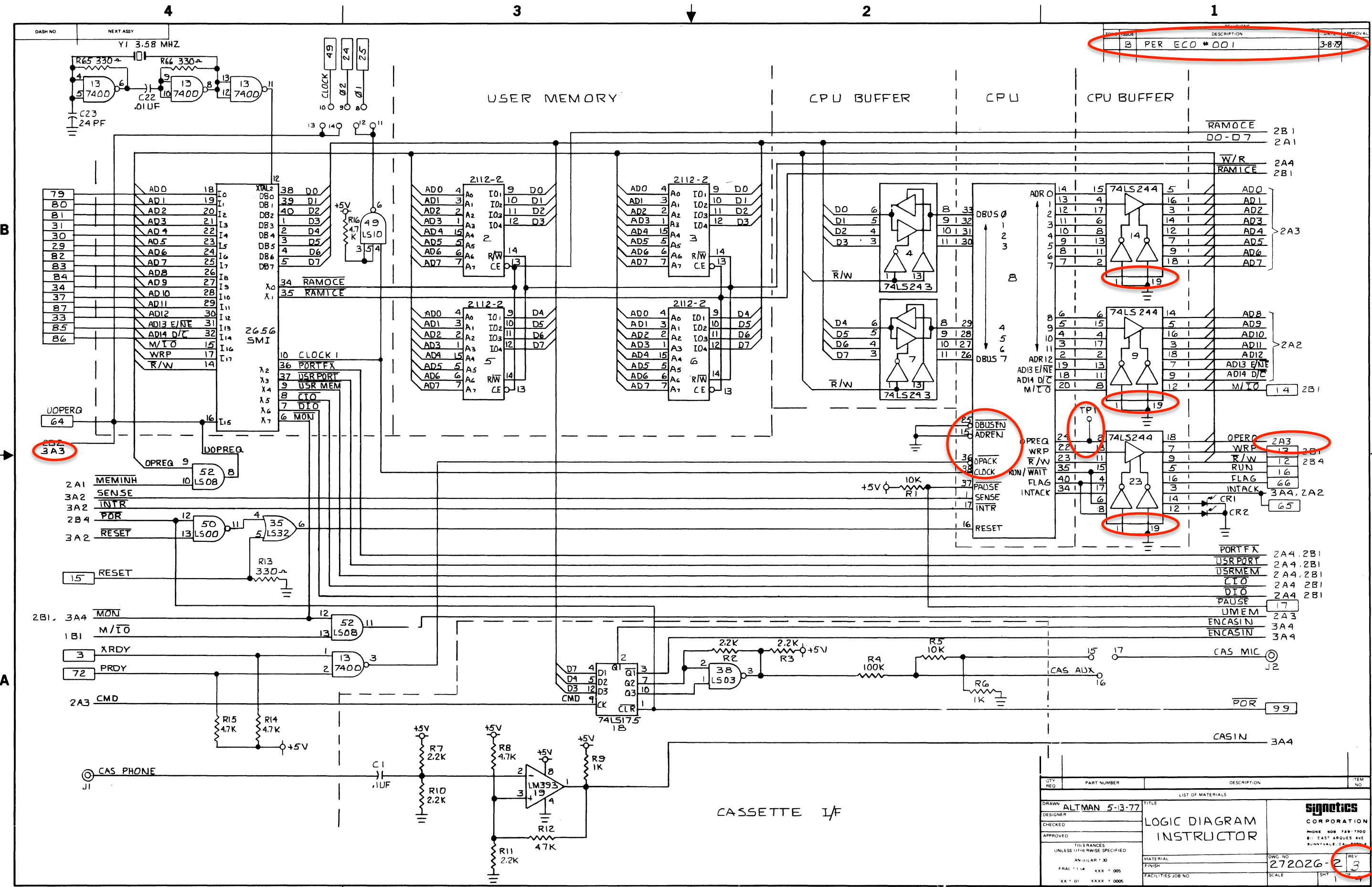
