

VS-85/90/100 Computer Systems Schematics Manual

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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.

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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.

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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.		
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1.	1 thru 6	1 thru 7
2.		
3.		
4.		

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



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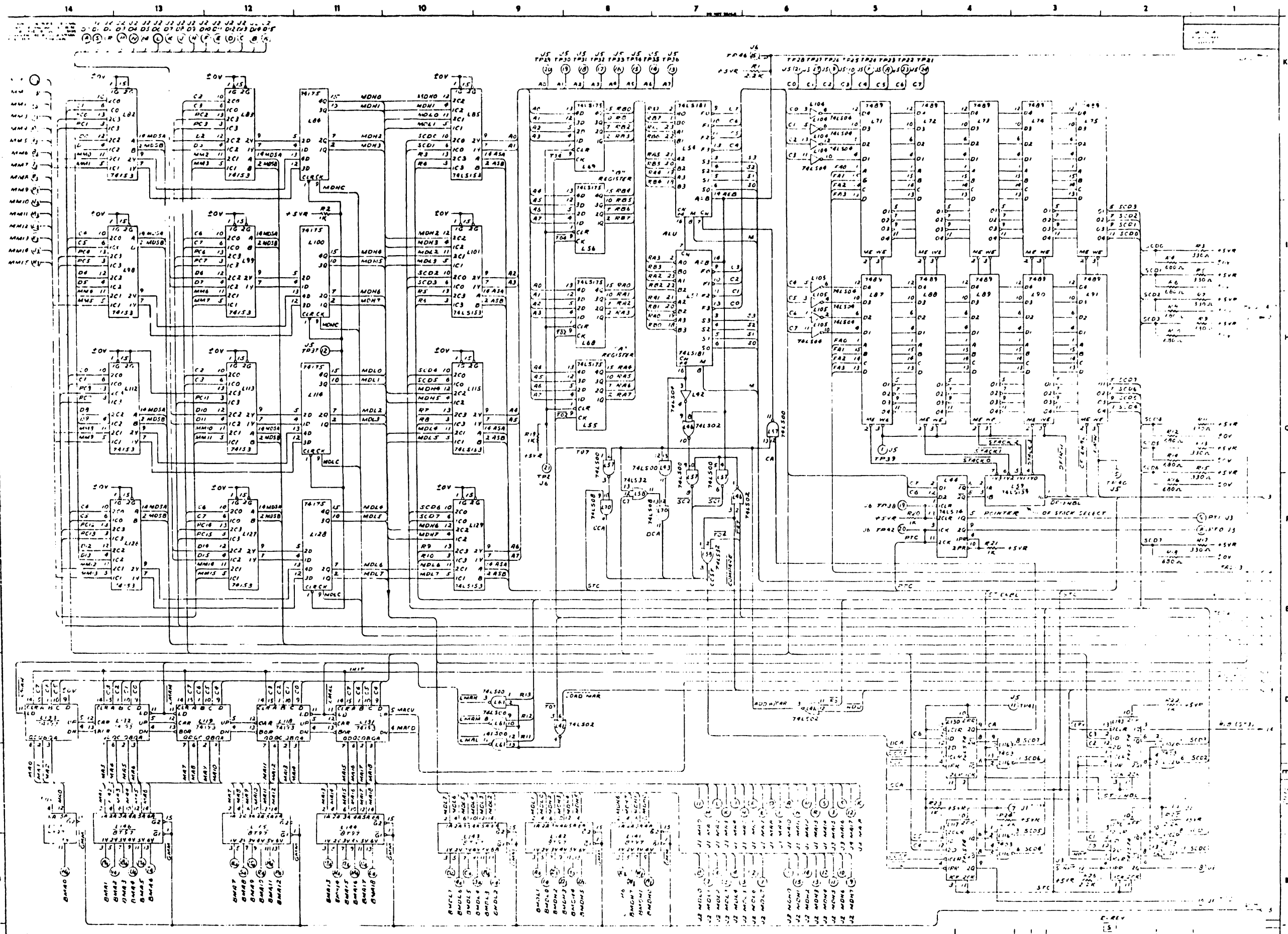
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The following electrical schematics are the latest revisions available at the time of publication of this manual. Periodically, as changes, additions, or deletions occur, updates to this manual will be made available to field personnel.



WANG		DATE	REV
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34" 22" 17" 11" 8.5" 11" 17" 22" 34" 34" A1

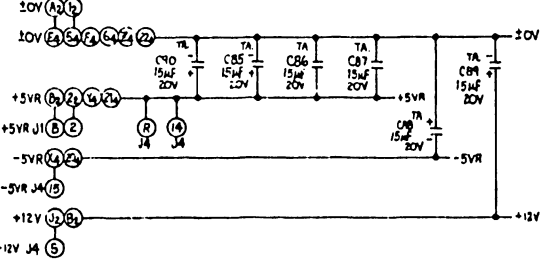
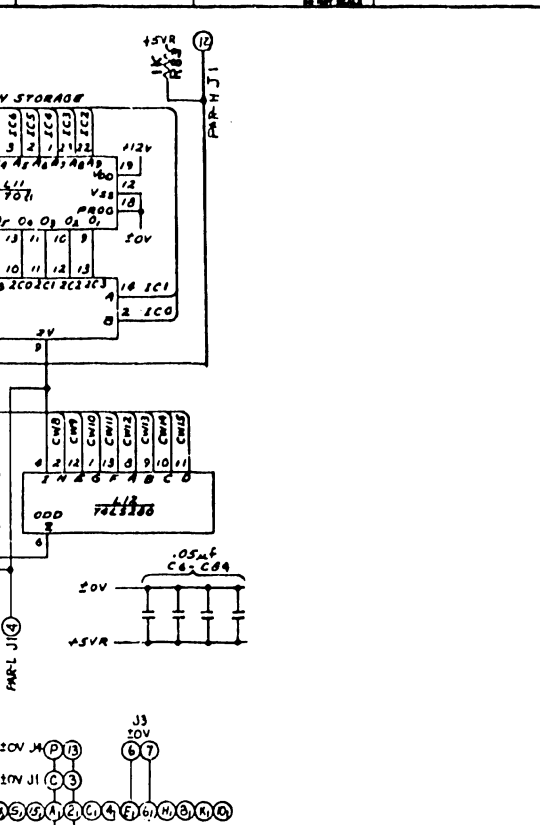
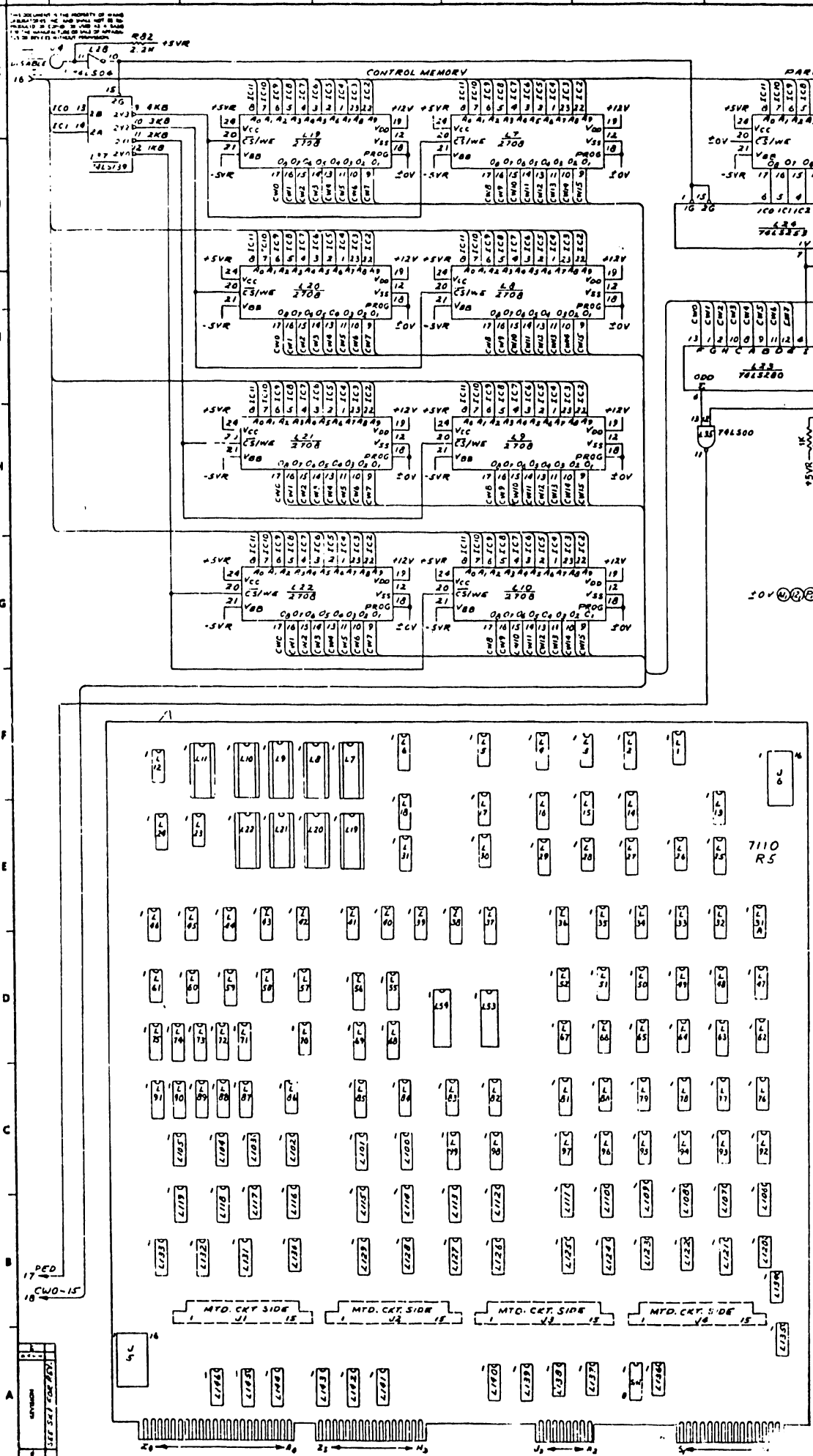
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VARIATION CHART

210 + 209 + 377 OR 378

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2200VS TEST#8	7110	7110J					378-2322			378-2323		376-0219	376-0219
2200VS TEST#9	7110	7110K			378-2327	378-2326	378-2328			378-2326	378-2324	376-0219	376-0219
2200VS TEST#10	7110	7110L			378-2332	378-2330	378-2335			378-2331	378-2329	376-0219	376-0219
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	7110	7110AA	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	377-0317	376-0219	376-0219
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VS-100	7110	7110AF	378-3160	378-3158	378-3156	378-3154	378-3161	378-3159	378-3157	378-3155	378-3153	376-0219	376-0219
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VS-100	7110	7110AH			378-3123-A1	378-3121-A1	378-3123-A1			378-3122-A1	378-3120-A1	376-0219	376-0219
VS-100	7110	7110AI			378-3123-A1	378-3121-A1	378-3123-A1			378-3122-A1	378-3120-A1	376-0219	376-0219
VS-100	7110	7110AJ			378-3123-A1	378-3121-A1	378-3123-A1			378-3122-A1	378-3120-A1	376-0219	376-0219
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VS-100	7110	7110AL			378-3123-A1	378-3121-A1	378-3123-A1			378-3122-A1	378-3120-A1	376-0219	376-0219
VS-100	7110	7110AM			378-3123-A1	378-3121-A1	378-3123-A1			378-3122-A1	378-3120-A1	376-0219	376-0219

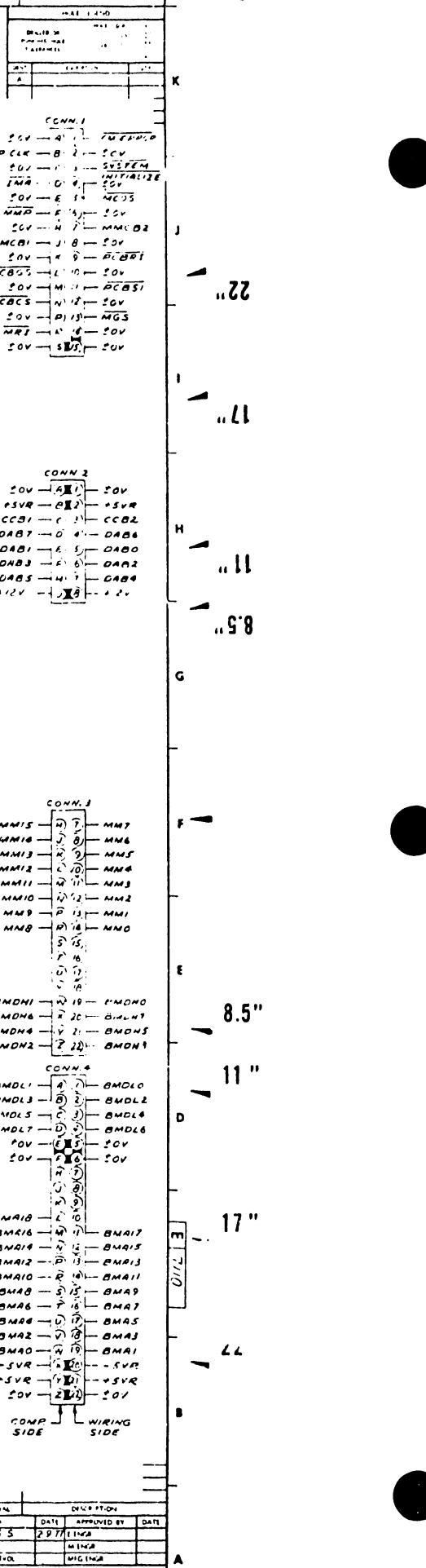
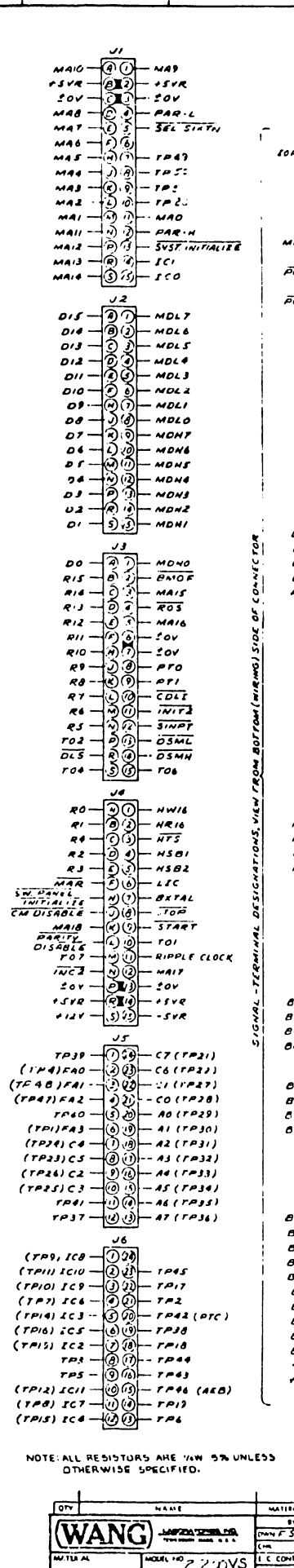
WANG		JAMES WANG CO.		BY	DATE	APPROVED BY	DATE
MODEL NO.		2200VS		DATE	7/10	DATE	7/10
TITLE		I.O.R. PROCESSOR		DATE	7/10	DATE	7/10
DRAWN BY		SEE CHART		DATE	7/10	DATE	7/10
CHECKED BY		E		DATE	7/10	DATE	7/10



IC LOCATION	TYPE	W.L. NO	TERM. FOR	TERM. FOR
			20V	VCC +5V
L1, 5, 17, 30	74LS03	376-0224	7	14
L2, 14, 27, 118, 131, 133, 36	74193	376-0053	2	16
L3, 15, 28, 42, 66, 104, 105	74LS04	376-0130	7	10
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, 33, 45, 52, 58, 93, 110	74LS32	376-0211	7	14
L24	74LS253	376-0223	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	74LS39	376-0226	8	16
L39, 11	74LS11	376-0225	7	14
L41, 94	74LS20	376-0210	7	14
L46, 51	74LS02	376-0208	7	14
L48, 63, 84, 100, 114, 128	74175	376-0119	8	16
L50, 79	74LS10	376-0209	7	14
L53, 54	SEE CHART		12	24
L60, 96	7432	376-0093	7	14
L81, 109, 140	74157	376-0002	8	16
L82, 93, 98, 99, 112, 113, 126, 127	74153	376-0044	8	16
L85, 101, 115, 129	74LS153	376-0156	8	16
L102, 116	7403	376-0008	7	14
L108	7402	376-0044	7	14
L120	7414	376-0133	7	14
L121, 124, 139, 141-146	8797	376-0189	8	16
L122	7476	376-0006	7	14
L125	74174	376-0058	8	16
L134	7407	376-0036	7	14
L137, 138	74LS244	376-0188	7	14
L135	74532	376-0205	7	14

TYPE	IC LOCATION	SPARES
74LS04	L3	2
	L42	3
	L104	2
	L105	1
74LS32	L110	1
74LS08	L70	2
74LS74	L31A	1
74LS50	L35	2
74LS02	L51	1
74532	L135	3
8797	L121	2
7407	L136	1

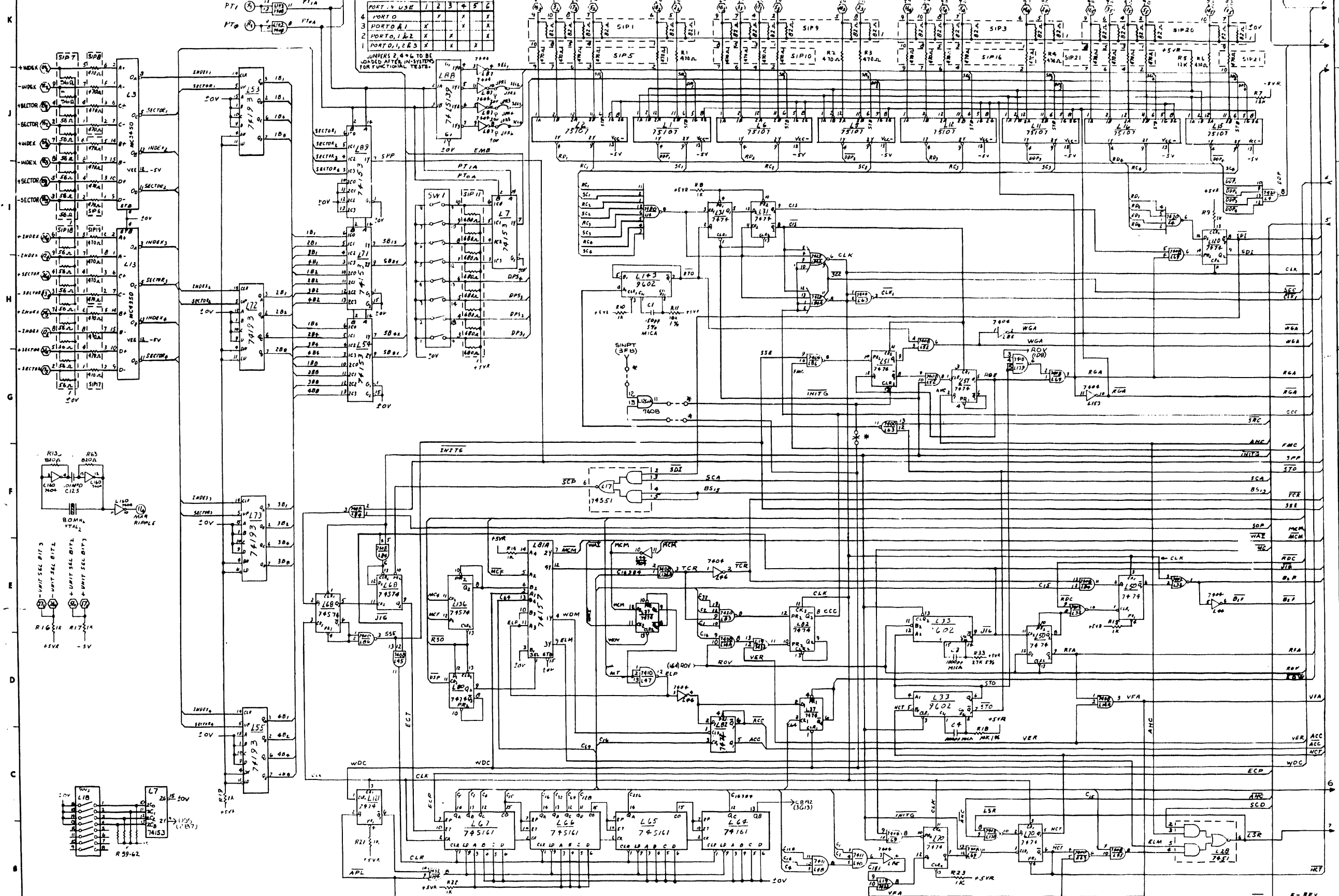
COMPONENT	W.L. NO.
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R2, 19, 23, 27, 28, 30, 39, 59, 60, 62, 64, 68, 69, 74, 77, 79, 80, 83, 87	330-3011
R3, 5, 7, 11, 13, 15, 17, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57	330-2034
R4, 6, 10, 12, 14, 16, 18, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58	330-2065
R7	330-3048
RCS, 59, 91	370-2023
R90	330-1811
C1, 2, 5	300-1460
C3, 6	300-1182
C4-84	300-1900
C85-90	300-4472
C91, C93	300-8048
8W, 1	325-1503
J5, 6	376-9C16
J1-8 COMM.	330-0007
L7, 11, 19-22	376-9007
C94	300-1047
AP3	330-3045



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

DATE	DATE	DATE	DATE
APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY
MODEL NO 7-210VS SEE CHART		TITLE TOP PROFESSOR	
DATE	DATE	DATE	DATE
3/11/77	3/11/77	3/11/77	3/11/77
35	35	35	35

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JUMPERS

PORT #	USE	1	2	3	4	5	6
1	PORT 0		X	X	X	X	X
2	PORT 1	X	X	X	X	X	X
3	PORT 2	X	X	X	X	X	X
4	PORT 3	X	X	X	X	X	X

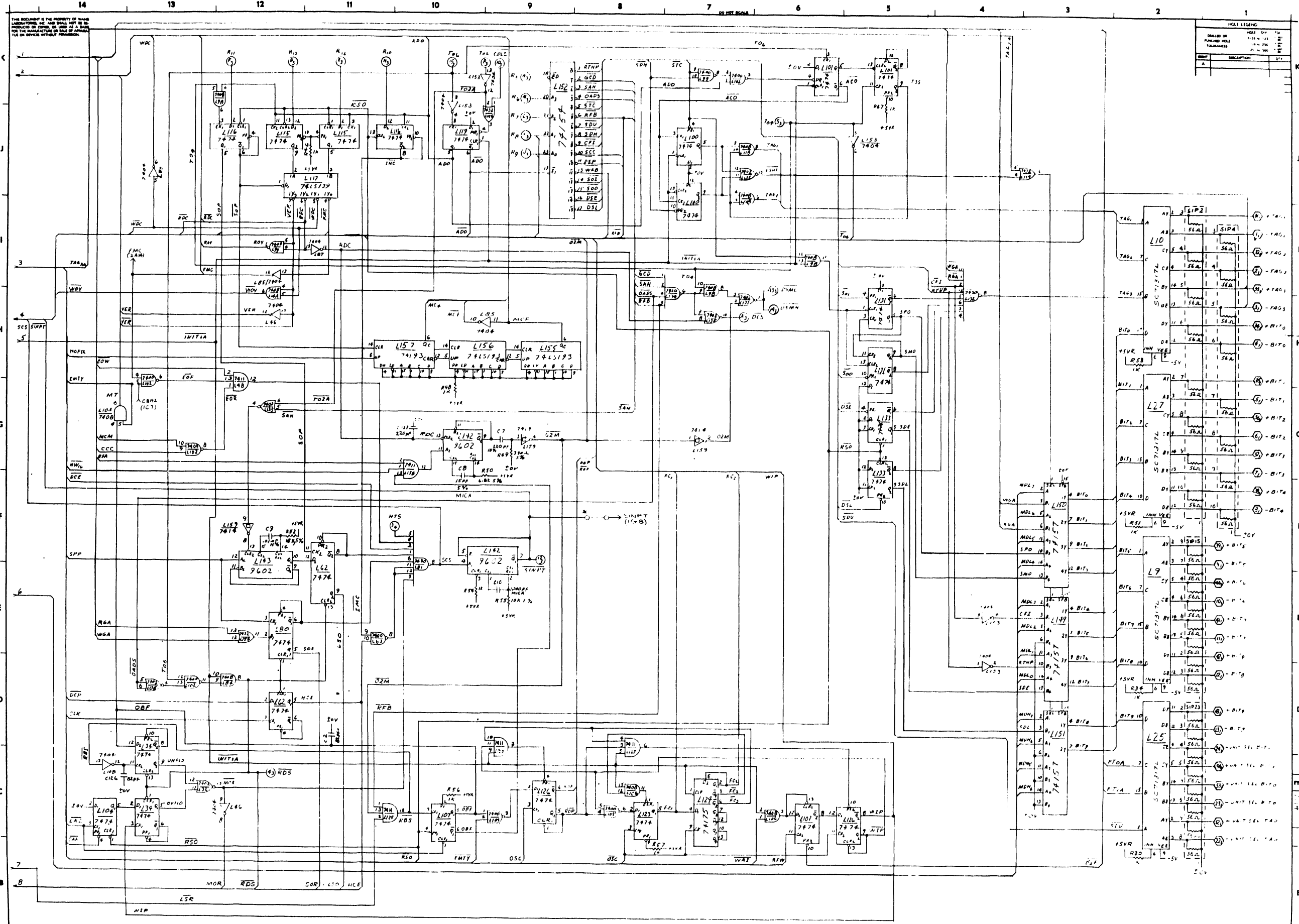
JUMPERS 2, 4 & 6 TO BE LOADED AFTER INITIAL TESTS.

REVISIONS

REV	DESCRIPTION	DATE	BY
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4	REVISED PER...
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22	REVISED PER...
23	REVISED PER...
24	REVISED PER...
25	REVISED PER...

WANG PART NO. ITEM QTY NAME MATERIAL DESCRIPTION BY DATE APPROVED BY DATE

WANG		LABORATORY		2200VS		LARGE DISK DEVICE ADAPTER	
210-7114		E 7114		25			



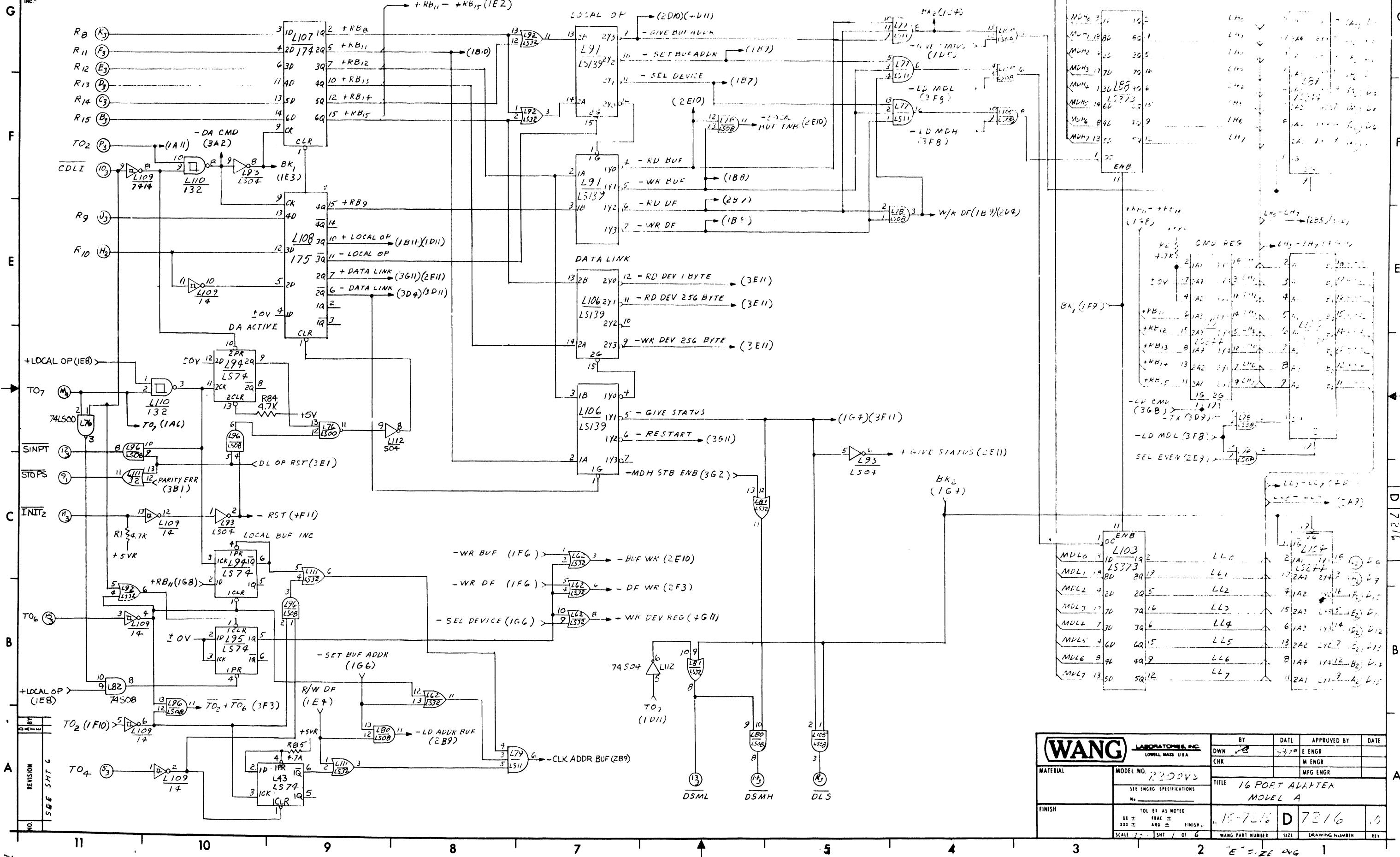
HEAD LEGEND		
DRILLED OR	HEAD	100
PLATING HEAD	100	100
TOLERANCES	100	100
UNIT	DESCRIPTION	QTY
A		

* ADDED PER ECO# 27150

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DATE	DESCRIPTION
2200VS						
WANG CORPORATION						
MODEL NO. 2200VS						
TITLE: LARGE DISK ADAPTER						
DATE: 11/14/75						
DRAWN BY: [Signature]						
CHECKED BY: [Signature]						
E.C. CONTROL: [Signature]						
SCALE: 1:1						
SHEET: 3 OF 3						

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DO NOT SCALE



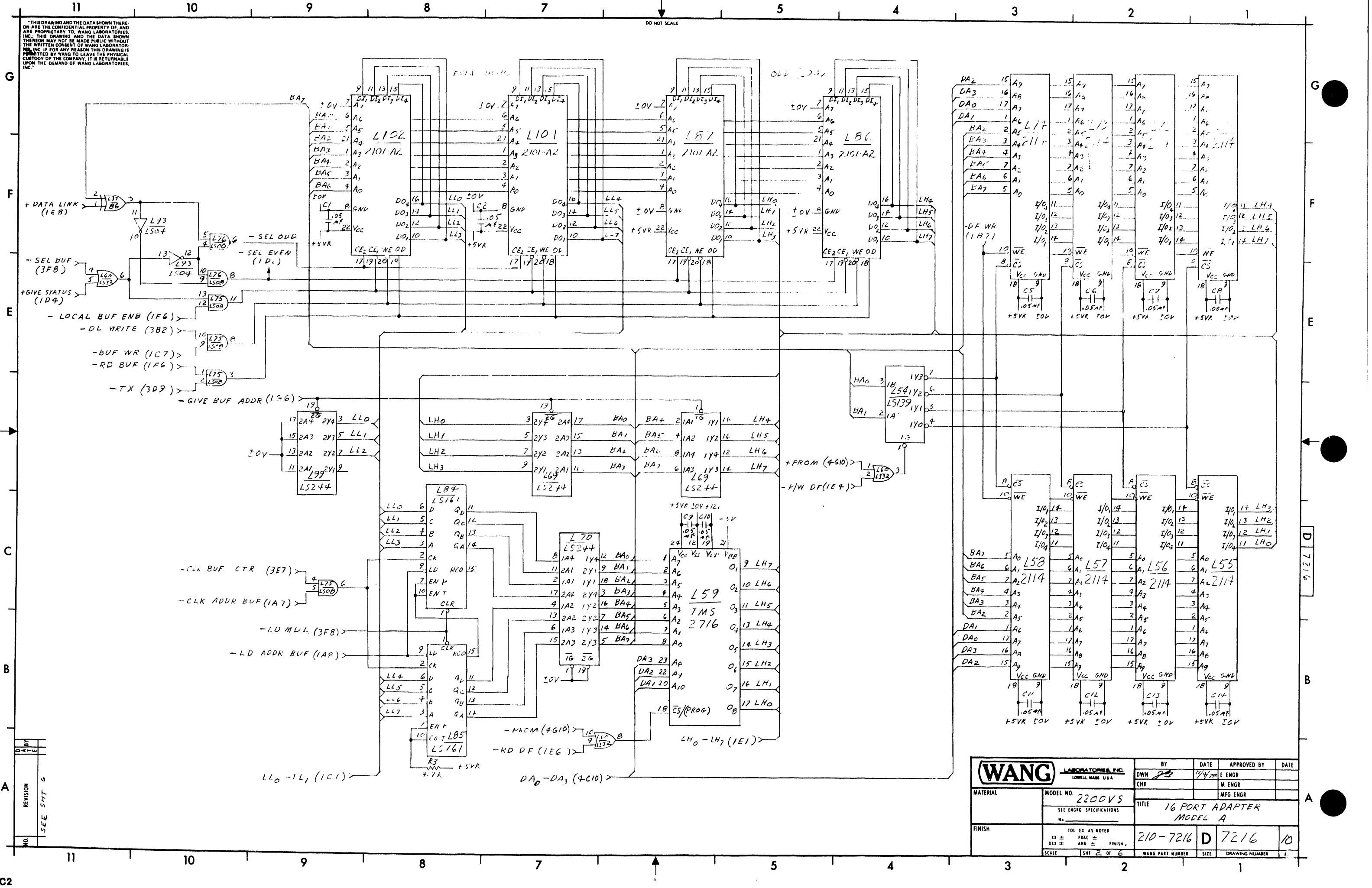
WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 7-7-72	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. 220043	CHK CHK		M ENGR	
	SEE ENGR SPECIFICATIONS			MFG ENGR	
FINISH	TOL EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	TITLE 16 PORT ADAPTER MODEL A			
	SCALE 7-11 SMT 1 OF 6	WANG PART NUMBER	SIZE	DRAWING NUMBER D 7216	REV 10

MDL0	3	10	2	LL0	21A	11	18	D0
MDL1	19	80	19	LL1	17	24	24	D1
MDL2	4	20	5	LL2	9	12	16	D2
MDL3	17	70	16	LL3	15	23	23	D3
MDL4	7	30	6	LL4	6	13	14	D4
MDL5	4	60	15	LL5	13	22	22	D5
MDL6	9	40	9	LL6	8	17	17	D6
MDL7	13	50	12	LL7	11	21	21	D7

REVISION	1 SEE SMT 6
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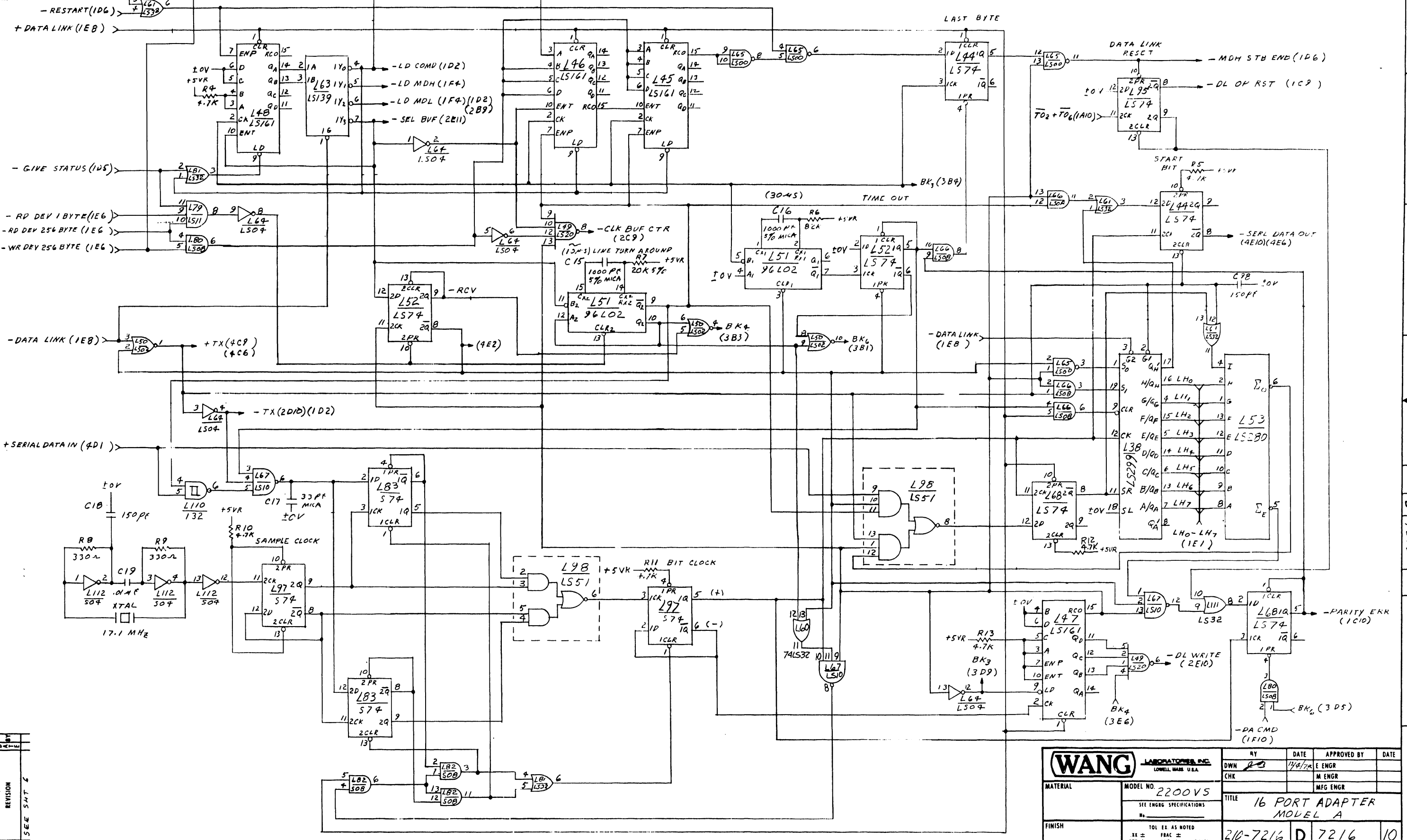
DO NOT SCALE



NO.	REVISION	BY	DATE

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 1/4/78	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO. 2200VS	CHK CHK		MFG ENGR	
SEE ENGRG SPECIFICATIONS		TITLE 16 PORT ADAPTER MODEL A			
FINISH	TOL EX AS NOTED XX ± FRACTION ± FINISH XXX ± ANG ± FINISH	210-7216	D 7216	10	
SCALE SMT 2 OF 6		WANG PART NUMBER	SIZE	DRAWING NUMBER	

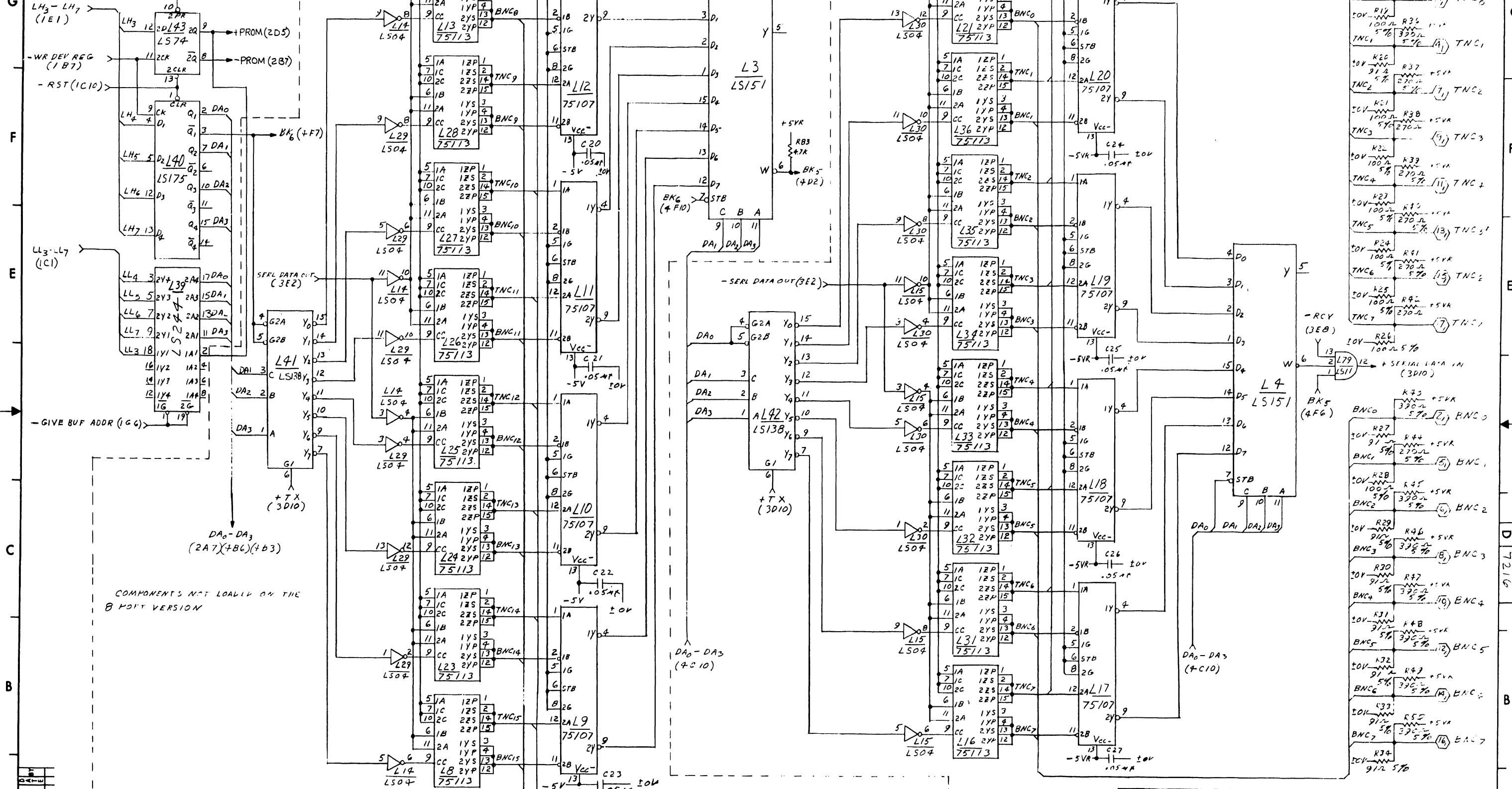
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NO.	REVISION	SEE SHT.

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	1/4/72	E ENGR	
MODEL NO. 2200VS		CHK		M ENGR	
SEE ENGRG SPECIFICATIONS				MFG ENGR	
FINISH		TITLE			
		16 PORT ADAPTER			
		MODEL A			
TOL. AS NOTED		210-7216	D	7216	10
XX ±					
XXX ±					
SCALE 1/8" = 1"					
SHT 3 OF 6					

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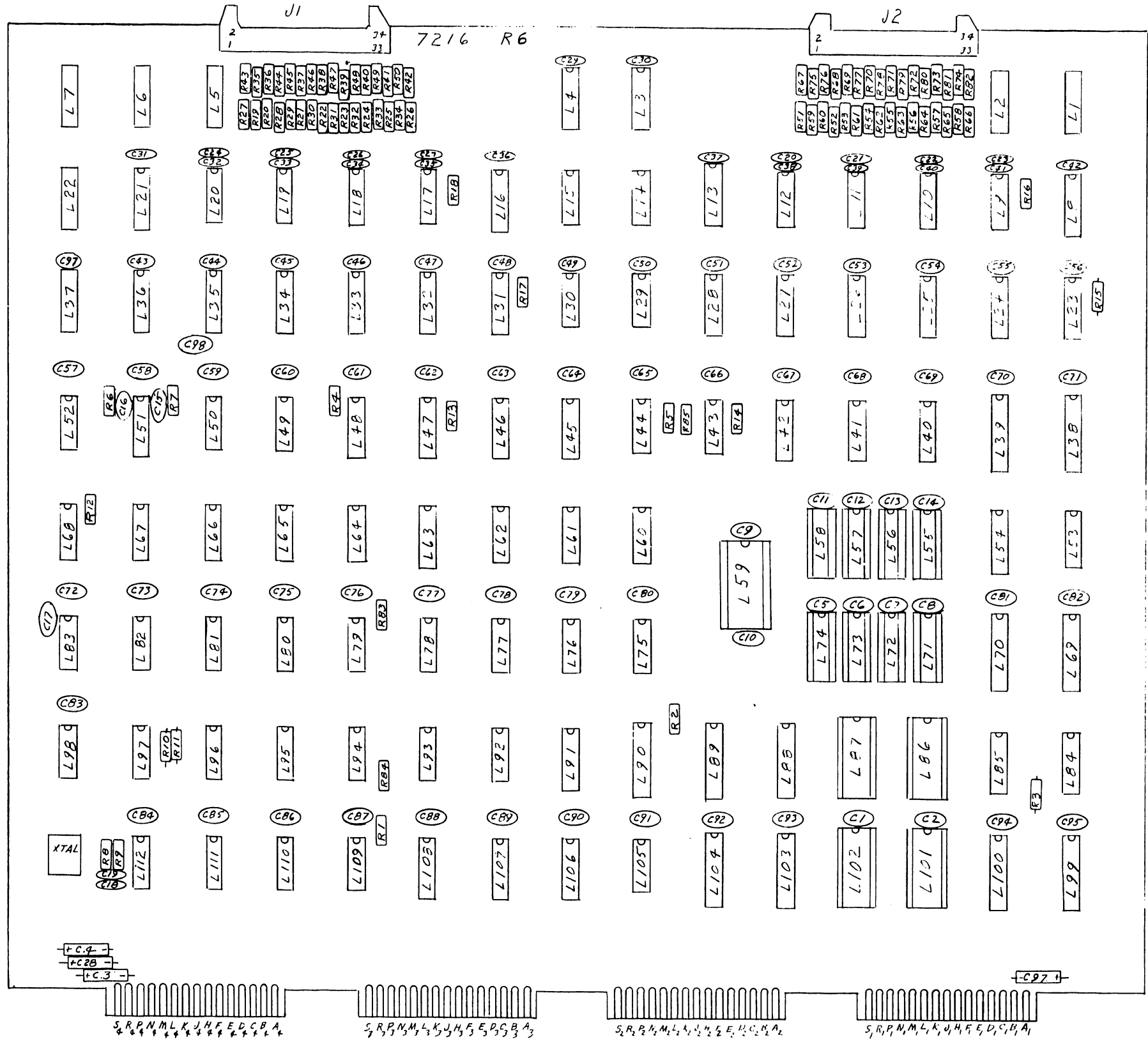


REVISION	DATE	BY	APPROVED BY
1			

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	2/1/78	E ENGR	
MODEL NO. 210025		CHK		M ENGR	
SEE ENGR SPECIFICATIONS				MFG ENGR	
FINISH		TITLE			
TOL. EX. AS NOTED		16 PORT ADAPTER			
XX ±		MODEL A			
FRAC ±		210-7216			
ANG ±		D			
SCALE		7216			
SMT 4 OF 6		10			
WANG PART NUMBER		SIZE			
DRAWING NUMBER		REV			

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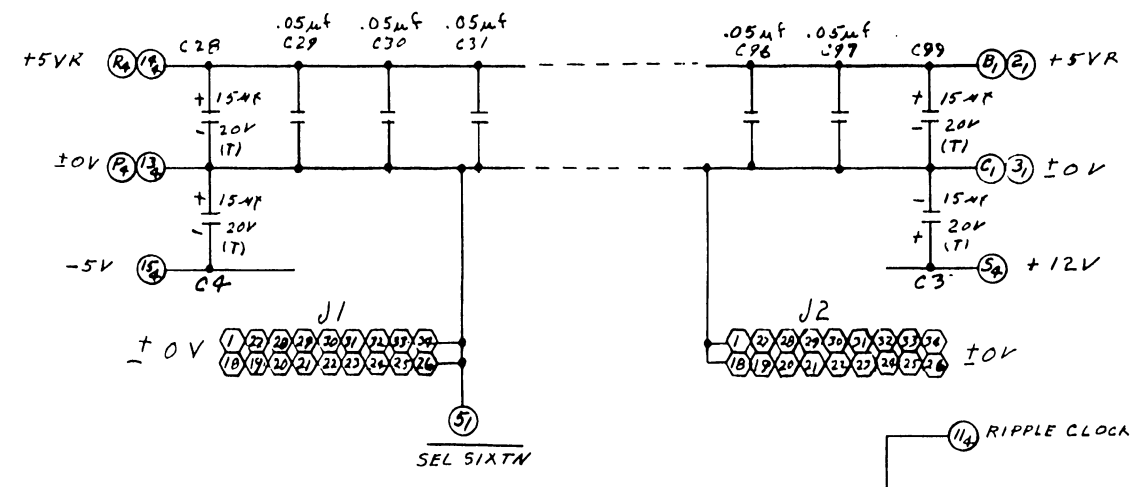
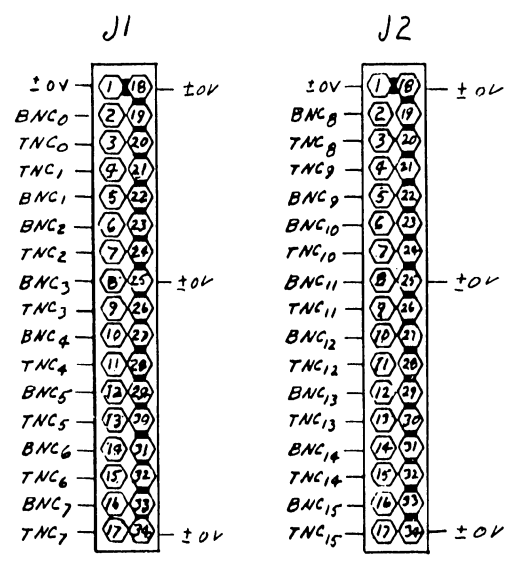
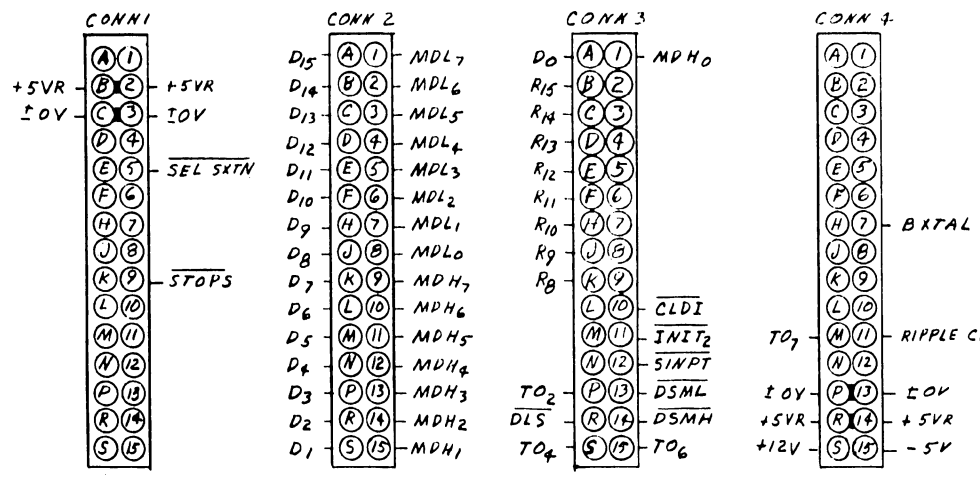
DO NOT SCALE



NO.	REVISION
	SEE SMT C

WANG 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 ENGR SPECIFICATIONS		TITLE 16 PORT ADAPTER MODEL A			
FINISH		210-7216		D 7216	10
SCALE 1/4" = 1"		WANG PART NUMBER		SIZE	DRAWING NUMBER

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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-AI	
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	C20,23,30,37-43,50-56,60
C15,16	300-5006	1000PF 5% MICA	
C17	300-5016	33PF 500V MICA	
C18,98	300-1150	150PF 500V CER	
C19	300-1903	.01μF 5% CER	
C3,4,28,99	300-4022	15μF 20VIT	
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	
X1	321-0018	17.1MHz	

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
DB - DIS	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
RB,11-15	1 G 11
R9,10	1 E 11
RIPPLE CLOCK	6 B 7
SEL SKTN	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	REVISED PER ECN # 1060, 10990	12-4-70	BR		5-27-82
2	REVISED PER ECN # 1107	5-15-79	BR		
3	REVISED PER ECN # 11233	5-18-79	BR		
4	REVISED PER ECN # 12816	10-4-79	BR		
5	REVISED PER ECN # 12999	11-6-79	BR		
6	REVISED PER ECN # 14332	2-20-80	BR		
7	REVISED PER ECN # 14370	4-5-80	BR		
8	REVISED PER ECN # 14382	4-27-81	BR		
9	REVISED PER ECN # 15783	7-9-81	BR		
10	REVISED PER ECN # 23221	5-27-82	BR		

WANG LABORATORIES, INC.
LOWELL, MASS. U.S.A.

BY: DWN
CHK: F.A.R.

DATE: 1/4/76
5/29/79

APPROVED BY: E ENGR E WILDE
M ENGR

DATE: 5/29/79

MODEL NO. 2200VS
SEE ENGR SPECIFICATIONS

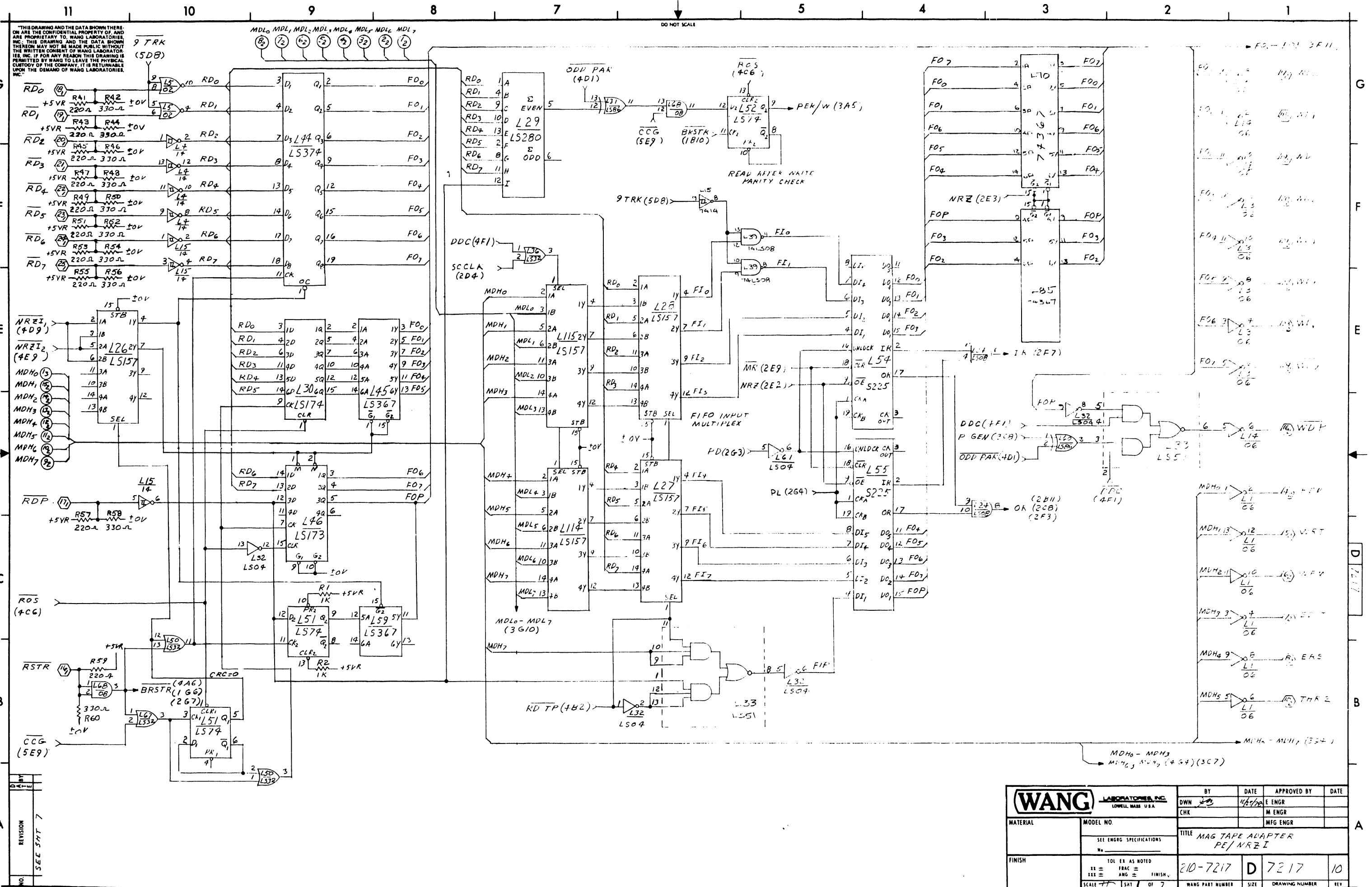
TITLE: 16 PORT ADAPTER MODEL A

FINISH: TOL EX AS NOTED
XX ± FRAC ±
XXX ± ANG ± FINISH

SCALE: 1/8" = 1" SHT 6 OF 6

WANG PART NUMBER: 210-7216
SIZE: D
DRAWING NUMBER: 7216
REV: 10

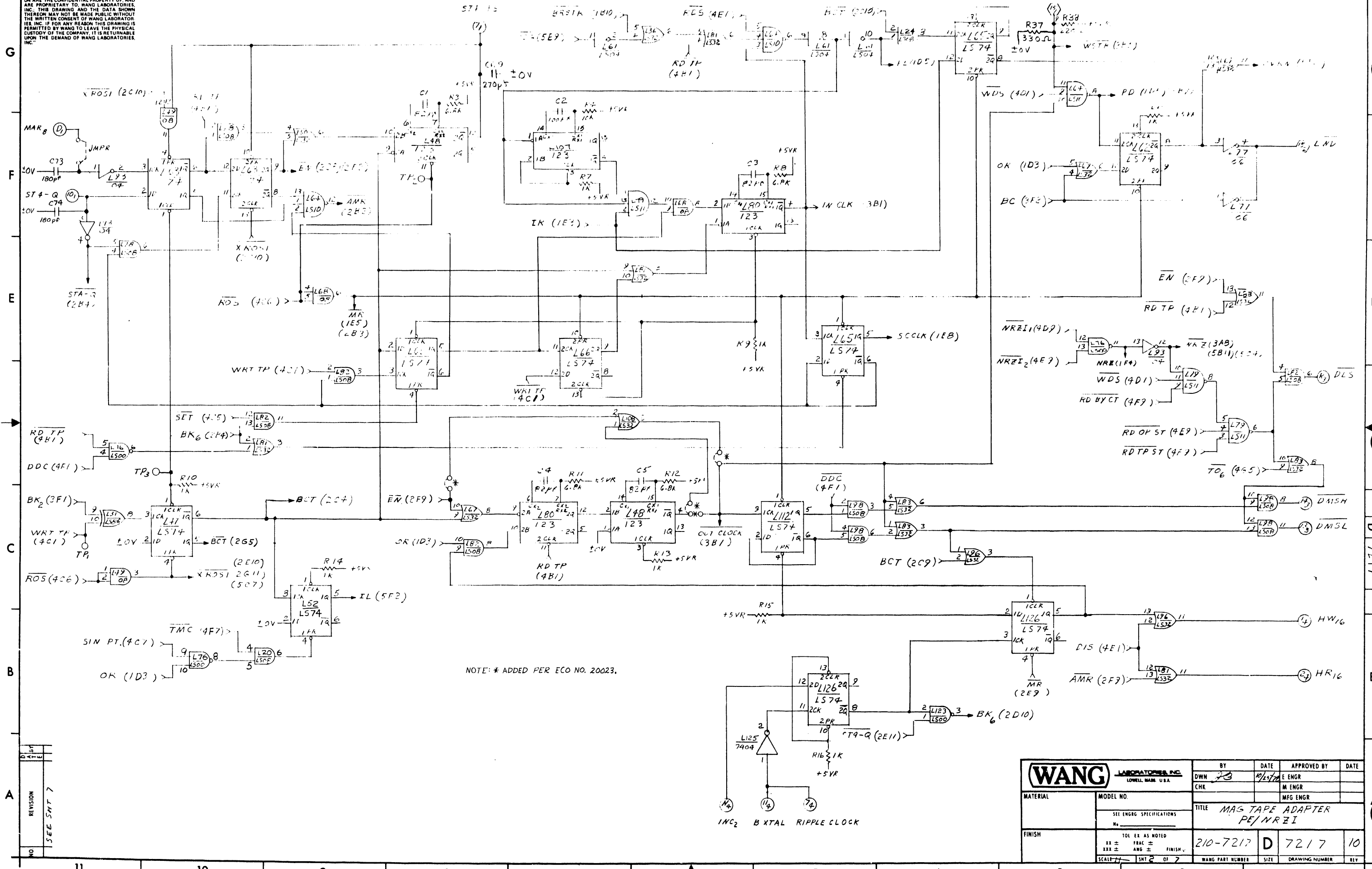
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WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 4/1/72	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO.		TITLE MAG TAPE ADAPTER PE/NRZ I			
FINISH		210-7217 D 7217 10			
SCALE 1/1		WANG PART NUMBER SIZE DRAWING NUMBER REV			

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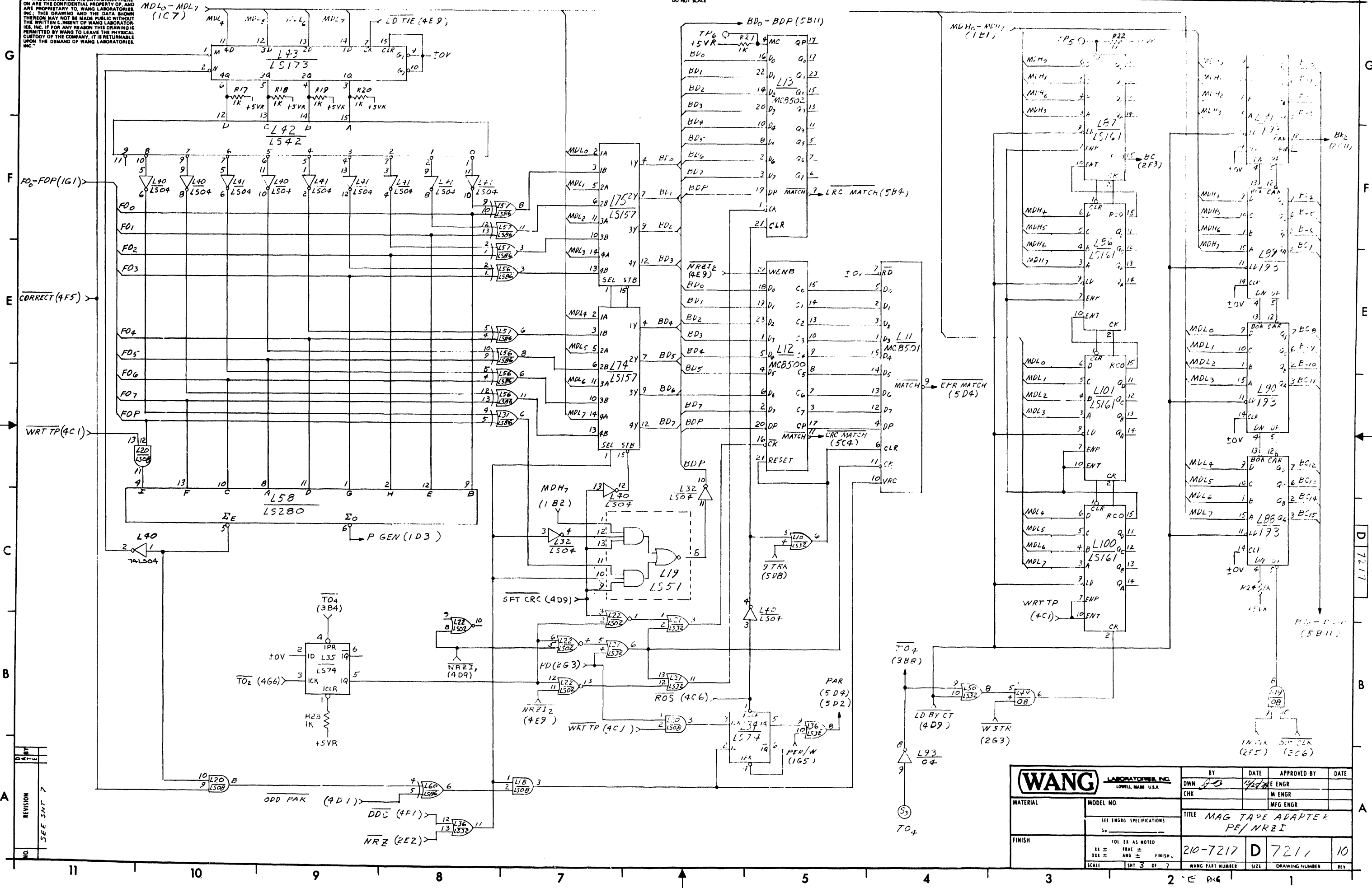
NOTE: * ADDED PER ECO NO. 20023.

NO.	REVISION	DATE	BY
1	SEE SH 7		

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN JB	DATE 10/2/77	APPROVED BY E ENGR	DATE
MATERIAL	MODEL NO.	CHK		M ENGR	
SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/NRZI			
FINISH	TOL ER AS NOTED	210-7217		D	7217
	XX ± FRAC ±	WANG PART NUMBER		SIZE	DRAWING NUMBER
	XXX ± ANG ± FINISH	SCALE 1/1		SHT 2 OF 7	REV

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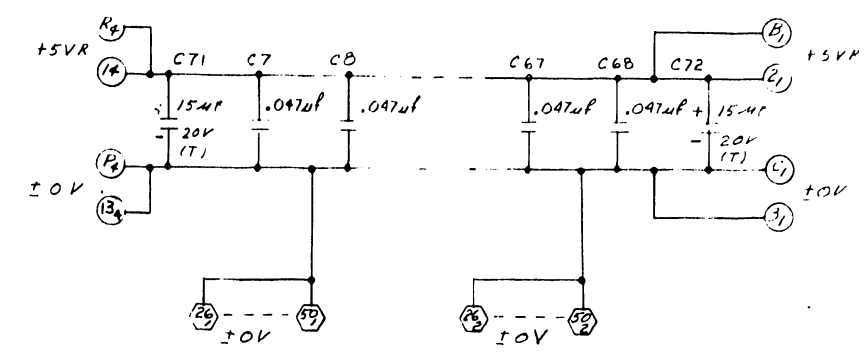
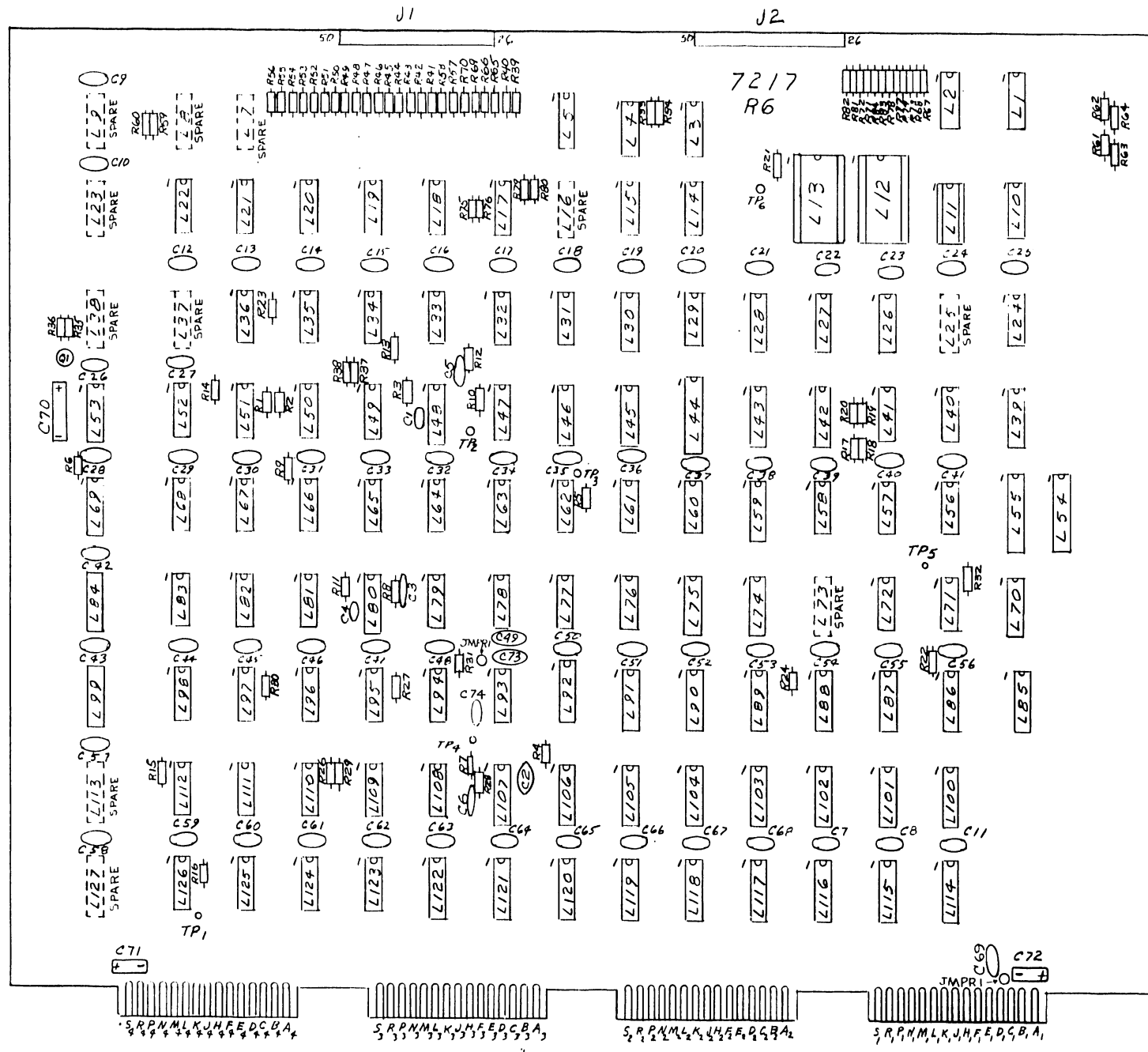
DO NOT SCALE



WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 4/27/71	APPROVED BY M ENGR	DATE
MATERIAL		CHK		MFG ENGR	
MODEL NO. SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/NRZI			
FINISH 101 EX AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH		210-7217		D	7211
SCALE SMT 3 OF 7		WANG PART NUMBER		SIZE	DRAWING NUMBER
				REV	10

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DO NOT SCALE



NO	REVISION	DATE	BY

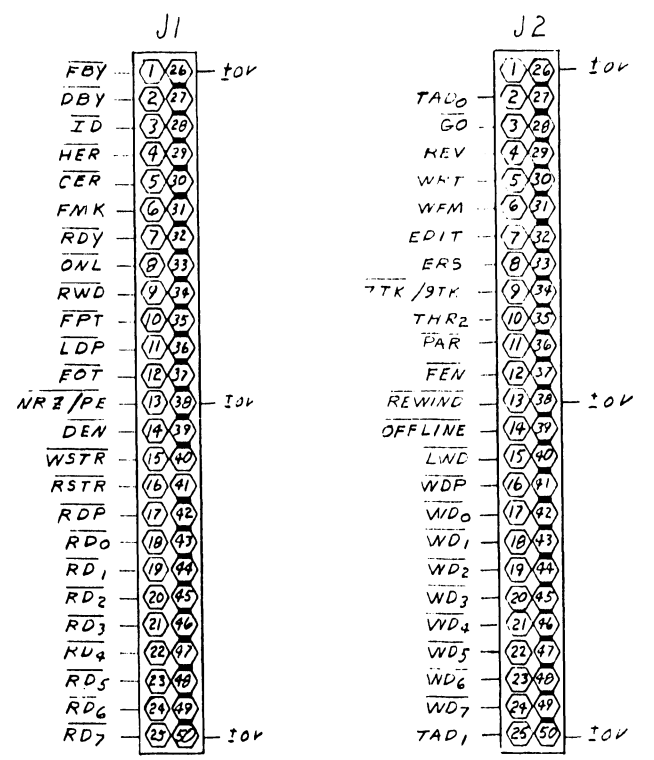
WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 4/10/70	APPROVED BY E ENGR	DATE
MATERIAL		CHK		M ENGR	
MODEL NO. SEE ENGR SPECIFICATIONS		TITLE MAG TAPE ADAPTER PE/MRZI			
FINISH XX ± FRAC ± XXX ± ANG ± FINISH		210-7217A	D	7217	10
SCALE 7/8		SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

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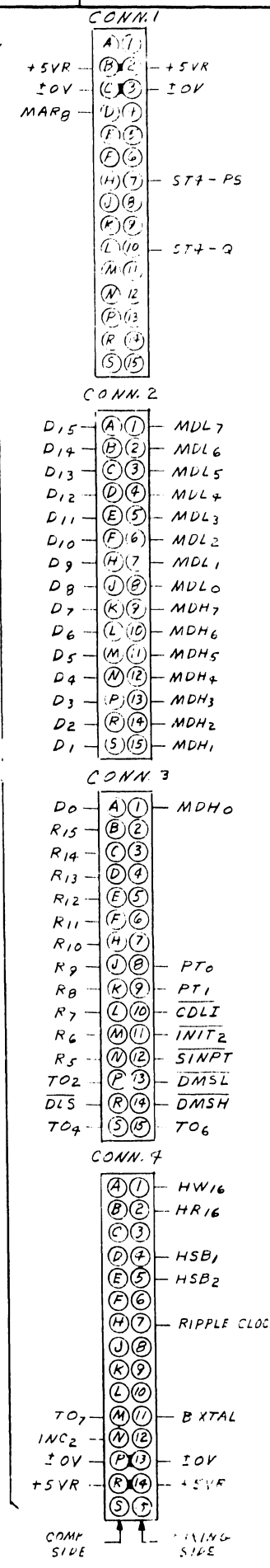
DO NOT SCALE

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
L34,35,47,54,58,62,63,65,66,71,72,94,95,97,110-112,126	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		
			L35	74LS74	1
			L62		1
L10		3	L53	9602	1
L29	74LS32	1	L59	74LS367	1
L108		1	L60	74LS86	2
L15	7414	2	L31	74LS04	2
L17		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-FK, 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	220-ohm, 1/4W, 10%
R35	330-5068	680K
C1,3-5	300-1082	82 PF 500V CER
C2	300-1100	100 PF 500V CER
C71,72	300-4022	15-4K, 20V, TANT
C7-68	300-1966	.047uF, 50V CER
C69	300-1270	270 PF 500V
C70	300-4019	33uF, 15V, TA
C6	300-1906	.001uF 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	330-ohm, 1/4W, 10%
Q1	315-1005	2N2222A
J1,2	350-1027	57-40500
C73,74	300-1180	180 PF 500V CER



MNEMONIC	COORDINATE
B XTAL	2A5
CDLI	4G6
CER	5G9
D0-D1	5E1
DR-D12	5A7
DBY	4C11
DEN	4G1
DLS	2D1
DMSH	2C1
DMSL	2C1
EDIT	1C1
FOT	5G4
ERS	1B1
FBY	5G7
FEN	4A6
FMK	5G8
FPT	5C11
GO	4A7
HER	5G9
HR16	2B1
HSB1-HSB2	5G2
HW16	2B1
ID	5E11
INC2	2A6
INIT2	4C11
LDP	5G5
LWD	2F1
MARG	2F11
MDH0-MPH7	1D11
MDL0-MDL7	1G9
NRZ/PE	5D11
OFFLINE	4G10
ONL	5G7

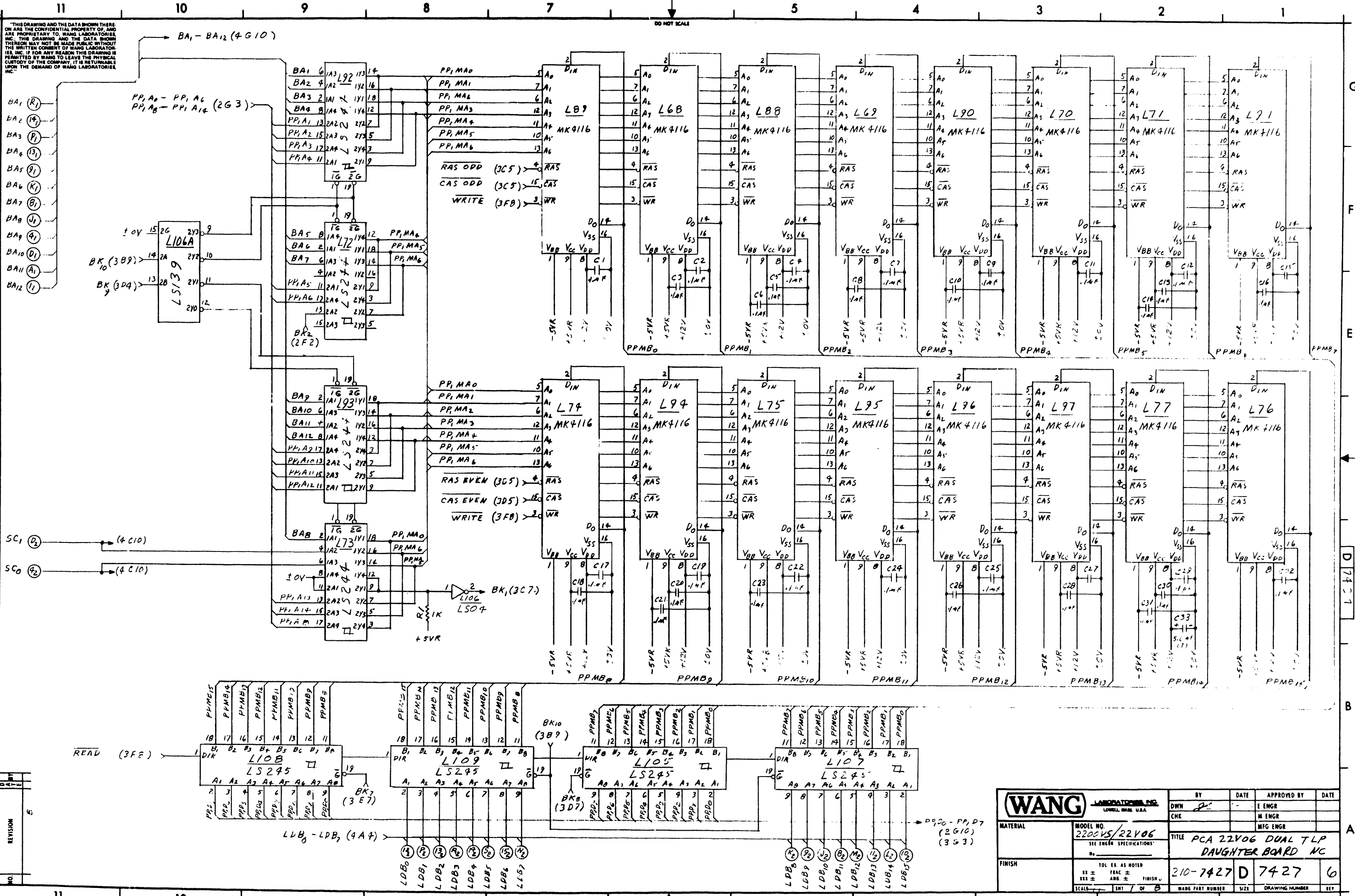
MNEMONIC	COORDINATE
PT0	4E11
PT1	4E11
PAR	1F1
R5-R15	4F11
RD0-RD7	1F11
RDP	1D11
RD1	5G6
REWIND	4G10
REV	1D1
RIPPLE CLOCK	2A5
RSTR	1B11
RWD	5G5
SINPT	4A5
ST4-PS	2G8
ST4-G	2F11
TAD0	4A8
TAD1	4A8
THR2	1B1
TO2	4G6
TO4	3A4
TO6	4G5
TO7	4G7
WD0-WD7	1F1
WDP	1D1
WFM	1C1
WRT	1C1
WSTR	2G3
TTK/9TK	5D11

E-KEV
6

NO.	REVISION	DATE	BY	DATE	APPROVED BY	DATE
1	ORG. PER E 549	7-27-79	...	...	...	...
2	APP'D. 3.11.79	...	...	...	...	...
3	REV. PER EON	...	...	...	...	...
4	REV. PER EON	...	...	...	...	...
5	REV. PER EON	...	...	...	...	...
6	REV. PER EON	...	...	...	...	...
7	REV. PER EON	...	...	...	...	...
8	REV. PER EON	...	...	...	...	...
9	REV. PER EON	...	...	...	...	...
10	REV. PER EON	...	...	...	...	...

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: [Signature]	DATE: 7-27-79	APPROVED BY: [Signature]	DATE: 7-27-79
MATERIAL:	MODEL NO.:	TITLE: 1/4" TAPE ADAPTER		MFG ENGR:	
FINISH:		210-7217A		7217	10
SCALE: 1/4" = 1"		SHEET 7 OF 7		WANG PART NUMBER:	SIZE: D

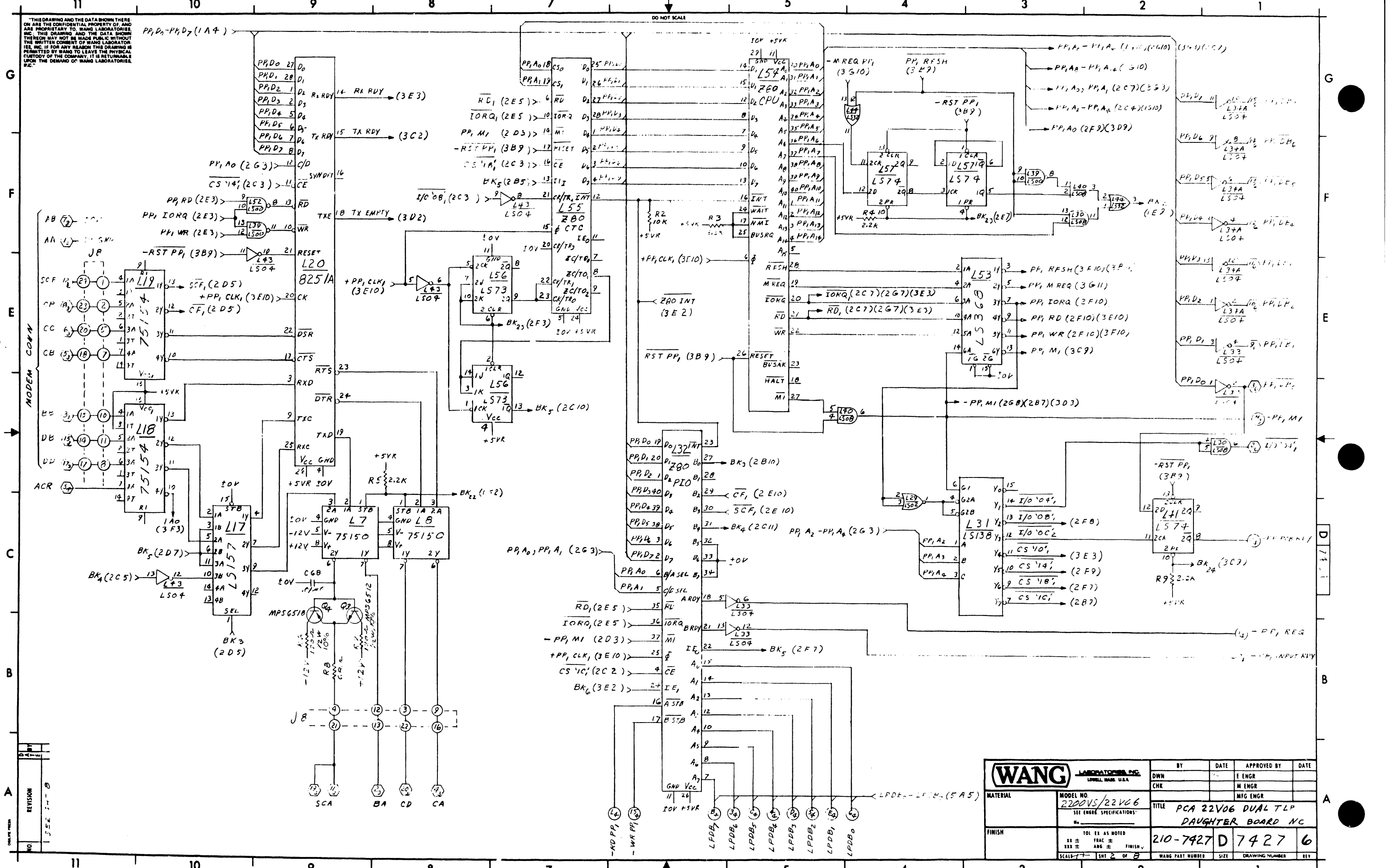
THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE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



NO.	REVISION

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		CHK		E ENGR	
MATERIAL		MODEL NO.	TITLE		
		2206VS/22V06	PCA 22V06 DUAL TLP DAUGHTER BOARD NC		
FINISH		TOI EX. AS NOTED			
		XX ± FRAC ±			
		XXX ± ANG. ± FINISH			
SCALE		1/8" = 1" OF B	WANG PART NUMBER	SIZE	DRAWING NUMBER
			210-7427	D	7427 6

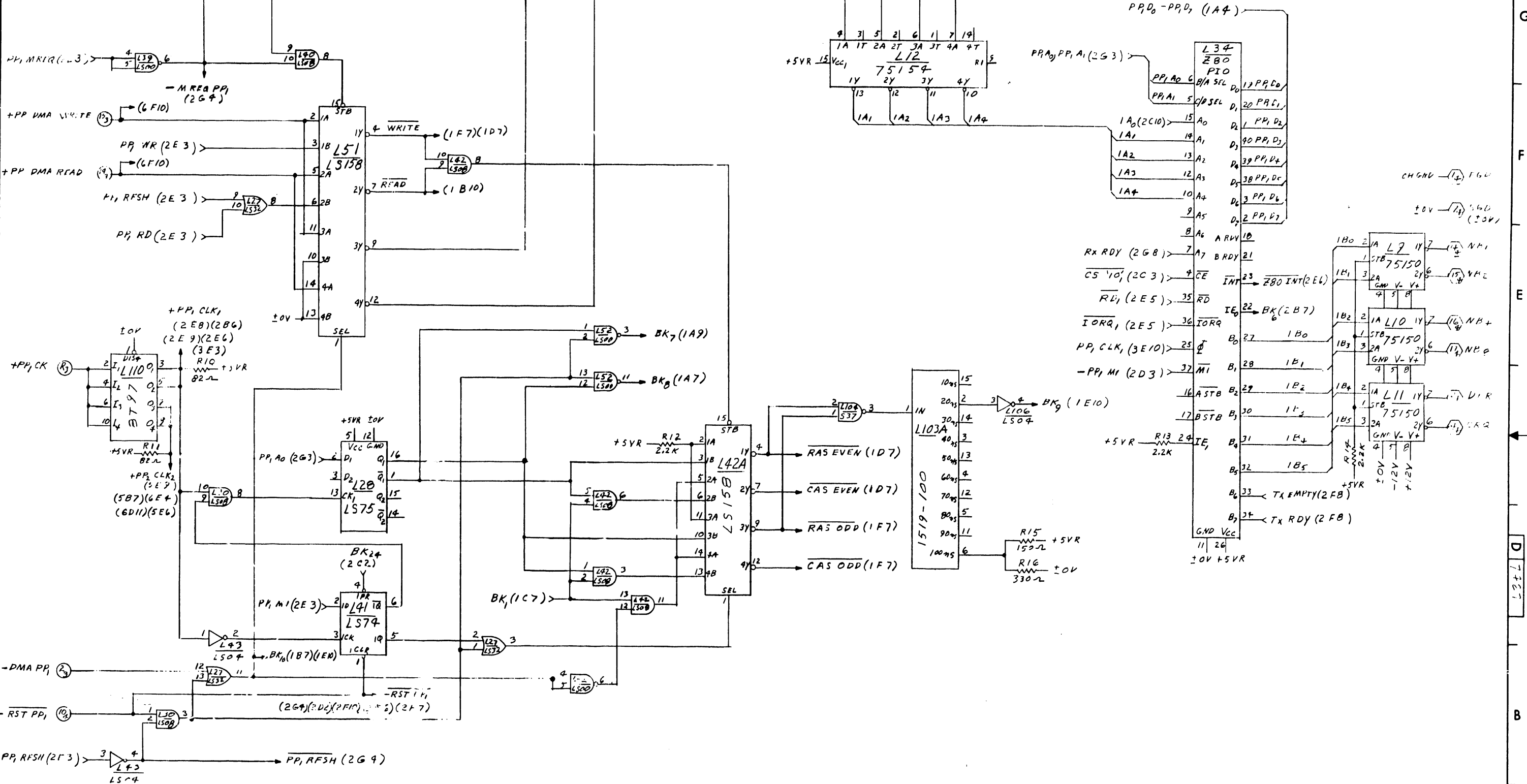
THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF, AND ARE PROPRIETARY TO, WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE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



NO.	REVISION
1	352 3-8

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN		E ENGR	
MODEL NO. 2200VS/22VC6 SEE ENGR. SPECIFICATIONS		CHK		M ENGR	
FINISH		TITLE PCA 22V06 DUAL TLP DAUGHTER BOARD NC		MFG ENGR	
TOL EX AS NOTED XX ± TRAC ± FINISH XXX ± ANG ±		210-7427	D	7427	6
SCALE: 1-1 SMT 2 OF 8		WANG PART NUMBER	SIZE	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 PERMITTED BY WANG TO LEAVE THE PHYSICAL CUSTODY OF THE COMPANY, IT IS RETURNABLE UPON THE DEMAND OF WANG LABORATORIES, INC.

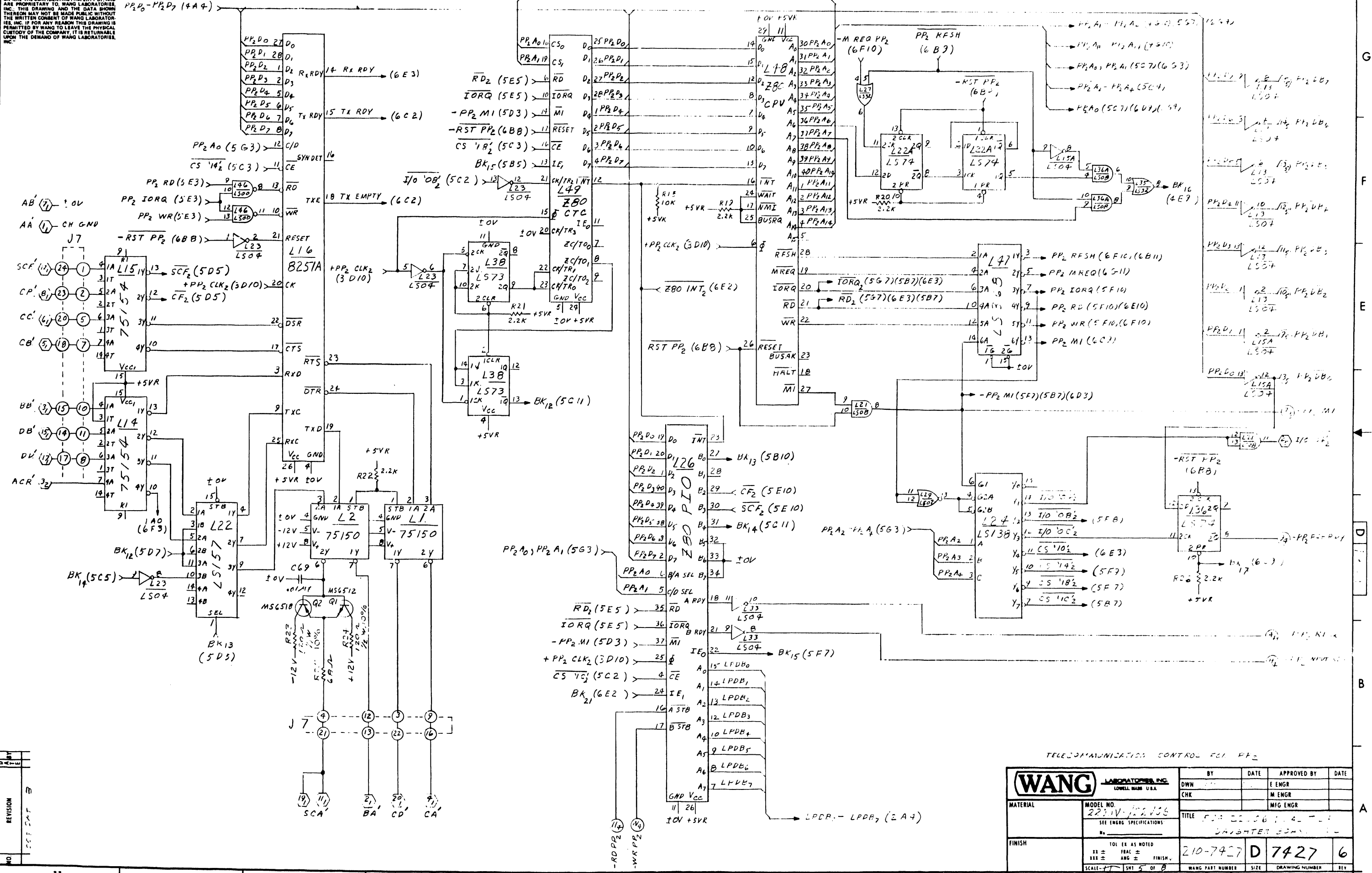


NO.	REVISION	DATE	BY	APPROVED BY
1	SEE INT 3			

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWH	DATE 10/1/66	APPROVED BY E ENGR	DATE
MATERIAL		CHK CNK		M ENGR	
MODEL NO. 2200VS/22106 SEE ENGR. SPECIFICATIONS		TITLE PCA 2206 DUAL T-P DAUGHTER BOARD 42			
FINISH		TOL. EX. AS NOTED .XX ± XXX ± SCALE 7/11		210-7427	D 7427 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

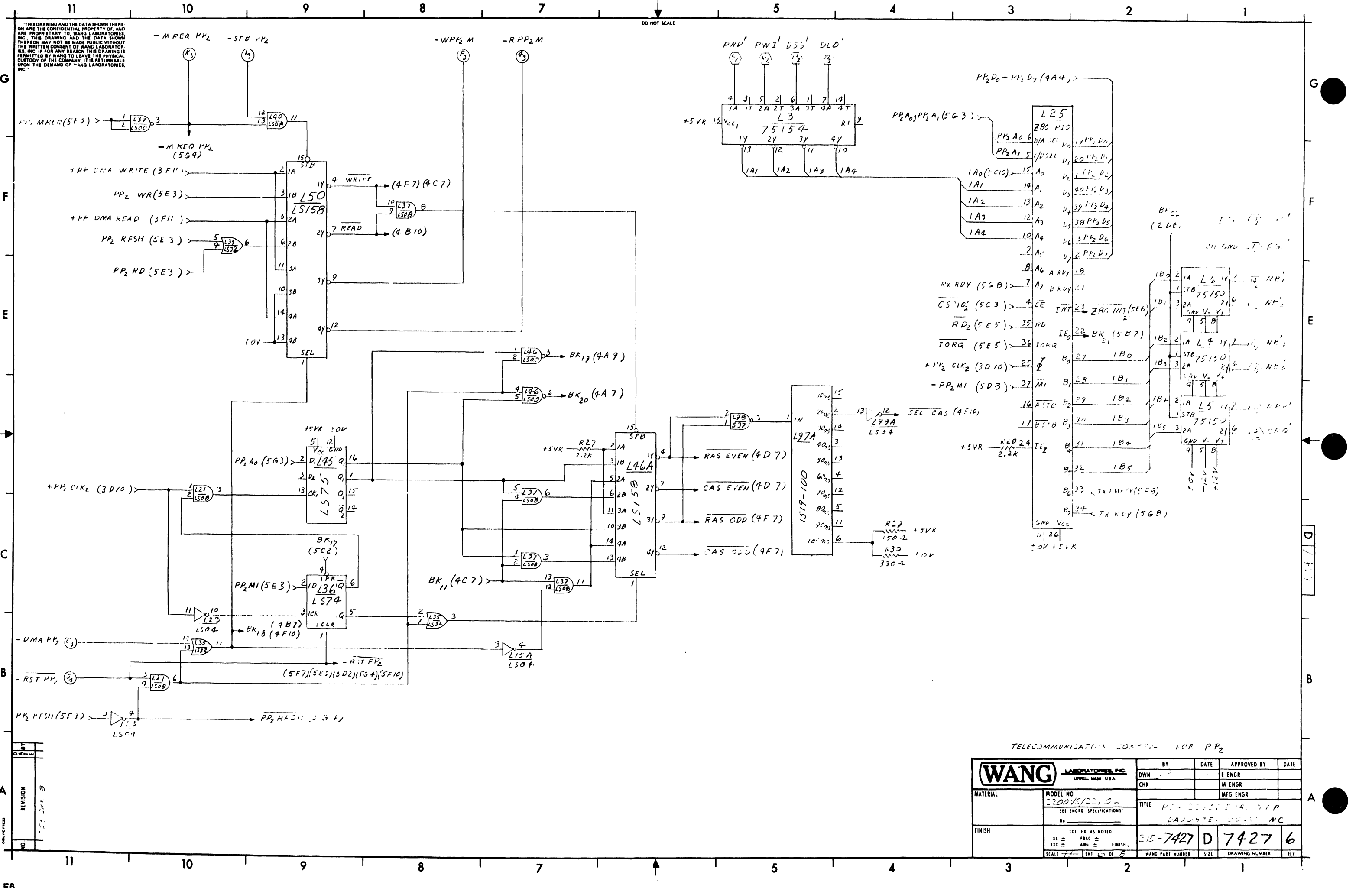


NO.	REVISION	DATE
1	SCF, SCA	

TELECOMMUNICATIONS CONTROL FOR PP2

MATERIAL	WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.	BY	DATE	APPROVED BY	DATE
	MODEL NO. 2231V-122155	DWN		E ENGR	
FINISH	SEE ENGR SPECIFICATIONS	CHK		M ENGR	
	TOL EE AS NOTED XX ± XXX ± SCALE: 1/8" = 1"			MFG ENGR	
TITLE: DAUGHTER BOARD		210-7427		D	7427
WANG PART NUMBER		SIZE	DRAWING NUMBER		REV

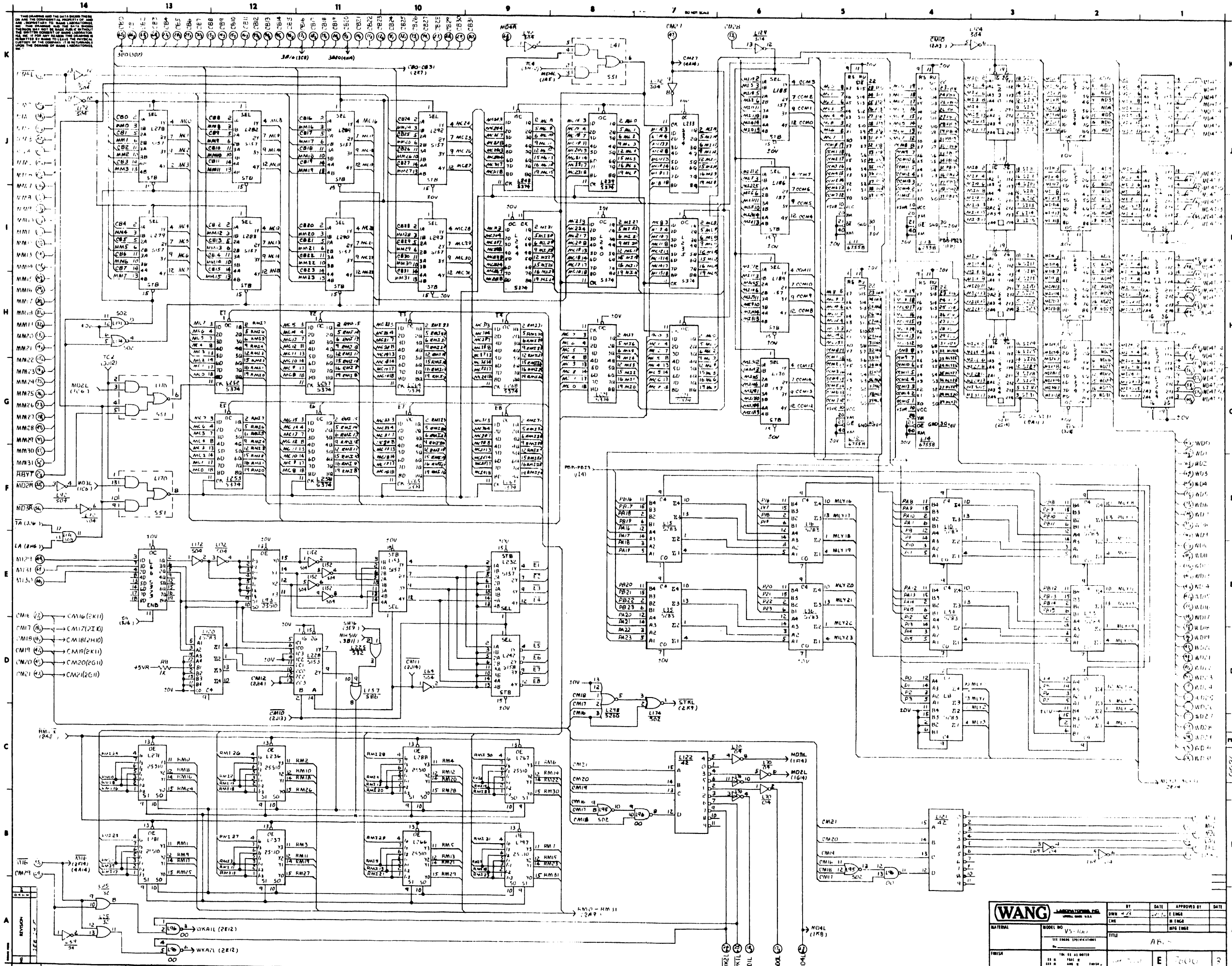
"THIS DRAWING AND THE DATA SHOWN THERE ON ARE THE CONFIDENTIAL PROPERTY OF AND ARE PROPRIETARY TO WANG LABORATORIES, INC. THIS DRAWING AND THE DATA SHOWN THEREON MAY NOT BE MADE PUBLIC WITHOUT THE WRITTEN CONSENT OF WANG LABORATORIES, INC. IF FOR ANY REASON THIS DRAWING IS PERMITTED BY WANG TO LEAVE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



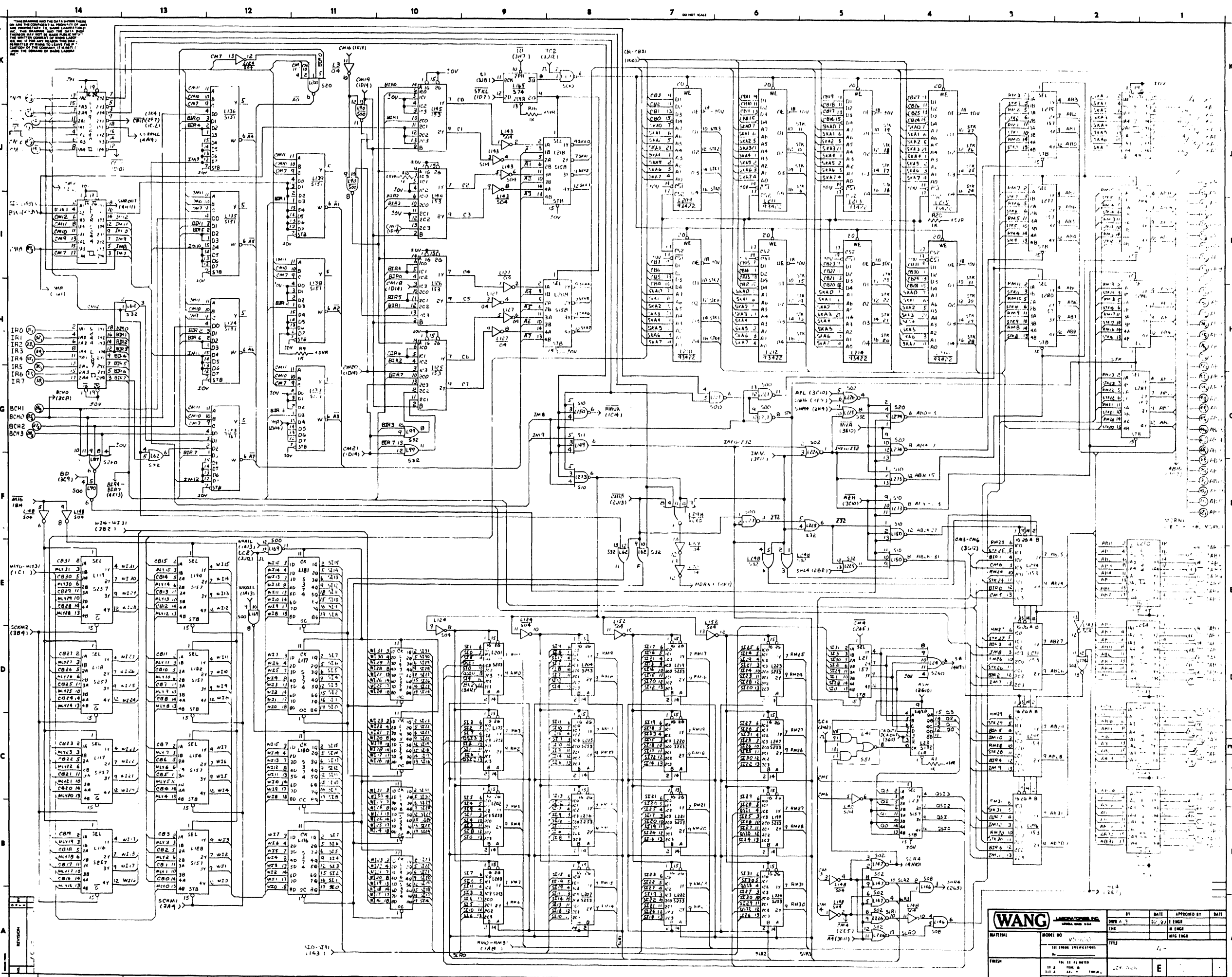
REV	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

TELECOMMUNICATIONS CONTROL FOR PP2

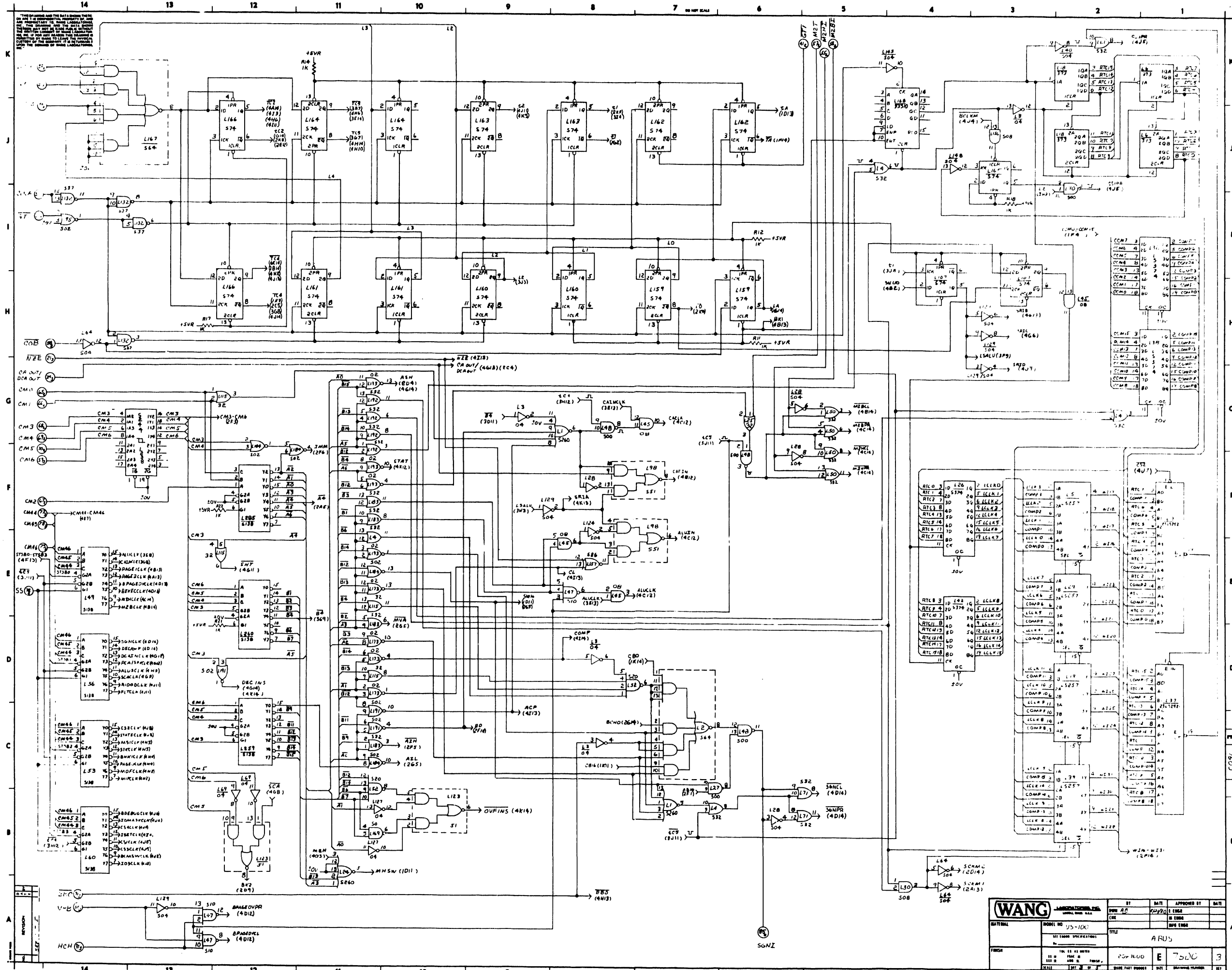
WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN		E ENGR	
MODEL NO. 220015/22150		CHK		M ENGR	
SEE ENGR SPECIFICATIONS		TITLE PP2 CONTROL BOARD, P.P. SAUSSET, MASS. U.S.A.			
FINISH		310-7427 D 7427 6			
TOL EX AS NOTED		SCALE 1/8" = 1"			
XX ± FRACTION ± FINISH		WANG PART NUMBER			
XXX ± ANG ± FINISH		SIZE			
SCALE 1/8" = 1"		DRAWING NUMBER			
SHEET 1 OF 8		REV			



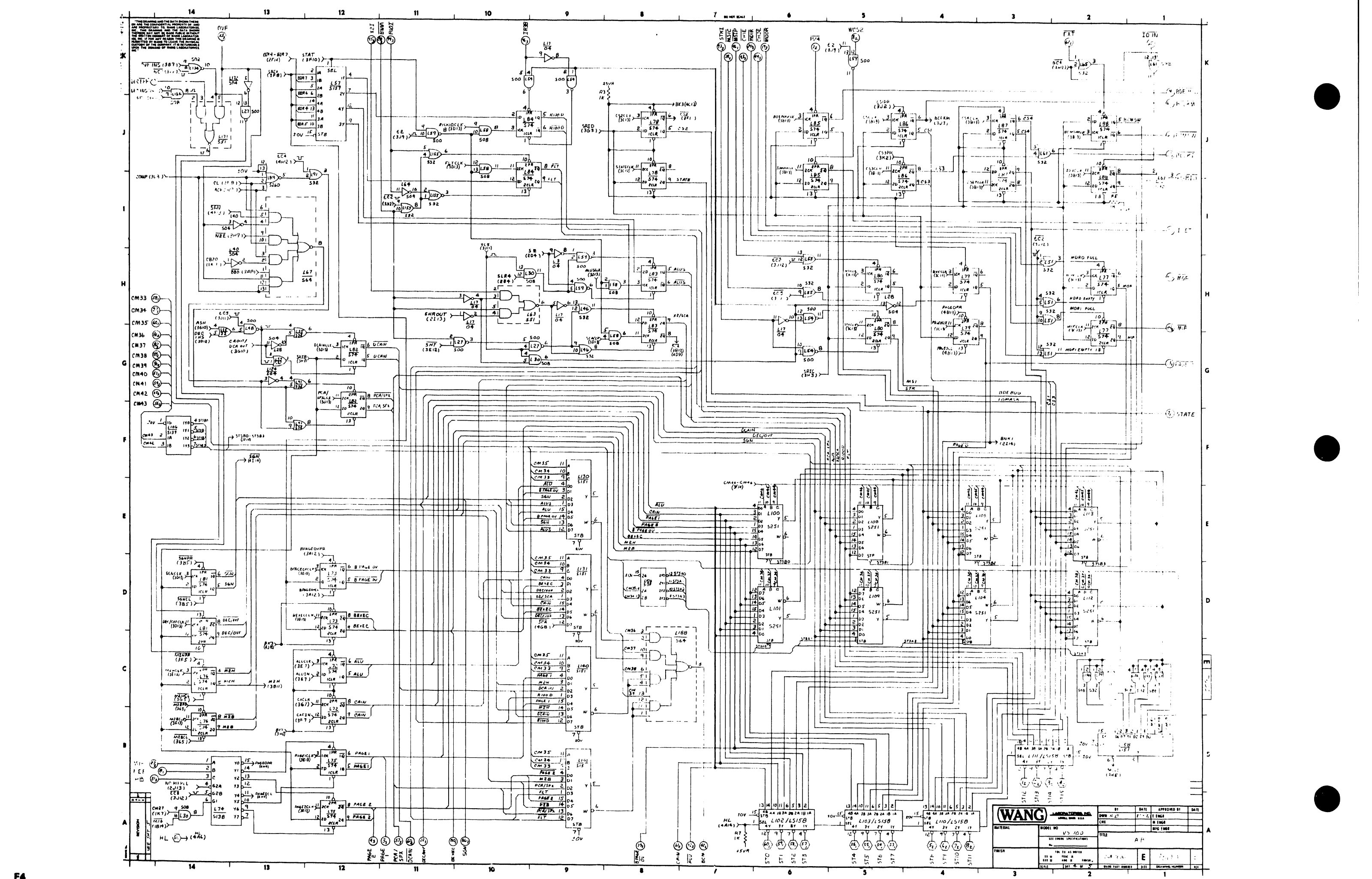
WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. V5-1000		OWN	4-22	E. ENGA	
SERIAL NO. 10000000000000000000		CHK		M. ENGA	
TITLE		A/B		DRG. ENGR.	
FINISH		E		2000	3
SCALE		1/8" = 1"		DATE	



WANG		DATE	APPROVED BY	DATE
MATERIAL	WORKING DRAWING	NO. 1	DATE	DATE
FINISH	DATE	DATE	DATE	DATE



WANG LABORATORIES, INC. 700 WEST 12TH AVENUE MENLO PARK, CALIF. 94025		BT	DATE	APPROVED BY	DATE
MODEL NO. 720C		REV. A.P.	7/20/70	B. ENGB.	
TITLE		4RUS			
DESIGNED BY		E. 752C			
CHECKED BY		3			
DRAWN BY					
DATE					



These components are used to control the data bus and the address bus. They are connected to the bus lines and the control lines. The components are connected to the bus lines and the control lines. The components are connected to the bus lines and the control lines.

WANG LABORATORY		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO	VS 1003			
	REV	001			
	TITLE	AF			
	DRAWN				
	CHKD				
	DATE				
	SCALE				
	UNIT				

These drawings are the property of Wang Laboratories, Inc. and are not to be distributed outside the company. They are to be used only for the purpose of manufacturing and repair. They are not to be used for any other purpose without the written consent of Wang Laboratories, Inc.

Table with columns for part numbers and descriptions. Includes items like 74502, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 74515, 74516, 74517, 74518, 74519, 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 74533, 74534, 74535, 74536, 74537, 74538, 74539, 74540, 74541, 74542, 74543, 74544, 74545, 74546, 74547, 74548, 74549, 74550, 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. Includes entries for 74502, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 74515, 74516, 74517, 74518, 74519, 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 74533, 74534, 74535, 74536, 74537, 74538, 74539, 74540, 74541, 74542, 74543, 74544, 74545, 74546, 74547, 74548, 74549, 74550, 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: COMPONENT, TYPE, WL PART ID. Includes entries for 74502, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 74515, 74516, 74517, 74518, 74519, 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 74533, 74534, 74535, 74536, 74537, 74538, 74539, 74540, 74541, 74542, 74543, 74544, 74545, 74546, 74547, 74548, 74549, 74550, 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: MEMORIC, COORD, MEMORIC, COORD. Includes entries for ABO-AB31, ABO-AB32, ABO-AB33, ABO-AB34, ABO-AB35, ABO-AB36, ABO-AB37, ABO-AB38, ABO-AB39, ABO-AB40, ABO-AB41, ABO-AB42, ABO-AB43, ABO-AB44, ABO-AB45, ABO-AB46, ABO-AB47, ABO-AB48, ABO-AB49, ABO-AB50, ABO-AB51, ABO-AB52, ABO-AB53, ABO-AB54, ABO-AB55, ABO-AB56, ABO-AB57, ABO-AB58, ABO-AB59, ABO-AB60, ABO-AB61, ABO-AB62, ABO-AB63, ABO-AB64, ABO-AB65, ABO-AB66, ABO-AB67, ABO-AB68, ABO-AB69, ABO-AB70, ABO-AB71, ABO-AB72, ABO-AB73, ABO-AB74, ABO-AB75, ABO-AB76, ABO-AB77, ABO-AB78, ABO-AB79, ABO-AB80, ABO-AB81, ABO-AB82, ABO-AB83, ABO-AB84, ABO-AB85, ABO-AB86, ABO-AB87, ABO-AB88, ABO-AB89, ABO-AB90, ABO-AB91, ABO-AB92, ABO-AB93, ABO-AB94, ABO-AB95, ABO-AB96, ABO-AB97, ABO-AB98, ABO-AB99, ABO-AB100.

Table with columns: MEMORIC, COORD, MEMORIC, COORD. Includes entries for ABO-AB31, ABO-AB32, ABO-AB33, ABO-AB34, ABO-AB35, ABO-AB36, ABO-AB37, ABO-AB38, ABO-AB39, ABO-AB40, ABO-AB41, ABO-AB42, ABO-AB43, ABO-AB44, ABO-AB45, ABO-AB46, ABO-AB47, ABO-AB48, ABO-AB49, ABO-AB50, ABO-AB51, ABO-AB52, ABO-AB53, ABO-AB54, ABO-AB55, ABO-AB56, ABO-AB57, ABO-AB58, ABO-AB59, ABO-AB60, ABO-AB61, ABO-AB62, ABO-AB63, ABO-AB64, ABO-AB65, ABO-AB66, ABO-AB67, ABO-AB68, ABO-AB69, ABO-AB70, ABO-AB71, ABO-AB72, ABO-AB73, ABO-AB74, ABO-AB75, ABO-AB76, ABO-AB77, ABO-AB78, ABO-AB79, ABO-AB80, ABO-AB81, ABO-AB82, ABO-AB83, ABO-AB84, ABO-AB85, ABO-AB86, ABO-AB87, ABO-AB88, ABO-AB89, ABO-AB90, ABO-AB91, ABO-AB92, ABO-AB93, ABO-AB94, ABO-AB95, ABO-AB96, ABO-AB97, ABO-AB98, ABO-AB99, ABO-AB100.

Table with columns: MEMORIC, COORD, MEMORIC, COORD. Includes entries for ABO-AB31, ABO-AB32, ABO-AB33, ABO-AB34, ABO-AB35, ABO-AB36, ABO-AB37, ABO-AB38, ABO-AB39, ABO-AB40, ABO-AB41, ABO-AB42, ABO-AB43, ABO-AB44, ABO-AB45, ABO-AB46, ABO-AB47, ABO-AB48, ABO-AB49, ABO-AB50, ABO-AB51, ABO-AB52, ABO-AB53, ABO-AB54, ABO-AB55, ABO-AB56, ABO-AB57, ABO-AB58, ABO-AB59, ABO-AB60, ABO-AB61, ABO-AB62, ABO-AB63, ABO-AB64, ABO-AB65, ABO-AB66, ABO-AB67, ABO-AB68, ABO-AB69, ABO-AB70, ABO-AB71, ABO-AB72, ABO-AB73, ABO-AB74, ABO-AB75, ABO-AB76, ABO-AB77, ABO-AB78, ABO-AB79, ABO-AB80, ABO-AB81, ABO-AB82, ABO-AB83, ABO-AB84, ABO-AB85, ABO-AB86, ABO-AB87, ABO-AB88, ABO-AB89, ABO-AB90, ABO-AB91, ABO-AB92, ABO-AB93, ABO-AB94, ABO-AB95, ABO-AB96, ABO-AB97, ABO-AB98, ABO-AB99, ABO-AB100.

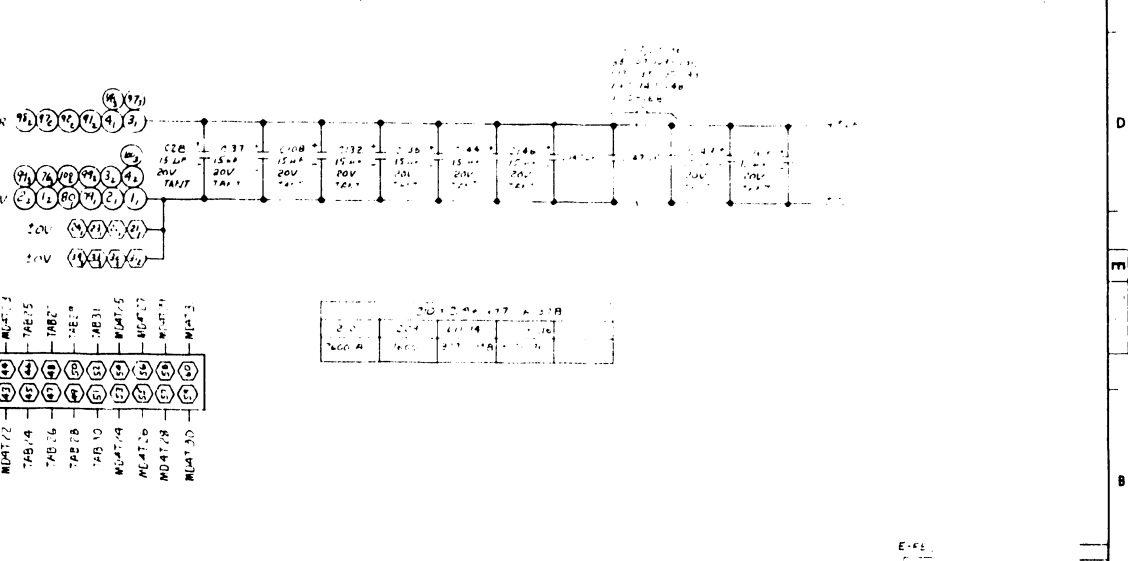
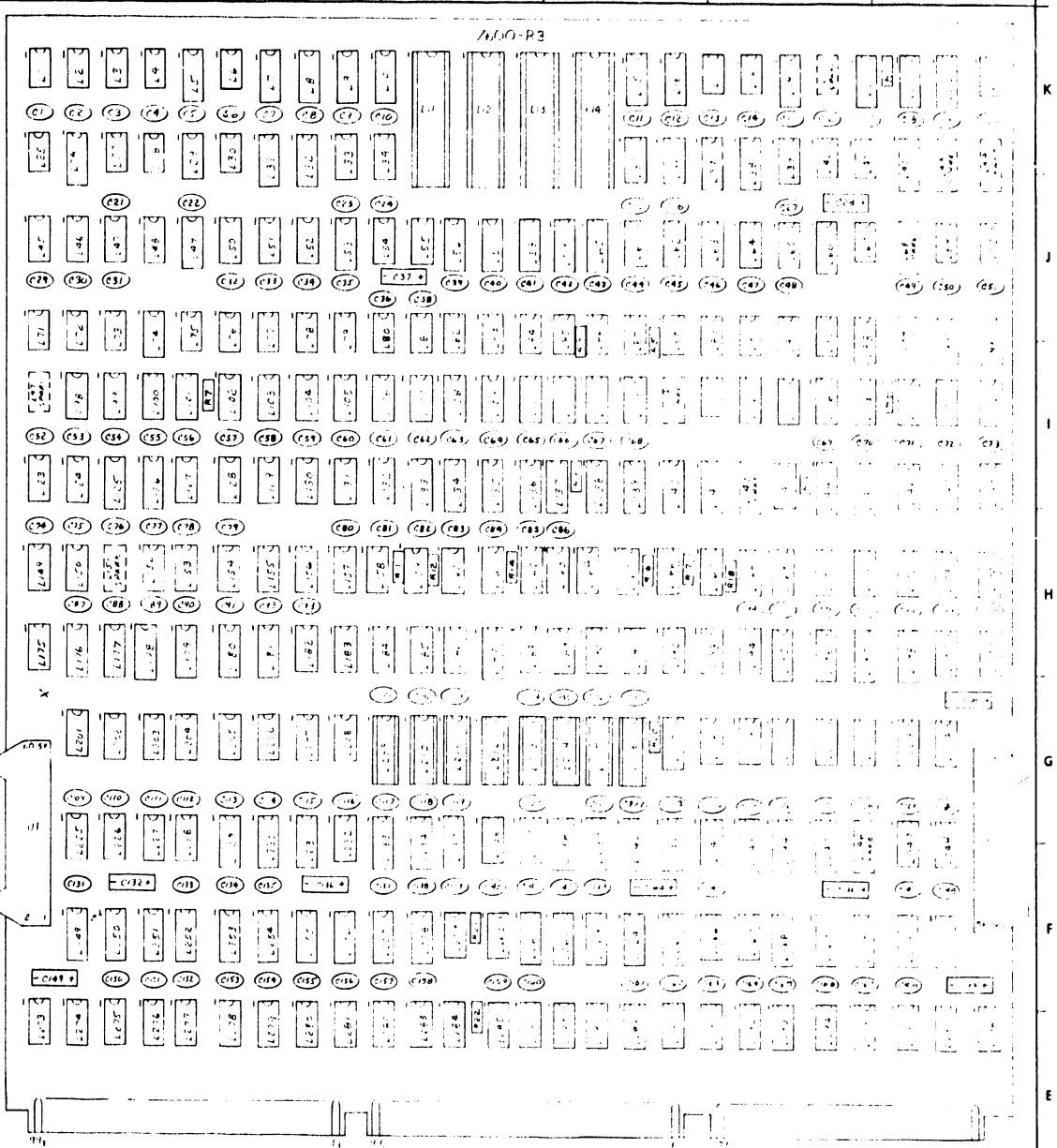
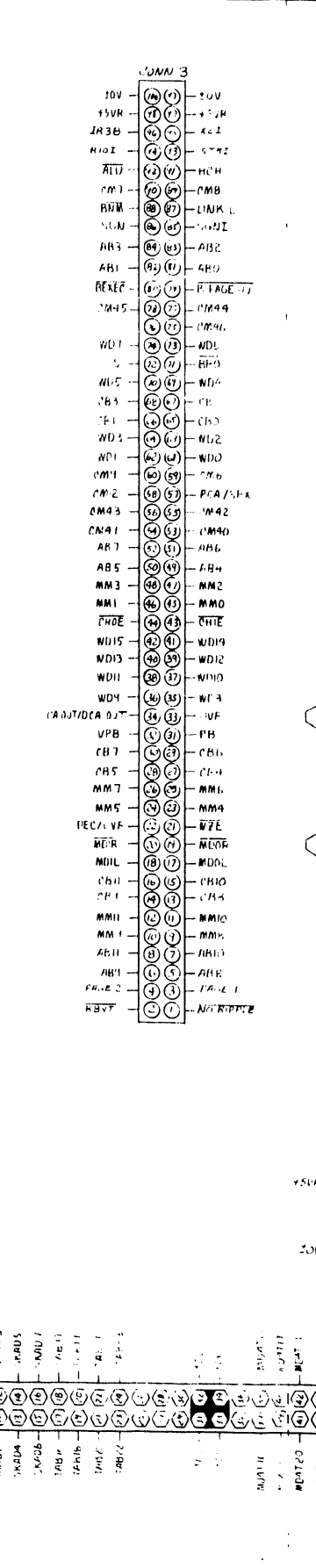
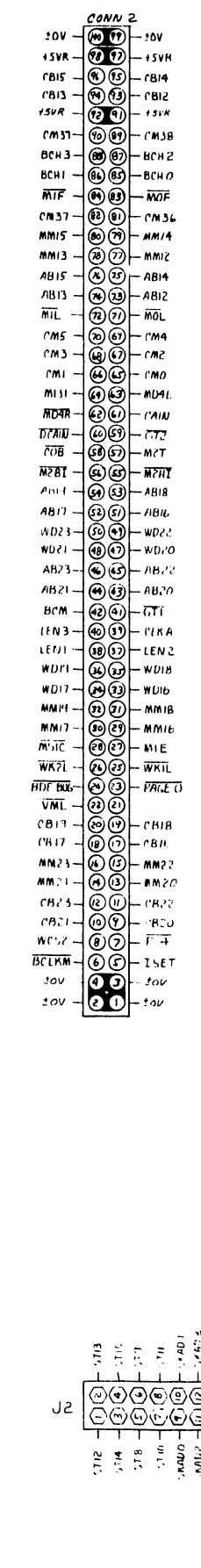
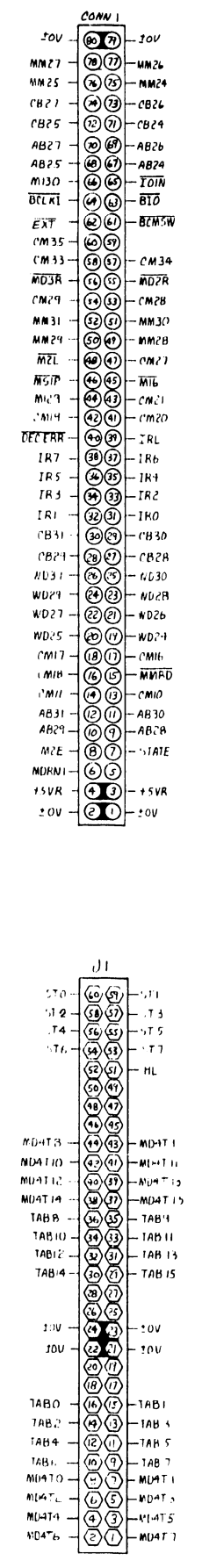
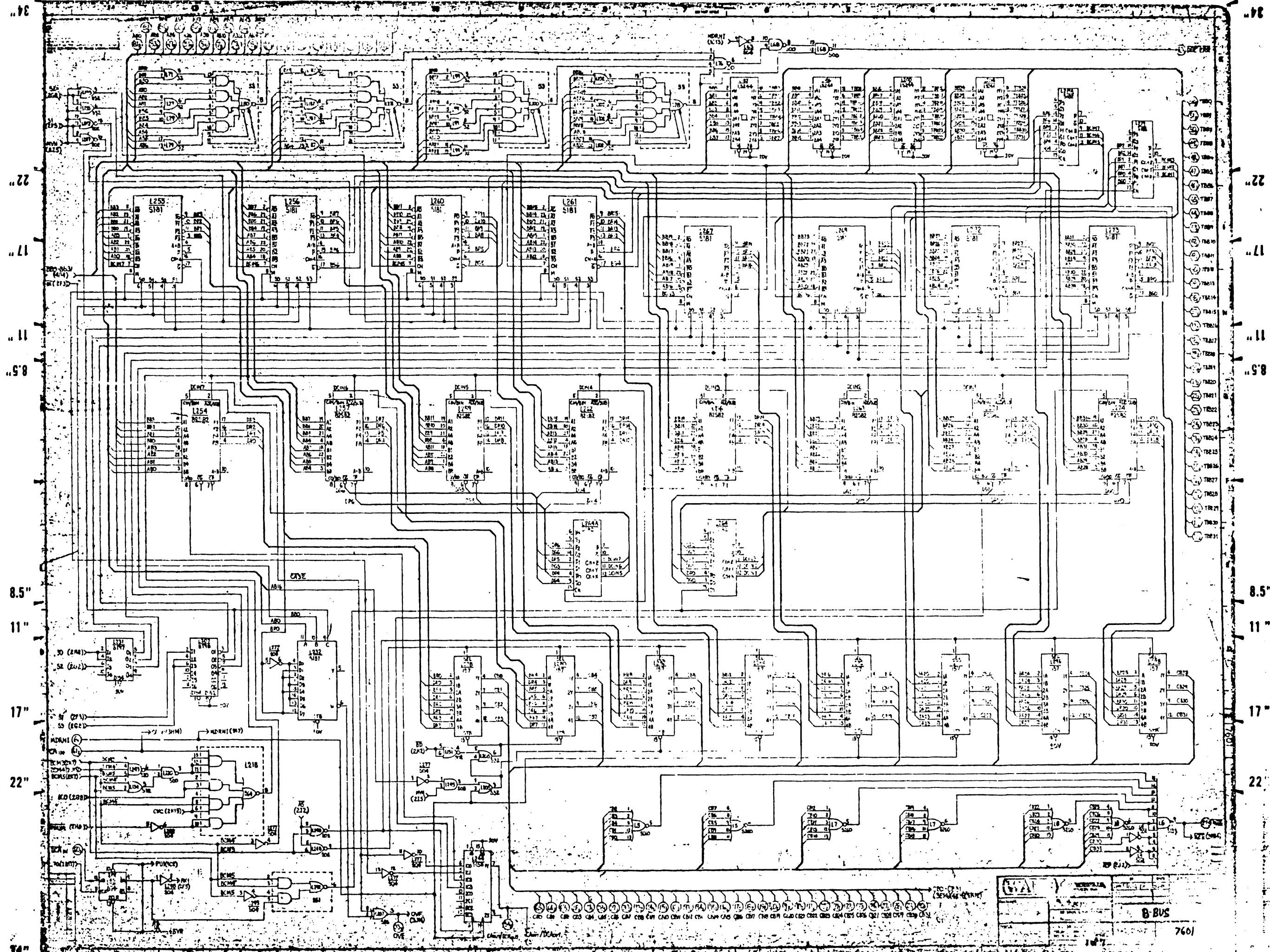


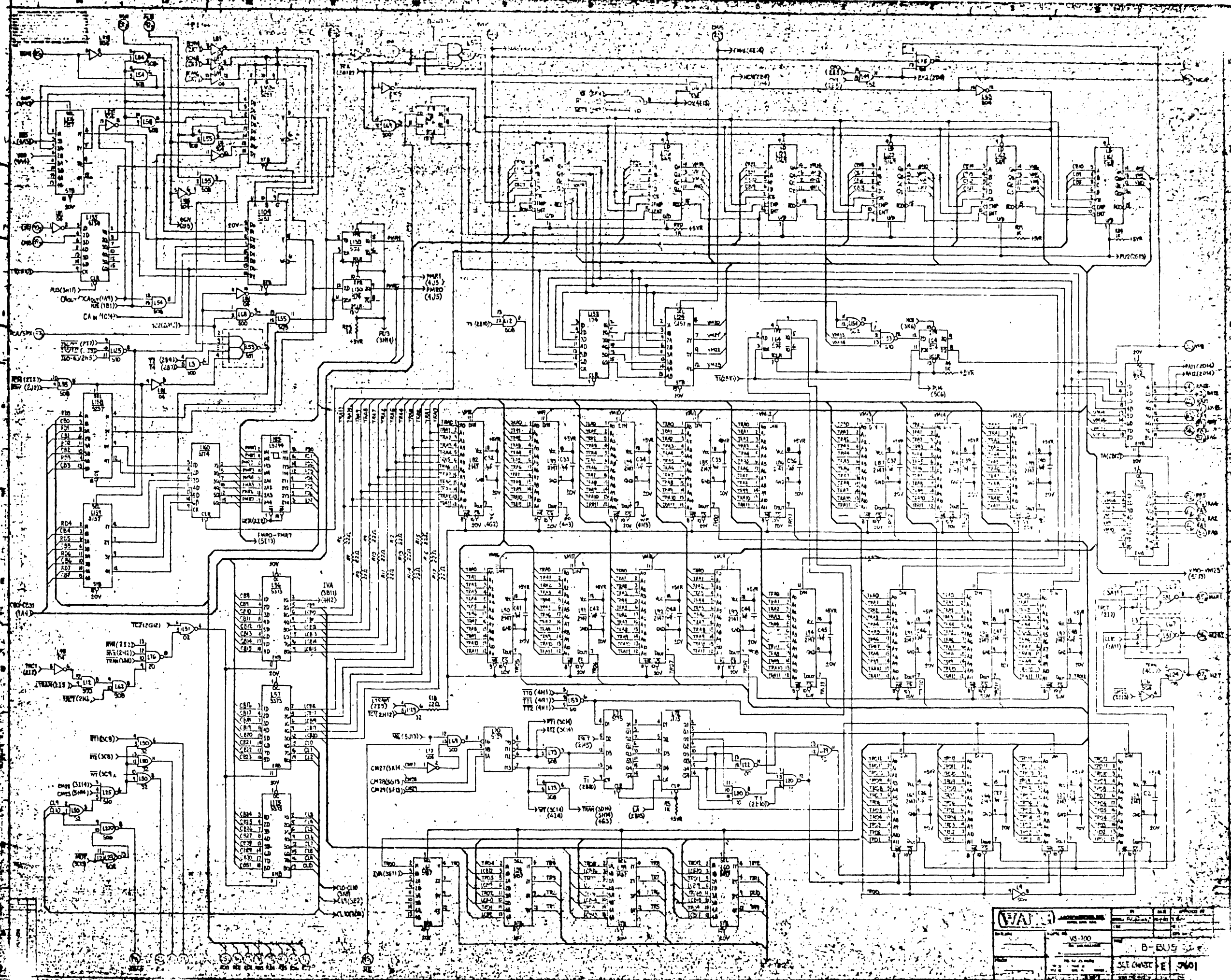
Table with columns: REV, DATE, BY, APPR. Includes revision history for the drawing.

