

## **VS-85/90/100 Computer Systems Schematics Manual**

### **COMPANY PROPRIETARY STATEMENT**

**This document is the property of Wang Laboratories, Inc. All information contained herein is considered Company Proprietary, and its use is restricted solely to assisting you in servicing Wang products. Neither this document nor its contents may be disclosed, copied, revealed, or used in whole or in part for any other purpose without the prior written permission of Wang Laboratories, Inc. This document must be returned upon request of Wang Laboratories, Inc.**

## PREFACE

This document contains schematics for the Wang VS-85/90/100 Computer Systems. It is used with the VS-85/90/100 Standard Maintenance Manuals (document nos. 741-1462 and 729-0871-A) and is organized in accordance with the approved STD outline established at the Field/Home Office Publications meetings conducted on September 14th and 15th, 1982. The scope of these manuals reflects the type of maintenance philosophy selected for this product (swap unit, printed circuit assembly, chip level or any combination thereof).

The purpose of the Standard Maintenance Manual and this Schematics Manual is to provide the Wang-trained Customer Engineer (CE) with instructions to operate, troubleshoot and repair the VS-85/90/100 Computer Systems. This manual will be updated on a regular schedule.

### First Edition (August 1984)

The material in this document may only be used for the purpose stated in the Preface above. Updates and/or changes to this document will be published as Publications Update Bulletins (PUBs) or subsequent editions.

© Copyright WANG Labs., Inc. 1985

**CUSTOMER ENGINEERING**

# **PUBLICATION UPDATE BULLETIN**

DATE: 01/03/85

This PUB: 741-1462-1

Class Code: 6100

Base Document: 741-1462

Previous Notice(s):

---

**REASON FOR CHANGE:**

Addition of VS-85-H/85-S schematics and assembly drawings.

---

**INSTRUCTIONS:**

Remove pages and insert attached pages as follows:

	REMOVE	INSERT
1.	Old Front Cover	New Front Cover
2.	Old Title Page	New Title Page
3.	ii	ii
4.	iii	iii
5.		Z11
6.		KK11
7.		QQ1-QQ4
8.		RR1-RR11
9.		SS1-SS8
10.		TT1-TT9
11.		UU1-UU8
12.		VV1-VV8
13.		WW1-WW8

This page is to be used as a permanent record of revisions; place it directly following the title page.

**WANG**

LABORATORIES, INC.

ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851 TEL (617) 459 5000 TWX 710 343 6769 TELEX 94 7421

PRINTED IN U.S.A.

## **COMPANY PROPRIETARY STATEMENT**

**This document is the property of Wang Laboratories, Inc. All information contained herein is considered Company Proprietary, and its use is restricted solely to assisting you in servicing Wang products. Neither this document nor its contents may be disclosed, copied, revealed, or used in whole or in part for any other purpose without the prior written permission of Wang Laboratories, Inc. This document must be returned upon request of Wang Laboratories, Inc.**

# PUBLICATION UPDATE BULLETIN

DATE: 10/04/85

This PUB affects: 741-1462

Class Code: 6100

Previous Notice(s): 741-1462-1

---

**REASON FOR CHANGE:**

This PUB adds the VS 22V36 Async Device Controller schematics to the manual.

---

**INSTRUCTIONS:**

Remove and insert attached pages and/or microfiche as follows:

	REMOVE PAGES	INSERT PAGES
1.	iii	iii
2.		XX1 thru XX10
3.		YY1 thru YY3
4.		ZZ1 thru ZZ4
5.		
6.		
7.		
8.		
9.		
10.		

	REMOVE FICHE	INSERT FICHE
1.	1 thru 6	1 thru 7
2.		
3.		
4.		

This page constitutes a permanent record of revisions; place it directly following title page.



LABORATORIES INC

ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851. TEL (617) 459 5000. TWX 710 343 6769. TELEX 94 7421

### **COMPANY PROPRIETARY STATEMENT**

This document is the property of Wang Laboratories, Inc. All information contained herein is considered Company Proprietary, and its use is restricted solely to assisting you in servicing Wang products. Neither this document nor its contents may be disclosed, copied, revealed, or used in whole or in part for any other purpose without the prior written permission of Wang Laboratories, Inc. This document must be returned upon request of Wang Laboratories, Inc.

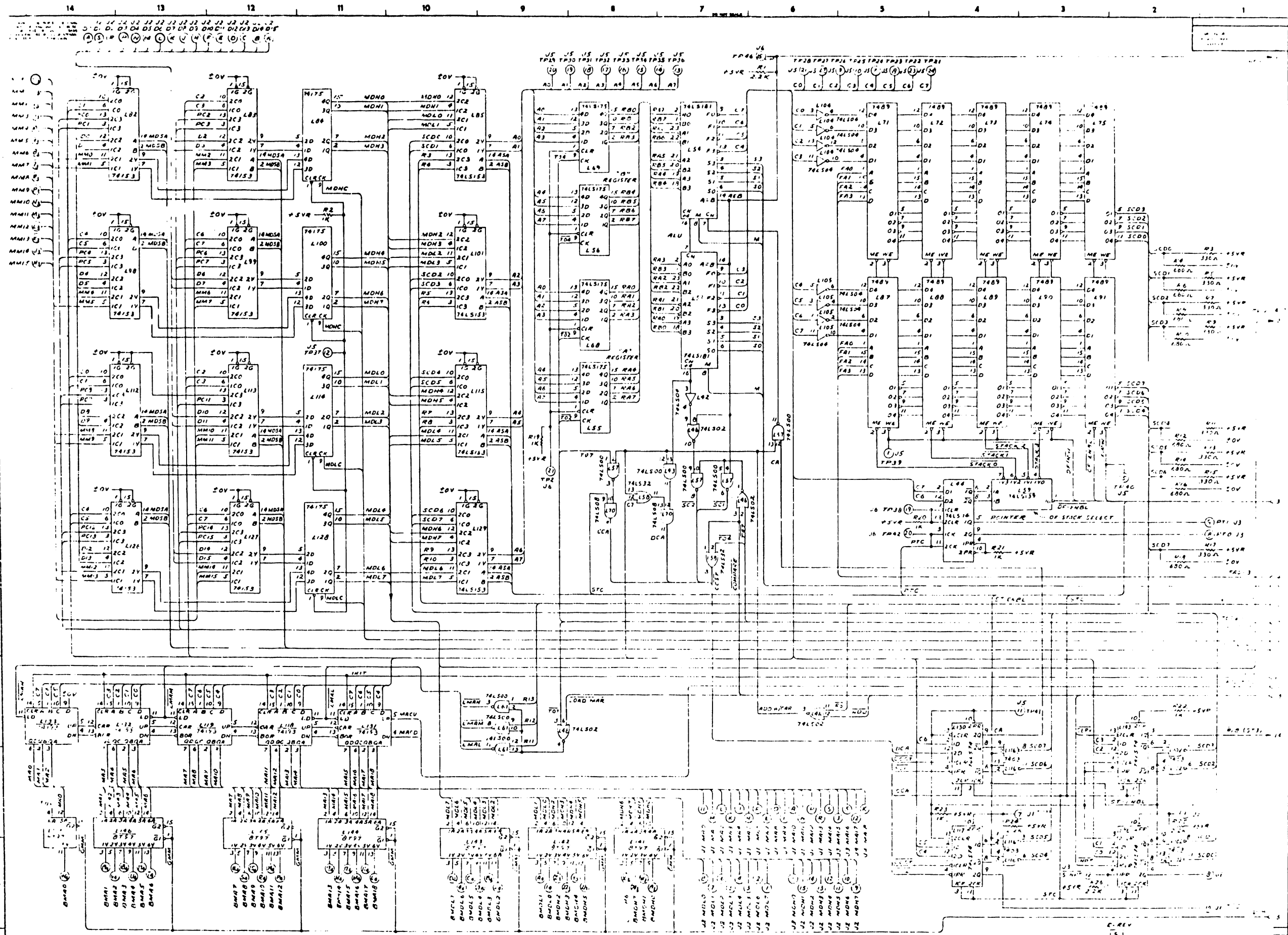
© Copyright 1985, Wang Laboratories, Inc.

**COMPANY CONFIDENTIAL**

## TABLE OF CONTENTS

DRAWING NO	TITLE	VS-85	VS-85-H	VS-90/100	PAGE NO
210-7110-U	IOP Motherboard	X	X	X	A1-A4
210-7114	Large Disk Adapter	X	X	X	B1-B4
210-7216-A	Serial Adapter	X	X	X	C1-C6
210-7217-A	Tape Adapter (Kennedy)	X	X	X	D1-D7
210-7427-A/-1A	TC Adapter (1-2-Port) Dghtrbd	X	X	X	E1-E8
210-7600	A-Bus	X	---	X	F1-F5
210-7601	B-Bus	X	---	X	Gi-G7
210-7602	Control Memory	X	---	X	H1-H4
210-7604	Cache Memory (Early Version)	---	---	X	J1-J6
210-7605	System Bus Control	X	---	X	K1-K6
210-7608	CPU Motherboard	---	---	X	L1-L3
210-7609	I/O Motherboard	---	---	X	M1-M2
210-7610	Minidisk Controller	X	X	X	N1-N2
210-7611	Bus Adapter (Early Version)	---	---	X	P1-P6
210-7612	Power Supply Board (Early Ver.)	---	---	X	Q1-Q4
210-7613	Front Panel Board	---	---	X	R1-R2
210-7614	Maintenance Panel	X	X	X	S1-S2
210-7706	+5 Volt Indicator	X	X	---	T1-T1
210-7800	Tape Adapter (TELEX)	X	X	X	U1-U6
210-7803	1 MB Main Memory	X	X	X	V1-V5
210-7812	Power Supply Board (New Version)	---	---	X	W1-W4
210-7826	TC Adapter (1-Port Motherboard)	X	X	X	X1-X11
210-7911	Bus Adapter (Later Version)	---	---	X	Y1-Y6
210-8203	2 MB Main Memory	X	X	---	Z1-Z11
210-8214	SW04 (Disk Drive Switch)	X	X	X	AA1-AA5
210-8230	Memory Controller I	X	X	---	BB1-BB7
210-8231	Memory Controller II (32-Bit SBC)	X	X	---	CC1-CC5
210-8250	Power Controller	X	---	---	DD1-DD4
210-8311	Bus Adapter (New Version)	---	---	X	EE1-EE6
210-8318	Very Large Disk Adapter (1-Port)	X	X	X	FF1-FF6
210-8319	Very Large Disk Adapter (2-Port)	X	X	X	GG1-GG6
210-8320	Very Large Disk Adapter (3-Port)	X	X	X	HH1-HH6
210-8321	Very Large Disk Adapter (4-Port)	X	X	X	JJ1-JJ6
210-8369	MDL 928 Daughterboard	X	X	X	KK1-KK11
210-8508	CPU/I/O Motherboard	X	X	---	LL1-LL3
210-8513	Display Panel	X	X	---	MM1-MM1
210-8804	Cache Memory (New Version)	X	---	X	NN1-NN6
7608-900	Interconnection Diagram	---	---	X	PP1-PP2
210-8198	Power Sequencer	X	X	---	QQ1-QQ4
210-8204-A	Control Memory	---	X	---	RR1-RR11
210-8568	A Bus	---	X	---	SS1-SS8
210-8569-A	B Bus	---	X	---	TT1-TT9
210-8570-A	Cache	---	X	---	UU1-UU8
210-8571-A	System Bus Controller	---	X	---	VV1-VV8
210-8572	Bus Adapter	---	X	---	WW1-WW8
210-8168	Async Device Controller	X	X	X	XX1-XX10
210-8323	Line Driver and Receiver Motherbd	X	X	X	YY1-YY3
210-8324	Line Driver and Receiver Dghtrbd	X	X	X	ZZ1-ZZ4

The following electrical schematics are the latest revisions available at the time of publication of this manual. Periodically, as changes, additions, or deletions occur, updates to this manual will be made available to field personnel.

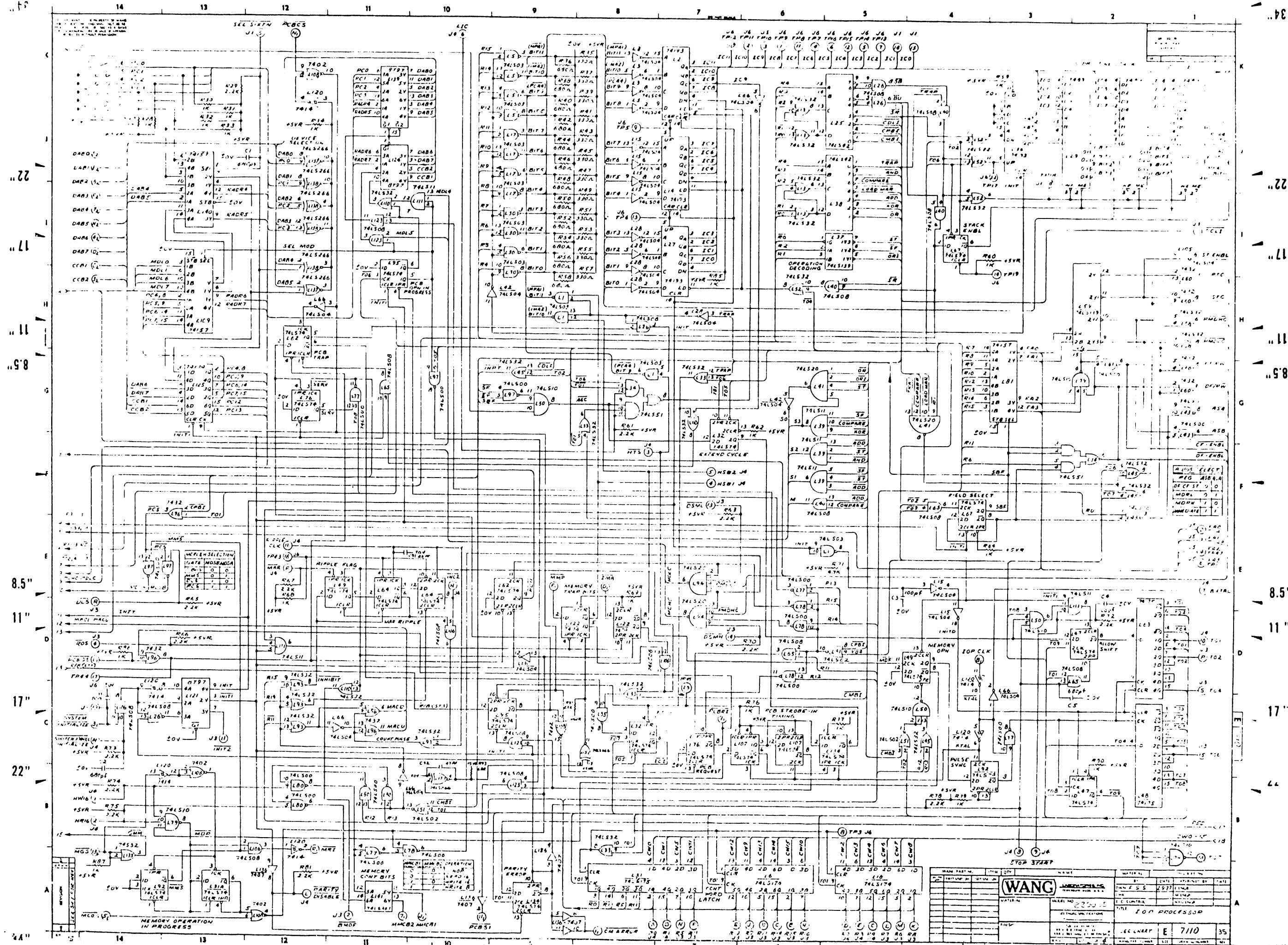


Module	Component	Value	Notes
MDL0	Relay	74LS00	Decoder
MDL1	Relay	74LS00	Decoder
MDL2	Relay	74LS00	Decoder
MDL3	Relay	74LS00	Decoder
MDL4	Relay	74LS00	Decoder
MDL5	Relay	74LS00	Decoder
MDL6	Relay	74LS00	Decoder
MDL7	Relay	74LS00	Decoder
MDN0	Relay	74LS00	Decoder
MDN1	Relay	74LS00	Decoder
MDN2	Relay	74LS00	Decoder
MDN3	Relay	74LS00	Decoder
MDN4	Relay	74LS00	Decoder
MDN5	Relay	74LS00	Decoder
MDN6	Relay	74LS00	Decoder
MDN7	Relay	74LS00	Decoder
SCOD0	Relay	74LS00	Decoder
SCOD1	Relay	74LS00	Decoder
SCOD2	Relay	74LS00	Decoder
SCOD3	Relay	74LS00	Decoder
SCOD4	Relay	74LS00	Decoder
SCOD5	Relay	74LS00	Decoder
SCOD6	Relay	74LS00	Decoder
SCOD7	Relay	74LS00	Decoder

(WANG)

SEE CHART E 7110





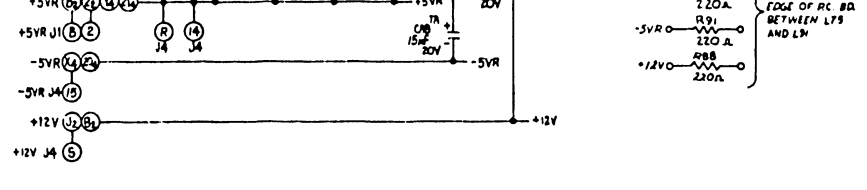
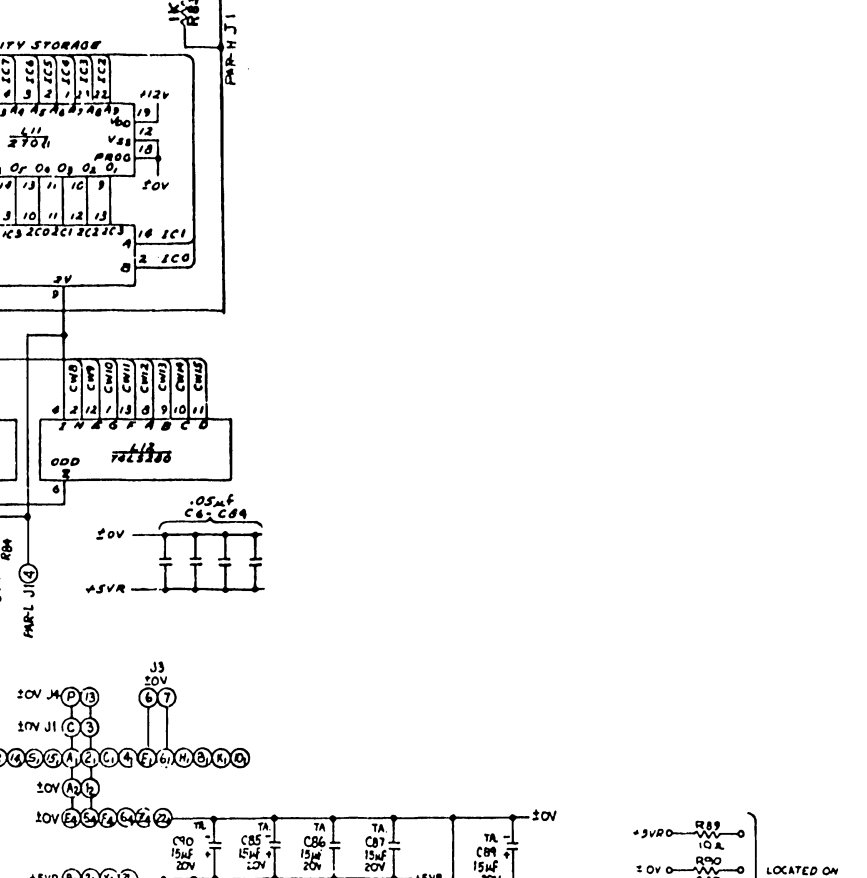
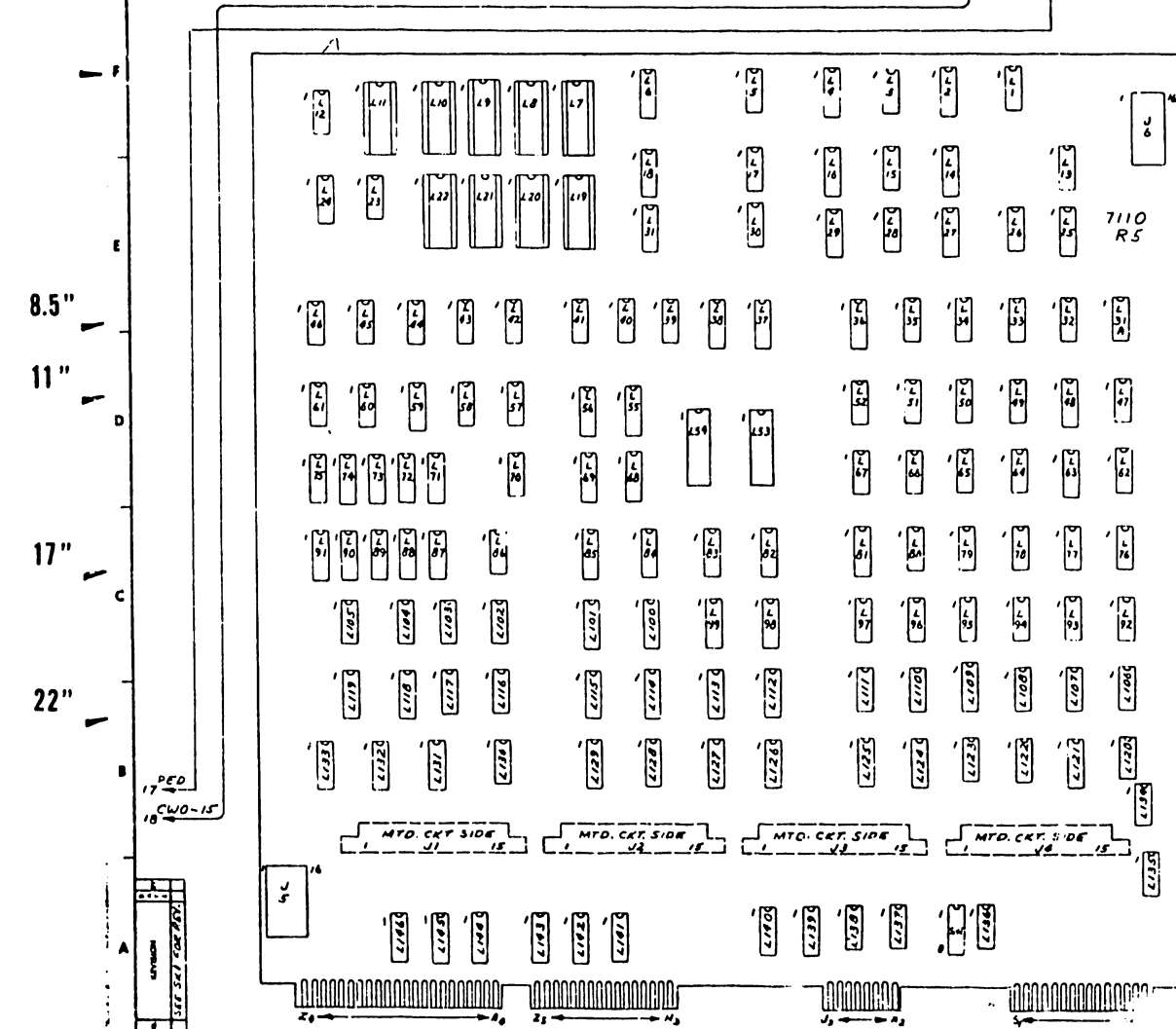
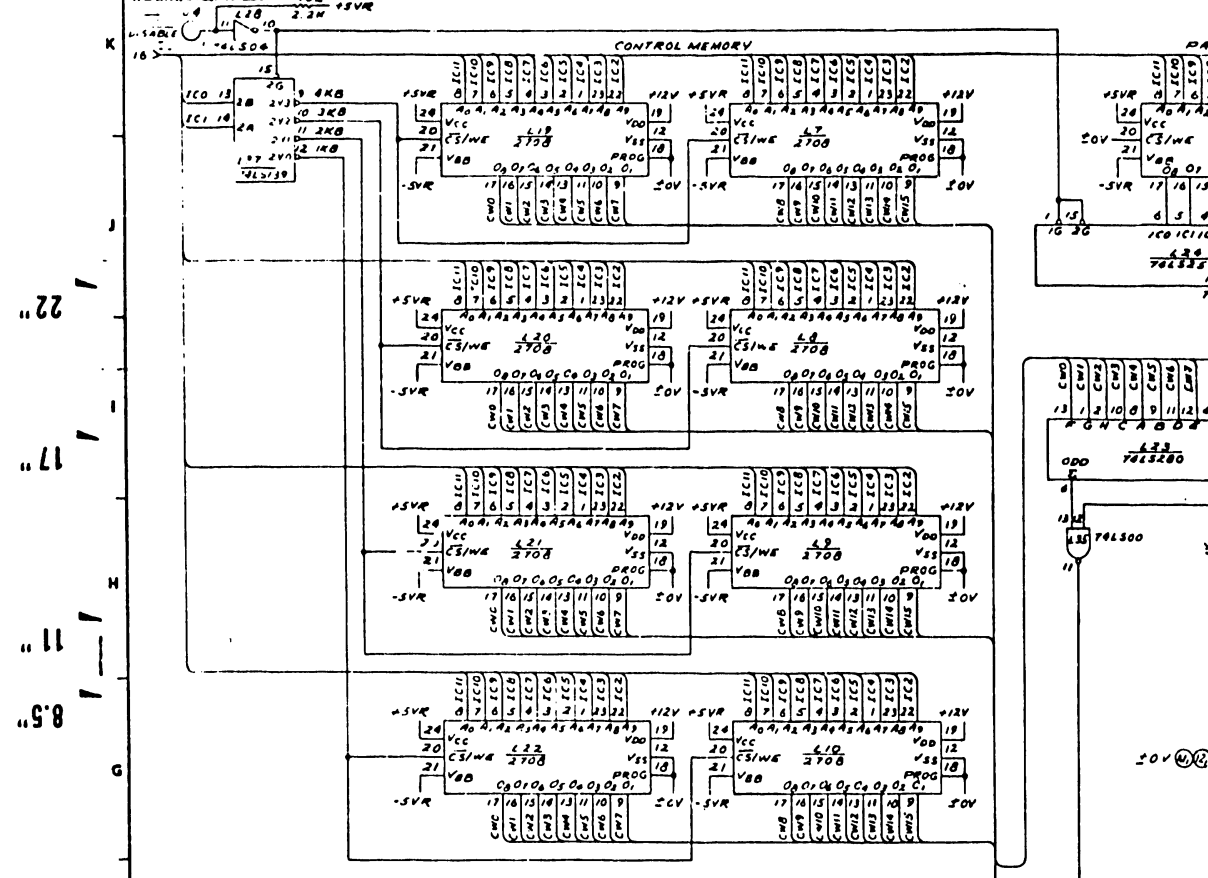
The drawings and the data herein are the property of Wang Computer Systems, Inc. and are to be used only for the specific purpose for which they were prepared. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Wang Computer Systems, Inc.

VARIATION CHART

210 + 209 + 377 OR 378

MODEL	209	210	L7	L8	L9	L10	L11	L19	L20	L21	L22	L33	L54
2200VS PFR	7110	7110A		378-2113-R3	378-2111-R3	378-2109-R3	378-2116-R3		378-2112-R3	378-2110-R3	378-2108-R3	376-0219	376-0219
2200VS PFR	7110	7110B			378-2116-R3	378-2116-R3	378-2117			378-2115	378-2115	376-0219	376-0219
2200VS PFR	7110	7110C			378-2118-R3	378-2118-R3	378-2122-R3			378-2120-R3	378-2118-R3	376-0219	376-0219
2200VS PFR	7110	7110D			378-2172	378-2172	378-2173			378-2171	378-2171	376-0219	376-0219
2200VS PFR	7110	7110E		378-3046-R5	378-2261-R5	378-2269-R5	378-2262-R5		378-3045-R5	378-2260-R5	378-2258-R5	376-0219	376-0219
2200VS PFR	7110	7110F			378-2291	378-2289	378-2292			378-2290	378-2288	376-0219	376-0219
2200VS PFR	7110	7110G			378-2512-R2	378-2510-R2	378-2513-R2			378-2511-R2	378-2509-R2	376-0219	376-0219
2200VS PFR	7110	7110H				378-2319	378-2320				378-2318	376-0219	376-0219
2200VS PFR	7110	7110J				378-2322	378-2323				378-2321	376-0219	376-0219
2200VS PFR	7110	7110K			378-2327	378-2326	378-2328			378-2326	378-2324	376-0219	376-0219
2200VS PFR	7110	7110L			378-2332	378-2330	378-2333			378-2331	378-2329	376-0219	376-0219
2200VS PFR	7110	7110M			378-2337	378-2335	378-2336			378-2336	378-2334	376-0219	376-0219
2200VS PFR	7110	7110N				378-2526	378-2527				378-2525	376-0219	376-0219
2200VS PFR	7110	7110P			378-2337	378-2335	378-2672			378-2691	378-2694	376-0219	376-0219
2200VS PFR	7110	7110R		378-2550	378-2548	378-2546	378-2551		378-2549	378-2547	378-2545	376-0219	376-0219
2200VS PFR	7110	7110S			378-2576-R2	378-2574-R2	378-2577-R2			378-2575-R2	378-2573-R2	376-0219	376-0219
2200VS PFR	7110	7110T			378-2581-R5	378-2579-R5	378-2582-R5			378-2580-R5	378-2578-R5	376-0219	376-0219
2200VS PFR	7110	7110U		378-2588-R3	378-2586-R3	378-2588-R3	378-3017-R3		378-2587-R3	378-2585-R3	378-2583-R3	376-0219	376-0219
2200VS PFR	7110	7110V			378-3043	378-3043	378-3044			378-3042	378-3040	376-0219	376-0219
2200VS PFR	7110	7110W		378-3051	378-3049	378-3044	378-3046		378-3082	378-3050	378-3025	376-0219	376-0219
2200VS PFR	7110	7110X	378-3061	378-3059	378-3057	378-3055	378-3062	378-3060	378-3058	378-3056	378-3054	376-0219	376-0219
2200VS PFR	7110	7110AA	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	376-0219	376-0219
2200VS PFR	7110	7110AB	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	376-0219	376-0219
2200VS PFR	7110	7110AC			378-3137	378-3135	378-3138			378-3136	378-3134	376-0219	376-0219
2200VS PFR	7110	7110AD			378-3142	378-3140	378-3143			378-3141	378-3139	376-0219	376-0219
2200VS PFR	7110	7110AF	378-3160	378-3158	378-3156	378-3154	378-3161	378-3159	378-3157	378-3155	378-3153	376-0219	376-0219
2200VS PFR	7110	7110AG		378-3124	378-3122	378-3120	378-3125		378-3123	378-3121	378-3119	376-0219	376-0219
2200VS PFR	7110	7110AH			378-3124-R1	378-3122-R1	378-3123-R1			378-3121-R1	378-3119-R1	376-0219	376-0219
2200VS PFR	7110	7110AJ			378-3124-R1	378-3122-R1	378-3123-R1			378-3121-R1	378-3119-R1	376-0219	376-0219
2200VS PFR	7110	7110AK			378-3124-R1	378-3122-R1	378-3123-R1			378-3121-R1	378-3119-R1	376-0219	376-0219
2200VS PFR	7110	7110AL		378-3124-R1	378-3122-R1	378-3123-R1	378-3123-R1		378-3121-R1	378-3119-R1	378-3117-R1	376-0219	376-0219
2200VS PFR	7110	7110AM			378-3124-R1	378-3122-R1	378-3123-R1		378-3121-R1	378-3119-R1	378-3117-R1	376-0219	376-0219

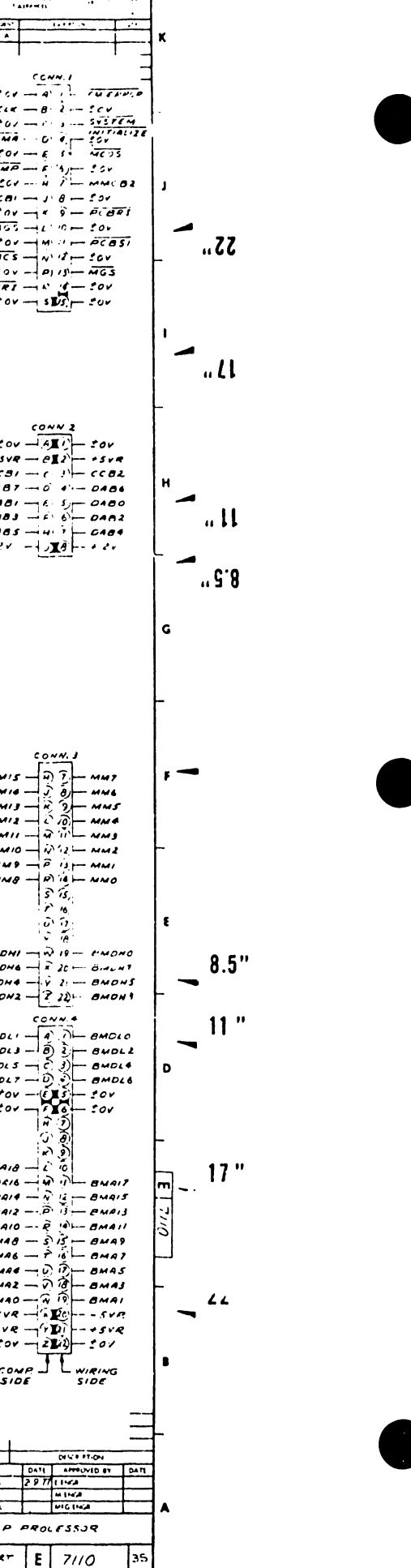
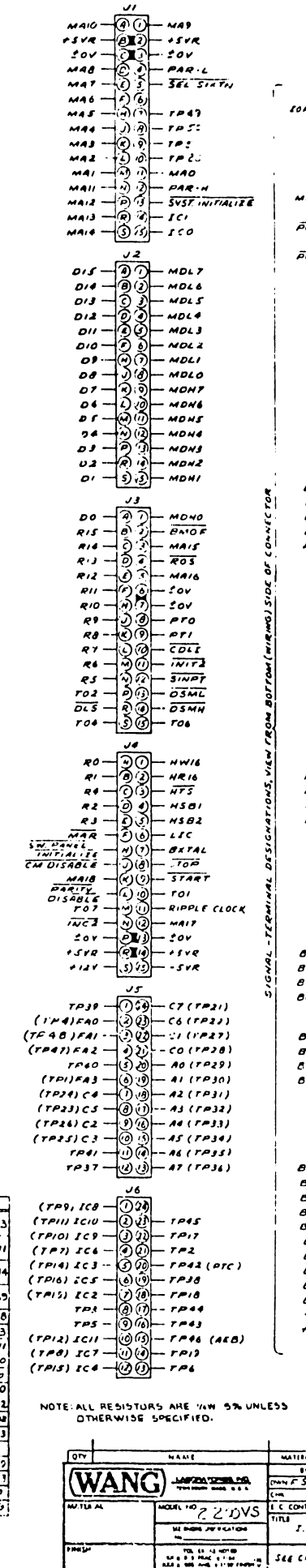
<b>WANG</b> COMPUTER SYSTEMS, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. 2200VS		FOR P. C. DANIEL	11-17-71	E. L. SAGE	
TITLE		I.O.P. PROCESSOR			
DRAWN BY		SEE CHART			
CHECKED BY		E 7110			
DATE		11-17-71			



IC LOCATION	TYPE	W.L. NO	TERM FOR 20V	TERM FOR VCC +5V	TERM FOR -5V
L1, 5, 17, 30	74LS03	376-0224	7	14	
L2, 14, 27, 110, 131, 133, 36	74LS13	376-0053	8	16	
L3, 15, 28, 42, 66, 104, 105	74LS04	376-0130	7	18	
L4, 11, 29, 71, 75, 87, 91	7489	376-0113	8	16	
L6, 18	74LS74	376-0159	8	16	
L7, 11, 19, 22	SEE CHART		12	24	
L12, 23	74LS280	376-3242	7	14	
L13, 31, 45, 52, 58, 93, 110	74LS32	376-0211	7	14	
L24	74LS253	376-0233	8	16	
L25, 38	74LS47	376-0212	8	16	
L26, 40, 45, 70, 106, 123	74LS08	376-0153	7	14	
L31, 55, 56, 60, 69	74LS175	376-0160	8	16	
L31A, 32, 44, 49, 49, 62, 64, 67, 76, 86, 92, 95, 103, 107, 111, 130, 134	74LS74	376-0155	7	14	
L34	74LS57	376-0213	7	14	
L35, 43, 57, 61, 77, 78, 80, 97	74LS70	376-0207	7	14	
L37, 59	74LS139	376-0226	8	16	
L39, 117	74LS11	376-0225	7	14	
L41, 94	74LS20	376-0210	7	14	
L46, 51	74LS02	376-0130	7	14	
L48, 65, 84, 100, 114, 128	74LS175	376-0160	8	16	
L50, 79	74LS10	376-0209	7	14	
L53, 54	SEE CHART		12	24	
L60, 96	74LS32	376-0233	7	14	
L81, 109, 140	74LS7	376-0082	8	16	
L82, 93, 99, 99, 112, 113, 126, 127	74LS13	376-0053	8	16	
L85, 101, 115, 129	74LS175	376-0160	8	16	
L102, 116	74LS10	376-0209	7	14	
L108	7402	376-0044	7	14	
L120	7414	376-0139	7	14	
L121, 124, 139, 141-146	8797	376-0189	8	16	
L122	7476	376-0086	7	14	
L123	74174	376-0098	8	16	
L134	7407	376-0056	7	14	
L137, 138	74LS244	376-0188	7	14	
L135	74LS32	376-0233	7	14	

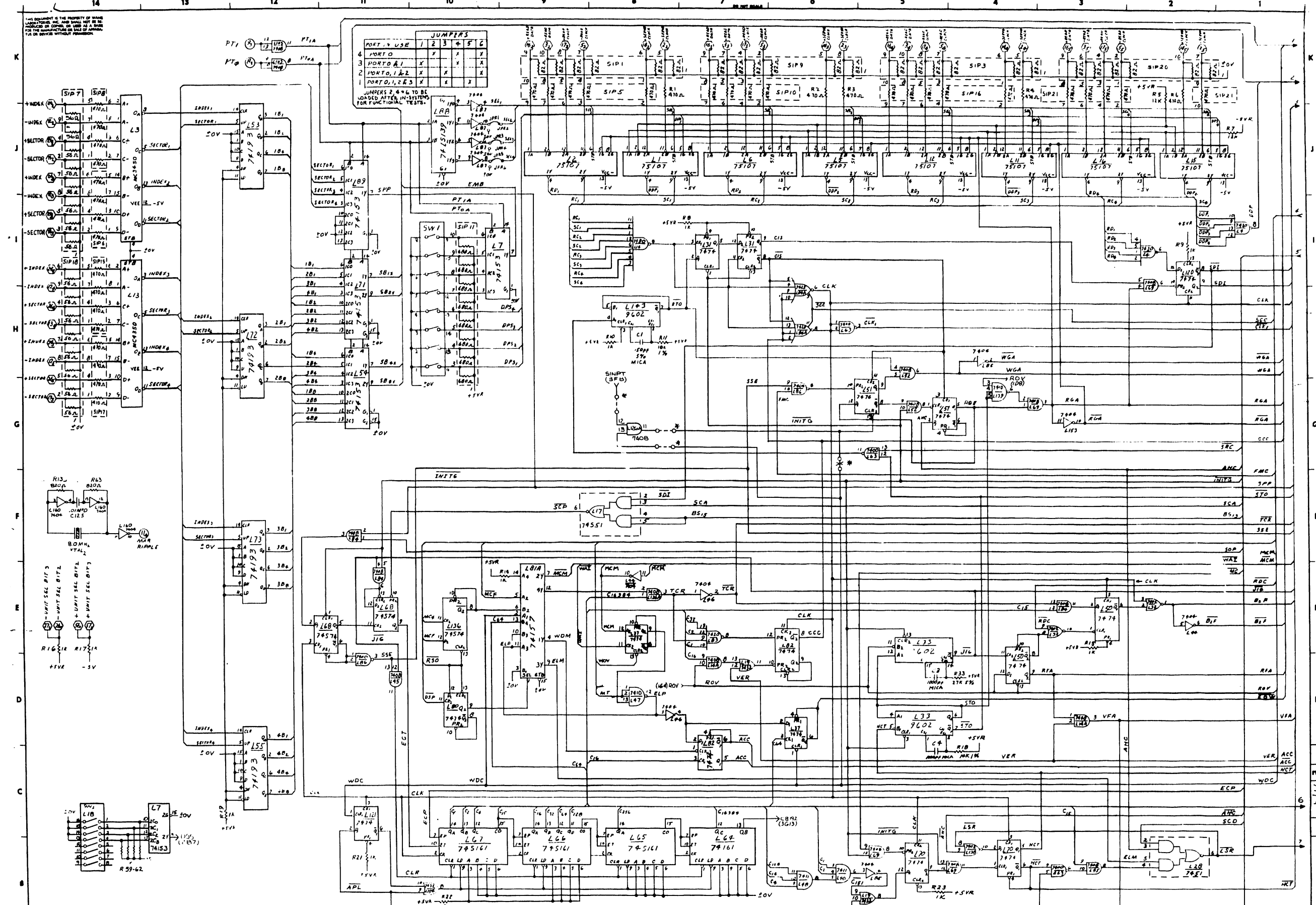
TYPE	IC LOCATION	SPARES
74LS04	L3	2
	L42	3
	L104	2
	L105	1
74LS32	L110	1
74LS08	L70	2
74LS74	L31A	1
74LS00	L35	2
74LS02	L51	1
74LS32	L135	3
8797	L121	2
7407	L136	1

COMPONENT	W.L. NO.
R1, 14, 26, 29, 41, 43, 65, 67, 70, 72, 75, 76, 81, 92, 94	330-3023
R2, 19, 23, 27, 28, 30, 38, 59, 60, 62, 64, 68, 69, 74, 77, 79, 80, 83, 87	330-3011
R3, 5, 7, 11, 13, 17, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57	330-2034
R4, 6, 10, 12, 14, 16, 18, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58	330-2065
R7	330-3048
R8, 59, 91	330-2023
R90	330-1811
C1, 2, 5	300-1480
C3, 4	300-1180
C4-8	300-1900
C85-90	300-4472
C91, C93	300-8048
8W1	325-1503
J5, 6	376-9C16
J1-9 COMM.	350-0000
L7-11, 19-22	376-9007
C92	300-1047
R93	330-3025



NOTE: ALL RESISTORS ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

DATE	NAME	MATERIAL	DESCRIPTION
DATE	APPROVED BY	DATE	DATE
<b>WANG</b>			
TOP PROFESSOR			
TITLE			
E 7110 35			

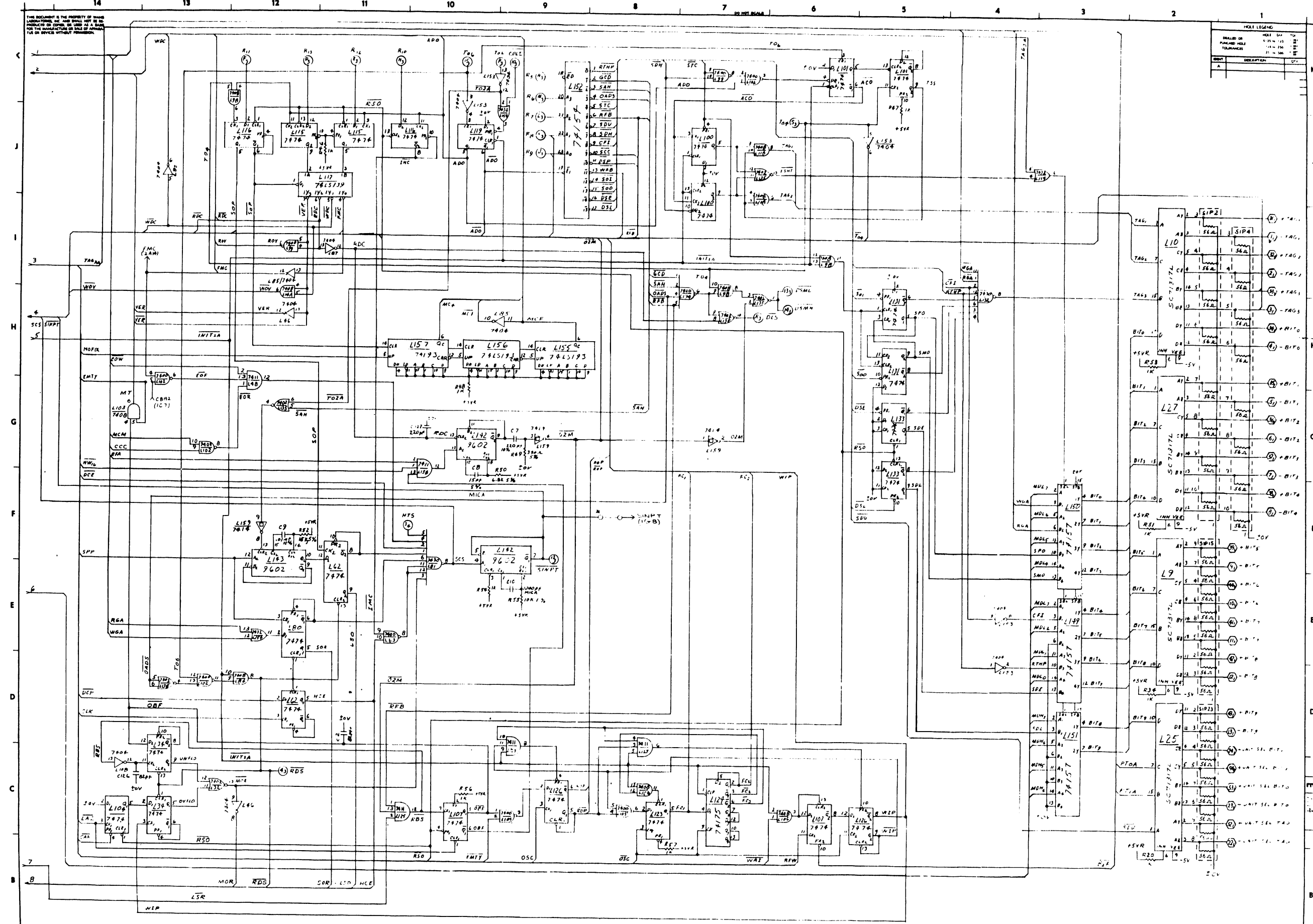


\* CUT ETCH AND ADDED PER ECO# 27150

REV	DATE	DESCRIPTION
1	11/17/77	REVISED PER ECO# 27150
2	11/17/77	REVISED PER ECO# 27150
3	11/17/77	REVISED PER ECO# 27150
4	11/17/77	REVISED PER ECO# 27150
5	11/17/77	REVISED PER ECO# 27150
6	11/17/77	REVISED PER ECO# 27150
7	11/17/77	REVISED PER ECO# 27150
8	11/17/77	REVISED PER ECO# 27150
9	11/17/77	REVISED PER ECO# 27150
10	11/17/77	REVISED PER ECO# 27150
11	11/17/77	REVISED PER ECO# 27150
12	11/17/77	REVISED PER ECO# 27150
13	11/17/77	REVISED PER ECO# 27150
14	11/17/77	REVISED PER ECO# 27150

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
74LS13			74LS13		INVERTER
74LS15			74LS15		INVERTER
74LS16			74LS16		INVERTER
74LS17			74LS17		INVERTER
74LS19			74LS19		INVERTER
74LS20			74LS20		AND
74LS21			74LS21		AND
74LS22			74LS22		AND
74LS23			74LS23		AND
74LS24			74LS24		AND
74LS25			74LS25		AND
74LS26			74LS26		AND
74LS27			74LS27		AND
74LS28			74LS28		AND
74LS29			74LS29		AND
74LS30			74LS30		AND
74LS31			74LS31		AND
74LS32			74LS32		AND
74LS33			74LS33		AND
74LS34			74LS34		AND
74LS35			74LS35		AND
74LS36			74LS36		AND
74LS37			74LS37		AND
74LS38			74LS38		AND
74LS39			74LS39		AND
74LS40			74LS40		AND
74LS41			74LS41		AND
74LS42			74LS42		AND
74LS43			74LS43		AND
74LS44			74LS44		AND
74LS45			74LS45		AND
74LS46			74LS46		AND
74LS47			74LS47		AND
74LS48			74LS48		AND
74LS49			74LS49		AND
74LS50			74LS50		AND
74LS51			74LS51		AND
74LS52			74LS52		AND
74LS53			74LS53		AND
74LS54			74LS54		AND
74LS55			74LS55		AND
74LS56			74LS56		AND
74LS57			74LS57		AND
74LS58			74LS58		AND
74LS59			74LS59		AND
74LS60			74LS60		AND
74LS61			74LS61		AND
74LS62			74LS62		AND
74LS63			74LS63		AND
74LS64			74LS64		AND
74LS65			74LS65		AND
74LS66			74LS66		AND
74LS67			74LS67		AND
74LS68			74LS68		AND
74LS69			74LS69		AND
74LS70			74LS70		AND
74LS71			74LS71		AND
74LS72			74LS72		AND
74LS73			74LS73		AND
74LS74			74LS74		AND
74LS75			74LS75		AND
74LS76			74LS76		AND
74LS77			74LS77		AND
74LS78			74LS78		AND
74LS79			74LS79		AND
74LS80			74LS80		AND
74LS81			74LS81		AND
74LS82			74LS82		AND
74LS83			74LS83		AND
74LS84			74LS84		AND
74LS85			74LS85		AND
74LS86			74LS86		AND
74LS87			74LS87		AND
74LS88			74LS88		AND
74LS89			74LS89		AND
74LS90			74LS90		AND
74LS91			74LS91		AND
74LS92			74LS92		AND
74LS93			74LS93		AND
74LS94			74LS94		AND
74LS95			74LS95		AND
74LS96			74LS96		AND
74LS97			74LS97		AND
74LS98			74LS98		AND
74LS99			74LS99		AND
74LS100			74LS100		AND





HEAT LEGEND

SYMBOL	DESCRIPTION	QTY
...	...	...

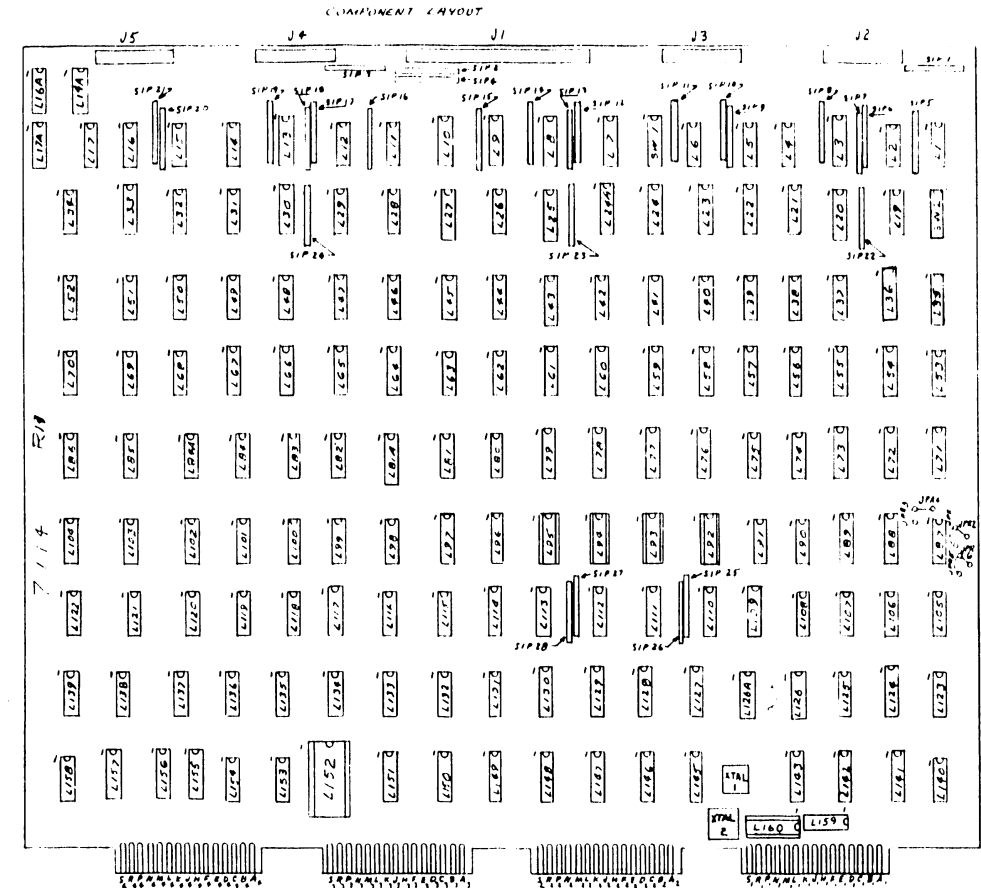
\* ADDER PER ECO# 27150

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
...	...	...	...	...	...

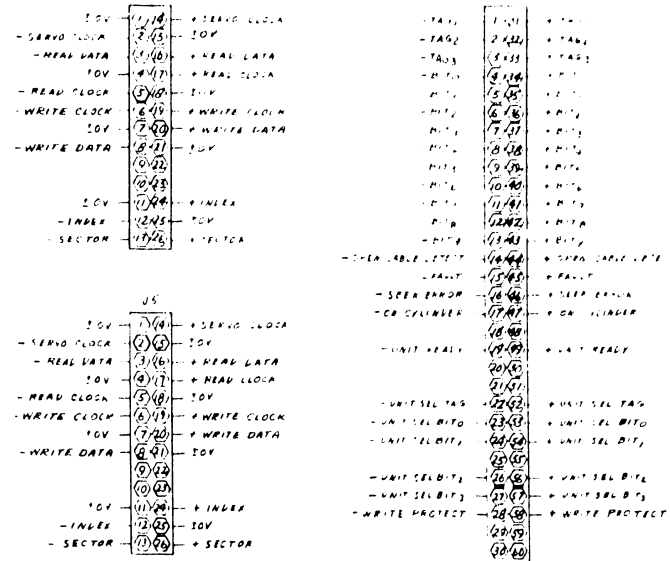
  

<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO	2200VS	...	...	...
TITLE	LARGE DISK DEVICE ADAPTER	...	...	...
...	...	...	...	...

THIS DOCUMENT IS THE PROPERTY OF WANG  
LABORATORIES INC. AND SHALL NOT BE  
REPRODUCED OR COPIED IN ANY MANNER  
FOR THE MANUFACTURE OR SALE OF APPARATUS  
OR DEVICES WITHOUT PERMISSION

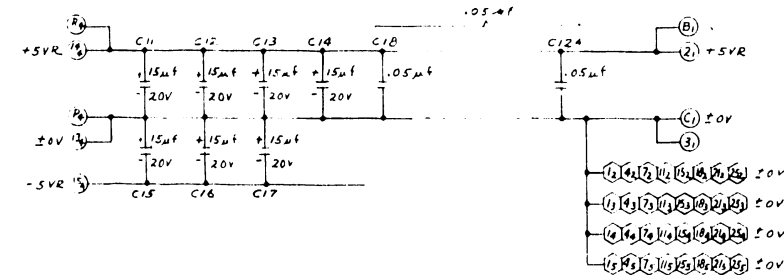


IC TYPE	LOCATION	SPARE
7414	L47	1
7414	L90	3
7414	L100	1
7414	L159	7
7408	L126A	1
7411	L16A	1
7420	L91	1
7410	L137	1
7468	L4	1
7427	L140	1
7474	L21	1
7410	L47	1
7468	L137	1
74LS139	L98	1
7409	L10	3

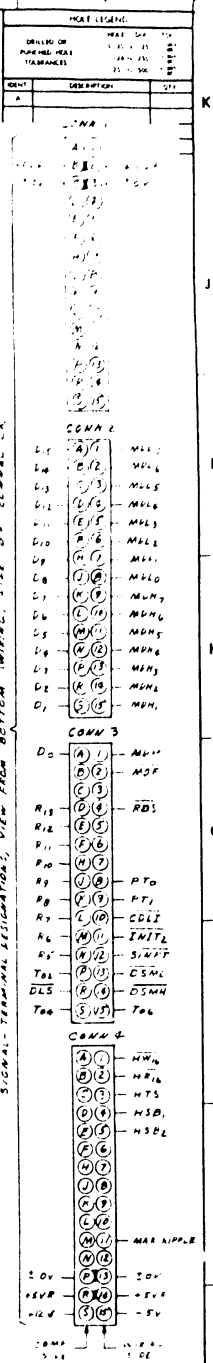
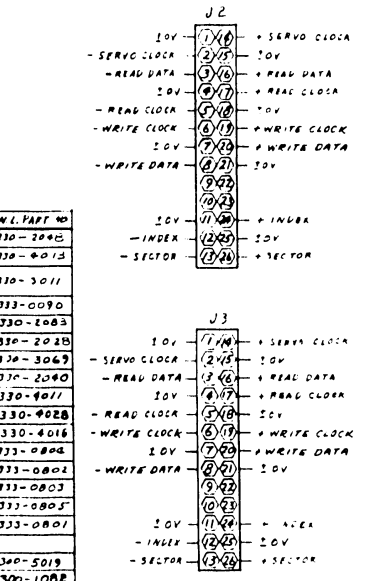


IC LOCATION	WANG PART NO.	QTY	REF. DES.
L1, 2, 5, 6, 11, 12, 16, 26	376-0186	7	14
L3, 8, 13	376-0275	8	14
L4, 9, 15, 19	376-0100	7	14
L7, 50, 51, 52, 21, 26, 27, 28	376-0080	8	16
L9, 10, 20, 25, 27, 30	376-0174	8	16
L14, 15, 40, 75, 81, 132	376-0031	7	14
L14, 45, 52, 53, 60, 101, 106, 110, 120A	376-0081	7	14
L14, 44, 125, 150	376-0188	7	14
L17	376-0184	7	14
L17A, 31, 34, 49, 50, 51, 62, 70, 80, 82, 100, 101, 104, 107, 115, 116, 119, 123, 126, 131, 133, 37	376-0008	7	14
L18, 154	376-0093	7	14
L21-29, 56, 57, 110-113, 124	376-0119	8	16
L24, 41, 140, 143	376-0154	7	14
L28	376-0012	7	14
L29, 68, 136	376-0202	7	14
L42, 138, 139	376-0116	7	14
L51, 31, 107	SPARE	8	
L38, 42, 74, 137	376-0036	7	14
L41, 43	376-0090	8	16
L44, 46, 48, 49, 50, 104, 105, 160	376-0010	7	14
L47, 137	376-0003	7	14
L57, 55, 74, 77, 92, 110, 140, 157	376-0055-1	7	14
L67, 86, 99, 102, 105	376-0002	7	14
L70	376-0094	8	16
L75, 66, 67	376-0178	8	16
L77A, 96, 149, 150, 151	376-0302	8	76
L80A	376-0112	7	14
L85, 117	376-0226	8	16
L95, 115	376-0113	8	16
L121, 130	376-0092	8	16
L130	376-0115	7	14
L145-149	376-0170	8	16
L154	376-0139	7	14
L172	376-0190	7	14
L155, 156	376-0220	8	16
L92-95	SOCKET 16PIN 376-9005		
L184	NOT LISTED		

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
25-025, 26, 28, 29			330-2040		
AS-1			330-4015		
AS-2			330-3011		
R11, R10, 58			333-0090		
R24, 25, 15, 63			330-1083		
A29			330-2020		
R20, R1, 50			330-3069		
R19			330-2040		
R29, 12			330-4011		
R31			330-4028		
R52			330-4016		
SIP1, 3, 8, 20, 22, 24			333-0804		
SIP2, 6, 7, 15, 18, 27			333-0802		
SIP3, 6, 14, 11, 14, 18, 21			333-0803		
SIP4, 2, 6-B			333-0805		
SIP25, 27			333-0801		
S1			340-5019		
CP, 126			300-108E		
C9			300-1954		
C5, 125			300-1903		
C7, 127			300-4020		
C8, 6			300-5020		
C6, 3, 10			300-5084		
C11-17			300-4022		
C18-124			300-1900		
SW1, 2			325-1803		
J1 40 PMS SOCKET COMM			350-0087		
J2, 3, 4, 5 24 PMS SOCKET COMM			350-0090		
D1, 2			380-1001		
X7A, 1			321-0019		
X7A, 2			321-0009		



NOTES:  
1) ALL RESISTORS ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.



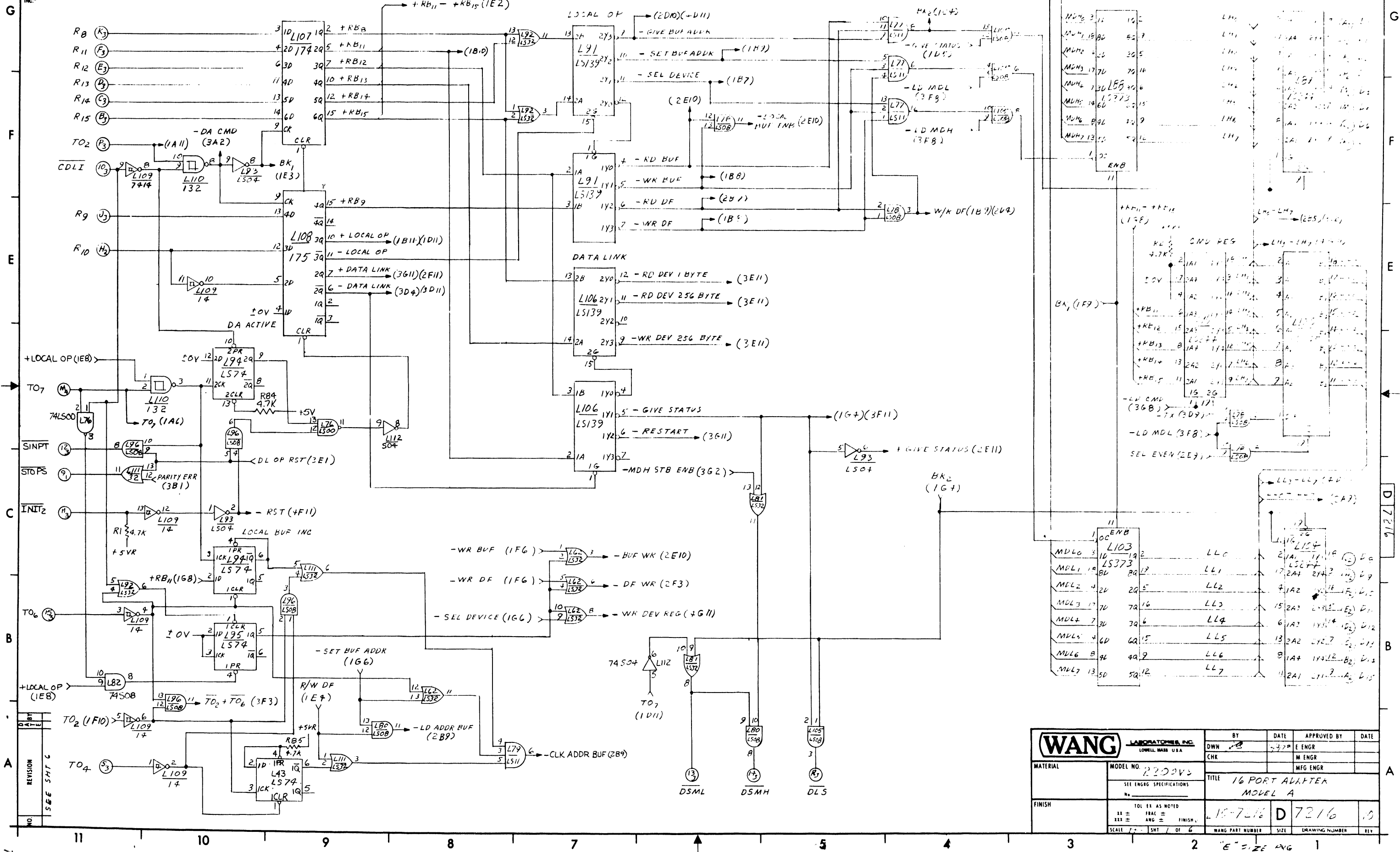
WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION



NO. 13-13-11-11  
NO. 13-13-11-11  
NO. 13-13-11-11

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE



<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 7-27-76	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. 2200VS	CHK CHK		M ENGR	
FINISH	SEE ENGR SPECIFICATIONS			MFG ENGR	
TITLE 16 PORT ADAPTER MODEL A					
TOL ER AS NOTED					
XX ± FRAC ±					
XXX ± ANG ± FINISH					
SCALE 7-2	SHT 1 OF 6	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

MDL0	ML-1	ML-2	ML-3	ML-4	ML-5	ML-6	ML-7	ML-8	ML-9	ML-10	ML-11	ML-12	ML-13	ML-14	ML-15	ML-16	ML-17	ML-18	ML-19	ML-20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

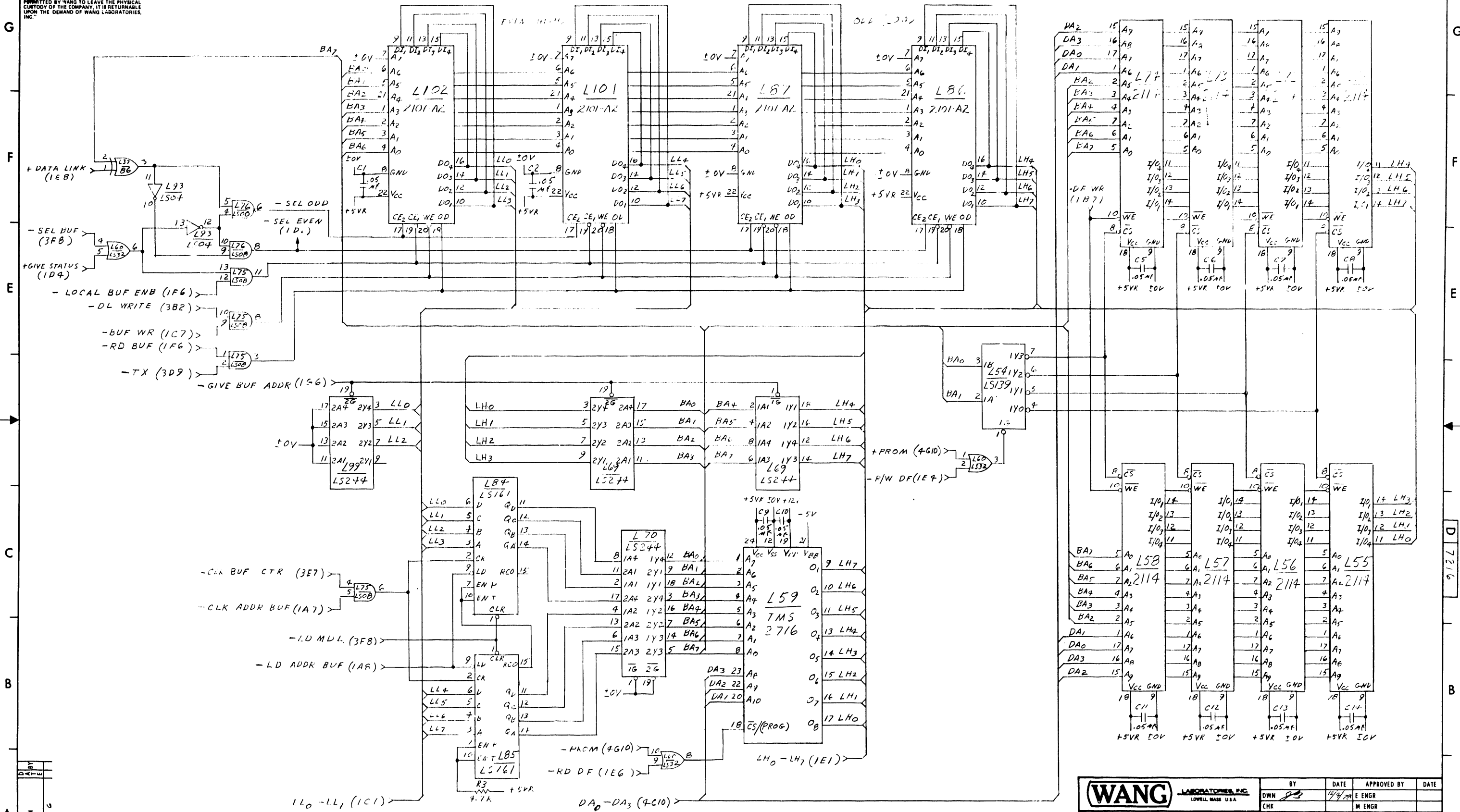
MDL0	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	MDL8	MDL9	MDL10	MDL11	MDL12	MDL13	MDL14	MDL15	MDL16	MDL17	MDL18	MDL19	MDL20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

REVISION	DATE	BY
1		
2		
3		



THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE

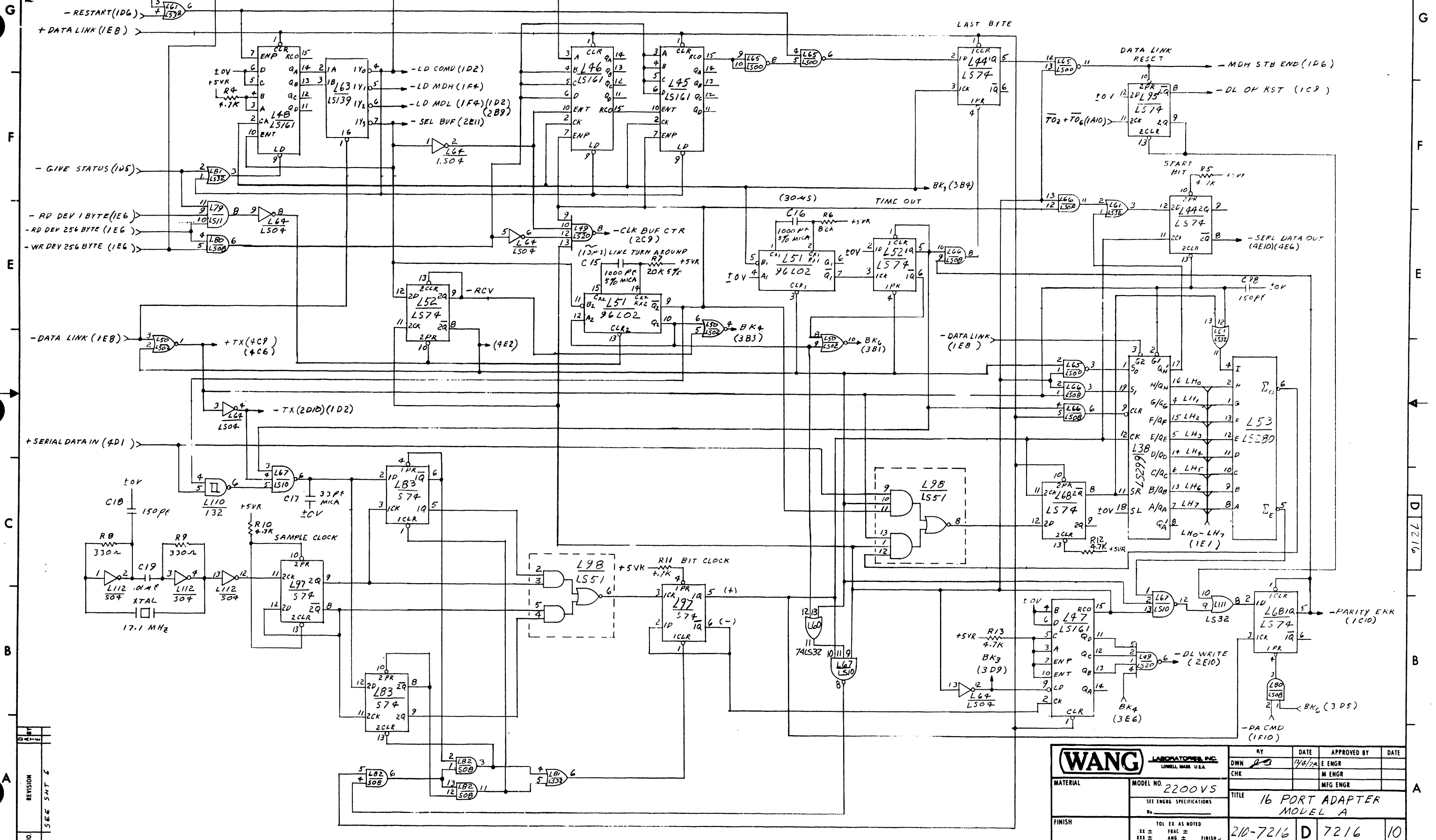


NO.	REVISION

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 12/4/74	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO. 2200VS SEE ENGR SPECIFICATIONS		TITLE 16 PORT ADAPTER MODEL A			
FINISH		210-7216 D		7216	10
SCALE 1:1		SHEET 2 OF 6		WANG PART NUMBER	SIZE DRAWING NUMBER

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

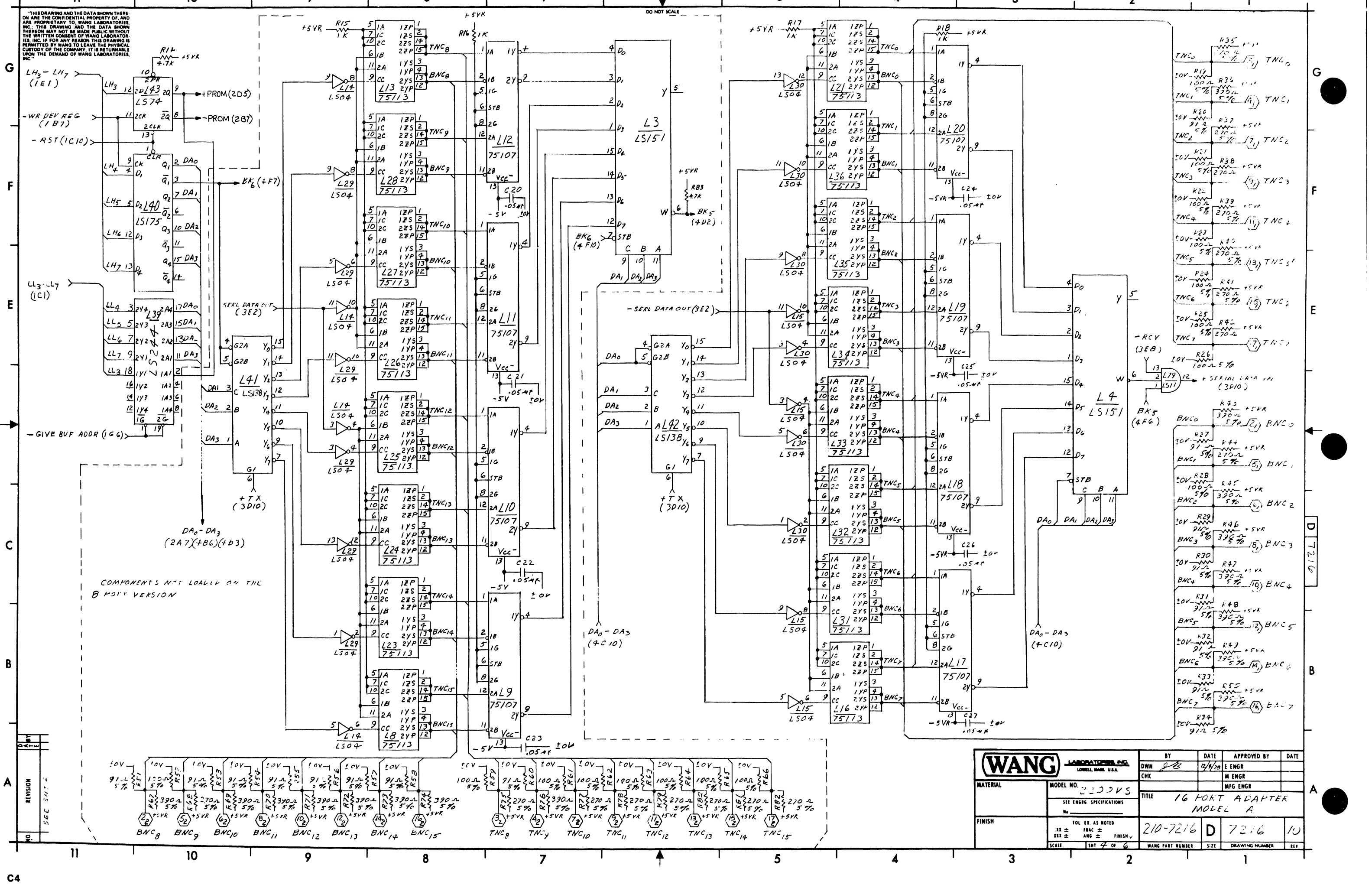
DO NOT SCALE



NO.	REVISION
	SEE SAT. 1

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		RY	DATE	APPROVED BY	DATE
		DWN	1/4/72	E ENGR	
MATERIAL		CHK		M ENGR	
MODEL NO. 2200VS		MFG ENGR			
SEE ENGRG SPECIFICATIONS		TITLE			
		16 PORT ADAPTER			
		MODEL A			
FINISH		101 EX. AS NOTED			
		XX ± 0.1% ANG ±			
		XXX ± 0.05% ANG ±			
SCALE 1:1		SMT 3 OF 6			
WANG PART NUMBER		210-7216	SIZE	D	7216
					10

"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

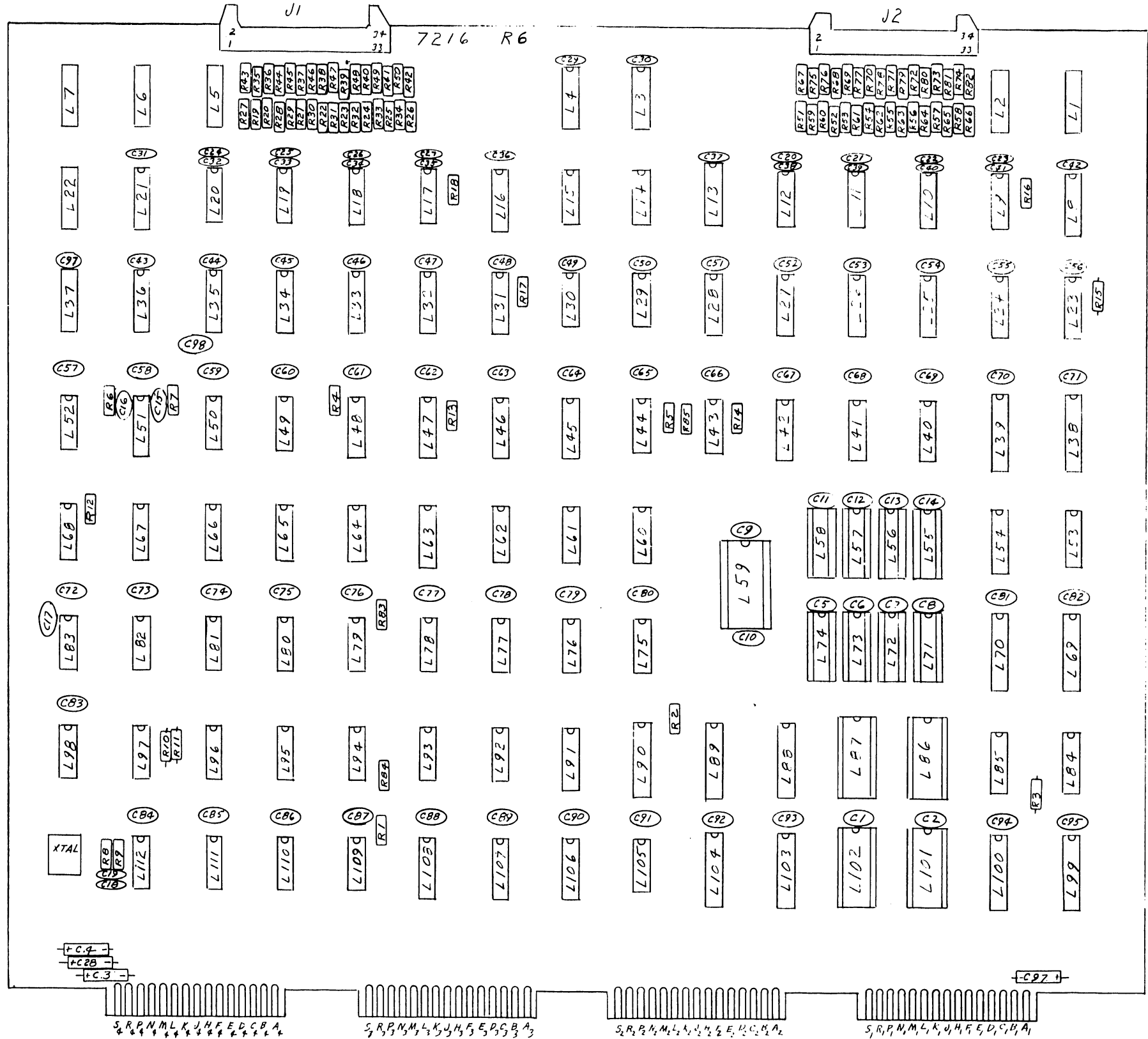


REV	DATE	BY	CHK	APPROVED BY	DATE
1		DWN		E ENGR	
2				M ENGR	
3				MFG ENGR	

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		CHK			
MODEL NO. 2103VS		TITLE 16 PORT ADAPTER MODEL A			
FINISH		TOL. EX. AS NOTED			
SCALE		210-7216 D 7216 10			
		WANG PART NUMBER SIZE DRAWING NUMBER REV			

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE

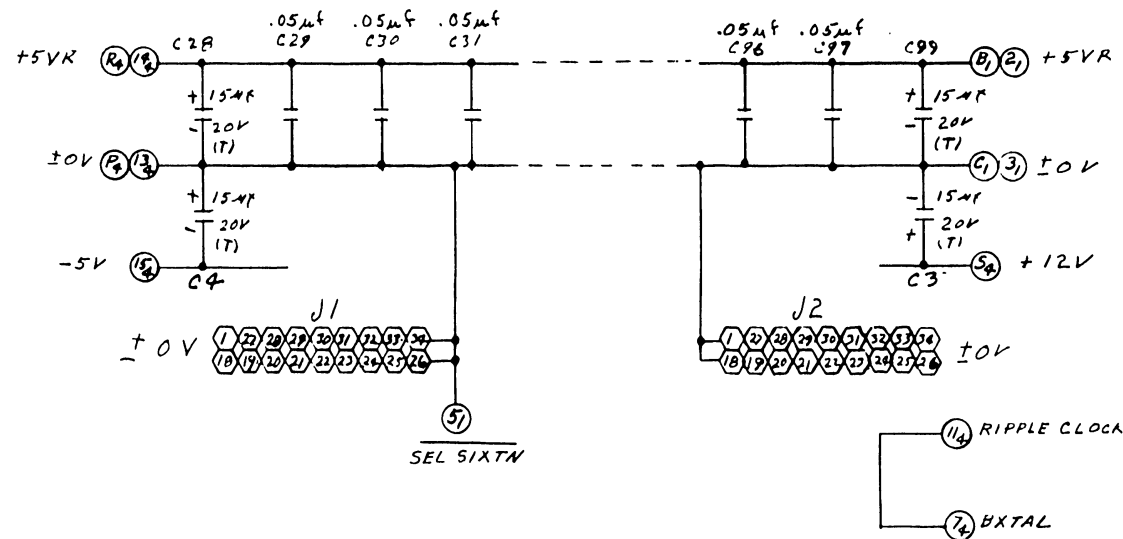
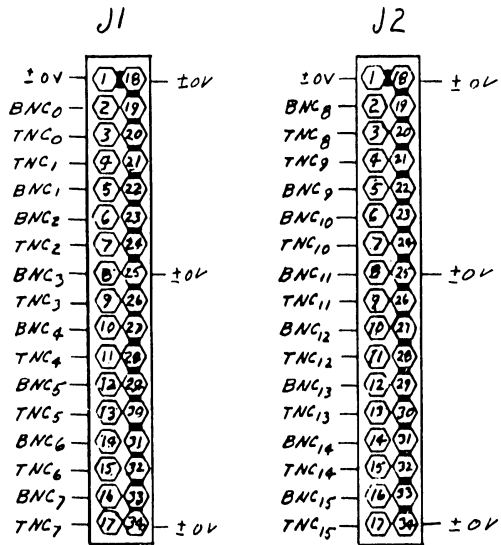
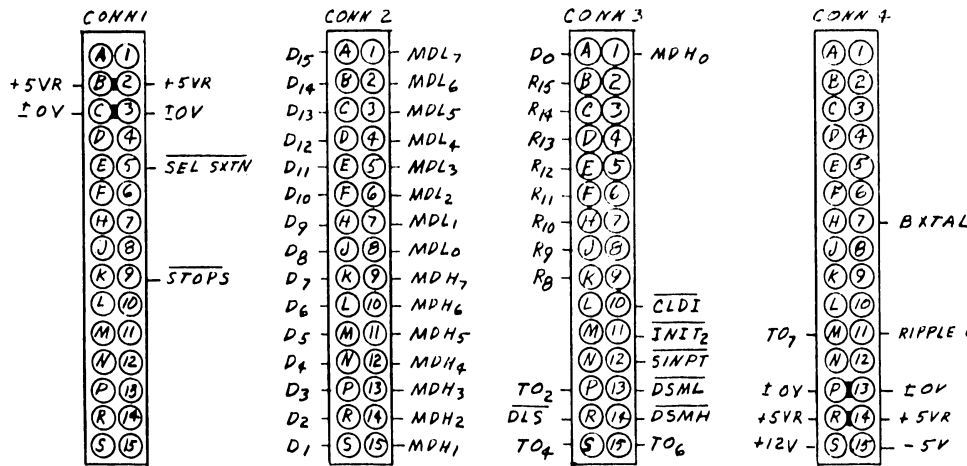


NO.	REVISION
	SEE SMT C

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 12/4/70	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO. 2200 VS SEE ENGRG SPECIFICATIONS		TITLE 16 PORT ADAPTER MODEL A			
FINISH		210-7216 D 7216		10	
SCALE: 1" = 5" OF 6"		WANG PART NUMBER		SIZE	DRAWING NUMBER

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



LOCATION	W.L. PART NO.	TYPE	NOT LOADED FOR PORT VERSION
L1, 2, 5, 6, 7, 22		SPARE	
L3, 4	376-0214	74LS151	L3
L8, 13, 16, 21, 23-28, 31-36	376-0256	75113	L8, 13, 23-28
L9-12, 17-20	376-0146	75107	L9-12
L14, 15, 29, 30, 64, 93, 112	376-0180	74LS04	L14, 29, 112
L38	376-0303	74LS299	
L40	376-0160	74LS175	
L41, 42	376-0294	74LS138	L41
L43, 44, 52, 68, 94, 95	376-0155	74LS74	
L45-48, 84, 85	376-0233	74LS161	
L49	376-0210	74LS20	
L50	376-0208	74LS02	
L51	376-0132	96L02	
L53	376-0242	74LS280	
L54, 63, 91, 106	376-0226	74LS139	
L55-58, 71-74	SEE CHART	2114-3	
L59	SEE CHART	2716	
L60, 61, 62, 81, 92, 111	376-0211	74LS32	
L62	376-0200	74S08	
L65, 76	376-0207	74LS00	
L66, 75, 78, 80, 96, 105	376-0153	74LS08	
L67	376-0209	74LS10	
L69, 70, 89, 90, 94, 104, 39	376-0288	74LS244	
L77, 79	376-0225	74LS11	
L86, 87, 101, 102	SEE CHART	210-A	
L88, 103	376-0310	74LS373	
L98	376-0213	74LS51	
L100	376-0285	74LS245	
L107	376-0098	74174	
L108	376-0119	74175	
L109	376-0139	74174	
L110	376-0266	74132	
L83, 97	376-0202	74574	
L37	376-0036	7486	
L112	376-0197	74LS04	

COMPONENT	W.L. PART NO.	TYPE	NOT LOADED FOR PORT VERSION
R1-5, 10-14, 83-85	330-3047	4.7K 1/4W 10%	
R6	330-4082	82K 1/4W 10%	
R7	330-4021	20K 1/4W 5%	
R8, 9	330-2033	330Ω 1/4W 10%	
R15-18	330-3010	1K 1/4W 10%	R15, 16
R19, 21-26, 28, 52, 59, 61-66	330-2011	100Ω 1/4W 5%	R52, 59, 61-66
R35, 37-42, 44, 68, 75, 77-82	330-2028	270Ω 1/4W 5%	R68, 75, 77-82
R20, 27, 29-34, 51, 53-58, 60	330-1092	91Ω 1/4W 5%	R51, 53-58, 60
R36, 43, 45-50, 67, 69-74, 76	330-2040	390Ω 1/4W 5%	R67, 69-74, 76
C12, 5-14, 20-27, 29-97	300-1900	.05μF CER	C20-23, 30, 37-42, 50-56, 60
C15, 16	300-5006	1000PF 5% MICA	
C17	300-5016	33PF 500V MICA	
C18, 98	300-1150	150PF 500V CER	
C19	300-1903	.01μF 15V CER	
C3, 4, 28, 99	300-4022	15μF 20V IT	
X1AL	321-0018	17.1MHz	
J1, 2	350-0429	CONN. 34 PIN	
L55-58, 71-74	376-9014	18 PIN SOCKET	
L86, 87, 101, 102	376-9007	22 PIN SOCKET	
L59	376-9003	24 PIN SOCKET	

IC TYPE	LOC.	SPARE
74LS02	L50	1
74LS04	L14	2
	L15	2
	L64	1
	L93	1
	L112	1
74LS32	L61	1
	L92	1
7486	L37	3
74132	L110	1
74LS139	L54	1
	L63	1
74LS244	L99	4

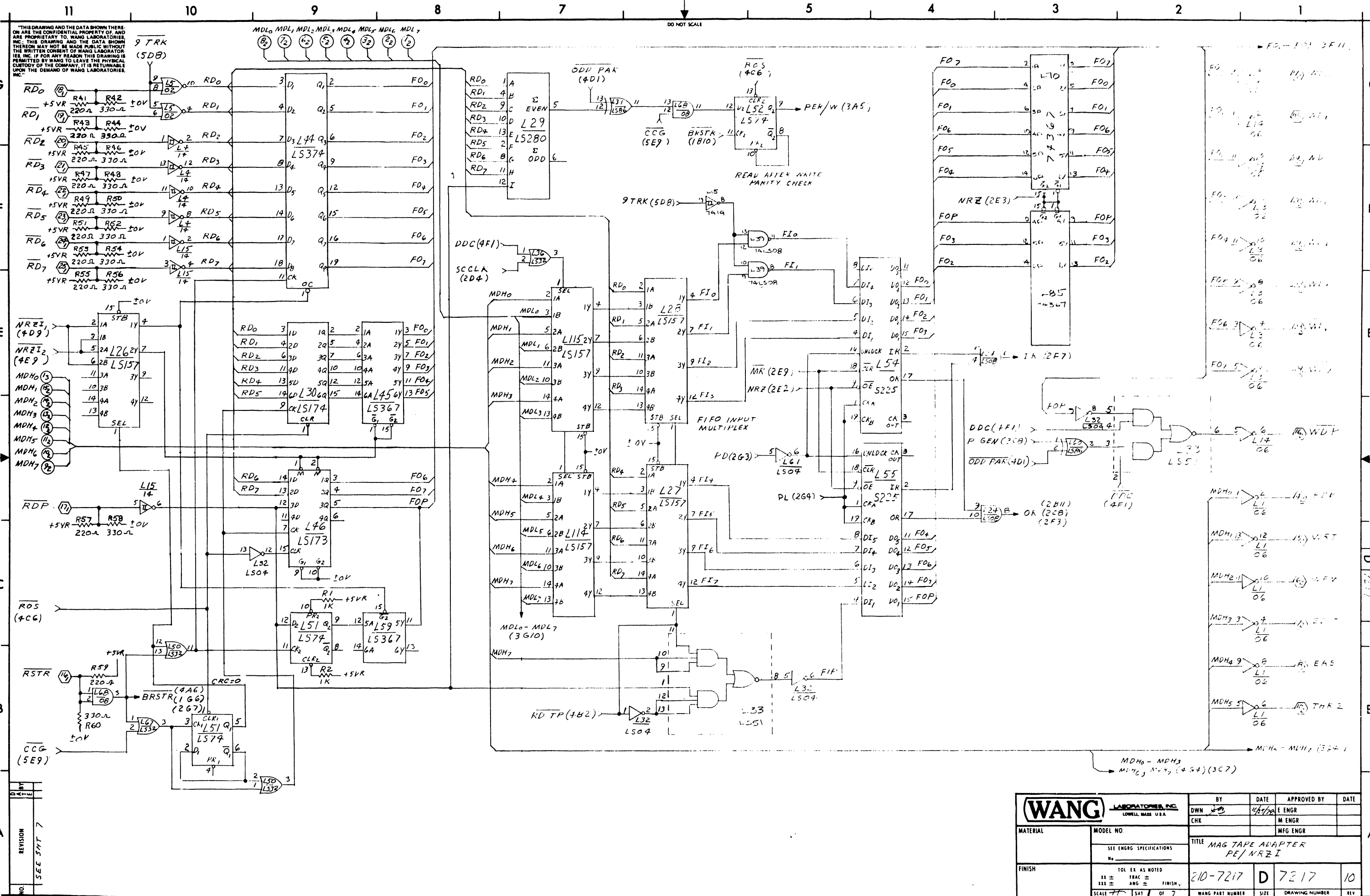
210	209	L55-58, 71-74	L59	L86, 87, 101, 102
7216-A	7216	377-0378	378-4142-R1	377-0308
7216-B	7216	377-0378	378-4031	377-0308

MNEMONIC	COORDINATE
BNC0 - BNC7	4 C 1
BNC8 - BNC15	4 A 9
BXTAL	6 B 7
CDLI	1 F 11
D0 - D7	1 F 1
D8 - D15	1 B 1
DLS	1 A 5
DSMH	1 A 6
DSML	1 A 6
INIT2	1 C 11
MDH0 - MDH7	1 G 2
MDL0 - MDL7	1 G 4
R8, 11-15	1 G 11
R9, 10	1 E 11
RIPPLE CLOCK	6 B 7
SEL SXTN	6 B 9
SINPT	1 C 11
STOPS	1 C 11
TNC0 - TNC7	4 F 1
TNC8 - TNC15	4 A 6
TO2	1 F 11
TO4	1 A 11
TO6	1 B 11
TO7	1 D 11

E-REV  
5

NO.	REVISION	DATE	BY	APPROVED BY	DATE
1	ORC PER	12-4-70	BR		
2	DWR PER	12-4-70	BR		
3	REVISED PER	12-4-70	BR		
4	REVISED PER	12-4-70	BR		
5	REVISED PER	12-4-70	BR		
6	REVISED PER	12-4-70	BR		
7	REVISED PER	12-4-70	BR		
8	REVISED PER	12-4-70	BR		
9	REVISED PER	12-4-70	BR		
10	REVISED PER	12-4-70	BR		
11	REVISED PER	12-4-70	BR		
12	REVISED PER	12-4-70	BR		
13	REVISED PER	12-4-70	BR		
14	REVISED PER	12-4-70	BR		
15	REVISED PER	12-4-70	BR		

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 1/4/71	APPROVED BY E ENGR E WILDE	DATE 5/29/71
MATERIAL	MODEL NO. 2200VS	TITLE 16 PORT ADAPTER MODEL A			
FINISH	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	210-7216	D	7216	10
SCALE	SHT 6 OF 6	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV



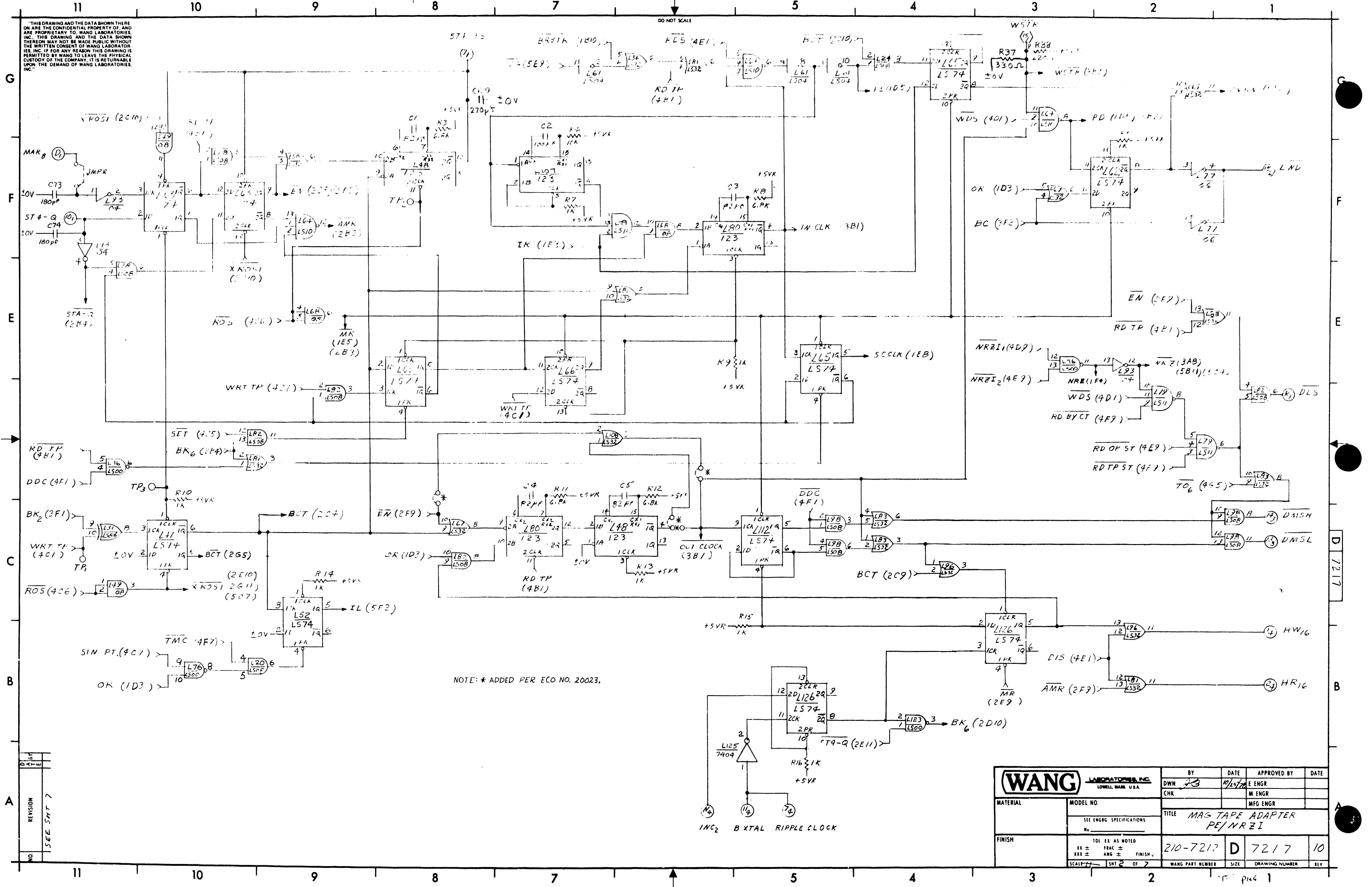
THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

REV	DATE	BY	CHK	APP
1				
2				
3				
4				
5				
6				
7				

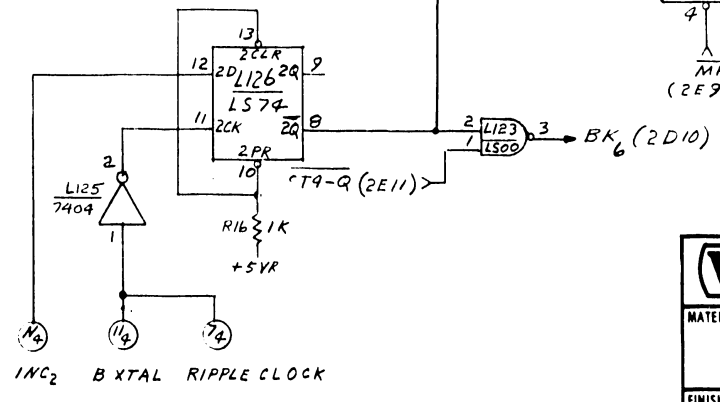
<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 4/1/72	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO.	CHK		M ENGR	
	SEE ENGRG SPECIFICATIONS			MFG ENGR	
FINISH	TOL EX AS NOTED	TITLE MAG TAPE ADAPTER PE/NRZ I			
	XX ± FRAC ± FINISH	210-7217	D	7217	10
	SCALE 1/8" = 1"	SHT 7	OF 7	WANG PART NUMBER	SIZE
				DRAWING NUMBER	REV

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



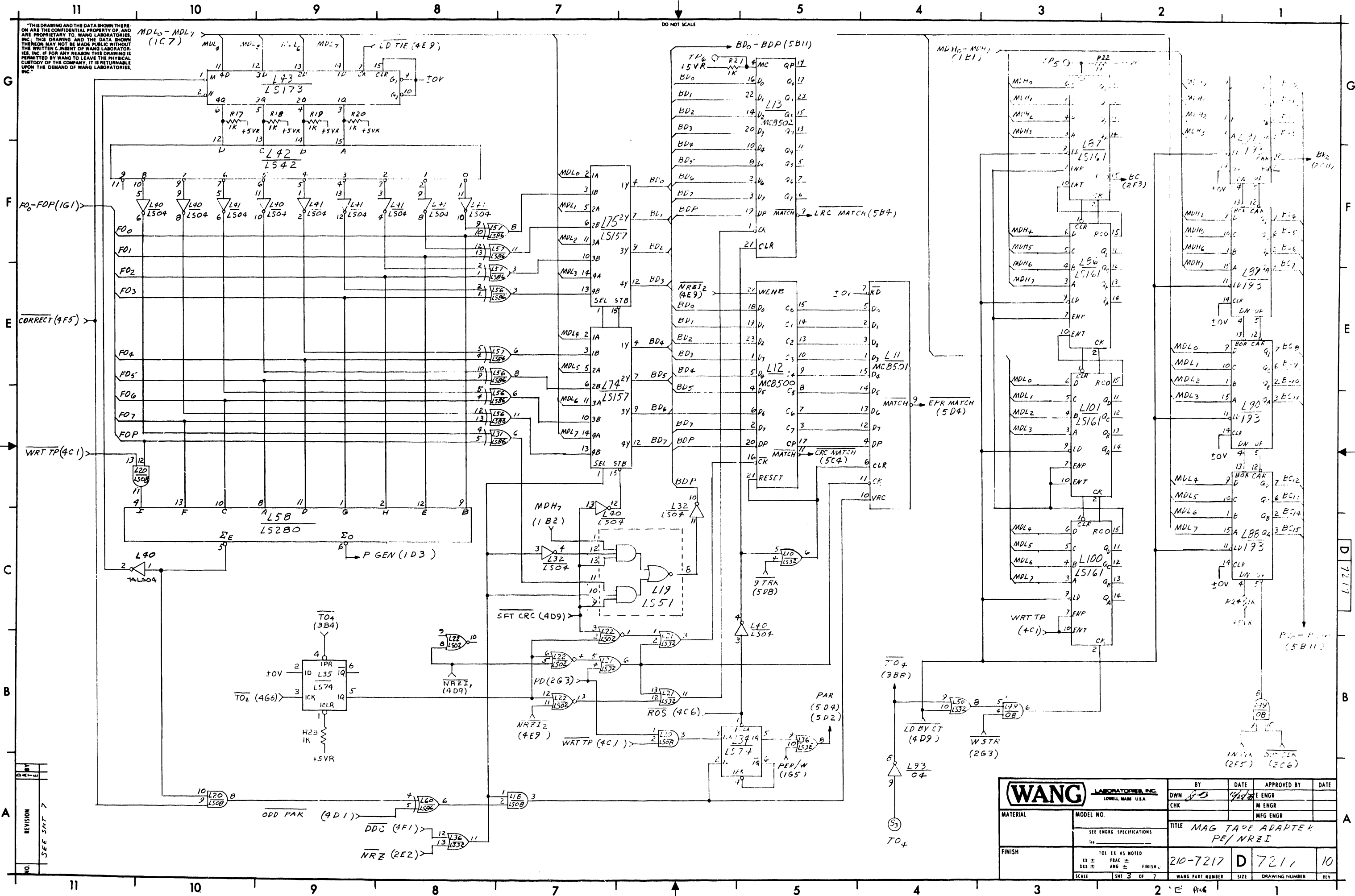
NOTE: \* ADDED PER ECO NO. 20023.



<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN JB	DATE 10/25/70	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO.	CHK		M ENGR	
SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/NRZI			
FINISH	TOL EX AS NOTED	210-7217		D	7217
	XX ± FRAC ±	WANG PART NUMBER		SIZE	DRAWING NUMBER
	XXX ± ANG ± FINISH	SCALE 1/1		SMT 2 OF 7	REV

NO.	REVISION	DATE
	SEE SHY 7	

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



NO.	REVISION	DATE	BY
	SEE SMT 7		

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	4/27/68	E ENGR	
MODEL NO.		CHK		M ENGR	
SEE ENGR SPECIFICATIONS				MFG ENGR	
FINISH		TITLE			
TOL EX AS NOTED		MAG TAPE ADAPTER			
XX ± FRAC ±		PE/NRZI			
XXX ± ANG ±		210-7217	D	7211	10
SCALE SMT 3 OF 7		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

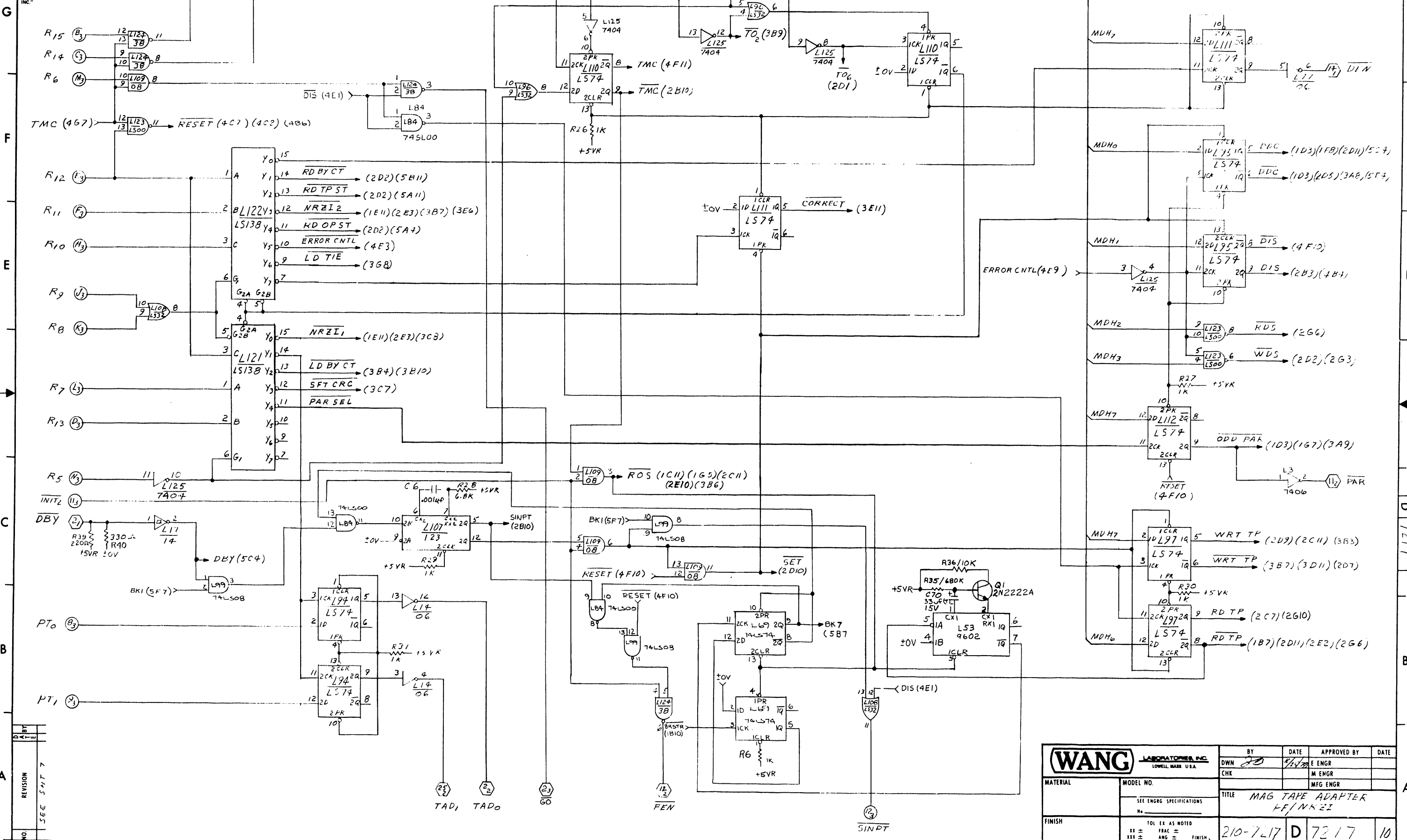


"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREIN MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

REWIND OFF-LINE

DO NOT SCALE

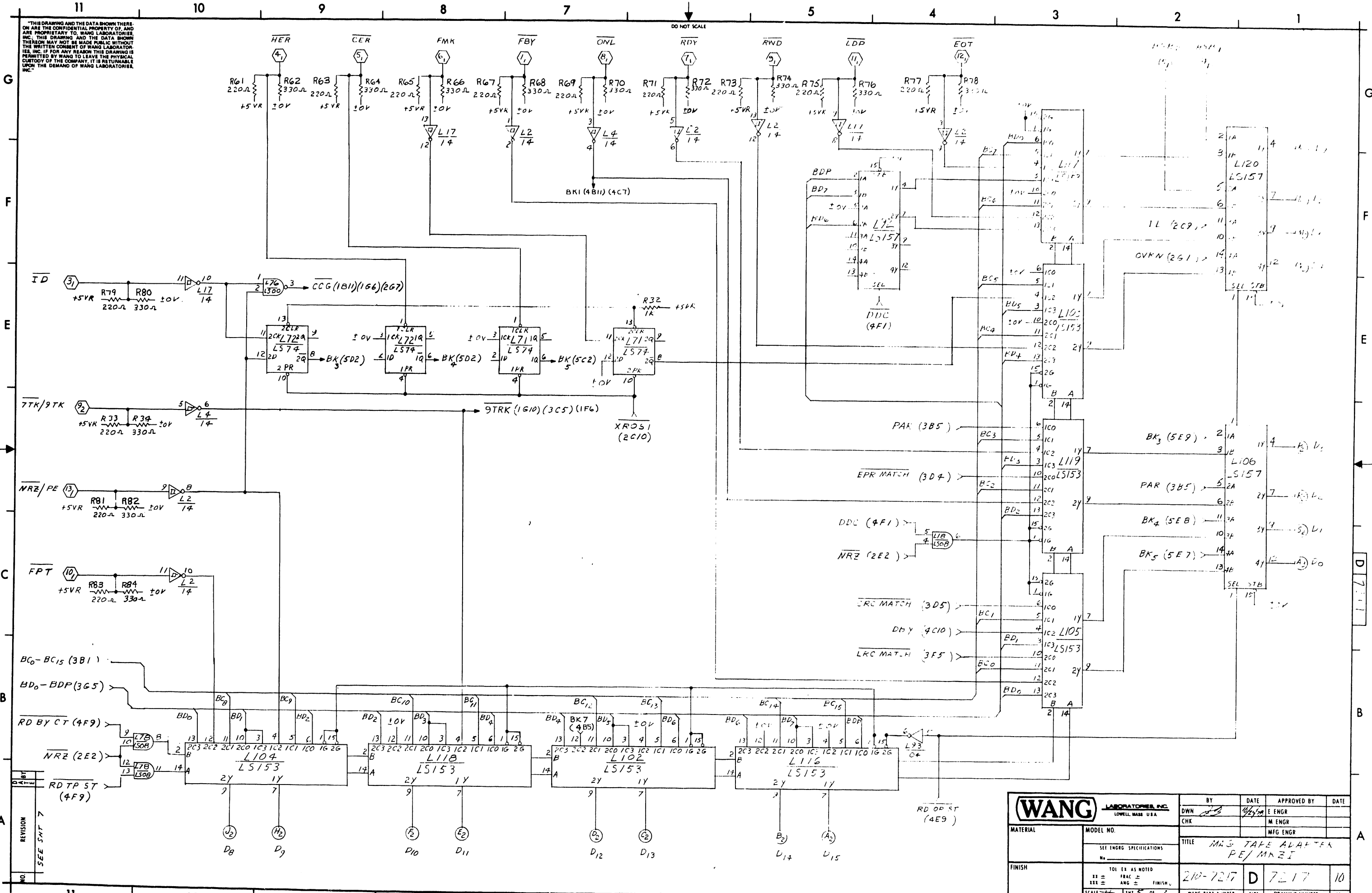
MDH<sub>0</sub>-MDH<sub>3</sub>, (162)  
MDH<sub>6</sub>, MDH<sub>7</sub>



NO.	REVISION
1	SEE SHT 7

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWH	DATE 4/17/77	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO. SEE ENGRG SPECIFICATIONS		TITLE MAG TAPE ADAPTER FF/NRZI			
FINISH TOL EX AS NOTED XX ± FRAC ± FINISH XXX ± ANG ±		210-7217		D 7217	10
SCALE SHT 4 OF 7		WANG PART NUMBER		SIZE	DRAWING NUMBER

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."



NO.	REVISION	DATE	BY	CHK	APP'D

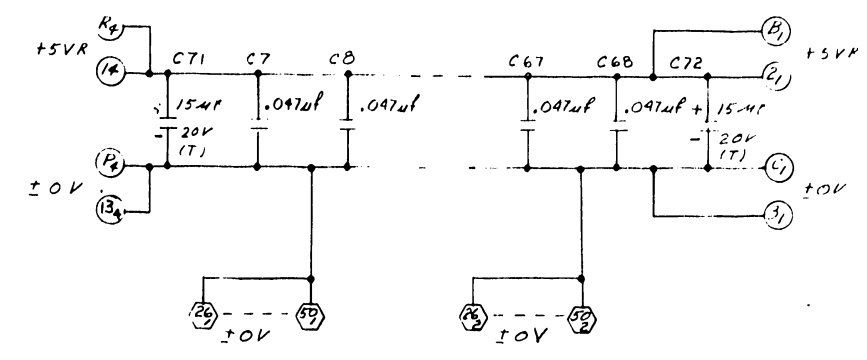
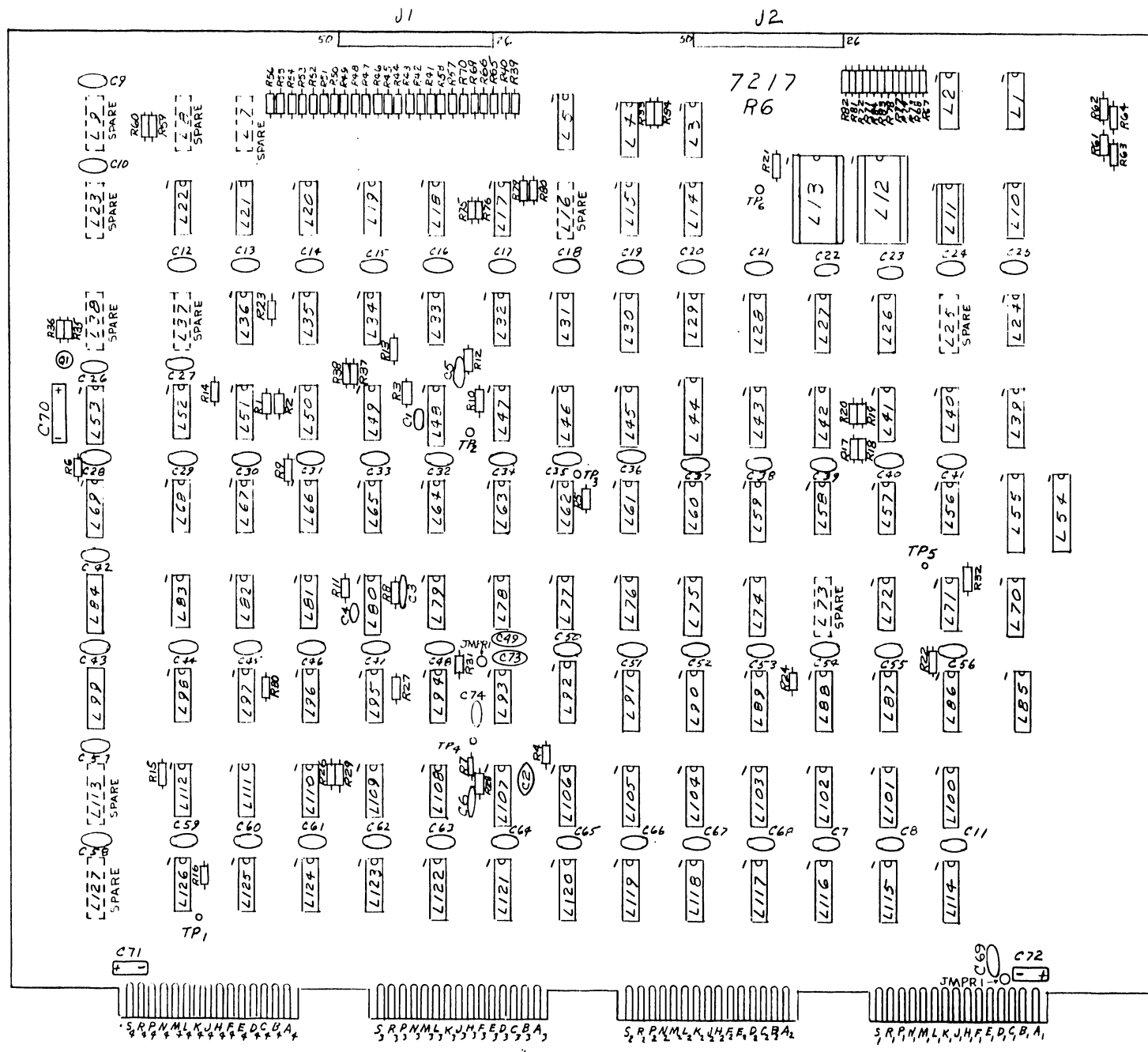
<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 4/2/68	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO.	CHK CHK		M ENGR	
SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/MRZ I			
FINISH	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	210-7217		D	7 2 17
SCALE	SHT 5 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE

G  
F  
E  
C  
B  
A

F  
E  
D 7217  
B



NO	REVISION	DATE	BY
	SEE SHY		

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 11/17	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO.	CHK		M ENGR	
SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/MRZL			
FINISH	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	210-7217A	D	7217	10
SCALE 7/8		SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE

11

10

9

8

7

5

4

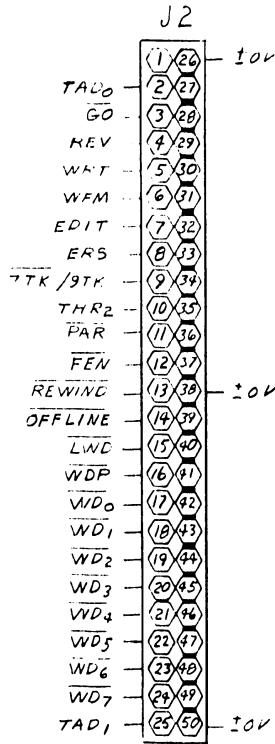
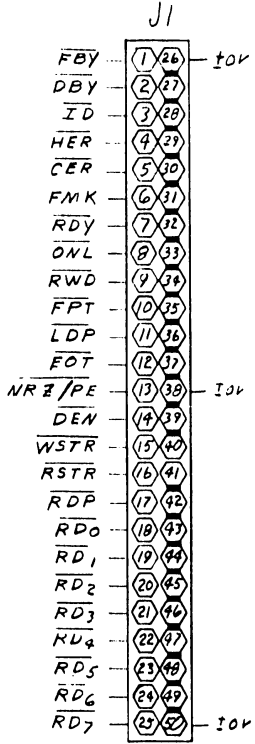
3

2

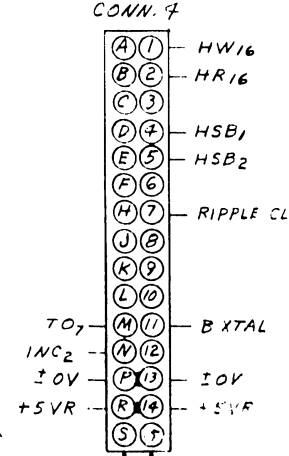
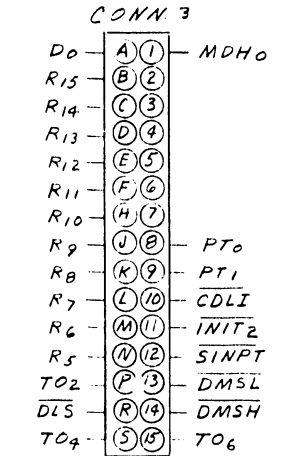
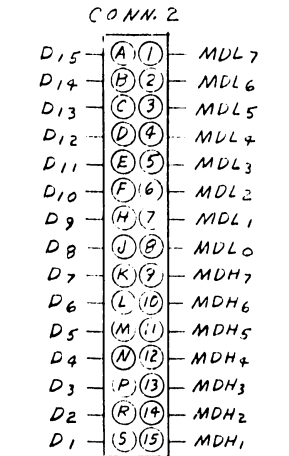
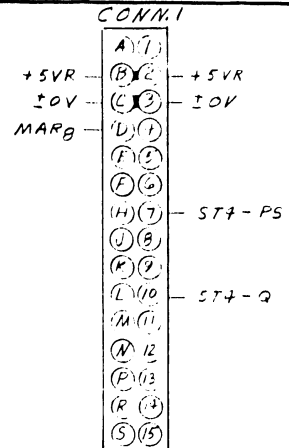
1

IC. LOCATION	W.L. PART NO	IC. TYPE
L1,3,14,77	376-0055	7406
L2,4,15,17	376-0139	7414
L53	376-0104	9602
L32,40,41,61	376-0180	74LS04
L6-9,16,23,25,37,38,73,113,127		SPARE
L10,21,36,50,67,81,83,96,108	376-0211	74LS32
L11	376-0169	8501
L12	376-0168	8500
L13	376-0170	8502
L18,20,24,39,78,82,98,99	376-0153	74LS08
L19,33	376-0213	74LS51
L22	376-0208	74LS02
L26-28,74,75,92,106,114,115,120	376-0216	74LS157
L29,58	376-0242	74LS280
L30	376-0159	74LS174
L31,56,57,60	376-0231	74LS86
L34,35,47,51,52,62,63,65,66,71,72,94,95,97,110-112,126	376-0155	74LS74
L42	376-0212	74LS42
L43,46	376-0289	74LS173
L44	376-0286	74LS374
L45,59	376-0192	74LS367
L48,80,107	376-0080	74123
L54,55	376-0323	74S225
L64	376-0209	74LS10
L76,84,123	376-0207	74LS00
L79	376-0225	74LS11
L86,87,100,101	376-0233	74LS161
L88-91	376-0220	74LS193
L102-105,116-119	376-0156	74LS153
L121,122	376-0294	74LS138
L124	376-0128	7438
L49,68,109	376-0081	7408
L93,125	376-0010	7404
L63	376-0006	7474
L70,85	376-0192	74LS367
L5	376-0016	7402

LOC.	TYPE	SPARES	LOC.	TYPE	SPARES
L5	7402	2	L47		1
			L35	74LS74	1
			L62		1
L10		3	L53	9602	1
L27	74LS32	1	L59	74LS367	1
L108		1	L60		2
L15		2	L31	74LS86	1
L17	7414	2	L61	74LS04	2
L18		2	L17	7406	3
L24	74LS08	1	L84	74LS00	1
L95		1	L93	7404	1
L19	74LS51	1	L125		1
L34	74LS74	1			



COMPONENT	W.L. NO.	TYPE
R1,2,5-7,9,10,13-24,26,27,29-32	330-3010	1K, 1/4W, 10%
R3,8,11,12,25	330-3068	6.8K, 1/4W, 10%
R4,36	330-4010	10K, 1/4W, 10%
R33,38,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83	330-2022	220Ω, 1/4W, 10%
R35	330-5068	680K
C1,3-5	300-1082	82 PF 500V CER
C2	300-1100	100 PF 500V CER
C7,72	300-4022	154K, 20V, TANT
C7-68	300-1966	.047μF, 50V CER
C69	300-1270	270 PF, 500V
C70	300-4019	33μF, 15V, TA
C6	300-1906	.0014μF, 500V
R34,37,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84	330-2033	330Ω, 1/4W, 10%
Q1	315-1005	2N2222A
J1,2	350-1027	57-40500
C73,74	300-1180	180 PF 500V CER



MNEMONIC	COORDINATE	MNEMONIC	COORDINATE
BXTAL	2A5	PT0	4E11
CDLI	4G6	PT1	4E11
CER	5G9	PAP	1A1
D0-D7	5E1	R5-R15	4F11
DR-D15	5A7	RD0-RD7	1F11
DBY	4C11	RDP	1D11
DEN	4G1	RD1	5G6
DLS	2D1	REWIND	4S10
DMSH	2C1	REV	1D1
DMSL	2C1	RIPPLE CLOCK	2A5
EDIT	1C1	RSTR	1B11
EOT	5G4	RWD	5G5
ERS	1B1		
FBY	5G7	SINPT	4A5
FEN	4A6	ST4-PS	2G8
FMK	5G8	ST4-G	2F11
FPT	5C11		
GO	4A7	TAD0	4A5
HER	5G9	TAD1	4A3
HR16	2B1	THR2	1B1
HSB1-HSB2	5G2	TO2	4G6
HW16	2B1	TO4	3A4
ID	5E11	TO6	4G5
INC2	2A6	TO7	4G7
INIT2	4C11	WD0-WD7	1F1
LDP	5G5	WDP	1D1
LWD	2F1	WFM	1C1
MARG	2F11	WRT	1C1
MDH0-MDH7	1D11	WSTR	2G3
MDL0-MDL7	1G9		
NRZ/PE	5D11		
OFFLINE	4G10		
ONL	5G7		

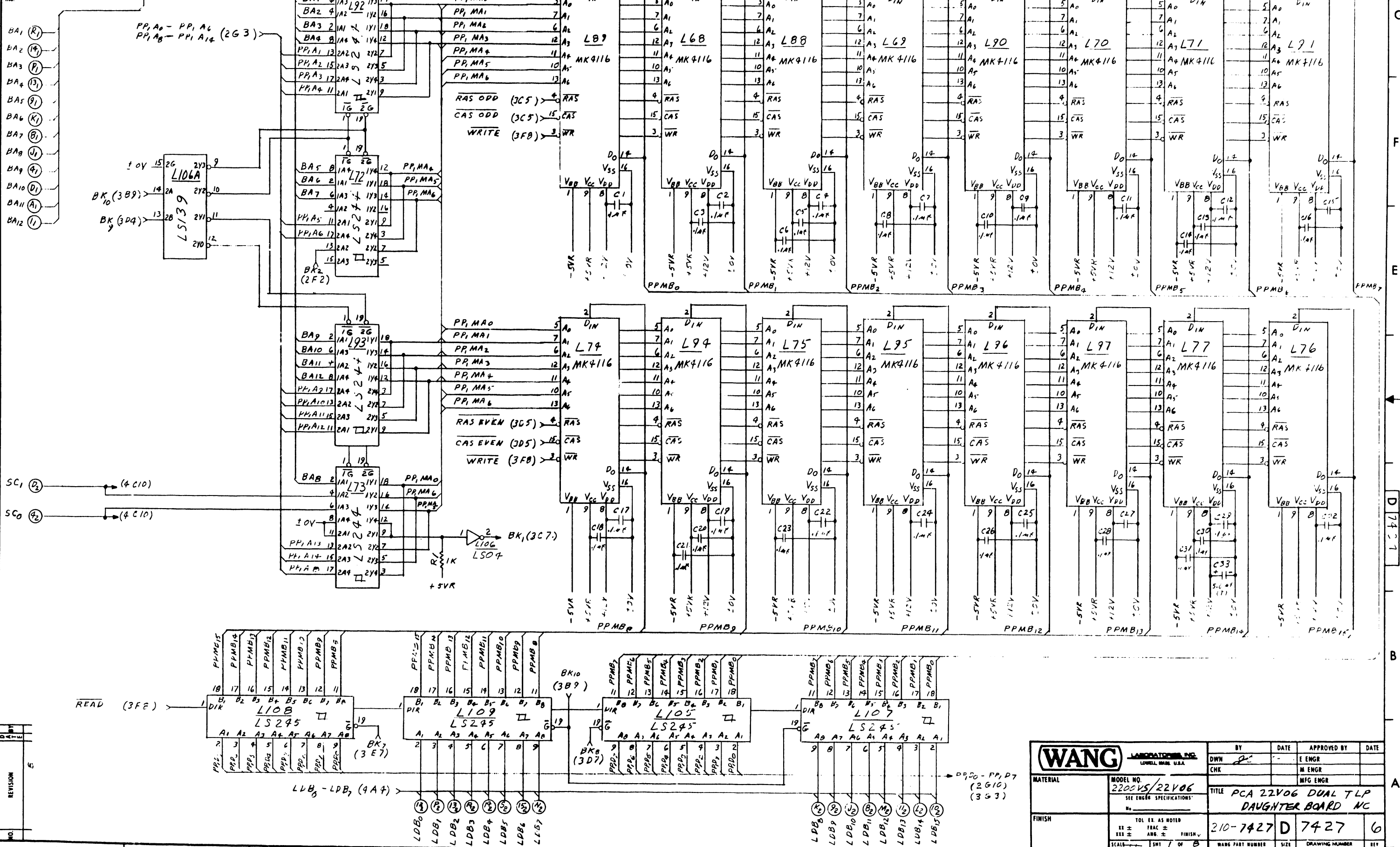
E-REV  
6

REV	BY	DATE	DESCRIPTION
1	SD	10-13-79	REVISED PER ECN # 10551
2	SD	10-13-79	REVISED PER ECN # 1199
3	SD	10-13-79	REVISED PER ECN # 12173
4	SD	10-13-79	REVISED PER ECN # 12173
5	SD	10-13-79	REVISED PER ECN # 12173
6	SD	10-13-79	REVISED PER ECN # 12173
7	SD	10-13-79	REVISED PER ECN # 12173
8	SD	10-13-79	REVISED PER ECN # 12173
9	SD	10-13-79	REVISED PER ECN # 12173
10	SD	10-13-79	REVISED PER ECN # 12173

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: <i>[Signature]</i>	DATE: 7-2-79	APPROVED BY: E. ENGR SMITH	DATE: 7-2-79
MATERIAL:	MODEL NO:	CHK: <i>[Signature]</i>	DATE: 7-2-79	MFG ENGR:	
SEE ENGR SPECIFICATIONS		TITLE: MAG TAKE ADAPTER PE/NRZ I			
FINISH:	TOL EX AS NOTED	210-7217A	D	7217	10
SCALE: 1:1	SHEET 7 OF 7	WANG PART NUMBER:	SIZE:	DRAWING NUMBER:	REV:

2 E Pk 1

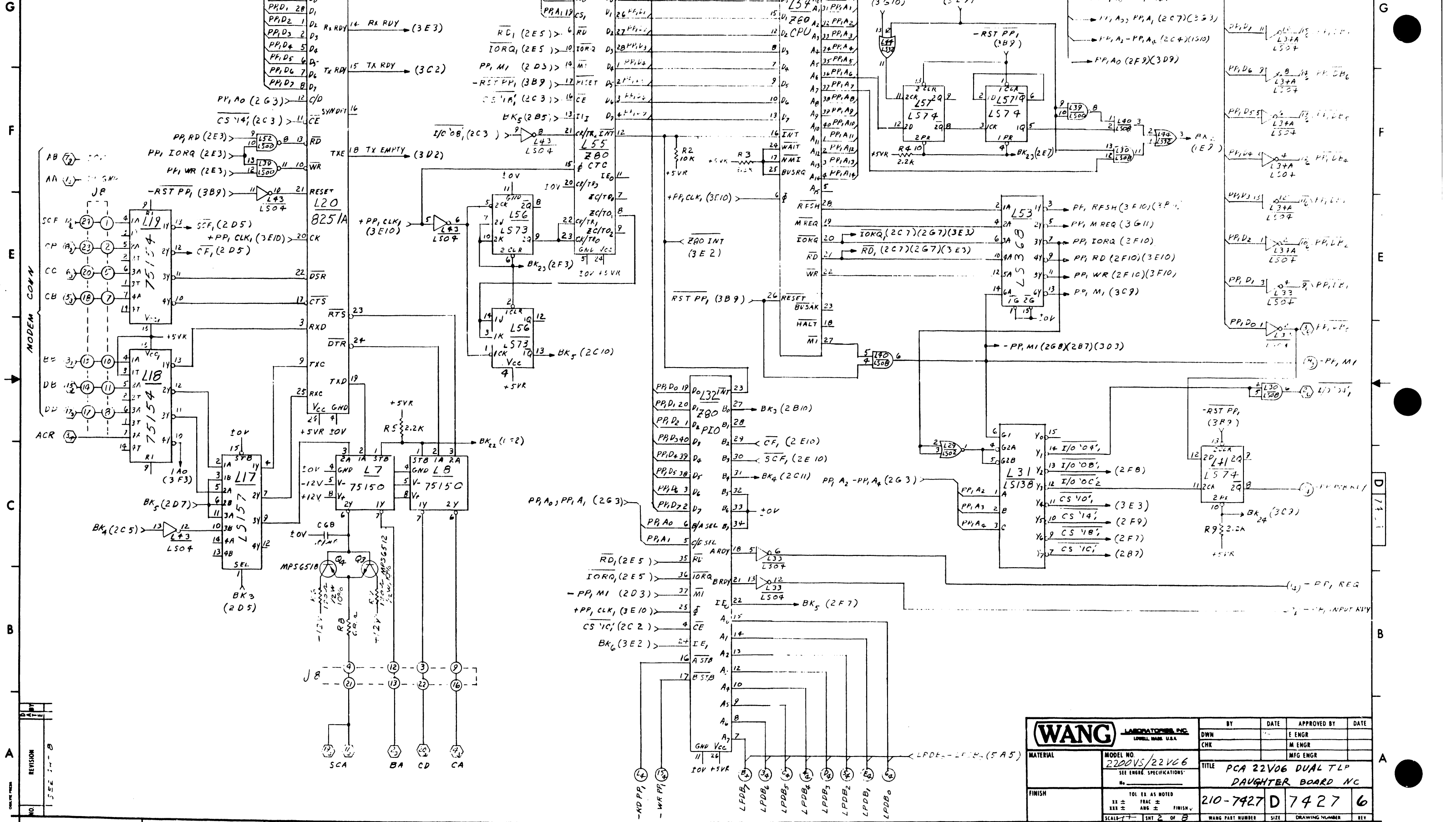
THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



NO.	REVISION

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL		CHK		M ENGR	
				MFG ENGR	
MODEL NO. 2206VS/22V06 SEE ENGR SPECIFICATIONS		TITLE PCA 22V06 DUAL TLP DAUGHTER BOARD NC			
		210-7427 D		7427 6	
FINISH		SCALE		WANG PART NUMBER	
TOL EX. AS NOTED XX ± FRAC ± XXX ± ANG ±		SMT / OF B		SIZE	

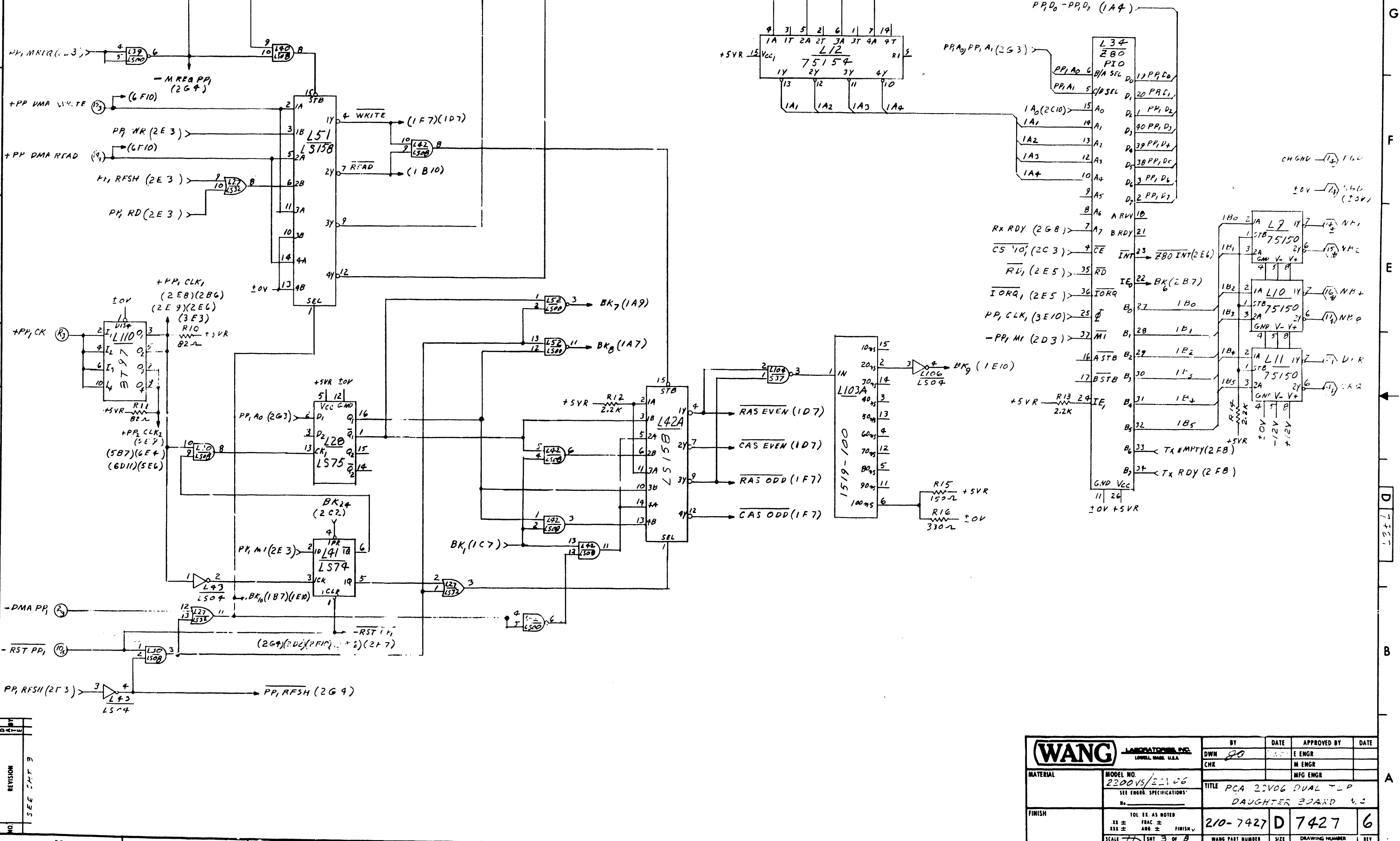
THIS DRAWING AND THE DATA SHOWN THERE ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



NO.	REVISION
1	55E 1-8

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200VS/22VC6 SEE ENGR. SPECIFICATIONS	DWH		E ENGR	
FINISH	TOI EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	CHR		M ENGR	
TITLE PCA 22V06 DUAL TLP DAUGHTER BOARD NC		210-7427 D		7427	6
SCALE: 1:1 SHT 2 OF 2		WANG PART NUMBER		SIZE	DRAWING NUMBER

THIS DRAWING AND THE DATA SHOWN THERE ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THE DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



REV	DATE	BY
1		

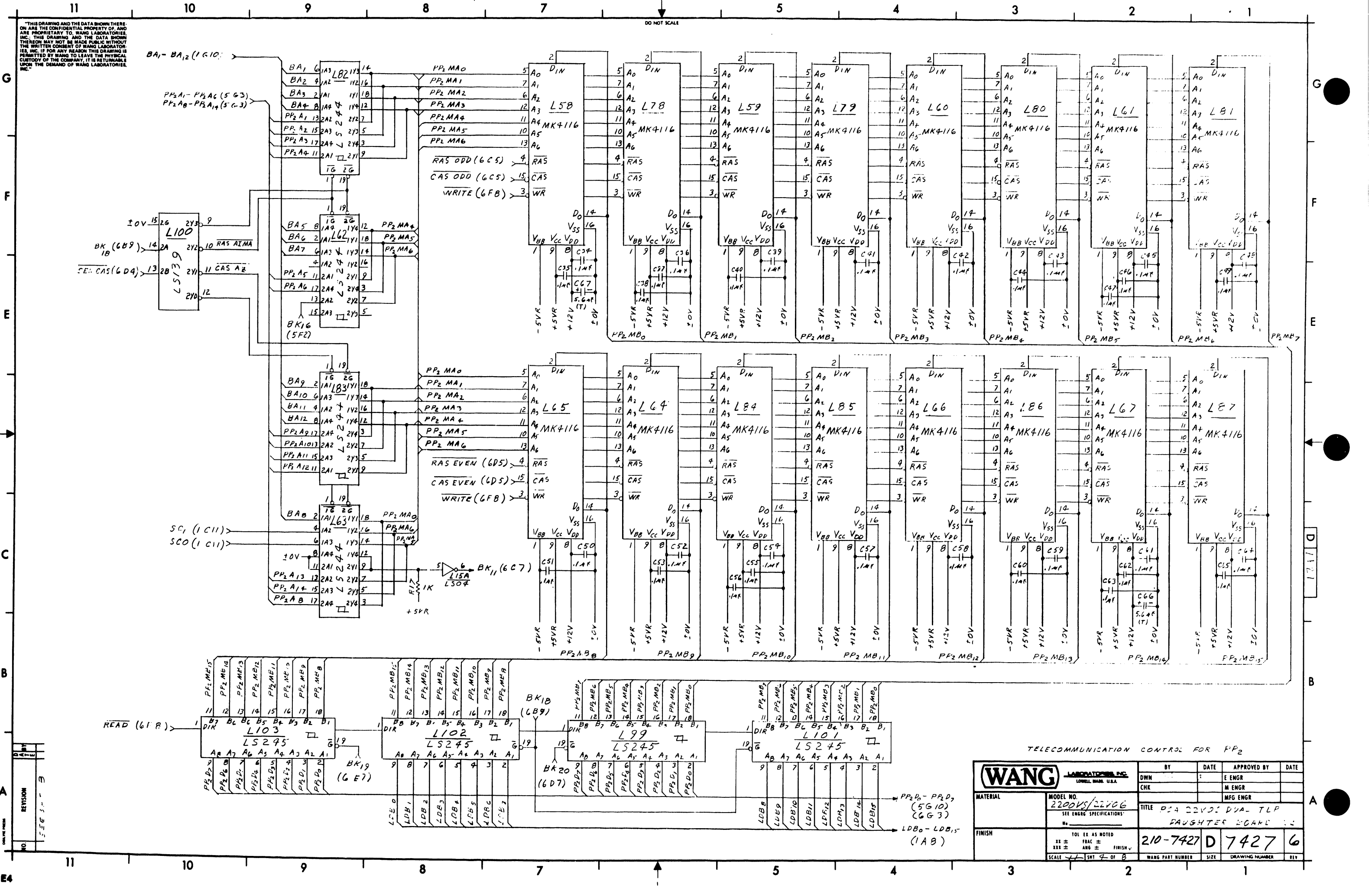
NO	REVISION	DATE	BY
	SEE CHIT 3		

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWH		E ENGR	
		CHK		M ENGR	
				MFG ENGR	
MATERIAL	MODEL NO. 2300VS/22106 SEE ENGR SPECIFICATIONS	TITLE PCA 2306 DUAL T-P DAUGHTER BOARD &C			
FINISH	TOL EX. AS NOTED .XX ±    FRAC ± XXX ±    ANG ±    FINISH	210-7427	D	7427	6
SCALE	1:1 SHT 3 OF 8	WAVE PART NUMBER	SIZE	DRAWING NUMBER	REV

DATE: 11/21/68

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE



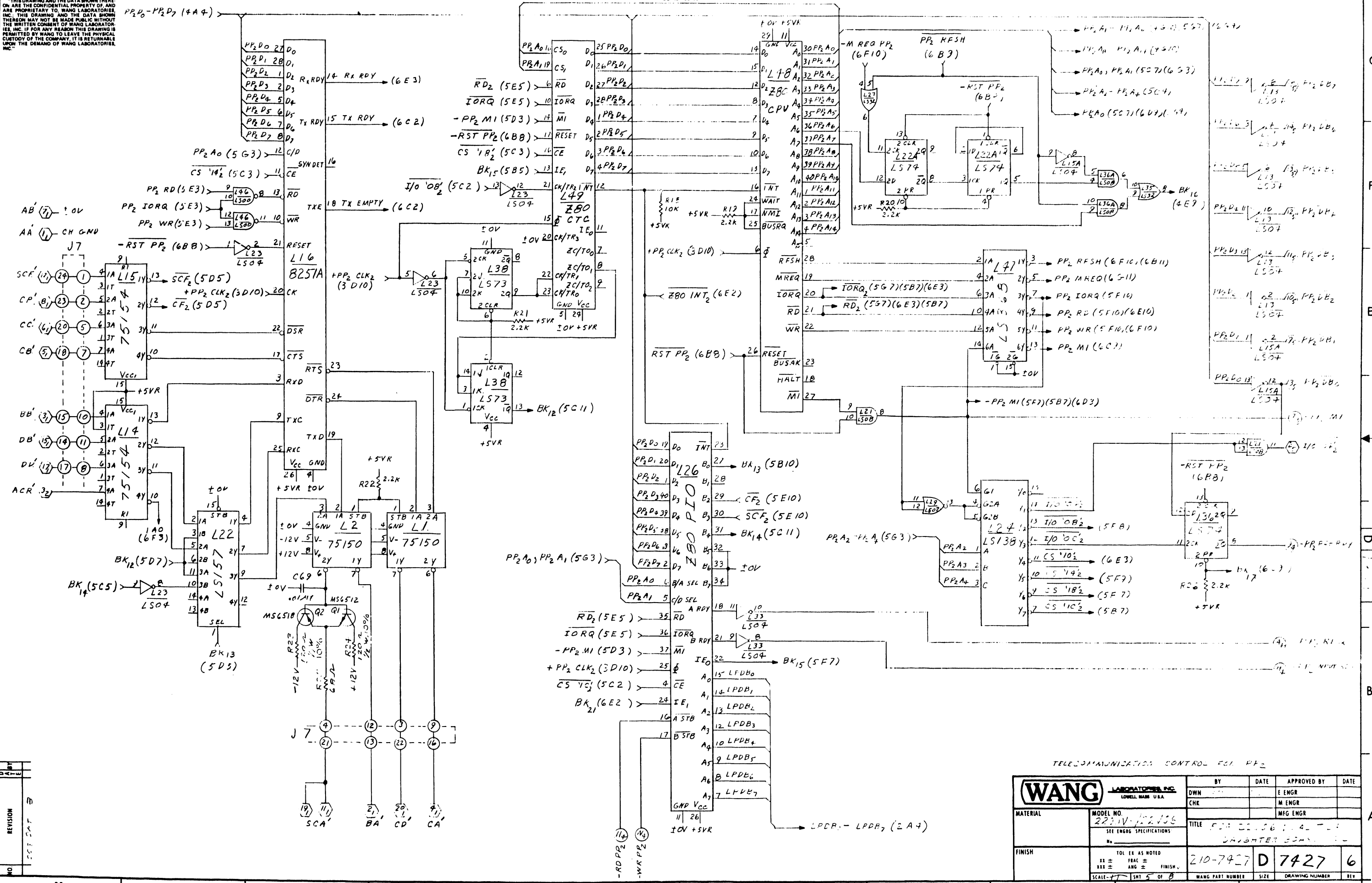
TELECOMMUNICATION CONTROL FOR PP2

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200VS/22VCG SEE ENGR SPECIFICATIONS	DWN		E ENGR	
FINISH	TOL EE AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	CHK		M ENGR	
	SCALE 1/16" = 1"	TITLE PP2 22VCG DUAL TLP DAUGHTER BOARD		MFG ENGR	
		210-7427	D	7427	6
		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

NO.	REVISION



THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

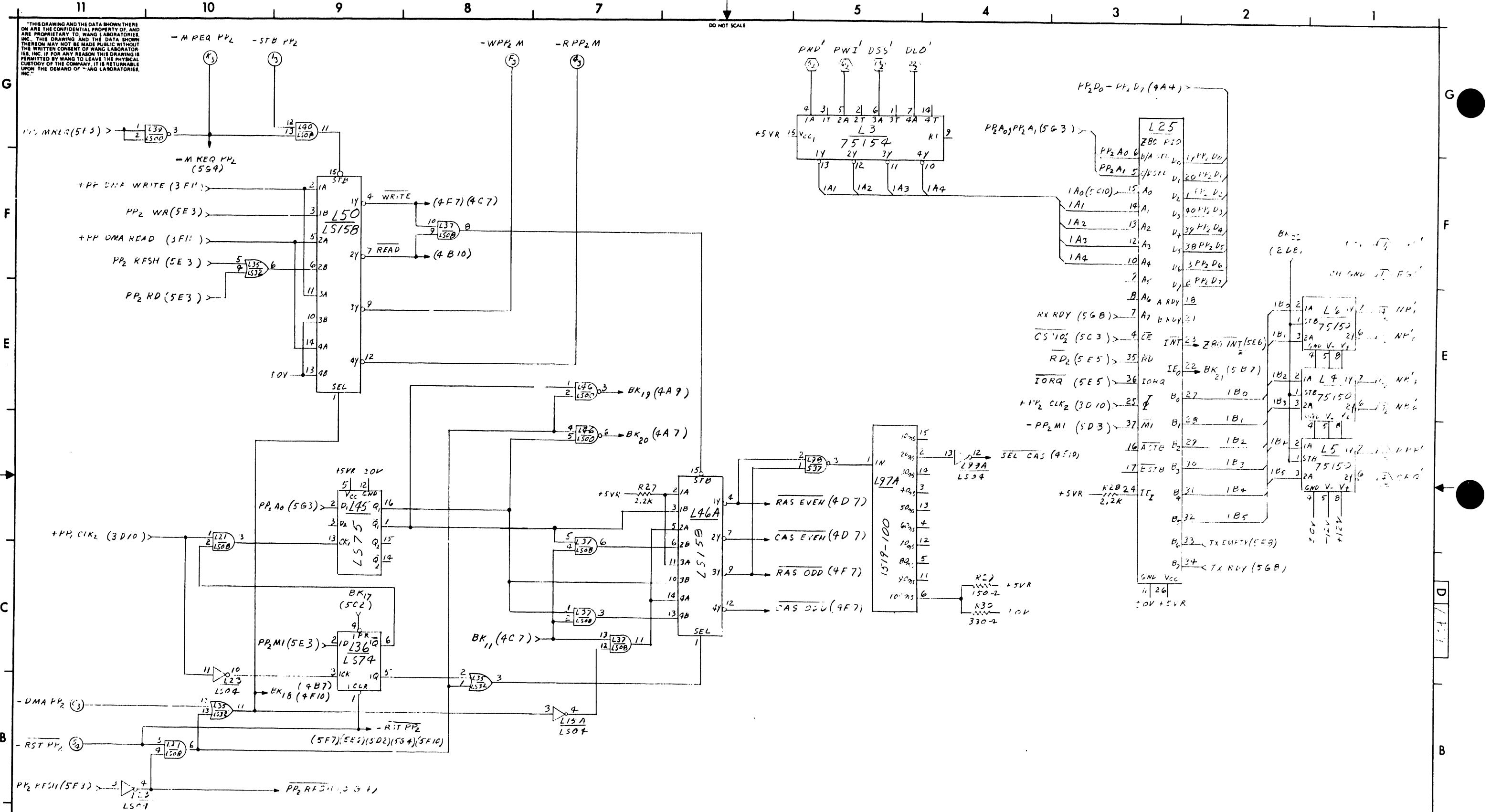


NO	REVISION	DATE	BY	DATE	BY
1					

TELECOMMUNICATIONS CONTROL FOR PDP-11

	BY	DATE	APPROVED BY	DATE
	DWN		E ENGR	
MATERIAL MODEL NO. 2231V-122536 SEE ENGR SPECIFICATIONS No.	CHK		M ENGR	
			MFG ENGR	
FINISH	TITLE		210-7427	6
	DAUGHTER BOARD			
TOLERANCES AS NOTED		210-7427	D	7427
XX ±	FRACTION			
XXX ±	ANGLE			
SCALE: 1/8"	SHEET 5 OF 8	WANG PART NUMBER	SIZE	DRAWING NUMBER

"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."



