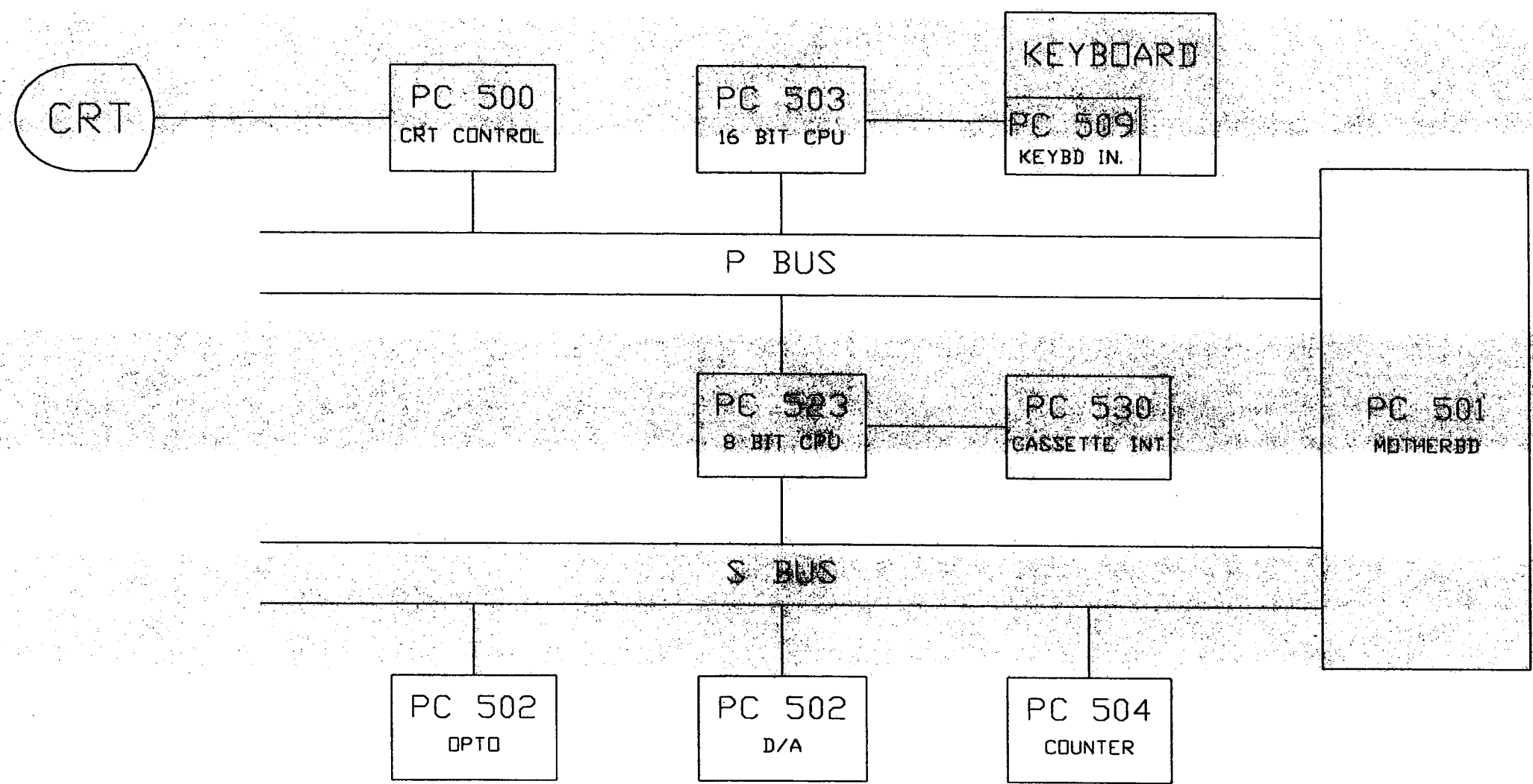


# WIRING DIAGRAMS

## CRUSADER "M"

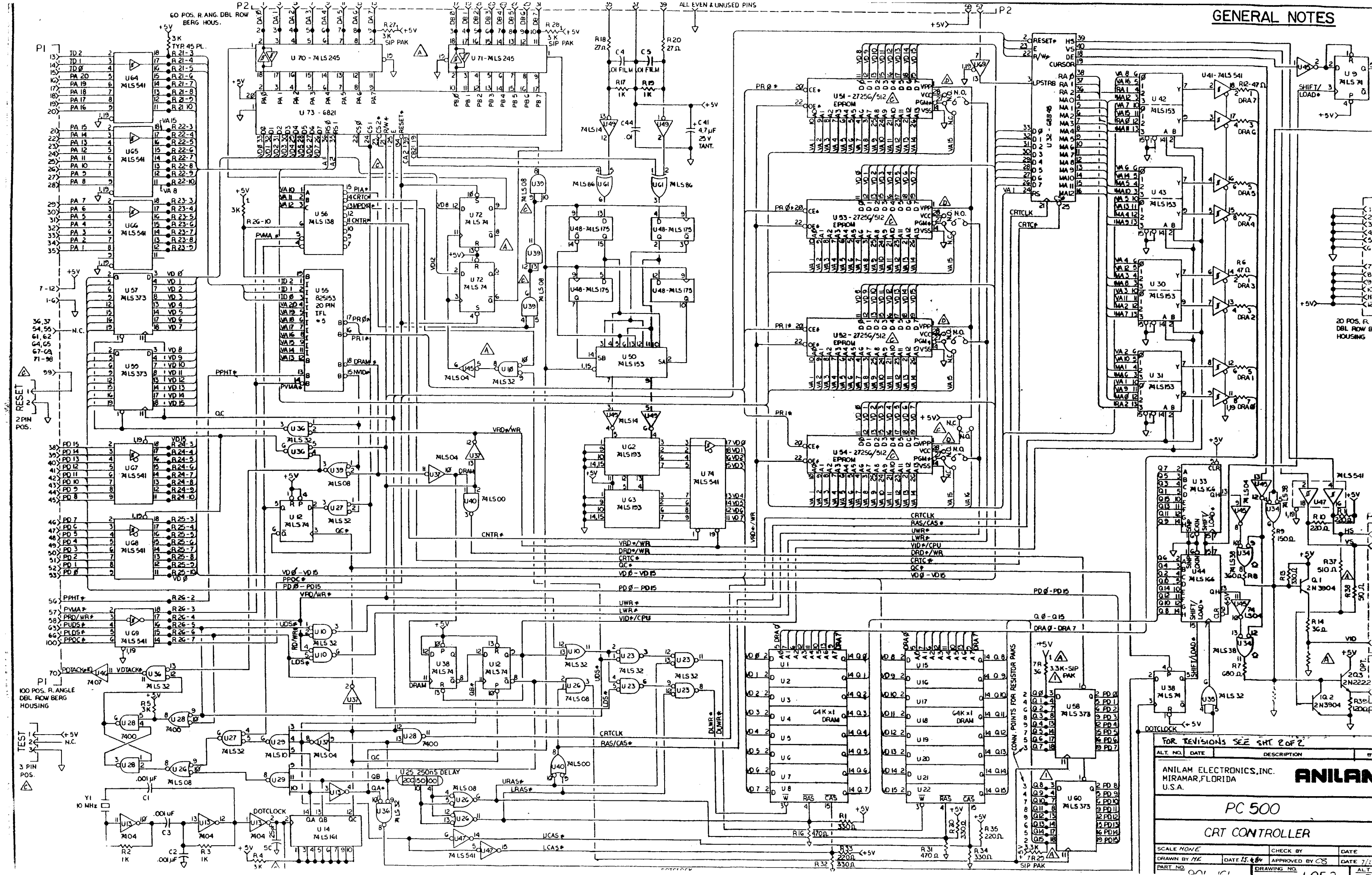
REV.	DATE	DESCRIPTION	
ANILAM Inc. Miramar, Florida U.S.A.		<b>ANILAM</b>	
DESCRIPTION			
SCALE		CHECK BY	DATE
DRAWN BY	DATE	APP'D BY	DATE
DRAWING NO.		70000210	
		SHT	OF

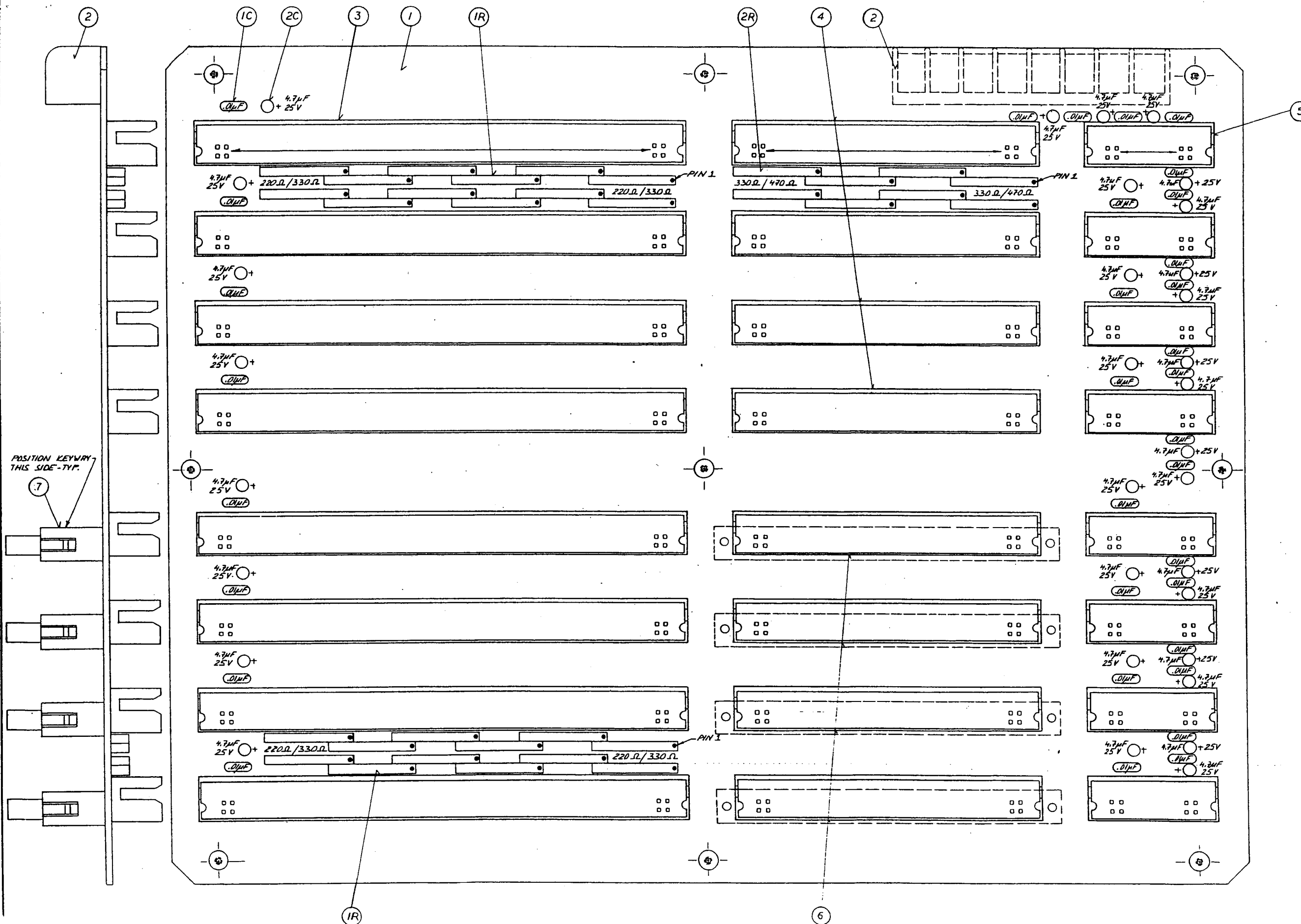


REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.		<b>ANILAM</b>	
DESCRIPTION			
CRUS M BLOCK DIAGRAM			
SCALE		CHECK BY	DATE
DRAWN BY	DATE	APP'D BY	DATE
DRAWING NO.			REV.
SHT			OF

