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			820-0865-A	01
SCALE		SHT 13 OF 28		
SEE SHEET 1				

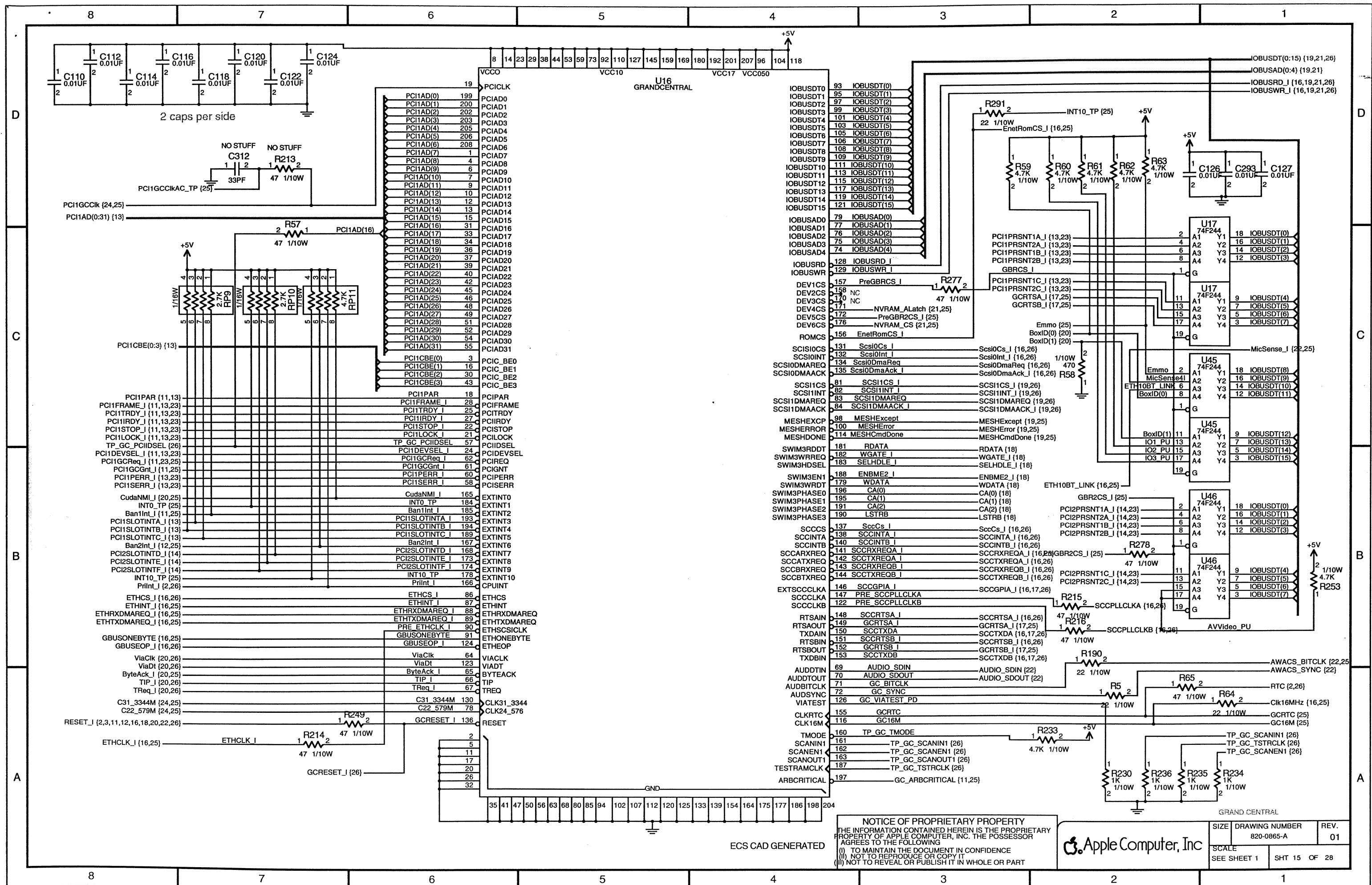


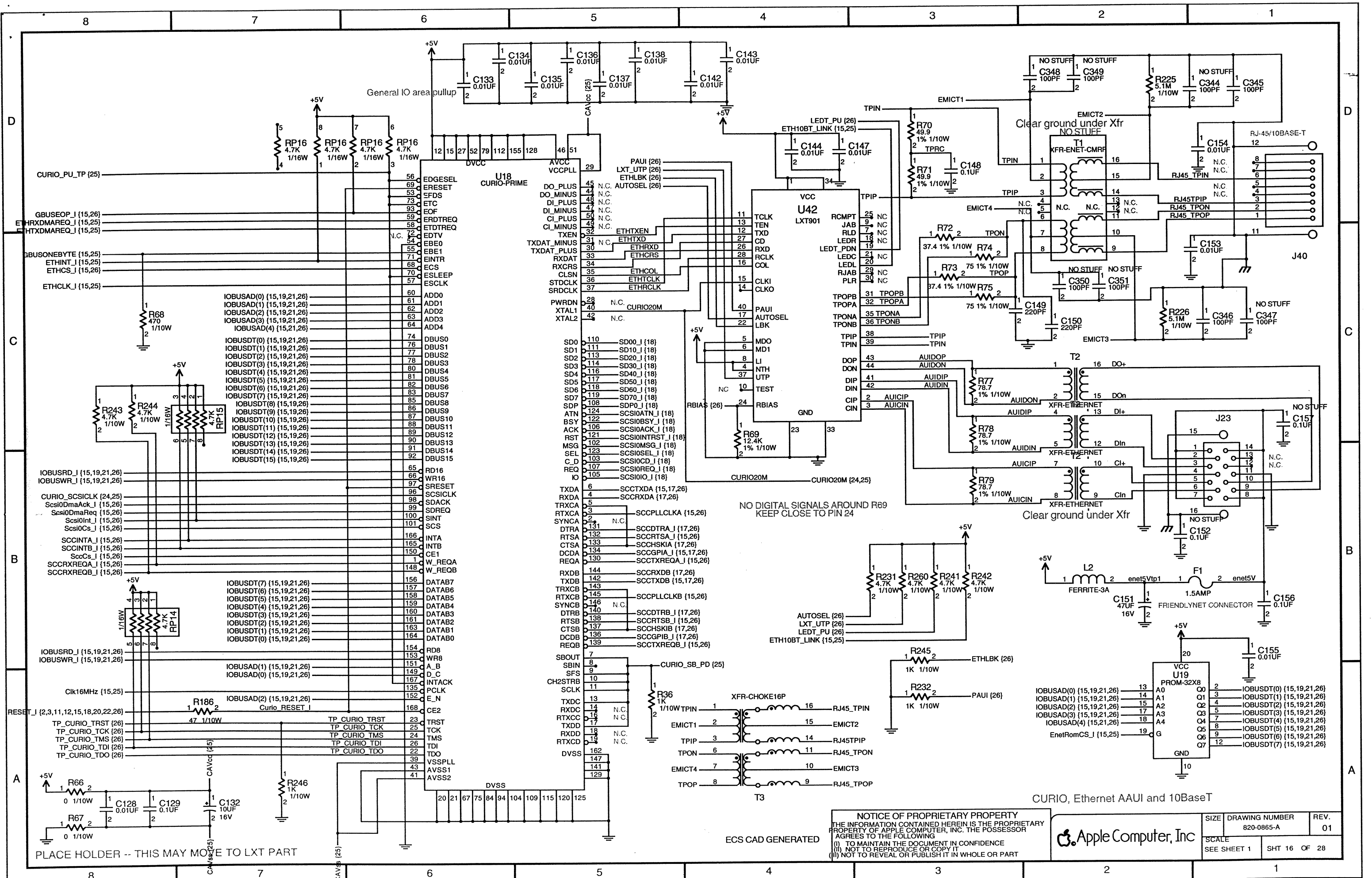