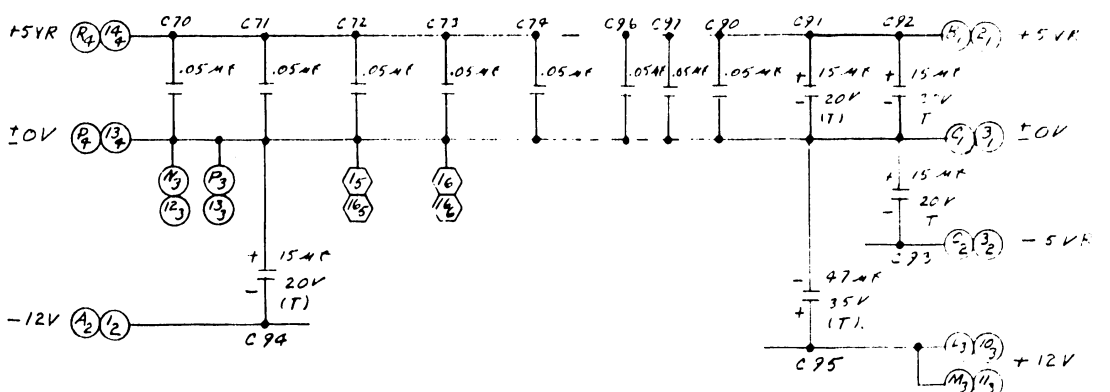
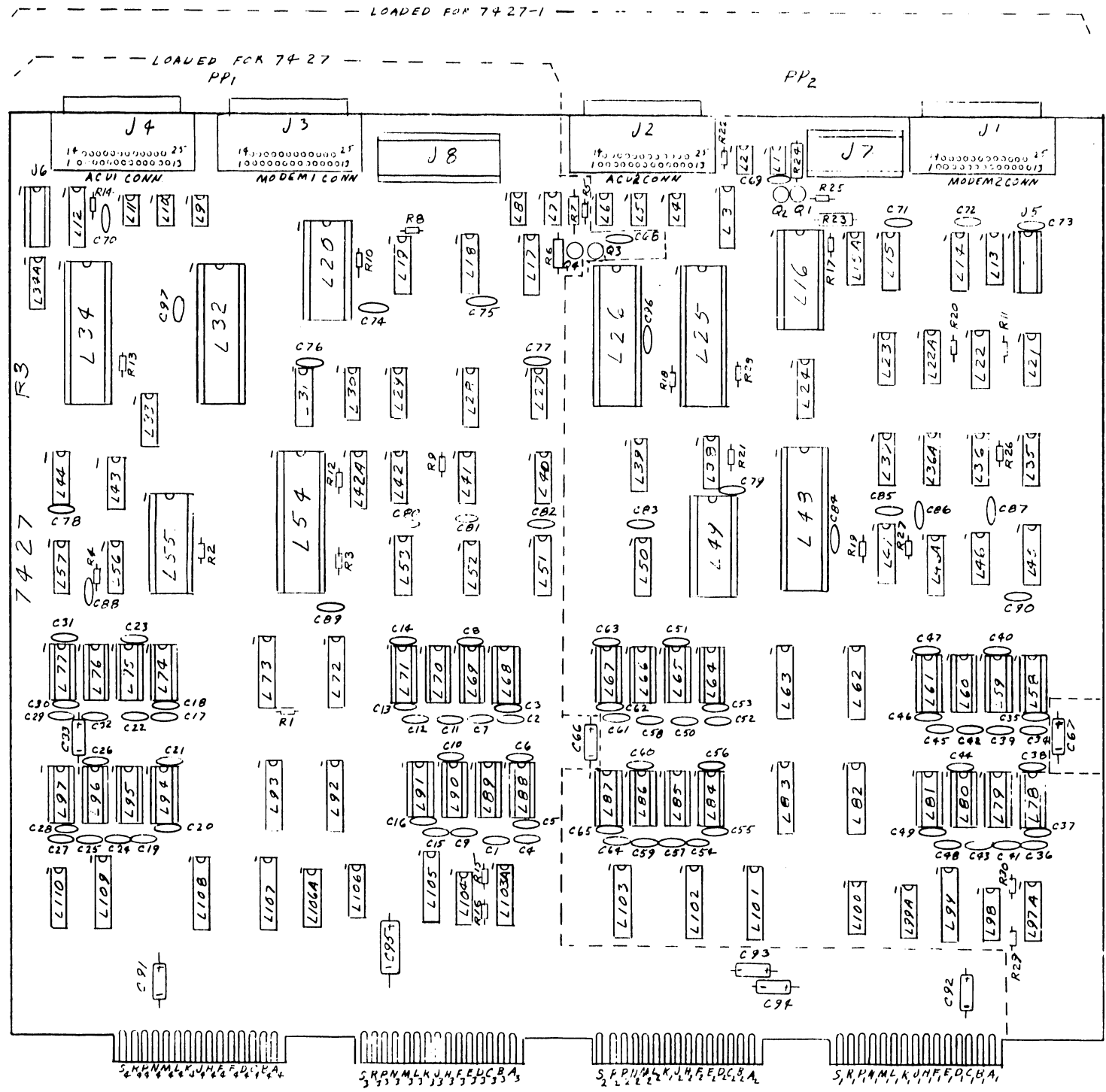
TELECOMMUNICATIONS CONTROL FOR PP2

REV	BY	DATE

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. 220015/22150	CHK		M ENGR	
	SEE ENGR SPECIFICATIONS			MFG ENGR	
	No.			TITLE PP2 CONTROL LOGIC DAUGHTER BOARD NC	
FINISH	TOL EX AS NOTED			8B-7427 D	7427 6
	XX ± FRAC ± FINISH				
	XXX ± ANG ± FINISH				
	SCALE 7-1 SMT 1 OF 6				
				WANG PART NUMBER	SIZE
				DRAWING NUMBER	REV

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE

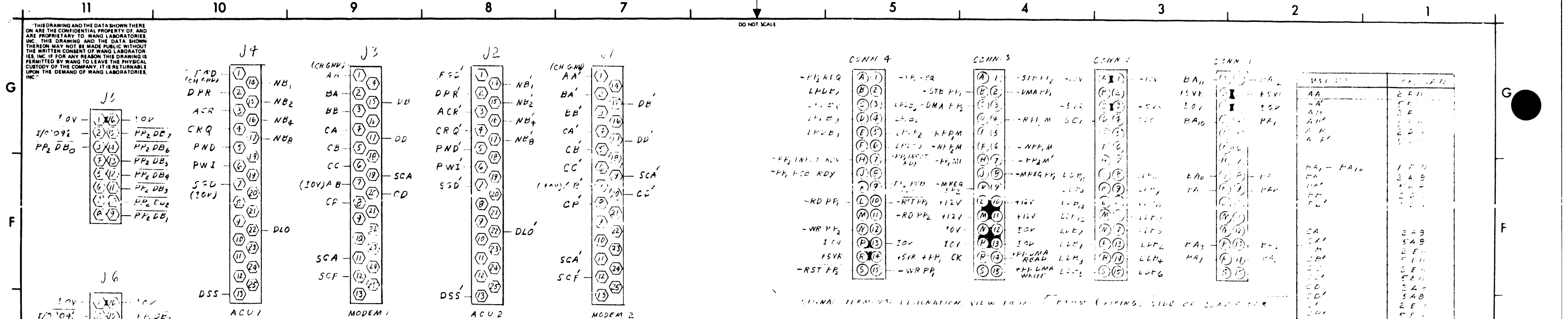


NO.	REVISION

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200V, 22V	DWN		E ENGR	
	SEE ENGR. SPECIFICATIONS	CHR		M ENGR	
				MFG ENGR	
FINISH	TOL. EX. AS NOTED	TITLE PCA 22V06 DUAL TLP DAUGHTER BOARD NC			
	XX ± FRAC ±	20-7427	D	7427	6
	XXX ± ANG ± FINISH	WANG PART NUMBER	SIZE	DRAWING NUMBER	BY
	SCALE 1/8" = 1"				

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



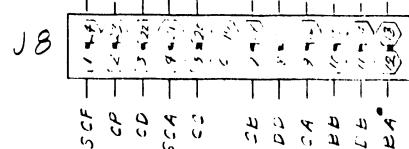
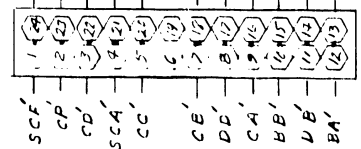
LOCATION	W. PART NO.	TYPE
L12, 13, 14, 15, 16, 17	376-0076	15150
L13, 15, 16, 17, 18, 19	376-0077	15154
L13, 15, 16, 17, 18, 19, 20, 21	376-0180	744501
L16, 25	377-0352	B731A
L11, 22	376-0216	7445157
L17, 20, 21, 22, 40, 42	376-0153	744500
L22, 23, 41, 57	376-0155	7445118
L21, 31	376-0294	7445139
L25, 26, 32, 34	377-0342	Z87 PIC
L27, 35, 44	376-0211	744532
L28, 45	376-0312	744575
L29	376-0208	744502
L30, 56	376-0304	744573
L32, 46, 52	376-0207	144500
L40A, 6A, 50, 51	376-0293	7445158
L47, 53	376-0193	7445268
L48, 54	377-0344	Z87 CPU
L49, 55	377-0343	Z87 LTR
L50-61, 64-67, 71, 74-77, 81, 83, 88, 91, 94-97	377-0345	MK + 16
L62, 63, 12, 13, 82, 83, 92, 93	376-0298	7445244
L63, 103A	376-8022	1519-110
L68, 104	376-0296	744537
L99, 101, 102, 103, 105, 107, 108, 109	376-0295	7445045
L70, 106A	376-0226	7445139
L110	376-0199	RT27

MINIEMONIC	COORDINATE
-PP2 REA	3 F 11
-PP2 DBA WHITE	3 F 11
-PP2 INPUT RDY	2 E 1
-PP2 INPUT RDY	5 B 1
-PP2 MI	2 D 1
-PP2 MI	5 D 1
-PP2 PCB RDI	2 C 1
-PP2 PCB RDI	5 C 1
-PP2 REA	2 E 1
-PP2 REA	5 B 1
-PP2 REA	3 G 5
-PP2 REA	6 G 5
-PP2 MI	2 A 6
-PP2 MI	5 A 6
-PP2 M	3 G 7
-PP2 M	6 G 7
-RST PP1	3 F 11
-RST PP2	6 B 11
SC0, SC1	1 C 11
SCA	2 A 9
SCA	5 A 9
SCF	2 E 11
SGD	5 E 11
SGD	3 F 1
SGD	6 F 1
-STB PP1	3 G 10
-STB PP2	6 G 10
-WPP1 M	3 G 9
-WPP2 M	6 G 9
-WR PP1	2 A 6
-WR PP2	5 A 6

NOTE:  
 1. LOCAL ASSEMBLY FOR PARTS 7427-1  
 2. ALL RES. ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

COMPONENT	W. PART NO.	TYPE
R2 (1E)	330-4011	10K 1/4W 5%
R3, 4, 5, 9, 12, 13, 14, 19, 22, 26, 27, 28	330-3023	2.2K 1/4W 5%
R6, 7, 23, 24	331-2012	120Ω 1/2W 10%
R8, 25	330-1068	68Ω 1/4W 5%
R10, 17L	330-1083	82Ω 1/4W 5%
R15, 22	330-2016	150Ω 1/4W 5%
R16, 20	330-2034	330Ω 1/4W 5%
R1, 17	330-3011	1K 1/4W 5%
C1-32, 34, 35	300-1930	1μF 50V CER
C33, 66, 67	300-4017	5.6μF 35V (T)
C68, 69	300-1903	101μF 50V CER
C70, 71, 75, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97	300-1900	105μF 12V CER
C91-94	300-4024	154μF 20V (T)
C75	300-4034	41μF 20V (T)
(A1), 3	375-1012	1MPS 6514
(A2), 4	375-1014	MPS 6518
(U1), 2, 3, 4	350-1047	25PIN CONN.
(J5), 6, 2, 58-61, 64-69, 68-71, 74-77, 78-81, 82-85, 88-91, 94-97	376-9005	40PIN SOCKET
(L16), 20, 49, 55	376-2015	Z87 PIN SOCKET
(L25, 26, 32, 34, 35, 40, 42, 49, 54)	376-9011	40PIN SOCKET

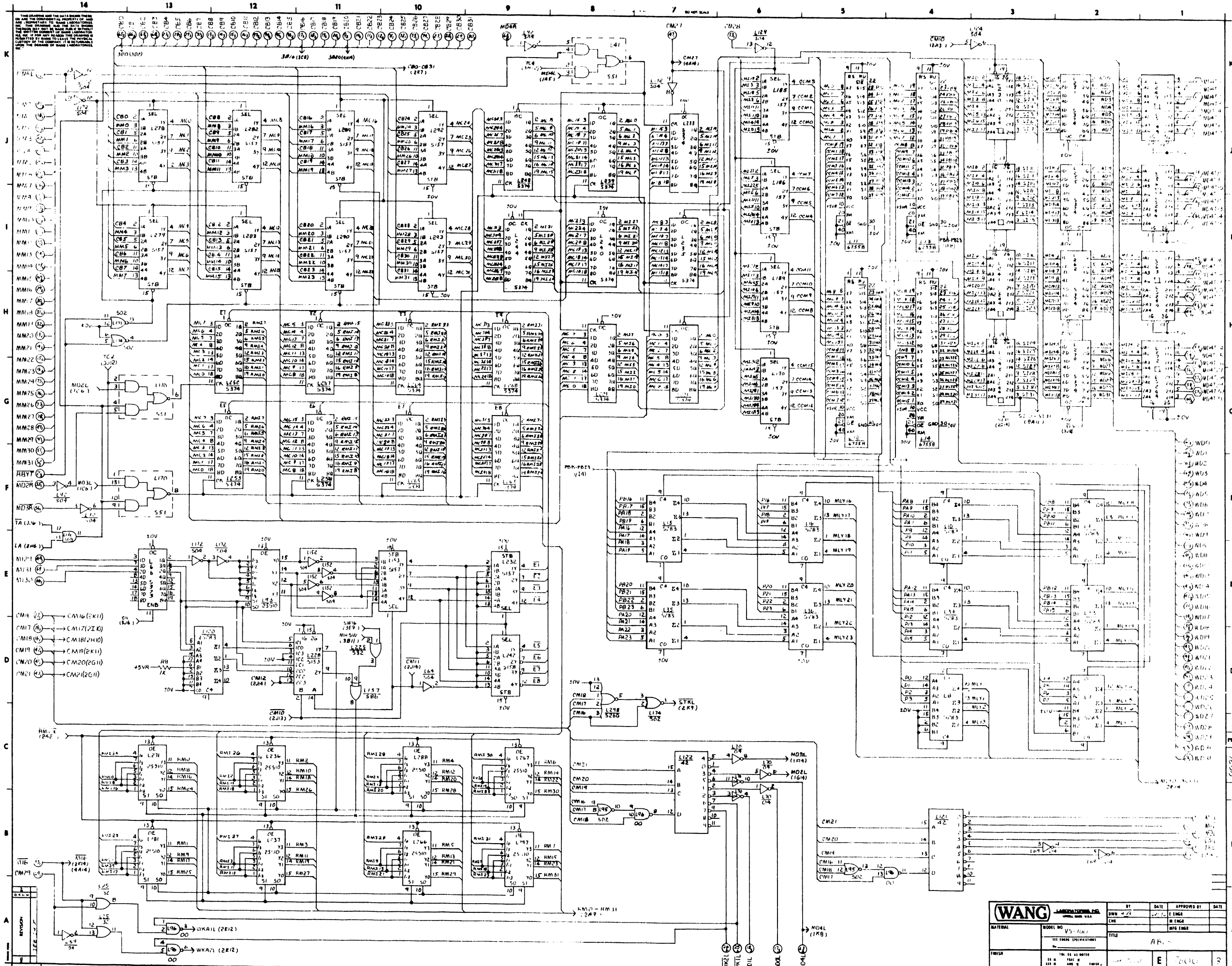
I.C. TYPE	LOCATION	SPACE
74LS02	L29	2
74LS04	L15A	1
	L99A	5
	L106	4
74LS08	L36A	2
74LS32	L44	2
74LS37	L98	3
	L109	3
74LS75	L28	1
	L95	1
74LS139	L100	1
	L106A	1
R1, 27	L110	1



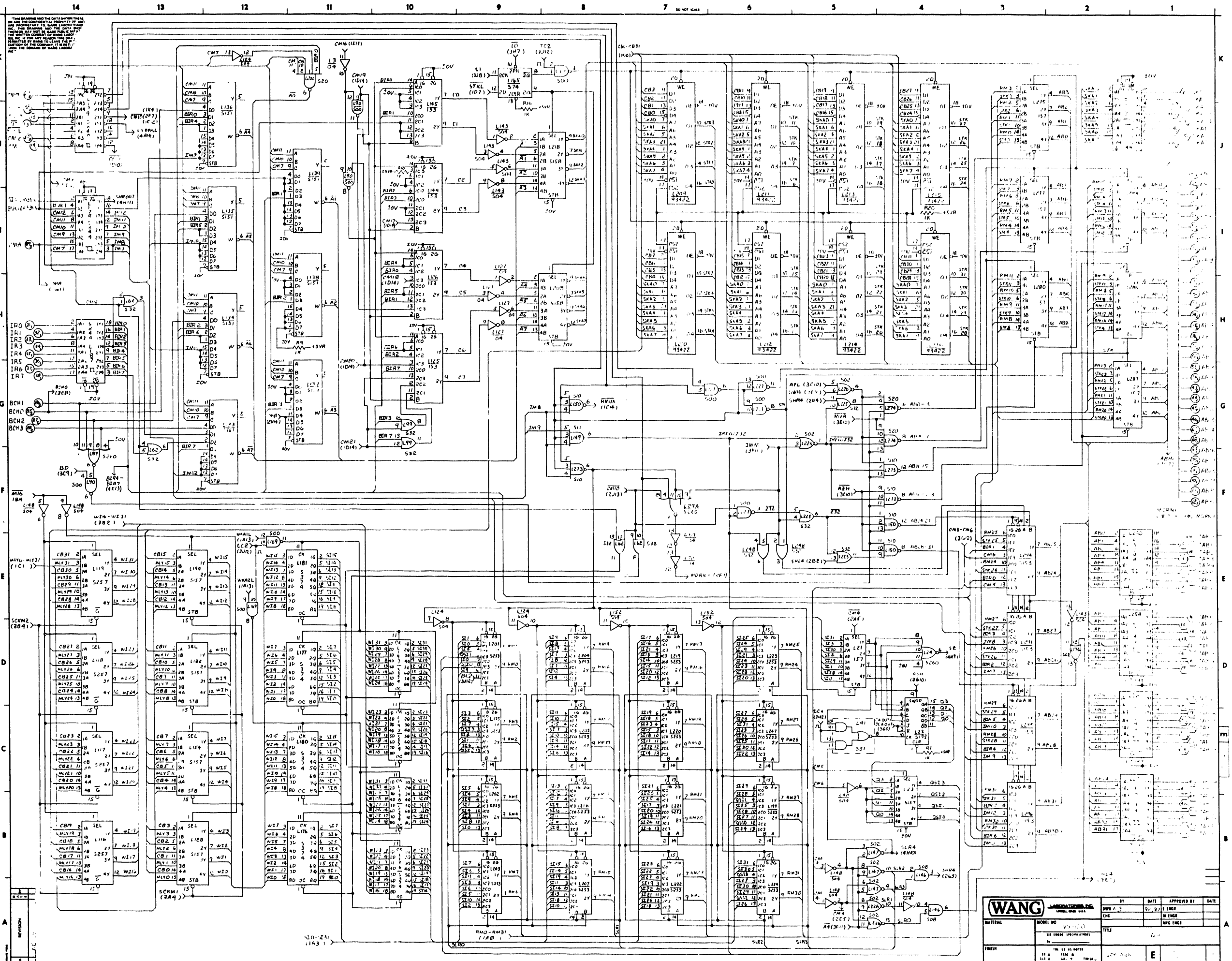
NO.	REVISION	DATE	BY	CHKD.	APP'D.	DESCRIPTION
1	...	...	...	...	...	...
2	...	...	...	...	...	...

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 22001/22406	DWN		E ENGR	
	SEE ENGR SPECIFICATIONS	CHR		M ENGR	
FINISH	TOL. EX. AS NOTED	TITLE: PCA 22000, 22400, 22406			
	1/16 ± FRACTION ± FINISH	210-7427 D 7427 6			
	SCALE: 1/8" = 1"	WANG PART NUMBER SIZE DRAWING NUMBER REV.			

E. REV.  
 7427 7427-1  
 1 1



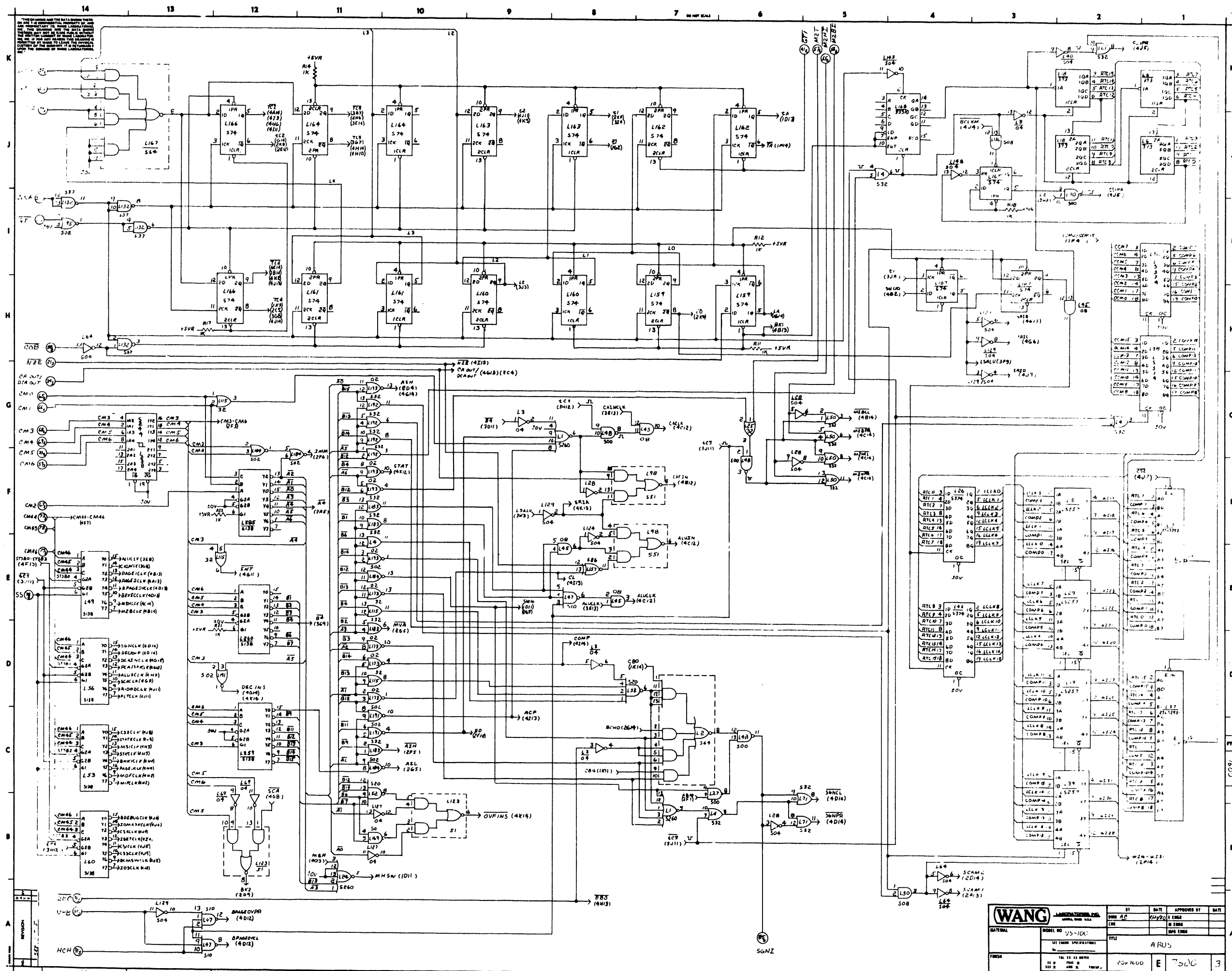
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. V5-1000		OWN	4-22	E. ENGA	
TITLE		A. B.			
DRAWING NUMBER		E 7000			
SCALE		1/8" = 1"			



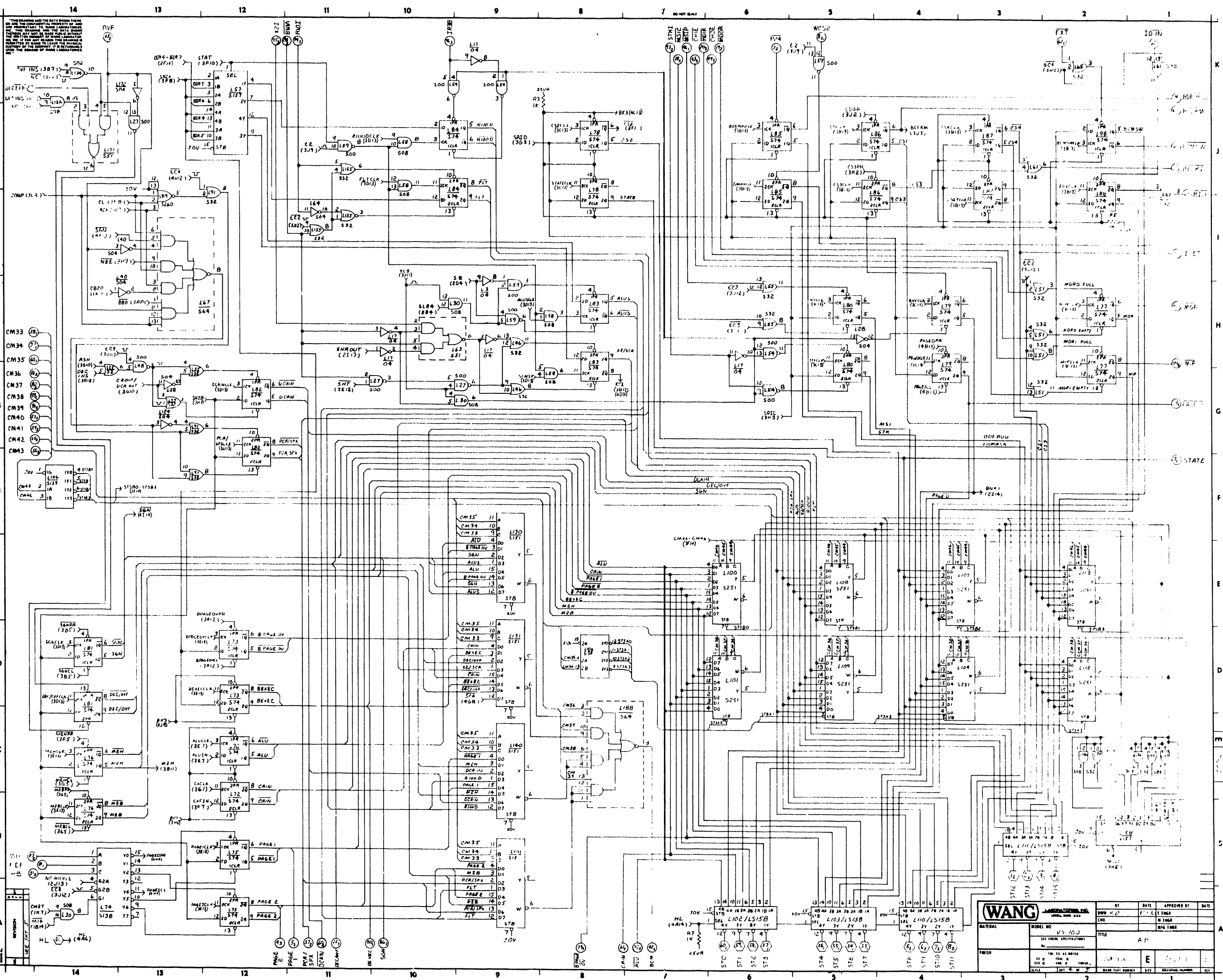
THIS DRAWING AND THE DATA SHEET THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT IN CONFIDENTIALITY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. DATE 11-15-83 BY SP-6 JMS/STW

REVISION	DATE	BY	APPROVED BY

<b>WANG</b> LABORATORIES, INC.		DATE	APPROVED BY
MODEL NO. 720C		DATE	DATE
SERIAL NO. 11111		DATE	DATE
TITLE		DATE	DATE
DRAWING NO.		DATE	DATE



<b>WANG</b> LABORATORIES, INC.		BT	DATE	APPROVED BY	DATE
MODEL NO. 75-100		REV. A.D.	7/20/61	ENGR.	
SERIAL NO. 10000000000000000000		CHE		ENGR.	
TITLE		ARUS			
DRAWN		E 7500			
CHECKED		3			



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. V5 1003		DATE	APPROVED BY	DATE
TITLE		DATE	APPROVED BY	DATE
DRAWN BY		DATE	APPROVED BY	DATE
CHECKED BY		DATE	APPROVED BY	DATE
DESIGNED BY		DATE	APPROVED BY	DATE
MATERIAL		DATE	APPROVED BY	DATE
FINISH		DATE	APPROVED BY	DATE



These drawings and the data sheets thereon are the property of Wang Laboratories, Inc. and are to be used only for the equipment and systems specified herein. They are not to be used for any other purpose without the written consent of Wang Laboratories, Inc. The drawings are to be used in accordance with the instructions on the drawings. The drawings are to be used in accordance with the instructions on the drawings.

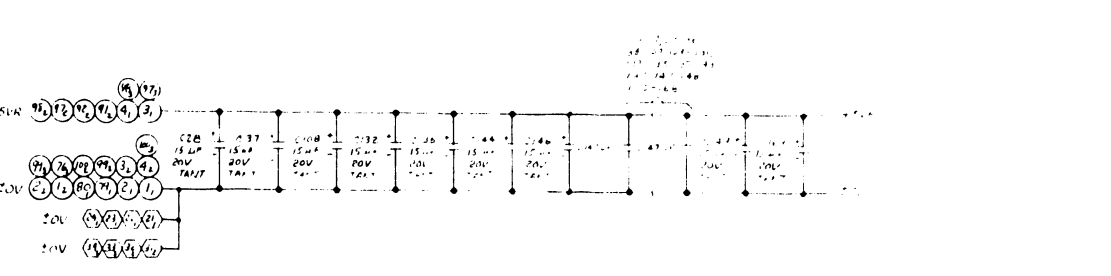
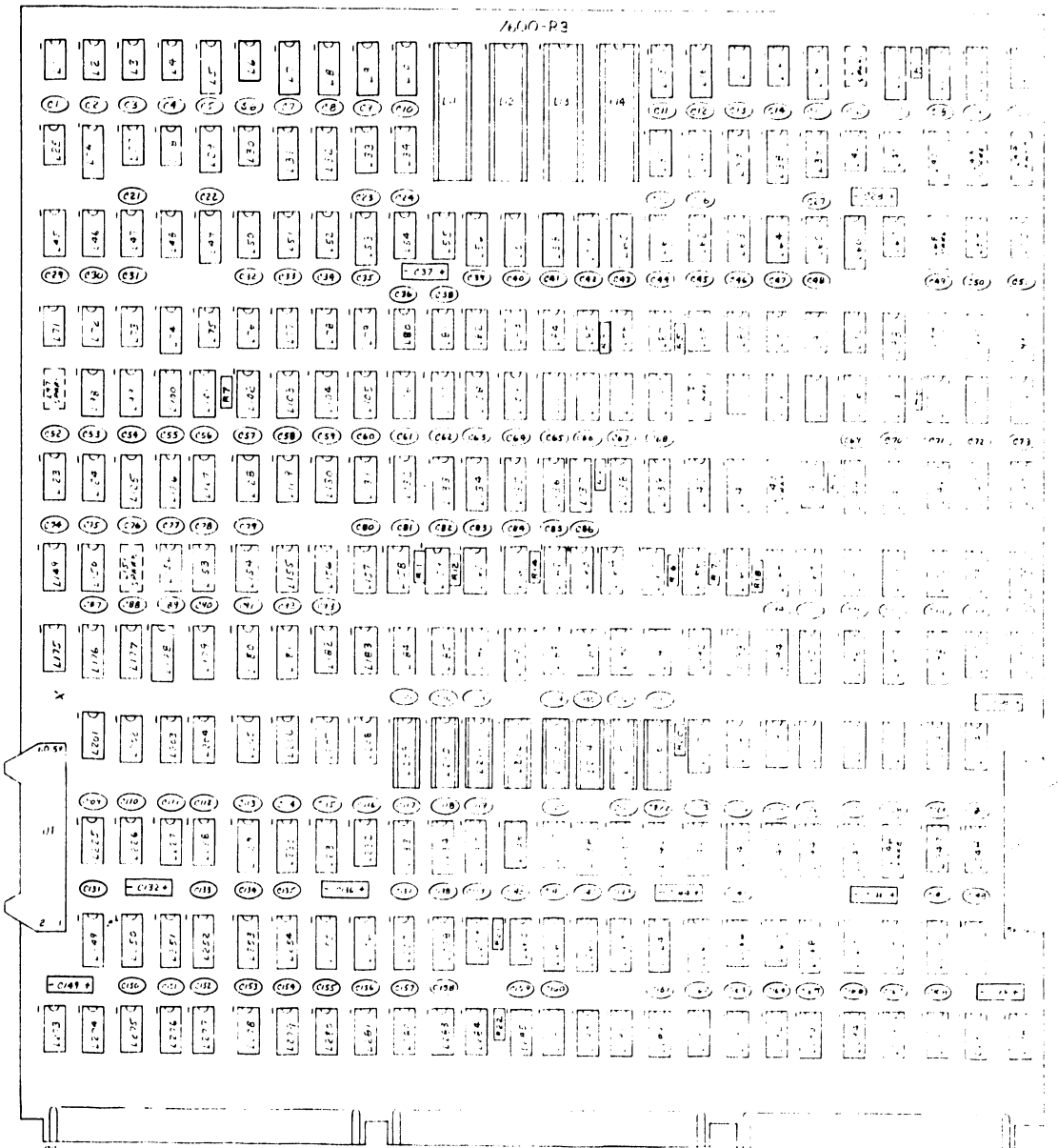
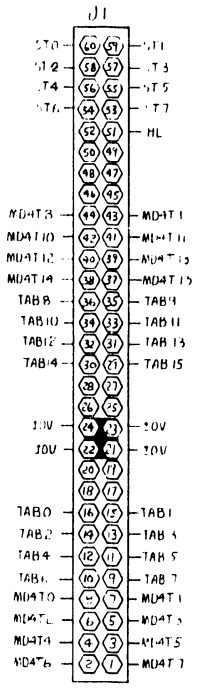
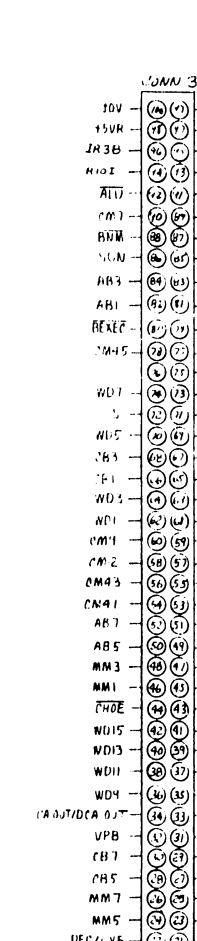
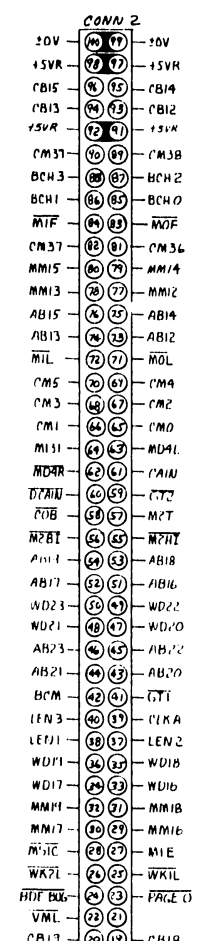
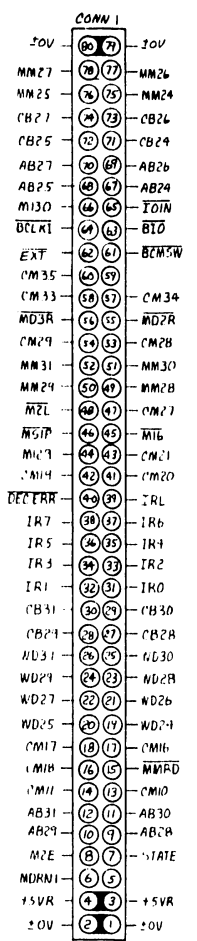
Table with columns for part numbers and descriptions. Includes items like 74502, 74504, 74532, 74551, 74552, 74553, 74554, 74555, 74556, 74557, 74558, 74559, 74560, 74561, 74562, 74563, 74564, 74565, 74566, 74567, 74568, 74569, 74570, 74571, 74572, 74573, 74574, 74575, 74576, 74577, 74578, 74579, 74580, 74581, 74582, 74583, 74584, 74585, 74586, 74587, 74588, 74589, 74590, 74591, 74592, 74593, 74594, 74595, 74596, 74597, 74598, 74599, 74600.

Table with columns: TYPE, LOCATION, PARTS. Lists various components and their locations.

Table with columns: COMPONENT, TYPE, WL PART NO. Lists component types and their part numbers.

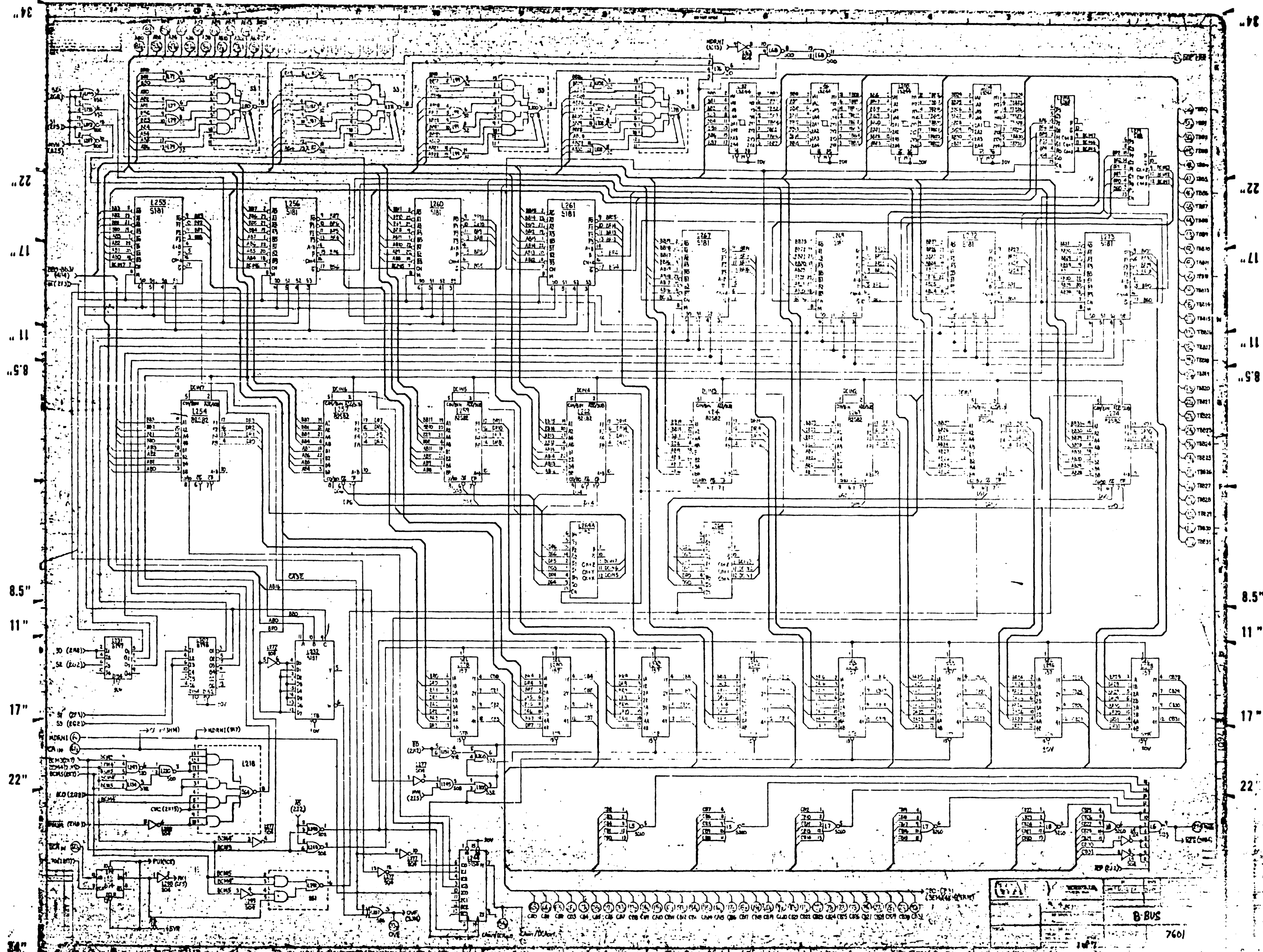
Table with columns: MEMORIC, COORD, MEMORIC, COORD. Lists memory locations and coordinates.

Table with columns: MEMORIC, COORD, MEMORIC, COORD. Lists memory locations and coordinates.



Revision table with columns: REV, DATE, BY, APPR. Lists revisions and their details.

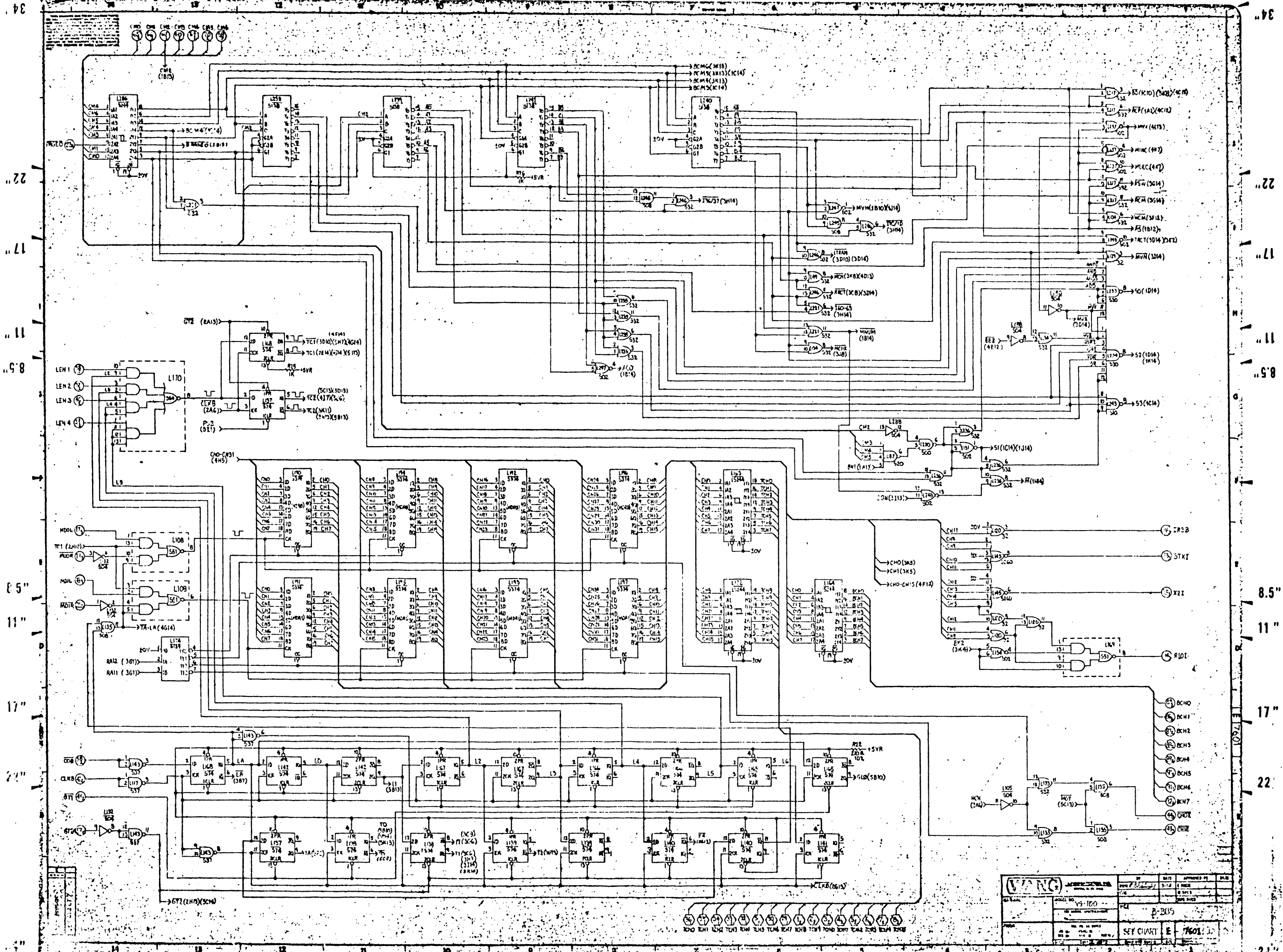
WANG LABORATORIES, INC. drawing header form with fields for MATERIAL, MODEL NO, TITLE, DATE, APPROVED BY, etc.



24  
22  
17  
11  
8.5  
8.5  
11  
17  
22

17  
22  
8.5  
11  
17  
22

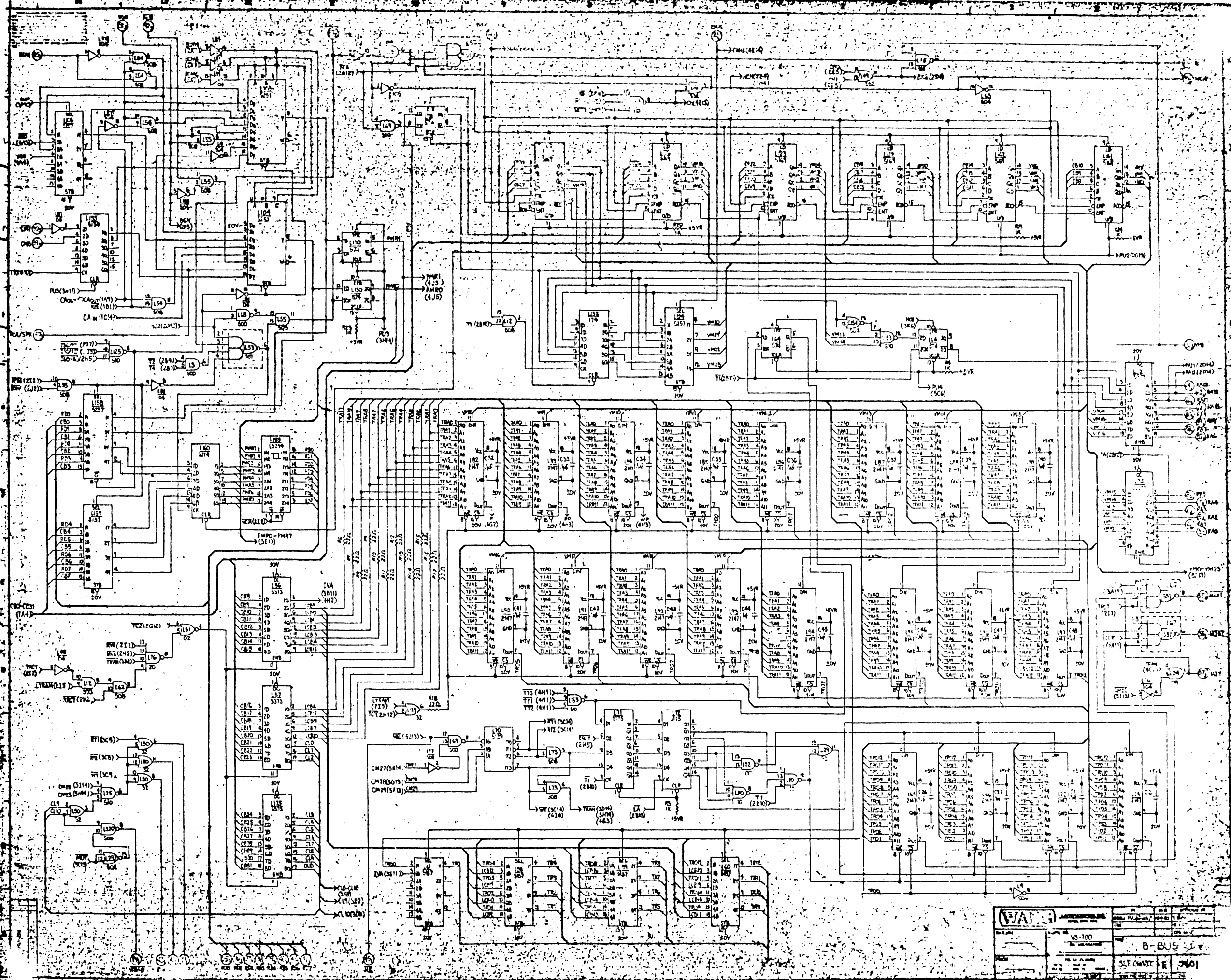
**B-BUS**  
7601



WANG		DATE	APPROVED BY	REV
PROJECT NO.	VS-100	DATE		
DESIGNED BY		DATE		
CHECKED BY		DATE		
TITLE		B-BUS		
DRAWN BY		SEY CHART E		
SCALE		1/8" = 1"		

34"  
22"  
17"  
11"  
8.5"  
8.5"  
11"  
17"  
22"  
34"

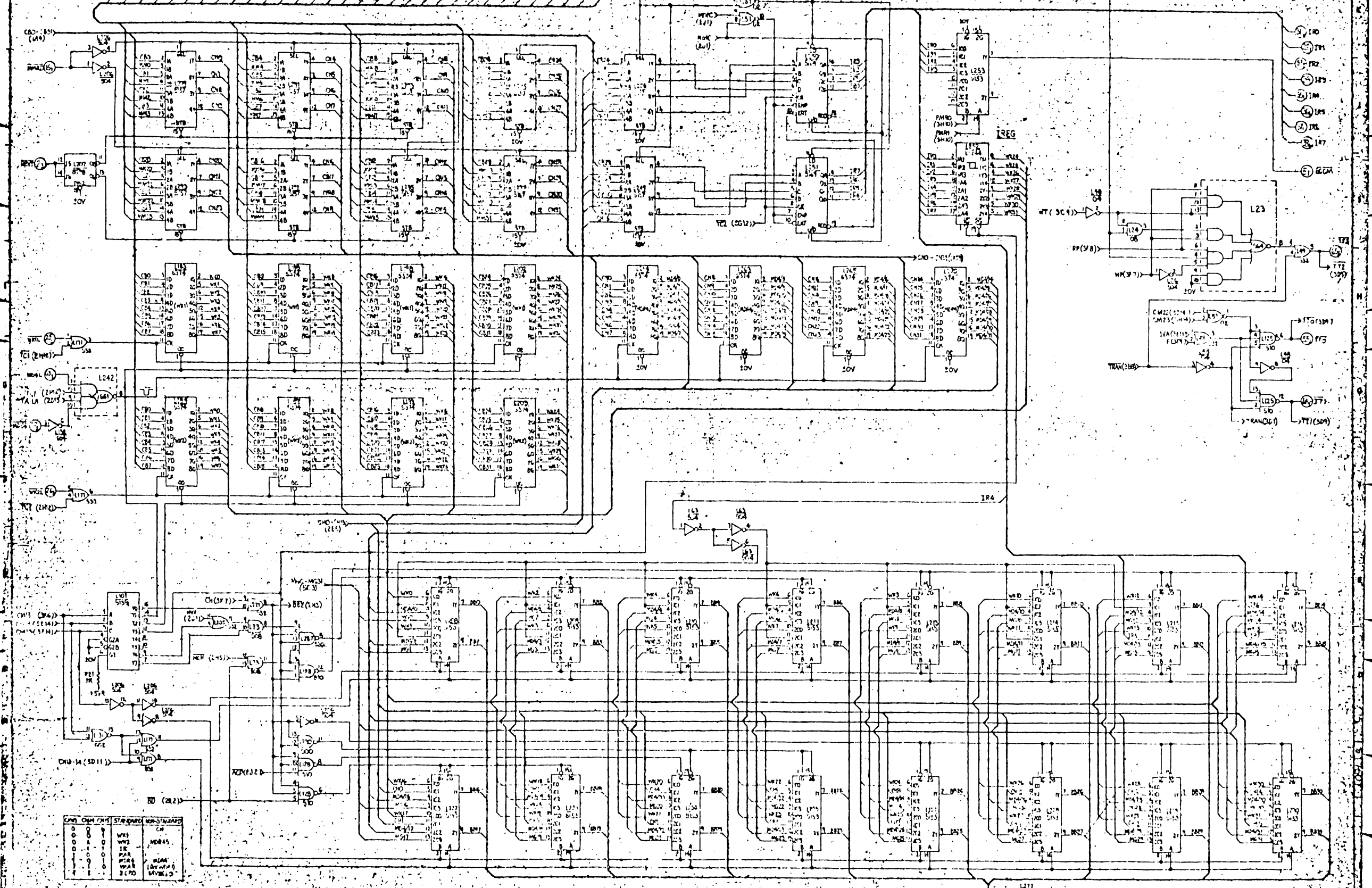
34"  
22"  
17"  
11"  
8.5"  
8.5"  
11"  
17"  
22"  
34"



WAL		VS-100	
		B-BUS	
		SEE CASE E 3601	

34"  
22"  
17"  
11"  
8.5"  
8.5"  
11"  
17"  
22"  
11"  
17"  
22"  
14"

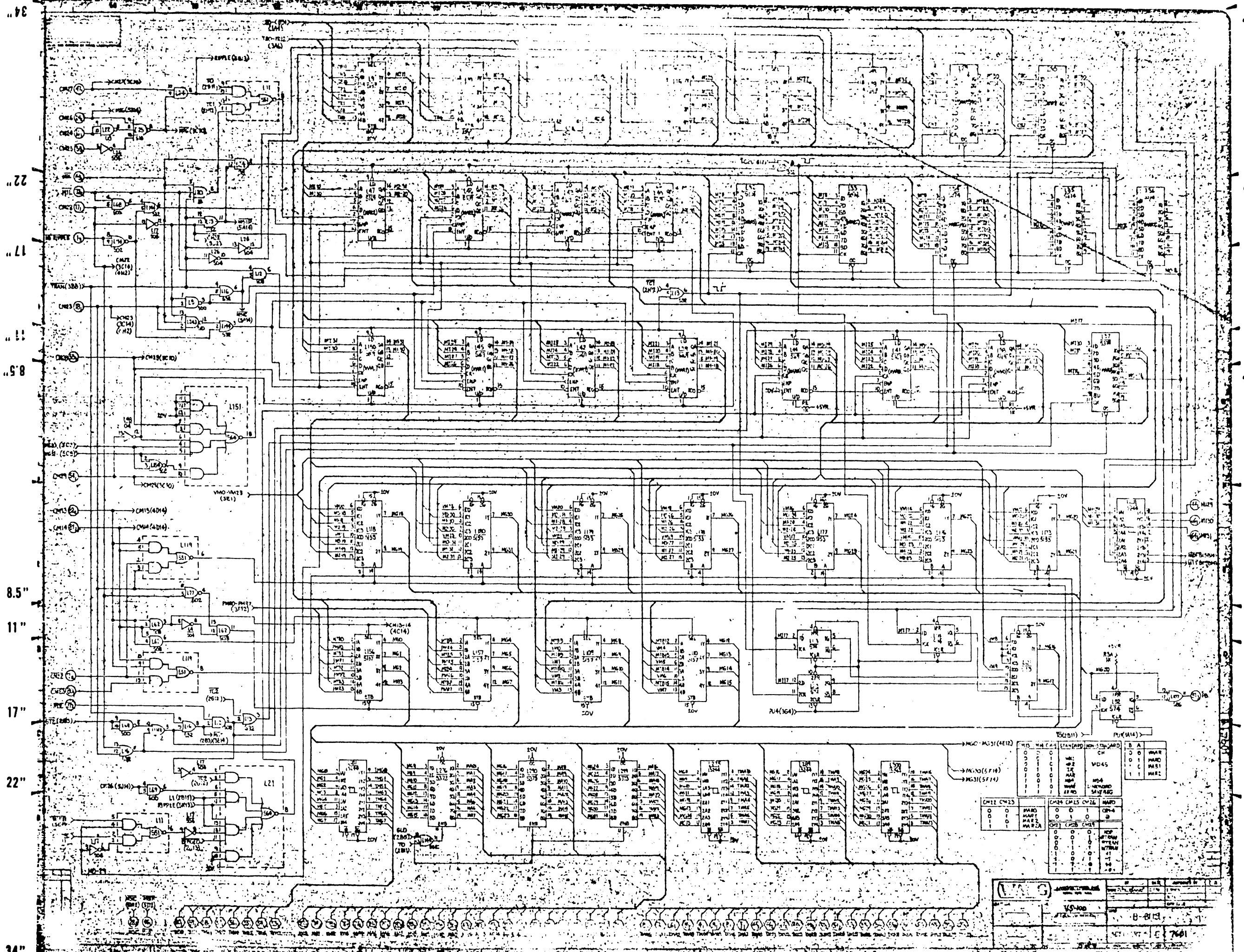
34"  
22"  
17"  
11"  
8.5"  
8.5"  
11"  
17"  
22"  
11"  
17"  
22"



DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA
000	000	000	000	000	000	000	000	000	000
000	001	001	001	001	001	001	001	001	001
001	001	001	001	001	001	001	001	001	001
001	010	010	010	010	010	010	010	010	010
010	010	010	010	010	010	010	010	010	010
010	010	010	010	010	010	010	010	010	010
010	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

B	A	WT	WT	WT	WT	WT	WT
0	0	0	0	0	0	0	0
0	1	0	1	0	1	0	1
1	0	0	1	0	1	0	1
1	1	0	0	1	0	0	1

B-BOS



CM12	CM23	CM44	CM15	CM26	CM4
0	0	0	0	0	0
0	0	0	0	0	0
1	1	1	1	1	1

CM1	CM2	CM3	CM4
0	0	0	0
0	0	0	0
1	1	1	1

CM1	CM2	CM3	CM4
0	0	0	0
0	0	0	0
1	1	1	1

VS-100	B-813	7601
--------	-------	------

34" 14 13 12 11 10 9 8 7 6 5 4 3 2 1

22" 17" 11" 8.5"

8.5" 11" 17" 22"

8.5" 11" 17" 22"

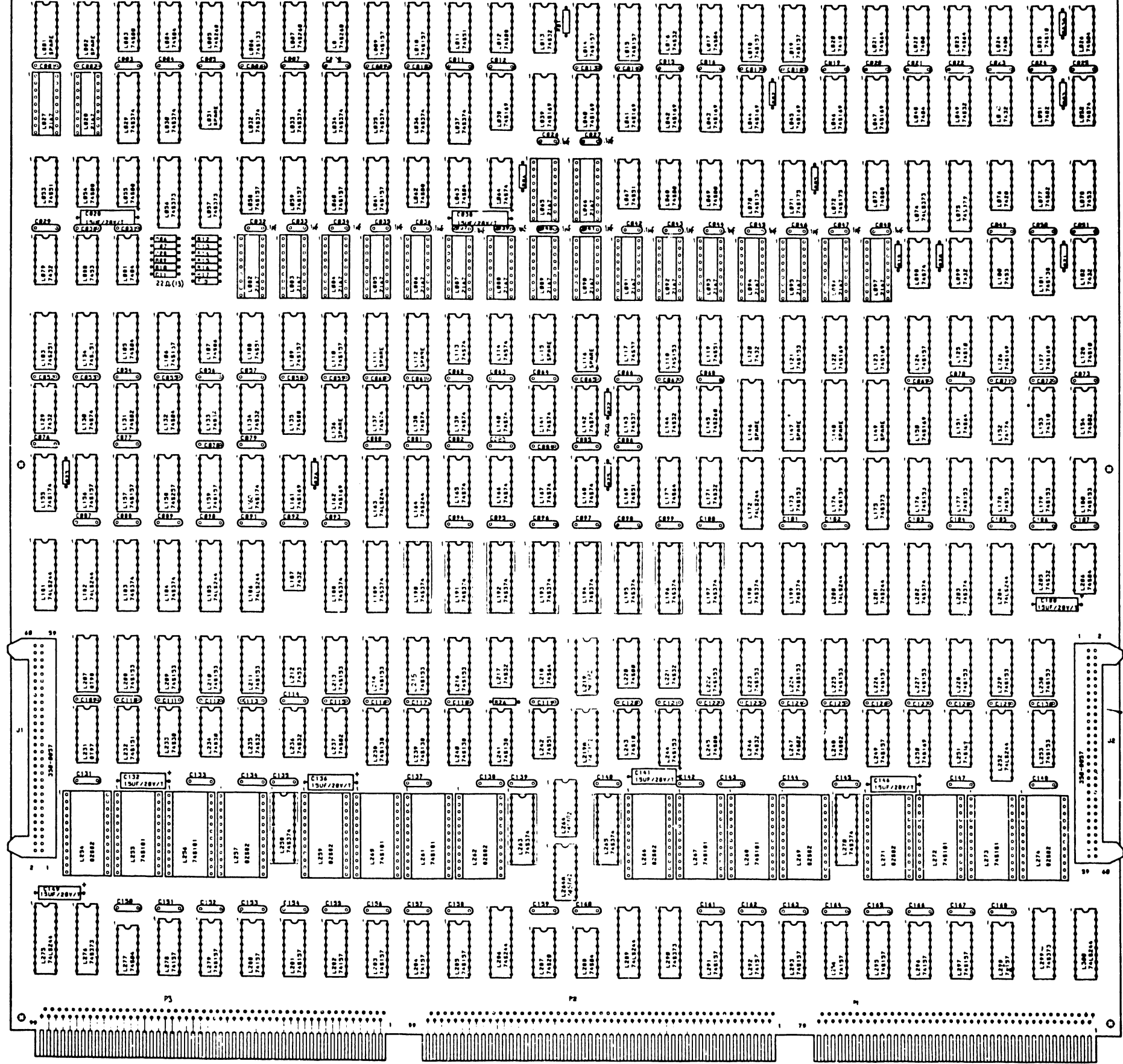
17" 22" 34"

34" 14 13 12 11 10 9 8 7 6 5 4 3 2 1

NOTES:  
1. ALL DIMENSIONS ARE IN 1/4" AND .001" EXCEPT AS NOTED.  
2. ALL CHARACTERS ARE DATA-LITERALS EXCEPT AS NOTED.

SEE SHEET 7

7601-R4

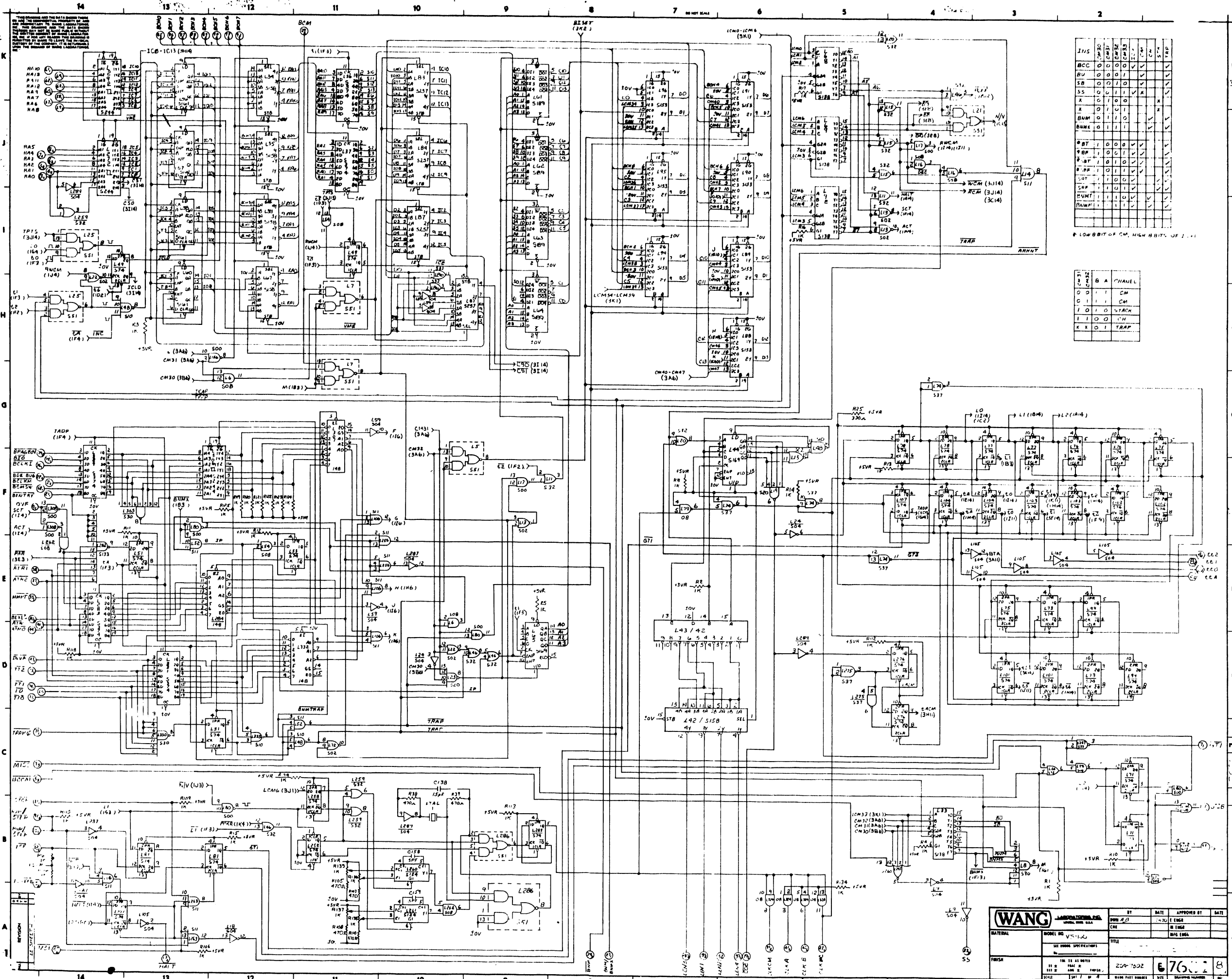


NOTES:  
1. ALL DIMENSIONS ARE IN 1/4" AND .001" EXCEPT AS NOTED.  
2. ALL CHARACTERS ARE DATA-LITERALS EXCEPT AS NOTED.

<b>WANG</b>		BY	DATE	APPROVED BY	DATE
MODEL NO. 45-100		DATE	1958	DATE	1958
TITLE		B-B15			
DRAWN		SEE CHART E 7601			







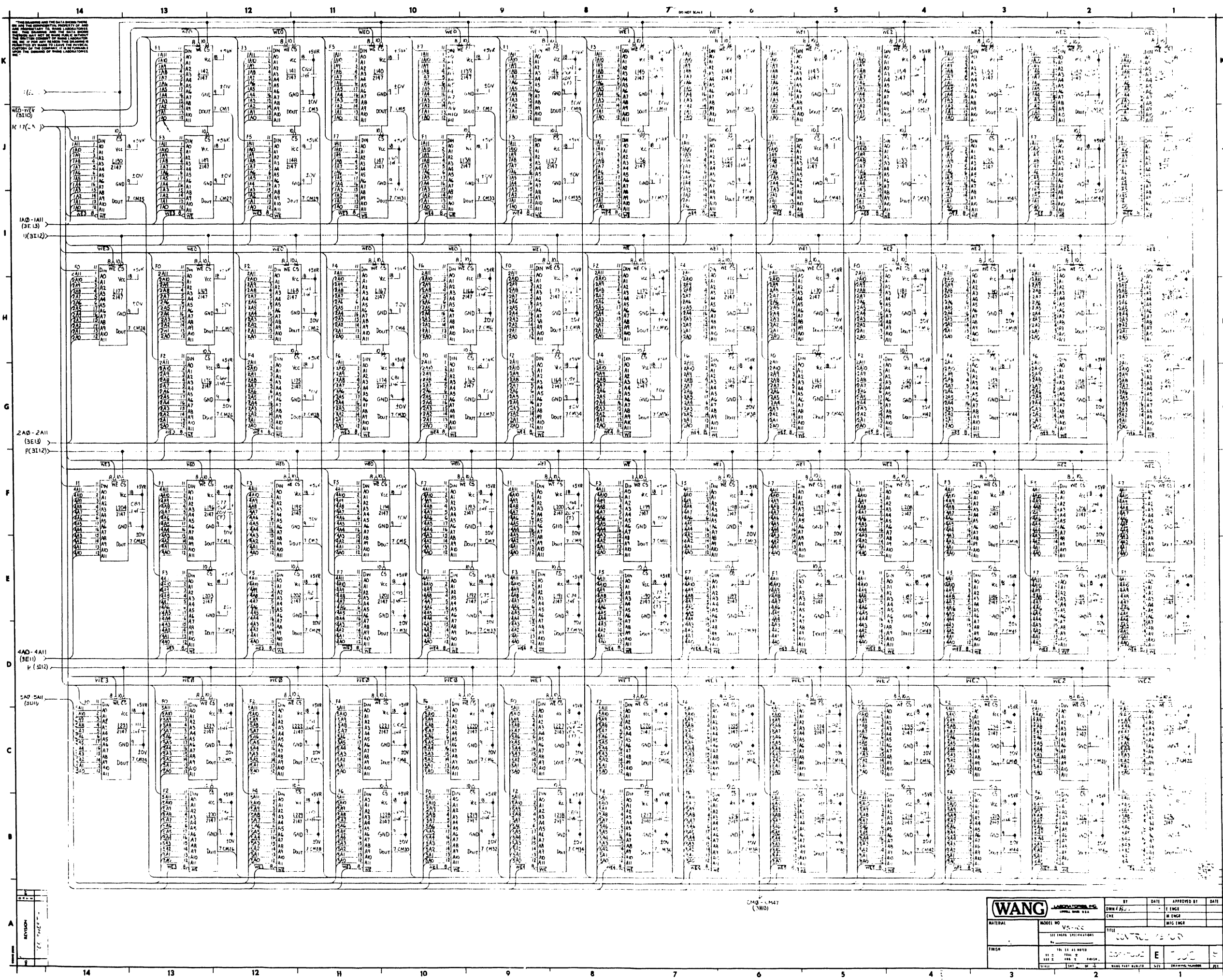
THE INFORMATION ON THIS DRAWING IS THE PROPERTY OF WANG COMPUTER SYSTEMS INC. IT IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF WANG COMPUTER SYSTEMS INC. EQUIPMENT ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF WANG COMPUTER SYSTEMS INC.

INSTRUMENT	TRAP	TRAP	TRAP	TRAP	TRAP	TRAP	TRAP
BCC	0	0	0	0	0	0	0
BU	0	0	0	1	0	0	0
SB	0	0	1	0	0	0	0
SS	0	0	1	0	0	0	0
X	0	1	0	0	0	0	0
X	0	1	0	0	0	0	0
BMM	0	1	1	0	0	0	0
BMM	0	1	1	0	0	0	0
BT	1	0	0	0	0	0	0
YBR	1	0	0	1	0	0	0
YBR	1	0	0	1	0	0	0
YBR	1	0	0	1	0	0	0
SOT	1	1	0	0	0	0	0
SOT	1	1	0	0	0	0	0
SOT	1	1	0	0	0	0	0
BMPT	1	1	0	0	0	0	0
BMPT	1	1	0	0	0	0	0

\* LOW BIT OF CM, HIGH BITS OF L1.

CM	B	A	CHANNEL
0	0	1	CM
0	1	1	CM
1	0	0	TRAP
1	1	0	CM
X	X	0	TRAP

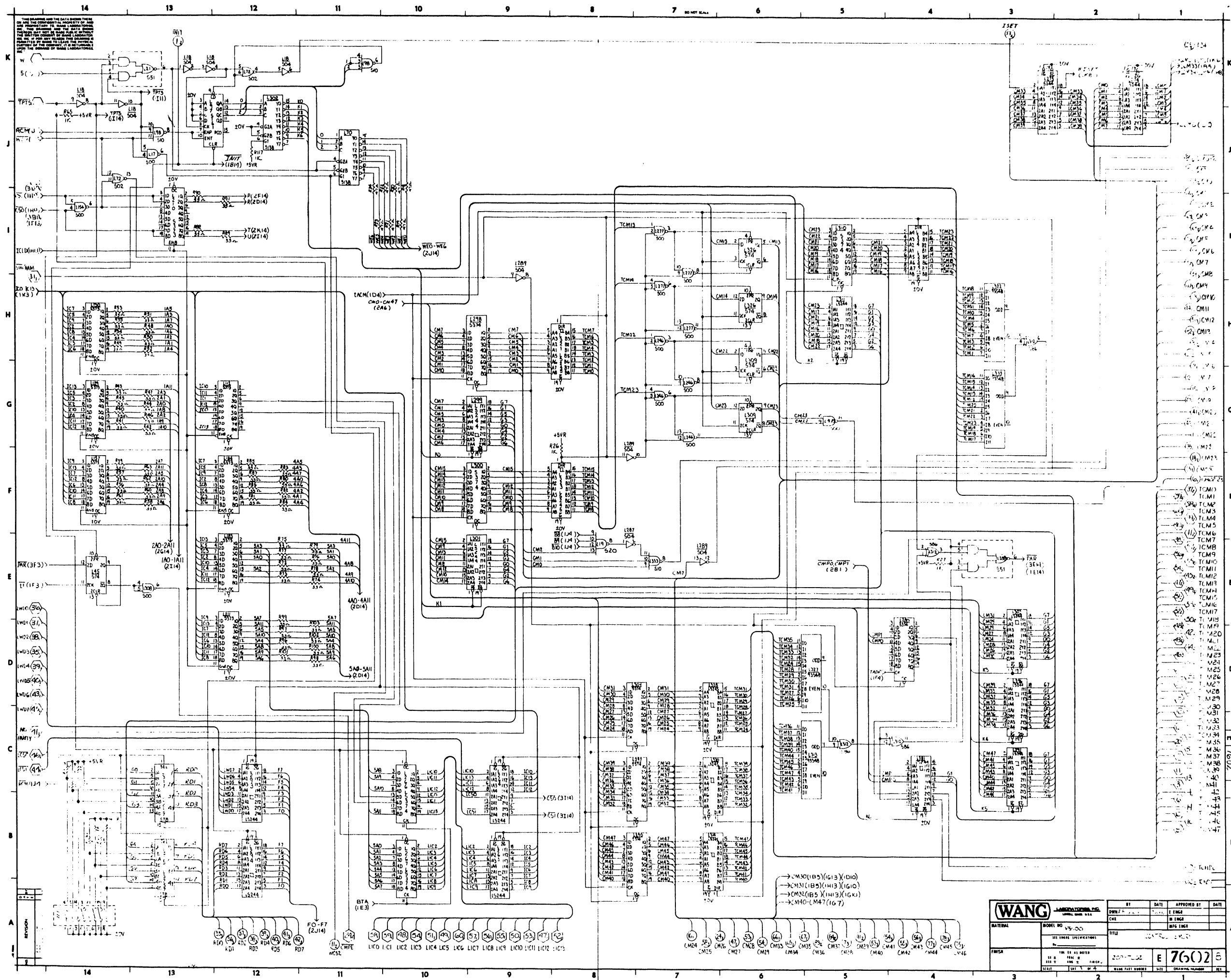
<b>WANG</b> LABORATORIES INC.			
MODEL NO. VN-100		BY	DATE
SEE BOARD OPERATIONS		APPROVED BY	DATE
TITLE		ENGR.	DATE
TR 10 AT 0000		76	8
111 2 100 2			
1111 2 100 2			
11111 2 100 2			



THESE CIRCUITS ARE TO BE INSTALLED IN THE CONTROL PANEL AS SHOWN. THE CIRCUITS ARE TO BE INSTALLED IN THE CONTROL PANEL AS SHOWN. THE CIRCUITS ARE TO BE INSTALLED IN THE CONTROL PANEL AS SHOWN.

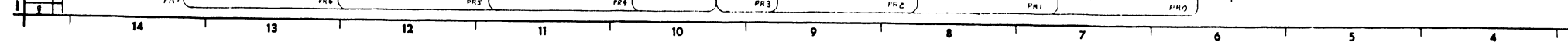
ENG-1047  
(380)

<b>WANG</b>		BY	DATE	APPROVED BY	DATE
MODEL NO. VS-100		DATE	DATE	DATE	DATE
SERIAL NO. 111		TITLE		CONTROL PANEL	
FINISH		E		E	

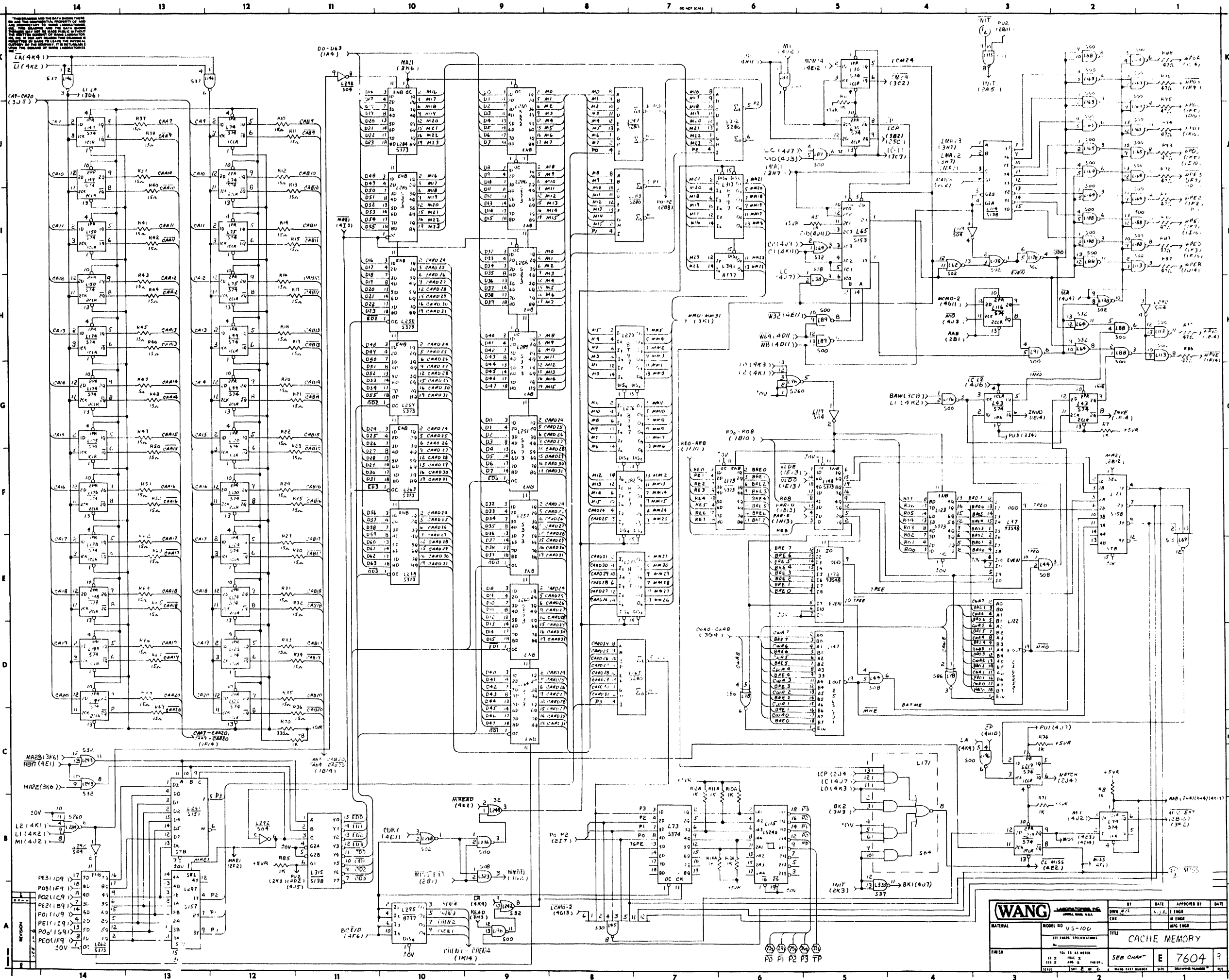


<b>WANG</b> LABORATORIES, INC. COMMERCIAL DIVISION		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. V5-00	OWN'G		ENGR	
311 15000 (SPECIFICATIONS)		CHK		ENGR	
TITLE		E 7602			
REV. 1		7602			
REV. 2		7602			
REV. 3		7602			
REV. 4		7602			
REV. 5		7602			
REV. 6		7602			
REV. 7		7602			
REV. 8		7602			
REV. 9		7602			
REV. 10		7602			

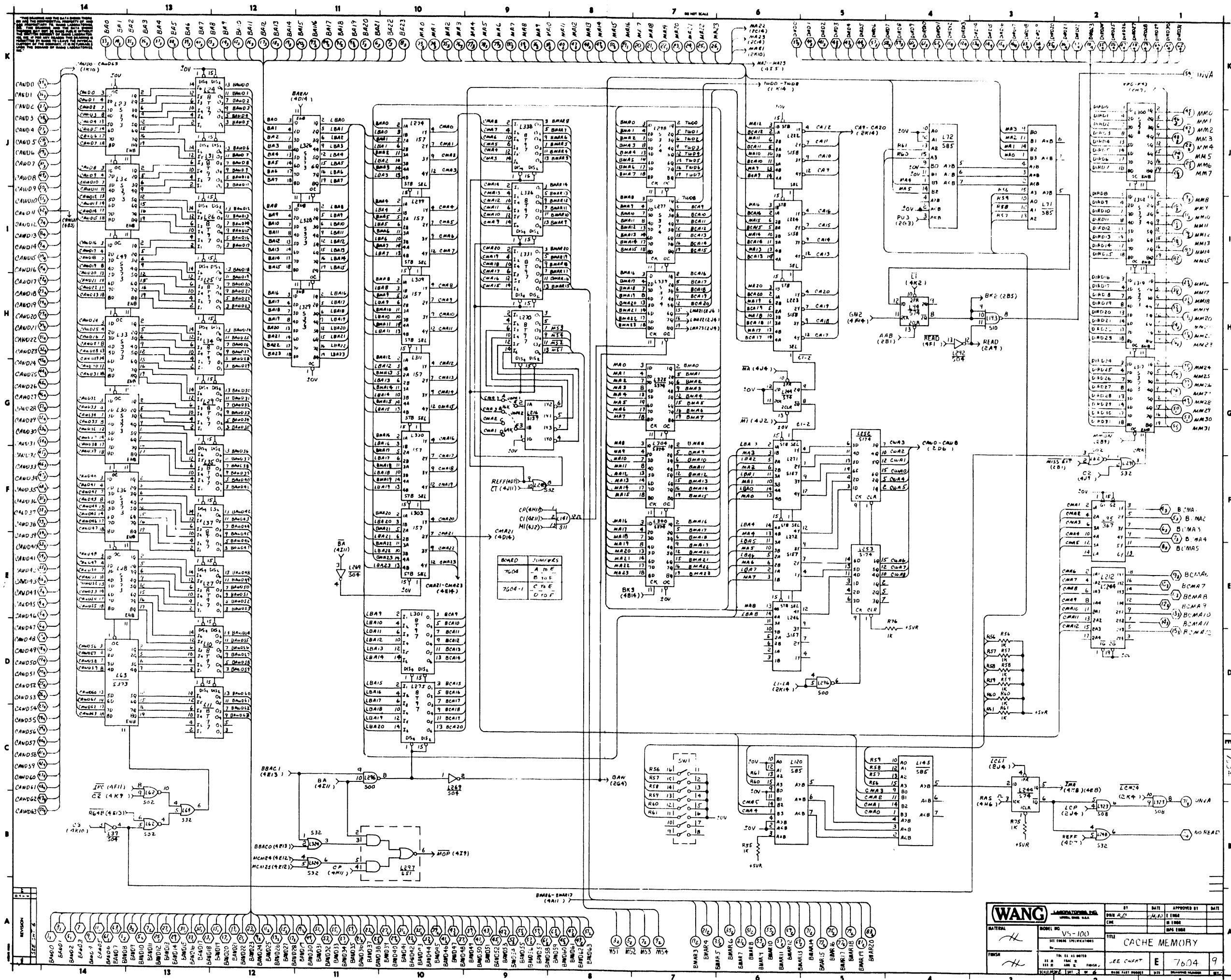




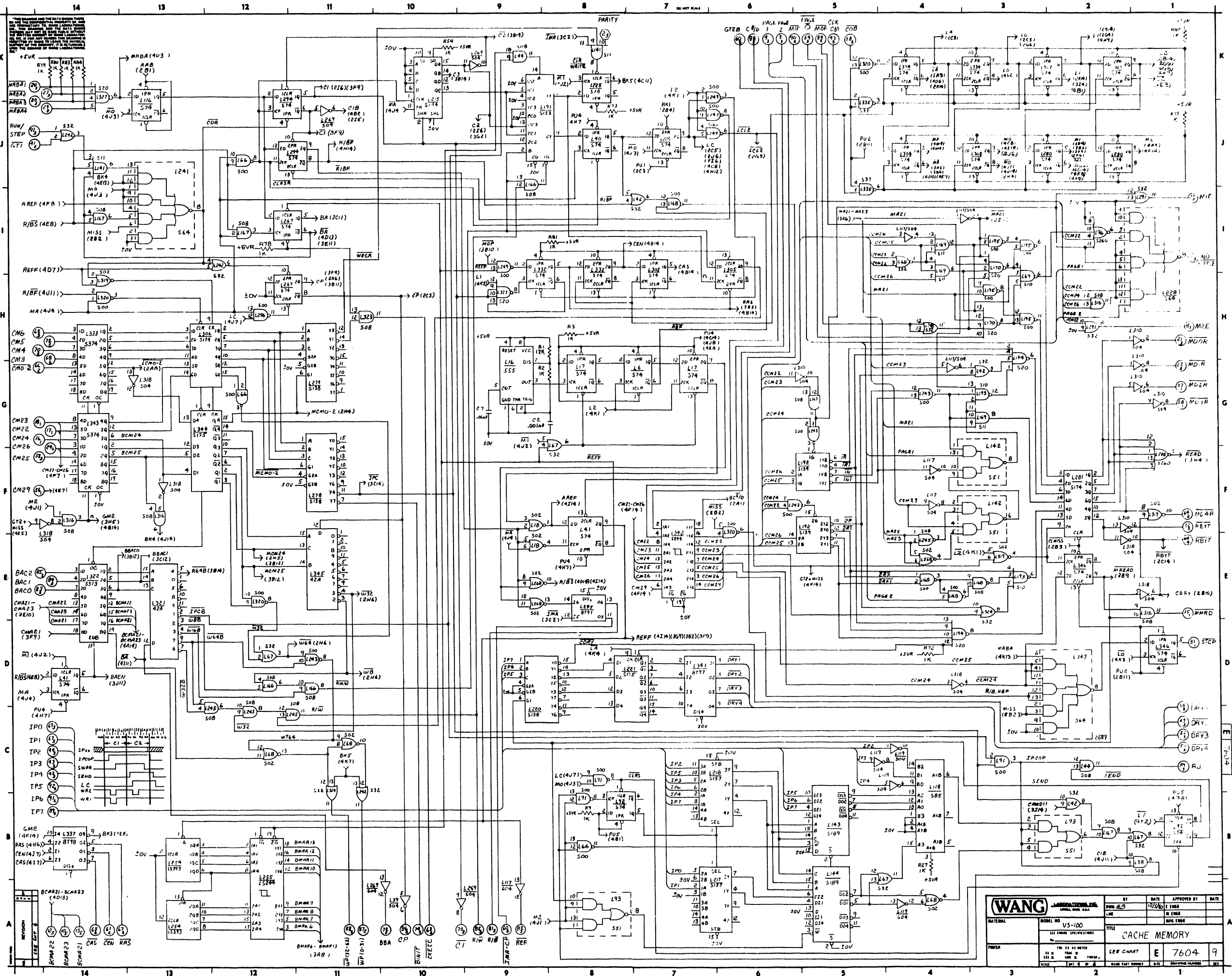
<b>WANG</b>		DATE	APPROVED BY
MATERIAL		DATE	APPROVED BY
BOOK NO.	REV.	DATE	APPROVED BY
100-100	40	1/16/64	ENG
TITLE			
CACHE MEMORY			
DRAWN BY			
E 7604			



<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. V5-100	DRW. NO.	1.1	ENGINE	
FINISH	SEE DRAWING	TITLE	CACHE MEMORY		
		REV. NO.	E	7604	9



<b>WANG</b>		DATE	APPROVED BY	DATE
MATERIAL	BOOK NO.	DESIGNED BY	IN CHARGE	DATE
	V5-100	CHK	IN CHARGE	
TITLE				
CACHE MEMORY				
REV	REV	REV	REV	REV
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14

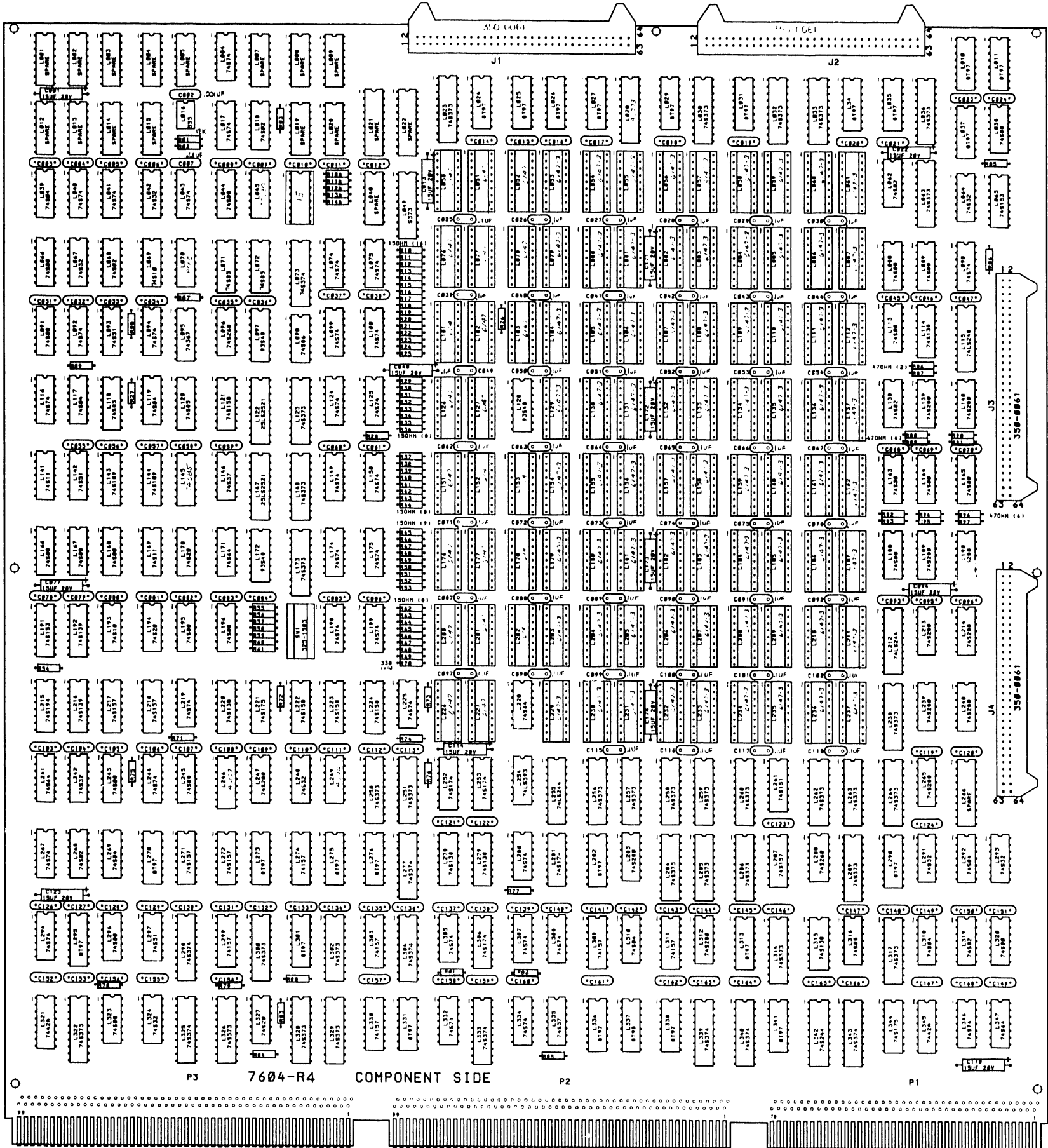


<b>WANG</b>		DATE	APPROVED BY	DATE
DRAWN		DATE	BY	DATE
TITLE		CACHE MEMORY		
PART NO.		7604 9		
REV.		1		
SCALE		1:1		
SHEET		1		



This drawing and the data shown thereon are the confidential property of WANG COMMUNICATIONS INC. and should not be disclosed to any other person without the written consent of WANG COMMUNICATIONS INC. No part of this drawing should be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the written consent of WANG COMMUNICATIONS INC.

K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A



- NOTES:
1. ALL RESISTORS ARE 1K 1/4W 10% EXCEPT AS NOTED
  2. ALL CAPACITORS ARE .047UF EXCEPT AS NOTED.
  3. LOAD L50-L61, L76-L87, L101-L112, L126-L127, L129-L137, L151-L162, L176-L187, L200-L211, L226-L227, L229-L237 INTO IC SOCKET # 376-1014.

REV	REVISION
1	SEE 317-D

<b>WANG COMMUNICATIONS INC.</b>		BY: <i>BJ</i>	DATE: 2/3/64	APPROVED BY:	DATE:
MATERIAL:	MODEL NO: U2-100	CHK:	ENG:	ENG:	ENG:
TITLE: CACHE MEMORY		REV: 1			
DRAWN BY: HART		E 760+			
DATE: 1/21/64		DRAWING NUMBER:			

Table with 3 columns: COMPONENT, TYPE, WL PART NO. Contains various component identifiers and part numbers.

Table with 3 columns: TYPE, LOCATION, SPARES. Lists component types, locations, and spare quantities.

Table with 3 columns: COMPONENT, TYPE, WL PART NO. Lists components, types, and part numbers.

Table with 3 columns: MFMONICS, COORD, MFMONICS, COORD. Lists mnemonics and coordinates.

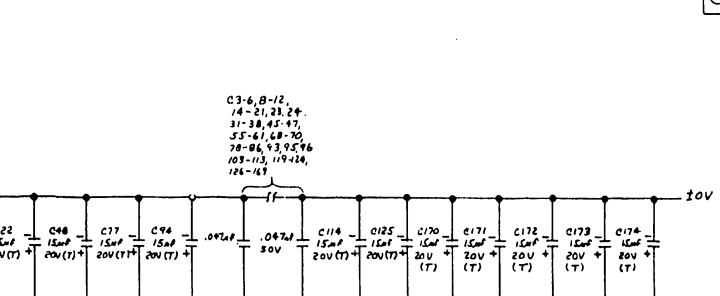
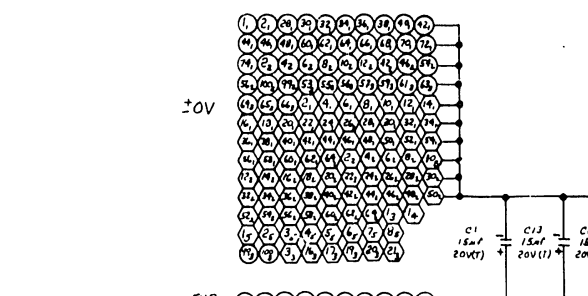
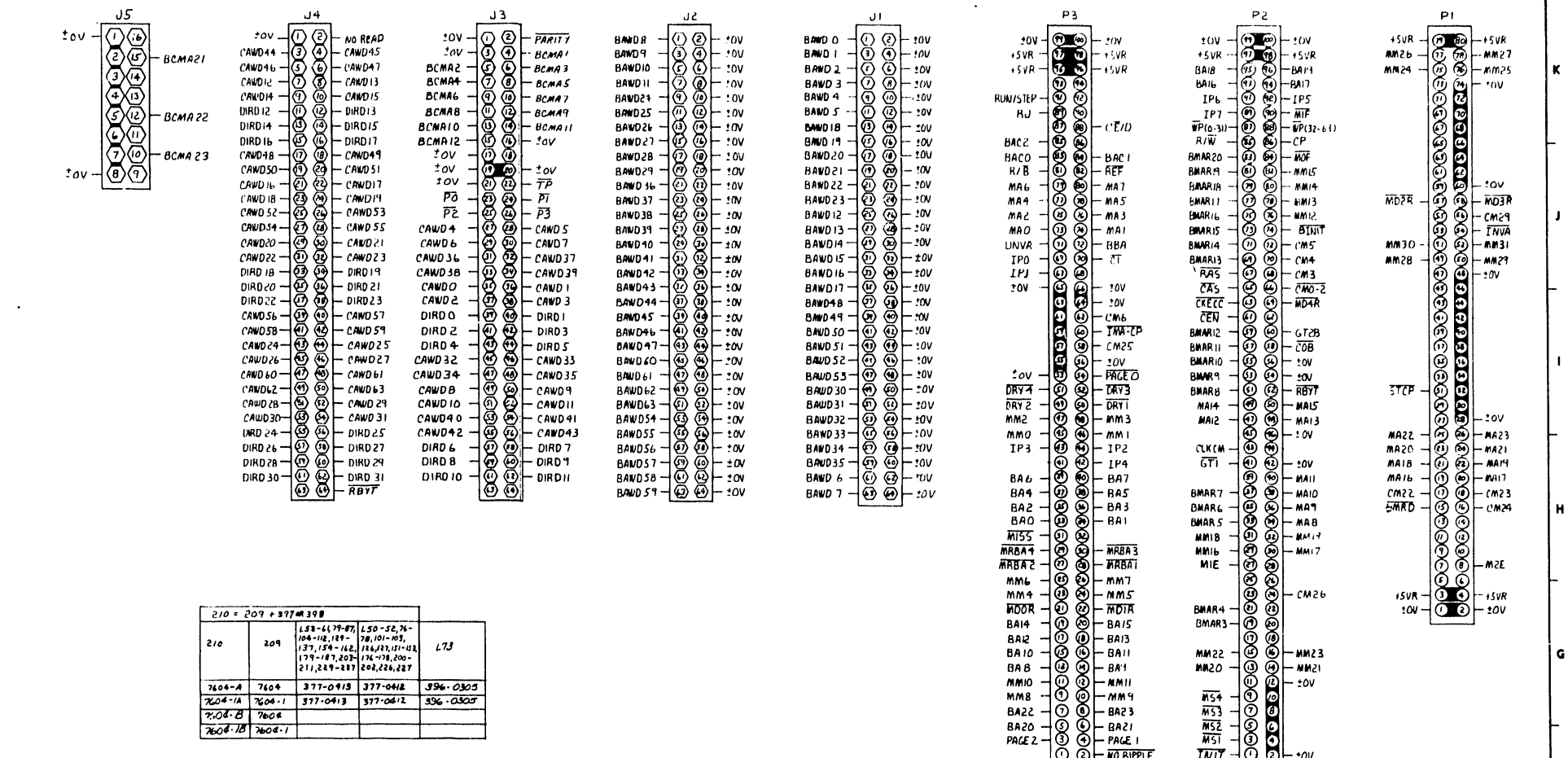
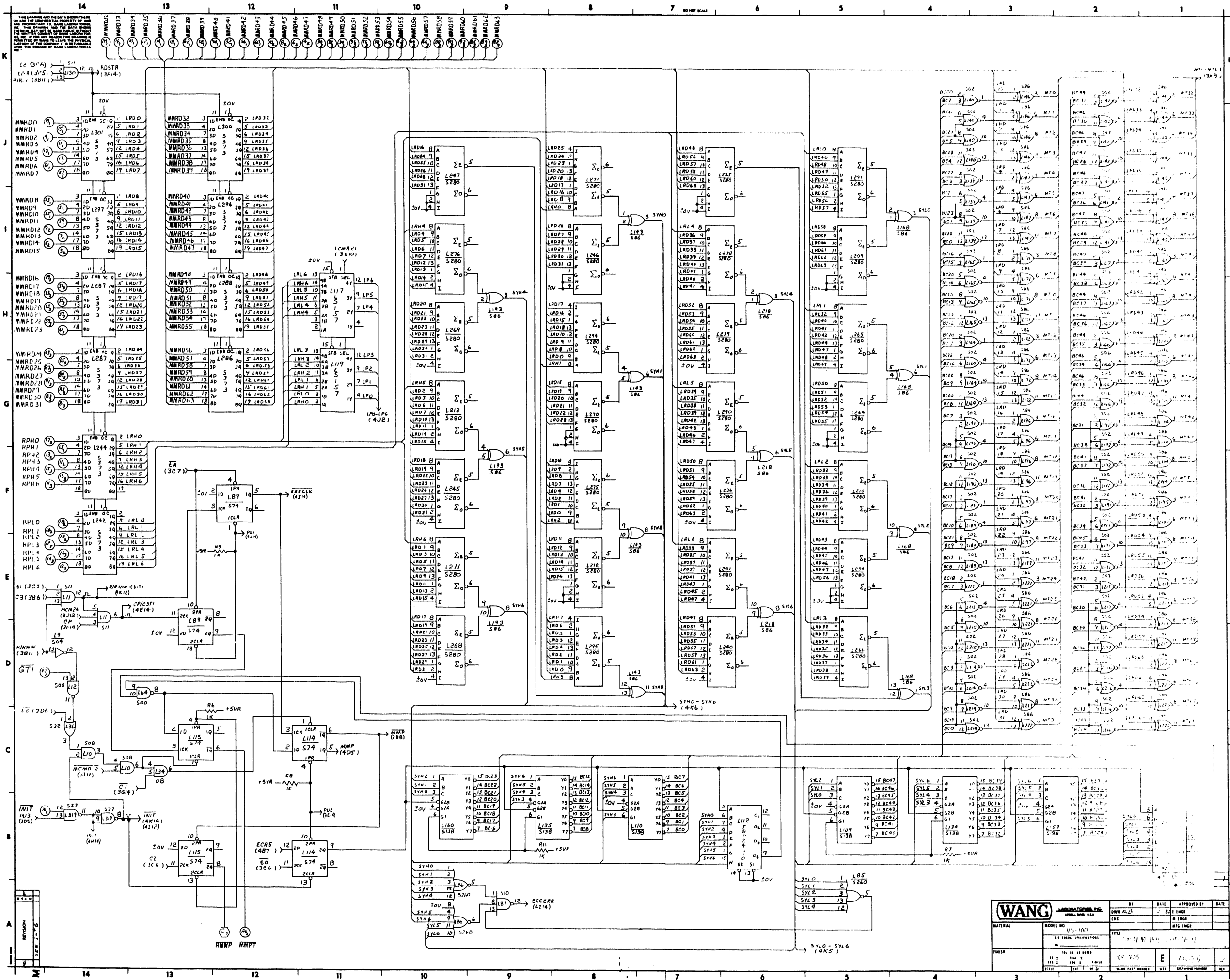
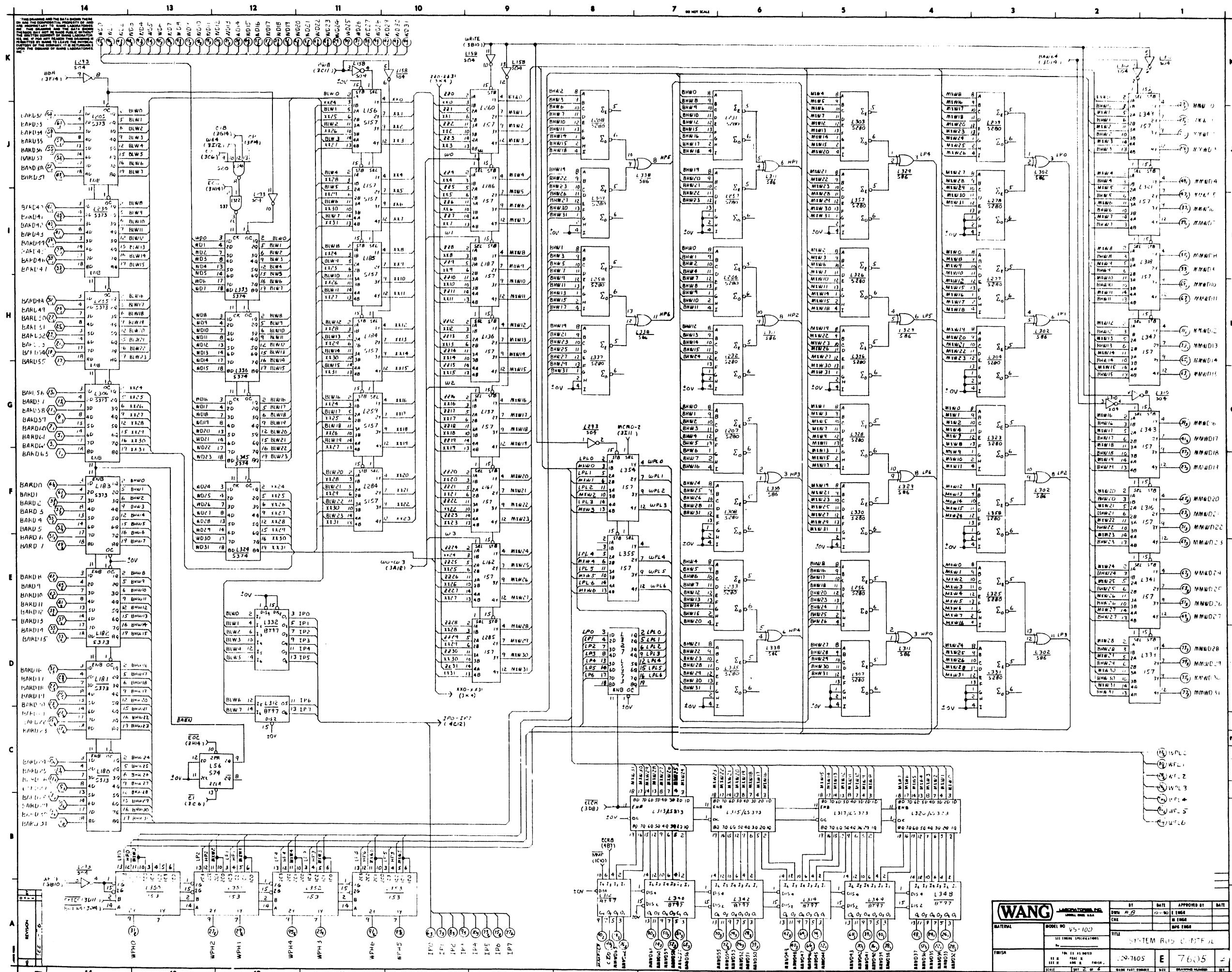


Table with 3 columns: REV, QTY, UOM, etc. Contains revision and quantity information.

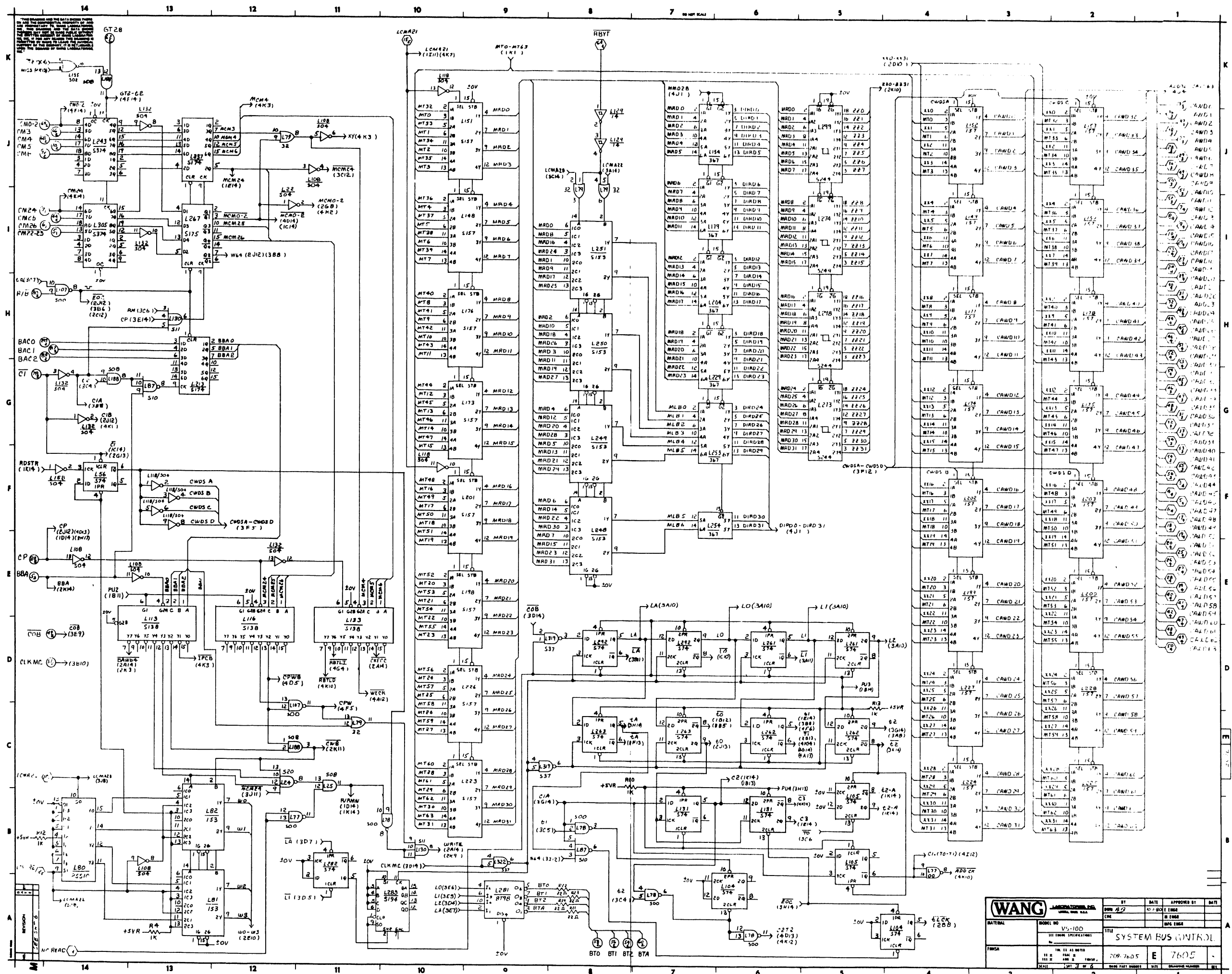
WANG logo, project title 'CACHE MEMORY', revision 'E', part number '7604', and other project details.



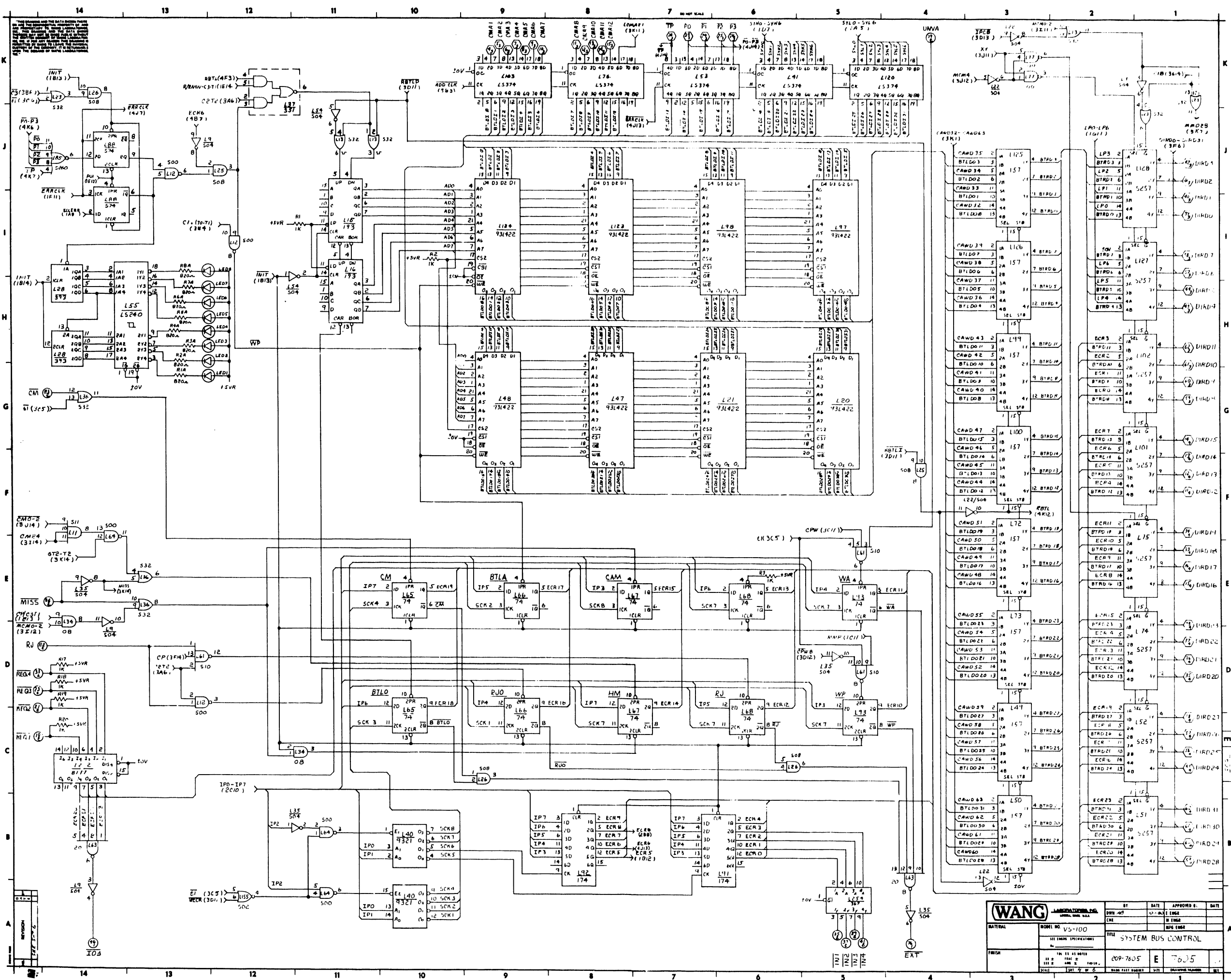
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	ONE	12/15/66	W. LINGE	
TITLE		720-100			
FINISH		E 7/2/65			

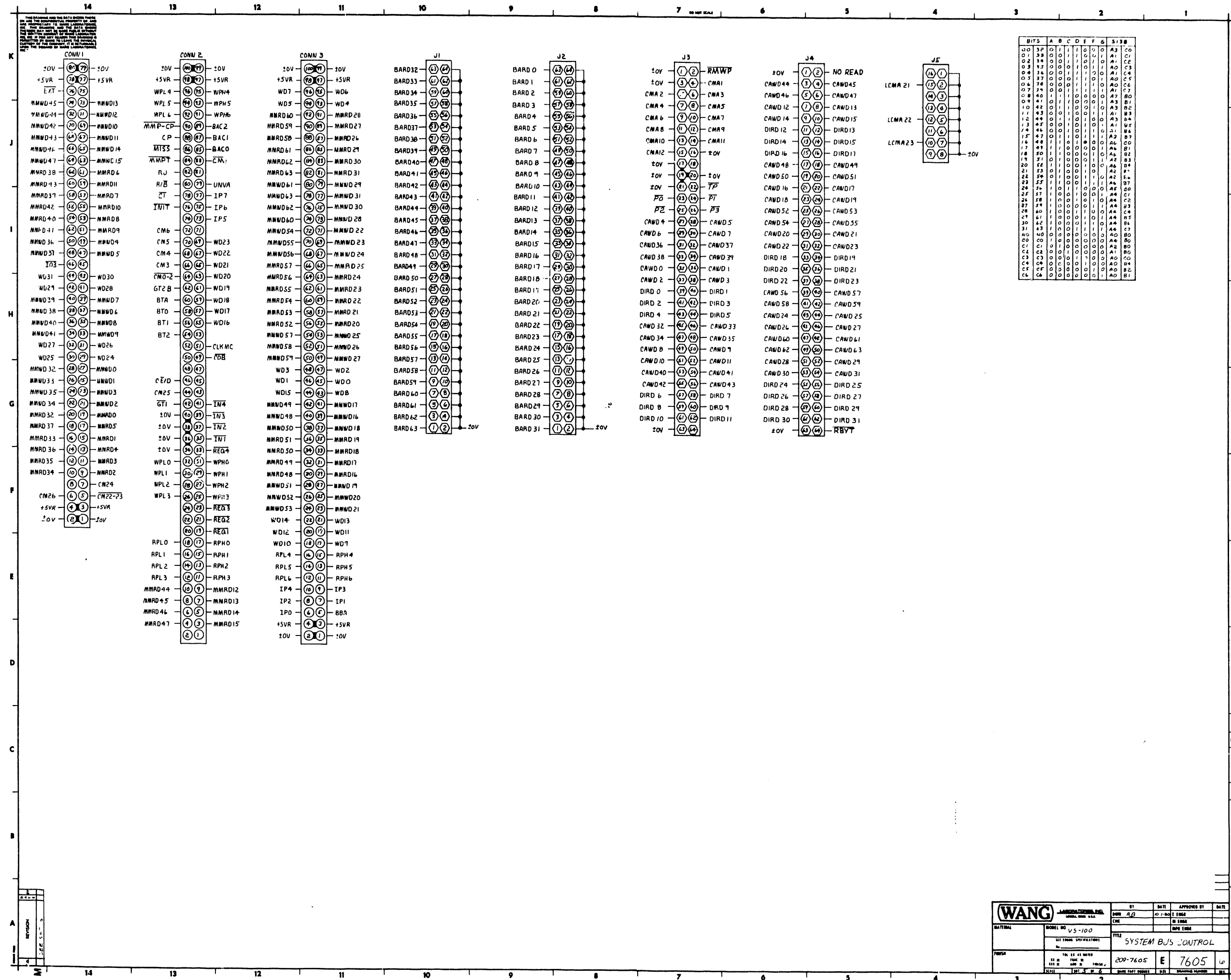


<b>WANG</b> LABORATORIES, INC. SERIAL NO. 44		REV	BATE	APPROVED BY	DATE
		REV A	0-10	LING	
MODEL NO. 95-100		TITLE		DATE	
11 FROM OPERATIONS		SYSTEM BUS CONTROL		E 7605	
REV. 11 11 1958		REV. 2 11 1958		REV. 3 11 1958	
REV. 4 11 1958		REV. 5 11 1958		REV. 6 11 1958	
REV. 7 11 1958		REV. 8 11 1958		REV. 9 11 1958	
REV. 10 11 1958		REV. 11 11 1958		REV. 12 11 1958	



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. VJ-100		BY	DATE	APPROVED BY
TITLE		DATE	DATE	DATE
SYSTEM BUS CONTROL		DATE	DATE	DATE
DRAWN		DATE	DATE	DATE
CHECKED		DATE	DATE	DATE
DESIGNED		DATE	DATE	DATE





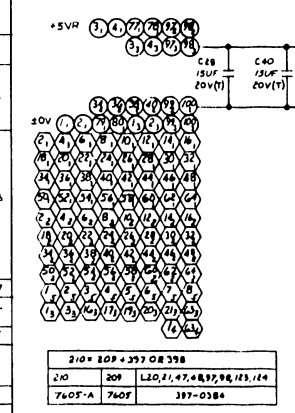
BIT	A	B	C	D	E	F	G	H
00	3P	01	11	01	01	01	01	01
01	3B	00	10	00	00	00	00	00
02	3A	00	10	01	01	01	01	01
03	36	00	10	01	01	01	01	01
04	37	00	00	00	00	00	00	00
05	38	00	00	00	00	00	00	00
06	39	00	00	00	00	00	00	00
07	3A	00	00	00	00	00	00	00
08	40	00	00	00	00	00	00	00
09	41	00	00	00	00	00	00	00
10	42	00	00	00	00	00	00	00
11	43	00	00	00	00	00	00	00
12	44	00	00	00	00	00	00	00
13	45	00	00	00	00	00	00	00
14	46	00	00	00	00	00	00	00
15	47	00	00	00	00	00	00	00
16	48	00	00	00	00	00	00	00
17	49	00	00	00	00	00	00	00
18	50	00	00	00	00	00	00	00
19	51	00	00	00	00	00	00	00
20	52	00	00	00	00	00	00	00
21	53	00	00	00	00	00	00	00
22	54	00	00	00	00	00	00	00
23	55	00	00	00	00	00	00	00
24	56	00	00	00	00	00	00	00
25	57	00	00	00	00	00	00	00
26	58	00	00	00	00	00	00	00
27	59	00	00	00	00	00	00	00
28	60	00	00	00	00	00	00	00
29	61	00	00	00	00	00	00	00
30	62	00	00	00	00	00	00	00
31	63	00	00	00	00	00	00	00
32	64	00	00	00	00	00	00	00
33	65	00	00	00	00	00	00	00
34	66	00	00	00	00	00	00	00
35	67	00	00	00	00	00	00	00
36	68	00	00	00	00	00	00	00
37	69	00	00	00	00	00	00	00
38	70	00	00	00	00	00	00	00
39	71	00	00	00	00	00	00	00
40	72	00	00	00	00	00	00	00
41	73	00	00	00	00	00	00	00
42	74	00	00	00	00	00	00	00
43	75	00	00	00	00	00	00	00
44	76	00	00	00	00	00	00	00
45	77	00	00	00	00	00	00	00
46	78	00	00	00	00	00	00	00
47	79	00	00	00	00	00	00	00
48	80	00	00	00	00	00	00	00
49	81	00	00	00	00	00	00	00
50	82	00	00	00	00	00	00	00
51	83	00	00	00	00	00	00	00
52	84	00	00	00	00	00	00	00
53	85	00	00	00	00	00	00	00
54	86	00	00	00	00	00	00	00
55	87	00	00	00	00	00	00	00
56	88	00	00	00	00	00	00	00
57	89	00	00	00	00	00	00	00
58	90	00	00	00	00	00	00	00
59	91	00	00	00	00	00	00	00
60	92	00	00	00	00	00	00	00
61	93	00	00	00	00	00	00	00
62	94	00	00	00	00	00	00	00
63	95	00	00	00	00	00	00	00
64	96	00	00	00	00	00	00	00
65	97	00	00	00	00	00	00	00
66	98	00	00	00	00	00	00	00
67	99	00	00	00	00	00	00	00
68	100	00	00	00	00	00	00	00

<b>WANG</b> LABORATORY, INC.		DATE	APPROVED BY	DATE
MODEL NO. VS-100		DATE	DATE	DATE
SERIAL NO. 209-7605		DATE	DATE	DATE
TITLE: SYSTEM BUS CONTROL		DATE	DATE	DATE
DRAWN BY: E		DATE	DATE	DATE
CHECKED BY: 7605		DATE	DATE	DATE
DESIGNED BY: 7605		DATE	DATE	DATE

DESCRIPTION	REV	DATE	BY	APP'D	DATE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

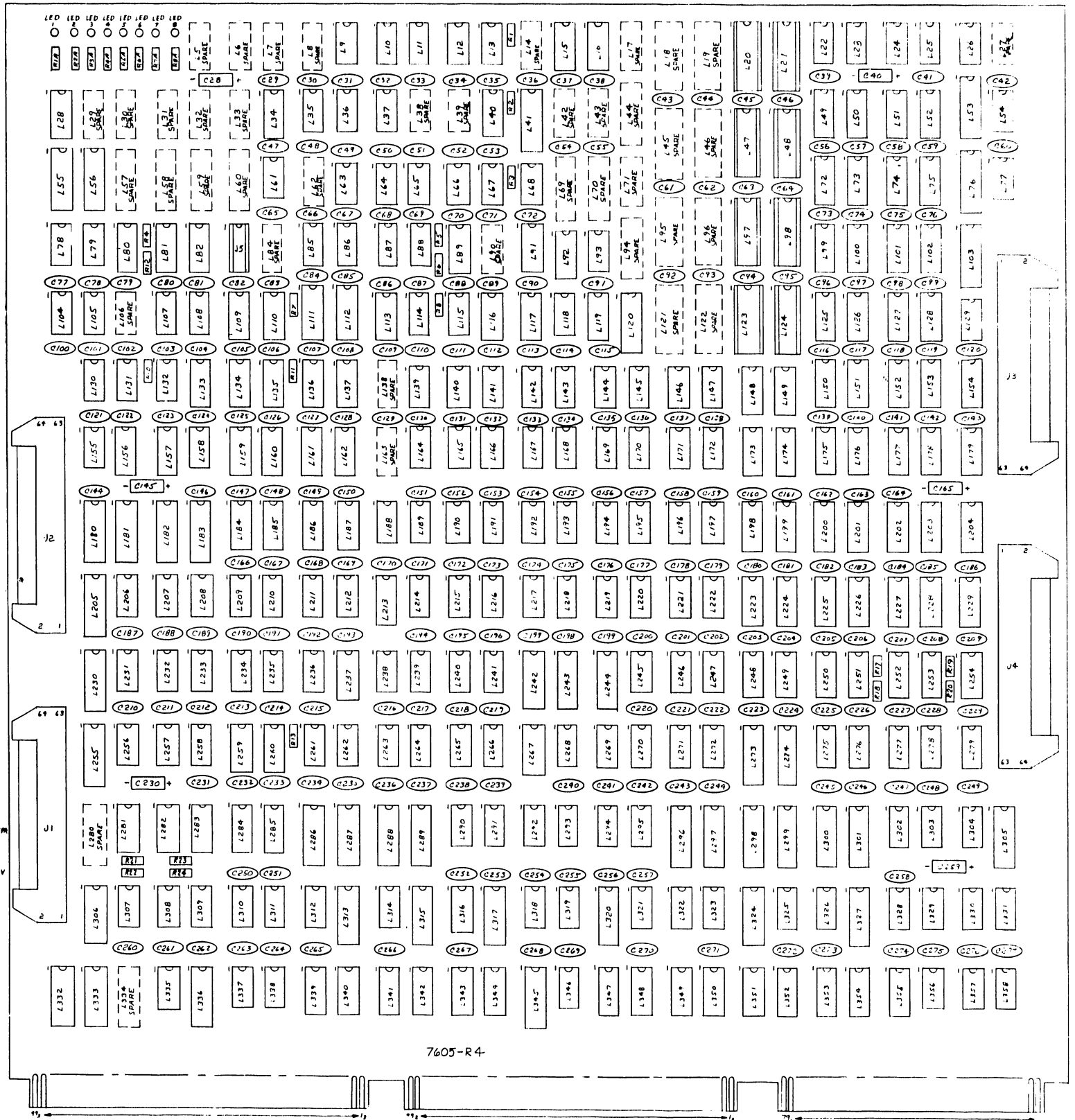
COMPONENT	TYPE	VAL. PART NO.
21-10-13, 17-20	1K 1/4W 10%	330-2010
21A-BA	220uV 1/4W 10%	330-2022
R21-24	22uV 1/4W 10%	330-1022
102B, 40, 145, 145, 230, 259	15uV 20V (1)	300-4022
029-39, 41-144, 146-148, 144-229, 251-258, 260-277	047UF BOV	300-1746
J1-J4	64 PIN CONN M	330-0940
J5	16 PIN DIP SKT	374-1002
LED1-B	LAMP, RED	370-0024

TYPE	J.C. LOCATION	SPARELS
74500	L107	2
74502	L155	2
	L9	1
	L22	1
	L33	2
	L54	4
	L108	1
	L132	1
	L158	1
	L293	2
	L310	2
	L34	1
	L70	2
	L85	1
	L28	1
	L24	1
	L344	1
	L73	1
	L23	1
	L322	2
	L37	1
	L282	1
	L193	1
	L218	1
	L311	1
	L329	1
	L189	4
	L252	1
	L281	1



REV	DATE	BY	APP'D
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

MEMORIC	COORD
BAFO-BAC 6	3044
BARO-BAK 3	2614
BARO-BAK 4	3614
BARO-BAK 5	3614
BARO-BAK 6	3614
BARO-BAK 7	3614
BARO-BAK 8	3614
BARO-BAK 9	3614
BARO-BAK 10	3614
BARO-BAK 11	3614
BARO-BAK 12	3614
BARO-BAK 13	3614
BARO-BAK 14	3614
BARO-BAK 15	3614
BARO-BAK 16	3614
BARO-BAK 17	3614
BARO-BAK 18	3614
BARO-BAK 19	3614
BARO-BAK 20	3614
BARO-BAK 21	3614
BARO-BAK 22	3614
BARO-BAK 23	3614
BARO-BAK 24	3614
BARO-BAK 25	3614
BARO-BAK 26	3614
BARO-BAK 27	3614
BARO-BAK 28	3614
BARO-BAK 29	3614
BARO-BAK 30	3614
BARO-BAK 31	3614
BARO-BAK 32	3614
BARO-BAK 33	3614
BARO-BAK 34	3614
BARO-BAK 35	3614
BARO-BAK 36	3614
BARO-BAK 37	3614
BARO-BAK 38	3614
BARO-BAK 39	3614
BARO-BAK 40	3614
BARO-BAK 41	3614
BARO-BAK 42	3614
BARO-BAK 43	3614
BARO-BAK 44	3614
BARO-BAK 45	3614
BARO-BAK 46	3614
BARO-BAK 47	3614
BARO-BAK 48	3614
BARO-BAK 49	3614
BARO-BAK 50	3614
BARO-BAK 51	3614
BARO-BAK 52	3614
BARO-BAK 53	3614
BARO-BAK 54	3614
BARO-BAK 55	3614
BARO-BAK 56	3614
BARO-BAK 57	3614
BARO-BAK 58	3614
BARO-BAK 59	3614
BARO-BAK 60	3614
BARO-BAK 61	3614
BARO-BAK 62	3614
BARO-BAK 63	3614
BARO-BAK 64	3614
BARO-BAK 65	3614
BARO-BAK 66	3614
BARO-BAK 67	3614
BARO-BAK 68	3614
BARO-BAK 69	3614
BARO-BAK 70	3614
BARO-BAK 71	3614
BARO-BAK 72	3614
BARO-BAK 73	3614
BARO-BAK 74	3614
BARO-BAK 75	3614
BARO-BAK 76	3614
BARO-BAK 77	3614
BARO-BAK 78	3614
BARO-BAK 79	3614
BARO-BAK 80	3614
BARO-BAK 81	3614
BARO-BAK 82	3614
BARO-BAK 83	3614
BARO-BAK 84	3614
BARO-BAK 85	3614
BARO-BAK 86	3614
BARO-BAK 87	3614
BARO-BAK 88	3614
BARO-BAK 89	3614
BARO-BAK 90	3614
BARO-BAK 91	3614
BARO-BAK 92	3614
BARO-BAK 93	3614
BARO-BAK 94	3614
BARO-BAK 95	3614
BARO-BAK 96	3614
BARO-BAK 97	3614
BARO-BAK 98	3614
BARO-BAK 99	3614
BARO-BAK 100	3614

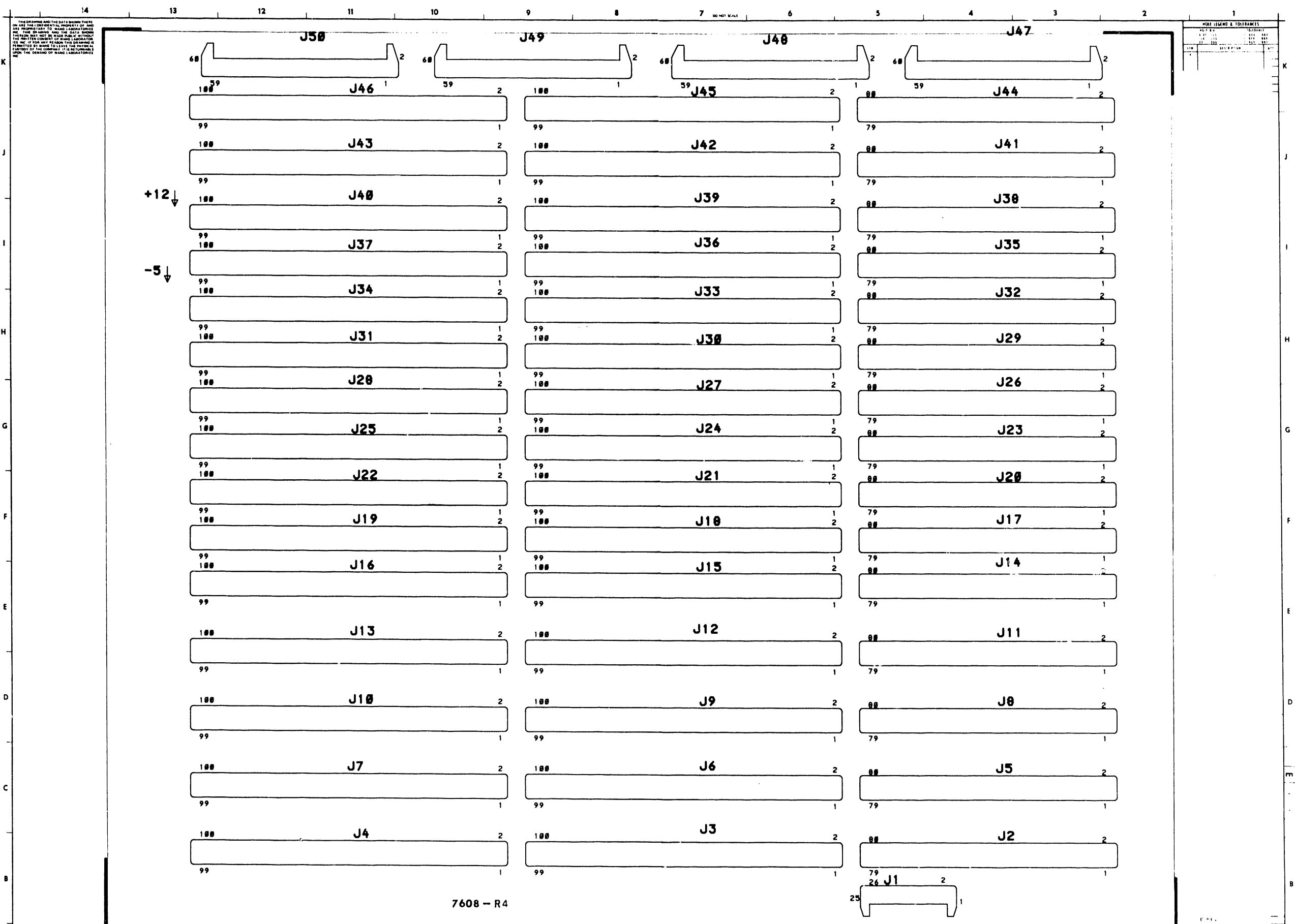


<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. 75-100		DATE	APPROVED BY	DATE
TITLE		DATE	APPROVED BY	DATE
SYSTEM BUS CONTROL		DATE	APPROVED BY	DATE
DRAWING NO.		DATE	APPROVED BY	DATE
7505		DATE	APPROVED BY	DATE





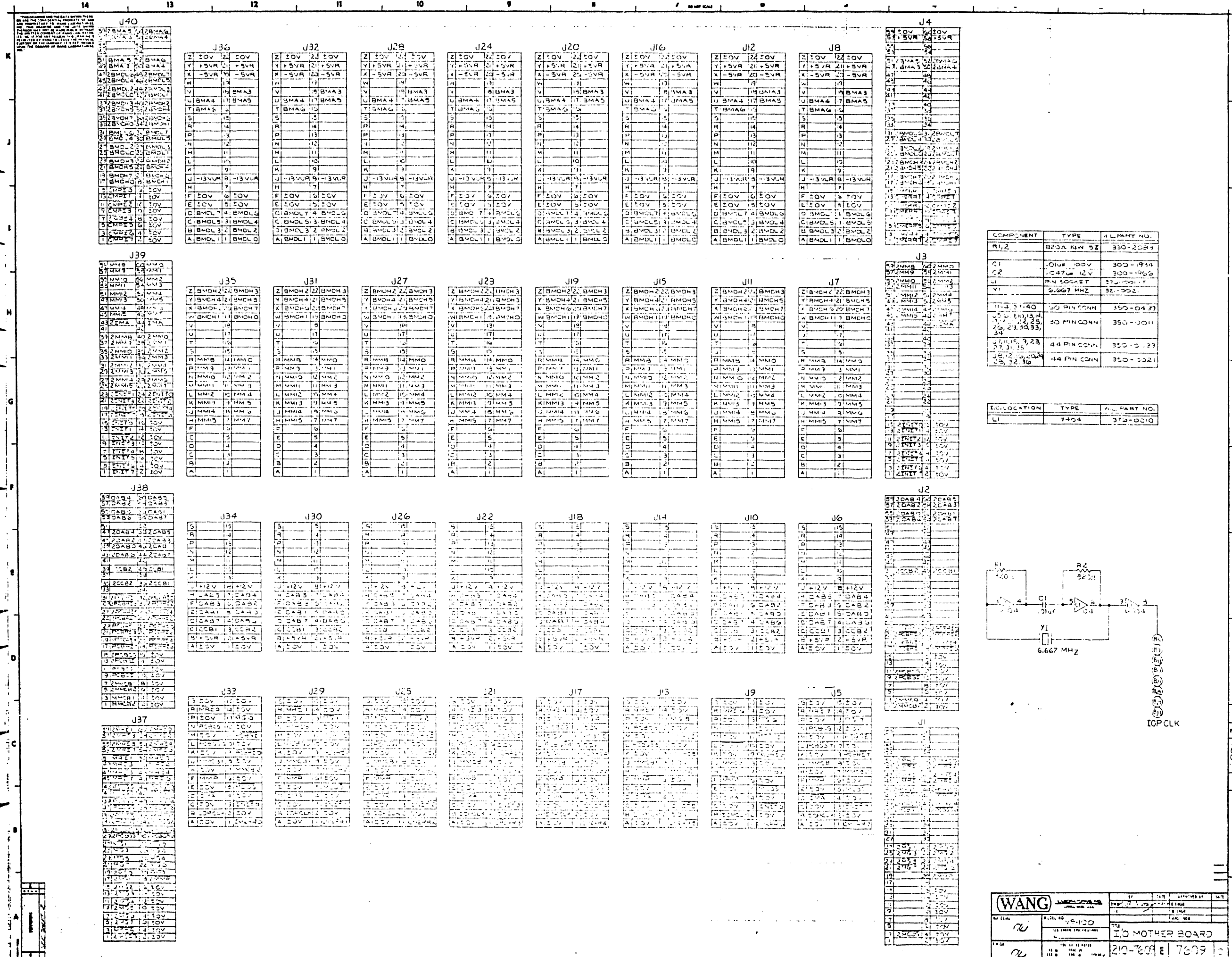




REV	DATE	BY	DESCRIPTION
1			ISSUED FOR MANUFACTURE
2			REVISION
3			REVISION
4			REVISION
5			REVISION
6			REVISION
7			REVISION
8			REVISION
9			REVISION
10			REVISION
11			REVISION
12			REVISION
13			REVISION
14			REVISION

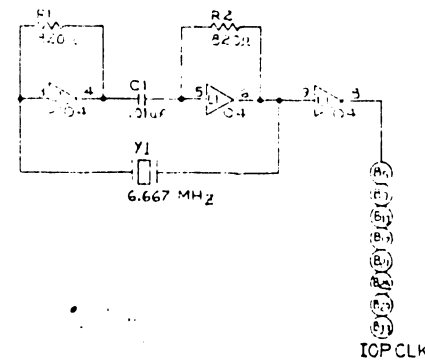
COMPONENT	QTY	UNIT	LAST NO
100	2	1	762
99	1	1	
100	2	1	
99	1	1	
100	2	1	
99	1	1	
100	2	1	
99	1	1	
100	2	1	
99	1	1	
100	2	1	
99	1	1	
100	2	1	
99	1	1	

WANG CORPORATION		BY DATE APPROVED BY DATE	
MODEL NO.	V-100	DRG. ENGR.	DATE
TITLE	C.P. MATH. R. BOARD	CHK. ENGR.	DATE
FINISH	210 (X) E 7608	DRG. ENGR.	DATE
SCALE	1:1	DRG. ENGR.	DATE
SHEET NO.	1 OF 3	DRG. ENGR.	DATE



COMPONENT	TYPE	PART NO.
R1,2	B20A KW 58	350-2083
C1	10UF 100V	300-1944
C2	1.247UF 12V	300-1962
U1	PN SOCKET	370-0001
Y1	6.667 MHZ	32-0021
J1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	50 PIN CONN	350-0437
J1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	50 PIN CONN	350-0011
J1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	44 PIN CONN	350-0029
J1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	44 PIN CONN	350-0021

LOC. LOCATION	TYPE	PART NO.
L1	7404	370-0010



<b>WANG</b>		DATE	REVISED BY
NO. 114	REV. 100	DATE	REVISED BY
210-7609		E 7609	

THIS BOARD USES THE 74LS11 BY TI WHICH IS A CMOS LOGIC DEVICE. IT IS NOT COMPATIBLE WITH THE 74LS11 WHICH IS A BIPOLAR LOGIC DEVICE. THE BOARD IS NOT TO BE USED WITH THE 74LS11 WHICH IS A BIPOLAR LOGIC DEVICE. THE BOARD IS NOT TO BE USED WITH THE 74LS11 WHICH IS A BIPOLAR LOGIC DEVICE. THE BOARD IS NOT TO BE USED WITH THE 74LS11 WHICH IS A BIPOLAR LOGIC DEVICE.