WANG LABORATORIES, INC. drawing form with fields for MATERIAL, MODEL NO, TITLE, DATE, BY, APPR, and other administrative information.



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

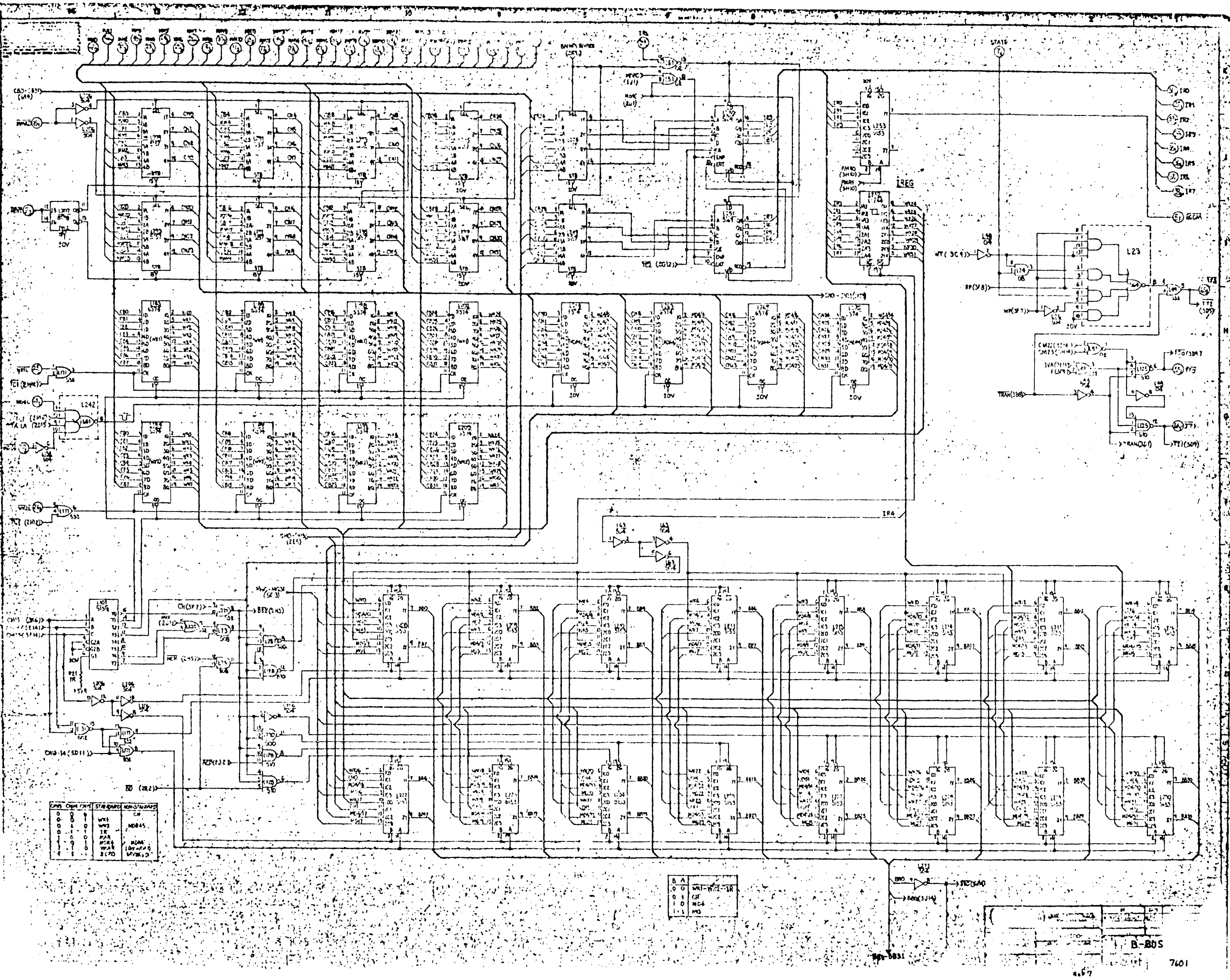
34"
22"
17"
11"
8.5"
8.5"
11"
17"
22"
34"



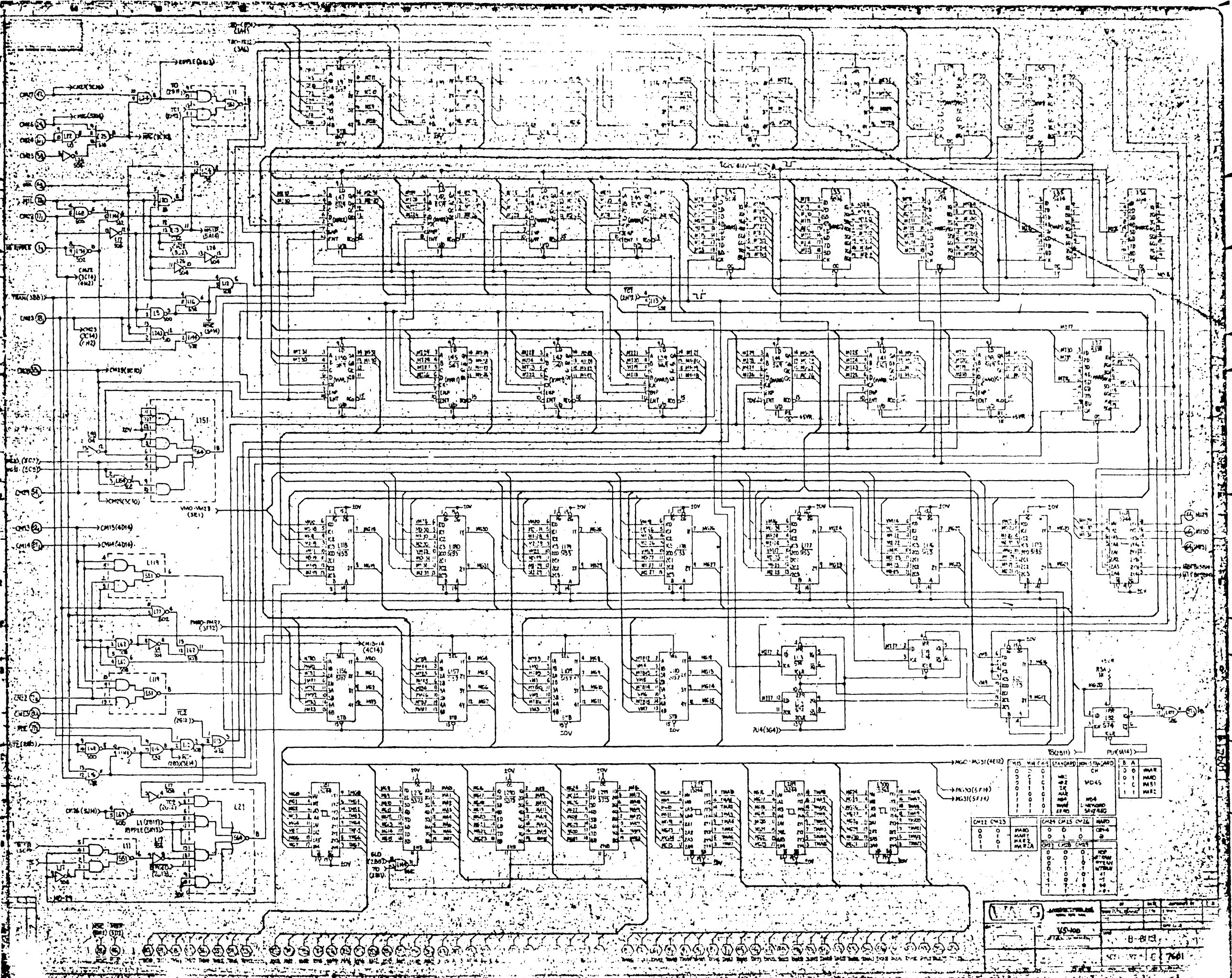
WAL	
VS-100	B-BUS
SLE CONST E	3601

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

34"
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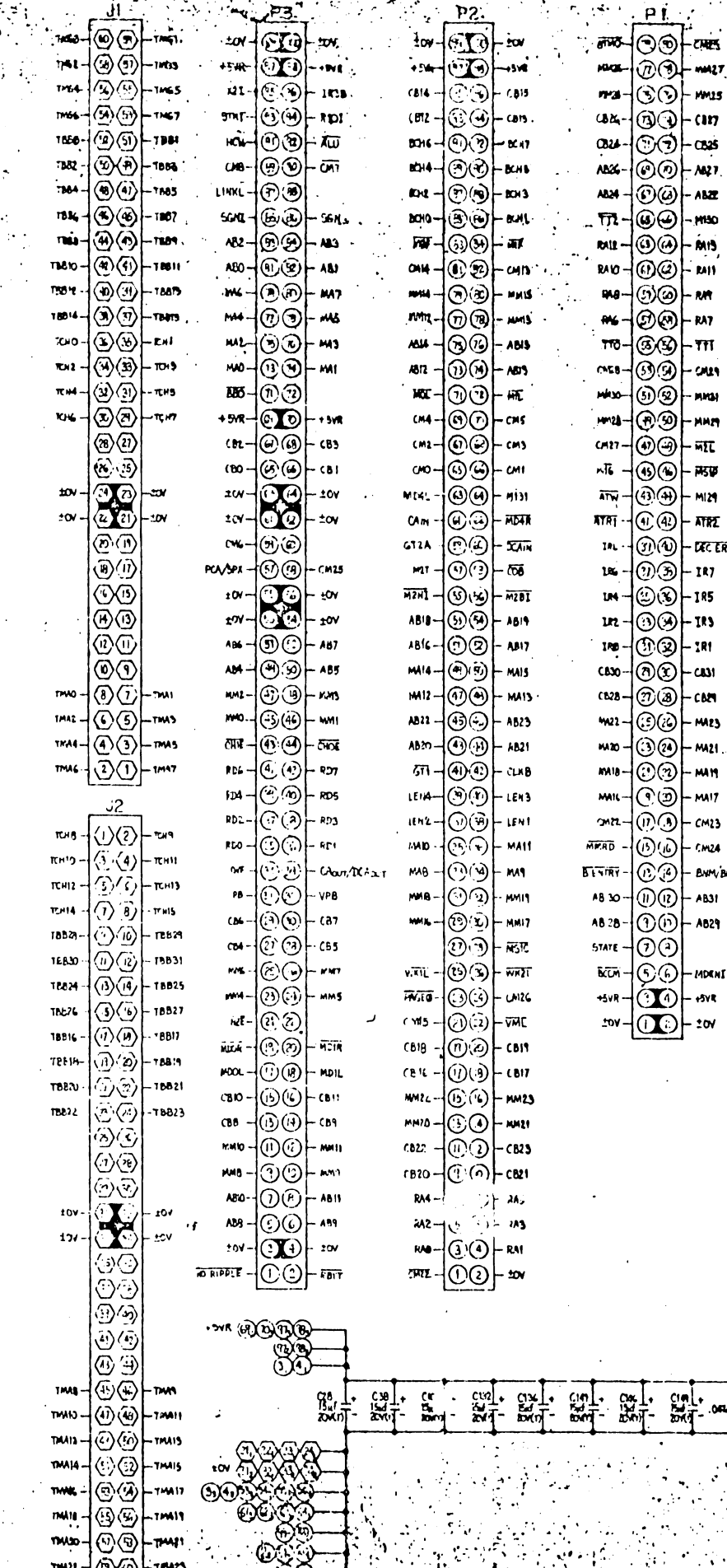
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0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

LOCATION	TYPE	REL PART NO
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131, 132, 133, 134, 135, 136, 137, 138	74504	3% - 0178
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	74504	3% - 0178
127, 128, 129, 130	74504	3% - 0178
131, 132, 133, 134, 135, 136, 137, 138	74504	3% - 0178
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	74504	3% - 0178

COMPONENT	TYPE	REL PART NO
127, 128, 129, 130	74504	3% - 0178
131, 132, 133, 134, 135, 136, 137, 138	74504	3% - 0178
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	74504	3% - 0178

TYPE	LOCATION	EMPHASIS
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74504	L3	1
74504	L4	1
74504	L5	1
74504	L6	1
74504	L7	1
74504	L8	1
74504	L9	1
74504	L10	1
74504	L11	1
74504	L12	1
74504	L13	1
74504	L14	1
74504	L15	1
74504	L16	1
74504	L17	1
74504	L18	1
74504	L19	1
74504	L20	1
74504	L21	1
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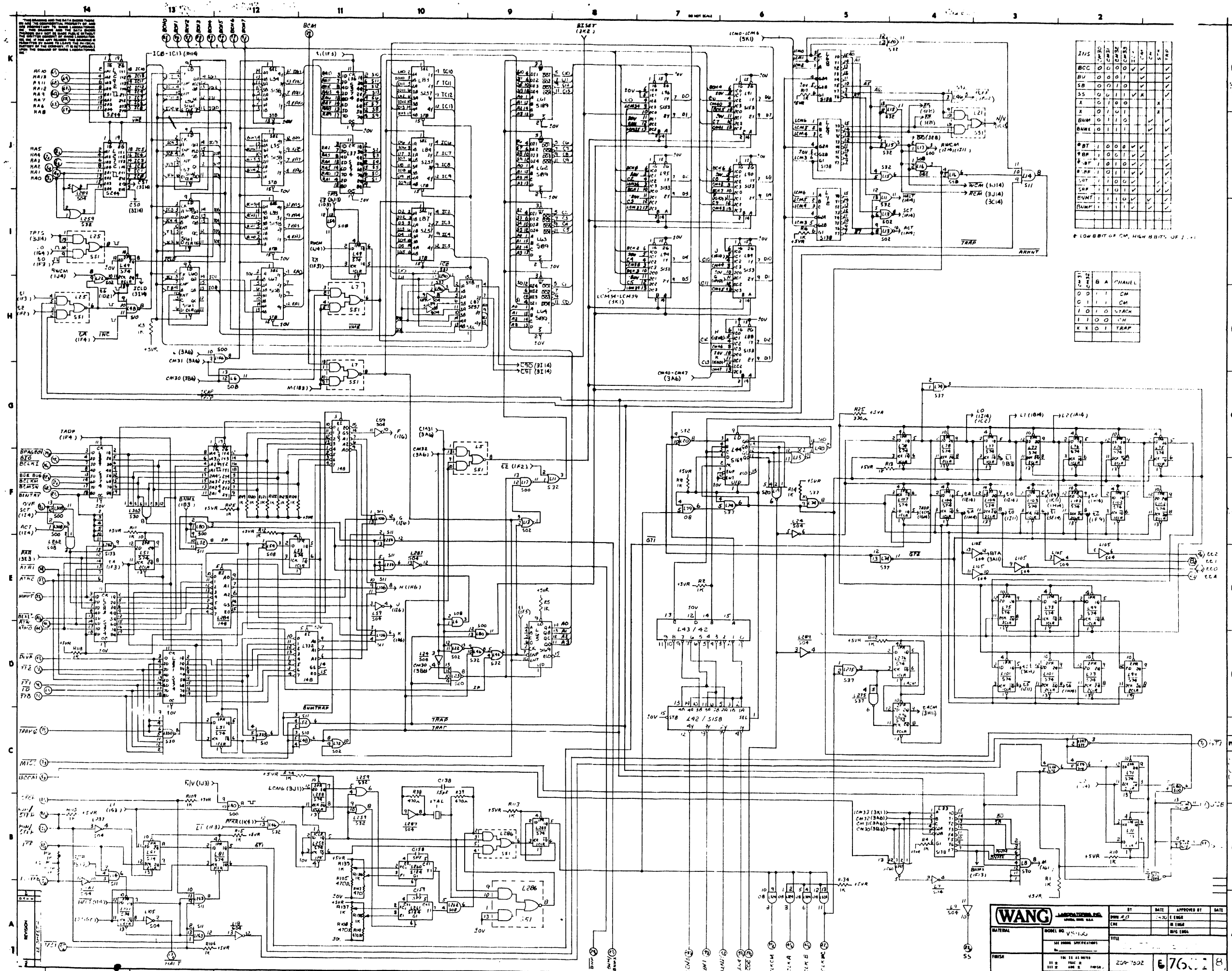


C1-C5, 25, 31, 41, 73, 74, 102, 104, 131, 132, 133, 137, 102, 101, 145, 147, 148, 150, 148

NO.	REV.	DATE	BY	CHKD.	APP'D.
1	1				

B-BUS

7601

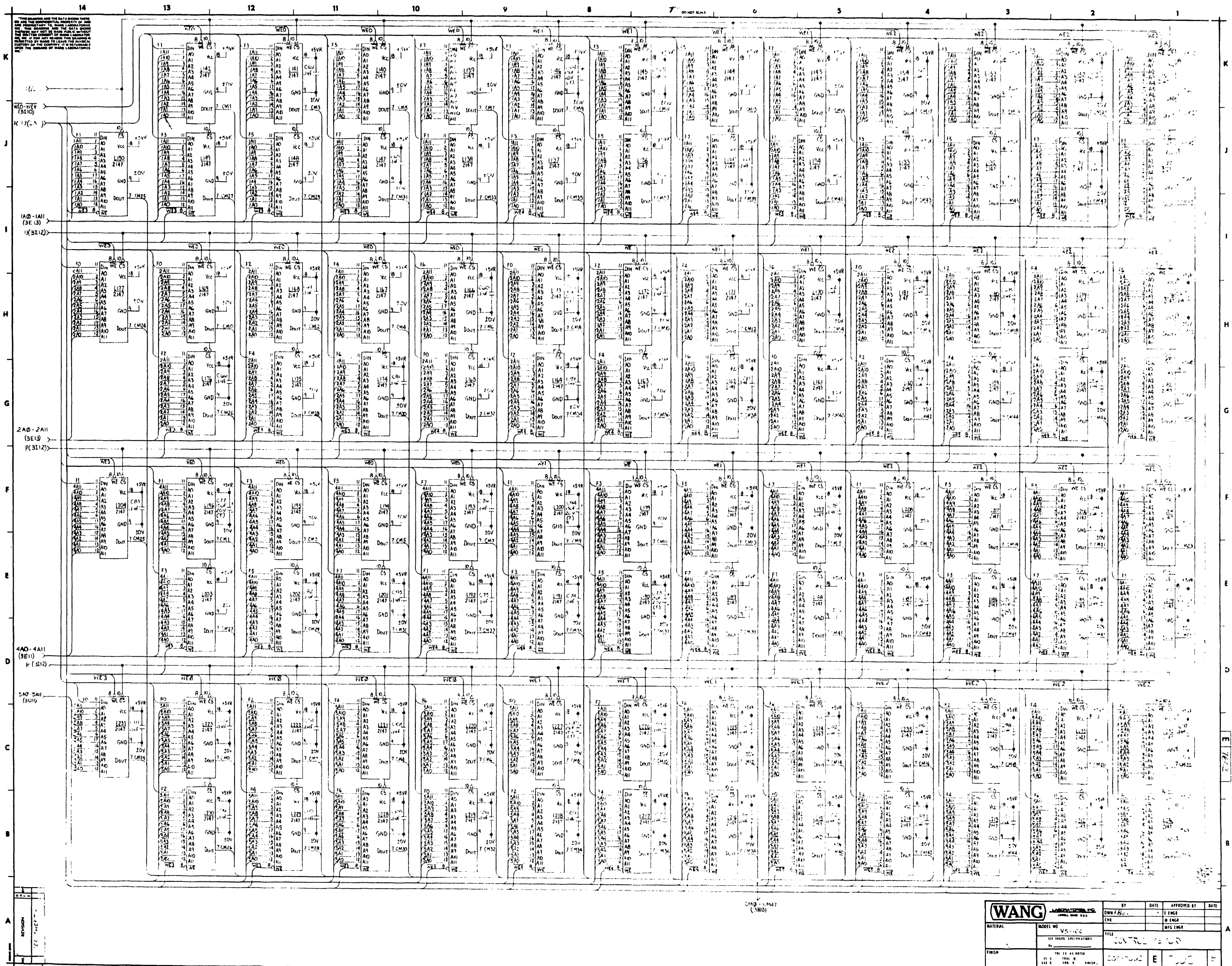


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BIT	CM	TRAP
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BT	1	1

BIT	CM	TRAP
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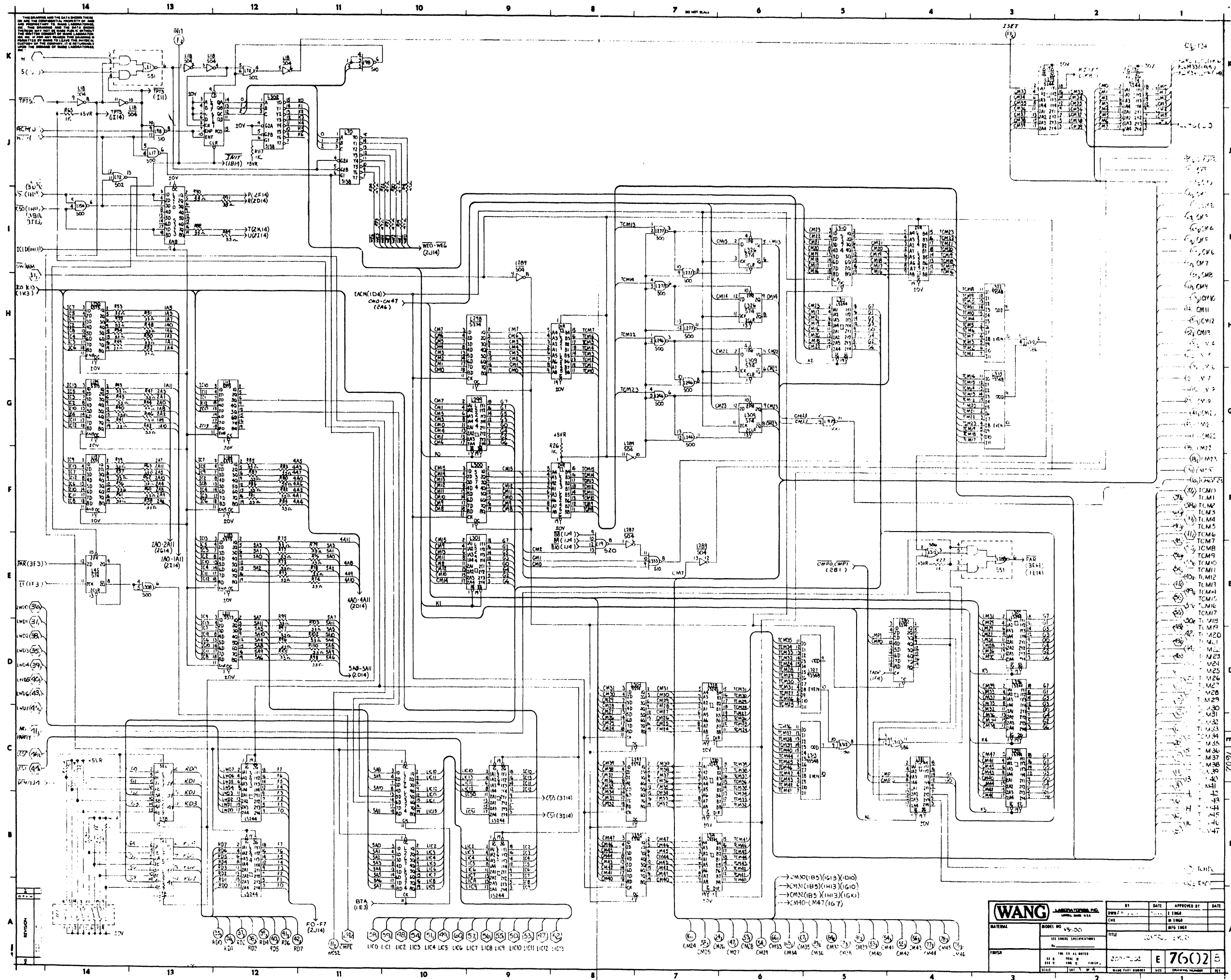
WANG LABORATORIES, INC. MILWAUKEE, WIS.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. VNS-100	CHK	ENG	CHK	ENG
SEE USER OPERATIONS		TITLE			
FINISH		DATE			
11 11 66		200-1002			
11 11 66		76			
11 11 66		8			



1. This equipment is to be installed in a control room...
 2. The control room shall be located in the...
 3. The control room shall be equipped with...
 4. The control room shall be accessible to...
 5. The control room shall be protected from...
 6. The control room shall be equipped with...
 7. The control room shall be equipped with...
 8. The control room shall be equipped with...
 9. The control room shall be equipped with...
 10. The control room shall be equipped with...
 11. The control room shall be equipped with...
 12. The control room shall be equipped with...
 13. The control room shall be equipped with...
 14. The control room shall be equipped with...

CM3-CM47
(310)

WANG		DATE	APPROVED BY	DATE
MATERIAL		DATE	APPROVED BY	DATE
MODEL NO.		DATE	APPROVED BY	DATE
SERIAL NO.		DATE	APPROVED BY	DATE
FINISH		DATE	APPROVED BY	DATE



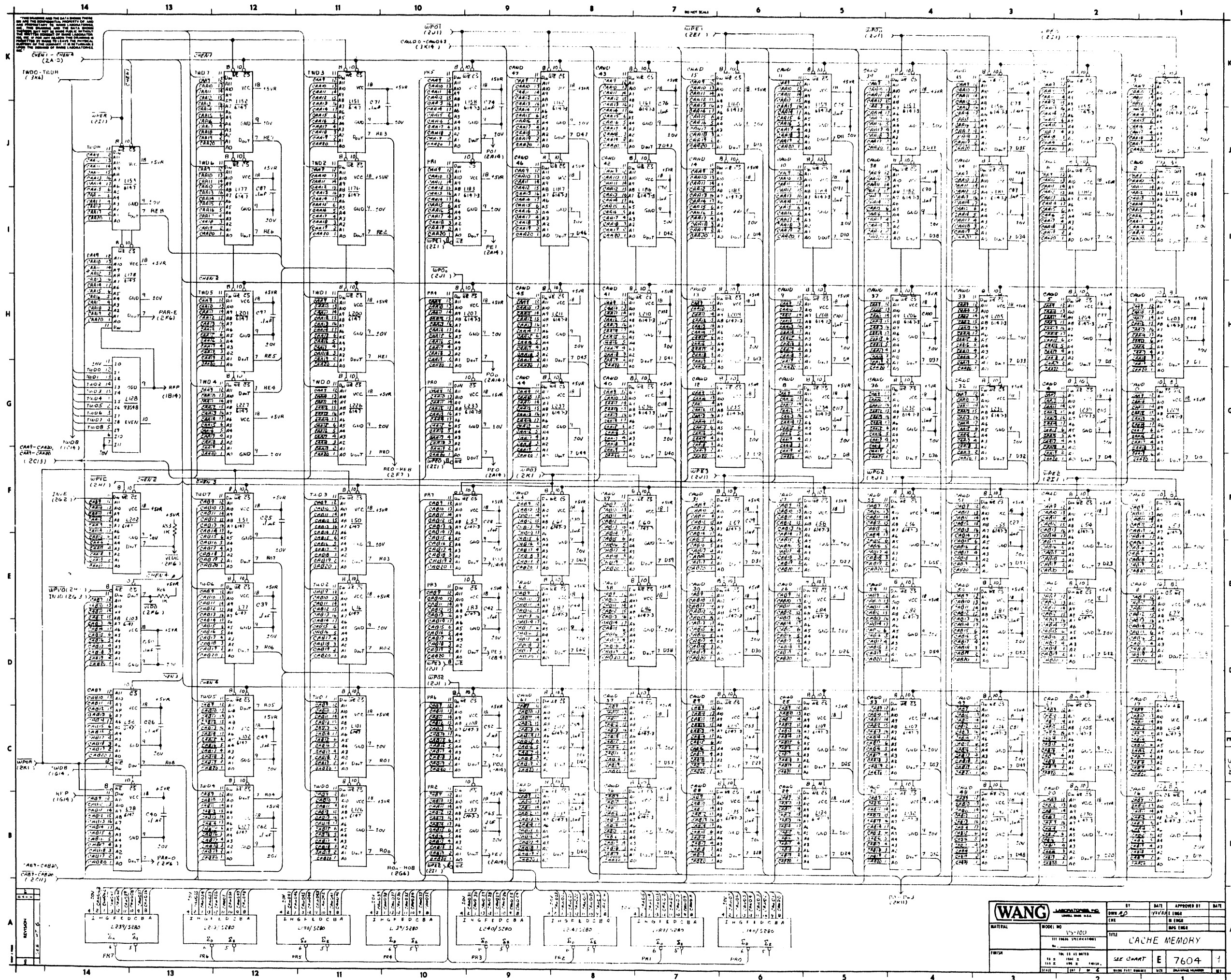
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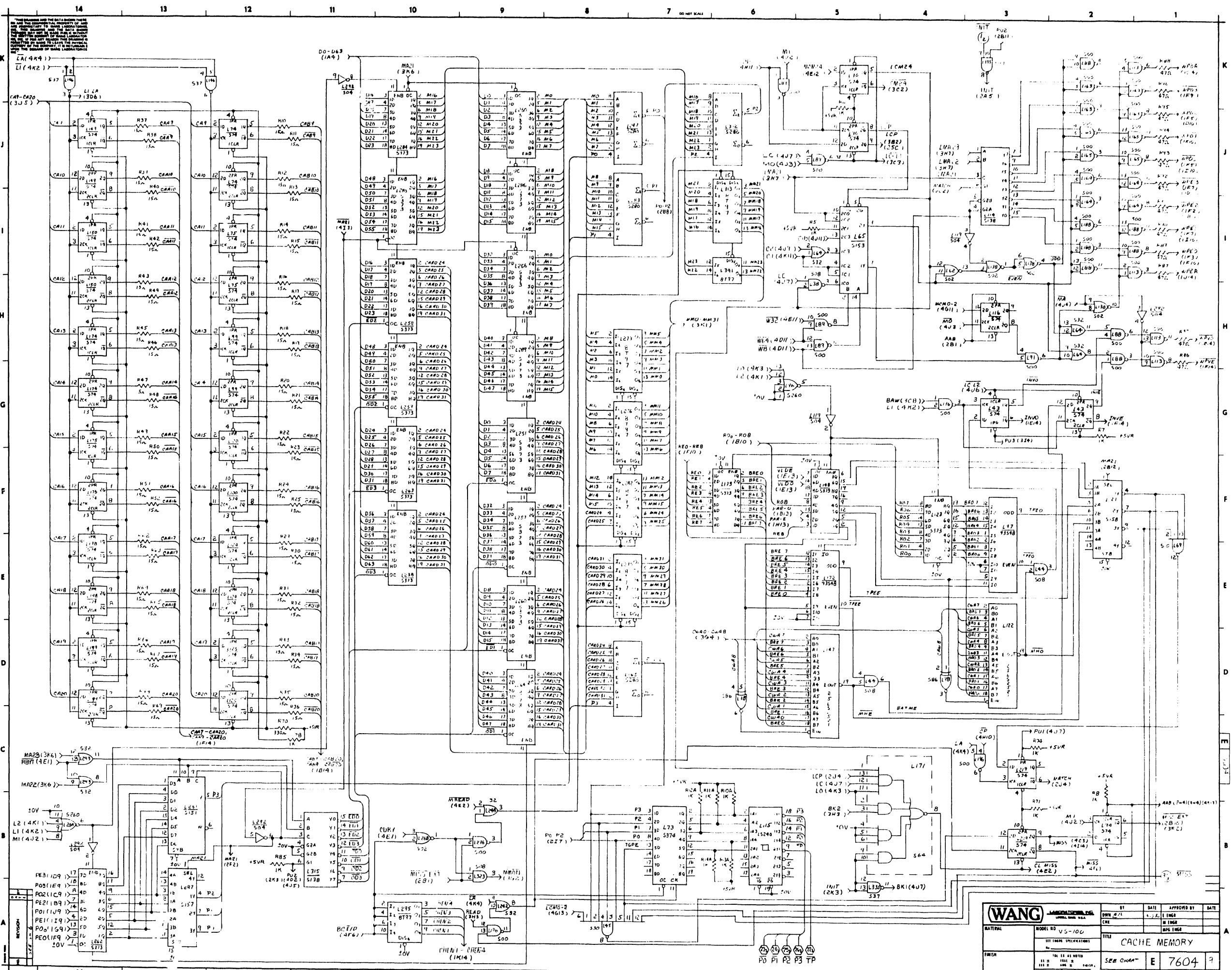
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REM J
50 (14)
IC1 (10)
SW MM
20 K15
R1 (11)
R2 (14)
T2 (14)
U2 (14)
WEO-WEE
(ZJ14)
EACM (14)
CM1-CM46
TCM1-TCM28
IC1-IC15
RD1-RD7
F0-E7
(ZJ14)
BTA
(E3)
CM1-CM46
TCM1-TCM28
CM100-CM107
CM108-CM117
CM118-CM127
CM128-CM137
CM138-CM147
CM148-CM157
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CM428-CM437
CM438-CM447
CM448-CM457
CM458-CM467

CM100 (105) (1013) (1010)
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WANG LABORATORIES INC.
MODEL NO. W-500
SERIAL NO. 7602
DATE 2-20-66
DRAWING NUMBER E 7602



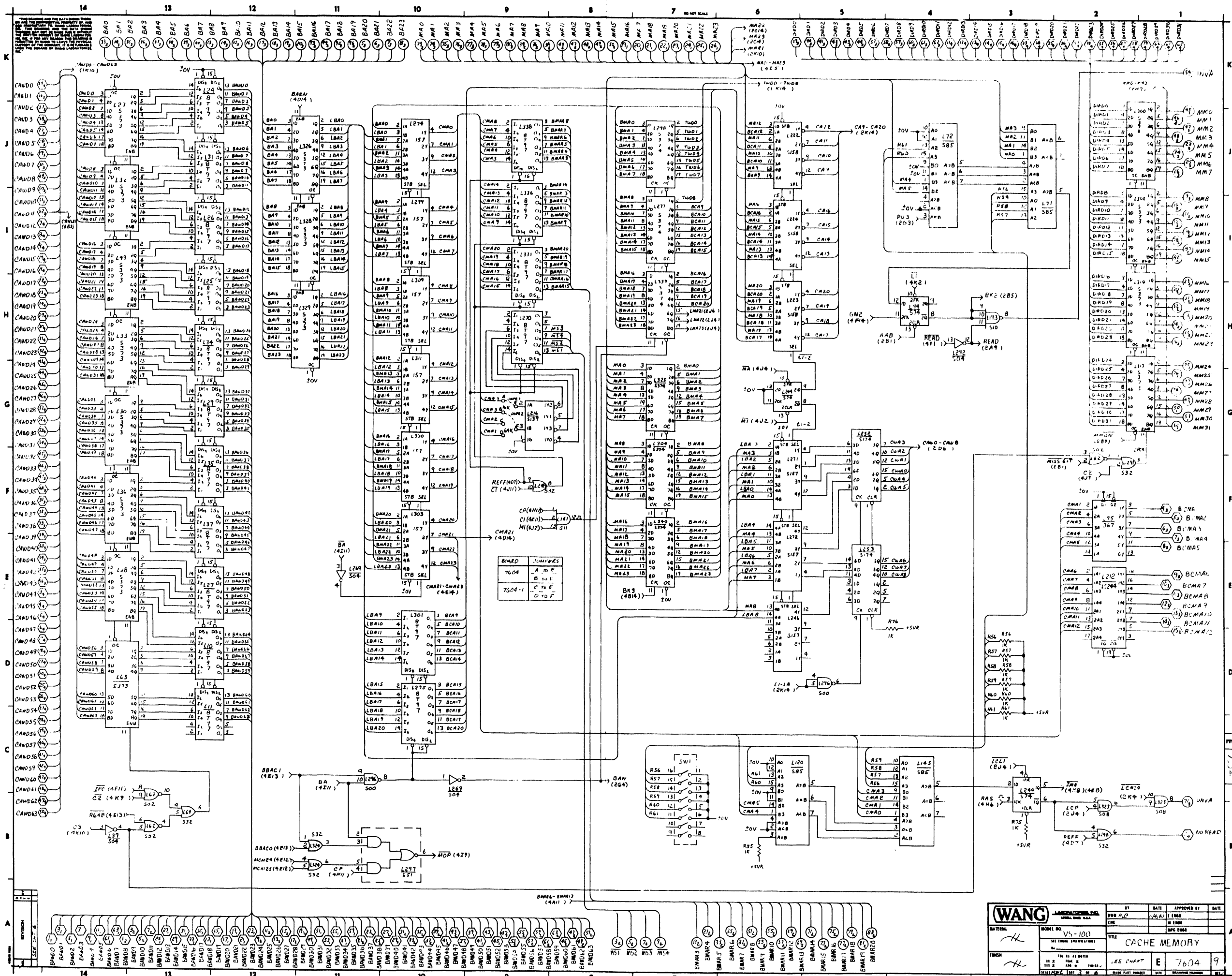
WANG LABORATORIES, INC.		ST	DATE	APPROVED BY	DATE
MODEL NO. V5-100		REV. 42	1/1/64	EMG	
TITL		CACHE MEMORY			
DRAWN		SEE CHART			
E		7604			



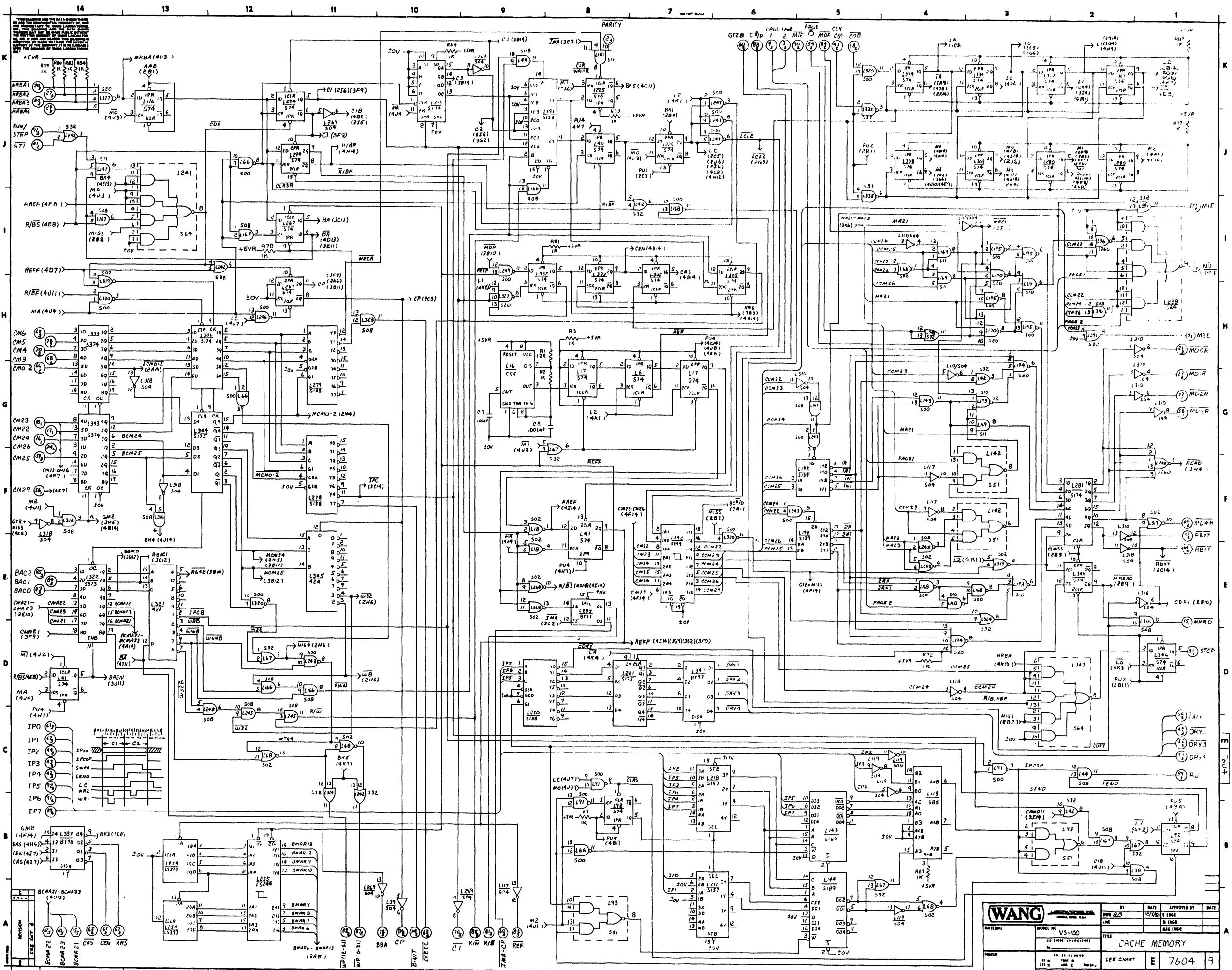
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WANG		DATE	APPROVED BY	DATE
MODEL NO. VS-100		DATE	BY	
TITLE		DATE	BY	
CACHE MEMORY		DATE	BY	
REV. 1.0		DATE	BY	
REV. 2.0		DATE	BY	
REV. 3.0		DATE	BY	
REV. 4.0		DATE	BY	
REV. 5.0		DATE	BY	
REV. 6.0		DATE	BY	
REV. 7.0		DATE	BY	
REV. 8.0		DATE	BY	
REV. 9.0		DATE	BY	
REV. 10.0		DATE	BY	
REV. 11.0		DATE	BY	
REV. 12.0		DATE	BY	
REV. 13.0		DATE	BY	
REV. 14.0		DATE	BY	
REV. 15.0		DATE	BY	
REV. 16.0		DATE	BY	
REV. 17.0		DATE	BY	
REV. 18.0		DATE	BY	
REV. 19.0		DATE	BY	
REV. 20.0		DATE	BY	
REV. 21.0		DATE	BY	
REV. 22.0		DATE	BY	
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REV. 25.0		DATE	BY	
REV. 26.0		DATE	BY	
REV. 27.0		DATE	BY	
REV. 28.0		DATE	BY	
REV. 29.0		DATE	BY	
REV. 30.0		DATE	BY	
REV. 31.0		DATE	BY	
REV. 32.0		DATE	BY	
REV. 33.0		DATE	BY	
REV. 34.0		DATE	BY	
REV. 35.0		DATE	BY	
REV. 36.0		DATE	BY	
REV. 37.0		DATE	BY	
REV. 38.0		DATE	BY	
REV. 39.0		DATE	BY	
REV. 40.0		DATE	BY	
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REV. 42.0		DATE	BY	
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REV. 98.0		DATE	BY	
REV. 99.0		DATE	BY	
REV. 100.0		DATE	BY	



WANG		DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	DATE	APPROVED BY	DATE
	V5-1003	2/10/64	J.E. CHART	7604
TITLE		DATE	APPROVED BY	DATE
CACHE MEMORY		2/10/64	J.E. CHART	7604
DRAWN		DATE	APPROVED BY	DATE
J.E. CHART		2/10/64	J.E. CHART	7604



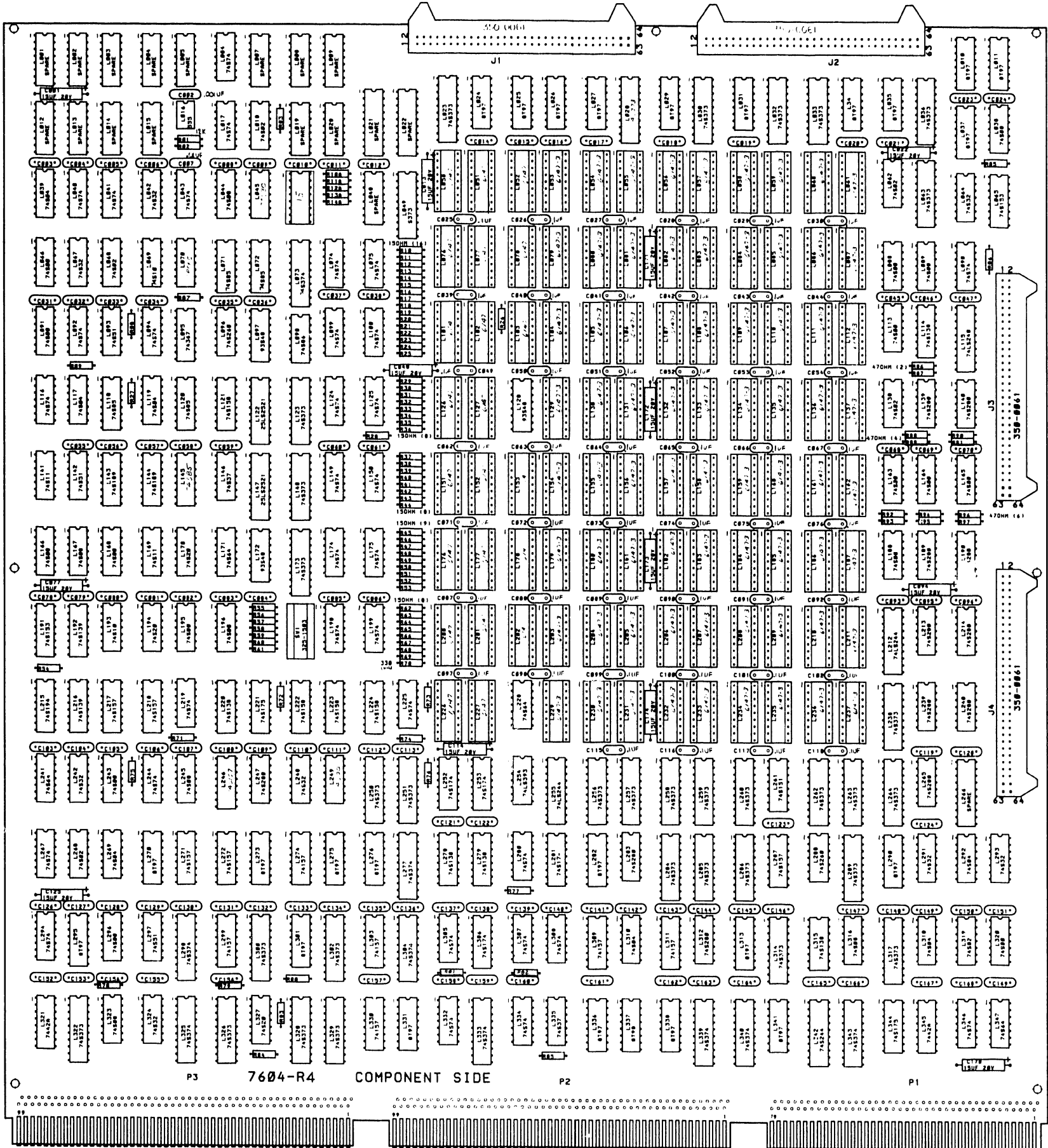
WANG		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	WWS	12/20/60	E LING	
	VS-100	LM		H LING	
TITLE CACHE MEMORY					
DRAWING NUMBER 7604 9					

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REVISION
1 SEE 307-0

- 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.



P3 7604-R4 COMPONENT SIDE P2 P1

WANG COMMUNICATIONS INC. 1000 WASHINGTON ST. CAMBRIDGE, MASS 02142		BY DWR	DATE 2-7-80	APPROVED BY M/ENG	DATE
MATERIAL	MODEL NO. U2-100	TITLE CACHE MEMORY		REV. 1	
FINISH		DR. HART	E	760+	
DRAWN BY		DATE	SIZE	DRAWING NUMBER	REV.

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

COMPONENT TYPE WL PART NO.

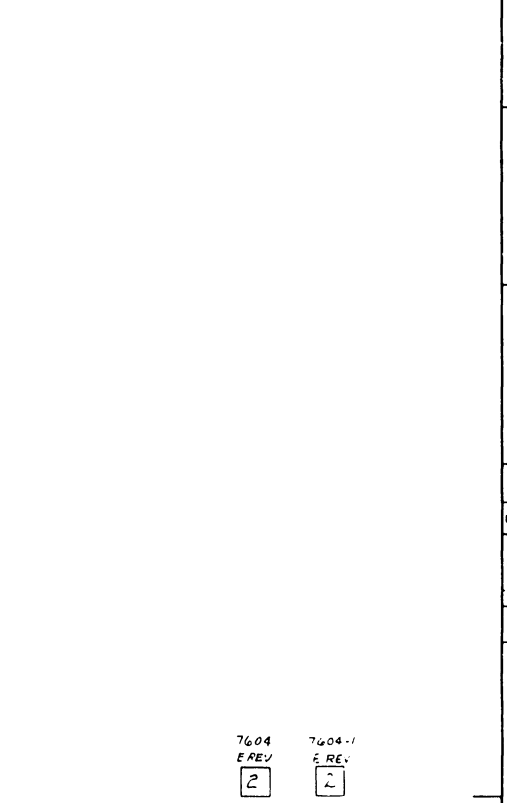
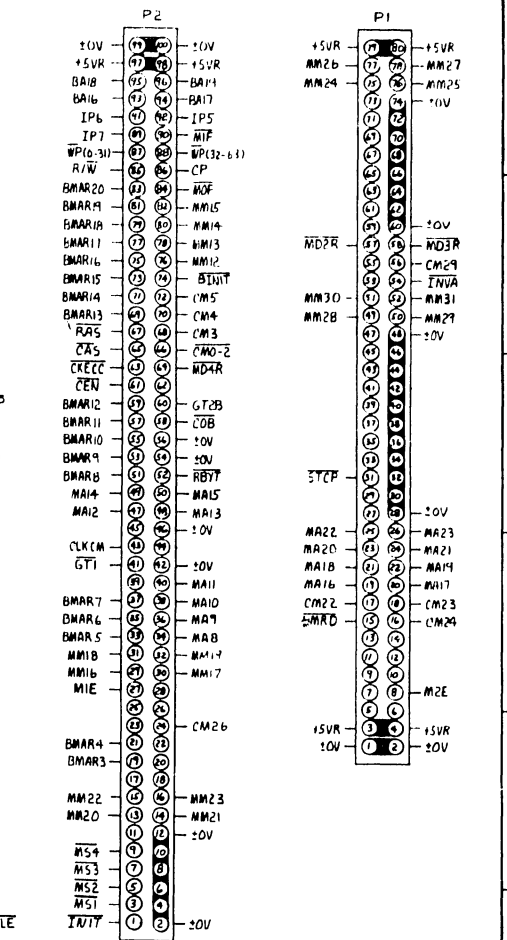
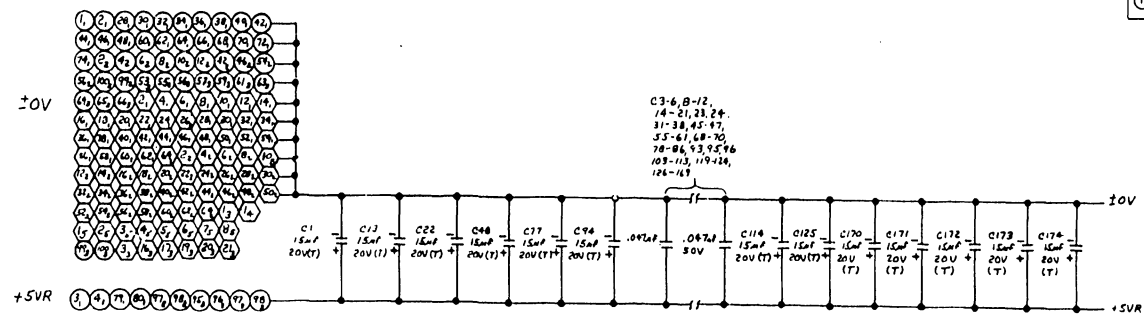
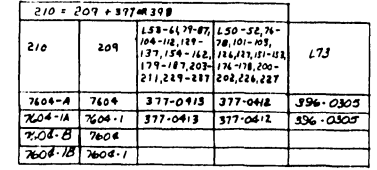
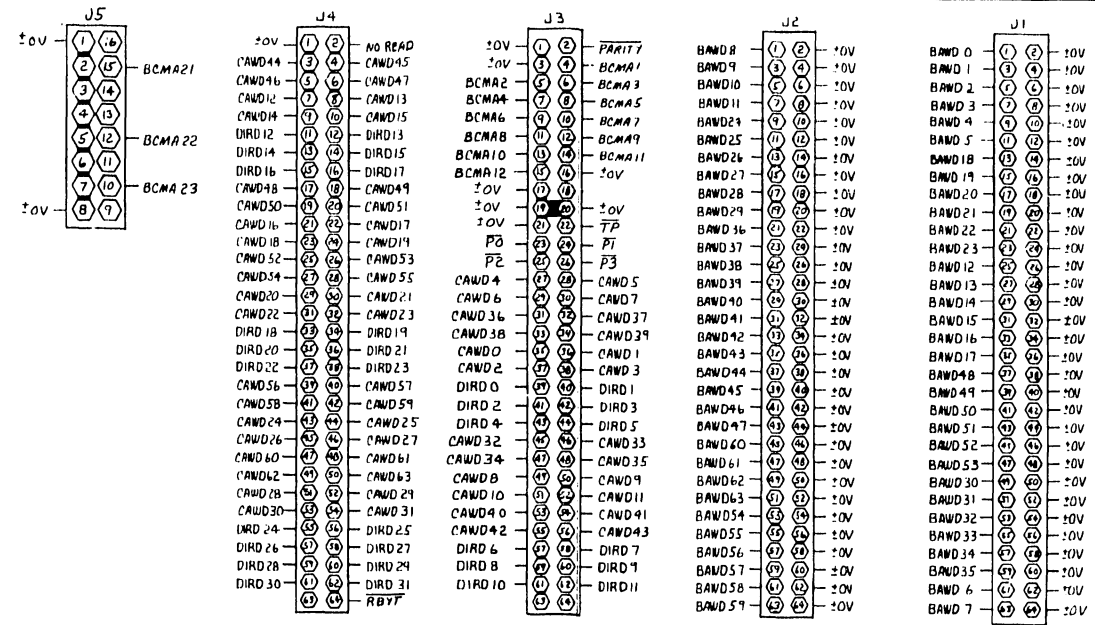
Table with 3 columns: COMPONENT, TYPE, WL PART NO. Lists various components like capacitors, resistors, and diodes with their part numbers.

Table with 3 columns: TYPE, LOCATION, SPARS. Lists component types and their locations on the board.

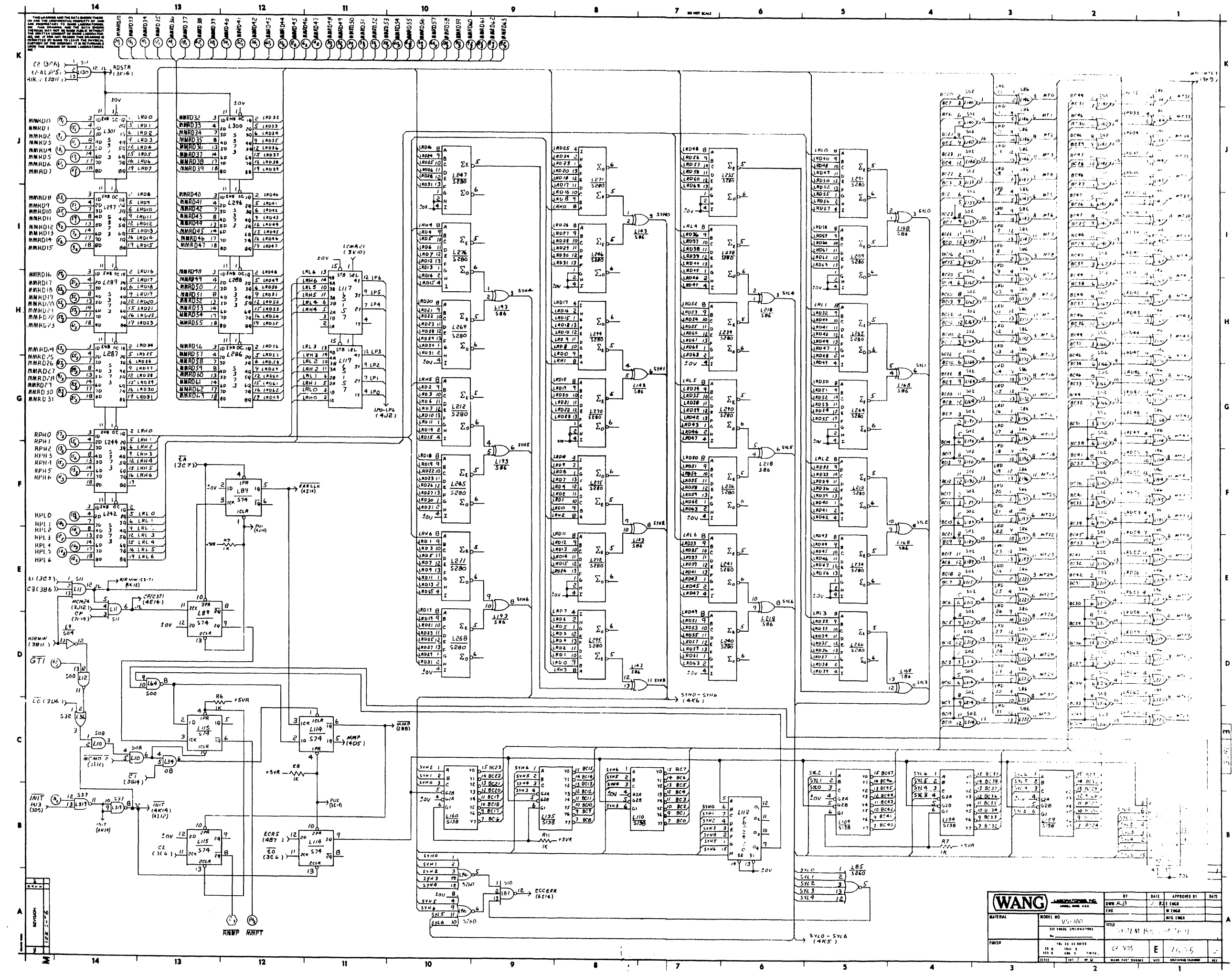
Table with 3 columns: COMPONENT, TYPE, WL PART NO. Lists components like resistors and diodes.

Table with 4 columns: ALPHABETICS, COORD, ALPHABETICS, COORD. Lists component callouts and their coordinates.

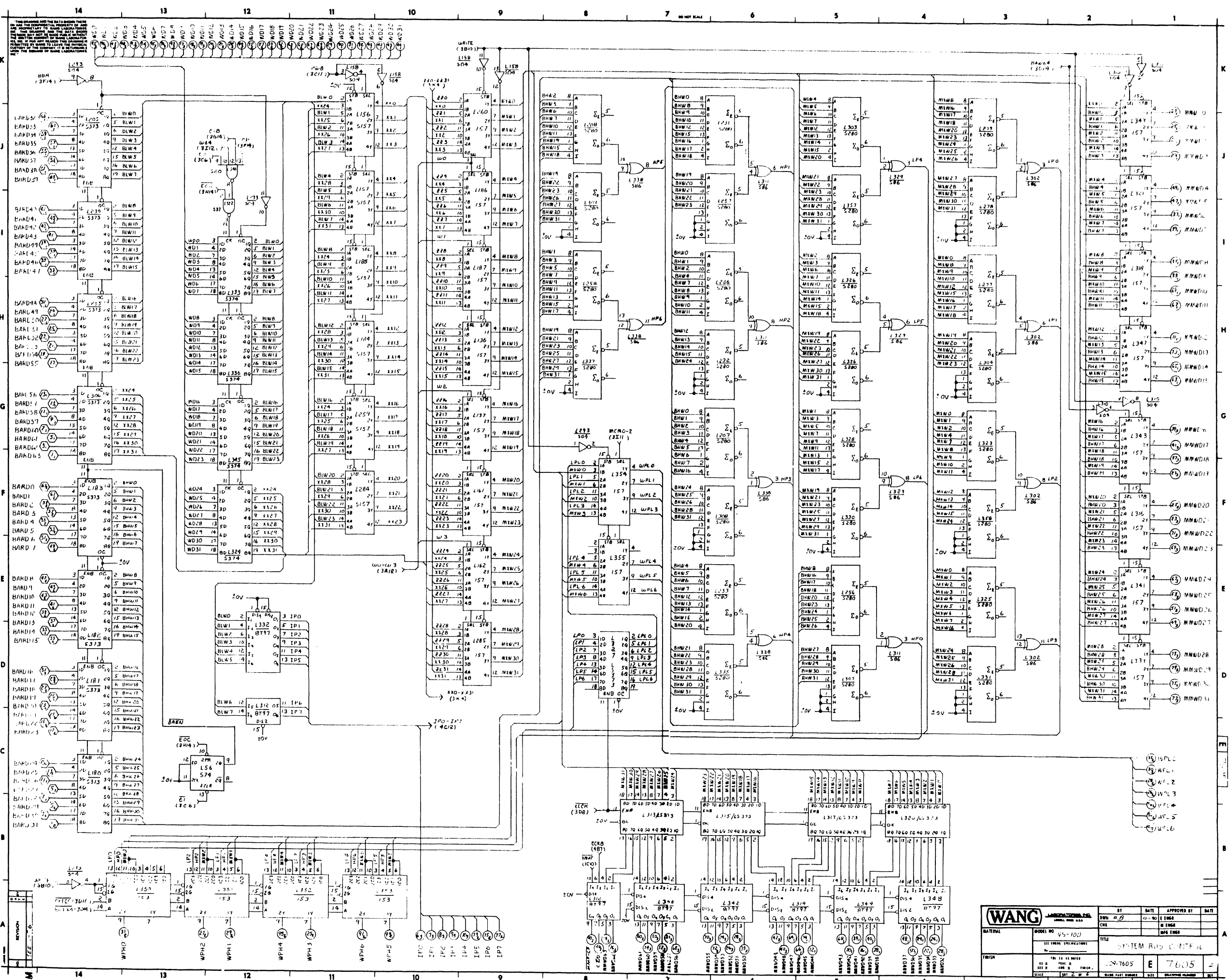
Table with 4 columns: REVISION, DATE, BY, APPROVED BY. Lists revision history for the document.



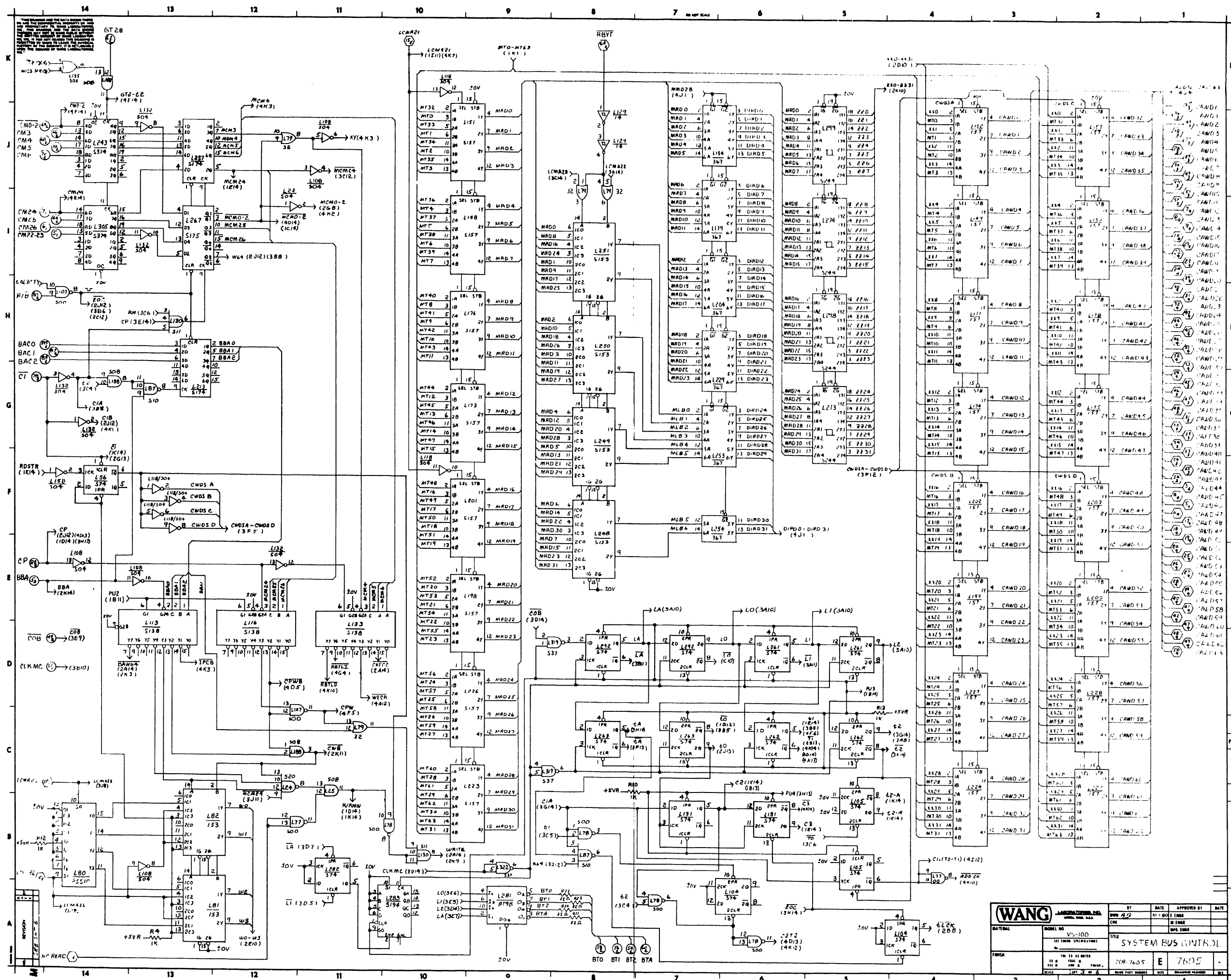
WANG logo and title block containing document information: MODEL NO V5-100, TITLE CACHE MEMORY, DATE 7604, EREV, BY 2, APPROVED BY 2.



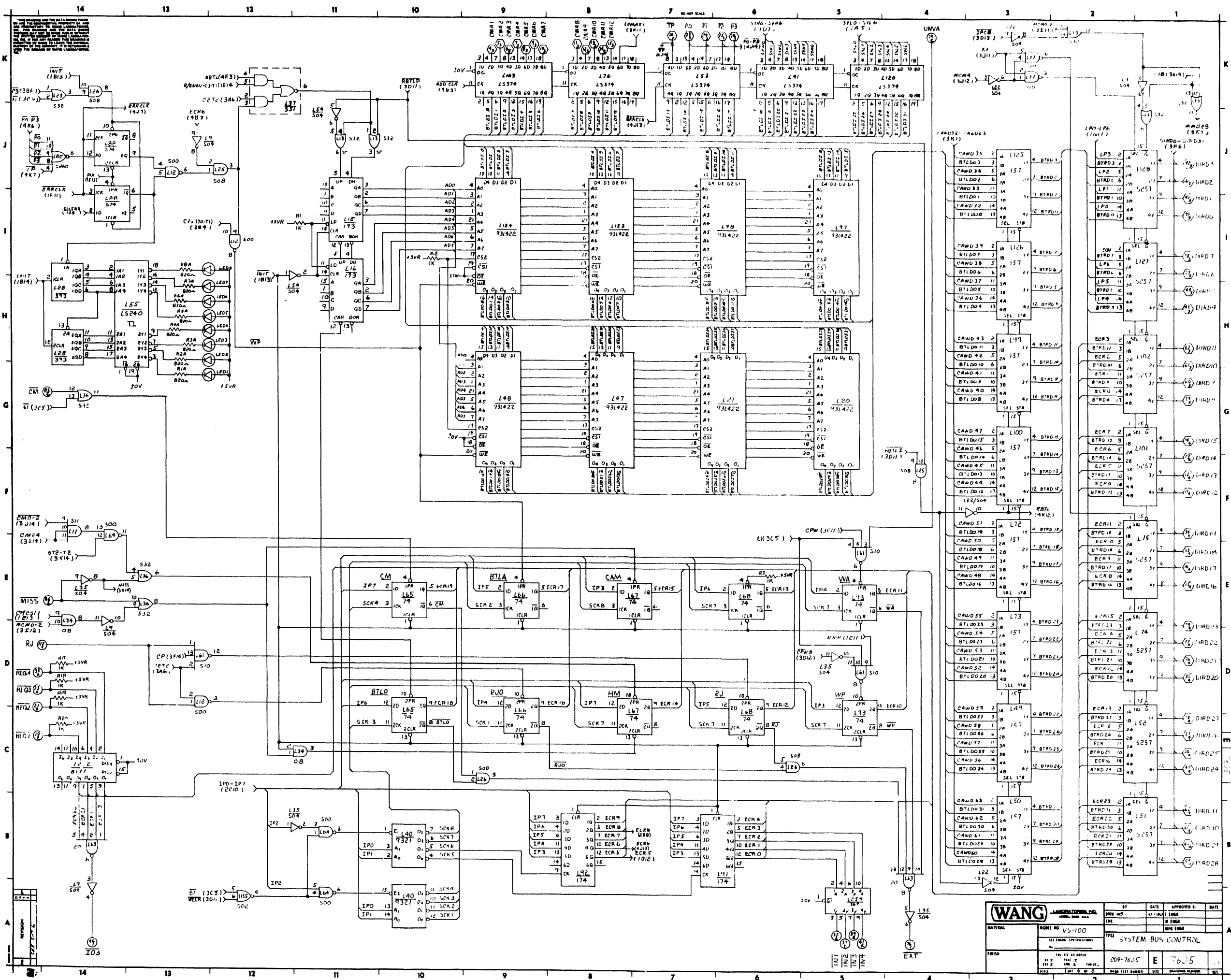
WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	DWY A-2	3 OCT 1964		
		ENG		MIC ENGR	
TITLE		720-100			
REV		E			
DATE		10/15/64			
DRAWN BY		D. J. BROWN			
CHECKED BY		D. J. BROWN			
APPROVED BY		D. J. BROWN			



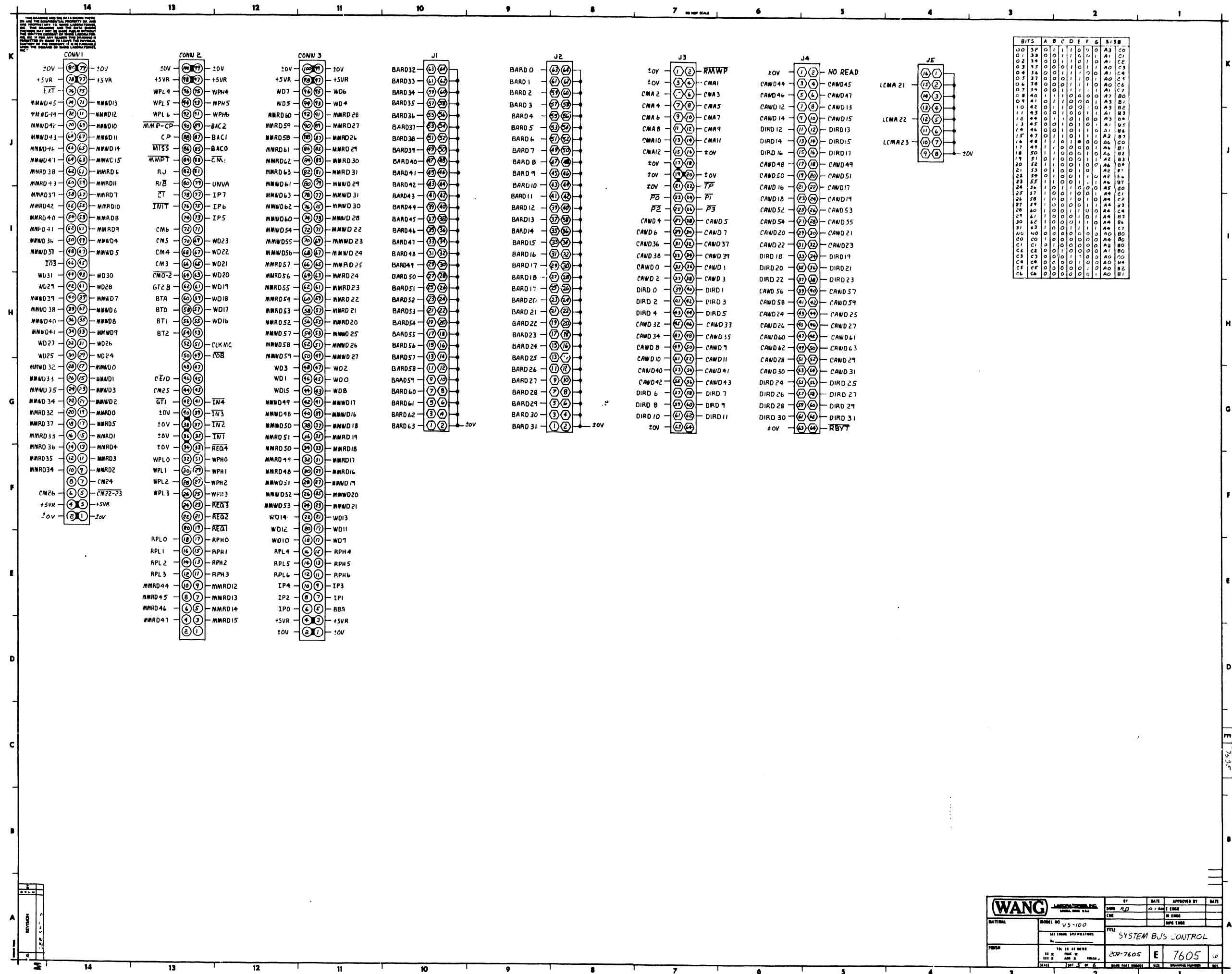
WANG CORPORATION LITTLE ROCK, ARK.		BY	DATE	APPROVED BY	DATE
MODEL NO	V5-100	OWN	NO.	DATE	
TITLE	SYSTEM BUS CONTROL	CHK		DATE	
DESIGNER		APP		DATE	
DATE	11-11-65	REV	7605	DATE	7-6-65
SCALE	1:1	DRN		DATE	



WANG		DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	DATE	BY	
	VJ-100	10/1/68	J. L. BIRD	
TITLE		DATE	BY	
SYSTEM BUS CONTROL		10/1/68	J. L. BIRD	
DRAWN		DATE	BY	
J. L. BIRD		10/1/68	J. L. BIRD	
CHECKED		DATE	BY	
E. 7605				



WANG LABORATORIES, INC.		DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. VS-100	DATE	DATE	DATE
SYSTEM BUS CONTROL		DATE	DATE	DATE
FINISH	DATE	DATE	DATE	DATE

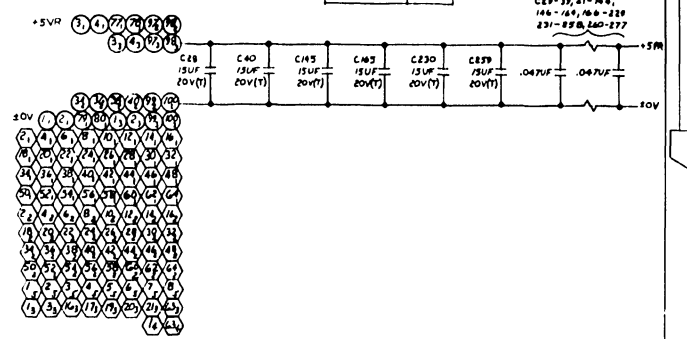


BITS	A	B	C	D	E	F	G	S1	S2
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01	38	0	1	1	1	0	0	A3	C1
02	38	0	1	1	1	0	0	A3	C2
03	38	0	1	1	1	0	0	A3	C3
04	38	0	1	1	1	0	0	A3	C4
05	38	0	1	1	1	0	0	A3	C5
06	38	0	1	1	1	0	0	A3	C6
07	38	0	1	1	1	0	0	A3	C7
08	38	0	1	1	1	0	0	A3	C8
09	38	0	1	1	1	0	0	A3	C9
10	38	0	1	1	1	0	0	A3	C10
11	38	0	1	1	1	0	0	A3	C11
12	38	0	1	1	1	0	0	A3	C12
13	38	0	1	1	1	0	0	A3	C13
14	38	0	1	1	1	0	0	A3	C14
15	38	0	1	1	1	0	0	A3	C15
16	38	0	1	1	1	0	0	A3	C16
17	38	0	1	1	1	0	0	A3	C17
18	38	0	1	1	1	0	0	A3	C18
19	38	0	1	1	1	0	0	A3	C19
20	38	0	1	1	1	0	0	A3	C20
21	38	0	1	1	1	0	0	A3	C21
22	38	0	1	1	1	0	0	A3	C22
23	38	0	1	1	1	0	0	A3	C23
24	38	0	1	1	1	0	0	A3	C24
25	38	0	1	1	1	0	0	A3	C25
26	38	0	1	1	1	0	0	A3	C26
27	38	0	1	1	1	0	0	A3	C27
28	38	0	1	1	1	0	0	A3	C28
29	38	0	1	1	1	0	0	A3	C29
30	38	0	1	1	1	0	0	A3	C30
31	38	0	1	1	1	0	0	A3	C31
32	38	0	1	1	1	0	0	A3	C32
33	38	0	1	1	1	0	0	A3	C33
34	38	0	1	1	1	0	0	A3	C34
35	38	0	1	1	1	0	0	A3	C35
36	38	0	1	1	1	0	0	A3	C36
37	38	0	1	1	1	0	0	A3	C37
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41	38	0	1	1	1	0	0	A3	C41
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43	38	0	1	1	1	0	0	A3	C43
44	38	0	1	1	1	0	0	A3	C44
45	38	0	1	1	1	0	0	A3	C45
46	38	0	1	1	1	0	0	A3	C46
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49	38	0	1	1	1	0	0	A3	C49
50	38	0	1	1	1	0	0	A3	C50
51	38	0	1	1	1	0	0	A3	C51
52	38	0	1	1	1	0	0	A3	C52
53	38	0	1	1	1	0	0	A3	C53
54	38	0	1	1	1	0	0	A3	C54
55	38	0	1	1	1	0	0	A3	C55
56	38	0	1	1	1	0	0	A3	C56
57	38	0	1	1	1	0	0	A3	C57
58	38	0	1	1	1	0	0	A3	C58
59	38	0	1	1	1	0	0	A3	C59
60	38	0	1	1	1	0	0	A3	C60
61	38	0	1	1	1	0	0	A3	C61
62	38	0	1	1	1	0	0	A3	C62
63	38	0	1	1	1	0	0	A3	C63
64	38	0	1	1	1	0	0	A3	C64

WANG LABORATORY, INC.		DATE	APPROVED BY	DATE
MODEL NO. VS-100		DATE	DATE	DATE
SERIAL NO.		DATE	DATE	DATE
TITLE		DATE	DATE	DATE
SYSTEM BUS CONTROL		DATE	DATE	DATE
200-7605		DATE	DATE	DATE
E 7605		DATE	DATE	DATE

COMPONENT **TYPE** **WL PART NO.**

R1A-BA	820A 1/4W 10%	330-0202
R21-24	22A 1/4W 10%	330-1022
R28,40,145, 165,230,254	15A 20V (1)	300-4022
R29,39,41- 144,146-148, 166-224,231- 258,260-277	OUTPUT 80V	300-1946
J1-J4	64 PIN CONN 50*	350-0940
J5	16 PIN DIP SKT	374-9002
LED1-8	LAMP, RED	370-0026
TYPE J.C. LOCATION SPARES		
74500	L107	2
74502	L155	2
74514	L2	1
	L22	2
	L35	2
	L54	4
	L108	1
	L132	1
	L158	1
	L293	2
	L310	2
7408	L34	1
	L28	2
	L25	1
74508	L108	1
74520	L24	1
	L346	1
74532	L13	1
	L23	1
74537	L322	2
74551	L37	1
74574	L282	1
	L193	1
	L210	1
74586	L311	1
	L329	1
7414	L129	4
8797	L252	1
8798	L281	1
TYPE J.C. LOCATION SPARES		
74514	L107	2
74502	L155	2
74514	L2	1
	L22	2
	L35	2
	L54	4
	L108	1
	L132	1
	L158	1
	L293	2
	L310	2
7408	L34	1
	L28	2
	L25	1
74508	L108	1
74520	L24	1
	L346	1
74532	L13	1
	L23	1
74537	L322	2
74551	L37	1
74574	L282	1
	L193	1
	L210	1
74586	L311	1
	L329	1
7414	L129	4
8797	L252	1
8798	L281	1



MEMORANDA **COORD**

BACO - BAC 2 3019

BARO - BARO 43 2619

BBA 3E14

BTA 3A7

BTO-BT2 3A8

BT 3614

CAWDO - CAWDO 63 3011

CELD 2A8

CLK MC 3014

COB 3014

CP 7E14

CP 7E14

CR 4G14

CR22-23 3E14

CM4 - CM6 3E14

CMO - E 3014

CM3 - CM6 3014

CMAI - CMAB 4K4

DMDO - DM31 4J1

EXP 4A4

GT1 1D14

GT2B 3K14

JP3 4A14

JP0 - JP7 1A10

JUT7 1B14

IVI - IV4 4A5

LCMA 21 3K10

LCMA 22 3B14

LCMA 23 3C14

MMPT 1A12

MMPTCB 2A8

NTSS 4E14

MMDO - MMDO 31 1J14

MMDO 32 1K14

MMDO - MMDO 31 2J1

MMDO 32 2A4

MMDO 43 2A4

NO READ 3A14

PO - P3 4K7

HJ 4H14

H7B 3H14

RMWP 1A12

REQ1 - REQ4 4D14

RPND - RPN6 1F14

NPLO - RNP6 1F14

RPV1 3A8

TP 4K7

UNVA 4K4

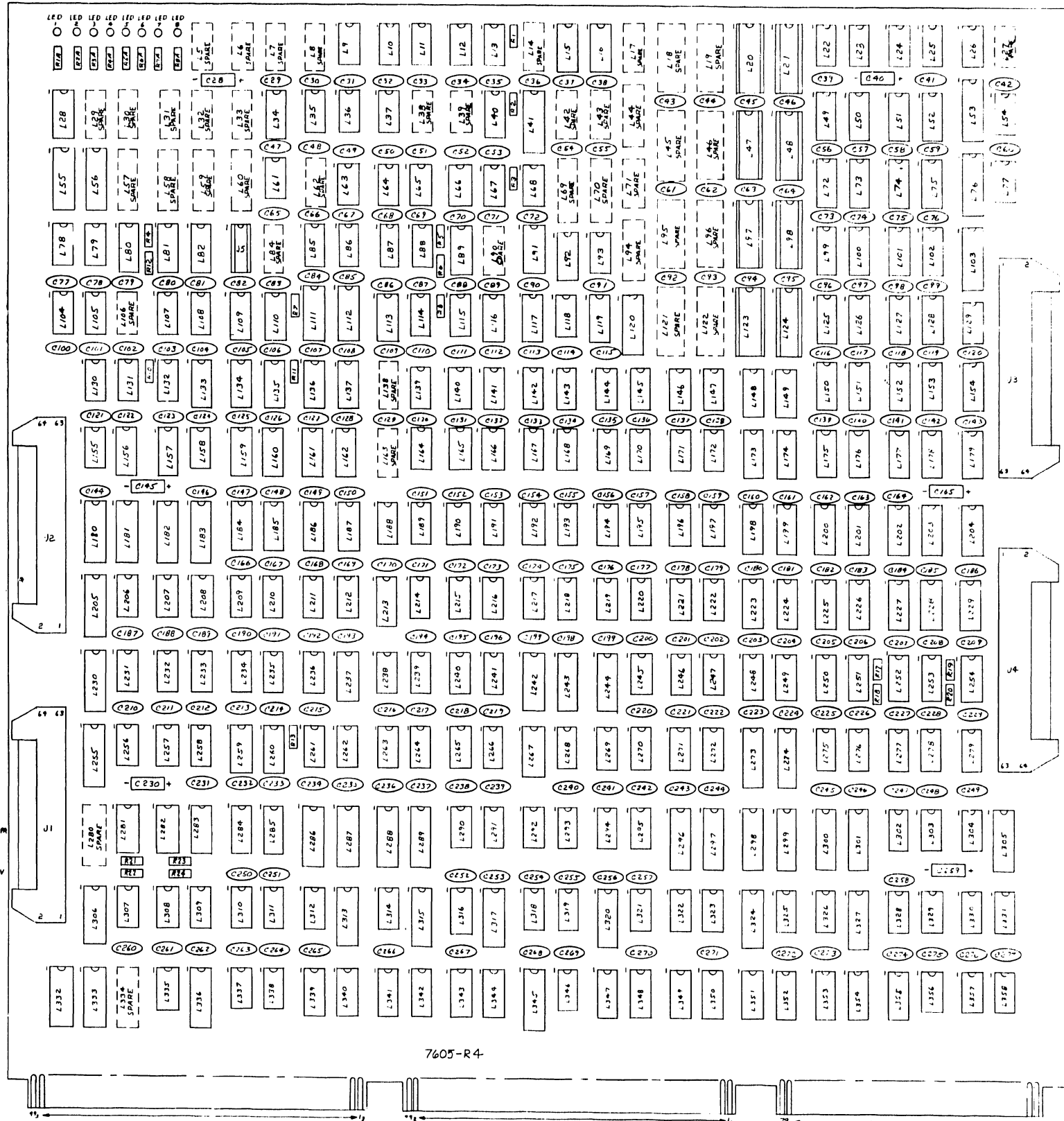
WPLO - WPL6 2C1

WRHO - WRH6 2A12

WDO - WD31 2K12

210 209 208 207 206 205 204 203 202 201

7605-A 7605 387-0384



WANG CORPORATION

MODEL NO 7605-R4

DATE APPROVED BY DATE

SYSTEM BUS CONTROL

7605-R4

7605-R4

NO.	REV.	DESCRIPTION	DATE
1		ISSUED FOR	
2		REVISED PER	
3		REVISED PER	
4		REVISED PER	
5		REVISED PER	
6		REVISED PER	
7		REVISED PER	
8		REVISED PER	
9		REVISED PER	
10		REVISED PER	
11		REVISED PER	
12		REVISED PER	
13		REVISED PER	
14		REVISED PER	

REVISION

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Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

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Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

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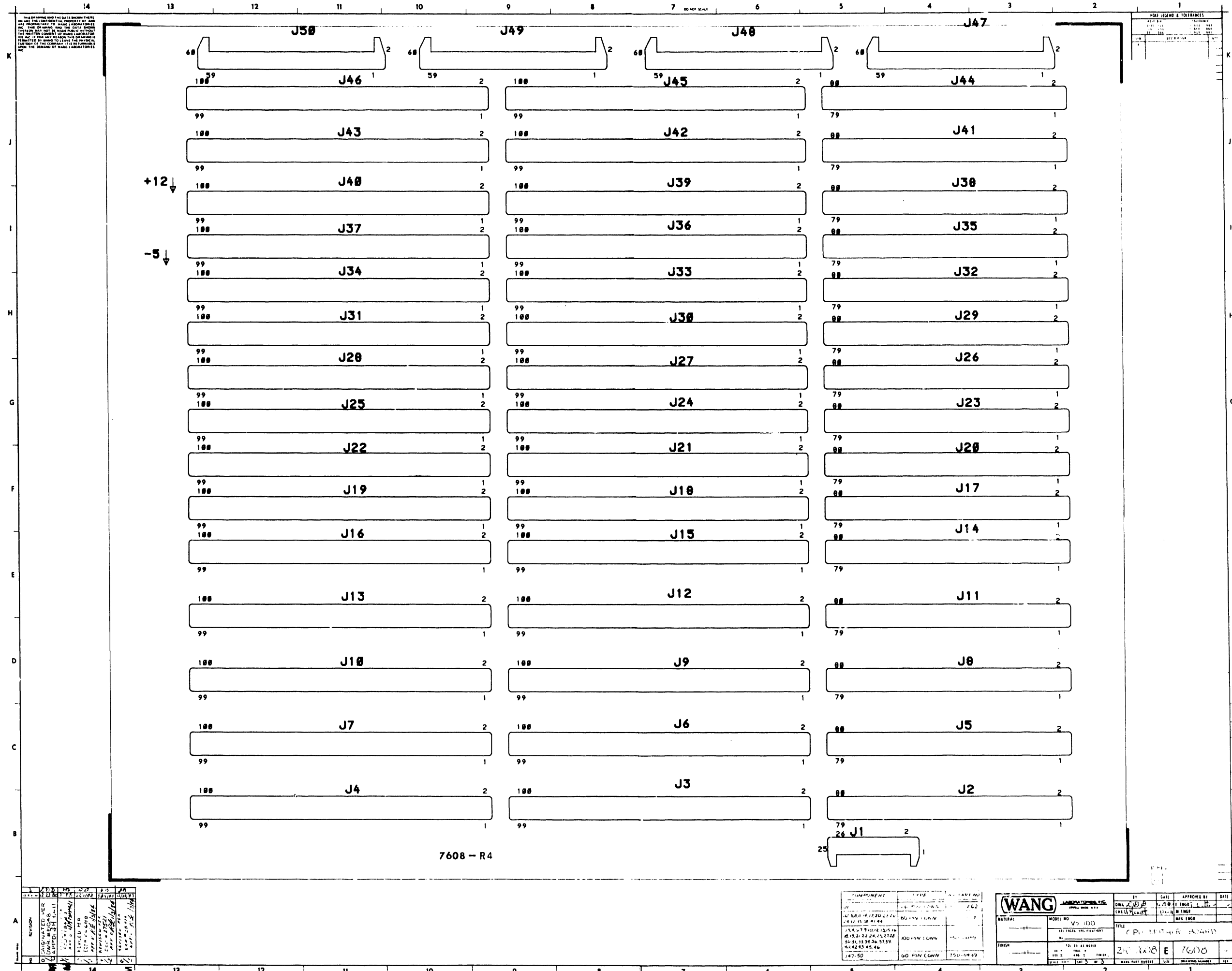
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Table with columns: REV, DATE, BY, CHECKED, APPR, TITLE. Includes revision history for items like '1.00', '1.01', '1.02'.

WANG logo and project information table including fields for MATERIAL, MODEL NO., DATE, APPROVED BY, etc.

WANG COMPUTER SYSTEMS, INC. (SHEET 10)



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HOLE LEGEND & TOLERANCES	
SIZE	TOLERANCE
0.125	±0.005
0.250	±0.005
0.375	±0.005
0.500	±0.005
0.625	±0.005
0.750	±0.005
0.875	±0.005
1.000	±0.005
1.125	±0.005
1.250	±0.005
1.375	±0.005
1.500	±0.005
1.625	±0.005
1.750	±0.005
1.875	±0.005
2.000	±0.005
2.125	±0.005
2.250	±0.005
2.375	±0.005
2.500	±0.005
2.625	±0.005
2.750	±0.005
2.875	±0.005
3.000	±0.005
3.125	±0.005
3.250	±0.005
3.375	±0.005
3.500	±0.005
3.625	±0.005
3.750	±0.005
3.875	±0.005
4.000	±0.005
4.125	±0.005
4.250	±0.005
4.375	±0.005
4.500	±0.005
4.625	±0.005
4.750	±0.005
4.875	±0.005
5.000	±0.005
5.125	±0.005
5.250	±0.005
5.375	±0.005
5.500	±0.005
5.625	±0.005
5.750	±0.005
5.875	±0.005
6.000	±0.005
6.125	±0.005
6.250	±0.005
6.375	±0.005
6.500	±0.005
6.625	±0.005
6.750	±0.005
6.875	±0.005
7.000	±0.005
7.125	±0.005
7.250	±0.005
7.375	±0.005
7.500	±0.005
7.625	±0.005
7.750	±0.005
7.875	±0.005
8.000	±0.005
8.125	±0.005
8.250	±0.005
8.375	±0.005
8.500	±0.005
8.625	±0.005
8.750	±0.005
8.875	±0.005
9.000	±0.005
9.125	±0.005
9.250	±0.005
9.375	±0.005
9.500	±0.005
9.625	±0.005
9.750	±0.005
9.875	±0.005
10.000	±0.005
10.125	±0.005
10.250	±0.005
10.375	±0.005
10.500	±0.005
10.625	±0.005
10.750	±0.005
10.875	±0.005
11.000	±0.005
11.125	±0.005
11.250	±0.005
11.375	±0.005
11.500	±0.005
11.625	±0.005
11.750	±0.005
11.875	±0.005
12.000	±0.005
12.125	±0.005
12.250	±0.005
12.375	±0.005
12.500	±0.005
12.625	±0.005
12.750	±0.005
12.875	±0.005
13.000	±0.005
13.125	±0.005
13.250	±0.005
13.375	±0.005
13.500	±0.005
13.625	±0.005
13.750	±0.005
13.875	±0.005
14.000	±0.005

REV.	DATE	DESCRIPTION	BY	CHKD.
1	11/11/79	ORIGINATED PER DWG. W-5048	W. J. WANG	
2	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
3	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
4	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
5	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
6	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
7	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
8	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
9	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
10	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
11	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
12	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
13	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	
14	11/11/79	REVISED PER DWG. W-5048	W. J. WANG	

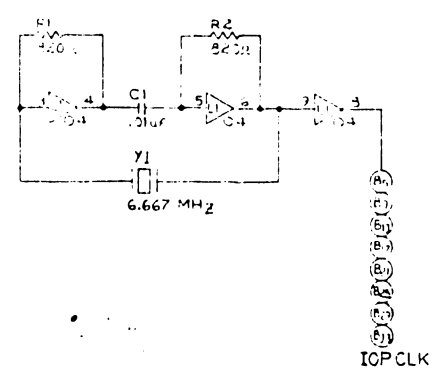
COMPONENT	TYPE	PART NO.
J1	90 PIN CONN	150-09 49
J2	90 PIN CONN	150-09 49
J3	90 PIN CONN	150-09 49
J4	90 PIN CONN	150-09 49
J5	90 PIN CONN	150-09 49
J6	90 PIN CONN	150-09 49
J7	90 PIN CONN	150-09 49
J8	90 PIN CONN	150-09 49
J9	90 PIN CONN	150-09 49
J10	90 PIN CONN	150-09 49
J11	90 PIN CONN	150-09 49
J12	90 PIN CONN	150-09 49
J13	90 PIN CONN	150-09 49
J14	90 PIN CONN	150-09 49
J15	90 PIN CONN	150-09 49
J16	90 PIN CONN	150-09 49
J17	90 PIN CONN	150-09 49
J18	90 PIN CONN	150-09 49
J19	90 PIN CONN	150-09 49
J20	90 PIN CONN	150-09 49
J21	90 PIN CONN	150-09 49
J22	90 PIN CONN	150-09 49
J23	90 PIN CONN	150-09 49
J24	90 PIN CONN	150-09 49
J25	90 PIN CONN	150-09 49
J26	90 PIN CONN	150-09 49
J27	90 PIN CONN	150-09 49
J28	90 PIN CONN	150-09 49
J29	90 PIN CONN	150-09 49
J30	90 PIN CONN	150-09 49
J31	90 PIN CONN	150-09 49
J32	90 PIN CONN	150-09 49
J33	90 PIN CONN	150-09 49
J34	90 PIN CONN	150-09 49
J35	90 PIN CONN	150-09 49
J36	90 PIN CONN	150-09 49
J37	90 PIN CONN	150-09 49
J38	90 PIN CONN	150-09 49
J39	90 PIN CONN	150-09 49
J40	90 PIN CONN	150-09 49
J41	90 PIN CONN	150-09 49
J42	90 PIN CONN	150-09 49
J43	90 PIN CONN	150-09 49
J44	90 PIN CONN	150-09 49
J45	90 PIN CONN	150-09 49
J46	90 PIN CONN	150-09 49
J47	90 PIN CONN	150-09 49

WANG COMMUNICATIONS INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. V5-100	D.W. WANG	11/11/79	W. J. WANG	11/11/79
TITLE	PC BOARD BOARD				
FINISH	2000				
DRAWING NUMBER		7608		E	

J40	J36	J32	J28	J24	J20	J16	J12	J8	J4
J39	J35	J31	J27	J23	J19	J15	J11	J7	J3
J38	J34	J30	J26	J22	J18	J14	J10	J6	J2
J37	J33	J29	J25	J21	J17	J13	J9	J5	J1

COMPONENT	TYPE	ALL PART NO.
R1,2	B20A 1/4W 5% 50	350-2583
C1	.01UF 100V	300-1914
C2	.0247UF 12V	300-1966
J1	PN SOCKET	370-0017
V1	6.667 MHZ	32-0021
J1-3, 3-40	50 PIN CONN	350-0439
J5, 10, 13, 14, 17, 18, 25, 26, 29, 30, 33, 34	30 PIN CONN	350-0011
J11, 16, 19, 23, 27, 31, 35	44 PIN CONN	350-0039
J12, 15, 20, 24, 28, 32, 36	44 PIN CONN	350-0021

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

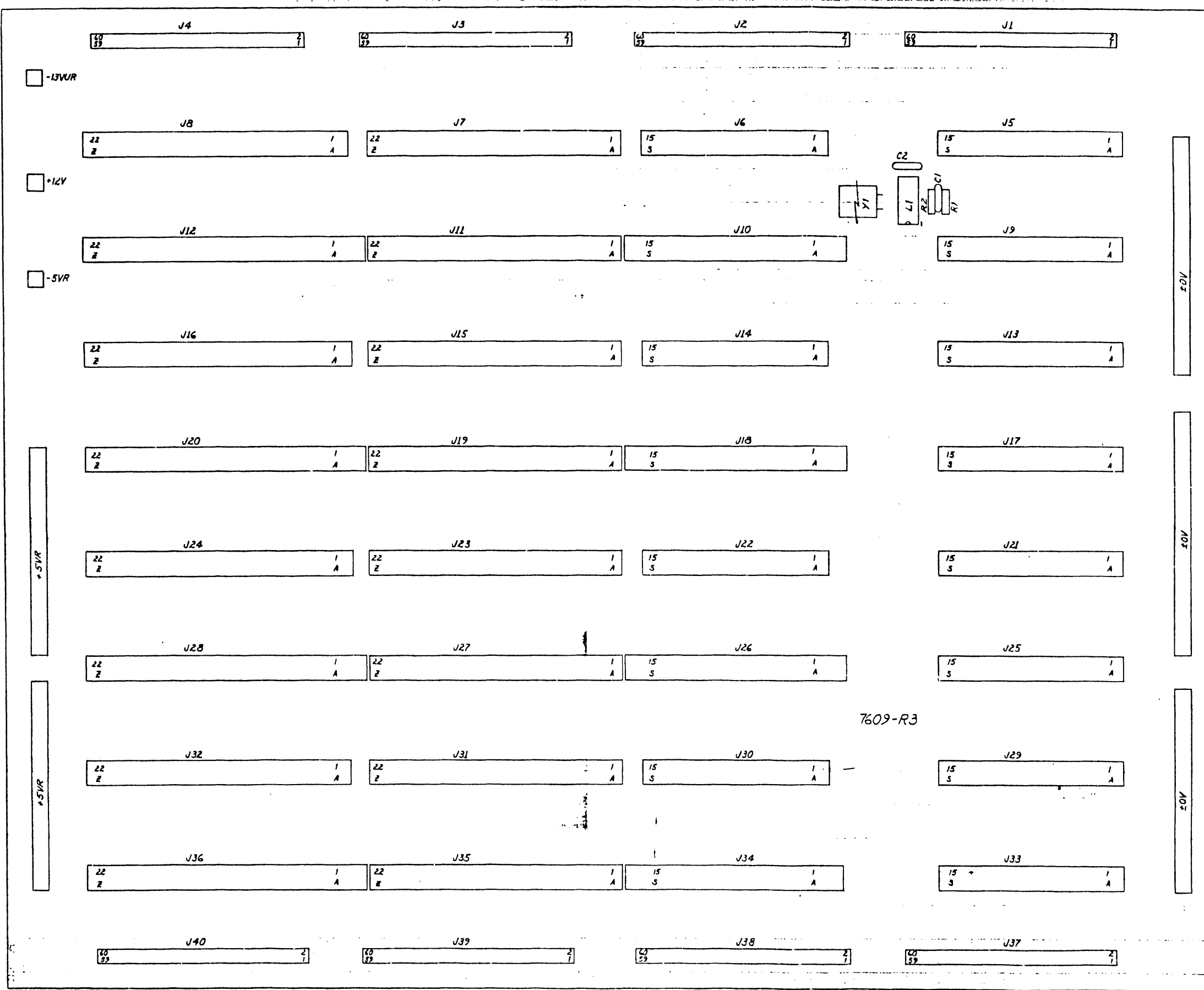


WANG		DATE	APPROVED BY
REV. 1	11-10-68	11-10-68	WANG
210 MOTHER BOARD		210-7608	
210-7608		7609	

8.5" 11" 17" 22" 34"

8.5" 11" 17" 22" 34"

These dimensions are for the data shown on this drawing. They are not to be used for any other purpose. The dimensions shown on this drawing are for the data shown on this drawing. They are not to be used for any other purpose.



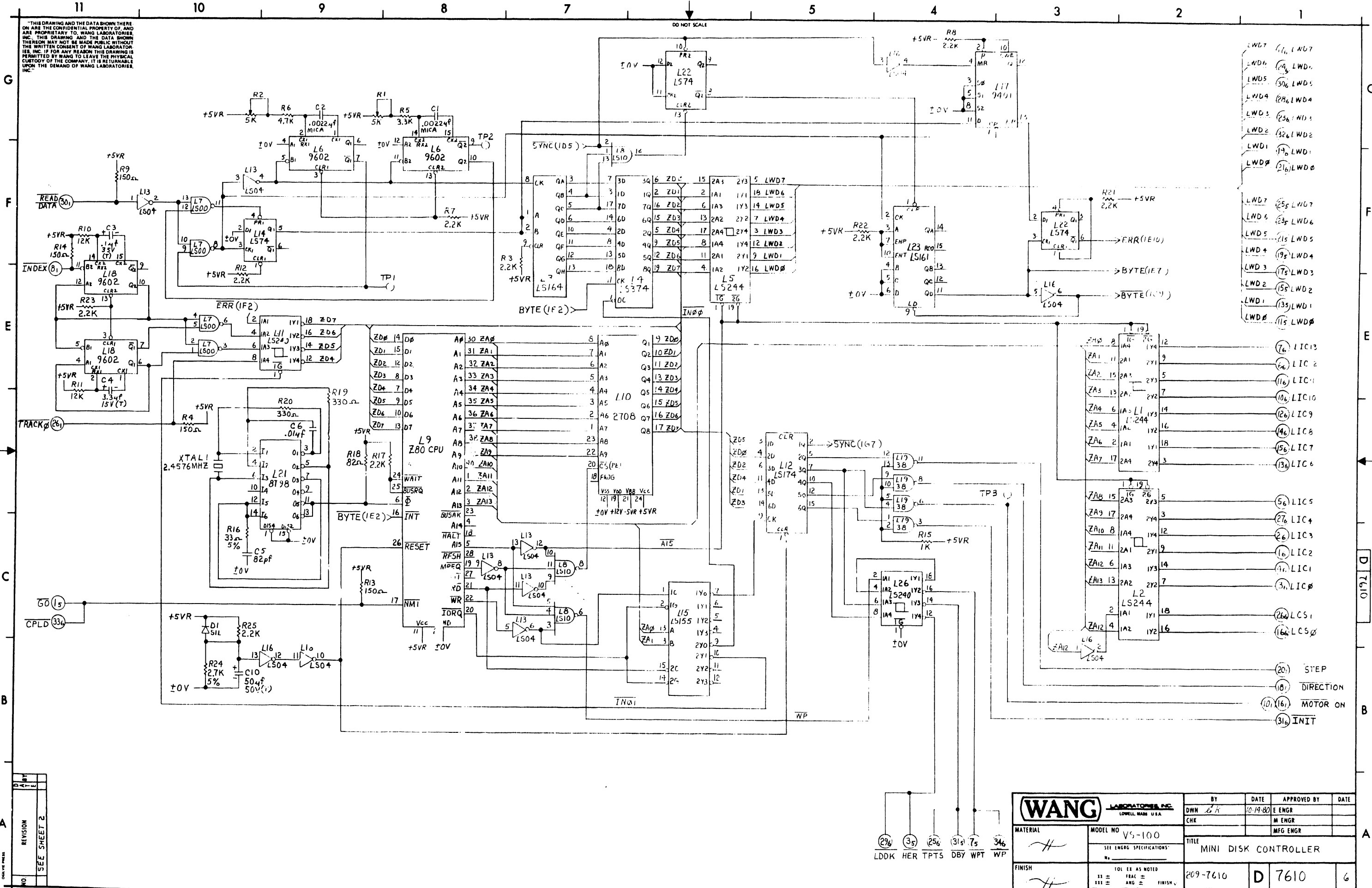
7609-R3

E-REV
L

WANG		REV	DATE	APPROVED BY	DATE
PARTIAL NO. 15-100		7609			
TITLE		MOTHER BOARD			
DRAWN BY		210-7609 E 7609			
CHECKED BY		3			

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DO NOT SCALE

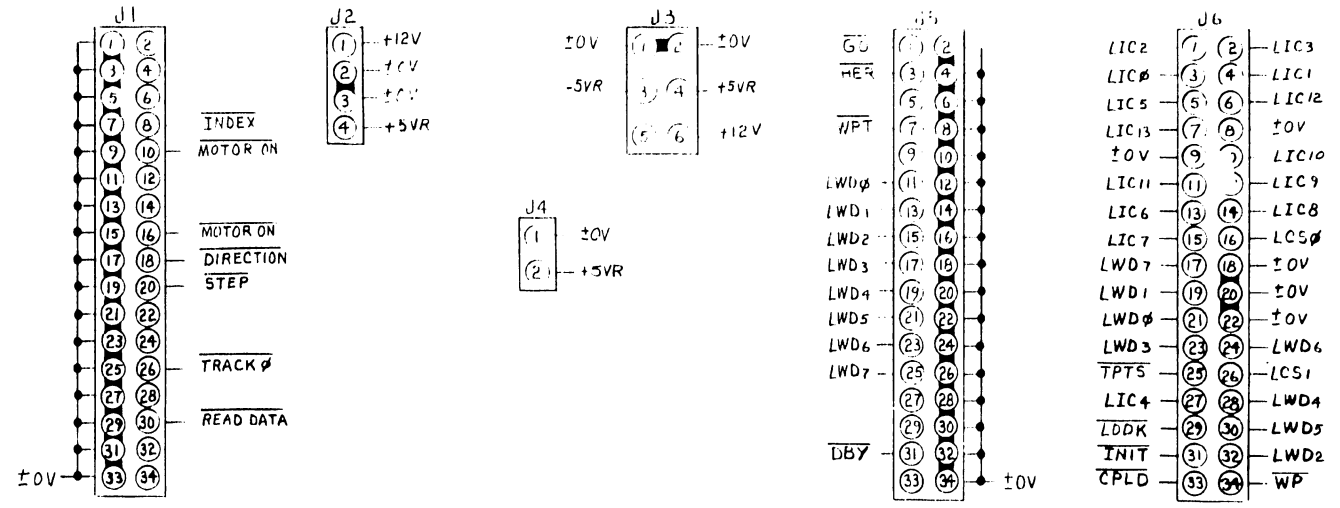
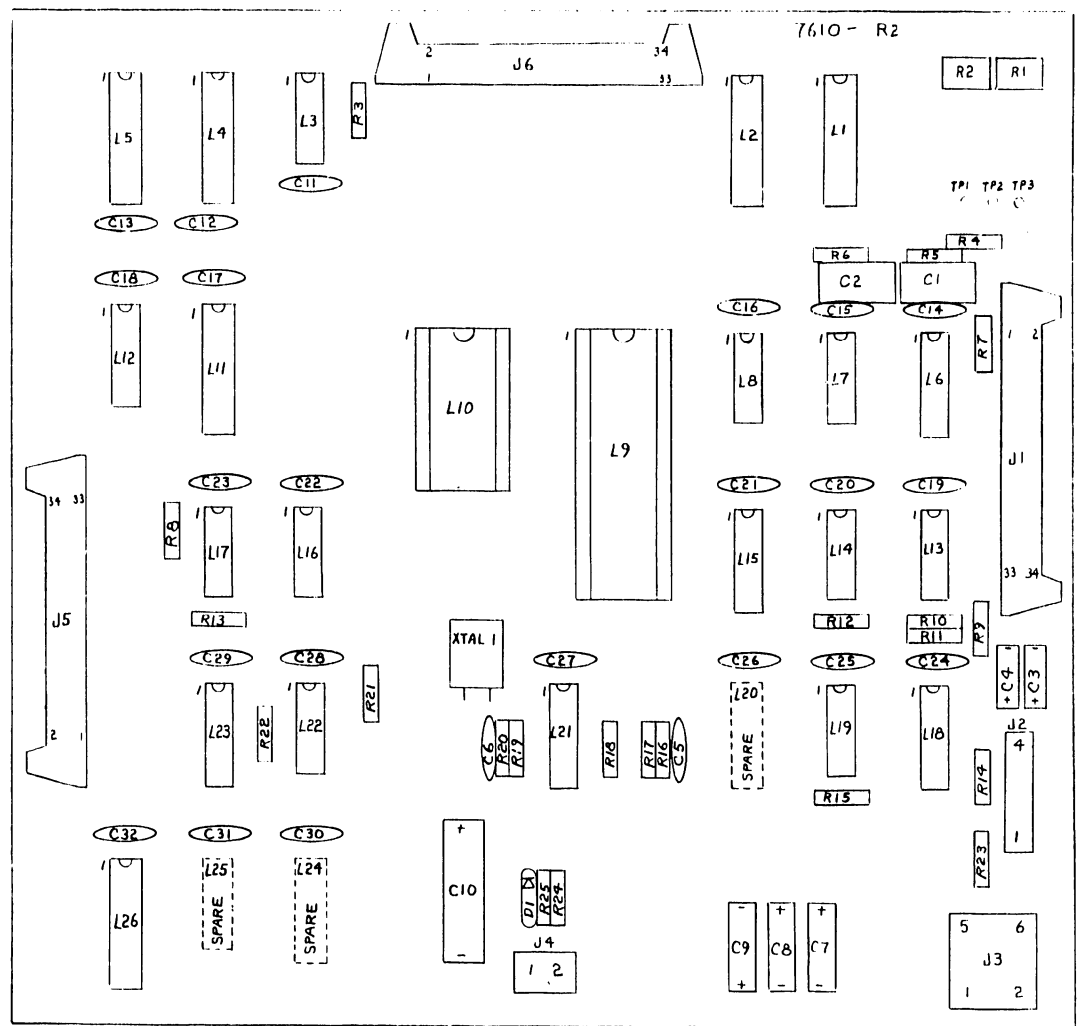


NO	REVISION
	SEE SHEET 2

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN	DATE 10-14-80	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

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DO NOT SCALE



MNEMONIC	COORD
CPTØ	IC11
DBY	1A4
DIRECTION	1B1
GD	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

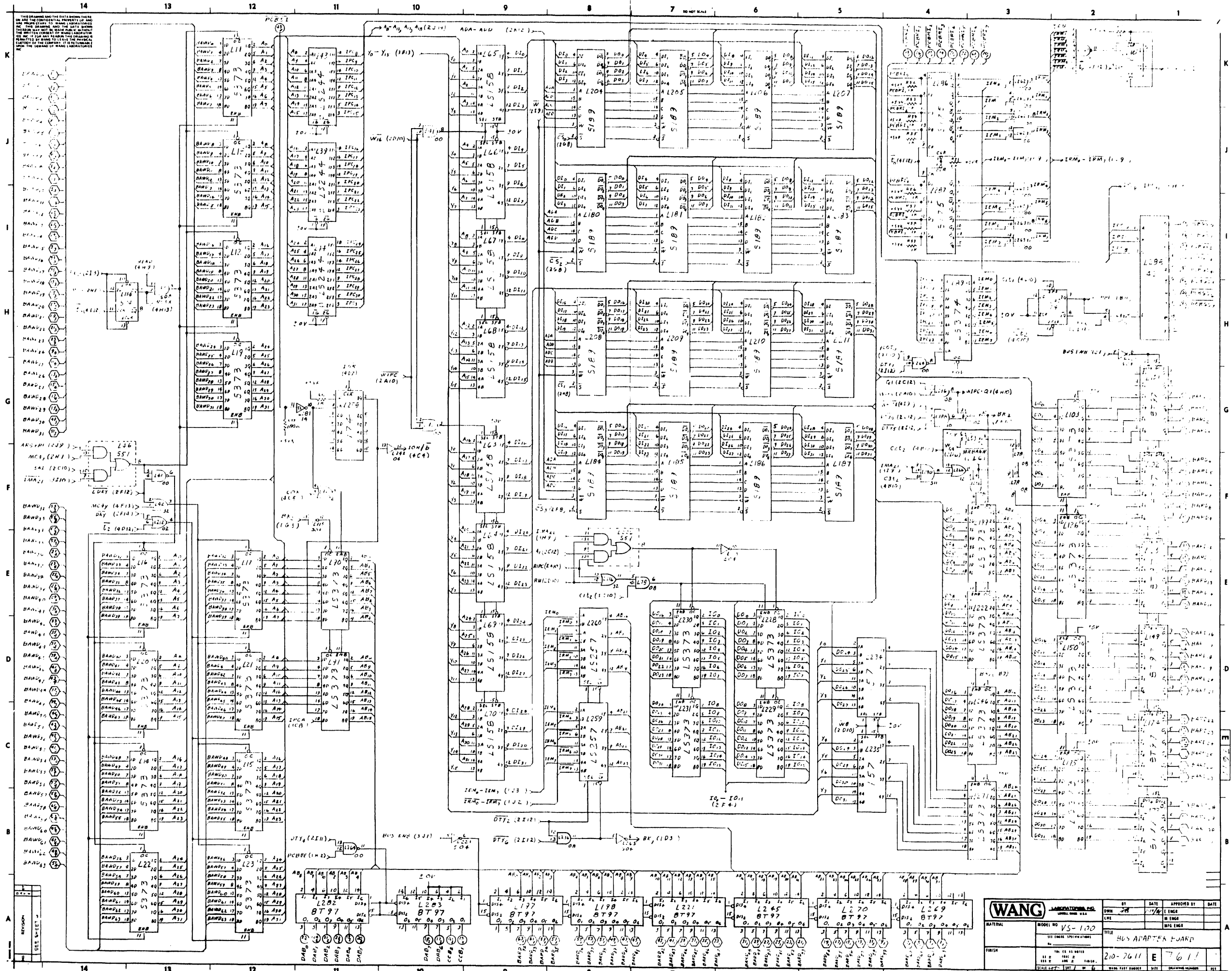
210 = 209 + 377 OR 378
7610-A 7610 377-0344 378-2592

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

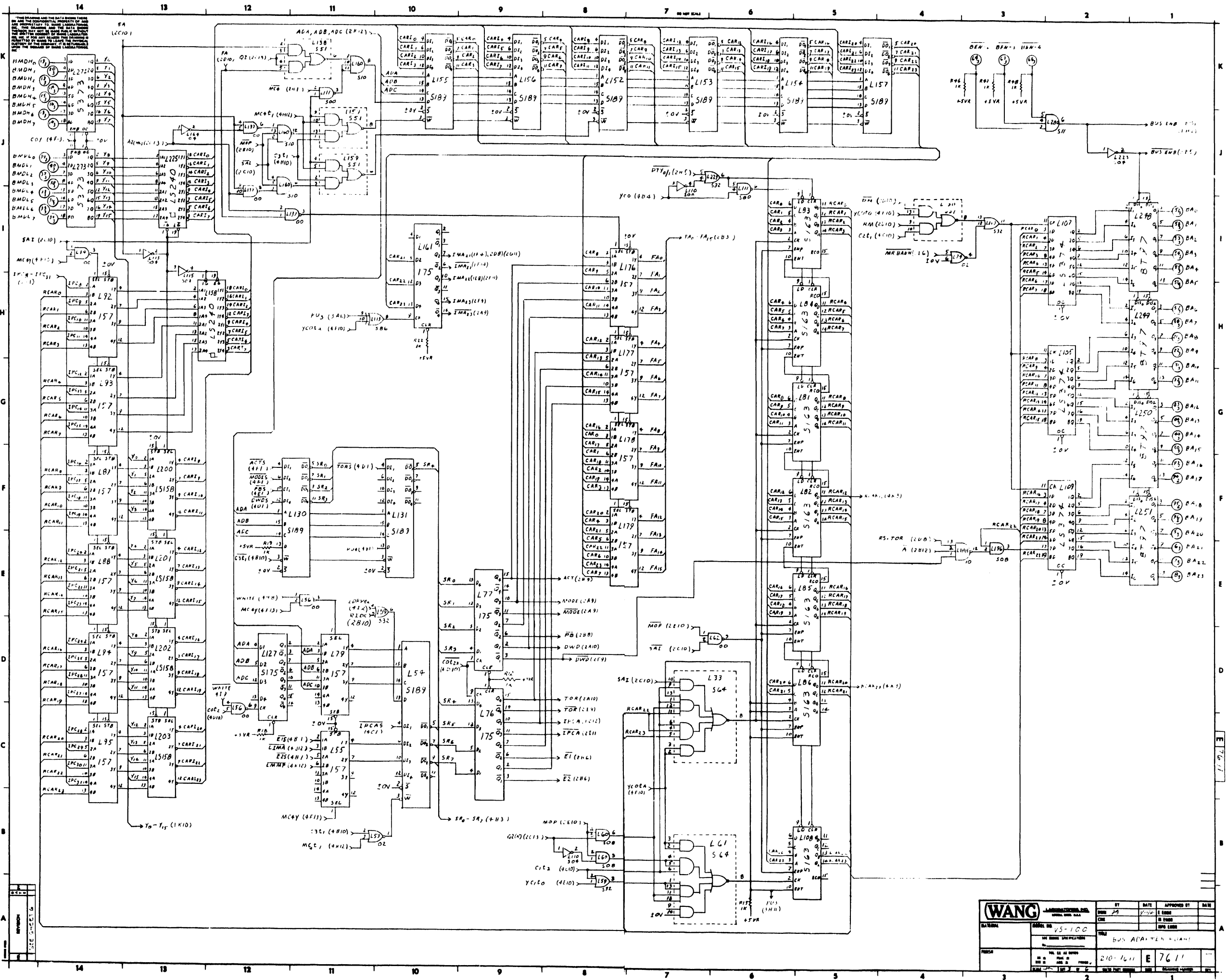
E-REV
0

NO.	REVISION	DATE	BY	CHK	APP'D.	DESCRIPTION
1	ORIGINATED PER DWG # 5130	10-16-80	TK			
2	REVISED PER ECN # 16877	12-31-80	TK			
3	REVISED PER ECO # 17435	12-31-80	TK			
4	REVISED PER ECO # 17435	12-31-80	TK			
5	REVISED PER ECO # 17435	12-31-80	TK			
6	REVISED PER ECO # 21505	12-31-80	TK			
7	REVISED PER ECO # 21505	12-31-80	TK			

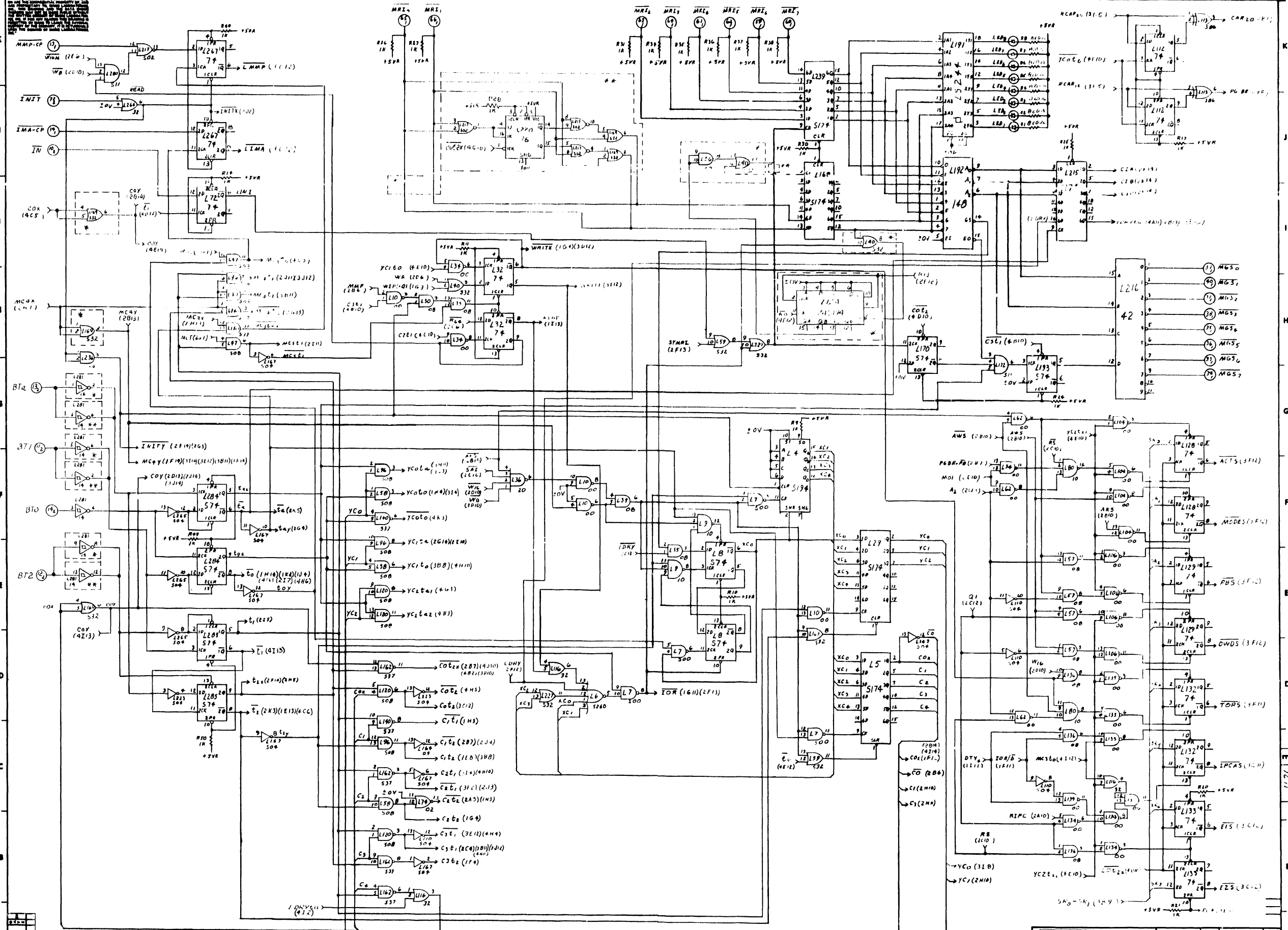
WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	10-16-80	E ENGR	10/20
MODEL NO. VS-100		CHK	11/20/80	M ENGR	
SEE ENGR SPECIFICATIONS		TITLE			
FINISH		MINI DISK CONTROLLER			
TOL EX AS NOTED		209-7610	D	7610	6
SCALE 1/8" = 1"		WANG PART NUMBER		SIZE	DRAWING NUMBER
SHEET 2 OF 2					



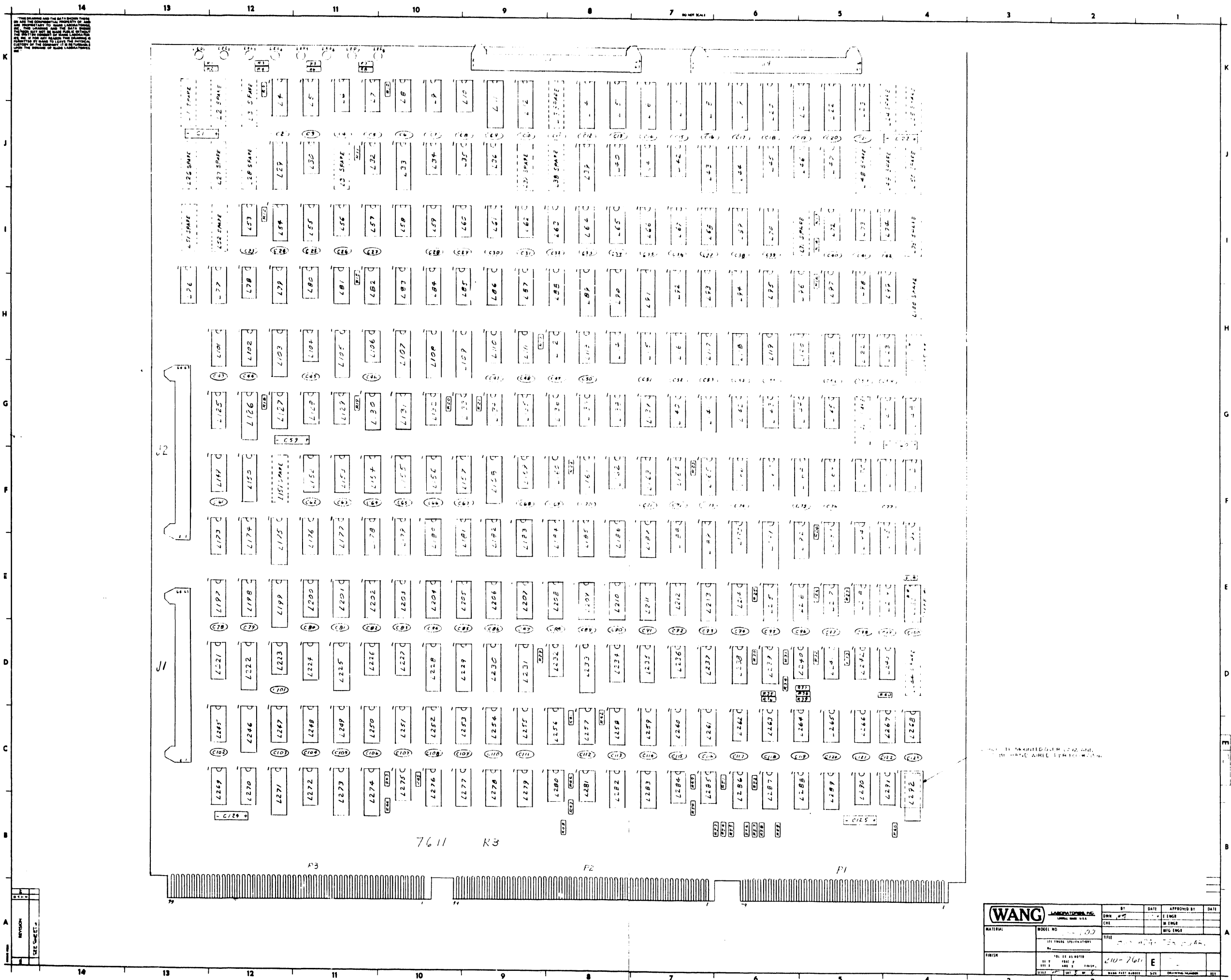
WANG LABORATORIES, INC.		BT	DATE	APPROVED BY	DATE
MODEL NO. VS-120		DATE	7/6/61	ENGINEER	
TITLE		CHKD		IN CHG	
BUS ADAPTER BOARD					
DRAWING NO.					
210-7611					
DATE					
7/6/61					
DRAWN BY					
BT					



WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO.	VS-100	CHKD BY	7/11/61	E. EMMETT	
TITL		CHKD BY			
BUS APART 4 CONT		DATE	7/11/61		
FIG. NO. OF DRAWING	210-1611	DESIGNED BY			
FIG. NO. OF SET	1	APPROVED BY			



WANG		DATE	BY	APPROVED BY	DATE
MODEL NO. VS-100					
NO. OF SHEETS		BUS ADAPTER BOARD		E 76/11	
REV. NO.		210-7611		E 76/11	



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REVISION	DATE	BY

WANG LABORATORIES, INC. LAWRENCE, MISSOURI		BY DWM	DATE 10/27	APPROVED BY 	DATE
MATERIAL	MODEL NO. 	TITLE 			
FINISH					

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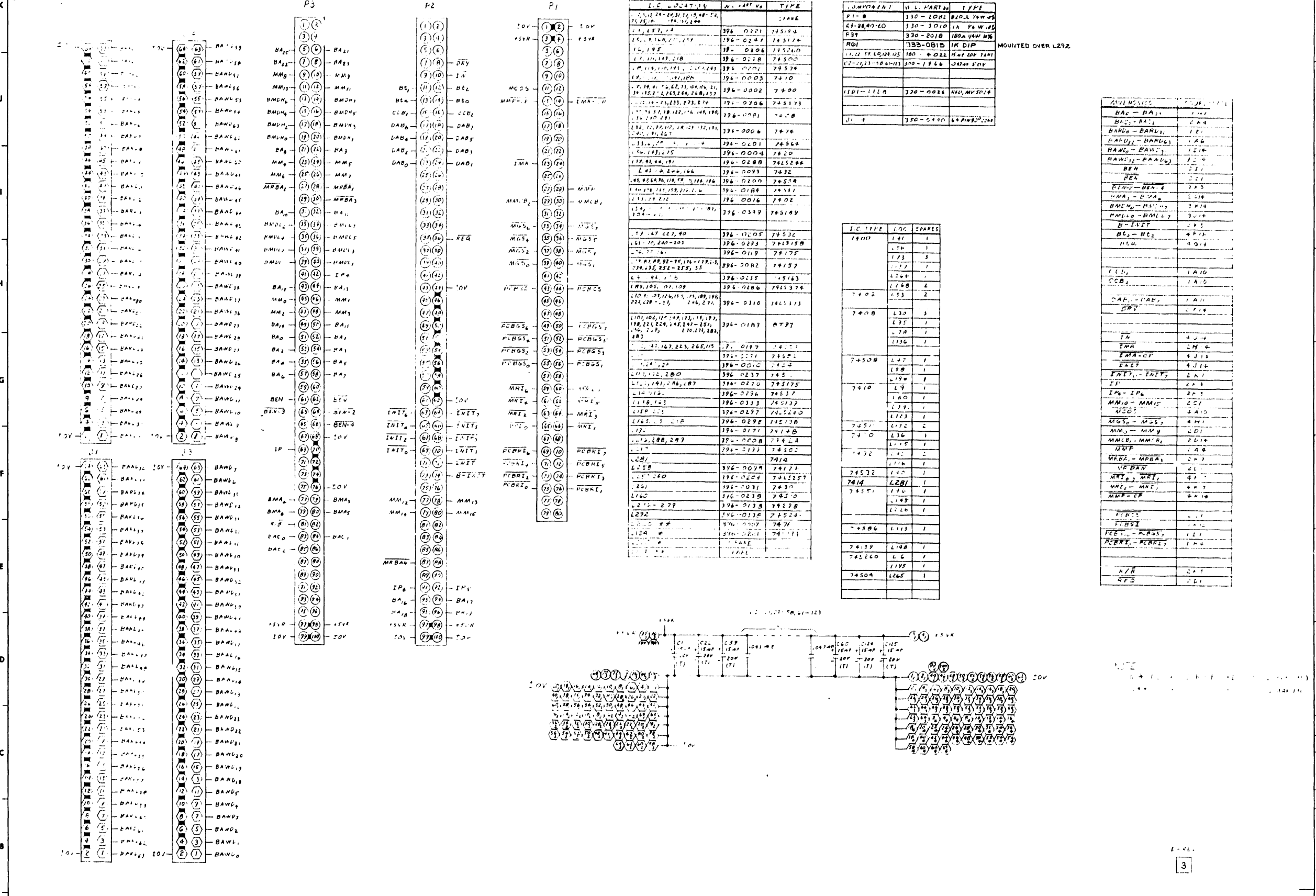
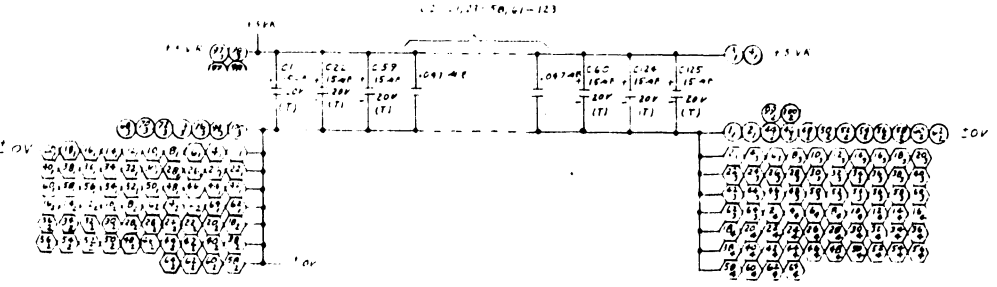


Table with 3 columns: I.C. LOC, PART NO, TYPE. Lists various integrated circuits and their specifications.

Table with 3 columns: COMPONENT, M.L. PART NO, TYPE. Lists components and their manufacturer part numbers.

Table with 3 columns: I.C. TYPE, LOC, SPARES. Lists IC types, their locations, and spare quantities.