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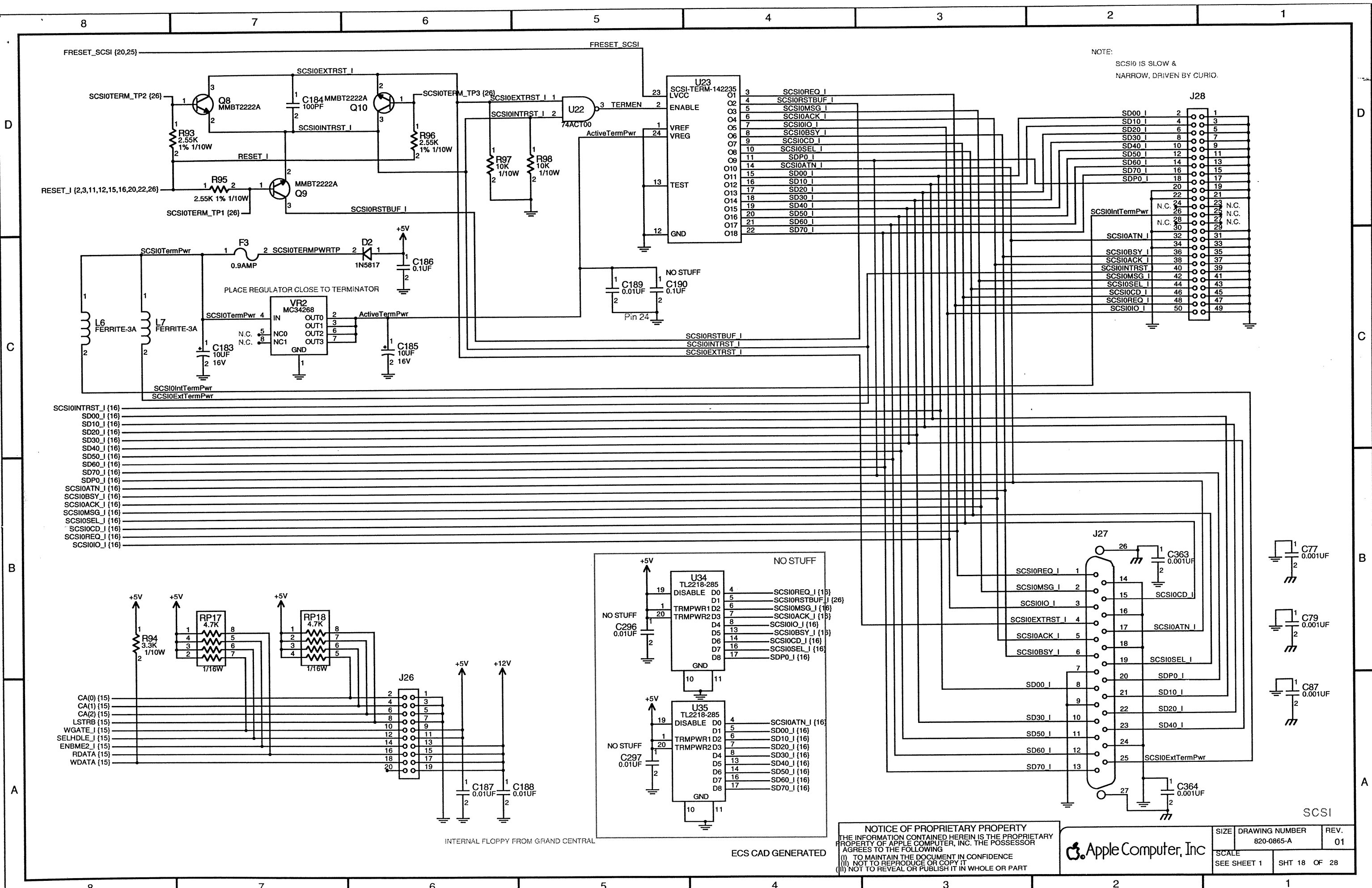
Apple Computer, Inc		SIZE	DRAWING NUMBER	REV.
			820-0865-A	01
SCALE		SHT 14 OF 28		
SEE SHEET 1				

