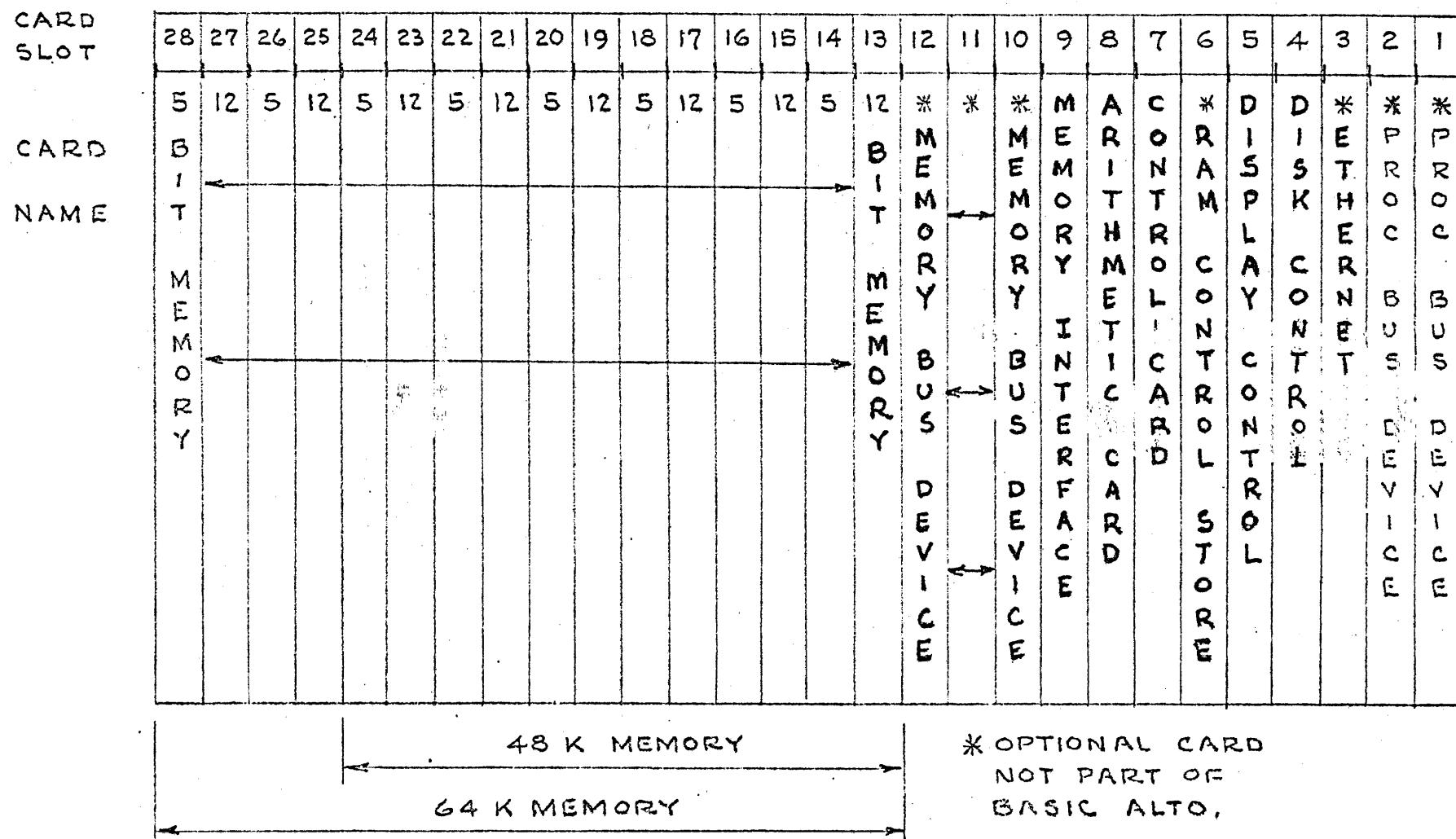


P.C. ALTO CARD ARRANGEMENT



* FILE CREATED 1-FEB-77 11:45:39
 * ALTOBPNL MAIN WIRELIST

\$\$ +:								0	\$
+15V:	1*7	2*7	3*7					0	1
-15V:	1*8	2*8	3*8					0	2
-5ACT:	7*102							0	3
-6ACT:	7*101							0	4
ALUFO:	7*40	8*40						0	5
ALUF1:	7*41	8*41						0	6
ALUF2:	7*42	8*42						0	7
ALUF3:	7*43	8*43						0	8
ALU[00]:	6*100	8*100	9*100					0	9
ALU[01]:	6*101	8*101	9*101					0	10
ALU[02]:	6*102	8*102	9*102					0	11
ALU[03]:	6*103	8*103	9*103					0	12
ALU[04]:	6*104	8*104	9*104					0	13
ALU[05]:	6*105	8*105	9*105					0	14
ALU[06]:	6*106	8*106	9*106					0	15
ALU[07]:	6*107	8*107	9*107					0	16
ALU[08]:	6*108	8*108	9*108					0	17
ALU[09]:	6*109	8*109	9*109					0	18
ALU[10]:	6*110	8*110	9*110					0	19
ALU[11]:	6*111	8*111	9*111					0	20
ALU[12]:	6*112	8*112	9*112					0	21
ALU[13]:	6*113	8*113	9*113					0	22
ALU[14]:	6*114	8*114	9*114					0	23
ALU[15]:	6*115	8*115	9*115					0	24
AUSYSCLK:	3*72	5*72	8*72					0	25
-AUSYSCLK:	3*12	4*75	5*8	7*70	8*8			0	26
-BLOCK:	4*110	5*110	7*110					0	27
BS0:	7*120	9*120						0	28
BS1:	7*121	9*121						0	29
BS2:	7*122	9*122						0	30
BSZ0:	7*44	8*44						0	31
BUS[00]:	1*80	2*80	3*80	4*80	5*80	6*80	7*80	0	32
		8*80	9*80						
BUS[01]:	1*81	2*81	3*81	4*81	5*81	6*81	7*81	0	33
		8*81	9*81						
BUS[02]:	1*82	2*82	3*82	4*82	5*82	6*82	7*82	0	34
		8*82	9*82						

BUS[03]:	1*83 8*83	2*83 9*83	3*83 9*83	4*83	5*83	6*83	7*83	0	35
BUS[04]:	1*84 8*84	2*84 9*84	3*84 9*84	4*84	5*84	6*84	7*84	0	36
BUS[05]:	1*85 8*85	2*85 9*85	3*85 9*85	4*85	5*85	6*85	7*85	0	37
BUS[06]:	1*86 8*86	2*86 9*86	3*86 9*86	4*86	5*86	6*86	7*86	0	38
BUS[07]:	1*87 8*87	2*87 9*87	3*87 9*87	4*87	5*87	6*87	7*87	0	39
BUS[08]:	1*88 8*88	2*88 9*88	3*88 9*88	4*88	5*88	6*88	7*88	0	40
BUS[09]:	1*89 8*89	2*89 9*89	3*89 9*89	4*89	5*89	6*89	7*89	0	41
BUS[10]:	1*90 8*90	2*90 9*90	3*90 9*90	4*90	5*90	6*90	7*90	0	42
BUS[11]:	1*91 8*91	2*91 9*91	3*91 9*91	4*91	5*91	6*91	7*91	0	43
BUS[12]:	1*92 8*92	2*92 9*92	3*92 9*92	4*92	5*92	6*92	7*92	0	44
BUS[13]:	1*93 8*93	2*93 9*93	3*93 9*93	4*93	5*93	6*93	7*93	0	45
BUS[14]:	1*94 8*94	2*94 9*94	3*94 9*94	4*94	5*94	6*94	7*94	0	46
BUS[15]:	1*95 8*95	2*95 9*95	3*95 9*95	4*95	5*95	6*95	7*95	0	47
CARRY:	8*73							0	48
-CE:	9*14 19*75 25*75	13*75 20*75 26*75	14*75 21*75 27*75	15*75 22*75 28*75	16*75 23*75	17*75 24*75	18*75	0	49
-CONST<:	6*97	7*97	9*97					0	50
-CS0:	9*15	13*76	14*76	15*76	16*76			0	51
-CS1:	9*75	17*76	18*76	19*76	20*76			0	52
-CS2:	9*76	21*76	22*76	23*76	24*76			0	53
-CS3:	9*77	25*76	26*76	27*76	28*76			0	54
CSYSCLK:	5*70							0	55
-CURTAC:	5*114	7*114						0	56
DBARC:	1*63	2*63	3*63	5*63	6*63	7*63		0	57
/70 _{NS}	DBSYSCLK:	5*62	6*62	7*62				0	58
1.2 _{μS}	DCLK:	5*10						0	59
DDR<:	5*6	7*6						0	60
-DHTAC:	5*23	7*23						0	61
DNS:	7*75	8*75						0	62
-DS0:	9*19 25*79	13*79 26*79	14*79 27*79	17*79 28*79	18*79 29*79	21*79 30*79	22*79 31*79	0	63
-DS1:	9*18	15*79 27*79	16*79 28*79	19*79	20*79	23*79	24*79	0	64
-DVTAC:	5*22	7*22						0	65

-DWTAC:	5*24	7*24					0	66
EMACT:	3*99	6*99	7*99	8*99			0	67
-ETAC:	3*100	7*100					0	68
F1[0]:	1*30	2*30	3*30	4*30	7*30		0	69
F1[1]:	1*31	2*31	3*31	4*31	7*31		0	70
F1[2]:	1*32	2*32	3*32	4*32	7*32		0	71
F1[3]:	1*33	2*33	3*33	4*33	7*33		0	72
-F2EQ10:	5*51	7*51					0	73
-F2EQ11:	5*116	7*116	8*116				0	74
F2[0]:	1*36	2*36	3*36	4*36	7*36	8*36	0	75
F2[1]:	1*37	2*37	3*37	4*37	7*37	8*37	0	76
F2[2]:	1*38	2*38	3*38	4*38	7*38	8*38	0	77
F2[3]:	1*39	2*39	3*39	4*39	7*39		0	78
IBUSY:	3*113						0	79
-IR[00]:	7*10	8*10					0	80
-IR[01]:	7*11	7*12	8*11	8*12			0	81
-IR[03]:	7*13	8*13					0	82
-IR[04]:	7*14	8*14					0	83
-IR[05]:	7*15	8*15					0	84
-IR[06]:	7*16	8*16					0	85
-IR[07]:	7*78	8*78					0	86
-IR[08]:	7*18	8*18					0	87
-IR[09]:	7*19	8*19					0	88
-IR[10]:	8*20						0	89
-IR[11]:	8*21						0	90
-IR[12]:	8*22	8*23					0	91
-IR[14]:	8*24						0	92
-IR[15]:	8*25						0	93
IR-:	7*71	8*71					0	94
-KSTAC:	4*28	7*28					0	95
KSYSCLK:	4*7	5*7					0	96
-KWDTAC:	4*25	7*25					0	97
LALUC0:	7*49	8*49					0	98
-LCY8:	7*48	8*48					0	99
LOADL:	7*7	8*7					0	100
LOADR:	7*68	8*68					0	101
-LOADT:	7*69	8*69					0	102
-LSH1:	7*46	8*46					0	103
MAR[05]:	9*40	13*101	14*101	15*101	16*101	17*101	18*101	
		19*101	20*101	21*101	22*101	23*101	24*101	
		25*101	26*101	27*101	28*101			0 104

:<OVERTON>ALTOBPNL.WIRELIST;4 TUE 1-FEB-77 11:45AM

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MAR[06]:	9*39	13*100 19*100 25*100	14*100 20*100 26*100	15*100 21*100 27*100	16*100 22*100 28*100	17*100 23*100 26*100	18*100 24*100 0	105
MAR[07]:	9*41	10*41 16*102 22*102 28*102	11*41 17*102 23*102	12*41 18*102 24*102	13*102 19*102 25*102	14*102 20*102 26*102	15*102 21*102 27*102	0
MAR[08]:	9*42	10*42 16*103 22*103 28*103	11*42 17*103 23*103	12*42 18*103 24*103	13*103 19*103 25*103	14*103 20*103 26*103	15*103 21*103 27*103	0
MAR[09]:	9*50	10*50 16*111 22*111 28*111	11*50 17*111 23*111	12*50 18*111 24*111	13*111 19*111 25*111	14*111 20*111 26*111	15*111 21*111 27*111	0
MAR[10]:	9*52	10*52 16*113 22*113 28*113	11*52 17*113 23*113	12*52 18*113 24*113	13*113 19*113 25*113	14*113 20*113 26*113	15*113 21*113 27*113	0
MAR[11]:	9*44	10*44 16*105 22*105 28*105	11*44 17*105 23*105	12*44 18*105 24*105	13*105 19*105 25*105	14*105 20*105 26*105	15*105 21*105 27*105	0
MAR[12]:	9*51	10*51 16*112 22*112 28*112	11*51 17*112 23*112	12*51 18*112 24*112	13*112 19*112 25*112	14*112 20*112 26*112	15*112 21*112 27*112	0
MAR[13]:	9*46	10*46 16*106 22*106 28*106	11*46 17*106 23*106	12*46 18*106 24*106	13*106 19*106 25*106	14*106 20*106 26*106	15*106 21*106 27*106	0
MAR[14]:	9*43	10*43 16*104 22*104 28*104	11*43 17*104 23*104	12*43 18*104 24*104	13*104 19*104 25*104	14*104 20*104 26*104	15*104 21*104 27*104	0
MAR-:	7*72	9*72						114
-MD[00]:	9*20	10*20 15*85 21*85 27*85	11*20 17*81 23*81	12*20 17*85 23*85	13*81 19*81 25*81	13*85 19*85 25*85	15*81 21*81 27*81	0
-MD[01]:	9*21	10*21 15*84 21*84 27*84	11*21 17*82 23*82	12*21 17*84 23*84	13*82 19*82 25*82	13*84 19*84 25*84	15*82 21*82 27*82	0
-MD[02]:	9*22	10*22 15*86 21*86 27*86	11*22 17*80 23*80	12*22 17*86 23*86	13*80 19*80 25*80	13*86 19*86 25*86	15*80 21*80 27*80	0
-MD[03]:	9*23	10*23 15*87 21*87 27*87	11*23 17*83 23*83	12*23 17*87 23*87	13*83 19*83 25*83	13*87 19*87 25*87	15*83 21*83 27*83	0
-MD[04]:	9*24	10*24 15*90 21*90 27*90	11*24 17*88 23*88	12*24 17*90 23*90	13*88 19*88 25*88	13*90 19*90 25*90	15*88 21*88 27*88	0
-MD[05]:	9*25	10*25 15*91 21*91 27*91	11*25 17*89 23*89	12*25 17*91 23*91	13*89 19*89 25*89	13*91 19*91 25*91	15*89 21*89 27*89	0

-MD[06]:	9*26	10*26	11*26	12*26	13*93	13*94	15*93		
		15*94	17*93	17*94	19*93	19*94	21*93		
		21*94	23*93	23*94	25*93	25*94	27*93		
		27*94						0	121
-MD[07]:	9*28	10*28	11*28	12*28	13*92	13*95	15*92		
		15*95	17*92	17*95	19*92	19*95	21*92		
		21*95	23*92	23*95	25*92	25*95	27*92		
		27*95						0	122
-MD[08]:	9*29	10*29	11*29	12*29	13*96	13*107	15*96		
		15*107	17*96	17*107	19*96	19*107	21*96		
		21*107	23*96	23*107	25*96	25*107	27*96		
		27*107						0	123
-MD[09]:	9*30	10*30	11*30	12*30	13*97	13*108	15*97		
		15*108	17*97	17*108	19*97	19*108	21*97		
		21*108	23*97	23*108	25*97	25*108	27*97		
		27*108						0	124
-MD[10]:	9*31	10*31	11*31	12*31	13*98	13*109	15*98		
		15*109	17*98	17*109	19*98	19*109	21*98		
		21*109	23*98	23*109	25*98	25*109	27*98		
		27*109						0	125
-MD[11]:	9*32	10*32	11*32	12*32	13*99	13*110	15*99		
		15*110	17*99	17*110	19*99	19*110	21*99		
		21*110	23*99	23*110	25*99	25*110	27*99		
		27*110						0	126
-MD[12]:	9*33	10*33	11*33	12*33	14*92	14*95	16*92		
		16*95	18*92	18*95	20*92	20*95	22*92		
		22*95	24*92	24*95	26*92	26*95	28*92		
		28*95						0	127
-MD[13]:	9*34	10*34	11*34	12*34	14*96	14*107	16*96		
		16*107	18*96	18*107	20*96	20*107	22*96		
		22*107	24*96	24*107	26*96	26*107	28*96		
		28*107						0	128
-MD[14]:	9*36	10*36	11*36	12*36	14*97	14*108	16*97		
		16*108	18*97	18*108	20*97	20*108	22*97		
		22*108	24*97	24*108	26*97	26*108	28*97		
		28*108						0	129
-MD[15]:	9*37	10*37	11*37	12*37	14*98	14*109	16*98		
		16*109	18*98	18*109	20*98	20*109	22*98		
		22*109	24*98	24*109	26*98	26*109	28*98		
		28*109						0	130
MIARC:	5*71	9*71	10*71	11*71	12*71			0	131
MISYSCLK:	5*69	9*69	10*69	11*69	12*69			0	132
-NEXT[05]:	1*105	2*105	4*105	7*105				0	133
-NEXT[06]:	1*106	2*106	3*106	4*106	7*106			0	134
-NEXT[07]:	1*107	2*107	3*107	4*107	7*107			0	135
-NEXT[08]:	1*108	2*108	4*108	7*108				0	136
-NEXT[09]:	1*109	2*109	4*109	5*109	7*109			0	137
OBUSY:	3*114							0	138
OKTORUN:	1*1	2*1	3*1	4*1	6*1			0	139
-PARTAC:	7*61	9*61						0	140
-PC:	9*13	13*74	14*74	15*74	16*74	17*74	18*74		
		19*74	20*74	21*74	22*74	23*74	24*74		
		25*74	26*74	27*74	28*74			0	141
-READMOUS:	7*117	9*117						0	142
READPAR:	9*38	14*99	16*99	18*99	20*99	22*99	24*99	0	143

RESET:	1*2	2*2	3*2	4*2	6*2	7*2	9*2	0	144
RS0:	9*16	13*77	14*77	15*77	16*77	17*77	18*77		
		19*77	20*77	21*77	22*77	23*77	24*77	0	145
		25*77	26*77	27*77	28*77				
RS1:	9*12	13*73	14*73	15*73	16*73	17*73	18*73		
		19*73	20*73	21*73	22*73	23*73	24*73	0	146
		25*73	26*73	27*73	28*73				
RS2:	9*10	13*71	14*71	15*71	16*71	17*71	18*71		
		19*71	20*71	21*71	22*71	23*71	24*71	0	147
		25*71	26*71	27*71	28*71				
RS3:	9*70	13*70	14*70	15*70	16*70	17*70	18*70		
		19*70	20*70	21*70	22*70	23*70	24*70	0	148
		25*70	26*70	27*70	28*70				
RS4:	9*8	13*69	14*69	15*69	16*69	17*69	18*69		
		19*69	20*69	21*69	22*69	23*69	24*69	0	149
		25*69	26*69	27*69	28*69				
RS5:	9*11	13*72	14*72	15*72	16*72	17*72	18*72		
		19*72	20*72	21*72	22*72	23*72	24*72	0	150
		25*72	26*72	27*72	28*72				
RS6:	9*7	13*68	14*68	15*68	16*68	17*68	18*68		
		19*68	20*68	21*68	22*68	23*68	24*68	0	151
		25*68	26*68	27*68	28*68				
RS7:	9*6	13*67	14*67	15*67	16*67	17*67	18*67		
		19*67	20*67	21*67	22*67	23*67	24*67	0	152
		25*67	26*67	27*67	28*67				
RSEL0:	7*54	8*54	9*54					0	153
RSEL1:	7*55	8*55	9*55					0	154
RSEL2:	7*56	8*56	9*56					0	155
RSEL3:	7*57	8*57	9*57					0	156
RSEL4:	7*59	8*59	9*59					0	157
-RSH1:	7*47	8*47						0	158
-RSN:	3*42							0	159
SELR37:	7*74	9*74						0	160
SHZERO:	7*26	8*26						0	161
SH[00]:	7*50	8*50						0	162
-SIO:	3*41							0	163
SKIP:	8*74							0	164
SN[00]:	3*18							0	165
SN[01]:	3*19							0	166
SN[02]:	3*20							0	167
SN[03]:	3*21							0	168
SN[04]:	3*22							0	169
SN[05]:	3*23							0	170
SN[06]:	3*24							0	171
SN[07]:	3*25							0	172
-SRESET:	1*62	2*62	3*62	4*62	7*1	9*62		0	173
-STOP:	5*1	9*1						0	174
STOPCLK:	5*20	7*20						0	175

-STORE:	7*73	9*73						0	176
-SWAKMRT:	3*68	5*68	9*68					0	177
-W0:	9*79	13*78	14*78	17*78	18*78	21*78	22*78	0	178
-W1:	9*78	15*78	16*78	19*78	20*78	23*78	24*78	0	179
-WAKE5:	7*60							0	180
-WAKE6:	7*104							0	181
WAKECURT:	5*115	7*115						0	182
-WAKEDHT:	5*77	7*77						0	183
-WAKEDVT:	5*76	7*76						0	184
-WAKEDWT:	5*21	7*21						0	185
-WAKEET:	3*103	7*103						0	186
-WAKEKST:	4*8	7*8						0	187
-WAKEKWDT:	4*79	7*79						0	188
-WAKEMRT:	7*67	9*67						0	189
-WAKEPART:	7*118	9*118						0	190
WRITEPAR:	9*49	14*110	16*110	18*110	20*110	22*110	24*110	0	191
		26*110	28*110						
XIOREF:	9*48	10*48	11*48	12*48				0	192
XMAR[15]:	9*47	10*47	11*47	12*47				0	193
XMT2:	9*98	10*98	11*98	12*98				0	194
-ZEROBUS:	7*34	8*34						0	195
-DISP:	7*98	8*98						0	196
-KDATAL:	3*111	4*111	7*111					0	197
-KSTAT:	4*112	7*112						0	198
-MD:	7*96	9*96						0	199

* This card uses 1058 wires

↑L

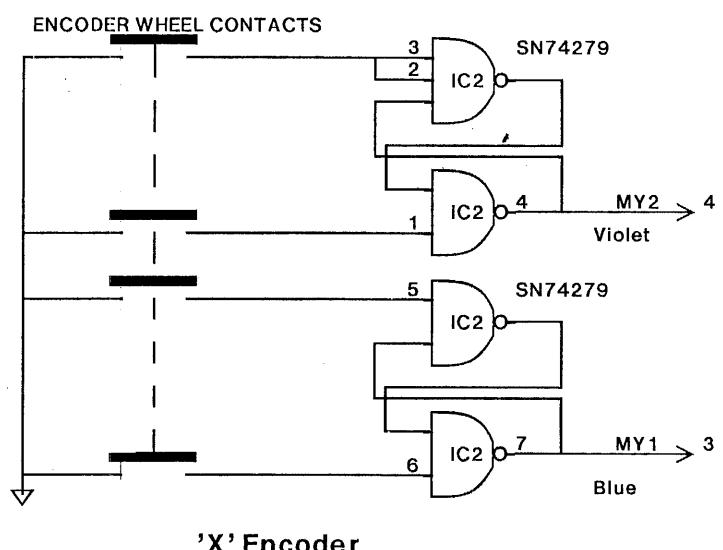
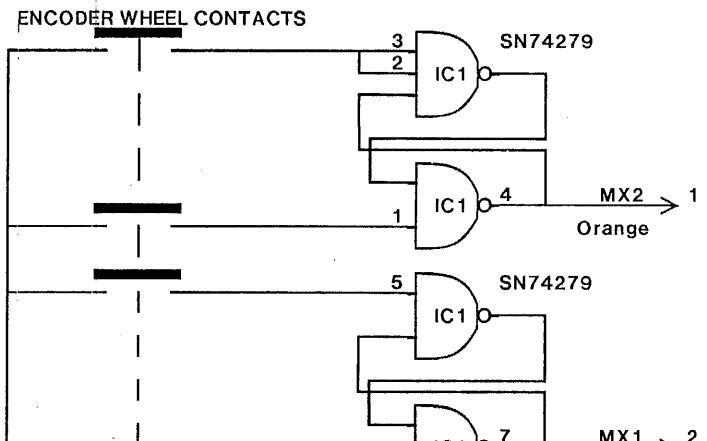
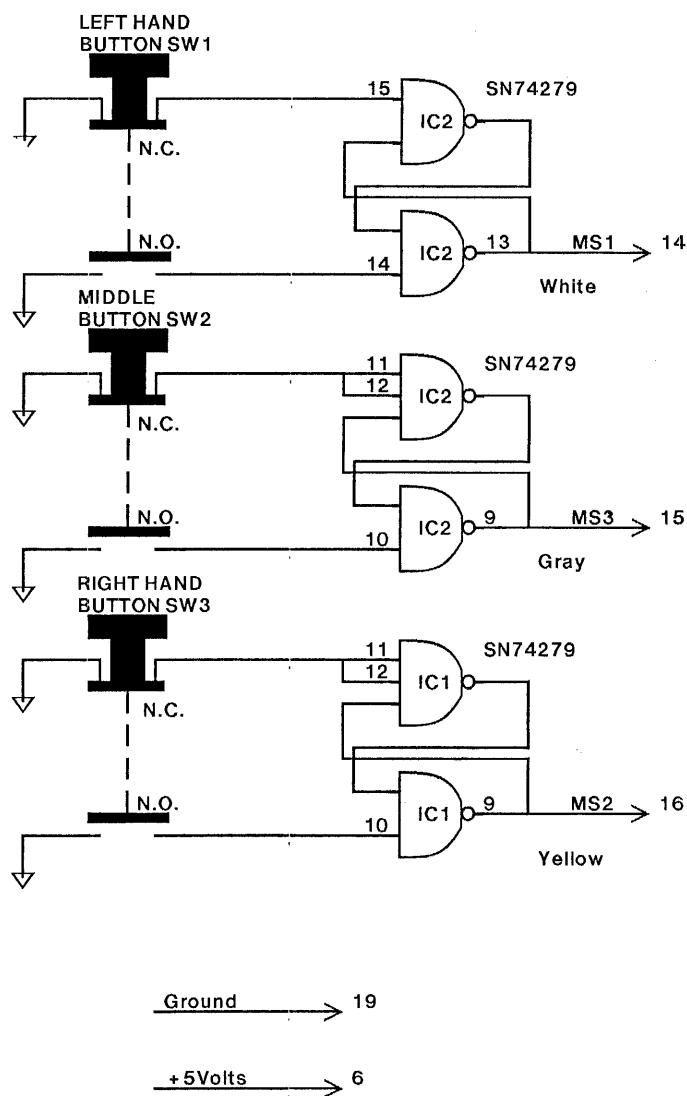
1*1	OKTORUN	1*2	RESET	1*7	+15V	1*8	-15V
1*30	F1[0]	1*31	F1[1]	1*32	F1[2]	1*33	F1[3]
1*36	F2[0]	1*37	F2[1]	1*38	F2[2]	1*39	F2[3]
1*62	-SRESET	1*63	DBARC	1*80	BUS[00]	1*81	BUS[01]
1*82	BUS[02]	1*83	BUS[03]	1*84	BUS[04]	1*85	BUS[05]
1*86	BUS[06]	1*87	BUS[07]	1*88	BUS[08]	1*89	BUS[09]
1*90	BUS[10]	1*91	BUS[11]	1*92	BUS[12]	1*93	BUS[13]
1*94	BUS[14]	1*95	BUS[15]	1*105	-NEXT[05]	1*106	-NEXT[06]
1*107	-NEXT[07]	1*108	-NEXT[08]	1*109	-NEXT[09]	2*1	OKTORUN
2*2	RESET	2*7	+15V	2*8	-15V	2*30	F1[0]
2*31	F1[1]	2*32	F1[2]	2*33	F1[3]	2*36	F2[0]
2*37	F2[1]	2*38	F2[2]	2*39	F2[3]	2*62	-SRESET
2*63	DBARC	2*80	BUS[00]	2*81	BUS[01]	2*82	BUS[02]
2*83	BUS[03]	2*84	BUS[04]	2*85	BUS[05]	2*86	BUS[06]
2*87	BUS[07]	2*88	BUS[08]	2*89	BUS[09]	2*90	BUS[10]
2*91	BUS[11]	2*92	BUS[12]	2*93	BUS[13]	2*94	BUS[14]
2*95	BUS[15]	2*105	-NEXT[05]	2*106	-NEXT[06]	2*107	-NEXT[07]
2*108	-NEXT[08]	2*109	-NEXT[09]	3*1	OKTORUN	3*2	RESET
3*7	+15V	3*8	-15V	3*12	-AUSYSCLK	3*18	SN[00]
3*19	SN[01]	3*20	SN[02]	3*21	SN[03]	3*22	SN[04]
3*23	SN[05]	3*24	SN[06]	3*25	SN[07]	3*30	F1[0]
3*31	F1[1]	3*32	F1[2]	3*33	F1[3]	3*36	F2[0]
3*37	F2[1]	3*38	F2[2]	3*39	F2[3]	3*41	-SIO
3*42	-RSN	3*62	-SRESET	3*63	DBARC	3*68	-SWAKMRT
3*72	AUSYSCLK	3*80	BUS[00]	3*81	BUS[01]	3*82	BUS[02]
3*83	BUS[03]	3*84	BUS[04]	3*85	BUS[05]	3*86	BUS[06]
3*87	BUS[07]	3*88	BUS[08]	3*89	BUS[09]	3*90	BUS[10]
3*91	BUS[11]	3*92	BUS[12]	3*93	BUS[13]	3*94	BUS[14]
3*95	BUS[15]	3*99	EMACT	3*100	-ETAC	3*103	-WAKEET
3*106	-NEXT[06]	3*107	-NEXT[07]	3*111	-KDATAL	3*113	IBUSY
3*114	OBUSY	4*1	OKTORUN	4*2	RESET	4*7	KSYSCLK
4*8	-WAKEKST	4*25	-KWDTAC	4*28	-KSTAC	4*30	F1[0]
4*31	F1[1]	4*32	F1[2]	4*33	F1[3]	4*36	F2[0]
4*37	F2[1]	4*38	F2[2]	4*39	F2[3]	4*62	-SRESET
4*75	-AUSYSCLK	4*79	-WAKEWDT	4*80	BUS[00]	4*81	BUS[01]
4*82	BUS[02]	4*83	BUS[03]	4*84	BUS[04]	4*85	BUS[05]
4*86	BUS[06]	4*87	BUS[07]	4*88	BUS[08]	4*89	BUS[09]
4*90	BUS[10]	4*91	BUS[11]	4*92	BUS[12]	4*93	BUS[13]
4*94	BUS[14]	4*95	BUS[15]	4*105	-NEXT[05]	4*106	-NEXT[06]
4*107	-NEXT[07]	4*108	-NEXT[08]	4*109	-NEXT[09]	4*110	-BLOCK
4*111	-KDATAL	4*112	-KSTAT	5*1	-STOP	5*6	DDR+
5*7	KSYSCLK	5*8	-AUSYSCLK	5*10	DCLK	5*20	STOPCLK
5*21	-WAKEDWT	5*22	-DVTAC	5*23	-DHTAC	5*24	-DWTAC
5*51	-F2EQ10	5*62	DBSYSCLK	5*63	DBARC	5*68	-SWAKMRT
5*69	MISYSCLK	5*70	CSYSCLK	5*71	MIARC	5*72	AUSYSCLK
5*76	-WAKEDVT	5*77	-WAKEDHT	5*80	BUS[00]	5*81	BUS[01]
5*82	BUS[02]	5*83	BUS[03]	5*84	BUS[04]	5*85	BUS[05]
5*86	BUS[06]	5*87	BUS[07]	5*88	BUS[08]	5*89	BUS[09]
5*90	BUS[10]	5*91	BUS[11]	5*92	BUS[12]	5*93	BUS[13]
5*94	BUS[14]	5*95	BUS[15]	5*109	-NEXT[09]	5*110	-BLOCK
5*114	-CURTAC	5*115	WAKECURT	5*116	-F2EQ11	6*1	OKTORUN
6*2	RESET	6*62	DBSYSCLK	6*63	DBARC	6*80	BUS[00]
6*81	BUS[01]	6*82	BUS[02]	6*83	BUS[03]	6*84	BUS[04]
6*85	BUS[05]	6*86	BUS[06]	6*87	BUS[07]	6*88	BUS[08]
6*89	BUS[09]	6*90	BUS[10]	6*91	BUS[11]	6*92	BUS[12]
6*93	BUS[13]	6*94	BUS[14]	6*95	BUS[15]	6*97	-CONST-
6*99	EMACT	6*100	ALU[00]	6*101	ALU[01]	6*102	ALU[02]
6*103	ALU[03]	6*104	ALU[04]	6*105	ALU[05]	6*106	ALU[06]
6*107	ALU[07]	6*108	ALU[08]	6*109	ALU[09]	6*110	ALU[10]
6*111	ALU[11]	6*112	ALU[12]	6*113	ALU[13]	6*114	ALU[14]
6*115	ALU[15]	7*1	-SRESET	7*2	RESET	7*6	DDR+
7*7	LOADL	7*8	-WAKEKST	7*10	-IR[00]	7*11	-IR[01]
7*12	-IR[01]	7*13	-IR[03]	7*14	-IR[04]	7*15	-IR[05]
7*16	-IR[06]	7*18	-IR[08]	7*19	-IR[09]	7*20	STOPCLK
7*21	-WAKEDWT	7*22	-DVTAC	7*23	-DHTAC	7*24	-DWTAC
7*25	-KWDTAC	7*26	SHZERO	7*28	-KSTAC	7*30	F1[0]
7*31	F1[1]	7*32	F1[2]	7*33	F1[3]	7*34	-ZEROBUS
7*36	F2[0]	7*37	F2[1]	7*38	F2[2]	7*39	F2[3]
7*40	ALUFO	7*41	ALUF1	7*42	ALUF2	7*43	ALUF3
7*44	BSZO	7*46	-LSH1	7*47	-RSH1	7*48	-LCY8
7*49	LALUCO	7*50	SH[00]	7*51	-F2EQ10	7*54	RSEL0
7*55	RSEL1	7*56	RSEL2	7*57	RSEL3	7*59	RSEL4
7*60	-WAKE5	7*61	-PARTAC	7*62	DBSYSCLK	7*63	DBARC
7*67	-WAKEMRT	7*68	LOADR	7*69	-LOADT	7*70	-AUSYSCLK
7*71	IR+	7*72	MAR+	7*73	-STORE	7*74	SELR37
7*75	DNS	7*76	-WAKEDVT	7*77	-WAKEDHT	7*78	-IR[07]
7*79	-WAKEWDT	7*80	BUS[00]	7*81	BUS[01]	7*82	BUS[02]
7*83	BUS[03]	7*84	BUS[04]	7*85	BUS[05]	7*86	BUS[06]
7*87	BUS[07]	7*88	BUS[08]	7*89	BUS[09]	7*90	BUS[10]

7*91	BUS[11]	7*92	BUS[12]	7*93	BUS[13]	7*94	BUS[14]
7*95	BUS[15]	7*96	-MD	7*97	-CONST	7*98	-DISP
7*99	EMACT	7*100	-ETAC	7*101	-6ACT	7*102	-5ACT
7*103	-WAKEET	7*104	-WAKE6	7*105	-NEXT[05]	7*106	-NEXT[06]
7*107	-NEXT[07]	7*108	-NEXT[08]	7*109	-NEXT[09]	7*110	-BLOCK
7*111	-KDATAL	7*112	-KSTAT	7*114	-CURTAC	7*115	WAKECURT
7*116	-F2EQ11	7*117	-READMOUS	7*118	-WAKEPART	7*120	BS0
7*121	BS1	7*122	BS2	8*7	LOADL	8*8	-AUSYSCLK
8*10	-IR[00]	8*11	-IR[01]	8*12	-IR[01]	8*13	-IR[03]
8*14	-IR[04]	8*15	-IR[05]	8*16	-IR[06]	8*18	-IR[08]
8*19	-IR[09]	8*20	-IR[10]	8*21	-IR[11]	8*22	-IR[12]
8*23	-IR[12]	8*24	-IR[14]	8*25	-IR[15]	8*26	SHZERO
8*34	-ZEROBUS	8*36	F2[0]	8*37	F2[1]	8*38	F2[2]
8*40	ALUFO	8*41	ALUF1	8*42	ALUF2	8*43	ALUF3
8*44	BSZ0	8*46	-LSH1	8*47	-RSH1	8*48	-LCY8
8*49	LALUC0	8*50	SH[00]	8*54	RSEL0	8*55	RSEL1
8*56	RSEL2	8*57	RSEL3	8*59	RSEL4	8*68	LOADR
8*69	-LOADT	8*71	IR-	8*72	AUSYSCLK	8*73	CARRY
8*74	SKIP	8*75	DNS	8*78	-IR[07]	8*80	BUS[00]
8*81	BUS[01]	8*82	BUS[02]	8*83	BUS[03]	8*84	BUS[04]
8*85	BUS[05]	8*86	BUS[06]	8*87	BUS[07]	8*88	BUS[08]
8*89	BUS[09]	8*90	BUS[10]	8*91	BUS[11]	8*92	BUS[12]
8*93	BUS[13]	8*94	BUS[14]	8*95	BUS[15]	8*98	-DISP
8*99	EMACT	8*100	ALU[00]	8*101	ALU[01]	8*102	ALU[02]
8*103	ALU[03]	8*104	ALU[04]	8*105	ALU[05]	8*106	ALU[06]
8*107	ALU[07]	8*108	ALU[08]	8*109	ALU[09]	8*110	ALU[10]
8*111	ALU[11]	8*112	ALU[12]	8*113	ALU[13]	8*114	ALU[14]
8*115	ALU[15]	8*116	-F2EQ11	9*1	-STOP	9*2	RESET
9*6	RS7	9*7	RS6	9*8	RS4	9*10	RS2
9*11	RS5	9*12	RS1	9*13	-PC	9*14	-CE
9*15	-CS0	9*16	RS0	9*18	-DS1	9*19	-DS0
9*20	-MD[00]	9*21	-MD[01]	9*22	-MD[02]	9*23	-MD[03]
9*24	-MD[04]	9*25	-MD[05]	9*26	-MD[06]	9*28	-MD[07]
9*29	-MD[08]	9*30	-MD[09]	9*31	-MD[10]	9*32	-MD[11]
9*33	-MD[12]	9*34	-MD[13]	9*36	-MD[14]	9*37	-MD[15]
9*38	READPAR	9*39	MAR[06]	9*40	MAR[05]	9*41	MAR[07]
9*42	MAR[08]	9*43	MAR[14]	9*44	MAR[11]	9*46	MAR[13]
9*47	XMAR[15]	9*48	XIOREF	9*49	WRITEPAR	9*50	MAR[09]
9*51	MAR[12]	9*52	MAR[10]	9*54	RSEL0	9*55	RSEL1
9*56	RSEL2	9*57	RSEL3	9*59	RSEL4	9*61	-PARTAC
9*62	-SRESET	9*67	-WAKEMRT	9*68	-SWAKMRT	9*69	MISYSCLK
9*70	RS3	9*71	MIARC	9*72	MAR-	9*73	-STORE
9*74	SELR37	9*75	-CS1	9*76	-CS2	9*77	-CS3
9*78	-W1	9*79	-WO	9*80	BUS[00]	9*81	BUS[01]
9*82	BUS[02]	9*83	BUS[03]	9*84	BUS[04]	9*85	BUS[05]
9*86	BUS[06]	9*87	BUS[07]	9*88	BUS[08]	9*89	BUS[09]
9*90	BUS[10]	9*91	BUS[11]	9*92	BUS[12]	9*93	BUS[13]
9*94	BUS[14]	9*95	BUS[15]	9*96	-MD	9*97	-CONST
9*98	XNT2	9*100	ALU[00]	9*101	ALU[01]	9*102	ALU[02]
9*103	ALU[03]	9*104	ALU[04]	9*105	ALU[05]	9*106	ALU[06]
9*107	ALU[07]	9*108	ALU[08]	9*109	ALU[09]	9*110	ALU[10]
9*111	ALU[11]	9*112	ALU[12]	9*113	ALU[13]	9*114	ALU[14]
9*115	ALU[15]	9*117	-READMOUS	9*118	-WAKEPART	9*120	BS0
9*121	BS1	9*122	BS2	10*20	-MD[00]	10*21	-MD[01]
10*22	-MD[02]	10*23	-MD[03]	10*24	-MD[04]	10*25	-MD[05]
10*26	-MD[06]	10*28	-MD[07]	10*29	-MD[08]	10*30	-MD[09]
10*31	-MD[10]	10*32	-MD[11]	10*33	-MD[12]	10*34	-MD[13]
10*36	-MD[14]	10*37	-MD[15]	10*41	MAR[07]	10*42	MAR[08]
10*43	MAR[14]	10*44	MAR[11]	10*46	MAR[13]	10*47	XMAR[15]
10*48	XIOREF	10*50	MAR[09]	10*51	MAR[12]	10*52	MAR[10]
10*69	MISYSCLK	10*71	MIARC	10*98	XMT2	11*20	-MD[00]
11*21	-MD[01]	11*22	-MD[02]	11*23	-MD[03]	11*24	-MD[04]
11*25	-MD[05]	11*26	-MD[06]	11*28	-MD[07]	11*29	-MD[08]
11*30	-MD[09]	11*31	-MD[10]	11*32	-MD[11]	11*33	-MD[12]
11*34	-MD[13]	11*36	-MD[14]	11*37	-MD[15]	11*41	MAR[07]
11*42	MAR[08]	11*43	MAR[14]	11*44	MAR[11]	11*46	MAR[13]
11*47	XMAR[15]	11*48	XIOREF	11*50	MAR[09]	11*51	MAR[12]
11*52	MAR[10]	11*69	MISYSCLK	11*71	MIARC	11*98	XMT2
12*20	-MD[00]	12*21	-MD[01]	12*22	-MD[02]	12*23	-MD[03]
12*24	-MD[04]	12*25	-MD[05]	12*26	-MD[06]	12*28	-MD[07]
12*29	-MD[08]	12*30	-MD[09]	12*31	-MD[10]	12*32	-MD[11]
12*33	-MD[12]	12*34	-MD[13]	12*36	-MD[14]	12*37	-MD[15]
12*41	MAR[07]	12*42	MAR[08]	12*43	MAR[14]	12*44	MAR[11]
12*46	MAR[13]	12*47	XMAR[15]	12*48	XIOREF	12*50	MAR[09]
12*51	MAR[12]	12*52	MAR[10]	12*69	MISYSCLK	12*71	MIARC
12*98	XMT2	13*67	RS7	13*68	RS6	13*69	RS4
13*70	RS3	13*71	RS2	13*72	RS5	13*73	RS1
13*74	-PC	13*75	-CE	13*76	-CS0	13*77	RS0
13*78	-WO	13*79	-DS0	13*80	-MD[02]	13*81	-MD[00]

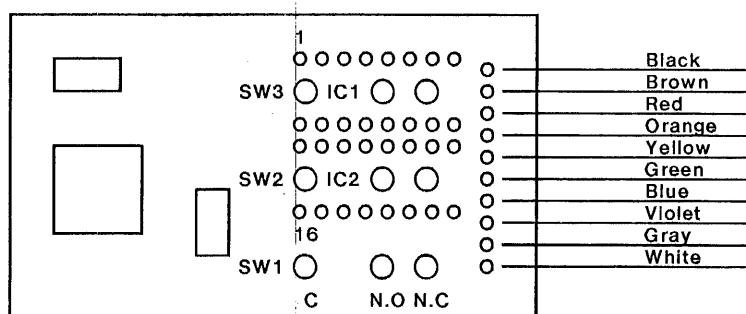
13*82 -MD[01]	13*83 -MD[03]	13*84 -MD[01]	13*85 -MD[00]
13*86 -MD[02]	13*87 -MD[03]	13*88 -MD[04]	13*89 -MD[05]
13*90 -MD[04]	13*91 -MD[05]	13*92 -MD[07]	13*93 -MD[06]
13*94 -MD[06]	13*95 -MD[07]	13*96 -MD[08]	13*97 -MD[09]
13*98 -MD[10]	13*99 -MD[11]	13*100 MAR[06]	13*101 MAR[05]
13*102 MAR[07]	13*103 MAR[08]	13*104 MAR[14]	13*105 MAR[11]
13*106 MAR[13]	13*107 -MD[08]	13*108 -MD[09]	13*109 -MD[10]
13*110 -MD[11]	13*111 MAR[09]	13*112 MAR[12]	13*113 MAR[10]
14*67 RS7	14*68 RS6	14*69 RS4	14*70 RS3
14*71 RS2	14*72 RS5	14*73 RS1	14*74 -PC
14*75 -CE	14*76 -CS0	14*77 RSO	14*78 -W0
14*79 -DS0	14*92 -MD[12]	14*95 -MD[12]	14*96 -MD[13]
14*97 -MD[14]	14*98 -MD[15]	14*99 READPAR	14*100 MAR[06]
14*101 MAR[05]	14*102 MAR[07]	14*103 MAR[08]	14*104 MAR[14]
14*105 MAR[11]	14*106 MAR[13]	14*107 -MD[13]	14*108 -MD[14]
14*109 -MD[15]	14*110 WRITEPAR	14*111 MAR[09]	14*112 MAR[12]
14*113 MAR[10]	15*67 RS7	15*68 RS6	15*69 RS4
15*70 RS3	15*71 RS2	15*72 RS5	15*73 RS1
15*74 -PC	15*75 -CE	15*76 -CS0	15*77 RSO
15*78 -W1	15*79 -DS1	15*80 -MD[02]	15*81 -MD[00]
15*82 -MD[01]	15*83 -MD[03]	15*84 -MD[01]	15*85 -MD[00]
15*86 -MD[02]	15*87 -MD[03]	15*88 -MD[04]	15*89 -MD[05]
15*90 -MD[04]	15*91 -MD[05]	15*92 -MD[07]	15*93 -MD[06]
15*94 -MD[06]	15*95 -MD[07]	15*96 -MD[08]	15*97 -MD[09]
15*98 -MD[10]	15*99 -MD[11]	15*100 MAR[06]	15*101 MAR[05]
15*102 MAR[07]	15*103 MAR[08]	15*104 MAR[14]	15*105 MAR[11]
15*106 MAR[13]	15*107 -MD[08]	15*108 -MD[09]	15*109 -MD[10]
15*110 -MD[11]	15*111 MAR[09]	15*112 MAR[12]	15*113 MAR[10]
16*67 RS7	16*68 RS6	16*69 RS4	16*70 RS3
16*71 RS2	16*72 RS5	16*73 RS1	16*74 -PC
16*75 -CE	16*76 -CS0	16*77 RSO	16*78 -W1
16*79 -DS1	16*92 -MD[12]	16*95 -MD[12]	16*96 -MD[13]
16*97 -MD[14]	16*98 -MD[15]	16*99 READPAR	16*100 MAR[06]
16*101 MAR[05]	16*102 MAR[07]	16*103 MAR[08]	16*104 MAR[14]
16*105 MAR[11]	16*106 MAR[13]	16*107 -MD[13]	16*108 -MD[14]
16*109 -MD[15]	16*110 WRITEPAR	16*111 MAR[09]	16*112 MAR[12]
16*113 MAR[10]	17*67 RS7	17*68 RS6	17*69 RS4
17*70 RS3	17*71 RS2	17*72 RS5	17*73 RS1
17*74 -PC	17*75 -CE	17*76 -CS1	17*77 RSO
17*78 -W0	17*79 -DS0	17*80 -MD[02]	17*81 -MD[00]
17*82 -MD[01]	17*83 -MD[03]	17*84 -MD[01]	17*85 -MD[00]
17*86 -MD[02]	17*87 -MD[03]	17*88 -MD[04]	17*89 -MD[05]
17*90 -MD[04]	17*91 -MD[05]	17*92 -MD[07]	17*93 -MD[06]
17*94 -MD[06]	17*95 -MD[07]	17*96 -MD[08]	17*97 -MD[09]
17*98 -MD[10]	17*99 -MD[11]	17*100 MAR[06]	17*101 MAR[05]
17*102 MAR[07]	17*103 MAR[08]	17*104 MAR[14]	17*105 MAR[11]
17*106 MAR[13]	17*107 -MD[08]	17*108 -MD[09]	17*109 -MD[10]
17*110 -MD[11]	17*111 MAR[09]	17*112 MAR[12]	17*113 MAR[10]
18*67 RS7	18*68 RS6	18*69 RS4	18*70 RS3
18*71 RS2	18*72 RS5	18*73 RS1	18*74 -PC
18*75 -CE	18*76 -CS1	18*77 RSO	18*78 -W0
18*79 -DS0	18*92 -MD[12]	18*95 -MD[12]	18*96 -MD[13]
18*97 -MD[14]	18*98 -MD[15]	18*99 READPAR	18*100 MAR[06]
18*101 MAR[05]	18*102 MAR[07]	18*103 MAR[08]	18*104 MAR[14]
18*105 MAR[11]	18*106 MAR[13]	18*107 -MD[13]	18*108 -MD[14]
18*109 -MD[15]	18*110 WRITEPAR	18*111 MAR[09]	18*112 MAR[12]
18*113 MAR[10]	19*67 RS7	19*68 RS6	19*69 RS4
19*70 RS3	19*71 RS2	19*72 RS5	19*73 RS1
19*74 -PC	19*75 -CE	19*76 -CS1	19*77 RSO
19*78 -W1	19*79 -DS1	19*80 -MD[02]	19*81 -MD[00]
19*82 -MD[01]	19*83 -MD[03]	19*84 -MD[01]	19*85 -MD[00]
19*86 -MD[02]	19*87 -MD[03]	19*88 -MD[04]	19*89 -MD[05]
19*90 -MD[04]	19*91 -MD[05]	19*92 -MD[07]	19*93 -MD[06]
19*94 -MD[06]	19*95 -MD[07]	19*96 -MD[08]	19*97 -MD[09]
19*98 -MD[10]	19*99 -MD[11]	19*100 MAR[06]	19*101 MAR[05]
19*102 MAR[07]	19*103 MAR[08]	19*104 MAR[14]	19*105 MAR[11]
19*106 MAR[13]	19*107 -MD[08]	19*108 -MD[09]	19*109 -MD[10]
19*110 -MD[11]	19*111 MAR[09]	19*112 MAR[12]	19*113 MAR[10]
20*67 RS7	20*68 RS6	20*69 RS4	20*70 RS3
20*71 RS2	20*72 RS5	20*73 RS1	20*74 -PC
20*75 -CE	20*76 -CS1	20*77 RSO	20*78 -W1
20*79 -DS1	20*92 -MD[12]	20*95 -MD[12]	20*96 -MD[13]
20*97 -MD[14]	20*98 -MD[15]	20*99 READPAR	20*100 MAR[06]
20*101 MAR[05]	20*102 MAR[07]	20*103 MAR[08]	20*104 MAR[14]
20*105 MAR[11]	20*106 MAR[13]	20*107 -MD[13]	20*108 -MD[14]
20*109 -MD[15]	20*110 WRITEPAR	20*111 MAR[09]	20*112 MAR[12]
20*113 MAR[10]	21*67 RS7	21*68 RS6	21*69 RS4
21*70 RS3	21*71 RS2	21*72 RS5	21*73 RS1
21*74 -PC	21*75 -CE	21*76 -CS2	21*77 RSO