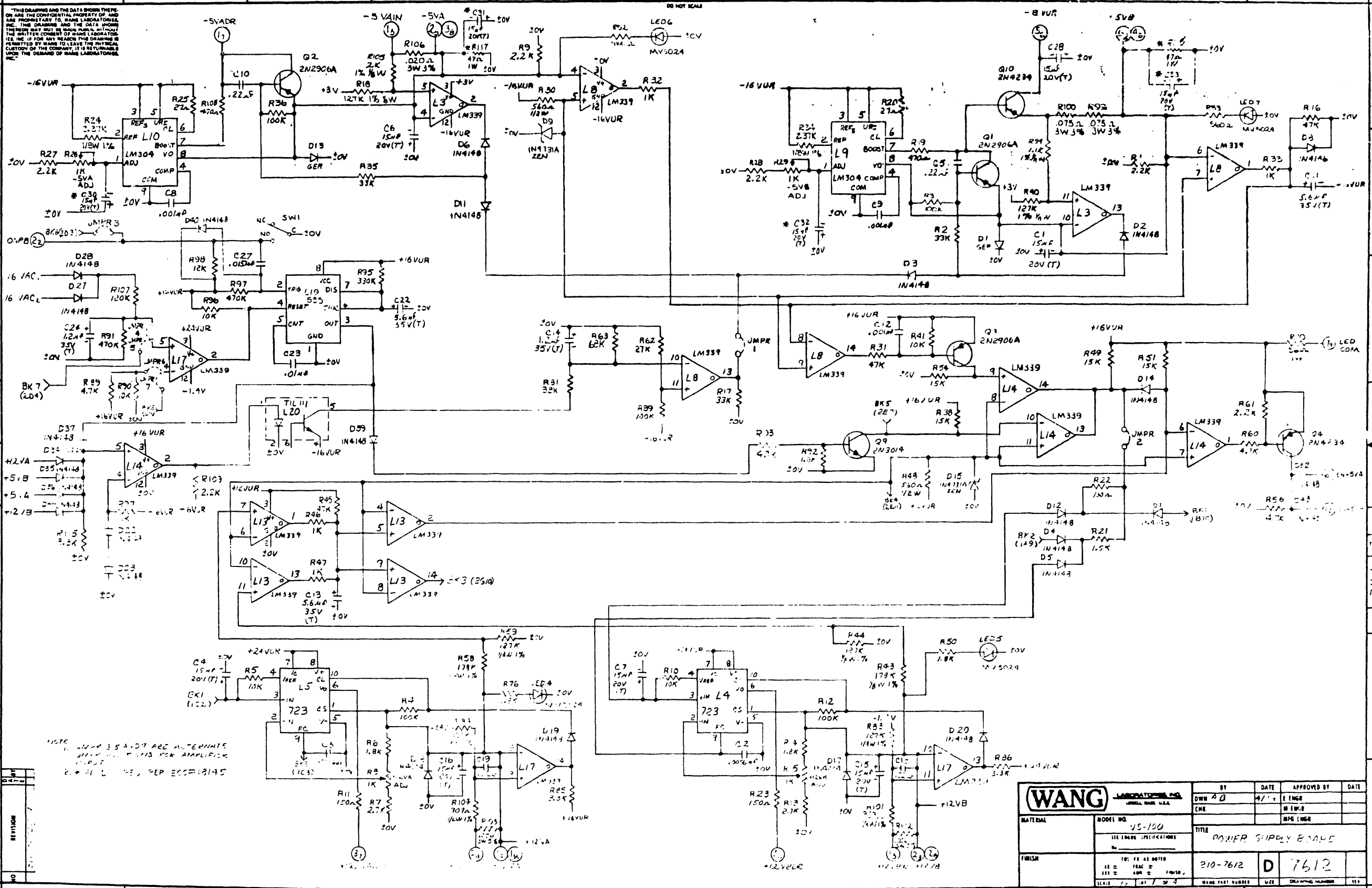
Table with 2 columns: COMPONENT, QUANTITY. Lists components and their required quantities.



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

WANG LABORATORIES, INC. drawing header form containing material, model, title, and date information.

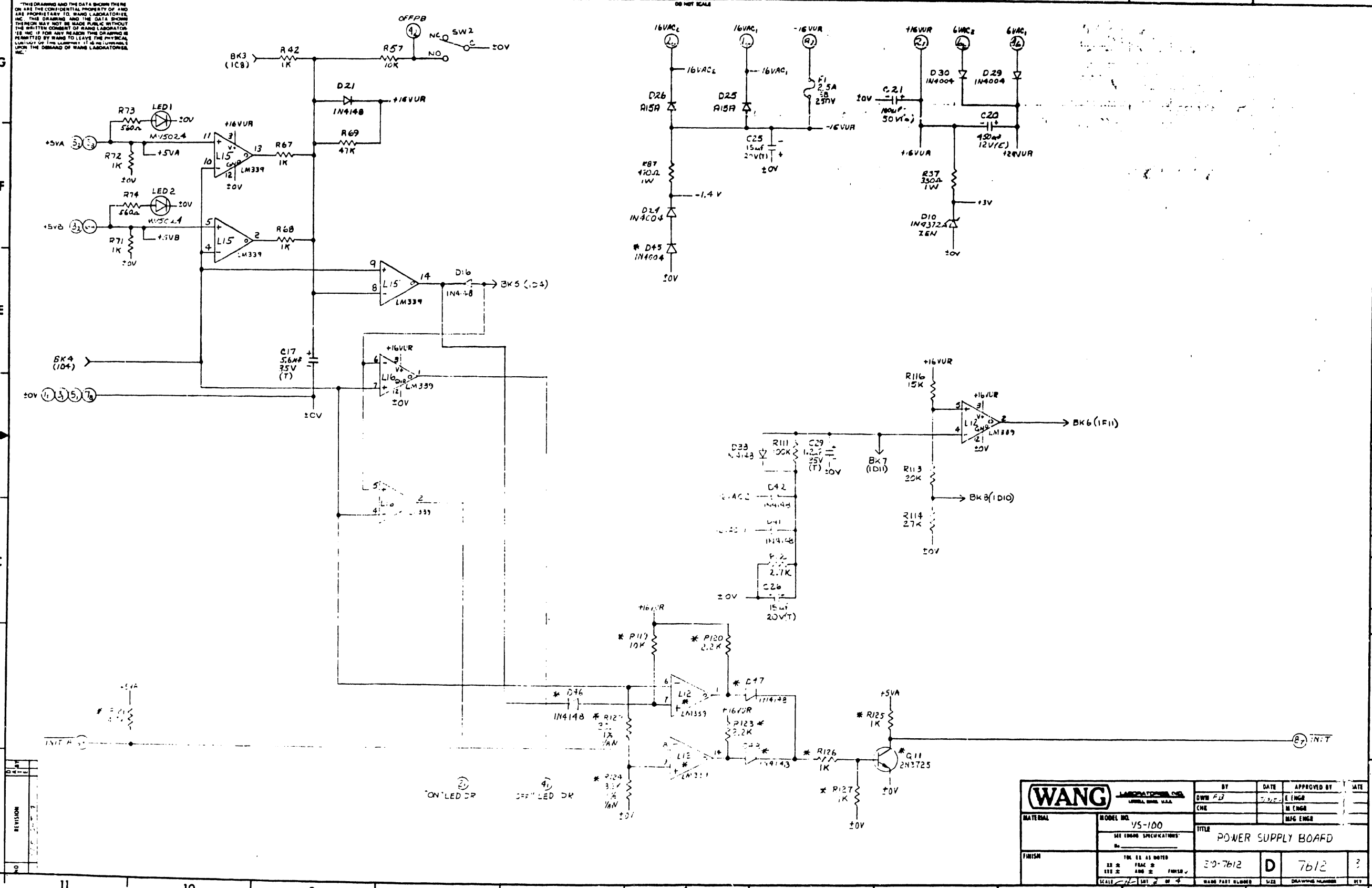
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REV	DATE	DESCRIPTION
1		

WANG LABORATORIES, INC. WALTHAM, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO.	DWH	4/77	E. ENGR.	
	VS-150	CHK		M. ENGR.	
	SEE ENGR. SPECIFICATIONS			MFG ENGR.	
FINISH	10: 15: 20: 25: 30: 35: 40: 45: 50: 55: 60: 65: 70: 75: 80: 85: 90: 95: 100: 105: 110: 115: 120: 125: 130: 135: 140: 145: 150: 155: 160: 165: 170: 175: 180: 185: 190: 195: 200: 205: 210: 215: 220: 225: 230: 235: 240: 245: 250: 255: 260: 265: 270: 275: 280: 285: 290: 295: 300: 305: 310: 315: 320: 325: 330: 335: 340: 345: 350: 355: 360: 365: 370: 375: 380: 385: 390: 395: 400: 405: 410: 415: 420: 425: 430: 435: 440: 445: 450: 455: 460: 465: 470: 475: 480: 485: 490: 495: 500: 505: 510: 515: 520: 525: 530: 535: 540: 545: 550: 555: 560: 565: 570: 575: 580: 585: 590: 595: 600: 605: 610: 615: 620: 625: 630: 635: 640: 645: 650: 655: 660: 665: 670: 675: 680: 685: 690: 695: 700: 705: 710: 715: 720: 725: 730: 735: 740: 745: 750: 755: 760: 765: 770: 775: 780: 785: 790: 795: 800: 805: 810: 815: 820: 825: 830: 835: 840: 845: 850: 855: 860: 865: 870: 875: 880: 885: 890: 895: 900: 905: 910: 915: 920: 925: 930: 935: 940: 945: 950: 955: 960: 965: 970: 975: 980: 985: 990: 995: 1000	TITLE	210-7612	D	7612

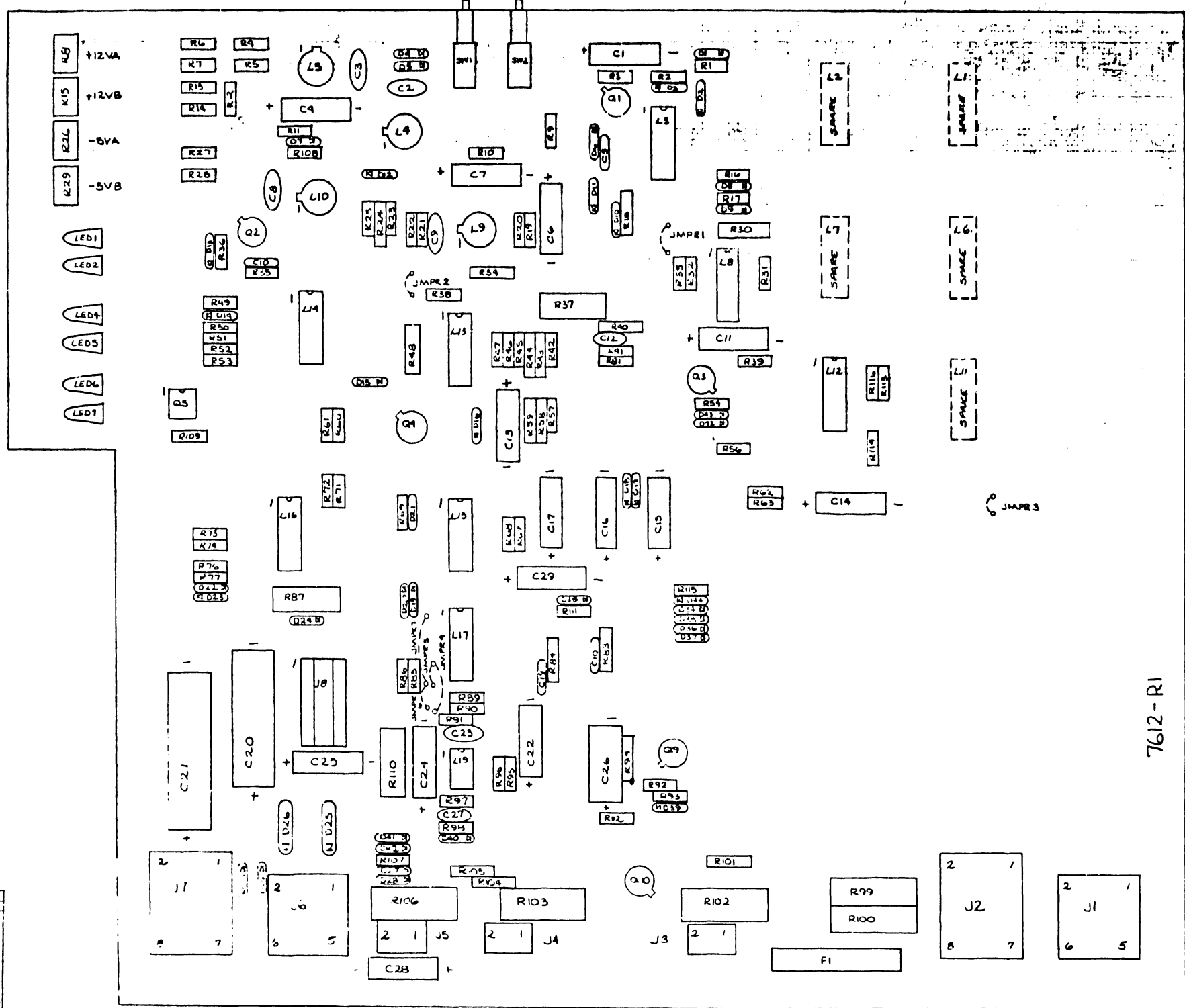
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REVISION	DATE	BY	APPROVED BY
1			

(WANG) LABORATORIES, INC. MODEL NO. VS-100		BY: DWN AD	DATE: 7-2-72	APPROVED BY: E ENGR	DATE: 7-2-72
SEE LEGEND SPECIFICATIONS		CHE		M ENGR	
TITLE: POWER SUPPLY BOARD				MFG ENGR	
FINISH: 100% AS NOTED		100% AS NOTED	100% AS NOTED	100% AS NOTED	100% AS NOTED
SCALE: 1/8" = 1"		20-7612	D	7612	3
SCALE: 1/8" = 1"		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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7612-RI

NO.	REVISION
1	DATE 11-1-64
2	DATE 11-1-64

(WANG) LABORATORIES, INC. LONDON, ENGLAND		BY DWH	DATE 11-1-64	APPROVED BY E ENGR	DATE
MODEL NO. VS-100		TITLE POWER SUPPLY BOARD			
SAE TRADE SPECIFICATIONS		210-7612			
TOL. EE AS 00160		D		7612	
SCALE 1:1		DRAFT		5	

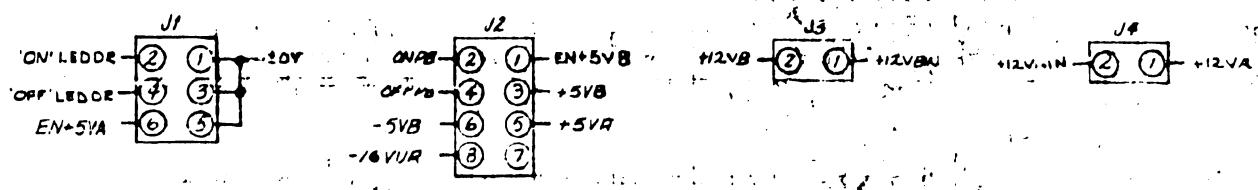
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DO NOT SCALE

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.
C1,4,6,7,51,23,28,39,31,32,33	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

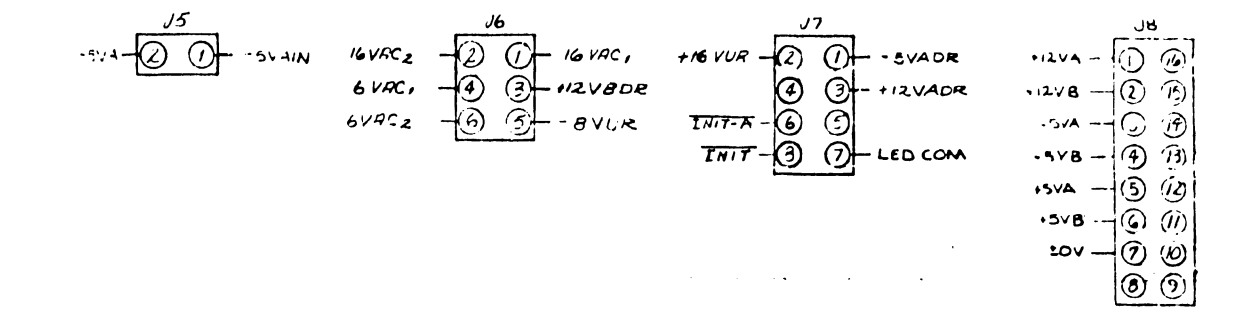
MNEMONIC	COORD.
EN+5VA	101
ON LED DR	2AB
OFF LED DR	2AT



COMPONENT	TYPE	WANG PART NO.
R6,9	60K 1/4W 10%	330-4068
R13	20K 1/4W 10%	330-4020
R12,17,18,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	2.2K 1/4W 10%	330-3022
R2,17,35,81	33K 1/4W 10%	330-4033
R3,4,23,39,111	100K 1/4W 10%	330-5010
R5,10,41,57,90,96	10K 1/4W 10%	330-4010
R6,7,50,76,132	15K 1/4W 10%	330-3016
R7,13,112	2.7K 1/4W 10%	330-3027
R8,5,24,29	1K POT	330-1014
R11,23	55K 1/4W 10%	330-2015
R10,31,46,83	47K 1/4W 10%	330-4047
R18,40,44,59,88,89	12K 1/4W 10%	330-0091
R19,108	470K 1/4W 10%	330-2047
R20,25	27K 1/4W 10%	330-1027
R21	1.5K 1/4W 10%	330-3015
R22	100K 1/4W 10%	330-2012
R24,34	2.2K 1/4W 10%	330-0093
R30,43	500K 1/4W 10%	330-2056
R32,33,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	1K 1/4W 10%	330-3010
R37	150K 1/4W 10%	330-2033
R38,49,51,53,54	15K 1/4W 10%	330-3015
R41,58	15K 1/4W 10%	330-3016
R42,52,53,54	500K 1/4W 10%	330-2056
R43	500K 1/4W 10%	330-2056
R44	500K 1/4W 10%	330-2056
R45	500K 1/4W 10%	330-2056
R46	500K 1/4W 10%	330-2056
R47	500K 1/4W 10%	330-2056
R48	500K 1/4W 10%	330-2056
R49	500K 1/4W 10%	330-2056
R50	500K 1/4W 10%	330-2056
R51	500K 1/4W 10%	330-2056
R52	500K 1/4W 10%	330-2056
R53	500K 1/4W 10%	330-2056
R54	500K 1/4W 10%	330-2056
R55	500K 1/4W 10%	330-2056
R56	500K 1/4W 10%	330-2056
R57	500K 1/4W 10%	330-2056
R58	500K 1/4W 10%	330-2056
R59	500K 1/4W 10%	330-2056
R60	500K 1/4W 10%	330-2056
R61	500K 1/4W 10%	330-2056
R62	500K 1/4W 10%	330-2056
R63	500K 1/4W 10%	330-2056
R64	500K 1/4W 10%	330-2056
R65	500K 1/4W 10%	330-2056
R66	500K 1/4W 10%	330-2056
R67	500K 1/4W 10%	330-2056
R68	500K 1/4W 10%	330-2056
R69	500K 1/4W 10%	330-2056
R70	500K 1/4W 10%	330-2056

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	1u2uF 35V (T)	300-4013
C27	.015uF	300-1928
C5,10,18,19	.22uF	300-1902

MNEMONIC	COORD.
DI1,3	3ER
DI2,4,11,24,41,42,27,28,32,34,44,46,47,48	1N4148
D9,5	1N4731A 4.3V
D14,23,30,37,84,85	1N4004
D25,26	A15R
D10	1N4372A
Q5	TIL111
Q1-3	2N2906A
Q4	2N4234
Q9	2N3014
LED1,2,4-7	LAMP RED
J1,6	HDR, 6 PIN
J2,7	HDR, 3 PIN
J3,9,5	HDR, 2 PIN
J8	SKT, 16 PIN
SW1,2	SPDT, 1/4"
F1	1A 250V
Q11	2N3765



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

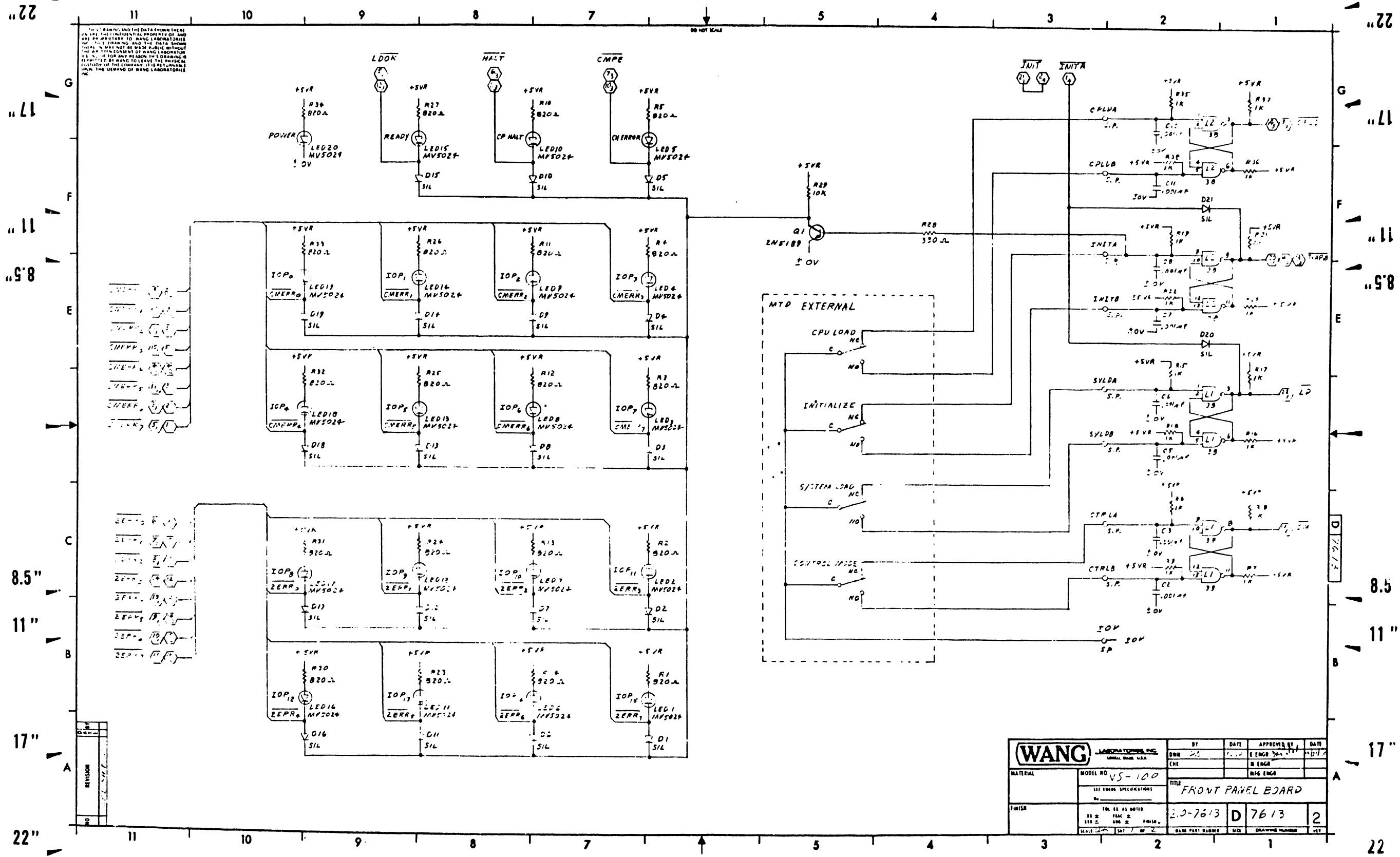
COMPONENT	TYPE	WANG PART NO.
R21,37	470K 1/4W 10%	330-5047
R35,36,115	3.3K 1/4W 10%	330-3023
R37	470K 1/4W 10%	330-2047
R38	11K 1/4W 10%	330-0113
R39	330K 1/4W 10%	330-5033
R40	11K 1/4W 10%	330-0112
R41,50	330K 1/4W 10%	330-5035
R42,118	47K 1/4W 10%	330-1047
R46	100K 3/4W 5%	330-0032
R47,103	100K 1/2W 5%	330-0031
R48,104	300K 1/2W 5%	330-0059
R49	2K 1/4W 10%	330-0111
R50	120K 1/4W 10%	330-5012
R51	500K 1/4W 10%	330-0056

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

E-REV
2

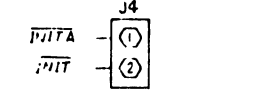
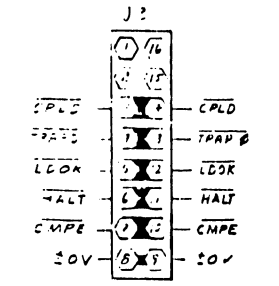
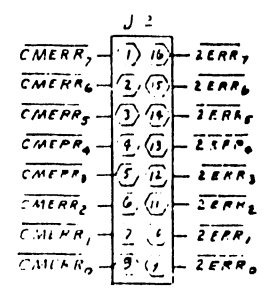
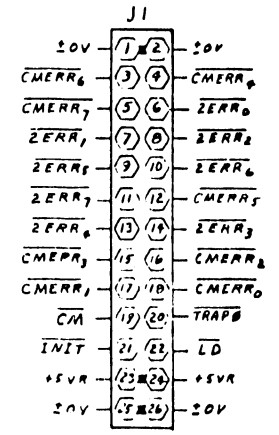
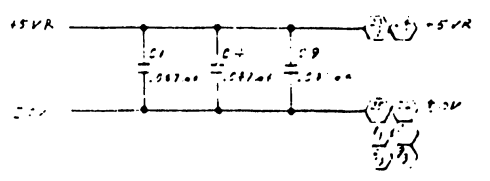
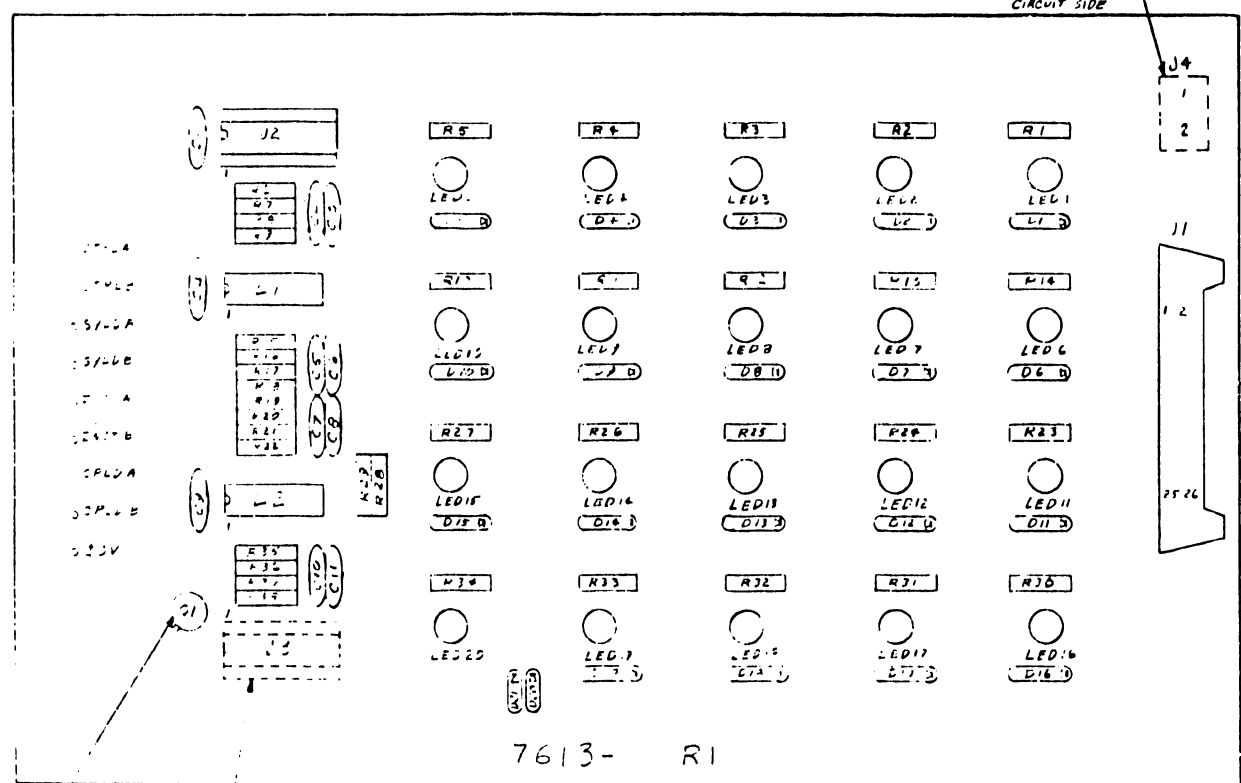
WANG LABORATORIES, INC. 700 WASHINGTON ST. BOSTON, MASS. 02111		BY: [Signature]	DATE: 5/12/72	APPROVED BY: [Signature]	DATE: 5/12/72
MATERIAL:	MODEL NO. VS-100	TITLE: POWER SUPPLY BOARD			
FINISH:	100% SILVER PLATE	SCALE: 1/8" = 1"			
DRAWING NO. 210-7612		DATE: 5/12/72		DRAWING NUMBER: 210-7612	

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WANG LABORATORIES, INC. SERIAL NUMBER 1454		BY DWH	DATE 11-22	APPROVED BY E ENGR	DATE 11-27
MATERIAL	MODEL NO. V5-100	CHE		B ENGR	
SERIAL SPECIFICATIONS		TITLE FRONT PANEL BOARD			
FINISH	10L 11 11 0010 111 2 100 2 10110	20-7613	D	7613	2
SCALE 1/8" = 1"		SHEET NO. 1 OF 2		DRWG. PART NUMBER	DATE

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I.C. LOC.	ICL PART NO.	TYPE
LI.2	376-012B	743B

ALIAS	SYMBOL
CM	151
CMERR ₁ -ZERR ₇	151
CMPE	151
CM	151
HALT	151
LDOK	151
INIT	151
LD	151
LDOK	151
TRAPB	151
ZERR ₈ -ZERR ₇	151

COORDINATE	ICL PART NO.	TYPE
R1-5, 10-15, 23-27, 30-34	330-2002	510A 1/4W 5%
R6-9, 14-17, 31-38	330-3011	1/4W 1/4 5%
R20	330-2004	330A 1/4W 5%
R29	330-4011	1/4W 1/4 5%
C1, 6, 7	330-1117	0.01uF
C2, 3, 5, 8, 10, 11	330-1104	0.01uF
G1	375-1021	INIT
G2	375-3001	TRANSIPAD
LED1-LED25	375-0020	LED
G-21	375-1111	INIT
J1	350-005B	20 PIN SOCKET
J2, 3	376-1020	18 PIN SOCKET
J4	656-119B	2 POS

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

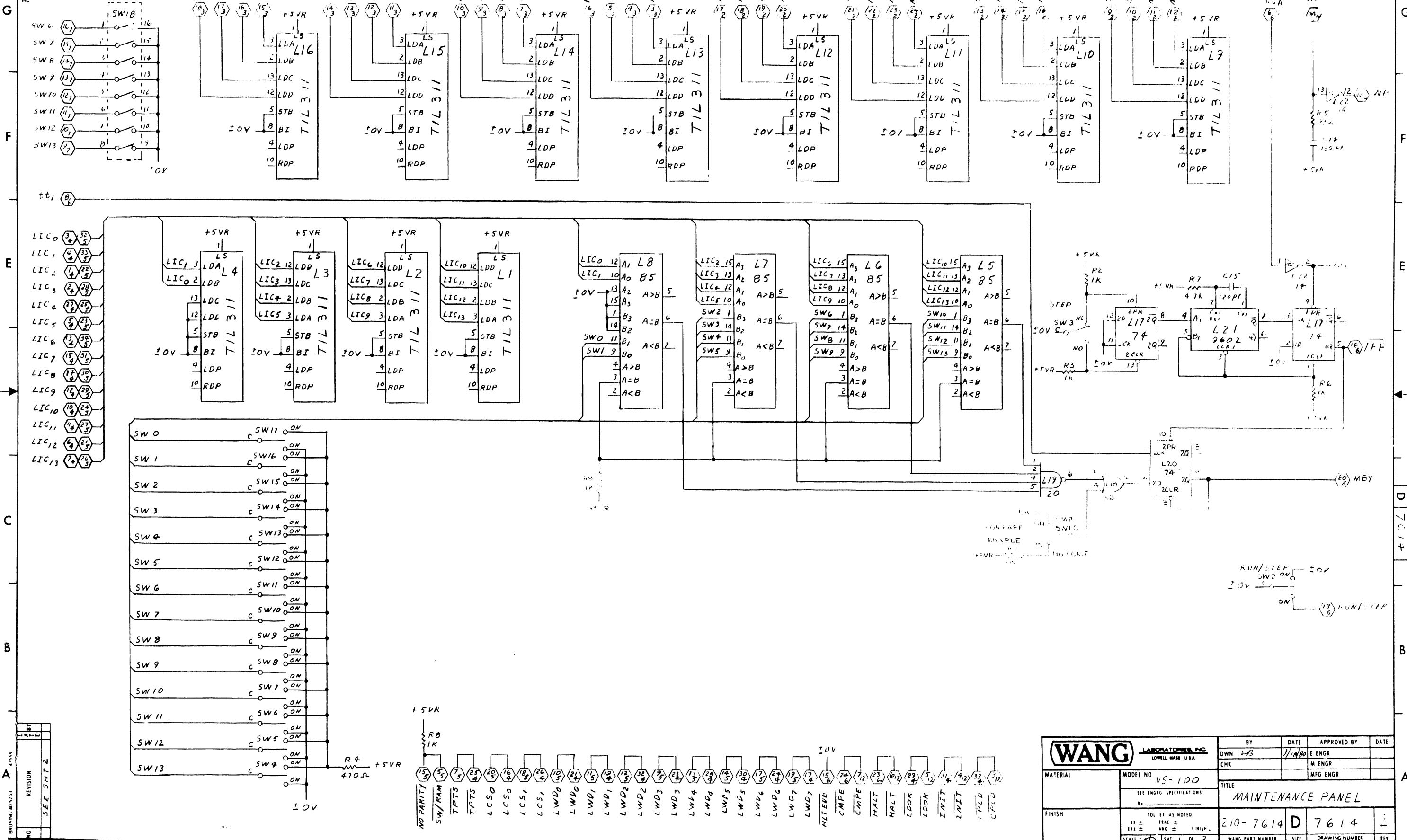
E-REV
 1

REV	DATE	BY	APP'D	DESCRIPTION
1	11/11/73	WJ		REVISED PER LCO# 2739112597
2	11/11/73	WJ		APP'D

WANG LABORATORIES INC. WANG LAB. BLDG. 1000 WASHINGTON ST. BOSTON, MASS. 02115		BY: DWN	DATE: 11/11/73	APPROVED BY: E ENGR	DATE: 11/11/73
MATERIAL:	MODEL NO: VS-100	CHK'D: CHU	DATE: 11/11/73	BY: M ENGR	
TITLE: FRONT PANEL BOARD					
FINISH:	100% TIN	210-7613	D	7613	2
DRAWING NUMBER: 210-7613		DRAWING NUMBER: 210-7613			

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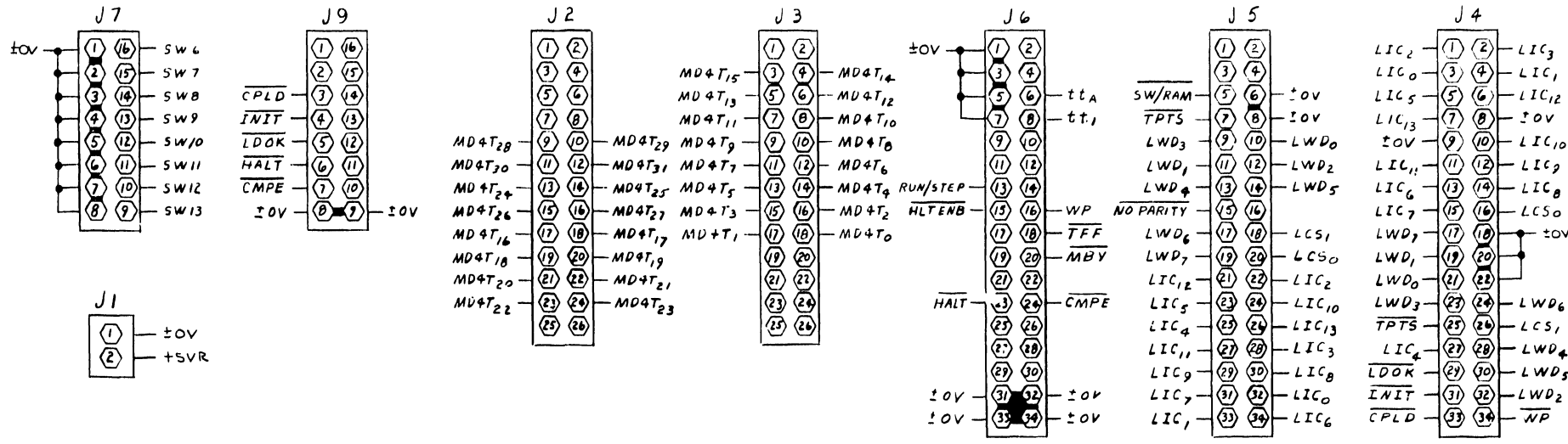
DO NOT SCALE



NO	REVISION
1	SEE SHT 2

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN	1/14/60	E ENGR	
MATERIAL MODEL NO. VS-100 SEE ENGRG SPECIFICATIONS No.		CHR		M ENGR	
				MFG ENGR	
FINISH		TITLE		DRAWING NUMBER	
101 ± AS NOTED 101 ± FRC ± 101 ± ANG ± FINISH SCALE: 1/8" = 1" SHT 1 OF 2		MAINTENANCE PANEL 210-7614 D 7614		WANG PART NUMBER SIZE DRAWING NUMBER REV	

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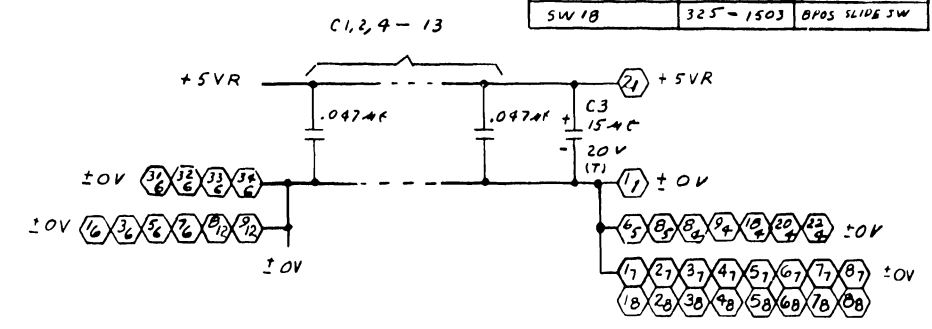
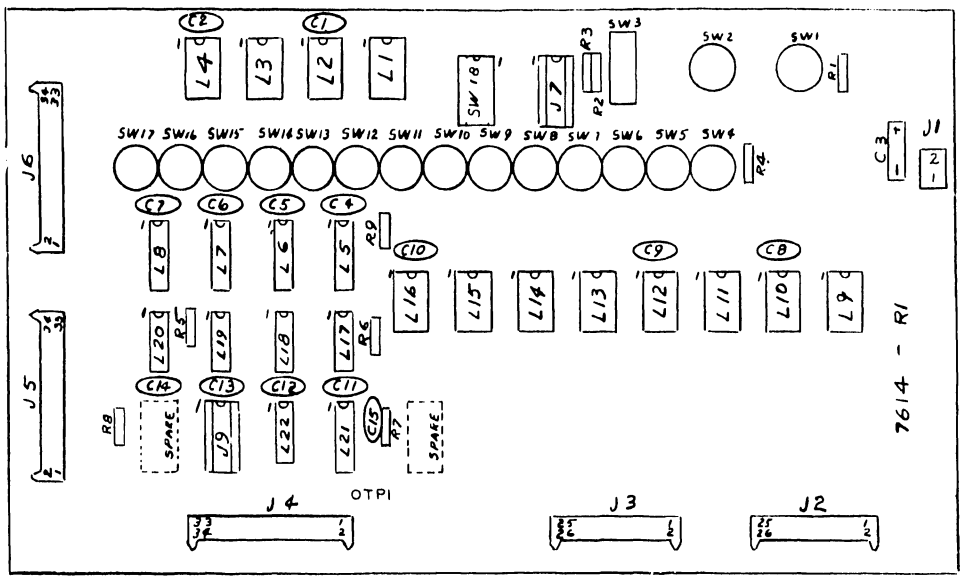


MNEMONICS	COORDINATE
CMPE	1 A 5
CPLD	1 A 4
HALT	1 A 5
HLT ENB	1 A 5
INIT	1 A 4
LCS0	1 A 8
LCS1	1 A 7
LDOK	1 A 4
LIC0 - LIC13	1 E 11
LWD0 - LWD7	1 A 7
MBV	1 C 1
MD4T0 - MD4T3	1 G 10
NO PARITY	1 A 8
RUN/STEP	1 B 1
SW6 - SW13	1 G 11
SW/RAM	1 A 8
TFF	1 D 1
TPTS	1 A 8
t.t.a	1 G 1
t.t.i	1 F 11
WP	1 F 1
WP	1 G 1

I.C. LOC.	W.L. PART NO.	TYPE
L1-4, 9-16	340-0015	TIL 311
L5-B	376-0087	74B5
L17, 20	376-0006	7474
L18	376-0093	7432
L19	376-0009	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 1/2W 10%
R5	330-1033	33-2 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	350-0929	3PIN RT ANGLE
J2, 3	350-0058	26PIN RT ANGLE
J7, 9	376-9024	16PIN SOCKET
J1	654-1198	2POS MOLEX
SW1, 2, 4-17	325-0006	SPDT CTR OFF
SW3	279-0300	SPDT MICRO
SW18	325-1503	BPOS SLIDE SW

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

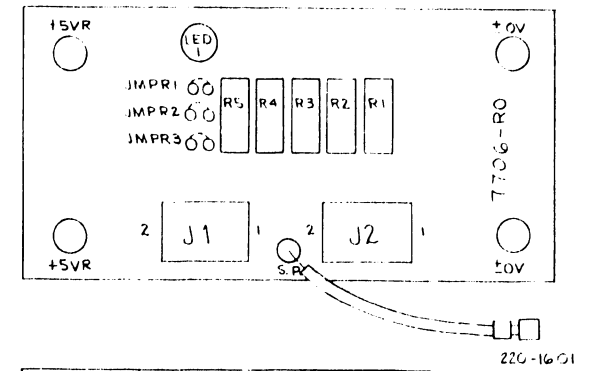
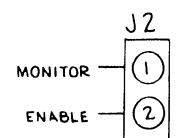
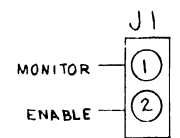
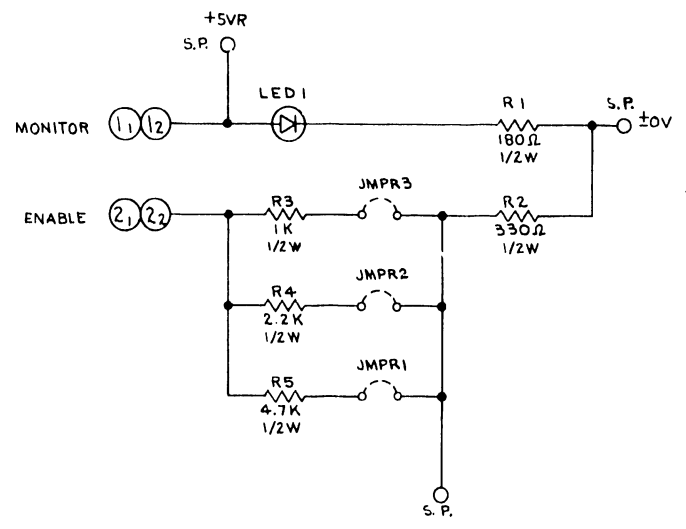


NO.	REVISION	DATE	BY
1	ORG PER	2-14-80	JAB
2	DWR PER	2-14-80	JAB
3	APP'D PER	11-4-80	JAB
4	REVISED PER	11-4-80	JAB
5	ECO PER	11-4-80	JAB
6	APP'D PER	11-4-80	JAB
7	REVISED PER	11-4-80	JAB
8	ECO PER	11-4-80	JAB
9	APP'D PER	11-4-80	JAB

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY: DWN	DATE: 9-18-80	APPROVED BY: ENGR JAB	DATE: 11-11-80
MATERIAL: SEE ENGR SPECIFICATIONS		CHK: JAB	M ENGR		MFG ENGR
MODEL NO. VS-100		TITLE: MAINTENANCE PANEL			
FINISH: TOL EX AS NOTED		210-7614 D		7614	2
SCALE: 1/2" = 1"		SMT 2 OF 2		WANG PART NUMBER	SIZE: DRAWING NUMBER

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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	DJB	JEP
2	11-14-80	M	JEP

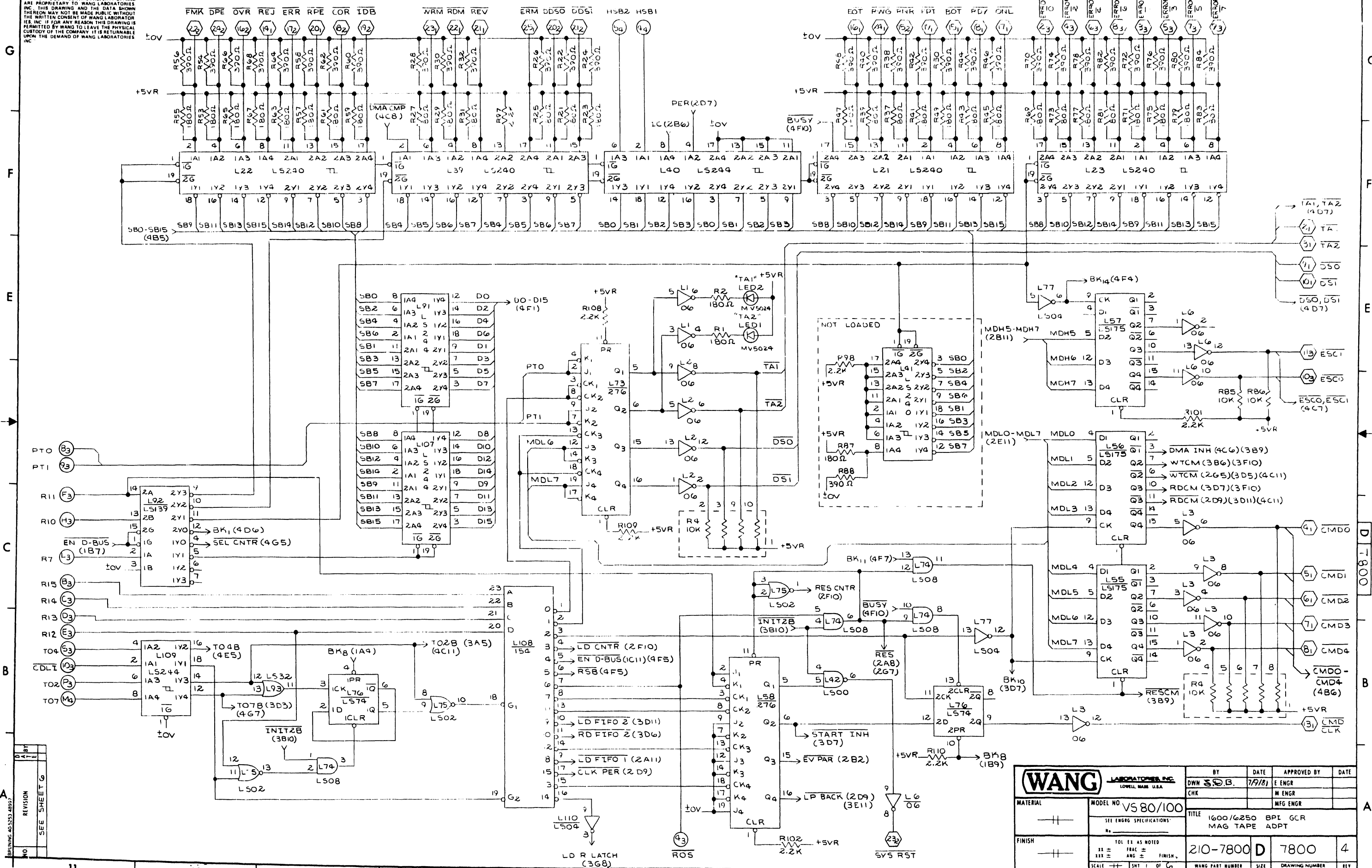
WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DJB	DATE 10/22/80	APPROVED BY JEP	DATE 11/22/80
MATERIAL —||—		MODEL NO. VS 100		TITLE SWITCHING REGULATOR INTERFACE	
FINISH — —		TOL EX AS NOTED XX ± FRAC ± FINISH		210-7706	D 7706
SCALE		WANG PART NUMBER		SIZE	DRAWING NUMBER

D 7706

A

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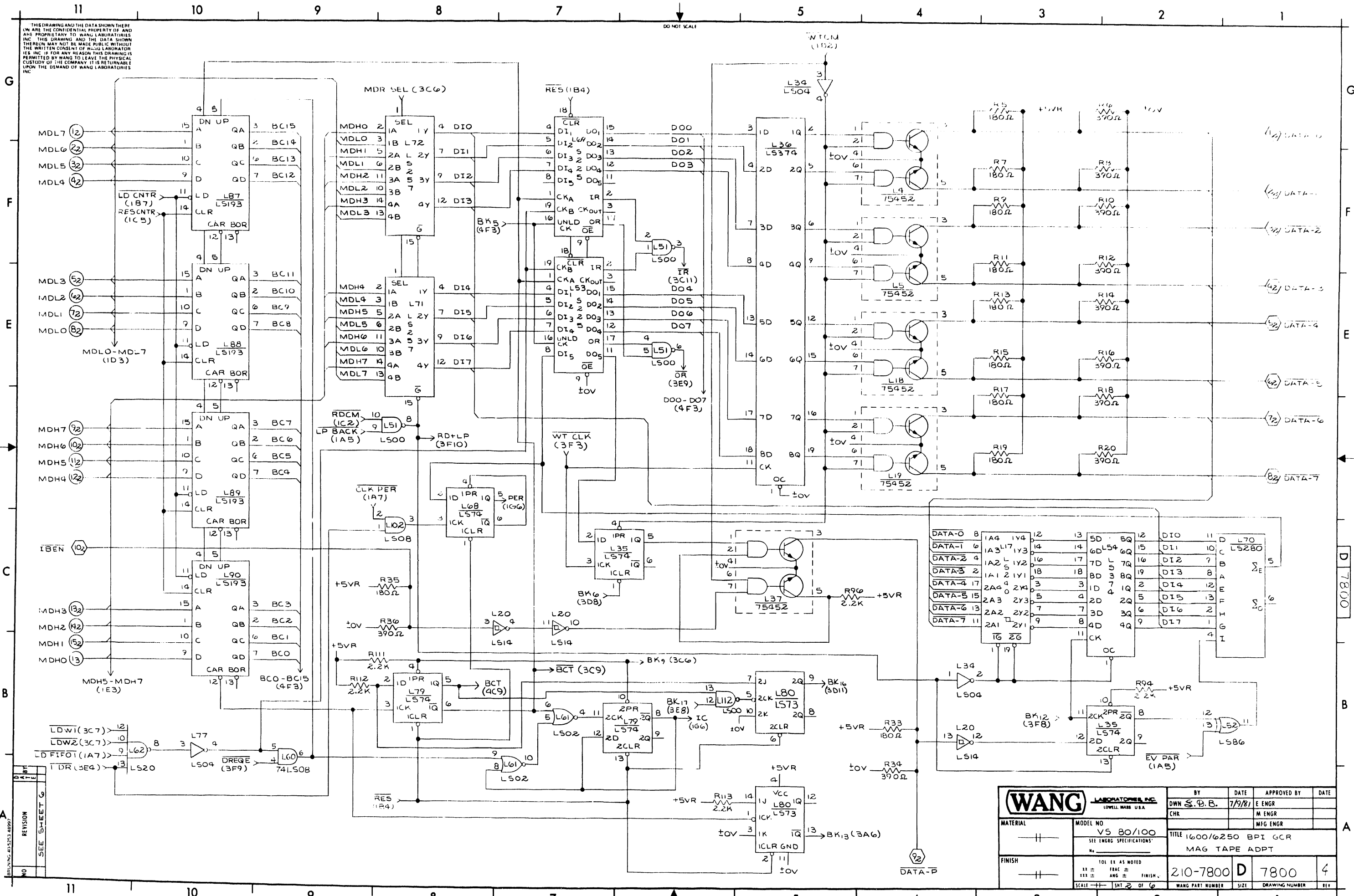
DO NOT SCALE



NO.	REVISION
	SEE SHEET G

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN	3/8/78	E ENGR	
MATERIAL		CHK		M ENGR	
				MFG ENGR	
MODEL NO. VS 80/100		TITLE 1600/6250 BPL GCR MAG TAPE ADPT			
FINISH		TOL EX AS NOTED XX ± FRAC ± FINISH XXX ± ANG ± FINISH			
SCALE 1/16" = 1"		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
		210-7800	D	7800	4

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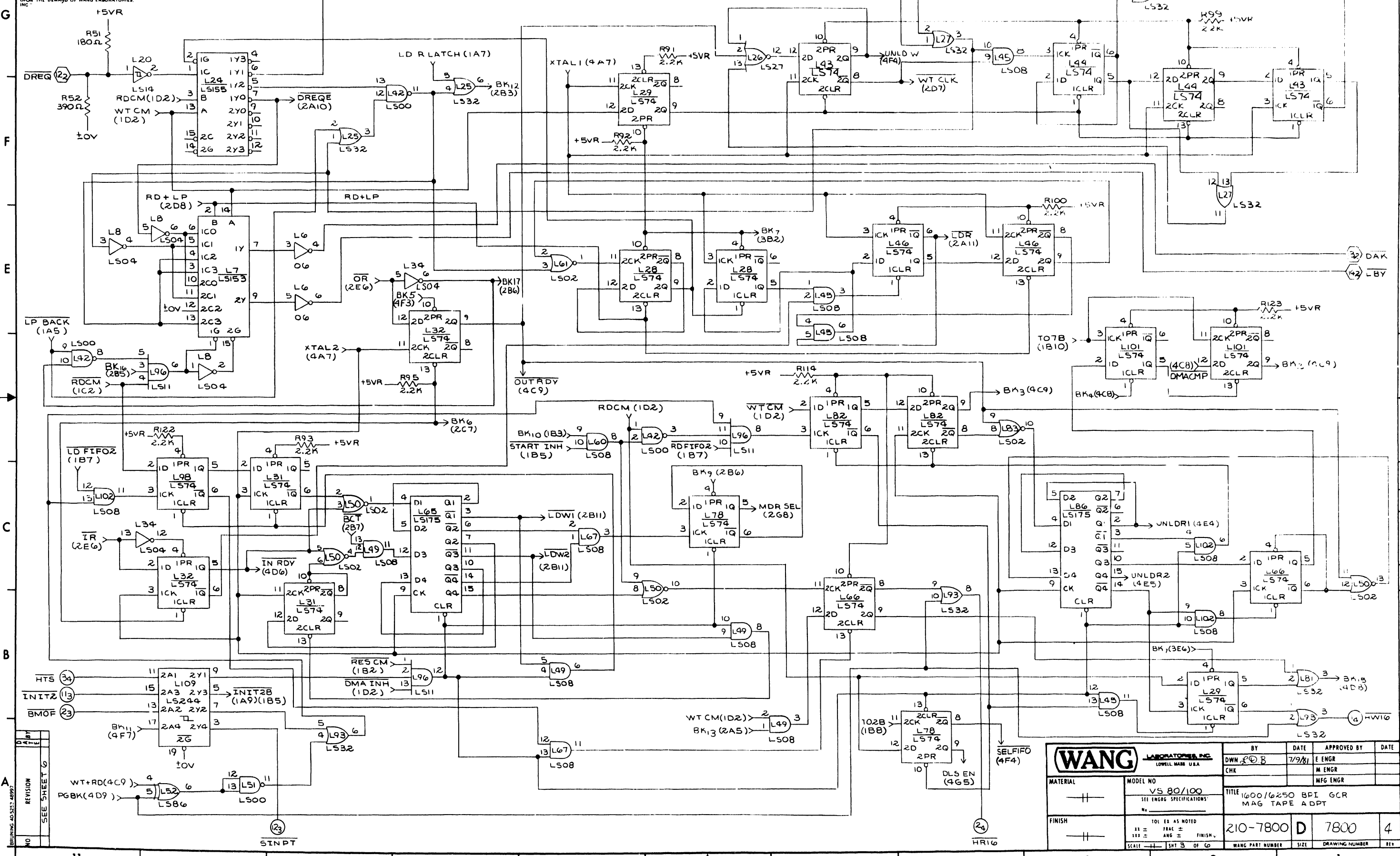


WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN S.D.B.	DATE 7/9/81	APPROVED BY E ENGR	DATE
MATERIAL —||—	MODEL NO VS 80/100 SEE ENGR SPECIFICATIONS	CHR	TITLE 1600/6250 BPI GCR MAG TAPE ADPT		
FINISH —||—	TOL. ET AS NOTED ± .005 ± .010 ± .015 SCALE 1:1	210-7800		D 7800	4
NO. OF SHEETS 1 OF 6		WANG PART NUMBER		SIZE	REV.

REV	DESCRIPTION
01	ISSUED FOR FABRICATION

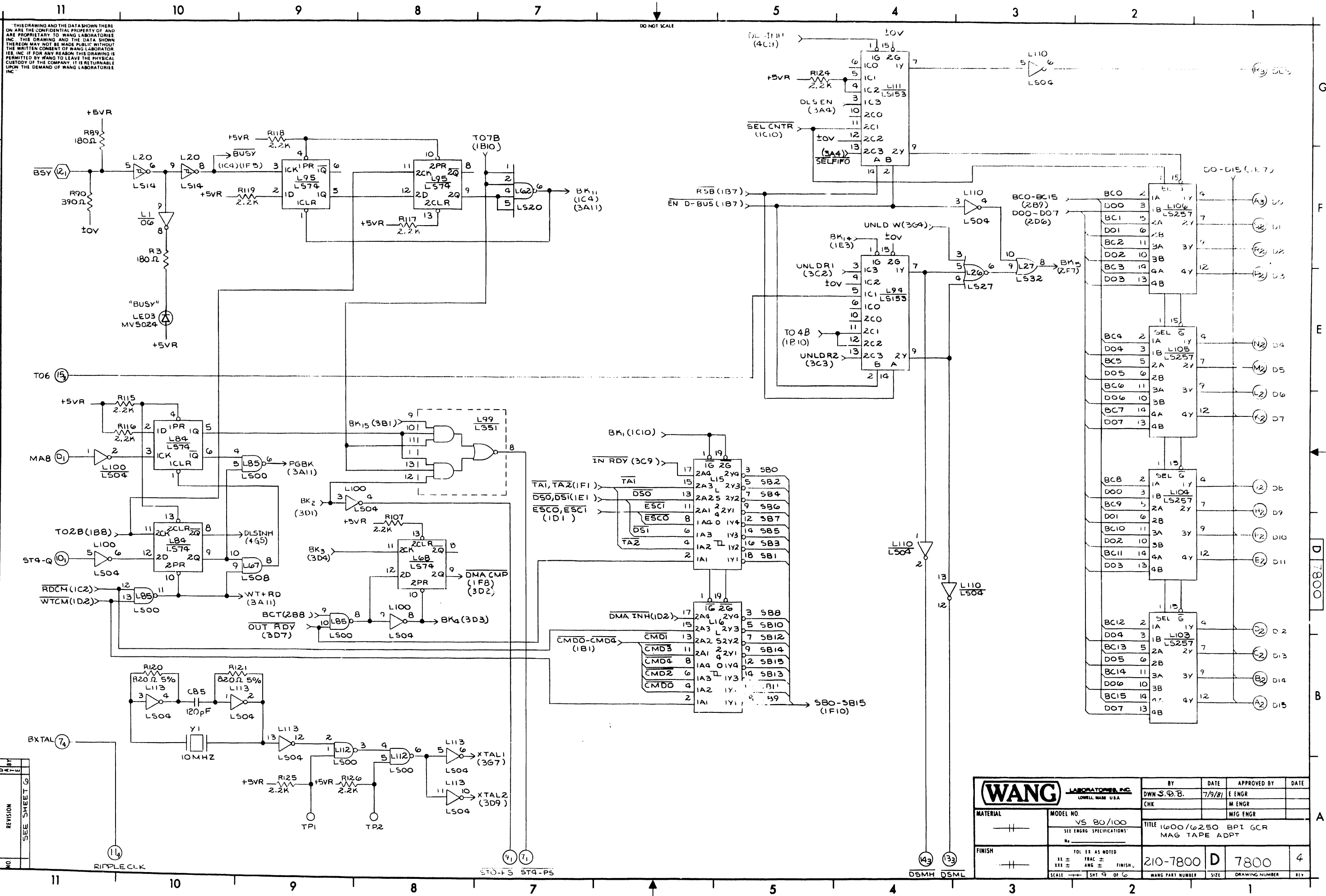
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DO NOT SCALE



REV	DESCRIPTION

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	7/9/61	E ENGR	
FINISH		CHK		M ENGR	
				MFG ENGR	
MODEL NO.	VS 80/100	TITLE			
	SEE ENGR SPECIFICATIONS	1600/6250 BPI GCR			
		MAG TAPE ADPT			
		210-7800	D	7800	4
		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV



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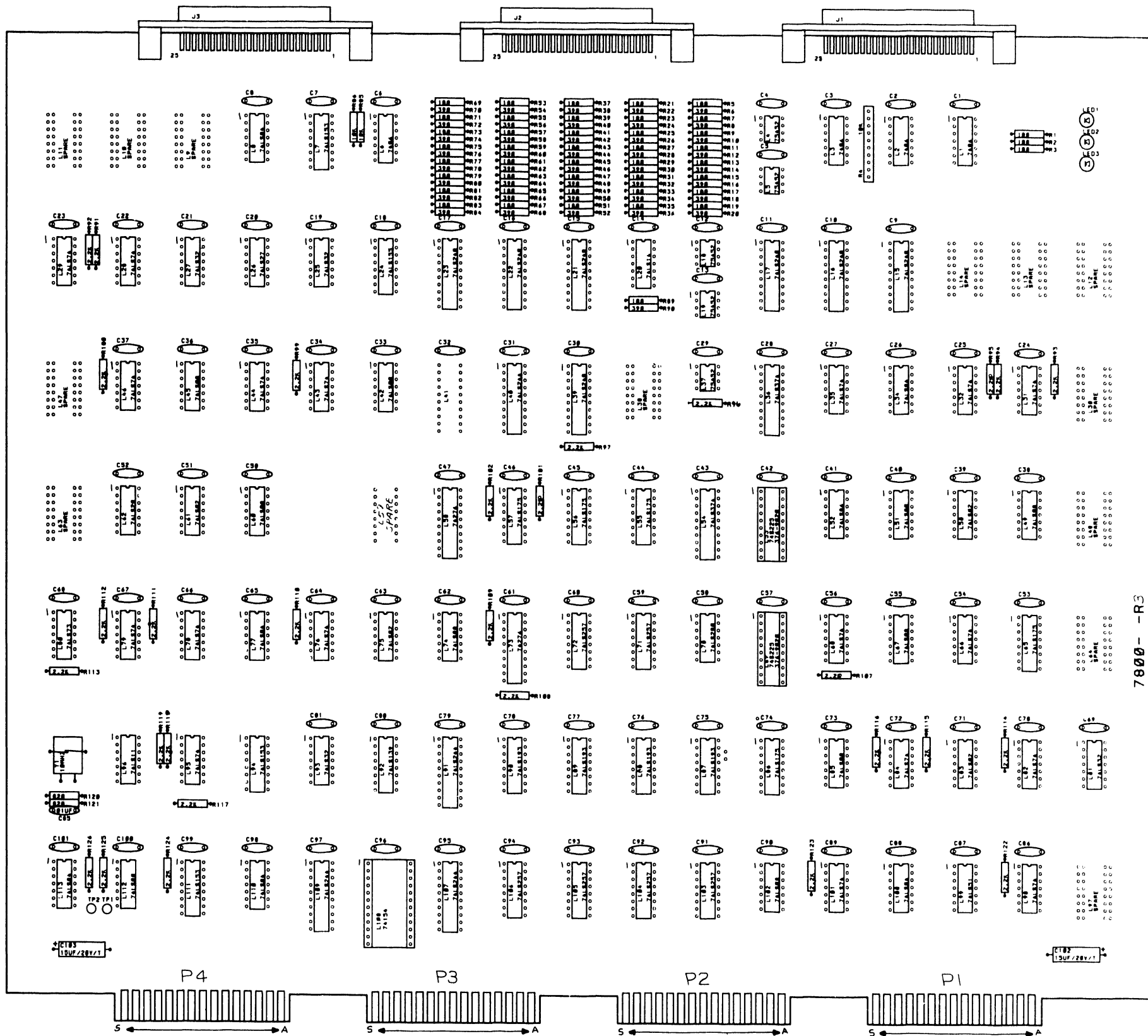
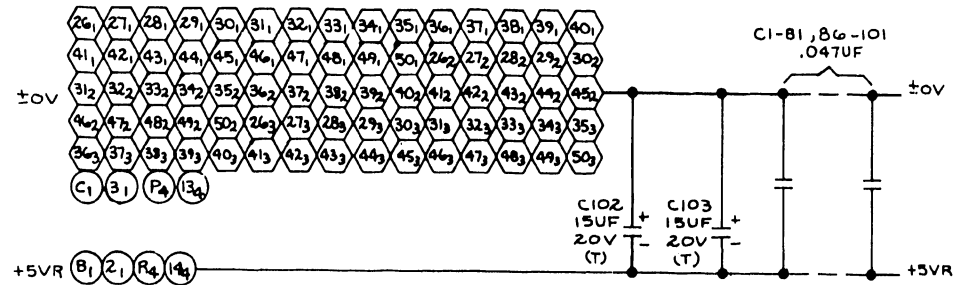
DO NOT SCALE

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

NO.	REVISION	DATE
	SEE SHEET G	

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DO NOT SCALE



7800 - R3

NO	REVISION	DATE	BY

SEE SHEET G

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWN S B B	DATE 7/9/81	APPROVED BY E ENGR	DATE
MATERIAL —||—	MODEL NO. VS 80/100 SEE ENGRG SPECIFICATIONS	CHK		M ENGR	
FINISH —||—	101 EX AS NOTED 11 ± 18AC ± 131 ± ANG ± FINISH.			MFG ENGR	
TITLE 1600/6250 BPI GCR MAG TAPE ADPT		210-7800		D	7800
SCALE 1:1	SMT 5 OF 6	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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DO NOT SCALE

G
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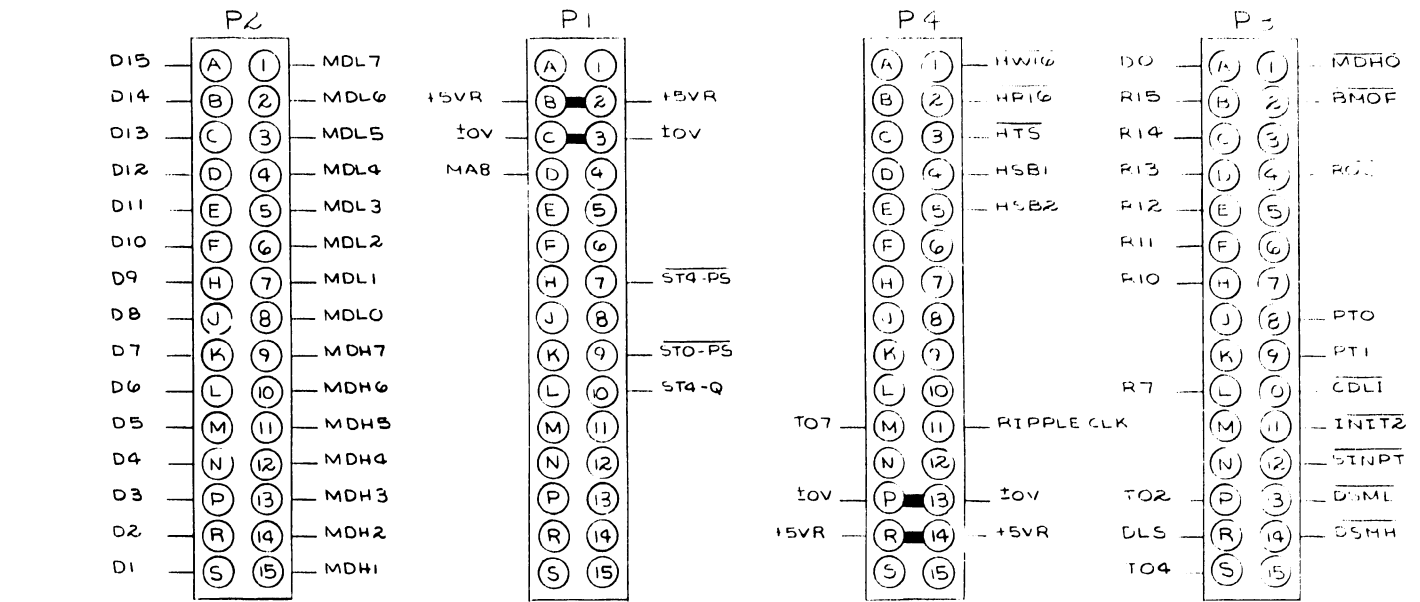
G
F
E
C
B
A

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
L87-90	74LS193	376-0220
L92	74LS139	376-0226
L96	74LS11	376-0225
L99	74LS51	376-0213
L108	74154	376-0090
L53,69	20 PIN SOCKET	376-9020
L108	24 PIN SOCKET	376-9003

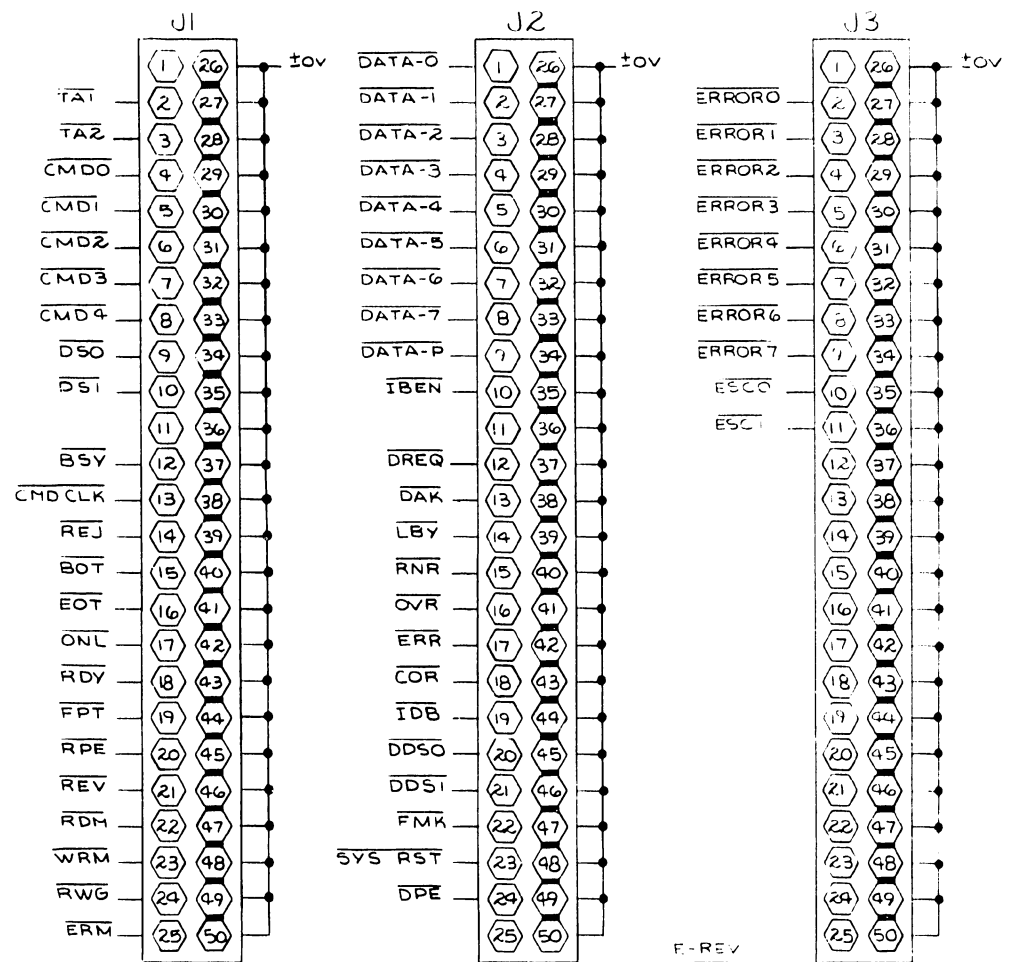
COMPONENTS	TYPE	W.L. PART NO.
R1-3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,89	180 Ω 1/4W 10%	330-2018
R4	10K	333-0809
R6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,90	390 Ω 1/4W 10%	330-2039
R85,86	10K 1/4W 10%	330-4010
R91-97,99-102,107-109,122-126	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
D0-D2	4F1
D3-D5	4E1
D6-D9	4D1
D10-D12	4C1
D13-D15	4B1
EOT	1G5
ERM	1G7
ERR	1G9
ERROR0-ERROR7	1G3
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

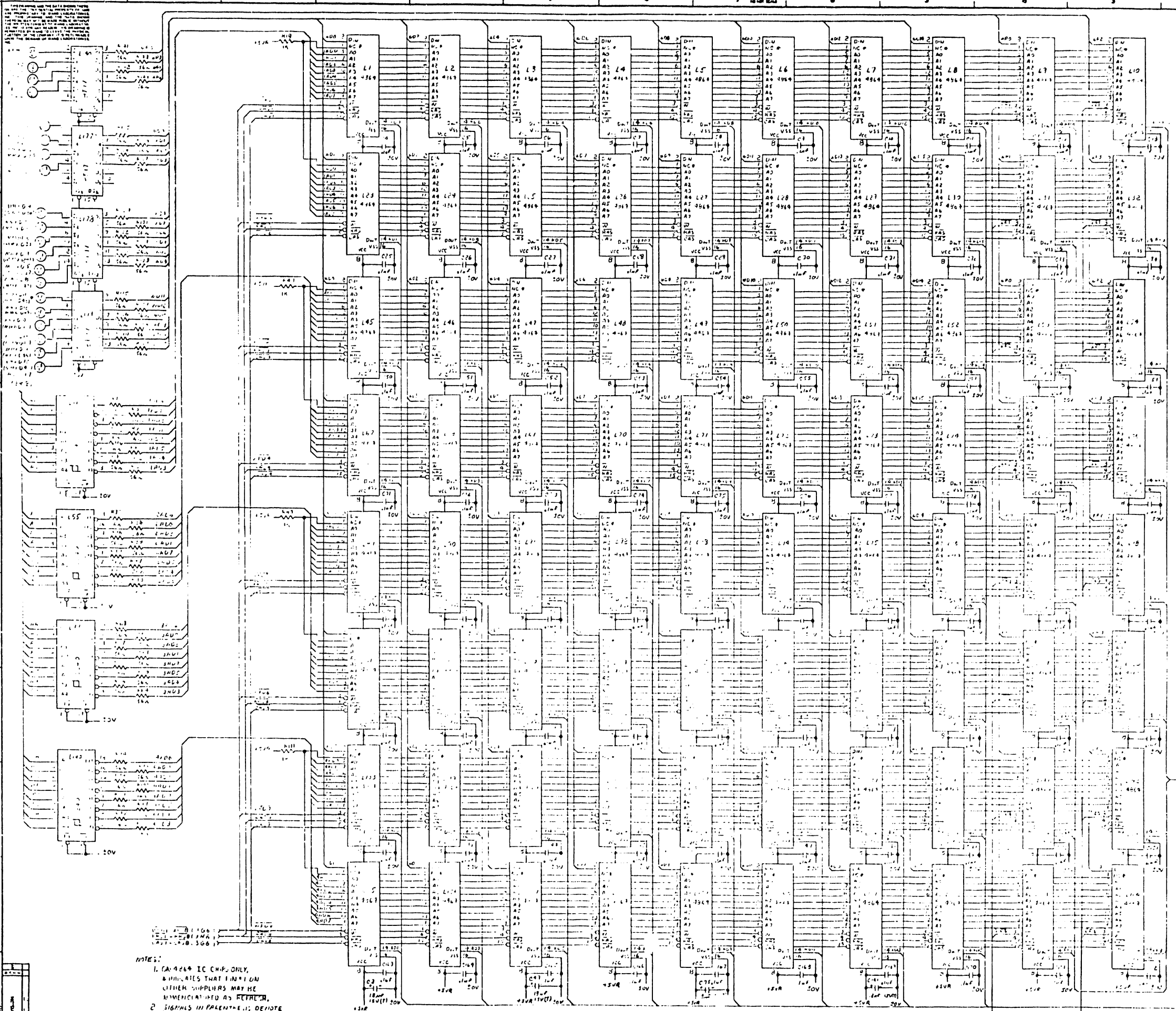


MNEMONICS	COORD
MDL7	2G11
ONL	1G3
OVR	1G10
PT0,PT1	1D11
RDM	1G8
RDY	1G4
REJ	1G9
REV	1G8
RIPPLE CLK	4A8
RNR	1G4
ROS	1A6
RPE	1G9
RWG	1G4
R7,R10,R11,R14,R15	1C11
R12,R13	1B11
STNPT	3A9
ST0-P5	4A7
ST4-P5	4A7
ST4-Q	4C11
SYS RST	1A4
TA1,TA2	1F1
TO2,TO4,TO7	1B11
TOG	4E11
WRN	1G8



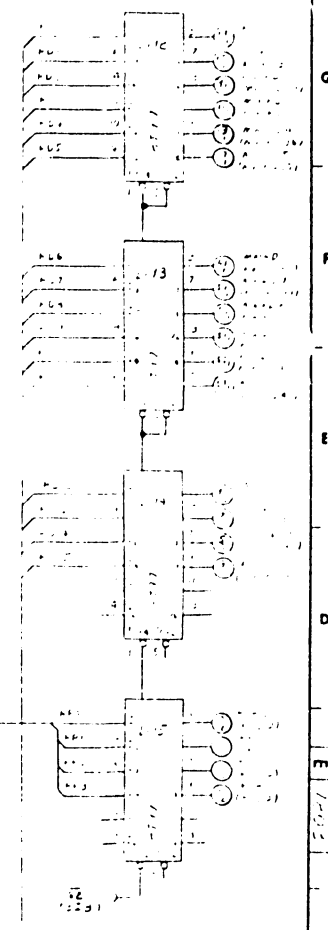
NO.	REVISION	BY	DATE	DESIGNED	DATE
0	ORIGINATED PER DWR#E1212 APP'D: JH 3/4/81	D.S.	7/9/81	JEP	9/30/81
1	REVISED PER ECOS2037,20312 APP'D: JH 3/4/81	JEP	12/18/81	JEP	12/18/81
2	REVISED PER ECOS21099 APP'D: JH 12/18/81	JEP	12/18/81	JEP	12/18/81
3	REVISED PER ECO#21551 APP'D: JH 12/18/81	JEP	12/18/81	JEP	12/18/81
4	REVISED PER ECOS22116 + 22213 APP'D: JH 2/15/82	JEP	2/15/82	JEP	2/15/82

WANG 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	
SEE ENGR SPECIFICATIONS		TITLE 1600/6250 BPI 1/2" CR MAG TAPE ADPT			
FINISH		TOL EX AS NOTED		210-7800 D 7800 4	
SCALE: 1:1		SMT CO OF CO		WANG PART NUMBER SIZE DRAWING NUMBER REV	



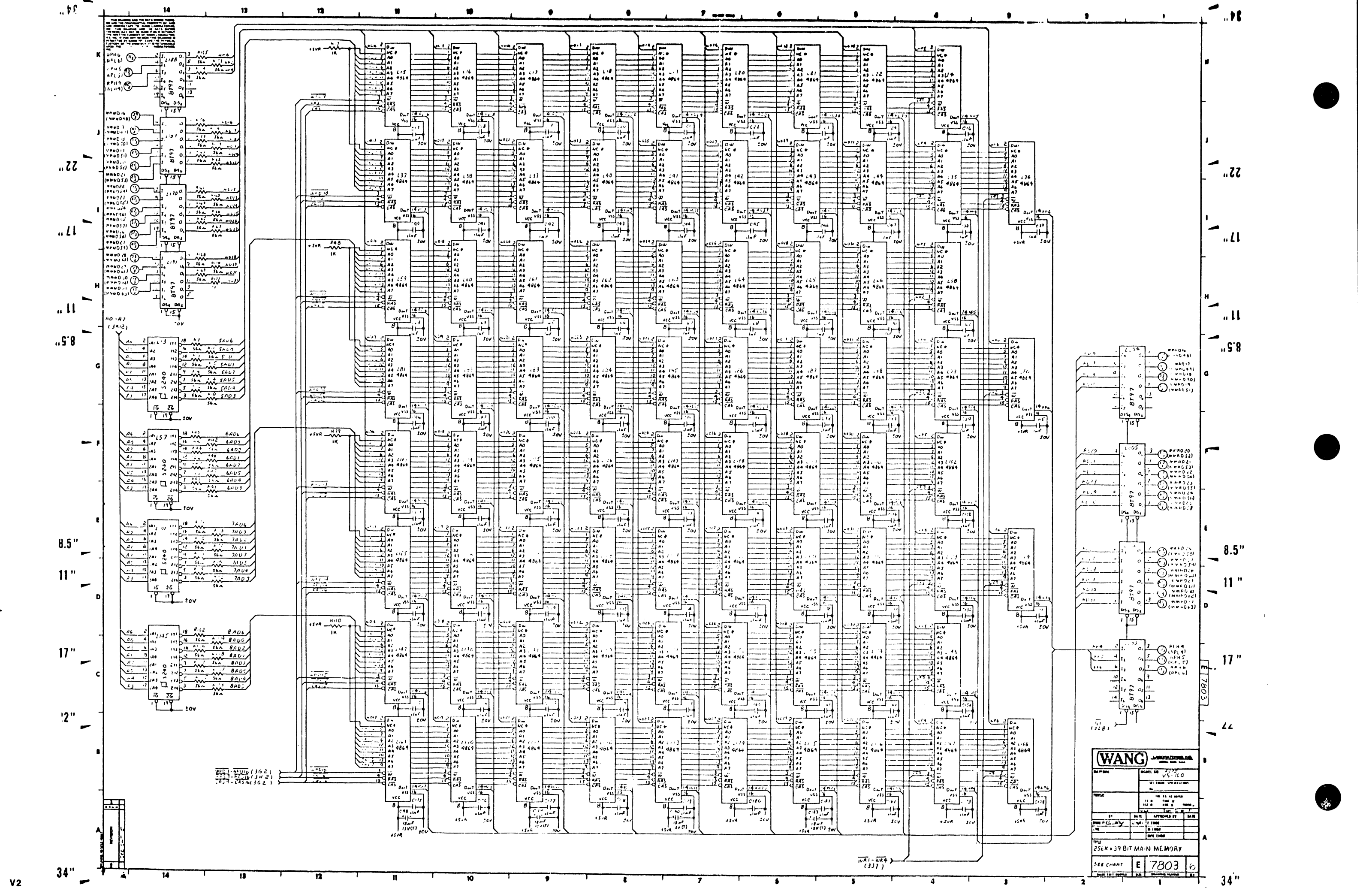
1. CAUTION: THE IC CHIPS SHOWN ARE THE ONLY ONES THAT CAN BE USED IN THIS CIRCUIT. OTHER SUPPLIERS MAY BE IDENTIFIED AS RETRAINS.

NOTES:
 1. CAUTION: IC CHIPS ONLY, AND PARTS THAT FUNCTION ON OTHER SUPPLIERS MAY BE IDENTIFIED AS RETRAINS.
 2. SIGNALS IN PARENTHESES DENOTE 'ODD' MEANS THAT CHIPS USED IN 2ND, 4TH, 6TH AND 8TH SLOTS.

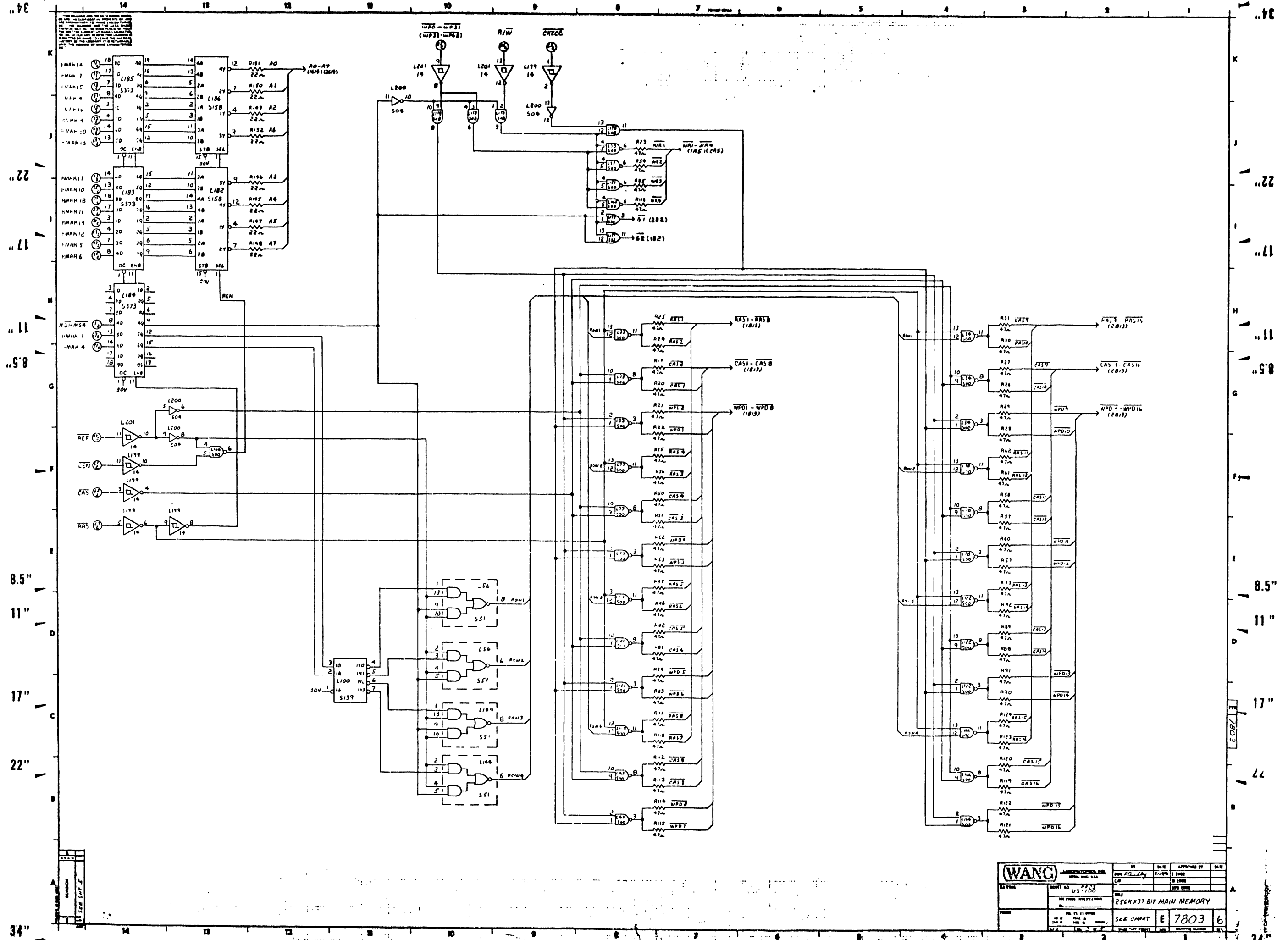


(WANG)		DATE: 11/10/66	
		DRAWN BY: J. J. JONES	
BY: J. J. JONES	DATE: 11/10/66	APPROVED BY: [Signature]	DATE: 11/10/66
CHKD BY: J. J. JONES	DATE: 11/10/66	DATE: 11/10/66	DATE: 11/10/66
SEE CHART E 7303 6			

34" 34" 22" 17" 11" 8.5" 8.5" 11" 17" 22" 34" 34" 14 13 12 11 10 9 8 7 6 5 4 3 2 1



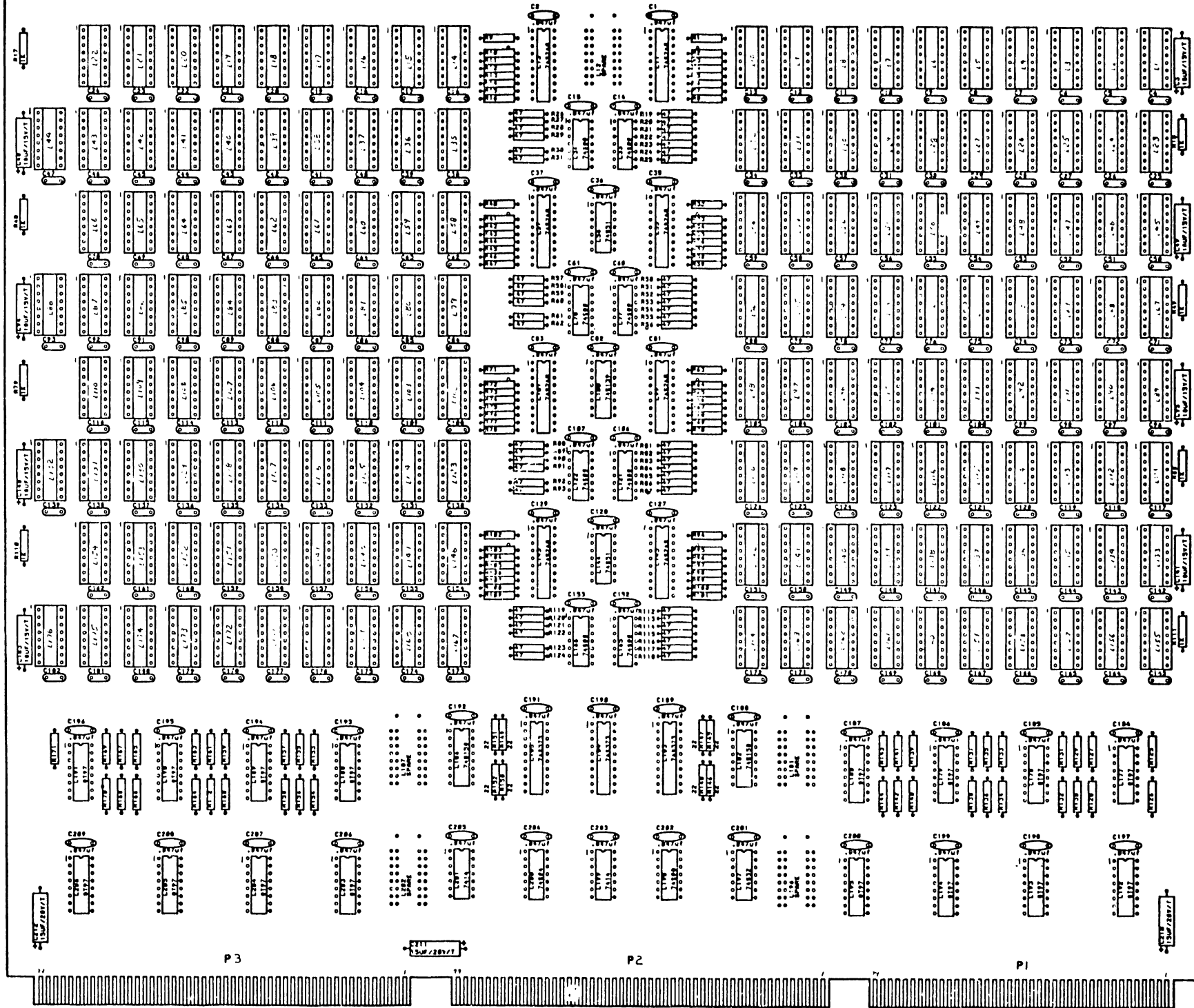
WANG <small>MANUFACTURING CO.</small> <small>1000 WASHINGTON BLVD., BOSTON, MASS. 02115</small>		DATE	APPROVED BY	DATE
		BY	DATE	APPROVED BY	DATE
TITLE 256K x 39 BIT MAIN MEMORY				
SEE CHART E 7803				



WANG		DATE	BY	APPROVED BY	REV
MODEL NO.	VS-100	DATE	BY	APPROVED BY	REV
256Kx32 BIT MAIN MEMORY		DATE	BY	APPROVED BY	REV
NO. OF	6	DATE	BY	APPROVED BY	REV
NO. OF	6	DATE	BY	APPROVED BY	REV
NO. OF	6	DATE	BY	APPROVED BY	REV

7803-RI

452 FACEPLATE 1 PER
 50 204 HO 43/8 PAN H L SCREW 5 PER



P3

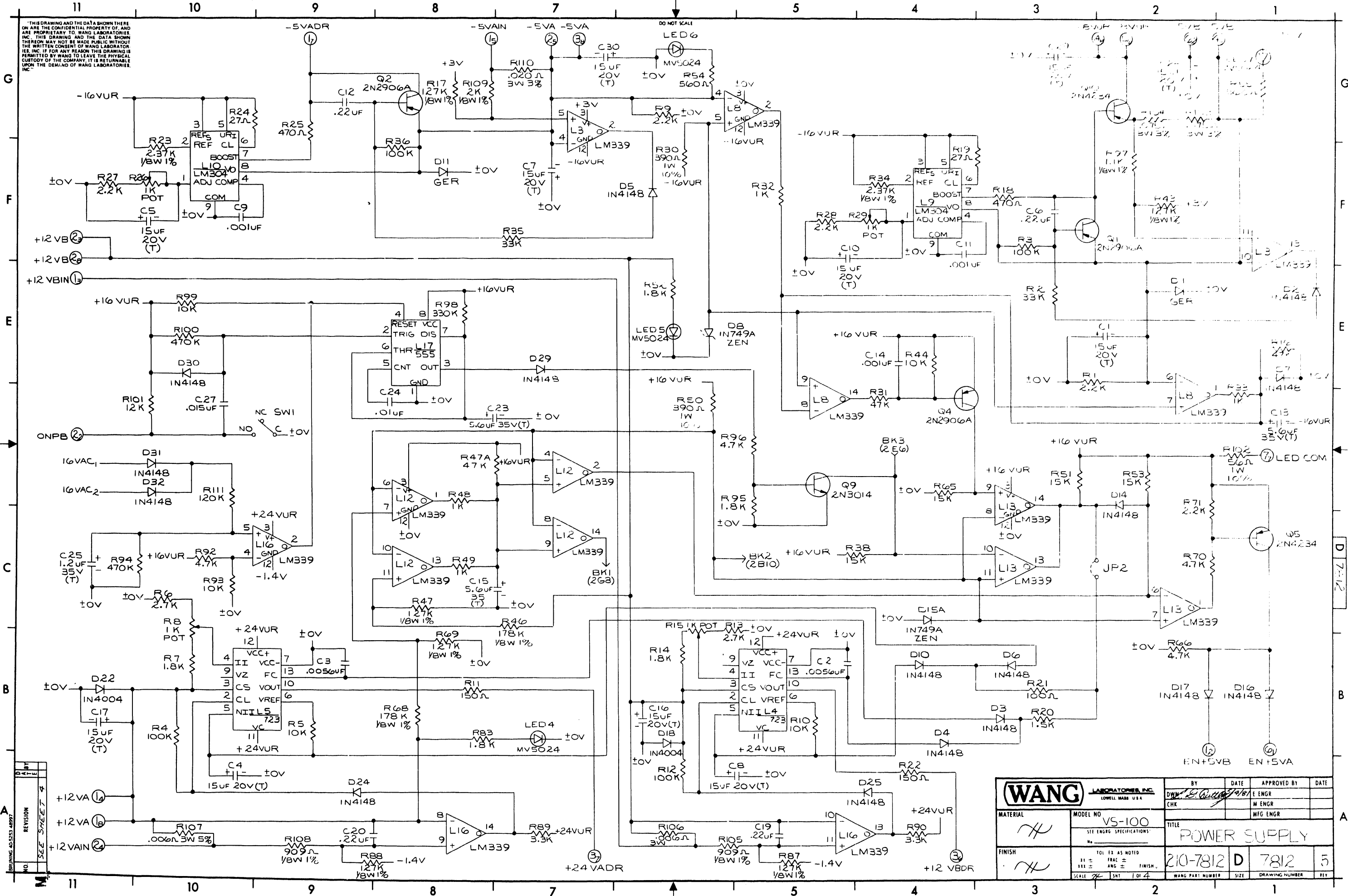
P2

P1

REV	DATE	BY

WANG		BY	DATE	APPROVED BY	DATE
MODEL NO.	7803				
TITLE	256K X 32 BIT MAIN MEMORY				
FORMA	SEE CHART	E	7803		

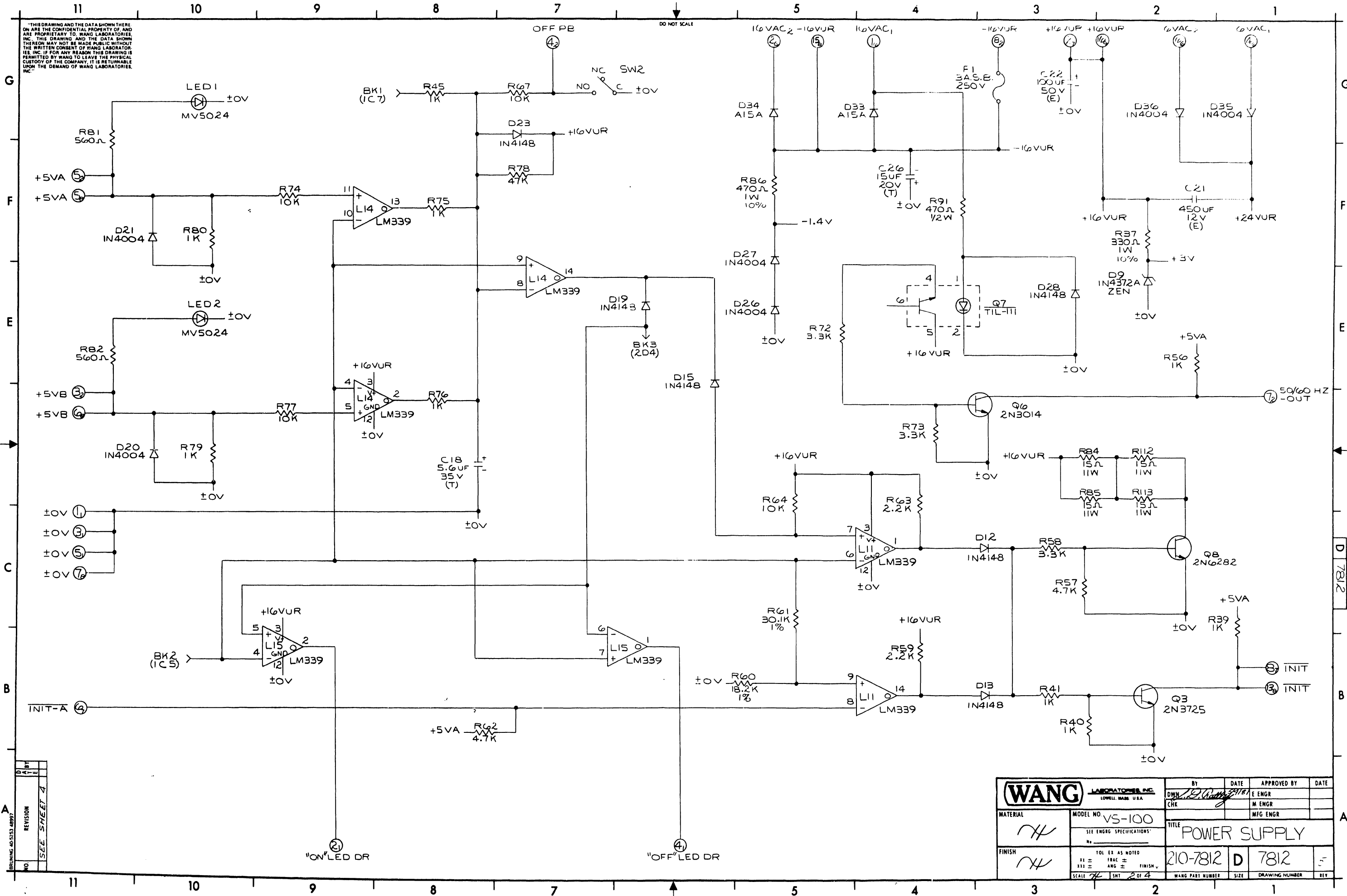
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NO.	REVISION
1	SEE SHEET 4

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DWM	DATE 9/18/71	APPROVED BY E ENGR	DATE
MATERIAL CHK	MODEL NO VS-100 SEE ENGR'S SPECIFICATIONS	CHK		M ENGR	
TITLE POWER SUPPLY		WANG PART NUMBER 210-7812		SIZE D	DRAWING NUMBER 7812
FINISH CHK	TOL. EX. AS NOTED ± FRACTIONAL ± ANG. ± FINISH.	SCALE 1/4"	SMT 1 OF 4	REV 5	

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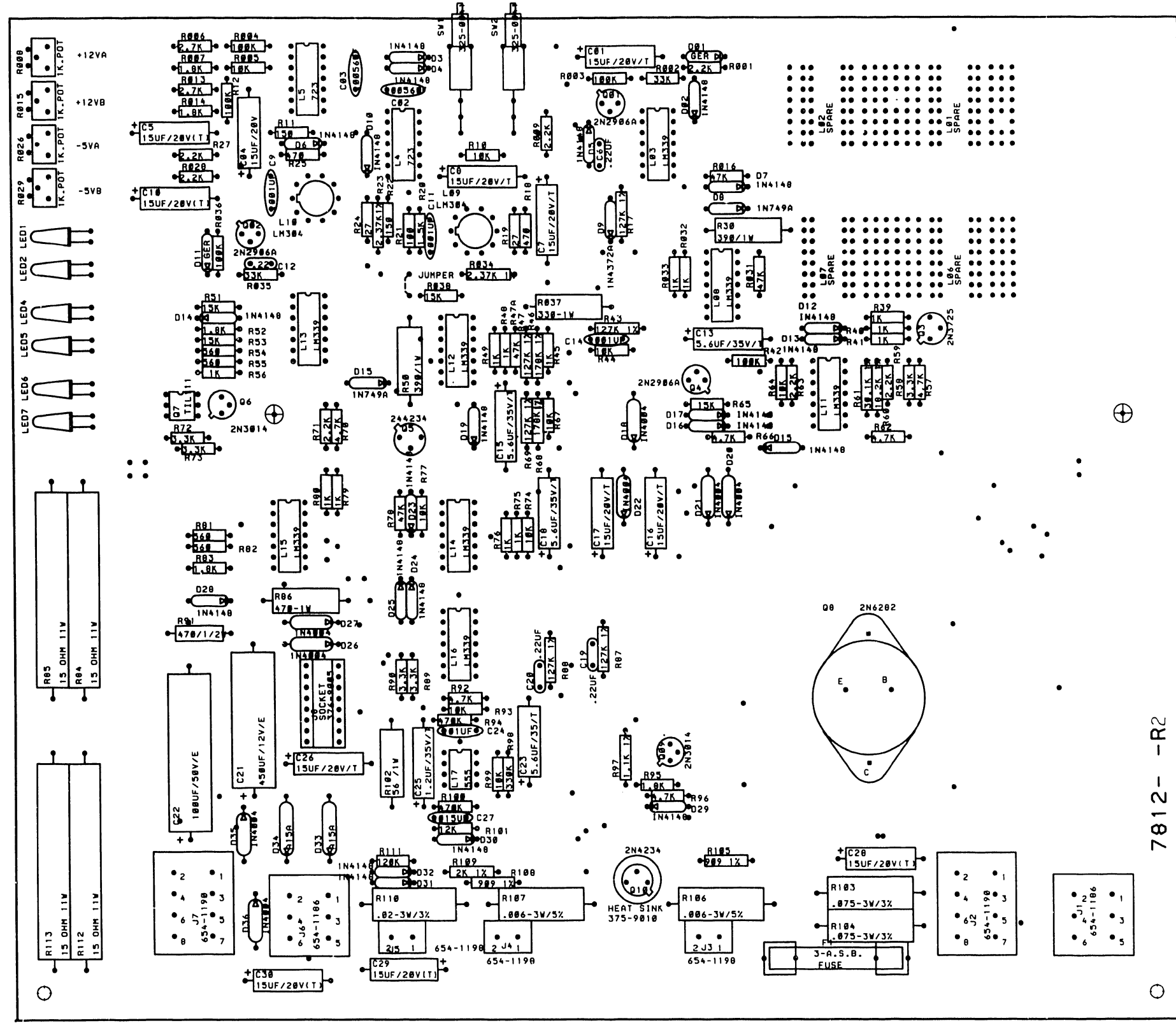


NO.	REVISION
1	SEE SHEET 4

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY D.W. Wang	DATE 3/18/71	APPROVED BY E ENGR	DATE
MATERIAL 74	MODEL NO. VS-100 SEE ENGR SPECIFICATIONS	CHK		M ENGR	
TITLE POWER SUPPLY		210-7812		D	7812
FINISH 74	TOL ER AS NOTED XX = FRAC ± XXX = ANG ± FINISH ±	SCALE 1/8"	SHT 2 OF 4	WANG PART NUMBER	SIZE DRAWING NUMBER

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DO NOT SCALE



7812 - R2

NO.	REVISION
	SEE SHEET 4

WANG 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			MFG ENGR	
FINISH	TOL ER AS NOTED XX ± FRAC ± XXX ± ANG ± FINISH	TITLE POWER SUPPLY			
	SCALE SHT 3 OF 4	210-7812	D	7812	5
		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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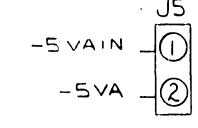
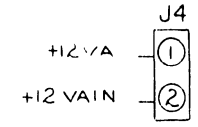
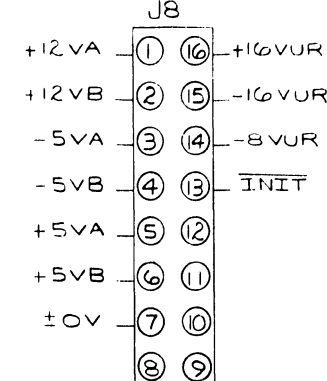
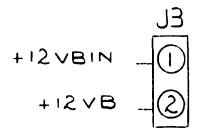
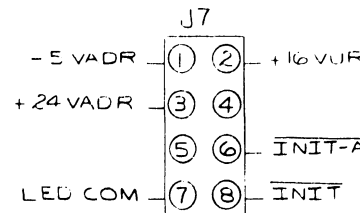
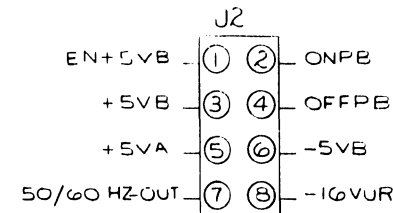
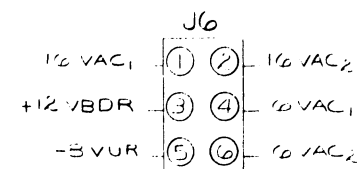
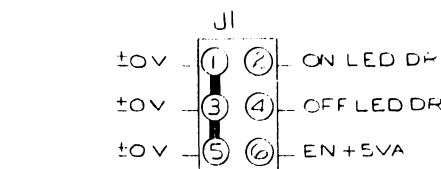
COMPONENT	TYPE	W.L. PART NO.
R1, 2, 28, 59, 63, 71	2.2K 1/4W 5%	330-3023
R2, 35	33K 1/4W 5%	330-4034
R3, 4, 12, 36	100K 1/4W 5%	330-5011
R5, 10, 44, 64, 67, 74, 77, 93, 99	10K 1/4W 5%	330-4011
R6, 13	2.7K 1/4W 5%	330-3028
R7, 14, 52, 83, 95	1.8K 1/4W 5%	330-3019
R8, 15, 26, 29	1K POT	336-1014
R11, 22	150Ω 1/4W 5%	330-2016
R16, 31, 47A, 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 1W 10%	332-2039
R32, 33, 39-41, 45, 48, 49, 56, 75, 76, 79, 80	1K 1/4W 5%	330-3011
R37	330Ω 1W 10%	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	301K 1/8W 1%	333-0063
R84, 85, 112, 113	15Ω 1W	334-0002
R86	470Ω 1W 10%	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 1W 10%	332-1056
R103, 104	.075Ω 3W 3%	334-0035
R105, 108	909Ω 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, 24, 28-30	15UF 20V(T)	300-4022
C2, 3	.0056UF 500V	300-1915
C6, 12, 19, 20	.22UF	300-1902
C9, 11, 14	.001UF 500V	300-1906
C13, 15, 18, 23	5.6UF 35V(T)	300-4017
C21	450UF 12V(E)	300-3043
C22	100UF 50V(E)	300-3052
C24	.01UF 25V	300-1903
C25	1.2UF 35V(T)	300-4013
C27	.015UF	300-1928

COMPONENT	TYPE	W.L. PART NO.
D1, 11	GER	380-0000R
D2-7, 10, 12-17, 19, 23-25, 28-32	IN4148	380-1014
D8, 15A	IN749A ZEN	380-2042
D9	IN4372A ZEN	380-2129
D18, 20-22, 26, 27, 35, 36	IN4004	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	TIL-111	375-2109
Q8	2N6282	375-1046
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	2B11
LED COM	1D1
OFF LED DR	2A6
OFFPB	2G7
ON LED DR	2A9
ONPB	1D11
±OV	2C11
-5VA	1G7
+5VB	2D11
-5VADR	1G9
-5VAIN	1G8
-5VB	1G2
+5VB	2F11
50/60 HZ-OUT	2D1
6 VAC ₁	2G1
6 VAC ₂	2G2
-8VUR	1G2
+12VB	1F11
+12VA	1A11
+12VAIN	1A11
+12VBDR	1A4
+12VBIN	1E11
16 VAC ₁	2G4
16 VAC ₂	2G5
-16VUR	2G5
+16VUR	2G3
-16VUR	2G3
+24VADR	1A7



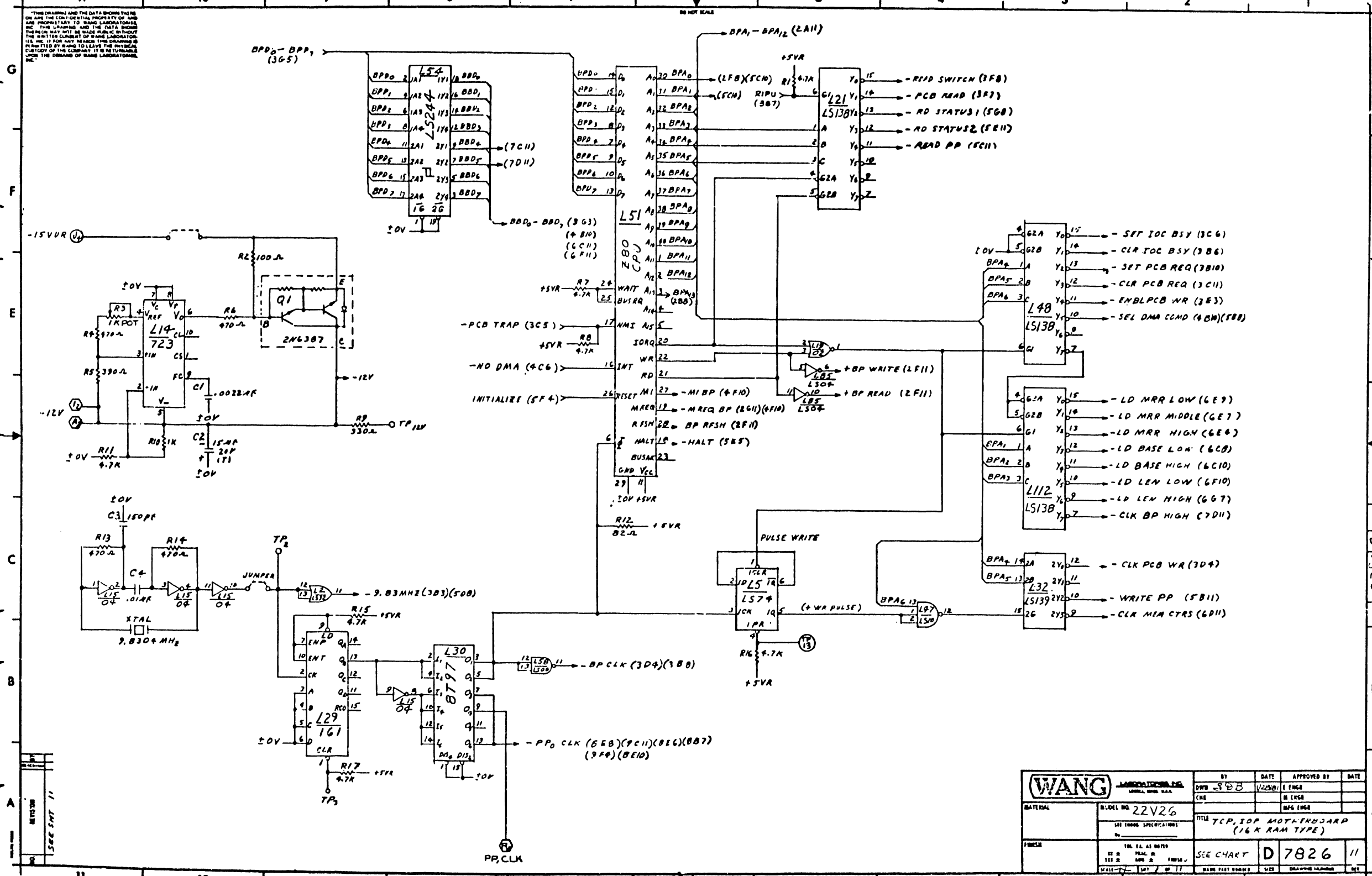
NOTE: ALL RES. ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED.

E-REV
0

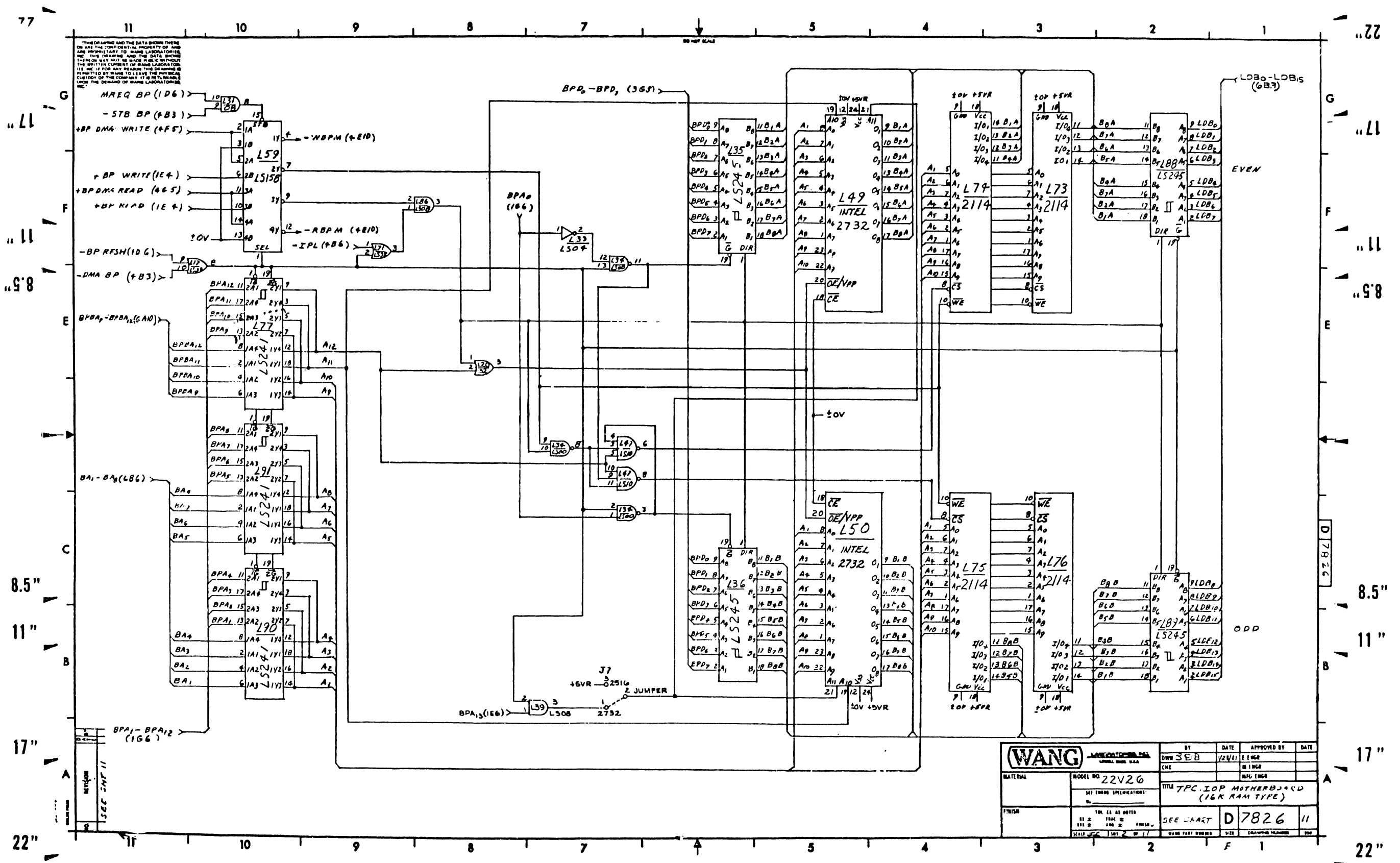
NO	REVISION	BY	DATE	APP'D	CHK'D	REVISED PER
0	ORIGINATED PER	DMR	5/1/82			
1	APP'D PER	DMR	5/28/82			
2	REVISED PER	DMR	7-9-82			
3	ECO # 2127	DMR	1/27/82			
4	ECO # 2127	DMR	5-1-82			
5	ECO # 2127	DMR	5-1-82			
6	ECO # 2127	DMR	5-1-82			
7	ECO # 2127	DMR	5-1-82			
8	ECO # 2127	DMR	5-1-82			
9	ECO # 2127	DMR	5-1-82			
10	ECO # 2127	DMR	5-1-82			

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY DMR	DATE 5/1/82	APPROVED BY E ENGR	DATE 5/1/82
MATERIAL 74	MODEL NO. VS-100	CHK DMR	DATE 6-4-82	MFG ENGR	
TITLE POWER SUPPLY		DRAWING NUMBER 210-7812			
FINISH 74	TOL EX AS NOTED XX = FRAC ± XXX = ANG ±	SCALE 1/8"	SMT 4 OF 4	SIZE D	REV 5

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WANG LABORATORIES, INC.		BY: JPB	DATE: 1/25/68	APPROVED BY: [Signature]	DATE: [Blank]
MATERIAL: [Blank]	MODEL NO: 22V26	CHK: [Blank]	IN: [Blank]	DATE: [Blank]	DATE: [Blank]
TITLE: TCP, IOP MOTORBOARD (16K RAM TYPE)		DATE: [Blank]			
SEE CHART D 7826		DATE: [Blank]			

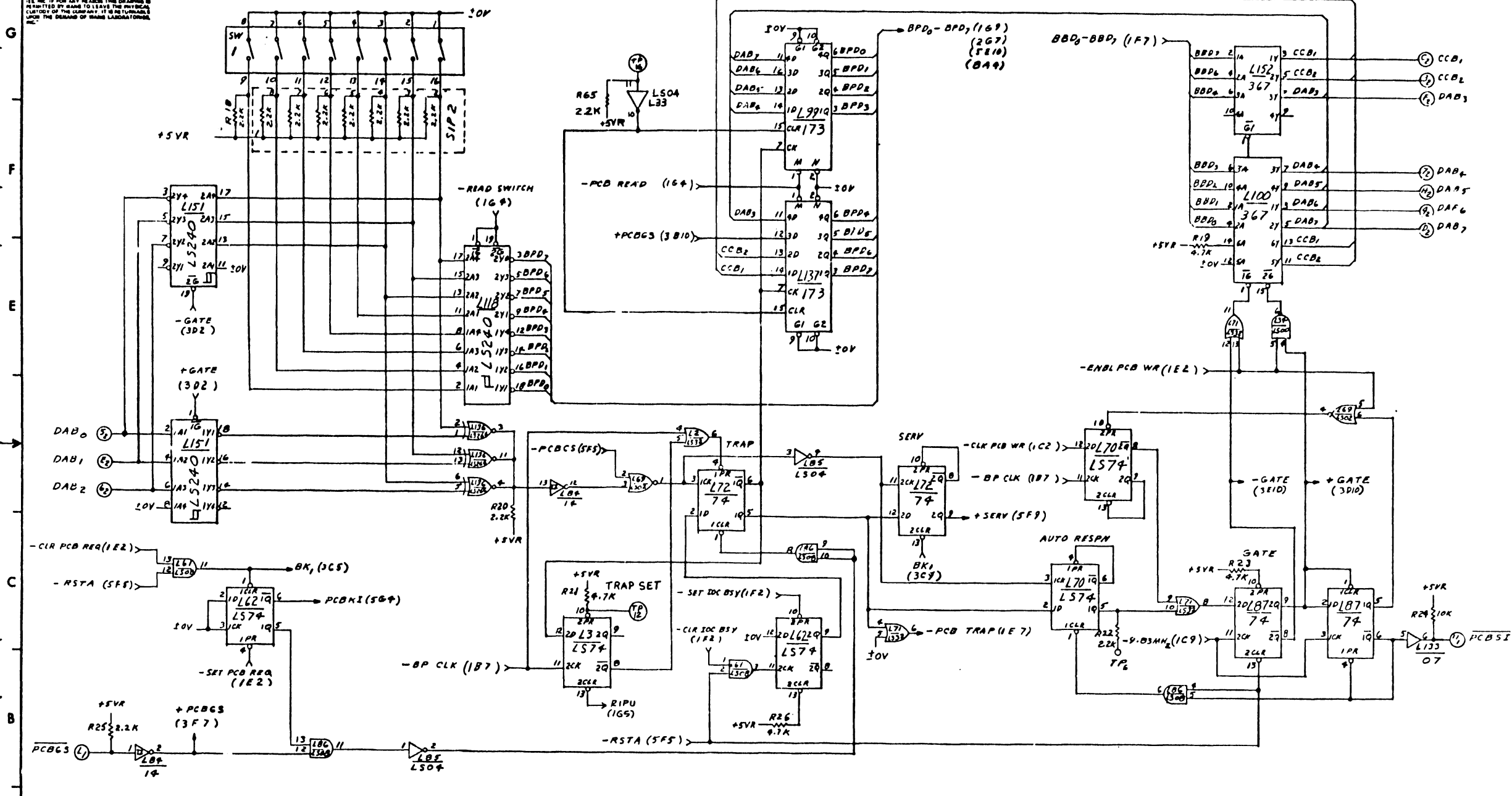


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(WANG) LABORATORIES INC. LOCAL OVER SEA		BY	DATE	APPROVED BY	DATE
DRAWN		DWH	3/8/81	E. INGR	
CHECKED		CHE		B. INGR	
DESIGNED				B. INGR	
MODEL NO. 22V26		TITLE TPC IOP MOTHERBOARD (16K RAM TYPE)			
SEE DRAWING SPECIFICATIONS					
FINISH		SEE PART	D 7826	11	
TOL. 1: 0.0010					
1: 1.2 1: 0.0010					
1: 1.2 1: 0.0010					
SCALE 1: 1					

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

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CUSTOMERS OF THE COMPANY. IT IS TO BE
RETURNED TO WANG UPON THE DEMAND OF WANG LABORATORIES,
INC.