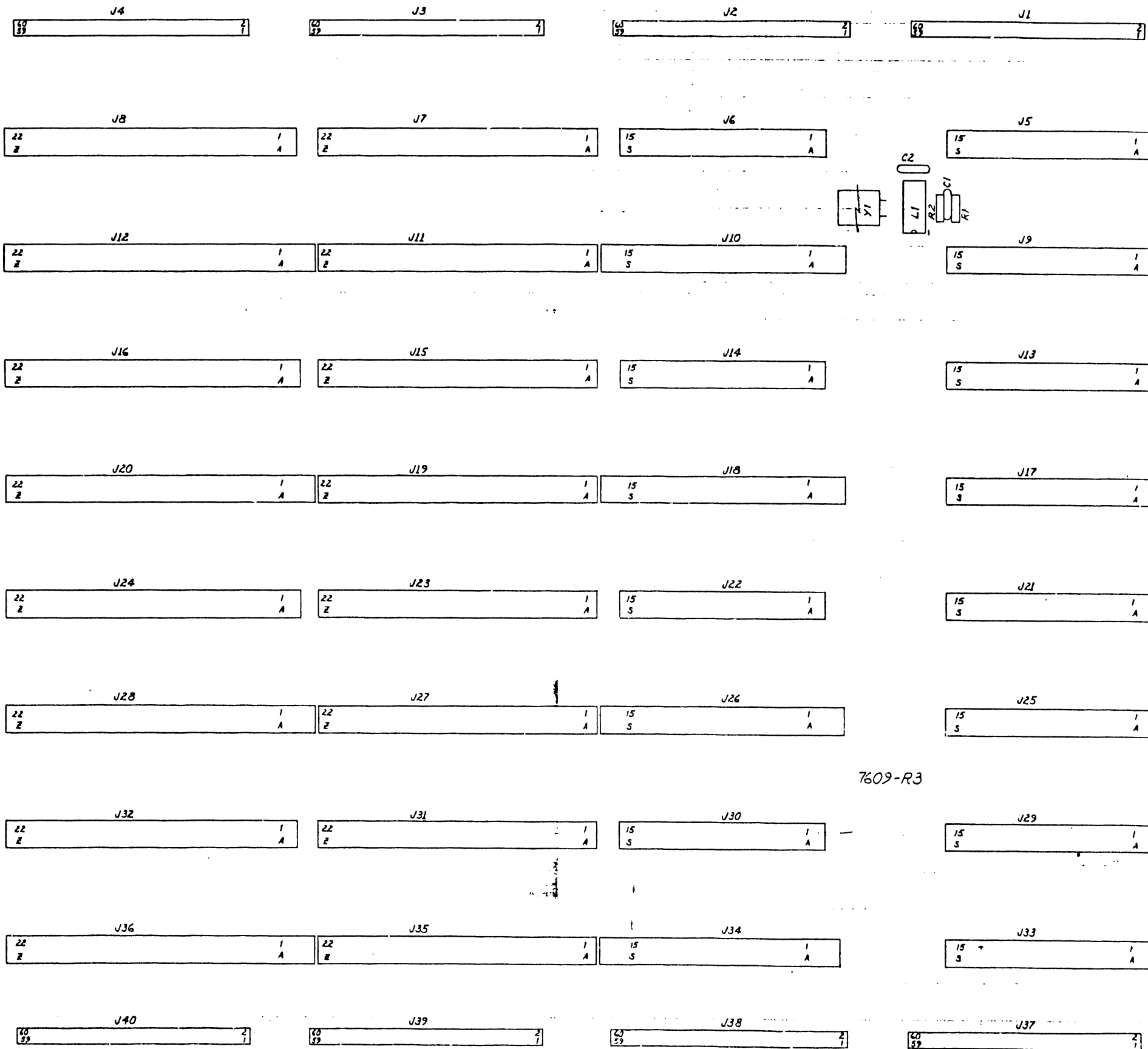
□ -13VVR

□ +12V

□ -5VR

+5VR

+5VR

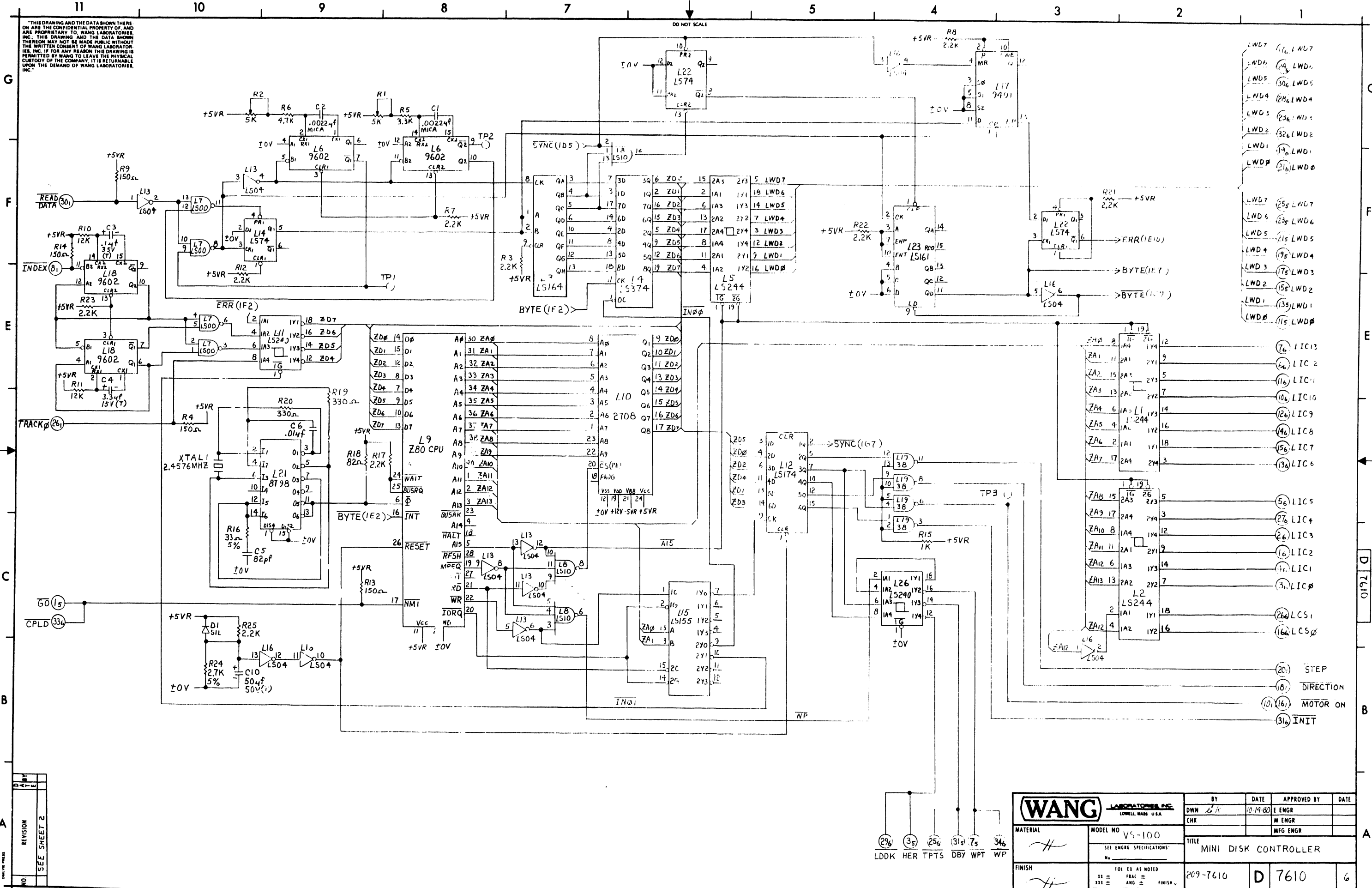


E-REV

L

<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO.	15-100	DATE	APPROVED BY	DATE
TITLE		170 MOTHER BOARD		
REV.	E	DATE	APPROVED BY	DATE
REV.	1	DATE	APPROVED BY	DATE

"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."



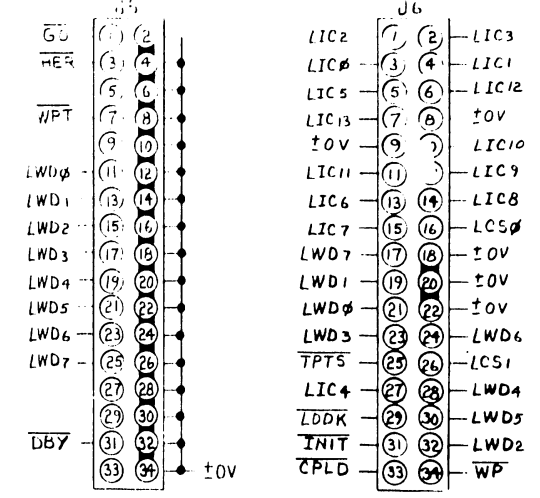
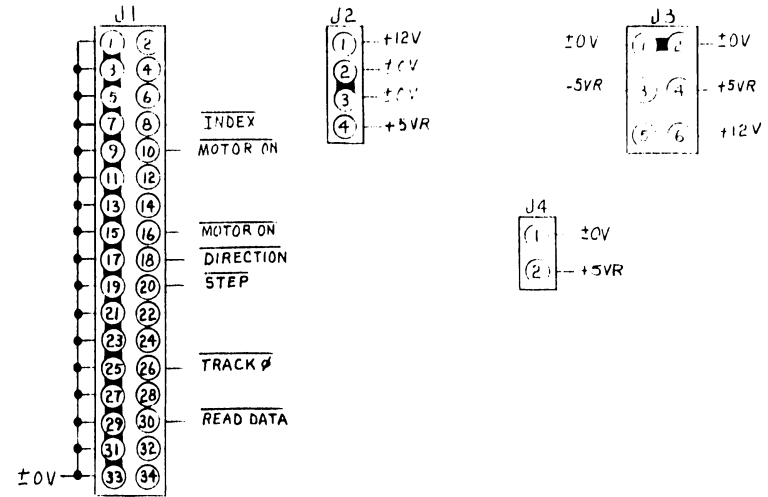
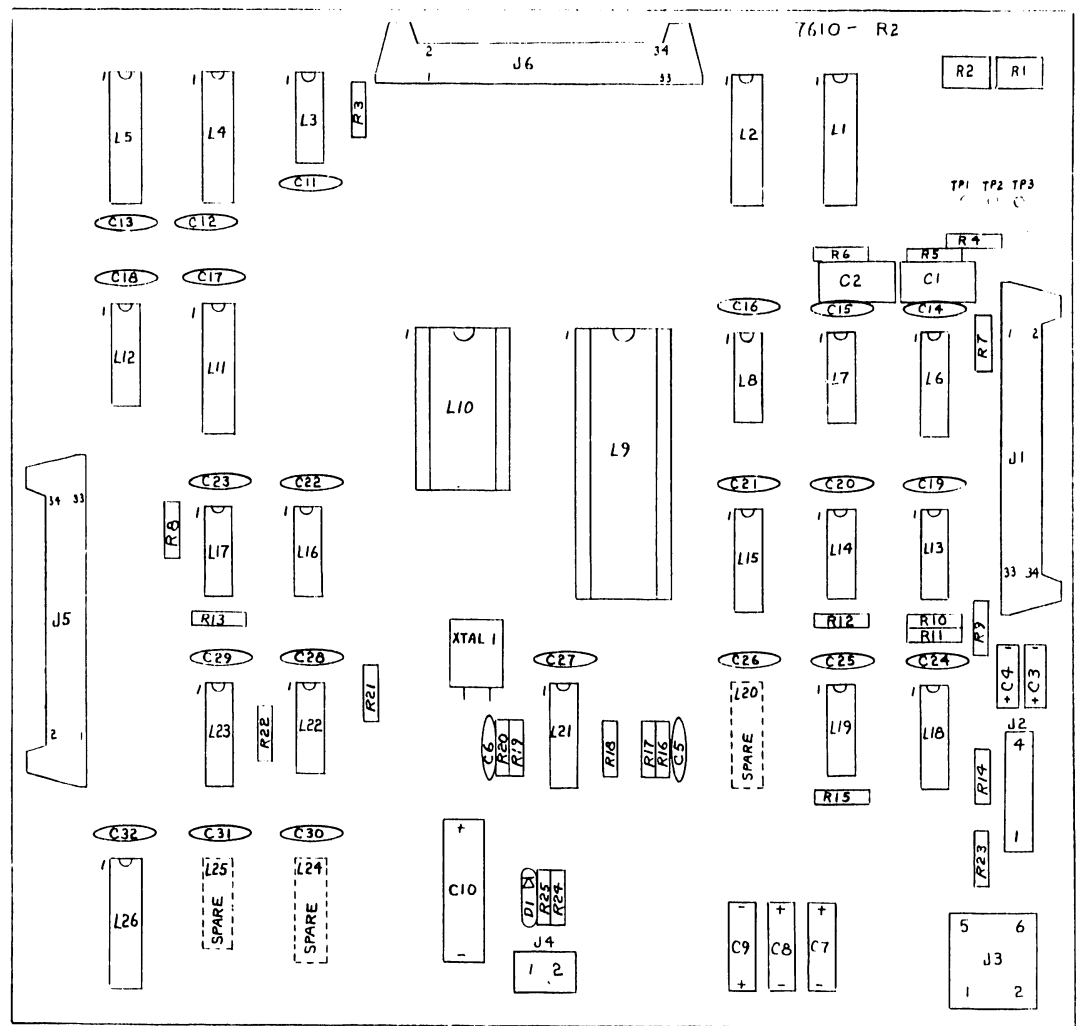
NO	REVISION

SEE SHEET 2

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 10-19-80	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO VS-100		TITLE MINI DISK CONTROLLER			
FINISH		209-7610		D 7610	6
SCALE		WANG PART NUMBER		SIZE	DRAWING NUMBER

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



MNEMONIC	COORD
CPTD	IC11
DBY	1A4
DIRECTION	1B1
GO	1C11
HER	1A4
INDEX	1E11
INIT	1B1
LCSØ	1C1
LCS1	1C1
LDDK	1A4
LICØ-LIC13	1C1
LWDØ-LWD7	1F1
MOTOR ON	1B1
READ DATA	1F11
STEP	1B1
TPTS	1A4
TRACK Ø	1D11
WP	1A3
WPT	1A4

IC LOCATION	TYPE	WL PART NO.
L1,2,5	74LS244	376-0288
L3	74LS164	376-0236
L4	74LS374	376-0286
L6,18	9602	376-0104
L7	74LS00	376-0207
L8	74LS10	376-0209
L9	Z80 CPU	SEE CHART
L10	2708	SEE CHART
L11,26	74LS240	376-0297
L12	74LS174	376-0159
L13,16	74LS04	376-0180
L14,22	74LS74	376-0155
L15	74LS155	376-0158
L17	9401	376-0440
L19	7438	376-0128
L20,24,25	SPARE	
L21	8T98	376-0185
L23	74LS161	376-0233
L10	24 PIN SKT	376-9003
L9	40 PIN SKT	376-9011

COMPONENT	TYPE	WL PART NO.
C1,2	.0022µF500V MICA	300-5012
C3	.1µF 35V(T)	300-4002
C4	3.3µF 15V(T)	300-4016
C5	82pf 500V	300-1082
C6	.01µF 25V	300-1903
C7,8,9	15µF 20V(T)	300-4022
C10	50µF 50V ELECT	300-3010
C11-32	.05µF 12V	300-1900
XTAL 1	2.4576MHZ	321-0027
R1,2	5K POT	336-1020
R3,7,8,12,17,21-23,25	2.2K 1/4W 5%	330-3023
R4,9,13,14	150Ω 1/4W 5%	330-2016
R5	3.3K 1/4W 5%	330-3034
R6	4.7K 1/4W 5%	330-3048
R10,11	12K 1/4W 5%	330-4013
R15	1K 1/4W 5%	330-3011
R16	33Ω 1/4W 5%	330-1034
R18	82Ω 1/4W 5%	330-1083
R19,20	330Ω 1/4W 5%	330-2034
R24	2.7K 1/4W 5%	330-3028
D1	SIL	380-1001
J1,6	34 PIN RT ANGLE	350-0429
J2	4 POS HEADER	654-1194
J3	6 POS HEADER	654-1186
J4	2 POS HEADER	654-1198
J5	CONN, 34 PIN	350-0453

TYPE	IC LOCATION	SPARES
74LS74	L14	1
74LS240	L11	1
74LS240	L26	1

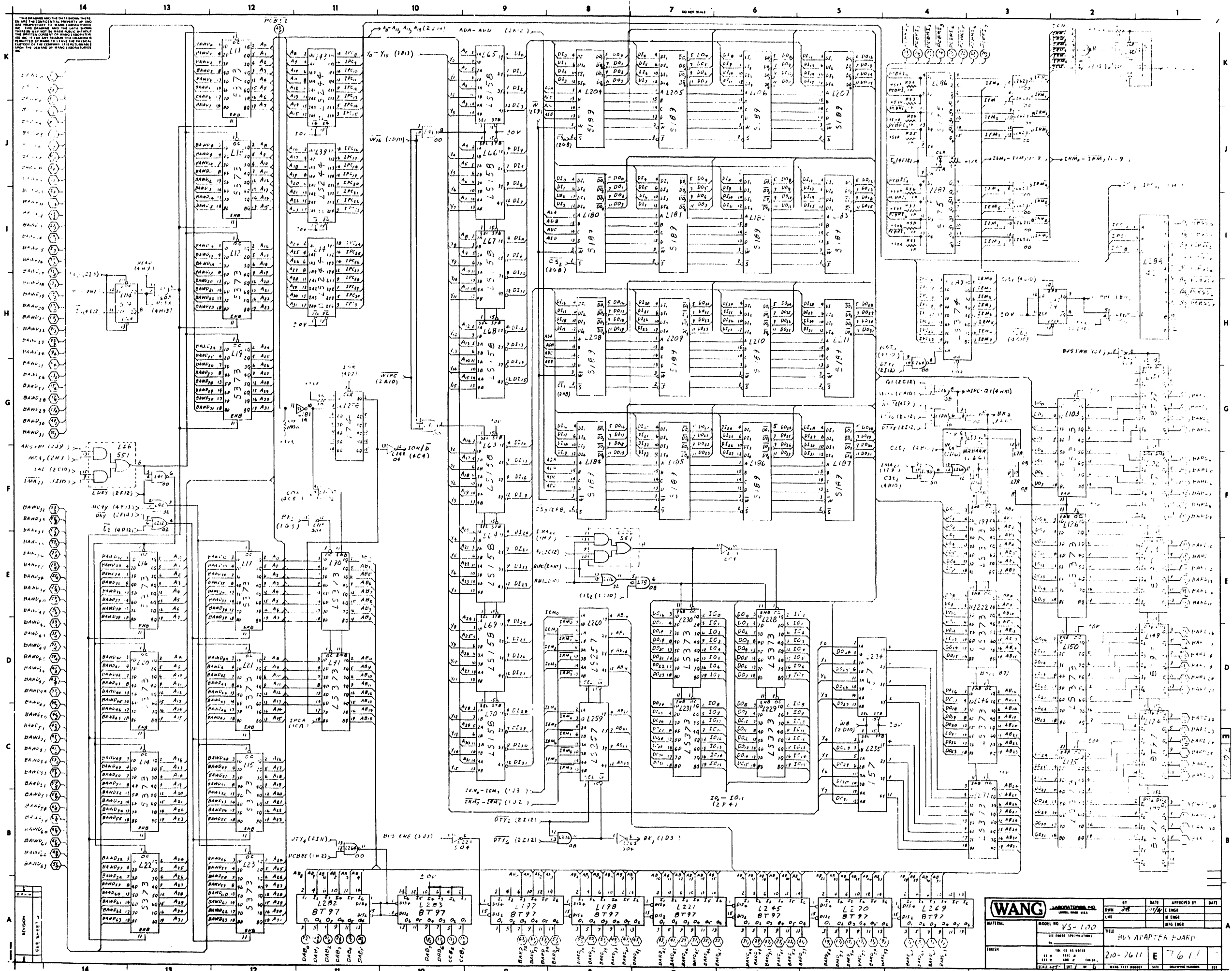
210 = 209 + 377 OR 378
7610-A 7610 377-0344 378-2592

NOTE:  
1) ALL RESISTORS ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

E-REV  
0

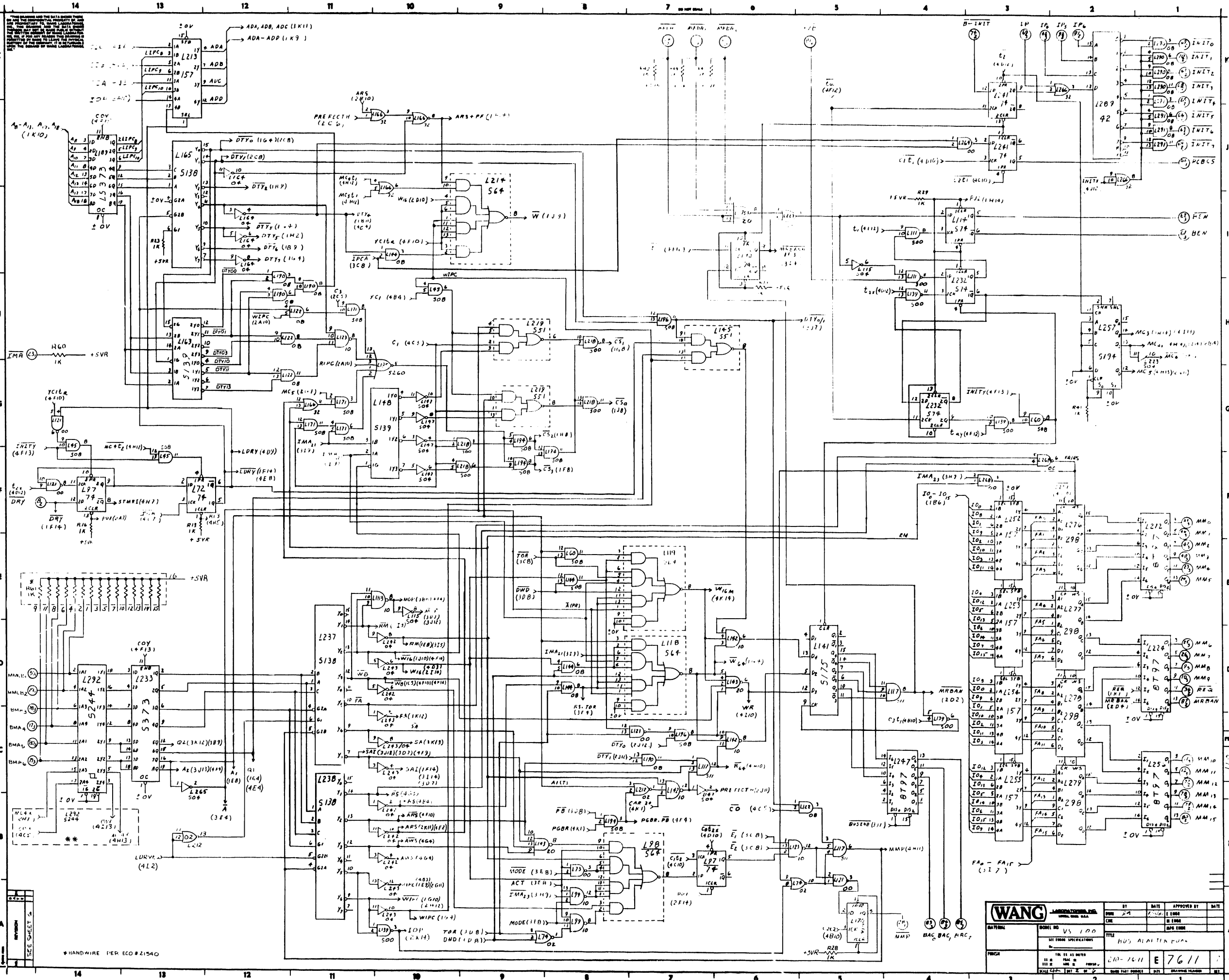
NO.	BY	DATE	REVISION
1	W	10-16-80	ORIGINAL PER DWG # 5100
2	W	10-31-80	REVISED PER ECN # 16879
3	W	12-31-80	REVISED PER ECO # 17435
4	W	2-17-81	REVISED PER ECO # 17435
5	W	5-11-81	REVISED PER ECO # 17435
6	W	10-24-81	REVISED PER ECO # 21505
7	W	5-12-83	REVISED PER H.P.P. D.L.K. P.T.

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: DWN	DATE: 10-16-80	APPROVED BY: [Signature]	DATE: 10/20
MATERIAL: H		MODEL NO.: VS-100		TITLE: MINI DISK CONTROLLER	
FINISH: H		TOL. EX. AS NOTED		209-7610 D 7610 6	
SCALE: 1/2"		SHT 2 OF 2		WANG PART NUMBER: 209-7610	



<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. VS-100	DWG. NO. 210-7611	REV. E	DATE 7/6/61	
TITLE	BUS ADAPTER BOARD				
FINISH					

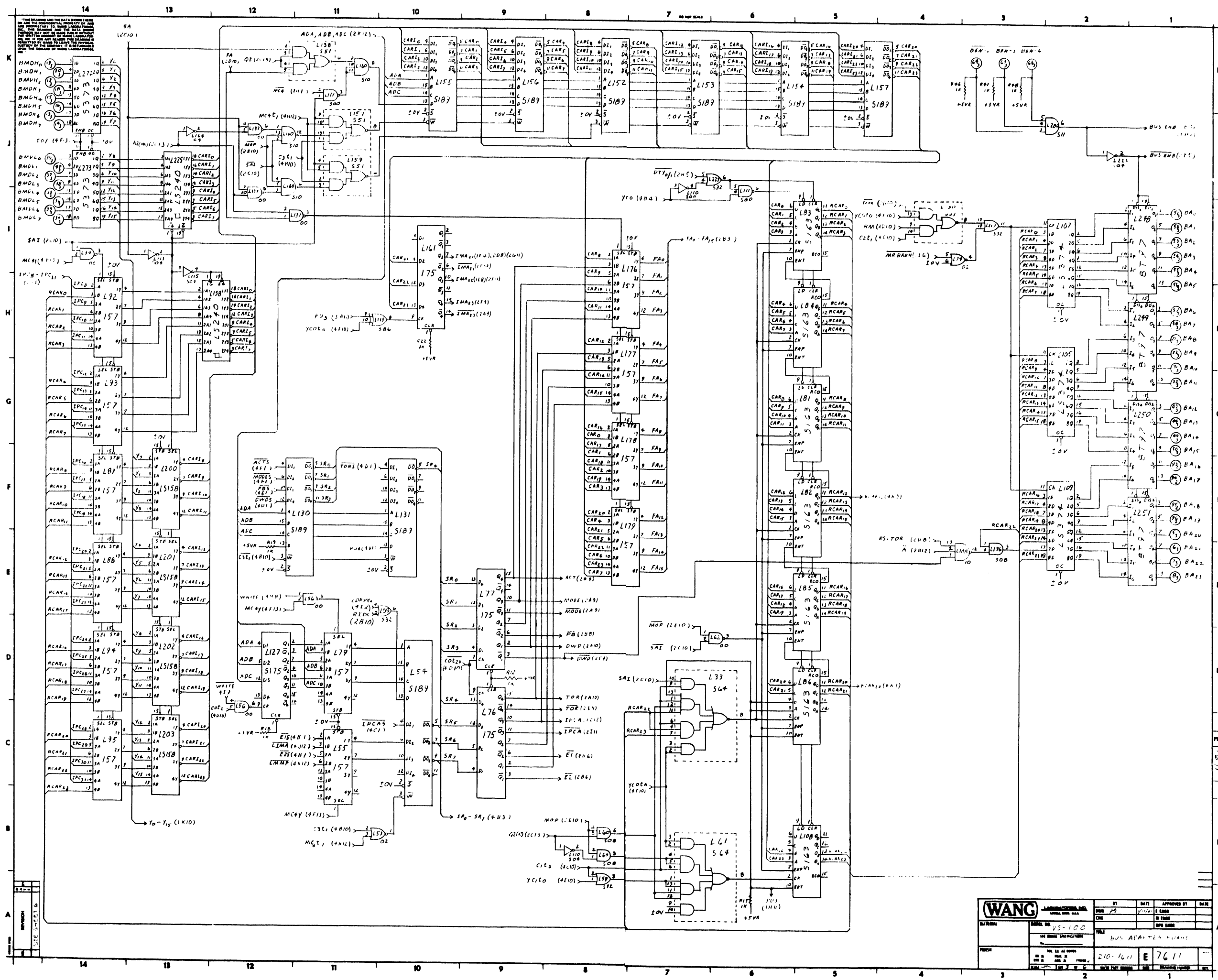




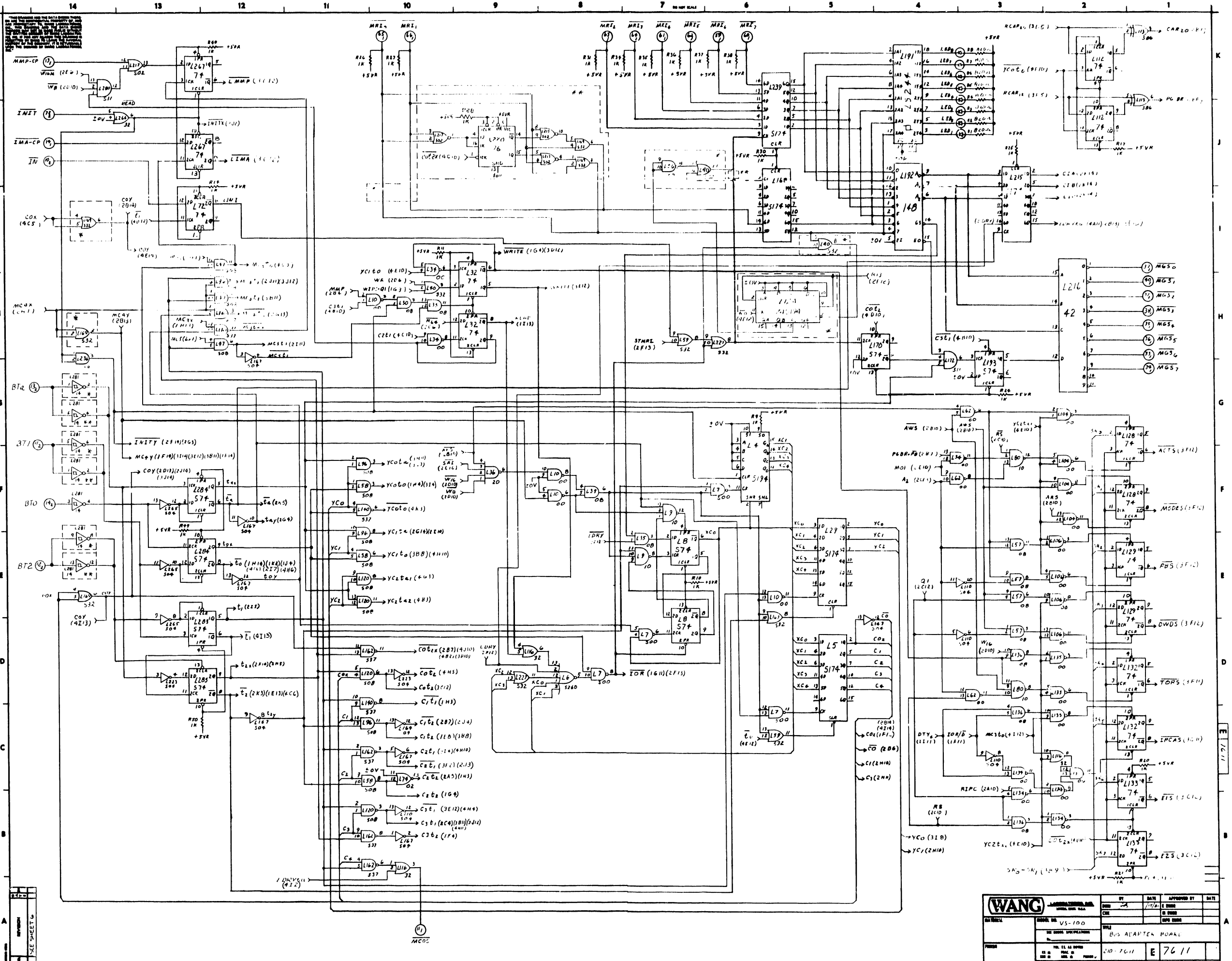
Handwritten notes and specifications in the top-left corner, including component values and circuit descriptions.

REV	DATE	BY	APPROVED BY
1			
2			

<b>WANG</b>		BY	DATE	APPROVED BY	DATE
MODEL NO. VS 100		WJ	7-11-66	E. J. BARR	7-11-66
TITLE		HUS ALI TA PUA			
DRAWN BY		E. J. BARR			
CHECKED BY		E. J. BARR			
DATE		7-11-66			
DRAWING NUMBER		7611			



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. 7600		DATE	DATE	DATE
SERIAL NO. 210-1611		DATE	DATE	DATE
BUS ALPHABETIC		DATE	DATE	DATE
E 7611		DATE	DATE	DATE



<b>WANG</b>		BY	DATE	APPROVED BY	DATE
MODEL	VS-100	CHK	7/17/66	E. B. BIRD	
BUS ADAPTER BOARD		CHK		W. J. BIRD	
REV. 11.14.66		CHK			
NO. 11.14.66		CHK			
E 7611		CHK			



THIS DRAWING AND THE DATA HEREON ARE THE PROPERTY OF THE COMPANY AND SHOULD BE KEPT IN CONFIDENCE. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR DISSEMINATION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED. THE COMPANY ASSUMES NO LIABILITY FOR DAMAGE OF ANY KIND, INCLUDING CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF THIS INFORMATION. THE COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR RELIABILITY OF THE INFORMATION CONTAINED HEREIN. THE COMPANY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR MISTAKES THAT MAY APPEAR HEREIN. THIS DRAWING IS THE PROPERTY OF THE COMPANY AND IS LOANED TO YOU FOR YOUR USE ONLY. IT IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

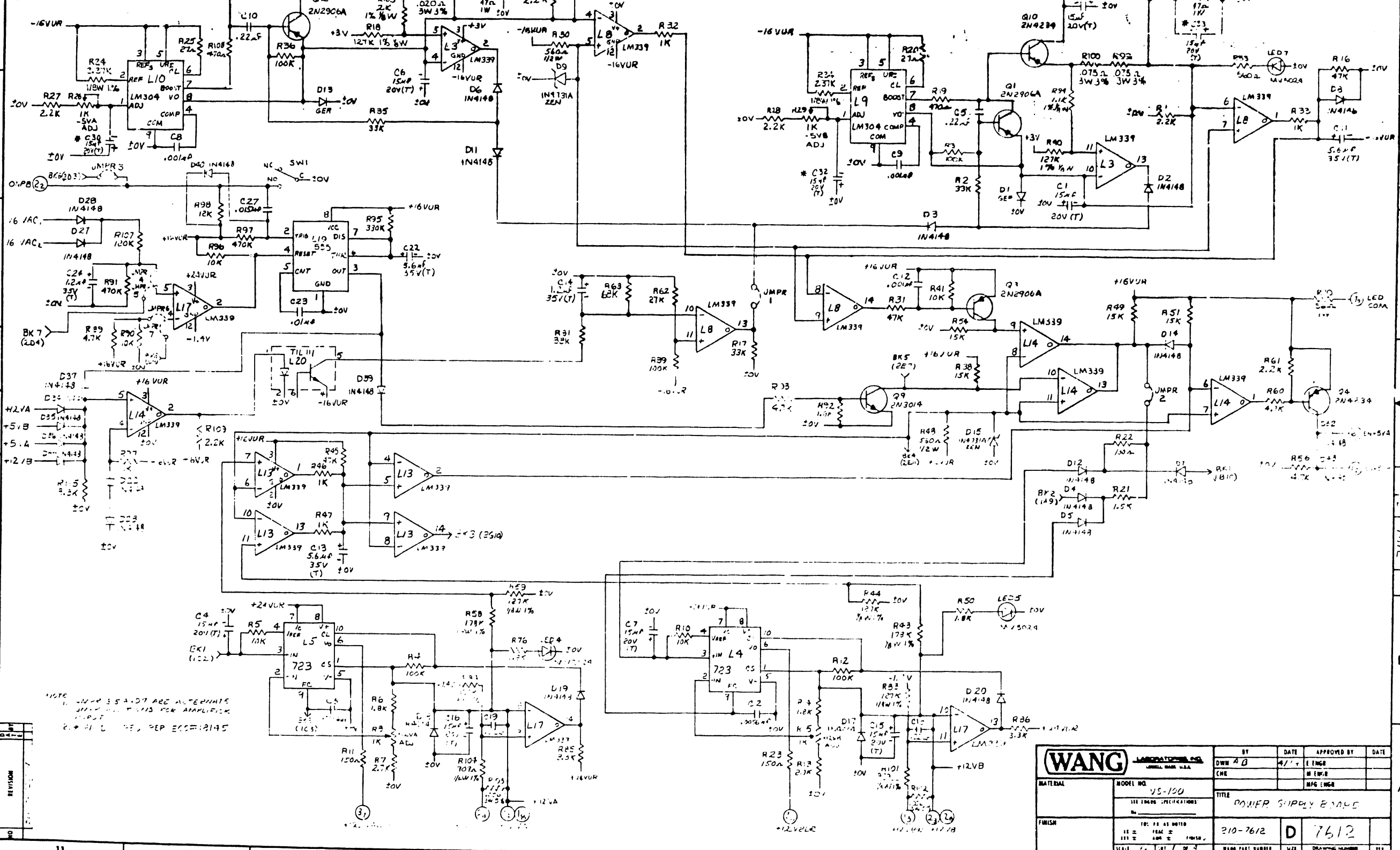
NO.	DATE	REVISION

NOT TO SCALE  
DO NOT SCALE

<b>WANG</b> LABORATORY CO. LABORATORY		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	OWN		ENGINEER	
	SCALE	CHK		MFG ENGR	
DRAWING INFORMATION		TITLE			
NO. OF SHEETS					
SHEET NO.					
DATE					



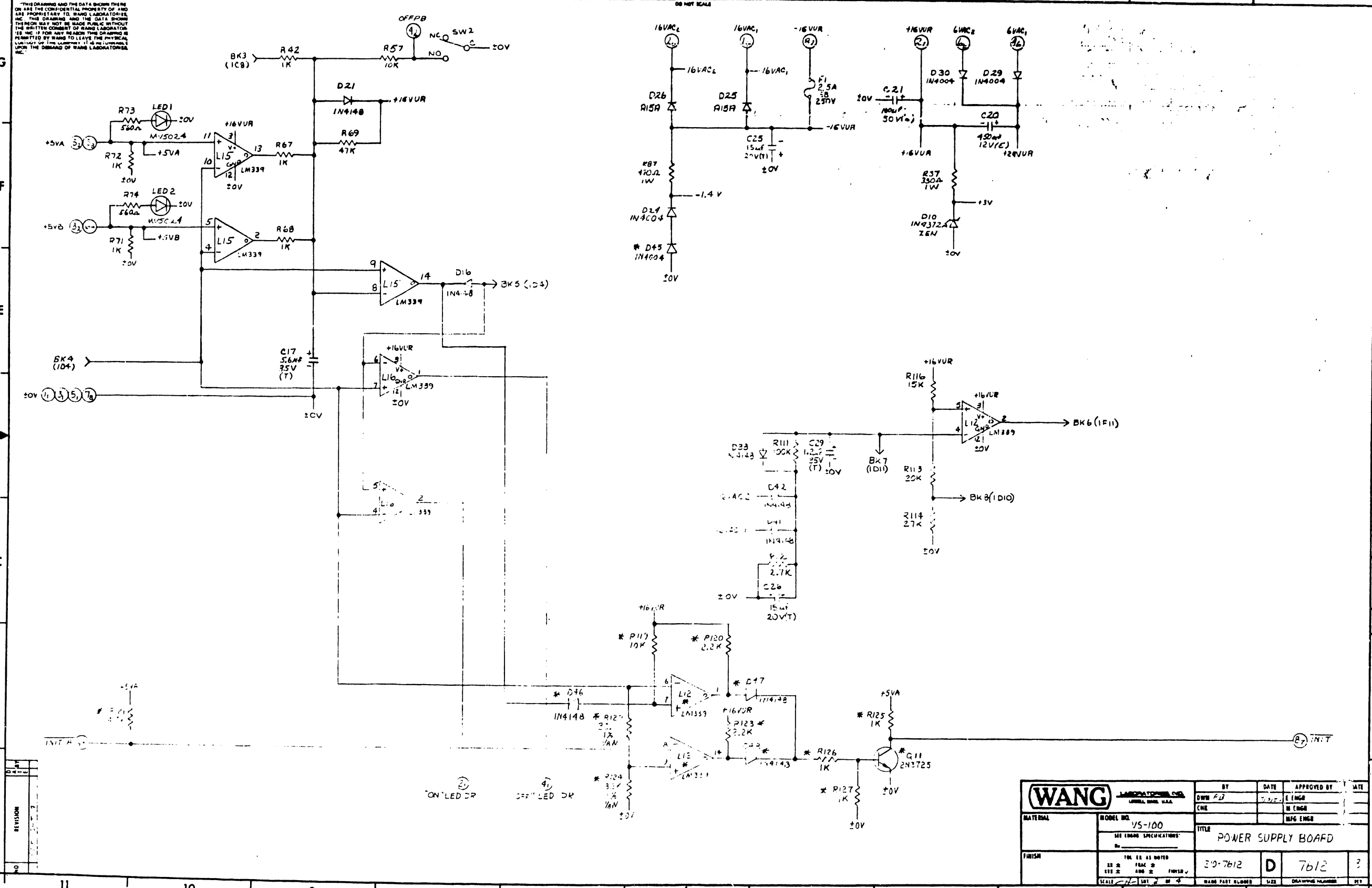
THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THE DRAWING AND THE DATA SHOWN THEREON MAY NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



REV	DESCRIPTION
1	AS SHOWN
2	REVISED

<b>WANG</b> LABORATORIES, INC. LITTLE ROCK, ARK. U.S.A.		BY DWN AB	DATE 4/77	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. 55-100	TITLE POWER SUPPLY BASE			
FINISH		10: AS SHOWN	210-7612	D	7612
		SCALE: 1:1	SIZE: 11" x 17"	DRAWING NUMBER	REV

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED BY ANY OTHER PARTY, THE LIABILITY OF THE REPRODUCER SHALL BE LIMITED TO THE DEMAND OF WANG LABORATORIES, INC.



REVISION	DATE	BY	APPROVED BY
1			

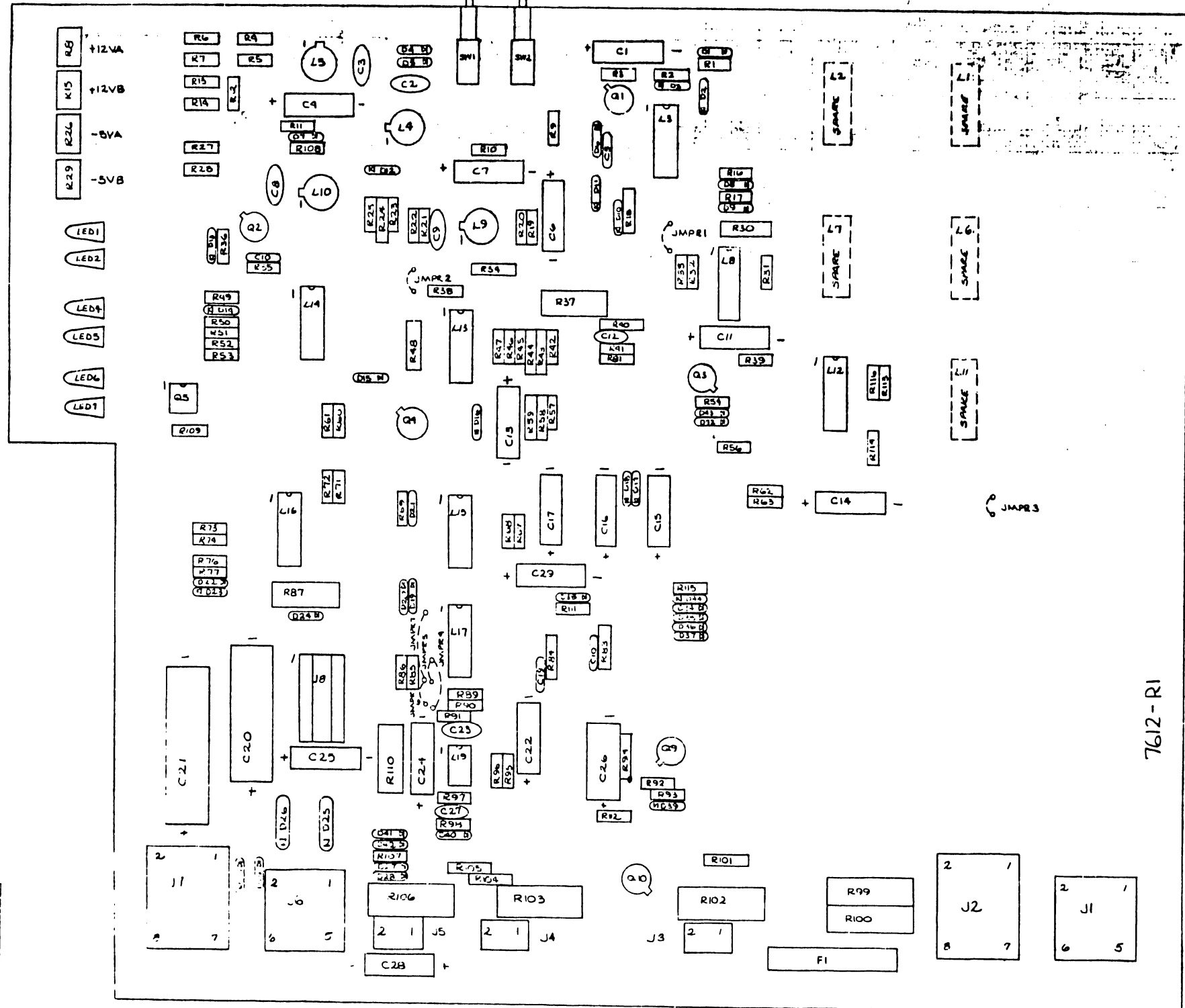
<b>(WANG)</b> LABORATORIES, INC. LIMEX BLDG. 544		BY	DATE	APPROVED BY	SITE
MODEL NO. VS-100		OWN	7-2-72	E INGR	
SEE LEGAL SPECIFICATIONS		CNE		M ENGR	
TITLE POWER SUPPLY BOARD				MFG ENGR	
FINISH	FOR 22 25 DATED	20-7612	D	7612	3
	22 25	20-7612	D	7612	3
	22 25	20-7612	D	7612	3
	22 25	20-7612	D	7612	3

22"  
11"  
11"  
8.5"  
8.5"  
11"  
17"  
22"

22"  
11"  
11"  
8.5"  
8.5"  
11"  
17"  
22"

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THESE DRAWINGS AND THE DATA SHOWN THEREON MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THE DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL POSSESSION OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

NO NET SCALE



7612-R1

REV	DATE	DESCRIPTION
1		ISSUE SHEET 4

<b>WANG</b> LABORATORIES, INC. LONDON, ENGLAND		BY CME	DATE 11-1-62	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. VS-100	TITLE POWER SUPPLY BOARD			
FINISH	SEE INDR. SPECIFICATIONS	210-7612	D	7612	5
SCALE: 1:1		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

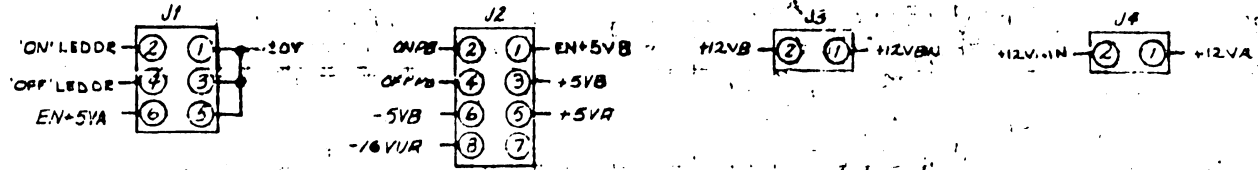


THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES AND ARE PROPRIETARY TO WANG LABORATORIES. THE DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL POSSESSION OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

IC LOCATION	TYPE	WANG PART NO.
L1,2,6,7,11	SPARE	
L3,8,13,17	LM339	376-0240
L4,5	725	376-0066
L9,10	LM304	376-0124
L19	555	376-0126

COMPONENT	TYPE	WANG PART NO.
C1,4,6,7,51,23,28,30,31,32,33	15uF 20V (T)	300-4022
C2,3	.0056uF 500V	300-1915
C8,9,12	.001uF 500V	300-1906
C11,13,17,22	5.6uF 35V (T)	300-4017

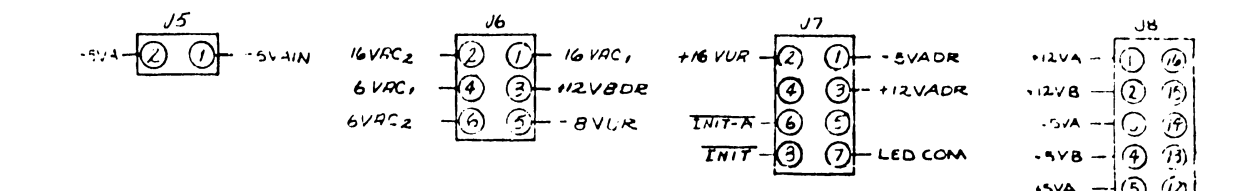
MNEMONIC	COORD.
EN+5VA	101
ON LED DR	2AB
OFF LED DR	2A7



COMPONENT	TYPE	WANG PART NO.
R6,9	60K 1/4W 10%	330-4068
R13	20K 1/4W 10%	330-4020
R12,17,18,21,22,23,24,25,26,27,28,29,30,31,32,33	2.2K 1/4W 10%	330-3022
R2,17,35,81	33K 1/4W 10%	330-4033
R3,4,23,38,39,111	100K 1/4W 10%	330-5010
R5,10,41,52,90,96	10K 1/4W 10%	330-4010

COMPONENT	TYPE	WANG PART NO.
C20	.45uF 12V (E)	300-3043
C21	100uF 50V (E)	300-3052
C23	.01uF 25V	300-1903
C14,24,29	1.2uF 35V (T)	300-4013
C27	.015uF	300-1928
C5,16,19	.22uF	300-1902

MNEMONIC	COORD.
DI1/B	1F11
DI2/B	2F8
20V	2E11
+5VA/N	15B
+5VA	2F11
-5VA	10B
-5VADR	1G10
+5VB	2F11
-5VB	1G2
INIT	2B1
INIT-A	2B11
6VAC1	2G3
6VAC2	2G1
-8VUR	1G3



COMPONENT	TYPE	WANG PART NO.
D1,3	3ER	330-0000
D2,8,11,24,41,42,23,27,28,32,34,44,46,47,49	1N4148	330-1014
D9,15	1N4731A 4.3V	380-2134
D14,29,30,37,94,95	1N4004	330-4000
D25,26	915R	330-3008
D10	1N4372A	380-2129
Q5	TIL111	375-2109
Q1-3	2N2906A	375-1017
Q4	2N4234	375-1024
Q9	2N3014	375-0017

MNEMONIC	COORD.
+12VA	1A7
+12VADR	1A9
+12VAIN	1A8
+12VB	1A9
+12VBDR	1A5
+12VBUR	1A4
16VAC1	2G6
16VAC2	2G4
+6VUR	2G4
-16VUR	2G5
LED COM	1E1
EN+5VB	1C1

COMPONENT	TYPE	WANG PART NO.
LED1,2,4,7	LAMP, P50	370-0026
J1,6	HDR, 6 PIN	654-1136
J2,7	HDR, 3 PIN	654-1130
J3,9,5	HDR, 2 PIN	654-1133
J8	SKT, 16 PIN	376-9005
SW1,2	SPDT, 16 PIN	325-0041

MNEMONIC	COORD.
-8VUR	1G3
+12VA	1A7
+12VADR	1A9
+12VAIN	1A8
+12VB	1A9
+12VBDR	1A5
+12VBUR	1A4
16VAC1	2G6
16VAC2	2G4
+6VUR	2G4
-16VUR	2G5
LED COM	1E1
EN+5VB	1C1

COMPONENT	TYPE	WANG PART NO.
F1	1A 250V	300-0006
Q11	2N2725	375-0227

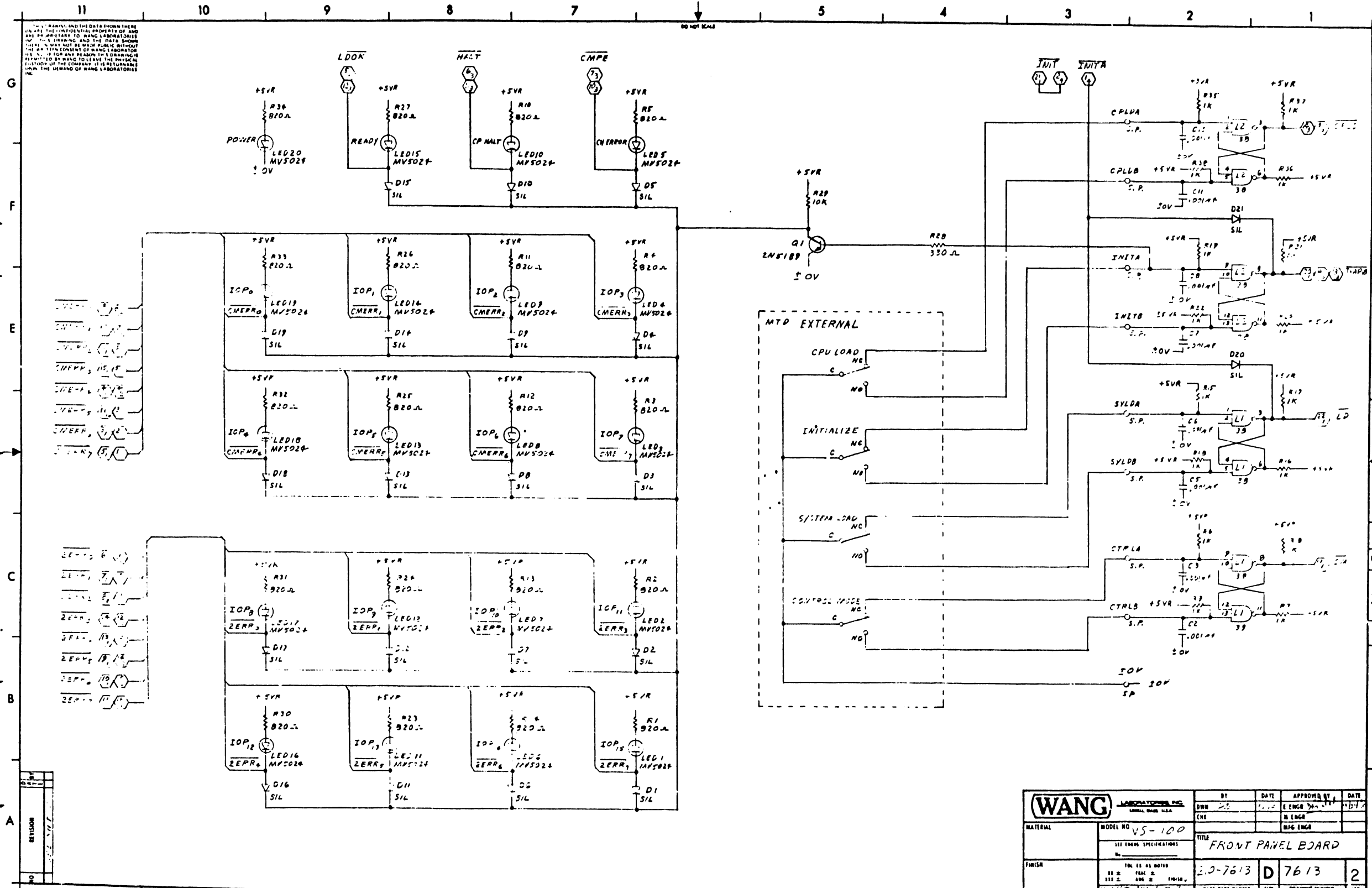
IC TYPE	LOCATION	SPARES
LM339	L3	2
LM339	L12	1
LM339	L15	1
LM339	L16	2
LM339	L7	1

COMPONENT	TYPE	WANG PART NO.
R12,17,18,21,22,23,24,25,26,27,28,29,30,31,32,33	2.2K 1/4W 10%	330-3022
R2,17,35,81	33K 1/4W 10%	330-4033
R3,4,23,38,39,111	100K 1/4W 10%	330-5010
R5,10,41,52,90,96	10K 1/4W 10%	330-4010
R6,9	60K 1/4W 10%	330-4068
R13	20K 1/4W 10%	330-4020
R14,24,29	1.2K 1/4W 10%	330-4013
R15	.015uF	300-1928
R16,19	.22uF	300-1902
R20,42,43,44,45,46,47,49	1K POT	330-1014
R21,37	470K 1/4W 10%	330-5047
R22,25	27K 1/4W 10%	330-1027
R23	1.5K 1/4W 10%	330-3015
R24,34	2.2K 1/4W 10%	330-3033
R26	100K 1/4W 10%	330-5010
R27	150K 1/4W 10%	330-4033
R28,48,51,53,54	15K 1/4W 10%	330-4015
R29,58	17K 1/4W 10%	330-4017
R30,55,73,74	560K 1/4W 10%	330-4056
R31,32	500K 1/4W 10%	330-4050
R33	50K 1/4W 10%	330-4005
R34	11K 1/4W 10%	330-4011
R35	22K 1/4W 10%	330-5033
R36	11K 1/4W 10%	330-4011
R37	470K 1/4W 10%	330-5047
R38	11K 1/4W 10%	330-4011
R39	22K 1/4W 10%	330-5033
R40	120K 1/4W 10%	330-5012
R41	560K 1/4W 10%	330-4056

REVISION	BY	DATE	APP'D
1	...	...	...
2	...	...	...

<b>WANG</b> LABORATORIES, INC. UNIVERSITY MICROFILMS		BY	DATE	APPROVED BY	DATE
MATERIAL		DESIGNED BY	5/12/72	5/12/72	5/12/72
MODEL NO. VS-100		CHECKED BY	...	...	...
SEE DRAWING SPECIFICATIONS		DATE	...	...	...
FINISH		TITLE	POWER SUPPLY BOARD		
VOL. 17 AS NOTED		NO. 210-7612	D	6/12	
SCALE: 1/8" = 1"		DATE	6/12		
DRAWN BY		DATE			

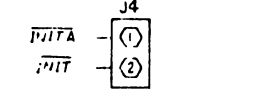
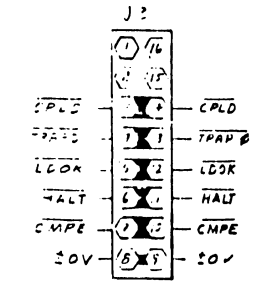
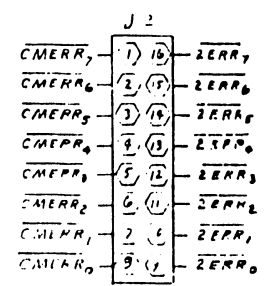
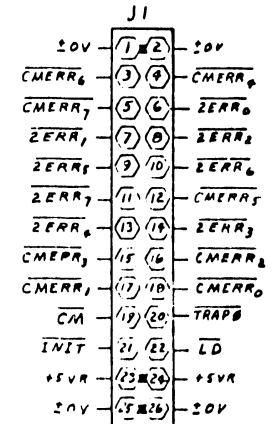
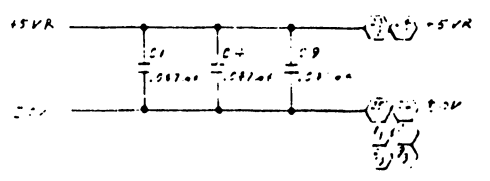
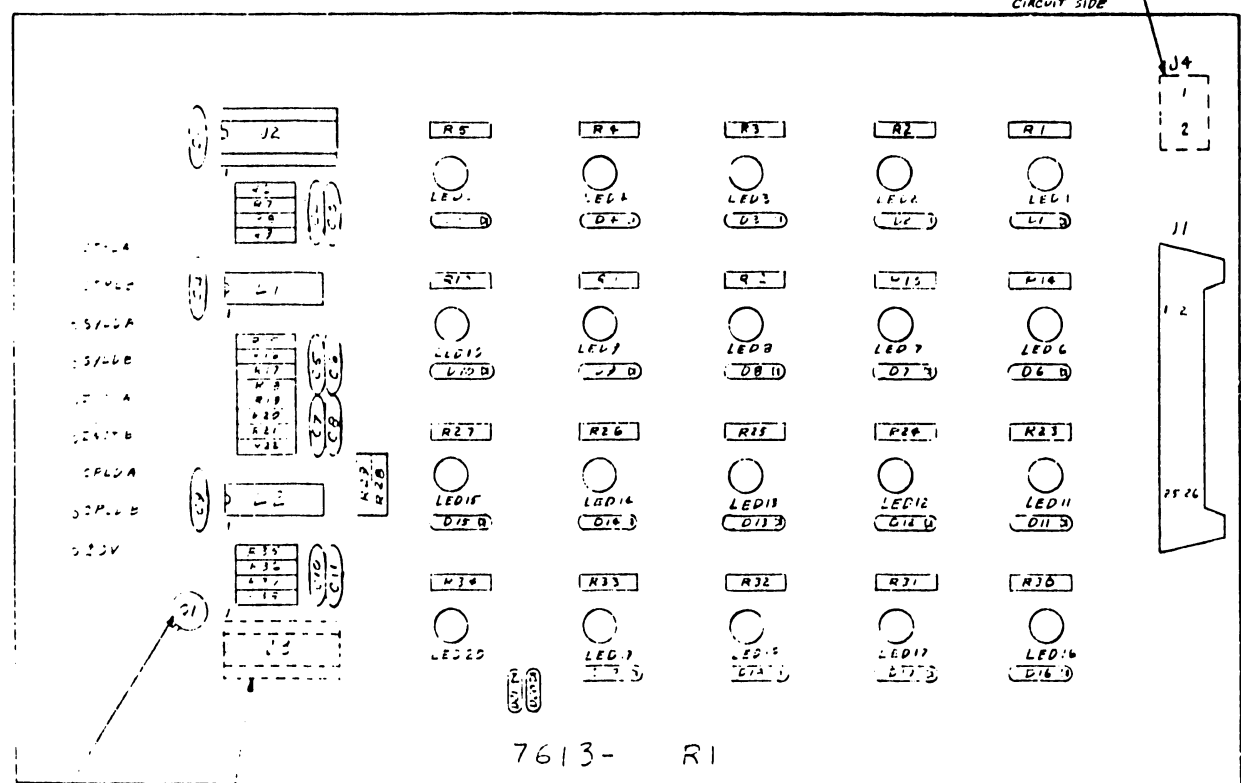
ALL DIMENSIONS AND DATA SHOWN THEREON ARE THE PROPERTY OF WANG LABORATORIES INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES INC. IF FOR ANY REASON THE DRAWING IS REPRODUCED BY ANY OTHER PARTY, THE LIABILITY OF THE COMPANY IS RETURNABLE TO THE USER OF WANG LABORATORIES INC.



<b>WANG</b> LABORATORIES INC. WANG LAB BLDG 240 CAMBRIDGE MASS 02142		BY DWB	DATE 11-77	APPROVED BY E ENGR	DATE 11-77
MATERIAL	MODEL NO 75-100	TITLE FRONT PANEL BOARD			
FINISH	REV. 11 AS NOTED REV 2 REV 3 REV 4 REV 5 REV 6 REV 7 REV 8 REV 9 REV 10 REV 11 REV 12	20-7613	D	7613	2

THIS DRAWING AND THE DATA CONTAINED THEREIN ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES AND ARE LOANED TO YOU BY WANG LABORATORIES. YOU ARE NOT TO REPRODUCE OR DISSEMINATE THIS INFORMATION IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES. IT IS THE POLICY OF WANG LABORATORIES TO RETURN ALL INFORMATION TO THE COMPANY UPON THE DEMAND OF WANG LABORATORIES.

DO NOT SCALE



I.C. LOC	W.L. PART NO.	TYPE
LI.2	376-012B	7430

IDENTIFIER	COORDINATE
CM	1 5 1
CMERR0-ZERR7	1 8 11
CMPE	1 9 1
CPD	1 9 1
HALT	1 9 2
TRAPB	2 3
INITA	1 5 3
LD	1 5 1
LDRK	1 5 1
TRAPB	1 5 1
ZERR0-ZERR7	1 8 11

COORDINATE	W.L. PART NO.	TYPE
R1-5, 10-15, 23-27, 32-34	330-2002	510A 1/4W 5%
R6-9, 16-22, 35-38	330-3011	1/4 1/2W 5%
R29	330-2034	330A 1/4W 5%
R29	330-4011	2 1/2 1/2W 5%
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100	330-1117	510A 1/4W 5%
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100	330-1120	510A 1/4W 5%
C-21	330-1117	510A 1/4W 5%
G1	375-1021	2N3904
G1	375-3001	TRANSIPAD
LED1-LED20	375-2020	510A 1/4W 5%
G-21	375-1117	510A 1/4W 5%
J1	350-005B	20 POS
J2, 3	376-7020	18 PIN SOCKET
J4	654-119B	2 POS

NOTE:  
 1. ALL RESISTORS ARE 1/4W 5%, UNLESS OTHERWISE SPECIFIED.  
 2. Q1 TO BE MOUNTED ON TRANSIPAD.

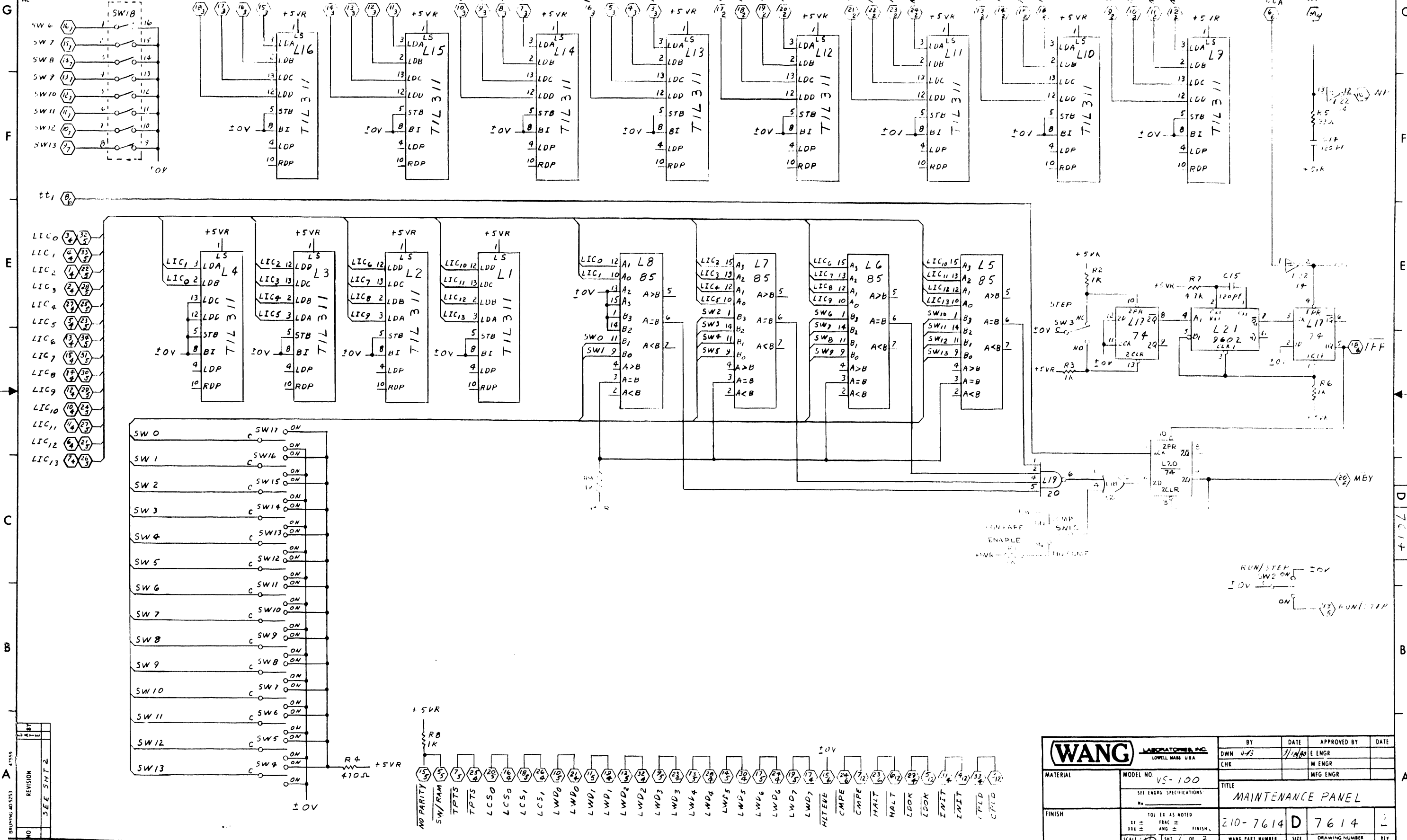
E-REV  
 1

REV	DATE	BY	DESCRIPTION
1	11/15/68	WJ	INITIAL DESIGN
2	12/15/68	WJ	REVISED PER ECO 27591125507
3	1/15/69	WJ	APPENDIX 3 ADDED

WANG LABORATORIES INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. VS-100		DNW	11/15/68	E ENGR	11/15/68
SERIAL SPECIFICATIONS		CHU	12/15/68	M ENGR	12/15/68
TITLE		FRONT PANEL BOARD			
MATERIAL		210-7613 D 7613 2			
FINISH		DRAWING NUMBER			

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES INC.

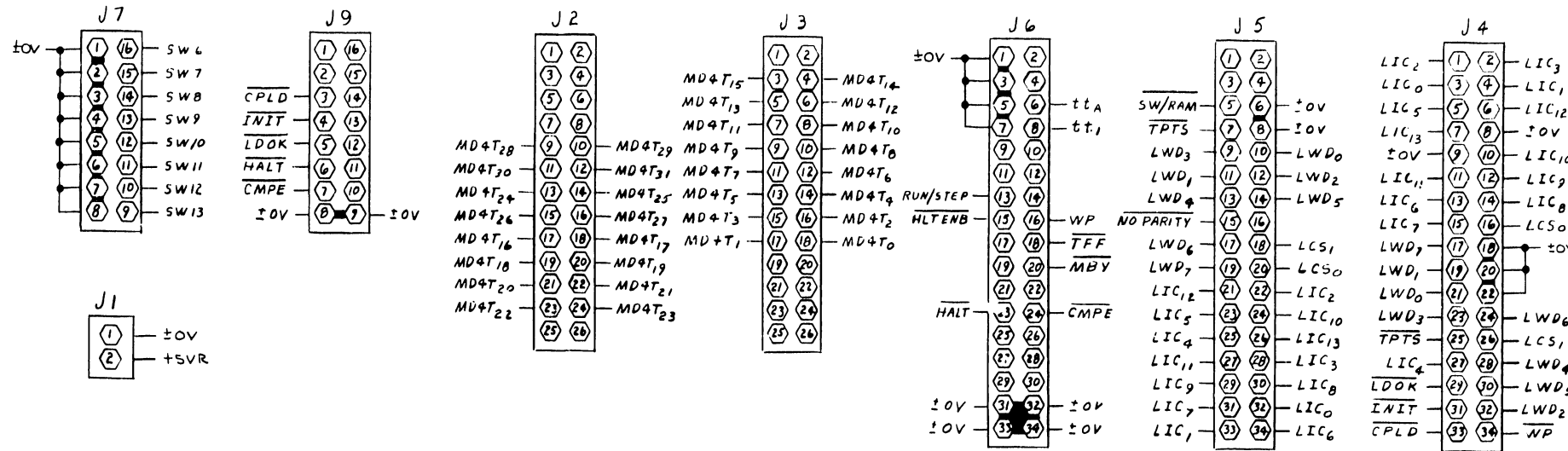
DO NOT SCALE



NO.	REVISION
1	SEE SHT. 2

<b>WANG LABORATORIES, INC.</b> LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN JFS	7/14/60	E ENGR	
MODEL NO. VS-100 SEE ENGRG. SPECIFICATIONS No.		TITLE			
		MAINTENANCE PANEL			
FINISH	TOL. EX. AS NOTED .01 ± FRACTION ± FINISH .001 ± ANG ± FINISH SCALE: 1/8" = 1" SHT. 1 OF 2	210-7614	D	7614	
WANG PART NUMBER		SIZE	DRAWING NUMBER	REV.	

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

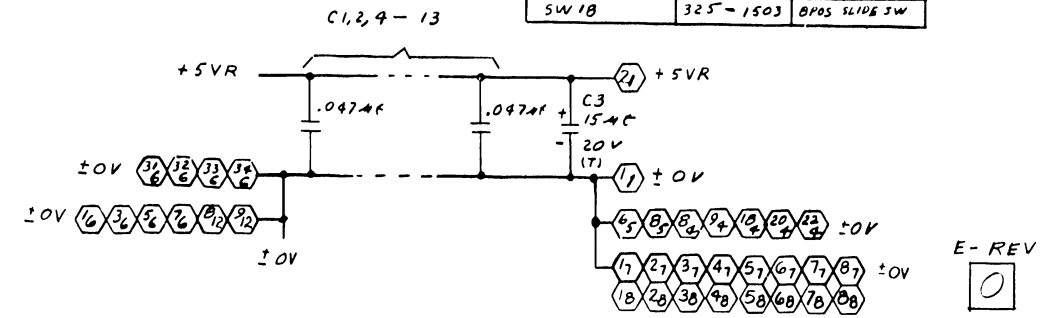
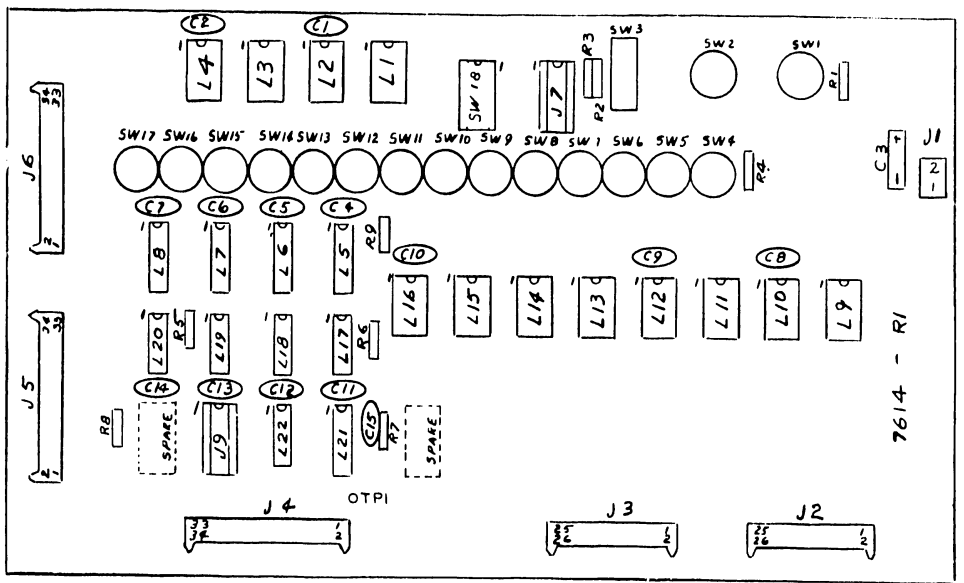


MNEMONICS	COORDINATE
CMPE	1 A 5
CPLD	1 A 4
HALT	1 A 5
HLT ENB	1 A 5
INIT	1 A 4
LCS0	1 A 0
LCS1	1 A 7
LDOK	1 A 4
LIC0 - LIC13	1 E 11
LWD0 - LWD7	1 A 7
MBY	1 C 1
MD4T0 - MD4T7	1 G 10
NO PARITY	1 A B
RUN/STEP	1 B 1
SW6 - SW13	1 G 11
SW/RAM	1 A B
TFF	1 D 1
TPTS	1 A 0
ttA	1 G 1
ttI	1 F 11
WP	1 F 1
WP	1 G 1

I.C. LOC.	WL PART NO	TYPE
L1-4, 8-16	340-0015	TEL 311
L5-7	376-0087	74B5
L17, 20	376-0006	7474
L18	376-0093	7432
L19	376-0004	7420
L21	376-0104	9602
L22	376-0139	7414

COMPONENT	W.L. PART NO	TYPE
R1, 2, 3, 6, 8, 9	330-3010	1K 1/2W 10%
R4	330-2047	470 Ω 1/2W 10%
R5	330-1033	33 Ω 1/2W 10%
R7	330-3047	4.7K 1/2W 10%
C1, 2, 4-13	300-1962	.047MF 50V
C3	300-4022	15MF 20V (T)
C14, 15	300-1120	120PF
J4, 5, 6	350-0429	3 PIN RT ANGLE
J2, 3	350-0058	26 PIN RT ANGLE
J7, 9	376-9024	16 PIN SOCKET
J1	654-1198	2 POS MOLEX
SW1, 2, 4-17	325-0006	3 PDT CTR OFF
SW3	279-0300	3 PDT MICRO
SW18	325-1503	8 POS SLIDE SW

I.C. TYPE	LOC.	SPACES
7414	L22	4
7420	L19	1
7432	L18	3
7474	L20	1
9602	L21	1

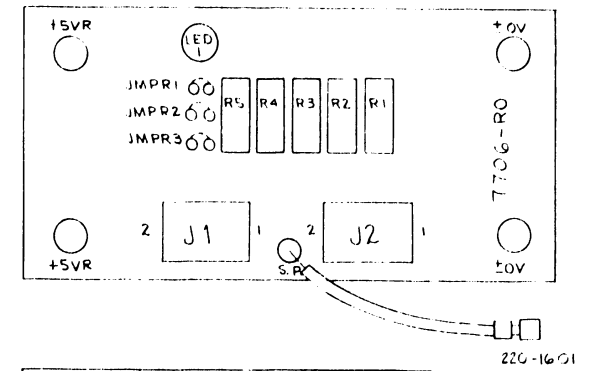
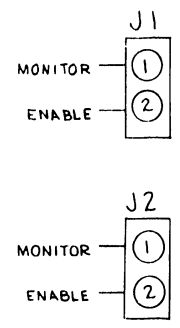
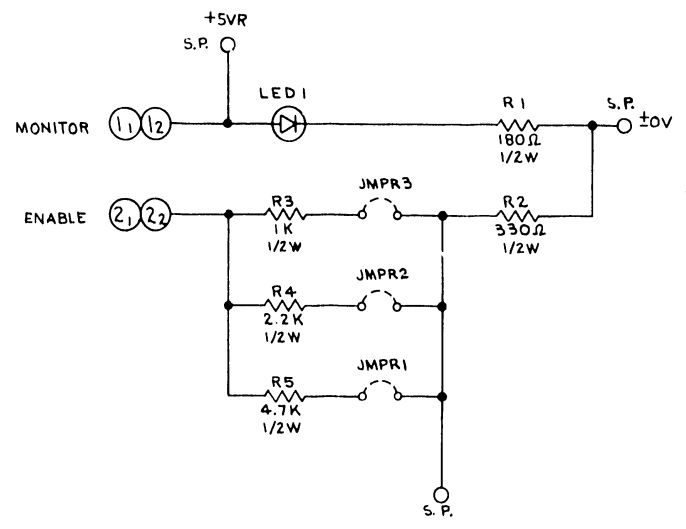


NO.	REVISION	BY	DATE
1	ORG PER	DB	11-4-80
2	DWR-EPI	DB	11-4-80
3	APP: D.L. HANIG	DB	11-4-80
4	REVIS PER	DB	11-4-80
5	ECOM 10710	DB	11-4-80
6	APPD: M. HANIG	DB	11-4-80
7	REV: ED PER	DB	11-4-80
8	EGO 17555	DB	11-4-80
9	APP: J. J. ...	DB	11-4-80

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: DWN	DATE: 9-18-80	APPROVED BY: [Signature]	DATE: 11-1-80
MATERIAL: [Blank]		CHK: [Signature]	M ENGR		
MODEL NO: VS-100		TITLE: MAINTENANCE PANEL			
FINISH: [Blank]		210-7614 D		7614 2	
SCALE: 1/8" = 1"		SHEET 2 OF 2		WANG PART NUMBER: 7614	

"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."

DO NOT SCALE



COMPONENT	TYPE	W.L. PART NO.
R1	180Ω 10% 1/2W	331-2018
R2	330Ω 10% 1/2W	331-2033
R3	1K 10% 1/2W	331-3010
R4	2.2K 10% 1/2W	331-3022
R5	4.7K 10% 1/2W	331-3047
LED1	LAMP, RED MV5024	370-0026
WIRE/LUG ASSY	#22 GA.	220-1601
J1,2	HEADER, 2 POS.	654-1198

E-REV  
0

REV	DATE	BY	APP'D.
1	10-20-80	DWB	LEP
2	11-14-80	APP'D.	APP'D.

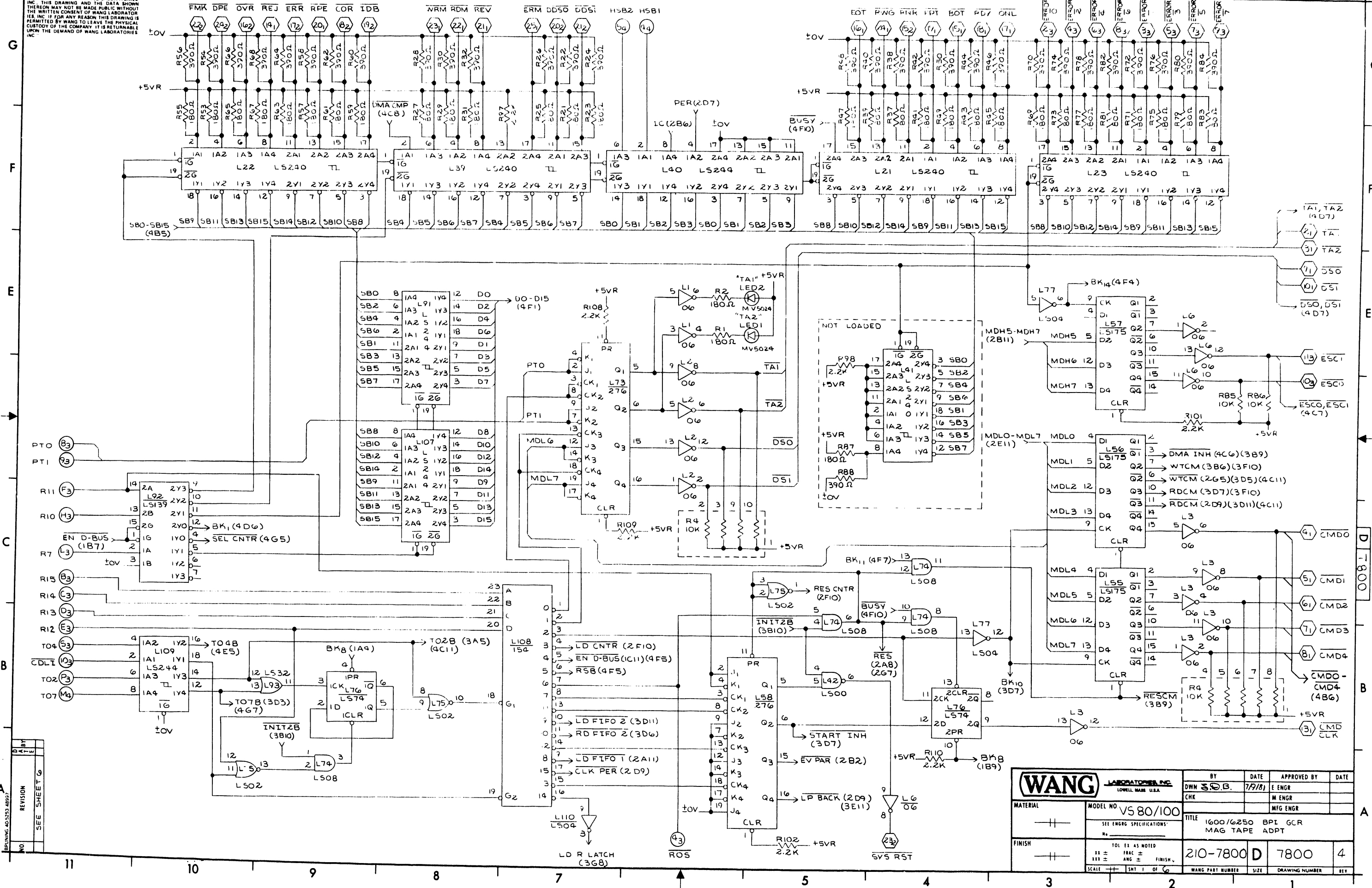
<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWB	DATE 10/22/80	APPROVED BY M ENGR	DATE 11/22/80
MATERIAL —  —	MODEL NO. VS 100 SEE ENGRG SPECIFICATIONS	TITLE SWITCHING REGULATOR INTERFACE			
FINISH —  —	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	210-7706	D	7706	
SCALE		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

D 7706

A

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE

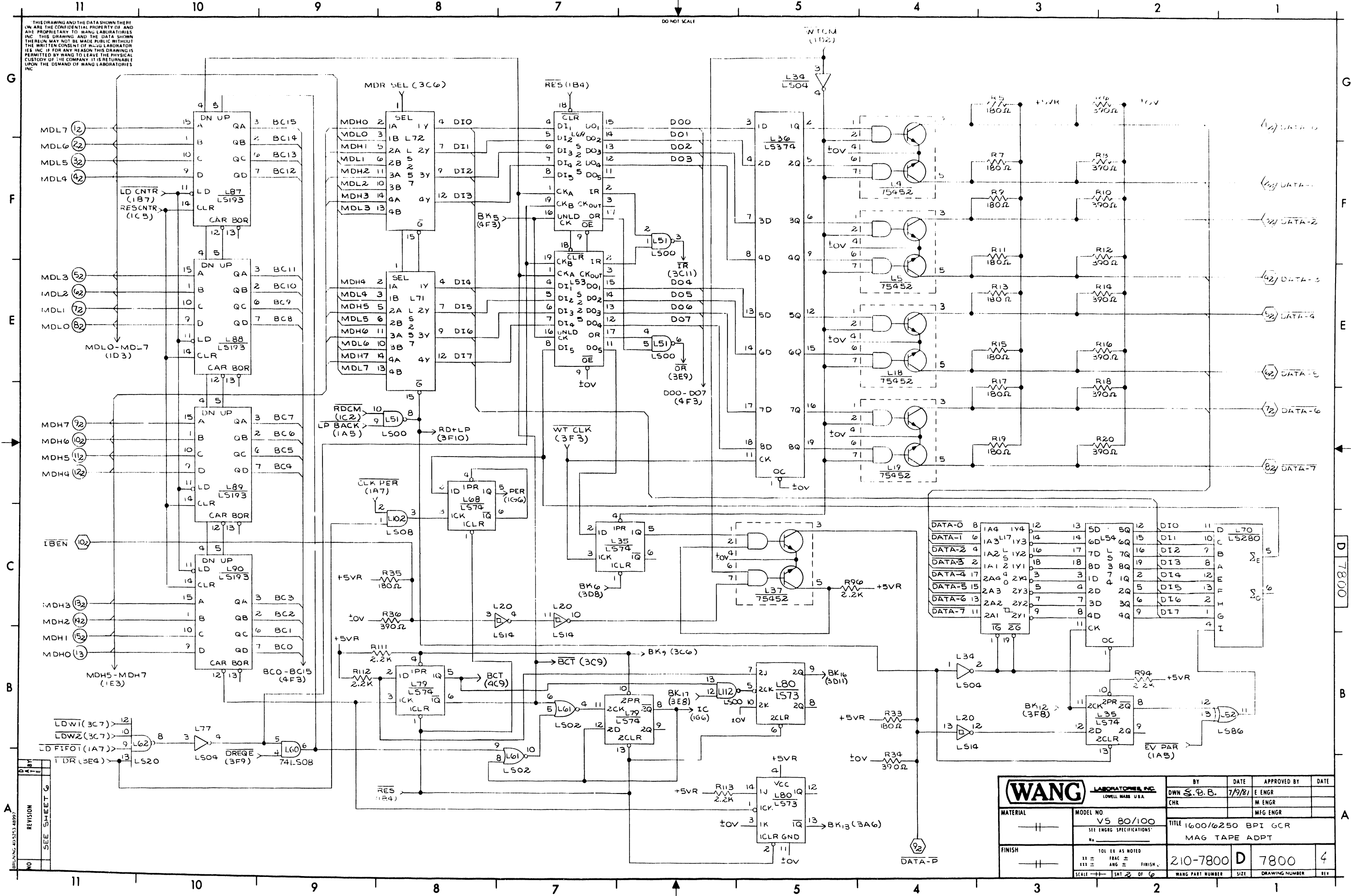


NO.	REVISION

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	3/9/81	E ENGR	
MODEL NO. VS 80/100		CHK		M ENGR	
SEE ENGRG SPECIFICATIONS		TITLE		1600/6250 BPI GCR MAG TAPE ADPT	
FINISH		SCALE		210-7800 D 7800 4	
		WANG PART NUMBER		SIZE	
				DRAWING NUMBER	
				REV	

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



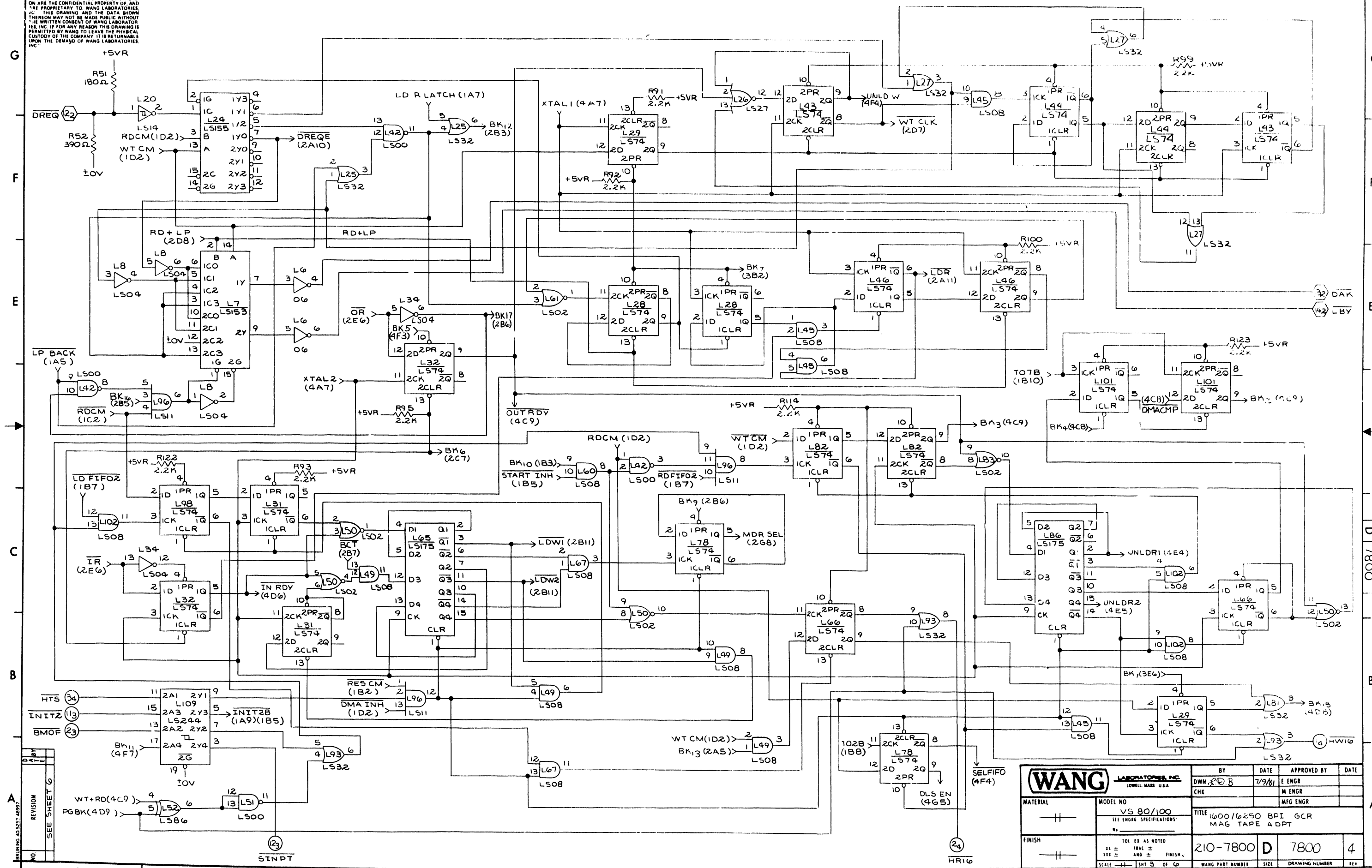
NO	REVISION	SEE SHEET

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN S.D.B.	DATE 7/9/87	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO VS 80/100 SEE ENGR SPECIFICATIONS	TITLE 1600/6250 BPI GCR MAG TAPE ADPT		MFG ENGR	
FINISH	TOL. EX. AS NOTED 1% ± FRAC ± FINISH 1% ± ANG ±	210-7800 D		7800	4
SCALE 1:1 SHT 2 OF 6		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV



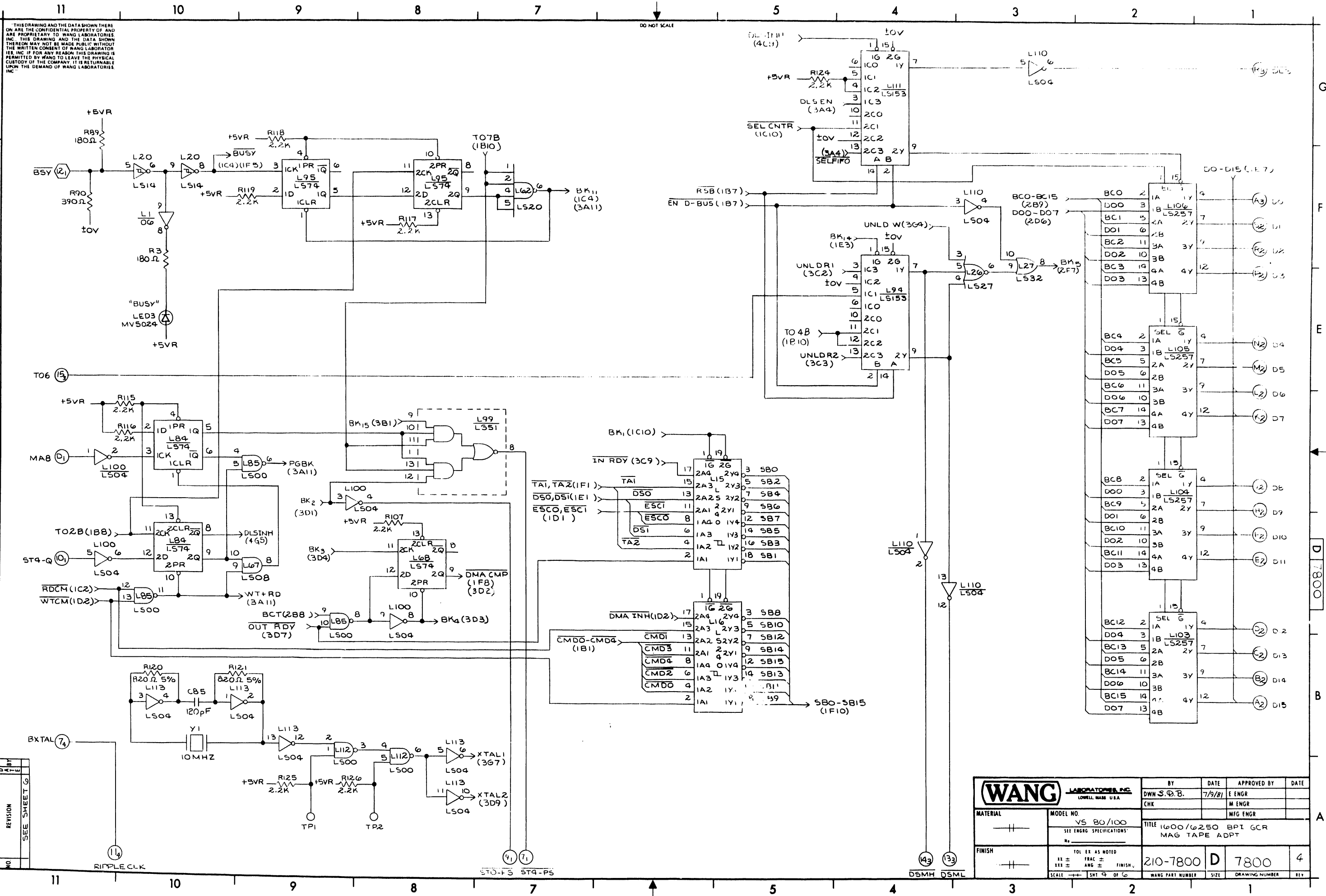
THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND THE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



NO	REVISION	DATE	BY	APPROVED BY

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 7/9/81	APPROVED BY M ENGR	DATE
MATERIAL —	MODEL NO VS 80/100 SEE ENGR. SPECIFICATIONS	CHK		MFG ENGR	
FINISH —	TOLERANCES AS NOTED 11 ± FRAC ± 112 ± ANG ± FINISH	TITLE 1600/6250 BPI GCR MAG TAPE ADPT			
	SCALE 1:1	SHT 3 OF 6	WANG PART NUMBER	SIZE D	DRAWING NUMBER 7800



THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

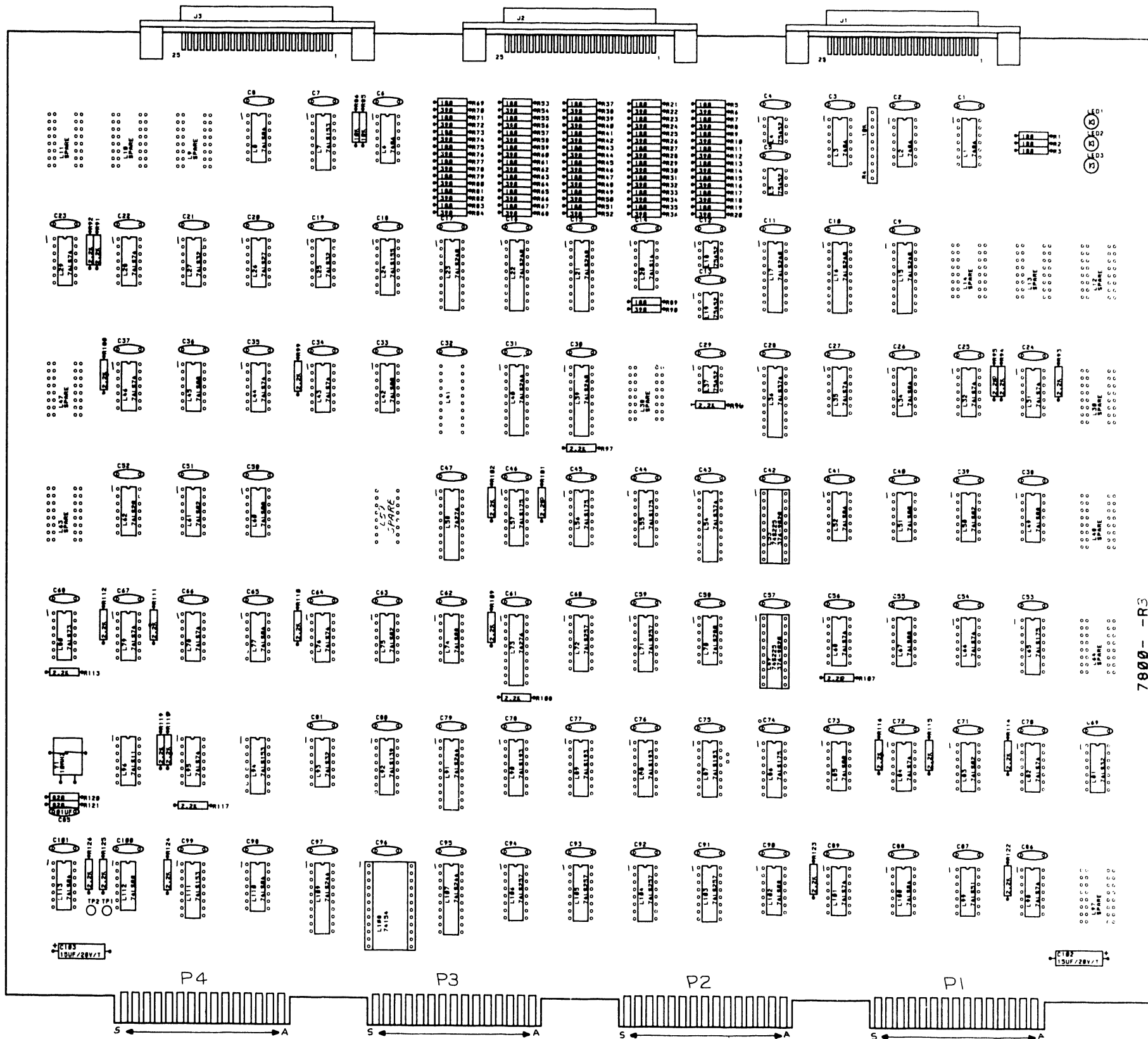
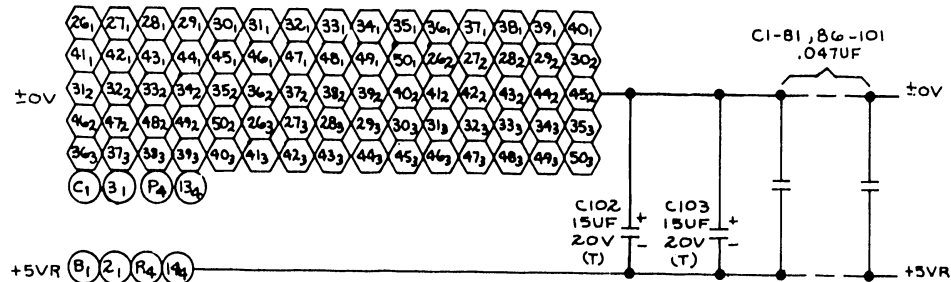
DO NOT SCALE

NO.	REVISION	DATE	BY	FILE

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWH S.D.B.	DATE 7/9/81	APPROVED BY E ENGR.	DATE
MATERIAL ---	MODEL NO. VS 80/100 SEE ENGRG SPECIFICATIONS	TITLE 1600/6250 BPI GCR MAG TAPE ADPT			
FINISH ---	TOI EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	210-7800	D	7800	4
SCALE --- SMT 4 OF 6		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



7800 - R3

NO	REVISION

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN S & B	DATE 7/9/81	APPROVED BY E ENGR	DATE
MATERIAL —  —	MODEL NO VS 80/100 SEE ENGR SPECIFICATIONS	CHK		M ENGR	
FINISH —  —	TITLE 1600/6250 BPI GCR MAG TAPE ADPT			MFG ENGR	
	210-7800	D	7800	4	
SCALE 1/8" = 1"	SHT 5 OF 6	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

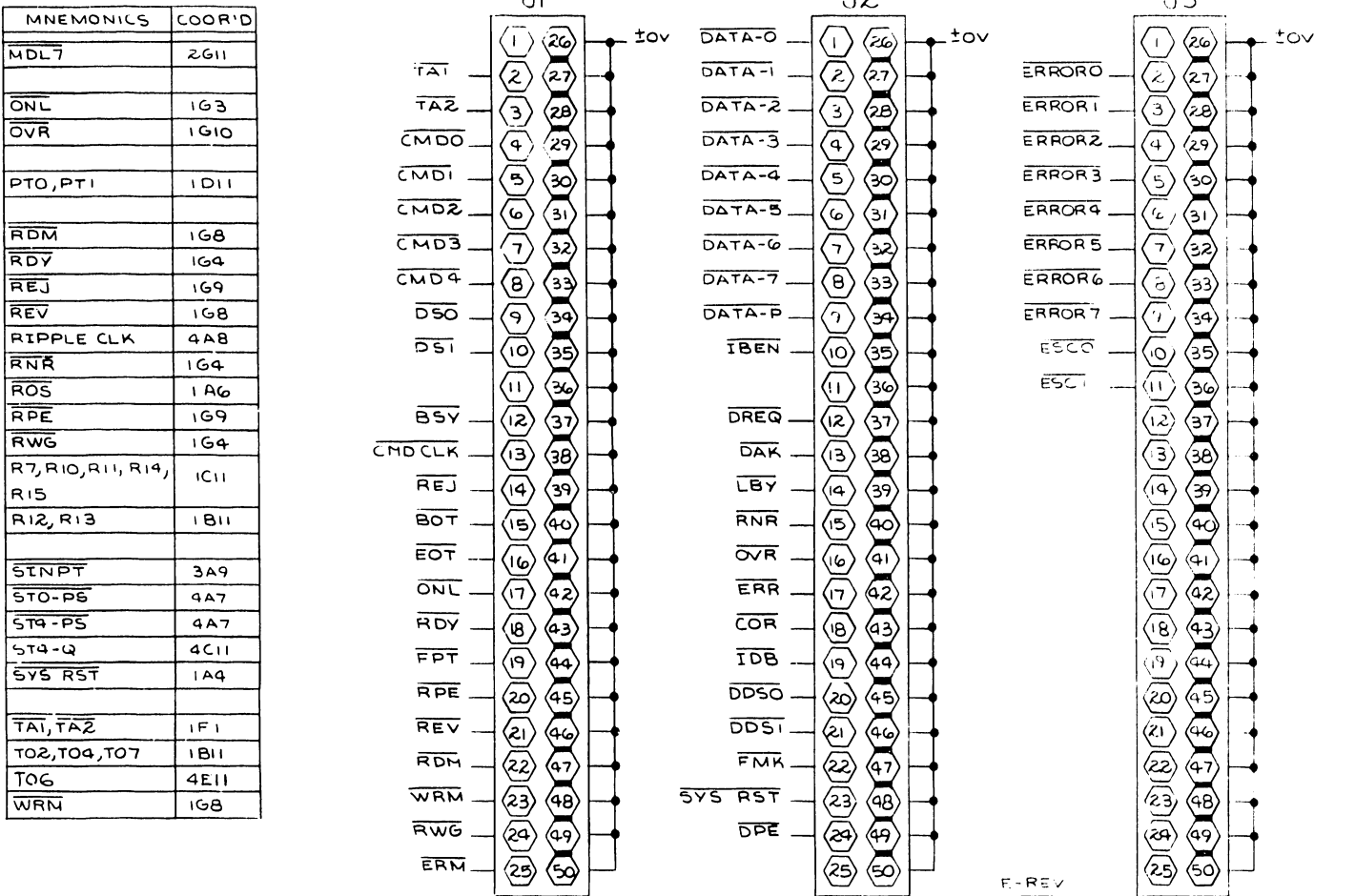
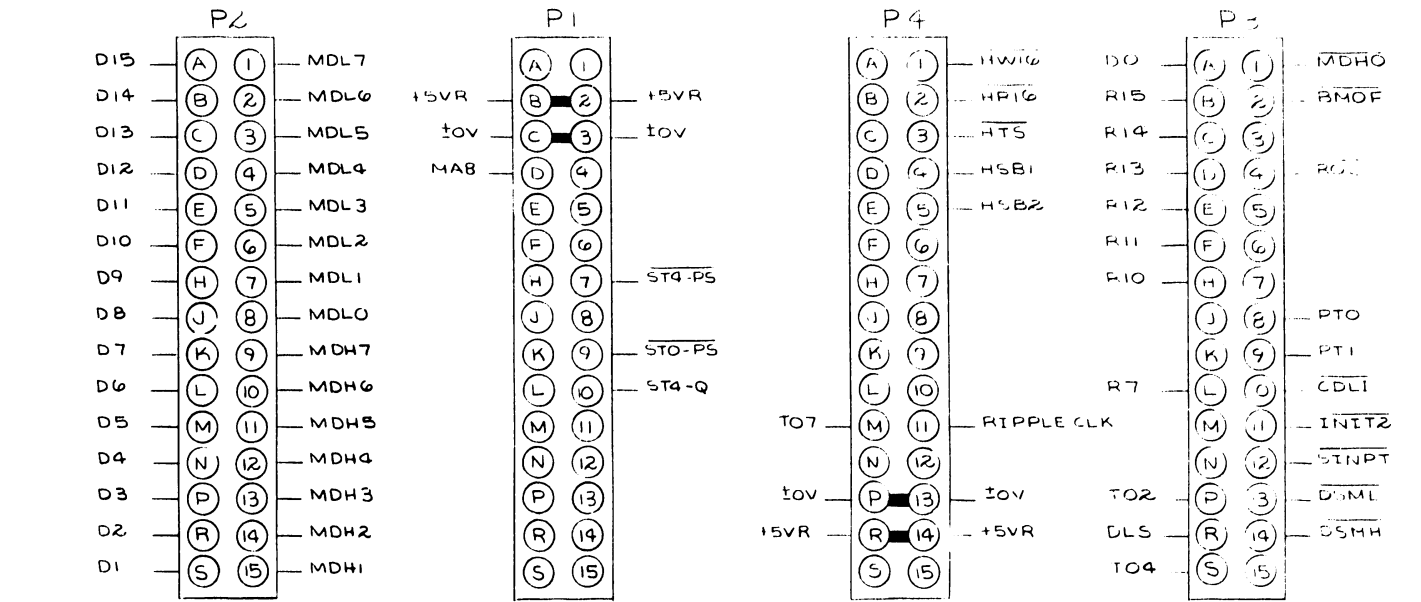
THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

I.C. LOCATION	TYPE	W.L. PART NO.
L1-3,6	7406	376-0055
L4,5,18,19,37	75452	376-0145
L7,94,111	74LS153	376-0156
L8,34,77,100,110,113	74LS04	376-0180
L9-14,30,38,47,48,63,64,97	SPARE	
L15-17,21-23,39	74LS240	376-0297
L20	74LS14	376-0322
L24	74LS155	376-0158
L25,27,81,93	74LS32	376-0211
L26	74LS27	376-0245
L28,29,31,32,35,43,44,46,66,68,76,78,79,82,84,95,98,101	74LS74	376-0155
L36,54	74LS374	376-0286
L40,91,107,109	74LS244	376-0288
L42,51,85,112	74LS00	376-0207
L45,49,60,67,74,102	74LS08	376-0153
L50,61,75,83	74LS02	376-0208
L52	74LS86	376-0231
L53,69	74S225	376-0323
L55-57,65,86	74LS175	376-0160
L58,73	74276	376-0318
L62	74LS20	376-0210
L70	74LS280	376-0242
L71,72,103-106	74LS257	376-0204
L80	74LS73	376-0304

COMPONENTS	TYPE	W.L. PART NO.
R1-3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,89	180 Ω 1/4W 10%	330-2018
R4	10K	333-0809
R6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,90	390 Ω 1/4W 10%	330-2039
R85,86	10K 1/4W 10%	330-4010
R91-97,99-102,107-119,122-126	2.2K 1/4W 10%	330-3022
R120,121	820 Ω 1/4W 5%	330-2083
C1-81,86-101	.047UF 50V	300-1966
C85	.01UF 25V	300-1903
C102,103	15UF 20V (T)	300-4022
J1-3	50 PIN CONN.	350-1045
LED1-3	MV5024,RED	370-0026
Y1	10MHZ	321-0008

TYPE	I.C. LOC.	SPARES
74LS00	L85	1
	L112	1
74LS02	L75	1
	L83	3
74LS04	L8	3
	L34	2
	L77	3
	L100	2
	L110	1
7406	L1	3
	L2	2

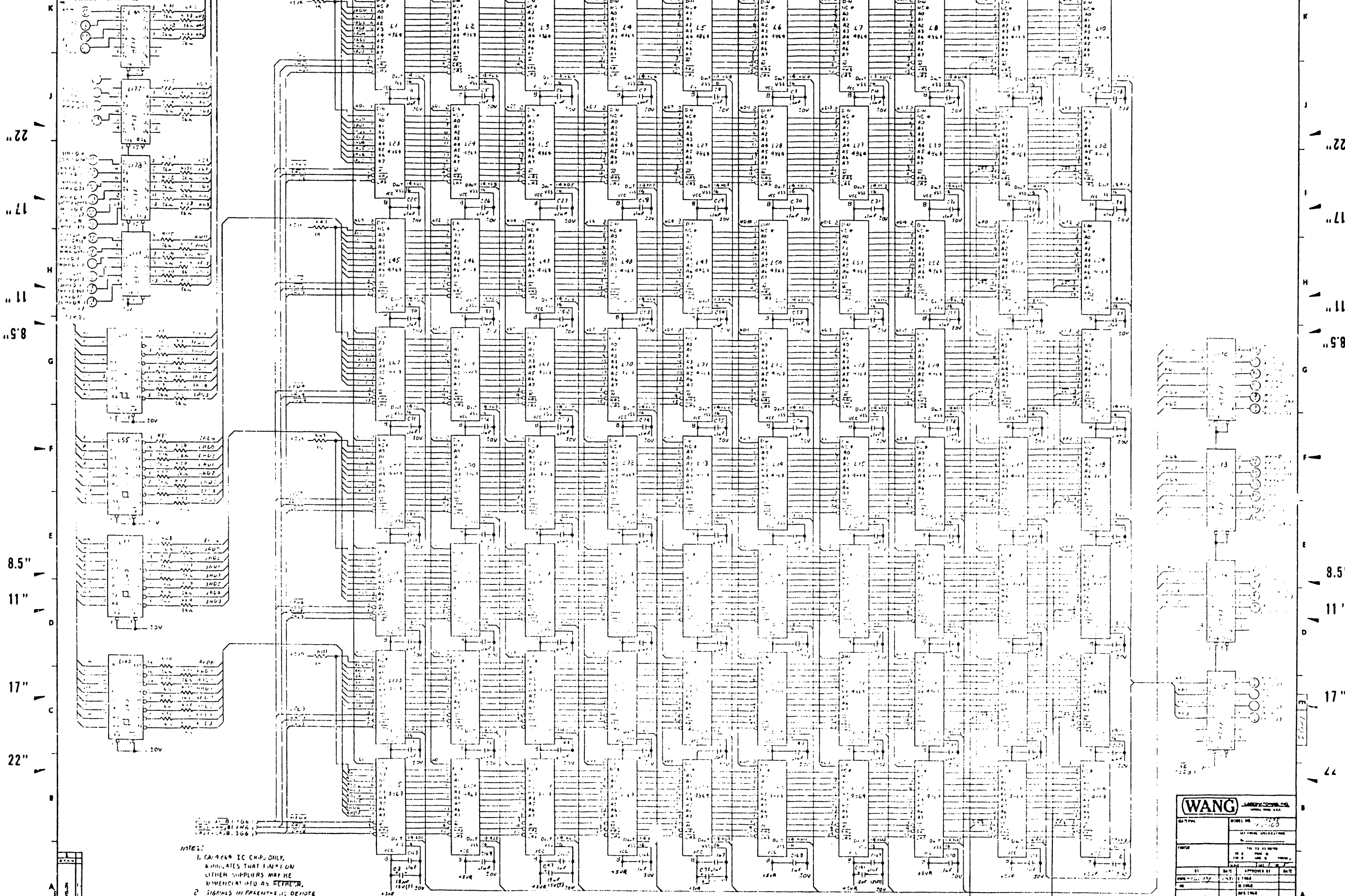
MNEMONICS	COORD
BMOF	3B11
BOT	1G4
BSY	4F11
BXTAL	4B11
CDLI	1B11
CMD CLK	1B11
CMD0-CMD2	1C1
CMD3,CMD4	1B1
COR	1G9
DAK	3E1
DATA-P	2A4
DATA-0	2G1
DATA-1,DATA-2	2F1
DATA-3-DATA-5	2E1
DATA-6,DATA-7	2D1
DDSO,DDSI	1G7
DLS	4G1
DPE	1G10
DREQ	3G11
DSMH	4A4
DSML	4A4
DSO,DSI	1E1
DO-D2	4F1
D3-D5	4E1
D6-D9	4D1
D10-D12	4C1
D13-D15	4B1
EOT	1G5
ERM	1G7
ERR	1G9
ERROR0-ERROR7	.G3
ESCO	1D1
ESCI	1E1
FMK	1G10
FPT	1G4
HRIG	3A4
HSB1	1G6
HSB2	1G7
HTS	3B11
HWIG	3B1
IBEN	2C11
IDB	1G9
INIT2	3B11
LBV	3E1
MAB	4D11
MDH0,MDH1	2B11
MDH2,MDH3	2C11
MDH4-MDH7	2D11
MDL0-MDL3	2E11
MDL4-MDL6	2F11



NO.	REVISION	BY	DATE	DESIGNED	DATE	APPROVED	DATE
0	ORIGINATED PER DW/RE/12/2	308	7/9/81	D.S.	9/30/81	JEP	12/18/81
1	REVISOR PER ECO#2037,20312						
2	REVISOR PER ECO#2109						
3	REVISOR PER ECO#2151						
4	REVISOR PER ECO#2213						

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN-S.D.B.	7/9/81	E ENGR Z Rnd.	7/9/81
MODEL NO. V580/100		CHK 1/1/81	30-81	M ENGR	
FINISH		TITLE 1600/6250 BPI 1/2" CR MAG TAPE ADPT			
SCALE: 1:1 INT CO OF CO		210-7800 D		7800	4
		WANG PART NUMBER		SIZE	DRAWING NUMBER

34" 14 13 12 11 10 9 8 7 6 5 4 3 2 1 34"



Notes:  
1. CA 926 IC CHIP ONLY.  
2. DIMENSIONS IN PARENTHESES DENOTE  
100% DIMENSIONS SHOWN IN  
2ND, 4TH, 6TH AND 8TH SLOTS.

NOTES:  
1. CA 926 IC CHIP ONLY.  
2. DIMENSIONS IN PARENTHESES DENOTE  
100% DIMENSIONS SHOWN IN  
2ND, 4TH, 6TH AND 8TH SLOTS.

**(WANG)** INSTRUMENTS

DATE: 11/15/63

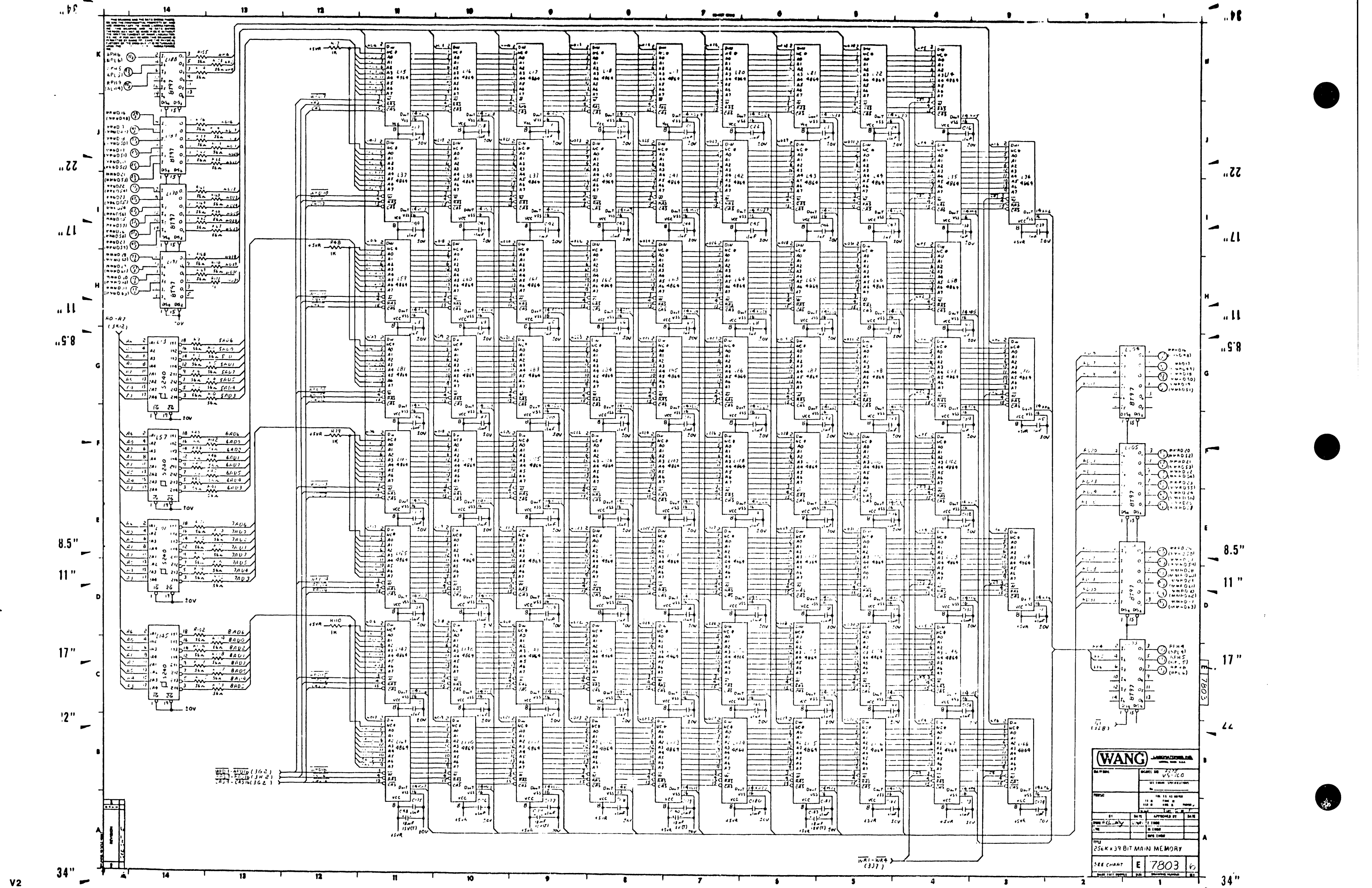
WORK CENTER: 7303

APPROVED BY: [Signature]

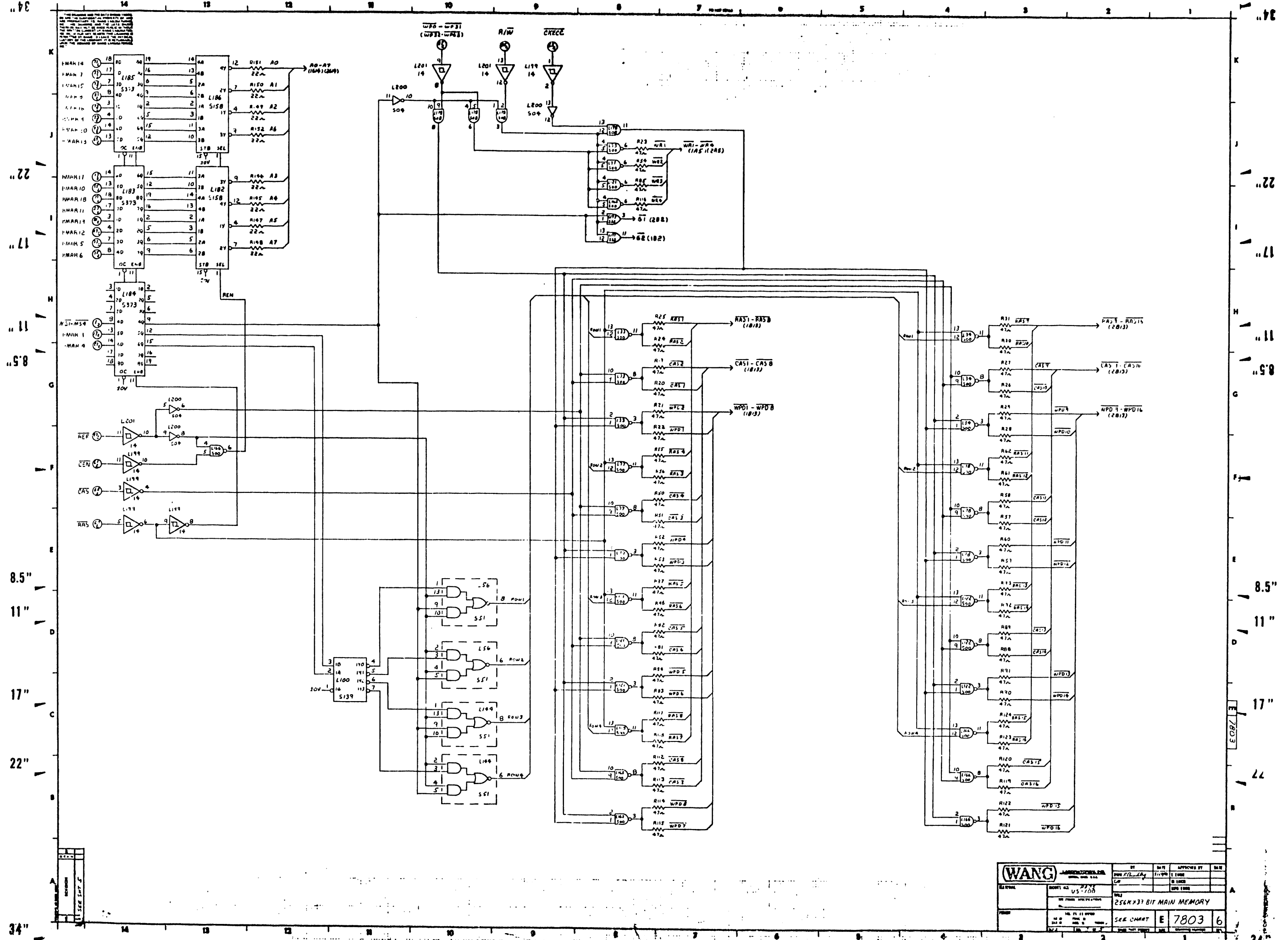
DATE: 11/15/63

SEE CHART E 7303 6

34" 14 13 12 11 10 9 8 7 6 5 4 3 2 1 34"



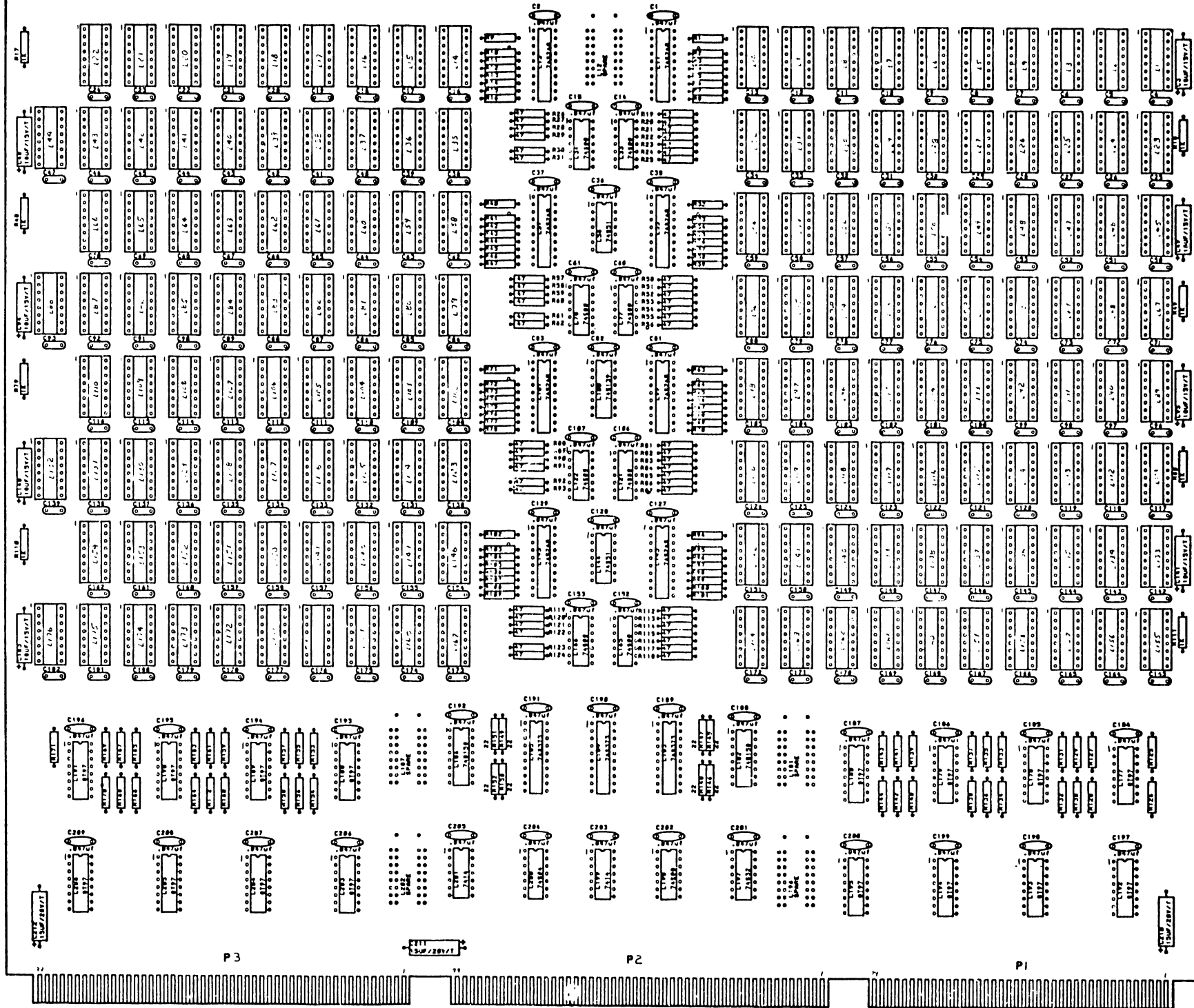
<b>WANG</b>		LARGE SCALE INTEGRATED CIRCUIT	
PART NO. 7803		REV. 10/70	
TITLE: 256K x 39 BIT MAIN MEMORY		SEE CHART E 7803	
DATE: 10/70	APPROVED BY:	DATE:	DATE:
DESIGNED BY:	DESIGNED BY:	DESIGNED BY:	DESIGNED BY:
DRN: 1000	DRN: 1000	DRN: 1000	DRN: 1000



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO.	VS-100	REV.	1/1/79	1/1/79
TITLE		256Kx32 BIT MAIN MEMORY		
DRAWN BY		CHKD BY	E 7803	6

7803- -RI

152 7803 FACEPLATE 1 PER  
150 2204 HOA 3/8 PAN W/ 1/4 SCREW 5 PER



1. All dimensions are in inches unless otherwise specified.  
2. All dimensions are to the center of the component unless otherwise specified.  
3. All dimensions are to the center of the hole unless otherwise specified.  
4. All dimensions are to the center of the component unless otherwise specified.  
5. All dimensions are to the center of the hole unless otherwise specified.  
6. All dimensions are to the center of the component unless otherwise specified.  
7. All dimensions are to the center of the hole unless otherwise specified.  
8. All dimensions are to the center of the component unless otherwise specified.  
9. All dimensions are to the center of the hole unless otherwise specified.  
10. All dimensions are to the center of the component unless otherwise specified.  
11. All dimensions are to the center of the hole unless otherwise specified.  
12. All dimensions are to the center of the component unless otherwise specified.  
13. All dimensions are to the center of the hole unless otherwise specified.  
14. All dimensions are to the center of the component unless otherwise specified.

<b>WANG</b>		BY	DATE	APPROVED BY	DATE
DESIGNER	WORK NO. 7803 VS-100	DESIGNED BY	DATE	DATE	DATE
TITLE	256K X 32 BIT MAIN MEMORY	DATE	DATE	DATE	DATE
FORM	SEE CHART	E	7803		



...  
 ...  
 ...  
 ...  
 ...  
 ...

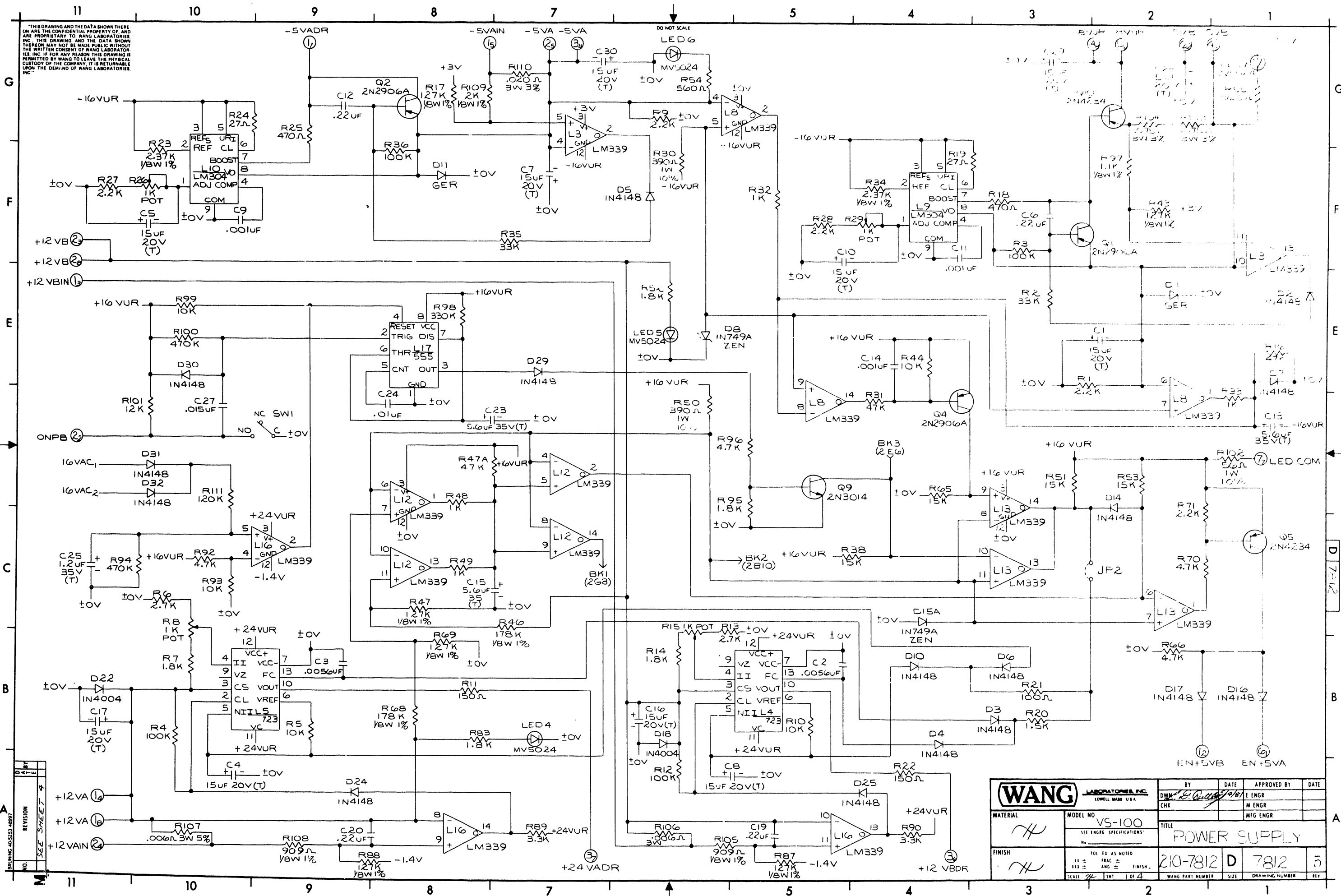
MEMORIC	COORD
BHAR1	3H19
BHAR2	3H19
BHAR3	3H19
BHAR4	3G19
RES	1F16
TEU	1R10
TYPE	1K9
A11-43	3H19
MM408	1J16
MM409	2J16
MM410	1W19
MM411	2J16
MM412	1G1
MM413	2G1
MM414	1G1
MM415	2G1
RES	2E19
REP	3F6
R/W	3K9
RPH1-RPH2	1C1
RPH3-RPH4	2C1
RPL1-RPL3	1C1
RPL4-RPL6	2C1
WPL1-WPL3	1K19
WPL4-WPL6	2K19
WPL1-WPL3	1K19
WPL4-WPL6	2K19

IC LOCATION	TYPE	VAL PART NO	
11-13, 4-32	4554	SEE CHART	
14-21, 59-79			
15-16, 25-31			
17-18, 145-149			
167-176			
111-18, 55-57		74500	376-0339
19-21, 43-45		SPARE	
1-2, 21-41			
1-6, 10-22			
1-33, 34-37			
75-102, 165-166	74510	376-0228	
167-176	74511	376-0184	
1-100	74513	376-0333	
1-17, 180-181	3797	376-0189	
185-203-204	74518	376-0301	
1182-186	74518	376-0301	
1183, 184-185	74518	376-0306	
1187	74532	376-0225	
1178	74538	376-0100	
1179-201	7454	376-0181	
1200	74504	376-0197	
11-10, 4-11, 31-34, 18-76, 77-78, 102-103, 13-14, 16-17, 106-107, 108-109	16711 JET	376-10-2	

TYPE	LOCATION	VALUES
74500	L11	1
	L79	1
	L125	1
74510	L120	2
74514	L117	3
74518	L117	2
74519	L100	1

REF ID	TYPE	VAL PART NO
A1-16, 37-43, 43-18, 24-107, 121-149, 151-171	25W 1/4W 5%	330-1087
A17, 18, 19, 41, 73, 80, 101, 111	1K 1/4W 5%	330-1011
A11, 31, 50-65, 81-73, 102-104	25W 1/4W 5%	330-1088
A15, 152	25W 1/4W 5%	330-1023
A11, 12-17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		
A11, 412-17, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		
C013-212	74504	300-4622

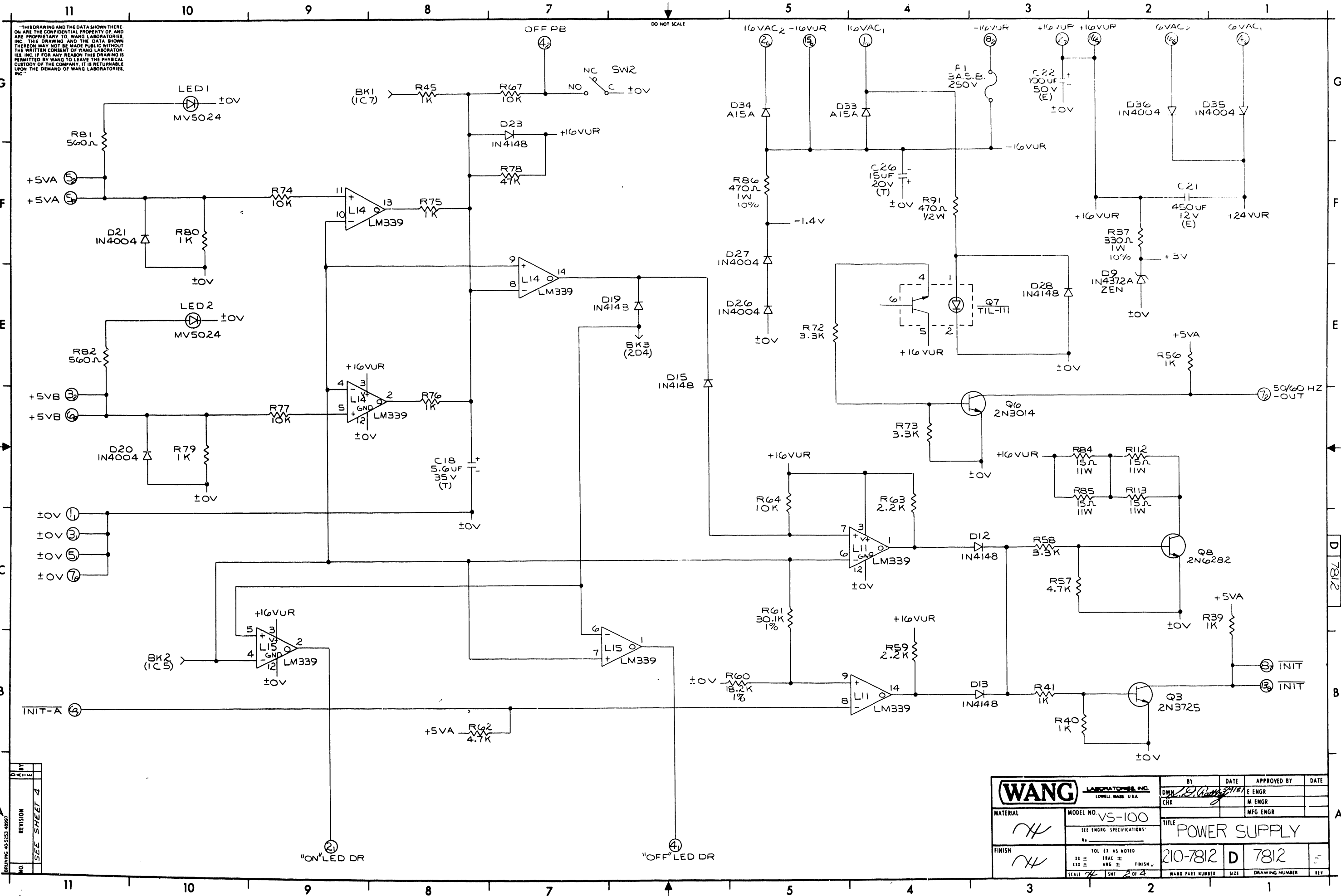
THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



NO.	REVISION

SEE SHEET 4

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWM	DATE 3/4/87	APPROVED BY E ENGR	DATE
MATERIAL 7	MODEL NO. VS-100 SEE ENGR'S SPECIFICATIONS	CHK		M ENGR	
FINISH 7	TITLE POWER SUPPLY			MFG ENGR	
SCALE 7		SHT 1 OF 4	WANG PART NUMBER	SIZE	DRAWING NUMBER
210-7812		D	7812	5	



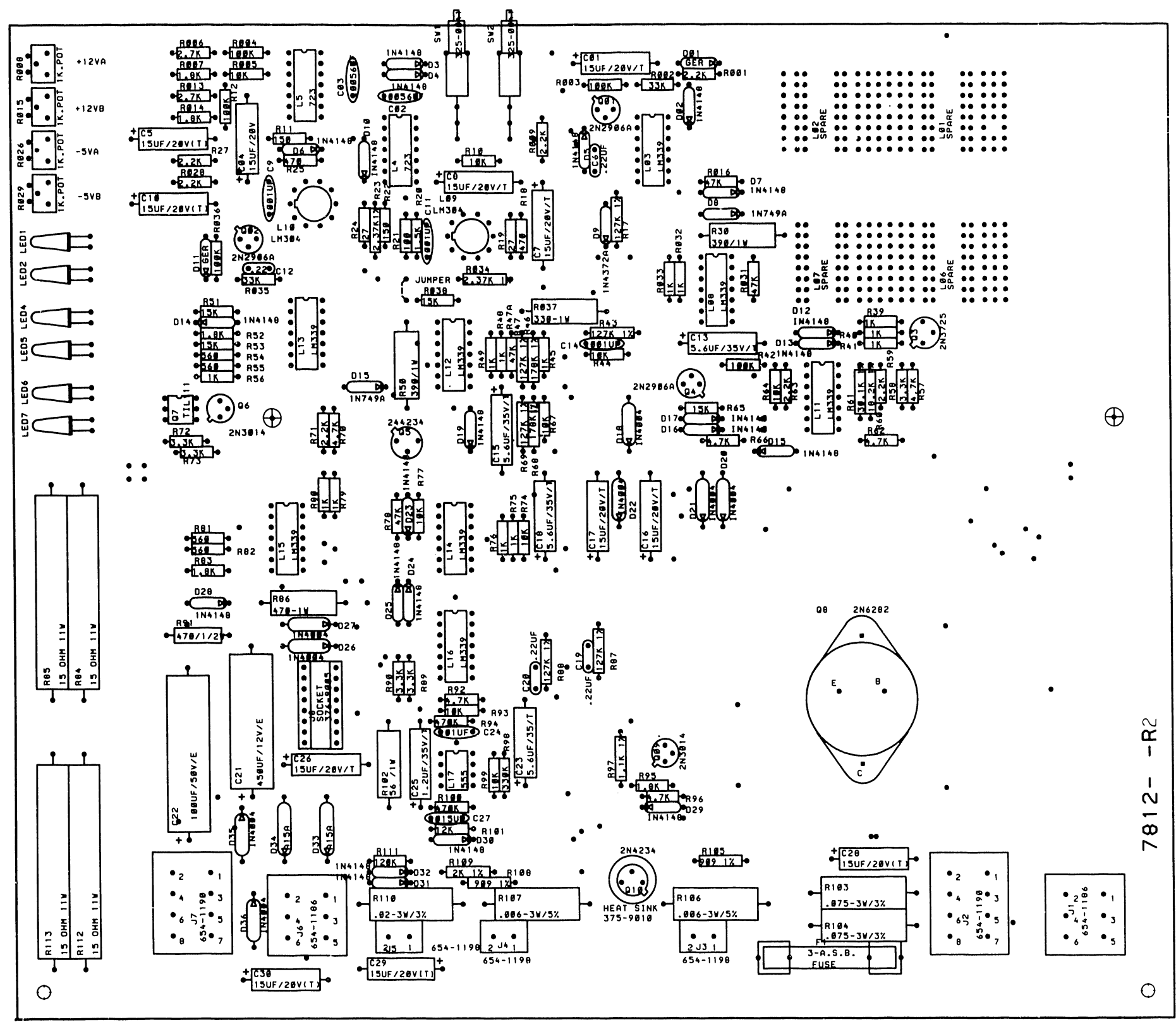
THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

NO	REVISION	BY
	SEE SHEET 4	

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 5/17/78	APPROVED BY E ENGR	DATE
MATERIAL 74	MODEL NO. VS-100 SEE ENGR'S SPECIFICATIONS	CHK		M ENGR	
FINISH 74	TOL EZ AS NOTED FRAC = ANG = FINISH = SCALE 74 SMT 2 OF 4	TITLE POWER SUPPLY		210-7812	D 7812
WANG PART NUMBER		SIZE	DRAWING NUMBER	REV	

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE



NO.	REVISION
	SEE SHEET 4

<b>WANG</b> LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 1/19/67	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO VS-100	CHK		M ENGR	
SEE ENGRG. SPECIFICATIONS		TITLE POWER SUPPLY			
FINISH	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	QTY 210-7812	SIZE D	DRAWING NUMBER 7812	REV 5
SCALE SHT 3 OF 4		WANG PART NUMBER			

THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

COMPONENT	TYPE	W.L. PART NO.
R1,9,27,28,59,63,71	2.2K 1/4W 5%	330-3023
R2,35	33K 1/4W 5%	330-4034
R3,4,12,36	100K 1/4W 5%	330-5011
R5,10,44,64,77,74,77,93,99	10K 1/4W 5%	330-4011
R6,13	2.7K 1/4W 5%	330-3028
R7,14,52,83,95	1.8K 1/4W 5%	330-3019
R8,15,26,29	1K POT	336-1014
R11,22	150Ω 1/4W 5%	330-2016
R16,31,47,78	47K 1/4W 5%	330-4048
R17,43,47,69,87,88	127K 1/8W 1%	333-0091
R18,25	470Ω 1/4W 5%	330-2048
R19,24	27Ω 1/4W 5%	330-1028
R20	1.5K 1/4W 5%	330-3016
R21	100Ω 1/4W 5%	330-2011
R23,34	2.37K 1/8W 1%	333-0093
R30,50	390Ω 1/10W 2%	332-2039
R32,33,39-41,45,48,49,50,75,76,79,80	1K 1/4W 5%	330-3011
R37	330Ω 1/10W 2%	332-2033
R38,51,53,65	15K 1/4W 5%	330-4016
R46,68	178K 1/8W 1%	333-0066
R54,55,81,82	560Ω 1/4W 5%	330-2057
R57,62,66,70,92,96	4.7K 1/4W 5%	330-3048
R58,72,73,89,90	3.3K 1/4W 5%	330-3034
R60	18.2K 1/8W 1%	333-0108
R61	30.1K 1/8W 1%	333-0063
R84,85,112,113	15Ω 11W	334-0002
R86	470Ω 1/10W 2%	332-2047
R91	470Ω 1/2W 10%	331-2047
R94,100	470K 1/4W 5%	330-5048
R97	1.1K 1/8W 1%	333-0118
R98	330K 1/4W 5%	330-5034
R101	12K 1/4W 5%	330-4013
R102	56Ω 1/10W 2%	332-1056
R103,104	.075Ω 3W 3%	334-0035
R105,108	90Ω 1/8W 1%	333-0059
R106,107	.006Ω 3W 5%	334-0031
R109	2K 1/8W 1%	333-0111
R110	.020Ω 3W 3%	334-0032
R111	120K 1/4W 5%	330-5013
C1,4,5,7,8,10,16,17,29,28-30	15 UF 20V(T)	300-4022
C2,3	.005 UF 500V	300-1915
C6,12,19,20	.22 UF	300-1902
C9,11,14	.001 UF 500V	300-1906
C13,15,18,23	5.6 UF 35V(T)	300-4017
C21	450 UF 12V(E)	300-3043
C22	100 UF 50V(E)	300-3052
C24	.01 UF 25V	300-1903
C25	1.2 UF 35V(T)	300-4013
C27	.015 UF	300-1928

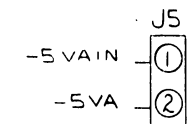
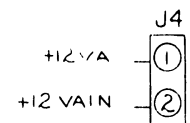
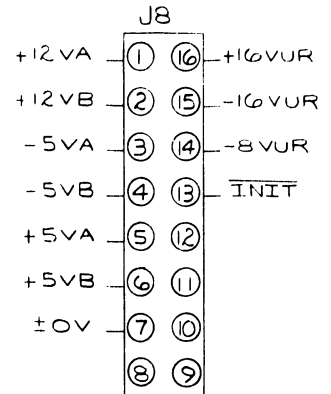
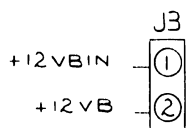
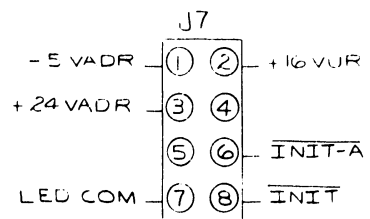
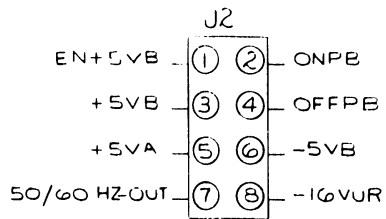
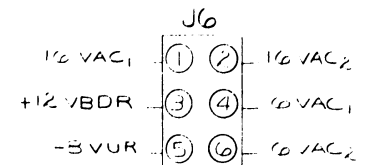
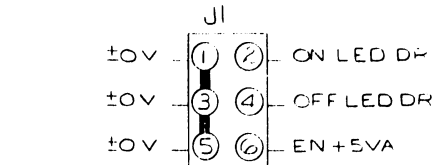
COMPONENT	TYPE	W.L. PART NO.
D1,11	GER	380-0000R
D2-7,10,12-17,19,23-25,28-32	1N4148	380-1014
D8,15A	1N749A ZEN	380-2042
D9	1N4372A ZEN	380-2129
D18,20-22,26,27,35,36	1N4004	380-4000
D33,34	A15A	380-3008
Q1,2,4	2N2906A	375-1017
Q3	2N3725	375-1027
Q5,10	2N4234	375-1024
Q6,9	2N3014	375-0017
Q7	T1L-111	375-2109
Q8	2N6282	375-1046

COMPONENT	TYPE	W.L. PART NO.
LED1,2,4-7	MV5024	370-0026
F1	3A.S.B. 250V	360-1031
SW1,2	SPDT PUSH	325-0041
J1,6	6POS HEADER	654-1186
J2,7	8POS HEADER	654-1190
J3,4,5	2POS HEADER	654-1198
J8	16PIN SOCKET	376-9005

I.C. LOCATION	TYPE	W.L. PART NO.
L1,2,6,7	SPARE	
L3,8,11-16	LM339	376-0240
L4,5	LM723	376-0066
L9,10	LM304	376-0134
L17	555	376-0126

TYPE	I.C. LOCATION	SPARE
LM339	L3	1
	L8	1
	L11	2
	L13	1
	L14	1
	L15	2
L16	1	

MNEMONICS	COORD
EN+5VA	1B1
EN+5VB	1B2
INIT	2B1
INIT-A	2B1
LED COM	1D1
OFF LED DR	2A6
OFFPB	2G7
ON LED DR	2A9
ONPB	1D11
±OV	2C11
-5VA	1G7
+5VB	2D11
-5VADR	1G9
-5VA IN	1G8
-5VB	1G2
+5VB	2F11
50/60 HZ-OUT	2D1
6 VAC <sub>1</sub>	2G1
6 VAC <sub>2</sub>	2G2
-8VUR	1G2
+12VB	1F11
+12VA	1A11
+12VA IN	1A11
+12VBDR	1A4
+12VB IN	1E11
16 VAC <sub>1</sub>	2G4
16 VAC <sub>2</sub>	2G5
-16VUR	2G5
+16VUR	2G3
-16VUR	2G3
+24VADR	1A7



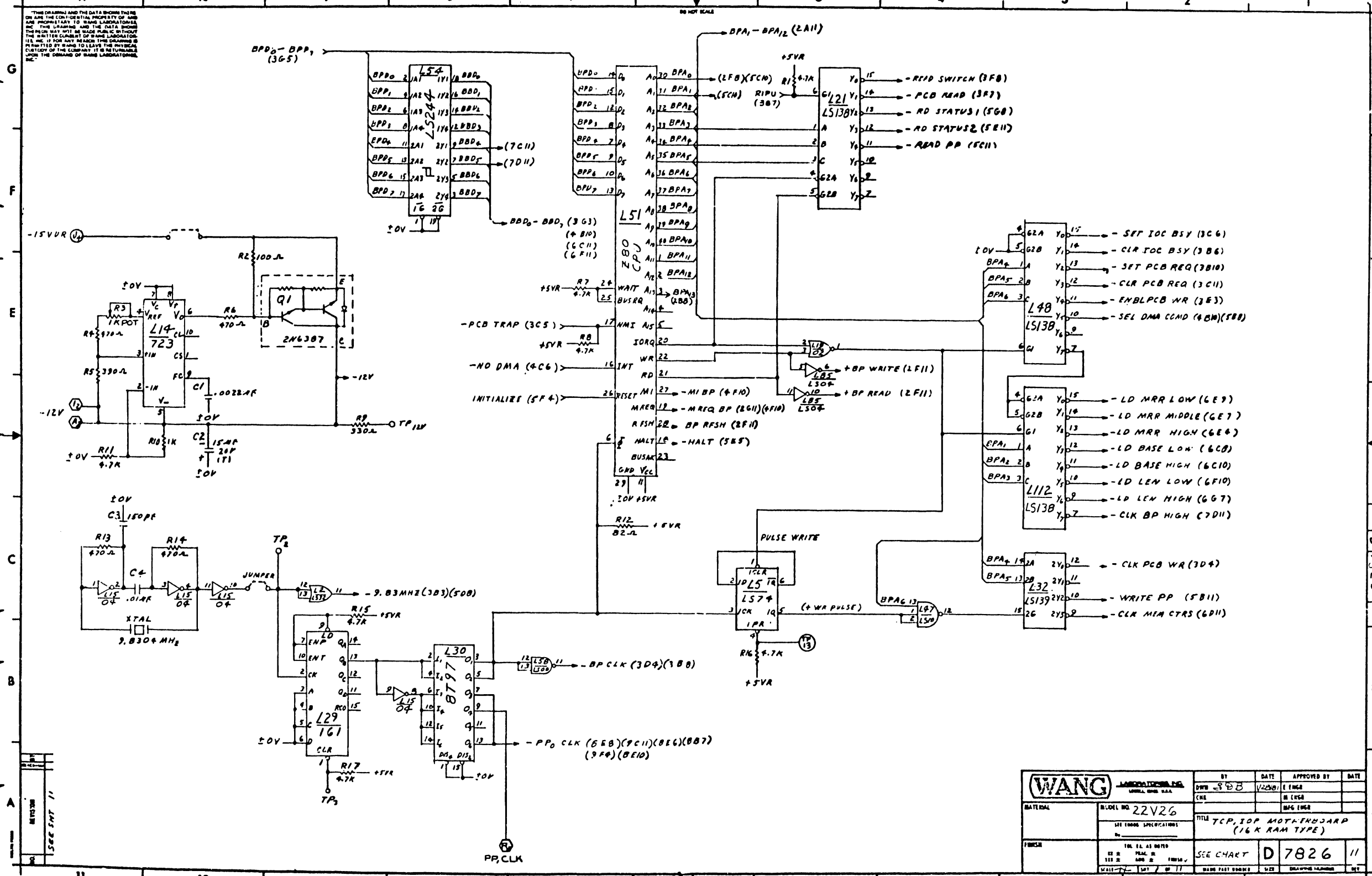
NOTE: ALL RES. ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

E-REV  
0

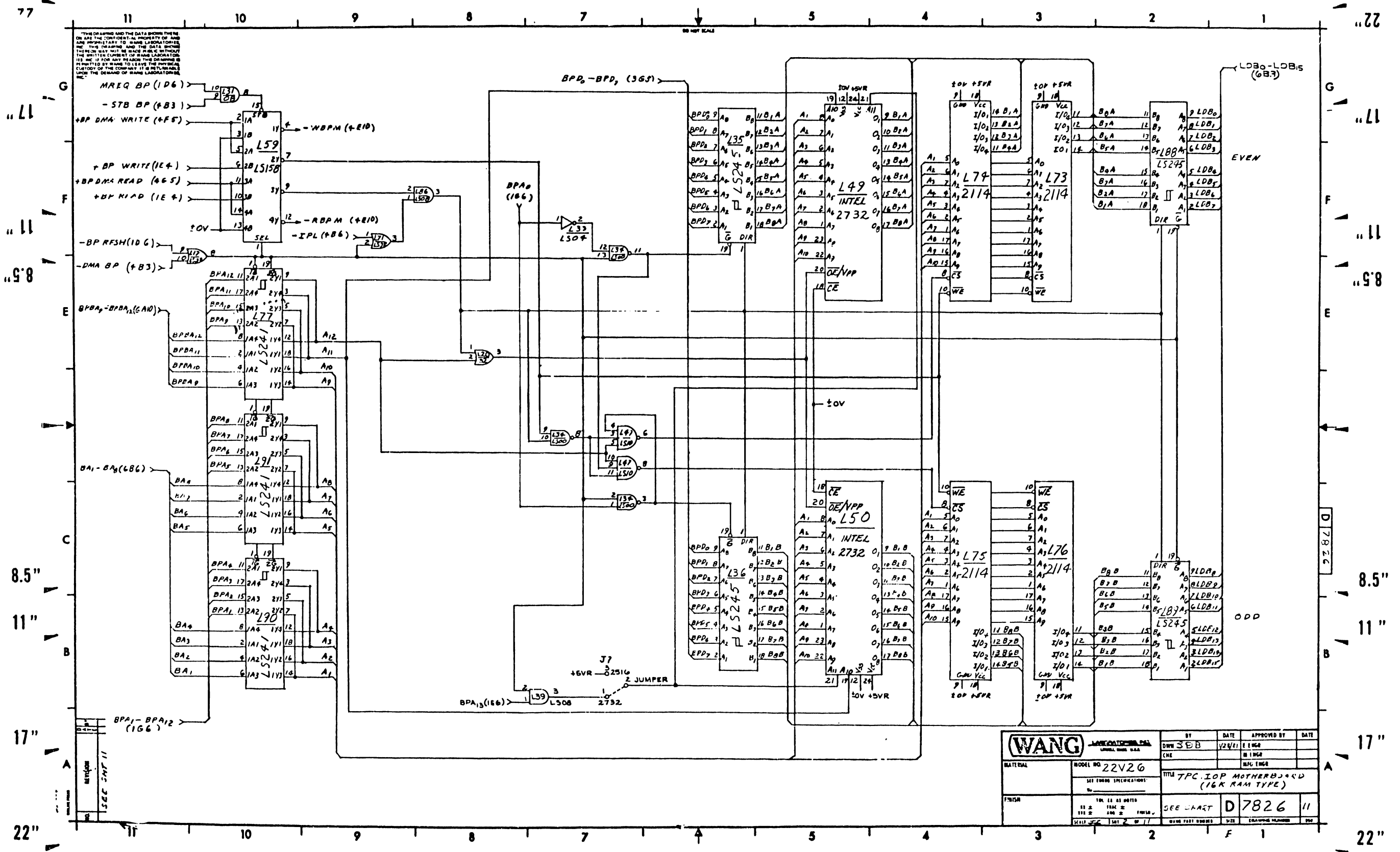
NO	REVISION	DATE	BY	CHK	APP'D
0	ORIGINATED PER	5/4/87	528		
1	DESIGN	5/28/87	528		
2	REVISED PER	7-9-87			
3	REVISED PER				
4	REVISED PER				
5	REVISED PER				

	BY	DATE	APPROVED BY	DATE
	DRW: <i>[Signature]</i> CHK: <i>[Signature]</i>		E ENGR	M ENGR
MATERIAL	MODEL NO.	TITLE		
<i>[Signature]</i>	VS-100	POWER SUPPLY		
FINISH	TOL EX AS NOTED	SCALE	SIZE	REV
<i>[Signature]</i>	XX = FRAC ± XXX = ANG ± FINISH	210-7812	D 7812	5
SCALE 1/16"		WANG PART NUMBER		REV
SHT 4 OF 4		7812		5

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. AND WILL BE KEPT SECRET BY THE RECIPIENT AND THE DATA SHOWN THEREON MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, THE RECIPIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CONFIDENTIALITY OF THE DATA SHOWN THEREON AND FOR THE RETURN OF THE ORIGINAL DRAWING TO WANG LABORATORIES, INC. UPON THE DEMAND OF WANG LABORATORIES, INC.