21*78	-W0	21*79	-DS0	21*80	-MD[02]	21*81	-MD[00]
21*82	-MD[01]	21*83	-MD[03]	21*84	-MD[01]	21*85	-MD[00]
21*86	-MD[02]	21*87	-MD[03]	21*88	-MD[04]	21*89	-MD[05]
21*90	-MD[04]	21*91	-MD[05]	21*92	-MD[07]	21*93	-MD[06]
21*94	-MD[06]	21*95	-MD[07]	21*96	-MD[08]	21*97	-MD[09]
21*98	-MD[10]	21*99	-MD[11]	21*100	MAR[06]	21*101	MAR[05]
21*102	MAR[07]	21*103	MAR[08]	21*104	MAR[14]	21*105	MAR[11]
21*106	MAR[13]	21*107	-MD[08]	21*108	-MD[09]	21*109	-MD[10]
21*110	-MD[11]	21*111	MAR[09]	21*112	MAR[12]	21*113	MAR[10]
22*67	RS7	22*68	RS6	22*69	RS4	22*70	RS3
22*71	RS2	22*72	RS5	22*73	RS1	22*74	-PC
22*75	-CE	22*76	-CS2	22*77	RS0	22*78	-W0
22*79	-DS0	22*92	-MD[12]	22*95	-MD[12]	22*96	-MD[13]
22*97	-MD[14]	22*98	-MD[15]	22*99	READPAR	22*100	MAR[06]
22*101	MAR[05]	22*102	MAR[07]	22*103	MAR[08]	22*104	MAR[14]
22*105	MAR[11]	22*106	MAR[13]	22*107	-MD[13]	22*108	-MD[14]
22*109	-MD[15]	22*110	WRITEPAR	22*111	MAR[09]	22*112	MAR[12]
22*113	MAR[10]	23*67	RS7	23*68	RS6	23*69	RS4
23*70	RS3	23*71	RS2	23*72	RS5	23*73	RS1
23*74	-PC	23*75	-CE	23*76	-CS2	23*77	RS0
23*78	-W1	23*79	-DS1	23*80	-MD[02]	23*81	-MD[00]
23*82	-MD[01]	23*83	-MD[03]	23*84	-MD[01]	23*85	-MD[00]
23*86	-MD[02]	23*87	-MD[03]	23*88	-MD[04]	23*89	-MD[05]
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23*94	-MD[06]	23*95	-MD[07]	23*96	-MD[08]	23*97	-MD[09]
23*98	-MD[10]	23*99	-MD[11]	23*100	MAR[06]	23*101	MAR[05]
23*102	MAR[07]	23*103	MAR[08]	23*104	MAR[14]	23*105	MAR[11]
23*106	MAR[13]	23*107	-MD[08]	23*108	-MD[09]	23*109	-MD[10]
23*110	-MD[11]	23*111	MAR[09]	23*112	MAR[12]	23*113	MAR[10]
24*67	RS7	24*68	RS6	24*69	RS4	24*70	RS3
24*71	RS2	24*72	RS5	24*73	RS1	24*74	-PC
24*75	-CE	24*76	-CS2	24*77	RS0	24*78	-W1
24*79	-DS1	24*92	-MD[12]	24*95	-MD[12]	24*96	-MD[13]
24*97	-MD[14]	24*98	-MD[15]	24*99	READPAR	24*100	MAR[06]
24*101	MAR[05]	24*102	MAR[07]	24*103	MAR[08]	24*104	MAR[14]
24*105	MAR[11]	24*106	MAR[13]	24*107	-MD[13]	24*108	-MD[14]
24*109	-MD[15]	24*110	WRITEPAR	24*111	MAR[09]	24*112	MAR[12]
24*113	MAR[10]	25*67	RS7	25*68	RS6	25*69	RS4
25*70	RS3	25*71	RS2	25*72	RS5	25*73	RS1
25*74	-PC	25*75	-CE	25*76	-CS3	25*77	RS0
25*78	-W0	25*79	-DS0	25*80	-MD[02]	25*81	-MD[00]
25*82	-MD[01]	25*83	-MD[03]	25*84	-MD[01]	25*85	-MD[00]
25*86	-MD[02]	25*87	-MD[03]	25*88	-MD[04]	25*89	-MD[05]
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26*67	RS7	26*68	RS6	26*69	RS4	26*70	RS3
26*71	RS2	26*72	RS5	26*73	RS1	26*74	-PC
26*75	-CE	26*76	-CS3	26*77	RS0	26*78	-W0
26*79	-DS0	26*92	-MD[12]	26*95	-MD[12]	26*96	-MD[13]
26*97	-MD[14]	26*98	-MD[15]	26*99	READPAR	26*100	MAR[06]
26*101	MAR[05]	26*102	MAR[07]	26*103	MAR[08]	26*104	MAR[14]
26*105	MAR[11]	26*106	MAR[13]	26*107	-MD[13]	26*108	-MD[14]
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26*113	MAR[10]	27*67	RS7	27*68	RS6	27*69	RS4
27*70	RS3	27*71	RS2	27*72	RS5	27*73	RS1
27*74	-PC	27*75	-CE	27*76	-CS3	27*77	RS0
27*78	-W1	27*79	-DS1	27*80	-MD[02]	27*81	-MD[00]
27*82	-MD[01]	27*83	-MD[03]	27*84	-MD[01]	27*85	-MD[00]
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27*90	-MD[04]	27*91	-MD[05]	27*92	-MD[07]	27*93	-MD[06]
27*94	-MD[06]	27*95	-MD[07]	27*96	-MD[08]	27*97	-MD[09]
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27*102	MAR[07]	27*103	MAR[08]	27*104	MAR[14]	27*105	MAR[11]
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27*110	-MD[11]	27*111	MAR[09]	27*112	MAR[12]	27*113	MAR[10]
28*67	RS7	28*68	RS6	28*69	RS4	28*70	RS3
28*71	RS2	28*72	RS5	28*73	RS1	28*74	-PC
28*75	-CE	28*76	-CS3	28*77	RS0	28*78	-W1
28*79	-DS1	28*92	-MD[12]	28*95	-MD[12]	28*96	-MD[13]
28*97	-MD[14]	28*98	-MD[15]	28*99	READPAR	28*100	MAR[06]
28*101	MAR[05]	28*102	MAR[07]	28*103	MAR[08]	28*104	MAR[14]
28*105	MAR[11]	28*106	MAR[13]	28*107	-MD[13]	28*108	-MD[14]
28*109	-MD[15]	28*110	WRITEPAR	28*111	MAR[09]	28*112	MAR[12]

28*113 MAR[10]†L



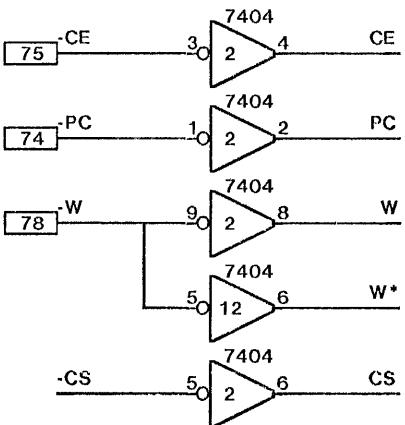
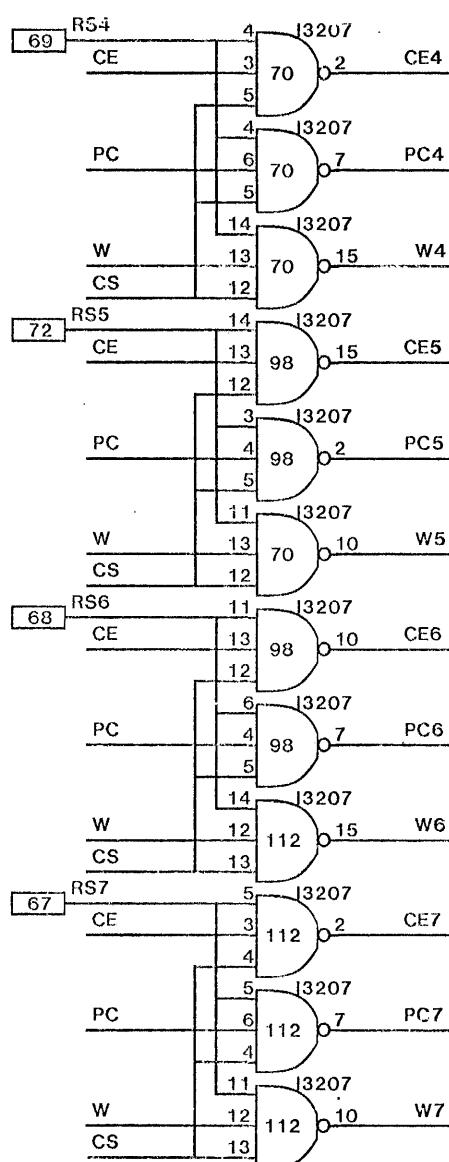
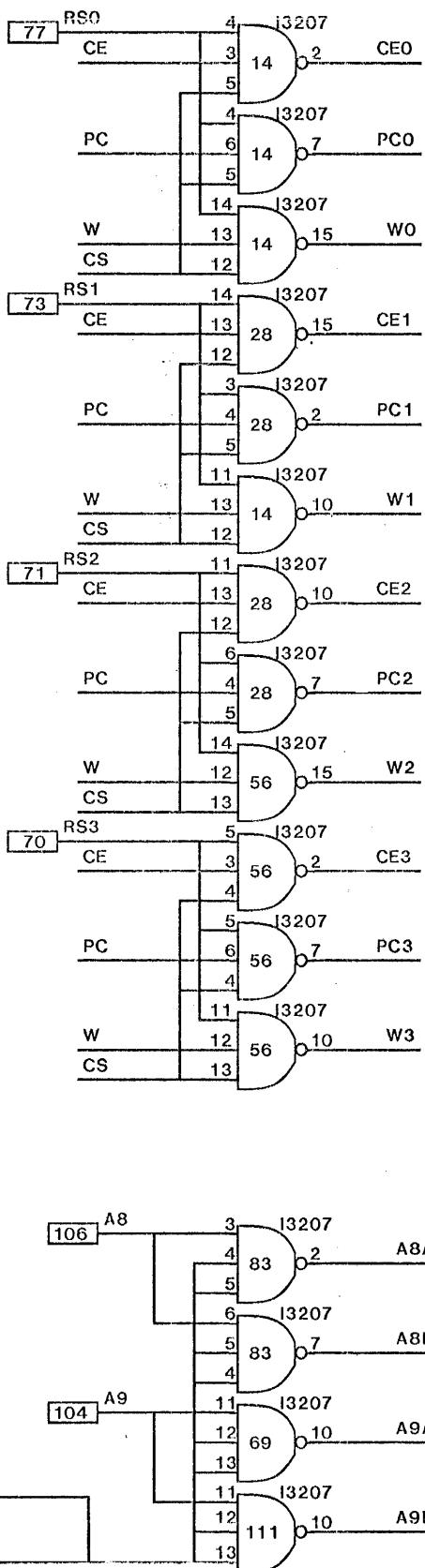
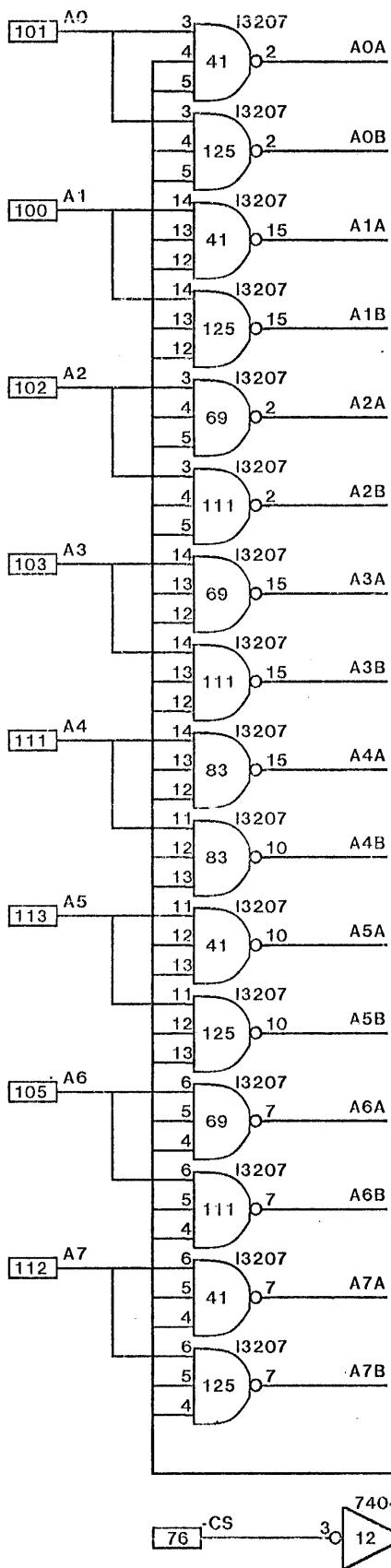
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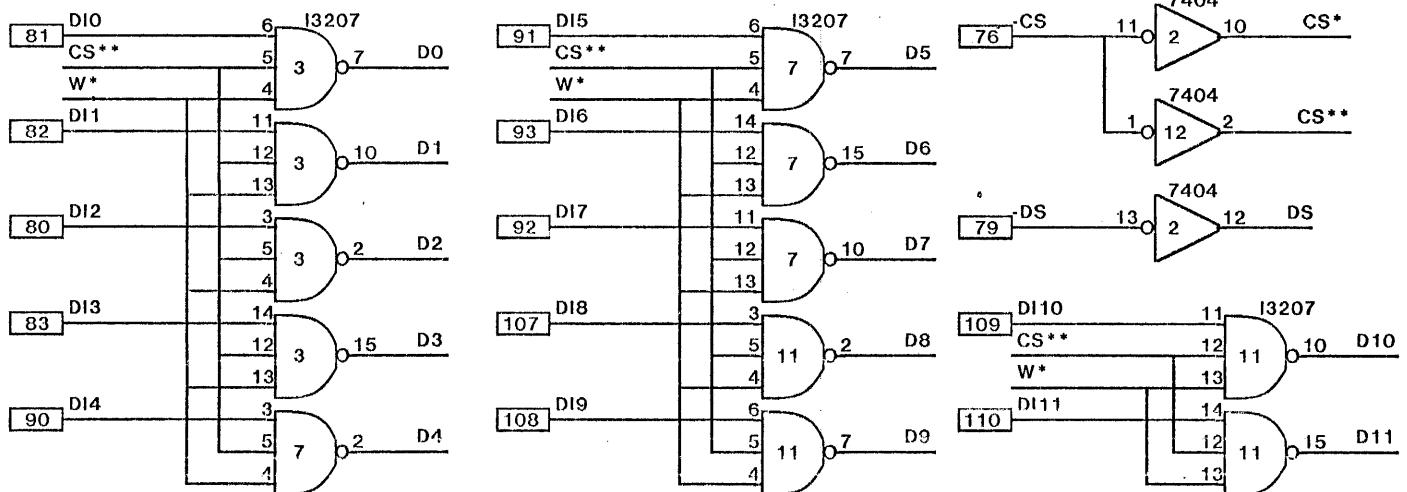
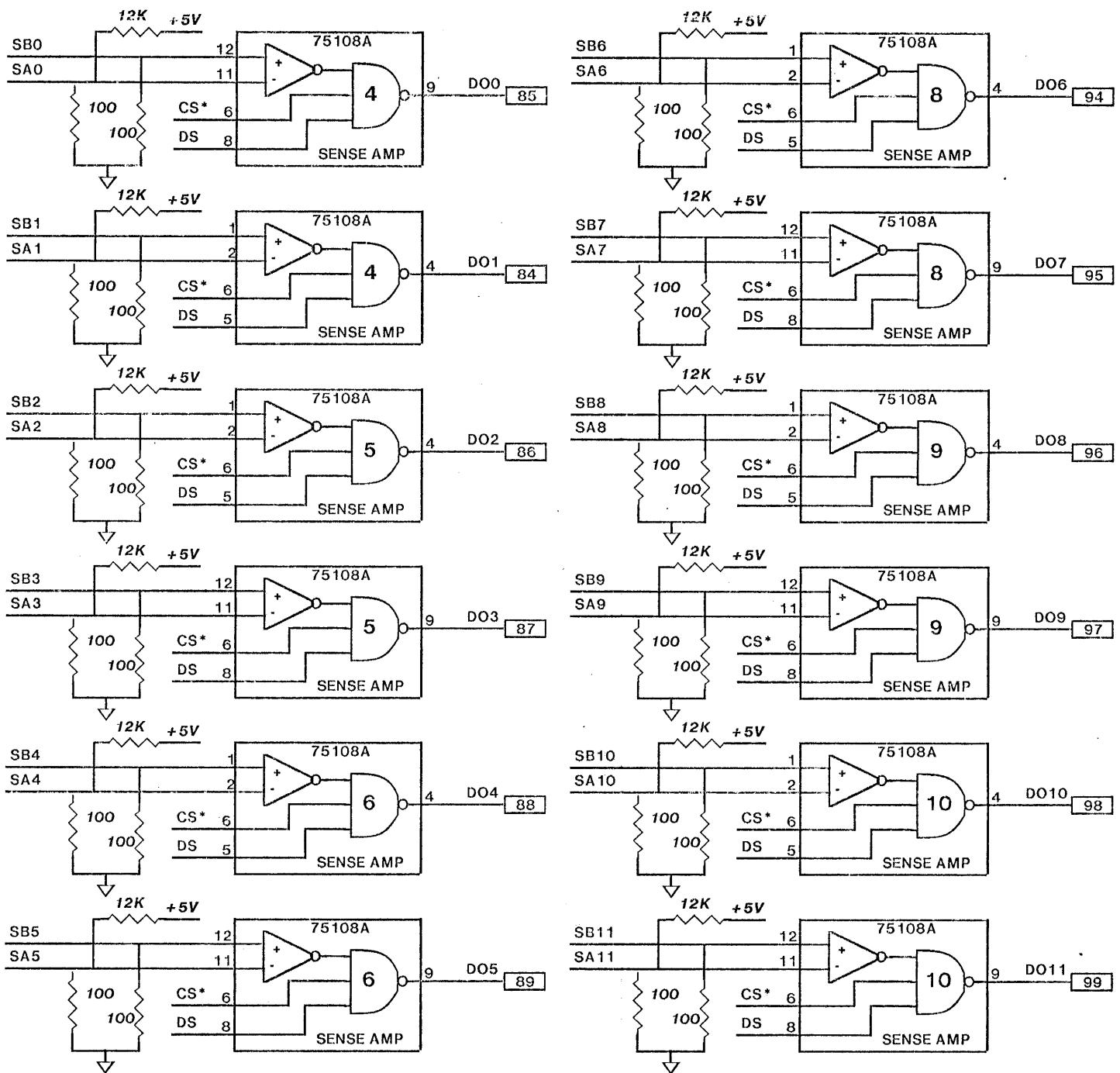


Mouse P.C.B.

31 JAN 77

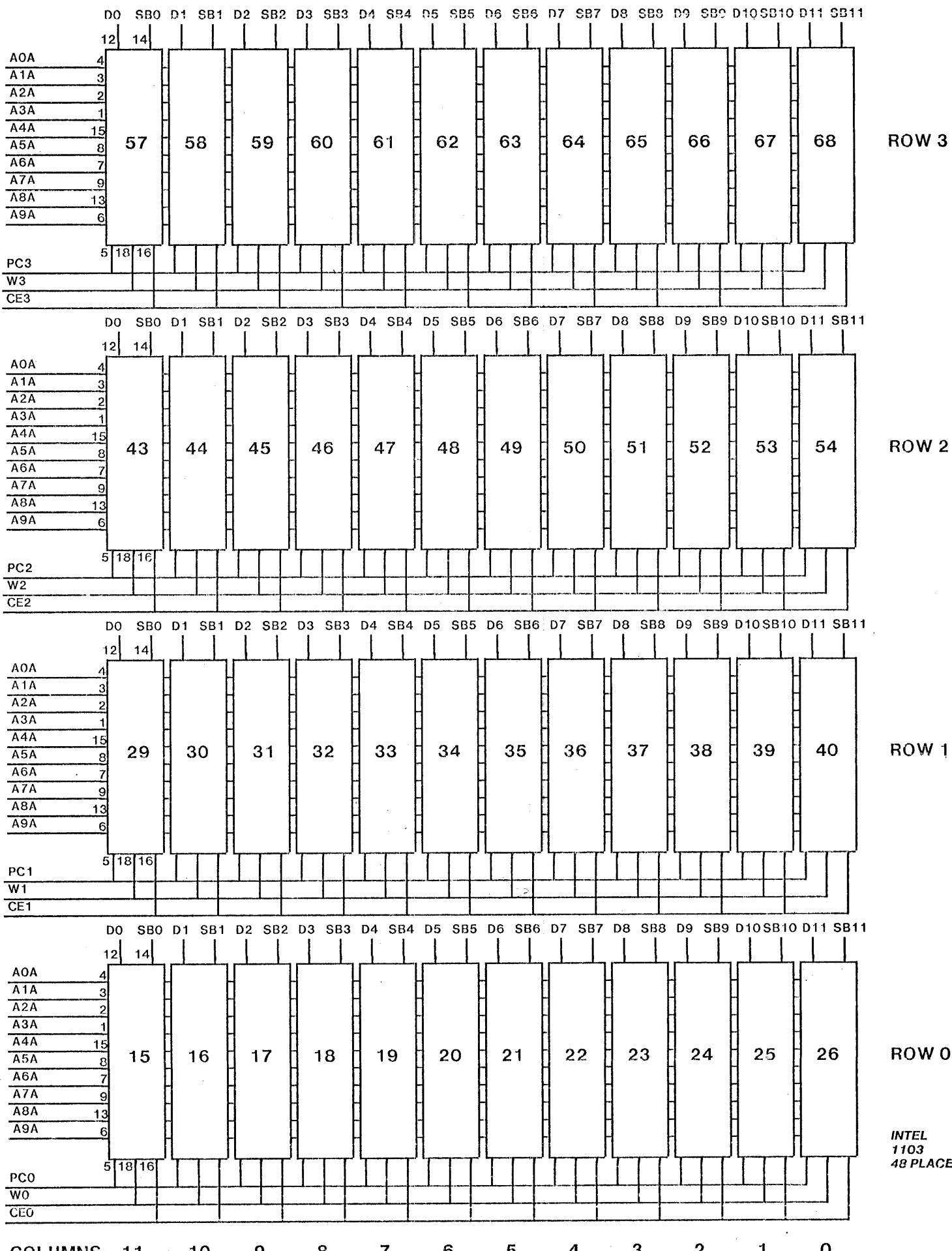
ALTO MOS MEMORY Page 1





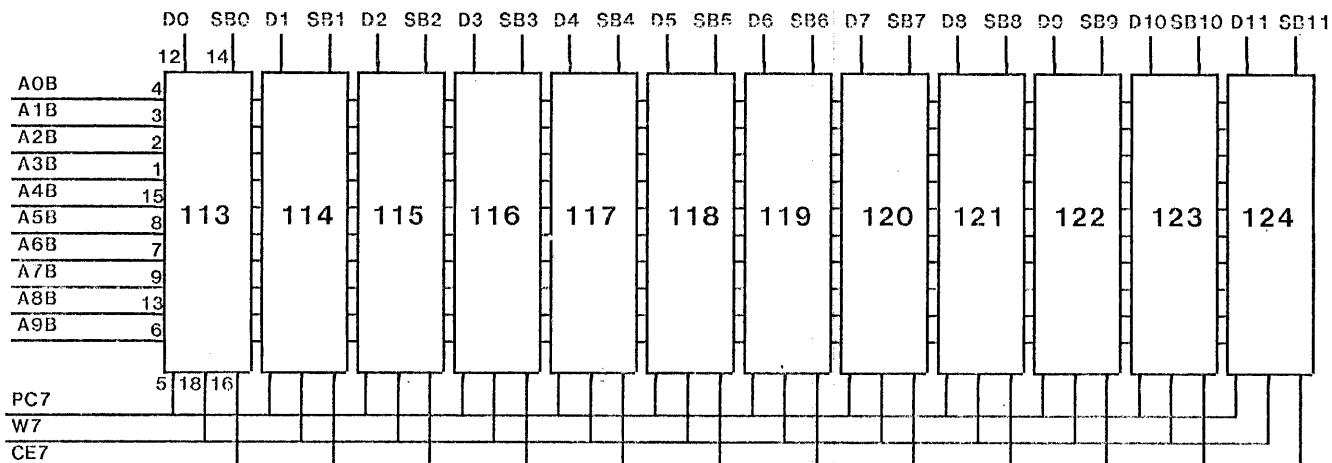
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ALTO MOS MEMORY Page 3

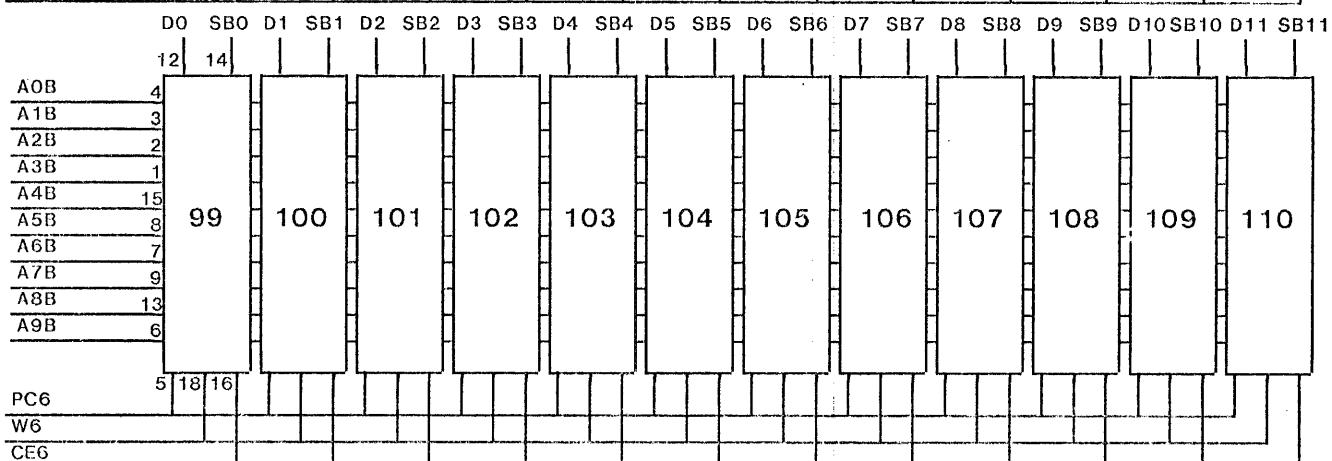


31 JAN 77

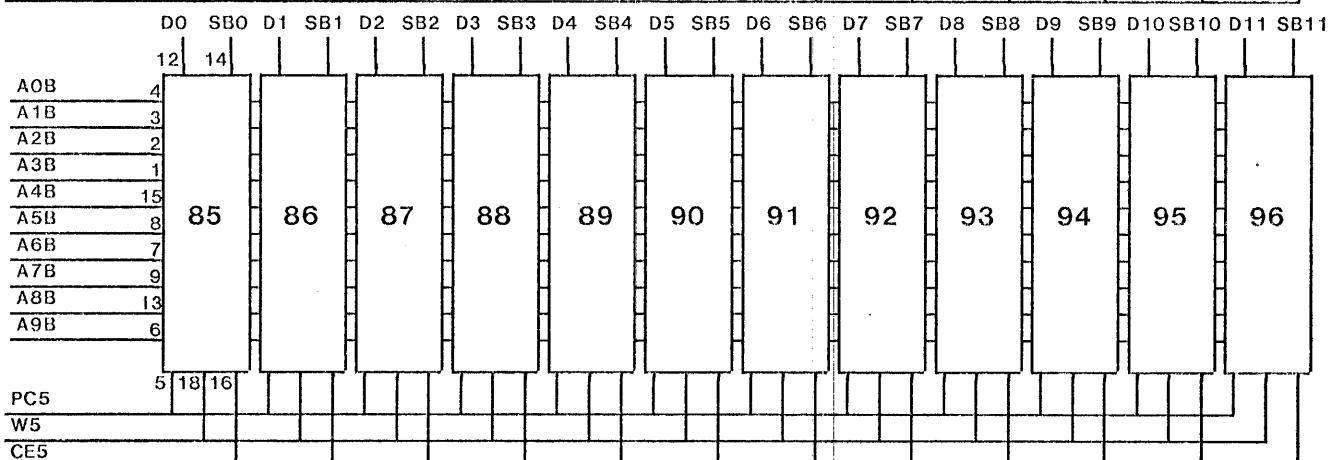
ALTO MOS MEMORY Page 4



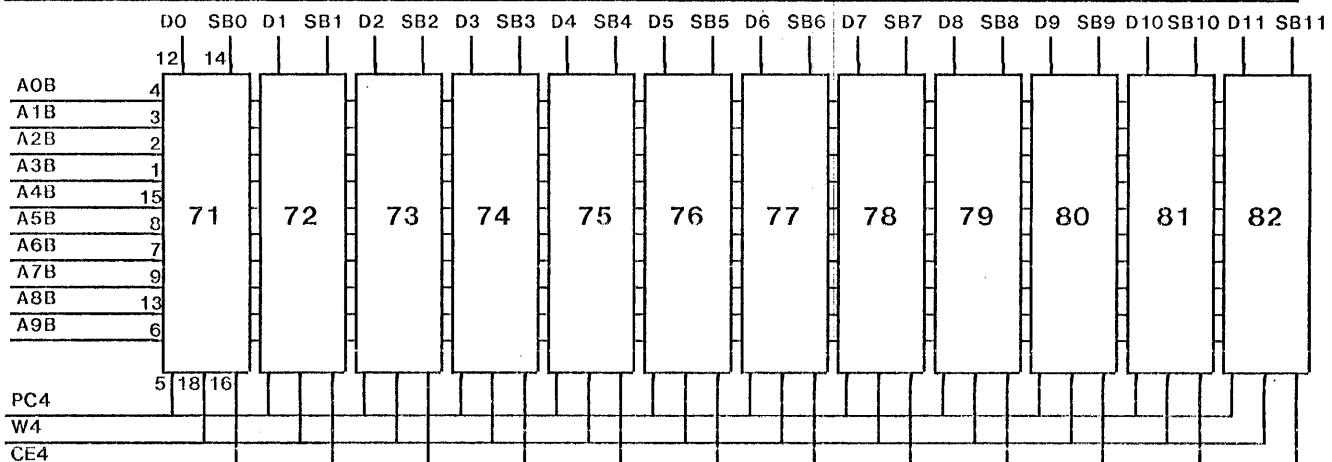
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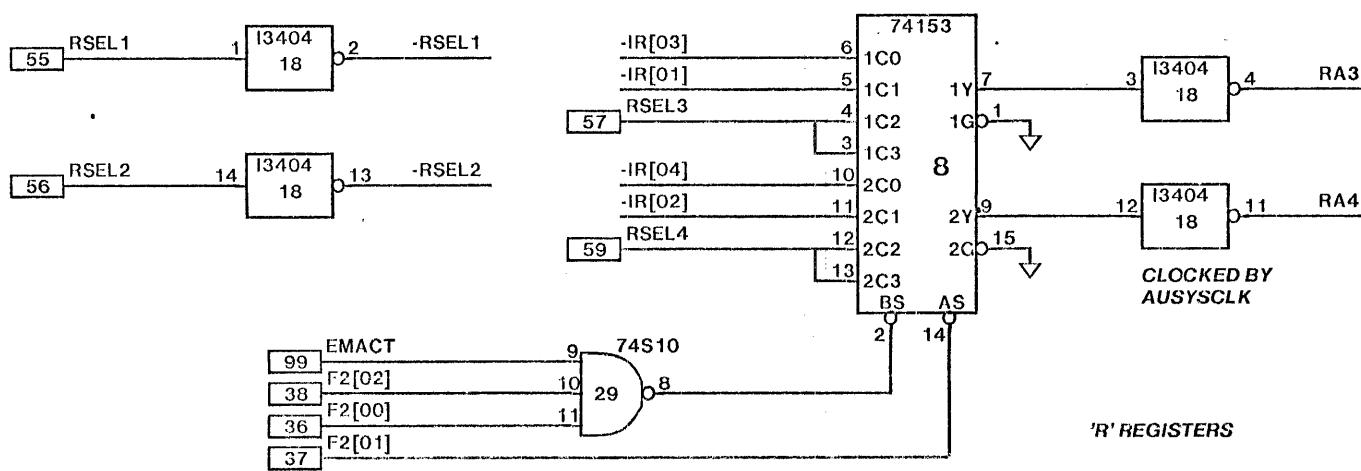
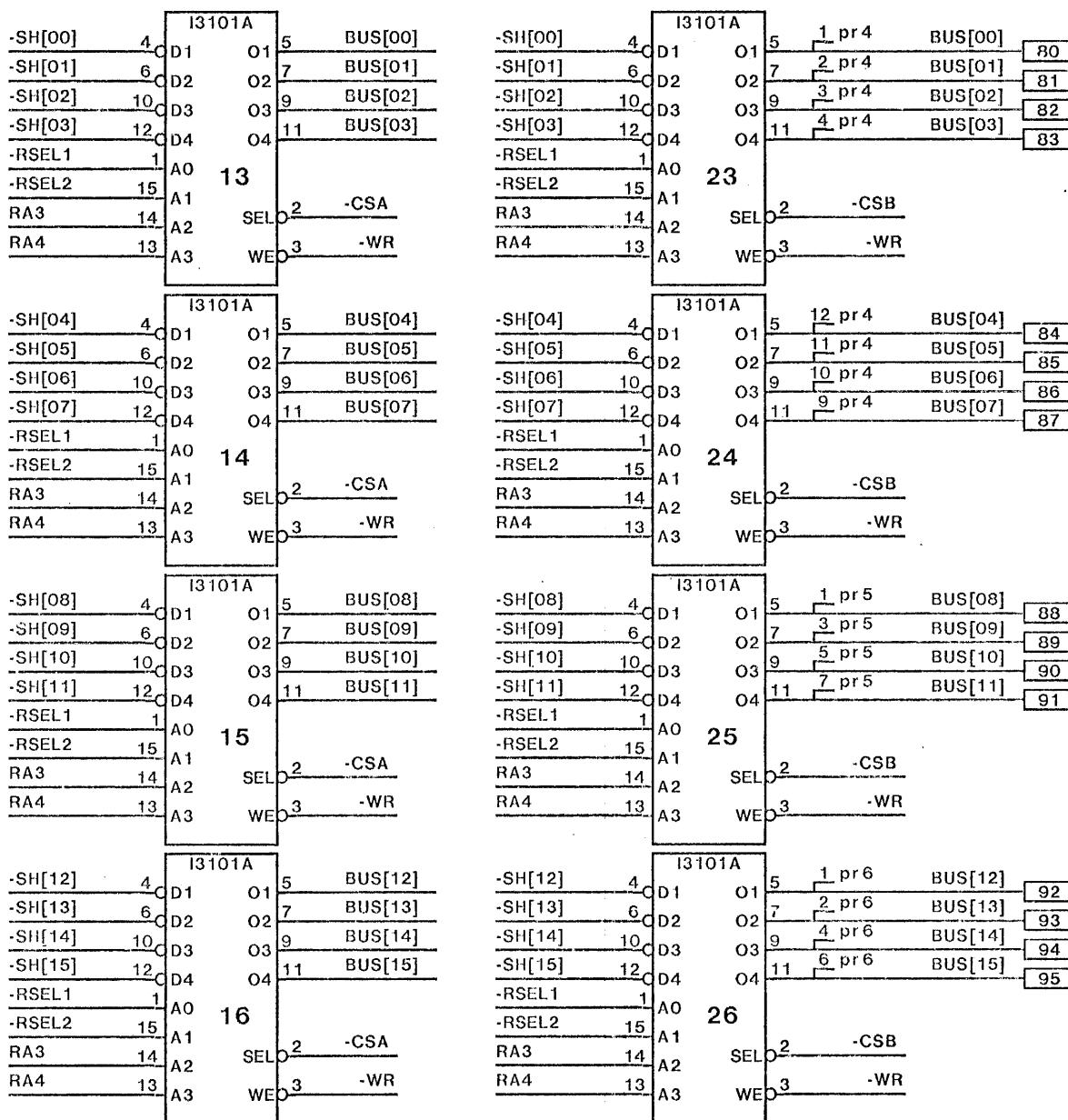
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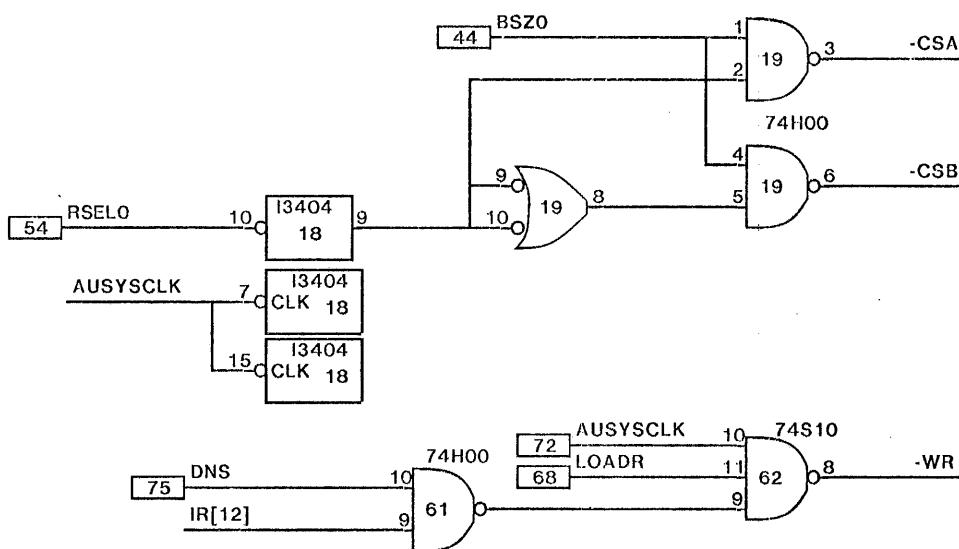
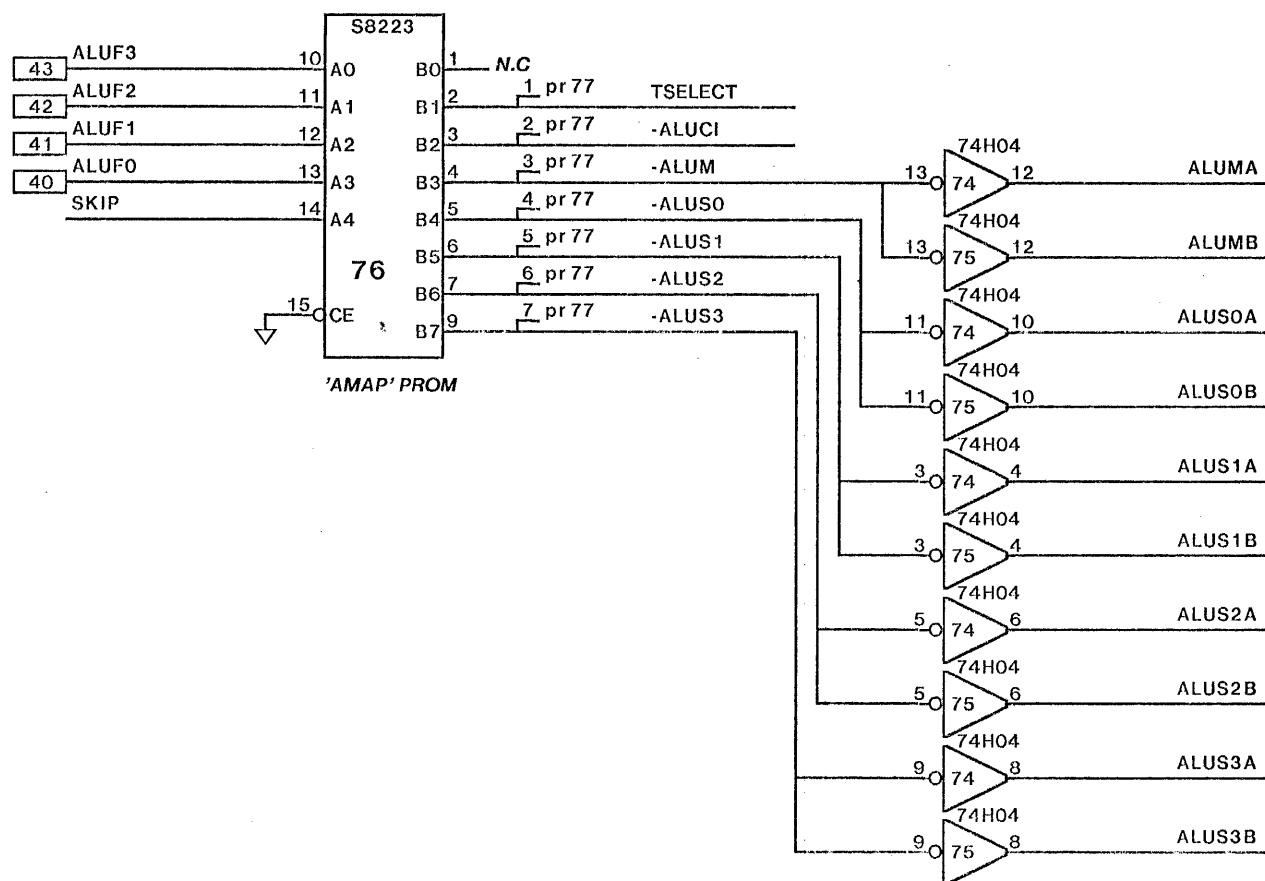


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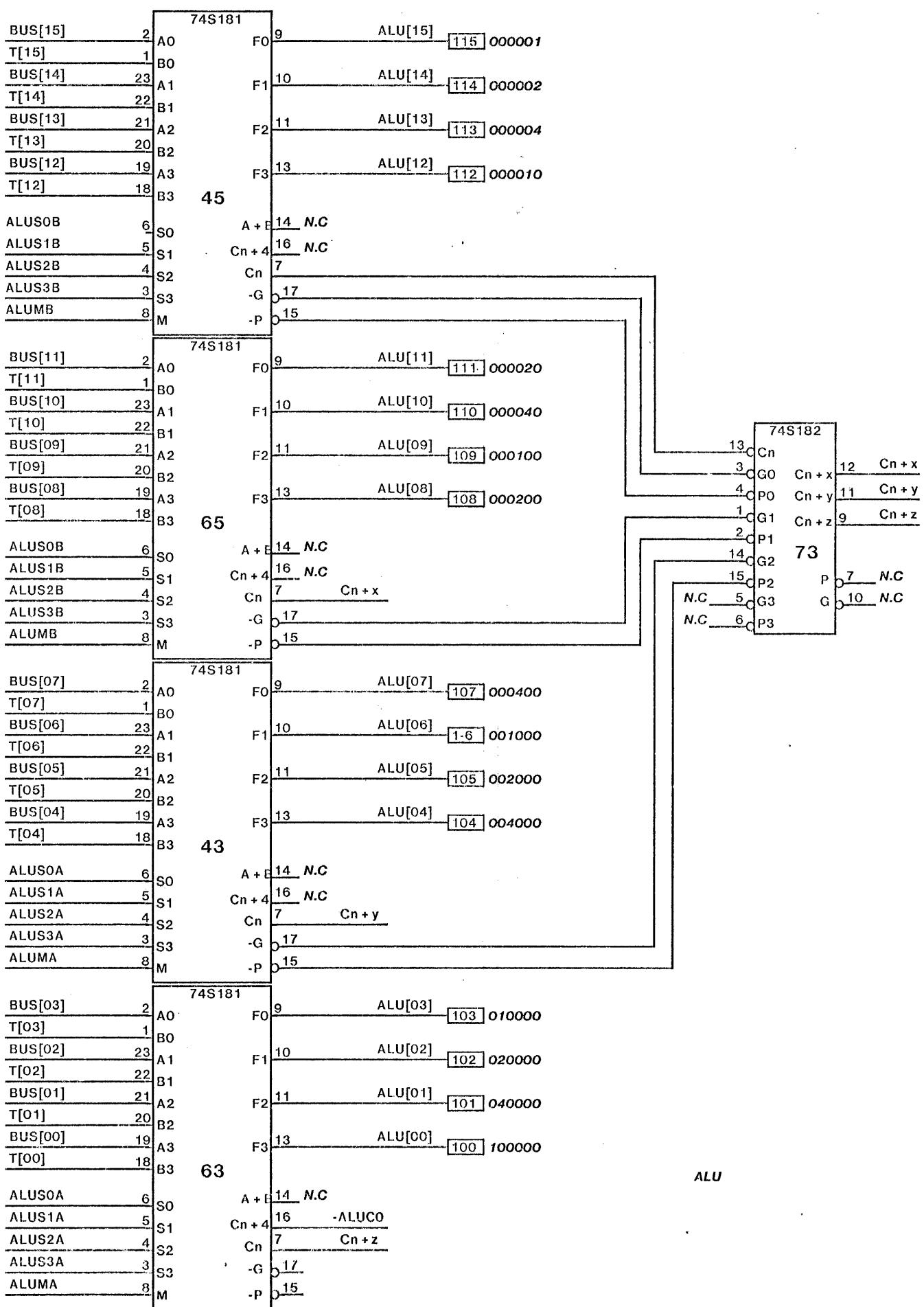
INTEL
1103
48 PLACES