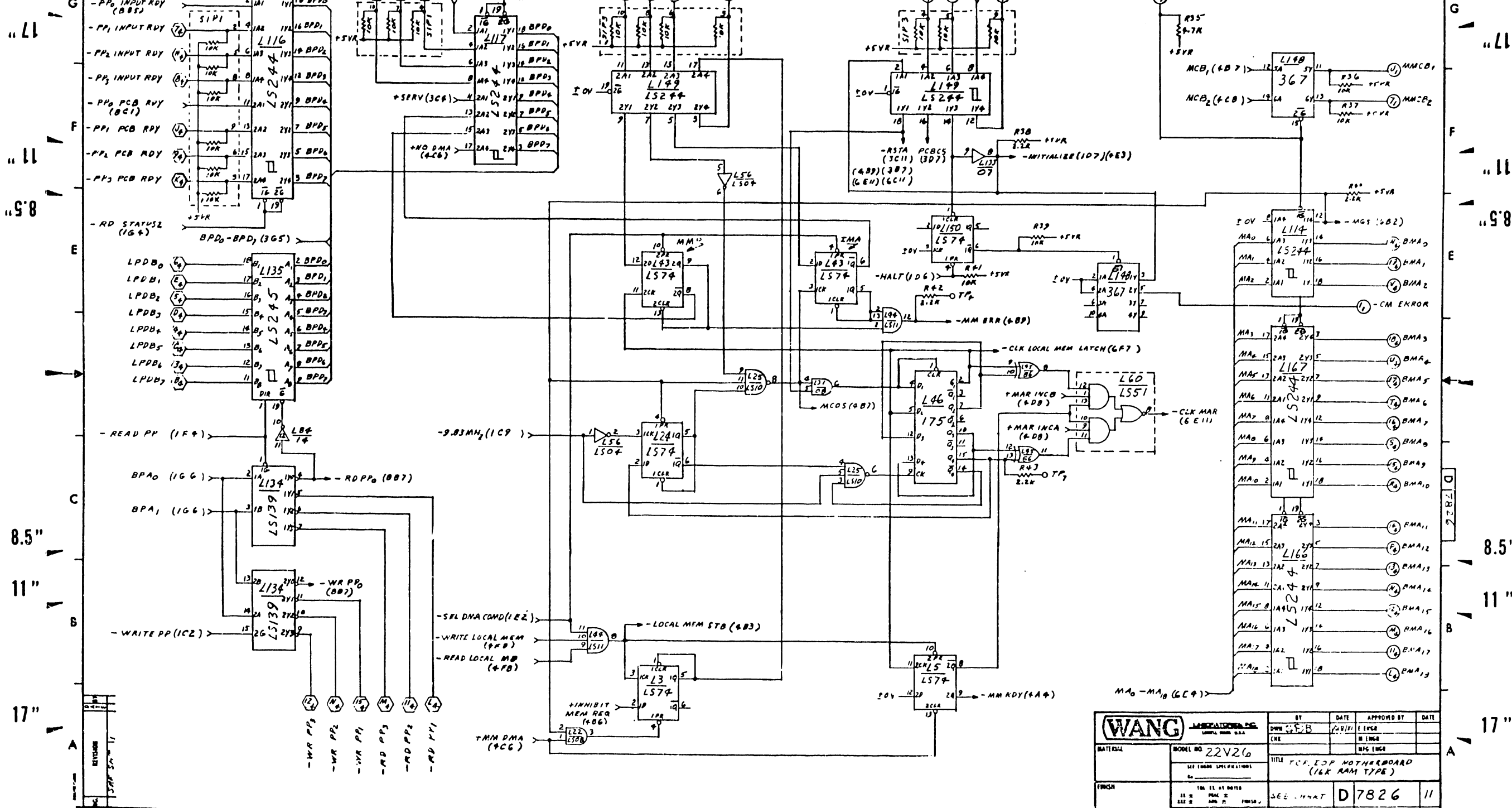
REVISION
DATE
BY
7
6
5
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1

WANG		LABORATORIES, INC.	BY	DATE	APPROVED BY	DATE
ORIGINAL	MODEL NO.	22V26	DWR (ECP)	1/22/69	EMGR	
		MANUFACTURE SPECIFICATION	CNE		B INGR	
					MFG ENGR	
			TITLE: TCP, IOP, MOTHER BOARD (16K RAM TYPE)			
FINISH	FOR 11 AT ORDER		SEE CHART	D 7826	11	
	111 22	111 22	111 22	111 22	111 22	111 22
	SCALE 1/8"	SHEET 11				

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

77 11 10 9 8 7 6 5 4 3 2 1 22

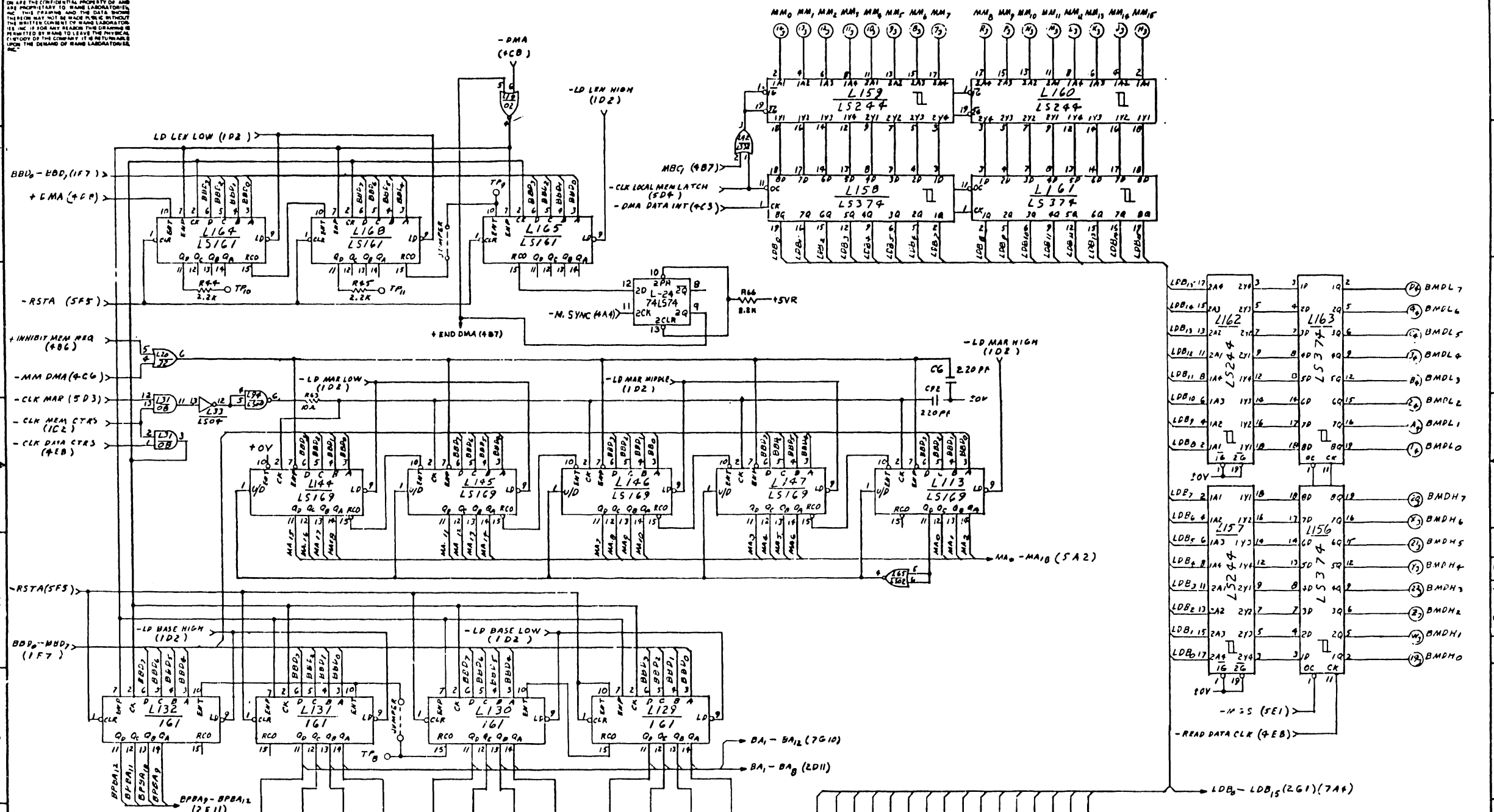
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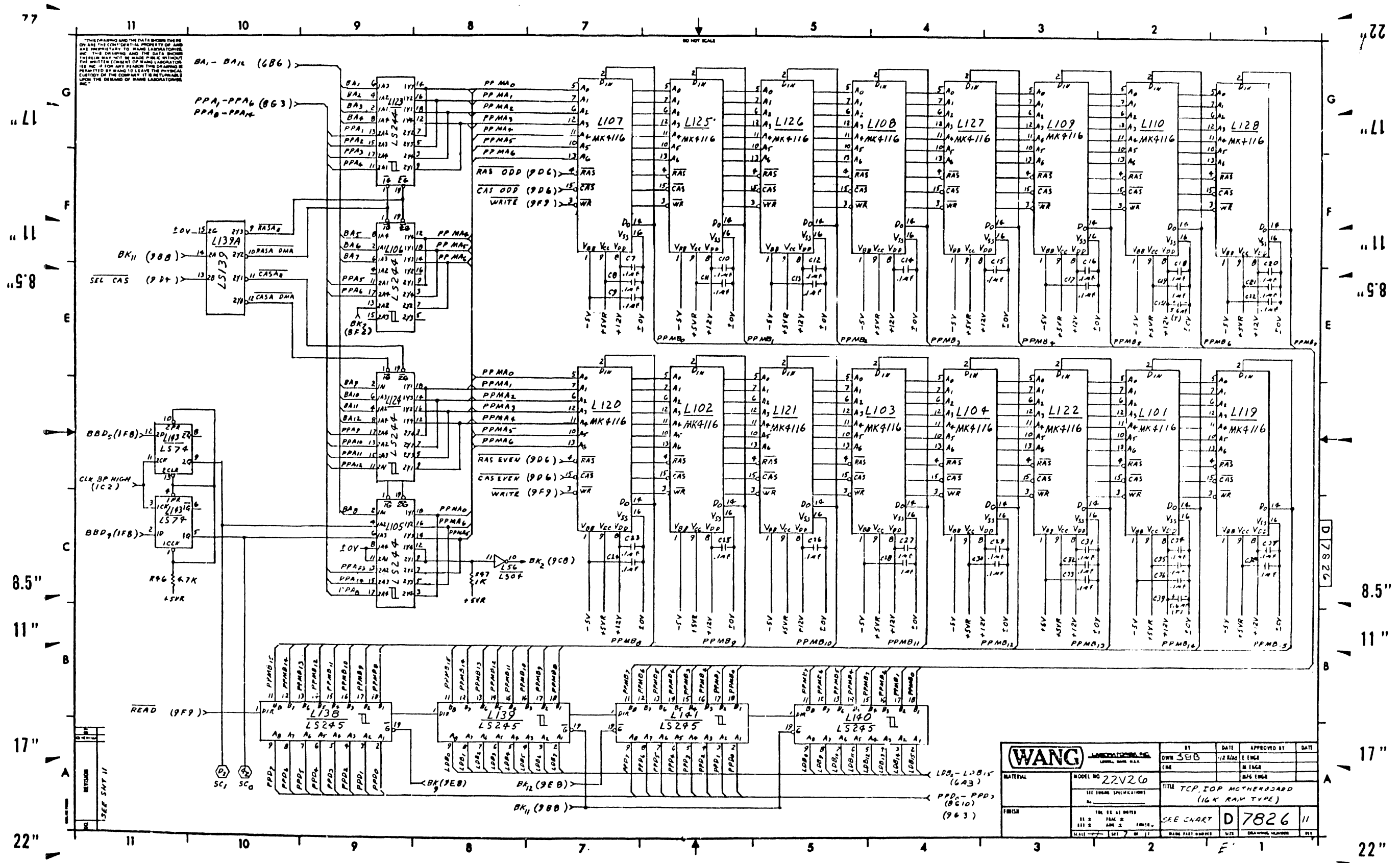
11 10 9 8 7 6 5 4 3 2 1 22

WANG LABORATORIES, INC.		BY: DWB	DATE: 1/11/71	APPROVED BY: LENSE	DATE:
MODEL NO. 22V26		CHK: CHE		BFG ENGR	
TITLE: PCP IOP MOTHERBOARD (16K RAM TYPE)					
SCALE: 1/8" = 1"		DESIGNER: SEE NEXT	DWG NO: D7826	REV: 11	

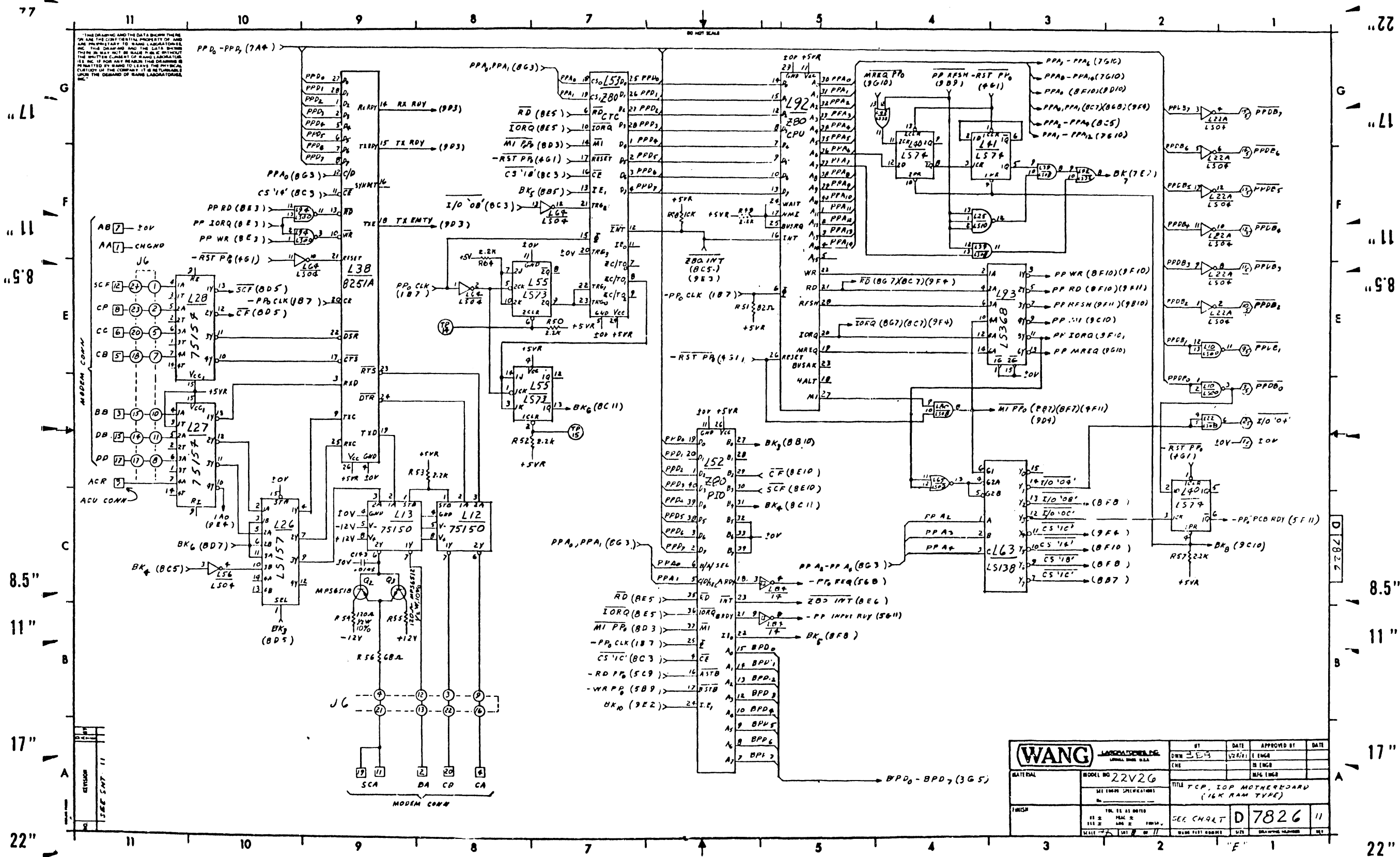
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WANG LABORATORIES, INC. LITTLE ROCK, ARK.		BY DWE	DATE 11/11	APPROVED BY E INGR	DATE
MATERIAL	MODEL NO 22V26	CHK CNE		RE INGR	
MI TUBE SPECIFICATIONS		TITLE TCP, IOP MOTHERBOARD (16K RAM TYPE)			
TUB. 12 AS NOTED		SEE CHART	D 7826	11	
113 2 PLAC 2		DATE FIRST DRAWN	SIZE	DRAWING NUMBER	REV



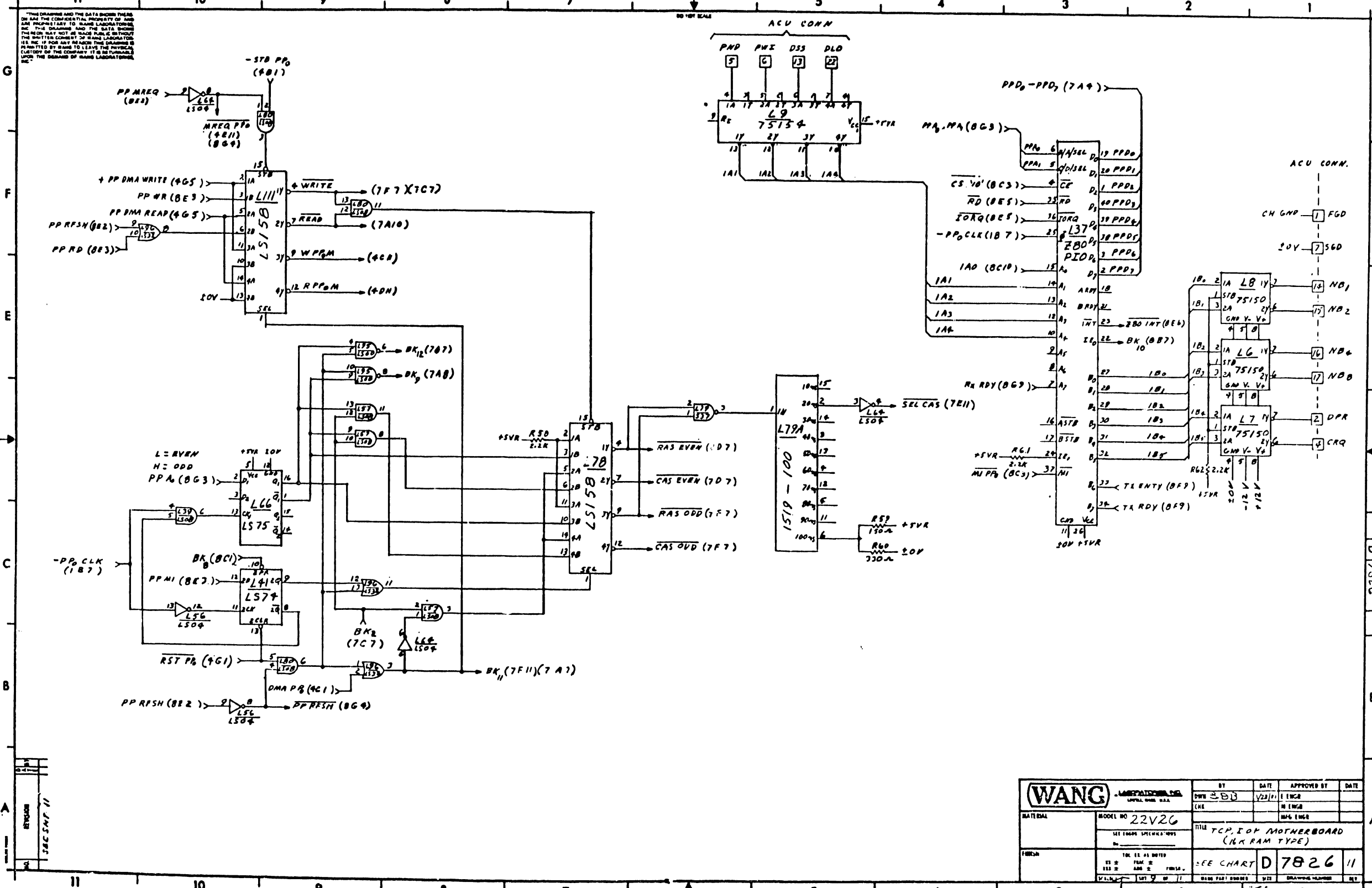
WANG LABORATORIES MEMPHIS, TENN. U.S.A.		BY DWR 3EB	DATE 12 MAR 68	APPROVED BY E INGR	DATE
MODEL NO. 22V26		TITLE TCP, TOP MOTHERBOARD (16K RAM TYPE)			
SERIAL NO. 111		DRAWN BY D 7826		DATE 11	
MATERIAL		FINISH			



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WANG LABORATORIES, INC.		ST	DATE	APPROVED BY	DATE
MODEL NO. 22V26		OWN	2/2/71	ENG	
TITLE TCP, IOP MOTHERBOARD (16K RAM TYPE)		CHK		ENG	
DRAWN BY		CHK		ENG	
DATE 2/2/71		CHK		ENG	
SCALE 1:1		CHK		ENG	
DRAWN BY		CHK		ENG	
DATE 2/2/71		CHK		ENG	
SCALE 1:1		CHK		ENG	

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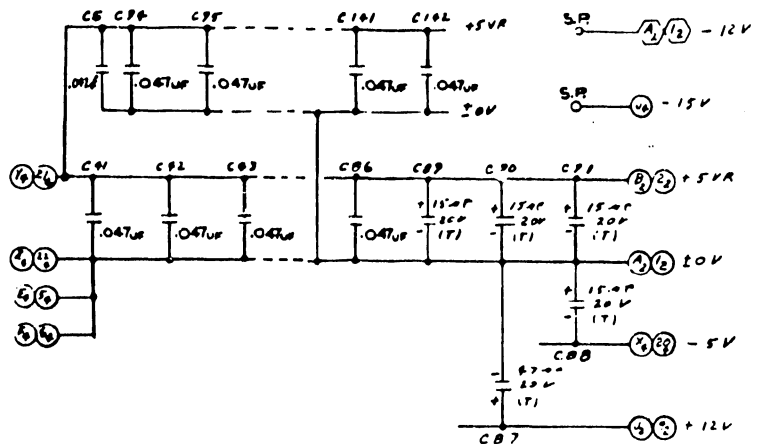
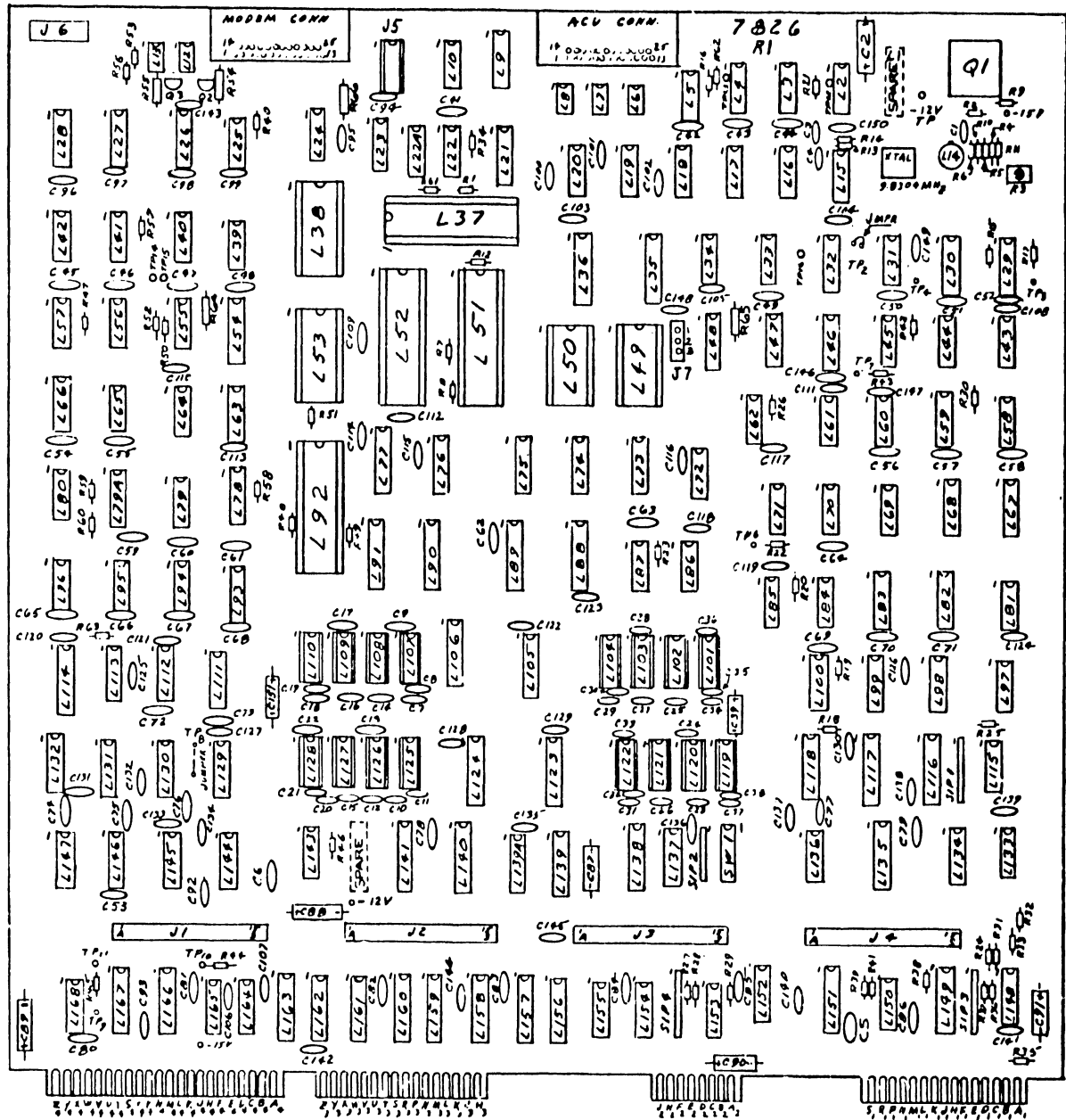


WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO 22V26		DWE	2/28/71	ENG	
SERIAL NUMBER		CNE		ENG	
TITLE		TCP I/O MOTHERBOARD (RAM TYPE)			
DRAWING NUMBER		D 7826 11			
DATE		2/28/71			

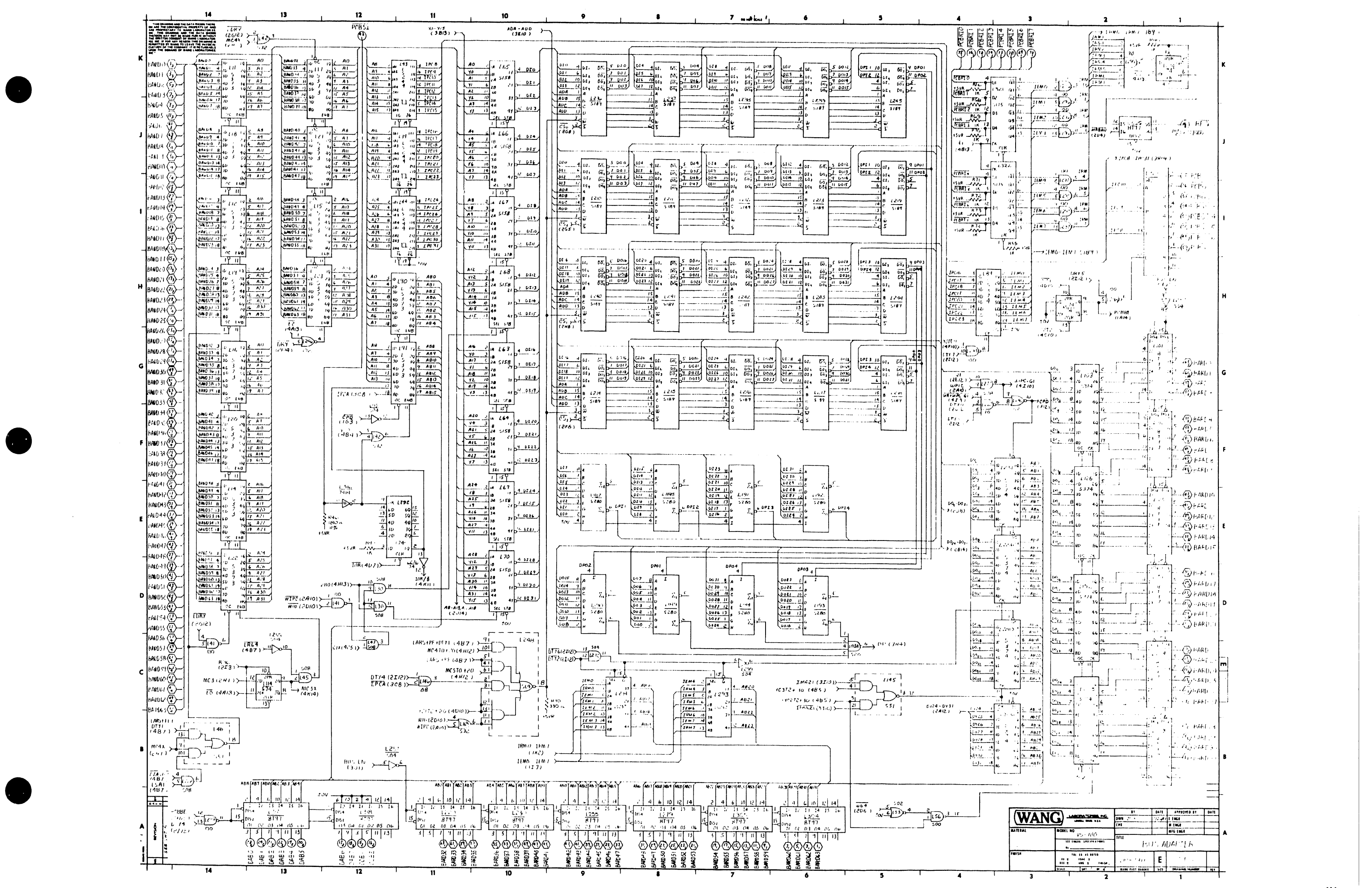
77 11 10 9 8 7 5 4 3 2 1 22
 11 17 11 5 8 8.5 11 17 22
 G F E C B A
 11 10 9 8 7 5 4 3 2 1
 22 17 11 8.5 11 17 22

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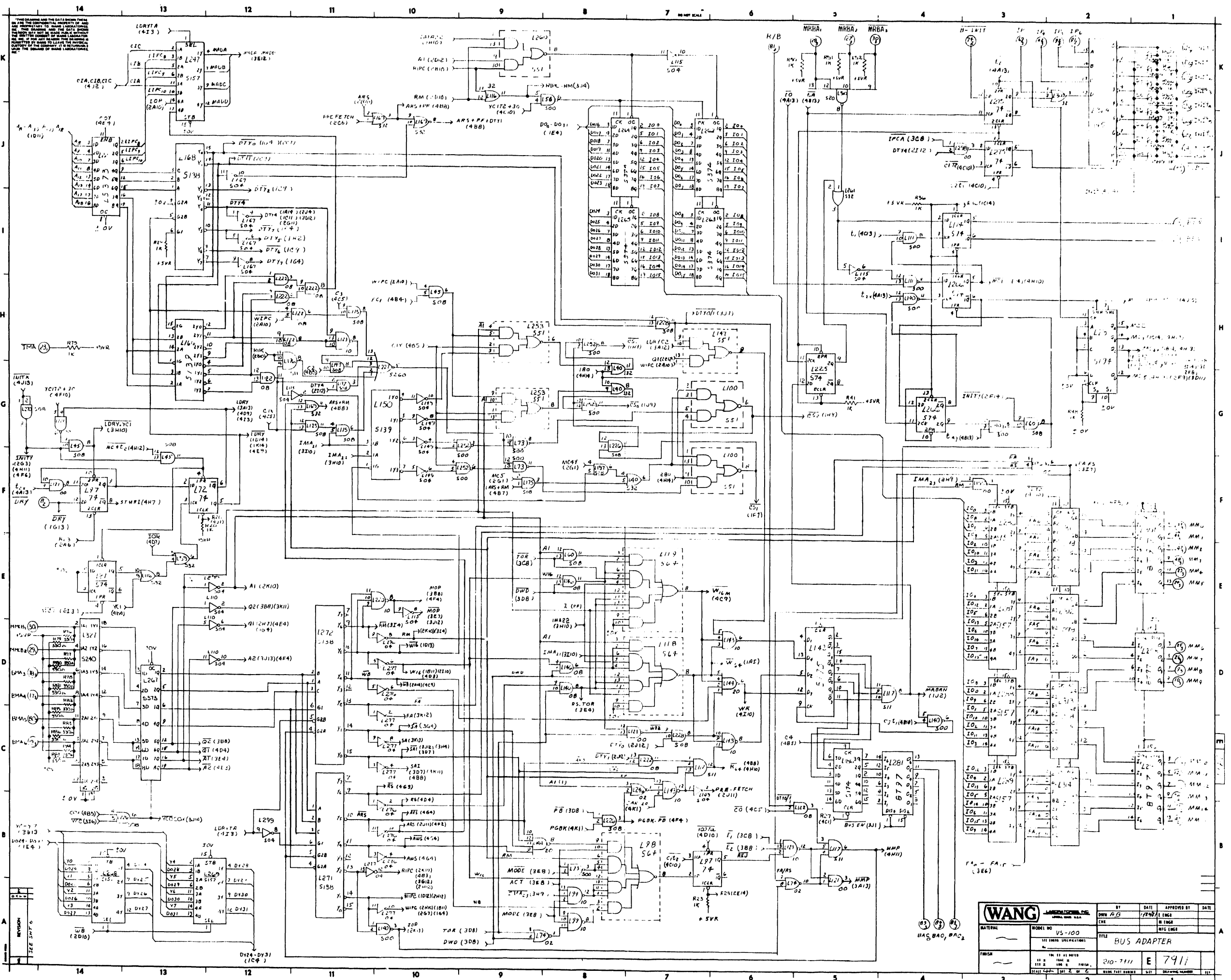
5460-LLF	71820-LLF	5460-LLF	4860-LLF	4206-87E	7108-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
5460-LLF	71860-LLF	5460-LLF	4860-LLF	709-87E	3180-87E	7560-LLF	7460-LLF	7182
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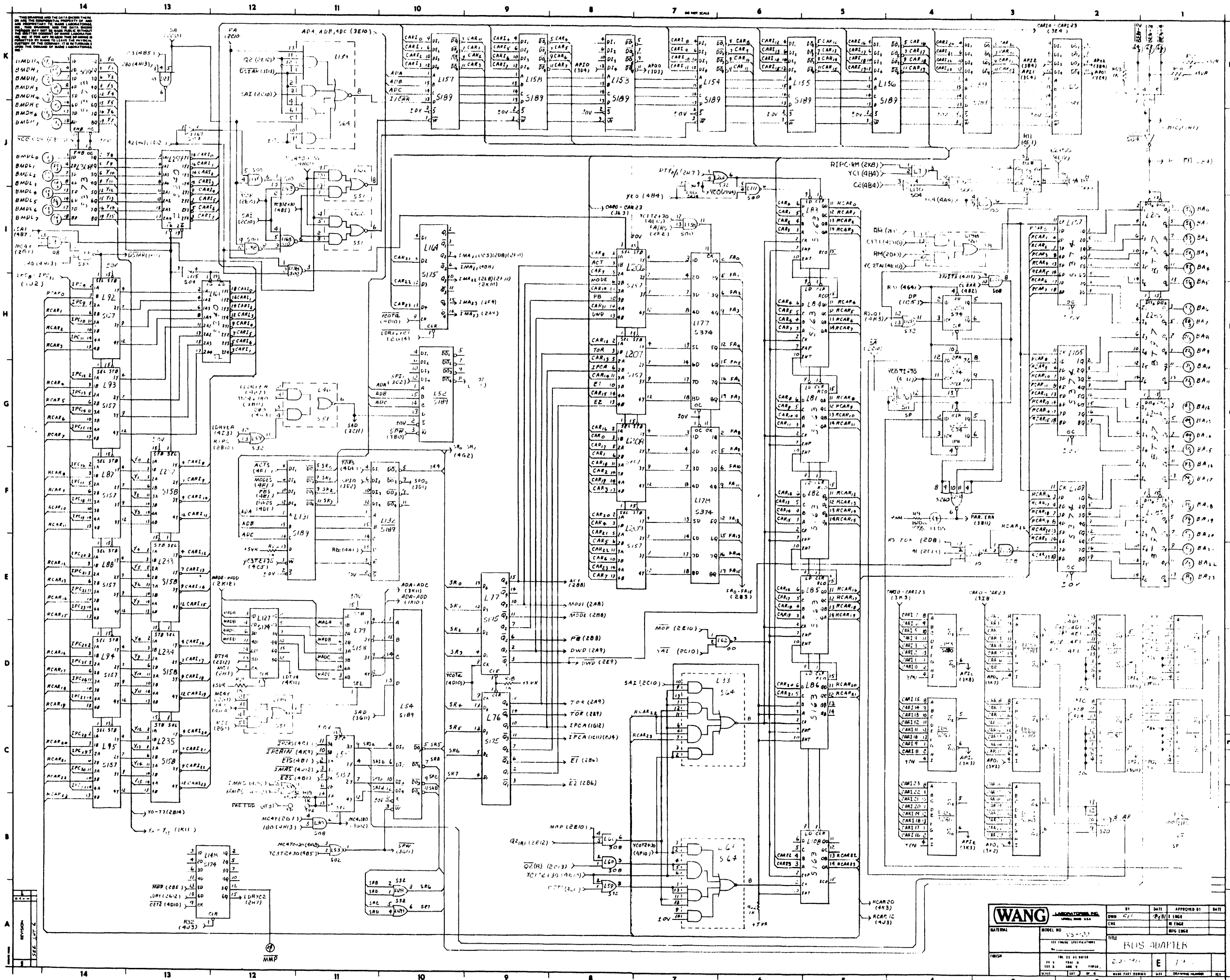
WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MODEL NO. 22V26		OWN	3/8/81	E ENGR	
MATERIAL		CHK		B ENGR	
MFG PART NUMBER		TITLE		MFG ENGR	
SER: L11A-T		D 7826		11	
SCALE 1/8" = 1"		MFG PART NUMBER		MFG PART NUMBER	



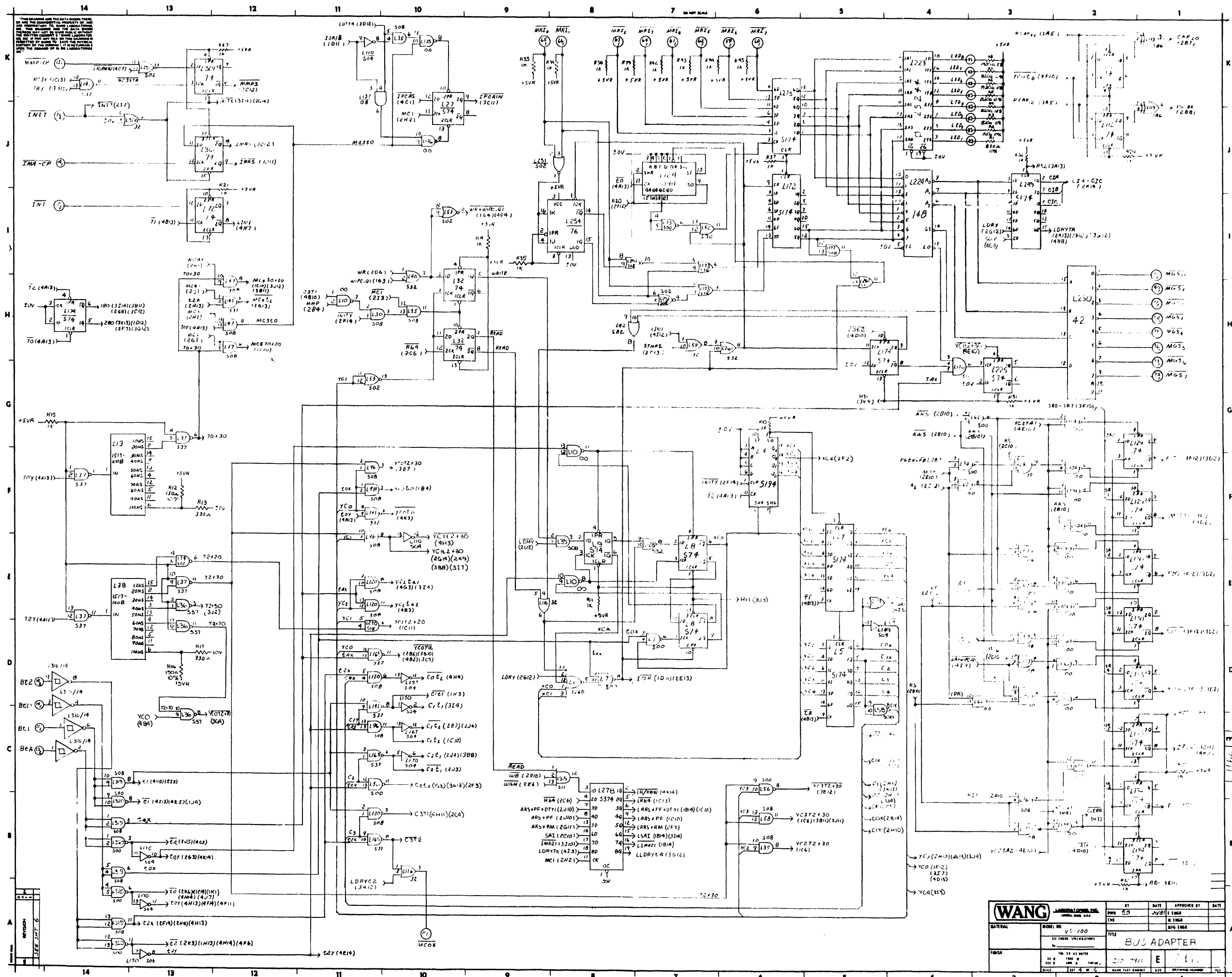
WANG		DATE	BY	APPROVED BY	DATE
MODEL NO. 720		DATE	BY	APPROVED BY	DATE
TITLE		DATE	BY	APPROVED BY	DATE
MATERIAL		DATE	BY	APPROVED BY	DATE
FINISH		DATE	BY	APPROVED BY	DATE
DRAWN		DATE	BY	APPROVED BY	DATE
CHECKED		DATE	BY	APPROVED BY	DATE
DESIGNED		DATE	BY	APPROVED BY	DATE
TESTED		DATE	BY	APPROVED BY	DATE

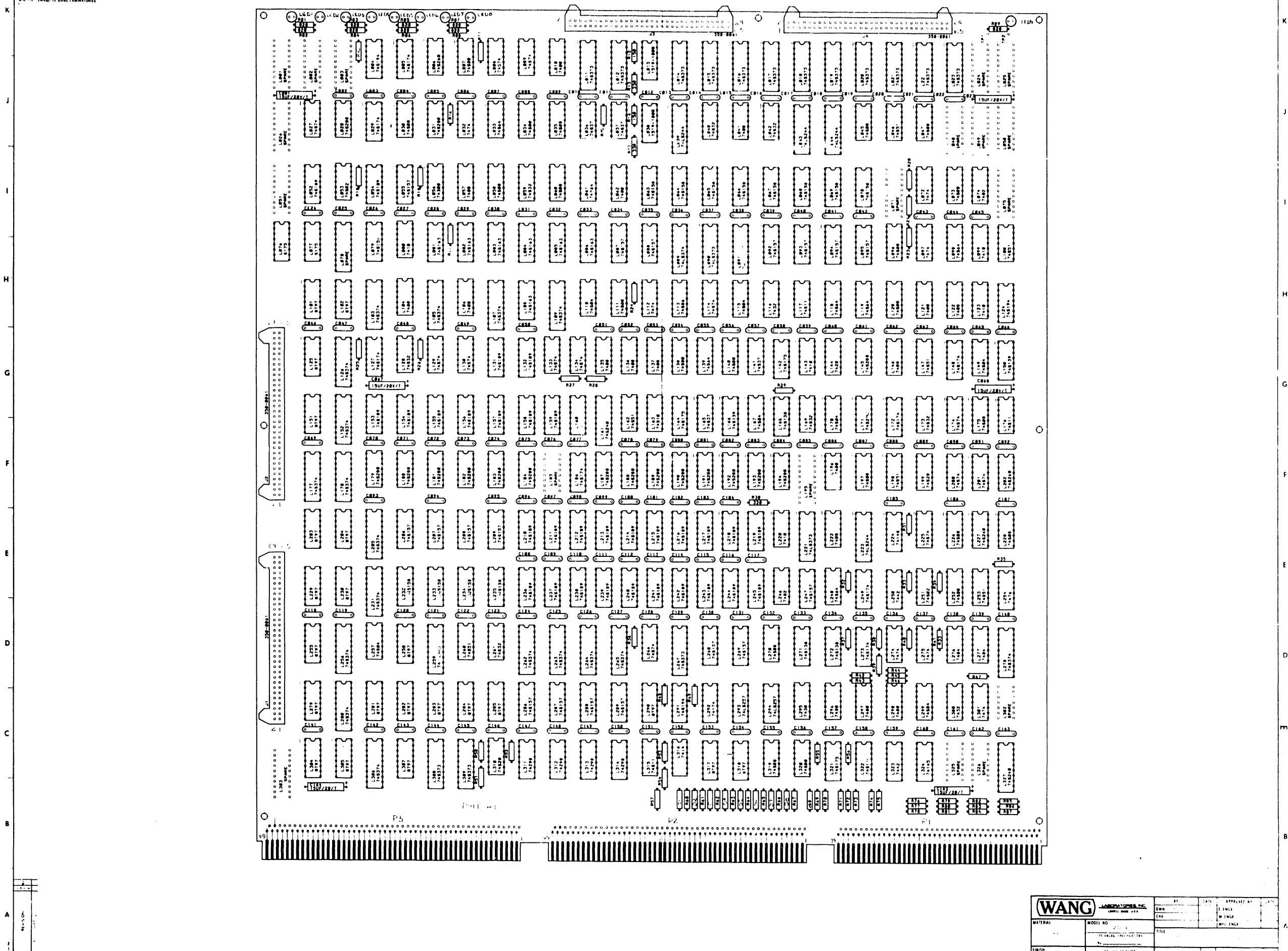


WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. V5-100	DWG. NO.	V5-100	REV.	1
FINISH	100% FINISH	TITLE	BUS ADAPTER	DATE	7/9/71
		SCALE	1:1	SHEET NO.	1



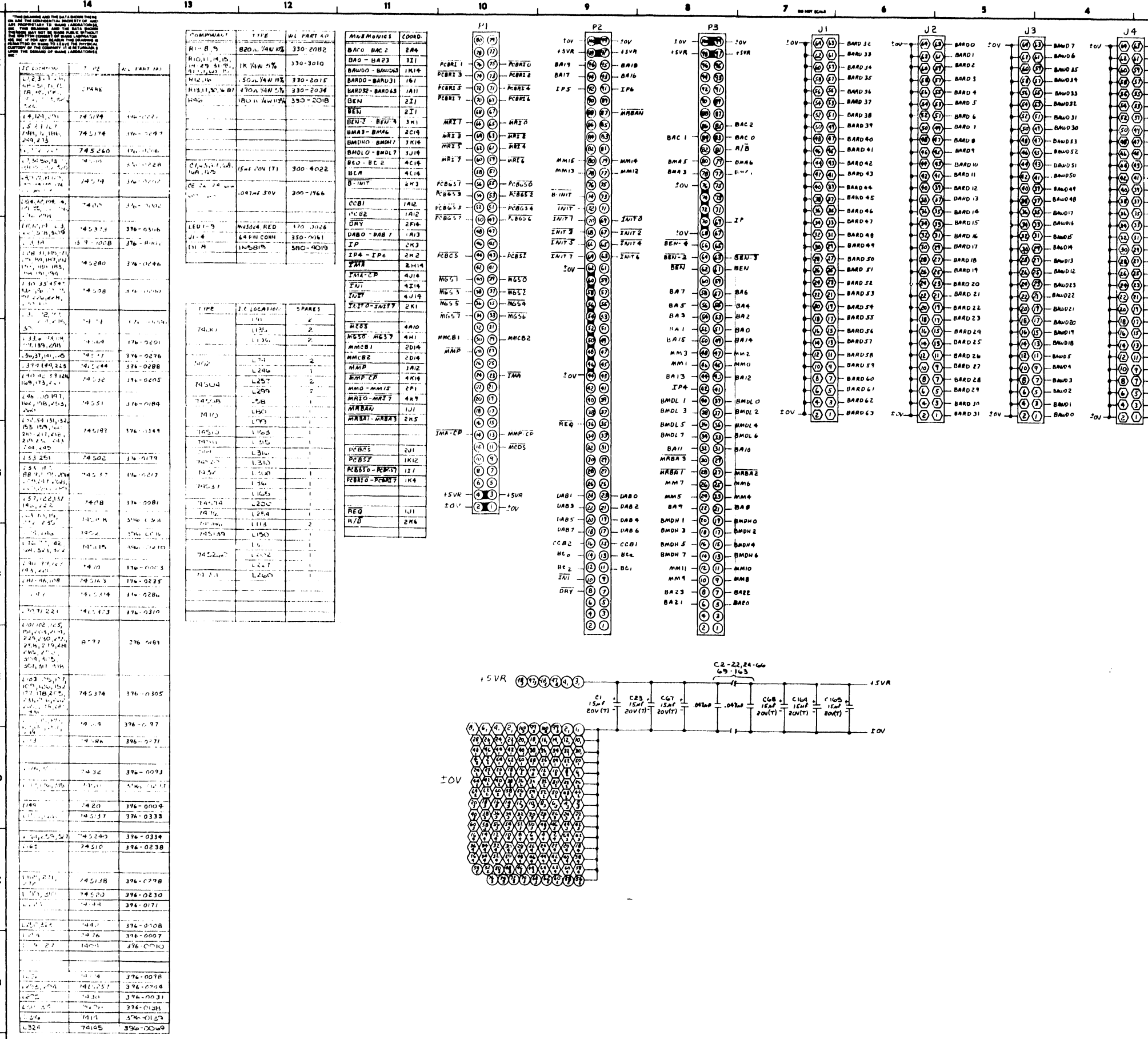
WANG INTERNATIONAL INC.		BY	DATE	APPROVED BY	DATE
LAWRENCEVILLE, GA		DRN	2/8/71	[signature]	
MODEL NO. VS-103		CHK			
TITLE BUS ADAPTER		DES			
DATE 2/8/71		APP			
DRAWN BY [signature]		REV			
CHECKED BY [signature]		DATE			





PROPERTY OF WANG
 INFORMATION SYSTEMS
 DIVISION
 225 WEST WASHINGTON STREET
 BOSTON, MASSACHUSETTS 02111
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 WITHOUT THE WRITTEN PERMISSION OF WANG INFORMATION SYSTEMS DIVISION.

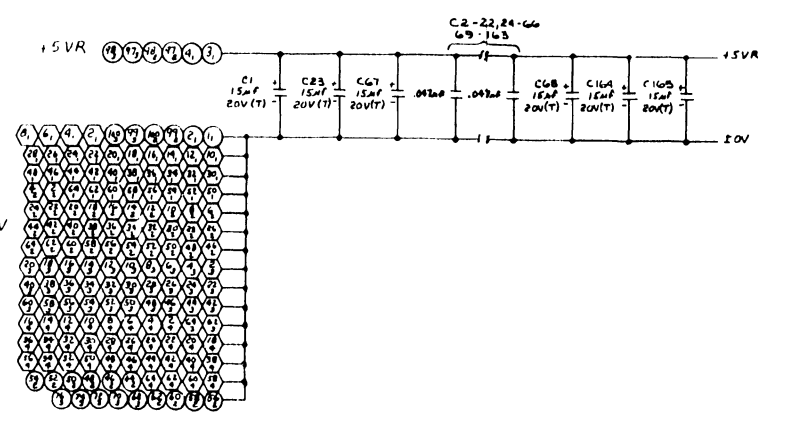
WANG INFORMATION SYSTEMS DIVISION		BY	DATE	APPROVED BY
MATERIAL	MODEL NO.	DRN	ENGR	
FINISH		CHK	ENGR	
		E		



COMPONENT	TYPE	WGT PART NO
R11-B1	820Ω 1/4W 1%	330-2082
R10-1, 11, 15, 19, 29, 31, 39, 41, 45, 49, 51, 55, 59	1K 1/4W 1%	330-3010
R12-16	500Ω 1/4W 1%	330-2015
R13, 11, 20, 27, 47	470Ω 1/4W 1%	330-2036
R14-9	180Ω 1/4W 1%	330-2018
C1-3, 5, 7, 13, 17, 23, 33, 43, 47, 53	15μF 10V 1%	330-4022
C2, 4, 6, 8, 12, 14, 16, 18, 22, 24, 26, 28, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58	0.01μF 50V	300-1966
LED-1-9	MS104 RED	170-3026
J1-4	24PIN CONN	350-2061
J2-6	15PIN	380-4019
J3-7	15PIN	380-4019
J4-8	15PIN	380-4019

NAME	COORD.
BAC0 - BAC2	2A4
BAR0 - BAR23	3I1
BAUD0 - BAUD15	1K14
BAR20 - BAR21	161
BAR22 - BAR23	1A11
BEN	221
BEN-2	221
BEN-3	3K1
BMA3 - BMA6	2C14
BMDH0 - BMDH7	3K14
BMDL0 - BMDL7	3J14
BC0 - BC2	4C14
BLA	4C14
B-INIT	4K3
CCB1	1A2
CCB2	1A2
DRY	2F4
DAB0 - DAB7	1A3
IP	2K3
IP4 - IP6	2K2
IP4	2K14
JATA-CP	4J14
JAV	4Z14
MG5	4J14
MG5T	2K1
MG51	MS50
MG52	MS52
MG53	MG54
MG54	MG54
MG55	MG55
MM1	4A10
MM2	4A11
MM3	2D14
MM4	2D14
MM5	1A2
MM6-CP	4K14
MM6	2P1
MM7	4K3
MM8	101
MM9	2K5
PCBS	2U1
PCBS1	1K12
PCBS2 - PCBS7	121
PCBS3 - PCBS7	1K4
REG	1U1
R/D	2K6

TYPE	J.C. LOCATION	SPARES
7400	L17	2
7400	L13	2
7400	L14	2
7400	L24	1
7400	L25	2
7400	L26	1
7400	L27	1
7400	L28	1
7400	L29	1
7400	L30	1
7400	L31	1
7400	L32	1
7400	L33	1
7400	L34	1
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7400	L36	1
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7400	L38	1
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7400	L44	1
7400	L45	1
7400	L46	1
7400	L47	1
7400	L48	1
7400	L49	1
7400	L50	1



REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
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19			
20			

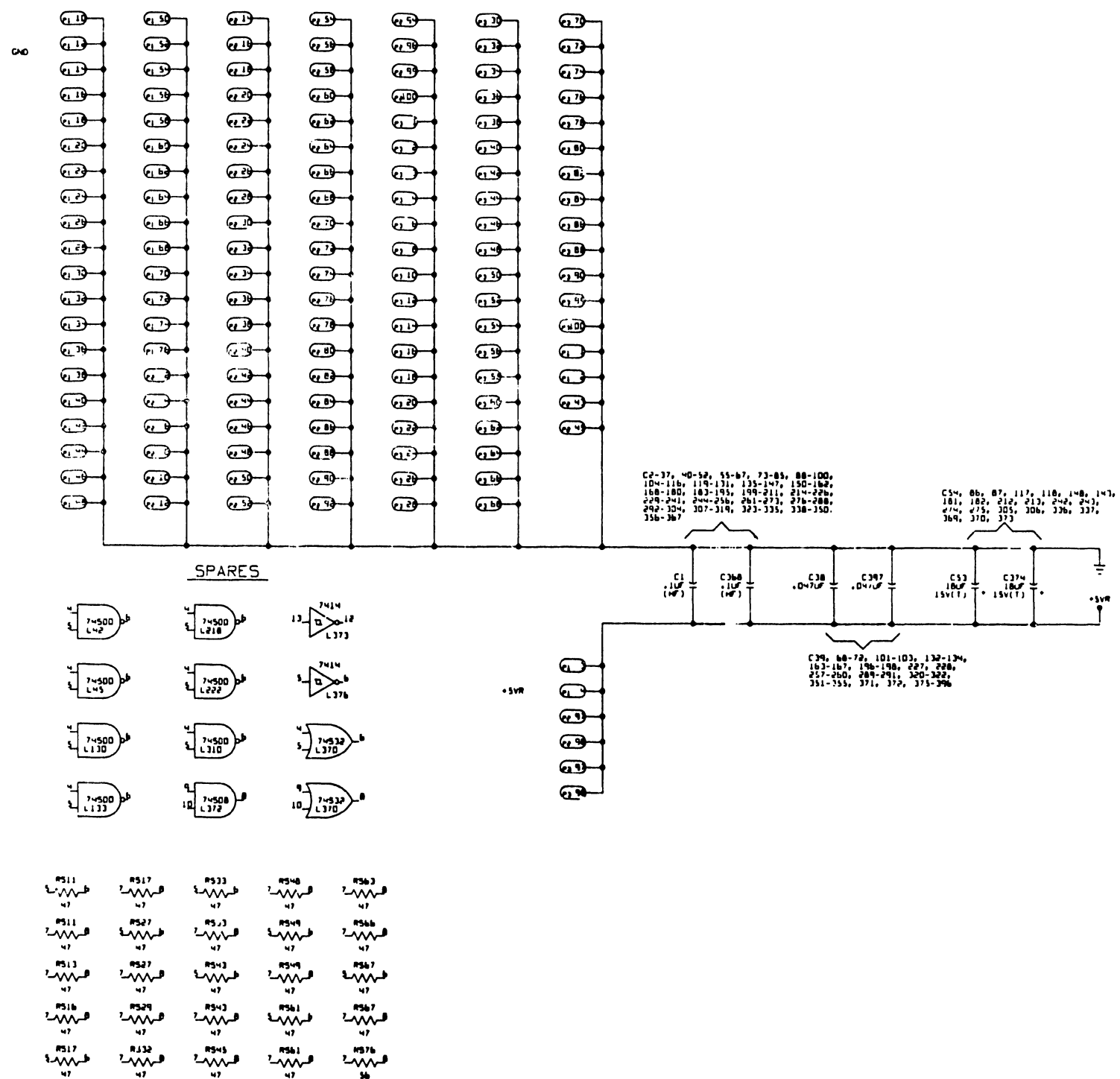
WANG		DATE	APPROVED BY	DATE
MODEL NO.	VS-100	DATE		
TITLE	BUS ADAPTER	REV		
REV	210-711	E	1/11	
SCALE		DATE		

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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. SIGNAL'S IN PARENTHESIS () DENOTES "ODD" MEMORY CARD USED IN 2ND, 4TH, 6TH, AND 8TH SLOTS.

MEMONICS	COORD.
RAM00	2A10
RAM01	2A10
RAM02	210
RAM03	210
RAM04	210
RAM05	217
RAM06	217
RAM07-RAM09	247
RAM10-RAM12	247
RAM13-RAM15	247
RAM17-RAM19	247
RAM20	247
C25	211
C29	211
C222	2G11
MEM00-MEM05	2A1
MEM06-MEM011	211
MEM012-MEM015	211
MEM016-MEM019	2G1
MEM020-MEM023	211
MEM024-MEM027	2A1
MEM028-MEM031	211
MEM032-MEM037	211
MEM038-MEM047	211
MEM048-MEM051	2G1
MEM052-MEM057	2A1
MEM058-MEM063	211
MEM064-MEM073	2A14
MEM074-MEM083	2114
MEM084-MEM093	2114
MEM094-MEM103	2114
MEM104-MEM113	2G14
MEM114-MEM123	2114
MEM124-MEM133	2114
MEM134-MEM143	2114
MEM144-MEM153	2114
MEM154-MEM163	2114
MEM164-MEM173	2114
MEM174-MEM183	2114
MEM184-MEM193	2114
MEM194-MEM203	2114
MEM204-MEM213	2114
MEM214-MEM223	2114
MEM224-MEM233	2114
MEM234-MEM243	2114
MEM244-MEM253	2114
MEM254-MEM263	2114
MEM264-MEM273	2114
MEM274-MEM283	2114
MEM284-MEM293	2114
MEM294-MEM303	2114
MEM304-MEM313	2114
MEM314-MEM323	2114
MEM324-MEM333	2114
MEM334-MEM343	2114
MEM344-MEM353	2114
MEM354-MEM363	2114
MEM364-MEM373	2114
MEM374-MEM383	2114
MEM384-MEM393	2114
MEM394-MEM403	2114
MEM404-MEM413	2114
MEM414-MEM423	2114
MEM424-MEM433	2114
MEM434-MEM443	2114
MEM444-MEM453	2114
MEM454-MEM463	2114
MEM464-MEM473	2114
MEM474-MEM483	2114
MEM484-MEM493	2114
MEM494-MEM503	2114
MEM504-MEM513	2114
MEM514-MEM523	2114
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MEM534-MEM543	2114
MEM544-MEM553	2114
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MEM574-MEM583	2114
MEM584-MEM593	2114
MEM594-MEM603	2114
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MEM614-MEM623	2114
MEM624-MEM633	2114
MEM634-MEM643	2114
MEM644-MEM653	2114
MEM654-MEM663	2114
MEM664-MEM673	2114
MEM674-MEM683	2114
MEM684-MEM693	2114
MEM694-MEM703	2114
MEM704-MEM713	2114
MEM714-MEM723	2114
MEM724-MEM733	2114
MEM734-MEM743	2114
MEM744-MEM753	2114
MEM754-MEM763	2114
MEM764-MEM773	2114
MEM774-MEM783	2114
MEM784-MEM793	2114
MEM794-MEM803	2114
MEM804-MEM813	2114
MEM814-MEM823	2114
MEM824-MEM833	2114
MEM834-MEM843	2114
MEM844-MEM853	2114
MEM854-MEM863	2114
MEM864-MEM873	2114
MEM874-MEM883	2114
MEM884-MEM893	2114
MEM894-MEM903	2114
MEM904-MEM913	2114
MEM914-MEM923	2114
MEM924-MEM933	2114
MEM934-MEM943	2114
MEM944-MEM953	2114
MEM954-MEM963	2114
MEM964-MEM973	2114
MEM974-MEM983	2114
MEM984-MEM993	2114
MEM994-MEM1003	2114



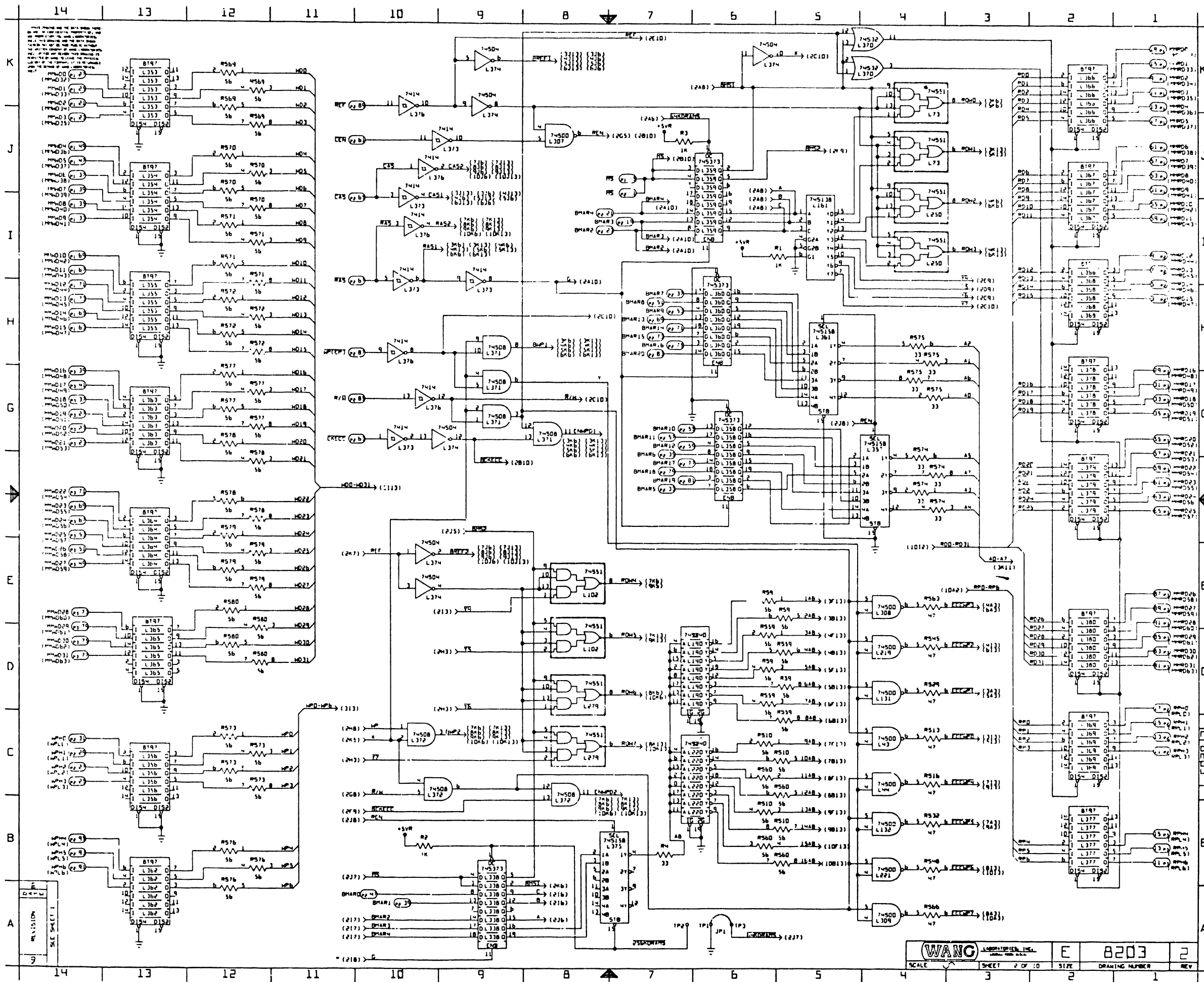
C2-37, 40-52, 55-67, 73-85, 88-100, 104-116, 119-131, 135-147, 150-162, 168-180, 183-195, 199-211, 214-226, 229-241, 244-256, 261-273, 276-288, 292-304, 307-319, 323-335, 338-350, 356-367

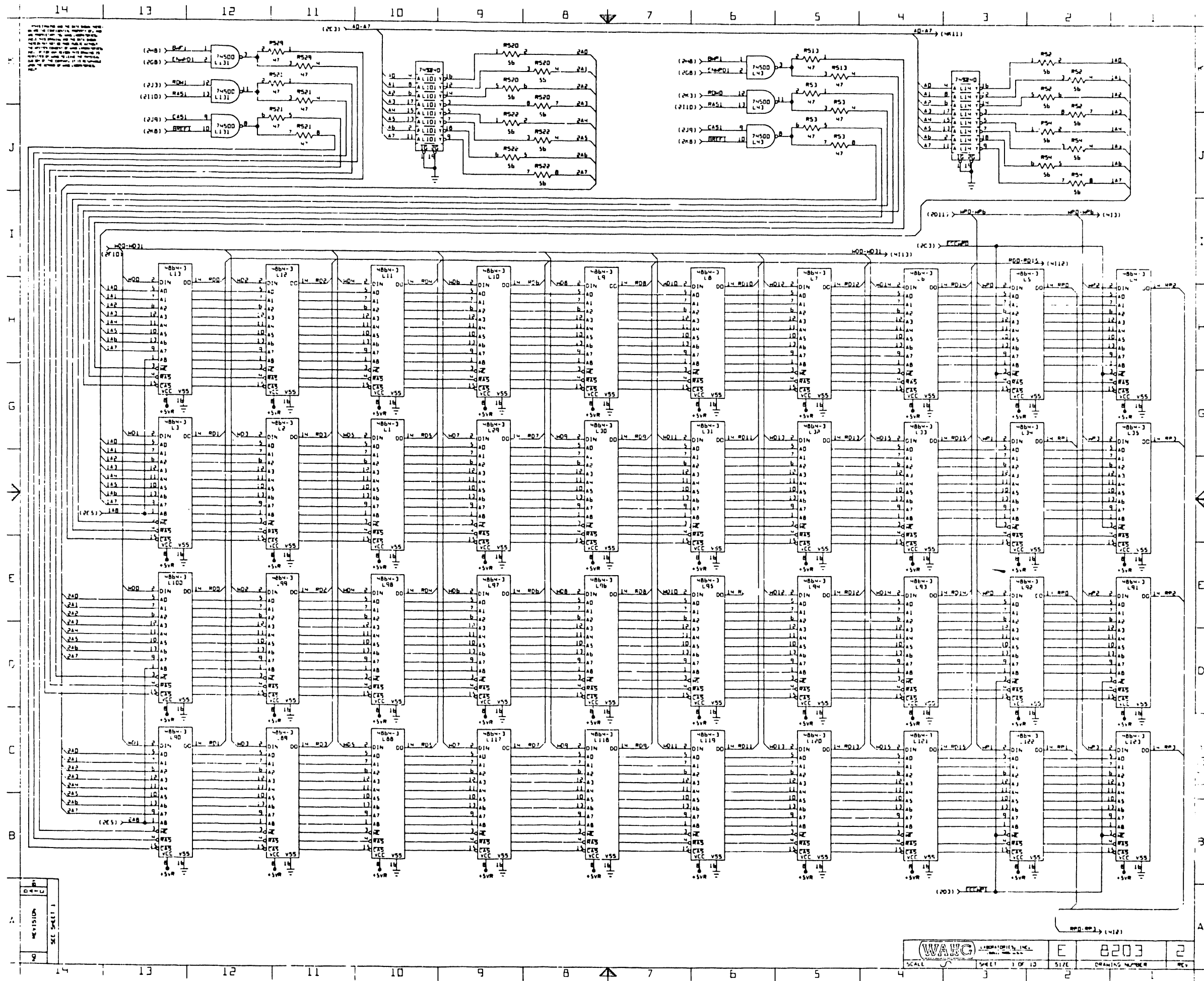
C34, 86, 87, 117, 118, 148, 149, 181, 182, 212, 213, 242, 243, 274, 275, 305, 306, 336, 337, 368, 370, 373

C39, 88-92, 101-103, 132-134, 163-167, 196-198, 227, 228, 257-260, 288-291, 320-322, 351-355, 371, 372, 375-376

REV	DESCRIPTION	DATE	BY
1	DESIGNATED PER	1-12-83	AB
2	REVISION PER	1-19-84	7-3-BH
3	REVISION PER		
4	REVISION PER		

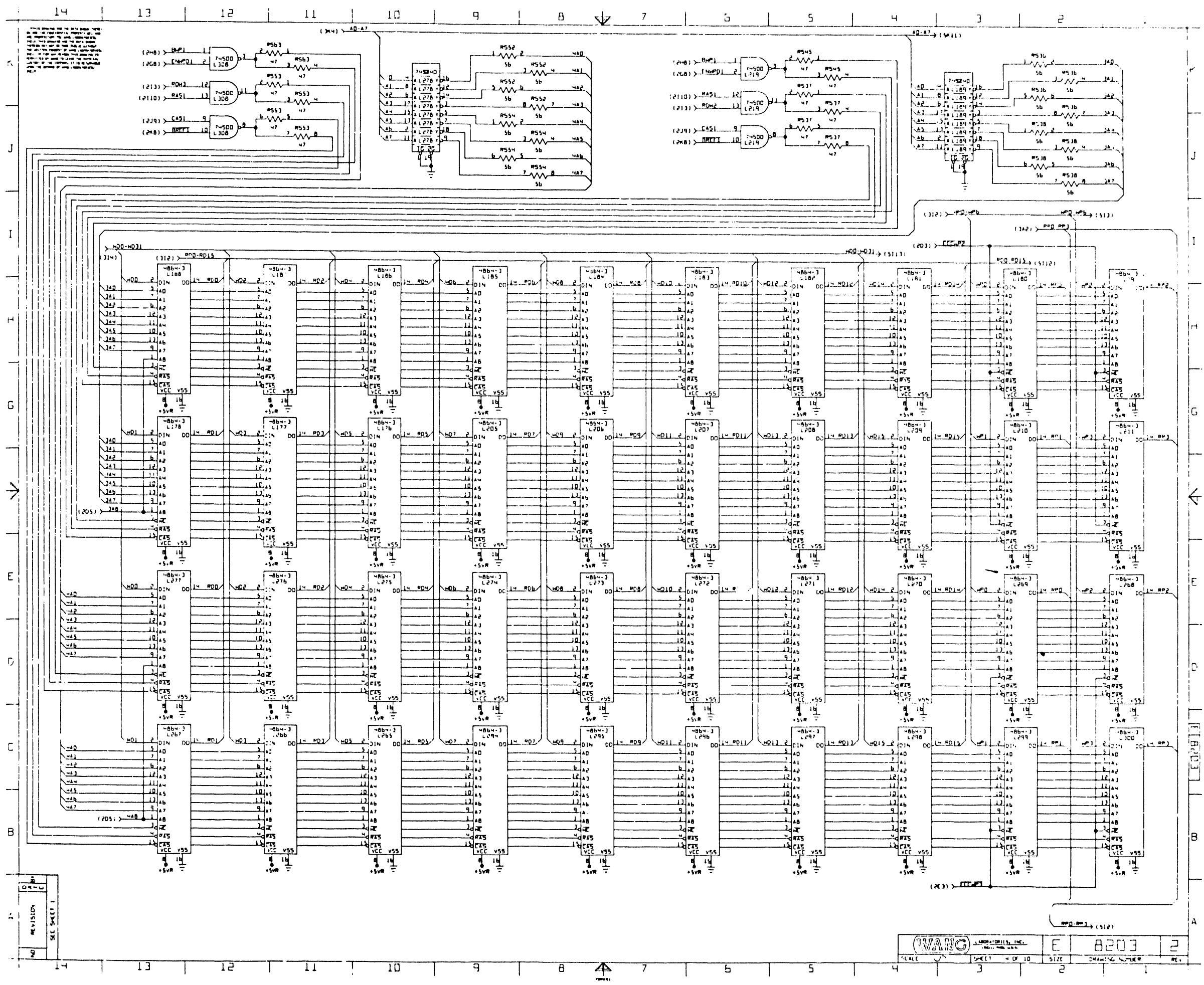
WANG LABORATORIES, INC.		SCHEMATIC DIAGRAM	
MODEL NO. 40062A		TITLE	
V5-85/90/100		2MEG MAIN MEM M/L	
DATE	REV	ENG	DRG
1-12-83	1	ENG	DRG
SHEET 1 OF 10		SIZE	DRAWING NUMBER
SCALE		8203	2





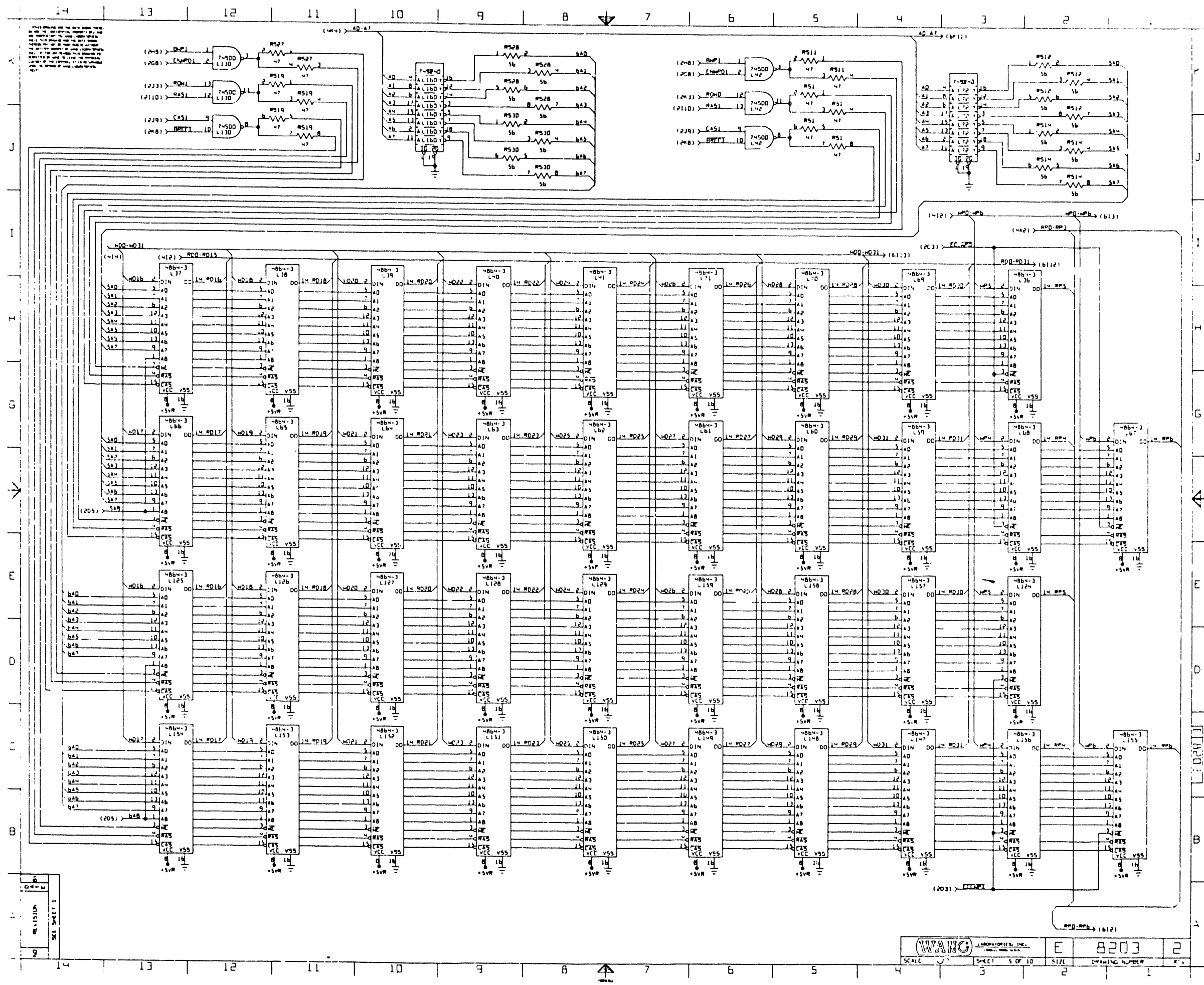
REVISION
NO. 1
SEE SHEET 1

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

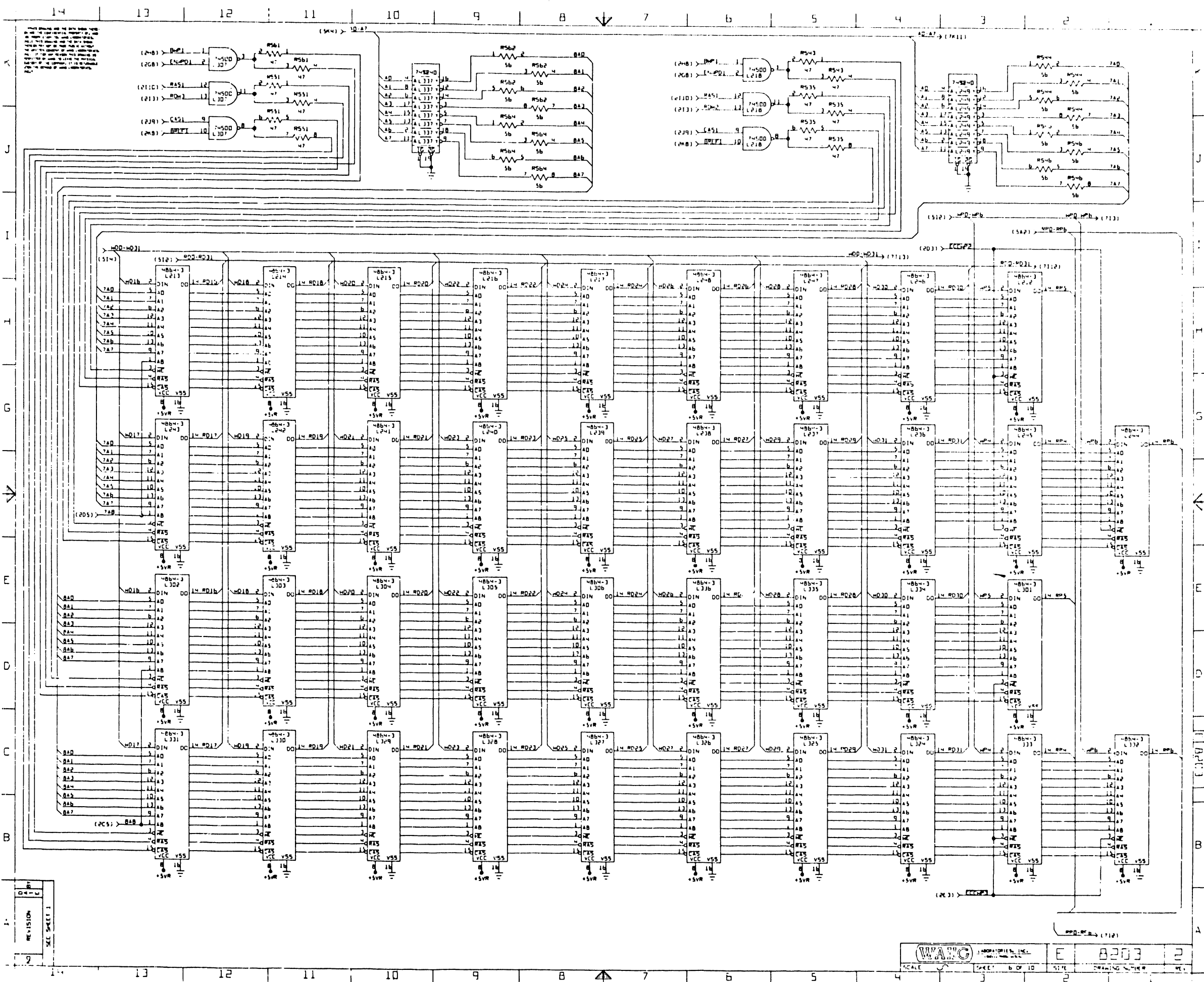


REVISION
SEE SHEET 1

WANG LABORATORIES, INC.		E 8203	2
SCALE	SHEET 4 OF 10	SIZE	DRAWING NUMBER
		REV.	

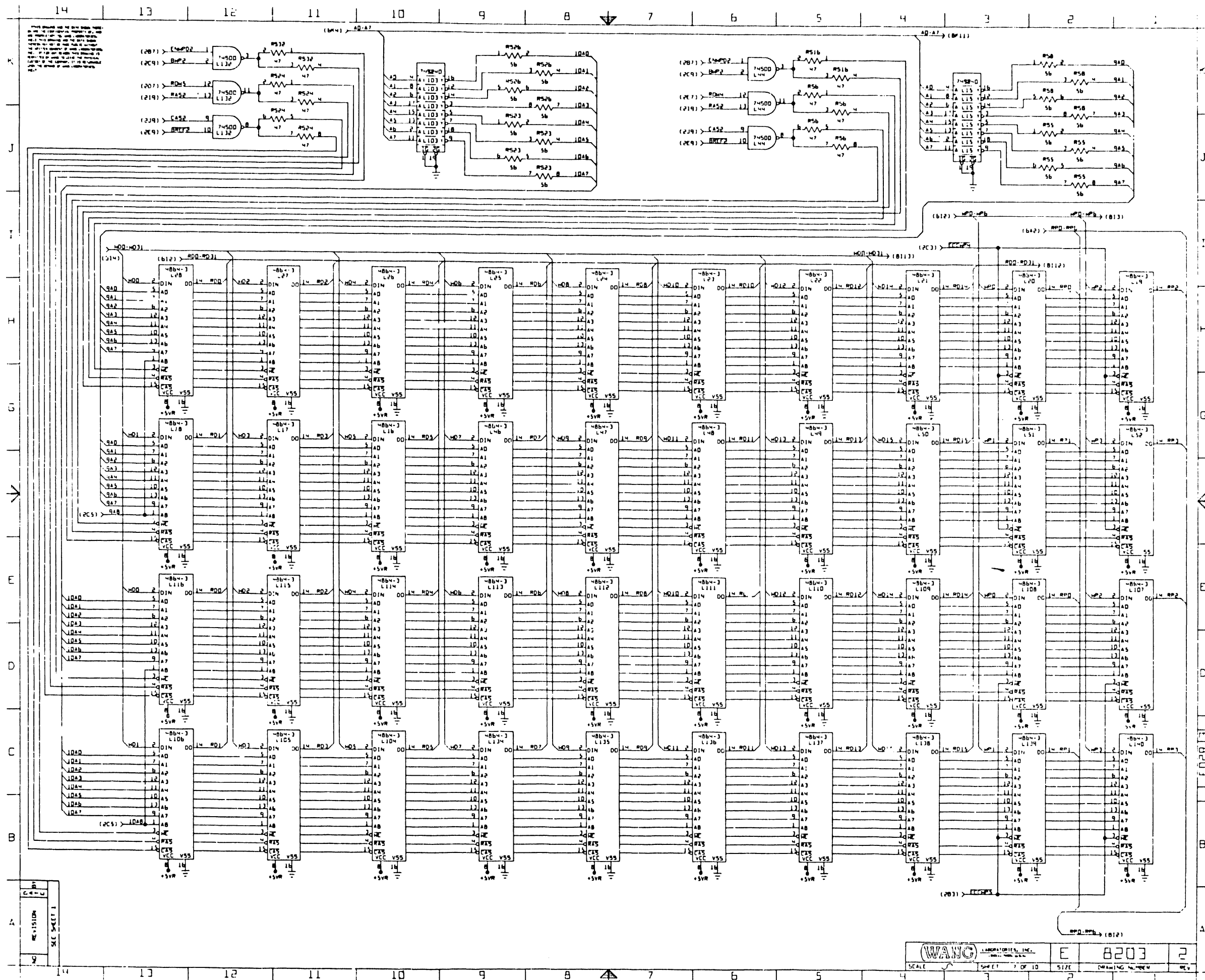


REVISION
SEE SHEET 1



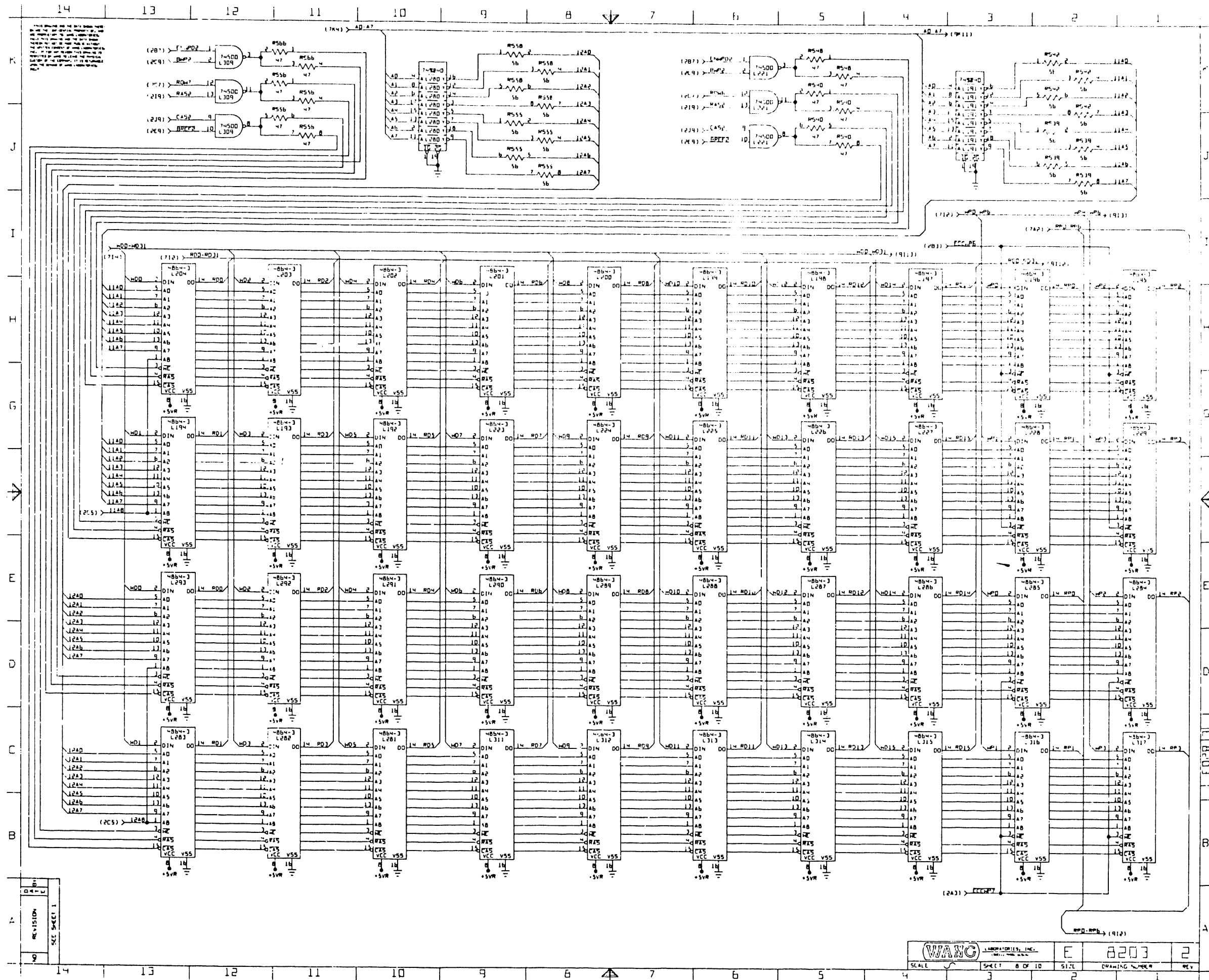
REVISION
SEE SHEET 1

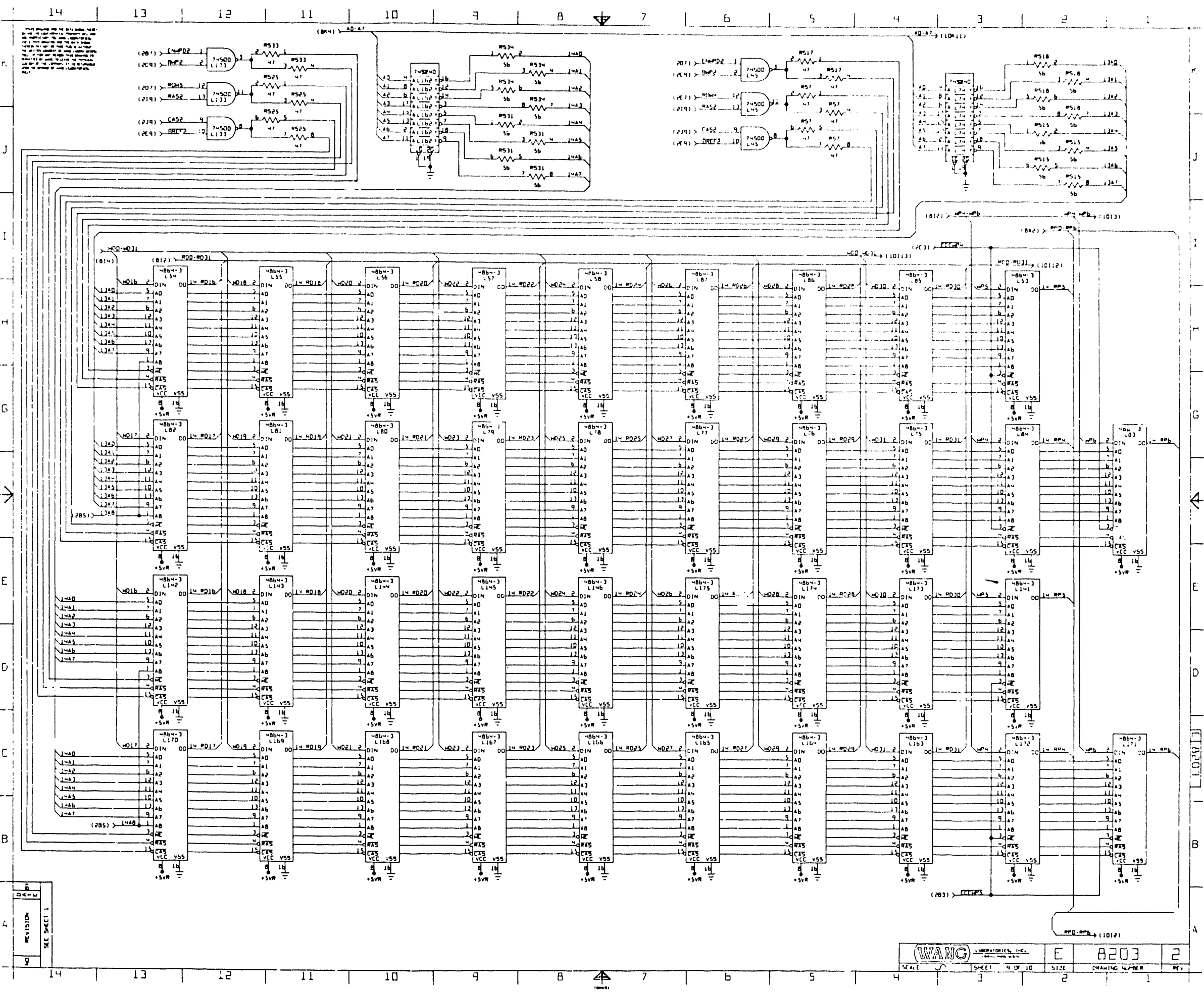
W.A.C. CORPORATION, INC.
E 8203 2
SCALE SHEET 6 OF 10 SIZE DRAWING NUMBER



REV	DESCRIPTION
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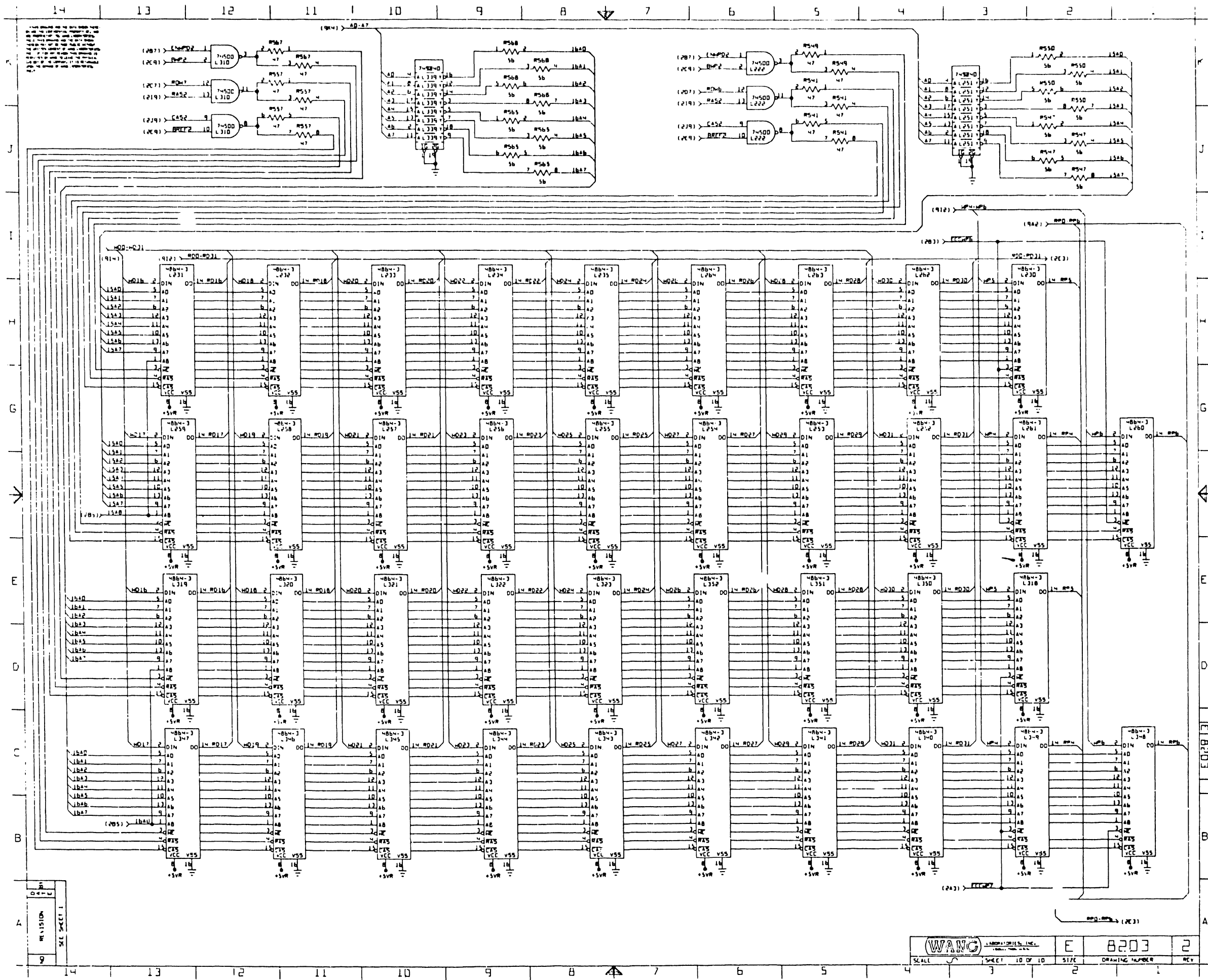
WANG LABORATORIES, INC.		E	8203	2
SCALE	SHEET	OF 10	SIZE	DRAWING NUMBER



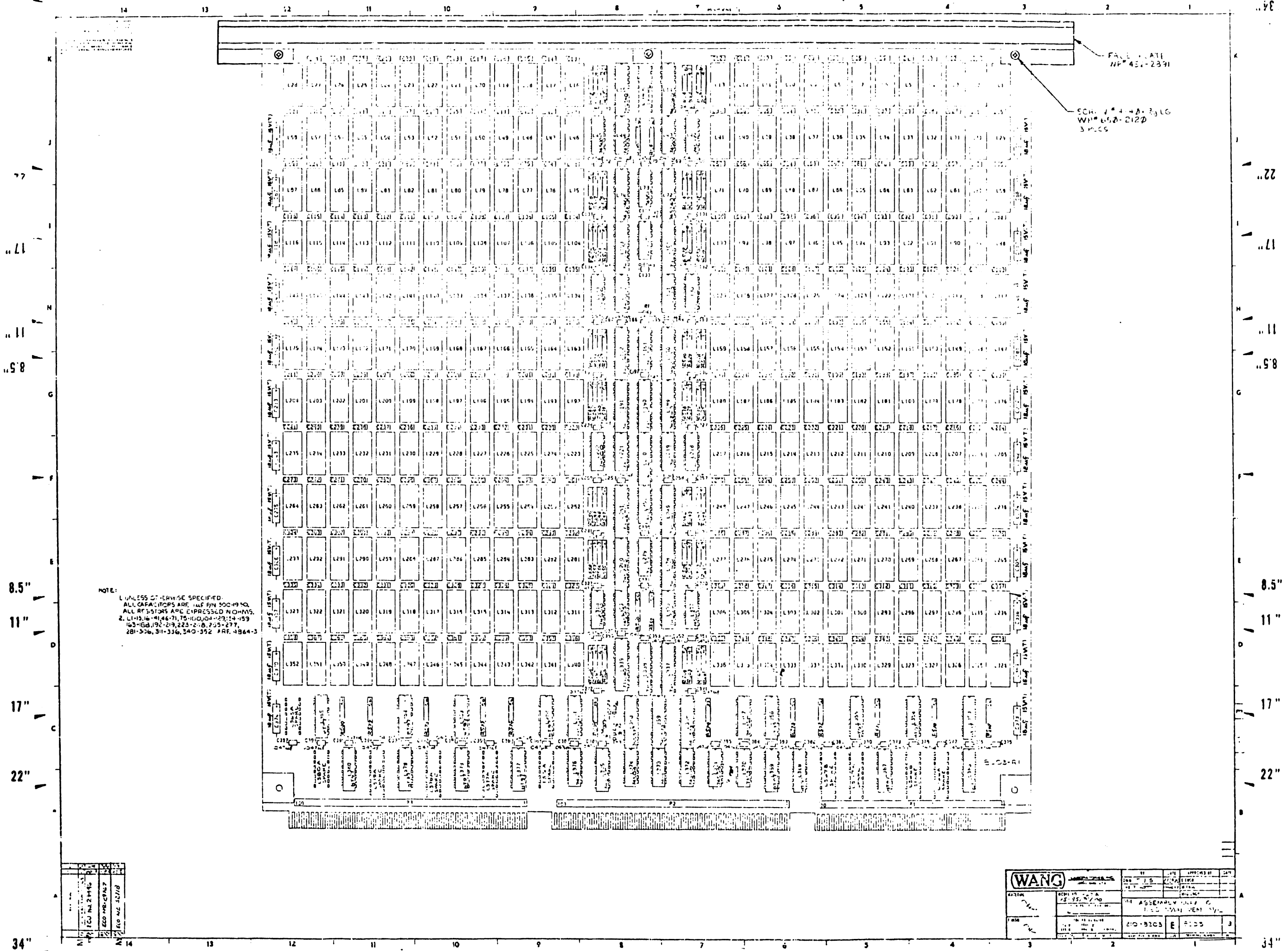


REV	DATE

WANG LABORATORIES, INC.	E	8203	2
SCALE	SHEET 9 OF 10	SIZE	DRAWING NUMBER



REVISION
SHEET 1



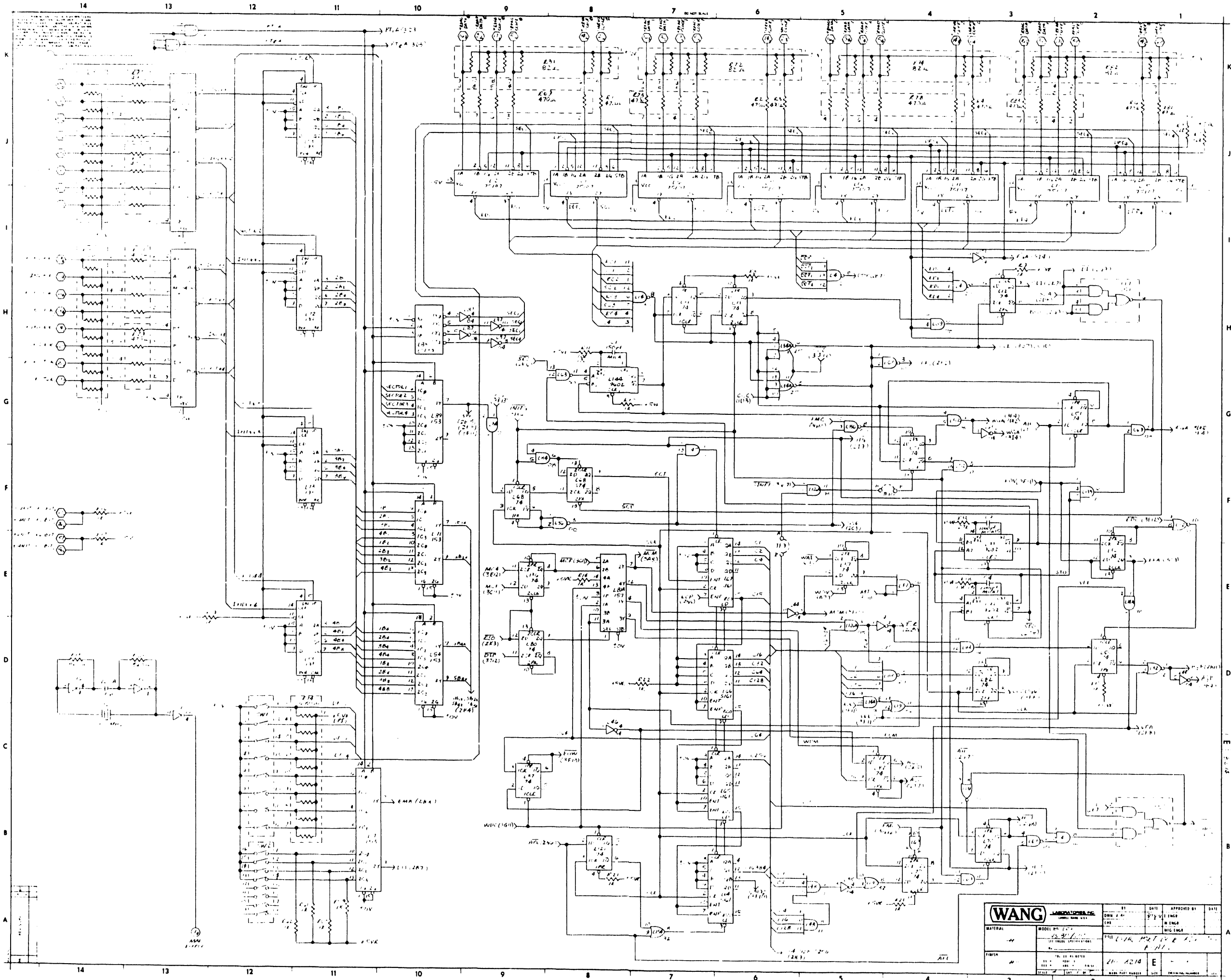
FACE 1 AT1
 NP# 451-2391

SCR. 1 # 4-A-3 LG
 WH# 650-2120
 3 P.C.S.

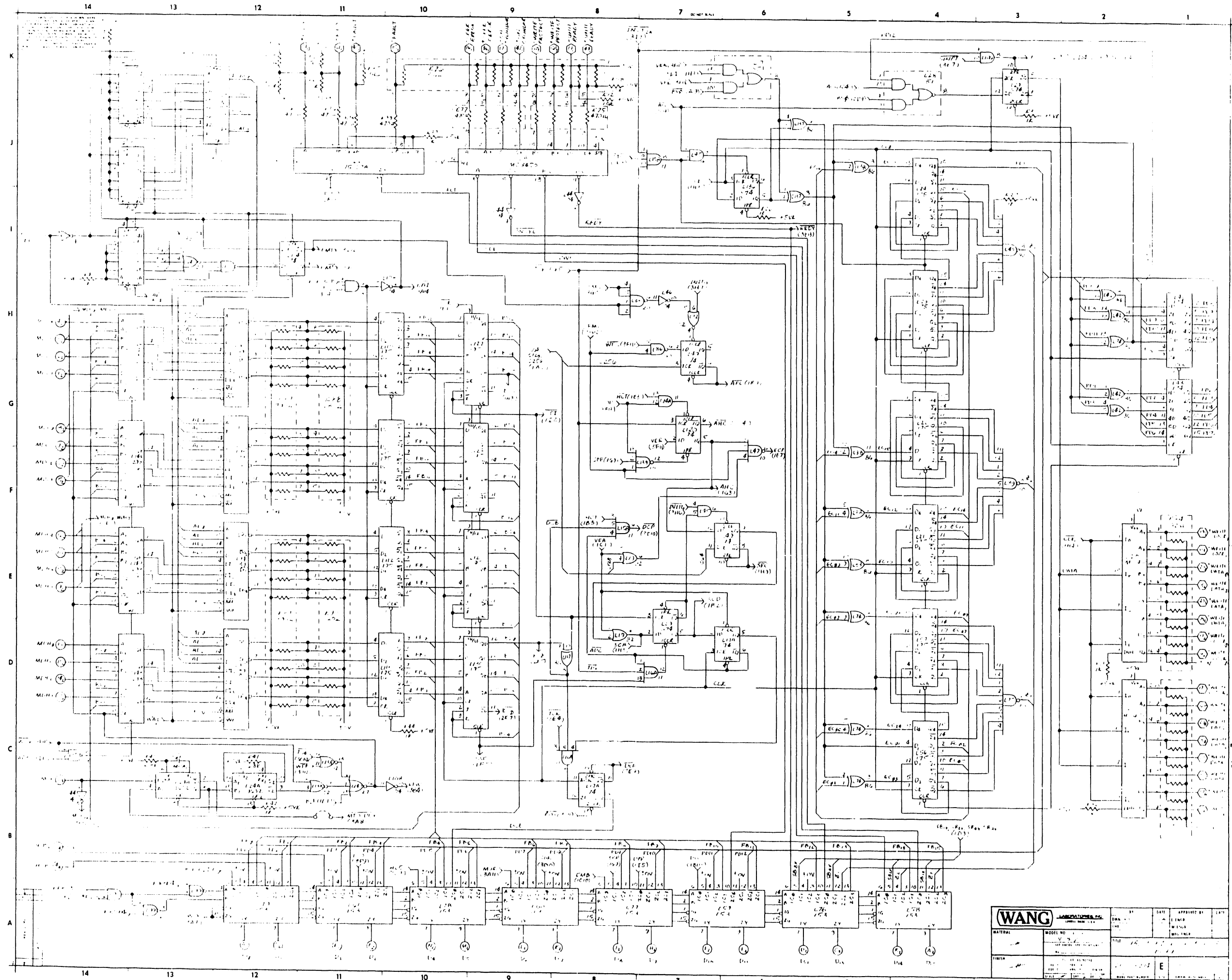
NOTE:
 1. UNLESS OTHERWISE SPECIFIED,
 ALL CAPACITORS ARE 10% P/N 500-49 NO.
 ALL RESISTORS ARE EXPRESSED IN OHMS.
 2. L1-13, 16-41, 46-71, 75-100, 104-129, 134-159
 163-188, 192-219, 223-248, 253-277,
 281-306, 311-336, 340-352 ARE 4864-3

REV	DATE	BY	CHKD
1	10/2/70	WANG	WANG
2	10/15/70	WANG	WANG
3	10/22/70	WANG	WANG
4	11/1/70	WANG	WANG

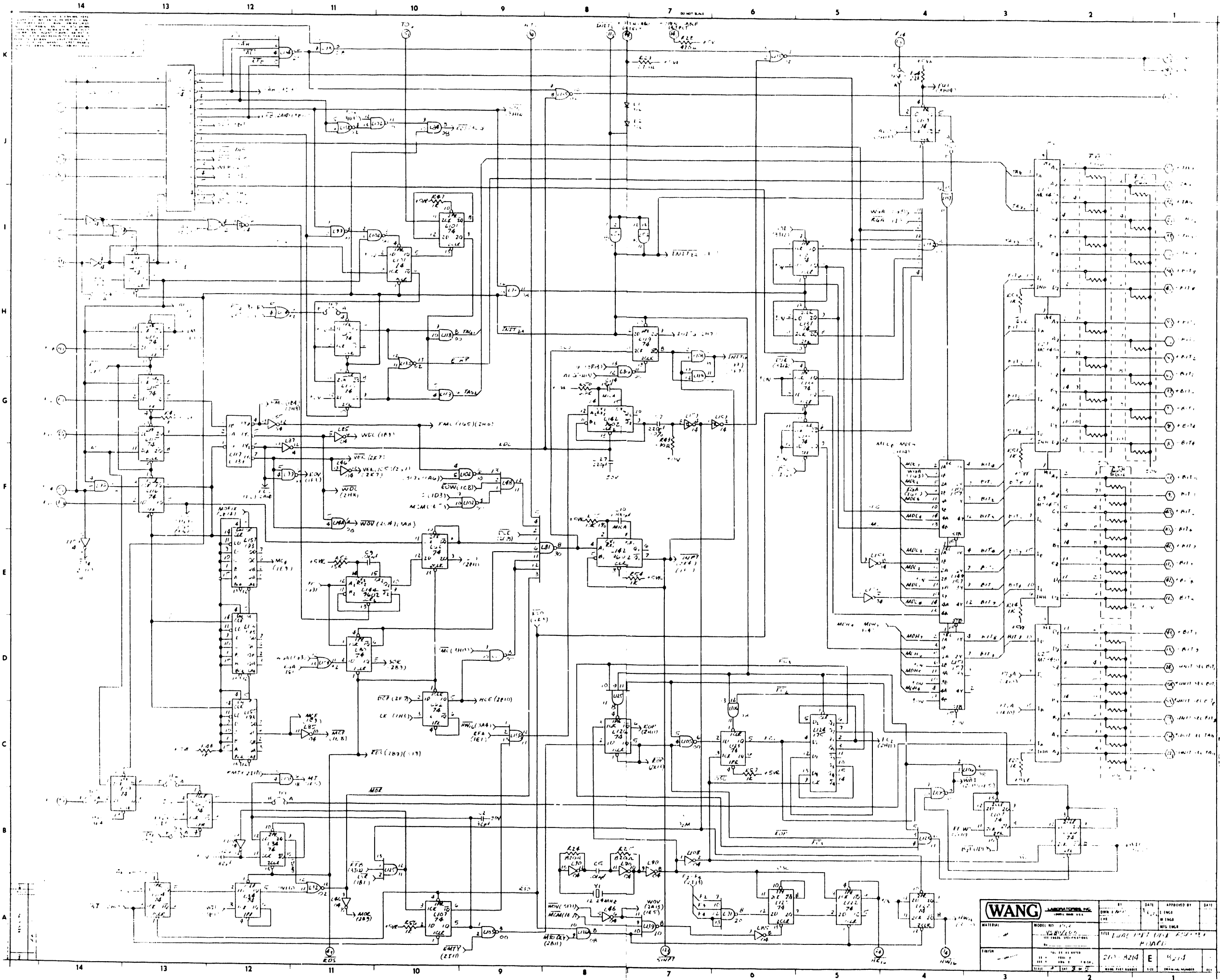
WANG		DATE	BY	CHKD
FORM	REV	10/22/70	WANG	WANG
THE ASSEMBLY UNIT		210-8103	E	3



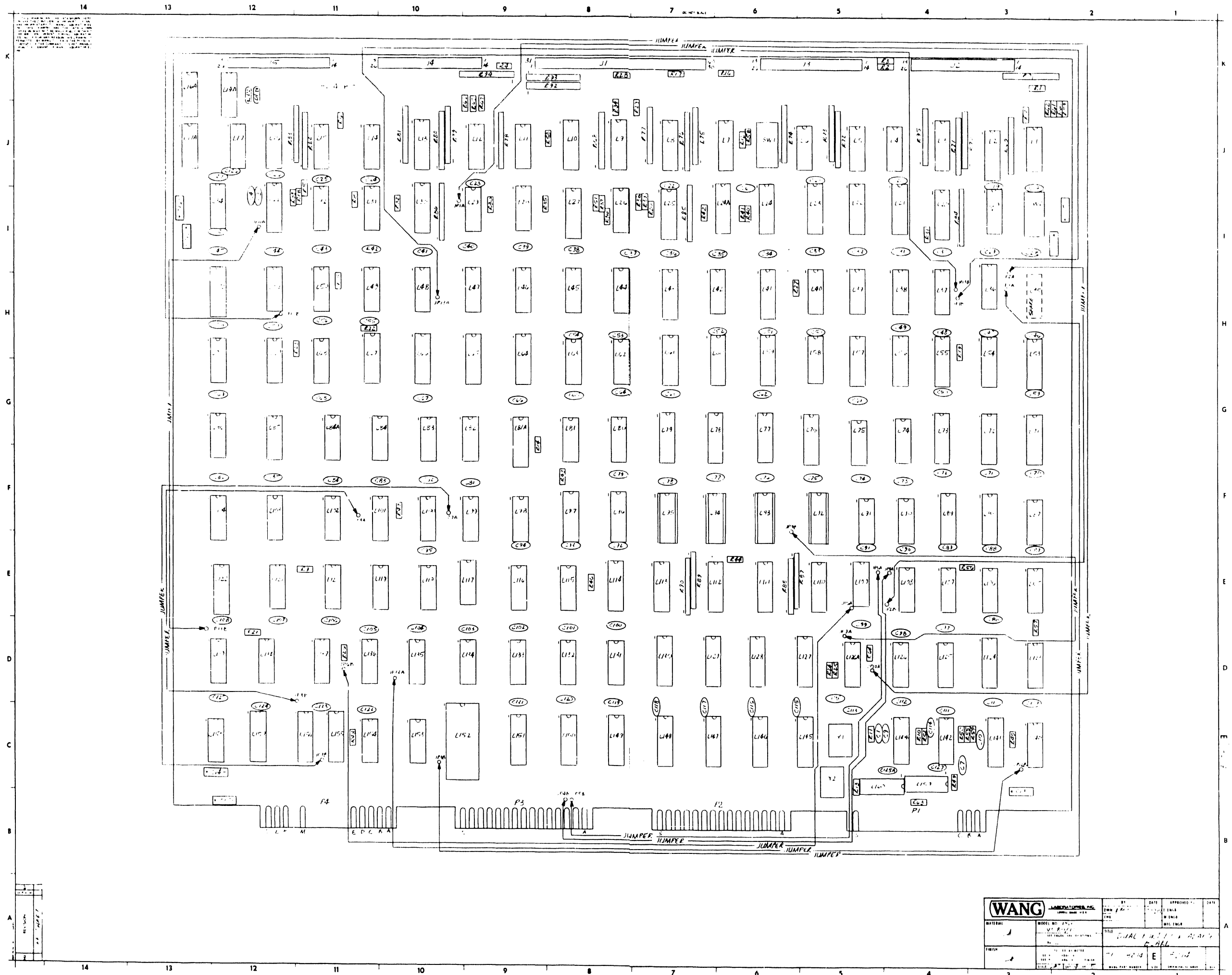
WANG LABORATORIES, INC.		DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200	DWG. NO.	BY	
REV.	REV. 1	REV. 1	BY	
DATE	DATE	DATE	DATE	DATE
11/11/61	11/11/61	11/11/61	11/11/61	11/11/61
11/11/61	11/11/61	11/11/61	11/11/61	11/11/61
11/11/61	11/11/61	11/11/61	11/11/61	11/11/61



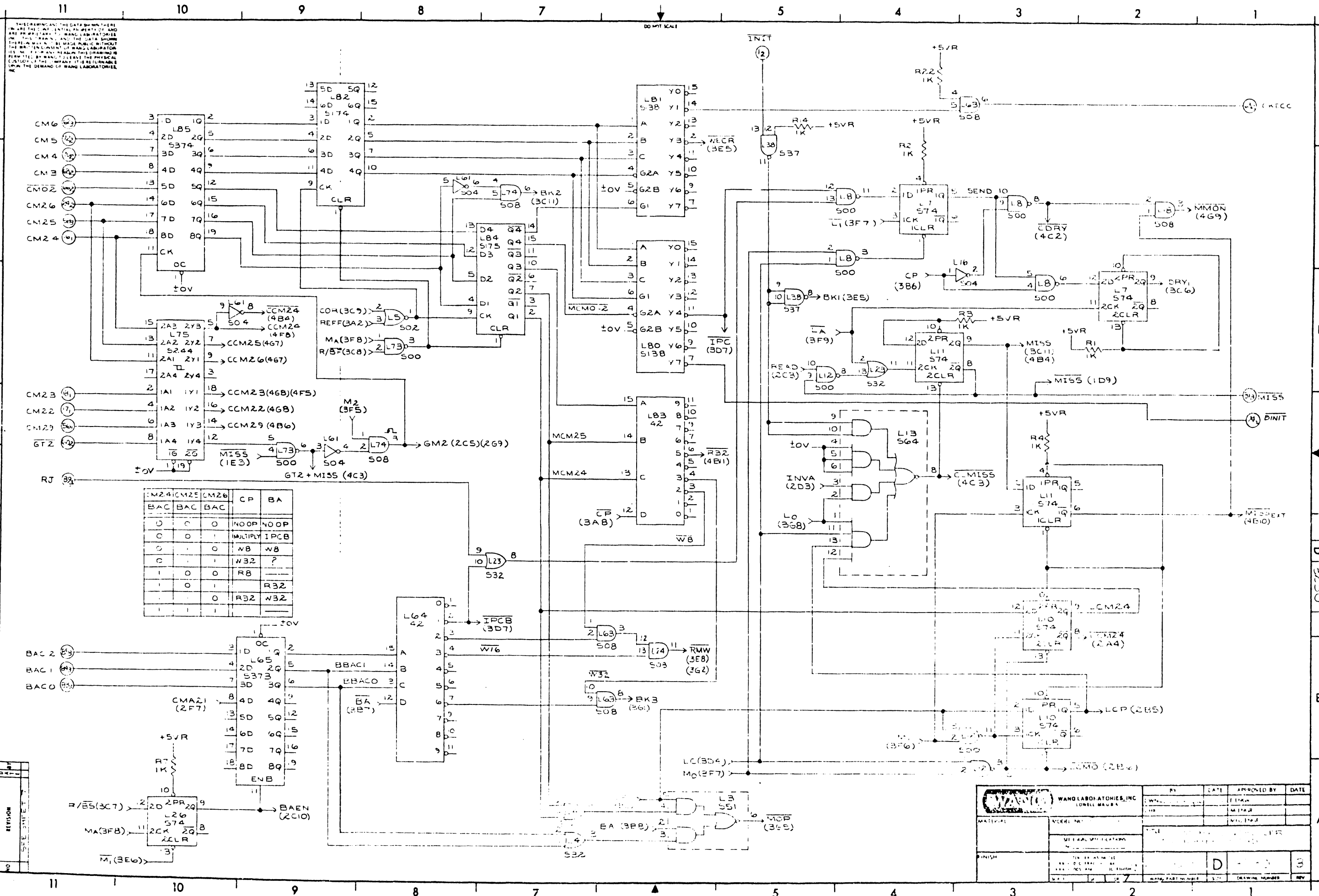
WANG LABORATORIES, INC. <small>(Incorporated in California)</small>		DATE	APPROVED BY	DATE
		MODEL NO. <small>(Specify Model No.)</small>	DRAWN BY <small>(Name)</small>	CHECKED BY <small>(Name)</small>
MATERIAL	TITLE <small>(Specify Title)</small>	DATE <small>(Specify Date)</small>	APPROVED BY <small>(Name)</small>	DATE <small>(Specify Date)</small>
FINISH <small>(Specify Finish)</small>	SCALE <small>(Specify Scale)</small>	DRAWN BY <small>(Name)</small>	CHECKED BY <small>(Name)</small>	DATE <small>(Specify Date)</small>



WANG LABORATORIES, INC.		DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 74-1	DATE	DATE	DATE
FINISH	NO. OF SHEETS	20	AZ14	E
	DATE	1964	10/13	



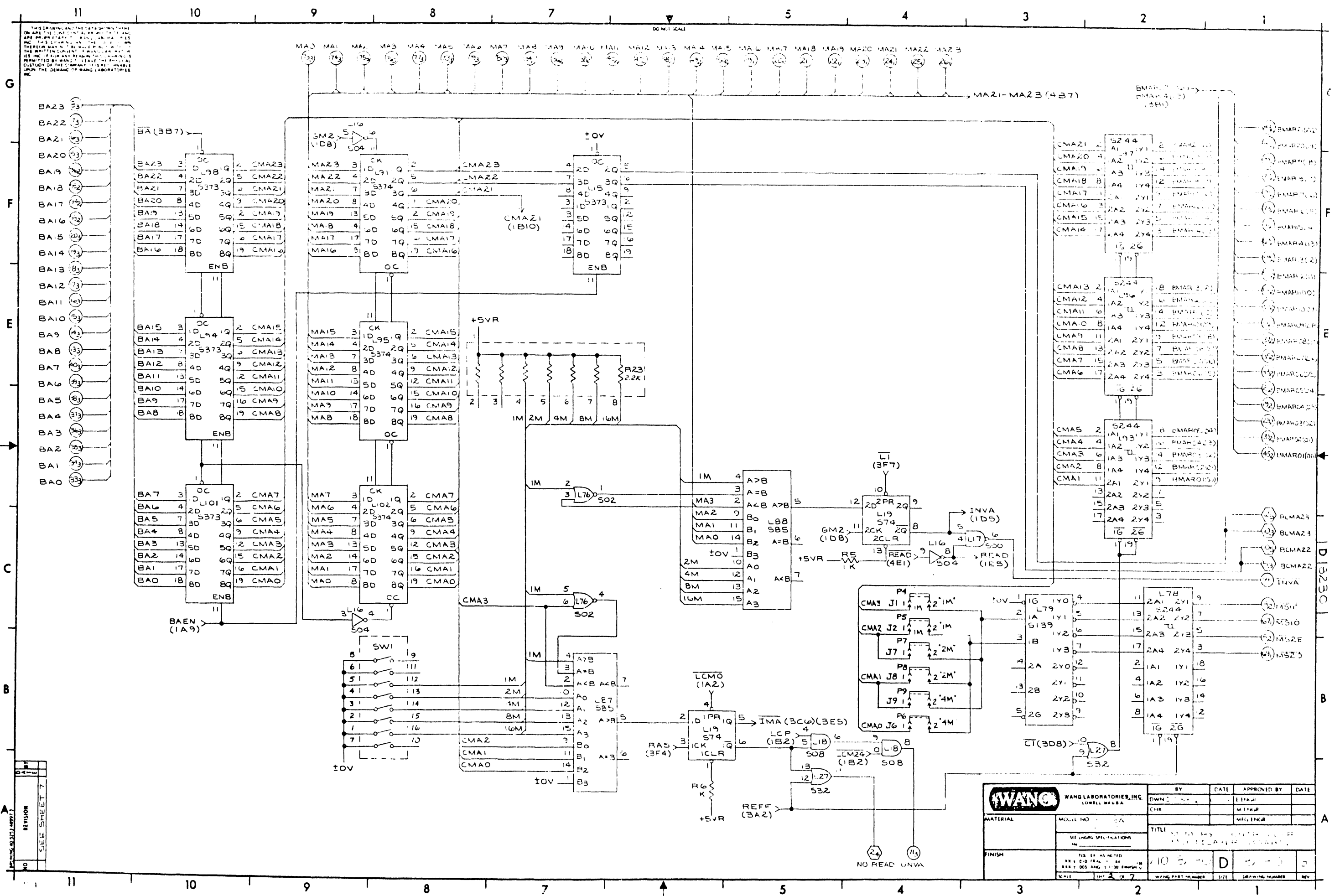
WANG MANUFACTURING CO.		BY	DATE	APPROVED	DATE
MATERIAL	MODEL NO. 7200	CHKD	ENGR.	W. ENGR.	
FINISH	TO BE SHOWN	DATE	ENGR.		
		TITLE	DIAL UNIT & JUMPER		
		NO.	100		
		REV.	E		



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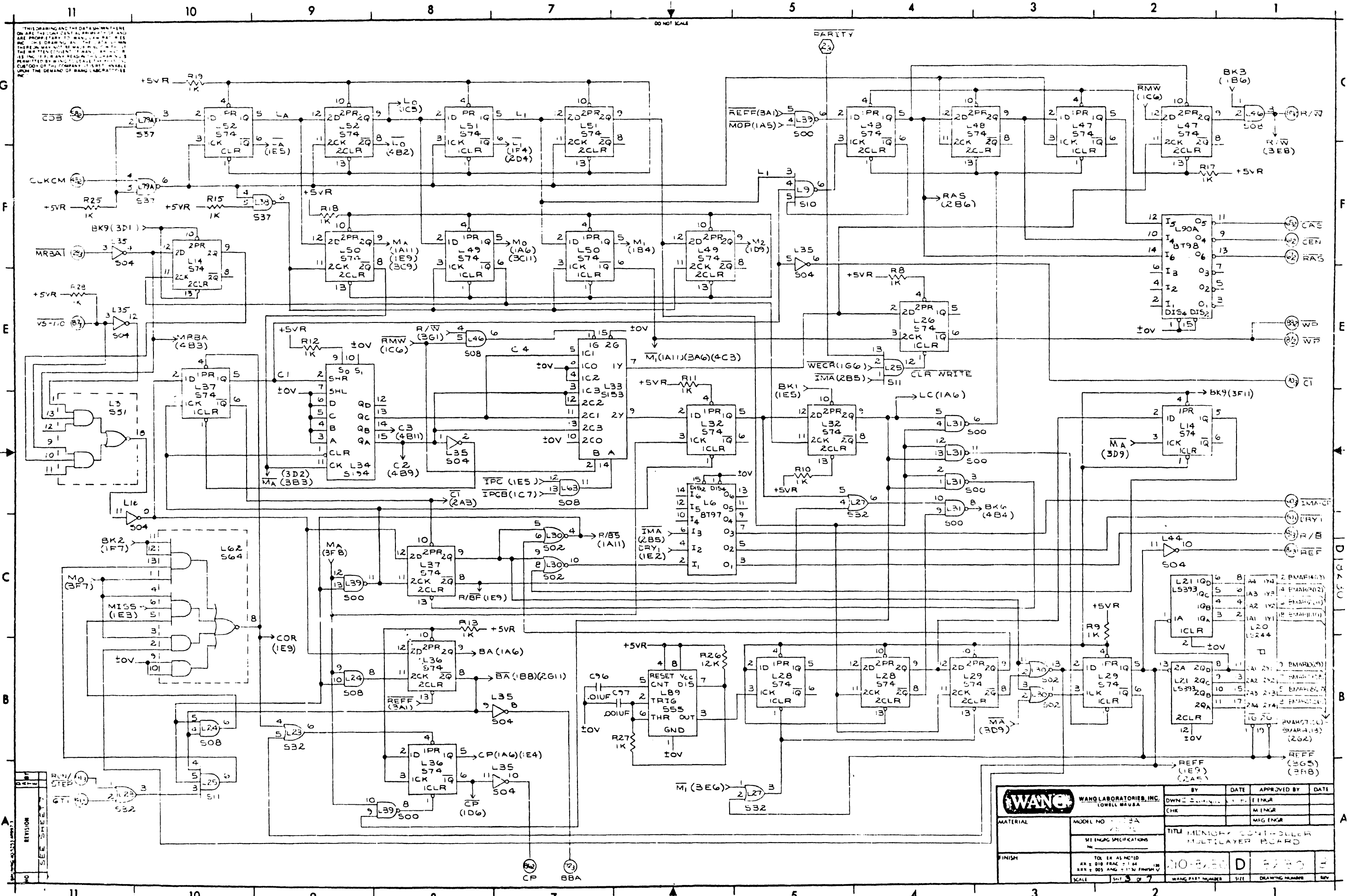
CM24	CM25	CM26	CP	BA
BAC	BAC	BAC	NOOP	NOOP
0	0	0	MULTIPLY	IPCB
0	0	0	WB	WB
0	0	0	W32	?
1	0	0	RB	---
1	0	0	---	R32
1	0	0	---	W32
1	1	1	---	---

WANG LABORATORIES, INC. LOWELL, MASSACHUSETTS		BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____
MATERIAL: _____ FINISH: _____	MODEL NO.: _____ SERIAL NO.: _____	TITLE: _____ DRAWING NO.: _____
REVISION: _____ SEE DATE: _____		D 3



REVISION	SEE SHEET 7
NO.	

WANG WANG LABORATORIES, INC. LOWELL, MASS.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 2200	OWN		ENG'NR	
SEE WANG SPECIFICATIONS		CHK		MFG'NR	
TITLE		TITLE			
FINISH		FINISH			
SCALE		SCALE			
WANG PART NUMBER		WANG PART NUMBER			

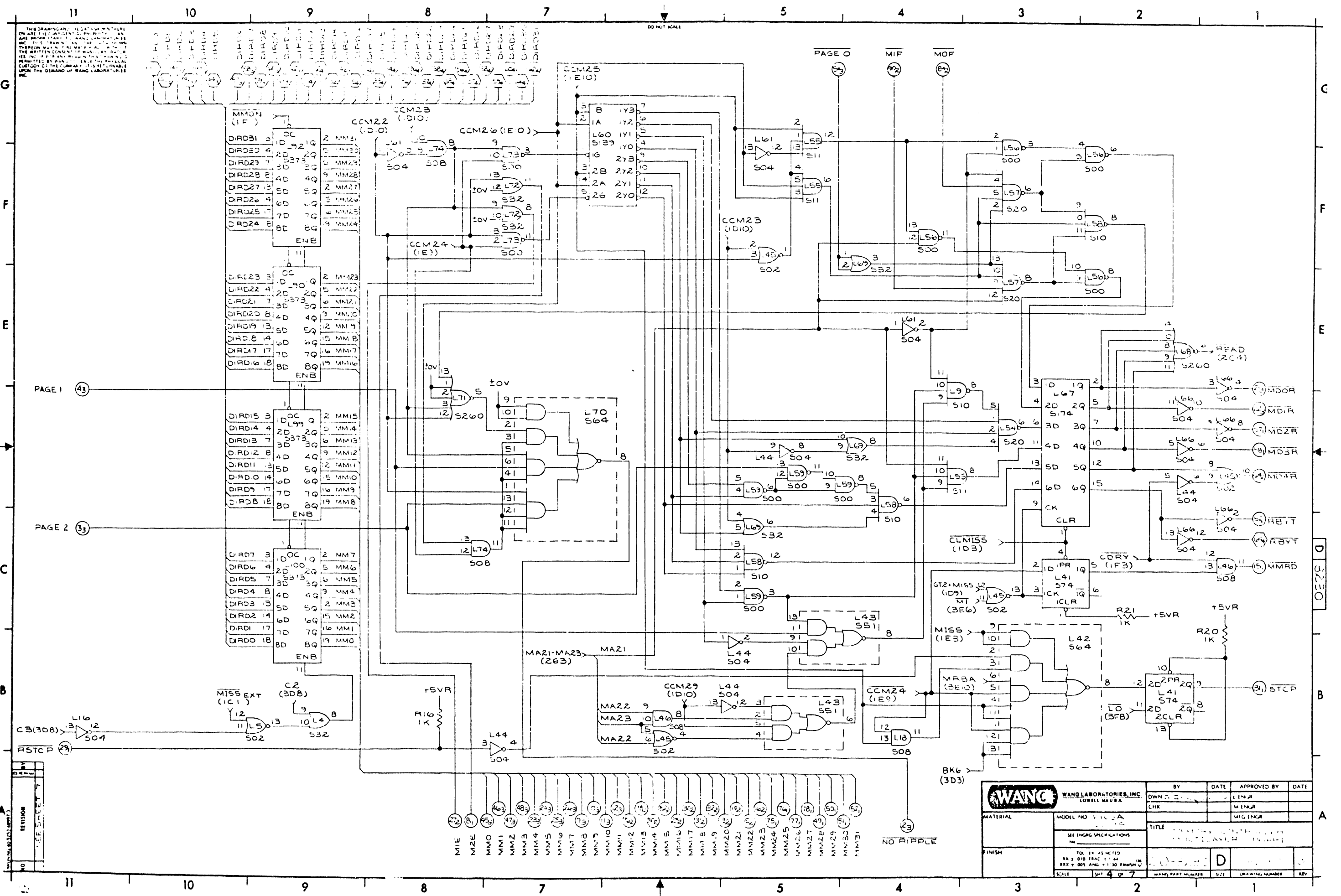


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REVISION	NO.	DATE	BY	APP'D
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WANG WANG LABORATORIES, INC. LOWELL, MASS.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWNE		EMGR	
MODEL NO. 725A		CHK		MENGR	
SI ENGR SPECIFICATIONS		TITLE		MULTI-LAYER CONTROL BOARD	
FINISH		NO. 8-250		D	
TOL. IN AS NOTED		WANG PART NUMBER		SIZE	
DR = 0.10 FRACTION		DATE		DRAWING NUMBER	
DR = 0.05 ANG. DIM. FINISH		REV.		REV.	
SCALE		SHEET		OF	



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PAGE 1 (43)

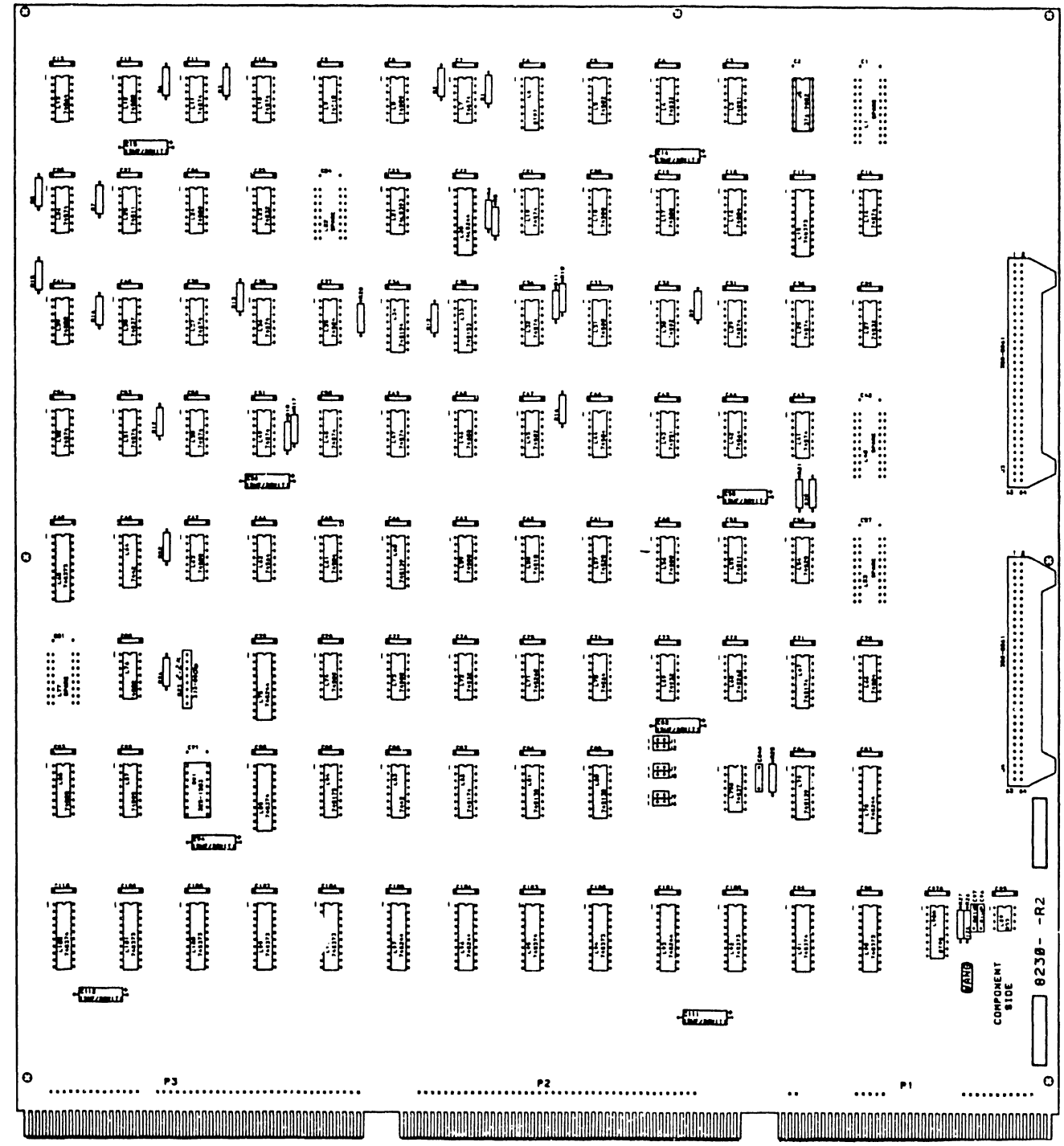
PAGE 2 (33)

REV	REVISION
1	SEE SHEET 7

WANG WANG LABORATORIES, INC. LOWELL MAUSA		BY	DATE	APPROVED BY	DATE
MATERIAL		CHK			
MODEL NO. V100A		TITLE			
SEE ENG'G SPECIFICATIONS		SCALE		REV	
FINISH		SCALE		REV	

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DO NOT SCALE



WANG
COMPONENT SIDE
8230 - R2

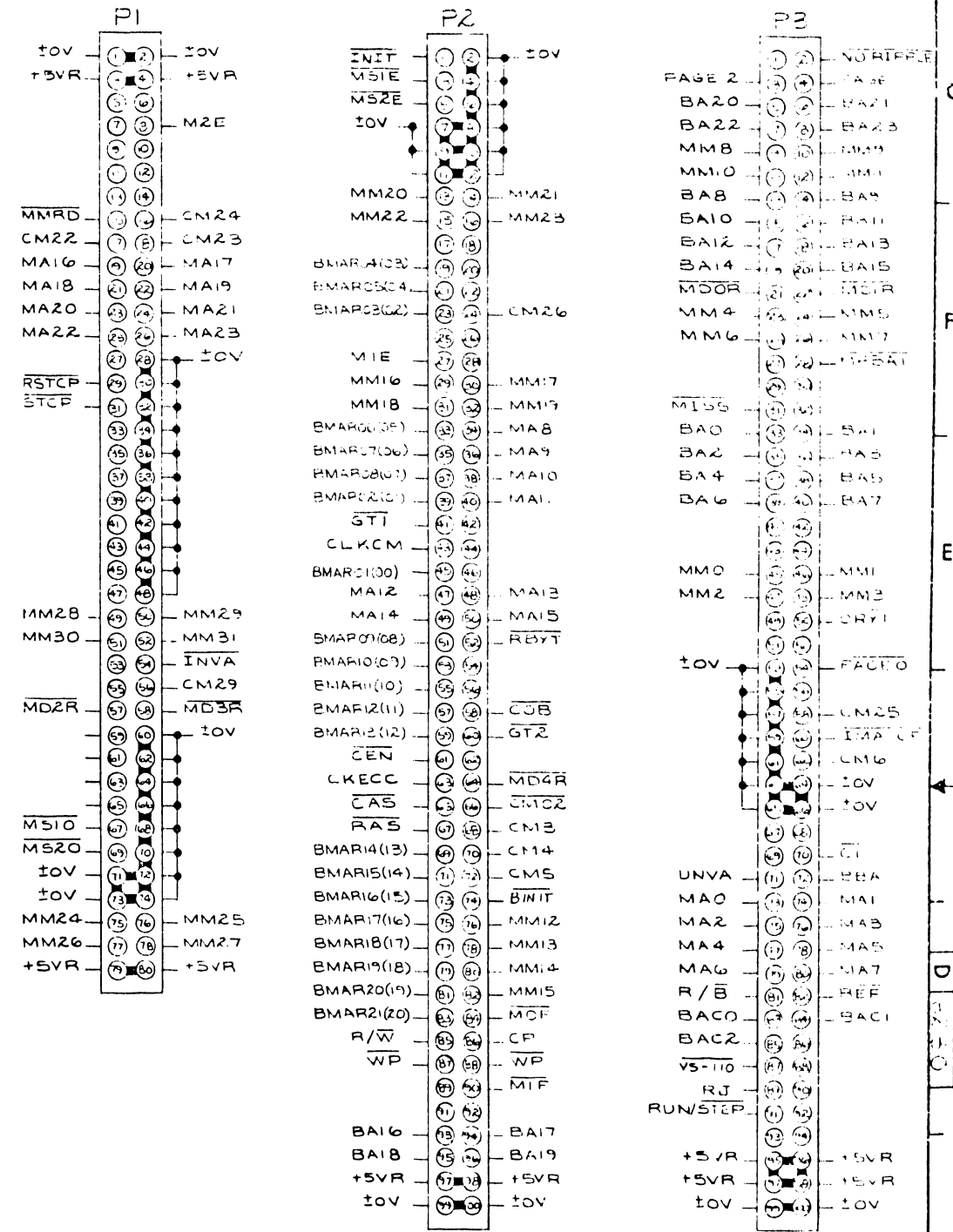
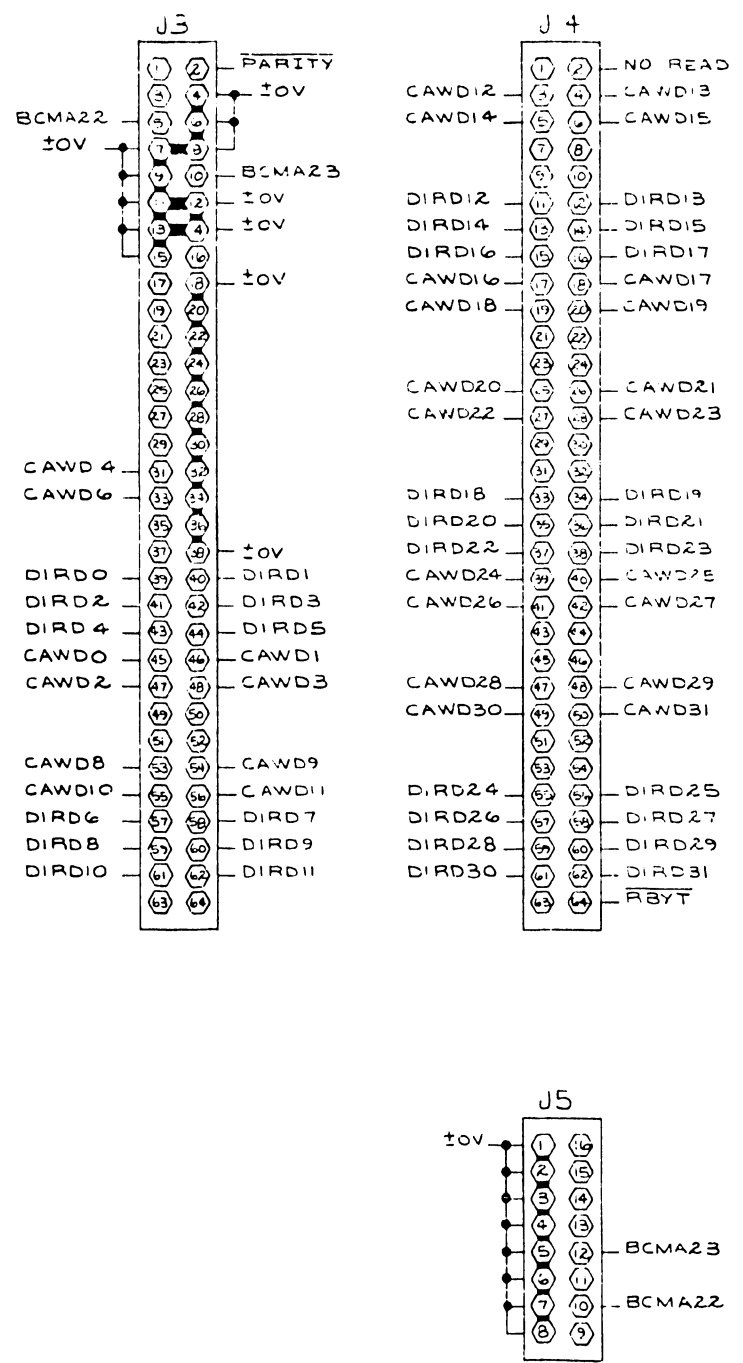
NO	REVISION	DATE	BY
	SNE SHEET 7		

WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN K THOMPSON	7-9-62	E ENGR	
		FHE		M ENGR	
				MFG ENGR	
MATERIAL	MODEL NO P105A VS-95 SEE ENGR SPECIFICATIONS	TITLE MEMORY CONTROLLER MULTILAYER BOARD			
FINISH	TOL AS NOTED 2% ± FRAC ± 10% ± RES ± FINISH	210-8230	D	8230	3
SCALE	1/8" = 1" OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	SHEET

D 8230

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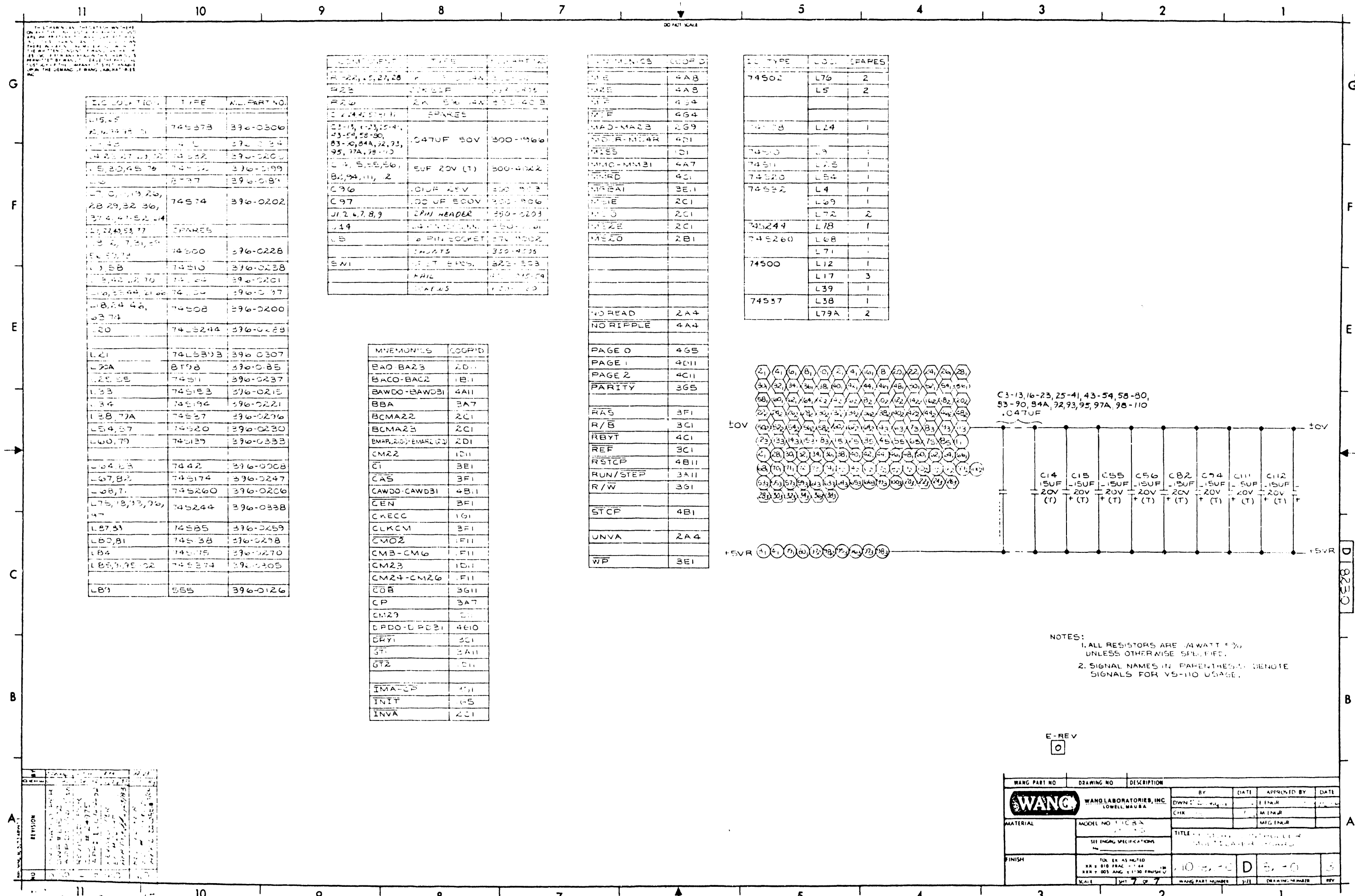
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WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
		WANG LABORATORIES, INC. LOWELL, MA 01854	DWN		EMGR	
MATERIAL		MODEL NO. 725A	CHK		MEMGR	
FINISH		SEE ENG SPECIFICATIONS	TITLE: CONTROL BOARD			
SCALE		1:1	WANG PART NUMBER			
DATE		11-11-77	DRAWING NUMBER			
REV		1	REV			



1. EXAMINE THIS DRAWING FOR THE LOCATION OF ALL DIMENSIONS, HOLE DIA., HOLE SPACING, AND COMPONENT LOCATION. 2. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 3. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 4. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 5. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 6. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 7. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 8. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 9. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 10. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 11. THE DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

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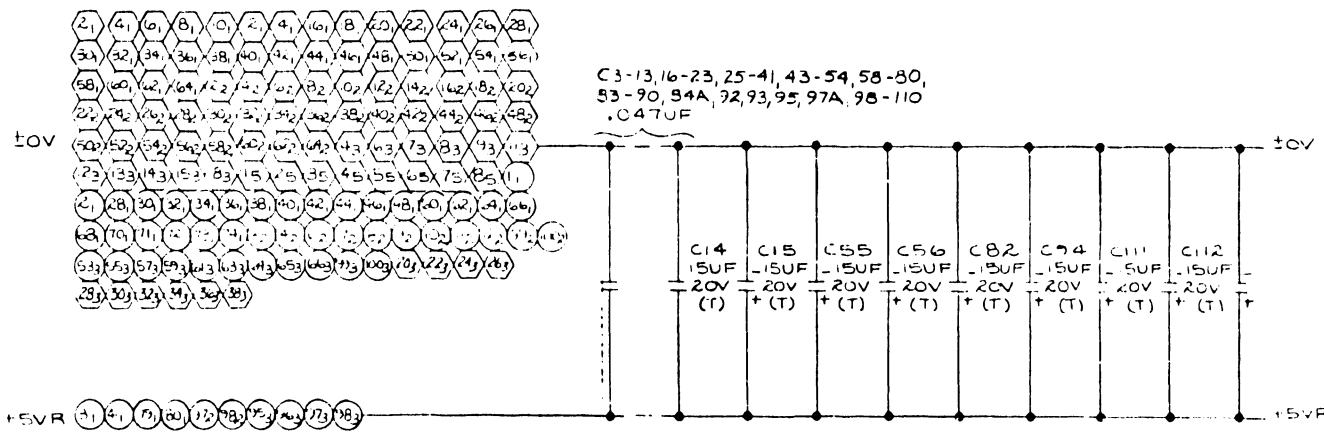
LOC. LOCATION	TYPE	WANG PART NO.
L15,45		
L21,45,47,51	745573	396-0306
L33	4C	396-0334
L42,51,53,55,57	745572	396-0205
L53,60,65,76	745571	396-0199
L60	745577	396-0181
L70,71,73,75,78, 28,29,32,36, 37,41,43,52,54	745574	396-0202
L81,24,53,77	SPARES	
L82,7,31,56		
L83,50,72	745500	396-0228
L85,58	745510	396-0238
L86,82,82,70	745524	396-0201
L87,88,84,21,66	745520	396-0197
L88,84,86,	745508	396-0200
L89,71		
L90	7455244	396-0228
L91		
L92		
L93		
L94		
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L118		
L119		
L120		
L121	7455393	396-0307
L122A	BT98	396-0185
L123,55	745511	396-0237
L133	745513	396-0215
L134	745514	396-0221
L138,77A	745517	396-0276
L154,57	745520	396-0230
L160,79	745529	396-0333
L164,63	74442	396-0308
L167,82	745174	396-0247
L168,71	745260	396-0206
L175,18,33,36, 47	745244	396-0338
L187,51	745585	396-0259
L190,81	745538	396-0298
L194	745575	396-0270
L195,3,35,62	745574	396-0305
L199	555	396-0126

COMPONENT	TYPE	WANG PART NO.
R22,25,27,28	2W 500 OHM 1/4W	44A
R23	2W 500 OHM 1/4W	44B
R26	2W 500 OHM 1/4W	44C
C24,51,51,11	SPARES	
C3-13,16-23,25-41, 43-54,58-80, 83-90,84A,92,93, 95,97A,98-110	.047UF 50V	300-1966
C41,5,55,56,	50V 20V (T)	300-4922
C82,94,111,2		
C96	.01UF 25V	300-9023
C97	.001UF 500V	300-9006
J12,6,7,8,9	PIN HEADER	250-6203
J14	4 PIN SOCKET	250-1001
U5	6 PIN SOCKET	250-1002
	CONCATS	330-4036
SW1	1/2 T. SW. 6P.	325-853
	FRIL	375-1059
	SPARES	100-100

MNEMONICS	COORD
BA0-BA23	2D11
BAC0-BAC2	1B11
BAW0-BAW0B1	4A11
BBA	3A7
BCMA22	2C11
BCMA23	2C11
BMAP,20V;EMARL	2D11
CM22	1D11
C1	3E11
CAS	3F11
CAW00-CAW0B1	4B11
CEN	3F11
CNECC	1G11
CLKCM	3F11
CM02	1F11
CM3-CM6	1F11
CM23	1D11
CM24-CM26	1F11
COB	3G11
CP	3A7
CM29	1C11
DP00-LP0B1	4E10
DRY1	2C11
ST	3A11
GT2	1C11
IMA-CP	1G11
INIT	6S
INVA	2C11
NOREAD	2A4
NORIPPLE	4A4
PAGE 0	4G5
PAGE 1	4D11
PAGE 2	4C11
PARITY	3G5
RAS	3F11
R/B	3C11
RBYT	4C11
REF	3C11
RSTCP	4B11
RUN/STEP	3A11
R/W	3G11
STCP	4B11
UNVA	2A4
WP	3E11

LOC. TYPE	LOC.	SPARES
74502	L76	2
	L5	2
74578	L24	1
74570	L9	1
74511	L25	1
74520	L54	1
74532	L4	1
	L59	1
	L72	2
745244	L18	1
745260	L68	1
	L71	1
74500	L12	1
	L17	3
	L39	1
74537	L38	1
	L79A	2

MNEMONICS	COORD
BA0-BA23	2D11
BAC0-BAC2	1B11
BAW0-BAW0B1	4A11
BBA	3A7
BCMA22	2C11
BCMA23	2C11
BMAP,20V;EMARL	2D11
CM22	1D11
C1	3E11
CAS	3F11
CAW00-CAW0B1	4B11
CEN	3F11
CNECC	1G11
CLKCM	3F11
CM02	1F11
CM3-CM6	1F11
CM23	1D11
CM24-CM26	1F11
COB	3G11
CP	3A7
CM29	1C11
DP00-LP0B1	4E10
DRY1	2C11
ST	3A11
GT2	1C11
IMA-CP	1G11
INIT	6S
INVA	2C11

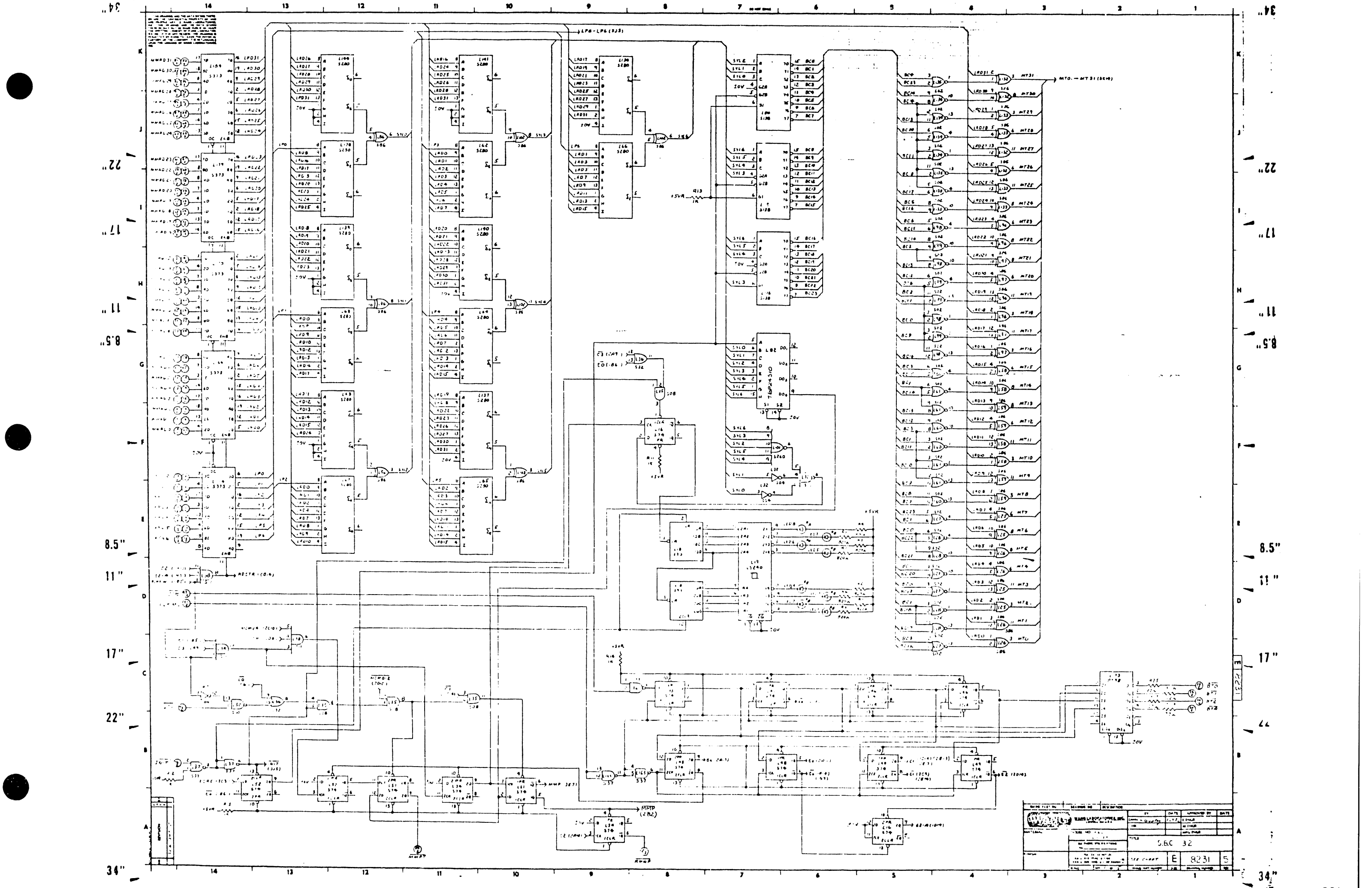


NOTES:
1. ALL RESISTORS ARE 1/4 WATT 5% UNLESS OTHERWISE SPECIFIED.
2. SIGNAL NAMES IN PARENTHESES DENOTE SIGNALS FOR V5-110 USAGE.