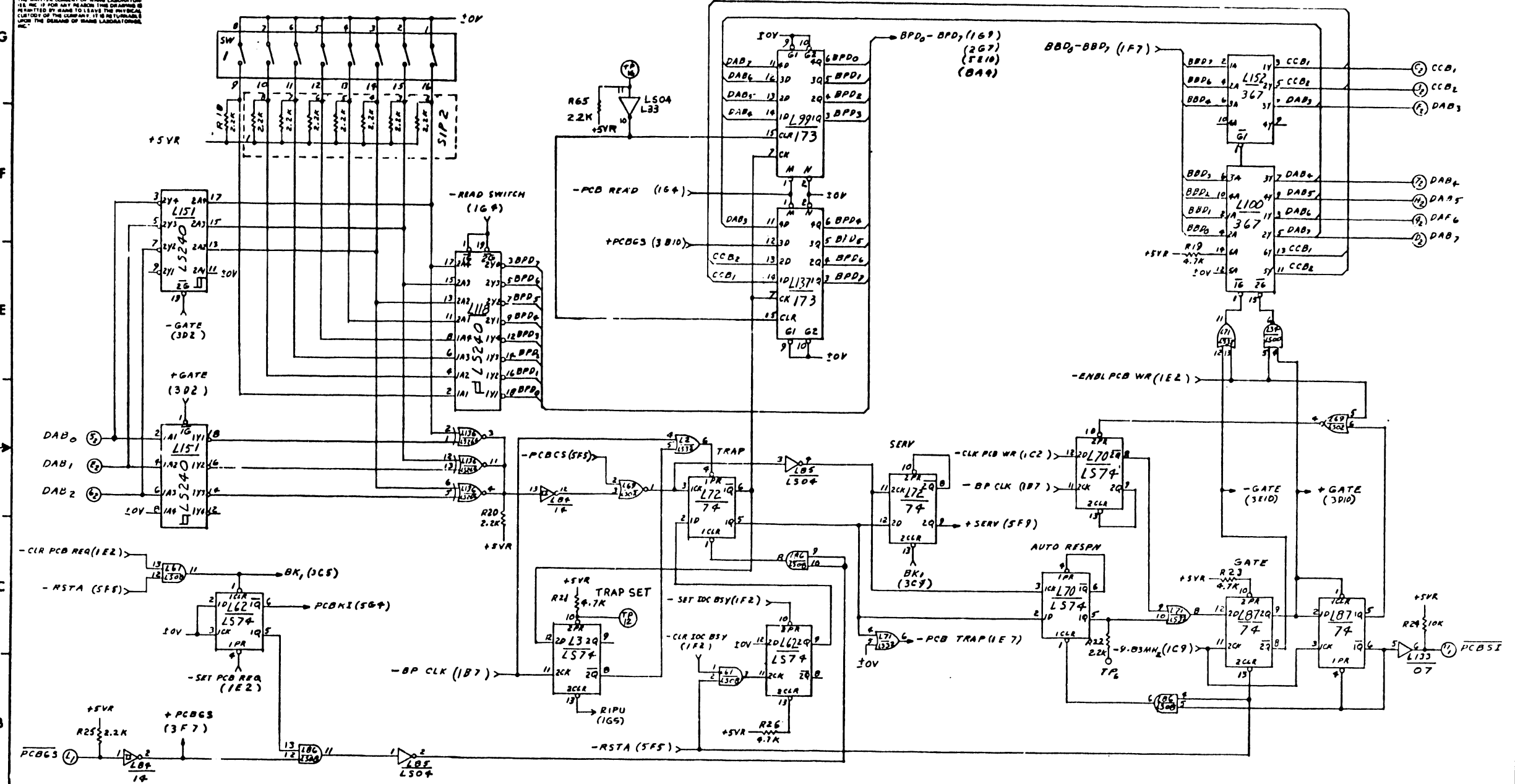
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. 22V26		DWB	3/88	E INGR	
SERIAL NO. 1113		CHK		M INGR	
TITLE		TCP, IOP MOTORBOARD (16K RAM TYPE)			
DRAWN		SEE CHART			
CHECKED		D 7826		11	



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. 22V26		DWR	SEB	12/91
SERIAL NO.		CHE	INGR	
TITL TPC IOP MOTHERBOARD (16K RAM TYPE)		MFG ENGR		
REV 1.1		SEE CHART	D7826	11

THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THE DRAWING AND THE DATA SHOWN HEREIN MAY NOT BE REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. THE DRAWING OF WANG LABORATORIES, INC.

DO NOT SCALE



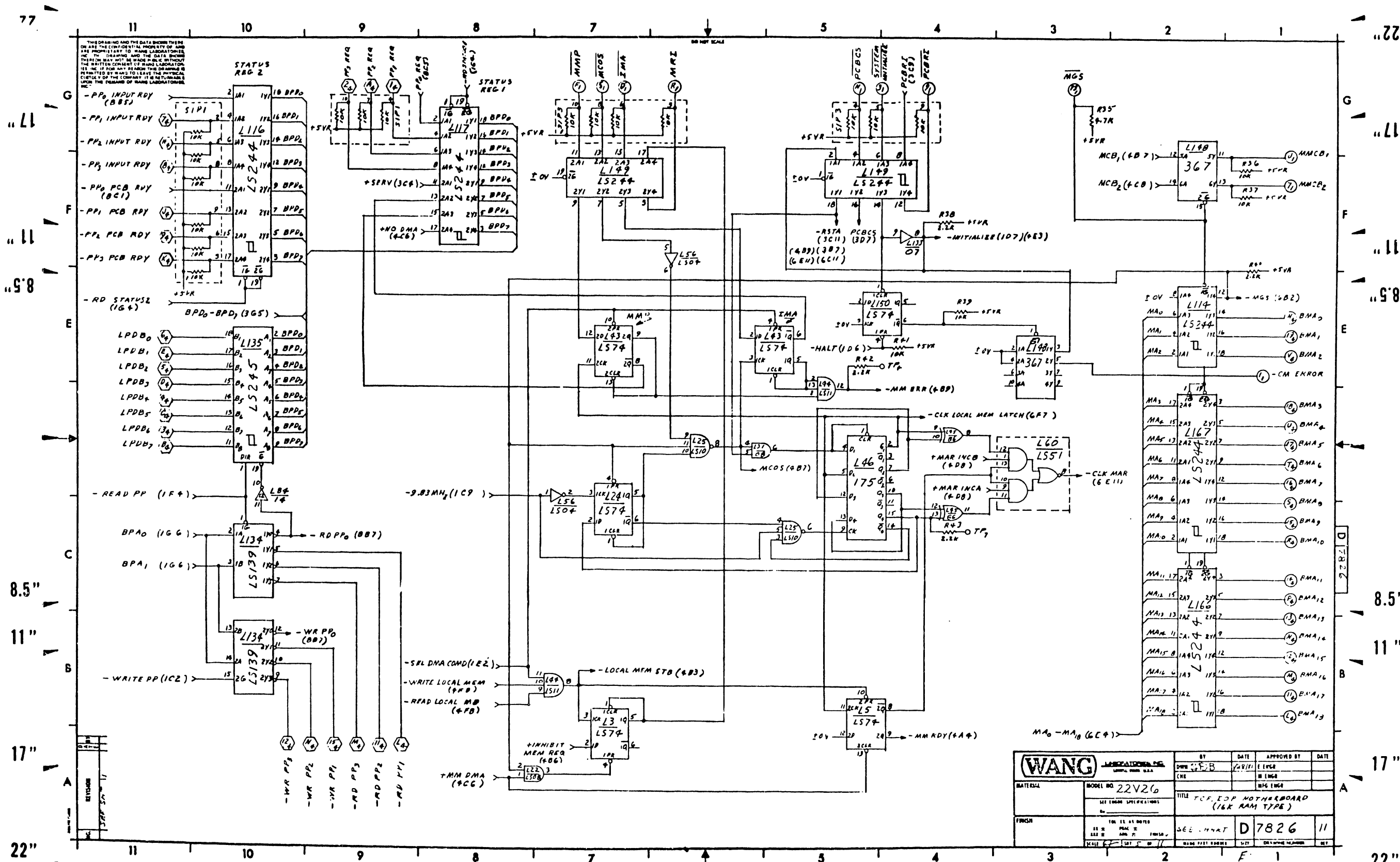
77  
11  
9.8  
8.5  
11  
17  
22

22  
11  
9.8  
8.5  
11  
17  
22

<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. <b>22V26</b>		DWR J EYD	1/22/68	E INGR	
SEE DRAWING SPECIFICATIONS		CHE		B INGR	
TITLE <b>TCP, IOP, MOTHERBOARD (16K RAM TYPE)</b>				MFG ENGR	
DRAWING NO. <b>D 7826 11</b>		SEE CHART			
SCALE 1" = 1"		DRAWING NUMBER			



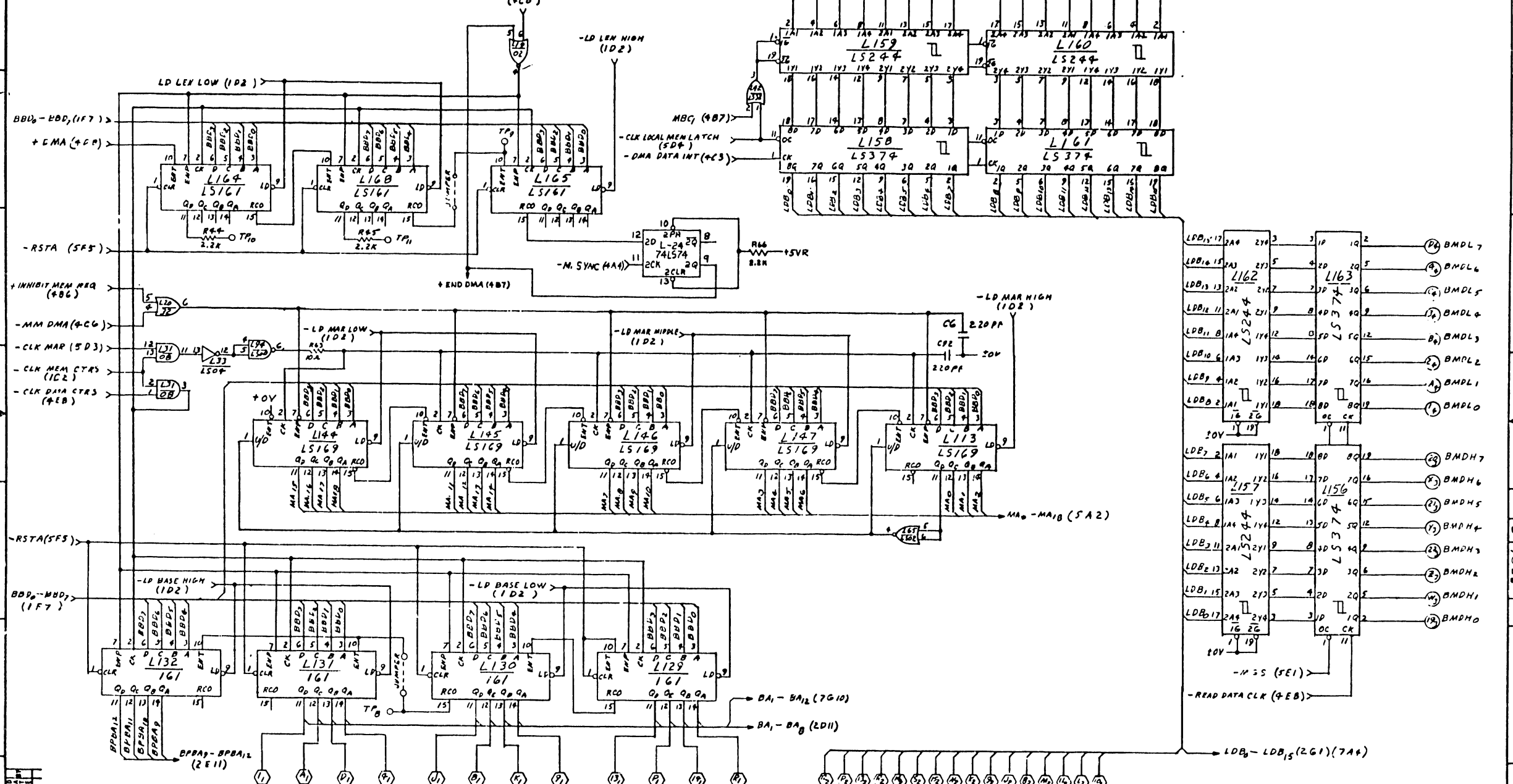




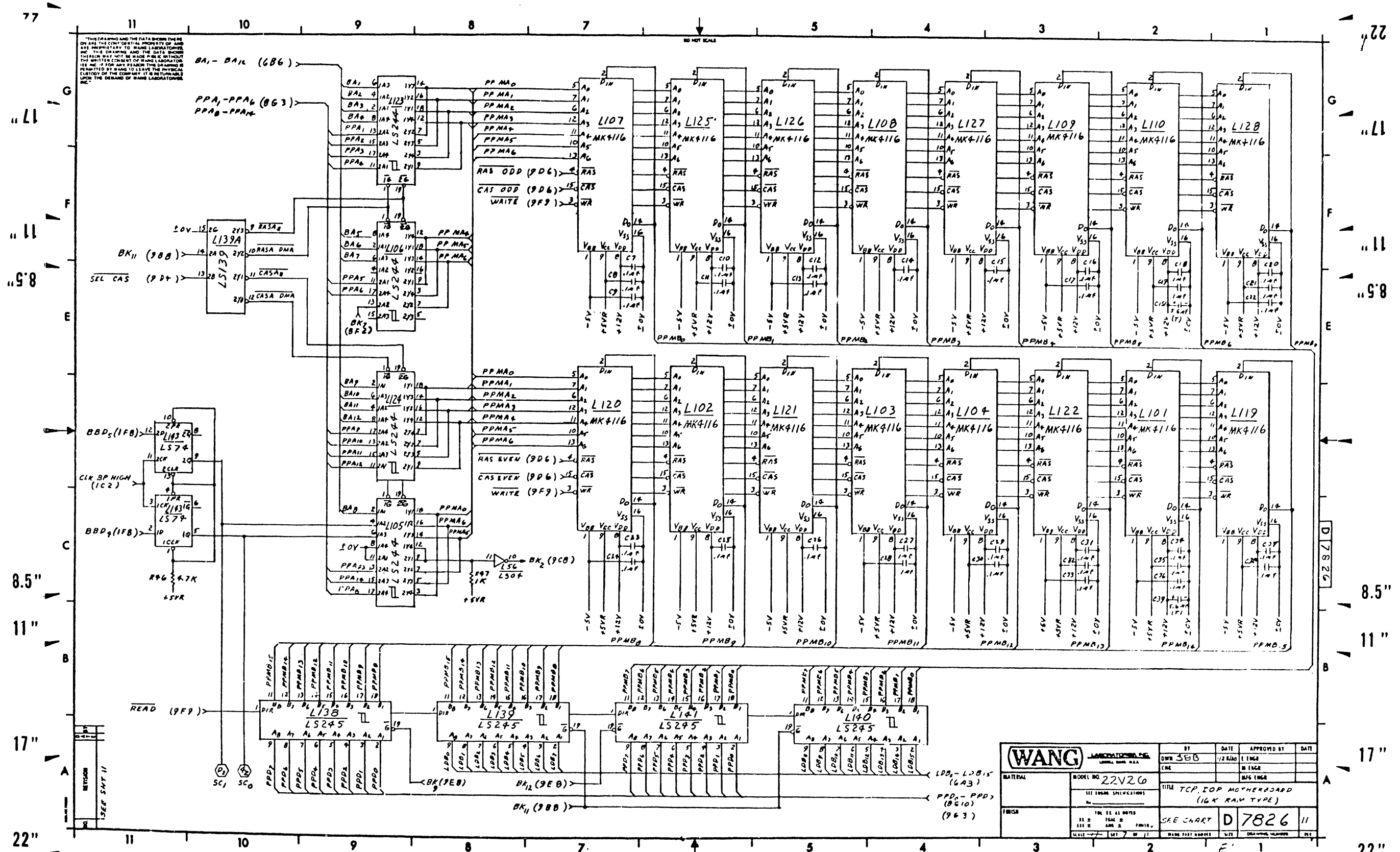
THIS DRAWING AND THE DATA HEREON THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND ARE LOANED TO YOU BY WANG LABORATORIES, INC. THE DRAWING AND THE DATA HEREON ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC.

<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. 22V26		DRW	5/28/71	LEUNG	
TITLE		CHK		WONG	
16K RAM MOTHERBOARD		BPG ENG			
REV. 11		D 7826			
REV. 2		11			

THIS DRAWING AND THE DATA THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. IF YOU HAVE REASON TO BELIEVE THAT THIS DRAWING OR INFORMATION CONTAINED HEREIN IS NOT THE PROPERTY OF WANG LABORATORIES, INC., YOU SHOULD REPORT THE MATTER TO THE DEMAND OF WANG LABORATORIES, INC.



<b>WANG</b> LABORATORIES, INC. 700 WASHINGTON ST., BOSTON, MASS. 02111		BY DWH	DATE 11/11/76	APPROVED BY E LINGG	DATE
MATERIAL	MODEL NO. 22V26	CHK CHE		DATE 11/11/76	
TITLE TCP IOP MOTHERBOARD (16K RAM TYPE)		DATE 11/11/76			
FURNISH		SEE SHEET	D 78 26	11	

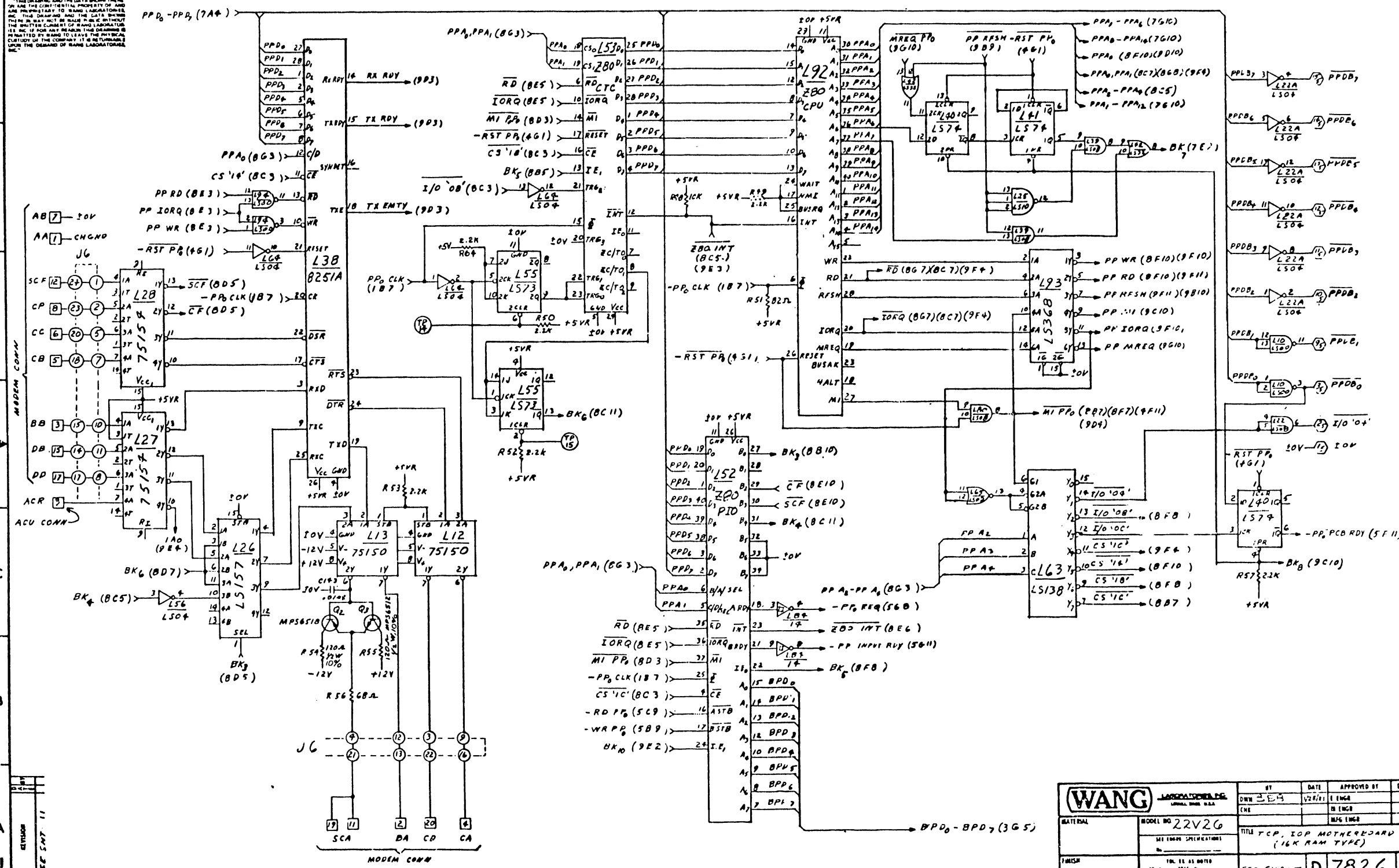


THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND PROPRIETARY TO WANG LABORATORIES, INC. THE DESIGN AND THE DATA THEREON MAY NOT BE MADE PUBLIC IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THE DRAWING IS REPRODUCED OR COPIED, THE PHYSICAL CLERKSHIP OF THE COMPANY IS NOT RESPONSIBLE UNDER THE DEMAND OF WANG LABORATORIES, INC.

<b>WANG</b> LABORATORIES, INC. COMMERCIAL DIVISION		BY	DATE	APPROVED BY	DATE
		DWR	12/20/66	E. ENGR.	
MATERIAL	MODEL NO. 22V26	CHK		IN ENGR.	
	SIC ENGINE SPECIFICATIONS			ENGR.	
TITLE TCP, IOP MOTHERBOARD (16K RAM TYPE)		SEE CHART	D 7826	11	
FINISH		SCALE	1/8" = 1"	DATE	

77 11 10 9 8 7 5 4 3 2 1 22

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THE DRAWING AND THE DATA SHOWN THEREON MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, THE PHYSICAL CUSTODY OF THE COMPANY IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

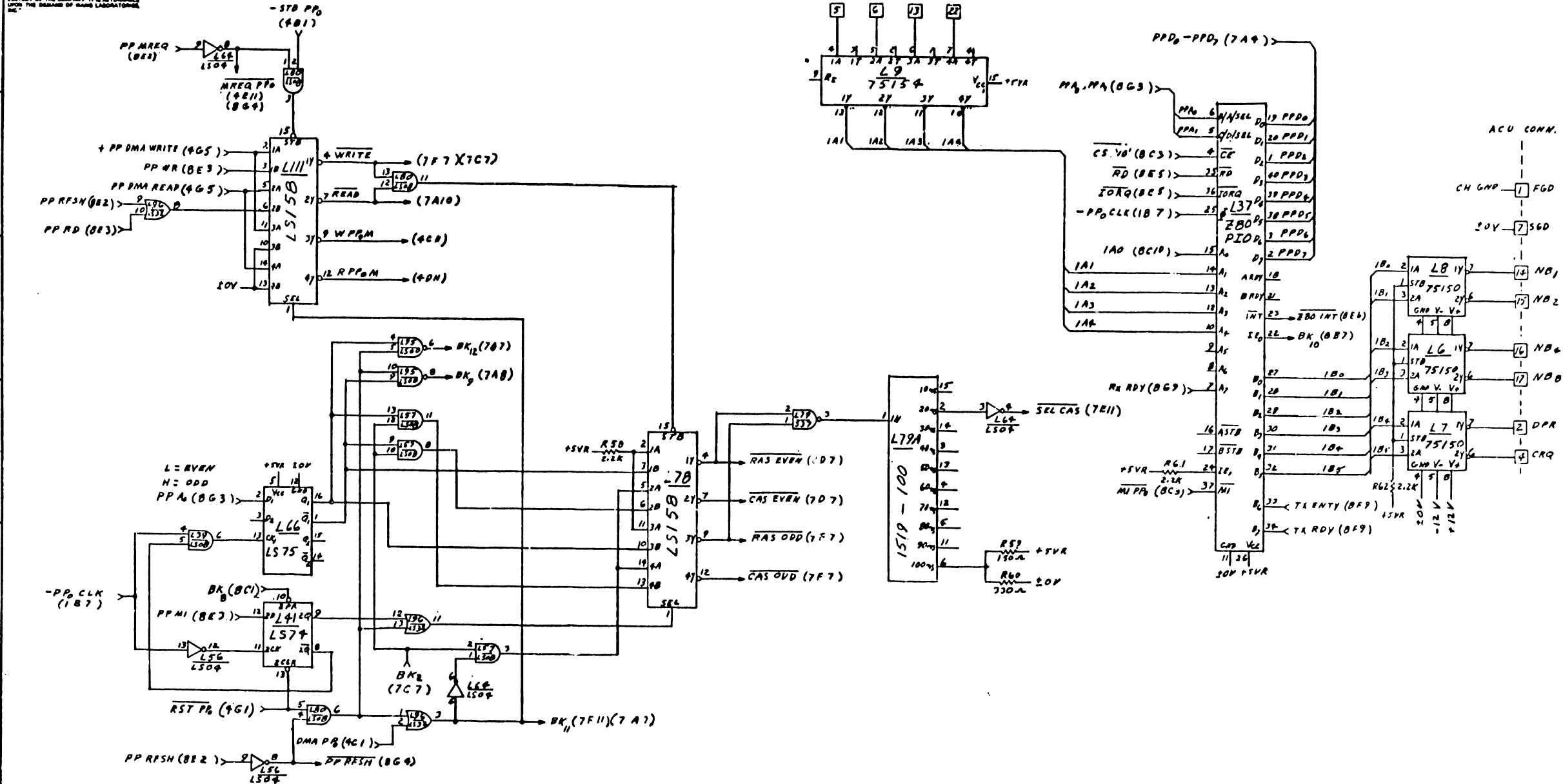


11 10 9 8 7 5 4 3 2 1 22  
 G  
 F  
 E  
 C  
 B  
 A  
 8.5"  
 11"  
 17"  
 22"

11 10 9 8 7 5 4 3 2 1 22  
 G  
 F  
 E  
 D  
 C  
 B  
 A  
 8.5"  
 11"  
 17"  
 22"

<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. 22V26		OWN	2/26/71	ENGINEER	
SERIAL NO. 1000000000		CHE		ENGINEER	
TITLE IOP MOTHERBOARD (16K RAM TYPE)		CHK		ENGINEER	
DRAWN BY		DATE	DATE	DRAWING NUMBER	REV
D 7826					

THIS DRAWING AND THE DATA SCHEMATIC THEREON ARE THE CONFIDENTIAL PROPERTY OF AND THE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SCHEMATIC THEREON MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THE DRAWING IS REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF THE COMPANY, IT IS THE PROPERTY OF THE COMPANY AND WILL BE FURNISHED TO THE OWNER OF SAID INFORMATION, WITHOUT ANY OBLIGATION TO THE COMPANY.



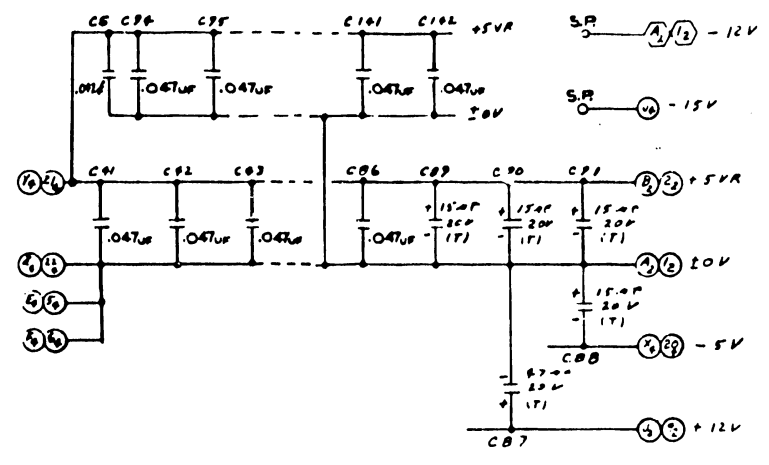
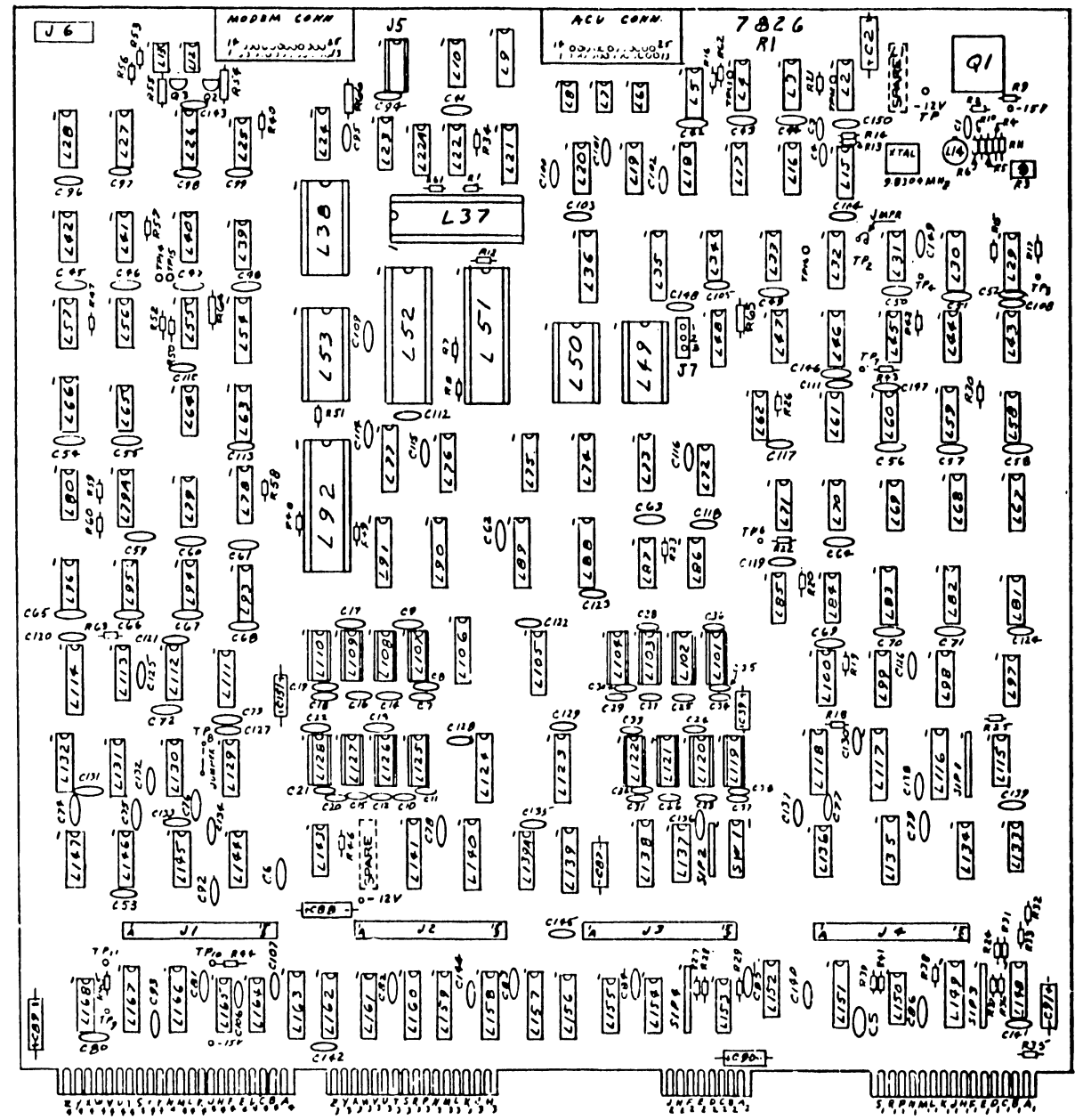
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO 22V26		DWE	2/23/71	ENG	
SERIAL NUMBER		CNE		ENG	
TITLE				ENG	
CPU I/O MOTHERBOARD (RAM TYPE)					
REV					
REV 1					
REV 2					
REV 3					
REV 4					
REV 5					
REV 6					
REV 7					
REV 8					
REV 9					
REV 10					
REV 11					
REV 12					
REV 13					
REV 14					
REV 15					
REV 16					
REV 17					
REV 18					
REV 19					
REV 20					
REV 21					
REV 22					
REV 23					
REV 24					
REV 25					
REV 26					
REV 27					
REV 28					
REV 29					
REV 30					
REV 31					
REV 32					
REV 33					
REV 34					
REV 35					
REV 36					
REV 37					
REV 38					
REV 39					
REV 40					
REV 41					
REV 42					
REV 43					
REV 44					
REV 45					
REV 46					
REV 47					
REV 48					
REV 49					
REV 50					

77  
"LL  
"LL  
"S8  
E  
C  
8.5"  
11"  
B  
17"  
A  
22"

"22  
"LL  
"LL  
"S8  
E  
8.5"  
11"  
B  
17"  
A  
22"

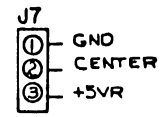
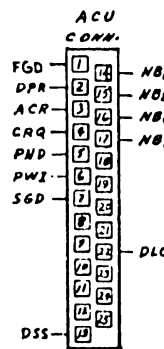
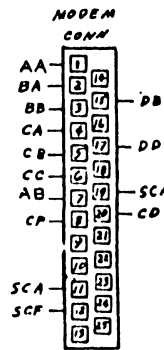
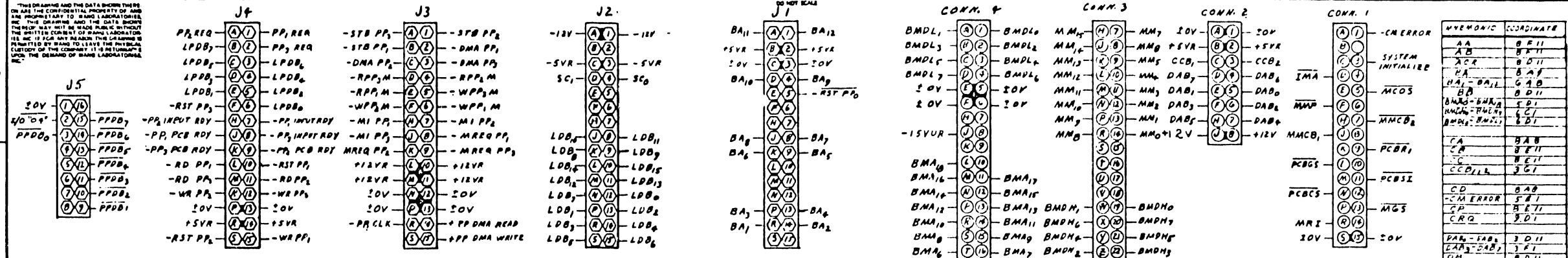
THIS DRAWING AND THE DATA HEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT IN CONFIDENTIALITY. NO PART OF THIS DRAWING OR THE DATA HEREON IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

5960-44E	7-1960-44E	5960-44E	9490-44E	7906-84E	7106-84E	9106-84E	5100-44E	9430-44E	7-9-60	9-28
5960-44E	7-1960-44E	5960-44E	9490-44E	7906-84E	7106-84E	9106-84E	5100-44E	9430-44E	7-9-60	9-28
5960-44E	7-1960-44E	5960-44E	9490-44E	7906-84E	7106-84E	9106-84E	5100-44E	9430-44E	7-9-60	9-28
5960-44E	7-1960-44E	5960-44E	9490-44E	7906-84E	7106-84E	9106-84E	5100-44E	9430-44E	7-9-60	9-28
5960-44E	7-1960-44E	5960-44E	9490-44E	7906-84E	7106-84E	9106-84E	5100-44E	9430-44E	7-9-60	9-28



<b>WANG</b> LABORATORIES, INC. UNIVERSITY MICROFILMS		BY DWB 3EB	DATE 11/11/60	APPROVED BY E ENG	DATE 11/11/60
MATERIAL		TITLE 7026 IOP MOTHERBOARD (16K RAM TYPE)			
PARTS		SEC: LHM-T D 7826			
NO. OF PARTS 100		REV. NO. 1			
DATE 11/11/60		DRAWN BY DWB			

THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND ARE LOANED TO YOU BY WANG CORPORATION. THE INFORMATION IS NOT TO BE DISCLOSED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN CONSENT OF WANG CORPORATION. IF YOU ARE A CONTRACTOR OR SERVICE PROVIDER FOR WANG CORPORATION, YOU WILL BE BOUND BY THE TERMS AND CONDITIONS OF YOUR CONTRACT AND/OR SERVICE AGREEMENT WITH WANG CORPORATION. THE COMPANY WILL BE RESPONSIBLE FOR THE PROTECTION AND SECURITY OF THIS INFORMATION.



SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONN.

Table with columns MEMORIC and COORDINATE listing various components and their locations.

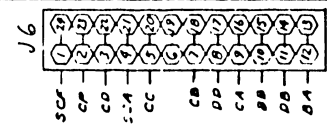
Table with columns LOCATION, I.C. TYPE, and SPARE listing specific components.

Table with columns COMPONENT, W.L. PART NO, and TYPE listing various electronic components.

Table with columns LOCATION, W.L. PART NO, I.C. TYPE listing components and their specifications.

Table with columns LOCATION, W.L. PART NO, I.C. TYPE listing components and their specifications.

LOADING CHART ON PAGE 10.

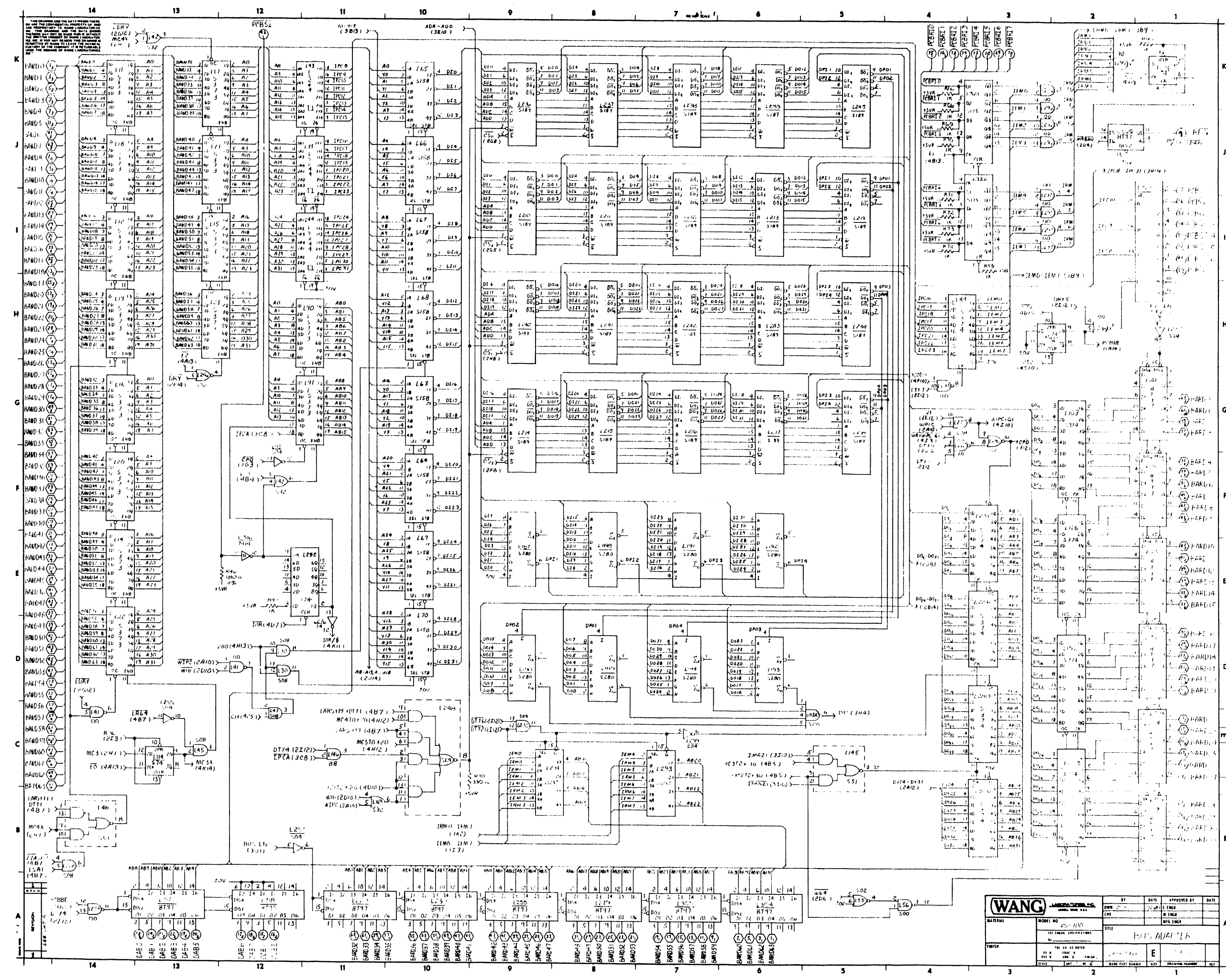


NOTE: ALL RES. ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

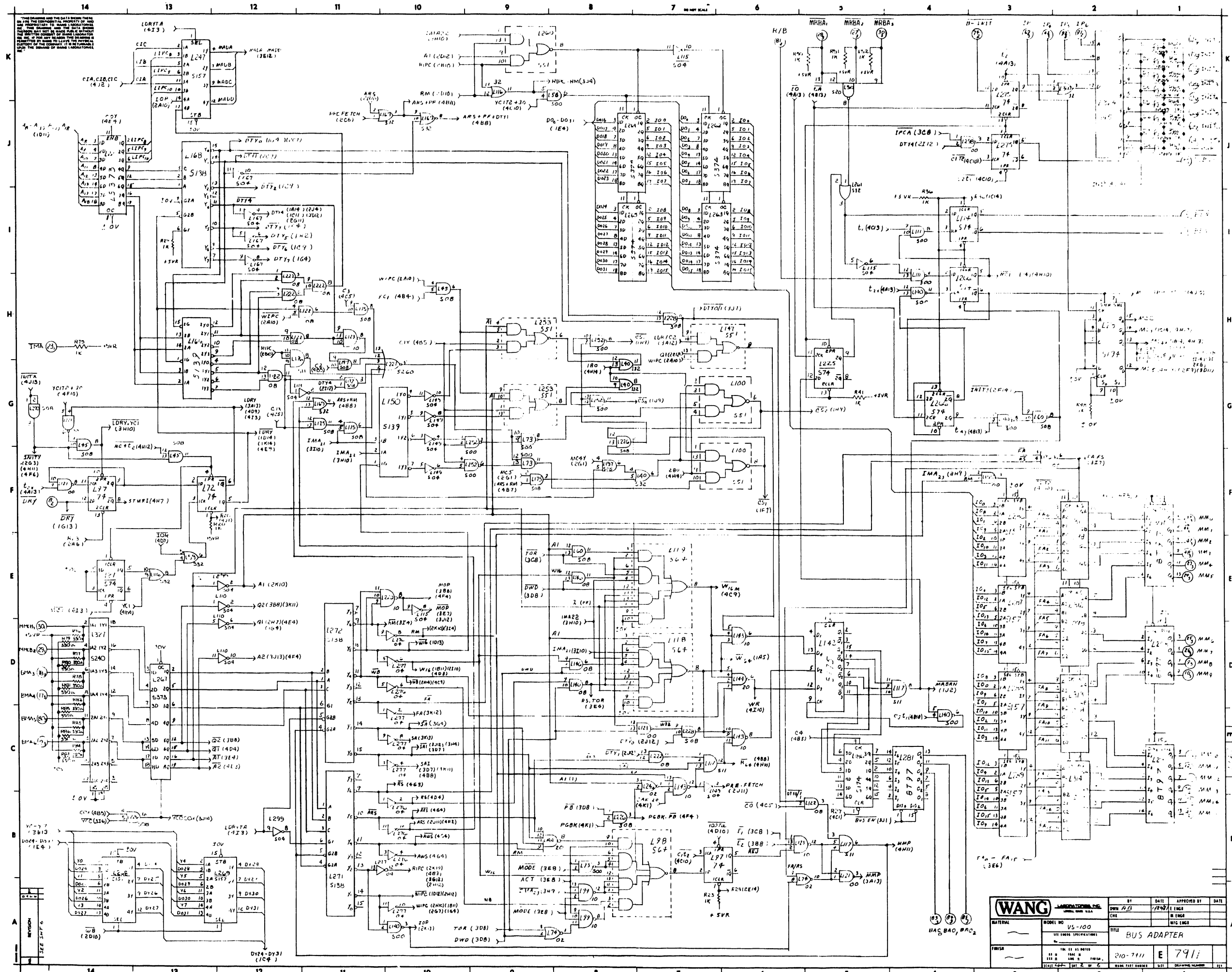
REVISION table with columns for revision number, date, and description of changes.

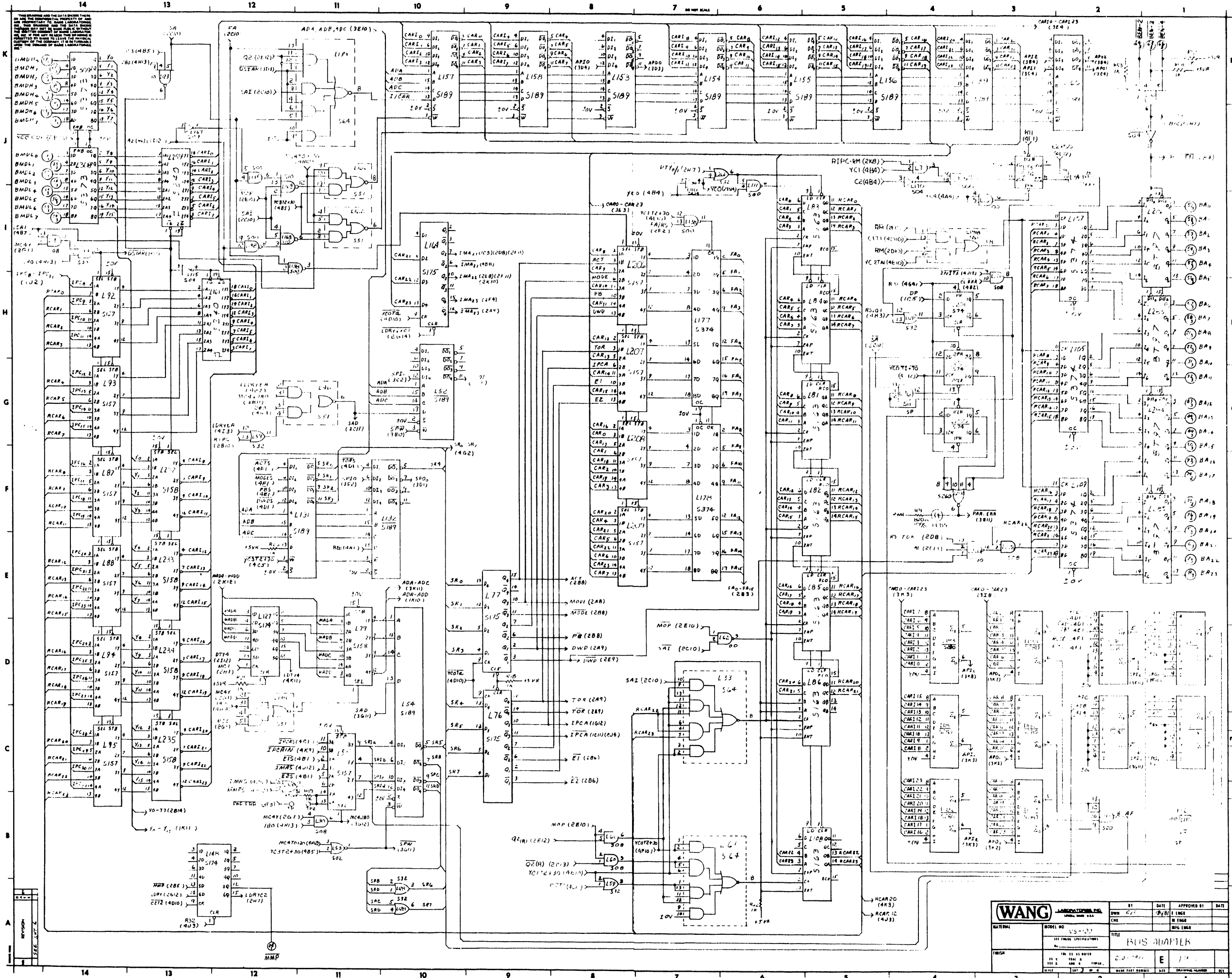
WANG drawing information block containing drawing number, date, and revision details.



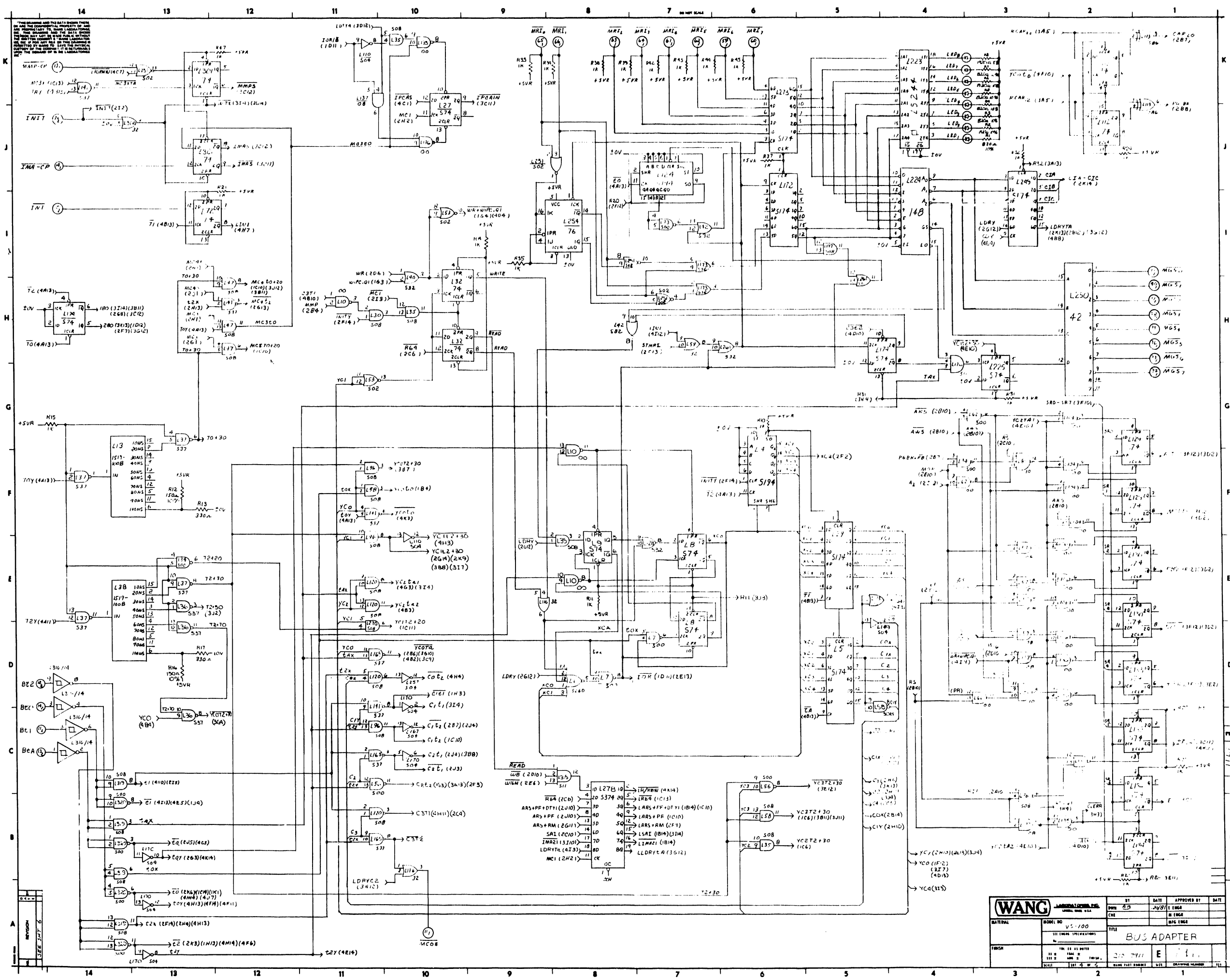


WANG		DATE	BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO	DATE	BY	DATE	APPROVED BY	DATE
7410	720					
TITLE		DATE	BY	DATE	APPROVED BY	DATE
PAR 14						
REV	DATE	BY	DATE	APPROVED BY	DATE	
1						

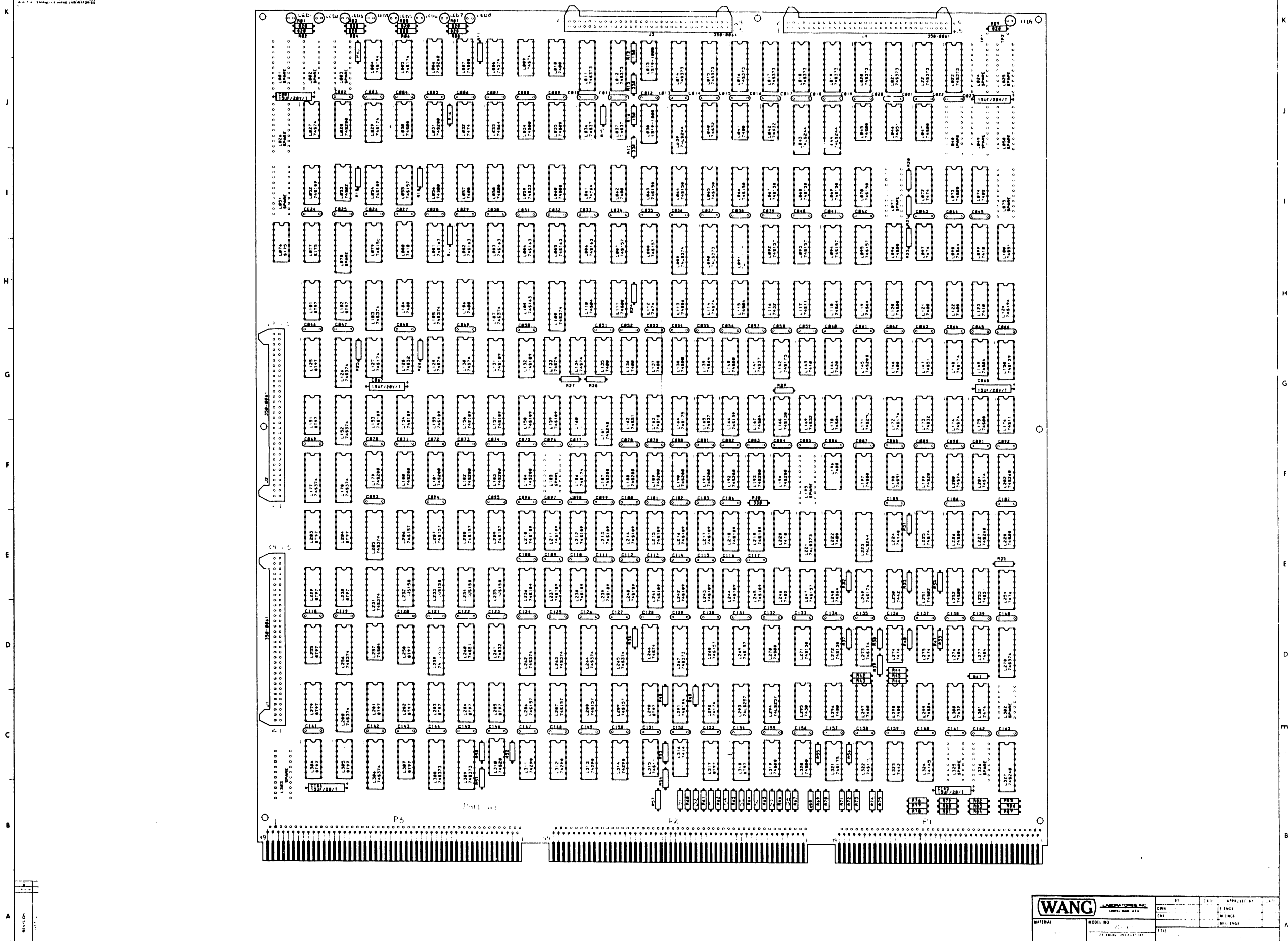




WANG		DATE	APPROVED BY	DATE
MODEL NO. 75-23		2/2/73	J. INCE	
TITLE		BUS ADAPTER		
DRAWN BY		E		
CHECKED BY				
DATE		1/27/73		



<b>WANG</b>		ST	DATE	APPROVED BY	DATE
MODEL NO. V5-100		CHK	7/20/71	W. ENGA	
TITLE		DRW		BFC ENGA	
BUS ADAPTER		REV			
DRAWN BY		CHK			
CHECKED BY		APP			
DATE		DES			
SCALE		DRW			
SHEET		REV			



6	
---	--

<b>WANG</b> CORPORATION		BY	DATE	APPROVED BY
MATERIAL	MODEL NO.	OWN		ENGINE
		ENG		ENGINE
FINISH	TO BE AS SHOWN			E



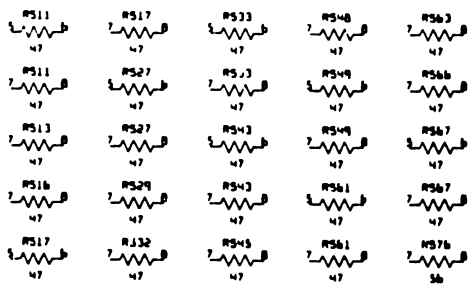
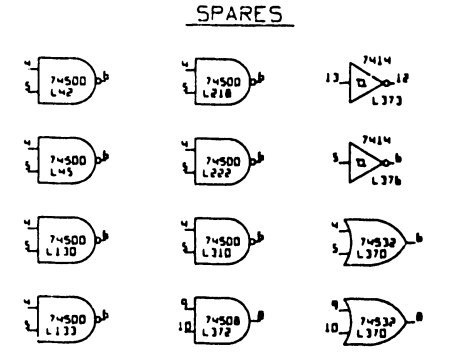
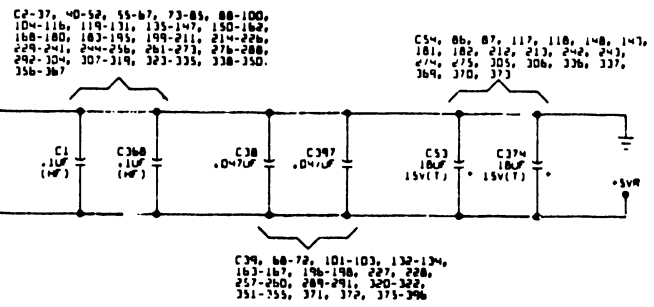
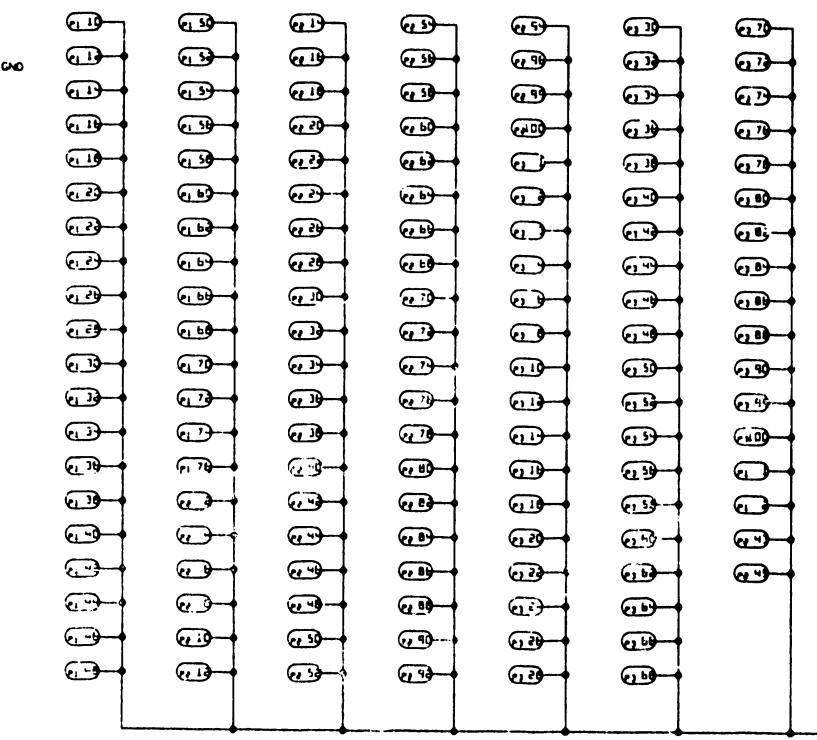
14 13 12 11 10 9 8 7 6 5 4 3 2 1

THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS TO BE KEPT IN CONFIDENCE AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

NOTES

1. ALL RESISTOR VALUES IN OHMS.
2. ALL CAPACITOR VALUES IN MICROFARADS.
3. ALL RESISTORS 1/4W 5% UNLESS OTHERWISE INDICATED.
4. SIGNAL'S IN PARENTHESIS ( ) DENOTES "ODD" MEMORY CARD USED IN 2ND, 4TH, 6TH, AND 8TH SLOTS.

MEMONICS	COORD.
MEM00	2A10
MEM01	2A10
MEM02	21A
MEM03	21A
MEM04	21A
MEM05	21A
MEM06	21A
MEM07-MEM09	207
MEM10-MEM12	202
MEM13-MEM15	207
MEM17-MEM19	207
MEM20	207
MEM21	207
MEM22	207
MEM23	207
MEM24	207
MEM25	207
MEM26	207
MEM27	207
MEM28	207
MEM29	207
MEM30	207
MEM31	207
MEM32	207
MEM33	207
MEM34	207
MEM35	207
MEM36	207
MEM37	207
MEM38	207
MEM39	207
MEM40	207
MEM41	207
MEM42	207
MEM43	207
MEM44	207
MEM45	207
MEM46	207
MEM47	207
MEM48	207
MEM49	207
MEM50	207
MEM51	207
MEM52	207
MEM53	207
MEM54	207
MEM55	207
MEM56	207
MEM57	207
MEM58	207
MEM59	207
MEM60	207
MEM61	207
MEM62	207
MEM63	207
MEM64	207
MEM65	207
MEM66	207
MEM67	207
MEM68	207
MEM69	207
MEM70	207
MEM71	207
MEM72	207
MEM73	207
MEM74	207
MEM75	207
MEM76	207
MEM77	207
MEM78	207
MEM79	207
MEM80	207
MEM81	207
MEM82	207
MEM83	207
MEM84	207
MEM85	207
MEM86	207
MEM87	207
MEM88	207
MEM89	207
MEM90	207
MEM91	207
MEM92	207
MEM93	207
MEM94	207
MEM95	207
MEM96	207
MEM97	207
MEM98	207
MEM99	207
MEM100	207



REV	DESCRIPTION	P.C.D.	DATE	BY
1	ORIGINATED PER	1-17-83		
2	REVISED PER	1-19-84		
3	REVISED PER	7-3-84		

WANG LABORATORIES, INC.

SCHEMATIC DIAGRAM

TITLE: 2MEG MAIN MEM M/L

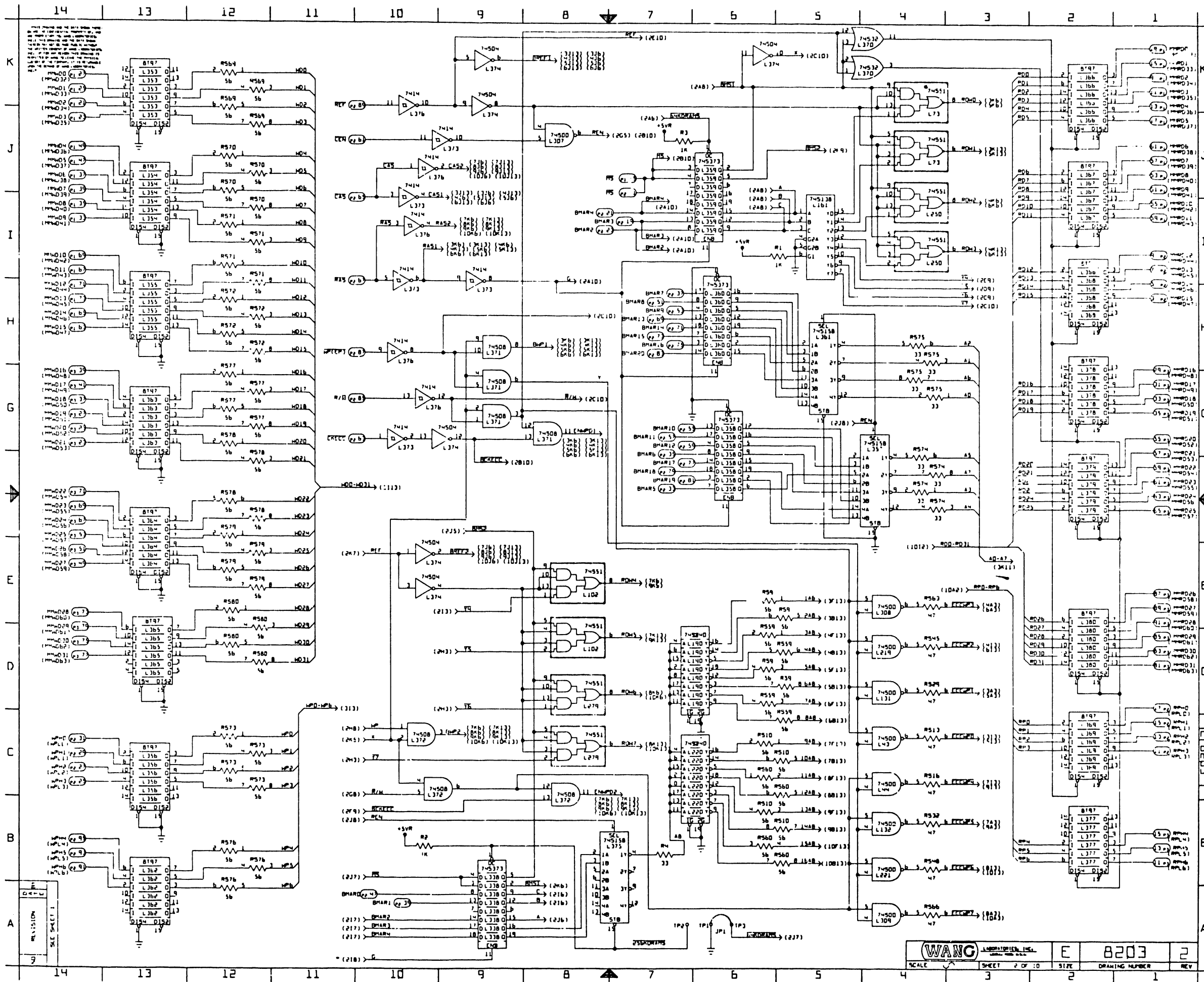
WANG PART NUMBER: 210 8203

DESIGNER: E

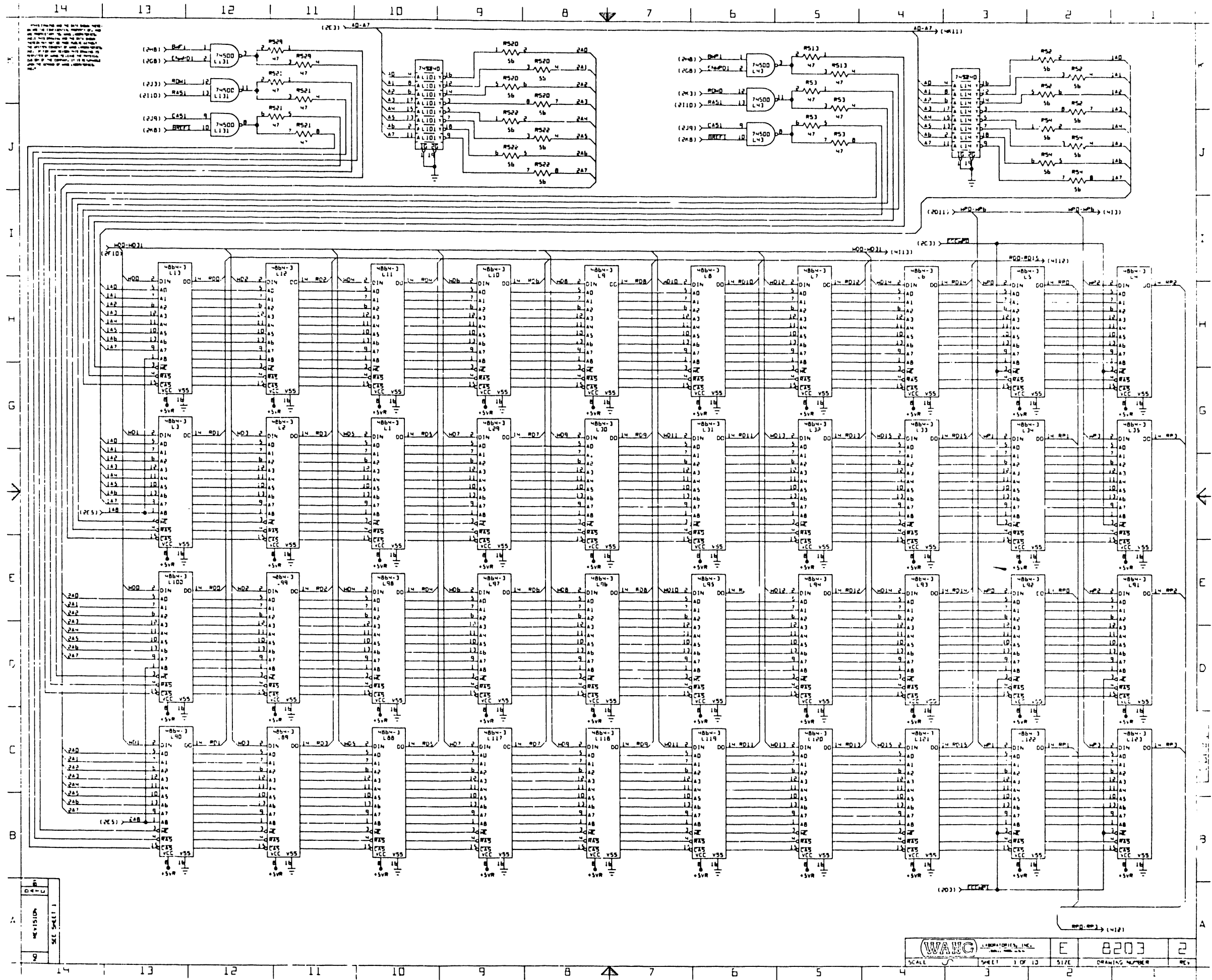
CHECKER: 8203

DATE: 2

SCALE: SHEET 1 OF 10

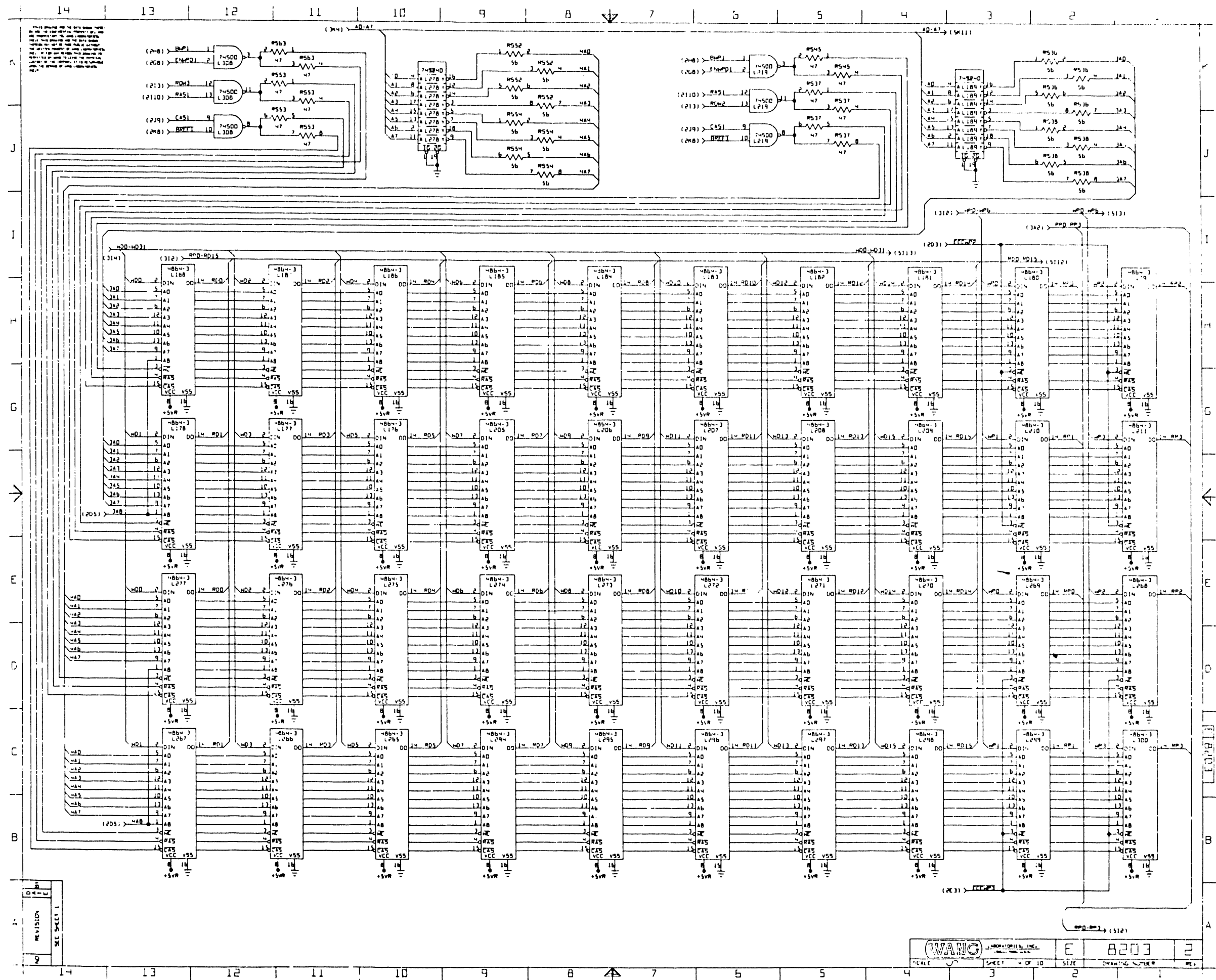


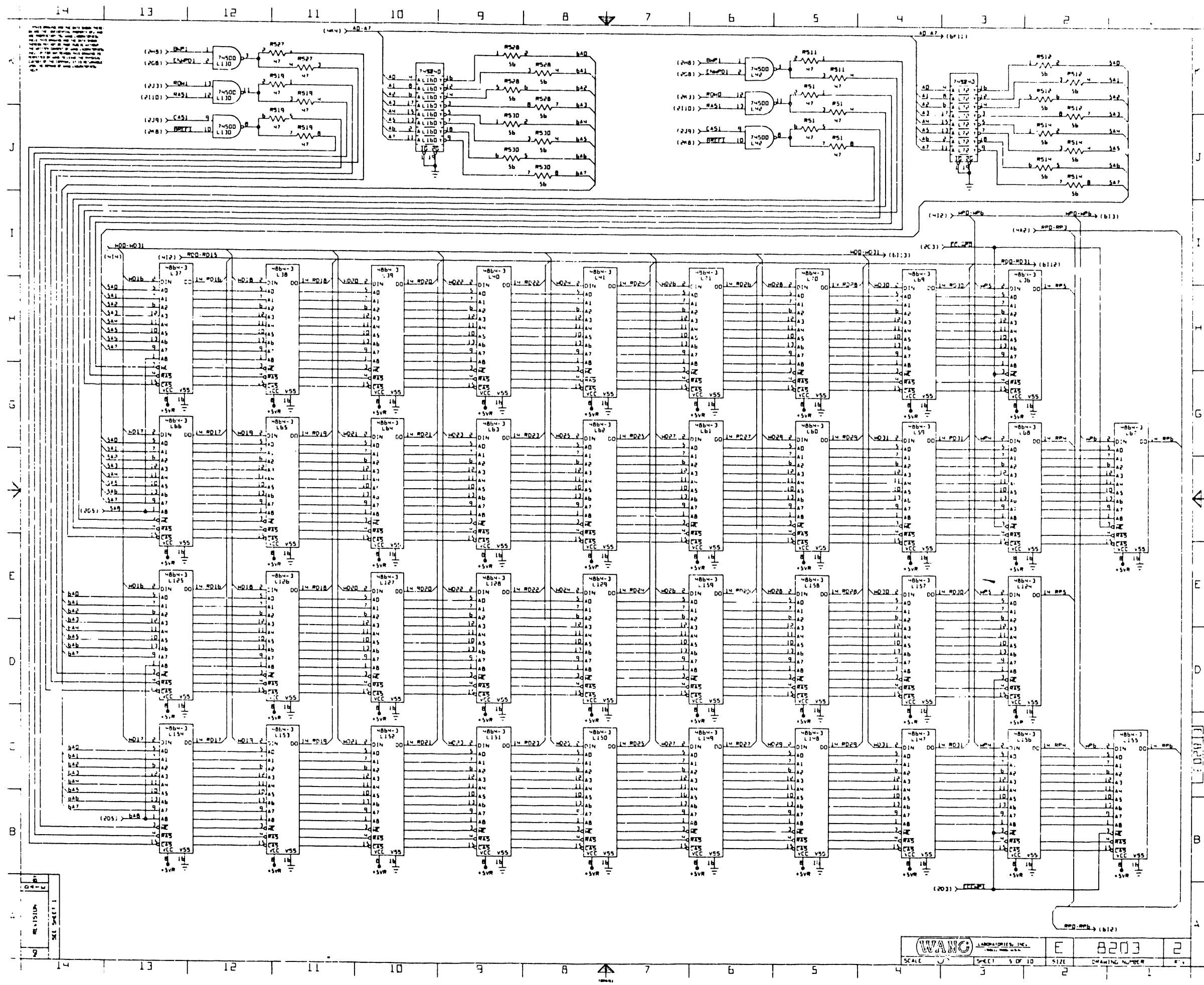




THIS DRAWING AND THE DATA THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT IN CONFIDENTIALITY. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

WANG LABORATORIES, INC.		E	8203	2
SCALE	SHEET 1 OF 13	SIZE	DRAWING NUMBER	REV.

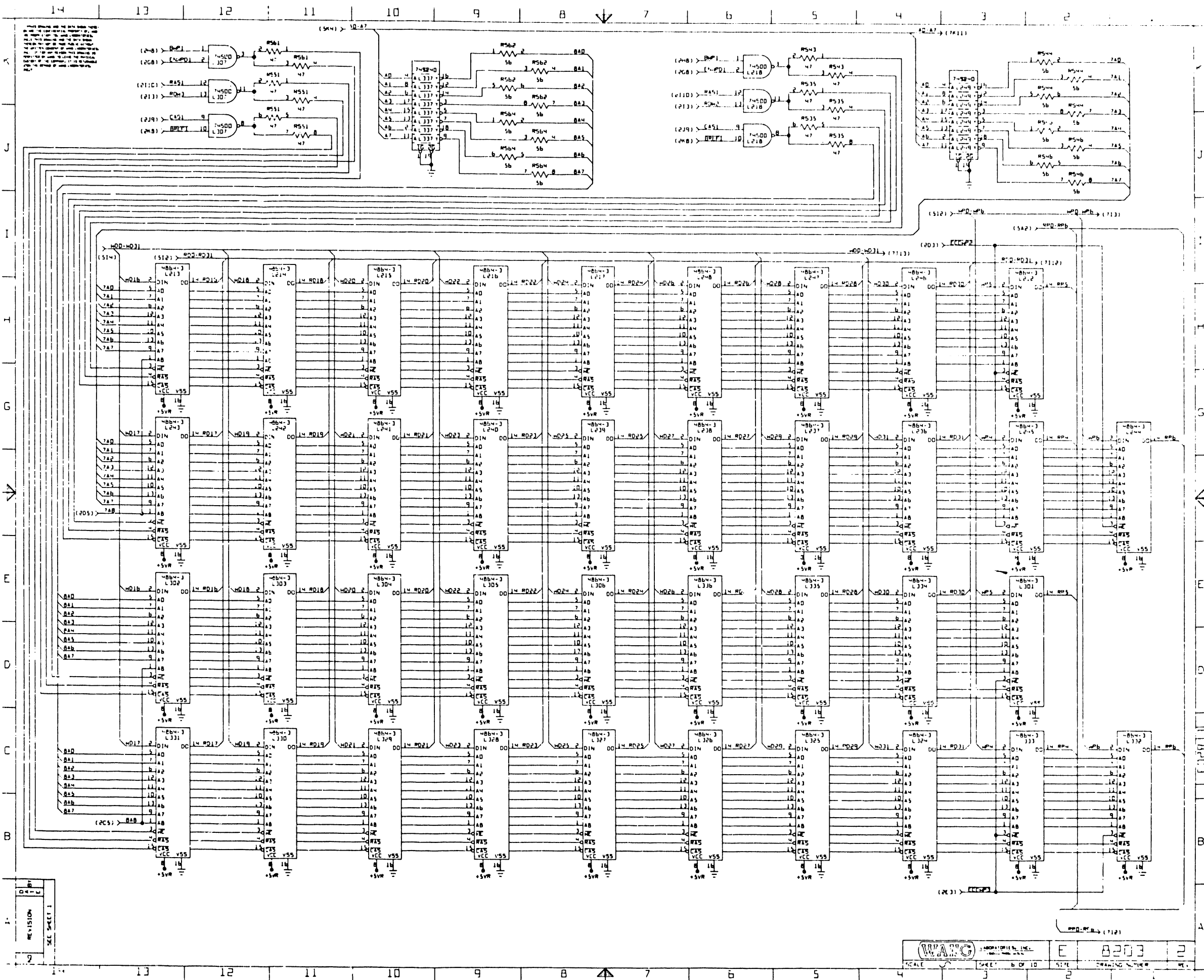


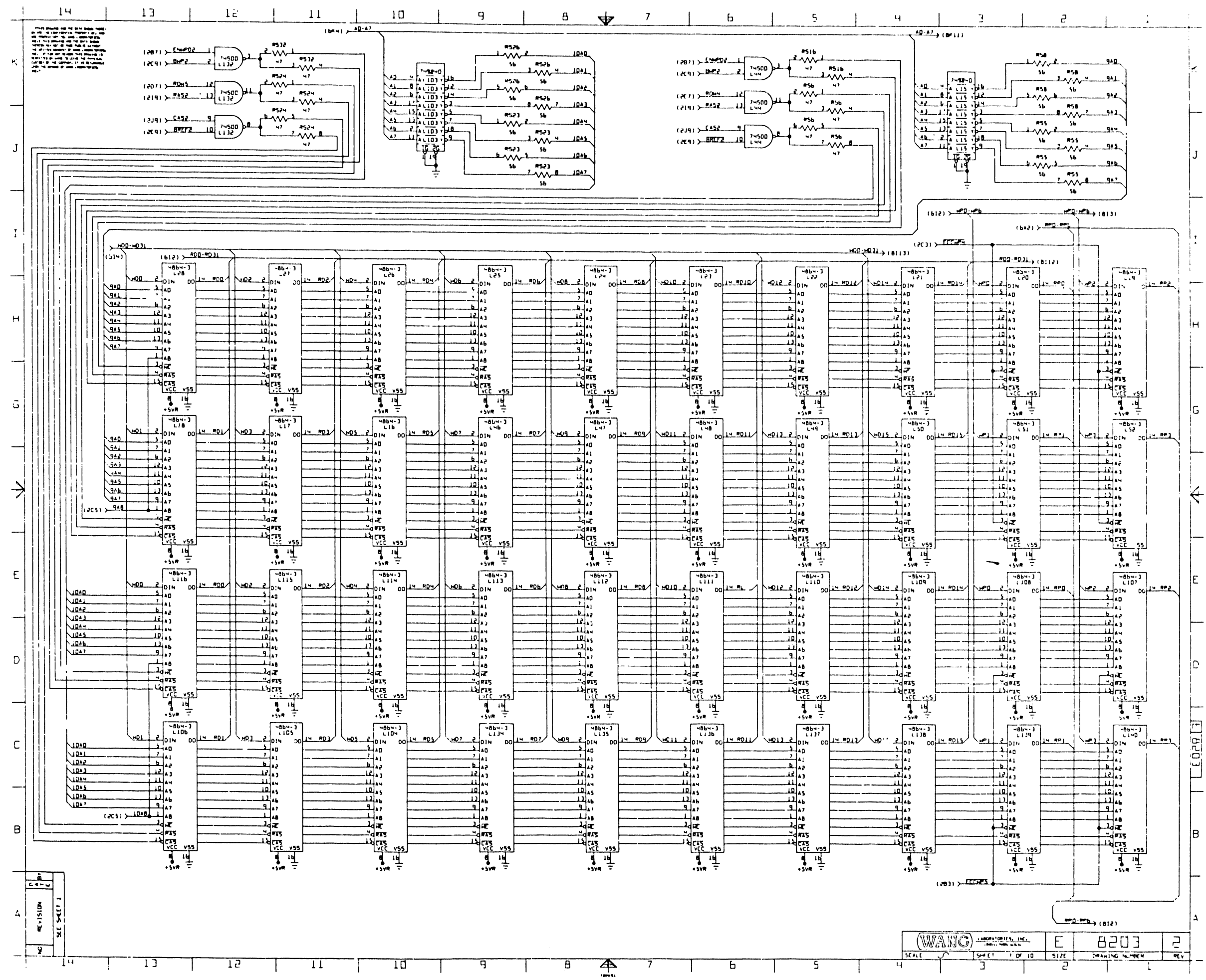


THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

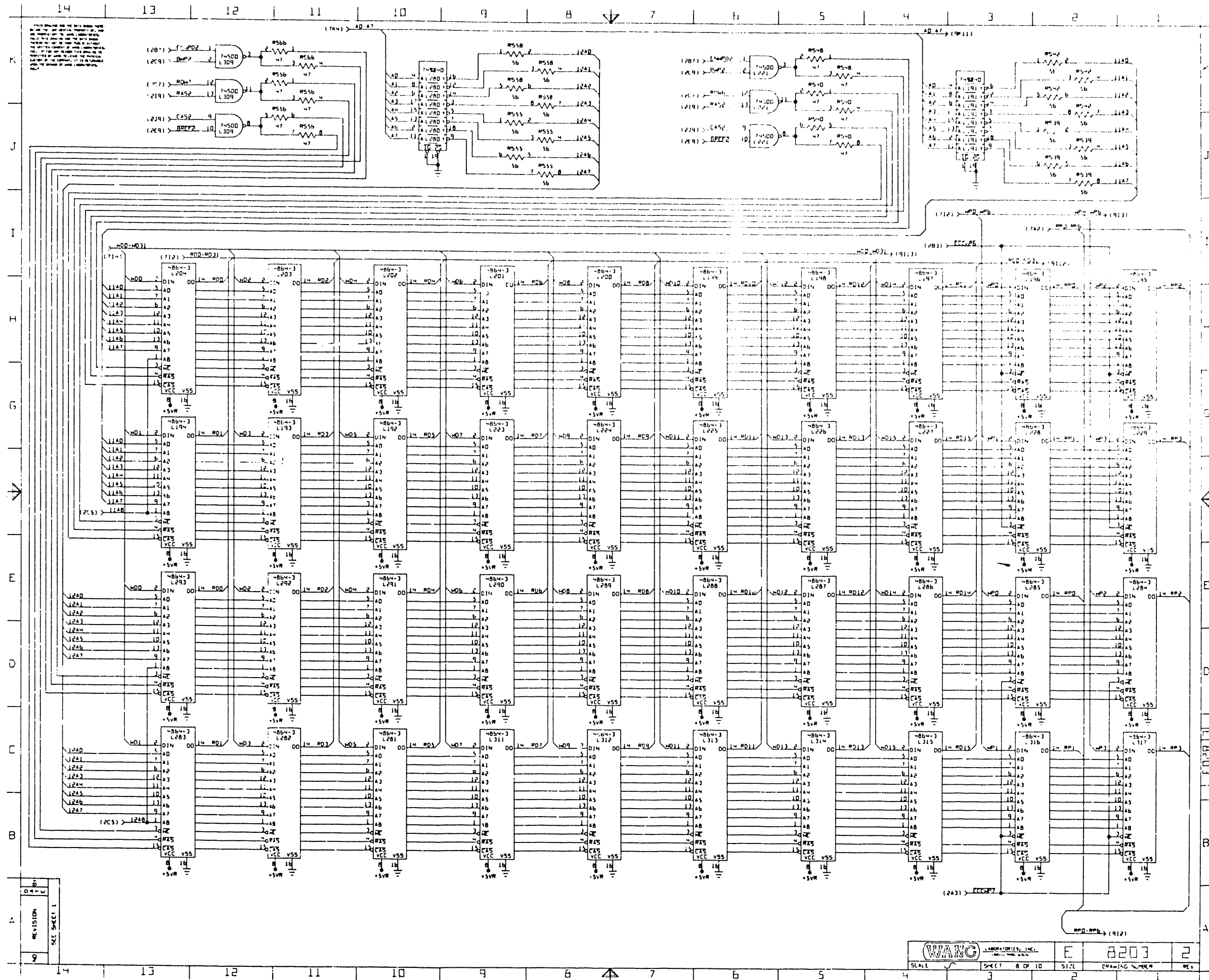
REVISION  
 SEE SHEET 1

WANG LABORATORIES, INC.  
 E 8203 2  
 SCALE SHEET 5 OF 10 SIZE DRAWING NUMBER P.



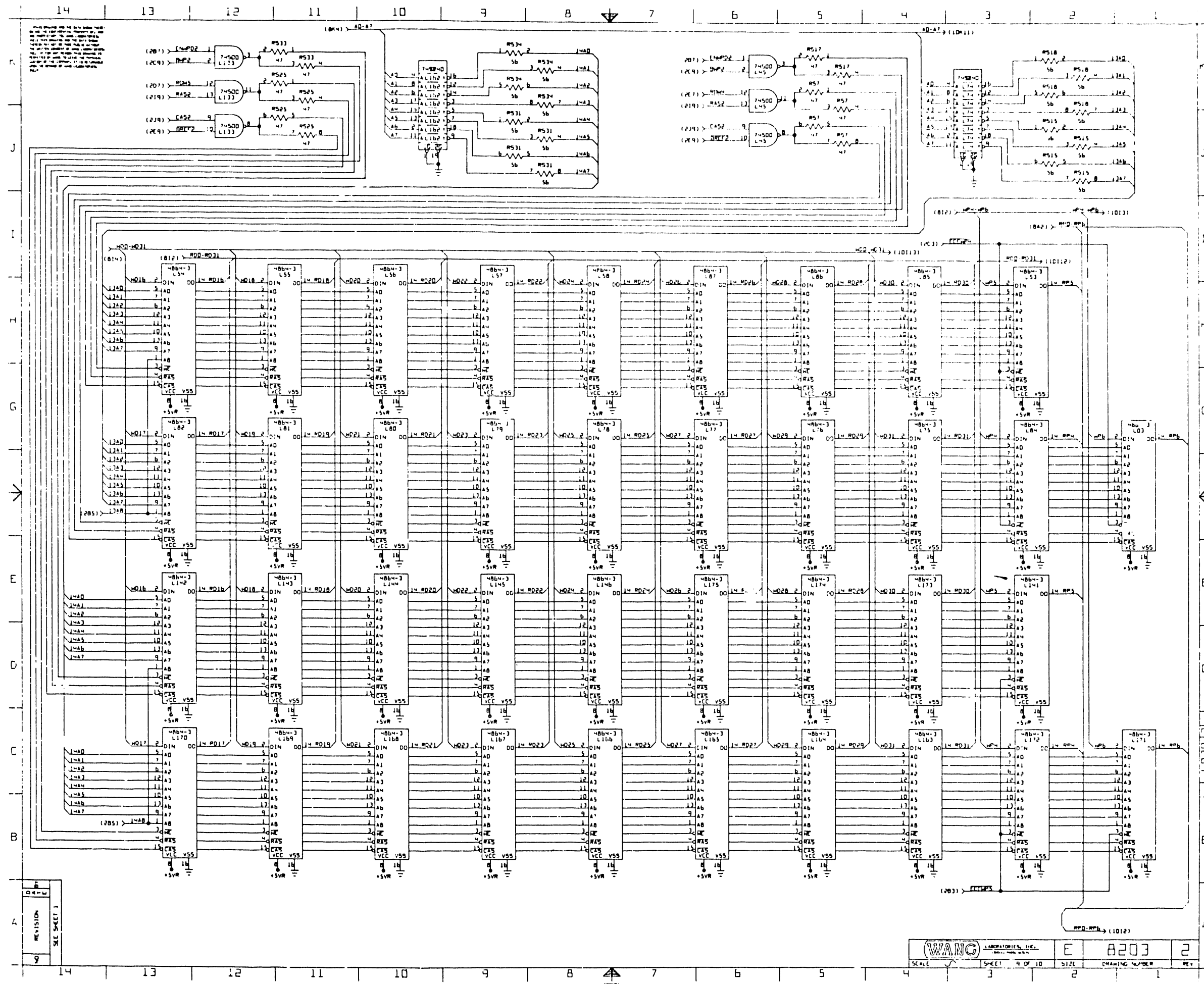


REVISION  
 9  
 SEE SHEET 1



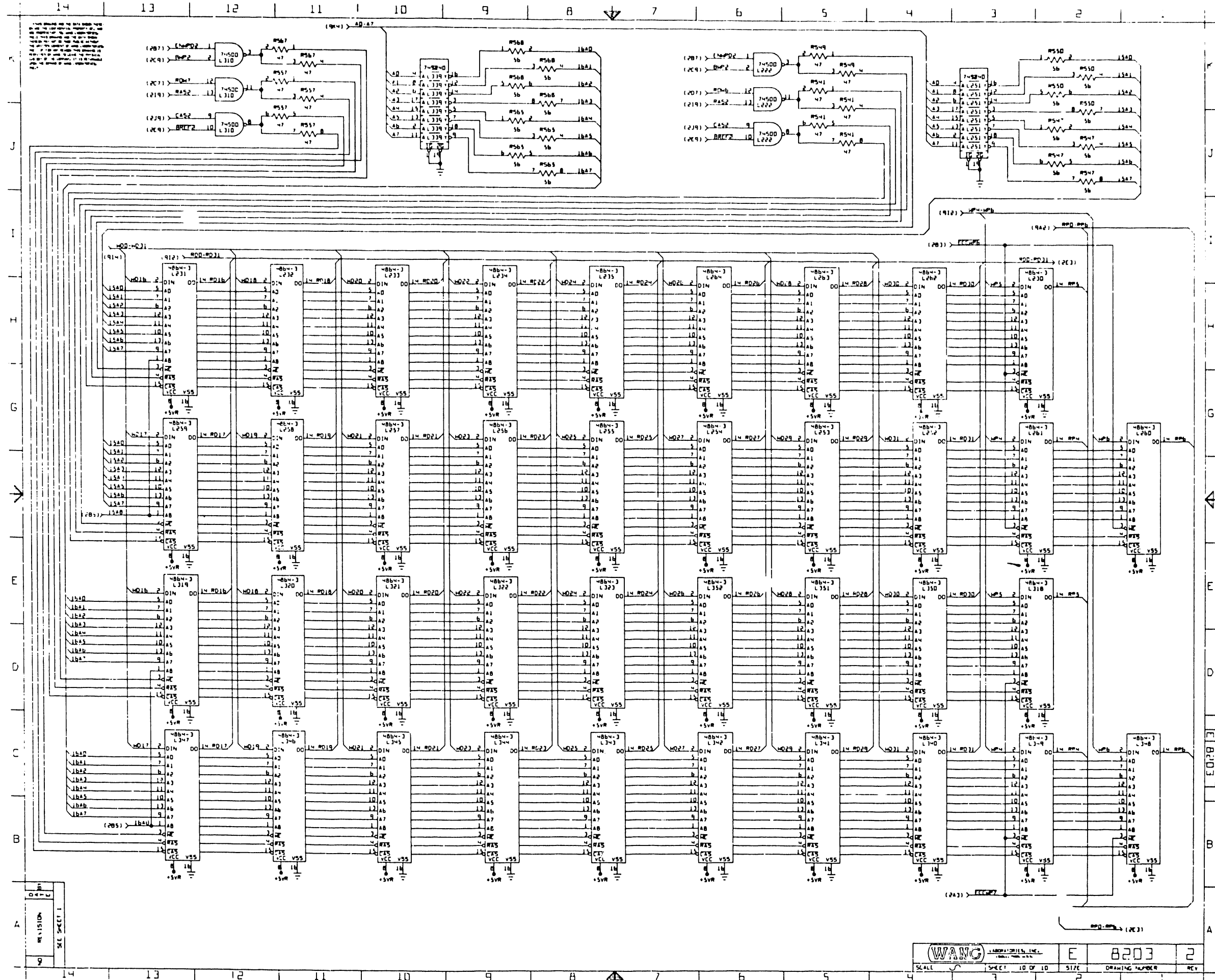
REVISION  
SHEET 1

WANG LABORATORIES, INC.		E	2203	2
SCALE	SHEET 8 OF 10	SIZ.	DRAWING NUMBER	REV.

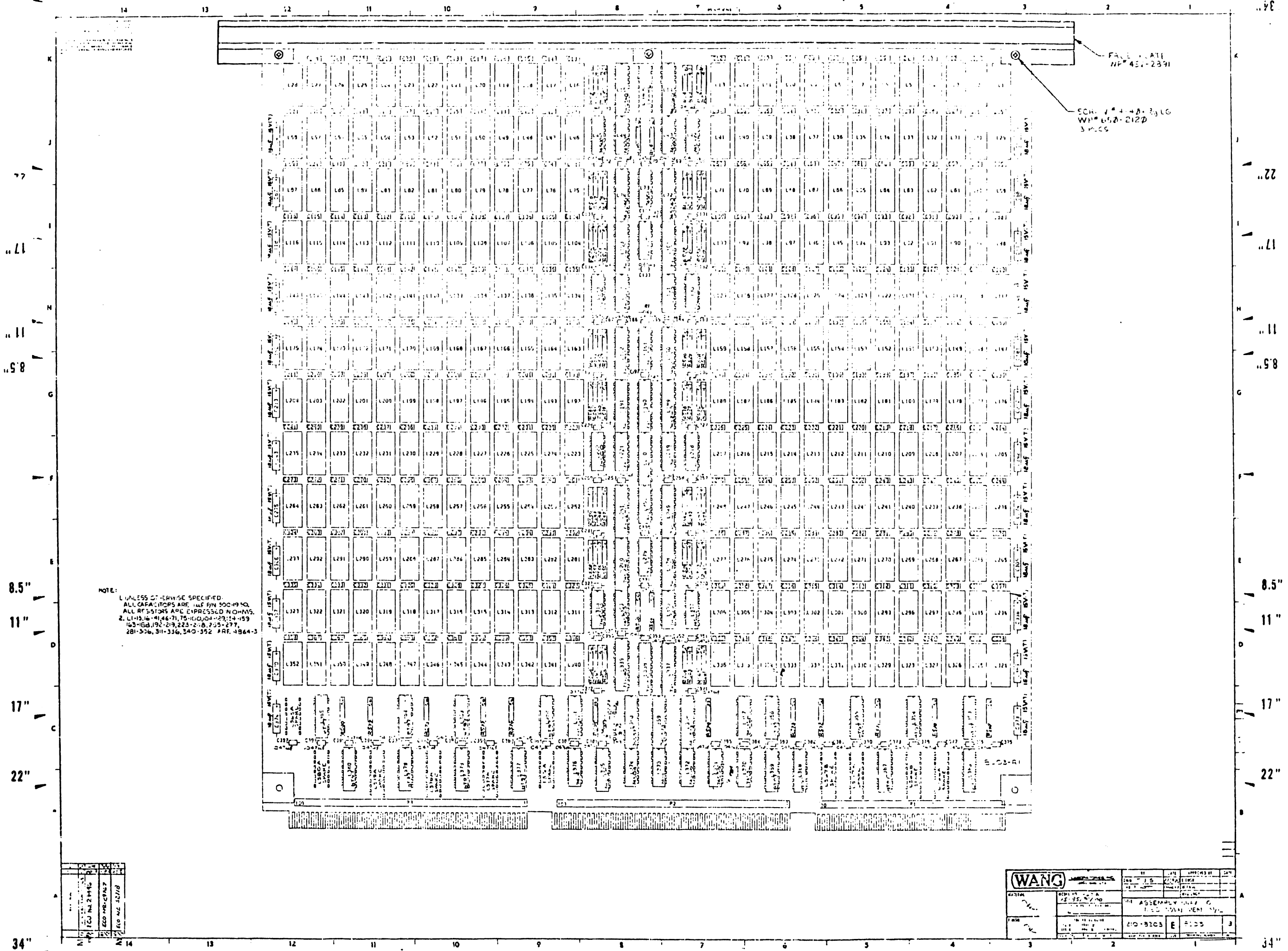


04-L  
 REVISION  
 9  
 SHEET 1  
 14

WANG LABORATORIES, INC.  
 8203  
 SCALE SHEET 9 OF 10 SIZE DRAWING NUMBER REV







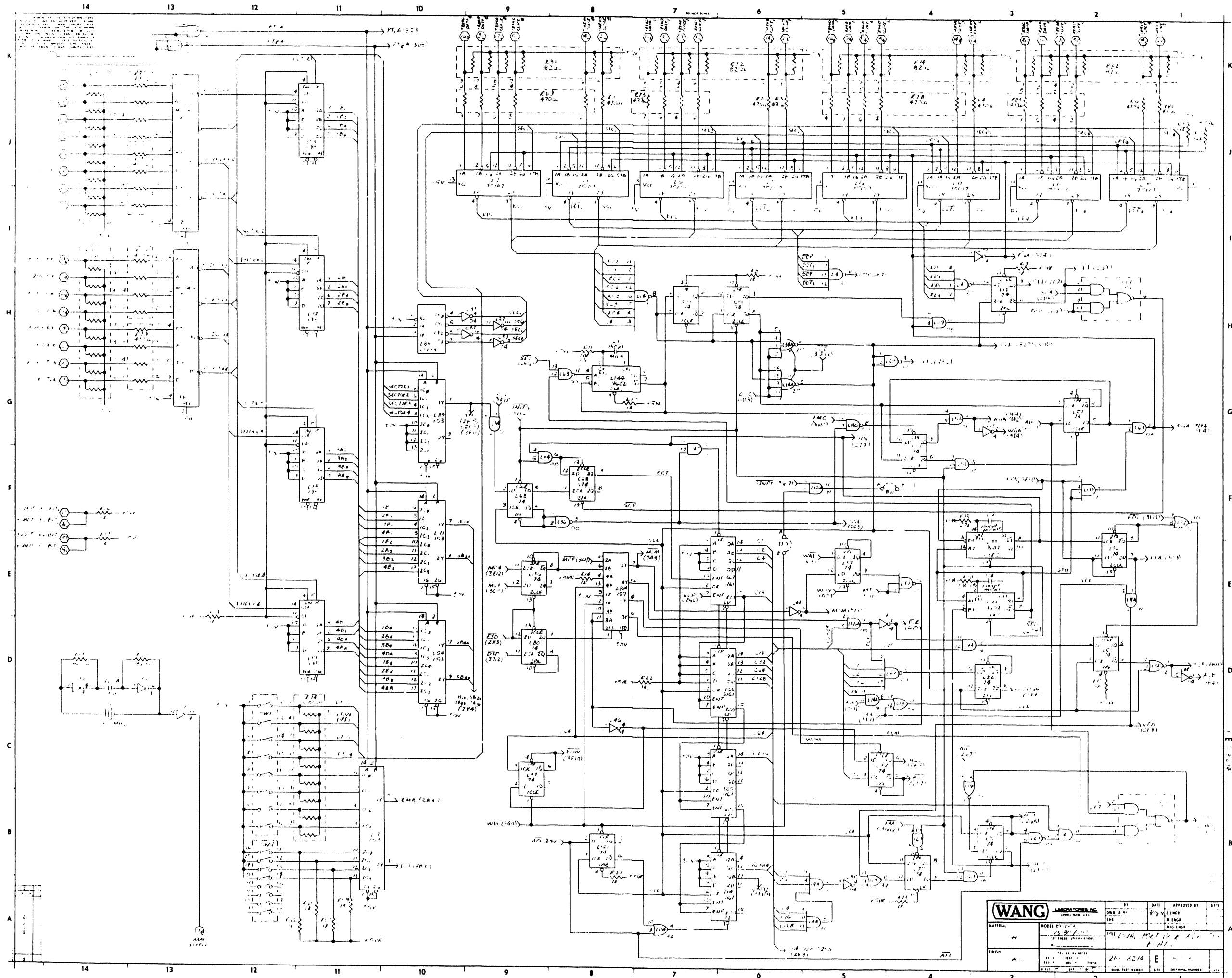
FACE 1 AT1  
REF# 452-2391

SCR. 1/4" x 3/16"  
WH# 650-2120  
3 P.C.C.S

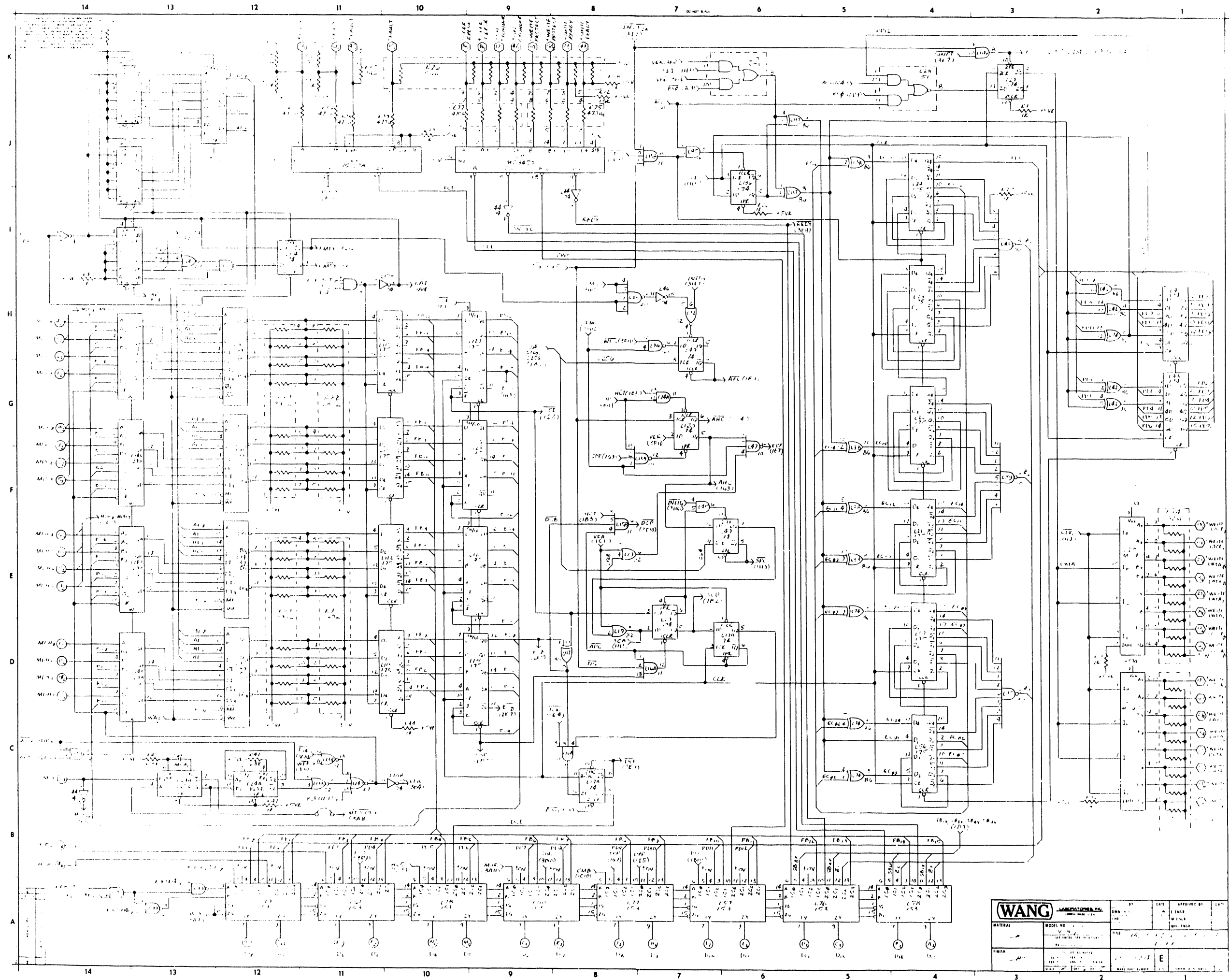
NOTE:  
1. UNLESS OTHERWISE SPECIFIED,  
ALL CAPACITORS ARE 10% P/N 500-49 NO.  
ALL RESISTORS ARE EXPRESSED IN OHMS.  
2. L1-13, 16-41, 46-71, 75-100, 104-129, 144-159  
163-188, 192-219, 223-248, 253-277,  
281-306, 311-336, 340-352 ARE 4864-3

REV	DATE	BY	CHKD
1	10/24/66	WJG	WJG
2	11/15/66	WJG	WJG
3	12/15/66	WJG	WJG
4	1/15/67	WJG	WJG
5	2/15/67	WJG	WJG
6	3/15/67	WJG	WJG
7	4/15/67	WJG	WJG
8	5/15/67	WJG	WJG
9	6/15/67	WJG	WJG
10	7/15/67	WJG	WJG
11	8/15/67	WJG	WJG
12	9/15/67	WJG	WJG
13	10/15/67	WJG	WJG
14	11/15/67	WJG	WJG

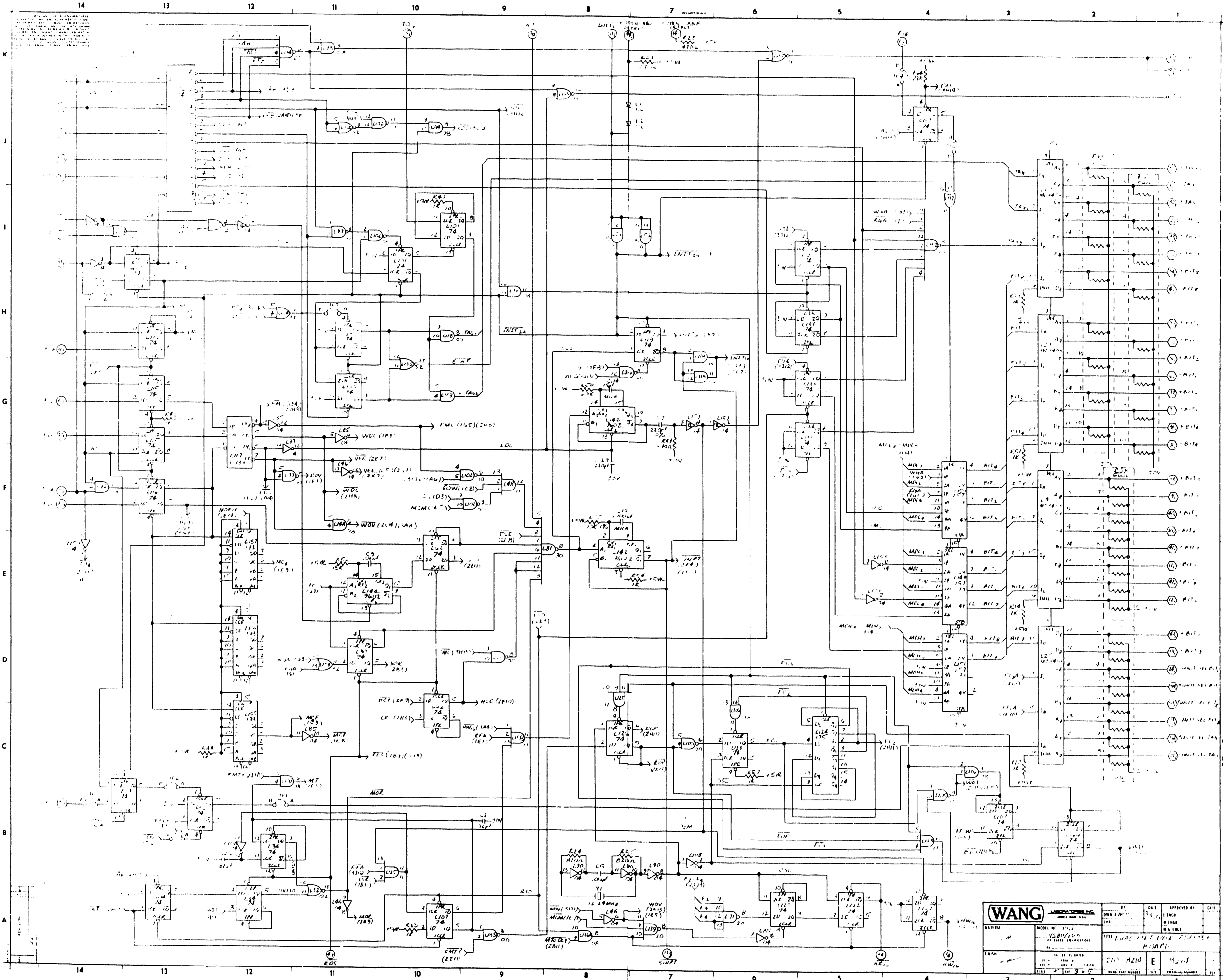
<b>WANG</b>		DATE	BY	CHKD
10/25/66		10/25/66	WJG	WJG
THE ASSEMBLY LINE CO.		100 MAIN STREET, NEW YORK, N.Y.		
210-B103	E	R103	3	



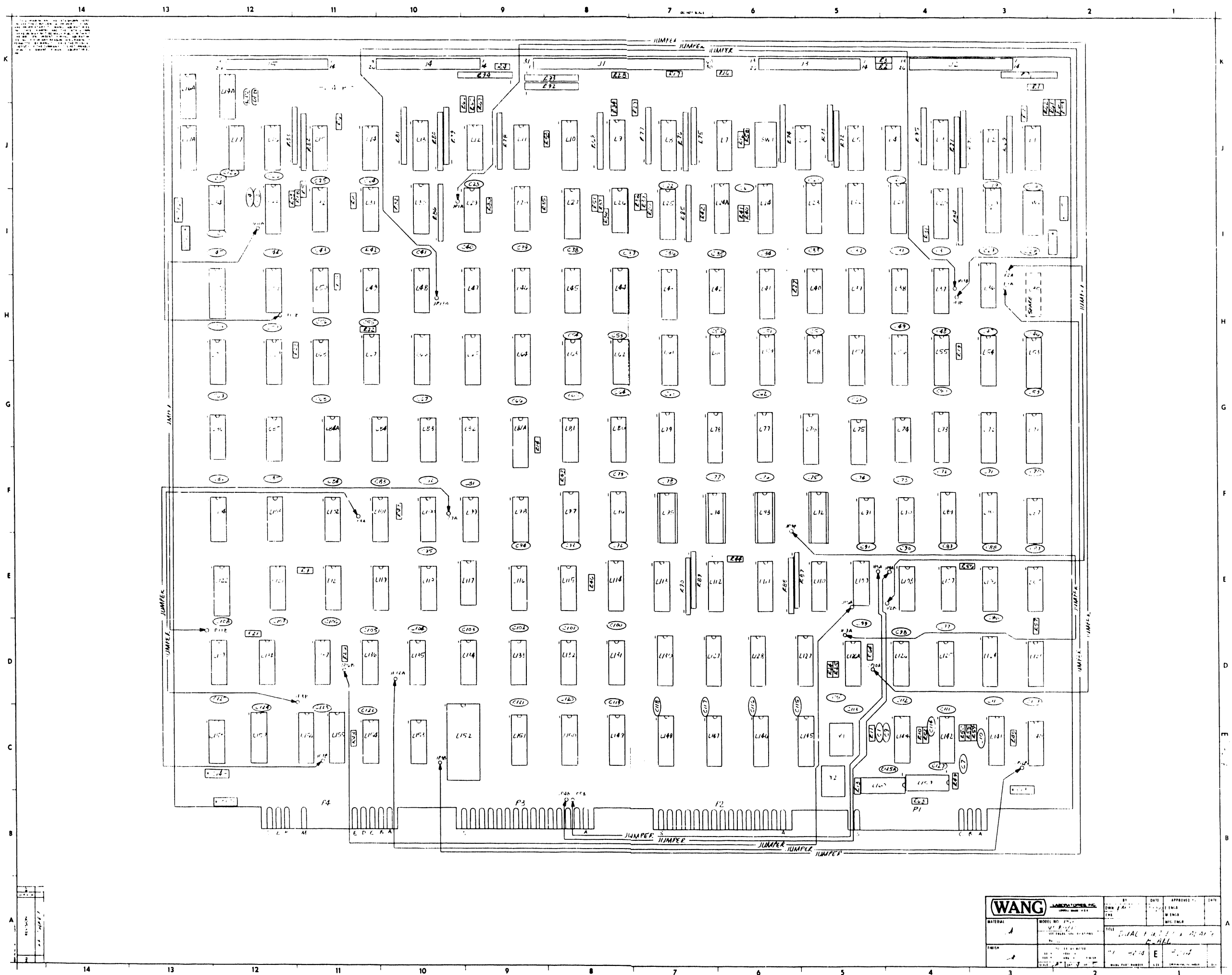
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 7200	DRW. NO.	375	ENGR.	
		CHKD.		ENGR.	
		APP'D.		ENGR.	
		DATE	2/14/64		
		DRW. NO.	E		
		DATE			
		DRW. NO.			



<b>WANG</b>		MANUFACTURED BY	DATE	APPROVED BY	DATE
MODEL NO.	REV.	DATE	ENGINEER	DATE	
DESIGNED BY	DATE	DATE	DATE	DATE	
TESTED BY	DATE	DATE	DATE	DATE	
APPROVED BY	DATE	DATE	DATE	DATE	
E					



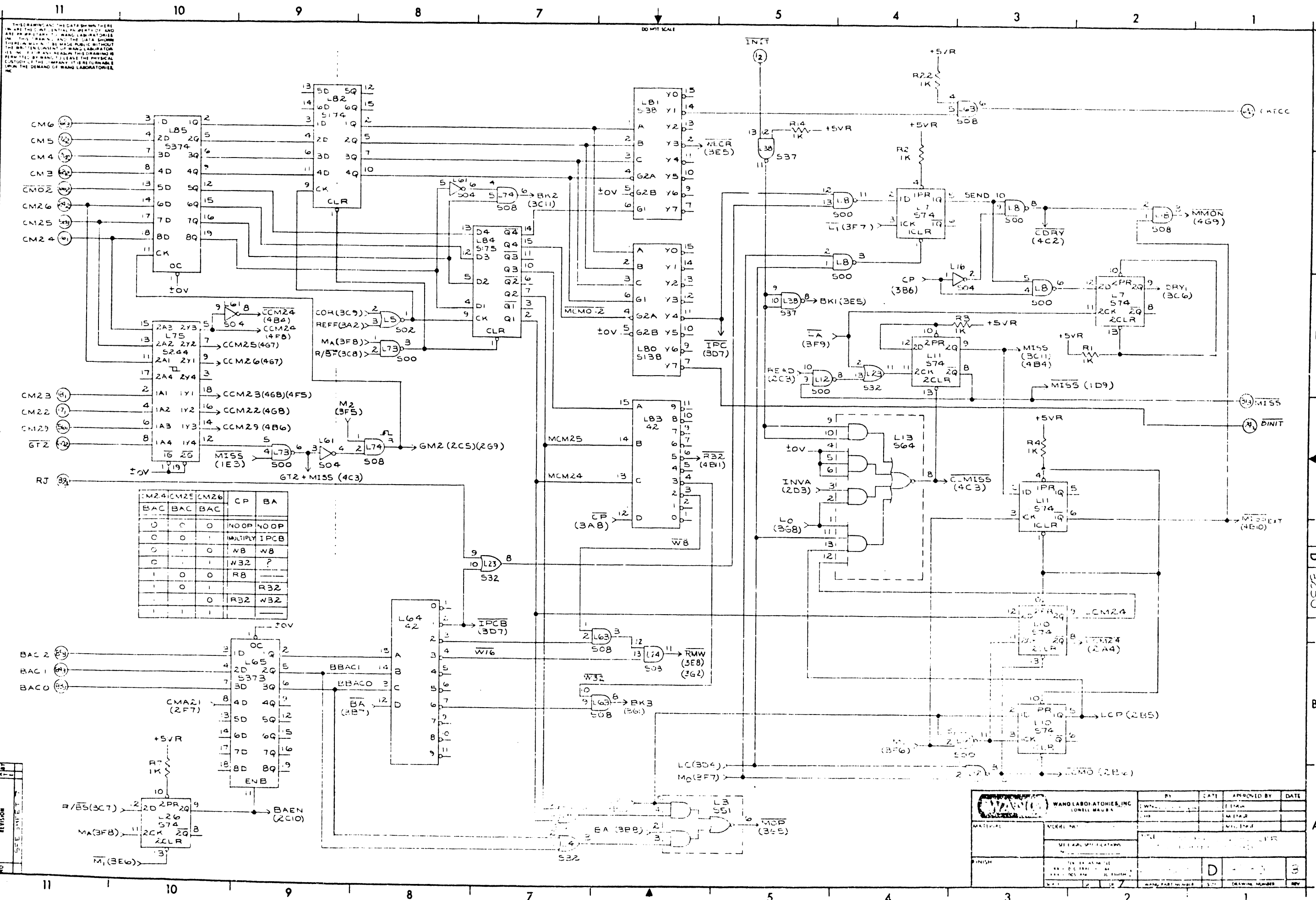
<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200	DESIGNER	DATE	ENGINEER	DATE
FINISH	2200-4214	DATE	DATE	DATE	DATE



THIS DRAWING IS THE PROPERTY OF WANG COMMUNICATIONS SERVICES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG COMMUNICATIONS SERVICES, INC.

<b>WANG</b> COMMUNICATIONS SERVICES, INC.		BY: [Signature]	DATE: 1/25/67	APPROVED: [Signature]	DATE: 1/25/67
MATERIAL: [Blank]	MODEL NO. [Blank]	OWN: [Blank]	ENG: [Blank]	W. ENG: [Blank]	W. ENG: [Blank]
TITLE: [Blank]		DRAWN BY: [Signature]			
REVISION: [Blank]		E			

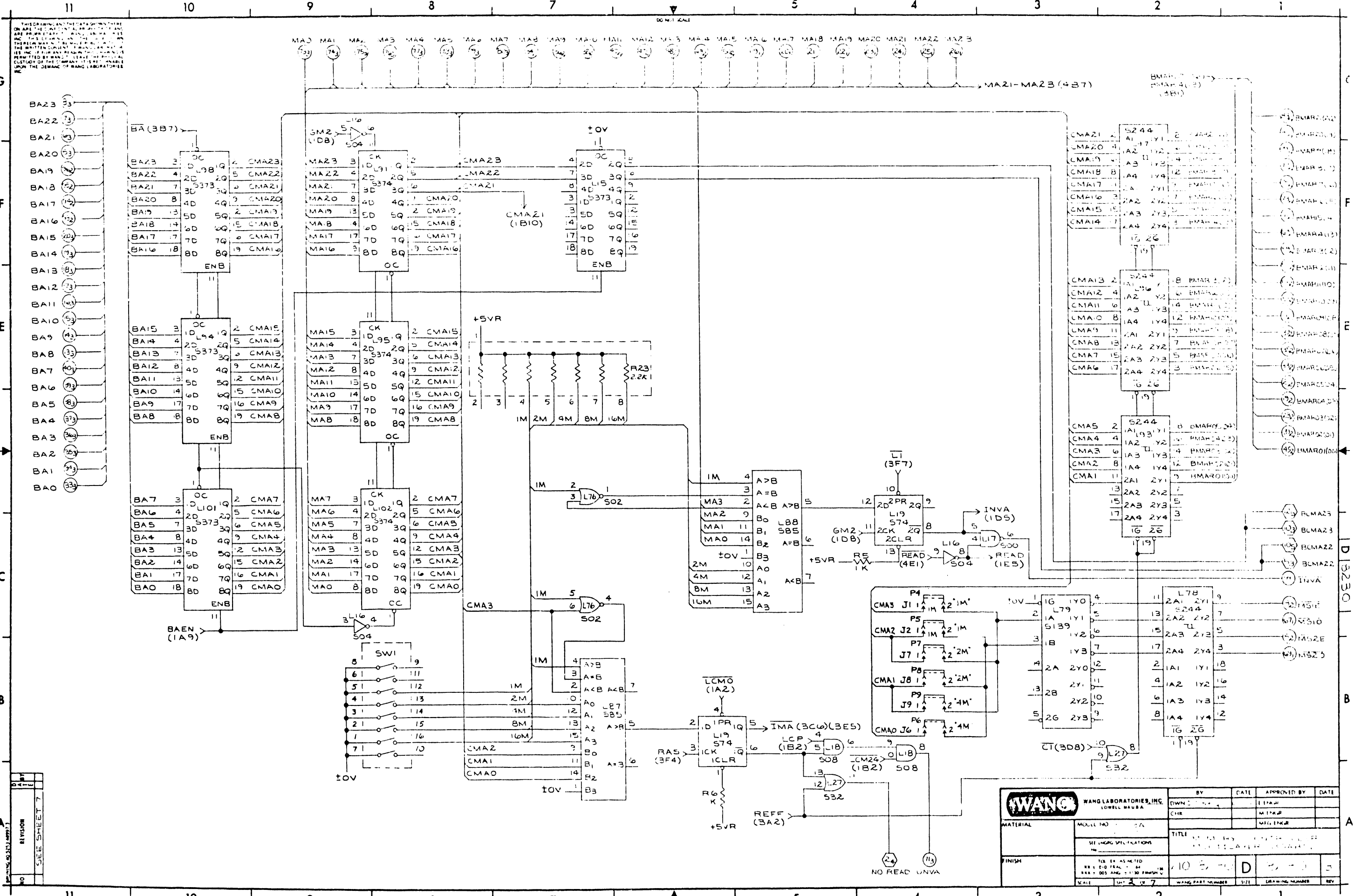




THIS DRAWING AND THE DATA SHOWN THEREIN ARE THE CONFIDENTIAL PROPERTY OF AND ARE NOT TO BE RELEASED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. FOR ANY REASON. THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. AND IS TO BE KEPT IN THE PHYSICAL CUSTODY OF THE COMPANY. IT IS LOANABLE UPON THE DEMAND OF WANG LABORATORIES.

CM24	CM25	CM26	CP	BA
BAC	BAC	BAC		
0	0	0	NOOP	NOOP
0	0	1	MULTIPLY	IPCB
0	0	0	WB	WB
0	0	1	W32	?
1	0	0	RB	
1	0	1	R32	
1	1	1		

WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
LORILL MAURA					
MICROFILM					
TITLE					
DRAWING NUMBER					
DRAWING NUMBER					

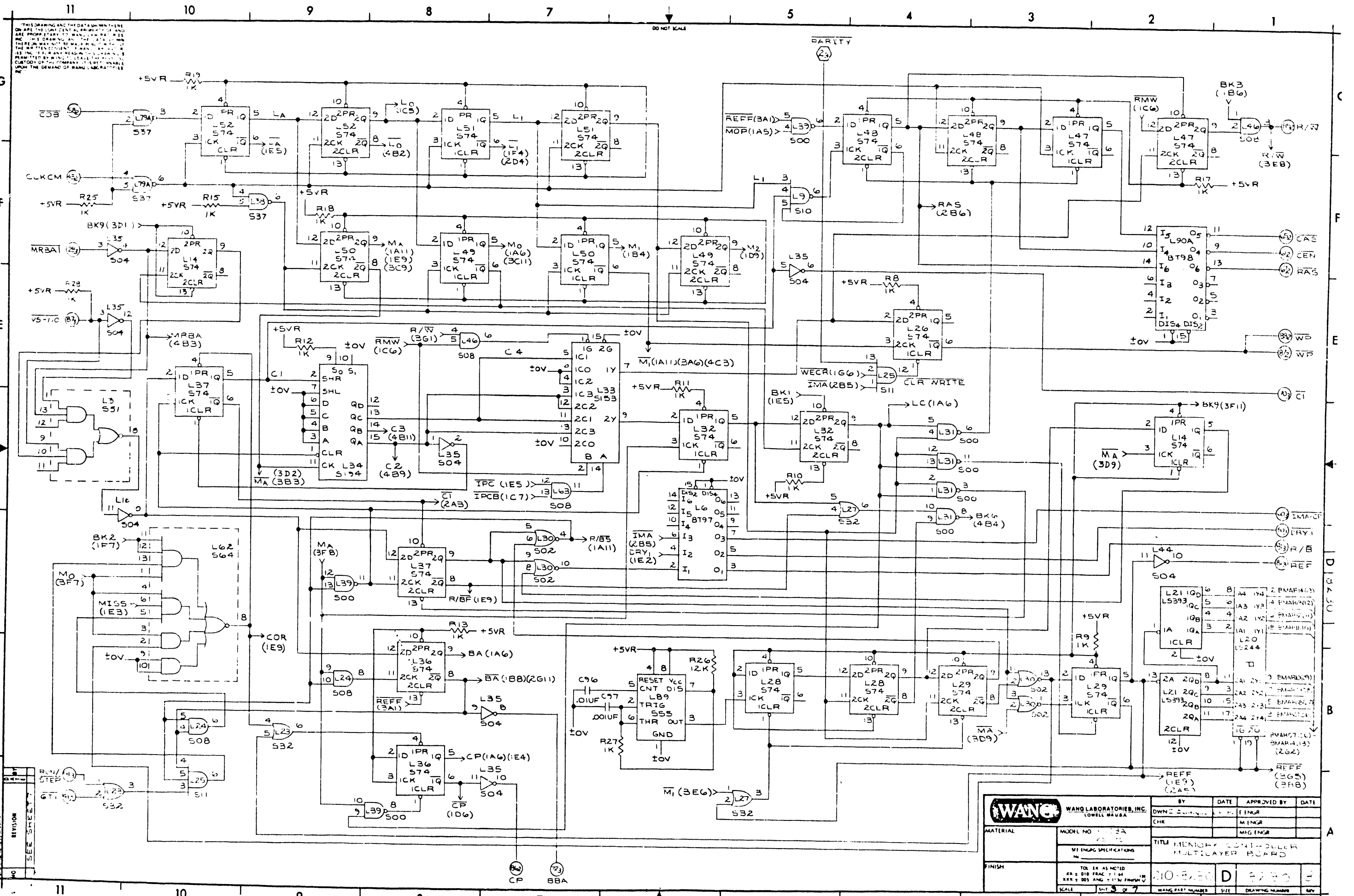


THIS DRAWING AND THE DATA SHOWN THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. THE COMPANY WILL BE HELD RESPONSIBLE FOR THE ACCURACY OF THE DATA SHOWN HEREON. THE COMPANY WILL NOT BE RESPONSIBLE FOR THE DAMAGE OF WANG LABORATORIES.

REV	DESCRIPTION	DATE
1	REVISED	10/20/67
2	REVISED	11/15/67
3	REVISED	12/10/67
4	REVISED	1/10/68
5	REVISED	2/10/68
6	REVISED	3/10/68
7	REVISED	4/10/68

WANG LABORATORIES, INC. LOWELL MAUSA		BY	DATE	APPROVED BY	DATE
MATERIAL	MULL NO. 57A	DOWN		LEPAH	
FINISH	SEE WANG SPECIFICATIONS	CHK		MEPAH	
				WFG ENGR	
TITLE		10 5 10 D 10 5 10			
SCALE		1/10 5 10 D 10 5 10			
WANG PART NUMBER		1/10 5 10 D 10 5 10			
DRAWING NUMBER		1/10 5 10 D 10 5 10			
REV		1/10 5 10 D 10 5 10			



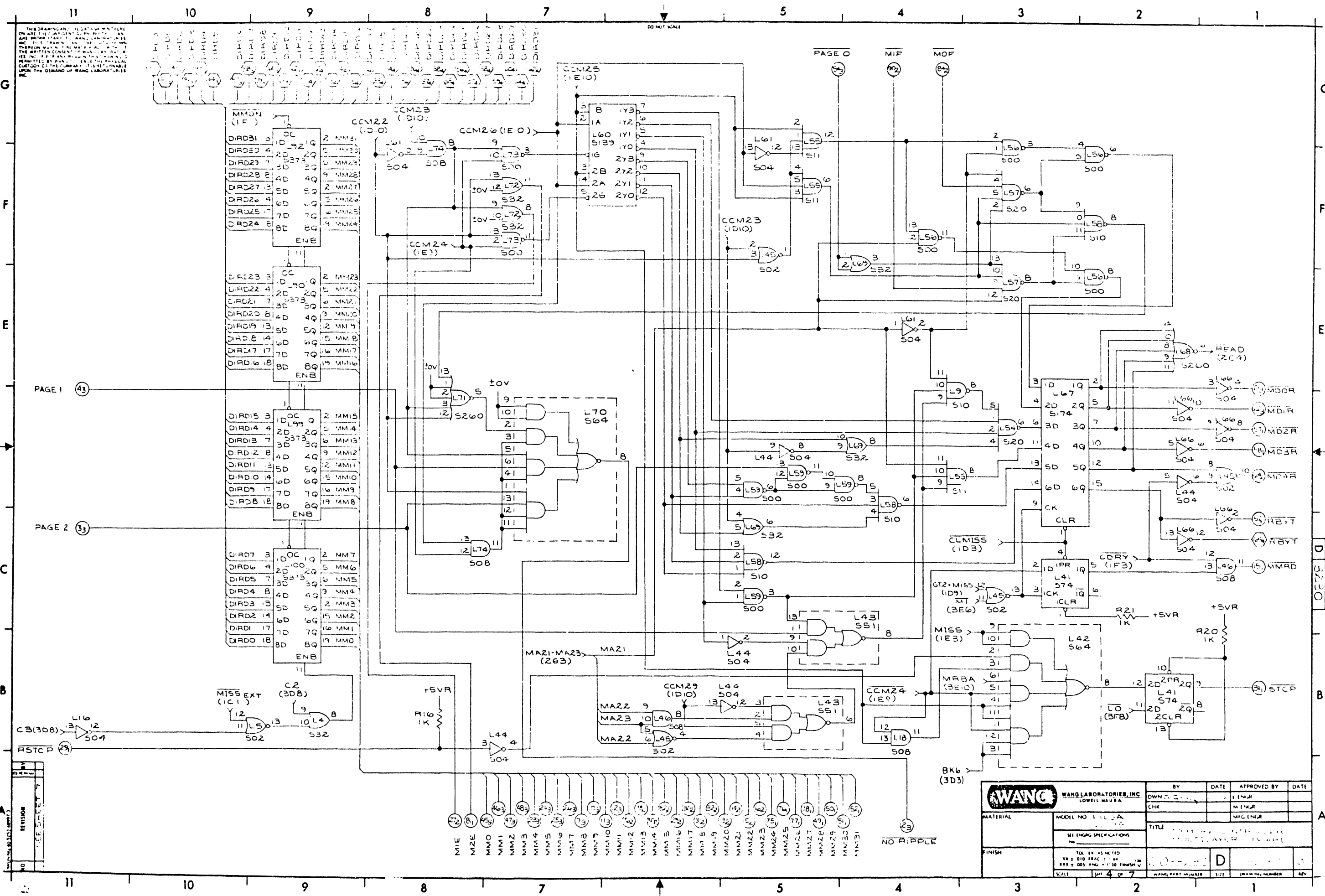


THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THE DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. CUSTOMER OF WANG LABORATORIES, INC. SHALL BE RESPONSIBLE FOR THE PROTECTION OF THIS DRAWING FROM THE DEMAND OF WANG LABORATORIES, INC.