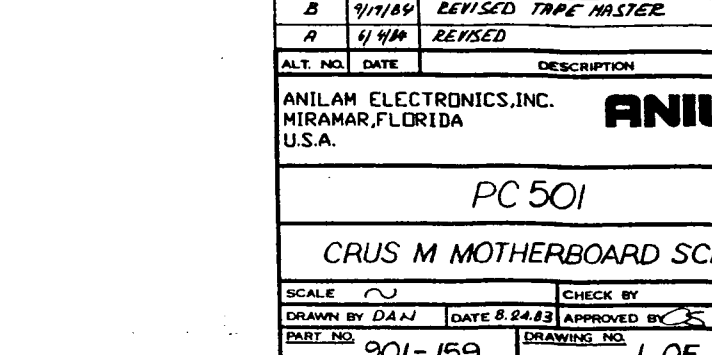
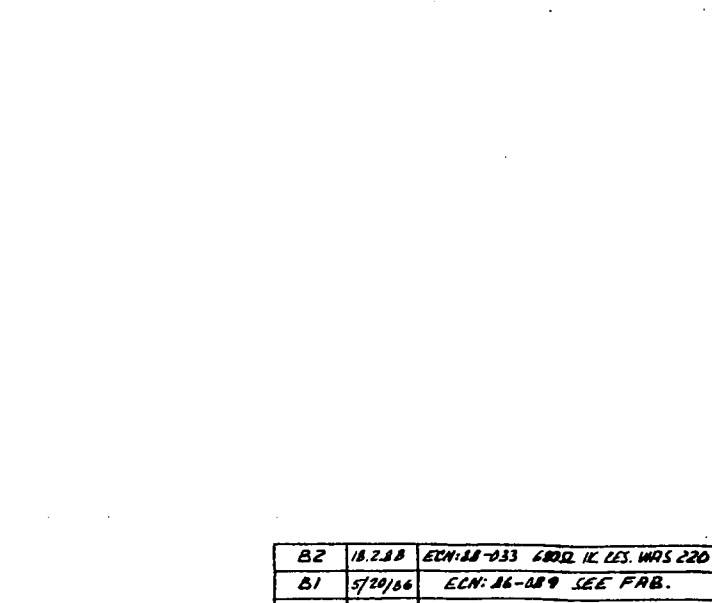
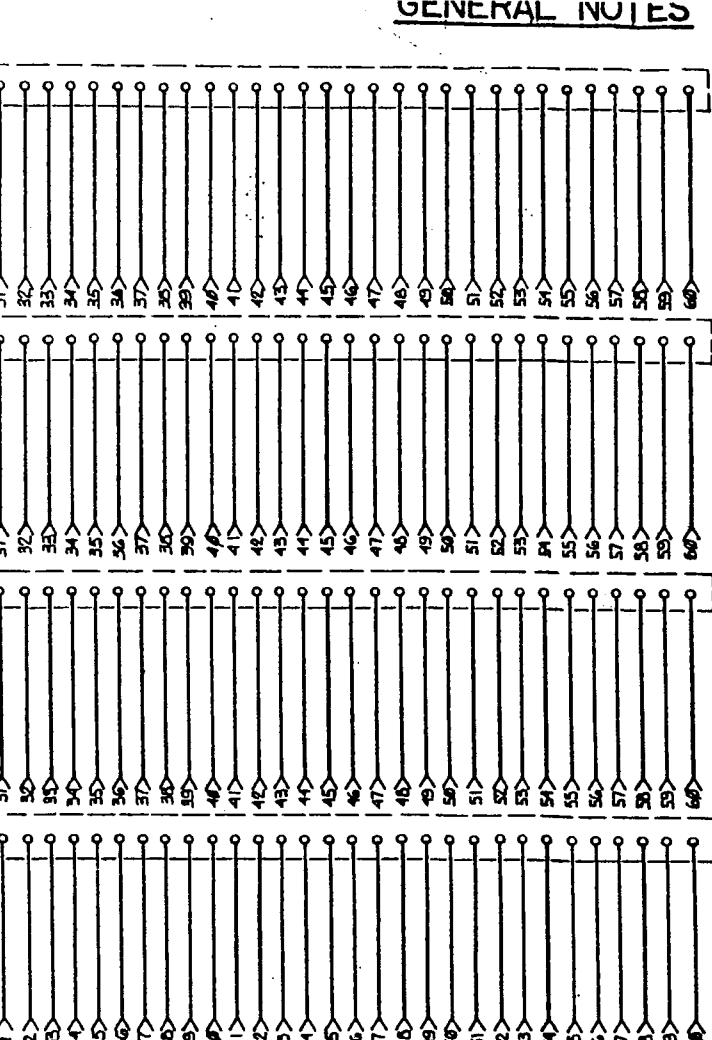
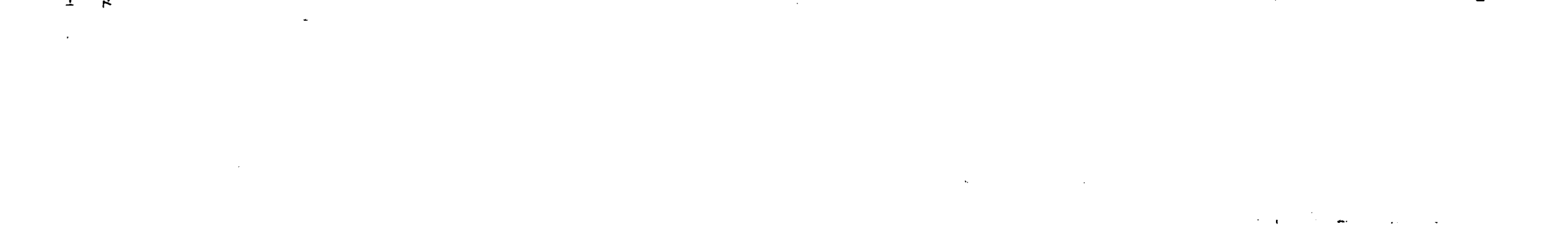
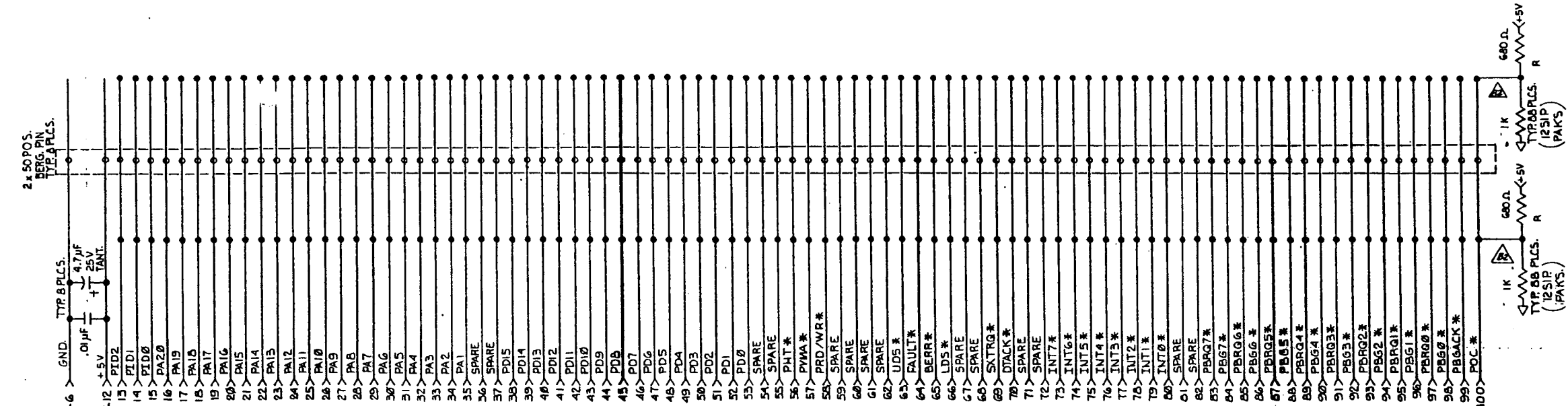
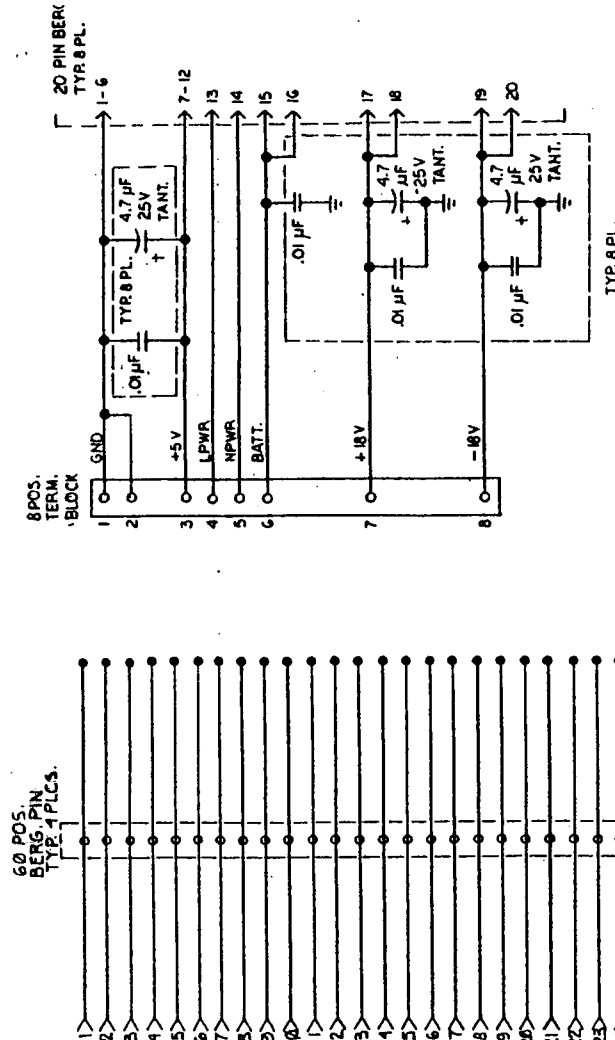


## GENERAL NOTES





ALT. NO.	DATE	DESCRIPTION
		ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.
ASSEMBLY		
PCB 501-MOTHERBOARD AS		
SCALE 2:1	CHECK BY	
DRAWN BY H.E.	DATE 30.11.79	APPROVED BY 25
PART NO.	DRAWING NO.	
318-057	1 OF 1	



ALT. NO.	DATE	DESCRIPTION
B2	10.2.88	ECN: 10-033 600. IL LES. WAS 220 330
B1	5/20/86	ECN: 16-089 SEE FAB.
B	9/17/84	REVISED TAPE MASTER
A	4/4/84	REVISED

ANILAM ELECTRONICS, INC.  
MIRAMAR, FLORIDA  
U.S.A.

