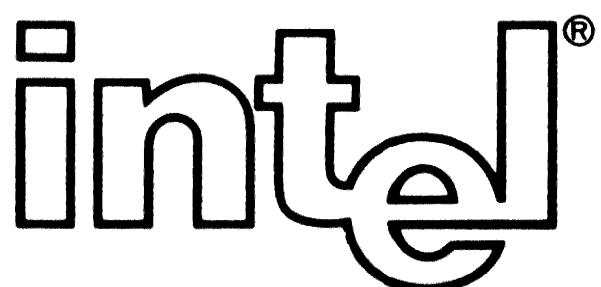


**INTELLEC® SERIES III
MICROCOMPUTER
DEVELOPMENT SYSTEM**

Manual Order Number: 121642-001 Rev. A

**schematic
drawings**





CONTENTS

INTELLEC® SERIES III MICROCOMPUTER DEVELOPMENT SYSTEM

Manual Order Number: 121642-001 Rev. A

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Intel Corporation
3065 Bowers Avenue
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Intel	Micromap	µScope
Intlevision		

and the combination of ICE, iCS, iSBC, iSBX, MCS, or RMX and a numerical suffix.

TITLE	NUMBER
Mainframe Outline Drawing (1 sheet)	4301762
System Interconnect Diagram (3 sheets)	2002594
Integrated Processor Card Printed Wiring Assembly (1 sheet)	1002494
Integrated Processor Card Schematic Diagram (12 sheets)	123189
I/O Controller Printed Wiring Assembly (1 sheet)	1002104
I/O Controller Schematic Diagram (12 sheets)	123467
Resident Processor Assembly (RPA-86) Printed Wiring Assembly (1 sheet)	123327
Resident Processor Assembly (RPA-86) Schematic Diagram (11 sheets) ...	123328
iSBC 300 32k Multimodule RAM Printed Wiring Assembly (1 sheet)	1001798
iSBC 300 32k Multimodule RAM Schematic Diagram (1 sheet)	2001800
iSBC 032, 048, 064 RAM Board Printed Wiring Assembly (1 sheet)	05-0632-000 to 007
iSBC 032, 048, 064 RAM Board Schematic Diagram (6 sheets)	142704
Front Control Panel Printed Wiring Assembly (1 sheet)	1001200
Front Control Panel Schematic Diagram (1 sheet)	2001202
6-Slot Backplane Printed Wiring Assembly (2 sheets)	1002078
6-Slot Backplane Schematic Diagram (4 sheets)	2002679
Keyboard Schematic/Specification (3 sheets)	4501240
Power Supply (CRT/Floppy Disk) Schematic Diagram (4 sheets)	2001254
Power Supply Schematic Diagram (3 sheets)	2838*
Expansion Chassis System Interconnect Diagram (3 sheets)	123335
Expansion Chassis Backplane Printed Wiring Assembly (1 sheet)	1002152
Expansion Chassis Backplane Schematic Diagram (3 sheets)	2002771
Expansion Chassis Power Supply Schematic Diagram (4 sheets)	2001271

*Vendor schematic

8

7

6

5

4

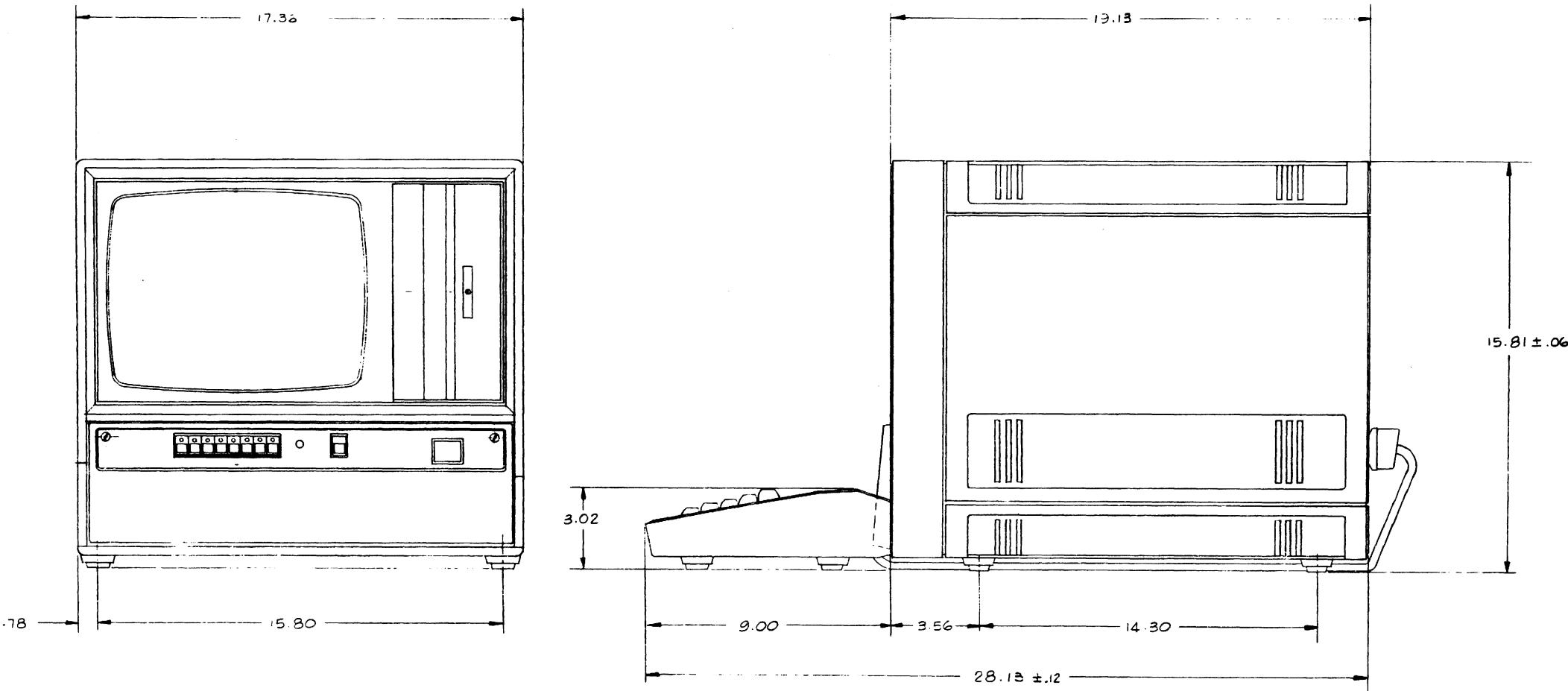
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2

1

REVISIONS

LTR	DESCRIPTION	SIGNATURE AND DATE		
		DEPT	CHK	ENGR
A	PRODUCTION RELEASE	E.W.	T.M.	J.B.
-	ECO 2-3151	10/6/77	10/6/77	10/6/77



QUANTITY PER DASH NO.			ITEM NO.	PART NUMBER	DESCRIPTION
SCALE: NONE			SIGNATURE	DATE	
TOL.	2 PLC	3 PLC	ANGLE	DRW BY E. WONG	10/6/77
= .03	—	—		CHK BY T. NGUM	10/6/77
MATERIAL: _____			TITLE: OUTLINE DRAWING MDS-220 MDS-230		
FINISH: _____			SIZE: D MCD DRAWING NO. P4301762 REV A		
NEXT ASSY: _____ USED ON: _____			CODE: J SHEET 1 OF 1		

intel

3000 BOWERS AVE.
SANTA CLARA
CALIF. 95051

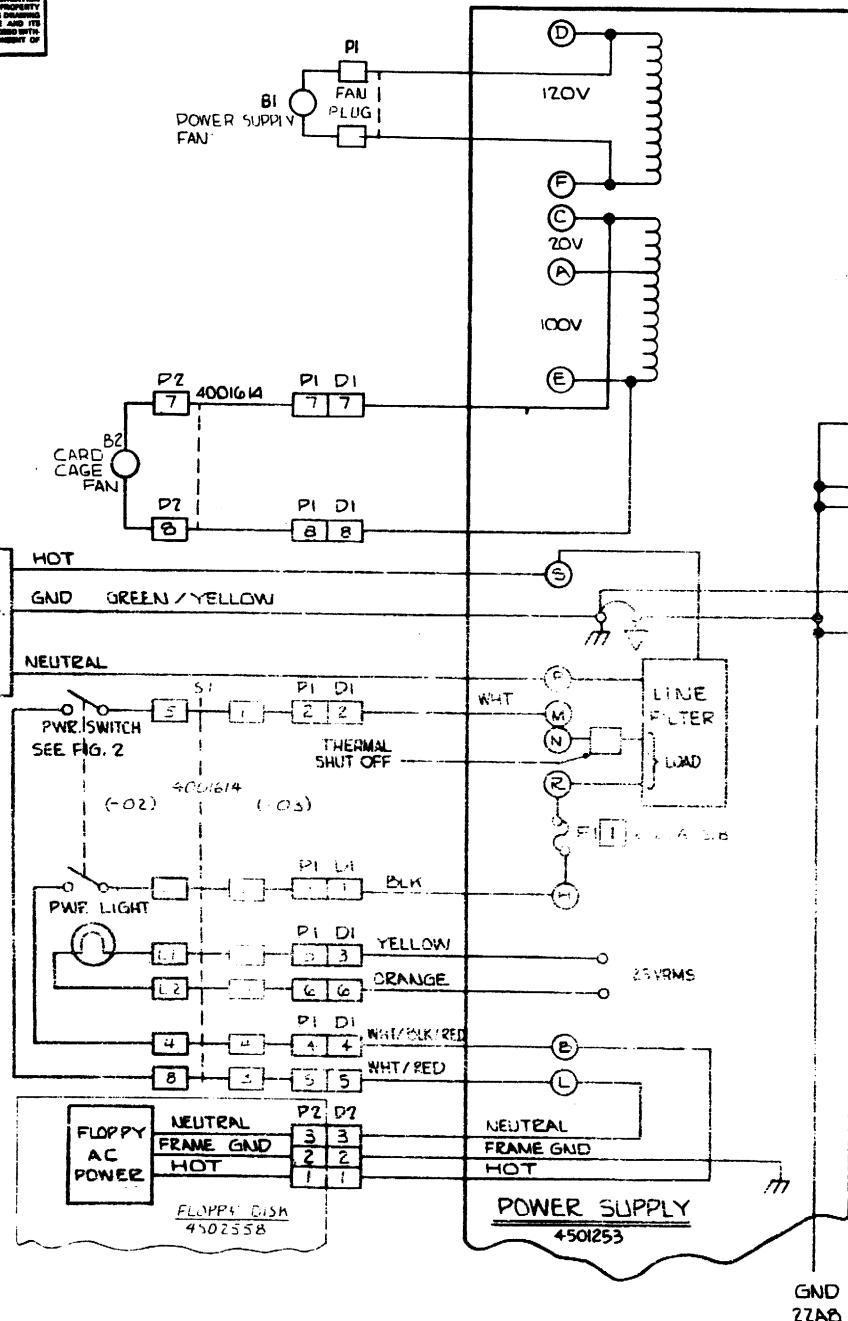
10/6/77

10/6/77

10/6/77

D

POWER INPUT
VS&F
CONN.
SEE
FIG. 1



I FUSE REQUIREMENTS.
110V - 6.25A, SLOW BLOW
230V - 3A, SLOW BLOW

NOTES: UNLESS OTHERWISE SPECIFIED

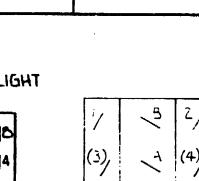
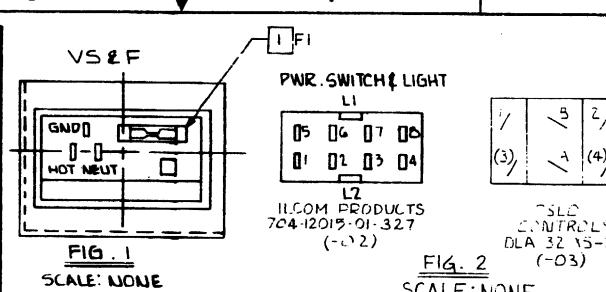
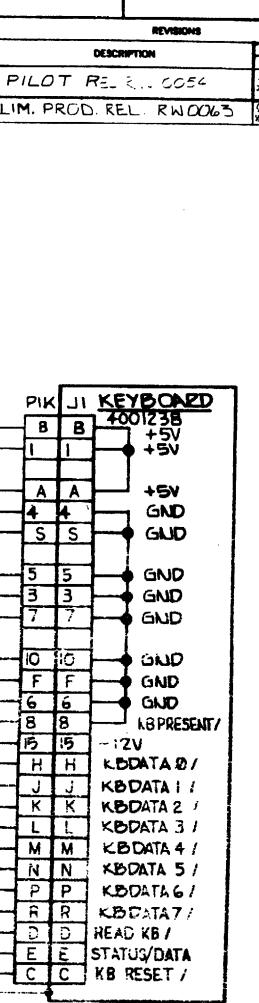
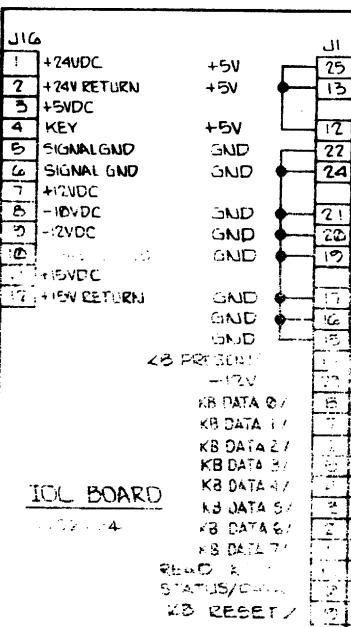


FIG. 3
SCALE: NONE
REAR VIEW

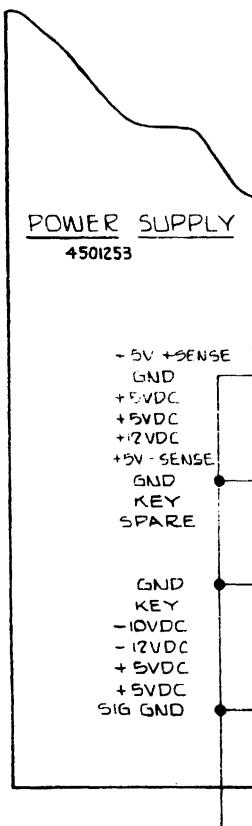


ITEM NO.	PART NUMBER	DESCRIPTION
QUANTITY PER DASH NO.		
SCALE: NONE		
TOL:	2 PLC 3 PLC ANGLE	DRW BY: KAI DATE: 2-17
	/ / /	CNC BY: V. M. H. T. F. / /
MATERIAL:		REV: 1
FINISH:		DEPT: SYSTEMS INTERCONNECT
NETT ASSY	MDS 222	DES: D DRAWING NO: L 2002594
USED ON	MDS 220/221/22	CODE: SHEET 1 OF 3

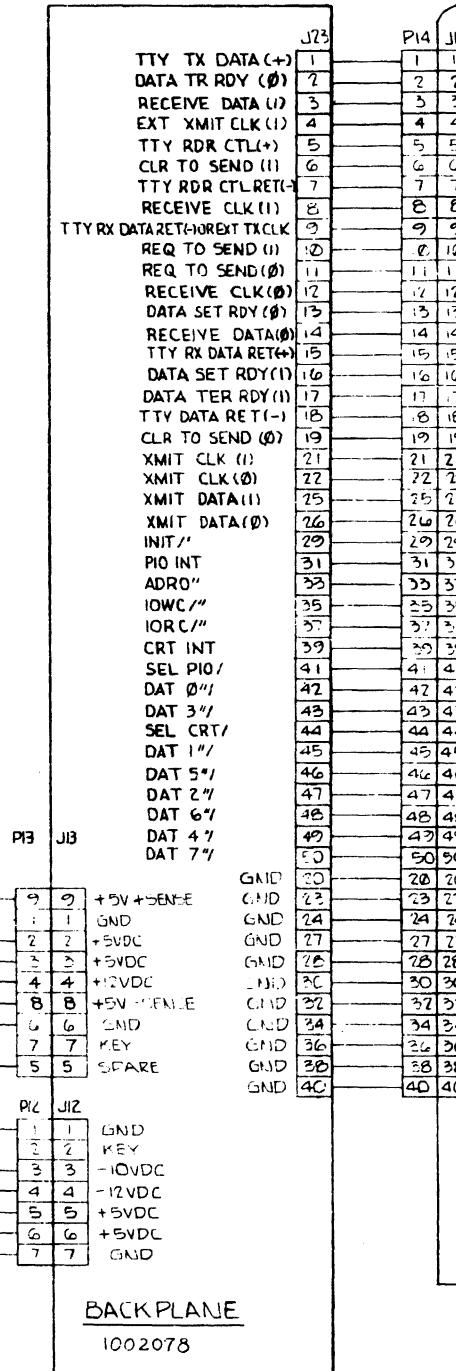
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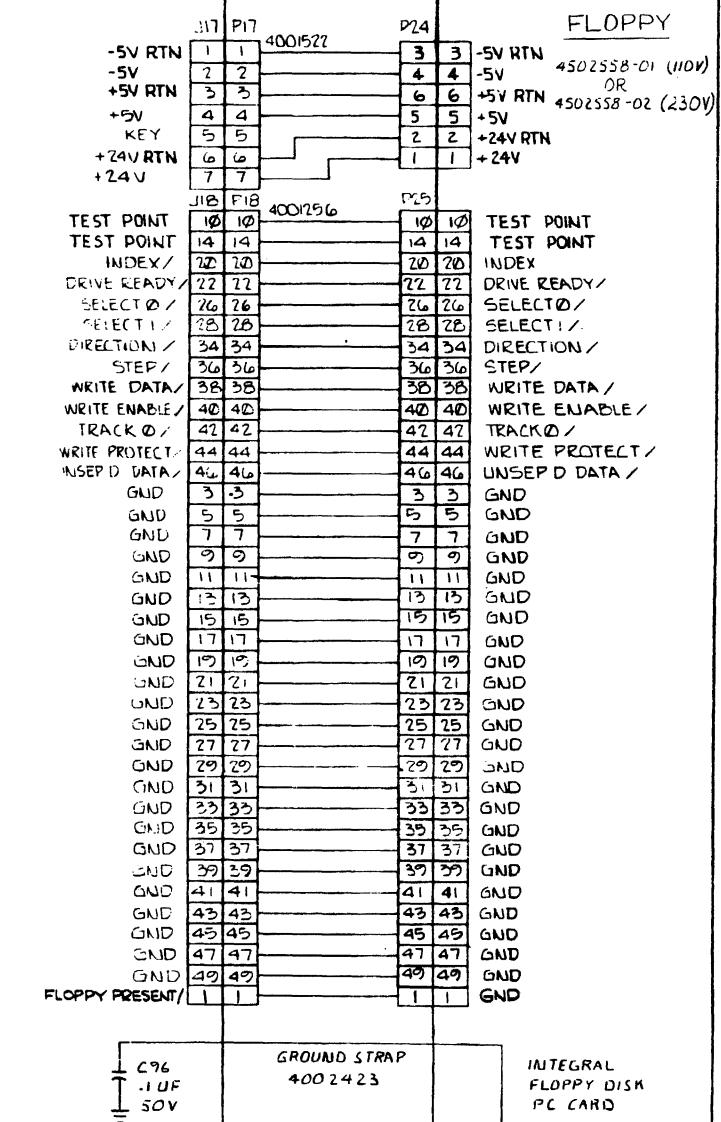


POWER SUPPLY 4501253



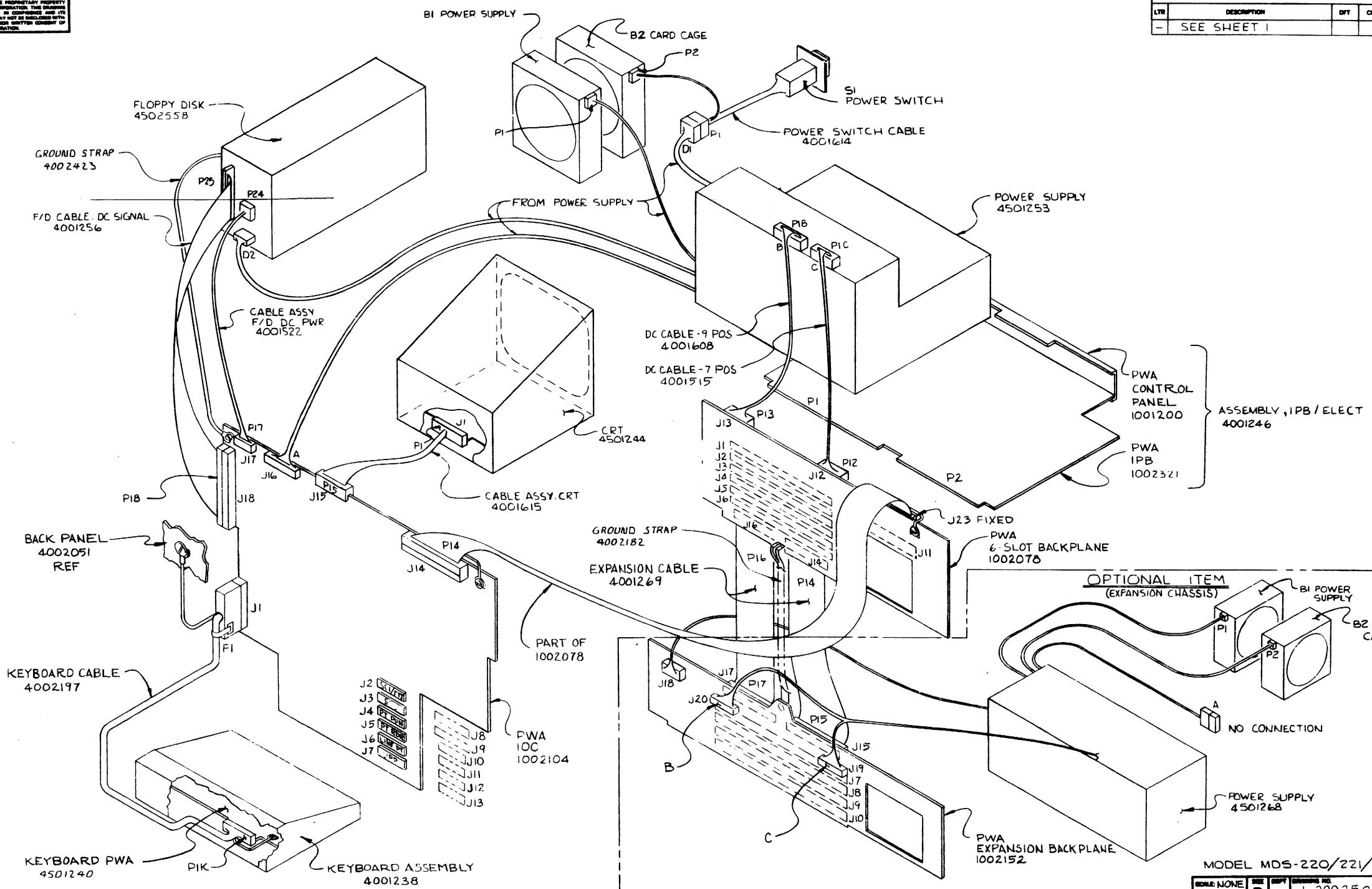
BACKPLANE 1002078

IOC BOARD 1002104



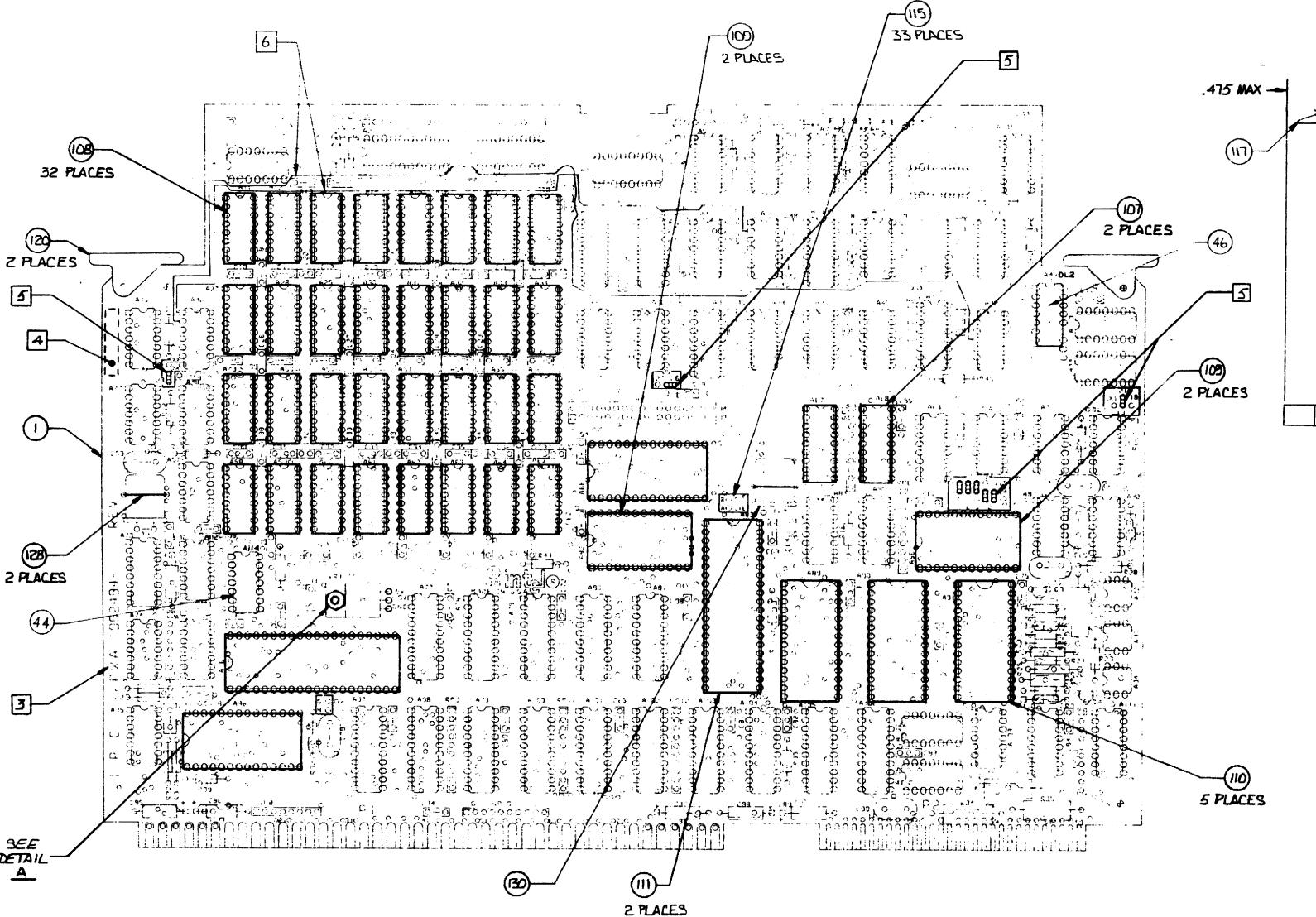
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REVISIONS				
LTR	DESCRIPTION	DFT	CHK	ENG'D
-	SEE SHEET 1			

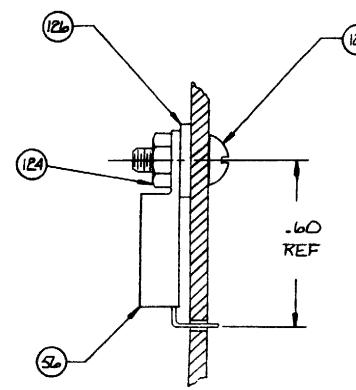


SCALE: NONE		LEFT	DRAWING NO.	REV.
SHEET 3 OF 3	D	MCSD	L 2002594	A

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		REVISIONS				
ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
D	PROTOTYPE		<i>10/10/79</i>	<i>W/10/79</i>		
-	PRE PILOT REL RW 0092	J.E.D.	CS		10/17/79	W.Han
E	ECO 13-5545	AB	CS		10/17/79	W.Han
F	ECO 13-5703 SHEET 3 ITEM 7 CAN NOT BE INCORPORATED AT THIS TIME	UED	CS		10/17/79	W.Han
G	ECO 13-5792 NOT INCORPORATED					
H	ECO 13-5802 NOT INCORPORATED					
J	ECO 13-5848 NUT INCORPORATED					
K	ECO 13-5910		CS		10/18/79	O.Singer
L	ECO 13-5972A		CS		10/18/79	O.Singer



DETAIL A

SCALE : NONE

~~SEE SEPARATE PARTS LIST~~

- NOTES: UNLESS OTHERWISE SPECIFIED

 1. ASSY PART NO. IS 1002494-04. ASSY, PL & WL ARE TRACKING DOCUMENTS.
 2. WORKMANSHIP PER 99-0007-001.
 3. MARK ASSY DASH NO. & REV LEVEL WITH CONTRASTING PERM COLOR, NON-CONDUCTIVE, .12 HIGH, APPROX WHERE SHOWN.
 4. MARK VENDOR I.D. WITH CONTRASTING PERM COLOR, NON-CONDUCTIVE, .12 HIGH, APPROX WHERE SHOWN.
 5. FOR SHORTING PLUG JUMPER OPTIONS SEE WIRE ROUTING LIST 'WL 1002494'.
 6. FOR JUMPER WIRE INSTALLATION SEE WIRE ROUTING LIST WL1002494

ITEM NO.	PART NUMBER	DESCRIPTION			
		PARTS LIST			
QUANTITY PER DASH NO.		SIGNATURE	DATE		
UNLESS OTHERWISE SPECIFIED:		DRN BY K.E. /SS/	10-10-5		
DIMENSIONS ARE IN INCHES.		CHK BY /M. H. M/	1/26/76		
BREAK ALL SHARP EDGES.		ENGR'D BY /APV/	10-10-7		
DO NOT SCALE DRAWING.		APV'D /A. H. H./	10-10-7		
TOLERANCES:		APV'D			
ANGLES $\pm 2^\circ$		APV'D			
XX $\pm .03$					
XXX $\pm .010$					
SURFACE FINISH					
NEXT ASSY	USED ON	SIZE	CODE	DWG. NO.	REV
		D	MCS	E/002494	L
		SCALE	MONO E		SHEET 1 OF 1

USER SELECTABLE JUMPERS				
SIGNAL	SH	JUMPER	NOTE	
LOC ACK / 800us	5	22-24		
LOC ACK / 1.6us	5	23-24	[3]	
SYNC	9	10-11, 13-14		
ASYNC	9	11-12, 14-15	[3]	
SYNC	9	2-3, 5-6		
ASYNC	9	1-2, 4-5	[3]	
RS232C	9	8-9		
TTY	9	7-8	[3]	
32K	7	19-18		
48K	7	19-20		
64K	7	19-21	[3]	
OFF BD ACK/	5	27-26	-	
NO OFF BD ACK/	5	25-26		[3]

SPECIAL	JUMPERS	
SIGNAL	SH JUMPER	NOTE
CBRQ	4	C-D
SOD/SID	4	A,E,B,F
-5V SUPPLY	12	G-H

NOTES: UNLESS OTHERWISE SPECIFIED

1. CAPACITANCE VALUES ARE IN MICROFARADS, -80%, -20%, 25V.
 2. RESISTANCE VALUES ARE IN OHMS, 1/4 W, 5%.
 3. JUMPER IS INSTALLED BY FACTORY.

3 JUMPER IS INSTALLED BY FACTORY

DL2	
Y2	
VR1	
RP13	
R43	
Q4	
L2	
CR3	
C118	
A114	A43, A72.
LAST USED	NOT USED
	RFF DESIGN

PNR 4 GND LOCATOR CHART					
REF DESIG	DEVICE TYPE	POWER PINS			SPARE GATES REF DES QTY
		GND	VCC	-5V/2.12	
A10,A26,A44	74500	7	14		A44 1
A57	745300				A57 2
AB,A10,Z1	7450Z				AZ1 2
A74	74503				
A90,A112	74504				A112 2
A9,A39,M46	74LS04				
A1,A5,A65	7406				
A38	74508				
A7	74LS08				A7 1
A25	74S10				A25 1
A15	74LS20				
A113,A35	74532				
A42,A48					
A71	74LS32				
A36,A95	74537				A95 1
A14	7438				
A22	74LS74	7	14		
A85	74S112	8	16		
A37,A110	74S138	8	16		
A3,A111	74-149	8	16		
A4	74LS157	8	16		
A77,A97	74S240	10	20		
A103,A2	74LS240	10	20		
A18,A84	74LS244	10	20		
A101,A106					
A69	74 S112	8	16		
A19,A84	74LS259	8	16		
A19,A80,A100	74S373	10	20		
A6,A47	74LS393	7	14		
AB7,A108	75188	7		14	1
AB8,A107,M07	75189A	7	14		
AB,A18,A21	2117-3	16	9	1	B
A82	21172	12	24		
A67,A68	3625A	9	18		
A83	8085A-2	20	40		
A41	74367	8	16		
A76	8202	20	40		
A96	8219	14	28		
A73	8214	8	16	3	
A90,A91	8251A	4	26		
A86	8253	12	24		
A66,A89	8259A	14	28		
A98,A99	8283	10	20		
A102,A105	8287	10	20		
A104	8304B	10	20		
A20,A23	9602	8	16		
A114	74S74	7	14		
A92,A94	91133				

ITEM NO.	PART NUMBER	DESCRIPTION			
QUANTITY PER DASH NO.		PARTS LIST			
UNLESS OTHERWISE SPECIFIED		SIGNATURE DATE			
1. DIMENSIONS ARE IN INCHES		DRAH BY J. DALTON 1-20-82			
2. BREAK ALL SHARP EDGES.		CHEK BY / 1-21-82			
3. DO NOT SCALE DRAWING.		TECH C. Tongue			
4. TOLERANCES:		APVD 4/6/82			
ANGLE ± 2°		APVD			
X ± .005		APVD			
Z ± .005		APVD			
SURFACE FINISH					
		intel®			
		3555 Bowers Ave. Santa Clara Calif. 95051			
		TITLE			
		SCHEMATIC			
		INTEGRATED PROCESSOR CARD			
SIZE	SCALE	CL. CORNER	VALVE LVL	ASSEMBLY P.NO.	REV
D	1:5	O1	E	123189	A
SCALE		SHEET 1 OF 12			

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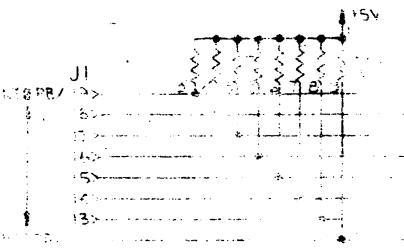
SH 7

REV A

REVISIONS

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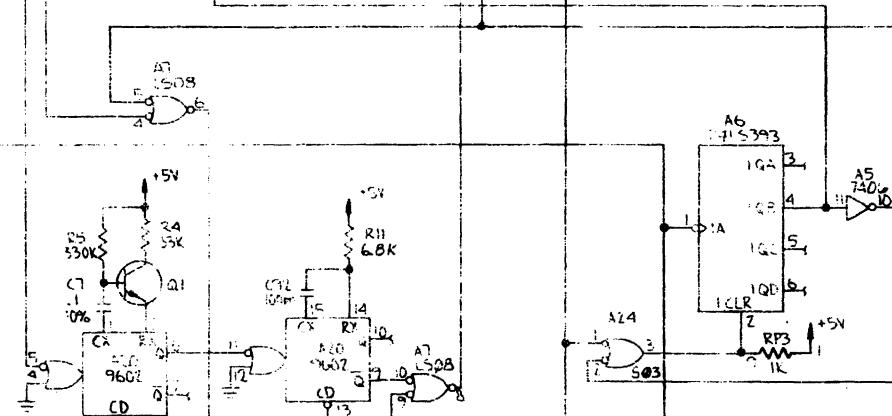
4C1 A03-A05 [A]



8D1 DAI [D]
FLOAT [E]

PUSH BUTTON PRIORITY
RESOLUTION

4C1 INTA/ [F]

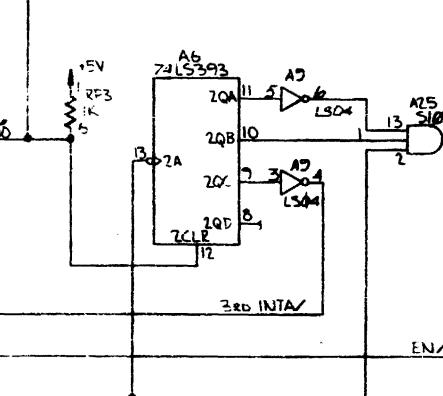
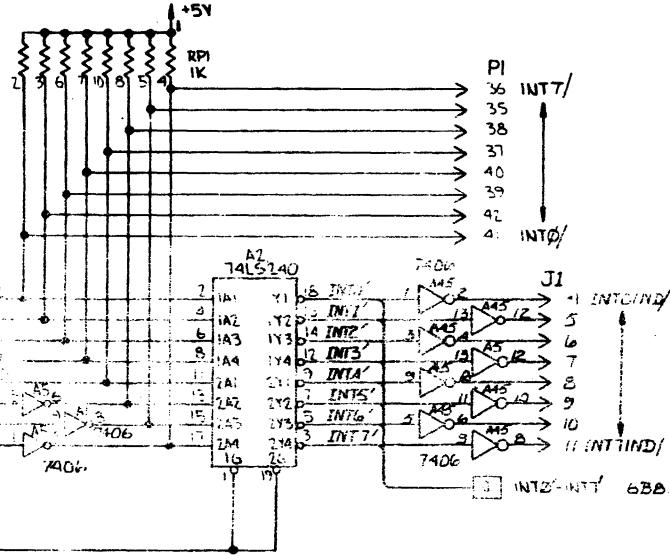


3B1 INTY [G]

4A6 CLK OUT/ [H]

PUSH BUTTON DEBOUNCE

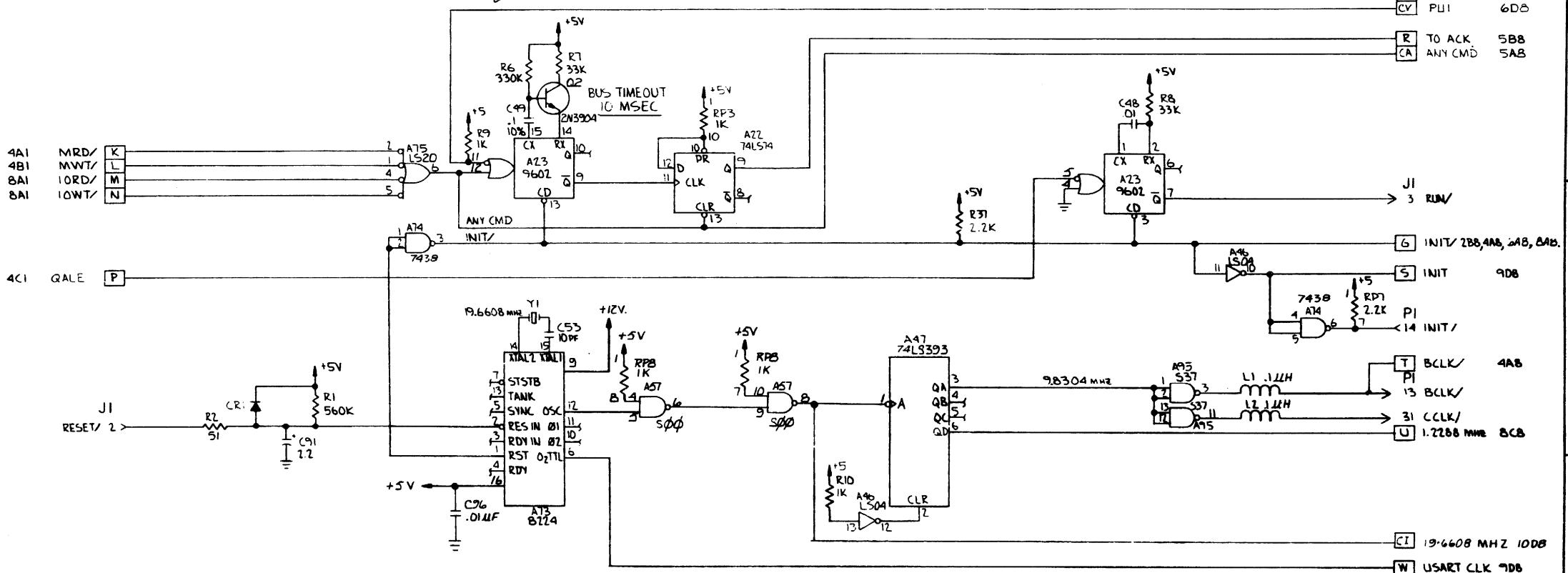
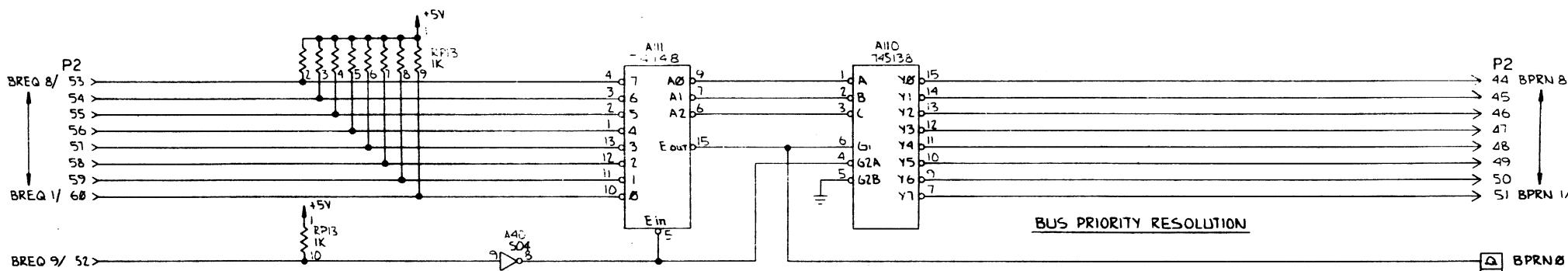
AUTO ACKNOWLEDGE TO PUSH BUTTON INTERRUPTS



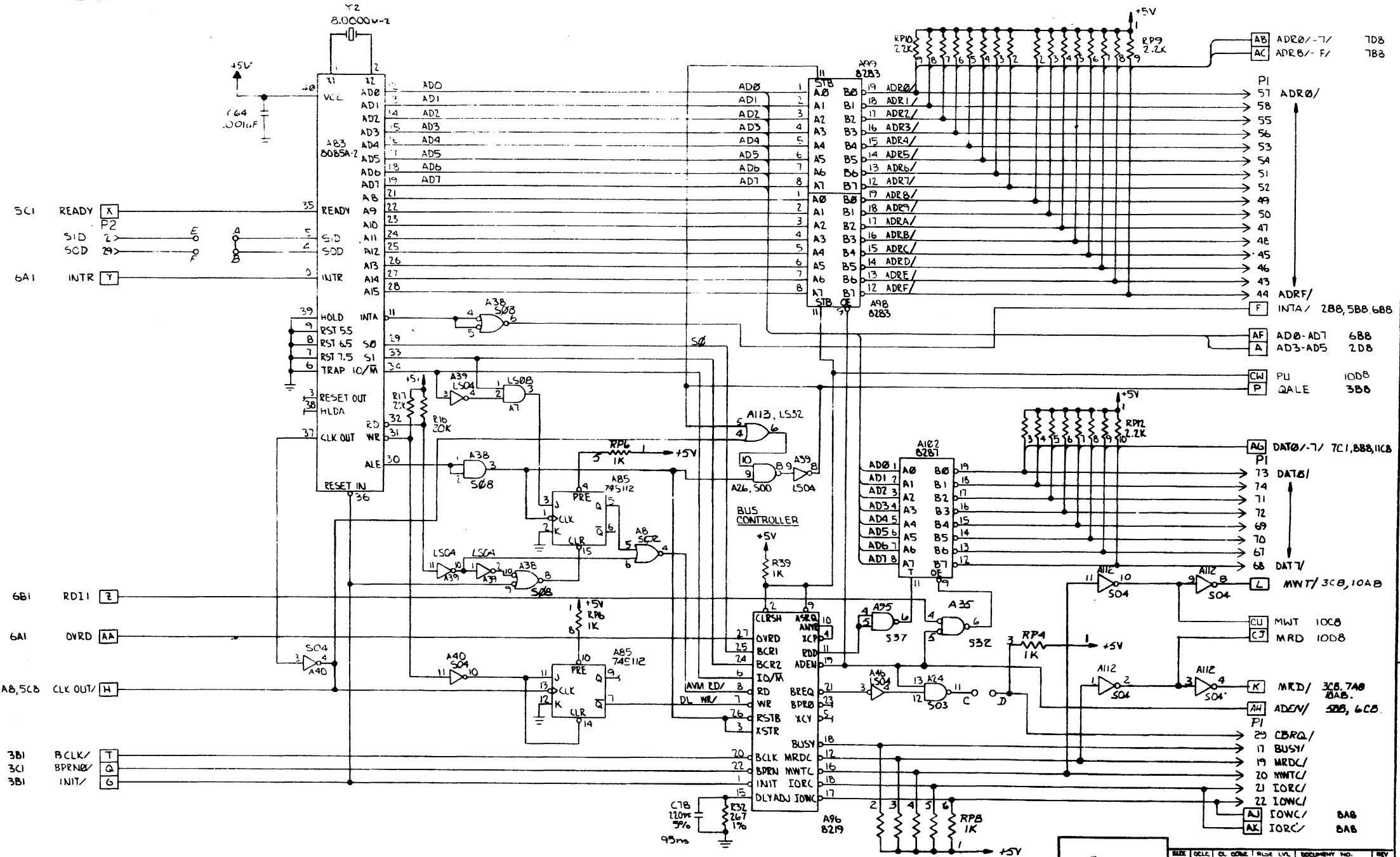
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DRAWN BY: K V/V79 ISSUED	13	01	E	123189	A