DO NOT SCALE

REVISION	DATE	BY	APPROVED BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

<b>WANG</b> WANG LABORATORIES, INC. LOWELL MAUSA		BY	DATE	APPROVED BY	DATE
MATERIAL		DWNE		ENGR	
MODEL NO. 720 720-11		CHK		M ENGR	
SI ENGR SPECIFICATIONS		TITLE MEMORY CONTROL UNIT MULTILAYER BOARD			
FINISH		10. 18 AS NOTED R2 210 FRAC 21.44 R22 203 ANG 11.51 FINISH			
SCALE 1/8" = 1"		210-8280 D 2280 2			
		WANG PART NUMBER SIZE DRAWING NUMBER REV			



THIS DRAWING AND ALL INFORMATION HEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT IN CONFIDENTIALITY. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. THE PHYSICAL CUSTODY OF THIS DRAWING IS THE RESPONSIBILITY OF THE DEMANDER OF WANG LABORATORIES, INC.

DO NOT SCALE

PAGE 1 (43)

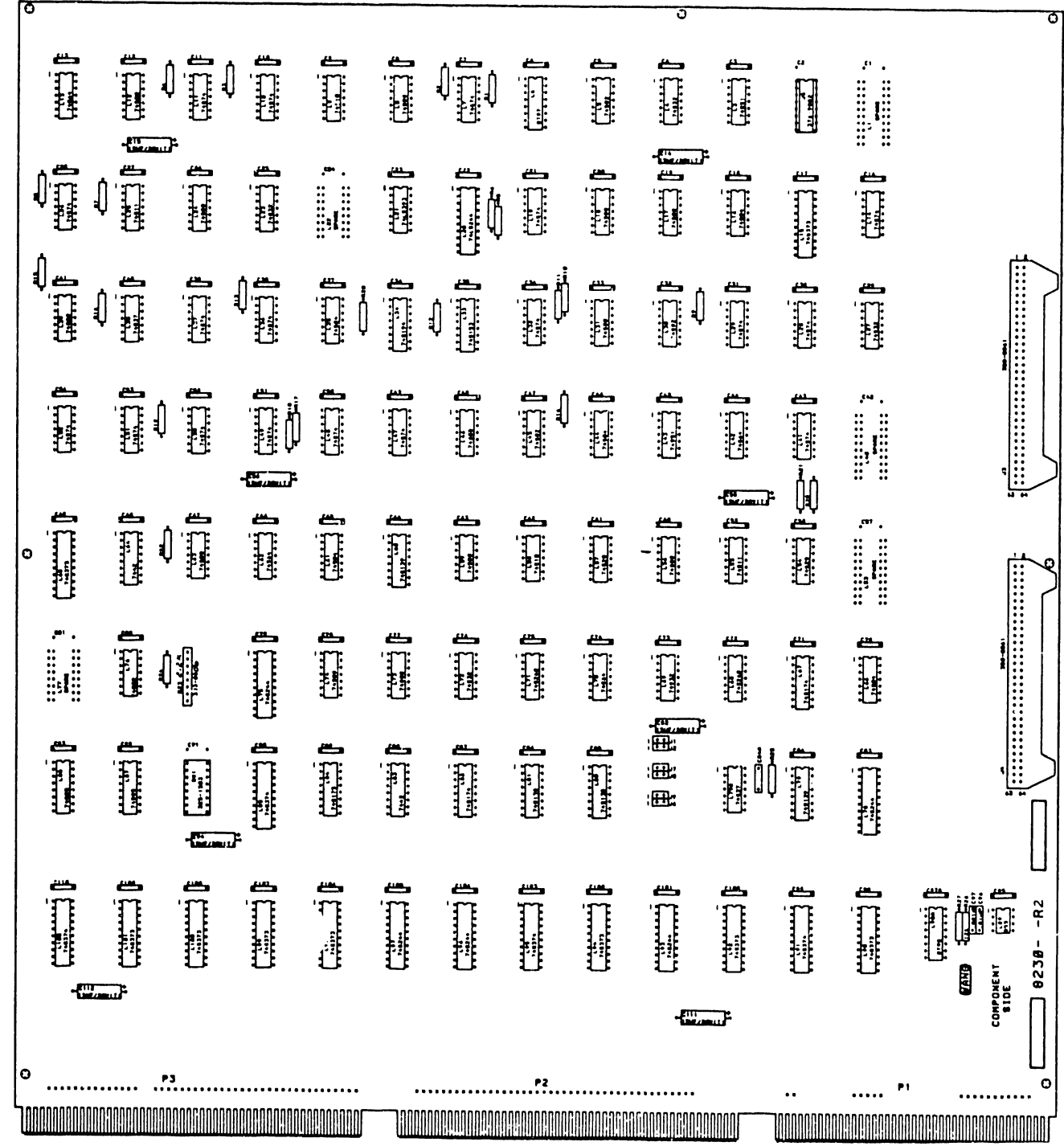
PAGE 2 (33)

REV	DESCRIPTION
1	ISSUED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED

<b>WANG</b> WANG LABORATORIES, INC. LOWELL MAUSA		BY	DATE	APPROVED BY	DATE
MATERIAL		DWNS		LENGR	
MODEL NO. V100A		CHK		WENGR	
SEE ENG'G SPECIFICATIONS		TITLE		MFG'ENGR	
FINISH		SCALE		REV	
TOL. IN. AS NOTED		D			
RIP. 0.010 FRACTIONAL		WANG PART NUMBER		SIZ	
RIP. 0.005 ANG. 1:30 FINISH		SIZ		DRAWING NUMBER	
SCALE		SHEET 4 OF 7		REV	

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND ARE PROPRIETARY TO WANG LABORATORIES INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES INC.

DO NOT SCALE



NO	REVISION

SEE SHEET 7

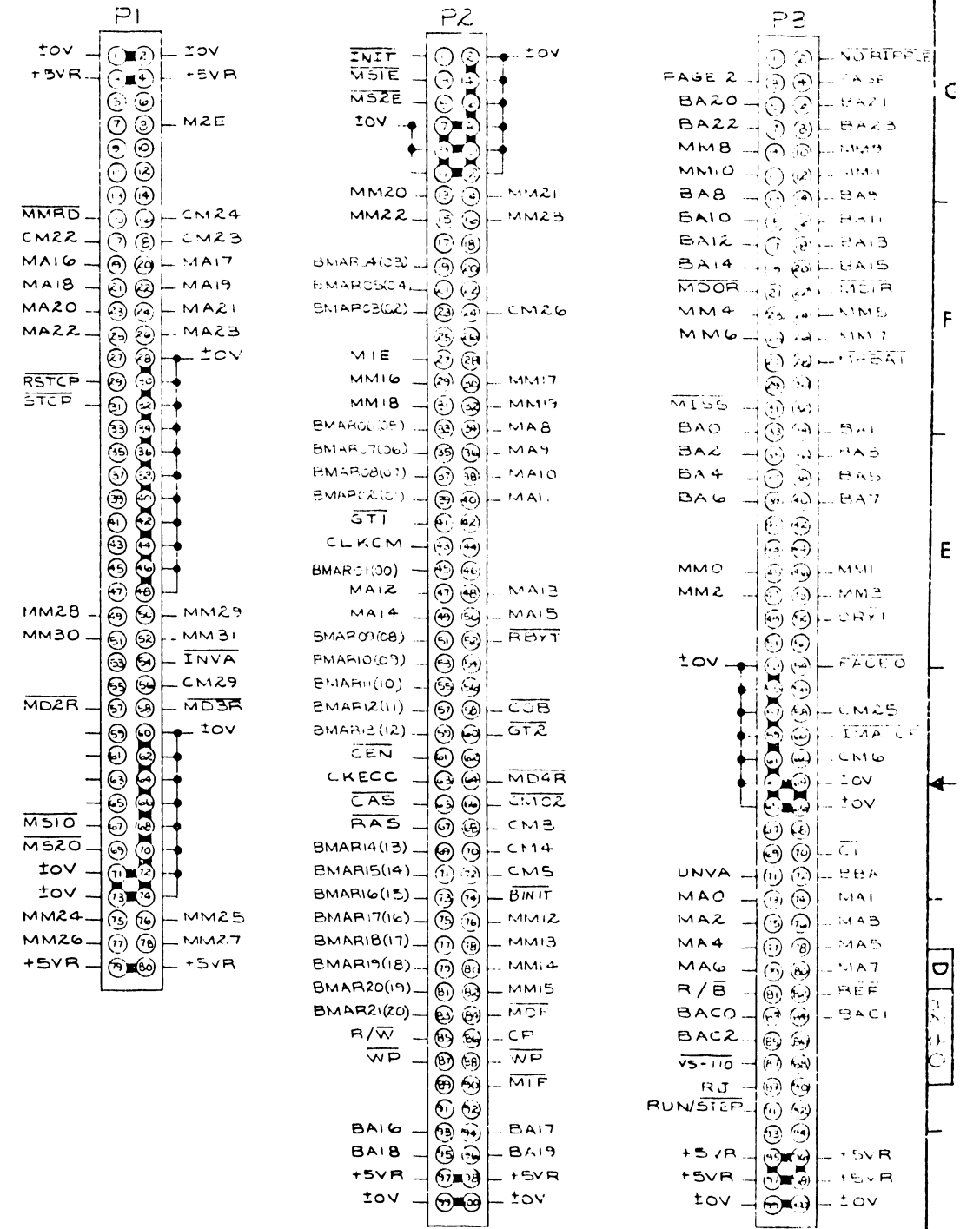
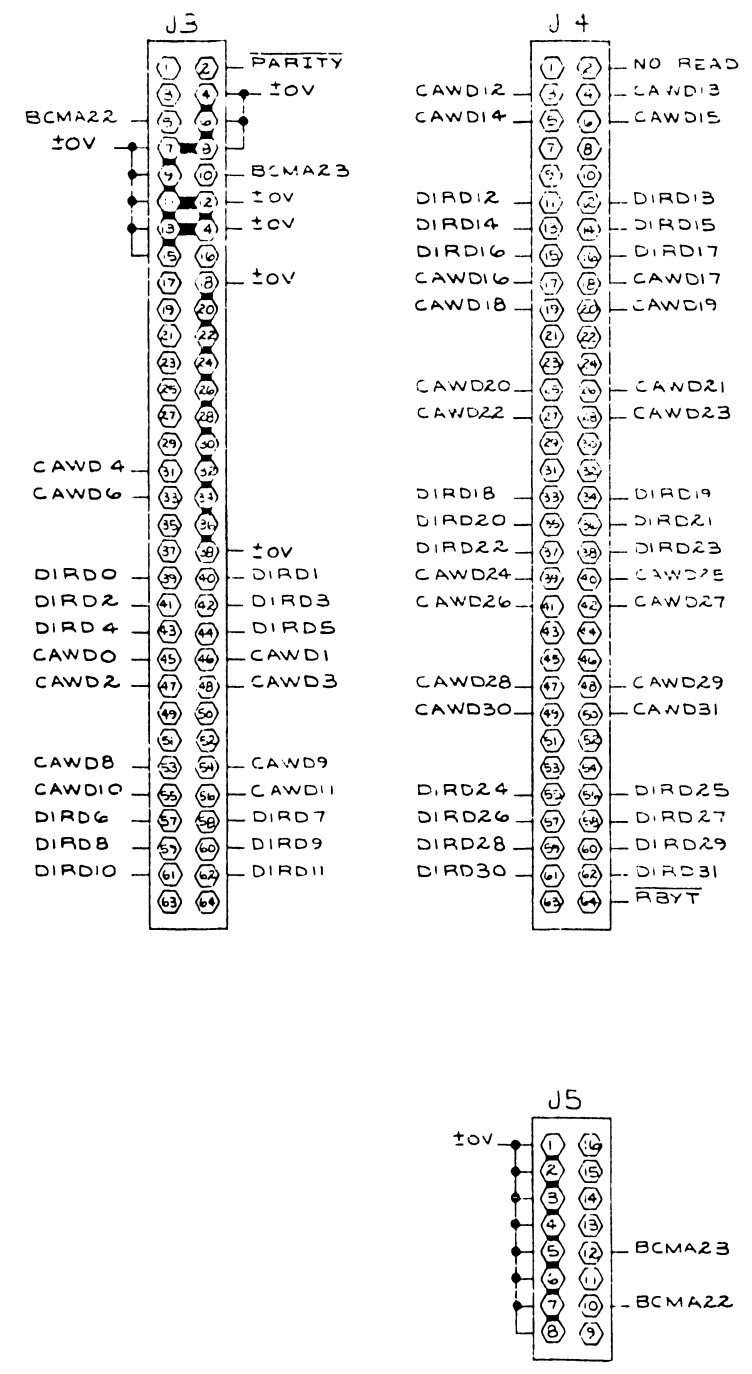
		BY	DATE	APPROVED BY	DATE
		DWN X THORSON	2-8-62	E ENGR	
MODEL NO P102A VS-95 SEE ENGR SPECIFICATIONS No. _____		TITLE			
		MEMORY CONTROLLER MULTILAYER BOARD			
FINISH TOL AS NOTED .01 ± FRAC = FINISH .01 ± ANG = FINISH SCALE 1" = 7"		210-8230	D	8230	3
		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

8230

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL POSSESSION OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

G  
F  
E  
D  
C  
B  
A

NO.	REVISION	DATE
	SEE SHEET 7	



WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
<b>WANG</b>	WANG LABORATORIES, INC. LOWELL, MASS.		DWN		ENG	
MATERIAL	MODEL NO. 72A		CHK		MENGR	
FINISH	SEE ENG. SPECIFICATIONS		TITLE: MULTILAYER BOARD			
TOLERANCES AS NOTED SEE DIMENSIONS FOR FINISH		SCALE: 1:1	DR: 10	D: 10	REV: 1	
SCALE: 1:1		SHEET 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.

11 10 9 8 7 6 5 4 3 2 1

11 10 9 8 7 6 5 4 3 2 1

TO ORDER BY THE CUSTOMER, THESE  
DRAWINGS MUST BE ACCOMPANIED BY  
A CHECK FOR PAYMENT. THE CUSTOMER  
MUST ALSO FURNISH THE PARTS LIST  
AND THE DEMAND OF RANGE, LABOR RATE  
AND THE DEMAND OF RANGE, LABOR RATE  
AND THE DEMAND OF RANGE, LABOR RATE

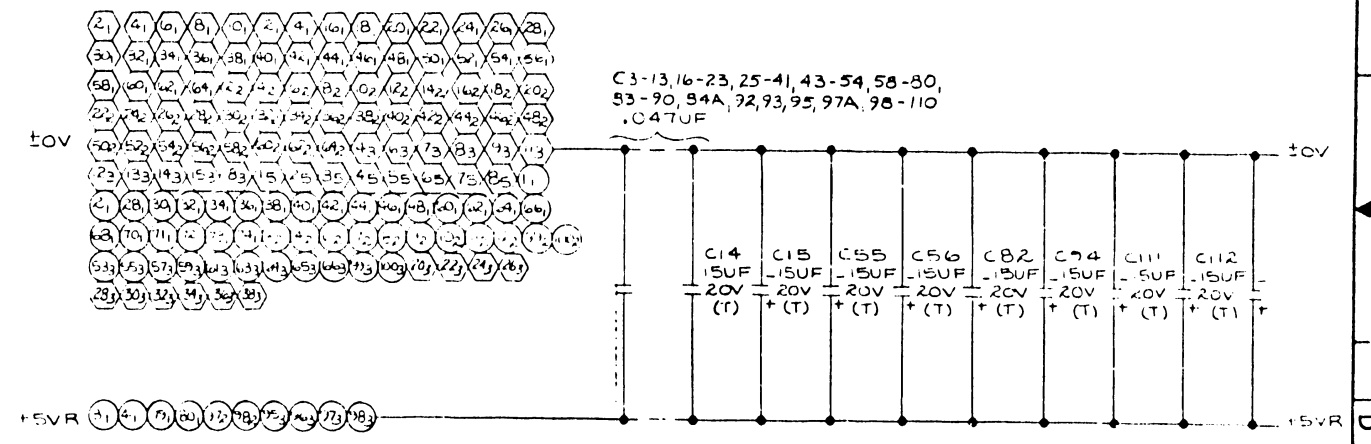
ZIC LOCATION	TYPE	WANG PART NO.
15, 45		
2, 12, 13, 14, 15	745373	396-0306
17, 18		396-0304
14, 23, 27, 28, 32	745372	396-0206
15, 30, 45, 76	745371	396-0199
16	8797	396-0184
17, 18, 19, 20, 28, 29, 32, 36, 37, 4, 47, 52, 54	745374	396-0202
18, 22, 43, 77	SPARES	
19, 2, 7, 31, 37		
20, 21, 72	74500	396-0228
23, 58	74510	396-0238
24, 42, 42, 70	74504	396-0201
26, 33, 44, 21, 66	74504	396-0337
28, 24, 46, 63, 74	74508	396-0200
30	745244	396-0223
L21	745373	396-0307
L22A	8798	396-0185
L25, 58	74511	396-0237
L33	745153	396-0215
L34	745194	396-0221
L38, 77A	74537	396-0276
L54, 57	74520	396-0230
L60, 79	745139	396-0333
L64, 63	7442	396-0208
L67, 82	745174	396-0247
L68, 7	745260	396-0206
L75, 13, 33, 36, 47	745244	396-0338
L87, 53	74585	396-0259
L89, 81	74538	396-0278
L84	74575	396-0270
L85, 3, 35, 42	745374	396-0305
L89	555	396-0126

COMPONENT	TYPE	WANG PART NO.
R22, 45, 27, 28	RES	396-0306
R23	RES	396-0306
R24	2K 5% 1/4W	396-0208
C24, 45, 77, 78	SPARES	
C3-13, 16-23, 25-41, 43-54, 58-80, 83-90, 94A, 92, 93, 95, 97A, 98-110	.047UF 50V	300-1966
C4, 5, 55, 56, 82, 94, 111, 2	5UF 20V (1)	300-4022
C96	.01UF 25V	300-873
C97	.001UF 500V	300-806
J1, 2, 6, 7, 8, 9	2PIN HEADER	350-0203
U14	4PIN SOCKET	450-101
U5	6 PIN SOCKET	470-1002
	CONTACTS	350-4236
SW1	1/2T BRNS.	325-303
	FRIL	470-1002
	SPARE	100-100

MNEMONICS	COORD
BA0-BA23	2D1
BAC0-BAC2	1B1
BAW00-BAW031	4A11
BBA	3A7
BCMA22	2C1
BCMA23	2C1
BMAP, 203-EMAR, 22	2D1
CM22	1D11
C1	3E1
CAS	3F1
CAW00-CAW031	4B11
CEN	3F1
CKECC	1G1
CLKCM	3F1
CM02	1F11
CM3-CM6	1F11
CM23	1D11
CM24-CM26	1F11
COB	3G11
CP	3A7
CM29	1G1
CRDO-CR031	4E10
CRY1	3C1
ST1	3A11
GT2	1D11
IMA-CP	1F11
INIT	1S
INVA	2C1

MNEMONICS	COORD
NO READ	2A4
NO RIPPLE	4A4
PAGE 0	4G5
PAGE 1	4D11
PAGE 2	4C11
PARITY	3G5
RAS	3F1
R/B	3C1
RBYT	4C1
REF	3C1
RSTCP	4B11
RUN/STEP	3A11
R/W	3G1
STCP	4B1
UNVA	2A4
WP	3E1

ZIC TYPE	LOC.	IPAPES
74502	L76	2
	L5	2
74503	L24	1
74510	L9	1
74511	L25	1
74520	L54	1
74532	L4	1
	L69	1
	L72	2
745244	L78	1
745260	L68	1
	L71	1
74500	L12	1
	L17	3
	L39	1
74537	L38	1
	L79A	2

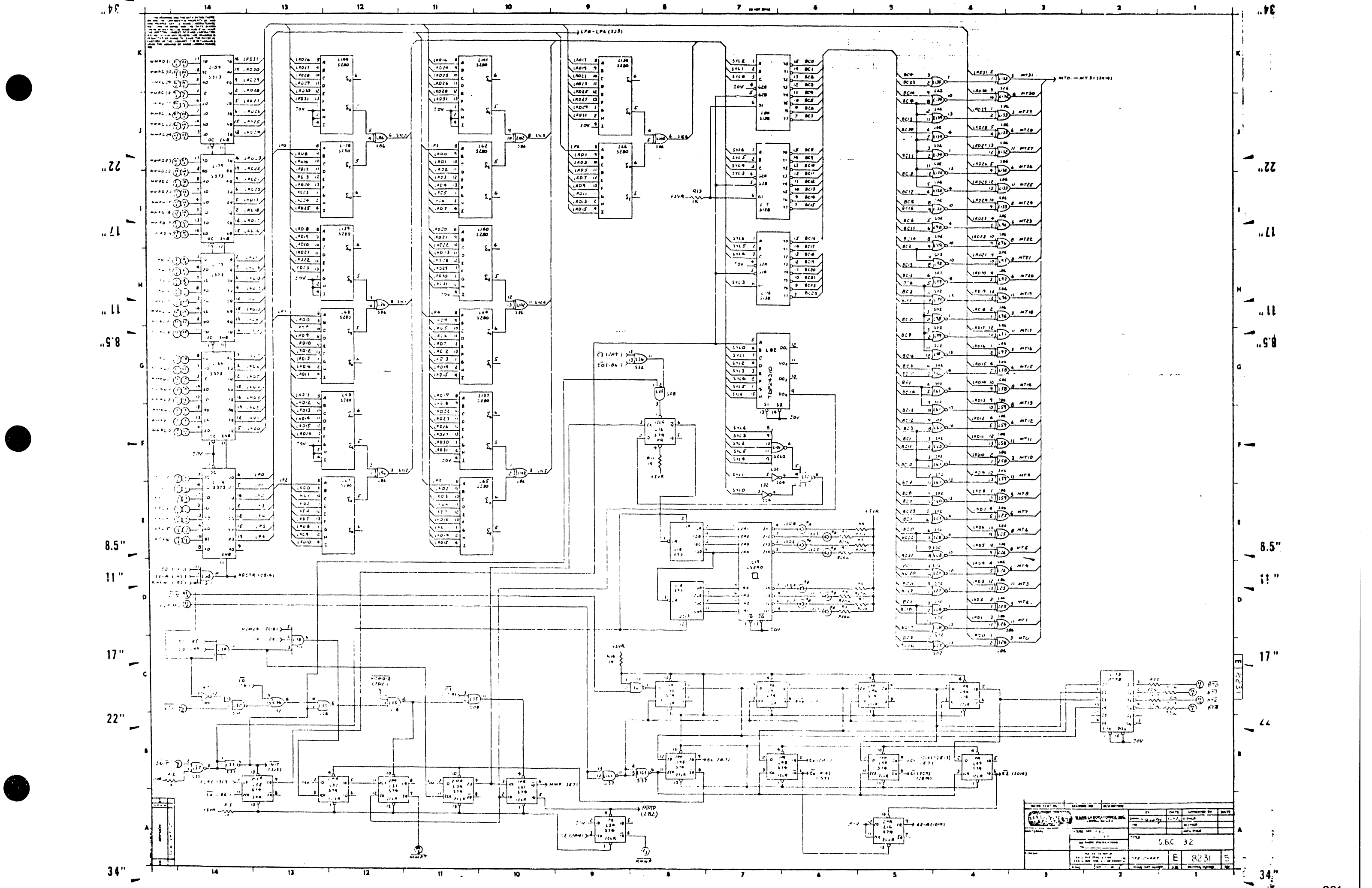


NOTES:  
1. ALL RESISTORS ARE 1/4WATT 5% UNLESS OTHERWISE SPECIFIED.  
2. SIGNAL NAMES IN PARENTHESES DENOTE SIGNALS FOR VS-110 USAGE.

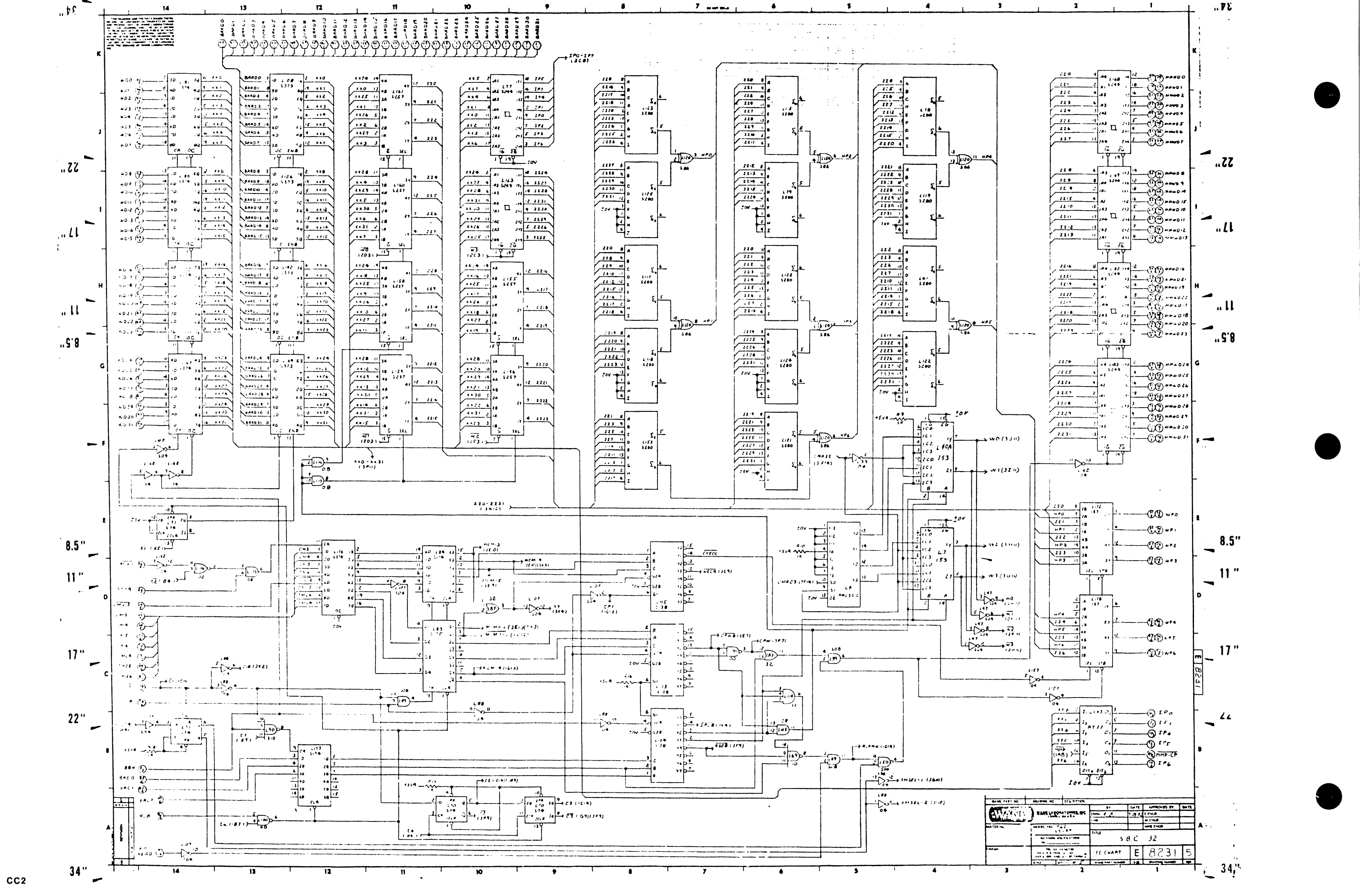
E-REV  
0

REVISION	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			DWN		ENR	
			CHR		ENR	
					MFG ENR	
MATERIAL	MODEL NO.	1000A	TITLE: MULTILAYER BOARD			
	SEE ENG SPECIFICATIONS					
FINISH	TOL. EX. AS NOTED		1000A	D	5-10	5
	RA = 0.10 FRAC					
	SEE ENG SPEC. FOR FINISH					
	SCALE: 1:1					
	SHEET 7 OF 7					



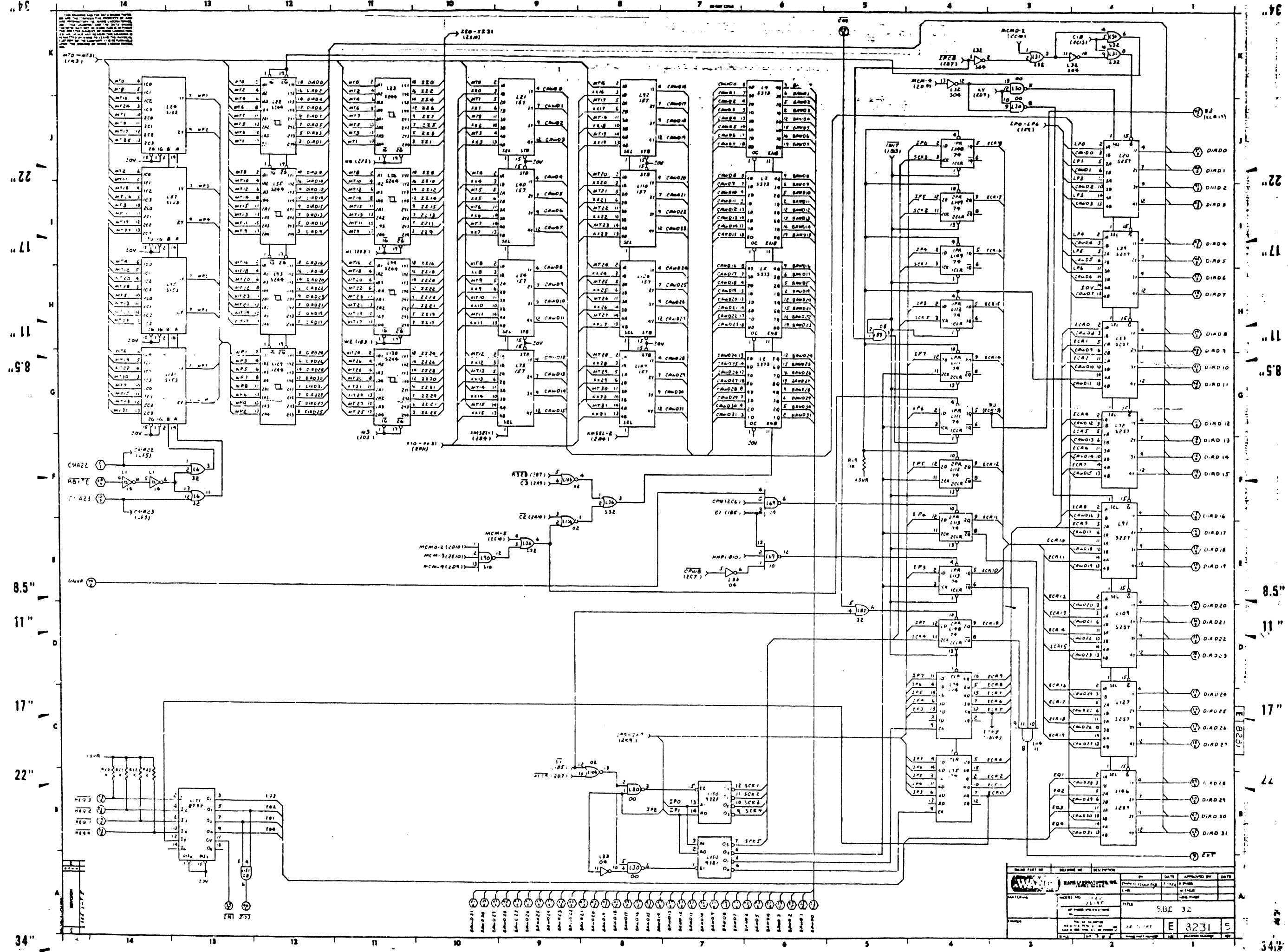
REV	DATE	APPROVED BY	DATE
1			
TITLE: SBC 32			
NO. OF SHEETS	TOTAL NO. OF SHEETS		
1	5		
DESIGNED BY: [Name]		CHECKED BY: [Name]	
DRAWN BY: [Name]		APPROVED BY: [Name]	



DATE	BY	APPROVED BY	DATE
11/11/71	J. E. FINGER		
11/11/71	M. J. HENNER		
11/11/71			
11/11/71			

PROJECT NO.	8231
TITLE	SBC 32
ISSUE NO.	1
DATE	11/11/71
BY	J. E. FINGER
APPROVED BY	
DATE	

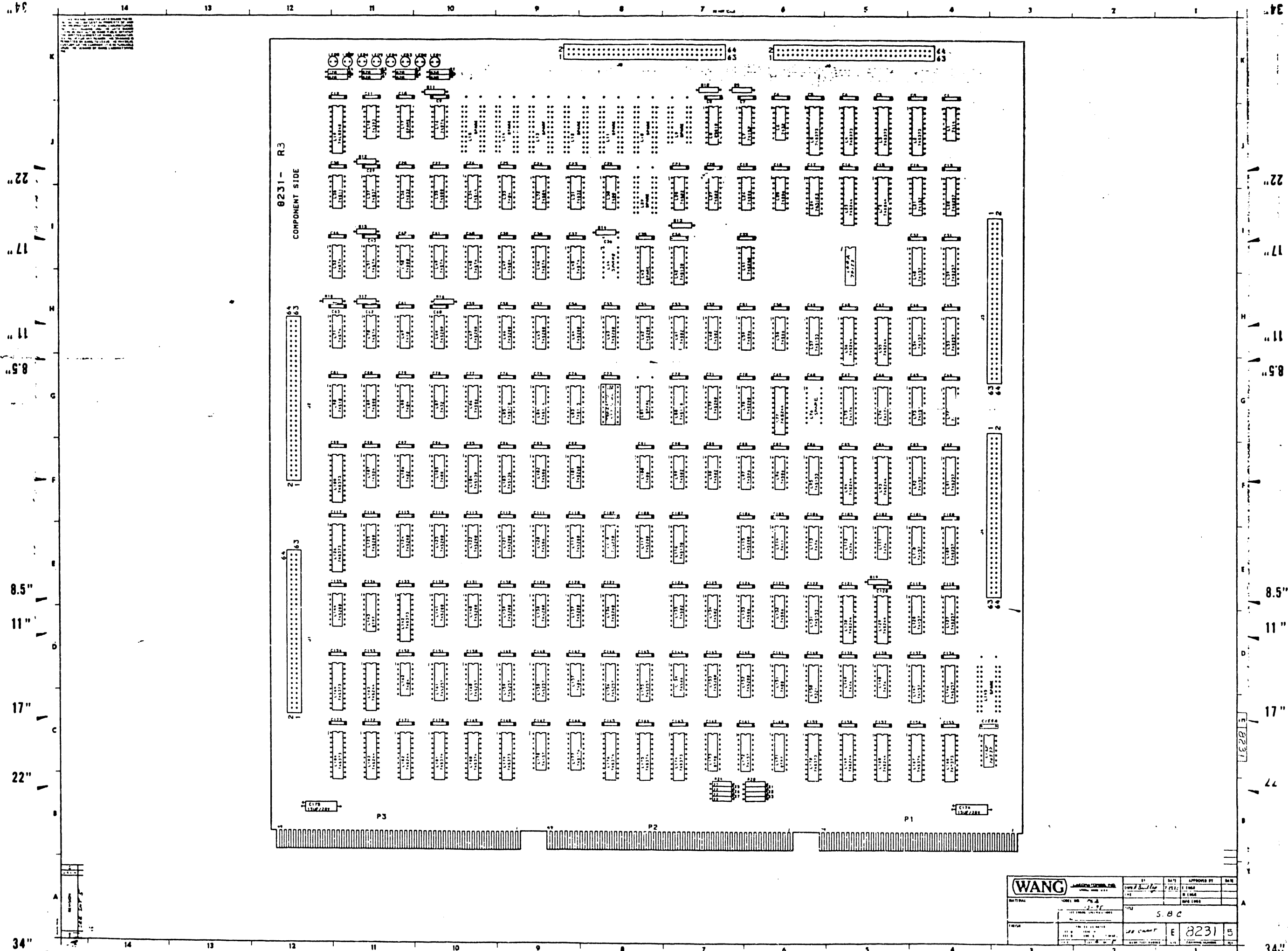


DESIGN NO.	REV.	DATE	APPROVED BY	DATE
8231	5			

NO.	DESCRIPTION	DATE	BY	APPROVED BY	DATE
1	ISSUED FOR CONSTRUCTION	7/1/58	J. P. HARRIS		
2	REVISION				
3	REVISION				
4	REVISION				
5	REVISION				





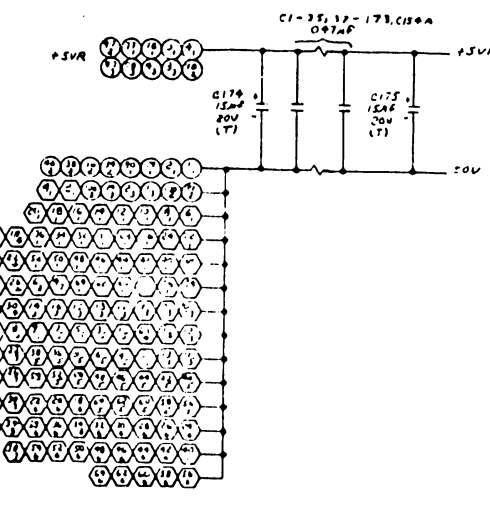
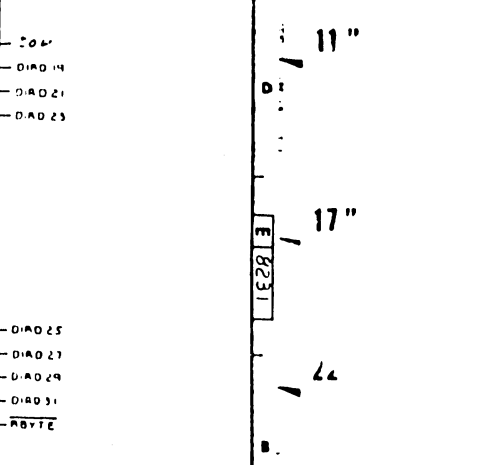
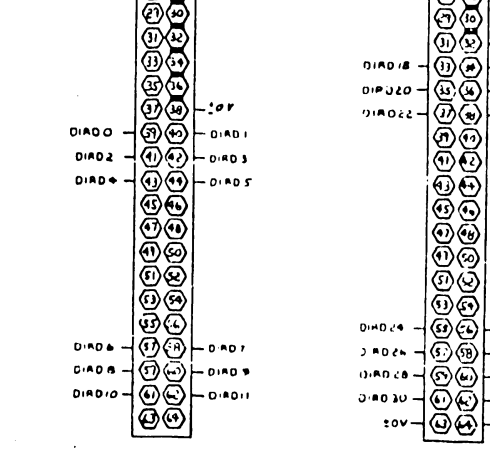
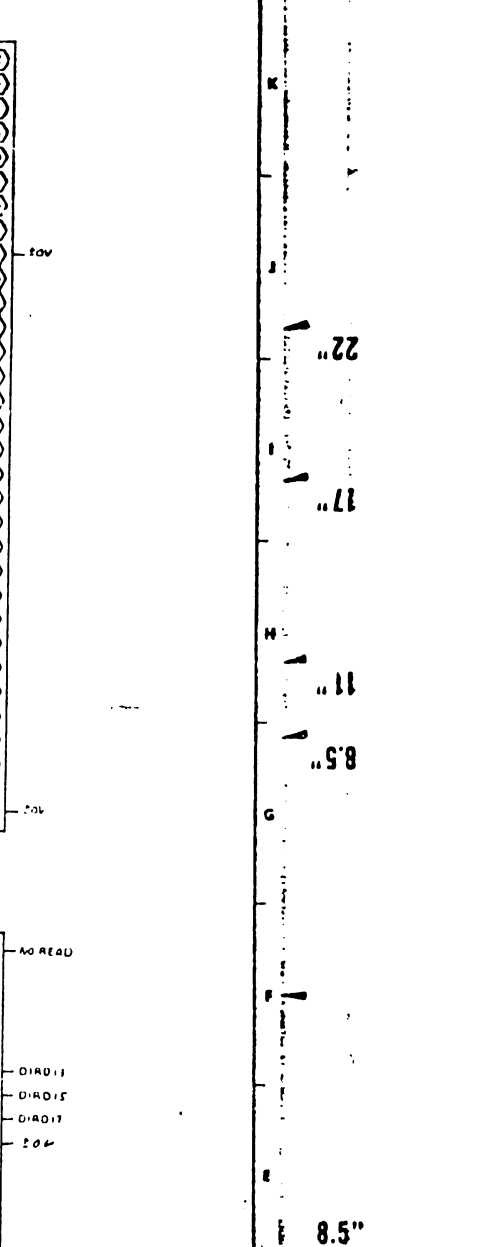
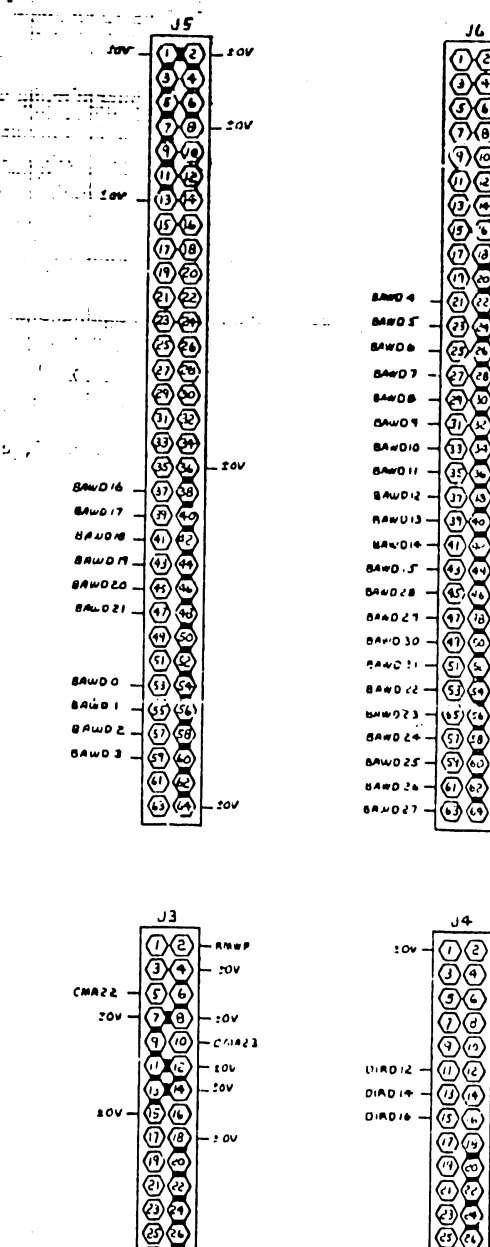
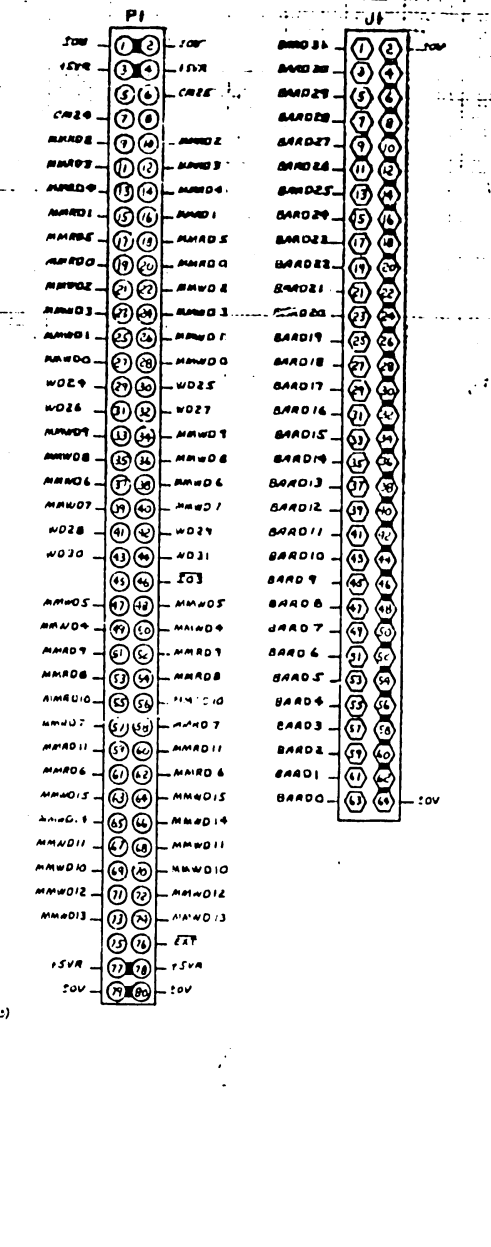
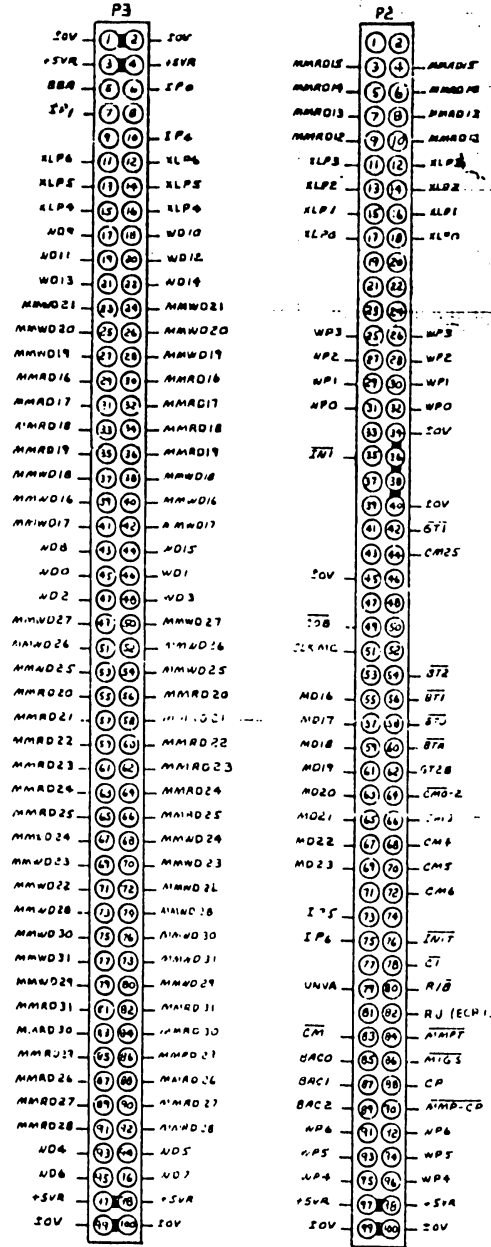
<b>WANG</b>		DATE	APPROVED BY	REV
8231		1/15/68	SBC	1
SBC				
E 8231				

Table with columns: P.C. DESCRIPTION, TYPE, PL. PART NO. Contains detailed component information for various parts like resistors and capacitors.

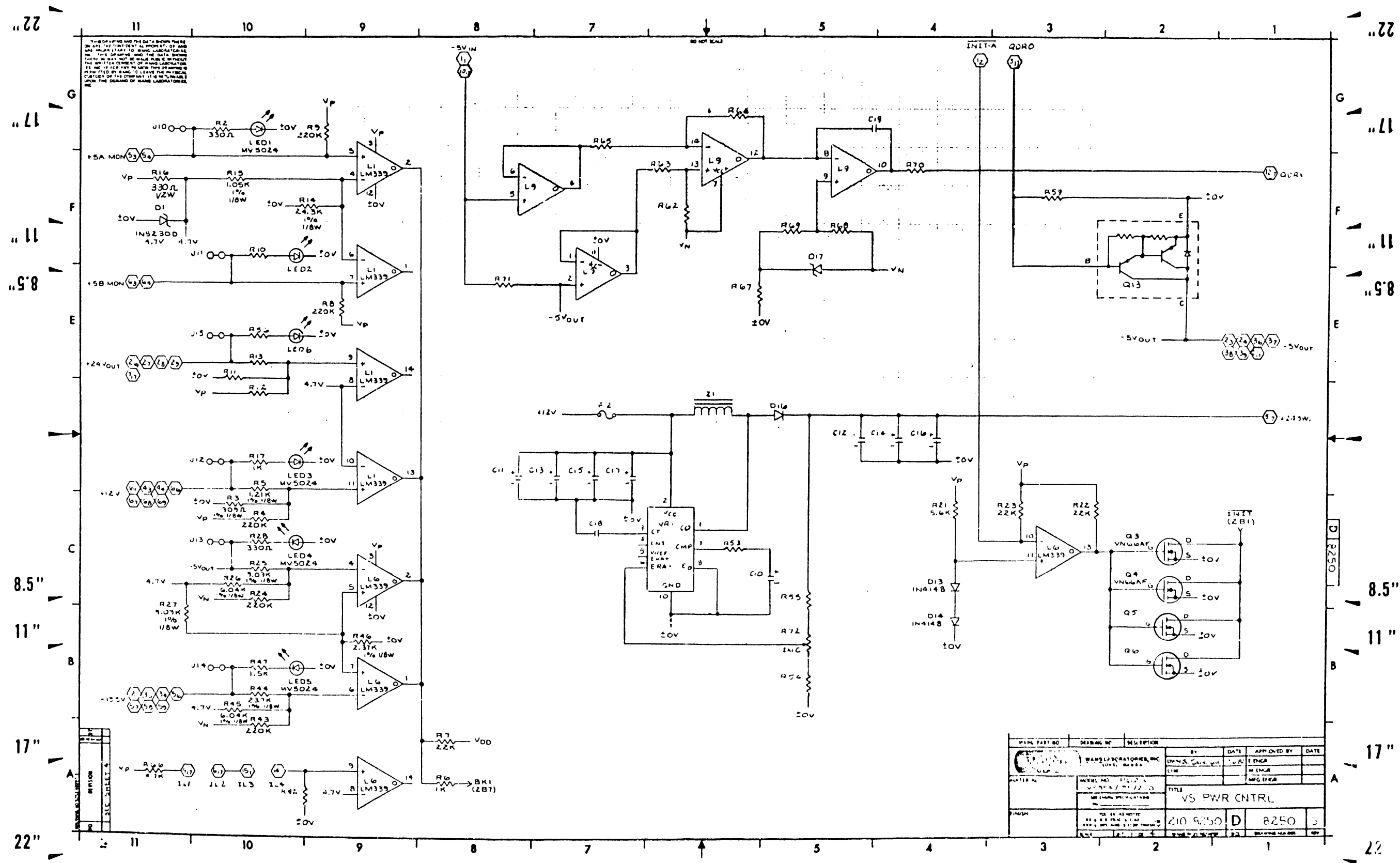
Table with columns: COMMENT, TYPE, PL. PART NO. Lists specific components and their types.

Table with columns: TYPE, LOCATION, SPACES. Lists component types and their locations on the board.

Table with columns: Q10, Q07, Q02, Q23, Q231, Q71, Q0A2. Lists specific component identifiers.

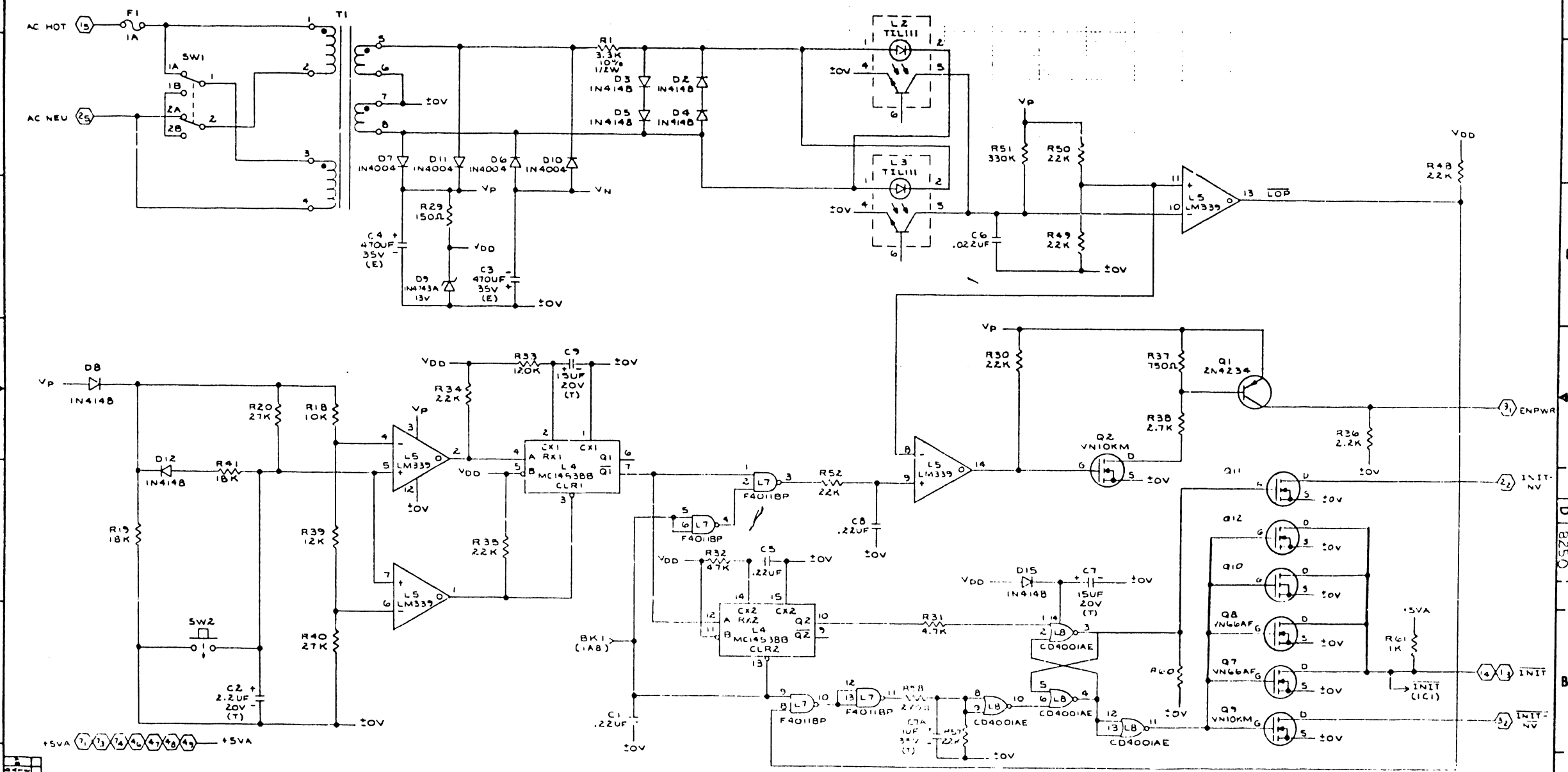


WANG logo and a table with columns: NAME, NO. OF SHEETS, SHEET NO., REVISIONS, DATE, APPROVED BY, DATE. Includes a title 'S.B.C 32' and a reference 'E 2231'.



THIS DRAWING AND THE DATA SHOWN THEREIN ARE THE CONFIDENTIAL PROPERTY OF WANG AND SHOULD NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED BY ANYONE TO LEAVE THE PHYSICAL CONTROL OF THE COMPANY IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

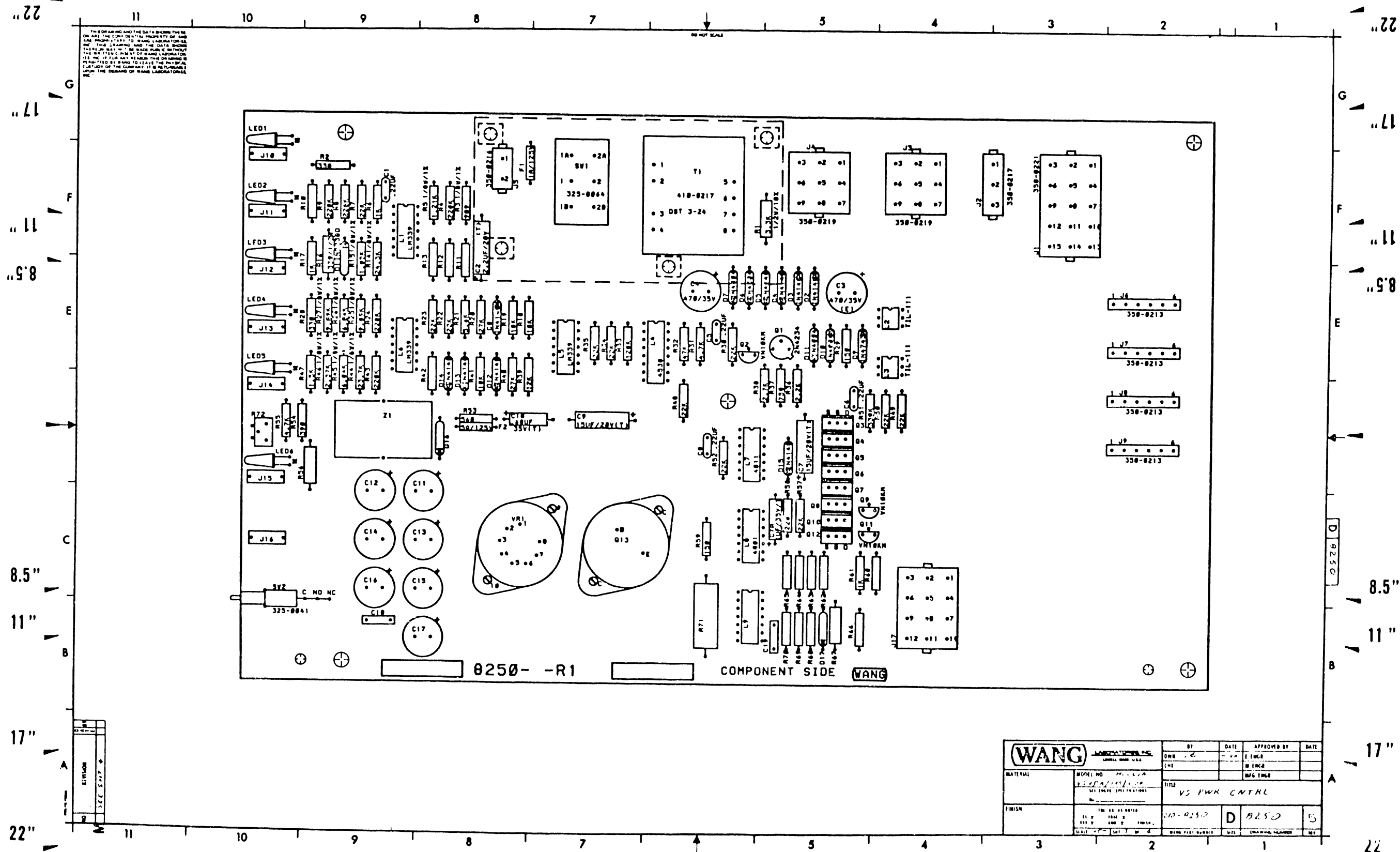
DO NOT SCALE



WANG LABORATORIES, INC.  
200 WEST 42ND STREET  
NEW YORK, N.Y. 10018  
SEE SHEET 4

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
MATERIAL	MODEL NO. 210-A 2555A/2555B/2555C 100 SERIAL OPERATIONS	TITLE
FINISH	TOL. IS AS NOTED SEE 2 DIM. AND 1 DIM. TYPED UNLESS OTHERWISE SPECIFIED	210-8250 D 8250 WANG PART NUMBER

THIS DRAWING AND THE DATA THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT IN CONFIDENTIALITY. NO PART OF THIS DRAWING OR THE DATA THEREON IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. IN ANY CASE, THE REPRODUCTION OR TRANSMISSION OF THIS DRAWING OR THE DATA THEREON IS TO BE LIMITED TO THE PERSONNEL OF THE COMPANY TO WHOM IT IS ISSUED.



<b>WANG</b> LABORATORIES, INC. UNIVERSITY MICROFILMS		BY DWB	DATE 5-11-68	APPROVED BY E ENG	DATE 5-11-68
MATERIAL	WORKING NO. 0250-001	TITLE VS PWR CTRL			
FINISH	DATE 5-11-68	DATE 5-11-68	D 0250	5	

THE DRAWING AND THE DATA SHOWN THERE ON ARE THE PROPERTY OF WARR LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE RIGHTS OF WARR LABORATORIES, INC. IN THIS DRAWING ARE RESERVED. THIS DRAWING IS THE PROPERTY OF WARR LABORATORIES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE RIGHTS OF WARR LABORATORIES, INC. IN THIS DRAWING ARE RESERVED.

COMPONENT	TYPE	WL PART NO.
R1	3.3K 10% 1/2W	331-3033
R2	28 330Ω 5% 1/4W	330-2034
R3	209Ω 1% 1/8W	333-0059
R4,R7	24.43 220K 5% 1/4W	330-5023
R5	1.21K 1% 1/8W	333-0106
R6,17,18	1K 5% 1/4W	330-3011
R7,22,23,30,34,35	2.2K 5% 1/4W	330-4023
R15,27	3.09K 1% 1/8W	333-0061
R4	24.3V 1% 1/8W	333-0135
R5	1.05K 1% 1/8W	333-0127
R16	330Ω 5% 1/2W	331-2034
R8	10K 5% 1/4W	330-4011
R19,8	18K 5% 1/4W	330-4019
R20,40	27K 5% 1/4W	330-4028
R21	5.6K 5% 1/4W	330-3057
R26,45	6.04K 1% 1/8W	333-0094
R29	150Ω 5% 1/4W	330-2016
R31,55,60	4.7K 5% 1/4W	330-3048
R32	47K 5% 1/4W	330-4048
R33	20K 5% 1/4W	330-5013
R36	2.2K 5% 1/4W	330-3023
R37	750Ω 5% 1/4W	330-2076
R38	2.7K 5% 1/4W	330-3028
R39	12K 5% 1/4W	330-4013
R44	23.7K 1% 1/8W	333-0121
R46	2.37K 1% 1/8W	333-0093
R47	1.5K 5% 1/4W	330-3016
R51	330K 5% 1/4W	330-5034
R8	120Ω 5% 1/4W	330-2023
R54	370Ω 5% 1/4W	330-2040

COMPONENT	TYPE	WL PART NO.
C1,5,8	.22UF .00V	300-1926
C2	2.2UF 20V(L)	300-4014
C3,4	470UF 35V (E)	300-3322
C6	.022UF 100V	300-1927
C7,9	15UF 20V (T)	300-4022

COMPONENT	TYPE	WL PART NO.
C7A	1UF 35V (T)	300-4000
D1	1N5230D 4.7V	380-2147
D2-5,8,12-15	1N4148	380-1014
D6,7,10,11	1N4004	380-4000
D9	1N4743A 13V	300-2113

COMPONENT	TYPE	WL PART NO.
Q1	2N4234	375-1024
Q2,9,11	VN10KM	375-1115
Q3,7,8	VN66AF	375-1125

COMPONENT	TYPE	WL PART NO.
LED1,2,4,5	MV5024	370-0026

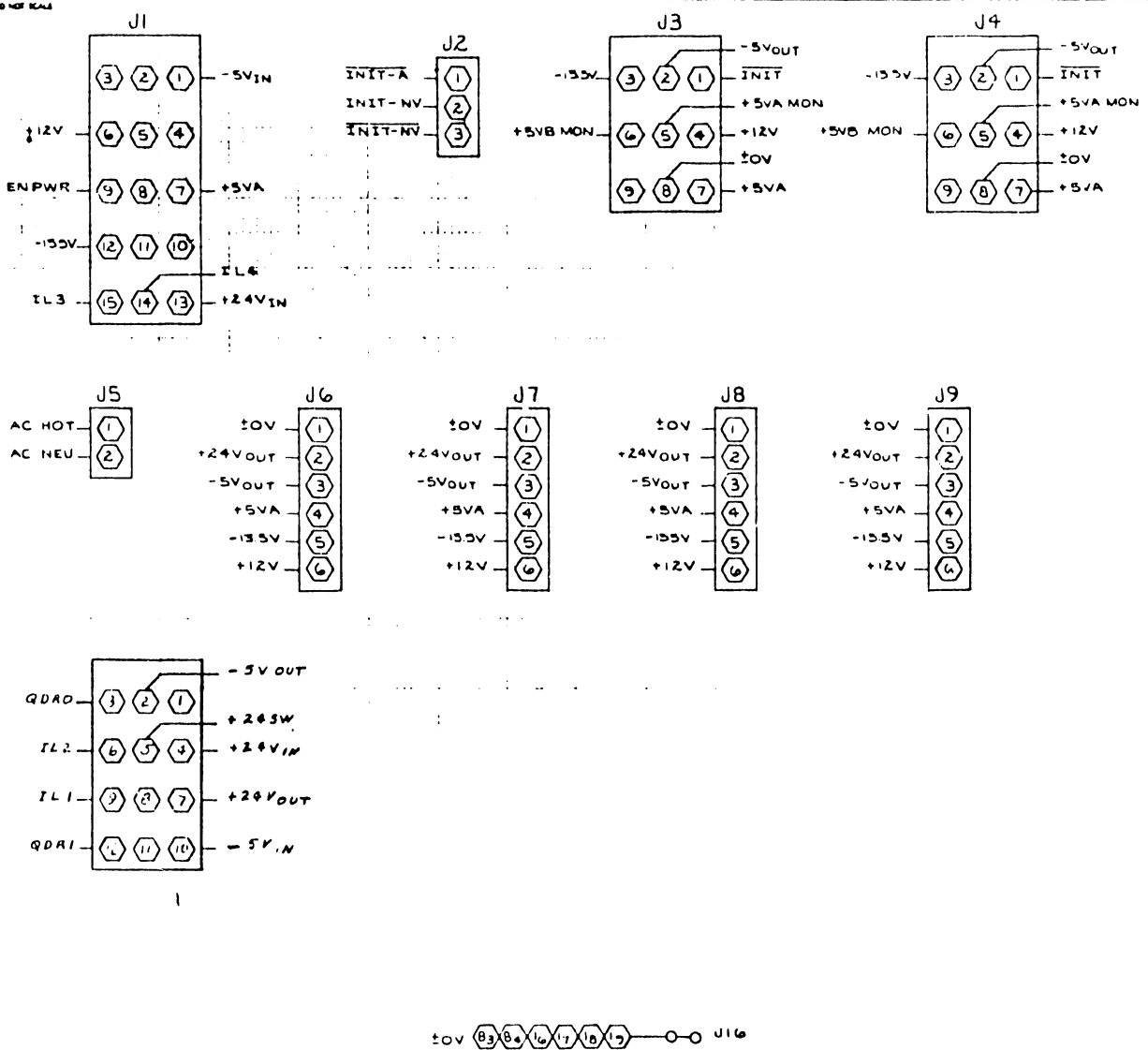
COMPONENT	TYPE	WL PART NO.
F1	1 AMP PICC	360-1154

COMPONENT	TYPE	WL PART NO.
SW1	220/115 VAC SLIDER	325-0064
SW2	SPDT P.B.	325-0041
T1	KFMR 115/230V	410-0217

COMPONENT	TYPE	WL PART NO.
J1	5 PIN CONN.	350-0221
J2	3 PIN CONN.	350-0217
J3,4	9 PIN CONN.	350-0219
J5	2 PIN CONN.	350-0216
J6-9	6 PIN CONN.	350-0216
U10,13,14	TEST POINTS	645-0013
U16	TEST POINTS	645-0013

I.C. LOCATION	TYPE	WL PART NO.
L1,5,6	LM339	376-0240
L2,3	TL111	375-2109
L4	MC14538B	376-0459
L7	F40113P	376-0375
L8	CD401AE	376-0367

MNEMONICS	COORD
AC HOT	Z611
AC NEU	ZF11
ENPWR	ZD1
IL1	IA11
IL2	IA10
IL3	IA10
IL4	IA10
INIT	ZB1
INIT-A	IG4
INIT-NV	ZB1
INIT-NV	ZC1
QOR1	IF1
QOR0	IG3
-5VIN	IG8
-5VOUT	IE1
-15.5V	IB11
+5VA	ZB11
+5A MON	IF11
+5B MON	IE11
+12V	IC11
+24.5V	ID1
+24VIN	ZA11
+24VOUT	IE11

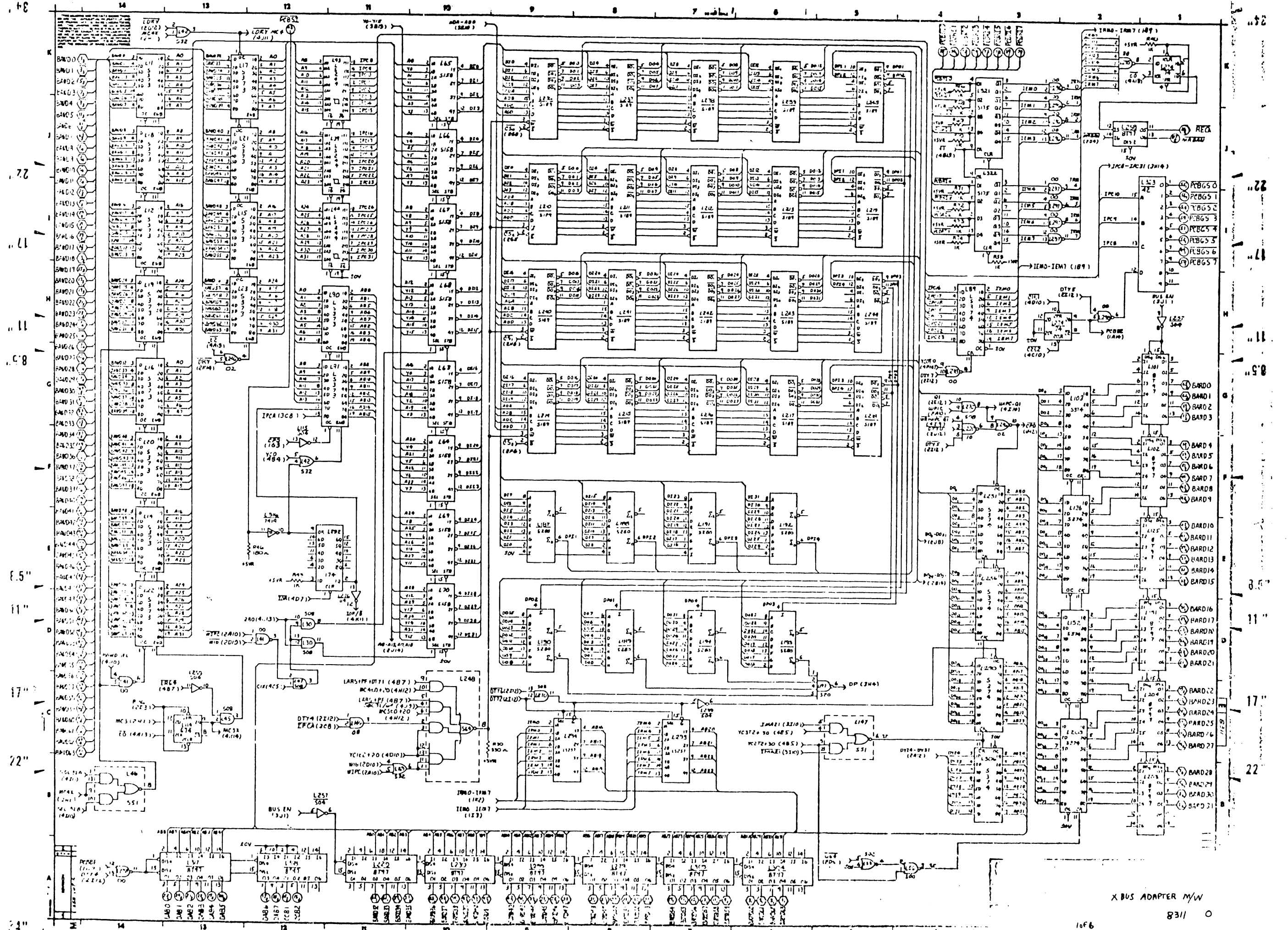


NOTE: ALL RESISTORS ARE 5% 1/4W UNLESS OTHERWISE SPECIFIED.

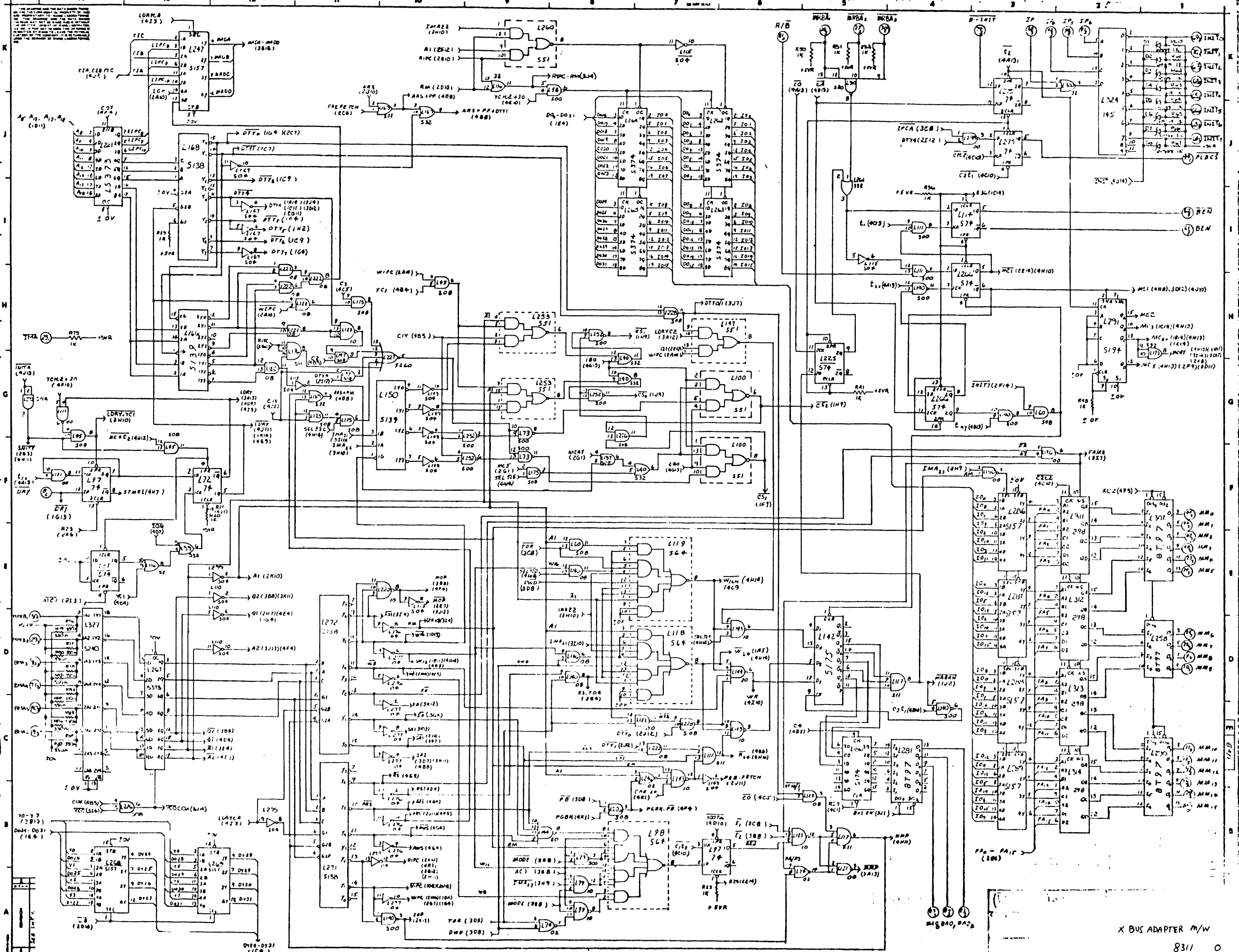
REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

E-REV  
0

WARR PART NO.	DESIGN NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
WARR LABORATORIES, INC. LOWELL, MA 01854			DAVID S. GILBERT	1/1/78	LENGA D. REYER	1/1/78
MATERIAL			CHR. D. TIC	L. J.	ENGINEER	
FINISH						
TITLE			VS PWR CNTRL			
PART NO.			210 8250	D	8250	3

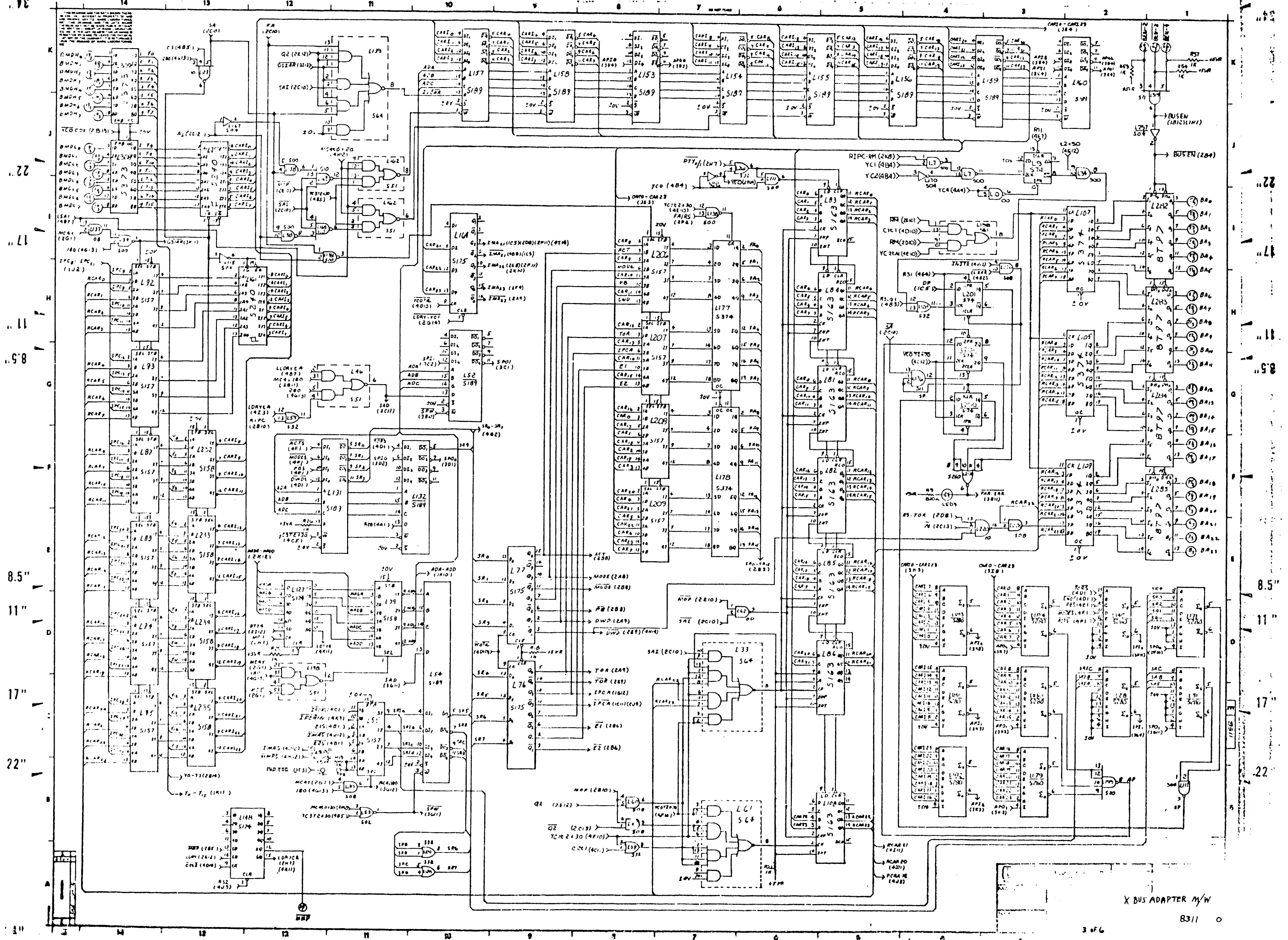


X BUS ADAPTER M/W



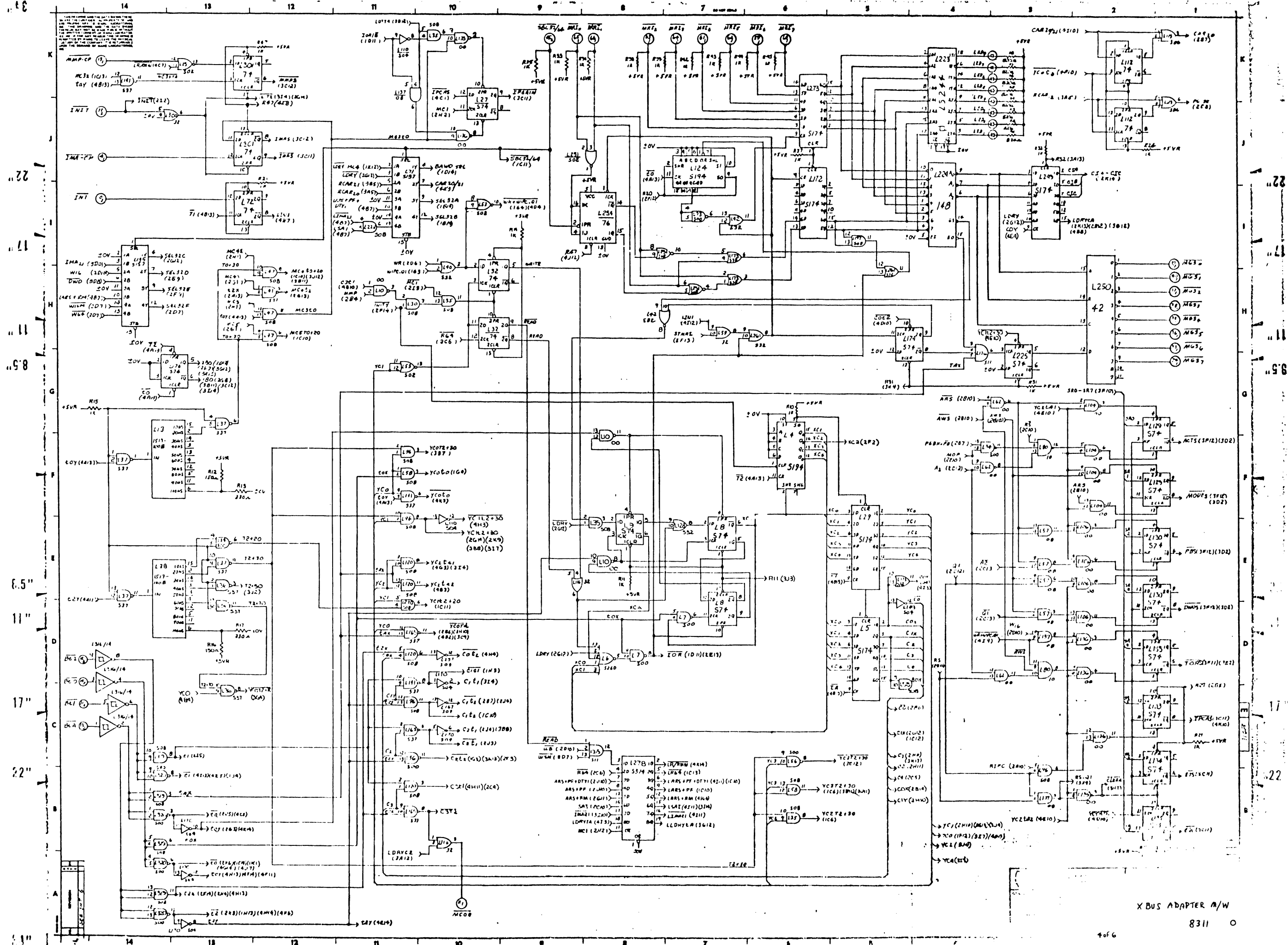
X BUS ADAPTER M/W





X BUS ADAPTER M/W

8311

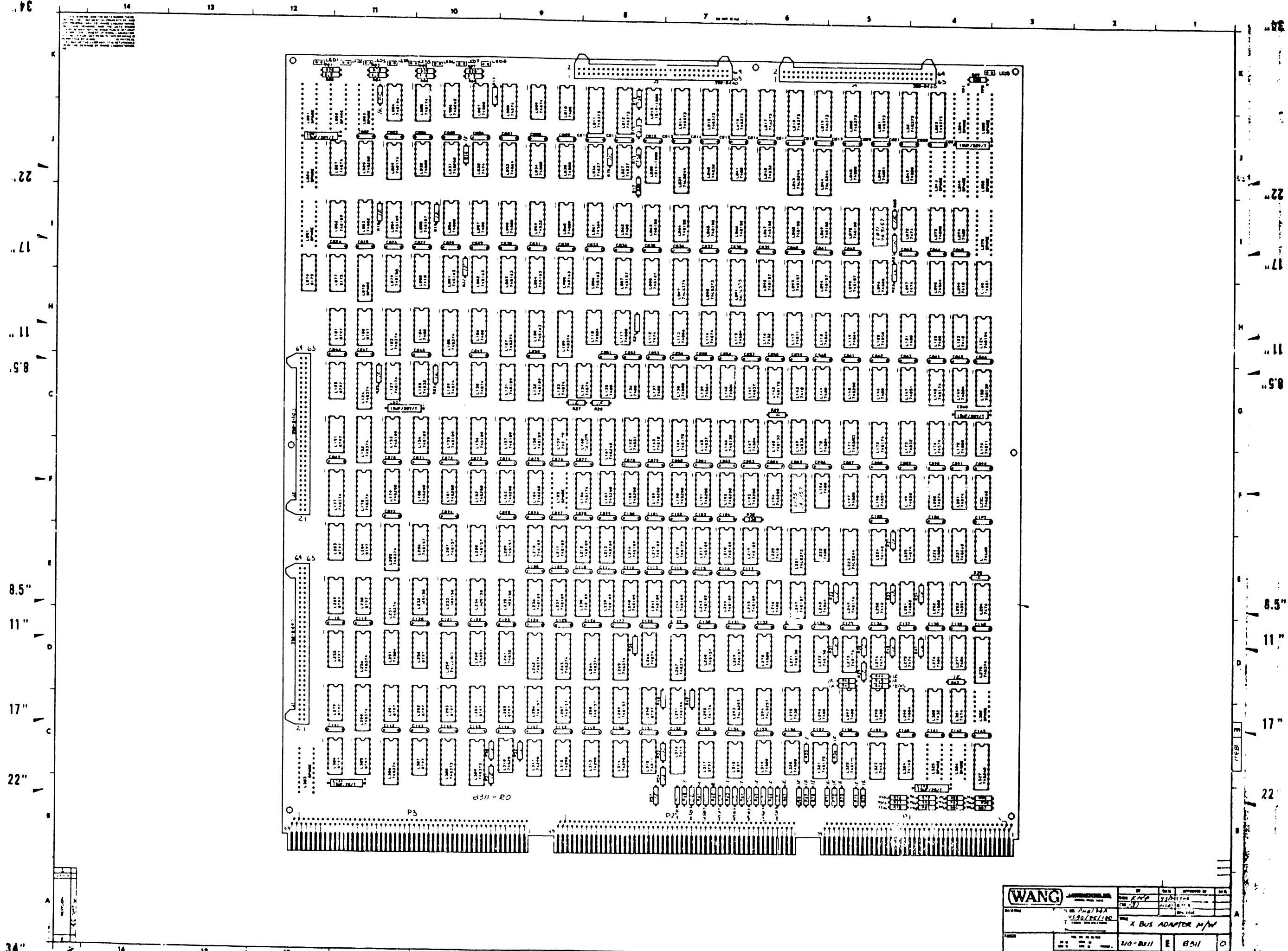


X-BUS ADAPTER A/W

8311

4 of 6

EE4



14  
 13  
 12  
 11  
 10  
 9  
 8  
 7  
 6  
 5  
 4  
 3  
 2  
 1

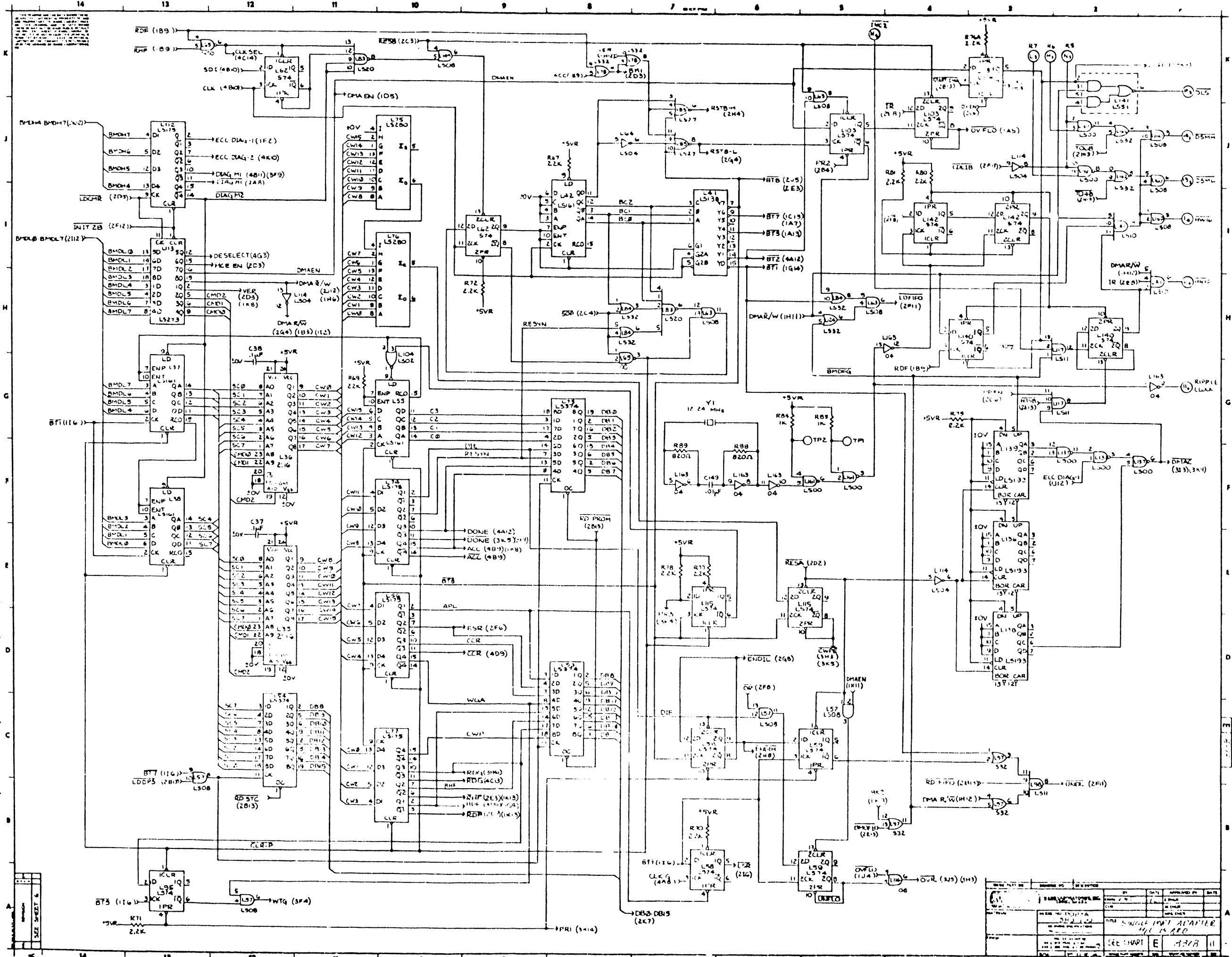
34"  
 22"  
 17"  
 11"  
 8.5"  
 8.5"  
 11"  
 17"  
 22"  
 34"

34"  
 22"  
 17"  
 11"  
 8.5"  
 8.5"  
 11"  
 17"  
 22"  
 34"

REV	DATE	BY	CHK

<b>(WANG)</b>		DATE	APPROVED BY
220-B311 X BUS ADAPTER H/W			
NO. OF SHEETS	210-B311	E	B311
NO. OF THIS SHEET			





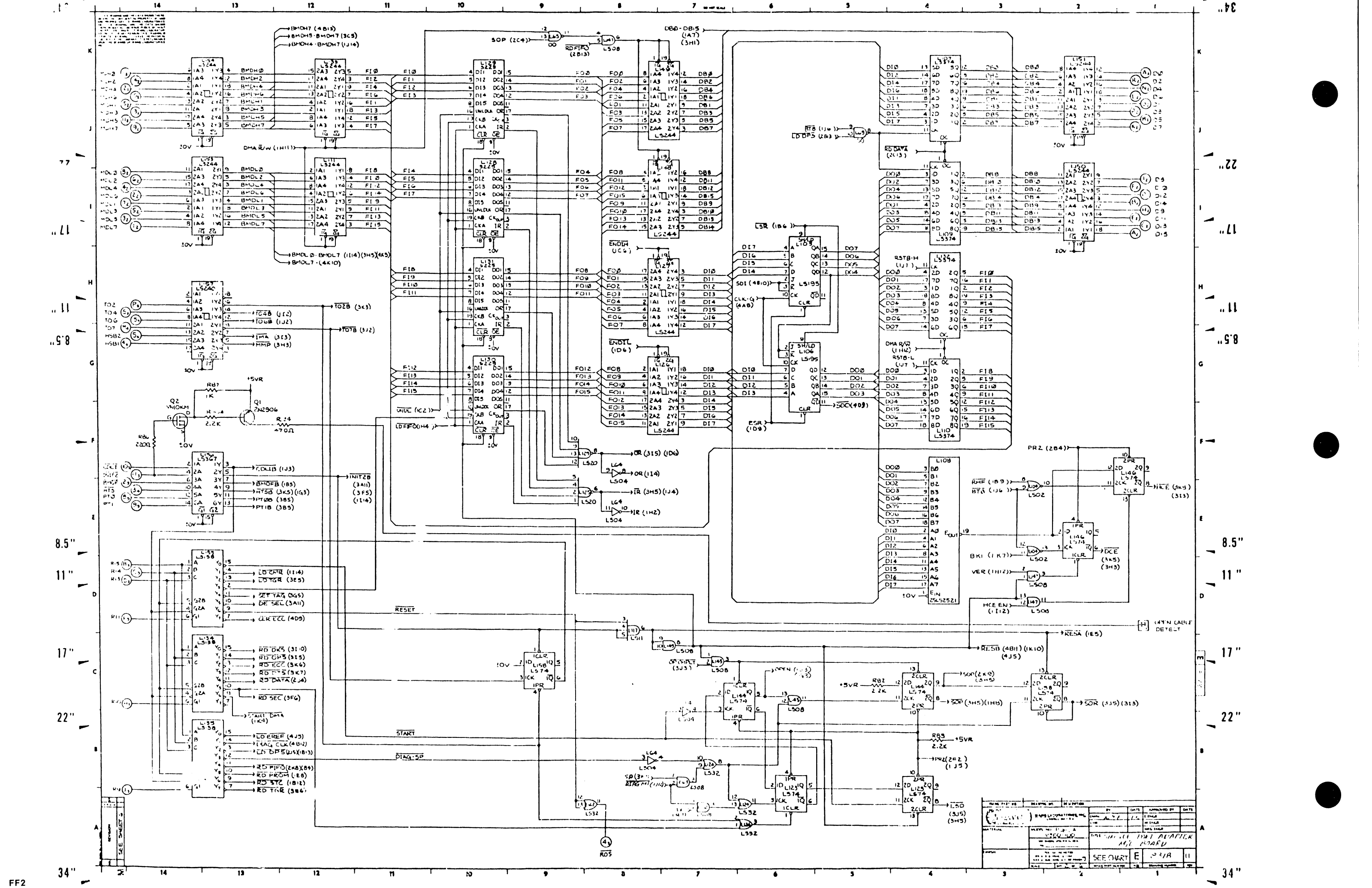
REV	DATE	BY	APPROVED BY
1			

REV	DATE	BY	APPROVED BY
1			

TITLE: SINGLE INPUT ADAPTER  
 FILE: M.A.R.O.  
 SEE CHART: E  
 PART: 11

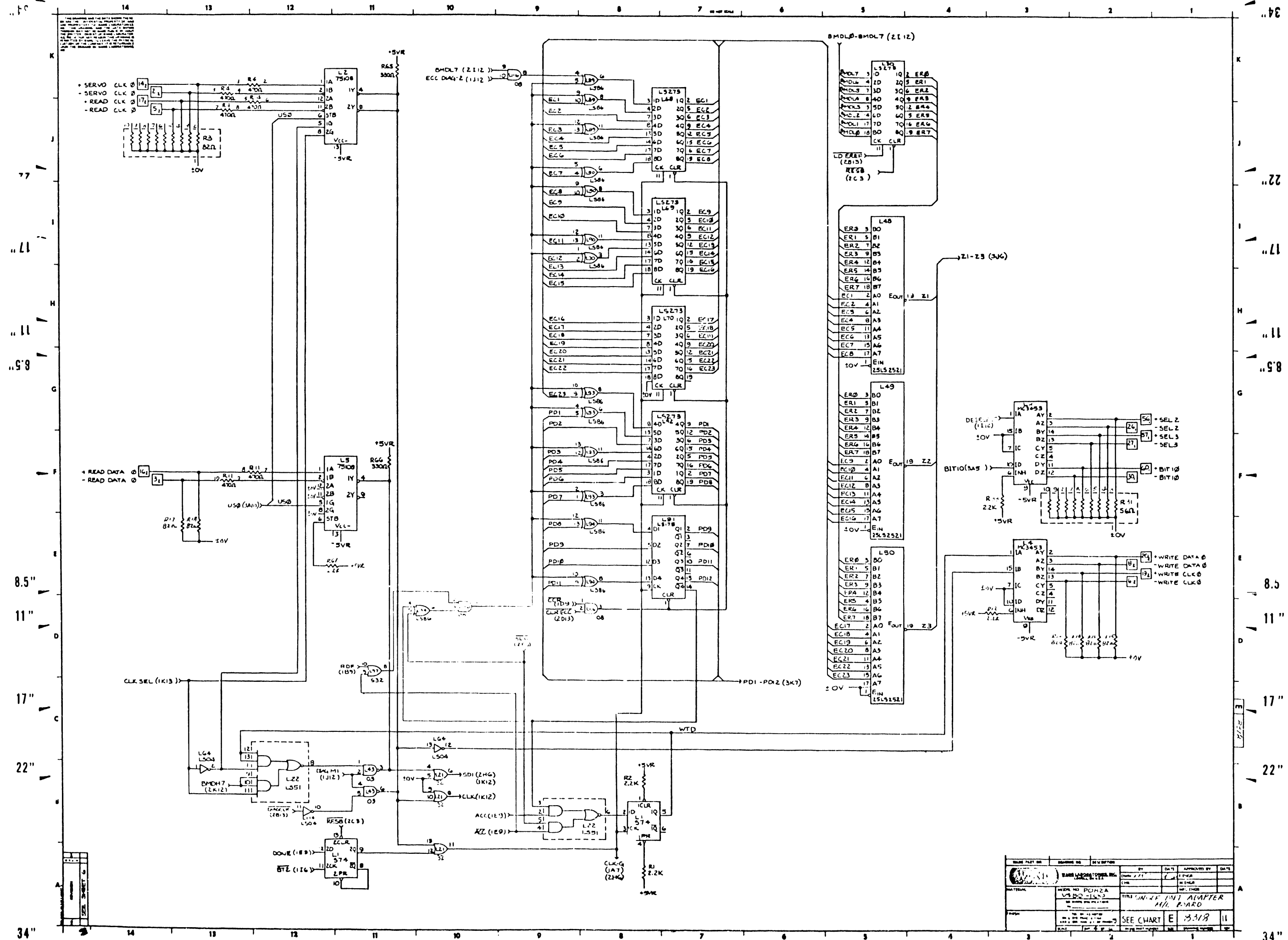
77  
 11  
 11  
 58  
 8.5"  
 11"  
 17"  
 22"  
 34"

22  
 11  
 11  
 58  
 8.5"  
 11"  
 17"  
 22"  
 34"



REV	DESCRIPTION	DATE	APPROVED BY	DATE
1	INITIAL DESIGN	11/11/77	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...



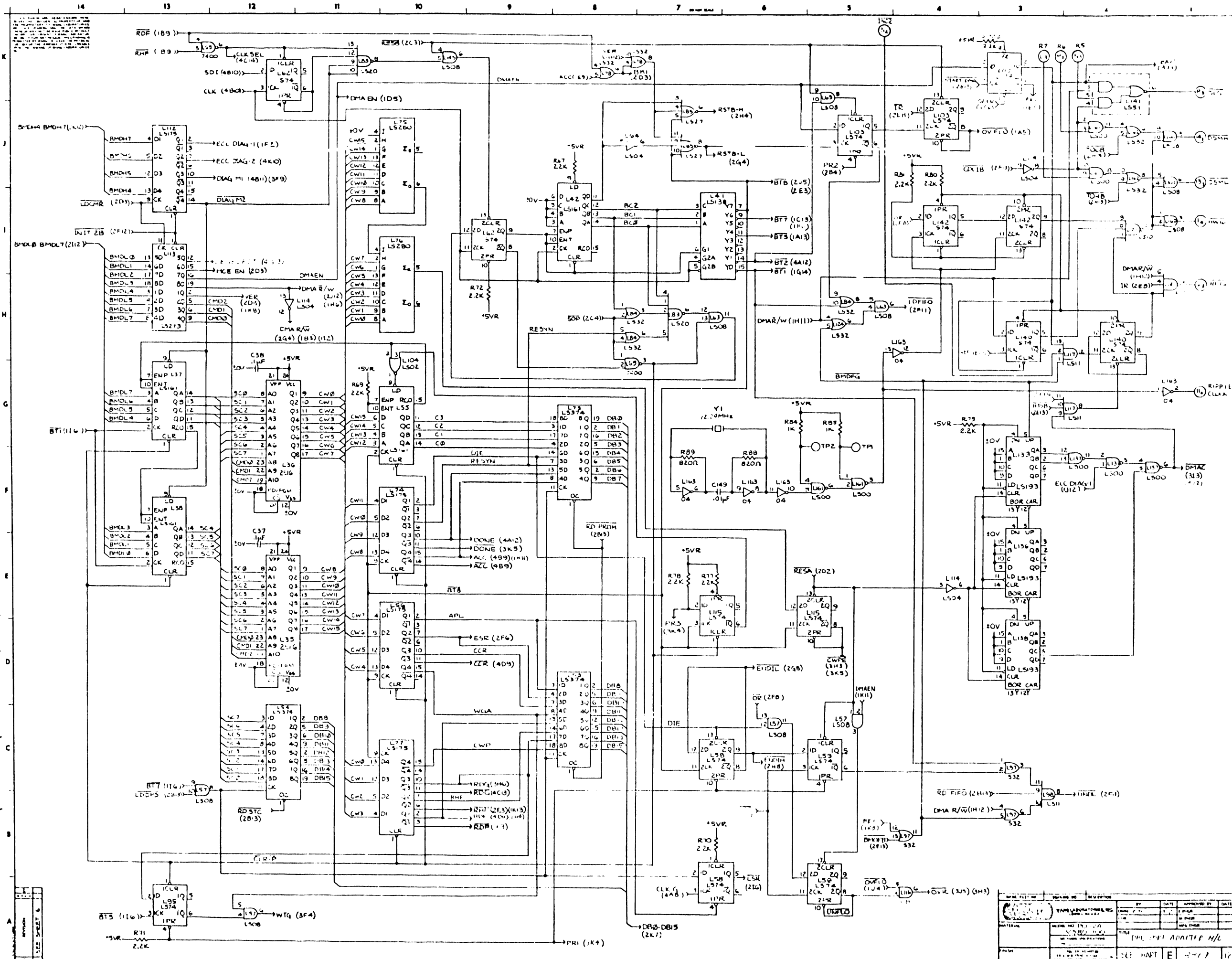


DATE	PLT OR	REVISION NO	BY	DATE	APPROVED BY	DATE
TITLE: BASE LAMP TOWER INC.			DATE: 3/71			
PART NO: V880-1523			DRAWN:			
SEE CHART E			3/18 11			

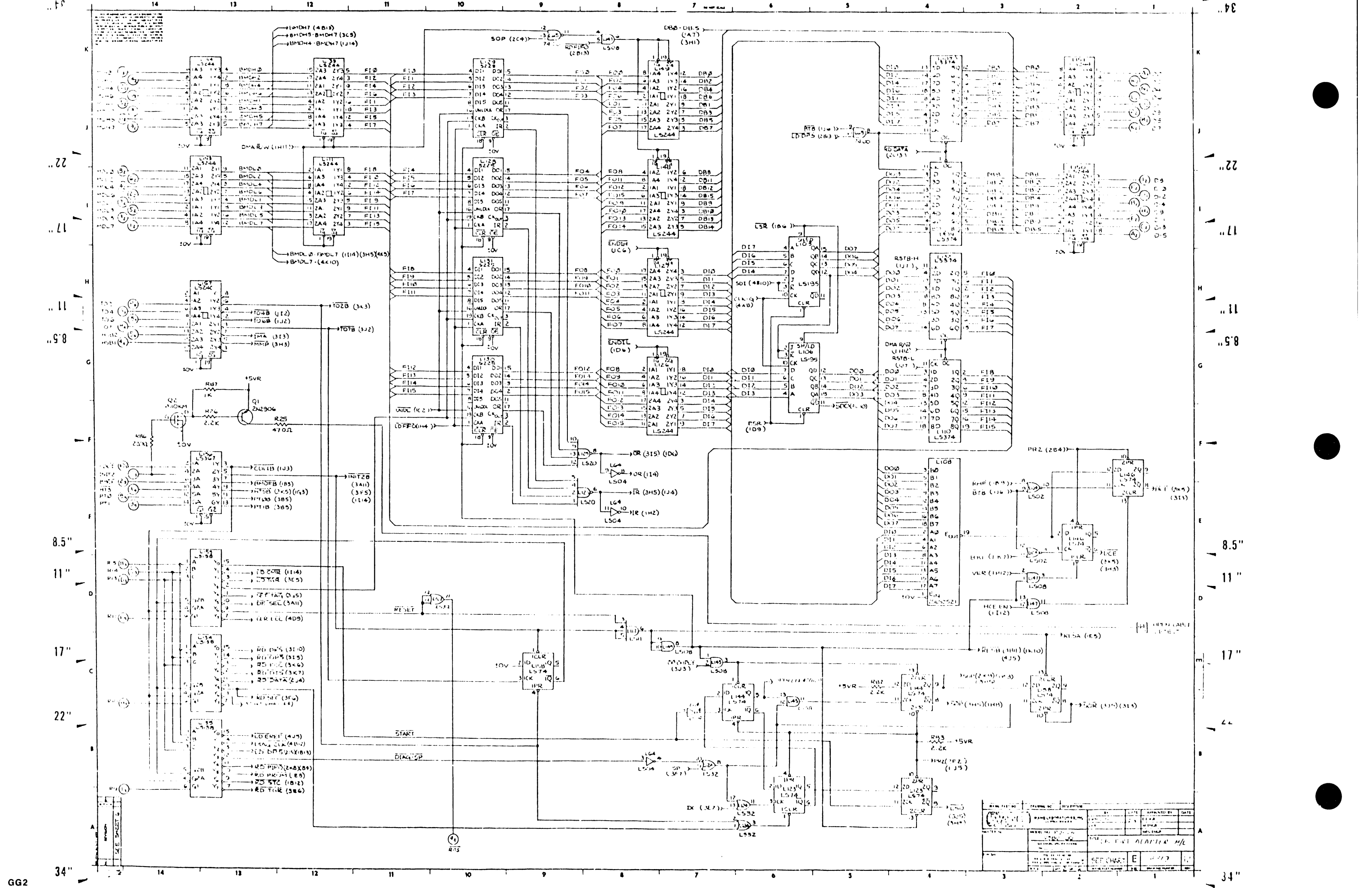






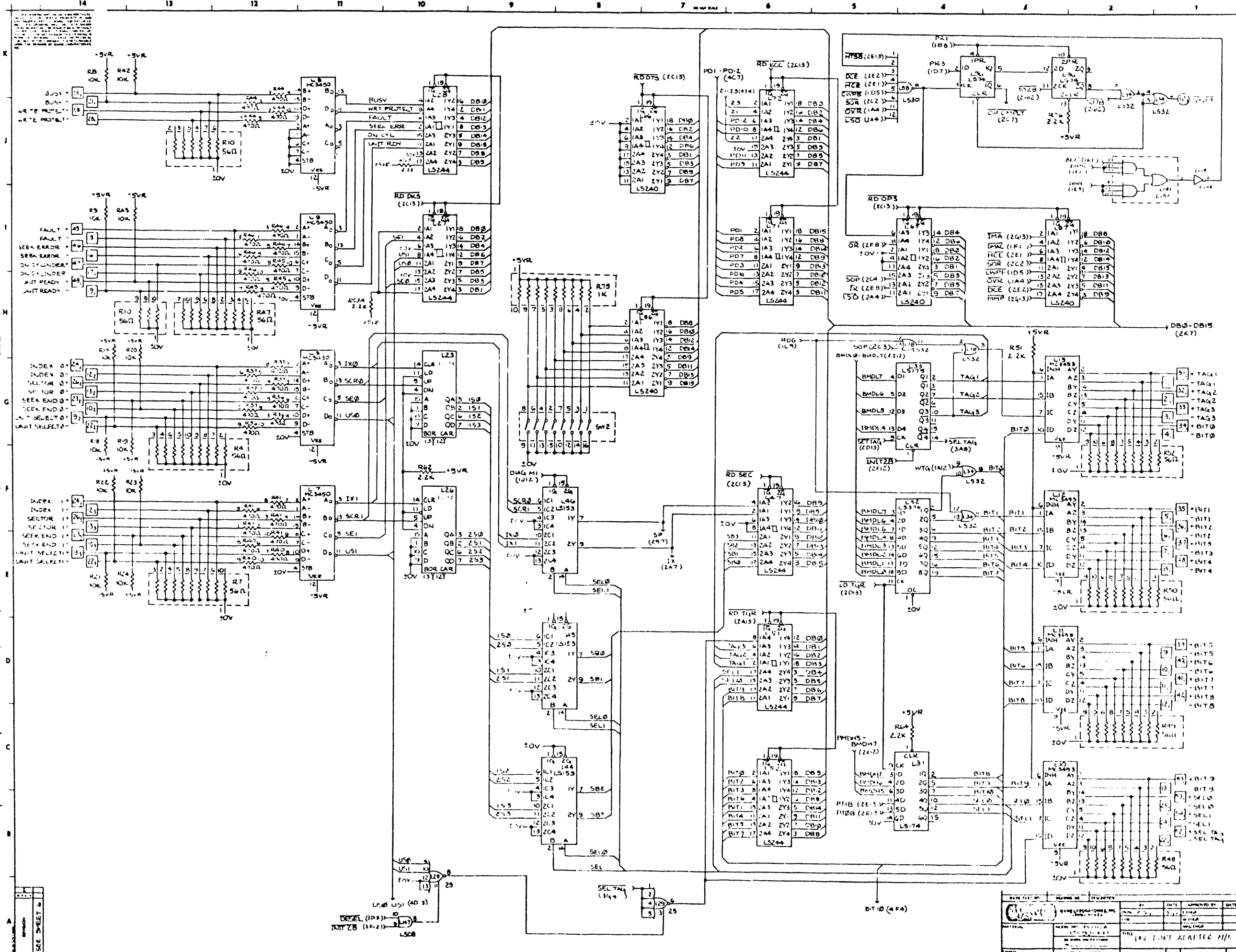


REV	DATE	BY	APPROVED BY	QNTY
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR FABRICATION	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...

SEE CHART E  
SEARCHED  
INDEXED  
SERIALIZED  
FILED



SEE SHEET 5

REV	DATE	BY	APP'D BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

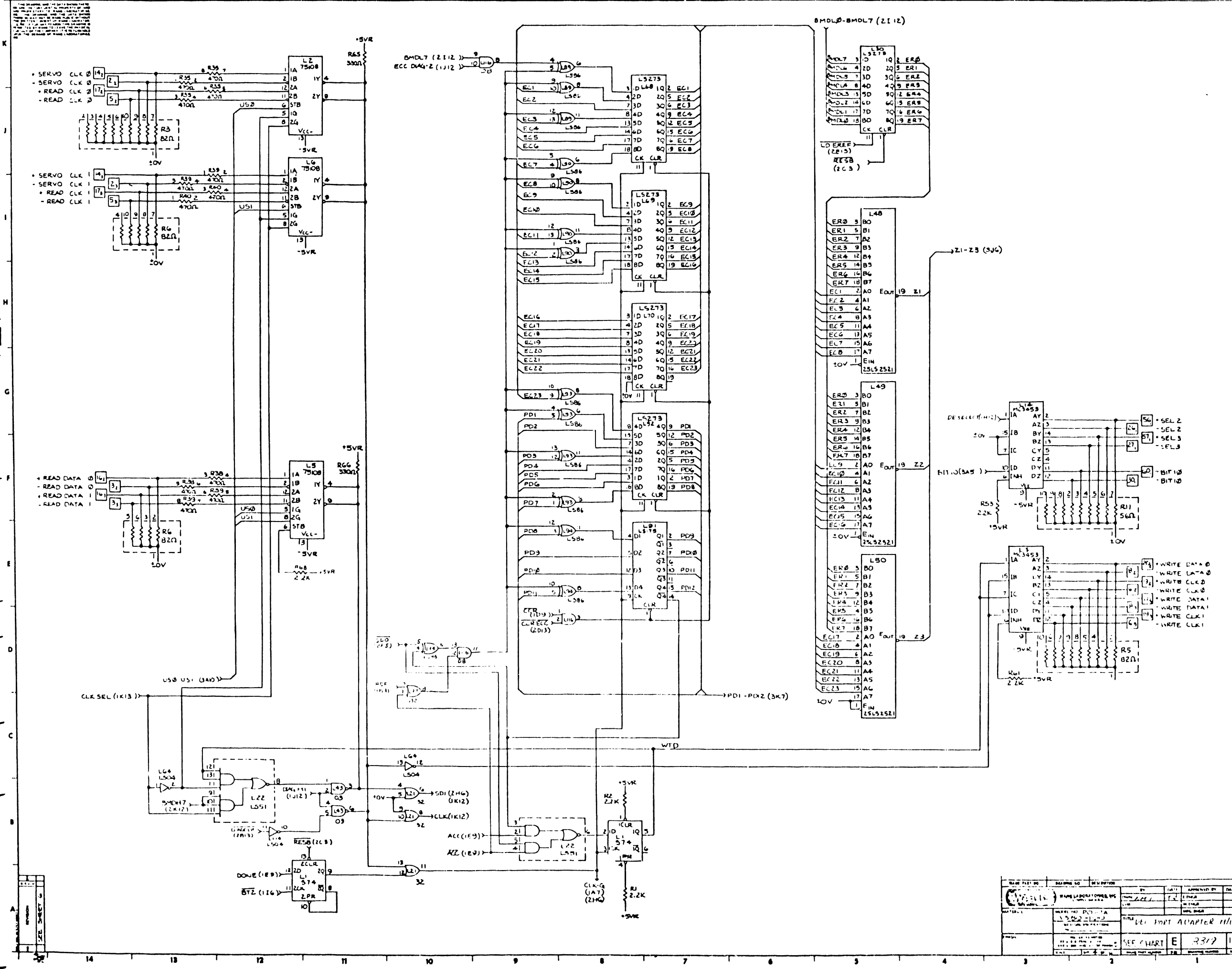
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

..22  
..11  
..11  
..58  
8.5"  
11"  
17"  
22"  
34"

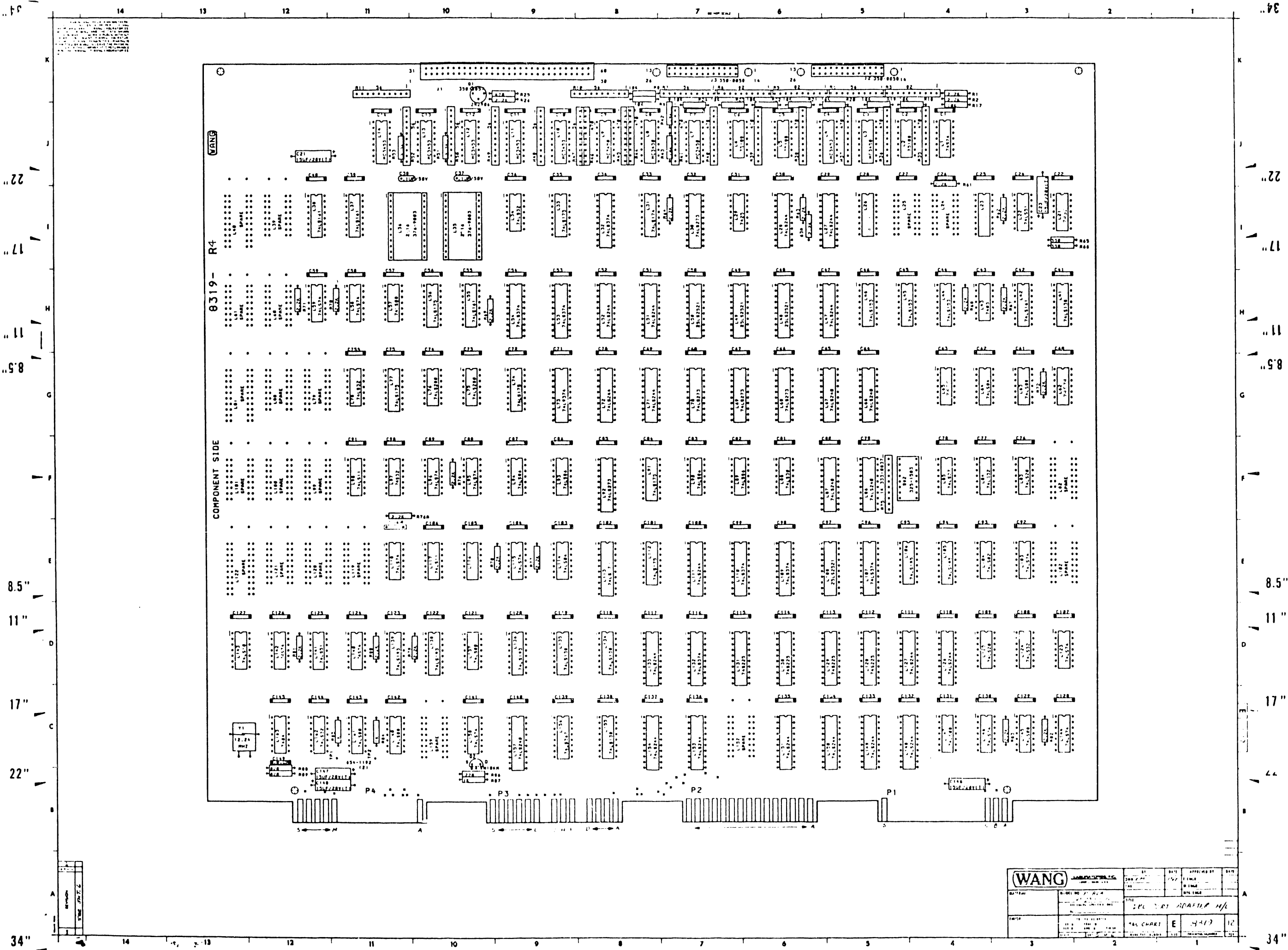
..22  
..11  
..11  
..58  
8.5"  
11"  
17"  
22"  
34"

14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A

14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A

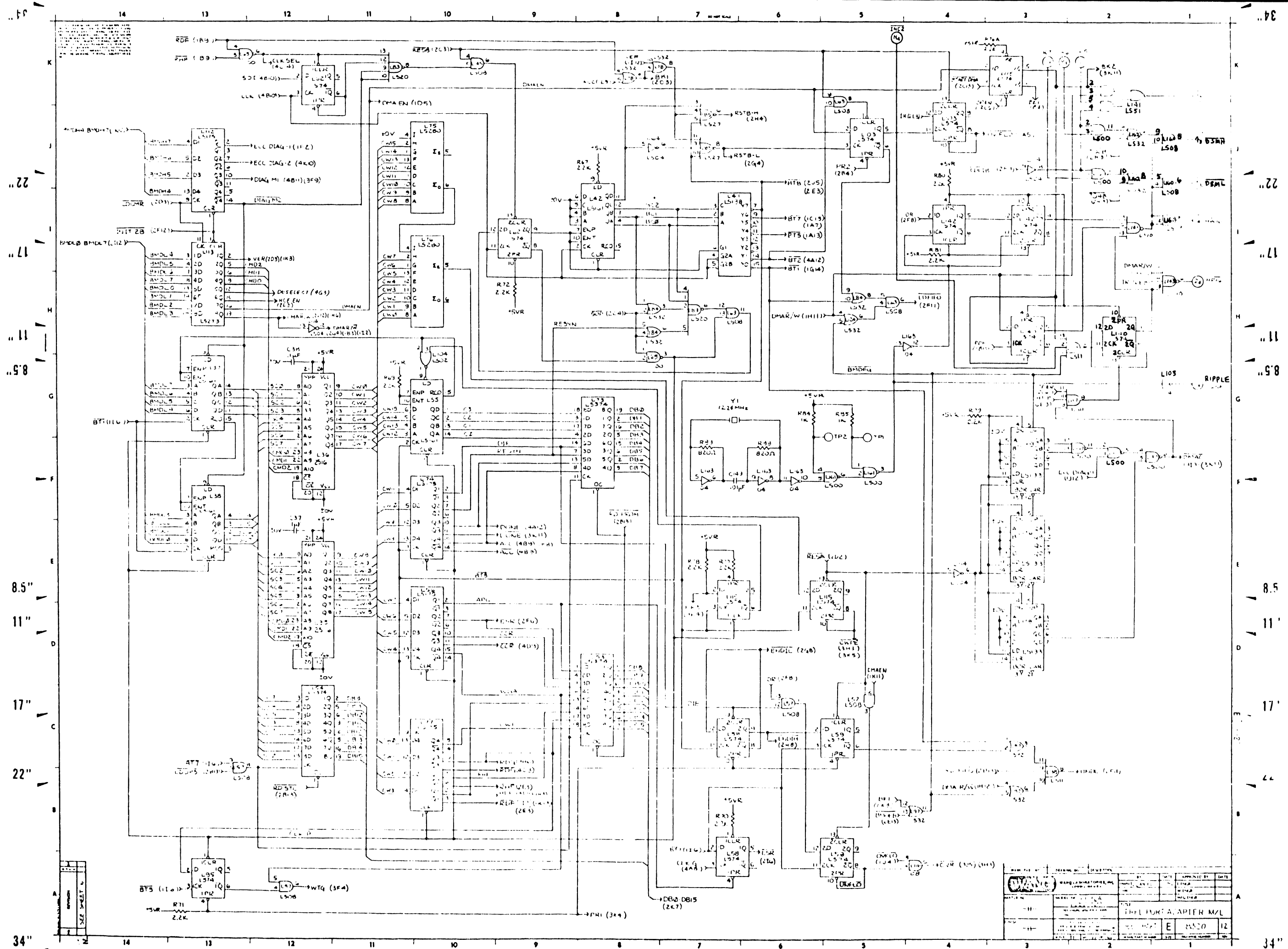


REV	DATE	BY	APP'D	REVISION
1	12/12/72	W. J. ...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...



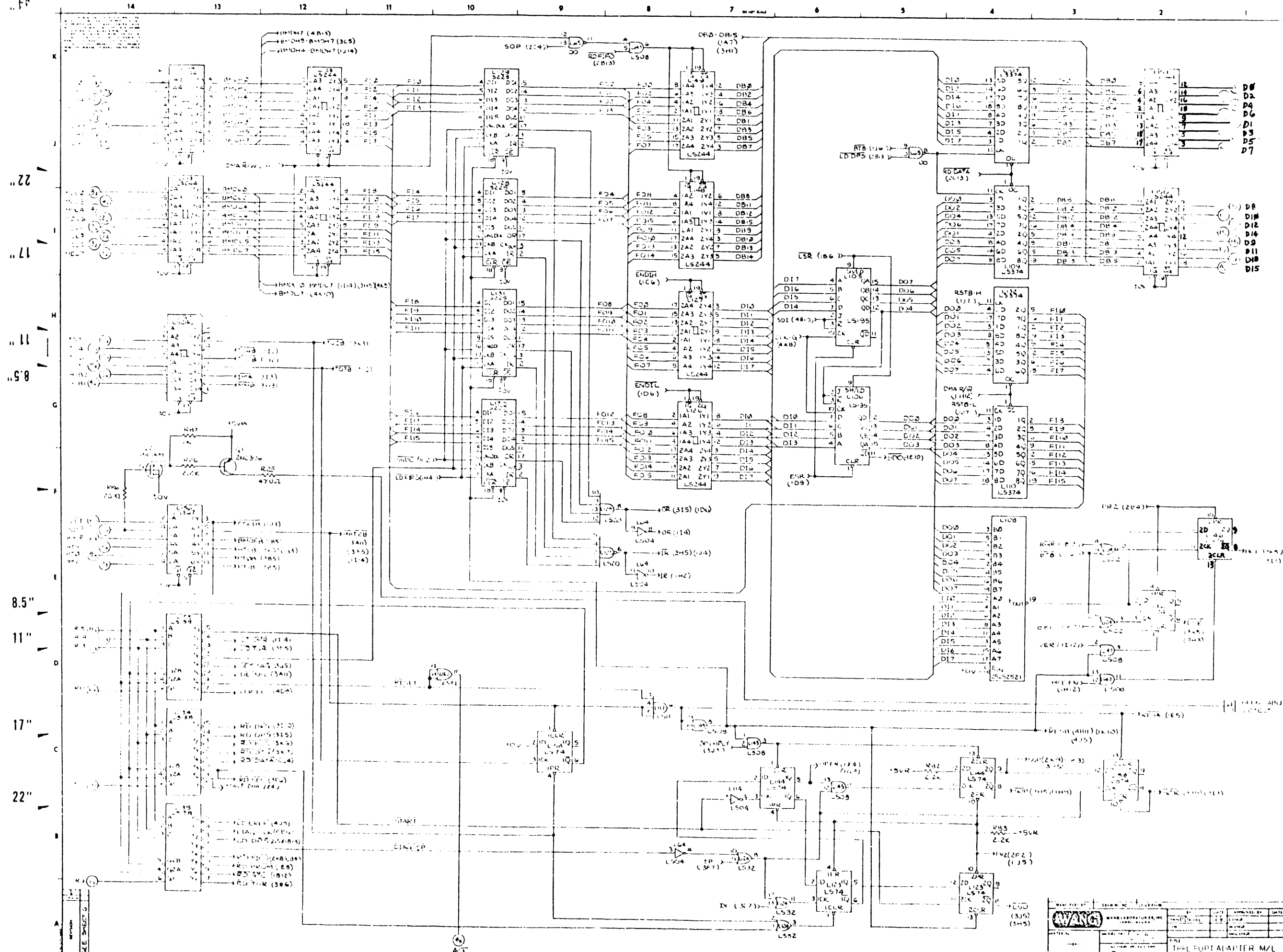




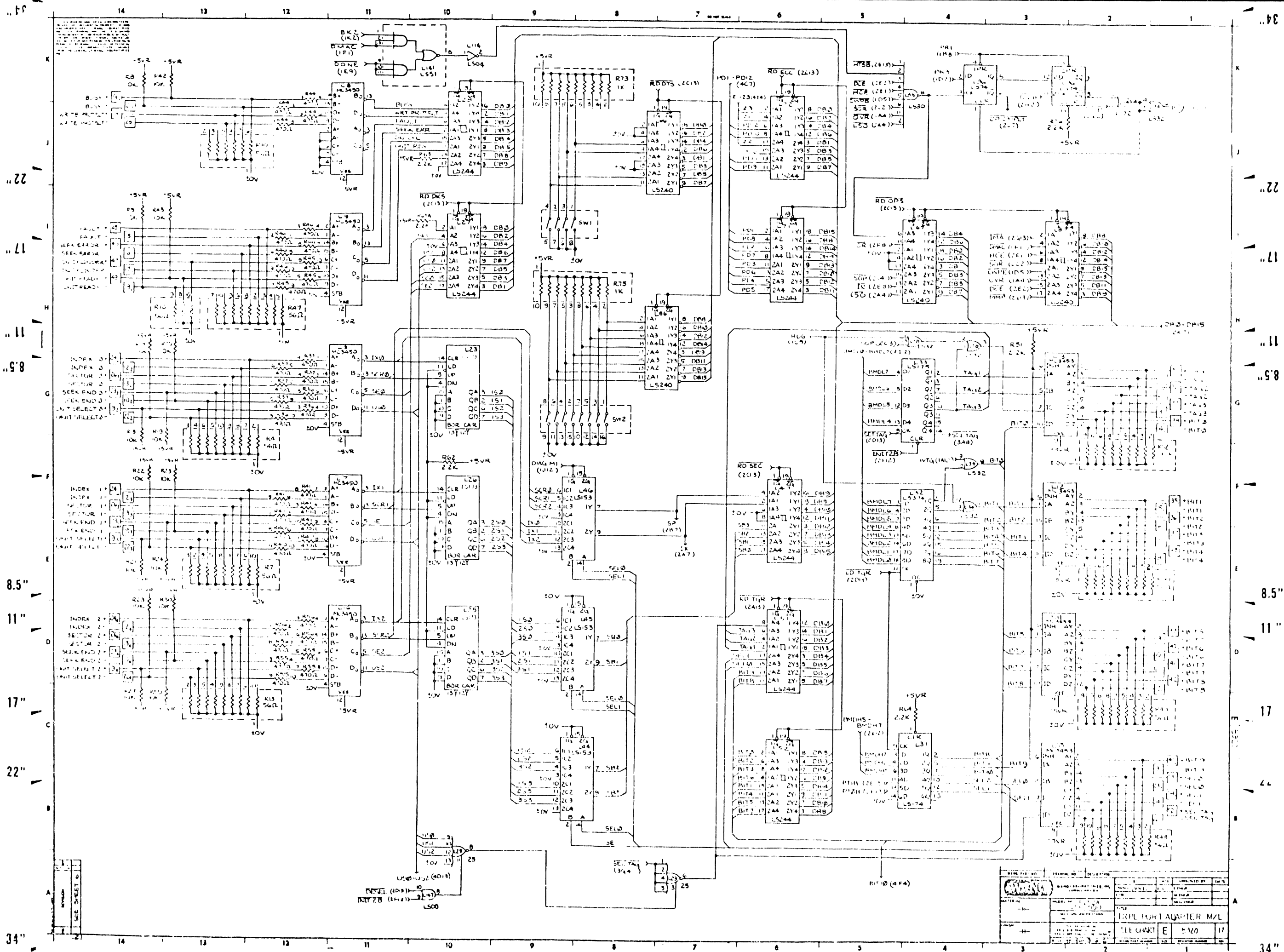


REV	DATE	BY	CHKD	APP'D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

TITLE: [REDACTED]  
 PART: [REDACTED]  
 DRAWING NO: [REDACTED]  
 SHEET NO: [REDACTED] OF [REDACTED]  
 DESIGNED BY: [REDACTED]  
 CHECKED BY: [REDACTED]  
 APPROVED BY: [REDACTED]  
 DATE: [REDACTED]



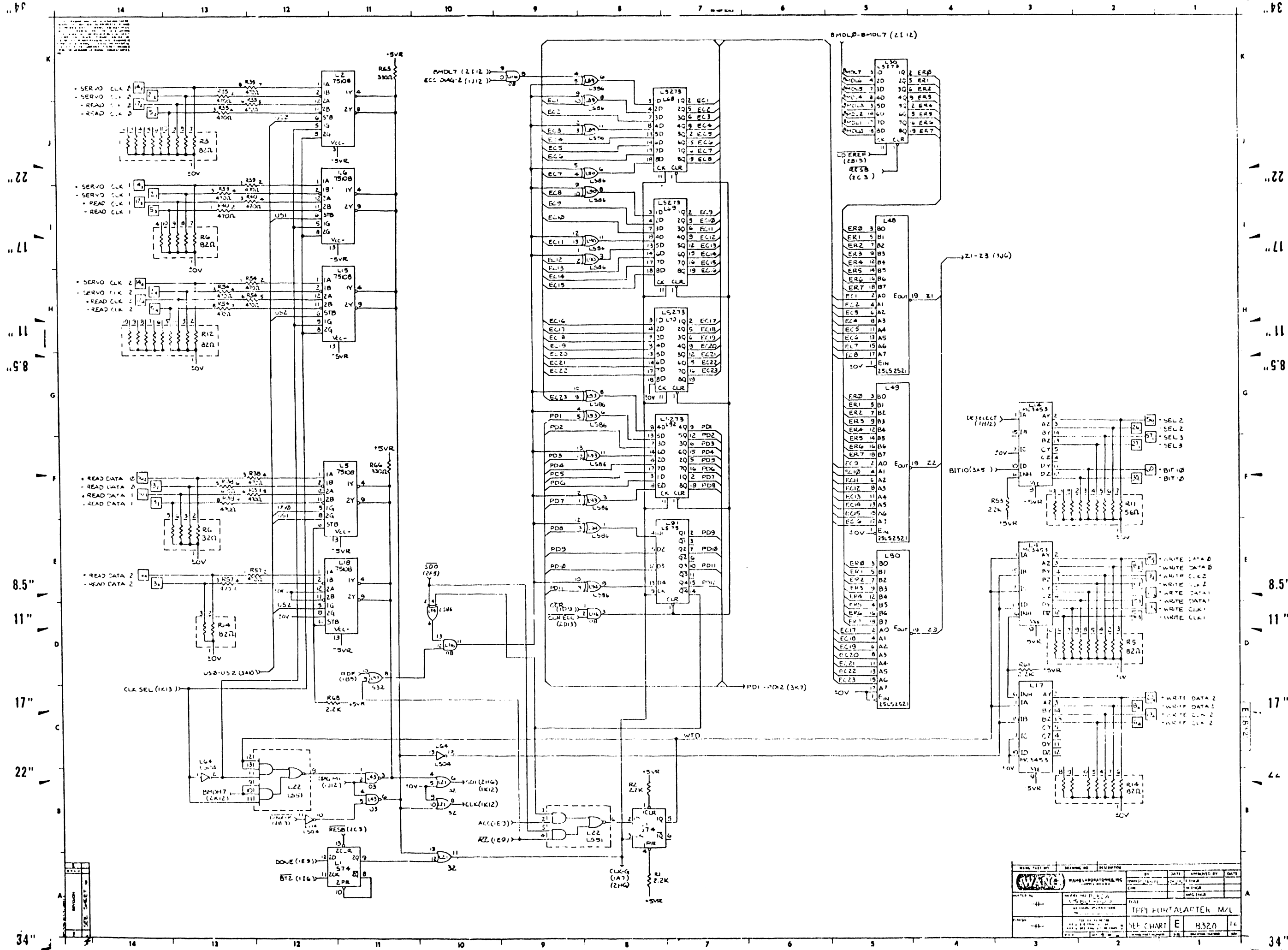
WAG		MANUFACTURING		DATE	
REV	1	DATE	12/15/52	BY	JLW
APP'D		DATE		BY	
CHK'D		DATE		BY	
TEST'D		DATE		BY	
ASSEMBLED		DATE		BY	
INSPECTED		DATE		BY	
SEARCHED	E	4320	12		



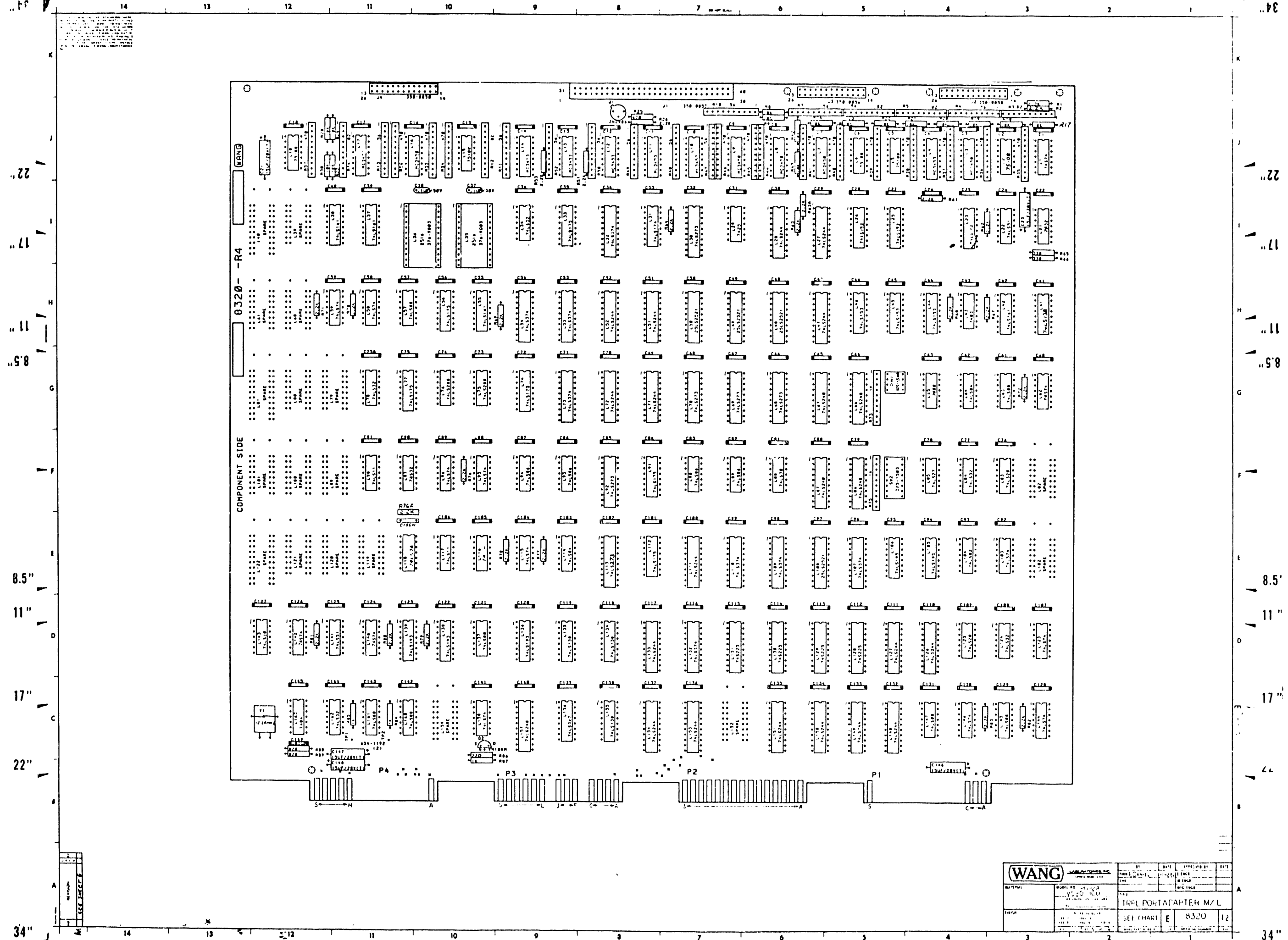
REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR ASSEMBLY	11/17/68	WJL	
2	REWORKED FOR M/L	11/17/68	WJL	
3	REWORKED FOR M/L	11/17/68	WJL	

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR ASSEMBLY	11/17/68	WJL	
2	REWORKED FOR M/L	11/17/68	WJL	
3	REWORKED FOR M/L	11/17/68	WJL	



REV	DESCRIPTION	DATE	BY	APPROVED BY	DATE
1	ISSUED FOR FABRICATION				
2	REVISION				
3	REVISION				
4	REVISION				
5	REVISION				
6	REVISION				
7	REVISION				
8	REVISION				
9	REVISION				
10	REVISION				
11	REVISION				
12	REVISION				
13	REVISION				
14	REVISION				
15	REVISION				
16	REVISION				
17	REVISION				
18	REVISION				
19	REVISION				
20	REVISION				
21	REVISION				
22	REVISION				
23	REVISION				
24	REVISION				
25	REVISION				
26	REVISION				
27	REVISION				
28	REVISION				
29	REVISION				
30	REVISION				
31	REVISION				
32	REVISION				
33	REVISION				
34	REVISION				
35	REVISION				
36	REVISION				
37	REVISION				
38	REVISION				
39	REVISION				
40	REVISION				
41	REVISION				
42	REVISION				
43	REVISION				
44	REVISION				
45	REVISION				
46	REVISION				
47	REVISION				
48	REVISION				
49	REVISION				
50	REVISION				
51	REVISION				
52	REVISION				
53	REVISION				
54	REVISION				
55	REVISION				
56	REVISION				
57	REVISION				
58	REVISION				
59	REVISION				
60	REVISION				
61	REVISION				
62	REVISION				
63	REVISION				
64	REVISION				
65	REVISION				
66	REVISION				
67	REVISION				
68	REVISION				
69	REVISION				
70	REVISION				
71	REVISION				
72	REVISION				
73	REVISION				
74	REVISION				
75	REVISION				
76	REVISION				
77	REVISION				
78	REVISION				
79	REVISION				
80	REVISION				
81	REVISION				
82	REVISION				
83	REVISION				
84	REVISION				
85	REVISION				
86	REVISION				
87	REVISION				
88	REVISION				
89	REVISION				
90	REVISION				
91	REVISION				
92	REVISION				
93	REVISION				
94	REVISION				
95	REVISION				
96	REVISION				
97	REVISION				
98	REVISION				
99	REVISION				
100	REVISION				



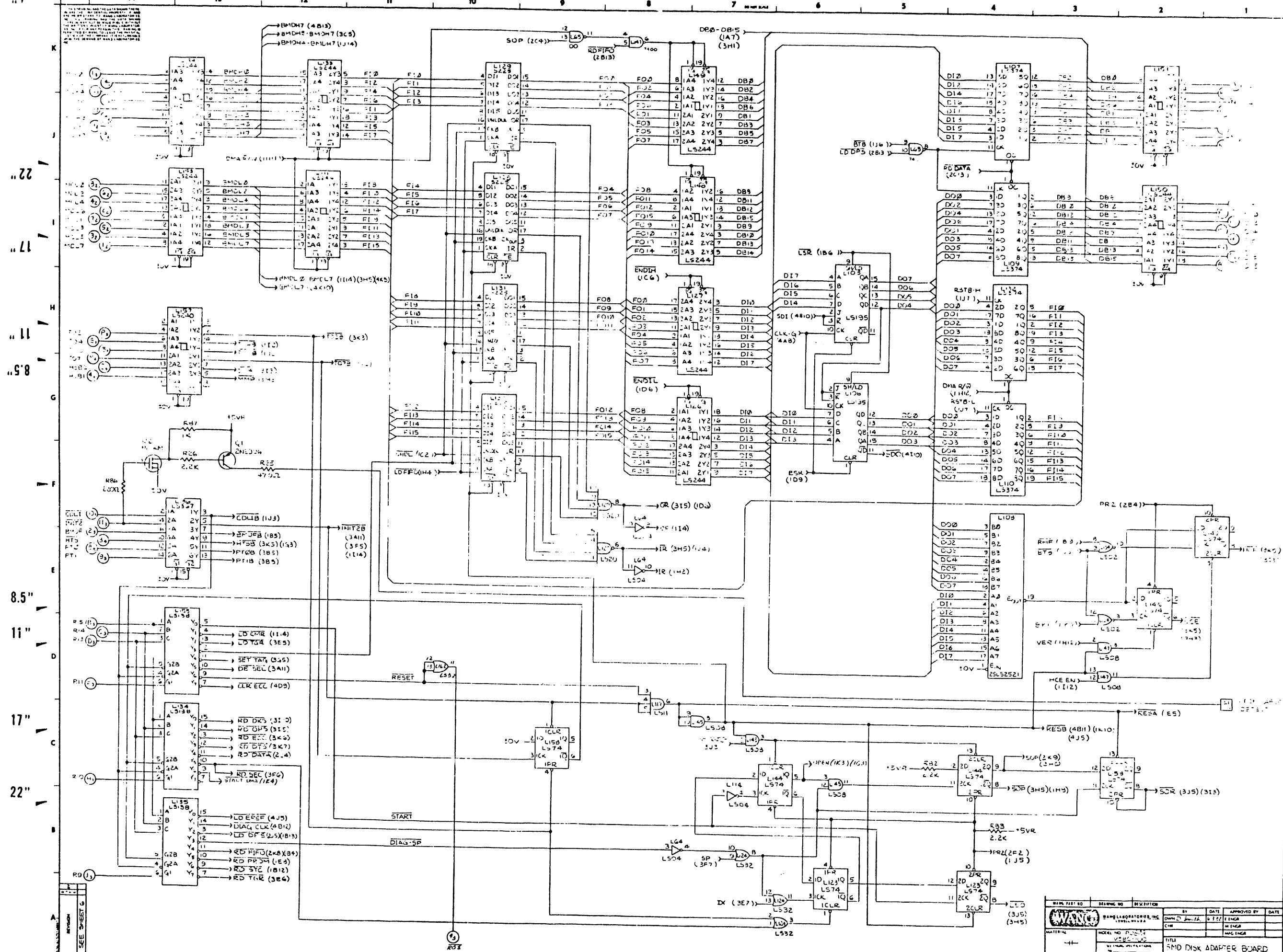
WANG  
8320-4R4  
COMPONENT SIDE

REV	DATE	BY	APP'D
1			
2			

<b>WANG</b>		DATE	APPROVED BY	DATE
QUANTITY	DESCRIPTION	REV	BY	DATE
	8320-4R4			
	TRPL PORTADAPTER M/L			
	SEE CHART	E	8320	12







REV	DESCRIPTION	DATE	BY	APPROVED BY
1	INITIAL RELEASE	11/82	WJ	WJ
2	REVISED FOR...	12/82	WJ	WJ

REV	DESCRIPTION	DATE	BY	APPROVED BY
1	INITIAL RELEASE	11/82	WJ	WJ
2	REVISED FOR...	12/82	WJ	WJ

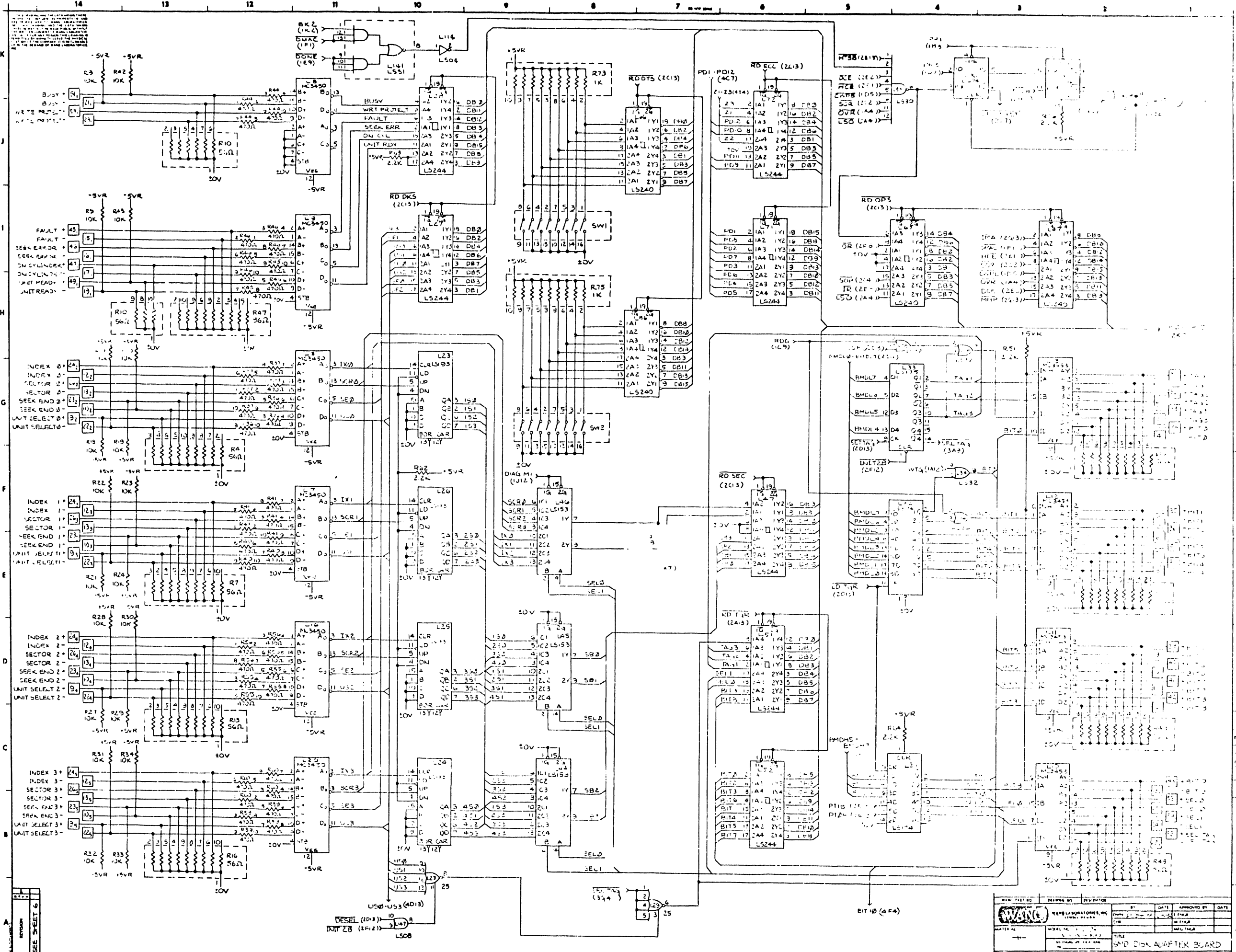
REV	DESCRIPTION	DATE	BY	APPROVED BY
1	INITIAL RELEASE	11/82	WJ	WJ
2	REVISED FOR...	12/82	WJ	WJ