silk screen pci2

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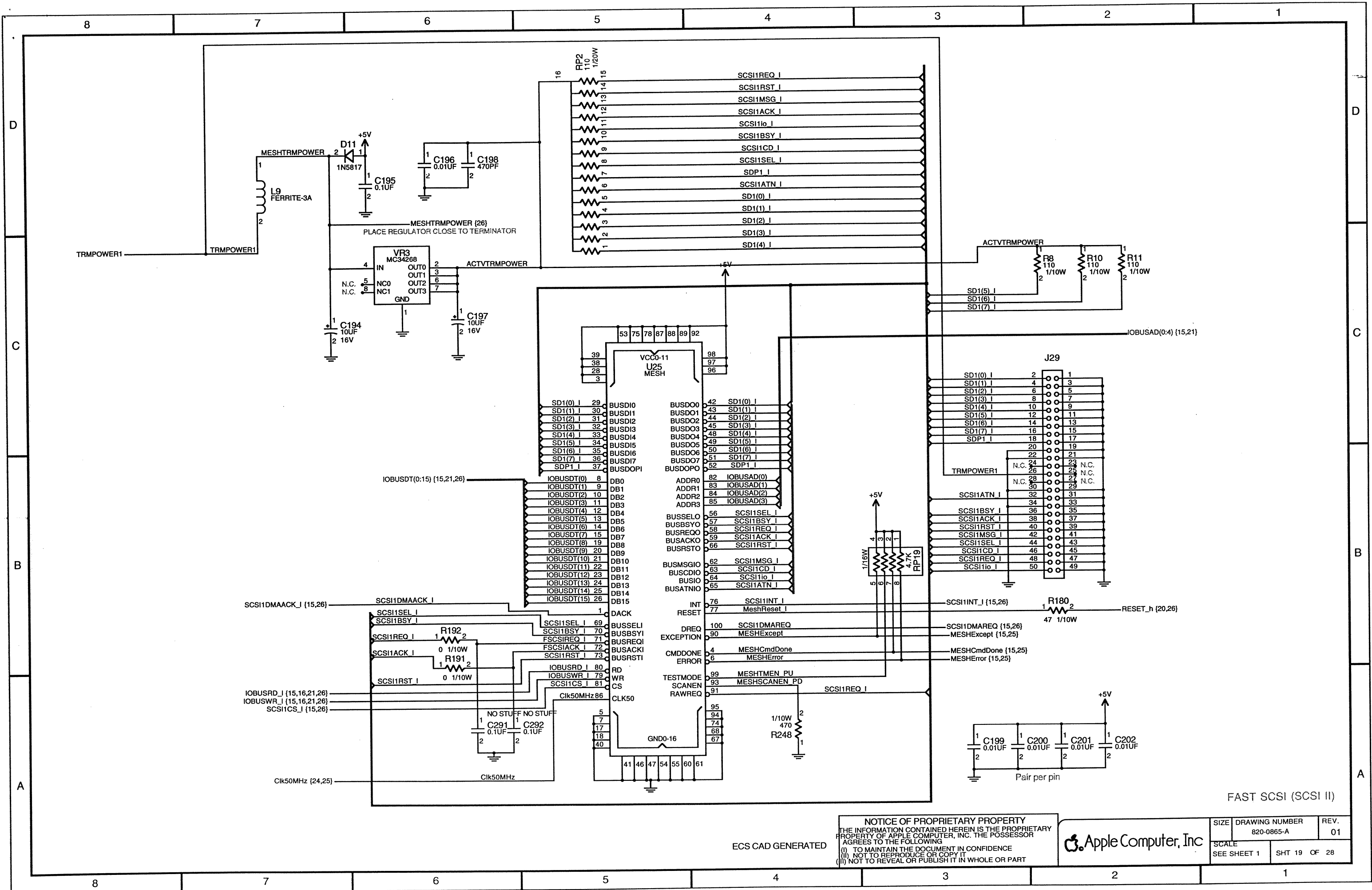


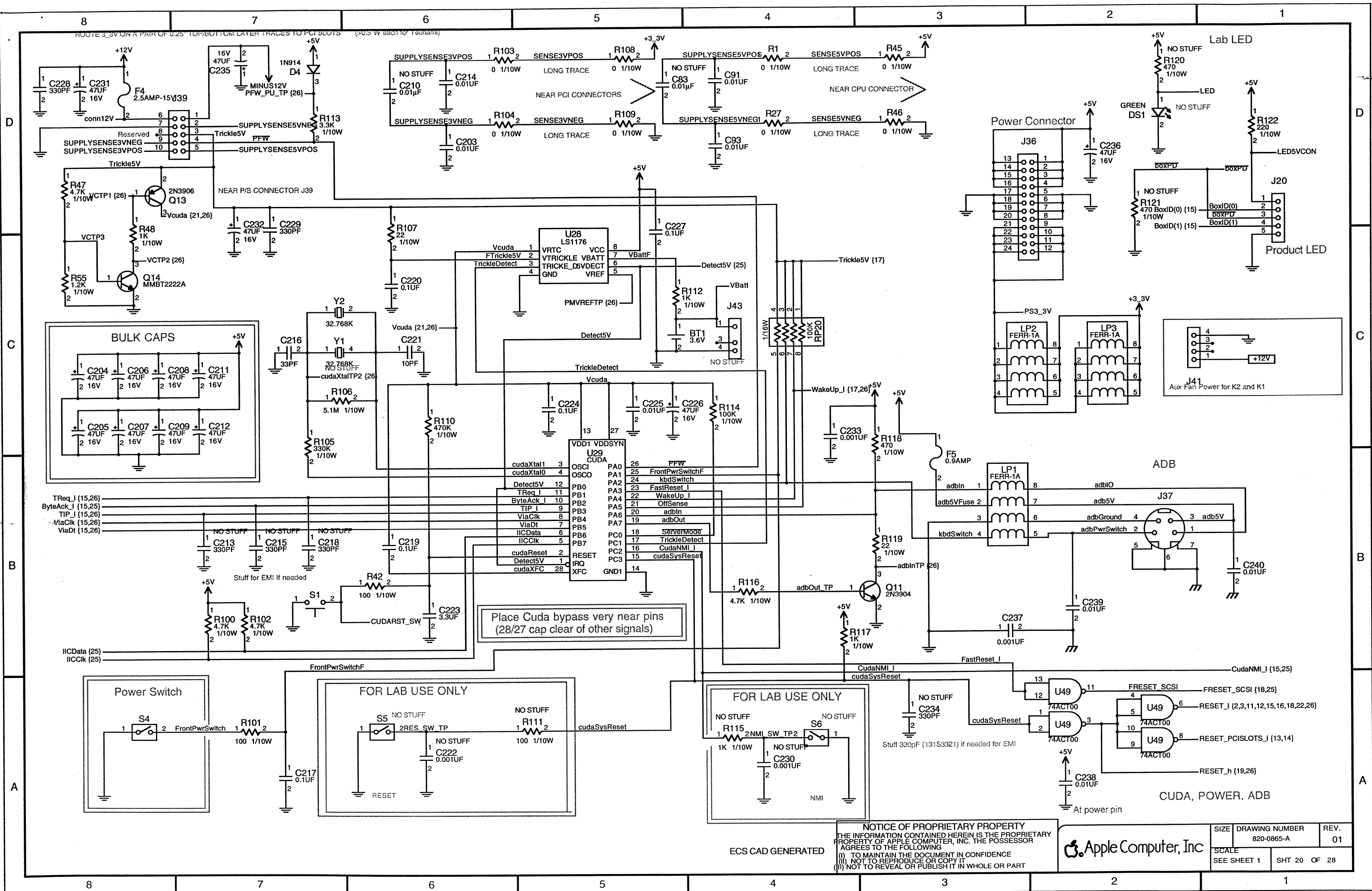
NOTE:
SCSI IS SLOW &
NARROW, DRIVEN BY CUBIO.