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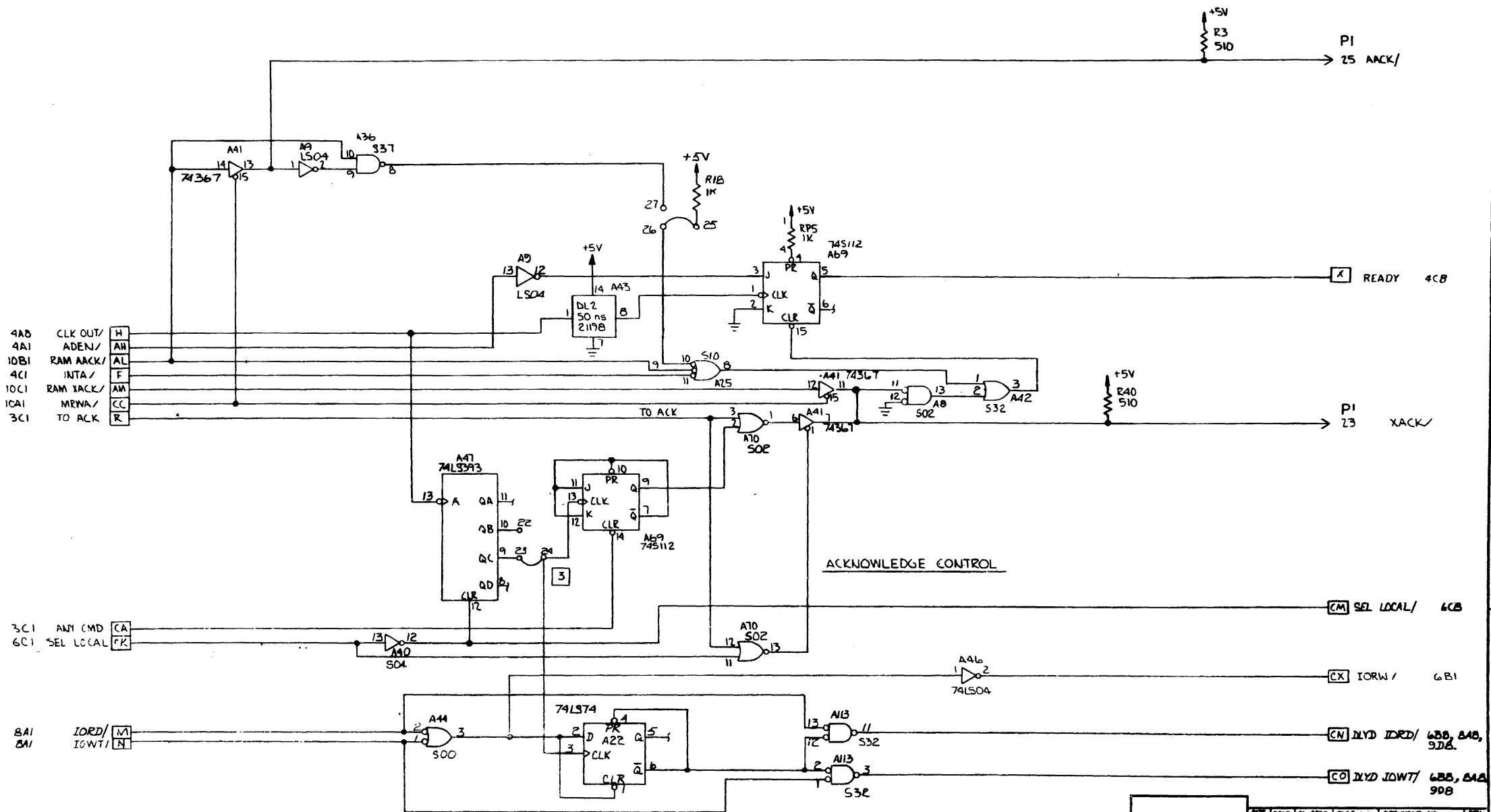


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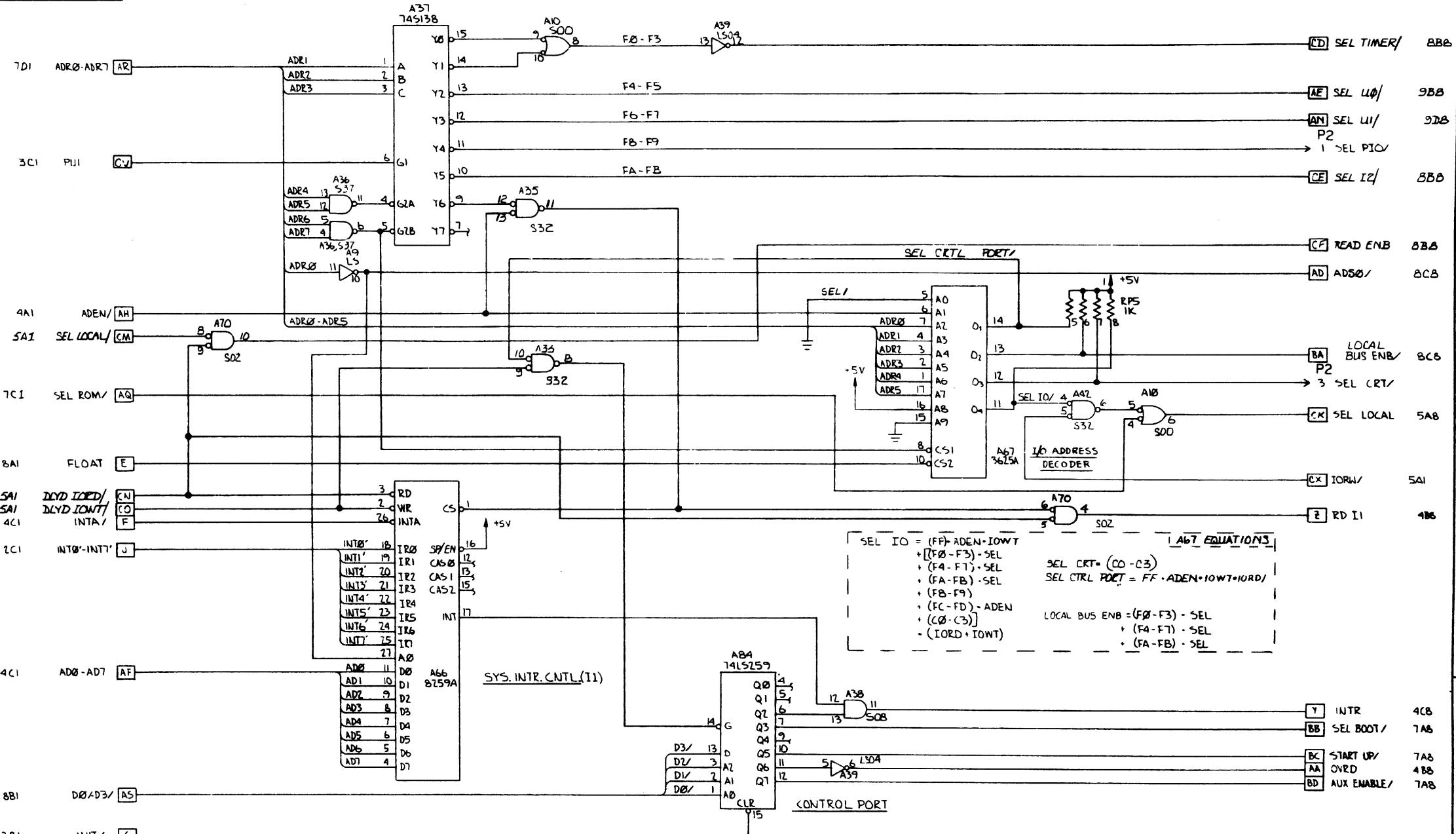
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ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
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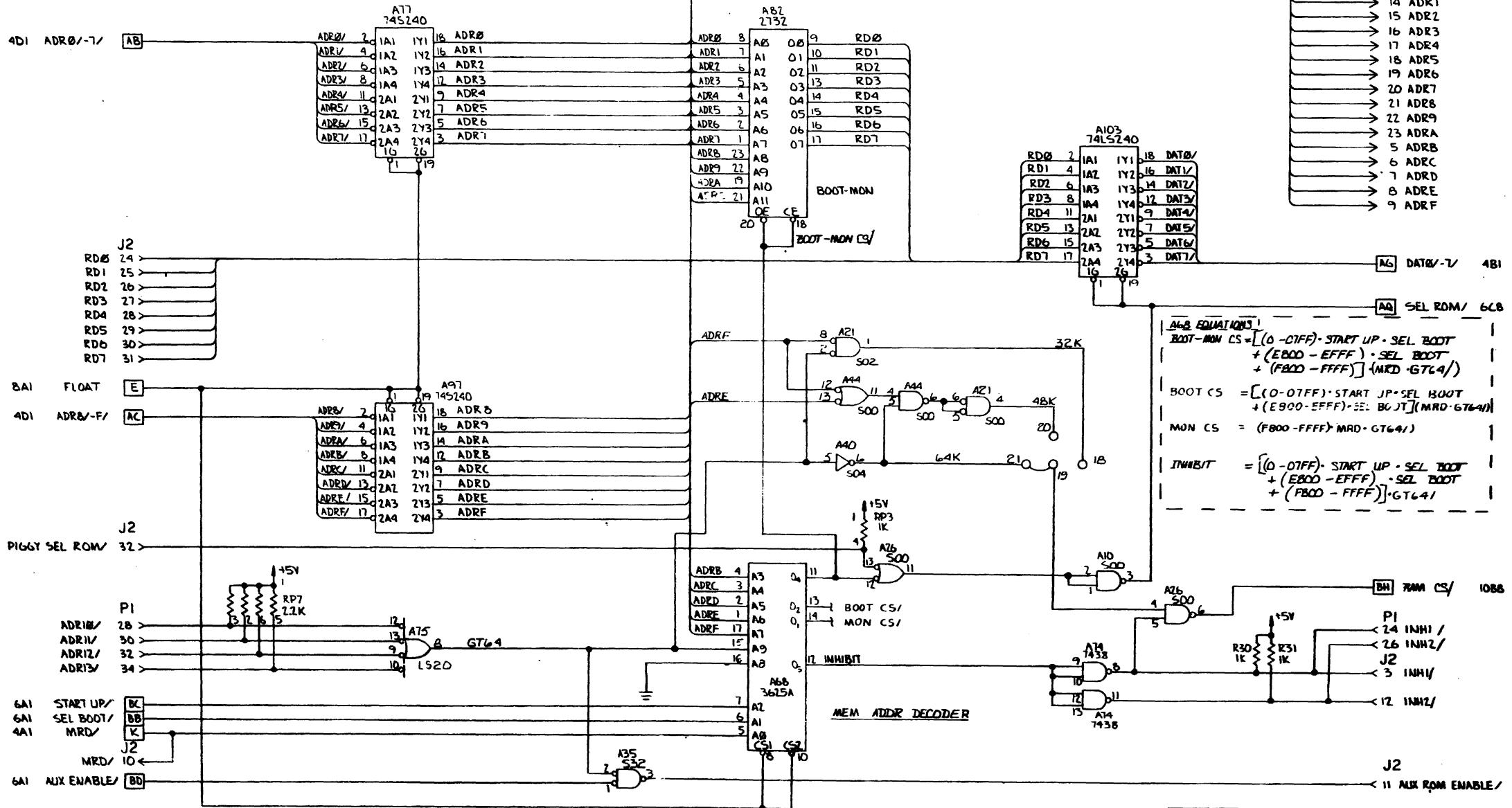
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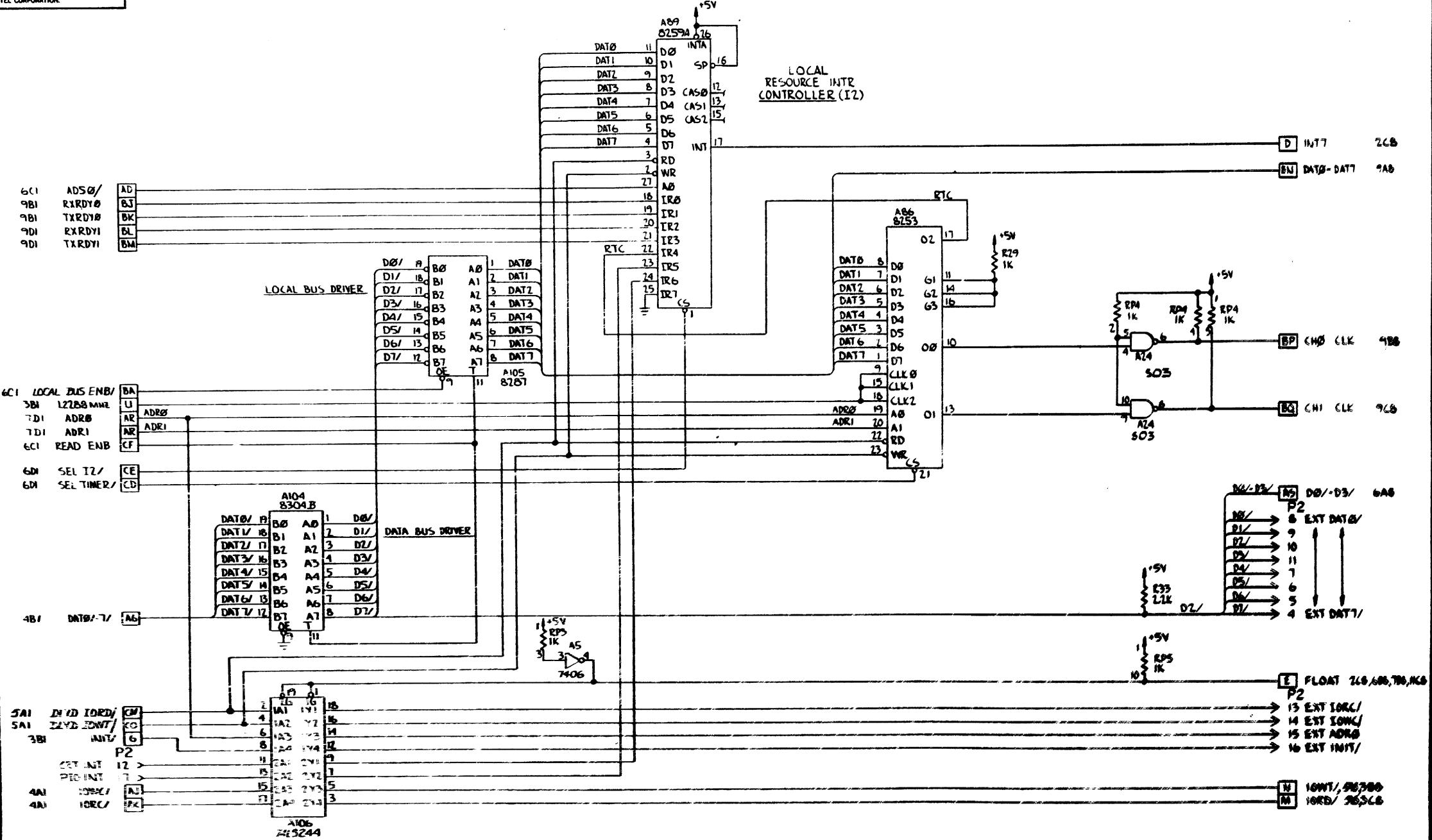
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DRAWN BY <i>Barry K</i> 3-27-70		D	13	01	E	123189	A
ISSUED		SCALE	SHEET 6				

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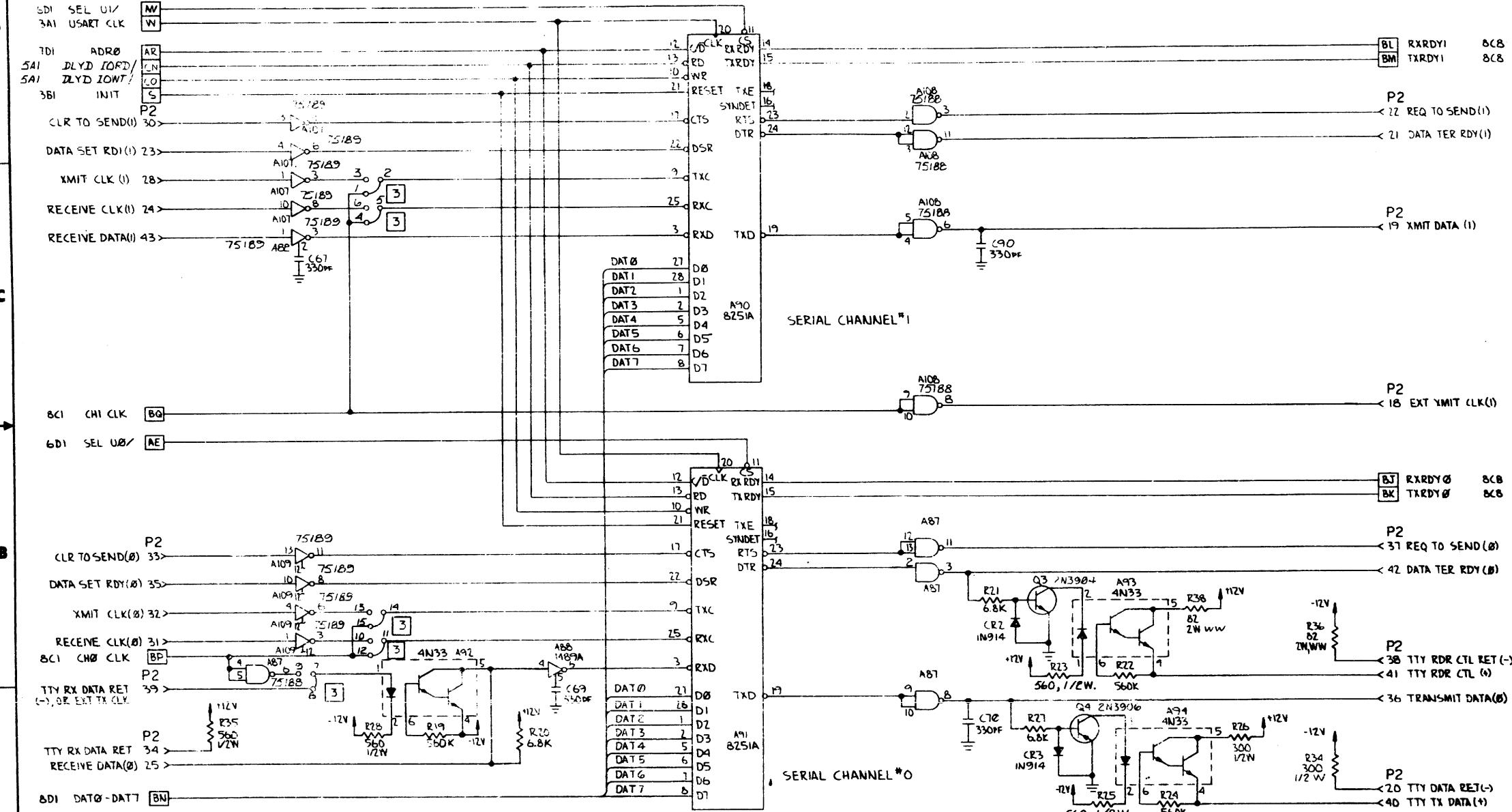
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—	—	SEE SHEET 1	R&V K 1-10-79		—	—



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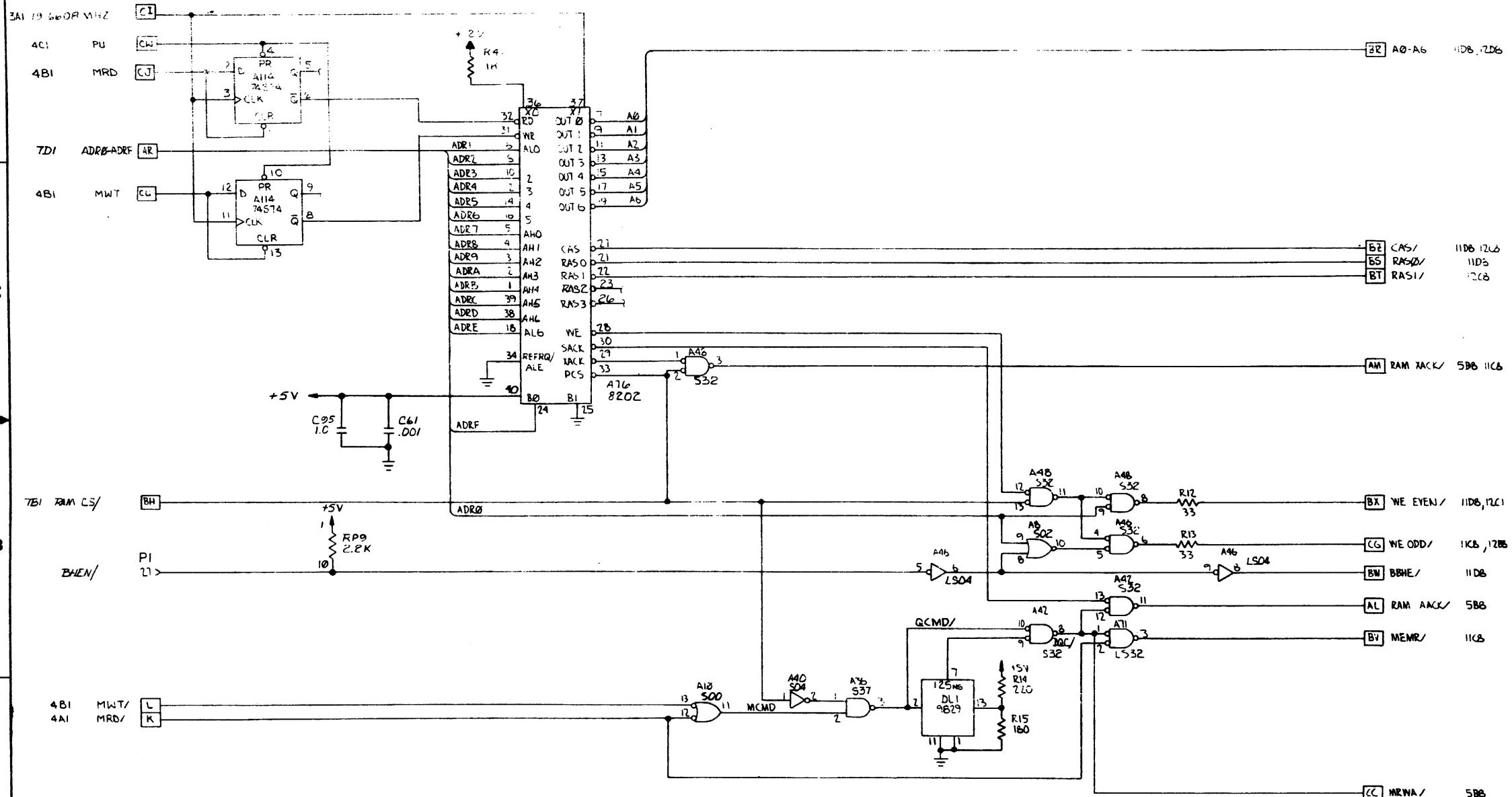
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REV	SIZE	SCALE	CL. CODE	PAGE NO.	DOCUMENT NO.
A	D	13	O1	E	123189

ISSUED BY: K 1/19/79
SCALE: —
REV: A

ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
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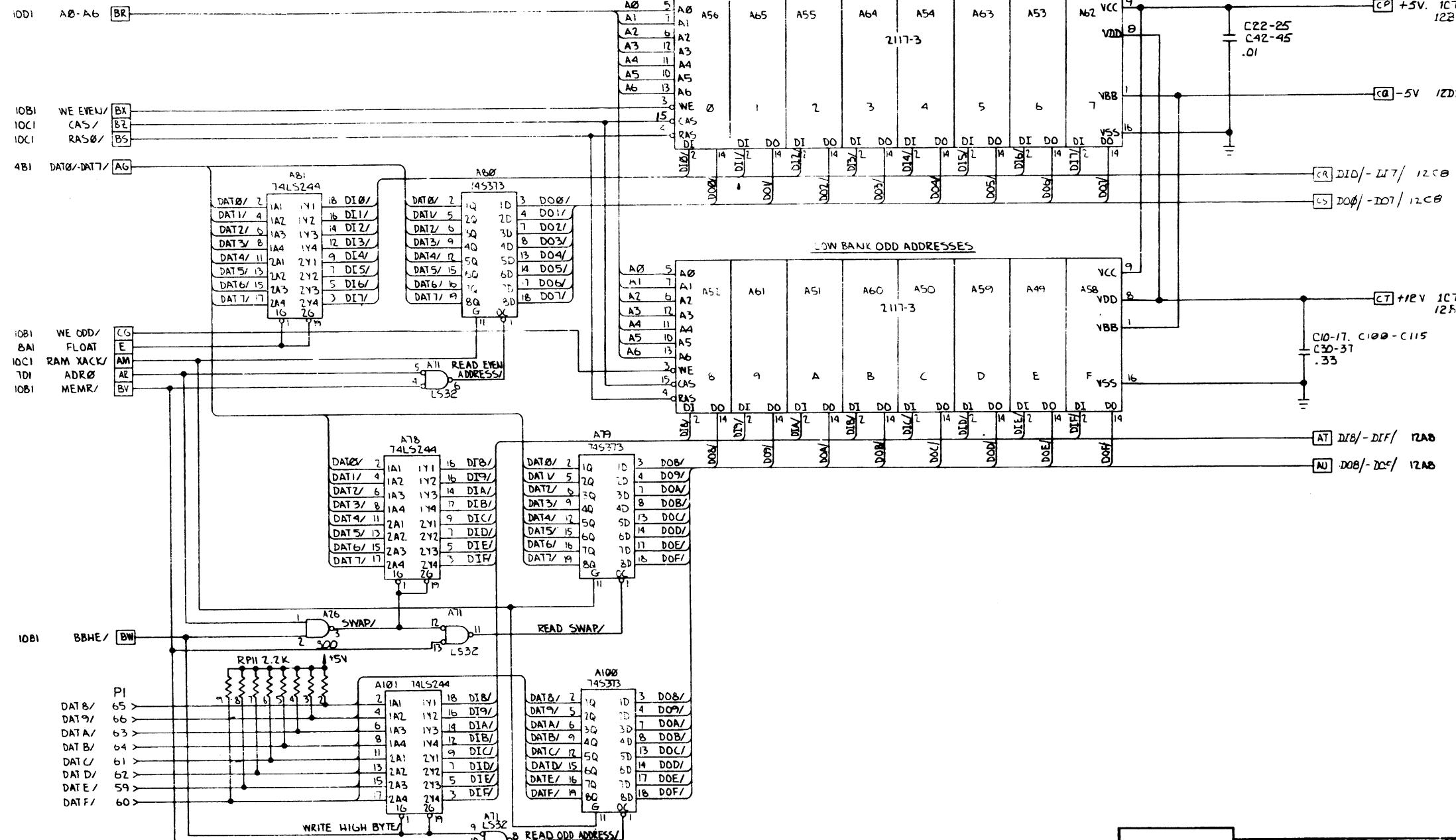
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DWG NO. E 123189 SH 11 REV A

REVISONS

ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
—	—	SEE SHEET 1	EAY/K 1-10-79	—	—	—

LOW BANK EVEN ADDRESSES



ZONE	REV	DESCRIPTION	DFT	CHK	DA.E	APPROVED
—	—	SEE SHEET 1	DATE 1-10-79	—	—	—

D

D

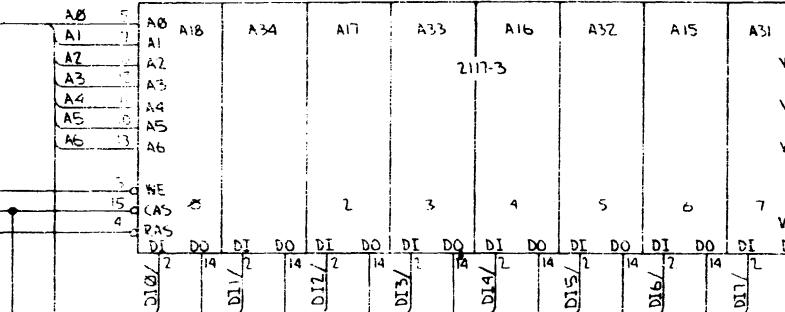
HIGH BANK EVEN ADDRESSES

10DI A0-A6 BR

10BI WE EVEN BX
10CI CAS/ BT
10CI RAS/ BT

11CI DIO/-DIT/ CR

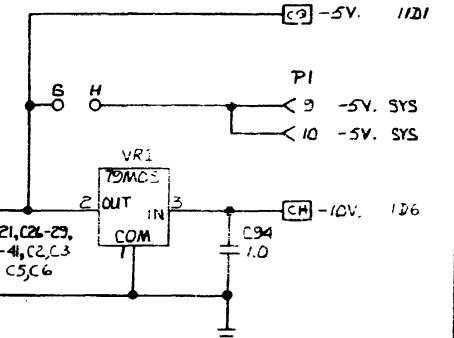
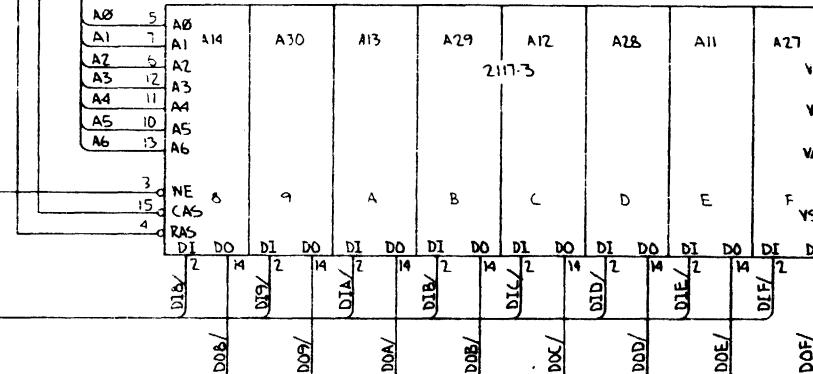
11CI DOB/-DOB/ ES

HIGH BANK ODD ADDRESSES

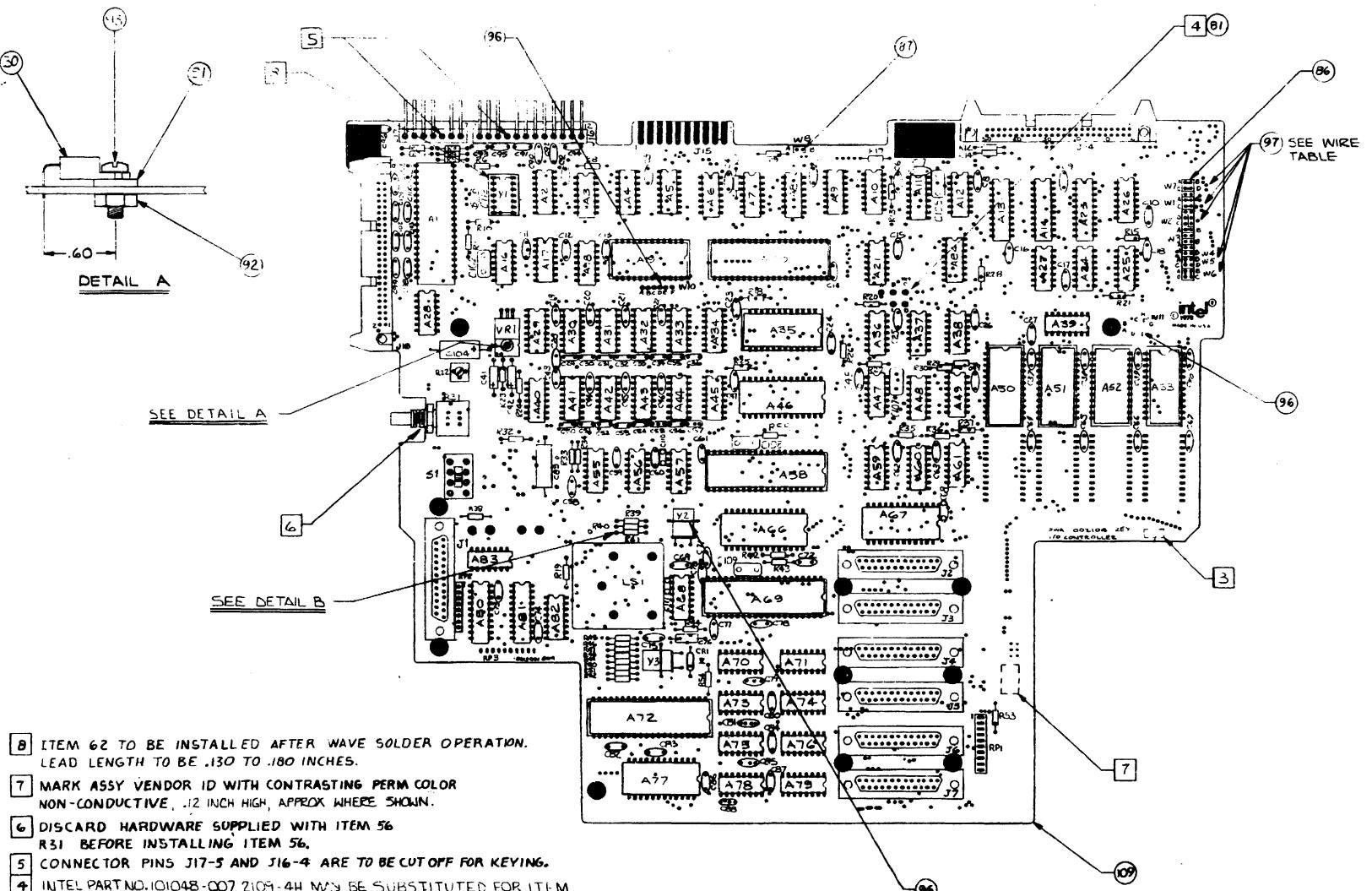
10BI WE ODD/ CG

11BI DIB/-DIF/ AT

11BI DOB/-DOB/ AU

IC7,
11CI.
IC8,
11CI.

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INTEL CORPORATION.



8 ITEM 62 TO BE INSTALLED AFTER WAVE SOLDER OPERATION.
LEAD LENGTH TO BE .130 TO .180 INCHES.

7 MARK ASSY VENDOR ID WITH CONTRASTING PERM COLOR
NON-CONDUCTIVE, .12 INCH HIGH, APPROX WHERE SHOWN.

6 DISCARD HARDWARE SUPPLIED WITH ITEM 56
R31 BEFORE INSTALLING ITEM 56.

5 CONNECTOR PINS J17-5 AND J16-4 ARE TO BE CUT OFF FOR KEYING.

4 INTEL PART NO. 101048-007.2104-4H MAY BE SUBSTITUTED FOR ITEM
17, INTEL PART NO. 101048-008 IF THE FOLLOWING CONDITIONS ARE MET:
A) 101048-008 AND 101048-007 SHALL NOT BE MIXED ON THE SAME ASSY AND
B) ASSYS USING 101048-007 MUST HAVE THE JUMPER PLUG W9B-W9E
REMOVED AND W9B-W9A ADDED.

3 MARK ASSY DASH NO & REV LEVEL WITH CONTRASTING
PERM COLOR, NON-CONDUCTIVE, .12 INCH APPROX WHERE SHOWN.

2 WORKMANSHIP PER MCD DRAWN 99-0007-C01.
1 ASSY PART NO. IS 1002104-05. ASSY AND
P/L ARE TRACKING DOCUMENTS.

NOTE: UNLESS OTHERWISE SPECIFIED,

10. ITEMS 63 & 64 TO BE INSTALLED AND HAND
SOLDERED AFTER WAVE SOLDER OPERATION.

9. ITEM 65 LEADS MAY PROTRUDE THRU
BOARD TO A MAXIMUM OF .200 INCHES.

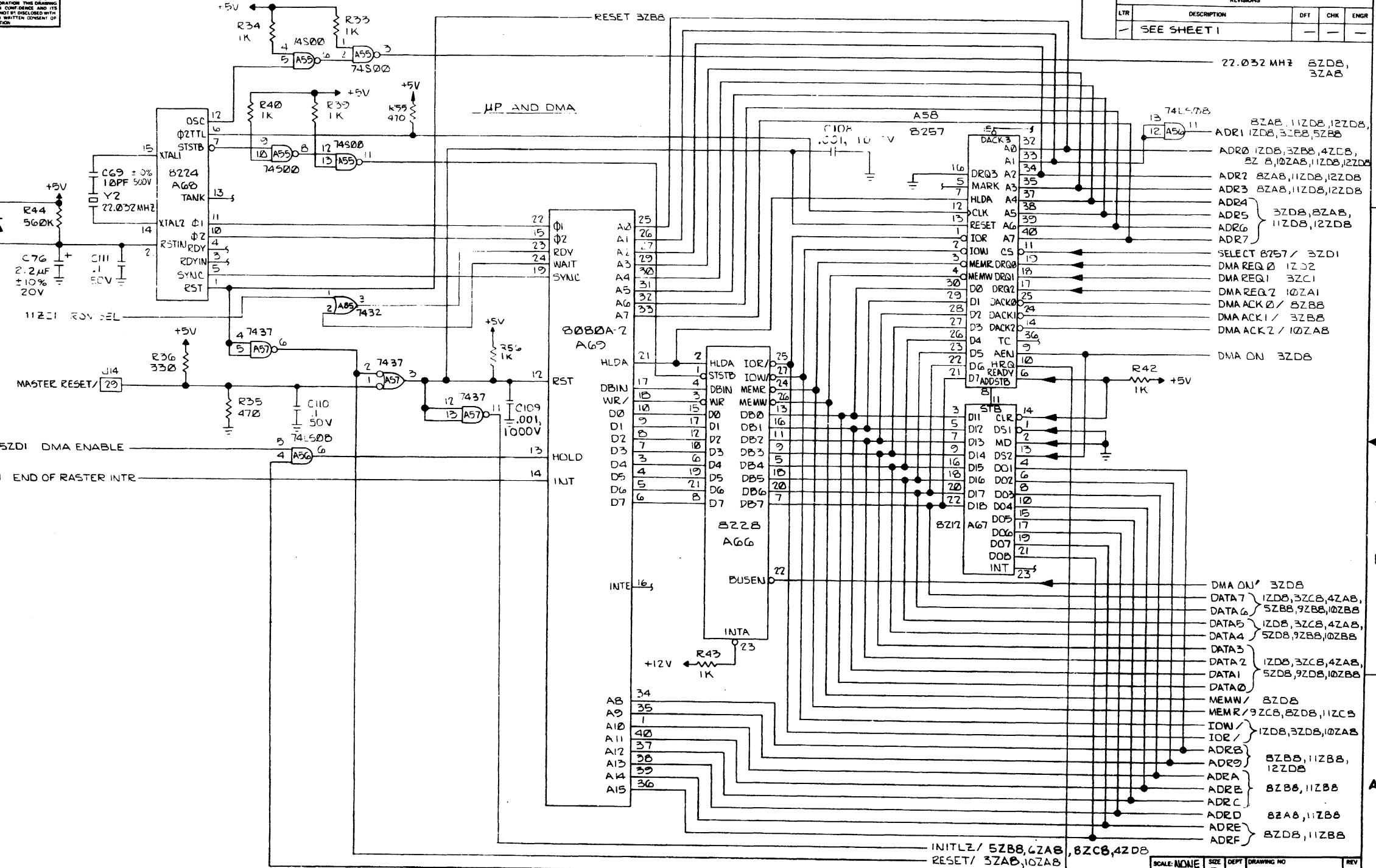
SEE SEPARATE PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	PARTS LIST					
			SCALE 1:1			SIGNATURE	DATE	
TOL	2 PLC	3 PLC	ANGLE	DRN BY	7/16/83	PRINTED WIRING ASSEMBLY	I/O CONTROLLER	
4001248	MDS-210/241			DRN BY	JEFF STEIN			
4001248	MDS-227/431			CHK BY				
				DFT	7/16/83			
				ENG'D	7/16/83			
				APP'D	7/16/83			
				AUTO	7/16/83			
				REV				
				CODE:		SHEET 1 OF 1		
				DEPT		DRAWING NO		
				D		P 1002104		

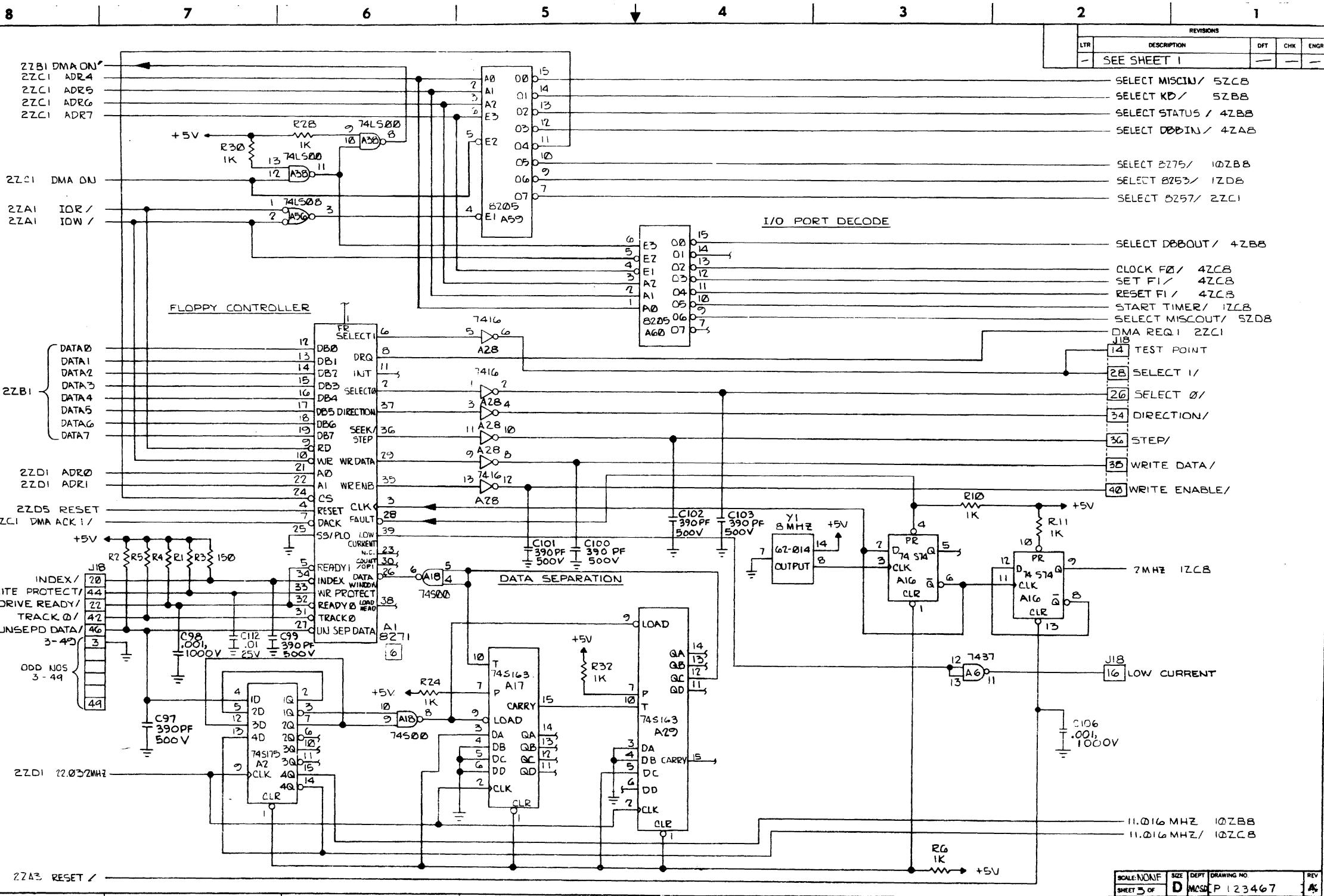
REVISIONS

LTR	DESCRIPTION	SIGNATURE AND DATE
1	ENGINEERING RELEASE	DEF 7/16/83
2	ECC 2-2325	JC 5/18/83
A	ECO 2-3151	JC 5/18/83
B	ECO 2-3629	YM 5/18/83
C	ECC 2-4565	YM 5/18/83
D	ECO 2-4620	YM 5/18/83
-	LIM. PROD. REL. RW 0063	WRC 5/18/83
E	ECO 2-5107	WRC 5/18/83
F	ECC 2-5060	WRC 5/18/83
G	ECO 2-5304A	WRC 5/18/83
H	ECC 2-5177	WRC 5/18/83
J	ECC 13-5552	WRC 5/18/83
K	ECC 13-5824	WRC 5/18/83
L	ECC 13-5900	WRC 5/18/83
M	ECC 13-5895	WRC 5/18/83
N	PROD RLSE PER ECO 13-6306	WRC 5/18/83
O	ECO 3-16404	WRC 5/18/83