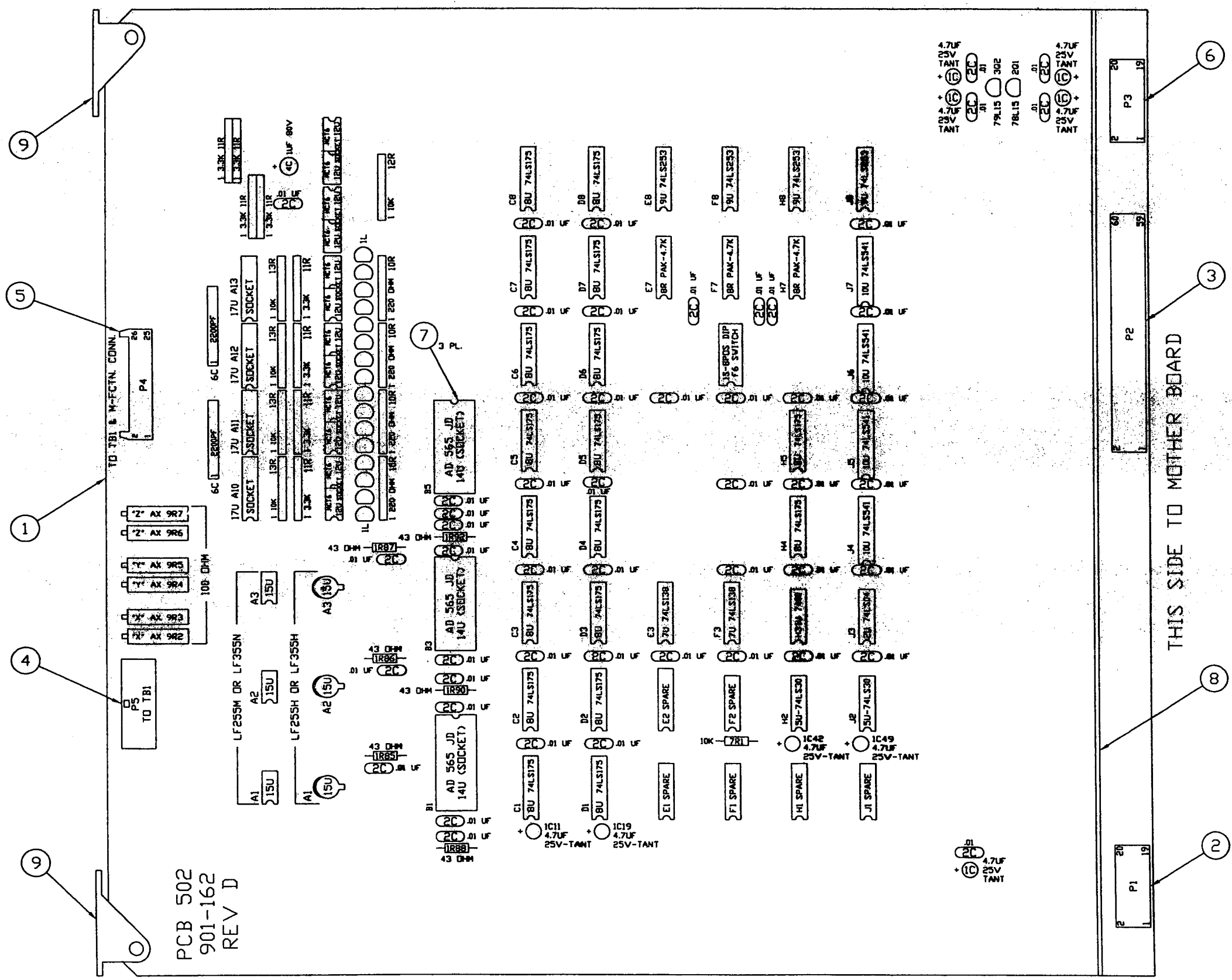
**ANILAM**

PC 501

CURS M MOTHERBOARD SCHE

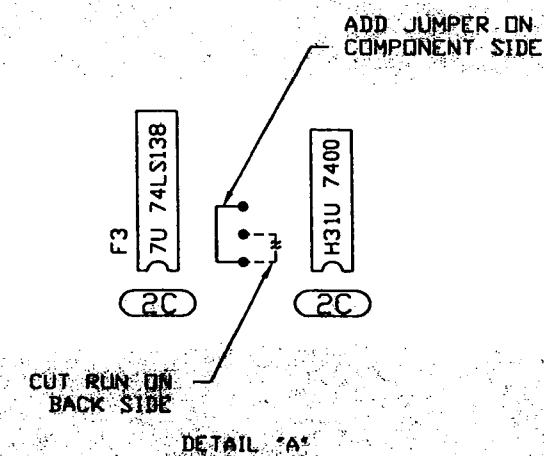
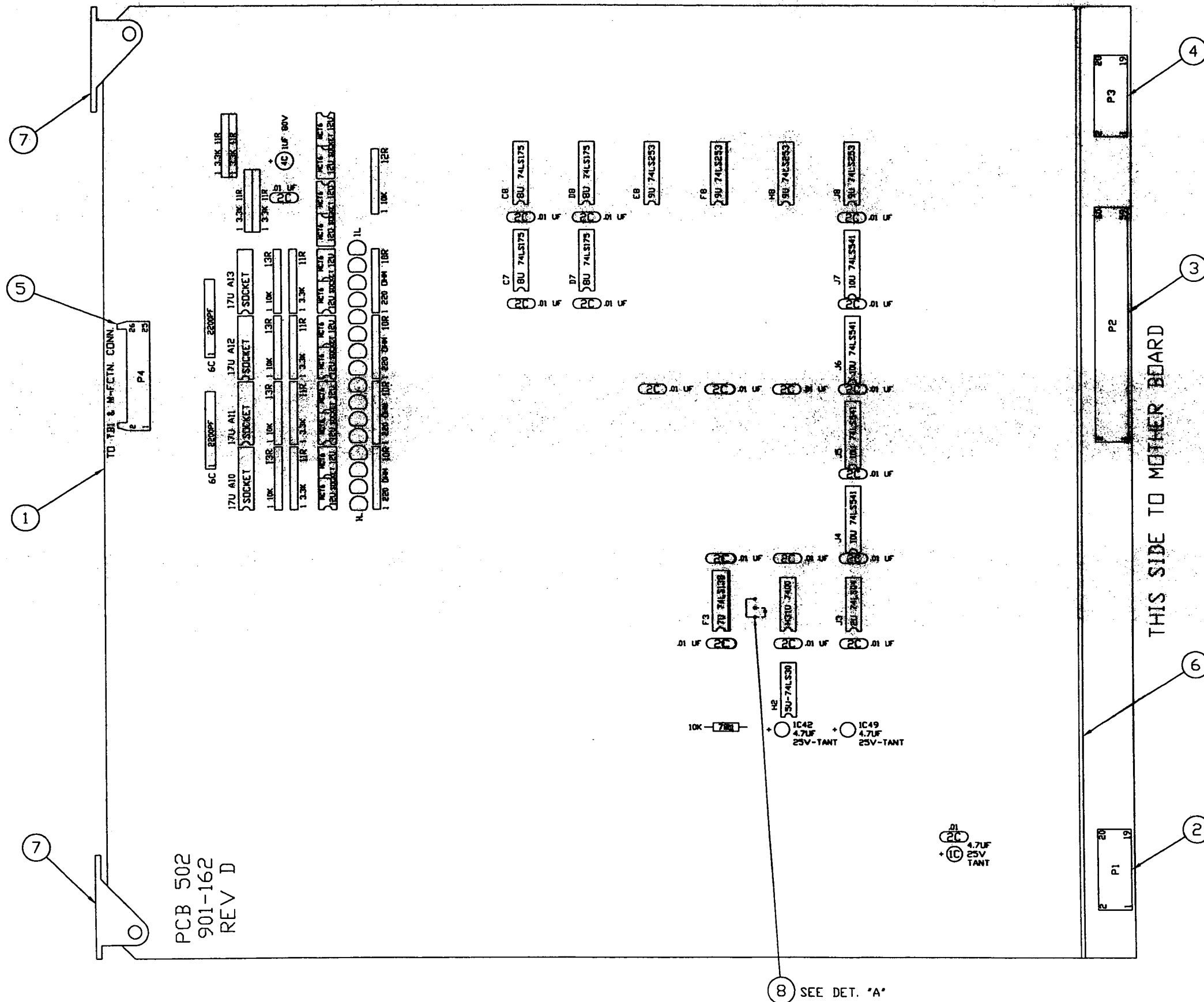
SCALE	CHECK BY	DATE	APPROVED BY
DRAWN BY DAN	DATE 8.24.83	APPROVED BY	
PART NO.	901-159	DRAWING NO.	1 OF 3

GENERAL NOTES



F	17.1.92	DEL. 16U-74123, 1C100-4.7M, 1D1-1M4148 & 2R101-33K.	HK
E	1.19.90	ECN-89-167 CHANGED OPTD. SEC. TO THAT OF PC482	ERD
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
DESCRIPTION  ASSEMBLY, PCB502 D/A & OPTD 3X, CR "M"			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	ERD	DATE 1.18.90	APP'D BY
DRAWING NO.	31800053	SHT 1 of 1	REV. F