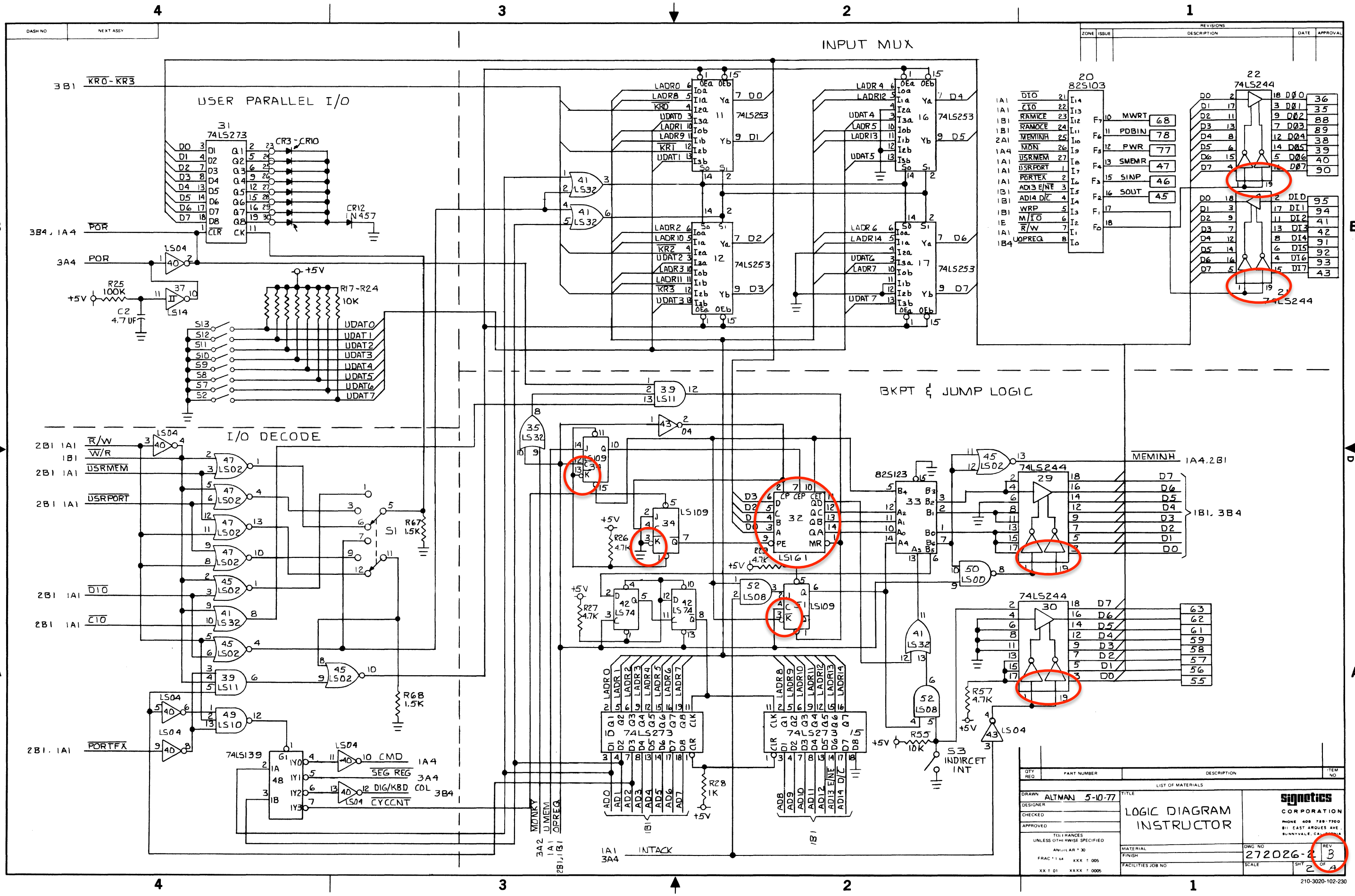


