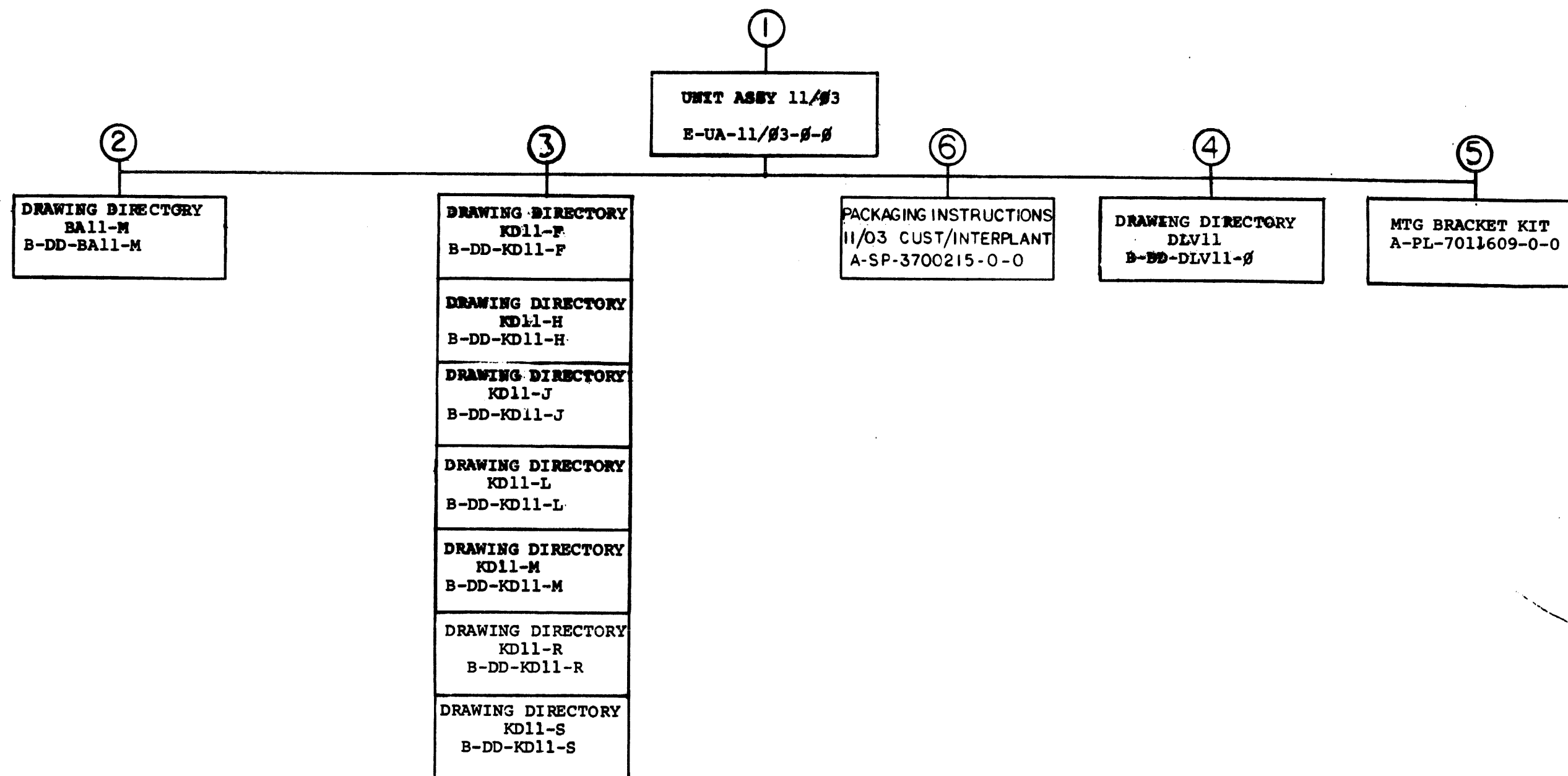


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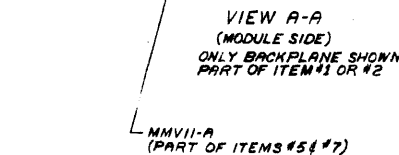
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REVISED & REDRAWN		REV	
3-77	11/03-5	D	
3-77	11/03-6	E	
8-77	11/03-7	F	



TITLE DRAWING DIRECTORY PDP 11/03	SHEET 2 OF 3	SIZE CODE B DD	NUMBER 11/03-0	REV F
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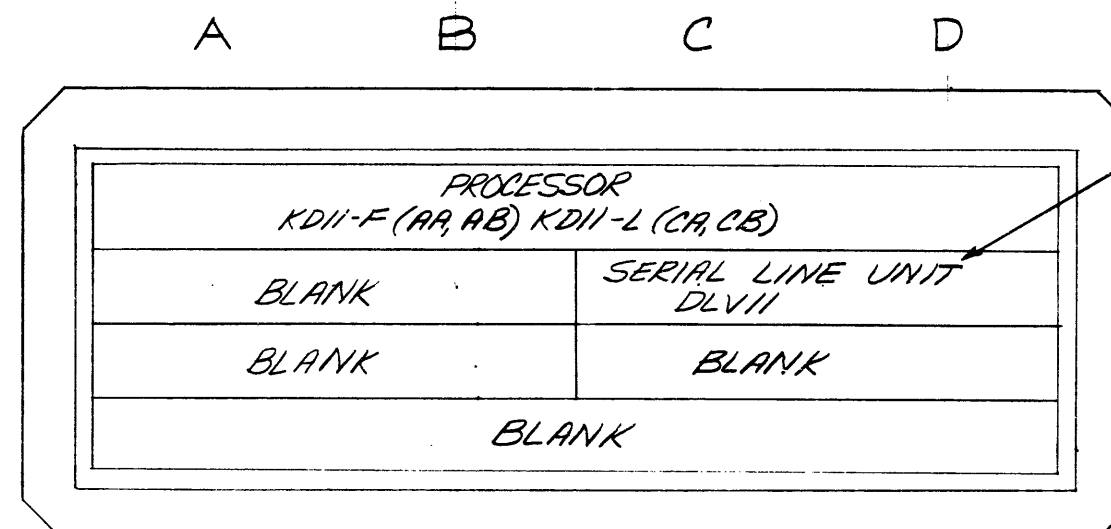
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		PART 1000-04 11/03	10-08-00
RECEIVING NUMBER AND STREET NAME/NUMBER		TITLE UNIT ASSEMBLY 11/03	
DO NOT SCALE THIS DRAWING		UNIT ASSEMBLY 11/03	
SEE PART 1000-04 PART 1000-04		SCALE 1/4" = 1'-0"	11/03-0-0

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NOTES:

1. THIS MODULE UTILIZATION WILL BE USED FOR: 11/03-AA, 11/03-AB, 11/03-CA, 11/03-CB, 11/03-EA, 11/03-EB, 11/03-GA, 11/03-GB
2. 11/03-EA, 11/03-EB, 11/03-GA, AND 11/03-GB DO NOT INCLUDE DLV-II.



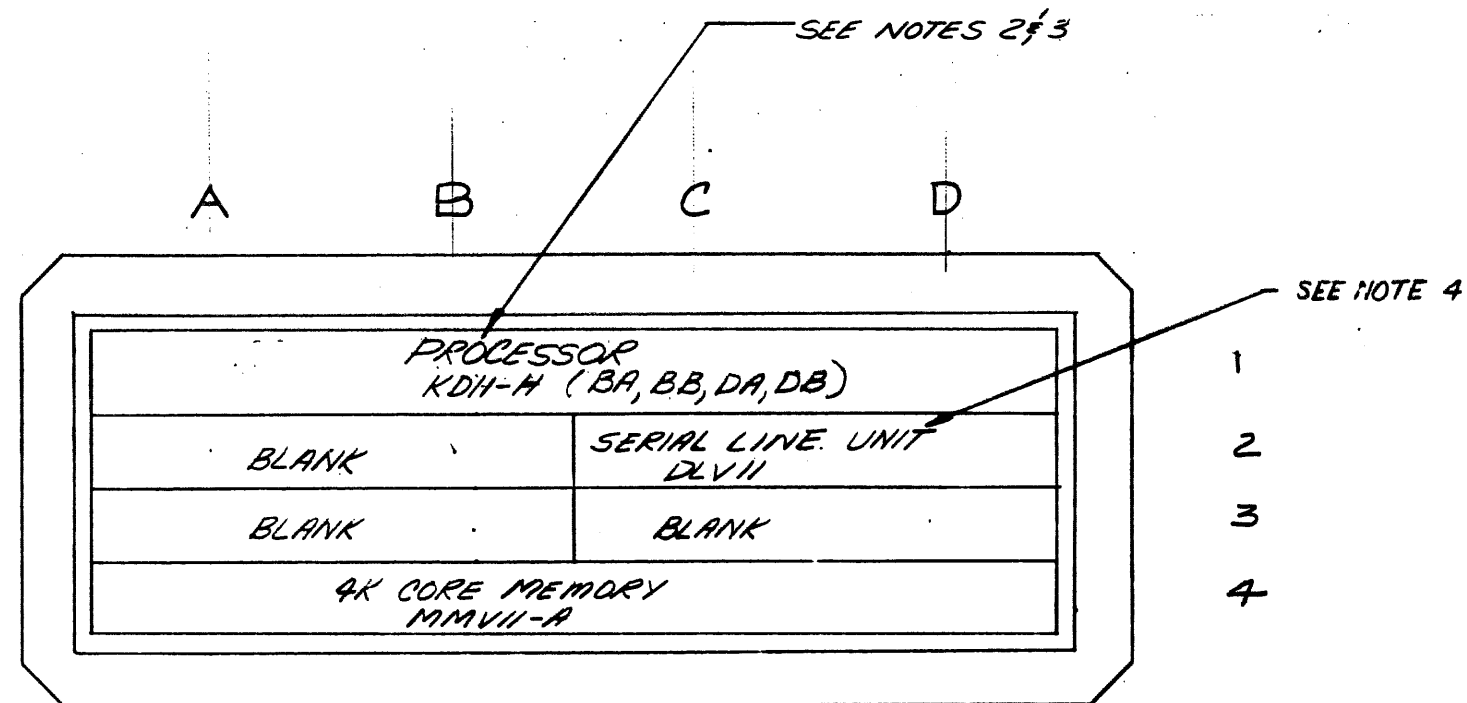
SEE NOTE 2

VIEW FROM MODULE SIDE
OF BACKPLANE

REV.	CHANGE NO.	REVISIONS
A	11/03-00001	11/03-00001
		J. BIRO
		25 NOV 75

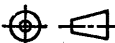
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/03					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN. <i>[Signature]</i>	DATE 9/23/75		
		CHK'D <i>[Signature]</i>	DATE		
		ENG. <i>[Signature]</i>	DATE 7/23/75		
		PROJ. ENG. <i>[Signature]</i>	DATE 9/23/75		
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ☒	DATE 7/12/75	TITLE	
			NEXT HIGHER ASSY.	MODULE UTILIZATION (11/03)	
MATERIAL <i>[Blank]</i>		B-DD-11/03-0	SIZE CODE C MU	NUMBER 11/03-0-3	REV. A
FINISH <i>[Blank]</i>		SCALE <i>[Blank]</i>			
		SHEET OF 1			

1. THIS MODULE UTILIZATION
WILL BE USED FOR: 11/03-BA,
11/03-BB, 11/03-DA, 11/03-DB
11/03-FA, 11/03-FB, 11/03-HA, 11/03-HB.
2. KDII-H WITH MMVII-A BECOMES
KDII-J.
3. KDII-H WITH MMVII-A AND KEVII
BECOMES KDII-M.
4. 11/03-FA, 11/03-FB, 11/03-HA, AND
11/03-HB DO NOT INCLUDE DLVII.



VIEW FROM MODULE SIDE
OF BACK PLANE

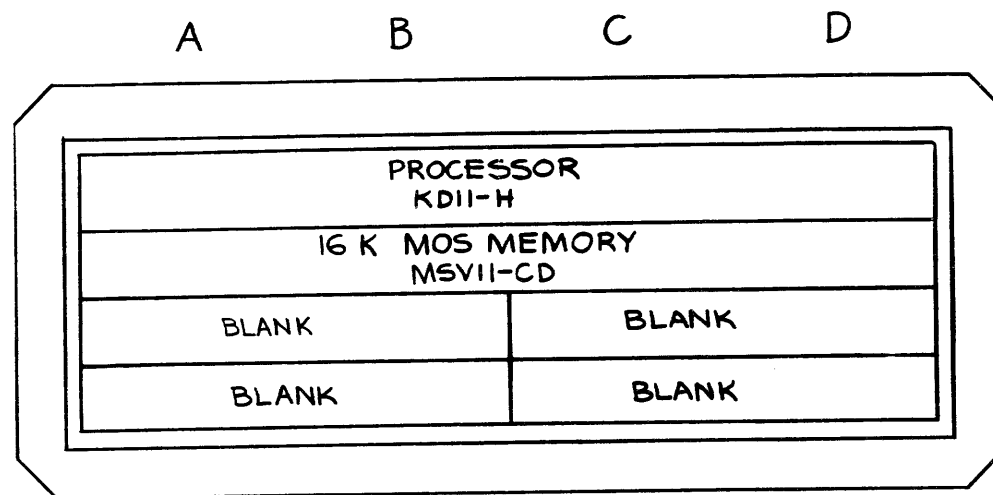
REVISIONS		
CHK	CHANGE NO.	REV.
12	1103-00001	A
J. BIRO		
25 AUG 75		

FIRST USED ON OPTION/MODEL			QTY.	DESCRIPTION	PART NO.	ITEM NO.		
11/03								
DIMENSIONAL TOLERANCE			PARTS LIST					
DIMENSIONS ARE <u>MILLIMETERS</u> INCHES UNLESS OTHERWISE SPECIFIED			DRN <i>[Signature]</i>	DATE 9/58/73	digital			
			CHN <i>[Signature]</i>	DATE				
			ENG <i>[Signature]</i>	DATE				
			PROJ. ENG. <i>[Signature]</i>	DATE				
MILLIMETERS	INCHES	ANGLES	PROJ.	DATE	TITLE MODULE UTILIZATION (11/03)			
X,XX = ± 0.10	.XXX = ± .005	± 0° 30'	PROJ.	DATE				
X,X = ± 0.5	.XX = ± .02		PROJ.	DATE				
X = ± 2.	.X = ± .1		PROJ.	DATE				
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		NEXT HIGHER ASSY.					
	MATERIAL	<i>—H—</i>	B-DD-11/03-0		SIZE	CODE	NUMBER	REV.
	FINISH	<i>—H—</i>	SCALE <i>—H—</i>		C	MU	11/03-0-4	A
			SHEET <i>—H—</i> OF <i>1</i>		DIST.			

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NOTES:

1 THIS MODULE UTILIZATION WILL BE USED FOR: 11/03-KA, 11/03-KB, 11/03-MA, 11/03-MB.



VIEW FROM MODULE SIDE
OF BACKPLANE

REV.	CHANGE NO.	CHK
A	11/03-00006	B. Clinson
B	11/03-00007	J. BIRN
C	11/03-00008	D. BENNETT
D	11/03-00009	D. BENNETT

THIRD ANGLE PROJECTION		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES			
ANGLES ±0° 30'		MEDIUM		OVER 0 TO 0.2		OVER 0.2 TO 0.5	
SURFACE QUALITY IN		PREFERRED		OVER 0.5 TO 1.2		OVER 1.2 TO 2.5	
MICRONCHES				OVER 2.5 TO 6.3		OVER 6.3 TO 12.5	
QUANTITY & VARIATION				OVER 12.5 TO 25.0		OVER 25.0 TO 50.0	
				OVER 50.0 TO 100.0		OVER 100.0 TO 200.0	
				OVER 200.0 TO 400.0		OVER 400.0 TO 800.0	
				OVER 800.0 TO 1600.0		OVER 1600.0 TO 3200.0	
				OVER 3200.0 TO 6400.0		OVER 6400.0 TO 12800.0	
				OVER 12800.0 TO 25600.0		OVER 25600.0 TO 51200.0	
				OVER 51200.0 TO 102400.0		OVER 102400.0 TO 204800.0	
				OVER 204800.0 TO 409600.0		OVER 409600.0 TO 819200.0	
				OVER 819200.0 TO 1638400.0		OVER 1638400.0 TO 3276800.0	
				OVER 3276800.0 TO 6553600.0		OVER 6553600.0 TO 13107200.0	
				OVER 13107200.0 TO 26214400.0		OVER 26214400.0 TO 52428800.0	
				OVER 52428800.0 TO 104857600.0		OVER 104857600.0 TO 209715200.0	
				OVER 209715200.0 TO 419430400.0		OVER 419430400.0 TO 838860800.0	
				OVER 838860800.0 TO 1677721600.0		OVER 1677721600.0 TO 3355443200.0	
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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

B-TC-KD11-F-Ø-2
D-AH-M7264-Ø-5
B-PL-M7264-Ø-Ø
D-CS-M7264-Ø-1
A-PL-KD11-F-Ø
A-PL-KD11-F-1

[illegible]

KDII-F

Field Maintenance Print Set

Digital Equipment Corporation

MP00049

EN-01124-16-N676-(327)

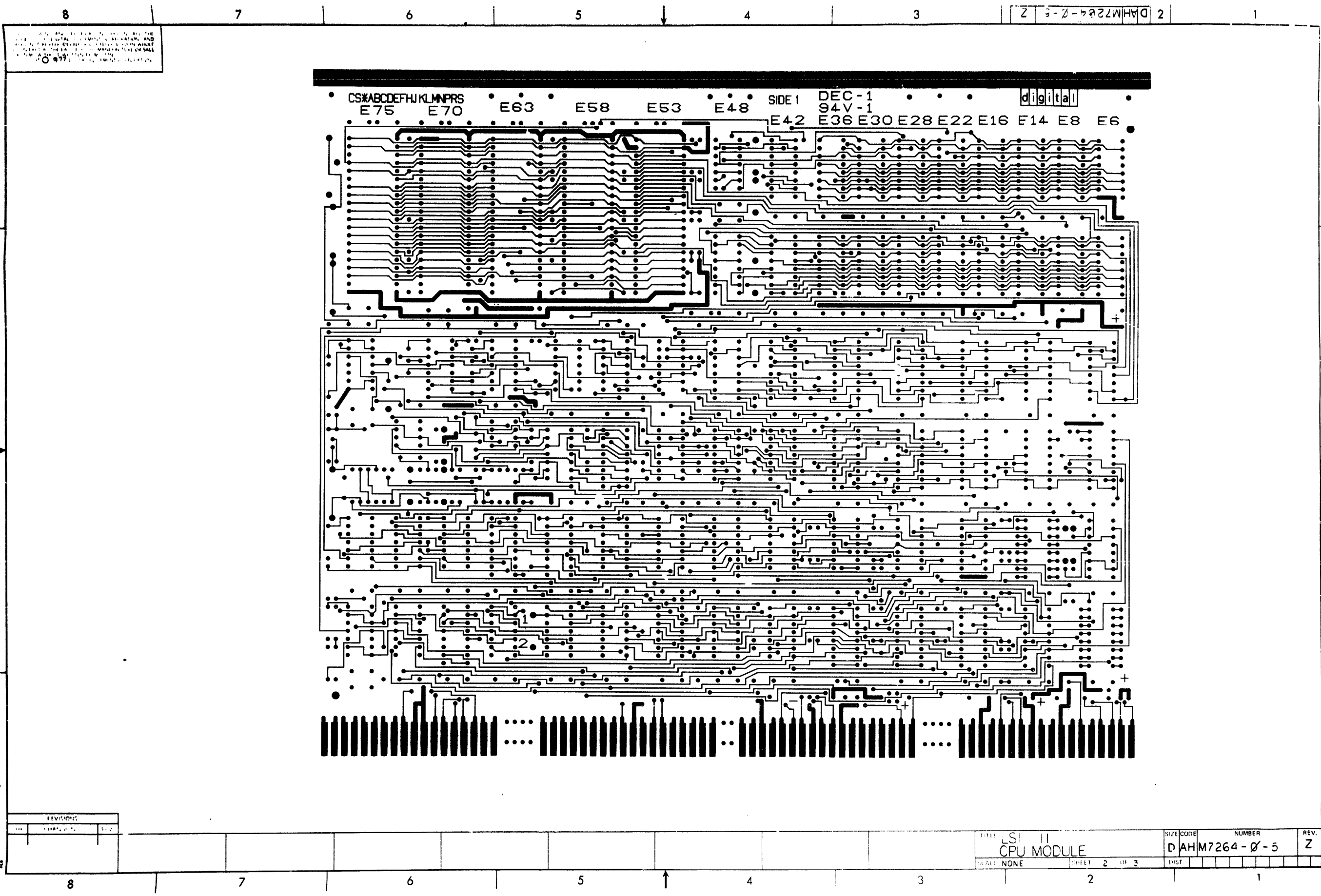
REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	digital												
DATE	CHG. NO.	REV.		PDP11	L. HEVESH		TITLE:	PROC /4K RAM MEMORY											
5 - 76	ORIGINATED	*																	
1-78	KDIF-7	A																	
					CHK'D	DATE													
					PROJ. ENG.	DATE													
					FIELD SERV.	DATE													
				SHEET I OF 1															

1. a

Le

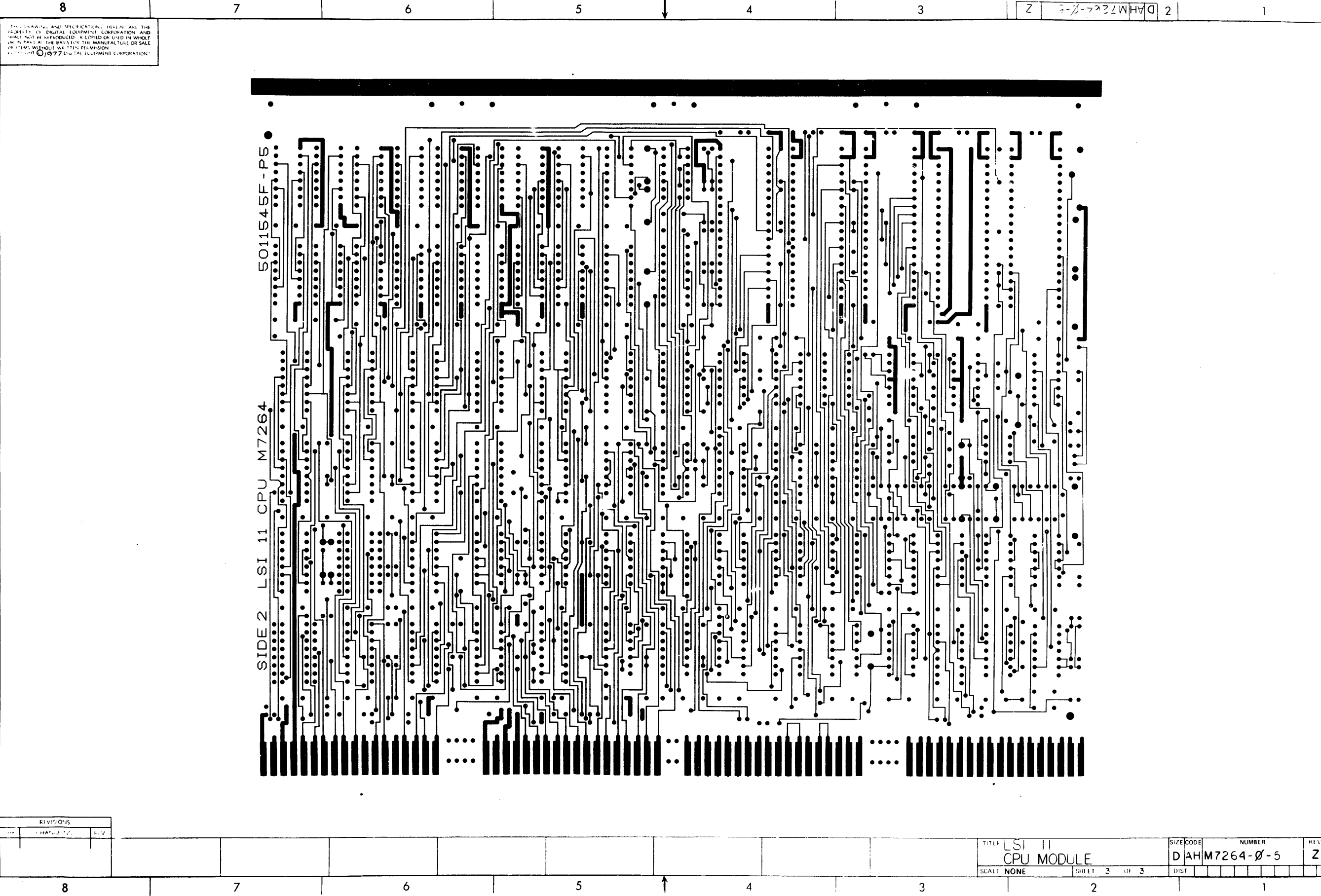
digital									
TITLE DRILL AND ETCH DRAWING									
SIZE CODE		NUMBER				REV			
D AH		M7264-0-5				Z			
ETCH REV. F									

1 MS# N/A



DIVISIONS	
...	...

TITLE	LSI II	SIZE CODE	NUMBER	REV.
CPU MODULE	DAHM7264-Ø-5			Z
SCALE	NONE	SHEET	2 OF 3	
		DIST		



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REVISIONS		
REV.	DATE	BY
1		

TITLE		SIZE	CODE	NUMBER		REV.
LSI 11 CPU MODULE				DAH M7264-Ø-5		Z
SCALE		NONE		SHEET 3 OF 3		

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES: M7264-AA = M7264 or M7264-AB, or -CB, or -DB, or -EB, or -FB, or -HB, or -JB					
MADE BY . D. ZWICKER DATE 22-DEC-77		CHECKED S. KITTLE DATE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB		M7264-FB	M7264-HB	M7264-JB		
ENG CHAO S. CHI DATE 22-DEC-77		PROD CHAO S. CHI DATE 22-DEC-77		ISSUED SECTION 1															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF DESIGNATION															
1	K-CO-M7264-Ø-4		X-Y COORDINATING HOLE LOCATION	REF	REF										REF				
2	D-AH-M7264-Ø-5		ASSY/DRILLING HOLE LAYOUT	REF	REF										REF				
3	B-MH-M7264-Ø-6		MODULE ECO HISTORY	REF	REF										REF				
4	D-CS-M7264-Ø-1		CIRCUIT SCHEMATIC	REF	REF										REF				
5		5011545	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1			
6		1213113-01	HANDLE (SEE NOTE 9)	1	1	1	1	1	1	1	1	1	1	1	1	1			
7		9009185	JUMPER INSULATED	-	1	1	-	-	-	-	-	-	-	-	-	-			
8		9009185	JUMPER INSULATED	2	-	-	2	2	2	2	2	2	2	2	2	2			
9		9009149-01	PIN STAKING	18	-	-	18	18	18	18	18	18	18	18	18	18			
10		9009149-01	PIN STAKING	-	10	10	-	-	-	-	-	-	-	-	-	-			
11		1212385-01	SOCKET, 40 PIN	5	5	5	5	5	5	5	5	5	5	5	5	5			
12		9105740-55	WIRE, SOLID, INS., 30 AWG	-	1	1	-	-	-	-	-	-	-	-	-	-			
13		9105740-55	WIRE, SOLID, INS., 30 AWG	2	-	-	2	2	2	2	2	2	2	2	2	2			
14		9000024-01	EYELET GS4-7	8	8	8	8	8	8	8	8	8	8	8	8	8			
15		1002087	CAPACITOR, 12pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1			
16		1000014	CAPACITOR, 68pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1			
17		1012121	CAPACITOR, 220pf, 100V, 1%	1	-	-	1	1	1	1	-	-	-	-	-	-			
18		1012121	CAPACITOR, 220pf, 100V, 1%	-	-	-	-	-	-	-	2	2	2	2	-	-			
19		1000026	CAPACITOR, 680pf, 100V, 5%	1	-	-	1	1	1	1	-	-	-	-	-	-			
20		1002424	CAPACITOR, 1200pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1			
E.C.O. NO. 00019																			
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				SHEET 1 OF 6				INSERTION PARTS LIST DATA BASE REV											

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:			
MADE BY D. ZWICKER DATE 22-DEC-77		CHECKED S. KITTLE DATE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB		M7264-JB		
ENG CHAO S. CHI DATE 22-DEC-77		PROD CHAO S. CHI DATE 22-DEC-77		ISSUED SECTION 1															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION		
21		1001610	CAPACITOR, .01uf, 50V 10%	57	-	-	57	57	57	57	57	57	57	57	57		C1-C4, C9-C12, C17-C20, C23-C26,C31-C34, C37-C52, C54-C57, C59-C62, C64, C65,C68, C71, C72, C76, C77,C80,C96,C97,C99,C106		
22		1001610	CAPACITOR, .01uf, 50V, 10%	-	52	52	-	-	-	-	-	-	-	-	-		C1-C4, C9-C12, C17-C20, C23-C26,C31-C34, C37, C38, C39, C43-C52, C54-C57,C59-C62, C64, C65, C68, C69, C71, C72, C77, C80, C96, C97, C106		
23		1010031-04	CAPACITOR, .33uf,50V,10%,POLYCARB	1	1	1	1	1	1	1	1	1	1	1	1		C101		
24		1010279	CAPACITOR, .47uf, 25V, 20%	39	-	-	39	39	39	39	39	39	39	39	39		C5-C8, C13-C16, C21, C22, C27-C30, C35, C36, C53, C58, C63, C66, C67, C70, C73-C75, C78, C79, C81-C85,C90-C95,C98		
25		1010279	CAPACITOR, .47uf, 25V, 20%	-	23	23	-	-	-	-	-	-	-	-	-		C53, C58, C63, C66, C67, C70, C73, C74, C75, C78, C79, C81-C85, C90-C95, C98		
26		1004812	CAPACITOR, 15uf, 20V, 10%	5	-	-	5	5	5	5	5	5	5	5	5		C86-C89, C105		
27		1004812	CAPACITOR, 10uf, 20V, 10%	-	4	4	-	-	-	-	-	-	-	-	-		C86-C89		
28																			
29		1311003-02	RESISTOR, NTWK, 14-330, 14-680	2	2	2	2	2	2	2	2	2	2	2	2		E9, E25		
30		1301317	RESISTOR, 10 ohm, 1/4W, 5%	2	-	-	2	2	2	2	-	-	-	-	-		R11, R12		
31		1301969	RESISTOR, 22 ohm, 1/4W, 5%	-	-	-	-	-	-	-	2	2	2	2			R11, R12		
32		1301969	RESISTOR, 22 ohm, 1/4W, 5%	3	3	3	3	3	3	3	3	3	3	3	3		R42-R45		
33		1301522	RESISTOR, 27 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	1		R44		
34		1300197	RESISTOR, 33 ohm, 1/4W, 5%	4	4	4	4	4	4	4	4	4	4	4	4		R35, R62, R64, R65		
35		1305121	RESISTOR, 38.3 ohm, RN55, 1%	1	-	-	1	1	1	1	1	1	1	1	1		R9		
36		1309995	RESISTOR, 56 ohm, 1/2W, 5%	3	3	3	3	3	3	3	3	3	3	3	3		R13, R16, R50		
E.C.O. NO.																			
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								SHEET 2 OF 6				INSERTION PARTS LIST DATA BASE REV							

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION											NOTES:							
MADE BY DATE		D. ZWICKER 22-DEC-77		CHECKED DATE		S. KITTLE 22-DEC-77		SECTION 1														
ENG DATE		CHAO S. CHI 22-DEC-77		PROD DATE		CHAO S. CHI 22-DEC-77		ISSUED SECTION 1														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB	REF DESIGNATION							
37		1300229	RESISTOR, 100 ohm, 1/4W, 5%	2	2	2	2	2	2	2	2	2	2	2	R36, R61							
38		1303038	RESISTOR, 133 ohm, RN55, 1%	2	-	-	2	2	2	2	2	2	2	2	R8, R1Ø							
39		1300250	RESISTOR, 150 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	R21							
40		1309787	RESISTOR, 249 ohm, RN55, 1%	-	-	-	-	-	-	-	1	1	1	1	R47							
41		1301972	RESISTOR, 270 ohm, 1/4W, 5%	1	-	-	1	1	1	1	1	1	1	1	R54							
42		1300295	RESISTOR, 330 ohm, 1/4W, 5%	13	13	13	13	13	13	13	13	13	13	13	R2, R4, R28, R3Ø, R32, R37, R49, R58, R66, R68, R7Ø, R72, R77							
43		1300316	RESISTOR, 470 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	R34							
44		1301424	RESISTOR, 680 ohm, 1/4W, 5%	-	15	15	-	-	-	-	-	-	-	-	R3, R5, R2Ø, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76							
45		1301424	RESISTOR, 680 ohm, 1/4W, 5%	17	-	-	17	17	17	17	17	17	17	17	R3, R5, R6, R2Ø, R23, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76							
46		1302685	RESISTOR, 909 ohm, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-	R47							
47		1301320	RESISTOR, 1.2K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-	R17							
48		1309295	RESISTOR, 1.8K, RN55, .1%	-	-	-	-	-	-	-	1	1	1	1	R46							
49		1302388	RESISTOR, 2K, 1/4W, 5%	12	12	12	12	12	12	12	12	12	12	12	R1, R18, R19, R22, R38-R41, R48, R56, R74, R75							
50		1304854	RESISTOR, 5.11K, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-	R46							
51		1301423	RESISTOR, 6.8K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-	R7							
52																						
53		1309150-07	POT, 2K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1	R15							
54		1309143-09	POT, 5K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1	R14							
E.C.O. NO.																						
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								SHEET 3 OF 6				INSERTION PARTS LIST DATA BASE REV										

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:	
MADE BY D. ZWICKER DATE 22-DEC-77		CHECKED S. KITTLE DATE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB		M7264-JB
ENG CHAO S. CHI DATE 22-DEC-77		PROD CHAO S. CHI DATE 22-DEC-77		ISSUED SECTION 1													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION
55																	
56																	
57		1100122	DIODE, IN748A, 3.9V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1	D5
58		1100114	DIODE, 664	20	20	20	20	20	20	20	20	20	20	20	20	20	D1, D3, D4, D7, D1Ø-D21, D23-D26
59		1110994	DIODE, IN751A, 5.1V, 5%	3	-	-	3	3	3	3	3	3	3	3	3	3	D2, D6, D9
60		1110994	DIODE, IN751A, 5.1V, 5%	-	1	1	-	-	-	-	-	-	-	-	-	-	D6
61																	
62		1512971	TRANSISTOR, PNP, 4260	4	4	4	4	4	4	4	4	4	4	4	4	4	Q1-Q4
63																	
64		1905575	I.C. DEC 74ØØ	3	3	3	3	3	3	3	3	3	3	3	3	3	E38, E45, E72
65		1910532	I.C. DEC 74SØØ	1	1	1	1	1	1	1	1	1	1	1	1	1	E24
66		1909686	I.C. DEC 74Ø4	1	1	1	1	1	1	1	1	1	1	1	1	1	E69
67		1910534	I.C. DEC 74SØ4	3	3	3	3	3	3	3	3	3	3	3	3	3	E37, E59, E61
68		1910535	I.C. DEC 74SØ5	1	1	1	1	1	1	1	1	1	1	1	1	1	E51
69		1010536	I.C. DEC 74S1Ø	-	2	2	-	-	-	-	-	-	-	-	-	-	E55, E62
70		1910536	I.C. DEC 74S1Ø	3	-	-	3	3	3	3	3	3	3	3	3	3	E48, E55, E62
71		1910537	I.C. DEC 74S11	1	1	1	1	1	1	1	1	1	1	1	1	1	E32
72		1912811	I.C. DEC 74LS21	1	1	1	1	1	1	1	1	1	1	1	1	1	E52
73		1910046	I.C. DEC 7442	1	1	1	1	1	1	1	1	1	1	1	1	1	E68
74		1905547	I.C. DEC 7474	5	5	5	5	5	5	5	5	5	5	5	5	5	E43, E44, E49, E64, E71
E.C.O. NO.																	
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								SHEET 4 OF 6				INSERTION PARTS LIST DATA BASE REV					

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NOTES:

- NOTES:
- ADJUST R14 SO THAT THE FREQUENCY MEASURED AT E57 PIN 6 IS 2.5 MHZ MIN TO 2.631 MHZ MAX. THE MODULE MAY BE OPERATED AT OTHER FREQUENCIES FOR TEST PURPOSE ONLY. SEE SHEET (K-9) MANUFACTURING ADJUSTS TO 2.591 MIN TO 2.631 MAX.
 - ADJUST R15 SO THAT THE REFRESH FREQUENCY MEASURED AT E78 PIN 8 IS 825 KHZ $\pm$ 20 KHZ. SEE SHEET (K-9).
 - TIME DELAY FROM FALLING EDGE ON E51 PIN 9 TO FALLING EDGE ON E78 PIN 4 SHOULD BE 110 TO 140 NS. R7 MAY BE REMOVED TO INCREASE THE DELAY SLIGHTLY IF LESS THAN 110 NS IS MEASURED. SEE SHEET (K-5).
 - JUMPER FUNCTIONS AND CONFIGURATION ARE AS FOLLOWS:

JUMPER SELECT FEATURES				
JUMPER	SELECTION WHEN INSTALLED	OPT:ON	SHIPPING STATUS	
			M7264 (REV E)	-YA
W1	RESIDENT MEMORY BANK 1	C.O.	R	R
W2	RESIDENT MEMORY BANK 2	C.O.	I	R
W3	DISABLE EVENT LINE	C.O.	R	R
W4	DISABLE MEMORY REFRESH	C.O.	R	I
W5	POWER UP MODE SELECT	C.O.	R	R
W6	POWER UP MODE SELECT	C.O.	R	R
W7	BIASING VOLTAGE VDATA = VROM	F.O.	I	I
W8	BIASING VOLTAGE VCTL = VROM	F.O.	I	I
W9	DISABLE REPLY FROM RESIDENT MEMORY	F.O.	R	I
W10	DISABLE REPLY DURING REFRESH	C.O.	R	R
W11	ENABLE ON BOARD MEMORY SELECT	C.O.	I	R

* INSTALLED IF RESIDENT RAM IS NOT THE SLOWEST REPLY IN THE SYSTEM.