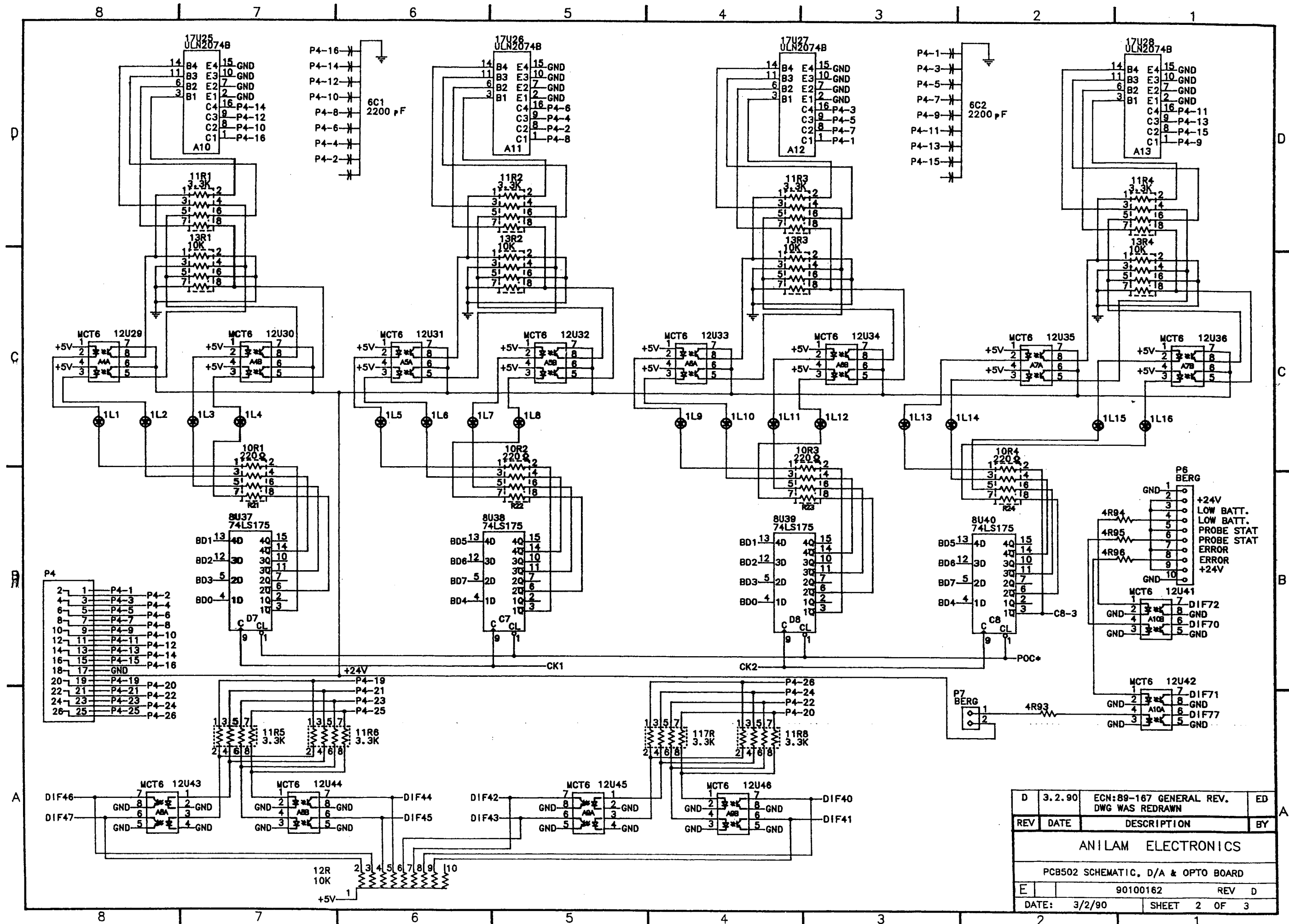
## GENERAL NOTES



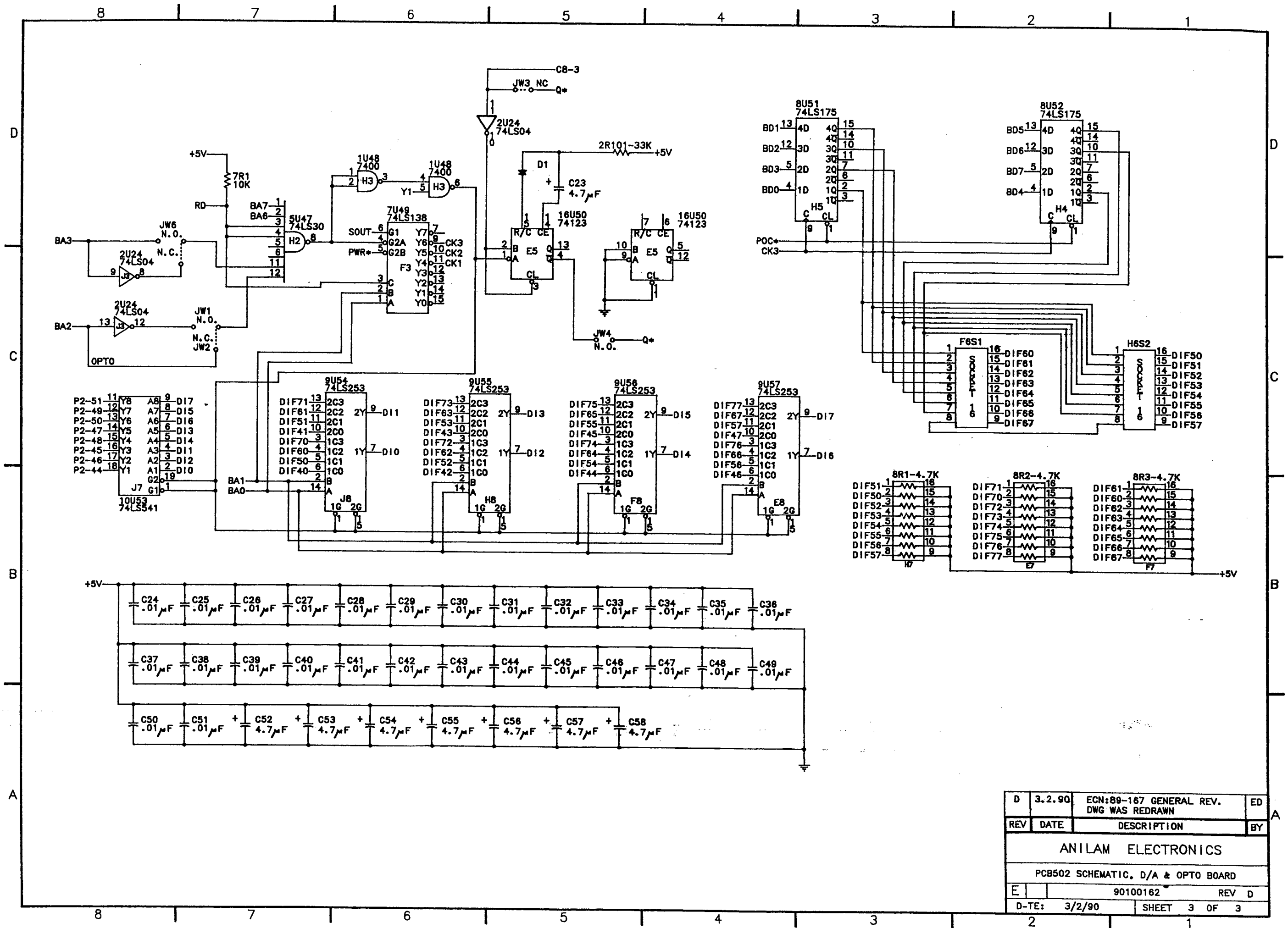
E	119.90	ECN-89-167 CHANGED OPTO. SEC. TO THAT OF PC482	ERI
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.		<b>ANILAM</b>	
DESCRIPTION			
ASSEMBLY, PC502 I/O			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	ERD	DATE 118.90	APP'D BY
DRAWING NO.		31800060	REV.
		SHT 1 OF 1	







D	3.2.90	ECN:89-167 GENERAL REV. DWG WAS REDRAWN		ED
REV	DATE	DESCRIPTION		BY
ANILAM ELECTRONICS				
PCB502 SCHEMATIC, D/A & OPTO BOARD				
E		90100162	REV	D
DATE:		3/2/90	SHEET	2 OF 3