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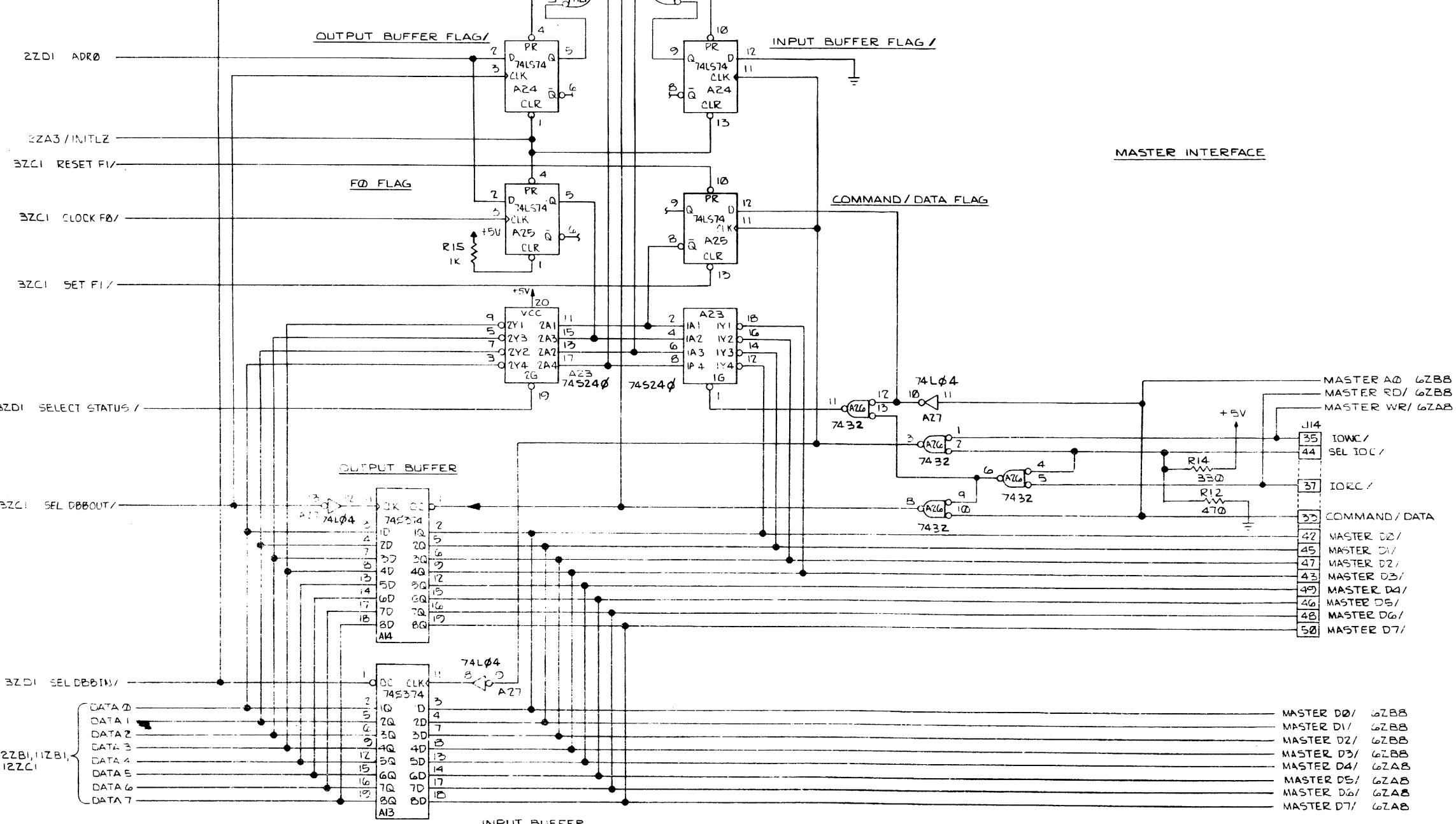
SCALE: NONE	SIZE D	DEPT MCS	DRAWING NO 123467	REV A
SHEET 2 OF 1				



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REVISONS

LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1	-	-	-



REVISIONS

LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1	-	-	-

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D

D

10ZDI 50 HZ JMPV/

12D3 TIMER/

2ZB1

3ZC1 SELECT MISOUT/

3ZD1 SELECT MISIN/

2ZB1

2ZB1 DATA6

2ZB1 DATA7

3ZD1 SELECT KB/

2ZD1 ADRI

2ZA3 INITL/

DATA0

DATA1

DATA2

DATA3

DATA4

DATA5

DATA6

DATA7

DATA8

DATA9

DATA10

DATA11

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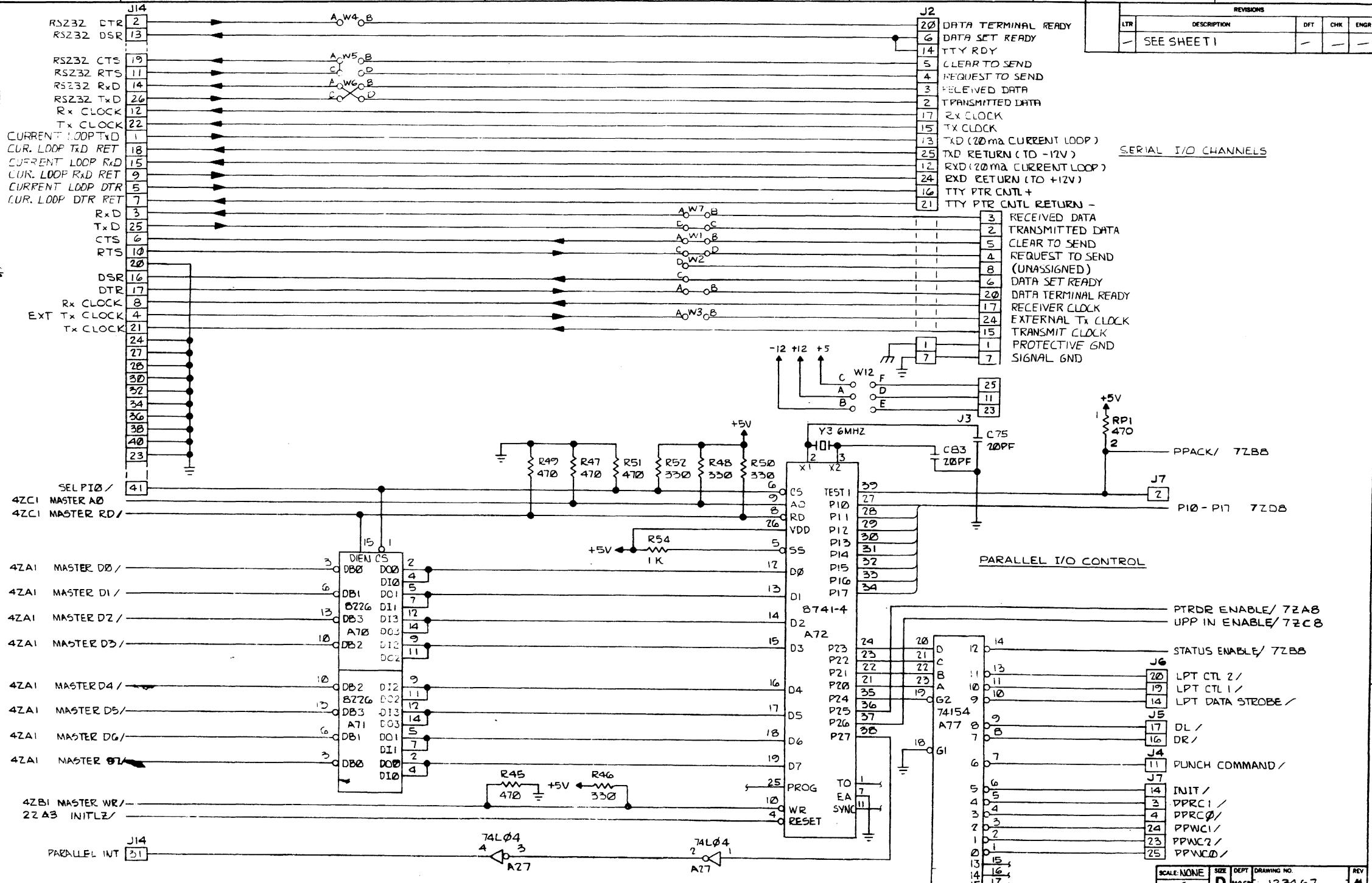
DATA287

DATA288

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DATA290

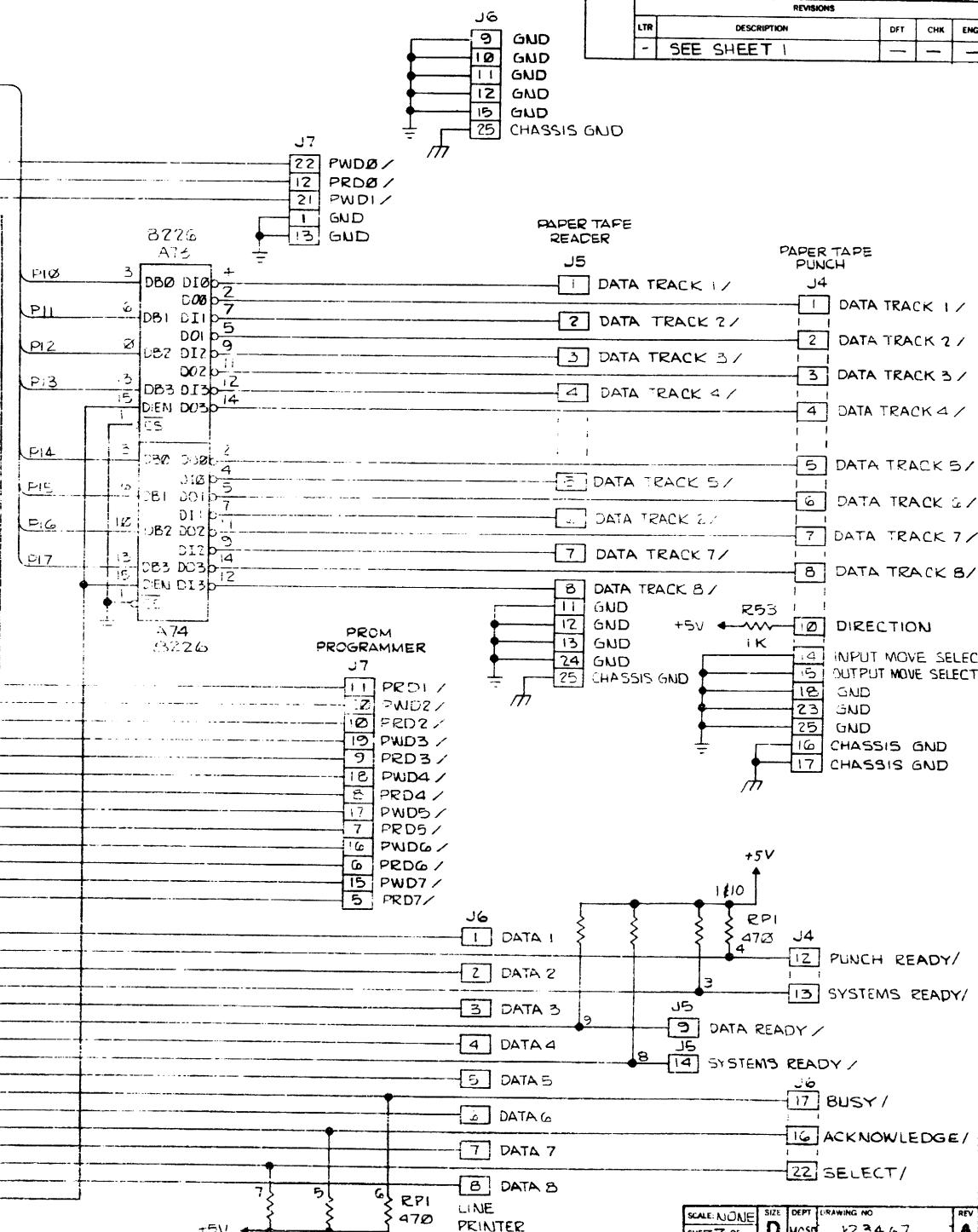
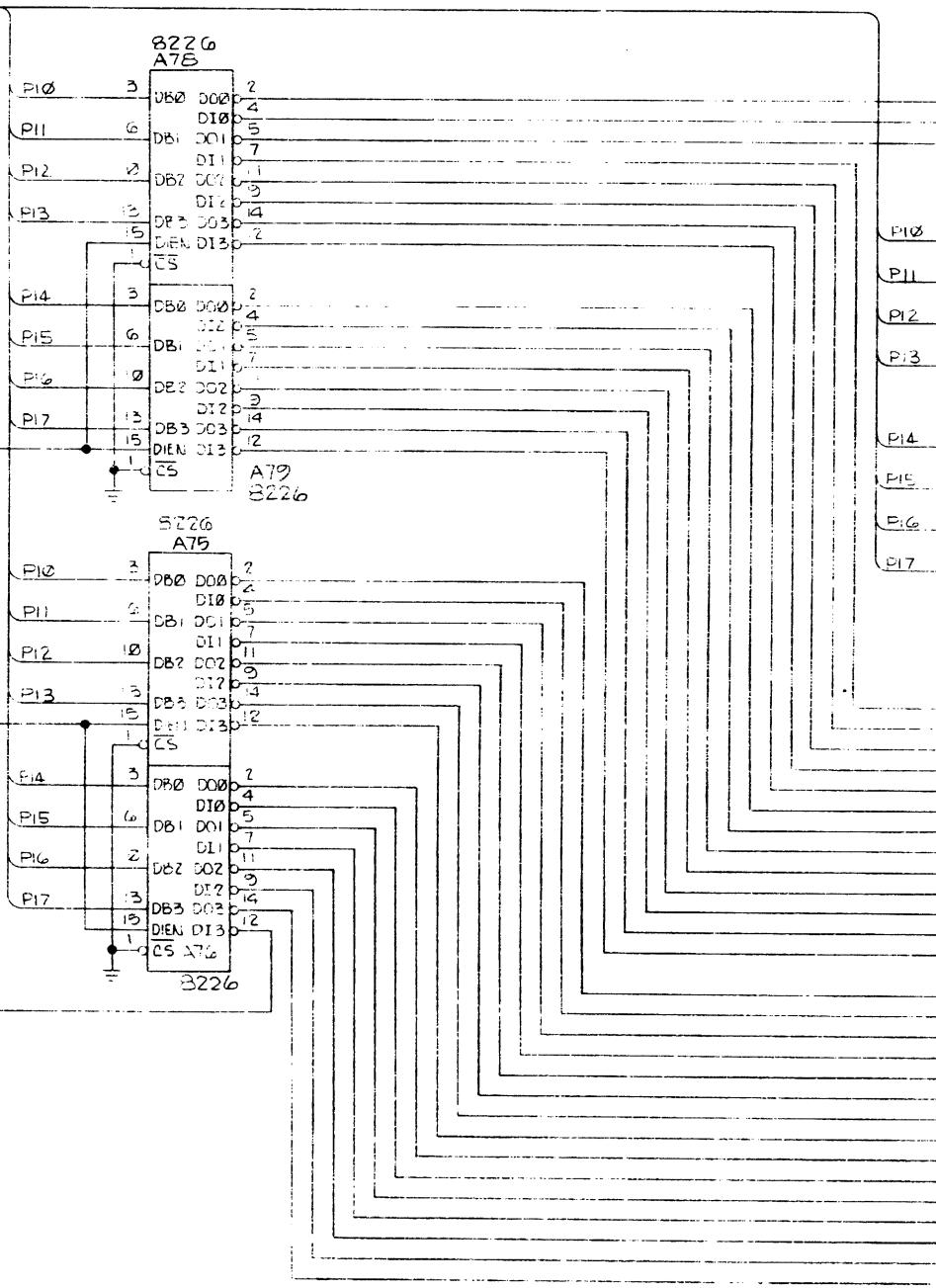
DATA29



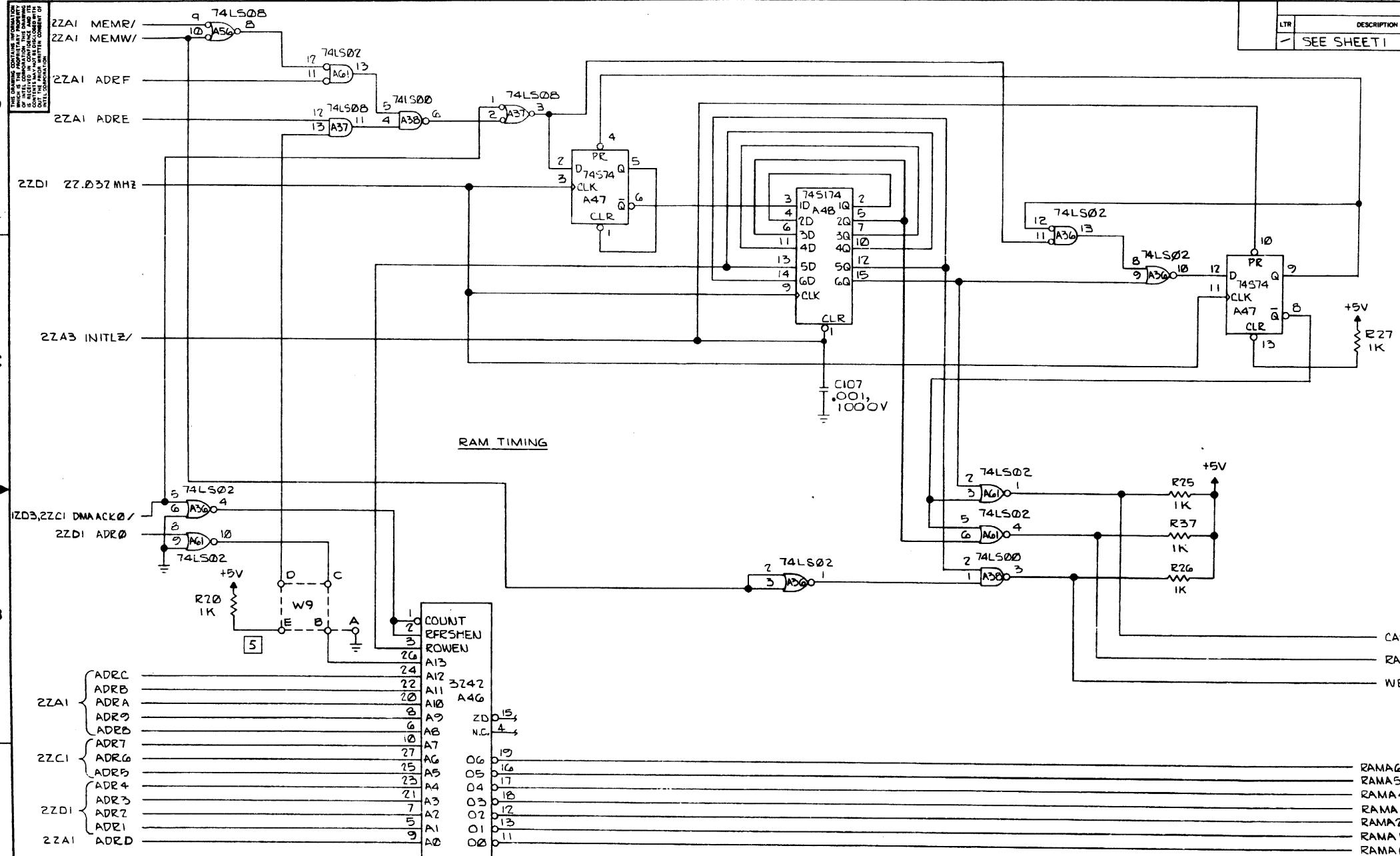
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GZBI PIO-P17

PARALLEL I/O



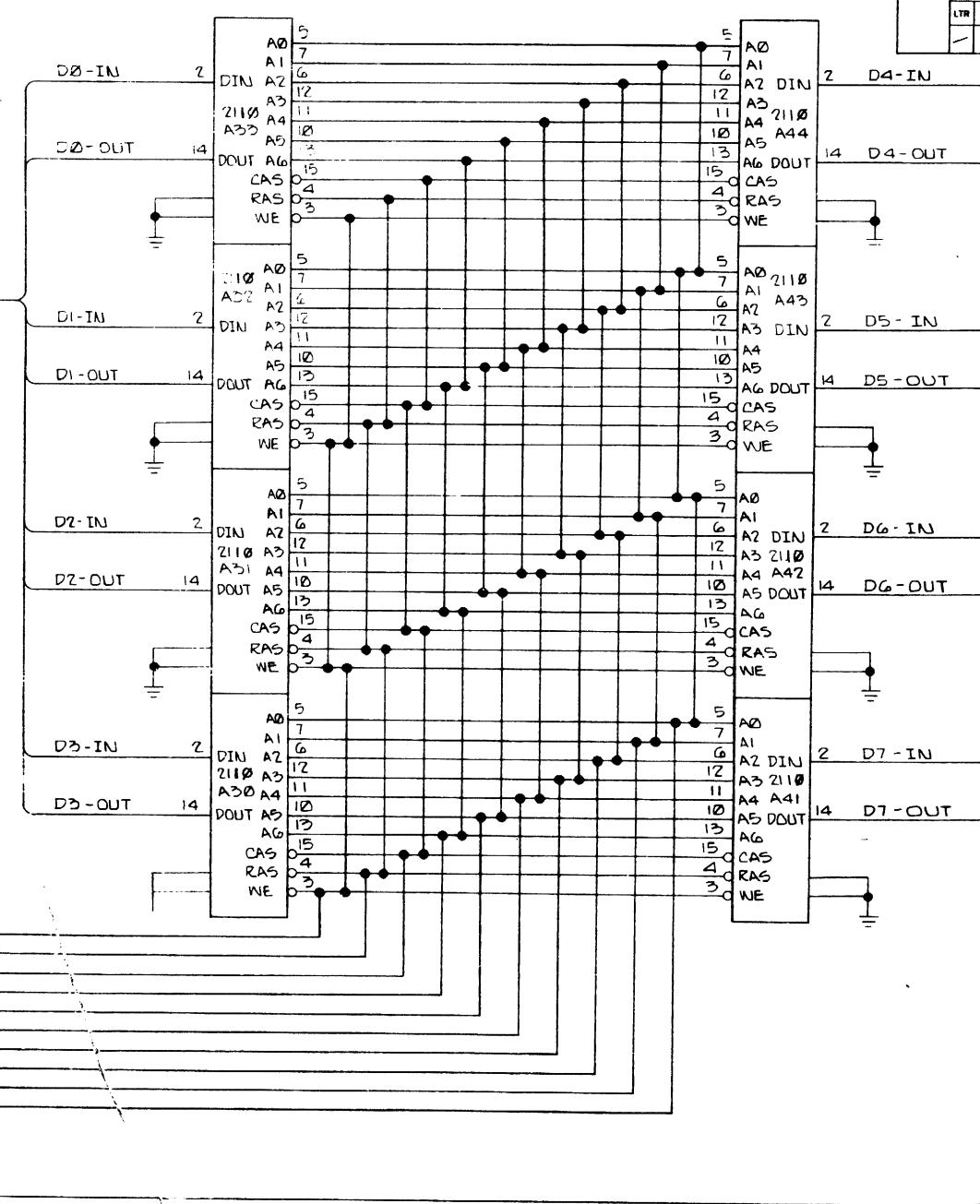
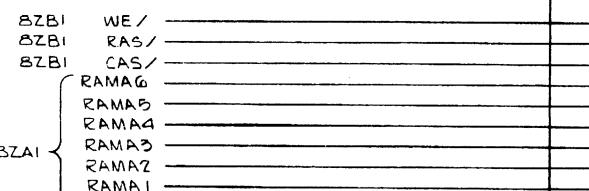
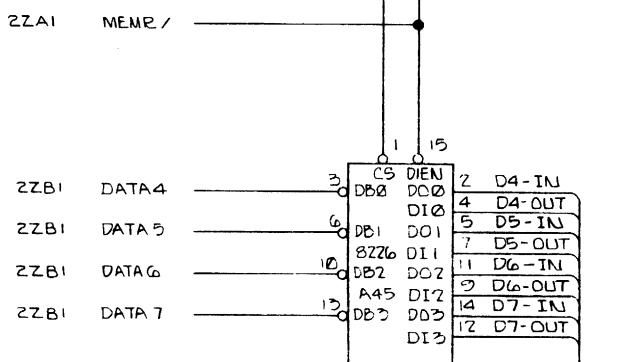
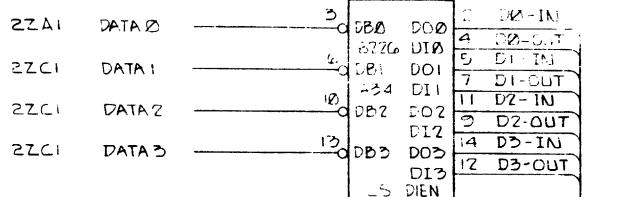
LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1	-	-	-



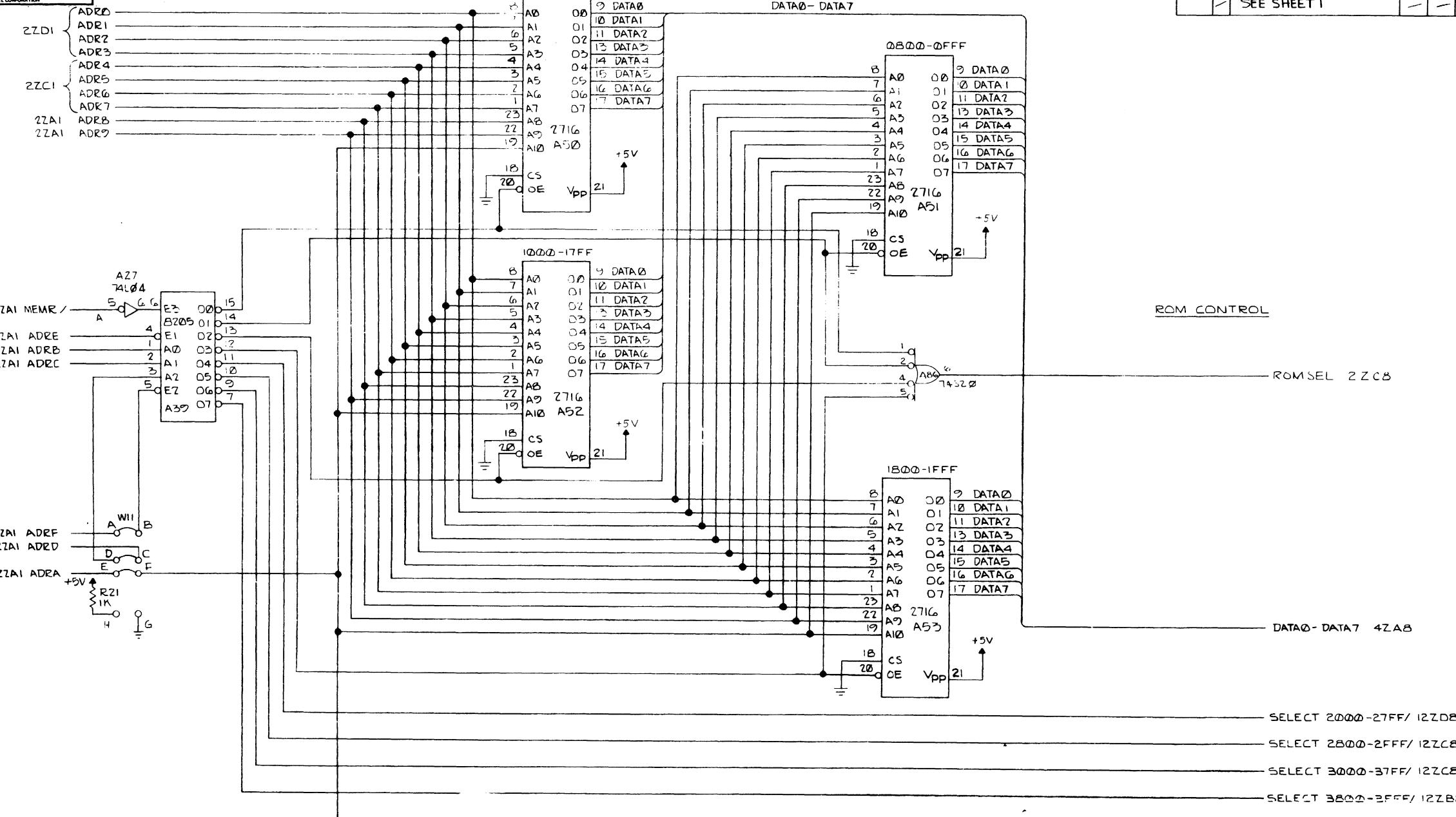
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REV. A

REVISIONS			
LTR	DESCRIPTION	DFT	CHK
/	SEE SHEET 1	-	-



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SCALE: NOVA	SIZE	DEPT	DRAWING NO.	REV
SHEET 1 OF	D	MCSO	123467	A

8

7

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1

REVIEWS

LTN	DESCRIPTION	DFT	CHK	ENGR
	SEE SHEET 1	/	/	/

D

D

2ZDI {
 ADR0
 ADR1
 ADR2
 ADR3
 ADR4
 ADR5
 ADR6
 ADR7
 2ZAI {
 ADR8
 ADR9
 ROM ADDRESS
 A10 11ZAI

SELECT 2000-27FF/
 11ZAI

SELECT 2800-2FFF/
 11ZAI

SELECT 3000-37FF/
 11ZAI

SELECT 3800-3FFF/
 11ZAI

2000-27FF

A0	00	DATA0
A1	01	10 DATA1
A2	02	11 DATA2
A3	03	12 DATA3
A4	04	13 DATA4
A5	05	14 DATA5
A6	06	15 DATA6
A7	07	16 DATA7

23	22	2716
22	21	A7
19	18	A6
10	11	A5
10	12	A4
11	13	A3
12	14	A2
13	15	A1
14	16	A0

3000-37FF

A0	00	DATA0
A1	01	10 DATA1
A2	02	11 DATA2
A3	03	12 DATA3
A4	04	13 DATA4
A5	05	14 DATA5
A6	06	15 DATA6
A7	07	16 DATA7

23	22	2716
22	21	A64
19	18	A63
10	11	A62
10	12	A61
11	13	A60
12	14	A59
13	15	A58
14	16	A57

3800-3FFF

A0	00	DATA0
A1	01	10 DATA1
A2	02	11 DATA2
A3	03	12 DATA3
A4	04	13 DATA4
A5	05	14 DATA5
A6	06	15 DATA6
A7	07	16 DATA7

23	22	2716
22	21	A65
19	18	A66
10	11	A67
10	12	A68
11	13	A69
12	14	A70
13	15	A71
14	16	A72

DATA0 - DATA7

2800-2FFF

A0	00	DATA0
A1	01	10 DATA1
A2	02	11 DATA2
A3	03	12 DATA3
A4	04	13 DATA4
A5	05	14 DATA5
A6	06	15 DATA6
A7	07	16 DATA7

23	22	2716
22	21	A63
19	18	A62
10	11	A61
10	12	A60
11	13	A59
12	14	A58
13	15	A57

3800-3FFF

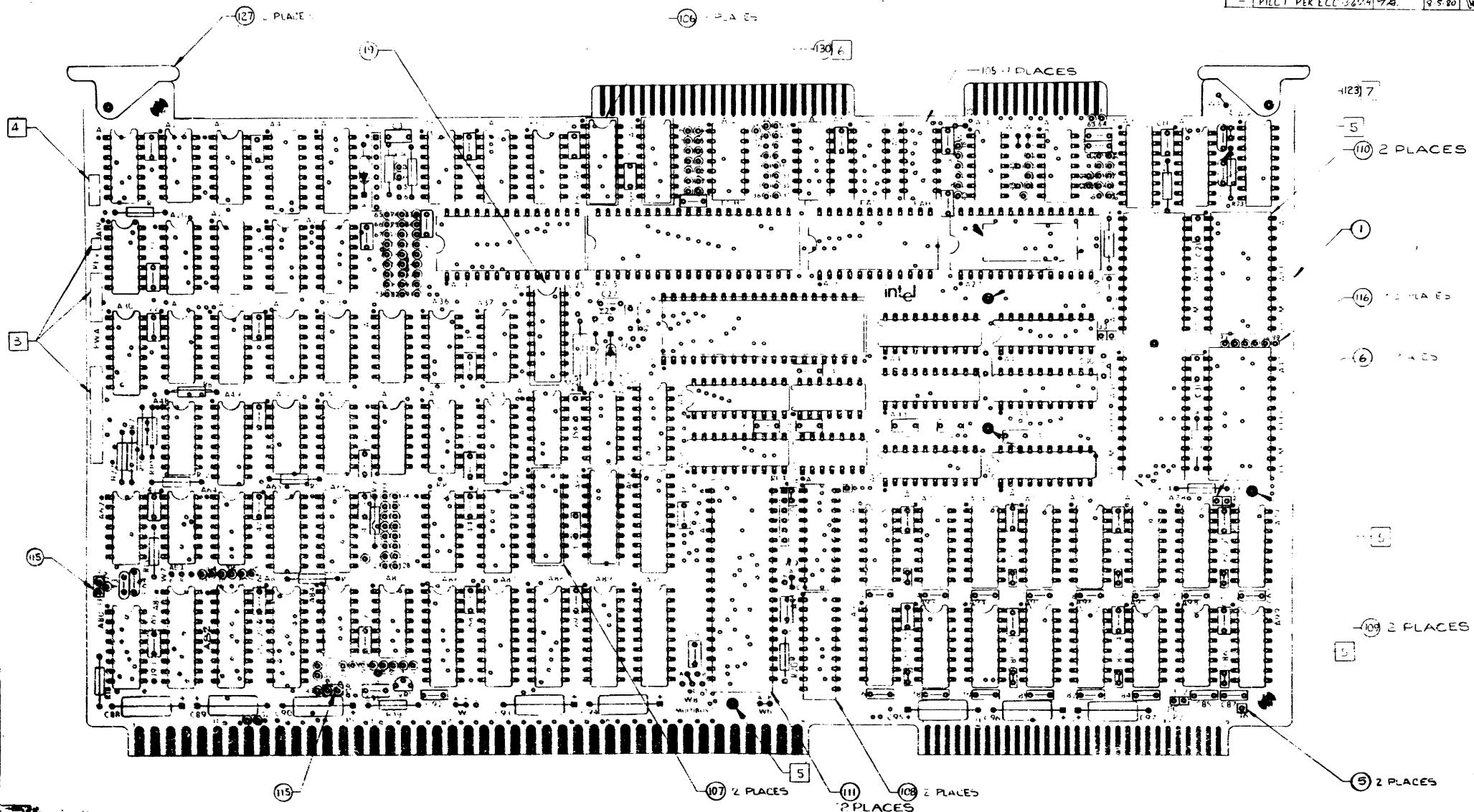
A0	00	DATA0
A1	01	10 DATA1
A2	02	11 DATA2
A3	03	12 DATA3
A4	04	13 DATA4
A5	05	14 DATA5
A6	06	15 DATA6
A7	07	16 DATA7

23	22	2716
22	21	A65
19	18	A66
10	11	A67
10	12	A68
11	13	A69
12	14	A70
13	15	A71
14	16	A72

DATA0 - DATA7 4ZAB

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REVISIONS						
REV	DESCRIPTION	SFT	DATE	CHK	DATE	APVD
A	PROTO	82-100		79	1/6/80	TPC
-	PILCT PER ECC-36594	7A	8-5-80	✓	4-5-80	EA



NOTES: UNLESS OTHERWISE SPECIFIED

- ASSY PART NO. IS 123327-001. 4 MARK ASSY VENDOR ID WITH CONTRASTING PERM COLOR, *ON-CONDUCTIVE, .12 HIGH APPRO WHERE SHOWN.

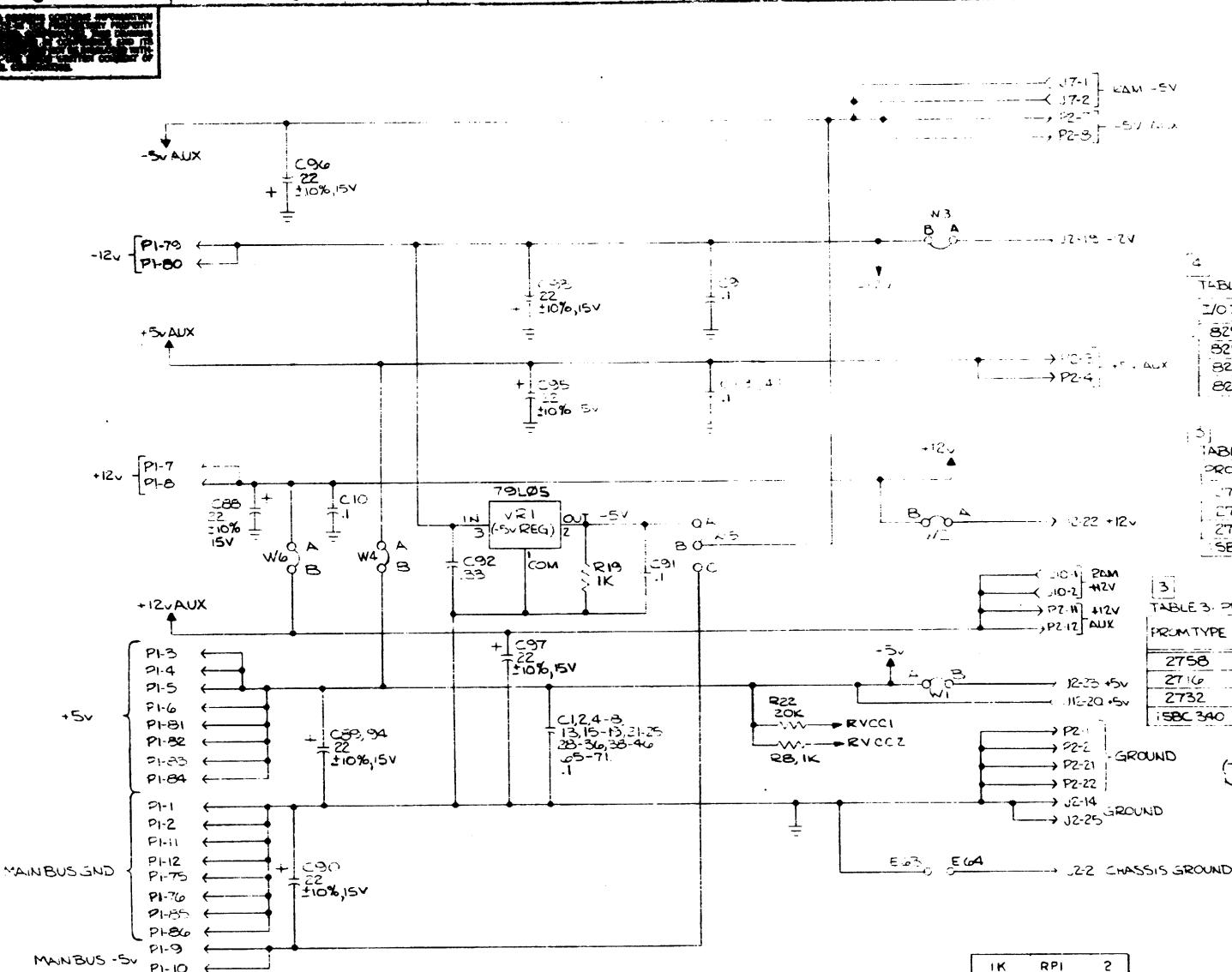
ASSY, PL AND WL ARE TRACKING DOCUMENTS
WORKMANSHIP PER 99-0007-001.

IDENTIFY WITH RPA-BG.45351 MARK NO. 5
LEVEL USING CONTRASTING
COLOR, NON-CONDUCTIVE,
HIGH APPROX WHERE SHOWN.

5 HOLES TO BE FREE OF SOLDER

- 6 PLACE LABEL ITEM 130 ON
SOLDER SIDE OF PWA AT
LOCATION A27 APPROX WHERE
SHOWN. LABEL MUST NOT
TOUCH IC. OR RESISTOR PADS.
 - 7 COVER CRYSTAL CASE WITH ITE
163, SHRINK TUBING.

123329	MDS-556
NEXT ASSY	USED ON



NOTES: UNLESS OTHERWISE SPECIFIED

- ALL RESISTANCE VALUES ARE IN OHMS, $\pm 5\%$, $1/4$ WATT
 - ALL CAPACITANCE VALUES ARE IN MICROFARADS, -50% , -20% , 50 VDC
 - SEE TABLES 2 AND 3 FOR FROM SELECTION.
 - SEE TABLE 1 FOR I/O SELECTION.