POWER-UP MODES		
MODE	JUMPERS	MODE SELECT
0	R R	PC AT 24 AND PS AT 28, OR HALT MODE
1	R I	ODT MICROCODE
2	I R	PC AT 173000 FOR USER BOOT STRAP
3	I I	SPECIAL PROCESSOR MICROCODE (not implemented)

I: INSTALLED
R: REMOVED
C.O.: CUSTOMER OPTION
F.O.: FACTORY OPTION

4K RAM	16	9	8
DEC MH0026	3		
DEC 75322	7	14	
DEC 7497	8	16	
DEC 8641	8	16	
DEC 74S257	8	16	
DEC 74S174	8	16	
DEC 74S140	7	14	
DEC 74S139	8	16	
DEC 7475	12	5	
DEC 74S74	7	14	
DEC 7474	7	14	
DEC 7442	8	16	
DEC 74S11	7	14	
DEC 74S10	7	14	
DEC 8837	8	16	
DEC 74S05	7	14	
DEC 74S04	7	14	
DEC 74S00	7	14	
DEC 7400	7	14	

IC TYPE: GND +5V +12V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE

IC PIN LOCATIONS

5. COMPONENTS ARE NOT INSTALLED (RESERVED OPTION) UNLESS SPECIFICALLY INSTRUCTED.
6. DELETED FOR M7264-YA VERSION



8. SIGNAL DESIGNATION

SIGNAL NAME

SIGNAL ORIGIN (PULSE) IDENTIFIER

ALTERNATE PARTS CHART		
ITEM #	PREFERRED PART	ALTERNATE PART
21, 22	1213115-01	M7264-00 AND -01
9, 10	1009149-00	1009149-01

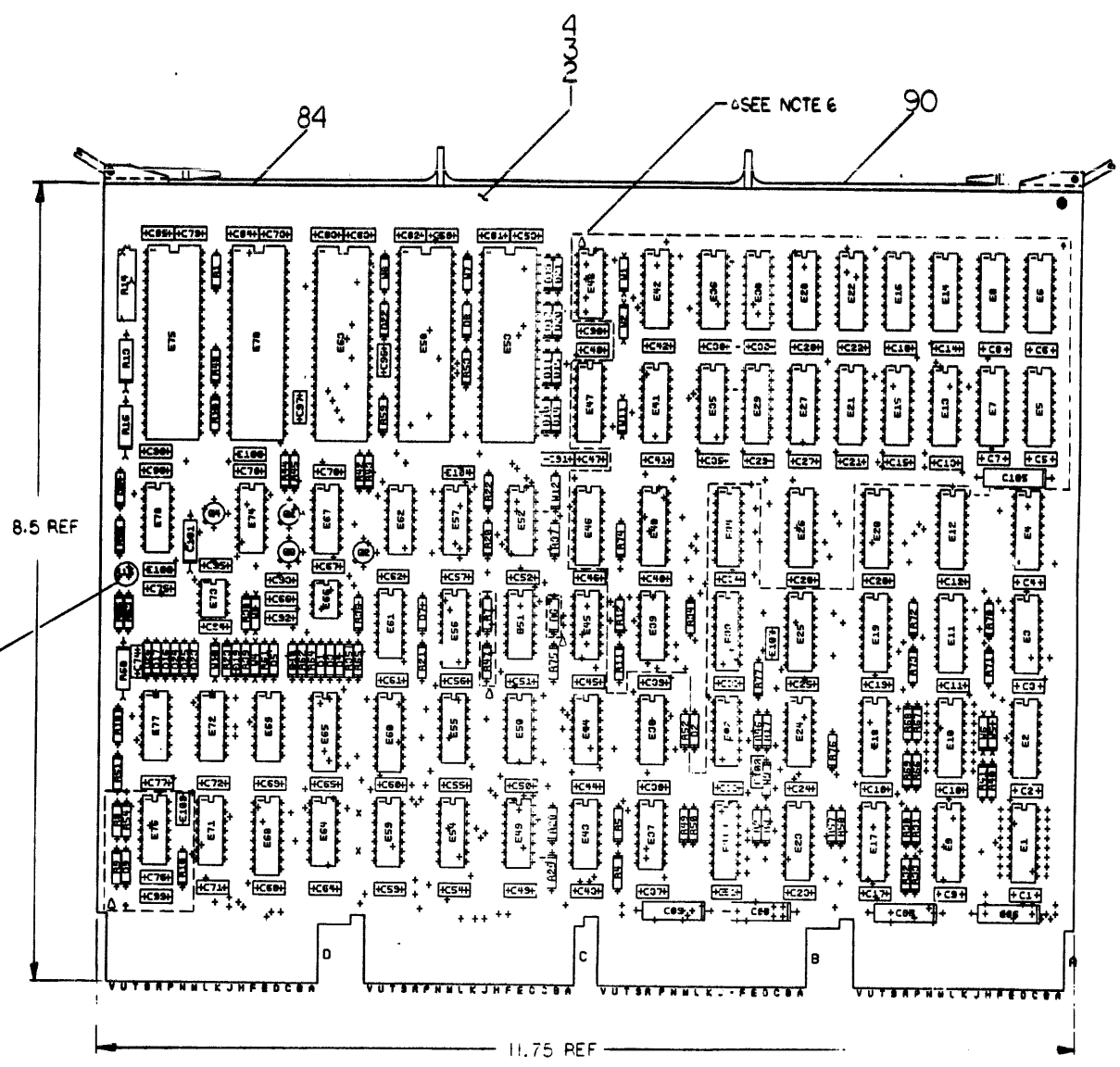
10. THE 2300286 IS AN ALLOWABLE SUBSTITUTION FOR THE 2300386 ON THE M7264-BB AND M7264-YB. THE 2300386 IS PREFERRED.

VARIATION CHART	
VARIATION	DESCRIPTION
M7264-AA	M7264 OR M7264-A8, C8, D8, E8, F8, H8, J8
M7264	PROCESSOR W MOSTEK 4096
M7264-A8	PROCESSOR W INTEL 2104
M7264-B8	PROCESSOR W MOSTEK 4096 AND HYBRID MICROM
M7264-C8	PROCESSOR W FUJITSU 8224
M7264-D8	PROCESSOR W INTEL 2104A
M7264-E8	PROCESSOR W MOSTEK 4027
M7264-F8	PROCESSOR W DEC 4027
M7264-H8	PROCESSOR W MOTOROLA 4027
M7264-J8	PROCESSOR W FUJITSU 8227
M7264-YA	PROCESSOR W NO MOS RAM
M7264-YB	PROCESSOR W NO MOS RAM AND HYBRID MICROM

8.5 REF

SEE NOTE 2

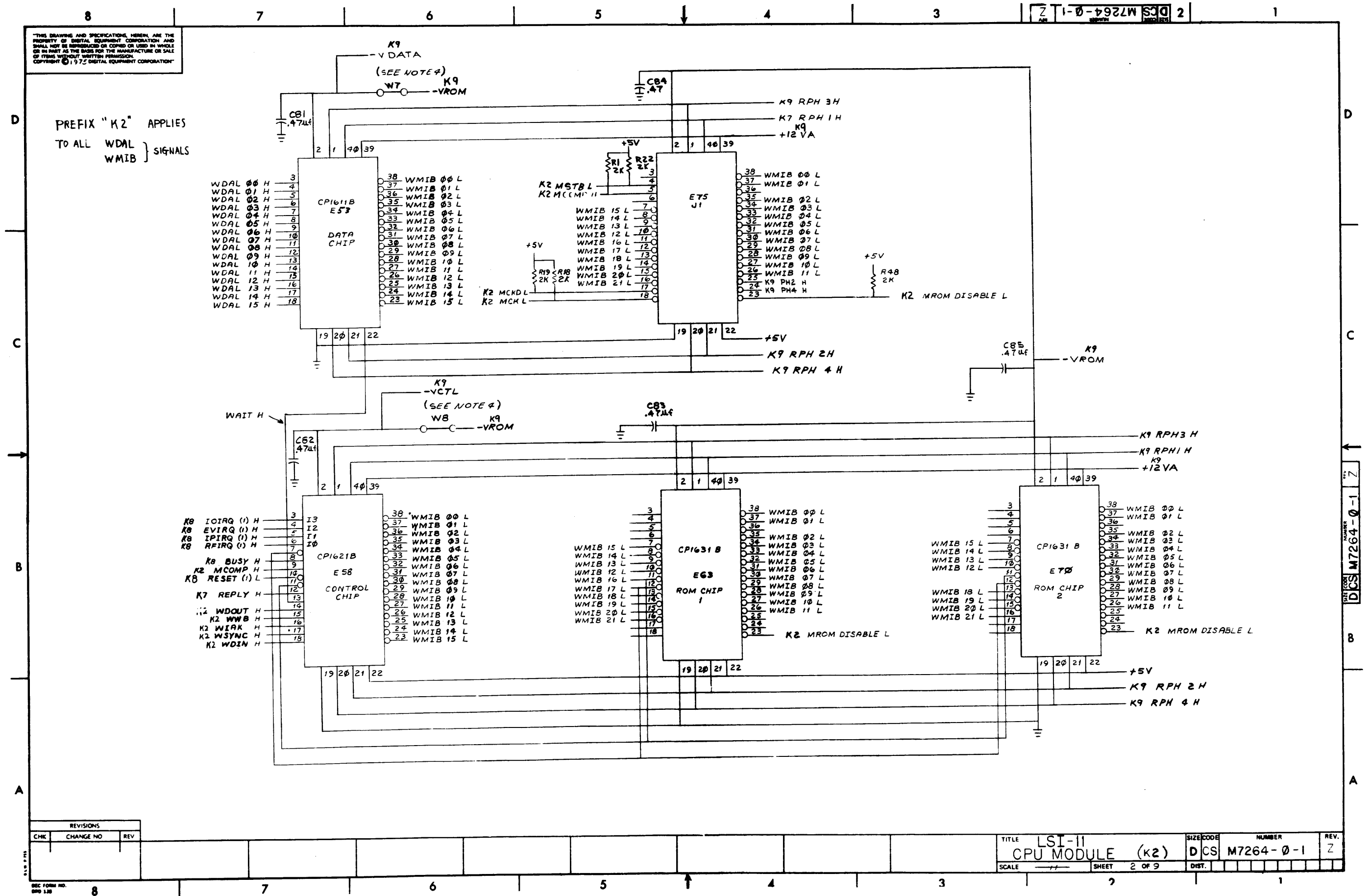
11.75 REF



NOTE: FOR PARTS LIST, SEE 8-PL-M7264-0-0

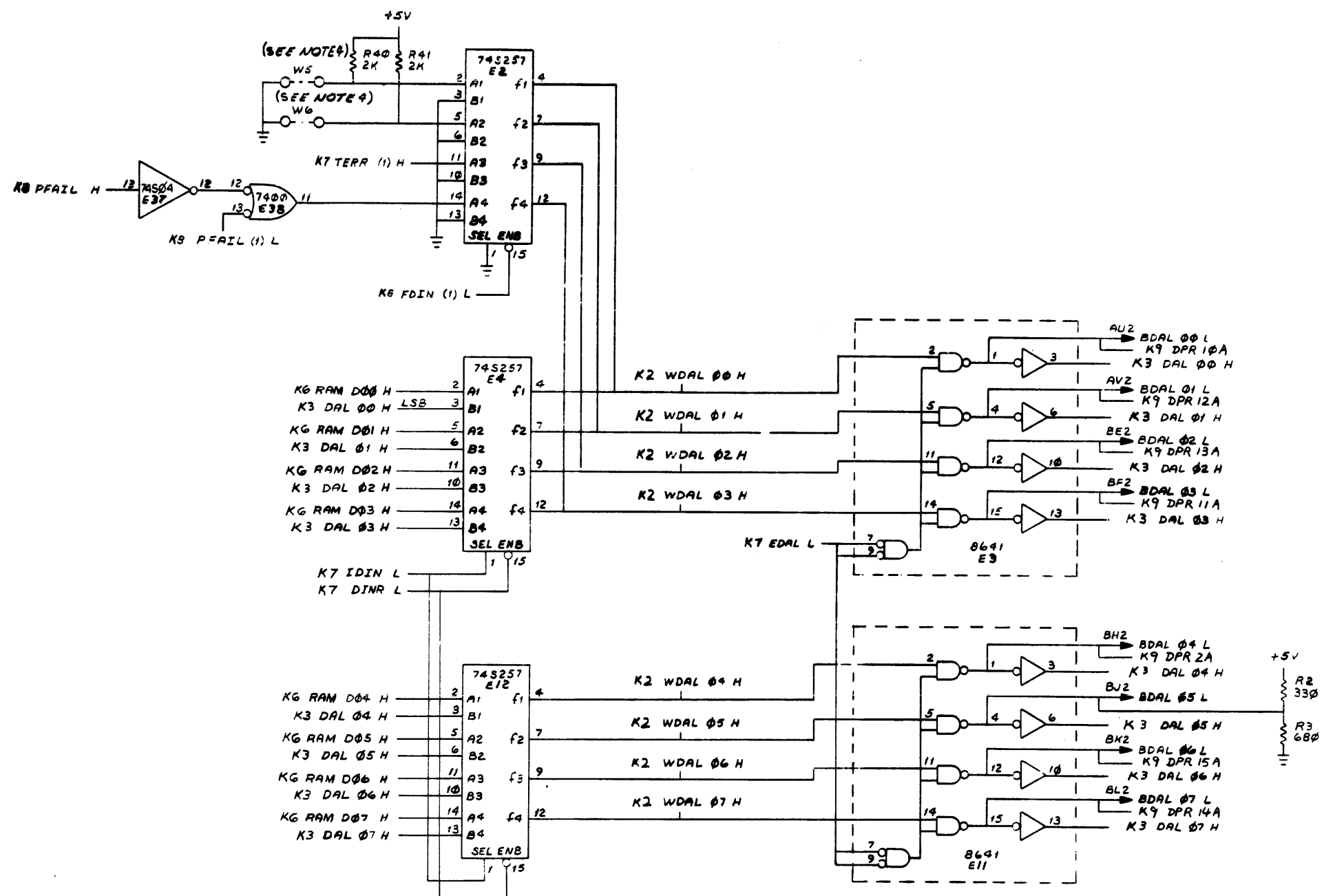
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
ETCH BOARD REV.				
PARTS LIST				
DRN. DATE				
CHK'D. DATE				
ENG. DATE				
PROJ. ENG. DATE				
PROD. DATE				
NEXT HIGHER ASSY				
TITLE				
LSI-II CPU MODULE				
SCALE				
DCS M7264-0-1				
SHEET 1 OF 9				

SEMICONDUCTOR CONVERSION CHART



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DCS M7264-0-1 2

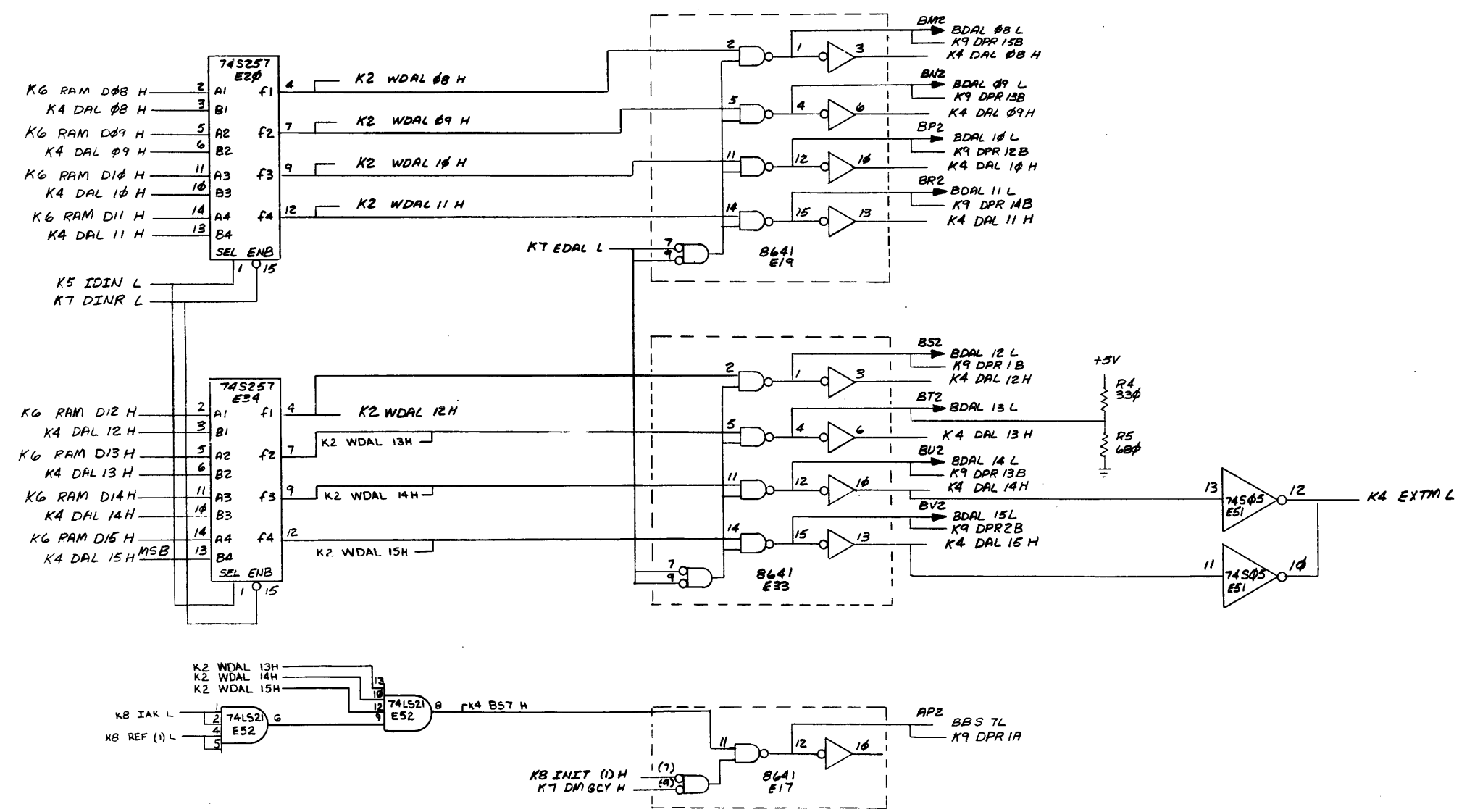


REVISIONS		
CHK	CHANGE NO	REV

TITLE LSI-11 CPU MODULE (K3)						SIZE CODE DCS	NUMBER M7264-0-1	REV 2
SCALE 1/1						SHEET 3 OF 9	DIST.	

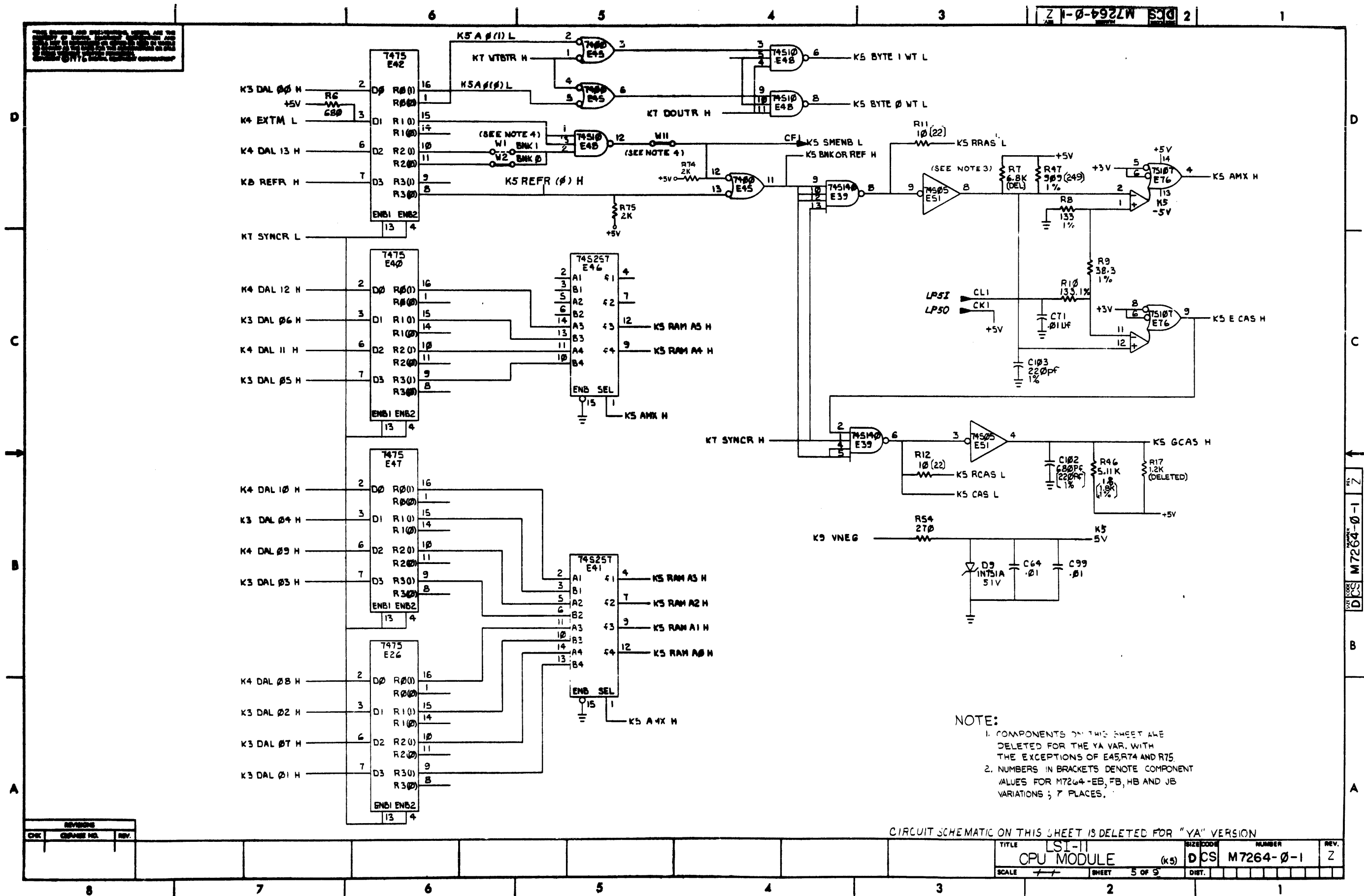
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DCS M7264-0-1 2

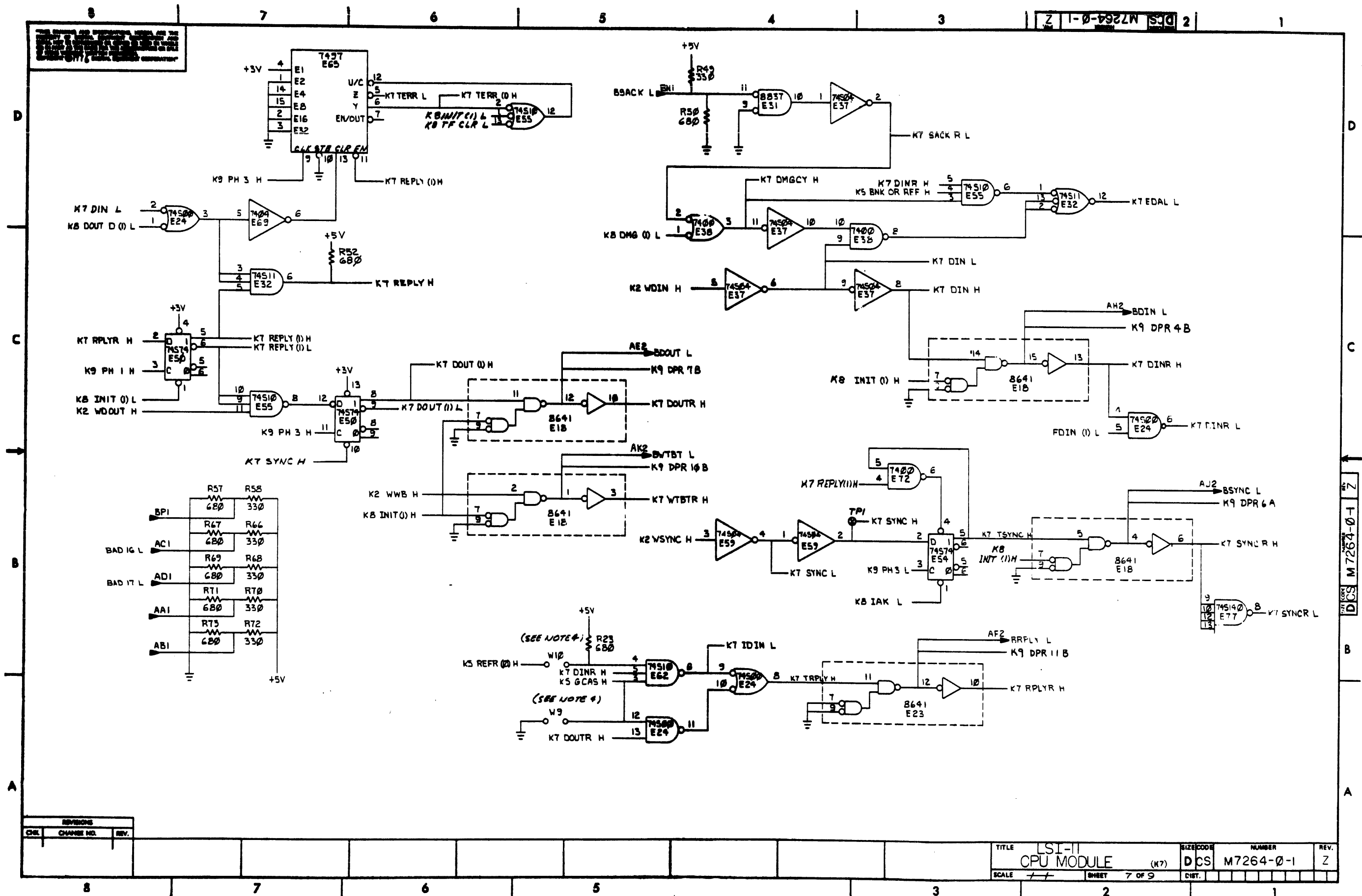


REVISIONS		
CHK	CHANGE NO.	REV.

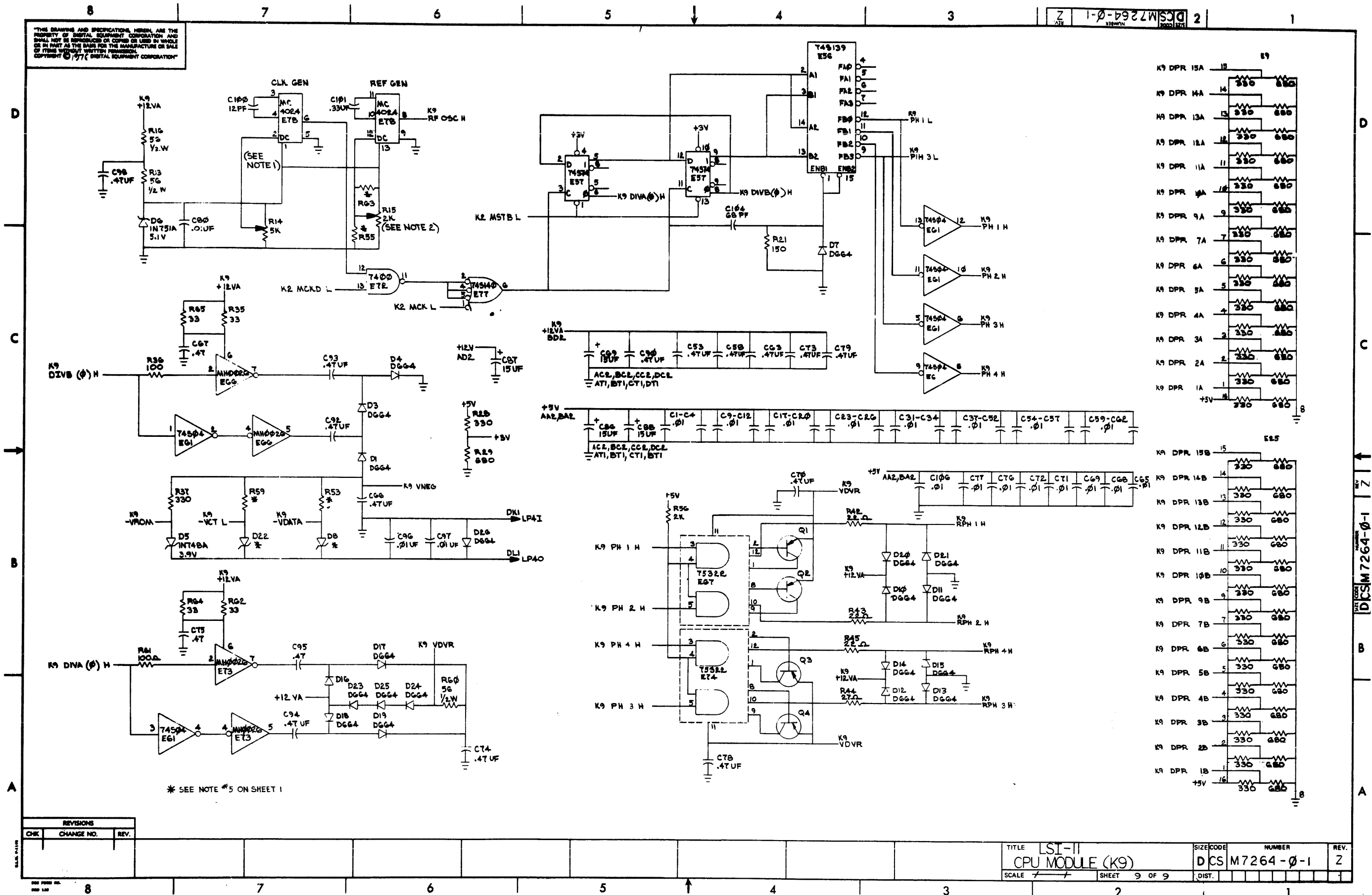
TITLE		LSI-II
CPU MODULE (K4)		
SIZE CODE	NUMBER	REV.
DCS	M7264-0-1	Z
SCALE	SHEET	
1/1	4 OF 9	







REVISIONS		
CHK	CHANGE NO.	REV.



PARTS LIST

SECTION
I

ISSUED SECT.	1
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[illegible]

REV. A	ECO NO RDI-F 00003
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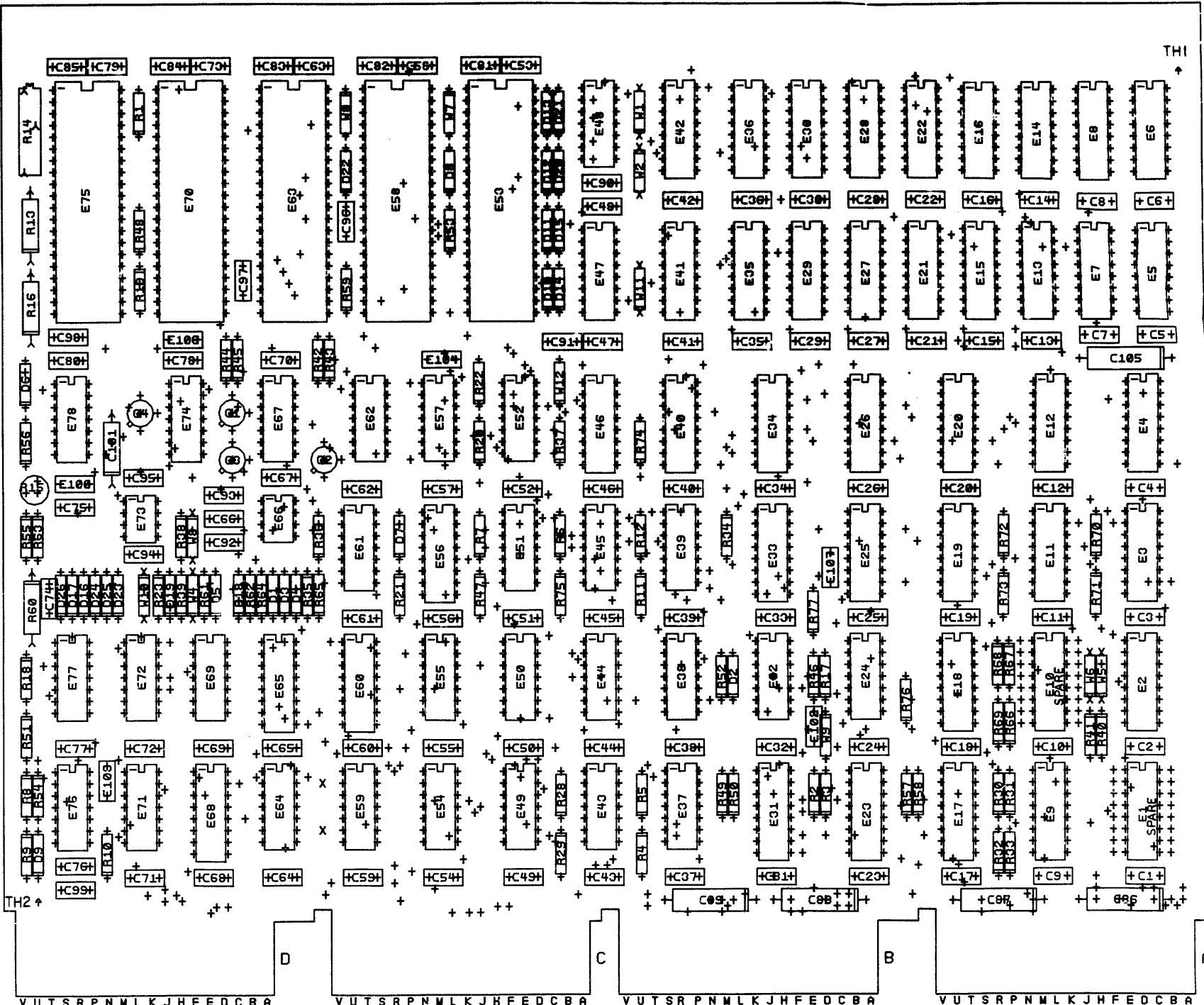
B-TC-KD11-H-2
D-AH-M7264-YA-5
B-PL-M7264-YA-Ø
~~D-CS-M7264-YA-1~~
A-PL-KD11-H-Ø
A-PL-KD11-H-1

KD11-H
Field Maintenance
Print Set

Digital Equipment Corporation
PRINT SET ORDER NO
MP00050

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- NOTES:
1. E1 AND E10 ARE SPARE I.C. LOCATIONS.
 2. W1, W3, W4, W5, W6, W9, W10 AND W12 ARE OPTIONAL JUMPERS.
 3. R53, R55, R59 AND R63 ARE OPTIONAL RESISTORS.
 4. D8 AND D22 ARE OPTIONAL DIODES.