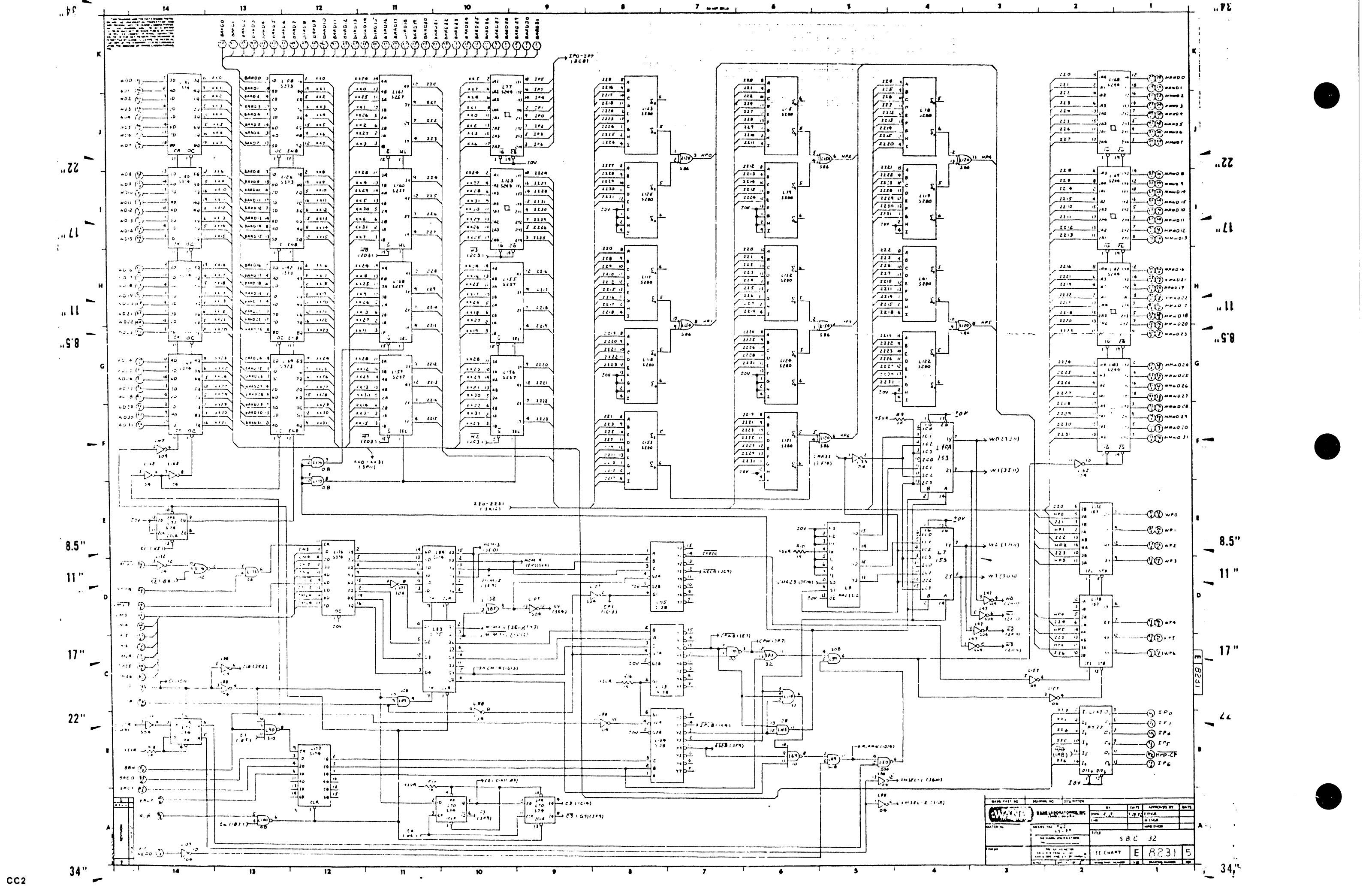
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WANG PART NO.		DRAWING NO.		DESCRIPTION			
WANG		WANG LABORATORIES, INC. LOWELL, MASS.		BY	DATE	APPROVED BY	DATE
MATERIAL		MODEL NO. TIC 5A		DW		EM	
FINISH		SII ENG'G SPECIFICATIONS		CHK		AM	
		TOL. ER AS NOTED		TITLE			
		SER. 510 FRAC. 1-44		10-5-70			
		SER. 505 ANG. 1-1-30 FINISH V		D 5-10			
SCALE		SHT 7 of 7		WANG PART NUMBER			
				REV			

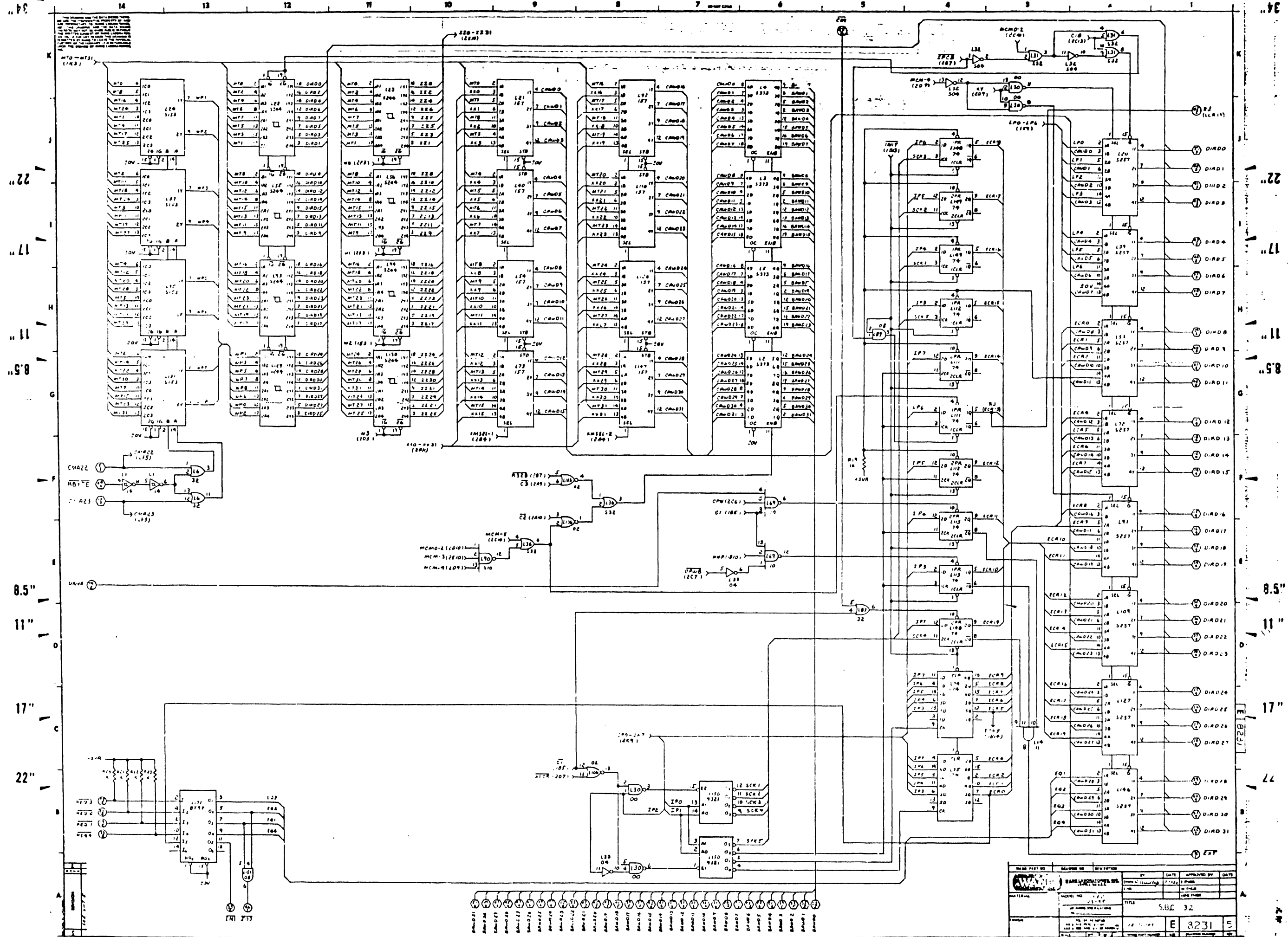


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1977
TITLE		56C 32	
DRAWN BY		...	
CHECKED BY		...	
DATE		...	
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BY		...	
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DATE	BY	APPROVED BY	DATE
10/1/68	J. J. [Signature]	[Signature]	
10/1/68	[Signature]	[Signature]	
10/1/68	[Signature]	[Signature]	
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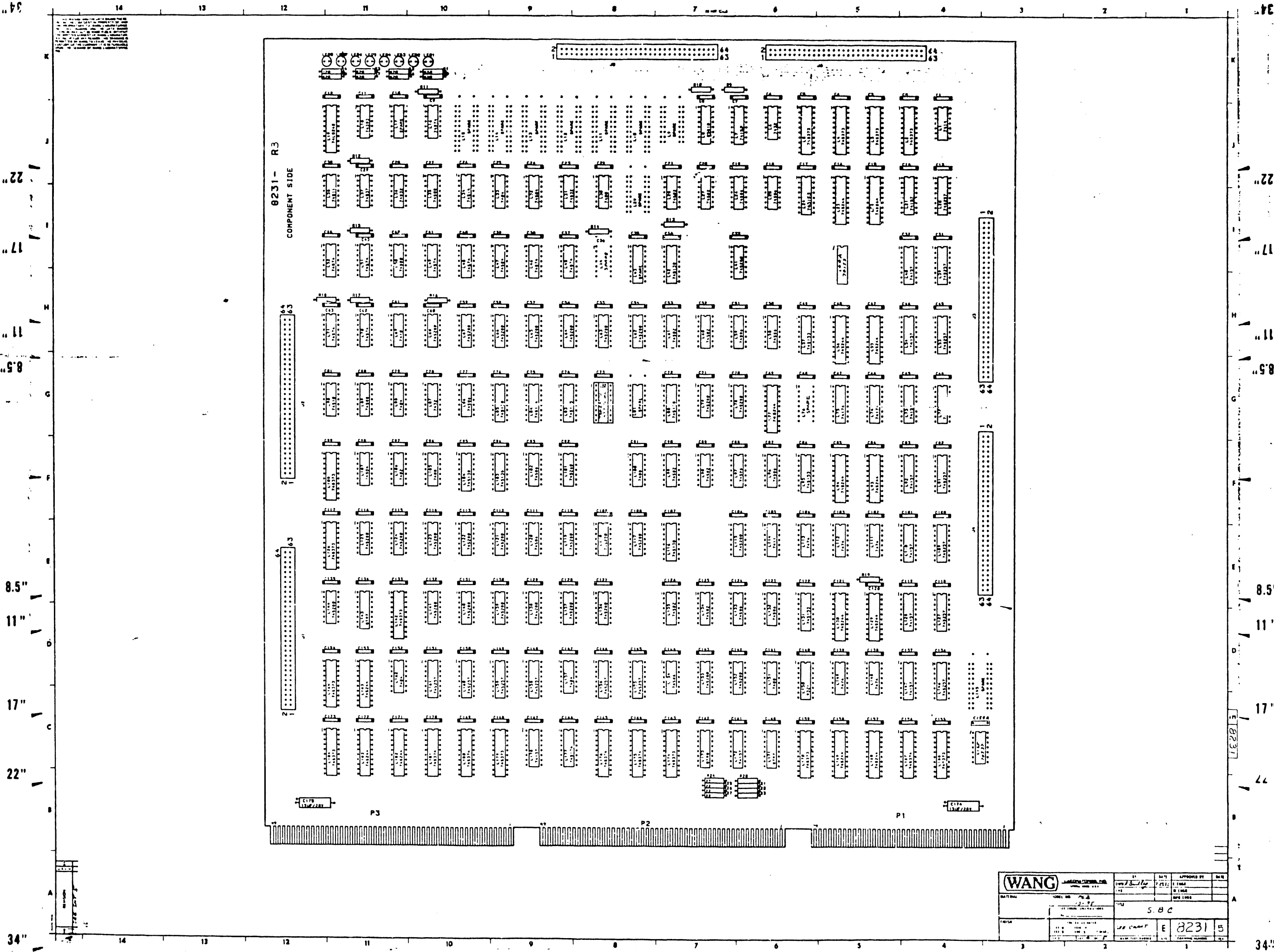
TITLE: SBC 32
 CHART: E 8231 5
 SHEET NO: 1 OF 1



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2			REVISION
3			REVISION
4			REVISION
5			REVISION

TITLE: SBC 32
 E 8231 5
 DRAWN BY: [blank]
 CHECKED BY: [blank]

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8231- R3
COMPONENT SIDE

WANG		DATE	APPROVED BY	REV
MODEL NO. 8231		1/12/68	S. B. C.	5
TITLE		8231 5		
DRAWN BY		S. B. C.		
CHECKED BY		S. B. C.		
DATE		1/12/68		

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

Table with columns for component type, part number, and location. Includes entries for resistors (R1-R14), capacitors (C1-C14), and integrated circuits (U1-U14).

Table with columns for component type, location, and value. Lists various electronic components and their specifications.

Table with columns for component type, location, and value. Lists various electronic components and their specifications.

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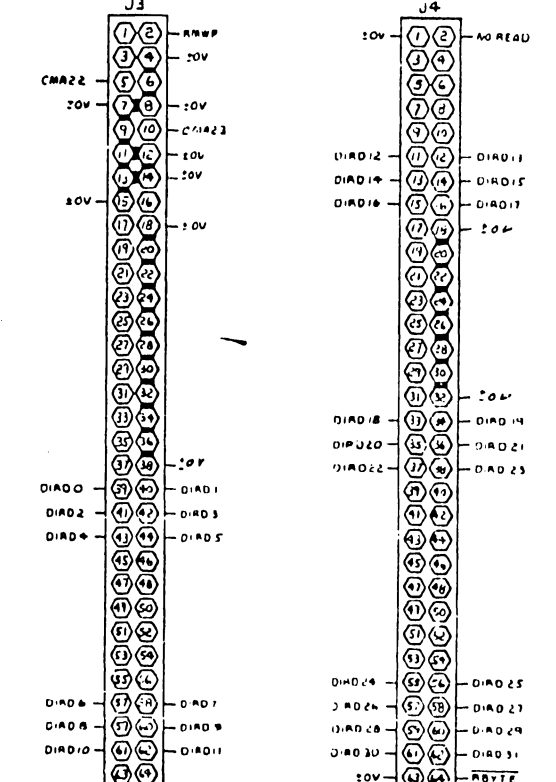
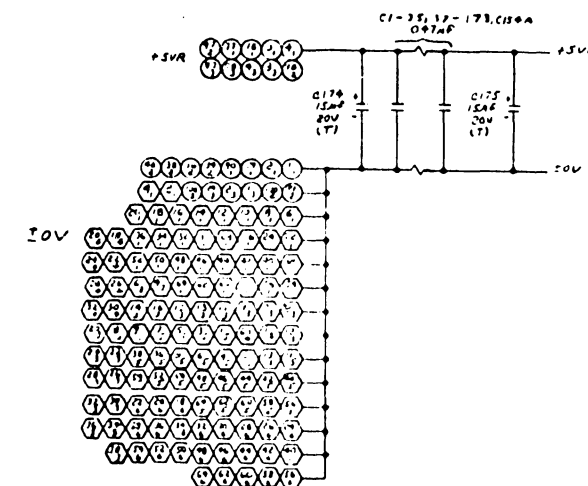
Table with columns for component type, location, and value. Lists various electronic components and their specifications.

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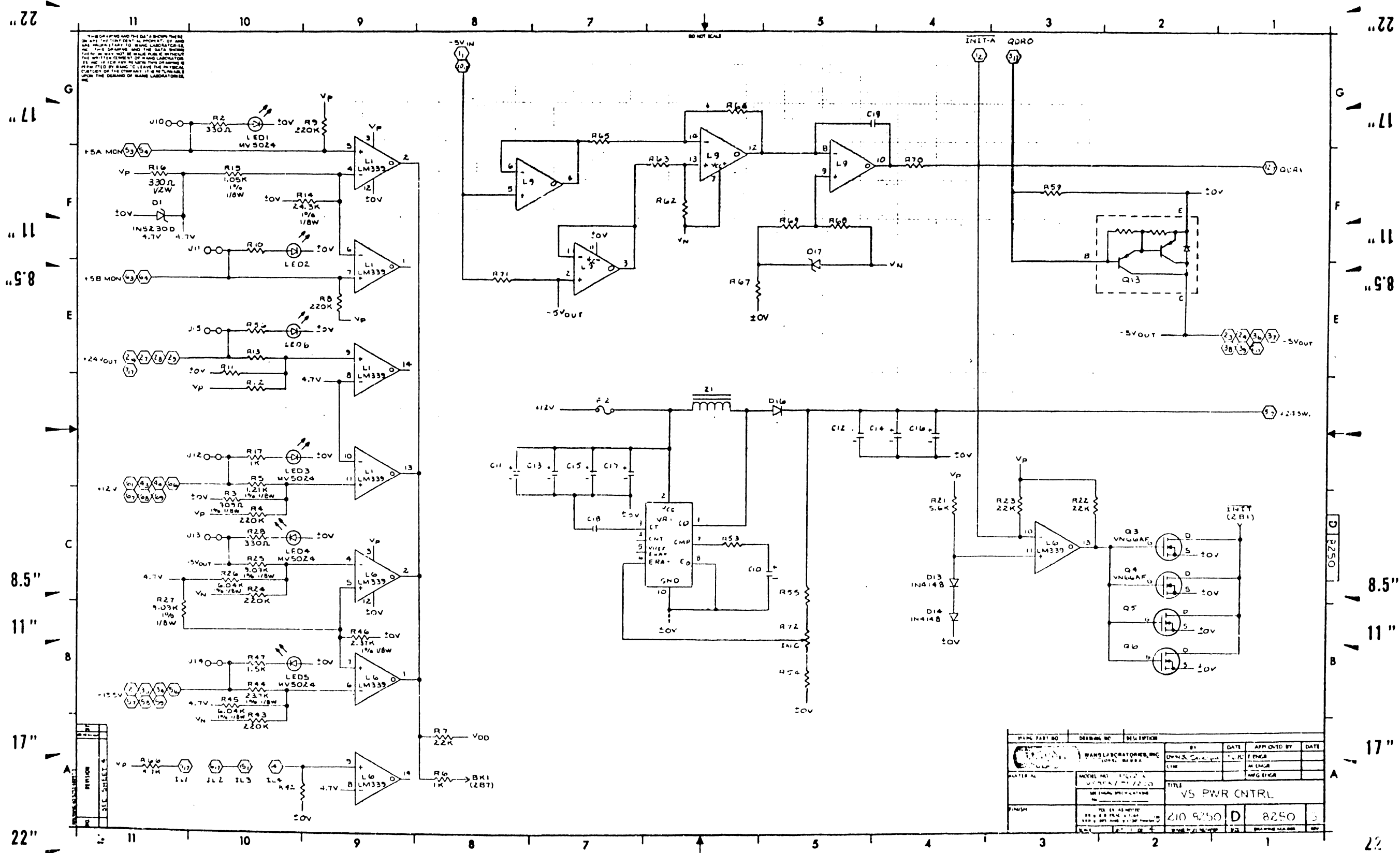
Table with columns for component type, location, and value. Lists various electronic components and their specifications.

Table with columns for component type, location, and value. Lists various electronic components and their specifications.



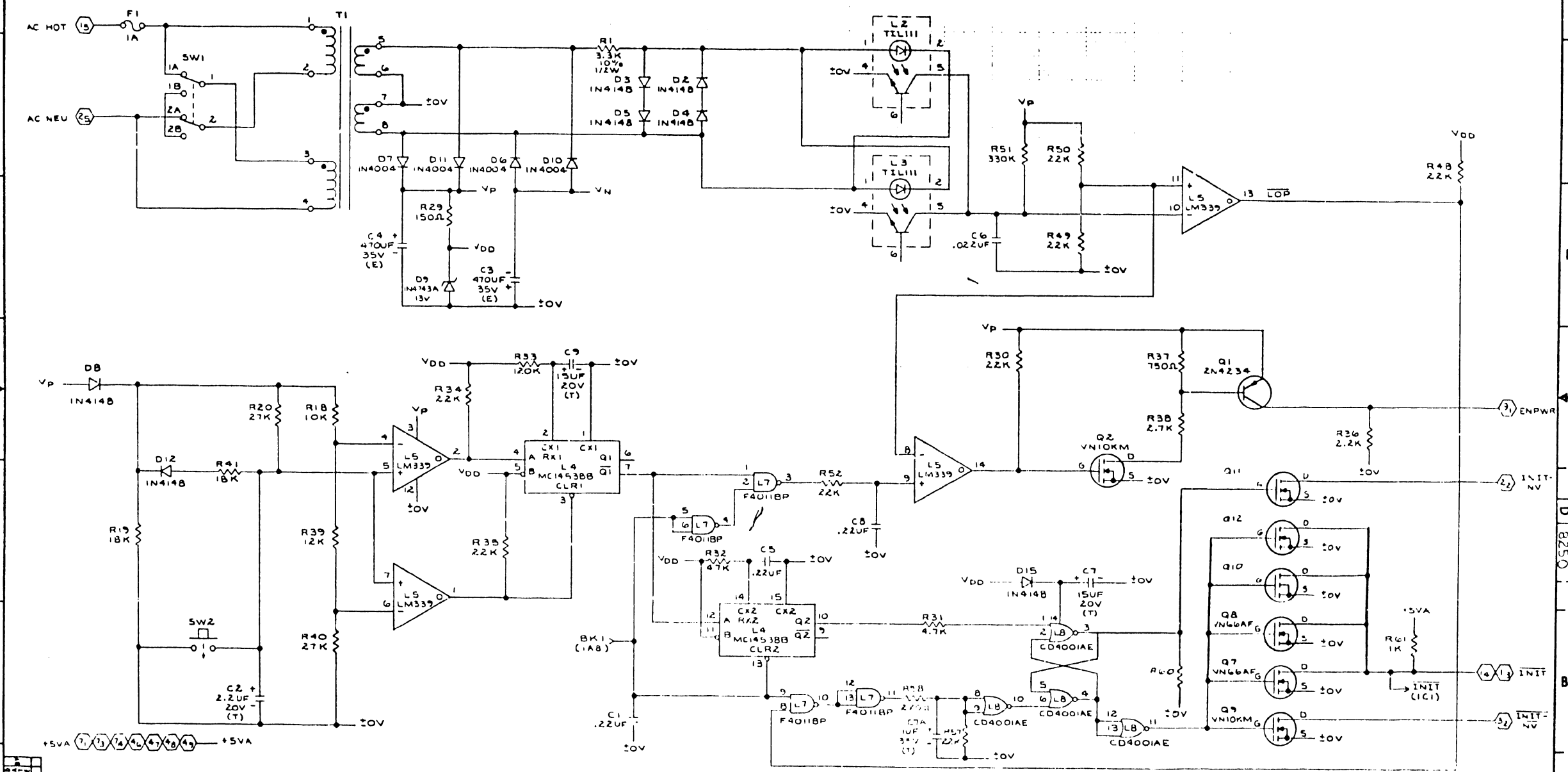
NOTE: ALL REL. ARE 100% UNLESS OTHERWISE SPECIFIED.

WANG engineering drawing header form with fields for drawing number, title, date, and revision.



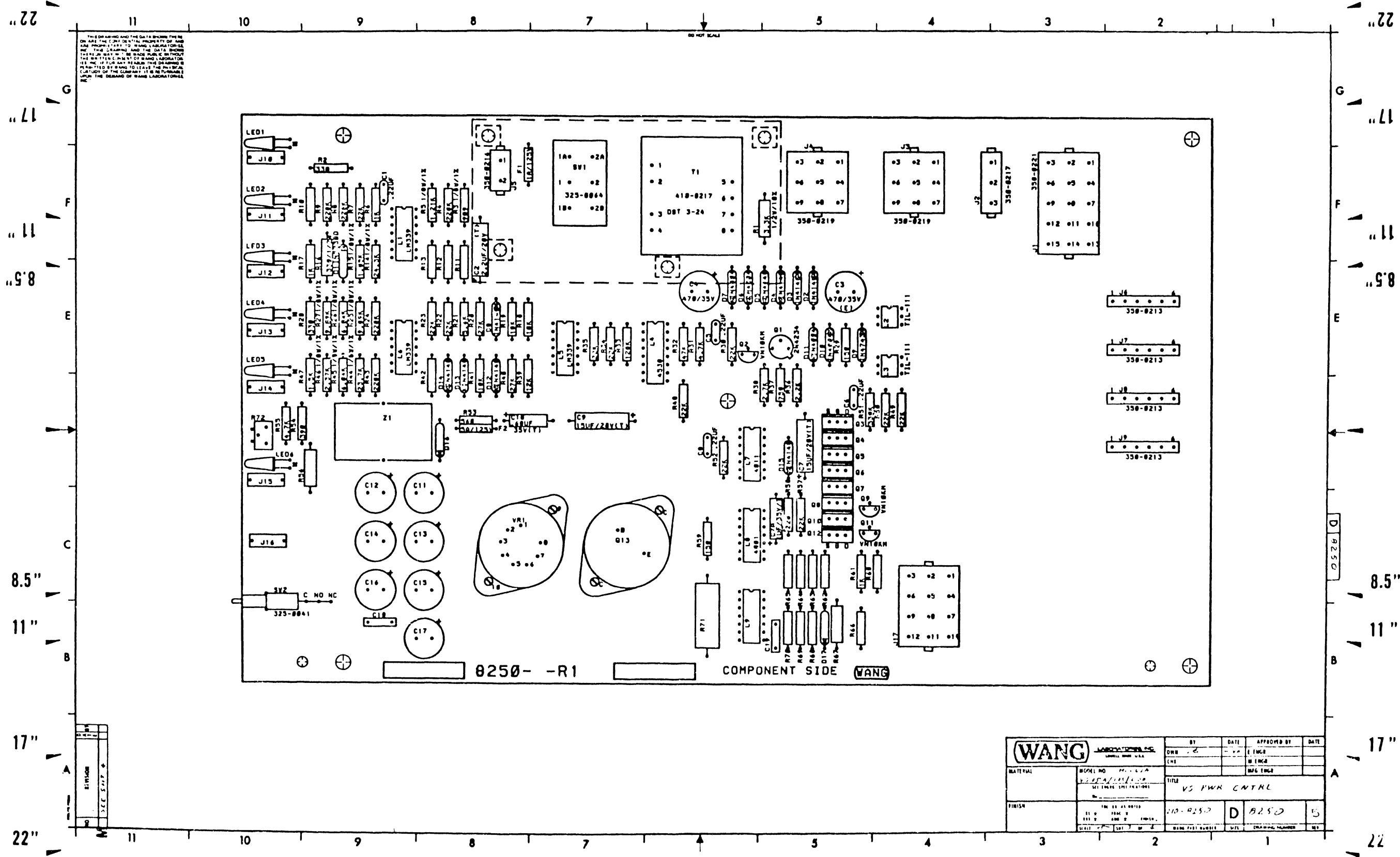
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DO NOT SCALE



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		WANG LABORATORIES, INC. LOWELL, MASS. U.S.A.	
MODEL NO. 210-8250 VS PWR CNTRL	TITLE VS PWR CNTRL	BY JOHN C. LUDWIG	DATE 7-6-72
MATERIAL FINISH	TOL. IS AS NOTED SEE DIMENSIONS FOR TOLERANCES UNLESS OTHERWISE SPECIFIED	APPROVED BY [Signature]	DATE 7-6-72
210-8250 D 8250		8250	



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REV	DATE	BY
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WANG LABORATORIES, INC. LITTLE ROCK, ARK.		BY	DATE	APPROVED BY	DATE
MATERIAL	WORK NO. 0250- -R1	DRN		ENG	
FINISH	10-0250	CHK		DRG ENGR	
TITLE		VS PWR CTRL			
SCALE		10-0250	D	0250	15
DRAWN BY		DRG. NO.			

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COMPONENT	TYPE	W.L. PART NO.
R1	3.3K 10% 1/2W	331-3033
R2	28 5% 1/4W	330-2034
R3	909Ω 1% 1/8W	333-0059
R4, R9	2.20K 5% 1/4W	330-5023
R5	1.21K 1% 1/8W	333-0106
R6, R17, R1	1K 5% 1/4W	330-3011
R7, R22, R23, R30, R34, R5	2.2K 5% 1/4W	330-4023
R25, R27	3.09K 5% 1/8W	333-0061
R4	2.3K 1% 1/8W	333-0135
R5	1.05K 1% 1/8W	333-0127
R16	330Ω 5% 1/2W	331-2034
R8	0K 5% 1/4W	330-4011
R19, R4	8K 5% 1/4W	330-4019
R20, R0	47K 5% 1/4W	330-4028
R21	5.6K 5% 1/4W	330-3057
R26, R5	6.04K 1% 1/8W	333-0094
R29	150Ω 5% 1/4W	330-2016
R31, R5, R0	4.7K 5% 1/4W	330-3048
R32	47K 5% 1/4W	330-4048
R35	120K 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 5% 1/8W	333-0093
R47	1.5K 5% 1/4W	330-3016
R51	330K 5% 1/4W	330-5034
R5	120Ω 5% 1/4W	330-2023
R54	370Ω 5% 1/4W	330-2040

COMPONENT	TYPE	W.L. PART NO.
C1, 5, 8	.22UF 50V	300-1926
C2	2.2UF 20V (I)	300-4014
C3, 4	470UF 35V (E)	300-3322
C6	.022UF 100V	300-1927
C7, 9	15UF 20V (T)	300-4022

COMPONENT	TYPE	W.L. PART NO.
C7A	1UF 35V (T)	300-4000
D1	1N5230D 4.7V	360-2147
D2-5, 8, 12-19	1N4148	360-1014
D6, 7, 10, 11	1N4004	360-4000
D9	1N4743A 13V	360-2113

COMPONENT	TYPE	W.L. PART NO.
Q1	2N4234	375-1024
Q2, 3, 11	VN10KM	375-1115
Q3, 9, 7, 8	VN100AF	375-1125

COMPONENT	TYPE	W.L. PART NO.
LED1, 3, 4, 5	MV5024	370-0026

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

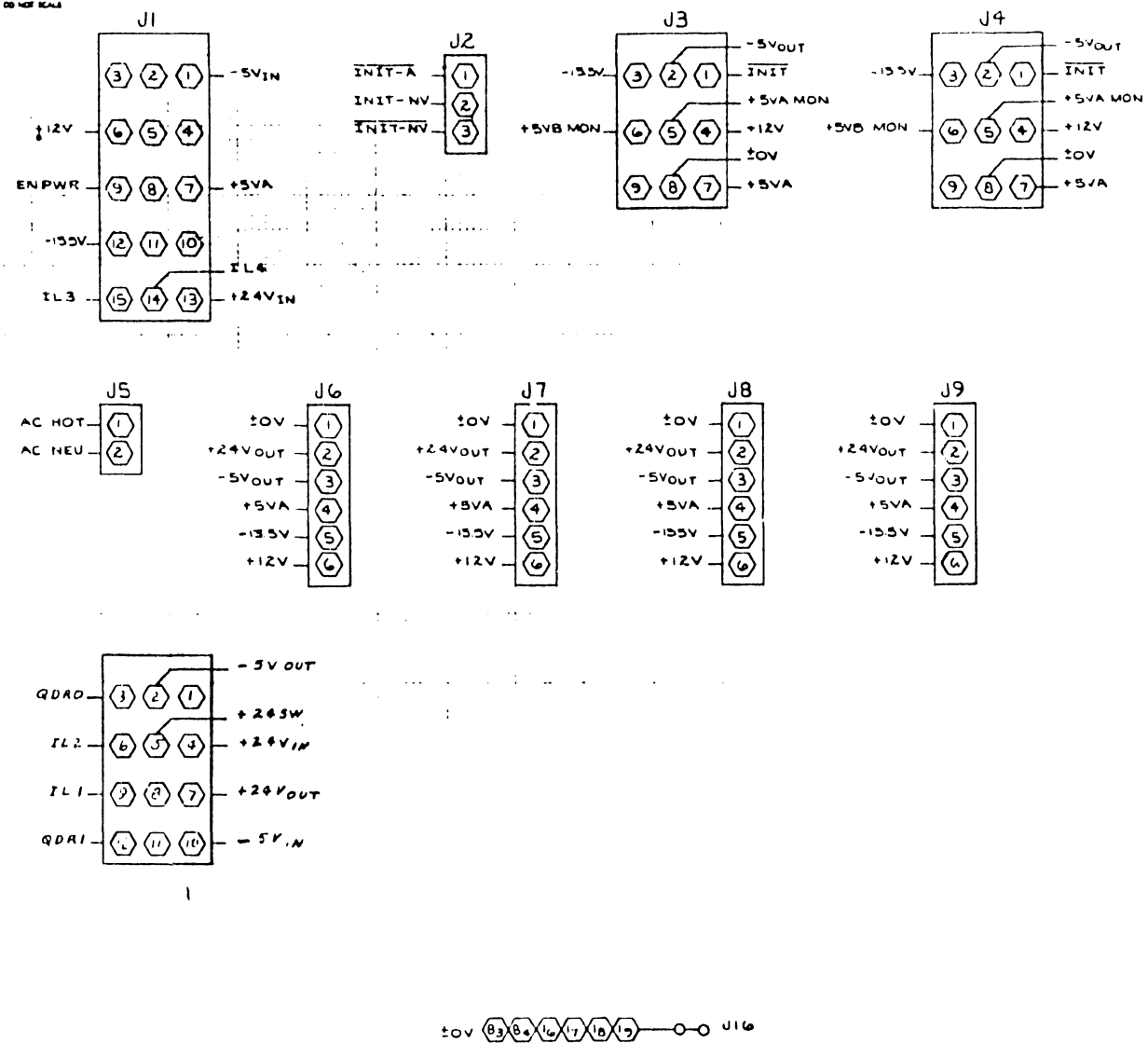
COMPONENT	TYPE	W.L. PART NO.
SW1	220/115 VAC SLIDE	325-0064
SW2	SPOT P.B.	325-0091
T1	XFMR 115/230V	410-0217

COMPONENT	TYPE	W.L. 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.	350-0213
J10, 12, 14	TEST POINTS	645-0073
J16	TEST POINTS	645-0056

I.C. LOCATION	TYPE	W.L. PART NO.
L1, 5, 6	LM335	376-0240
L2, 3	TTL III	375-2109
L4	MC1453BB	376-0459
L7	F4011P	376-0575
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	ZC1
INIT-NV	ZC1
QDR1	IF1
QDR0	IG3
-5VIN	IG8
-5VOUT	IE1
-15.5V	IB11
+5VA	ZB11
+5A MON	IF11
+5B MON	IE11
+12V	IC11
+24.5W	ID1
+24VIN	ZA11
+24VOUT	IE11

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



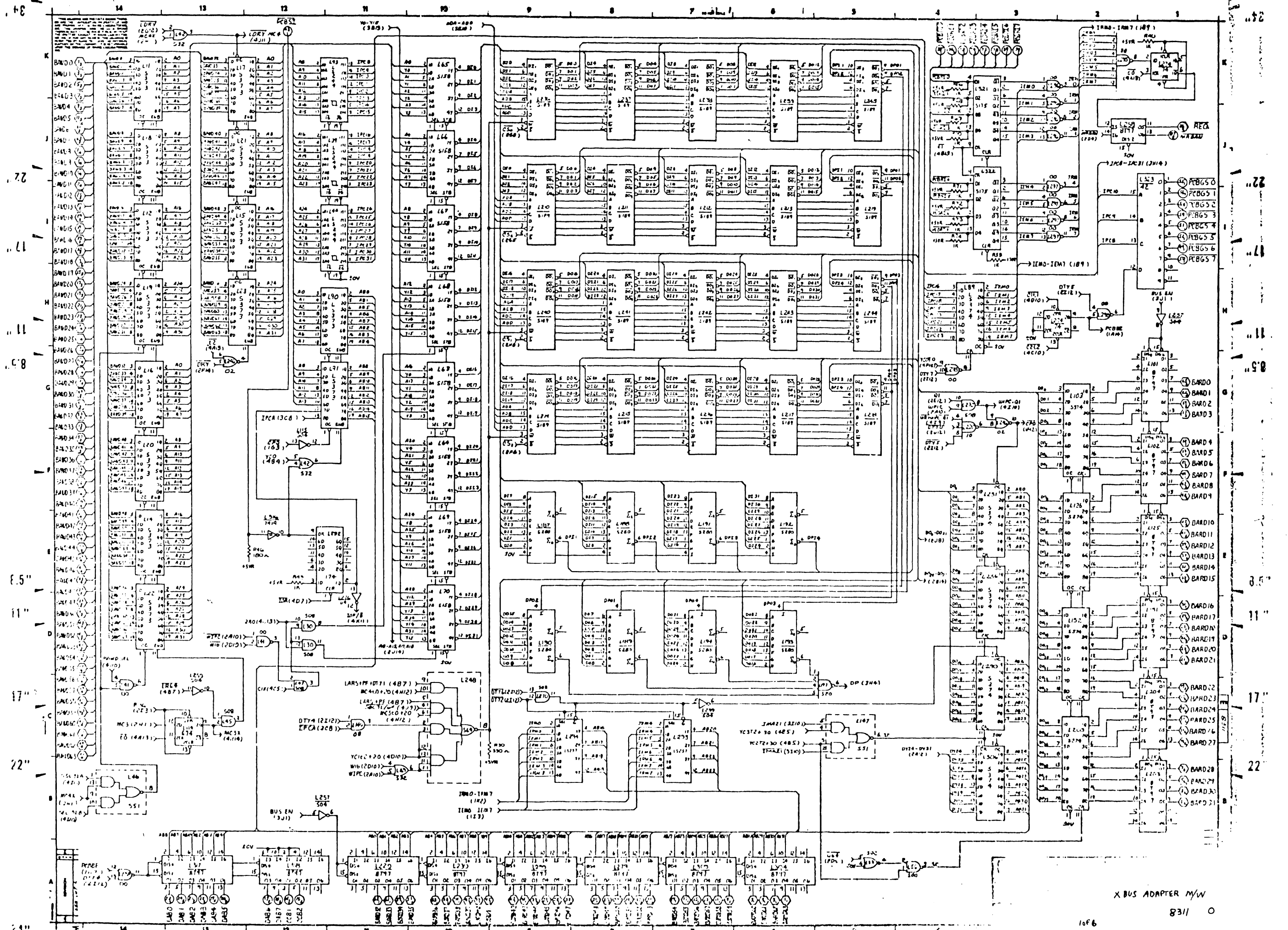
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E-REV

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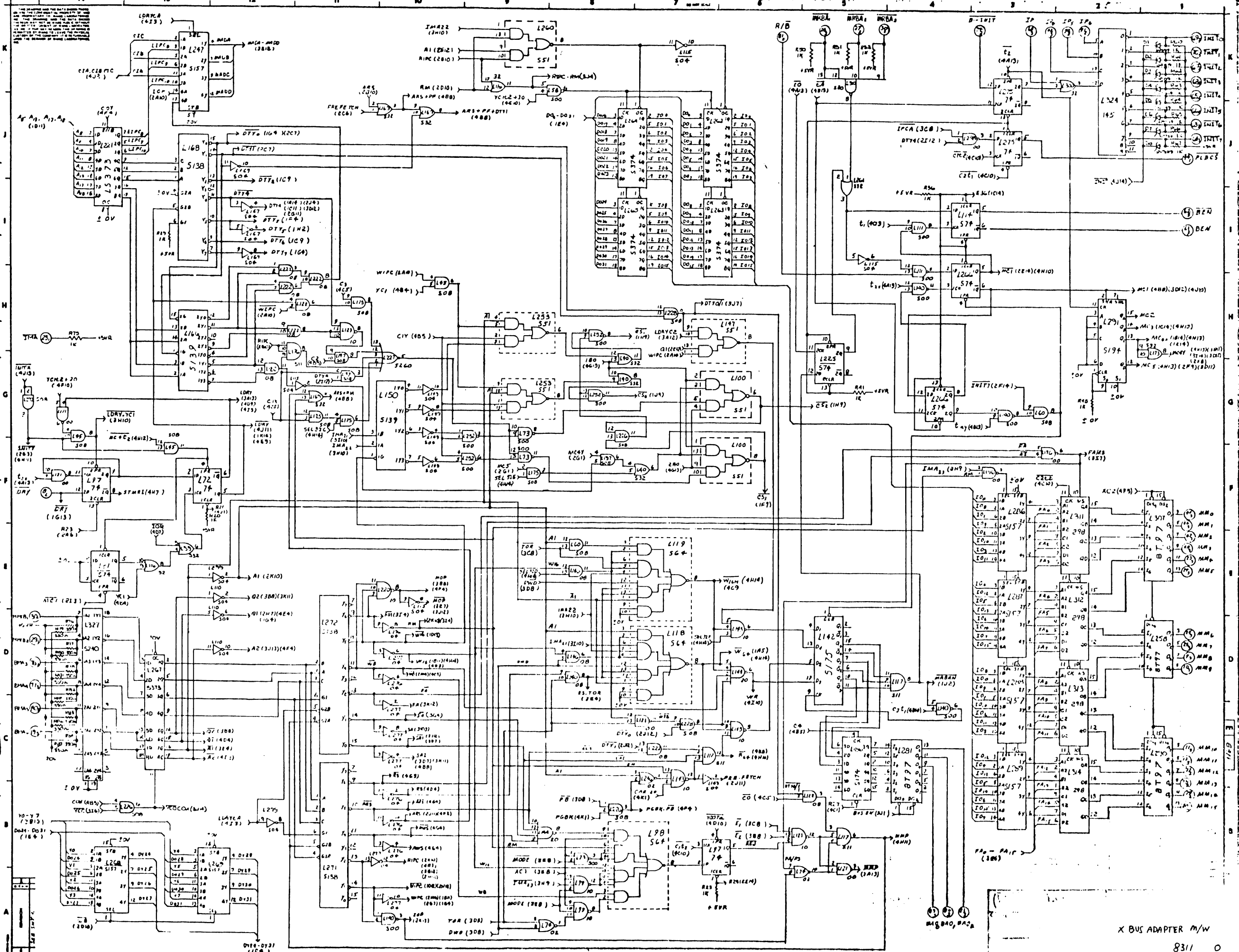
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WEEK	REVISION NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
...
MATERIAL			MATERIAL NO. 74-2A			...
FINISH			74-35A/35-230			...
			TITLE: VS PWR CNTL			...
			PART NO. 210 8250			...
			REV. D			...
			DATE 8250			...

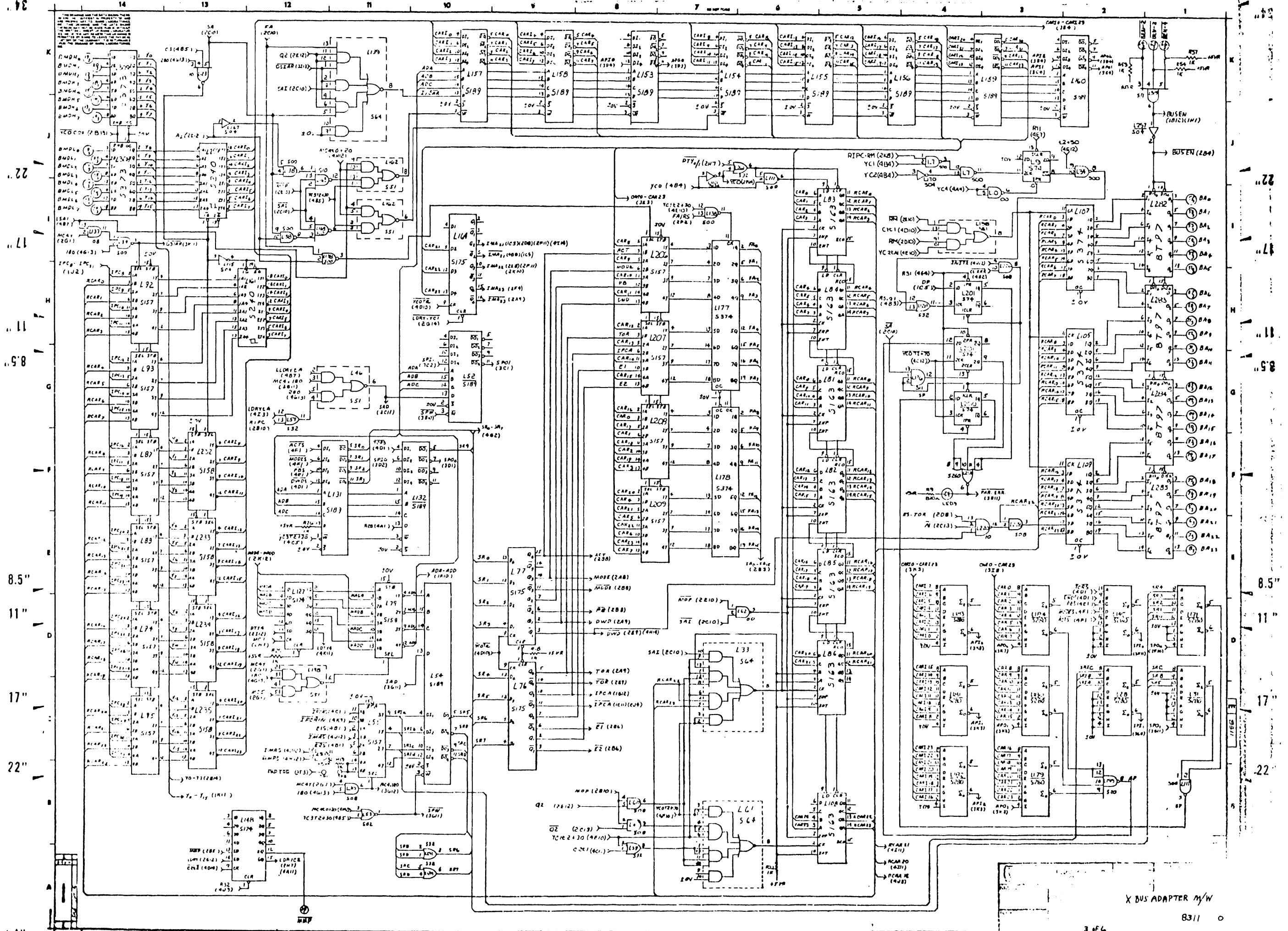


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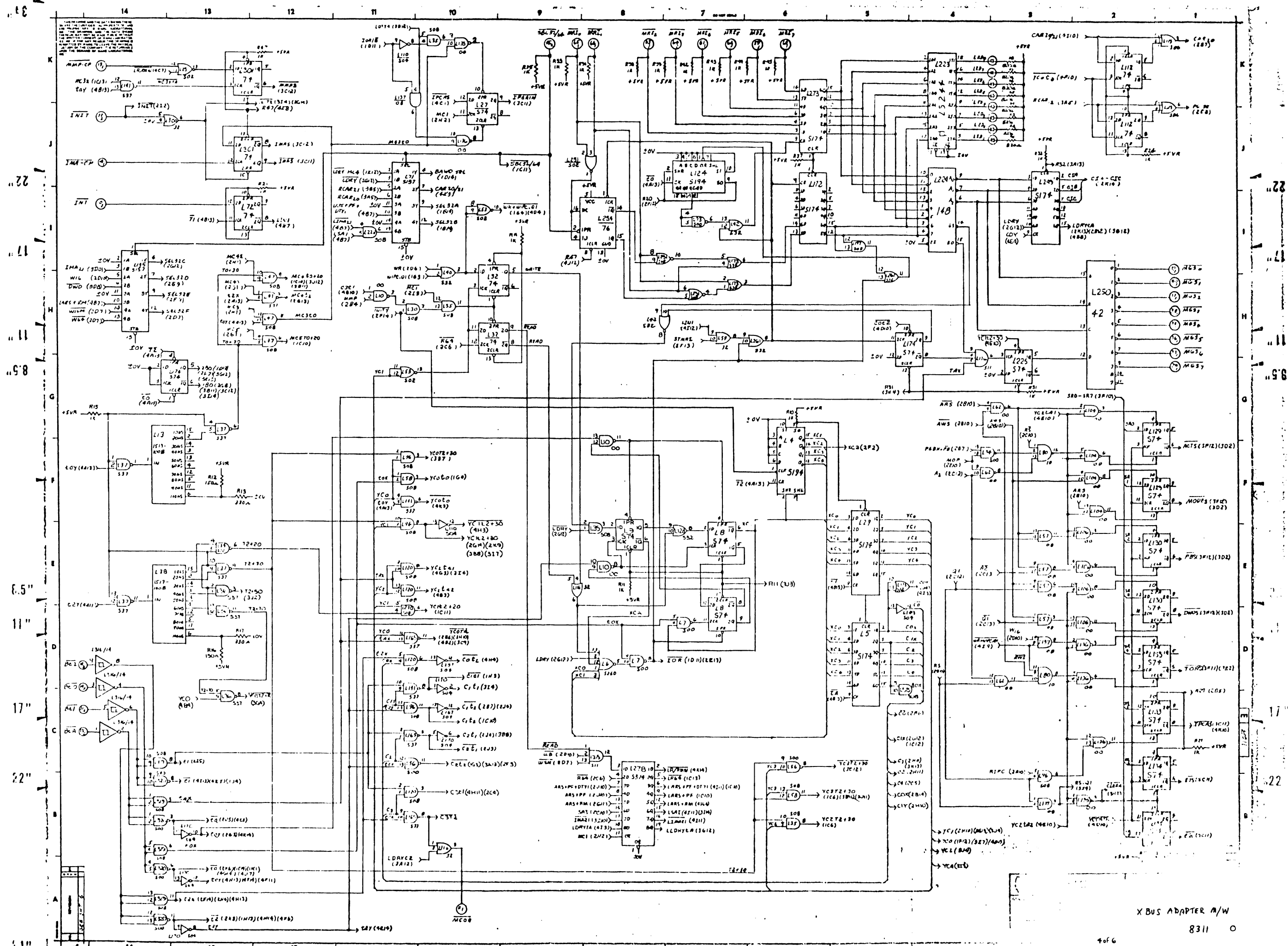
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X BUS ADAPTER M/W



X BUS ADAPTER M/W



X-BUS ADAPTER A/W

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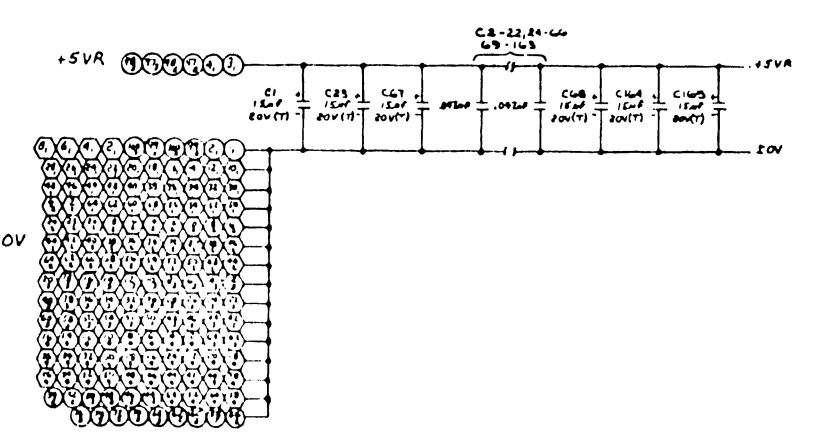
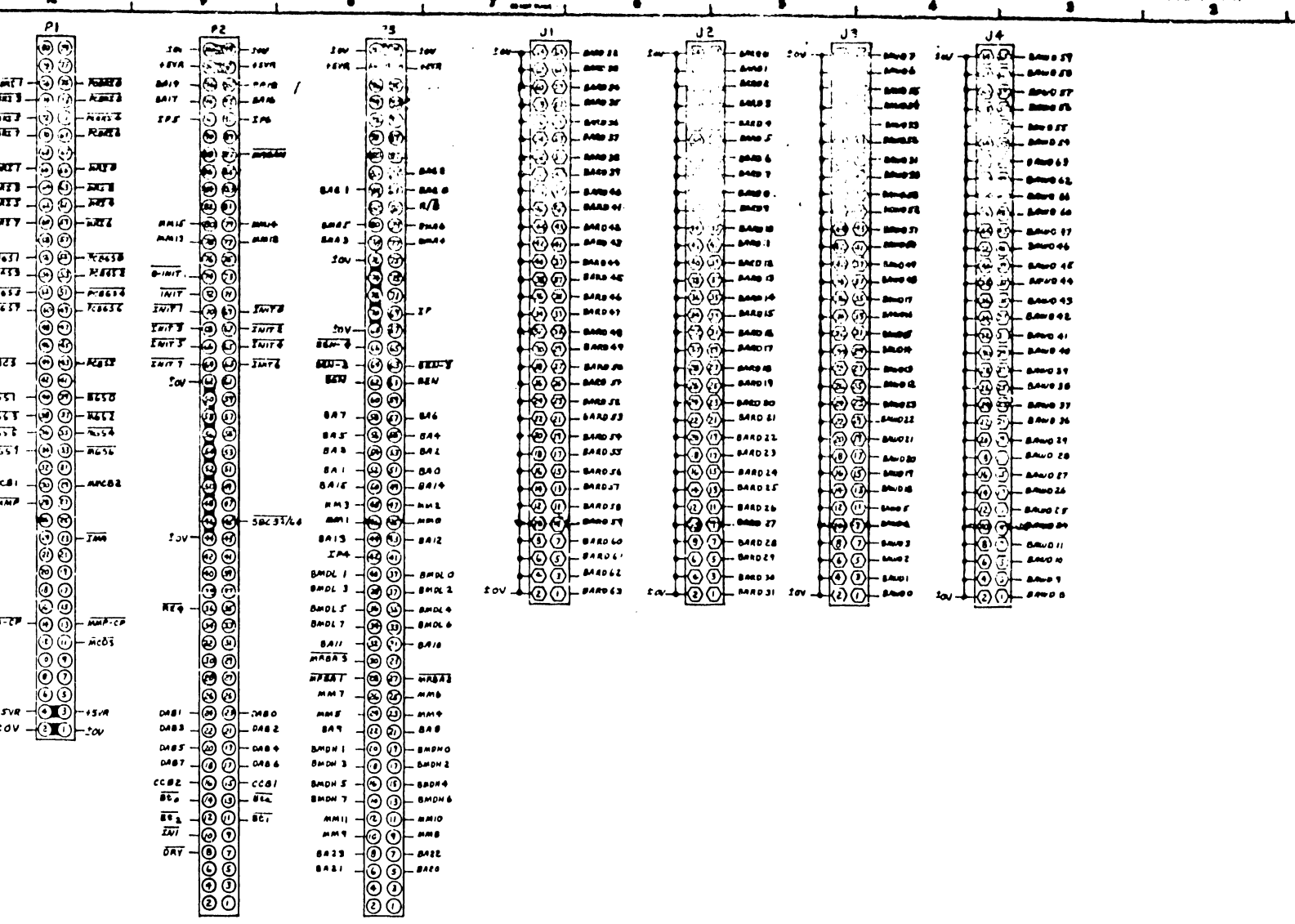
WANG		DATE	APPROVED BY	CHK
210-B011		8/31	[Signature]	
X-BUS ADAPTER M/W		REV		
E		8/31		

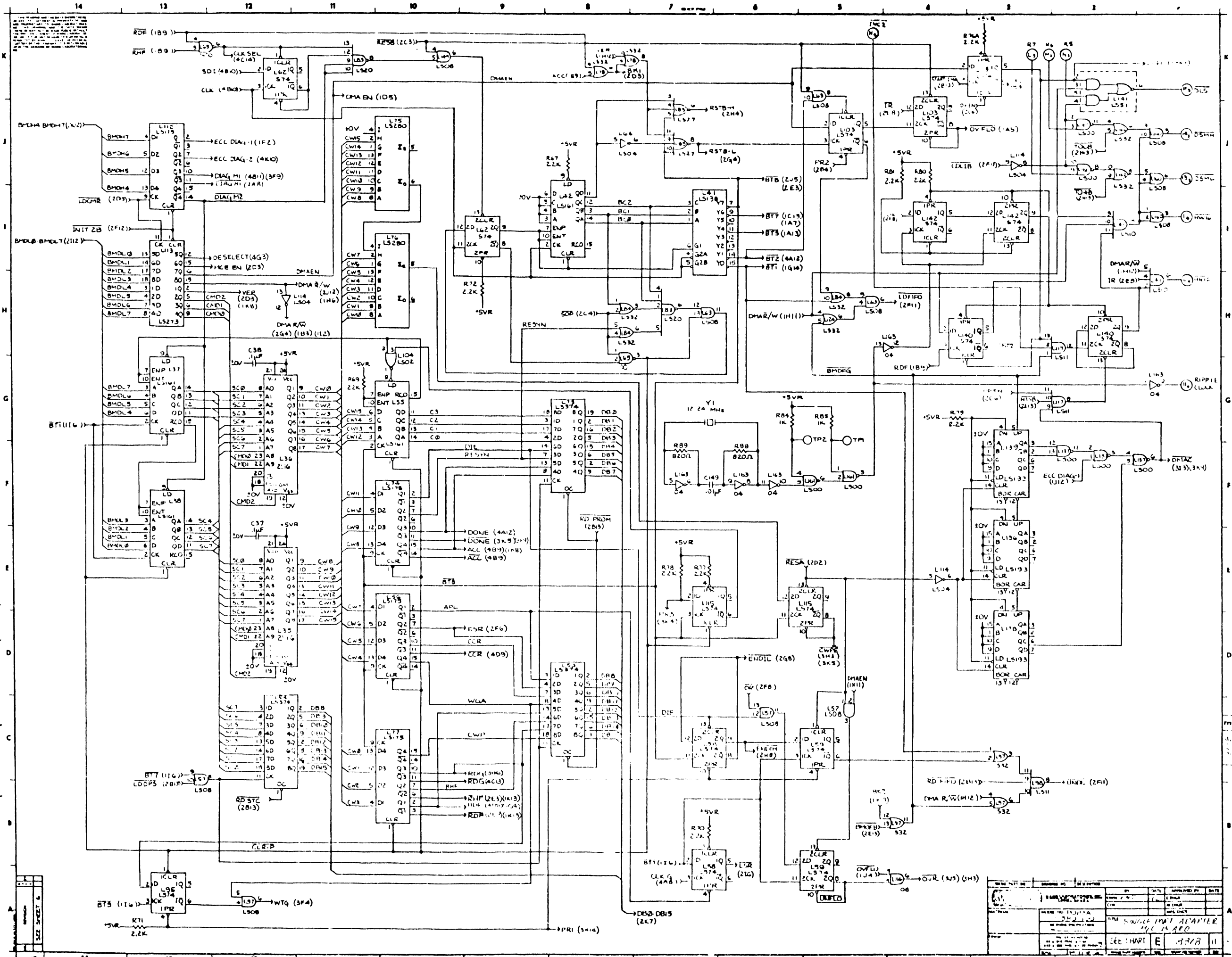
IC LOCATION	TYPE	ML PART NO.
L1, 2, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	SMRE	
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74579 3%-0221
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74579 3%-0297
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0206
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0228
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74579 3%-0202
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74579 3%-0208
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0202
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0206
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0208
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0210
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0212
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0214
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0216
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0218
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L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0224
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L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0234
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0236
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0238
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L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0244
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0246
L3, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34		74500 3%-0248
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COMPONENT	TYPE	ML PART NO.
R11-R20	820A 1/4W 3%	330-2023
R21-R30	1K 1/4W 5%	330-3010
R31-R40	150A 1/4W 5%	330-2016
R41-R50	220A 1/4W 5%	330-2034
R51-R60	180A 1/4W 5%	330-2017
C1-C4	10MFD 50V	300-9022
C5-C8	10MFD 25V	300-1766
L1-L4	CH2C 1uH	370-0051
L5-L8	600PM COMM	350-0440
D1-D4	1N4001S	300-9019

TYPE	IC LOCATION	SPARES
7400	L1	2
	L15	2
	L19	2
7402	L7	1
	L24	1
	L25	2
	L29	2
74504	L5	1
	L8	1
	L9	1
74510	L13	1
74511	L15	1
74512	L16	1
74520	L31	1
74521	L32	1
74522	L36	1
74523	L10	1
74524	L20	1
7476	L25	1
74526	L11	2
74527	L6	1
74528	L20	1
74529	L22	1
74531	L26	1

MARKING	COMP.
BA0-BA2	BA0
BA3-BA5	BA1
BA6-BA8	BA2
BA9-BA11	BA3
BA12-BA14	BA4
BA15-BA17	BA5
BA18-BA20	BA6
BA21-BA23	BA7
BA24-BA26	BA8
BA27-BA29	BA9
BA30-BA32	BA10
BA33-BA35	BA11
BA36-BA38	BA12
BA39-BA41	BA13
BA42-BA44	BA14
BA45-BA47	BA15
BA48-BA50	BA16
BA51-BA53	BA17
BA54-BA56	BA18
BA57-BA59	BA19
BA60-BA62	BA20
BA63-BA65	BA21
BA66-BA68	BA22
BA69-BA71	BA23
BA72-BA74	BA24
BA75-BA77	BA25
BA78-BA80	BA26
BA81-BA83	BA27
BA84-BA86	BA28
BA87-BA89	BA29
BA90-BA92	BA30
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BA297-BA299	BA99
BA300-BA302	BA100





REV	DATE	BY	CHKD	APP'D	REVISION
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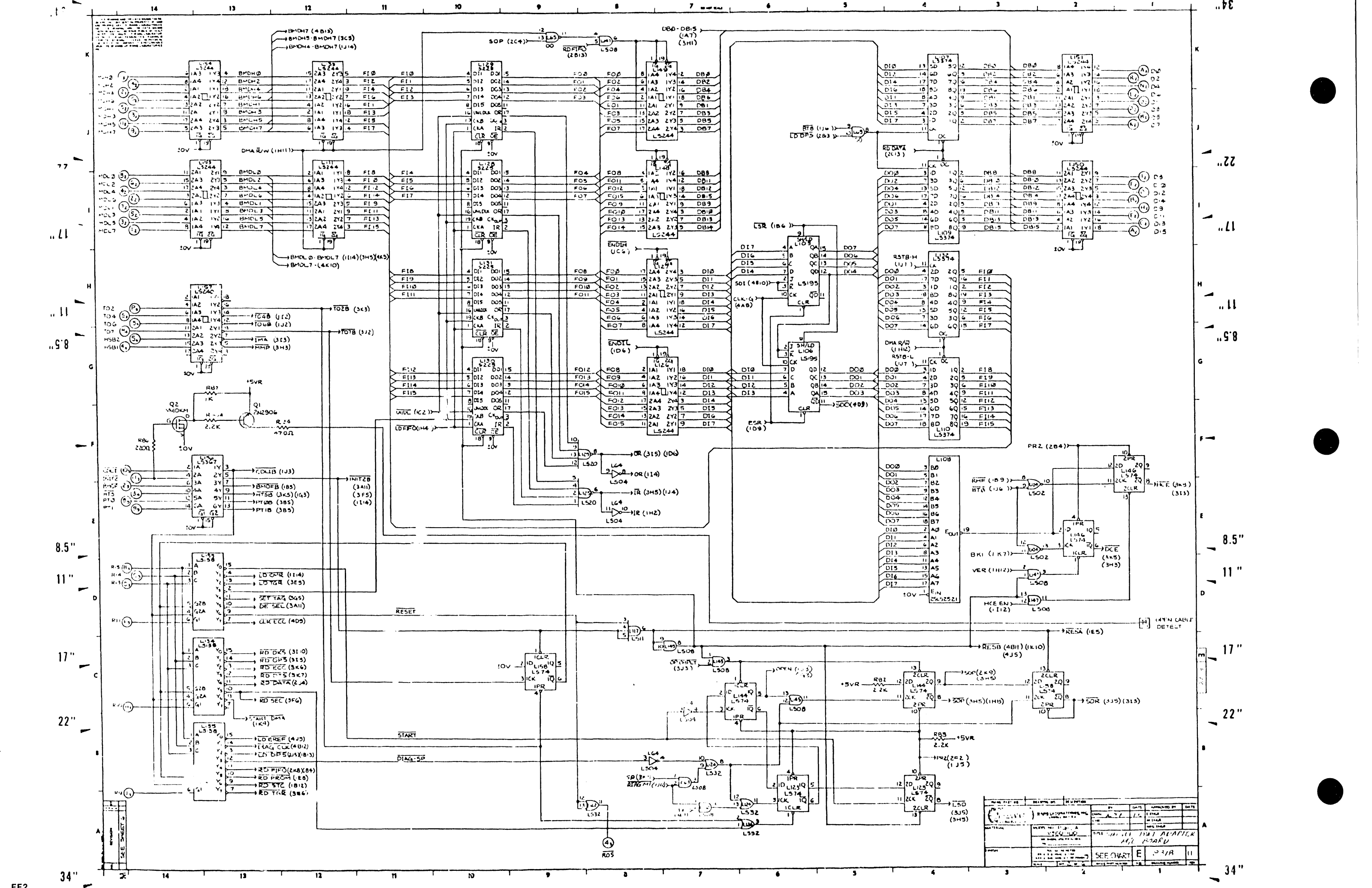
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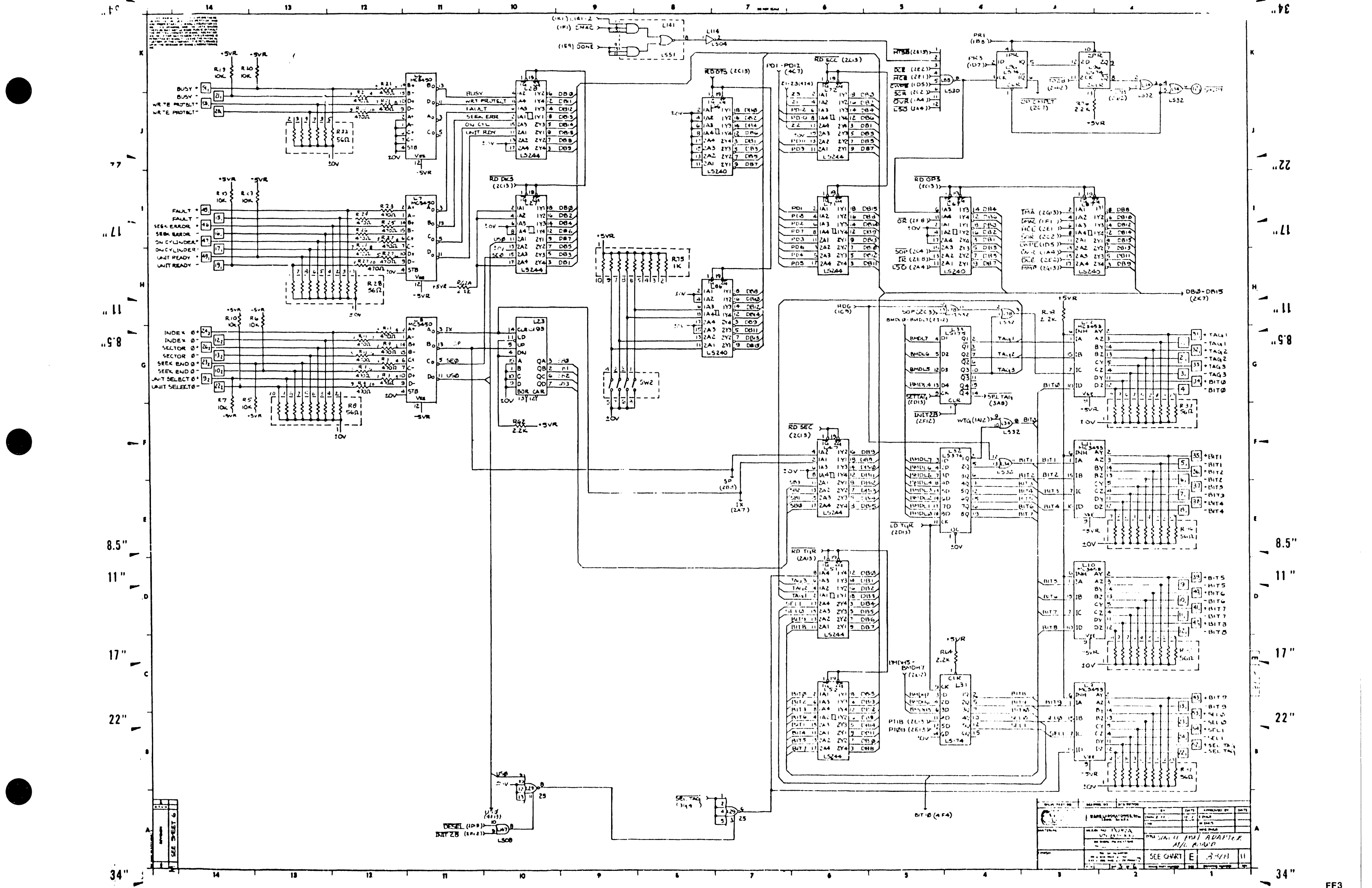
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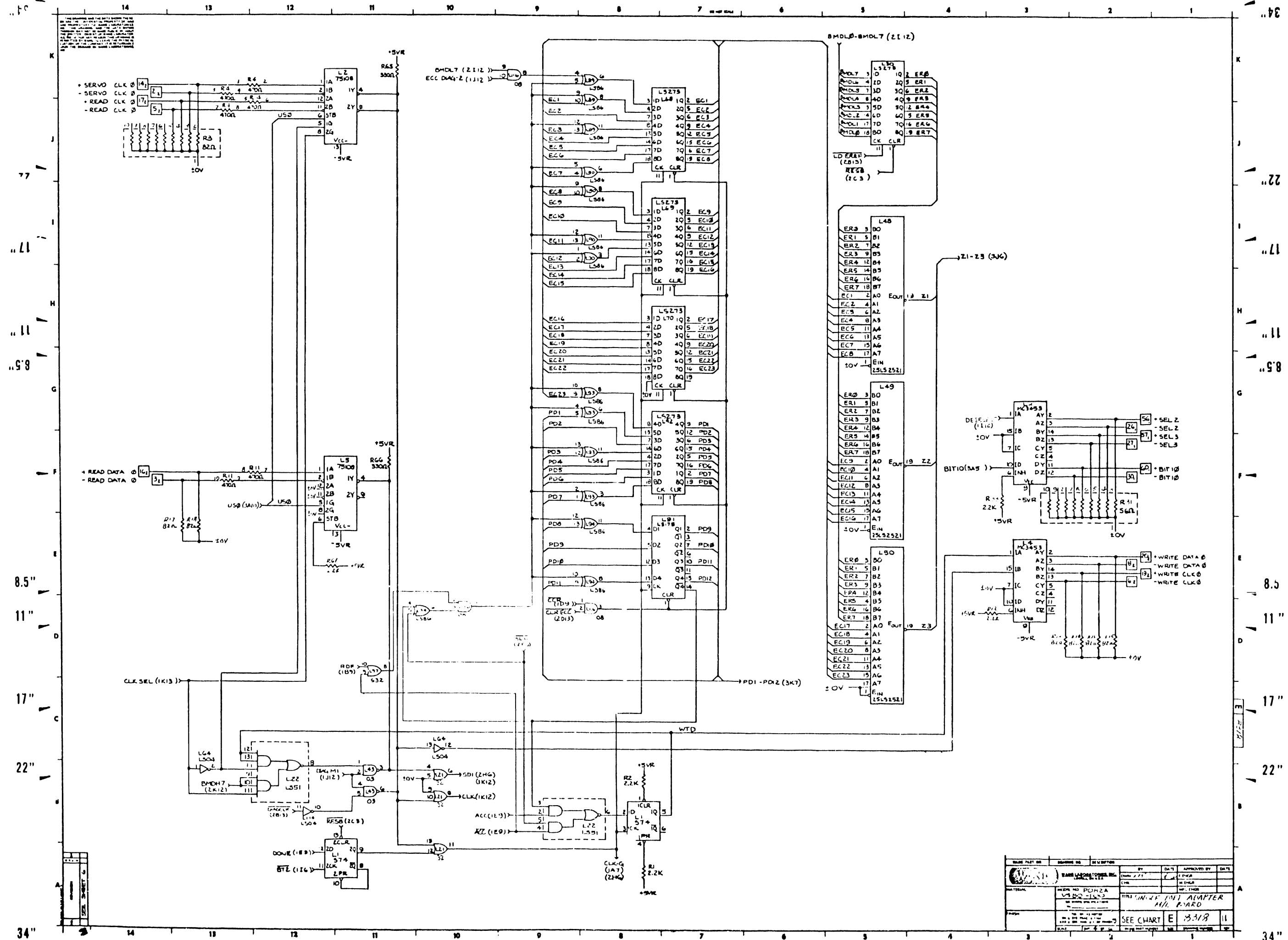
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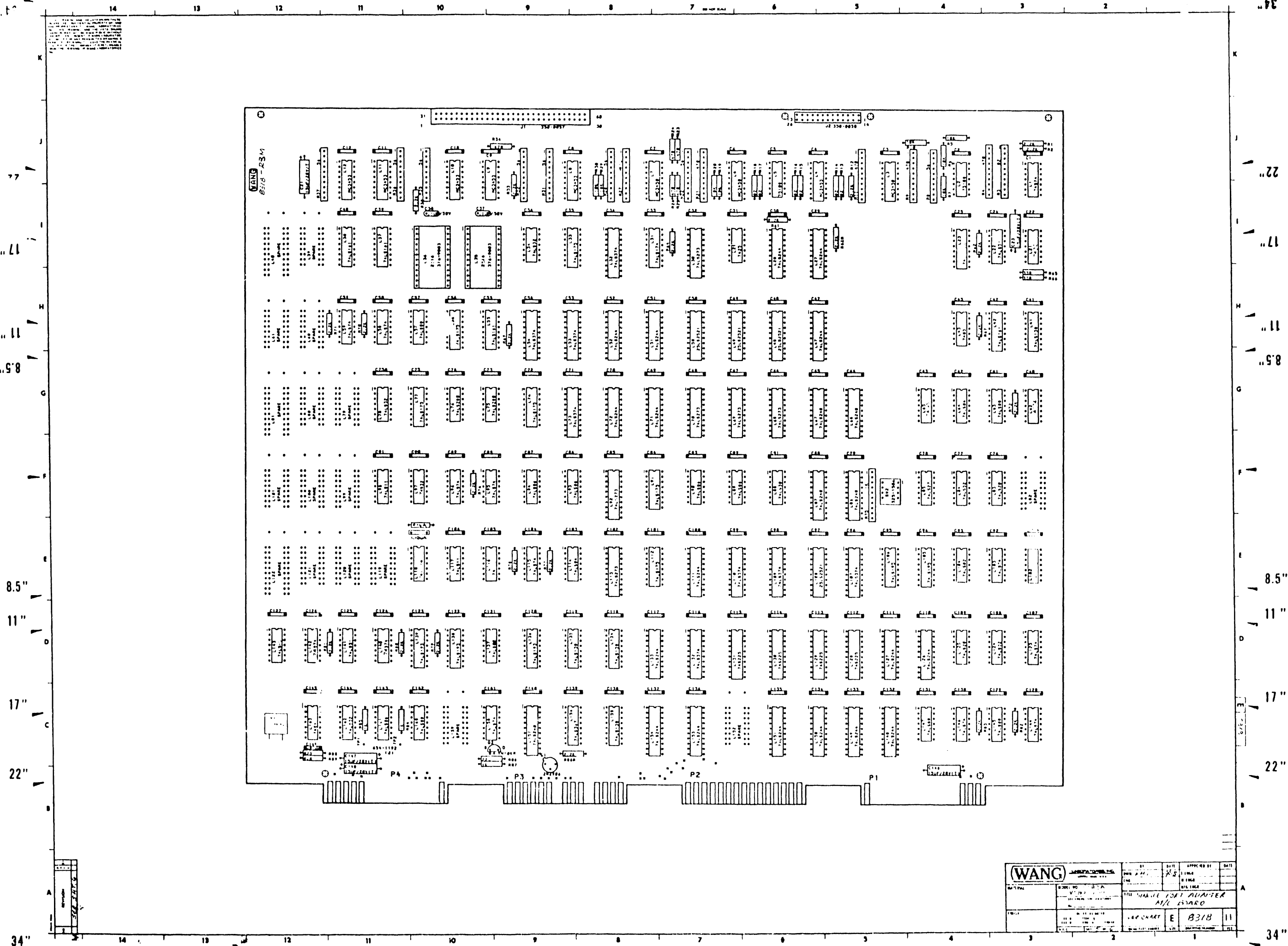


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11/11/68	[Signature]	11/11/68
PREPARED BY: [Signature] CHECKED BY: [Signature] TITLE: [Signature] PROJECT: [Signature]		
SEE CHART	E	3/4/11



DATE	BY	APPROVED BY	DATE
11/11/88	W. J.
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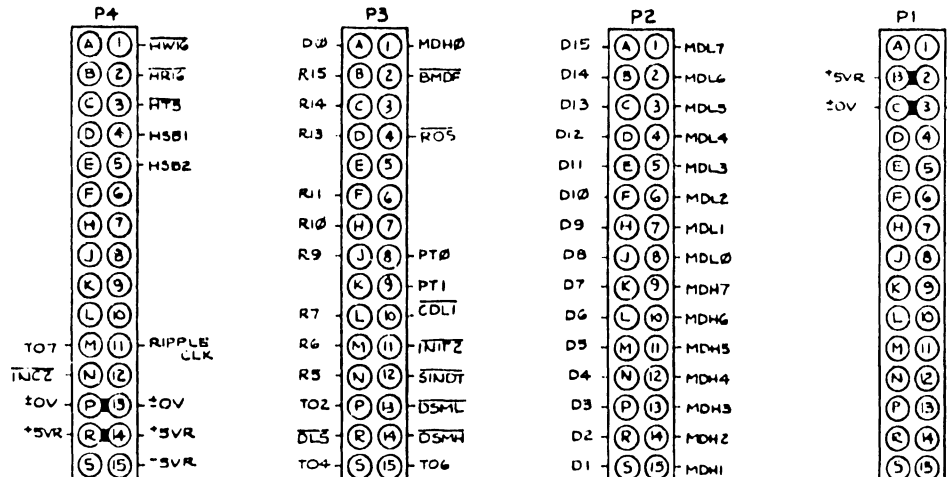
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 PART: SEE CHART E
 DATE: 11/11/88



WANG		DATE	APPROVED BY	DATE
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TITLE: MAINFRAME MAINBOARD				
DRAWN BY: E 8318				
CHECKED BY: E 8318				
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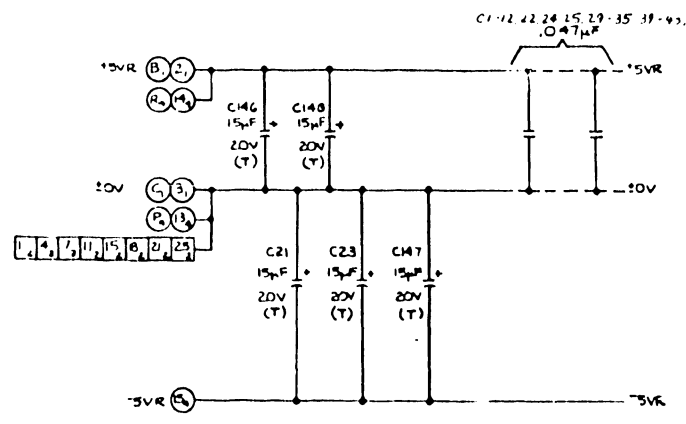
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74541	74541	376-0041
74542	74542	376-0042
74543	74543	376-0043
74544	74544	376-0044
74545	74545	376-0045
74546	74546	376-0046
74547	74547	376-0047
74548	74548	376-0048
74549	74549	376-0049
74550	74550	376-0050
74551	74551	376-0051
74552	74552	376-0052
74553	74553	376-0053
74554	74554	376-0054
74555	74555	376-0055
74556	74556	376-0056
74557	74557	376-0057
74558	74558	376-0058
74559	74559	376-0059
74560	74560	376-0060

MEMORIALS	COORD.
BIT0	4E1
BIT1	5E1
BIT2	6E1
BIT3	7E1
BIT4	8E1
BIT5	9E1
BIT6	10E1
BIT7	11E1
BIT8	12E1
BIT9	13E1
OPEN CABLE DETECT	14E1
FAULT	15E1
SEEK ERR	16E1
ON CYL	17E1
UNIT RDY	18E1
BUSY	19E1
SEL TAG	20E1
SEL 0	21E1
SEL 1	22E1
SEL 2	23E1
SEL 3	24E1
WRITE PROTECT	25E1
BIT 10	26E1



FILE	IC LOCATION	SPARES
74500	L17	1
74501	L14	1
74502	L17	1
74503	L98	2
74504	L14	1
74505	L21	1
74506	L19	1
74507	L14	1
74508	L19	1
74509	L14	1
74510	L14	1

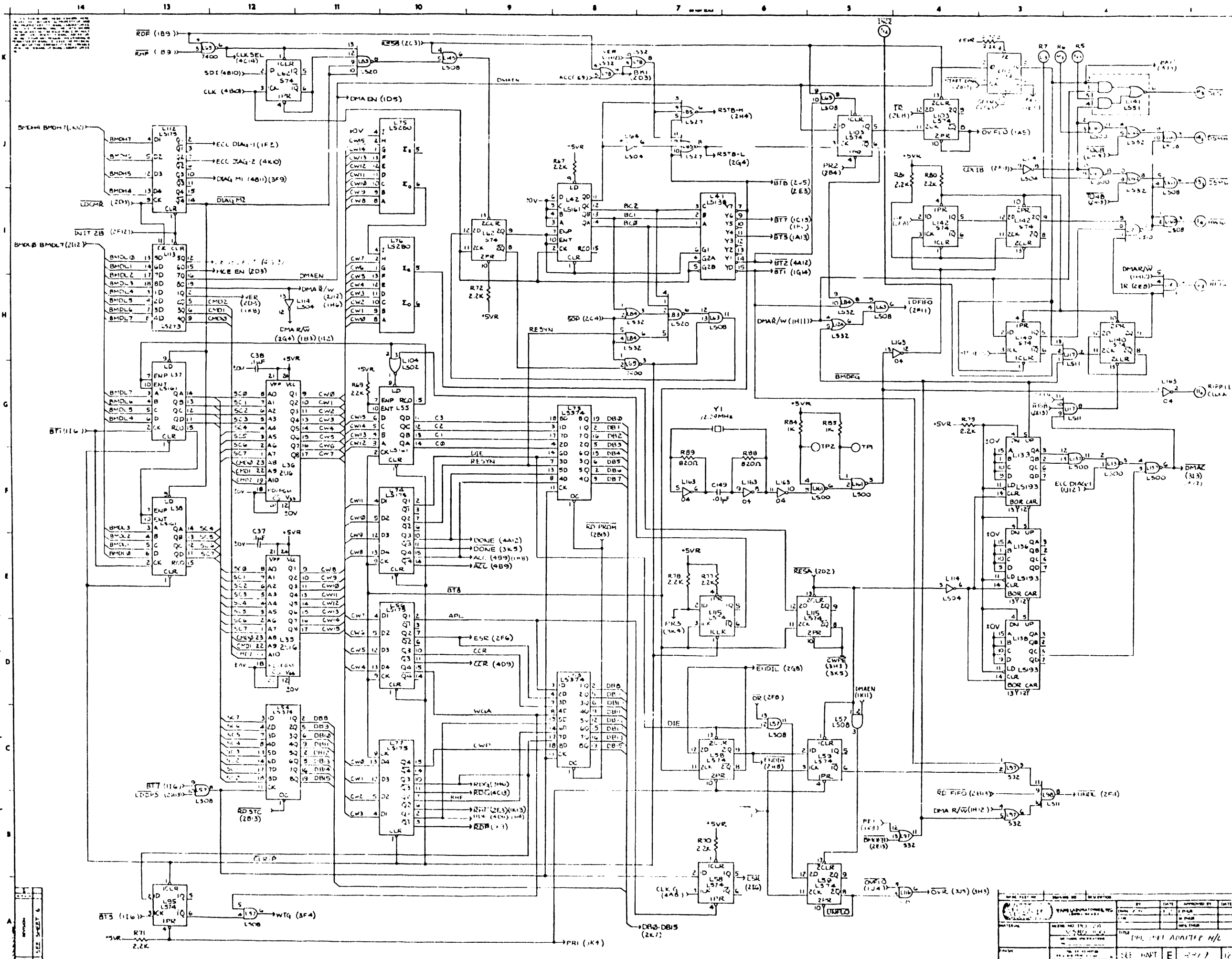
MEMORIALS	COORD.	MEMORIALS	COORD.
*SEL TAG	3B1		
*SEL TAG	3B1		
*SEL TAG	4K14		
*SEL TAG	4K14		
*WRITE DATA	4E1		
*WRITE DATA	4E1		
*WRITE PRO	3J14		
*WRITE PRO	3J14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
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*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		
*UNIT RDY	3H14		



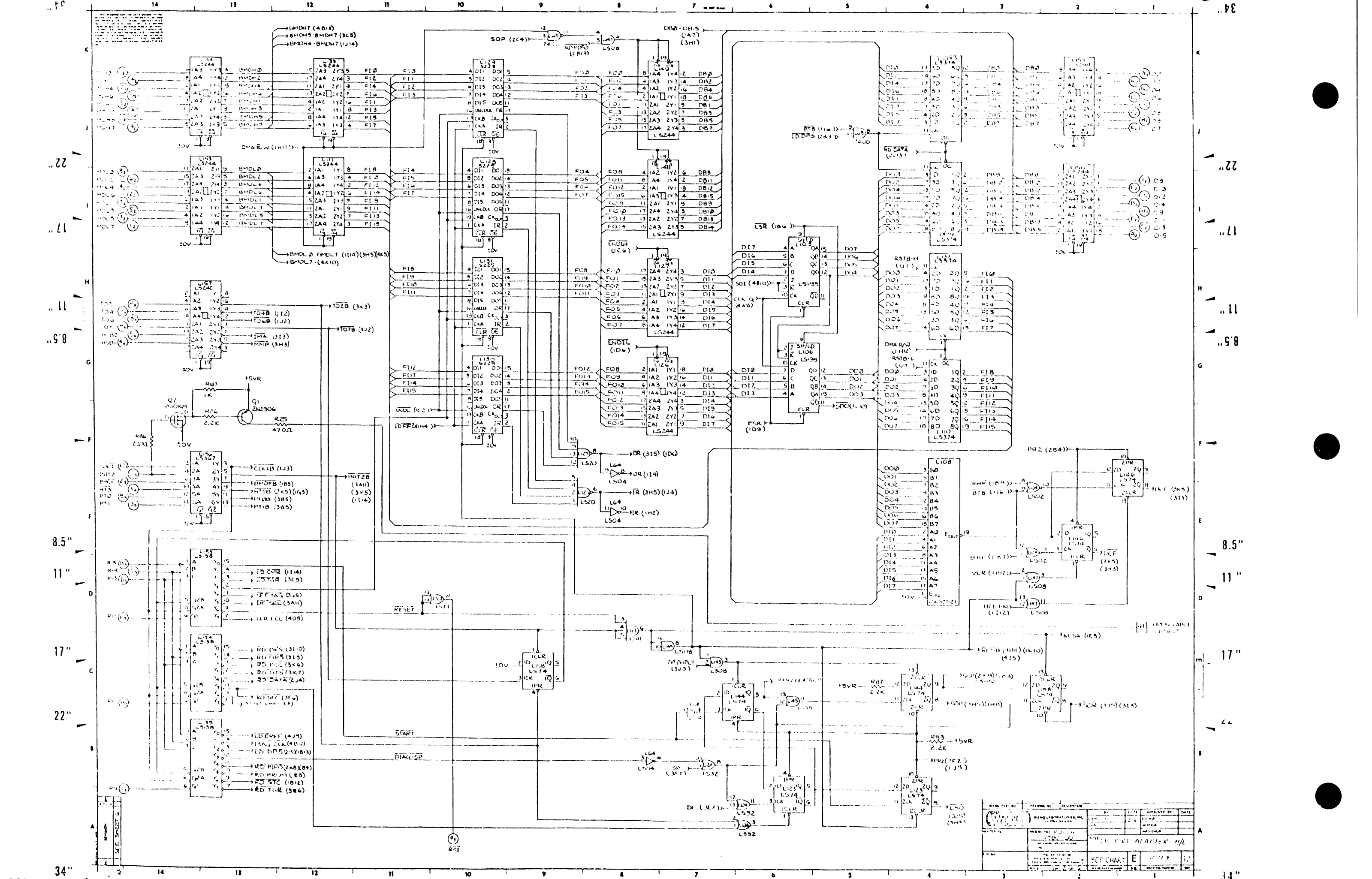
FILE	IC LOCATION	SPARES
74500	L17	1
74501	L14	1
74502	L17	1
74503	L98	2
74504	L14	1
74505	L21	1
74506	L19	1
74507	L14	1
74508	L19	1
74509	L14	1
74510	L14	1

FILE	IC LOCATION	SPARES
74500	L17	1
74501	L14	1
74502	L17	1
74503	L98	2
74504	L14	1
74505	L21	1
74506	L19	1
74507	L14	1
74508	L19	1
74509	L14	1
74510	L14	1

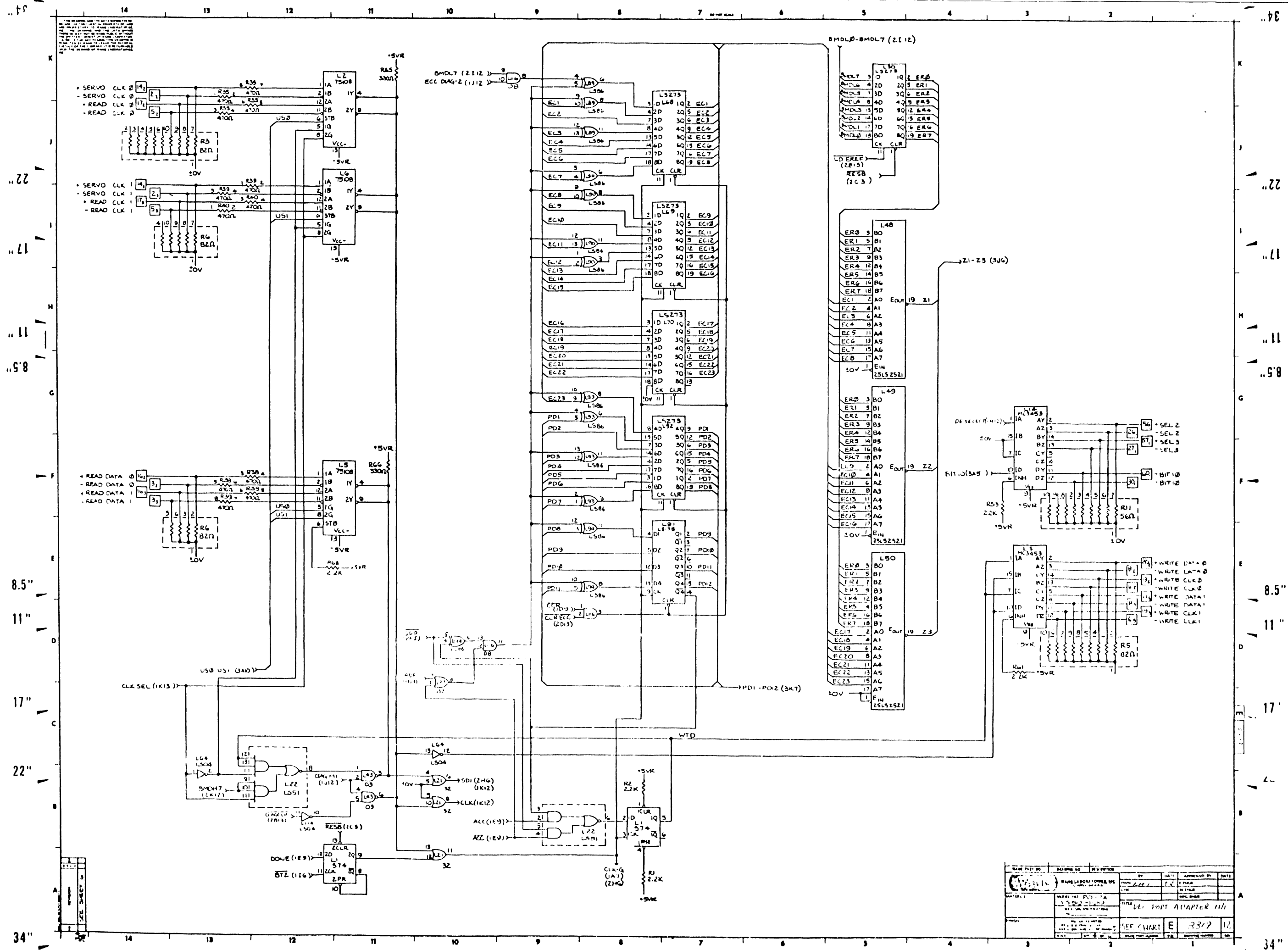
DATE	BY	REVISION	DATE
8/3/78	E	83/8	11



REV	DESCRIPTION	DATE	APPROVED BY	DATE
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2	REVISION	10/1/71		
3	REVISION	10/1/71		
4	REVISION	10/1/71		
5	REVISION	10/1/71		
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17	REVISION	10/1/71		
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19	REVISION	10/1/71		
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23	REVISION	10/1/71		
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25	REVISION	10/1/71		
26	REVISION	10/1/71		
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35	REVISION	10/1/71		
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95	REVISION	10/1/71		
96	REVISION	10/1/71		
97	REVISION	10/1/71		
98	REVISION	10/1/71		
99	REVISION	10/1/71		
100	REVISION	10/1/71		



REV	DESCRIPTION	BY	DATE
1	ISSUED FOR FABRICATION
2
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4
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REV	DATE	BY	APP'D	DATE
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REV	DATE	BY	APP'D	DATE
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9				
10				
11				
12				

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

22" 17" 11" 8.5"

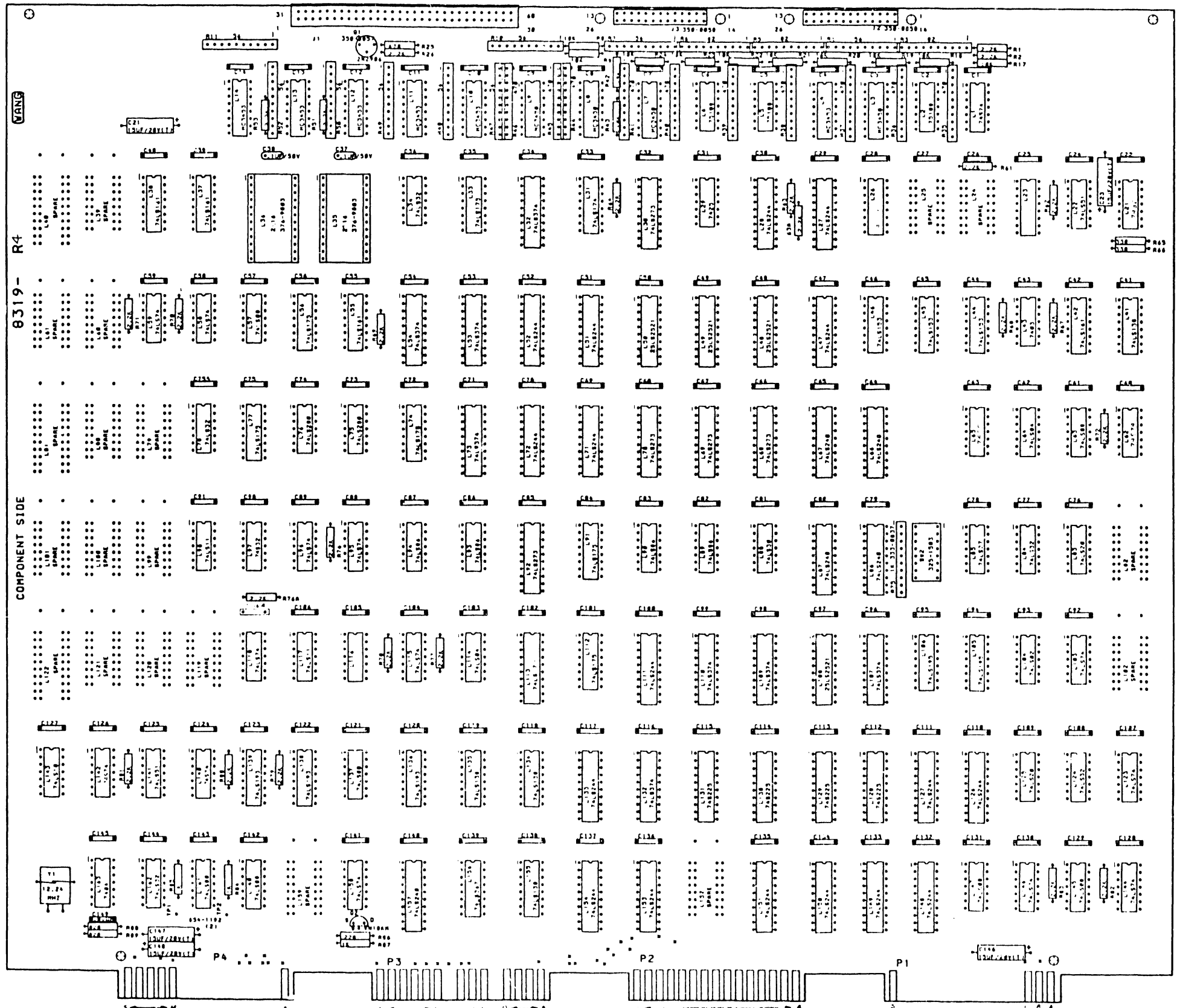
8.5" 11" 17" 22"

8.5" 11" 17" 22"

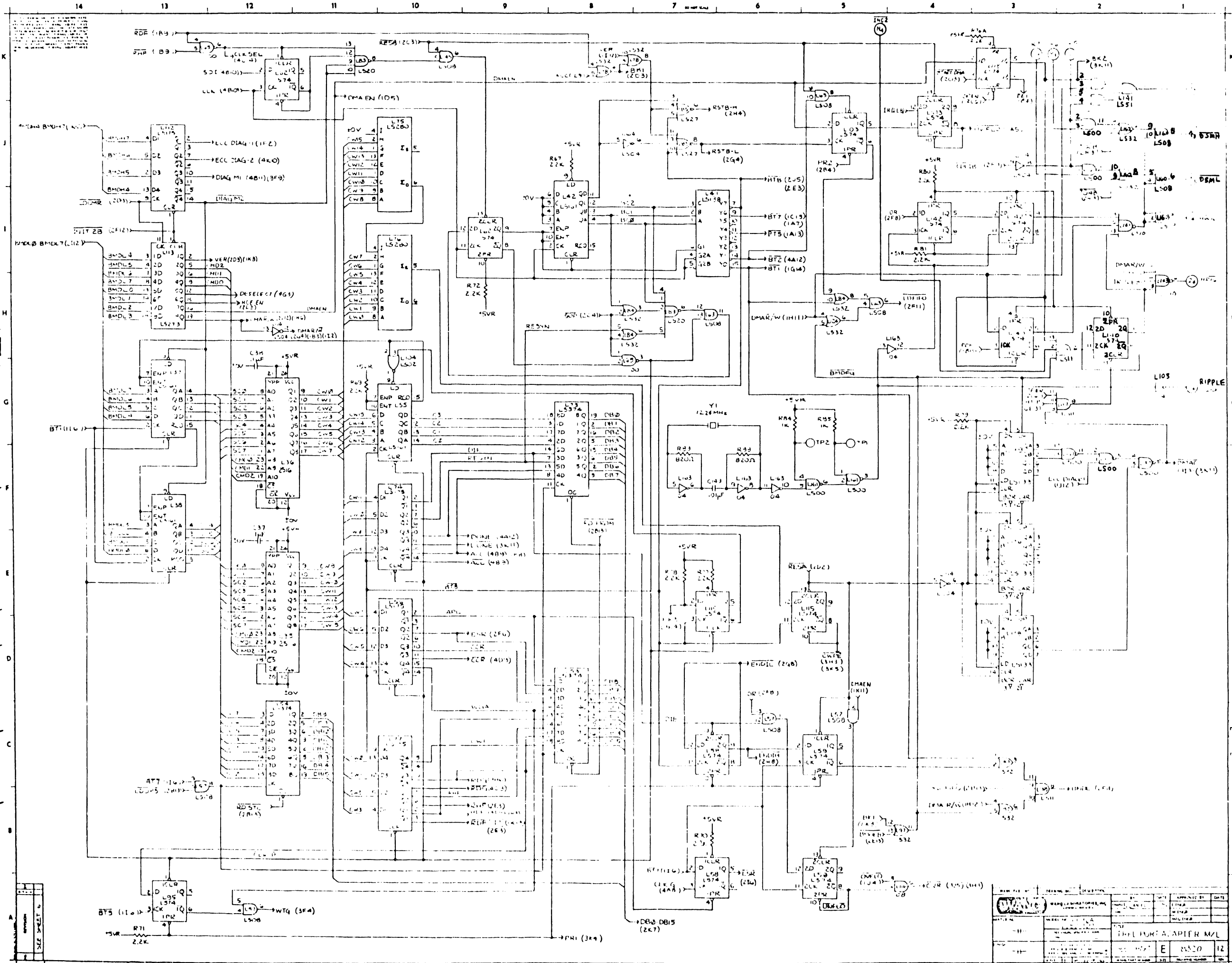
17" 22"

22"

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



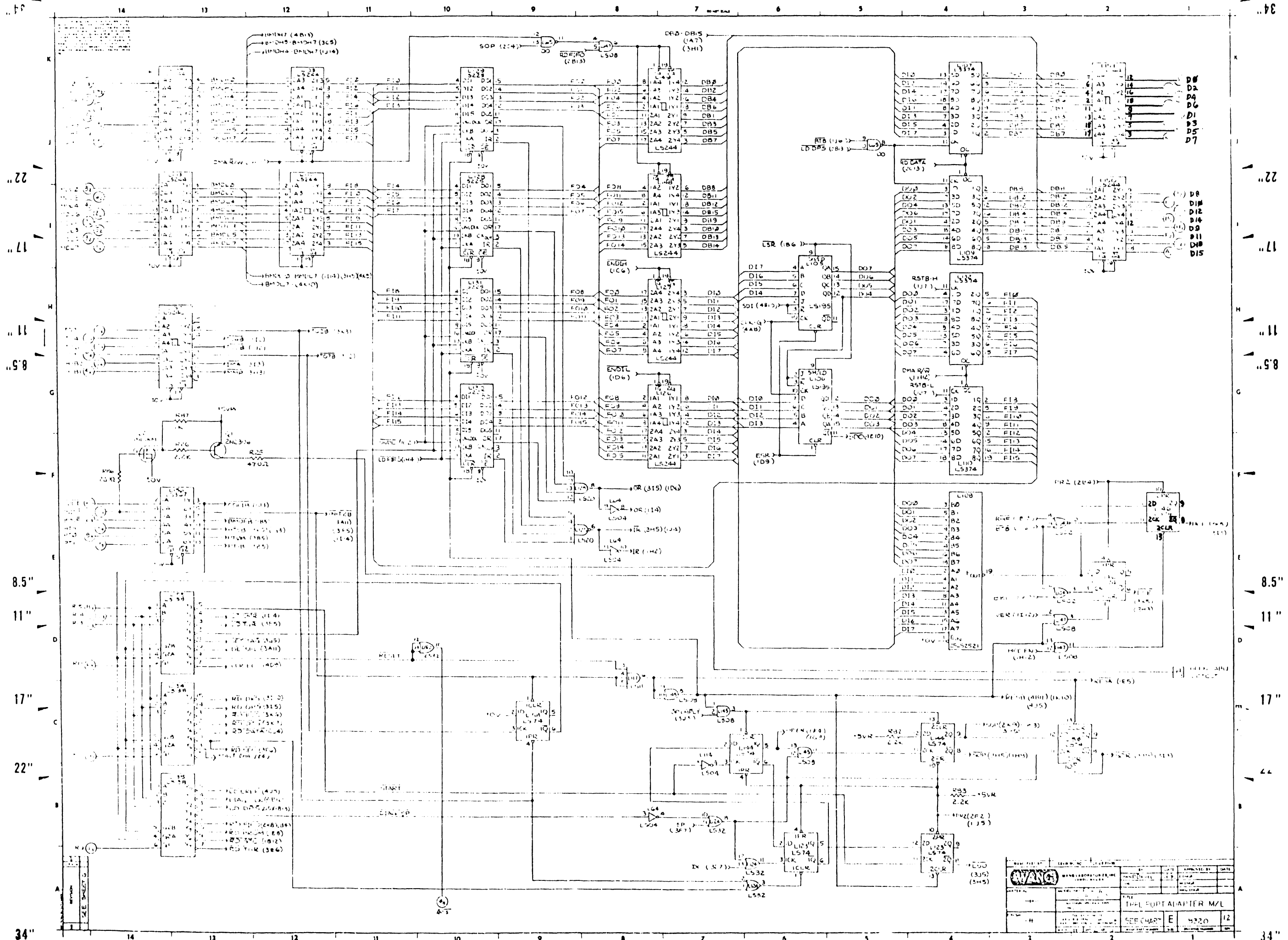
(WANG)		DATE	APPROVED BY	DATE
BY	DESIGNED BY	DATE	REVISION	DATE
CHKD BY	DATE	SPEC. CHART E 14-13 12		



Grid coordinates: 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1 (horizontal axis); K, J, I, H, G, F, E, D, C, B, A (vertical axis). Dimensions: 34", 22", 17", 11", 8.5", 5.8", 4.4", 3.4".

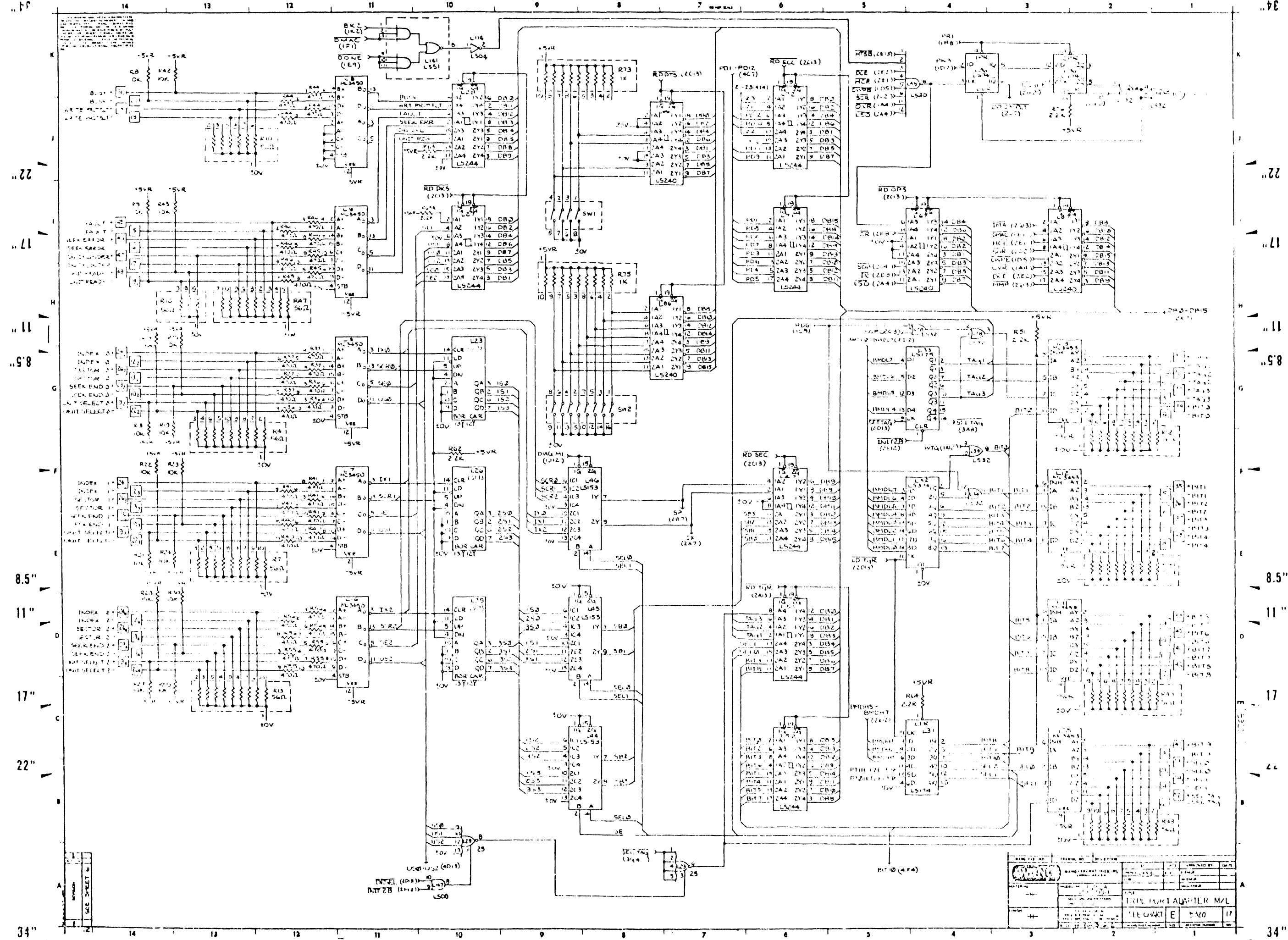
NO.	REVISION	DATE	BY	CHKD
1				
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12				
13				
14				

APPROVED: _____
 DATE: _____
 TITLE: _____



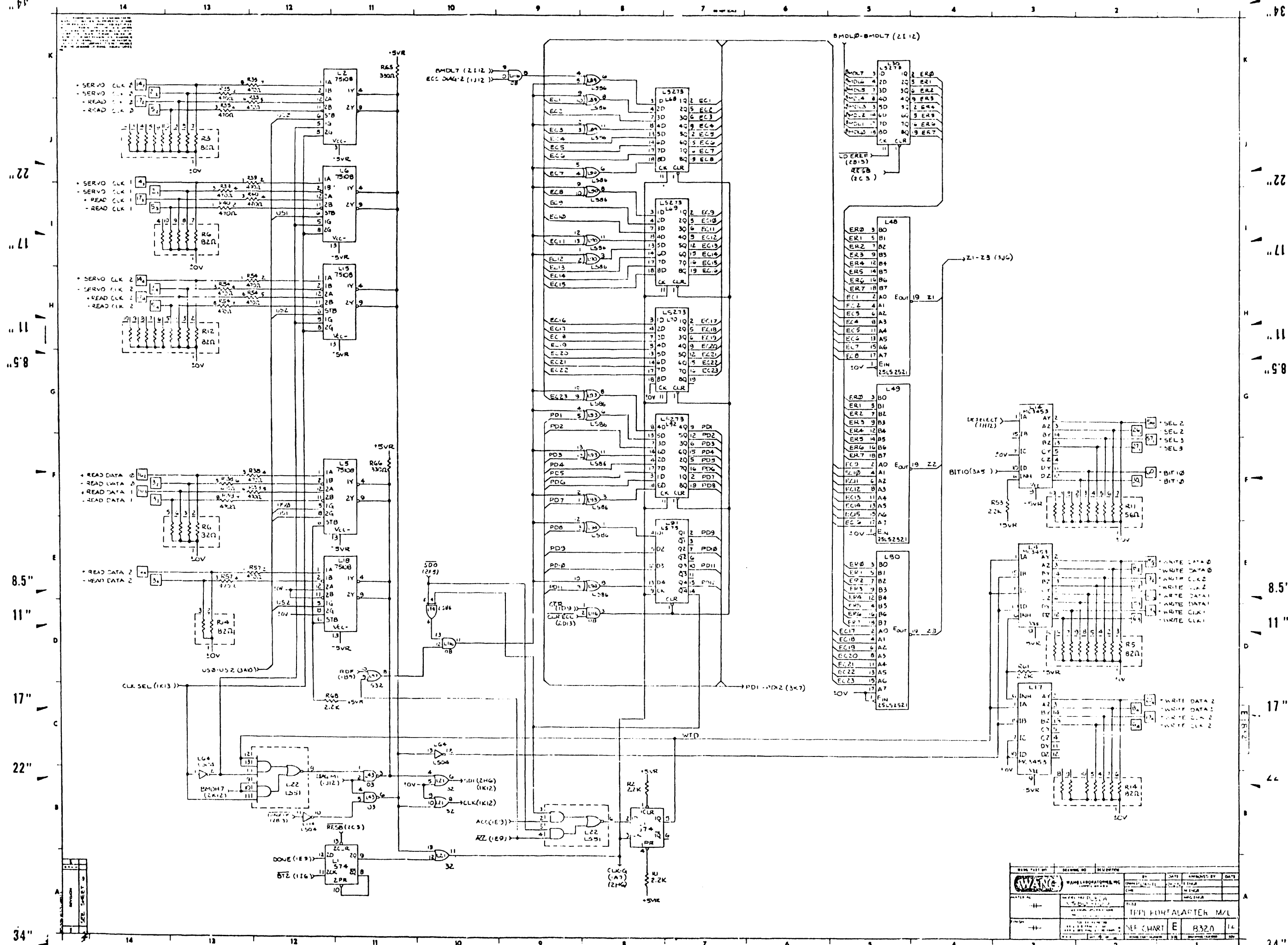
REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR FABRICATION	11/15/58	W. J.
2
3
4
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PROJECT	FUEL PORT ADAPTER M/L
DATE	11/15/58
BY	W. J. ...
CHKD	...
APP'D	...
REV	...
DESCRIPTION	...
DATE	...
BY	...
CHKD	...
APP'D	...