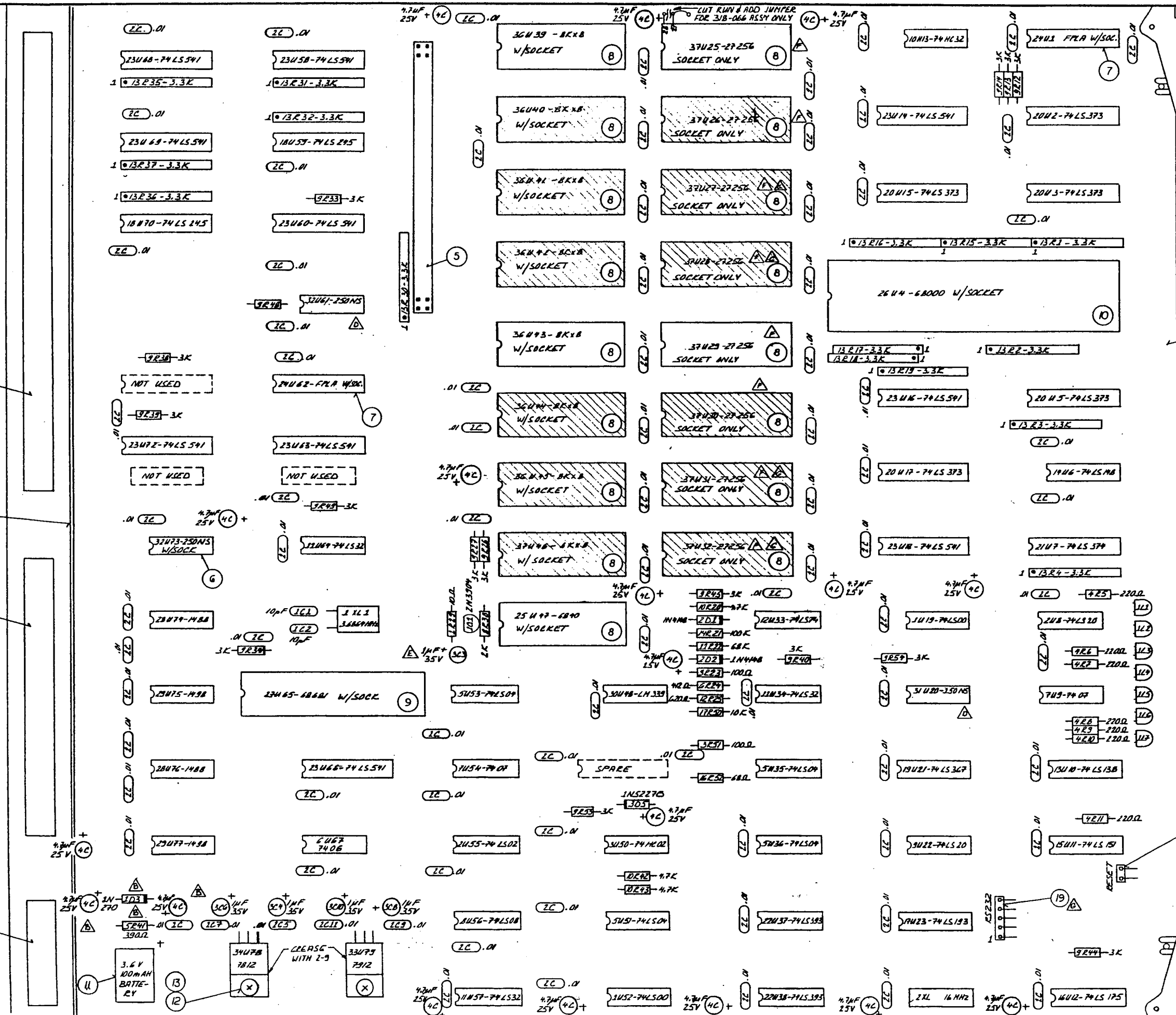


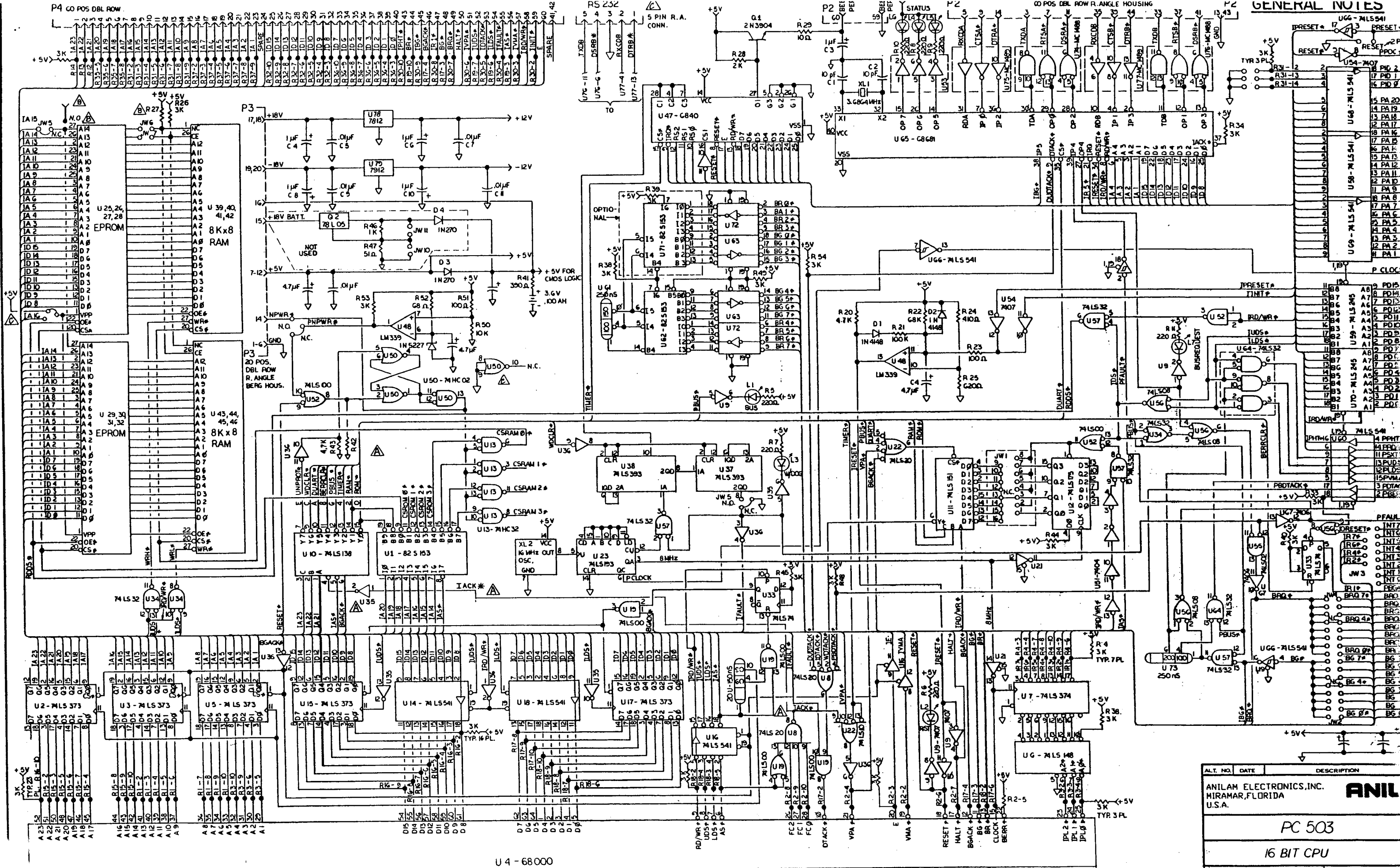
D	3.2.90	ECN:89-167 GENERAL REV. DWG WAS REDRAWN	ED
REV	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS			
PCB502 SCHEMATIC, D/A & OPTO BOARD			
E		90100162	REV D
D-TE:	3/2/90	SHEET 3	OF 3

PART No.	DESCRIPTION	DELETE	REV.:
318-051	PCB 503 16 BIT LPM ASSEMBLY	IT. MARKED	E
318-066	PCB 503 16 BIT LPM ASSY CR 'G'	NONE	G

G	22.5.87	ECN:87-072 -ADDED IT.12 & 18 FOR BOTH BOARDS & FOR 318-066 ADDED IC 374-2725G	HK / <i>1/1</i>
F	24.2.87	ECN:87-073 -DEL IC 2764	HK
E	5/2/86	ECN:86-078 IMF CAP "3C3" REVERSED	WMO / <i>2/2</i>
D	4/1/86	ECN: 86-045 REMOVED W/SOCKET FROM 32U61 & 31U20	WMO / <i>1/1</i>
C	10/25/85	ECN 85-115 ITEM 15 WAS IN	KMJ / <i>OK</i>
	3.3.85	NPT: CHANGE DWG NO. 318-057 TO D 000 150 & ADDED 318-066 ASSEMBLY.	HK / <i>1/2</i>
B	22.6.85	ECN 85-025 -DELETE 2847, 2846, 104 71615	KMJ / <i>1/1</i>
A	12.9.85	ECN:85-013-ADDR N15	KMJ / <i>1/1</i>

ASSEMBLY			
PCB 503 16 BIT CPU ASSEMBLY			
SCALE 2:1	CHECK BY	DATE	
DRAWN BY HK	DATE 3.11.84	APPROVED BY CS	DATE 2.12.84
PART NO. D000 150	DRAWING NO.	1 OF 1	ALT. NO. 6





U 4 - 68000

D 8/19/81 ECN: 87-112 FABRICATION DWG AND TAPE MASTER, REVISED. NC C

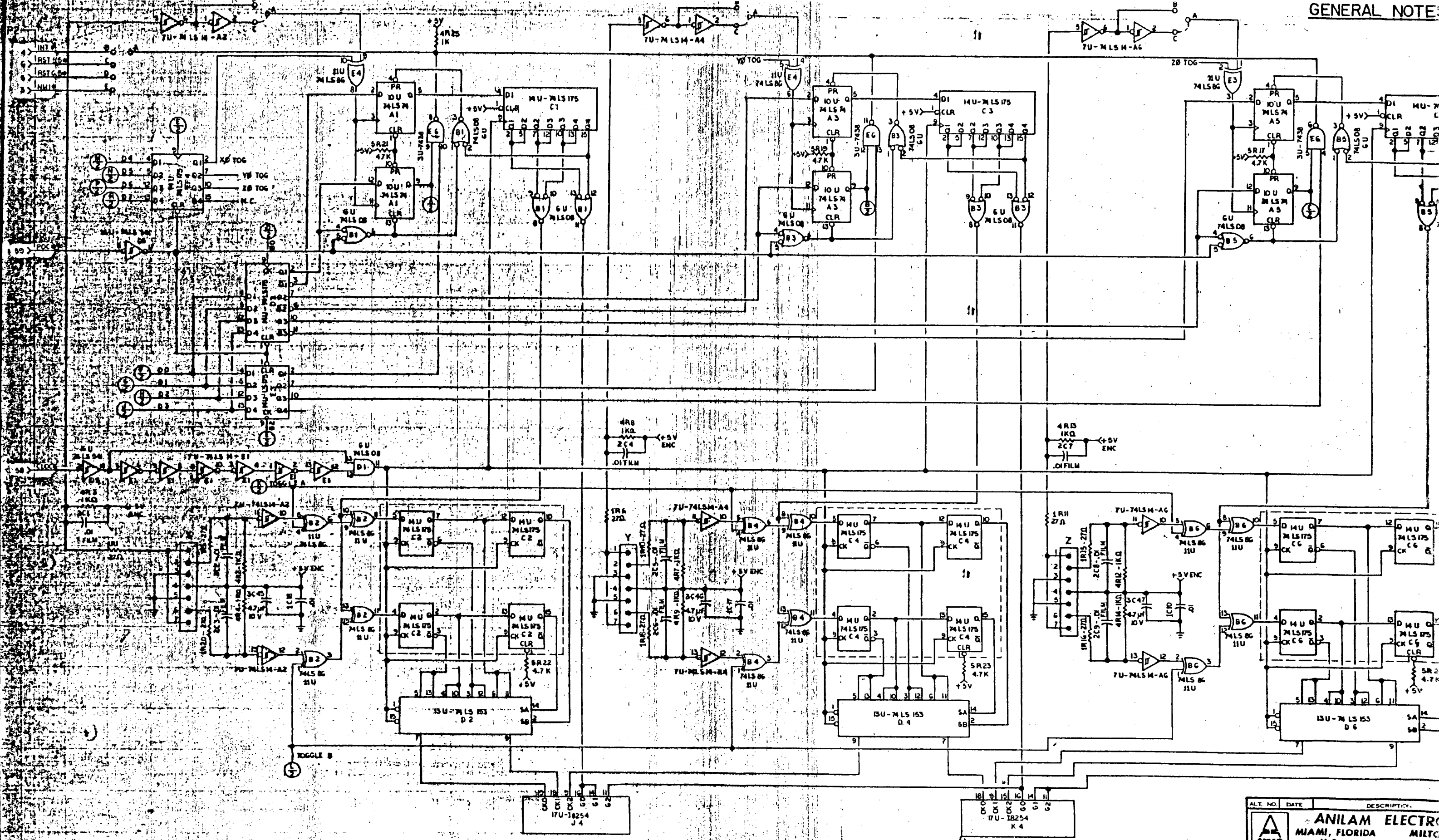
ECN: 16-187-ADDED RS 232 DATA & RESET CONN. GROUND PINS 18 & 19 ON U50. ADDED JUMPER TO I/O 16 - EPROM 2725G.

B 11/18/85 ECN: 85-67 REV EPROM U25-28 FROM 2725G TO 2725G. A 4.8.85 ECN: 85-059 REV SUBCIRCUIT FROM 85-059 TO 85-059.

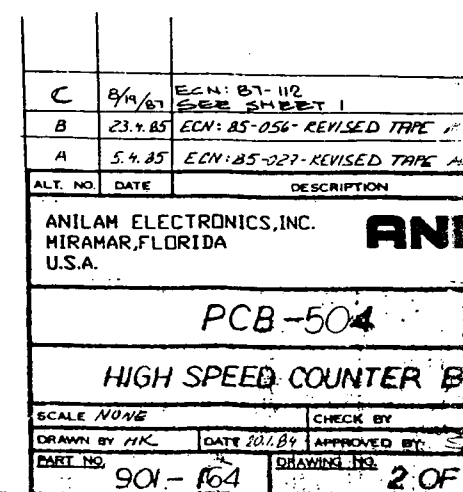
ALT. NO.	DATE	DESCRIPTION
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.		
PC 503		
16 BIT CPU		
SCALE NONE	CHECK BY	
DRAWN BY: HK	DATE: 7.5.84	APPROVED BY: CS
PART NO.	DRAWING NO.	
901-163	1 OF 1	