CHK	CHANGE NO	REV	DATE	BY
23	000017	Y	11-9-77	D. BENNETT
24	000018	Y	11-9-77	D. BENNETT
25	000019	Y	11-9-77	D. BENNETT
26	000020	Y	11-9-77	D. BENNETT

HOLE DATA										
SYMBOL	-	A	X	+	Z	H	A	+	+	*
FIN HOLE SIZE	.038	.042	.032	.156						
PLATED	X	X	X	X						
NON PLATED			X							
QTY.	2243	11	18	2						
○-OFF GRD HLE										
DRILL SIZE										

BOARD FABRICATION INFORMATION	
PANEL SIZE	8.5 X QUAD
PANEL DATA DWG.#	D-MD-7605819-0-0
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	FOUR
COPPER THICKNESS	ONE OUNCE
PTH. YES PRINT AND ETCH NO	
MODULE INSERTED 100 TIMES OR MORE? NO	

SIGNATURES		DATE
DRN. JOHN LEPKOWSKI		6-6-77
CHK'D. <i>[Signature]</i>		11-9-77
ENC. <i>[Signature]</i>		11-9-77
PROJ. ENG. <i>[Signature]</i>		11-9-77
PROD. <i>[Signature]</i>		11-9-77
SCALE 2 TO 1		
SHT. 1 OF 3		
NEXT HIGHER ASSY.		

digital		TITLE DRILL AND ETCH DRAWING	
SIZE CODE	NUMBER	REV	
D	AH M7264-0-5	Z	
ETCH REV. F			

8

7

6

5

4

3

2

Z

DAHM7264-Ø-5

2

1

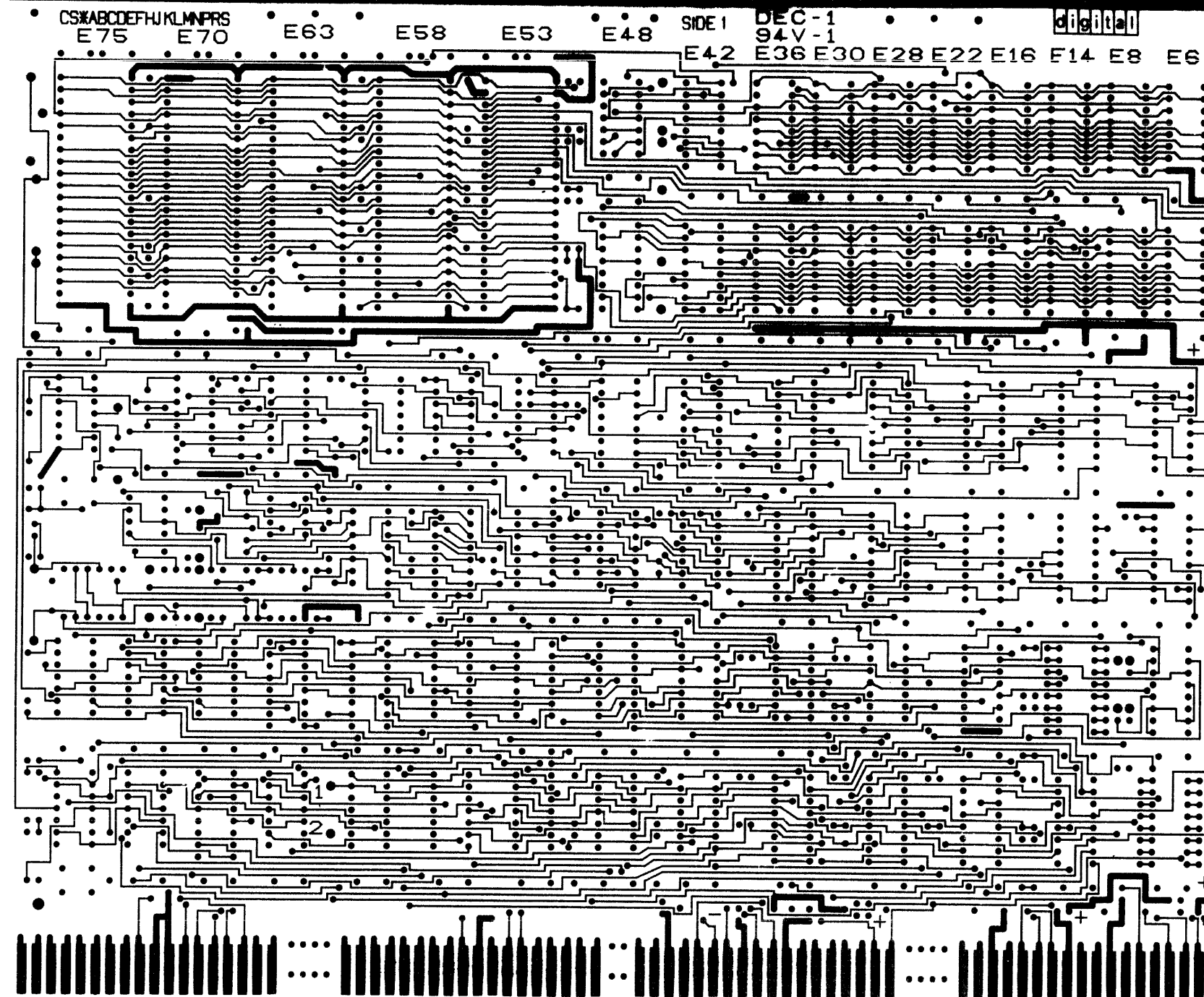
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D

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B

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R

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REVISIONS		
1	INITIALS	DATE

8

7

6

5

4

3

2

1

TITLE LSI II
CPU MODULE

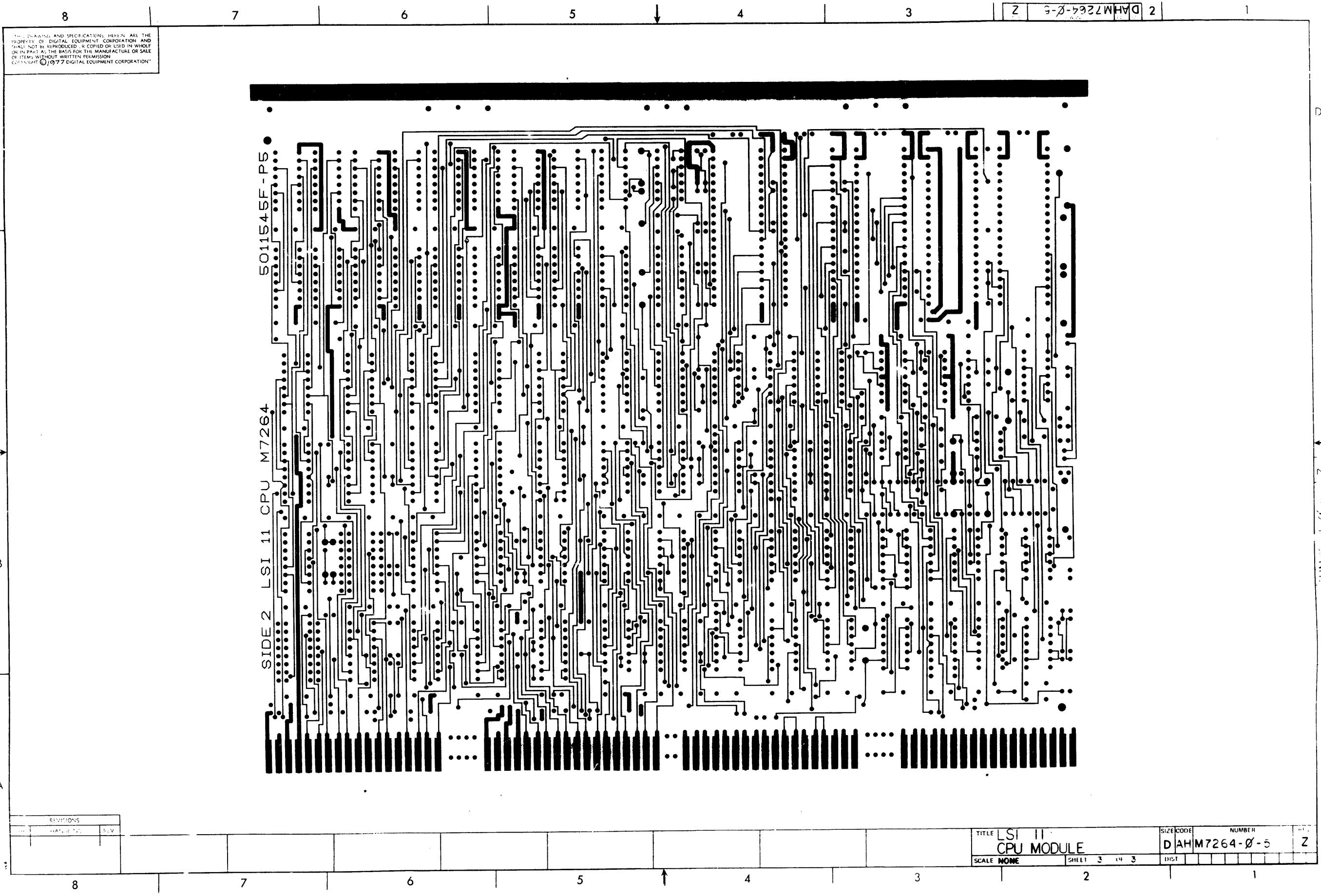
SCALE NONE

SHEET 2 OF 3

SIZE CODE
DAHM7264-Ø-5

NUMBER
DAHM7264-Ø-5

REV
Z



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REVISIONS		
REV	DATE	BY

TITLE		SIZE/CODE	NUMBER	REV
LSI 11 CPU MODULE			DAHM7264-Ø-5	Z
SCALE	NONE	SHEET	3 OF 3	DIST

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION											NOTES: M7264-AA = M7264 or M7264-AB, or -CB, or -DB, or -EB, or -FB, or -HB, or -JB		
MADE BY . D. ZWICKER DATE 22-DEC-77		CHECKED S. KITTLE DATE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB		M7264-HB	M7264-JB
ENG CHAO S. CHI DATE 22-DEC-77		PROD CHAO S. CHI DATE 22-DEC-77		ISSUED SECTION 1													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION													REF DESIGNATION	
1	K-CO-M7264-Ø-4		X-Y COORDINATING HOLE LOCATION	REF	▲										▼	REF	W9 W7, W8 W1-W6, W10, W11, TP1, TP2 W3-W6, TP1, TP2 E53, E58, E63, E7Ø, E75 W4 W2, W11 C1ØØ C1Ø4 C1Ø3 C1Ø2, C1Ø3 C1Ø2 C1Ø7
2	D-AH-M7264-Ø-5		ASSY/DRILLING HOLE LAYOUT	REF	▲										▼	REF	
3	B-MH-M7264-Ø-6		MODULE ECO HISTORY	REF	▲										▼	REF	
4	D-CS-M7264-Ø-1		CIRCUIT SCHEMATIC	REF	▲										▼	REF	
5		5011545	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	
6		1213113-01	HANDLE (SEE NOTE 9)	1	1	1	1	1	1	1	1	1	1	1	1	1	
7		9009185	JUMPER INSULATED	-	1	1	-	-	-	-	-	-	-	-	-	-	
8		9009185	JUMPER INSULATED	2	-	-	2	2	2	2	2	2	2	2	2	2	
9		9009149-01	PIN STAKING	18	-	-	18	18	18	18	18	18	18	18	18	18	
10		9009149-01	PIN STAKING	-	10	10	-	-	-	-	-	-	-	-	-	-	
11		1212385-01	SOCKET, 40 PIN	5	5	5	5	5	5	5	5	5	5	5	5	5	
12		9105740-55	WIRE, SOLID, INS., 30 AWG	-	1	1	-	-	-	-	-	-	-	-	-	-	
13		9105740-55	WIRE, SOLID, INS., 30 AWG	2	-	-	2	2	2	2	2	2	2	2	2	2	
14		9000024-01	EYELET GS4-7	8	8	8	8	8	8	8	8	8	8	8	8	8	
15		1002087	CAPACITOR, 12pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1	
16		1000014	CAPACITOR, 68pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1	
17		1012121	CAPACITOR, 220pf, 100V, 1%	1	-	-	1	1	1	1	-	-	-	-	-	-	
18		1012121	CAPACITOR, 220pf, 100V, 1%	-	-	-	-	-	-	-	-	2	2	2	2	2	
19		1000026	CAPACITOR, 680pf, 100V, 5%	1	-	-	1	1	1	1	-	-	-	-	-	-	
20		1002424	CAPACITOR, 1200pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1	
E.C.O. NO. 00019																	
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				LSI-11 CPU MODULE				D-AH-M7264-Ø-5				B	PL	M7264-Ø-Ø		Z	
								SHEET 1 OF 6				INSERTION PARTS LIST DATA BASE REV					

DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION										NOTES:							
MADE BY DATE		D. ZWICKER 22-DEC-77		CHECKED DATE		S. KITTLE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB			M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB
ENG DATE		CHAO S. CHI 22-DEC-77		PROD DATE		CHAO S. CHI 22-DEC-77		ISSUED SECTION 1														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION																		REF DESIGNATION	
21		1001610	CAPACITOR, .01uf, 50V 10%	57	-	-	57	57	57	57	57	57	57	57	57	57	57	57	57		C1-C4, C9-C12, C17-C20, C23-C26,C31-C34, C37-C52, C54-C57, C59-C62, C64, C65,C68, C71, C72, C76, C77,C80,C96,C97,C99,C106	
22		1001610	CAPACITOR, .01uf, 50V, 10%	-	52	52	-	-	-	-	-	-	-	-	-	-	-	-	-		C1-C4, C9-C12, C17-C20, C23-C26,C31-C34, C37, C38, C39, C43-C52, C54-C57,C59-C62, C64, C65, C68, C69, C71, C72, C77, C80, C96, C97, C106	
23		1010031-04	CAPACITOR, .33uf,50V,10%,POLYCARB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		C101	
24		1010279	CAPACITOR, .47uf, 25V, 20%	39	-	-	39	39	39	39	39	39	39	39	39	39	39	39	39		C5-C8, C13-C16, C21, C22, C27-C30, C35, C36, C53, C58, C63, C66, C67, C70, C73-C75, C78, C79, C81-C85,C90-C95,C98	
25		1010279	CAPACITOR, .47uf, 25V, 20%	-	23	23	-	-	-	-	-	-	-	-	-	-	-	-	-		C53, C58, C63, C66, C67, C70, C73, C74, C75, C78, C79, C81-C85, C90-C95, C98	
26		1004812	CAPACITOR, 15uf, 20V, 10%	5	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5		C86-C89, C105	
27		1004812	CAPACITOR, 10uf, 20V, 10%	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-		C86-C89	
28																						
29		1311003-02	RESISTOR, NTWK, 14-330, 14-680	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		E9, E25	
30		1301317	RESISTOR, 10 ohm, 1/4W, 5%	2	-	-	2	2	2	2	2	-	-	-	-	-	-	-	-		R11, R12	
31		1301969	RESISTOR, 22 ohm, 1/4W, 5%	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2		R11, R12	
32		1301969	RESISTOR, 22 ohm, 1/4W, 5%	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		R42-R45	
33		1301522	RESISTOR, 27 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		R44	
34		1300197	RESISTOR, 33 ohm, 1/4W, 5%	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		R35, R62, R64, R65	
35		1305121	RESISTOR, 38.3 ohm, RN55, 1%	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1		R9	
36		1309995	RESISTOR, 56 ohm, 1/2W, 5%	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		R13, R16, R50	
E.C.O. NO.																						
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										SHEET 2 OF 6					INSERTION PARTS LIST DATA BASE REV							

DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION												NOTES:
MADE BY DATE		CHECKED DATE		SECTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		
ENG DATE		PROD DATE		ISSUED SECTION													
D. ZWICKER 22-DEC-77		S. KITTLE 22-DEC-77		1													
CHAO S. CHI 22-DEC-77		CHAO S. CHI 22-DEC-77		1	REF DESIGNATION												
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														
37		1300229	RESISTOR, 100 ohm, 1/4W, 5%	2	2	2	2	2	2	2	2	2	2	2	2	R36, R61	
38		1303038	RESISTOR, 133 ohm, RN55, 1%	2	-	-	2	2	2	2	2	2	2	2	2	R8, R1Ø	
39		1300250	RESISTOR, 150 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	1	R21	
40		1309787	RESISTOR, 249 ohm, RN55, 1%	-	-	-	-	-	-	-	1	1	1	1	1	R47	
41		1301972	RESISTOR, 270 ohm, 1/4W, 5%	1	-	-	1	1	1	1	1	1	1	1	1	R54	
42		1300295	RESISTOR, 330 ohm, 1/4W, 5%	13	13	13	13	13	13	13	13	13	13	13	13	R2, R4, R28, R3Ø, R32, R37, R49, R58, R66, R68, R7Ø, R72, R77	
43		1300316	RESISTOR, 470 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	1	R34	
44		1301424	RESISTOR, 680 ohm, 1/4W, 5%	-	15	15	-	-	-	-	-	-	-	-	-	R3, R5, R2Ø, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76	
45		1301424	RESISTOR, 680 ohm, 1/4W, 5%	17	-	-	17	17	17	17	17	17	17	17	17	R3, R5, R6, R2Ø, R23, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76	
46		1302685	RESISTOR, 909 ohm, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-	-	R47	
47		1301320	RESISTOR, 1.2K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-	-	R17	
48		1309295	RESISTOR, 1.8K, RN55, .1%	-	-	-	-	-	-	-	1	1	1	1	1	R46	
49		1302388	RESISTOR, 2K, 1/4W, 5%	12	12	12	12	12	12	12	12	12	12	12	12	R1, R18, R19, R22, R38-R41, R48, R56, R74, R75	
50		1304854	RESISTOR, 5.11K, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-	-	R46	
51		1301423	RESISTOR, 6.8K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-	-	R7	
52																	
53		1309150-07	POT, 2K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1	1	R15	
54		1309143-09	POT, 5K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1	1	R14	
E.C.O. NO.																	
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										SHEET 3 OF 6		INSERTION PARTS LIST DATA BASE REV					

DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION											NOTES:			
MADE BY D. ZWICKER DATE 22-DEC-77		CHECKED S. KITTLE DATE 22-DEC-77		SECTION 1	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB				
ENG CHAO S. CHI DATE 22-DEC-77		PROD CHAO S. CHI DATE 22-DEC-77		ISSUED SECTION 1															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION		
55																			
56																			
57		1100122	DIODE, IN748A, 3.9V, 5%	1	1	1	1	1	1	1	1	1	1	1	1		D5		
58		1100114	DIODE, 664	20	20	20	20	20	20	20	20	20	20	20	20		D1, D3, D4, D7, D1Ø-D21, D23-D26		
59		1110994	DIODE, IN751A, 5.1V, 5%	3	-	-	3	3	3	3	3	3	3	3	3		D2, D6, D9		
60		1110994	DIODE, IN751A, 5.1V, 5%	-	1	1	-	-	-	-	-	-	-	-	-		D6		
61																			
62		1512971	TRANSISTOR, PNP, 4260	4	4	4	4	4	4	4	4	4	4	4	4		Q1-Q4		
63																			
64		1905575	I.C. DEC 74ØØ	3	3	3	3	3	3	3	3	3	3	3	3		E38, E45, E72		
65		1910532	I.C. DEC 74SØØ	1	1	1	1	1	1	1	1	1	1	1	1		E24		
66		1909686	I.C. DEC 74Ø4	1	1	1	1	1	1	1	1	1	1	1	1		E69		
67		1910534	I.C. DEC 74SØ4	3	3	3	3	3	3	3	3	3	3	3	3		E37, E59, E61		
68		1910535	I.C. DEC 74SØ5	1	1	1	1	1	1	1	1	1	1	1	1		E51		
69		1010536	I.C. DEC 74S1Ø	-	2	2	-	-	-	-	-	-	-	-	-		E55, E62		
70		1910536	I.C. DEC 74S1Ø	3	-	-	3	3	3	3	3	3	3	3	3		E48, E55, E62		
71		1910537	I.C. DEC 74S11	1	1	1	1	1	1	1	1	1	1	1	1		E32		
72		1912811	I.C. DEC 74LS21	1	1	1	1	1	1	1	1	1	1	1	1		E52		
73		1910046	I.C. DEC 7442	1	1	1	1	1	1	1	1	1	1	1	1		E68		
74		1905547	I.C. DEC 7474	5	5	5	5	5	5	5	5	5	5	5	5		E43, E44, E49, E64, E71		
E.C.O. NO.																			
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								SHEET 4 OF 6				INSERTION PARTS LIST DATA BASE REV							

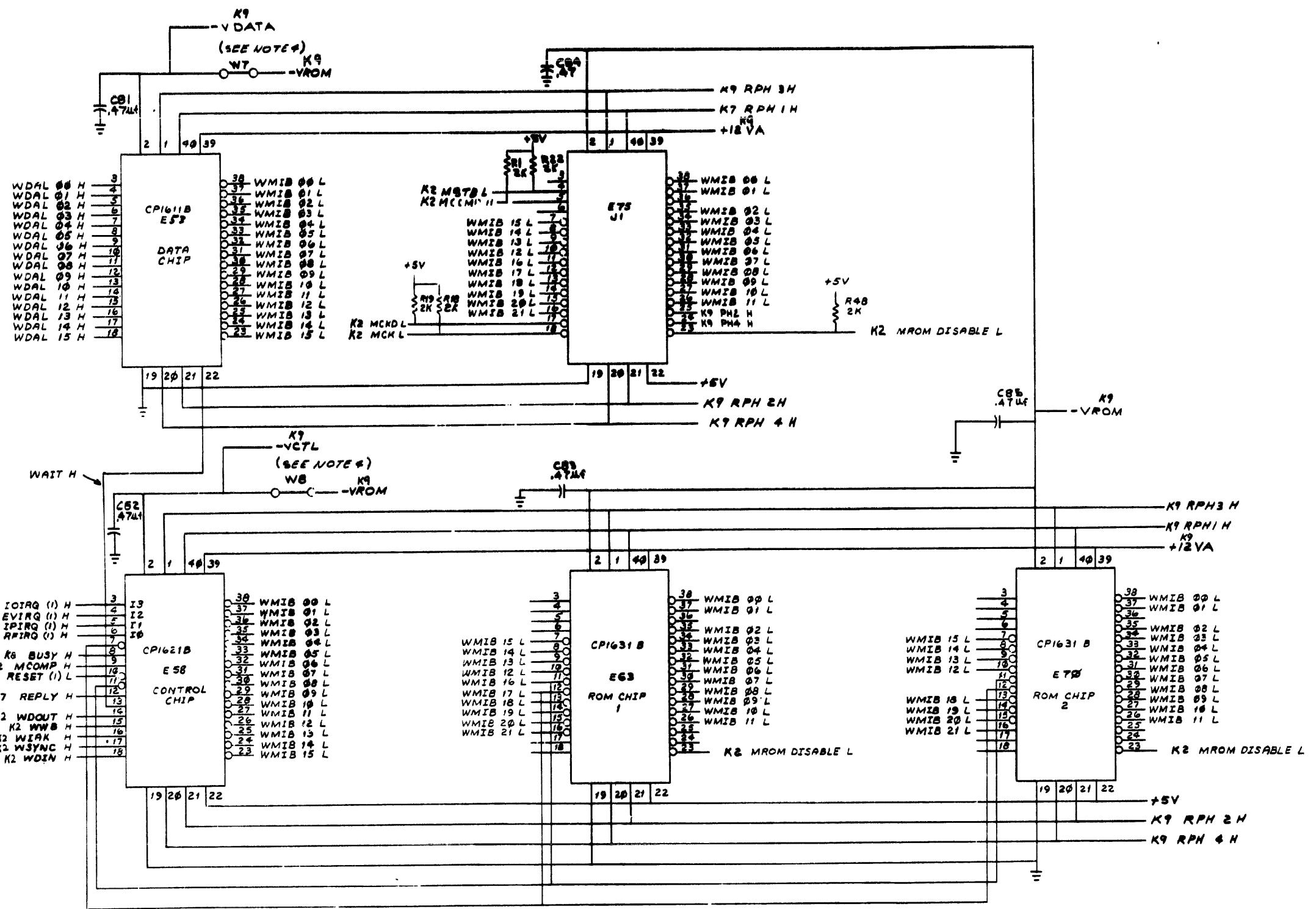
DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION										NOTES:	
MADE BY DATE		CHECKED DATE		SECTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB		M7264-JB
ENG DATE		PROD DATE		ISSUED SECTION												
D. ZWICKER 22-DEC-77		S. KITTLE 22-DEC-77		1											REF DESIGNATION	
CHAO S. CHI 22-DEC-77		CHAO S. CHI 22-DEC-77		1												
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION													
75		1910544	I.C. DEC 74S74	3	3	3	3	3	3	3	3	3	3	3	3	E5Ø, E54, E57
76		1909050	I.C. DEC 7475	4	-	-	4	4	4	4	4	4	4	4	4	E26, E4Ø, E42, E47
77		1911195	I.C. DEC 7497	1	1	1	1	1	1	1	1	1	1	1	1	E65
78		1911676	I.C. DEC 74S139	1	1	1	1	1	1	1	1	1	1	1	1	E56
79		1910546	I.C. DEC 74S14Ø	-	1	1	-	-	-	-	-	-	-	-	-	E77
80		1910546	I.C. DEC 74S14Ø	2	-	-	2	2	2	2	2	2	2	2	2	E39, E77
81		1910550	I.C. DEC 74S174	1	1	1	1	1	1	1	1	1	1	1	1	E J
82		1911641	I.C. DEC 74S257	-	5	5	-	-	-	-	-	-	-	-	-	E2, E4, E12, E2Ø, E34
83		1911641	I.C. DEC 74S257	7	-	-	7	7	7	7	7	7	7	7	7	E2, E4, E12, E2Ø, E34, E41, E46
84		1910268	I.C. DEC 751Ø7	1	-	-	1	1	1	1	1	1	1	1	1	E76
85		1912955	I.C. DEC 75322	2	2	2	2	2	2	2	2	2	2	2	2	E67, E74
86		1911116	I.C. DEC 8837	1	1	1	1	1	1	1	1	1	1	1	1	E31
87		1911579	I.C. DEC 8641	7	7	7	7	7	7	7	7	7	7	7	7	E3, E11, E17-E19, E23, E33
88		1911038	I.C. DEC MC4Ø24	1	1	1	1	1	1	1	1	1	1	1	1	E78
89		1912098	I.C. DEC MHØØ26	2	2	2	2	2	2	2	2	2	2	2	2	E66, E73
90																
91																
92		2112726	I.C. DEC, 4K RAM	16	-	-	-	16	-	-	-	-	-	-	-	E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
93		2112958-01	I.C. DEC, 4K RAM	-	-	-	16	-	-	-	-	-	-	-	-	E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
E.C.O. NO.																
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								SHEET 5 OF 6		INSERTION PARTS LIST DATA BASE REV						

DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION											NOTES:							
MADE BY DATE		D. ZWICKER 22-DEC-77		CHECKED DATE	S. KITTLE 22-DEC-77		SECTION 1		M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB				
ENG DATE		CHAO S. CHI 22-DEC-77		PROD DATE		CHAO S. CHI 22-DEC-77		ISSUED SECTION 1															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION																		REF DESIGNATION		
94		2113787-01	I.C. DEC, 4K RAM		-	-	-	-	-	16	-	-	-	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
95		2113795-01	I.C. DEC, 4K RAM		-	-	-	-	-	-	16	-	-	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
96		2113735-01	I.C. DEC, 4K RAM		-	-	-	-	-	-	-	16	-	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
97		2112914-01	I.C. DEC, 4K RAM		-	-	-	-	-	-	-	-	16	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
98		2114114-01	I.C. DEC, 4K RAM		-	-	-	-	-	-	-	-	-	-	-	16	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
99		2114475-01	I.C. DEC, 4K RAM		-	-	-	-	-	-	-	-	-	-	-	-	-	16	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36		
100																							
101																							
102																							
103		2111549-01	I.C. DEC, CP1611B39		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		E53		
104		23002C4	I.C. DEC, CP1621B17		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		E58		
105		23001B5	I.C. DEC, CP1631B1Ø3		1	1	-	1	-	1	1	1	1	1	1	1	1	1	1		E63		
106		23002B5	I.C. DEC, CP1631BØ73		1	1	-	1	-	1	1	1	1	1	1	1	1	1	1		E7Ø		
107		23003B6	I.C. DEC, CP1631B		-	-	1	-	1	-	-	-	-	-	-	-	-	-	-		E63		
E.C.O. NO.																							
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										SHEET 6 OF 6					INSERTION PARTS LIST DATA BASE REV								

[illegible]

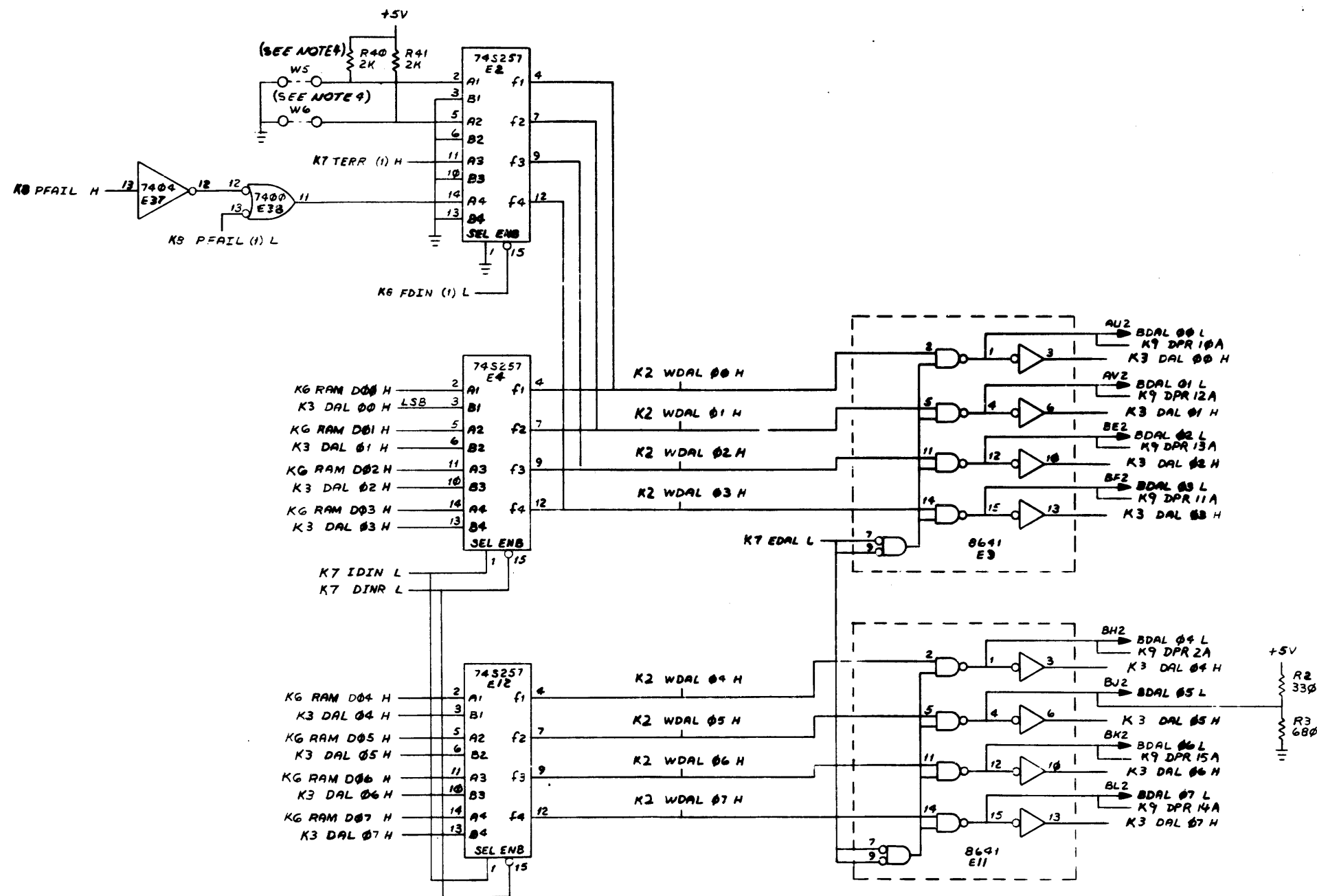
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PREFIX "K2" APPLIES TO ALL WDAL WMIB SIGNALS



REVISIONS		
CHK	CHANGE NO	REV

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DCS M7264-0-1 Y

B

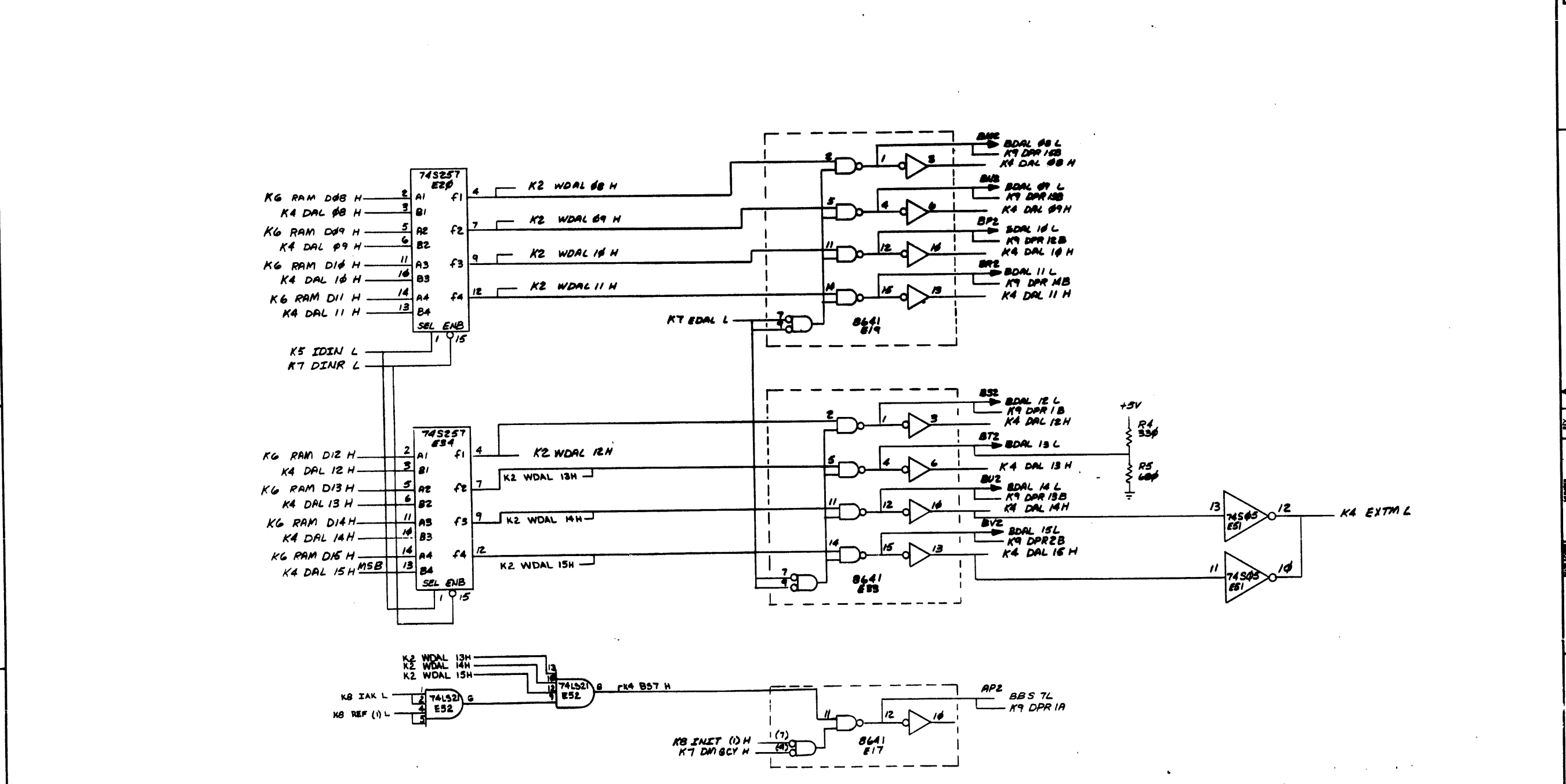
A

REVISIONS		
CHK	CHANGE NO.	REV

DOC FORM NO. 128

TITLE		LSI-II	SIZE CODE	NUMBER	REV.
CPU MODULE (K3)		DCS	M7264-0-1	Y	
SCALE		SHEET	4 OF 10	DIST.	

LSI-11
CPU MODULE (K4)
SHEET 5 OF 10

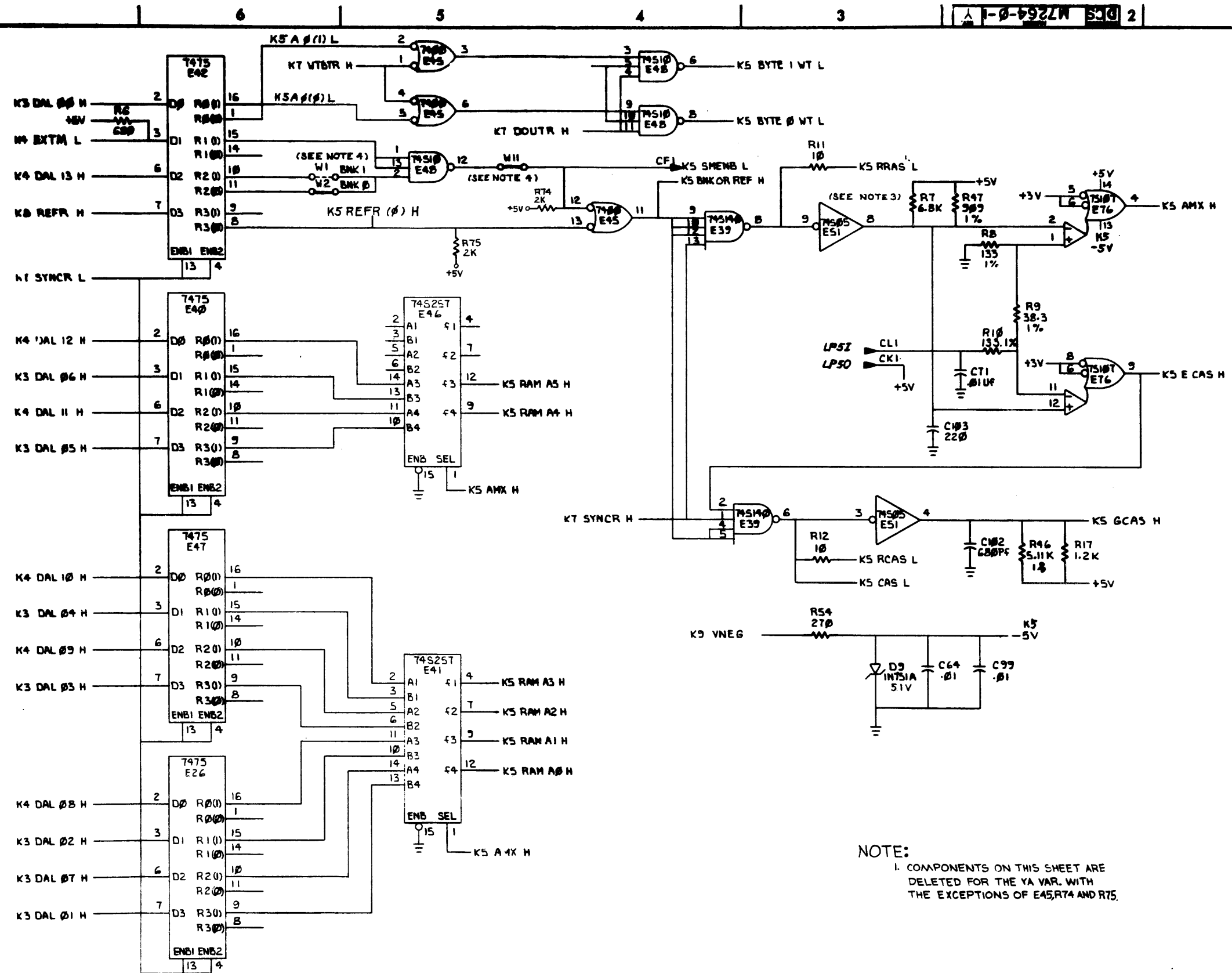


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		LSI-11	SIZE CODE	NUMBER	REV.
CPU MODULE (K4)		DCS	M7264-0-1	Y	
SCALE	SHEET	5	OF	10	DIST.

REVISIONS

REV.	DATE	BY
1		



NOTE:
1. COMPONENTS ON THIS SHEET ARE DELETED FOR THE YA VAR. WITH THE EXCEPTIONS OF E45, R74 AND R75.

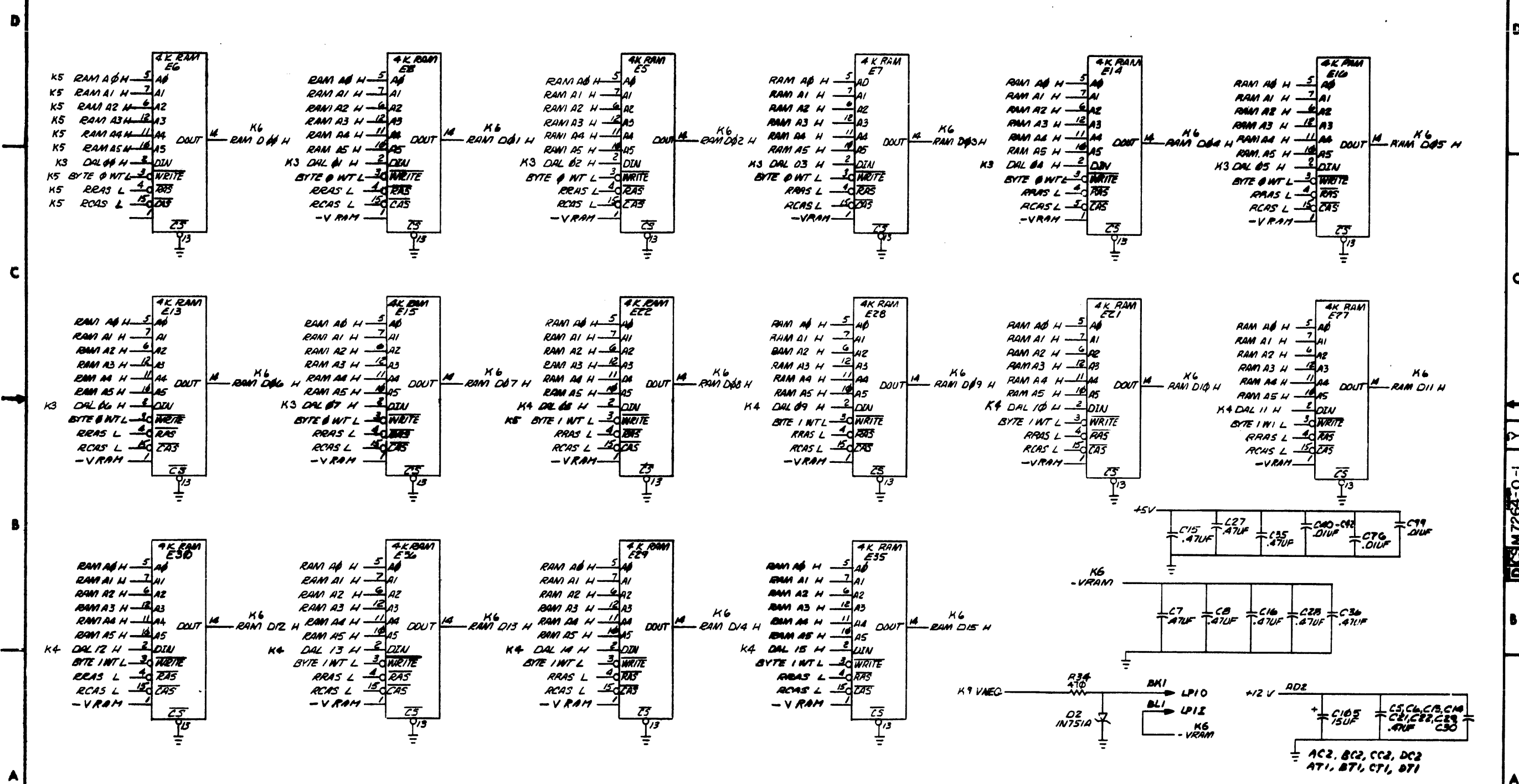
CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "YA" VERSION

TITLE	SCALE	SHEET	OF	NO.	REV.
LSI-11 CPU MODULE (K5)		5	OF 10		Y

REVISIONS

REV.