P2	C98	C14	IK	RPI	2
E152		EL1,2,109, E100,101, 102,110,111, 146-150	IK	RP2	4
CR2	A99	AND 11,12,13, A12,22,24,47 14,28,31 26	10K	RP3	1
J12	R23		2.2K	RP4	1
R24	V3				
S1	V1				
V9					
AS USED, NOT USED			TYPE	REF DES	GTV
DEF DESIGNATIONS				SPARES	

TABLE 2: PROM SELECT

758	FF000
2716	FE000
2732	FC000
SBC 340	F8000

TABLE 3. PROM SELECT

TYPE	TO	TO	8-9	7-11
758	95	98	C	C
716	96	98	C	O
732	96	99	O	C

(7,8,9, & 10 ARE PIM
NUMBERS OF 51)

REVISIONS						
ZONE	REV	DESCRIPTION	DFT	OMR	DATE	APPROVED
A	P	PROJECT TYPE	2-25-80	SL-30	7/18/80	TC
		WHTI PER FCC 37-554	2-25-80	SL-30	7/18/80	EA

POWER AND GROUND LOCATOR CHART

REF DES	DEVICE TYPE	GROUND	POWER PINS			
			+5v	-5v	+12v	-12v
VRI	79L05	1	-	2	-	3
A30,57	74LS75	12	5	-	-	-
A16	74163	8	16	-	-	-

A56	A25	7	14	-	-	-
A4,49	745175	8	16	-	-	-
A86	745246	10	20	-	-	-
D417191	745373	10	20	-	-	-

A55	74530	7	14	-	-	-
A2,2158	74532	7	14	-	-	-
A14	75183	7	14	-	-	-
A15	75188	7	-	-	14	-

A82	8289	10	20	-	-
AB1.83	8288	10	20	-	-
AC2879d	8287	10	20	-	-

ASSESSMENT	10	20	-	-	-
ASS	3286A	3	8	-	-
ASS	8086	120	40	-	-
NET	34252	9	18	-	-

A27	8251A	4	26	-	-	-
A25	8255A	7	26	-	-	-
A26	8253	12	24	-	-	-
A24	8250A	14	28	-	-	-

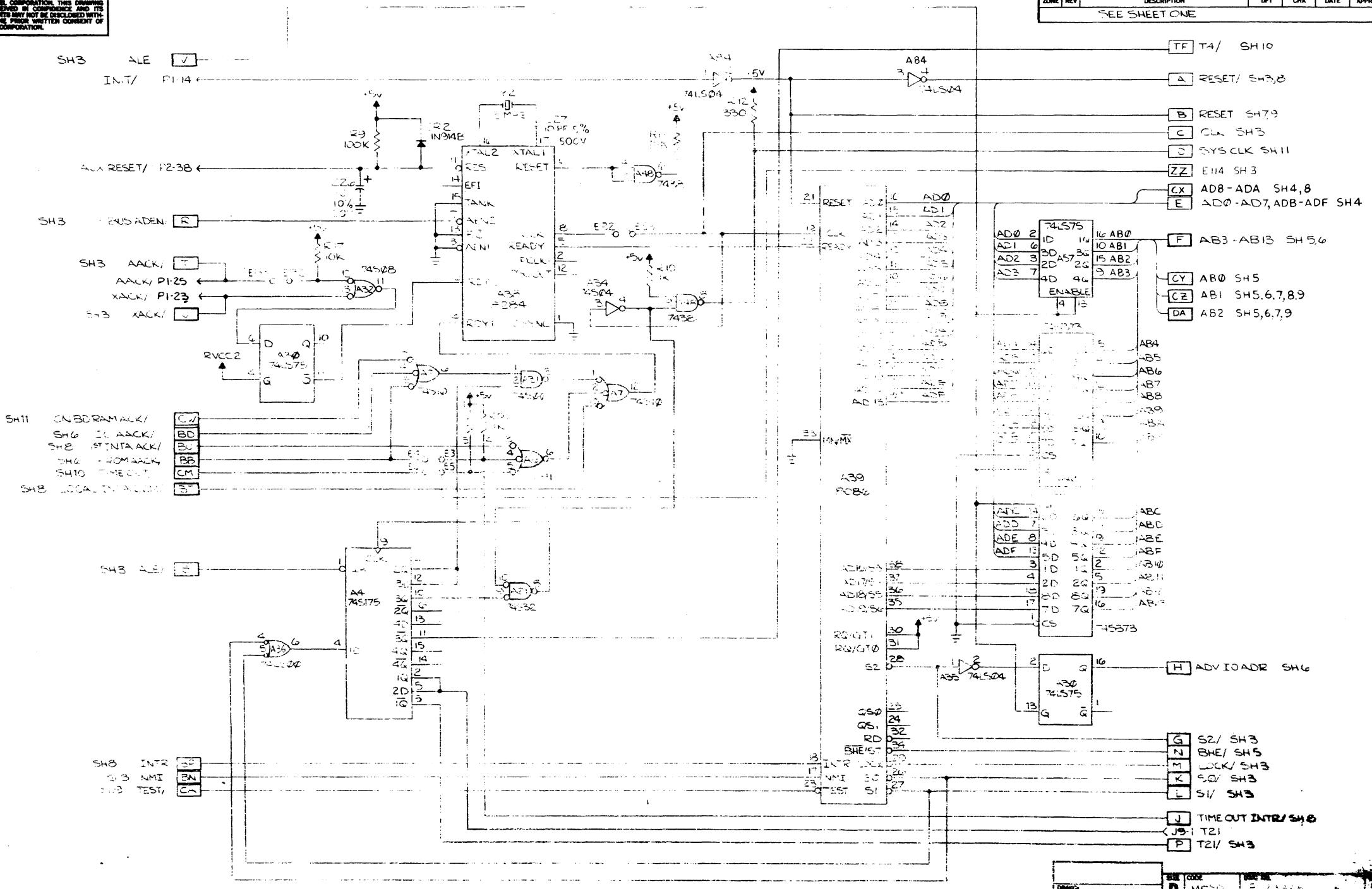
A 780	8224	8	16	-	9	-
AB,9	8226	8	16	-	-	-

ITEM NO.	PART NUMBER	DESCRIPTION
PARTS LIST		
1	3405-114	3065 BOWERS

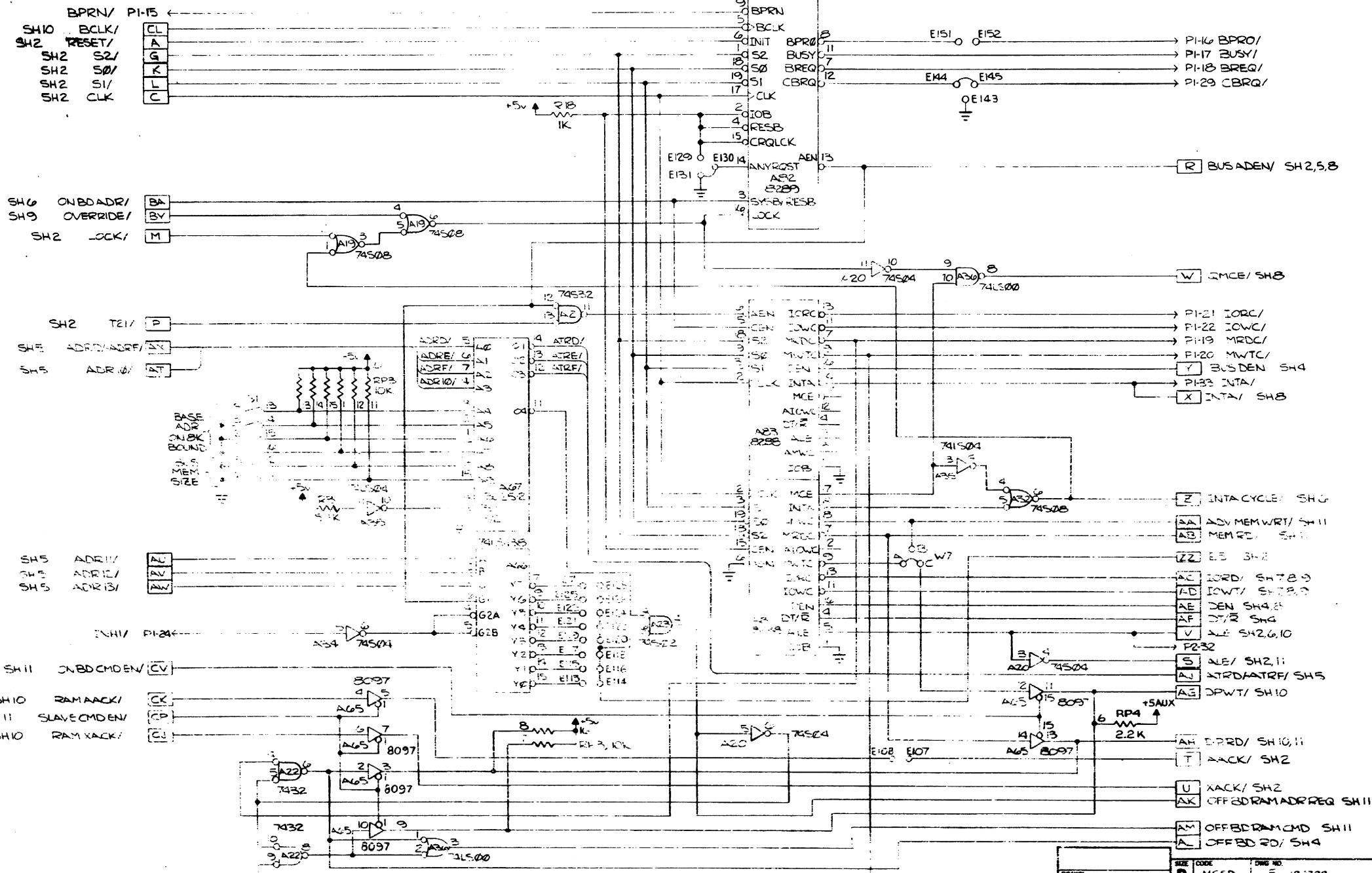
DES.	DRW BY	S	1-642	TITLE	SANTA CLAUS CALIF. 95051
	CHCK BY	Jones	7/18/80		
	ENGR			SCHEMATIC	
	APV'D				

APVD		RPA-86		
APVD				
SIZE	C	PC	PLATE	DOCUMENT NUMBER
D	13	C1	E	12-F328
SCALE	NONE		SHEET	

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ZONE	REV	DESCRIPTION	DFT	CHE	DATE	APPROVED
SEE SHEET ONE						



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DRAW NO. 17-1328

REV A

REV B

REV C

REV D

ZONE	REV	DESCRIPTION	DT	CMK	DATE	APPROVED
SEE SHEET ONE						

SH2 AD0-AD7, ADB-ADF [E]
SH2 AD8-ADA [CX]

11-10-ADF

			11-186
AD0	19	B0	2
AD1	18	B1	1
AD2	7	B2	3
AD3	6	B3	4
AD4	15	B4	3
AD5	14	B5	6
AD6	13	B6	7
AD7	12	B7	8
ADB	19	B8	1
AD9	18	B9	2
ADA	17	B10	3
ADB	16	B11	4
ADC	15	B12	5
ADD	14	B13	6
ADE	13	B14	7
ADF	12	B15	8

		11-186	8286
DM0	19	B0	1
DM1	18	B1	2
DM2	17	B2	3
DM3	16	B3	4
DM4	15	B4	5
DM5	14	B5	6
DM6	13	B6	7
DM7	12	B7	8
DM8	19	B8	1
DM9	18	B9	2
DMA	17	B10	3
ADA	16	B11	4
ADB	15	B12	5
DMC	14	B13	6
ADC	13	B14	7
DMD	12	B15	8
ADD	11	B16	9
ADE	10	B17	10
ADF	9	B18	11

PROM AND I/O DATA BUS [AN] DB0-DB7 SH 6,7,8,9

PROM AND I/O DATA BUS [AP] DB8-DBF SH 6

SH3 DT/E [AF]

SH11 SLAVE MODE/CS
SH3 DEN AE

SH6 PROM IC EN/BC
SHB LOCAL INTA/DEN/BT
SHB BUS INTA/DEN/BR

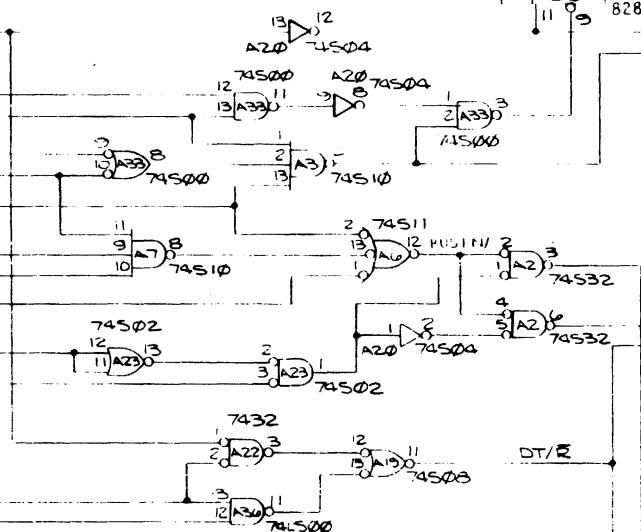
SH6 ONBOARD ADR/BA
SH3 BUS DEN Y

SH11 SLAVE DATA EN/CT

SH5 AM0 CN

SH8 LOCAL INTA/BS

SH11 DP ONBOARD ADR/EN/CR
SH3 OFF BD RD/PT



		11-186	8286
T	CS	11	9
CS	T	8286	11
SWAP EN/			
DT/E			

PROM AND I/O ENABLE/

RAM AND MULTIBUS DATA BUS AR DM0-DMF SH 10,11

		8287
DMF	1	A0 B0 D19
DME	2	A1 B1 D18
DMD	3	A2 B2 D17
DMC	4	A3 B3 D16
DMB	5	A4 B4 D15
DMA	6	A5 B5 D14
DM9	7	A6 B6 D13
DM8	8	A7 B7 D12
DM7	9	CS T D11

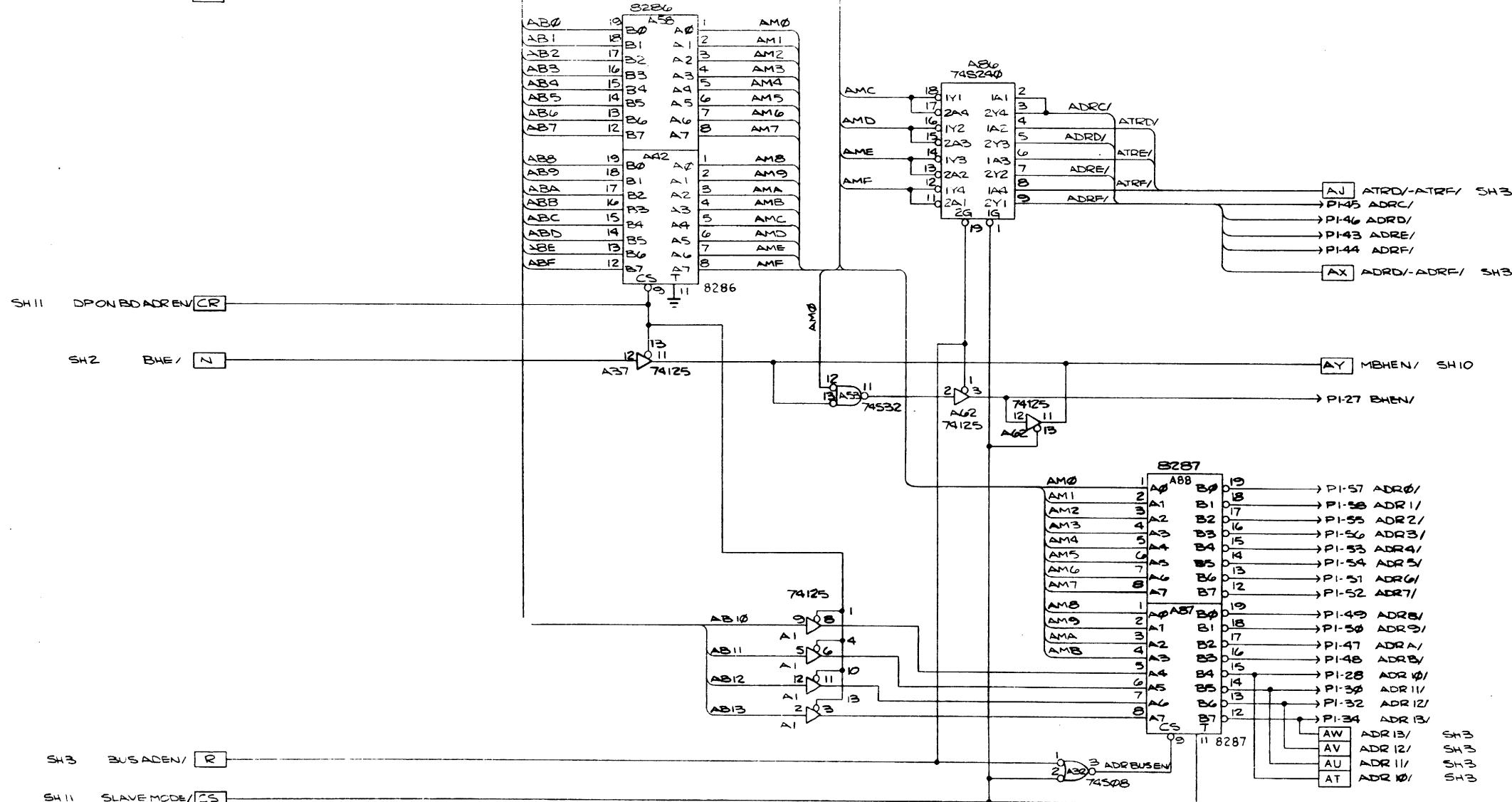
		8287
DM7	1	A0 B0 D19
DM6	2	A1 B1 D18
DM5	3	A2 B2 D17
DM4	4	A3 B3 D16
DM3	5	A4 B4 D15
DM2	6	A5 B5 D14
DM1	7	A6 B6 D13
DM0	8	A7 B7 D12

		8287
DM8	9	A8 B8 D11
DM9	10	A9 B9 D10
DMA	11	A10 B10 D9
DMB	12	A11 B11 D8
DMC	13	A12 B12 D7
DMD	14	A13 B13 D6
DME	15	A14 B14 D5
DMF	16	A15 B15 D4

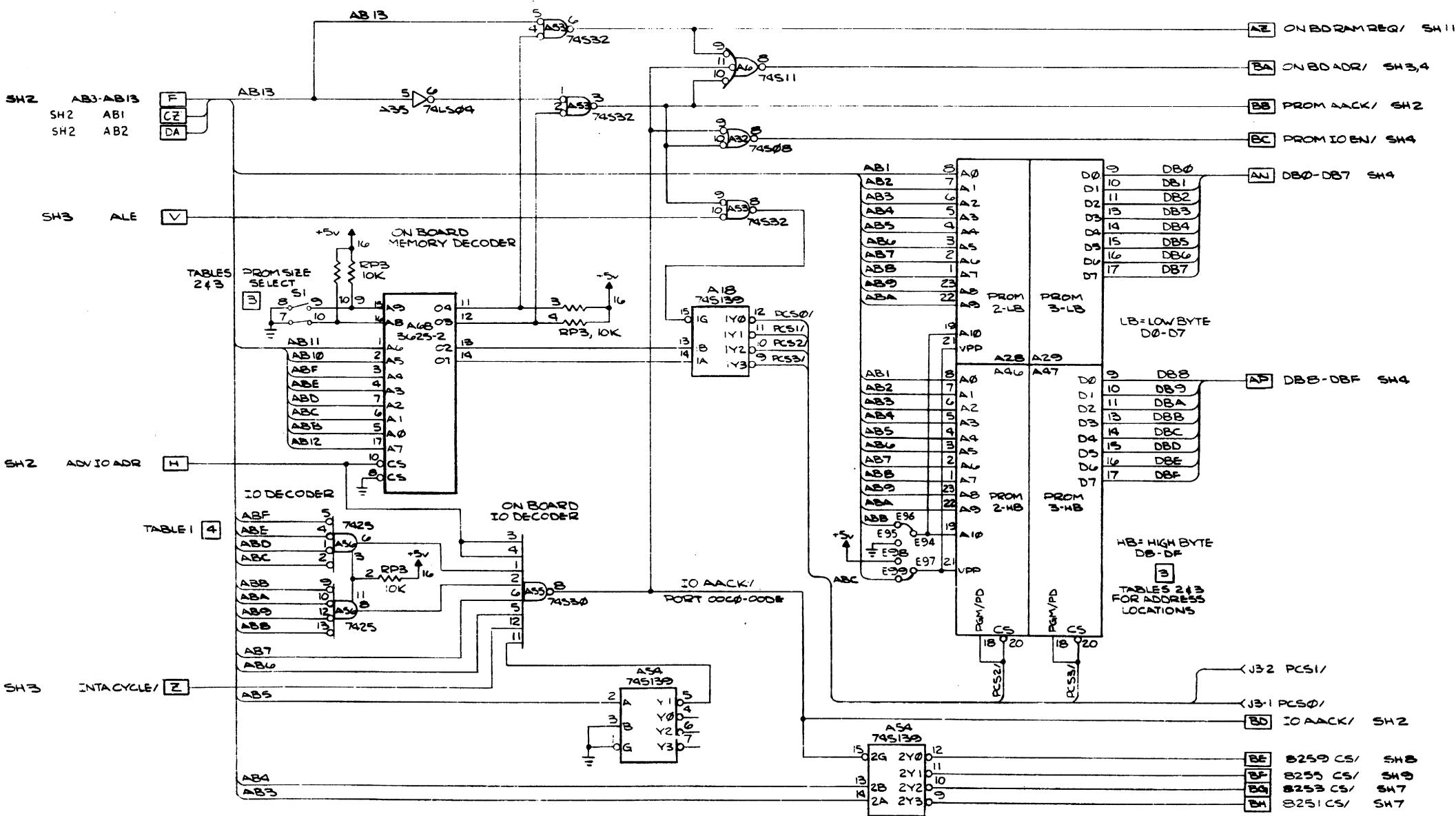
- PI-68 DAT 7/ PI-67 DAT 6/
- PI-70 DAT 5/ PI-69 DAT 4/
- PI-72 DAT 3/ PI-71 DAT 2/
- PI-74 DAT 1/ PI-73 DAT 0/
- PI-65 DAT 8/ PI-66 DAT 7/
- PI-63 DATA/ PI-64 DATA B/
- PI-61 DATA C/ PI-62 DATA D/
- PI-59 DATA E/ PI-60 DATA F/

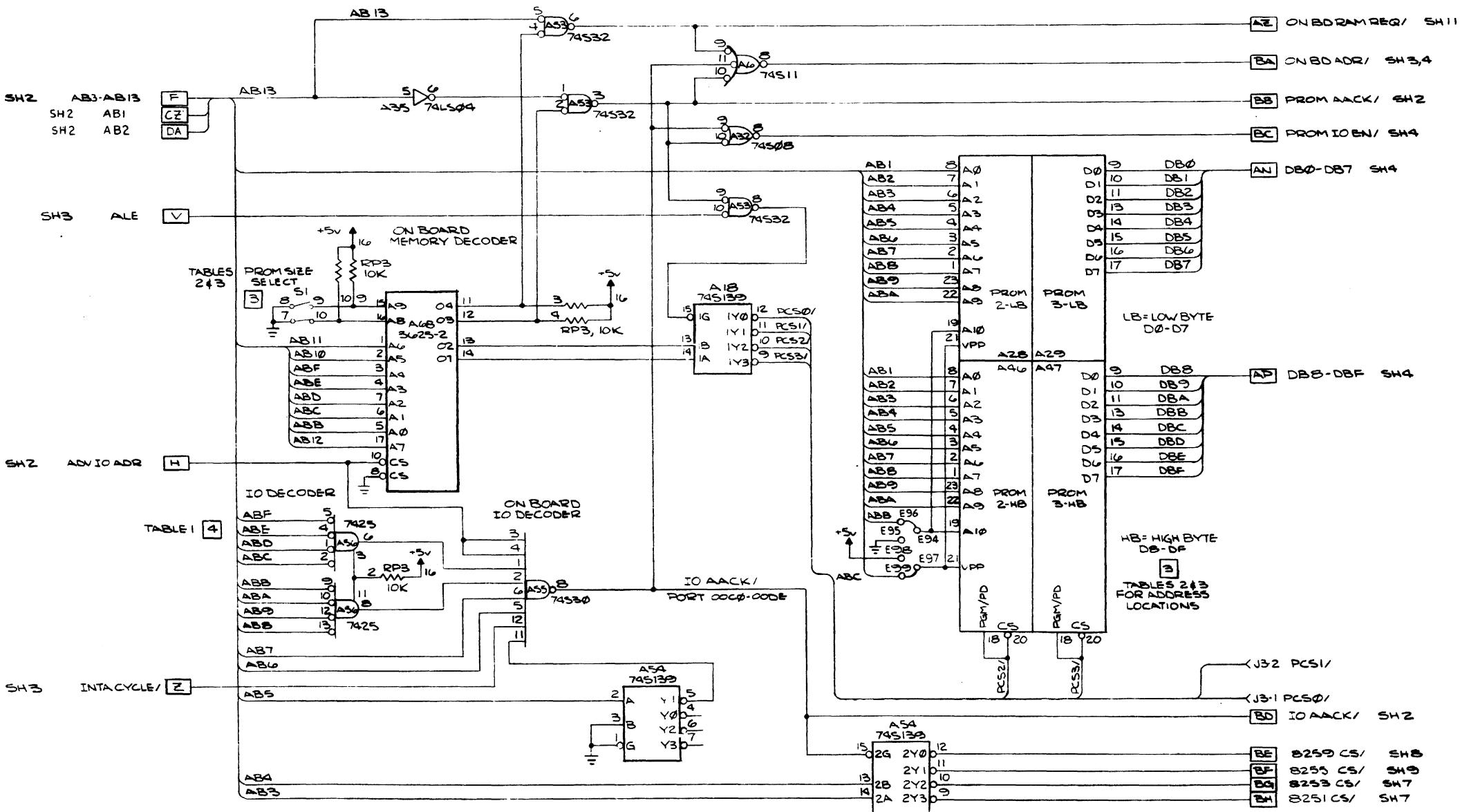
BUS EN/

SH2	AB3 - AB3	F	
SH2	ABØ	CY	
SH2	ABI	CZ	
SH2	AB2	DA	



SEE SHEET ONE

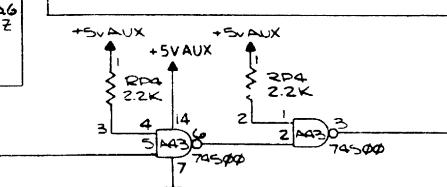
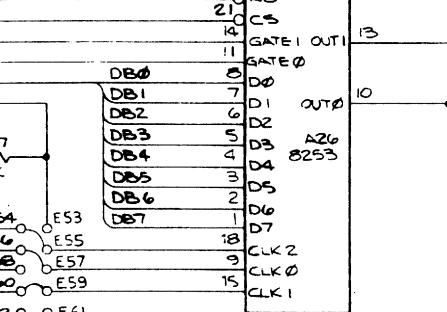
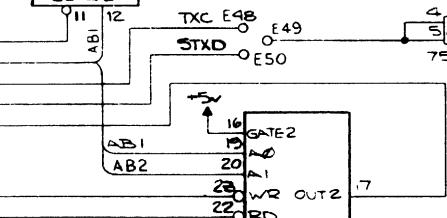
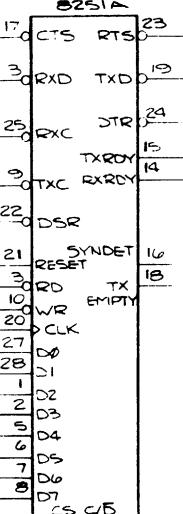




ZONE REV	DESCRIPTION	DFT	CHEK	DATE APPROVED
SEE SHEET ONE				

B251A
PORTING FUNCTION
D0DB DATA
D0DA CONTROL

A27



A27

B2

C2

D2

E2

F2

G2

H2

I2

J2

K2

L2

M2

N2

O2

P2

Q2

R2

S2

T2

U2

V2

W2

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ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
SEE SHEET ONE						

PFI / P2-19

SH7 51TXINTR BJ
SH7 51RXINTR BK

EXT INTR0 / J1-50

INTR7 / P1-36

INTR6 / P1-35

INTR5 / P1-38

INTR4 / P1-37

INTR2 / P1-39

INTR1 / P1-42

INTR0 / P1-41

SH6 8259CSV / BE
SH2 A01 CZ
SH3 IORD / AC
SH3 IOWT / AD
SH4 DB0-DB7 AN

+5V

K11

5.1K

SH3 INTA / X
SH3 BUS ADEN / R

8259A	
PORT NR	FUNCTION
00C0	REG NR1
00C2	REG NR2

A0

A1

A2

A3

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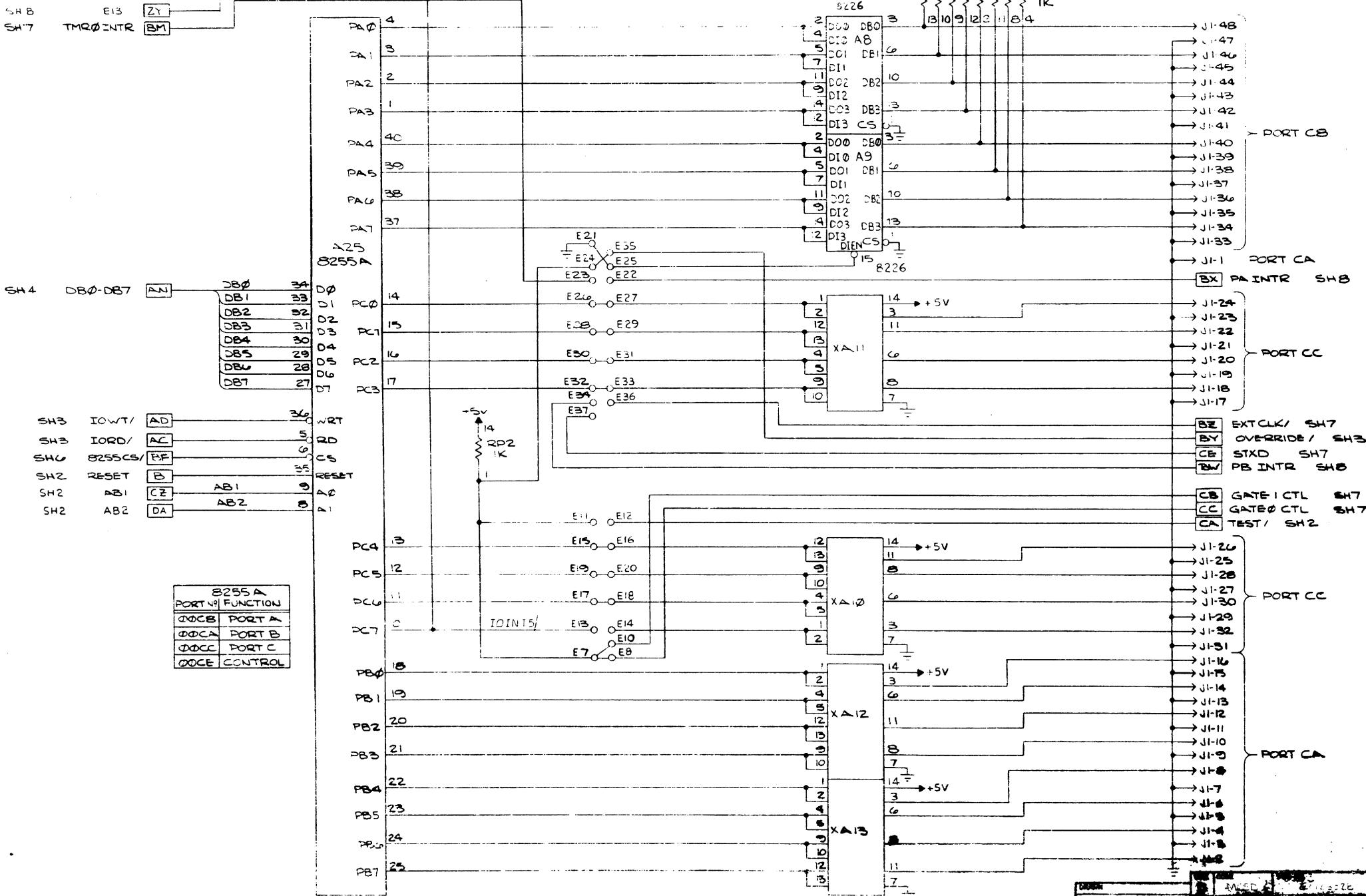
A272

A273

A274

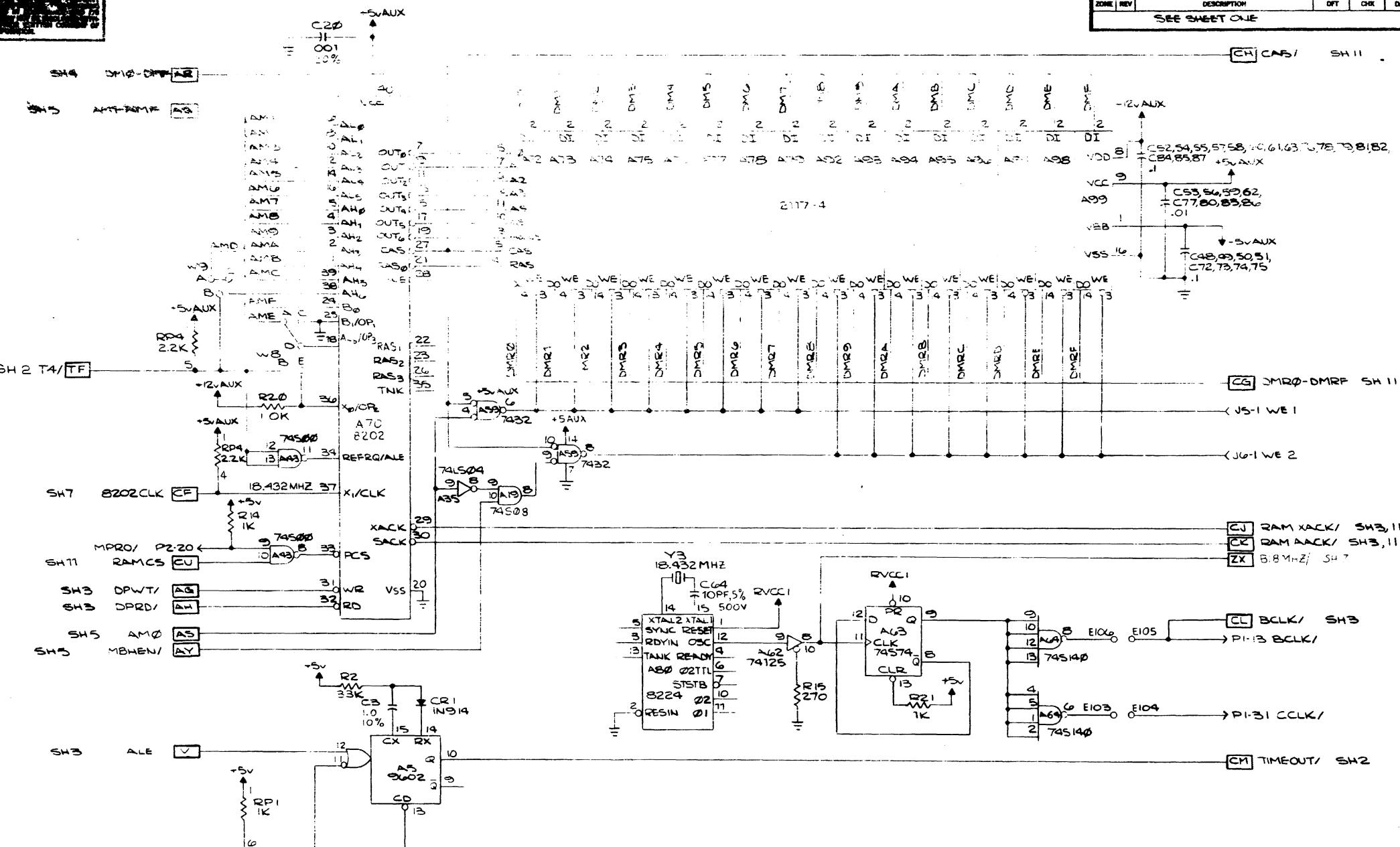
A275

ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
SEE SHEET ONE						



SEE SHEET ONE

SH 11

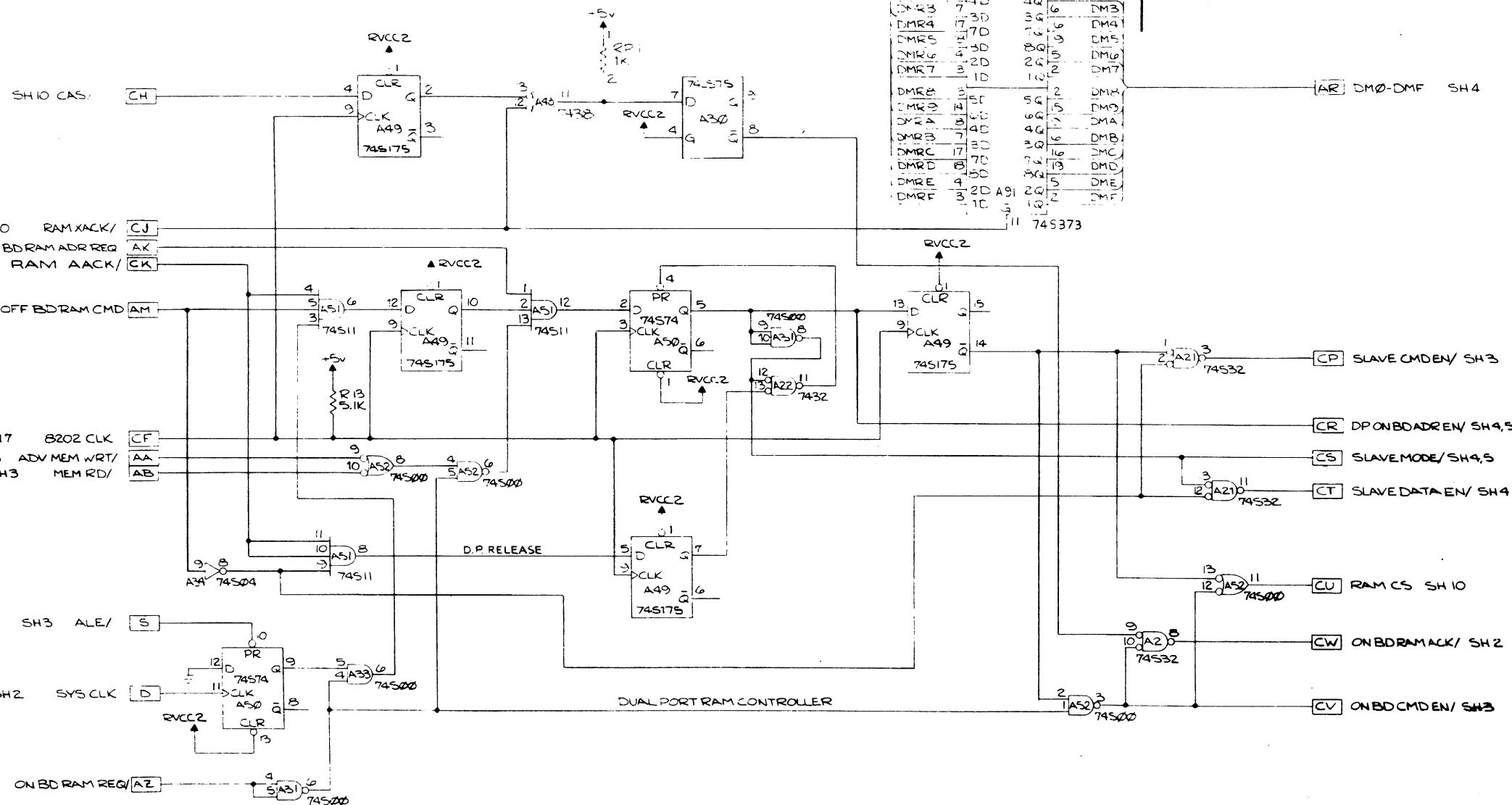


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ST 3 D P R D /

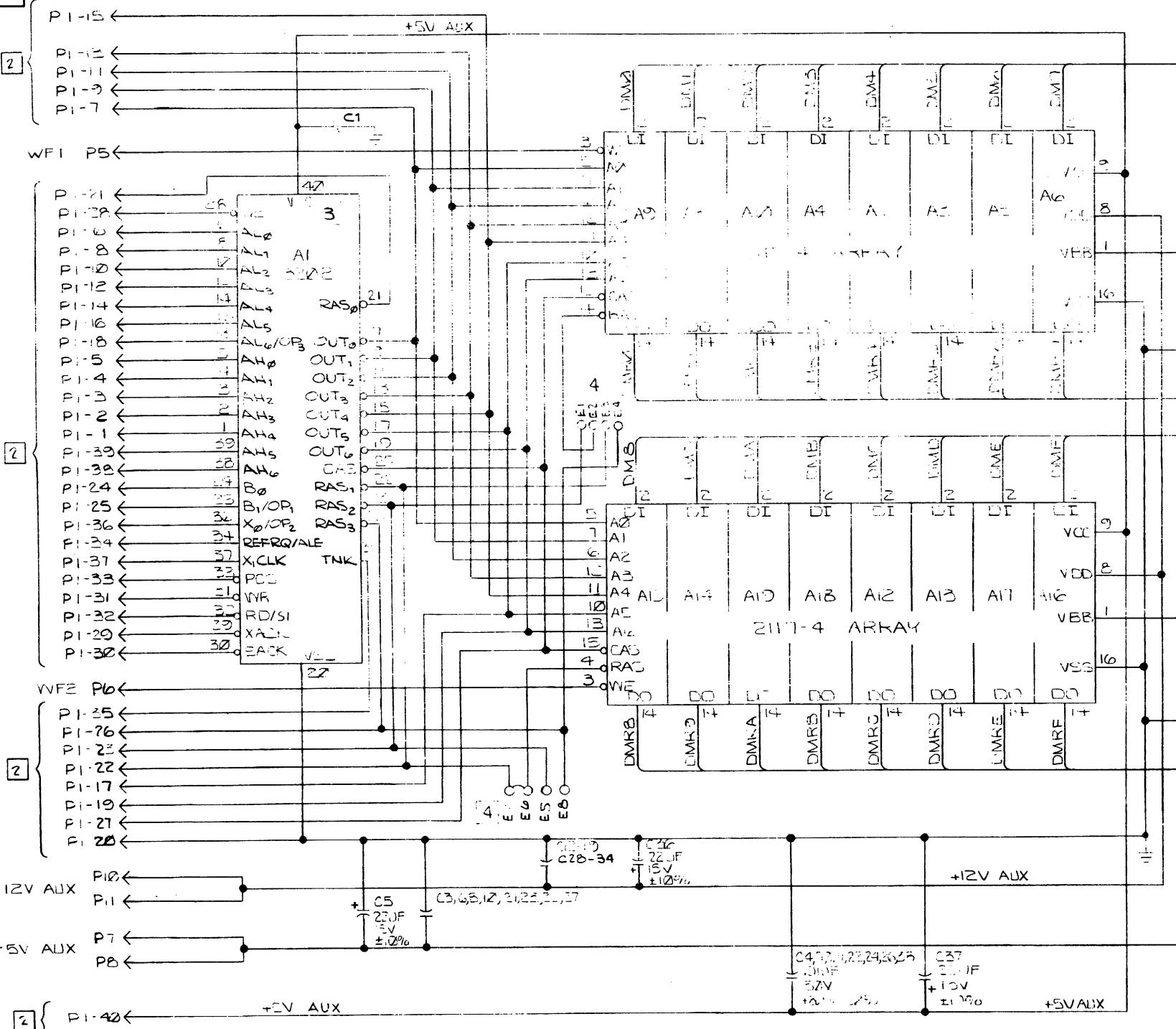
SH 10 DMRZ-DMRF

MRG-EMRF

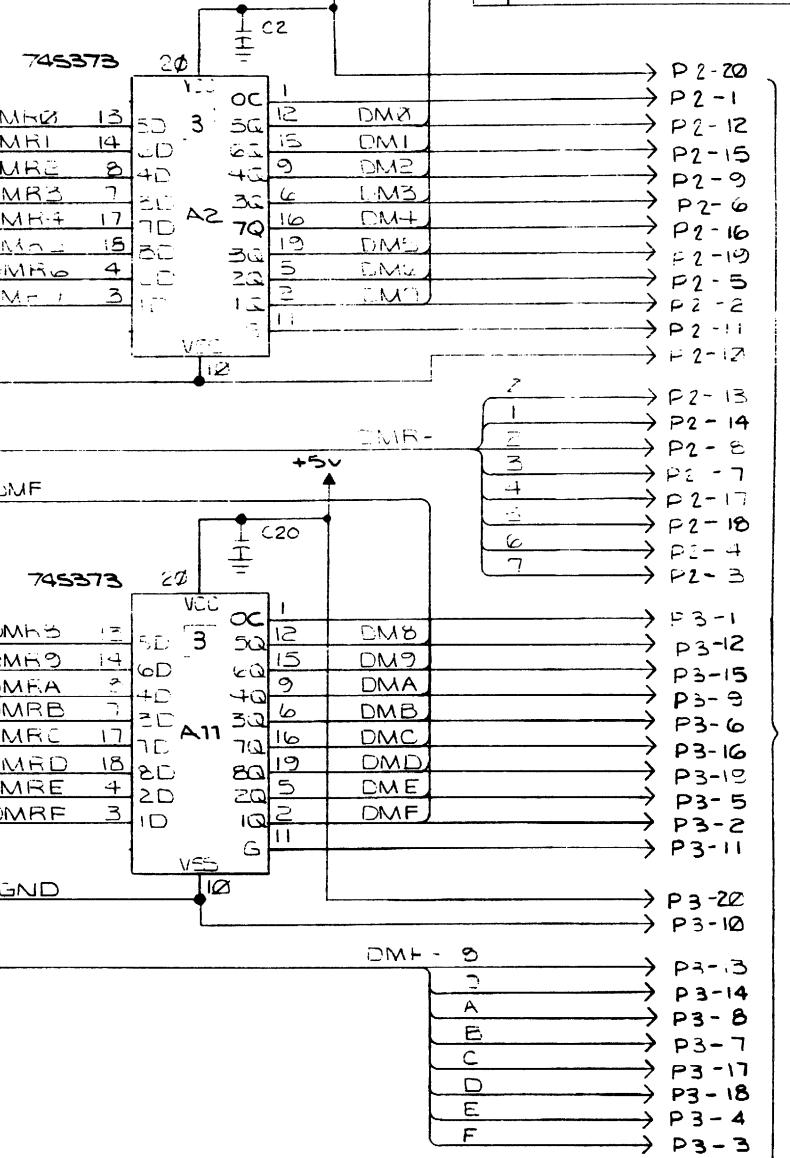


DRAWN	CODE	DATE NO.
ISSUED	MCSD	E 23328

THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO INTEL CORPORATION.
THE INFORMATION CONTAINED HEREIN
MAY NOT BE DISCLOSED WITHOUT
INTEL CORPORATION'S WRITTEN CONSENT.