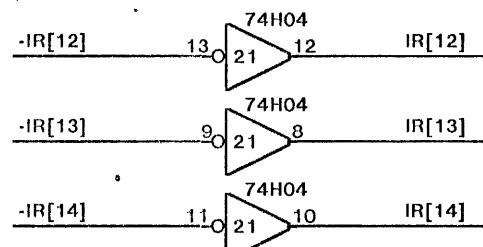
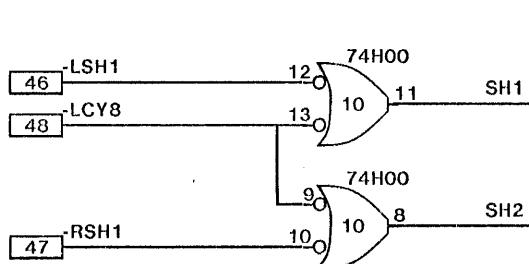
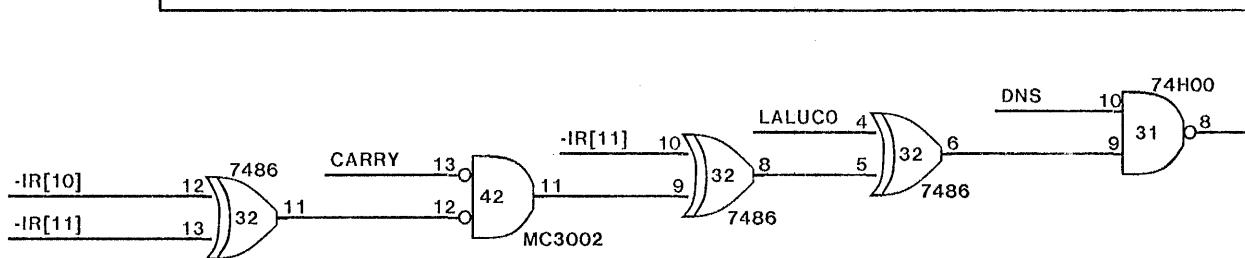
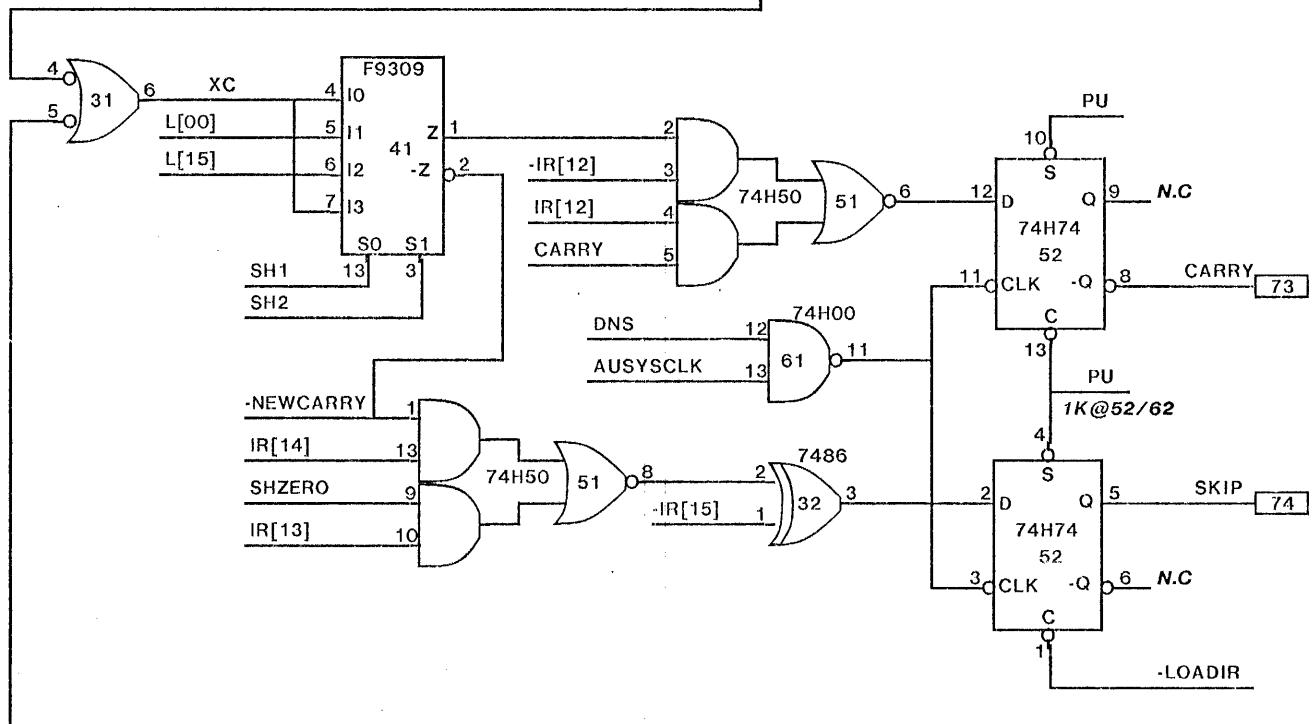
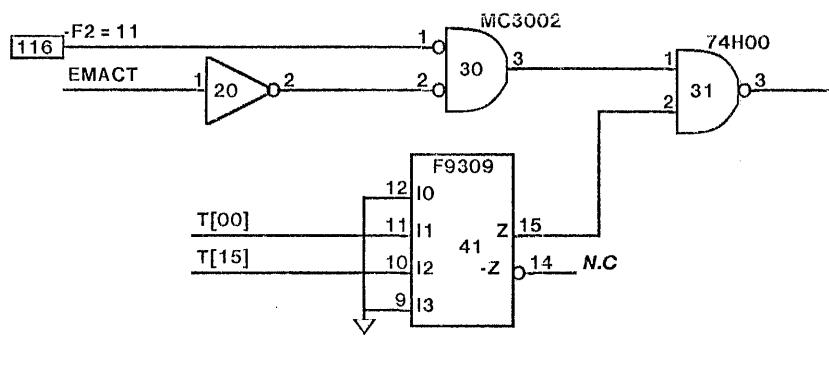
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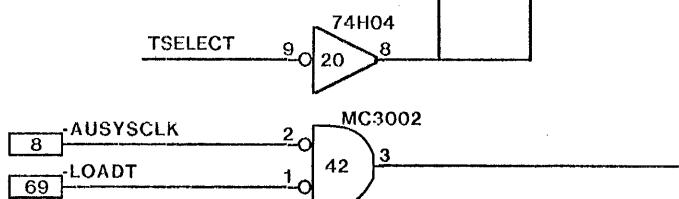
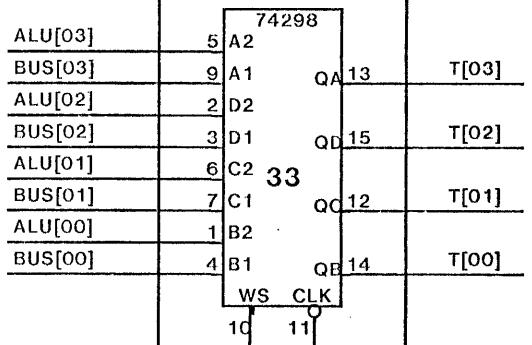
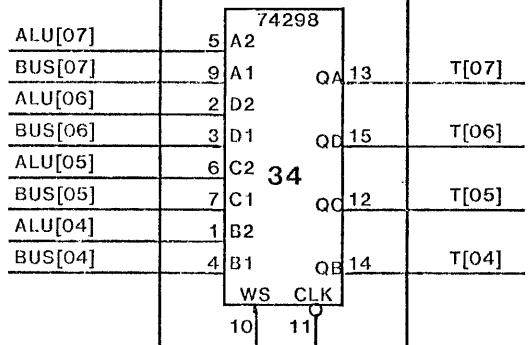
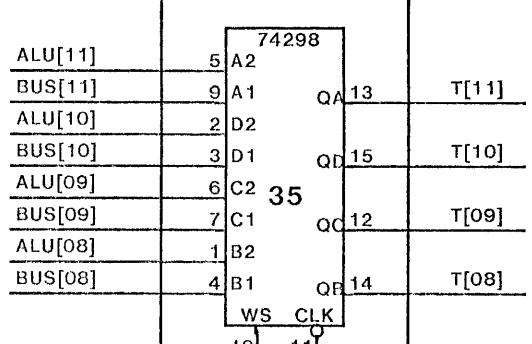
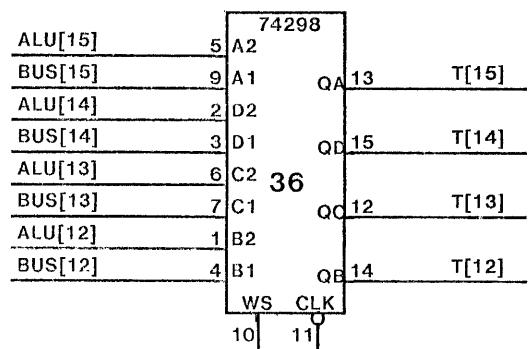
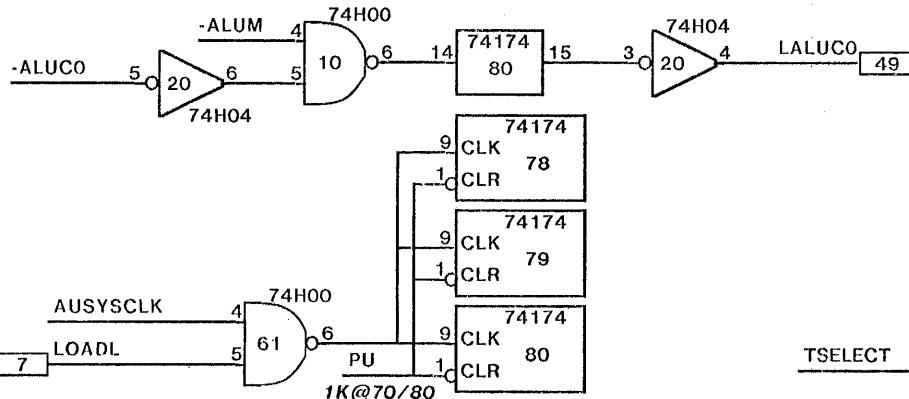
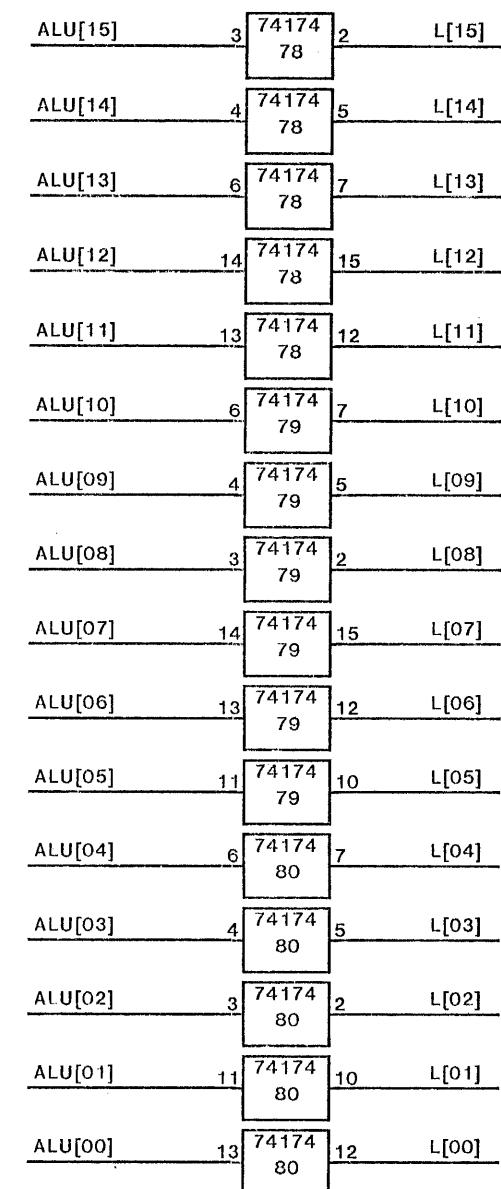


ALU CONTROL



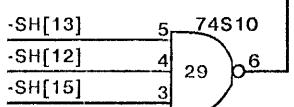
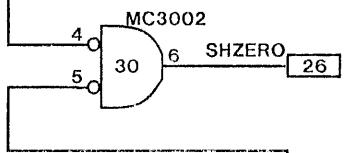
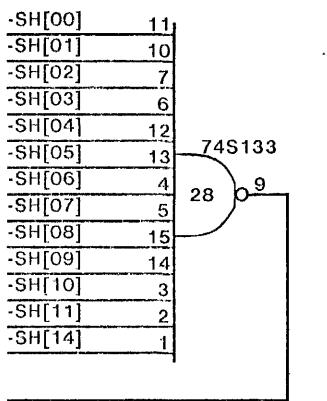
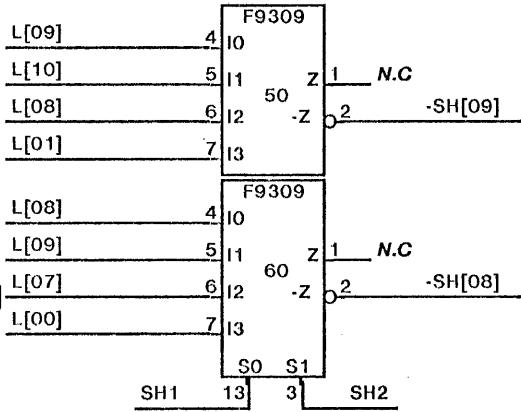
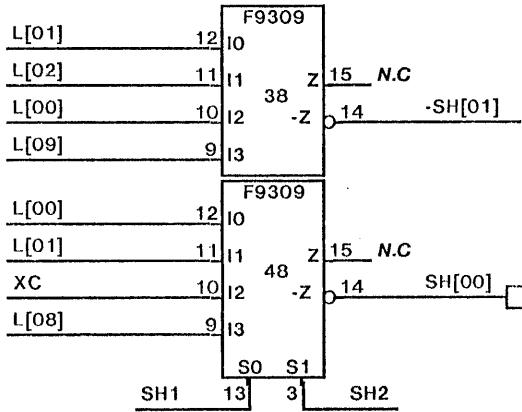
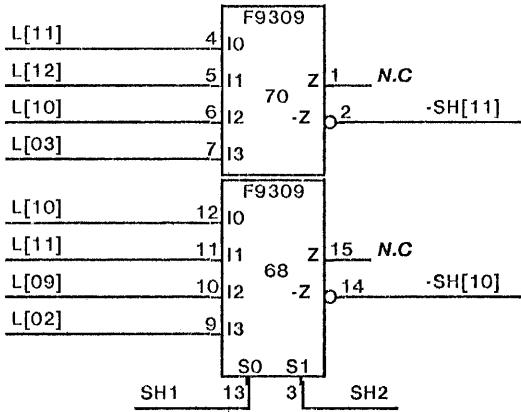
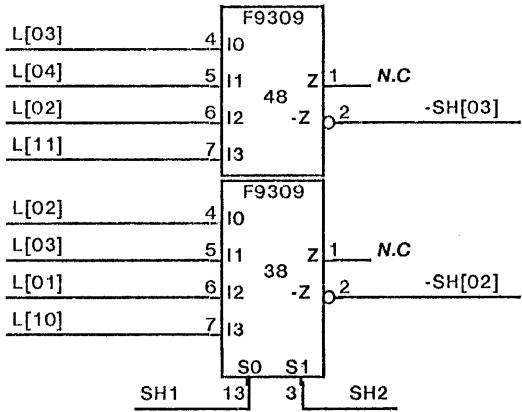
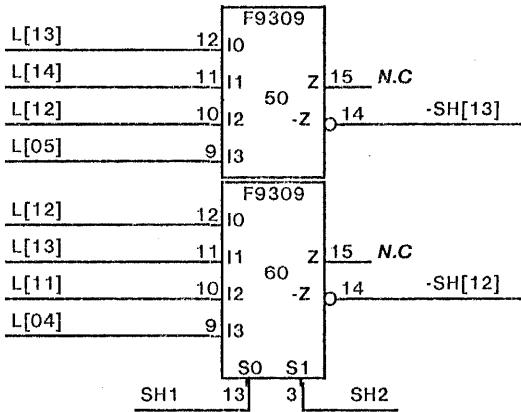
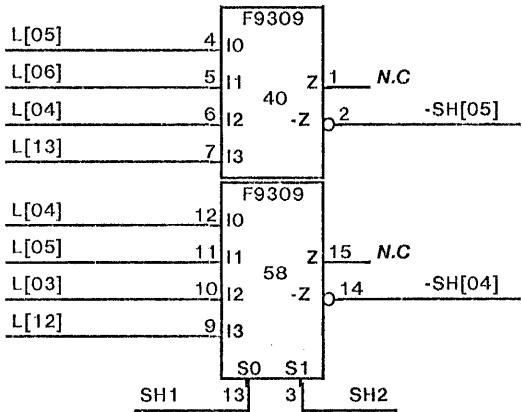
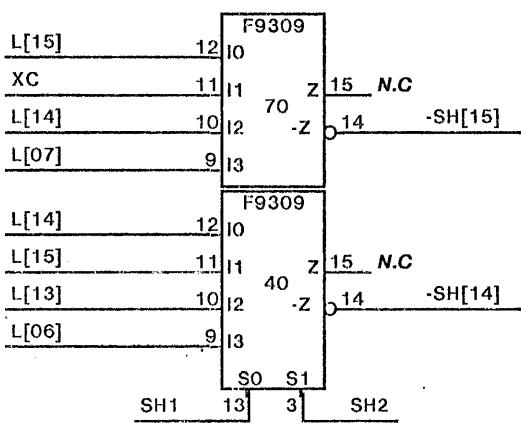
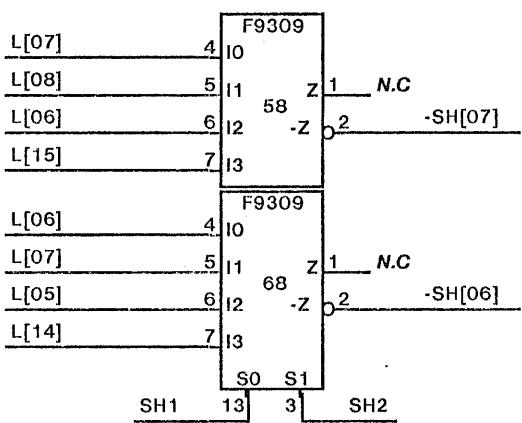


SKIP/CARRY



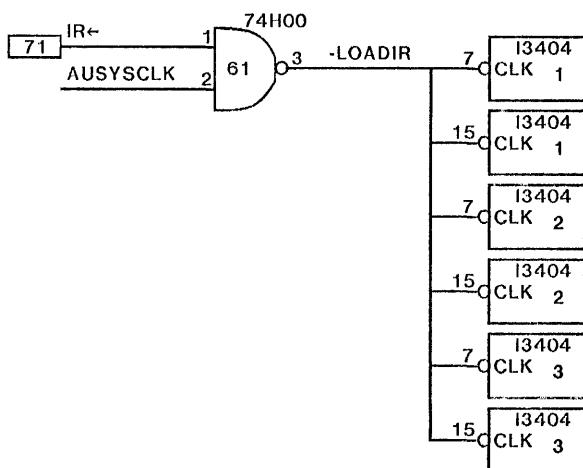
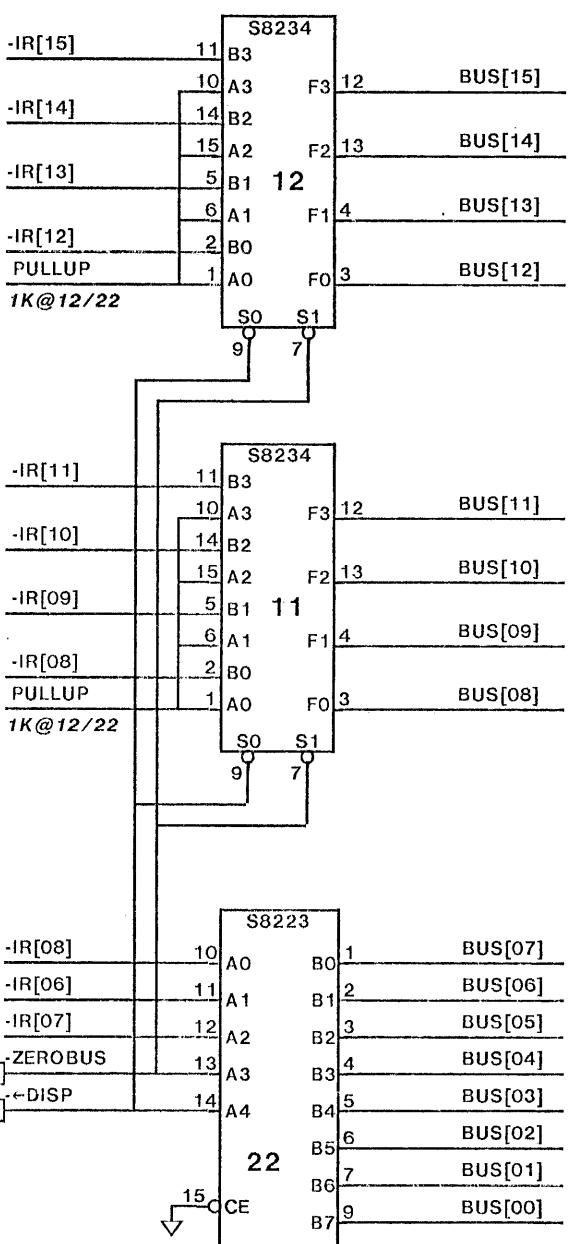
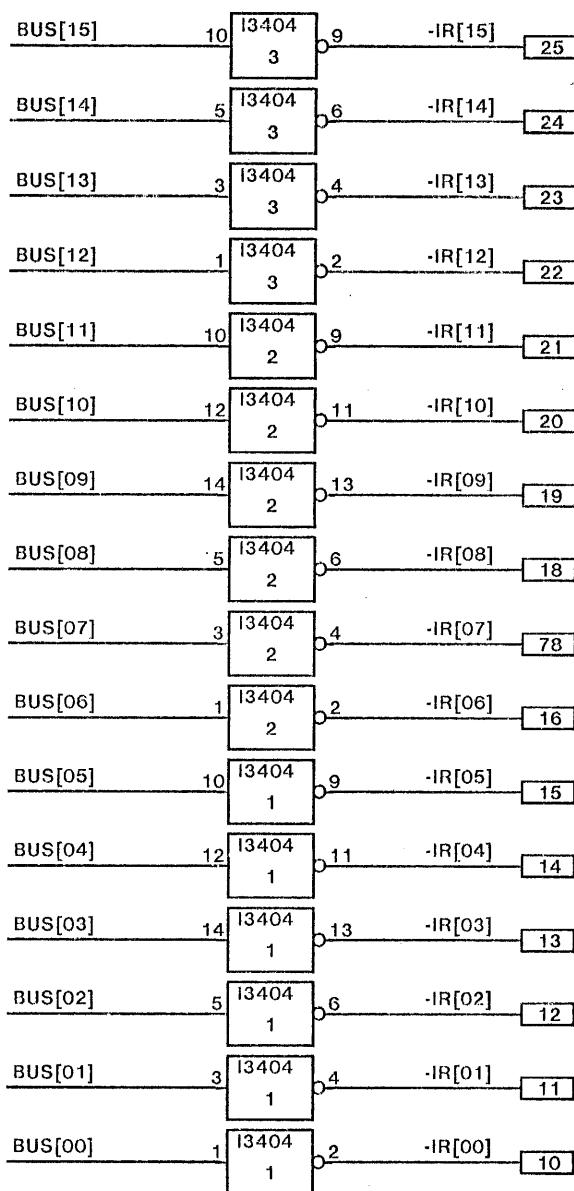
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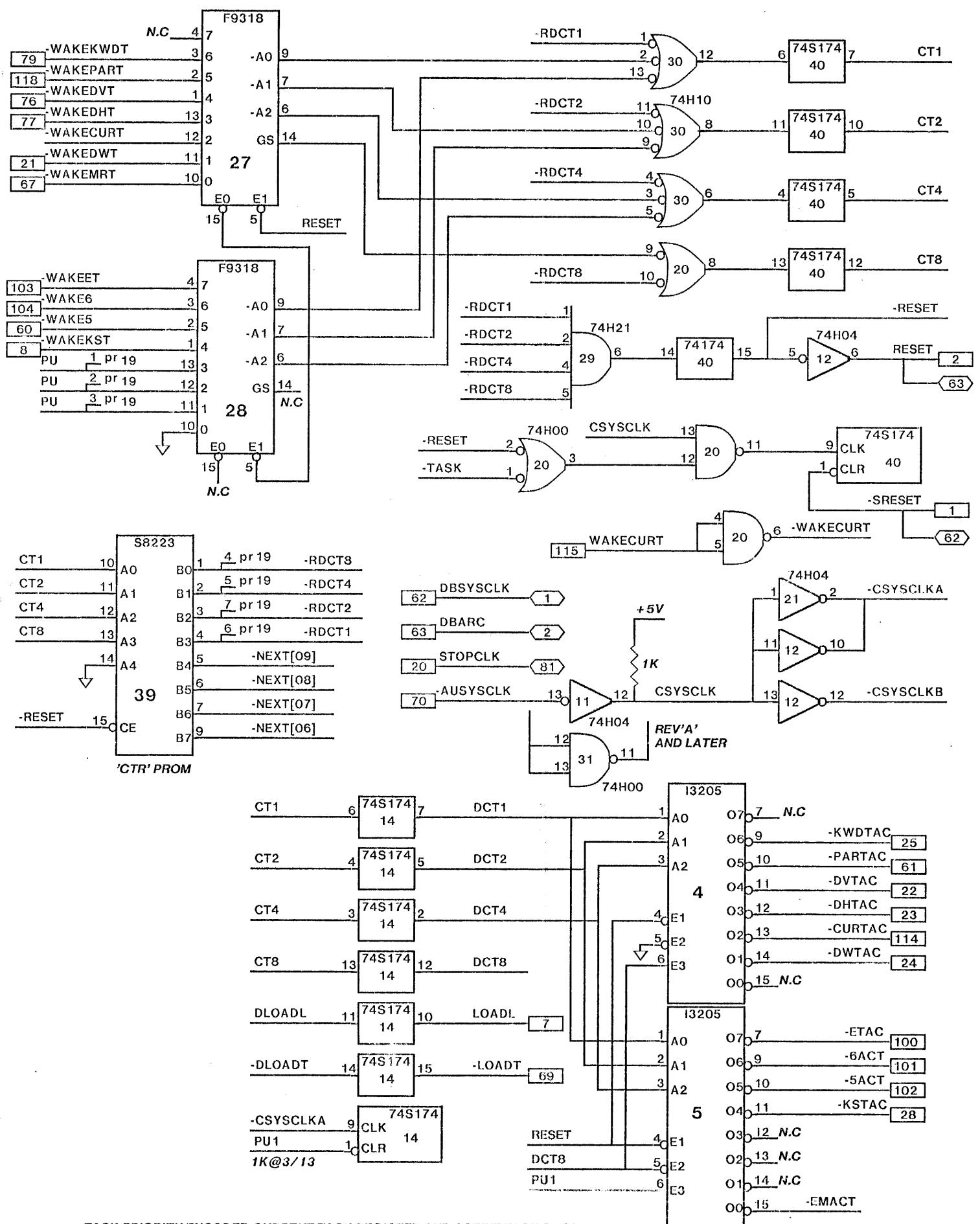


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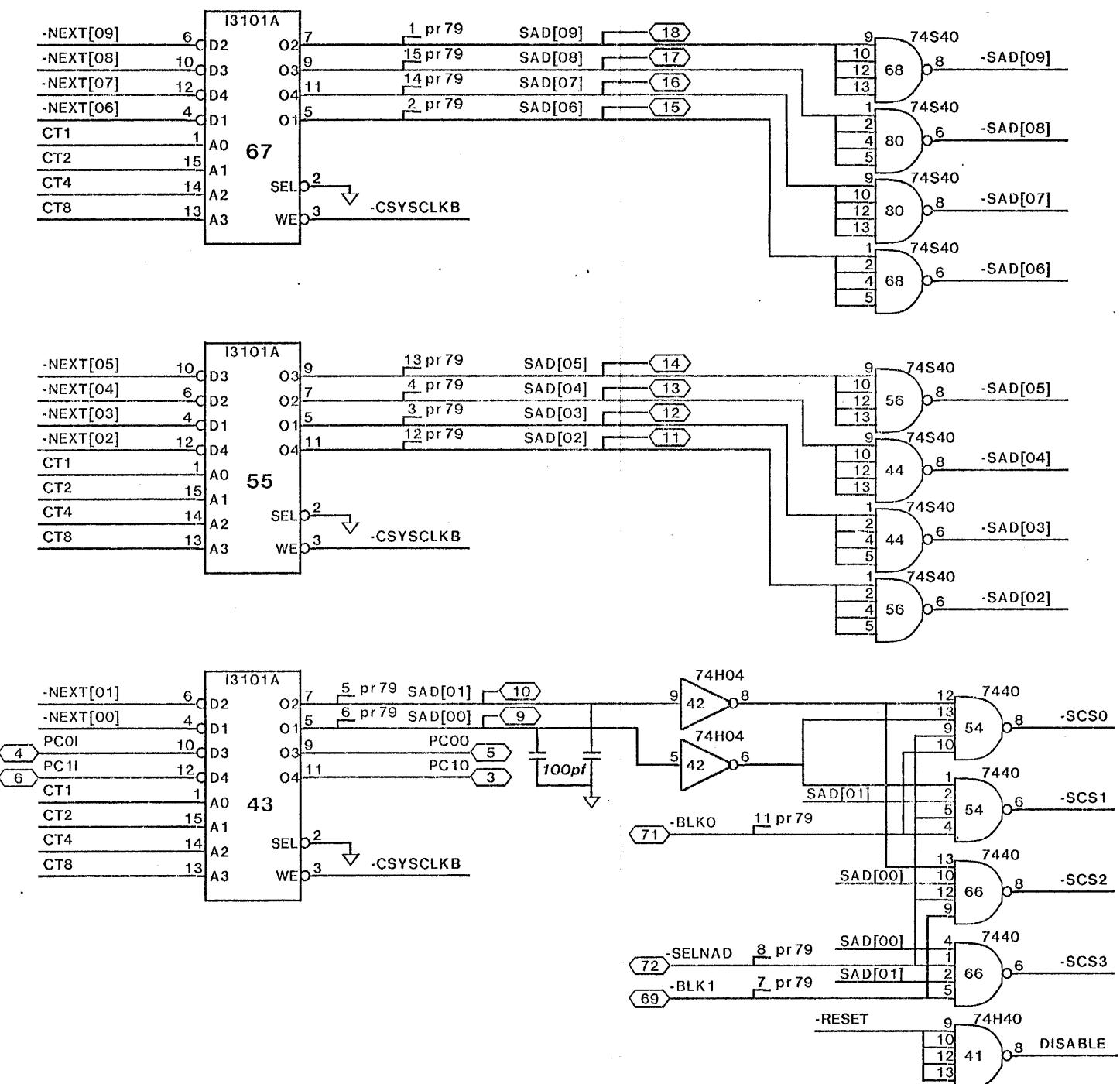
ALU Page 7



INSTRUCTION REGISTER



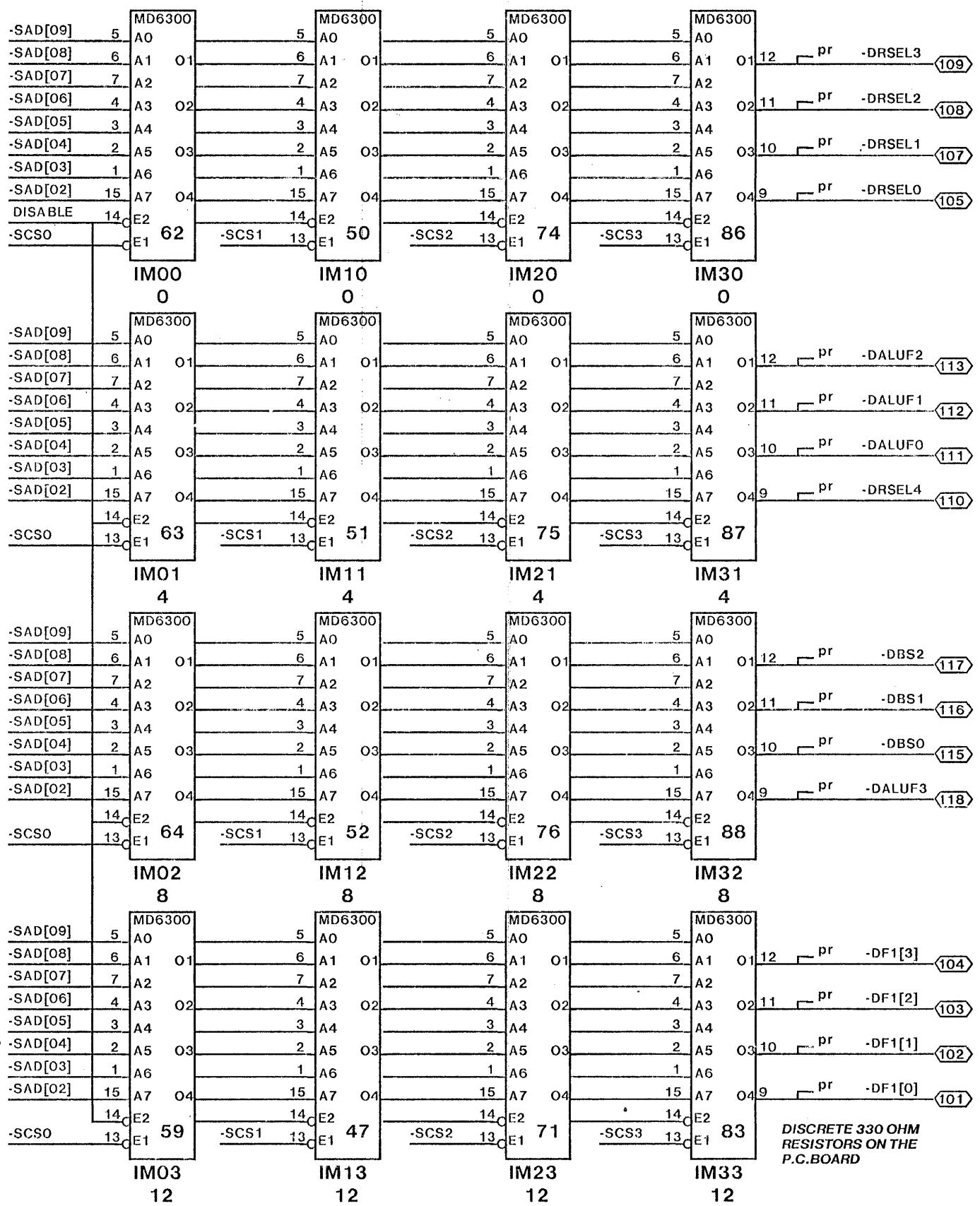
TASK PRIORITY ENCODER, CURRENT TASK REGISTER AND ACTIVE TASK DECODER

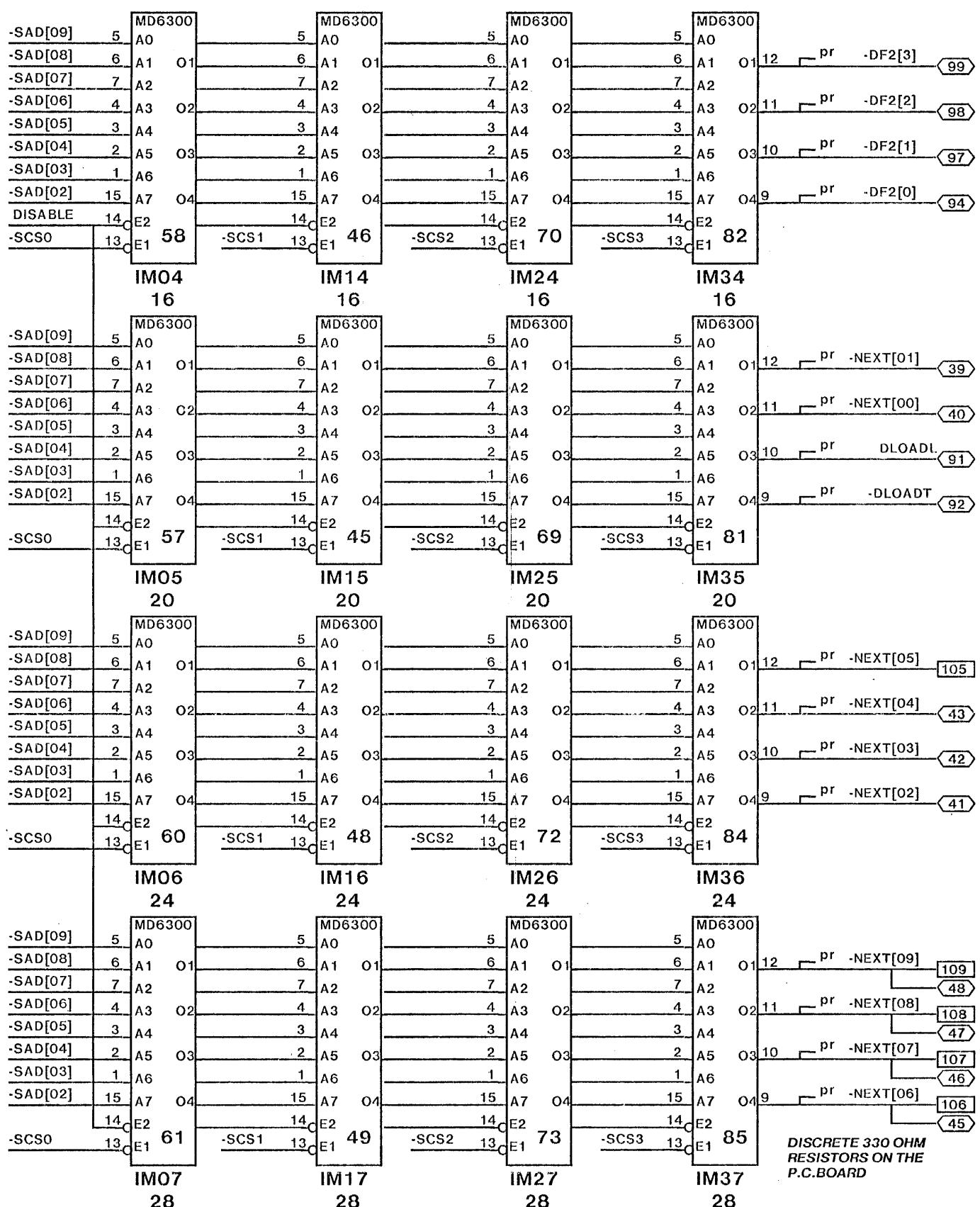


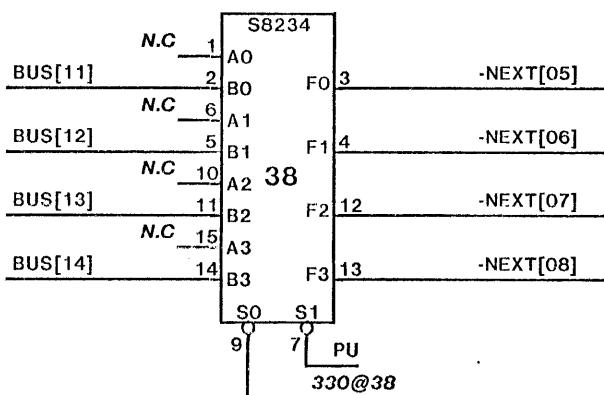
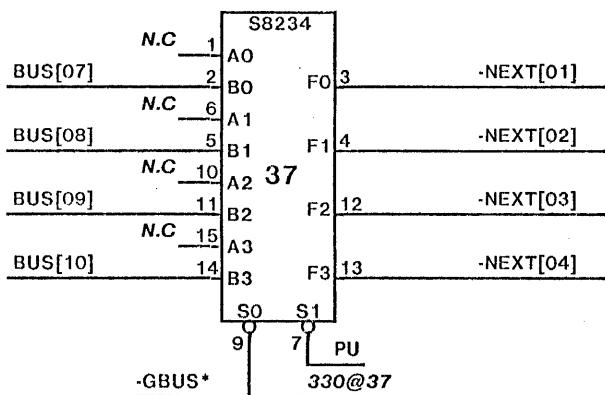
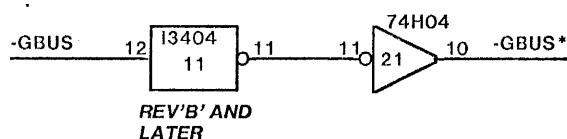
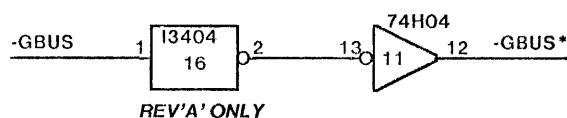
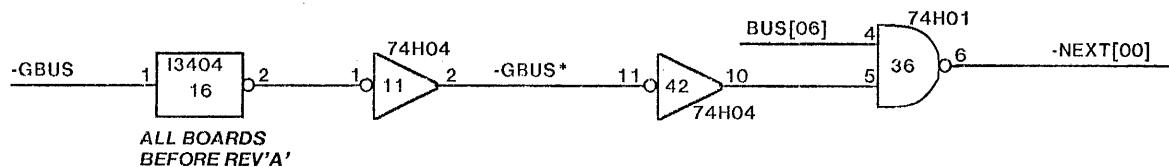
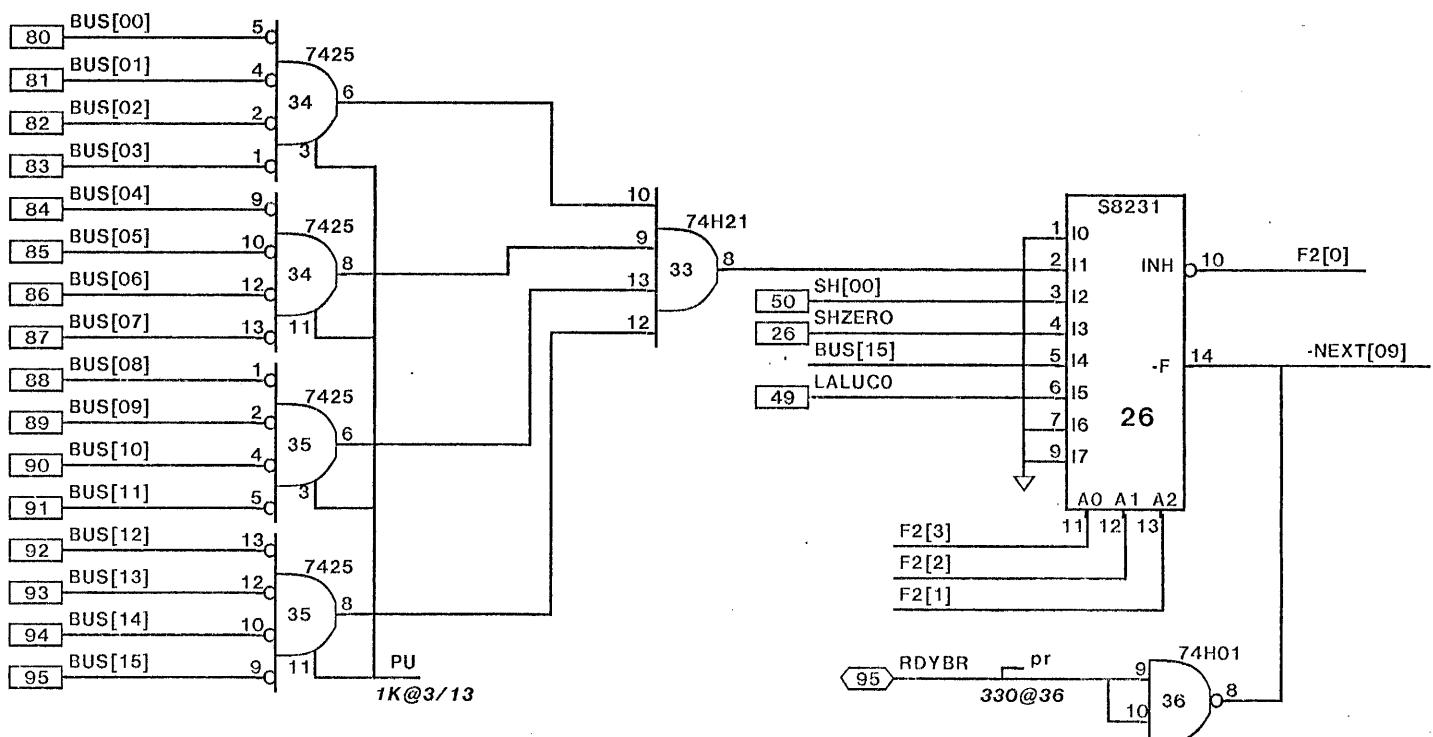
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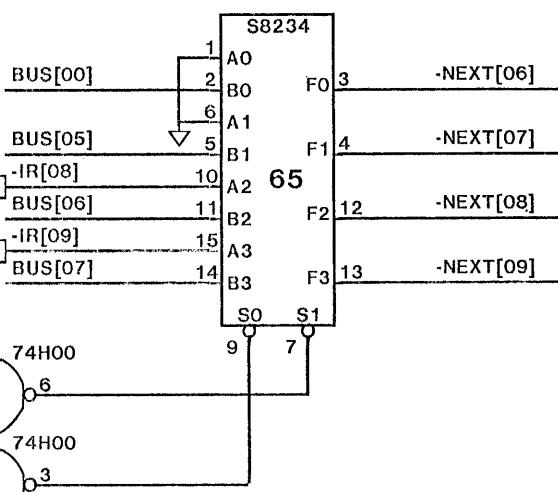
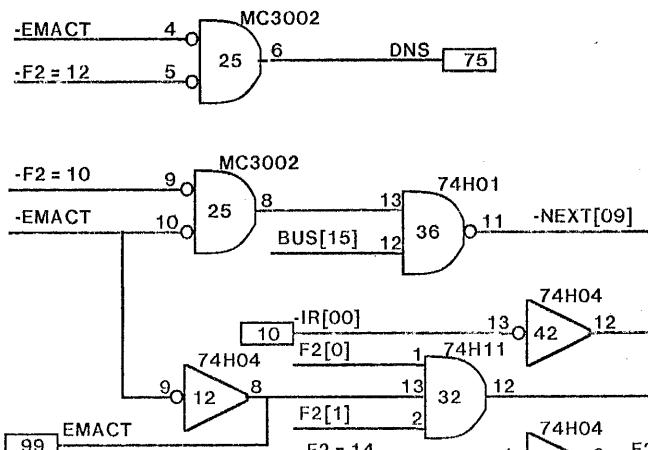
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CONTROL Page 3

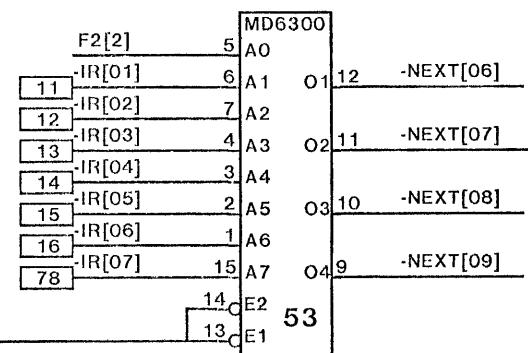
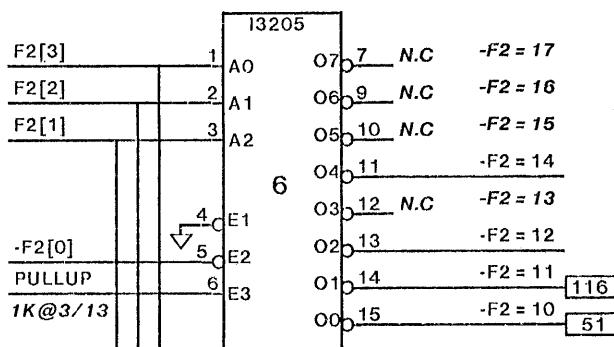