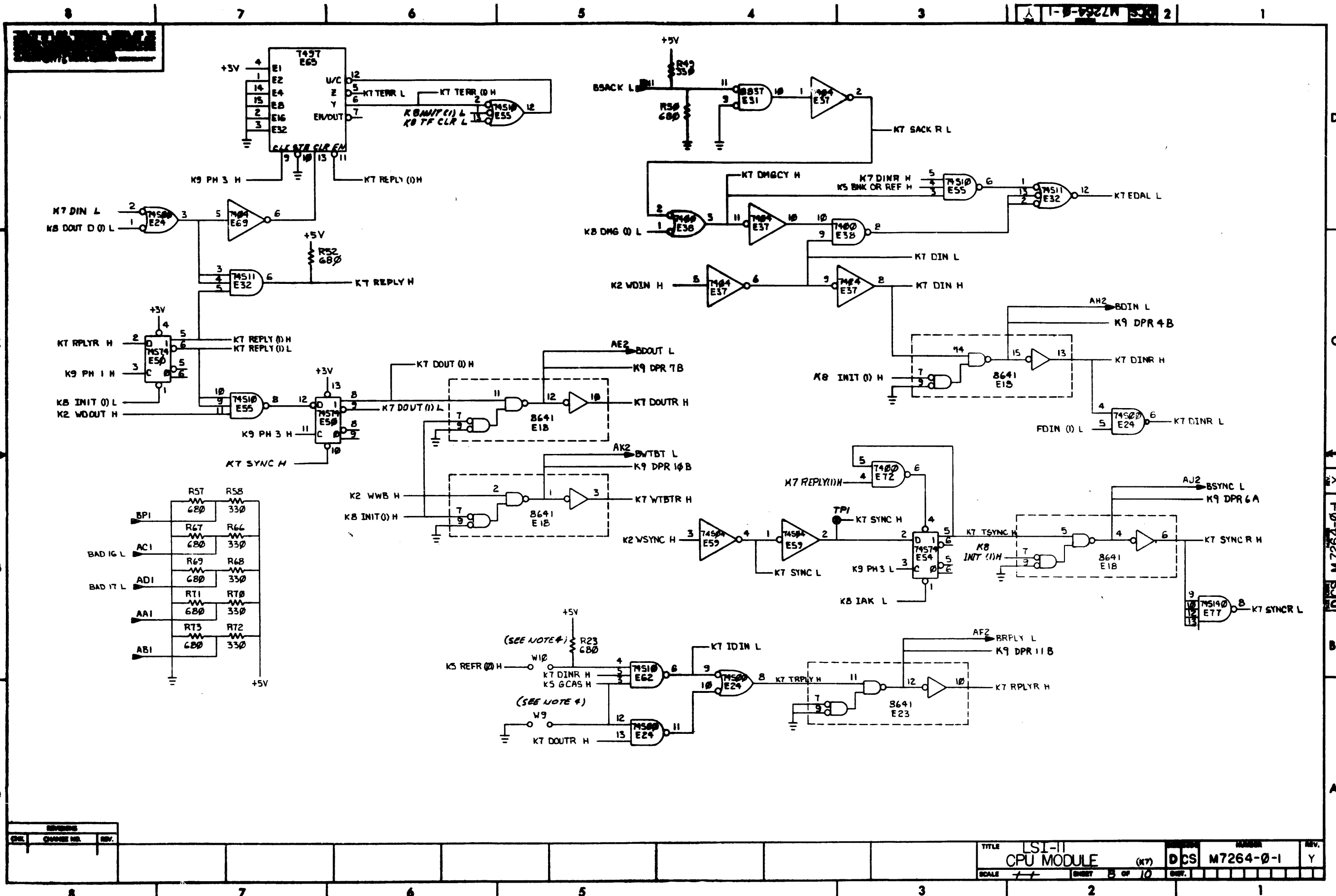
REV.



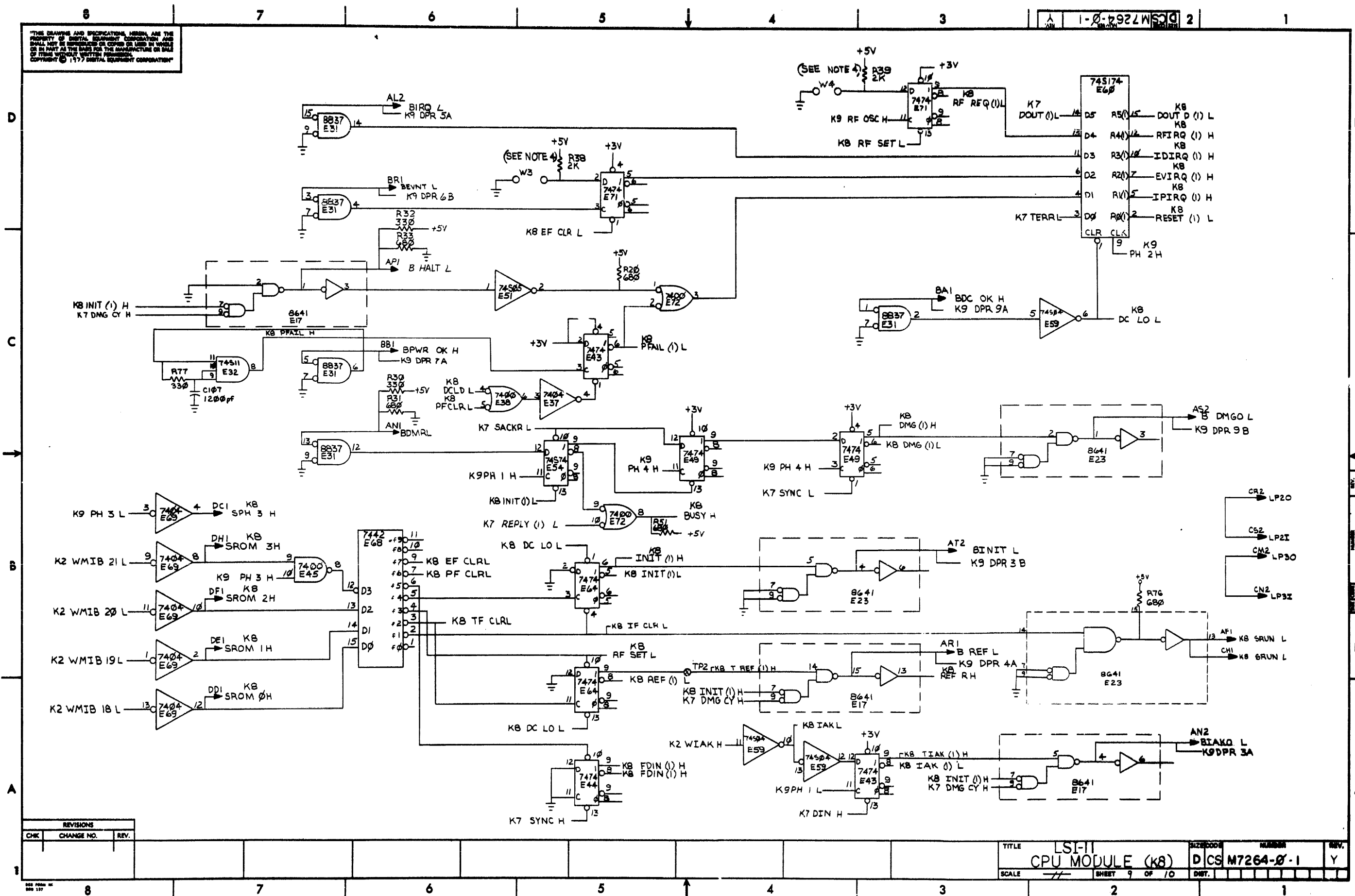
REVISIONS		
CHK	CHANGE NO.	REV.

CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "Y" VERSION

TITLE	LSI-11	REVISION	1-0-7921WS-0 2
CPU MODULE (K6)	DCSM7264-0-1	REV.	Y
SCALE	SHEET 7 OF 16	SHEET	

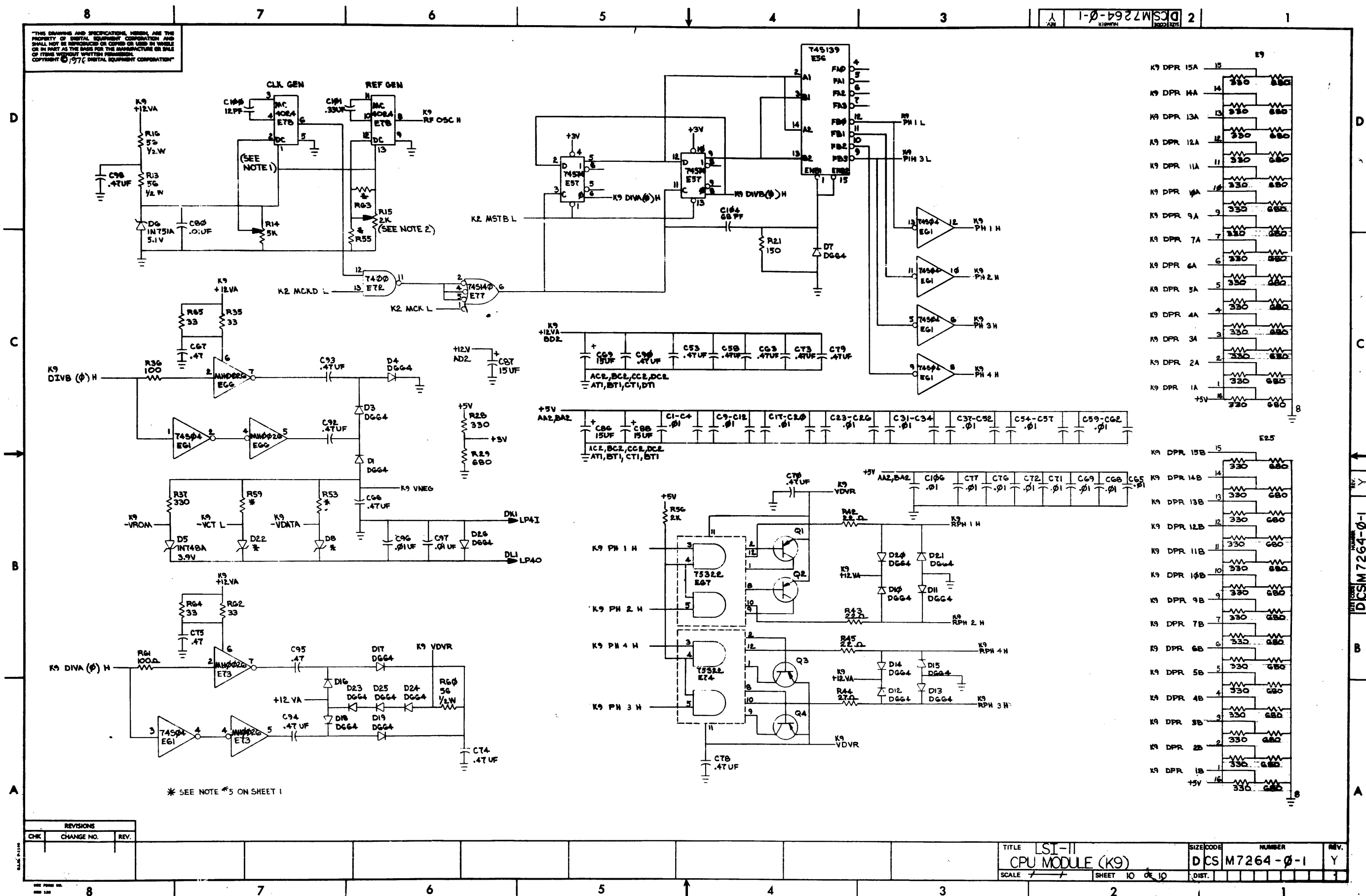


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REVISIONS		
CHK	CHANGE NO.	REV.
1		

TITLE	LSI-II	SIZE	3004	NUMBER		REV.	
	CPU MODULE (K8)						
SCALE	1/1	SHEET	9	OF	10	DWT.	



[illegible]

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION									
PARTS LIST														
MADE BY		Liz Hevesh		CHECKED		SECTION								
DATE		1/19/76		DATE										
ENG		<i>Richard Olsen</i>		PROD		ISSUED SECT.								
DATE		1/29/76		DATE										
ITEM NO.	DWG NO. / PART NO.		DESCRIPTION											
1	MP-0050		CUSTOMER PRINT SET KD11-H											
2	DEC-11-DVKAA-A-PB		BASIC INST TEST PAPER TAPE											
3	DEC-11-DVKAD-A-PB		TRAP TEST PAPER TAPE											
~~4~~	~~EK-LS11-1M~~		~~LS1-11, PDP-11/03 USER'S MANUAL~~											
~~5~~	~~EB-04870-75~~		~~LS1-11, 11/03 PROCESSOR HANDBOOK~~											
6	EH-04779-75		LS1-11 PROGRAMMING CARD											
7	EB-06583-76		MICROCOMPUTER HANDBOOK											
8	DEC-11-DVKAA-A-D		BASIC INSTRUCTION TEST DOCUMENT											
9	DEC-11-DVKAD-A-D		TRAP TEST DOCUMENT											
			*NOTE: These items are shipped with first ship											
			to customer.											
TITLE			ASSY NO.			SIZE CODE		NUMBER			REV.		ECO NO.	
SHIPPING LIST KD11-H						A PL		KD11-H-1			A		KD11-H 00003	
			SHEET 1 OF 1			DIST.								

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FOR FIELD MAINTENANCE
PRINT SET REFER TO
R-TC-KD11-J-Ø-2

[illegible]

REVISIONS		CHANGE NO.	REV.
CHK	—	KD11-J-2	F
REVISED? REDRAWN?			

USED ON OPTION/MODEL		DRN.	DATE	TITLE DRAWING DIRECTORY KD11-J			
11/03		R. RILEY	7/11/75				
		CHK'D.	DATE	SIZE CODE NUMBER REV B DD KD11-J B			
		D. HEALY	9/8/75				
		PROJ. ENG.	DATE	DIST.			
		D. DEROME	9-8-75				
		PROD.	DATE				
		D. DEROME	9-8-75				
SHEET 1 OF 2							

digital

THIS IS PRINT SET

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SEQUENCE

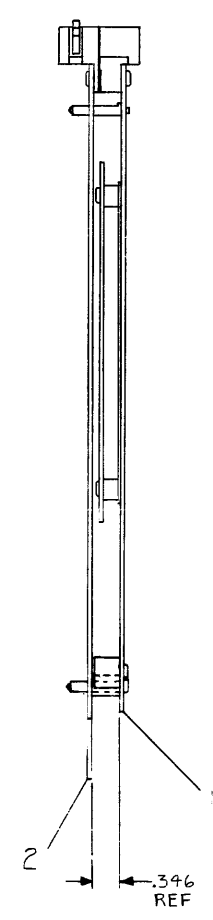
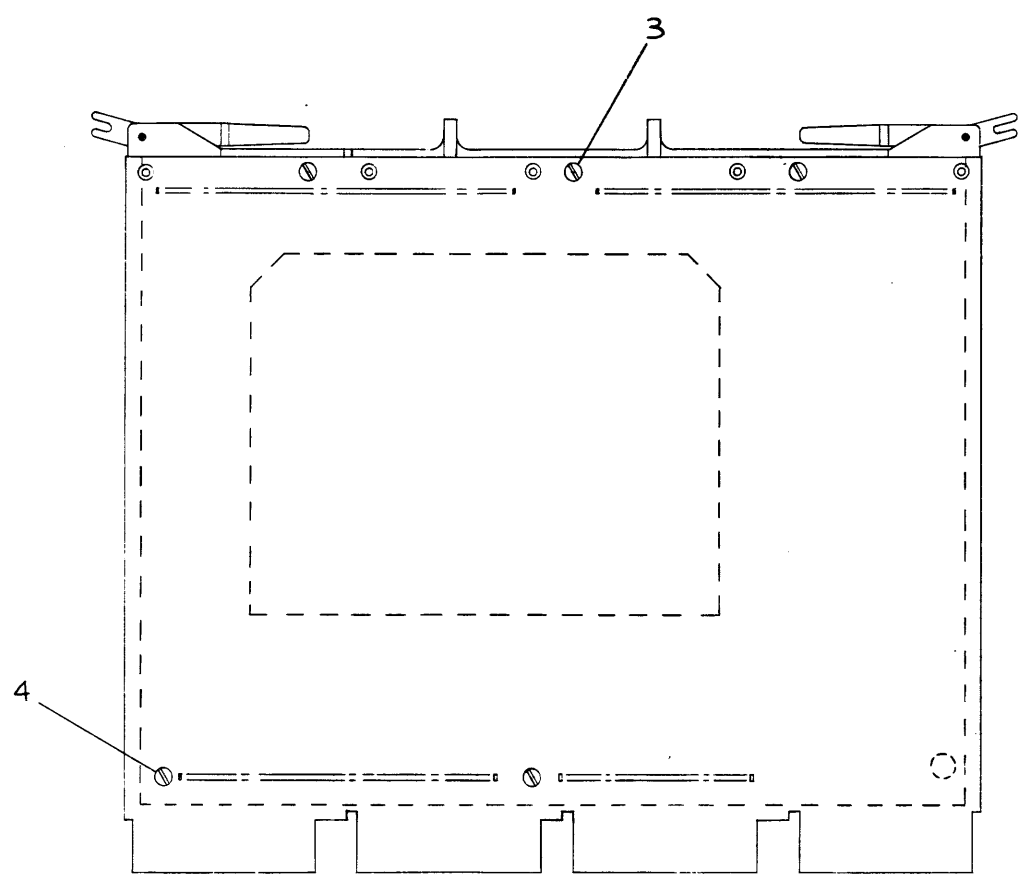
B-DD-MMV11-A
D-UA-MMV11-A
B-DD-H223-Ø

D-CS-G653-Ø-1
D-TD-MMV11-A-1
C-MU-MMV11-A-2
A-SP-MMV11-A-3
A-PL-MMV11-A-4

[illegible]

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE						
DATE	CHG. NO.	REV			W. LUFKIN	7/21/75	MMV11-A MEMORY MODULE						
5-76	MMV11-A-1	A			CHK'D.	7/21/75							
7-76	MMV11-A-2	B			PROJ ENG.	2/19/75							
4-77	MMV11A-3	C			PROD	8-20-75	SIZE	CODE	NUMBER				REV'
					FIELD SERV.	7/20/75	B	DD	MMV11-A				C
			SHEET 1 OF 2				DIST						

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BOX, FOLDING, REVERSE TUCK	A-PS-9905815-0-0	5
2 SCR SLT BAND NYLON #4-40X.25	9009233-04	4
3 SCR SLT PANHD #2-56 X.19 LG. SS	9006401-05	3
4KX16 BIT MEMORY	D-35-6653-0-1	2
H223 CORE MEMORY STACK ASSY	D-A-H223-0-0	

		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
		ANGLES 10° 30'		NORMAL DIMENSION RANGE MICRONS			
		CLASS OF ACCURACY (CHECK ONE)		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 16.0
SURFACE QUALITY		IN		1.004	1.012	1.016	1.020
		MEDIUM		☒	1.008	1.012	1.016
		PREFERRED		☐	1.012	1.016	1.020
QUANTITY & VARIATION		MICRONS					

THIRD ANGLE PROJECTION	DRN. W. LUFKIN 6/18/75	FIRST USED ON	MMVII-A
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. [Signature] 7/14/75	TITLE	MMVII-A MEMORY MODULE ASSY
DO NOT SCALE DWG	ENG. [Signature]	SIZE	CODE
MATERIAL SEE PARTS LIST	PROD. [Signature] 6-20-75	NUMBER	REV.
FINISH	NEXT HIGHER ASSY.	D	JA
	B-DD-MMVII-A-0	MMVII-A-0	A
	SCALE 1/1		
	SHEET 1 OF 1		

REV.	CHANGE NO.	DATE
1	MMVII-A-00003	A
2	27	June 77
3	27	June 77
4	27	June 77

DEC FORM NO. 100-C

[illegible]

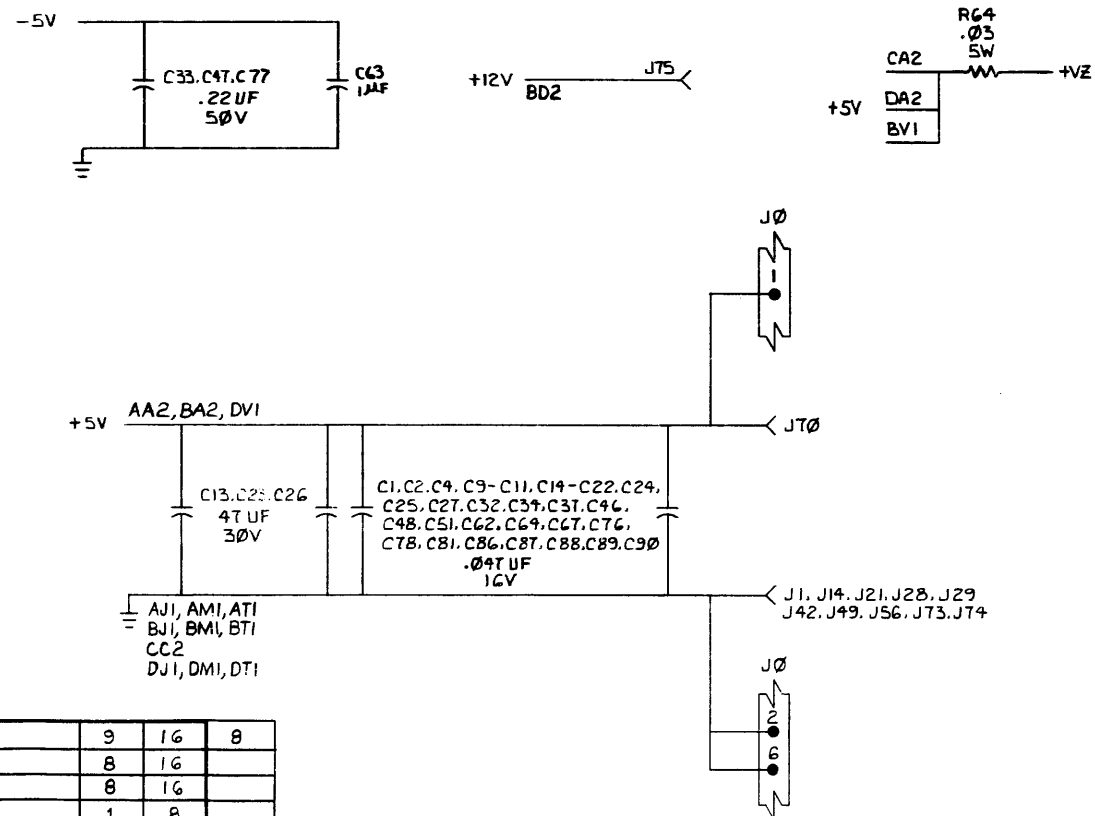
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NOTES:

1. 8640. EI PIN 8 IS +5*
2. 883T. EI PIN 16 IS +5*

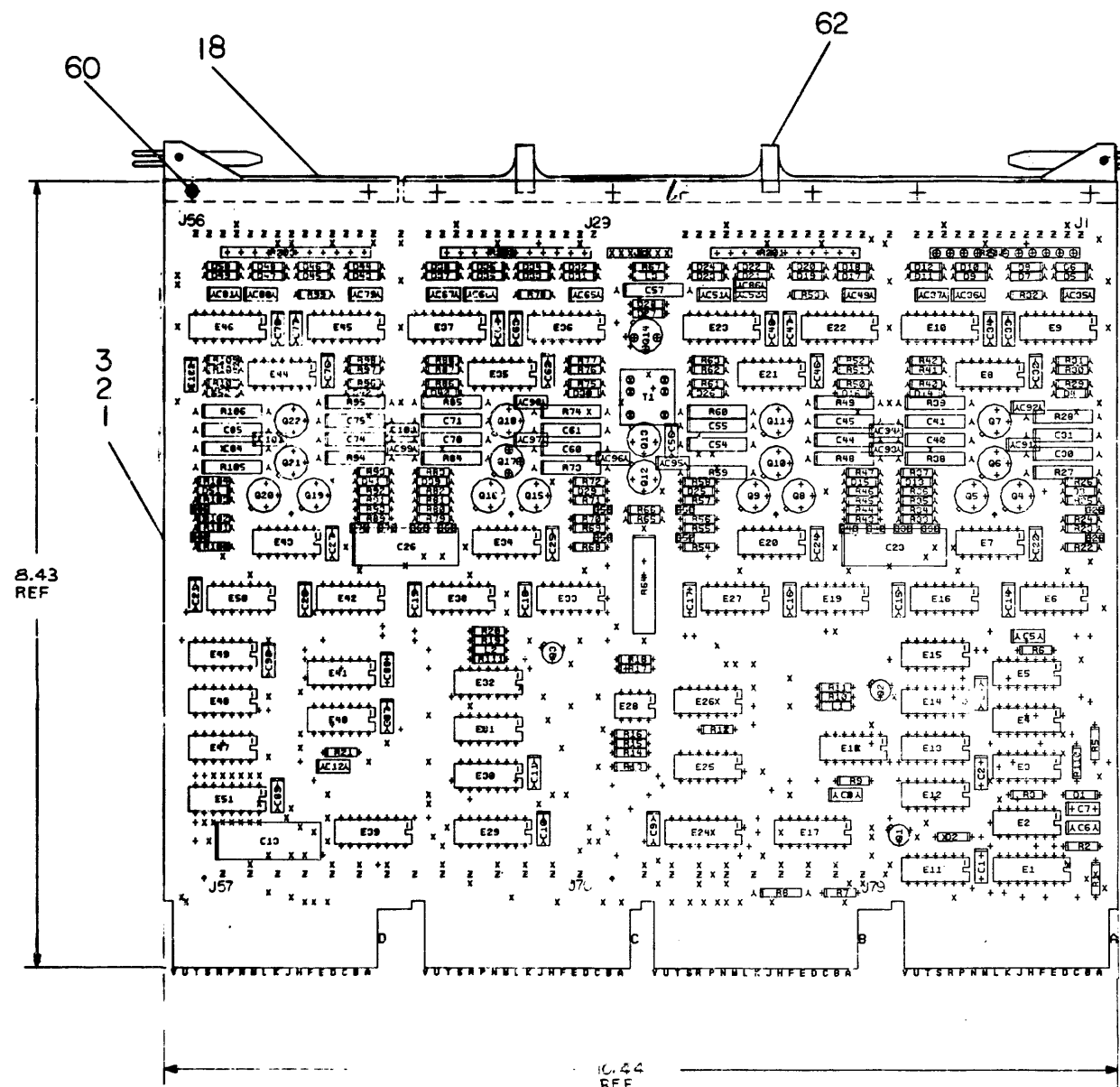
S3	S2	S1	DESIRED BANK
ON	ON	ON	0-4K
ON	ON	OFF	4-8K
ON	OFF	ON	8-12K
ON	OFF	OFF	12-16K
OFF	ON	ON	16-20K
OFF	ON	OFF	20-24K
OFF	OFF	ON	24-28K
OFF	OFF	OFF	28-32K

**E-28 SWITCH POSITIONS
FOR BANK SELECT.**



7528	9	16	8
8837	8	16	
8838	8	16	
8640	1	8	

IC TYPE	GND	+5V	-5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE			
IC PIN LOCATIONS			



QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		ITEM	
FIRST USED ON OPTION MODEL				PARTS LIST					
ETCH BOARD REV.				C					
				DRN. M. POIRIER		DATE 5-12-75			
				CHS'D. Robert Koppelman		DATE 7-1-75			
				ENG. J. M. POIRIER		DATE 1-3-75			
				PROJ. ENG. J. M. POIRIER		DATE 1-3-75			
				PROD. J. M. POIRIER		DATE 7-3-75			
				NEXT HIGHER ASSY		TITLE		MMVII-A	
						4KX16		BIT MEMORY	
DEC NO.		EIA NO.		DEC NO.		EIA NO.			
SEMICONDUCTOR CONVERSION CHART				SCALE		SIZE CODE		NUMBER	
SHEET		OF		8		D CS		G653-0-1	
						REV.		F	

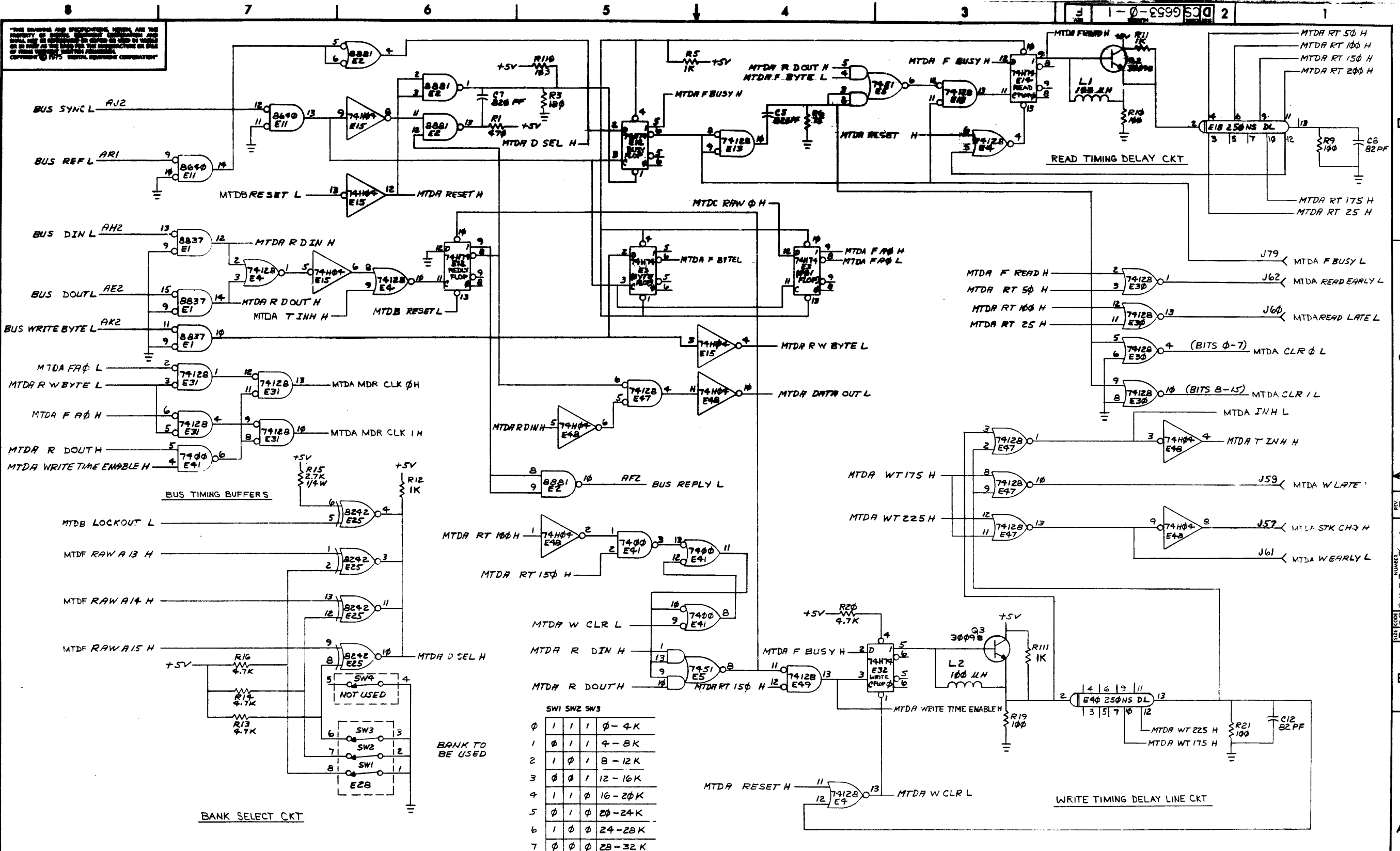
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PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
REF		ASSY/DRILL HOLE LAYOUT	D-AH-0053-0-8	1
REF		MODULE ECO HISTORY	B-MH-0053-0-8	2
1		ETCHED CIRCUIT BOARD	5011032	3
2	C8, 12	CAP 82 PF 100V	1000015	4
1	C8	CAP 1000 PF 100V	1000042	5
8	C35, 36, 49, 50, 65, 66, 79, 80	CAP 120 PF 100V	1000018	6
2	C5, C7	CAP 820 PF 100V	1000027	7
35	C1, 2, 4, 9, 10, 11, 14, 22, 24, 25, 27, 32, 34, 37, 46, 78, 81, 48, 51, 62, 66, 64, 67, 76, 89, 90, 87, 88	CAP .047 UF 16V	1009078	8
17	C30, 31, 40, 41, 44, 54, 45, 55, 60, 61, 70, 71, 74, 75, 84, 85, 57	CAP S. TANT 8.8 UF 35V	1005306	9
16	C28, 29, 38, 39, 42, 43, 52, 53, 58, 59, 68, 69, 72, 73, 82, 83	CAP 3300 PF 50V	1011740-01	10
3	C13, 23, 26	CAP 47 UF 30V	1012219	11
16	C56, 91-102, 33, 47, 77	CAP .22 UF 50V	1010274	12
1	D2	DIODE 1N752A	1102808	13
51	D1, D3-D52	DIODE D672	1105275	14
1	E28	SWITCH 4 POLE DIP	1211164-00	15
78	J1-J79	CONTACT, FEMALE	1211728	16
1	J0	CONN. PLUG, 7 PIN	1212104	17
1		HANDLE, L.H.	7413826-00	18
1	R64	RES .03 5W 3%	1310076-01	19
16	R23, 25, 34, 36, 44, 46, 55, 57, 69, 71, 80, 82, 90, 92, 101, 103	RES 120 5% 1/4W	1300247	20
16	R22, 24, 33, 35, 43, 45, 54, 56, 68, 70, 79, 81, 89, 91, 100, 102	RES 33 5% 1/4W	1300197	21
16	R26, 29, 37, 40, 47, 50, 58, 61, 72, 75, 83, 86, 93, 104, 107, 96	RES 5.1 5% 1/4W	1309422	22
20	R30, 31, 41, 42, 51, 52, 62, 63, 11, 78, 77, 87, 88, 97, 98, 108, 109, 5, 111, 12	RES 1K 5% 1/4W	1300365	23
5	R9, 10, 19, 21, 110	RES 100 5% 1/4W	1300229	24
4	R1, 65, 7, 66	RES 470 5% 1/4W	1300316	25
1	R3	RES 180 5% 1/4W	1301322	26
1	R8	RES 56 5% 1/2W	1309995	27
7	R13-19, 20,	RES 4.7K 5% 1/4W	1300447	28
1	R2	RES 10K 5% 1/4W	1300479	29
1	R6	RES 75 5% 1/4W	1302379	30
1	R67	RES 5.62 K 1% 1/8W	1306128	31
4	R32, 53, 78, 99	RES 10.0K 1% 1/8W	1303312	32
4	R200, 201, 202, 203	RES PACK 11 PIN #80	1311741	33
16	R27, 28, 38, 39, 48, 49, 59, 60, 73, 74, 84, 85, 94, 95, 105, 106	RES 2.0 1% 3W WW	1312542	34
2	Q2, Q3	TRANS 3009B	1503100	35
1	Q1	TRANS 6531B	1509338	36
16	Q4-11, 15-22	TRANS 3762	1509649-01	37
2	Q12, 13	TRANS 3725	1510959	38
2	L1, L2	INDUCTOR 100 UH	1610662	39
1	L3	INDUCTOR 2.2 UH	1609756	40
1	T1	TRANSFORMER	1612523	41
2	E18, 40	DELAY LINE 250 NS	1611243	42

PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
1	E41	I.C. 7400	1805575	43
1	E5	I.C. 7451	1805929	44
1	E2	I.C. 8001	1808705	45
1	E26	I.C. 74H53	1809062	46
12	E3, 6, 12, 14, 16, 18, 27, 32, 33, 38, 42, 50	I.C. 74H74	1809867	47
4	E7, 20, 34, 43	I.C. 7437	1910091	48
1	E25	I.C. 8242	1909712	49
8	E8, 15, 21, 35, 44, 48	I.C. 74H04	1909931	50
8	E9, 10, 22, 23, 36, 37, 45, 46	I.C. 7528	1910687	51
8	E4, 13, 30, 31, 47, 49	I.C. 74128	1912068	52
1	E1	I.C. 8837	1911116	53
4	E17, 24, 29, 39	I.C. 8641	1911579	54
1	E11	I.C. 8840	1911469	55
1	Q14	DEC 320-5.0	1912541-00	56
19		TRANSIPADS	9007201	57
4		STANDOFF SPACERS	9008213	58
4		NYLON SCREW 6-32 X .250	9009041-1	59
8		EYELET, HANDLE	9008732	60
1		HEAT SINK 2201 RED	1210001-00	61
1		HANDLE R.H.	7413826-01	62
REF	E51	SPARE		63
1	C63	CAP 1UF RADIAL	1012274-1.2	64

REVISIONS		
CHK	CHANGE NO.	REV.