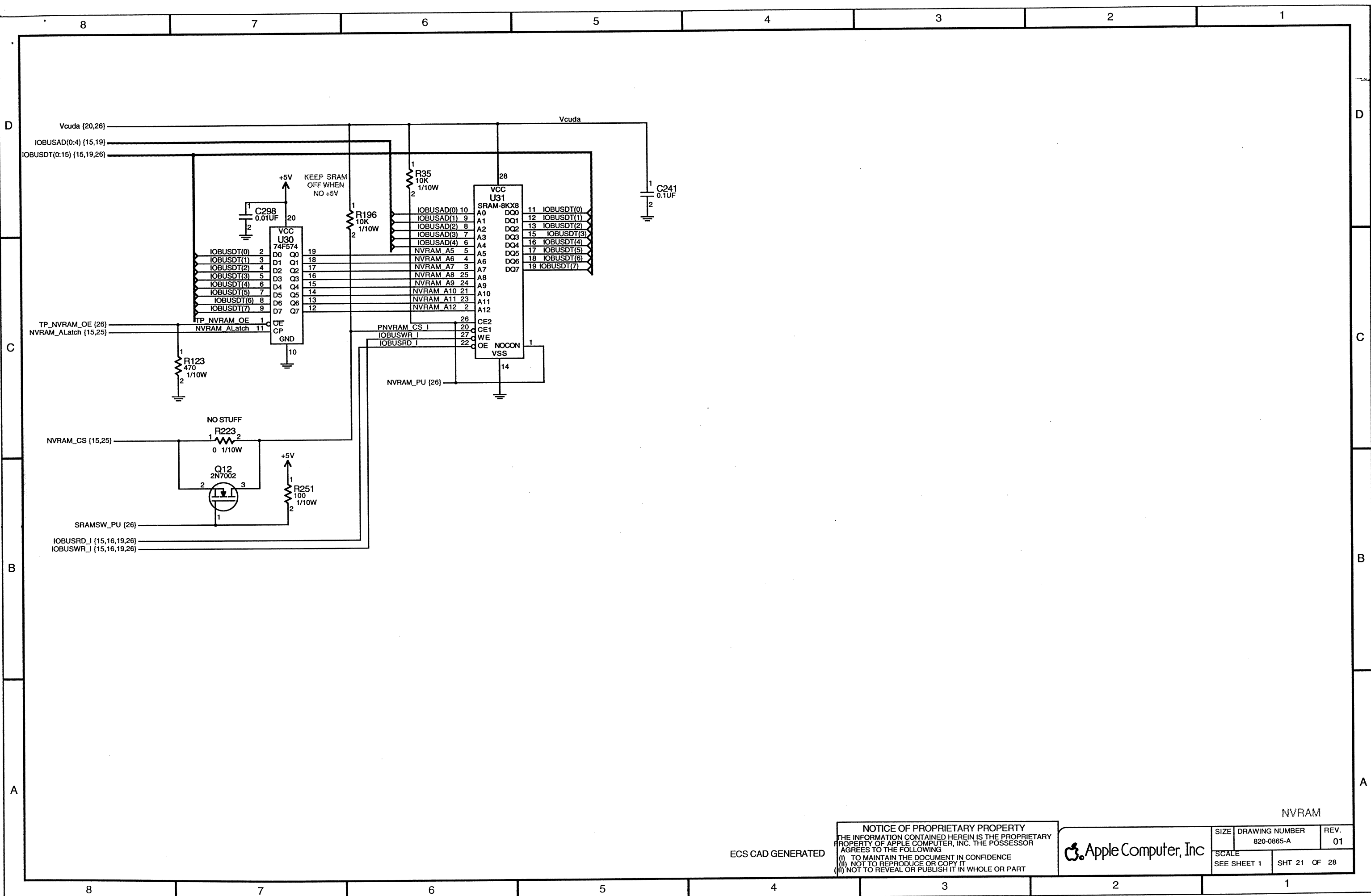
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SCALE	SHT 18 OF 28	
SEE SHEET 1		





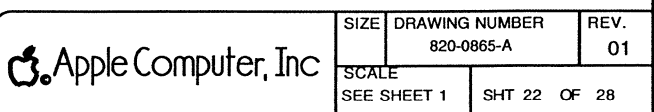


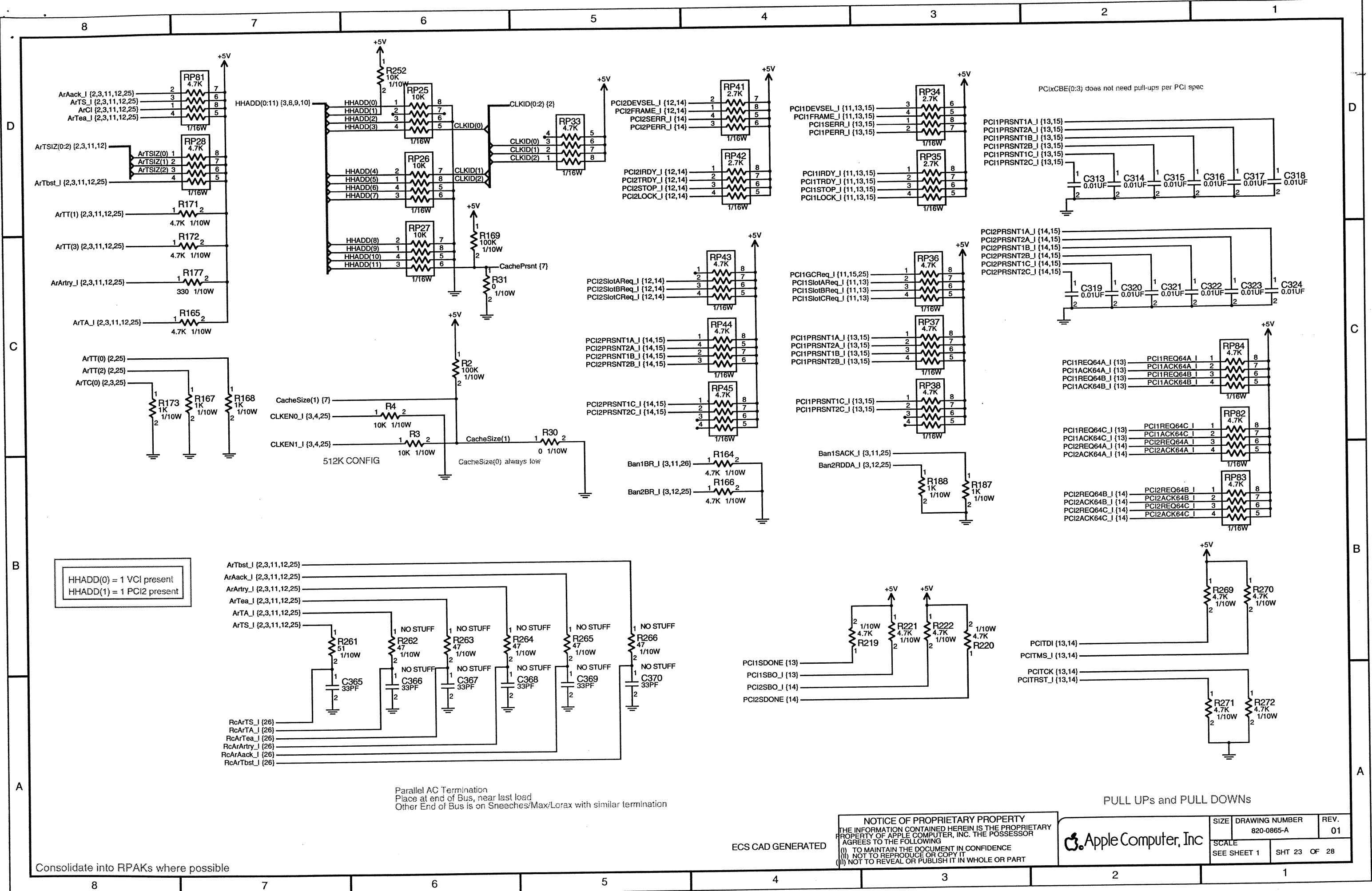
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SEE SHEET 1	SHT 21 OF 28	