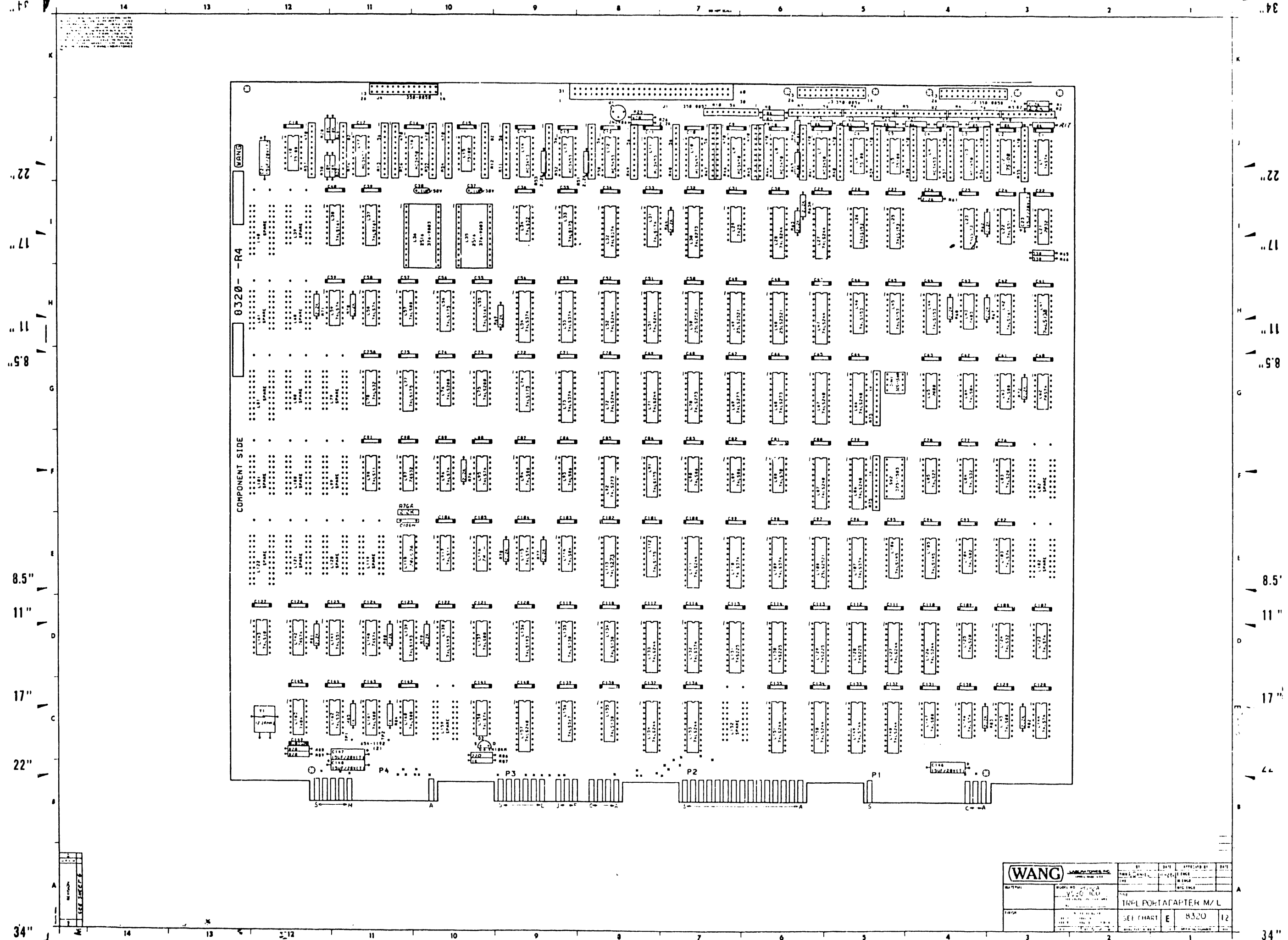


REVISION	DESCRIPTION	DATE	BY
1	ISSUED BY		
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
9	REVISION		
10	REVISION		
11	REVISION		
12	REVISION		
13	REVISION		
14	REVISION		

TRIP FOR TOWER M/L
E 520 17



REV	DATE	BY	CHKD	APPROVED BY	DATE
1					
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REV	DATE	BY	DESCRIPTION
1			

WANG		DATE	APPROVED BY	DATE
REV	DESCRIPTION	BY	DATE	
1	TRPL PORTADAPTER M/L			
SEE CHART	E	8320	12	

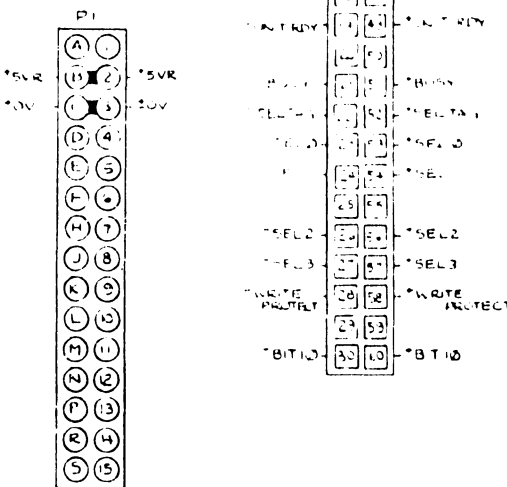
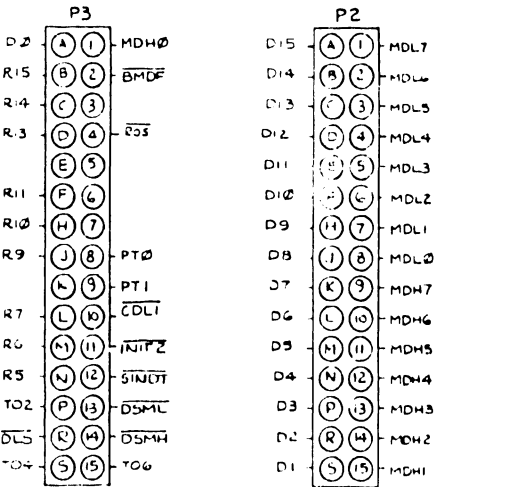
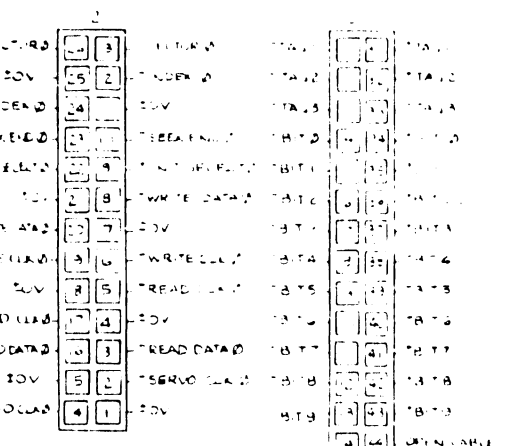
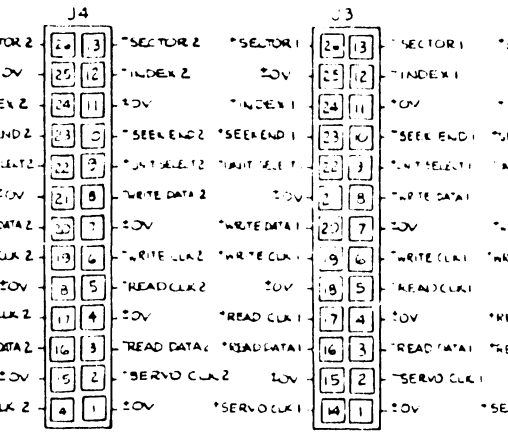
PART NO.	QTY	DESCRIPTION
74-5232	1	RESISTOR
74-5233	1	RESISTOR
74-5234	1	RESISTOR
74-5235	1	RESISTOR
74-5236	1	RESISTOR
74-5237	1	RESISTOR
74-5238	1	RESISTOR
74-5239	1	RESISTOR
74-5240	1	RESISTOR
74-5241	1	RESISTOR
74-5242	1	RESISTOR
74-5243	1	RESISTOR
74-5244	1	RESISTOR
74-5245	1	RESISTOR
74-5246	1	RESISTOR
74-5247	1	RESISTOR
74-5248	1	RESISTOR
74-5249	1	RESISTOR
74-5250	1	RESISTOR
74-5251	1	RESISTOR
74-5252	1	RESISTOR
74-5253	1	RESISTOR
74-5254	1	RESISTOR
74-5255	1	RESISTOR
74-5256	1	RESISTOR
74-5257	1	RESISTOR
74-5258	1	RESISTOR
74-5259	1	RESISTOR
74-5260	1	RESISTOR
74-5261	1	RESISTOR
74-5262	1	RESISTOR
74-5263	1	RESISTOR
74-5264	1	RESISTOR
74-5265	1	RESISTOR
74-5266	1	RESISTOR
74-5267	1	RESISTOR
74-5268	1	RESISTOR
74-5269	1	RESISTOR
74-5270	1	RESISTOR
74-5271	1	RESISTOR
74-5272	1	RESISTOR
74-5273	1	RESISTOR
74-5274	1	RESISTOR
74-5275	1	RESISTOR
74-5276	1	RESISTOR
74-5277	1	RESISTOR
74-5278	1	RESISTOR
74-5279	1	RESISTOR
74-5280	1	RESISTOR
74-5281	1	RESISTOR
74-5282	1	RESISTOR
74-5283	1	RESISTOR
74-5284	1	RESISTOR
74-5285	1	RESISTOR
74-5286	1	RESISTOR
74-5287	1	RESISTOR
74-5288	1	RESISTOR
74-5289	1	RESISTOR
74-5290	1	RESISTOR
74-5291	1	RESISTOR
74-5292	1	RESISTOR
74-5293	1	RESISTOR
74-5294	1	RESISTOR
74-5295	1	RESISTOR
74-5296	1	RESISTOR
74-5297	1	RESISTOR
74-5298	1	RESISTOR
74-5299	1	RESISTOR
74-5300	1	RESISTOR

COMPONENT	TYPE	PART NO.
C1-18	22.24	300-1066
C2	22.24	300-1066
C3	22.24	300-1066
C4	22.24	300-1066
C5	22.24	300-1066
C6	22.24	300-1066
C7	22.24	300-1066
C8	22.24	300-1066
C9	22.24	300-1066
C10	22.24	300-1066
C11	22.24	300-1066
C12	22.24	300-1066
C13	22.24	300-1066
C14	22.24	300-1066
C15	22.24	300-1066
C16	22.24	300-1066
C17	22.24	300-1066
C18	22.24	300-1066
C19	22.24	300-1066
C20	22.24	300-1066
C21	22.24	300-1066
C22	22.24	300-1066
C23	22.24	300-1066
C24	22.24	300-1066
C25	22.24	300-1066
C26	22.24	300-1066
C27	22.24	300-1066
C28	22.24	300-1066
C29	22.24	300-1066
C30	22.24	300-1066
C31	22.24	300-1066
C32	22.24	300-1066
C33	22.24	300-1066
C34	22.24	300-1066
C35	22.24	300-1066
C36	22.24	300-1066
C37	22.24	300-1066
C38	22.24	300-1066
C39	22.24	300-1066
C40	22.24	300-1066
C41	22.24	300-1066
C42	22.24	300-1066
C43	22.24	300-1066
C44	22.24	300-1066
C45	22.24	300-1066
C46	22.24	300-1066
C47	22.24	300-1066
C48	22.24	300-1066
C49	22.24	300-1066
C50	22.24	300-1066
C51	22.24	300-1066
C52	22.24	300-1066
C53	22.24	300-1066
C54	22.24	300-1066
C55	22.24	300-1066
C56	22.24	300-1066
C57	22.24	300-1066
C58	22.24	300-1066
C59	22.24	300-1066
C60	22.24	300-1066

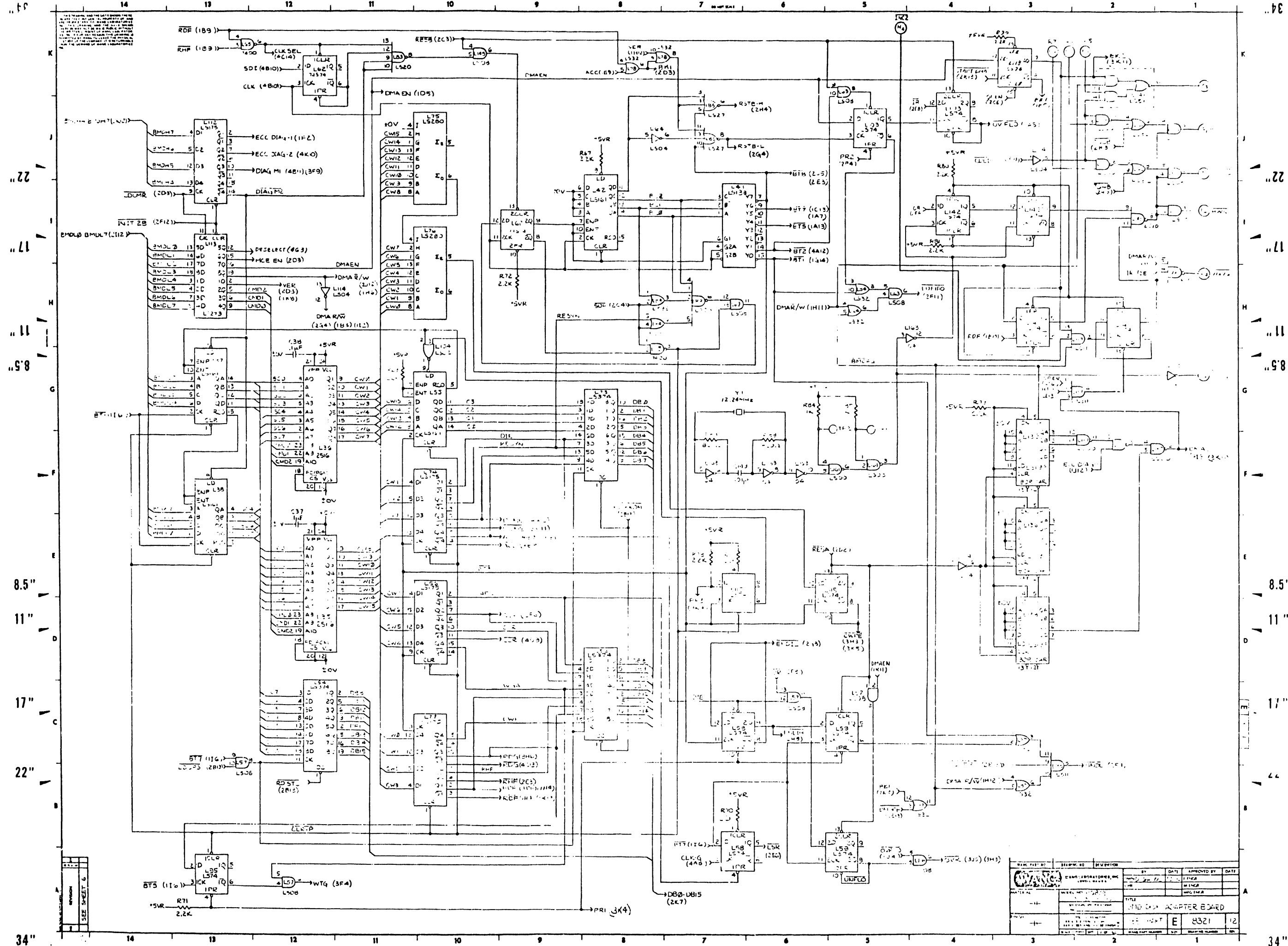
MINIMUMS	COORD
INIT INTN	3G1
INIT AIFR	3G1
INIT 2	4F1
INIT 3	4F1
INIT 4	2E4
INIT 5	3K4
INIT 6	3J14
INIT 7	
INIT 8	
INIT 9	
INIT 10	
INIT 11	
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INIT 93	
INIT 94	
INIT 95	
INIT 96	
INIT 97	
INIT 98	
INIT 99	
INIT 100	

MINIMUMS	COORD
WRITE INTN	3G1
WRITE AIFR	3G1
WRITE 2	4F1
WRITE 3	4F1
WRITE 4	2E4
WRITE 5	3K4
WRITE 6	3J14
WRITE 7	
WRITE 8	
WRITE 9	
WRITE 10	
WRITE 11	
WRITE 12	
WRITE 13	
WRITE 14	
WRITE 15	
WRITE 16	
WRITE 17	
WRITE 18	
WRITE 19	
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WRITE 89	
WRITE 90	
WRITE 91	
WRITE 92	
WRITE 93	
WRITE 94	
WRITE 95	
WRITE 96	
WRITE 97	
WRITE 98	
WRITE 99	
WRITE 100	

MINIMUMS	COORD
SELECT	3B1
SELECT 2	3B1
SELECT 3	4E1
SELECT 4	4E1
SELECT 5	4E1
SELECT 6	4E1
SELECT 7	4E1
SELECT 8	4E1
SELECT 9	4E1
SELECT 10	4E1
SELECT 11	4E1
SELECT 12	4E1
SELECT 13	4E1
SELECT 14	4E1
SELECT 15	4E1
SELECT 16	4E1
SELECT 17	4E1
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SELECT 19	4E1
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SELECT 21	4E1
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SELECT 89	4E1
SELECT 90	4E1
SELECT 91	4E1
SELECT 92	4E1
SELECT 93	4E1
SELECT 94	4E1
SELECT 95	4E1
SELECT 96	4E1
SELECT 97	4E1
SELECT 98	4E1
SELECT 99	4E1
SELECT 100	4E1

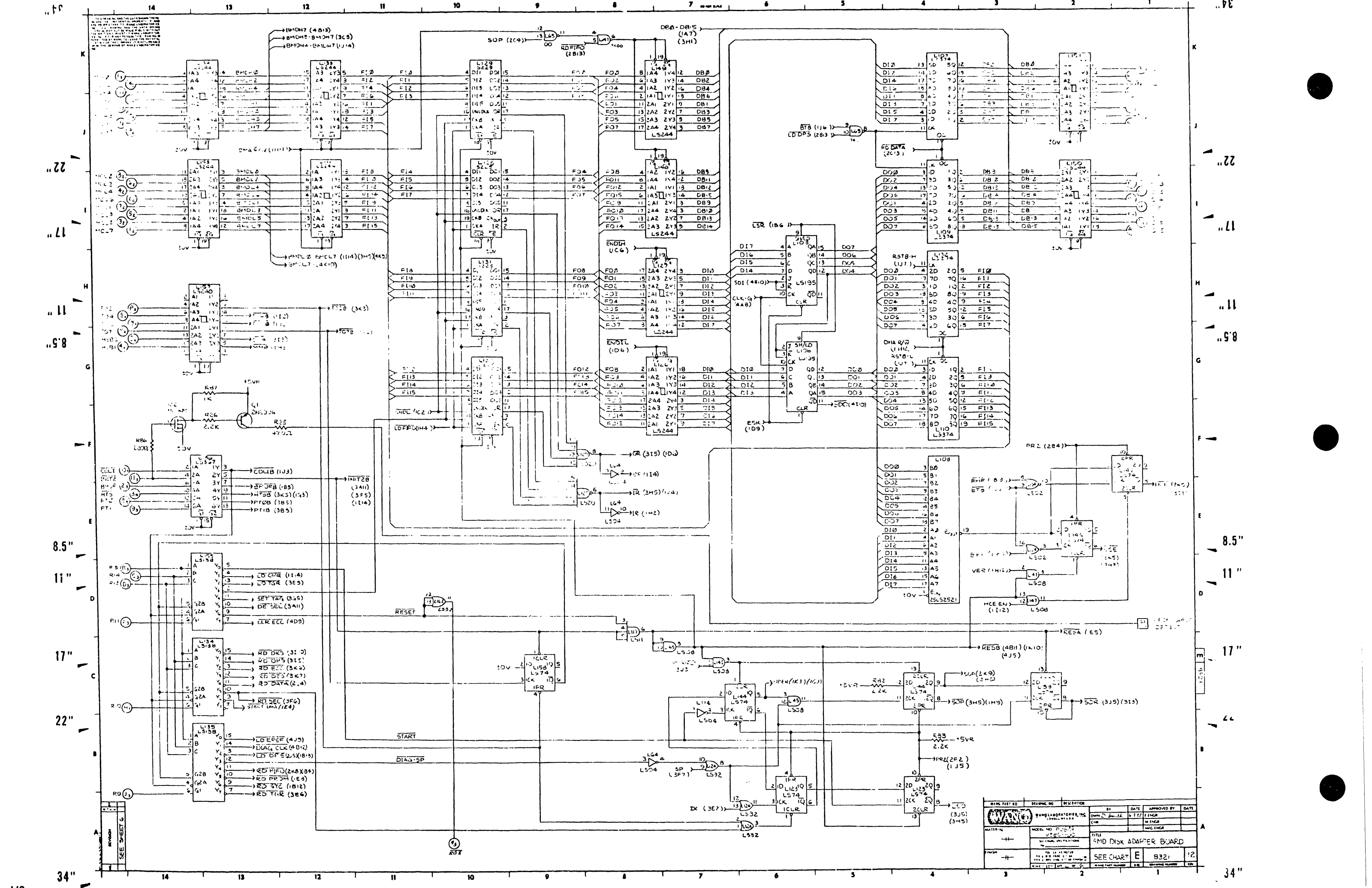


TYPE	LOCATION	SPARES
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74-532	L38	1
74-534	L33	1
74-534	L34	1
74-534	L35	2
74-534	L36	1
74-534	L39	1
74-534	L40	1
74-534	L41	1
74-534	L42	1
74-534	L43	1
74-534	L44	1
74-534	L45	1
74-534	L46	1
74-534	L47	1
74-534	L48	1
74-534	L49	1
74-534	L50	1
74-534	L51	1
74-534	L52	1
74-534	L53	1
74-534	L54	1
74-534	L55	1
74-534	L56	1
74-534	L57	1
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74-534	L60	1
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74-534	L63	1
74-534	L64	1
74-534	L65	1
74-534	L66	1
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74-534	L68	1
74-534	L69	1
74-534	L70	1
74-534	L71	1
74-534	L72	1
74-534	L73	1
74-534	L74	1
74-534	L75	1
74-534	L76	1
74-534	L77	1



REV	DESCRIPTION	DATE	APPROVED BY	DATE
1	ISSUED FOR FABRICATION	11/12/72	W. J. HARRIS	
2	REVISION			
3	REVISION			
4	REVISION			
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49	REVISION			
50	REVISION			

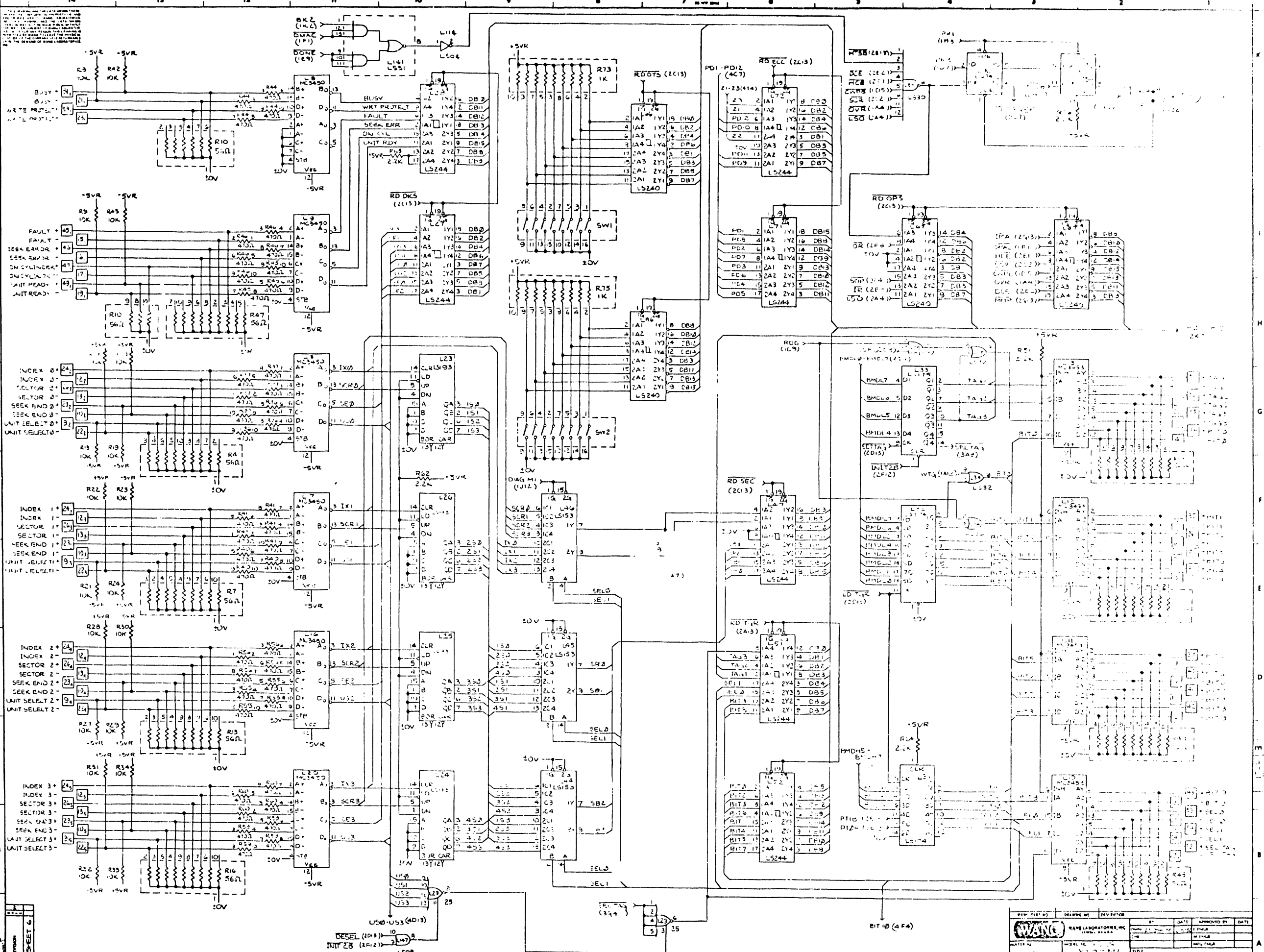
SEE SHEET 6



REV. NO.	REV. DATE	REV. DESCRIPTION
1	11/12/81	INITIAL DESIGN
2	12/15/81	REVISED FOR MANUFACTURING
3	01/10/82	REVISED FOR COST REDUCTION
4	02/05/82	REVISED FOR COMPONENT AVAILABILITY
5	03/01/82	REVISED FOR BOARD LAYOUT
6	04/01/82	REVISED FOR FINAL PRODUCTION

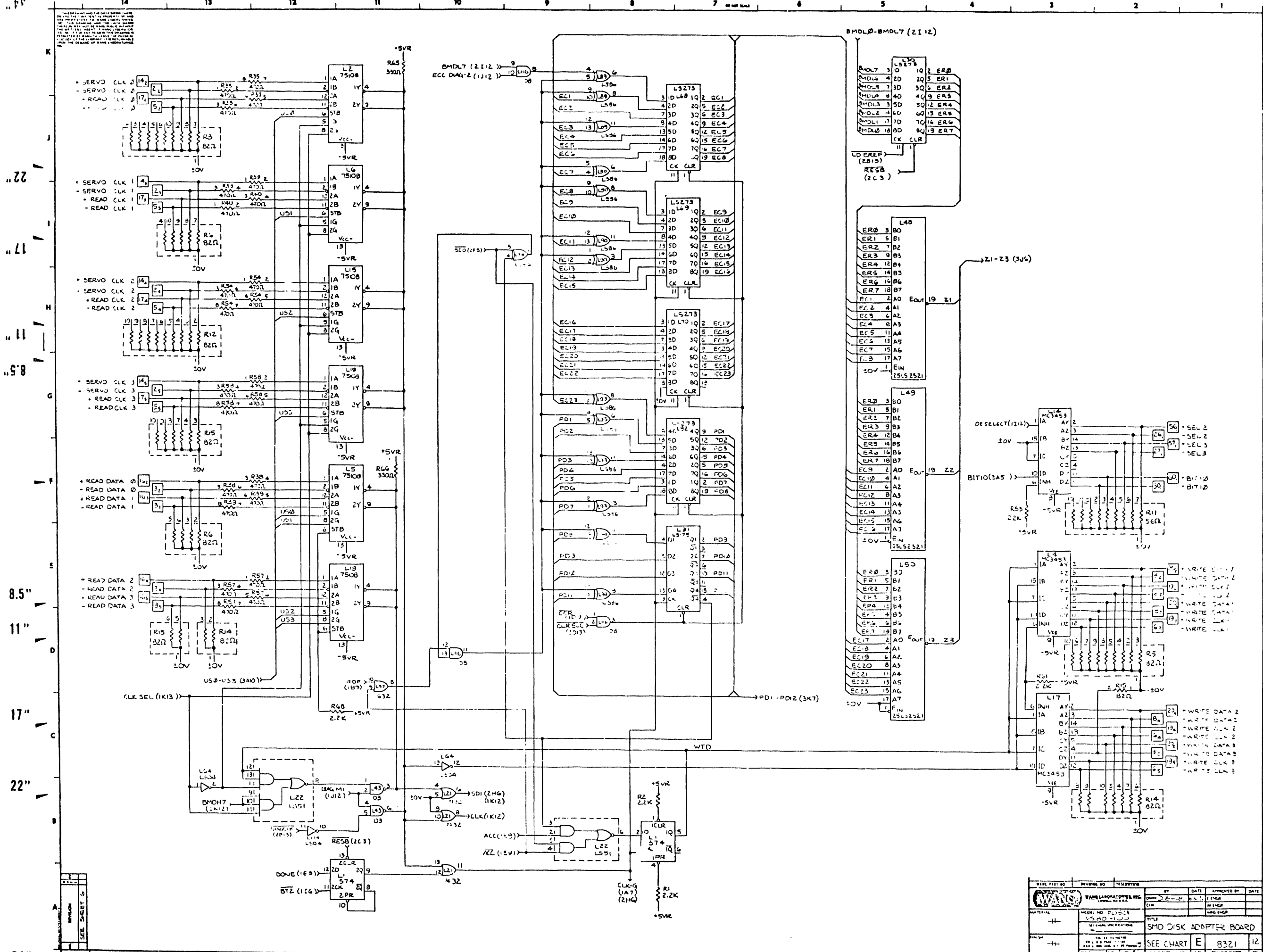
DATE	BY	APPROVED BY
11/12/81	CHEN	CHEN
12/15/81	CHEN	CHEN
01/10/82	CHEN	CHEN
02/05/82	CHEN	CHEN
03/01/82	CHEN	CHEN
04/01/82	CHEN	CHEN

DATE	BY	APPROVED BY
11/12/81	CHEN	CHEN
12/15/81	CHEN	CHEN
01/10/82	CHEN	CHEN
02/05/82	CHEN	CHEN
03/01/82	CHEN	CHEN
04/01/82	CHEN	CHEN

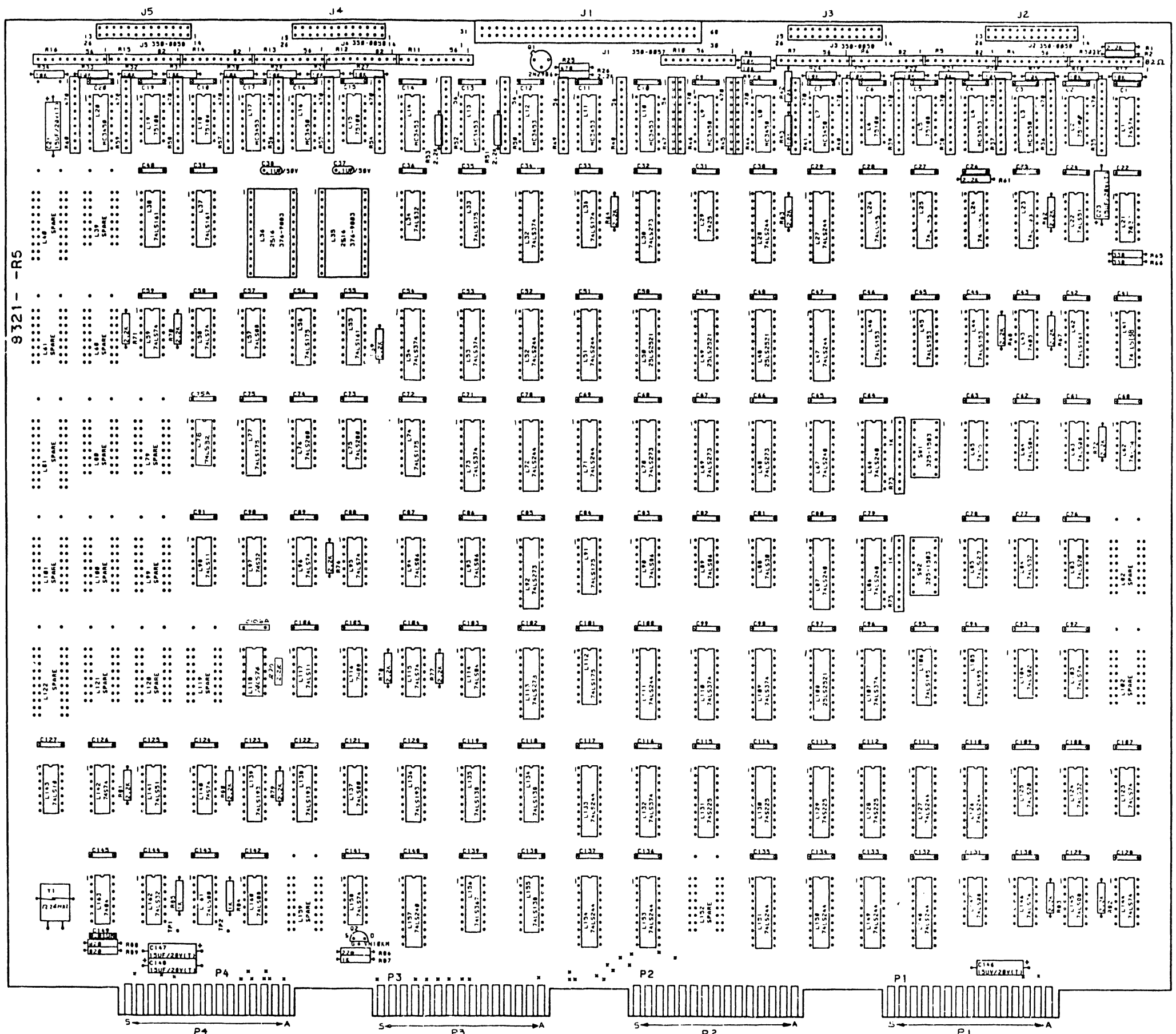


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DATE	BY	CHKD	APP'D
8-21-77	J. L. HENRICH	J. L. HENRICH	J. L. HENRICH
TITLE: SMD DISK ADAPTER BOARD			
PART NO: 8321			
REV: 1.0			
SEE CHART: E			
SHEET: 1 OF 2			



8321 - R5

SEE SHEET 6

(WANG)		DATE	APPROVED BY	DATE
PROJECT NO. 8321		DESIGNED BY	CHECKED BY	
TITLE		DRAWN BY	DATE	
SMD DISK ADAPTER BOARD				
SEECHART	E	8321	12	

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

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

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

Table with columns: LOCATION, TYPE, WL PART NO, COMPONENT, TYPE, WL PART NO.

Table with columns: PHONONICS, COORD, and various component labels like *INDEX 3, *INDEX 2, etc.

Table with columns: PHONONICS, COORD, and various component labels like *INDEX 3, *INDEX 2, etc.

Table with columns: PHONONICS, COORD, and various component labels like *INDEX 3, *INDEX 2, etc.

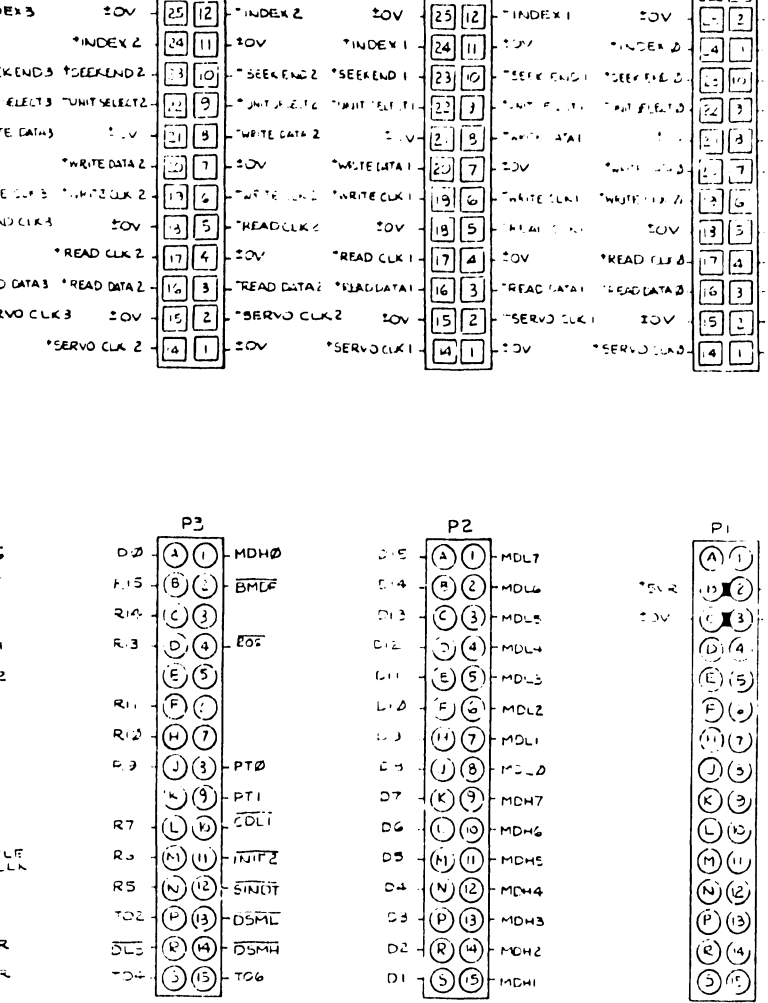
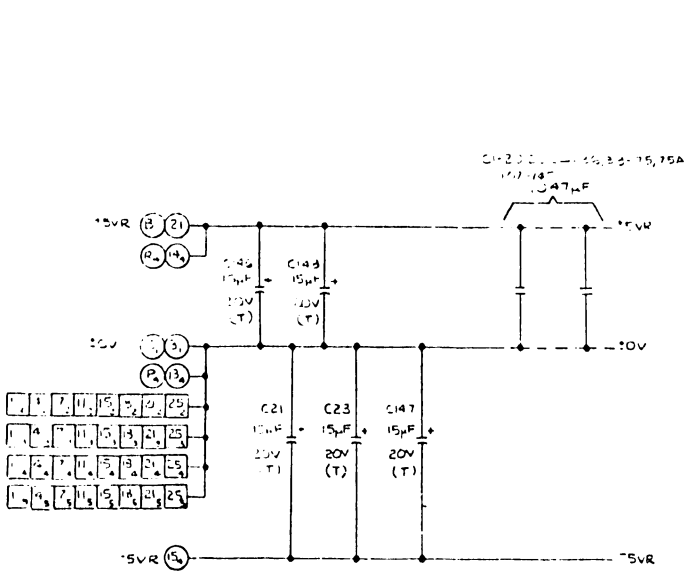


Table with columns: PHONONICS, COORD, and various component labels like *INDEX 3, *INDEX 2, etc.



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

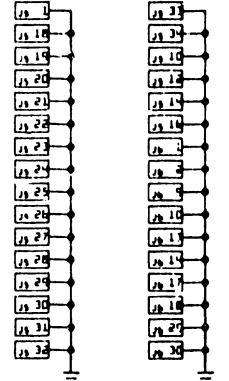
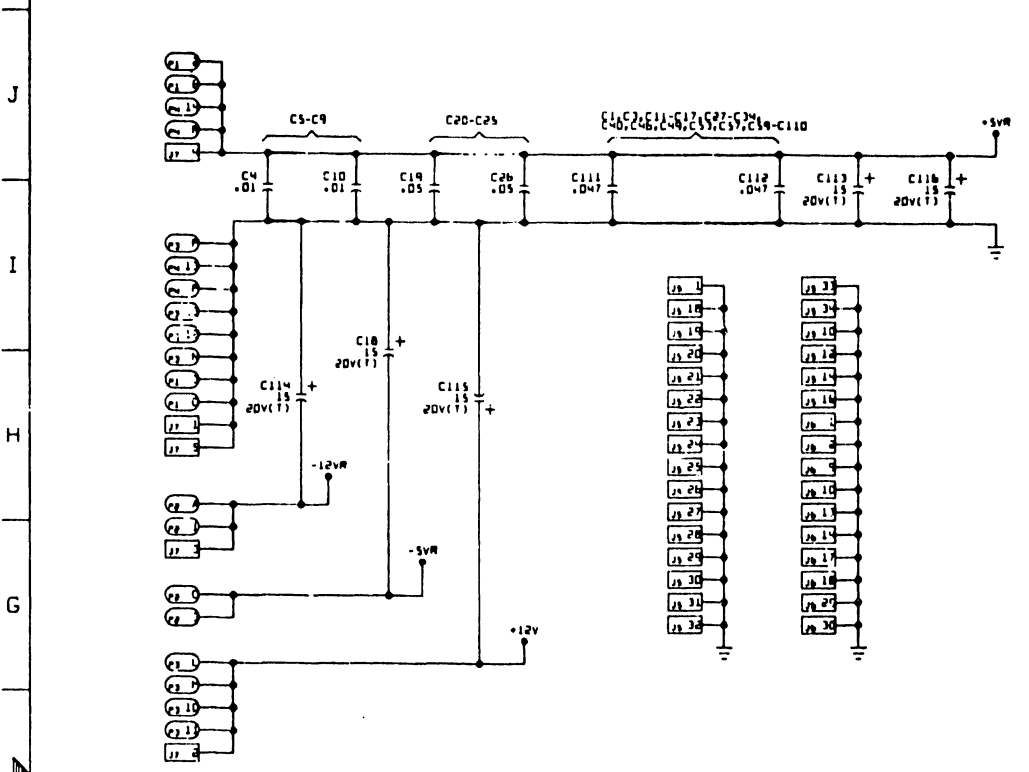
Table with columns: WORK ORDER, REVISION, DESCRIPTION, BY, DATE, APPROVED BY, DATE.

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

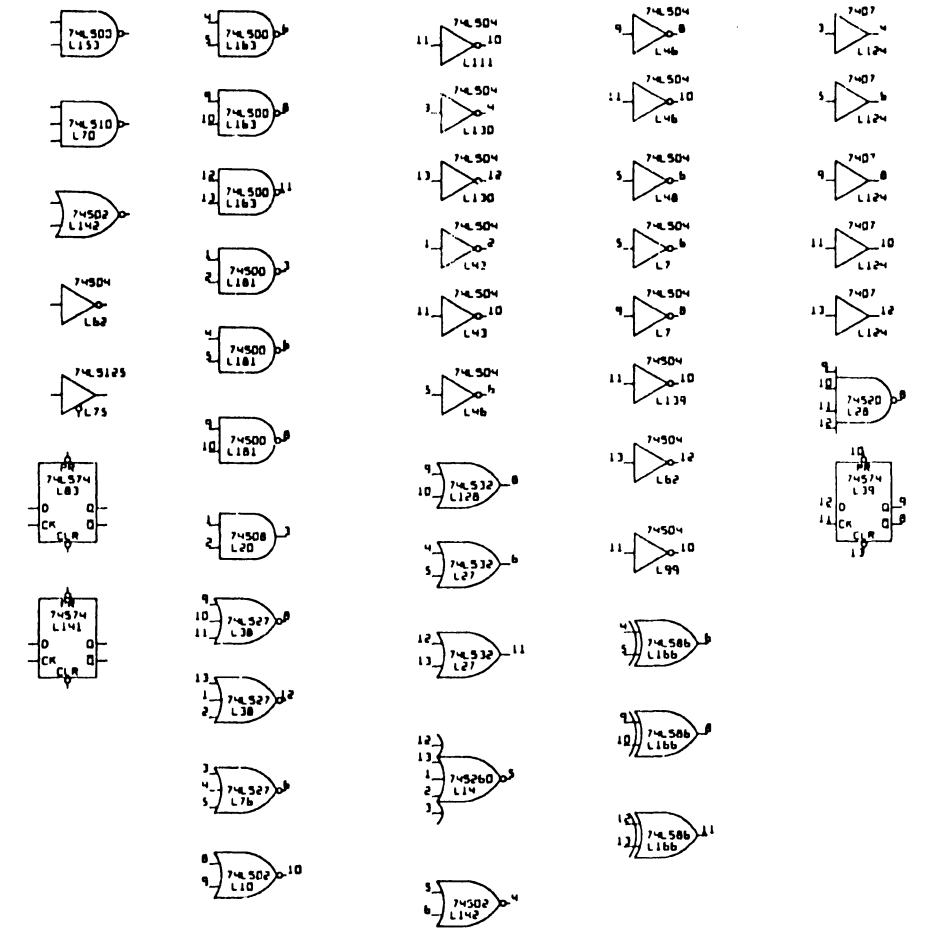
1. ALL RESISTOR VALUES IN OHMS.
2. ALL CAPACITOR VALUES IN MICROFARADS
UNLESS OTHERWISE INDICATED.
3. ALL RESISTORS 1/4W 5%
UNLESS OTHERWISE INDICATED.

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.



SPARES



PHONIC	LOCATION
APP2-ARD	SK9
APP2-ARITE	SK8
1A	BB11
1B	BB11
2A	BB11
2B	BB11
3A	BB11
3B	BB11
4A	BB11
4B	BB11
5A1	SI14
5A2	SI14
5A3	SI14
5A4	SI14
5A5	SI14
5A6	SI14
5A7	SI14
5A8	SK8
5A9	SG14
5A10	SG14
CH0	B11
CH1	B11
CH2	B11
CH3	B11
C15	BA7
C15	BA7
DC0	L47
DC0	BA8
CHAPPT	SK7
CHST	J11
LDD0	SO1
LDB1	SO2
LDB2	SO3
LDB3	SO2
LDB4	SO3
LDB5	SO2
LDB6	SK2

PHONIC	LOCATION
LDB7	SK2
LDB8	SK2
LDB9	SK2
LDB10	SK2
LDB11	SK2
LDB12	SK2
LDB13	SK2
LDB14	SK2
LDB15	SK2
LDB16	SK14
LDB17	SK14
LDB18	SK14
LDB19	SK14
LDB20	SK14
LDB21	SK14
LDB22	SK14
LDB23	SK14
LDB24	SK14
LDB25	SK14
RS1	SK1
RS2	SK1
RS3	SK1
RS4	SK1
RS5	SK1
RS6	SK1
RS7	SK1
RS8	SK1
RS9	SK1
RS10	SK1
RS11	SK1
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RS15	SK1
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RS17	SK1
RS18	SK1
RS19	SK1
RS20	SK1
RS21	SK1
RS22	SK1
RS23	SK1
RS24	SK1
RS25	SK1

NO	REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1		10-15-62	JSM			
2		12-8-62	PGD			
3		3-16-63	OSS			
4		5-20-63	BN			
5		5-27-63	BN			
6		9-25-63	PGD			
7		1-24-64	KTH			
8		3-29-64	KTH			

210	209	L103	210-209 + 377 ON 370	L162	L53-61	L53,77	L21,213	L112,114	L81
8369A	8369	378-9021-N3	DO MGT LOAD	377-0417	377-0411	377-0403	377-0371	377-0368	

WANG LABORATORIES, INC.

SCHMATIC DIAGRAM

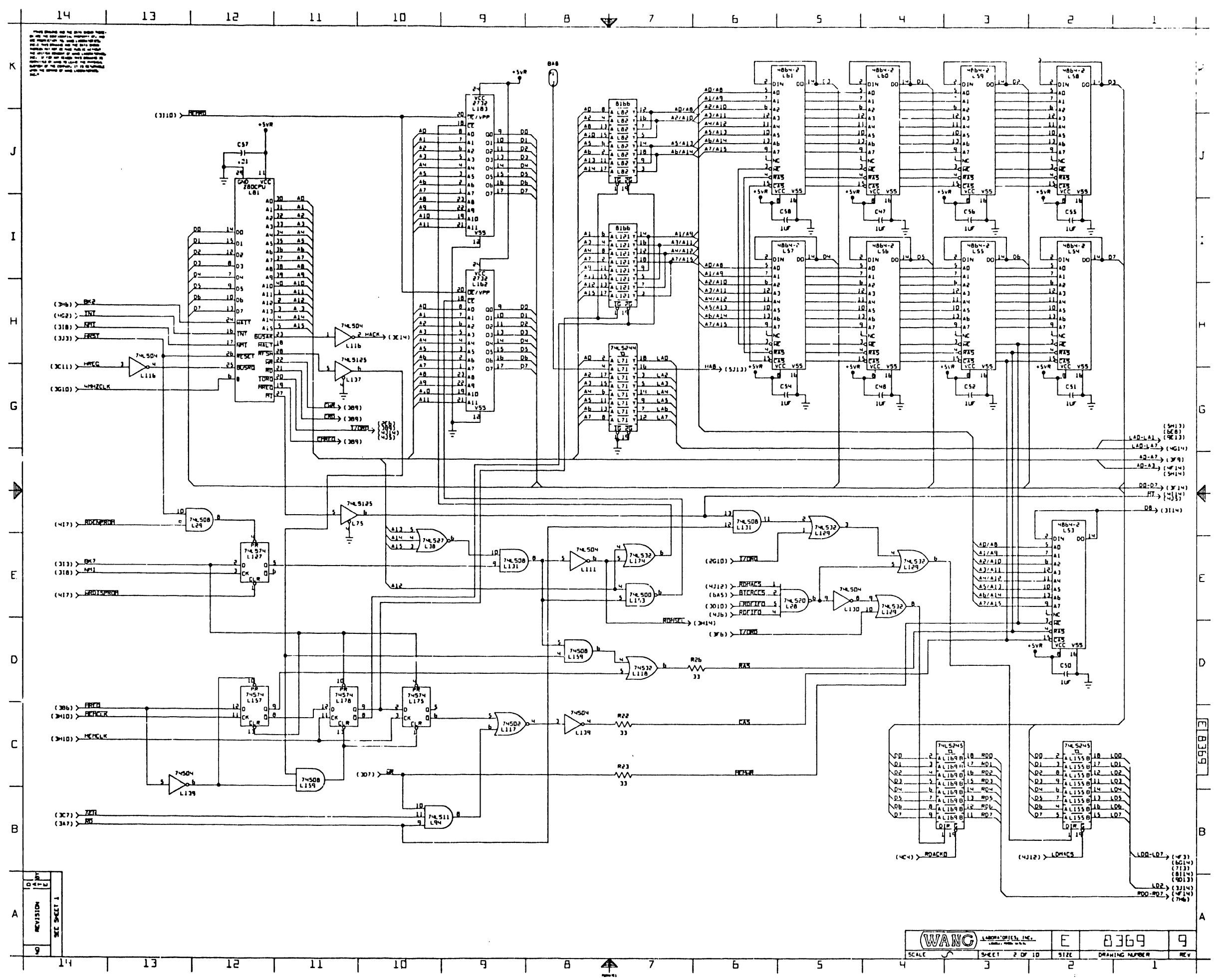
TITLE: 928W LINK

DATE: VS/80/100

SCALE: SHEET 1 OF 10

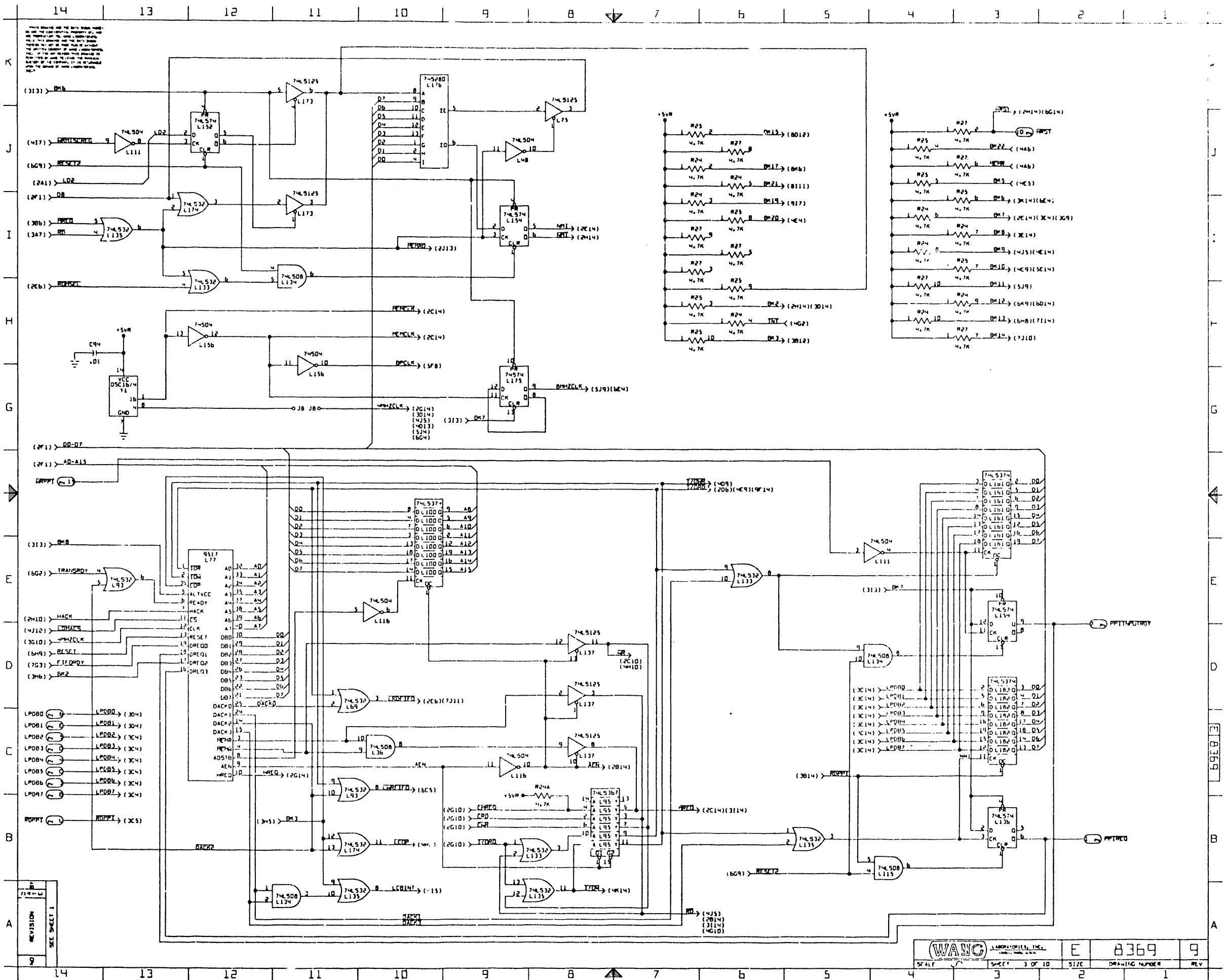
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REV: 9

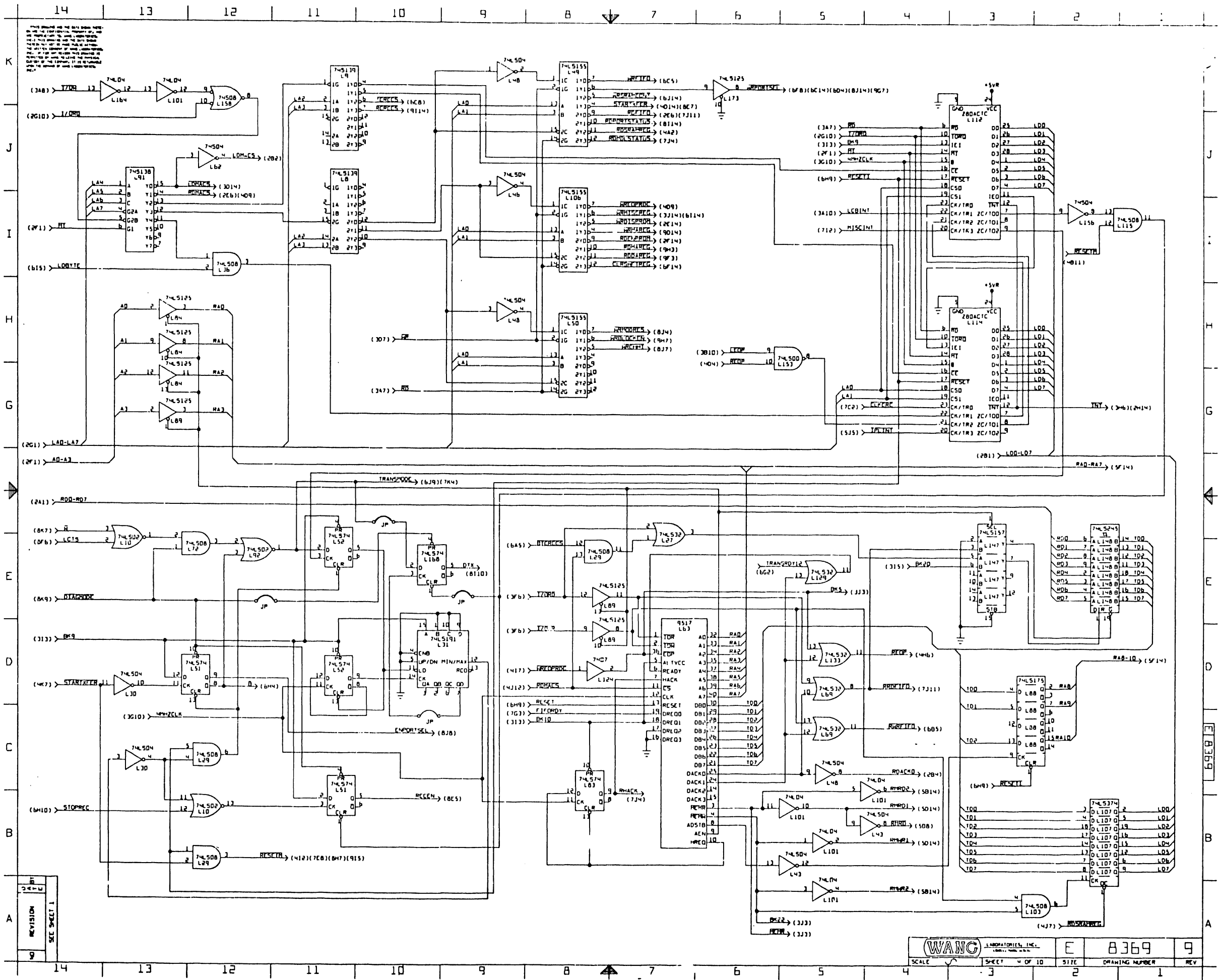


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NO.	REVISION	DATE	BY	CHKD.

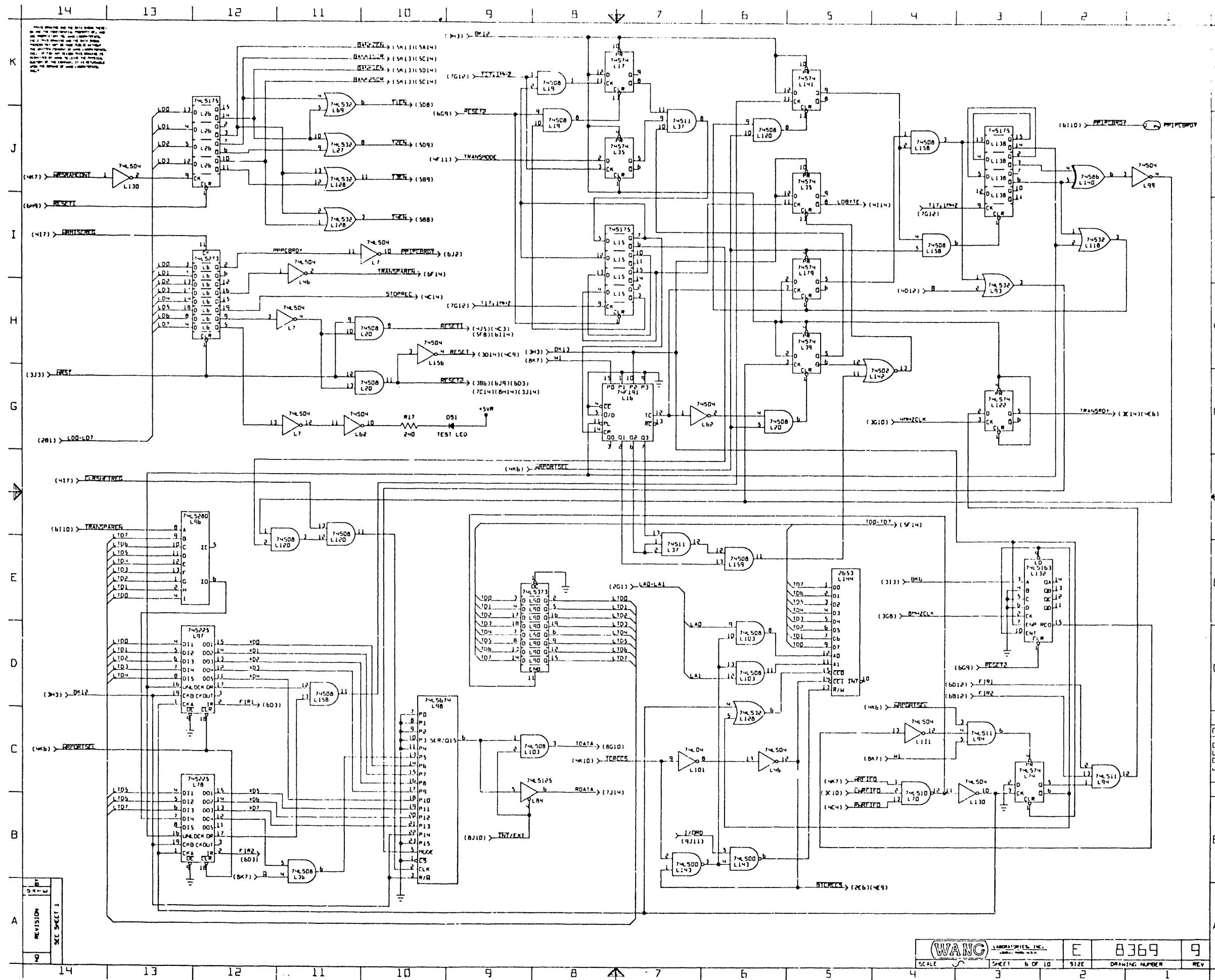


NOTES: 1. THIS SHEET IS ONE OF THE TOTAL SHEETS OF THE SYSTEM. THE OTHER SHEETS ARE SHEETS 1-13, 15-17, 19-21, 23-25, 27-29, 31-33, 35-37, 39-41, 43-45, 47-49, 51-53, 55-57, 59-61, 63-65, 67-69, 71-73, 75-77, 79-81, 83-85, 87-89, 91-93, 95-97, 99-101, 103-105, 107-109, 111-113, 115-117, 119-121, 123-125, 127-129, 131-133, 135-137, 139-141, 143-145, 147-149, 151-153, 155-157, 159-161, 163-165, 167-169, 171-173, 175-177, 179-181, 183-185, 187-189, 191-193, 195-197, 199-201, 203-205, 207-209, 211-213, 215-217, 219-221, 223-225, 227-229, 231-233, 235-237, 239-241, 243-245, 247-249, 251-253, 255-257, 259-261, 263-265, 267-269, 271-273, 275-277, 279-281, 283-285, 287-289, 291-293, 295-297, 299-301, 303-305, 307-309, 311-313, 315-317, 319-321, 323-325, 327-329, 331-333, 335-337, 339-341, 343-345, 347-349, 351-353, 355-357, 359-361, 363-365, 367-369, 371-373, 375-377, 379-381, 383-385, 387-389, 391-393, 395-397, 399-401, 403-405, 407-409, 411-413, 415-417, 419-421, 423-425, 427-429, 431-433, 435-437, 439-441, 443-445, 447-449, 451-453, 455-457, 459-461, 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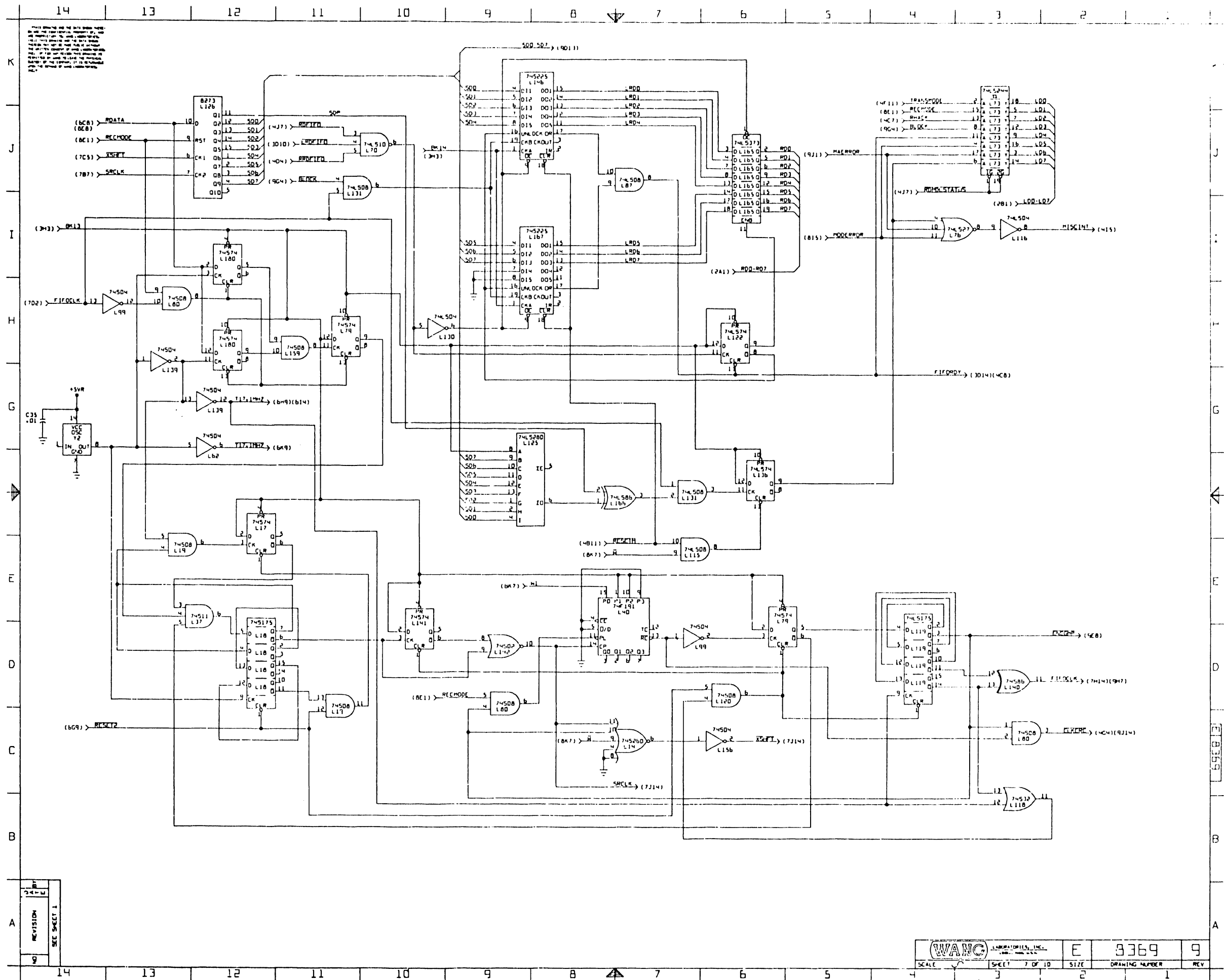


720AC/IC AND THE DATA BUS...
 THE 720AC/IC IS A MICROPROCESSOR...
 THE DATA BUS IS A 16-BIT BUS...
 THE ADDRESS BUS IS A 20-BIT BUS...
 THE CONTROL SIGNALS ARE...
 RD (READ), WR (WRITE), RESET (RESET),...
 THE 720AC/IC IS POWERED BY A +5V SUPPLY...
 THE 720AC/IC IS CONNECTED TO A 745134 (3-TO-8 DECODER)...

REV	DESCRIPTION
1	ISSUED



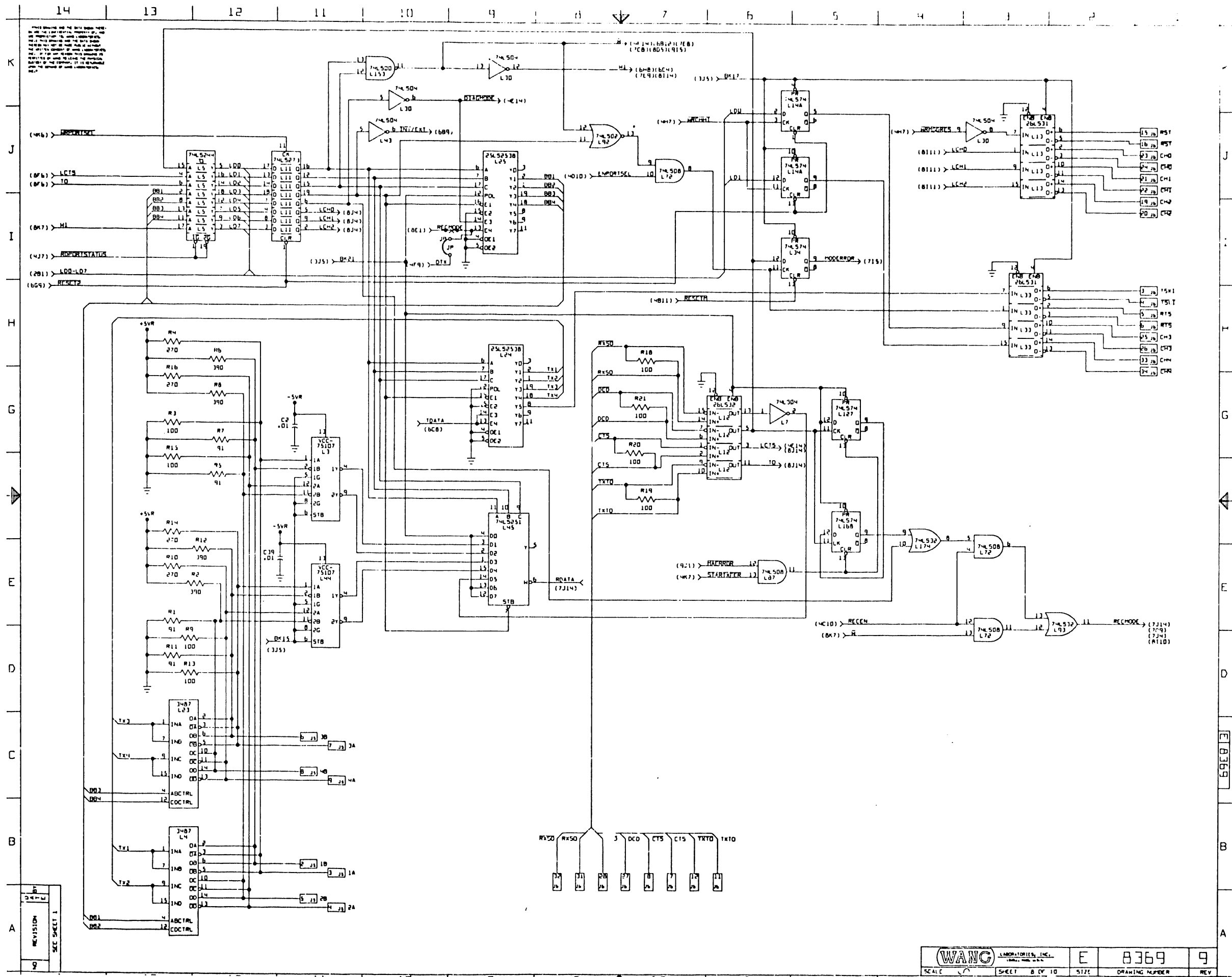
NO	REVISION	DATE	BY
1			



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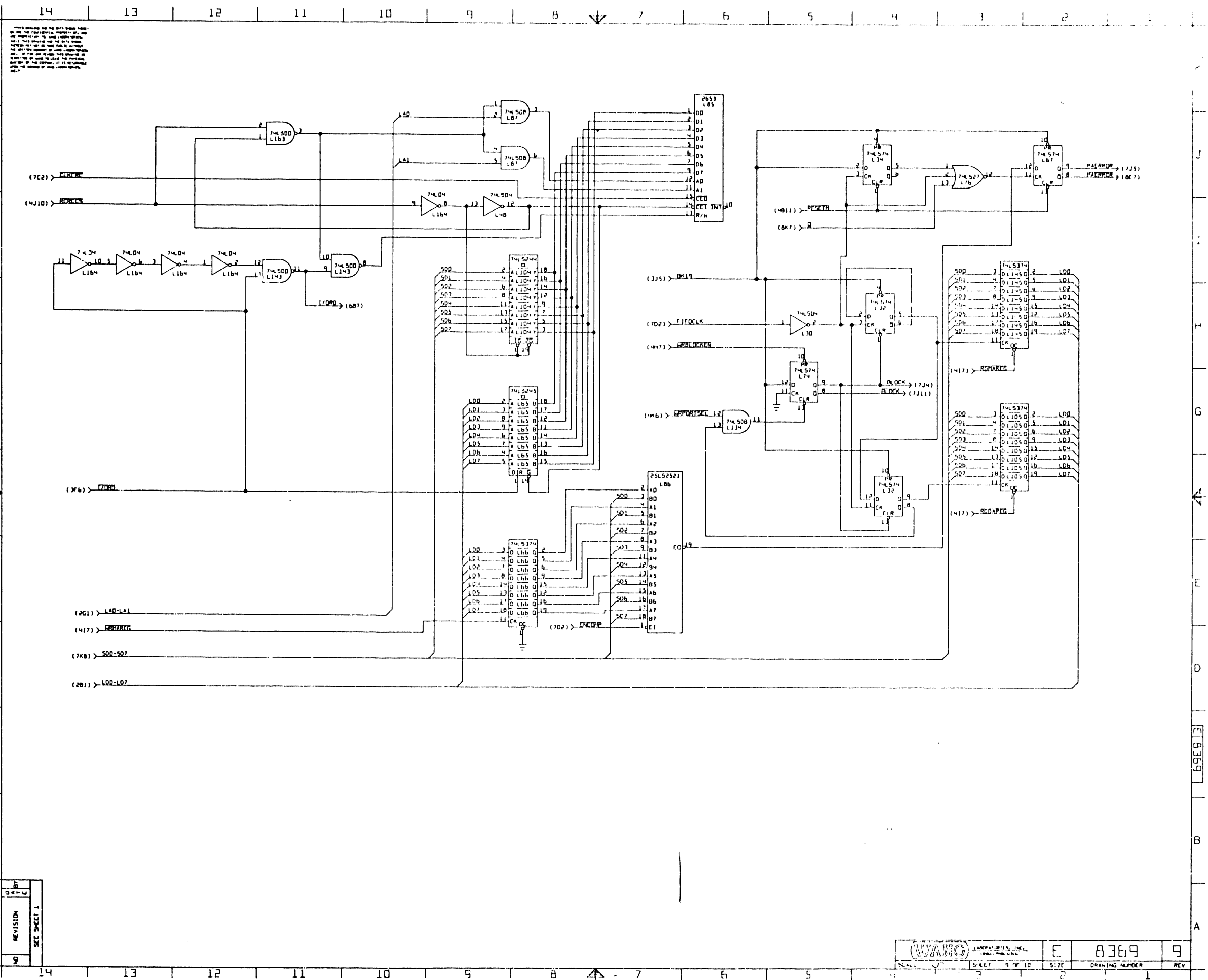
REV	DATE	BY
9		
REVISION		
SEE SHEET 1		

WANG LABORATORIES, INC.	E	3369	9
SCALE	SHEET 7 OF 10	SIZE	DRAWING NUMBER
			REV



NOTE: This drawing and the data sheet notes are for the 74LS series of IC's. They are not to be used for the 74 series of IC's. The 74 series of IC's is obsolete and will be replaced by the 74LS series of IC's. The 74 series of IC's is obsolete and will be replaced by the 74LS series of IC's. The 74 series of IC's is obsolete and will be replaced by the 74LS series of IC's.

REVISION	SHEET 1 OF 1
9	



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J
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G
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C
B
A

ITEM	REFERENCE DESIGNATOR	DESCRIPTION	WANG PART NO	QTY
1	L1, 4, 2, 4, 7, 6, 8, 14	74LS157	376-0216	7
2	L2, 22, 177	74LS158	376-0301	3
3	L3, 44	75107	376-0146	2
4	L4, 23	MC1487	376-0577	2
5	L5, 73, 172, 71, 123, 104, 150	74LS244	376-0621	7
6	L6, 11	74LS273	376-0102	2
7	L7, 30, 3, 48, 46, 111, 13, 130, 156	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, 31	26LS31	376-0470	2
13	L14	74LS260	376-0206	1
14	L15, 138, 18, 119	74LS175	376-0270	4
15	L16, 40	74F191	376-0581	2
16	L17, 38, 35, 141, 151, 175, 182, 5, 180, 19	74LS74	376-0202	10
17	L19, 25, 80, 159, 120, 158	74LS08	376-0200	6
18	L21, 113	MM6116P-3	377-0403	2
19	L24, 25	LS2538	376-0569	2
20	L26, 88	74LS175	376-0160	2
21	L27, 49, 93, 128, 129, 131, 151, 154	74LS32	376-0211	8
22	L28	74LS20	376-0210	1
23	L29, 35, 72, 87, 103, 135, 137, 131	74LS08	376-0153	8
24	L31	74LS191	376-0445	1
25	L32, 3, 51, 52, 67, 74, 83, 144, 122, 127, 136, 152, 155, 158	74LS74	376-0155	14
26	L37	74LS11	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	MM4864-2	377-0417	9
31	L62, 99, 139	74LS04	376-0197	3
32	L63, 77	95174-4	377-0411	2
33	L65, 104, 102, 110, 109, 101, 151, 189	74LS245	376-0285	8
34	L66, 11, 161, 182, 153, 153, 180	74LS374	376-0286	7
35	L75, 8, 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	L78, 97, 146, 167	74LS225	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	74LS138	376-0298	1
47	L98	74LS674	376-0580	1
48	L101, 164	74L04	376-0161	2
49	L112, 114	Z80ACTC	377-0371	2
50	L117, 142	74LS02	376-0199	2
51	L118	74LS32	376-0205	1
52	L124	7407	376-0056	1
53	L126	8273	376-0350	1
54	L132	74LS163	376-0574	1
55	L140	74LS86	376-0271	1
56	L153, 143, 163	74LS00	376-0207	3
57	L150	74LS151	376-0336	1
58	L160	74LS174	376-0247	1
59	L162, 183	2732A-2	377-0452	2
60	L166	74LS86	376-0231	1
61	L171	74LS163	376-0235	1
62	L176	74LS280	376-0246	1
63	L181	74LS00	376-0228	1

ITEM	REF DESIGNATOR	DESCRIPTION	WANG PART NO	QTY
64	Y1	4MHz 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 HOR	350-0203	1
73	L112, 114	28 PIN SKT	376-9815	2
74	R24, 25, 27	4.7K 51P	333-9812	3
75	R24A	4.7K 1/4W 5K	330-3048	1
76	R1, 5, 7, 1	910HM 1/4W 5K	330-1092	4
77	R2, 8, 12	3900HM 1/4W 5K	330-2040	4
78	R3, 9, 13, 15, 19, 16, 20, 21	1080HM 1/4W 5K	330-2011	8
79	R4, 10, 14, 18	2700HM 1/4W 5K	330-2028	4
80	R17	2400HM 1/4W 5K	330-2025	1
81	R22, 23, 26	330HM 1/4W 5K	330-1034	3
82	C18, 113, 114, 115, 116	15UF 20V TANT	300-4022	5
83	C19-26	.05UF 16V	300-1930	8
84	C5, 2, 10, 35, 36, 37, 38	.01UF 25V	300-1903	19
85	C47, 46, 50-56, 58	1UF (HF) 50V	300-1931	9
86	C1, 3, 29, 11-17, 37, 27, 28, 33, 34, 40-45, 48, 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		PREM MUT	652-0075	4

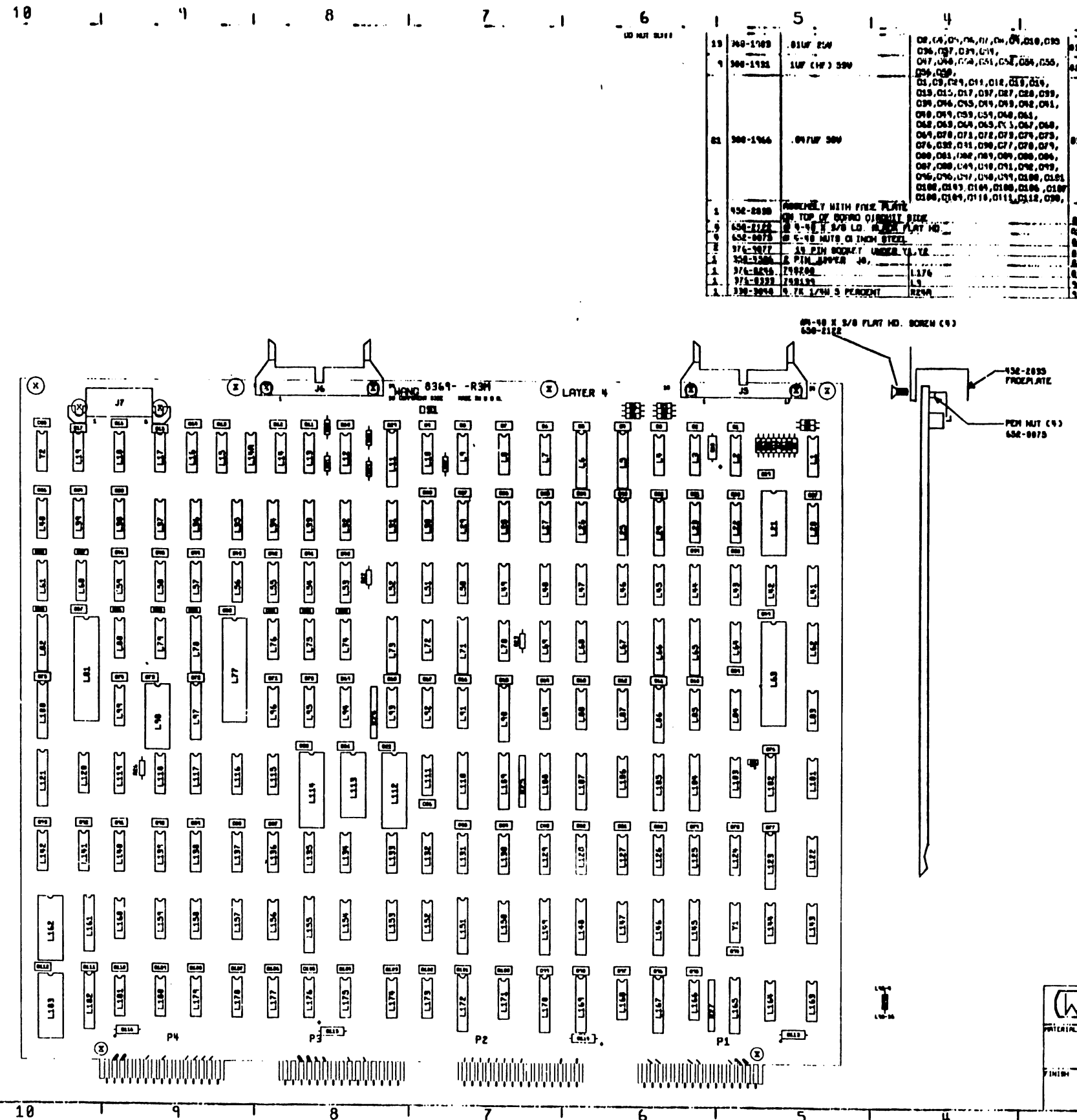
E 0369

REVISION	SEE SHEET 1
9	

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

NO PART IS TO BE
 DRAWN TO SCALE UNLESS
 SPECIFICALLY NOTED TO THE
 CONTRARY. ALL DIMENSIONS
 ARE TO BE TAKEN FROM THE
 CENTER OF HOLES UNLESS
 OTHERWISE SPECIFIED.
 ALL DIMENSIONS ARE IN
 INCHES UNLESS OTHERWISE
 SPECIFIED.

NO.	REVISION	DATE	BY	APP'D.
1	DNR E1567	1/28	RUS9	RUS9
2	ECO 24197	8/28	RUS9	RUS9
3	ECO 24244	10/28	RUS9	RUS9
4	ECO 24483	12/13	RUS9	RUS9
5	ECO 25422	11/11/83	RUS9	RUS9
6	ECO 26432			



NO.	DESCRIPTION	QTY	PART NO.
1	FRONT PLATE	1	450-2030
2	PERM MUT	1	650-0070
3	FRONT PLATE	1	450-2030
4	PERM MUT	1	650-0070

NO.	DESCRIPTION	QTY	PART NO.
1	FRONT PLATE	1	450-2030
2	PERM MUT	1	650-0070
3	FRONT PLATE	1	450-2030
4	PERM MUT	1	650-0070
5	FRONT PLATE	1	450-2030
6	PERM MUT	1	650-0070
7	FRONT PLATE	1	450-2030
8	PERM MUT	1	650-0070
9	FRONT PLATE	1	450-2030
10	PERM MUT	1	650-0070
11	FRONT PLATE	1	450-2030
12	PERM MUT	1	650-0070
13	FRONT PLATE	1	450-2030
14	PERM MUT	1	650-0070
15	FRONT PLATE	1	450-2030
16	PERM MUT	1	650-0070
17	FRONT PLATE	1	450-2030
18	PERM MUT	1	650-0070
19	FRONT PLATE	1	450-2030
20	PERM MUT	1	650-0070
21	FRONT PLATE	1	450-2030
22	PERM MUT	1	650-0070
23	FRONT PLATE	1	450-2030
24	PERM MUT	1	650-0070
25	FRONT PLATE	1	450-2030
26	PERM MUT	1	650-0070
27	FRONT PLATE	1	450-2030
28	PERM MUT	1	650-0070
29	FRONT PLATE	1	450-2030
30	PERM MUT	1	650-0070
31	FRONT PLATE	1	450-2030
32	PERM MUT	1	650-0070
33	FRONT PLATE	1	450-2030
34	PERM MUT	1	650-0070
35	FRONT PLATE	1	450-2030
36	PERM MUT	1	650-0070
37	FRONT PLATE	1	450-2030
38	PERM MUT	1	650-0070
39	FRONT PLATE	1	450-2030
40	PERM MUT	1	650-0070
41	FRONT PLATE	1	450-2030
42	PERM MUT	1	650-0070
43	FRONT PLATE	1	450-2030
44	PERM MUT	1	650-0070
45	FRONT PLATE	1	450-2030
46	PERM MUT	1	650-0070
47	FRONT PLATE	1	450-2030
48	PERM MUT	1	650-0070
49	FRONT PLATE	1	450-2030
50	PERM MUT	1	650-0070

WANG CORPORATION, INC.
 MODEL NO. V800/100
 TITLE: LINK MULTILAYER BOARD ASSEMBLY DRAWING
 210-8369-R3
 8369 6

REF: 11-11-71

J3 CM

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J4 A-BUS

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J9 B-BUS

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J12 CACHE

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J15 5BC

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J15 MEM

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J21 MEM

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J24 BA

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J16

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J19

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

J22

Table with 2 columns: Name (e.g., BRYAN, BRYAN), Age (e.g., 1, 1), and other identifiers.

WANG logo and technical specifications: WANG, MODEL: V5-2A, CPU/MOTHER BOARD M/L, SEE QUART, 8508.

IOP0 J28				IOP1 J32				IOP2 J36				IOP3 J40				IOP4 J44				IOP5 J48							
Z	±0V	22	±0V	Z	±0V	22	±0V	Z	±0V	22	±0V	Z	±0V	22	±0V	Z	±0V	22	±0V	Z	±0V	22	±0V	Z	±0V	22	±0V
Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR	Y	+5VVR	21	+5VVR
X	-5VR	20	-5VR	X	-5VR	20	-5VR	X	-5VR	20	-5VR	X	-5VR	20	-5VR	X	-5VR	20	-5VR	X	-5VR	20	-5VR	X	-5VR	20	-5VR
W		19		W		19		W		19		W		19		W		19		W		19		W		19	
V		18	BMA3	V		18	BMA3	V		18	BMA3	V		18	BMA3	V		18	BMA3	V		18	BMA3	V		18	BMA3
U	BMA4	17	BMA3	U	BMA4	17	BMA3	U	BMA4	17	BMA3	U	BMA4	17	BMA3	U	BMA4	17	BMA3	U	BMA4	17	BMA3	U	BMA4	17	BMA3
T	BMA6	16		T	BMA6	16		T	BMA6	16		T	BMA6	16		T	BMA6	16		T	BMA6	16		T	BMA6	16	
S		15		S		15		S		15		S		15		S		15		S		15		S		15	
R		14		R		14		R		14		R		14		R		14		R		14		R		14	
P		13		P		13		P		13		P		13		P		13		P		13		P		13	
N		12		N		12		N		12		N		12		N		12		N		12		N		12	
M		11		M		11		M		11		M		11		M		11		M		11		M		11	
L		10		L		10		L		10		L		10		L		10		L		10		L		10	
K		9		K		9		K		9		K		9		K		9		K		9		K		9	
J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR	J	-13VVR	8	-13VVR
H		7		H		7		H		7		H		7		H		7		H		7		H		7	
F	±0V	6	±0V	F	±0V	6	±0V	F	±0V	6	±0V	F	±0V	6	±0V	F	±0V	6	±0V	F	±0V	6	±0V	F	±0V	6	±0V
E	±0V	5	±0V	E	±0V	5	±0V	E	±0V	5	±0V	E	±0V	5	±0V	E	±0V	5	±0V	E	±0V	5	±0V	E	±0V	5	±0V
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C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4	C	BMDL3	3	BMDL4
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J27				J31				J35				J39				J43				J47							
Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3	Z	BMDH2	22	BMDH3
Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5	Y	BMDH4	21	BMDH5
X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7	X	BMDH6	20	BMDH7
W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0	W	BMDH1	19	BMDH0
V		18		V		18		V		18		V		18		V		18		V		18		V		18	
U		17		U		17		U		17		U		17		U		17		U		17		U		17	
T		16		T		16		T		16		T		16		T		16		T		16		T		16	
S		15		S		15		S		15		S		15		S		15		S		15		S		15	
R	MMB	14	MMO	R	MMB	14	MMO	R	MMB	14	MMO	R	MMB	14	MMO	R	MMB	14	MMO	R	MMB	14	MMO	R	MMB	14	MMO
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J	MM14	8	MM6	J	MM14	8	MM6	J	MM14	8	MM6	J	MM14	8	MM6	J	MM14	8	MM6	J	MM14	8	MM6	J	MM14	8	MM6
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E		5		E		5		E		5		E		5		E		5		E		5		E		5	
D		4		D		4		D		4		D		4		D		4		D		4		D		4	
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B		2		B		2		B		2		B		2		B		2		B		2		B		2	
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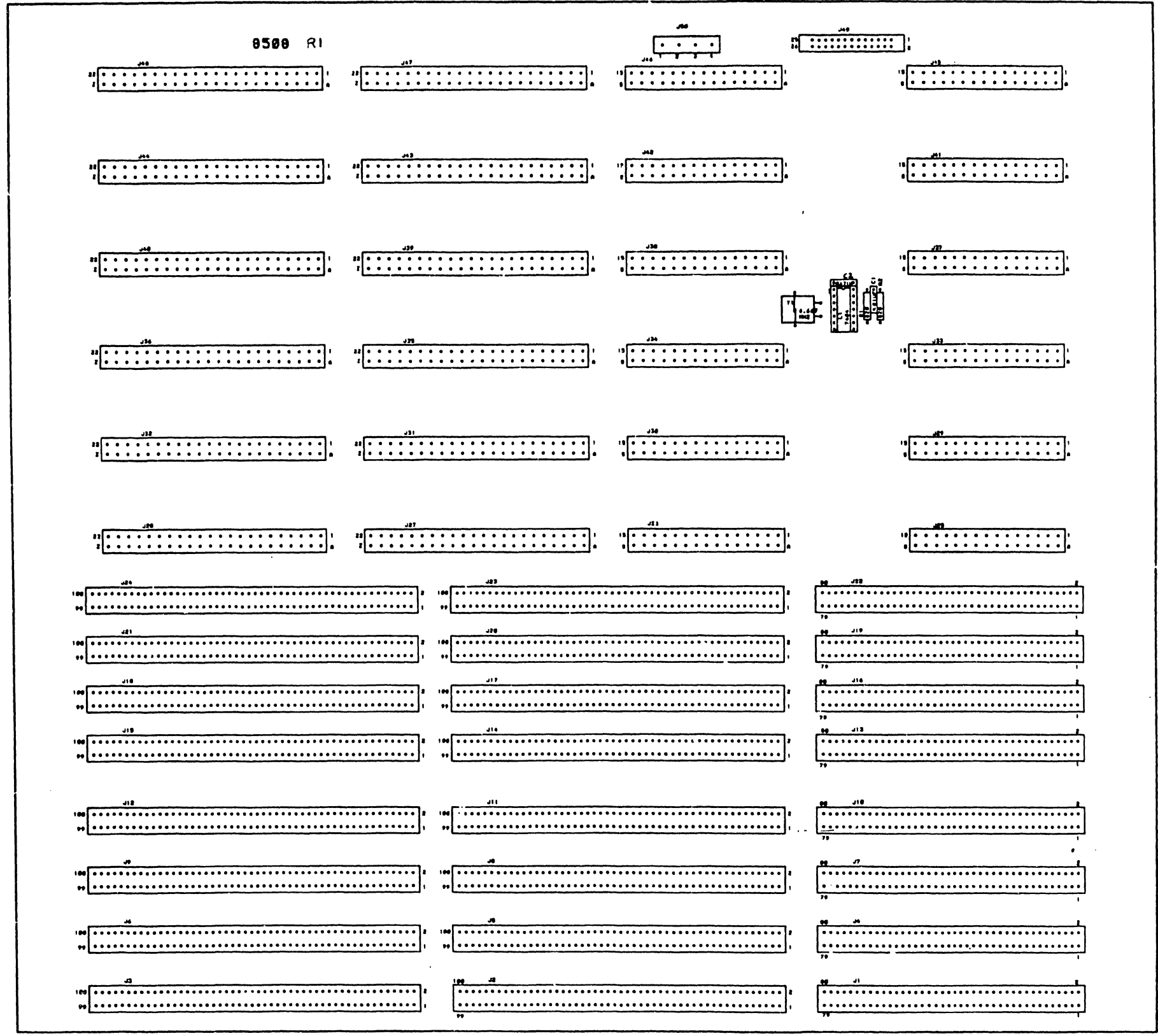
J26				J30				J34				J38				J42				J46							
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R		14		R		14		R		14		R		14		R		14		R		14		R		14	
P		13		P		13		P		13		P		13		P		13		P		13		P		13	
N		12		N		12		N		12		N		12		N		12		N		12		N		12	
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L		10		L		10		L		10		L		10		L		10		L		10		L		10	
K		9		K		9		K		9		K		9		K		9		K		9		K		9	
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J25				J29				J33				J37				J41				J45							
S	±0V	15	±0V	S	±0V	15	±0V	S	±0V	15	±0V	S	±0V	15	±0V	S	±0V	15	±0V	S	±0V	15	±0V	S	±0V	15	±0V
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F	MMP	6	±0V	F	MMP	6	±0V	F	MMP	6	±0V	F	MMP	6													

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

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

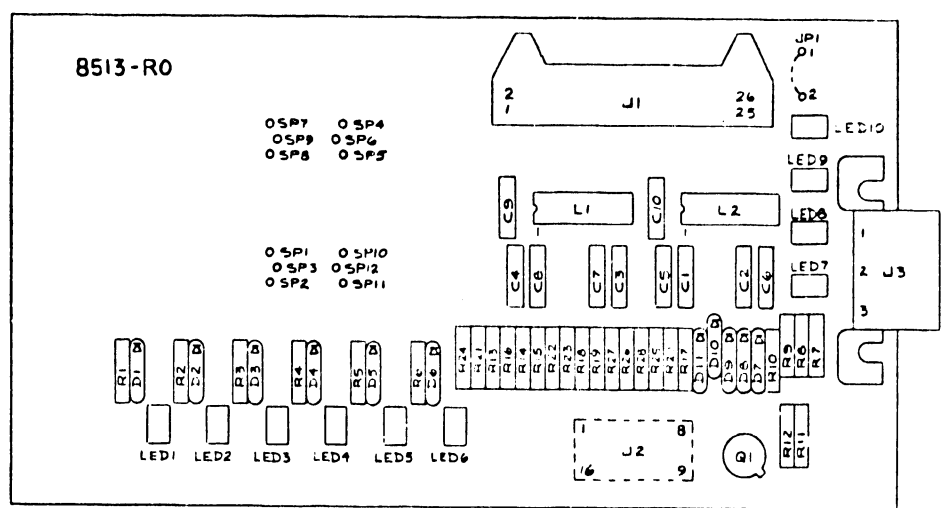
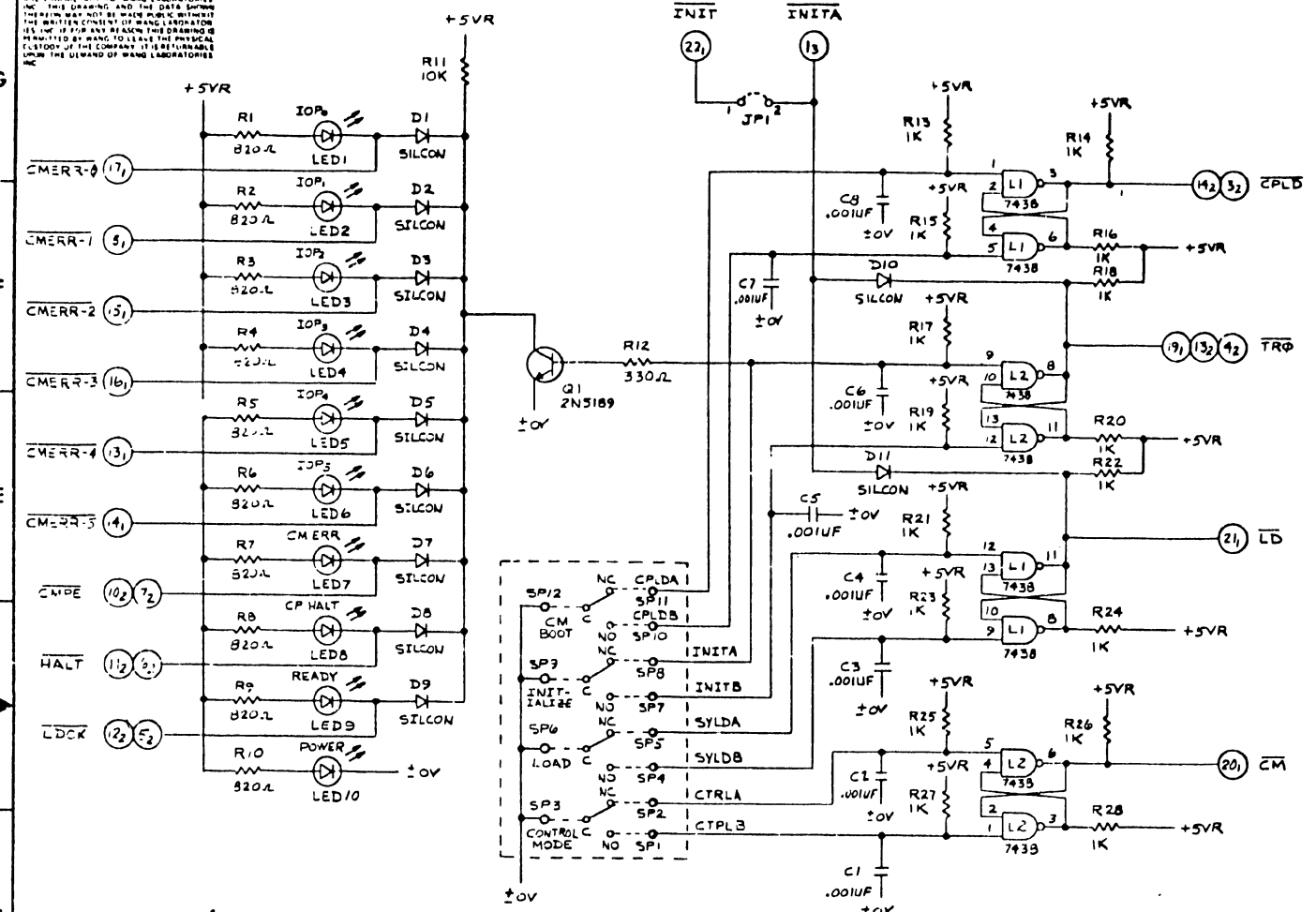
REVISION	DATE	BY	DESCRIPTION
1	11/15/85	DAVID E. VES	ORIGINAL PLOT
2	11/15/85	DAVID E. VES	REVISED PER APPROVAL
3	11/15/85	DAVID E. VES	REVISED PER APPROVAL
4	11/15/85	DAVID E. VES	REVISED PER APPROVAL



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

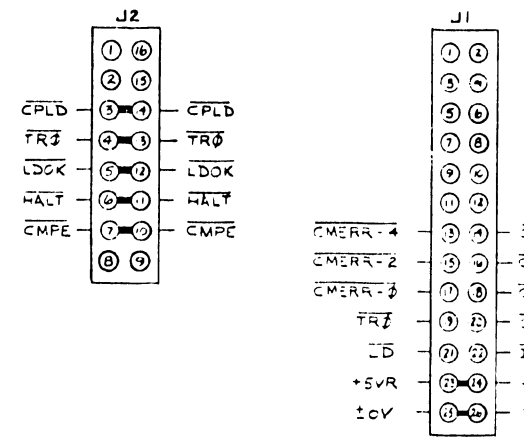
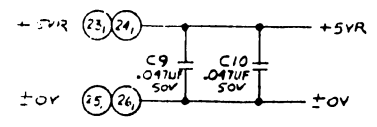
(WANG)		BY	DATE	APPROVED BY	DATE
MATERIAL	WORK NO. PO 62A	DAVID E. VES	11/15/85	DAVID E. VES	11/15/85
DESCRIPTION	V/S-952A	CHE	11/15/85	DAVID E. VES	11/15/85
PROJECT	CPU/IO MOTHER BD M/L	SECURAT	E 8508	2	

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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	330-1906
C9,10	.047UF 50V	330-1966
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

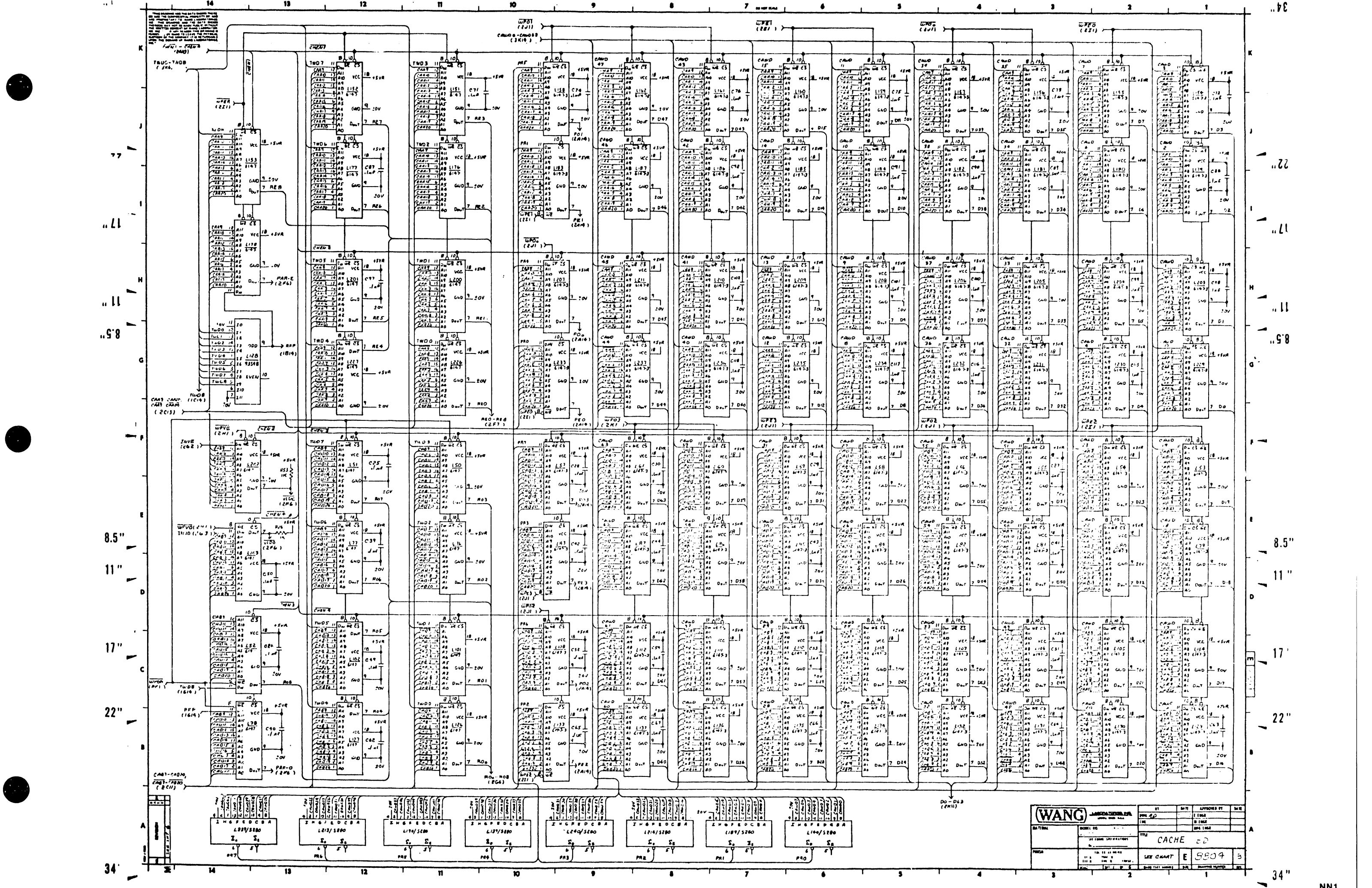


NOTE:
ALL RESISTORS ARE 1/4W, 5%,
UNLESS OTHERWISE SPECIFIED.

E-REV

NO	BY	DATE	DESCRIPTION
1	WANG	12/1/74	ORIGINAL
2	WANG	12/1/74	PER DWG E189
3	WANG	12/1/74	APP'D: WANG

WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
8513	270-8513	FRONT PANEL BOARD	WANG	12/1/74	WANG	12/1/74
MATERIAL			MODEL NO. FJ822A VS-95A			
FINISH			TITLE: FRONT PANEL BOARD			
SCALE			270-8513 D 8513 0			



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K
J
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A

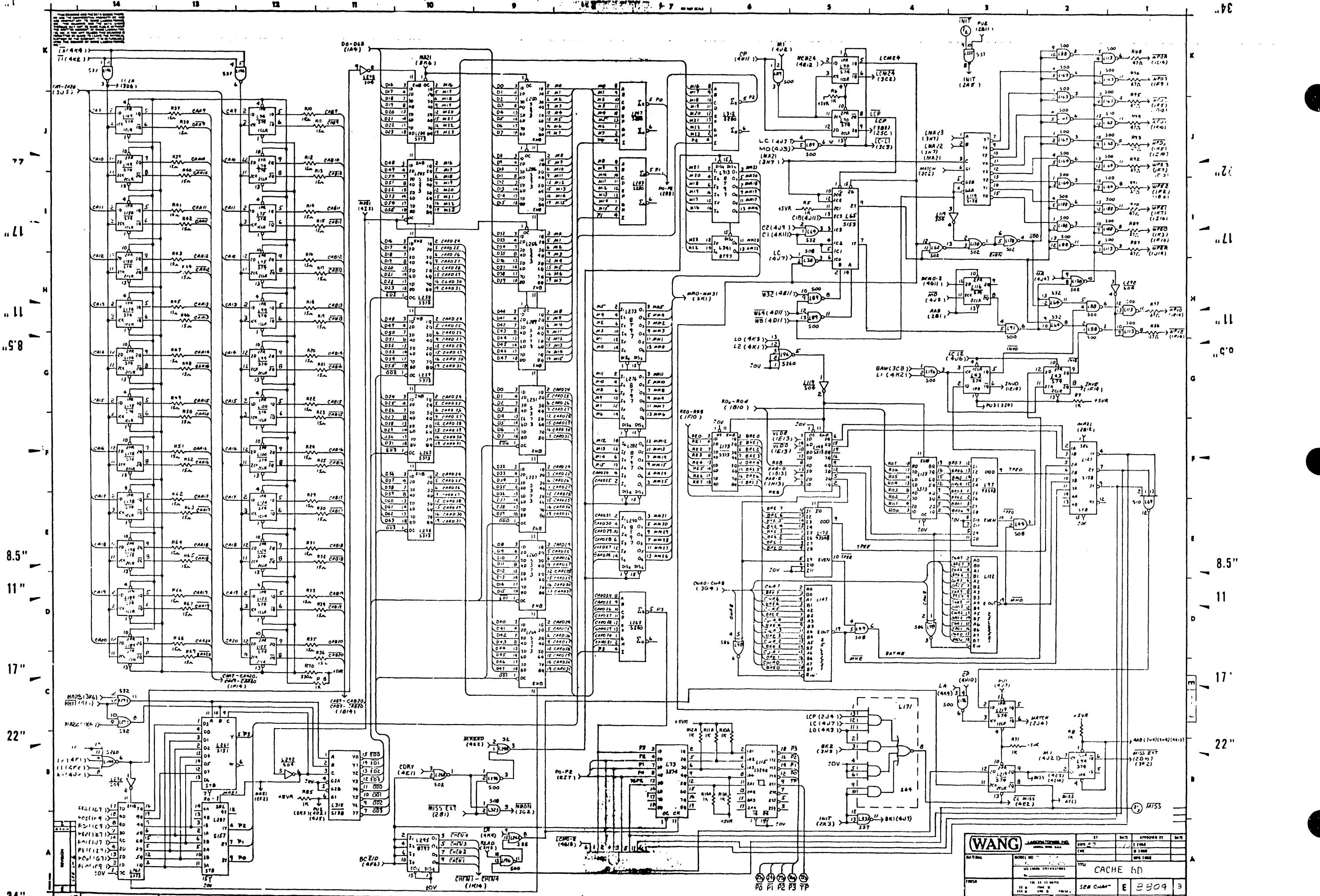
34"

8.5"
11"
17"
22"

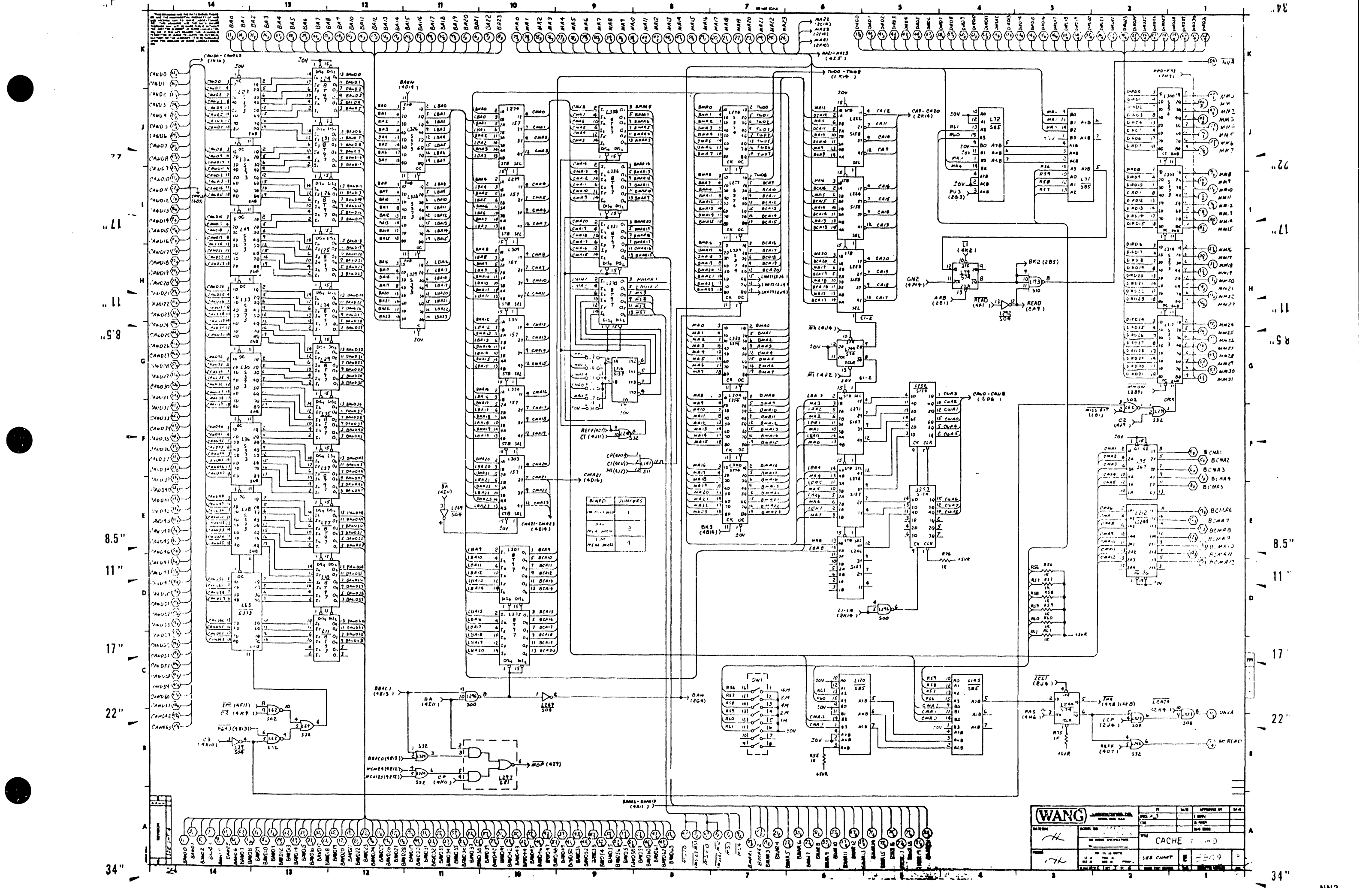
34"

14
13
12
11
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1

(WANG)		DATE	APPROVED BY	SHEET
PROJECT NO.		DATE	BY	NO.
TITLE		CACHE		
DRAWING NO.		E 5804		
SCALE		AS SHOWN		

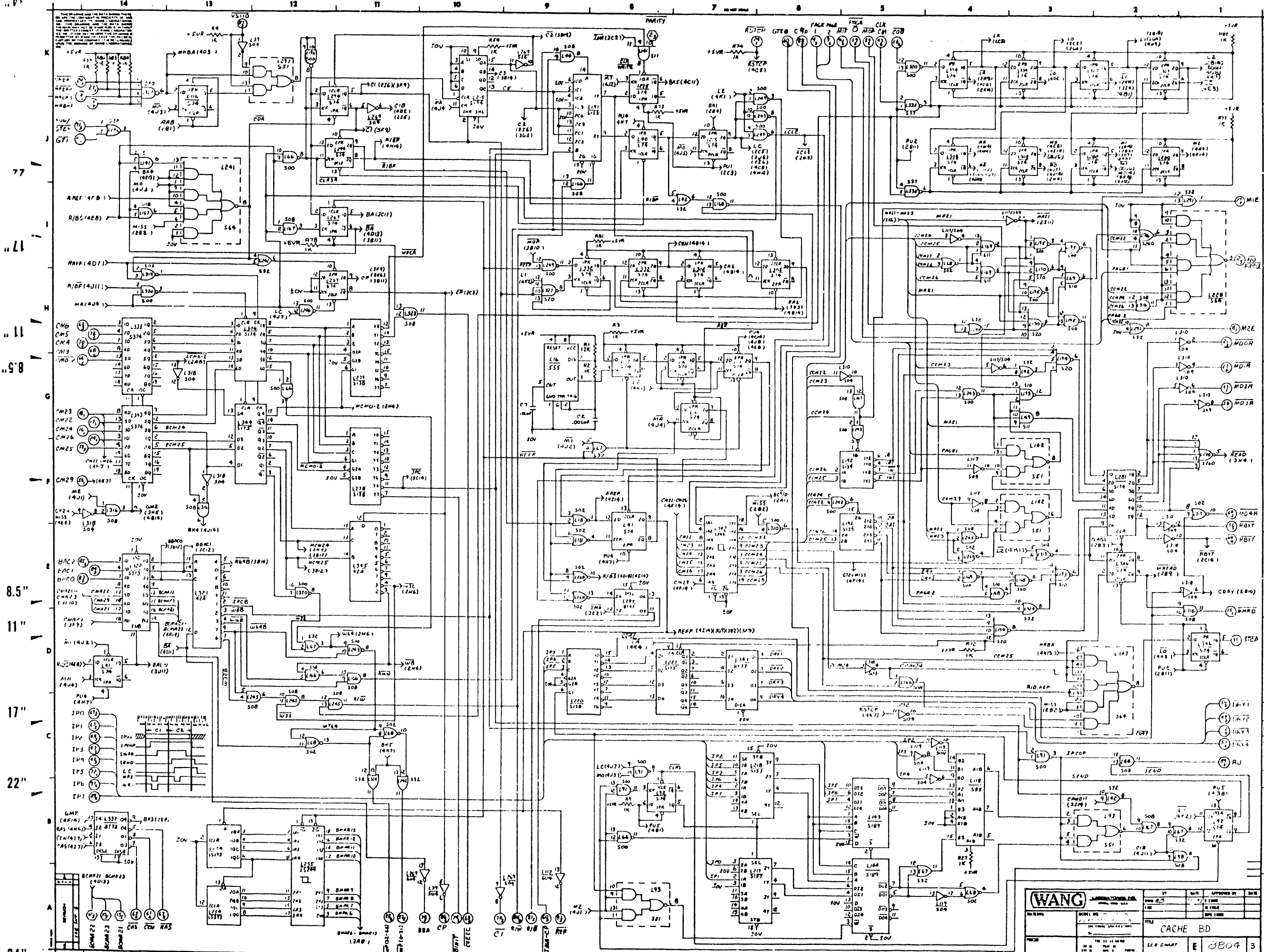


WANG		DATE	APPROVED BY	SHEET
MODEL NO.		DATE	APPROVED BY	SHEET
TITLE		CACHE 6D		
DRAWN BY		SEM CHAN		
CHECKED BY		E 3909 3		



CIRCUIT	JUMPER	REF. NO.
...
...
...

WANG		DATE	APPROVED BY
PROJECT NO.	REV.	DATE	INITIALS
...
TITLE: CACHE		SCALE: 1:1	...
...

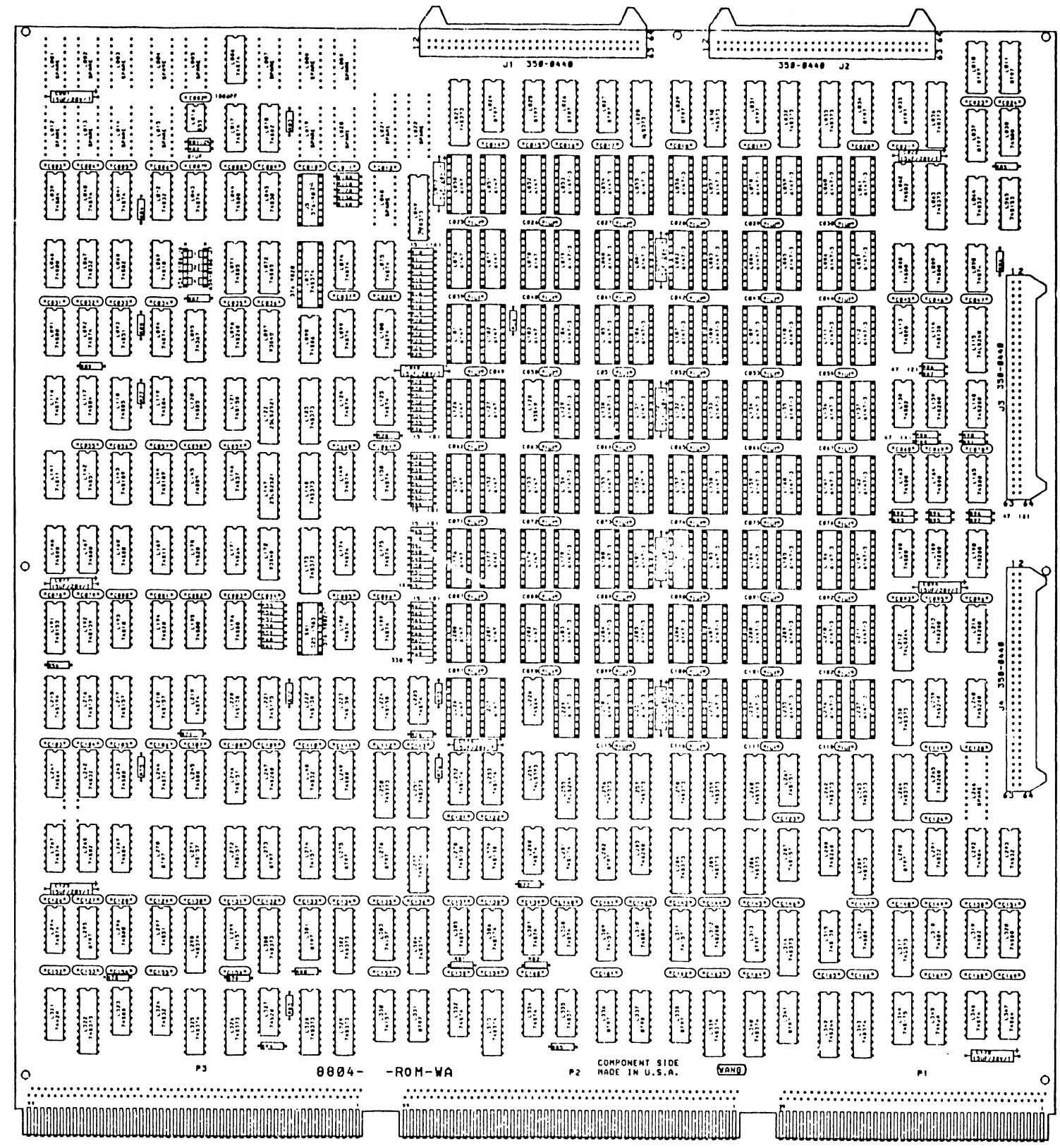


WANG		DATE	APPROVED BY
WORK NO.	REV.	DATE	BY
TITLE		SCALE	FIG. NO.
PROJECT		SEC. CHART	E 3804 3

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

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

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



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

WANG		DATE	APPROVED BY	DATE
MODEL NO. 8804-A		REV. 6	10-10-68	J. ENCA
SERIAL NO. 100145 100		CHE	10-10-68	B. ENCA
TITLE		CACHE HD		
REV. 1	REV. 2	REV. 3	REV. 4	REV. 5
1	2	3	4	5
JULY CHART		E	8804	3

14 12 10 8 6 4 2 1

Table with columns: PART NO., TYPE, QTY, UNIT, and various part numbers and descriptions.

Table with columns: TYPE, LOCATION, QUANTITY, and part numbers like 74500, 74502, 74504.

Table with columns: SYMBOL, TYPE, and part numbers like 74508, 74510, 74512.

Table with columns: SYMBOL, TYPE, and part numbers like 74514, 74516, 74518.

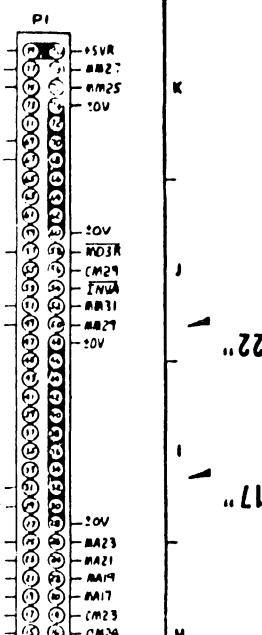
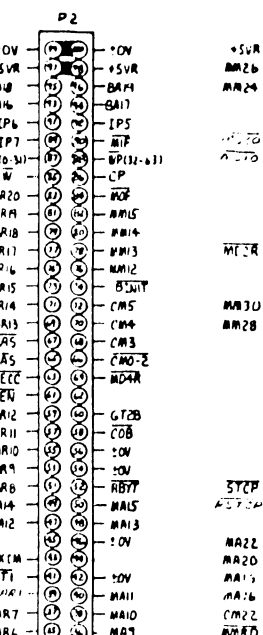
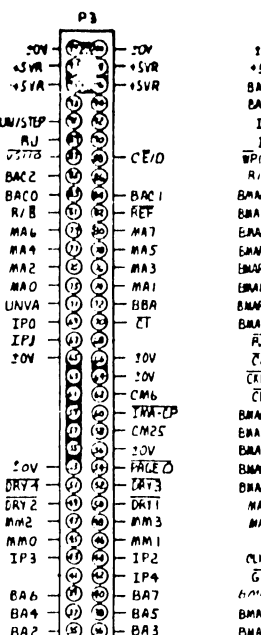
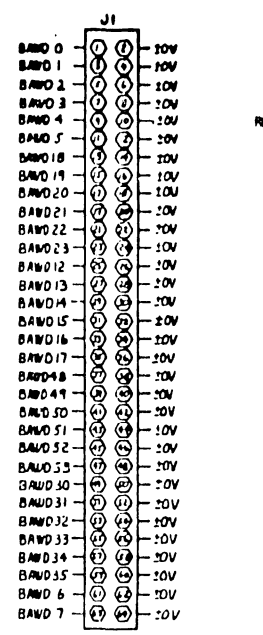
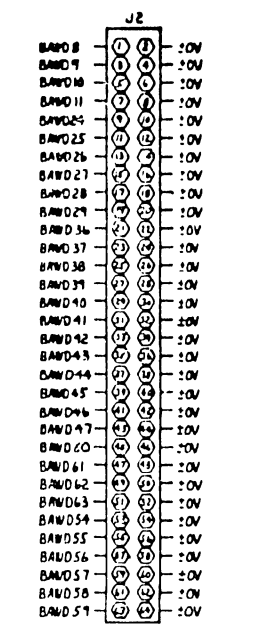
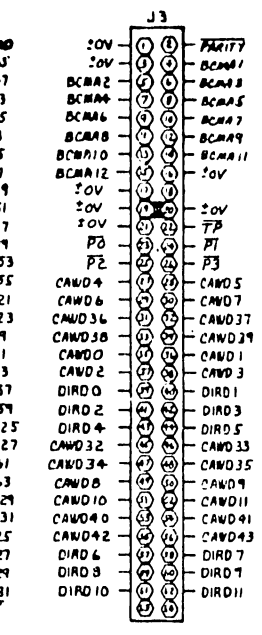
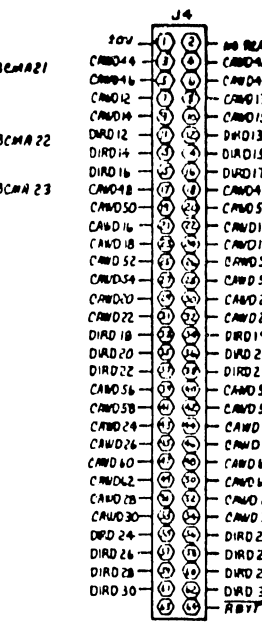
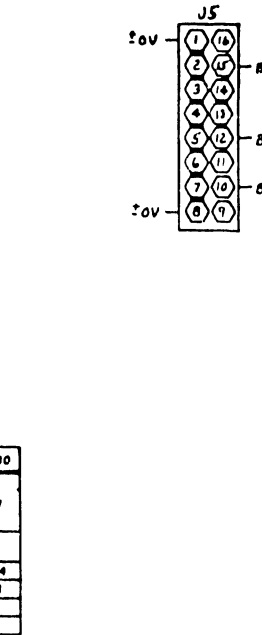
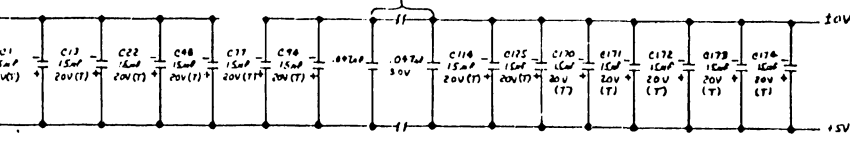
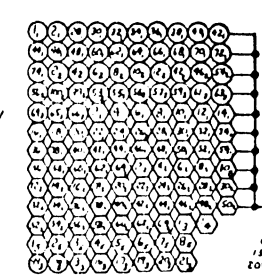
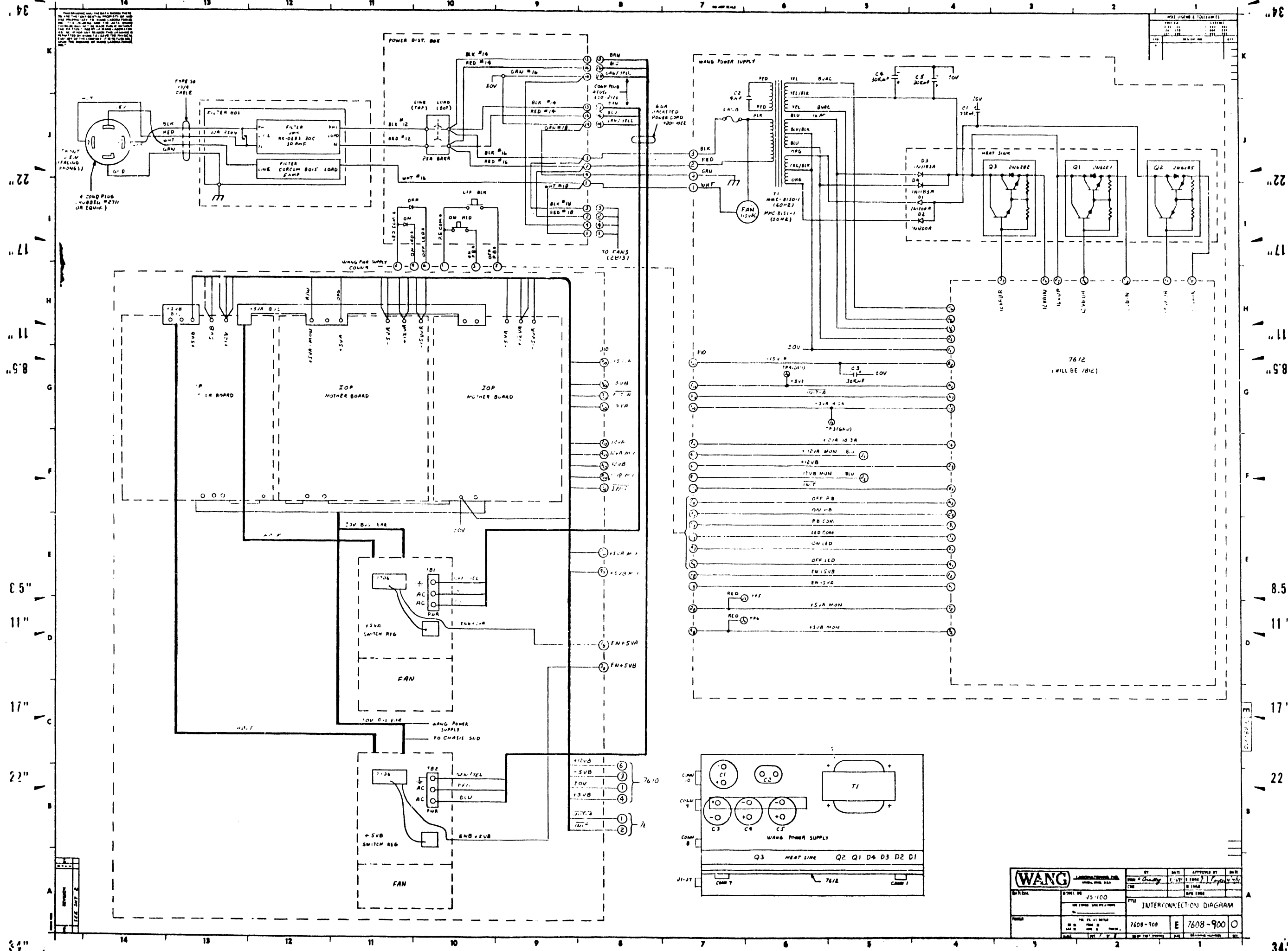


Table with columns: Part number and description, including 210-209-877-108.



WANG logo and project information including 'CACHE BD' and '5804'.



THIS DRAWING SHOWS THE ELECTRICAL CONNECTIONS BETWEEN THE POWER SUPPLY AND THE COMPUTER SYSTEM. THE POWER SUPPLY IS A WANG 7600 POWER SUPPLY. THE COMPUTER SYSTEM IS A WANG 7600 COMPUTER SYSTEM. THE POWER SUPPLY PROVIDES THE FOLLOWING VOLTAGES: +5V, +12V, +15V, -5V, AND GND. THE COMPUTER SYSTEM REQUIRES THE FOLLOWING VOLTAGES: +5V, +12V, +15V, -5V, AND GND. THE ELECTRICAL CONNECTIONS ARE SHOWN IN THIS DRAWING.

REV.	DATE	BY	CHKD.
1	11/15/68	W. J. ...	...
2	11/15/68	...	...
3	11/15/68	...	...

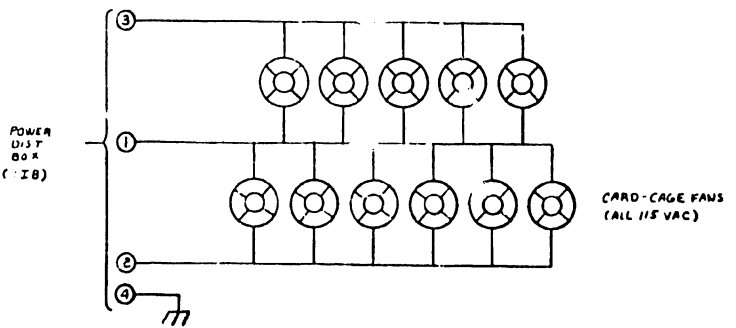
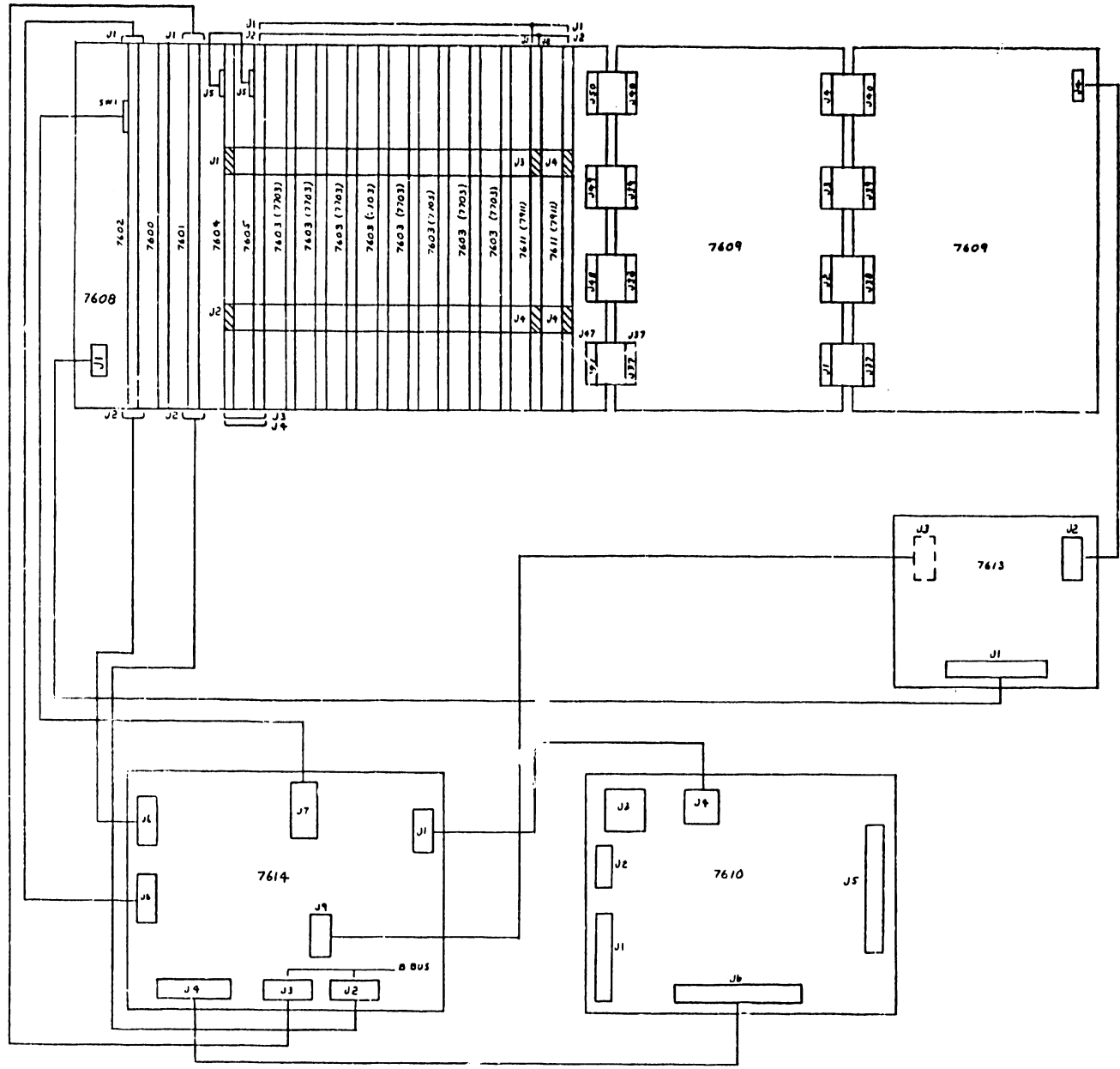
WANG		DATE	APPROVED BY	DATE
PART NO. 75-100		DATE	DATE	DATE
TITLE		TITLE		
7600-900		E 7608-900		

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY THE MARKING OF THIS DOCUMENT

REV	DATE	BY	DESCRIPTION
1			
2			
3			

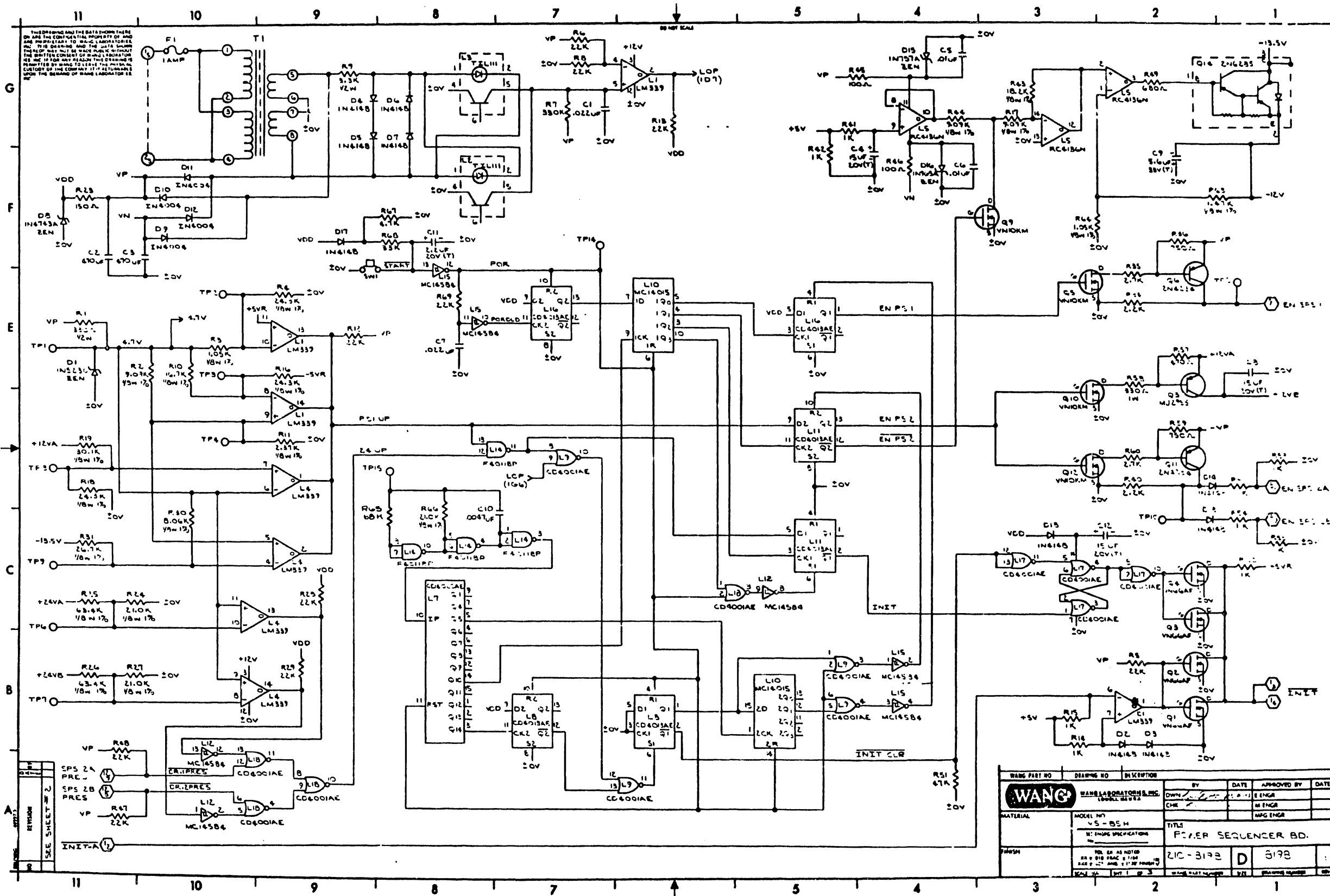
34
22"
17"
11"
8.5"
8.5"
11"
17"
22"
22"
11"
A

14
13
12
11
10
9
8
7
6
5
4
3
2
1
E 7608-7609
A



		DATE: 11/15/68 APPROVED BY: [Signature] BY: [Signature]
VS-100 INTERCONNECTING DIAGRAM	7608-900 E	7608-900 O

77
"21"
"11"
"5'8"
E
C
8.5"
11"
17"
22"
A



"22"
"11"
"5'8"
E
D
8.5"
11"
17"
22"
A

REV	DESCRIPTION
1	INIT-A
2	VP
3	VP
4	VP
5	VP
6	VP
7	VP
8	VP
9	VP
10	VP
11	VP

WANG PART NO		DRAWING NO		DESCRIPTION	
WANG		WANG LABORATORY INC.		MODEL 7200	
MATERIAL		MODEL INT		BY	
PARTS		V5 - 05 H		DATE	
		TITLE		APPROVED BY	
		POWER SEQUENCER BD.		DATE	
		21C-3193		D	
		3193			

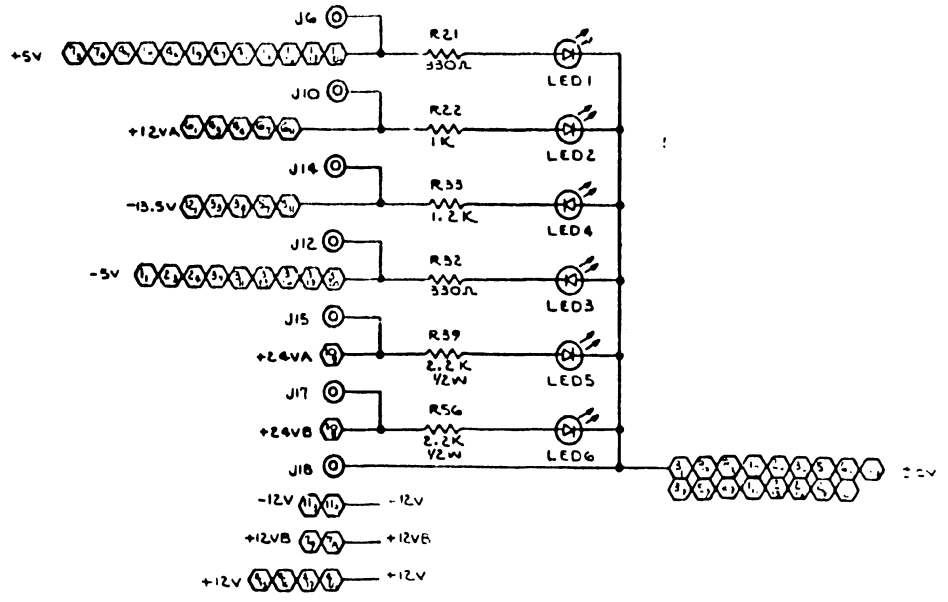
The drawings and the data sheets thereon are the confidential property of and are prepared for the use of the customer. They are not to be made public without the written consent of a Wang Laboratories, Inc. representative. The drawings are to be used for the purpose of manufacturing and are not to be used for any other purpose without the written consent of Wang Laboratories, Inc.