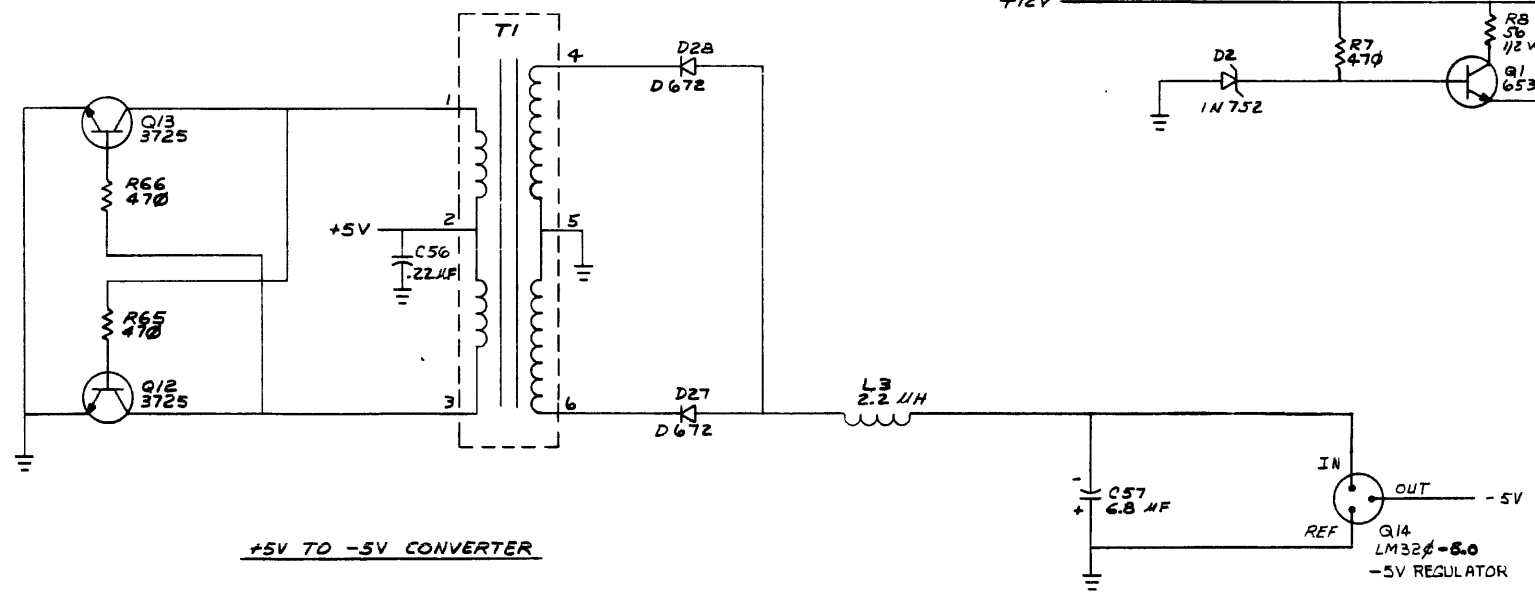
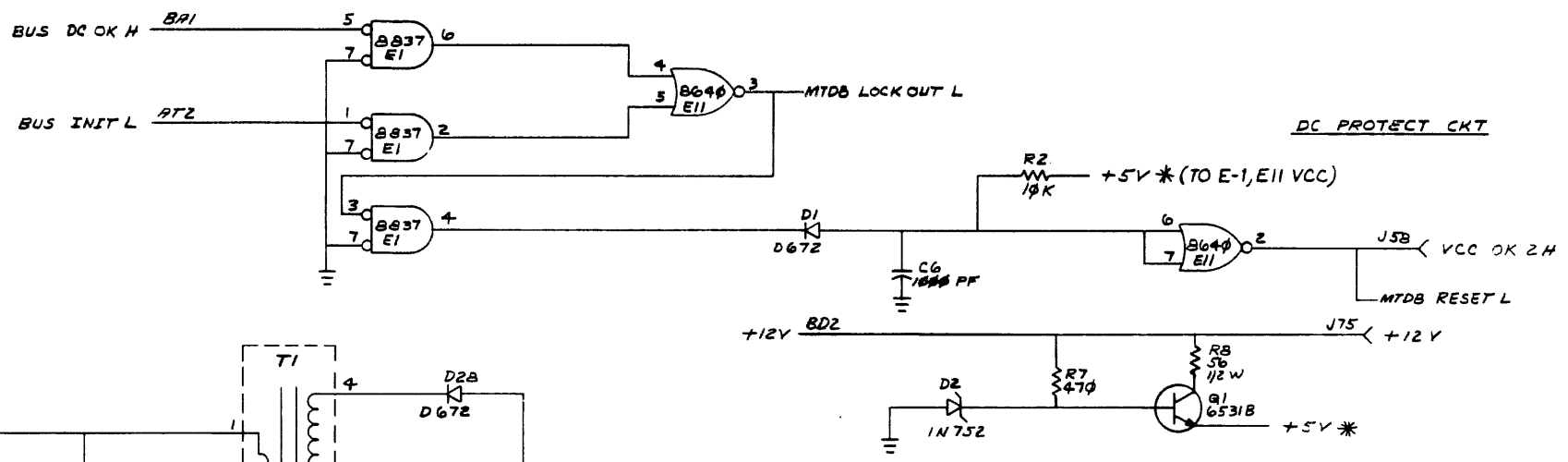
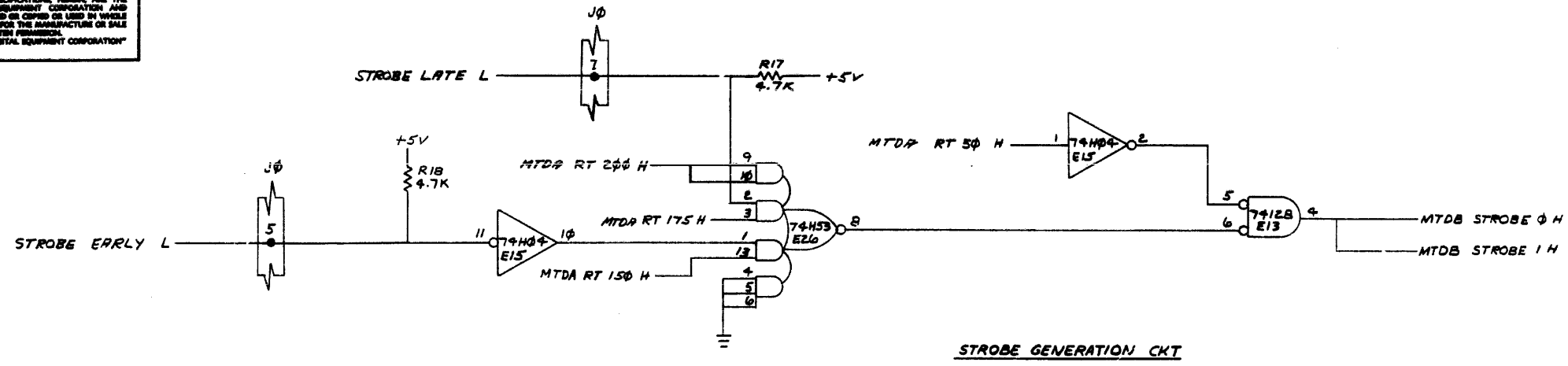
TITLE		SIZE CODE	NUMBER	REV.
4K416 DMV11-A EIT MEMORY		DCS	G653-0-1	F
SCALE		SHEET 2 OF 8	DIST.	



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		MMV1-A		SIZE CODE		NUMBER		REV.	
4Kx16 BIT MEMORY (MTDA)		DCS		G653-0-1		F			
SCALE		SHEET 3 OF 8		DST.					

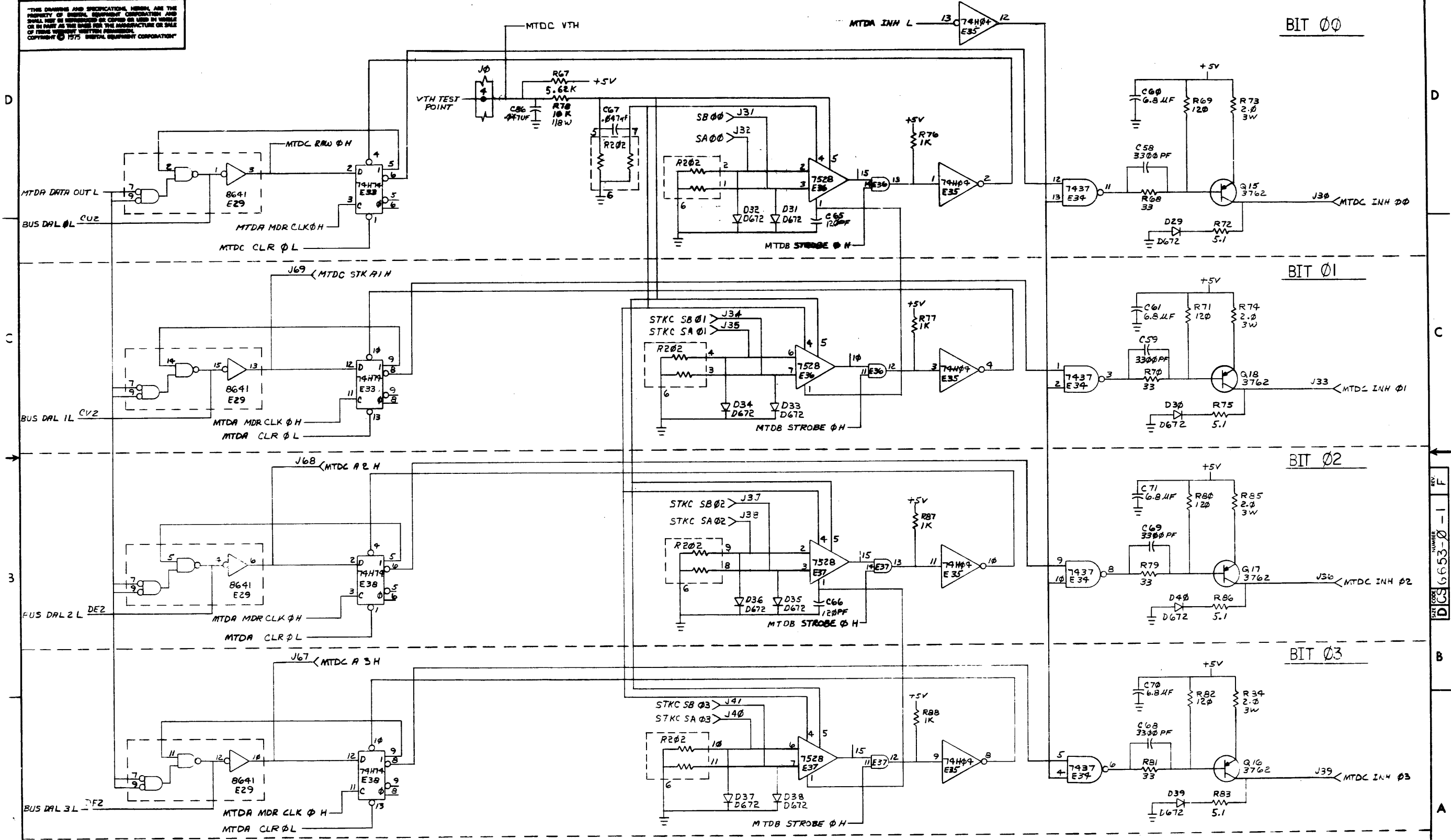
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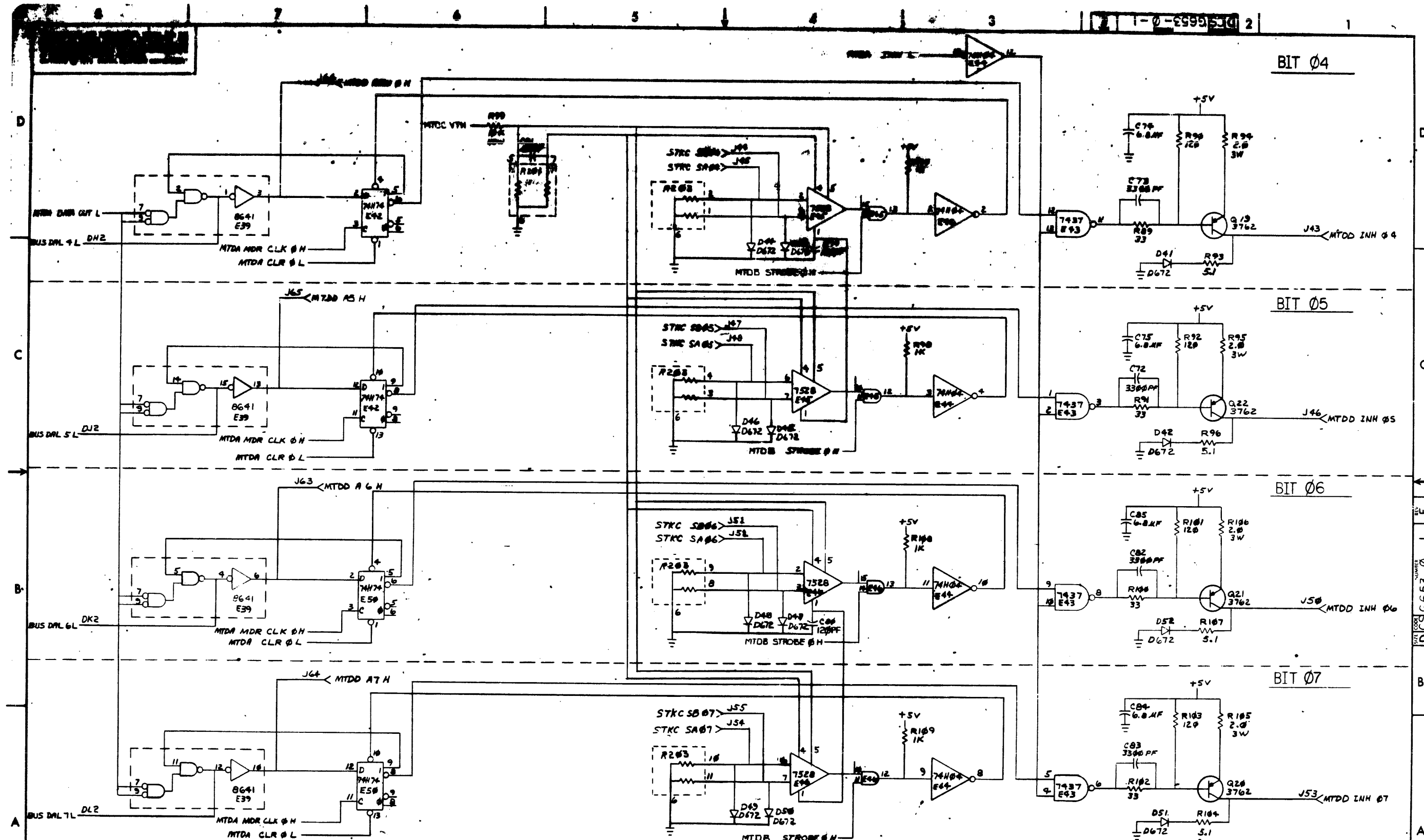


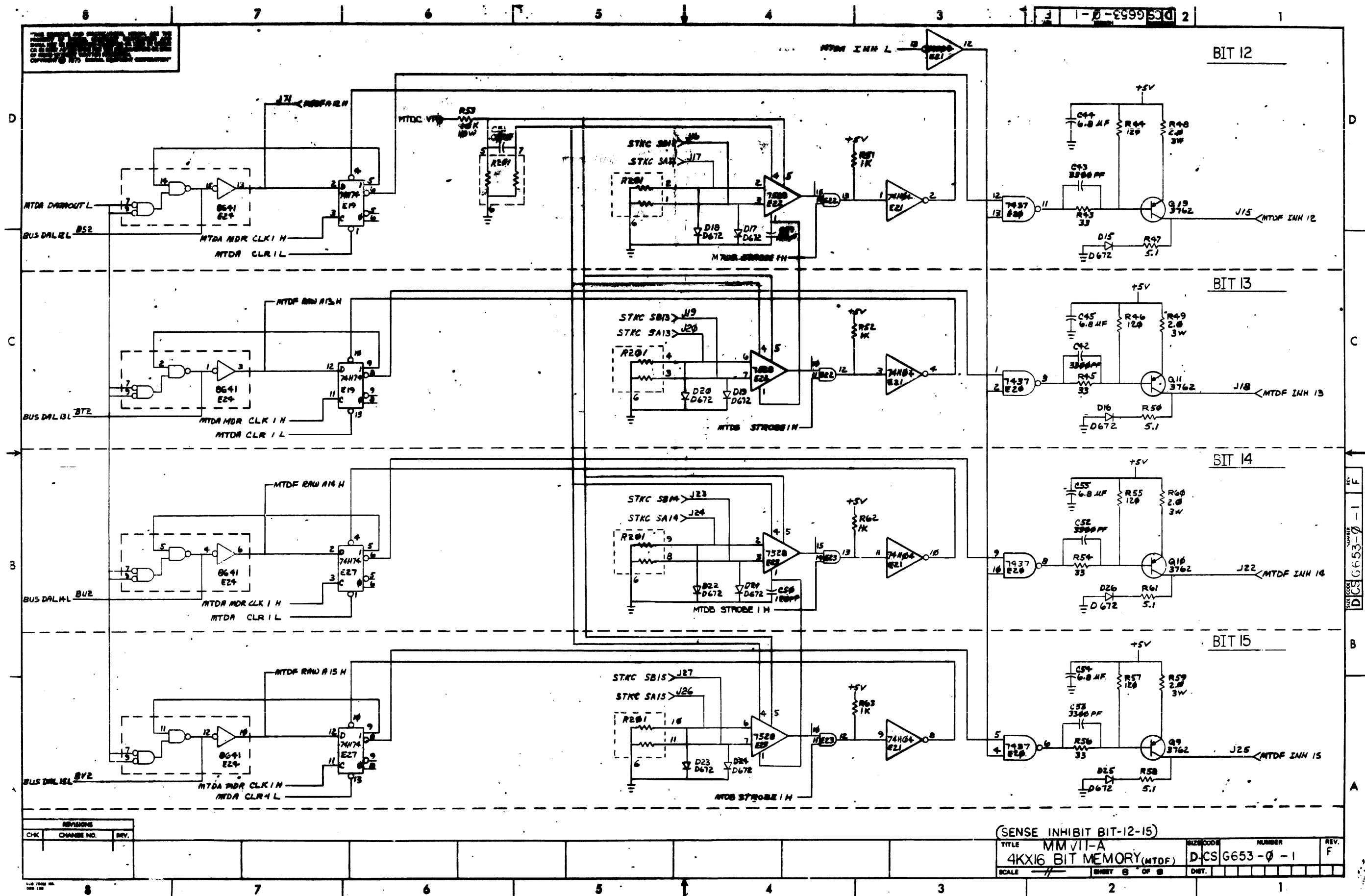
REVISIONS		
CHK	CHANGE NO.	REV.

(CONTROL TIMING)		TITLE		SIZE CODE	NUMBER	REV.
MMVII-A		4KX16 BIT MEMORY (MTDB)		DCS	6-53-0-1	F
SCALE		SHEET 4 OF 8		DIST.		

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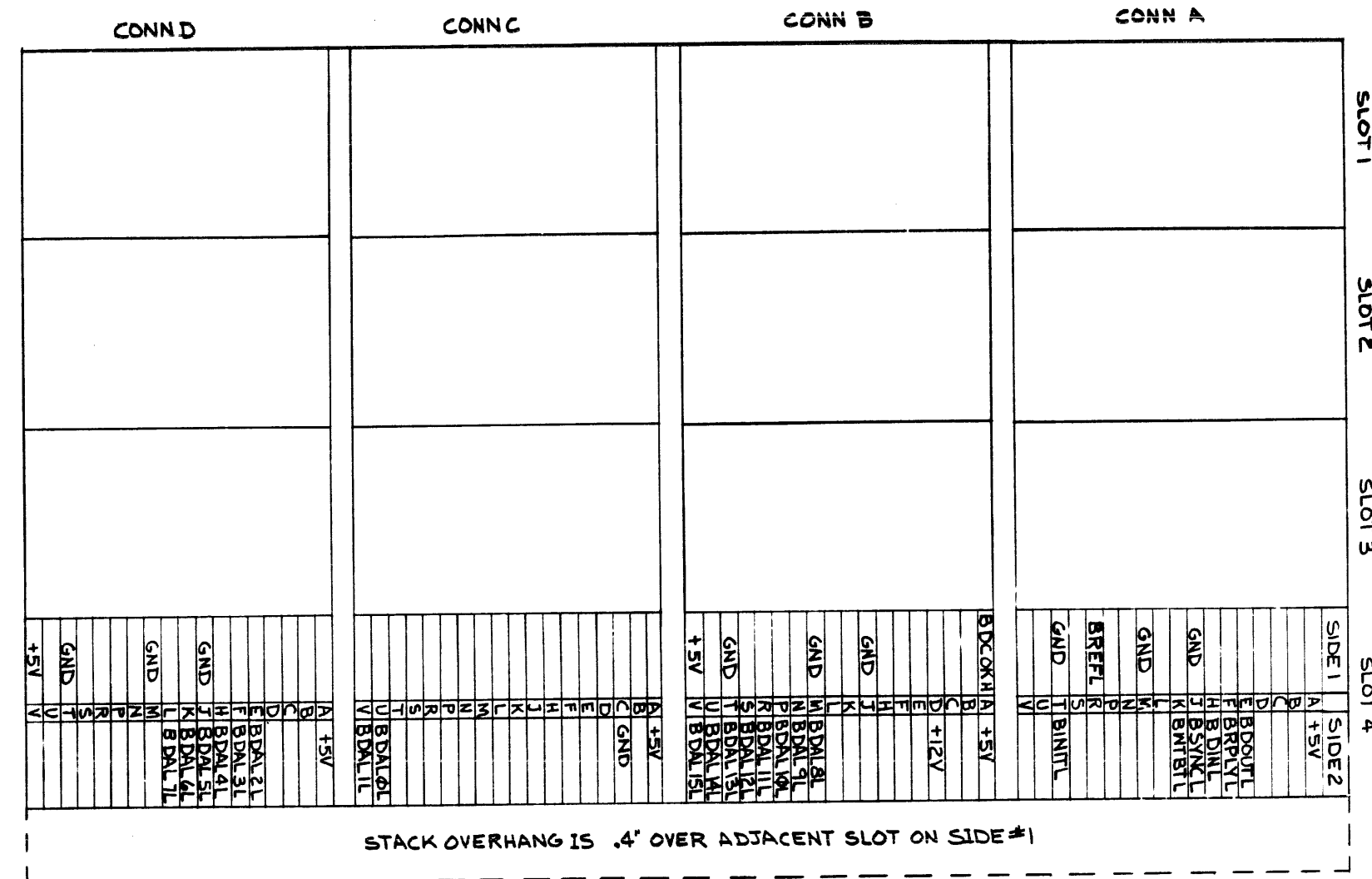




7.

4

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NOTES:

- PIN SIDE VIEW OF BACKPLANE; G653 SHOWN PLUGGED INTO ITS NORMAL SLOT 4, COMPONENT SIDE UP. G653 MAY BE PLUGGED INTO ANY SLOT. THE H223 PLUGS ONTO THE G653 ONLY AND NOT INTO THE BACKPLANE.
- SET UP RANK SELECT ON G653 PER D-CS-G653-0-1, SHEET #1. SIGNALS SHOWN ARE THOSE USED BY THE MMVII-A, NOT THE TOTAL LSI II BUS.
- JUMPERS C2M2 TO C3N2 (BIAKI, OL) AND C2R2 TO C3S2 (BDMGI, OL) ARE REQUIRED FOR A G653 IN SLOT #2. NO BUS PRIORITY JUMPERS ARE REQUIRED FOR THE FOLLOWING SITUATIONS: A G653 PLUGGED INTO SLOTS 1, 3 OR 4 OR A PAIR OF G653'S IN SLOTS 1 & 3 OR 2 & 4.

REV.
CHANGE NO.
CHK

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		DRN. W. LUFKIN	DATE 8/14/75	digital	
MILLIMETERS INCHES ANGLES		CHK'D W. Lufkin	DATE 8/22/75	TITLE	
X,XX = ±0.10	XXX = ±.005	ENG. P. Darnick	DATE 8/11/75	MMVII-A PIN ALLOCATION	
X,X = ±0.5	XX = ±.02	PROJ. ENG. F. Lufkin	DATE 8/11/75	SIZE CODE NUMBER REV.	
X = ±2	X = ±.1	PROD. C. Lufkin	DATE 8-20-75	C MU MMVII-A-2	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		DIST.	
MATERIAL	FINISH	SCALE		SHEET 1 OF 1	

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS									
ENGINEERING SPECIFICATION									
TITLE MMV11-A ENGINEERING SPECIFICATION									
DATE 7/17/75									
REVISIONS									
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE			
The MMV11-A is a 4K X 16 core memory, compatible with the LSI-11 Bus, to be packaged on a quad plug-in module .9" thick. 1.0 <u>Physical Description:</u> The system is made from two (2) quad modules which plug together with Amp Mod U Pins. The G653 MMV11-A main board module is a DEC standard quad 8-1/2" module using a DEC standard quad metal handle and pinned on the four connectors for the LSI-11 Bus. It contains the inter-face, control and timing logic, the bus receivers and drivers, the 16 data loops and the +5 to -5 converter. The H223 stack module is a non-standard quad with no handles, no connectors and with the sides trimmed .187" so as not to interfere with card guides. It plugs onto the #2 side of the G653 via the Amp Pins and spacing between boards will be .400" center to center. The H223 stack module contains the core substrate, steering diodes, stack charge circuit and the drive matrix.									
ENG	4000000 8/19/75	APPD	PD Durand 8/19/75	SIZE	CODE	NUMBER	REV		
				A	SP	MMV11-A -3			
DEC FORM NO EN-0020-1070-0072 DRA 107									

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE MMV11-A ENGINEERING SPECIFICATION			
2.0 <u>Power Supply Requirements</u> Voltages/Currents Required at Memory Connectors:			
	Standby	Active	
	12V $\pm$ 3%	.200 A	.600 A
	5V $\pm$ 5%	3.0 A	6.0 A
These currents represent 1.2 usec rep rate, all 0 operation. The algorithm to calculate actual power required from +5 supply is I Standby + [(I Active - I Standby x ACTUAL REP RATE x # of 0's) / 16]			
Max Power Dissipation: G653 = 20W H223 = 17W			
3.0 <u>Performance</u>			
Temp Spec			
System will have operating margin over the range 5 - 80°C, input air. Air flow 200 lin. ft/min.			
At 25 C			
T Cycle	1.2 usec Max	1.10 Typ	
T Access	475 ns Max	425 Typ	
Δ Vth	18 mv Nominal $\pm$ 7 mv		
T Strobe	Nominal $\pm$ 25 ns		
Δ +5V	5.0V $\pm$.4V ($\pm$ 8%)		
Δ +12V	12.0V $\pm$.7V ($\pm$ 6%)		
Memories will be tested on 2223 auto exerciser per program AUTOCAT-08-QMVA-A.			
The MMV11-A functions in accordance with the LSI-11 Bus Spec on DATA, DATA and DATA Modes. Jumpers must be installed on backplane to bypass the bus grant signals around the memory.			
SIZE		CODE	NUMBER
A		SP	MMV11-A -3
REV			
DEC FORM NO EN-0020-1070-0072 DRA 108			
SHEET 2 OF 3			

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE MMV11-A ENGINEERING SPECIFICATION			
The 4K bank location is switch programmable on the 4K boundaries starting at 0, 4K etc. to 28K.			
The memory can be "On Line" strobe margined by grounding pins on the test connector at the rear of the module (J0). Grounding Pin J0-5 moves strobe 25ns earlier than nominal, J0-7 grounded moves strobe 25ns later than nominal. All programs should run in both positions if +5 and +12V are at nominal.			
SIZE		CODE	NUMBER
A		SP	MMV11-A -3
REV			
DEC FORM NO EN-0020-1070-0072 DRA 108			
SHEET 3 OF 3			

MAYNARD, MASSACHUSETTS

MADE BY P. GROSSE	CHECKED <i>B. Chirsson</i>	SECTION
DATE 20 JULY 76	DATE <i>20 July 76</i>	1
ENG C. JAMES	PROD R. HOLZER	ISSUED SECT.
DATE 20 JULY 76	DATE 20 JULY 76	1

MMVII-A

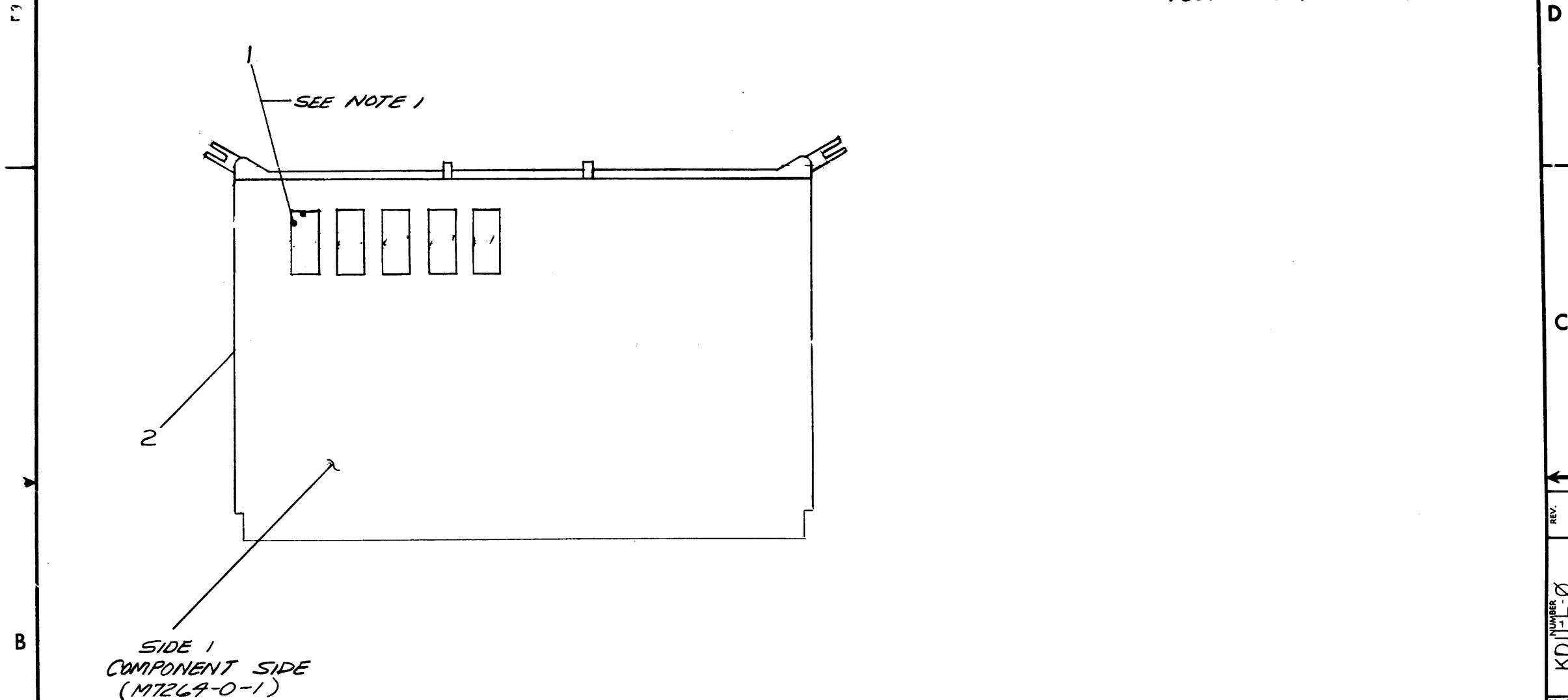
DEC FORM DEC 16-(325)-1031-N870
DRA 110

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						UNIT VARIATIONS															
						VAR	TITLE														
NOTE: FOR FIELD MAINTENANCE PRINT SET REFER TO B-TC-KD11-L-2						KD11-L	PROC/4K RAM MEMORY & KEV11														
												digital DRAWING DIRECTORY KD11-L									
						DRN. R. RILEY 7/11/75 CHK'D. D. HEALY 9/8/75 PROJ. ENG. D DEROME 9/8/75 PROD. D DEROME 9/8/75															
						USED ON OPTION/MODEL SHEET 1 OF 2															
						DATE 7/11/75 DATE 9/8/75 DATE 9/8/75 DATE 9/8/75															
						TITLE SIZE CODE NUMBER REV B DD KD11-L B DIST.															

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NOTES:

1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED



REV.
CHANGE NO.
CHK

DEC FORM NO.
DRC 100-8

FIRST USED ON OPTION/MODEL 11/03			QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE			PARTS LIST			
DIMENSIONS ARE <u>MILLIMETERS</u> INCHES UNLESS OTHERWISE SPECIFIED			digital			
MILLIMETERS	INCHES	ANGLES	ENG.	DATE	TITLE	
X,XX = ±0.10	XXX = ±.006	30° 30'	CHK'D	9-15-75	PROCESSOR/4K RAM	
XX = ±0.5	JX = ±.02		ENG.	9-15-75	MEMORY & KEV11	
X = ±2	X = ±.1		PROJ. ENGR.	9-15-75		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD.	9-15-75		
	MATERIAL SEE PARTS LIST		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
	FINISH		SCALE NONE		C UA	KD11-L-Ø
			SHEET 1 OF 1		DIST.	REV.

THIS IS PRINT SET

--	--	--	--

SEQUENCE 70

REVISIONS					USED ON OPTION/MODEL		DRN.	DATE	TITLE						
DATE	CHG. NO.	REV					R. RILEY	7/11/75	DRAWING DIRECTORY						
1-76	KEVII-1	A					CHK'D.	DATE	KEVII						
2-76	KEVII-2	B					D. HEALY	9/8/75							
4-77	KEVII-3	C					PROJECT	DATE							
5-77	KEVII-4	D					PROD.	DATE							
							FIELD SERV.	DATE							
					SHEET	1	OF	2							

MAYNARD, MASSACHUSETTS

PARTS LIST

DATE _____

DATE _____

11

ENG

PROD

ISSU

ITEM NO.

DESCRIPTION

1

DEC11-DVKAB-A-PB

EIS TEST PAPER TAPE

2

DEC11-DVKAC-A-PB

FIS TEST PAPER TAPE

3

EK-KEV11-IP-001

INSTALLATION PROCEDURE KEV11

4

DEC11-DVKAB-A-D

EIS TEST DOCUMENT

5

DEC11-DVKAC-A-D

FIS TEST DOCUMENT

6

B-DD-KEV11-Ø

CUSTOMER PRINT SET

* NOTE: These items are shipped with first

ship to customer.

TITLE

SHIPPING LIST - KEV11

ASSY NO.

SIZE**CODE**

NUMBER.

REV

ECO NO.

ECU NO.
KEVII-

SHEET 1 OF 1

DIST.

6/975 DIGITAL EQUIPMENT CORPORATION

1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED

2

Δ

DEC FORM 148
DEC 1992-B

SIZE CODE	NUMBER	REV.
CUA	KD11-L-Ø	

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NOTES:

1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED

SEE NOTE 1

SIDE 1
COMPONENT SIDE
(M7264-YA-1)
(MMVII-A NOT
SHOWN)

REV.	CHANGE NO.	CHK

DEC FORM NO.
DNC 100-0

FIRST USED ON OPTION/MODEL 11/03		
DIMENSIONAL TOLERANCE DIMENSIONS ARE <u>MILLIMETERS</u> UNLESS OTHERWISE SPECIFIED		
MILLIMETERS	INCHES	ANGLES
X,XX ±0.10	.XXX ±.005	±0° 30'
X,X ±0.5	.XX ±.02	
X ±2	.X ±.1	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	
	MATERIAL SEE PARTS LIST	
	FINISH — 11 —	

1	PROC/4K CORE MEM	A-PL-KDV-J-Ø	2
1	EIS/HIS (EAE FLOAT. PT.)	A-PL-KEVII-Ø-Ø	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRW 9/15/75	DATE	digital	
CHK'D 9/15/75	DATE		
ENG. 9/15/75	DATE	TITLE	
PROJ. ENG. 9/23/75	DATE	PROCESSOR/4K CORE	
PROD. 7/17/75	DATE	MEMORY & KEVII	
NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
B-DD-KDII-M	C UA	KDII-M-Ø	
SCALE NONE			
SHEET 1 OF 1	DIST.		

THIS IS PRINT SET

SEQUENCE

FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-R-2

[illegible][illegible]



THIS IS PRINT SET

SEQUENCE

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-S-2

UNIT VARIATIONS

PRINT SET

[illegible]

REVISIONS		USED ON OPTION/MODEL		DRN.	DATE	TITLE	
DATE	CHG. NO.			REV	R. COOK		
			11/03	CHK'D. <th>DATE</th> <td colspan="2" rowspan="2">DRAWING DIRECTORY KD11-S</td>	DATE	DRAWING DIRECTORY KD11-S	
				R. COOK <th>7/12/77</th>	7/12/77		
				PROJ ENG. <th>DATE</th> <td colspan="2" rowspan="2"></td>	DATE		
				Duke Bennett <th>7/14/77</th>	7/14/77		
				PROJ. <th>DATE</th> <td colspan="2" rowspan="2">SIZE CODE NUMBER REV</td>	DATE	SIZE CODE NUMBER REV	
				W. L. L. L. <th>9/14/77</th>	9/14/77		
				FIELD SERV. <th>DATE</th> <td colspan="2" rowspan="2">B DD KD11-S</td>	DATE	B DD KD11-S	
				3 Kennedy <th>14 July 77</th>	14 July 77		
		SHEET 1 OF 2				DIST	

EN-01062-1A-16-R972-(325

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

- | | FIELD MAINTENANCE PRINT SET | TABLE OF CONTENTS |
|--|-----------------------------|-------------------|
| 1. B-TC-MSV11-C-4 | | |
| 2. D-UA-M7955- ~~0~~ - ~~0~~ | MSV11-C LSI MOS MEMORY | |
| 3. B-PL-M7955- ~~0~~ - ~~0~~ | MSV11-C LSI MOS MEMORY | |
| 4. D-CS-M7955- ~~0~~ -1 | MSV11-C LSI MOS MEMORY | |
| 5. D-MD-5012203- ~~0~~ - ~~0~~ | M7955 DRILL & ETCH DRAWING | |
| 6. D-TD-M7955- ~~0~~ -2 | MSV11-C TIMING DIAGRAM | |

[illegible]

MSVII-C

Field Maintenance Print Set

Digital Equipment Corporation

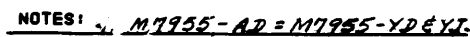
MP00259

REVISIONS	REV.				USED ON OPTION/MODEL	DRN. <i>[Signature]</i>	DATE 27 OCT 76	TITLE: MSV11-C LSI MOS MEMORY								digit			
	CHG. NO.					CHK'D <i>[Signature]</i>	DATE 30 NOV. 76												
	DATE					PROJ. ENG. <i>[Signature]</i>	DATE 30 NOV 76												
						FIELD SERV.	DATE <i>[Signature]</i> 24/1/76												
					SHEET I OF 1														
	SIZE B		CODE TC		NUMBER MSV11-C-4				REV. *										
	DIST.																		

NOTE: 1. FOR M7955-AC, SEE SHEET 2.

2. FOR M7955-AB, SEE SHEET 3.

3. FOR M7955-AA, SEE SHEET 4.



CHANGE NO REV

FOR PL, SEE B-PL-M7955-0-0.

ETCH REV. C
P.C. DESIGN DATA BASE REV. C1 / CM

SIGNATURES		DATE	digital			
DRN. P. GULLIVAT.		4/1/75				
CHK'D. J. Egan		9/13/74				
ENG. J. Egan		11/7/75				
PROJ. ENG. J. Egan		11/3/76				
PROD. R. Matz		11/19/76				
SCALE 2 : 1		SIZE CODE	NUMBER		REV	
SHT. 1 OF 9			0			
NEXT HIGHER ASSY. ROD-M7955-0						
		U/A		M7955-0-0	B	

MODULE VARIATION:
M7955-AC

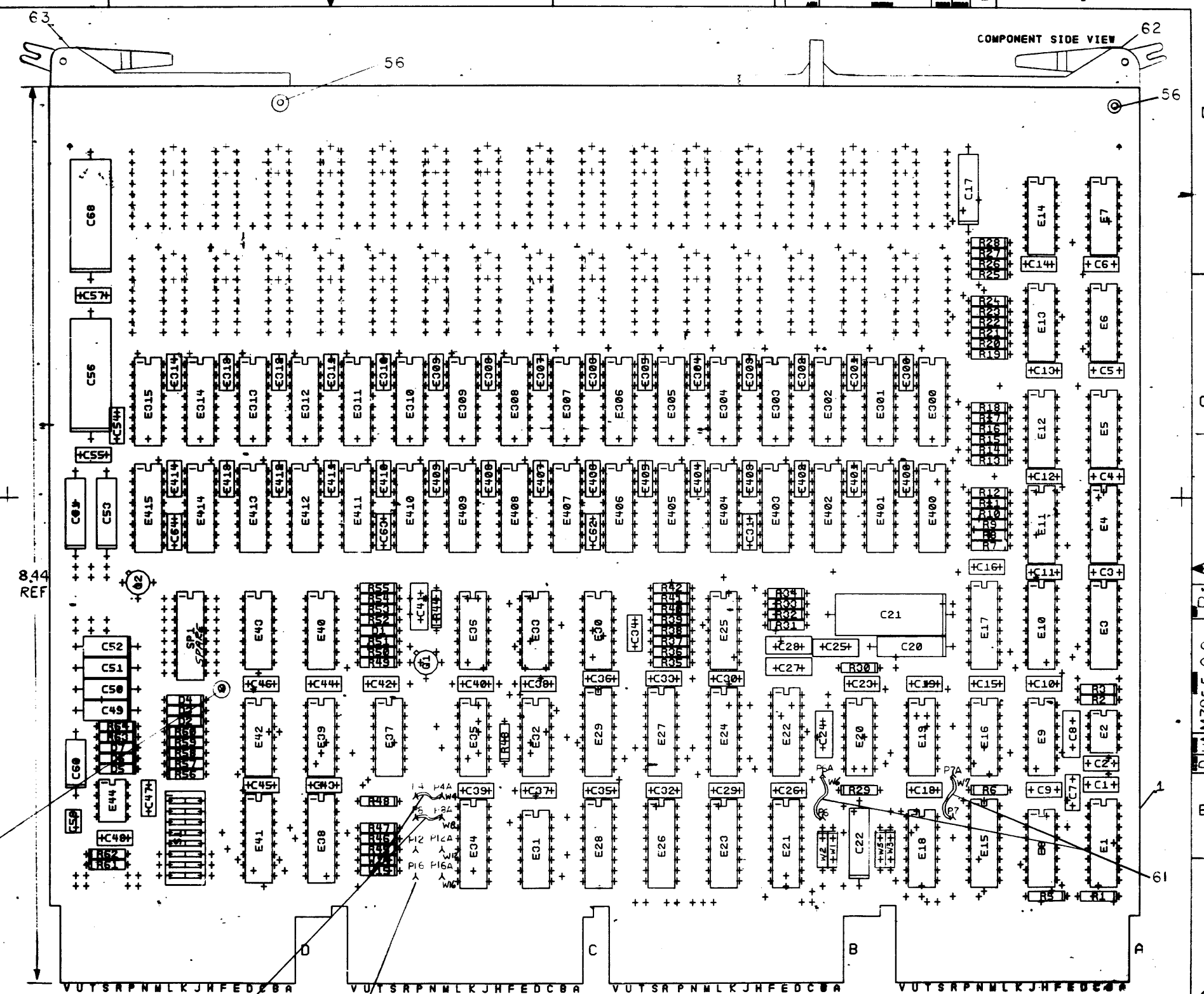
NOTES: 1. M7955-AC = M7955-AC & YH.