Parallel AC Termination
Place at end of Bus, near last load
Other End of Bus is on Sneeches/Max/Lorax with similar termination

PULL UPS and PULL DOWNS

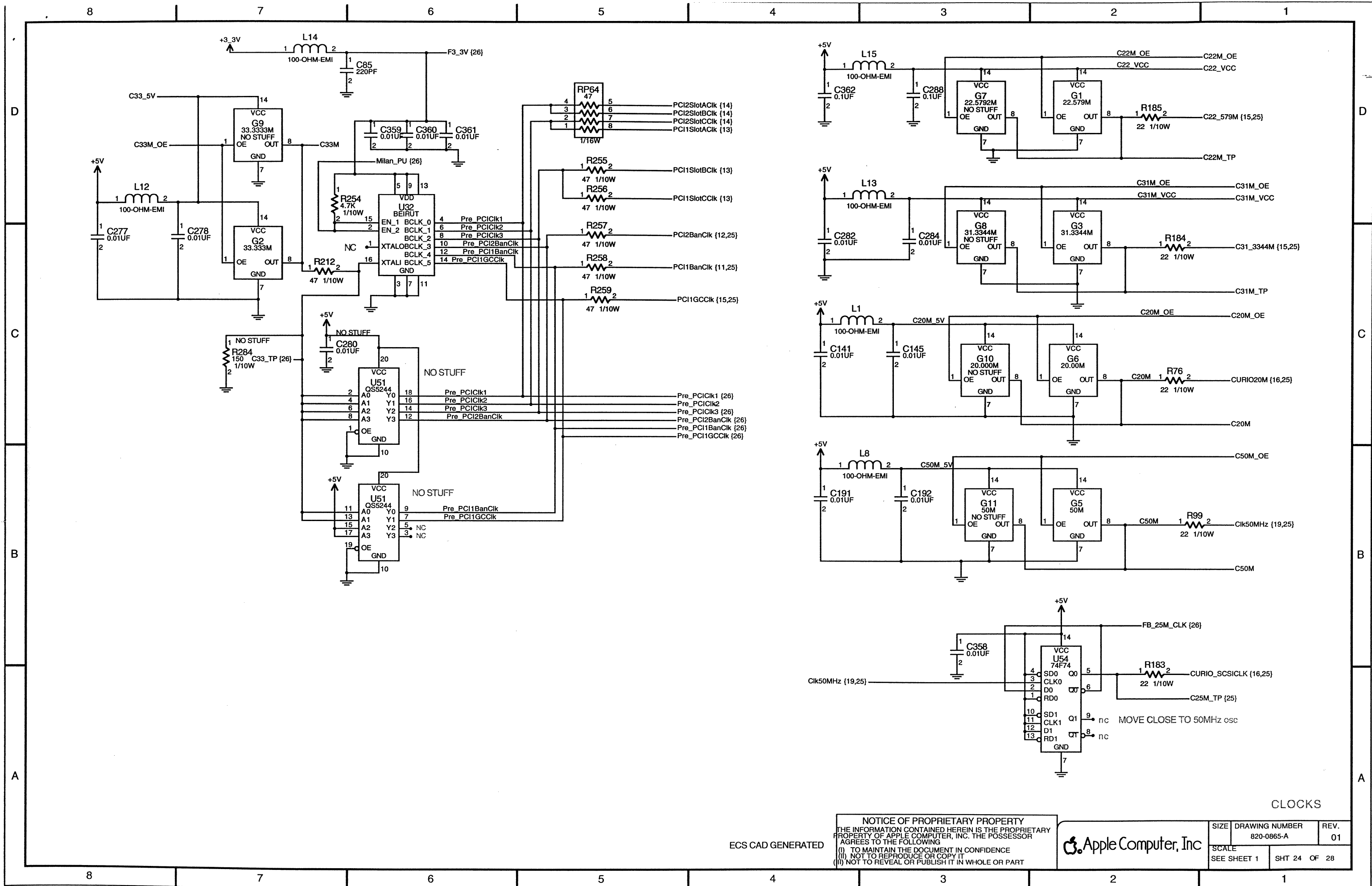
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SCALE	SHT 23 OF 28	
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Consolidate into RPAKs where possible

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SIZE	DRAWING NUMBER	REV.
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SCALE	SHT 24 OF 28	
SEE SHEET 1		

ACTVTRMPOWER {19} 1 TP9
ADDR_LATCH {3,5} 1 TP10
AGND 1 TP11
ARB2_PD1 {12} 1 TP12

ARB1_OE_PD {11} 1 TP14
GC_ARBCRITICAL {11,15} 1 TP15

ARB2_OE_PD {12} 1 TP17

AUICIN {16} 1 TP20
AUCIP {16} 1 TP21
AUDIN {16} 1 TP22
AUDIP {16} 1 TP23
AUDON {16} 1 TP24
AUDOP {16} 1 TP25
AVcc {22} 1 TP26