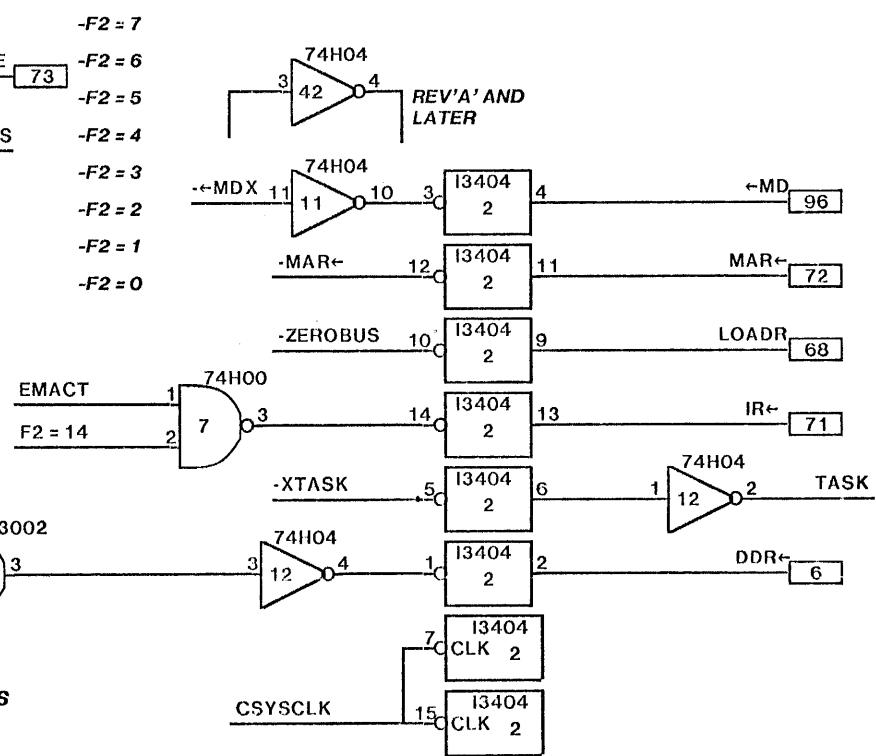
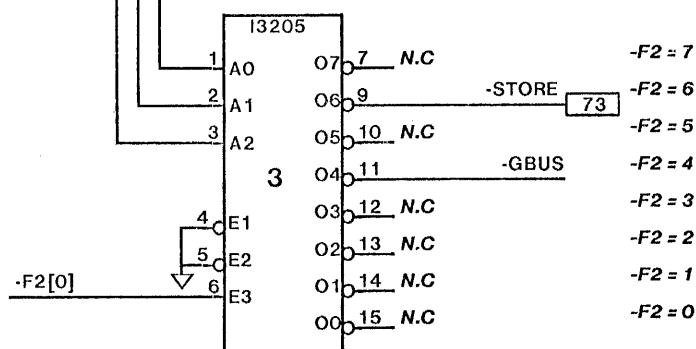




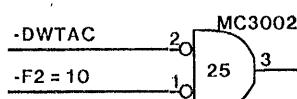
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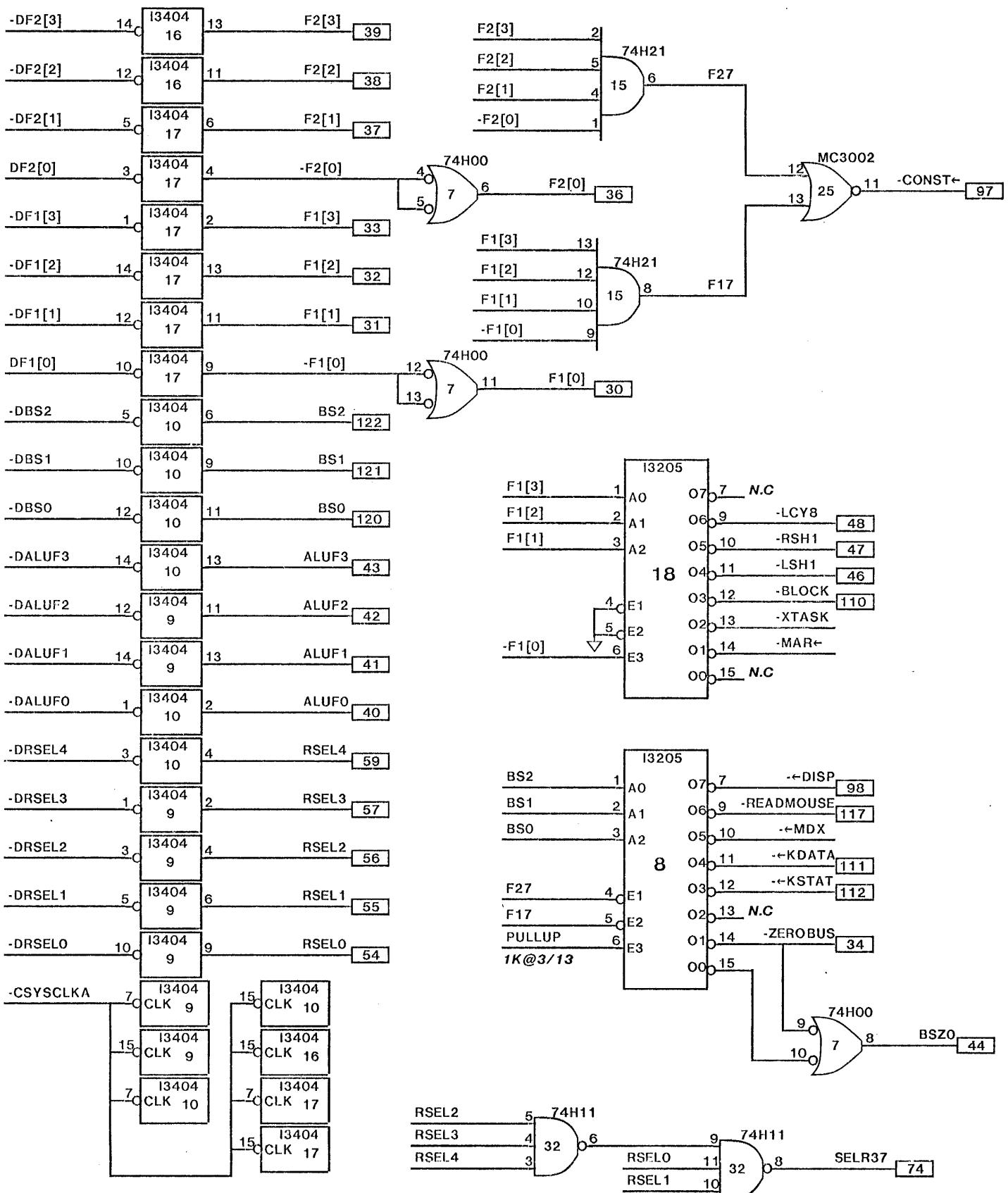


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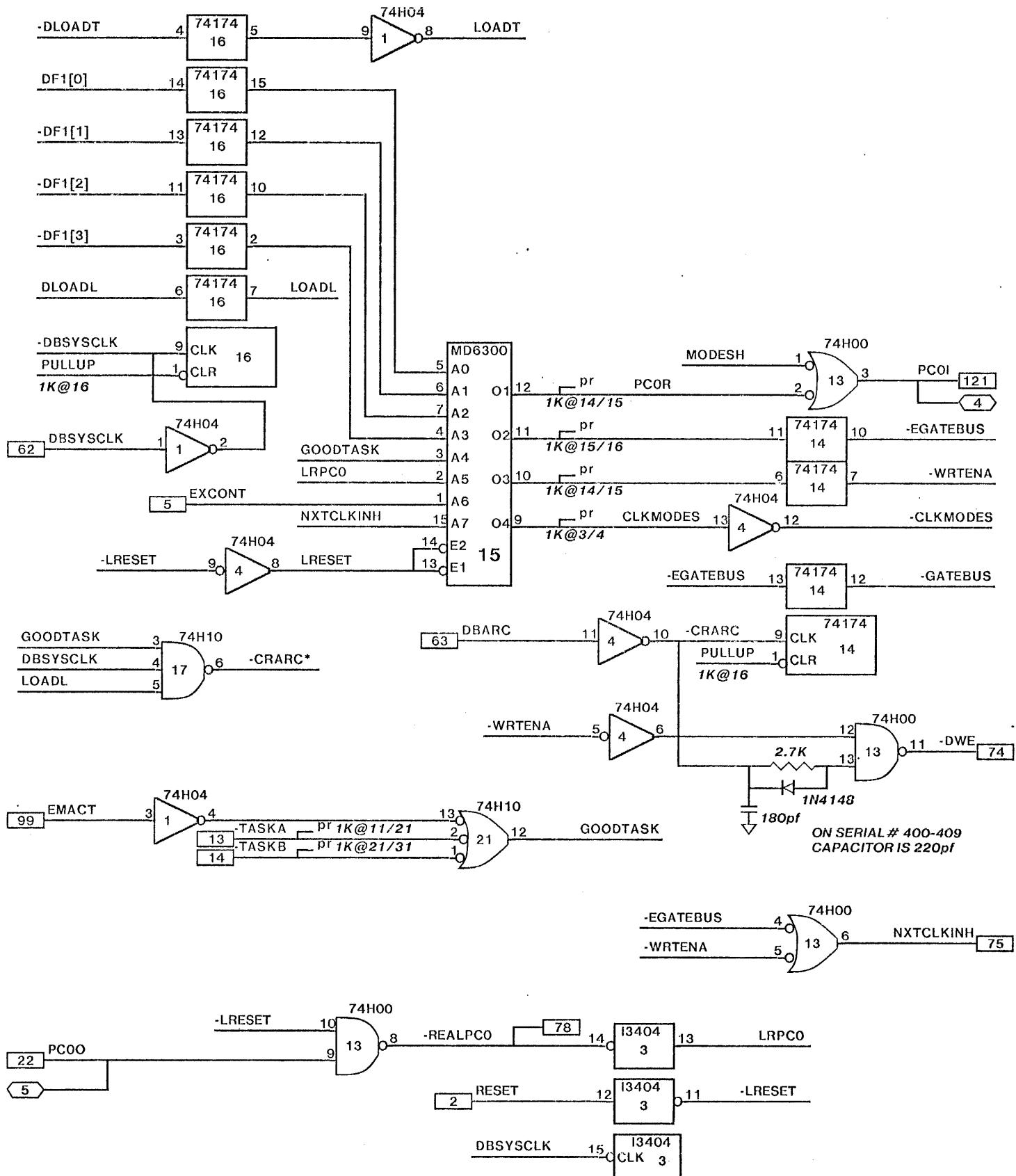


F2 DECODE AND MISCELLANEOUS

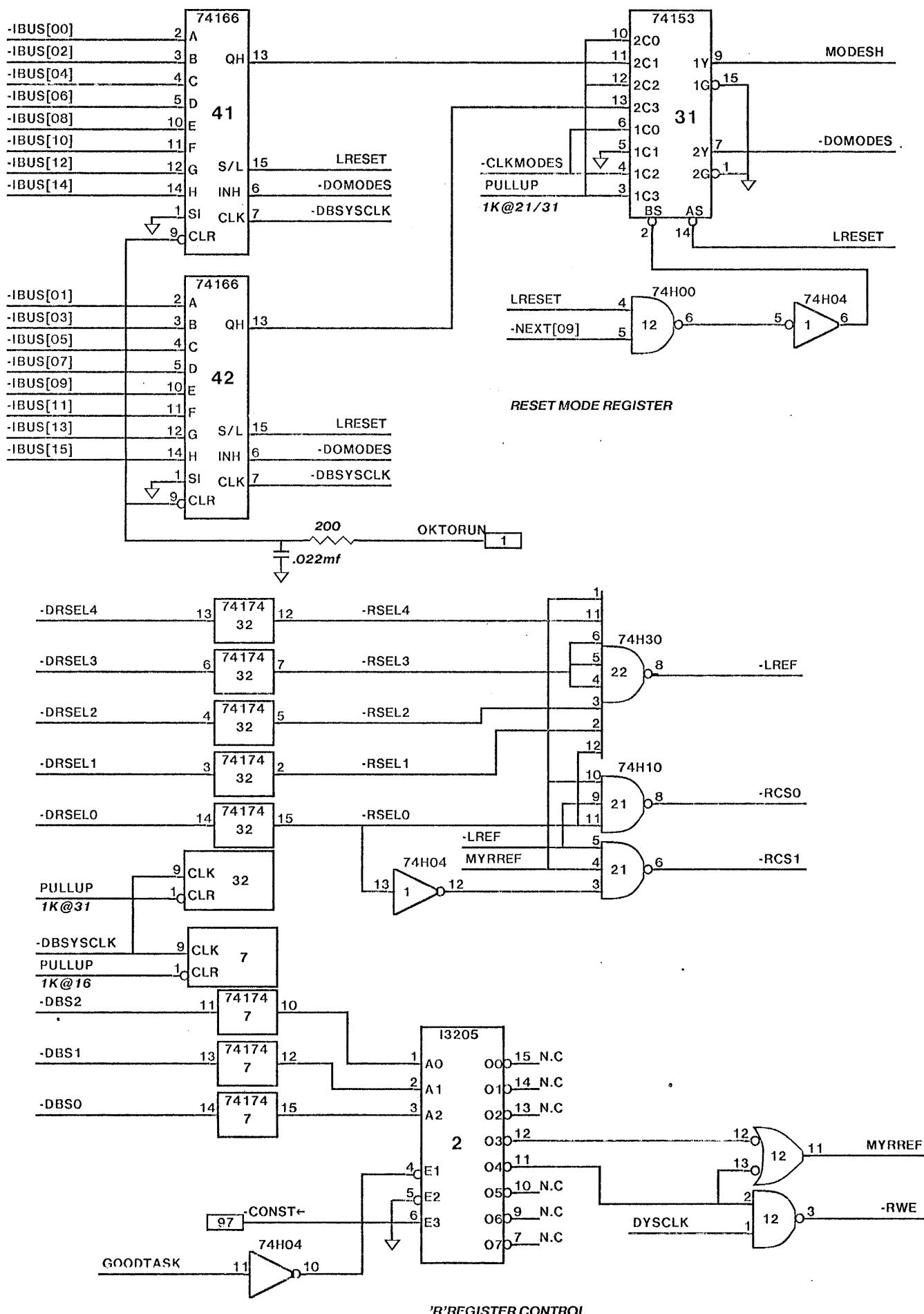


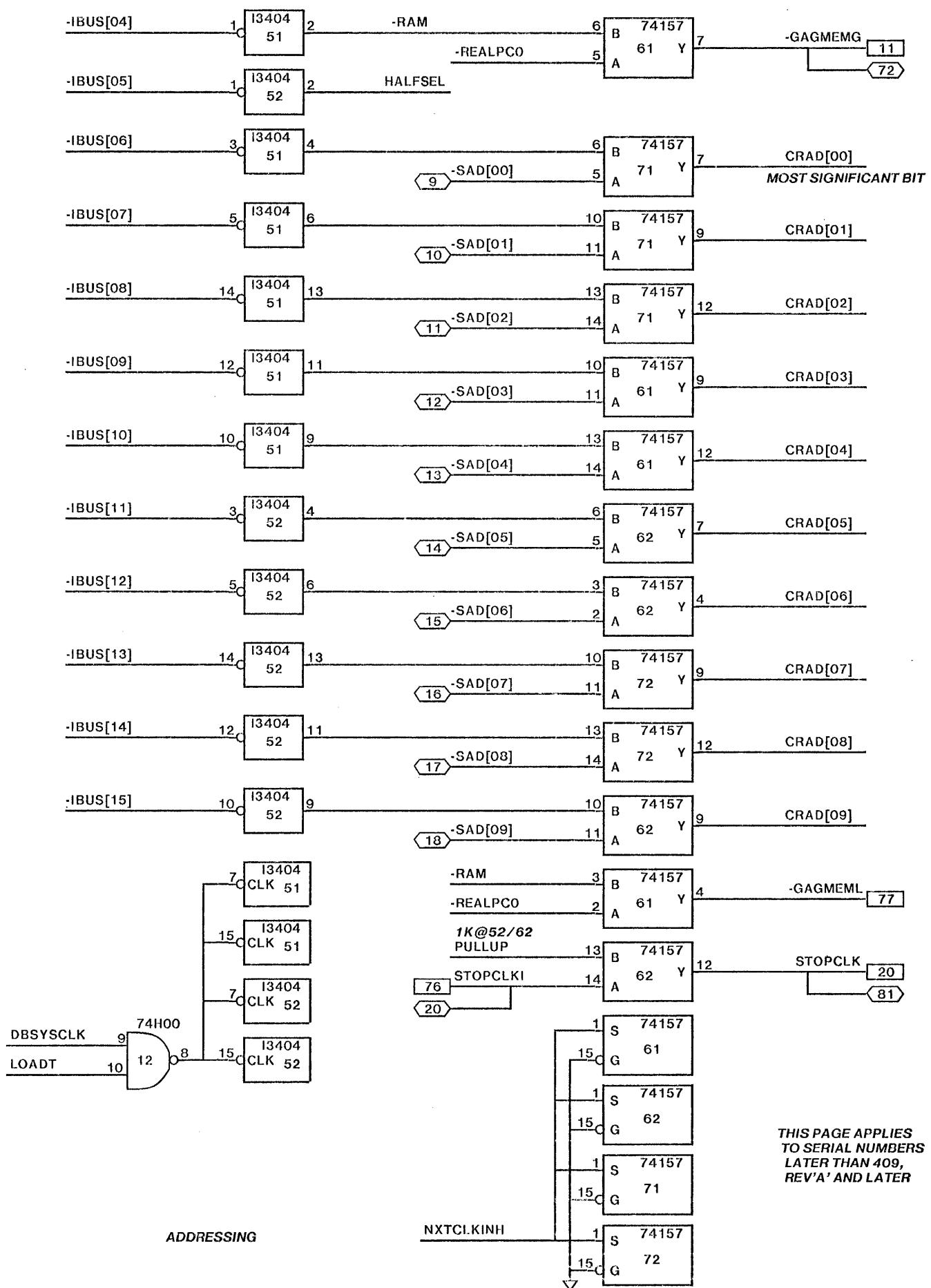


MIR, F1 AND DECODE



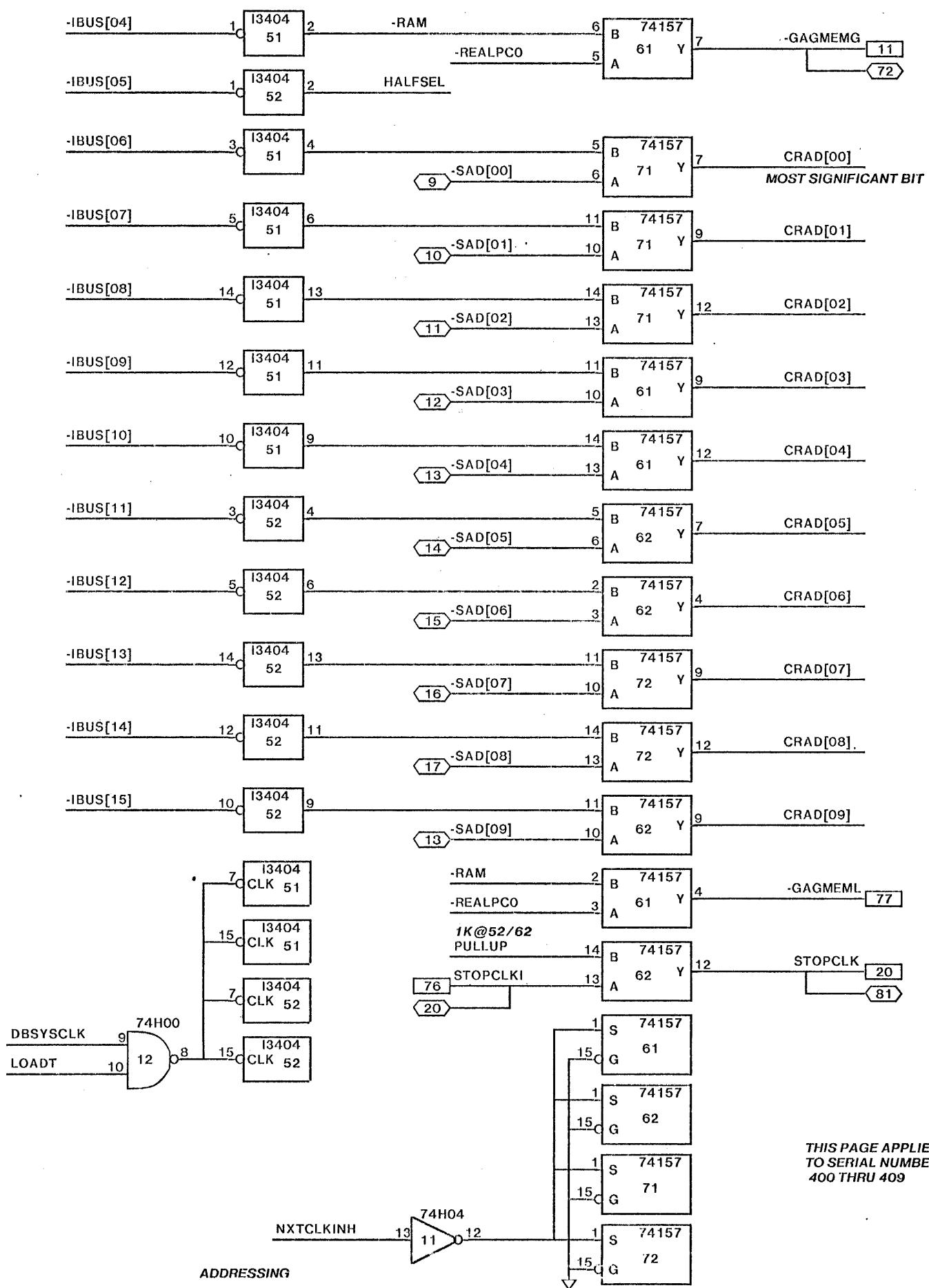
CONTROL SIGNALS

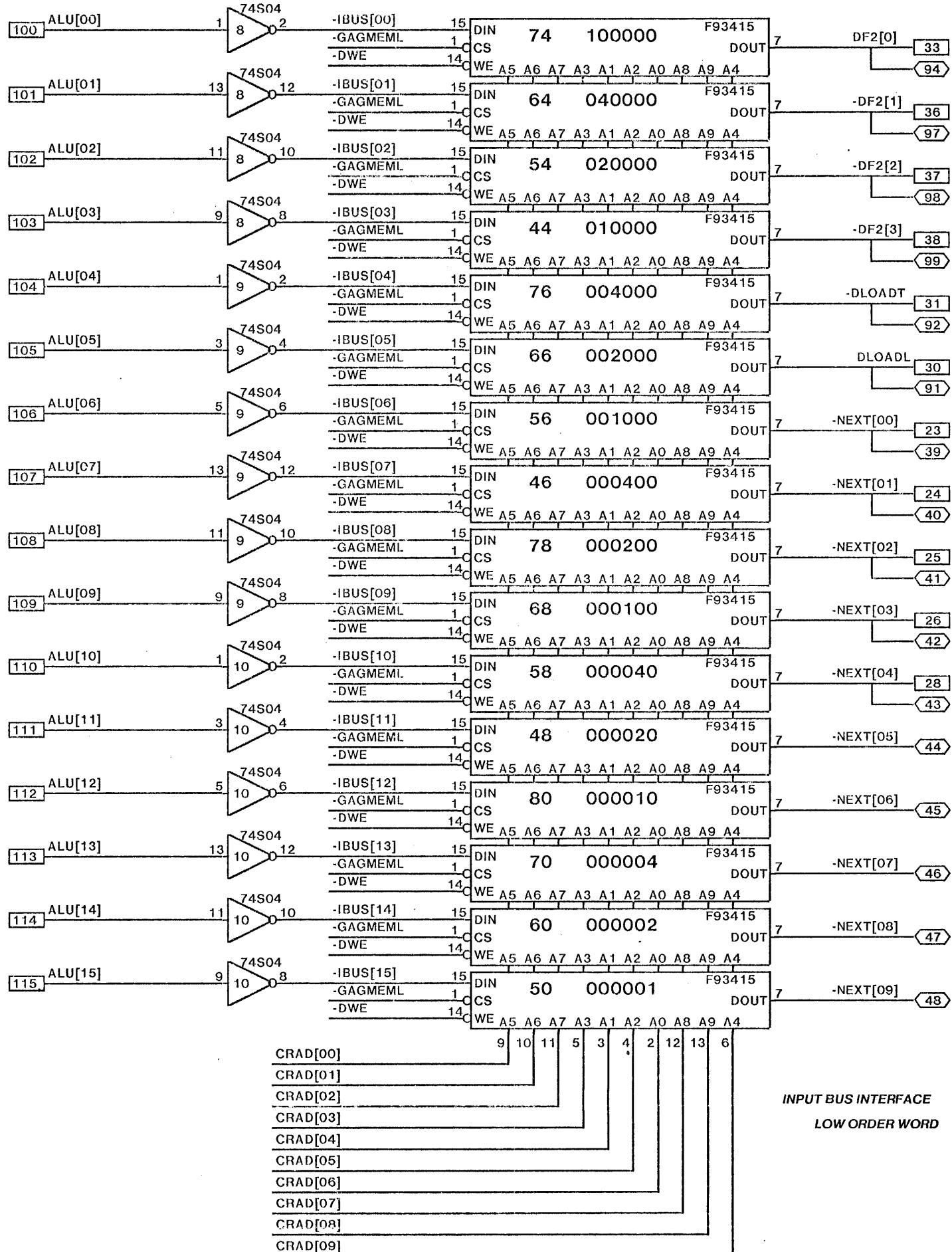




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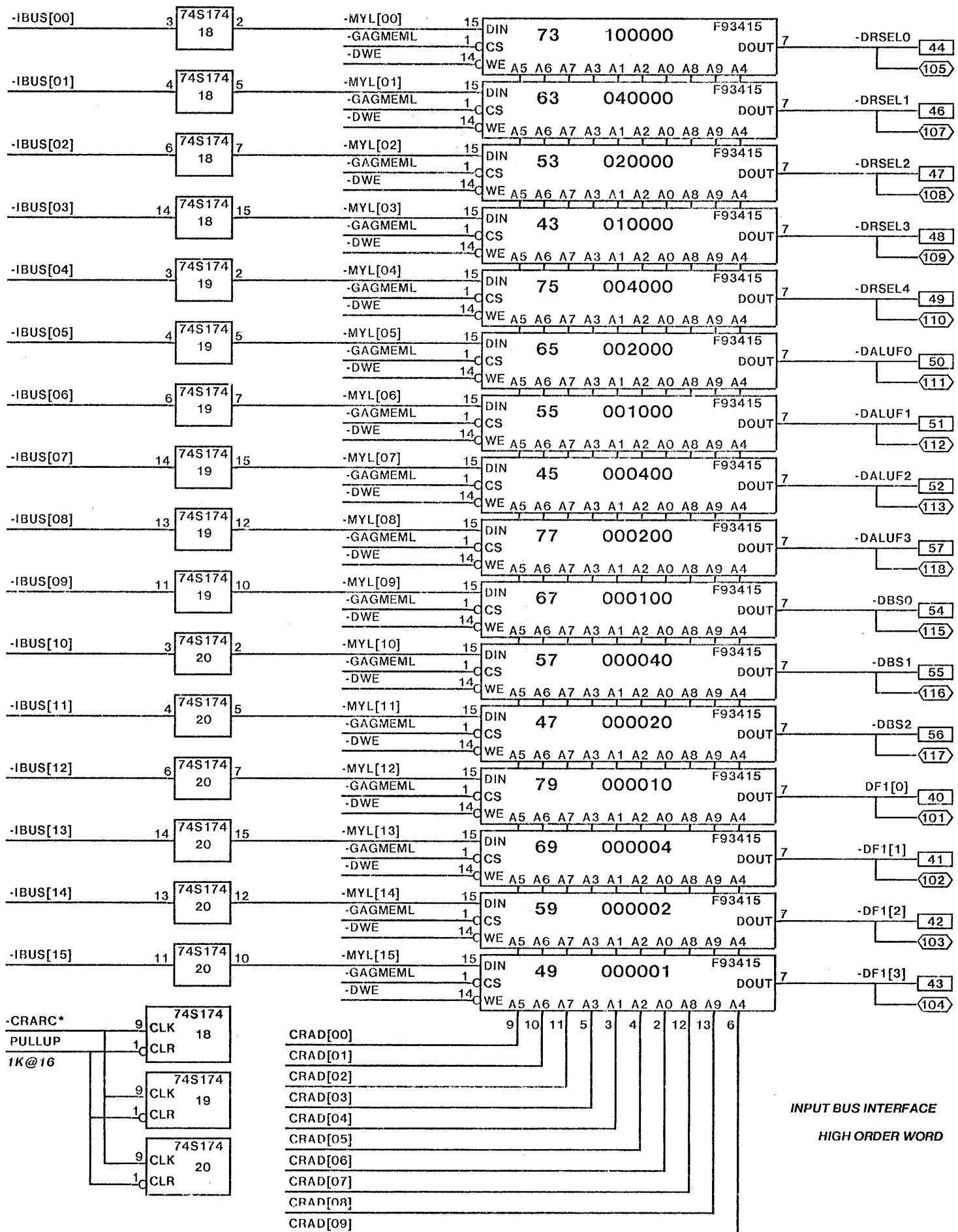
CRAM Page 3





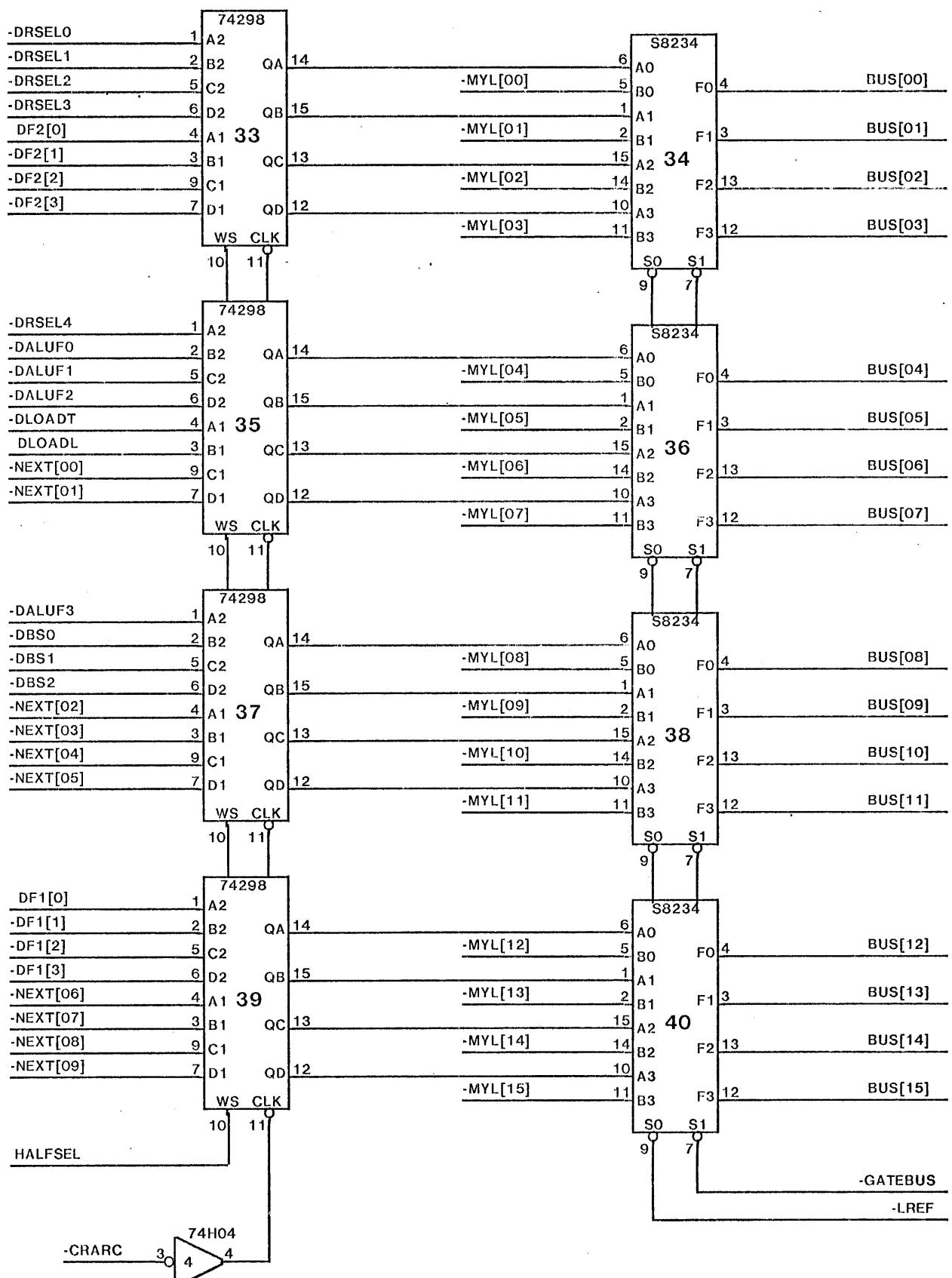
28 JAN 77

CRAM Page 5

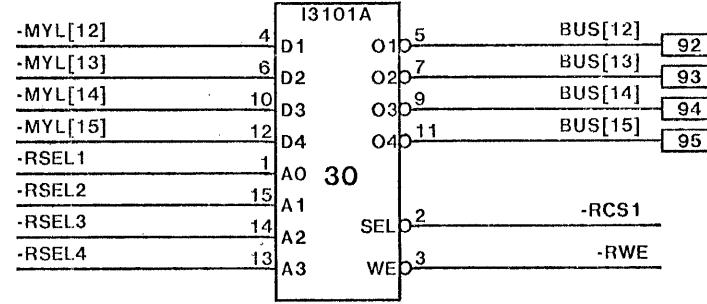
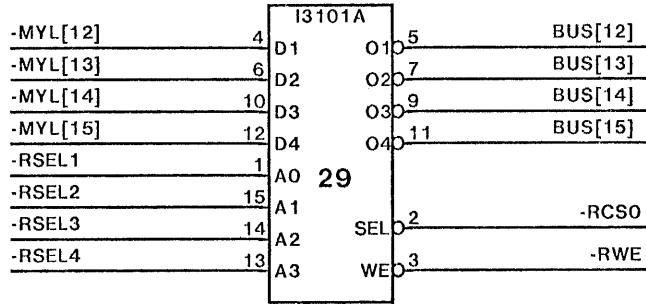
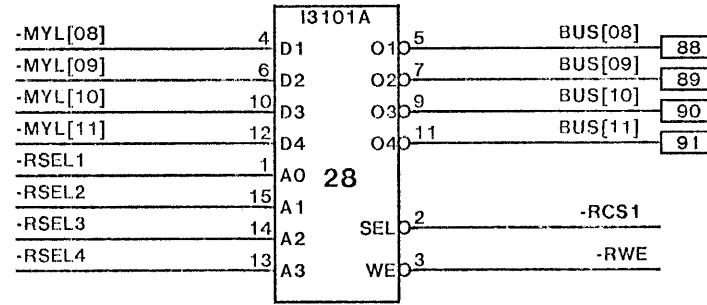
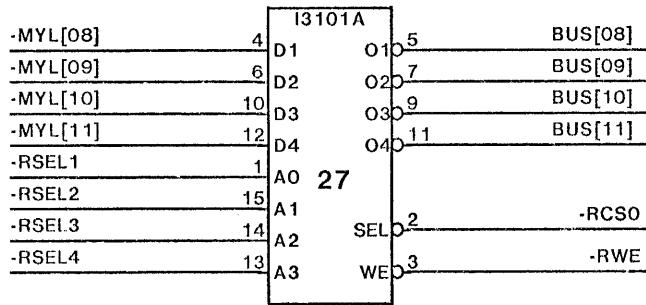
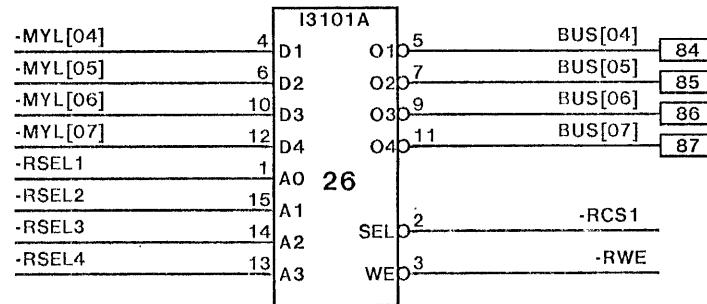
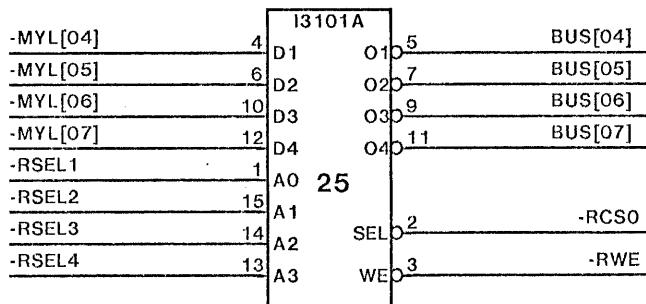
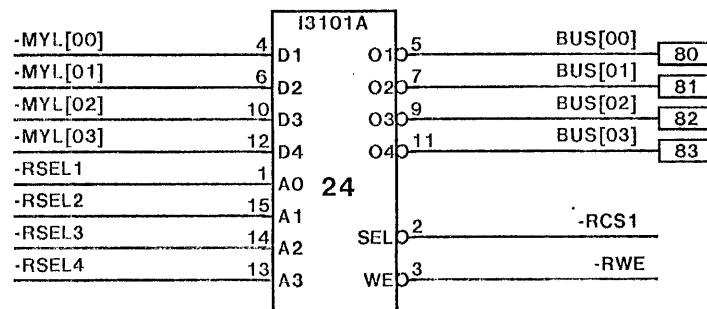
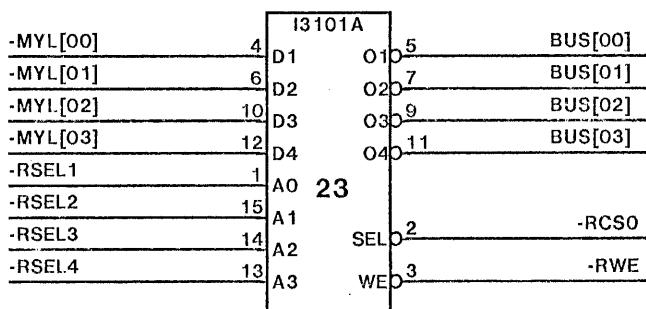


INPUT BUS INTERFACE

HIGH ORDER WORD

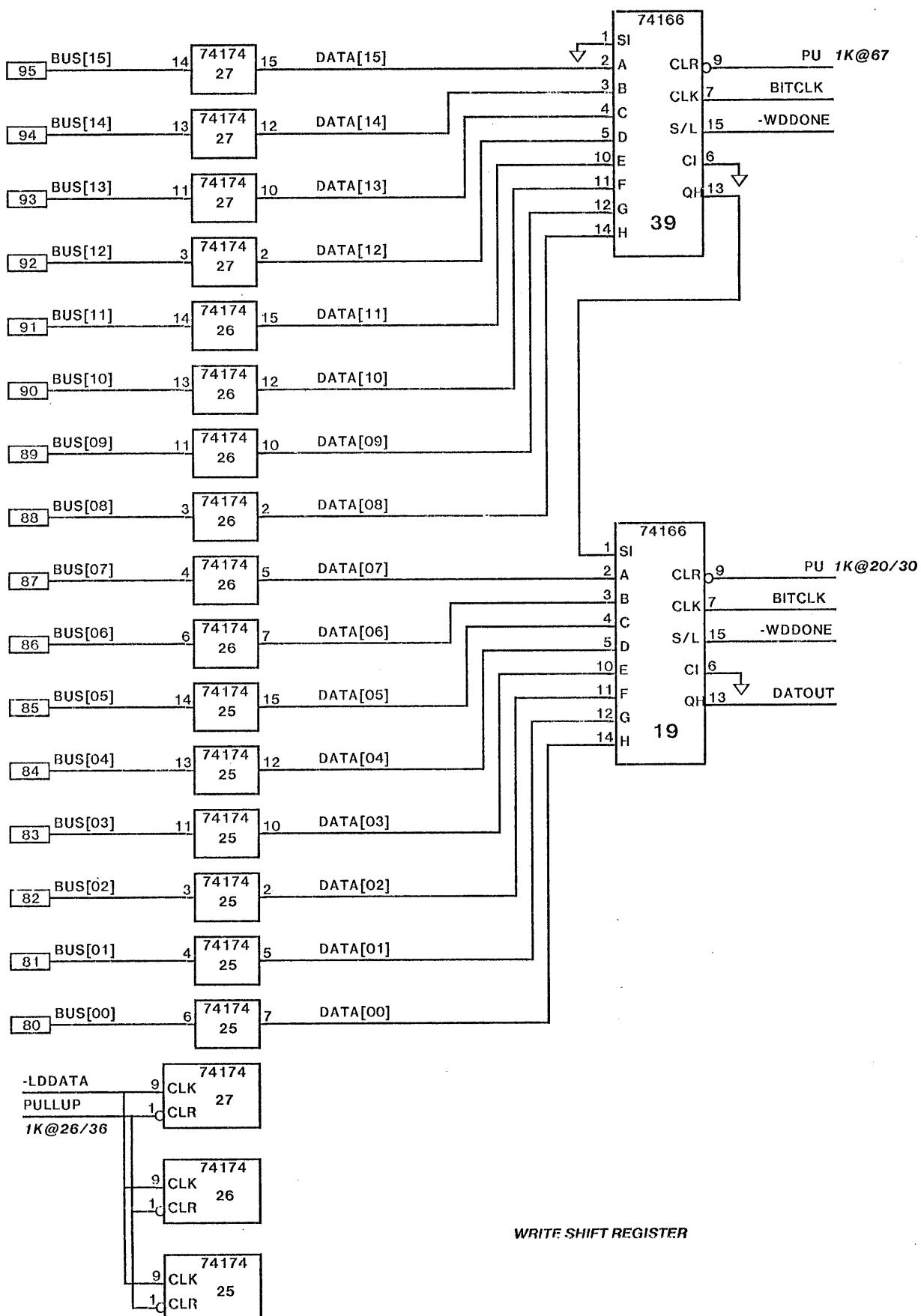


OUTPUT BUS INTERFACE

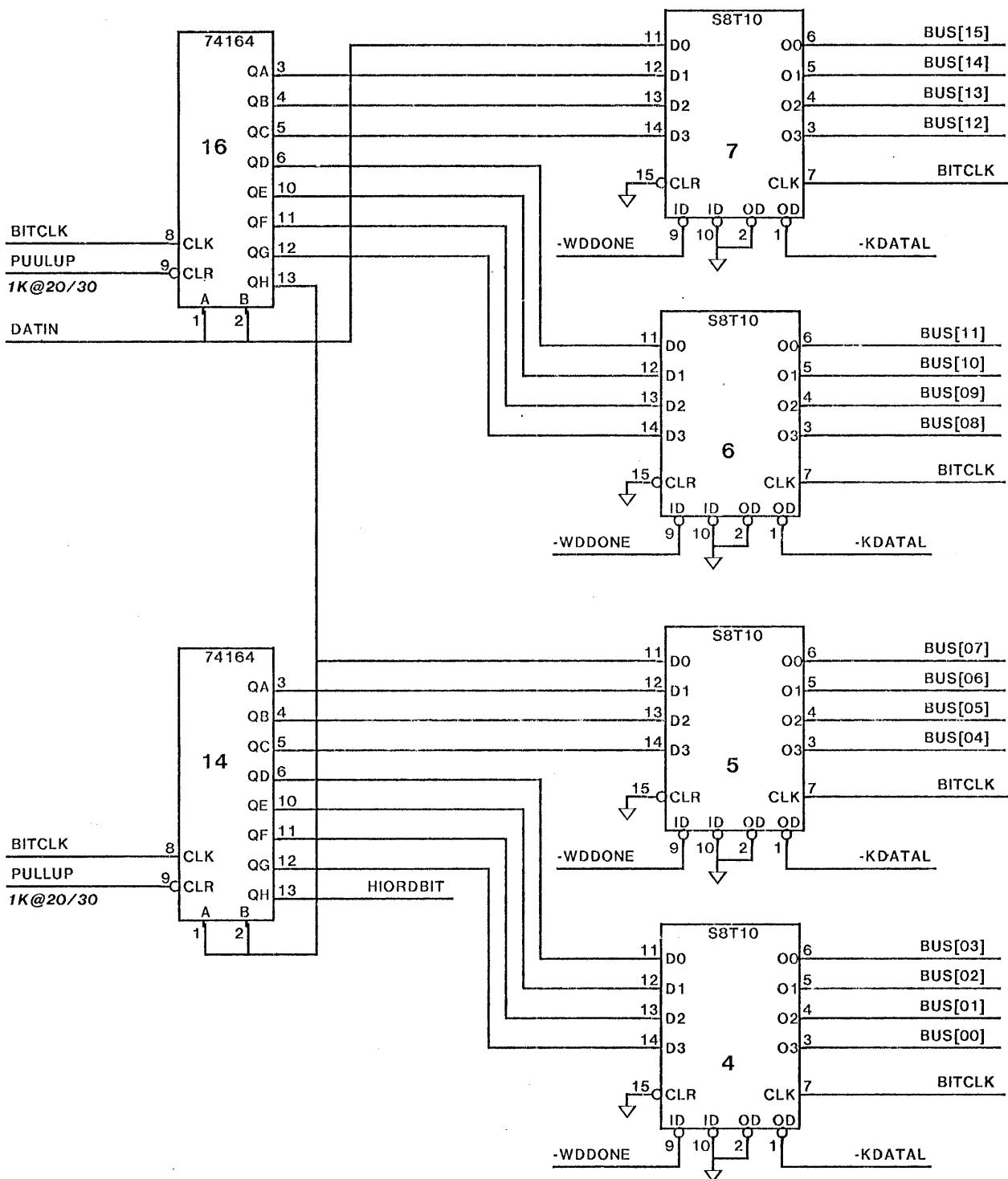


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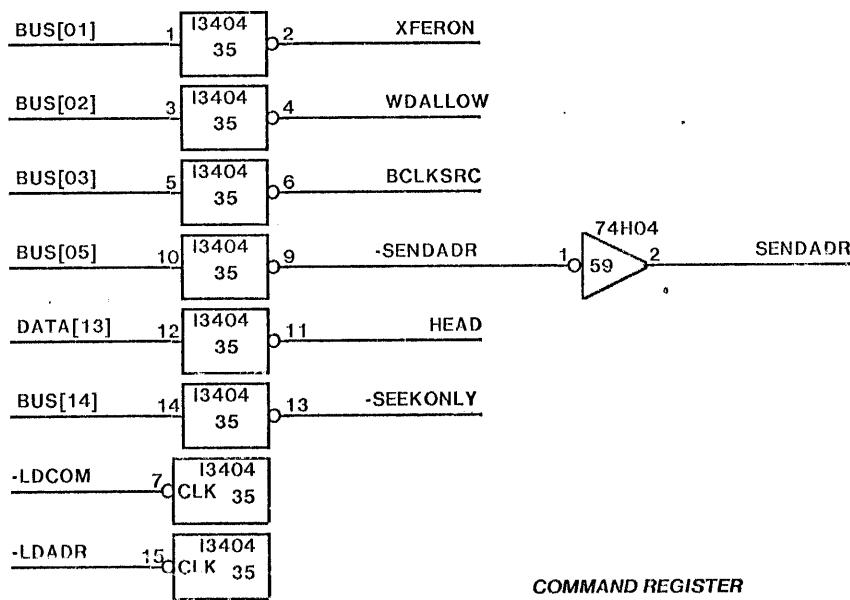
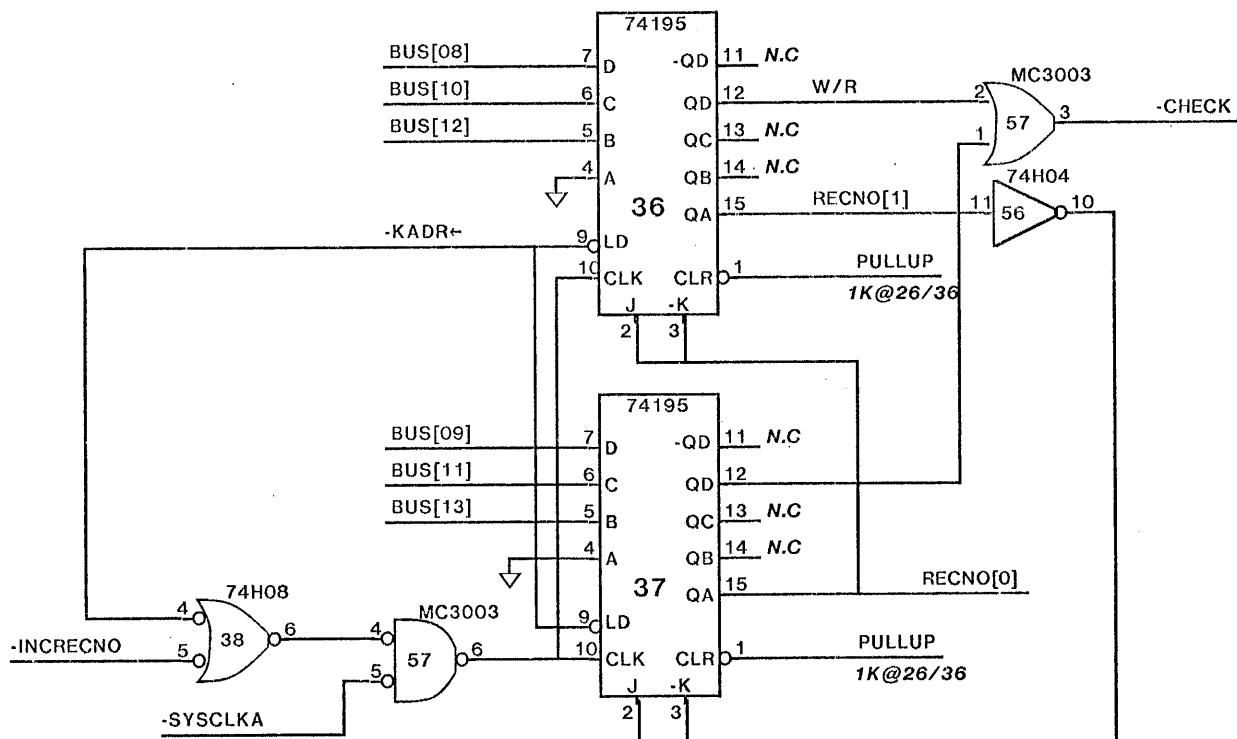
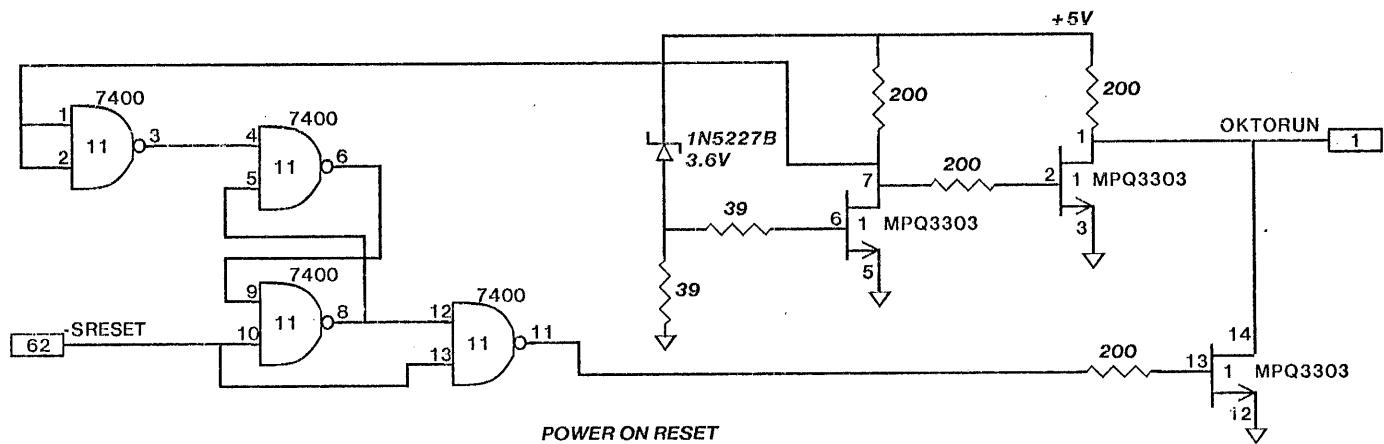
(60-77)