ISSUE	DESCRIPTION	DATE	APPROVAL
B	PER ECO #001	3-8-79	



QTY	PART NUMBER	DESCRIPTION	TEM
REQ			NO
LIST OF MATERIALS			
DRAWN	ALTMAN 5-13-77	TITLE	
CHECKED		LOGIC DIAGRAM	
APPROVED		INSTRUCTOR	
TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL	DWG NO
AN INCHES ± .00		FINISH	272026-2
FRAC 1/16 XXX ± .005		FACILITIES JOB NO	REV 3
XX * 01 XXXX ± .0005		SCALE	1/16



20 82S103		22 74LS244	
Symbol	Pin	Symbol	Pin
DIO	21	D0	2
CIO	22	D1	17
RAMICE	23	D2	11
RAMOCE	24	D3	13
MEMINH	25	D4	8
MDN	26	D5	6
USRMEM	27	D6	15
USRPORT	1	D7	4
PORTEX	2		
AD3 E/NE	3		
AD14 D/C	4		
WRP	5		
M/I/O	6		
R/W	7		
UPREG	8		

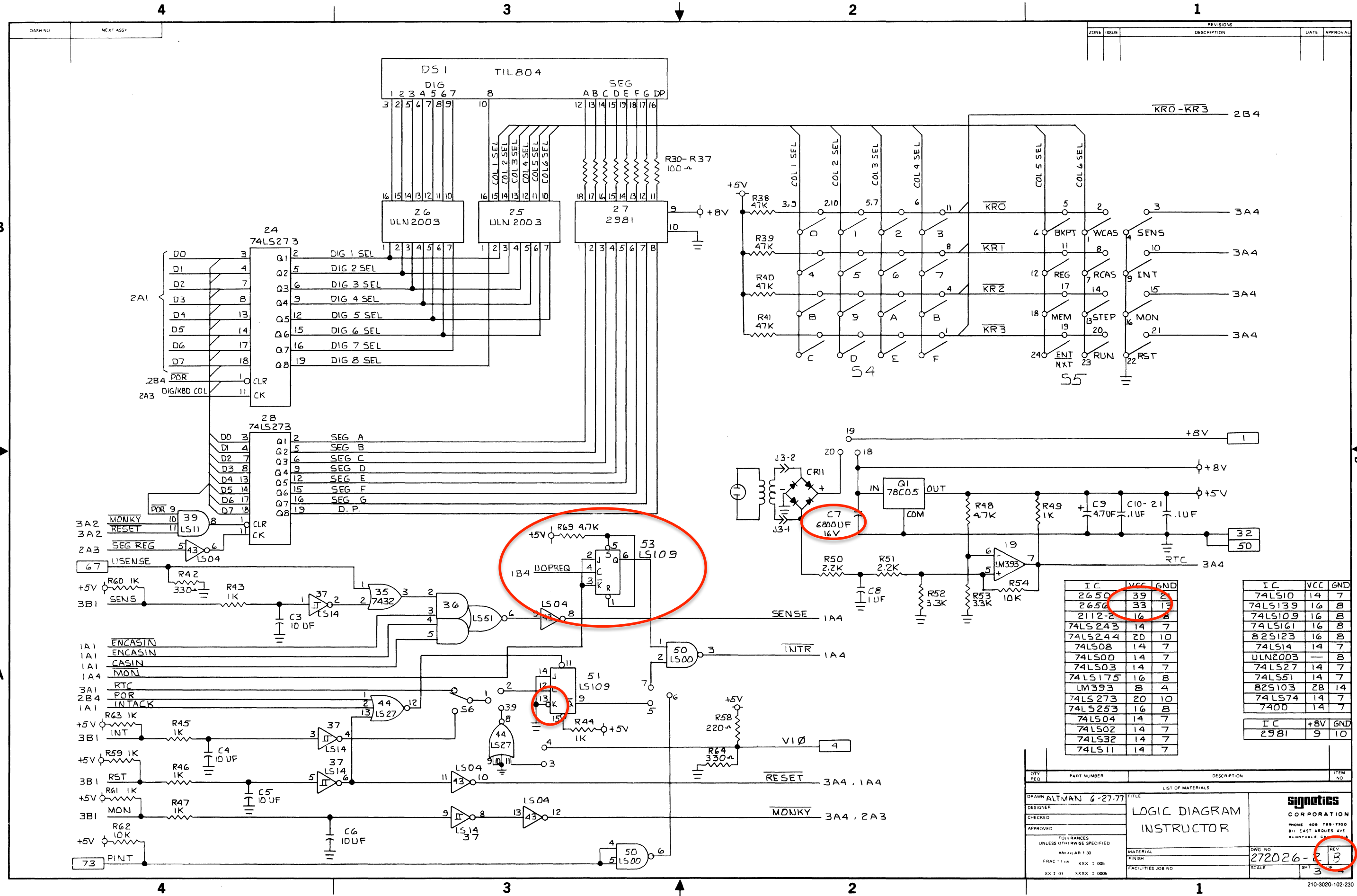
Symbol	Pin	Symbol	Pin
F7	10	MWRT	68
F6	11	PDBIN	78
F5	12	PWR	77
F4	13	SMEMR	47
F3	15	SINP	46
F2	16	SOUT	45
F1	17		
F0	18		