REVISIONS		
ltr	DESCRIPTION	SIGNATURE AND DATE
1	PROTOTYPE	INTEL 12/2/71
2	ENGR REL	G.S. 1/18/72
A	DRN 4-008	M.D.H. 1/18/72
B	SEE ECO 4-177	M.P.G. 5-7-79



NOTES: UNLESS OTHERWISE SPECIFIED

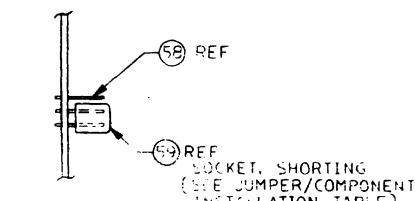
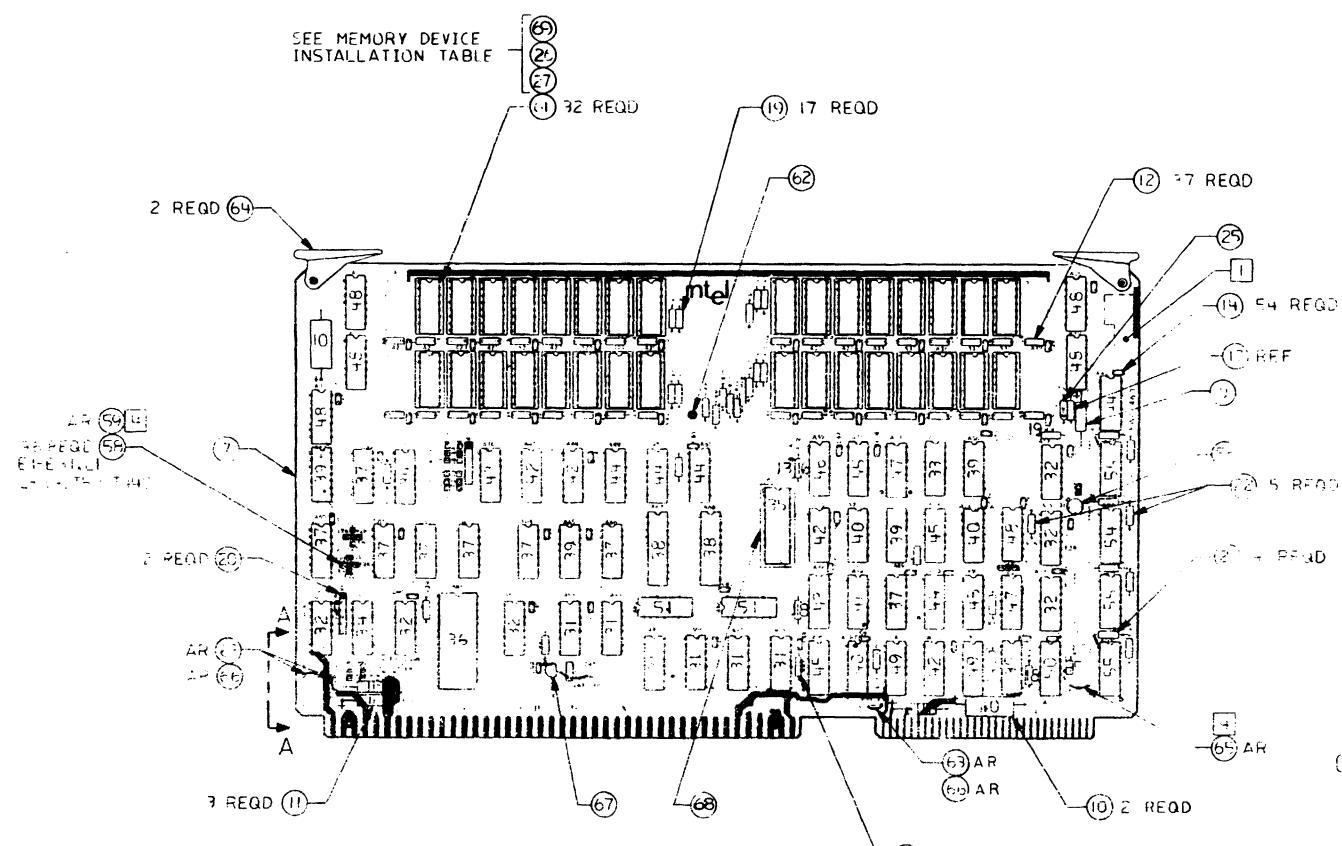
- CAPACITANCE VALUES ARE .1 MICROFARAD, +80%, -20%, 50V.
- THESE (P) CONNECTIONS MATE WITH SOCKET C1, MASTER BOARD.
- IC'S A1, 2, & A11 ARE INSTALLED FROM MASTER BOARD.
- JUMPER-HARDWIRE CONNECTION.

JUMPER TABLE			
END OF ROW	A3 TO A10	A12 TO A19	E3
ITEM 15101	JUMPER #1 TO	JUMPER #2 TO	
E41 1/	E3	E7	54-3
E41 2/	E1	E5	
E41 3/	E4	E8	

QUANTITY PER DASH NO.				ITEM NO.	PART NUMBER	DESCRIPTION
SCALE: NONE						
10L	2 PL.C	3 PL.C	ANGLE	DRN BY	1/18/71	DATE
*				CHK BY	1/18/71	
						TITLE
						INTEL
						3065 BOWERS AVE.
						SANTA CLARA
						CALIF. 95051
						SCHEMATIC
						LSBC 32L 32K RAM MULTI MODULE
						SIZE DEPT. DRAWING NO. REV.
						D 01-1 1 OF 1

D

D



VIEW A-A
SCALE: NONE

MEMORY DEVICE INSTALLATION TABLE

ITEM NO.	DASH NO.	DEVICE DESCRIPTION	REF DES	FUNCTION
69	000	2117	A3-18,A23-38	64K BYTE RAM
69	001	2117	A3-18	32K
26	002	2109L	A23-38	48K
69	003	2117	A3-18	-
27	004	2109L	A23-38	32K
27	005	2109H	A3-18,A23-38	32K
26	006	2109L	A3-18	16K
27	007	2109H	A3-18	16K BYTE RAM

NOTES: UNLESS OTHERWISE SPECIFIED

1. STAMP ASSEMBLY DASH NO., REV LEVEL AND SERIAL NO. APPROX. WHERE SHOWN WITH CONTRASTING INDELEBLE INK.
2. ASSEMBLE PER INTEL SPECIFICATION 99-0007-001.
3. REMOVED.
4. INSTALL JUMPERS PER JUMPER/COMPONENT INSTALLATION TABLE.
5. ASSEMBLY IS 05-0632-XXX. ASSEMBLY DRAWING AND PARTS LIST ARE TRACKING DOCUMENTS.

JUMPER COMPONENT/INSTALLATION TABLE					
	DASH NUMBER	REF DES	FROM	TO	FUNCTION
000 001	002	003	004	005	006
1	1	1	1	1	W1 E1 E9 0-16K
1	1	1	1	1	W2 E2 E12 16-32K
1	1	1	1	1	W3 E3 E14 32-64K
1	1	1	1	1	W4 E4 E16 16-32K
1	1	1	1	1	W4 E4 E15 48-64K
1	1	1	1	1	W5 E5 E21 0-64K
1	1	1	1	1	W6 E6 E17 0-512K
1	1	1	1	1	W7 E7 E18 0-512K
1	1	1	1	1	W8 E8 E29 E31 ADV WRT CYCLE
1	1	1	1	1	W11 T50 L1 ACK
1	1	1	1	1	W9 E32 E41 2117
1	1	1	1	1	W10 E39 E40 2117
1	1	1	1	1	W4 E38 E45 2109 A6 LO
1	1	1	1	1	W10 E39 E44 2109 A6 LO
1	1	1	1	1	W10 E39 E43 2109 A6 HI
1	1	1	1	1	W12 T400 L2 XACK
1	1	1	1	1	W13 T400 L3 RAS T.E.
1	1	1	1	1	W14 T400 L4 BUSY T.E.
1	1	1	1	1	W15 T400 L5 CAS T.E.
1	1	1	1	1	W16 T520 L6 ADV WRT GO

JUMPER WITH
(SOCKET SHORTING)
ITEM 59 ONLY
SEE VIEW A-A

JUMPER WITH
(24 AWG WIRE)
ITEM 63

JUMPER WITH
(30 AWG WIRE)
ITEM 65

JUMPER WITH
(24 AWG WIRE)
ITEM 63

U 2004	1071	1072	1073
H 1071	1072	1073	
G 1033	1034	1035	
F 1080	1081	1082	
O 9112	9113	9114	
05 8956	8957	8958	
04 8534	8535	8536	
C2 8413	8414	8415	
C2 8409	8410	8411	
O1 7833	7834	7835	
UO 7724	7725	7726	
E 1334	1335	1336	
REV 1 O NO REL DATE DASH NO. MODEL NO. USED ON	600	SB-04	NONE
CKO 1/27/84			
APPR 1/27/84 VOL			
APPR 1/27/84 EXP			
NOTE: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES, TOLERANCES X .005 FRACTION .001 ANGLES .001			
REVISIONS	USED ON		
DO NOT SCALE DWS			

DES K10001577	REV A
DHN CHUN 1/27	SIZE 1302 NO. MATHILDA AVENUE
CKO 1/27/84	SUNNYVALE CALIF 94088
APPR 1/27/84 VOL	intell CORP 1302 NO. MATHILDA AVENUE
APPR 1/27/84 EXP	1302 NO. MATHILDA AVENUE
DRAWING NO. 05-0632-000	
SCALE 1:1	REV 000
SHEET OF 1	

8

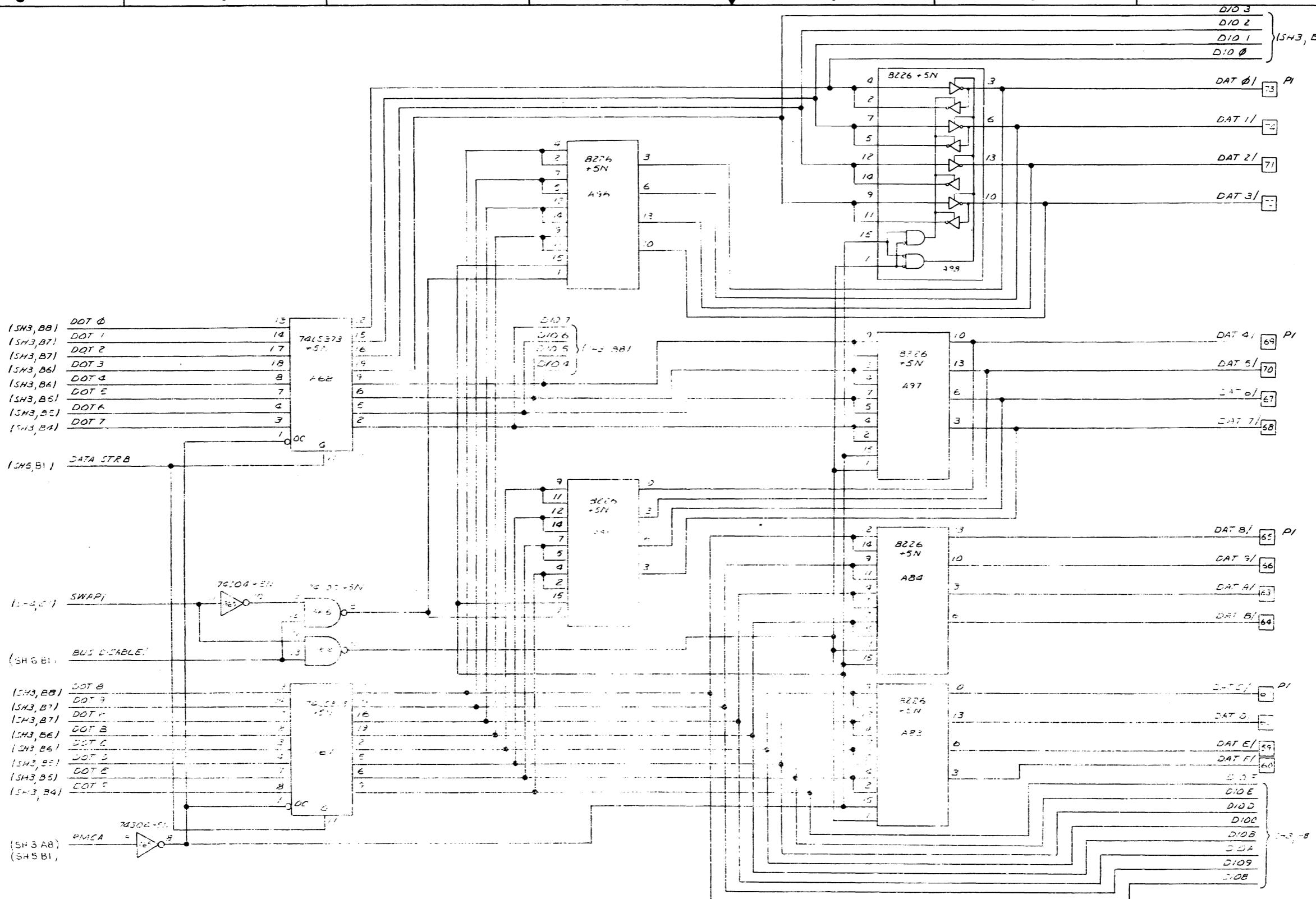
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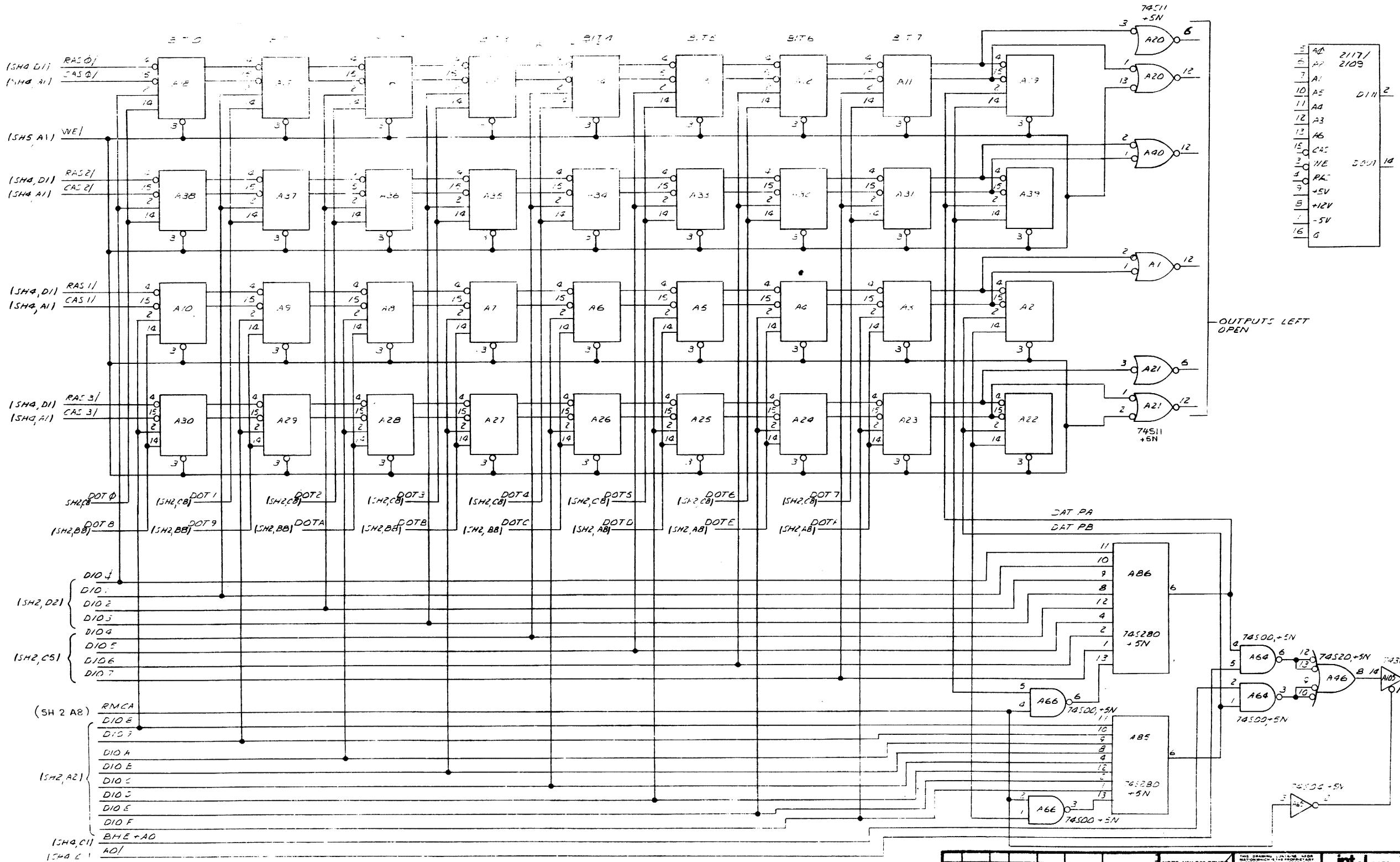
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						NOTE: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		THIS DRAWING CONTAINS INFORMATION WHICH IS THE PROPERTY OF INTEL CORPORATION. THIS DRAWING AND ITS CONTENTS MAY NOT BE COPIED OR DISCLOSED EXCEPT PURSUANT TO A WRITTEN CONSENT OF INTEL CORPORATION.			intel CORP. 1302 NO MATHILDA AVENUE SUNNYVALE CALIF 94086	
						TOLERANCES:		DES: DRN: J. SIEGLAN 2677			SCHEMATIC, L31001-48-04	
						XX :	CKD:					
						XXX :	APPR:			SIZE: D DRAWING NO. I42704		
						FRACTION :	APPR:			REV: A		
						ANGLES :	DO NOT SCALE DWG			SCALE: NONE		
SEE SHEET		REV E.O. NO.	REL DATE	DASH NO.	MODEL NO.	USED ON					SHEET 2 OF	
REVISIONS		USED ON										

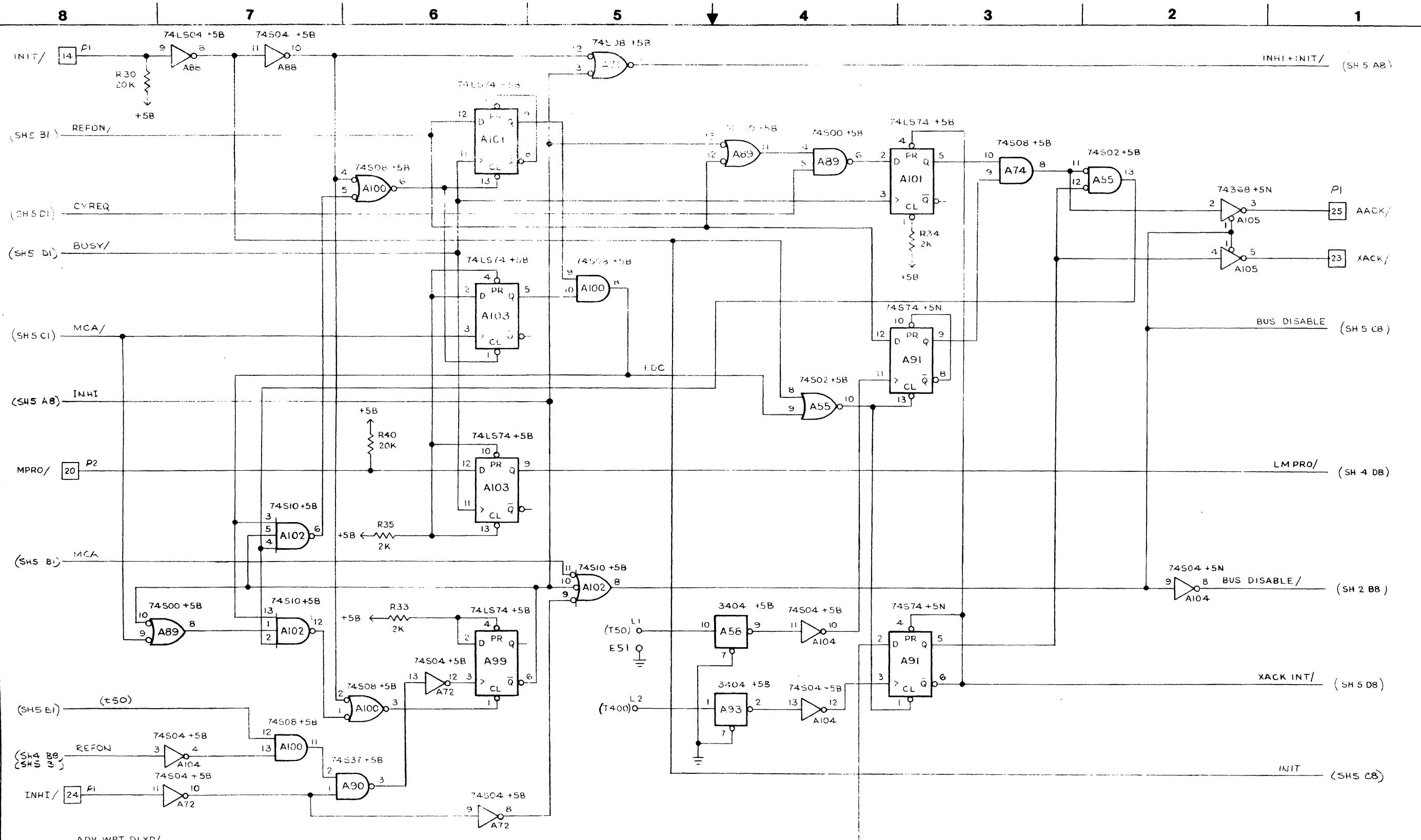
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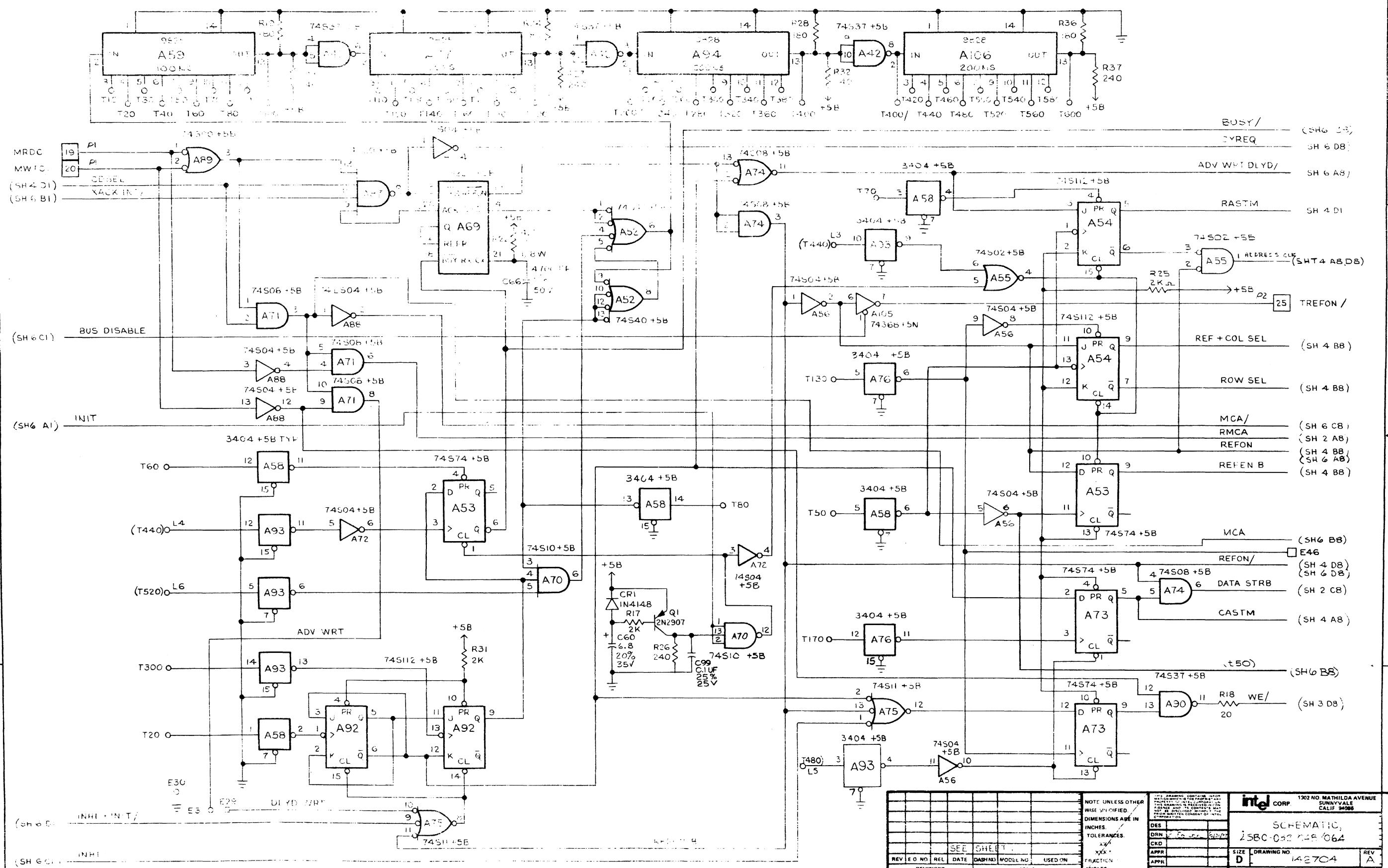


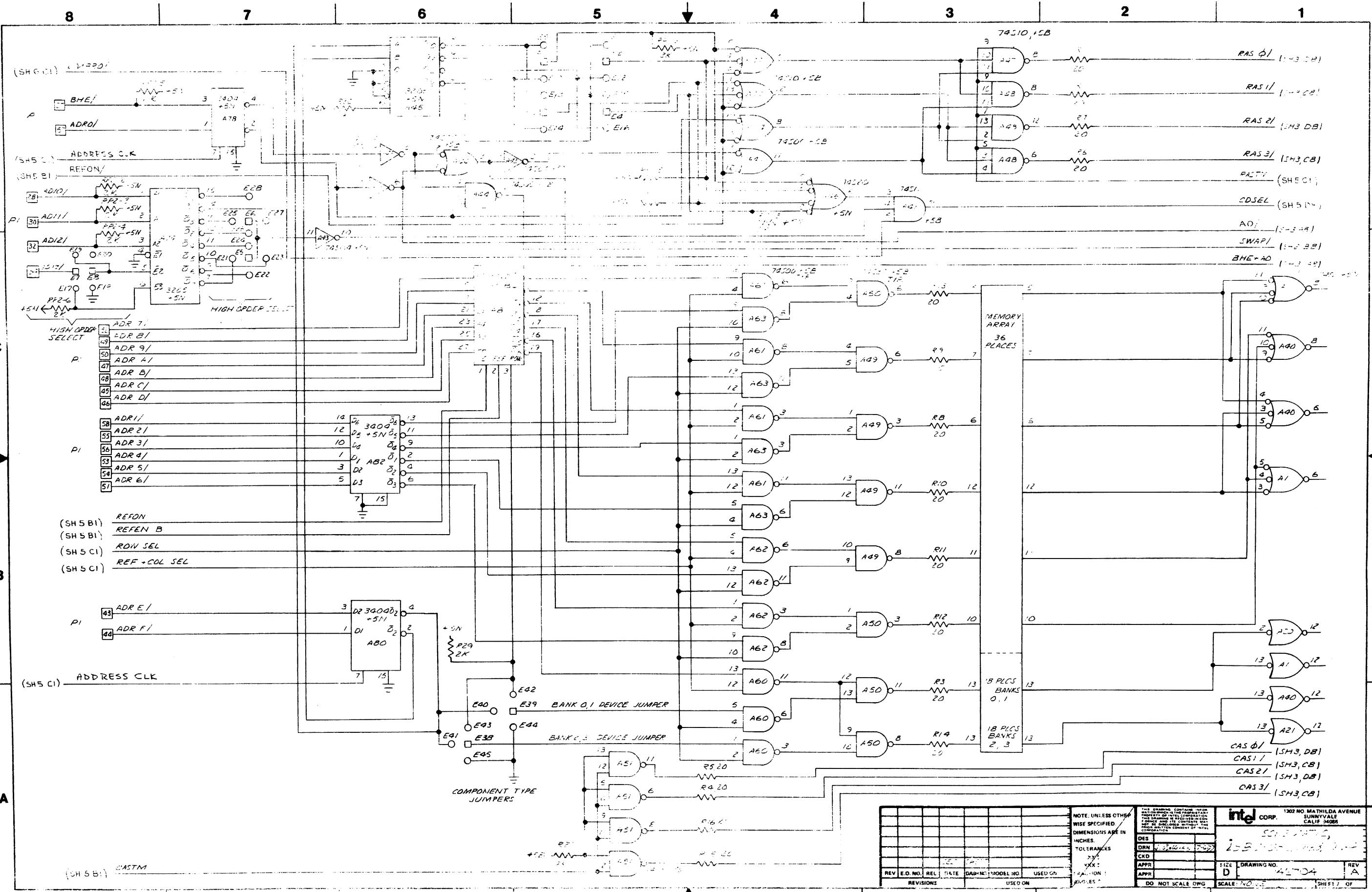
A1	21171
A2	2109
A3	10
A4	11
A5	12
A6	13
A7	14
C41	15
WE	16
PKE	17
+5V	18
+12V	19
-5V	20
GND	21

OUTPUTS LEFT OPEN

NOTE: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.			
TOLERANCES: .XX+.XX-.XX			
REV	E.O. NO.	REL DATE	DASH NO.
REVISIONS	USED ON	MODEL NO.	USED ON
1	2	3	4
5	6	7	8
9	10	11	12
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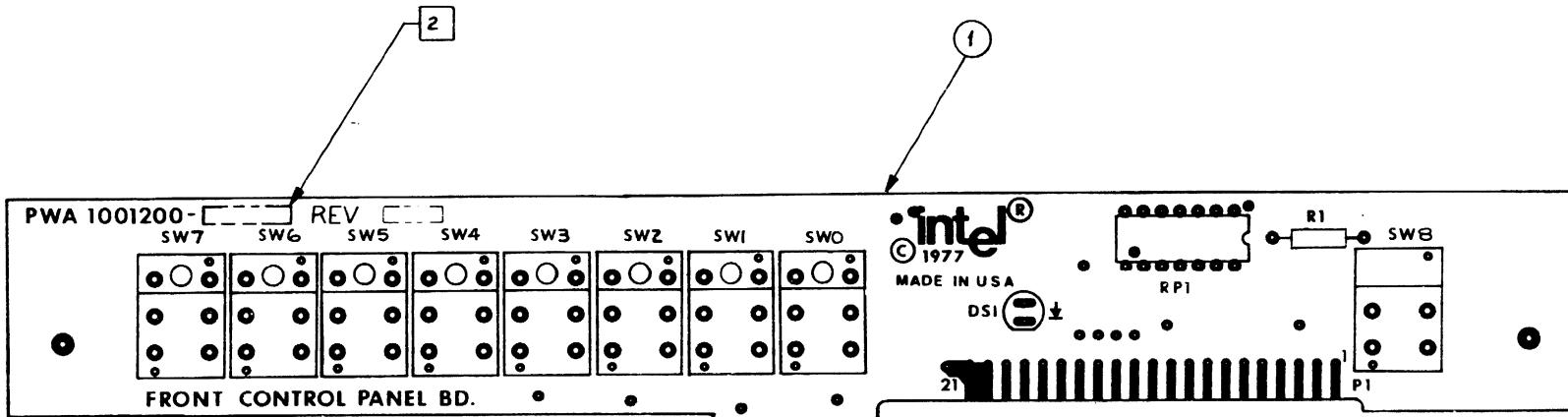






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REVISIONS			SIGNATURE AND DATE		
LTR	DESCRIPTION		DFT	CHK	ENGR
A	PROD REL ECO #1527		W/97	PS	W/97
--	ECO 2-3151		DC	SIS	W/97
B	ECO 2-4132		W/97	PS	W/97



3 WORKMANSHIP PER MCSD QAWS 99-0007-001.

2 MARK ASSY DASH NO. AND REV LEVEL WITH CONTRASTING PERM COLOR, NON-CONDUCTIVE, .12 HIGH, APPROX WHERE SHOWN.

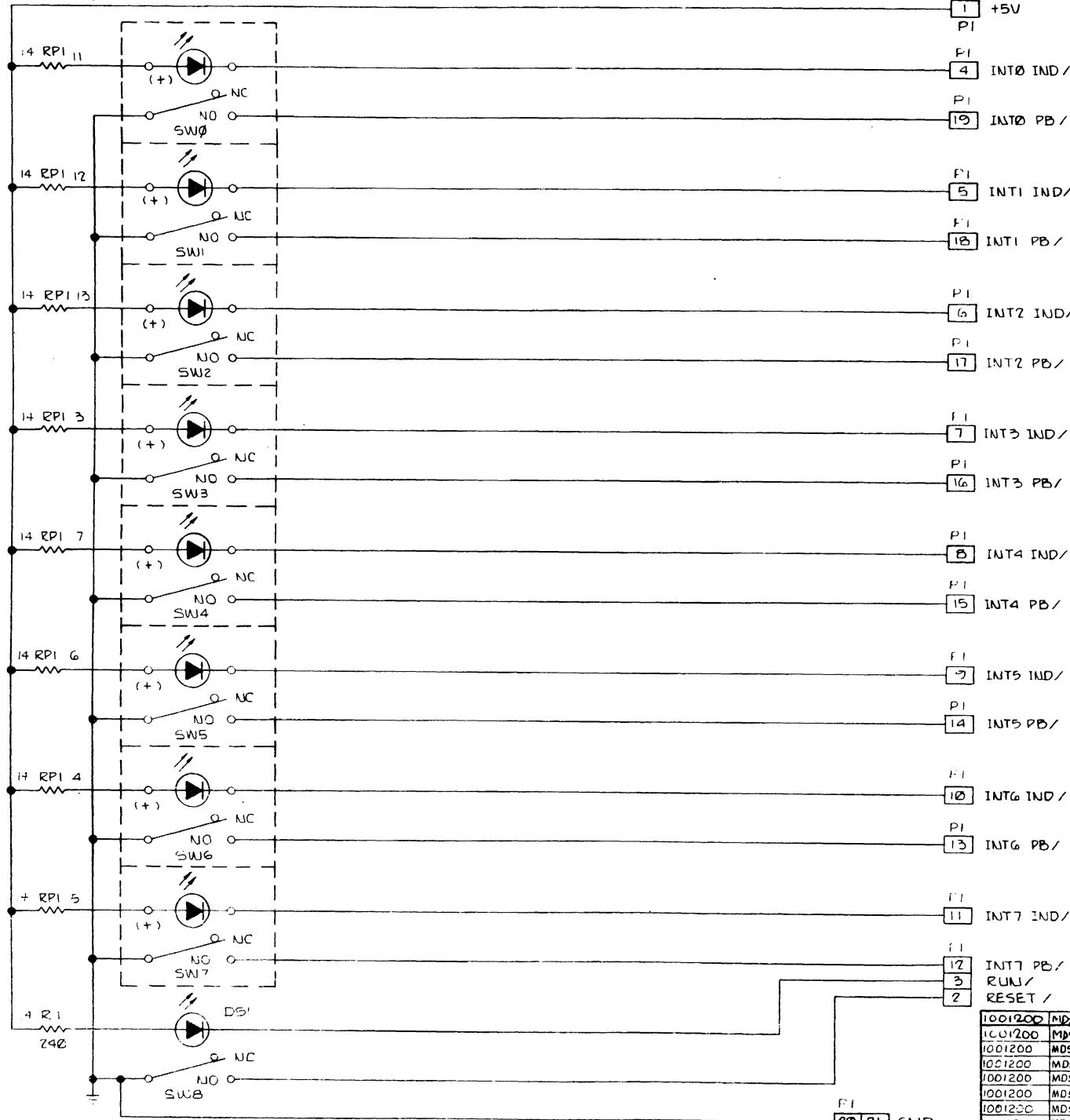
1. ASSY PART NO. IS 1001200-01. ASSY & PL ARE TRACKING DOCUMENTS.

NOTES: UNLESS OTHERWISE SPECIFIED

SEE SEPARATE PARTS LIST

QUANTITY PER DASH NO		ITEM NO.	PART NUMBER	DESCRIPTION
SCALE:	2:1	SIGNATURE	DATE	
TOL:	2 PLC	3 PLC	ANGLE	DRN BY <i>W. Stevens</i> 5/6/78
=				CHK BY <i>R. BOUCHER RB</i> 14-78
MATERIAL				DEF APPD ENGR APPD APPD
FINISH:				<i>E. Walker SP4</i> 4/6/77
NEXT ASSY		USED ON	AUTH BY <i>J. Braga</i> 1/2/78	CODE: SHEET 1 OF 1
				SIZE DEPT DRAWING NO. REV
			C MCD P1001200	B

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REVISIONS

LTR	DESCRIPTION	SIGNATURE AND DATE
DFP	CHK	ENGR
A	PROD REL ECO #1527-3	JW RB 06/27 JW/7/77 DCP
-	ECO 2-3151	JL SS 06/27

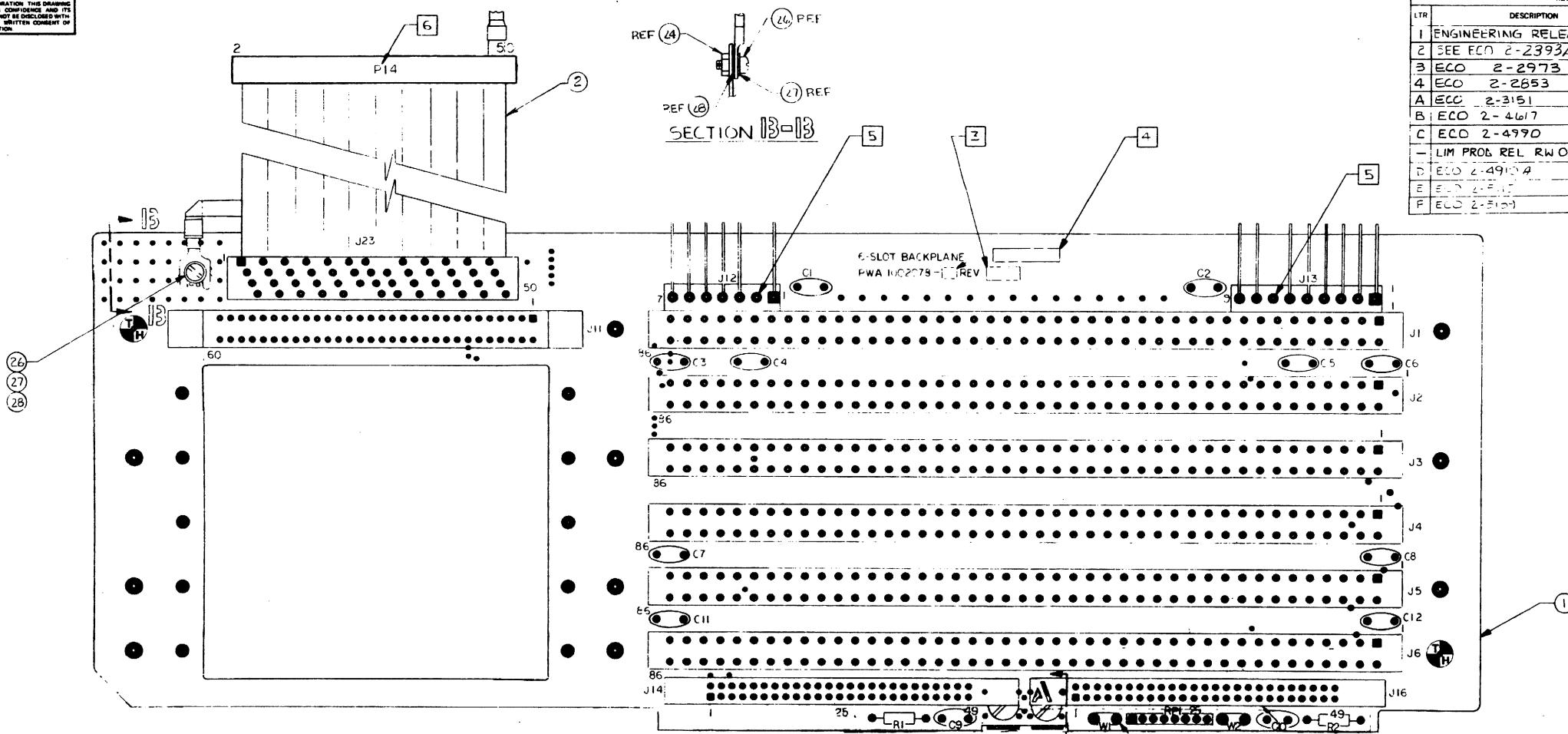
RPI	PI	
R1		
DS1		
SW9		
LAST USED	NOT USED	
REF DESIGNATIONS		

NOTES: UNLESS OTHERWISE SPECIFIED.

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, ±5%.
2. RESISTOR PAK VALUES ARE IN OHMS, 1K, ±5%, 1.5W PER PAK.
3. RESISTOR NETWORKS (DIP) ARE 14 PIN - PIN 14 IS +5V.

ITEM NO.	PART NUMBER	DESCRIPTION		
		PARTS LIST		
QUANTITY PER DASH NO				
1001200	MDS-222	SCALE: NONE	SIGNATURE	DATE
1001200	MDS-222	TOL. 2 PLC	DRN BY <i>JW</i> <i>7/77</i>	
1001200	MDS-221	3 PLC		
1001200	MDS-221	ANGLE		
1001200	MDS-221	*		
1001200	MDS-220	CHK BY <i>JW</i> <i>7/77</i>		
1001200	MDS-220	GFT APPRO		
1001200	MDS-220	ENGR APPRO (PV <i>7/77</i>)		
1001200	MDS-219	FINISH		
1001200	MDS-219	AUTH BY <i>JW</i> <i>7/77</i>		
1001200	MDS-219	CODE: SHEET 1 OF 1		
1001200	MDS-219	NEXT ASSY USED ON		
1001200	MDS-219	SIZE DEPT DRAWING NO.		
1001200	MDS-219	D MCD P2001202 A		

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8 MAX. COMPONENT HEIGHT.