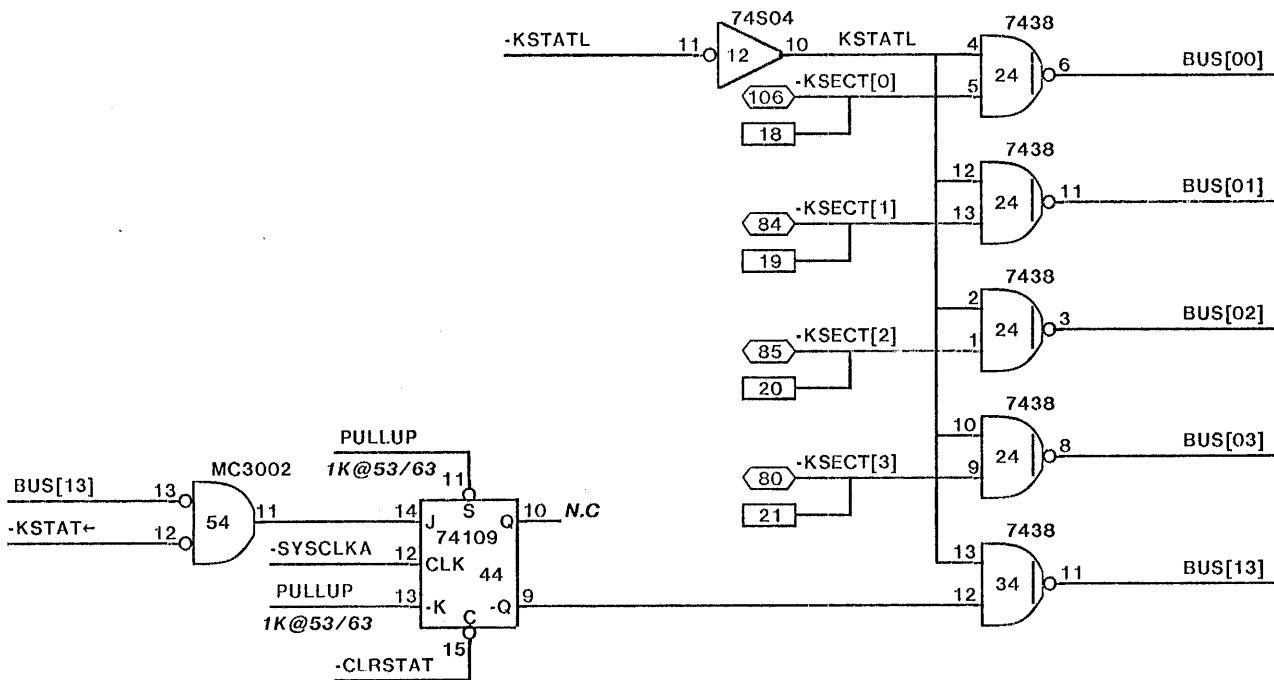
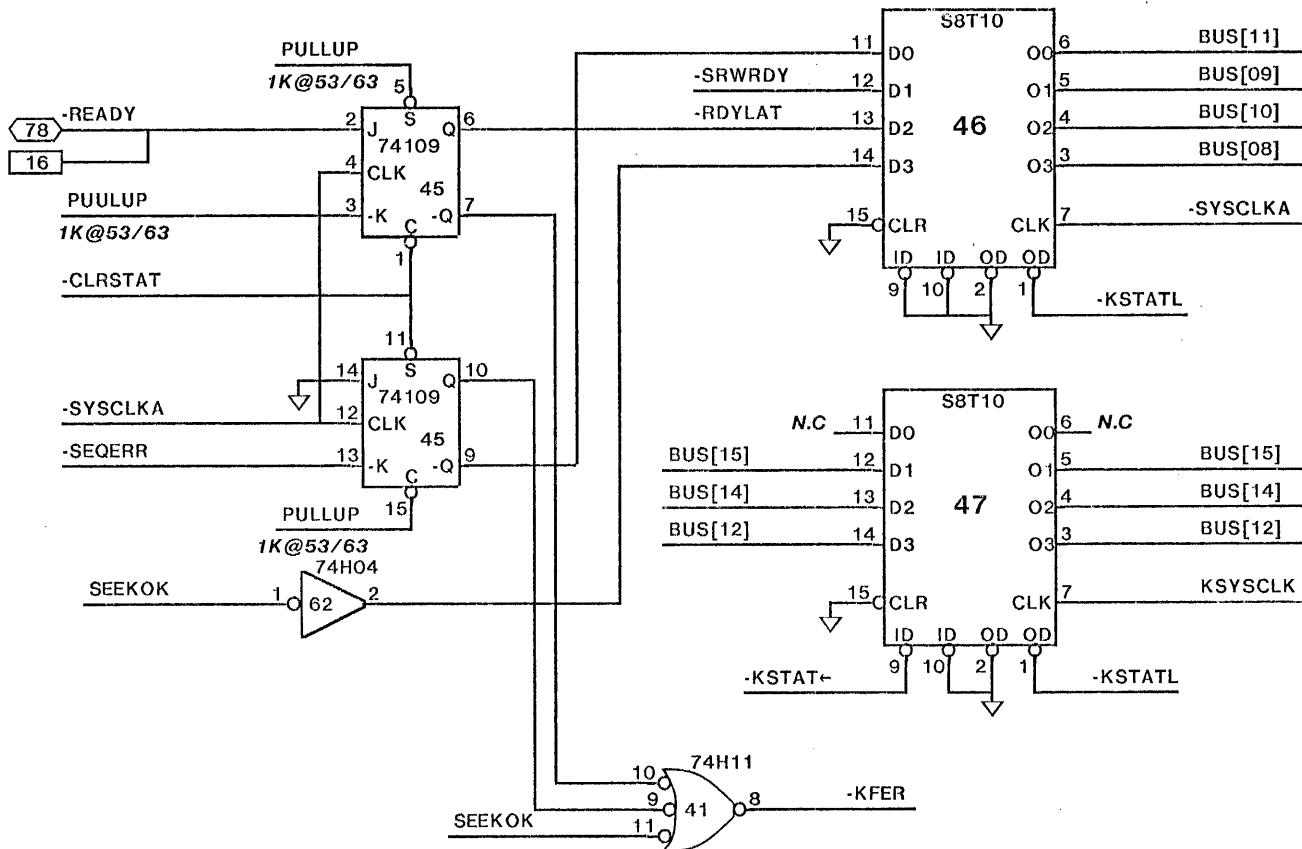


WRITE SHIFT REGISTER

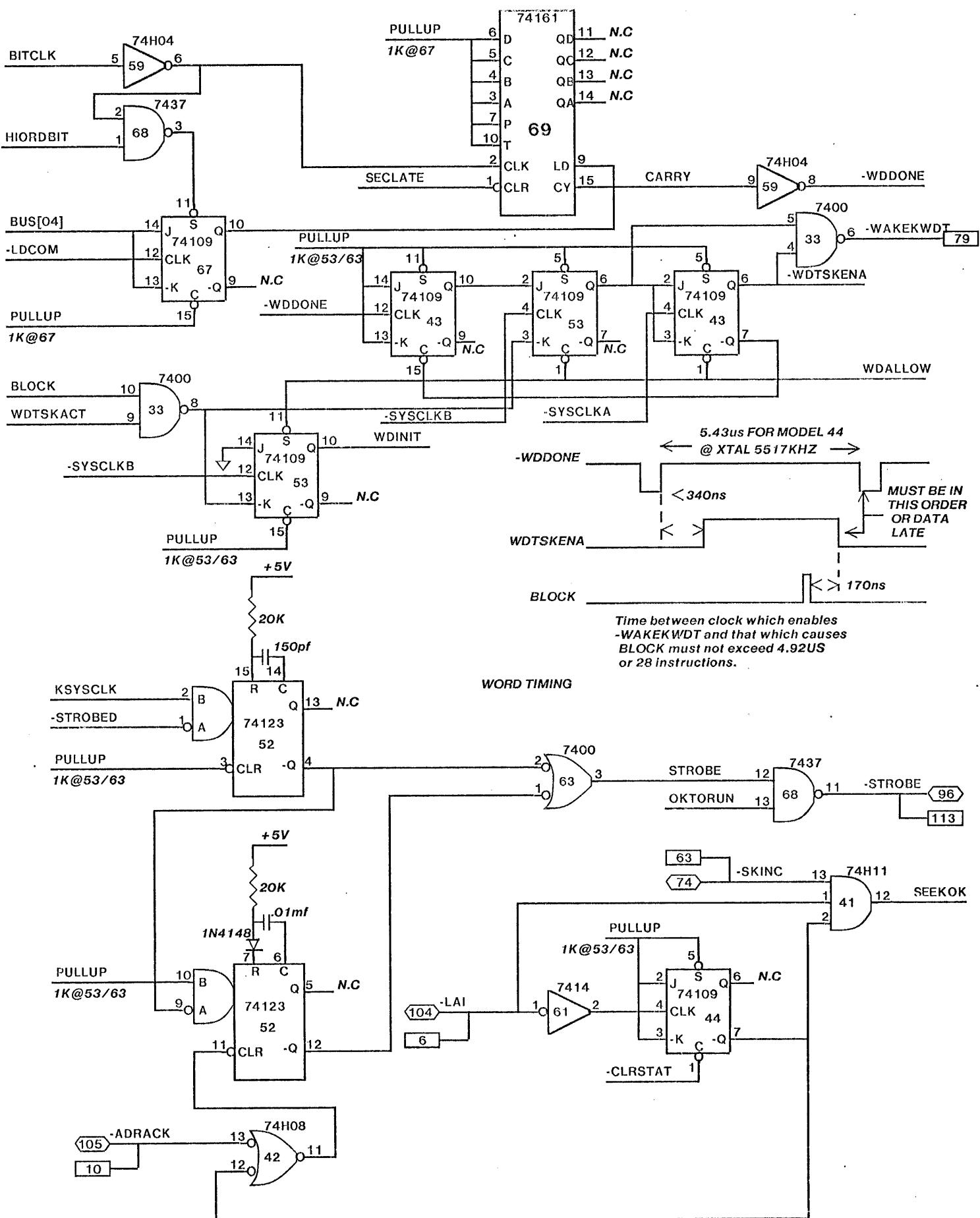


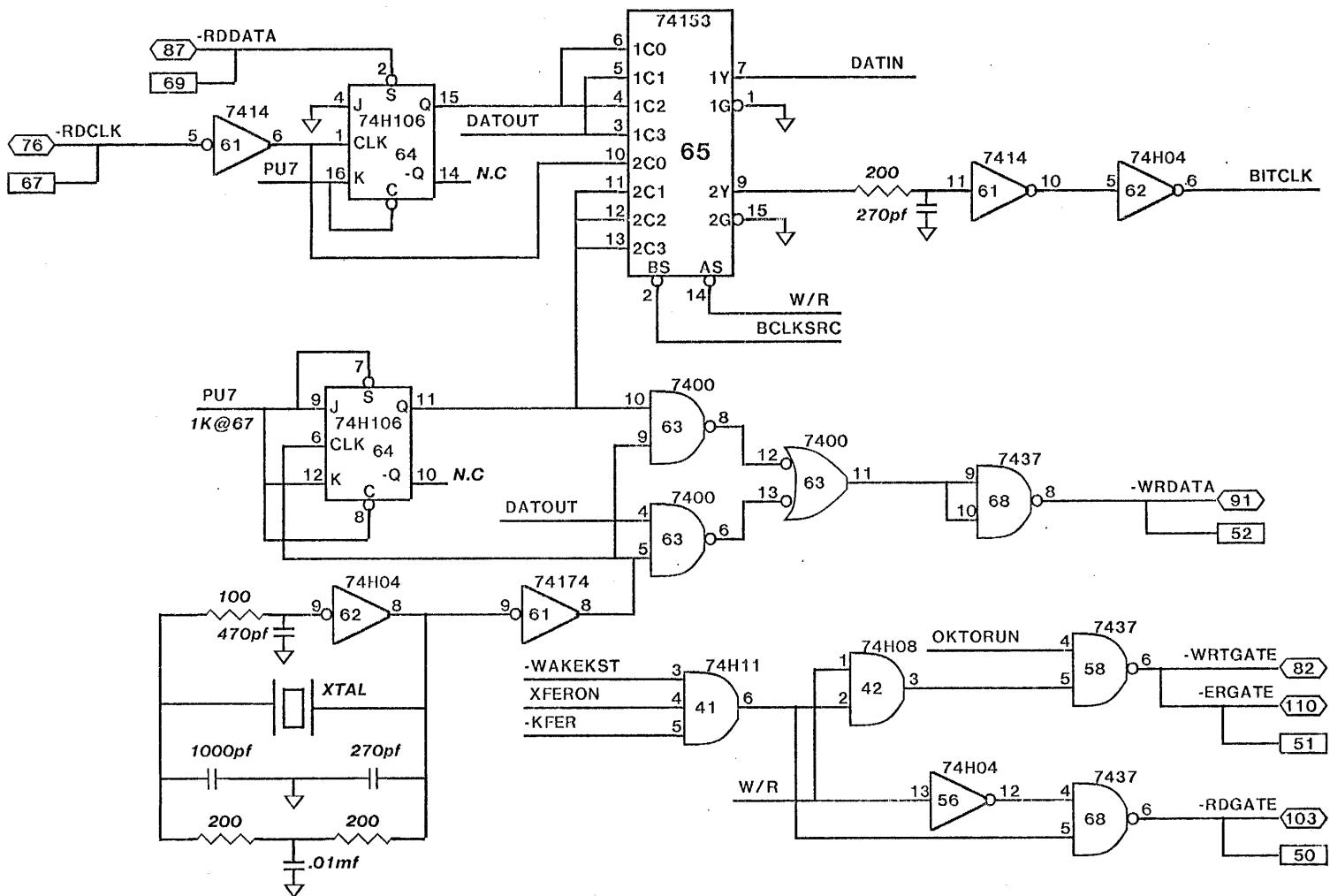
READ SHIFT REGISTER





STATUS



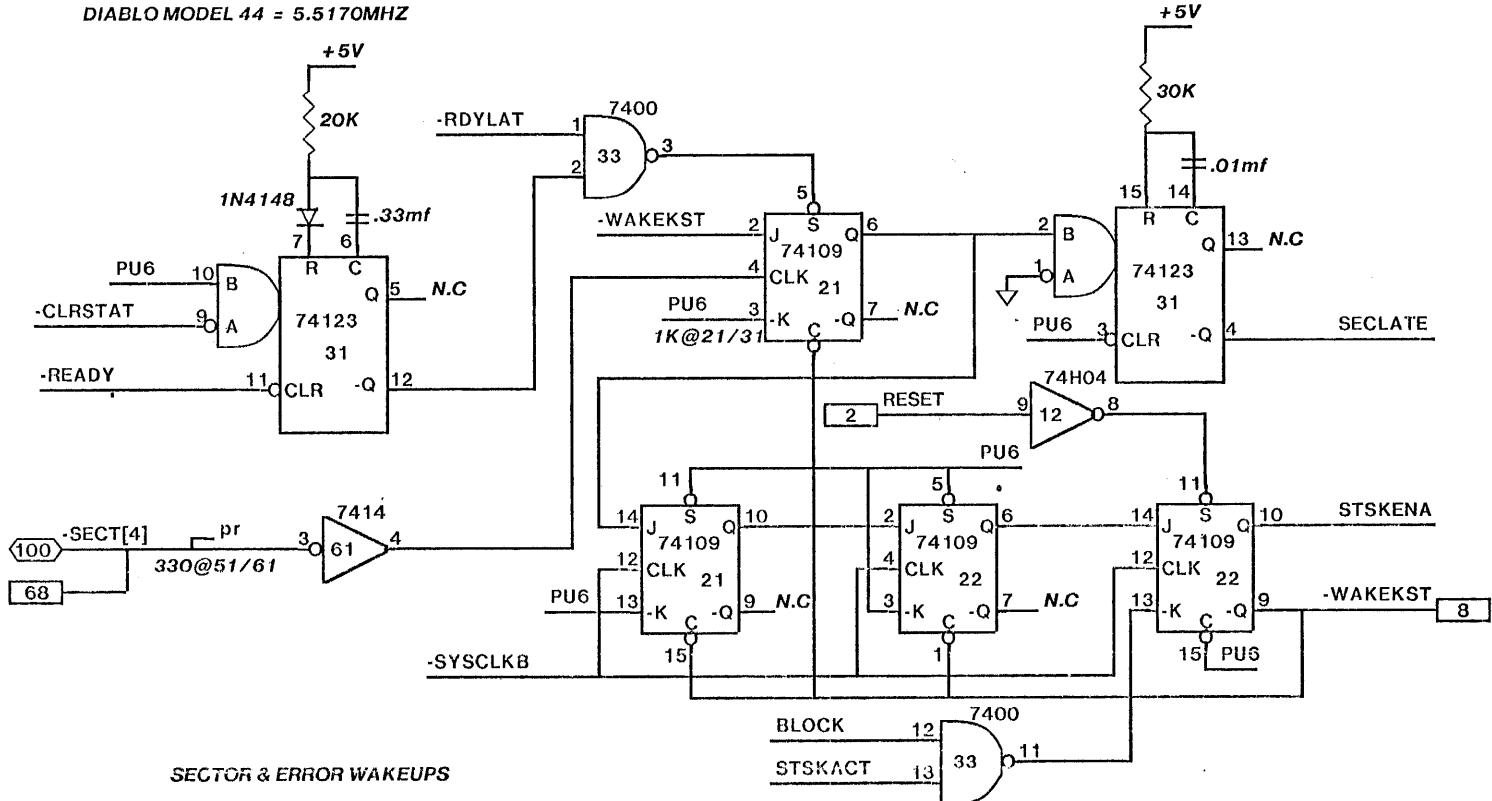


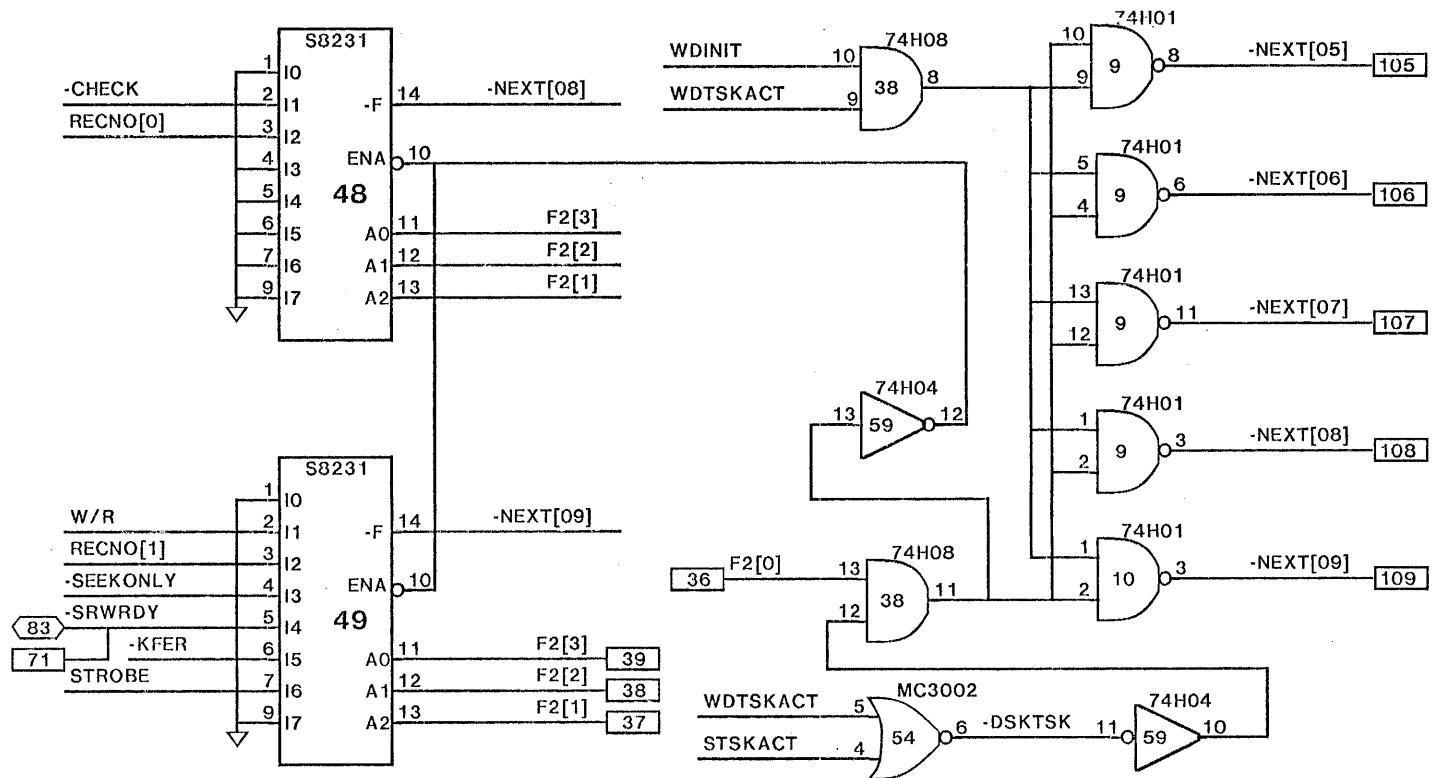
CRYSTAL FREQUENCY IS DISK DEPENDENT

DIABLO MODEL 31 = 3.3333MHZ

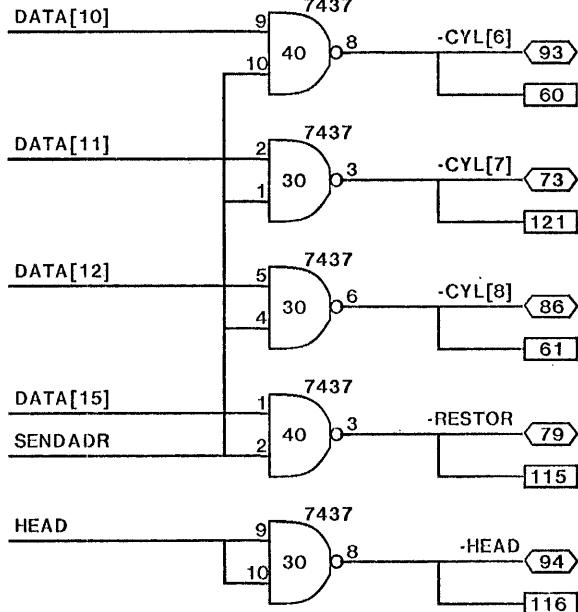
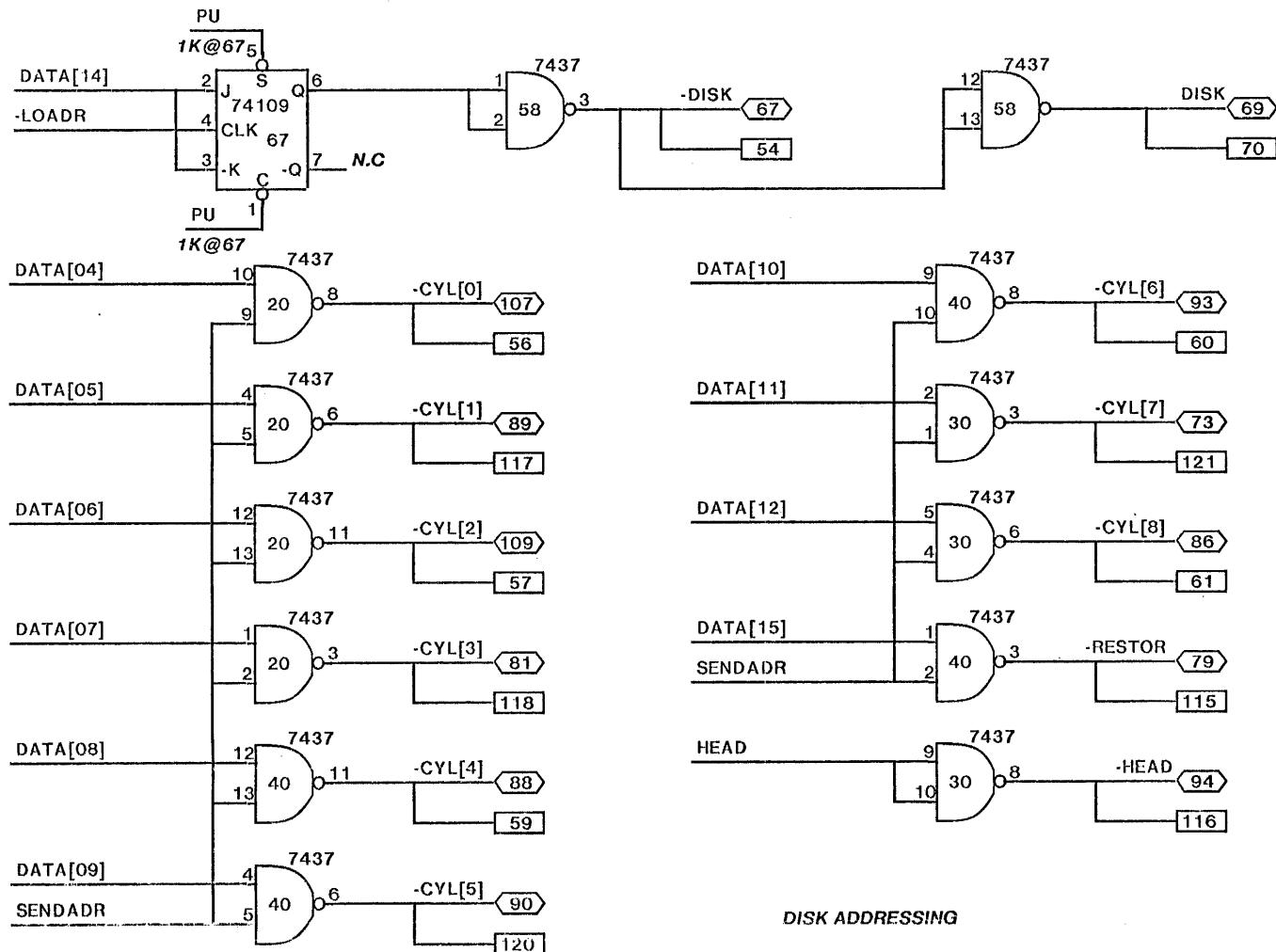
DIABLO MODEL 44 = 5.5170MHZ

DATA HANDLING

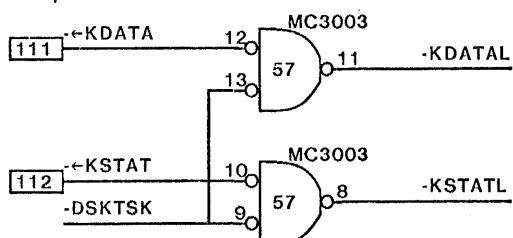
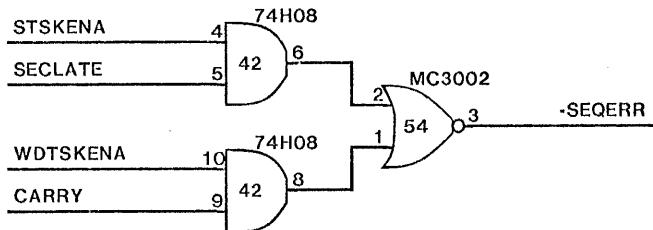
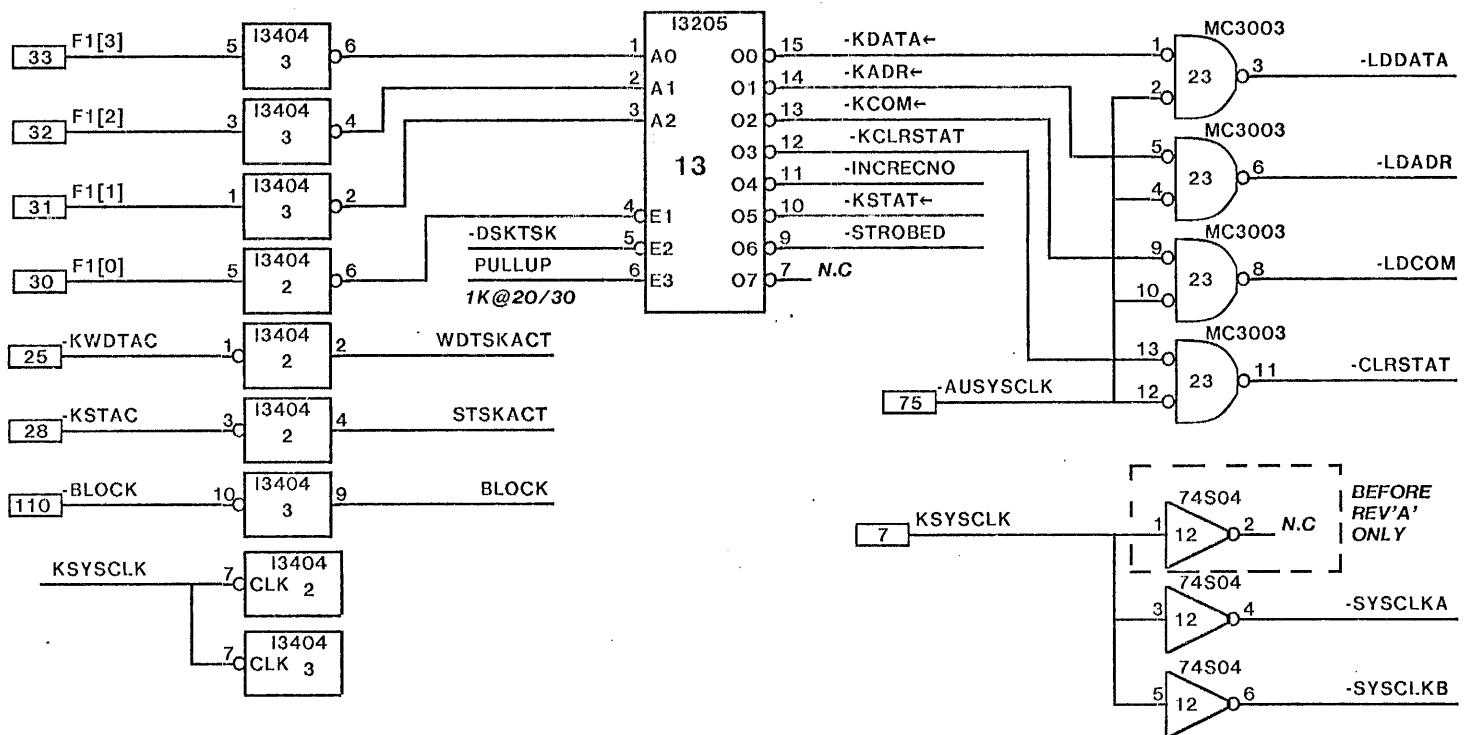




ADDRESS MODIFIERS



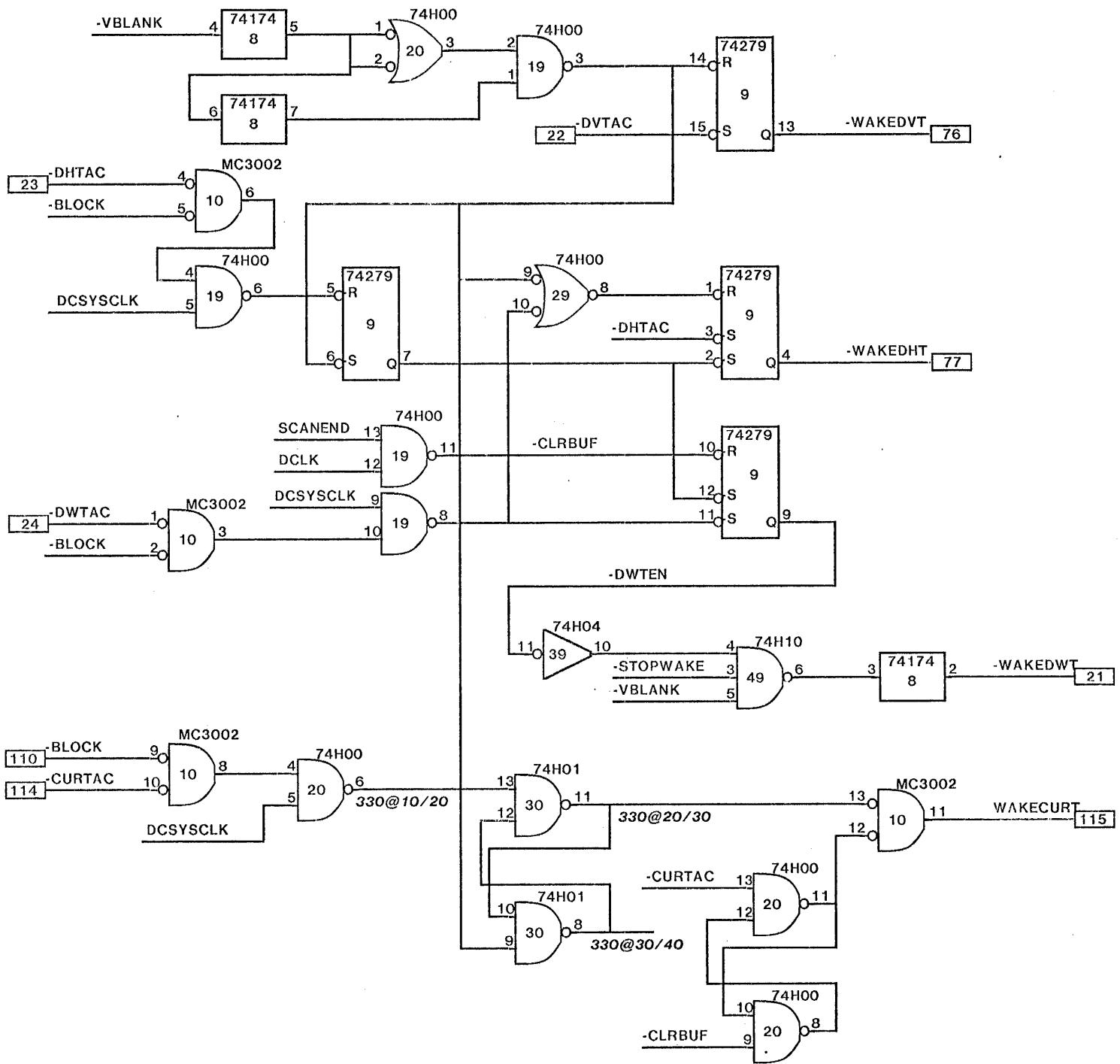
DISK ADDRESSING



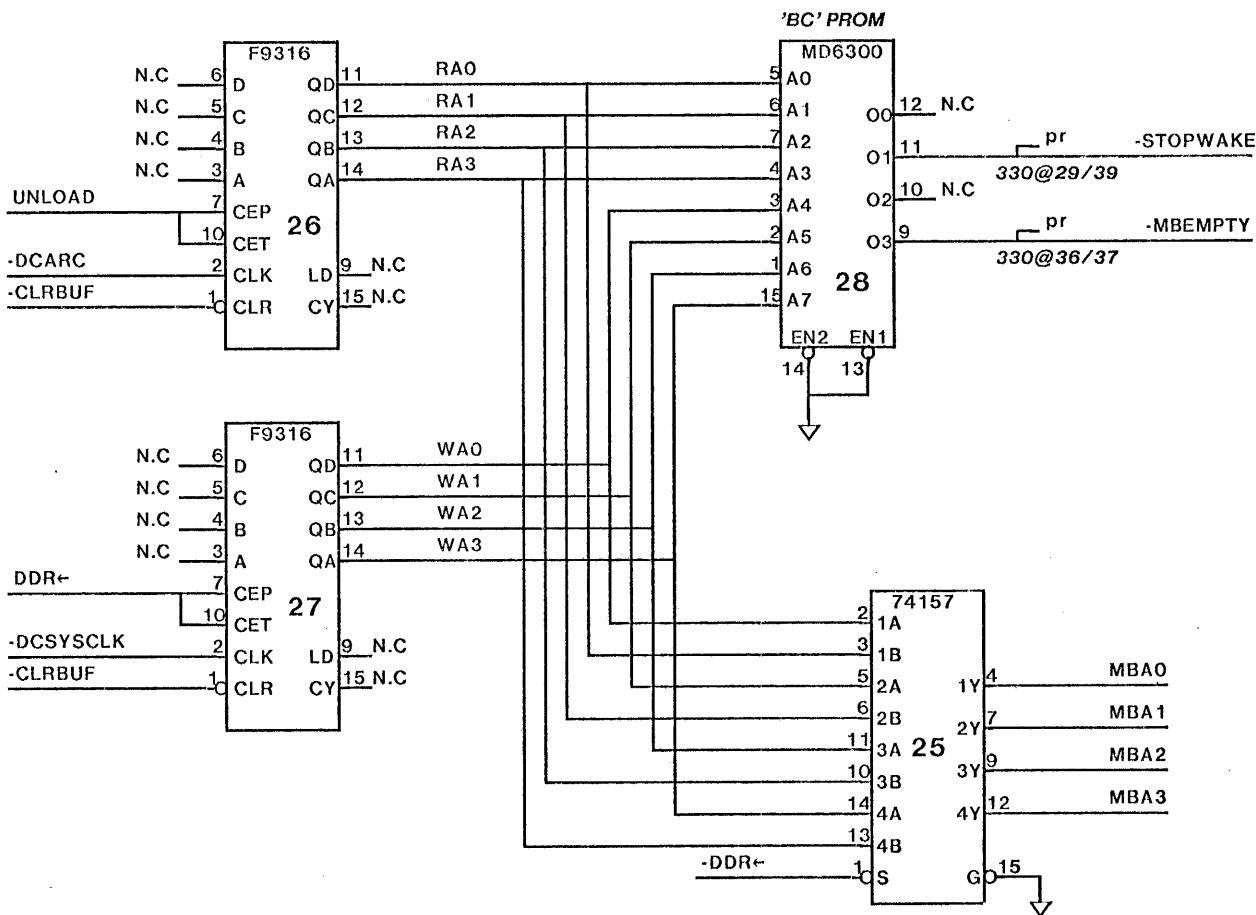
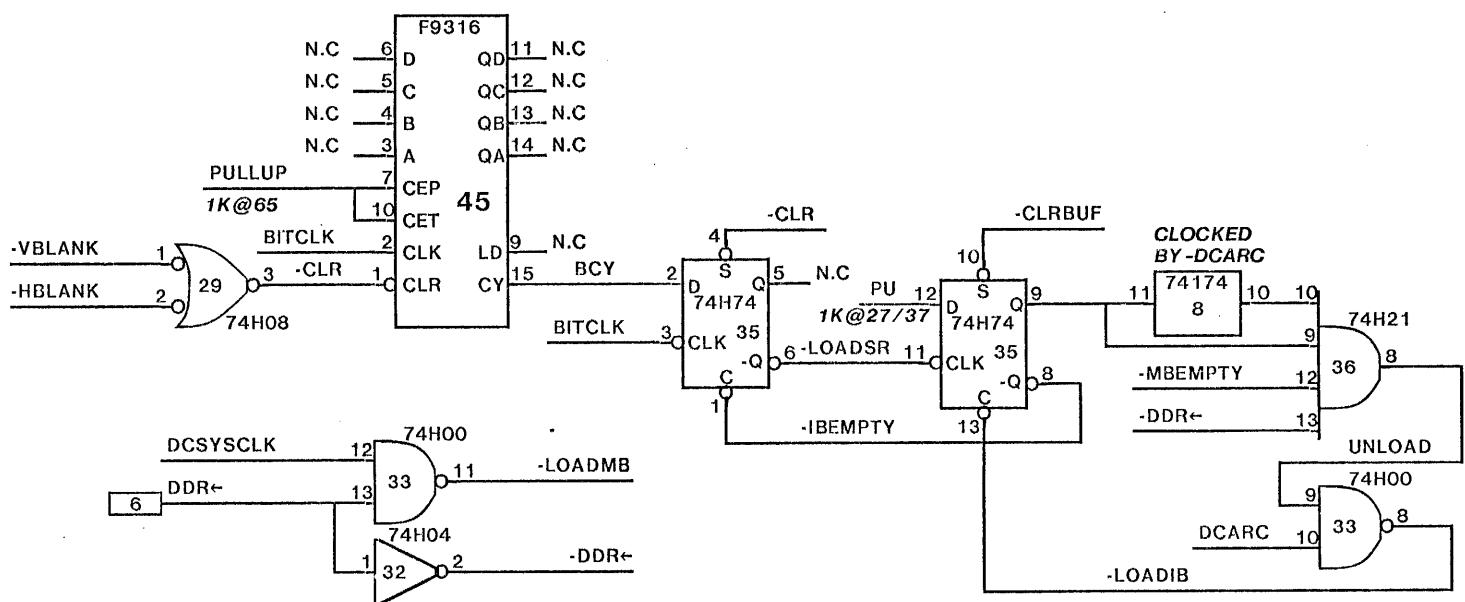
F DECODE AND CLOCKS

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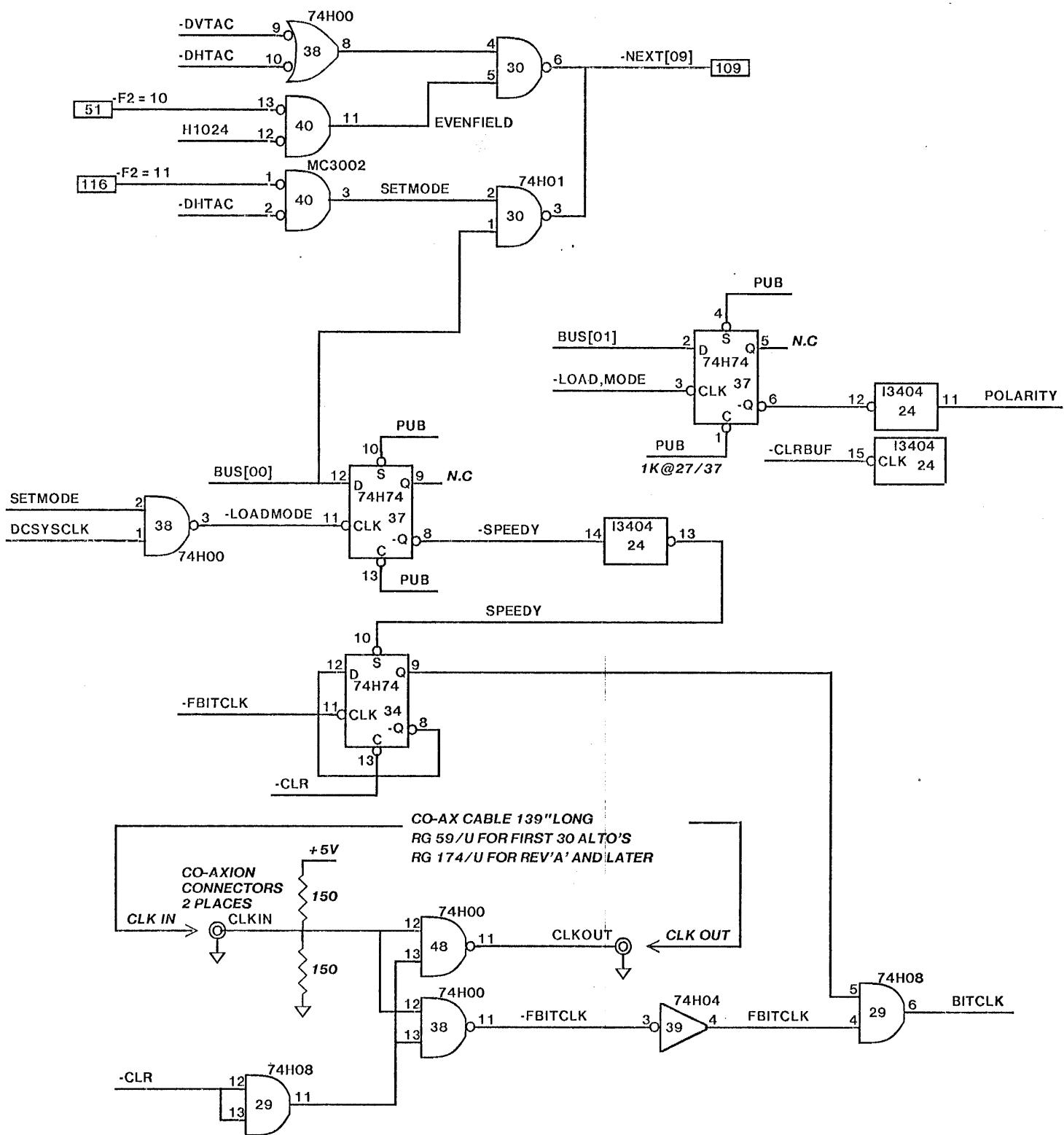
DISPLAY Page 1