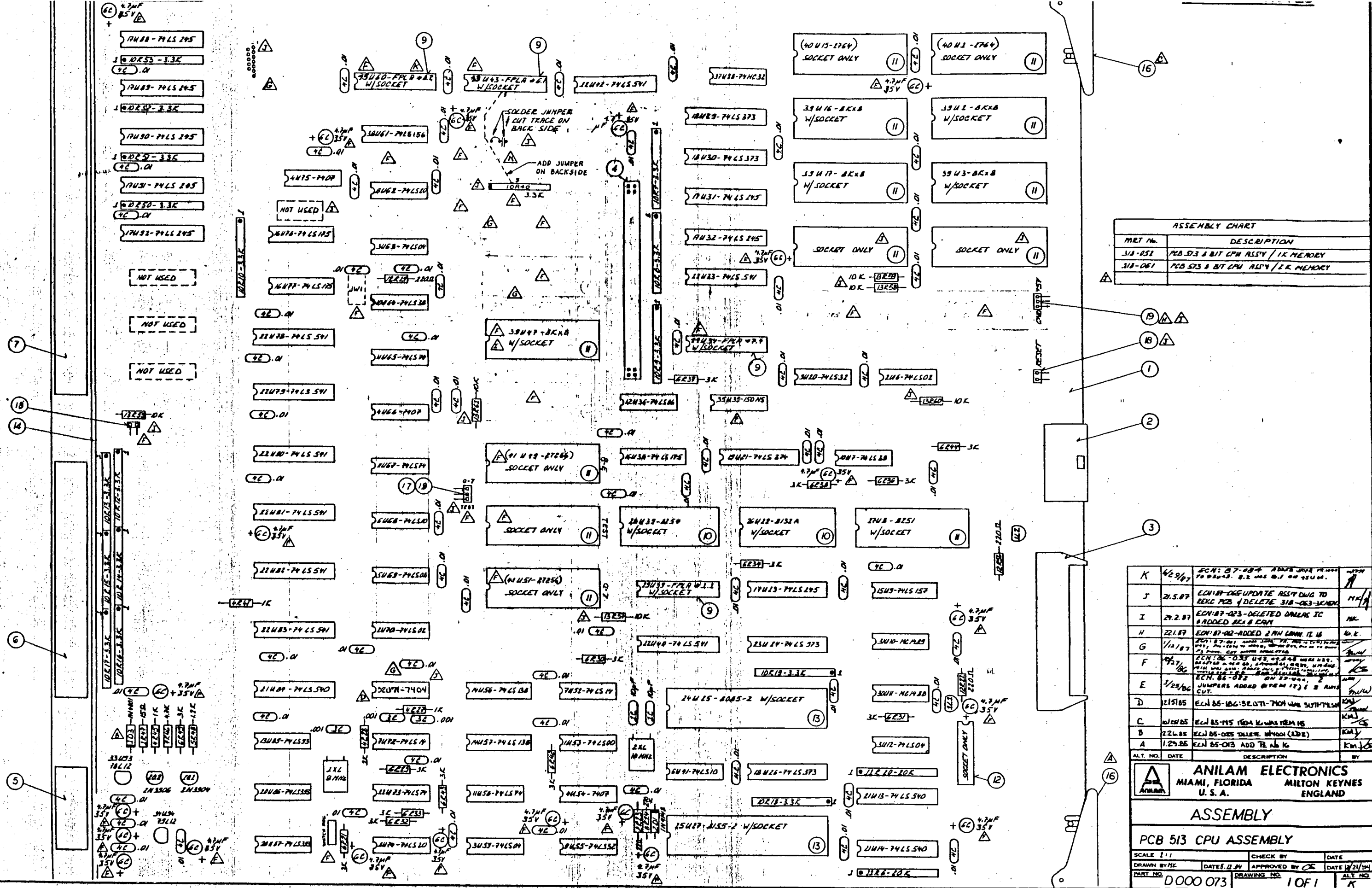




ALT. NO.	DATE	DESCRIPTION
ANILAM ELECTRO MIAMI, FLORIDA U.S.A.		
PCB-504		
HIGH SPEED COUNTER BO		
SCALE	ADWVE	CHECK BY
DRAWN BY	DATE	APPROVED BY
PART NO.	Q01-164	DRAWING NO.







ASSEMBLY CHART	
MET No.	DESCRIPTION
318-052	PCB S73 8 BIT CPU ASSY / 1K MEMORY
318-061	PCB S73 8 BIT CPU ASSY / 1K MEMORY

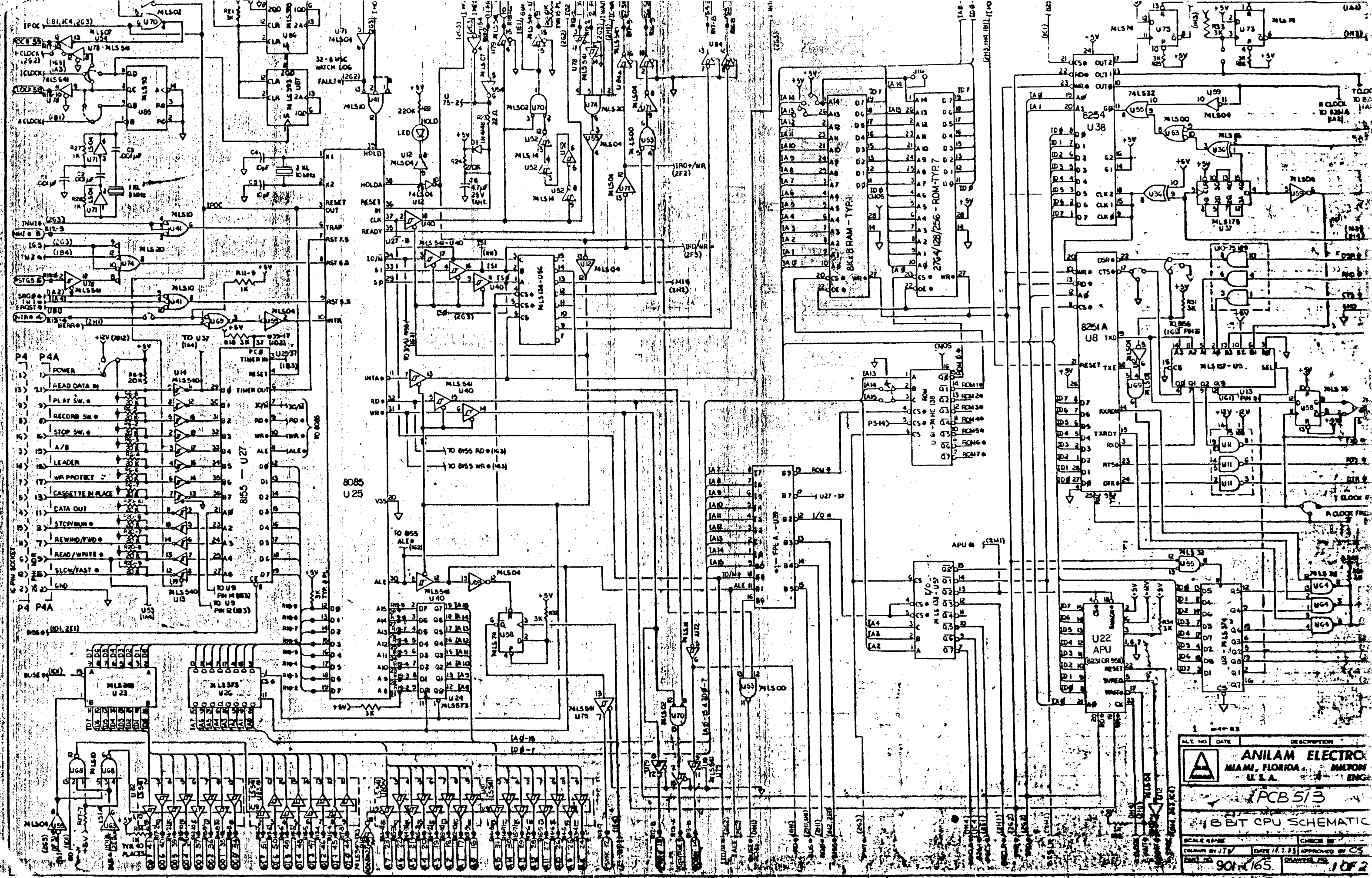
[illegible]

**ANILAM ELECTRONICS**  
**MIAMI, FLORIDA**      **MILTON KEYNES**  
**U. S. A.**      **ENGLAND**

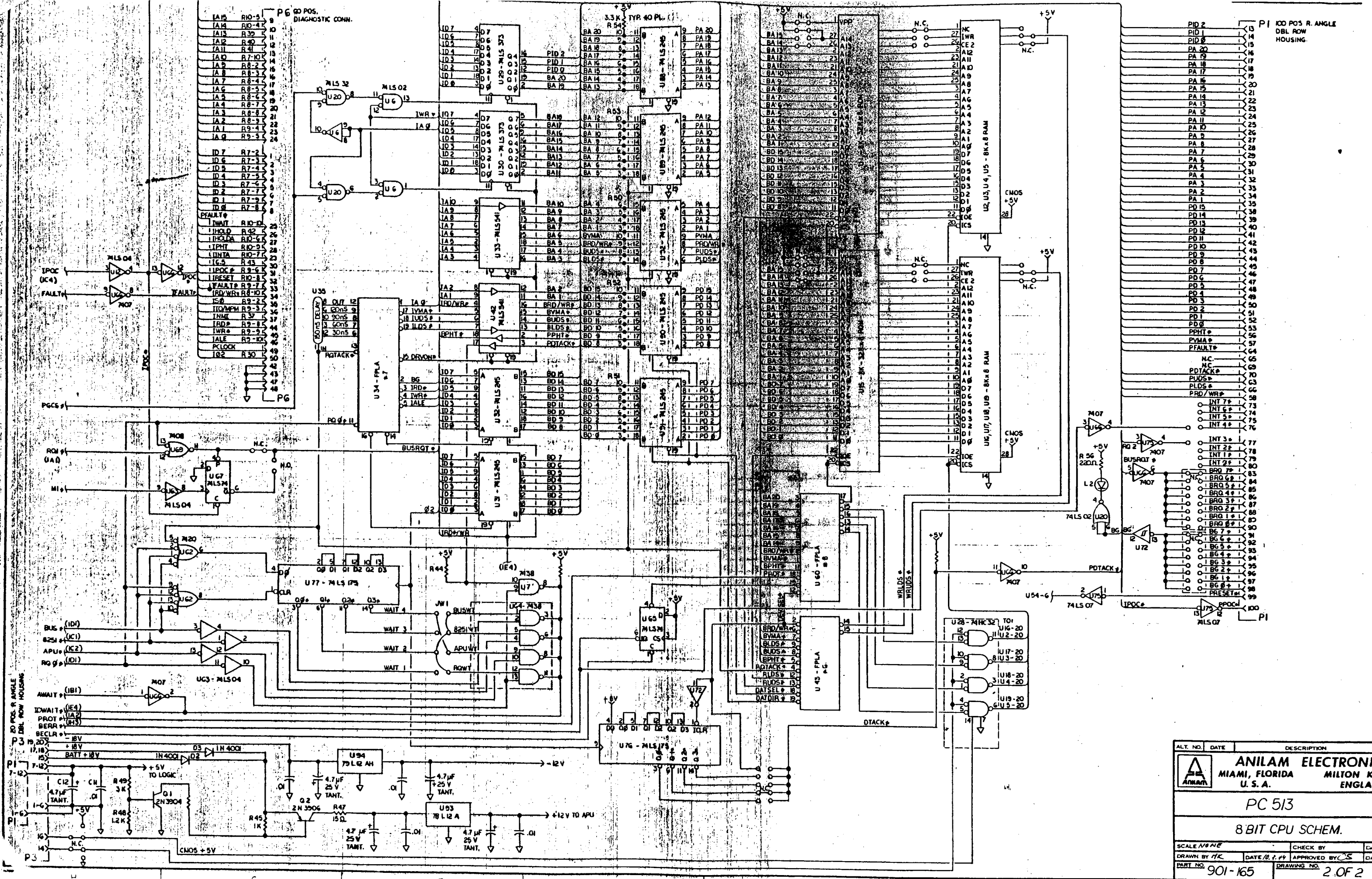
## ASSEMBLY

## PCB 513 CPU ASSEMBLY

SCALE 2:1		CHECK BY	DATE
DRAWN BY ME	DATE 5.11.54	APPROVED BY OS	DATE 12/21/54
PART NO. D 000 073	DRAWING NO. 1 OF 1		ALT. NO. K