7 DIMENSIONS ARE IN INCHES.

6 MARK P14 WITH CONTRASTING PERM COLOR .12 HIGH APPROX.
WHERE SHOWN.

5 REMOVE PIN 2 ON J12, (KEY), AND PIN 7 ON J13, (KEY).

4 MARK ASSY VENDOR ID WITH CONTRASTING PERM COLOR,
NON-CONDUCTIVE, .12 INCH HIGH, APPROX WHERE SHOWN.

3 MARK ASSY DASH NO & REV LEVEL WITH CONTRASTING PERM COLOR,
NON-CONDUCTIVE, .12 HIGH, APPROX WHERE SHOWN.

2. WORKMANSHIP PER MCSD QAWS 99-0007-001.

1. ASSY PART NO. IS 1002078-03. ASSY AND PL ARE TRACKING
DOCUMENTS.

NOTES: UNLESS OTHERWISE SPECIFIED:

SEE SEPARATE PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION
QUANTITY PER DASH NO.		
4002527	MDS-222	SCALE: 2:1
4002525	MDS-252	SIGNATURE <i>A. Sharpe</i> DATE <i>9/4/93</i>
4001759	MDS-232	DRW BY <i>A. Sharpe</i> CHK BY <i>Faller</i>
4001616	MDS-230/231	REV <i>1</i> TITLE <i>PRINTED WIRING ASSEMBLY</i>
4001730	MDS-222	MATERIAL: <i>PCB</i>
4001486	MDS-220/221	DFT APPD: <i>None</i>
4002146	MDS-230/231	ENGR APPD: <i>None</i>
4002143	MDS-220/221	FINISH: <i>None</i>
NEXT ASSY	USED ON	AUTH BY: <i>None</i>
CODE: <i>D</i>	SHEET 1 OF 2	REV: <i>F</i>

8

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DWG NO. L1002078

SH 2 REV F

REVISIONS

ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
		SEE SHEET "1"				

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D

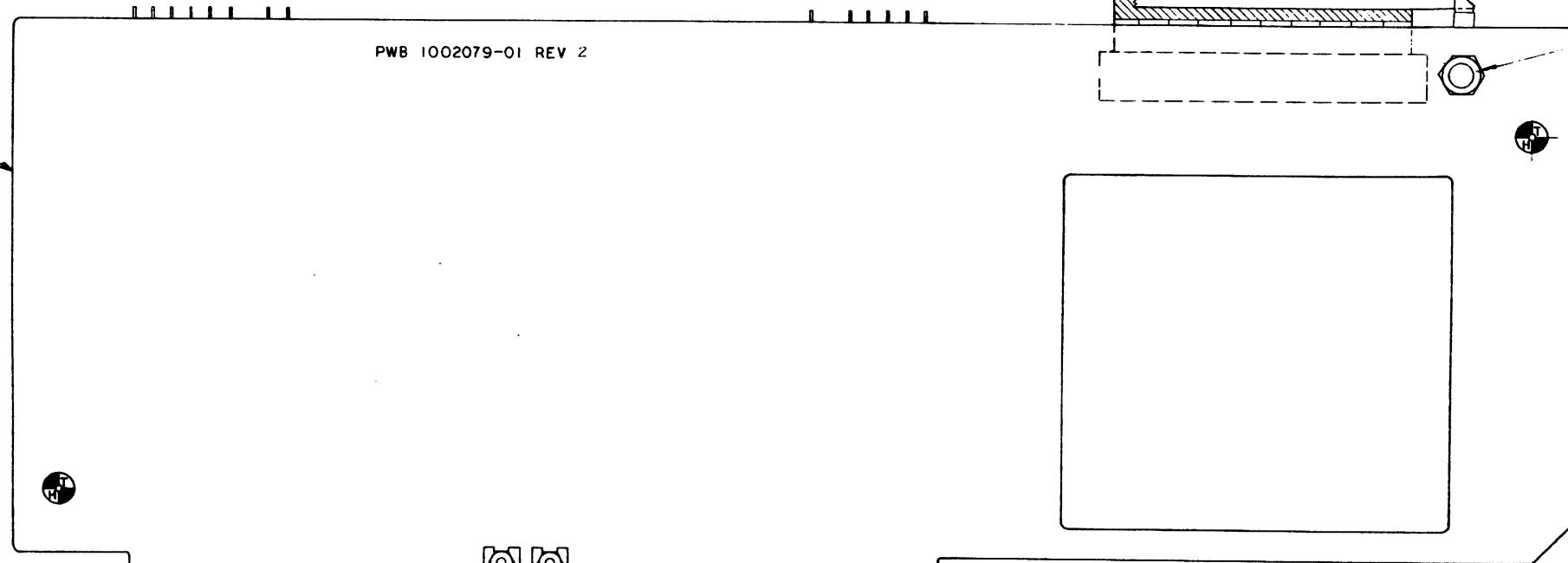
D

C

C

(I) REF

PWB 1002079-01 REV 2



(22) REF

SOLDER SIDE

9300022

8

7

6

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2

1

DRAWN BY	CODE	DWG. NO.	REV
REVIS	D MCSD	L1002075	F

DRAWN

REVIS

D

MCSD

L1002075

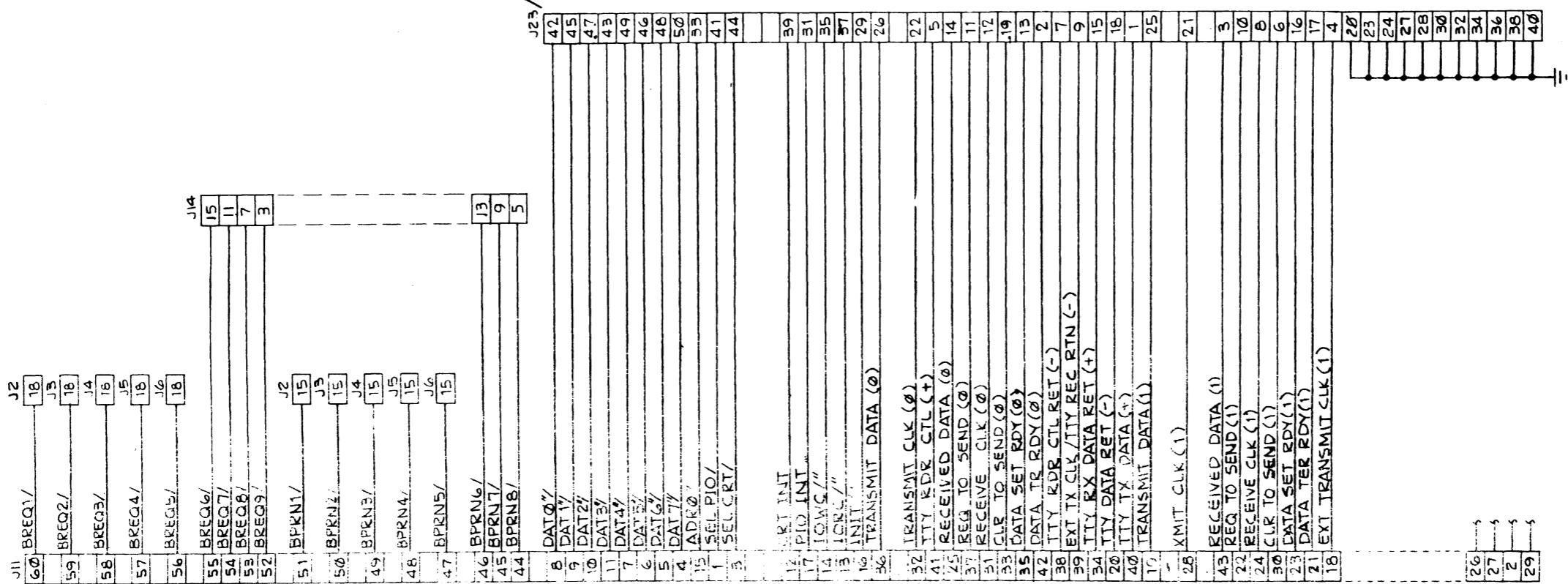
F

SCALE 2:1

SHEET 2

1

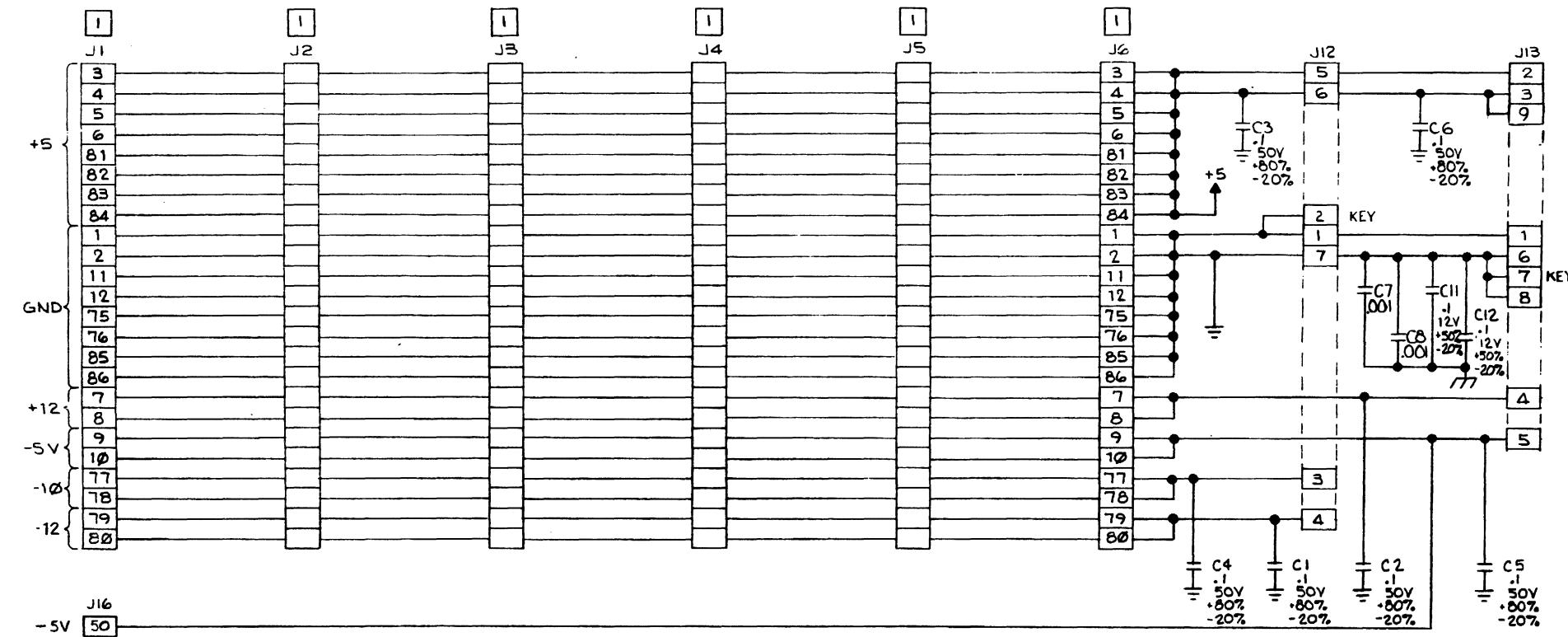
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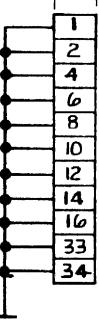
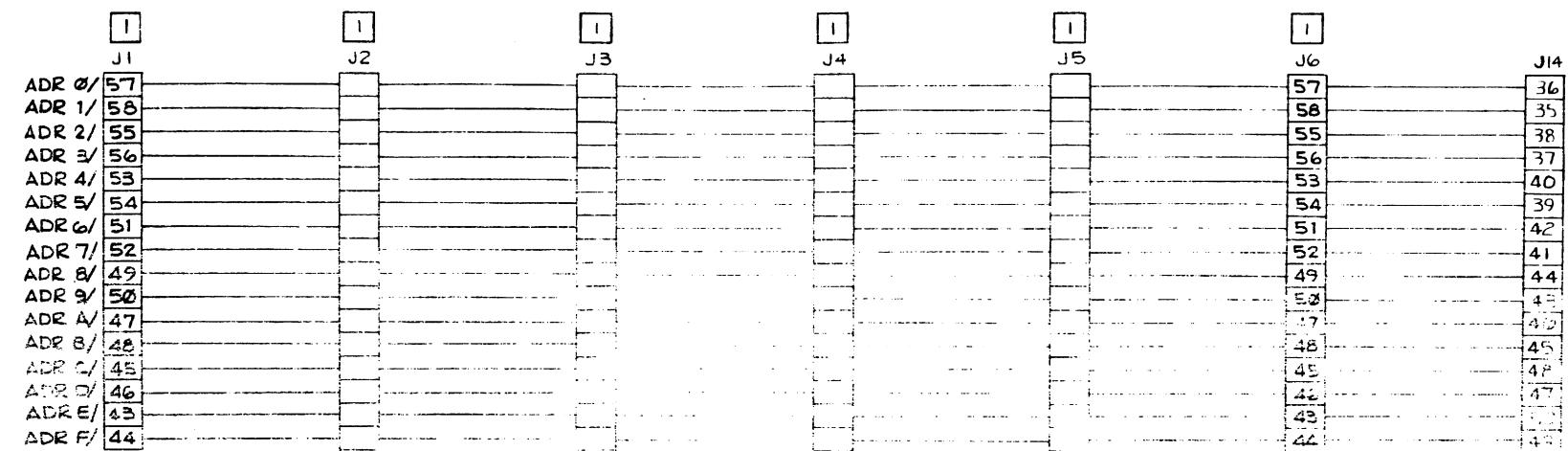
REVISIONS

LTR	DESCRIPTION	OFT	CHK	ENGR
-	SEE SHEET 1			



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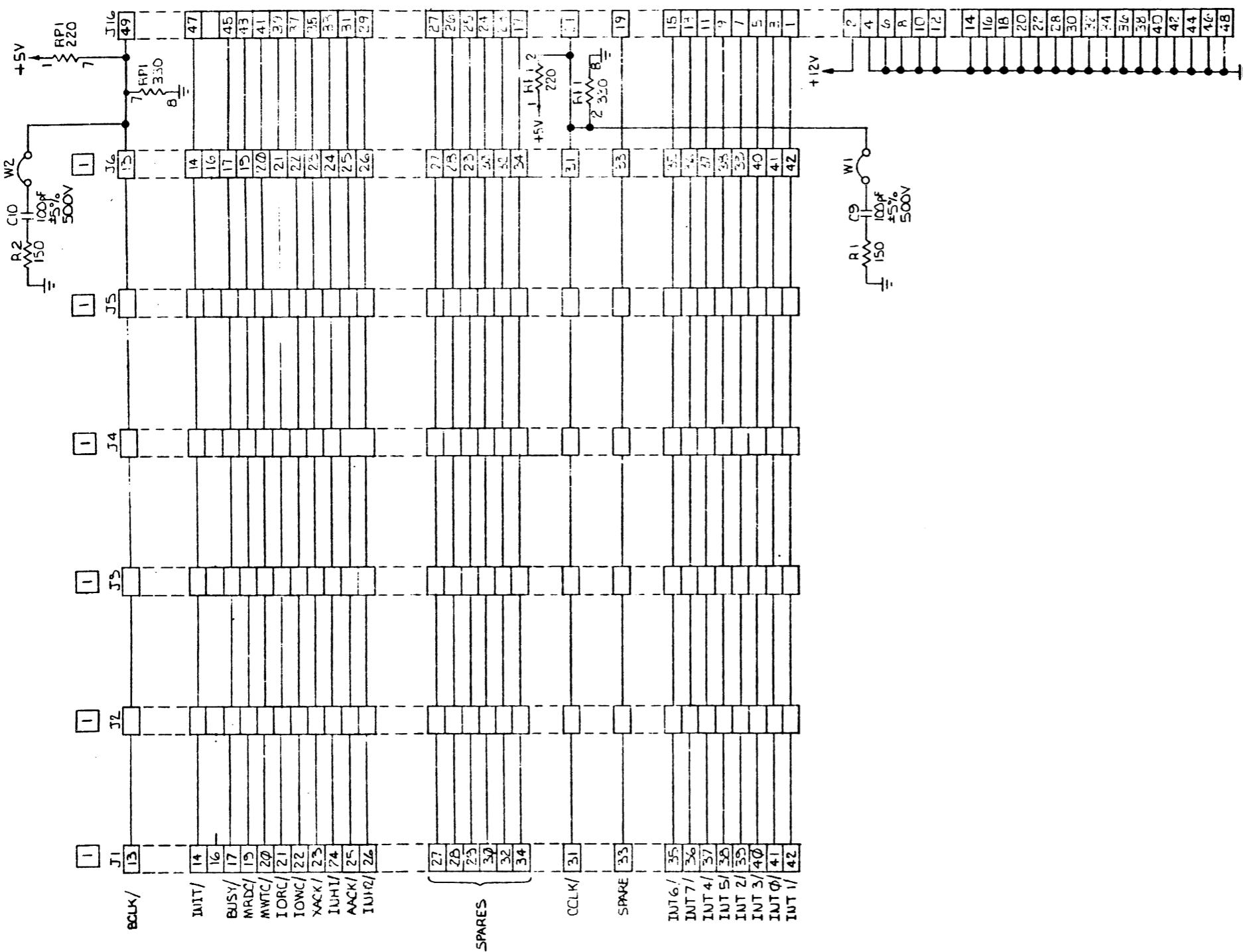
REVISIONS				
LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1			



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REVISONS

ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
	-	SEE SHEET 1				



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20 FINISH: BLACK ZINC CHROMATE PER QC-Z-325
TYPE 2, CLASS II

19. MAT'L: .050 CRS 1/2 HARD

18. WORKMANSHIP PER MCSD QAWS 99-0007-001.

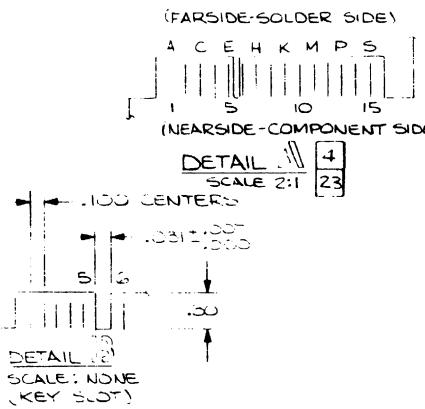
17 ADDITIONAL MOUNTING SLOTS ARE PERMISSIBLE

15. CHASSIS GND CONSISTS OF KB KEYBOARD MOUNTING PLATE AND PAD ON KB-PCB TO WHICH DIPLED CAPACITOR VALUES OF 470PF AND 0.1 μ F BYPASS SIGNAL GND ON PCB TO CHASSIS GND. SOLID CONNECTIONS MUST EXIST BETWEEN MOUNTING PLATE & CHASSIS GND PAD ON KB-PCB.
14. SIGNAL GND PLANE CONSISTS OF KB-PCB AND MUST COVER MINIMUM 85% OF BOARD
13. SCREW TERMINAL ON KEYBOARD MOUNTING PLATE TO WHICH KEYBOARD CABLE SHIELD IS ATTACHED. THIS TERMINAL MUST BE ADJACNT TO KEYBOARD CABLE CONNECTOR J1 ; SEE NOTE 16.
12. KEYCAPS TO BE BLACK, COLOR NO. 17, WITH LEGENDS WHITE, COLOR NO 1-2. CAPS TO BE MATTE OR SEMI-MATTE FINISH ON TOP SURFACE. GLOSSY FINISH ON ALL SIDES.
11. KEYCAPS TO BE NAVY BLUE, COLOR NO. 1-24, WITH LEGENDS WHITE COLOR NO. 1-11. CAPS TO BE MATTE OR SEMI-MATTE FINISH ON TOP SURFACE. GLOSSY FINISH ON ALL SIDES.
10. CURVED SIDE OF SPACE BAR TO FACE OUTSIDE AS SHOWN, AND MATE WITH 79.0 INCH RADIUS ON COVER PLATE. BAR TO BE OFF-WHITE, COLOR NO. 1-11, MATTE OR SEMI-MATTE FINISH ON TOP SURFACE. GLOSSY FINISH ON ALL SIDES.
9. KEYCAPS TO BE OFF-WHITE , COLOR NO. 1-11, WITH LEGENDS BLACK , COLOR NO 1-9. CAPS TO BE MATTE OR SEMI-MATTE FINISH ON TOP SURFACE. GLOSSY FINISH ON ALL SIDES.
8. CRYSTAL TO BE PACKAGED IN CASE SIZE HC18 OR HC25. CRYSTAL CASE TO SECURED TO PC BOARD AND GROUNDED. CRYSTAL IS SERIES RESONANT FUNDAMENTAL MODE.

7. INDIVIDUAL BYPASS CAPACITOR OF MINIMUM VALUE .01 UF REQUIRED FOR 8041 AND ANY OTHER DIGITAL IC'S OF 24 PINS OR GREATER. MINIMUM OF ONE BYPASS CAPACITOR (.01UF MINIMUM) FOR EACH TWO DIGITAL IC'S (14 OR 16 PIN).

8. DESIGN WILL UTILIZE INTEL 8041 MICROPROCESSOR.
PC BOARD WILL CONTAIN 40 PIN SOCKET IN 8041
LOCATION. IC SOCKET TO BE ONE OF THE FOLLOWING VENDOR'S FAMILIES
TEXAS INSTRUMENTS: C85, ROBINSON WUGENT: ICN OR ICA, AUGAT: 540,
SAMTEC : IC, EXCELL. 860.

5. APPROX POSITION FOR 8041/8741.
4. CONN TO BE USED IS AMP# 582777-5 OR EQUIV
3. PWR KEY IS ALTERNATE ACTION.
2. KEY CAPS SHOULD BE "IBM SCULPTURED" TYPE.
1. PART NO. IS 450-040-XX. THIS DOCUMENT & LIST OF VENDORS ARE TRACKING DOCUMENTS.
NOTES: UNLESS OTHERWISE SPECIFIED



25 MARK PART NO., REV LEVEL & VENDOR ID WITH CONTRASTING PERM COLOR .12 HIGH, APPROX WHERE SHOWN.

24. PACKAGE PER 8930001, TYPE A

23 FINGERS TO BE GOLD PLATED PER INTEL SPE
940001, PARAGRAPH B.1.

22. BEND RADII IS .06

21. KEYSWITCH MECHANICAL CHARACTERISTICS

- KEY FORCE: $2.5 \text{ oz} \pm 0.5 \text{ oz}$ (ALL KEYS EXCEPT SPACE BAR)
 $3.5 \text{ oz} \pm 0.5 \text{ oz}$ (SPACE BAR ONLY)
- TOTAL TRAVEL: $.165 \pm .025$
- PRETRAVEL: $.060 \text{ MIN.}$
- OVER TRAVEL: $.030 \text{ MIN.}$

KEYCAP TABLE			
DASH	DESCRIPTION	NOTE	
-05	9	10	11
-06	9	10	12

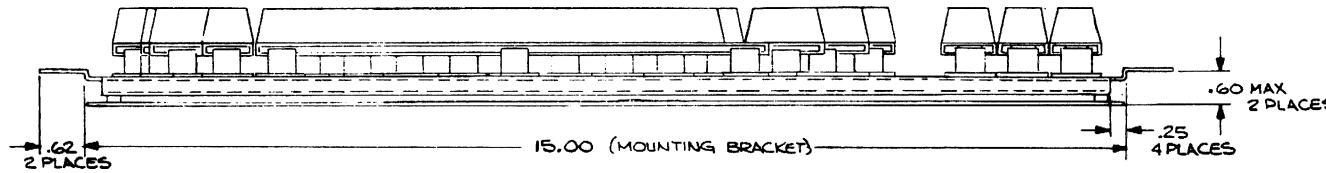
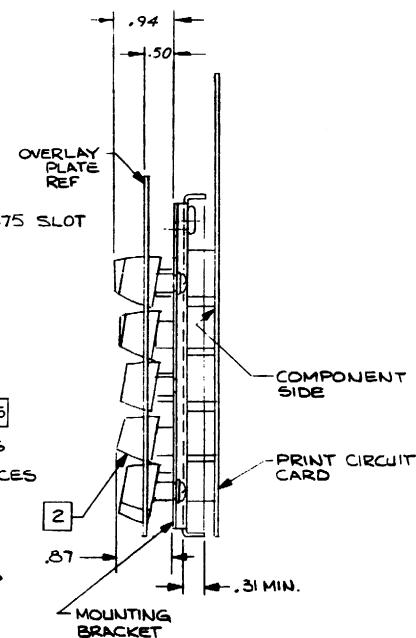
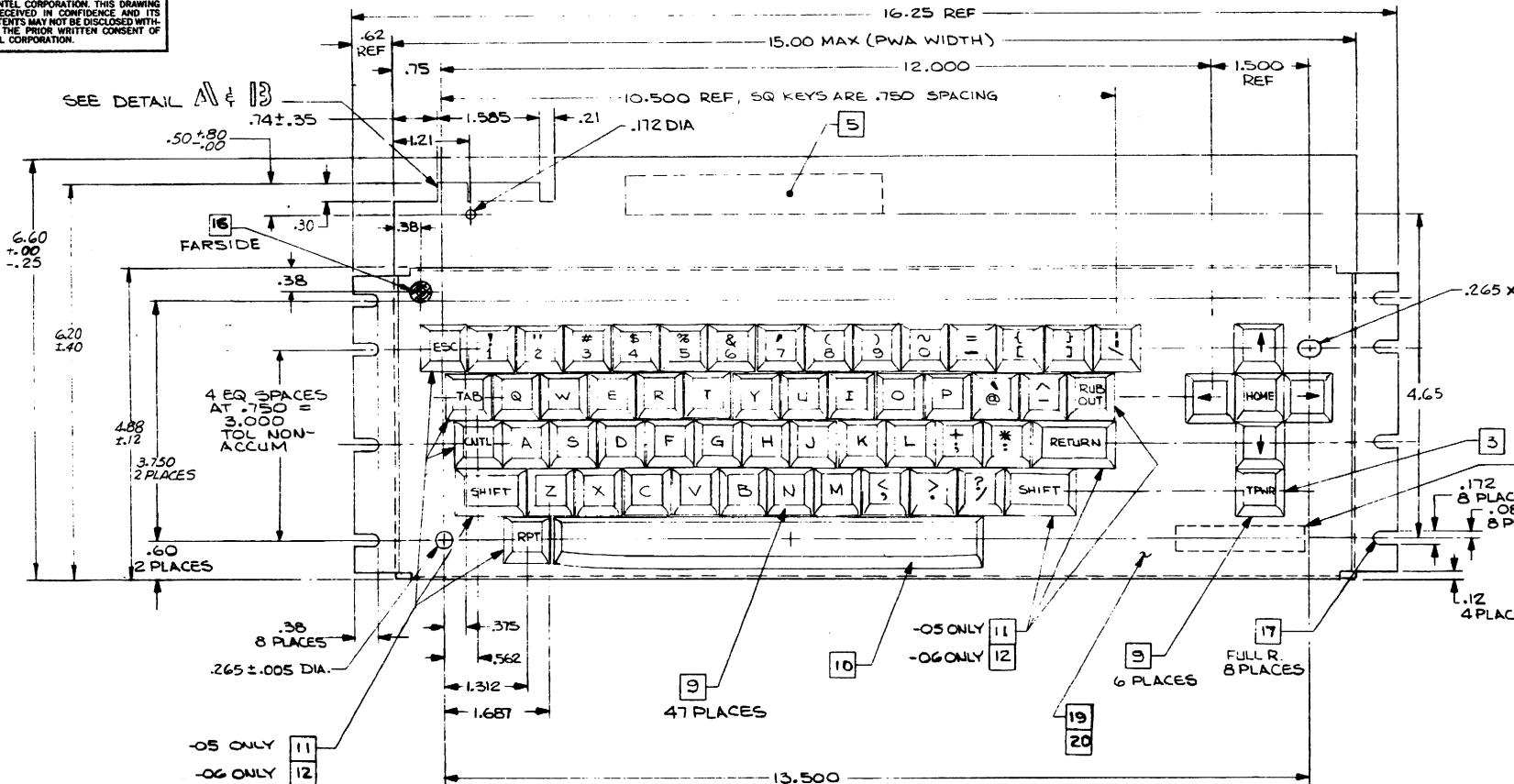
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DWG NO. P4501240 SH 2 RE F

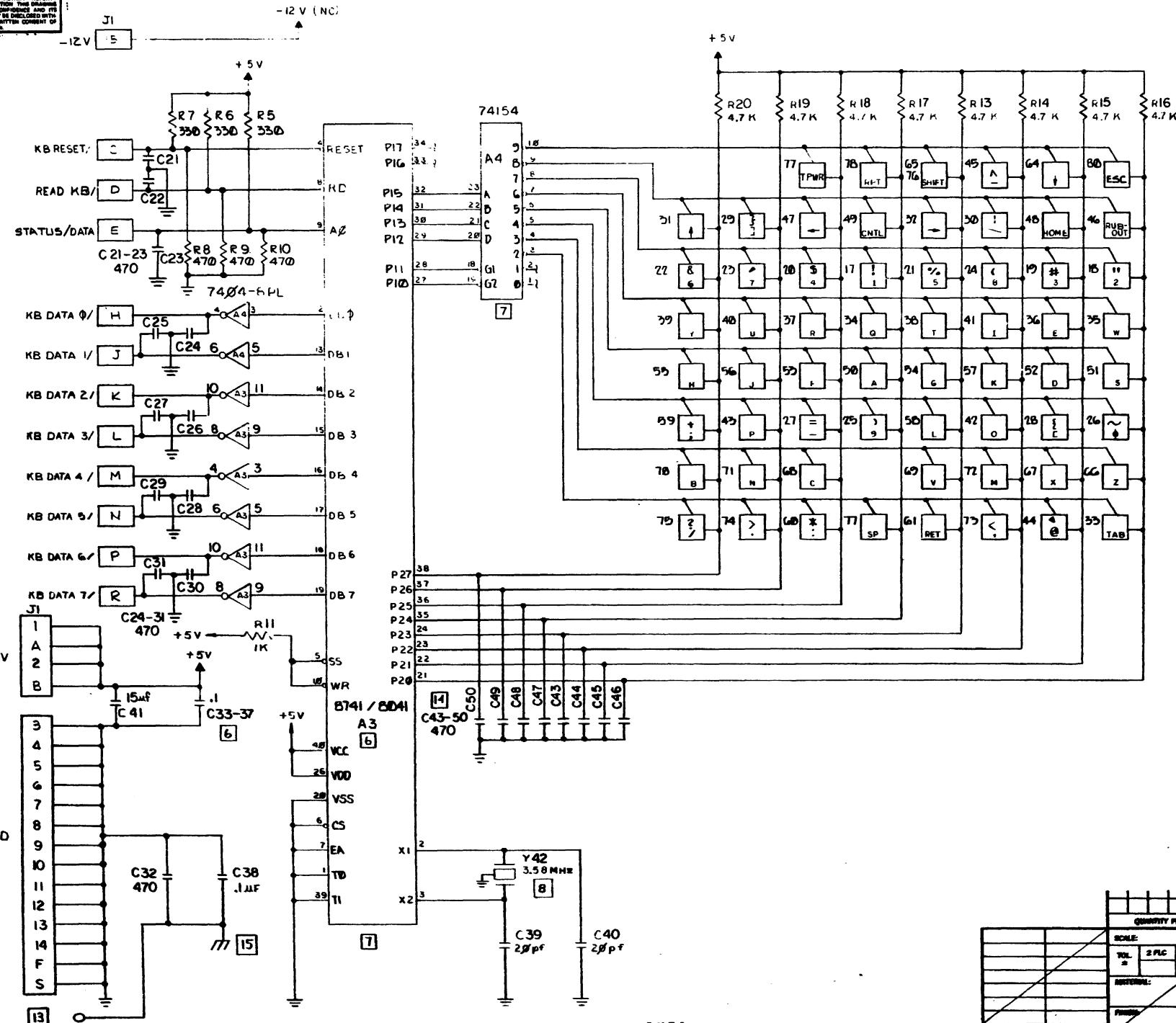
REVISIONS					
ZONE	REV	DESCRIPTION	DFT	CHK	DATE
		SEE SHT 1			

SEE DETAIL A & B —



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REVISIONS		
LTR	DESCRIPTION	SIGNATURE AND DATE
-	SEE SHEET 1	DS 9/3/77 -



QUANTITY PER DRAWING NO.		SIGNATURE	DATE
ITEM NO.	PART NUMBER		
SCALE: 2 PLU 3 PLU 4 PLU			
TOL. %	2 PLU	3 PLU	4 PLU
INTERNAL:	DATA BY	DATA BY	DATA BY
EXTERNAL:	DATA BY	DATA BY	DATA BY
POWER:	DATA BY	DATA BY	DATA BY
AVOID:	DATA BY	DATA BY	DATA BY
COMP:	DATA BY	DATA BY	DATA BY
DEPT:	DATA BY	DATA BY	DATA BY
DRWNG NO.:	DATA BY	DATA BY	DATA BY

KEY BOARD SCHEMATIC
MICRO-SWITCH

3000 DOUGLAS AVE.
SANTA CLARA,
CALIF. 95051

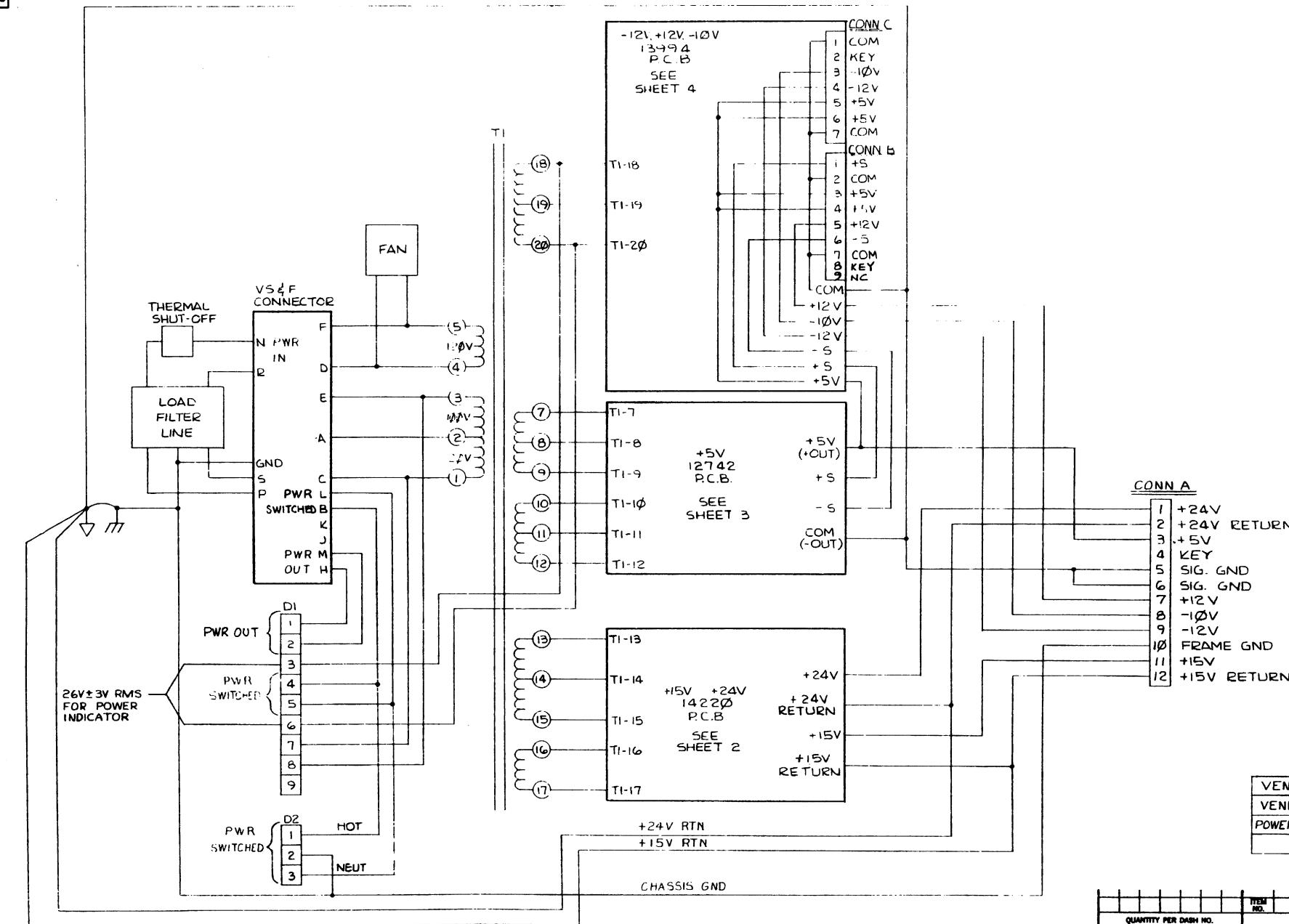
intel

KEY BOARD SCHEMATIC
MICRO-SWITCH

DEPT: DRWNG NO.: P4501240 F

REVISIONS

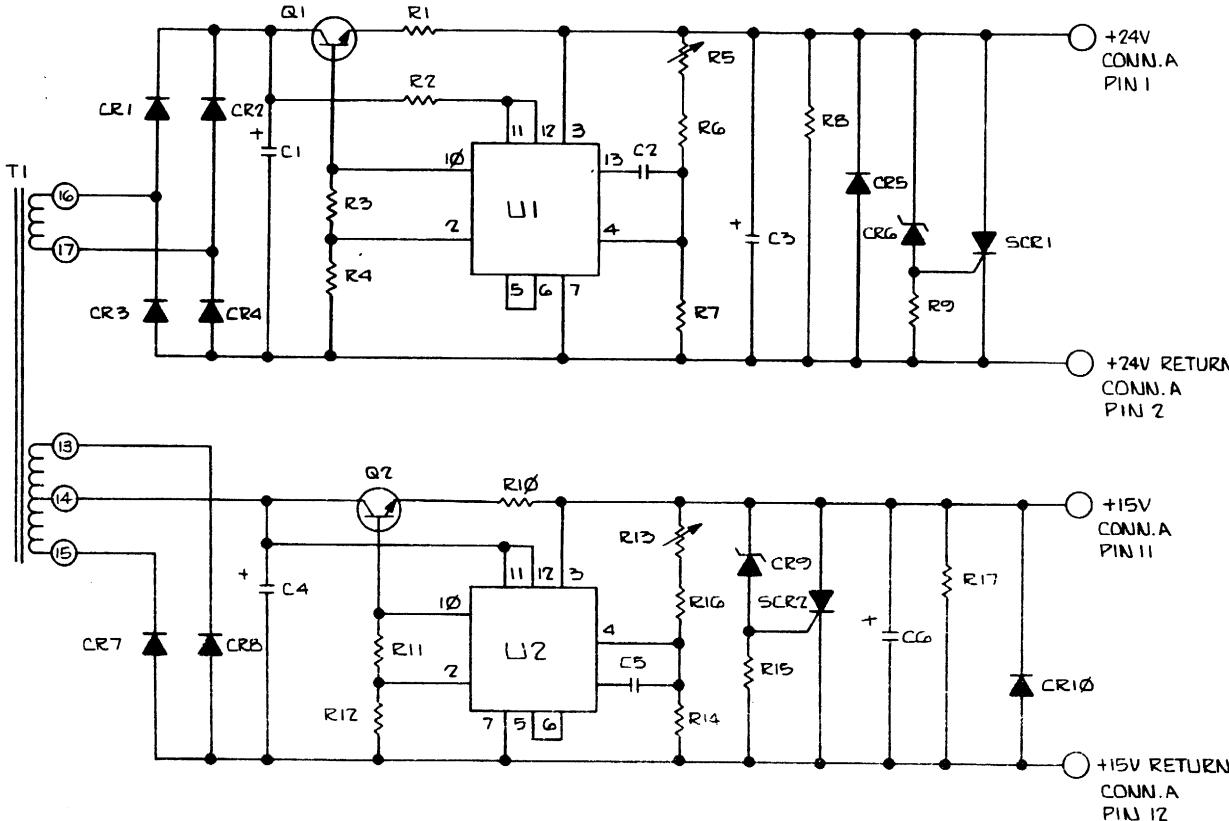
LTR	DESCRIPTION	SIGNATURE AND DATE	
		DFT	CHK
A	PROD. REL.	10-10-01	SBS
-	ECO 2-3151	10-10-01	SBS
B	ECO 13-6422	7-11-01	SBS



- VENDOR SCHEMATIC
POWER-ONE #14234
P.S. CP214

			ITEM NO.	PART NUMBER	DESCRIPTION		
QUANTITY PER DASH NO.			PARTS LIST				
SCALE:			SIGNATURE	DATE			
4501253	MDS-232		DRW BY M. WRIGHT	12-23-86	3605 BORRERS AVE. SANTA CLARA CALIF. 95083		
4501253	MDS-222	TOL. 2 PLC	3 PLC	ANGLE	intel		
4501253	MDS-231	=	=	=	TITLE		
4501253	MDS-221	MATERIAL:			SCHEMATIC DIAGRAM		
4501253	MDS-230				CRT/FLOPPY DISK		
4501253	MDS-220	FINISH:			REVISION		
NEXT ASBY: USED ON			AUTH BY: R. REED	11/16/86	SIZE	DEPT	DRAWING NO.
			CODE: V	SHEET 1 / OF 4	D	MCD	P2001254
							REV B

LTR	DESCRIPTION	SIGNATURE AND DATE		
		DFT	CHK	ENGR
-	SEE SHEET 1	-	-	-



C4	3300 / 35	CAPACITOR ALUM. ELECT
C1	3700 / 60	
C6	100 / 25 OR 35	
C3	47 / 50	CAPACITOR ALUM ELECT
C2 & C5	.001 / 1000	CAPACITOR, MYLAR
CR1-CR4, CR7 & CR8	AE3D	DIODE, 3A, 100V
CR5 & CR10	AE1C	DIODE, 1A, 200V
CR9	IN967B	DIODE, ZENER
CR6	IN971	DIODE, ZENER
SCR2	S0303LS3	SCR 3A
SCR1	S0508LS3	SCR 8A
Q1 & Q2	12500-4	TRANSISTOR
U1 & U2	MA723	IC VOLTAGE REGULATOR
R4	10K	RESISTOR 1/2W 5% CF
R12	7.5K	RESISTOR, 1/2W, 5%, CF
R5, R9, R11 & R15	530Ω	
R8, R17	2.2K	
R2	6.8Ω	
R14	2K	
R16	1.8K	RESISTOR, 1/2W, 5%, MF
R1 & R10	.22Ω	RESISTOR, 2W, 10%, DMM
R6	4.7K	RESISTOR, 1/2W, 5%, MF
R7	2.4K	RESISTOR, 1/2W, 5%, MF
R5 & R13	1.5K	POTENTIOMETER

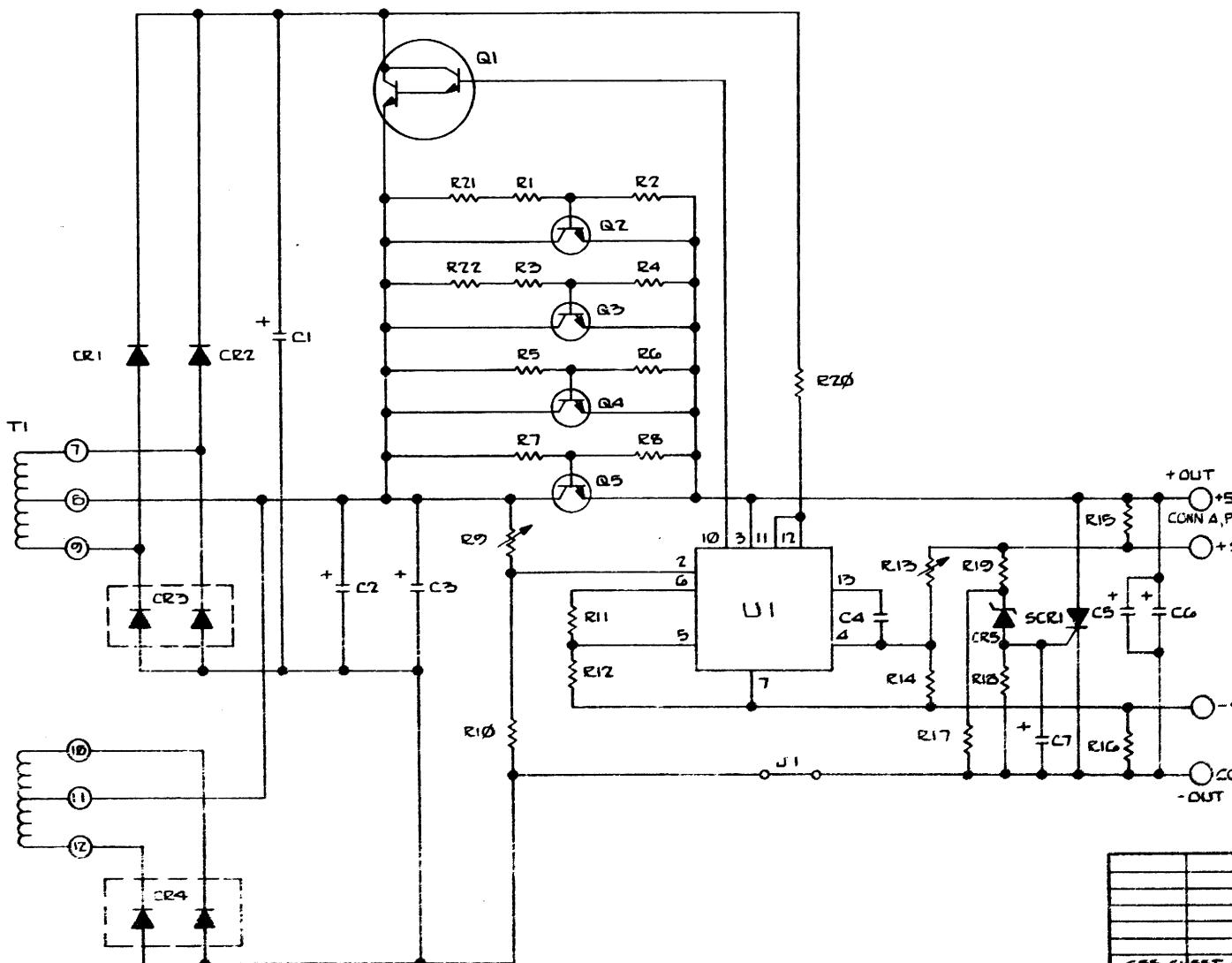
P.C.B.	14220	PRINTED CIRCUIT BOARD
ITEM NO.	PART NUMBER	DESCRIPTION

QUANTITY PER DASH NO.			PARTS LIST		
SCALE: NONE	SIGNATURE	DATE			
TOL. <input checked="" type="checkbox"/> 2 PLC <input type="checkbox"/> 3 PLC <input type="checkbox"/> ANGLE	DR. <i>[Signature]</i>	5/7/87			
MATERIAL: <input checked="" type="checkbox"/> DFT <input type="checkbox"/> DCD <input type="checkbox"/> ENGR <input type="checkbox"/> APPD	CHK BY: <input type="checkbox"/>				
FINISH: <input checked="" type="checkbox"/>	AUTH BY: <input type="checkbox"/>				
NEXT ASSY: <input checked="" type="checkbox"/>	USED ON: <input type="checkbox"/>	CODE: P2001254		SIZE: D	DRAWING NO.:
		SHEET 2 OF 4			REV. B