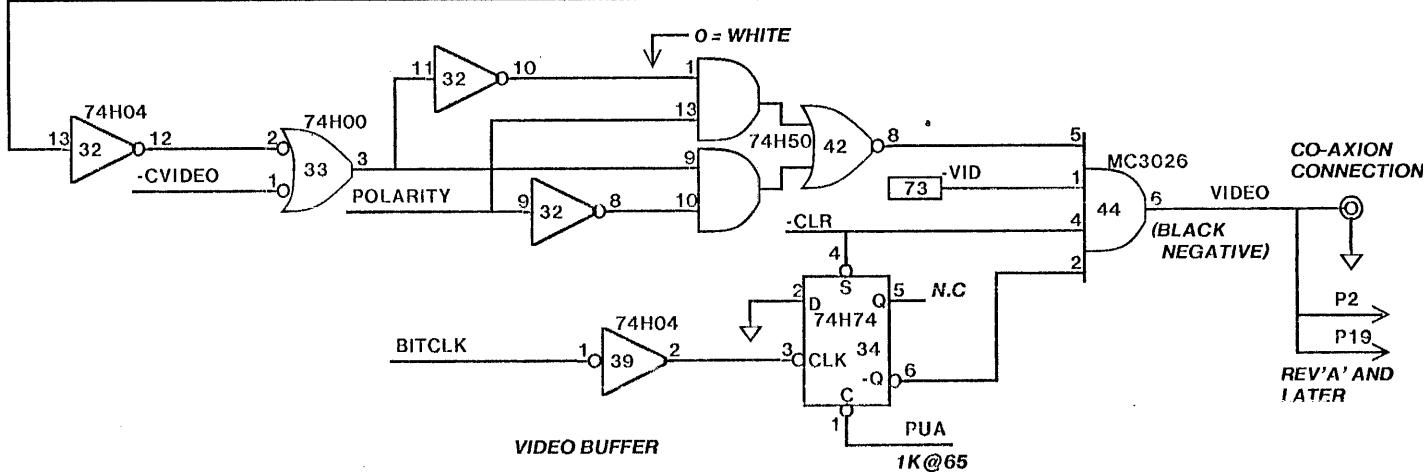
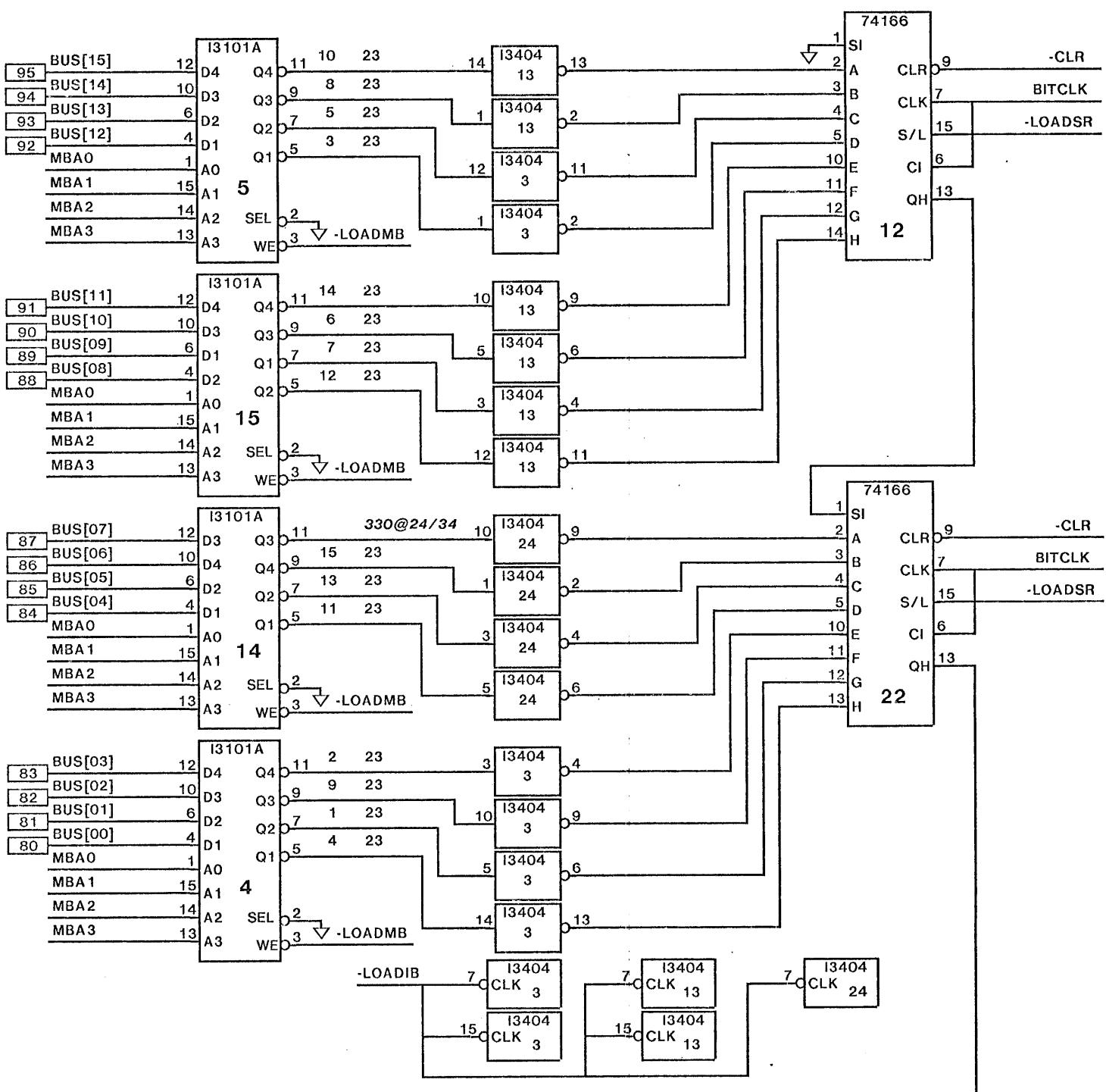


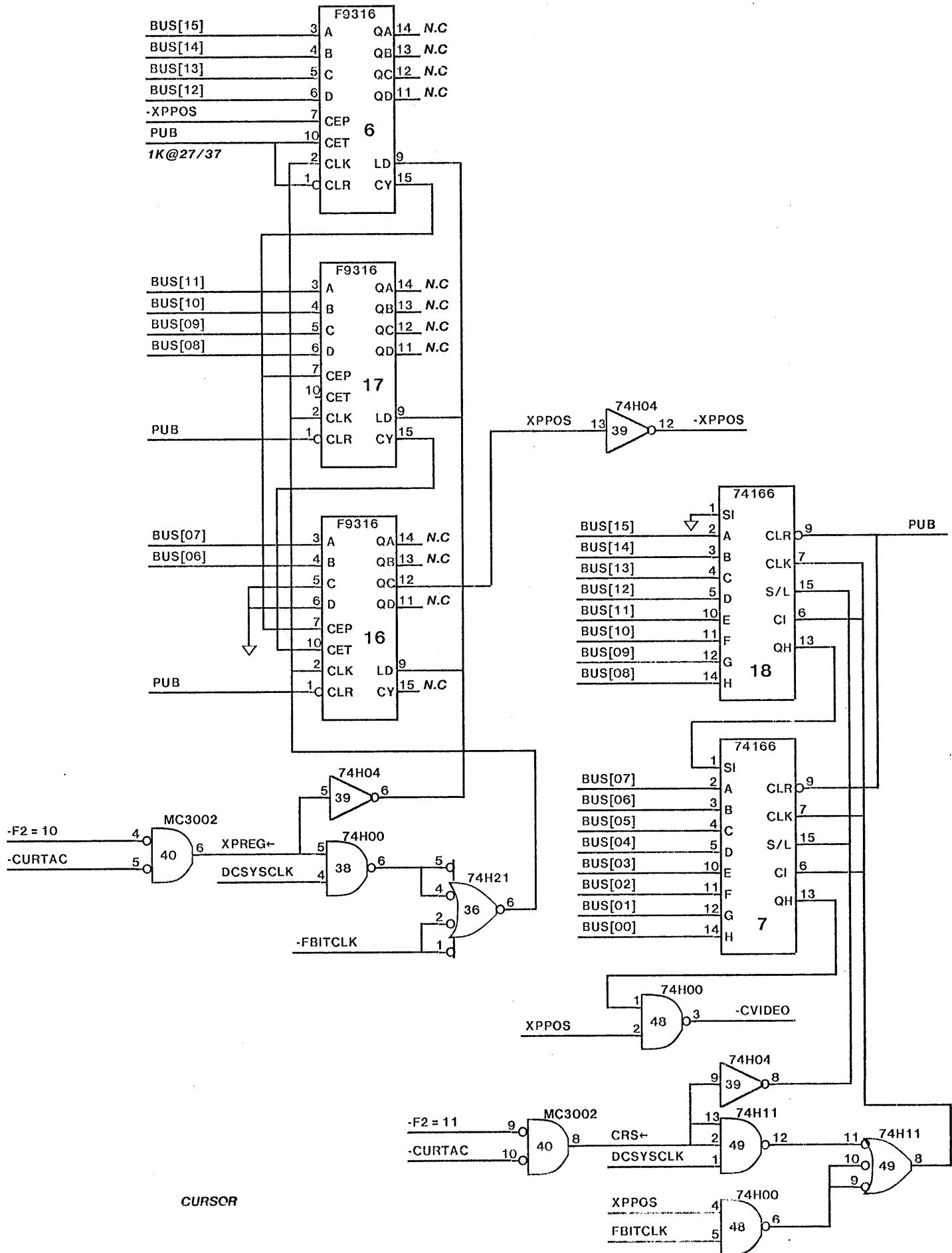
WAKEUPS

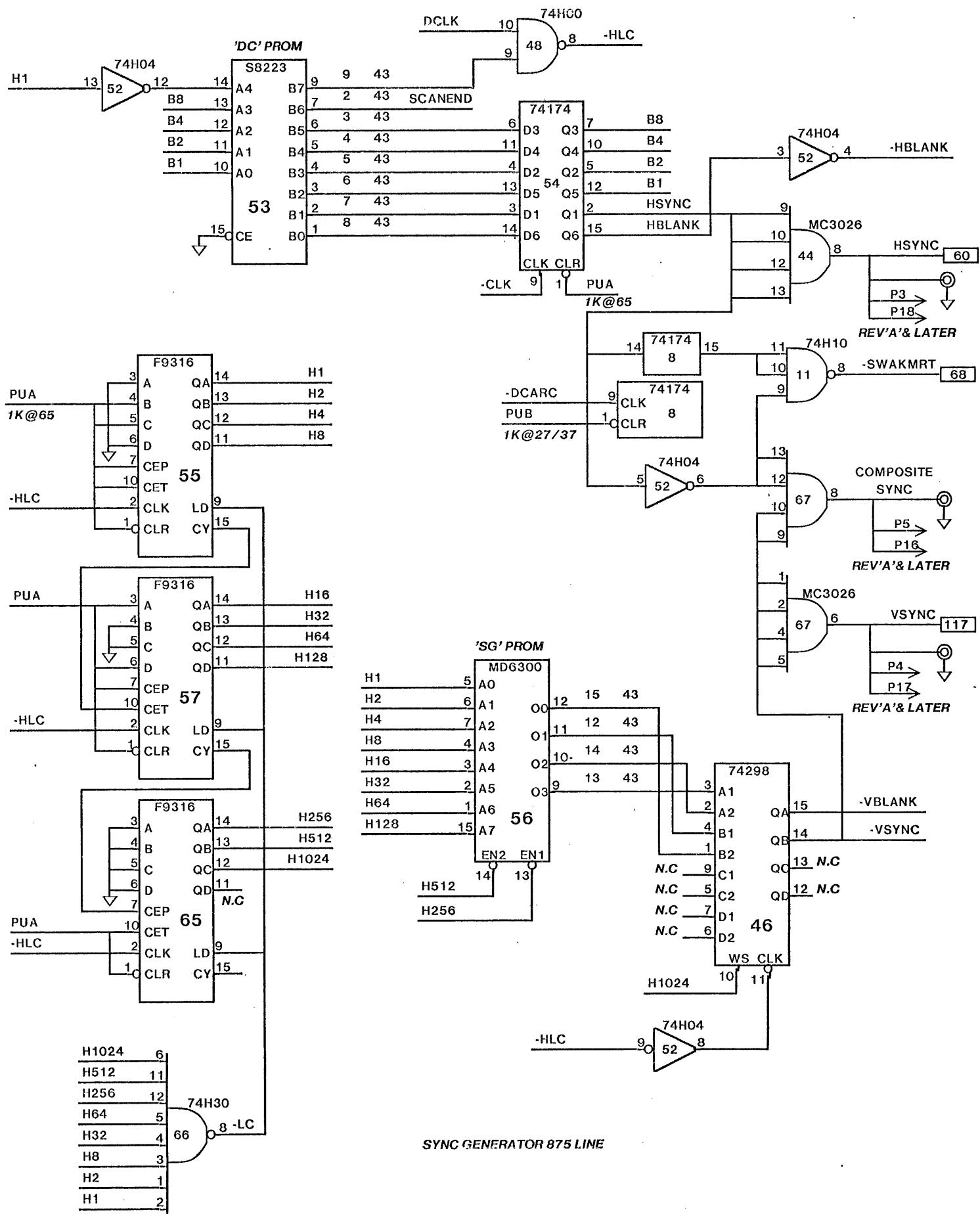


BUFFER CONTROL



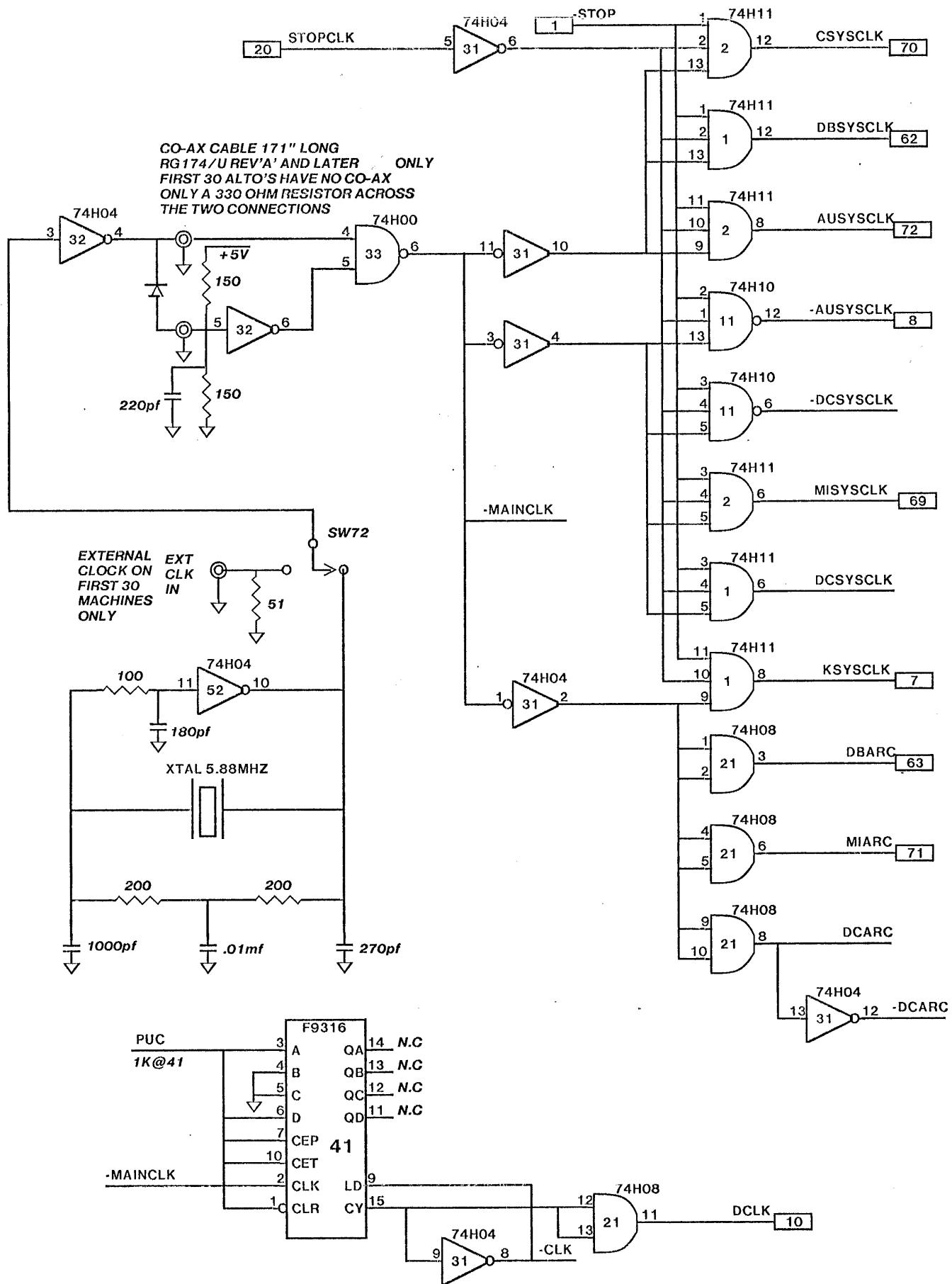




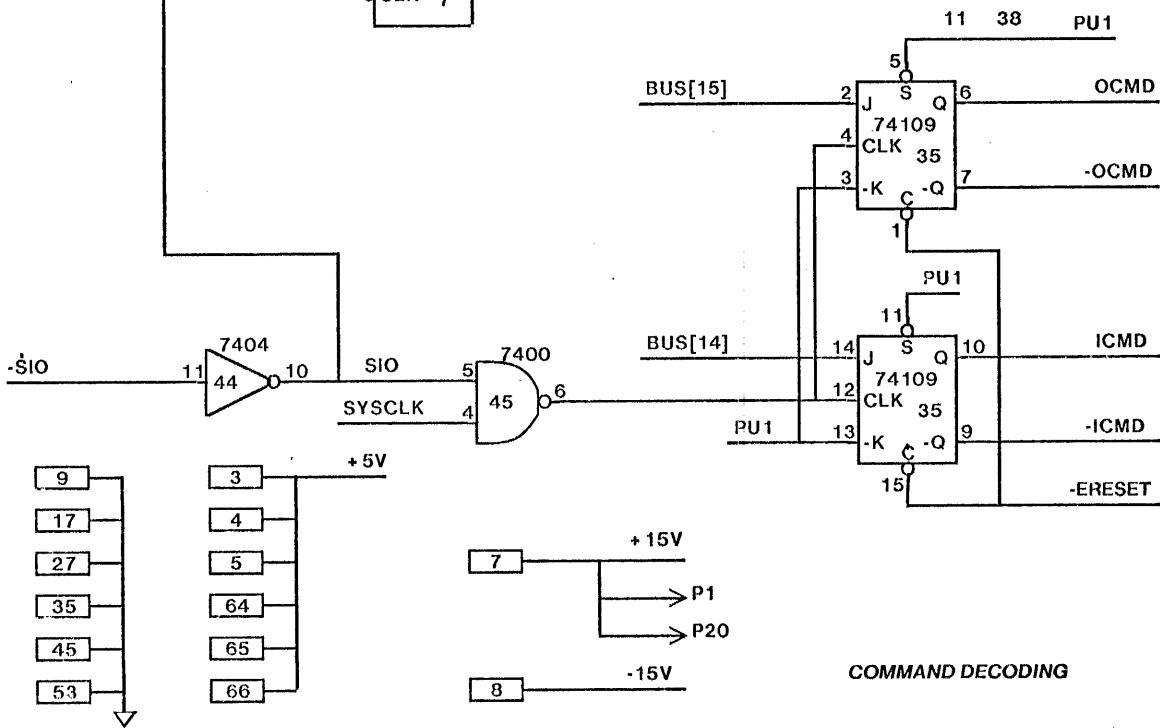
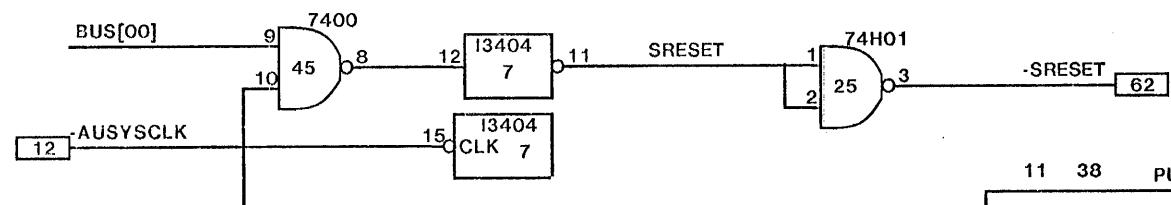
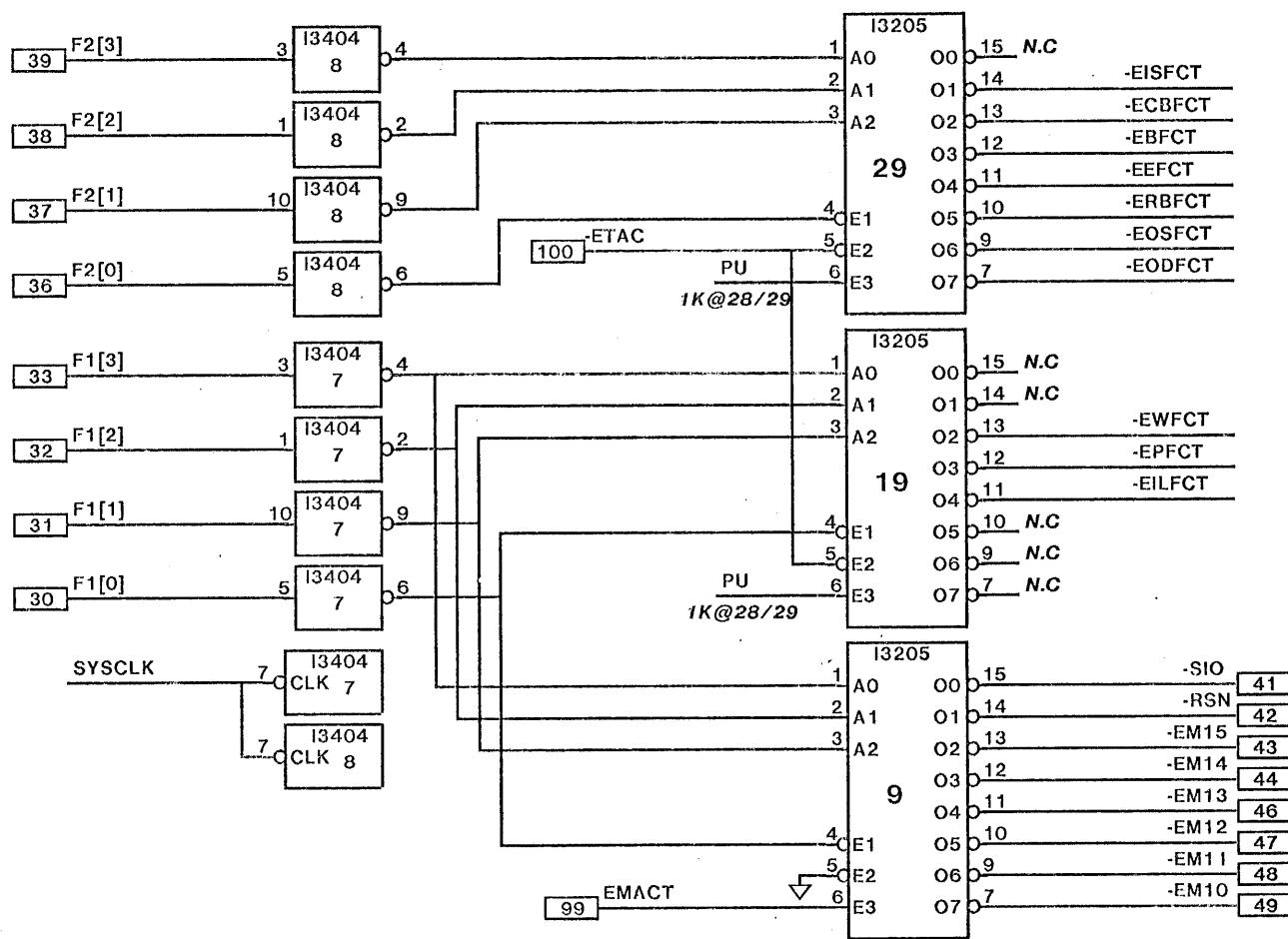


28 JAN 77

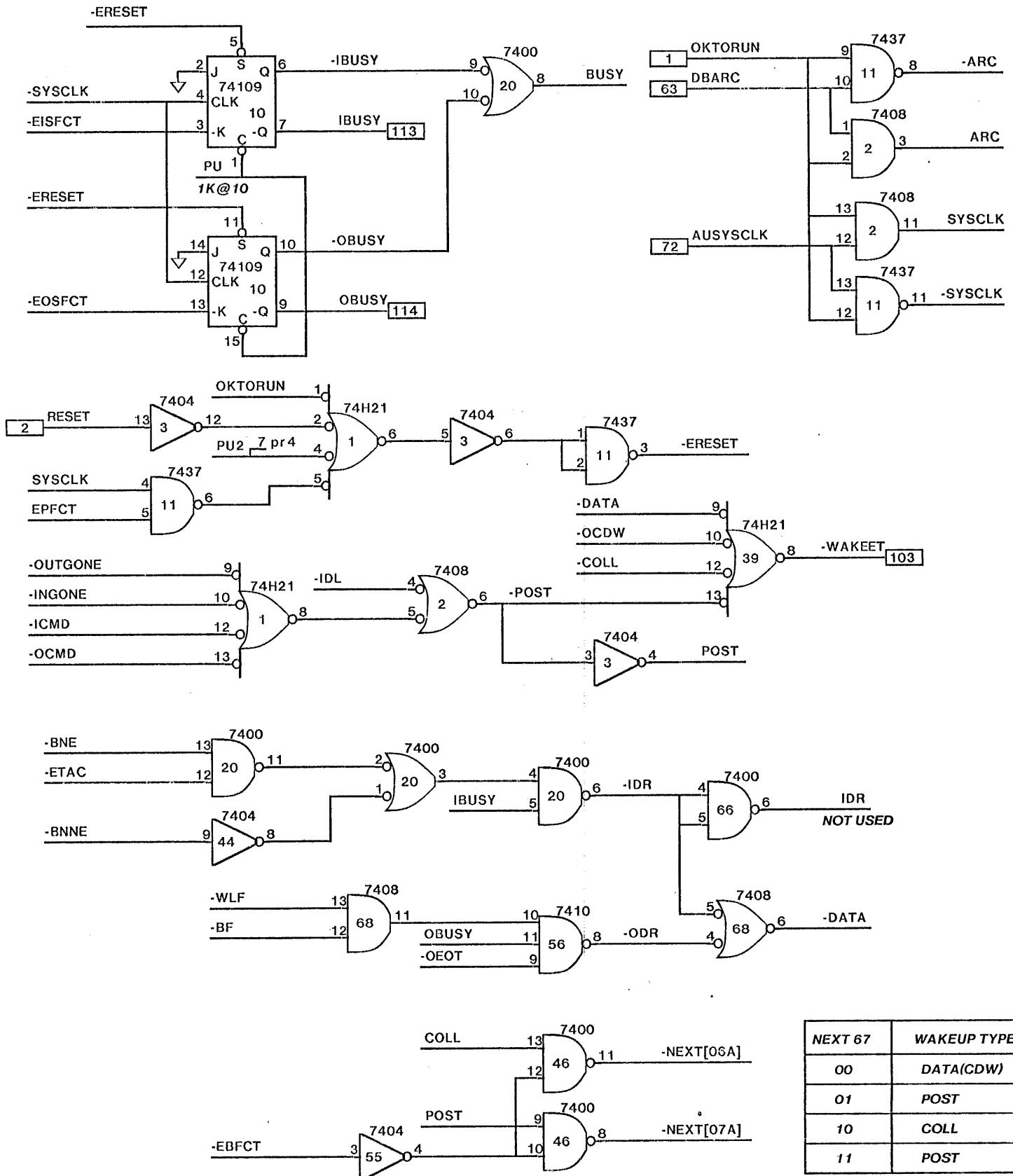
DISPLAY Page 7



SYSTEM CLOCKS



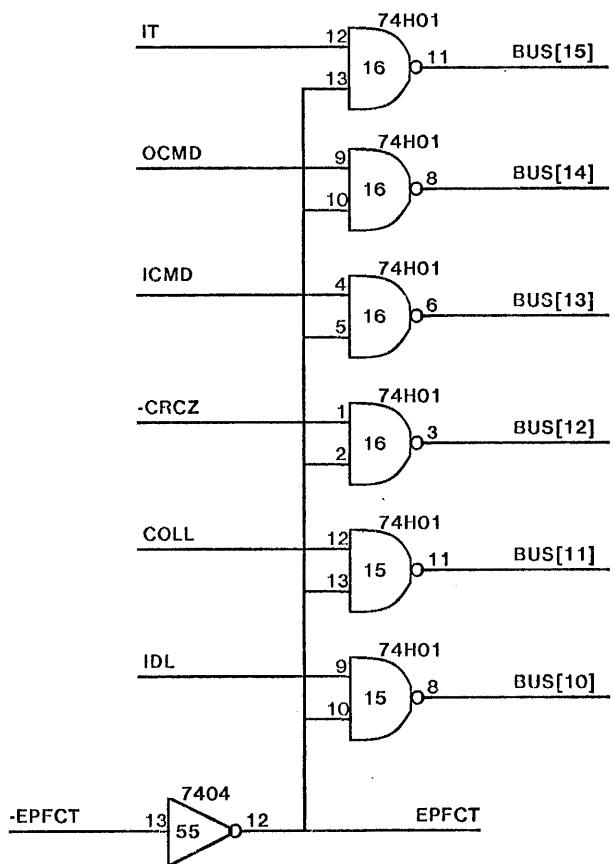
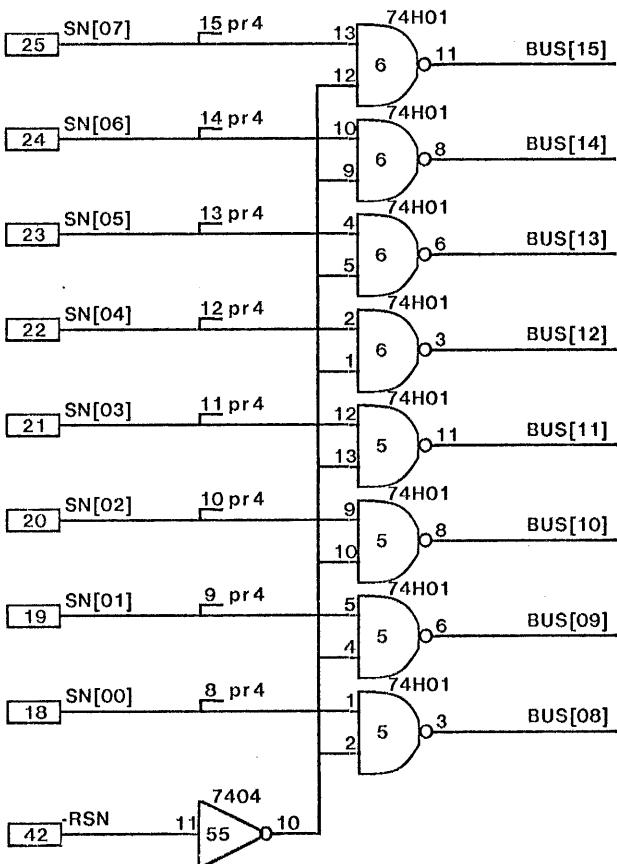
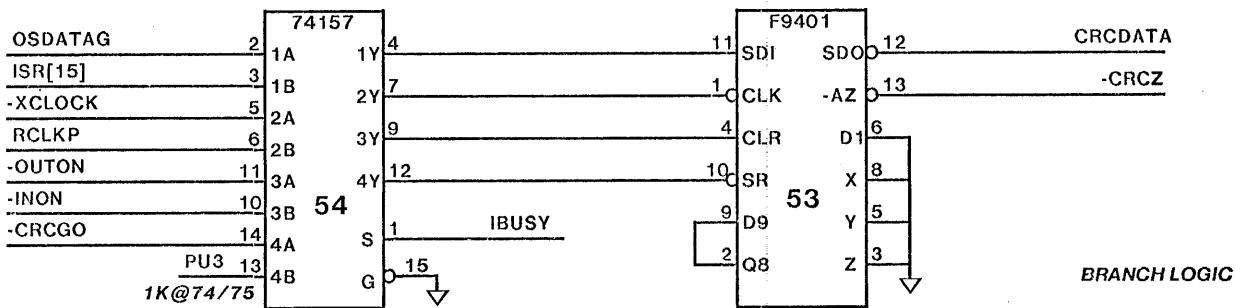
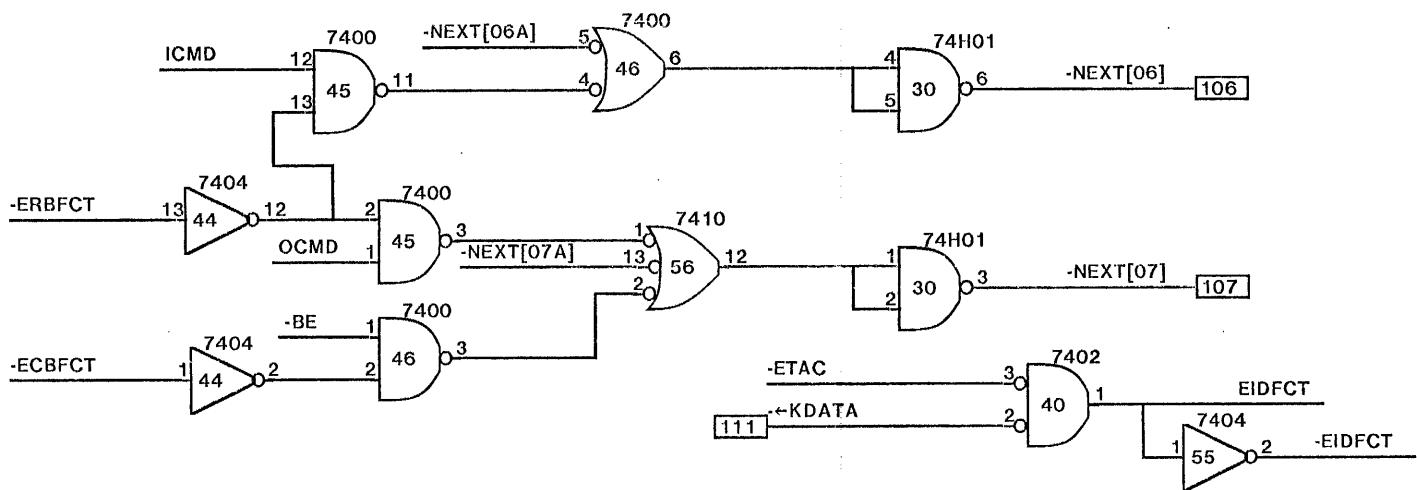
COMMAND DECODING



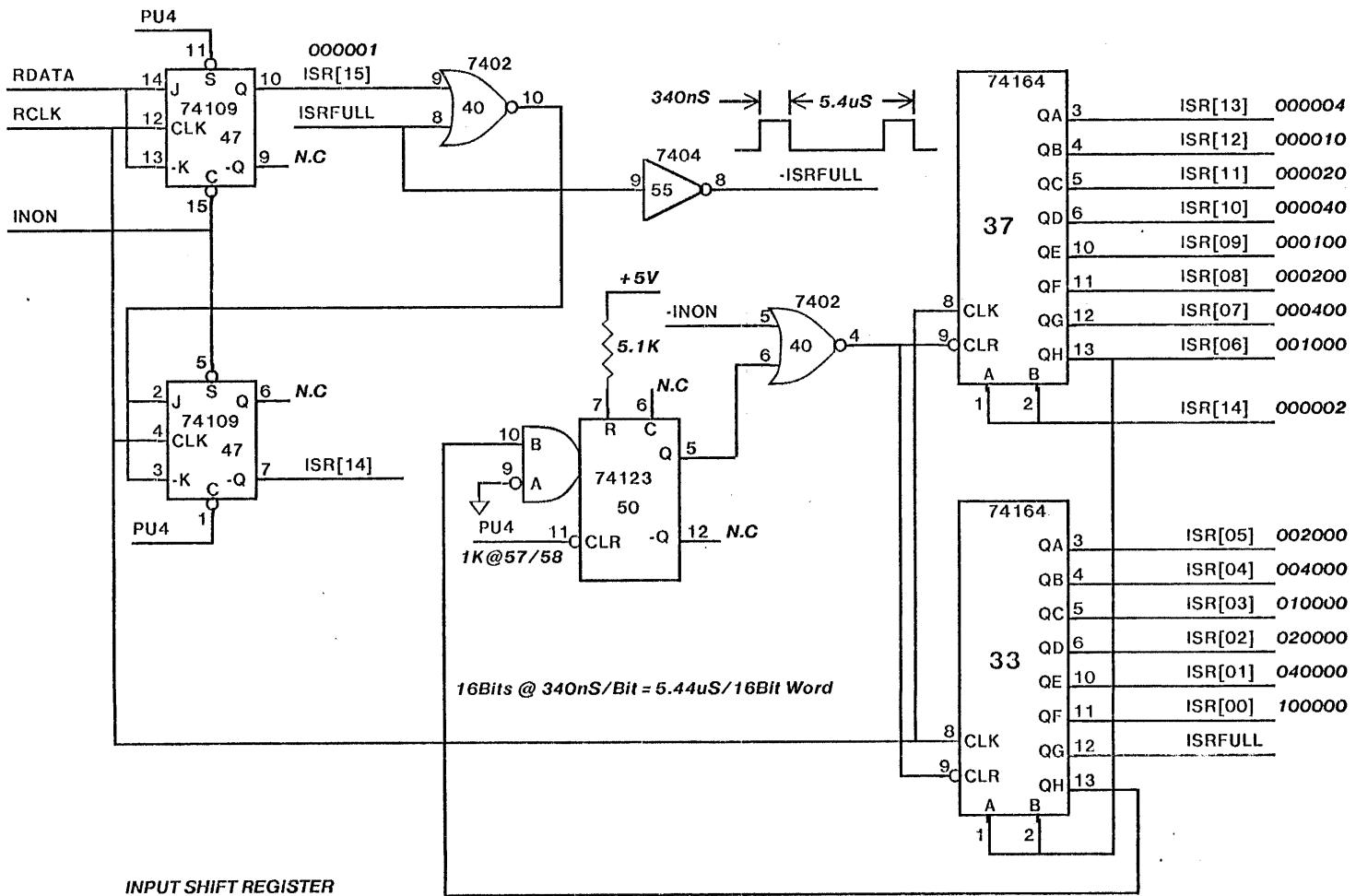
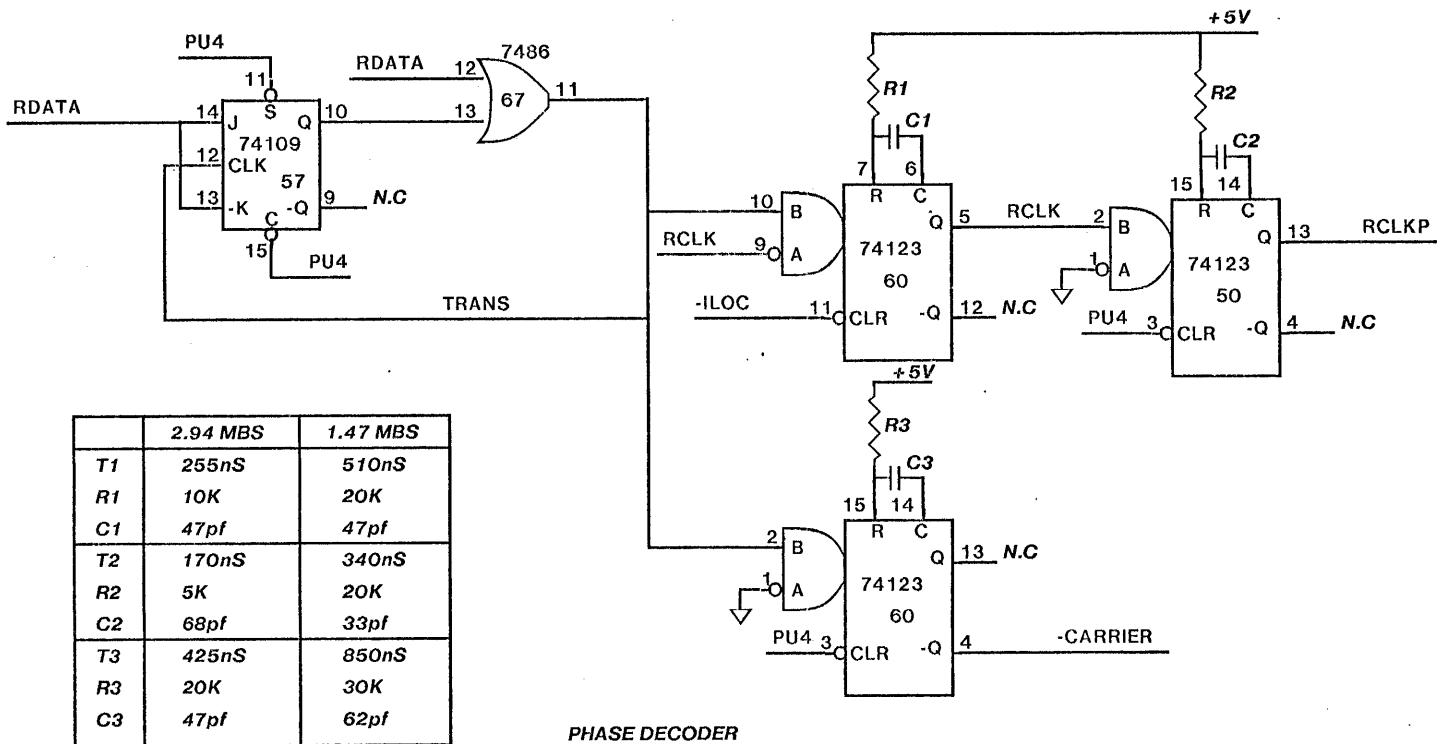
ALTO INTERFACE

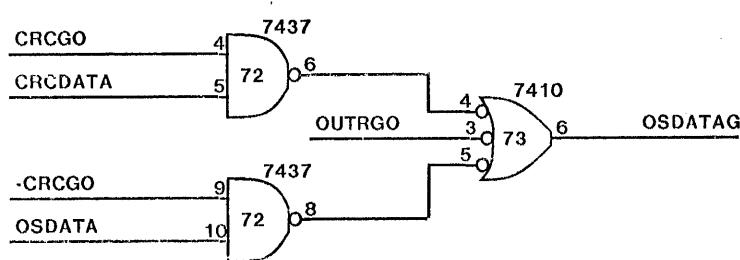
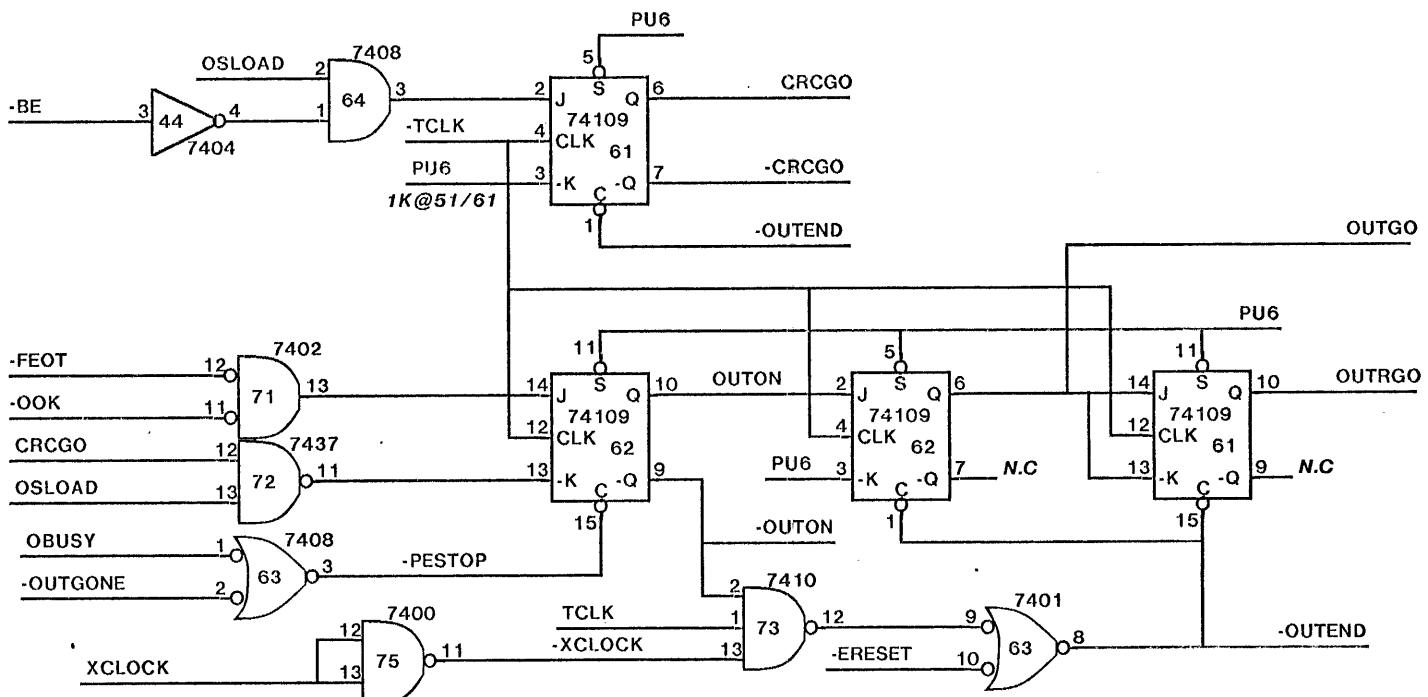
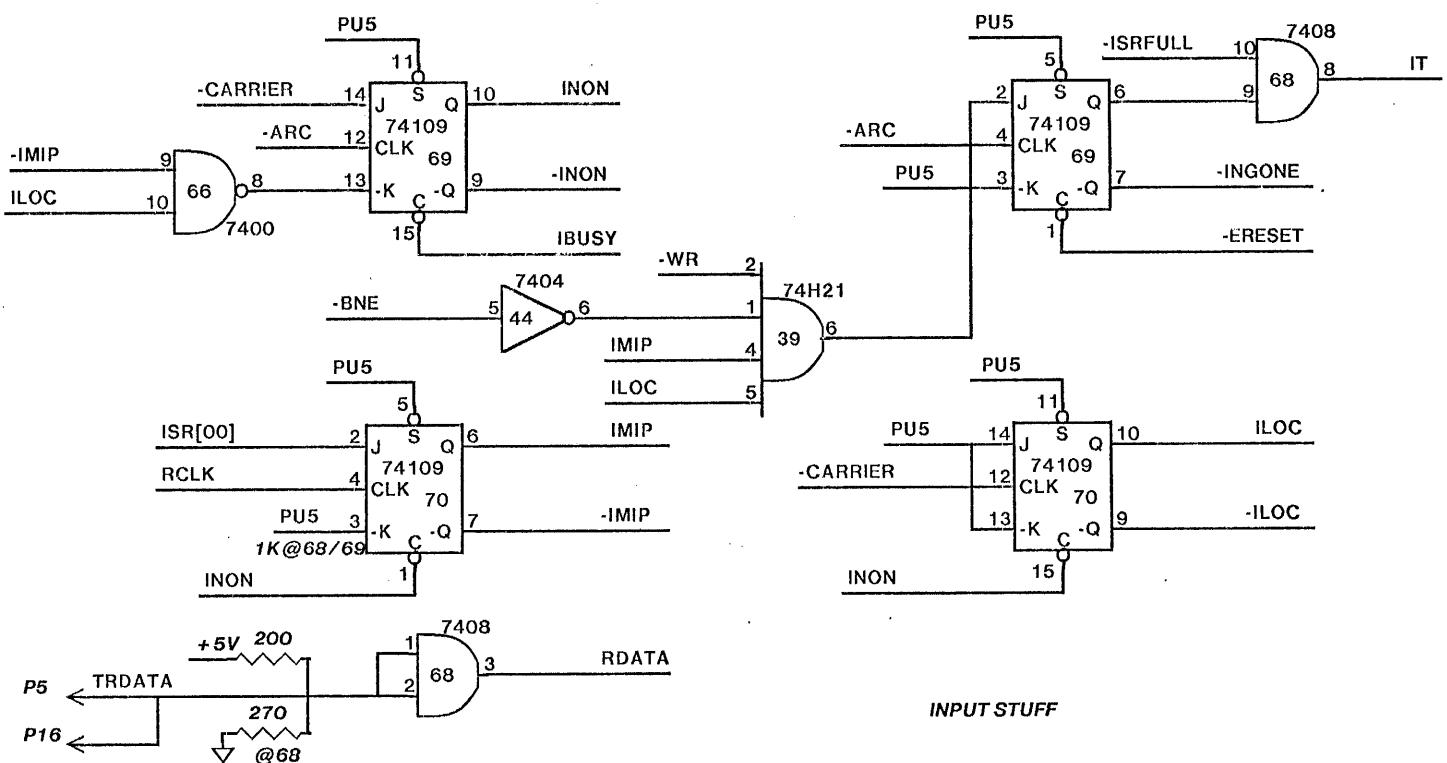
27 JAN 77