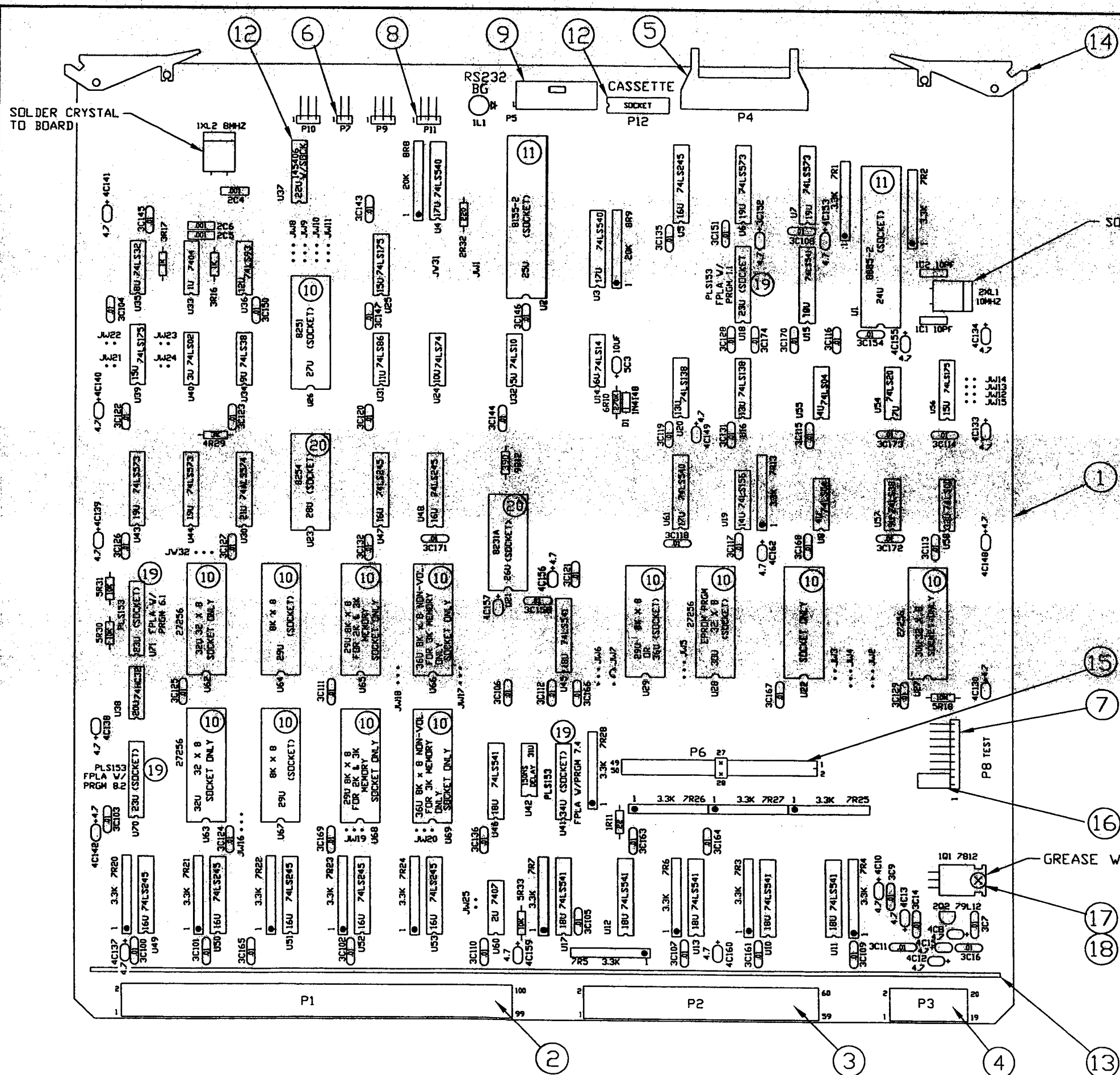


ALT. NO.	DATE	DESCRIPTION
		<b>ANILAM ELECTRO</b> MIAMI, FLORIDA U.S.A.
PCB 513		
8 BIT CPU SCHEMATIC		
SCALE 1/8"	DATE 11/7/83	APPROVED BY CS
DRAWN BY JTV	DATE 11/7/83	DESIGNED BY JTV
901-165		1 OF 2





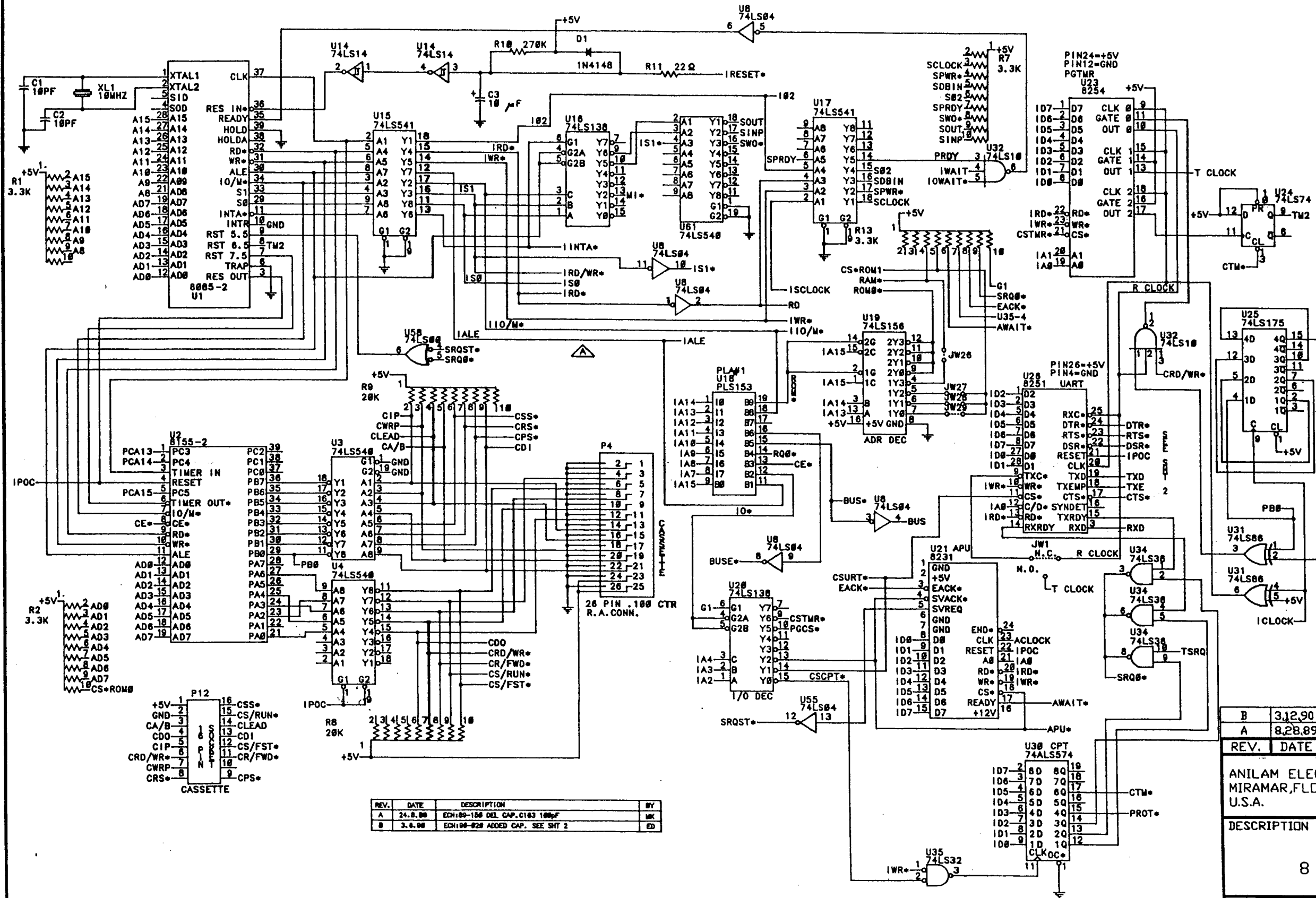
# GENERAL NOTES



PART NO.	DESCRIPTION	ADD P/N
31800892	CR M PCB523 8 BIT CPU 2 AXIS MILL SOFTWARE	EPRM PRGM 2 AX MILL SFTWR #31800976
31800990	CR M PCB523 8 BIT CPU 3 AXIS MILL SOFTWARE	EPRM PRGM 3 AX MILL SFTWR #31800993
31801020	CR M PCB523 8 BIT CPU LATHE SOFTWARE	EPRM PRGM LATHE SFTWR #31801023

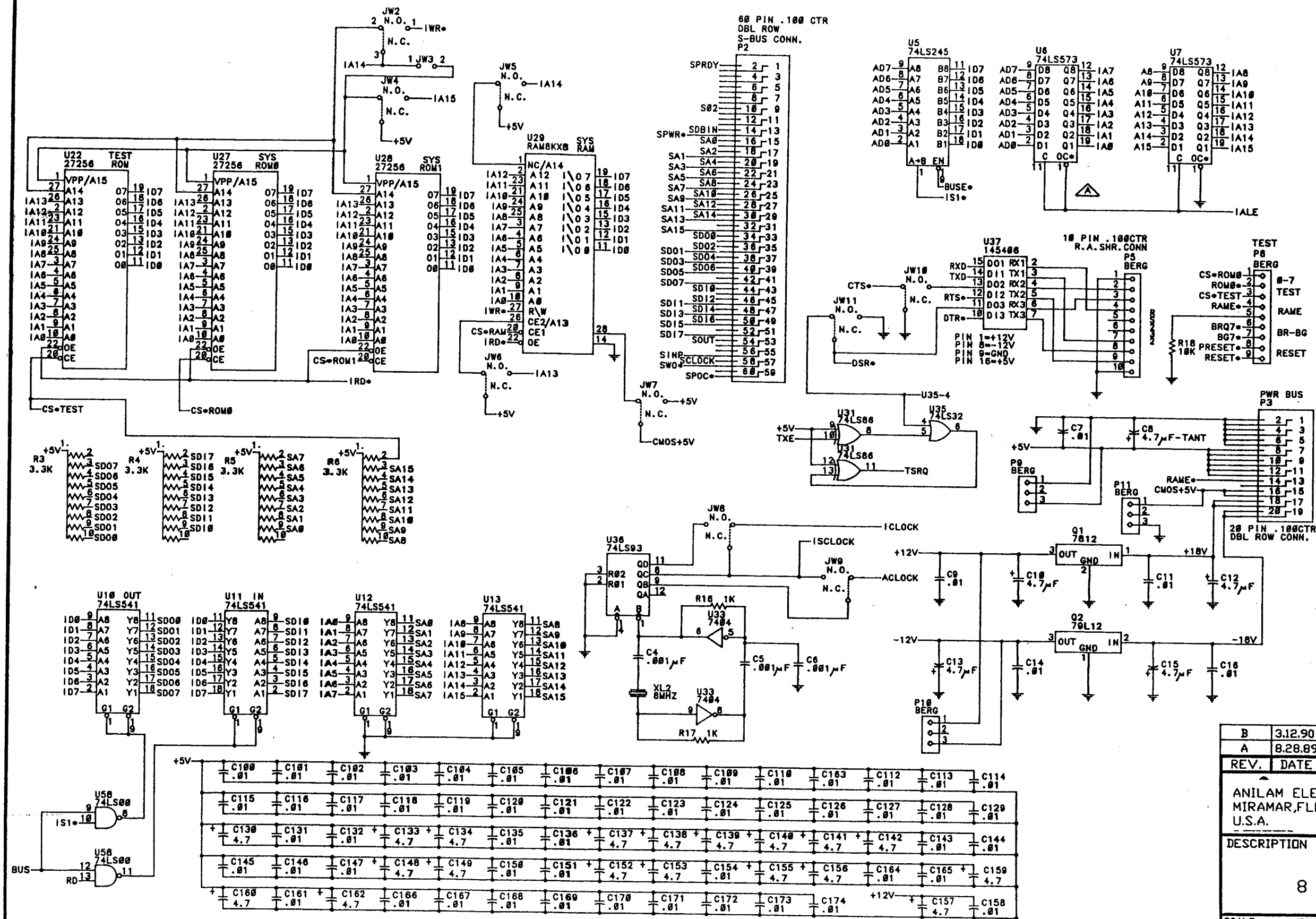
	PART NO.	DESCRIPTION	ADD
2K MEMORY	31800947	2K MEMORY KIT, PC 523	2x 29U 8KX8
3K MEMORY	31800948	3K MEMORY KIT, PC 523	2x 29U 8KX8 2x 36U 8KX8 NON-VOL.