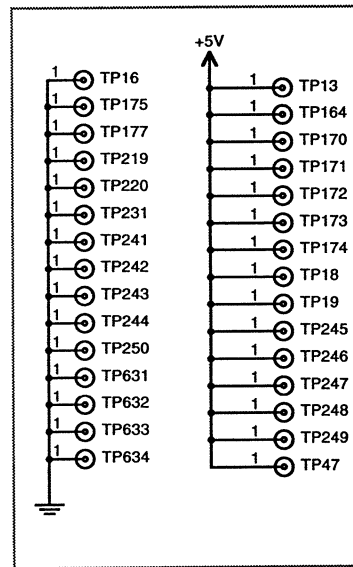
AWACS12V {22} 1 TP27
AWACSComOutA {22} 1 TP29
AWACSComOutC {22} 1 TP30
AWACSLOUTA {22} 1 TP31
AWACSROUTA {22} 1 TP32
AWACSROUTC {22} 1 TP33
AWACSSSEL0 {22} 1 TP34
AWACSSSEL1 {22} 1 TP35
AWACS_BITCLK {15,22} 1 TP36
AWACS_Com_B {22} 1 TP37
AWACS_Com_C {22} 1 TP38
AWACS_DGND {22} 1 TP39
AWACS_LINAA {22} 1 TP40
AWACS_Lin_B {22} 1 TP41
AWACS_Lin_C {22} 1 TP42
AWACS_REFBYP {22} 1 TP43
AWACS_RINAA {22} 1 TP44
AWACS_Rln_B {22} 1 TP45
AWACS_Rln_C {22} 1 TP46

AWACS_TEST {22} 1 TP48
AWACS_VREFBYP {22} 1 TP49
ActiveTermPwr {18} 1 TP50
ArAack_J {2,3,11,12,23} 1 TP51
ArAdr(0) {2,3,11,12} 1 TP52
ArAdr(1) {2,3,11,12} 1 TP53
ArAdr(10) {2,3,5,11,12} 1 TP54
ArAdr(11) {2,3,5,11,12} 1 TP55
ArAdr(12) {2,3,5,11,12} 1 TP56
ArAdr(13) {2,3,5,11,12} 1 TP57
ArAdr(14) {2,3,5,11,12} 1 TP58
ArAdr(15) {2,3,5,11,12} 1 TP59
ArAdr(16) {2,3,5,11,12} 1 TP60
ArAdr(17) {2,3,5,11,12} 1 TP61
ArAdr(18) {2,3,5,11,12} 1 TP62

ArAdr(19) {2,3,5,11,12} 1 TP63
ArAdr(2) {2,3,11,12} 1 TP64
ArAdr(20) {2,3,5,11,12} 1 TP65
ArAdr(21) {2,3,5,11,12} 1 TP66
ArAdr(22) {2,3,5,11,12} 1 TP67
ArAdr(23) {2,3,5,11,12} 1 TP68
ArAdr(24) {2,3,5,11,12} 1 TP69
ArAdr(25) {2,3,5,11,12} 1 TP70
ArAdr(26) {2,3,5,11,12} 1 TP71
ArAdr(27) {2,3,5,11,12} 1 TP72
ArAdr(28) {2,3,5,11,12} 1 TP73
ArAdr(29) {2,3,11,12} 1 TP74
ArAdr(3) {2,3,11,12} 1 TP75
ArAdr(30) {2,3,11,12} 1 TP76
ArAdr(31) {2,3,11,12} 1 TP77
ArAdr(4) {2,3,11,12} 1 TP78
ArAdr(5) {2,3,11,12} 1 TP79
ArAdr(6) {2,3,11,12} 1 TP80
ArAdr(7) {2,3,11,12} 1 TP81
ArAdr(8) {2,3,11,12} 1 TP82
ArAdr(9) {2,3,11,12} 1 TP83
ArArty_J {2,3,11,12,23} 1 TP84
ArCI {2,3,11,12,23} 1 TP85
ArDat(0) {2,3,4,7,11,12} 1 TP86
ArDat(1) {2,3,4,7,11,12} 1 TP87
ArDat(10) {2,4,7,11,12} 1 TP88
ArDat(11) {2,4,7,11,12} 1 TP89
ArDat(12) {2,4,7,11,12} 1 TP90
ArDat(13) {2,4,7,11,12} 1 TP91
ArDat(14) {2,4,7,11,12} 1 TP92
ArDat(15) {2,4,7,11,12} 1 TP93
ArDat(16) {2,4,7,11,12} 1 TP94
ArDat(17) {2,4,7,11,12} 1 TP95
ArDat(18) {2,4,7,11,12} 1 TP96
ArDat(19) {2,4,7,11,12} 1 TP97
ArDat(2) {2,3,4,7,11,12} 1 TP98
ArDat(20) {2,4,7,11,12} 1 TP99
ArDat(21) {2,4,7,11,12} 1 TP100
ArDat(22) {2,4,7,11,12} 1 TP101
ArDat(23) {2,4,7,11,12} 1 TP102
ArDat(24) {2,4,7,11,12} 1 TP103
ArDat(25) {2,4,7,11,12} 1 TP104
ArDat(26) {2,4,7,11,12} 1 TP105
ArDat(27) {2,4,7,11,12} 1 TP106
ArDat(28) {2,4,7,11,12} 1 TP107
ArDat(29) {2,4,7,11,12} 1 TP108
ArDat(3) {2,3,4,7,11,12} 1 TP109
ArDat(30) {2,4,7,11,12} 1 TP110
ArDat(31) {2,4,7,11,12} 1 TP111
ArDat(32) {2,4,7,11,12} 1 TP112
ArDat(33) {2,4,7,11,12} 1 TP113
ArDat(34) {2,4,7,11,12} 1 TP114
ArDat(35) {2,4,7,11,12} 1 TP115
ArDat(36) {2,4,7,11,12} 1 TP116
ArDat(37) {2,4,7,11,12} 1 TP117
ArDat(38) {2,4,7,11,12} 1 TP118
ArDat(39) {2,4,7,11,12} 1 TP119
ArDat(4) {2,3,4,7,11,12} 1 TP120
ArDat(40) {2,4,7,11,12} 1 TP121
ArDat(41) {2,4,7,11,12} 1 TP122
ArDat(42) {2,4,7,11,12} 1 TP123
ArDat(43) {2,4,7,11,12} 1 TP124