REVISIONS

LTR	DESCRIPTION	SIGNATURE AND DATE		
		DT.	CHK	ENGR
-	SEE SHEET 1			

- VENDOR SCHEMATIC -
POWER-SNE 14230
P.S CP 214



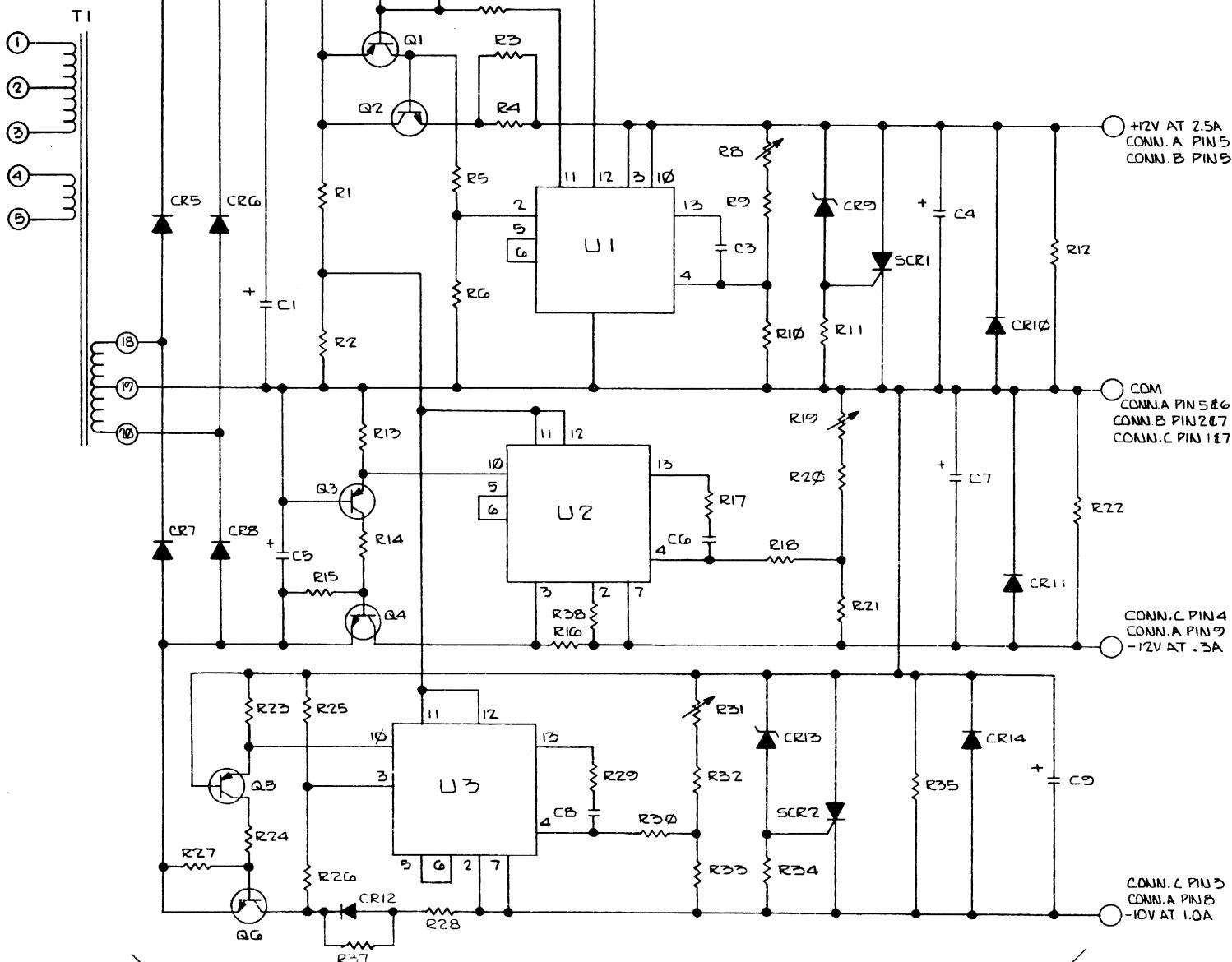
C1	2200 / 35	CAPACITOR ALUM. ELECT.
C2 & C3	64000 / 15	CAPACITOR ALUM. ELECT.
C5 & C6	1000 / 16	CAPACITOR ALUM. ELECT.
C7	10 / 25	CAPACITOR ALUM ELECT.
C4	.001 / 100	CAPACITOR MYLAR
CR1 & CR2	AE1C	DIODE 1A, 200V
CR3 & CR4	R731A	DIODE
CR5	IN752	DIODE, ZENER
SCR1	MRC49P-1	SCR
Q1	ZNG 55	TRANSISTOR
Q2, Q3, Q4 & Q5	1251 -1	TRANSISTOR
R9 & R13	1.5K	POTENTIOMETER
R2, R4, R6 & R8	22M	RESISTOR, 1/2W, 15%
R5, R7, R15, R16 & R19	6.8Ω	
R12	3.3K	
R10 & R11	2.2K	
R17	220Ω	
R18 & R20	47Ω	
R21, R22, R1 & R3	2.7Ω	
R14	2.7K	RESISTOR, 1/2W, ±5%
J1	14 GA.	WIRE, KNT, 7/34
U1	MA 723 C	I.C. VOLTAGE REGULATOR
P.C.B.	17742	PRINTED CIRCUIT BOARD

SEE SHEET
NEXT PAGE USED

QUANTITY PER DRAW NO.			PARTS LIST		
SCALE:	NONE		DESCRIPTION	DATE	DEPT. DRAWING NO.
TOL:	2 PLU	3 PLU	ANGLE	REV. B 9/77	INTEL SANTA CLARA, CALIF. 95003
S.					
MATERIALS:			TITLE: SCHEMATIC DIAGRAM POWER SUPPLY CRT / FLOPPY DISK		
PURCHASE			SIZE	DEPT.	DRAWING NO.
APPROV.			AUTH BY	MCD P2001254	
			COOK	SHEET 3 OF 4	

REVISONS

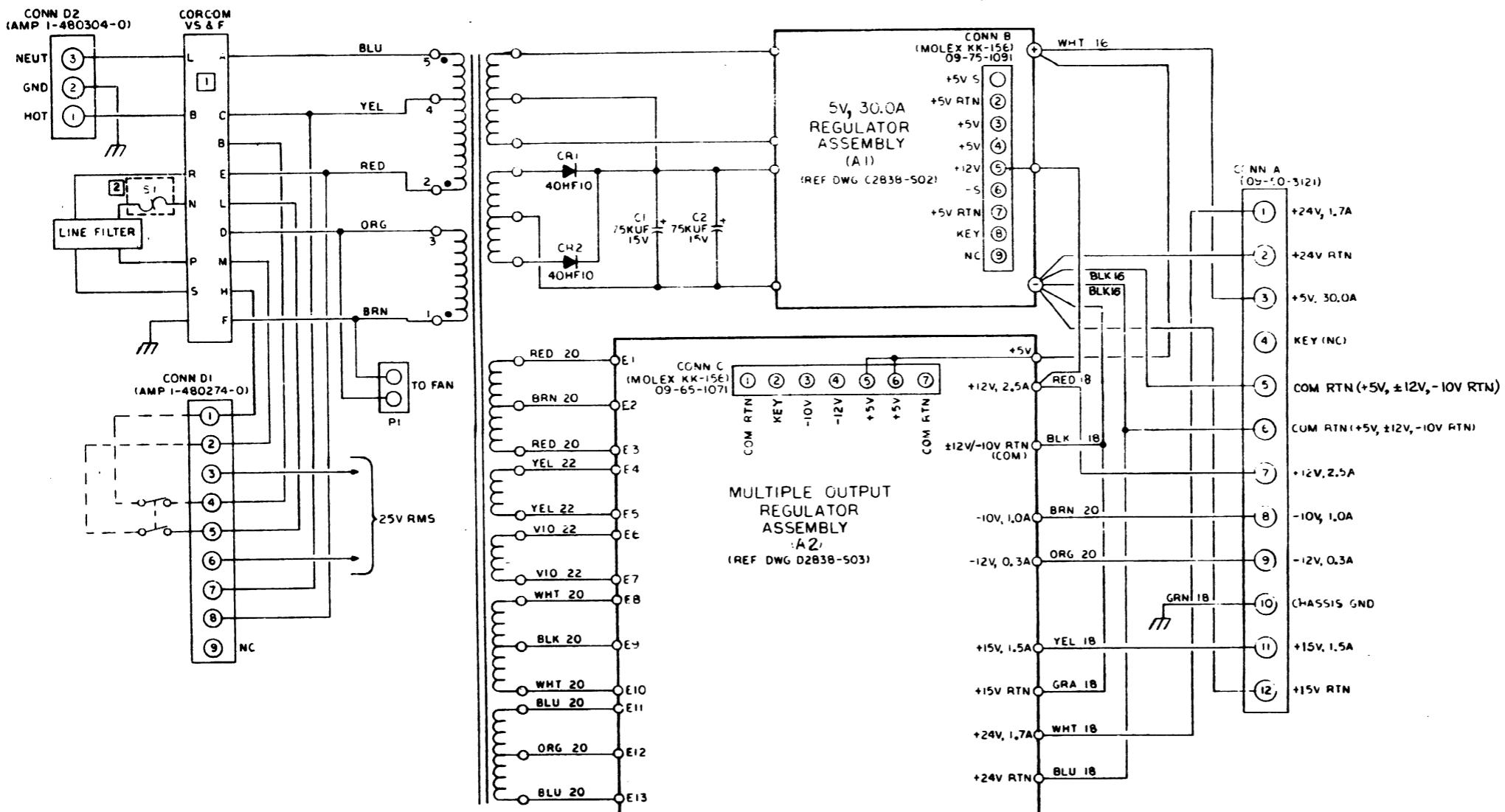
LTR	DESCRIPTION	SIGNATURE AND DATE
-	SEE SHEET 1	/ /



VENDOR SCHEMATIC
POWER-ONE 14214
P.S. CP 214

ITEM NO.	PART NUMBER	DESCRIPTION
QUANTITY PER DASH NO.		
SCALE: NONE	SIGNATURE: DRN BY H. J. Jungnickel	DATE: 5/77
TOL: <input checked="" type="checkbox"/> 2 PLC <input type="checkbox"/> 3 PLC <input type="checkbox"/> ANGLE	CHK BY: —	MATERIAL: —
FINISH: —	AFT APPD: —	ENGR APPD: —
AUTH BY: —	REV: B	CODE: P2001254
ITEM NO.	PART NUMBER	DESCRIPTION
1	7805 / 35	CAPACITOR ALUM ELECT
2	330 / 35	CAPACITOR ALUM ELECT
3	3200 / 35	CAPACITOR MYLAR
4	.001 / 100	CAPACITOR MYLAR
5	.01 / 100	CAPACITOR MYLAR
6	AE1C	DIODE 1A, 200V
7	AE3B	DIODE 3A, 100V
8	AE3E	DIODE 3A, 100V
9	IN965	DIODE ZENER
10	IN963	DIODE ZENER
11	2N6554	TRANSISTOR
12	12505-1	TRANSISTOR
13	2N2907	TRANSISTOR
14	12500-3	TRANSISTOR
15	5050BLS3	SCR BA
16	50503L53	SCR 3A
17	MA723	I.C. VOLTAGE REGULATOR
18	1.5K	POTENTIOMETER
19	330Ω	RESISTOR 1/2W, ±5% CF
20	330Ω	RESISTOR 1/2W, ±5% CF
21	330Ω	RESISTOR 1/2W, ±5% MF
22	4.7K	RESISTOR 1/2W, ±5% MF
23	4.7K	RESISTOR 1/2W, ±5% MF
24	.5Ω	RESISTOR 1/2W, ±5% MF
25	6.8Ω	RESISTOR 1/2W, ±5% MF
26	1K	RESISTOR 1/2W, ±5% MF
27	1.2K	RESISTOR 1/2W, ±5% MF
28	2.4K	RESISTOR 1/2W, ±5% MF
29	750Ω	RESISTOR 1/2W, ±5% MF
30	.18Ω	RESISTOR 2W, 10% BWH
31	.33Ω	RESISTOR 2W, 10% BWH
32	—	RESISTOR 2W, 10% BWH
33	—	RESISTOR 2W, 10% BWH
34	—	RESISTOR 2W, 10% BWH
35	—	RESISTOR 2W, 10% BWH
36	—	RESISTOR 2W, 10% BWH
37	—	RESISTOR 2W, 10% BWH

ITEM NO.	PART NUMBER	DESCRIPTION
1	intel	300 S. BOWERS AVE. SANTA CLARA CALIF. 95051
TITLE: SCHEMATIC DIAGRAM POWER SUPPLY CRT / FLOPPY DISK		
SIZE: D	DEPT: MCD	DRAWING NO: P2001254
REV: B		



SI CONTAINED ON A1 ASSEMBLY.

CORCOM VS&F CONTAINS FI(8A-100/115VAC, 4A-220/240VAC).

NOTES:

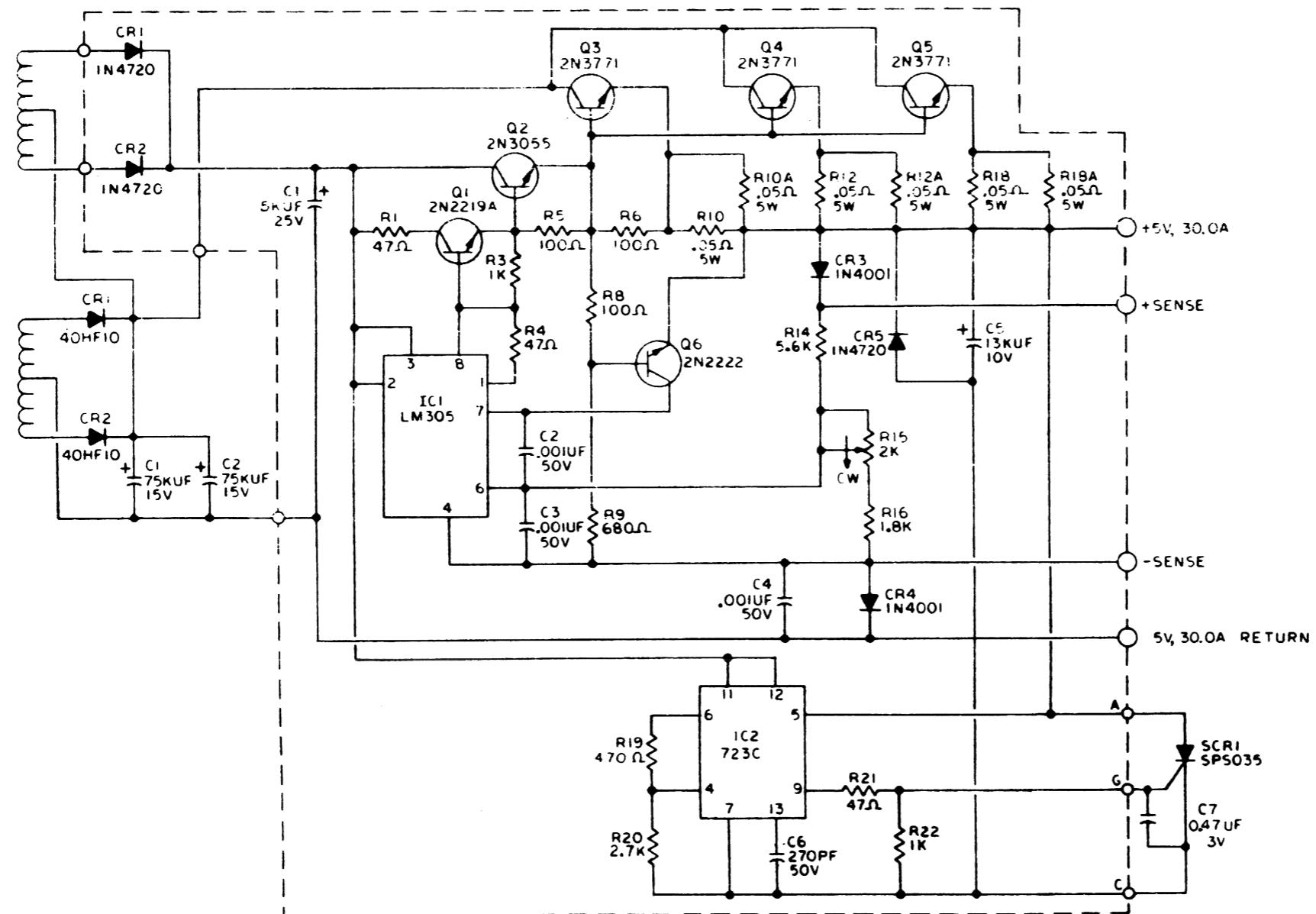
PROPRIETARY NOTICE
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DO NOT SCALE DWG.

XENTEK INCORPORATED
San Marcos, California

SCHEMATIC,
POWER SUPPLY
(INTEL)

TITLE	SIZE	DWG. NO.
SCHEMATIC	REV.	53279 D 2838-S01 EA
SCALE	WEIGHT	SHEET OF



1. RESISTORS ARE $1/2W \pm 5\%$ - CARBON FILM

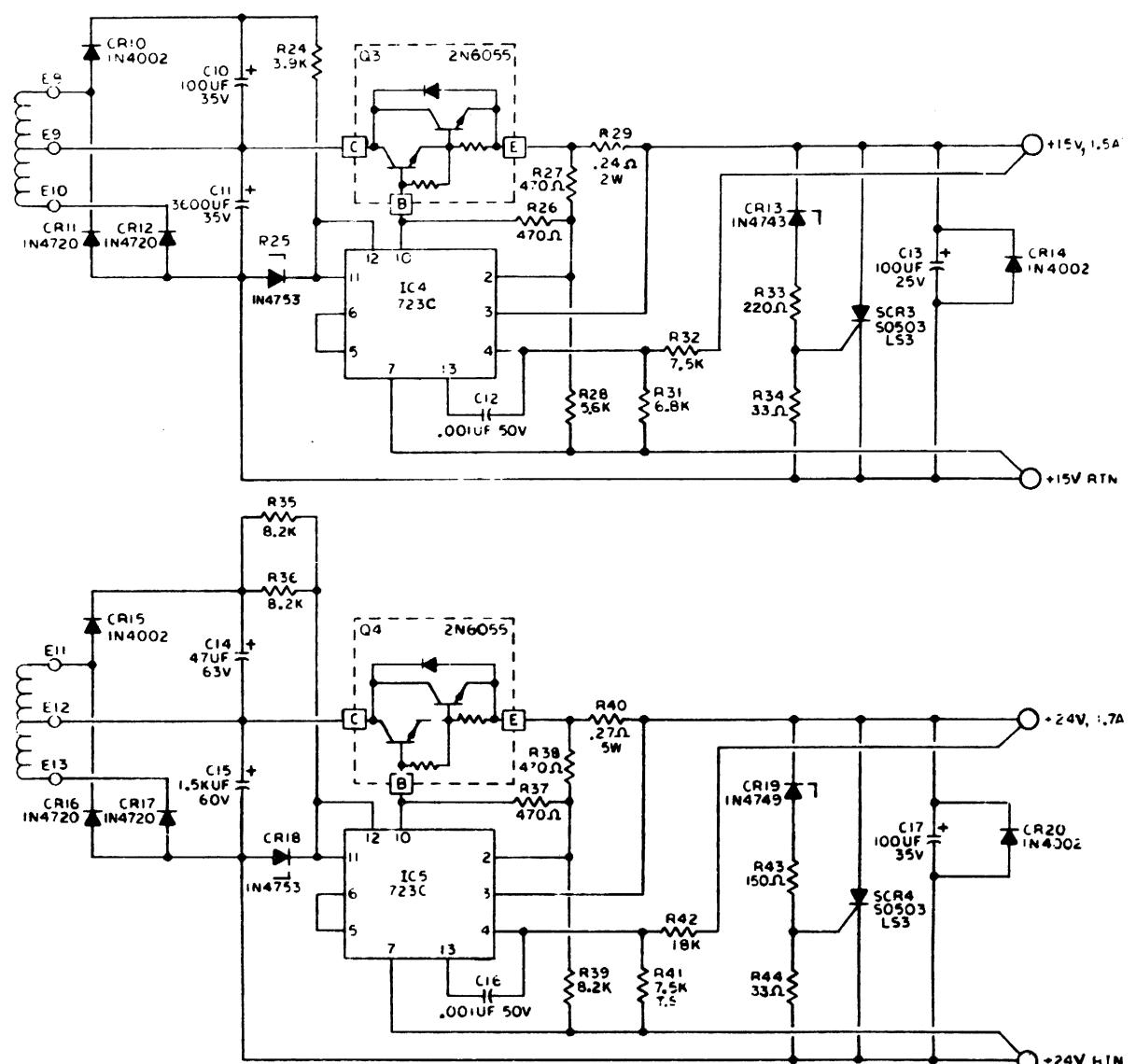
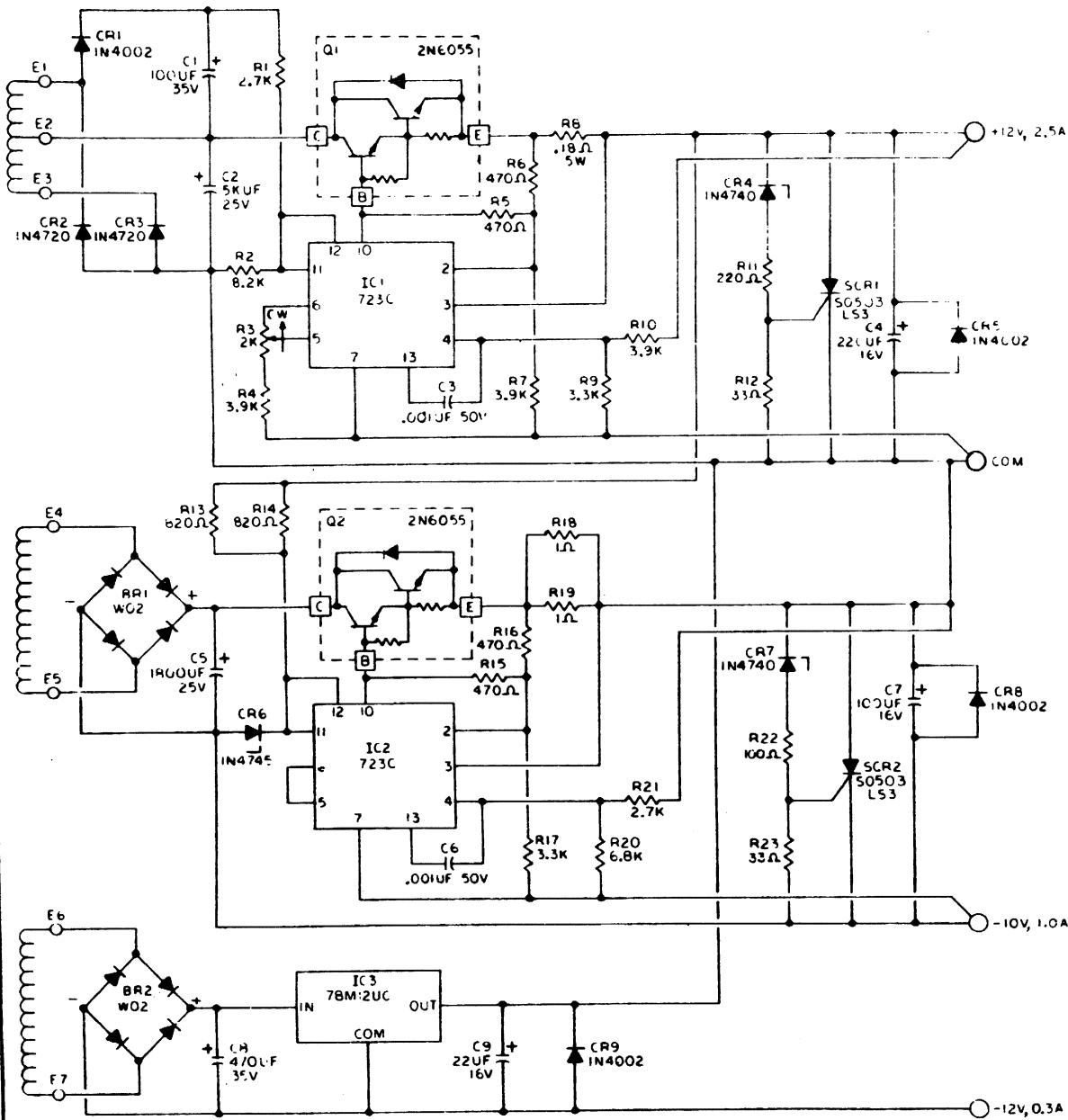
NOTES

XENTEK INCORPORATED
San Marcos, California

TITLE SCHEMATIC,
POWER SUPPLY

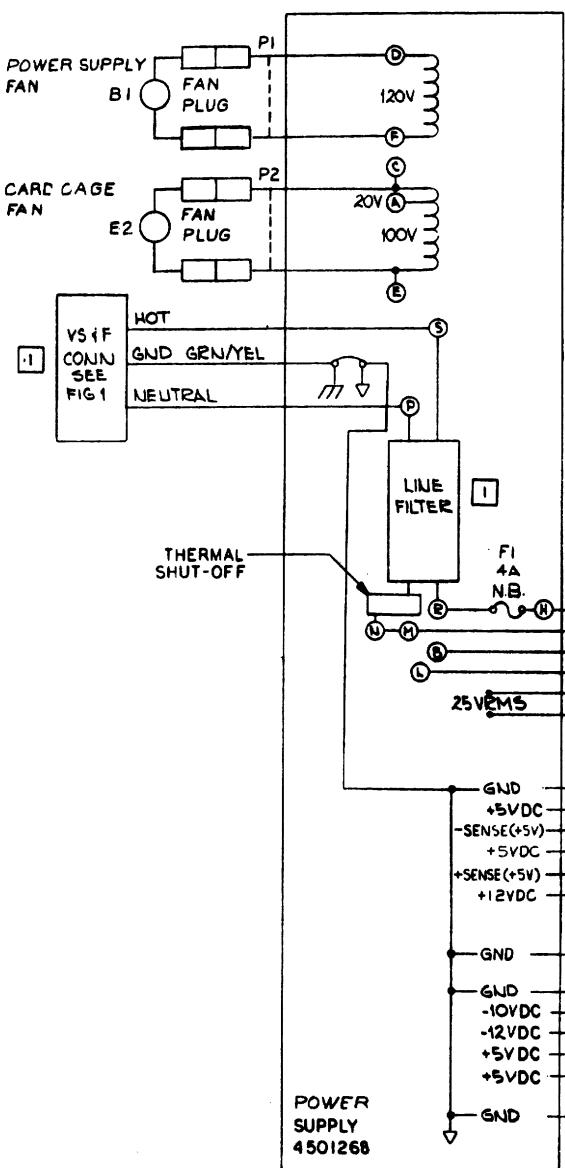
PROPRIETARY NOTICE

PATENT OR OTHER PROPRIETARY RIGHTS APPLICABLE TO THE ITEM SOLD HEREIN SHALL BE OWNED BY THE SELLER OR ITS INCORPORATED EXCEPT THAT THE PURCHASER SHALL HAVE THE RIGHT TO USE ITEM FOR THEIR INTENDED PURPOSE				(INTEL.)		
CODE IDENT	SIZE	DWG. NO.		REV.		
53279	D	2838-S02		B		
DO NOT SCALE DWG.		SCALE	WEIGHT	SHEET	OF	



1. RESISTORS ARE 1/2W ±5% - CARBON FILM.
NOTES:

XENTEK INCORPORATED San Marcos, California		
TITLE SCHEMATIC, POWER SUPPLY (INTEL)		
PROPRIETARY NOTICE ALL PATENT OR OTHER PROPRIETARY RIGHTS PERTAINING TO THE ITEMS SOLD HEREUNDER SHALL REMAIN THE SOLE PROPERTY OF XENTEK INCORPORATED EXCEPT THAT THE PURCHASER SHALL HAVE THE RIGHT TO USE SUCH ITEMS FOR THEIR INTENDED PURPOSE		
CODE IDENT	SIZE	DWG. NO.
53279	D	2838-S03
REV. C		
DO NOT SCALE DWG. SCALES	WT. IN OZ.	SHEET OF



ITEM NO.				PART NUMBER	PARTS LIST	
QUANTITY PER DRAW. NO.					DESCRIPTION	
NO. 1000						
SCALE	SPECIFICATION			DATE		
TOL.	2 PEC	3 PEC	INCHES	DATE OF MANUFACTURE	MATERIAL TESTED	
—	—	—	—	7-19-00	TESTED	
MANUFACTURER:				TELE		
ADDRESS:				SYSTEM INTERCONNECT		
PHONE:				MDS-201/202		
CODE:				REV. A		
PRINTED 1 OF 3				PAGE 1 OF 1		
PRINTED 1 OF 3				PAGE 1 OF 1		
PRINTED 1 OF 3				PAGE 1 OF 1		

1. FUSE REQUIREMENTS.
110V - 4A
230V - 2A

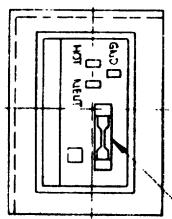
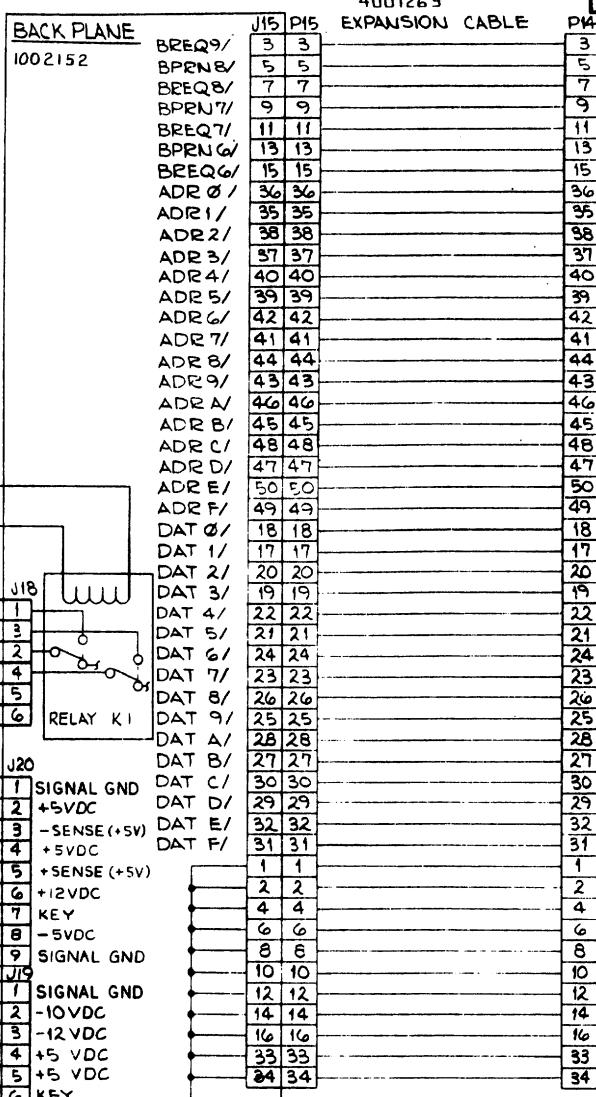


FIG. 1
SCALE: NORM.

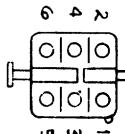


FIG 2
SCALE: NONE
REAR VIEW

REVISIONS			
LIN	DESCRIPTION	SIGNATURE AND DATE	
A	LRU. RE-2M ECO 13-6256	DET. CMC 1/14/84 P. B.	

4001269
EXPANSION CABLE

P16

BCLK/	49	49	49
INIT/	47	47	47
BUSY/	45	45	45
MRDC/	43	43	43
MWTC/	41	41	41
IORC/	39	39	39
IOWC/	37	37	37
XACK/	35	35	35
INH 1/	33	33	33
AACK/	31	31	31
INH 2/	29	29	29
SPARES			
	27	27	27
	26	26	26
	25	25	25
	24	24	24
	23	23	23
	17	17	17
CLOCK/	21	21	21
SPARE	19	19	19
INT 6/	15	15	15
INT 7/	13	13	13
INT 4/	11	11	11
INT 5/	9	9	9
INT 2/	7	7	7
INT 3/	5	5	5
INT 0/	3	3	3
INT 1/	1	1	1
+12VDC	2	2	2
-5VDC	30	30	30
	4	4	4
	6	6	6
	8	8	8
	10	10	10
	12	12	12
	14	14	14
	16	16	16
	18	18	18
	20	20	20
	22	22	22
	28	28	28
	30	30	30
	32	32	32
	34	34	34
	36	36	36
	38	38	38
	40	40	40
	42	42	42
	44	44	44
	46	46	46
	48	48	48

BACK PLANE
1002152

I2C6 +12V

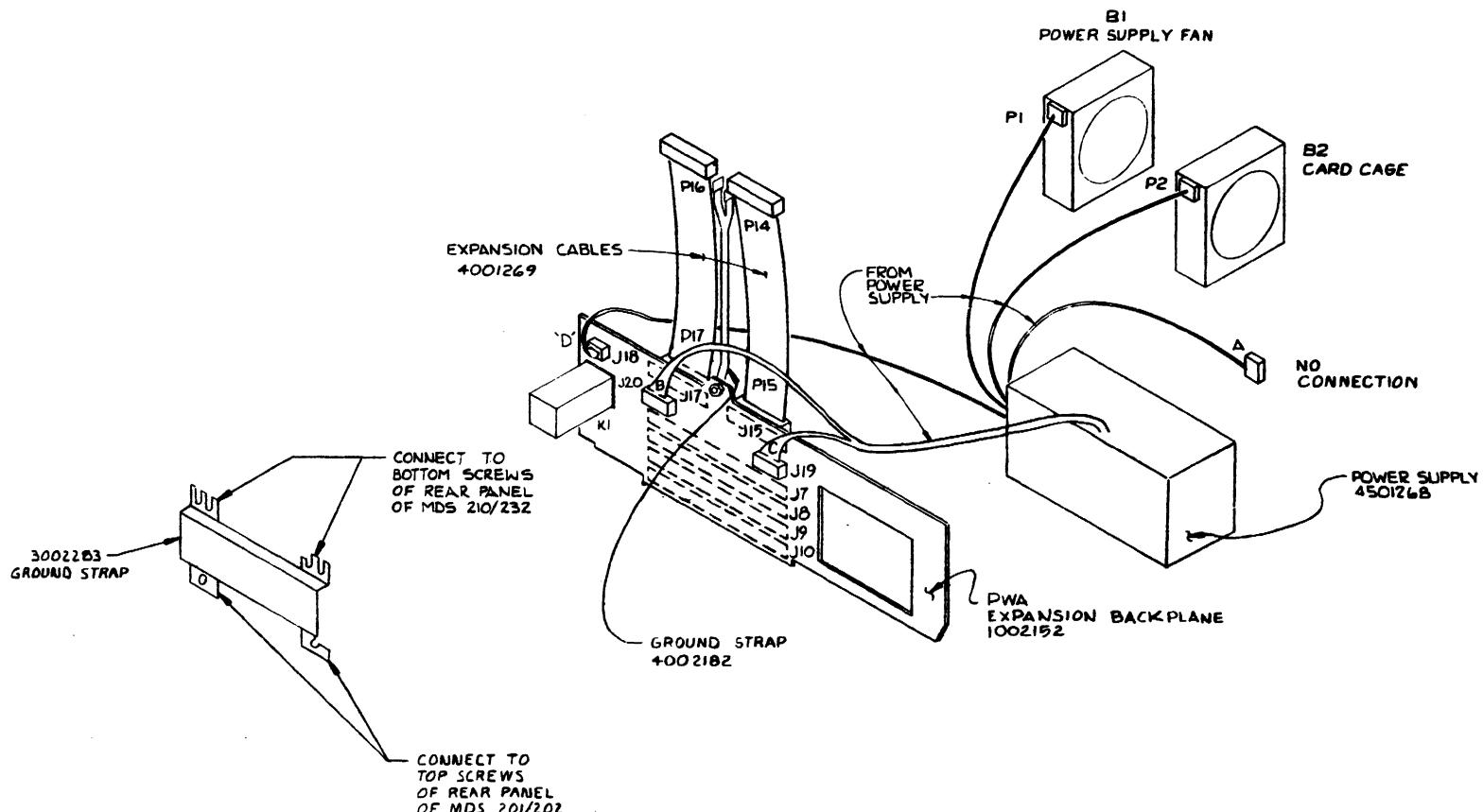
I2C6 GND

MODEL
MDS-201/202

SEE SHEET 1	1
REV. DATE Sheet 2 of 3 D 1/30/01 P123335 A	2

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CONTRACTUAL AGREEMENTS RELATING
TO THE ORIGINAL OR DERIVED
ITEM.

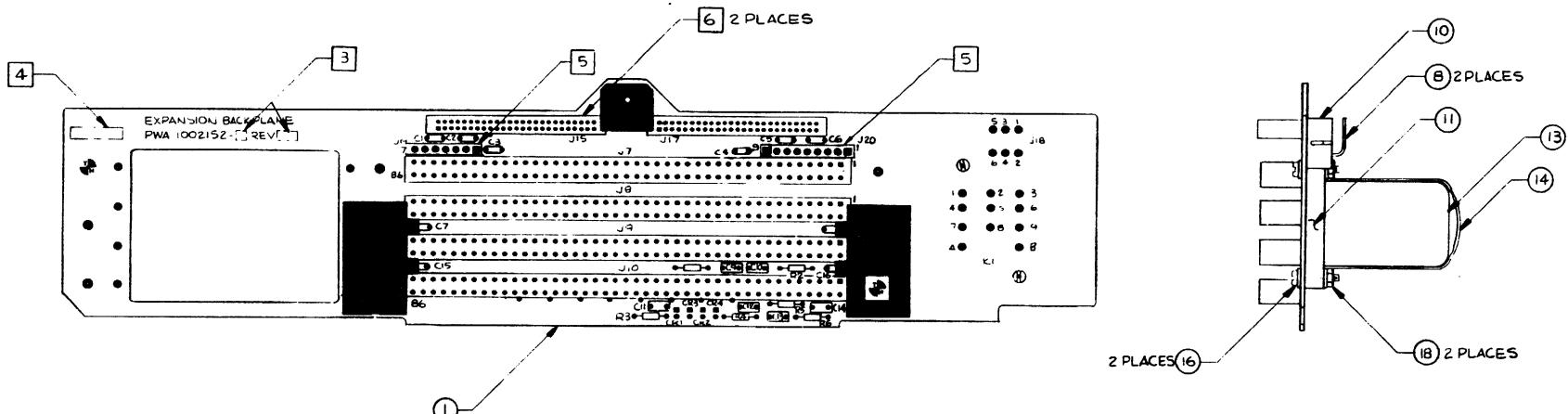
REVISIONS				
LTR	DESCRIPTION	DFT	CHK	ENDR
-	SEE SHEET 1	MWW		



MODEL
MDS-201/202

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INTEL CORPORATION.

REVISED		
REV	DESCRIPTION	SIGNATURE AND DATE
1	ENGR RELEASE	ACME 5/1/98
2	ENGR REL ECO 2-3036	APR 1998
A	ECO 2-3151	APR 1998
B	ECO 2-4613	APR 1998
-	LIMITED PROD RELEASE RW0061	APR 1998
C	ECO 2-4922	APR 1998
D	ECO 13-5782	APR 1998



- [6] MOUNT OPEN SIDE AT THE TOP EDGE.
- [5] REMOVE PIN 6(KEY)ON J19 & PIN 7(KEY)ON J20.
- [4] MARK ASSY VENDOR ID WITH CONTRASTING PERM COLOR,
NON-CONDUCTIVE, .12 HIGH, APPROX WHERE SHOWN.
- [3] MARK ASSY DASH NO AND REV LEVEL WITH CONTRASTING
PERM COLOR, NON-CONDUCTIVE, .12 INCH HIGH APPROX WHERE SHOWN.
- 2. WORKMANSHIP PER MCSD QAWS 99-0007-001.
- 1. ASSY PART NO. IS 1002152-02. ASSY AND PL
ARE TRACKING DOCUMENTS.

NOTES: UNLESS OTHERWISE SPECIFIED

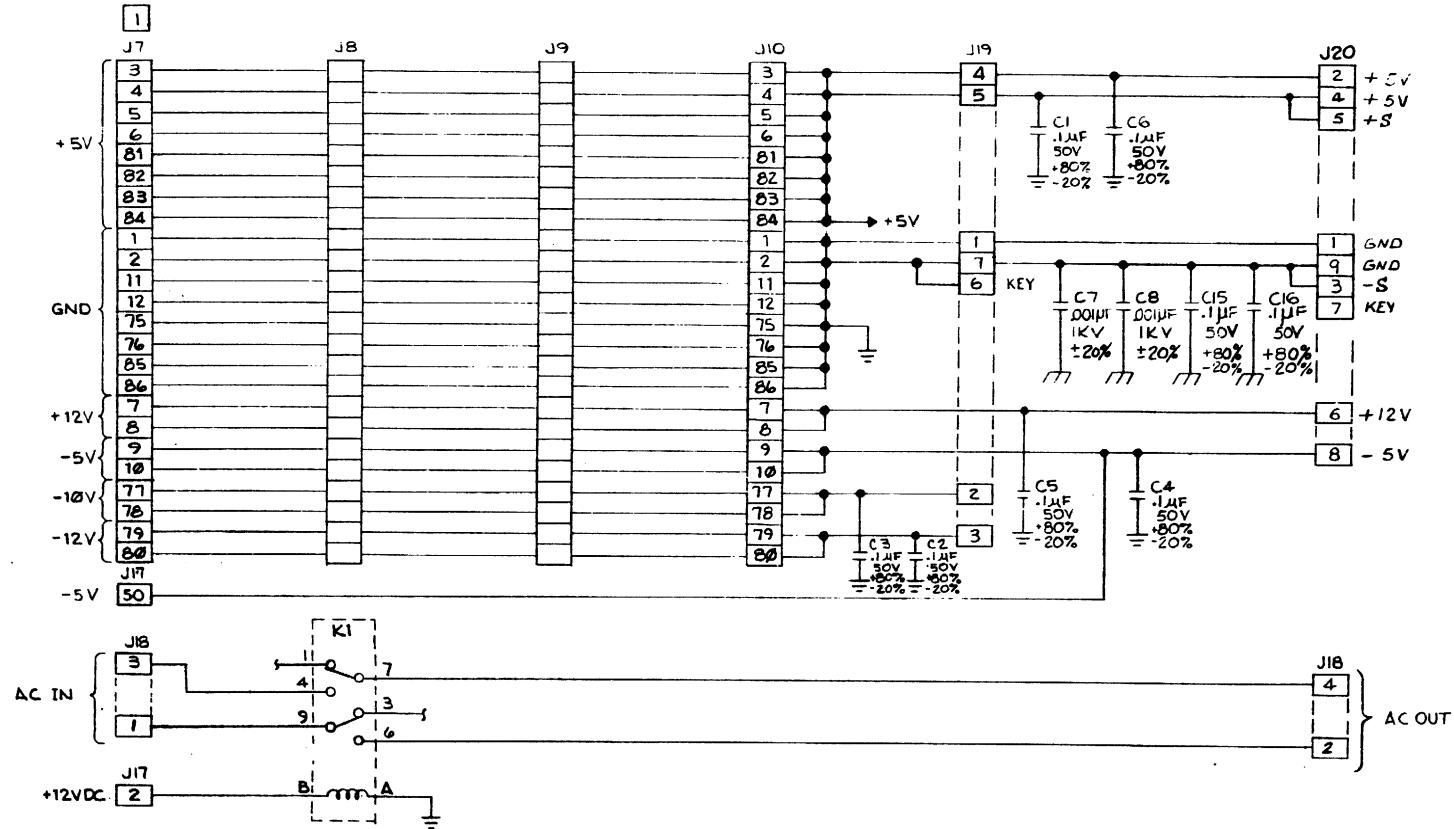
SEE SEPARATE PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	
		PARTS LIST	
QUANTITY PER DASH NO			
SCALE	SIGNATURE		DATE
TOL. =	2 PLC	3 PLC	DRN BY: A. ESPAÑOLA 5/1/98
MATERIAL:		CHK BY:	
DFT APPD ENGR CAPT: [Signature]		TITLE: PRINTED WIRING ASSY EXPANSION BACKPLANE	
FINISH		AUTH BY:	
NEXT ASSY	USED ON	CODE: SHEET 1 OF 1	SIZE DEPT DRAWING NO. REV
D	MCSD	L 1002152	D

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REVISONS

LTR	DESCRIPTION			SIGNATURE AND DATE
	DFT	CHK	EMGR	
A	CREATED PER ECO Z-4921			10/17/79 10/17/79

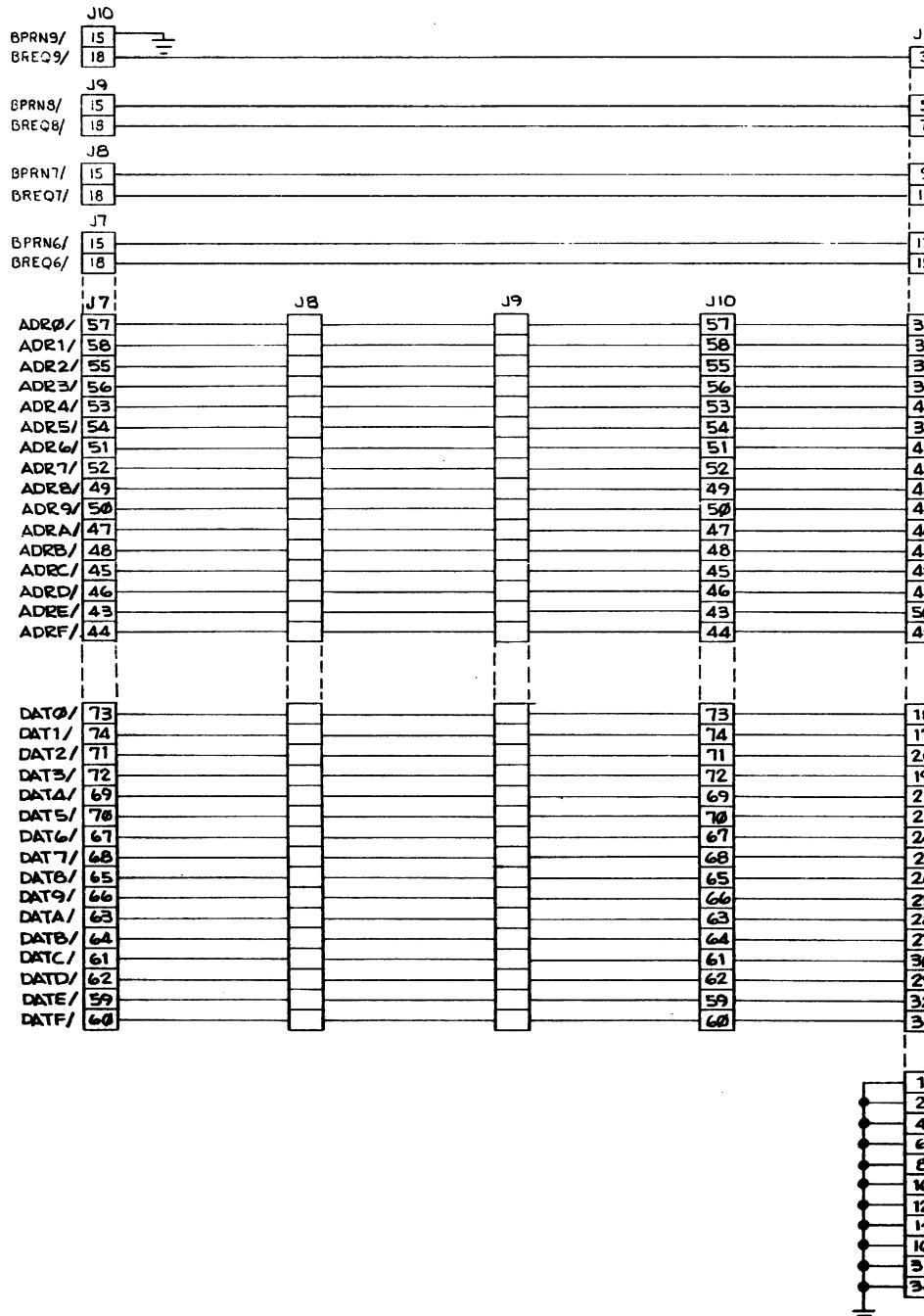


- 3. ALL RESISTOR VALUES ARE 33 OHMS, $\frac{1}{4}$ W, $\pm 5\%$.
- 2. ALL CAPACITORS ARE 100 PICOFARADS, 500V, $\pm 5\%$.
- 1 PIN NUMBERS FOR J7, J8, J9 AND J10 ARE ALL THE SAME.