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

POWER				
VENDOR NO	WANG NO	SOURCE	PWR	GND
LM339	376-0240	V _P	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		
TIL111	375-2109	NONE		*
RC4136N	376-0425	*	*	*

* SHOWN IN SCHEMATIC

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



WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
WANG	210-8198	POWER SEQUENCER ED.	DOWN	11/19	ENGR	
MATERIAL	MODEL NO	VS-BSH	CHK		M ENGR	
	SEE ENG'G SPECIFICATIONS				MFG ENGR	
FRSH	NO. IN AS NOTED	210-8198	D	8198		1
	SEE 8198 PART 1 OF 2					
	SEE 8198 PART 2 OF 2					

QQ2

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
 DATE OF MOST RECENT ECG: 333470

CREATED: 07/26/84 10:00
 LAST MODIFIED: 09/26/84 09:23 BY: NS
 EDITING REVISION: 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C8 - C8	300-1903-	.01U	CAP CERAMIC DISC +80% -20% 25V 25P		2
C1	300-1927-	.022U	CAP CERAMIC MONO RAD 10% 100V X7R		2
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
C6	300-4022-	15U	CAP TANT AXIAL 10% 20V		3
C12					
C10	300-5013-	.0007U	CAP MICA DIPPED 5% -.05V		1
SW1	325-0041-		SWITCH MOMENTARY PUSH 90 DEG SPDT		1
R48 - R48	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	330-2050-	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 - R55					
R33	330-2012-	1.2K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R14	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
R0					
R12 - R13					
R28 - R29					
R47 - R48					
R69					
R68	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.
R01	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	330-5014-	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
R50	332-2034-	330.000	RES FIXED 1/2W 5%		1
R2	333-0061-	9.09K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		3
R17					
R44					
R19	333-0063-	30.1K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R25 - R26	333-0079-	63.0K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		2
R11	333-0093-	2.37K	RES FIXED METAL FILM 1/8W 100PPM RNS5		1
R10	333-0097-	10.5K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R31	333-0098-	20.7K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R43	333-0100-	10.2K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R30	333-0113-	0.04K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R24	333-0114-	21.0K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		3
R27					
R66					
R63	333-0120-	1.47K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		1
R3	333-0127-	1.05K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		2
R64					
R6	333-0130-	24.3K	RES FIXED METAL FILM 1/8W 1% TC: D RNS5		3
R16					
R10					
J11	350-0213-	6 CONT	HEADER .156 90 DEG W/LK RAMP		1
J13	350-0215-	4 CONT	HEADER PIN 4 POS UNIVERSAL RED		4
J18					
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		1
F1	360-1154-	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
Q6	375-1024-	2N4234	TSTR PNP TO-39 1W 40V 250MA		2
Q11					
Q13	375-1030-	MJ2955	TSTR PNP TO-3 115W 60V 15A		1
Q14	375-1047-	2N4203	TSTR PNP TO-3 160W 60V 20A		1
Q5	375-1115-	VM106M	FET N-CH TO-237 1W 60V .5A		4
Q9 - Q10					
Q12					
Q1 - Q4	375-1125-	VM66AF	FET N-CH TO-202AA 15W 60V 2A		4
L2 - L3	375-2109-	TIL-111	TSTR OPTO-COUPLER DIP		2
L1	376-0240-	LM339	IC QUAD COMPARATOR 14 PIN DIP		2
L4					

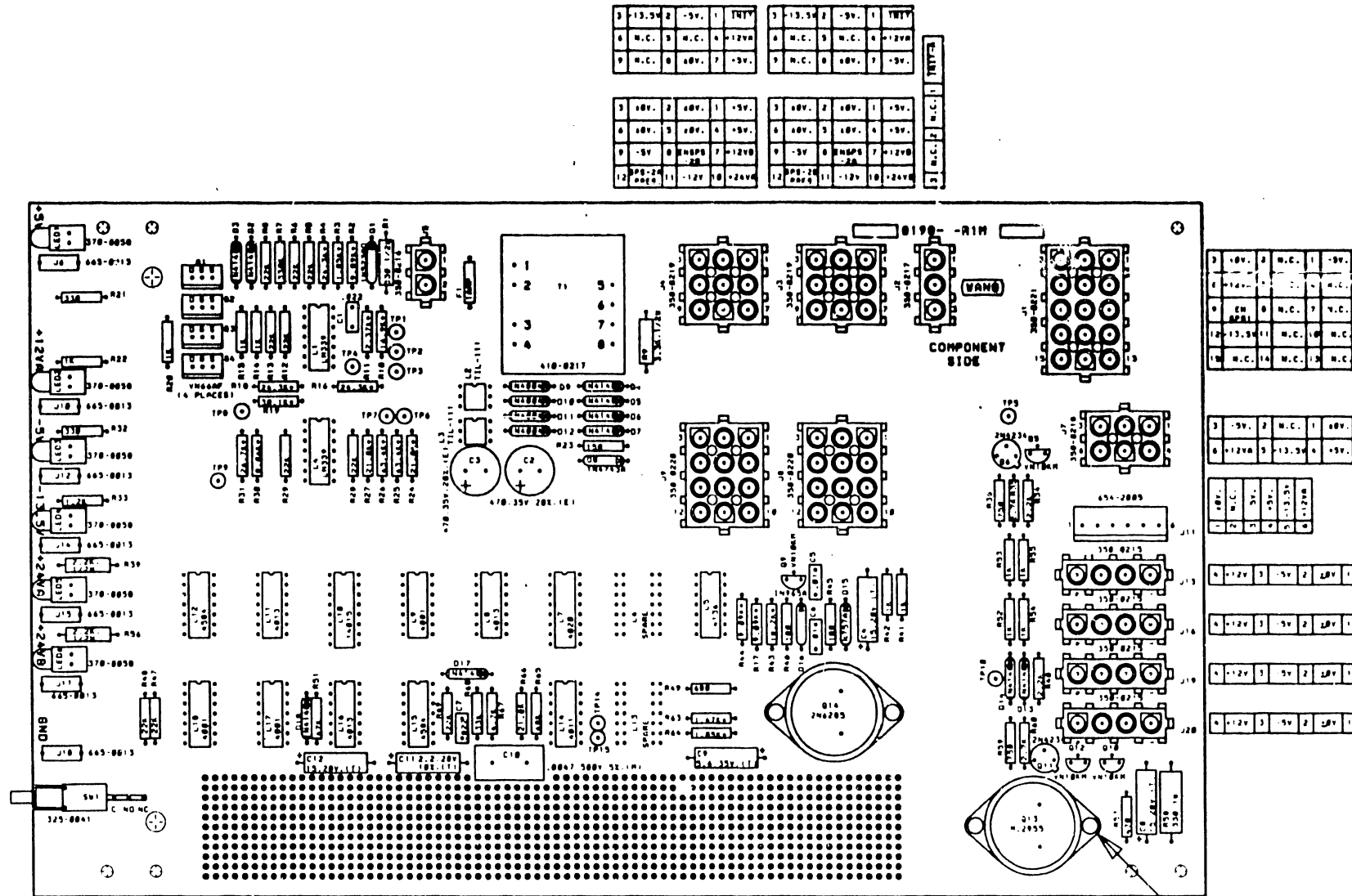
BOARD NO. & TITLE: C0198 POWER SEQUENCER BOARD SCHEMATIC REVISION (S): 01 SHEET OF PAGE 3

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	376-0370-	4011	CMOS IC QUAD 2-INPUT NAND GATE		1
L8	376-0425-	4136	IC QUAD HIGH-PERFORMANCE OP AMP		1
L8	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	DI0 SIG 75V 500MA DO15		10
O13 - O14					
O17 - O18					
O18	380-2091-	1N757A	DIO ZENER 9.1V 400MA 5% D07		1
O0	380-2113-	1N4743A	DIO ZENER 13V 1W 5% D041		1
O16	380-2116-	1N965A	DIO ZENER 15V 400MA 10% D07		1
O1	380-2147-	1N5230D	DIO ZENER 4.7V 500MA 1% D0-7		1
O9 - O12	380-4000-	1N4004	DIO RECT 400V 1A D041		4
T1	410-0217-	LINEAR	RFMR POWER 115/230V 50/60HZ IEC-300		1
O1	510-0190-	PCB	PCB		1
O2 - O9	650-3172-	SCREW	SCREW PH HD 6-32 X 1/2		8
O14 - O17	652-3000-	NUT	NUT, HEX 6-32		4
O6 - O9	653-3000-	WASHER	WASHER FLAT #6		4
O10 - O13	653-3000-	WASHER	WASHER LOCK #6		4
TP1 - TP10	654-1192-	TERMINAL	TERMINAL SINGLE NECK POINT CMP		10
J6	665-0013-	2 PIN	JACK, 2 PIN		2
J10					
J12					
J14 - J15					
J17 - J18					

*** END-OF-REPORT ***

WANG WANG LABORATORIES, INC. LAWRENCE, MA U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DMW		E ENGR	
MODEL NO.		CMR		M ENGR	
SEE ENGINE SPECIFICATIONS				MFG ENGR	
TITLE		POWER SEQUENCER BD.			
PART NO.		210-8198	C	8198	1
SCALE		1/8" = 1" (3/4" DRAWING)			

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.



3	13.5V	2	-5V	1	12V
4	N.C.	3	N.C.	4	-12V
5	N.C.	6	ADV.	7	-5V
6	ADV.	2	ADV.	1	-5V
7	ADV.	3	ADV.	4	-5V
8	-5V	8	NSP	7	-12V
9	NSP	11	-12V	10	-24V
10	NSP	12	NSP	11	-12V
11	NSP	13	NSP	12	-24V

3	-5V	2	N.C.	1	-5V
4	N.C.	3	N.C.	2	N.C.
5	N.C.	4	N.C.	3	N.C.
6	N.C.	5	N.C.	4	N.C.
7	N.C.	6	N.C.	5	N.C.
8	N.C.	7	N.C.	6	N.C.
9	N.C.	8	N.C.	7	N.C.
10	N.C.	9	N.C.	8	N.C.
11	N.C.	10	N.C.	9	N.C.
12	N.C.	11	N.C.	10	N.C.

3	-5V	2	N.C.	1	ADV.
4	-12V	3	-12V	2	-5V
5	-12V	4	-12V	3	-5V
6	-12V	5	-12V	4	-5V
7	-12V	6	-12V	5	-5V
8	-12V	7	-12V	6	-5V
9	-12V	8	-12V	7	-5V
10	-12V	9	-12V	8	-5V
11	-12V	10	-12V	9	-5V
12	-12V	11	-12V	10	-5V

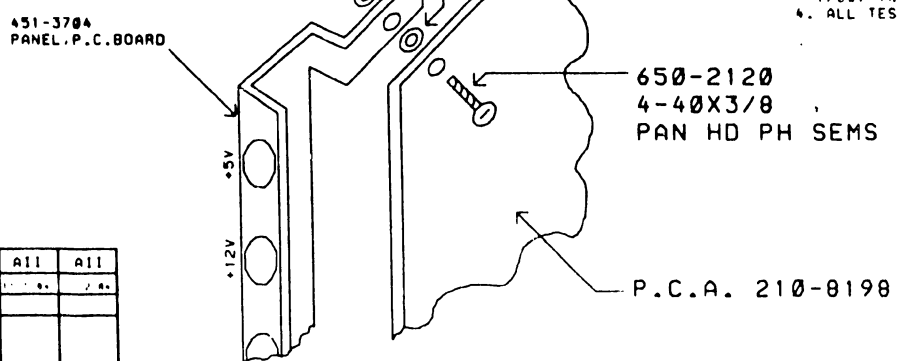
3	-12V	2	-5V	1	-5V
4	-12V	3	-5V	2	-5V
5	-12V	4	-5V	3	-5V
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7	-12V	6	-5V	5	-5V
8	-12V	7	-5V	6	-5V
9	-12V	8	-5V	7	-5V
10	-12V	9	-5V	8	-5V
11	-12V	10	-5V	9	-5V
12	-12V	11	-5V	10	-5V

3	-12V	2	-5V	1	-5V
4	-12V	3	-5V	2	-5V
5	-12V	4	-5V	3	-5V
6	-12V	5	-5V	4	-5V
7	-12V	6	-5V	5	-5V
8	-12V	7	-5V	6	-5V
9	-12V	8	-5V	7	-5V
10	-12V	9	-5V	8	-5V
11	-12V	10	-5V	9	-5V
12	-12V	11	-5V	10	-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.

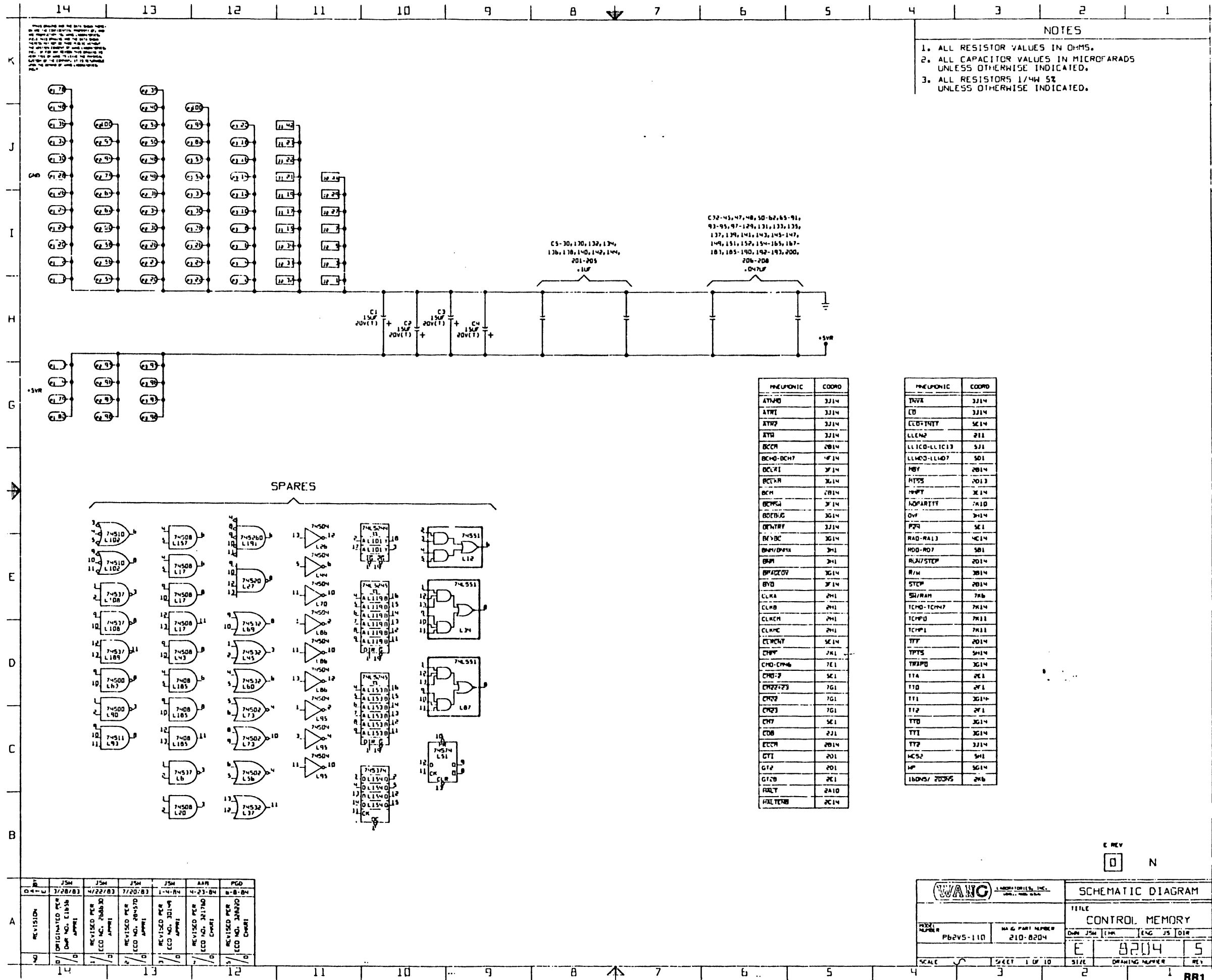
SCREW, PN HD, 6-32 X 1/2", WPN 650-3172
WASH, FLAT, #6, WPN 653-3000
WASH, LOCK, #6, WPN 653-3000
NUT, HEX, 6-32, WPN 652-3000
(4 PLACES)



REVISION	CHK	DATE	BY	DATE	APPROVED BY	DATE
1	DWR	11/17/64	HRM	11/17/64	E ENGR	
2	DCR	11/17/64	JRG	11/17/64	M ENGR	
3	ECO	11/17/64	BMH	11/17/64	MFG ENGR	
4	ECO	11/17/64	ALL	11/17/64		
5	ECO	11/17/64	ALL	11/17/64		

WANG LABORATORIES, INC. 220 WEST 42ND STREET NEW YORK 36, N.Y.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN	HRM	E ENGR	
MODEL NO.		CHK		M ENGR	
VS-85H		E C CONTROL		MFG ENGR	
SEE ENGR SPECIFICATIONS NO. 10-203		TITLE POWER SEQUENCER BD. ASSEMBLY DRAWING			
FINISH		210-8198-R1	C	8198	3
DATE: 1/21/65		WANG PART NUMBER		1/21/65	HRM

1 QQ4



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.

C5-30, 130, 132, 134, 136, 138, 140, 142, 144, 201-205
 .1UF

C32-45, 47, 48, 50-62, 65-91, 93-95, 97-129, 131, 133, 135, 137, 139, 141, 143, 145-147, 149, 151, 152, 154-156, 167, 181, 185-190, 192-193, 200, 206-208
 .047UF

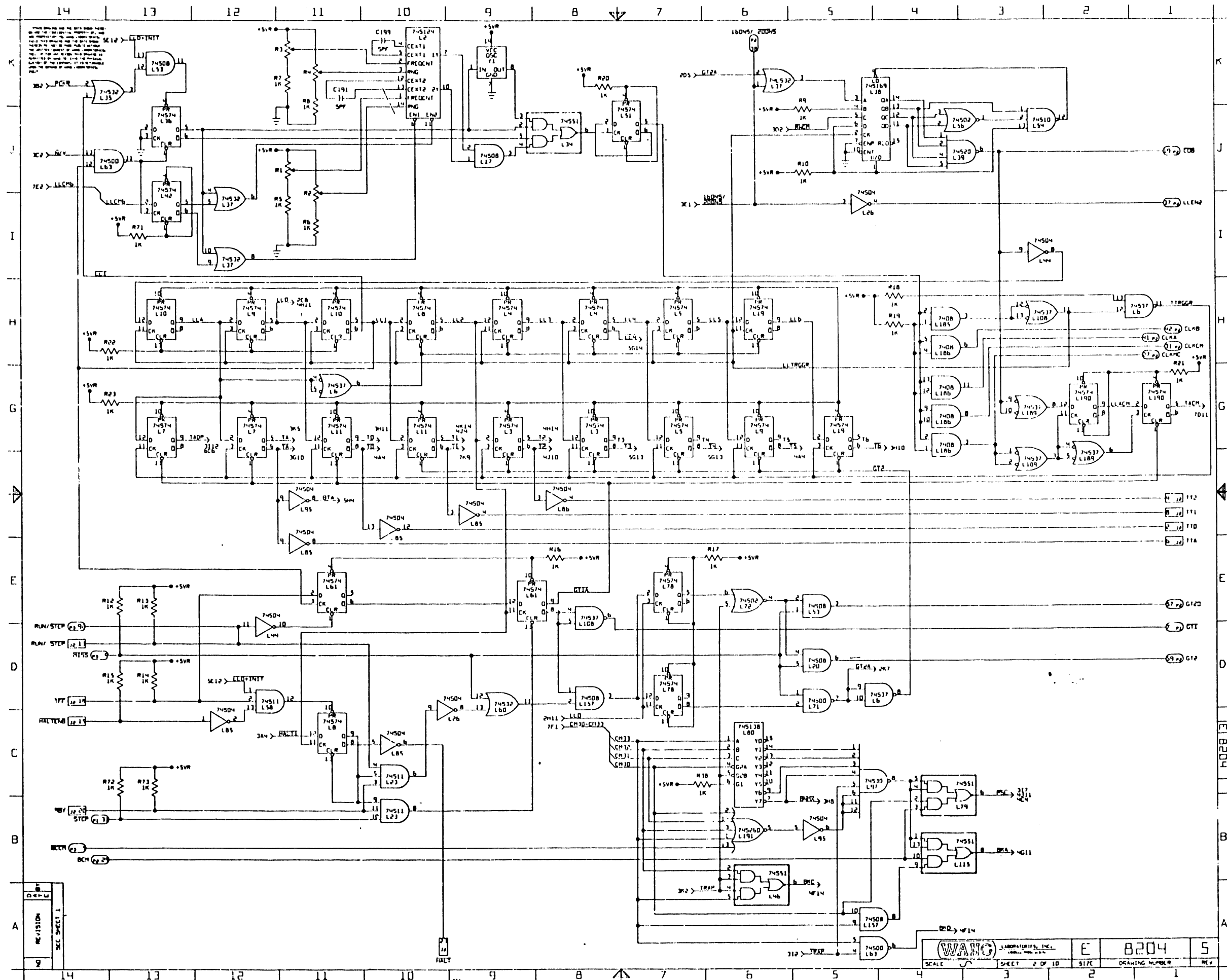
PHONIC	COORD
ATVND	3J14
ATVNI	3J14
ATVNI	3J14
ATVNI	3J14
BCCR	2B14
BCH0-BCH7	4F14
DCR1	3F14
BCCR	3J14
BCH	2B14
BCHS1	3F14
BCHS2	3J14
BCHS3	3J14
BCHS4	3J14
BCHS5	3J14
BCHS6	3J14
BCHS7	3J14
BCHS8	3J14
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BCHS100	3J14

PHONIC	COORD
INVA	3J14
ED	3J14
CCD-TNTT	5C14
LLCN2	2I1
LLIC0-LLIC13	5J1
LLM03-LLM07	5O1
MBY	2B14
MYS	2D13
MPT	3E14
MQPRTT	7A10
DM	3H14
PZQ	5E1
RAD-RA13	4C14
R00-R07	5B1
RJA7/STEP	2D14
R/W	3B14
STEP	2B14
SD/RAM	7H6
TCM0-TCM7	7H14
TCM0	7H11
TCM1	7H11
TFP	2D14
TPTS	5H14
TRAP0	3G14
TTA	2E1
TT0	2F1
TT1	3G14
TT2	2F1
TT0	3G14
TT1	3G14
TT2	3J14
MC52	5H1
MP	5G14
160NS/ 200NS	2H6

REV	DATE	BY	CHKD	DESCRIPTION
1	3/28/83	JSM	JSM	ORIGINAL PER Dwg NO. L1838
2	4/22/83	JSM	JSM	REVISED PER LCD NO. 28630
3	7/20/83	JSM	JSM	REVISED PER LCD NO. 28630
4	1-4-84	JSM	JSM	REVISED PER LCD NO. 30148
5	4-23-84	AAR	AAR	REVISED PER LCD NO. 32178
6	8-8-84	PGD	PGD	REVISED PER LCD NO. 32178

WANG LABORATORIES, INC.		SCHEMATIC DIAGRAM	
TITLE CONTROL MEMORY		DWG NO. [] ENG. JS. DIR.	
REV. NO. P22V5-110	WANG PART NUMBER 210-8204	SIZE E	DRAWING NUMBER 8204
SCALE	SHEET 1 OF 10	DATE	REV. 5

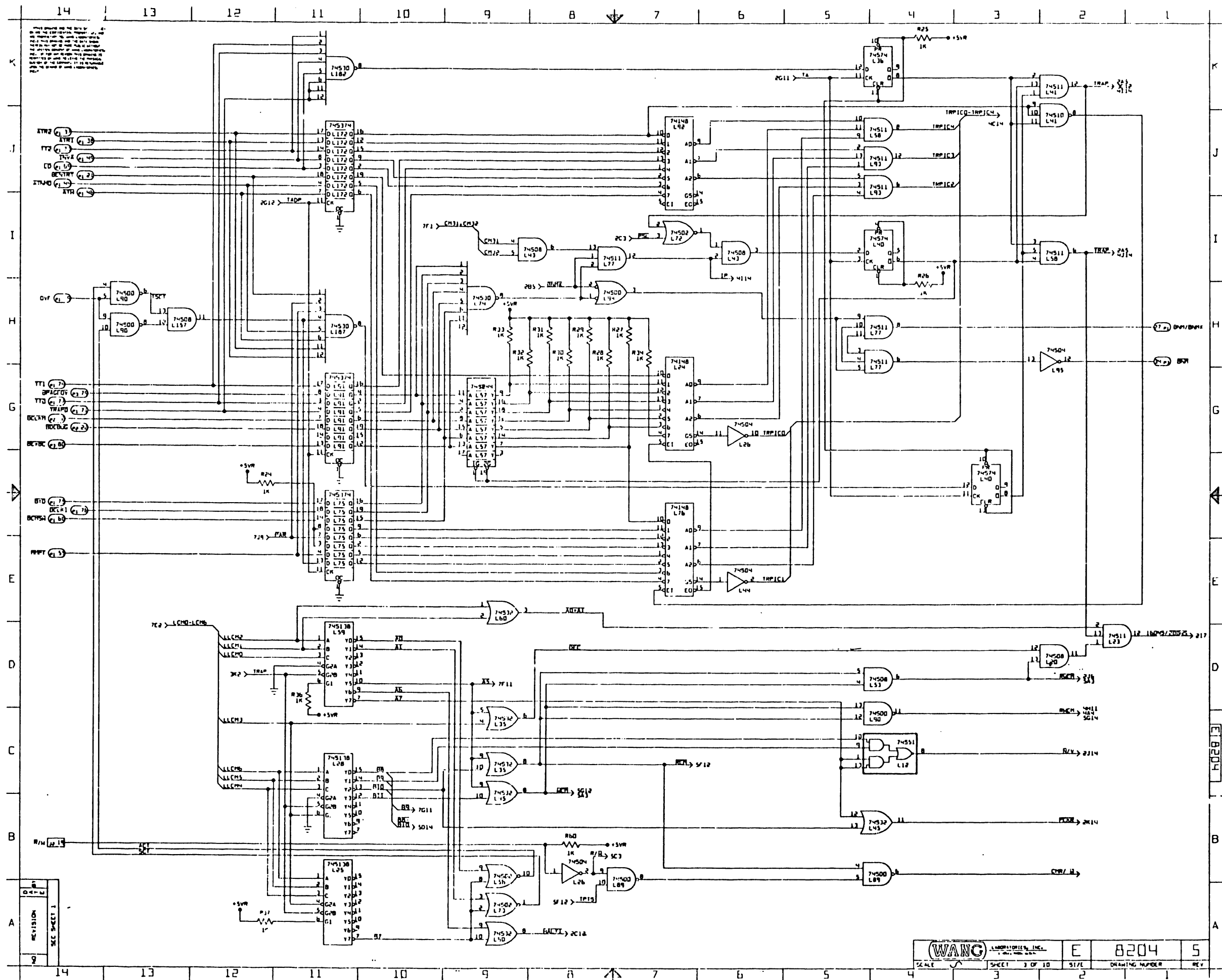
RR1



REV	DESCRIPTION
1	REVISION
2	SEC SHEET 1

SCALE	SHEET 2 OF 10	SIZE	DRAWING NUMBER	REV
			E 8204	5

RR2

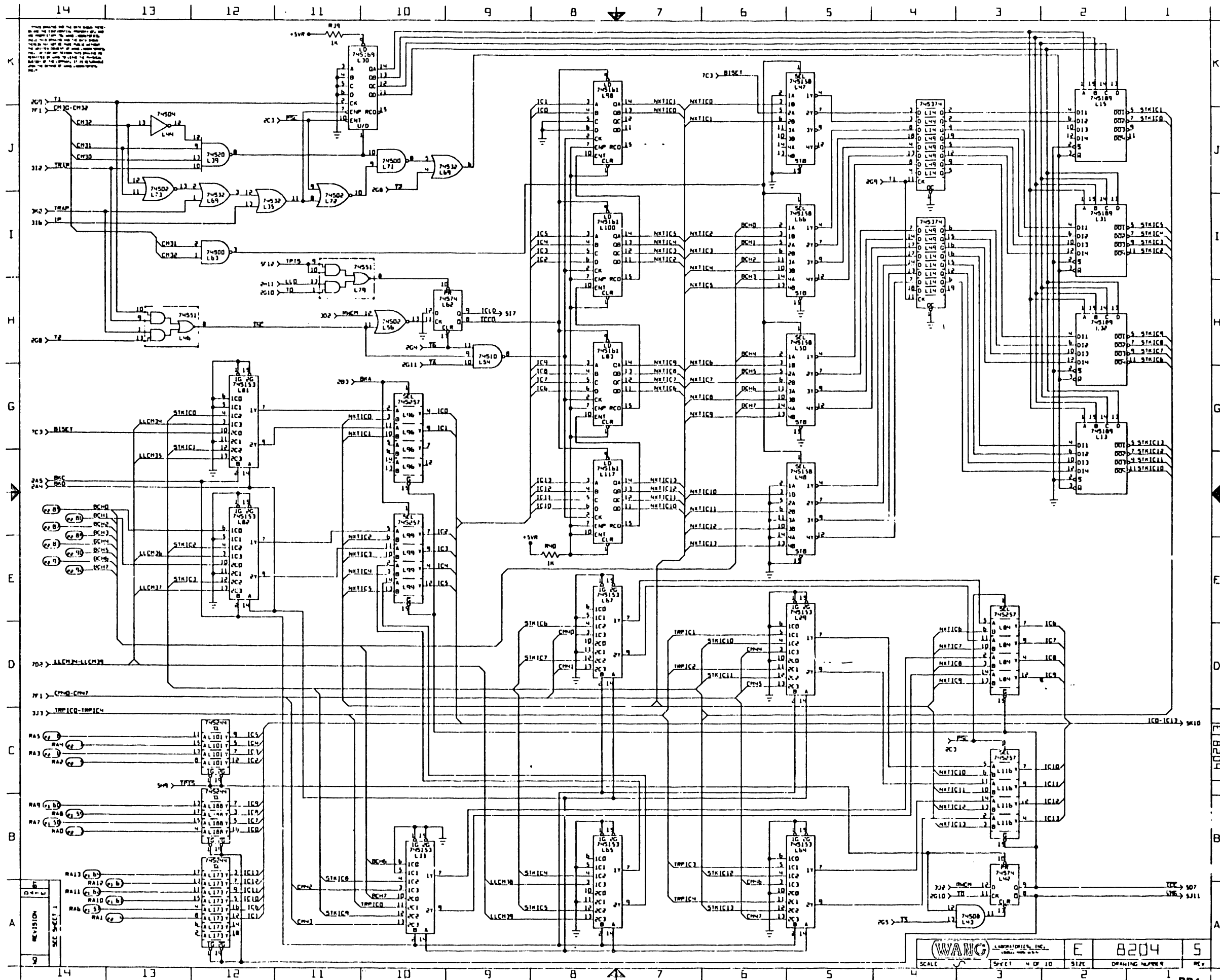


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 LABORATORIES, INC.

REVISION	1
DATE	11-1-74
SHEET 3 OF 10	

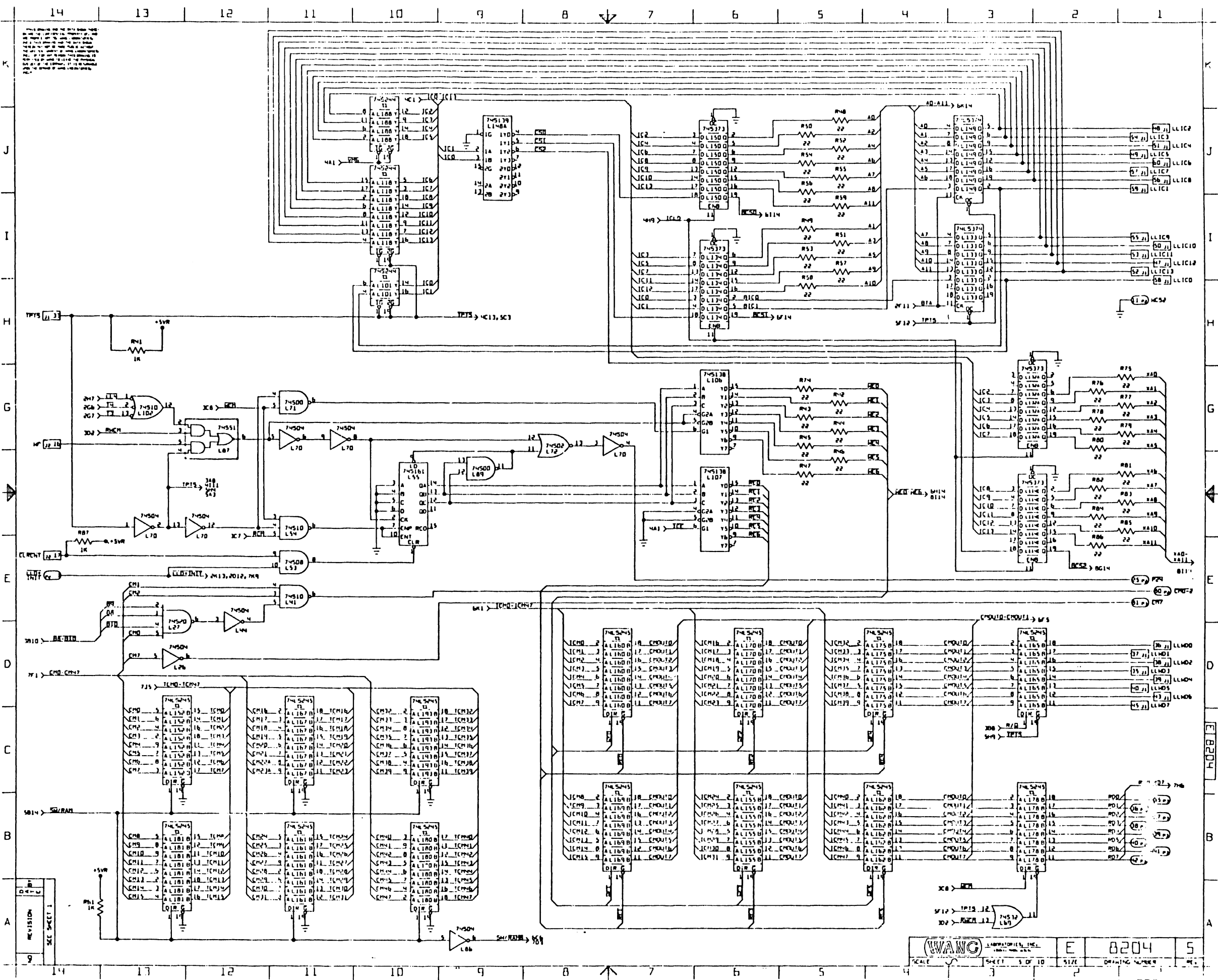
WANG LABORATORIES, INC.	E	8204	5
SCALE	SHEET 3 OF 10	SIZE	DRAWING NUMBER
REV.			

RR3



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REV	DATE	DESCRIPTION
1		ISSUE

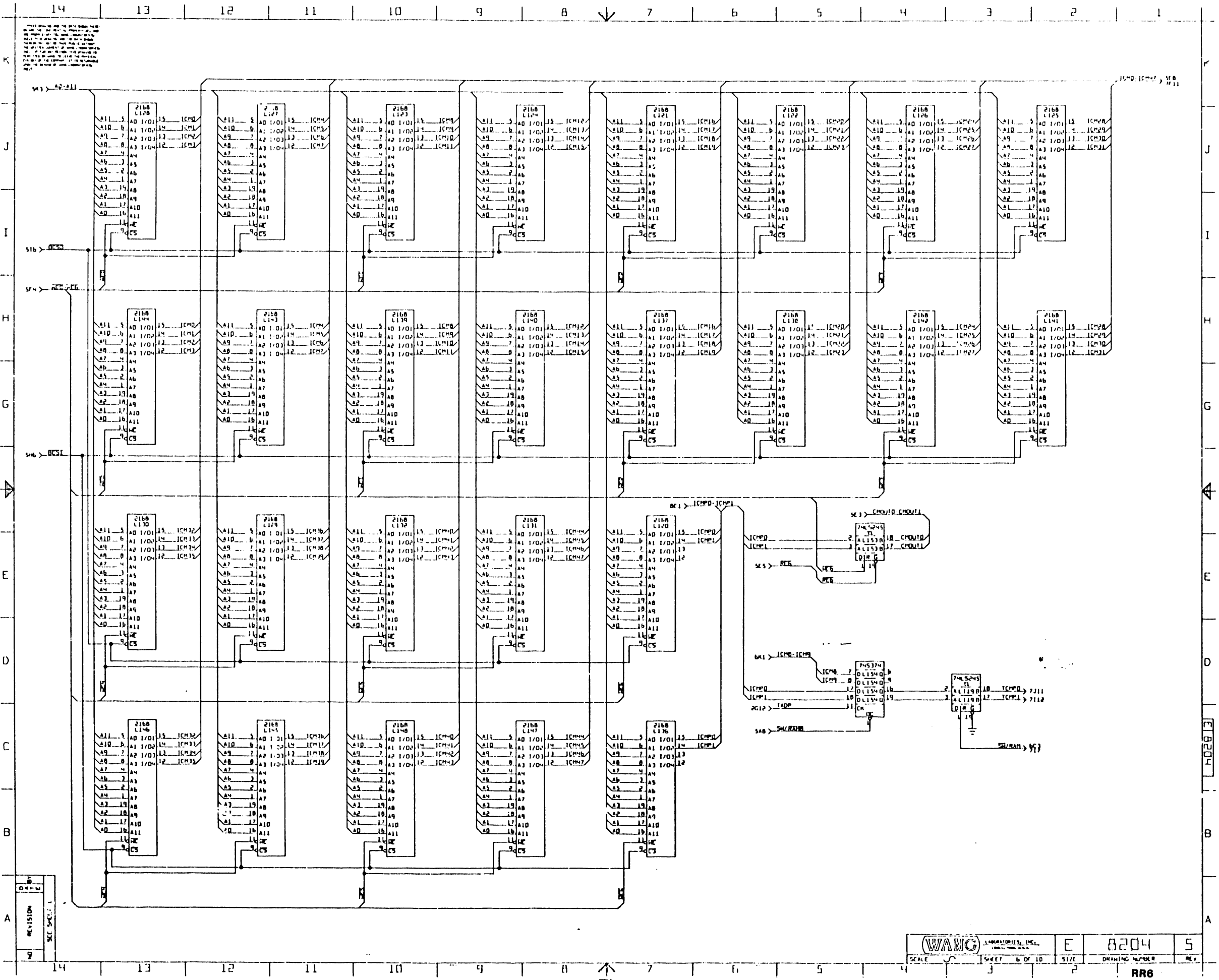


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REVISION
 SHEET 1

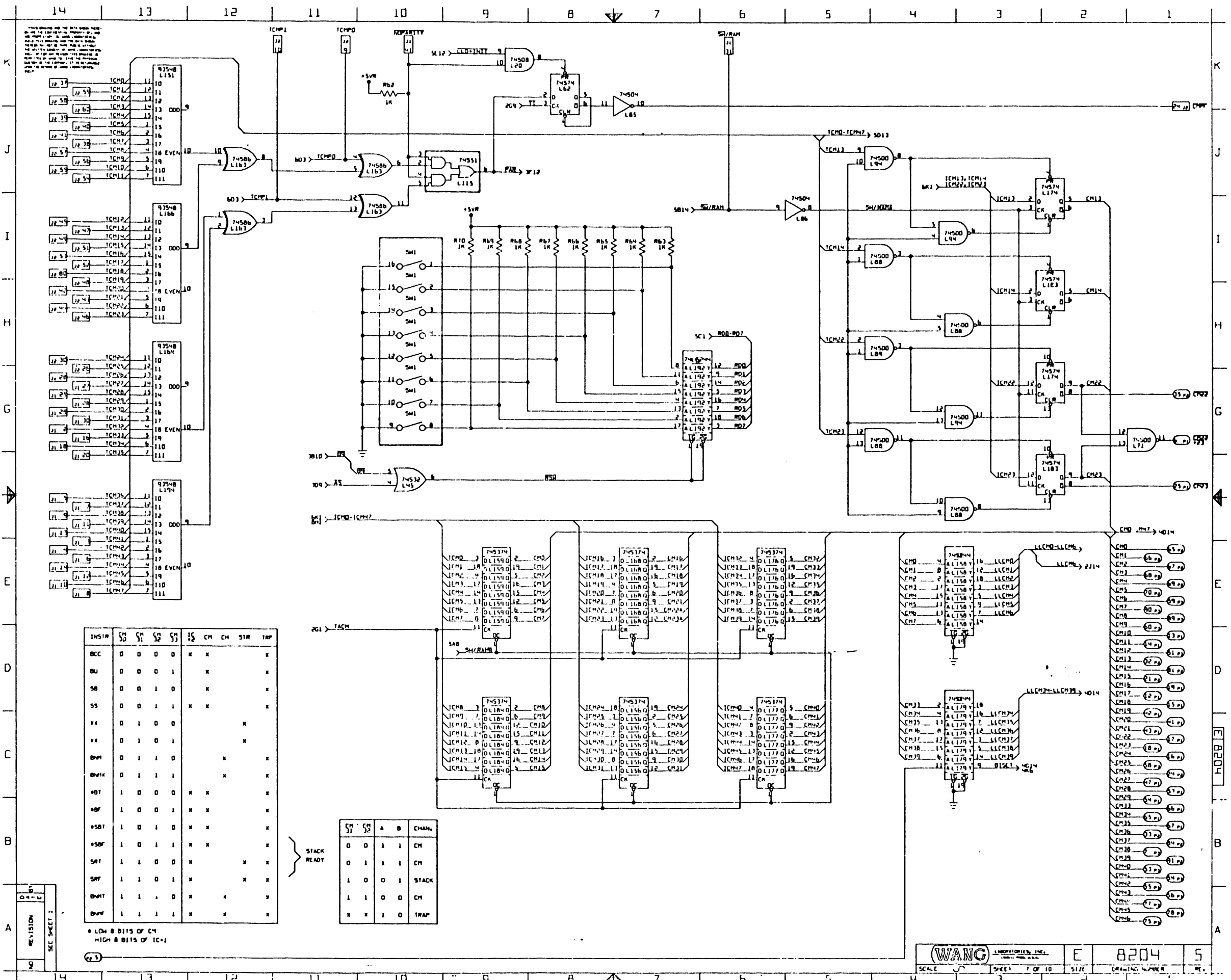
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 E 8204 5
 SCALE SHEET 5 OF 10 SIZE DRAWING NUMBER

RR5



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REVISION	DATE	BY



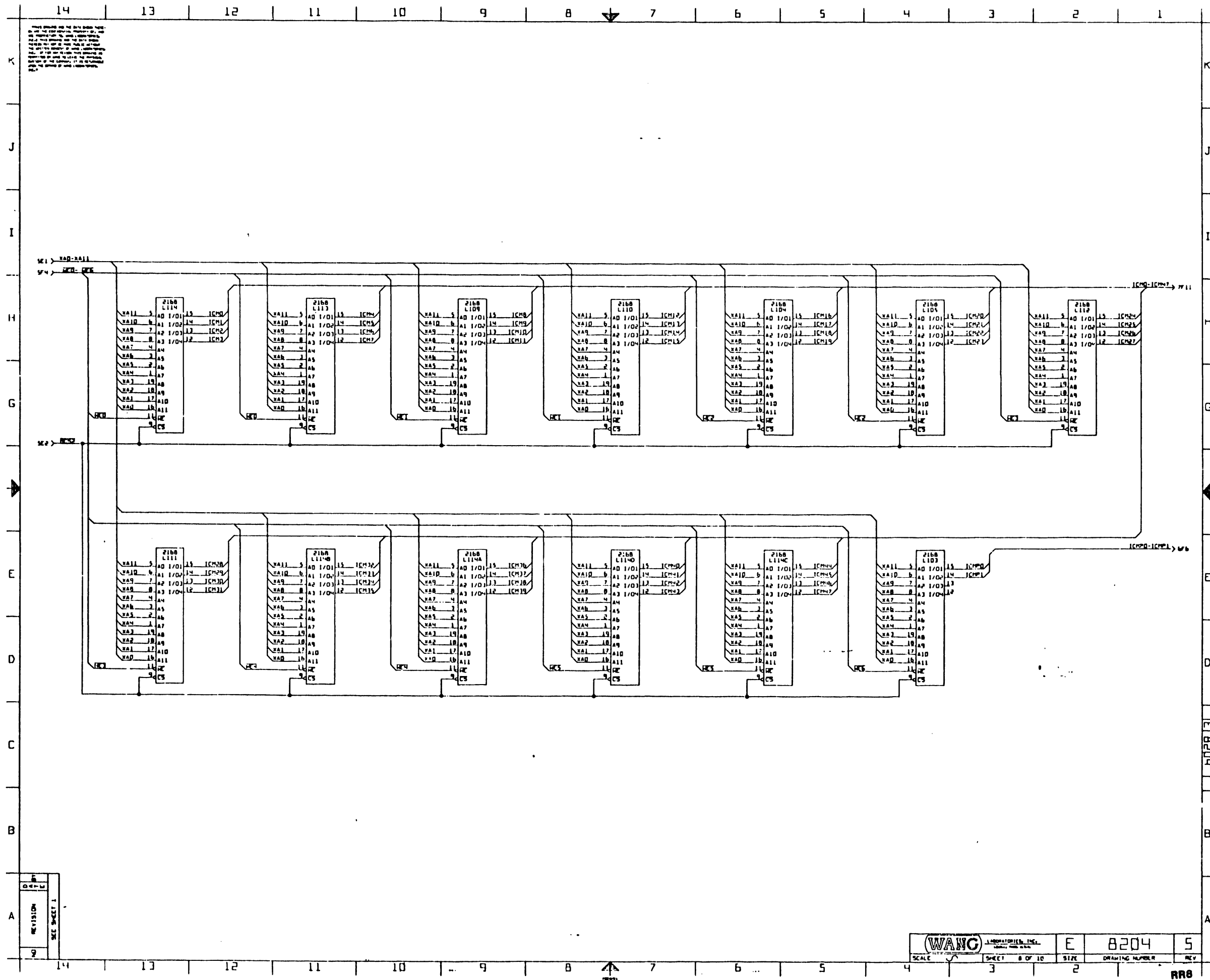
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BCC	0	0	0	0	X	X		X	
BU	0	0	0	1		X		X	
SB	0	0	1	0		X		X	
SS	0	0	1	1	X	X		X	
XX	0	1	0	0			X		
XX	0	1	0	1			X		
DH1	0	1	1	0		X		X	
DH11	0	1	1	1		X		X	
0D1	1	0	0	0	X	X		X	
0D11	1	0	0	1	X	X		X	
0S01	1	0	1	0	X	X		X	
0S011	1	0	1	1	X	X		X	
SAT	1	1	0	0	X		X	X	
SAT1	1	1	0	1	X		X	X	
DH111	1	1	1	0	X	X		X	
DH1111	1	1	1	1	X	X		X	

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

STACK READY

* LOW 8 BITS OF C4
HIGH 8 BITS OF IC-1

REVISION
SEE SHEET 1



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REVISION	DATE

SEE SHEET 1

	SCALE	SHEET 8 OF 10	SIZE	DRAWING NUMBER	REV
			E	8204	5

RR8

(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8204 CONTROL MEMORY
 ASSEMBLY LEVEL & TITLE: 200 B204
 SCHEMATIC REVISION (S): 06
 DATE OF MOST RECENT ECO: 3/28/84

CREATED: 04/03/84 13:09
 LAST MODIFIED: 04/18/84 13:36 BY: LAB
 EDITING REVISION: 4

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C191	300-1000-	SP7	CAP CERAMIC MONO RADIAL 50V +/-0.5PF 8PD		2
C199	300-1930-	.1U	CAP CERAMIC MONO RAD +50% -20% 50V 25U		30
C201 - C208	300-1946-	.047U	CAP CERAMIC MONO AXIAL +50 -20% 50V 25U		101
C1 - C4	300-4022-	15U	CAP TANT AXIAL 10% 20V		4
SM1	320-1803-	SWITCH	SLIDE SPST 8 POS		1
R42 - R59	310-1023-	22.000	RES FIXED METAL FILM 1/4W 5% 200PPM		31

M

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
R6 - R8	310-2040-	470.000	RES FIXED METAL FILM 1/4W 5% 200PPM		4
R9 - R10	310-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		46
R11 - R12	310-1010-	1K	RES TRIMMER .375" SQUARE SIDE ADJ 10% 1 TURN		4
R13 - R14	350-0441-	68 COMT	COMB PC HEADLR DUAL ROW .100 R/A W/LOCK/CLMCT		2
R15 - R16	376-0001-	7488	IC QUAD 2-INPUT AND GATE		2
R17 - R18	376-0101-	74S217	IC QUAD DATA SELECT OR/MULTIPLEXERS		4
R19 - R20	376-0171-	74148	IC 8-LINE-TO-3-LINE OCTAL PRIORITY ENCODER		3
R21 - R22	376-0104-	74S51	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		4
R23 - R24	376-0107-	74504	IC HEX INVERTER		4
R25 - R26	376-0100-	74S30	IC 8-INPUT NAND GATE		4
R27 - R28	376-0109-	74S02	IC QUAD 2-INPUT POSITIVE-NOR GATES		3
R29 - R30	376-0200-	74S08	IC QUAD 2 INPUT POSITIVE AND GATES		8
R31 - R32	376-0202-	74S74	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		19

M

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L35	376-0205-	74S32	IC QUAD 2-INPUT OR GATE		8
L36	376-0206-	74S248	IC DUAL 5-INPUT EXPANDER		1
L37	376-0215-	74S153	IC DUAL 4-INPUT MULTIPLEXER		7
L38 - L39	376-0220-	74S09	IC QUAD 2-INPUT NAND GATE		6
L40 - L41	376-0230-	74S20	IC DUAL 4-INPUT POSITIVE NAND GATE		2
L42	376-0237-	74S11	IC TRIPLE 3-INPUT AND GATE		4
L43 - L44	376-0238-	74S10	IC TRIPLE 3-INPUT NAND GATE		3
L45	376-0271-	74S86	IC QUAD 2 IN EXCLUSIVE OR GATE		1
L46	376-0273-	74S124	IC DUAL VOLTAGE CONTROLLED OSC (VCO)		1
L47	376-0276-	74S161	IC 5TH 4-BIT BINARY COUNTER W/DIRECT CLEAR		8
L48 - L49	376-0280-	74LS245	IC OCTAL BUS TRANSCEIVER TRI-STATE OUTPUTS		16
L50 - L51	376-0206-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE		2
L52	376-0280-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		3
L53	376-0290-	74S37	IC QUAD 2-INPUT NAND BUFFER		3

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L54	376-0290-	74S138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		6
L55 - L56	376-0301-	74S158	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
L57 - L58	376-0305-	74S374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		12
L59 - L60	376-0306-	74S373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		4
L61 - L62	376-0331-	74S169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		2
L63	376-0333-	74S139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1
L64 - L65	376-0338-	74S244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		8
L66 - L67	376-0340-	93S48	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		4
L68 - L69	376-0349-	74S189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		4
L70 - L71	376-9001-	SKT 14	IC SOCKET P*H DIL PC MOUNT		1
L72 - L73	376-9020-	SKT 20	IC SOCKET ; 0 PIN DIL PC MOUNT		39

PCB

DATE	BY	DATE	APPROVED BY	DATE
	DWR		E ENGR	
	CHM		M ENGR	
			MFG ENGR	

MATERIAL: MODEL NO. SEE ENG'G SPECIFICATIONS

TITLE: CONTROL MEMORY

PARTS: FOR USE AS NOTED PER BOM FILED IN 1/84

SCALE: 1:1

DATE: 3/28/84

BY: LAB

11

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17"

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5.8"

BOARD NO. & TITLE: C8204 CONTROL MEMORY SCHEMATIC REVISION (S): 05 SHEET OF PAGE 8
 * 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)

WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
376-0131-	745257	IC QUAD DATA SELECT OR/MULTIPLEXERS		4
376-0197-	745204	IC HEX INVERTER		6
376-6198-	745330	IC 8-INPUT NAND GATE		6
376-0199-	745207	IC QUAD 2-INPUT POSITIVE-NOR GATES		3
376-0300-	745208	IC QUAD 2-INPUT POSITIVE AND GATES		3
376-0202-	745274	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		19
376-0705-	745232	IC QUAD 2-INPUT OR GATE		8
376-0228-	745220	IC QUAD 2-INPUT NAND GATE		6
376-0230-	745220	IC DUAL 4-INPUT POSITIVE NAND GATE		2
376-0237-	745211	IC TRIPLE 3-INPUT AND GATE		4
376-0238-	745210	IC TRIPLE 3-INPUT NAND GATE		3
376-0271-	745286	IC QUAD 2 IN EXCLUSIVE OR GATE		1
376-0298-	745218	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		6
376-0301-	745238	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
376-0305-	745274	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		12
376-0306-	745273	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		4
376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		2
376-0333-	745138	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
 DNR 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/TYP	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 4KX4 NMOS SRAM 55NS		39
L109 - L110					
L114A					
L114B					
L114C					
L114D					
L120 - L122					
L126 - L148					

*** END-OF-REPORT ***

 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. SEE AS NOTED HOLE ± 0.10 FRACTION ± 0.005 HOLE ± 0.05 ANG ± 1.50 FRACTION	TITLE CONTROL MEMORY			
	210-8204	C	8204	5
SCALE 1/10 OF 10	WANG PART NUMBER	1/21	DRAWING NUMBER	8204

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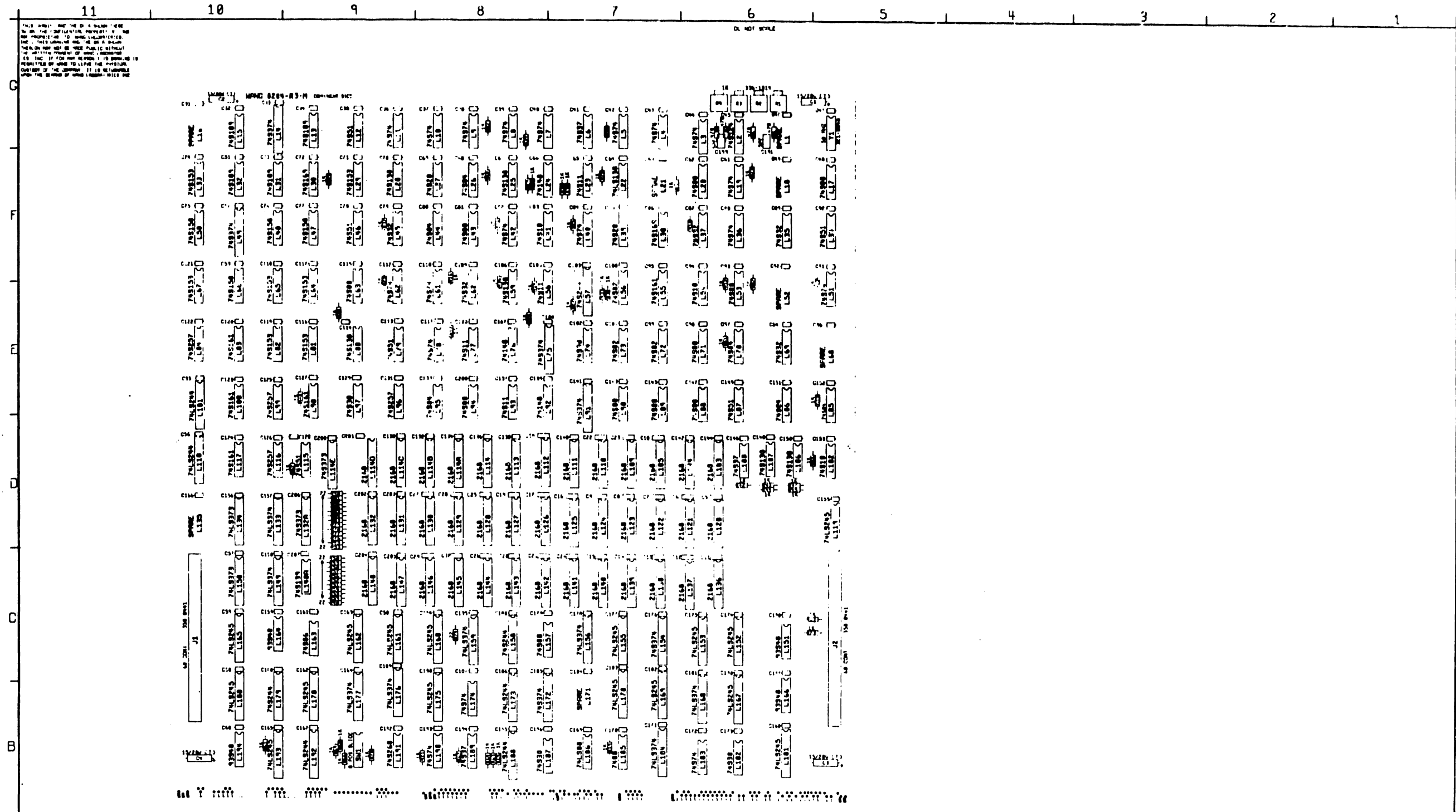
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REV	DATE	BY	CHKD	APP'D
1	8/23/83	RLA	RLA	
2	11/03/83	RLA	RLA	
3	12/24/83	RLA	RLA	

NOTES: UNLESS OTHERWISE SPECIFIED
 1 ALL CAPS ARE 0.01 CAPS NPW 300-1466
 EXPRESSED IN MICROFARADS
 C5-C30, C130, C132, C134, C136, C138, C140, C142, C144, C201-C205
 ARE 1UF 50V CH F NPW 300-1438
 2 ALL RESISTORS ARE 1/4W 5 PERCENT EXPRESSED IN OHMS
 L103-L105, L108-L114, L116-L120, L122-L132
 L136-L140 LOAD 28 PIN SOCKETS NPW 376-1028
 3 14 LOAD 14 PIN SOCKET NPW 376-1001

WANG LABORATORIES, INC.		BY: J. ROCKAW	DATE: 12/24/83
MODEL NO: PHOOLP VS-110		CHKD: []	APP'D: []
TITLE: ASSEMBLY DRAWING CONTROL MEMORY		PART NO: 210-0204-R3	
REV: 3		QTY: 8204	REV: 3

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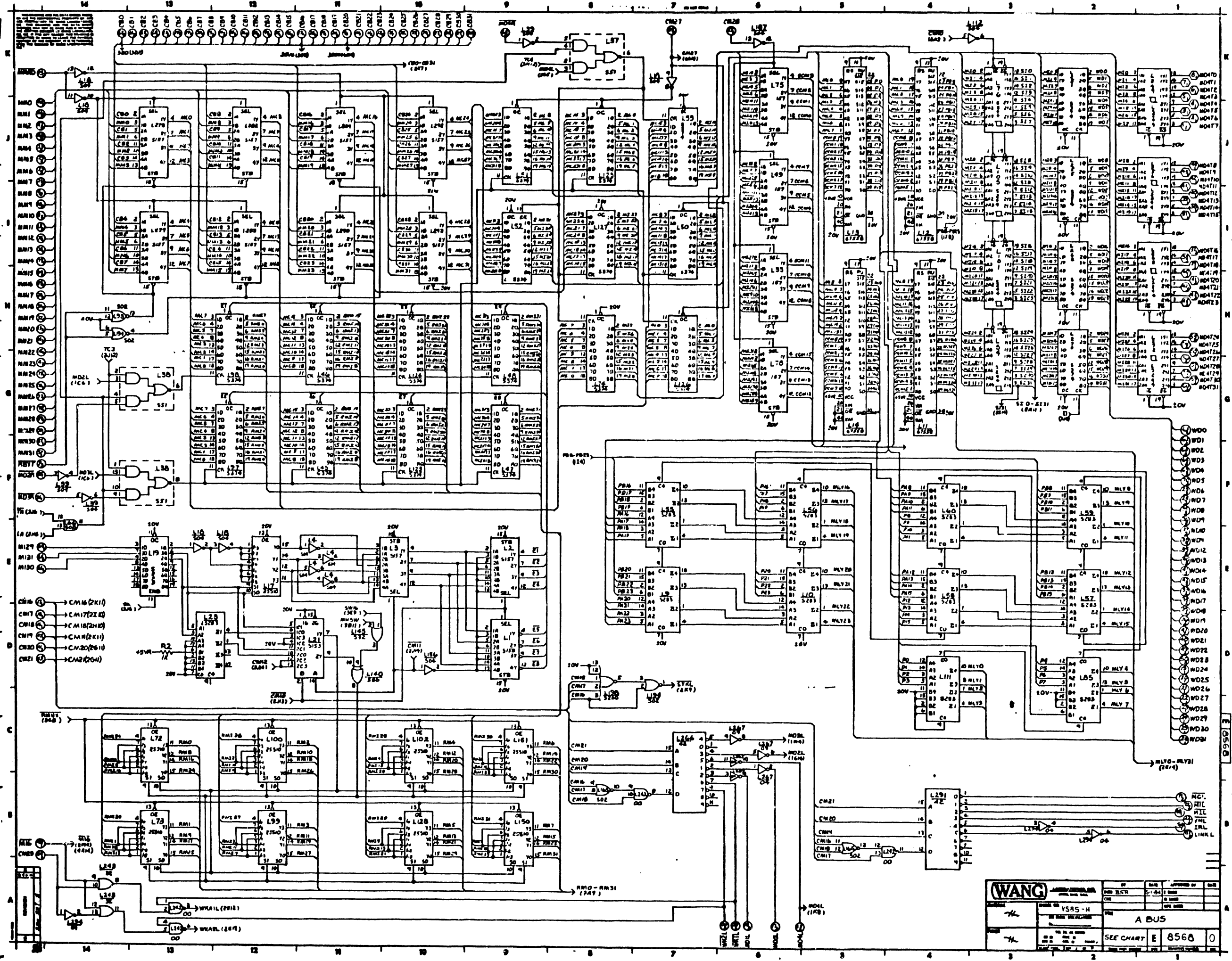
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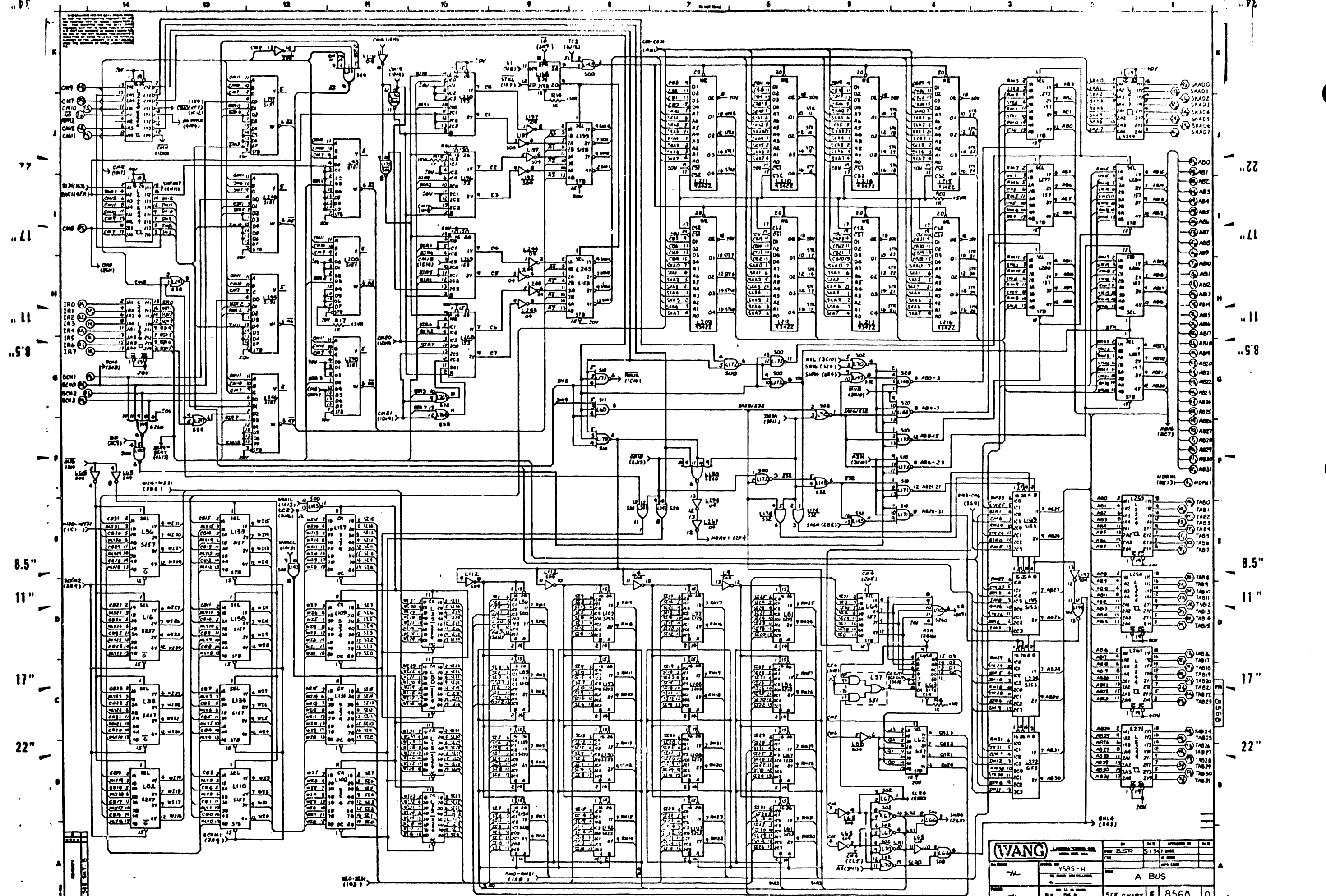
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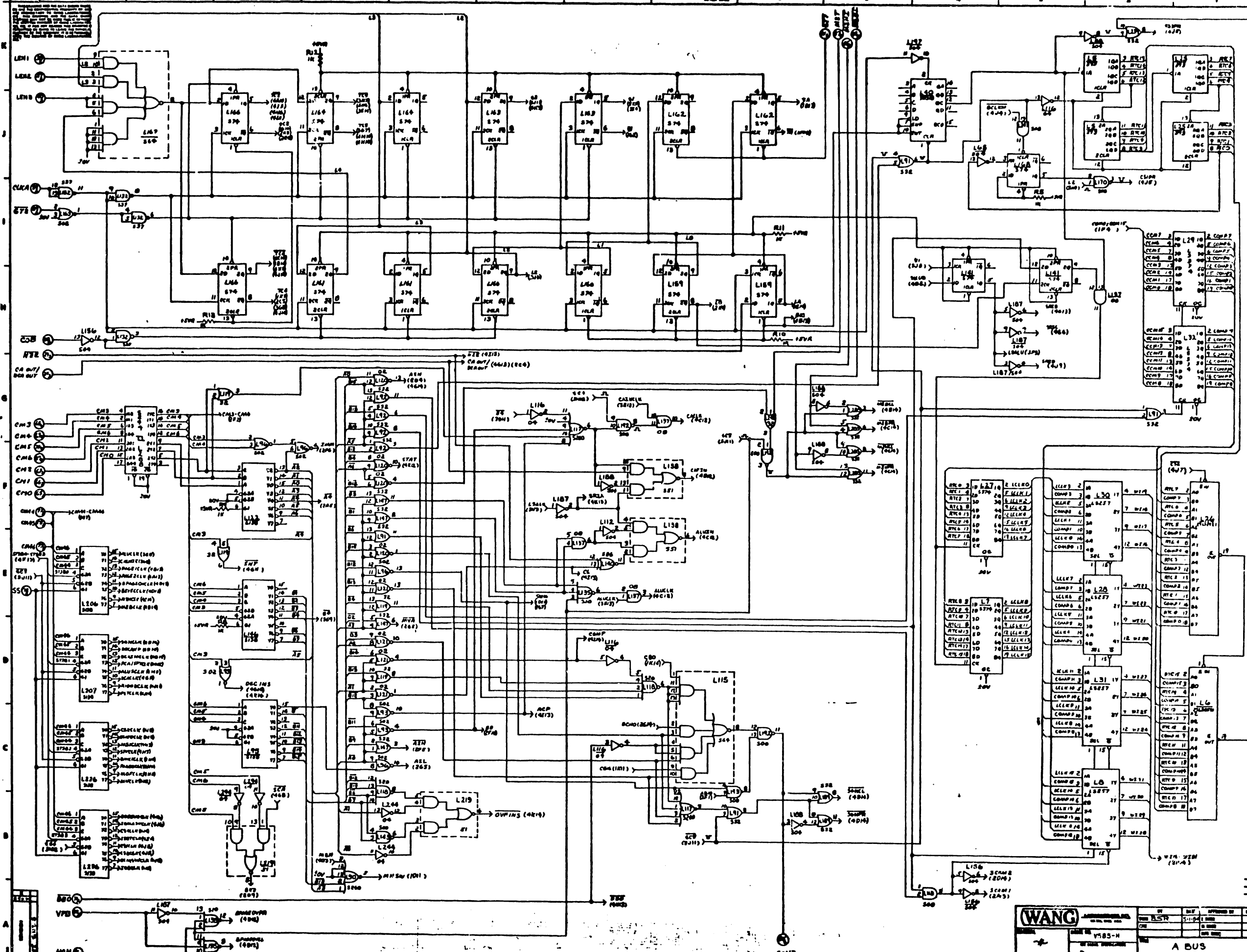
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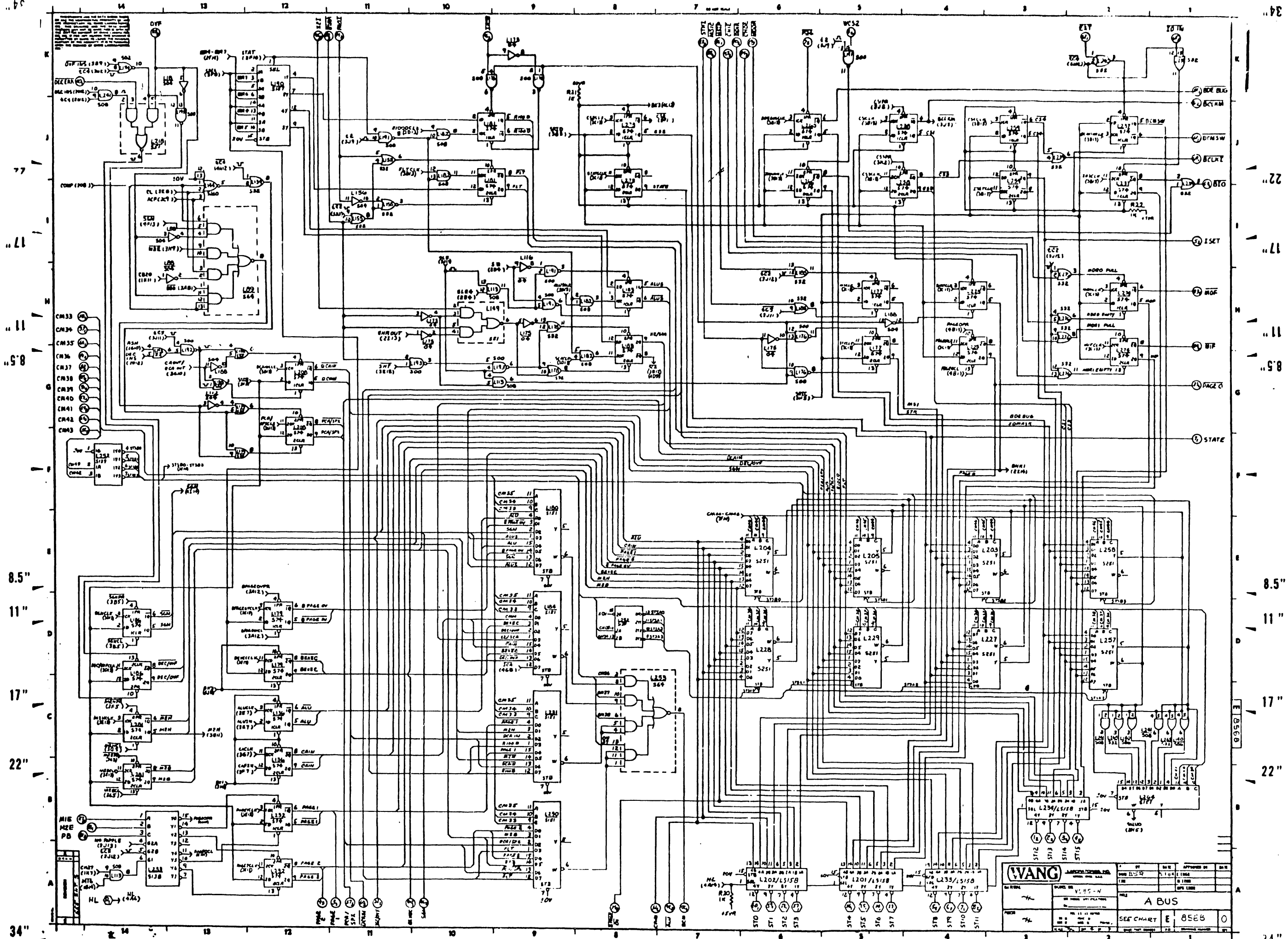
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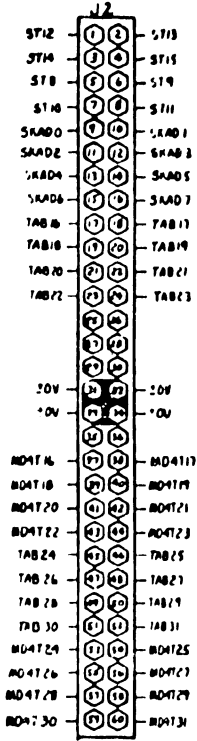
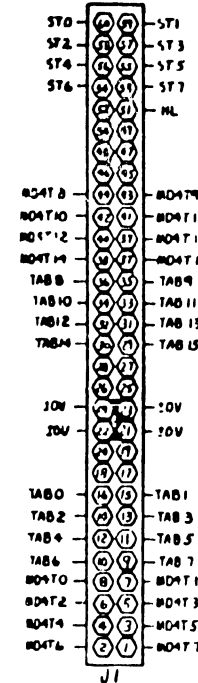
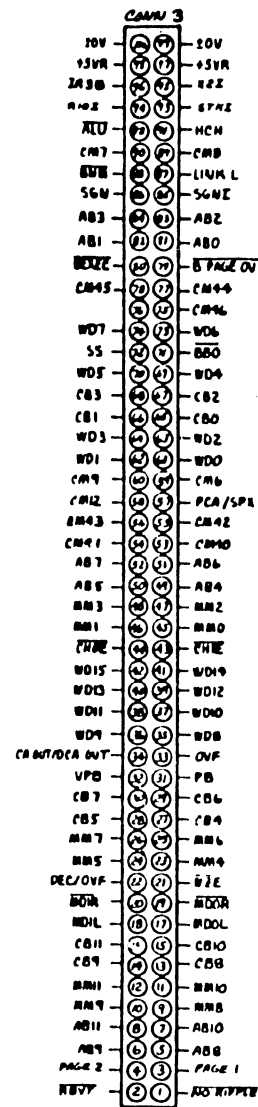
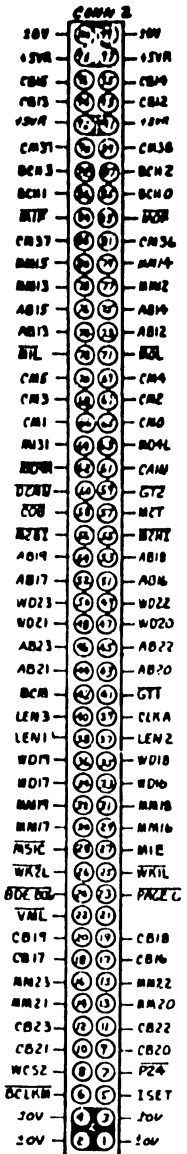
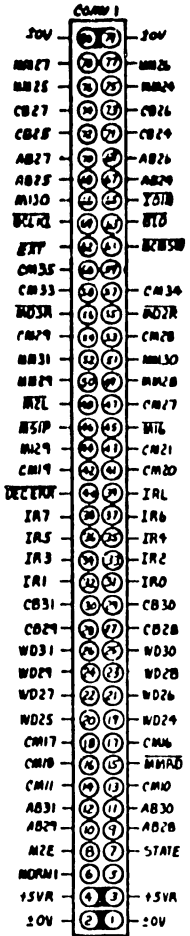
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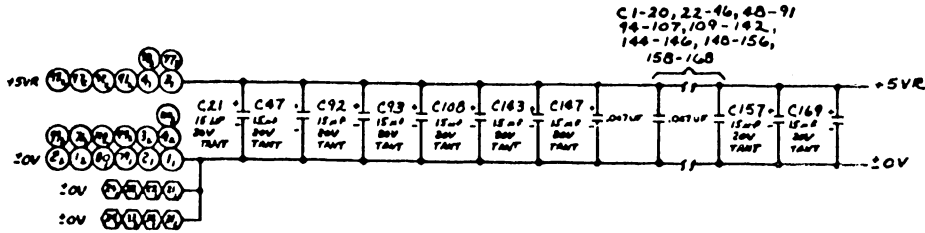
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A-BUS		DATE	APPROVED BY	DATE
SEE CHART		E	85EB	0

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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ABU	4B7		
		SIK L	1B1
		SIK1-1B2	1B10
AB5	3A0		
AB6-AB8	4B4	ADU	4A7
AB9	4B1	ADG	4A8
AB10	4B1	ADH	1A1
AB11	4B1	ADH	1A2
AB12	4B1	ADH	1A3
AB13	4B1	ADH	1A4
AB14	4B1	ADH	1A5
AB15	4B1	ADH	1A6
AB16	4B1	ADH	1A7
AB17	4B1	ADH	1A8
AB18	4B1	ADH	1A9
AB19	4B1	ADH	1A10
AB20	4B1	ADH	1A11
AB21	4B1	ADH	1A12
AB22	4B1	ADH	1A13
AB23	4B1	ADH	1A14
AB24	4B1	ADH	1A15
AB25	4B1	ADH	1A16
AB26	4B1	ADH	1A17
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AB28	4B1	ADH	1A19
AB29	4B1	ADH	1A20
AB30	4B1	ADH	1A21
AB31	4B1	ADH	1A22
AB32	4B1	ADH	1A23
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AB35	4B1	ADH	1A26
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AB37	4B1	ADH	1A28
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AB62	4B1	ADH	1A53
AB63	4B1	ADH	1A54
AB64	4B1	ADH	1A55
AB65	4B1	ADH	1A56
AB66	4B1	ADH	1A57
AB67	4B1	ADH	1A58
AB68	4B1	ADH	1A59
AB69	4B1	ADH	1A60
AB70	4B1	ADH	1A61
AB71	4B1	ADH	1A62
AB72	4B1	ADH	1A63
AB73	4B1	ADH	1A64
AB74	4B1	ADH	1A65
AB75	4B1	ADH	1A66
AB76	4B1	ADH	1A67
AB77	4B1	ADH	1A68
AB78	4B1	ADH	1A69
AB79	4B1	ADH	1A70
AB80	4B1	ADH	1A71
AB81	4B1	ADH	1A72
AB82	4B1	ADH	1A73
AB83	4B1	ADH	1A74
AB84	4B1	ADH	1A75
AB85	4B1	ADH	1A76
AB86	4B1	ADH	1A77
AB87	4B1	ADH	1A78
AB88	4B1	ADH	1A79
AB89	4B1	ADH	1A80
AB90	4B1	ADH	1A81
AB91	4B1	ADH	1A82
AB92	4B1	ADH	1A83
AB93	4B1	ADH	1A84
AB94	4B1	ADH	1A85
AB95	4B1	ADH	1A86
AB96	4B1	ADH	1A87
AB97	4B1	ADH	1A88
AB98	4B1	ADH	1A89
AB99	4B1	ADH	1A90
AB100	4B1	ADH	1A91
AB101	4B1	ADH	1A92
AB102	4B1	ADH	1A93
AB103	4B1	ADH	1A94
AB104	4B1	ADH	1A95
AB105	4B1	ADH	1A96
AB106	4B1	ADH	1A97
AB107	4B1	ADH	1A98
AB108	4B1	ADH	1A99
AB109	4B1	ADH	1A100

IC TYPE	LOCATION	SOURCE
74502	L168	1
74504	L169	2
7404	L170	1
74508	L171	1
74511	L172	2
74620	L173	1
74532	L174	1
74532	L175	1
74532	L176	2
74532	L177	2
74532	L178	2
74532	L179	2
74532	L180	2
74532	L181	2
74532	L182	2
74532	L183	2
74532	L184	2
74532	L185	2
74532	L186	2
74532	L187	2
74532	L188	2
74532	L189	2
74532	L190	2
74532	L191	2
74532	L192	2
74532	L193	2
74532	L194	2
74532	L195	2
74532	L196	2
74532	L197	2
74532	L198	2
74532	L199	2
74532	L200	2



210 - 209 - 877 OR 370			
210	209	L11-16	L209-216
8848-A	8500	877-0356	377-0361



(WANG) APPROVED BY: [Signature] DATE: 5/1/77 APPROVED BY: [Signature] DATE: 5/1/77

VS85-H

A BUS

SEE CHART E 8568 0

(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C8568 "A BUS" BOARD (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 2
 ASSEMBLY: 209 CREATED: 05/02/84 14:21
 ARTWORK REVISION (R): 00 LAST MODIFIED: 05/08/84 08:38 BY: LAB
 ASSEMBLY REVISION (A): 00 EDITING REVISION: 1
 SCHEMATIC REVISION (S): 00
 DWT OR HOST RECENT ECO: E2350

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C1 - C20	300-1966-	.047U	CAP CERAMIC MONO AXIAL +50 -20% 50V Z5U		160
C22 - C40					
C40 - C91					
C94 - C107					
C109 - C142					
C144 - C146					
C148 - C156					
C158 - C168					
C21	300-4022-	10U	CAP TANT AXIAL 10% 20V		9
C92 - C93					
C100					
C143					
C147					
C187					
C189					
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					
R17					
R19 - R20					
R22					
J1 - J2	350-0007-	60 COMT	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		2
L242	376-0002-	7400	IC QUAD 2-INPUT NAND GATE		1
L264	376-0008-	7442	IC 1-OF-10 DECODER		2
L291					
L316	376-0010-	7404	IC HEX INVERTER		8
L376					
L244					
L267					
L296					
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					
L208					
L225					
L232					
L237 - L238					
L259 - L260					
L273 - L274					
L281					
L8	376-0204-	74LS257A	IC QUAD 2-LINE TO 1-LINE DATA SEL/MUX		4
L28					
L30 - L31					
L91 - L92	376-0205-	74532	IC QUAD 2-INPUT OR GATE		16
L130					
L140					
L147					
L155					
L174					
L178					
L188					
L189					
L239 - L240					
L247					
L265					
L276					
L288					
L90	376-0206-	74S260	IC DUAL 8-INPUT EXPANDER		4
L117					
L144					
L190					
L21	376-0218-	74S153	IC DUAL 4-INPUT MULTIPLEXER		4
L169					
L198					
L222					
L2 - L3	376-0217-	74S157	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.
L260 - L269					
L137	376-0001-	7408	IC QUAD 2-INPUT AND GATE		1
L33	376-0002-	74157	IC QUAD 2-INPUT MULTIPLEXER		11
L40					
L64					
L75					
L78					
L275					
L277					
L280					
L284					
L286 - L287					
L119	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		2
L243					
L15	376-0131-	74S267	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		6
L138					
L149					
L210					
L6					
L10	376-0107-	74S04	IC HEX INVERTER		10
L39					
L65					
L80					
L112					
L154					
L187 - L184					
L107					
L67	376-0199-	74S82	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L70					
L93					
L96					
L145					
L194					
L66	376-0200-	74S08	IC QUAD 2 INPUT POSITIVE AND GATES		6
L113					
L182					
L241					
L89					
L115	376-0201-	74S64	IC 4-2-3-2 INPUT AND/OR/INVERT GATE		6
L167					
L233					
L136	376-0202-	74S74	IC DUAL D-TYPE POS EDGE TRIGD R/F W/PRESET/C		28
L141					
L150 - L164					
L164					
L168					

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-	74S18	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
L249 - L250					
L254					
L256					
L261					
L263					
L271 - L272					
L281 - L282					
L214 - L235					
L132	376-0293-	74LS158	IC QUAD 2-INPUT MULTIPLEXER		4
L95	376-0296-	74S32	IC QUAD 2-INPUT NAND BUFFER		1
L122	376-0298-	74S138	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	376-0305-	74S374	IC OCTAL D-TYPE EDGE-TRIG R/F TRI-STATE		30
L18					
L27					
L35					
L45 - L46					
L80 - L83					
L74					
L79 - L80					
L97 - L98					
L108 - L109					
L123 - L127					
L131					
L187					
L261					
L255					
L262					
L270					

 WANG LABORATORIES, INC. LOWELL, MA U.S.A.	BY	DATE	APPROVED BY	DATE
	OWN		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)			
SCALE	1/4" = 1" (SEE CHART)	SHT 6 OF 7	WANG PART NUMBER	SIZE
			8568	REV
				0

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-	745373	IC OCTAL 0-TYPE LATCH TRI-STATE OUTPUTS		1
L6	376-0317-	28LS2821	IC 8-BIT COMPARATOR		2
L20					
L203 - L205	376-0320-	745281	IC 8-INPUT MULTIPLEXER		8
L227 - L229					
L237 - L250					
L5	376-0330-	74393	IC DUAL 4-BIT BINARY COUNTER		3
L28					
L23	376-0332-	74LS283	IC 4-BIT BINARY FULL ADDER		1
L232	376-0333-	74S139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1
L233	376-0334-	74S240	IC OCTAL BUFFER/LINE DRIVER		1
L9 - L10	376-0338-	74S283	IC 4-BIT BINARY FULL ADDER		10
L58 - L60					
L88					
L111					
L93	376-0336-	74S181	IC 1-OF-8 DATA SEL/MUX		13
L100					
L104					
L200					
L224					
L230 - L231					
L246					
L248					
L264					
L296					
L297 - L298					
L61	376-0337-	74S283	IC DUAL DATA SELECTOR/MULTIPLEXER TRI-STATE		10
L77					
L81					
L83 - L84					
L86 - L87					
L103 - L104					
L106 - L107					
L129 - L130					
L182 - L184					
L84	376-0338-	74S244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		7
L76					
L101					
L105					
L221					
L280					
L296					
L17	376-0339-	28S10	IC 4-BIT SHIFTER TRI-STATE OUTPUTS		9
L72 - L73					
L99 - L100					
L102					
L120					
L180 - L181					
L83	376-0427-	74S198	IC 4-BIT PARRALLEL ACCESS SHIFT REGISTER		1
Q2 - Q9	376-9010-		IC SOCKET 22 PIN DIL PC MOUNT		8

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	376-9011-		SKT 40 SOCKET 40 PIN DIL PC MOUNT		4
Q1	810-8568-		PCB		1
TP1 - TP31	664-3822-		TEST PTS TEST POINTS		31

BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1) SCHEMATIC REVISION (S): 00 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)				
376-0131-	74S257	IC QUAD DATA SELECT OR/MULTIPLEXERS		4
376-0184-	74S51	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		5
376-0197-	74S04	IC HEX INVERTER		10
376-0199-	74S02	IC QUAD 2-INPUT POSITIVE-NOR GATES		4
376-0208-	74S08	IC QUAD 2-INPUT POSITIVE AND GATES		4
376-0201-	74S64	IC 4-2-3-2 INPUT AND/OR-INVERT GATE		4
376-0203-	74S74	IC DUAL 0-TYPE POS EDGE TRIGRD F/F W/PRESET/C		2
376-0205-	74S32	IC QUAD 2-INPUT OR GATE		28
376-0206-	74S260	IC DUAL 3-INPUT EXPANDER		16
376-0215-	74S153	IC DUAL 4-INPUT MULTIPLEXER		4
376-0217-	74S157	IC QUAD 2 TO 1 LINE DATA SEL/MUL		16
376-0228-	74S00	IC QUAD 2-INPUT NAND GATE		7
376-0238-	74S20	IC DUAL 4-INPUT POSITIVE NAND GATE		3
376-0237-	74S11	IC TRIPLE 3-INPUT AND GATE		1
376-0238-	74S10	IC TRIPLE 3-INPUT NAND GATE		3
376-0271-	74S06	IC QUAD 2 IN EXCLUSIVE OR GATE		1
376-0281-	93S10	IC SYNCHRONOUS BCD DECADE COUNTER M/S		1
376-0290-	74S130	IC 3-LINE TO 8-LINE D-CODER/MULTIPLEXER		8
376-0305-	74S374	IC OCTAL 0-TYPE EDGE-TRIG F/F TRI-STATE		30
376-0306-	74S373	IC OCTAL 0-TYPE LATCH TRI-STATE OUTPUTS		1
376-0329-	74S281	IC 8-INPUT MULTIPLEXER		2
376-0330-	74393	IC DUAL 4-BIT BINARY COUNTER		8
376-0333-	74S139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		1
376-0334-	74S240	IC OCTAL BUFFER/LINE DRIVER		1
376-0338-	74S283	IC 4-BIT BINARY FULL ADDER		10
376-0336-	74S181	IC 1-OF-8 DATA SEL/MUX		13
376-0337-	74S244	IC DUAL DATA SELECTOR/MULTIPLEXER TRI-STATE		16
376-0338-	74S244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		7
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 SHEET OF PAGE 1

(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C0568 "A BUS" BOARD (AS1) ASSEMBLY: 210-A

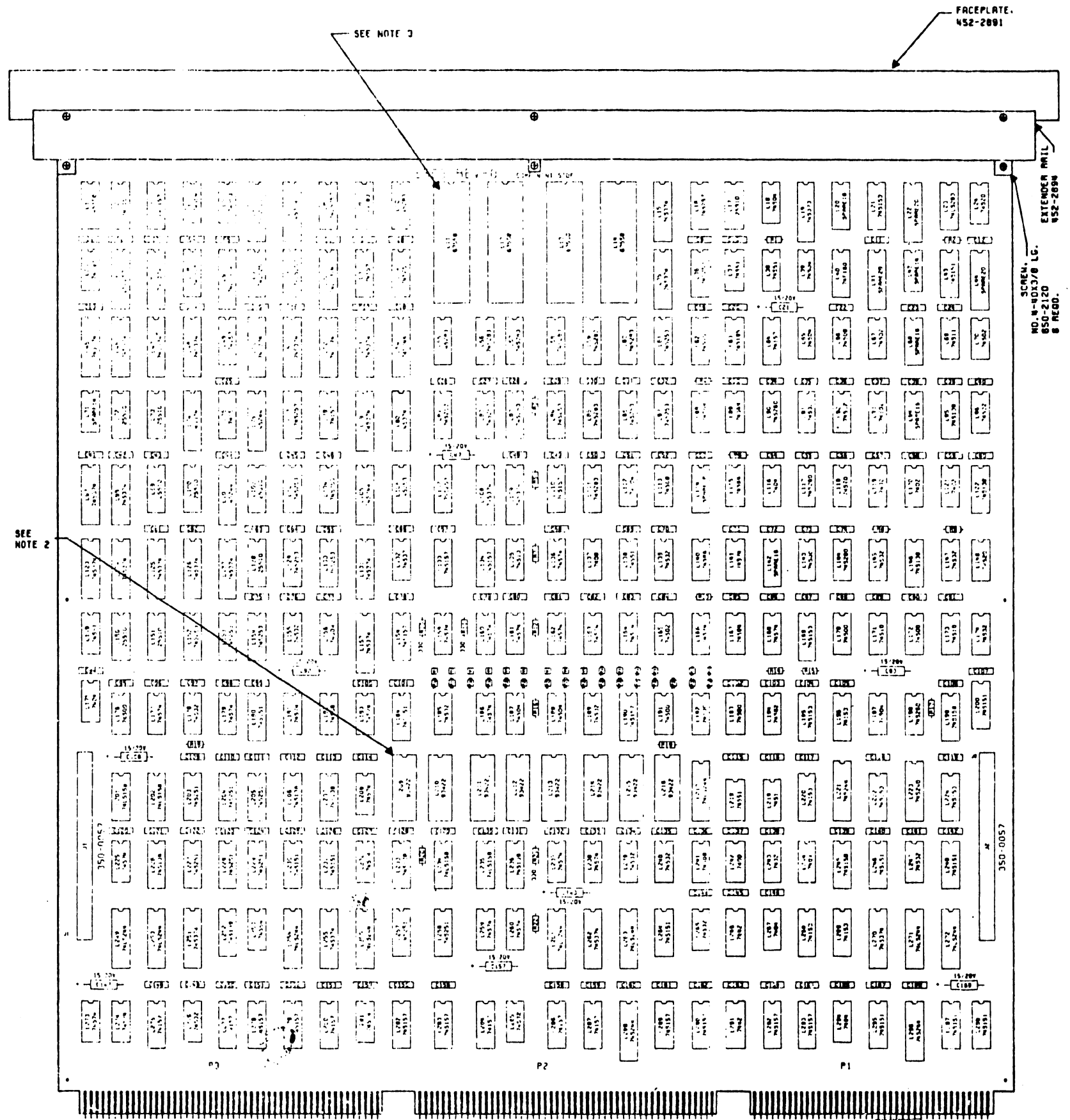
CREATED: 05/02/84 14:21
 LAST MODIFIED: 03/08/84 08:30 BY: LAB
 EDITING REVISION: 1

ANYONE REVISION (R): 00
 ASSEMBLY REVISION (A): 00
 SCHEMATIC REVISION (S): 00
 QRM OR MOST RECENT ECO: E2350

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
Q1	209-0568-		PCA		1
L11 - L14	377-0350-	6755B	IC 8 X 8 MULTIPLIER		4
L200 - L216	377-0361-	93422	IC 256 X 4 BIPOLAR RAM 45NS 22 PIN		8

*** END-OF-REPORT ***

WANG WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWPN		E ENGR	
MODEL NO.		CHK		M ENGR	
SET ENGRS SPECIFICATIONS				MFG ENGR	
TITLE		A BUS BOARD (AS1)			
FINISH		TOL EX AS NOTED XIN ± 010 FRAC ± 1/64 XRD ± 005 ANG ± 1°30' FINISH	SEE CHART	C	8568
SCALE		SHIT 7 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

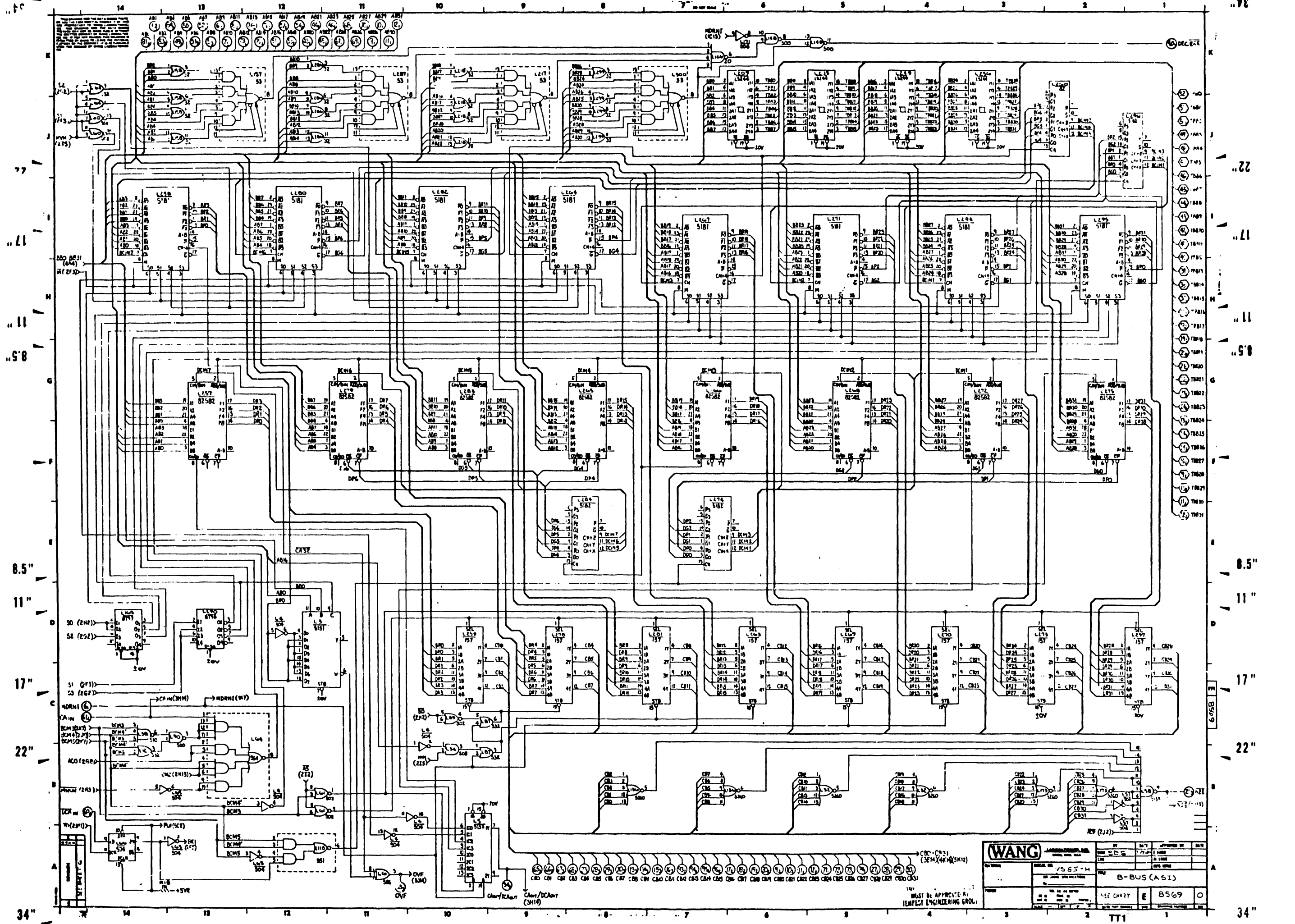


SEE NOTE 2

SEE NOTE 3

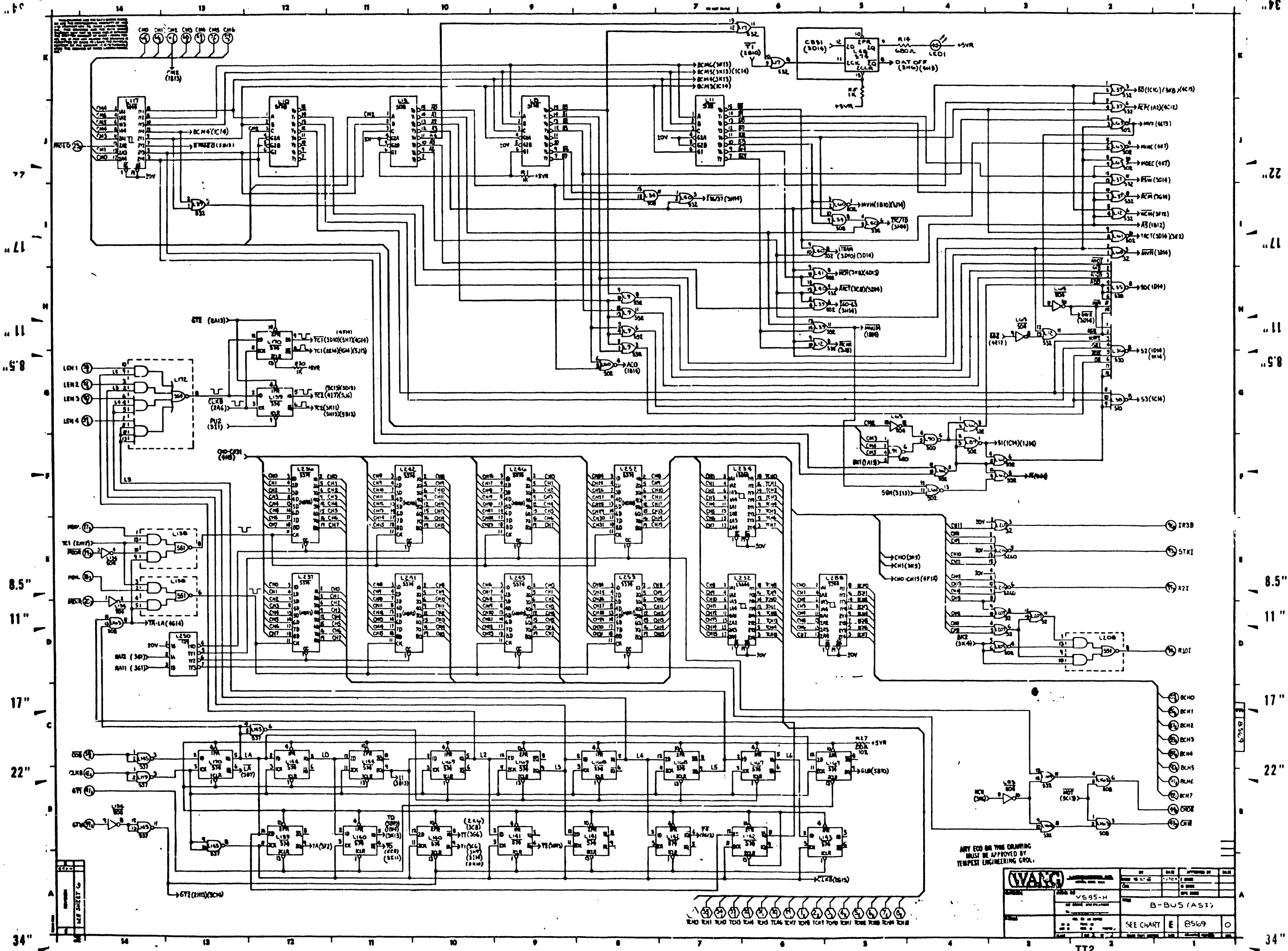
WANG LABS A BUS FINELINE
 ASI 5744 08 40 11/15/84
 ASSEMBLY PLOT
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 REV. 1 PER ECO NO. 33313 10 SEP 84

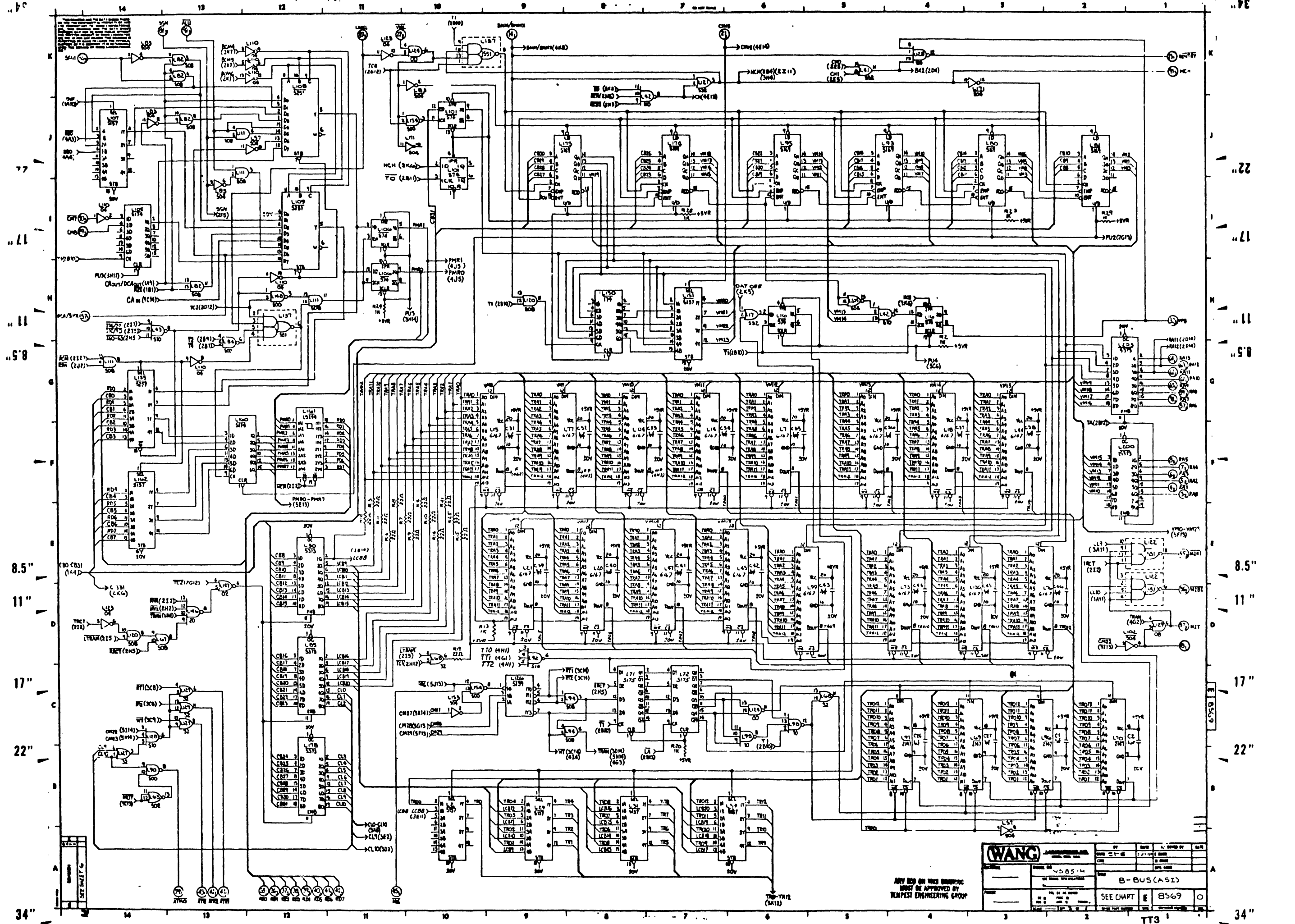
NOTES: 1. UNLESS OTHERWISE SPECIFIED:
 ALL CAPACITORS ARE .047, 300-1986, EXPRESSED IN MICROFARADS.
 ALL RESISTORS ARE 1K, 1/4W, SZ, EXPRESSED IN OHMS.
 ALL TEST POINTS (TP1-TP31) ARE 654-3022.
 2. LOAD 22 PIN SKT(376-9010) IN LOCATIONS L209-L218.
 3. LOAD 40 PIN SKT(376-9011) IN LOCATIONS L11-L14.



WANG		DATE	BY	APPROVED BY
7565-M		DATE	BY	APPROVED BY
B-BUS (AS1)		DATE	BY	APPROVED BY
SEE CHART E 8569		DATE	BY	APPROVED BY

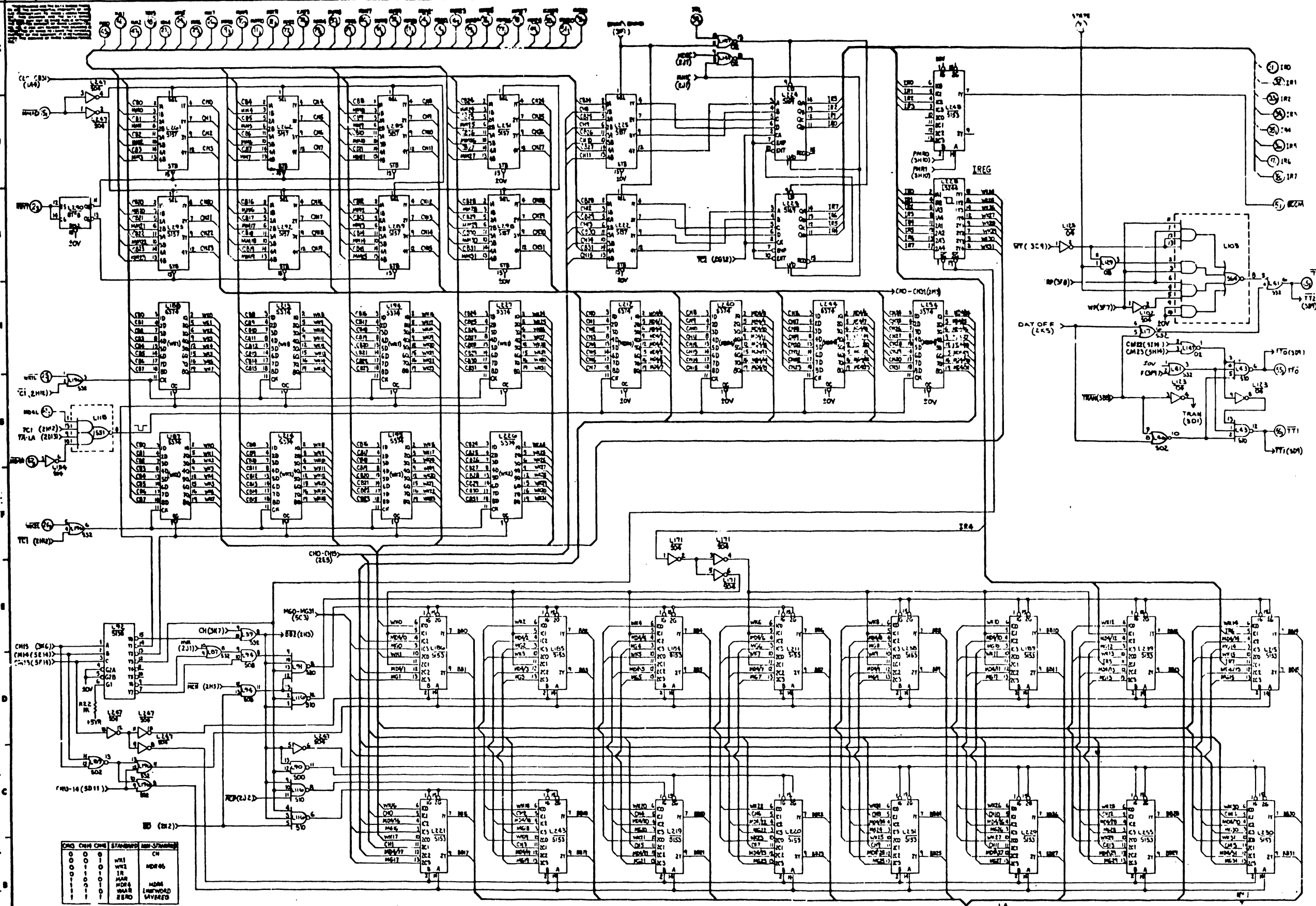
MUST BE APPROVED BY
INTEGRAL ENGINEERING GROUP





WANG		DATE: 11-1-68	BY: [Signature]
PROJECT: 4585-4	REV: 1	APP'D: [Signature]	CHK'D: [Signature]
B-BUS (AS1)		SEE CHART	E 8569
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 MUST BE APPROVED BY
 TEMPEST ENGINEERING GROUP



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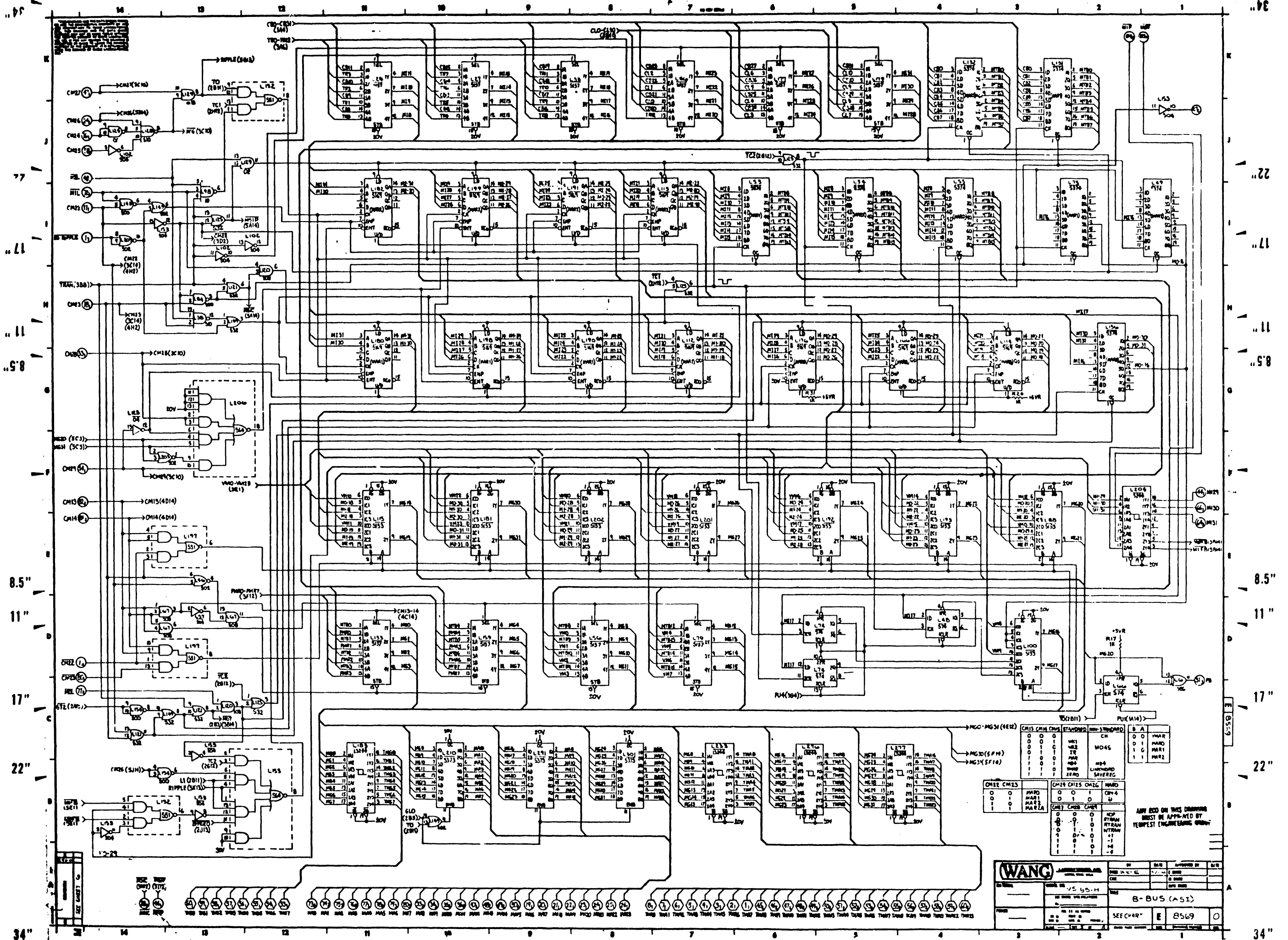
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11	PH

ANY EDC ON THIS DRAWING
 MUST BE APPROVED BY
 THE PROJECT ENGINEERING GROUP

(WANG)		DATE	APPROVED BY	DATE
PROJECT NO.	V585-H	DATE	DATE	DATE
DESCRIPTION	B-BUS (AS1)	DATE	DATE	DATE
SEE CHART	E 8569	DATE	DATE	DATE



CM13 (CM13)	CM14 (CM14)	CM15 (CM15)	CM16 (CM16)	CM17 (CM17)	CM18 (CM18)	CM19 (CM19)	CM20 (CM20)	CM21 (CM21)	CM22 (CM22)	CM23 (CM23)	CM24 (CM24)	CM25 (CM25)	CM26 (CM26)	CM27 (CM27)	CM28 (CM28)	CM29 (CM29)	CM30 (CM30)	CM31 (CM31)	CM32 (CM32)	CM33 (CM33)	CM34 (CM34)	CM35 (CM35)	CM36 (CM36)	CM37 (CM37)	CM38 (CM38)	CM39 (CM39)	CM40 (CM40)	CM41 (CM41)	CM42 (CM42)	CM43 (CM43)	CM44 (CM44)	CM45 (CM45)	CM46 (CM46)	CM47 (CM47)	CM48 (CM48)	CM49 (CM49)	CM50 (CM50)	CM51 (CM51)	CM52 (CM52)	CM53 (CM53)	CM54 (CM54)	CM55 (CM55)	CM56 (CM56)	CM57 (CM57)	CM58 (CM58)	CM59 (CM59)	CM60 (CM60)	CM61 (CM61)	CM62 (CM62)	CM63 (CM63)	CM64 (CM64)	CM65 (CM65)	CM66 (CM66)	CM67 (CM67)	CM68 (CM68)	CM69 (CM69)	CM70 (CM70)	CM71 (CM71)	CM72 (CM72)	CM73 (CM73)	CM74 (CM74)	CM75 (CM75)	CM76 (CM76)	CM77 (CM77)	CM78 (CM78)	CM79 (CM79)	CM80 (CM80)	CM81 (CM81)	CM82 (CM82)	CM83 (CM83)	CM84 (CM84)	CM85 (CM85)	CM86 (CM86)	CM87 (CM87)	CM88 (CM88)	CM89 (CM89)	CM90 (CM90)	CM91 (CM91)	CM92 (CM92)	CM93 (CM93)	CM94 (CM94)	CM95 (CM95)	CM96 (CM96)	CM97 (CM97)	CM98 (CM98)	CM99 (CM99)	CM100 (CM100)
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(WANG)		DATE	BY	APP'D BY	DATE
VS 55-M		REV	REV	REV	REV
B-BUS (ASL)		SEE CHART	E	8569	0

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

ELECTRICAL PARTS LIST (FINAL BILL-OF-MATERIALS)

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C22 - C23	300-1930-	.10	CAP CERAMIC NPOB 50V +0% -20% 50V 25U		10
C31 - C46	300-1966-	.047U	CAP CERAMIC NPOB AXIAL +0% -20% 50V 25U		140
C103 - C140	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	330-2020-	270.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R14	330-2049-	600.000	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	350-0037-	60 CONT	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		2
L124	370-0002-	7400	IC QUAD 2-INPUT NAND GATE		1
L96	370-0003-	7410	IC TRIP 3-INPUT NAND GATE		1
L145	370-0004-	7420	IC DUAL 4-INPUT NAND GATE		1
L110	370-0010-	7404	IC HEX INVERTER		2
L147	370-0016-	7402	IC QUAD 2-INPUT NOR GATE		1

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L163	370-0201-	74564	IC 4-2-3-2 INPUT AND/OR/INVERT GATE		8
L16	370-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGND R/F W/PRESET/C		16
L9	370-0205-	74532	IC QUAD 2-INPUT OR GATE		16
L32	370-0206-	745260	IC DUAL 8-INPUT EXPANDER		4
L1	370-0215-	745103	IC DUAL 4-INPUT MULTIPLEXER		26
L2	370-0217-	745187	IC QUAD 2 TO 1 LINE DATA SEL/MUL		27

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L107	370-0007-	7403	IC EXPANDABLE 4-LEGE AND-OR-INVERT GATE		6
L100	370-0001-	7400	IC QUAD 2-INPUT AND GATE		1
L108	370-0002-	74187	IC QUAD 2-INPUT MULTIPLEXER		8
L109	370-0003-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		7
L104	370-0000-	74174	IC HEX 6 FLIP-FLOP		1
L110	370-0104-	745267	IC QUAD DATA SELECT OR/MULTIPLEXERS		1
L102	370-0105-	8790	IC HEX INVERTER 16 PIN DIP		1
L106	370-0109-	8797	IC HEX BUFFER 16 PIN DIP		1
L4	370-0107-	74504	IC HEX INVERTER		9
L103	370-0100-	74530	IC 8-INPUT NAND GATE		2
L105	370-0109-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L101	370-0200-	74500	IC QUAD 2-INPUT NAND GATE		6
L101	370-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		1
L102	370-0234-	82582	IC 800 ARITHMETIC UNIT		8
L101	370-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		8
L108	370-0247-	745174	IC HEX D-TYPE FLIP-FLOP		2
L100	370-0250-	745181	IC 4-BIT ARITHMETIC LOGIC UNIT		8
L101	370-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		2
L6	370-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		1
L8	370-0276-	745133	IC 13-INPUT NAND GATE		1
L6	370-0284-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		12

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L101	370-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		2
L6	370-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		1
L8	370-0276-	745133	IC 13-INPUT NAND GATE		1
L6	370-0284-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		12

WANG WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL		DWN		E ENGR	
MODEL NO.		CHK		M ENGR	
SEE ENGR SPECIFICATIONS				MFG ENGR	
FINISH		TITLE B-BUS			
TOL EX AS NOTED DIM ± .010 FRAC ± 1/64 HOLE ± .005 ANG ± 1°30' FINISH		SEE CHART	D	8569	0
SCALE 1/8" = 1"		WANG PART NUMBER	1/21	DRAWING NUMBER	REV

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

REF. DES.	WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
L763					
L299					
L298					
L295 - L296					
L299					
L296					
L276 - L277	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		1
L148	376-0293-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		8
L8					
L10 - L11					
L18					
L92					
L99	376-0306-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		28
L83 - L86					
L76					
L121 - L122					
L186					
L187 - L188					
L194 - L196					
L212 - L214					
L226 - L227					
L236 - L237					
L249 - L242					
L244 - L246					
L282 - L284					
L10	376-0304-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		7
L86					
L176					
L203					
L210					
L201					
L201					
L200	376-0310-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		1
L100 - L109	376-0320-	745281	IC 8-INPUT MULTIPLEXER		2
L80 - L81	376-0331-	745169	IC 4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER		19
L93					
L95					
L112 - L114					
L164					
L174 - L176					
L180					
L182					
L190 - L191					
L190 - L199					
L223 - L224					
L126	376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
L280					
L3	376-0336-	745151	IC 1-OF-8 DATA SEL/MUX		1
L117	376-0338-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		3
L104					

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

REF. DES.	WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
L280					
L280	376-0469-	745182	IC LOOK-AHEAD CARRY GENERATOR		4
L274					
L290					
L290					
02 - 021	376-0016-	SKT 18	IC SOCKET 18 PIN DIL PC MOUNT		24
01	510-0429-		PCB		1

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

WANG PART NO.	VALUE/TYPE	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
376-0201-	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 3-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-	02582	IC BCD ARITHMETIC UNIT		8
376-0238-	74510	IC TRIPLE 3-INPUT NAND GATE		8
376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		8
376-0250-	745181	IC 4-BIT ARITHMETIC LOGIC UNIT		2
376-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		8
376-0271-	74544	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
376-0306-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		28
376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		7
376-0320-	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-	745151	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 ECO: 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/TYPE	DESCRIPTION	DRAWING NO.	QTY.
01	209-0520-		PCA		1
L99 - L70	377-0412-	6147	IC MC 4 1 SRAM 70H 18 PIN		4
L96 - L97					
L7	377-0448-	6167	IC 16X1 CMOS SRAM 70HS		16
L14 - L15					
L10 - L21					
L44 - L46					
L47					
L73					
L76 - L77					
L99					
L104					
L130					

*** END-OF-REPORT ***

*** END-OF-REPORT ***

 WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL		CHK		M ENGR	
				MFG ENGR	
MODEL NO		TITLE			
SEE ENGR SPECIFICATIONS		B - BUS			
FINISH		TOL EX AS NOTED	SEE CHART	D	8569
SCALE		WANG PART NUMBER		D/E	DRAWING NUMBER

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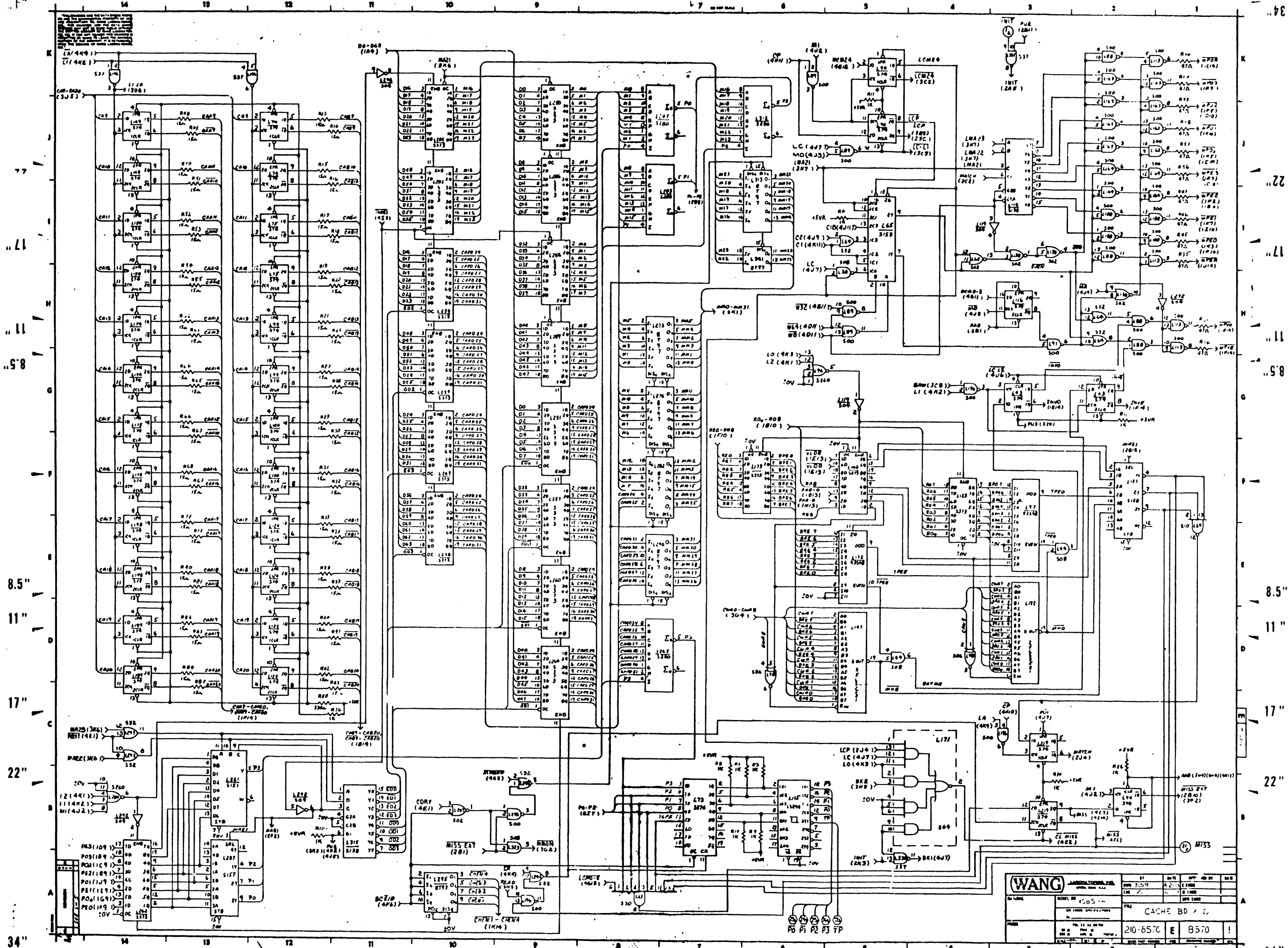
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11" 8.5"

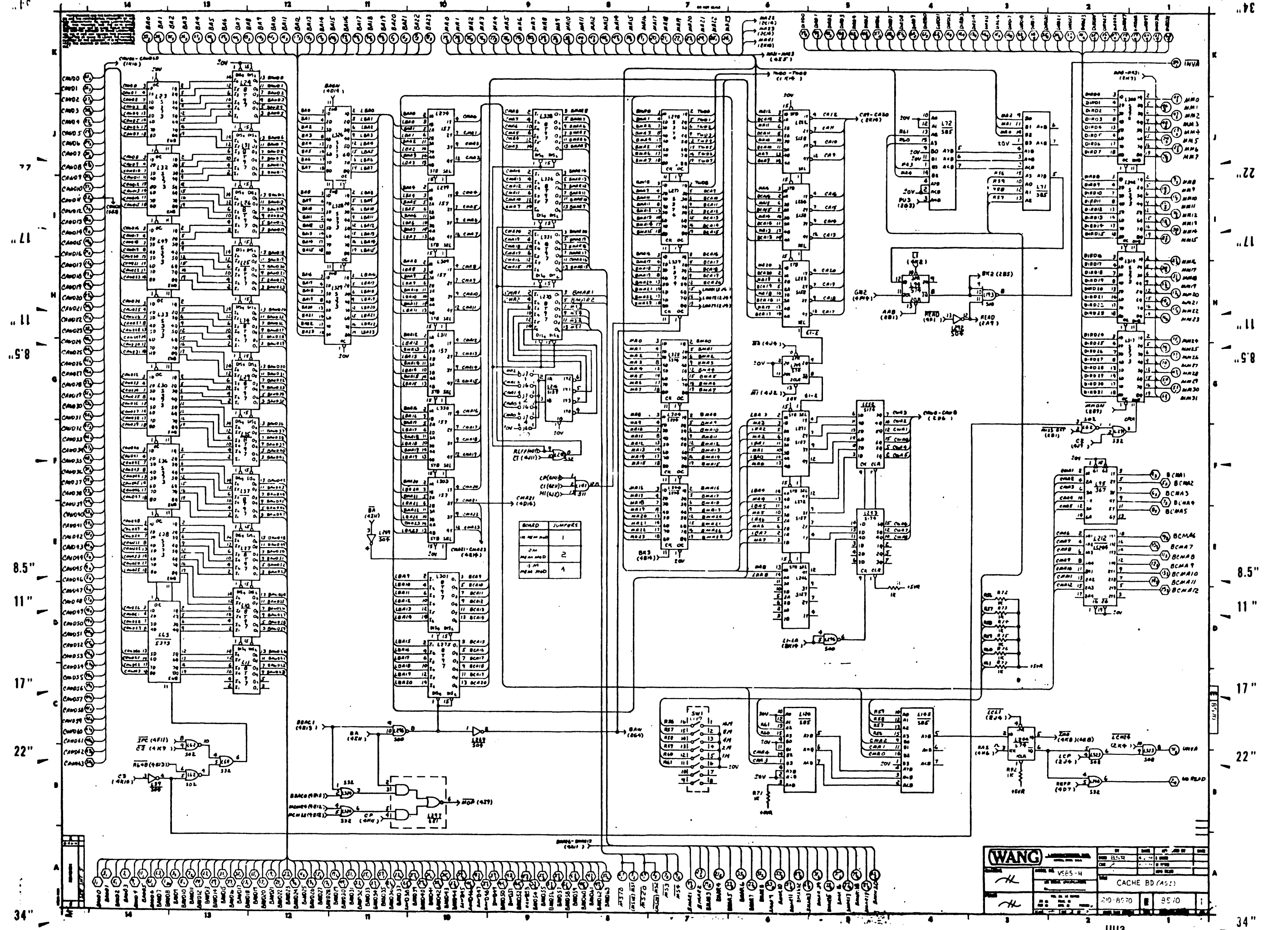
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WANG		DATE	REV	APP	BY	CHK
210-657C		10-5-54	1			
CACHE BD # 1						
210-657C						
E						
B570						



BOARD	JUMPER
2A	1
1A	2
1A	4

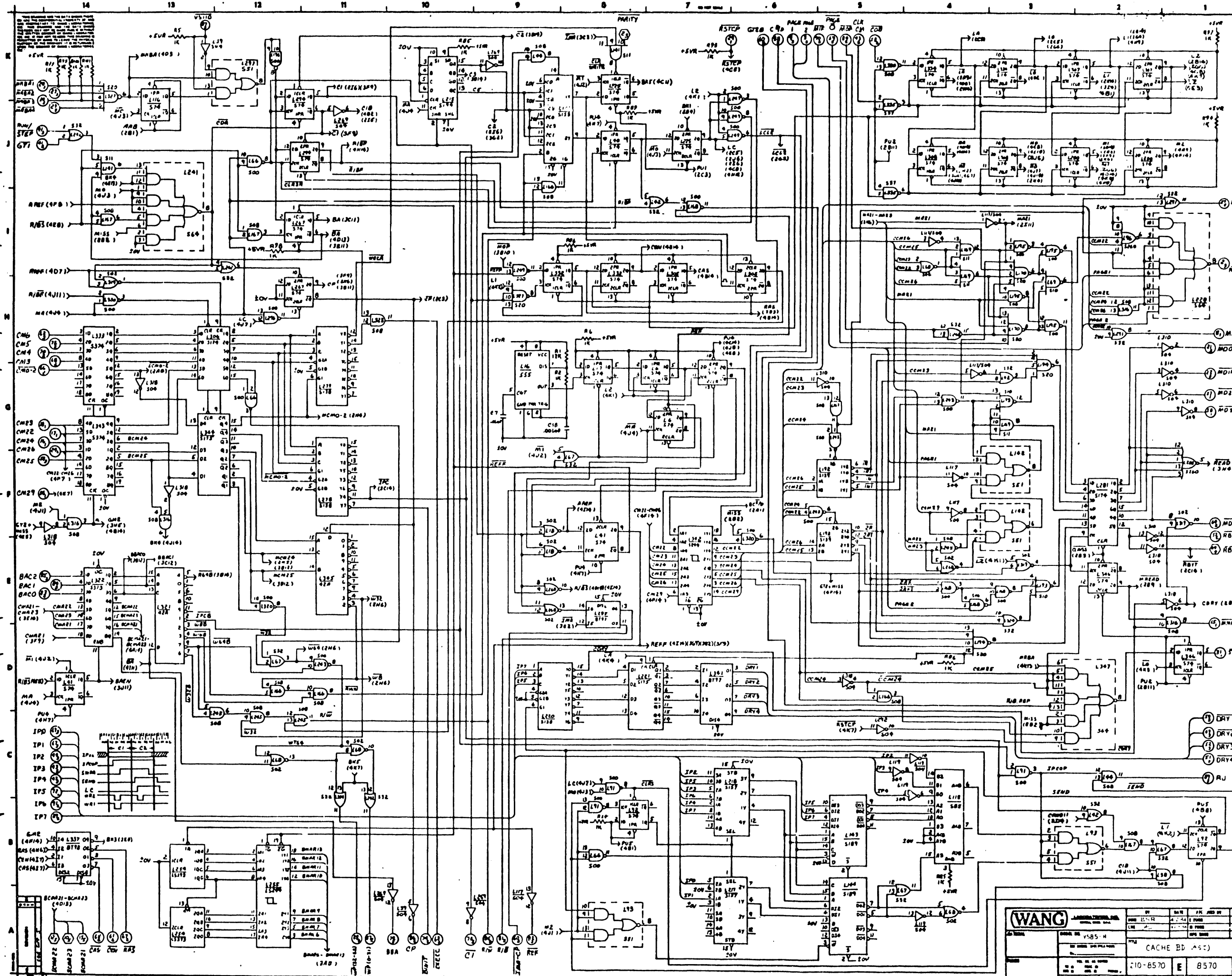
WANG

V565-4

CACHE BD (45.2)

210-8570

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(WANG)		DATE	BY	CHK	REV	BY	CHK
MODEL NO. V585-H		DATE	BY	CHK	REV	BY	CHK
SERIAL NO. 210-8570		DATE	BY	CHK	REV	BY	CHK
PART NO. 8570		DATE	BY	CHK	REV	BY	CHK
DESCRIPTION: CACHE BD (52)		DATE	BY	CHK	REV	BY	CHK
REV. 1		DATE	BY	CHK	REV	BY	CHK

(FINAL PARTS LIST)

BOARD NO. & TITLE: C8570 CACHE (AS1)
 ASSEMBLY LEVEL & TITLE: 209
 PARTS LIST REVISION (P): 1
 AUTHORITY REVISION (R): 00
 ASSEMBLY REVISION (A): 01
 SCHEMATIC REVISION (S): 01
 DWG 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/TYP	DESCRIPTION	DRAWING NO.	QTY.
C7	300-1903-	.01U	CAP CERAMIC DISC +80% -20% 25V 25F		1
C8	300-1906-	.001M	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					
C55 - C57					
C59 - C71					
C73 - C75					
C77 - C79					
C90 - C95					
C99 - C101					
C103 - C108					
C120 - C123					
C1 - C4	300-1966-	.047U	CAP CERAMIC MONO AXIAL +80 -20% 50V Z5U		113
C8 - C12					
C14 - C21					
C23 - C26					
C35 - C40					
C42 - C49					
C50 - C55					
C61 - C69					
C74 - C78					
C106 - C110					
C124 - C130					
C132 - C173					
C13	300-4022-	15U	CAP TANT AXIAL 10% 20V		13
C22					
C30					
C34					
C40					
C54					
C72					
C76					
C80					
C102					
C119					

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET OF PAGE 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C131					
C134					
L107	328-1503-		SLIDE SPST 8 POS		1
R13 - R22	328-1016-		RES FIXED METAL FILM 1/4W 5% 200PPM		40
R27 - R33					
R37 - R43					
R48 - R55					
R62 - R69					
R70 - R80					
R84 - R25	328-1040-	47.000	RES FIXED METAL FILM 1/4W 5% 200PPM		12
R40 - R47					
R56 - R61					
R88	328-2034-	330.000	RES FIXED METAL FILM 1/4W 5% 200PPM		1
R2 - R12	328-3011-	1K	RES FIXED METAL FILM 1/4W 5% 200PPM		40
R23 - R26					
R36					
R70 - R77					
R85 - R86					
R89 - R102					
R1	328-0013-	12K	RES FIXED METAL FILM 1/4W 5% 200PPM		1
J1 - J4	328-0440-	60 CONT	CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		4
P4 - P5	328-4504-	2 CONT	CONN SHUNT .100 CTR		2
L321	376-0008-	7442	IC 1-QV-10 DECODER		2
L345					
L276	376-0002-	74157	IC QUAD 2-INPUT MULTIPLEXER		6
L290					
L303					
L309					
L311					
L330					
L10	376-0126-	555	IC TIMER 8 PIN DIP		1
L95	376-0176-	74367	IC HEX BUFFER TRI-STATE		1
L93	376-0184-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		3
L102					
L297					
L337	376-0185-	0790	IC HEX INVERTER 16 PIN DIP		1
L10 - L11	376-0189-	0797	IC HEX BUFFER 16 PIN DIP		24
L24 - L27					
L29					
L31					
L30 - L35					
L37					
L270					
L273					
L278 - L276					
L282					
L290					
L295					
L301					

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET OF PAGE 3

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L313					
L331					
L336					
L338					
L341					
L39	376-0197-	74504	IC HEX INVERTER		7
L117					
L119					
L269					
L292					
L310					
L316					
L45	376-0190-	74530	IC 8-INPUT NAND GATE		1
L18	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		6
L62					
L60					
L130					
L260					
L319					
L30	376-0200-	74500	IC QUAD 2 INPUT POSITIVE AND GATES		7
L44					
L166 - L167					
L245					
L316					
L323					
L171	376-0201-	74564	IC 4-2-3-2 INPUT AND/OR/INVERT GATE		4
L220					
L201					
L307					
L6	376-0202-	74574	IC DUAL D-TYPE POS EDGE TRIGRD F/F W/PRESET/C		33
L17					
L40 - L41					
L43					
L74 - L75					
L90					
L92					
L94					
L99 - L100					
L110					
L124 - L125					
L140 - L150					
L170 - L175					
L190 - L199					
L210					
L225					
L240					
L267					
L280					
L294					
L305					

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET OF PAGE 4

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L307 - L308					
L332					
L334					
L346					
L42	376-0205-	74532	IC QUAD 2-INPUT OR GATE		8
L64					
L67					
L242					
L240					
L281					
L293					
L324					
L96	376-0206-	745260	IC DUAL 5-INPUT EXPANDER		2
L200					
L65	376-0215-	745153	IC DUAL 4-INPUT MULTIPLEXER		2
L191					
L217 - L218	376-0217-	745157	IC QUAD 2 TO 1 LINE DATA SEL/MUX		6
L244					
L271 - L272					
L287					
L215	376-0221-	745194	IC 4 BIT SHIFT REGISTER		1
L60	376-0220-	74500	IC QUAD 2-INPUT NAND GATE		16
L80 - L89					
L91					
L113					
L163 - L165					
L160					
L188					
L195 - L196					
L243					
L249					
L296					
L320					
L170	376-0230-	74520	IC DUAL 4-INPUT POSITIVE NAND GATE		3
L194					
L337					
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-	745200	IC 9-BIT PARITY GENERATOR/CHECKER		12
L189 - L190					
L213 - L214					
L230 - L240					
L247					
L265					
L283					
L312					
L252 - L253	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		4
L281					

WANG WANG LABORATORIES, INC. LOWELL, MA 01450		BY	DATE	APPROVED BY	DATE
MATERIAL		OWN		E ENGR	
MODEL NO		CHE		M ENGR	
SERIAL SPECIFICATIONS				MFG ENGR	
TITLE		CACHE BD (AS1)			
FINISH		TOL BY AS NOTED	210-8570	C	8570
SCALE		1/8" = 1" (FRAC 1/16")	210-8570	C	8570
DATE		09/13/84	210-8570	C	8570
SHEET		6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER

11
11
8.5
8.5
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11
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.
L300					
L71 - L72	376-0289-	74508	IC 4-BIT MAGNITUDE COMPARATOR		8
L110					
L148					
L221	376-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		2
L344					
L90	376-0271-	74506	IC QUAD 2 IN EXCLUSIVE OR GATE		2
L212	376-0280-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TSE STATE		2
L285					
L146	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		2
L135					
L115	376-0297-	74LS240	IC OCTAL BUFFER/LINE DRIVER/LINE RECEIVER		1
L114	376-0298-	745130	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		8
L220					
L270 - L279					
L318					
L101	376-0301-	745150	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		4
L222 - L324					
L73	376-0305-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		9
L277					
L290					
L304					
L320					
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 7 OF 7 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)					
350-0440-	64 COMT		CONN PC HEADER DUAL ROW .100 R/A W/LOCK/EJECT		4
376-0105-	0790		IC HEX INVERTER 16 PIN DIP		1
376-0109-	0797		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		3
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
376-0290-	745130		IC 1-LINE TO 8-LINE DECODER/MULTIPLEXER		1
376-0301-	745150		IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		5
376-0305-	745374		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/MULTIPLEXER		2
376-0334-	745181		IC 1-OF-8 DATA SEL/MUX		2
376-0338-	745244		IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		1
376-0340-	93540		IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		1
376-0349-	745189		IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		2
376-9402-T	SMT 16		IC SOCKET 16 PIN DIL PC MOUNT LOW PROFILE		1

*** END-OF-REPORT ***

BOARD NO. & TITLE: C8570 CACHE (AS1) SCHEMATIC REVISION (S): 01 SHEET 7 OF 7 PAGE 6

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L300					
L122	376-0307-	74LS393	IC DUAL 4-BIT BINARY COUNTER		1
L147	376-0317-	24LS2821	IC 0-BIT COMPARATOR		2
L192	376-0333-	74S139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
L216					
L261	376-0336-	74S181	IC 1-OF-8 DATA SEL/MUX		1
L342	376-0338-	74S244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		1
L97	376-0340-	93540	IC 12-INPUT ODD/EVEN PARITY CHECKER/GENERATOR		1
L128					
L172					
L143 - L144	376-0349-	74S189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		2
L46	376-9002-T	SMT 16	IC SOCKET 16 PIN DIL PC MOUNT LOW PROFILE		1
L80 - L81	376-9014-	SMT 18	IC SOCKET 18 PIN DIL PC MOUNT		94
L70 - L87					
L101 - L112					
L126 - L127					
L129 - L137					
L181 - L182					
L176 - L187					
L200 - L211					
L226 - L227					
L229 - L237					
92	482-2092-	RAIL	EXTENDER RAIL		1
91	810-0570-	PCB	PCB		1
93 - 95	650-2120-	SCREW	SCREW #4-40 X 3/8 LG.		3
96 - 97	654-0106-	8 COMT	CONN PC HEADER SINGLE ROW .100 (FOR L70)		2
TP1 - TP6	654-3022-	TERMINAL	CONTACT MALE POINT .050 DIA GOLD LOOSE		6

WANG LABORATORIES, INC. RUN DATE: 09/13/84 16:24
ELECTRICAL PARTS LIST SHEET 07 PAGE 1

(FINAL PARTS LIST)

BOARD NO. & TITLE: C8570 CACHE (AS1) ASSEMBLY LEVEL & TITLE: 210-A
PARTS LIST REVISION (P): 1
ARTWORK REVISION (R): 00
ASSEMBLY REVISION (A): 01
SCHEMATIC REVISION (S): 01
DHW OR MOST RECENT ECO: 329300

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	209-8570-		PCA		1
L76 - L78	377-0412-	6147	IC 4K X 1 SRAM 70H 18 PIN		22
L101 - L103					
L126 - L127					
L181 - L183					
L176 - L178					
L200 - L202					
L226 - L227					
L53 - L61	377-0413-	6147-3	IC 4K X 1 SRAM 55NS 18 PIN		22
L79 - L87					
L104 - L112					
L129 - L137					
L184 - L182					
L179 - L187					
L203 - L211					
L229 - L237					

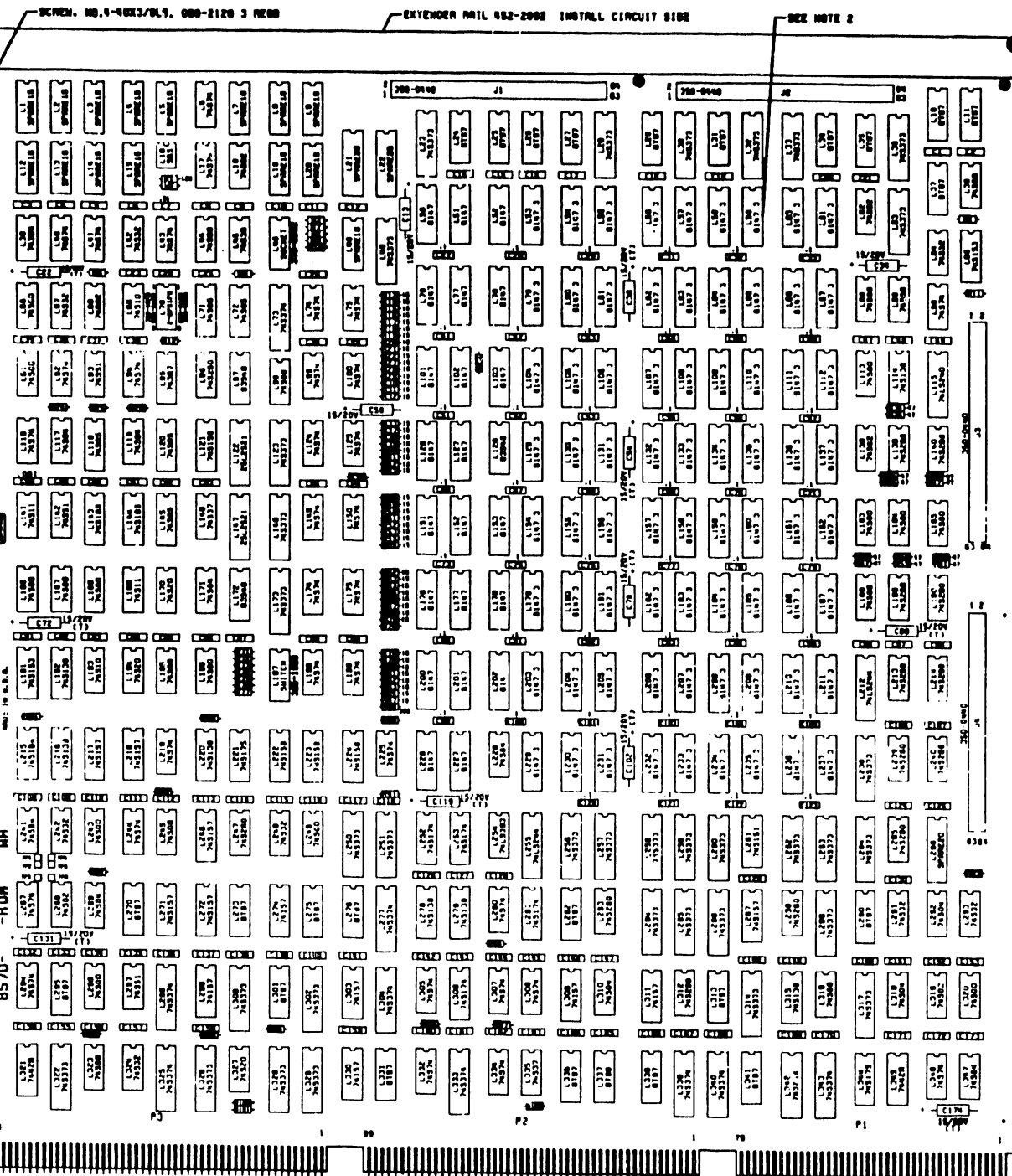
*** END-OF-REPORT ***

WANG	WANG LABORATORIES, INC. LOWELL, MA U.S.A.	BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL	MODEL NO	CHK		M ENGR	
	SEE ENGNG SPECIFICATIONS			MFG ENGR	
FINISH	TOL EX AS NOTED	TITLE CACHE 8D (AS1)			
	30 ± 0.10 FRAC ± 1/64 HOLE ± .005 ANG ± 1° BY FOURTH V	210-8570	C	8570	1
SCALE	1/8" = 1"	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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11
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THIS DRAWING AND THE DATA SHOWN THEREON ARE THE CONFIDENTIAL PROPERTY OF WANG AND 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.