ArDat(44) {2,4,7,11,12} 1 TP125
ArDat(45) {2,4,7,11,12} 1 TP126
ArDat(46) {2,4,7,11,12} 1 TP127
ArDat(47) {2,4,7,11,12} 1 TP128
ArDat(48) {2,4,7,11,12} 1 TP129
ArDat(49) {2,4,7,11,12} 1 TP130
ArDat(5) {2,3,4,7,11,12} 1 TP131
ArDat(50) {2,4,7,11,12} 1 TP132
ArDat(51) {2,4,7,11,12} 1 TP133
ArDat(52) {2,4,7,11,12} 1 TP134
ArDat(53) {2,4,7,11,12} 1 TP135
ArDat(54) {2,4,7,11,12} 1 TP136
ArDat(55) {2,4,7,11,12} 1 TP137
ArDat(56) {2,4,7,11,12} 1 TP138
ArDat(57) {2,4,7,11,12} 1 TP139
ArDat(58) {2,4,7,11,12} 1 TP140
ArDat(59) {2,4,7,11,12} 1 TP141
ArDat(6) {2,3,4,7,11,12} 1 TP142
ArDat(60) {2,4,7,11,12} 1 TP143
ArDat(61) {2,4,7,11,12} 1 TP144
ArDat(62) {2,4,7,11,12} 1 TP145
ArDat(63) {2,4,7,11,12} 1 TP146
ArDat(7) {2,3,4,7,11,12} 1 TP147
ArDat(8) {2,4,7,11,12} 1 TP148
ArDat(9) {2,4,7,11,12} 1 TP149
ArTA_J {2,3,11,12,23} 1 TP150
ArTC(0) {2,3,23} 1 TP151
ArTSIZ(0) {2,3,11,12,23} 1 TP152
ArTSIZ(1) {2,3,11,12,23} 1 TP153
ArTSIZ(2) {2,3,11,12,23} 1 TP154
ArTS_J {2,3,11,12,23} 1 TP155
ArTT(0) {2,23} 1 TP156
ArTT(1) {2,3,11,12,23} 1 TP157
ArTT(2) {2,23} 1 TP158
ArTT(3) {2,3,11,12,23} 1 TP159
ArTbst_J {2,3,11,12,23} 1 TP160
ArTea_J {2,3,11,12,23} 1 TP161
AudiSense {22} 1 TP162
BUFRPD {5} 1 TP163
BUFRAS_E(1) {5} 1 TP165
BUFRAS_E(10) {5} 1 TP166
BUFRAS_E(11) {5} 1 TP167
BUFRAS_E(12) {5} 1 TP168
BUFRAS_E(2) {5} 1 TP169
BUFRAS_E(9) {5} 1 TP176
BUFRAS_O(10) {5} 1 TP178
BUFRAS_O(11) {5} 1 TP179
BUFRAS_O(12) {5} 1 TP180
BUFRAS_O(2) {5} 1 TP181
BUFRAS_O(3) {5} 1 TP182
BUFRAS_O(4) {5} 1 TP183
BUFRAS_O(5) {5} 1 TP184
BUFRAS_O(6) {5} 1 TP185
BUFRAS_O(7) {5} 1 TP186

1 ST1
NONPLATED



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TEST POINTS		REV.
SIZE	DRAWING NUMBER	01
820-0865-A		
SCALE	SHT 25 OF 28	
SEE SHEET 1		