SIGNATURES	DATE	TITLE	NUMBER	REV
DRN. P. C. L. V. M. S. I.	11/1/76	digital	MSVII-C LSI	
CHK'D. P. C. L. V. M. S. I.	11/1/76			
ENG. P. C. L. V. M. S. I.	11/1/76			
PROJ. ENG. P. C. L. V. M. S. I.	11/1/76			
PROD. P. C. L. V. M. S. I.	11/1/76			
SCALE 2				
SHT. 2 OF 9				
NEXT HIGHER ASSY. BOD-M7955-0				

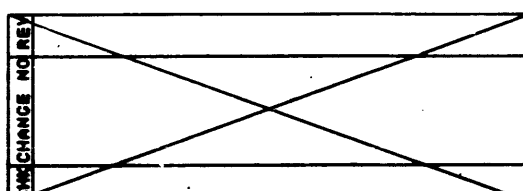
SIGNATURES		DATE	digital				
DRN. P. CULLIVAN		11/18/76					
CHK'D. J. [Signature]		11/18/76					
ENG. J. [Signature]		11/18/76	TITLE MSVII-C LSI				
PROJ. ENG. J. [Signature]		11/18/76	MOS MEMORY				
PROD. R. [Signature]		11/18/76					
SCALE 2			SIZE CODE		NUMBER		REV
SHT. 2 OF 9			DUA		M7955-0-0		B
NEXT HIGHER ASSY: BOD-M7955-0							

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MODULE
VARIATION:
M7955-AB



NOTES: M7955-AB=M7955-YB&YE



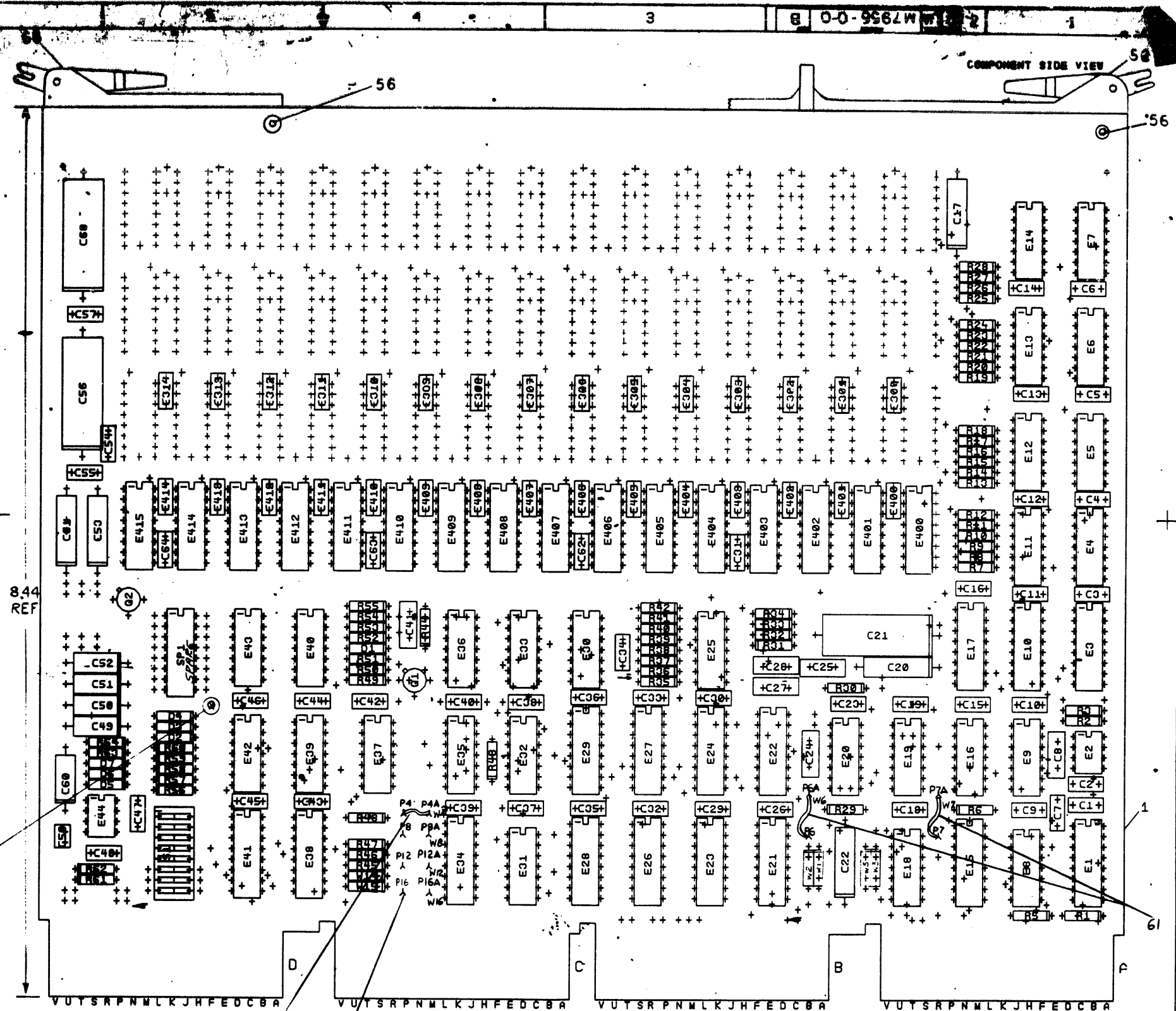
FOR PL, SEE B-PL-M7955-0-0

ETCH REV. C
PLC DESIGN DATA BASE REV. CL/CM

SIGNATURES	DATE
DRM. R. SULLIVAN	7-77
CHK'D. J. J. J.	7-77
ENG. J. J. J.	7-77
PROG. J. J. J.	7-77
SCALE 3 OF 9	
INT. 3 OF 9	
NEXT 3 OF 9	

digital
TITLE MSVII-C L
MOS

MODULE
VARIATION:
M7955-AA



NOTES: 1. M7955-AA = M7955-YA & YE.

CHANGE NO	REV

FOR PL, SEE B-PL-M7955-1-A

ETCH REV. C
P.C. DESIGN DATA BASE REV. CL/CM

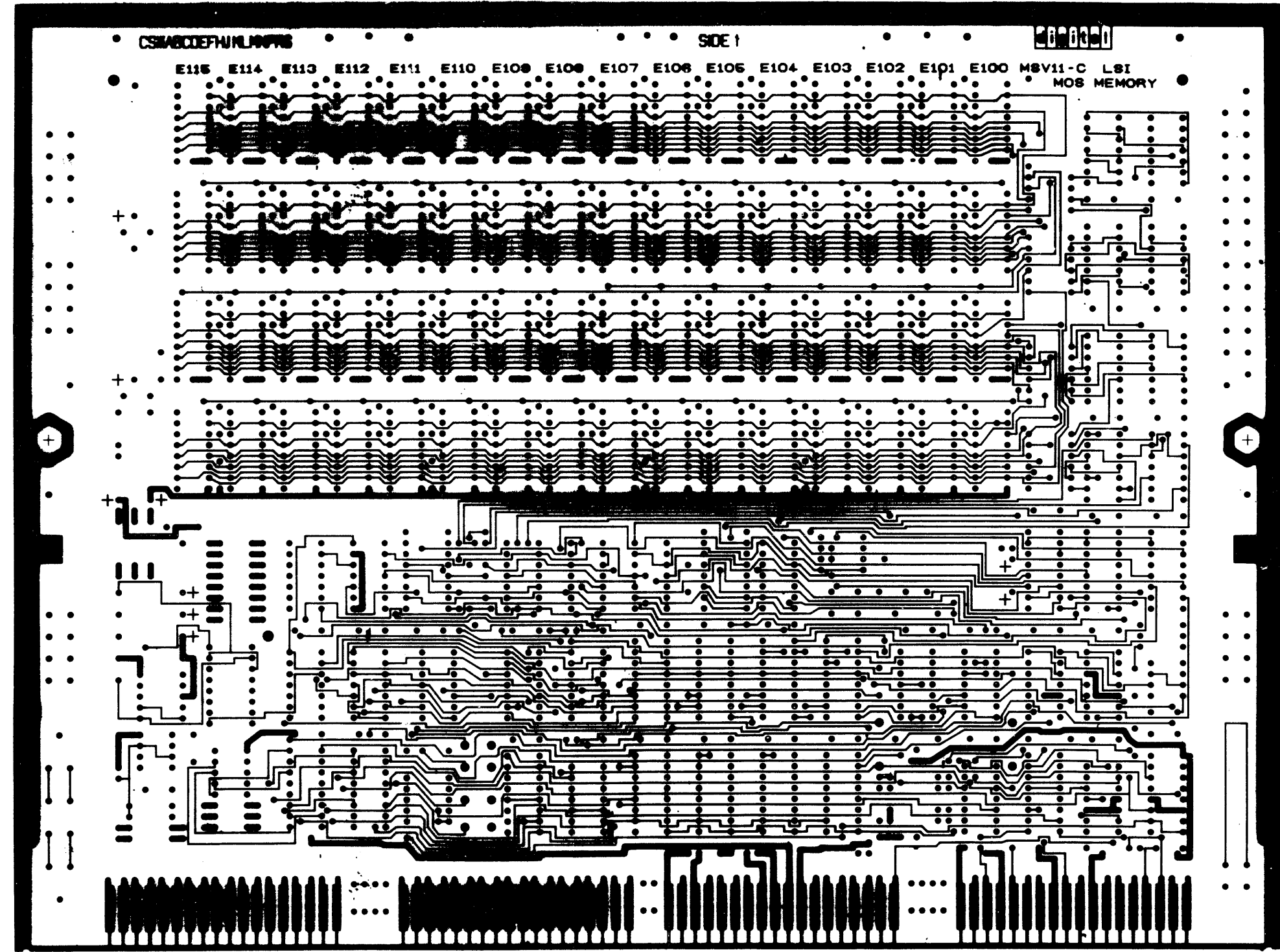
SIGNATURES	DATE	digital
DRN. P. SULLIVAN	7/1/76	
CHK'D. J. Sullivan	9/13/76	TITLE MSVII-C LSI
ENG. J. Sullivan	11/1/76	MOS MEMORY
PROD. P. Sullivan	11/1/76	SIZE CODE NUMBER
SCALE 2	0	UA M7955-0-0
SHT. 4 OF 9	0	REV
NEXT HIGHER ASSY. BDD-M7955-0	0	1 MS#B1Q32

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L1

LAYER 1

6012203C
M881032
M7955



REV.	DATE	BY
1	11/1/78	WJ

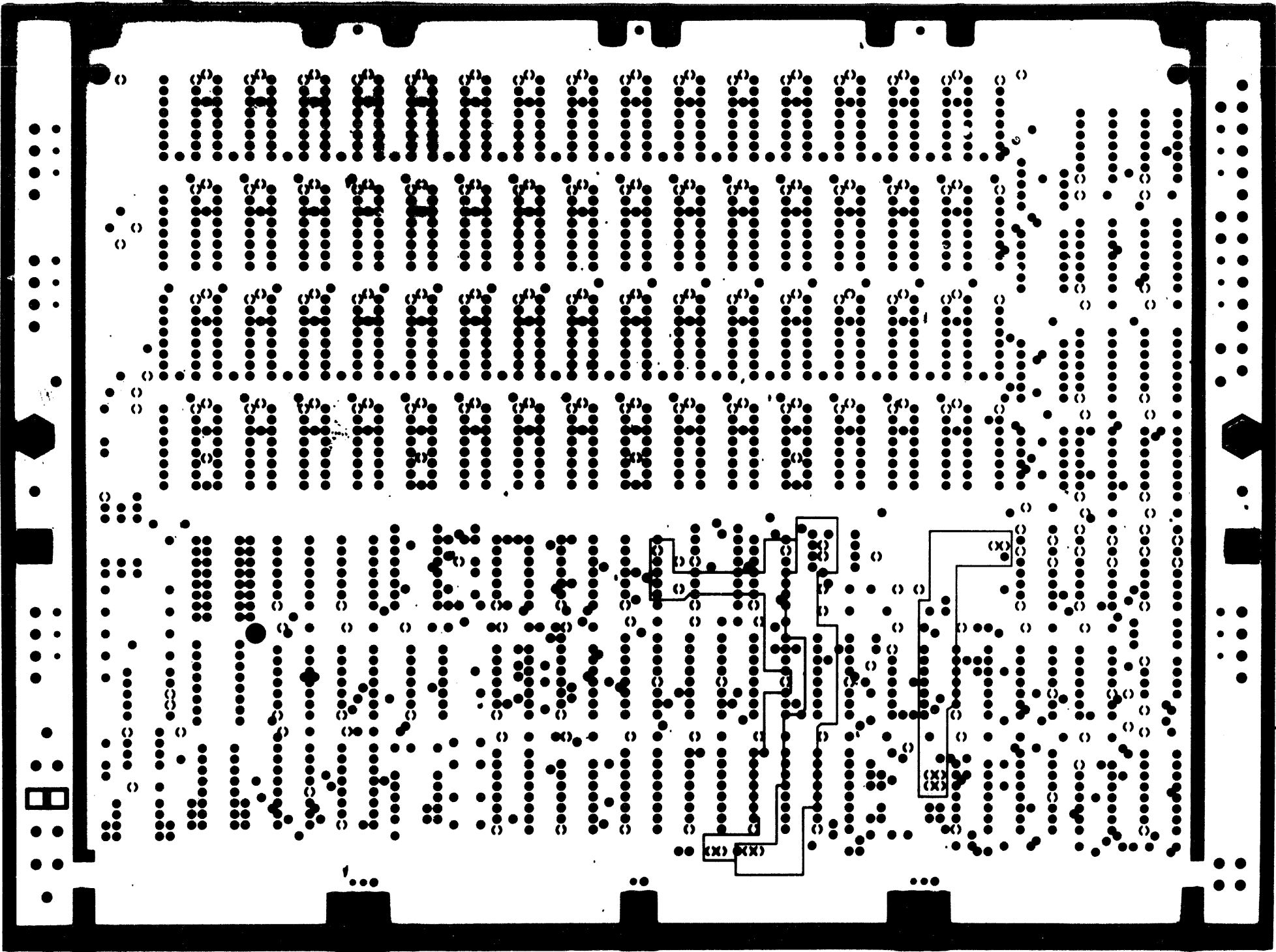
TITLE	MSV11-C	SIZE	CODE	NUMBER	REV.
LSI MOS MEMORY	D	UA	M7955-0-0	B	
SCALE	2/1	SHEET	5	OF	9

DUA M7955-0-0 B

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M7955

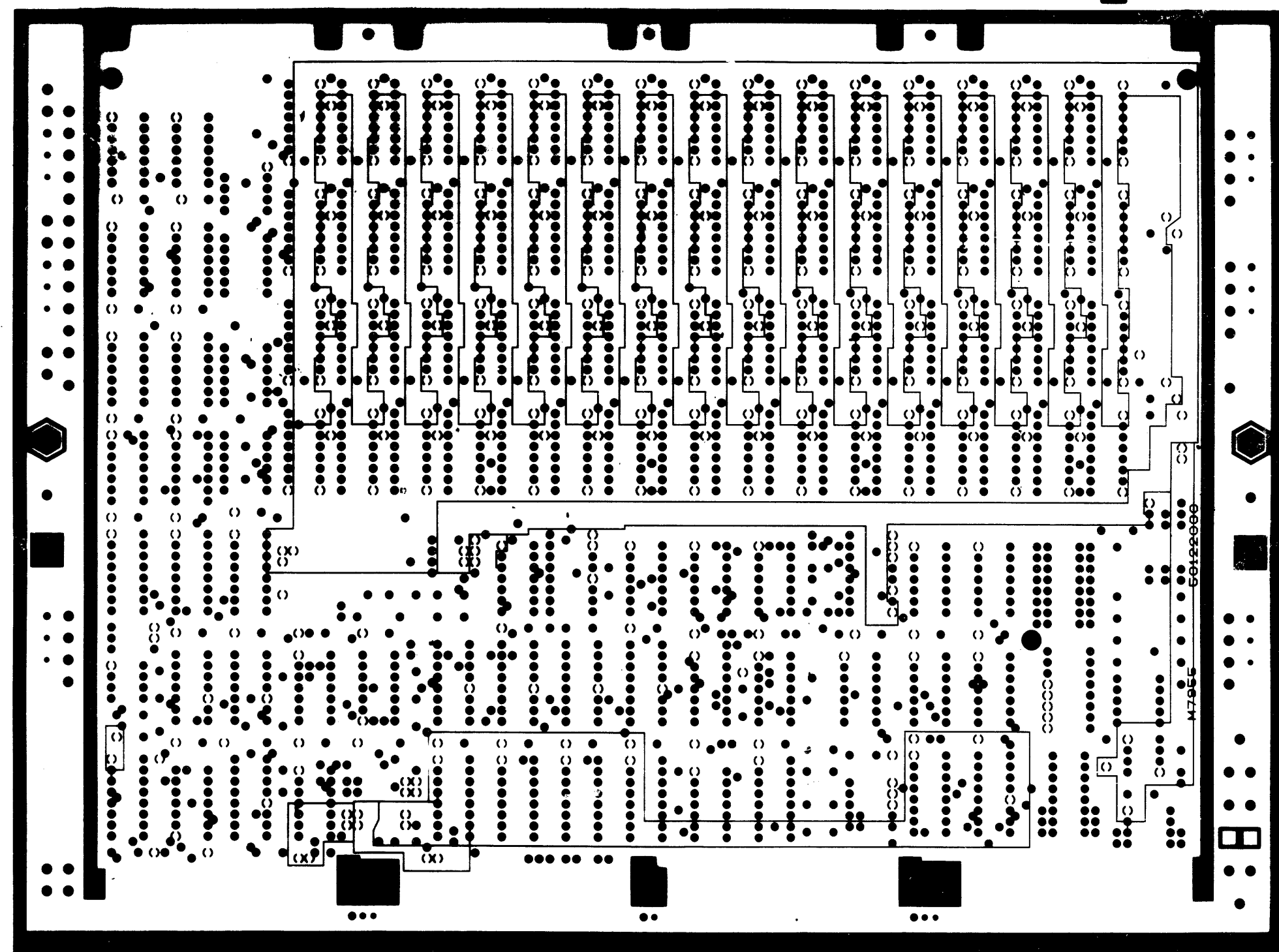
L2



REVISIONS		
CHANGE NO.	REV.	

TITLE		MSVII-C LSI	SIZE CODE	NUMBER	REV.
		MOS MEMORY	DUA	M7955-φ-φ	B
SCALE	2/1	SHEET	6	OF	9
		DIST.			

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TITLE	MSV11-C LSI MOS MEMORY	SIZE CODE	DUA	NUMBER	M7955-0-0	REV.	B
SCALE	2/1	SHEET	7	OF	9	DIST.	

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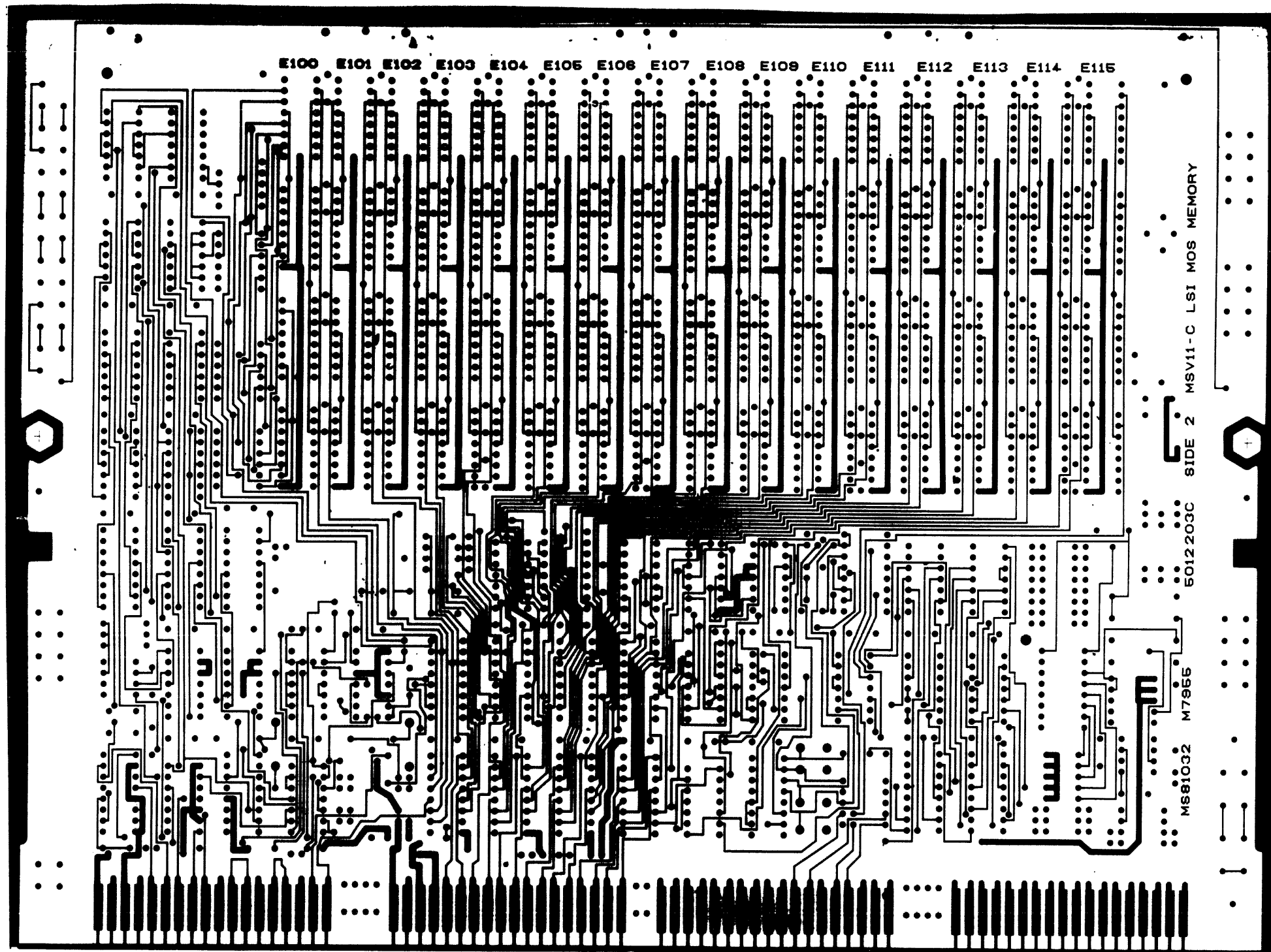
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Q

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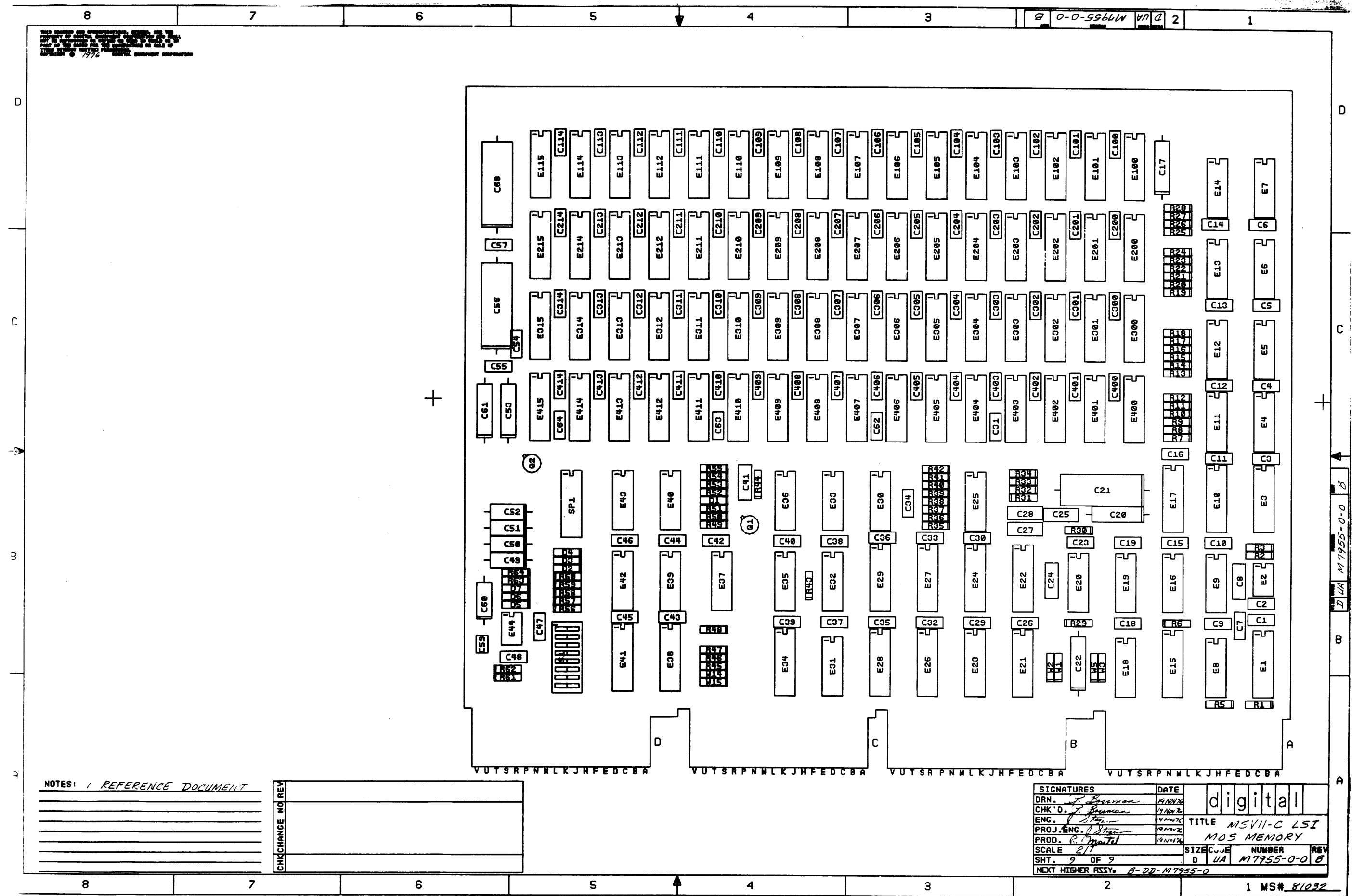
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NOTES: 1. REFERENCE DOCUMENT

CHK	CHANGE	NO	REV

SIGNATURES		DATE	digital
DRN.	J. Bosman	19 NOV 76	
CHK'D.	J. Bosman	19 NOV 76	TITLE MSVII-C LSI MOS MEMORY
ENG.	J. Bosman	19 NOV 76	
PROJ. ENG.	J. Bosman	19 NOV 76	
PROD.	R. Matel	19 NOV 76	
SCALE	2/1		SIZE CUBE NUMBER REV D UA M7955-0-0 B
SHT.	9 OF 9		
NEXT HIGHER ASSY. 8-DD-M7955-0			



DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION								NOTES:							
PARTS LIST				*M7955-AA		*M7955-AB		*M7955-AC		*M7955AD									
MADE BY S. BELTZER		CHECKED J. L. Slaby		SECTION 1															
DATE 10 OCT 76		DATE 11/18/76		ISSUED SECTION 1															
ENG J. Slaby		PROD R. Mantel																	
DATE 11/18/76		DATE 11/19/76																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7955-YA	M7955-YE	M7955-YB	M7955-YF	M7955-YG	M7955-YH	M7955-YD	M7955-YJ	REF DESIGNATION							
	D-UA-M7955-0-0		UNIT ASSY	REF	REF	REF	REF	REF	REF	REF	REF								
	D-CS-M7955-0-1		CIRCUIT SCHEMATIC	REF	REF	REF	REF	REF	REF	REF	REF								
	B-MH-M7955-0-6		MODULE HISTORY	REF	REF	REF	REF	REF	REF	REF	REF								
1	D-MD-5012203-0-0	5012203	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1								
2		10-00016	CAP 100 PF 100V 5% DM	2	2	2	2	2	2	2	2	C25,C41							
3		10-01610-01	CAP .01MF 100V DISC	28	28	28	28	28	28	28	28	C2 Thru C7,C9 Thru C16, C18,C19,C23, C30,C33,C36 Thru C40,C42,C44,C46,C48							
4		10-02627	CAP 2.2MF 20V 10% TANT	5	5	5	5	5	5	5	5	C49,C50,C51,C52,C60							
5		10-10274	CAP .22MF 50V CER	.	.	.	.	.	.	76	76	C26,C29,C31,C32,C34,C35,C43,C45,C47,C54, C55,C57,C62 Thru C64,C100 Thru C114, C200 Thru C214,C300 Thru C314,C400 Thru C414,C1							
				.	.	.	.	61	61	.	.	C26,C29,C31,C32,C34,C35,C43,C45,C47,C54, C55,C57,C62 Thru C64,C200 Thru C214, C300 Thru C314,C400 Thru C414,C1							
				46	46	46	46	.	.	.	.	C26,C29,C31,C32,C34,C35,C43,C45,C47, C54,C55,C57,C62 Thru C64,C300 Thru C314, C400 Thru C414,C1							
6		10-11740	CAP 5600PF 50V, 10% CER	1	1	1	1	1	1	1	1	C59							
7		10-12084-01	CAP 8MF 25V AL.EL.	5	5	5	5	5	5	5	5	C17,C20,C22,C53,C61							
8		10-12121	CAP 220PF 100V 1% DM	4	4	4	4	4	4	4	4	C8,C24,C27,C28							
9		10-12219	CAP 47MF 30V AL.EL.	3	3	3	3	3	3	3	3	C21, C56,C68							
E.C.O. NO.																			
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION				TITLE				ASSY NO.				SIZE		CODE		NUMBER		REV.	
1976 DIGITAL EQUIPMENT CORPORATION				MSVH-C LSI MOS MEMORY				D-UA-M7955-0-0				B		PL		M7955-0-0		B	
								SHEET 1 OF 5				INSERTION PARTS LIST DATA BASE REV 3							

EN-01140A-16-R276(325)DRB 125

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:					
PARTS LIST				*M7955-AA		*M7955-AB		*M7955-AC		*M7955-AD									
MADE BY S. BELTZER		CHECKED J. R. Bailey		SECTION 1										*M7955-AA = M7955-YA, or M7955-YE					
DATE 10 OCT 76		DATE 11/18/76												*M7955-AB = M7955-YB, or M7955-YF					
ENG J. Stetson		PROD R. Martel		ISSUED SECTION 1										*M7955-AC = M7955-YC, or M7955-YH					
DATE 11/18/76		DATE 11/19/76												*M7955-AD = M7955-YD, or M7955-YJ					
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7955-YA	M7955-YE	M7955-YB	M7955-YF	M7955-YG	M7955-YH	M7955-YD	M7955-YJ	REF DESIGNATION							
10		11-05275	DIODE D672	6	6	6	6	6	6	6	6	D1,D2,D3,D4,D5,D6							
11		11-10994	DIODE 1N751A 5.1V 5% ZENER	1	1	1	1	1	1	1	1	D7							
12		12-1164-04	SWITCH 8 SPST DIP SWITCH	1	1	1	1	1	1	1	1	S1							
13		13-00247	RES. 120, 1/4W 5% CC	2	2	2	2	2	2	2	2	R63,R64							
14		13-00295	RES. 330, 1/4W 5% CC	1	1	1	1	1	1	1	1	R51							
15		13-00365	RES. 1K, 1/4W 5% CC	5	5	5	5	5	5	5	5	R37, R42,R43,R49,R50							
16		13-00447	RES. 4.7K 1/4W 5% CC	11	11	11	11	11	11	11	11	R6,R29,R45,Thru R48, R56Thru R60							
17		13-00479	RES. 10K, 1/4W 5% CC	2	2	2	2	2	2	2	2	R1,R5							
19		13-00271	RES. 220, 1/4W 5% CC	1	1	1	1	1	1	1	1	R52							
19		13-02124	RES. 18, 1/4W 5% CC	26	26	26	26	26	26	26	26	R7,Thru R28,R30,R31,R44,R53							
20		13-02644	RES. 226, 1/4W 1% MF	1	1	1	1	1	1	1	1	R39							
21		13-02871	RES. 1.21K, 1/4W 1% MF	2	2	2	2	2	2	2	2	R32,R61							
22		13-02941	RES. 14.7K 1/4W 1% MF	2	2	2	2	2	2	2	2	R33,R54							
23		13-02956	RES. 196, 1/4W 1% MF	1	1	1	1	1	1	1	1	R41							
24		13-02957	RES. 121, 1/4W 1% MF	1	1	1	1	1	1	1	1	R35							
25		13-03044	RES. 100K, 1/4W 1% MF	1	1	1	1	1	1	1	1	R3							
26		13-03064	RES. 75.0 1/4W 1% MF	1	1	1	1	1	1	1	1	R40							
27		13-03148	RES. 31.6 1/4W 1% MF	1	1	1	1	1	1	1	1	R36							
ECO. NO. 1. M7955-AA, M7955-AB, M7955-AC, M7955-AD, M7955-YA, M7955-YB, M7955-YC, M7955-YD, M7955-YE, M7955-YF, M7955-YG, M7955-YH, M7955-YJ, M7955-AL, M7955-AM, M7955-AN, M7955-AO, M7955-AP, M7955-AQ, M7955-AR, M7955-AS, M7955-AT, M7955-AU, M7955-AV, M7955-AW, M7955-AX, M7955-AY, M7955-AZ, M7955-BA, M7955-BB, M7955-BC, M7955-BD, M7955-BE, M7955-BF, M7955-BG, M7955-BH, M7955-BJ, M7955-BK, M7955-BL, M7955-BM, M7955-BN, M7955-BO, M7955-BP, M7955-BQ, M7955-BR, M7955-BS, M7955-BT, M7955-BU, M7955-BV, M7955-BW, M7955-BX, M7955-BY, M7955-BZ, M7955-CA, M7955-CB, M7955-CC, M7955-CD, M7955-CE, M7955-CF, M7955-CG, M7955-CH, M7955-CJ, M7955-CK, M7955-CL, M7955-CM, M7955-CN, M7955-CO, M7955-CP, M7955-CQ, M7955-CR, M7955-CS, M7955-CT, M7955-CU, M7955-CV, M7955-CW, M7955-CX, M7955-CY, M7955-CZ, M7955-DA, M7955-DB, M7955-DC, M7955-DD, M7955-DE, M7955-DF, M7955-DG, M7955-DH, M7955-DJ, M7955-DK, M7955-DM, M7955-DN, M7955-DO, M7955-DP, M7955-DQ, M7955-DR, M7955-DS, M7955-DT, M7955-DU, M7955-DV, M7955-DW, M7955-DX, 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E7-01140A-16-R276(325) DRB 125				SHEET 2 OF 5				INSERTION PARTS LIST DATA BASE REV B											

PARTS LIST

SECTION
ISSUED SECTION

*N7955-AA *N7955-AB *N7955-AC *N7955-AD

*M7955-AA = M7955-YA, or M7955-YE
 *M7955-AB = M7955-YB, or M7955-YF
 *M7955-AC = M7955-YC, or M7955-YH
 *M7955-AD = M7955-YD, or M7955-YJ

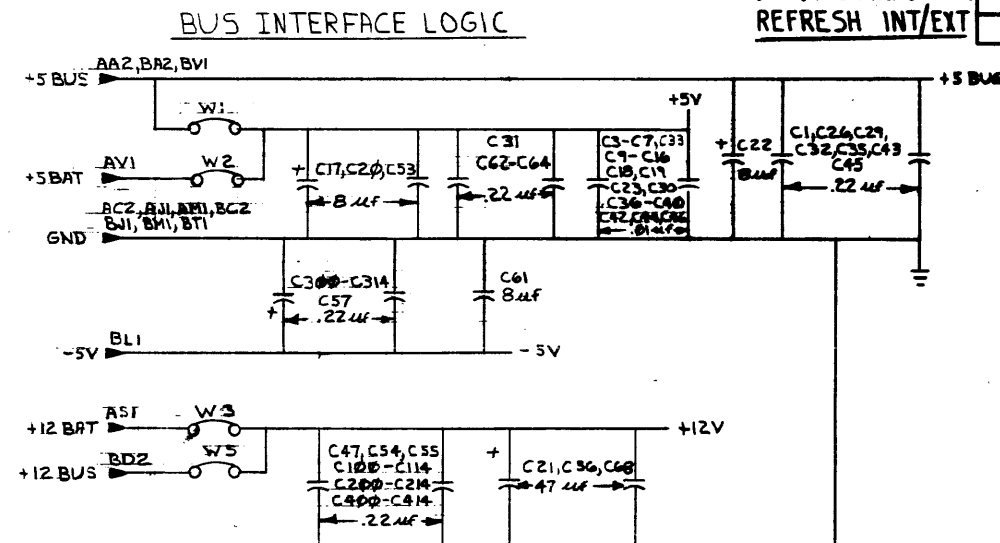
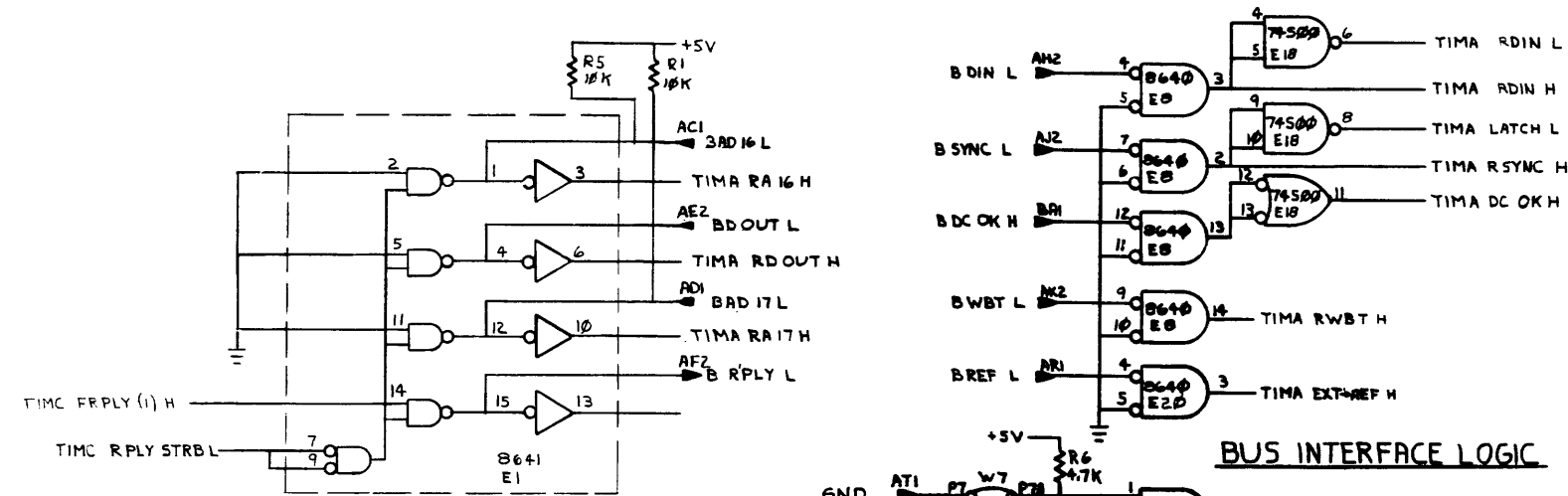
E.C.O. NO.	DESCRIPTION	UNIT	QTY	AMOUNT	TOTAL
*1795-10	1795-10-10	10	10	10	10
*1795-10	1795-10-10	10	10	10	10
*1795-10	1795-10-10	10	10	10	10
*1795-10	1795-10-10	10	10	10	10