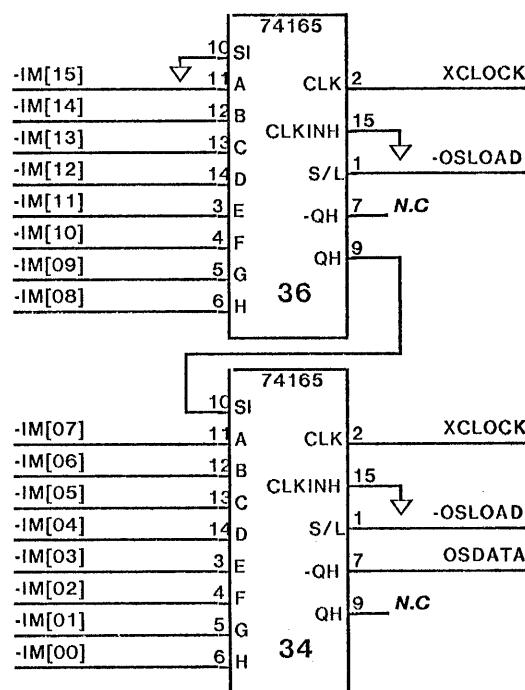
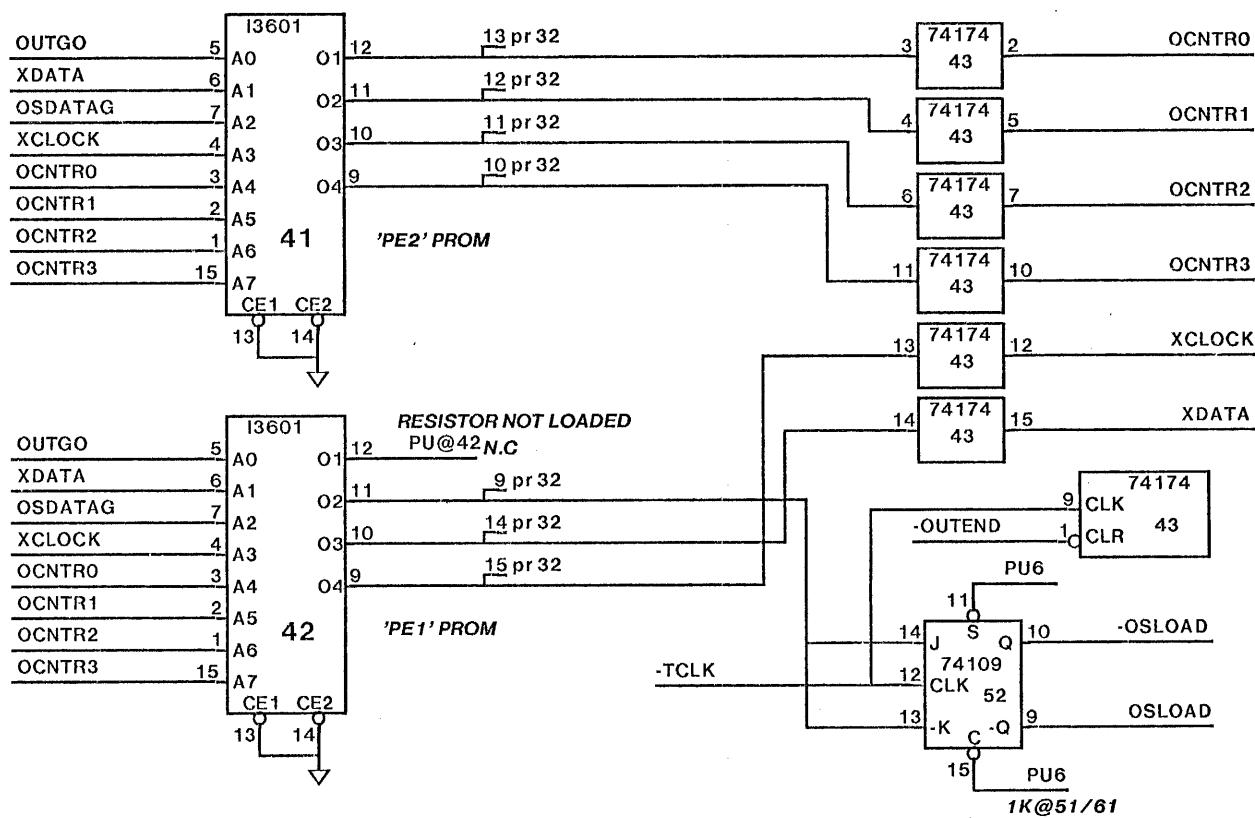
ETHERNET Page 3



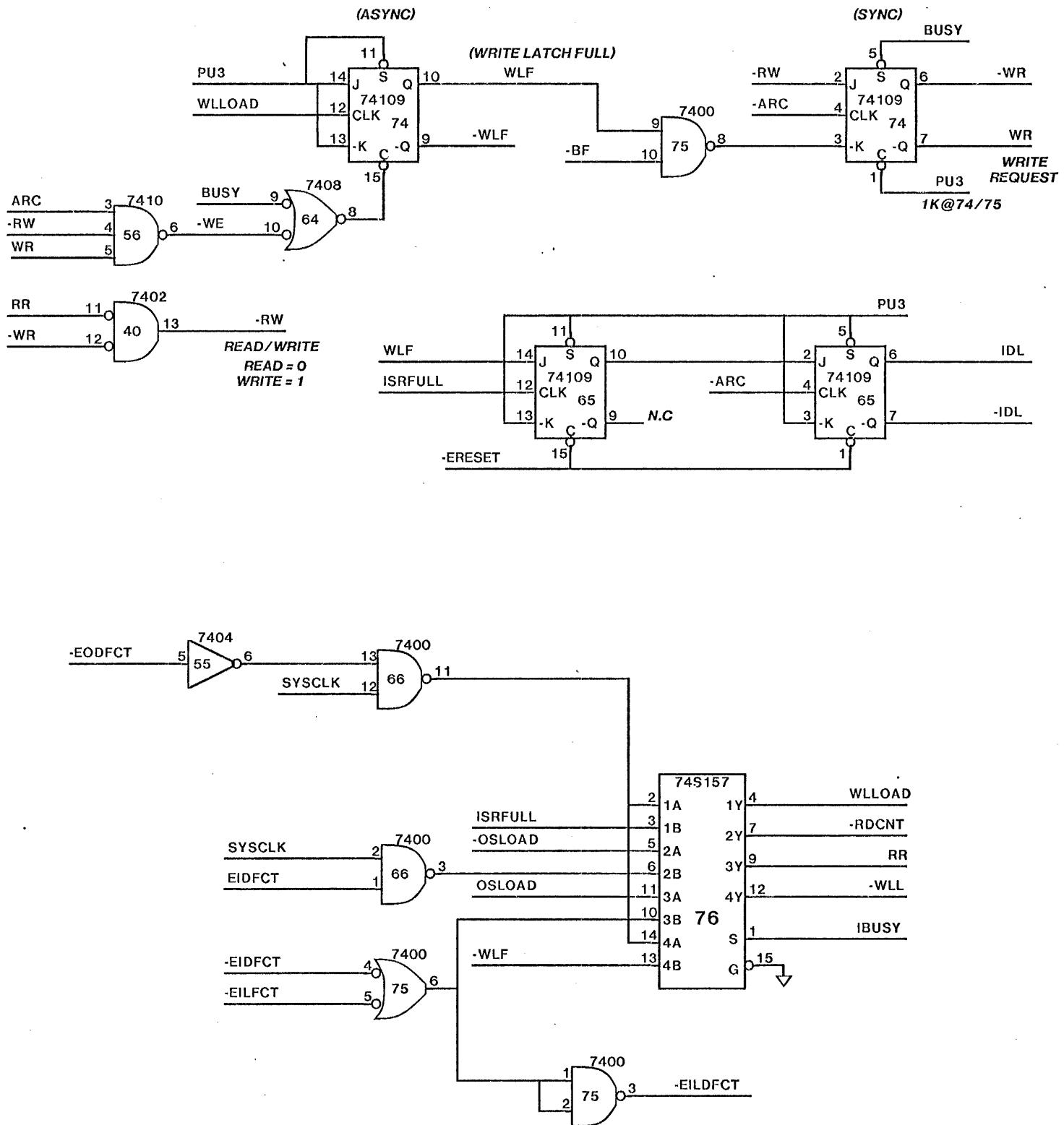
SERIAL NUMBER & STATUS



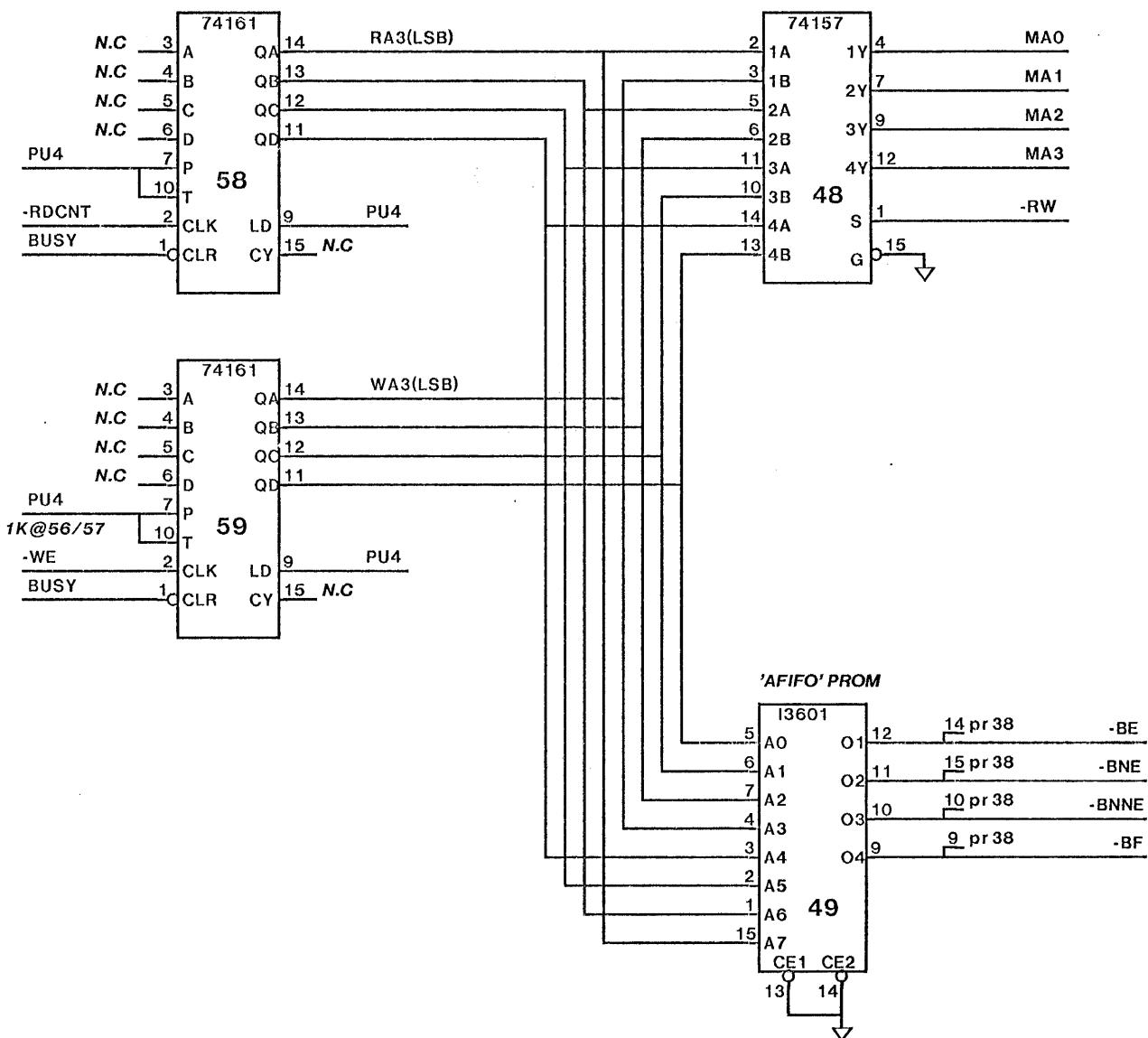




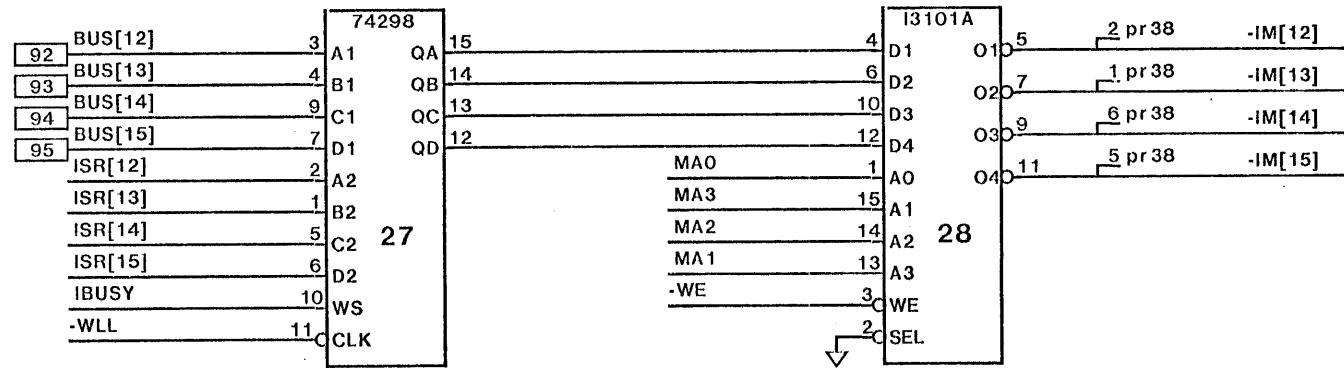
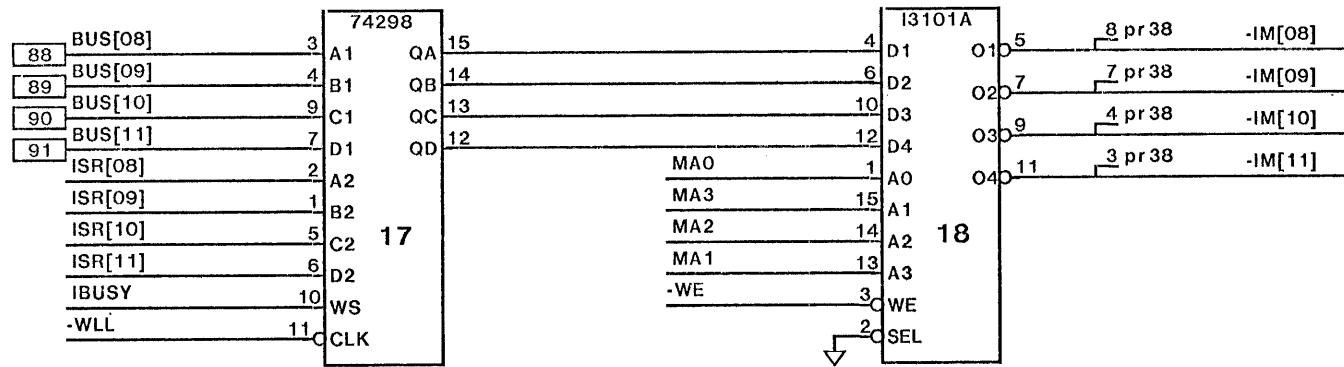
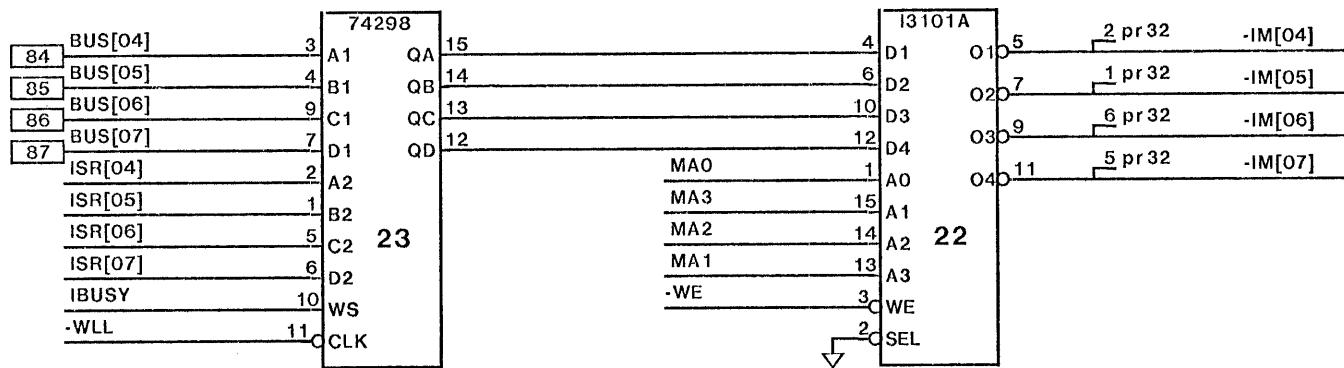
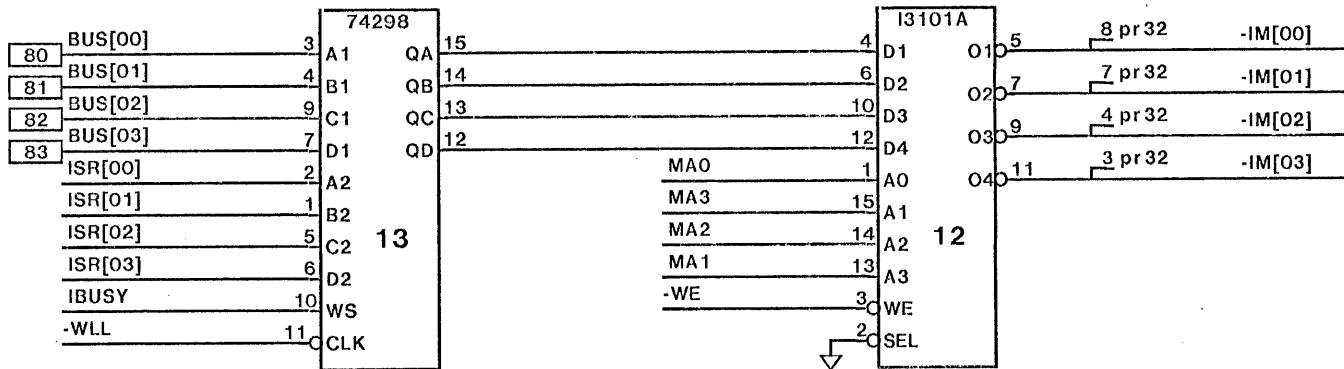
OUTPUT SHIFT REGISTER & ENCODER

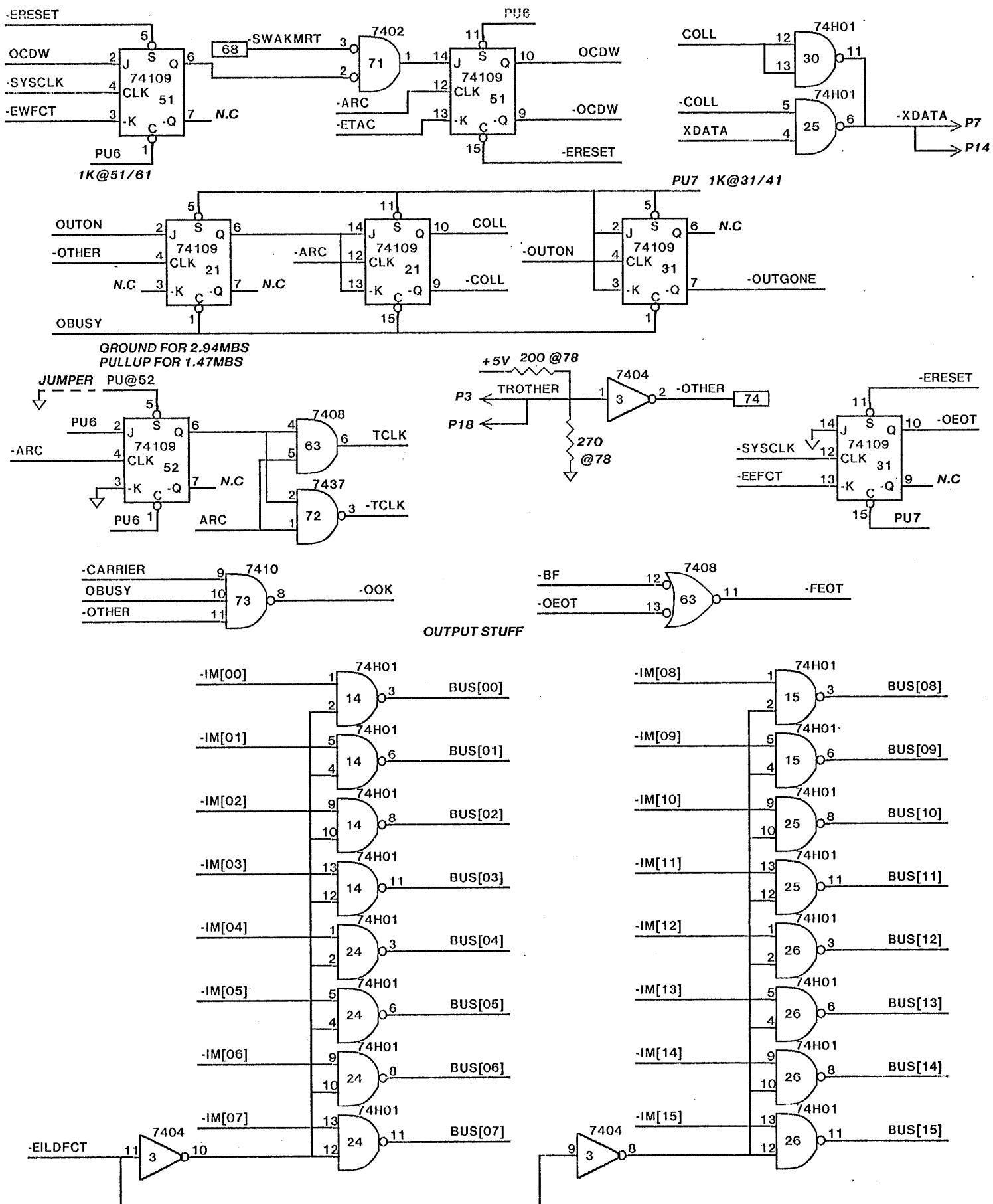


BUFFER CONTROL



HALF DUPLEX BUFFER

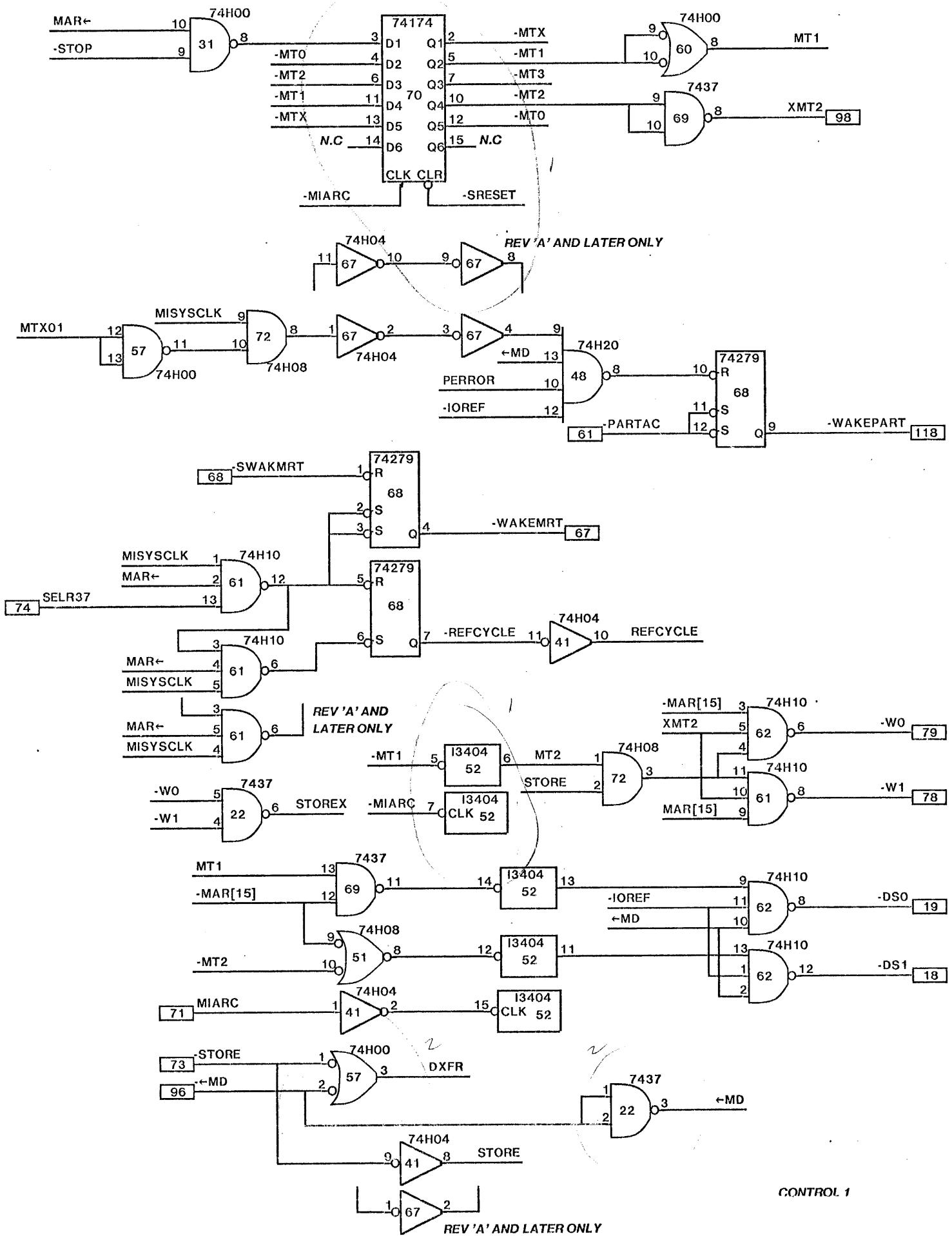




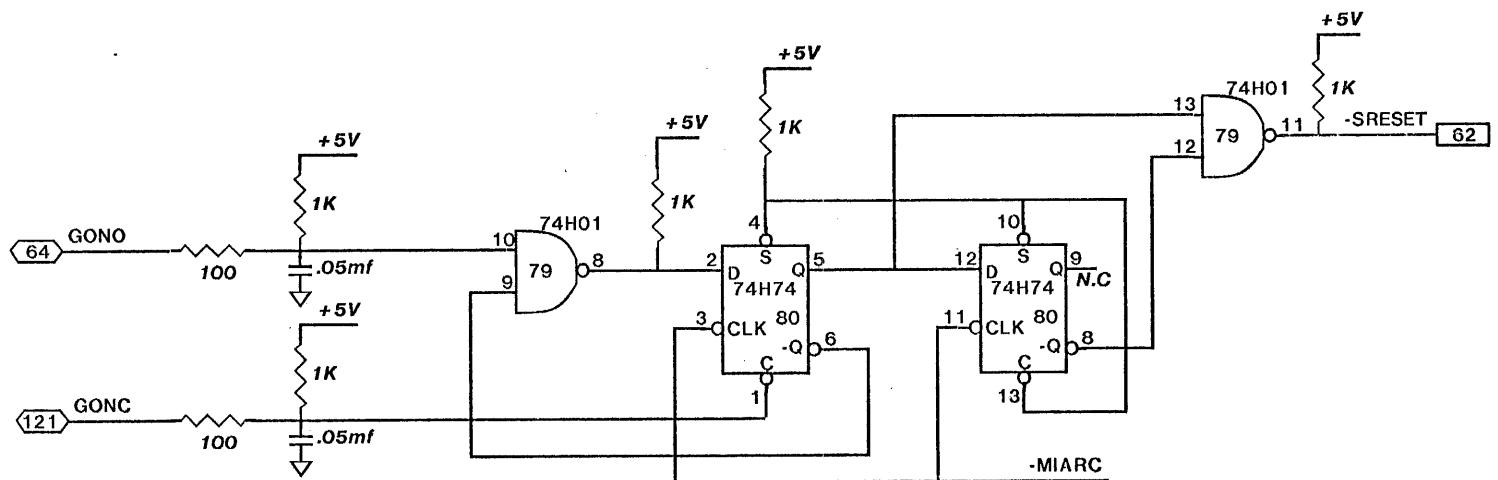
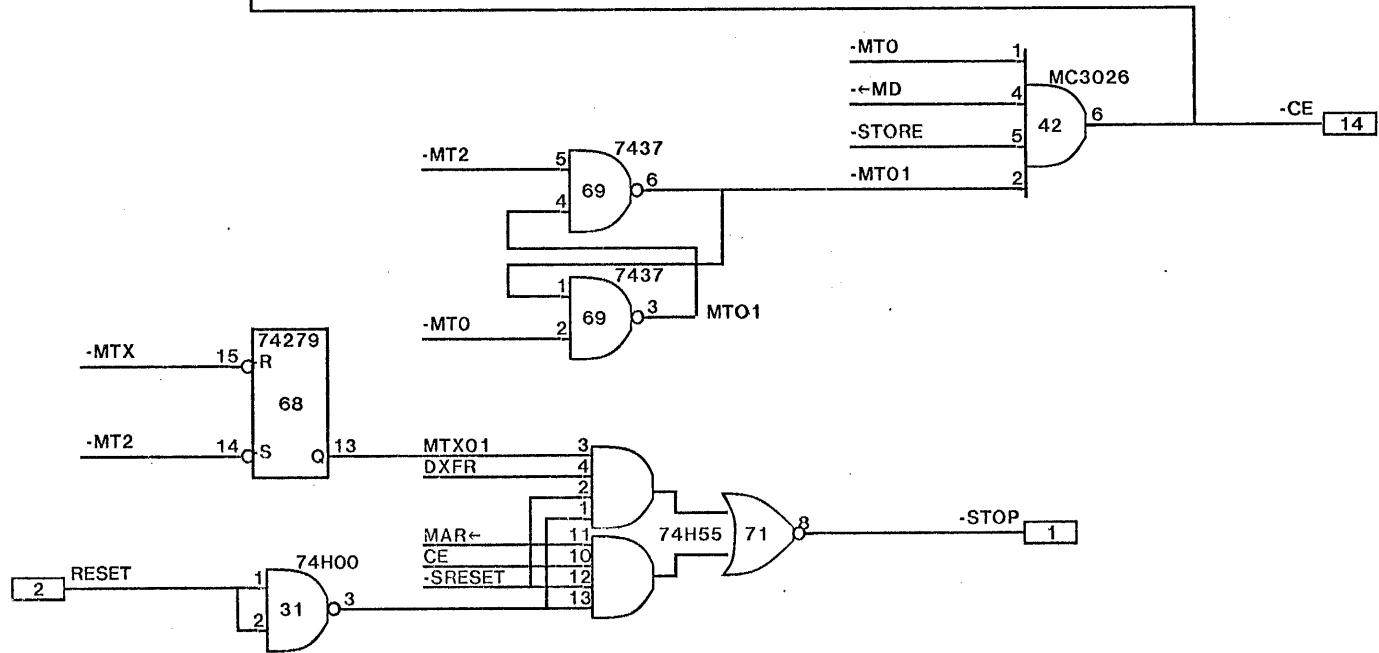
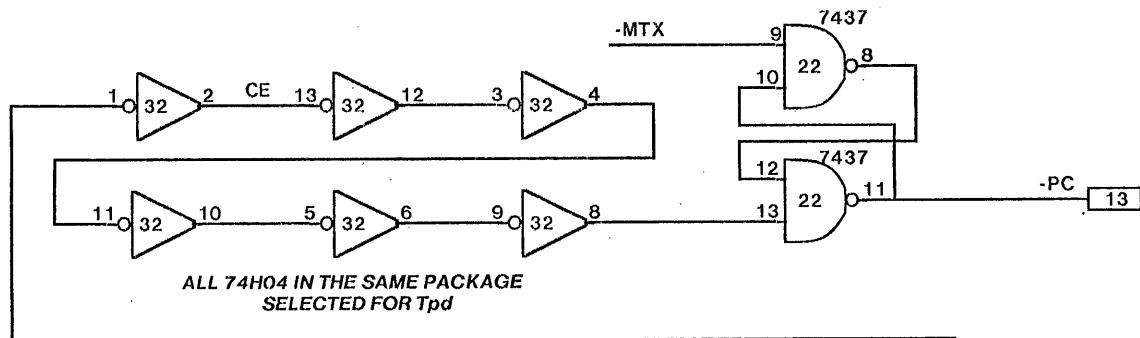
PROCESSOR BUS DRIVERS

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MEMORY INT Page 1

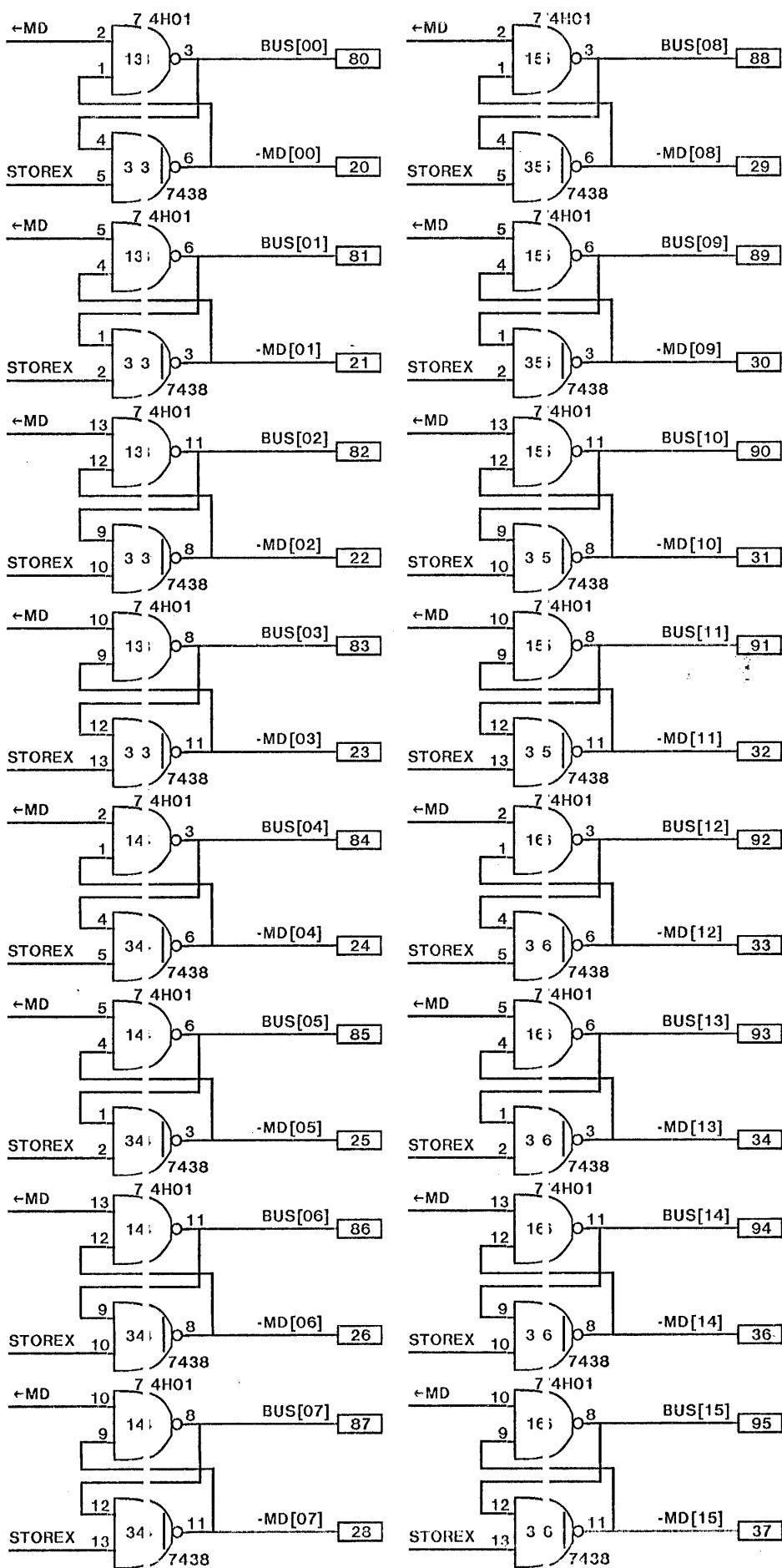


CONTROL 1

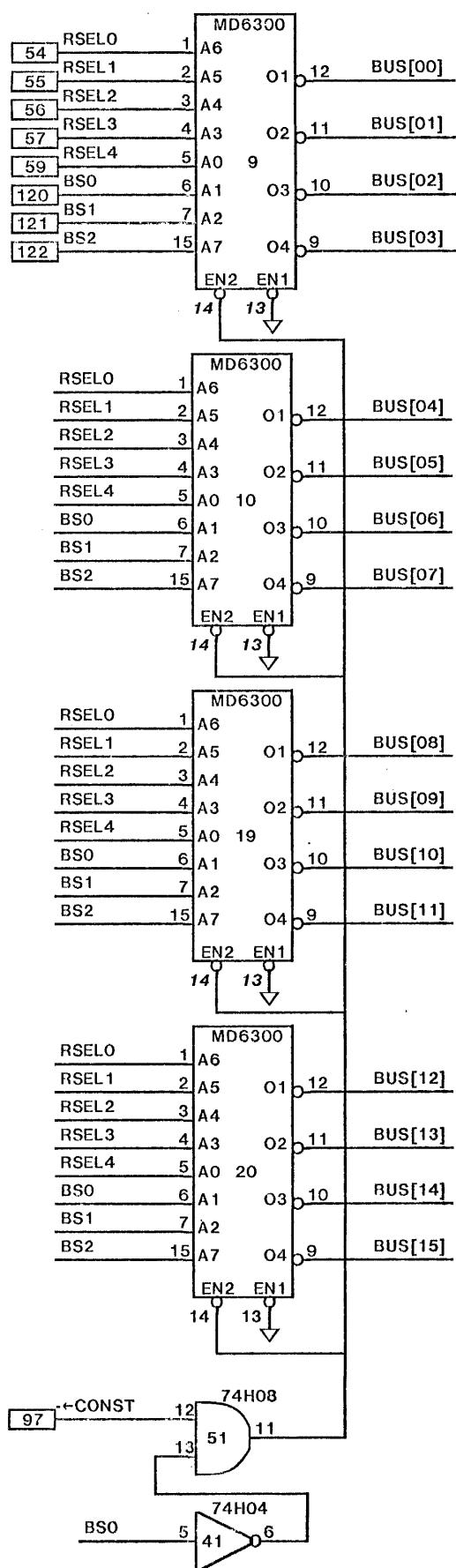


6 JAN 77

MEM INT Page 3



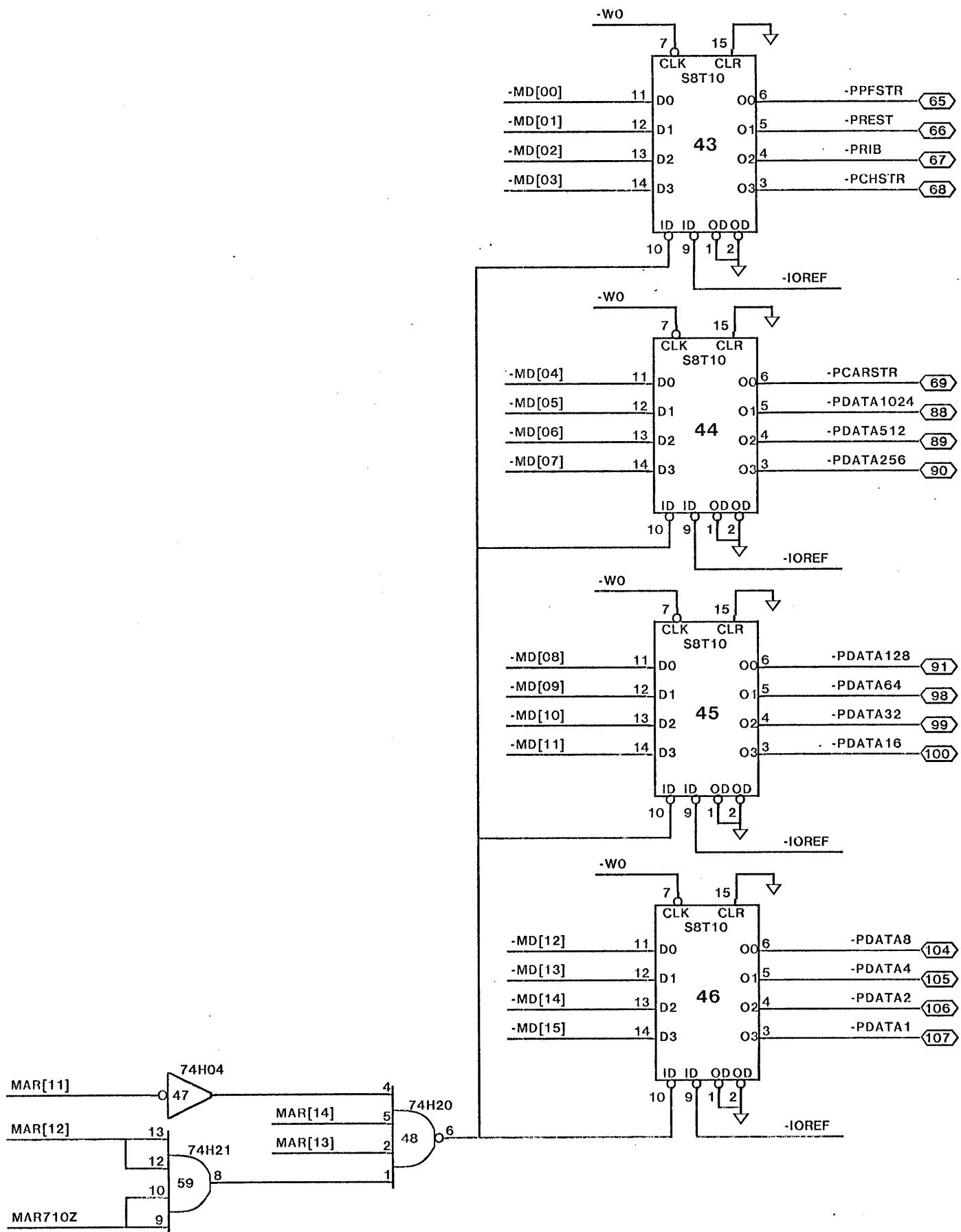
BUS DRIVER IS

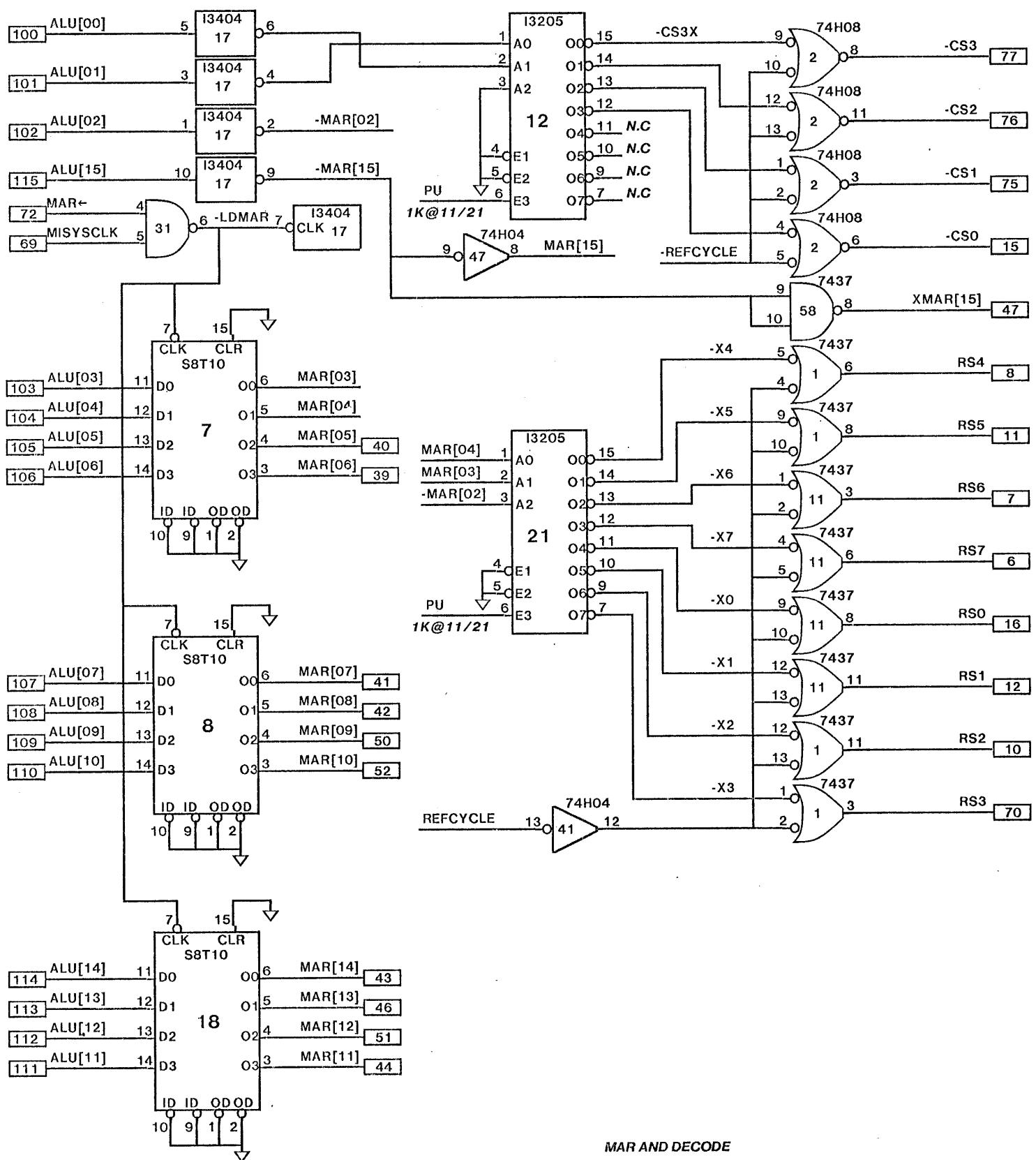
ALL -MD SIGNALS ARE PULLED UP WITH
330 OHM DISCRETE RESISTORS ON THE BOARD

CONSTANT MEMORY'S

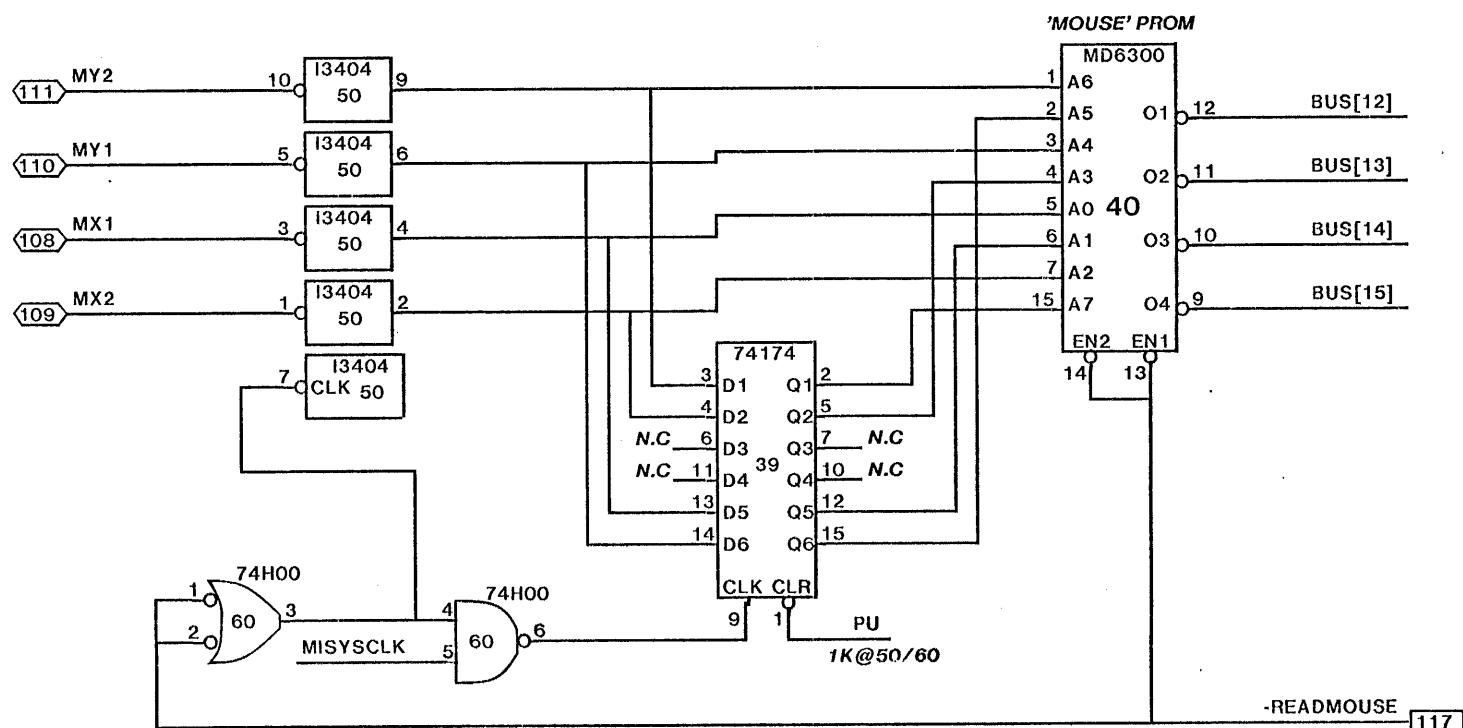
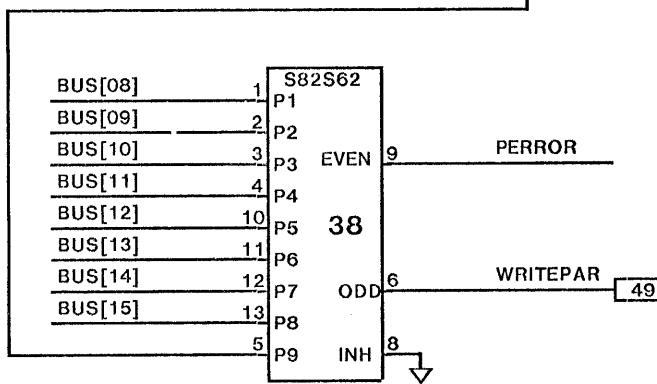
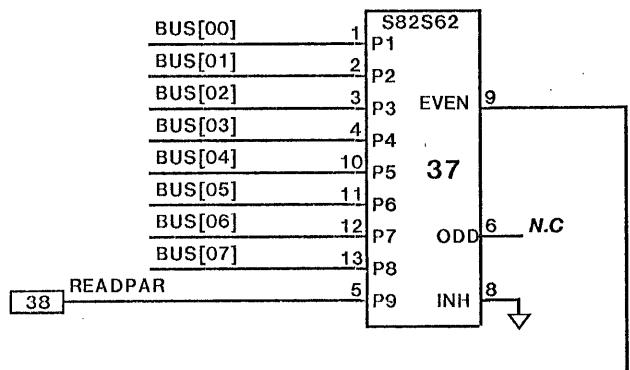
27 JAN 77