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8		7		6		5		4		3		2		1					
REFERENCE DESIGNATOR LOCATIONS																			
BT1	20-C5	C90	11-C2	C203	20-D6	C309	11-B2		R8	19-C2	R100	20-B7	R191	19-B6	R286	12-B1	RP96	11-D8	
C1	2-D7	C91	20-D4	C204	20-C8	C312	15-D7	J1	2-A6	R9	5-B2	R101	20-A7	R192	19-B6	R287	12-C1	RP97	12-B8
C2	2-D6	C93	20-D4	C206	20-C8	C313	23-D2	J2	7-A7	R10	19-C2	R102	20-B7	R193	17-B7	R288	11-C1	RP98	12-B8
C3	2-D4	C94	12-D3	C207	20-C8	C315	23-D2	J4	10-A7	R12	6-B1	R104	20-D6	R194	5-A6	R289	2-D5	RP99	12-C8
C4	2-D4	C96	12-D3	C208	20-C8	C316	23-D1	J5	10-A5	R13	11-B7	R105	20-B7	R195	5-B8	R290	2-D6	RP100	12-C8
C5	3-D3	C98	12-D2	C209	20-C8	C317	23-D1	J6	10-A4	R14	7-B3	R106	20-C7	R196	21-C6	R291	15-D3	RP101	12-C8
C6	7-C6	C100	12-D2	C210	20-D6	C318	23-D1	J7	10-A2	R15	7-C1	R107	20-C6	R197	22-A2	R292	2-D5	RP102	12-C8
C7	3-D3	C102	12-D2	C211	20-C7	C319	23-C2	J8	8-A7	R16	7-C1	R108	20-D5	R198	22-A3	R293	2-D5	RP103	12-D8
C8	7-D4	C104	12-D2	C212	20-C7	C320	23-C2	J9	8-A5	R17	7-A1	R109	20-D5	R199	12-B3	R294	2-D5	RP104	12-D8
C9	3-D3	C106	12-D2	C213	20-B7	C321	23-C2	J10	8-A4	R18	7-B1	R110	20-C6	R200	22-B2	R295	12-B2	RP105	3-C8
C10	7-D2	C108	12-C2	C214	20-D6	C322	23-C2	J11	8-A2	R19	7-A5	R111	20-A6	R201	6-C8	R296	11-B7	RP106	3-B8
C11	3-D2	C110	15-D8	C215	20-B7	C323	23-C1	J12	9-A7	R20	7-D7	R112	20-C5	R202	6-C8	R297	11-B8		
C12	7-D2	C112	15-D8	C216	20-C7	C324	23-C1	J13	9-A5	R21	7-D7	R113	20-D7	R203	3-A7	R298	12-D7	S1	20-B7
C13	3-D2	C114	15-D8	C217	20-A7	C325	13-A5	J14	9-A4	R22	7-C8	R114	20-C4	R204	4-A7	R299	12-A3	S4	20-A8
C14	7-D4	C116	15-D8	C218	20-B7	C326	13-A5	J15	9-A2	R23	7-C3	R115	20-A4	R205	4-A7	R300	12-A4	S5	20-A6
C15	3-D2	C118	15-D7	C219	20-B6	C327	13-A5	J16	13-A7	R24	11-C2	R116	20-B4	R207	11-A2	R301	11-A4	S6	20-A4
C16	7-B2	C120	15-D7	C220	20-C6	C328	13-A5	J17	13-A5	R25	7-C3	R117	20-B4	R208	12-A2	R302	11-A3		
C17	3-D2	C122	15-D7	C221	20-C6	C329	13-A4	J18	13-A2	R26	7-A3	R118	20-B3	R209	12-B2	R303	11-A8	ST1	25-A5
C18	7-D5	C124	15-D7	C222	20-A6	C330	13-A4	J19	14-A7	R27	20-D4	R119	20-B3	R210	11-B2	R304	12-A7		
C19	3-D1	C126	15-D2	C223	20-B6	C331	14-A5	J20	20-C1	R28	11-B1	R120	20-D2	R212	24-C7	R305	3-B7	T1	16-C2
C20	7-B4	C127	15-D1	C224	20-C5	C332	14-A5	J21	14-A5	R29	12-B7	R121	20-D2	R213	15-D7	R306	3-B7	T2	16-C2
C21	4-D8	C128	16-A8	C225	20-C5	C333	14-A4	J22	14-A2	R30	23-C5	R122	20-D1	R214	15-A7	R307	22-B5	T3	16-A4
C22	7-B4	C129	16-A8	C226	20-C5	C334	14-A4	J23	16-B1	R31	23-C6	R123	21-C7	R215	15-B2	R308	3-A2		
C23	4-D8	C132	16-A7	C227	20-C5	C335	14-A4	J24	17-A5	R32	3-B2	R124	22-A8	R216	15-B2			U1	3-A6
C24	7-B4	C133	16-D6	C228	20-D8	C336	14-A4	J25	17-C8	R33	3-B3	R125	22-B8	R219	23-B4	RC1	2-B3	U2	7-A4
C25	4-D8	C134	16-D6	C229	20-C7	C337	14-A3	J26	18-A6	R34	3-B2	R126	22-B7	R220	23-B3	RC2	2-C3	U3	5-C4
C26	7-B4	C135	16-D5	C230	20-A4	C338	13-A4	J27	18-A2	R35	21-D6	R127	22-B7	R221	23-B3	RC3	2-B3	U4	4-A6
C27	4-D8	C136	16-D5	C231	20-D8	C339	13-A4	J28	18-C1	R36	16-A5	R128	22-C7	R222	23-B3	RC4	2-A3	U5	4-A2
C28	7-B6	C137	16-D5	C232	20-C7	C342	22-C1	J29	19-B2	R37	17-D5	R129	22-C7	R223	21-C7			U6	5-C7
C29	4-D7	C138	16-D5	C233	20-C4	C343	22-C1	J32	22-B8	R38	17-B5	R130	22-B7	R224	12-C3	RP1	5-D6	U7	5-C7
C30	7-D2	C141	24-C4	C234	20-A3	C344	16-D1	J33	22-C1	R39	11-C1	R131	22-C7	R225	16-D2	RP2	19-D5	U8	5-B7
C31	4-D7	C142	16-D4	C235	20-D7	C345	16-C1	J35	22-B1	R40	12-C3	R132	22-B7	R226	16-C2	RP3	3-C7	U9	5-C2
C32	7-D4	C143	16-D4	C236	20-D2	C346	16-C1	J36	20-C3	R41	12-C1	R133	22-C7	R227	3-B7	RP4	5-D6	U10	5-C2
C33	4-D7	C144	16-D4	C237	20-B3	C347	16-C1	J37	20-B2	R42	20-B6	R134	22-B7	R228	3-B7	RP5	5-D6	U11	5-B2
C34	7-D2	C145	24-C3	C238	20-A2	C348	16-D2	J39	20-D8	R43	12-B2	R135	22-C6	R229	3-A8	RP6	5-D5	U12	11-A6
C35	4-D7	C147	16-D4	C239	20-B2	C349	16-D2	J40	16-D1	R44	12-B1	R136	22-C6	R230	15-A2	RP7	5-C6	U13	11-C2
C36	7-A5	C148	16-D3	C240	20-B1	C350	16-C2	J41	20-C1	R45	20-D3	R137	22-C6	R231	16-B3	RP8	5-C5	U14	12-A6
C37	4-D4	C149	16-C3	C241	21-D5	C351	16-C2	J42	22-D8	R46	20-D3	R138	22-B6	R232	16-A3	RP9	15-C7	U15	12-C2
C38	7-D4	C150	16-C2	C242	22-B2	C352	22-D1	J43	20-C4	R47	20-D8	R139	22-B6	R233	15-A3	RP10	15-C7	U16	15-A6
C39	4-D4	C151	16-B2	C243	22-B2	C353	22-D7			R48	20-C8	R140	22-D5	R234	15-A1	RP11	15-C7	U17	15-C2
C40	7-D1	C152	16-B2	C244	22-B2	C354	22-D7			R49	13-C6	R141	22-A5	R235	15-A2	RP12	3-C2	U18	16-A6
C41	4-D4	C153	16-C1	C245	22-B1	C355	22-D6	L1	24-C4	R50	13-C4	R142	22-B5	R236	15-A2	RP13	3-D2	U19	16-A2
C42	7-B5	C154	16-D1	C246	22-B6	C356	22-D6	L2	16-B2	R51	13-C1	R143	22-B5	R237	17-C8	RP14	16-B8	U20	17-C7
C43	4-D4	C155	16-A1	C247	22-B6	C357	22-D6	L3	17-D3	R52	14-C6	R144	22-B5	R238	17-C8	RP15	16-C8	U21	17-A8
C44	7-B2	C156	16-B1	C248	22-C6	C358	24-B3	L4	17-B3	R53	14-C4	R145	22-B4	R239	17-B4	RP16	16-D7	U22	18-D5
C45	4-D4	C157	16-C1	C249	22-C6	C359	24-D6	L5	17-C2	R54	14-C1	R146	22-B4	R240	17-D4	RP17	18-B7	U23	18-C5
C46	7-B2	C158	17-C8	C250	22-C6	C360	24-D6	L6	18-C8	R55	20-C8	R147	22-B4	R241	16-B3	RP18	18-B7	U24	7-A2
C47	4-D3	C159	17-D7	C251	22-B6	C361	24-D4	L7	18-C8	R56	15-C7	R148	22-D4	R242	16-B3	RP19	19-B3	U25	19-A5
C48	7-B2	C160	17-B8	C252	22-B6	C362	24-D4	L8	24-B4	R57	15-C2	R149	22-B4	R243	16-C8	RP20	20-C4	U26	22-B4
C49	4-D3	C161	17-C7	C253	22-B6	C363	18-B2	L9	19-D7	R58	15-D3	R150	22-C4	R244	16-C8	RP21	3-C2	U27	22-A2
C50	7-B1	C162	17-A8	C254	22-D5	C364	18-A2	L10	22-A7	R59	15-D3	R151	22-C3	R245	16-B3	RP22	3-C3	U28	20-C5
C51	4-D3	C163	17-B7	C255	22-C5	C365	23-A7	L11	22-C4	R60	15-D2	R152	22-D3	R246	16-A7	RP23	3-C3	U29	20-B5