A	3.8.90	ECN-90-020 ADDED .01 CAP DWG NO. WAS D000403	ERD
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
<div>ANILAM</div>			
DESCRIPTION			
ASSEMBLY PC523 8 BIT CPU, CR. "M"			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	RM	DATE 3.1.89	APP'D BY
DRAWING NO.	31801085	SHT 1 of 1	REV. A

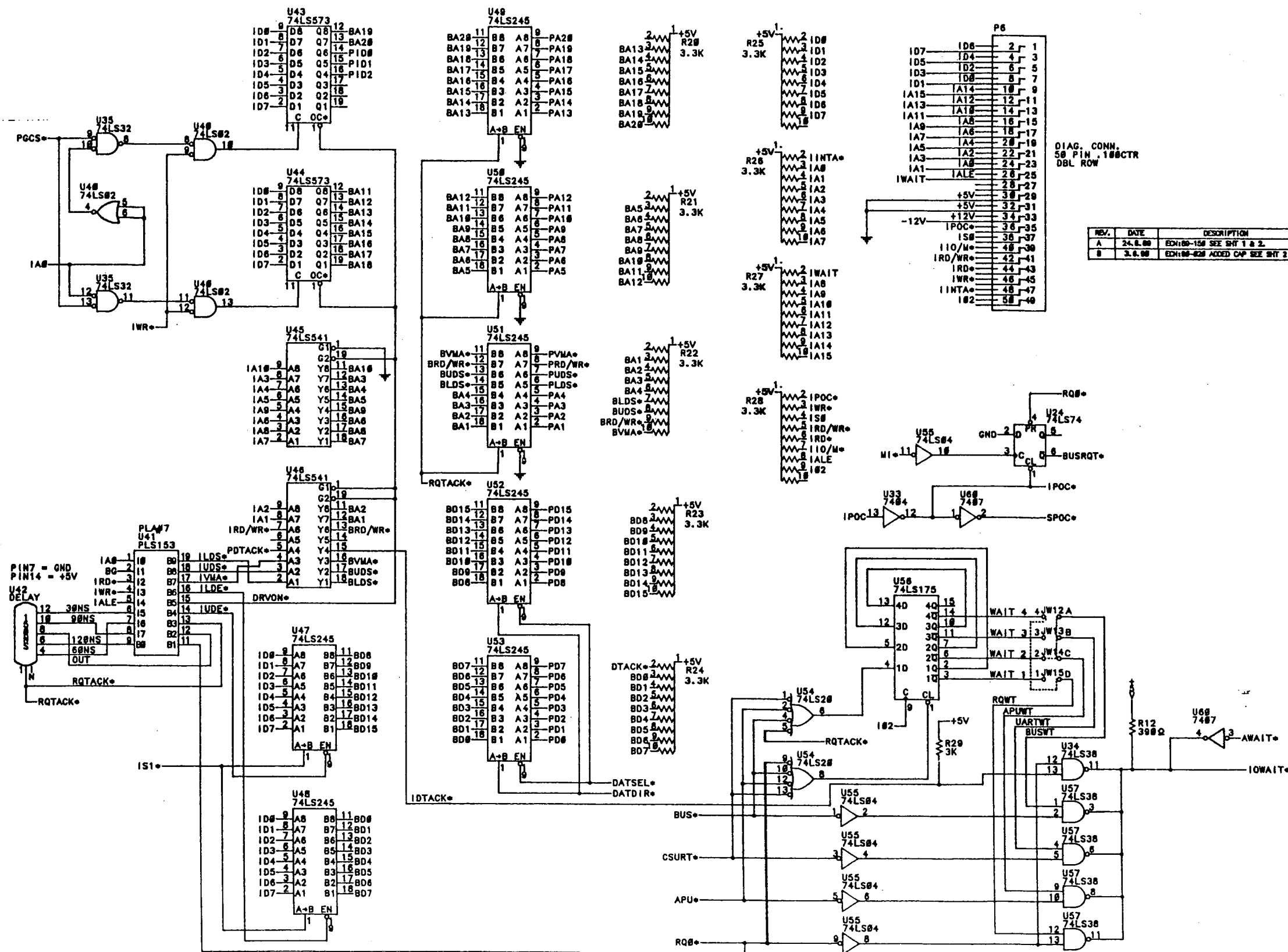


REV.	DATE	DESCRIPTION	BY
A	24.8.88	ECN109-150 DEL CAP. C163 100pF	MK
B	3.8.88	ECN109-020 ADDED CAP. SEE SHT 2	ED

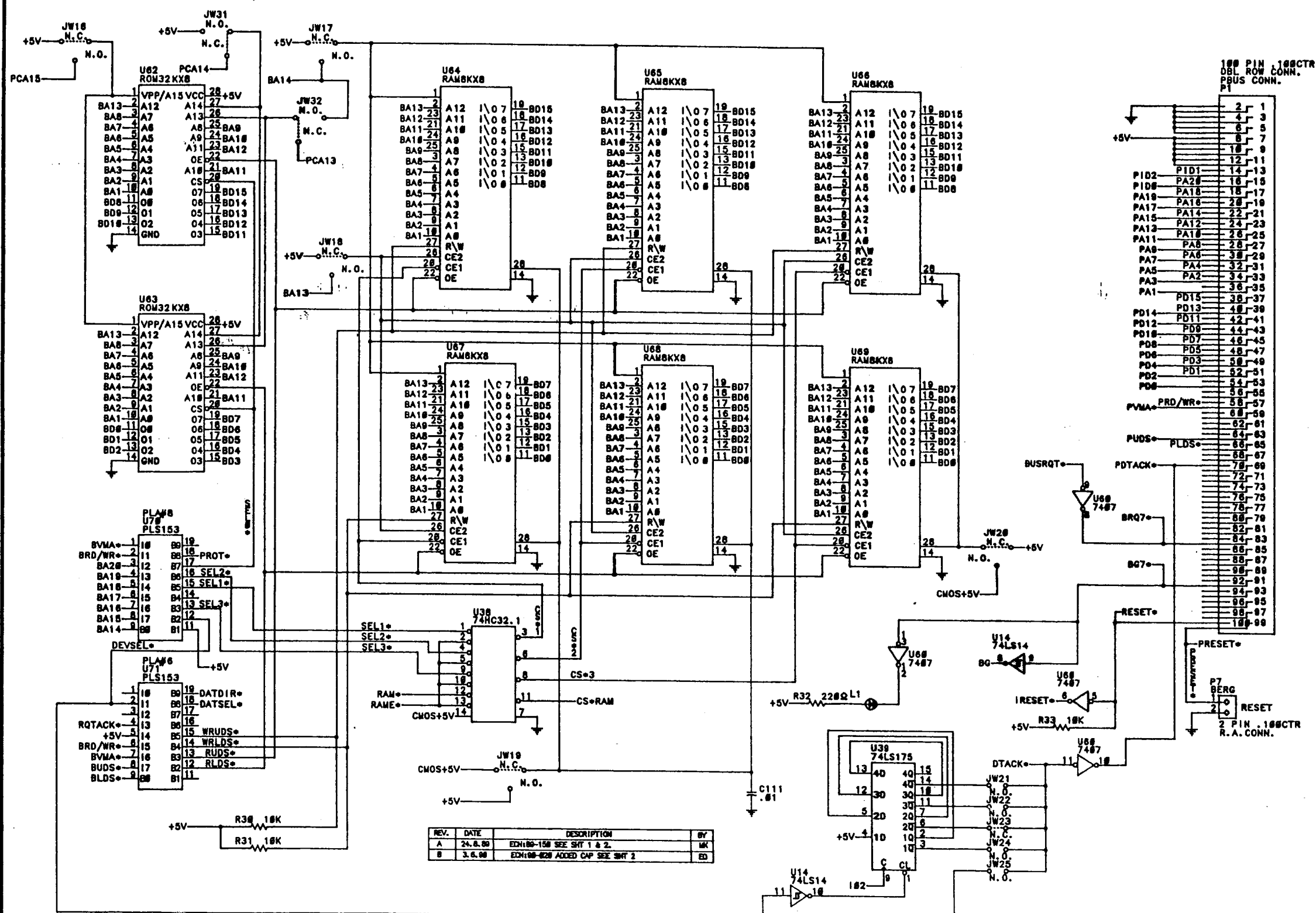
B	3,12,90	ECN90-020 SEE SHEET 2	ERD
A	8,28,89	ECN89-150 DELETED C163-100pF	MK
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
DESCRIPTION			
PCB523 8 BIT CPU, SCHEMATICS			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	MK	DATE 7.4.89	APP'D BY
DRAWING NO.	90100230	SHT 1 of 4	REV. B



B	3.12.90	ECN90-020 ADDED 11 CAP .01mF	ERD
A	8.28.89	ECN89-150 DELETED C163-100pF	MK
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
DESCRIPTION			
PCB523 8 BIT CPU, SCHEMATICS			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	MK	DATE 7.4.89	APP'D BY
DRAWING NO.	90100230	SHT 2 OF 4	REV. B



B	3.12.90	ECN90-020 SEE SHEET 2	ERD
A	8.28.89	ECN89-150 DELETED C163-100pF	MK
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
DESCRIPTION			
PCB523 8 BIT CPU, SCHEMATICS			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	MK	DATE	7.4.89
DRAWING NO.	90100230	SHT 3 OF 4	REV. B

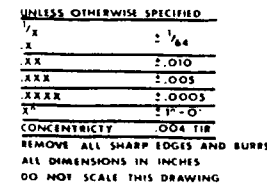



REV.	DATE	DESCRIPTION	BY
A	24.8.80	EDN180-150 SEE SHT 1 & 2	MR
B	3.6.88	EDN180-020 ADDED CAP SEE SHT 2	ED

B	3.12.90	ECN90-020 SEE SHEET 2	ERD
A	8.28.89	ECN89-150 DELETED C163-100pF	MK
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
DESCRIPTION			
PCB523 8 BIT CPU, SCHEMATICS			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	MK	DATE 7.4.89	APP'D BY
DRAWING NO.	90100230	SHT 4 OF 4	REV. B







REV.	DATE	DESCRIPTION	
		<b>ANILAM ELECTRONICS</b> MIAMI, FLORIDA      MILTON KEYN U. S. A.                      ENGLAND	
DESCRIPTION			
PC 519 S1/O INTFC SCHEM			
SCALE <i>NONE</i>		CHECK BY	DATE
DRAWN BY <i>HK</i>		DATE <i>2.5.86</i>	APPROVED BY
DRAWING NO <i>901-188</i>		SHT <i>1</i> OF <i>1</i>	REV