QTY	PART NUMBER	DESCRIPTION	ITEM NO.

DRAWN		TITLE	
ALTMAN	5-10-77	LOGIC DIAGRAM INSTRUCTOR	
CHECKED			
APPROVED			

DESIGNER		SIGNETICS CORPORATION	
ALTMAN	5-10-77	PHONE 408 738-7700	
		811 EAST ARQUES AVE.	
		BUNNYVALE, CA 94588	

DWG NO.	REV
272026-2	3



REVISIONS		DATE	APPROVAL
ZONE	ISSUE	DESCRIPTION	

2656 SMI PROGRAM CODING

FUNCTION SELECT	X0	X1	X2	X3	X4	X5	X6	X7			
	E	E	E	E	E	E	E	E	8	9	10
A0	X	X	X	1	1	X	X	X	1	X	X
A1	X	X	X	1	1	X	X	X	1	X	X
A2	X	X	X	1	1	X	X	X	1	X	X
A3	X	X	1	0	1	X	X	X	1	X	X
A4	X	X	1	0	1	X	X	X	1	X	X
A5	X	X	1	0	1	X	X	X	1	X	X
A6	X	X	1	0	1	X	X	X	1	X	X
A7	X	X	1	0	1	X	X	X	1	X	X
A8	0	1	X	X	1	X	X	X	1	X	X
A9	0	0	X	X	1	X	X	X	1	X	X
A10	0	0	X	X	1	X	X	X	1	X	X
A11	0	0	X	X	1	X	X	X	0	0	1
A12	0	0	X	X	0	X	X	1	1	1	1
A13	0	0	1	1	0	0	0	0	0	0	0
A14	0	0	X	X	0	0	1	0	0	0	0
OPREQ	1	1	1	1	1	1	1	X	1	1	1
MIO	1	1	0	0	1	0	0	X	1	1	1
WRP	1	1	1	1	1	1	1	X	1	1	1