REV.	B
------	---

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:					
PARTS LIST				*M7955-AA		*M7955-AB		*M7955-AC		*M7955-AD									
MADE BY S. BELTEER		CHECKED J. R. Dwyer		SECTION 1															
DATE 10 OCT 76		DATE 11/10/76		ISSUED SECTION 1															
ENG J. Stigman		PROD R. Martel																	
DATE 11/18/76		DATE 11/19/76																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7955-YA	M7955-YB	M7955-YC	M7955-YD	M7955-YE	M7955-YF	M7955-YG	M7955-YH	M7955-YI	M7955-YJ	REF DESIGNATION					
46		19-11579	IC 8641	5	5		5	5		5	5	5	5	E1,E21,E23,E26,E28					
47		19-11675	IC 74S138	1	1		1	1		1	1	1	1	E38					
48		19-11944	IC LM555	2	2		2	2		2	2	2	2	E2,E44					
49		19-11983	IC 74S133	1	1		1	1		1	1	1	1	E34					
50		19-12068	IC 74128	3	3		3	3		3	3	3	3	E5,E12,E13					
51		19-12388	IC 74S02	2	2		2	2		2	2	2	2	E39,E43					
52		19-12649	IC 74LS75	5	5		5	5		5	5	5	5	E15,E22,E24,E27,E29					
53		19-12746	IC 74S37	2	2		2	2		2	2	2	2	E6,E11					
54		21-12726-00	IC MK4096 16 PIN RAM	.	.		.	.		.	.	64	.	E100,thru E115,E200 thru 215,E300 thru E315,E400 thru E415					
				.	.		.	.	48	.	.	.	.	E200 thru E215, E300 thru E315,E400 thru E415					
				.	.		32	.	.	.	.	.	.	E300 thru E315,E400 thru E415					
				16	.		.	.	.	.	.	.	.	E400 thru E415					
55		21-12959-01	IC 4096 16 PIN RAM	.	.		.	.		.	.	.	64	SAME AS M7955-YD					
				.	.		.	.		.	48	.	.	SAME AS M7955-YC					
				.	.		.	32	.	.	.	.	.	SAME AS M7955-YB					
				.	16		.	.	.	.	.	.	.	SAME AS M7955-YA					
E.C.O. NO.				*M7955-AB = M7955-YA, or M7955-YE *M7955-AD = M7955-YB, or M7955-YF *M7955-AC = M7955-YC, or M7955-YH *M7955-AD = M7955-YD, or M7955-YJ															
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COPYRIGHT © 1976, DIGITAL EQUIPMENT CORPORATION				MSV112 LSI MOS MEMORY				D-0A-M7955-0-0				B		PL		M7955-0-0		B	
EN-01140A-16-R276(325)				DRB 125				SHEET 4 OF 5								INSERTION PARTS LIST DATA BASE REV B			

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION								NOTES:					
PARTS LIST				*M7955-AA		*M7955-AB		*M7955-AC		*M7955-AD		*M7955-AA = M7955-YA, or M7955-YE *M7955-AB = M7955-YB, or M7955-YF *M7955-AC = M7955-YC, or M7955-YH *M7955-AD = M7955-YD, or M7955-YJ					
MADE BY 3. BELTEER		CHECKED for R. Dancy		*M7955-YA		*M7955-YB		*M7955-YC		*M7955-YD							
DATE 10 OCT 96		DATE 11/18/76		*M7955-YE		*M7955-YF		*M7955-YG		*M7955-YH							
ENG J. S. Lippman		PROD R. Mantel		ISSUED SECTION 1													
DATE 11/18/76		DATE 11/19/76															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7955-YA	M7955-YB	M7955-YC	M7955-YD	M7955-YE	M7955-YF	M7955-YG	M7955-YH	M7955-YI	M7955-YJ	REF DESIGNATION			
56		90-06732-00	EYELET, HANDLE	8	8		8	8		8	8	9	8				
57		90-08213-00	STANDOFF SPACER	1	1		1	1		1	1	1	1				
			SCREW NYLON 6-32 x .250	1	1		1	1		1	1	1	1				
58		90-09041-01	SCREW NYLON 6-32 x .250	1	1		1	1		1	1	1	1				
59		90-09185-00	JUMPER INSULATED	6	6		6	6		6	6	6	6	W1, W3, W5, W14, W15, W2			
60		90-09149-00	WIRE WRAP PINS	12	12		12	12		12	12	12	12				
61		91-05740-55	WIRE, GRN, INSULATED #30 AWG (LENGTH AS REQUIRED), WITH 3/4" ± 1/8" OF INSULATION.)	3	3		.	.		.	.	.	.	W6, W7, W4			
				.	.		4	4		.	.	.	.	W6, W7, W4, W8			
				.	.		.	.		5	5	.	.	W6, W7, W4, W12, W8			
				.	.		.	.		.	.	6	6	W6, W7, W4, W8, W12, W16			
62		74-13826-01	HANDLE R.H.	1	1		1	1		1	1	1	1				
63		74-13826-00	HANDLE L.H.	1	1		1	1		1	1	1	1				
E.C.O. NO. 1 *M7955-AA = M7955-YA, or M7955-YE 2 *M7955-AB = M7955-YB, or M7955-YF 3 *M7955-AC = M7955-YC, or M7955-YH 4 *M7955-AD = M7955-YD, or M7955-YJ																	
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EN-01140A-16-R276(325)				DRB 125				SHEET 5 OF 5				INSERTION PARTS LIST DATA BASE REV B					

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NOTES:

1. OPTION DESIGNATION:
- | | |
|---------------------------------|----|
| M7955-AA = M7955-YA OR M7955-YF | C1 |
| M7955-AB = M7955-YB OR M7955-YF | C1 |
| M7955-AC = M7955-YC OR M7955-YH | C1 |
| M7955-AD = M7955-YD OR M7955-YJ | |
2. ALL 8641 BUS REC/DR PLUS 7483A ADDER AND 745138 DECODER ARE POWERED BY +5 BUS. ALL OTHER CIRCUITS GO TO +5V AS SELECTED BY W1/W2.
3. W1, W2, W3, W5, W14, W15 ARE MACHINE INSERTABLE JUMPERS. W4, W6, W7, W8, W12, W16 ARE WIRE WRAP JUMPERS.
4. ALL BDAL-XX CONNECTIONS ARE BI-DIRECTIONAL LINES
5. DURING MANUFACTURING TEST, GROUND MAY BE REMOVED

NOT USED REF DES

C100-C114, C200-C214, W8, W12, W16
C100-C114, C200-C214, W12, W16
C100-C114, W16



BUS GRANT CONTINUITY
JUMPERS

WG W7 REFRESH OPTIONS

IN	IN	INTERNAL REFRESH WITH NO B RPLY
IN	OUT	EXTERNAL REFRESH WITH NO B RPLY
OUT	IN	ILLEGAL
OUT	OUT	EXTERNAL REFRESH WITH B RPLY

REFRESH SELECTION

M7955 VARIATIONS

JUMPERS	-AA	-AB	-AC	-AD
W4	1	1	1	1
W8	Ø	1	1	1
W12	Ø	Ø	1	1
W16	Ø	Ø	Ø	1

ALL JUMPERS NOTED AS Ø
MUST NOT BE INSTALLED

M7955 VARIATIONS

IC PIN LOCATIONS

I.C. TYPE	GND	+5	+12
555 @ E2	1	8	
555 @ E44	1		8
7493	10	5	
7483A	12	5	
74LS75	12	5	
8640	1	8	
OTHER 16 PIN IC's	8	16	
DT-ER, 14 P N I.C.S	7	14	

STARTING ADDRESS	SWITCH SETTINGS				S1
	-1	-2	-3	-4	
0		1	1	1	1
4K	0	1	1	1	1
8K	1	0	1	1	1
12K	0	0	1	1	1
16K	1	1	0	1	1
20K	0	1	0	1	1
24K	1	0	0	1	1
28K	0	0	0	1	1
32K	1	1	1	0	1
36K	0	1	1	0	1
40K	1	0	1	0	1
44K	0	0	1	0	1
48K	1	1	0	0	1
52K	0	1	0	0	1
56K	1	0	0	0	1
60K	0	0	0	0	1
64K	1	1	1	1	0
68K	0	1	1	1	0
72K	1	0	1	1	0
76K	0	0	1	1	0
80K	1	1	0	1	0
84K	0	1	0	1	0
88K	1	0	0	1	0
92K	0	0	0	1	0
96K	1	1	1	0	0
100K	0	1	1	0	0
104K	1	0	1	0	0
108K	0	0	1	0	0
112K	1	1	0	0	0
116K	0	1	0	0	0
120K	1	0	0	0	0
124K	0	0	0	0	0

OVER LAPPING IS NOT ALLOWED IN ANY PERIPHERAL PAGE

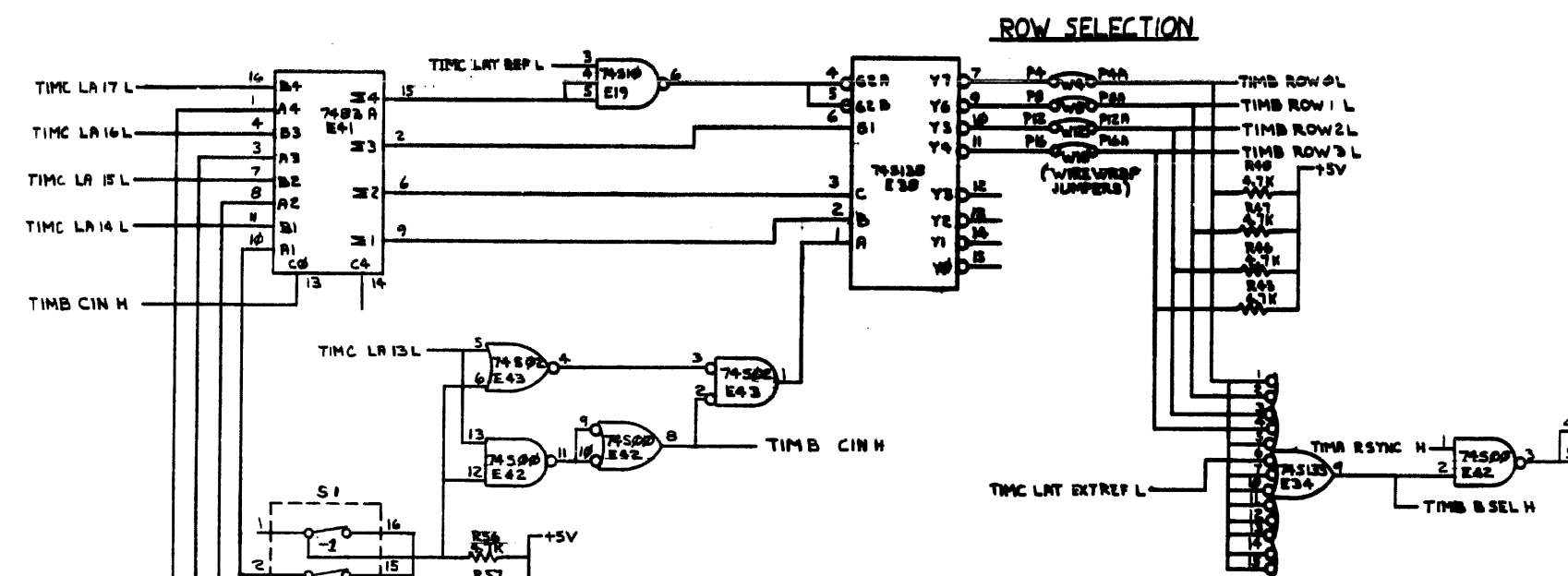
DIRN. <i>100-100000</i>	P-1276	FIRST USED ON	MSVII - C		40-00-0
CHK'D <i>100-100000</i>	<i>11/17/76</i>	TITLE	MSVII-C MOS MEMORY, LSI (TIMA)		
ENCL. <i>11/17/76</i>		SIZE	CODE	NUMBER	REV.
PROD. ENCL. <i>11/17/76</i>		D	CS	M7955-0-1	B
PROD. C. <i>11/17/76</i>		SHEET	OF	9	DIST.

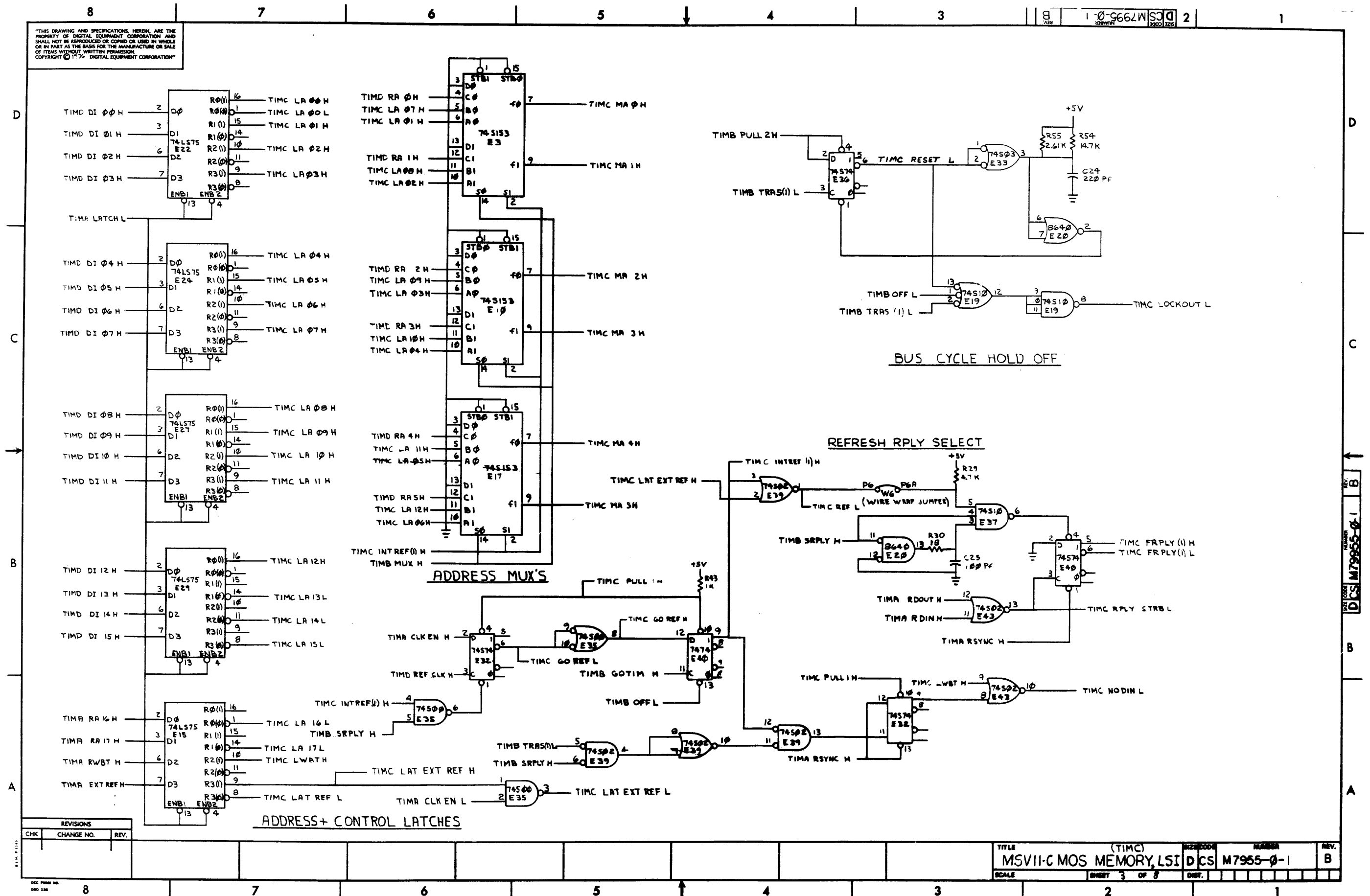
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FAILING ROW	MEMORY SIZE			
	M7955-AA(4K)	M7955-AB(8K)	M7955-AC(12K)	M7955-AD(16K)
ROW 0	NO SWAPPING POSSIBLE	P4 TO P8A	REMOVE W4 ADD JUMPER P4 TO P12A	REMOVE W4 ADD JUMPER P4 TO P16A
ROW 1		* REMOVE W8	REMOVE W8 ADD JUMPER P8 TO P12A	REMOVE W8 ADD JUMPER P8 TO P16A
ROW 2			* REMOVE W12	REMOVE W12 ADD JUMPER P12 TO P16A
ROW 3				* REMOVE W16

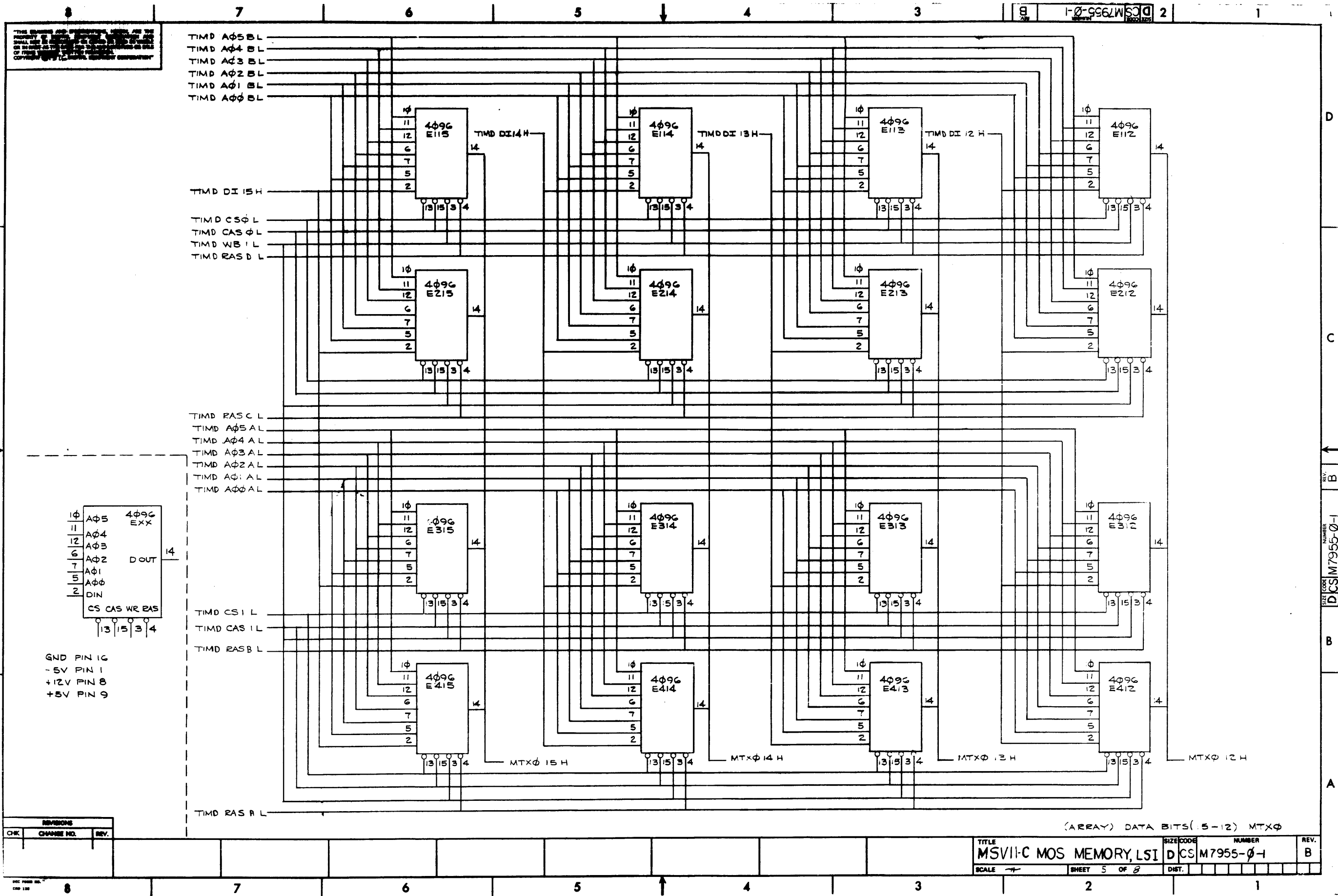
1. DETERMINE MEMORY SIZE & REMOVE UPPER 4K ROW JUMPER. (INDICATED BY *)
2. LOCATE FAILING ROW, REMOVE SPECIFIED ROW JUMPER, ADD SWAPPING JUMPER. IF FAILING ROW IS UPPER ADDRESS SPACE ROW, THERE IS NO SWAPPING JUMPER
3. THIS RECONFIGURED MEMORY BLOCK STILL HAS THE SAME STARTING ADDRESS AS BEFORE. IT OCCUPIES 4K LESS ADDRESS SPACE THAN BEFORE. RECONFIGURE STARTING ADDRESSES OF MEMORIES ABOVE THIS ONE IF NECESSARY SO THERE WILL BE CONTIGUOUS ADDRESS SPACE.

ROW SWAPPING MATRIX



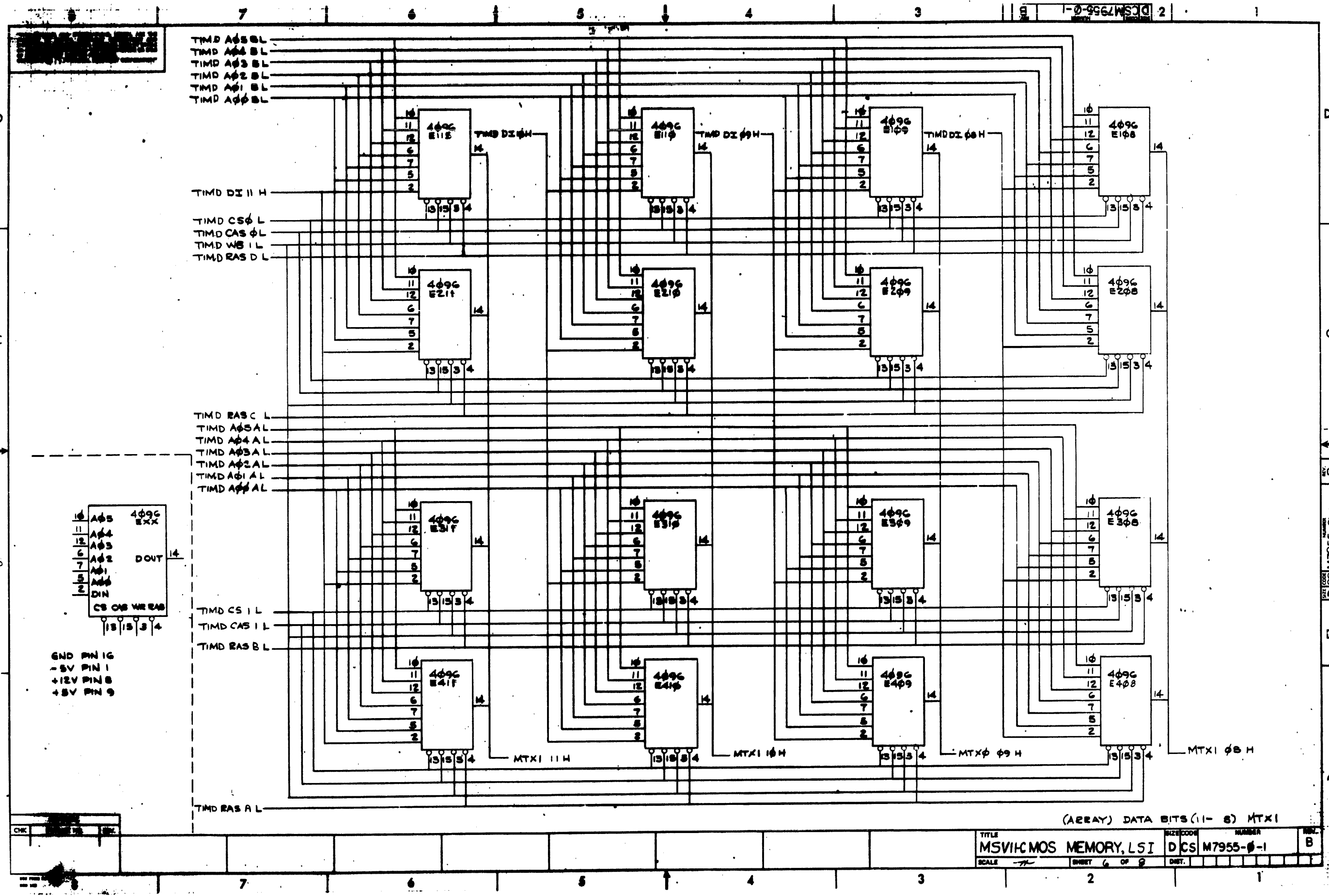




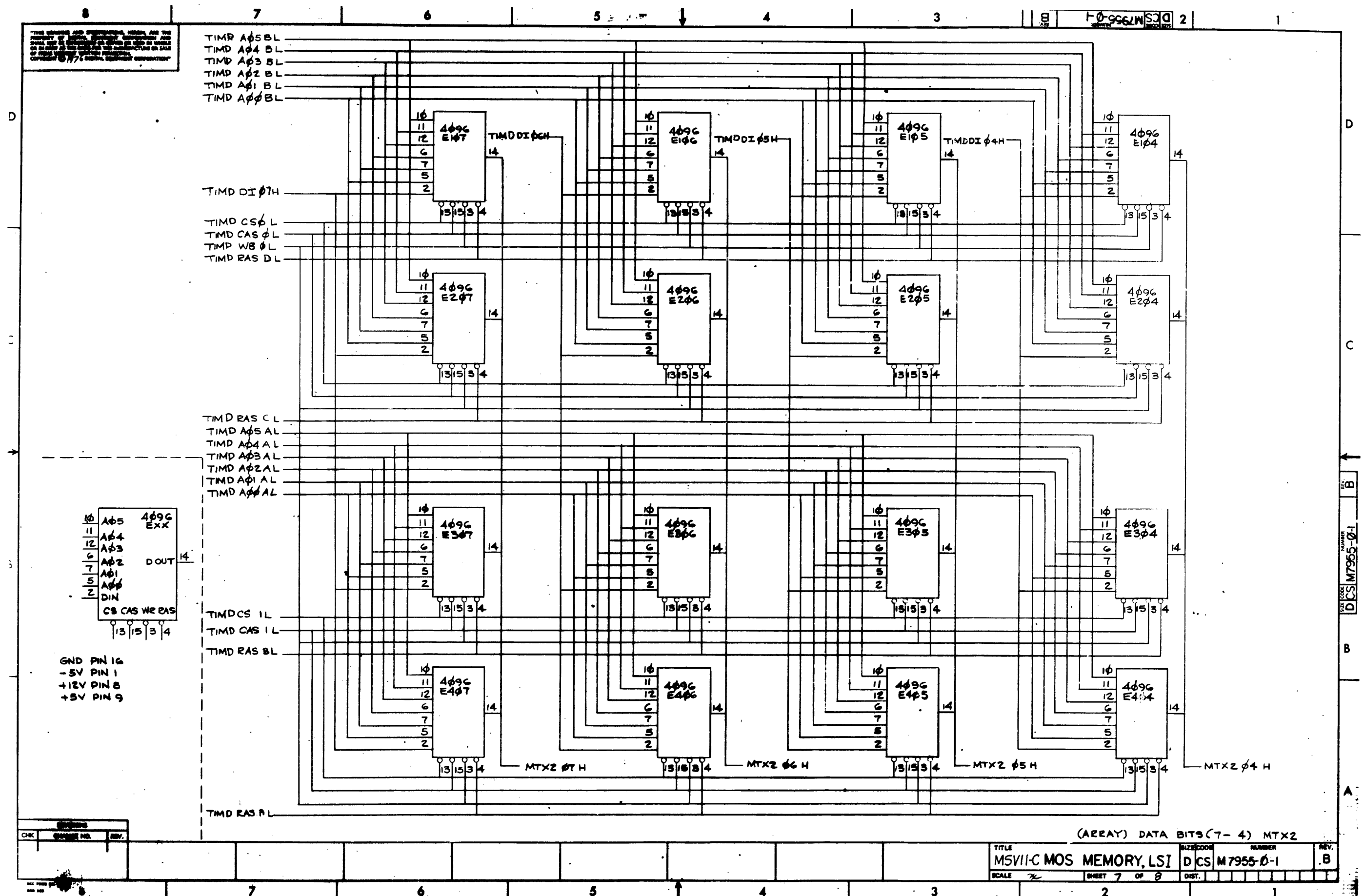


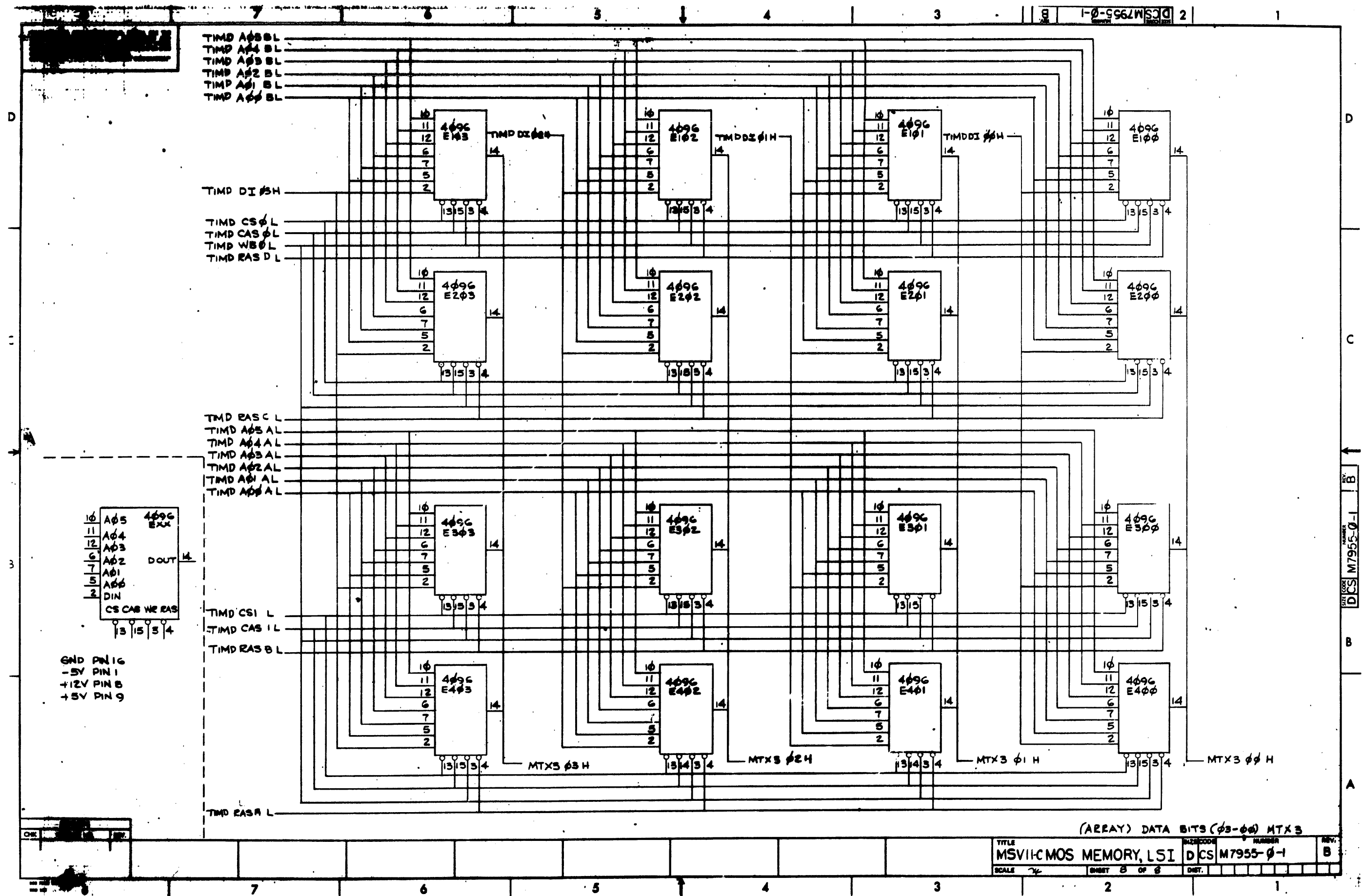
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
MSV11-C MOS MEMORY, LSI		D	CS M7955-0-1	B
SCALE	SHEET	5	OF	8
DST.				



TITLE		MSVHC MOS MEMORY, LSI	SIZE CODE	D CS	NUMBER	M7955-0-1	REL.	B
SCALE	1:1	SHEET	6	OF	8	DIST.		