REV	DESCRIPTION	DATE	BY	APPROVED BY
1	INITIAL RELEASE	11/82	WJ	WJ
2	REVISED FOR...	12/82	WJ	WJ

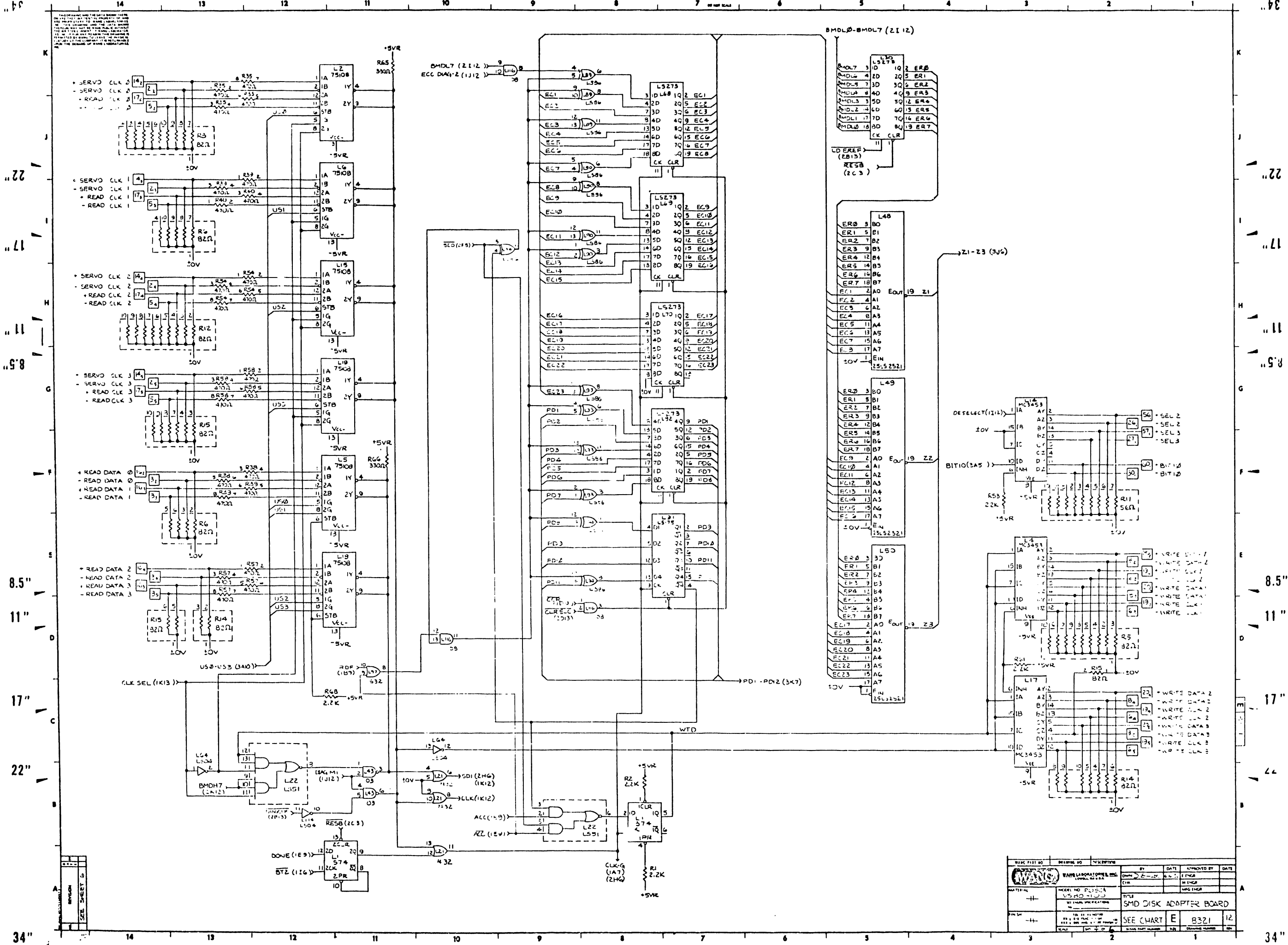
REV	DESCRIPTION	DATE	BY	APPROVED BY
1	INITIAL RELEASE	11/82	WJ	WJ
2	REVISED FOR...	12/82	WJ	WJ

WARRANTY INFORMATION: SEE CHART E 8321 12





REV	FILE NO	DESIGN NO	REVISION	BY	DATE	APPROVED BY	DATE
1							
<b>ORANGE</b>							
NAME OPERATOR, INC.							
1000 N. W. 10th Ave.							
MIAMI, FL 33136							
TITLE							
5ND DISK ALPHATEX BOARD							
SEE DWG							
E 3.321 12							



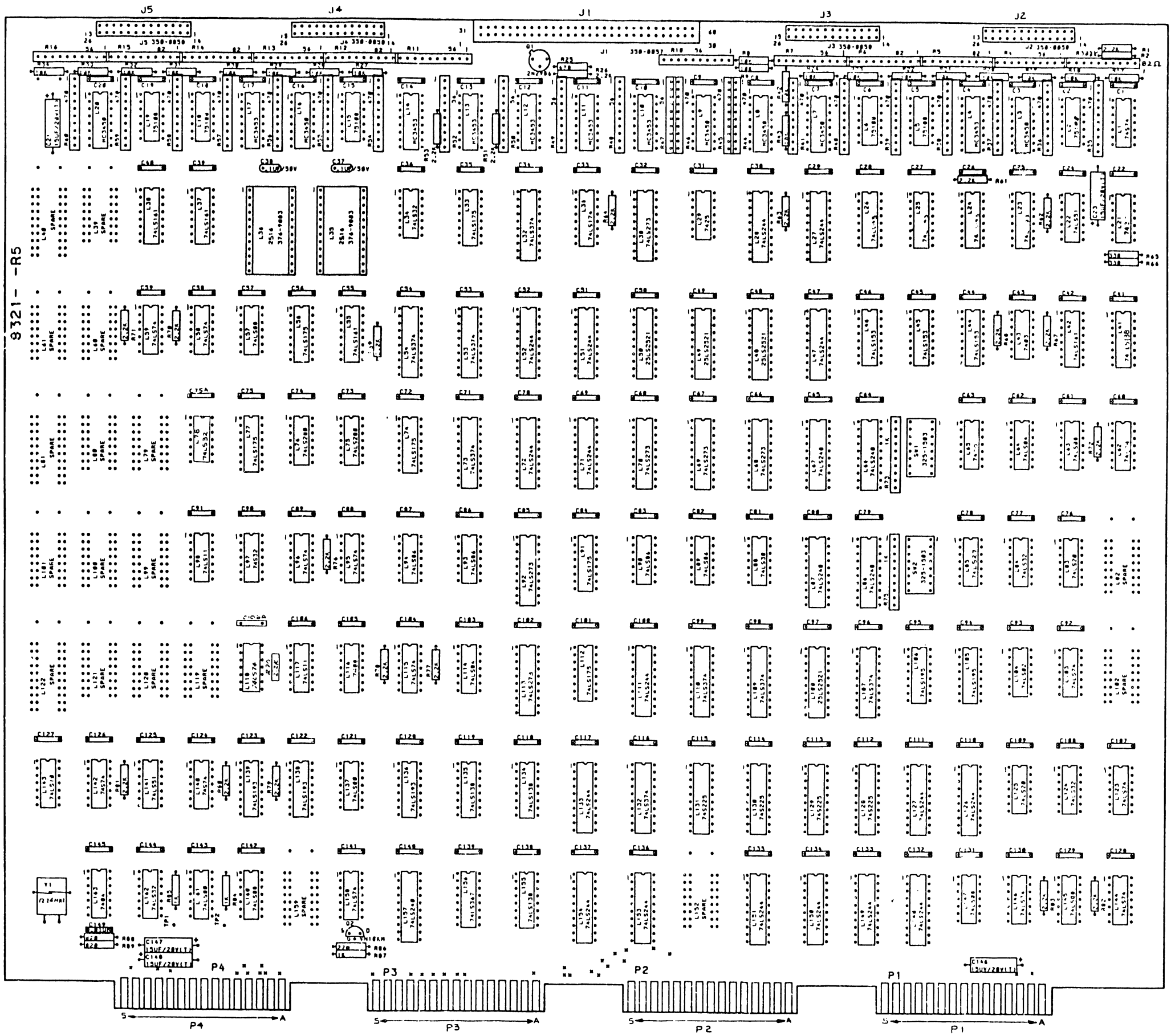
REV	DATE	BY	APPROVED BY
1			
2			
3			

MATERIAL		REV. DATE	
---	VS-00	---	---
TITLE		DRAWN BY	
SMD DISK ADAPTER BOARD		HENCH	
PART NO.		DATE	
SEE CHART E		8321	

JJ4

JJ4



9321-R5

34" 22" 17" 11" 8.5" 8.5" 11" 17" 22" 34"

34" 22" 17" 11" 8.5" 8.5" 11" 17" 22" 34"

SEE SHEET 6

<b>WANG</b>		BY	DATE	APPROVED BY	DATE
		CHEN D.	6/24/83		
		CHK		IN CHG	
				REG. INCH	
SMD DISK ADAPTER BOARD					
		SEE CHART	E	8321	12

THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS LOANED TO YOU FOR YOUR INFORMATION ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPIING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

LOCATION	TYPE	W.L. PART NO.	COMPONENT	TYPE	W.L. PART NO.
R1,2,26,51,53,61,62	2.2K	1/4W 5% 330-3023	2.2K 1/4W 5%	330-3023	
R3,5,6,2,14,15	B2A, P, (5)	333-0804	B2A, P, (5)	333-0804	
R4,7,10,11,13,16,47	5K, 1/2W, 5% (3)	333-3002	5K, 1/2W, 5% (3)	333-3002	
R8,9,17,18,19,20	10K, 1/4W, 5%	330-4011	10K, 1/4W, 5%	330-4011	
R2,22,23,24,27,28	20K, 1/4W, 5%	333-2048	20K, 1/4W, 5%	333-2048	
R29,30,3,32,33,34	42,43				
R25	470K, 1/4W, 5%	330-2048	470K, 1/4W, 5%	330-2048	
R27,28,37,38,39	470K, 1/2W, 5%	333-3003	470K, 1/2W, 5%	333-3003	
R40,41,44,45,46,54	55,56,57,58,59,60				
R45	330K, 1/4W, 5%	330-2034	330K, 1/4W, 5%	330-2034	
R73,75	1K, 51P, (9)	333-0837	1K, 51P, (9)	333-0837	
R84,85,87	1K, 1/4W, 5%	330-3011	1K, 1/4W, 5%	330-3011	
R86	220K, 1/4W, 5%	330-2023	220K, 1/4W, 5%	330-2023	
R88,89	B20K, 1/4W, 5%	330-2083	B20K, 1/4W, 5%	330-2083	
R51,52,53,54,55,56,57,58,59,60	15K, 1/4W, 5%	300-4022	15K, 1/4W, 5%	300-4022	
R37,38	1K, 50V	300-1930	1K, 50V	300-1930	
R119	10K, 1/4W, 5%	300-1303	10K, 1/4W, 5%	300-1303	
R1	2N2906	375-0017	2N2906	375-0017	
R2	2N108M	375-0012	2N108M	375-0012	
R3	TRANSVAR	375-3004	TRANSVAR	375-3004	
Y1	17.24MHZ	331-3019	17.24MHZ	331-3019	
SW1,2	10 POS. D.P.	325-1503	10 POS. D.P.	325-1503	
J1	60 POS	350-0057	60 POS	350-0057	
J2,3,4,5	25 POS	350-0056	25 POS	350-0056	

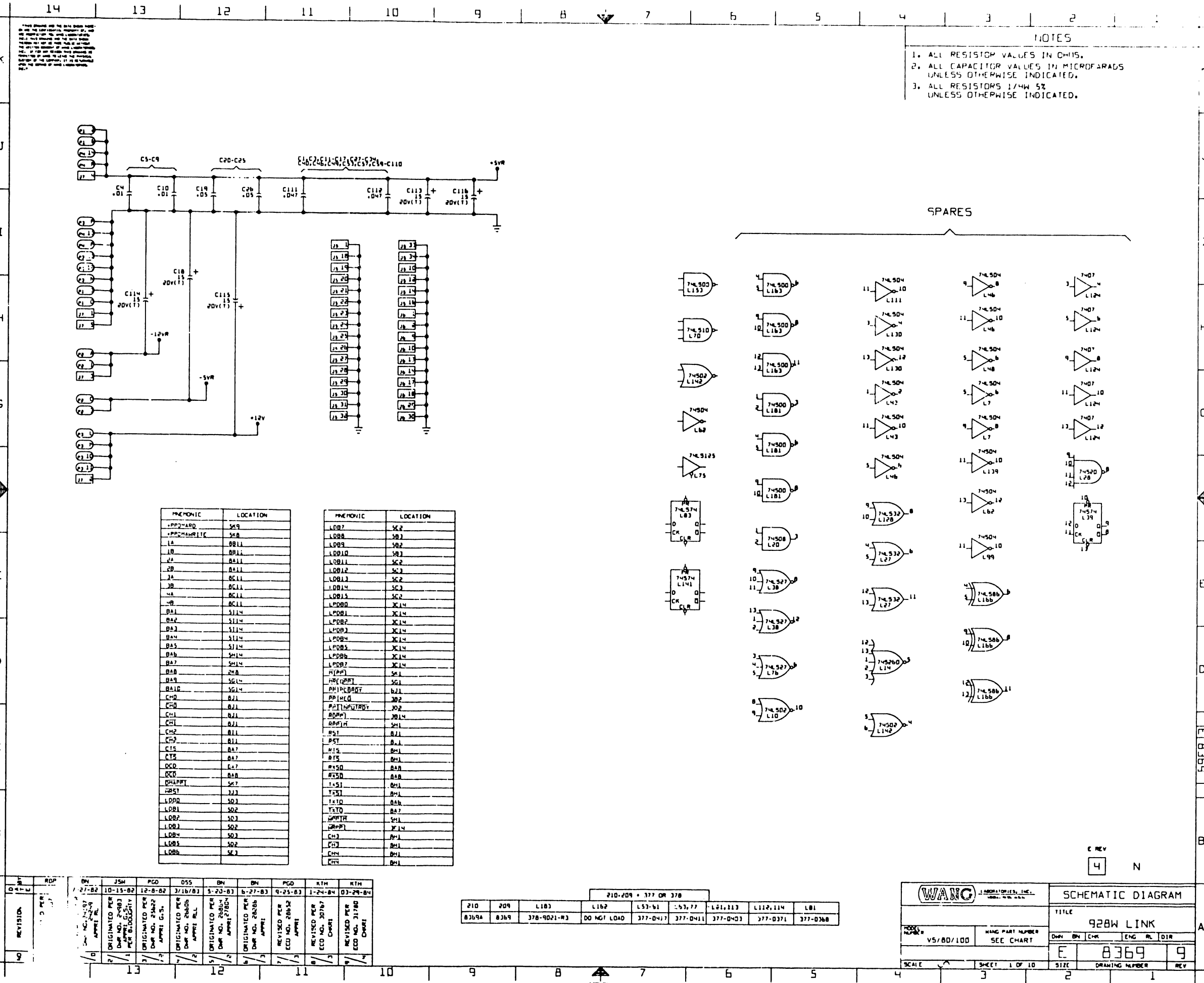
TYPE	LOCATION	SPARES
330	330	1
331	331	1
332	332	1
333	333	1
334	334	1
335	335	2
336	336	1
337	337	1
338	338	1
339	339	1
340	340	1
341	341	1
342	342	1
343	343	1
344	344	1
345	345	1
346	346	1
347	347	1
348	348	1
349	349	1
350	350	1

TYPE	LOCATION	SPARES
351	351	1
352	352	1
353	353	1
354	354	1
355	355	1
356	356	1
357	357	1
358	358	1
359	359	1
360	360	1
361	361	1
362	362	1
363	363	1
364	364	1
365	365	1
366	366	1
367	367	1
368	368	1
369	369	1
370	370	1

371	372	373	374
375	376	377	378
379	380	381	382

PHONEMONS	COORD.
*BIT0	3G1
*BIT1	3G1
*BIT2	4E1
*BIT3	4E1
*BIT4	2E14
*BUSY	3K14
*BUSY	3J14
*CLOCK	2F14
*DLS	1K1
*DSMH	1J1
*DSML	1J1
*D.D.DIF	2K1
*FAULT	3E14
*FAULT	3E14
*HUB1	2G14
*HUB2	2G14
*HRIG	1H1
*HT5	2E14
*HWIG	1E1
*INDEX	1K5
*INDEX 2	3G14
*INDEX 0	3J14
*INDEX 1	3F14
*INDEX 1	3F14
*INDEX 2	3D14
*INDEX 2	3D14
*INDEX 3	2C14
*INDEX 3	2C14
*INITZ	2P14
*MFM INHIB	2K14
*MDA INHIB	2I14
*PON CYL	3I14
*PON CYL	3H14
*OFF. SBL	2D1
*PTO. PTI	2E14
*READ CLK 0	4J14
*READ CLK 0	4J14
*READ CLK 1	4I14
*READ CLK 1	4I14
*READ CLK 2	4H14
*READ CLK 2	4H14
*READ CLK 3	4A14
*READ CLK 3	4A14
*READ DATA 0	4E14
*READ DATA 0	4E14
*READ DATA 1	4F14
*READ DATA 1	4F14
*READ DATA 2	4G14
*READ DATA 2	4G14
*READ DATA 3	4B14
*READ DATA 3	4B14
*READ DATA 4	4C14
*READ DATA 4	4C14
*READ CLK 1	4I14
*READ CLK 1	4I14
*RDI	1K14
*RDI	1K14
*R13-15	3D14
*R16	3E14
*R17	3F14
*R18	3G14
*R19	3H14
*R20	3I14
*R21	3J14
*R22	3K14
*R23	3L14
*R24	3M14
*R25	3N14
*R26	3O14
*R27	3P14
*R28	3Q14
*R29	3R14
*R30	3S14
*R31	3T14
*R32	3U14
*R33	3V14
*R34	3W14
*R35	3X14
*R36	3Y14
*R37	3Z14
*R38	3A14
*R39	3B14
*R40	3C14
*R41	3D14
*R42	3E14
*R43	3F14
*R44	3G14
*R45	3H14
*R46	3I14
*R47	3J14
*R48	3K14
*R49	3L14
*R50	3M14
*R51	3N14
*R52	3O14
*R53	3P14
*R54	3Q14
*R55	3R14
*R56	3S14
*R57	3T14
*R58	3U14
*R59	3V14
*R60	3W14
*R61	3X14
*R62	3Y14
*R63	3Z14
*R64	3A14
*R65	3B14
*R66	3C14
*R67	3D14
*R68	3E14
*R69	3F14
*R70	3G14
*R71	3H14
*R72	3I14
*R73	3J14
*R74	3K14
*R75	3L14
*R76	3M14
*R77	3N14
*R78	3O14
*R79	3P14
*R80	3Q14
*R81	3R14
*R82	3S14
*R83	3T14
*R84	3U14
*R85	3V14
*R86	3W14
*R87	3X14
*R88	3Y14
*R89	3Z14
*R90	3A14
*R91	3B14
*R92	3C14
*R93	3D14
*R94	3E14
*R95	3F14
*R96	3G14
*R97	3H14
*R98	3I14
*R99	3J14
*R100	3K14
*R101	3L14
*R102	3M14
*R103	3N14
*R104	3O14
*R105	3P14
*R106	3Q14
*R107	3R14
*R108	3S14
*R109	3T14
*R110	3U14
*R111	3V14
*R112	3W14
*R113	3X14
*R114	3Y14
*R115	3Z14
*R116	3A14
*R117	3B14
*R118	3C14
*R119	3D14
*R120	3E14
*R121	3F14
*R122	3G14
*R123	3H14
*R124	3I14
*R125	3J14
*R126	3K14
*R127	3L14
*R128	3M14
*R129	3N14
*R130	3O14
*R131	3P14
*R132	3Q14
*R133	3R14
*R134	3S14
*R135	3T14
*R136	3U14
*R137	3V14
*R138	3W14
*R139	3X14
*R140	3Y14
*R141	3Z14
*R142	3A14
*R143	3B14
*R144	3C14
*R145	3D14
*R146	3E14
*R147	3F14
*R148	3G14
*R149	3H14
*R150	3I14
*R151	3J14
*R152	3K14
*R153	3L14
*R154	3M14
*R155	3N14
*R156	3O14
*R157	3P14
*R158	3Q14
*R159	3R14
*R160	3S14
*R161	3T14
*R162	3U14
*R163	3V14
*R164	3W14
*R165	3X14
*R166	3Y14
*R167	3Z14
*R168	3A14
*R169	3B14
*R170	3C14
*R171	3D14
*R172	3E14
*R173	3F14
*R174	3G14
*R175	3H14
*R176	3I14
*R177	3J14
*R178	3K14
*R179	3L14
*R180	3M14
*R181	3N14
*R182	3O14
*R183	3P14
*R184	3Q14
*R185	3R14
*R186	3S14
*R187	3T14
*R188	3U14
*R189	3V14
*R190	3W14
*R191	3X14
*R192	3Y14
*R193	3Z14
*R194	3A14
*R195	3B14
*R196	3C14
*R197	3D14
*R198	3E14
*R199	3F14
*R200	3G14
*R201	3H14
*R202	3I14
*R203	3J14
*R204	3K14
*R205	3L14
*R206	3M14
*R207	3N14
*R208	3O14
*R209	3P14
*R210	3Q14
*R211	3R14
*R212	3S14
*R213	3T14
*R214	3U14
*R215	3V14
*R216	3W14
*R217	3X14
*R218	3Y14
*R219	3Z14
*R220	3A14
*R221	3B14
*R222	3C14
*R223	3D14
*R224	3E14
*R225	3F14
*R226	3G14
*R227	3H14
*R228	3I14
*R229	3J14
*R230	3K14
*R231	3L14
*R232	3M14
*R233	3N14
*R234	3O14
*R235	3P14
*R236	3Q14
*R237	3R14
*R238	3S14
*R239	3T14
*R240	3U14
*R241	3V14
*R242	3W14
*R243	3X14
*R244	3Y14
*R245	3Z14
*R246	3A14
*R247	3B14
*R248	3C14
*R249	3D14
*R250	3E14

PHONEMONS	COORD.
*READ CLK 1	4I14
*READ CLK 1	4I14
*READ CLK 2	4H14
*READ CLK 2	4H14
*READ CLK 3	4A14
*READ CLK 3	4A14
*READ DATA 0	4E14
*READ DATA 0	4E14
*READ DATA 1	4F14
*READ DATA 1	4F14
*READ DATA 2	4G14
*READ DATA 2	4G14
*READ DATA 3	4B14
*READ DATA 3	4B14
*READ DATA 4	4C14
*READ DATA 4	4C14
*READ CLK 1	4I14
*READ CLK 1	4I14
*RDI	1K14
*RDI	1K14
*R13-15	3D14
*R16	3E14



1. THIS DRAWING AND THE PARTS LISTED THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE USED ONLY FOR THE PURPOSES AUTHORIZED BY WANG LABORATORIES, INC. ANY OTHER USE IS STRICTLY PROHIBITED. 2. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THIS DRAWING AND SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE PARTS LISTED THEREON. 3. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THIS DRAWING AND SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE PARTS LISTED THEREON.

NOTES

- ALL RESISTOR VALUES IN OHMS.
- ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE INDICATED.
- ALL RESISTORS 1/4W 5% UNLESS OTHERWISE INDICATED.

SPARES

PHONEMIC	LOCATION
APP2-ARD	SK9
APP2-ARW	SK8
L1	BB11
L2	BB11
L3	BB11
L4	BC11
L5	BC11
L6	BC11
L7	BC11
L8	BC11
L9	BC11
L10	BC11
L11	BC11
L12	BC11
L13	BC11
L14	BC11
L15	BC11
L16	BC11
L17	BC11
L18	BC11
L19	BC11
L20	BC11
L21	BC11
L22	BC11
L23	BC11
L24	BC11
L25	BC11
L26	BC11
L27	BC11
L28	BC11
L29	BC11
L30	BC11
L31	BC11
L32	BC11
L33	BC11
L34	BC11
L35	BC11
L36	BC11
L37	BC11
L38	BC11
L39	BC11
L40	BC11
L41	BC11
L42	BC11
L43	BC11
L44	BC11
L45	BC11
L46	BC11
L47	BC11
L48	BC11
L49	BC11
L50	BC11
L51	BC11
L52	BC11
L53	BC11
L54	BC11
L55	BC11
L56	BC11
L57	BC11
L58	BC11
L59	BC11
L60	BC11

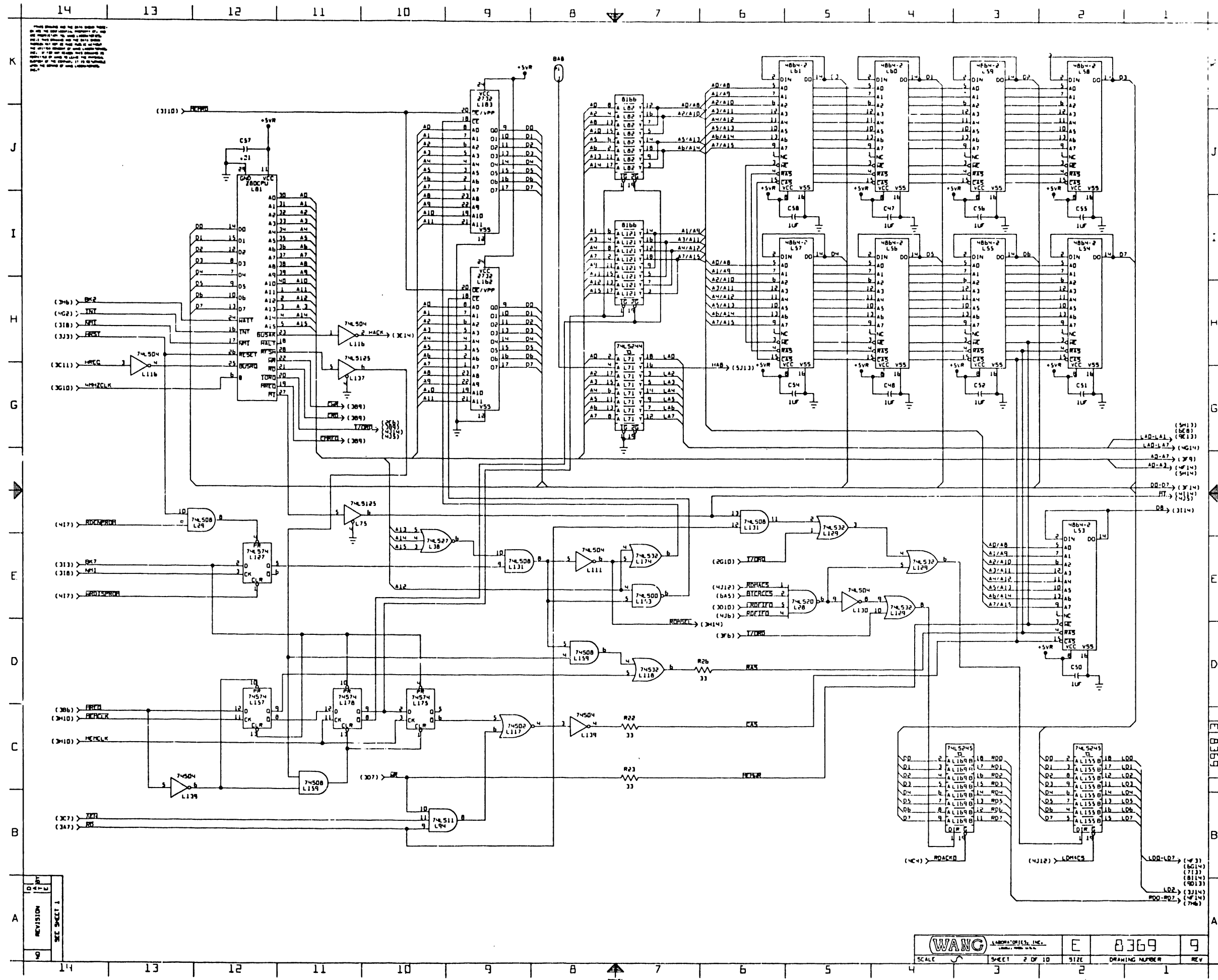
PHONEMIC	LOCATION
LDR7	SK2
LDR8	SK2
LDR9	SK2
LDR10	SK2
LDR11	SK2
LDR12	SK2
LDR13	SK2
LDR14	SK2
LDR15	SK2
LDR16	SK2
LDR17	SK2
LDR18	SK2
LDR19	SK2
LDR20	SK2
LDR21	SK2
LDR22	SK2
LDR23	SK2
LDR24	SK2
LDR25	SK2
LDR26	SK2
LDR27	SK2
LDR28	SK2
LDR29	SK2
LDR30	SK2
LDR31	SK2
LDR32	SK2
LDR33	SK2
LDR34	SK2
LDR35	SK2
LDR36	SK2
LDR37	SK2
LDR38	SK2
LDR39	SK2
LDR40	SK2
LDR41	SK2
LDR42	SK2
LDR43	SK2
LDR44	SK2
LDR45	SK2
LDR46	SK2
LDR47	SK2
LDR48	SK2
LDR49	SK2
LDR50	SK2

NO.	REVISION	DATE	BY	APP'D.
1	2/2-82	JSM	PGD	OSS
2	10-15-82	12-8-82	37-16-83	5-23-83
3	12-8-82	12-8-82	37-16-83	5-23-83
4	3/16/83	3/16/83	37-16-83	5-23-83
5	5-23-83	5-23-83	37-16-83	5-23-83
6	8-27-83	8-27-83	37-16-83	5-23-83
7	9-25-83	9-25-83	37-16-83	5-23-83
8	1-24-84	1-24-84	37-16-83	5-23-83
9	03-29-84	03-29-84	37-16-83	5-23-83

210-209 • 377 OR 378						
210	209	L183	L162	L53-51	L53-77	L53-113
8369A	8369	378-9021-R3	DO NOT LOAD	377-0417	377-0411	377-0403
					L122,114	L122,114
					L101	L101
					377-0371	377-0368

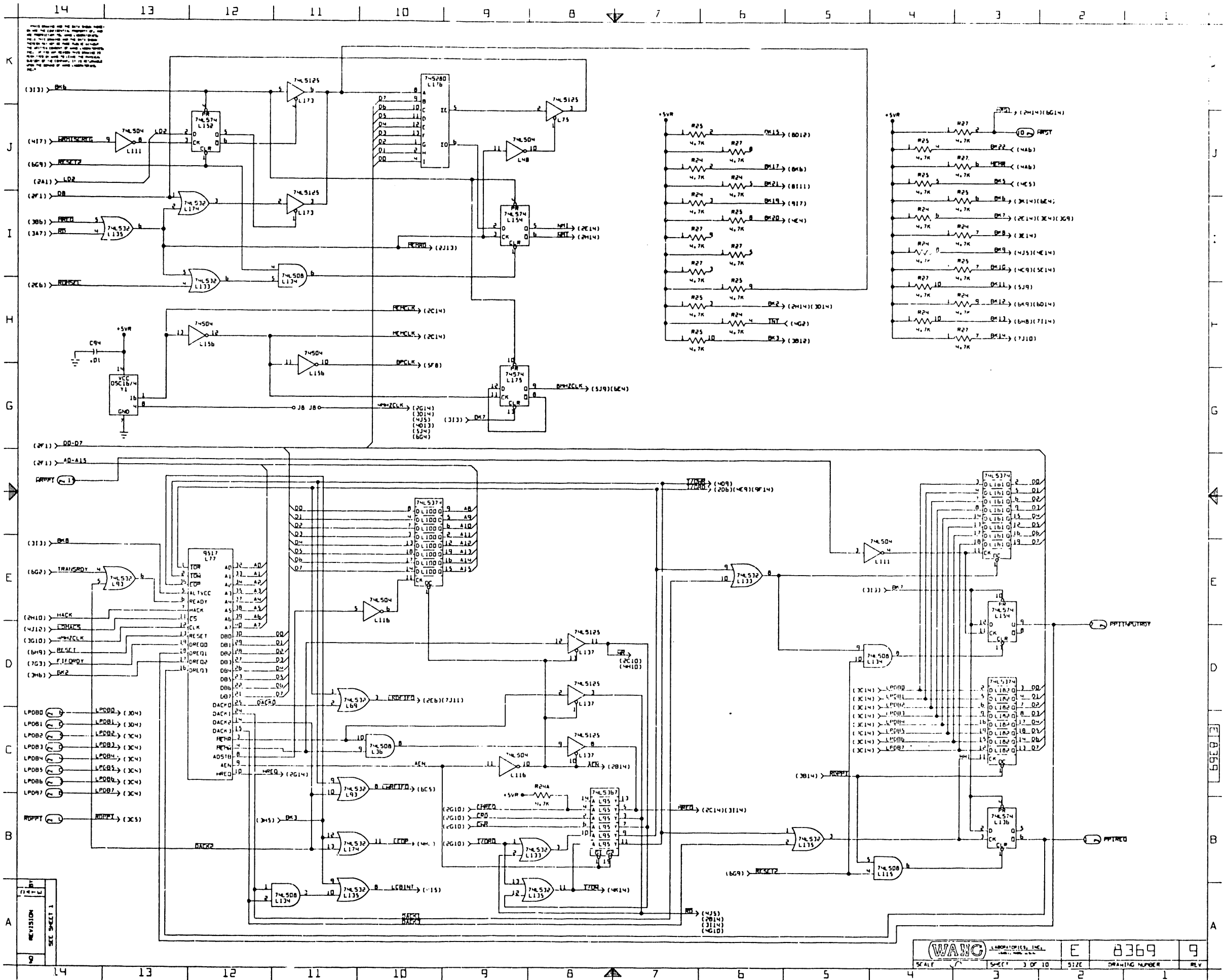
REV 4 N

	SCHEMATIC DIAGRAM	
	TITLE <b>928W LINK</b>	
	WANG PART NUMBER SEE CHART	
	VS/60/100	SCALE
NO. 8369	DRAWING NUMBER <b>8369</b>	
SHEET 1 OF 10	SIZE	REV <b>9</b>



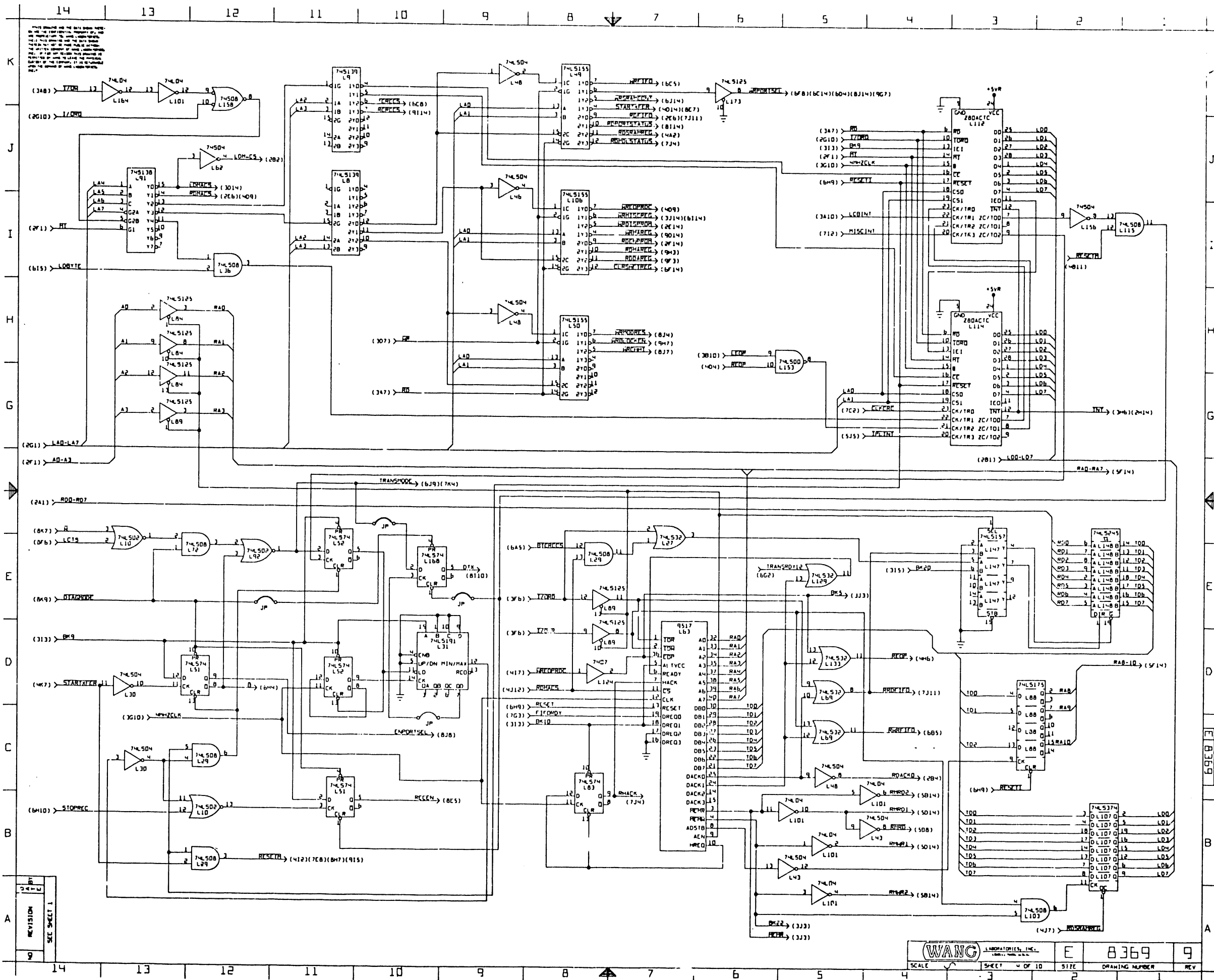
NOTE: This drawing is for the 8008 microprocessor. It is not intended for use with other microprocessors. The 8008 microprocessor is a single-chip 8-bit CPU. It contains an 8-bit ALU, an 8-bit accumulator, an 8-bit register file, and an 8-bit instruction decoder. The 8008 microprocessor is compatible with the Intel 8080 microprocessor. The 8008 microprocessor is available in a 16-pin DIP package.

NO	REVISION	BY	DATE



NOTE: This drawing was prepared using the Wang 2200 computer system. The circuit was designed and checked using the Wang 2200 computer system. The circuit was designed and checked using the Wang 2200 computer system. The circuit was designed and checked using the Wang 2200 computer system.

REV	DESCRIPTION
1	SEE SHEET 1

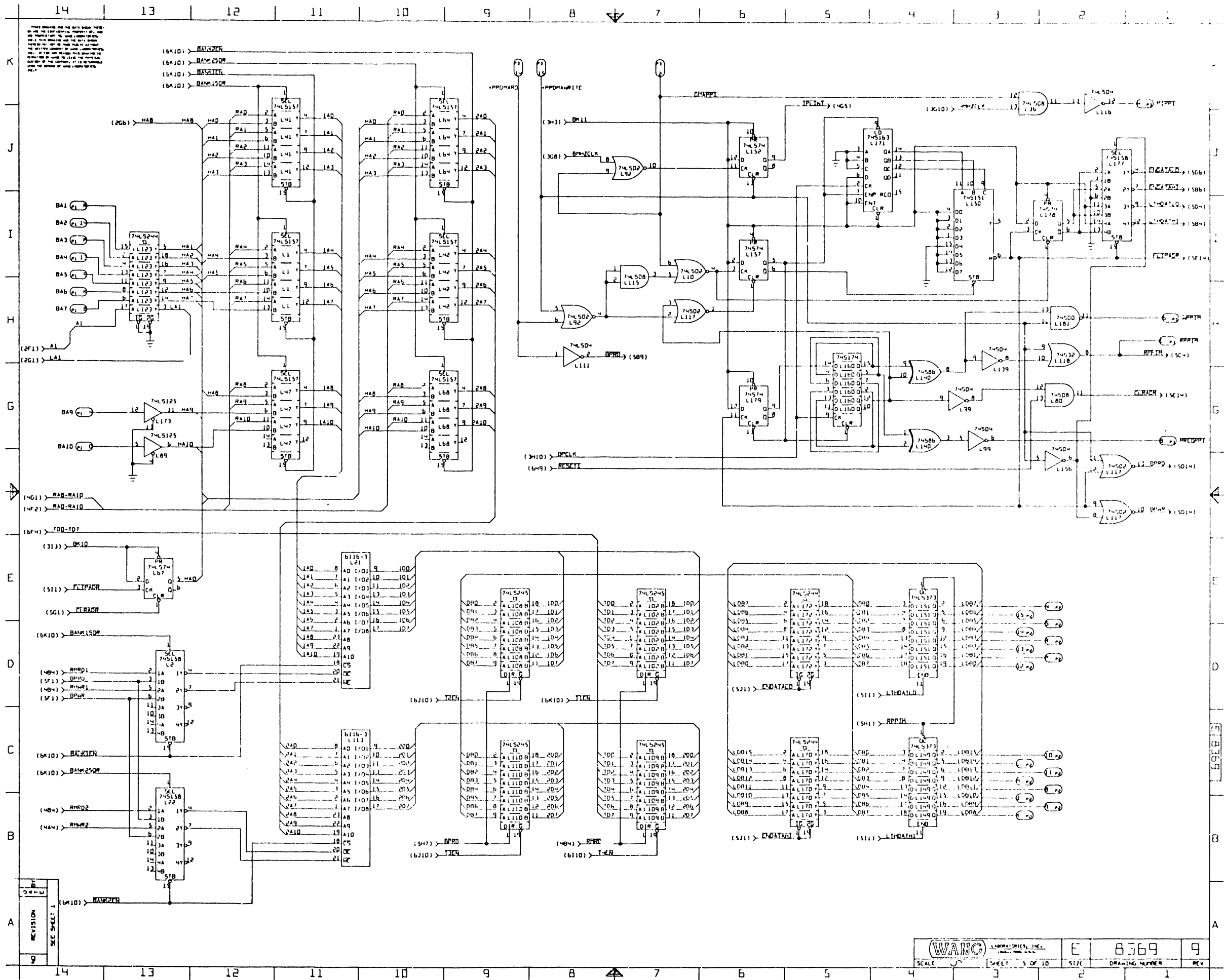


NOTE: All components are to be used as shown unless otherwise specified. All components are to be used as shown unless otherwise specified. All components are to be used as shown unless otherwise specified.

REV	DATE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

WANG LABORATORIES, INC.		E	8369	9
SCALE	SHEET 4 OF 10	SITE	DRAWING NUMBER	REV

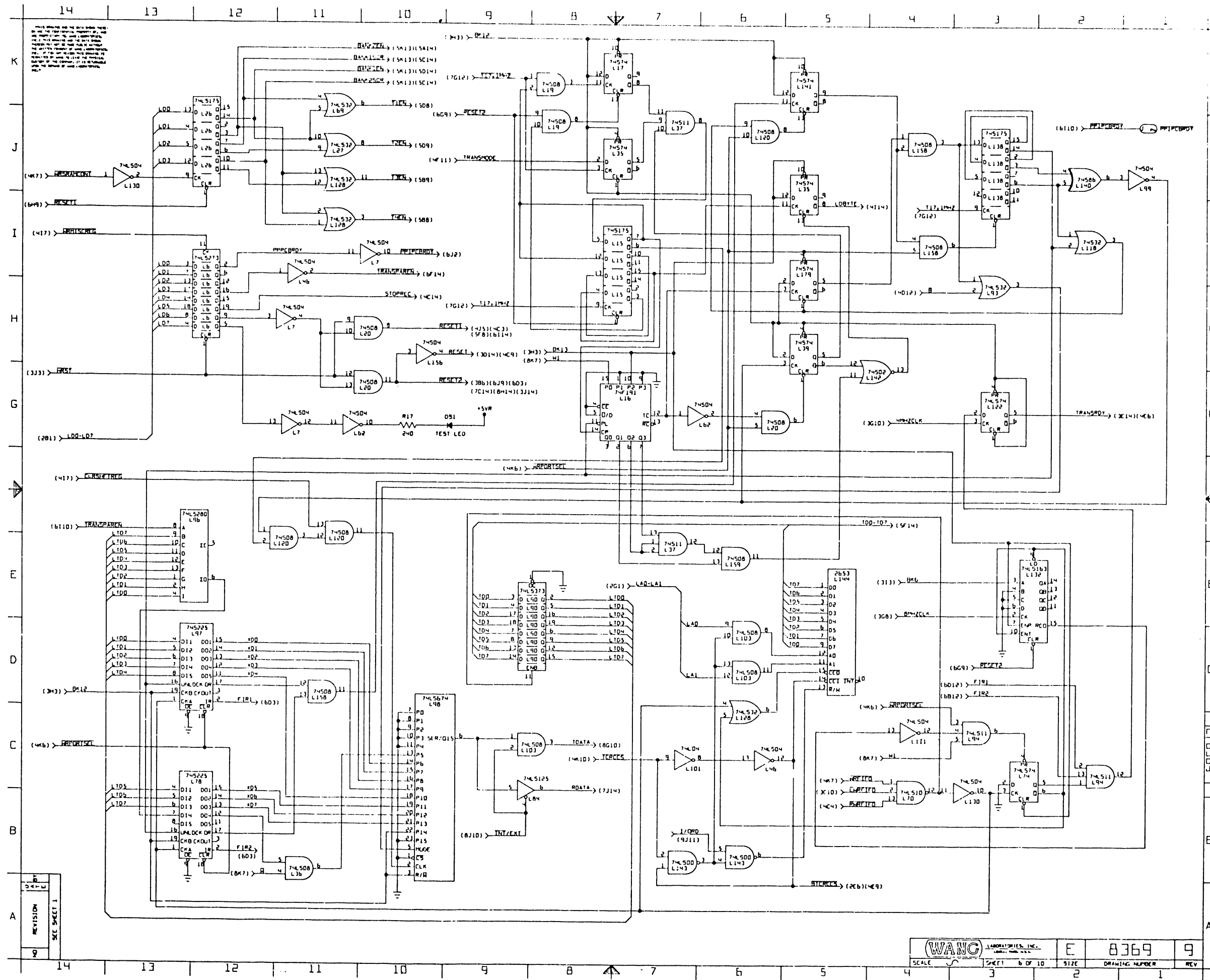




THIS DRAWING AND THE DATA THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

REVISION	DATE	BY	CHKD
1			

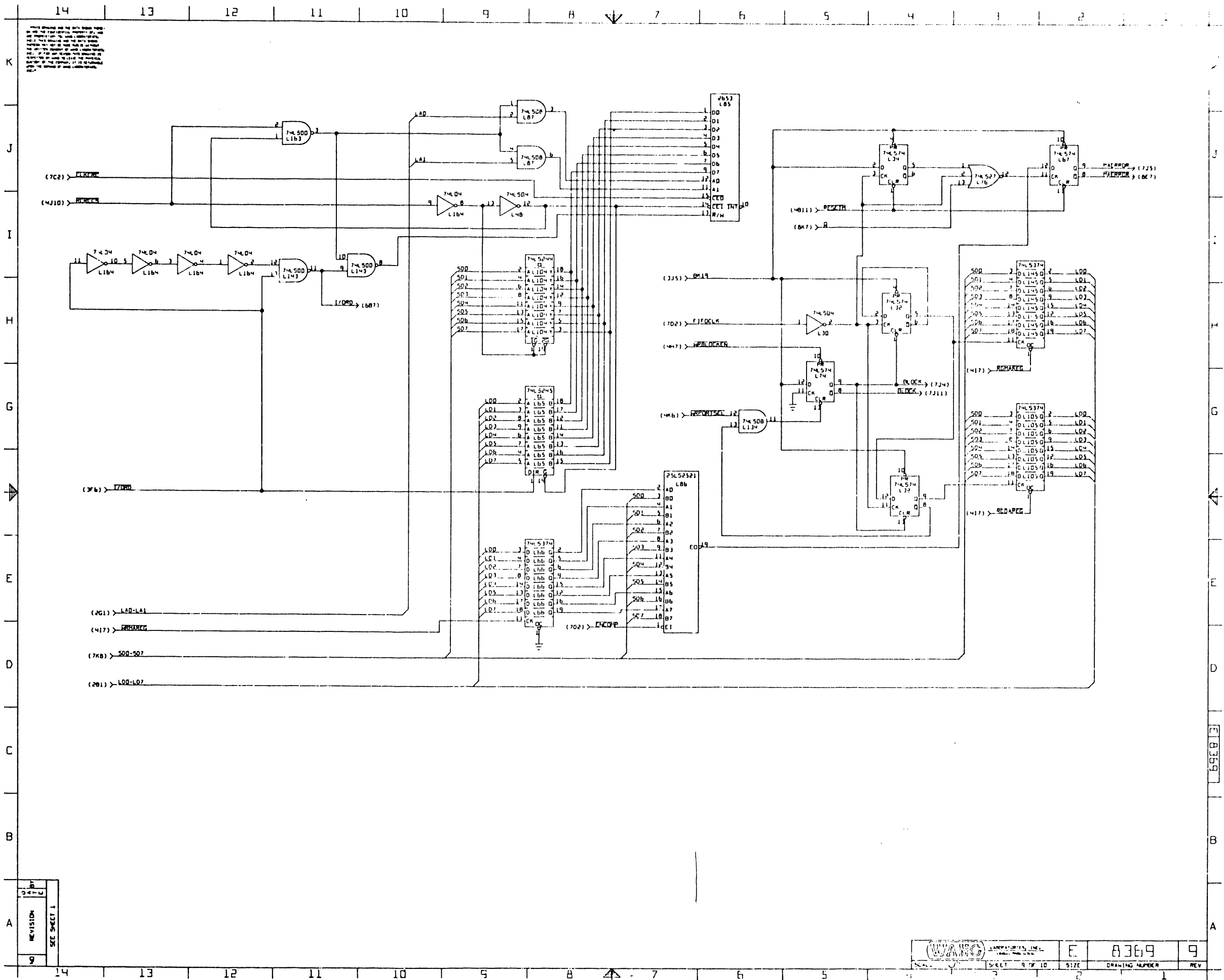
WANG LABORATORIES, INC.		E	8369	9
SCALE	SHEET 5 OF 10	SIZE	DRAWING NUMBER	REV



REV	DATE	SEC SHEET







Check drawing and the data before using it. Do not use this drawing for any other purpose. All rights reserved. This drawing is the property of the company and is not to be distributed, copied, or reproduced in any form without the written permission of the company. If it is reproduced without the written permission, the user assumes all liability for any and all consequences.

NO	REVISION	SEE SHEET 1

WANG ELECTRONICS, INC.		E	8369	9
SHEET	9 OF 10	SIZE	DRAWING NUMBER	REV

14 13 12 11 10 9 8 7 6 5 4 3 2 1

REVISIONS AND THE DATE WHEN MADE. ALL THE PARTS LISTED IN THIS DRAWING ARE TO BE USED EXCEPT WHERE SHOWN OTHERWISE. THIS DRAWING IS THE PROPERTY OF WANG AND SHOULD BE KEPT IN THE OFFICE OF THE ENGINEER IN CHARGE. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG.

K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A

ITEM	REFERENCE DESIGNATOR	DESCRIPTION	WANG PART NO	QTY
1	L1, 4, 2, 47, 64, 68, 147	74LS157	376-0216	7
2	L2, 22, 177	74LS158	376-0301	3
3	L3, 44	75107	376-0146	2
4	L4, 23	MC3487	376-0577	2
5	L5, 73, 172, 71, 123, 104, 170	74LS244	376-0621	7
6	L6, 11	74LS273	376-0102	2
7	L7, 30, 3, 48, 46, 111, 149, 130, 136	74LS04	376-0180	9
8	L8	74LS139	376-0226	1
9	L9	74LS139	376-0333	1
10	L10, 92	74LS02	376-0208	2
11	L12	26LS32	376-0471	1
12	L13, 33	26LS31	376-0470	2
13	L14	74S260	376-0206	1
14	L15, 138, 18, 119	74S175	376-0270	4
15	L16, 40	74F191	376-0581	2
16	L17, 35, 35, 141, 157, 175, 176, 179, 180, 179	74S74	376-0202	10
17	L19, 25, 80, 159, 120, 158	74S08	376-0200	6
18	L21, 113	74S116P-2	377-0403	2
19	L24, 25	LS2538	376-0569	2
20	L26, 88	74LS175	376-0160	2
21	L27, 67, 93, 128, 129, 131, 135, 174	74LS32	376-0211	8
22	L28	74LS20	376-0210	1
23	L29, 35, 72, 87, 103, 105, 113, 131	74LS00	376-0153	8
24	L31	74LS191	376-0445	1
25	L32, 3, 51, 52, 67, 74, 83, 144, 122, 127, 136, 152, 154, 168	74LS74	376-0155	14
26	L37	74S11	376-0237	1
27	L38, 76	74LS27	376-0245	2
28	L45	74LS251	376-0222	1
29	L49, 106, 50	74LS155	376-0159	3
30	L53-b1	74S64-2	377-0417	9
31	L62, 99, 139	74S04	376-0197	3
32	L63, 77	9517A-4	377-0411	2
33	L65, 74, 102, 110, 129, 141, 151, 152, 169, 170, 171, 181, 182, 183, 184, 185, 186	74LS245	376-0285	8
34	L69, 101, 101, 182, 183, 184, 185, 186	74LS374	376-0286	7
35	L75, 84, 87, 137, 173	74LS125	376-0486	5
36	L81	Z80ACPU	377-0368	1
37	L82, 121	8166	376-0553	2
38	L85, 144	2653	377-0441	2
39	L88, 97, 146, 167	74S225	376-0323	4
40	L86	LS2521	376-0317	1
41	L90, 151, 165, 149	74LS373	376-0310	4
42	L94	74LS11	376-0225	1
43	L95	74LS367	376-0192	1
44	L96, 125	74LS280	376-0242	2
45	L70	74LS10	376-0209	1
46	L91	74S138	376-0298	1
47	L98	74LS674	376-0580	1
48	L101, 164	74LS04	376-0181	2
49	L112, 114	Z80AC1C	377-0371	2
50	L117, 142	74S02	376-0199	2
51	L118	74S32	376-0205	1
52	L124	7407	376-0056	1
53	L126	8273	376-0350	1
54	L132	74LS163	376-0574	1
55	L140	74S86	376-0271	1
56	L153, 143, 163	74LS00	376-0207	3
57	L150	74S151	376-0336	1
58	L160	74S174	376-0247	1
59	L162, 183	2732A-2	377-0452	2
60	L166	74LS86	376-0231	1
61	L171	74S163	376-0235	1
62	L176	74S280	376-0246	1
63	L181	74S00	376-0228	1

ITEM	REF DESIGNATOR	DESCRIPTION	WANG PART NO	QTY
64	Y1	4042 XTAL	321-1004	1
65	Y2	17.1MHz XTAL	321-1006	1
66	L53-b1	16 PIN SKT	376-4002	9
67	L63, 77, 81	40 PIN SKT	376-9011	3
68	L21, 113, 162, 183	24 PIN SKT	376-9003	4
69	DS1	RED LED	370-0075	1
70	J5, J6	34 PIN CONN	358-0429	2
71	J7	98 DEC SPIN	350-0234	1
72	J8	2 PIN HDR	350-0203	1
73	L112, 114	28 PIN SKT	376-9015	2
74	R24, 25, 27	4.7K SIP	333-9812	3
75	R24A	4.7K 1/4W 5%	330-3048	1
76	R1, 5, 7, 1	910HM 1/4W 5%	330-1092	4
77	R2, 6, 8, 12	3900HM 1/4W 5%	330-2040	4
78	R3, 9, 13, 15, 19, 18, 20, 21	1000HM 1/4W 5%	330-2011	8
79	R4, 10, 14, 16	2700HM 1/4W 5%	330-2028	4
80	R17	2400HM 1/4W 5%	330-2025	1
81	R22, 23, 26	330HM 1/4W 5%	330-1034	3
82	C18, 113, 114, 115, 116	15UF 20V TANT	300-4022	5
83	C19-26	.05UF 16V	300-1930	8
84	C27, 28, 30, 35, 36, 37, 38, 39	.01UF 25V	300-1903	19
85	C47, 48, 50, 56, 58	1UF (10%) 50V	300-1931	9
86	C1, 3, 29, 11-17, 37, 27, 28, 33, 34, 40-45, 46, 38, 53, 59, 69, 53, 59, 61-76, 30-32, 77-93, 95-112	.047UF 50V	300-1966	81
87				
88				
89	Y1, Y2	SKT 14 PIN	376-9077	2
90		4-40X3/8 SCREWS	650-2122	4
91		FACEPLATE	452-2835	1
92		PREH NUT	652-0075	4

E 0369

REVISION	DATE

WANG LABORATORIES, INC.		E	8369	9
SCALE	SHEET 10 OF 10	SIZE	DRAWING NUMBER	REV







IOP0 J28			IOP1 J32			IOP2 J36			IOP3 J40			IOP4 J44			IOP5 J48		
Z	±0V	22 ±0V															
Y	+5VVR(2)	+5VVR(2)															
X	-5VR	-5VR															
W		19															
V	18	BMA3															
U	BMA4	17 BMA3															
T	BMA6	16															
S	15																
R	14																
Q	13																
N	12																
M	11																
L	10																
K	9																
J	-13VVR	-13VVR															
H	7																
F	±0V	6 ±0V															
E	±0V	5 ±0V															
D	BMDL7	4 BMDL6															
C	BMDL3	3 BMDL4															
B	BMDL3	2 BMDL2															
A	BMDL1	1 BMDL0															

J27			J31			J35			J39			J43			J47		
Z	BMDH2	22 BMDH3															
Y	BMDH4	21 BMDH5															
X	BMDH6	20 BMDH7															
W	BMDH1	19 BMDH0															
V	18																
U	17																
T	16																
S	15																
R	MM8	14 MM0															
Q	MM9	13 MM1															
N	MM10	12 MM2															
M	MM11	11 MM3															
L	MM12	10 MM4															
K	MM13	9 MM5															
J	MM14	8 MM6															
H	MM15	7 MM7															
F	6																
E	5																
D	4																
C	3																
B	2																
A	1																

J26			J30			J34			J38			J42			J46			J50		
S	15																			
R	14																			
Q	13																			
N	12																			
M	11																			
L	10																			
K	9																			
J	+12VR	8 +12VR																		
H	DAB5	7 DAB4																		
F	DAB3	6 DAB2																		
E	DAB1	5 DAB0																		
D	DAB7	4 DAB6																		
C	CCB1	3 CCB2																		
B	+5VVR(2)	+5VVR(2)																		
A	±0V	1 ±0V																		

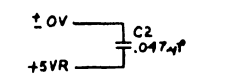
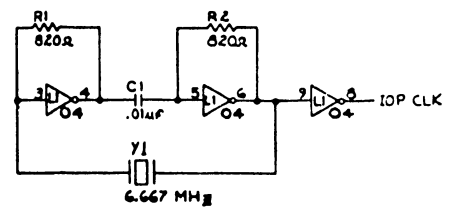
J25			J29			J33			J37			J41			J45		
S	±0V	15 ±0V															
R	MM16	14 ±0V															
Q	±0V	13 MGS1															
N	PCB3	12 ±0V															
H	±0V	11 PCB51															
L	PCB30	10 ±0V															
K	±0V	9 PCB10															
J	MMCB1	8 ±0V															
H	±0V	7 MMCB2															
F	MMP	6 ±0V															
E	±0V	5 MCG5															
D	±0V	4 ±0V															
C	±0V	3 ±0V															
B	±0V	2 ±0V															
A	±0V	1 ±0V															

COMPONENT	TYPE	W.L. PART NO.
R1,2	B20A 74W 5E	330-2083
C1	.01uF 25V	300-1903
C2	.047uF 50V	300-1966
Y1	6.667 MHZ	321-0021
J1,4,7,10,13,16,18,22	80 PIN CONN.	350-0533
J2,3,5,6,8,3,11,12,14,15,17,18,20,21,23,24	100 PIN CONN.	350-0534
J25,26,29,30,33,34,37,39,41,42,45,48	30 PIN CONN.	350-0011
J27,4,3,17,14,1	44 PIN CONN.	350-0013
J14,3,4,40,44,48	44 PIN CONN.	350-3021
J49	26 PIN CONN.	350-0085
J50	4 PIN CONN.	350-0215

LOC. LOCATION	TYPE	W.L. PART NO.
L1	7404	SEE CHART
L1	5KT 14 PIN	376-9001

TYPE	LOCATION	SPARES
7404	L1	3

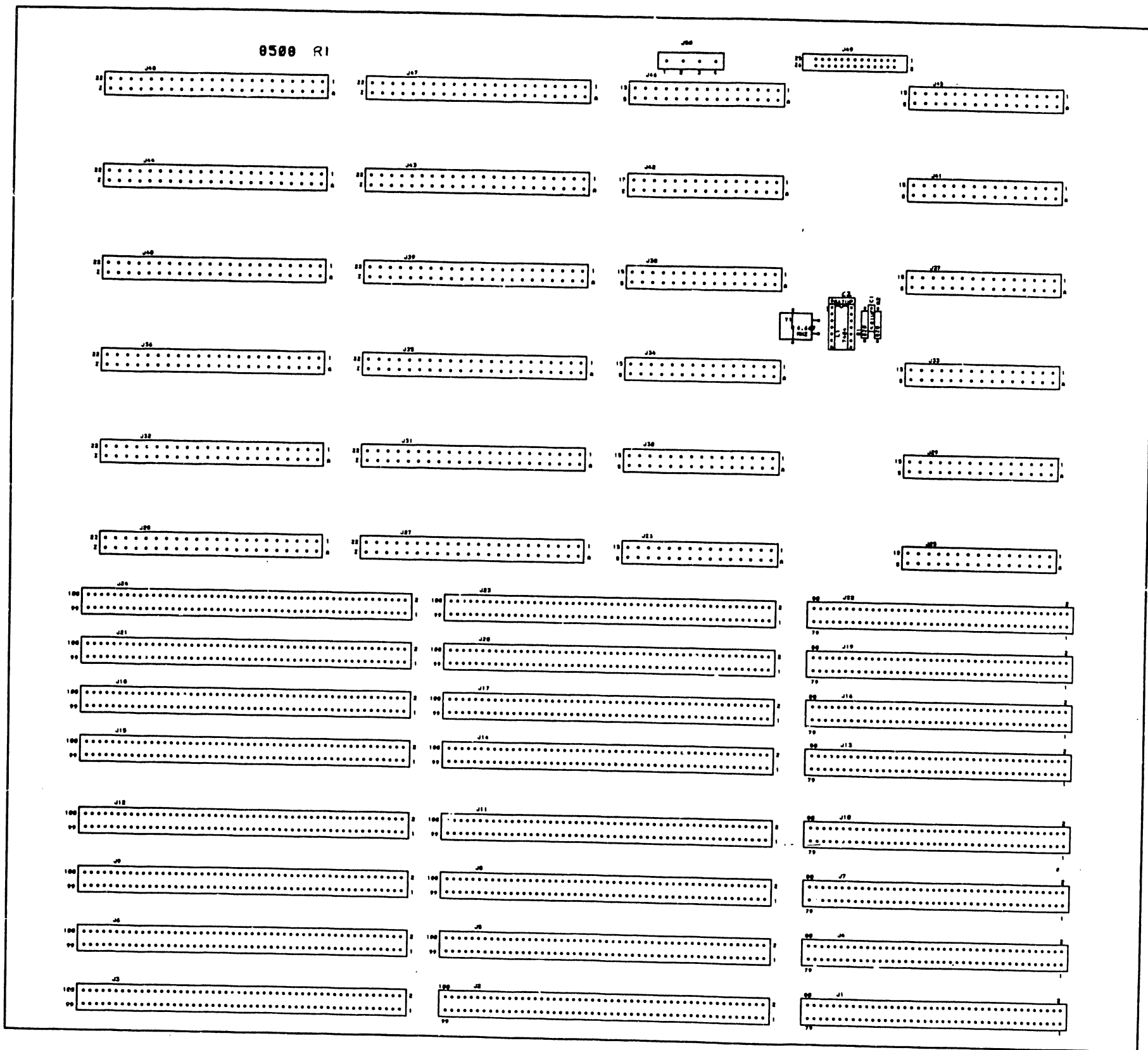
J49		
26	±0V	25 ±0V
24	+5VVR(2)	23 +5VVR(2)
22	INIT	21 LB
20	CM	19 TR3
18	CMERR1	17 CMERR0
16	CMERR3	15 CMERR2
14	CMERR5	13 CMERR4
12	11	
10	9	
8	7	
6	5	
4	3	
2	±0V	1 ±0V



210=209+377 OR 378		
210	209	L1
8508-A	8508	396-0010

<b>(WANG)</b>		DATE: 8/11/80	BY: JMM
VS-03A		REV: 1	APP: JMM
CPU/IO MOTHER BD. M/L			
SEE CHART		E	8508 2

14 13 12 11 10 9 8 7 6 5 4 3 2 1



34  
22  
17  
11  
8.5  
8.5"  
11"  
17"  
22"

22  
17  
11  
8.5  
8.5"  
11"  
17"  
22"

NOTES: 1. ALL RESISTORS ARE 1/4W, 5% UNLESS OTHERWISE SPECIFIED.  
2. SIGNALS 1 & 2 & 4 MAY BE RUN AS A TWISTED PAIR (SOLDER SIDE).  
SIGNALS 3 & 4 & 5 MAY BE RUN AS A TWISTED PAIR (SOLDER SIDE).

E'-REV  
1

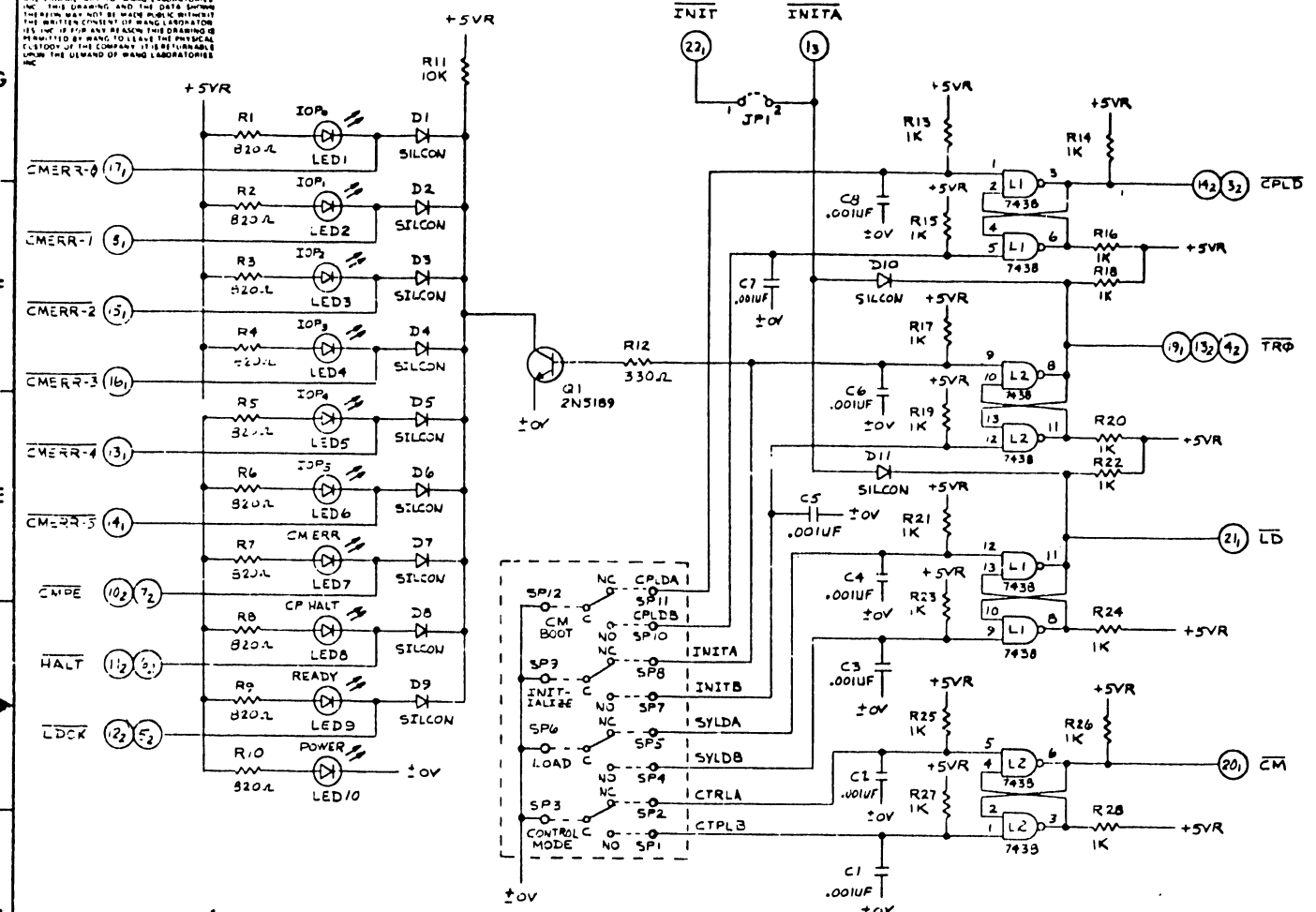
ORIGINATED PER DATE: 1/18/85	DESIGNED BY DATE: 1/18/85	REVIEWED BY DATE: 1/18/85	REVISED PER DATE: 1/18/85
1	2	3	4

<b>(WANG)</b>		BY	DATE	APPROVED BY	DATE
PROJECT NO. 1002A		DATE	DATE	DATE	DATE
REV. 05A		TITLE			
CPU/IO MOTHER BD M/L		E 850B			
SHEET NO. 2		TOTAL SHEETS 2			

34

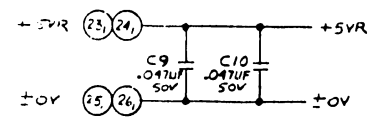
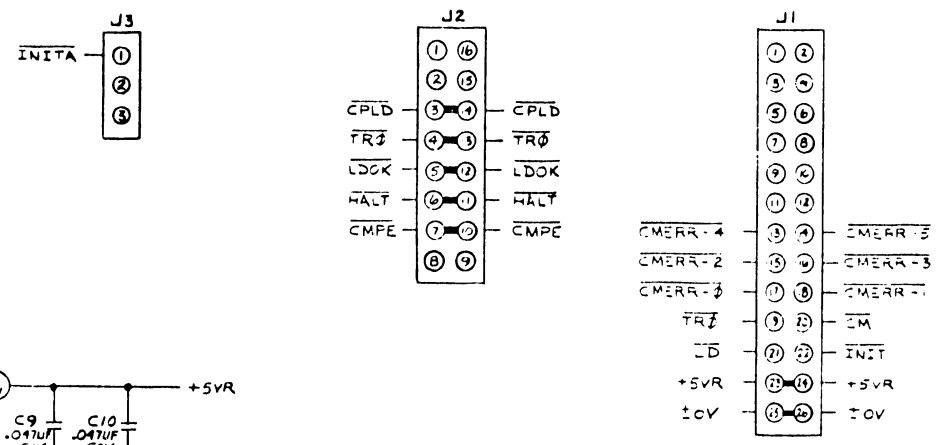
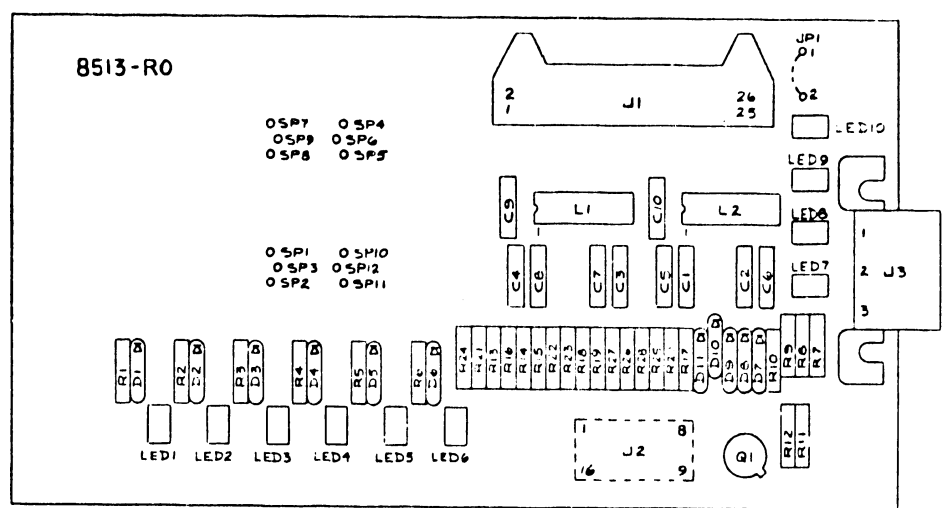
14 13 12 11 10 9 8 7 6 5 4 3 2 1

THIS DRAWING AND THE DATA HEREON ARE THE CONFIDENTIAL PROPERTY OF AND ARE LOANED TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA HEREON ARE NOT TO BE REPRODUCED, COPIED, OR IN ANY MANNER DISCLOSED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF YOU ARE NOT AN EMPLOYEE OF WANG LABORATORIES, INC. YOU ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC.



COMPONENT	TYPE	WL PART NO
R1-10	820 Ω 1/4W 5%	330-2083
R11	10K 1/4W 5%	330-4011
R12	330 Ω 1/4W 5%	330-2034
R13-28	1K 1/4W 5%	330-3011
C1-8	.001UF 500V	300-1906
C9,10	.047UF 50V	300-1966
D1-11	SILICON	380-1001
LED1-10	LAMP, RED-CM1264	370-0031
Q1	2N5189	375-1021
J1	CONN 26 PIN	350-0038
J2	SKT, 16 PIN	376-3024
J3	CONN 3 PIN	350-0223

IC LOCATION	TYPE	WL PART NO
L1, 2	7438	376-0128

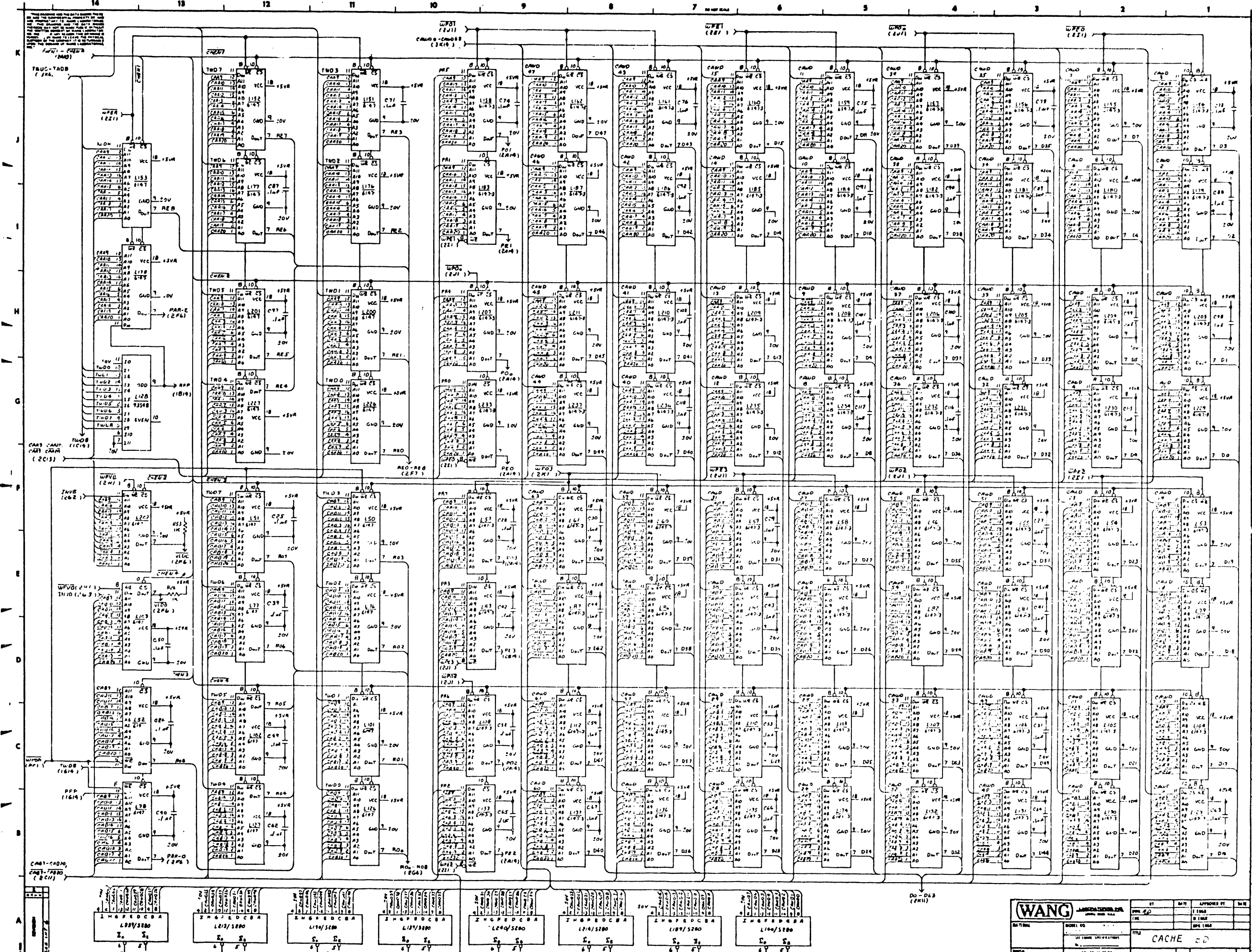


NOTE:  
ALL RESISTORS ARE 1/4W, 5%,  
UNLESS OTHERWISE SPECIFIED.

E-REV

REV	DATE	DESCRIPTION
1	11/1/74	ORIGINAL
2	11/1/74	PER DWG E189
3	11/1/74	APP'D: [Signature]

WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
		WANG LABORATORIES, INC. LORILL BAUBA	DWYER, B. J.	3/1/74	LENER, J. GURU	4/1/74
		MODEL NO. FJ822 VS-95A	CHEN, A.	1/1/74	MENGE	
		TITLE	FRONT PANEL BD			
		FINISH	2/0-8513			



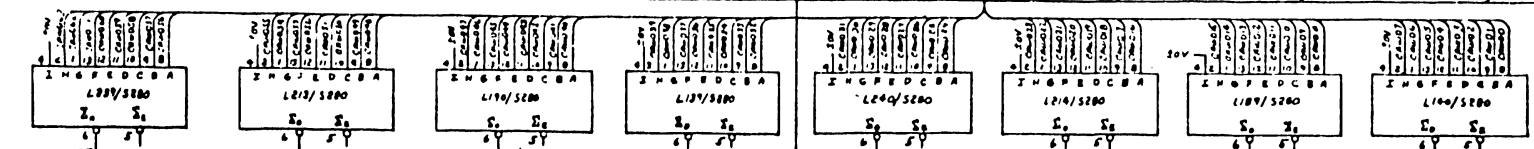
THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

77  
 11  
 58

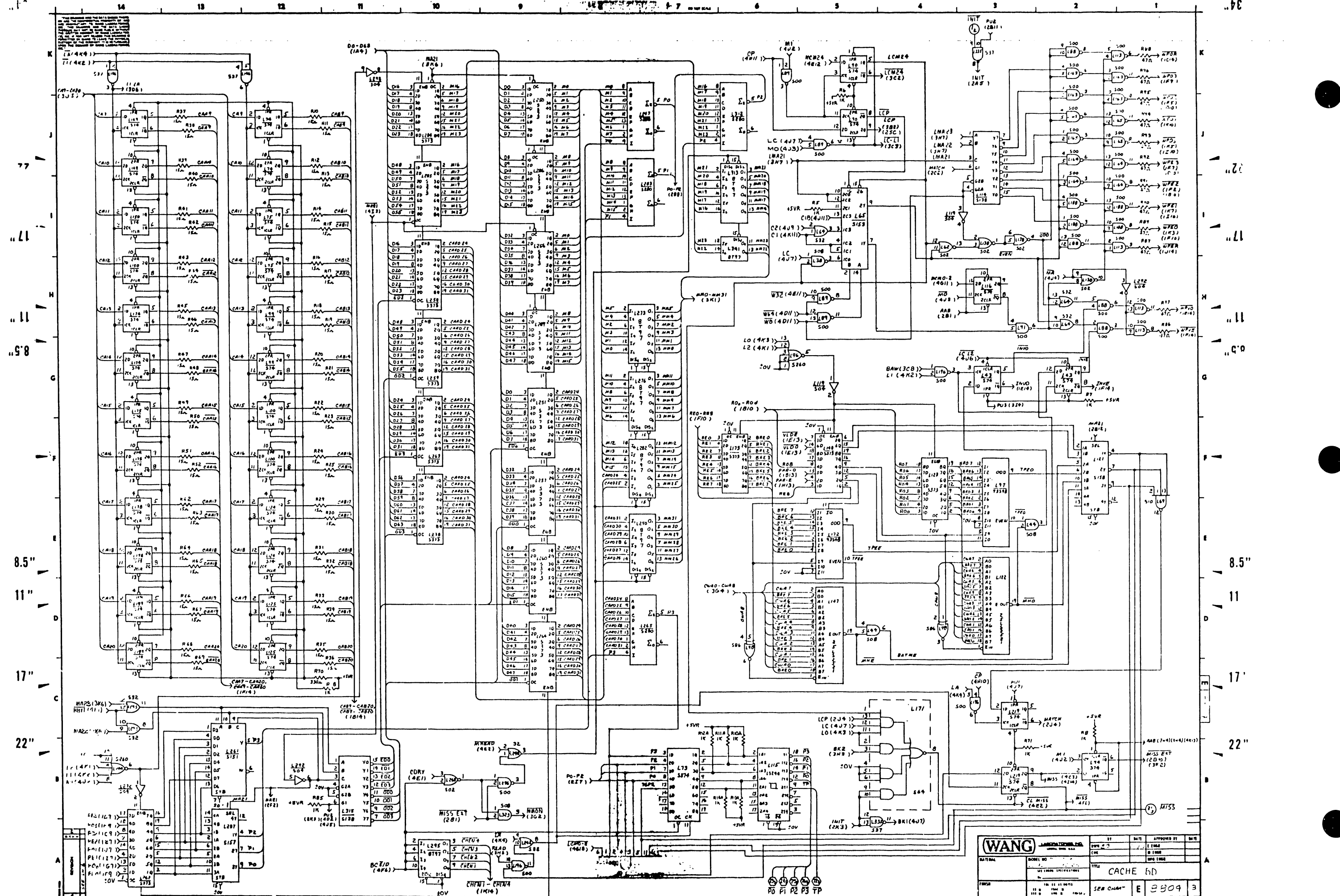
8.5"  
 11"  
 17"  
 22"

34

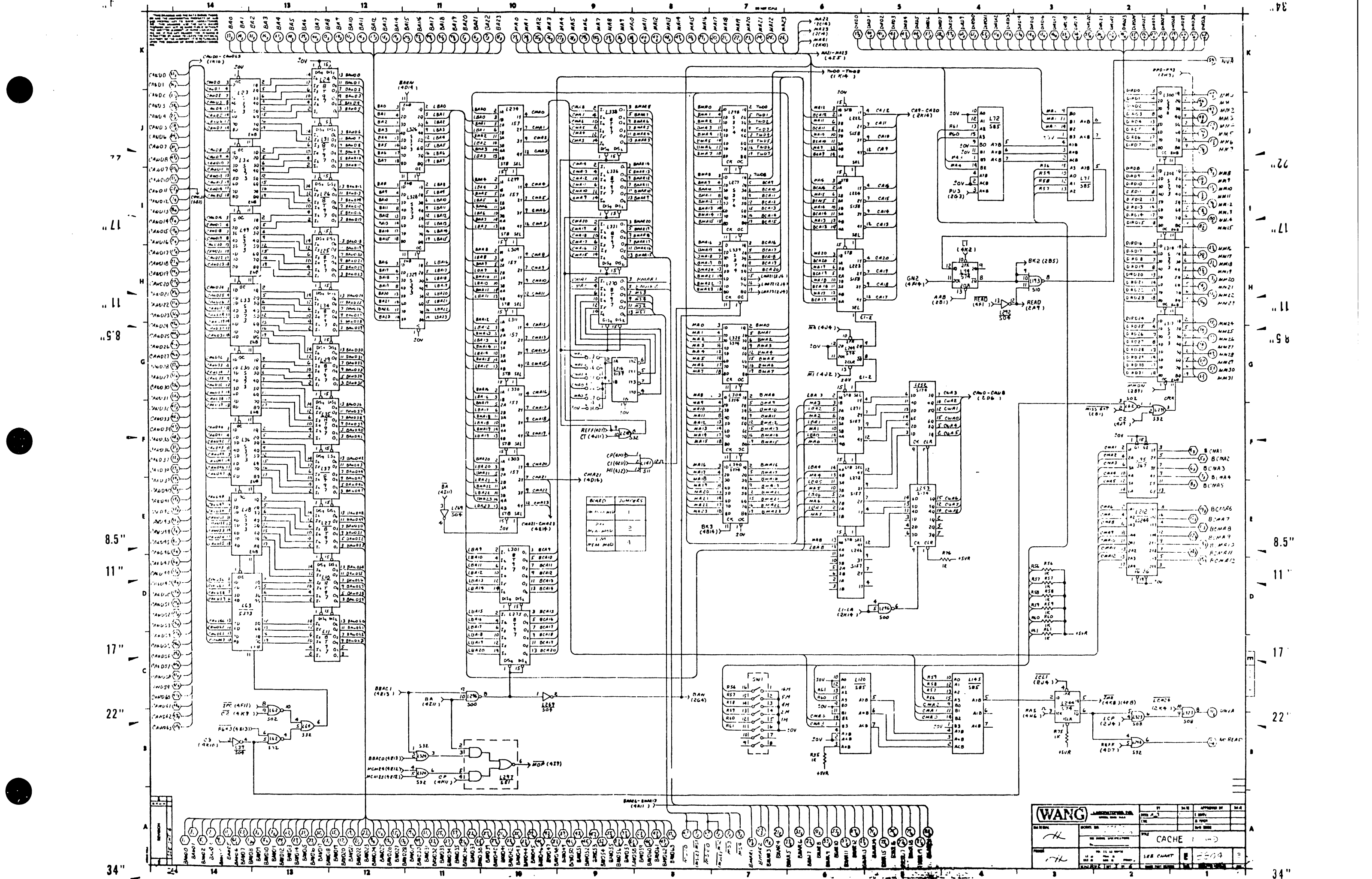
34  
 22  
 17  
 11  
 8.5  
 22  
 34



<b>WANG</b> LABORATORIES, INC.		ST	DATE	APPROVED BY	SCALE
MODEL NO.		REV. NO.	DATE	BY	SCALE
TITLE		CACHE			
DRAWN BY		LEE CHANG			
CHECKED BY		E 5804			
DATE		1964			



<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO.				
TITLE: CACHE 6D				
SERIAL NO.		REV	E 3904	3



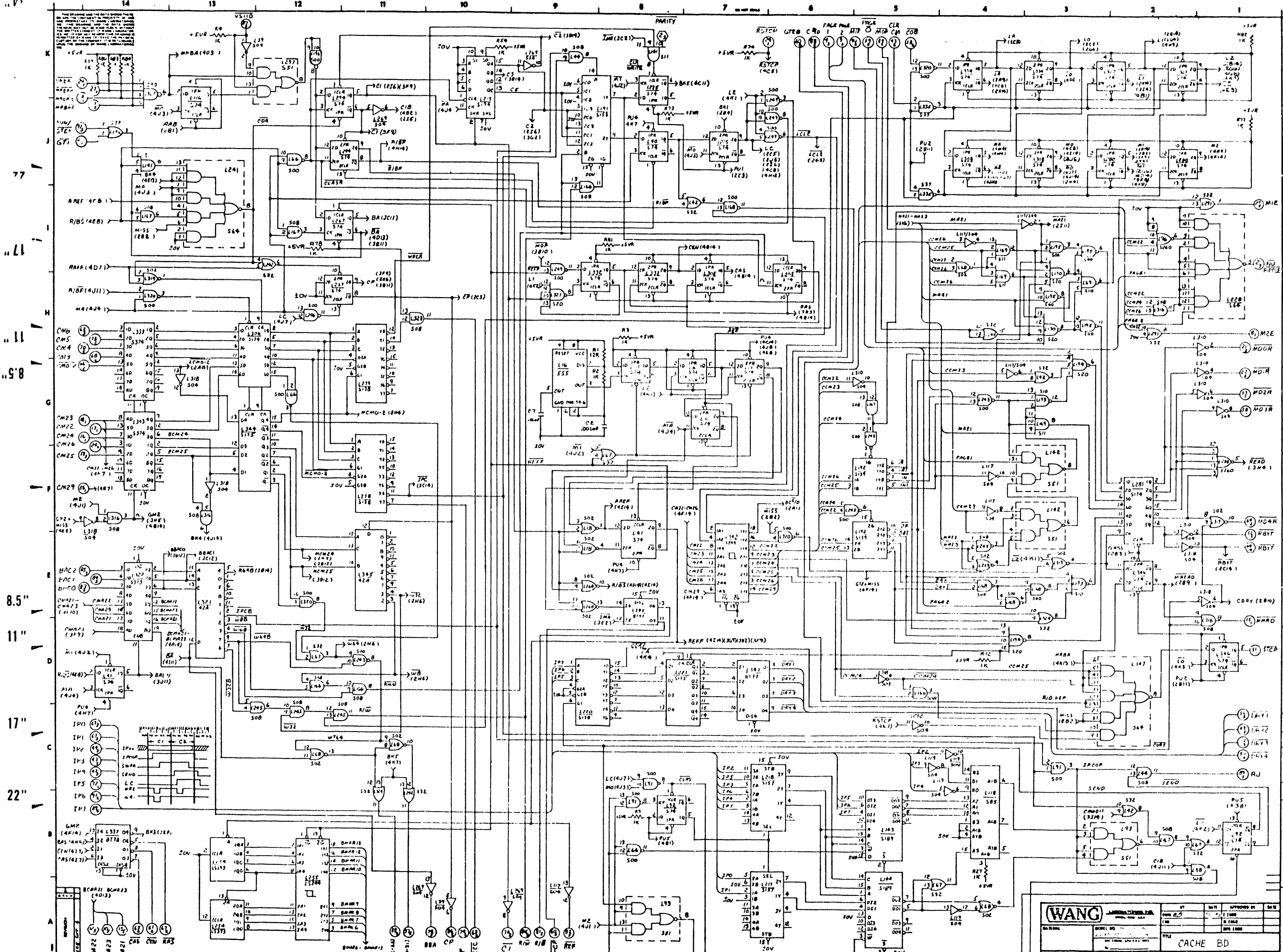
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A

77  
71  
65  
58  
8.5"  
11"  
17"  
22"  
34"

78  
72  
71  
65  
58  
8.5"  
11"  
17"  
22"  
34"

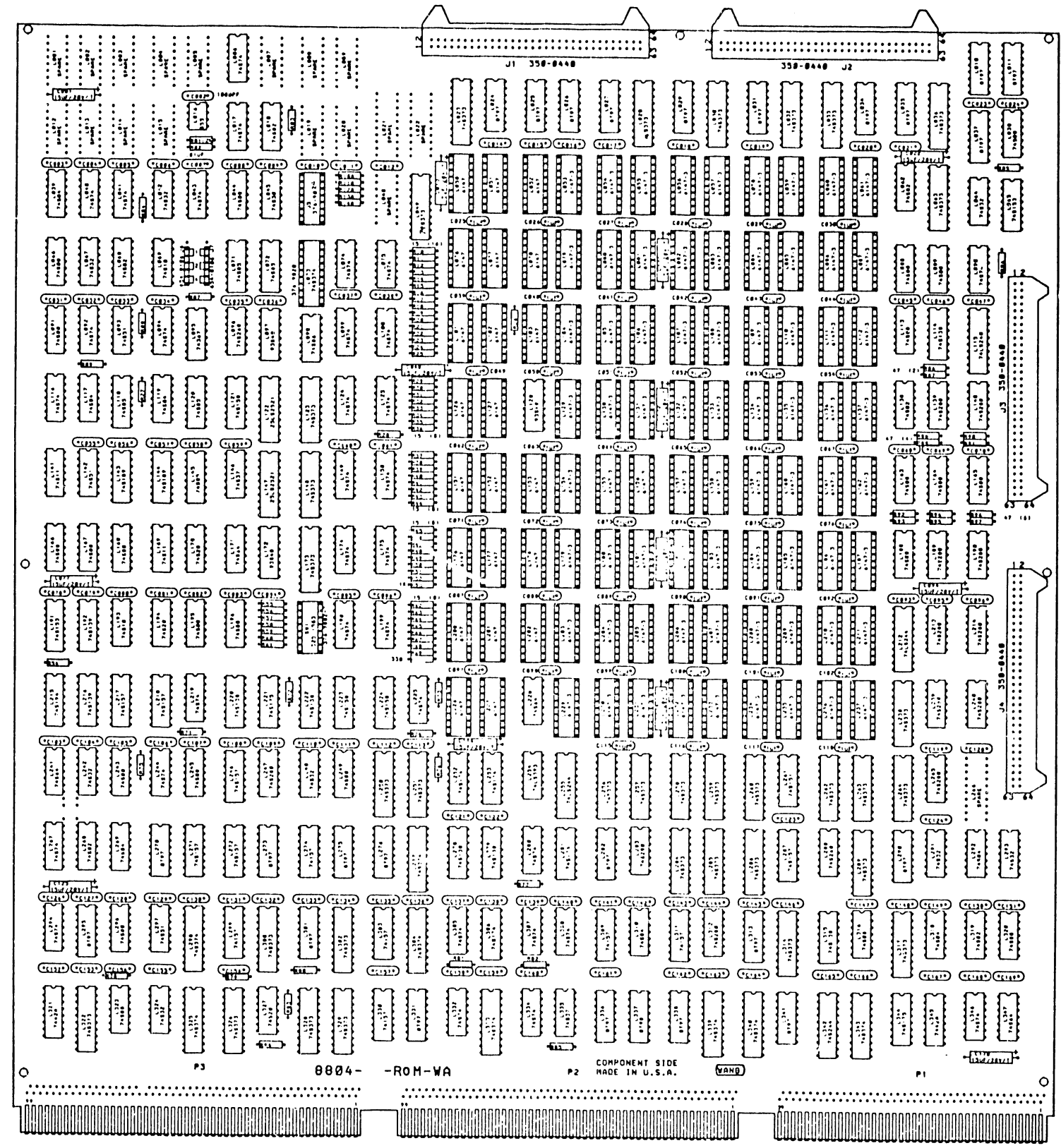
<b>WANG</b>		DATE	BY	APPROVED BY	NO.
MODEL NO.		REV.	DATE	BY	NO.
SERIAL NO.		CACHE			
PART NO.		3309			



		DATE	APPROVED BY	DATE
		DESIGNED BY	DESIGNED BY	DESIGNED BY
TITLE <b>CACHE BD</b>		REV	REV	REV
PART NO. <b>3804</b>		REV	REV	REV
DRAWN BY <b>E</b>		REV	REV	REV
CHECKED BY <b>3</b>		REV	REV	REV

14 13 12 11 10 9 8 7 6 5 4 3 2 1

77  
17  
11  
8.5  
8.5  
11  
17  
22



77  
17  
11  
8.5  
8.5  
11  
17  
22

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SALE SHEET 6													

<b>WANG</b>		DATE	APPROVED BY	DATE
MODEL NO. 7200-A		DATE	APPROVED BY	DATE
TITLE		CACHE 80		
DRAWN BY		J. L. CHART		
CHECKED BY		E 8804		
DATE		3		

34"

34"



Component type, value, and quantity information.

Component list table with columns: COMPONENT, TYPE, ML PART NO.

Table with columns: TYPE, LOCATION, QUANTITY.

Table with columns: SYMBOL, TYPE, ML PART NO.

Table with columns: SYMBOL, TYPE, ML PART NO.

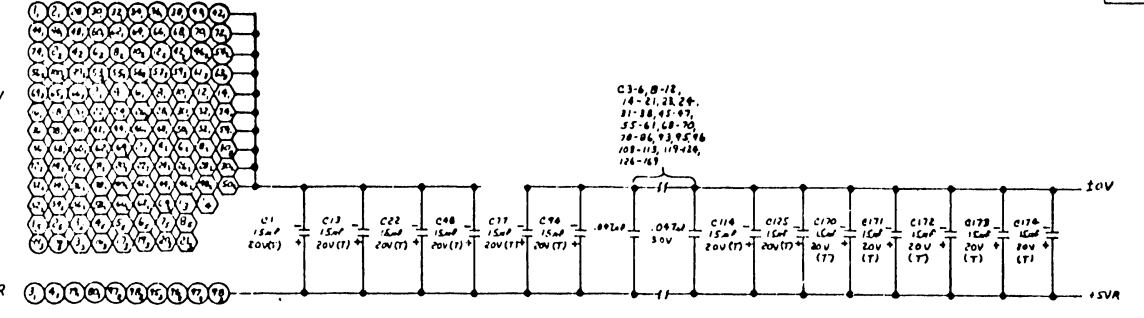
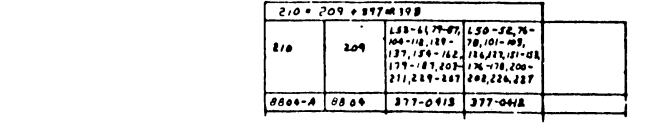
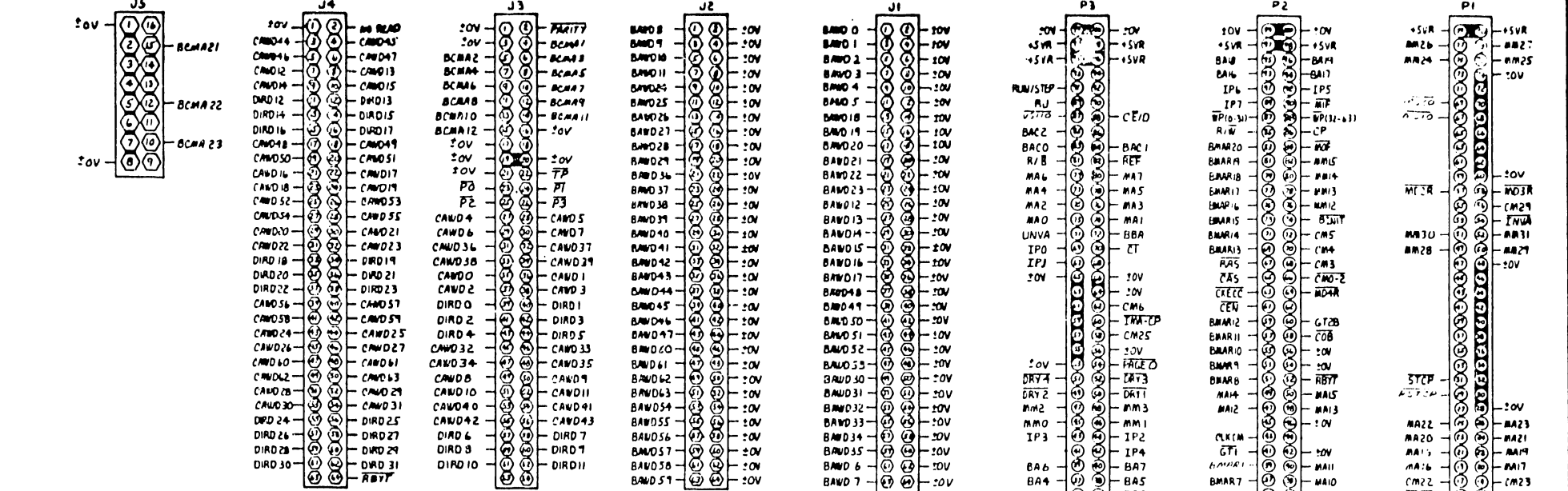
Table with columns: SYMBOL, TYPE, ML PART NO.

Table with columns: SYMBOL, TYPE, ML PART NO.

Table with columns: SYMBOL, TYPE, ML PART NO.

Table with columns: SYMBOL, TYPE, ML PART NO.

Table with columns: SYMBOL, TYPE, ML PART NO.

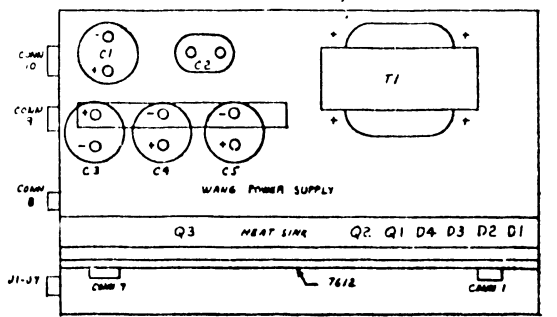
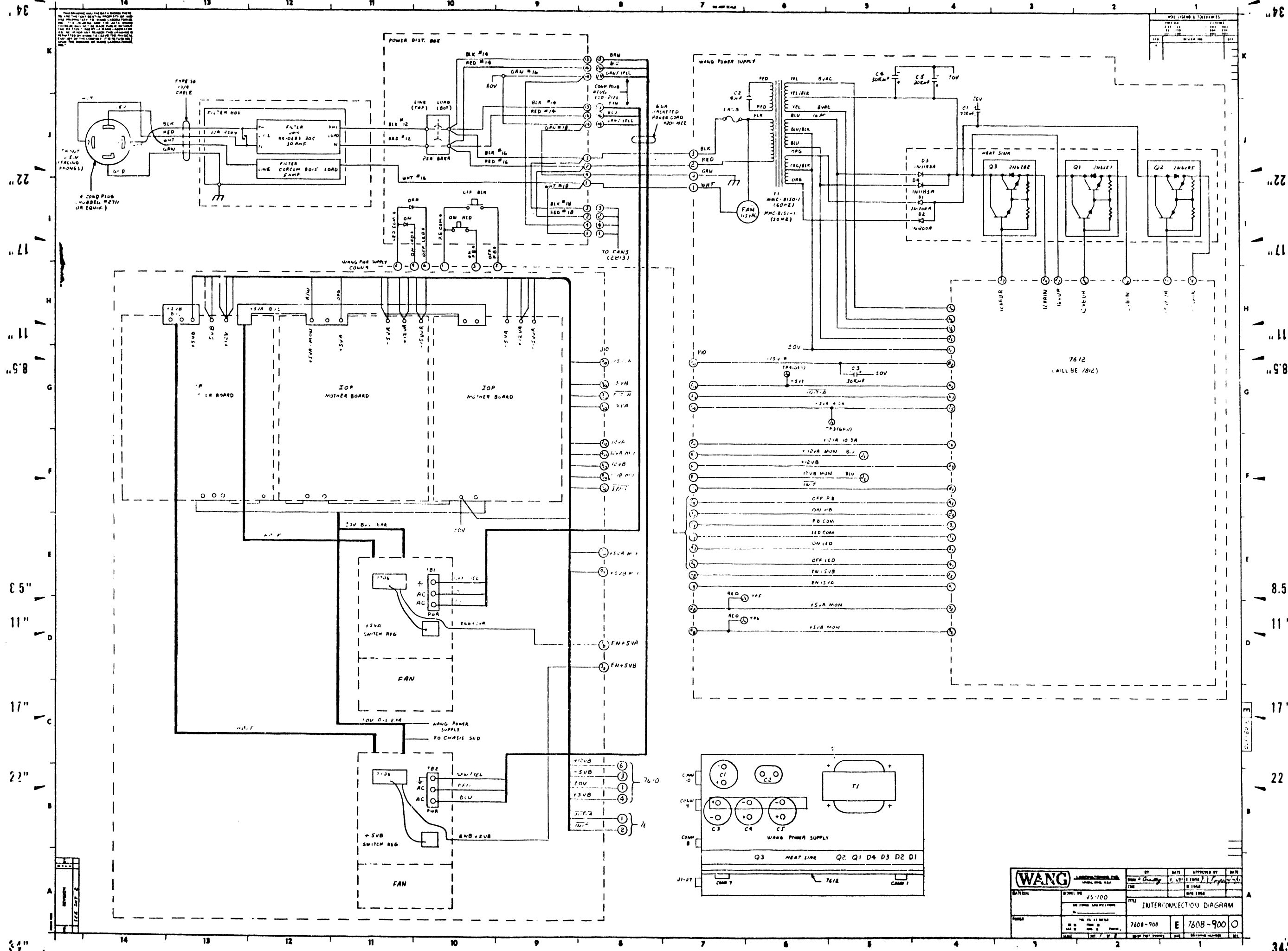


Large component list table with multiple columns: SYMBOL, TYPE, ML PART NO.

WANG logo and project information form.

THIS IS A WANG 7600 SERIES POWER SUPPLY. IT IS DESIGNED TO PROVIDE THE FOLLOWING VOLTAGES AND CURRENTS TO THE SYSTEM:

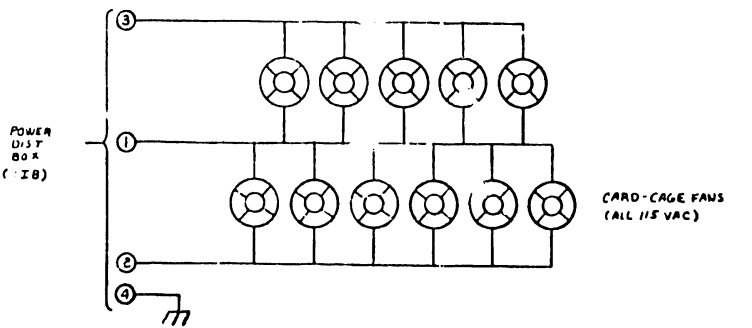
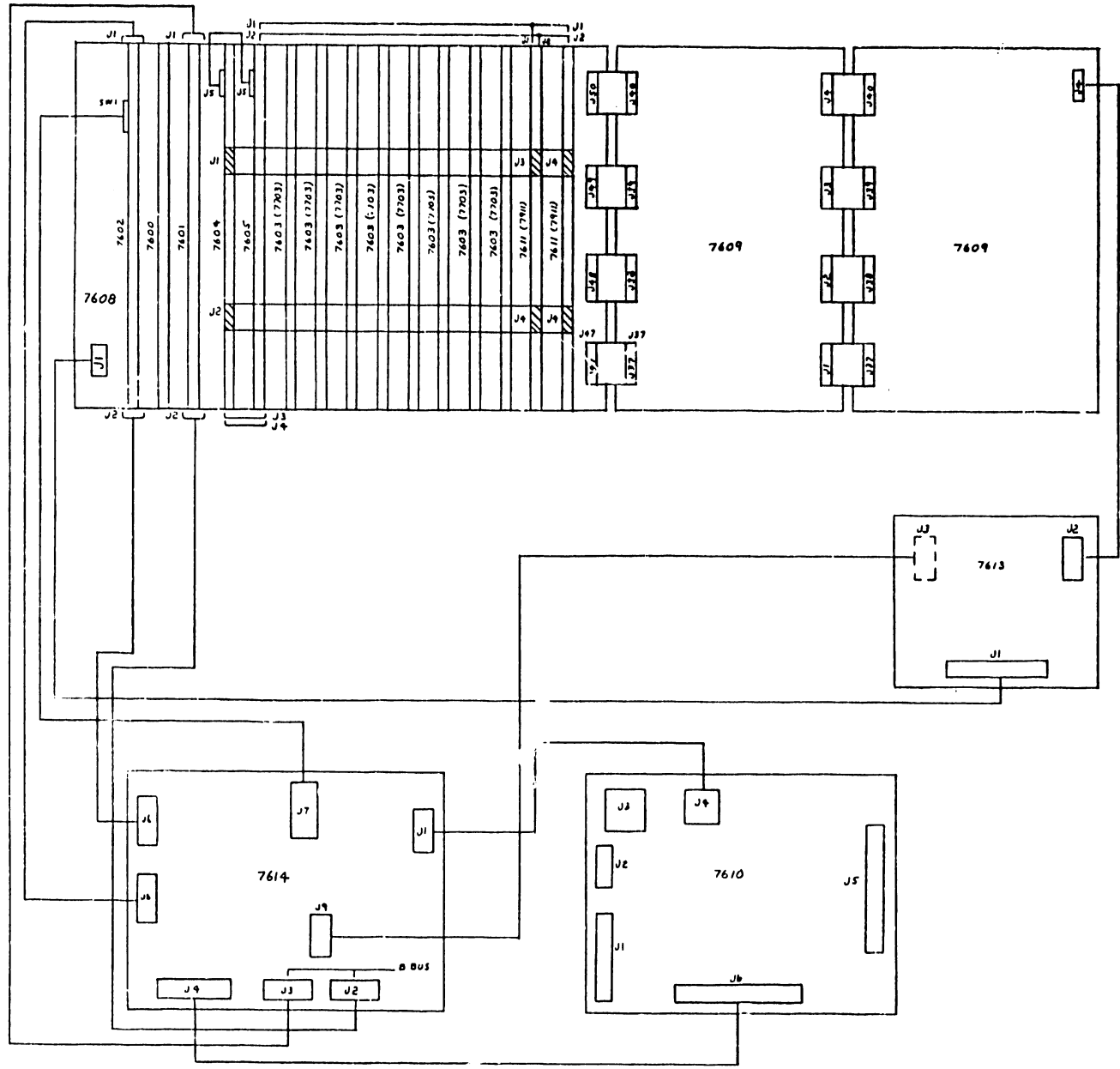
VOLTAGE	CURRENT
+5V	1.0 AMP
+12V	0.5 AMP
+15V	0.5 AMP
-5V	0.5 AMP
-12V	0.5 AMP
-15V	0.5 AMP



<b>WANG</b>		DATE	APPROVED BY
DESIGNED BY	VS-100	DATE	DATE
TITLE		7600-900	
7600-900		E 7608-900	

THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE REPRODUCED AND TRANSMITTED IN ANY FORM AND BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT PRINTING OFFICE.

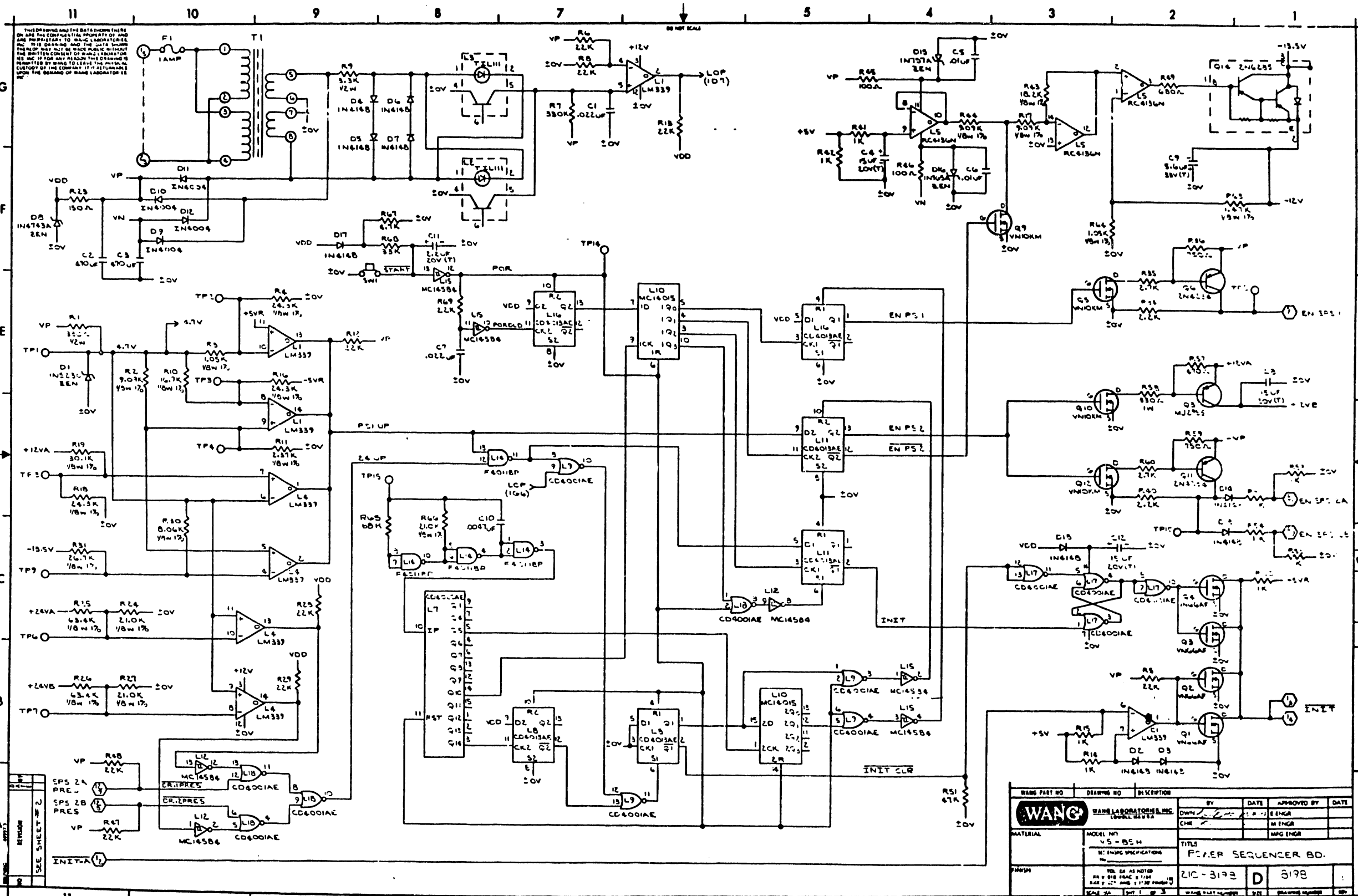
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION



REVISIONS		DATE		APPROVED BY		DATE	
NO.	DESCRIPTION						
1	ISSUED FOR CONSTRUCTION						

PROJECT NO.	VS-100	DATE	11/15/54
ISSUED FOR	CONSTRUCTION	BY	J. J. ...
INTERCONNECTING DIAGRAM		NO. OF SHEETS	1
		TOTAL SHEETS	1
		DATE	11/15/54
		BY	J. J. ...
		CHKD BY	J. J. ...
		APP'D BY	J. J. ...
		DATE	11/15/54



THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PRESENTED TO WANG LABORATORIES, INC. IN CONNECTION WITH THE DESIGN AND CONSTRUCTION OF THE WANG 720 SYSTEM. THE INFORMATION CONTAINED HEREIN IS TO BE USED ONLY FOR THE PURPOSES AUTHORIZED BY WANG LABORATORIES, INC. IN CONNECTION WITH THE WANG 720 SYSTEM. THE INFORMATION CONTAINED HEREIN IS TO BE KEPT CONFIDENTIAL AND IS NOT TO BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IN CONNECTION WITH THE WANG 720 SYSTEM.

SPS 2A PRE	1
SPS 2B PRE	2
INIT-A	3

WANG PART NO.	DRAWING NO.	DISCUSSION	DATE	APPROVED BY	DATE
<b>WANG</b> WANG LABORATORIES, INC. 1000 WASHINGTON ST. BOSTON, MASS. 02111					
MATERIAL	MODEL NO.	TITLE			
	V5-BSH	POWER SEQUENCER BD.			
FORM	NO. 68 AS NOTED	ZIC-3193	D	3/78	

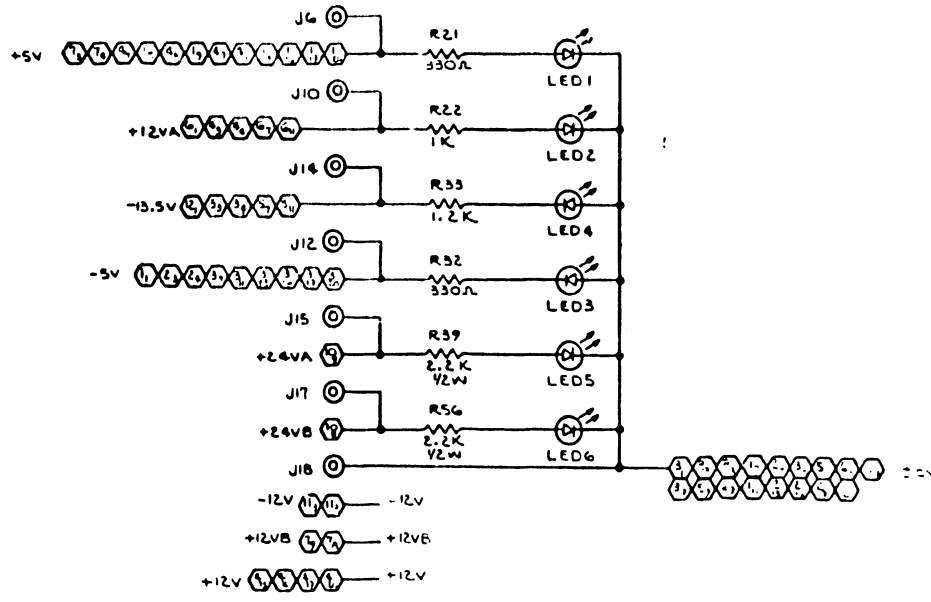
The drawings and the data shown here are the confidential property of Wang Laboratories, Inc. and should not be made public without the written consent of a Wang Laboratories representative. If it is necessary to make a copy of this drawing, the quantity of copies should be approved by the drawing office of the company. It is the policy of Wang Laboratories, Inc. to make drawings available to its customers.

TYPE	S.C. LOC	SPARE
MC14584	L12	3
	L15	2
RC4136N	L5	1

POWER				
VENDOR NO	WANG NO	SOURCE	PWR	QND
LM339	376-0240	V <sub>P</sub>	3	12
CD4001AE	376-0367	VDD (*)	14 (*)	7 (*)
F4011BP	376-0375	VDD	14	7
CD4013AE	376-0431	VDD	14	7
MC14015	376-0537	VDD		
MC14584	376-0508	VDD	14	7
CD4023AE	376-0397	VDD	14	7
CD4020AE	376-0369	VDD		
TIL III	375-2109	NONE		*
RC4136N	376-0425	*	*	*

\* SHOWN IN SCHEMATIC

NOTES:  
1) ALL RES. ARE 1/4W, 5% UNLESS OTHERWISE SPECIFIED.



E REV  
1

REVISION	DATE	BY	DESCRIPTION
1	11/11/79	...	...
2	11/11/79	...	...
3	11/11/79	...	...
4	11/11/79	...	...
5	11/11/79	...	...
6	11/11/79	...	...
7	11/11/79	...	...
8	11/11/79	...	...
9	11/11/79	...	...
10	11/11/79	...	...
11	11/11/79	...	...
12	11/11/79	...	...

WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			...	...	...	...
MATERIAL	MODEL NO	TITLE	CHK	DATE	DATE	DATE
	VS-BSH	POWER SEQUENCER ED.	...	...	...	...
FRSH	NO. IN AS NOTED	210-8198	D	8198		

QQ2

(FINAL PARTS LIST)

BOARD NO. & TITLE: C0198 POWER SEQUENCER BOARD  
 ASSEMBLY LEVEL & TITLE: 210  
 PARTS LIST REVISION (P): 0  
 AUTHORITY REVISION (R): 01  
 ASSEMBLY REVISION (A): 01  
 SCHEMATIC REVISION (S): 01  
 DRAWING MOST RECENT ECD: 313470

CREATED: 07/26/84 10:08  
 LAST MODIFIED: 09/26/84 09:23 BY: NS  
 EDITING REVISION: 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C6 - C6	300-1903-	.01U	CAP CERAMIC DISC +80% -20% 25V 25P		2
C1	300-1927-	.022U	CAP CERAMIC MONO RAD 10% 100V X7R		2
C7					
C2 - C3	300-3322-	470U	CAP AL EL RADIAL 20 % 35V		2
C11	300-4014-	2.2U	CAP TANT AXIAL 10% 20V		1
C9	300-4017-	0.6U	CAP TANT AXIAL 10% 35V		1
C4	300-4022-	15U	CAP TANT AXIAL 10% 20V		3
C2					
C12					
C10	300-5013-	.0007U	CAP MICA DIPPED 5% -.05V		1
SW1	320-0041-	SWITCH	MOMENTARY PUSH 90 DEG SPDT		1
R48 - R46	330-2011-	100.000	RES FIXED METAL FILM 1/4W 5% 200PPM		2
R23	330-2016-	150.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R21	330-2034-	330.000	RES FIXED METAL FILM 1/4W 5% 200PPM		2
R22					
R27	330-2040-	470.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R49	330-2060-	640.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R36	330-2076-	750.000	RES FIXED METAL FILM 1/4W 5% 200PPM		2
R59					
R14 - R18	330-2011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		10
R20					
R22					
R41 - R42					
R52 - R58					
R33	330-2012-	1.2K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R34	330-2023-	2.2K	RES FIXED METAL FILM 1/4W 5% 200PPM		2
R40					
R35	330-2020-	2.7K	RES FIXED METAL FILM 1/4W 5% 200PPM		2
R60					
R67	330-2040-	4.7K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R5 - R6	330-4023-	22K	RES FIXED METAL FILM 1/4W 5% 200PPM		10
R8					
R12 - R13					
R28 - R29					
R47 - R48					
R69					
R66	330-4034-	33K	RES FIXED METAL FILM 1/4W 200PPM		1

BOARD NO. & TITLE: C0198 POWER SEQUENCER BOARD SCHEMATIC REVISION (S): 01 SHEET OF PAGE 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
R61	330-4040-	47K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R65	330-4049-	60K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R7	330-5034-	330K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R1	331-2034-	330.000	RES FIXED 1/2W 5%		1
R39	331-3023-	2.2K	RES FIXED 1/2W 5%		2
R64					
R9	331-3034-	3.3K	RES FIXED 1/2W 5%		1
R58	332-2034-	330.000	RES FIXED 1/2W 5%		1
R2	333-0061-	9.09K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		3
R17					
R44					
R19	333-0063-	30.1K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R25 - R26	333-0079-	63.4K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		2
R11	333-0093-	2.37K	RES FIXED METAL FILM 1/8W 100PPM RWS5		1
R10	333-0097-	16.5K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R21	333-0098-	26.7K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R43	333-0100-	10.2K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R20	333-0113-	0.04K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R24	333-0114-	21.0K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		3
R27					
R66					
R63	333-0120-	1.47K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		1
R3	333-0127-	1.08K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		2
R64					
R6	333-0130-	24.3K	RES FIXED METAL FILM 1/8W 1% TC: D RWS5		3
R16					
R18					
J12	350-0213-	6 CONT	HEADER .156 90 DEG W/LK RAMP		1
J13	350-0216-	4 CONT	HEADER PIN 4 POS UNIVERSAL RED		4
J16					
J19 - J20					
J8	350-0216-	2 CONT	CONN PC HEADER UNIVERSAL RED		1
J2	350-0217-	3 CONT	CONN PC HEADER UNIVERSAL RED		1
J7	350-0218-	6 CONT	CONN PC HEADER UNIVERSAL RED		1
J3 - J4	350-0219-	9 CONT	CONN PC HEADER UNIVERSAL RED		2
J6 - J9	350-0220-	12 CONT	CONN PC HEADER UNIVERSAL RED		2
J1	350-0221-	18 CONT	CONN PC HEADER UNIVERSAL RED		6
F1	340-1154-	1 AMP	FUSE SUBMINIATURE AXIAL LEAD 125V NORMAL "LOW"		1
LED1 - LED6	370-0050-	LED	LED RED RIGHT ANGLE DIFFUSED RED 3MCD 13.4		6
O6	375-1024-	2R4234	TSTR PHP TO-39 1W 40V 250MA		2
O11					
O13	375-1030-	M22955	TSTR PHP TO-3 115W 60V 15A		1
O14	375-1047-	2R4283	TSTR PHP TO-3 160W 60V 20A		1
O5	375-1115-	VM105M	FET N-CH TO-237 1W 60V .5A		4
O9 - O10					
O12					
O1 - O4	375-1125-	VM66AF	FET N-CH TO-202AA 15W 60V 2A		4
L2 - L3	375-2109-	T1L-111	TSTR OPTO-COUPLER DIP		2
L1	375-0240-	LM339	IC QUAD COMPARATOR 14 PIN DIP		2
L4					

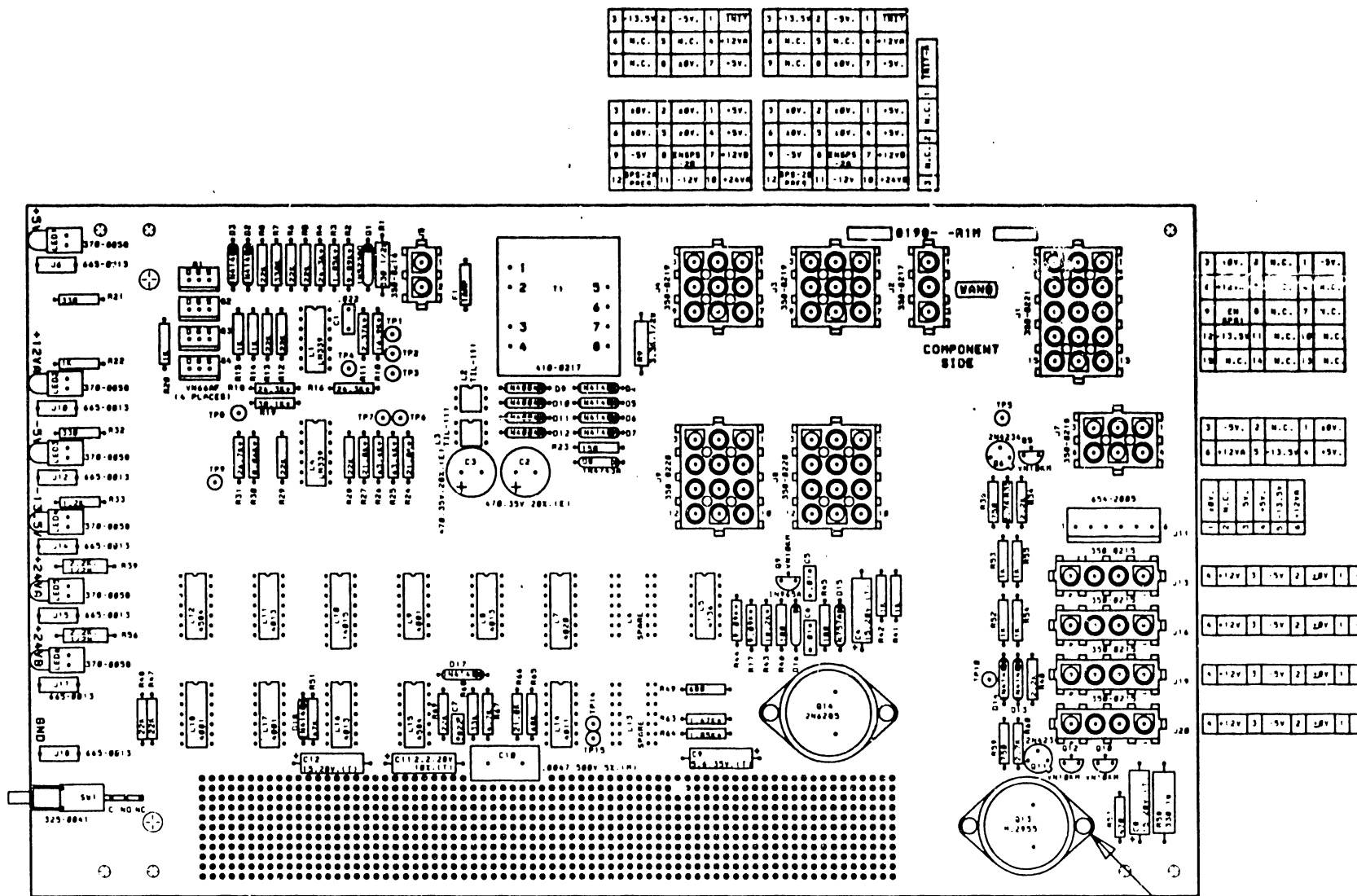
BOARD NO. & TITLE: C0198 POWER SEQUENCER BOARD SCHEMATIC REVISION (S): 01 SHEET OF PAGE 3

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L9	376-0367-	4001	CMOS IC QUAD 2-INPUT NOR GATE		3
L17 - L18					
L7	376-0369-	4020	CMOS IC 14-STAGE RIPPLE-CARRY BINARY COUNTER/DIVI		1
L14	376-3378-	4011	CMOS IC QUAD 2-INPUT NAND GATE		1
L8	376-0428-	4136	IC QUAD HIGH-PERFORMANCE OP AMP		1
L6	376-0431-	4013	CMOS IC DUAL D-TYPE FLIP-FLOP		3
L11					
L16					
L12	376-0500-	4884	CMOS IC HEX SCHMITT TRIGGER		2
L15					
L10	376-0537-	14015	CMOS IC DUAL 4-BIT STATIC SHIFT REGISTER		1
O2 - O7	380-1014-	1N4148	DIO SIG 75V 500MA 0015		10
O13 - O14					
O17 - O18					
O18	380-2001-	1N757A	DIO ZENER 9.1V 400MA 5% 007		1
O8	380-2113-	1N4743A	DIO ZENER 13V 1W 5% 0041		1
O16	380-2116-	1N965A	DIO ZENER 15V 400MA 10% 007		1
O1	380-2142-	1N5230D	DIO ZENER 4.7V 500MA 1% 00-7		1
O9 - O12	380-4000-	1N4004	DIO RECT 400V 1A 0041		1
T1	410-0217-	LINEAR	RFMR POWER 115/230V 50/60HZ IEC-300		1
O1	810-0190-	PCB	PCB		1
O2 - O8	650-3172-	SCREW	SCREW PH NO 6-32 X 1/2		6
O14 - O17	652-3000-	NUT	NUT, HEX 6-32		6
O6 - O9	652-3000-	WASHER	WASHER FLAT #6		6
O10 - O13	652-3000-	WASHER	WASHER LOCK #6		6
TP1 - TP10	654-1192-	TERMINAL	TERMINAL SINGLE NECK POINT COMP		10
TP14 - TP18					
J6	665-0013-	2 PIN	JACK, 2 PIN		7
J10					
J12					
J14 - J16					
J17 - J18					

\*\*\* END-OF-REPORT \*\*\*

<b>WANG</b> WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		OWN		E ENGR	
MODEL NO.		CHK		M ENGR	
SEE ENGINE SPECIFICATIONS				MFG ENGR	
TITLE		POWER SEQUENCER BD.			
PART NO.		210-8198	C	8198	1
SCALE		1/8" = 1"	3 OF 3	WANG PART NUMBER	8198

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



1	13.5V	2	-5V	1	TP14	5	-13.5V	2	-5V	1	TP15
4	N.C.	3	N.C.	1	-12V	8	N.C.	3	N.C.	1	-12V
9	N.C.	8	ADV.	7	-5V	9	N.C.	8	ADV.	7	-5V

1	5V	2	N.C.	1	-5V
4	N.C.	3	N.C.	2	N.C.
6	N.C.	5	N.C.	4	N.C.
12	N.C.	11	N.C.	10	N.C.
15	N.C.	14	N.C.	13	N.C.

3	-5V	2	N.C.	1	ADV.
4	-12V	5	-13.5V	6	-5V

4	-12V	3	-5V	2	ADV.	1	-5V
4	-12V	3	-5V	2	ADV.	1	-5V
4	-12V	3	-5V	2	ADV.	1	-5V
4	-12V	3	-5V	2	ADV.	1	-5V

652-2005 LOCK-NUT 4-40  
653-2009 NYL FLAT WASH.#4

- NOTES:  
UNLESS OTHERWISE SPECIFIED  
1. ALL CAPACITORS ARE EXPRESSED IN MICROFARADS.  
2. ALL RESISTORS ARE 1/4W. 5% EXPRESSED IN OHMS.  
3. ALL RESISTORS WHICH HAVE A "\*" IN THE VALUE ARE 1/8W. 1%.  
4. ALL TEST POINTS (TP1-TP10, TP14, TP15) ARE WPN 654-1192.

SCREW, PN HD. 6-32 X 1/2". WPN 650-3172  
WASH. FLAT. #6. WPN 653-3000  
WASH. LOCK. #6. WPN 653-3000  
NUT, HEX. 6-32. WPN 652-3000  
(4 PLACES)

451-3704  
PANEL, P.C. BOARD

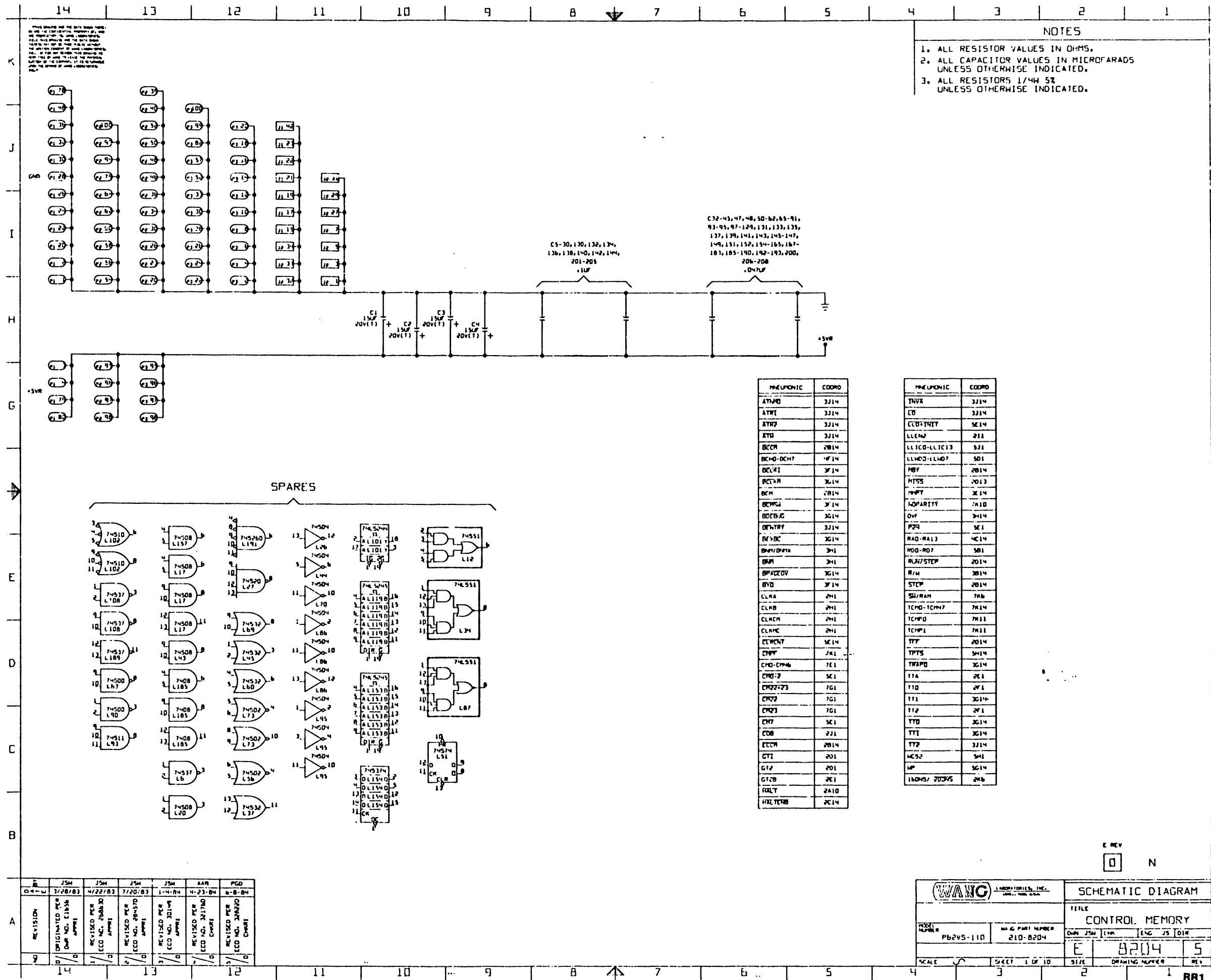
650-2120  
4-40X3/8  
PAN HD PH SEMS

P.C.A. 210-8198

NO.	REVISION	CHK	DATE	BY
1	DWR#2244	JRG	11-84	BHM
2	DCR#880179 DCR#88446	JDL	11-84	ALL
3	ECO#333470			ALL
4	ECO#34003			ALL
5	ECO#34848			ALL

<b>WANG</b> LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	DWN	MRM	E ENGR	
	VS-85H	CHK		M ENGR	
	SEE ENGR SPECIFICATIONS NO. 10-203	E C CONTROL		MFG ENGR	
FINISH	13. ALL AS NOTED 14. 200 TRACED 15. 200 UNTRACED	TITLE		POWER SEQUENCER BD.	
		ASSEMBLY DRAWING			
		210-8198-R1	C	8198	3
		WANG PART NUMBER	REV	ISSUE NO	REV

QQ4

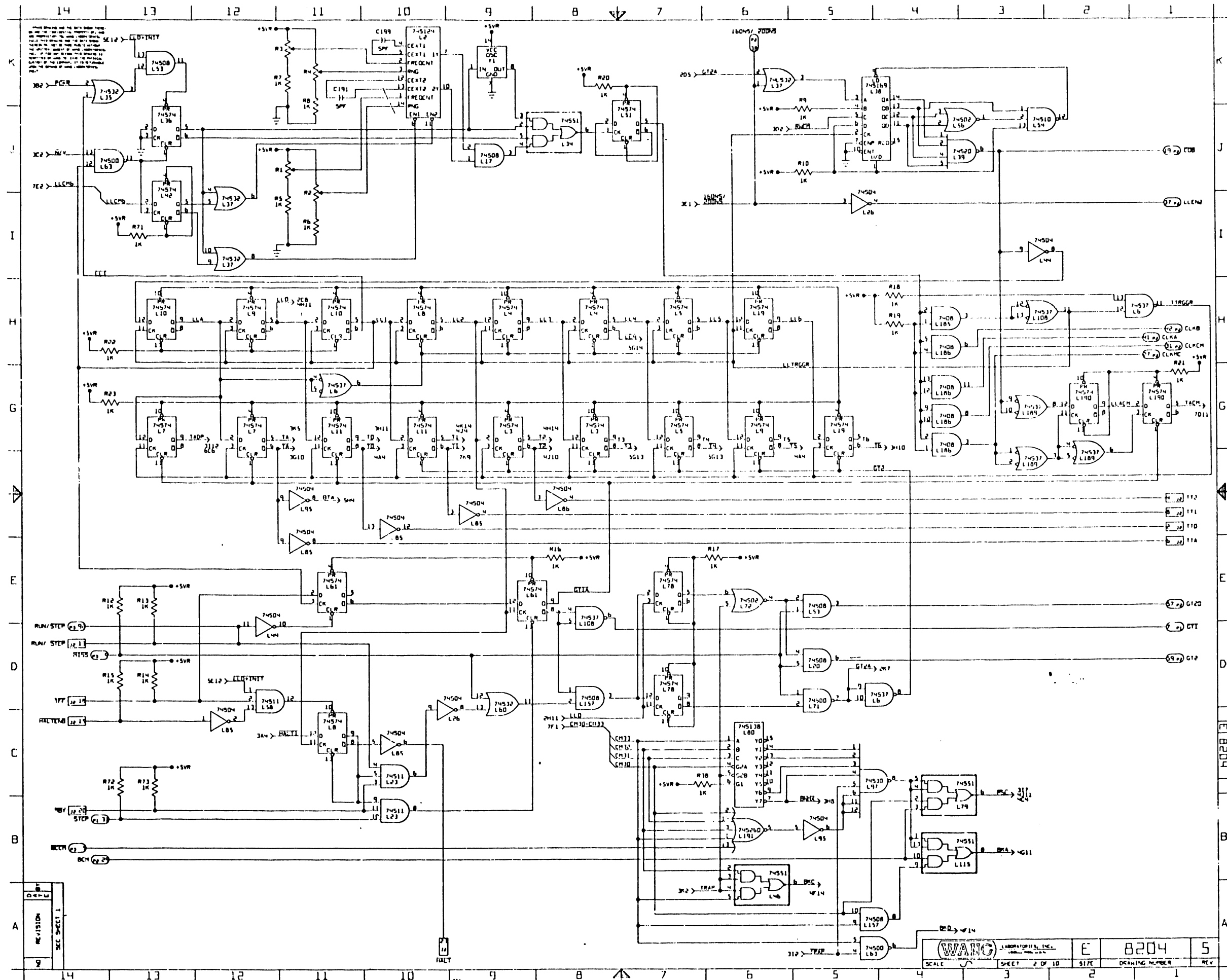


REV	BY	DATE	DESCRIPTION
1	JSM	3/20/83	ORIGINAL PER Dwg NO. E1838
2	JSM	4/22/83	REVISED PER LCD NO. 28630
3	JSM	7/20/83	REVISED PER LCD NO. 28450
4	JSM	1-4-84	REVISED PER LCD NO. 30148
5	AAE	4-23-84	REVISED PER LCD NO. 32180
6	PGD	8-8-84	REVISED PER LCD NO. 32820

		<b>SCHEMATIC DIAGRAM</b>	
MODEL NUMBER <b>P62V5-110</b>		WANG PART NUMBER <b>210-8204</b>	
DATE <b>Dwg JSM [1/8] [ENG JS D/R]</b>		TITLE <b>CONTROL MEMORY</b>	
SCALE <b>1</b>	SHEET <b>1 OF 10</b>	SIZE <b>8 1/2 X 11</b>	DRAWING NUMBER <b>8204</b>
		REV. <b>5</b>	

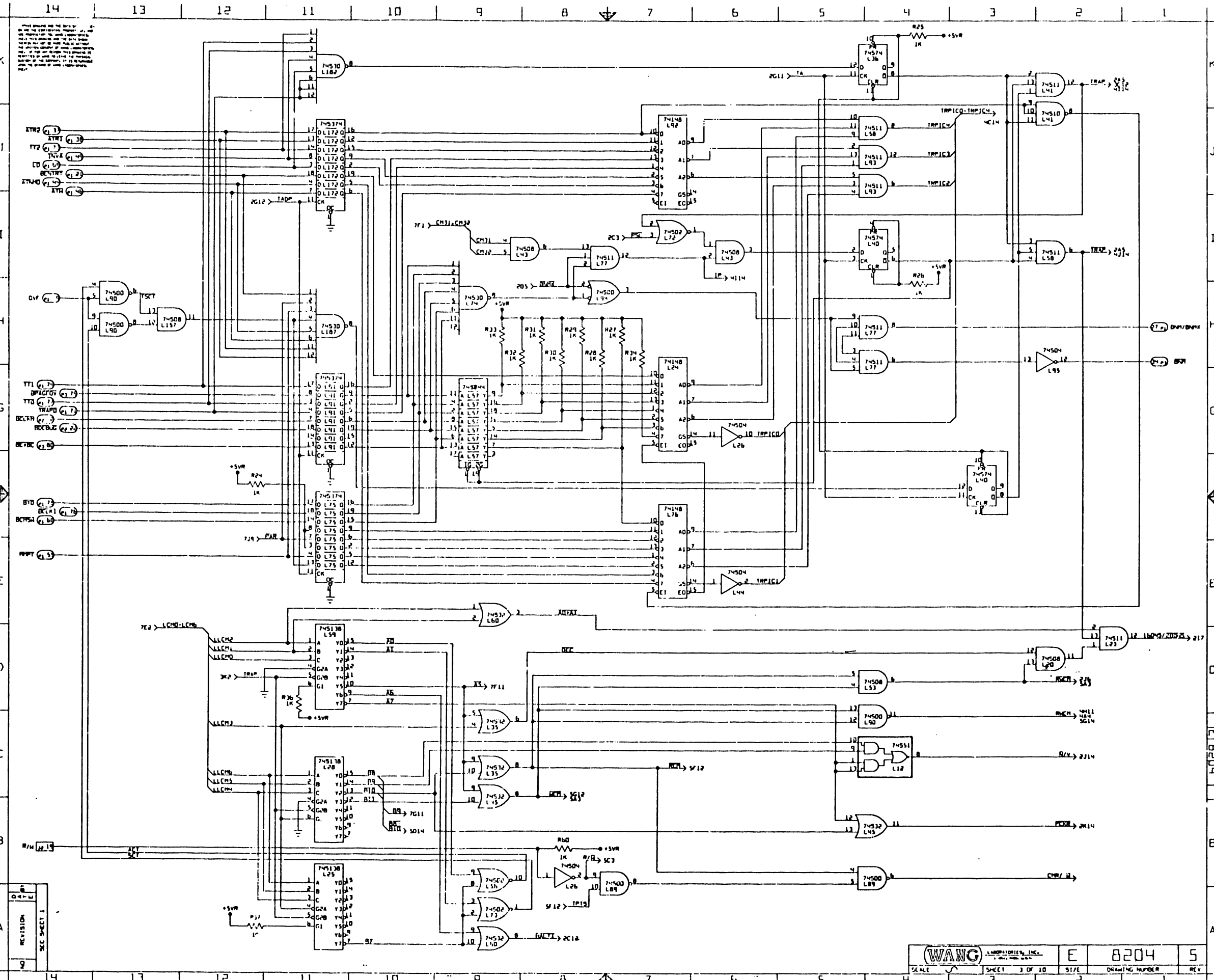
RR1





REVISION	SEC SHEET 1

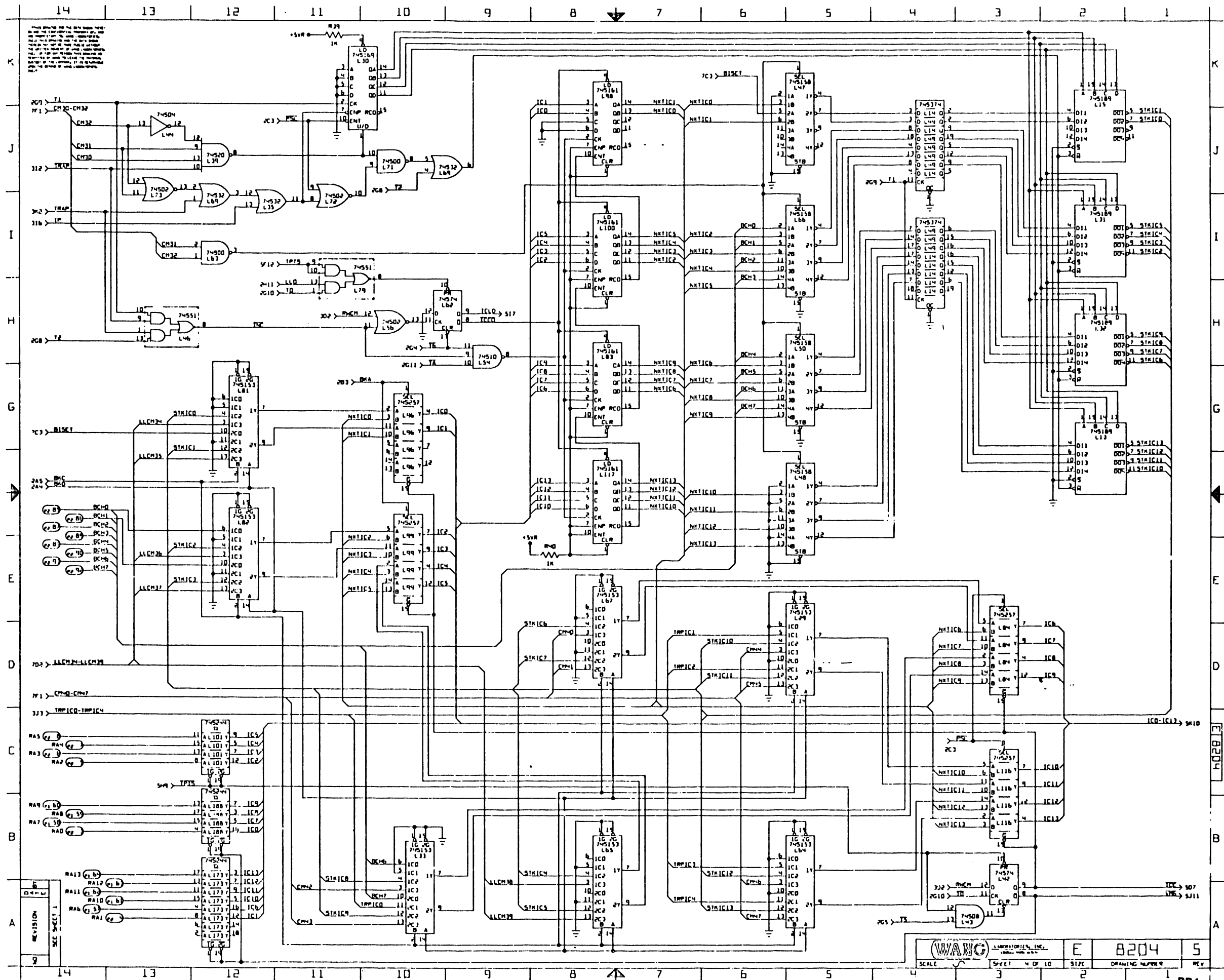
WANG LABORATORIES, INC. SHEET 2 OF 10 SIZE E 8204 5 SCALE DRAWING NUMBER REV



NOTE: THIS CIRCUIT IS THE PROPERTY OF WANG LABORATORIES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

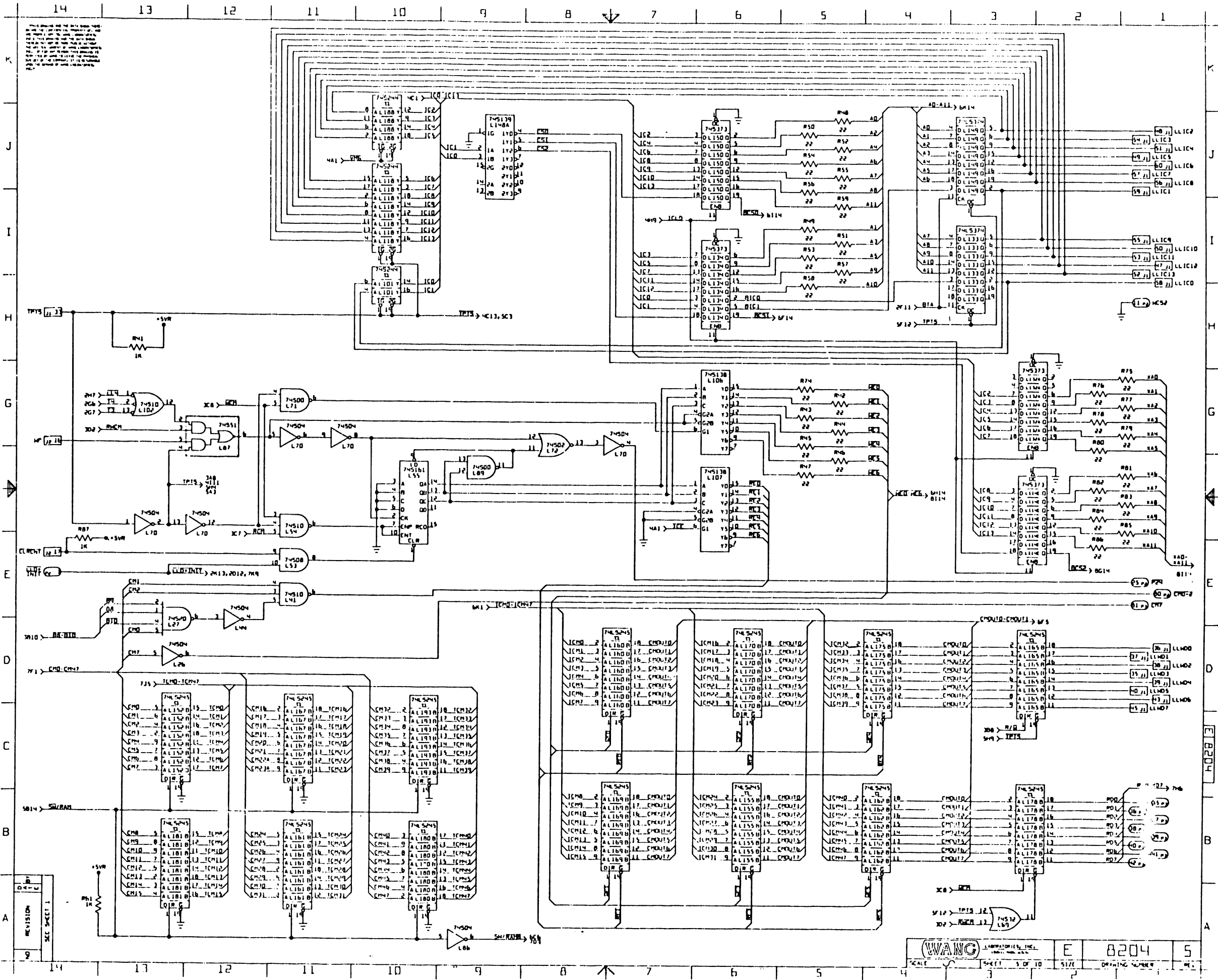
REV	DESCRIPTION	DATE
1	ISSUED	11-1-67

RR3



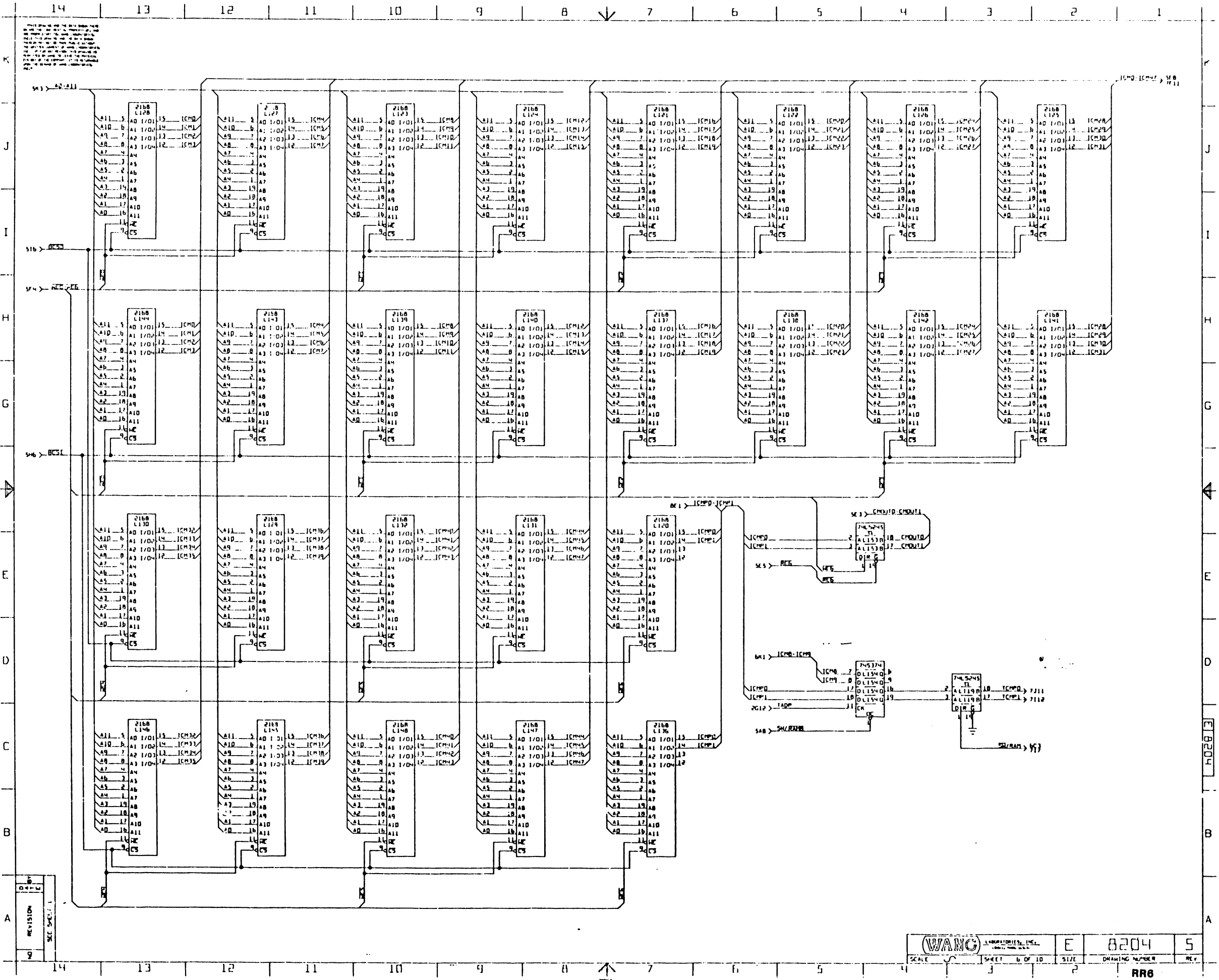
THIS DRAWING IS THE PROPERTY OF WANG  
 LABORATORIES, INC. IT IS TO BE KEPT  
 CONFIDENTIAL AND NOT TO BE REPRODUCED  
 OR TRANSMITTED IN ANY FORM OR BY ANY  
 MEANS, ELECTRONIC OR MECHANICAL,  
 INCLUDING PHOTOCOPYING, RECORDING,  
 OR BY ANY INFORMATION STORAGE AND  
 RETRIEVAL SYSTEM, WITHOUT THE WRITTEN  
 PERMISSION OF WANG LABORATORIES, INC.