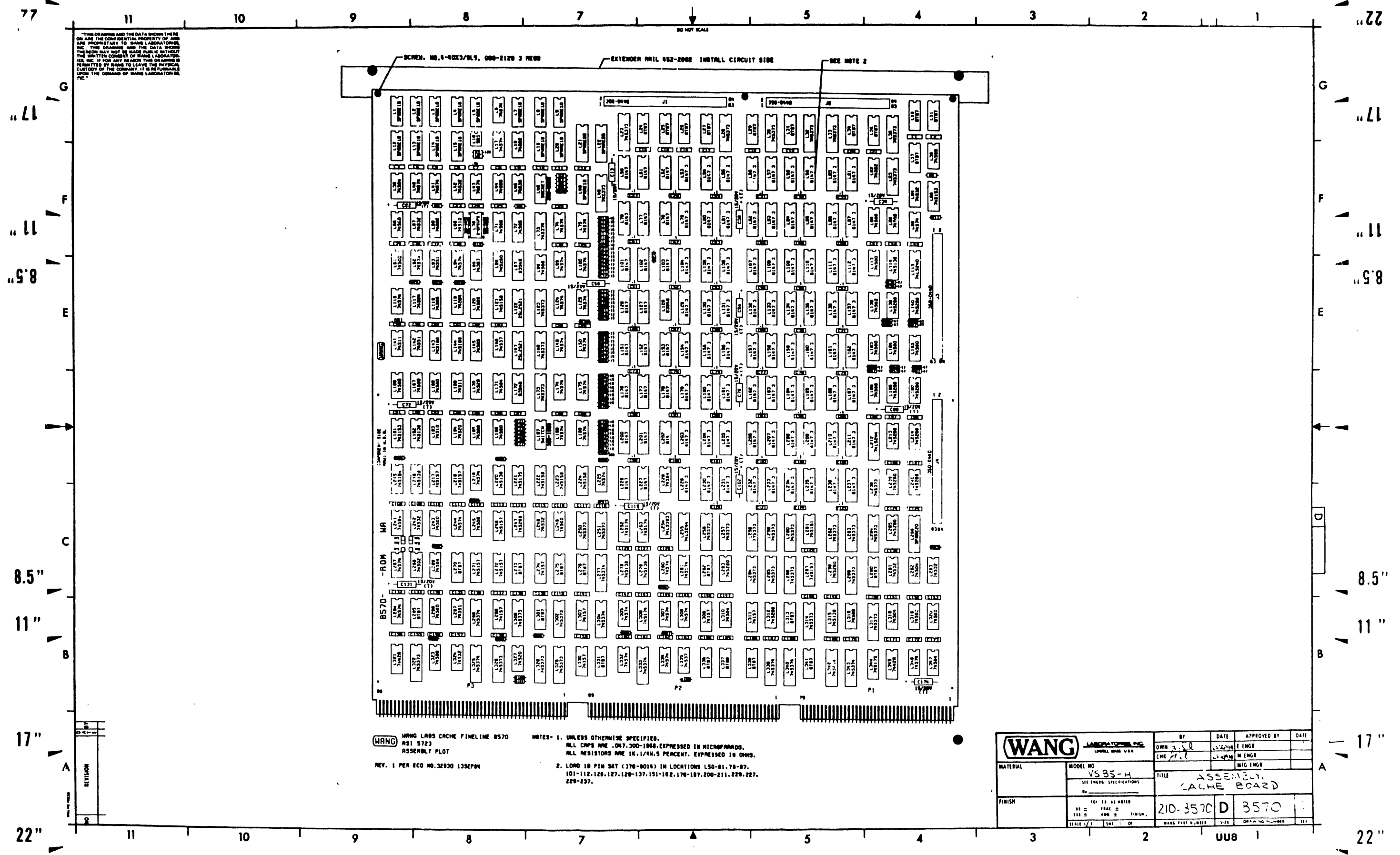


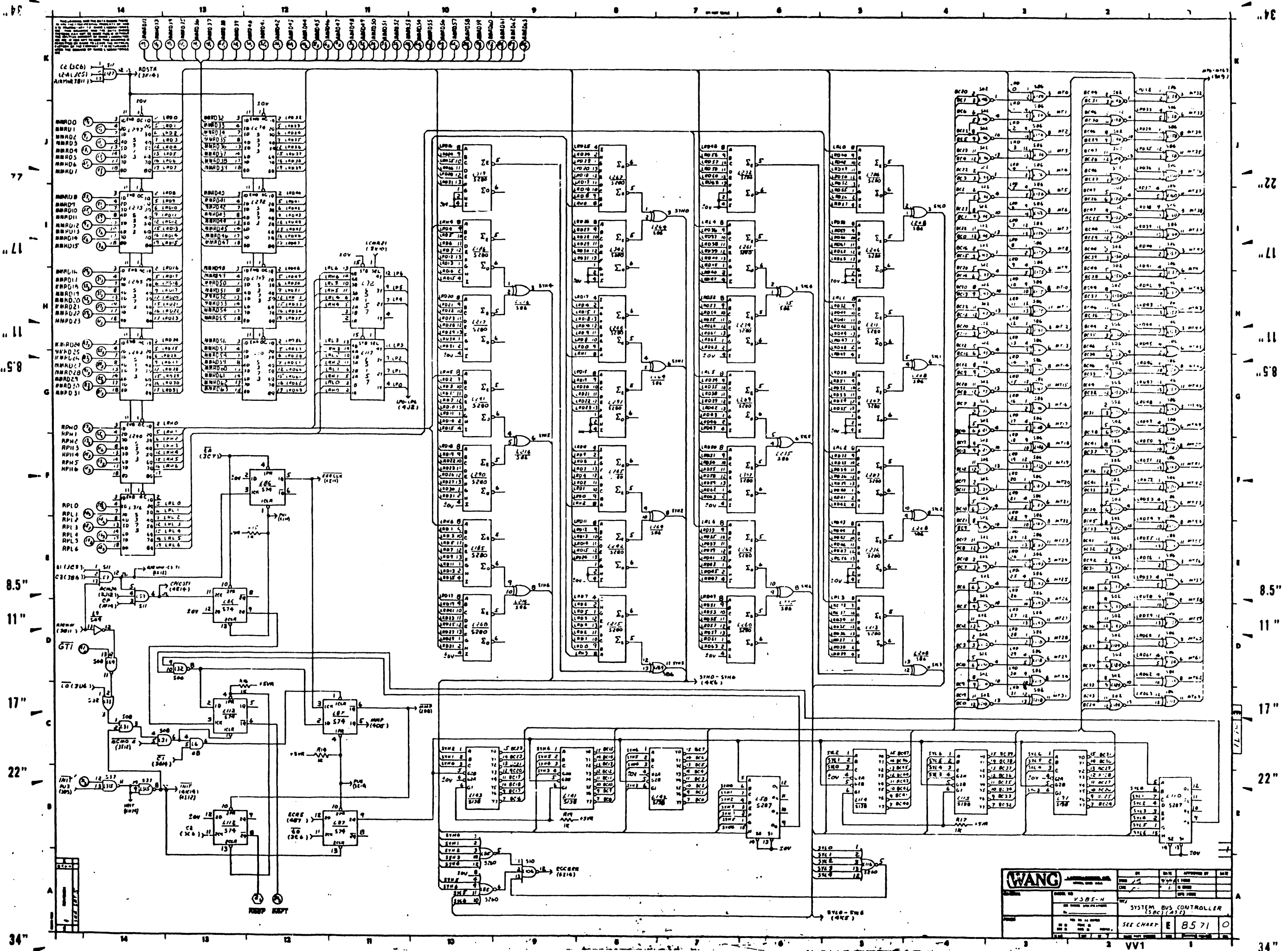
WANG WANG LABS CACHE FINELINE 8570
 NSI 5723
 ASSEMBLY PLOT
 REV. 1 PER ECO NO. 32930 1332PM

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 IS PIN SHY (378-9014) IN LOCATIONS L50-81, 78-87, 101-112, 128, 127, 128-137, 151-182, 178-187, 200-211, 228, 227, 229-237.

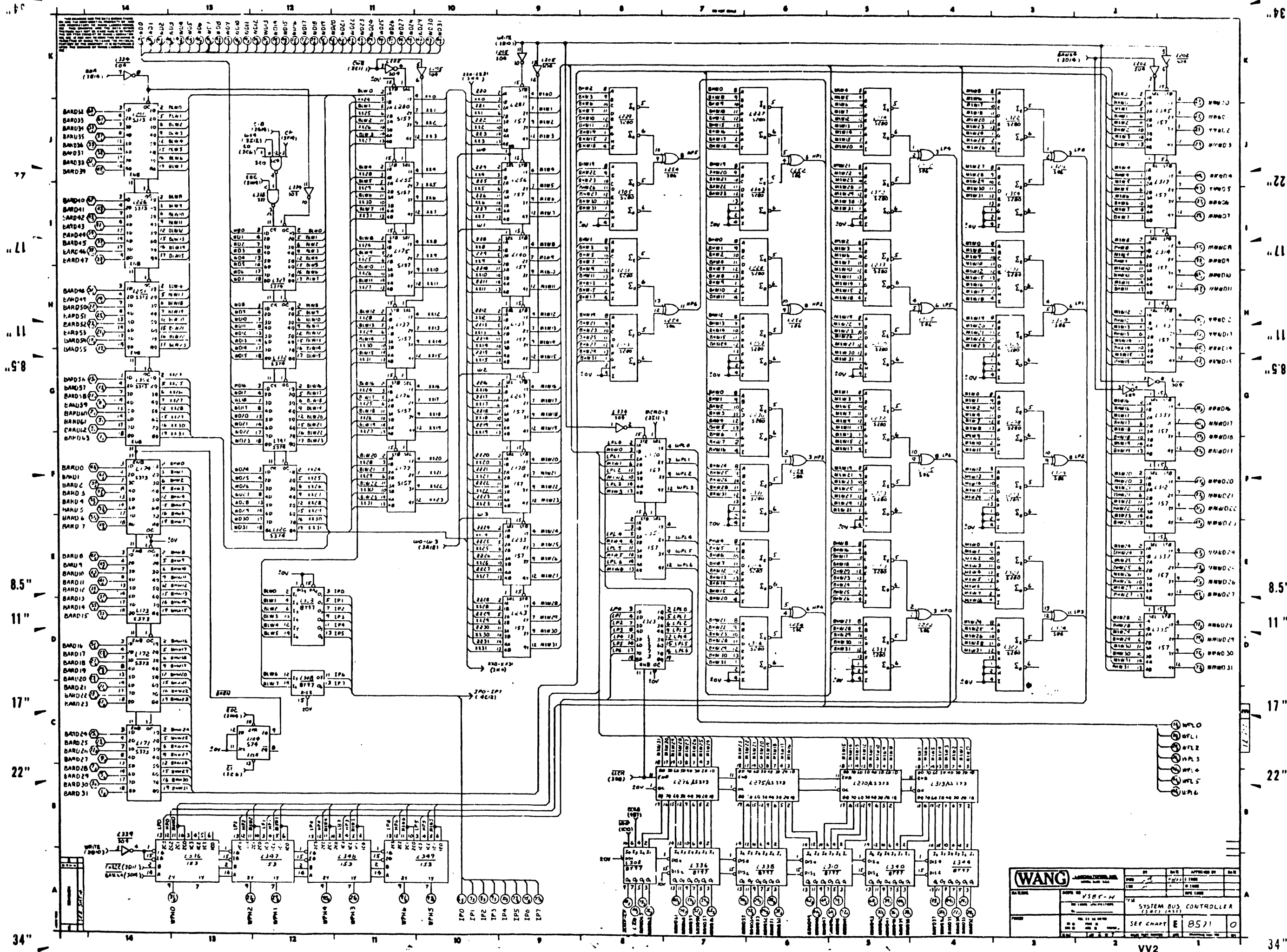
WANG LABORATORIES, INC. LYNN, MASS. U.S.A.		BY DWH CNE	DATE 12/20/68 12/20/68	APPROVED BY E ENGR M ENGR	DATE
MATERIAL	MODEL NO. VS85-H SEE ENGR SPECIFICATIONS	TITLE ASSEMBLY CACHE BOARD			
FINISH	101 IS AS NOTED 112 IS FRAC ± 113 IS ANG ± FINISH.	210-3570	D	B570	
SCALE 1/16" = 1"		DATE	SIZE	DRAWING NUMBER	REV.

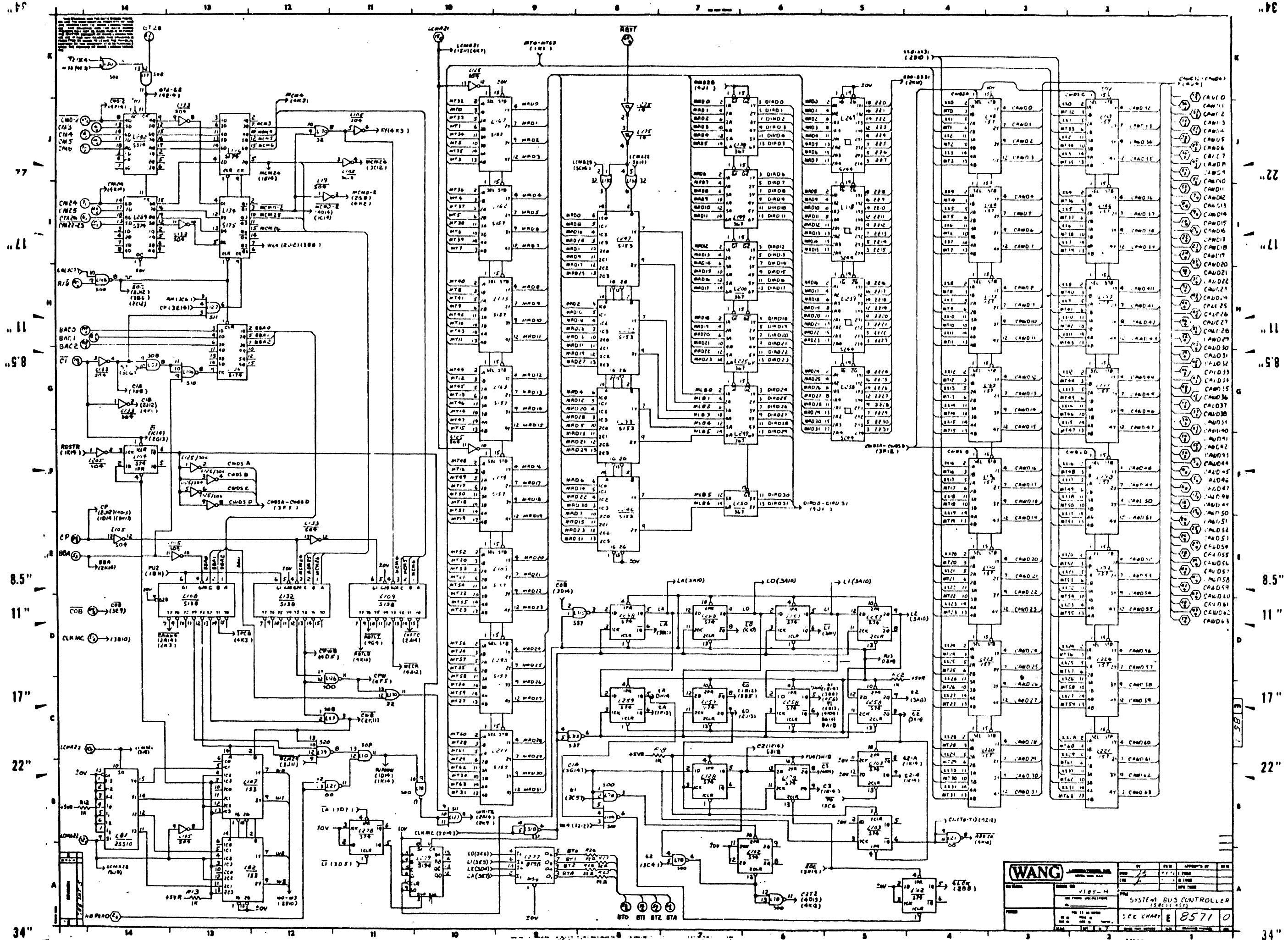
REV	DATE	DESCRIPTION
1		



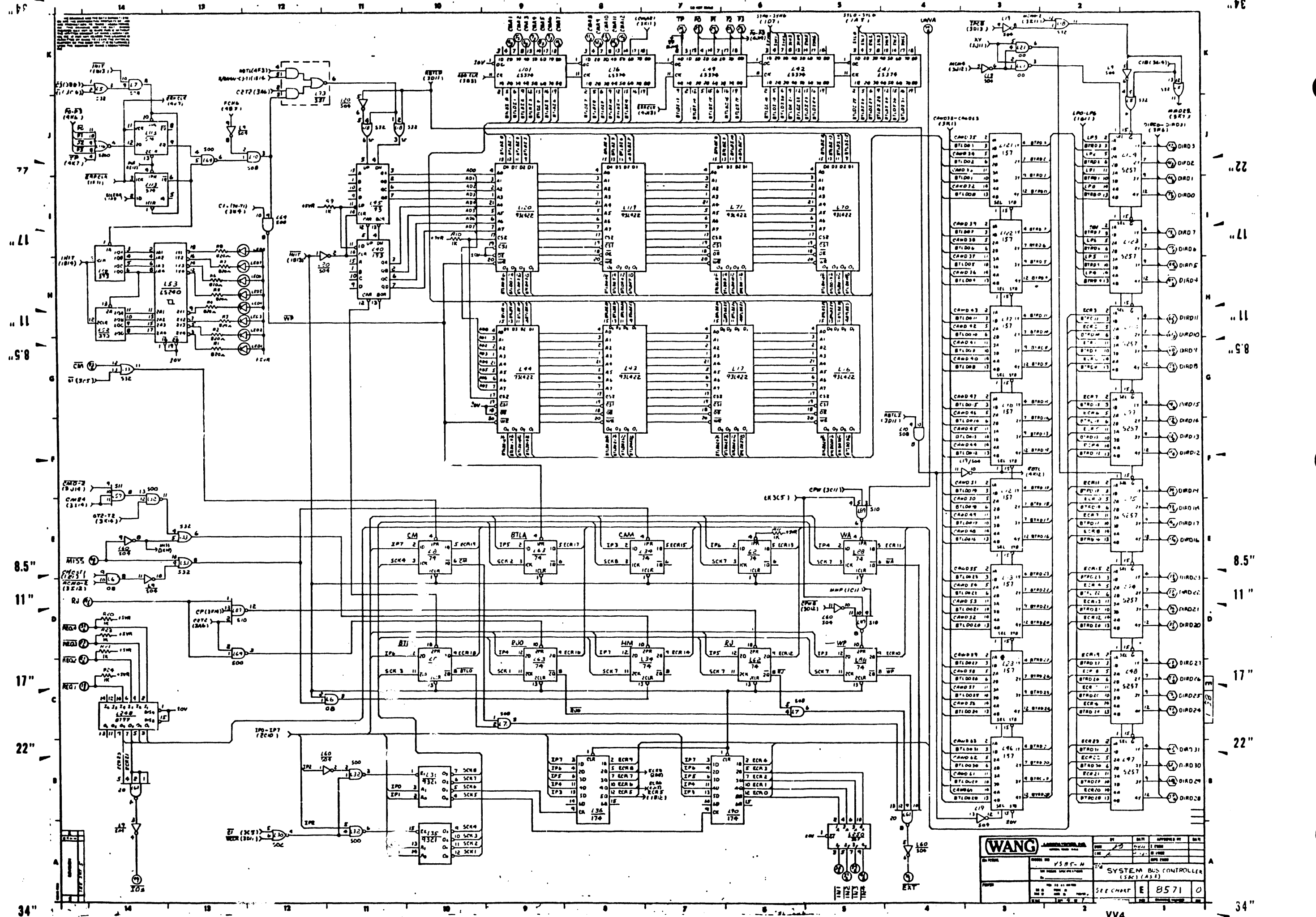


WANG		DATE	APPROVED BY	REV
SYSTEM BUS CONTROLLER				
SEE CHART E 8571 0				
V.3.5.5-H				
VV1				





WANG		DATE	BY	APPROVED BY	REV
V38T-M		NO. 73	W. J. H.		1
SYSTEM BUS CONTROLLER		SEE CHART		8571 0	
V38T-M		SYSTEM BUS CONTROLLER		8571 0	
V38T-M		SYSTEM BUS CONTROLLER		8571 0	



WANG		DATE	APPROVED BY
MODEL NO	V5501-N	DATE	DATE
REV	1	DATE	DATE
SYSTEM BUS CONTROLLER (SBC) (AS2)		DATE	DATE
SEE CHART	E 8571	DATE	DATE

VV4

(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					
C118					
C130					
C203					
C233					
R26 - R28	330-1023-	22.000	RES FIXED METAL FILM 1/4W 5% 200PPM		4
R1 - R8	330-2003-	820.000	RES FIXED METAL FILM 1/4W 5% 200PPM		8
R9 - R24	330-3011-	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		0
C81 - C88	370-0075-	LED	LED RED DIFFUSED RED 3MCD TYP		0
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		0
L34					
L62 - L63					
L80					
L82	376-0048-	74153	IC DUAL 4-INPUT MULTIPLEXER		6
L107					
L346 - L349					
L40	376-0051-	74193	IC UP/DOWN BINARY COUNTER		2
L48					
L6	376-0081-	7400	IC QUAD 2-INPUT AND GATE		1
L33	376-0082-	74157	IC QUAD 2-INPUT MULTIPLEXER		02
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					
L236					
L263					
L207					
L312					
L316					
L317					
L338					
L337					
L339					
L343					
L345					
L350 - L351					
L130	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		1
L20	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		0
L74 - L75					
L99 - L100					
L128 - L129					
L170	376-0139-	7414	IC HEX SCHMIDT TRIGGER INVERTER		1
L195 - L200	376-0176-	74367	IC HEX BUFFER TRI-STATE		6
L228					
L249 - L250					
L93	376-0184-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES		1
L277	376-0185-	8798	IC HEX INVERTER 16 PIN DIP		1
L240	376-0189-	8797	IC HEX BUFFER 16 PIN DIP		0
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
L104 - L105					
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
L102 - L104					
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	376-0218-	745183	IC DUAL 4-INPUT MULTIPLEXER		0
L244					
L246 - L247					
L117	376-0216-	74LS187	IC QUAD 2-INPUT MULTIPLEXER		2
L137	376-0217-	74LS187	IC QUAD 2 TO 1 LINE DATA SEL/MUX		14
L162 - L163					
L167					
L175 - L177					
L180					
L193 - L194					
L210					
L248					
L255					
L280					
L279	376-0221-	74S194	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					
L108 - L109	376-0246-	74S200	IC 9-BIT PARITY GENERATOR/CHECKER		06
L203 - L204					
L206 - L207					

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

L211					
L213					
L218					
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-	74S174	IC HEX D-TYPE FLIP-FLOP		2
L138					
L134	376-0270-	74S175	IC QUAD D-TYPE FLIP-FLOP		1
L184 - L161	376-0271-	74S86	IC QUAD 2 IN EXCLUSIVE OR GATE		24
L183					
L187 - L188					
L200					
L212					
L214					
L216					
L218					
L235					
L237					
L243					
L252					
L254					
L264					
L324 - L328					
L41 - L42	376-0284-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE		8
L49					
L76					
L101					
L318	376-0296-	74S17	IC QUAD 2-INPUT NAND BUFFER		2
L318					
L83	376-0297-	74LS240	IC OCTAL BUFFER/LINE DRIVER/LINE RECEIVER		1
L93	376-0298-	74S138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		9
L108 - L109					

 WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		DWPN		E ENGR	
MATERIAL MODEL NO. SEE ENGR SPECIFICATIONS No. _____		CHK		M ENGR	
				MFG ENGR	
FINISH TOL IN AS NOTED .XXX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH ✓		TITLE SYSTEM BUS CONTROLLER (SBC) (AS1)			
		SEE CHART	D	8571	0
SCALE	SHT 6 OF 7	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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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/TYPE	DESCRIPTION	DRAWING NO.	QTY.
L110 - L118					
L101 - L143	376-0306-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI STATE		6
L201 - L174	376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		10
L201 - L296	376-0310-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS		8
L201	376-0330-	74393	IC DUAL 4-BIT BINARY COUNTER		1
L201	376-0330-	745244	IC OCTAL BUFFER/LINE DRIVER/RECEIVER TRI-STATE		4
L201	376-0330-	25510	IC 4-BIT SHIFTER TRI-STATE O.OUTPUTS		1
L201	376-9802-	SKT 16	IC SOCKET 16 PIN DIL PC MOUNT		1
L201	376-9810-	SKT 22	IC SOCKET 22 PIN DIL PC MOUNT		1
L201	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) ASSEMBLY: 210-A
 SCHEMATIC REVISION (S): 00
 ASSEMBLY REVISION (A): 00
 DWR OR MOST RECENT ECO: 82351

CREATED: 06/10/84 08:25
 LAST MODIFIED: 06/19/84 12:18 BY: LAB
 EDITING REVISION: 2

REF. DES.	WANG PART NO.	VALUE/TYPE	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
L18 - L21					
L119 - L120	377-3063-	025120	64-OTA PTR/CHR VFU /PROG. 74LS207		1

*** END-OF-REPORT ***

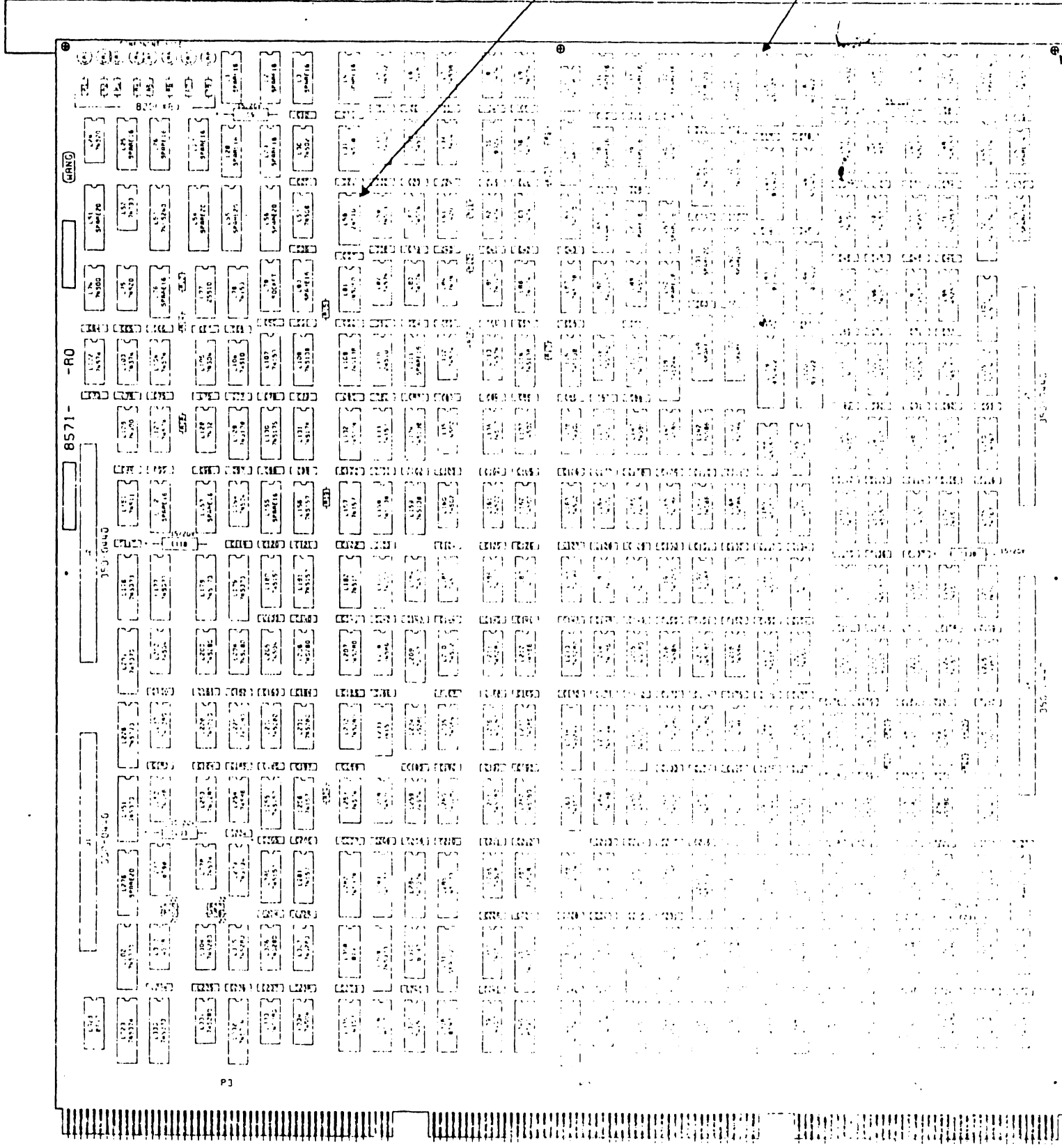
WANG	WANG LABORATORIES, INC. LOWELL, MA U.S.A.	BY	DATE	APPROVED BY	DATE
		DWN		E ENGR	
MATERIAL	MODEL NO.	CHK		M ENGR	
	SEE ENGR SPECIFICATIONS			MFG ENGR	
FINISH	TITLE	SYSTEM BUS CONTROLLER (SBC) (AS1)			
	TOL EX AS NOTED HOLE ± 0.10 FRAC ± 1/64 HOLE ± 0.05 ANG ± 1° FINISH ✓	SEE CHART	D	8571	0
SCALE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

FACEPLATE, 452-2893
INSTALL CIRCUIT SIDE

SEE NOTE 2

SEE NOTE 3

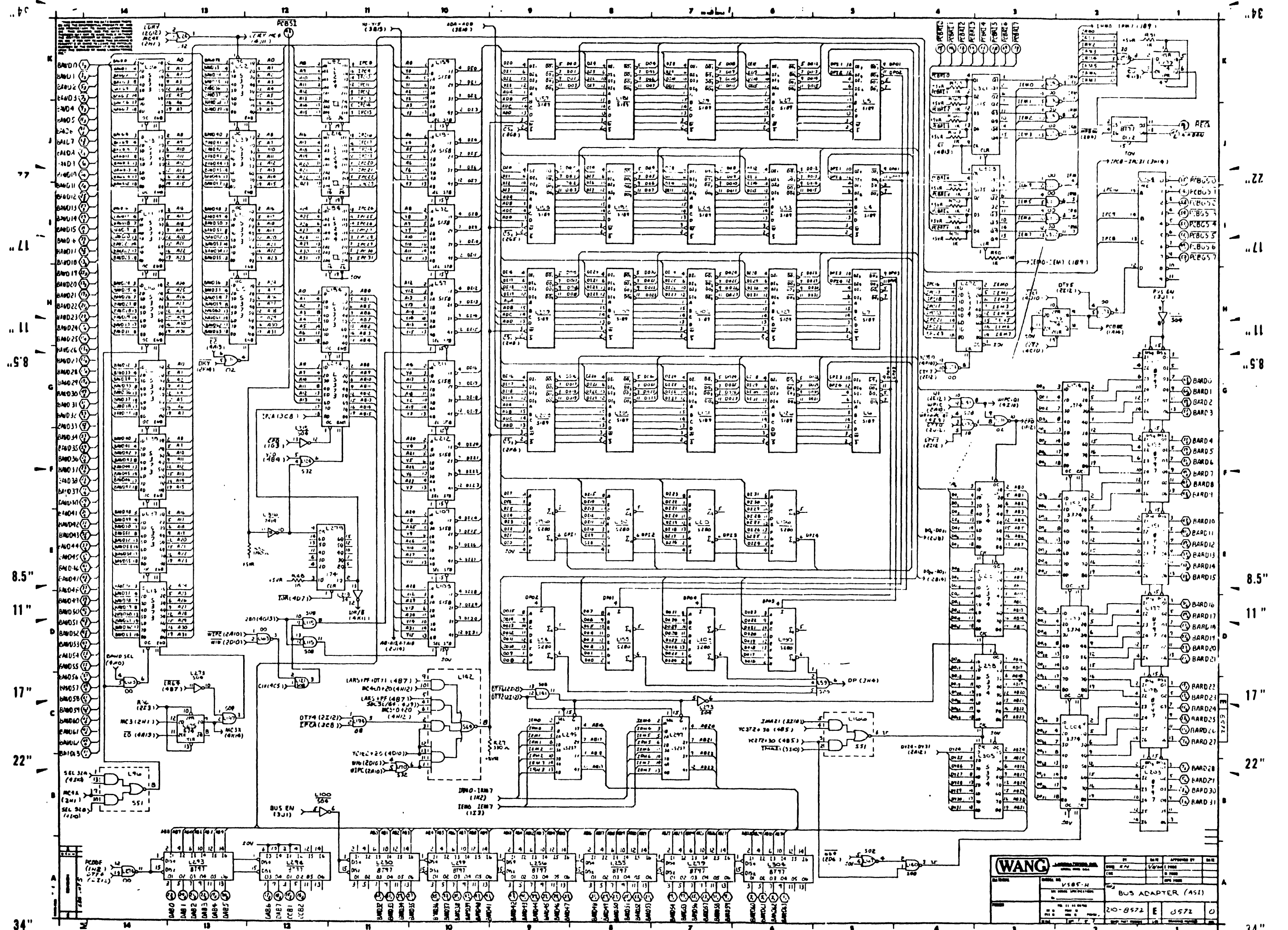
SCREW,
NO. 4-40X3/8 LG.
650-2120
3 M40.



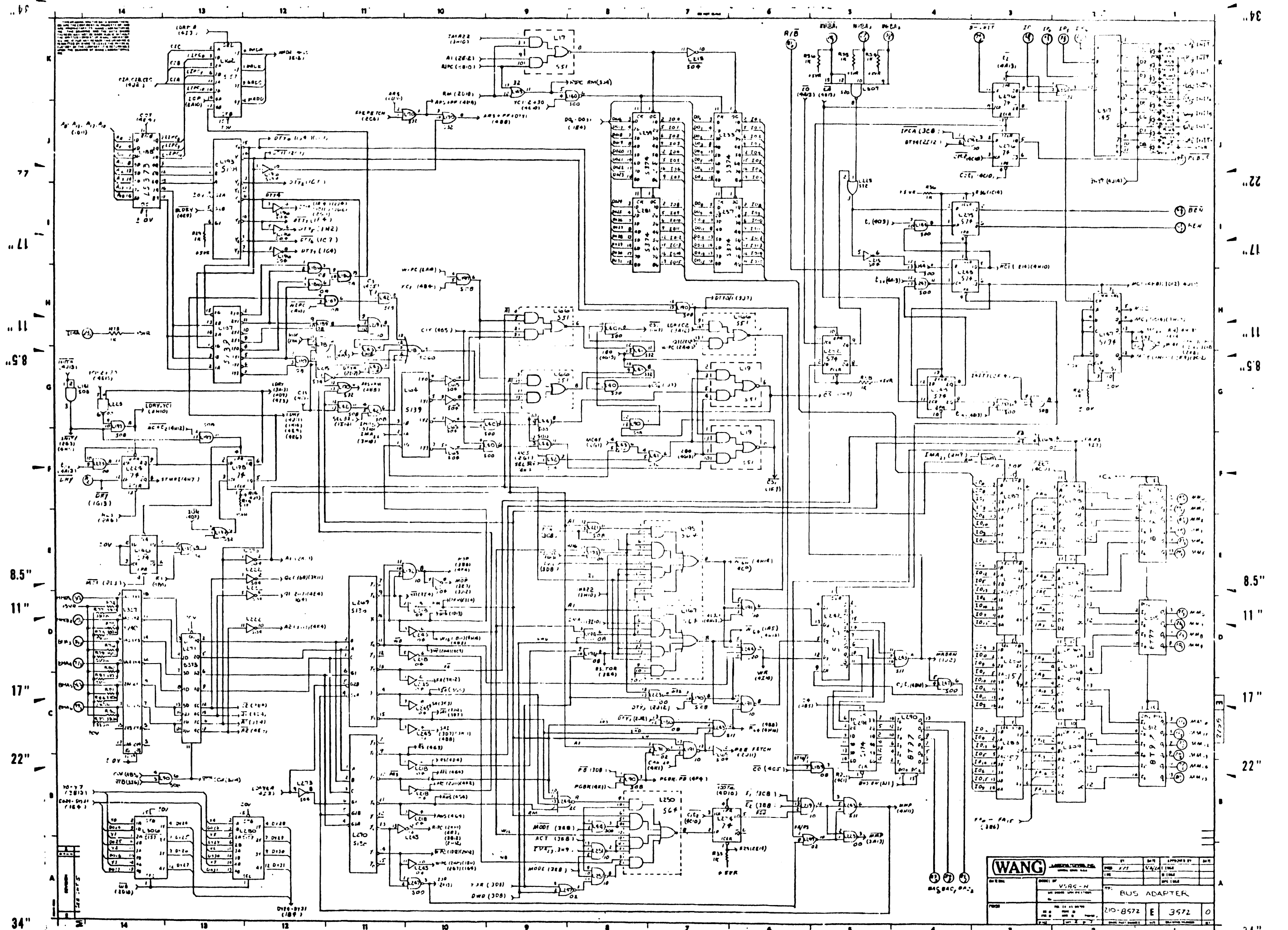
WANG LABS 8571 SYSTEM BUS CONTROL
AS1 5/24 09 10 11/15/84
ASSEMBLY PLOT

REV. 1 PER ECO NO. 32949 7 SEP 84

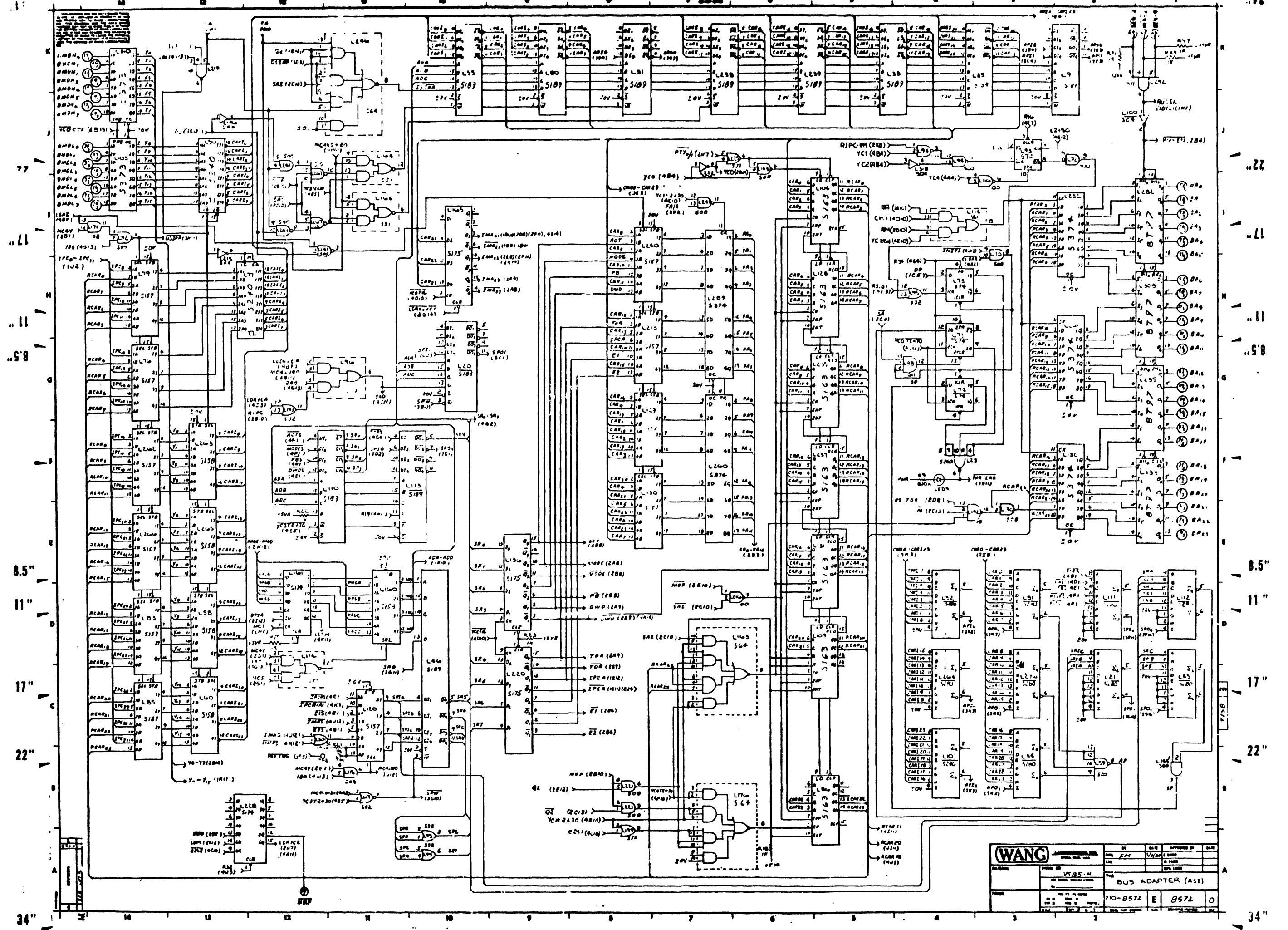
- NOTES: 1. UNLESS OTHERWISE SPECIFIED:
 ALL CAPACITORS ARE 50V 50% TOLERANCE, UNLESS NOTED OTHERWISE.
 ALL RESISTORS ARE 1/4W, 5% EXCEPT AS NOTED.
 ALL LEADERSHIP-CR67 100% QTY ON 4
2. LOAD 16 PIN SMD306-011 IN LOC. 115, 116, 117, 118, 119, 120.
3. LOAD 22 PIN SMD375-011 IN LOC. 115, 116, 117, 118, 119, 120.



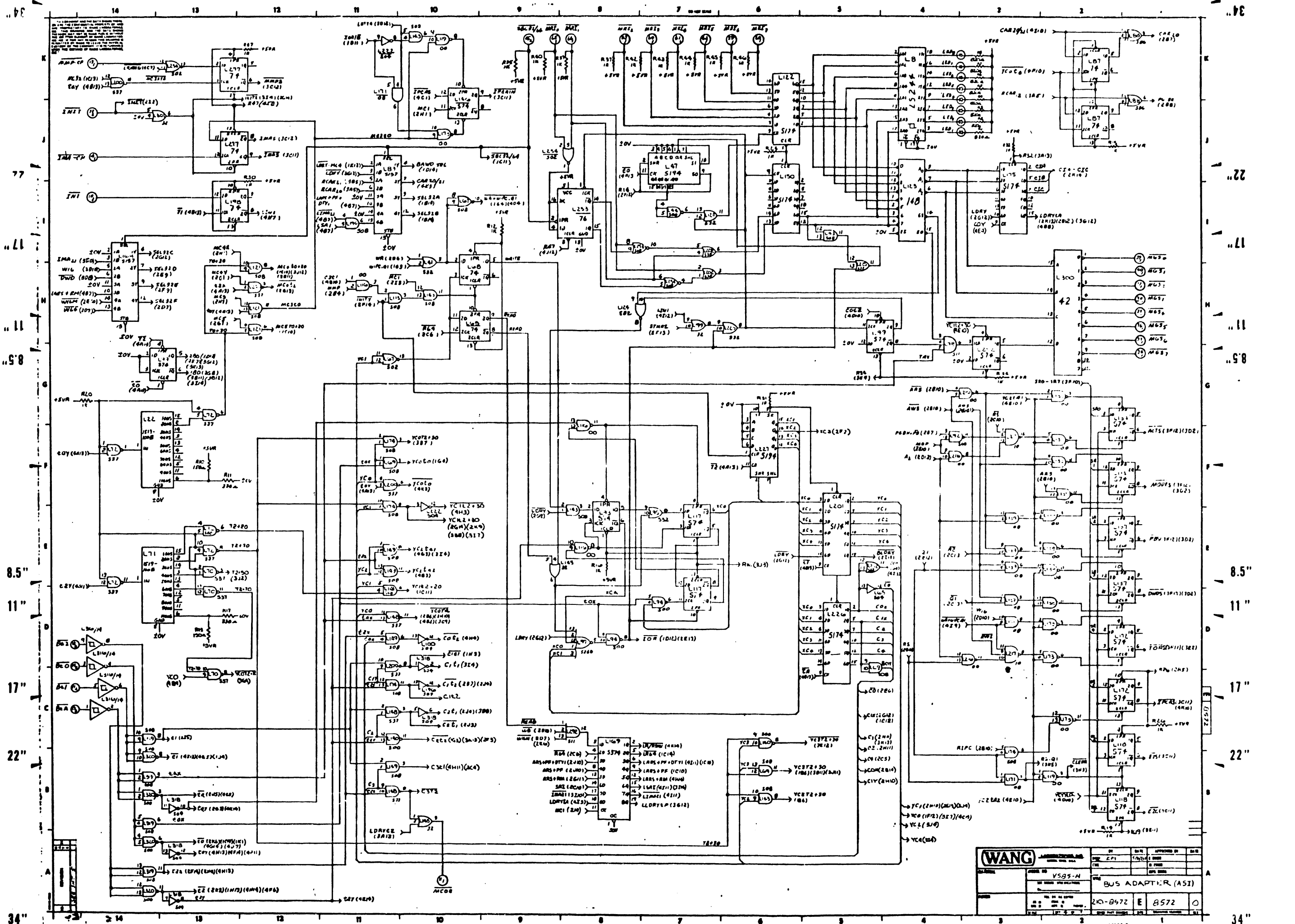
WANG		DATE	REV	APPROVED BY	CHK
BUS ADAPTER (AS1)		20-8572	E	0572	0
20-8572		E	0572	0	
WW1					



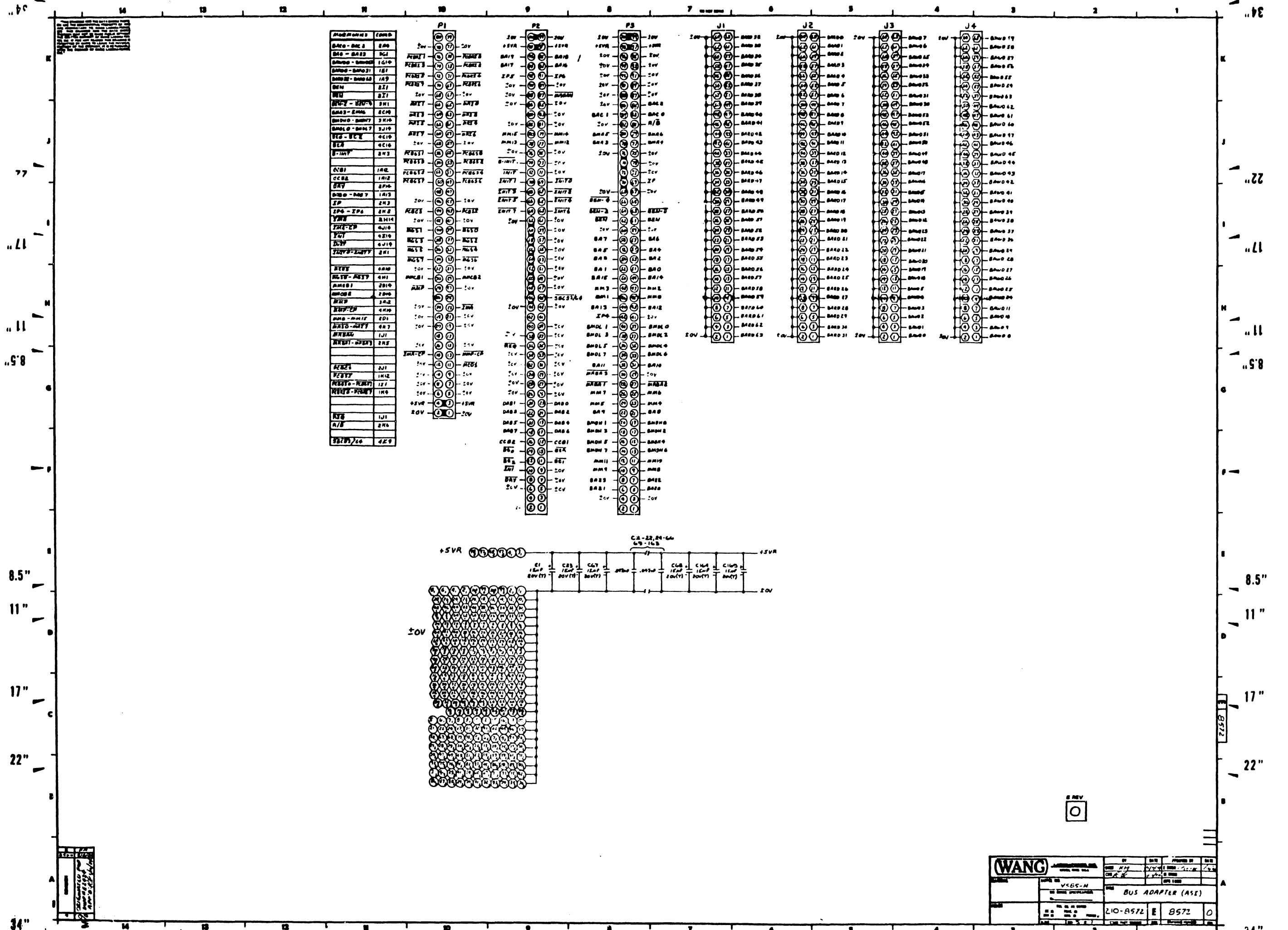
WANG		DATE	BY	CHKD	APPROVED BY
MODEL NO. V195-N		REV. 1/77	WJG/11	WJG	
SERIAL NO. 210-8572		REV. 1/77	WJG/11	WJG	
PART NO. 3572		REV. 1/77	WJG/11	WJG	
REV. 1/77		WJG/11	WJG		



(WANG)		DATE	BY	APPROVED BY	DATE
		REV	CHK	DATE	REV
PROJECT		BUS ADAPTER (AST)			
PART NO.		710-8572	E	8572	0
REV					



WANG		REV. EPT	1/20/72	BY	DATE	APPROVED BY	REV.
V585-N		BUS ADAPTER (AS1)					
20-8572		E	8572				
WW4							



Part Number	Value
1K0	1K0
1K1	1K1
1K2	1K2
1K3	1K3
1K4	1K4
1K5	1K5
1K6	1K6
1K7	1K7
1K8	1K8
1K9	1K9
2K0	2K0
2K1	2K1
2K2	2K2
2K3	2K3
2K4	2K4
2K5	2K5
2K6	2K6
2K7	2K7
2K8	2K8
2K9	2K9
3K0	3K0
3K1	3K1
3K2	3K2
3K3	3K3
3K4	3K4
3K5	3K5
3K6	3K6
3K7	3K7
3K8	3K8
3K9	3K9
4K0	4K0
4K1	4K1
4K2	4K2
4K3	4K3
4K4	4K4
4K5	4K5
4K6	4K6
4K7	4K7
4K8	4K8
4K9	4K9
5K0	5K0
5K1	5K1
5K2	5K2
5K3	5K3
5K4	5K4
5K5	5K5
5K6	5K6
5K7	5K7
5K8	5K8
5K9	5K9
6K0	6K0
6K1	6K1
6K2	6K2
6K3	6K3
6K4	6K4
6K5	6K5
6K6	6K6
6K7	6K7
6K8	6K8
6K9	6K9
7K0	7K0
7K1	7K1
7K2	7K2
7K3	7K3
7K4	7K4
7K5	7K5
7K6	7K6
7K7	7K7
7K8	7K8
7K9	7K9
8K0	8K0
8K1	8K1
8K2	8K2
8K3	8K3
8K4	8K4
8K5	8K5
8K6	8K6
8K7	8K7
8K8	8K8
8K9	8K9
9K0	9K0
9K1	9K1
9K2	9K2
9K3	9K3
9K4	9K4
9K5	9K5
9K6	9K6
9K7	9K7
9K8	9K8
9K9	9K9

WANG		REV	DATE	DESIGNED BY	CHKD BY
VCS-N		01	11/11/66	W. J. ...	...
BUS ADAPTER (AS)					
210-8572	E	B572	0		

WW5

(FINAL BILL-OF-MATERIALS)

BOARD NO. & TITLE: C0572 BUS ADAPTER (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 1
 ASSEMBLY: 210
 PARTWORK REVISION (R): 00
 ASSEMBLY REVISION (A): 00
 SCHEMATIC REVISION (S): 00
 Dwg OR MOST RECENT ECO: E2424
 CREATED: 05/09/84 09:19
 LAST MODIFIED: 05/16/84 08:18 BY: LAB
 EDITING REVISION: 1

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
C2 - C22	300-1966-	.047U	CAP CERAMIC MONO AXIAL +50 -10% 50V 25U		189
C24 - C66					
C69 - C163	300-4022-	18U	CAP TANT AXIAL 10% 20V		6
C1					
C23					
C67 - C68					
C164 - C165	330-2016-	150.000	RES FIXED METAL FILM 1/4W 5% 200PPM		3
R10					
R13					
R20					
R22	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		37
R14 - R16					
R18 - R19					
R21 - R26					
R28 - R51					
R53 - R73					
L201 - L209	370-0078-	LED	LED RED DIFFUSED RED 3MCD TYP		9
L63	376-0002-	7400	IC QUAD 2-INPUT NAND GATE		12
L116					
L119					
L135					
L138					
L173					
L216					
L233					
L260					
L274					
L296					
L322					
L191 - L192	376-0003-	7410	IC TRIP 3-INPUT NAND GATE		1
L317					
L319					

BOARD NO. & TITLE: C0572 BUS ADAPTER (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 2

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L201					
L204	376-0004-	7420	IC DUAL 4-INPUT NAND GATE		1
L60	376-0006-	7476	IC DUAL 8-TYPE POSITIVE EDGE-TRIG FLIP-FLOP		4
L190					
L234					
L299					
L253	376-0007-	7476	IC DUAL J-K FLIP-FLOP W/PRESET AND CLEAR		1
L87	376-0008-	7442	IC 1-OF-10 DECODE		5
L276 - L277					
L300					
L326					
L210	376-0010-	7404	IC HEX INVERTER		2
L245					
L91	376-0016-	7402	IC QUAD 2-INPUT NOR GATE		2
L249					
L298	376-0031-	7430	IC 8-INPUT NAND GATE		1
L317	376-0065-	74145	IC 1-OF-10 DECODER/DRIVER		1
L139	376-0081-	7400	IC QUAD 2-INPUT AND GATE		5
L171					
L186					
L194					
L145	376-0093-	7432	IC QUAD 2-INPUT POSITIVE OR GATE		2
L301					
L278	376-0098-	74174	IC HEX D FLIP-FLOP		1
L248	376-0130-	74290	IC QUAD 2-INPUT MULTIPLEXER W/STORAGE		4
L300					
L311					
L314					
L315	376-0139-	7414	IC HEX SCHMITT TRIGGER INVERTER		1
L123	376-0171-	74148	IC 8-LINE-TO-3-LINE OCTAL PRIORITY ENCODER		1
L137	376-0184-	74551	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					
L282					
L285					
L290					

BOARD NO. & TITLE: C0572 BUS ADAPTER (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 3

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L304					
L300					
L312 - L313					
L315	376-0197-	74504	IC HEX INVERTER		7
L65					
L180					
L196					
L215					
L222					
L273					
L318	376-0199-	74502	IC QUAD 2-INPUT POSITIVE-NOR GATES		2
L67					
L284	376-0200-	74500	IC QUAD 2 INPUT POSITIVE AND GATES		14
L42 - L43					
L69					
L90					
L116					
L121					
L141					
L143					
L149					
L174					
L190					
L197					
L221					
L319					
L142	376-0201-	74564	IC 4-2-2-2 INPUT AND/OR/INVERT GATE		7
L163					
L167					
L176					
L195					
L246					
L250					
L75 - L74	376-0202-	74576	IC DUAL 8-TYPE POS EDGE TRIGND F/F W/PRESET/C		13
L93					
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
L95					
L126					
L170					

BOARD NO. & TITLE: C0572 BUS ADAPTER (ASI) SCHEMATIC REVISION (S): 00 SHEET OF PAGE 4

REF. DES.	WANG PART NO.	VALUE/TYP	DESCRIPTION	DRAWING NO.	QTY.
L199					
L202					
L228					
L18	376-0206-	745260	IC DUAL 8-INPUT EXPANDER		3
L23					
L97					
L76	376-0217-	745157	IC QUAD 2 TO 1 LINE DATA SEL/MUX		20
L79					
L83					
L85					
L89					
L120					
L129 - L130					
L162					
L168					
L213					
L240					
L262					
L266					
L280					
L283 - L284					
L286 - 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					
L201					
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					
L235					
L237					
L90	376-0237-	74511	IC TRIPLE 3-INPUT AND GATE		3
L143					
L292					
376-0238-	74510		IC TRIPLE 3-INPUT NAND GATE		1
376-0244-	745200		IC 9-BIT PARITY GENERATOR/CHECKER		10
L10					
L21					

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

REF. DES.	WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
L30					
L34					
L48					
L52					
L54					
L81					
L103					
L106					
L111 - L112					
L158 - L164					
L210					
L236					
L264					
L122	376-0247-	745174	IC HEX D-TYPE FLIP-FLOP		8
L161					
L176					
L201					
L226					
L228					
L291					
L136	376-0270-	745178	IC QUAD D-TYPE FLIP-FLOP		6
L165					
L220					
L242					
L321					
L323					
L88	376-0271-	74586	IC QUAD 2 IN EXCLUSIVE OR GATE		1
L272	376-0286-	74LS374	IC OCTAL D-TYPE FLIP-FLOP TRI-STATE		1
L8	376-0288-	74LS244	IC OCTAL BUFFER/LINE DRIVER W/TRI STATE		4
L82					
L84					
L214					
L70	376-0296-	74537	IC QUAD 2-INPUT NAND BUFFER		4
L72					
L140					
L200					
L193	376-0298-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER		3
L269 - L270					
L32	376-0301-	745188	IC QUAD 2 TO 1-LINE DATA SELECTOR/MUX INVERT		13
L57 - L58					
L60					
L187 - L188					
L159 - L160					
L183					
L211 - L212					
L263					
L265					
L132	376-0308-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE		18


REF. DES.	WANG PART NO.	VALUE/TYPE	DESCRIPTION	DRAWING NO.	QTY.
L182					
L184					
L169					
L179					
L264					
L200					
L231 - L233					
L287 - L281					
L281					
L289					
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-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER		2
L187					
L80	376-0334-	745240	IC OCTAL BUFFER/LINE DRIVER		3
L77					
L327					
L6 - L7	376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS		32
L9					
L20					
L27 - L29					
L31					
L33					
L35					
L46					
L83					
L85					
L88					
L90					
L101 - L102					
L110					
L113					
L126 - L127					
L187 - L188					
L101 - L102					
L205					
L207 - L209					
L238 - L239					
L27	376-0882-	DEL LINE	IC DELAY LINE 180NS 1000HM 10 TAP		2
L71					
01 - 04	388-1001-	38V.100A	DIO SIG 38V 100MA D038		8
L293 - L294	396-0189-	8197	IC HEX BUFFER BURNED		2
01	518-8572-		PCB		1

* 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)

376-0184-	74551	IC DUAL 2 WIDE 2-INPUT AND-OR-INVERT GATES	7
376-0189-	8197	IC HEX BUFFER 16 PIN DIP	28
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-	745137	IC QUAD 2 TO 1 LINE DATA SEL/MUL	28
376-0221-	745194	IC 4 BIT SHIFT REGISTER	3
376-0228-	74500	IC QUAD 2-INPUT NAND GATE	9
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 3-BIT PARITY GENERATOR/CHECKER	18
376-0247-	745174	IC HEX D-TYPE FLIP-FLOP	4
376-0270-	745178	IC QUAD D-TYPE FLIP-FLOP	6
376-0271-	74586	IC QUAD 2 IN EXCLUSIVE OR GATE	1
376-0298-	745138	IC 3-LINE TO 8-LINE DECODER/MULTIPLEXER	3
376-0308-	745374	IC OCTAL D-TYPE EDGE-TRIG F/F TRI-STATE	18
376-0306-	745373	IC OCTAL D-TYPE LATCH TRI-STATE OUTPUTS	18
376-0333-	745139	IC 2 TO 4-LINE DECODER/MULTIPLEXER	2
376-0334-	745240	IC OCTAL BUFFER/LINE DRIVER	3
376-0349-	745189	IC 16X4-BIT STATIC RAM TRI-STATE OUTPUTS	32
396-0189-	8197	IC HEX BUFFER BURNED	2

*** END-OF-REPORT ***

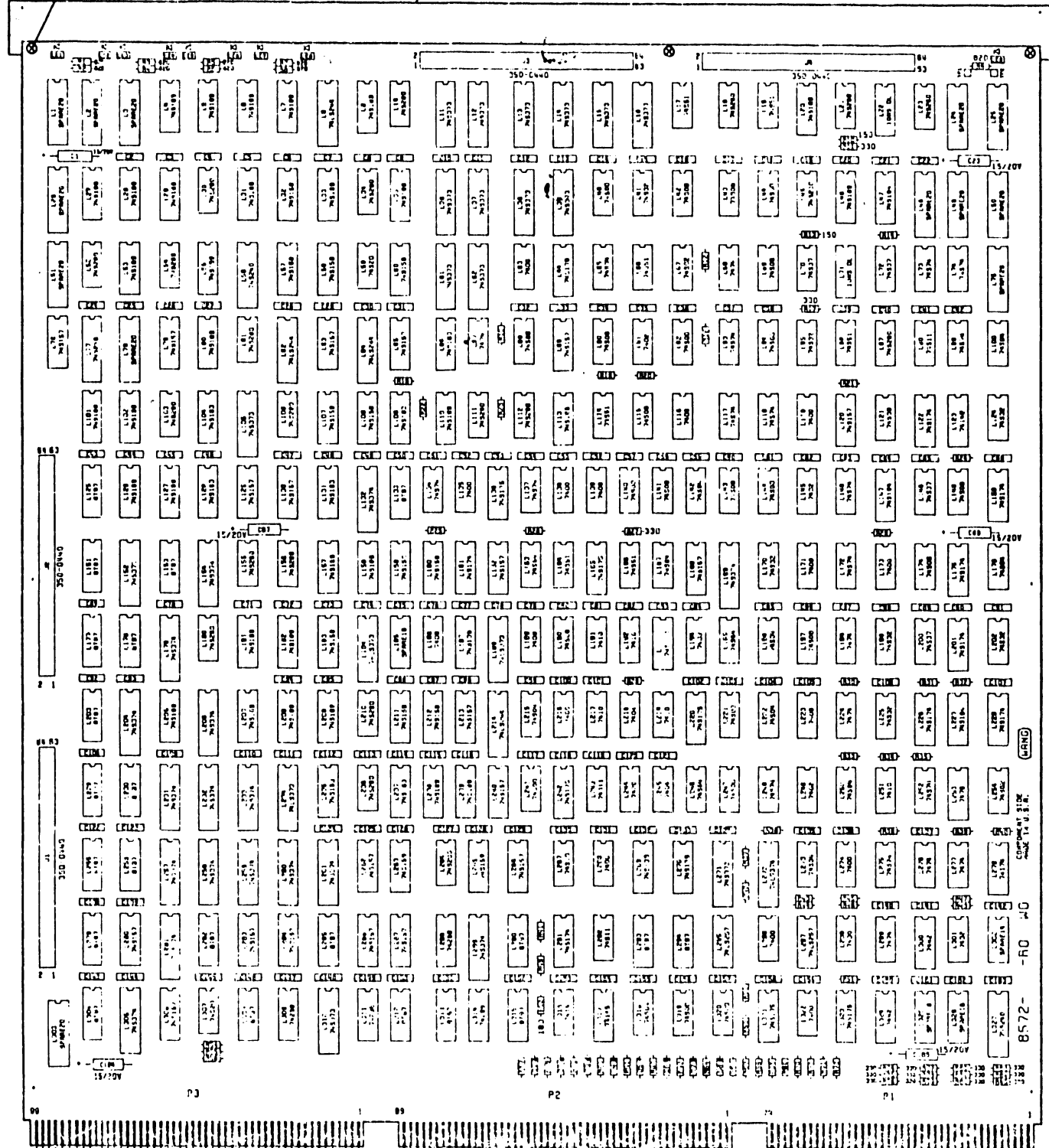
 WANG LABORATORIES, INC. LOWELL, MA U.S.A.		BY	DATE	APPROVED BY	DATE
		OWN		E ENGR	
MATERIAL MODEL NO. SEE ENGRG SPECIFICATIONS No. _____		CHK		M ENGR	
		TITLE BUS ADAPTER			
FINISH TOL EX. AS NOTED DRG = 010 FRAC = 1/64 UNLESS OTHERWISE SPECIFIED		210-8572	C	8572	0
		SCALE	SHT 7 OF 7	WANG PART NUMBER	SIZE

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DO NOT SCALE

SCREW, NO. 4-NX3/BLG. 850-2120 3 P/00

EXTENDER RAIL 452-2902 INSTALL CIRCUIT STOP



WANG
 WANG 1905 BUS ADAPTER FINELINE 8572
 ASI 5284 08 11 11/28/64
 ASSEMBLY PLOT
 REV. 1 PCB ECO NO. 33479 12SEP64

NOTES - 1. UNLESS OTHERWISE SPECIFIED -
 ALL CAPACITORS ARE 50V, 100-1500, EXPRESSED IN MICROFARADS.
 ALL RESISTORS ARE 1/4W, 5 PERCENT, EXPRESSED IN OHMS.
 ALL LEADS ARE 30G-AWG.
 ALL DIMS ARE 300-410.
 ALL TEST POINTS PNE 631 0022.

REV	BY	DATE	DESCRIPTION
1	WJ	11/28/64	ASSEMBLY PLOT

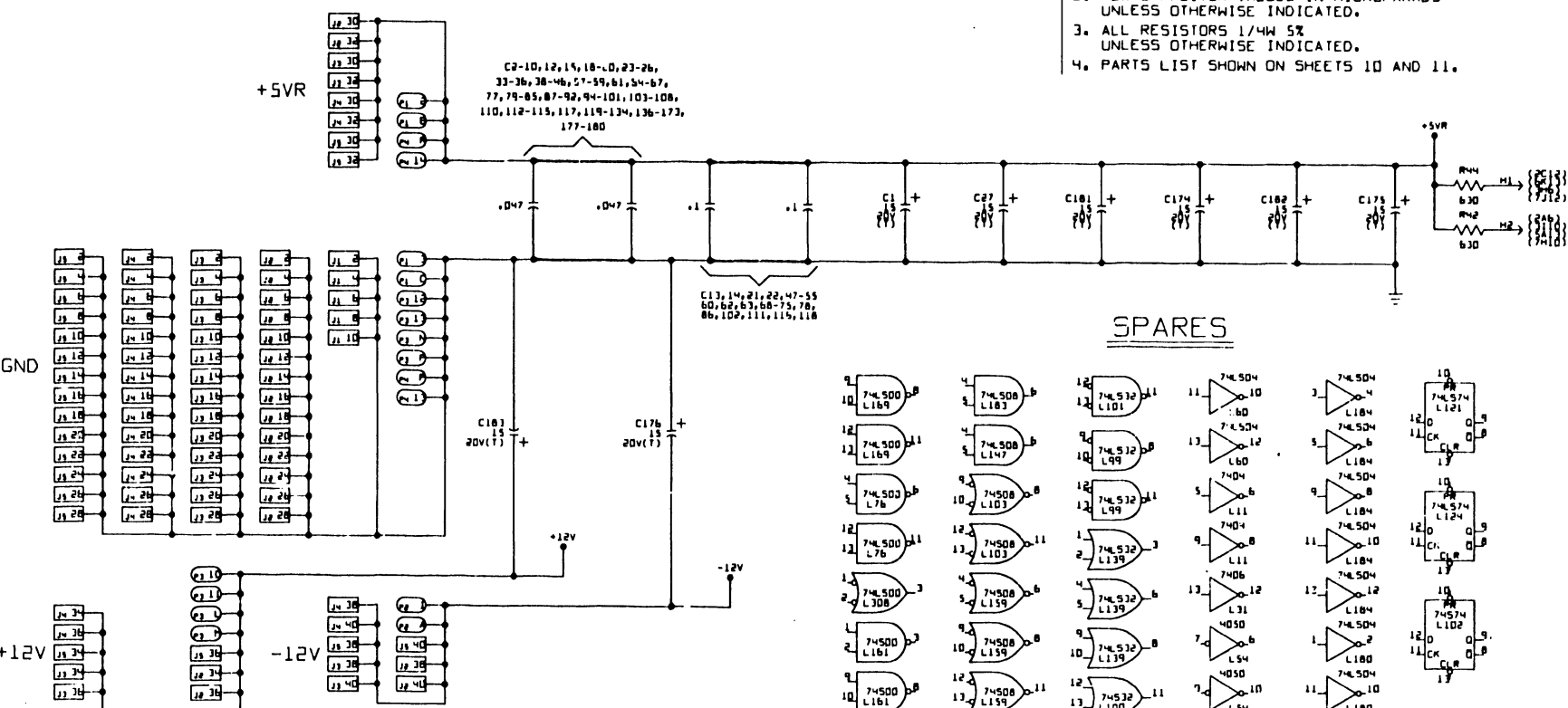
WW8

WANG LABORATORIES, INC.		BY	DATE	APPROVED BY	DATE
DESIGN	WJ				
CHKD					
APPR					
TITLE		WANG 1905 BUS ADAPTER			
PART NO.		8572			
FINISH		1			

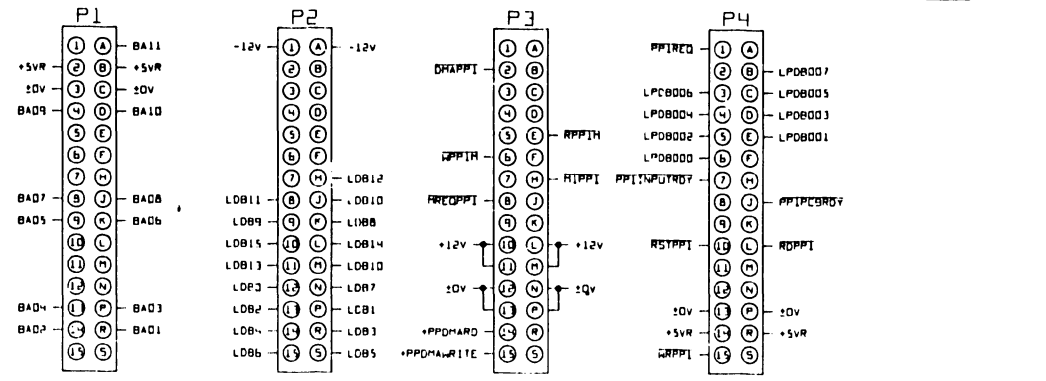
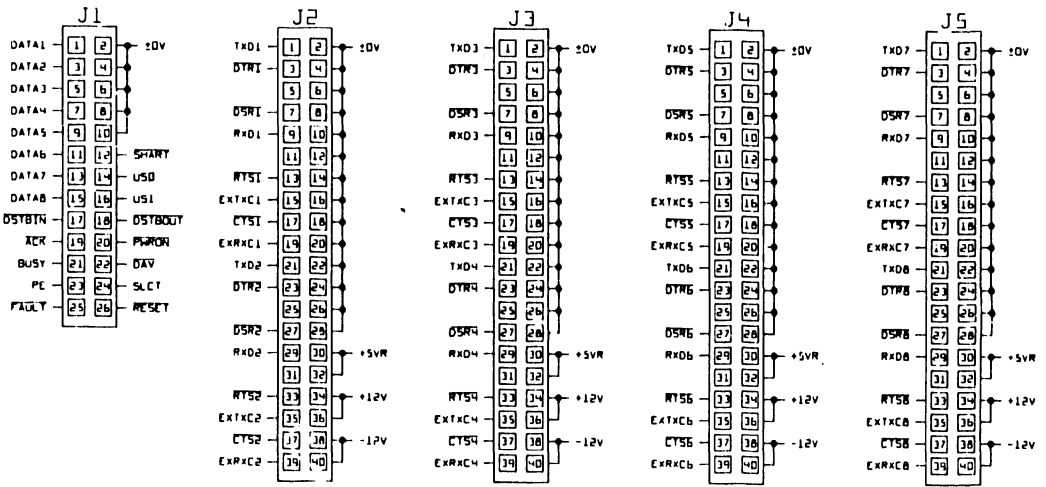
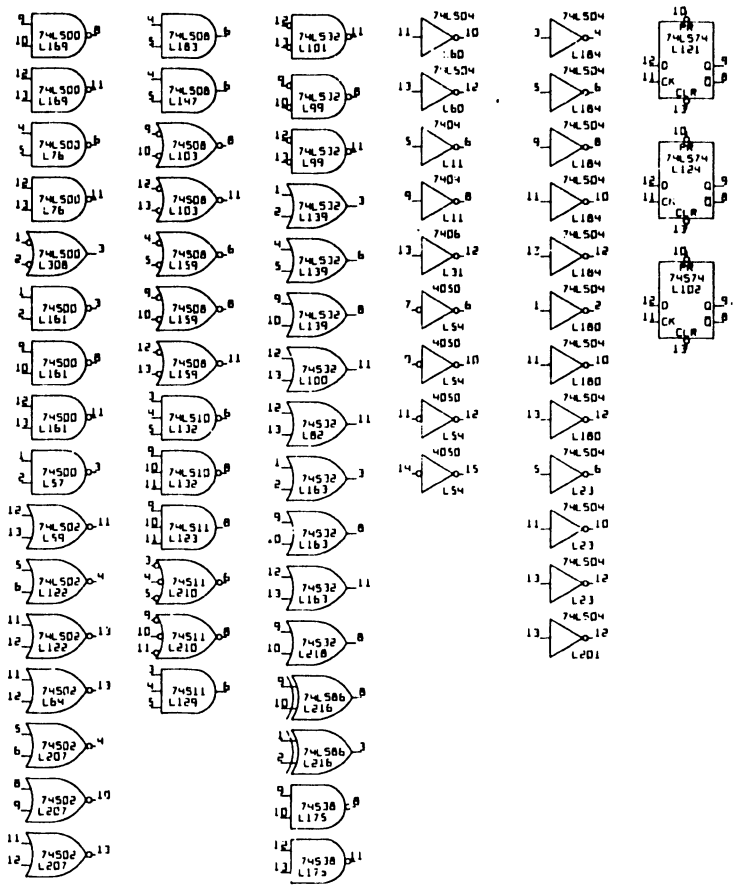
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- NOTES**
1. ALL RESISTOR VALUES IN OHMS.
 2. ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE INDICATED.
 3. ALL RESISTORS 1/4W 5% UNLESS OTHERWISE INDICATED.
 4. PARTS LIST SHOWN ON SHEETS 10 AND 11.

PNEUMONICS	COORD.	PNEUMONICS	COORD.
ACK	9K14	RPPPT	8Q14
BA01-BA11	9F14	RTSCT	9B1
BA09	9A14	RSTPT	2F14
CTSI-CTSE	8Q8	R131	8K1
CTSI	818	R132	8Q1
CTSE	8J8	R133	8J1
CTSS-CTSE	8Q14	R134	8E8
CTST	8114	R136	8B8
CTSN	8J14	R137	8J8
DATA1-DATA8	9H14	R138	8J8
DATA9	9M14	R201	8K8
DATA10	9N14	R202	8K8
DATA11	9114	R203-R204	818
DATA12	9C9	R205	8C14
DATA13	9C9	R206	8Q14
DATA14	9C9	R207-R208	8114
DATA15	9C9		
DATA16	9C9		
DATA17	9C9		
DATA18	9C9		
DATA19	9C9		
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DATA100	9C9		

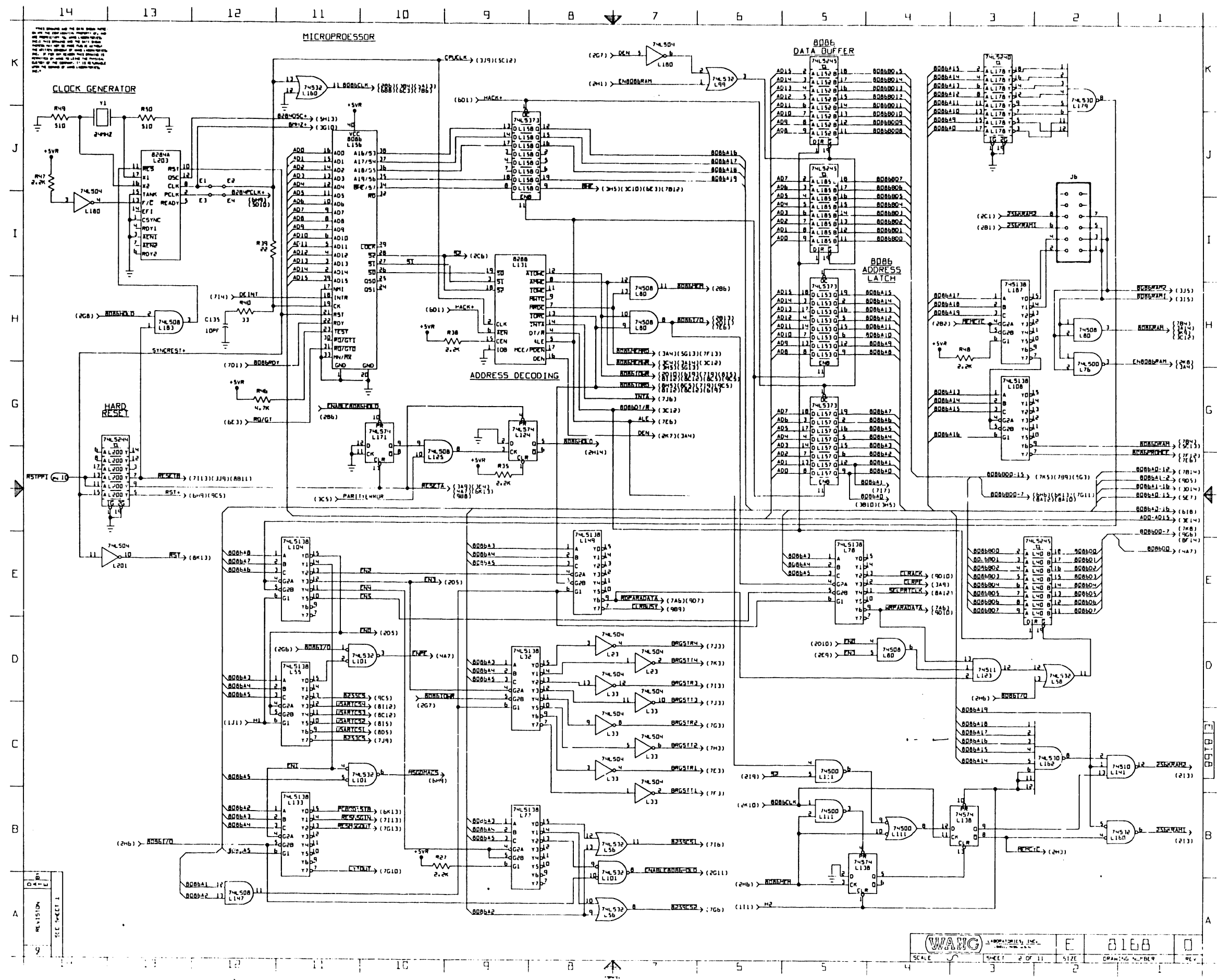


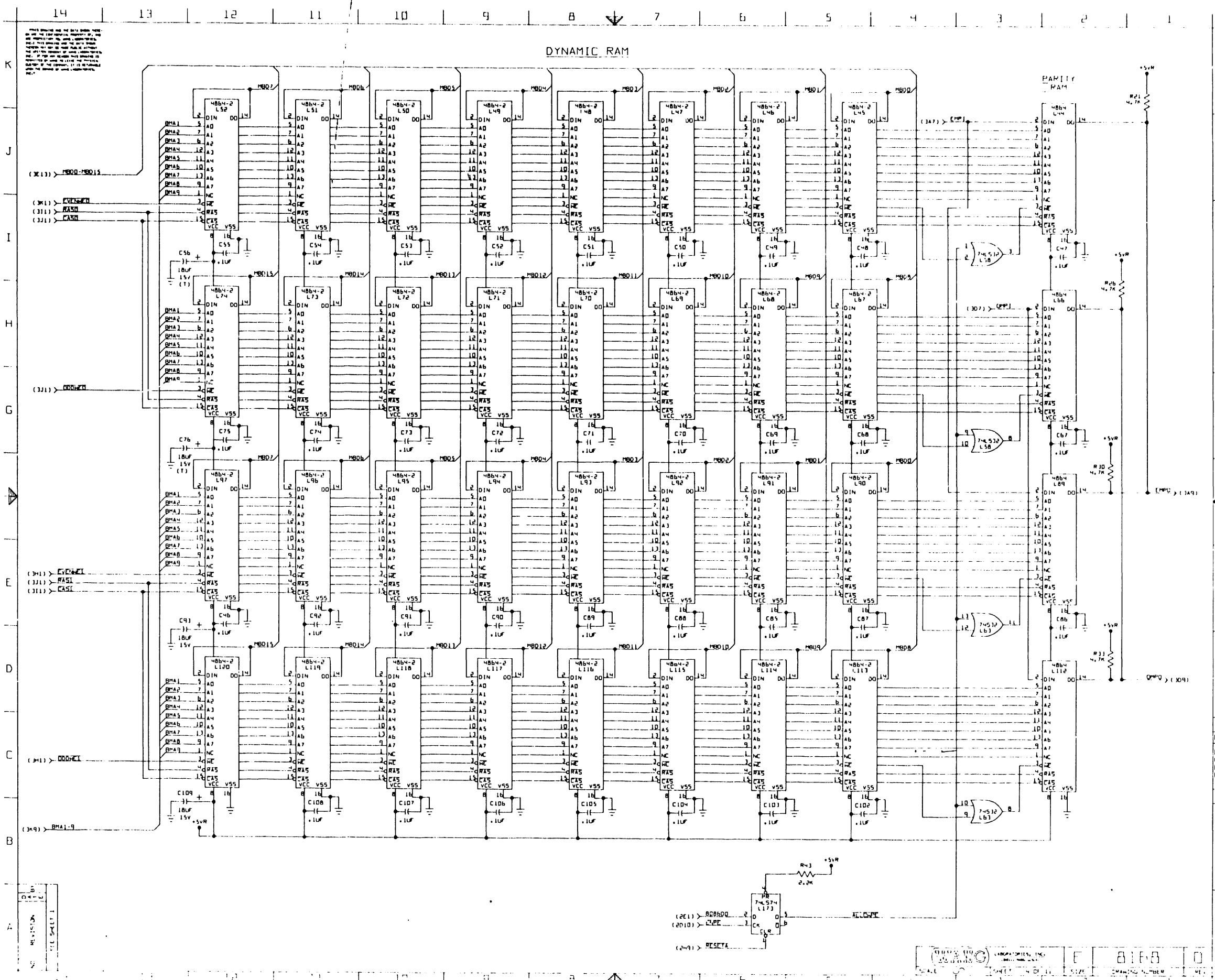
SPARES



REV	DATE	BY	CHKD
1	11/21/84		

WANG LABORATORIES, INC.		SCHEMATIC DIAGRAM	
TITLE: ASYNC DEVICE CONTROLLER M/L		E 8168	
MODEL NUMBER: VS 100	WANG PART NUMBER: 210-8168	DATE: 11/21/84	REV: 0
SCALE: 1/8" = 1"	SHEET: 1 OF 11	SIZE: 8 1/2" x 11"	DRAWING NUMBER: 210-8168





4864-2 L52
4864-2 L51
4864-2 L50
4864-2 L49
4864-2 L48
4864-2 L47
4864-2 L46
4864-2 L45
4864-2 L44
4864-2 L43
4864-2 L42
4864-2 L41
4864-2 L40
4864-2 L39
4864-2 L38
4864-2 L37
4864-2 L36
4864-2 L35
4864-2 L34
4864-2 L33
4864-2 L32
4864-2 L31
4864-2 L30
4864-2 L29
4864-2 L28
4864-2 L27
4864-2 L26
4864-2 L25
4864-2 L24
4864-2 L23
4864-2 L22
4864-2 L21
4864-2 L20
4864-2 L19
4864-2 L18
4864-2 L17
4864-2 L16
4864-2 L15
4864-2 L14
4864-2 L13
4864-2 L12
4864-2 L11
4864-2 L10
4864-2 L9
4864-2 L8
4864-2 L7
4864-2 L6
4864-2 L5
4864-2 L4
4864-2 L3
4864-2 L2
4864-2 L1

(X11) M800-M8013
(M1) CLEVER
(M1) RAS
(M1) CAS

(M1) CLEVER
(M1) RAS
(M1) CAS

(M1) CLEVER
(M1) RAS
(M1) CAS

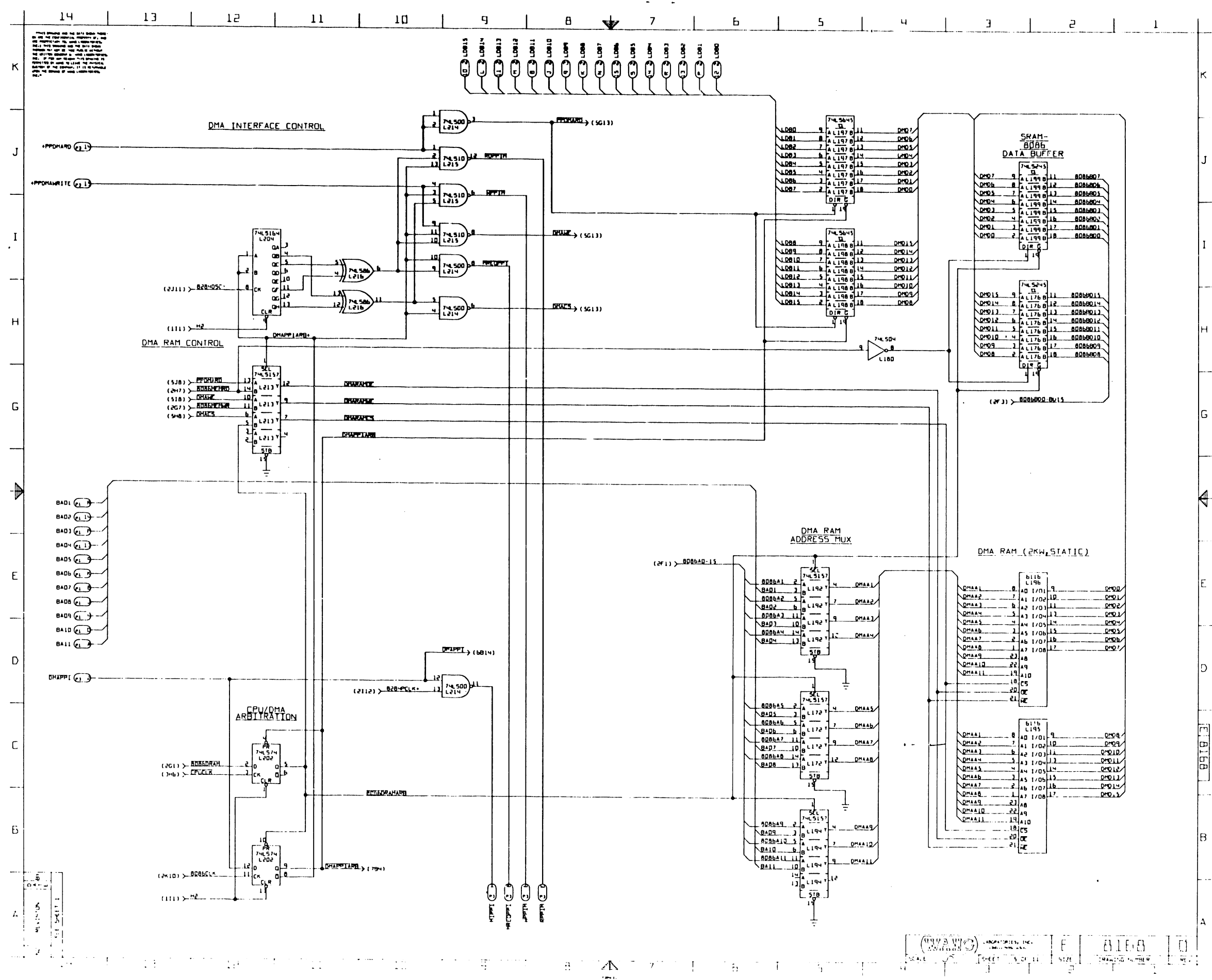
(M1) CLEVER
(M1) RAS
(M1) CAS

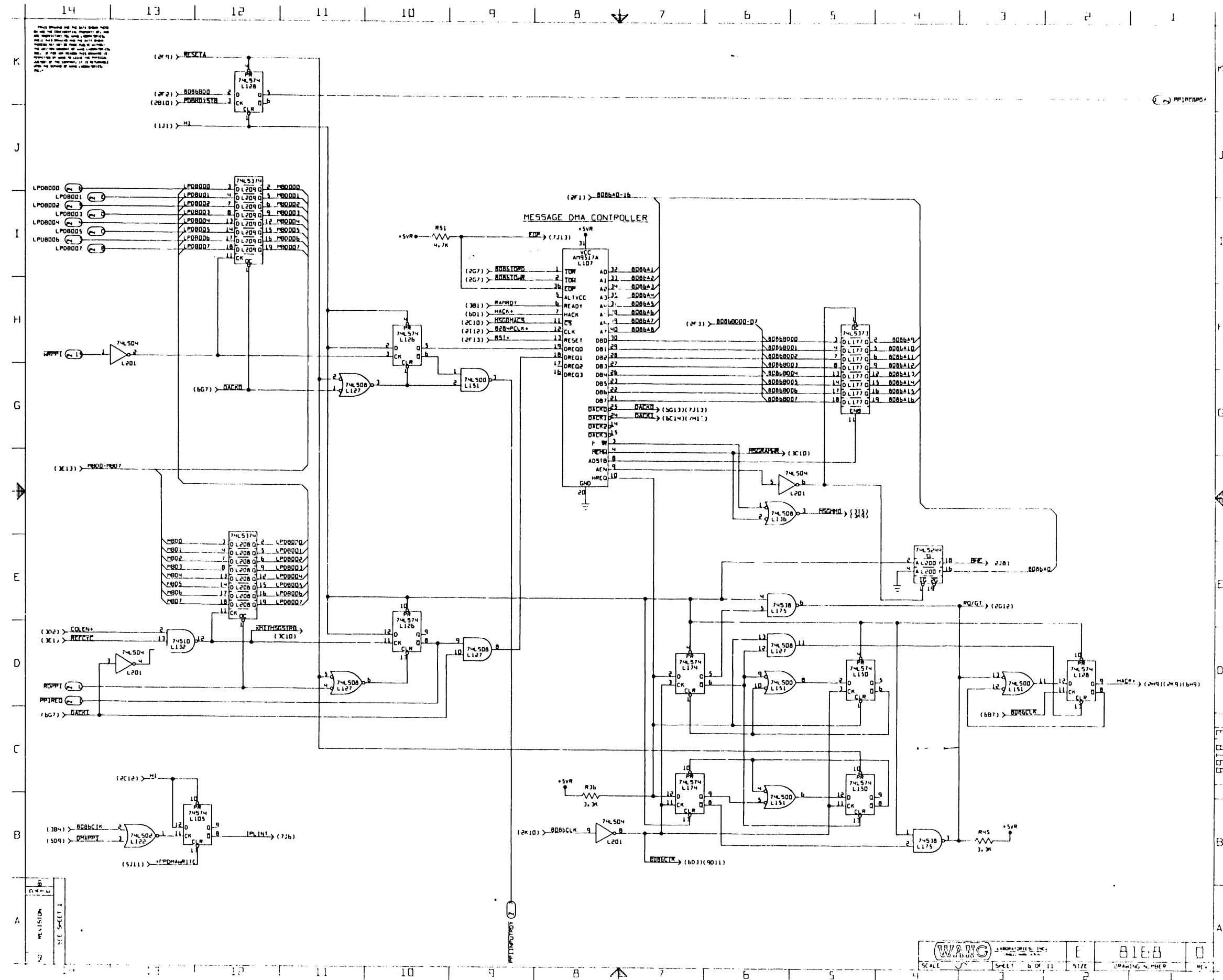
(M1) CLEVER
(M1) RAS
(M1) CAS

(M1) CLEVER
(M1) RAS
(M1) CAS

(2E1) 80880
(2D10) CLEVER
(2H1) RESETA

8168
SCALE
DATE
SIZE
REVISION NUMBER

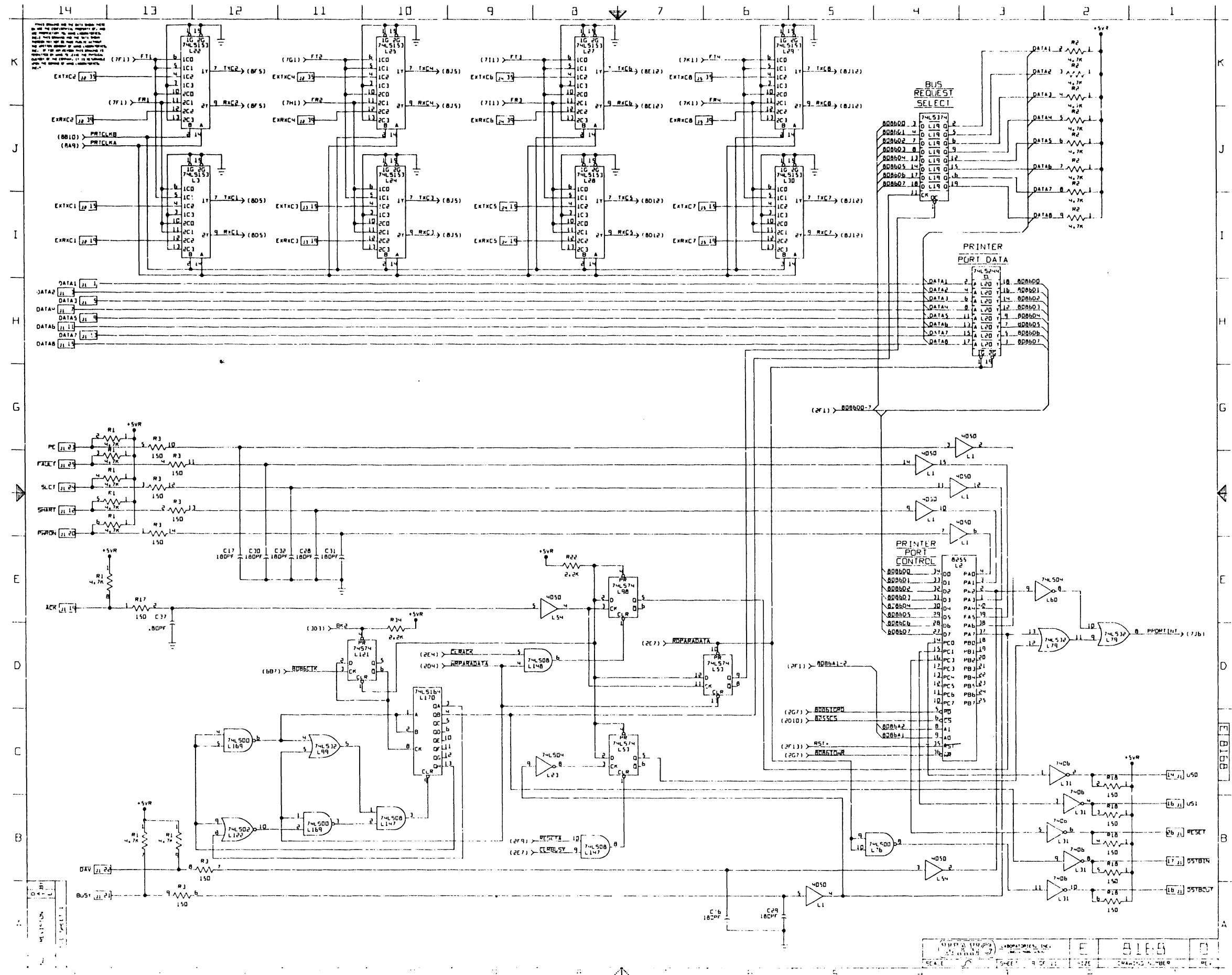




74LS174 (L128)
 74LS174 (L127)
 74LS174 (L175)
 74LS174 (L150)
 74LS174 (L126)
 74LS174 (L127)
 74LS174 (L127)
 74LS174 (L127)

REVISION
 SHEET 1

WANG
 SCALE
 SHEET 6 OF 11
 SIZE
 8168
 DRAWING NUMBER



17"

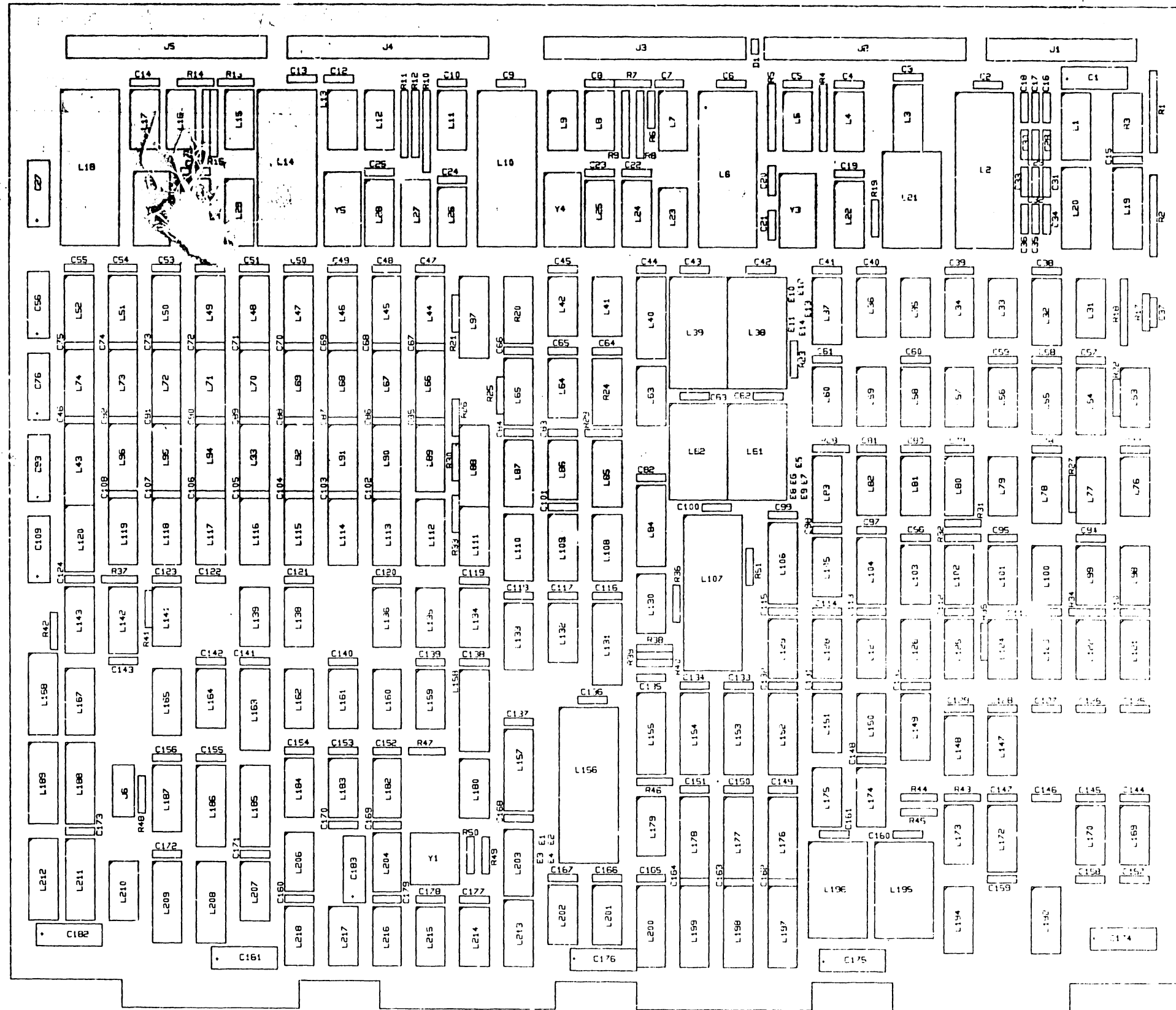
11"

8.5"

8.5"

17"

XX10



8168

17"

11"

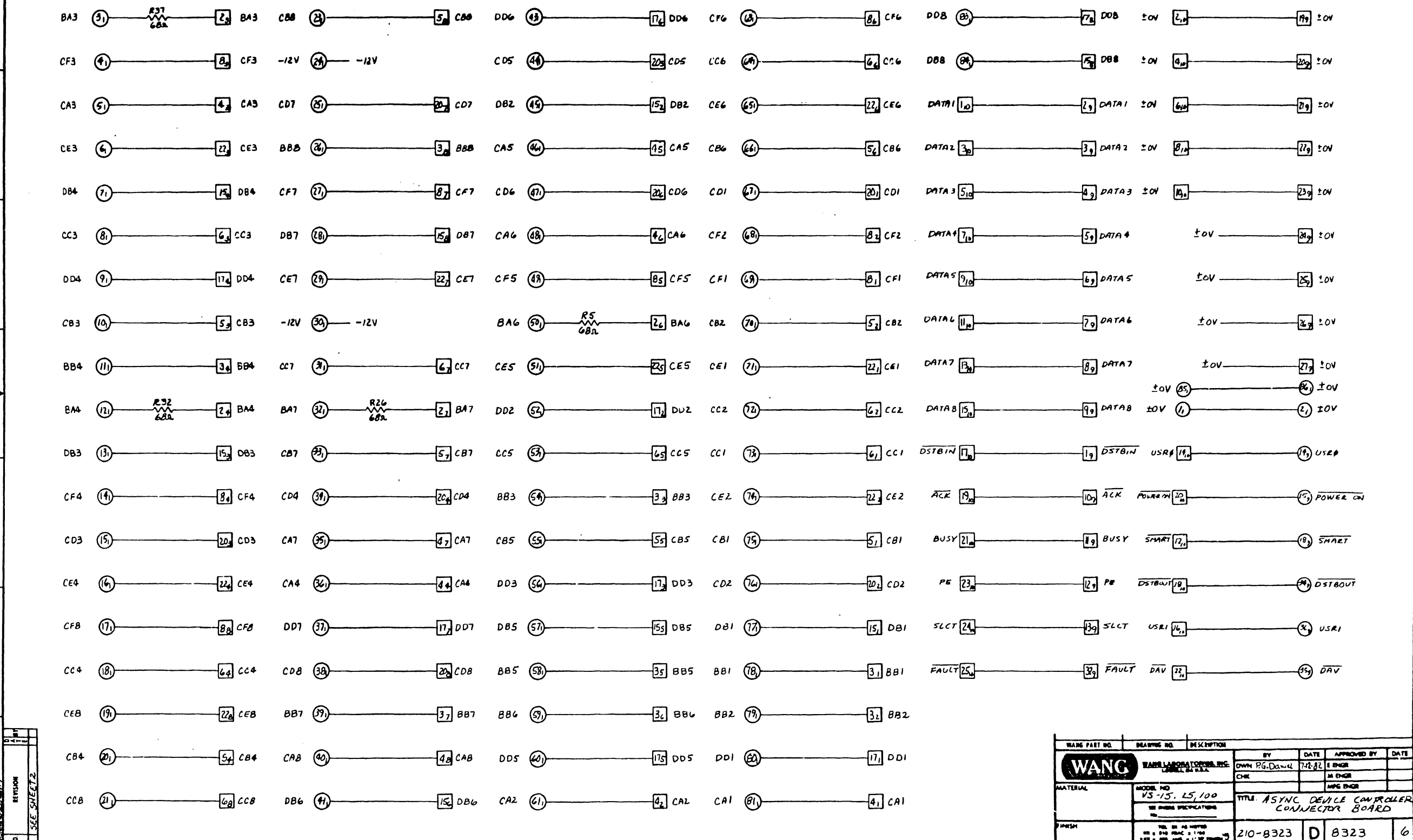
8.5"

8.5"

11"

17"

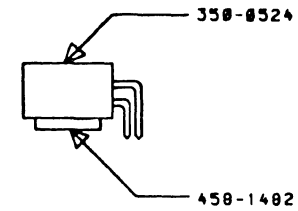
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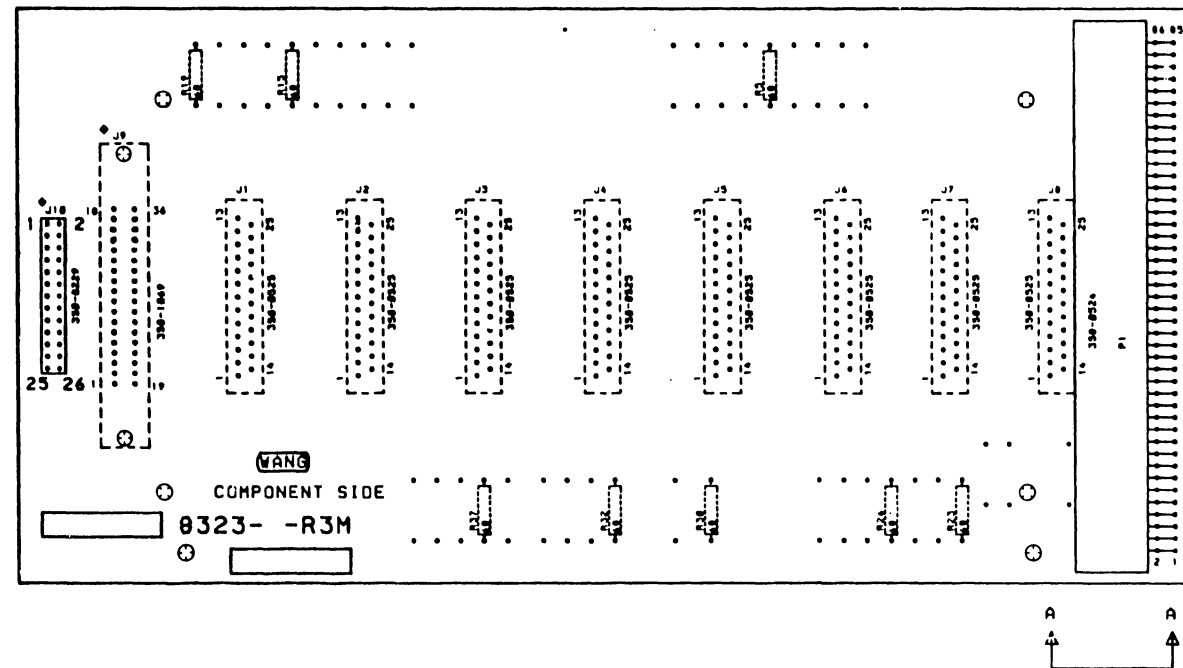
NO.	REVISION
1	SEE SHEET 2

WANG PART NO.	DRAWING NO.	DESCRIPTION
WANG	WANG LABORATORIES, INC.	LABORATORY
MATERIAL	MODEL NO. VS-15, LS-100	SEE PART SPECIFICATIONS
FINISH	SEE PART SPECIFICATIONS	SEE PART SPECIFICATIONS
BY	DATE	APPROVED BY
OWN PG. Daniel	7-2-82	E ENGR
CHK		M ENGR
		MFG ENGR
TITLE: ASYNC DEVICE CONTROLLER CONNECTOR BOARD		
210-8323	D	8323
6		

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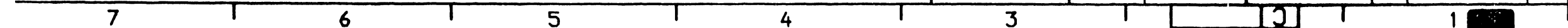


DETAIL A-A

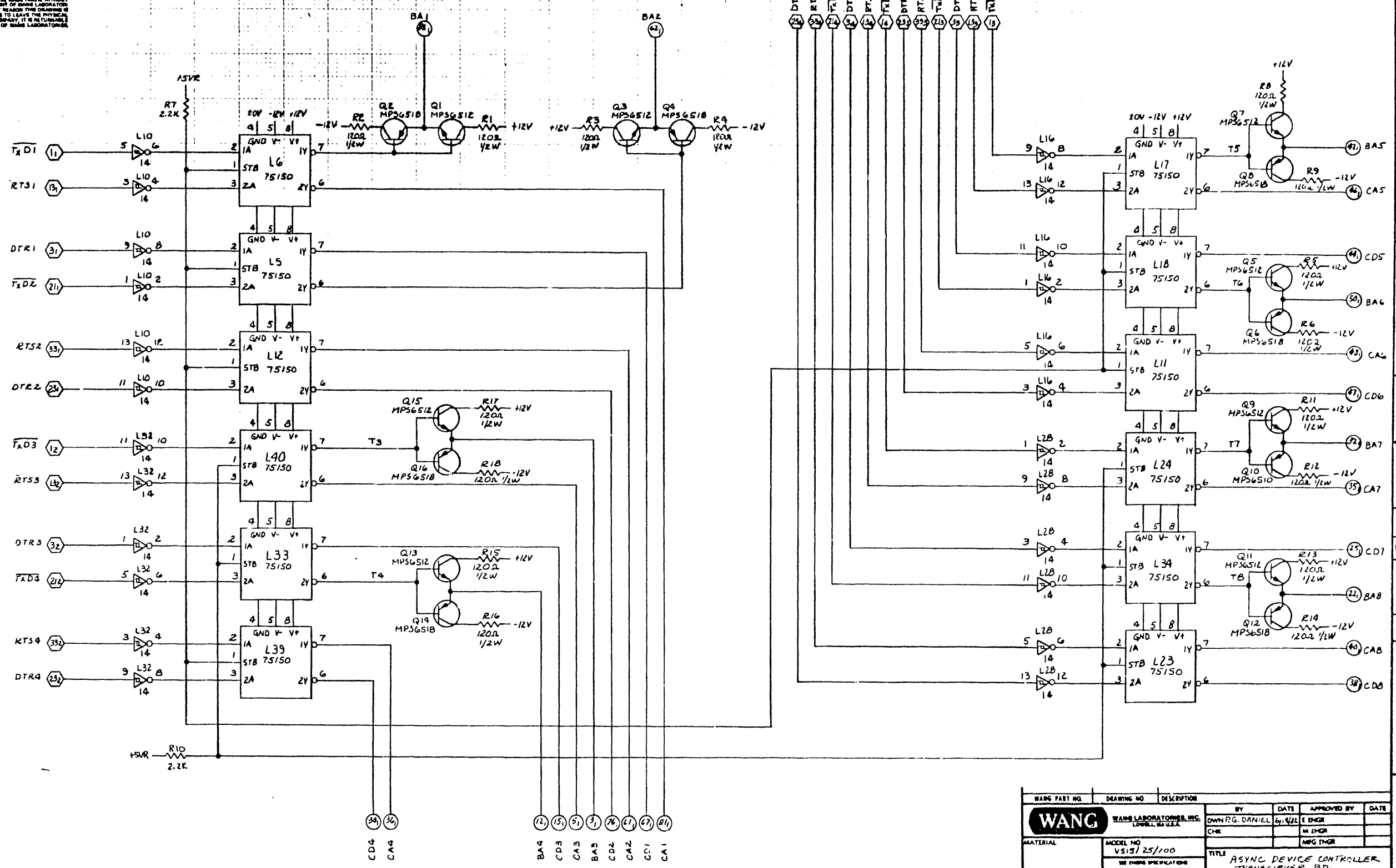


NOTES: 1. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W, 5% EXPRESSED IN OHMS.
 2. ALL COMPONENTS OTHER THAN P1 AND J18 ARE MOUNTED ON CIRCUIT SIDE OF BOARD.
 3. DO NOT LOAD J18 OR J19 FOR 218-8323-1

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



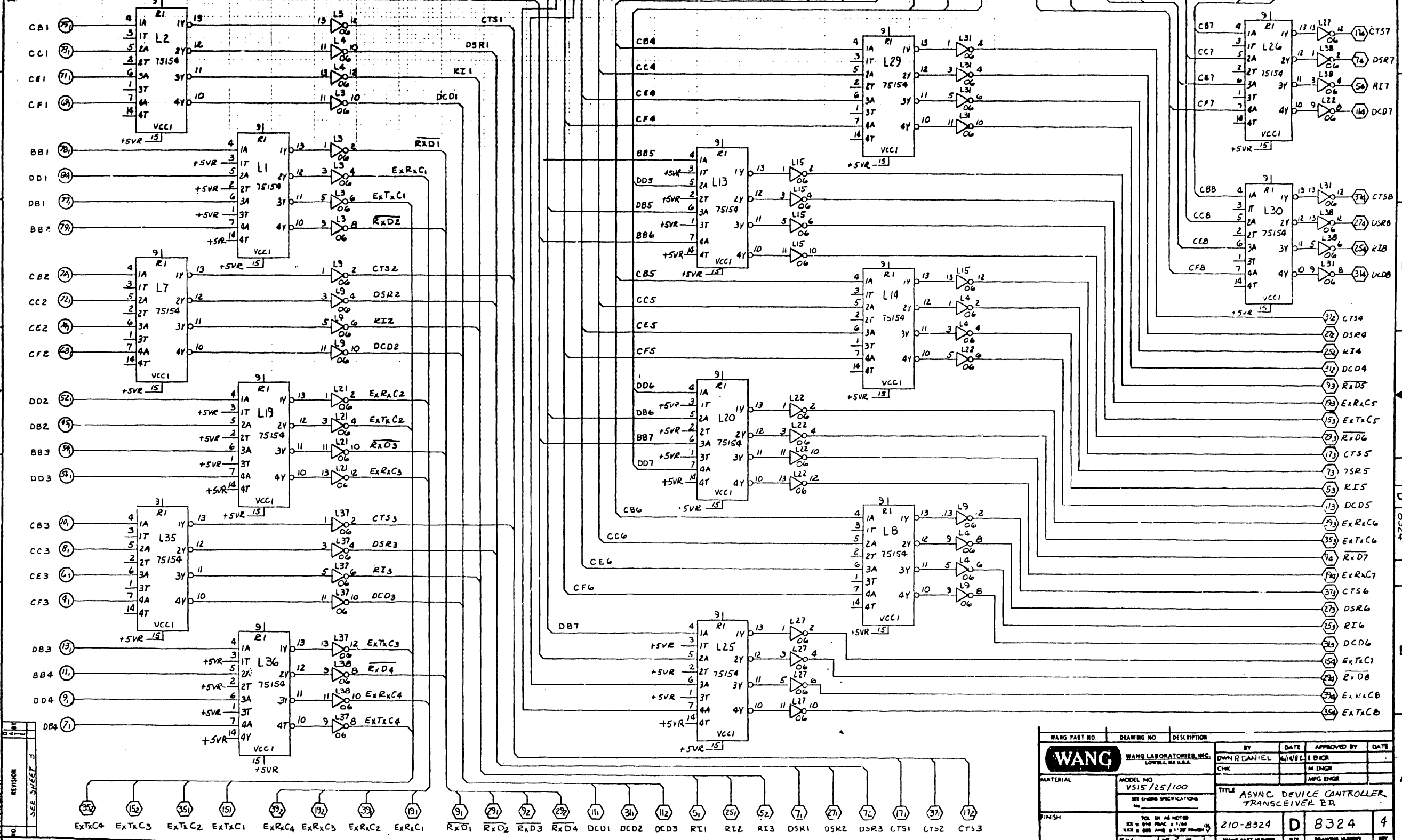
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NO.	REVISION
1	SEE SHEET 3

WANG PART NO.	DEPARTING NO.	DESCRIPTION	BY	DATE	APPROVED BY	DATE
WANG	WANG LABORATORIES, INC. LOWELL, MA U.S.A.	MODEL NO. VS13/25/100	DAVID P.G. DANIEL	6/1/72	E. ENGR.	
MATERIAL	SEE THIS SPECIFICATION	TITLE	CHK.		M. ENGR.	
FINISH	SEE THIS SPECIFICATION	210-8324			MFG ENGR.	
		210-8324				

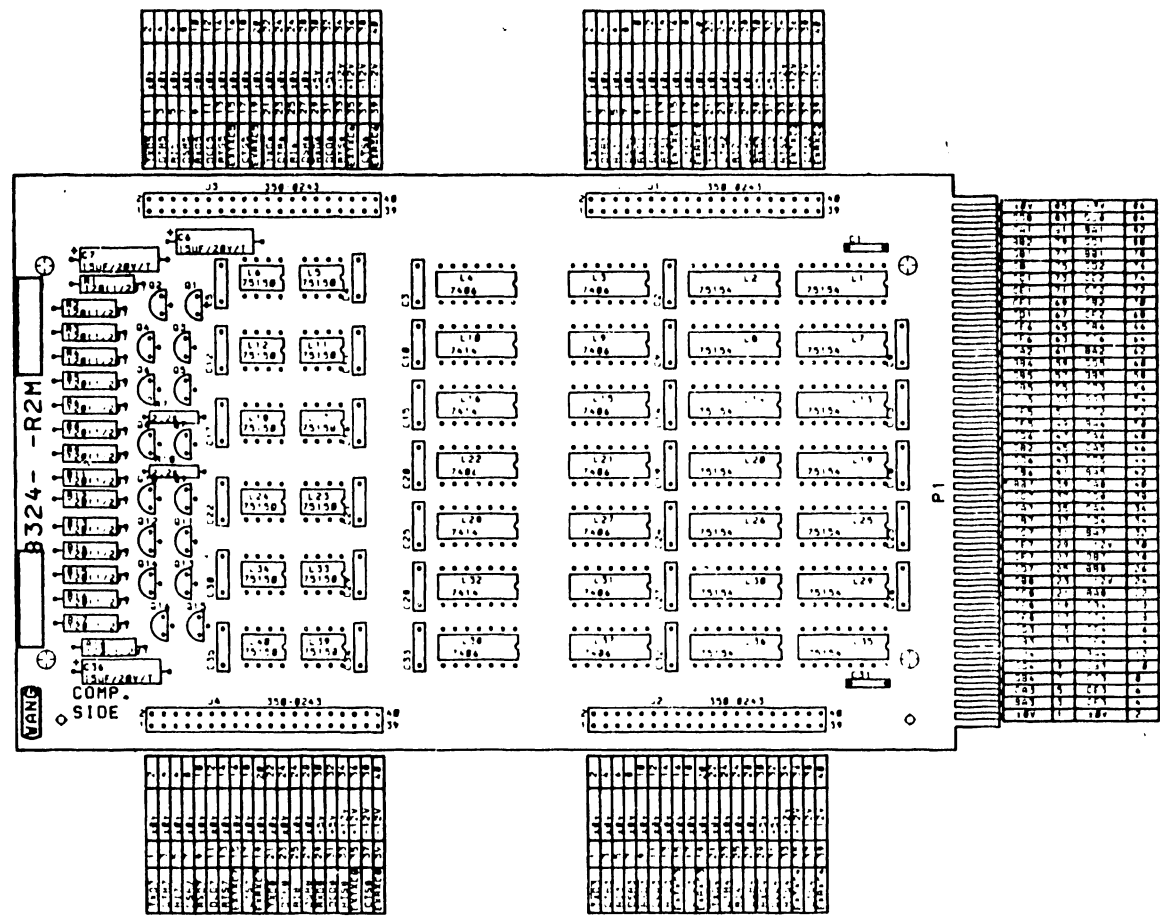
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REV	DESCRIPTION
1	SEE SHEET 3

WANG PART NO	DRAWING NO	DESCRIPTION	BY	DATE	APPROVED BY	DATE
			DWY R DANIEL	4/14/82	E ENGR	
			CHK		M ENGR	
					MFG ENGR	
MATERIAL	MODEL NO	TITLE				
	V515/25/100	ASYNC DEVICE CONTROLLER TRANSCEIVER BR				
FINISH	SEE DRAWING SPECIFICATIONS					
	SEE DRAWING SPECIFICATIONS					
		210-8324	D	8324	4	

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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.

WANG 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 <small>SEE ENGR SPECIFICATIONS NO. 10-203</small>		CHK		M ENGR	
		E C CONTROL		MFG ENGR	
FINISH <small>ALL LK. AS NOTED</small> <small>SEE ENGR SPECIFICATIONS NO. 10-203</small>		TITLE		ASYNC DEVICE	
		CONTROLLER TRANSCEIVER BD.		ASSEMBLY DRAWING	
SCALE 1/1		210-B324-R2	C	8324	3
SHEET 1 OF 1		WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

WANG

LABORATORIES, INC

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

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END