NOTES: UNLESS OTHERWISE SPECIFIED

REF ID	QUANTITY	ITEM NO.	PART NUMBER	DESCRIPTION			
				PARTS LIST			
R16				SCALE: NONE	SIGNATURE	DATE	
K1				TOL. \pm	2 PLG	3 PLG	ANGLE
J20	1	J1-4 J11-14	MDS-202	—	—	—	—
—	—	CRI-CR4		—	—	—	—
C16	—	1002152		MATERIAL:			
LAST USED	NOT USED	1002152	MDS-201	DFT APPD			
REF DESIGNATIONS	NEXT ASSY	USED ON		EMGR APPD			
				FINISH:			
				AUTH BY:			
				JOHN BLASCH	7/1/79		
				CODE:	SHEET 1 OF 3	REV	
				D	MCSD	L2002771	A

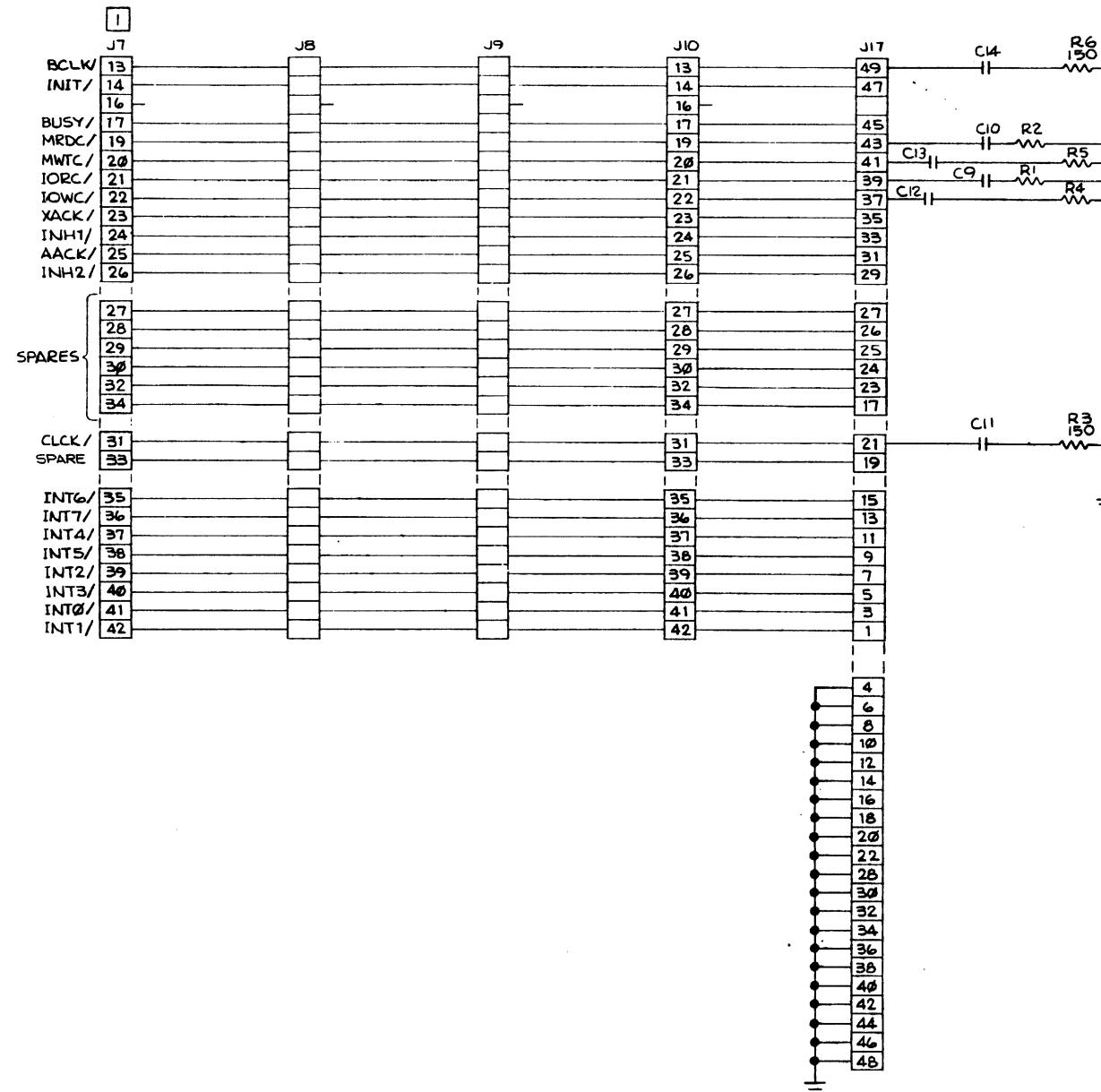
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REVISIONS				
LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1			

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REVISIONS				
LTR	DESCRIPTION	DFT	CHK	ENGR
-	SEE SHEET 1			



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ZONE	REV	DESCRIPTION	DFN	CNC	DATE	APPROVED
	-	ECO 2-3151	P200	BB	1/17/99	JW

CONN

A

CHASSIS GND
SIGNAL GND

KEY
NC
+5VDC
SIGNAL GND
KEY

CONN

B

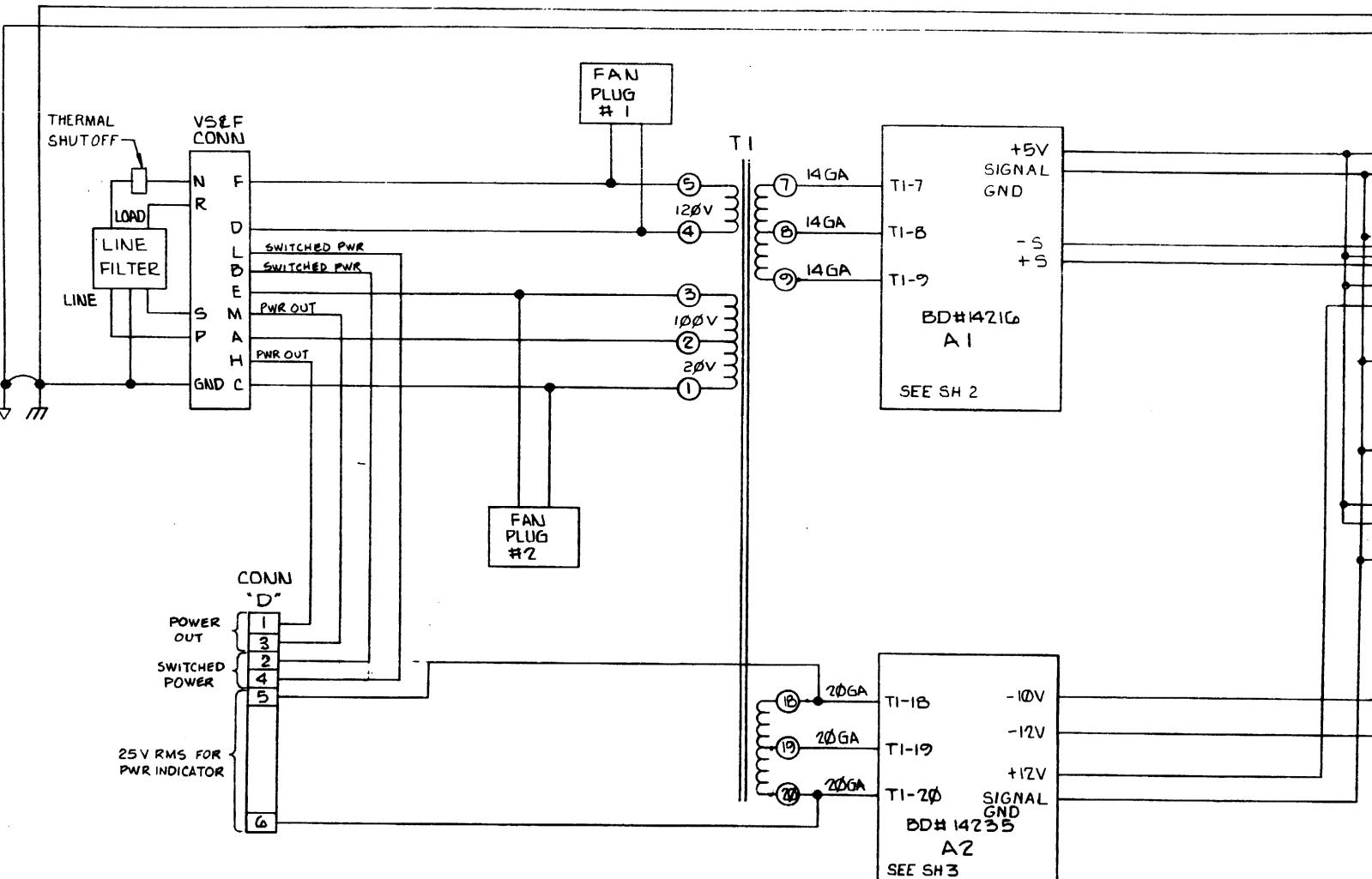
SIGNAL GND/-SENSE
+5VDC/+SENSE
+5VDC
+12VDC
KEY
N.C.
SIGNAL GND

CONN

C

SIGNAL GND
-10VDC
-12VDC
+5VDC
+5VDC
KEY
SIGNAL GND

VENDOR SCHEMATICS	
VENDOR	Sheets
POWER-ONE	1,2,&3
XENTEK	4



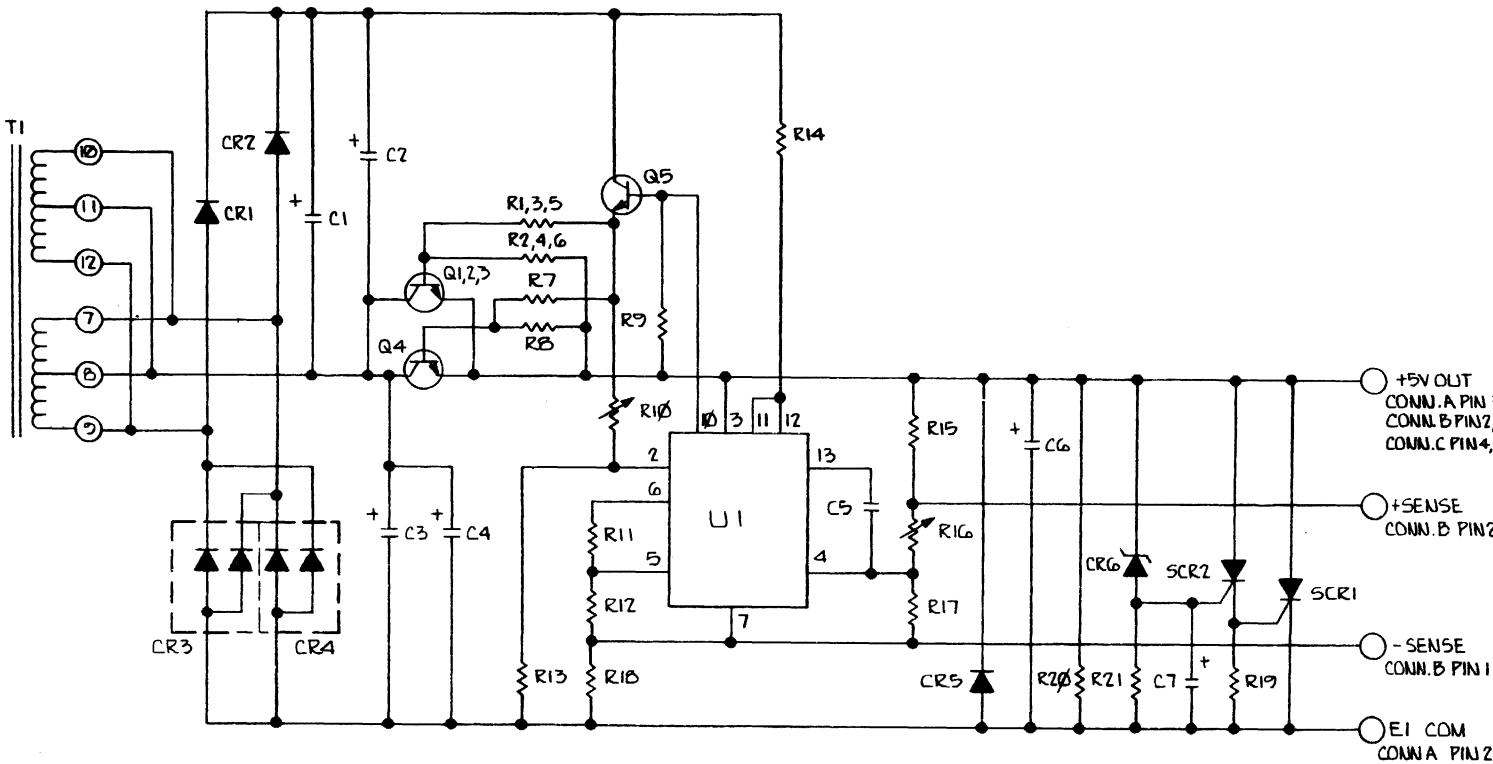
VENDOR SCHEMATIC
POWER-ONE 14233
P.S. CP215

QUANTITY PER DASH NO.		ITEM NO.	PART NUMBER	DESCRIPTION
SCALE: NONE				PARTS LIST
TOL. =	2 PLC	3 PLC	ANGLE	DRAW BY: J.W. Signature 1/17/99
				CHK BY: T. MELVILLE 1/17/99
MATERIAL:				TITLE: SCHEMATIC DIAGRAM-
4501268 MDS-211				EXP CHASSIS POWER SUPPLY
4501268 MDS-210				DET. NO. 1
4501268 MDS-202				ENG'D: 2-96C-L 1/17/99
4501268 MDS-201				AUTH'D BY: J.W. Signature 1/17/99
NEXT ASSY				SIZE: DEPT: DRAWING NO.: REV: D MDS-1 P2001271 B
USED ON				CODE: SHEET 1 of 4

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REVISIONS

LTR	DESCRIPTION	SIGNATURE AND DATE
-	SEE SHEET 1	



VENDOR SCHEMATIC
POWER-ONE 14215
P.S. CP215

C1,C2,C6	10000/10	CAPACITOR ALUM ELECT
C3,C4	64.000A/15	CAPACITOR ALUM ELECT.
C5	.001/100	CAPACITOR MYLAR
C7	10/25	CAPACITOR ALUM ELECT
CR1,CR2	AE1C	DIODE 1A,300V
CR3,CR4	R711A	DIODE BRIDGE
CR5	AE3B	DIODE 3A, 100V
CR6	IN752A	DIODE, ZENER
SCR1	MCR649P-1	SCR 20A, 25V
SCR2	90303LSS	SCR 3A, 30V
U1	MA723	IC VOLTAGE REGULATOR
Q1,Q2,Q3,Q4	12505-2	TRANSISTOR POWER
Q5	12500-3	TRANSISTOR POWER
R1,3,5,7,15,18	6.8Ω	RESISTOR, 1/2W, 5%, CF
R2,4,6,8,14	22Ω	
R9,11,17,13	2.2KΩ	
R19,R20,R21	82Ω	RESISTOR, 1/2W, 5%, CF
R17	1.6K	RESISTOR, 1/2W, 2%, MF
R10,R16	1.5K	POTENTIOMETER

P.W.B. 14216 PRINTED CIRCUIT BOARD

ITEM NO.	PART NUMBER	DESCRIPTION
QUANTITY PER DASH NO.		
SCALE: NONE		
TOL:	2 PLC	3 PLC
DRN-BY: 1/10/1987		
CHK BY: [Signature]		
MATERIAL: / / / / /		
DFT APPD APPD APPD		
FINISH: / / / / /		
AUTH BY: / / / / /		
CODE: P2001271	SHEET 2 OF 4	REV: B

2000 BERNARD AV.
SANTA CLARA
CALIF. 95051

intel

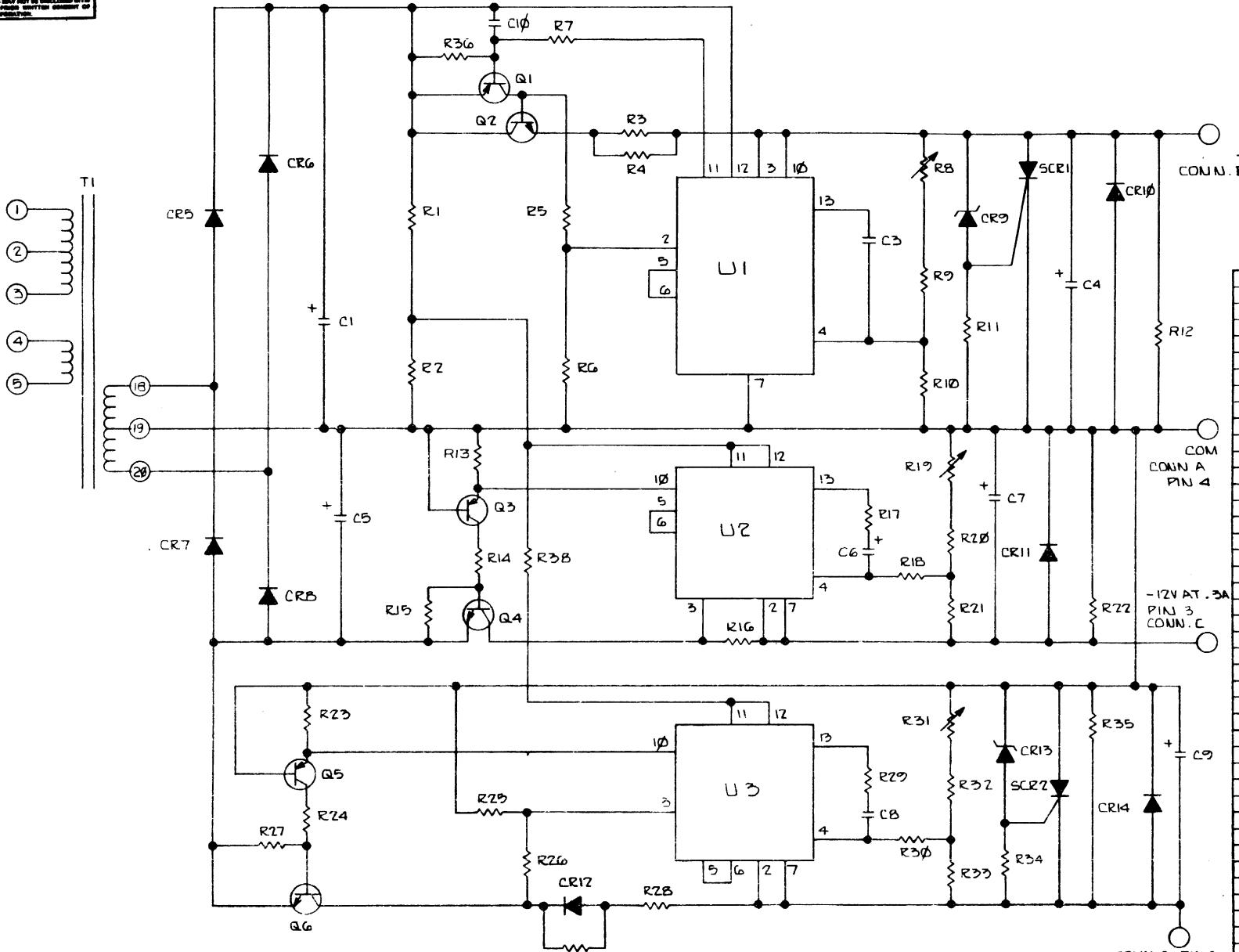
SCHEMATIC DIAGRAM -
EXP. CHASSIS POWER SUPPLY

D MESD P2001271 B

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REVISONS

LTR	DESCRIPTION	SIGNATURE AND DATE
SEE SHEET 1	DFT	CHK ENGR

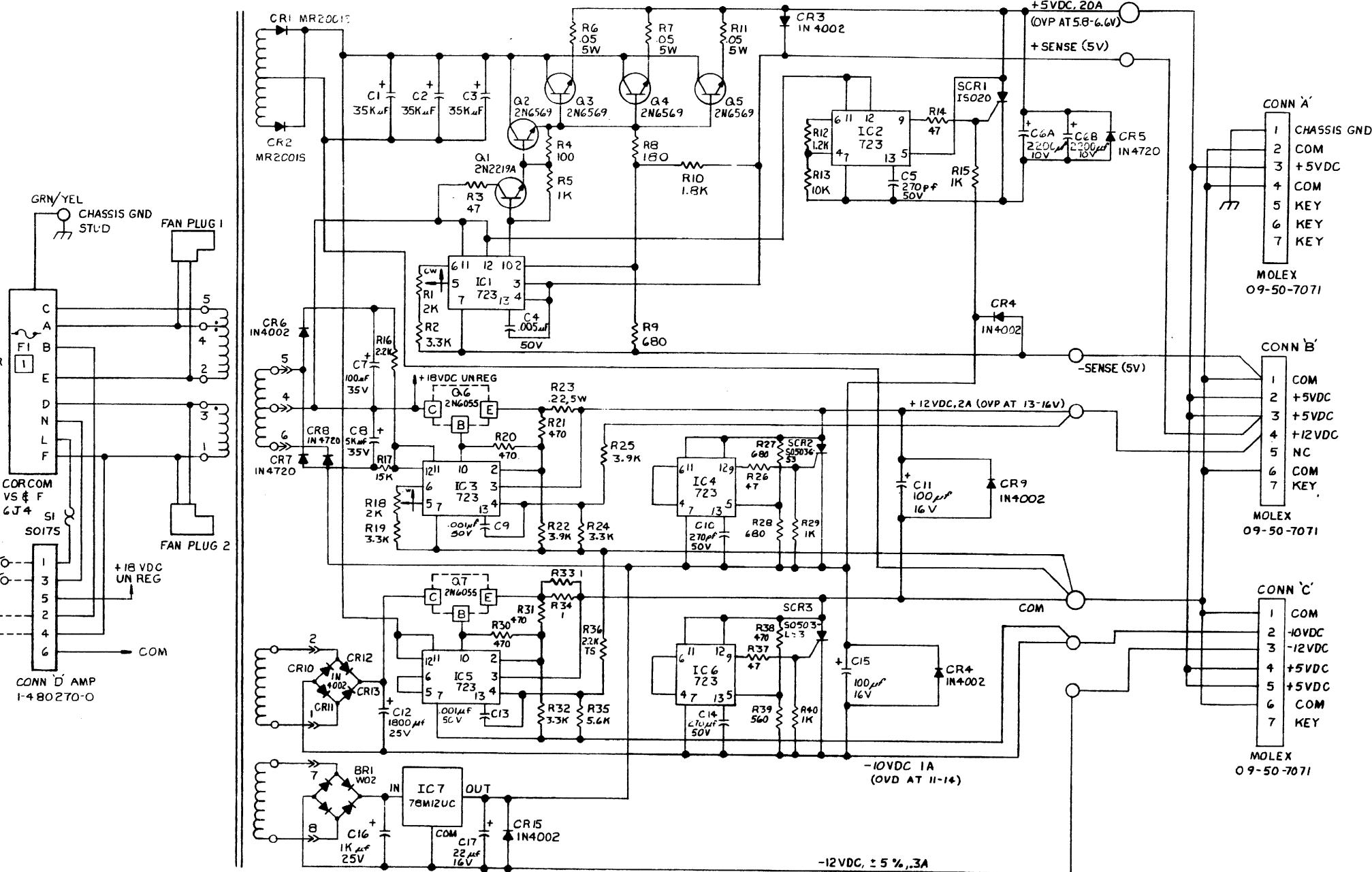


VENDOR SCHEMATIC
POWER ONE 13995-C
PWB 14235

QUANTITY PER DASH NO.		ITEM NO.		PART NUMBER		DESCRIPTION	
SCALE: NONE		SIGNATURE		DATE		PARTS LIST	
TOL:	2 PLC	3 PLC	ANGLE	DIN 41612	8/77	intel	
MATERIAL:		CHK BY		TITLE		3005 BOWERS AVE. SANTA CLARA CALIF. 95051	
DFT		DFT		TITLE		SCHEMATIC DIAGRAM - EXP.CHASSIS POWER SUPPLY	
APPD		APPD		FINISH:		SIZE	
APPD		APPD		AUDT BY		DRAWING NO.	
APPD		APPD		CODE: SHEET 3 OF 4		REV	

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ZONE	REV	DESCRIPTION	DFT	CHK	DATE	APPROVED
-	-	SEE SHEET 1	JW	WJ	1/24/78	



FI IS 6AMP FOR 100,120 OPERATION.
FI IS 3AMP FOR 220,240 OPERATION.
NOTES: UNLESS OTHERWISE SPECIFIED:

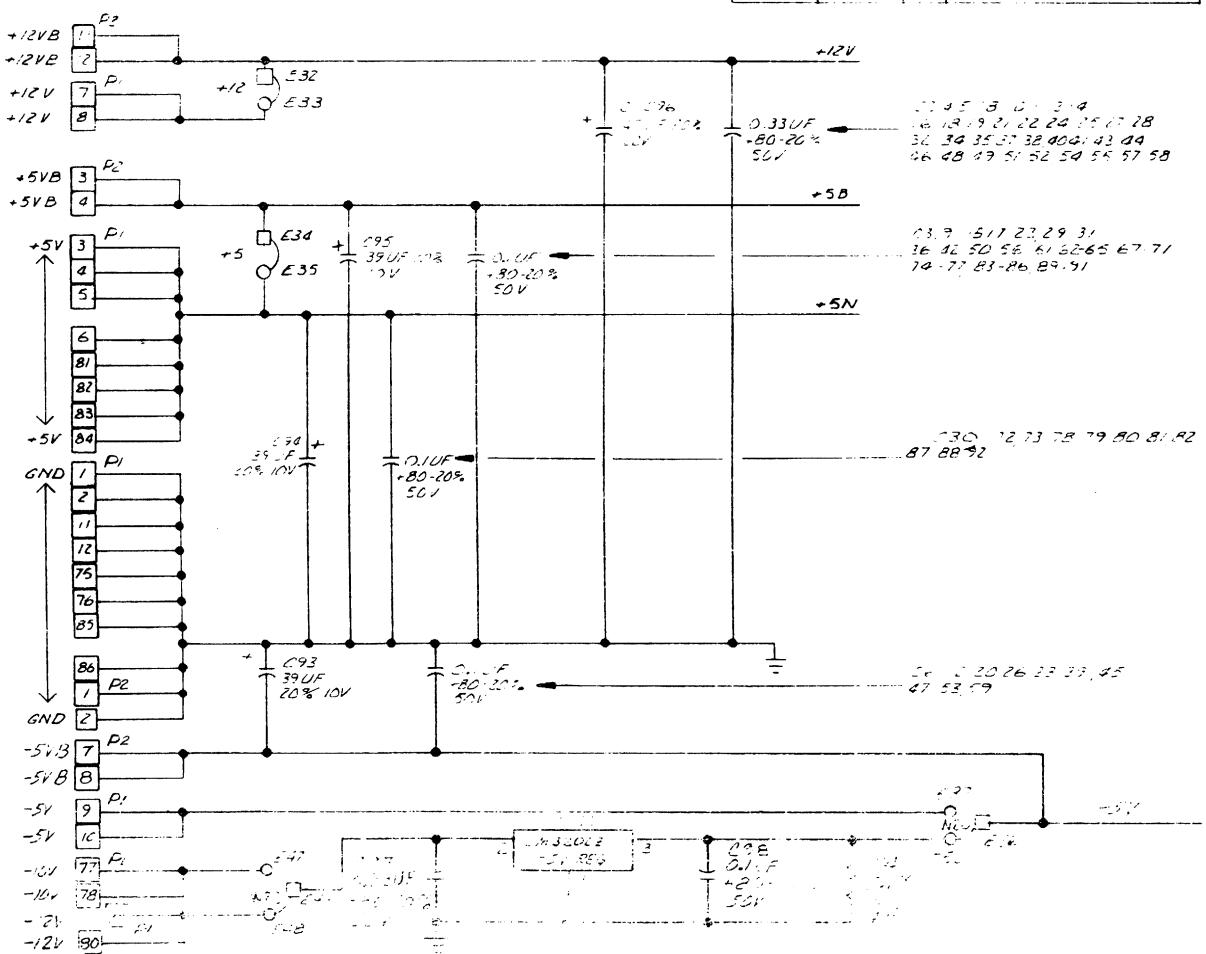


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ADDRESS CHANGER TABLE

JUMPER	FROM	TO	SELECTED BANKS	SELECTED ADDRESS
W1	E1	E9		0-16
W1	E3	E13		SELECT 3 AND 16
W2	E2	E12	0,1	16K-32K
W2	E4	E16	2,3	32K-48K
W3	E1	E10	0,1	32K-48K
W3	E3	E14	2,3	48K-64K
W4	E2	E11	0,1	48K-64K
W4	E4	E15	2,3	64K-80K
				32K-48K-64K
W1	E1	E9		0-16
W2	E2	E12		0-32K
W1	E3	E13		SELECT 3 AND 16
W2	E4	E16	2,3	32K-48K
W3	E1	E10	0,1	32K-48K
W4	E2	E11	0,1	32K-48K
W3	E3	E14	2,3	48K-64K
W4	E4	E15	2,3	64K-80K
W1	E1	E9	0,1	0-16K
W2	E2	E11		AND
W3	E3	E13	2,3	48K-64K
W4	E4	E15	2,3	64K-80K
W1	E1	E10	0,1	16K-48K
W2	E2	E12		
W3	E3	E14	2,3	
W4	E4	E16	2,3	



HIGH ORDER CARD SET
ADDRESS JUMP & TABLE

WIND	DIR	SPD	DIR	SPD	DIR	SPD
WS	S	6			E	62+
WS	S	8			E	88+
WS	S	10			E	100+
WS	S	12			E	112+
WS	S	14			E	120+
WS	S	16			E	128+
WS	S	18			E	136+
WS	S	20			E	144+
WS	S	22			E	152+
WS	S	24			E	160+
WS	S	26			E	168+
WS	S	28			E	176+
WS	S	30			E	184+
WS	S	32			E	192+
WS	S	34			E	200+
WS	S	36			E	208+
WS	S	38			E	216+
WS	S	40			E	224+
WS	S	42			E	232+
WS	S	44			E	240+
WS	S	46			E	248+
WS	S	48			E	256+
WS	S	50			E	264+
WS	S	52			E	272+
WS	S	54			E	280+
WS	S	56			E	288+
WS	S	58			E	296+
WS	S	60			E	304+
WS	S	62			E	312+
WS	S	64			E	320+
WS	S	66			E	328+
WS	S	68			E	336+
WS	S	70			E	344+
WS	S	72			E	352+
WS	S	74			E	360+
WS	S	76			E	368+
WS	S	78			E	376+
WS	S	80			E	384+
WS	S	82			E	392+
WS	S	84			E	400+
WS	S	86			E	408+
WS	S	88			E	416+
WS	S	90			E	424+
WS	S	92			E	432+
WS	S	94			E	440+
WS	S	96			E	448+
WS	S	98			E	456+
WS	S	100			E	464+
WS	S	102			E	472+
WS	S	104			E	480+
WS	S	106			E	488+
WS	S	108			E	496+
WS	S	110			E	504+
WS	S	112			E	512+
WS	S	114			E	520+
WS	S	116			E	528+
WS	S	118			E	536+
WS	S	120			E	544+
WS	S	122			E	552+
WS	S	124			E	560+
WS	S	126			E	568+
WS	S	128			E	576+
WS	S	130			E	584+
WS	S	132			E	592+
WS	S	134			E	600+
WS	S	136			E	608+
WS	S	138			E	616+
WS	S	140			E	624+
WS	S	142			E	632+
WS	S	144			E	640+
WS	S	146			E	648+
WS	S	148			E	656+
WS	S	150			E	664+
WS	S	152			E	672+
WS	S	154			E	680+
WS	S	156			E	688+
WS	S	158			E	696+
WS	S	160			E	704+
WS	S	162			E	712+
WS	S	164			E	720+
WS	S	166			E	728+
WS	S	168			E	736+
WS	S	170			E	744+
WS	S	172			E	752+
WS	S	174			E	760+
WS	S	176			E	768+
WS	S	178			E	776+
WS	S	180			E	784+
WS	S	182			E	792+
WS	S	184			E	800+
WS	S	186			E	808+
WS	S	188			E	816+
WS	S	190			E	824+
WS	S	192			E	832+
WS	S	194			E	840+
WS	S	196			E	848+
WS	S	198			E	856+
WS	S	200			E	864+
WS	S	202			E	872+
WS	S	204			E	880+
WS	S	206			E	888+
WS	S	208			E	896+
WS	S	210			E	904+
WS	S	212			E	912+
WS	S	214			E	920+
WS	S	216			E	928+
WS	S	218			E	936+
WS	S	220			E	944+
WS	S	222			E	952+
WS	S	224			E	960+
WS	S	226			E	968+
WS	S	228			E	976+
WS	S	230			E	984+
WS	S	232			E	992+
WS	S	234			E	1000+

卷之三十一

S.A.F. WEIGHT		CAPACITY	DELT.
25	7	10 K	NONE
000	2174	584	
100	2174	584	
200	2174	584	
300	2174	584	
400	2174	584	
500	2174	584	
600	2174	584	
700	2174	584	
800	2174	584	
900	2174	584	
1000	2174	584	
1100	2174	584	
1200	2174	584	
1300	2174	584	
1400	2174	584	
1500	2174	584	
1600	2174	584	
1700	2174	584	
1800	2174	584	
1900	2174	584	
2000	2174	584	
2100	2174	584	
2200	2174	584	
2300	2174	584	
2400	2174	584	
2500	2174	584	
2600	2174	584	
2700	2174	584	
2800	2174	584	
2900	2174	584	
3000	2174	584	
3100	2174	584	
3200	2174	584	
3300	2174	584	
3400	2174	584	
3500	2174	584	
3600	2174	584	
3700	2174	584	
3800	2174	584	
3900	2174	584	
4000	2174	584	
4100	2174	584	
4200	2174	584	
4300	2174	584	
4400	2174	584	
4500	2174	584	
4600	2174	584	
4700	2174	584	
4800	2174	584	
4900	2174	584	
5000	2174	584	
5100	2174	584	
5200	2174	584	
5300	2174	584	
5400	2174	584	
5500	2174	584	
5600	2174	584	
5700	2174	584	
5800	2174	584	
5900	2174	584	
6000	2174	584	
6100	2174	584	
6200	2174	584	
6300	2174	584	
6400	2174	584	
6500	2174	584	
6600	2174	584	
6700	2174	584	
6800	2174	584	
6900	2174	584	
7000	2174	584	
7100	2174	584	
7200	2174	584	
7300	2174	584	
7400	2174	584	
7500	2174	584	
7600	2174	584	
7700	2174	584	
7800	2174	584	
7900	2174	584	
8000	2174	584	
8100	2174	584	
8200	2174	584	
8300	2174	584	
8400	2174	584	
8500	2174	584	
8600	2174	584	
8700	2174	584	
8800	2174	584	
8900	2174	584	
9000	2174	584	
9100	2174	584	
9200	2174	584	
9300	2174	584	
9400	2174	584	
9500	2174	584	
9600	2174	584	
9700	2174	584	
9800	2174	584	
9900	2174	584	
10000	2174	584	
10100	2174	584	
10200	2174	584	
10300	2174	584	
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10500	2174	584	
10600	2174	584	
10700	2174	584	
10800	2174	584	
10900	2174	584	
11000	2174	584	
11100	2174	584	
11200	2174	584	
11300	2174	584	
11400	2174	584	
11500	2174	584	
11600	2174	584	
11700	2174	584	
11800	2174	584	
11900	2174	584	
12000	2174	584	
12100	2174	584	
12200	2174	584	
12300	2174	584	
12400	2174	584	
12500	2174	584	
12600	2174	584	
12700	2174	584	
12800	2174	584	
12900	2174	584	
13000	2174	584	
13100	2174	584	
13200	2174	584	
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13400	2174	584	
13500	2174	584	
13600	2174	584	
13700	2174	584	
13800	2174	584	
13900	2174	584	
14000	2174	584	
14100	2174	584	
14200	2174	584	
14300	2174	584	
14400	2174	584	
14500	2174	584	
14600	2174	584	
14700	2174	584	
14800	2174	584	
14900	2174	584	
15000	2174	584	
15100	2174	584	
15200	2174	584	
15300	2174	584	
15400	2174	584	
15500	2174	584	
15600	2174	584	
15700	2174	584	
15800	2174	584	
15900	2174	584	
16000	2174	584	
16100	2174	584	
16200	2174	584	
16300	2174	584	
16400	2174	584	
16500	2174	584	
16600	2174	584	
16700	2174	584	
16800	2174	584	
16900	2174	584	
17000	2174	584	
17100	2174	584	
17200	2174	584	
17300	2174	584	
17400	2174	584	
17500	2174	584	
17600	2174	584	
17700	2174	584	
17800	2174	584	
17900	2174	584	
18000	2174	584	
18100	2174	584	
18200	2174	584	
18300	2174	584	
18400	2174	584	
18500	2174	584	
18600	2174	584	
18700	2174	584	
18800	2174	584	
18900	2174	584	
19000	2174	584	
19100	2174	584	
19200	2174	584	
19300	2174	584	
19400	2174	584	
19500	2174	584	
19600	2174	584	
19700	2174	584	
19800	2174	584	
19900	2174	584	
20000	2174	584	
20100	2174	584	
20200	2174	584	
20300	2174	584	
20400	2174	584	
20500	2174	584	
20600	2174	584	
20700	2174	584	
20800	2174	584	
20900	2174	584	
21000	2174	584	
21100	2174	584	
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21300	2174	584	
21400	2174	584	
21500	2174	584	
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21700	2174	584	
21800	2174	584	
21900	2174	584	
22000	2174	584	
22100	2174	584	
22200	2174	584	
22300	2174	584	
22400	2174	584	
22500	2174	584	
22600	2174	584	
22700	2174	584	
22800	2174	584	
22900	2174	584	
23000	2174	584	
23100	2174	584	
23200	2174	584	
23300	2174	584	
23400	2174	584	
23500	2174	584	
23600	2174	584	
23700	2174	584	
23800	2174	584	
23900	2174	584	
24000	2174	584	
24100	2174	584	
24200	2174	584	
24300	2174	584	
24400	2174	584	
24500	2174	584	
24600	2174	584	
24700	2174	584	
24800	2174	584	
24900	2174	584	
25000	2174	584	
25100	2174	584	
25200	2174	584	
25300	2174	584	
25400	2174	584	
25500	2174	584	
25600	2174	584	
25700	2174	584	
25800	2174	584	
25900	2174	584	
26000	2174	584	
26100	2174	584	
26200	2174	584	
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26400	2174	584	
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26700	2174	584	
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26900	2174	584	
27000	2174	584	
27100	2174	584	
27200	2174	584	
27300	2174	584	
27400	2174	584	
27500	2174	584	
27600	2174	584	
27700	2174	584	
27800	2174	584	
27900	2174	584	
28000	2174	584	
28100	2174	584	
28200	2174	584	
28300	2174	584	
28400	2174	584	
28500	2174	584	
28600	2174	584	
28700	2174	584	
28800	2174	584	
28900	2174	584	
29000	2174	584	
29100	2174	584	
29200	2174	584	
29300	2174	584	
29400	2174	584	
29500	2174	584	
29600	2174	584	
29700	2174	584	
29800	2174	584	
29900	2174	584	
30000	2174	584	

NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES IN OHMS 1/2W.
 2. ALL CAPACITOR VALUES .001F.
 3. ALL VARY DEG. OF FREQUENCY PACE.

DEVICE TABLE

	GND	1121	155	-	RET		UNUSEO	OUT PUT PLS
70386	7	-	-	-	445, 454		- B, A25-B, A22-B, A20-B, A21-B, A12, A15-6	
70387	7	-	-	-	450, 457	490	422-11, A90-6-B	
70388	7	-	-	-	451			
70389	7	-	-	-	452, 453			
70390	7	-	-	-	453, 454			
70391	8	-	16	-	454, 455			
70392	7	-	-	13	A85, A56			
70393	0	-	-	20	467, A65			
70394	8	-	-	10	4705		A20-9, 11	
70395	7	-	14	-	455			
70396	7	-	16	14	A44 A60 A61 A62 A63 A64 A66 -39		A60-B, A62-B, 11	
70397	7	-	14	10	-43 A56 A65 A72 A100		A43-B, A56-B, 2, 2, 45, 810 A72-2, 12, A104-B	
70398	7	-	10	-	A88		A88-B	
70399	7	-	14	-	A71, A74 A, 00			
70400	7	-	10	-	A07 A48 A70 A102		A70-B	
82226	8	-	-	16	A83, A84, A95-A98			
30004	8	-	16	16	A58, A76 A78 A80 A82 A93		A58-B, A76-B, 9, 13 A78-B, 7, A80-B, 6, 7, 11, 13	
32005	8	-	--	16	A65 A79			
32222	7	-	22	-	A69			
32223	14	-	28	-	A81			
701570	7	-	14	-	A101 A103			
2117	16	8	9	-	1 A2-A10, A11-A19, A22-A30 A31-A39			
309	16	8	9	-	1 A2-A10, A11-A19, A22-A30 A31-A39			

TIME-TIP CHART

FROM	TO	FUNCTION
TSO	L1	SACK
T400	L2	SACK
T400	L3	RAS TE
T400	L4	BUSY TE
T400	L5	CAS TE
T520	L6	SQW WP GO

REFERENCE DESIGNATIONS

HIGHEST USED	NO. USED
A107	
C99	
CR1	
E51	
L6	
Q1	
R41	R38, 39
R.P2	
T600	
W21	{ REFER { TO TABLE

			061972	CC-155-79 S-1 7-6-79		
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			DIMENSIONS ARE IN MM'S. CLEARANCES		DES	1202 NO. MATILDA AVENUE SUNNYVALE CALIF 94086
A 16571-32 172-17 CCC REV E NO 1 REL DATE 10/01/79 MODEL NO. USED ON			ACTION		SUPPLY	INTEL CORP.
REVISIONS			USED ON		PRINT	SIZE DRAWING NO.
					DO NOT SCALE Dwg	SCALE: 1:1
						WHEEL: OF P