REV	DATE	DESCRIPTION
1		ISSUED FOR FABRICATION



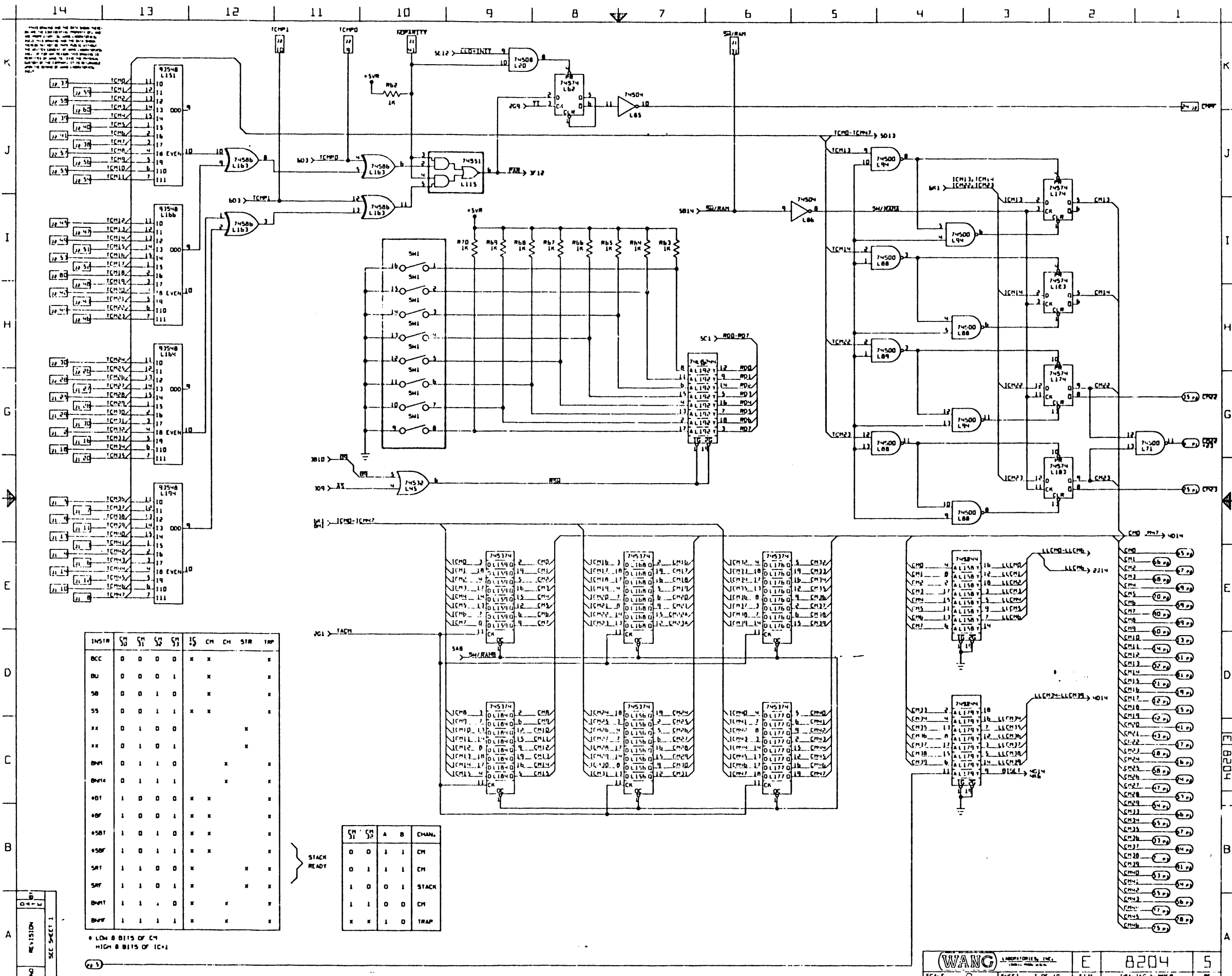
1. This drawing is for the 8204 only.  
 2. All dimensions are in millimeters.  
 3. All components are to be standard.  
 4. All components are to be standard.  
 5. All components are to be standard.  
 6. All components are to be standard.  
 7. All components are to be standard.  
 8. All components are to be standard.  
 9. All components are to be standard.  
 10. All components are to be standard.  
 11. All components are to be standard.  
 12. All components are to be standard.  
 13. All components are to be standard.  
 14. All components are to be standard.

REV	DATE	BY	CHK
1			
2			



THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC.

REV	REVISION	DATE	BY
1	SEE SHEET 1		



NOTE: ALL LOGIC AND IC'S SHOWN HERE  
 ARE THE SAME AS SHOWN IN THE WANG 8204  
 MANUAL. THE ONLY DIFFERENCE IS THAT  
 THE LOGIC IS SHOWN IN A MORE  
 DETAILED MANNER TO SHOW THE  
 INTERNAL CONNECTIONS OF THE  
 LOGIC AND IC'S.

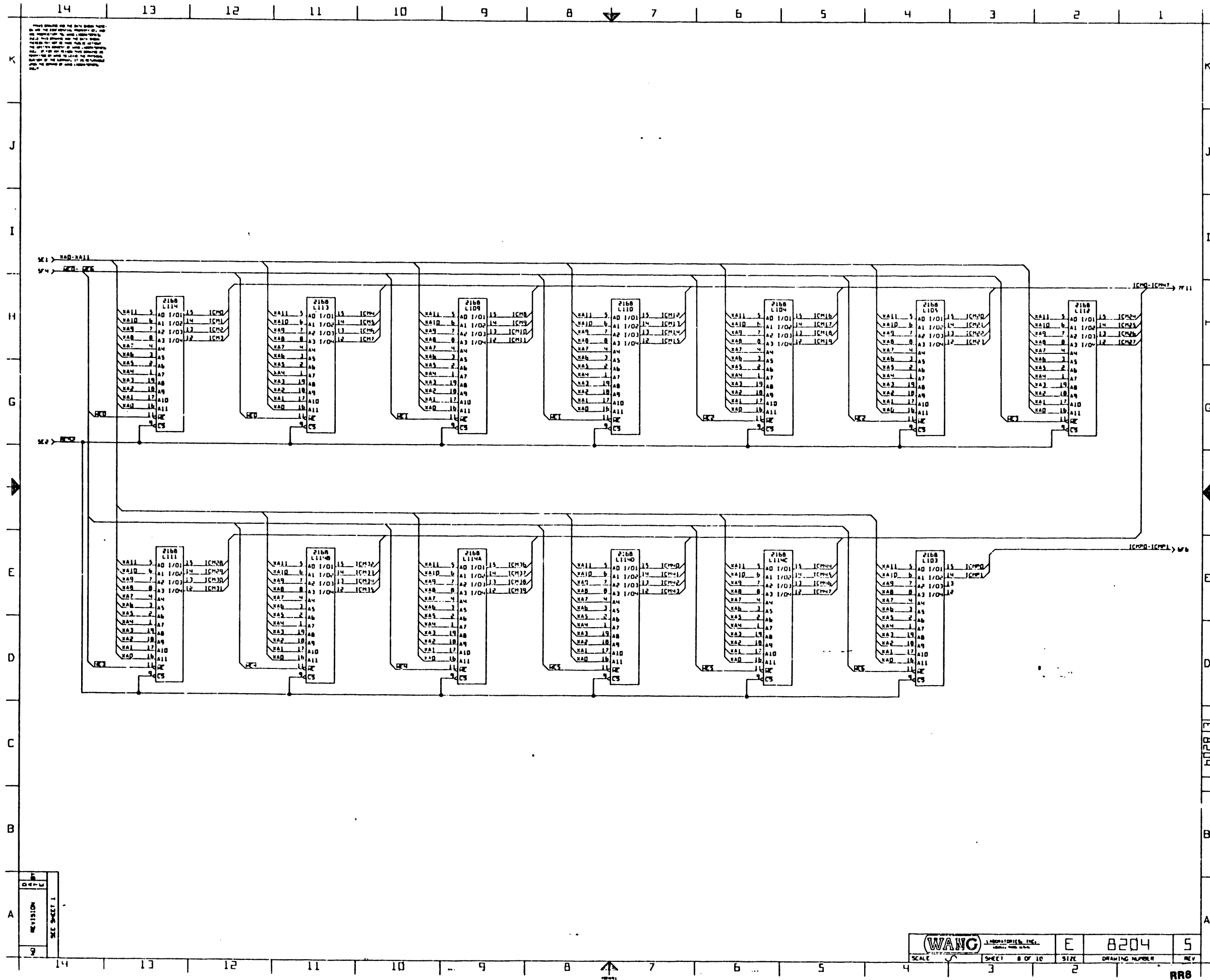
INSTR	S0	S1	S2	S3	S4	CH	CH	STR	TRP
BCC	0	0	0	0	X	X			X
DU	0	0	0	1		X			X
SB	0	0	1	0		X			X
SS	0	0	1	1	X	X			X
XX	0	1	0	0				X	
XX	0	1	0	1				X	
DH4	0	1	1	0		X			X
DH44	0	1	1	1		X			X
VD1	1	0	0	0	X	X			X
VD	1	0	0	1	X	X			X
VD1	1	0	1	0	X	X			X
VD1	1	0	1	1	X	X			X
SD1	1	1	0	0	X			X	
SD1	1	1	0	1	X			X	
DH1	1	1	1	0	X			X	
DH1	1	1	1	1	X			X	

S1	S2	A	B	CHAN.
0	0	1	1	CH
0	1	1	1	CH
1	0	0	1	STACK
1	1	0	0	CH
X	X	1	0	TRAP

STACK READY

LOW 8 BITS OF CH  
 HIGH 8 BITS OF IC-1

REVISION  
 SHEET 1



NO	REVISION	DATE	BY
	SEE SHEET 1		

"L1"  
"L1"  
"5.8"

REF. DES.	MANUFACT. PART NO.	VALUE/TYP.	DESCRIPTION	DRAWING NO.	QTY.
C191	300-1005-	SPF	CAP CERAMIC MONO RADIAL 50V +/-0.5PF MPO		2
C199					
C5 - C30	300-1930-	.1U	CAP CERAMIC MONO RAD +80% -20% 50V 25U		30
C132					
C134					
C136					
C138					
C140					
C142					
C144					
C201 - C208					
C32 - C40	300-1046-	.047U	CAP CERAMIC MONO AXIAL +80 -20% 50V 25U		101
C47 - C48					
C80 - C82					
C85 - C91					
C93 - C96					
C97 - C129					
C131					
C133					
C138					
C137					
C139					
C141					
C143					
C145 - C147					
C149					
C161 - C182					
C184 - C185					
C187 - C193					
C195 - C196					
C192 - C198					
C200					
C206 - C208					
C1 - C4	300-4022-	15U	CAP TANT AXIAL 10% 20V		4
S01	328-1803-	SM100	SLIDE SPST 8 POS		1
R42 - R49	310-1022-	22.000	RES FIXED METAL FILM 1/4W 5% 200PPM		31
R74 - R84					

M

"L1"  
"L1"  
"5.8"

REF. DES.	MANUFACT. PART NO.	VALUE/TYP.	DESCRIPTION	DRAWING NO.	QTY.
R6 - R8	330-3040-	470.000	RES FIXED METAL FILM 1/4W 5% 200PPM		4
R9 - R10	330-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		46
R12 - R36					
R36 - R41					
R40 - R72					
R87					
R1 - R4	330-1010-	1K	RES TRIMMER .375" SQUARE SIDE ADJ 10% 1 TURN		4
J1 - J2	310-0441-	60 CONT	CONN PC HEADLR DUAL BOM .100 R/A W/LOCK/EJECT		2
L105 - L106	376-0001-	7400	IC QUAD 2-INPUT AND GATE		2
L04	376-0101-	74S257	IC QUAD DATA SELECT DR/MULTIPLEXERS		4
L96					
L98					
L116					
L20	376-0171-	74148	IC 8-LINE-TO-3-LINE OCTAL PRIORITY ENCODER		3
L76					
L92					
L12	376-0104-	74581	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		6
L30					
L46					
L79					
L07					
L15					
L26	376-0197-	74504	IC HEX INVERTER		6
L44					
L70					
L85 - L96					
L96					
L74	376-0190-	74530	IC 8-INPUT NAND GATE		4
L07					
L102					
L107					
L86	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		3
L72 - L73					
L17	376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		8
L20					
L43					
L83					
L107					
L3 - L6	376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGND F/F W/PRESET/C		19
L7 - L11					
L19					
L38					
L40					
L42					
L81					
L61 - L62					
L78					
L174					
L183					
L190					

REF. DES.	MANUFACT. PART NO.	VALUE/TYP.	DESCRIPTION	DRAWING NO.	QTY.
L25					
L28					
L59					
L80					
L106 - L107					
L47 - L48	376-0301-	74518	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
L50					
L56					
L14	376-0308-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		12
L49					
L75					
L91					
L104					
L134					
L156					
L159					
L160					
L172					
L176 - L177					
L184					
L1146	376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		4
L132A					
L130					
L30	376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		2
L38					
L140A	376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1
L57	376-0330-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		8
L150					
L173					
L179					
L180					
L151	376-0340-	93548	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		4
L164					
L166					
L194					
L12	376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		4
L15					
L31 - L32					
Y1	376-9001-	SKT 14	IC SOCKET P-4 DIL PC MOUNT		1
L103 - L105	376-9020-	SKT 20	IC SOCKET ; 6 PIN DIL PC MOUNT		39
L109 - L114					
L134A					
L1140					
L114C					
L1140					
L120 - L132					
L136 - L140					
01	810-8204-				

"8.5"  
"11"  
"17"

"8.5"  
"11"  
"17"  
RRD

BY DATE APPROVED BY DATE	
DWH	E ENGR
CMR	M ENGR
	MFG ENGR
MATERIAL	MODEL NO.
SEE ENG'G SPECIFICATIONS	
TITLE CONTROL MEMORY	
FINISH	YOL ER AS NOTED
	RD 8 018 FRAC 8/160
	WEB 2 019 AND 2 1/20 THRU 1/9
SCALE	1/8" = 1" UNLESS OTHERWISE NOTED



17"

11"

5.8"

17"

11"

5.8"

BOARD NO. & TITLE: C8204 CONTROL MEMORY SCHEMATIC REVISION (S): 05 SHEET OF PAGE 8  
 \* WANG PART NO. \* VALUE/TYPE \* DESCRIPTION \* DRAWING NO. \* QTY. \*

(CAUTION - THE FOLLOWING PARTS/COMPONENTS CONTAINED IN THIS B.O.M. ARE NOT RECOMMENDED FOR NEW DESIGNS)

WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
376-0131-	745257	IC QUAD DATA SELECT OR/MULTIPLEXERS		4
376-0197-	74524	IC HEX INVERTER		6
376-6198-	74530	IC 8-INPUT NAND GATE		6
376-0199-	74507	IC QUAD 2-INPUT POSITIVE-NOR GATES		3
376-0300-	74508	IC QUAD 2-INPUT POSITIVE AND GATES		3
376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		19
376-0705-	74532	IC QUAD 2-INPUT OR GATE		6
376-0228-	74520	IC QUAD 2-INPUT NAND GATE		6
376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		2
376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		6
376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		3
376-0271-	74584	IC QUAD 2 IN EXCLUSIVE OR GATE		1
376-0298-	74518	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		6
376-0301-	74518	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		6
376-0305-	745174	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		12
376-0306-	745173	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		6
376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		2
376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1
376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		5
376-0348-	93548	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		4
376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		4

\*\*\* END-OF-REPORT \*\*\*

WANG LABORATORIES, INC.

\*\*\*\*\* ELECTRICAL PARTS LIST \*\*\*\*\* SHEET OF PAGE 1


(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8204 CONTROL MEMORY  
 ASSEMBLY LEVEL & TITLE: 210 8204-A  
 ARTWORK REVISION (R): 00  
 ASSEMBLY REVISION (A): 00  
 SCHEMATIC REVISION (S): 05  
 DWR OR MOST RECENT ECO: 328220

CREATED: 06/05/84 10:09  
 LAST MODIFIED: 08/15/84 13:36 BY: LAB  
 EDITING REVISION: 4

REF. DES.	WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
01	209-8204-		PCA		1
Y1	321-1019-	50 0000	CLOCK OSCILLATOR 50.0 MHZ +/-0.1% TTL		1
L103 - L105	377-0476-	8168	IC 4K14 NMOS SRAM 55NS		39
L109 - L110					
L114A					
L114B					
L114C					
L114D					
L120 - L122					
L126 - L148					

\*\*\* END-OF-REPORT \*\*\*

 <b>WANG LABORATORIES, INC.</b> LOWELL, MA U.S.A.	BY	DATE	APPROVED BY	DATE
	DWN		E ENGR	
MATERIAL MODEL NO. SEE ENGR SPECIFICATIONS No.	CHK		M ENGR	
			WFG ENGR	
FINISH TOL. SEE AS NOTED HOLE ± 0.10 FRAC ± 1/64 HOLE ± 0.05 ANG ± 1° 30' FINISH ✓ SCALE 1/10 OF 10	TITLE CONTROL MEMORY			
	210-8204	C	8204	5
	WANG PART NUMBER	1/21	DRAWING NUMBER	REV

8.5"

11"

17"

8.5"

11"

17"

22"

17"

11"

8.5"

8.5"

11"

17"

22"

22"

17"

11"

8.5"

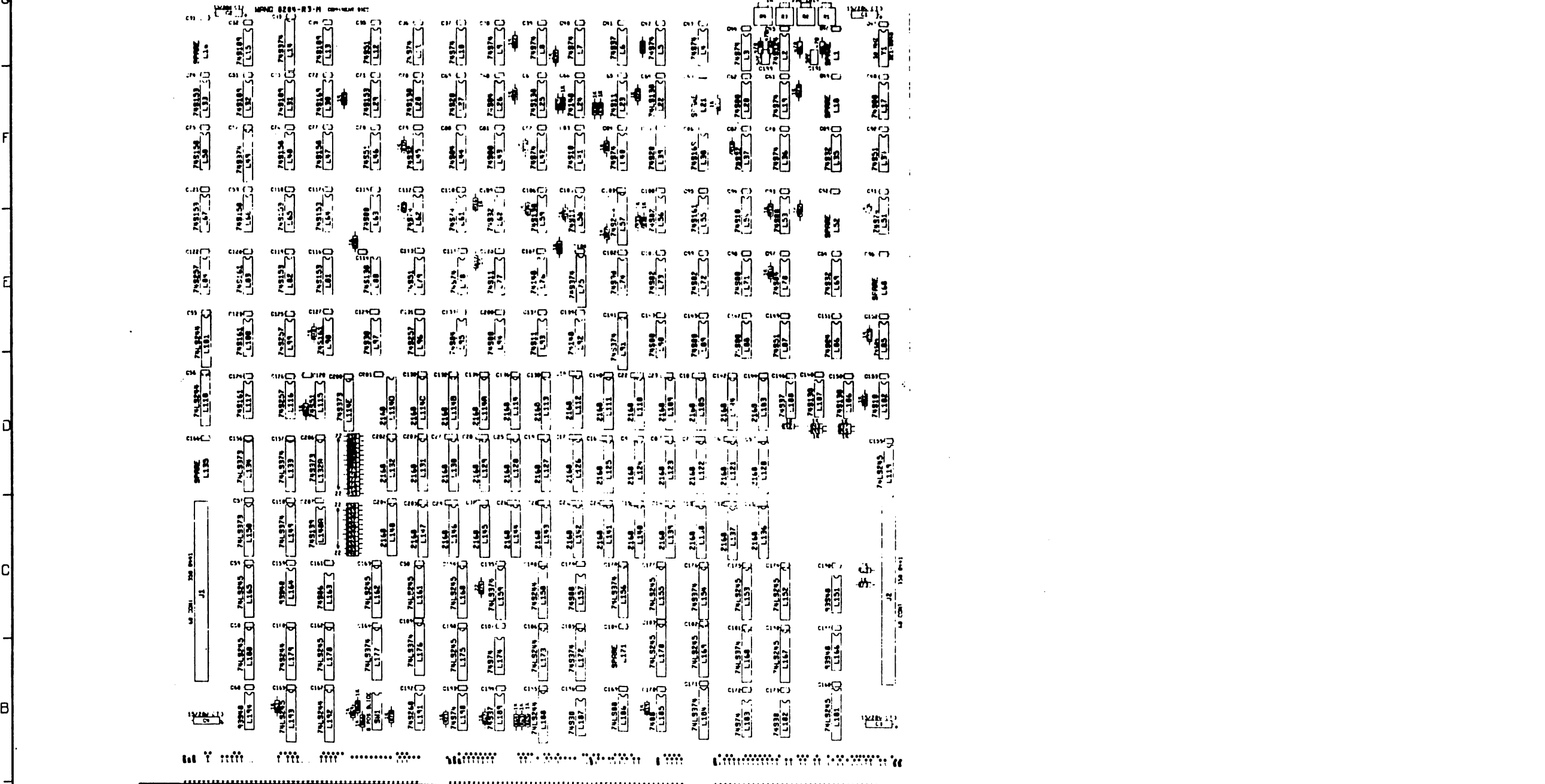
8.5"

11"

17"

22"

THIS DRAWING IS THE PROPERTY OF WANG LABORATORIES, INC. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. THE USER OF THIS DRAWING IS TO BE RESPONSIBLE FOR THE PROTECTION OF THIS DRAWING FROM UNAUTHORIZED DISSEMINATION TO OTHERS.

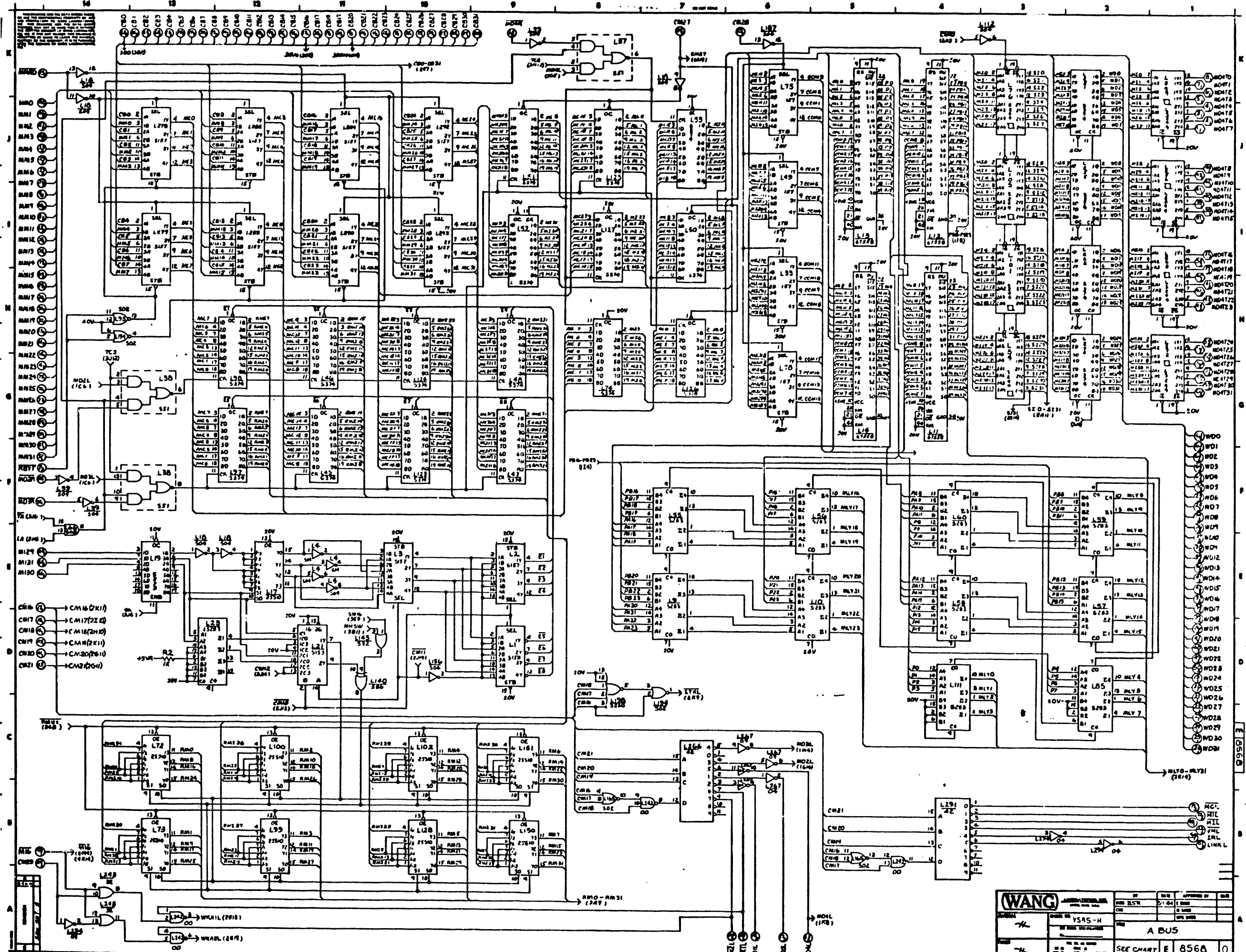


REV	DATE	BY	CHKD	APP'D
1	11/23/83	RL/11/03/77	RL/11/03	JAR
2	12/24/83			

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL CAPS ARE 847 CER CAPS WPM 300-1466 EXPRESSED IN MICROFARADS  
C5-C10, C130, C132, C134, C136, C138, C140, C142, C144, C201-C205 ARE 1UF 50V CH T WPM 300-1430
  2. ALL RESISTORS ARE 1/4W 5 PERCENT EXPRESSED IN OHMS
  3. L103-L105, L108-L110, L114-L116, L118-L120, L122-L124  
L126-L128 100 OHM 14 PIN SOCKETS WPM 376-1020
  4. T1 100 OHM 14 PIN SOCKET WPM 376-1001

		DATE	11/23/83
		BY	JAR
MODEL NO.	PH067 VS-110	TITLE	ASSEMBLY DRAWING CONTROL MEMORY
REV. NO.	1-0	QTY	8204 3
DATE	11/23/83	BY	JAR

RR11

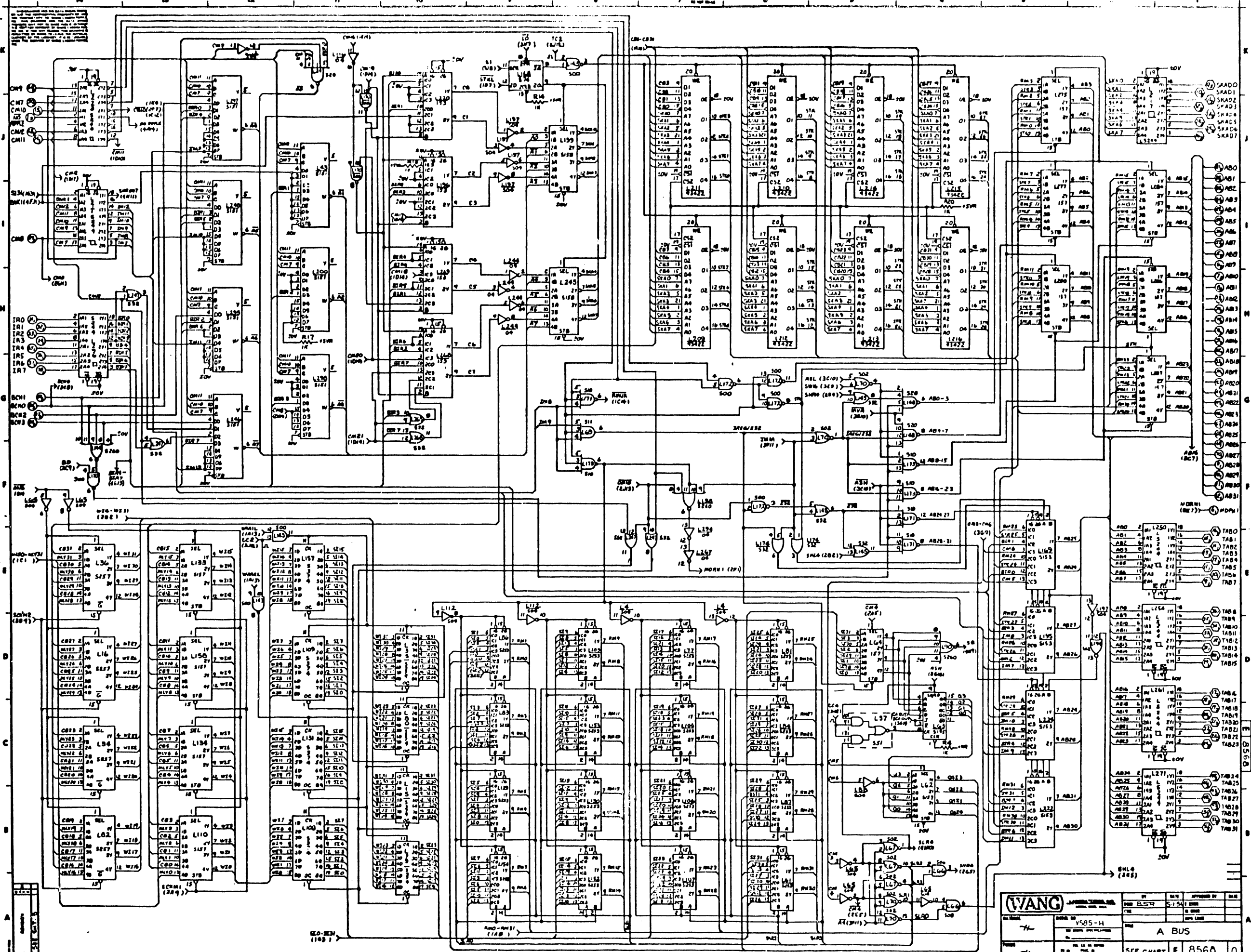


<b>WANG</b>		REV	DATE	APP'D BY	CHK'D BY
1		1	2-64	[signature]	[signature]
A BUS					
SEE CHART E 8568					

34"  
 22"  
 17"  
 11"  
 8.5"  
 11"  
 8.5"  
 11"  
 17"  
 22"  
 34"

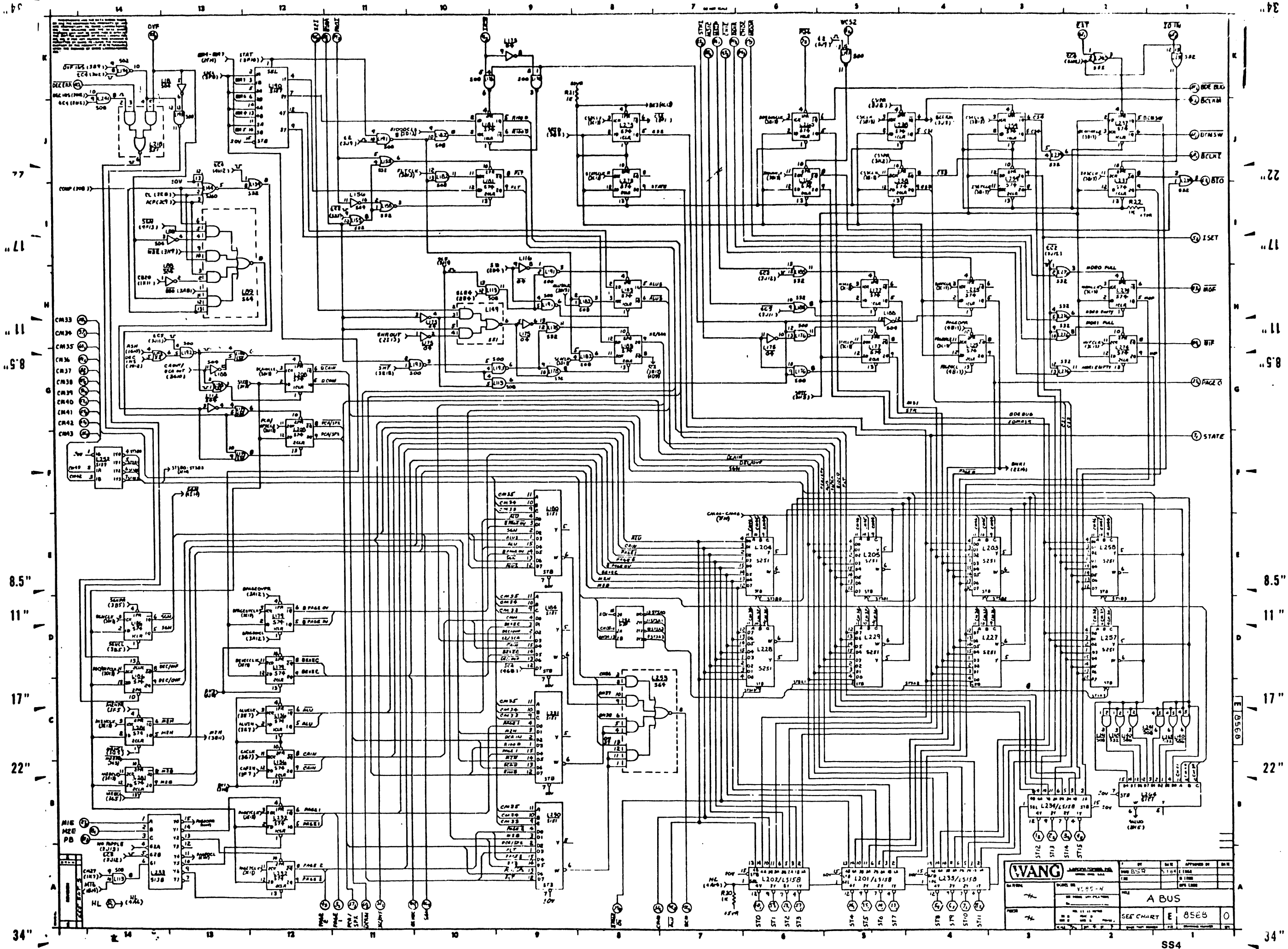
34"  
 22"  
 17"  
 11"  
 8.5"  
 11"  
 8.5"  
 11"  
 17"  
 22"  
 34"

34" 77" 17" 11" 8.5" 8.5" 11" 17" 22" 34"



<b>(WANG)</b>		BY	DATE
NO. 1	V585-H	SEE CHART	E 8560
NO. 2		DATE	0
NO. 3		DATE	
NO. 4		DATE	
NO. 5		DATE	
NO. 6		DATE	
NO. 7		DATE	
NO. 8		DATE	
NO. 9		DATE	
NO. 10		DATE	
NO. 11		DATE	
NO. 12		DATE	
NO. 13		DATE	
NO. 14		DATE	
NO. 15		DATE	
NO. 16		DATE	
NO. 17		DATE	
NO. 18		DATE	
NO. 19		DATE	
NO. 20		DATE	
NO. 21		DATE	
NO. 22		DATE	
NO. 23		DATE	
NO. 24		DATE	
NO. 25		DATE	
NO. 26		DATE	
NO. 27		DATE	
NO. 28		DATE	
NO. 29		DATE	
NO. 30		DATE	
NO. 31		DATE	





<b>WANG</b>		DATE	BY	CHKD	APPROVED BY	DRN
PROJECT		NO. B54	STG	REV		
TITLE		<b>A BUS</b>				
PART		SEE CHART E 8568				
REV		0				



(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8568 "A BUS" BOARD (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 1  
 ASSEMBLY: 209  
 CREATED: 05/02/84 14:21  
 LAST MODIFIED: 05/08/84 08:38 BY: LAB  
 EDITING REVISION: 1

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C1 - C20	300-1966-	.047U	CAP CERAMIC MONO AXIAL +40 -20% 80V Z5U		160
C22 - C40					
C40 - C91					
C94 - C107					
C109 - C142					
C144 - C146					
C148 - C156					
C158 - C168					
C17	300-4022-	10U	CAP TANT AXIAL 10% 20V		9
C92 - C93					
C100					
C143					
C147					
C157					
C169					
R10 - R11	330-2034-	330.000	RES FIXED METAL FILM 1/4W 5% 200PPM		3
R21					
R2	330-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		14
R4 - R6					
R8 - R9					
R12 - R16					
R19 - R20					
R22					
J1 - J2	350-0057-	60 CONY	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		2
L242	376-0002-	7400	IC QUAD 2-INPUT NAND GATE		1
L204	376-0008-	7442	IC 1-OF-10 DECODER		2
L291					
L116	376-0010-	7404	IC HEX INVERTER		8
L175					
L244					
L267					
L294					
L219	376-0012-	7451	IC DUAL 2-WIDE 2-INPUT AND-OR-INVERT GATE		1
L120 - L121	376-0016-	7402	IC QUAD 2-INPUT NOR GATE		2
L196	376-0048-	74153	IC DUAL 4-INPUT MULTIPLEXER		4
L220					

BOARD NO. & TITLE: C8568 "A BUS" BOARD (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 3


REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L177					
L179					
L181					
L183					
L186					
L200					
L225					
L232					
L237 - L238					
L259 - L260					
L273 - L274					
L281					
L8	376-0204-	74LS257A	IC QUAD 2-LINE TO 1-LINE DATA SEL/MUX		4
L70					
L30 - L31					
L91 - L92	376-0205-	74532	IC QUAD 2-INPUT OR GATE		16
L130					
L140					
L147					
L155					
L174					
L178					
L180					
L189					
L230 - L240					
L247					
L265					
L276					
L288					
L90	376-0206-	74S260	IC DUAL 3-INPUT EXPANDER		4
L117					
L144					
L190	376-0215-	74S163	IC DUAL 4-INPUT MULTIPLEXER		4
L21					
L169					
L198					
L222					
L2 - L3	376-0217-	74S167	IC QUAD 2 TO 1 LINE DATA SEL/MUX		16
L62					
L110					
L133 - L134					
L158					
L190					
L270 - L279					
L282 - L283					
L289 - L290					
L292 - L293					
L143	376-0220-	74S40	IC QUAD 2-INPUT NAND GATE		7
L170					
L172					

BOARD NO. & TITLE: C8568 "A BUS" BOARD (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L760 - L269					
L137	376-0001-	7408	IC QUAD 2-INPUT AND GATE		1
L33	376-0002-	74157	IC QUAD 2-INPUT MULTIPLEXER		11
L40					
L75					
L78					
L275					
L277					
L280					
L284					
L286 - L287					
L119	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		2
L243					
L16	376-0131-	74S257	IC QUAD DATA SELECT OR/MULTIPLEXERS		4
L34					
L36					
L82					
L37 - L38	376-0184-	74S81	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		5
L130					
L149					
L210					
L6					
L10	376-0197-	74S04	IC HEX INVERTER		10
L39					
L65					
L80					
L112					
L154					
L187 - L189					
L197					
L67	376-0199-	74S02	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L70					
L95					
L96					
L165					
L190					
L66	376-0200-	74S00	IC QUAD 2 INPUT POSITIVE AND GATES		6
L113					
L182					
L241					
L49					
L115	376-0201-	74S64	IC 4-2-3-2 INPUT AND/OR/INVERT GATE		6
L167					
L233					
L136					
L141					
L159 - L164					
L164					
L168					
L164					
L160					

BOARD NO. & TITLE: C8568 "A BUS" BOARD (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 4

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L176					
L191 - L193					
L24	376-0230-	74S20	IC DUAL 4-INPUT POSITIVE NAND GATE		3
L110					
L148					
L69	376-0237-	74S11	IC TRIPLE 3-INPUT AND GATE		1
L135	376-0238-	74S10	IC TRIPLE 3-INPUT NAND GATE		3
L171					
L173					
L140	376-0271-	74S86	IC QUAD 2 IN EXCLUSIVE OR GATE		1
L40	376-0281-	93S10	IC SYNCHRONOUS BCD DECADE COUNTER M/S		1
L29	376-0286-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE		2
L32					
L217	376-0286-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		9
L240 - L250					
L254					
L256					
L261					
L263					
L271 - L272					
L281 - L282					
L234 - L235					
L132	376-0293-	74LS160	IC QUAD 2-INPUT MULTIPLEXER		4
L95	376-0296-	74S32	IC QUAD 2-INPUT NAND BUFFER		1
L122	376-0298-	74S130	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		8
L146					
L206 - L207					
L226					
L233					
L256					
L1	376-0301-	74S154	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		3
L199					
L245					
L7					
L16	376-0305-	74S374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		30
L27					
L35					
L45 - L46					
L50 - L53					
L74					
L79 - L80					
L97 - L98					
L108 - L109					
L123 - L127					
L131					
L187					
L261					
L265					
L262					
L270					

 WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL MODEL NO. SEE ENGRG SPECIFICATIONS No. _____		CHK		AA ENGR	
		MFG ENGR			
FINISH TOL EX AS NOTED XX ± 0.10 FRAC ± 1/64 HX ± 0.05 ANG ± 1° 30' FINISH		TITLE A BUS BOARD (ASI)			
		SEE CHART	C	8568	0
SCALE	SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV



BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1)				SCHEMATIC REVISION (S): 00		SHEET 6 OF 7		PAGE 6	
REF. DES.	WANG PART NO.	VALUE/TYP*	DESCRIPTION	DRAWING NO.	QTY.				
L10	376-0306-	74S373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		1				
L10	376-0317-	28LS2821	IC 8-BIT COMPARATOR		2				
L26									
L283 - L285	376-0320-	74S281	IC 8-INPUT MULTIPLEXER		8				
L287 - L289									
L5	376-0330-	74393	IC DUAL 4-BIT BINARY COUNTER		2				
L23									
L232	376-0332-	74LS283	IC 4-BIT BINARY FULL ADDER		1				
L233	376-0333-	74S139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1				
L233	376-0334-	74S240	IC OCTAL BUFFER/LINE DRIVER		1				
L9 - L10	376-0336-	74S283	IC 4-BIT BINARY FULL ADDER		10				
L88 - L89									
L88									
L111	376-0336-	74S181	IC 1-OF-8 DATA SEL/MUX		13				
L93									
L104									
L200									
L224									
L230 - L231									
L246									
L248									
L264									
L296									
L297 - L298	376-0337-	74S283	IC DUAL DATA SELECTOR/MULTIPLEXER TRI-STATE		10				
L61									
L77									
L83 - L84									
L86 - L87									
L103 - L104									
L106 - L107									
L129 - L130									
L182 - L184	376-0338-	74S244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		7				
L94									
L76									
L101									
L105									
L221									
L288									
L296									
L17	376-0339-	28S10	IC 4-BIT SHIFTER TRI-STATE OUTPUTS		9				
L72 - L73									
L99 - L100									
L102									
L128									
L180 - L181	376-0427-	74S198	IC 4-BIT PARRALLEL ACCESS SHIFT REGISTER		1				
L63	376-0610-	SKY 22	IC SOCKET 22 PIN DIL PC MOUNT		8				
Q2 - Q9									

BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1)				SCHEMATIC REVISION (S): 00		SHEET OF		PAGE 6	
REF. DES.	WANG PART NO.	VALUE/TYP*	DESCRIPTION	DRAWING NO.	QTY.				
Q10 - Q13	376-0011-	SKY 40	SOCKET 40 PIN DIL PC MOUNT		4				
Q1	810-8340-	PCB	PCB		1				
TP1 - TP91	684-1022-	TEST PTS	TEST POINTS		31				

BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1)				SCHEMATIC REVISION (S): 00		SHEET OF		PAGE 7	
REF. DES.	WANG PART NO.	VALUE/TYP*	DESCRIPTION	DRAWING NO.	QTY.				
CAUTION - THE FOLLOWING PARTS/COMPONENTS CONTAINED IN THIS B.O.M. ARE NOT RECOMMENDED FOR NEW DESIGNS									
376-0131-	74S257		IC QUAD DATA SELECT OR/MULTIPLEXERS		4				
376-0184-	74S81		IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		8				
376-0197-	74S04		IC HEX INVERTER		10				
376-0199-	74S02		IC QUAD 2-INPUT POSITIVE-NOR GATES		4				
376-0209-	74S08		IC QUAD 2-INPUT POSITIVE AND GATES		4				
376-0201-	74S44		IC 4-2-3-2 INPUT AND/OR-INVERT GATE		4				
376-0202-	74S74		IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		28				
376-0205-	74S32		IC QUAD 2-INPUT OR GATE		4				
376-0206-	74S260		IC QUAD 5-INPUT EXPANDER		16				
376-0215-	74S153		IC DUAL 4-INPUT MULTIPLEXER		4				
376-0217-	74S157		IC QUAD 2 TO 1 LINE DATA SEL/MUX		16				
376-0228-	74S08		IC QUAD 2-INPUT NAND GATE		7				
376-0230-	74S20		IC DUAL 4-INPUT POSITIVE NAND GATE		2				
376-0237-	74S11		IC TRIPLE 3-INPUT AND GATE		1				
376-0238-	74S10		IC TRIPLE 3-INPUT NAND GATE		1				
376-0271-	74S06		IC QUAD 2 IN EXCLUSIVE OR GATE		1				
376-0281-	93S10		IC SYNCHRONOUS BCD DECADE COUNTER M/S		1				
376-0290-	74S138		IC 3-LINE TO 8-LINE D-CODER/MULTIPLEXER		8				
376-0303-	74S374		IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		30				
376-0306-	74S373		IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		1				
376-0329-	74S281		IC 8-INPUT MULTIPLEXER		1				
376-0330-	74393		IC DUAL 4-BIT BINARY COUNTER		2				
376-0333-	74S139		IC 2 TO 4-LINE DECODER/MULTIPLEXER		1				
376-0324-	74S240		IC OCTAL BUFFER/LINE DRIVER		1				
376-0335-	74S283		IC 4-BIT BINARY FULL ADDER		10				
376-0336-	74S181		IC 1-OF-8 DATA SEL/MUX		13				
376-0337-	74S283		IC DUAL DATA SELECTOR/MULTIPLEXER TRI-STATE		16				
376-0338-	74S244		IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		9				
376-0339-	28S10		IC 4-BIT SHIFTER TRI-STATE OUTPUTS		9				
376-0427-	74S198		IC 4-BIT PARRALLEL ACCESS SHIFT REGISTER		1				

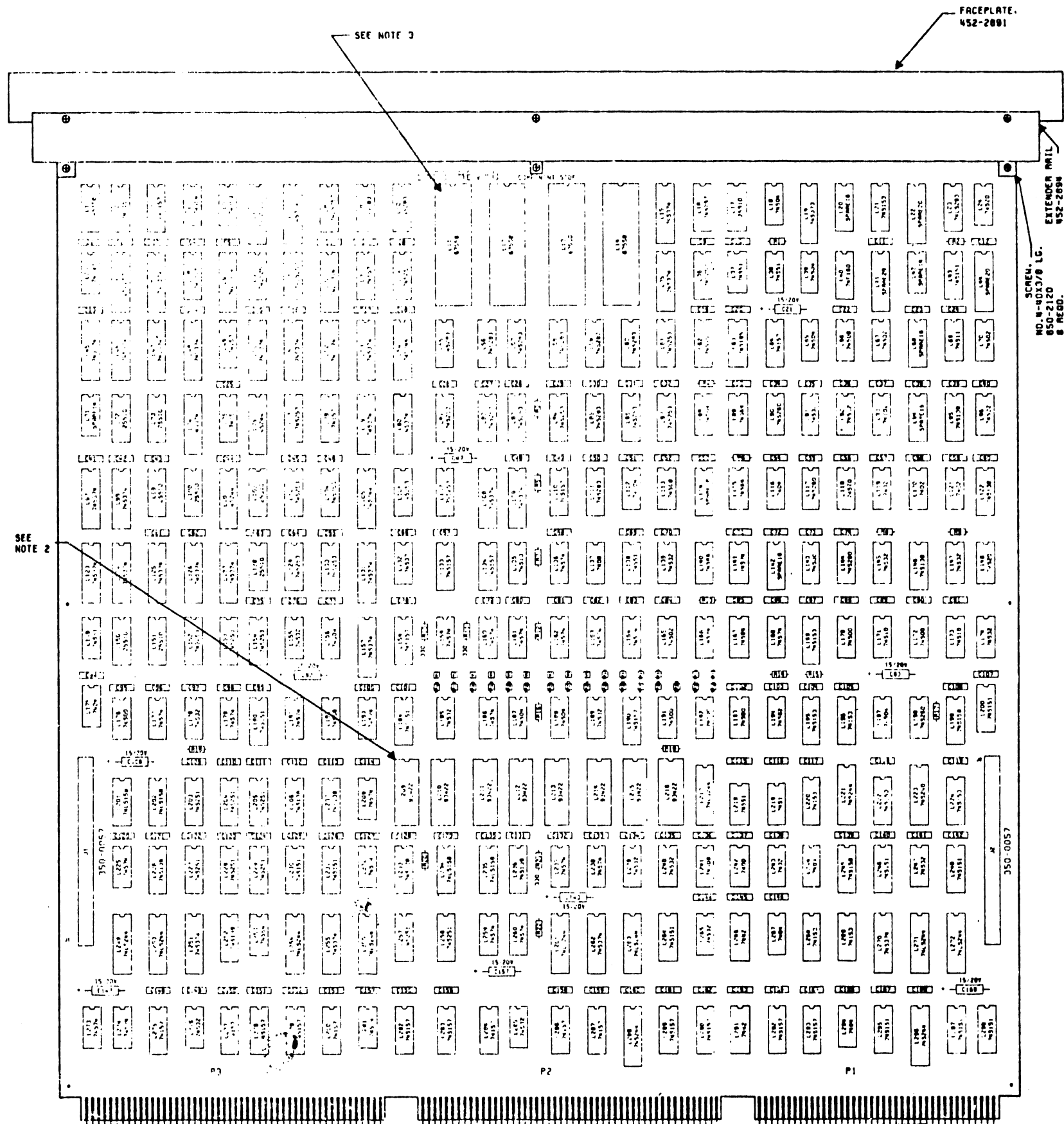
\*\*\* END-OF-REPORT \*\*\*

WANG LABORATORIES, INC.  
 \*\*\*\*\* ELECTRICAL PARTS LIST \*\*\*\*\*

BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1)				SCHEMATIC REVISION (S): 00		SHEET OF		PAGE 1	
REF. DES.	WANG PART NO.	VALUE/TYP*	DESCRIPTION	DRAWING NO.	QTY.				
***** (FINAL BILL-OF-MATERIALS) *****									
ASSEMBLY: 210-A									
CREATED: 05/02/84 14:21									
LAST MODIFIED: 05/08/84 08:38 BY: LAM									
EDITING REVISION: 1									
AUTOMATIC REVISION (R): 00									
ASSEMBLY REVISION (A): 00									
SCHEMATIC REVISION (S): 00									
DWM OR MOST RECENT ECO: E2350									
Q1	209-0560-	PCB	PCB		1				
L11 - L14	377-0350-	67550	IC 8 X 8 MULTIPLIER		4				
L209 - L216	377-0361-	93422	IC 256 X 4 BIPOLAR RAM 45NS 22 PIN		8				

\*\*\* END-OF-REPORT \*\*\*

<b>WANG</b> WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN		E ENGR	
MODEL NO.		CHK		M ENGR	
SET ENGRS SPECIFICATIONS		TITLE			
No		A BUS BOARD (AS1)			
FINISH		TOL EX AS NOTED JUN ± 010 FRAC ± 1/64 KUN ± 005 ANG ± 1°30' FINISH		SEE CHART	C
SCALE		SHT 7 OF 7		8568	0
		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV



SEE NOTE 2

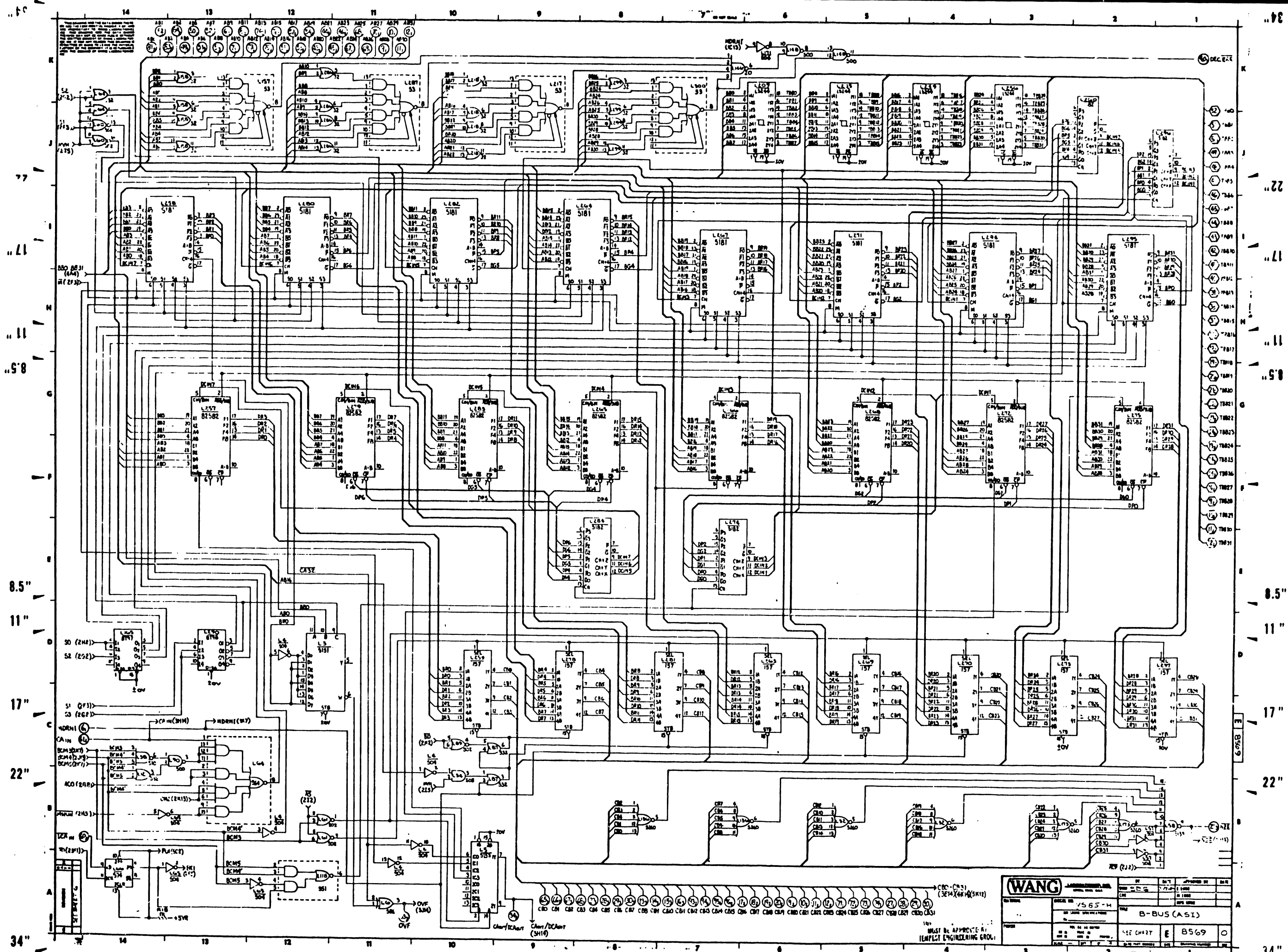
SEE NOTE 3

FACEPLATE.  
452-2891

SCREW.  
NO. N-803/8 LG.  
850-2120  
8 HEAD  
EXTENDER BRIL  
452-2894

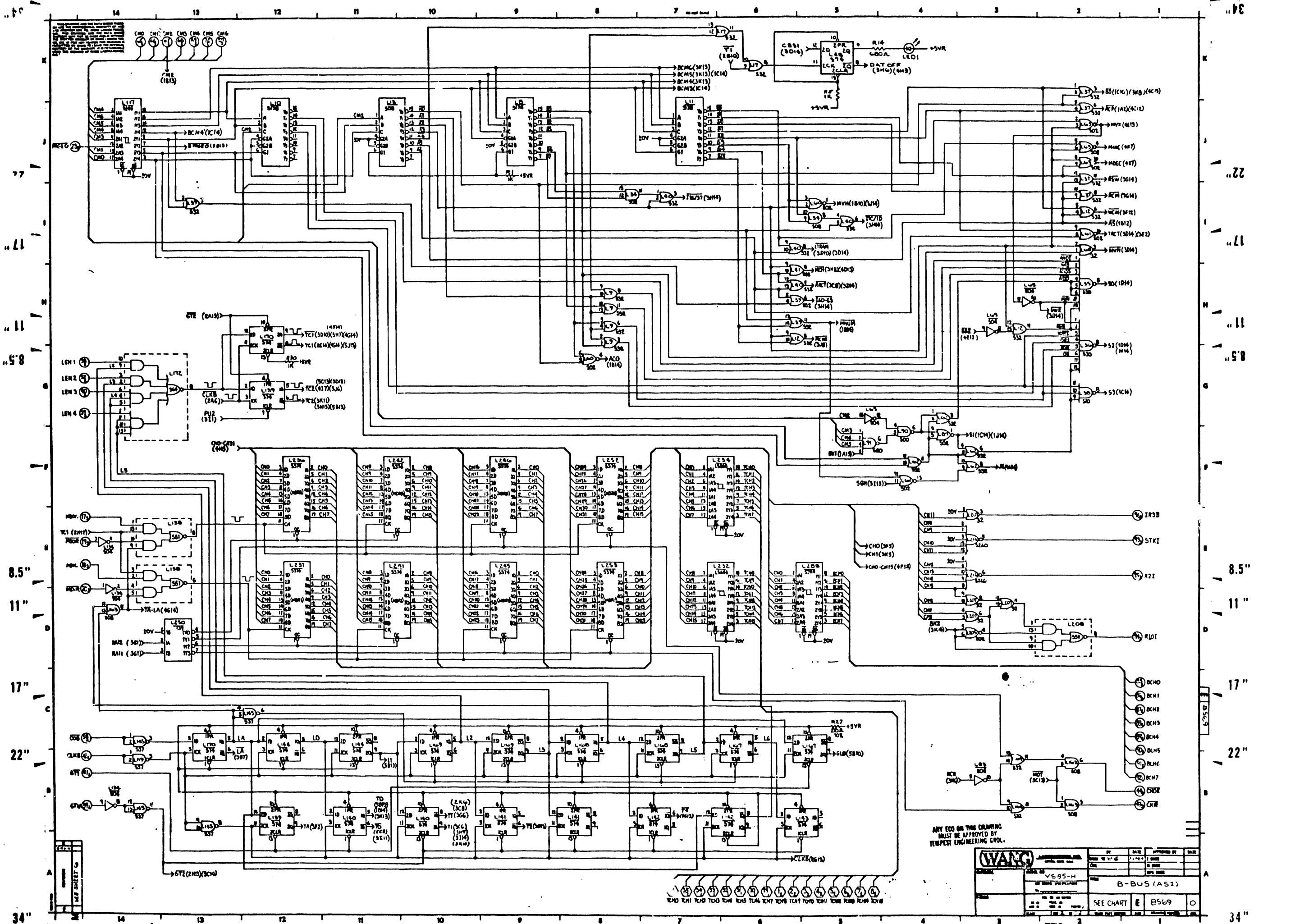
**WANG** WANG LABS A BUS FINELINE  
 ASI 5744 DB NO 11/15/84  
 ASSEMBLY PLOT  
 M  
 REV. 1 PER ECO NO. 33313 10 SEP 84

NOTES: 1. UNLESS OTHERWISE SPECIFIED:  
 ALL CAPACITORS ARE .047, 300-1966, EXPRESSED IN MICROFARADS.  
 ALL RESISTORS ARE 1K, 1/4W, 5Z, EXPRESSED IN OHMS.  
 ALL TEST POINTS(TP1-TP31) ARE 654-3022.  
 2. LOAD 22 PIN SKT(376-9010) IN LOCATIONS L209-L216.  
 3. LOAD 40 PIN SKT(376-9011) IN LOCATIONS L11-L14.



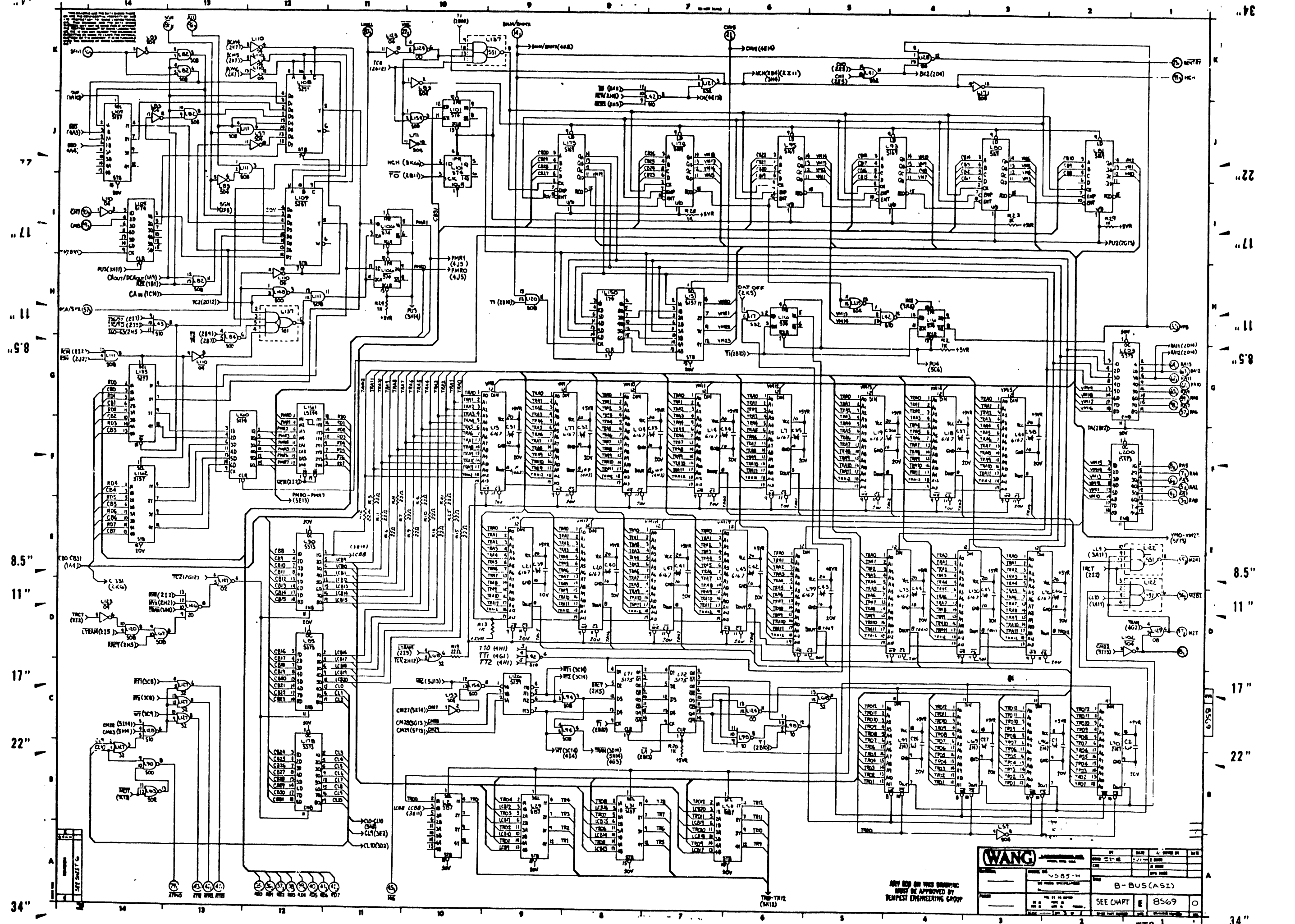
<b>WANG</b>		REV	DATE	APPROVED BY	DATE
PROJECT NO.	7565-M	REV	DATE	APPROVED BY	DATE
TITLE		B-BUS (ASL)			
DRAWN BY		SEE CHART			
CHECKED BY		E 8569			
DATE		REV			

MUST BE APPROVED BY:  
TEMPLET ENGINEERING CORP.



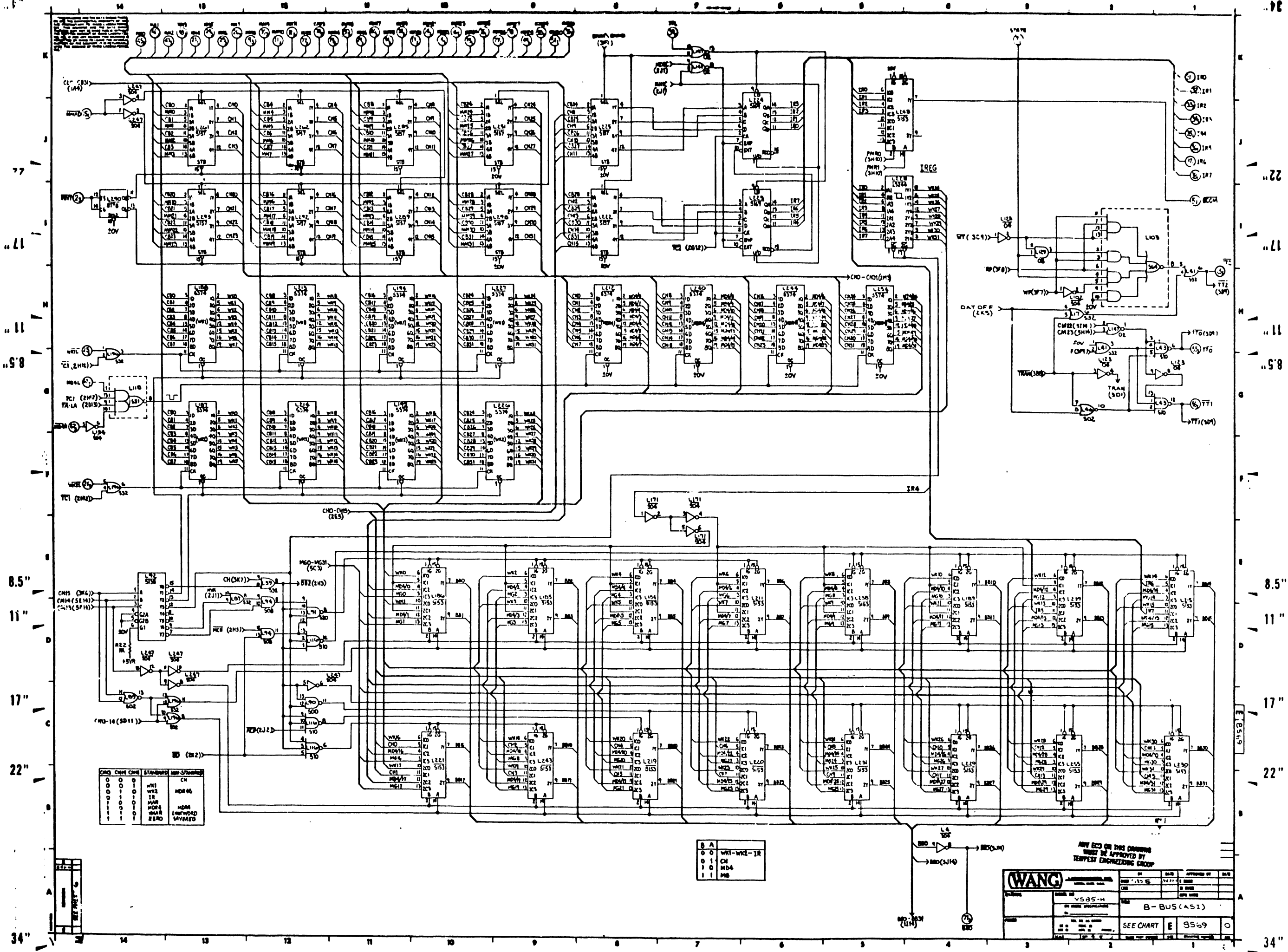
		BY: [Signature] DATE: [Date] APPROVED BY: [Signature] DATE: [Date]
VS95-H OF [Number] [Number] [Number] [Number]		B-BUS (AS1) SEE CHART E BS69
[Number] [Number] [Number] [Number]	[Number] [Number] [Number] [Number]	[Number] [Number] [Number] [Number]

TT2



<b>WANG</b>		DATE	BY
REV	DESCRIPTION	DATE	BY
1	B-BUS (ASI)		
2	SEE CHART		
3	8569		
4	TT3		

ANY RED ON THIS DRAWING  
MUST BE APPROVED BY  
TEMPEST ENGINEERING GROUP



CH0	CH1	CH2	STANDARD	MIN-STANDARD	CH
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34

S	A
0	WT1-WT2-IR
1	CH
10	MD4
11	MB

ANY ECO ON THIS DRAWING MUST BE APPROVED BY TEMPTEST ENGINEERING GROUP

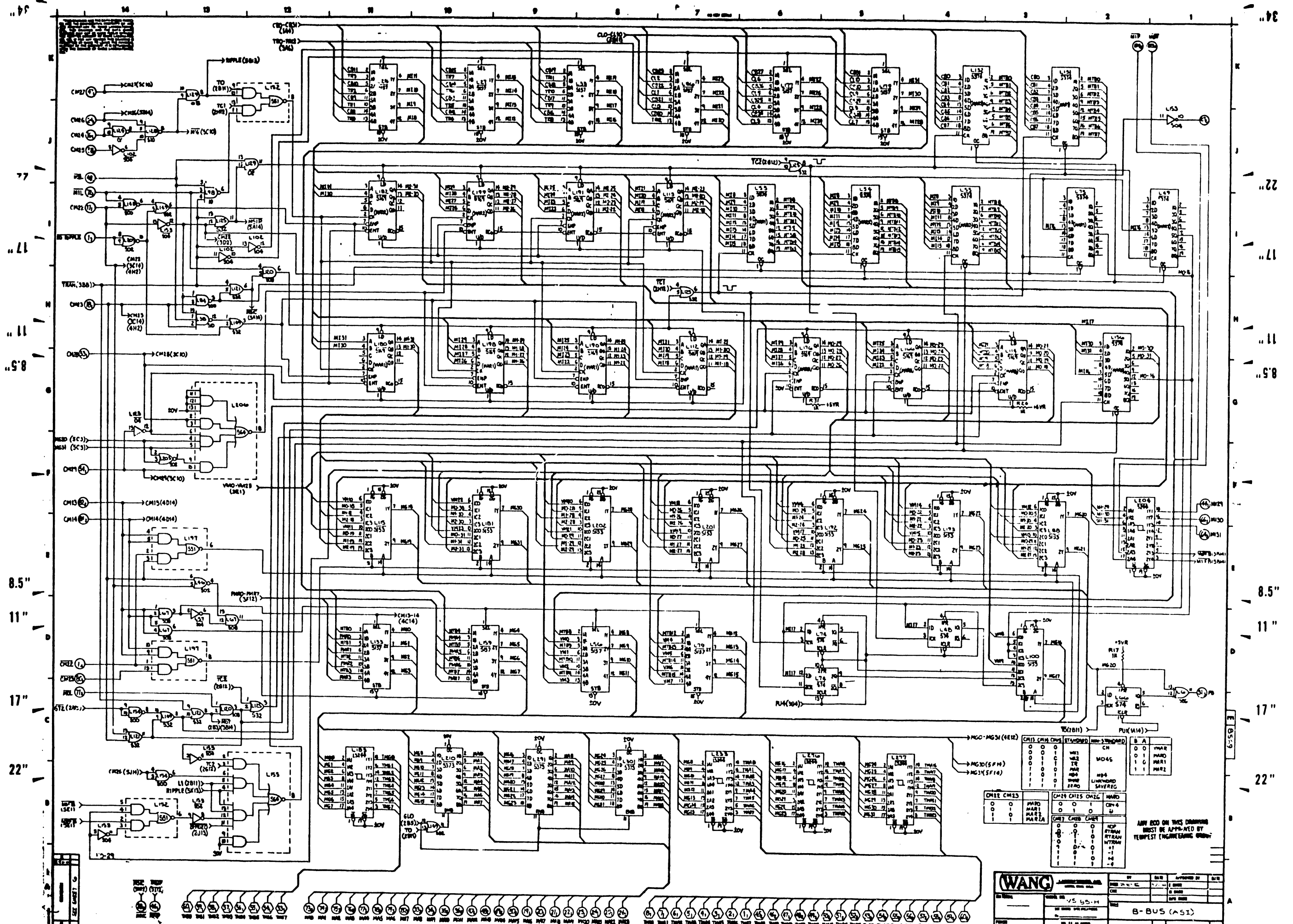
**(WANG)**

DATE	BY	APPROVED BY	DATE
10/15/69	...	...	...

VS85-M

B-BUS (AS1)

SEE CHART E 95-69



CM11	CM12	CM13	CM14	CM15
0	0	0	0	0
0	0	0	0	1
0	0	0	1	0
0	0	0	1	1
0	0	1	0	0
0	0	1	0	1
0	0	1	1	0
0	0	1	1	1
0	1	0	0	0
0	1	0	0	1
0	1	0	1	0
0	1	0	1	1
0	1	1	0	0
0	1	1	0	1
0	1	1	1	0
0	1	1	1	1
1	0	0	0	0
1	0	0	0	1
1	0	0	1	0
1	0	0	1	1
1	0	1	0	0
1	0	1	0	1
1	0	1	1	0
1	0	1	1	1
1	1	0	0	0
1	1	0	0	1
1	1	0	1	0
1	1	0	1	1
1	1	1	0	0
1	1	1	0	1
1	1	1	1	0
1	1	1	1	1

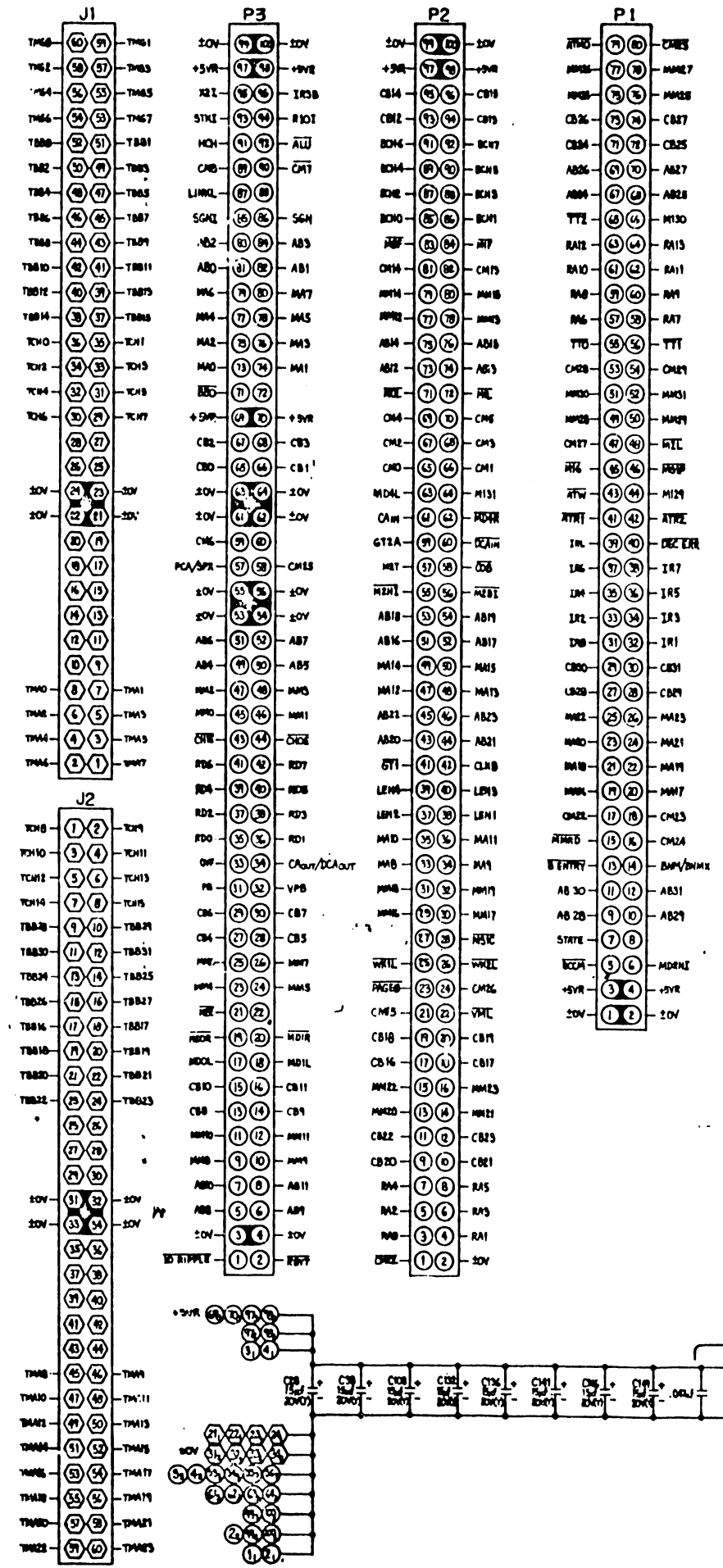
CM16	CM17	CM18	CM19
0	0	0	0
0	0	0	1
0	0	1	0
0	0	1	1
0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	1
1	0	0	0
1	0	0	1
1	0	1	0
1	0	1	1
1	1	0	0
1	1	0	1
1	1	1	0
1	1	1	1

ANY ECO ON THIS DRAWING MUST BE APPROVED BY TEMPEST (ENGINEERING GROUP)

<b>(WANG)</b>		BY	CHK	APP'D BY	DATE
DESIGNED BY	VS 15-H				
DRW. NO.	B-BUS (AS1)				
REV.	SEE CHART	E	B569	0	

TYPE	LOC	QTY
7400	L124	1
7400	L84	2
7401	L86	2
7401	L89	1
7401	L85	1
7404	L134	2
7404	L102	1
7404	L57	1
7408	L165	1
7432	L68	1
7432	L87	1
7437	L119	3
7451	L208	1
7457	L143	1
7458	L6	2
7459	L16	1
7459	L250	1
7460	L171	1
7470	L101	1

DESCRIPTION	QTY
ABO-AB31	1K14
ALU	3K13
ATRE	3A13
ATRE	3A13
ATRE	3A13
ATW	3A13
BCH0-BCH7	2C1
BMM/BMM2	3K1
BENTRY	3K1
BNS	4A4
BEZM	4E1
CAH	1C10
CAout/DCout	1A9
CB0-CB31	1A9
CLM	2B14
CMD-CMD	2K14
CM8	3I14
CM13	5F14
CM14	5E14
CM15	3K7
CM12	5I14
CM13	5H14
CM14-CM26	5J14
CM17	5K14
CM7	3I14
CM11	5D14
CM1	2C14
CM2	2B1
CM15	5C14
CM13	1K1
CM1	1B14
GT2A	2B14
GYT	2B14
HCN	3K1
IRL	4K7
IR0-IR7	4K1
IASB	2E1
LEN1-LEN4	2E14
LMHL	3K11
MAP	3K1
MAT	5K2
MBC	3C14
MBC	5I14
MBC	5J14
MET	3D1
MTC	3A1
M129-M131	5F1
MMD-MM31	4K14
MDL	2E14
MDL	2E14
MMD-MM25	5A10
MDAL	4G14
MDCM	2E14
MDCM	2E14
MDCM	4G14
MDCM	4J14
MDCM	5A14
MDCM	5A14
MDCM	3D1
MDCM	3E1
MDCM	1C14
NO TRIPPLE	5I14
NO TRIPPLE	1B1
NO TRIPPLE	1A11
NO TRIPPLE	2J14
NO TRIPPLE	5D1
NO TRIPPLE	3H14
NO TRIPPLE	3F1
NO TRIPPLE	4I14
NO TRIPPLE	3A12
NO TRIPPLE	2D1
NO TRIPPLE	5G1
NO TRIPPLE	3K13
NO TRIPPLE	3K14
NO TRIPPLE	4K3
NO TRIPPLE	2E1
NO TRIPPLE	1J1
NO TRIPPLE	2A7
NO TRIPPLE	5A7
NO TRIPPLE	5A7
NO TRIPPLE	4H1
NO TRIPPLE	4H1
NO TRIPPLE	3K1
NO TRIPPLE	3K1
NO TRIPPLE	4G14
NO TRIPPLE	4F14
NO TRIPPLE	2E1



210 = 209 + 377 OR 378			
210	209	1,719,15,18,21,44,95	1,69,70,76,77
8549A	8569	377-0448	377-0412

ANY ECO ON THIS DRAWING MUST BE APPROVED BY SUPERVISING ENGINEER

E-REV

WANG	DATE	APPROVED BY	REV
	10/25/77	[Signature]	1
PART NO. 85-H		B-BUS (ASI)	
SEE DRAWING		E 8569	

TT6



BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 2

REF. DES. WANG PART NO. VALUE/TYPE DESCRIPTION DRAWING NO. QTY.

C22 - C23	300-1930-	.10	CAP CERAMIC NPOB RAD +00% -20% 50V Z5U		18
C21 - C46	300-1964-	.0470	CAP CERAMIC NPOB AXIAL +00 -20% 50V Z5U		140
C20 - C21	300-4022-	10U	CAP TANT AXIAL 10% 20V		8
R2 - R4	330-1023-	22.000	RES FIXED METAL FILM 1/4W 5% 200PPM		14
R27	330-2026-	270.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R14	330-2049-	690.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R1 - R2	330-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		18
J1 - J2	300-0057-	60 CONT	CONN PC HEADER DUAL NOM .100 R/A W/LOCK/EJECT		2
L124	376-0075-	LED	LED RED DIFFUSED RED 3MCD TYP		1
L90	376-0082-	7400	IC QUAD 2-INPUT NAND GATE		1
L146	376-0084-	7420	IC TRIP 3-INPUT NAND GATE		1
L110	376-0010-	7404	IC DUAL 4-INPUT NAND GATE		1
L123			IC HEX INVERTER		2
L147	376-0016-	7402	IC QUAD 2-INPUT NOR GATE		1

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 3

REF. DES. WANG PART NO. VALUE/TYPE DESCRIPTION DRAWING NO. QTY.

L187	376-0067-	7403	IC EXPANDABLE 4-INPUT AND-OR-INVERT GATE		6
L260	376-0061-	7400	IC QUAD 2-INPUT AND GATE		1
L268	376-0083-	74187	IC QUAD 2-INPUT MULTIPLEXER		8
L269 - L270					
L273					
L276					
L281					
L297					
L40	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		7
L127					
L180					
L207					
L210					
L286					
L299					
L150	376-0090-	74174	IC HEX 5 FLIP-FLOP		1
L158	376-0131-	745287	IC QUAD DATA SELECT OR/MULTIPLEXERS		1
L110	376-0104-	74581	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		7
L172					
L137 - L138					
L182					
L197					
L206					
L290	376-0188-	8790	IC HEX INVERTER 16 PIN DIP		1
L166	376-0189-	8797	IC HEX BUFFER 16 PIN DIP		1
L4	376-0197-	74504	IC HEX INVERTER		9
L87					
L88					
L83					
L102					
L154					
L183					
L171					
L247					
L35 - L36	376-0190-	74530	IC 8-INPUT NAND GATE		2
L46	376-0199-	74582	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L40 - L41					
L83					
L89					
L285	376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		7
L34					
L67					
L82					
L94					
L111					
L120					

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 4

REF. DES. WANG PART NO. VALUE/TYPE DESCRIPTION DRAWING NO. QTY.

L163	376-0201-	74564	IC 4-2-2-2 INPUT AND/OR-INVERT GATE		8
L64					
L185					
L172					
L206	376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		16
L16					
L40					
L66					
L74					
L101					
L106					
L139 - L144					
L167 - L170	376-0205-	74532	IC QUAD 2-INPUT OR GATE		18
L9					
L12					
L17					
L37					
L39 - L41					
L62					
L87					
L119					
L121					
L126					
L149					
L164					
L196	376-0206-	745260	IC DUAL 6-INPUT EXPANDER		6
L32					
L136					
L173					
L216	376-0210-	745183	IC DUAL 4-INPUT MULTIPLEXER		26
L8					
L68					
L100					
L115					
L181					
L104 - L106					
L109					
L192 - L193					
L201 - L202					
L211					
L218					
L219 - L221					
L229 - L231					
L238 - L239					
L243					
L248					
L255					
L3	376-0217-	745187	IC QUAD 2 TO 1 LINE DATA SEL/MUL		27
L27 - L29					

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 4

REF. DES. WANG PART NO. VALUE/TYPE DESCRIPTION DRAWING NO. QTY.

L31					
L33					
L56					
L59					
L79					
L86					
L107					
L133					
L161					
L189					
L162					
L177					
L179					
L222					
L225					
L251					
L261 - L262					
L285					
L289					
L292 - L293					
L296					
L84	376-0220-	74500	IC QUAD 2-INPUT NAND GATE		4
L90					
L140					
L184					
L91	376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		1
L287	376-0234-	82582	IC 8CB ARITHMETIC UNIT		8
L265 - L266					
L260					
L272					
L275					
L279					
L283					
L30	376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		8
L42 - L43					
L116					
L128					
L108	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		2
L160					
L258	376-0250-	745181	IC 4-BIT ARITHMETIC LOGIC UNIT		8
L264					
L267					
L271					
L280					
L282					
L294 - L296					
L71 - L72					
L6	376-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		2
L6	376-0271-	74580	IC QUAD 2 TR EXCLUSIVE OR GATE		1
L60	376-0276-	745133	IC 13-INPUT NAND GATE		1
L60	376-0280-	745244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		12
L161					

WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL MODEL NO. SEE ENGR SPECIFICATIONS No. _____		CHK		M ENGR	
				MFG ENGR	
FINISH TOL EX AS NOTED .001 ± .010 FRAC ± 1/64 HOLE ± .005 ANG ± 1°30' FINISH		TITLE		B-BUS	
		SEE CHART	D	8569	0
SCALE 1/4" = 1" 7 OF 8		WANG PART NUMBER	DATE	DRAWING NUMBER	REV

7.5"  
8.5"  
11"  
17"

7.5"  
8.5"  
11"  
17"

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET 7 OF 8 PAGE 5

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L763					
L764					
L765					
L766 - L768					
L769					
L770 - L777					
L145	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		1
L8	376-0293-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		8
L10 - L11					
L12					
L92					
L99	376-0301-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		28
L93 - L96					
L76					
L121 - L132					
L156					
L167 - L168					
L194 - L196					
L212 - L214					
L226 - L227					
L236 - L237					
L249 - L252					
L264 - L266					
L282 - L284					
L30	376-0304-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		7
L85					
L178					
L293					
L310					
L391					
L361					
L200	376-0310-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		1
L100 - L109	376-0329-	745281	IC 8-INPUT MULTIPLEXER		2
L80 - L81	376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		19
L95					
L112 - L114					
L164					
L174 - L176					
L189					
L182					
L190 - L191					
L190 - L199					
L223 - L224					
L126	376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
L260					
L3	376-0336-	745181	IC 1-OF-8 DATA SEL/MUX		1
L117	376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		3
L204					

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 6

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L288					
L289	376-0469-	745182	IC LOOK-AHEAD CARRY GENERATOR		4
L274					
L280					
L286					
02 - 021	376-0016-	SKT 18	IC SOCKET 18 PIN DIL PC MOUNT		20
01	516-6529-		PCB		1

BOARD NO. & TITLE: C8569 "B BUS" (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 7

WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
376-0131-	745267	IC QUAD DATA SELECT OR/MULTIPLEXERS		1
376-0184-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		7
376-0185-	0798	IC HEX INVERTER 16 PIN DIP		1
376-0189-	0797	IC HEX BUFFER 16 PIN DIP		1
376-0197-	74504	IC HEX INVERTER		9
376-0198-	74538	IC 8-INPUT NAND GATE		2
376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		7
376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		6
376-0201-	74564	IC 4-2-3-2 INPUT AND/OR-INVERT GATE		8
376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		16
376-0205-	74532	IC QUAD 2-INPUT OR GATE		18
376-0206-	745260	IC DUAL 5-INPUT EXPANDER		6
376-0210-	745133	IC DUAL 4-INPUT MULTIPLEXER		26
376-0217-	745157	IC QUAD 2 TO 1 LINE DATA SEL/MUX		27
376-0228-	74509	IC QUAD 2-INPUT NAND GATE		4
376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		1
376-0234-	82582	IC BCD ARITHMETIC UNIT		1
376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		8
376-0267-	745174	IC HEX D-TYPE FLIP-FLOP		8
376-0280-	745181	IC 4-BIT ARITHMETIC LOGIC UNIT		2
376-0278-	745178	IC QUAD D-TYPE FLIP-FLOP		8
376-0271-	74546	IC QUAD 2 IN EXCLUSIVE OR GATE		1
376-0276-	745133	IC 11-INPUT NAND GATE		1
376-0290-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		8
376-0301-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		28
376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		7
376-0329-	745281	IC 8-INPUT MULTIPLEXER		2
376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		19
376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
376-0336-	745181	IC 1-OF-8 DATA SEL/MUX		1
376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		3
376-0469-	745182	IC LOOK-AHEAD CARRY GENERATOR		4


WANG LABORATORIES, INC. ELECTRICAL PARTS LIST SHEET OF PAGE 1 (FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8569 "B BUS" (AS1) ASSEMBLY: 210-A  
 SCHEMATIC REVISION (S): 00  
 DWN OR MOST RECENT ECD: E2343  
 CREATED: 04/09/84 09:02  
 LAST MODIFIED: 04/10/84 11:08 BY: LAB  
 EDITING REVISION: 1

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
01	289-8820-		PCA		1
L99 - L70	377-0412-	6147	IC MC 4 1 SRAM 70H 18 PIN		4
L96 - L97					
L7	377-0448-	6167	IC 16KX1 CMOS SRAM 70HS		16
L14 - L18					
L18 - L21					
L44 - L48					
L47					
L73					
L76 - L77					
L99					
L104					
L130					

\*\*\* END-OF-REPORT \*\*\*

\*\*\* END-OF-REPORT \*\*\*

 <b>WANG LABORATORIES, INC.</b> LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL		CHK		M ENGR	
				MFG ENGR	
MODEL NO		TITLE			
SEE ENGAG SPECIFICATIONS		B - BUS			
FINISH		TOL EX AS NOTED HOLE ± .010 FRAC ± 1/64 HOLE ± .005 ANG ± 1°30' FINISH V	SEE CHART	D	8569
SCALE	1/8" = 1"	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

17"

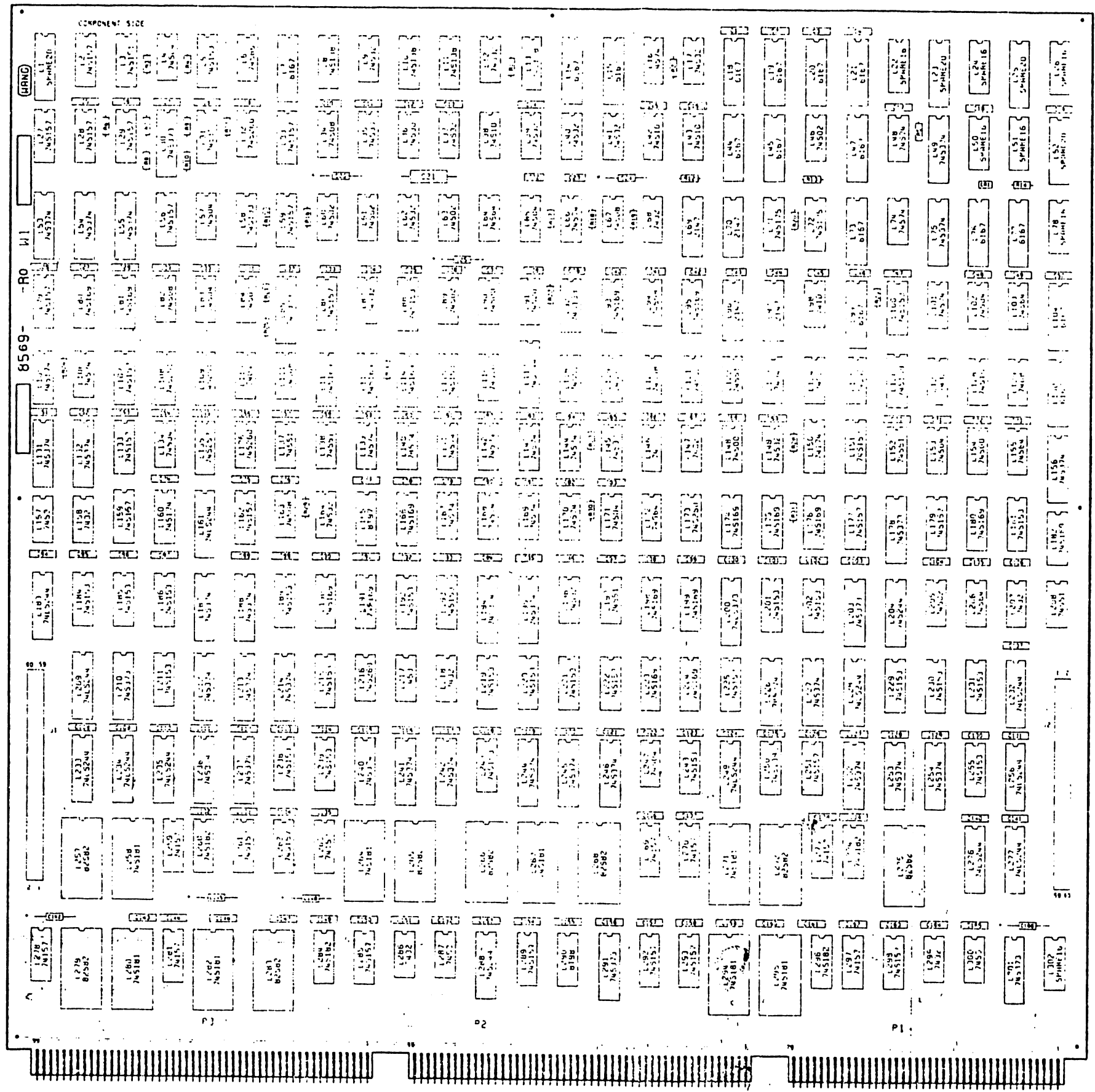
11"


8.5"

8.5"

11"

17"




**WANG LABS 8-BUS**  
 ASI 5722 07 23 12/02/83  
 ASSEMBLY PLOT

T70

17"

11"

8.5"

8.5"

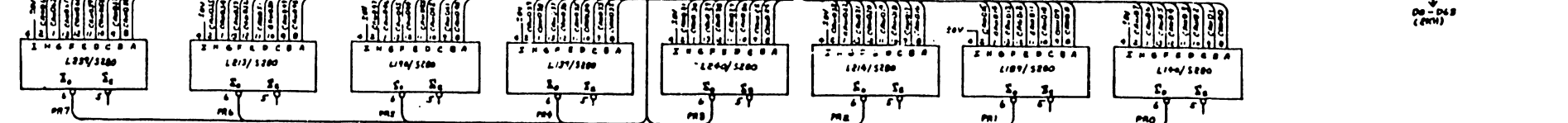
11"

17"

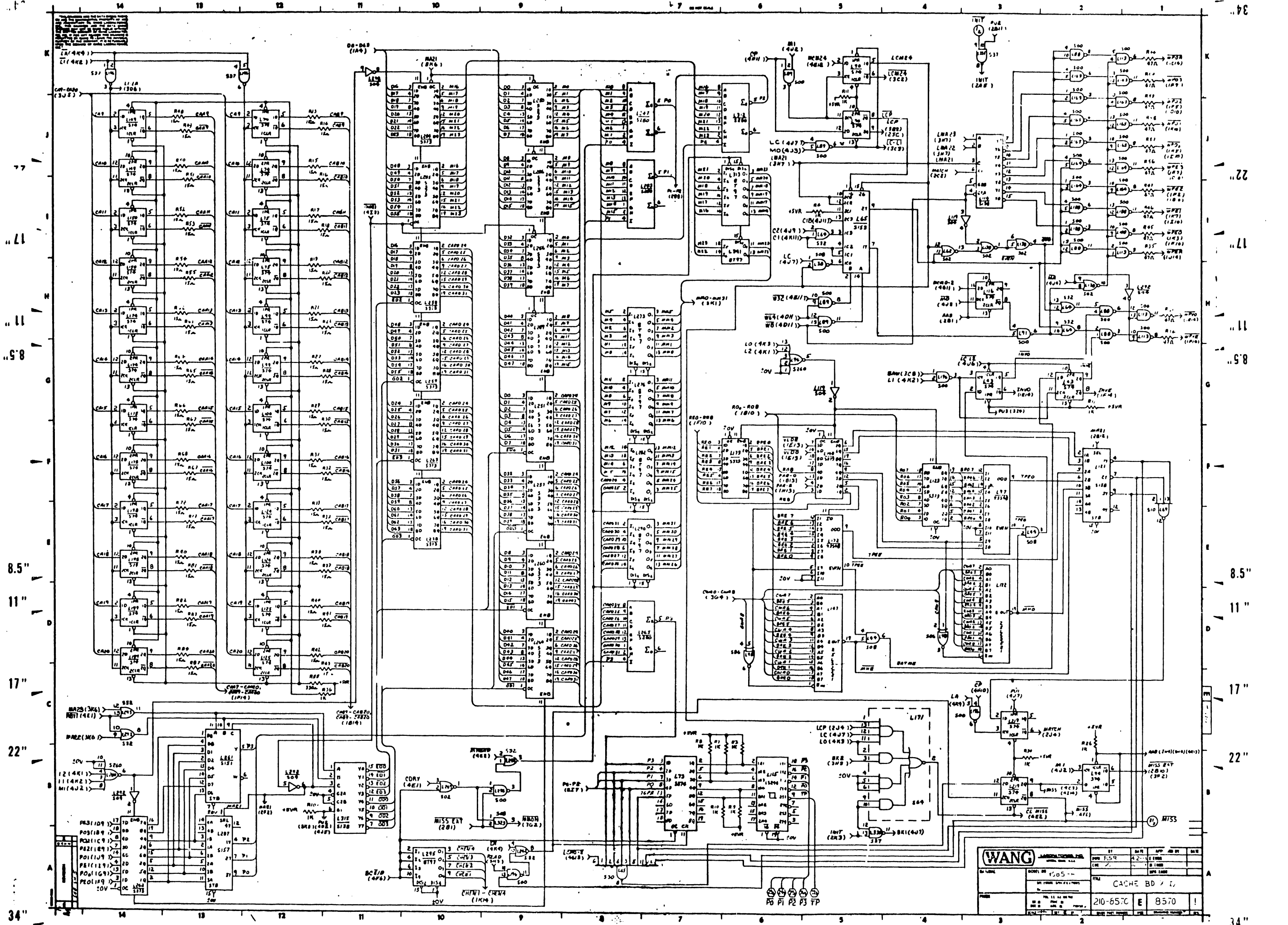


77  
11  
58  
8.5  
11  
17  
22

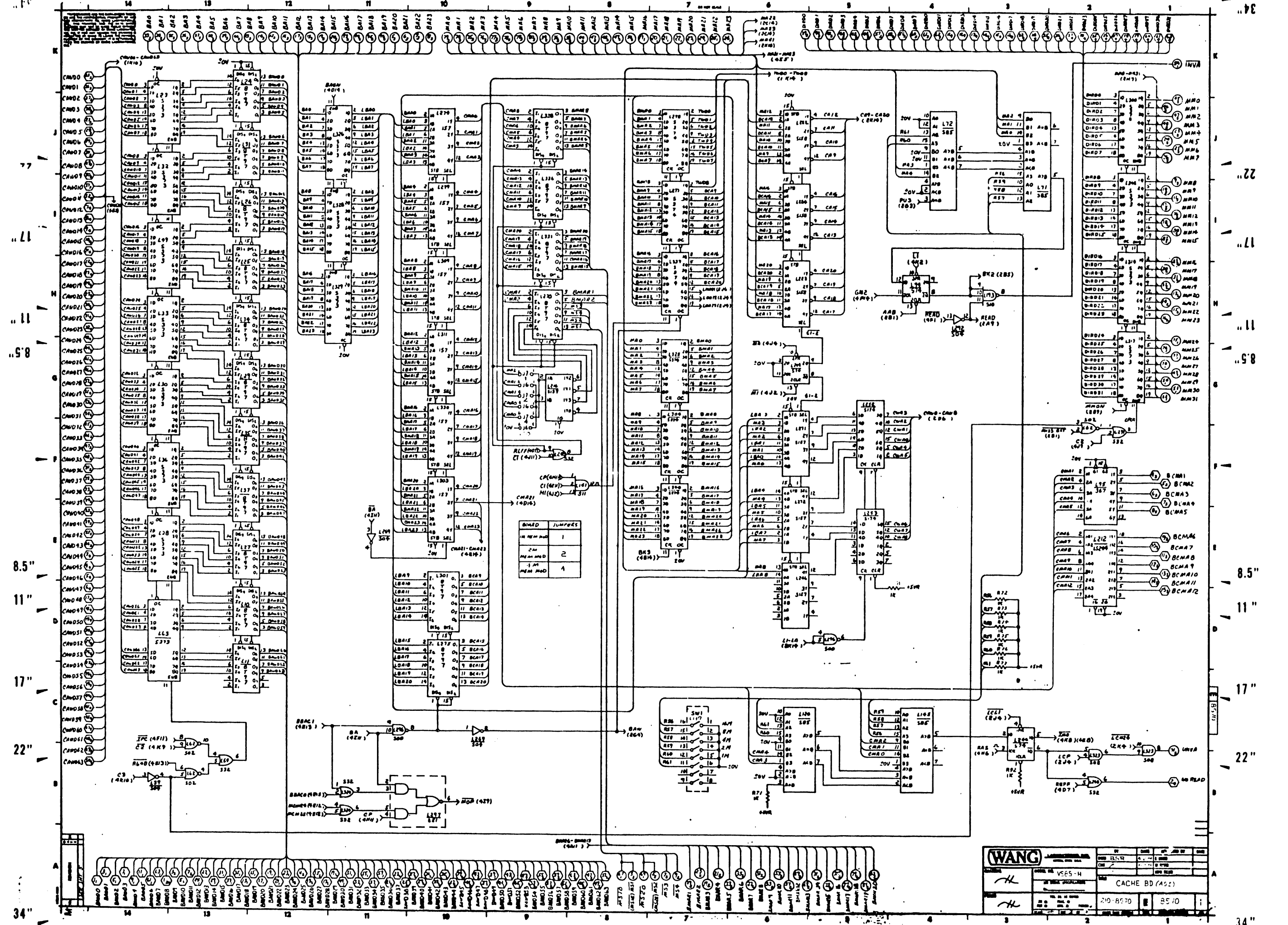
34  
22  
17  
11  
8.5  
11  
17  
22  
34



<b>WANG</b>		DATE	BY	CHKD BY	APP'D BY
MODEL NO. V585-H	REV. 1	10-25-70	E	8570	1
CACHE BOARD					



WANG INTERNATIONAL, INC.		Model No.	210-65
Cache BD		Rev.	1
210-65°C		E	8570
1			



BOARD	JUMPER
IN MEM MOD	1
2M	2
1M	4

**WANG**

V565-H

CACHE BD (AS.1)

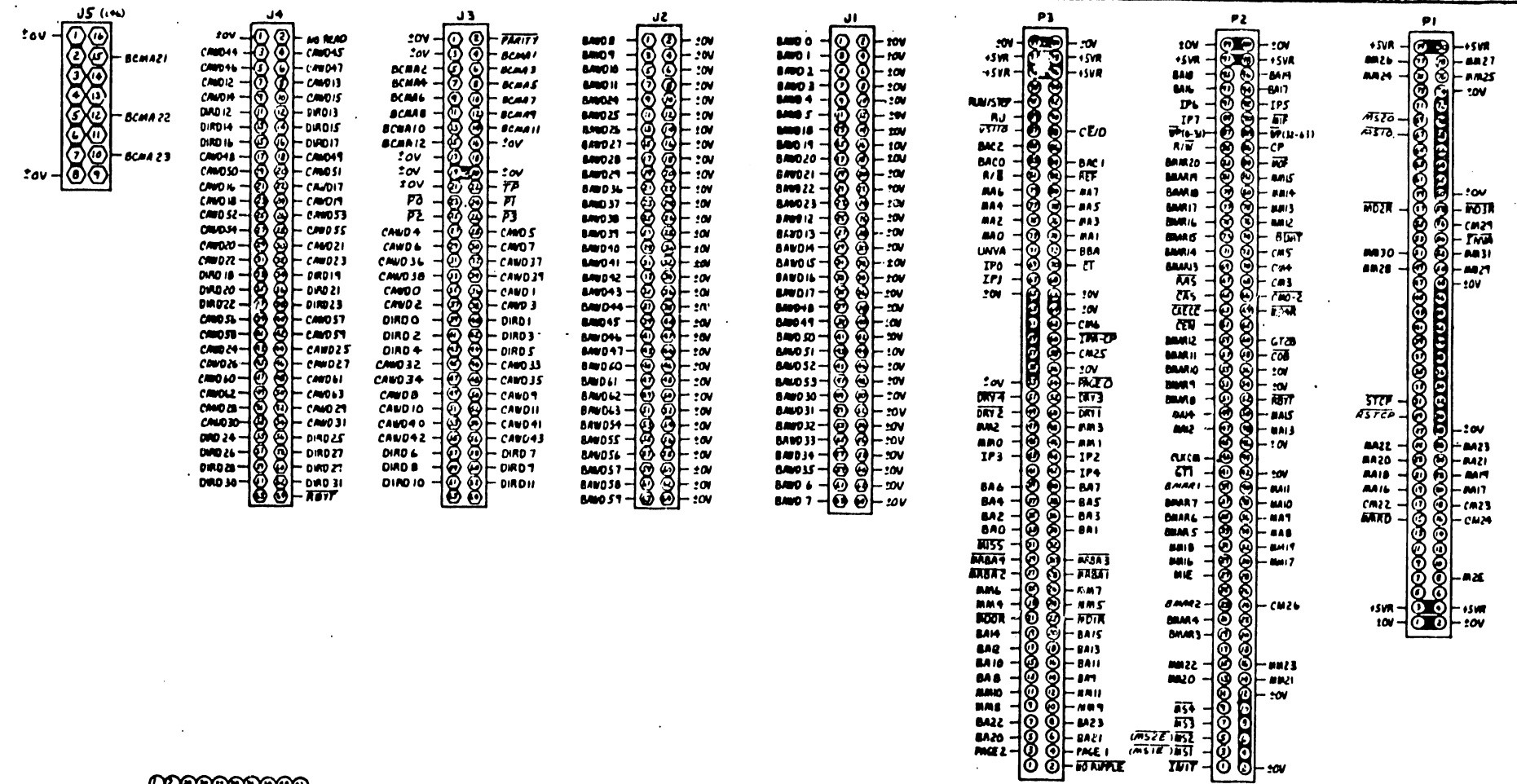
210-8570

8570

UU3



TYPE	Location	VALUES
70100	L10	1
70101	L10	2
70102	L10	3
70103	L10	2
70104	L10	1
70105	L10	1
70106	L10	1
70107	L10	1
70108	L10	1
70109	L10	1
70110	L10	1
70111	L10	1
70112	L10	1
70113	L10	1
70114	L10	1
70115	L10	1
70116	L10	1
70117	L10	1
70118	L10	1
70119	L10	1
70120	L10	1
70121	L10	1
70122	L10	1
70123	L10	1
70124	L10	1
70125	L10	1
70126	L10	1
70127	L10	1
70128	L10	1
70129	L10	1
70130	L10	1
70131	L10	1
70132	L10	1
70133	L10	1
70134	L10	1
70135	L10	1
70136	L10	1
70137	L10	1
70138	L10	1
70139	L10	1
70140	L10	1
70141	L10	1
70142	L10	1
70143	L10	1
70144	L10	1
70145	L10	1
70146	L10	1
70147	L10	1
70148	L10	1
70149	L10	1
70150	L10	1



ADDRESS	COORD	ADDRESS	COORD	ADDRESS	COORD
BA0-BA3	211	BA0-BA3	210	BA0-BA3	207
BA4-BA7	210	BA4-BA7	206	BA4-BA7	206
BA8	209	BA8	205	BA8	205
BA9	208	BA9	204	BA9	204
BA10-BA13	207	BA10-BA13	203	BA10-BA13	203
BA14-BA17	206	BA14-BA17	202	BA14-BA17	202
BA18-BA21	205	BA18-BA21	201	BA18-BA21	201
BA22-BA25	204	BA22-BA25	200	BA22-BA25	200
BA26-BA29	203	BA26-BA29	199	BA26-BA29	199
BA30-BA33	202	BA30-BA33	198	BA30-BA33	198
BA34-BA37	201	BA34-BA37	197	BA34-BA37	197
BA38-BA41	200	BA38-BA41	196	BA38-BA41	196
BA42-BA45	199	BA42-BA45	195	BA42-BA45	195
BA46-BA49	198	BA46-BA49	194	BA46-BA49	194
BA50-BA53	197	BA50-BA53	193	BA50-BA53	193
BA54-BA57	196	BA54-BA57	192	BA54-BA57	192
BA58-BA61	195	BA58-BA61	191	BA58-BA61	191
BA62-BA65	194	BA62-BA65	190	BA62-BA65	190
BA66-BA69	193	BA66-BA69	189	BA66-BA69	189
BA70-BA73	192	BA70-BA73	188	BA70-BA73	188
BA74-BA77	191	BA74-BA77	187	BA74-BA77	187
BA78-BA81	190	BA78-BA81	186	BA78-BA81	186
BA82-BA85	189	BA82-BA85	185	BA82-BA85	185
BA86-BA89	188	BA86-BA89	184	BA86-BA89	184
BA90-BA93	187	BA90-BA93	183	BA90-BA93	183
BA94-BA97	186	BA94-BA97	182	BA94-BA97	182
BA98-BA101	185	BA98-BA101	181	BA98-BA101	181
BA102-BA105	184	BA102-BA105	180	BA102-BA105	180
BA106-BA109	183	BA106-BA109	179	BA106-BA109	179
BA110-BA113	182	BA110-BA113	178	BA110-BA113	178
BA114-BA117	181	BA114-BA117	177	BA114-BA117	177
BA118-BA121	180	BA118-BA121	176	BA118-BA121	176
BA122-BA125	179	BA122-BA125	175	BA122-BA125	175
BA126-BA129	178	BA126-BA129	174	BA126-BA129	174
BA130-BA133	177	BA130-BA133	173	BA130-BA133	173
BA134-BA137	176	BA134-BA137	172	BA134-BA137	172
BA138-BA141	175	BA138-BA141	171	BA138-BA141	171
BA142-BA145	174	BA142-BA145	170	BA142-BA145	170
BA146-BA149	173	BA146-BA149	169	BA146-BA149	169
BA150-BA153	172	BA150-BA153	168	BA150-BA153	168
BA154-BA157	171	BA154-BA157	167	BA154-BA157	167
BA158-BA161	170	BA158-BA161	166	BA158-BA161	166
BA162-BA165	169	BA162-BA165	165	BA162-BA165	165
BA166-BA169	168	BA166-BA169	164	BA166-BA169	164
BA170-BA173	167	BA170-BA173	163	BA170-BA173	163
BA174-BA177	166	BA174-BA177	162	BA174-BA177	162
BA178-BA181	165	BA178-BA181	161	BA178-BA181	161
BA182-BA185	164	BA182-BA185	160	BA182-BA185	160
BA186-BA189	163	BA186-BA189	159	BA186-BA189	159
BA190-BA193	162	BA190-BA193	158	BA190-BA193	158
BA194-BA197	161	BA194-BA197	157	BA194-BA197	157
BA198-BA201	160	BA198-BA201	156	BA198-BA201	156
BA202-BA205	159	BA202-BA205	155	BA202-BA205	155
BA206-BA209	158	BA206-BA209	154	BA206-BA209	154
BA210-BA213	157	BA210-BA213	153	BA210-BA213	153
BA214-BA217	156	BA214-BA217	152	BA214-BA217	152
BA218-BA221	155	BA218-BA221	151	BA218-BA221	151
BA222-BA225	154	BA222-BA225	150	BA222-BA225	150
BA226-BA229	153	BA226-BA229	149	BA226-BA229	149
BA230-BA233	152	BA230-BA233	148	BA230-BA233	148
BA234-BA237	151	BA234-BA237	147	BA234-BA237	147
BA238-BA241	150	BA238-BA241	146	BA238-BA241	146
BA242-BA245	149	BA242-BA245	145	BA242-BA245	145
BA246-BA249	148	BA246-BA249	144	BA246-BA249	144
BA250-BA253	147	BA250-BA253	143	BA250-BA253	143
BA254-BA257	146	BA254-BA257	142	BA254-BA257	142
BA258-BA261	145	BA258-BA261	141	BA258-BA261	141
BA262-BA265	144	BA262-BA265	140	BA262-BA265	140
BA266-BA269	143	BA266-BA269	139	BA266-BA269	139
BA270-BA273	142	BA270-BA273	138	BA270-BA273	138
BA274-BA277	141	BA274-BA277	137	BA274-BA277	137
BA278-BA281	140	BA278-BA281	136	BA278-BA281	136
BA282-BA285	139	BA282-BA285	135	BA282-BA285	135
BA286-BA289	138	BA286-BA289	134	BA286-BA289	134
BA290-BA293	137	BA290-BA293	133	BA290-BA293	133
BA294-BA297	136	BA294-BA297	132	BA294-BA297	132
BA298-BA301	135	BA298-BA301	131	BA298-BA301	131
BA302-BA305	134	BA302-BA305	130	BA302-BA305	130
BA306-BA309	133	BA306-BA309	129	BA306-BA309	129
BA310-BA313	132	BA310-BA313	128	BA310-BA313	128
BA314-BA317	131	BA314-BA317	127	BA314-BA317	127
BA318-BA321	130	BA318-BA321	126	BA318-BA321	126
BA322-BA325	129	BA322-BA325	125	BA322-BA325	125
BA326-BA329	128	BA326-BA329	124	BA326-BA329	124
BA330-BA333	127	BA330-BA333	123	BA330-BA333	123
BA334-BA337	126	BA334-BA337	122	BA334-BA337	122
BA338-BA341	125	BA338-BA341	121	BA338-BA341	121
BA342-BA345	124	BA342-BA345	120	BA342-BA345	120
BA346-BA349	123	BA346-BA349	119	BA346-BA349	119
BA350-BA353	122	BA350-BA353	118	BA350-BA353	118
BA354-BA357	121	BA354-BA357	117	BA354-BA357	117
BA358-BA361	120	BA358-BA361	116	BA358-BA361	116
BA362-BA365	119	BA362-BA365	115	BA362-BA365	115
BA366-BA369	118	BA366-BA369	114	BA366-BA369	114
BA370-BA373	117	BA370-BA373	113	BA370-BA373	113
BA374-BA377	116	BA374-BA377	112	BA374-BA377	112
BA378-BA381	115	BA378-BA381	111	BA378-BA381	111
BA382-BA385	114	BA382-BA385	110	BA382-BA385	110
BA386-BA389	113	BA386-BA389	109	BA386-BA389	109
BA390-BA393	112	BA390-BA393	108	BA390-BA393	108
BA394-BA397	111	BA394-BA397	107	BA394-BA397	107
BA398-BA401	110	BA398-BA401	106	BA398-BA401	106
BA402-BA405	109	BA402-BA405	105	BA402-BA405	105
BA406-BA409	108	BA406-BA409	104	BA406-BA409	104
BA410-BA413	107	BA410-BA413	103	BA410-BA413	103
BA414-BA417	106	BA414-BA417	102	BA414-BA417	102
BA418-BA421	105	BA418-BA421	101	BA418-BA421	101
BA422-BA425	104	BA422-BA425	100	BA422-BA425	100
BA426-BA429	103	BA426-BA429	99	BA426-BA429	99
BA430-BA433	102	BA430-BA433	98	BA430-BA433	98
BA434-BA437	101	BA434-BA437	97	BA434-BA437	97
BA438-BA441	100	BA438-BA441	96	BA438-BA441	96
BA442-BA445	99	BA442-BA445	95	BA442-BA445	95
BA446-BA449	98	BA446-BA449	94	BA446-BA449	94
BA450-BA453	97	BA450-BA453	93	BA450-BA453	93
BA454-BA457	96	BA454-BA457	92	BA454-BA457	92
BA458-BA461	95	BA458-BA461	91	BA458-BA461	91
BA462-BA465	94	BA462-BA465	90	BA462-BA465	90
BA466-BA469	93	BA466-BA469	89	BA466-BA469	89
BA470-BA473	92	BA470-BA473	88	BA470-BA473	88
BA474-BA477	91	BA474-BA477	87	BA474-BA477	87
BA478-BA481	90	BA478-BA481	86	BA478-BA481	86
BA482-BA485	89	BA482-BA485	85	BA482-BA485	85
BA486-BA489	88	BA486-BA489	84	BA486-BA489	84
BA490-BA493	87	BA490-BA493	83	BA490-BA493	83
BA494-BA497	86	BA494-BA497	82	BA494-BA497	82
BA498-BA501	85	BA498-BA501	81	BA498-BA501	81
BA502-BA505	84	BA502-BA505	80	BA502-BA505	80
BA506-BA509	83	BA506-BA509	79	BA506-BA509	79
BA510-BA513	82	BA510-BA513	78	BA510-BA513	78
BA514-BA517	81	BA514-BA517	77	BA514-BA517	77
BA518-BA521	80	BA518-BA521	76	BA518-BA521	76
BA522-BA525	79	BA522-BA525	75	BA522-BA525	75
BA526-BA529	78	BA526-BA529	74	BA526-BA529	74
BA530-BA533	77	BA530-BA533	73	BA530-BA533	73
BA534-BA537	76	BA534-BA5			



(INTERNAL PARTS LIST)

BOARD NO. & TITLE: C8570 CACHE (AS1)  
 ASSEMBLY LEVEL & TITLE: 200  
 PARTS LIST REVISION (R): 1  
 ANYTIME REVISION (A): 00  
 ASSEMBLY REVISION (A): 01  
 SCHEMATIC REVISION (S): 01  
 QWR GR MOST RECENT ECD: 329300  
 CREATED: 04/09/84 15:07  
 LAST MODIFIED: 09/13/84 16:10 BY: LAB  
 EDITING REVISION: 8

REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
C7	300-1903-	.01U	CAP CERAMIC DISC +80% -20% 25V 25F		1
C8	300-1904-	.001MF	CAP CERAMIC DISC 10% 500V X5F		1
C27 - C29	300-1910-	.1U	CAP CERAMIC MONO RAD +80% -20% 50V Z5U		46
C31 - C33					
C41 - C46					
C51 - C53					
C58 - C57					
C66 - C71					
C73 - C75					
C77 - C79					
C90 - C95					
C99 - C101					
C103 - C108					
C120 - C123					
C1 - C8	300-1966-	.047U	CAP CERAMIC MONO AXIAL +80 -20% 50V Z5U		113
C9 - C12					
C14 - C21					
C23 - C26					
C35 - C40					
C47 - C49					
C59 - C65					
C81 - C89					
C94 - C98					
C106 - C118					
C124 - C130					
C132 - C173					
C15	300-4022-	15U	CAP TANT AXIAL 10% 20V		13
C22					
C10					
C14					
C80					
C84					
C72					
C76					
C86					
C102					
C119					

REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
C131					
C174					
L107	328-1803-		SKETCH		1
R13 - R22	330-1016-		RES FIXED METAL FILM 1/4W 5% 200PPM		48
R27 - R33					
R37 - R43					
R48 - R55					
R62 - R69					
R70 - R84					
R87					
R34 - R35	330-1040-	47.000	RES FIXED METAL FILM 1/4W 5% 200PPM		12
R44 - R47					
R56 - R61					
R88	330-2034-	330.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R2 - R12	330-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		48
R23 - R26					
R36					
R70 - R77					
R85 - R86					
R89 - R102					
B1	330-0013-	12K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
J1 - J4	350-0040-	40 CONT	CORN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		4
P4 - P6	380-4504-	2 CONT	CONN SHUNT .100 CTR		2
L321	376-0000-	7442	IC 1-QV-10 DECODER		2
L348					
L276	376-0002-	74157	IC QUAD 2-INPUT MULTIPLEXER		6
L299					
L303					
L309					
L311					
L330					
L16	376-0126-	555	IC TIMER 8 PIN DIP		1
L95	376-0176-	74367	IC HEX BUFFER TRI-STATE		1
L93	376-0184-	74581	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		3
L142					
L207					
L337	376-0185-	8798	IC HEX INVERTER 16 PIN DIP		1
L10 - L11	376-0189-	8797	IC HEX BUFFER 16 PIN DIP		24
L24 - L27					
L29					
L31					
L34 - L35					
L37					
L270					
L273					
L276 - L276					
L282					
L290					
L295					
L301					

REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
L313					
L331					
L336					
L338					
L341					
L39	376-0197-	74504	IC HEX INVERTER		7
L117					
L119					
L269					
L292					
L310					
L318	376-0190-	74530	IC 8-INPUT NAND GATE		1
L45	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L18					
L62					
L68					
L138					
L268					
L319	376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		7
L20					
L44					
L164 - L167					
L245					
L316					
L323					
L171	376-0201-	74564	IC 4-2-3-2 INPUT AND/OR-INVERT GATE		4
L220					
L201					
L347	376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		33
L6					
L17					
L40 - L41					
L43					
L74 - L75					
L90					
L92					
L94					
L99 - L100					
L110					
L124 - L125					
L149 - L150					
L170 - L175					
L190 - L199					
L219					
L225					
L244					
L267					
L280					
L294					
L305					

REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
L307 - L308					
L332					
L334					
L346					
L42	376-0205-	74532	IC QUAD 2-INPUT OR GATE		8
L44					
L67					
L242					
L248					
L281					
L293					
L324					
L96	376-0206-	74526	IC DUAL 6-INPUT EXPANDER		2
L208					
L65	376-0215-	74513	IC DUAL 4-INPUT MULTIPLEXER		2
L191					
L217 - L218	376-0217-	74517	IC QUAD 2 TO 1 LINE DATA SEL/MUX		6
L244					
L271 - L272					
L287					
L215	376-0221-	745194	IC 4 BIT SHIFT REGISTER		1
L64	376-0224-	74500	IC QUAD 2-INPUT NAND GATE		16
L80 - L89					
L91					
L113					
L163 - L165					
L168					
L188					
L195 - L196					
L243					
L249					
L296					
L320	376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		3
L170					
L194					
L237					
L141	376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		2
L169					
L69	376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		2
L193					
L139 - L140	376-0246-	745280	IC 9-BIT PARITY GENERATOR/CHECKER		12
L189 - L190					
L213 - L214					
L239 - L240					
L247					
L245					
L283					
L312					
L252 - L253	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		4
L281					

BY	DATE	APPROVED BY	DATE
	OWN	E ENGR	
MATERIAL	MODEL NO	CHE	MPG ENGR
	SEE BOM SPECIFICATIONS		
TITLE	CACHE BD (AS1)		
PINSH	TOL BY AS NOTED EX & DIM FRAC 1/4 ALL DIMS UNLESS OTHERWISE NOTED	210-8570	C 8570
SCALE	SHT 6 OF 7	WANG PART NUMBER	SIZE DRAWING NUMBER REV

UU6

"L1"

"L1"

"L1"

"L1"

"5'8"

"5'8"

8.5"

8.5"

11"

11"

17"

17"

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET 7 OF 7 PAGE 8

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L100					
L71 - L72	376-0250-	74505	IC 4-BIT MAGNITUDE COMPARATOR		5
L110					
L118					
L148					
L221	376-0270-	745175	IC QUAD D-TYPE FLIP-FLOP		2
L344					
L90	376-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		2
L212	376-0280-	745244	IC OCTAL BUFFER/LINE DRIVER W/T2E STATE		2
L285					
L146	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		2
L135					
L118	376-0297-	745240	IC OCTAL BUFFER/LINE DRIVER/LINE RECEIVER		1
L114	376-0298-	745130	IC 3-LINE TO 8-LINE DECODER/MULTIPLIER		5
L220					
L270 - L279					
L315					
L121	376-0301-	745150	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
L222 - L324					
L73	376-0303-	745376	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		9
L277					
L200					
L304					
L328					
L333					
L335 - L340					
L343					
L23	376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		34
L28					
L30					
L32 - L33					
L36					
L49					
L63					
L123					
L140					
L173					
L230					
L250 - L251					
L254 - L260					
L262 - L264					
L284 - L286					
L289					
L300					
L302					
L314					
L317					
L322					
L326					
L328 - L329					

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET OF PAGE 6

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L200					
L122	376-0307-	745393	IC DUAL 4-BIT BINARY COUNTER		2
L147	376-0317-	28452521	IC 0-BIT COMPARATOR		1
L192					
L216	376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLIER		2
L261					
L342	376-0336-	745151	IC 1-OF-8 DATA SEL/MUX		1
L97	376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		1
L128	376-0348-	93540	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		3
L172					
L143 - L144	376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		2
L46					
L80 - L81	376-9002-T		IC SOCKET 16 PIN DIL PC MOUNT LOW PROFILE		1
L76 - L87	376-9014-		IC SOCKET 18 PIN DIL PC MOUNT		94
L101 - L112					
L126 - L127					
L129 - L137					
L181 - L182					
L176 - L187					
L200 - L211					
L226 - L227					
L229 - L237					
02	482-2892-	RAIL	EXTENDER RAIL		1
01	810-8570-	PCB	PCB		1
01 - 03	650-2120-	SCREW	SCREW, #4-40 X 3/8 LG.		3
06 - 07	654-0106-	4 CONT	CONN PC HEADER SINGLE ROW .100 (FOR L70)		2
TP1 - TP6	654-3022-	TERMINAL	CONTACT MALE POINT .050 DIA GOLD LOOSE		6

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET OF PAGE 7

WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
(CAUTION - THE FOLLOWING PARTS/COMPONENTS CONTAINED IN THIS B.O.M. ARE NOT RECOMMENDED FOR NEW DESIGNS)				
350-0440-	64 CONT	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		4
376-0185-	8790	IC HEX INVERTER 16 PIN DIP		1
376-0189-	8797	IC HEX BUFFER 16 PIN DIP		24
376-0197-	74504	IC HEX INVERTER		7
376-0198-	74530	IC 8-INPUT NAND GATE		1
376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
376-0200-	74508	IC QUAD 2-INPUT POSITIVE-AND GATES		7
376-0201-	74564	IC 4-2-3-2 INPUT AND/OR-INVERT GATE		4
376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRO F/F W/PRESET/C		33
376-0205-	74532	IC QUAD 2-INPUT OR GATE		8
376-0217-	745127	IC QUAD 2 TO 1 LINE DATA SEL/MUX		6
376-0221-	745194	IC 4 BIT SHIFT REGISTER		1
376-0220-	74500	IC QUAD 2-INPUT NAND GATE		16
376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		2
376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		2
376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		2
376-0246-	745280	IC 9-BIT PARITY GENERATOR/CHECKER		12
376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		4
376-0270-	745175	IC QUAD D-TYPE FLIP-FLOP		4
376-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		2
376-0298-	745130	IC 1-LINE TO 8-LINE DECODER/MULTIPLIER		5
376-0301-	745150	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
376-0303-	745376	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		9
376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		34
376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLIER		2
376-0336-	745151	IC 1-OF-8 DATA SEL/MUX		1
376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		1
376-0348-	93540	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		3
376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		2
376-9002-T	SKT 16	IC SOCKET 16 PIN DIL PC MOUNT LOW PROFILE		1

\*\*\* END-OF-REPORT \*\*\*

WANG LABORATORIES, INC. RUN DATE: 09/13/84 16:24

\*\*\*\*\* ELECTRICAL PARTS LIST \*\*\*\*\* SHEET OF PAGE 1

(FINAL PARTS LIST)

BOARD NO. & TITLE: C8570 CACHE (AS1) ASSEMBLY LEVEL & TITLE: 210-A PARTS LIST REVISION (R): 1

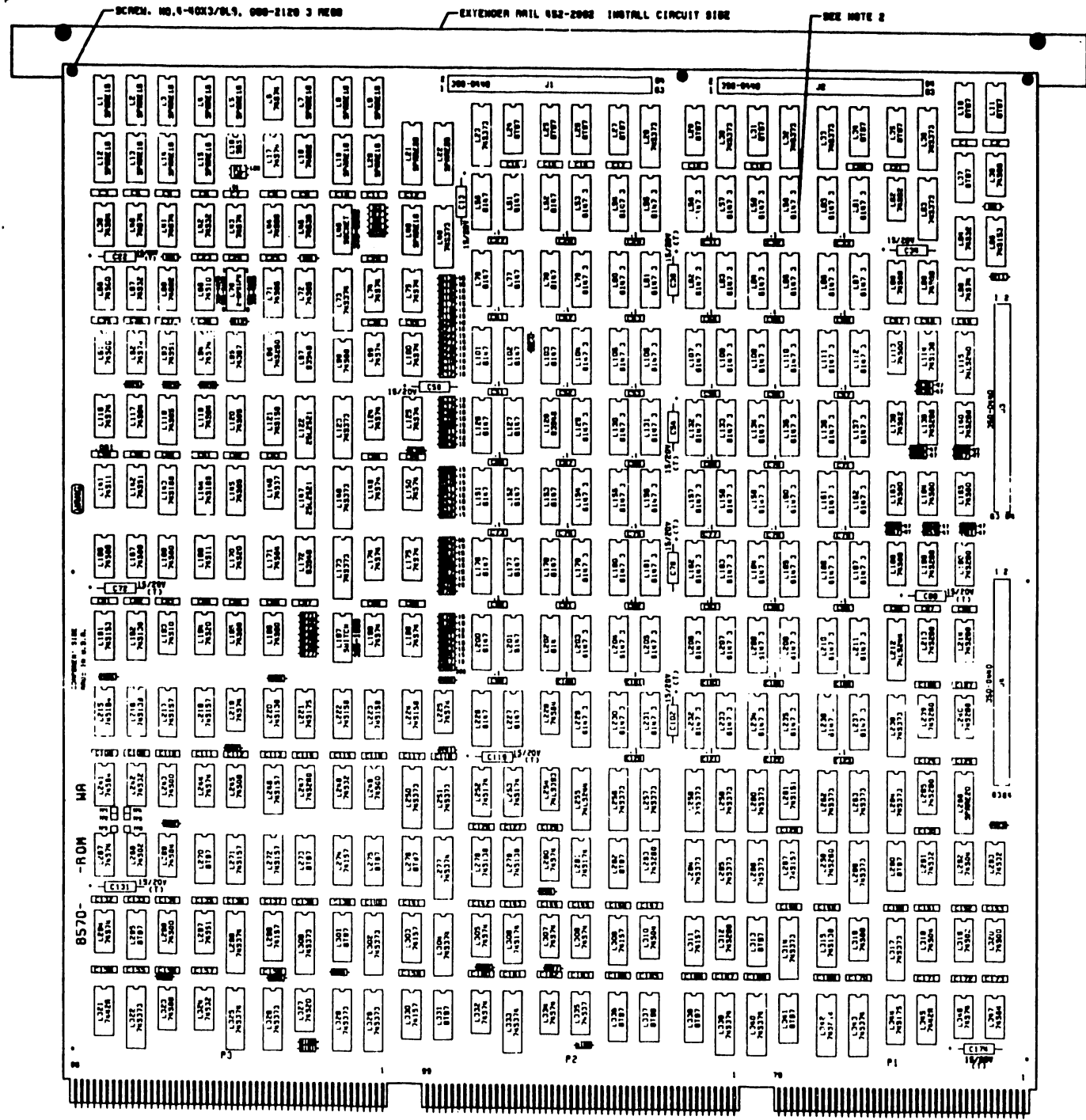
CREATED: 04/09/84 15:07  
LAST MODIFIED: 09/13/84 16:10 BY: LAB  
EDITING REVISION: 0

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
01					
L50 - L52	289-8570-	PCB	IC PK X 1 SRAM 70H 18 PIN		1
L76 - L78	377-0412-	6147			22
L101 - L103					
L126 - L127					
L151 - L153					
L176 - L178					
L200 - L202					
L226 - L227					
L53 - L61	377-0413-	6147-3	IC PK X 1 SRAM 55HS 18 PIN		72
L76 - L87					
L104 - L112					
L129 - L137					
L184 - L182					
L179 - L187					
L203 - L211					
L229 - L237					

\*\*\* END-OF-REPORT \*\*\*

<b>WANG</b> WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL		MODEL NO		TITLE	
		BY ENGR SPECIFICATIONS		CACHE 3D (AS1)	
FINISH		TOL EX AS NOTED 1/16" ± 0.0005 FRACTION ± 0.0005 INCH ± 0.0005 INCH ± 0.0005 INCH		210-8570	C 8570 1
		SCALE 1/8" = 1"		WANG PART NUMBER	REV

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND SHOULD NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

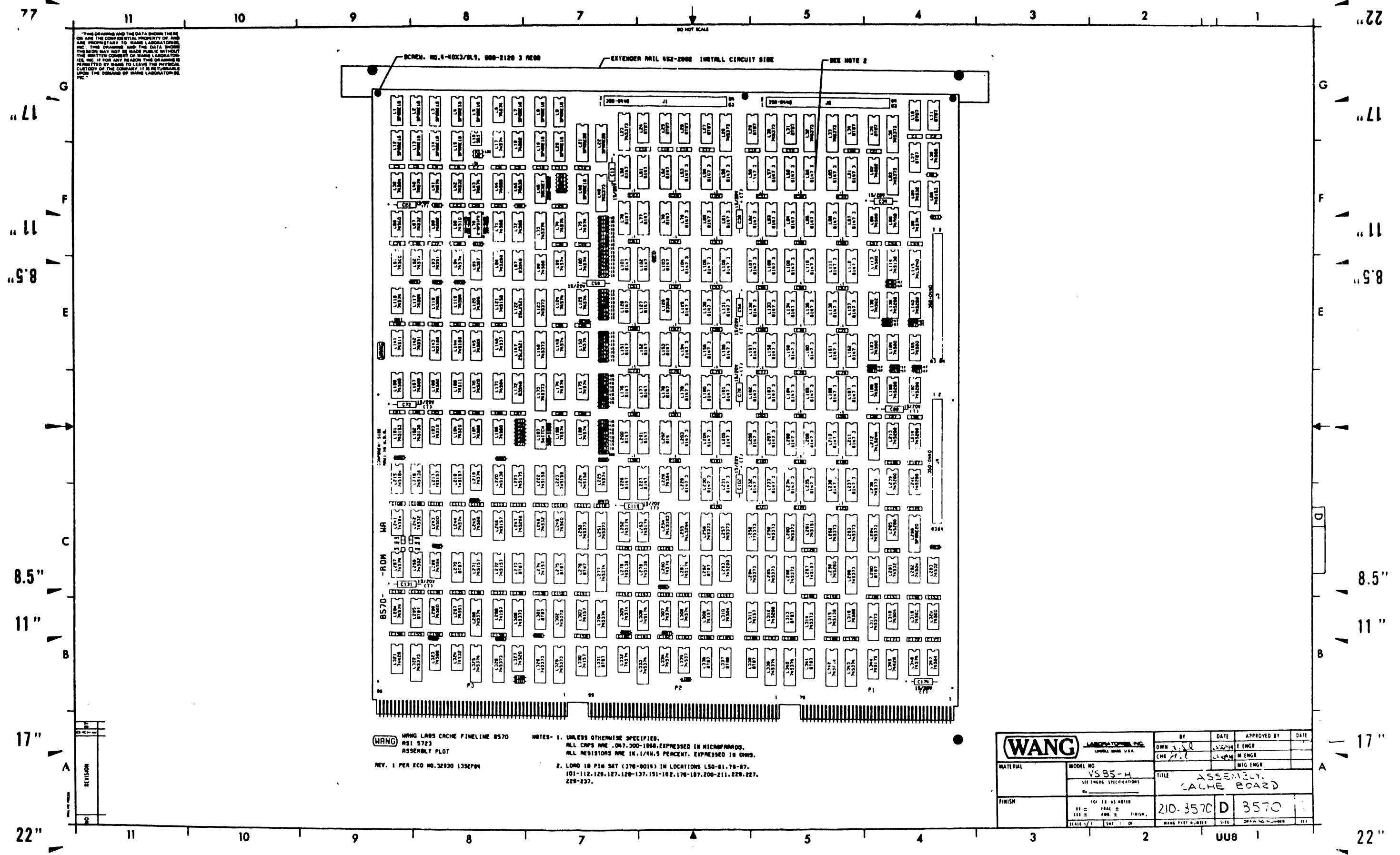


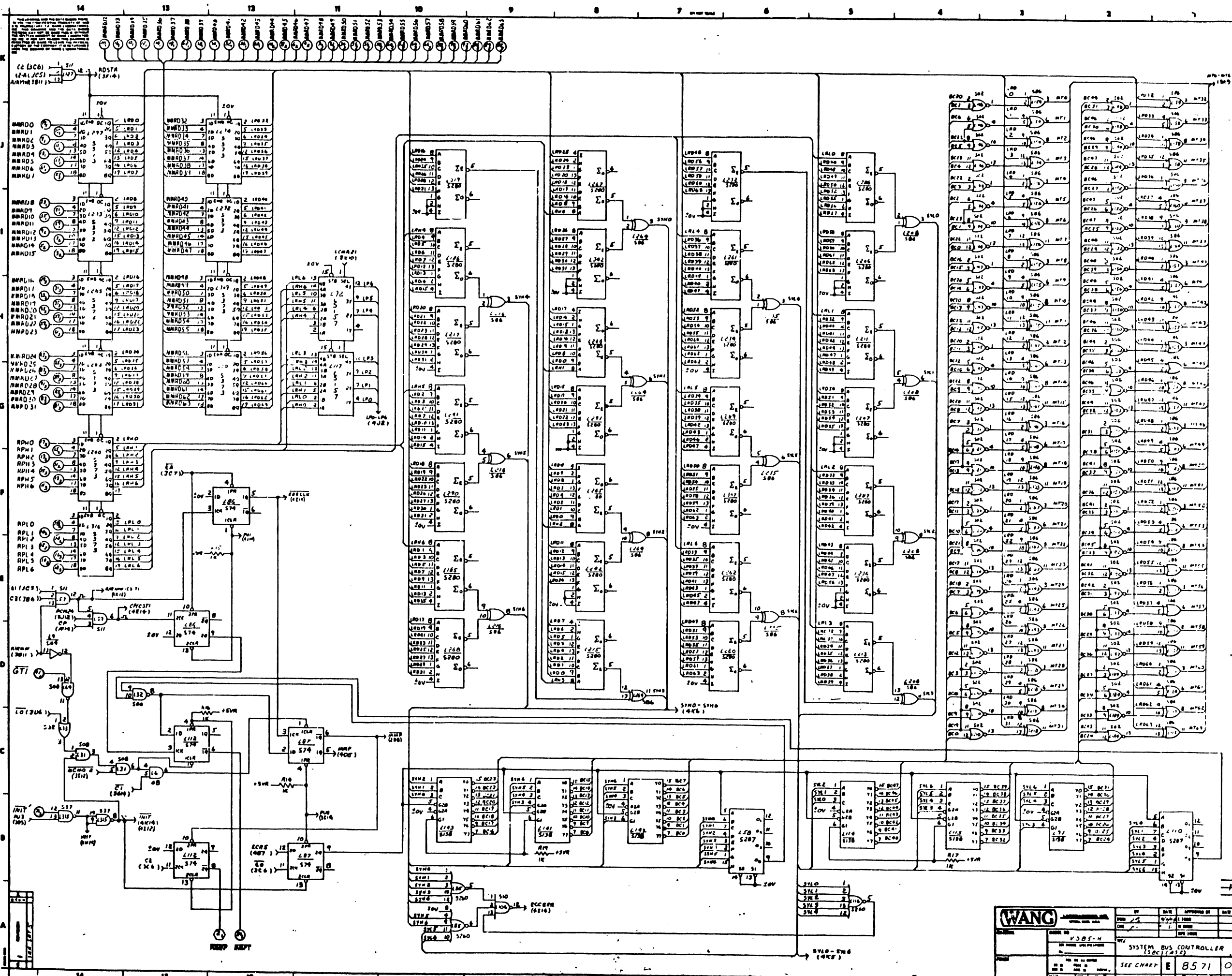
**WANG** WANG LABS CACHE FINELINE 8570  
 AS1 5723  
 ASSEMBLY PLOT  
 REV. 1 PER ECO NO. 32930 133EP04

NOTES- 1. UNLESS OTHERWISE SPECIFIED, ALL CAPS ARE .047, .300-1048, EXPRESSED IN MICROFARADS. ALL RESISTORS ARE 1K, 1/4W, 5 PERCENT, EXPRESSED IN OHMS.  
 2. LOAD 18 PIN SMT (378-9014) IN LOCATIONS L50-81, 78-87, 101-112, 128, 127, 129-137, 151-182, 176-187, 200-211, 228, 227, 229-237.