MEMORY INT Page 4





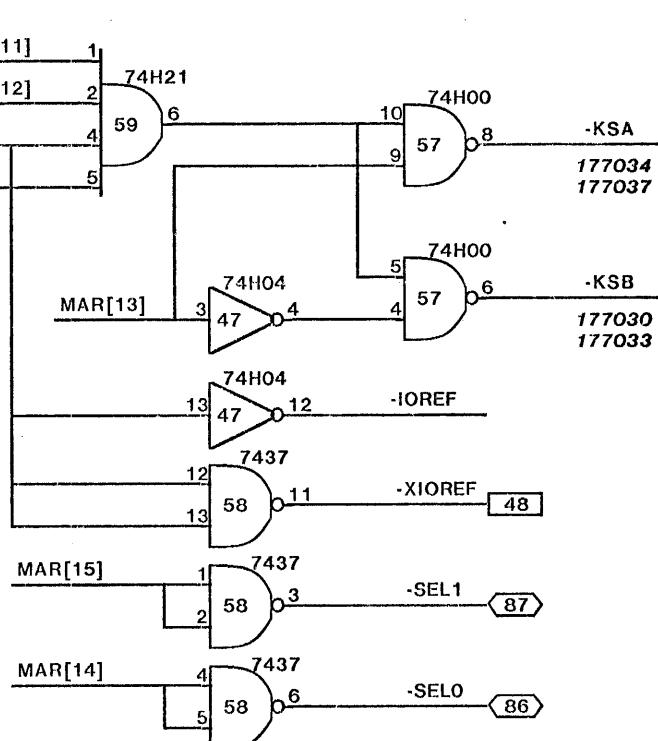
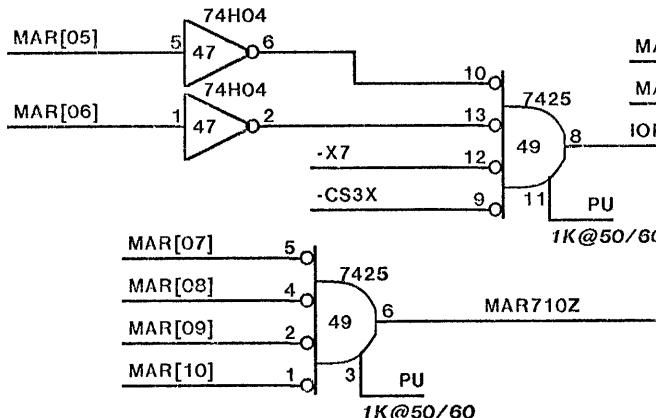
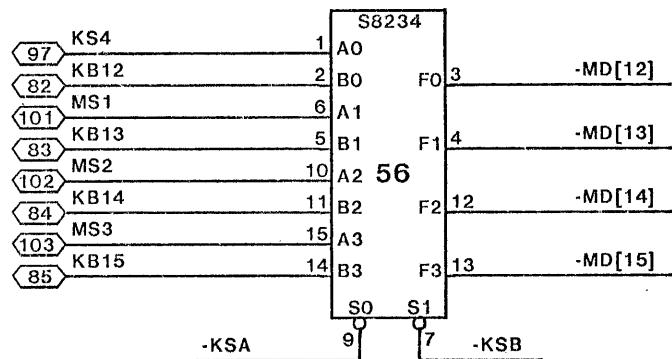
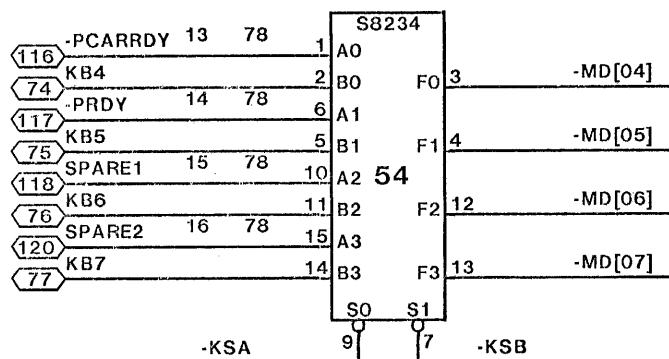
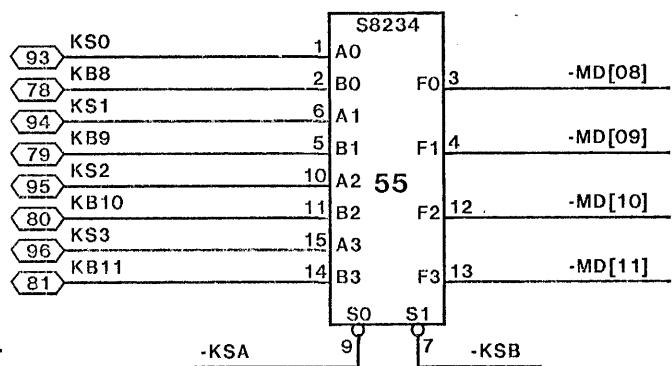
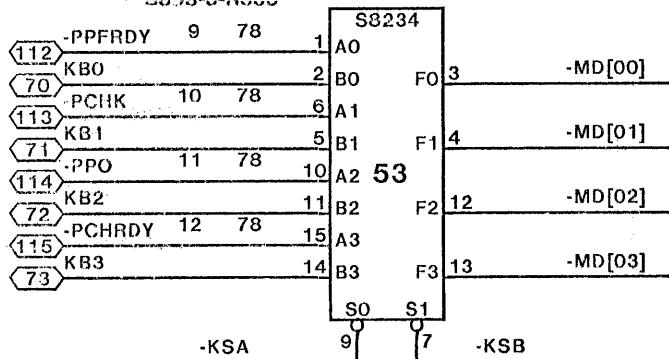
MAR AND DECODE



27 JAN 77

MEMORY INT Page 7

B898-3-R330



28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
m e m o r y	A L u	c o n t r o l	c o n t r o l	d i s p l a y c o n t r o l e	d i s k c o n t r o l e	e t h e r n e t																					

MEMORY

1		62
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		70
10		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		80
20		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		90
30		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		100
40		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		110
50		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		120
60		1
1		2

MEMORY

1		62
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		70
10		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		80
20		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		90
30		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		100
40		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		110
50		1
1		2
2		3
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7		8
8		9
9		120
60		1
1		2

MEMORY

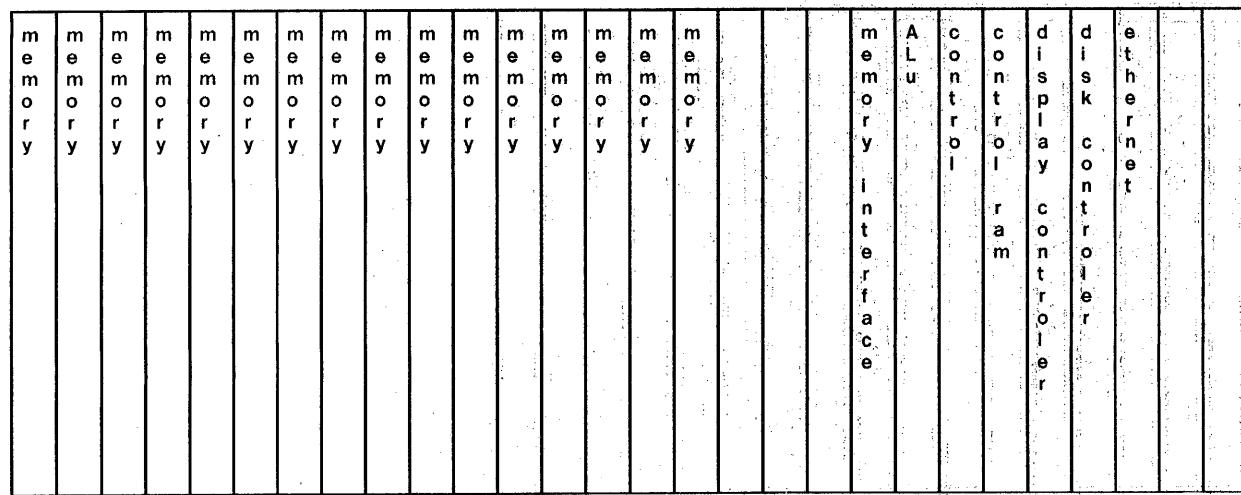
1		62
2		3
3		4
4		5
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6		7
7		8
8		9
9		70
10		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		80
20		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		90
30		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		100
40		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		110
50		1
1		2
2		3
3		4
4		5
5		6
6		7
7		8
8		9
9		120
60		1
1		2

-5volts
+ 5volt

1	62
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	70
10	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	80
20	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	90
30	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	100
40	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	110
50	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	120
60	1
1	2

1	62
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	70
10	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	80
20	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	90
30	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	9
40	100
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
50	110
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
60	120
1	1

1	62
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	70
10	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	80
20	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	90
30	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	100
40	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	110
50	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	120
60	1
1	2



← LEFT SIDE

BACKPLANE VIEW FROM FRONT
OF MACHINE

MEMORY		MEMORY		MEMORY			
1	62	1	62	1	62	-5volts	
2	3	2	3	2	3	+ 5volts	
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	70	9	70	9	70		
10	1	10	1	10	1		
1	2	1	2	1	2		
2	3	2	3	2	3		
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	80	9	80	9	80		
20	1	20	1	20	1		
1	2	1	2	1	2		
2	3	2	3	2	3		
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	90	9	90	9	90		
30	1	30	1	30	1		
1	2	1	2	1	2		
2	3	2	3	2	3		
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	100	9	100	9	100		
40	1	40	1	40	1		
1	2	1	2	1	2		
2	3	2	3	2	3		
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	110	9	110	9	110		
50	1	50	1	50	1		
1	2	1	2	1	2		
2	3	2	3	2	3		
3	4	3	4	3	4		
4	5	4	5	4	5		
5	6	5	6	5	6		
6	7	6	7	6	7		
7	8	7	8	7	8		
8	9	8	9	8	9		
9	120	9	120	9	120		
60	1	60	1	60	1		
1	2	1	2	1	2		

BACK PANEL

5MEM	MOSMEM	MEMINT	ARITH	CONTROL	DISPLAY	DISK
11	10	9	8	7	25	4
1 0 0 -5V	0 0 -5V	STOP 0 0	0 0	SRESET 0 DBSYSCLK STOP 0 0	DBSYSCLK 0 0	
2 0 0 -5V	0 0 -5V	RESET 0 0	0 0	RESET 0 0 DBARC 0 0	DBARC 0 0	RESET 0 0 *SKINC
3 0 0 +5V	NoPINS 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V
4 0 0 +5V	0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V
5 0 0 +5V	0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V	+5V 0 0 +5V
6 0 0 RST7	GND 0 0 RST7	RST7 0 0 WAKENR7	0 0	DDR+ 0 WAKEHRT DDR+ 0 0	WAKEHRT 0 0	*LRT 0 0 *PCLK
7 0 0 RSG	0 0 RSG	RSG 0 0 EN4M4T	LOADL 0 0 LOADR	LOADL 0 0 LADDR KSYSCLK 0 0	SHAKET KSYSCLK 0 0	*SSET(4)
8 0 0 RS4	0 0 RS4	RS4 0 0 MISYSCLK	AUSYSCLK 0 0 LOADT	WAKENST 0 0 LACDT AUSYSCLK 0 0	MISYSCLK WAKERST 0 0	*PDATA
9 0 0 R53	0 0 R53	GND 0 0 R53	GND 0 0	GND 0 0 CSYSCLK	CSYSCLK 0 0	*DISK
10 0 0 R52	0 0 R52	R52 0 0 MIARC	IR(0) 0 0 IR+	IR(0) 0 0 IR+	IR(0) 0 0 MIARC	*ADPACK 0 0 *SRWRDY
11 0 0 R55	0 0 R55	R55 0 0 MAR-	(41) 0 0 AUSYSCLK	(41) 0 0 MAR-	0 0 AUSYSCLK	0 0
12 0 0 R51	0 0 R51	RS1 0 0 STORE	(42) 0 0 *CARRY	(42) 0 0 STORE	0 0	0 0
13 0 0 PC	0 0 PC	PC 0 0 SELR37	(43) 0 0 *SKIP	(43) 0 0 SELR37	0 0	0 0
14 0 0 CE	0 0 CE	CG 0 0 CS1	(44) 0 0 DNS	(44) 0 0 DNS	0 0	0 0
15 0 0 CS0	0 0 CS0	CS0 0 0 CS2	(45) 0 0	(45) 0 0 WAKEDVT	0 0 WAKEDVT	0 0
16 0 0 CS0	0 0 CS0	CS0 0 0 CS3	(46) 0 0	IR(46) 0 0 WAKEDHT	0 0 WAKEDHT	*READY 0 0
17 0 0 WI	0 0 WI	GND 0 0 WI	GND 0 0 IR(0)	GND 0 0 IR(0)	GND 0 0	GND 0 0
18 0 0 DS1	0 0 DS1	DS1 0 0 FF	(48) 0 0	IR(48) 0 0 WAKEHDT	0 0	*SSECT(3) 0 0 WAKEHDT
19 0 0 MD(02)	0 0	DS6 0 0 BUS(04)	(49) 0 0 BUS(04)	IR(49) 0 0 BUS(04)	0 0 BUS(06)	(1) 0 0 BUS(04)
20 0 0 MD(03)	0 0	MD(06) 0 0	(51) 0 0	(51) 0 0 STOPCLK0	(51) 0 0	(51) 0 0
21 0 0 MD(01)	0 0	(51) 0 0	(52) 0 0	(52) 0 0 WAKEHDT0	(52) 0 0	*SSECT(3) 0 0
22 0 0 MD(03)	0 0	(52) 0 0	(53) 0 0	(53) 0 0 DVTAC	(53) 0 0	(53) 0 0
23 0 0 MD(01)	0 0	(53) 0 0	(54) 0 0	(54) 0 0 DHTAC	(54) 0 0	(54) 0 0
24 0 0 MD(04)	0 0	(54) 0 0	(55) 0 0	(55) 0 0 DNTAC	(55) 0 0	(55) 0 0
25 0 0 MD(02)	0 0	(55) 0 0	(56) 0 0	(56) 0 0 KWDTAC	(56) 0 0	(56) 0 0
26 0 0 MD(43)	0 0	MD(06) 0 0	(57) 0 0 SHZERO0	(57) 0 0 SHZERO0	(57) 0 0	(57) 0 0
27 0 0 MD(34)	0 0	GND 0 0	(58) 0 0 GND 0 0	(58) 0 0 GND 0 0	(58) 0 0 GND 0 0	(58) 0 0
28 0 0 MD(05)	0 0	MD(07) 0 0	(59) 0 0	(59) 0 0 KSTAC	(59) 0 0	(59) 0 0
29 0 0 MD(04)	0 0	(59) 0 0	(60) 0 0	(60) 0 0	(60) 0 0	(60) 0 0
30 0 0 MD(05)	0 0	(60) 0 0	(61) 0 0	(61) 0 0 F1(6)	(61) 0 0	(61) 0 0
31 0 0 MD(07)	0 0 MD(12)	(61) 0 0	(62) 0 0	(62) 0 0 F1(1)	(62) 0 0	(62) 0 0
32 0 0 MD(06)	0 0	(62) 0 0	(63) 0 0	(63) 0 0 F1(2)	(63) 0 0	(63) 0 0
33 0 0 MD(06)	0 0	(63) 0 0	(64) 0 0	(64) 0 0 F1(3)	(64) 0 0	(64) 0 0
34 0 0 MD(07)	0 0 MD(13)	MD(13) 0 0 BUS(15)	ZEROBUS0 0 BUS(15)	ZEROBUS0 0 BUS(15)	0 0 BUS(15)	0 0 BUS(15)
35 0 0 MD(08)	0 0 MD(13)	GND 0 0	-MD	GND 0 0	-MD	GND 0 0
36 0 0 MD(09)	0 0 MD(14)	MD(14) 0 0 CONST	F2(0) 0 0	F2(0) 0 0 CONST	0 0	F2(0) 0 0
37 0 0 MD(10)	0 0 MD(15)	MD(15) 0 0 XACT	F2(1) 0 0	-DISP	F2(1) 0 0	-DISP
38 0 0 MD(11)	0 0 READMAR	READPAR 0 0	F2(2) 0 0	EMACT	F2(2) 0 0	EMACT
39 0 0 MAR(03)	0 0 MAR(06)	MAR(06) 0 0 ALU(05)	0 0 ALU(05)	F2(3) 0 0 NEXT(03)	0 0	F2(3) 0 0
40 0 0 MAR(05)	0 0 MAR(05)	(31) 0 0 ALUF0	(41) 0 0 ALUF0	(61) 0 0	0 0	0 0
41 0 0 MAR(07)	0 0 MAR(07)	(42) 0 0	(42) 0 0	(62) 0 0	0 0	0 0
42 0 0 MAR(08)	0 0 MAR(08)	(43) 0 0	(43) 0 0	(63) 0 0	0 0	0 0
43 0 0 MAR(14)	0 0 MAR(14)	(44) 0 0 ALUF3	(64) 0 0 ALUF3	(64) 0 0	0 0	0 0
44 0 0 MAR(11)	0 0 MAR(11)	(65) 0 0 BSZ0	(65) 0 0 BSZ0	(65) 0 0	0 0	0 0
45 0 0 MAR(13)	0 0 MAR(13)	GND 0 0	(66) 0 0	(66) 0 0	GND 0 0	NEXT(05)
46 0 0 MD(08)	0 0 MD(13)	MAR(13) 0 0	(67) 0 0 LSHI	(67) 0 0 LSHI	(67) 0 0	(67) 0 0
47 0 0 MD(09)	0 0 MD(14)	(68) 0 0	(68) 0 0 RSHI	(68) 0 0 RSHI	(68) 0 0	(68) 0 0
48 0 0 MD(10)	0 0 MD(15)	(69) 0 0	(69) 0 0 LCYB	(69) 0 0 LCYB	(69) 0 0	NEXT(09)
49 0 0 MD(11)	0 0 WRITEPAR	WRITEPAR 0 0	(70) 0 0 LALUC0	(70) 0 0 LALUC0	(70) 0 0	BLOCK
50 0 0 MAR(09)	0 0 MAR(09)	MAR(09) 0 0	(71) 0 0 SH(0)	(71) 0 0 SH(0)	(71) 0 0	*RDGATE 0 0 -KDATA
51 0 0 MAR(12)	0 0 MAR(12)	MAR(12) 0 0	(72) 0 0	(72) 0 0 FZ=10	(72) 0 0	*KATGATE 0 0 -KSTAT
52 0 0 MAR(16)	GND 0 0	MAR(16) 0 0	(73) 0 0	(73) 0 0	(73) 0 0	*WRTEATA0 0 0 *STRGEE
53 0 0 +16V	0 0 +16V	GND 0 0	(74) 0 0	(74) 0 0 CURTAC	GND 0 0	CURTAC
54 0 0 +16V	0 0 +16V	RSEL4 0 0 ALU(15)	RSEL4 0 0 ALU(15)	RSEL4 0 0	WAKECURT	GND 0 0
55 0 0 +16V	0 0 +16V	1 0 0	1 0 0	FZ=11	FZ=11	*RESTOR 0 0
56 0 0 +16V	0 0 +16V	2 0 0	2 0 0	2 0 0	2 0 0	*HEAD 0 0
57 0 0 +20V	NoPINS 0 0 +20V	2 0 0	2 0 0	2 0 0	2 0 0	*CYL(0) 0 0 *CYL(1)
58 0 0	0 0	3 0 0	3 0 0	3 0 0	3 0 0	*CYL(0) 0 0 *CYL(3)
59 0 0 +20V	0 0 +20V	RSEL4 0 0 BS4	RSEL4 0 0 BS4	RSEL4 0 0	BS4	*CYL(4) 0 0 *CYL(5)
60 0 0 +20V	0 0 +20V	0 0 BSI	L(15) 0 0	L(15) 0 0 BSI	0 0	*CYL(6) 0 0 *CYL(7)
61 0 0 +20V	0 0 +20V	PARTAC 0 0 BS2	0 0	PARTAC 0 0 BS2	0 0	*CYL(8) 0 0

ALTO MEM. 2

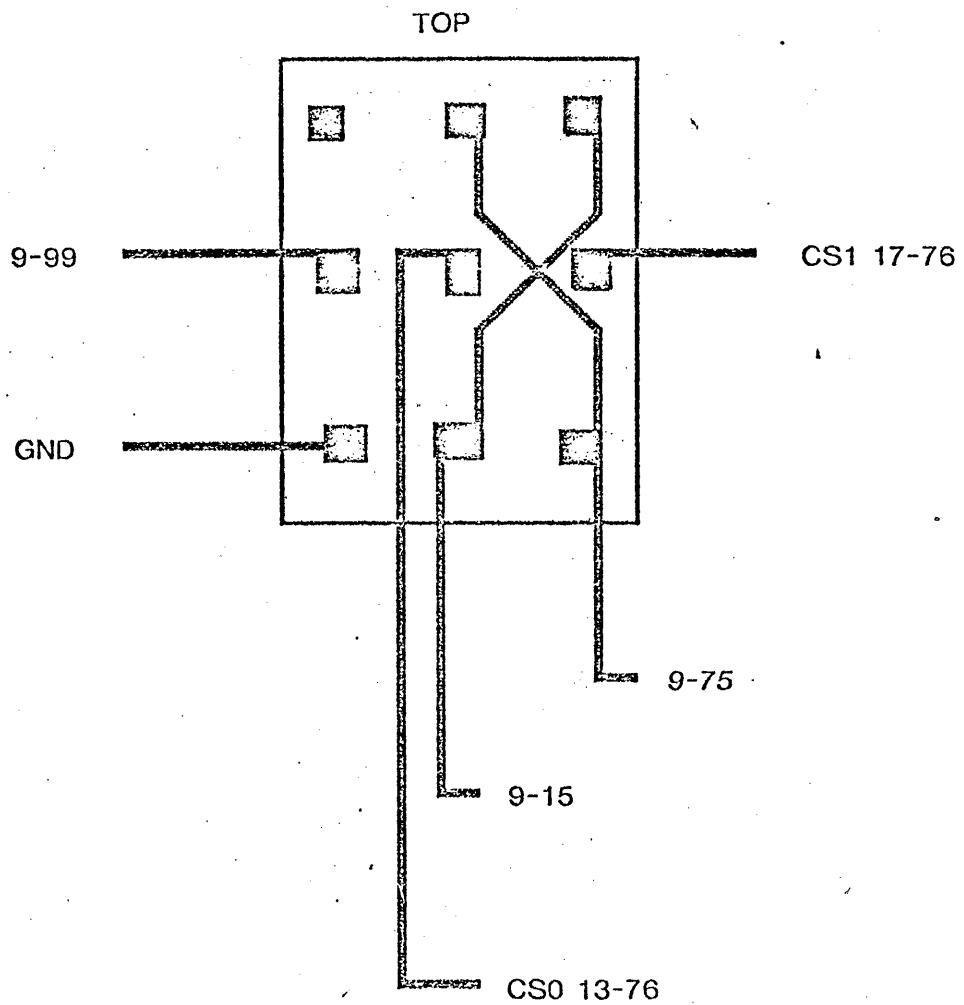
ALTO MEMORY ARRANGEMENT PRINTED CIRCUIT VERSION

ADDRESS MINIMUM	ADDRESS MAXIMUM	CARD ROW	CARD SLOT	
000000	003777	0		EVEN ADDRESSES
004000	007777	1		13 - BITS 0-11
010000	013777	2		14 - BITS 12-15 & PARITY
014000	017777	3		
020000	023777	4		ODD ADDRESSES
024000	027777	5		15 - BITS 0-11
030000	033777	6		16 - BITS 12-15 & PARITY
034000	037777	7		
040000	043777	0		EVEN ADDRESSES
044000	047777	1		17 - BITS 0-11
050000	053777	2		18 - BITS 12-15 & PARITY
054000	057777	3		
060000	063777	4		ODD ADDRESSES
064000	067777	5		19 - BITS 0-11
070000	073777	6		20 - BITS 12-15 & PARITY
074000	077777	7		
100000	103777	0		EVEN ADDRESSES
104000	107777	1		21 - BITS 0-11
110000	113777	2		22 - BITS 12-15 & PARITY
114000	117777	3		
120000	123777	4		ODD ADDRESSES
124000	127777	5		23 - BITS 0-11
130000	133777	6		24 - BITS 12-15 & PARITY
134000	137777	7		
140000	143777	0		EVEN ADDRESSES
144000	147777	1		25 - BITS 0-11
150000	153777	2		26 - BITS 12-15 & PARITY
154000	157777	3		
160000	163777	4		ODD ADDRESSES
164000	167777	5		27 - BITS 0-11
170000	173777	6		28 - BITS 12-15 & PARITY
174000	177777	7		

WORD BIT	EVEN		WORD BIT	CARD COLUMN	
	CARD	SLOTS		COLUMN	ROW
0	0		12	7	0
1	1		13	8	
2	2		14	9	
3	3		15	10	
4	4		PAR	11	
5	5				
6	6				
7	7				
8	8				
9	9				
10	10				
11	11				

odd
slots

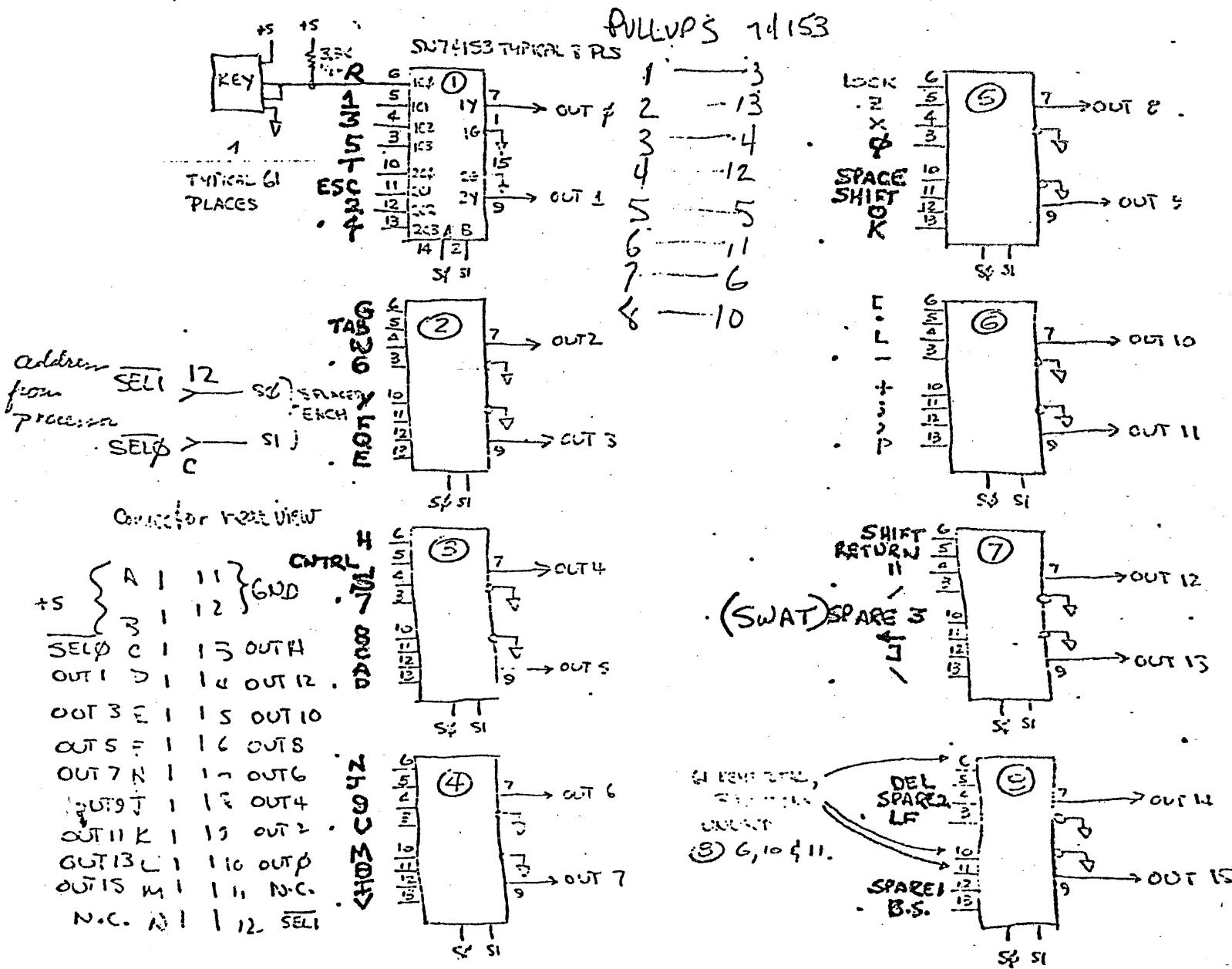
ALTO MEMORY SWITCH



12-18 Output S10 high when
key depressed

KERTESZ, ARD:

The keyboard has 61 keys. It will receive a 2 bit address from the processor which will select one of four groups of key masks to be gated to the 16 output lines. Output times are slow when key is depressed. The keyboard requires an 18 line (plus power) interface to the processor; 16 data lines and two address lines. The four groups include 16, 16^{and} 13 keys respectively. The relation between keys and bits in the output word is not important, and will be determined primarily by PC layout considerations.



CABLE: KEYBOARD CABLE (EXTERNAL)

PG 2 CF3

SIGNAL	FROM CONNECTOR/PIN	VIA CABLE/COLOR	TO CONNECTOR/PIN	
GONO	A/ 1	#26		BUTTON NORMALLY OPEN CONTACT BLUE /BLACK
KBO	2		D/ 10	VIOLET
KB1	3		D/ D	YELLOW /BLACK
KB2	4		D/ 9	BLUE
KB3	5		D/ E	YELLOW /BROWN
KB4	6		D/ 8	GREEN
KB5	7		D/ F	YELLOW /RED
KB6	8		D/ 7	YELLOW
KB7	9		D/ H	YELLOW /ORANGE
KB8	10		D/ 6	ORANGE
KB9	11		D/ J	YELLOW /GREEN
KB10	12		D/ 5	RED
KB11	13		D/ K	YELLOW /BLUE
KB12	14		D/ 4	BROWN
KB13	15		D/ L	YELLOW /VIOLET
KB14	16		D/ 3	BLACK
KB15	17		D/ M	YELLOW /GREY
SEL0'	18		D/ C	WHITE
SEL1'	19		D/ 12	GREY
KCS0	20		C/ 11	ORANGE /BLACK
KSI	21		C/ 10	ORANGE /BROWN
KCS2.	22		C/ 9	ORANGE /RED
KS3	23		C/ 8	ORANGE /BLUE
KS4	24		C/ 7	ORANGE /VIOLET
MS1	25		B/ 14	WHITE /BLACK
MS2	26		B/ 16	WHITE /BROWN
MS3	27		B/ 15	WHITE /RED
MX1	28		B/ 2	WHITE /ORANGE
MX2	29		B/ 1	WHITE /YELLOW
MY1	30		B/ 3	WHITE /GREEN
MY2	31	↓	B/ 4	WHITE /BLUE

SIGNAL	FROM CONNECTOR/PIN	VIA CABLE/COLOR	TO CONNECTOR/PIN	
GONC	A/ 32	#26		BUTTON NORMALLY CLOSED CONTACT BLUE/BROWN
MOUSE +5	D/ A	#24	B/ 6-	WHITE
MOUSE GROUND	D/ 1	#24	B/ 19.	THESE ARE ISOLATED WIRES, NOT PART OF THE CABLE
KEYSET GROUND	D/ 1	#24	C) 19	BLACK
KEYBOARD +5	A/35	#18	D/ A	WHITE
KEYBOARD -GND	A/37	#18	D/ 1'	BLACK

SIGNAL	FROM CONNECTOR/PIN	VIA CABLE/COLOR	TO CONNECTOR/PIN
GONO	A/ 64	#34	B/ 1
P.PFSTR'	65		C/ 1
PREST'	66		C/ 2
PRIB'	67		C/ 3
PCHSTR'	68		C/ 4
PCARSTR'	69		C/ 5
KB0	70		B/ 2
KB1	71		B/ 3
KB2	72		B/ 4
KB3	73		B/ 5
KB4	74		B/ 6
KB5	75		B/ 7
KB6	76		B/ 8
KB7	77		B/ 9
KB8	78		B/ 10
KB9	79		B/ 11
KB10	80		B/ 12
KB11	81		B/ 13
KB12	82		B/ 14
KB13	83		B/ 15
KB14	84		B/ 16
KB15	85		B/ 17
SEL0'	86		B/ 18
SEL1'	87		B/ 19
PDATA1024'	88		C/ 6
PDATA112'	89		C/ 7
PDATA256'	90		C/ 8
PDATA128'	91		C/ 9
KS0	93		B/ 20
KS1	94		B/ 21
KS2	95		B/ 22

KEYBOARD / PRINTER INTERNAL CABLE

3 4

2/14/74

SIGNAL	FROM CONNECTOR/PIN	VIA CABLE/COLOR	TO CONNECTOR/PIN
KS3	A/ 96	#24	B/ 23
KS4	97		B/ 24
PDATA4'	98		C/ 10
PDATA32'	99		C/ 11
PDATA16'	100		C/ 12
MS1	101		B/ 25
MS2	102		B/ 26
MS3	103		B/ 27
PDATA8'	104		C/ 13
PDATA4'	105		C/ 14
PDATA2'	106		C/ 15
PDATA1'	107		C/ 16
MX1	108		B/ 28
MX2	109		B/ 29
MY1	110		B/ 30
MY2	111		B/ 31
PPFRDY'	112		C/ 17
PCHK'	113		C/ 20
PPD'	114		C/ 21
PCHRDY'	115		C/ 22
PCARDY'	116		C/ 23
PRDY'	117		C/ 24
SPARE1	120		B/ 33
SPARE2	122		B/ 34
GONE	121		B/ 32
PRINTER LOGIC GND	56		C/ 25
" " "	57		C/ 26
" " "	59		C/ 27
" " "	60		C/ 28
" " "	61	V	C/ 29

KEYBOARD / PRINTER INTERNAL CABLE

10 OF NOV
4 4 2/14/74

ALTO

DISPLAY EXTERNAL CABLE

1051

4-15-74 CT.

ALTO END

MONITOR END

LENGTH = 15' 0"

2

WHT

1

BLK

12

RED

4

BLK

8

GRN

15

BLK

6 F

HORIZONTAL
SYNC

100.52 1/4W

9 G

VERTICAL
SYNC

100.00 1/4W

8 E

100.00 1/4W

VIDEO

10 1/2 L

GROUND

CANNON

CABLE:

AMPHENOL

GTH

PART:

BELDEN # 9745

#225-21031-101

(1) DA 51210-1 SHELL

CONNECTOR

(1) DA 51210-1 PLASTIC JUNCTION SHELL

(5) 030-1952-000 PIN

1 REQD / SYSTEM

(1) DA 51220-1 SLIDING LOCK RETAINER

PIN INSERTION/EXTRACTION TOOL: CIST 30HDB

CRIMP TOOL M22520/1-61

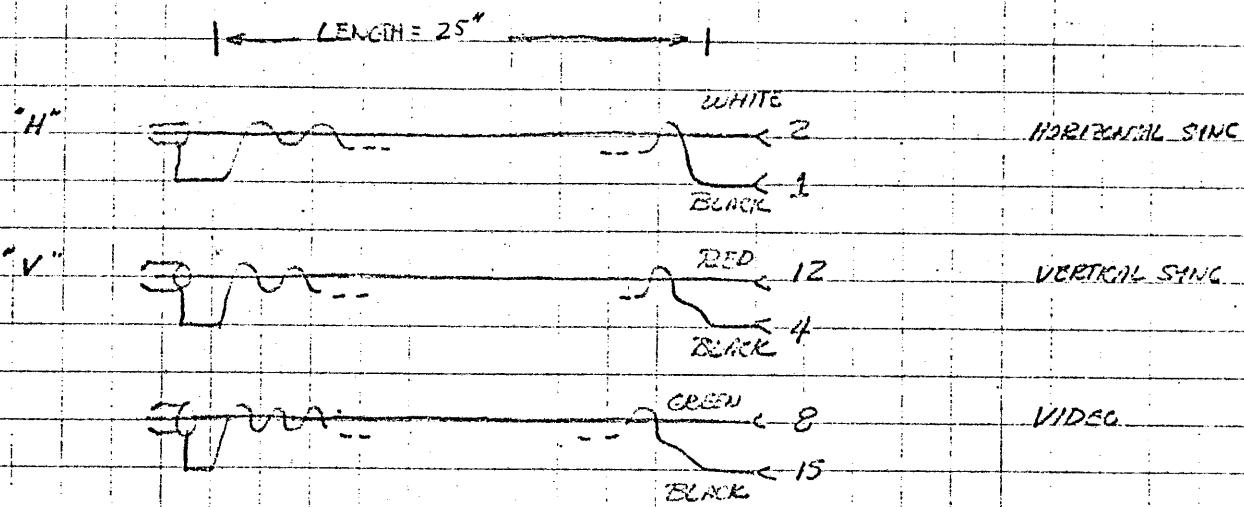
LOCATOR TH185

Auto

DISPLAY INTERNAL CABLE

1 OF 1

4-15-74 OT



- (3) AMP 20197-3 CONNECTOR PIN
(3) AMP 329006 FEMALE

(6) 030-1953-000 FEMALE CONTACT

CRIMP TOOL IS AMP # 45634-3

1 REQ'D/SYSTEM

SIGNAL	FROM CONNECTOR/PIN	VIA CABLE/COLOR	TO CONNECTOR/PIN	
TERMINATOR +5	A/ 1		B/ PP	
GROUND	59		D	
GROUND	60		DD	
GROUND	61		WW	
DISK'	67		R	
DISK	69		L	
CYL(7)'	73		N	
SKINC'	74		TT	
RDCLK'	76		A	
READY'	78		U	
RESTOR'	79		VV	
KSECT(3)	80		CC	
CYL(3)'	81		FF	
WRGTGATE'	82		EE	
SRWTRDY'	83		F	
KSECT(1)	84		KK	
KSECT (2)	85		JJ	
CYL(8)'	86		LL	
RDDATA'	87		C	
CYL (4)'	88		X	
CYL (1)'	89		BB	
CYL(5)'	90		J	
WRDATA'	91		B	
CYL(6)'	93		RR	
HEAD'	94		AA	
STROBE'	96		SS	
SECT (4)'	100		W	
RDGATE'	103		E	
LAI'	104		XX	
ADRACK'	105		NN	

THESE PINS ARE COMMON ON THE PADDLEBOARD

Disk Data Cable

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ALTO

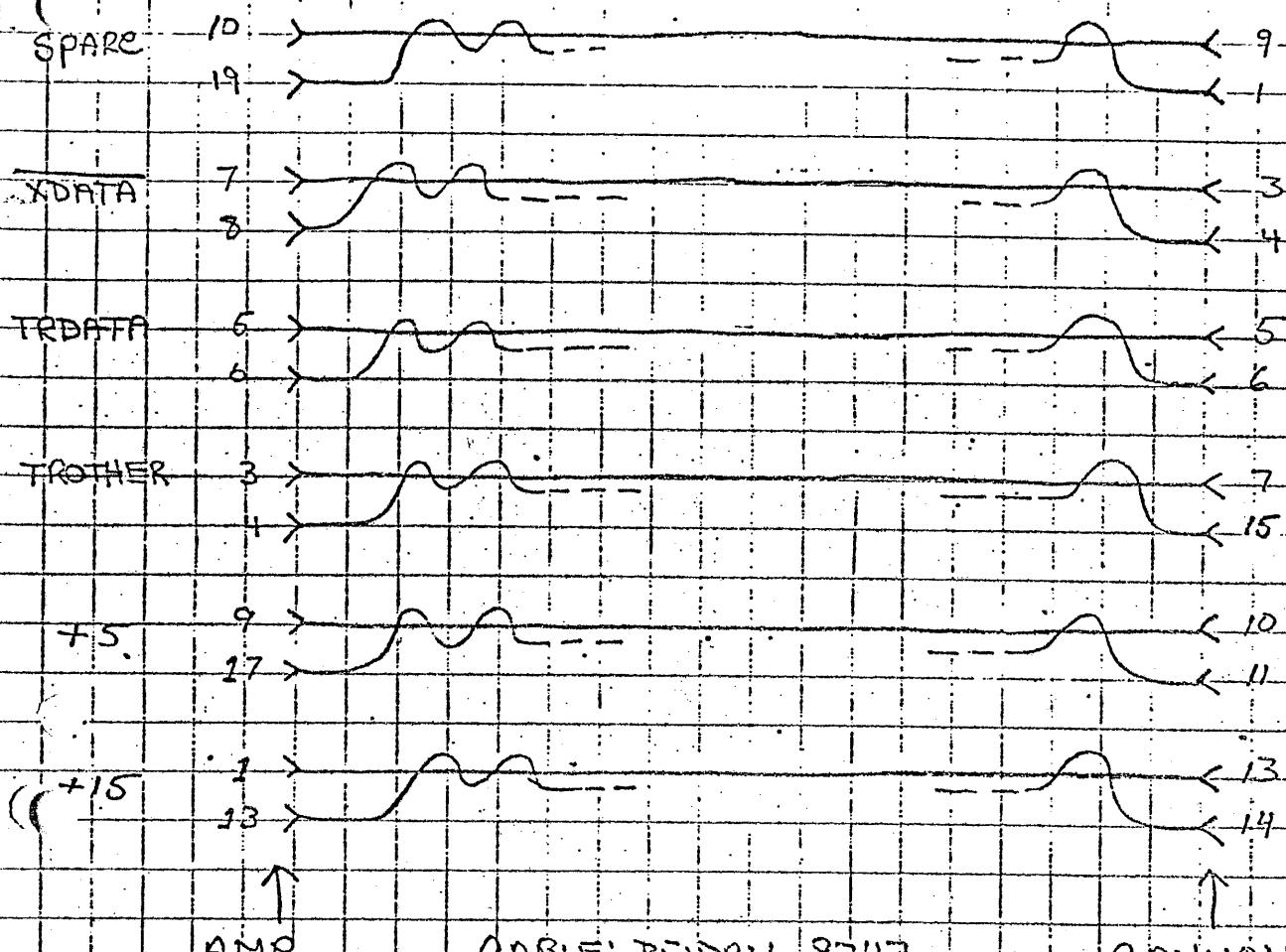
SIGNAL NAME	ALTO BUS INFORMATION	Alto 1 37 PIN CANNON	Alto 2 25 PIN CANNON	WIRE COLOR
-PPFSTR	BUSOUT(00)	1	13	
-PREST	BUSOUT(01)	2	25	
-PRIB	BUSOUT(02)	3	12	
-PCHSTR	BUSOUT(03)	4	24	
-PCARSTR	BUSOUT(04)	5	11	
-PDATA1024	BUSOUT(05)	6	23	
-PDATA512	BUSOUT(06)	7	10	
-PDATA256	BUSOUT(07)	8	22	
-PDATA128	BUSOUT(08)	9	9	
-PDATA64	BUSOUT(09)	10	21	
-PDATA32	BUSOUT(10)	11	8	
-PDATA16	BUSOUT(11)	12	20	
-PDATA8	BUSOUT(12)	13	7	
-PDATA4	BUSOUT(13)	14	19	
-PDATA2	BUSOUT(14)	15	6	
-PDATA1	BUSOUT(15)	16	18	
-PPFRDY	BUSIN(00)	17	5	
-PCHK	BUSIN(01)	20	17	
-PPO	BUSIN(02)	21	4	
-PCHRDY	BUSIN(03)	22	16	
-PCARRDY	BUSIN(04)	23	15	
-PRDY	BUSIN(05)	24	3	
PRINTERGND	LOGICGND	25	14	
PRINTERGND	LOGICGND	26	1	
PRINTERGND	LOGICGND	27		
PRINTERGND	LOGICGND	28		
PRINTERGND	LOGICGND	29		
POWERGND	LOGICGND	18		
PRINTER + 15V	+ 15V	19		
PRINTER -15V	- 15V	36		
PRINTER +5V	VCC	37		

ETHERNET INTERNAL CABLE 1 of 1 6/26/74 DB

ATO I

Length 26"

1 to 1 for
ATO I



QTY

PART

- (1) 87133-6 SHELL
(10) 87165-1 PINS

QTY

PART

- (1) DAC 155 SHELL
(10) 030-1953-000
| FEMALE CONTACT

CRIMP TOOL IS AMP 90289-1

(2)

EXTRACTION TOOL IS AMP 91084-1

D53018 SLIDING LOCK

1 Required / System

20 10

19 9

Pin numbering

18 8

FOR AMP CONNECTOR - CABLE END SHOWN.

17 7

16 6

NOTE that the socket is NOT KEYED. Which
ever way you position it is OK.

15 5

14 4

13 3

12 2

11 1