CLOCK SOURCE XTAL
 CLOCK DIVIDE BY/4
 NO DISABLE

RAM OCE
 RAM ICE
 PORT FX
 USR PORT
 USR MEM
 CIO
 DIO
 MON
 SMI PORT
 SMI RAM
 SMI ROM

82S123 PROGRAM TABLE

ADDRESS						OUTPUT						DESCRIPTION			
HEX	OCTAL	A4	A3	A2	A1	A0	B7	B6	B5	B4	B3		B2	B1	B0
00	00	0	0	0	0	0	0	1	1	1	0	1	0	0	∅∅
01	01	0	0	0	0	1	0	1	0	1	0	0	1	1	IF
02	02	0	0	0	1	0	0	1	0	1	0	0	1	0	IB
03	03	0	0	0	1	1	0	1	0	1	0	0	0	0	∅∅
04	04	0	0	1	0	0	0	0	0	0	0	0	0	0	IDLE
05	05	0	0	1	0	1	0	0	0	0	0	0	0	0	IDLE
06	06	0	0	1	1	0	0	0	0	0	0	0	0	0	
07	07	0	0	1	1	1	0	0	0	0	0	0	0	0	IDLE
08	10	0	1	0	0	0	0	0	0	1	0	0	0	0	
09	11	0	1	0	0	1	0	0	0	1	0	0	0	0	
0A	12	0	1	0	1	0	0	0	0	1	0	0	0	0	
0B	13	0	1	0	1	1	0	0	0	1	0	0	0	0	
0C	14	0	1	1	0	0	0	0	0	1	0	0	0	0	
0D	15	0	1	1	0	1	0	0	0	1	0	0	0	0	
0E	16	0	1	1	1	0	0	0	0	1	0	0	0	0	
0F	17	0	1	1	1	1	0	0	0	1	0	0	0	0	
10	20	1	0	0	0	0	0	0	0	1	0	0	0	0	
11	21	1	0	0	0	1	0	0	0	1	0	0	0	0	DIRECT INT VECTOR
12	22	1	0	0	1	0	0	1	1	1	0	0	1	1	IF
13	23	1	0	0	1	1	0	1	0	1	0	0	1	0	IB
14	24	1	0	1	0	0	0	1	0	1	0	0	0	0	∅∅
15	25	1	0	1	0	1	0	0	0	0	0	0	0	0	
16	26	1	0	1	1	0	0	0	0	0	0	0	0	0	
17	27	1	0	1	1	1	0	0	0	0	0	0	0	0	
18	30	1	1	0	0	0	0	0	0	0	0	0	0	0	
19	31	1	1	0	0	1	0	0	0	1	0	0	0	0	INDIRECT INT VECTOR
1A	32	1	1	0	1	0	0	0	0	1	0	0	0	0	HI ADDR BYTE
1B	33	1	1	0	1	1	0	0	0	1	0	0	0	0	LO ADDR BYTE
1C	34	1	1	1	0	0	0	1	1	1	0	0	1	1	IF
1D	35	1	1	1	0	1	0	1	0	1	0	0	1	0	IB
1E	36	1	1	1	1	0	0	1	0	1	0	0	0	0	∅∅
1F	37	1	1	1	1	1	0	0	0	0	0	0	0	0	

DATA BUS ENABLE
 LAST ADDR LOAD
 CNTR STOP
 D6, D7
 D3, D4
 D0, D1, D2



82S103 PROGRAM TABLE

OUTPUT POLARITY	INPUT VARIABLE																	
	I0	I1	I2	I3	I4	I5	I6	I7	I8	I9	IA	IB	IC	ID	IE	IF		
F0	L	H	H	-	-	-	-	H	H	H	H	H	H	H	H	H	-	ENABLE JUTPUT DATA
F1	L	H	L	-	-	-	-	H	H	H	H	H	H	H	H	H	-	ENABLE INPUT DATA
F2	H	-	H	L	-	-	-	H	H	H	H	H	H	H	H	H	-	SOUT
F3	H	-	L	L	-	-	-	H	H	H	H	H	H	H	H	H	-	SINP
F4	H	-	L	H	-	-	-	H	H	H	H	H	H	H	H	H	-	SMEMR
F5	L	H	H	-	H	-	-	H	H	H	H	H	H	H	H	H	-	PWR
F6	H	H	L	-	-	-	-	H	H	H	H	H	H	H	H	H	-	PDBIN
F7	H	H	H	-	-	-	-	H	H	H	H	H	H	H	H	H	-	MWRT

ACTIVE HIGH = H
 ACTIVE LOW = L

OPREQ
 R/W
 MIO
 WRP
 AD14-D/C
 AD13-E/NE
 PORTFX
 USRPORT
 MEMEM
 MON
 MEMINH
 RAMOCE
 RAMICE
 CIO
 DIO

QTY REQ	PART NUMBER	DESCRIPTION	ITEM NO
LIST OF MATERIALS			
DRAWN		TITLE	
DESIGNER		INSTRUCTOR	
CHECKED		PROGRAM TABLES	
APPROVED		SIGNETICS CORPORATION	
TOLERANCES UNLESS OTHERWISE SPECIFIED		PHONE 408 788-7300	
ANGULAR ± 30		811 EAST SROUES AVE	
FRAI ± .14 XXX ± .005		SUNNYVALE, CALIFORNIA	
XX ± .01 XXXX ± .0005		DWG NO 272026-2	
FACILITIES JOB NO		SCALE	
		REV B	
		SHT 4 OF 4	