<b>WANG</b> LABORATORIES, INC. CORPORATE OFFICE CAMBRIDGE, MASS. U.S.A.		BY DWN CHK	DATE 12/20/68 12/20/68	APPROVED BY E ENGR M ENGR	DATE
MATERIAL	MODEL NO. VS85-H SEE ENGR SPECIFICATIONS	TITLE ASSEMBLY CACHE BOARD			
FINISH	101 IS AS NOTED 112 IS FRAC 2 113 IS 496 2 FINISH SCALE 1/16" = 1" OR	210-3570	D	8570	

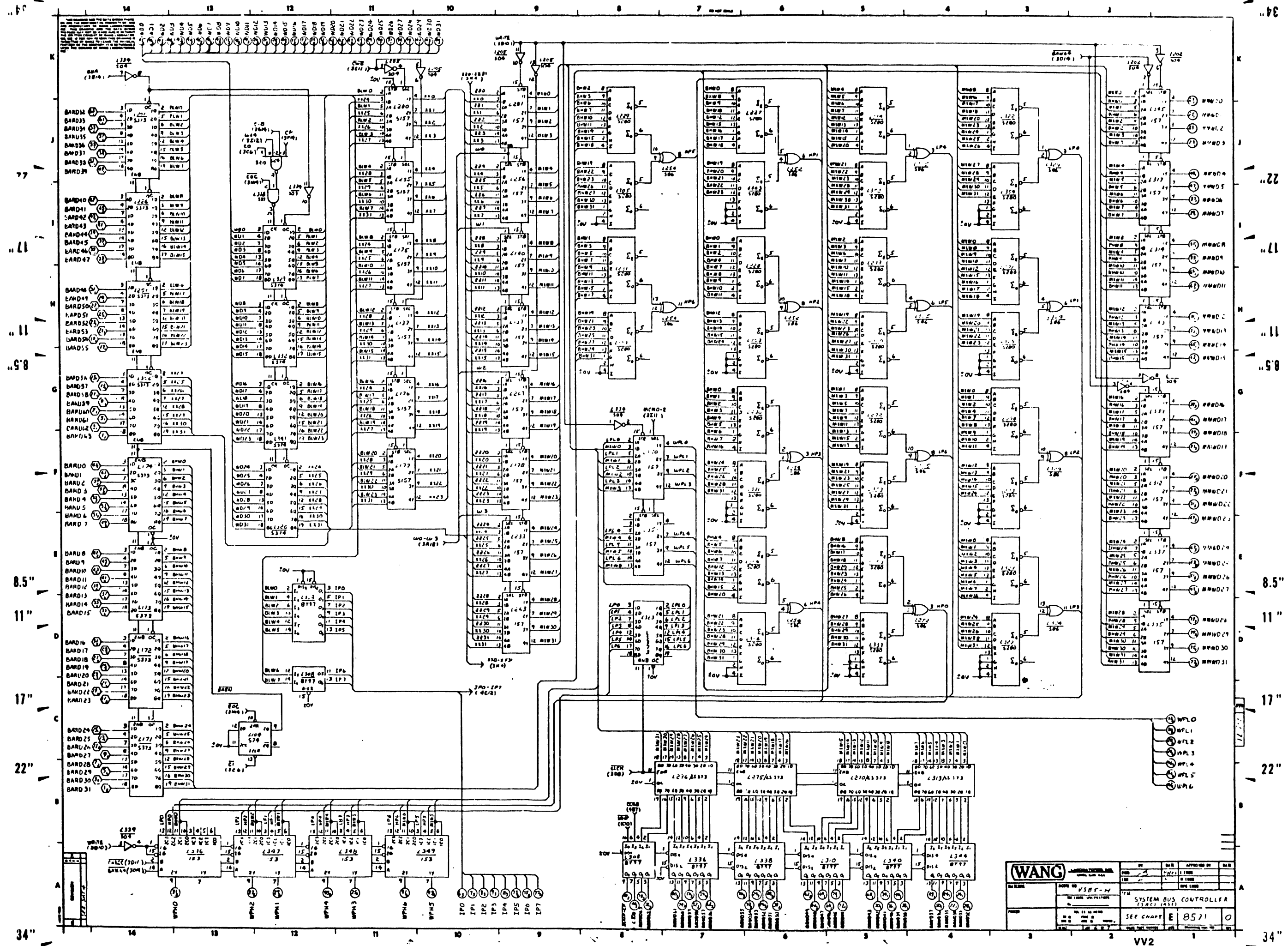
REV	DATE	DESCRIPTION
1		



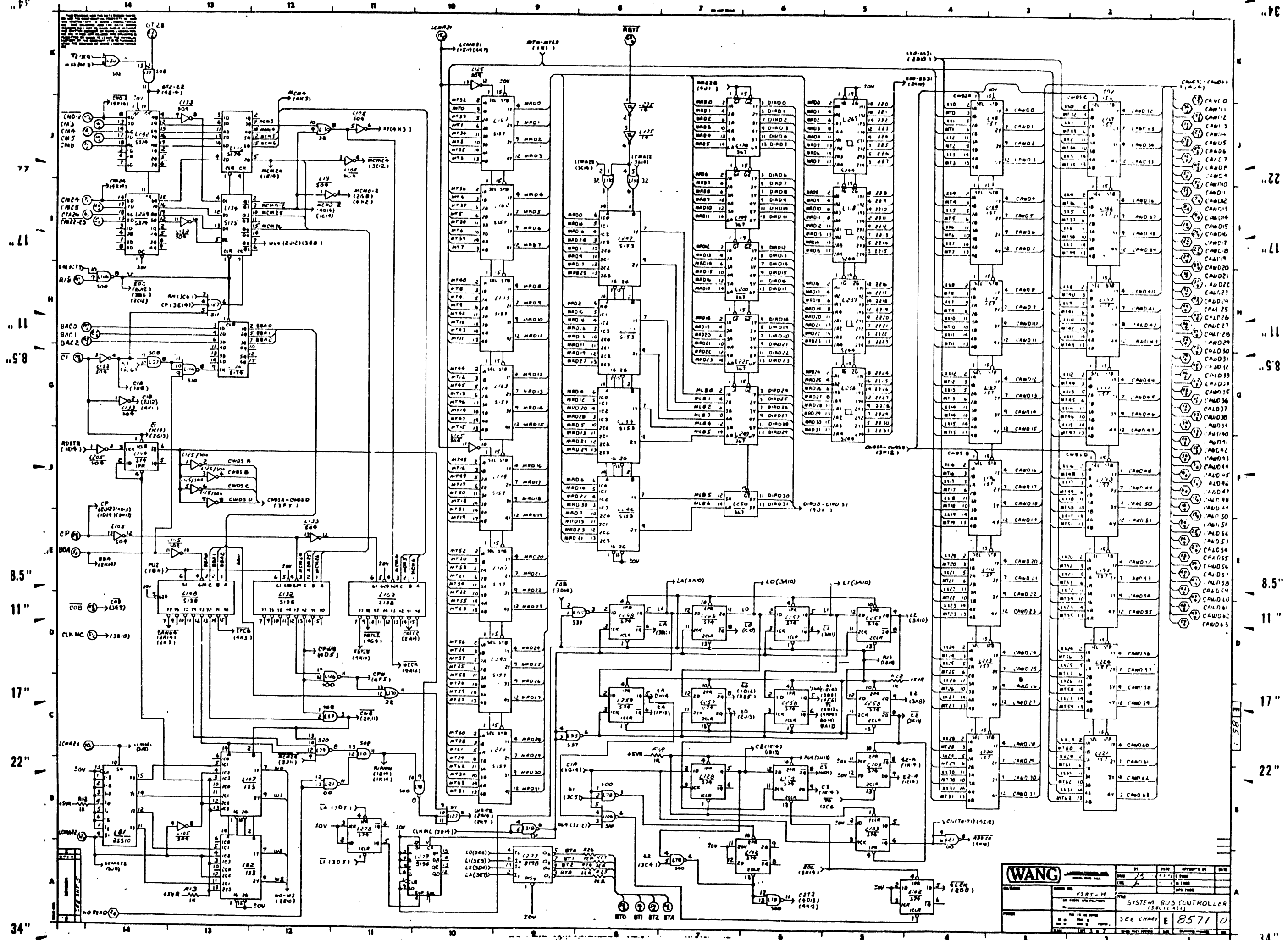


<b>(WANG)</b>		DATE	APPROVED BY	REV
PROJECT	SYSTEM BUS CONTROLLER (SC6) (252)	DATE		
DRAWN BY	VJB/S-H	DATE		
CHECKED BY		DATE		
SEE CHART	E 8571			

VV1

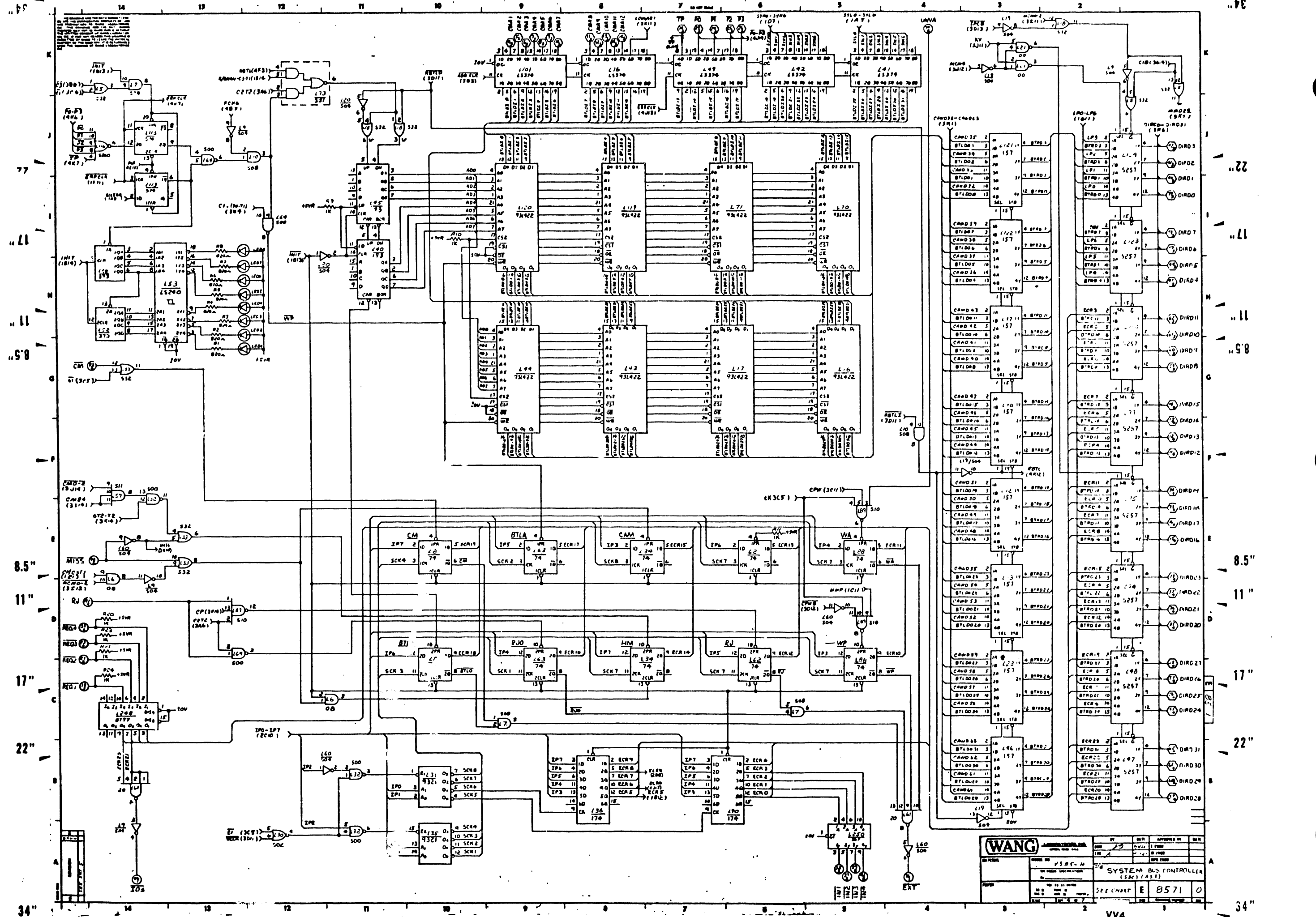


<b>(WANG)</b>		DATE	APPROVED BY	DATE
		DESIGNED BY	DATE	DATE
SYSTEM BUS CONTROLLER		SEE CHART	E	B571
V22				



<b>WANG</b>		DATE	BY	APPROVED BY	REV
SYSTEM BUS CONTROLLER		1/22/71	WV3		1
SEE DRAWING		E 8571 0			

VV3



<b>WANG</b>		DATE	BY	CHKD	APPROVED BY	DATE
		REV				
MODEL NO. <b>VS 01-11</b>		SYSTEM BUS CONTROLLER (SBC) (AS 2)				
PART NO. <b>8571</b>		SEE CHART <b>E 8571</b>				
REV. <b>0</b>						

VV4

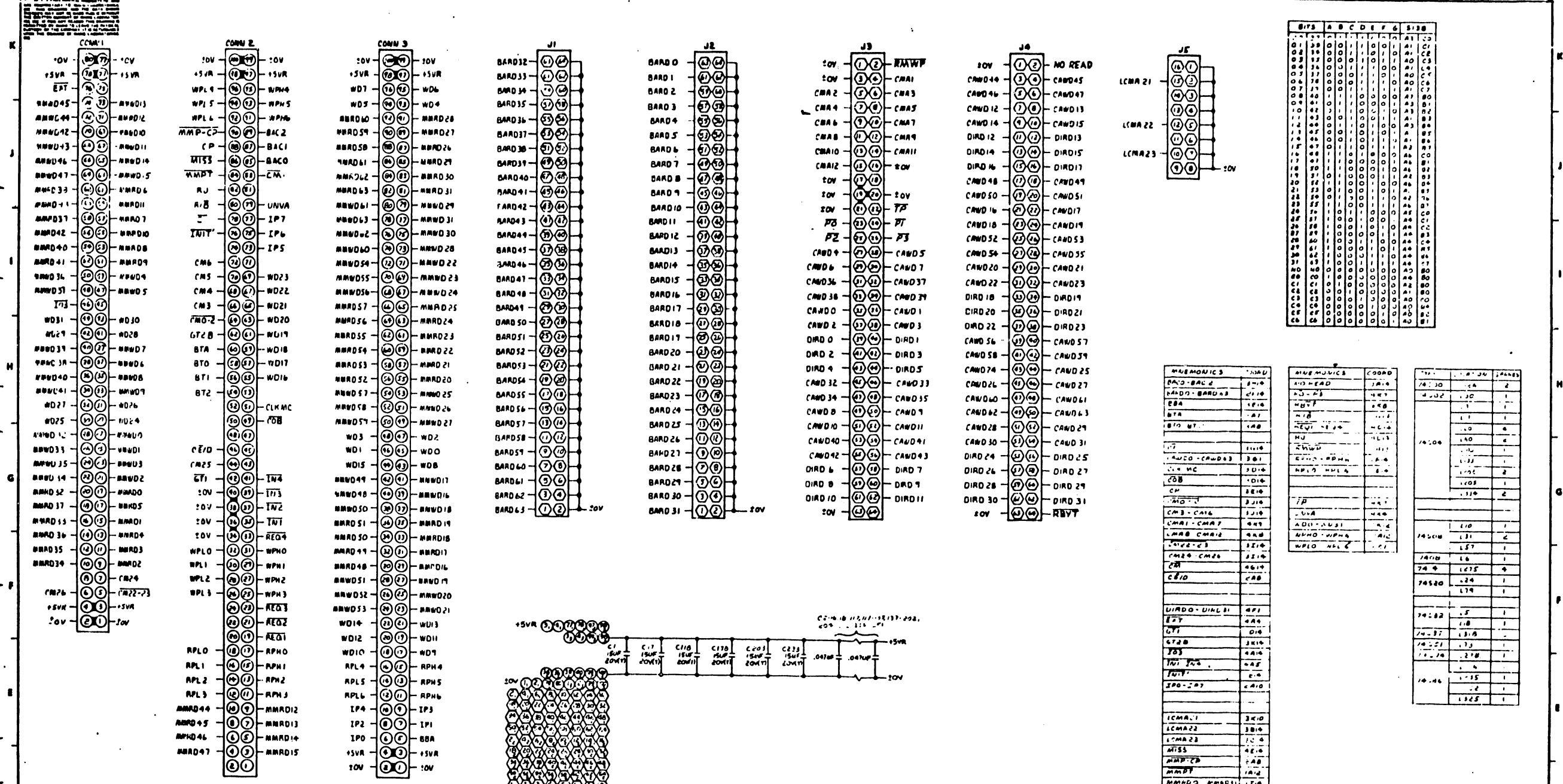


Table with 8 columns labeled A through H and rows of binary data (0s and 1s).

Table with multiple columns containing alphanumeric codes and values, likely a component list or test data. Includes sections for 'ALPHABETICS', 'COORD', and 'TEST'.

Small table with 4 columns and 3 rows containing alphanumeric codes and values.

NOTE: ALL RES ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED

WANG logo and project information block including 'SYSTEM BUS CONTROLLER (SBC) (A32)', 'REV E', and 'E 8571 0'.

Vertical dimension lines on the left side of the page: 8.5", 11", 17", 22", 28", 34".

Vertical dimension lines on the right side of the page: 8.5", 11", 17", 22", 28", 34".



(FINAL BILL OF MATERIALS)

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C2 - C16	300-1964-	.047U	CAP CERAMIC MONO AXIAL +80 -20% 50V Z5U		248
C10 - C117					
C119 - C137					
C139 - C202					
C204 - C232					
C234 - C251					
C1	300-4022-	18U	CAP TANT AXIAL 10% 20V		6
C17					
C110					
C130					
C203					
C233					
R26 - R28	330-1023-	22.000	RES FIXED METAL FILM 1/4W 5% 200PPM		4
R1 - R8	330-2083-	820.000	RES FIXED METAL FILM 1/4W 5% 200PPM		8
R9 - R24	330-2011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		16
J1 - J4	330-0440-	64 CONT	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		4
C81 - C88	370-0075-	LED	LED RED DIFFUSED RED 3MCD TYP		8
L21	376-0002-	7400	IC QUAD 2-INPUT NAND GATE		1
L61	376-0004-	7420	IC DUAL 4-INPUT NAND GATE		1
L8	376-0006-	7474	IC DUAL D-TYPE POSITIVE EDGE-TRIG FLIP-FLOP		1
L34					
L62 - L63					
L80					
L82	376-0048-	74153	IC DUAL 4-INPUT MULTIPLEXER		6
L107					
L346 - L349					
L40	376-0053-	74193	IC UP/DOWN BINARY COUNTER		2
L46					
L6	376-0081-	7400	IC QUAD 2-INPUT AND GATE		1
L33	376-0082-	74157	IC QUAD 2-INPUT MULTIPLEXER		62
L46					
L72 - L73					
L97 - L98					
L121 - L122					
L139 - L140					
L164 - L166					
L168 - L169					
L170					

REF. DES. WANG PART NO. VALUE/TYP DESCRIPTION DRAWING NO. QTY.


L190 - L192					
L198 - L199					
L209					
L220 - L221					
L223 - L224					
L233					
L266					
L269					
L281					
L312					
L314					
L317					
L338					
L337					
L339					
L343					
L345					
L350 - L351					
L130	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		1
L30	376-0096-	9321	IC DUAL 1 OF 4 DECODER		1
L36	376-0098-	74174	IC HEX D FLIP-FLOP		2
L90					
L47 - L48	376-0131-	745287	IC QUAD DATA SELECT OR/MULTIPLEXERS		8
L74 - L75					
L99 - L100					
L128 - L129					
L170	376-0139-	7414	IC HEX SCHMIDT TRIGGER INVERTER		1
L170	376-0176-	74367	IC HEX BUFFER TRI-STATE		6
L199 - L200					
L228					
L249 - L250					
L93	376-0184-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		1
L277	376-0185-	8198	IC HEX INVERTER 16 PIN DIP		1
L240	376-0189-	8197	IC HEX BUFFER 16 PIN DIP		8
L300					
L310					
L320					
L336					
L338					
L340					
L344					
L9	376-0197-	74504	IC HEX INVERTER		16
L19 - L20					
L60					
L105					
L125					
L133					
L202					
L205					
L334					

REF. DES. WANG PART NO. VALUE/TYP DESCRIPTION DRAWING NO. QTY.

L30	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		17
L144 - L153					
L179 - L182					
L104					
L210					
L7	376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		4
L10					
L31					
L87					
L86 - L87	376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		13
L107 - L108					
L112 - L113					
L120					
L257 - L259					
L270					
L280					
L6	376-0205-	74532	IC QUAD 2-INPUT OR GATE		3
L10					
L33					
L85	376-0206-	745260	IC DUAL 8-INPUT EXPANDER		2
L116					
L222	376-0216-	745153	IC DUAL 4-INPUT MULTIPLEXER		6
L244					
L246 - L247	376-0216-	745157	IC QUAD 2-INPUT MULTIPLEXER		2
L92					
L117	376-0217-	745157	IC QUAD 2 TO 1 LINE DATA SEL/MUX		14
L162 - L163					
L167					
L175 - L177					
L185					
L193 - L194					
L210					
L248					
L255					
L280					
L279	376-0221-	745194	IC 4 BIT SHIFT REGISTER		1
L30	376-0220-	74500	IC QUAD 2-INPUT NAND GATE		4
L64					
L78					
L126					
L24	376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		2
L79					
L89	376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		2
L127					
L80	376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		2
L106					
L188 - L186	376-0246-	745280	IC 9-BIT PARITY GENERATOR/CHECKER		86
L203 - L204					
L206 - L207					

REF. DES. WANG PART NO. VALUE/TYP DESCRIPTION DRAWING NO. QTY.

L211					
L213					
L215					
L217					
L227 - L232					
L234					
L236					
L241 - L242					
L253					
L260 - L262					
L265 - L268					
L271 - L274					
L286 - L287					
L289 - L291					
L298 - L300					
L303 - L307					
L319					
L321 - L322					
L326 - L327					
L331					
L333					
L342					
L352 - L354					
L136	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		2
L138					
L134	376-0270-	745175	IC QUAD D-TYPE FLIP-FLOP		1
L154 - L161	376-0271-	74586	IC QUAD 2 IN EXCLUSIVE OR GATE		24
L183					
L187 - L188					
L200					
L212					
L214					
L216					
L218					
L235					
L237					
L243					
L252					
L254					
L264					
L324 - L325					
L41 - L42	376-0284-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE		8
L49					
L76					
L101					
L318	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		2
L318	376-0297-	74LS240	IC OCTAL BUFFER/LINE DRIVER/LINE RECEIVER		1
L91	376-0298-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		9
L108 - L109					

 <b>WANG LABORATORIES, INC.</b> LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		UJWN		E ENGR	
		CHK		M ENGR	
				MFG ENGR	
MATERIAL	MODEL NO.	TITLE			
	SEE ENGR SPECIFICATIONS	SYSTEM BUS CONTROLLER			
		(SBC) (AS1)			
FINISH	TOL IN AS NOTED	SEE CHART	D	8571	0
	.XXX ± .010 FRAC ± 1/4				
	.XXX ± .005 ANG ± 1'30" FINISH				
	SCALE	SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

VV6

**M**

BOARD NO. & TITLE: C8571 SYSTEM BUS CTRL (SBC)(AS1) SCHEMATIC REVISION (S): 00 SHEET 7 OF 7 PAGE 8

REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
L110 - L115					
L116 - L143	376-0308-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI STATE		6
L171 - L174	376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		10
L295 - L296	376-0310-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		6
L82	376-0330-	74393	IC DUAL 4-BIT BINARY COUNTER		1
L110	376-0330-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		4
L81	376-0330-	25510	IC 4-BIT SHIFTER TRI-STATE O. PUTS		1
J6	376-9002-	SKT 16	IC SOCKET 16 PIN DIL PC MOUNT		1
02 - 09	376-9010-	SKT 22	IC SOCKET 22 PIN DIL PC MOUNT		8
01	810-8571-		PCB		1

**WANG LABORATORIES, INC.**

>>>> ELECTRICAL PARTS LIST <<<<< SHEET OF PAGE 1

(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8571 SYSTEM BUS CTRL (SBC)(AS1) CREATED: 04/10/84 08:25  
 ASSEMBLY: 210-A LAST MODIFIED: 04/19/84 12:18 BY: LAB  
 ARTWORK REVISION (R): 00 EDITING REVISION: 2  
 ASSEMBLY REVISION (A): 00  
 SCHEMATIC REVISION (S): 00  
 DWR OR MOST RECENT ECO: 82351

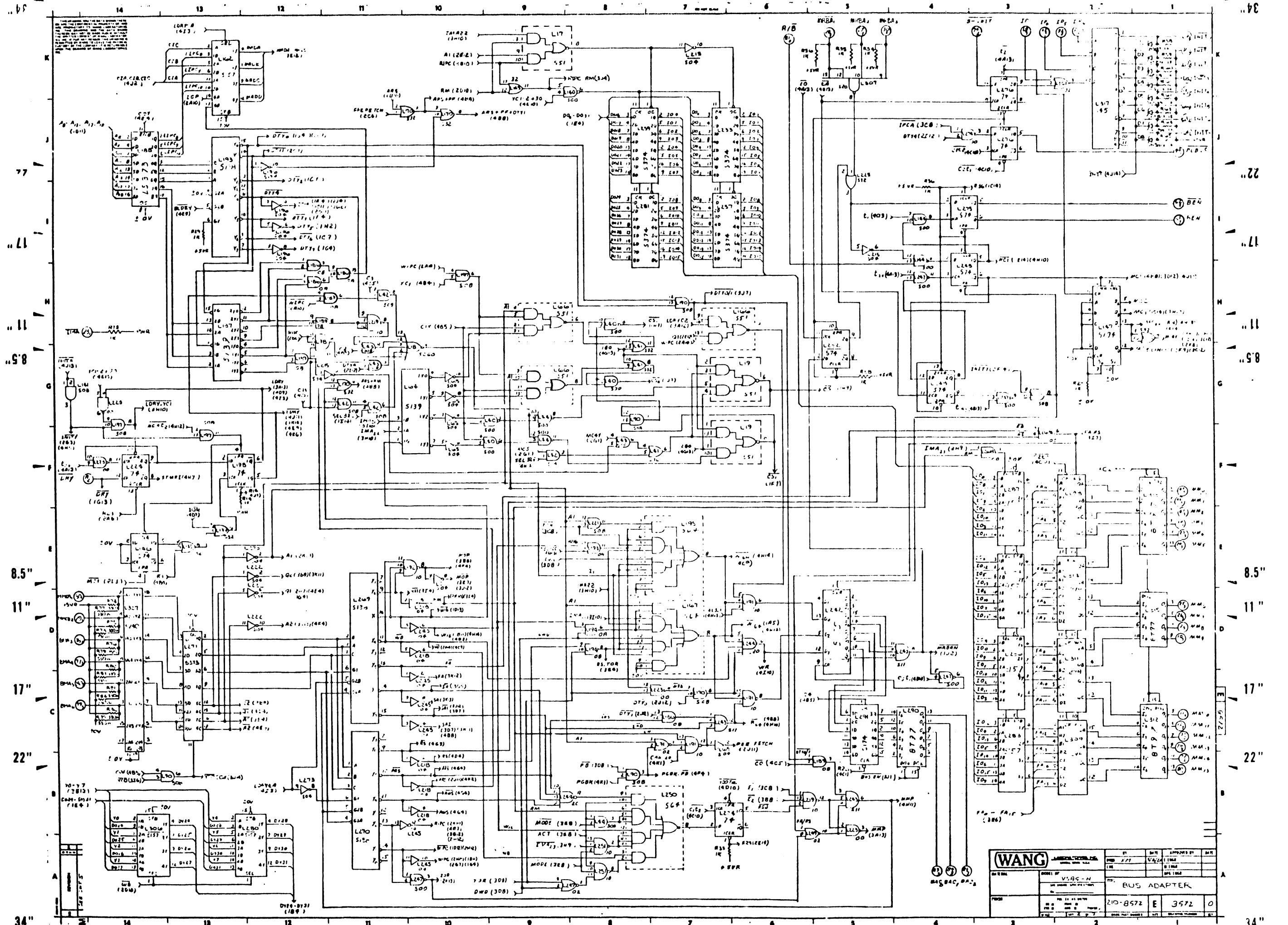
REF. DES.	WANG PART NO.	VALUE/TYPER	DESCRIPTION	DRAWING NO.	QTY.
01	209-8571-		PCA		1
L16 - L17	377-0304-	93L422	IC 256 X 4 BIPOLAR RAM 60NS L PWR 22 PIN		8
L88	377-3063-	025120	64-DTA PTR/CHR VFU /PROG. 74LS207		1

\*\*\* END-OF-REPORT \*\*\*

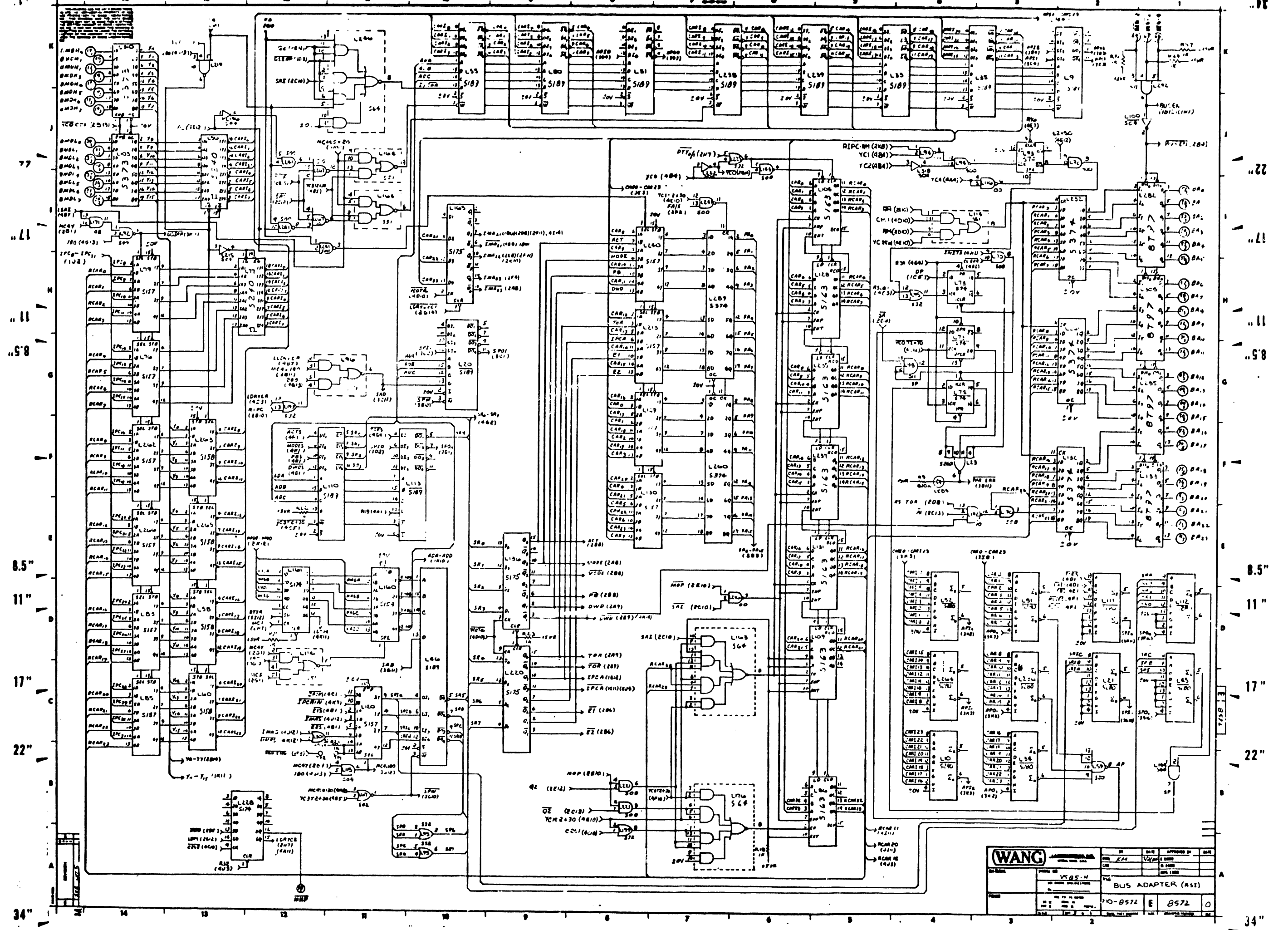
<b>WANG</b>	WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
			DWN		E ENGR	
			CHK		M ENGR	
					MFG ENGR	
MATERIAL	MODEL NO.	TITLE				
SEE ENGR SPECIFICATIONS		SYSTEM BUS CONTROLLER				
		(SBC) (AS1)				
FINISH	TOL. EX. AS NOTED RN ± 0.10 FRAC ± 1/64 RXX ± 0.05 ANG ± 1° 30' FINISH ✓	SEE CHART	D	8571	0	
SCALE	SHT 7 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV	

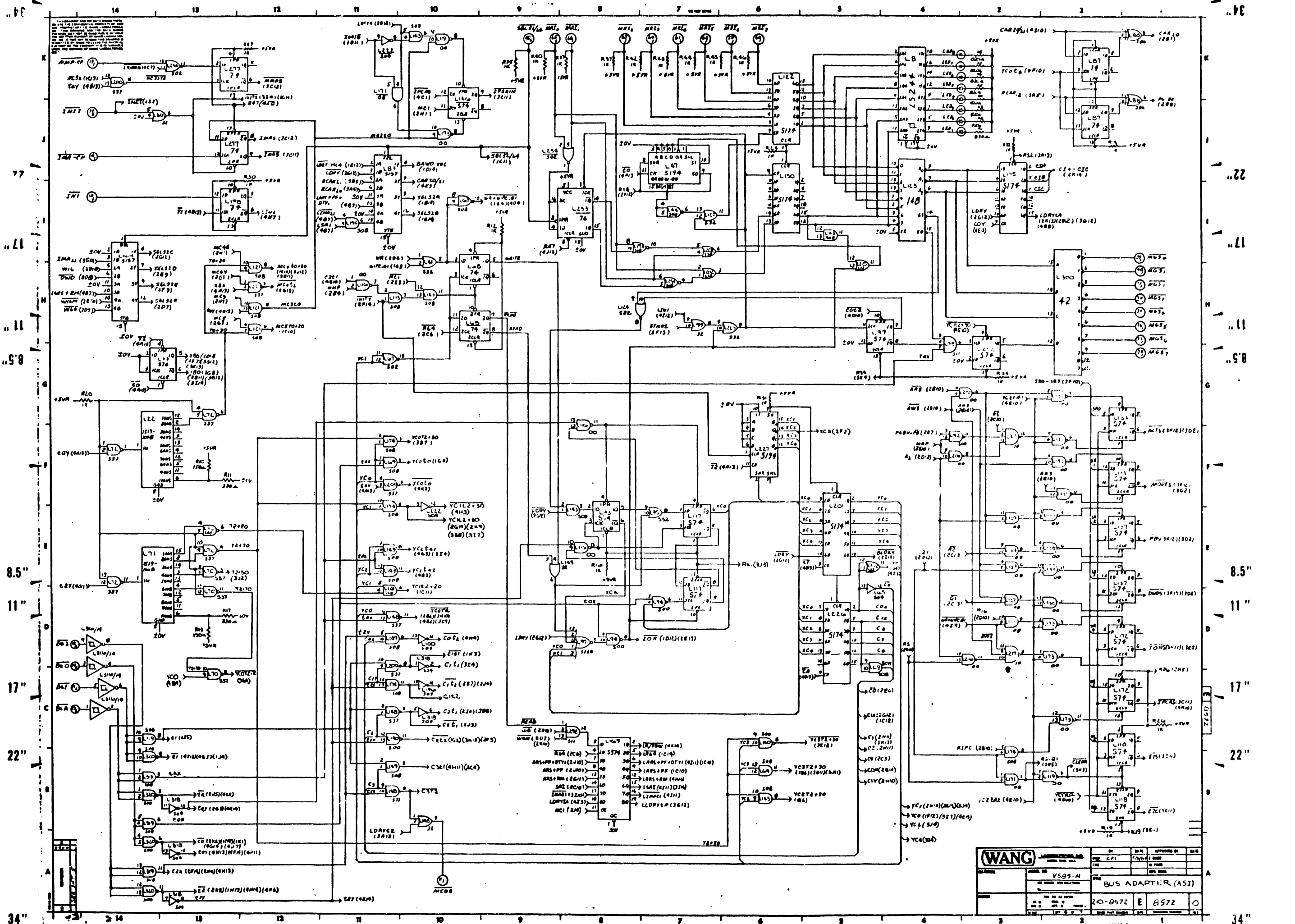






<b>WANG</b>		DATE	APPROVED BY
MODEL	V500-N	DATE	
REV		DATE	
BUS ADAPTER			
NO.	210-8572	E	3572
REV			

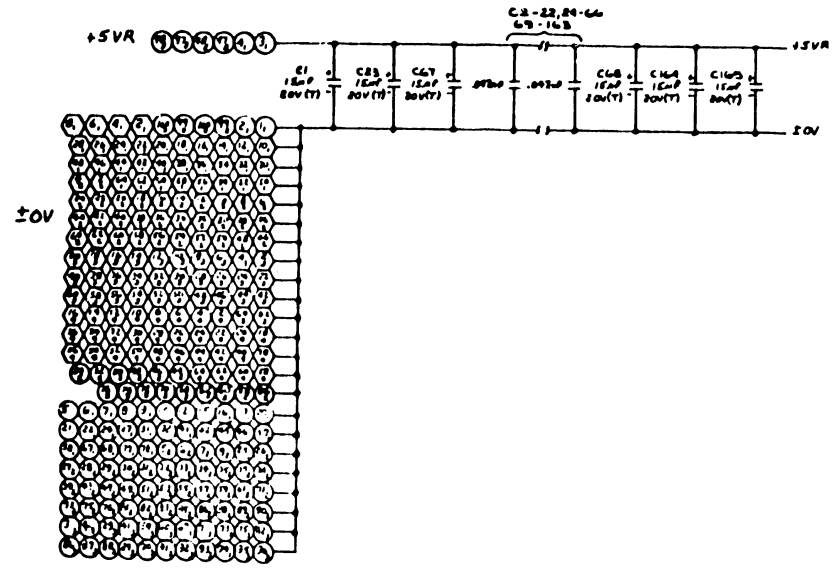
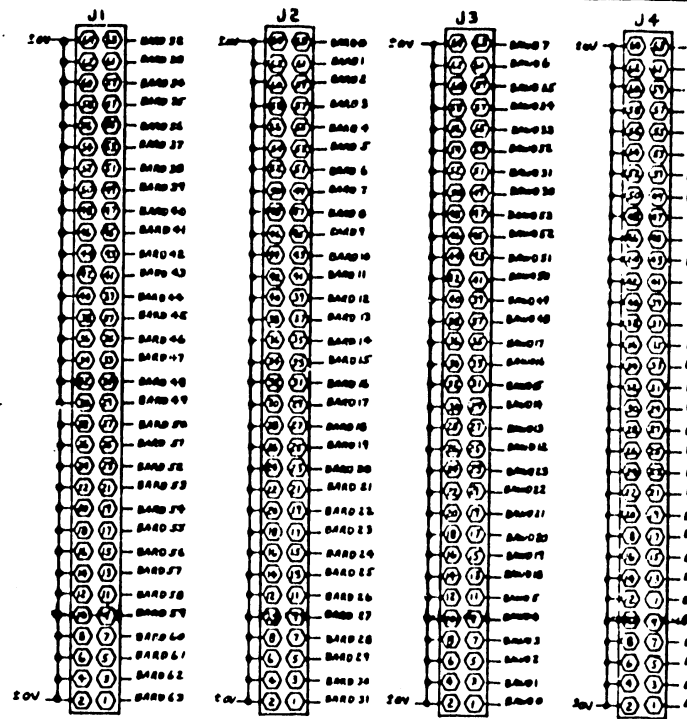
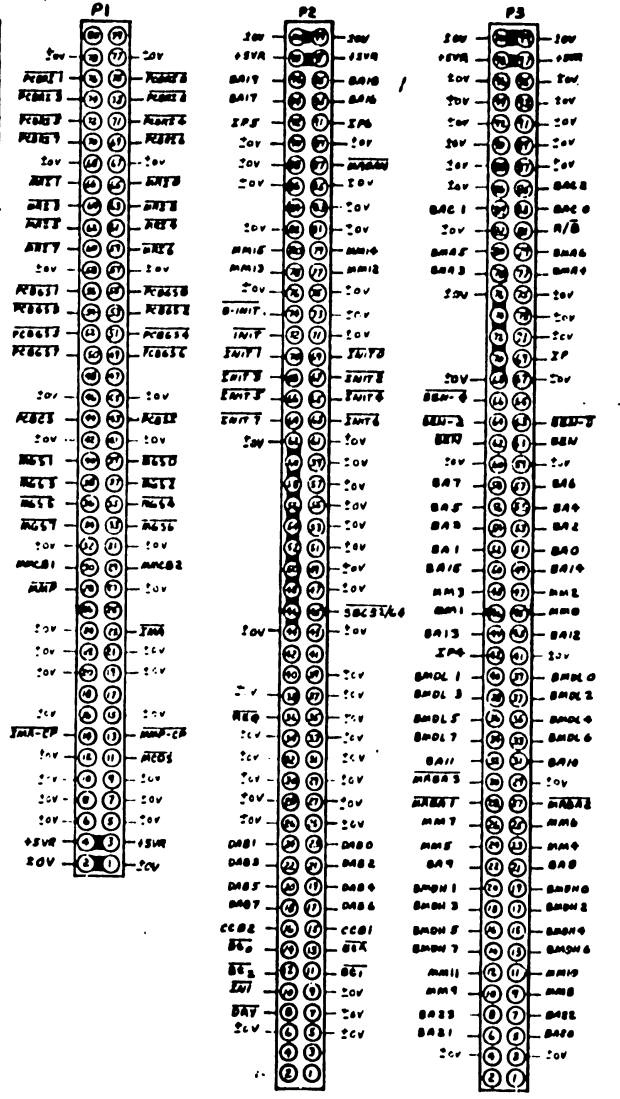




<b>WANG</b>		DATE	APPROVED BY	REV
PART NO. V595-N		REV. EPT	1/25/61	1
TITLE BUS ADAPTER (AS1)		REV.		
DRAWN BY		REV.		
20-8572		E	8572	0
WW4				

WANG  
 MODEL 720  
 BUS ADAPTER (ASE)  
 210-8572

WANG MODEL 720	WANG MODEL 720
BA00 - BA02	BA00
BA03 - BA05	BA03
BA06 - BA08	BA06
BA09 - BA11	BA09
BA12 - BA14	BA12
BA15 - BA17	BA15
BA18 - BA20	BA18
BA21 - BA23	BA21
BA24 - BA26	BA24
BA27 - BA29	BA27
BA30 - BA32	BA30
BA33 - BA35	BA33
BA36 - BA38	BA36
BA39 - BA41	BA39
BA42 - BA44	BA42
BA45 - BA47	BA45
BA48 - BA50	BA48
BA51 - BA53	BA51
BA54 - BA56	BA54
BA57 - BA59	BA57
BA60 - BA62	BA60
BA63 - BA65	BA63
BA66 - BA68	BA66
BA69 - BA71	BA69
BA72 - BA74	BA72
BA75 - BA77	BA75
BA78 - BA80	BA78
BA81 - BA83	BA81
BA84 - BA86	BA84
BA87 - BA89	BA87
BA90 - BA92	BA90
BA93 - BA95	BA93
BA96 - BA98	BA96
BA99 - BA01	BA99
BA02 - BA04	BA02
BA05 - BA07	BA05
BA08 - BA10	BA08
BA11 - BA13	BA11
BA14 - BA16	BA14
BA17 - BA19	BA17
BA20 - BA22	BA20
BA23 - BA25	BA23
BA26 - BA28	BA26
BA29 - BA31	BA29
BA32 - BA34	BA32
BA35 - BA37	BA35
BA38 - BA40	BA38
BA41 - BA43	BA41
BA44 - BA46	BA44
BA47 - BA49	BA47
BA50 - BA52	BA50
BA53 - BA55	BA53
BA56 - BA58	BA56
BA59 - BA61	BA59
BA62 - BA64	BA62
BA65 - BA67	BA65
BA68 - BA70	BA68
BA71 - BA73	BA71
BA74 - BA76	BA74
BA77 - BA79	BA77
BA80 - BA82	BA80
BA83 - BA85	BA83
BA86 - BA88	BA86
BA89 - BA91	BA89
BA92 - BA94	BA92
BA95 - BA97	BA95
BA98 - BA00	BA98



0 REV

<b>(WANG)</b>		DATE	REV	PROJ. NO.	DESIGNER
VCS-N		11/11/66	1	210-8572	WWS
BUS ADAPTER (ASE)					
210-8572		E	B572	0	

WWS



(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C6572 BUS ADAPTER (AS1) CREATED: 05/09/84 09:19  
 ASSEMBLY: 210 LAST MODIFIED: 05/16/84 08:18 BY: LAM  
 ARTWORK REVISION (R): 00 EDITING REVISION: 1  
 SCHEMATIC REVISION (S): 00  
 DRAW OR MOST RECENT ECO: E2424

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C2 - C22	300-1966-	.047U	CAP CERAMIC MONO AXIAL +50 -20% 50V 25U		180
C24 - C64					
C69 - C163					
C1	300-4022-	18U	CAP TANT AXIAL 10% 20V		6
C23					
C67 - C68					
C164 - C165					
R10	330-2016-	150.000	RES FIXED METAL FILM 1/4W 5% 200PPM		3
R13					
R20					
R52	330-2019-	150.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R11	330-2034-	330.000	RES FIXED METAL FILM 1/4W 5% 200PPM		18
R17					
R27					
R74 - R85					
R1 - R9	330-2003-	820.000	RES FIXED METAL FILM 1/4W 5% 200PPM		9
R12	330-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		57
R14 - R16					
R18 - R19					
R21 - R26					
R28 - R51					
R53 - R73					
L801 - L809	370-0075-	LED	LED RED DIFFUSED RED 3MCD TYP		9
L63	376-0082-	7400	IC QUAD 2-INPUT NAND GATE		12
L116					
L119					
L138					
L139					
L173					
L216					
L223					
L260					
L274					
L296					
L322					
L191 - L192	376-0003-	7410	IC TRIP 3-INPUT NAND GATE		8
L317					
L219					

BOARD NO. & TITLE: C6572 BUS ADAPTER (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 3

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L304					
L300					
L312 - L313					
L315					
L65	376-0197-	74504	IC HEX INVERTER		7
L100					
L196					
L215					
L222					
L273					
L318					
L67	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		2
L254					
L42 - L43	376-0200-	74500	IC QUAD 2 INPUT POSITIVE AND GATES		14
L69					
L90					
L118					
L121					
L141					
L143					
L140					
L174					
L190					
L197					
L221					
L319					
L142	376-0201-	74564	IC 4-2-2-2 INPUT AND/OR-INVERT GATE		7
L163					
L167					
L176					
L198					
L246					
L250					
L75 - L74	376-0202-	74574	IC DUAL 8-TYPE POS EDGE TRIGRD F/F W/PRESET/C		18
L92					
L99					
L117 - L118					
L134					
L137					
L146					
L172					
L240					
L252					
L275					
L295	376-0204-	74LS207A	IC QUAD 2-LINE TO 1-LINE DATA SEL/MUX		2
L297					
L41	376-0205-	74532	IC QUAD 2-INPUT OR GATE		7
L86					
L126					
L170					

BOARD NO. & TITLE: C6572 BUS ADAPTER (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L281					
L244	376-0004-	7420	IC DUAL 4-INPUT NAND GATE		1
L68	376-0006-	7474	IC DUAL 8-TYPE POSITIVE EDGE-TRIG FLIP-FLOP		4
L190					
L274					
L299					
L253	376-0007-	7474	IC DUAL 3-E FLIP-FLOP W/PRESET AND CLEAR		1
L87	376-0008-	7442	IC 1-OF-10 DECODE		8
L276 - L277					
L300					
L310					
L210	376-0010-	7404	IC HEX INVERTER		2
L245					
L91	376-0016-	7402	IC QUAD 2-INPUT NOR GATE		2
L240					
L290	376-0021-	7430	IC 8-INPUT NAND GATE		1
L317	376-0065-	74145	IC 1-OF-10 DECODER/DRIVER		1
L130	376-0081-	7400	IC QUAD 2-INPUT AND GATE		5
L171					
L106					
L100					
L194					
L145	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		2
L301					
L270	376-0098-	74174	IC HEX 0 FLIP-FLOP		1
L280	376-0130-	74290	IC QUAD 2-INPUT MULTIPLEXER W/STORAGE		4
L500					
L311					
L314					
L315	376-0139-	7414	IC HEX SCHMITT TRIGGER INVERTER		1
L123	376-0171-	74140	IC 8-LINE-TO-3-LINE OCTAL PRIORITY ENCODER		1
L127	376-0184-	74511	IC DUAL 2 WIDE 2-INPUT AND/OR-INVERT GATES		7
L19					
L64					
L96					
L114					
L164					
L166					
L125	376-0189-	8797	IC HEX BUFFER 16 PIN DIP		20
L133					
L151					
L153					
L177 - L178					
L203					
L229 - L230					
L255 - L256					
L270					
L202					
L285					
L290					

BOARD NO. & TITLE: C6572 BUS ADAPTER (AS1) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 4

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L199					
L202					
L228					
L10	376-0206-	74520	IC DUAL 8-INPUT EXPANDER		3
L23					
L97					
L76	376-0217-	74517	IC QUAD 2 TO 1 LINE DATA SEL/MUX		20
L70					
L83					
L85					
L89					
L120					
L120 - L130					
L162					
L160					
L213					
L240					
L262					
L266					
L280					
L283 - L284					
L284 - L287					
L306					
L47	376-0221-	745194	IC 4 BIT SHIFT REGISTER		3
L147					
L227					
L40	376-0228-	74500	IC QUAD 2-INPUT NAND GATE		9
L44					
L92					
L94					
L140					
L144					
L241					
L247					
L320					
L39	376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		2
L307					
L66	376-0235-	745163	IC SYNCHRONOUS 4-BIT BINARY COUNTER		7
L104					
L109					
L120					
L131					
L238					
L237					
L90	376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		3
L243					
L292					
L267	376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		1
L10	376-0244-	745200	IC 9-BIT PARITY GENERATOR/CHECKER		10
L21					

<b>WANG</b>	WANG LABORATORIES, INC. LOWELL, MA U.S.A.	BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL	MODEL NO.	TITLE			
	SEE ENGRG SPECIFICATIONS No. _____	BUS ADAPTER			
FINISH	TOL EX AS NOTED DIA ± 0.10 FRAC ± 1/64 HOLE ± 0.05 ANG ± 1° 30' FINISH ✓	210-8572	C	8572	0
	SCALE: 1/8" = 1"	SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

"L1"

"L1"

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L10					
L30					
L40					
L50					
L60					
L80					
L100					
L111 - L112					
L150 - L160					
L180					
L210					
L230					
L240					
L122	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP	8	
L190					
L161					
L170					
L201					
L220					
L291					
L136	376-0270-	745176	IC QUAD D-TYPE FLIP-FLOP	6	
L165					
L220					
L242					
L21					
L33					
L68	376-0271-	74506	IC QUAD 3 IN EXCLUSIVE OR GATE	1	
L272	376-0204-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE	1	
L8	376-0268-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE	4	
L82					
L94					
L214					
L70					
L72	376-0206-	74537	IC QUAD 3-INPUT NAND BUFFER	6	
L140					
L200					
L193	376-0298-	745130	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER	3	
L209 - L270	376-0301-	745180	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT	13	
L32					
L57 - L58					
L60					
L107 - L108					
L150 - L160					
L183					
L211 - L212					
L265					
L132	376-0305-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE	10	

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L182					
L184					
L199					
L170					
L204					
L206					
L231 - L233					
L257 - L261					
L281					
L299					
L300					
L11 - L16	376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS	18	
L36 - L39					
L61 - L62					
L108					
L271					
L310					
L184	376-0310-	74LS373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS	3	
L188					
L234					
L64	376-0333-	745130	IC 2 TO 4-LINE DECODER/MULTIPLEXER	2	
L107					
L86	376-0334-	745240	IC OCTAL BUFFER/LINE DRIVER	3	
L77					
L227					
L6 - L7	376-0340-	745109	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS	32	
L9					
L20					
L27 - L29					
L31					
L33					
L38					
L46					
L83					
L86					
L88					
L101 - L102					
L110					
L113					
L126 - L127					
L157 - L158					
L181 - L182					
L205					
L207 - L209					
L238 - L239					
L22	376-8002-	DEL LINE	IC DELAY LINE 100NS 1000HM 18 TAP	2	
L71					
01 - 04	380-1001-	30V.100A	DIO SIG 30V 100MA D038	0	
L293 - L294	396-0189-	0197	IC HEX BUFFER BURNED	2	
01	610-8572-		PCB	1	

"L1"

"L1"

"8.5"

"8.5"

(CAUTION - THE FOLLOWING PARTS/COMPONENTS CONTAINED IN THIS B.O.M. ARE NOT RECOMMENDED FOR NEW DESIGNS)

WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
376-0180-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		7
376-0189-	0197	IC HEX BUFFER 16 PIN DIP		20
376-0197-	74504	IC HEX INVERTER		7
376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		2
376-0200-	74508	IC QUAD 2 INPUT POSITIVE AND GATES		14
376-0201-	74544	IC 4-2-3-2 INPUT AND/OR-INVERT GATE		7
376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		13
376-0205-	74532	IC QUAD 2-INPUT OR GATE		7
376-0206-	745240	IC DUAL 3-INPUT EXPANDER		3
376-0217-	745157	IC QUAD 2 TO 1 LINE DATA SEL/MUX		20
376-0221-	745194	IC 4 BIT SHIFT REGISTER		3
376-0228-	74500	IC QUAD 2-INPUT NAND GATE		0
376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		2
376-0235-	745163	IC SYNCHRONOUS 4-BIT BINARY COUNTER		7
376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		3
376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		1
376-0246-	745280	IC 9-BIT PARITY GENERATOR/CHECKER		10
376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		6
376-0270-	745176	IC QUAD D-TYPE FLIP-FLOP		6
376-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		1
376-0290-	745130	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		1
376-0305-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		10
376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		18
376-0333-	745130	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
376-0334-	745240	IC OCTAL BUFFER/LINE DRIVER		3
376-0340-	745109	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		32
396-0189-	0197	IC HEX BUFFER BURNED		2

\*\*\* END-OF-REPORT \*\*\*

8.5"


8.5"

11"

11"

17"

17"

 <b>WANG LABORATORIES, INC.</b> LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		OWN		E ENGR	
		CHK		M ENGR	
MATERIAL	MODEL NO.	TITLE BUS ADAPTER			
	SEE ENGR SPECIFICATIONS				
FINISH	TOL. EX. AS NOTED X/R ± 0.10 FRAC ± 1/32 X/R ± .005 ANG ± 1° 30' MIN	210-8572	C	8572	0
	SCALE 1/4" = 1"	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	SHT 7 OF 7				

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. AND ARE TO BE KEPT STRICTLY CONFIDENTIAL. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WANG LABORATORIES, INC. THE COMPANY'S POLICY IS TO RETURN ALL INFORMATION TO THE COMPANY UPON THE DEMAND OF WANG LABORATORIES, INC.



**WANG** WANG 1989 BUS ADAPTER FINELINE 8572  
 ASI 5284 29 11 11/28/84  
 ASSEMBLY PLOT  
 REV. 1 PCR ECD NO. 33479 12SEP84

NOTES - 1. UNLESS OTHERWISE SPECIFIED -  
 ALL CAPACITORS ARE 50V, 300-1500, EXPRESSED IN KILOFARADS.  
 ALL RESISTORS ARE 1/4W, 5 PERCENT, EXPRESSED IN OHMS.  
 ALL LEADS ARE 30GAWG.  
 ALL DIMS ARE IN INCHES.  
 ALL TEST POINTS ARE 500-0022.

REV	DATE	BY
1	11/28/84	AS
2		
3		
4		

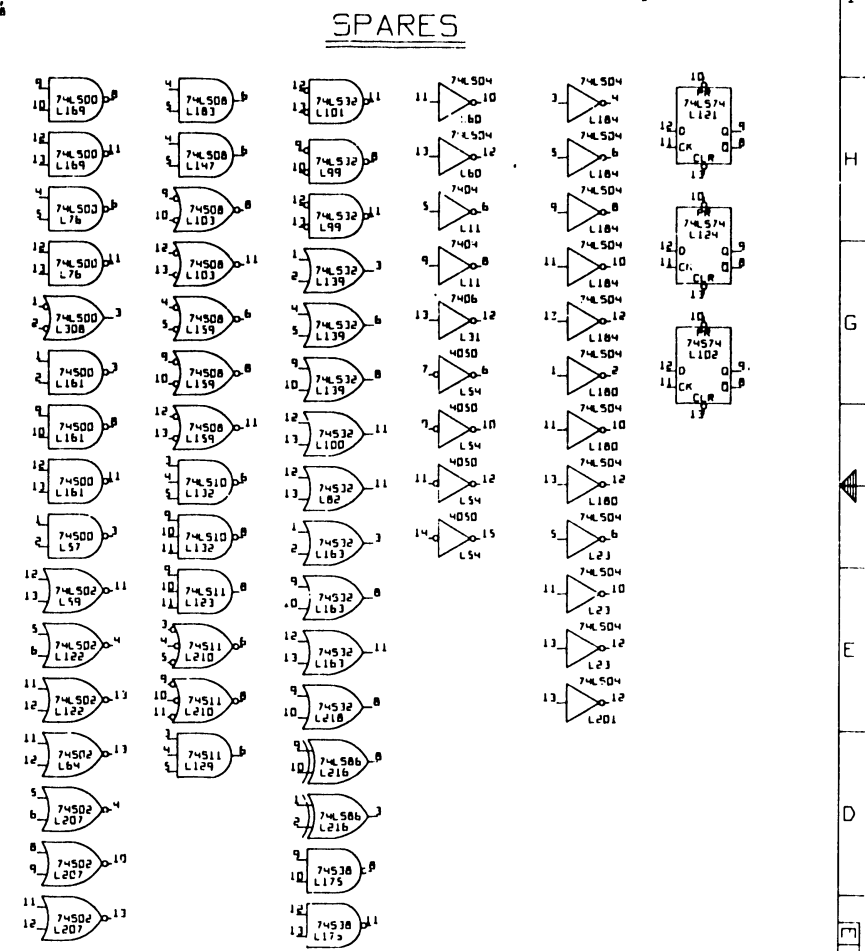
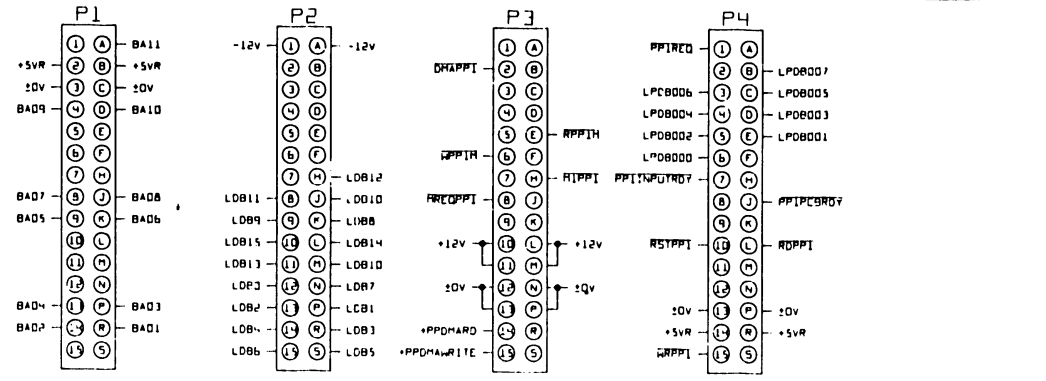
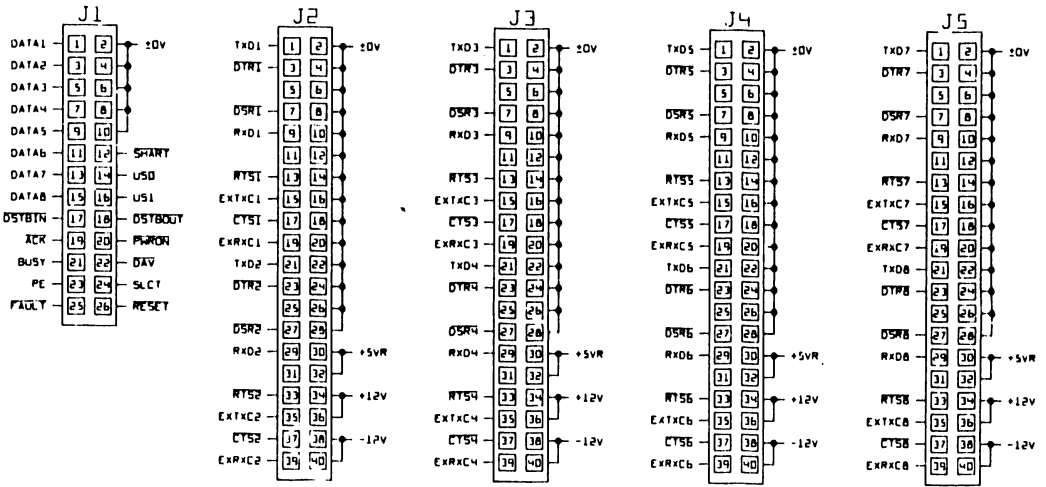
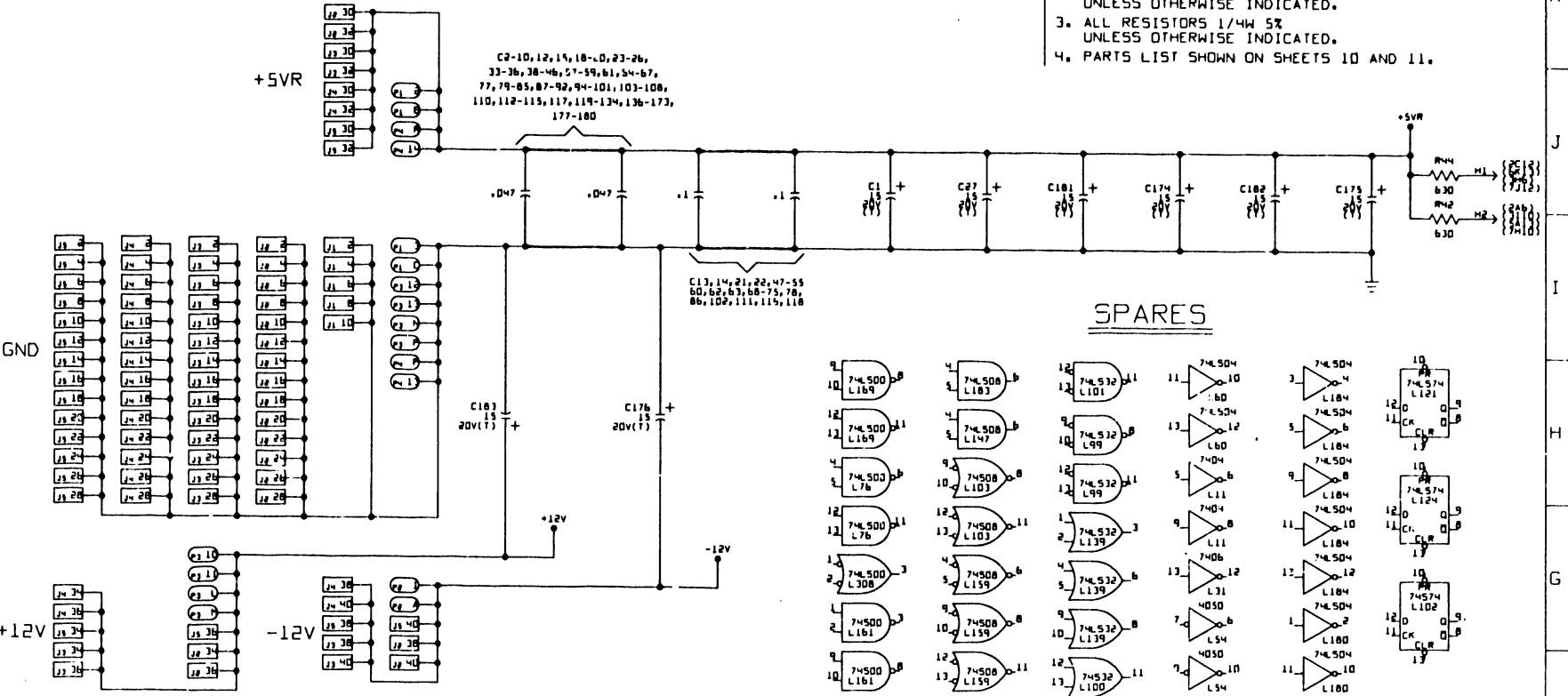
	BY	DATE	APPROVED BY	DATE
	DWH		EMGE	
TITLE ASSEMBLY BUS ADAPTER	DESIGNED BY	DATE	APPROVED BY	DATE
	AS		EMGE	
FINISH	NO. OF PARTS	QTY. PER PART	QTY. PER ASSEMBLY	QTY. PER KIT
	1	1	1	1

WW8

These drawings are the property of WANG LABORATORIES, INC. and are to be used only for the purpose specified. No part of these drawings may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of WANG LABORATORIES, INC.

- NOTES
1. ALL RESISTOR VALUES IN OHMS.
  2. ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE INDICATED.
  3. ALL RESISTORS 1/4W 5% UNLESS OTHERWISE INDICATED.
  4. PARTS LIST SHOWN ON SHEETS 10 AND 11.

PHONEMICS	COORD.	PHONEMICS	COORD.
ACK	9A14	RRPPI	9D14
BA01-BA11	9F14	RRPPIH	9D1
BA02	9A14	RRPPII	9F14
CT51-CT52	8D8	RT51	8D1
CT53	8J8	RT52	8D1
CT54	8J8	RT53	8J1
CT55-CT56	8D14	RT54	8D1
CT57	8J14	RT55	8D8
CT58	8J14	RT56	8J8
DATA1-DATA8	9B14	RD01	8D8
DAV	9B14	RD02	8D8
DOB	9J14	RD03-RD04	8J8
DOB-DOB3	8C9	RD5	8C14
DRPPI	9D14	RD6	8D14
DSB	9J14	RD7-RD8	8J14
DSR1-DSR2	8E8		
DSR3-DSR4	8J8	START	9F14
DSR5-DSR6	8C14	SCT	9F14
DSR7-DSR8	8J14		
DSYTR	9B1	TxD1	8D1
DSYTRT	9A1	TxD2	8C8
DTN1-DTN2	8D1	TxD3-TxD4	8J1
DTN3-DTN4	8J1	TxD5	8E8
DTN5-DTN6	8D8	TxD6	8D8
DTN7-DTN8	8J8	TxD7-TxD8	8J8
EXTXC1	9J14	USR1-USR1	9C1
EXTXC2	9A14		
EXTXC3	9J11		
EXTXC4	9A11		
EXTXC5	9J9		
EXTXC6	9A9		
EXTXC7	9J6		
EXTXC8	9A6		
EXTXC9	9J14		
EXTXC10	9J11		
EXTXC11	9J11		
EXTXC12	9J11		
EXTXC13	9J9		
EXTXC14	9J6		
EXTXC15	9J6		
EXTXC16	9J6		
EXTXC17	9J6		
EXTXC18	9J6		
EXTXC19	9J6		
EXTXC20	9J6		
EXTXC21	9J6		
EXTXC22	9J6		
EXTXC23	9J6		
EXTXC24	9J6		
EXTXC25	9J6		
EXTXC26	9J6		
EXTXC27	9J6		
EXTXC28	9J6		
EXTXC29	9J6		
EXTXC30	9J6		
EXTXC31	9J6		
EXTXC32	9J6		
EXTXC33	9J6		
EXTXC34	9J6		
EXTXC35	9J6		
EXTXC36	9J6		
EXTXC37	9J6		
EXTXC38	9J6		
EXTXC39	9J6		
EXTXC40	9J6		
EXTXC41	9J6		
EXTXC42	9J6		
EXTXC43	9J6		
EXTXC44	9J6		
EXTXC45	9J6		
EXTXC46	9J6		
EXTXC47	9J6		
EXTXC48	9J6		
EXTXC49	9J6		
EXTXC50	9J6		
EXTXC51	9J6		
EXTXC52	9J6		
EXTXC53	9J6		
EXTXC54	9J6		
EXTXC55	9J6		
EXTXC56	9J6		
EXTXC57	9J6		
EXTXC58	9J6		
EXTXC59	9J6		
EXTXC60	9J6		
EXTXC61	9J6		
EXTXC62	9J6		
EXTXC63	9J6		
EXTXC64	9J6		
EXTXC65	9J6		
EXTXC66	9J6		
EXTXC67	9J6		
EXTXC68	9J6		
EXTXC69	9J6		
EXTXC70	9J6		
EXTXC71	9J6		
EXTXC72	9J6		
EXTXC73	9J6		
EXTXC74	9J6		
EXTXC75	9J6		
EXTXC76	9J6		
EXTXC77	9J6		
EXTXC78	9J6		
EXTXC79	9J6		
EXTXC80	9J6		
EXTXC81	9J6		
EXTXC82	9J6		
EXTXC83	9J6		
EXTXC84	9J6		
EXTXC85	9J6		
EXTXC86	9J6		
EXTXC87	9J6		
EXTXC88	9J6		
EXTXC89	9J6		
EXTXC90	9J6		
EXTXC91	9J6		
EXTXC92	9J6		
EXTXC93	9J6		
EXTXC94	9J6		
EXTXC95	9J6		
EXTXC96	9J6		
EXTXC97	9J6		
EXTXC98	9J6		
EXTXC99	9J6		
EXTXC100	9J6		



REVISION

NO.	DATE	BY	DESCRIPTION
1	11/21/64		ASSEMBLED AND CHECKED
2			

E REV

WANG LABORATORIES, INC.

SCHMATIC DIAGRAM

TITLE ASYNC DEVICE CONTROLLER M/L

VS 100

WANG PART NUMBER 210-8168

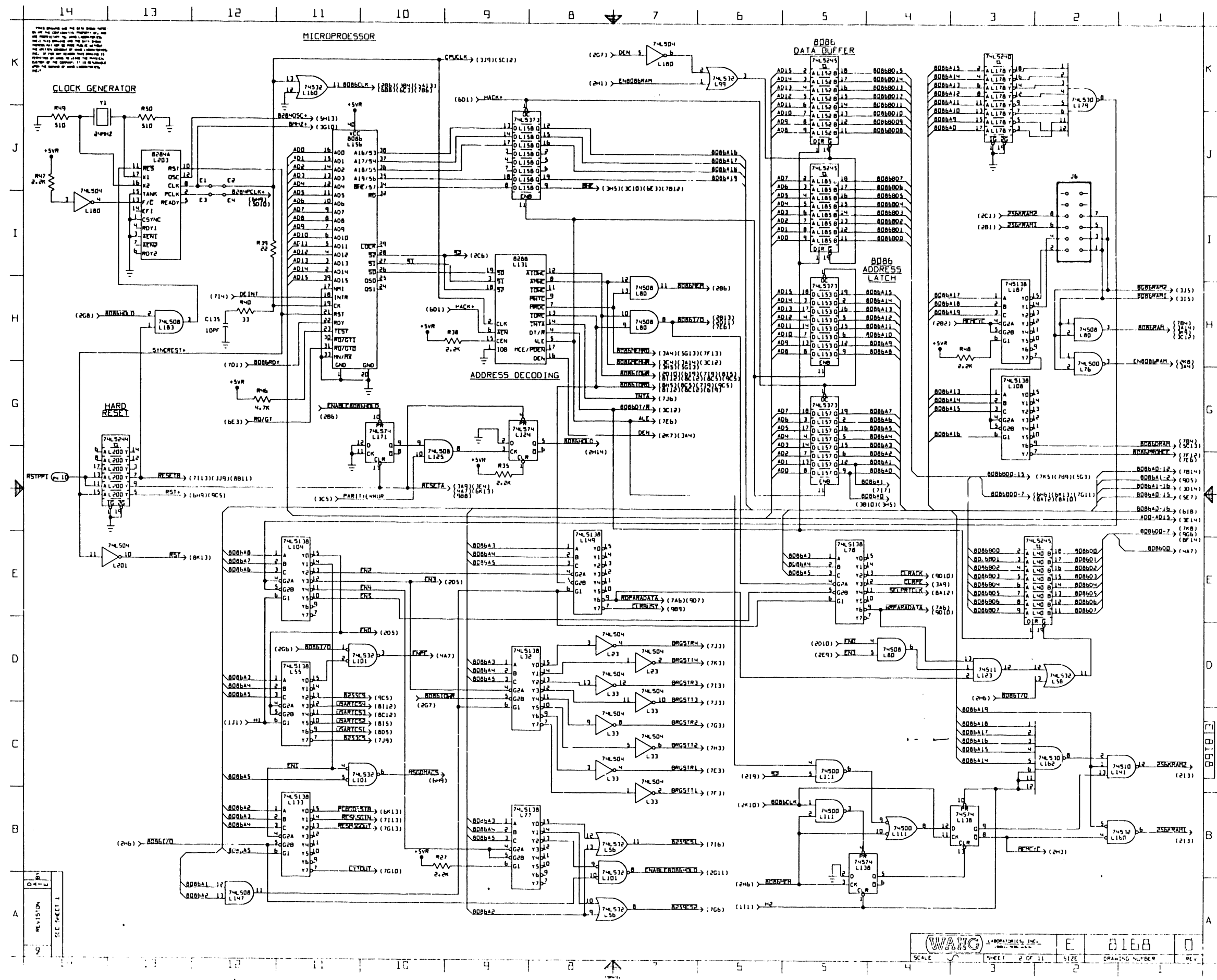
DATE 11/21/64

ENG DC DLR

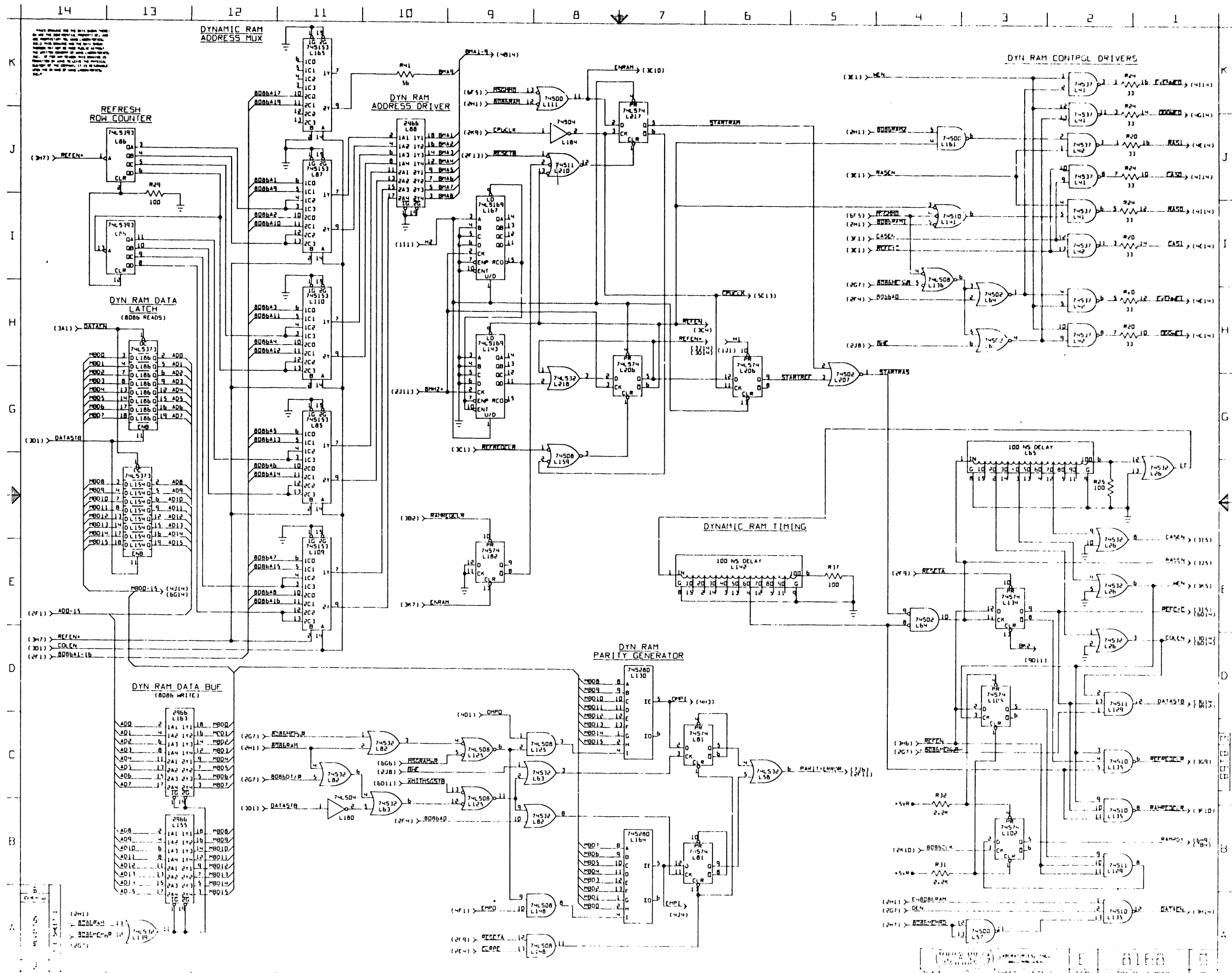
8168

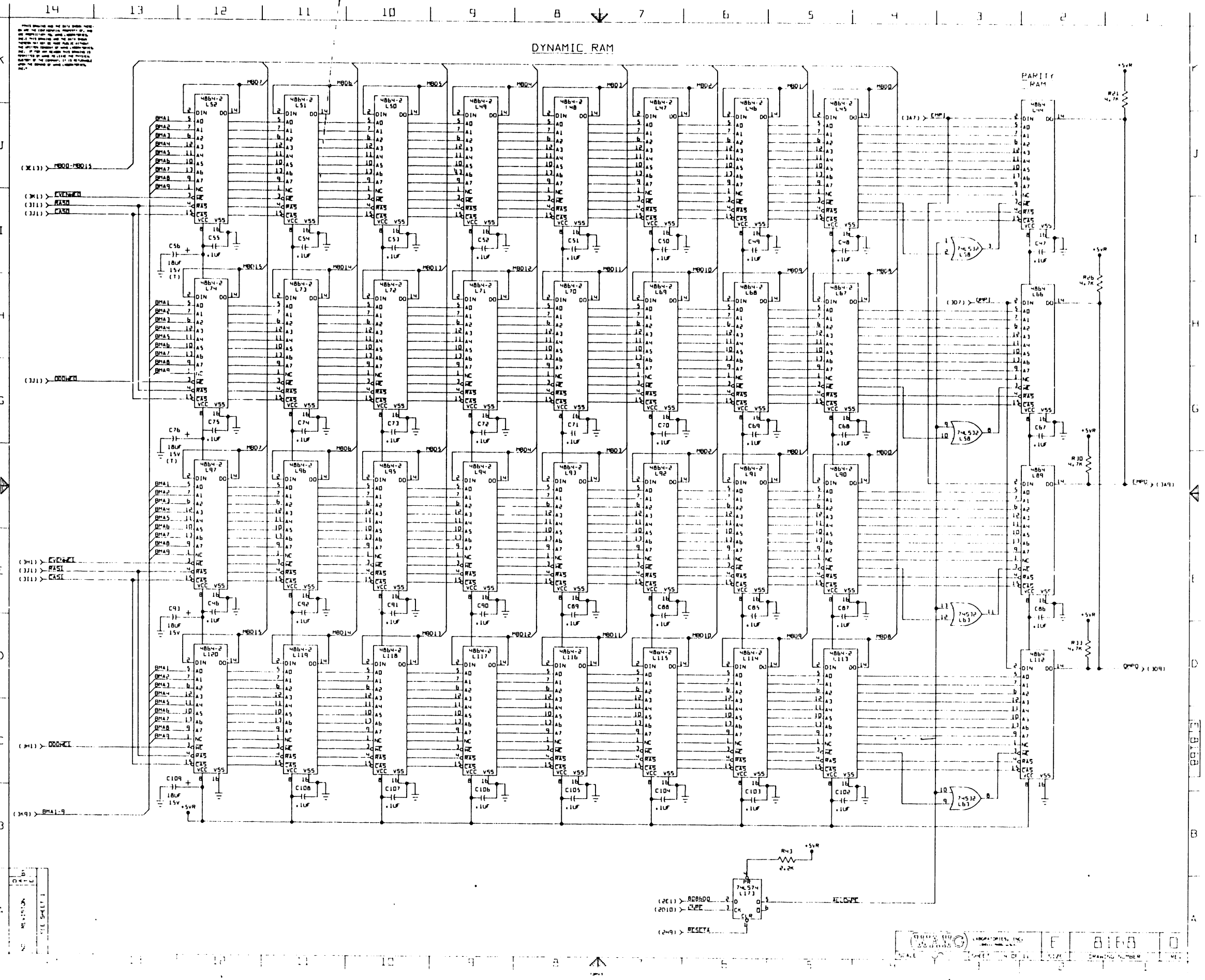
SCALE SHEET 1 OF 11

SIZE DRAWING NUMBER



THIS DRAWING AND THE DATA SHEET ARE THE PROPERTY OF WANG LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE USER OF THIS DRAWING AND THE DATA SHEET AGREES TO HOLD WANG LABORATORIES, INC. HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, WHICH MAY BE ASSERTED AGAINST WANG LABORATORIES, INC. BY ANY THIRD PARTY AS A RESULT OF THE USER'S USE OF THIS DRAWING AND THE DATA SHEET.

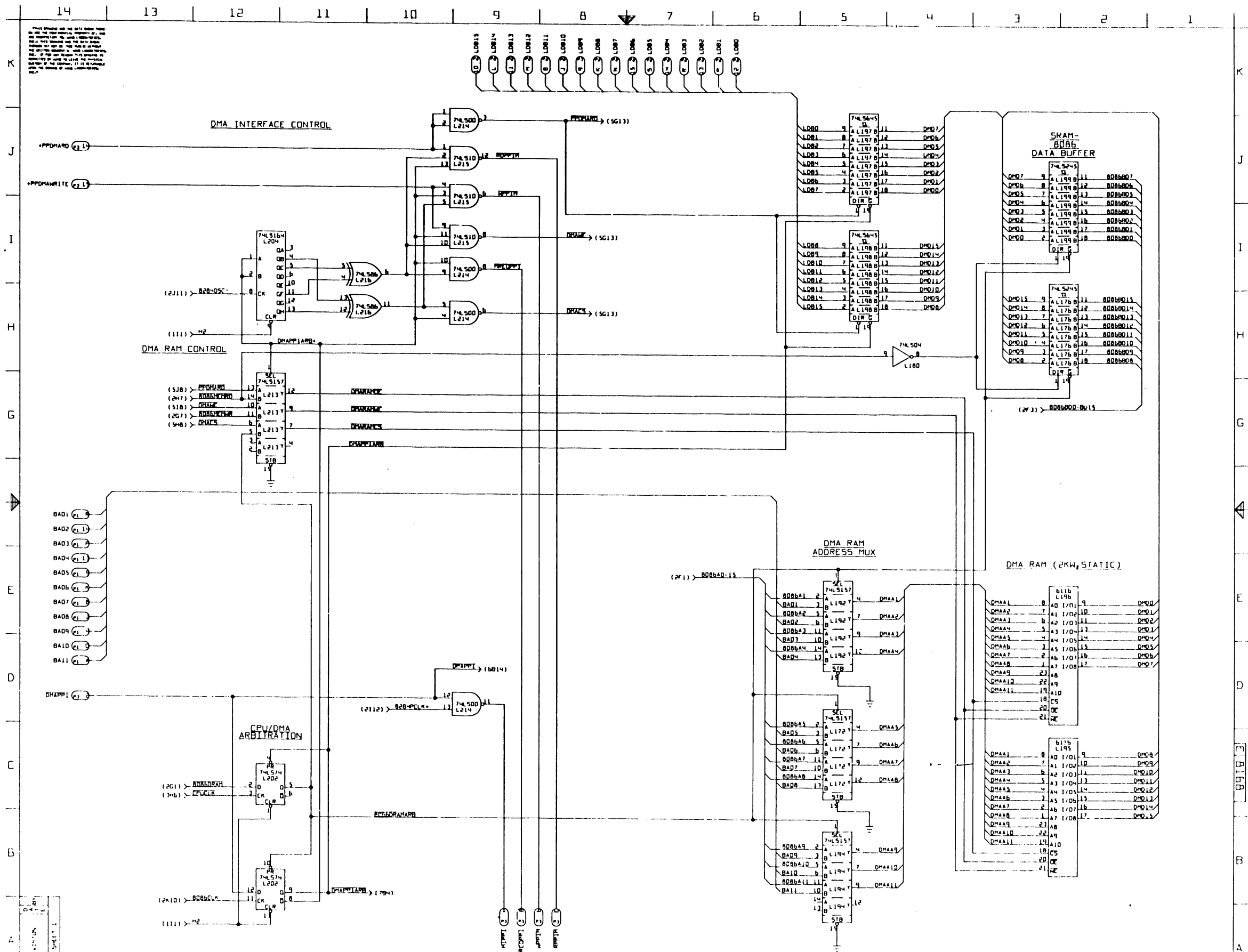




XX4

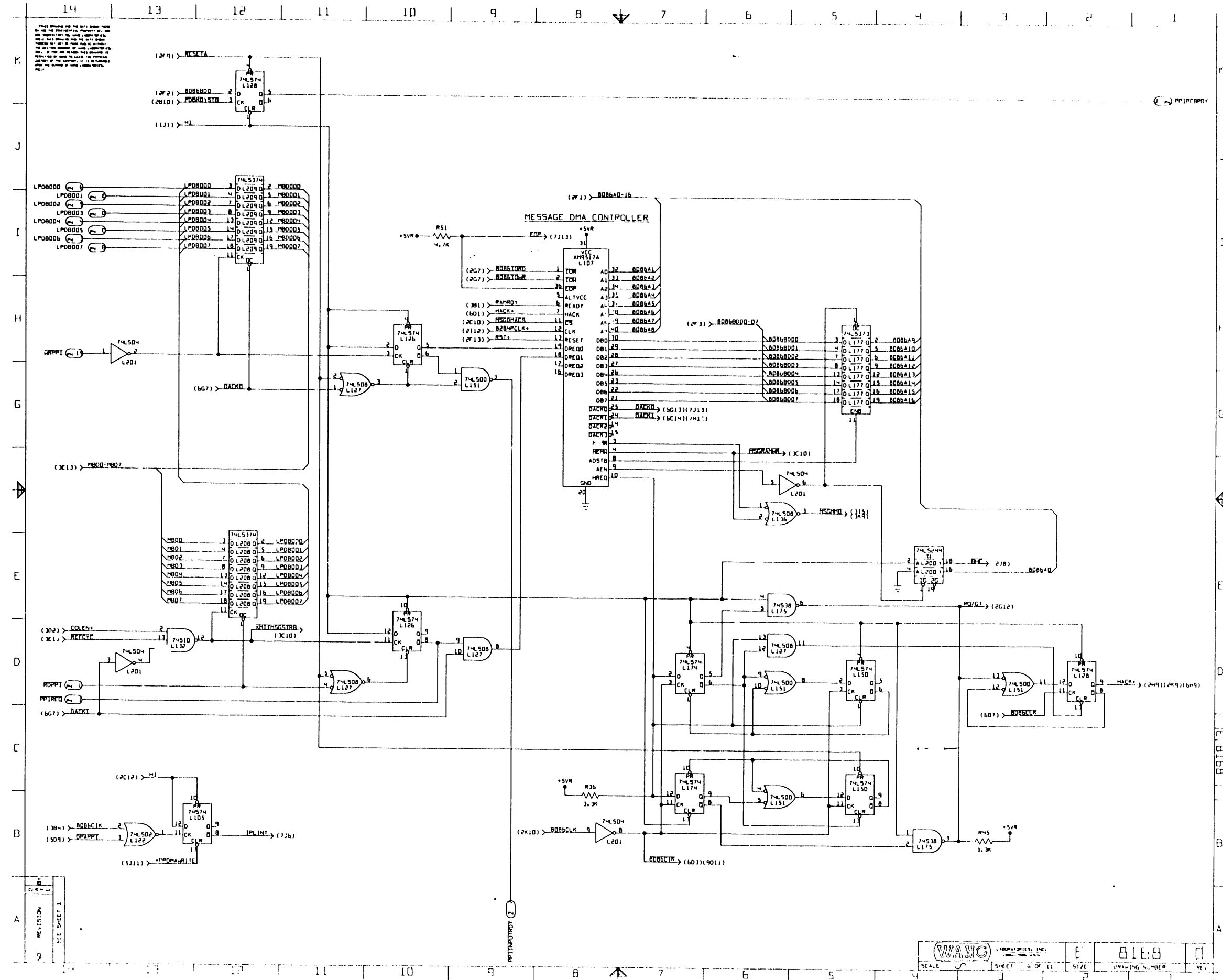
DATE	REV	BY	CHKD	APP'D	CHECKED
			TEXAS INSTRUMENTS, INC. DALLAS, TEXAS, U.S.A.		

8168



THIS DRAWING AND THE DATA SHEET HEREON ARE THE PROPERTY OF TEXAS INSTRUMENTS INCORPORATED. THESE DRAWINGS AND DATA SHEET ARE UNCLASSIFIED UNLESS INDICATED OTHERWISE. ANY REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF TEXAS INSTRUMENTS INCORPORATED IS PROHIBITED. IF YOU ARE RECEIVING THIS DOCUMENT FROM AN EXTERNAL SOURCE, YOU SHOULD CONTACT YOUR LOCAL SALES OFFICE FOR INFORMATION ON THE ORIGINAL SOURCE OF THIS DOCUMENT.





THIS DRAWING AND THE DATA THEREON  
 IS THE PROPERTY OF THE BULL GROUP INC.  
 AND IS NOT TO BE REPRODUCED OR  
 TRANSMITTED IN ANY FORM OR BY ANY  
 MEANS, ELECTRONIC OR MECHANICAL,  
 INCLUDING PHOTOCOPYING, RECORDING,  
 OR BY ANY INFORMATION STORAGE AND  
 RETRIEVAL SYSTEM, WITHOUT THE  
 WRITTEN PERMISSION OF THE BULL GROUP INC.  
 03/84

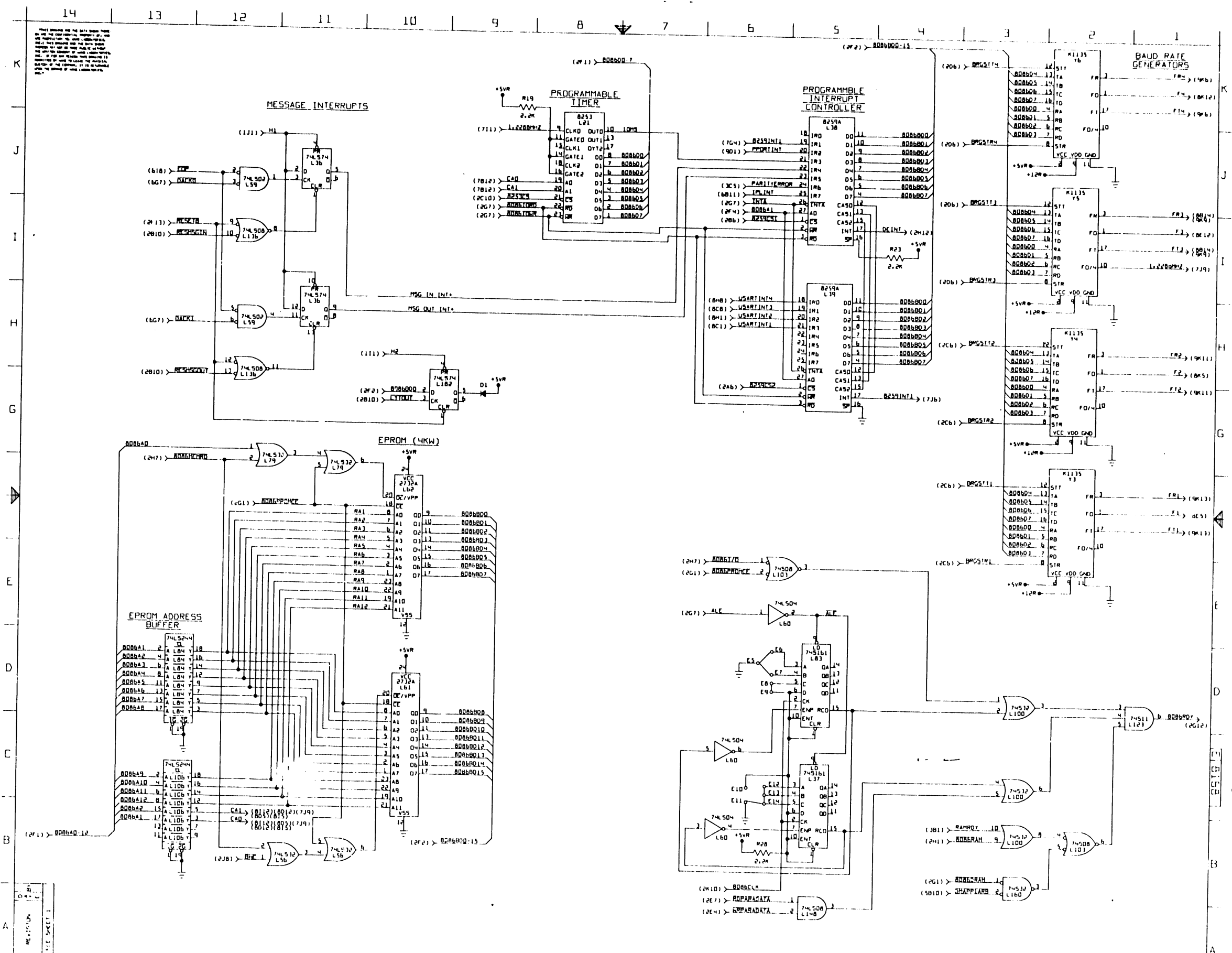
REVISION

REV.	DESCRIPTION
2	

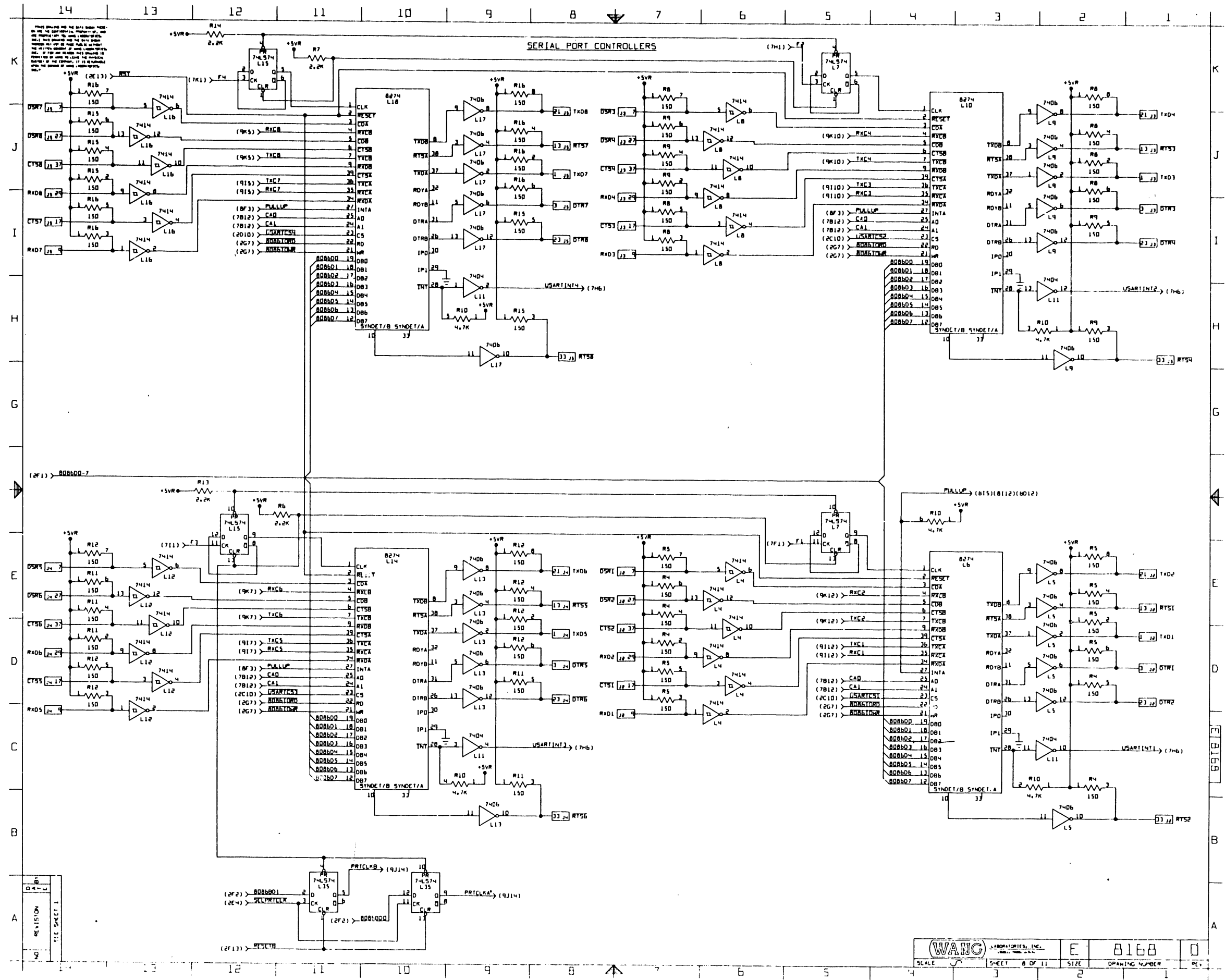
SHEET 1

**WANG** LABORATORIES, INC.  
 3501 KILBURN AVE., BERKELEY, CALIF. 94704  
 SCALE: 1:1 SIZE: 8 1/2 X 11

XX6



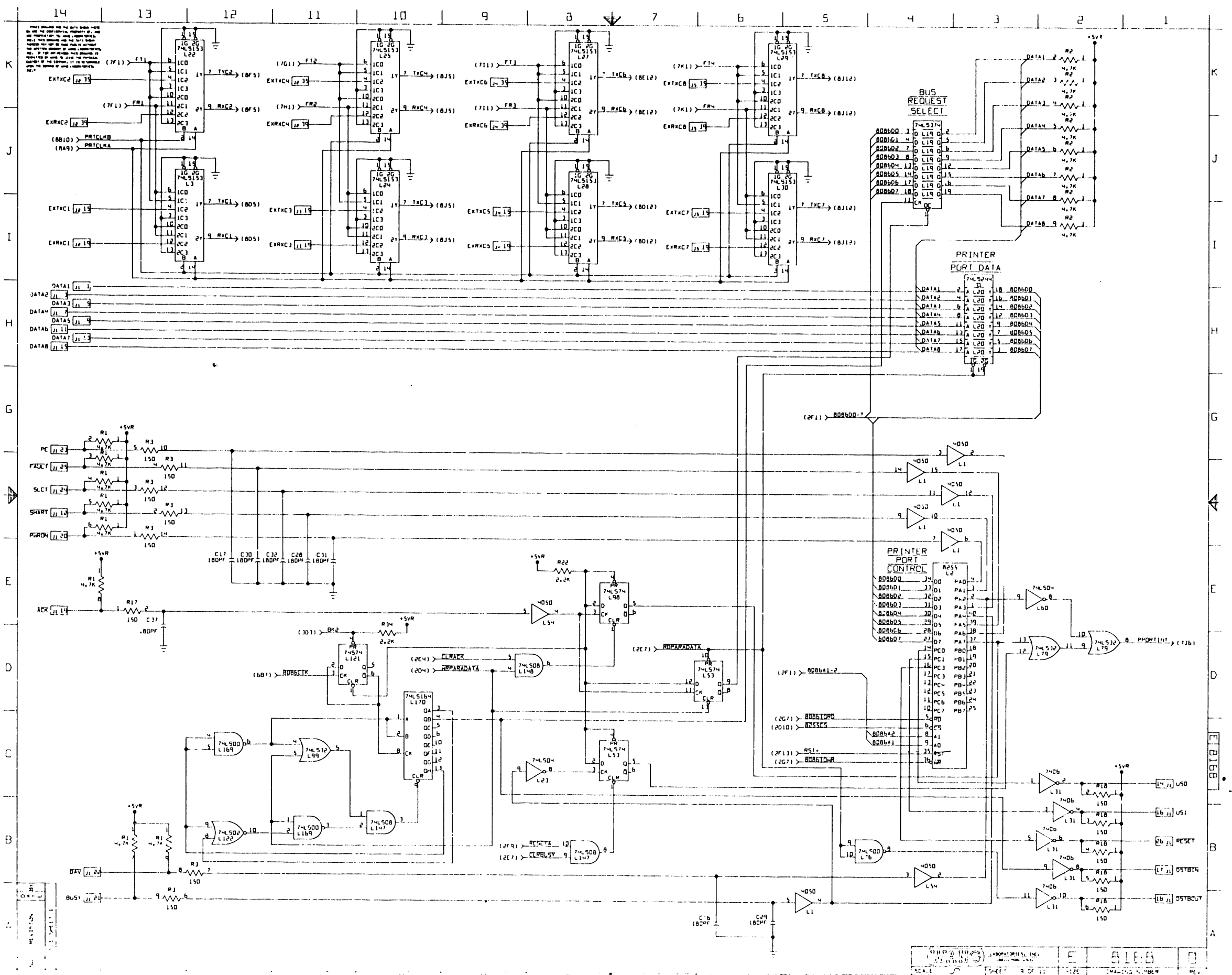
NOTE: CHECK THE DATA SHEET FOR THE 8255 AND 8259A FOR THE COMPLETE LIST OF PINS AND SIGNALS. THE 8255 IS A CMOS DEVICE AND SHOULD BE HANDLED AS SUCH. THE 8259A IS A CMOS DEVICE AND SHOULD BE HANDLED AS SUCH. THE 8256A IS A CMOS DEVICE AND SHOULD BE HANDLED AS SUCH. THE 8256A IS A CMOS DEVICE AND SHOULD BE HANDLED AS SUCH.



These drawings are for the 8168 Board only. Do not use the components or values of any other board. If you are using a different board, you must check the component values and values of the components, if it is necessary, and the values of the components, if it is necessary.

REV	DATE
1	
2	

REVISION



NOTE: EXTRACTS FROM THE DATA SHEET FOR THE 74LS153 AND 74LS74 MUST BE REFERRED TO FOR COMPLETE INFORMATION ON THE OPERATION OF THESE DEVICES. THE 74LS153 IS A 3-TO-8 LINE DECODER WITH ENABLE INPUTS AND TWO 4-BIT BINARY COUNTERS. THE 74LS74 IS A D-TYPE FLIP-FLOP WITH SET AND CLEAR INPUTS AND TWO 4-BIT BINARY COUNTERS. THE 74LS164 IS A 6-BIT SERIAL IN-PARALLEL OUT SHIFT REGISTER WITH CLEAR AND PRESET INPUTS. THE 74LS00 AND 74LS04 ARE UNIVERSAL LOGIC GATES.

DATA1	DATA2	DATA3	DATA4	DATA5	DATA6	DATA7	DATA8
000000	000000	000000	000000	000000	000000	000000	000000
000001	000001	000001	000001	000001	000001	000001	000001
000002	000002	000002	000002	000002	000002	000002	000002
000003	000003	000003	000003	000003	000003	000003	000003
000004	000004	000004	000004	000004	000004	000004	000004
000005	000005	000005	000005	000005	000005	000005	000005
000006	000006	000006	000006	000006	000006	000006	000006
000007	000007	000007	000007	000007	000007	000007	000007

17"

11"

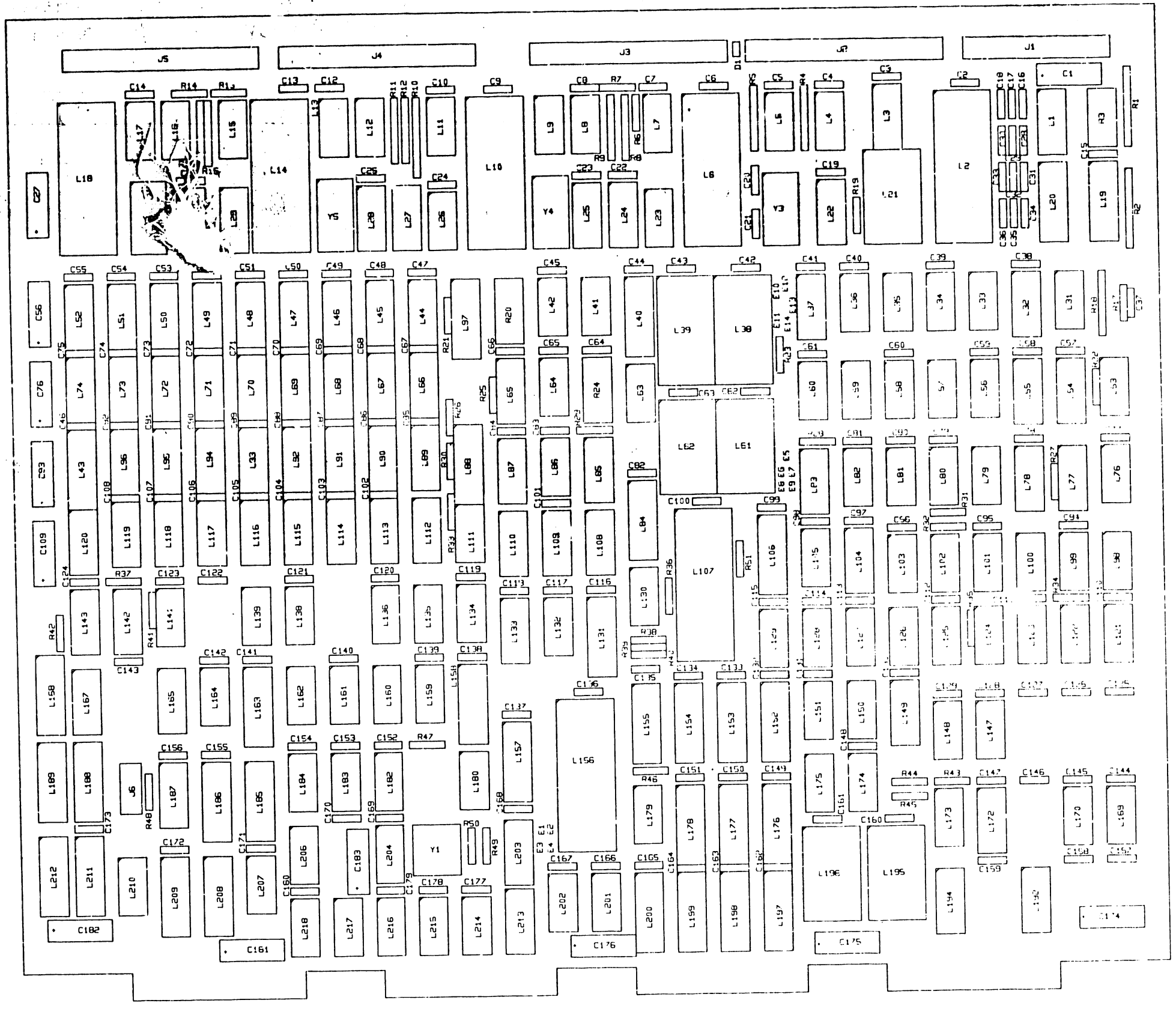
8.5"

8.5"

11"

17"

XX10



8168

17"

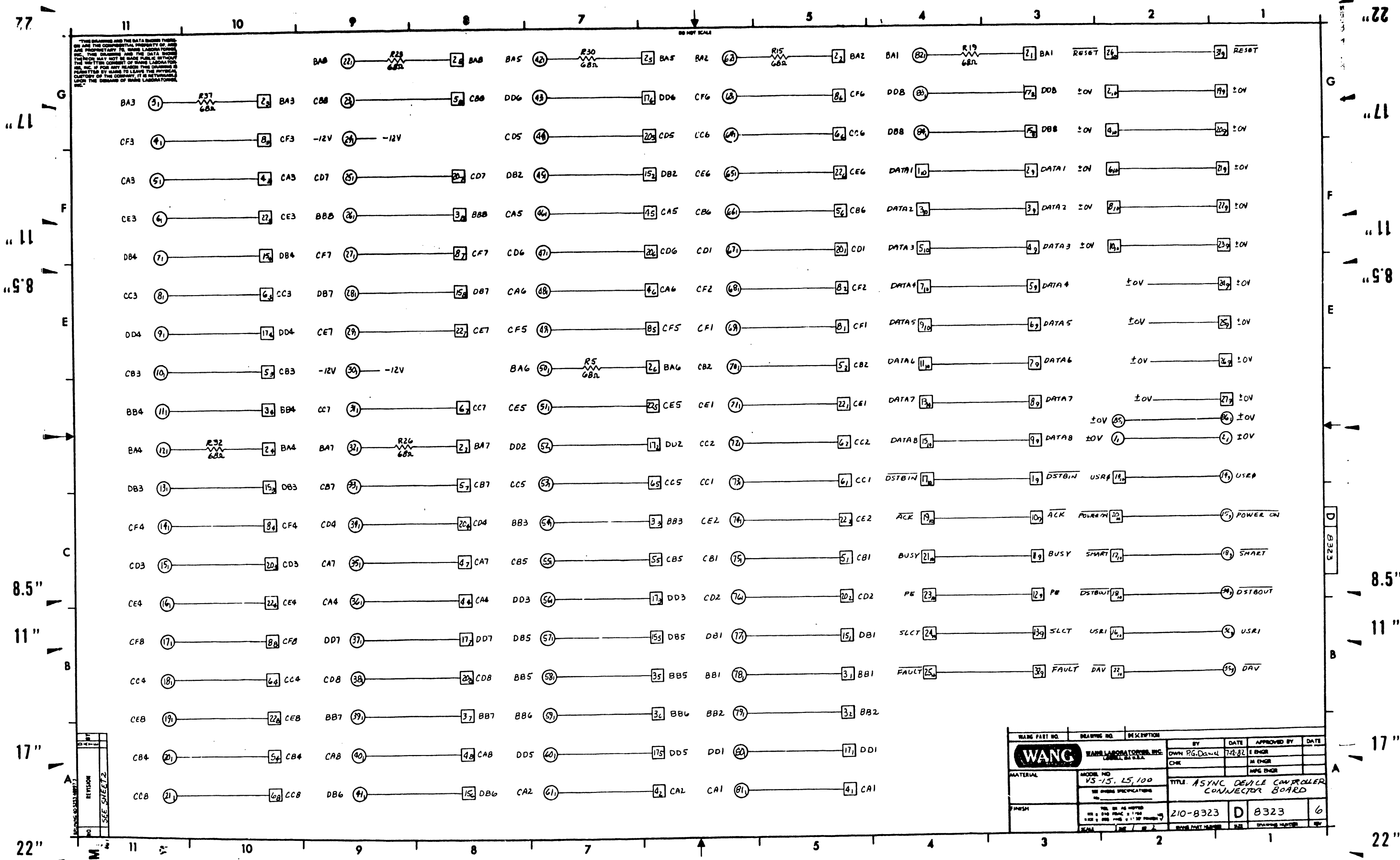
11"

8.5"

8.5"

11"

17"

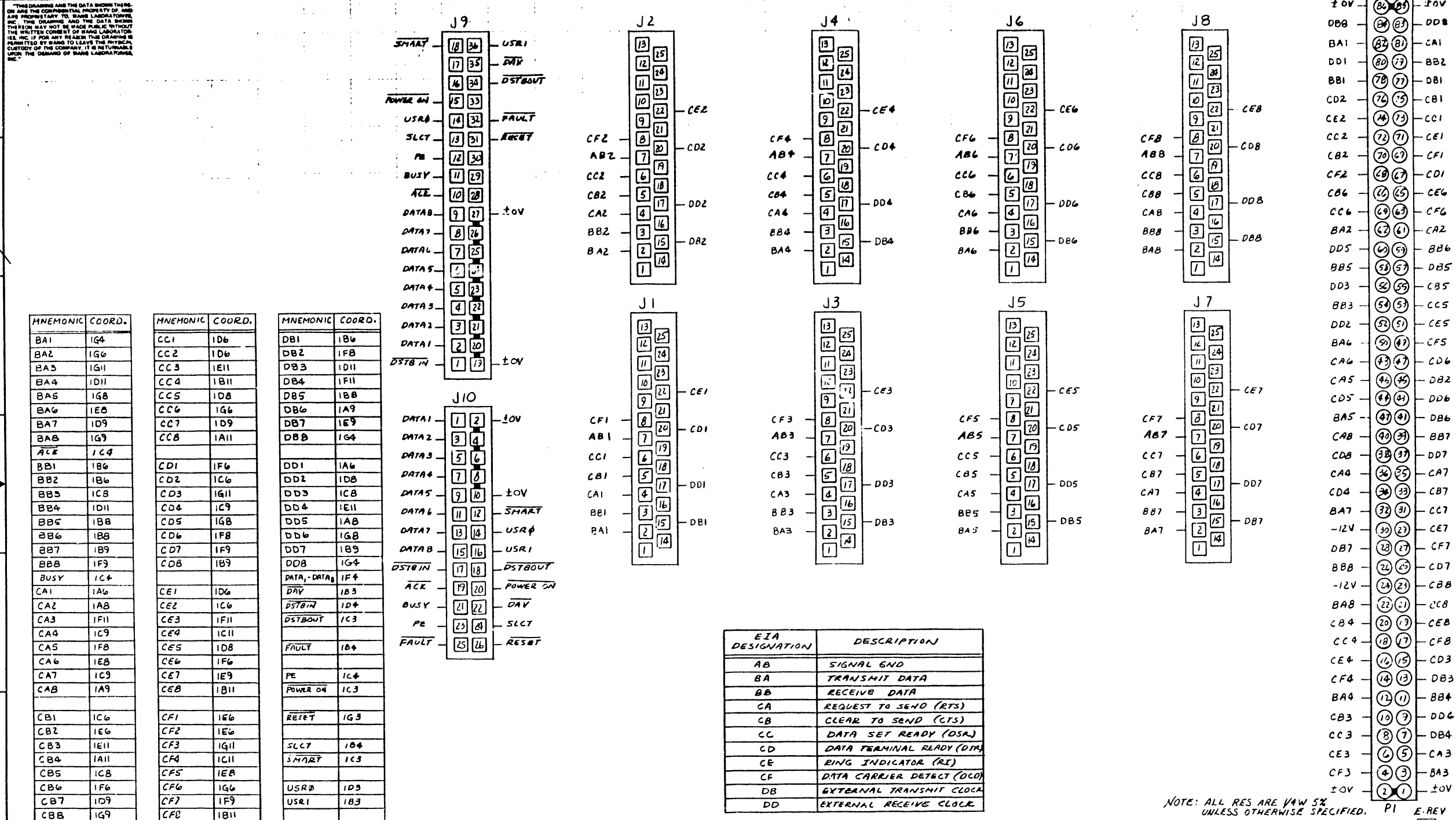


THIS DRAWING AND THE DATA THEREON ARE THE PROPERTY OF WANG LABORATORIES, INC. THE DRAWING AND THE DATA HEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS REPRODUCED BY ANY OTHER PARTY, IT IS HEREBY UNDERSTOOD THAT THE REPRODUCER IS RESPONSIBLE FOR THE DEMAND OF WANG LABORATORIES, INC.

REV	DATE	DESCRIPTION
1		SEE SHEET 2

WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			OWN PG. Dan L	7-2-82	ENGR	
			CHK		AS ENGR	
					MRG ENGR	
MATERIAL	MODEL NO.	TITLE: ASYNC DEVICE CONTROLLER CONNECTOR BOARD				
	VS-15, L5, 100					
	SEE DRAWING SPECIFICATIONS					
FINISH	SEE DR. AS SHIPPED	210-8323	D	8323	6	
	DR. & ENG. DRAW. 1/16"					
	OR. & ENG. DRAW. 1/16"					
	SCALE					

THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. THE DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.



MNEMONIC	COORD.	MNEMONIC	COORD.	MNEMONIC	COORD.
BA1	1G4	CC1	1D6	DB1	1B6
BA2	1G6	CC2	1D6	DB2	1F8
BA3	1G11	CC3	1E11	DB3	1D11
BA4	1D11	CC4	1B11	DB4	1F11
BA5	1G8	CC5	1D8	DB5	1B8
BA6	1E8	CC6	1G6	DB6	1A9
BA7	1D9	CC7	1D9	DB7	1E9
BA8	1G9	CC8	1A11	DB8	1G4
ACK	1C4	CD1	1F6	DD1	1A6
BB1	1B6	CD2	1G6	DD2	1D8
BB2	1B6	CD3	1G11	DD3	1C8
BB3	1C8	CD4	1C9	DD4	1E11
BB4	1D11	CD5	1G8	DD5	1A8
BB5	1B8	CD6	1F8	DD6	1G8
BB6	1B8	CD7	1F9	DD7	1B9
BB7	1B9	CD8	1B9	DD8	1G4
BB8	1F9	CE1	1D6	DATA-DATA	1F4
BUSY	1C4	CE2	1C6	DAY	1B3
CA1	1A6	CE3	1F11	DSTBIN	1D4
CA2	1A8	CE4	1C11	DSTBOUT	1C3
CA3	1F11	CE5	1D8	FAULT	1B4
CA4	1C9	CE6	1F6	PE	1C4
CA5	1F8	CE7	1E9	POWER ON	1C3
CA6	1E8	CE8	1B11	RESET	1G3
CA7	1C9	CF1	1E6	SLCT	1B4
CAB	1A9	CF2	1E6	SMART	1C3
CB1	1C6	CF3	1G11	USR0	1D3
CB2	1E6	CF4	1C11	USR1	1B3
CB3	1E11	CF5	1E8		
CB4	1A11	CF6	1G6		
CB5	1C8	CF7	1F9		
CB6	1F6	CF8	1B11		
CB7	1D9				
CBB	1G9				

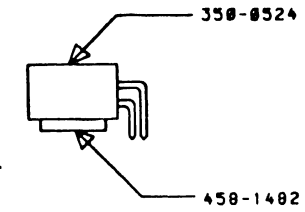
EIA DESIGNATION	DESCRIPTION
AB	SIGNAL GND
BA	TRANSMIT DATA
BB	RECEIVE DATA
CA	REQUEST TO SEND (RTS)
CB	CLEAR TO SEND (CTS)
CC	DATA SET READY (DSR)
CD	DATA TERMINAL READY (DTR)
CE	RING INDICATOR (RI)
CF	DATA CARRIER DETECT (DCD)
DB	EXTERNAL TRANSMIT CLOCK
DD	EXTERNAL RECEIVE CLOCK

NOTE: ALL RES ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED. PI E-REV 1

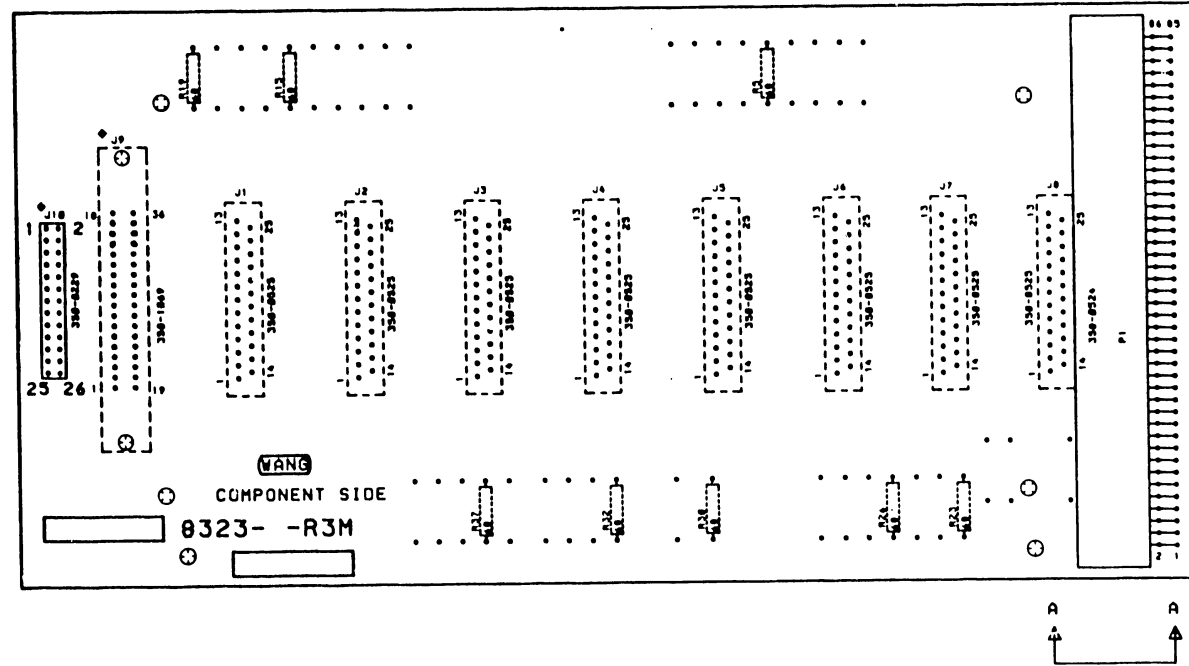
REV	DATE	BY	DESCRIPTION
1			

WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			OWN (P.S.)	7-12-72	ENGR D CHEN	7-15-72
			CHK	7-15-72	AS ENGR	
					MFG ENGR	
MATERIAL	MODEL NO	TITLE				
	V. 15, 7.5 100	ASYNC DEVICE CONTROLLER CONNECTOR BOARD				
FINISH	TEL OR AS NOTED	210-8323	D	8323		
	SEE 2-DWG PAGE 2-1000					
	DATE: 7-15-72					
	SCALE	WANG PART NUMBER				

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."



DETAIL A-A

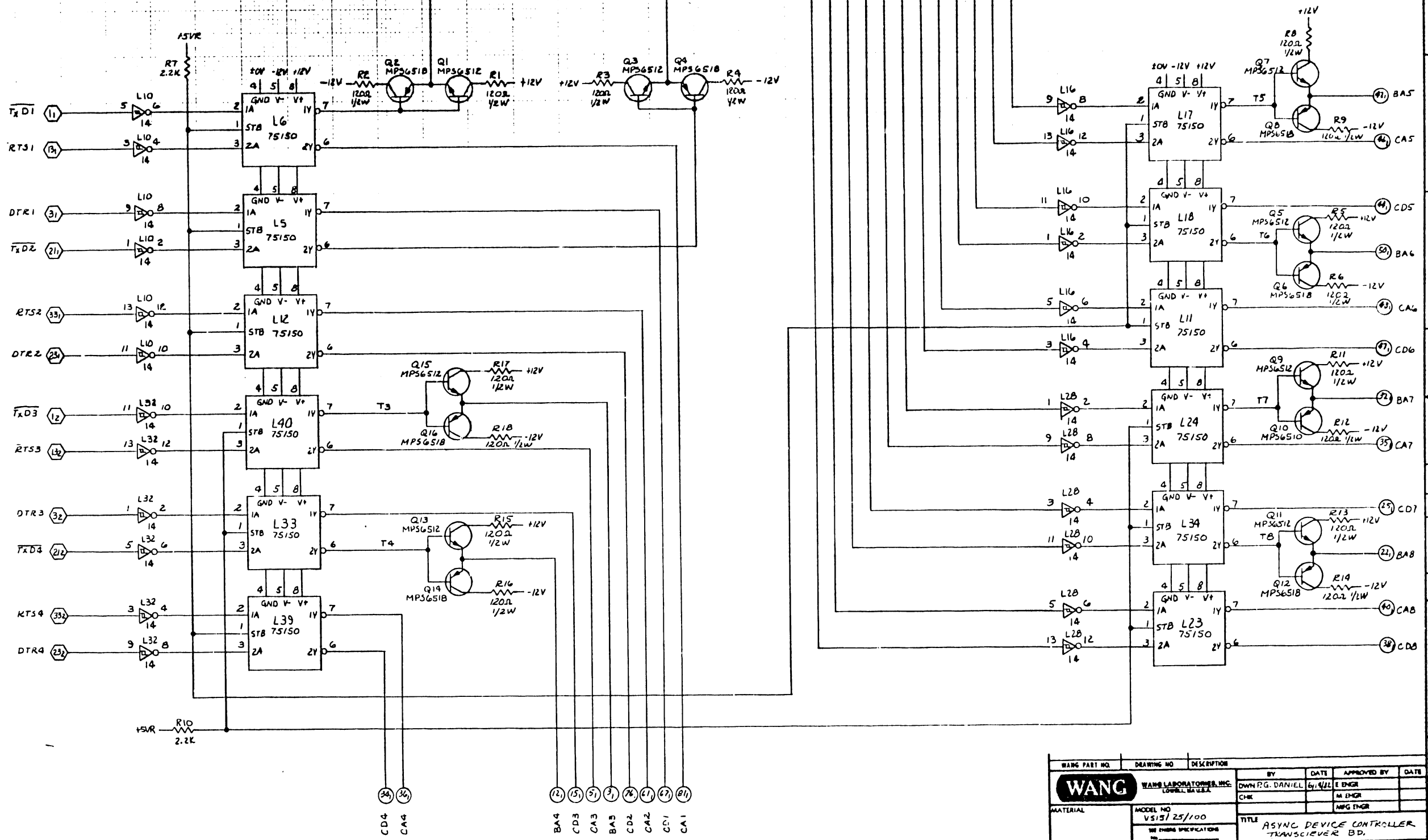


NOTES: 1. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W. 5% EXPRESSED IN OHMS.  
 2. ALL COMPONENTS OTHER THAN P1 AND J18 ARE MOUNTED ON CIRCUIT SIDE OF BOARD.  
 \* DO NOT LOAD J9 OR J18 FOR 218-8323-1

<b>WANG</b> LABORATORIES INC. LOVELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		OWN	G. TYNES	4/8/62	E ENGR
MATERIAL _____ MODEL NO. VS15/25/100 SEE ENGR SPECIFICATIONS NO. 10-203		CHK		M ENGR	
		E C CONTROL		MFG ENGR	
FINISH _____ TOL. EX. AS NOTED .XXX+/- .010 FRAC. +/- 1/64 .XXX+/- .005 ANG +/- 1' 30"		TITLE			
		ASYNC DEVICE CONTROLLER CONNECTOR BO.			
SCALE 1/1		218-8323-R3	C	8323	7
SHT 1 OF 1		DRWG PART NUMBER	SIZE	DRAWING NUMBER	REV



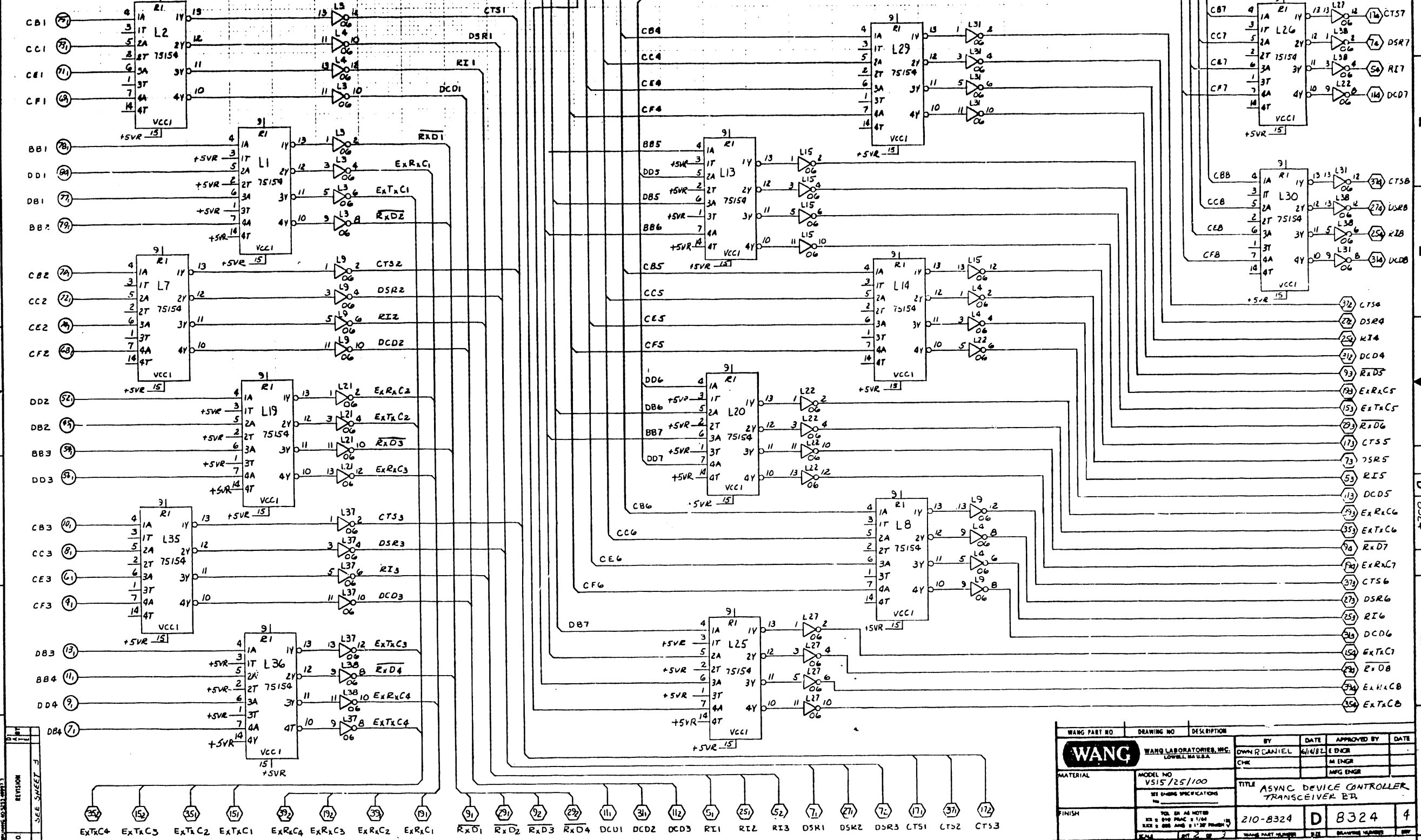
THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF YOU HAVE RECEIVED THIS DRAWING OR INFORMATION FROM ANY SOURCE, YOU ARE NOT TO DISSEMINATE IT TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC.



NO.	REVISION	DATE	BY
1	SEE SHEET 3		

WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			DOWN, P.G. DANIEL	6/14/72	E ENGR	
			CHK		M ENGR	
					MFG ENGR	
MATERIAL	MODEL NO. V515/25/100	TITLE ASYNC DEVICE CONTROLLER TRANSCEIVER BD.				
FINISH	NO. 01 AS NOTED	210-8324	D	8324	4	

THIS DRAWING AND THE DATA THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THE DRAWING AND THE DATA THEREON SHOULD NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS HEREBY ON BEHALF OF WANG LABORATORIES, INC.



REV	DESCRIPTION
1	SEE SHEET 3

WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			DWNR DANIEL	4/18/74	EDR	
			CHK		M ENGR	
					MFG ENGR	
MATERIAL	MODEL NO	TITLE				
	V515/25100	ASYNC DEVICE CONTROLLER TRANSCEIVER BR.				
FINISH	REV. OR. AS NOTED	210-8324	D	B324	4	
	REV. 2 080 AND 2 11 37 PENDING					
	FORM 107-2 OF 7					

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG LABORATORIES, INC. AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THE DRAWING IS REPRODUCED OR TRANSMITTED IN ANY MANNER, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE DEMAND OF WANG LABORATORIES, INC."

I.C. LOCATION	TYPE	WL. PART NO.
L1, 2, 7, 8, 13, 14, 19, 20, 25, 26, 29, 30, 32, 33	75154	376-0077
L3, 4, 9, 15, 21, 22, 27, 31, 37, 38	7406	376-0055
L5, 6, 11, 12, 17, 18, 23, 24, 33, 34, 39, 40	75150	376-0076
L10, 16, 28, 32	7414	376-0139

I.C. TYPE	LOCATION	SPARES
7406	L15	1
	L21	2
	L27	1

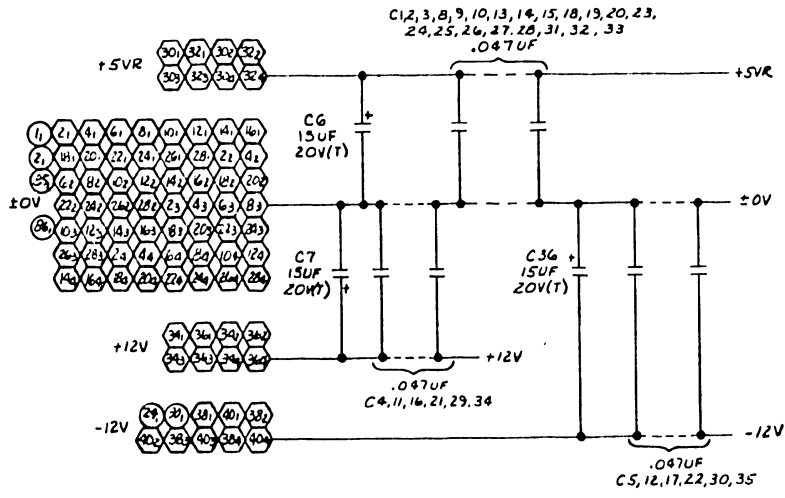
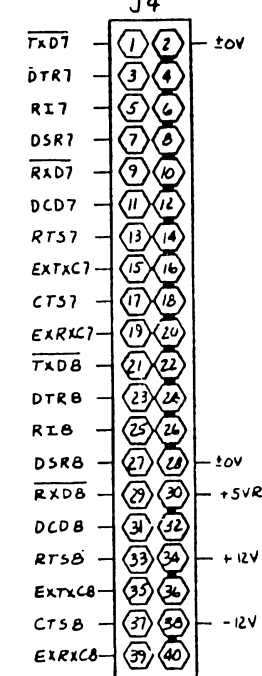
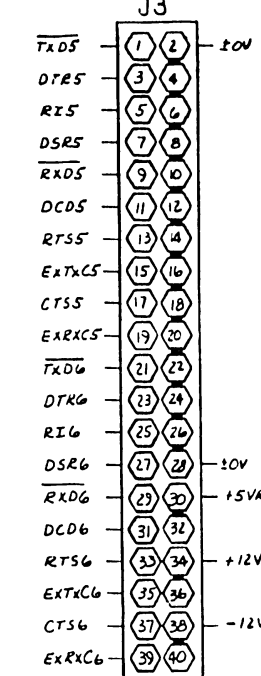
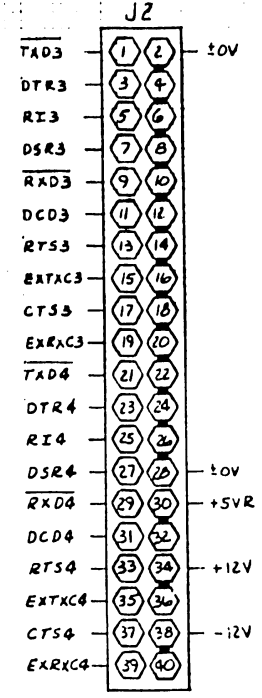
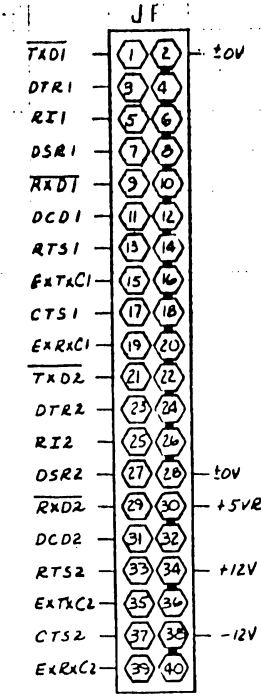
MNEMONICS	COORD.
BA1	1G8
BA2	1G6
BA3	1A7
BA4	1A7
BA5	1F1
BA6	1E1
BA7	1D1
BA8	1C1
BB1	2F11
BB2	2E11
BB3	2D11
BB4	2B11
BB5	2G9
BB6	2G9
BB7	2G10
BB8	2G10
CA1	1A6
CA2	1A6
CA3	1A7
CA4	1A8
CA5	1F1
CA6	1E1
CA7	1D1
CA8	1B1
CB1	2G11
CB2	2E11
CB3	2C11
CB4	2G5
CB5	2G5
CB6	2G5
CB7	2G2
CB8	2G1
CC1	2G11
CC2	2E11
CC3	2C11
CC4	2G6
CC5	2G6
CC6	2G5
CC7	2G2
CC8	2G2
CD1	1A6
CD2	1A6
CD3	1A7
CD4	1A8
CD5	1E1
CD6	1D1
CD7	1C1
CD8	1B1
DD1	2F11
DD2	2D11
DD3	2C11
DD4	2B11
DD5	2G4
DD6	2G4
DD7	2G4
DD8	2G8

MNEMONICS	COORD.
CE1	2F11
CE2	2E11
CE3	2C11
CE4	2G7
CE5	2G6
CE6	2G6
CE7	2G8
CE8	2G3
CF1	2F11
CF2	2D11
CF3	2B11
CF4	2G7
CF5	2G8
CF6	2G8
CF7	2G3
CF8	2G3
CG1	2F11
CG2	2A4
CG3	2A4
CG4	2A4
CG5	2E1
CG6	2D1
CG7	2B1
CG8	2G1
CG9	2F1
CH1	2E11
CH2	2D11
CH3	2B11
CH4	2A11
CH5	2G8
CH6	2G8
CH7	2G9
CH8	2G7
CD1	2A7
CD2	2A7
CD3	2A6
CD4	2D1
CD5	2C1
CD6	2B1
CD7	2F1
CD8	2E1
DD1	2F11
DD2	2D11
DD3	2C11
DD4	2B11
DD5	2G4
DD6	2G4
DD7	2G4
DD8	2G8

MNEMONICS	COORD.
DSR1	2A5
DSR2	2A5
DSR3	2A5
DSR4	2D1
DSR5	2C1
DSR6	2B1
DSR7	2G1
DSR8	2E1
DTR1	1E11
DTR2	1D11
DTR3	1C11
DTR4	1B11
DTR5	1G4
DTR6	1G4
DTR7	1G5
DTR8	1G5
EXRAC1	2A8
EXRAC2	2A9
EXRAC3	2A9
EXRAC4	2A9
EXRAC5	2D1
EXRAC6	2C1
EXRAC7	2C1
EXRAC8	2B1
EXRAC9	2A10
EXRAC10	2A10
EXRAC11	2A10
EXRAC12	2A11
EXRAC13	2D1

MNEMONICS	COORD.
EXTC6	2C1
EXTC7	2B1
EXTC8	2B1
RT1	2A6
RT2	2A6
RT3	2A5
RT4	2D1
RT5	2C1
RT6	2B1
RT7	2F1
RT8	2E1
RTS1	1F11
RTS2	1E11
RTS3	1D11
RTS4	1B11
RTS5	1G4
RTS6	1G4
RTS7	1G4
RTS8	1G5
RAD1	2A8
RAD2	2A8
RAD3	2A7
RAD4	2A8
RAD5	2D1
RAD6	2D1
RAD7	2C1
RAD8	2B1

MNEMONICS	COORD.
TXD1	1F11
TXD2	1E11
TXD3	1D11
TXD4	1C11
TXD5	1G4
TXD6	1G4
TXD7	1G4
TXD8	1G5

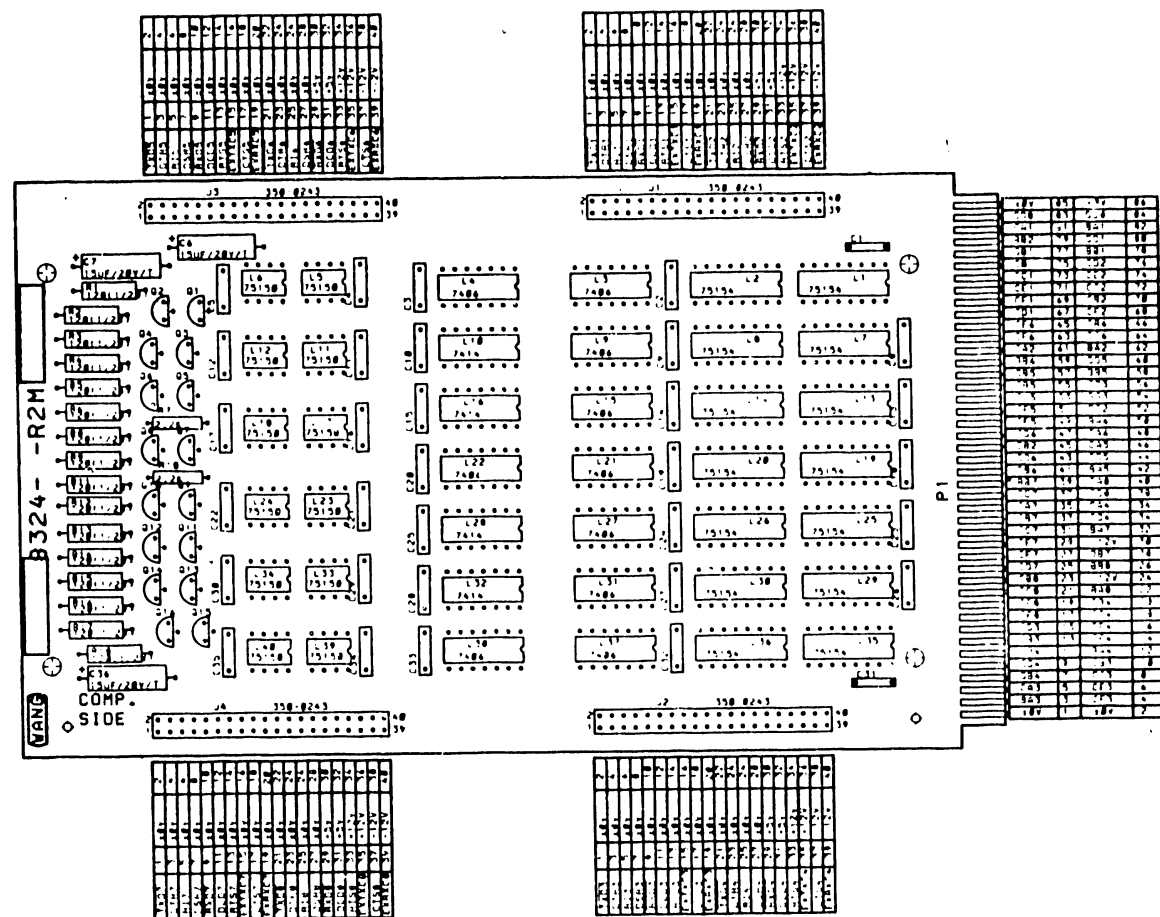


NOTE: ALL RESISTORS ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

REV.	DESCRIPTION
1	ASSEMBLY

WANG PART NO.	DRAWING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			DWNG, DANIEL	6/10/71	ENGR, L. CHEN	6/10/71
			CHK, CHEN	6/23/71	MGR	
					MFG ENGR	
MATERIAL	MODEL NO. VS15125/100	TITLE	ASYNC DEVICE CONTROLLER TRANSCIVER BD.			
FINISH	210-8324	D	8324	4		

"THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC."



NOTES: 1. UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTORS ARE 1/4W, 5%, EXPRESSED IN OHMS.  
 ALL CAPACITORS ARE .047UF, P/N 300-1966  
 Q1, 3, 5, 7, 9, 11, 13, 15 ARE MPS6512.  
 Q2, 4, 6, 8, 10, 12, 14, 16 ARE MPS6510.

<b>WANG</b> LABORATORIES, INC. BELL MASS., U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN G. TYNES	5-24-62	E ENGR	
MATERIAL _____ MODEL NO. PH001F VS15/25/100 SEE ENGR SPECIFICATIONS NO. 10-203		CHK		M ENGR	
		E C CONTROL		MFG ENGR	
FINISH _____ <small>ALL DIM. AS NOTED          UNLESS OTHERWISE SPECIFIED          DIMENSIONS ARE IN INCHES</small>		TITLE		ASYNC DEVICE	
		210-8324-R2		C 8324 3	
SCALE 1/1		SHEET 1 OF 1		WANG PART NUMBER	

**WANG**

LABORATORIES, INC

---

ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851. TEL (617) 459-5000. TWX 710 343-6769 TELEX 94-7421

PRINTED IN U.S.A.

**END**