8

7

6

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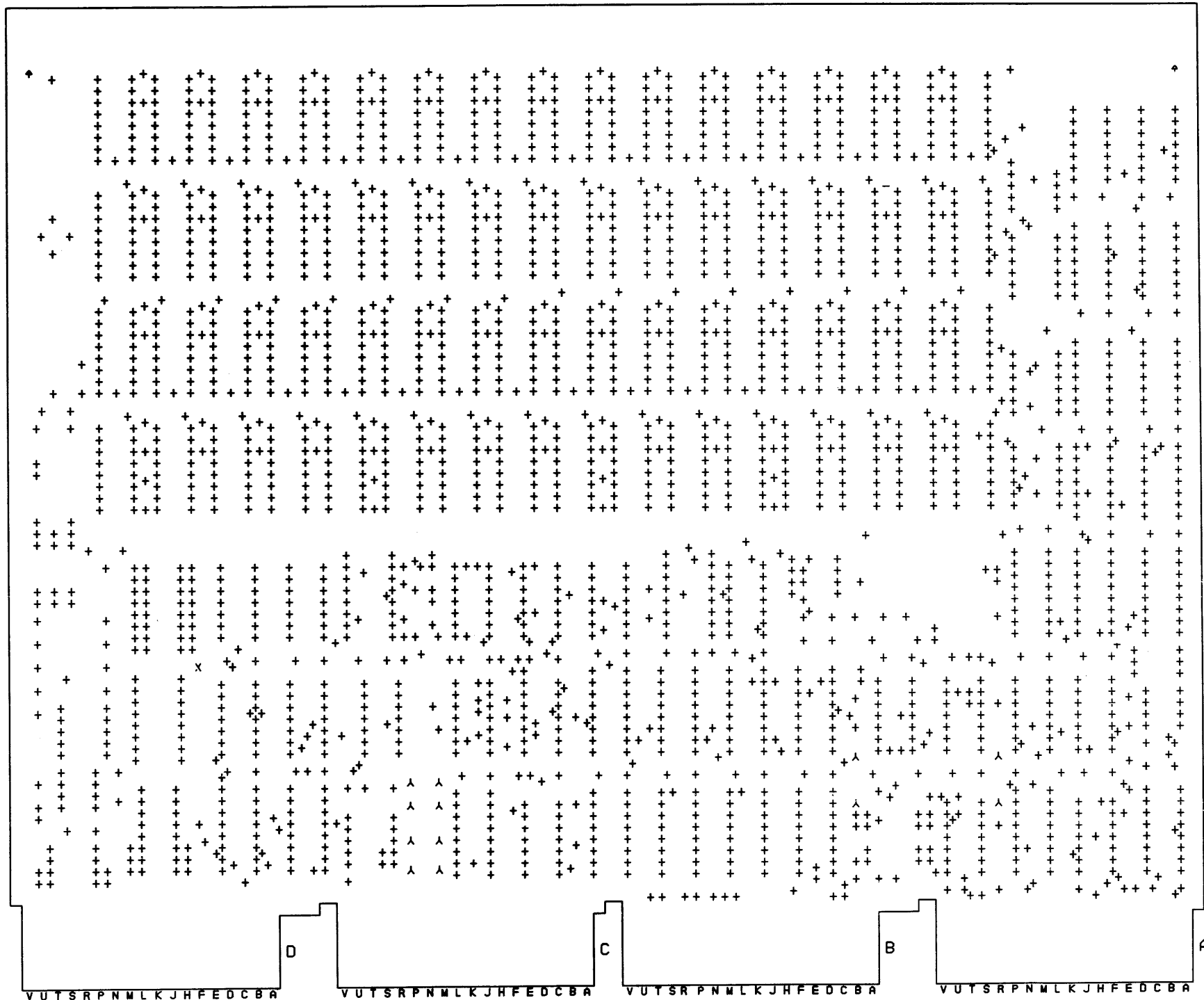
DMD 5012203-00 B

2

1



COMPONENT SIDE VIEW



NOTES:

CHG CHANGE NO REV

HOLE DATA											
SYMBOL	+	A	X	+	Z	M	A	Q	+	*	
FIN HOLE SIZE	.038	.032	.156	.128							
PLATED	X	X	X	X							
NON PLATED											
QTY.	2464	12	1	2							
○-OFF GRD HLE											
DRILL SIZE											

BOARD FABRICATION INFORMATION	
PANEL SIZE	8.54 X 11.75
PANEL DATA DWG.	MULTILAYER
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	4
COPPER THICKNESS	1 OZ.
PTH. X PRINT AND ETCH	
MODULE INSERTED 100 TIMES OR MORE?	N/A

SIGNATURES		DATE
DRN. R. SULLIVAN		9-2-76
CHK'D. S. Foreman		10-Sep-76
ENG. J. Egan		9/10/76
PROJ. ENG. P. Smith		9/10/76
PROD. S. Bunn		9/10/76
SCALE	2 : 1	
SHT.	1 OF 5	
NEXT HIGHER ASSY.	D-UA-M7955-0-0	ETCH REV. C

digital	TITLE	DRILL AND ETCH DRAWING
SIZE CODE	NUMBER	REV
DMD 5012203-00 B		

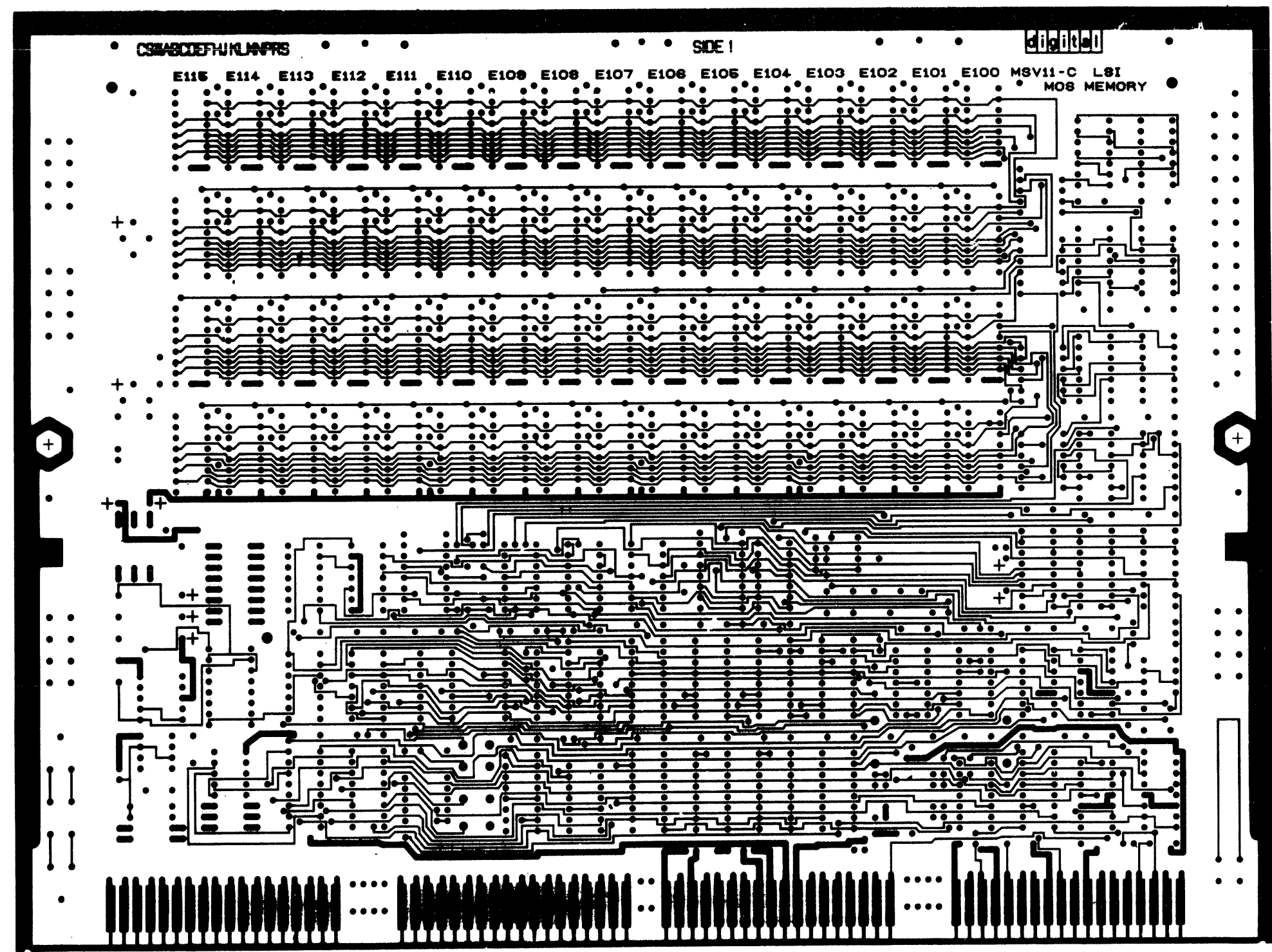
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L1

LAYER 1

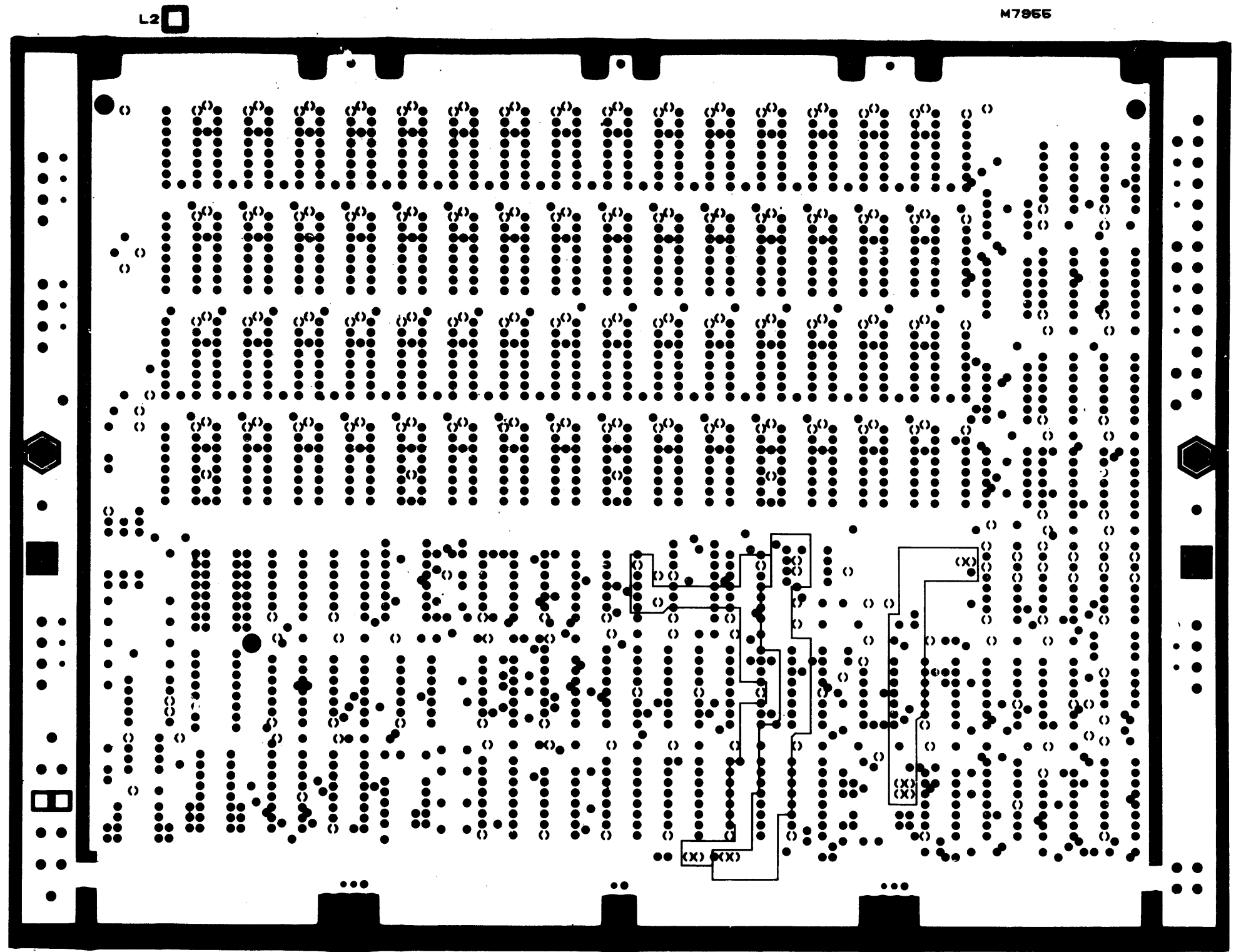
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REVISIONS		
CHK	CHANGE NO.	REV

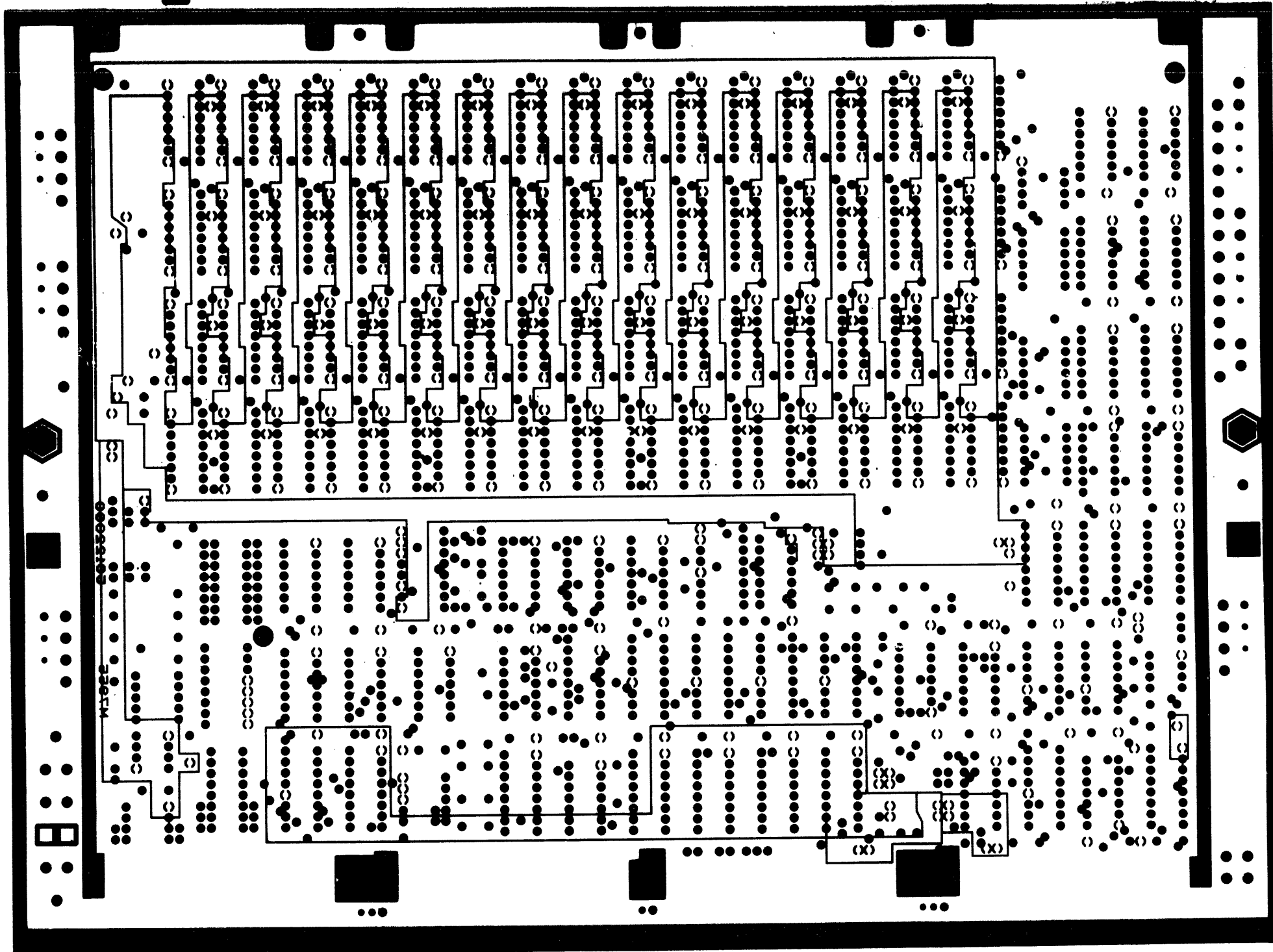
TITLE		SIZE	CODE	NUMBER		REV.
MSV11-C LSI MOS MEMORY		D	MD	5012203-0-0	0	0
SCALE		2/1	SHEET 2 OF 5		DIST.	

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REVISIONS		
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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
MSVII-C LSI MOS MEMORY		D MD	5012203-0-0	B
SCALE	2/1	SHEET	4 OF 5	DIST.

D
C
B
A

D MD 5012203-0-0 B

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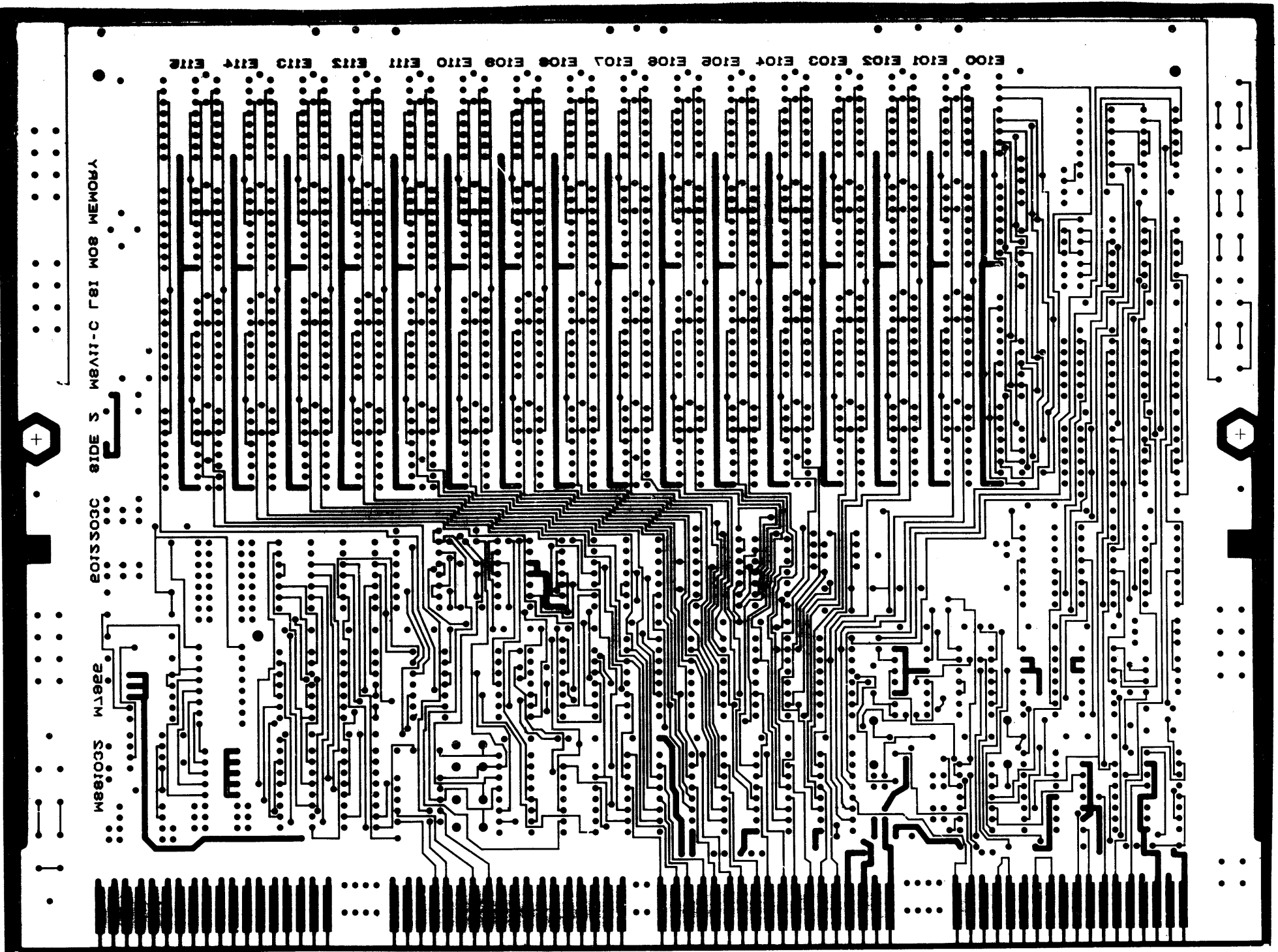
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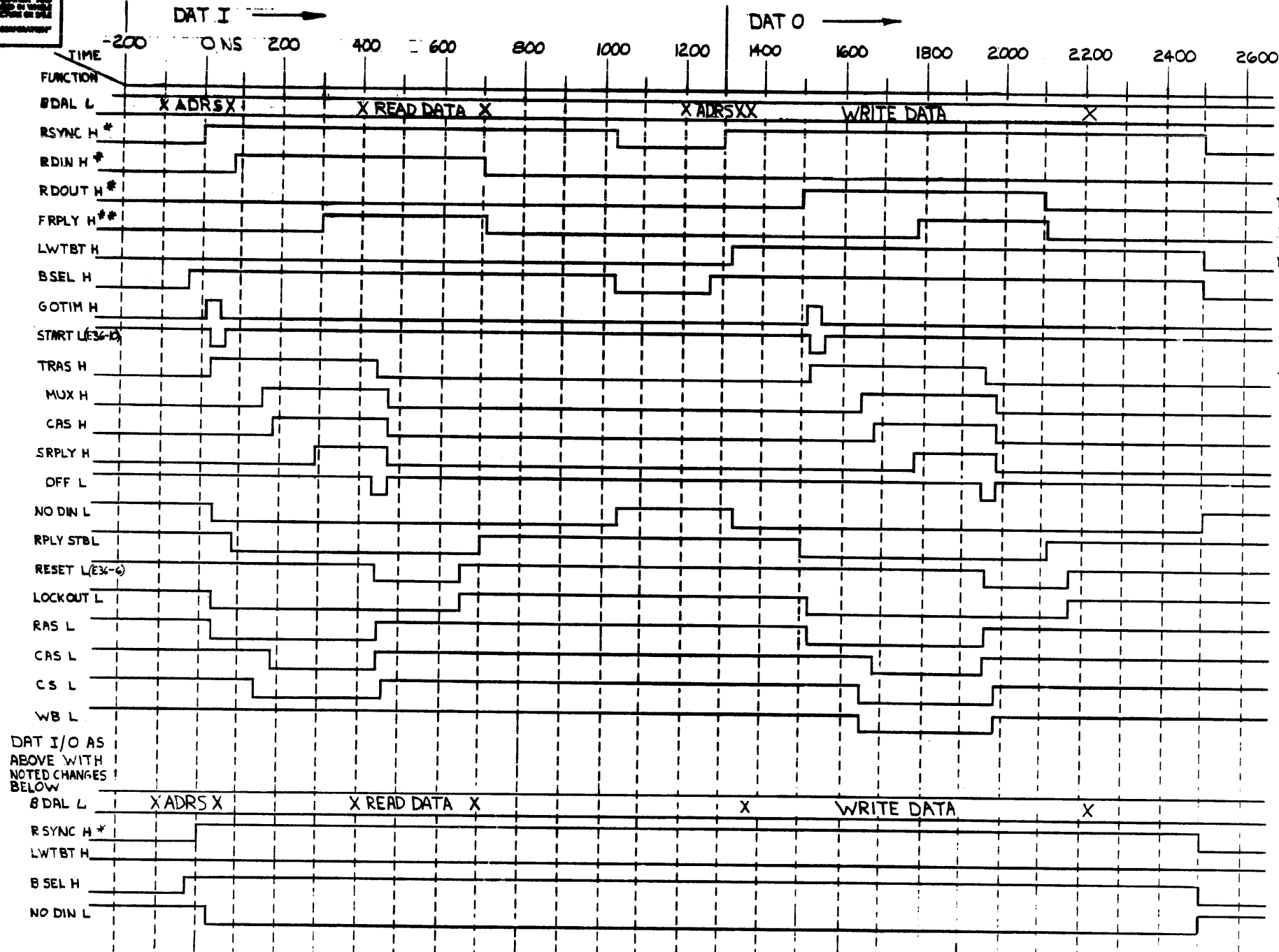
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY		D MD	5012203-0-0	B
SCALE	2/1	SHEET	5 OF 5	DIST.

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* THE WIDTH OF R SYNC, R DIN, AND R DOUT IS DETERMINED BY THE MASTER DEVICE.
** IF R DIN COMES AFTER FRPLY H IS SET, FRPLY M AND THE READ DATA WILL WAIT FOR THE R DIN.

B DAL L: BUFFERED BIDIRECTIONAL ADDRESS AND DATA BUS
R SYNC H: BUFFERED BUS SIGNAL FROM MASTER THAT INITIATES BUS CYCLE AND LATCHES ADDRESS
R DIN H: BUFFERED BUS SIGNAL FROM MASTER THAT ENABLES DATA TO BE PUT ON THE BUS.
R DOUT H: BUFFERED BUS SIGNAL FROM MASTER THAT INDICATES WRITE DATA IS ON THE BUS & STARTS DAT O.
FRPLY H: FLOP DRIVING BRPLY L BUS SIGNAL AS A REPLY TO DIN & DONT.
LWTBT H: LATCHED SIGNAL SAYING THIS IS A DATO CYCLE.
BSEL H: SIGNAL SAYING THAT I AM THE DEVICE REQUESTED BY THE MASTER.
GOTIM H: SIGNAL THAT STARTS MEMORY TIMING.
START L: START PULSE FOR MEMORY TIMING AFTER REFRESH SYNCHRONIZATION.
TRAS H: SIGNAL USED FOR RAS AND TO START LOCKOUT.
MUX H: SIGNAL USED TO SWITCH AD RS MUX AND SEND CS & WB
CAS H: SIGNAL USED FOR CAS.
SRPLY H: SIGNAL USED TO SET FRPLY H FLOP
OFF L: SIGNAL USED TO RESET MEMORY TIMING
NO DIN L: SIGNAL USED TO PREVENT MULTIPLE CYCLES AND TO WAIT FOR R DOUT H IN DATO CYCLES
RPLY STBL: RESET FOR FRPLY H FLOP
RESET L: EXTENDS LOCKOUT SIGNAL TO ENSURE PROPER MEMORY TIMING.
LOCKOUT L: SIGNAL TO PREVENT STARTING ANOTHER CYCLE TILL COMPLETING THE PRESENT CYCLE
RAS L: MEMORY CHIP ROW ADDRESS STROBE.
CAS L: MEMORY CHIP COLUMN ADDRESS STROBE
CS L: MEMORY CHIP SELECT LINE
WB L: MEMORY CHIP WRITE ENABLE

DRN. John C. Thigle	7-20-66	FIRST USED ON	MSVII-C
CHK'D. R. L. Thigle	11/1/76	TITLE	MSVII-C TIMING
ENG. J. B. Thigle	11/1/76	PROJ. ENG. J. B. Thigle	11/1/76
PROD. J. B. Thigle	11/1/76	NEXT HIGHER ASSY.	
B-DD-MSVII-C	SIZE CODE	NUMBER	REV.
SCALE	D	TD	M7955-0-2
SHEET	OF	DIST.	

FIELD MAINTENANCE PRINT SET

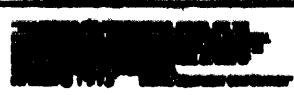
TABLE OF CONTENTS

B-TC-DLV11-Ø-3
A-PL-DLV11-Ø-Ø
D-CS-M794Ø-Ø-1
A-PL-DLV11-Ø-2

DLVII Field Maintenance Print Set

Digital Equipment Corporation
PRINT SET ORDER NO.
MP00055

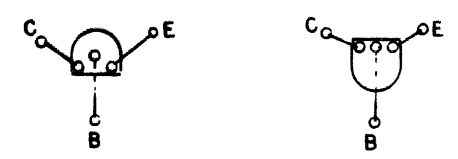
AR
EN-01124-16-N675-(327)



NOTES:

1. THIS MODULE PLUS IS COMPATIBLE WITH:
A. DECIMAL 777 CABLE.
B. DECIMAL MODERN CABLE.
2. THE POLARITY REVERSES WHEN USING THE
50 MM CURRENT LOOP TRANSMITTER OR RECEIVER
IN THE PASSIVE CONFIGURATION. WHEN USING
THE DECIMAL CABLE MUST BE TAKEN TO SWAP
THE APPROPRIATE WIRES.

3. A. INSERT WITH ACCORDANCE TO VENDOR PACKAGE.
VENDOR NAME:
GPSA(GE) MOTOROLA,ITT,NATIONAL TRANSISTOR,
NATIONAL SEMI CONDUCTOR.



TOP VIEW

B. GPSA (VENDOR GE) IS THE ONLY VENDOR
PACKAGE MOUNTED WITH THE FLAT REVERSED.

4. PARTS IN THE FOLLOWING ALTERNATE PARTS LIST
MAY BE USED IN PLACE OF THE CORRESPONDING
PRIME PART WHEN NECESSARY.

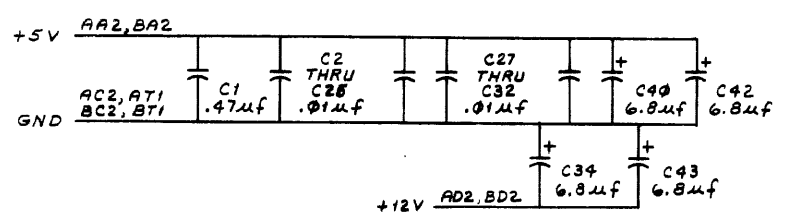
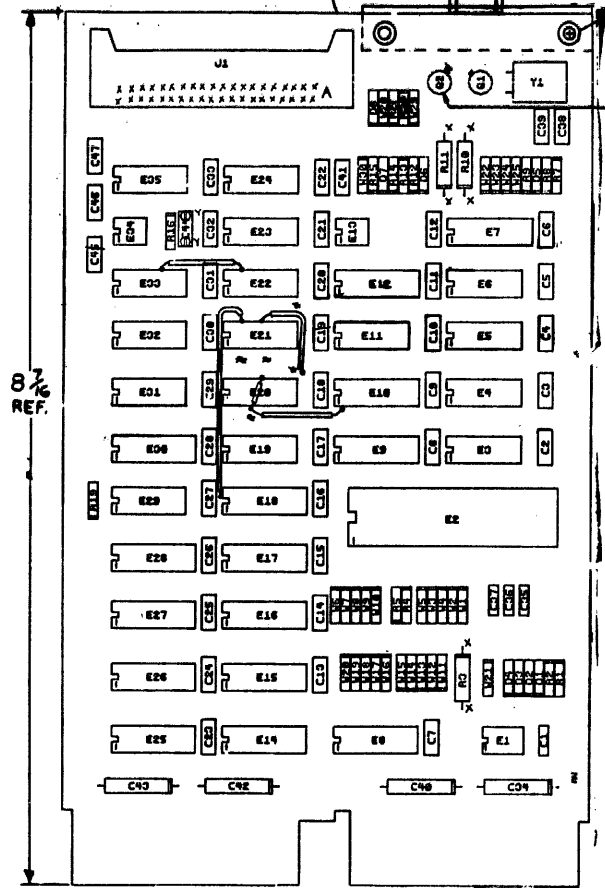
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
31	C27	THRU 25,27 THRU 33	CAPACITOR .01 uF 100V+80-20%	1001610-01	8A

5. USE ADHESIVE (ITEM 60) WHERE NECESSARY TO
SECURE REWORK WIRES.
6. THE FOLLOWING JUMPER REFERENCE DESIGNATIONS
ARE NOT USED: W26, W27 (REPLACED BY RESISTORS
R20, R21 PER ECO # M7940-00002).
7. THE FOLLOWING JUMPERS MAY BE INSERTED BY
MANUFACTURING IN ORDER TO TEST AT 9600 BAUD, BUT
WILL BE REMOVED BEFORE FINAL TEST AT 110
BAUD AND SHIPMENT TO CUSTOMER: W2, W22 THRU
W24, W30.

I.C. DEC MH0026C	3			6
I.C. DEC HSUART	3	1	2	
I.C. DEC 1488			1	14
I.C. DEC 7493	10	5		
I.C. DEC 74175	8	16		
I.C. DEC 74157	8	16		
I.C. DEC 74155	8	16		
I.C. DEC 8837	8	16		
I.C. DEC 8641	8	16		
I.C. DEC 8136	8	16		
IS TYPE	800	+5V	-12V	+12V

800 AND 801 ARE USUALLY FOR 7 AND 14
RESPECTIVELY EXCEPTING ARE SHOWN ABOVE

IS PIN LOCATIONS



8	W2, W7, W10, W16, W20, W21, W26, W27	INSULATED JUMPER WIRE	9009105	55
1		HANDLE, FLIP CHIP, MAGENTA	9008337-0	56
2		EYELET	9008732	57
6*		WIRE 30 AWG BUSS (RETROFIT)	9105740-55	58
2	R20, R21	RESISTOR 180 OHM 1/4W 5%	1301322	59
A/R		ADHESIVE	4901230	60

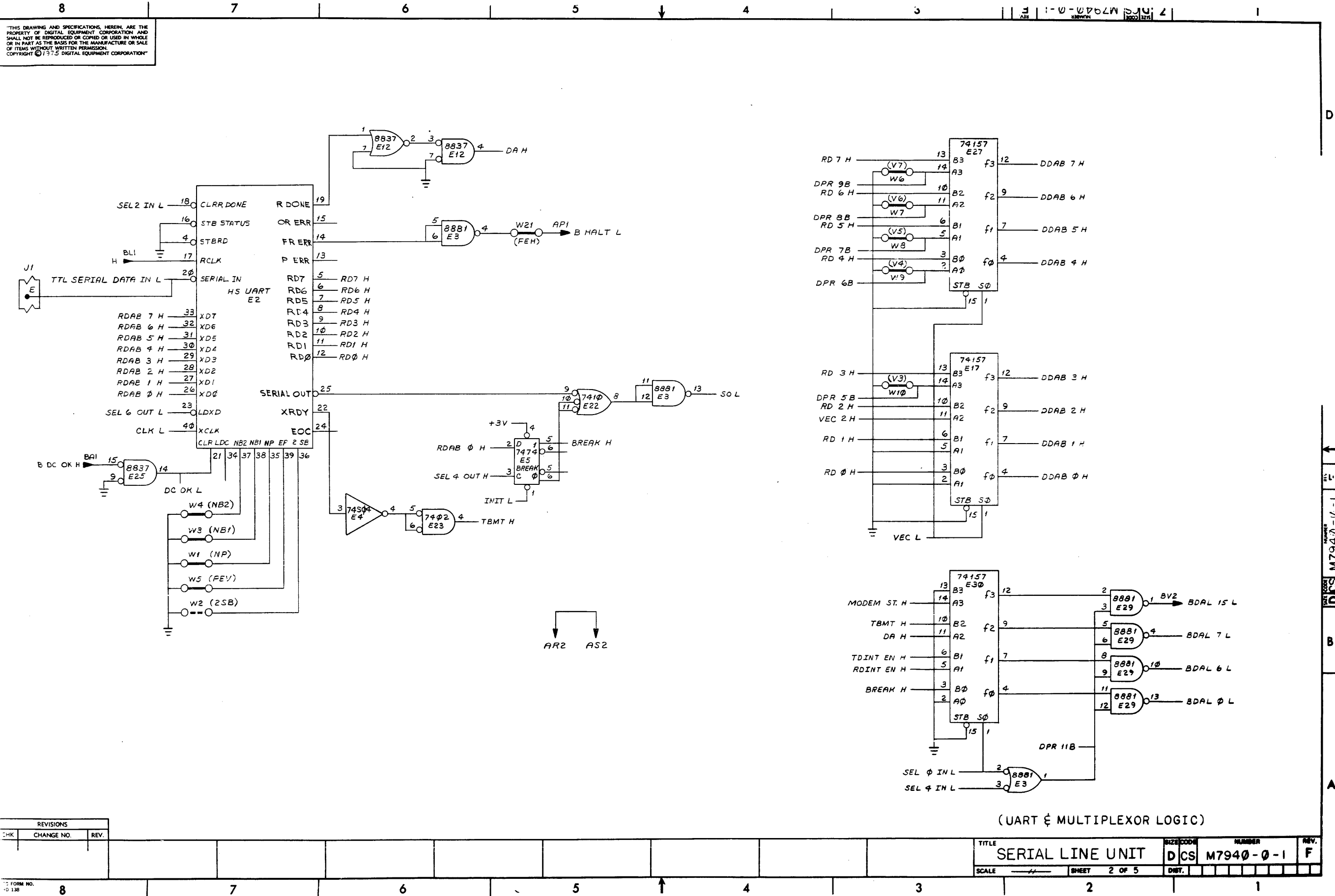
SEE NOTE 3

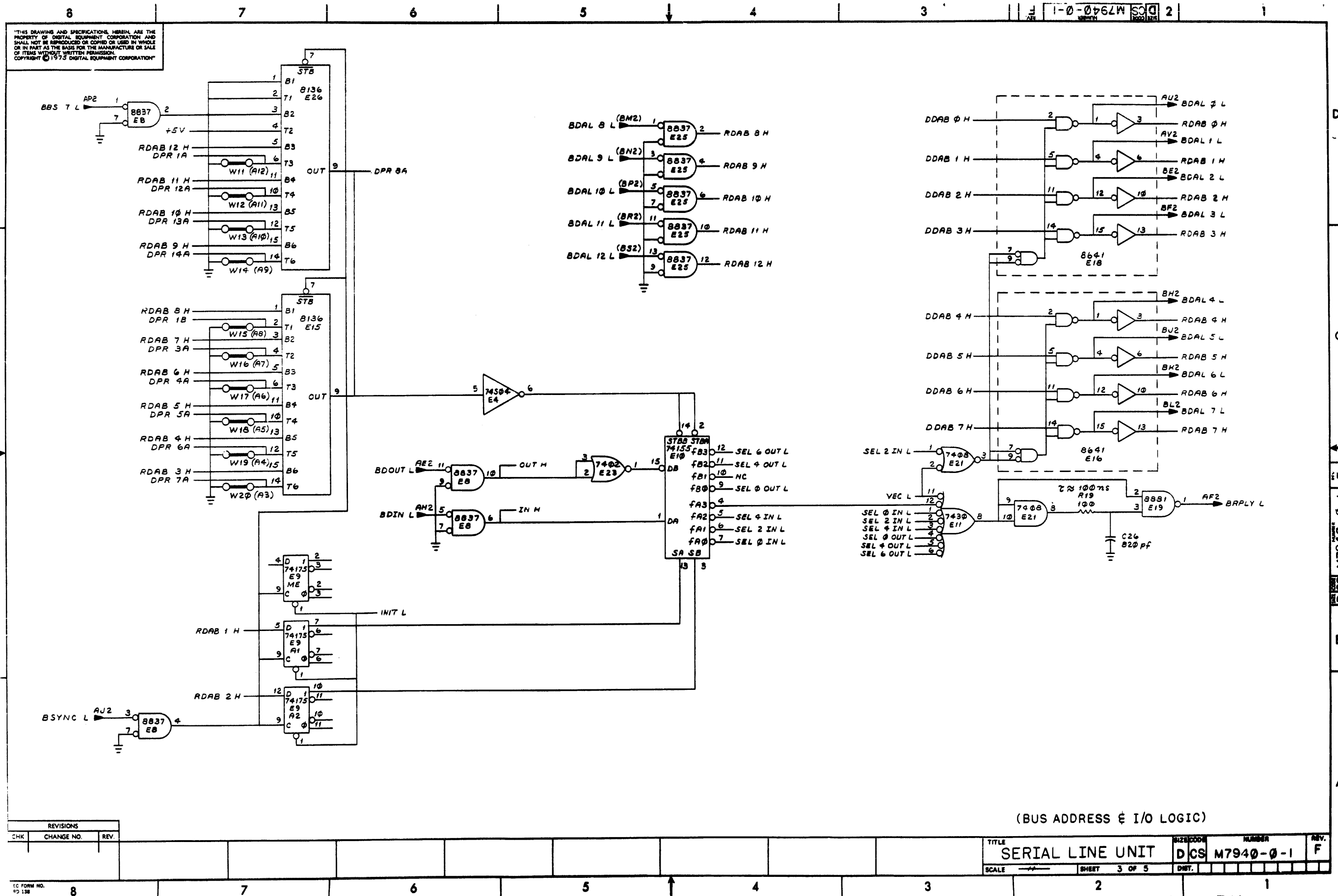
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REF		Z-Y COORDINATE HOLE LOCATION	K-CD-M7940-B-4	1
REF		ADDER/DRILLING HOLE LAYOUT	D-AH-M7940-B-5	2
REF		MODULE ECO HISTORY	D-MH-M7940-B-6	3
1		ETCHED CIRCUIT BOARD	5011950	4
2	C30, C36	CAPACITOR, 330pF, 100V, 5%	1000009	5
4	C41, C45, C46, C47	CAPACITOR, 330pF, 100V, 5%	1000023	6
1	C28	CAPACITOR, 820pF, 100V, 5%	1000027	7
31	C2 THRU C25, C27 THRU C33	CAPACITOR, .01uF, 50V, +80-20	1001810-00	8
1	C44	CAPACITOR, 5000 PF, 100V, 20%	1001785	9
4	C34, C40, C42, C43	CAPACITOR, 0.0uF, 35V, 10%	1009308	10
4	C35, C36, C37, C1	CAPACITOR, .47uF, 25V, 20%	1010279	11
4	D1, D2, D3, D5	DIODE, 0684	1100114	12
2	D6, D7	DIODE, 1N4004	1105796	13
1	D4	DIODE, 1N759A	1110836	14
1	D8	DIODE, MCL1391	1105610	15
1	J1	CONNECTOR, 40 PIN, R.ANG. HEADER 3M	1209441-02	16
2	R4, R5	RESISTOR, 47 OHM, 1/4W, 5%	1300202	17
1	R13	RESISTOR, 68 OHM, 1/4W, 5%	1300219	18
1	R3	RESISTOR, 120 OHM, 1/2W, 5%	1300243	19
1	R15	RESISTOR, 150 OHM, 1/4W, 5%	1300250	20
2	R7, R14	RESISTOR, 220 OHM, 1/4W, 5%	1300271	21
1	R8	RESISTOR, 330 OHM, 1/4W, 5%	1300295	22
2	R10, R11	RESISTOR, 270 OHM, 1/2W, 5%	1300285	23
2	R1, R2	RESISTOR, 470 OHM, 1/4W, 5%	1300316	24
1	R16	RESISTOR, 2.4K OHM, 1/4W, 5%	1303177	25
1	R12	RESISTOR, 88K OHM, 1/4W, 5%	1301327	26
1	R19	RESISTOR, 100 OHM, 1/4W, 5%	1300229	27
1	R9	RESISTOR, 10M, 1/4W	1302888	28
2	E14, E20	RESISTOR NETWORK, 330/880 OHM	1311003-02	29
1	Q1	TRANSISTOR, DEC 6534D	1503409	30
1	Q2	TRANSISTOR, NXA55	1510706	31
1	Y1	XTAL, 2.4576 MHZ	1812396	32
3	E5, E31, E33	I.C. DEC 7474	1905547	33
1	E22	I.C. DEC 7410	1905576	34
1	E11	I.C. DEC 7430	1905578	35
1	E23	I.C. DEC 7402	1909004	36
1	E8	I.C. DEC 7493	1908054	37
1	E4	I.C. DEC 74504	1910534	38
3	E3, E19, E29	I.C. DEC 8881	1909705	39
2	E21, E32	I.C. DEC 7408	1910155	40
1	E24	I.C. DEC 1488	1910322	41
1	E35	I.C. DEC 1489	1910323	42
1	E20	I.C. DEC 74574	1910544	43
1	E9	I.C. DEC 74175	1910851	44
3	E17, E27, E30	I.C. DEC 74157	1910855	45
3	E8, E12, E25	I.C. DEC 8837	1911116	46
2	E16, E18	I.C. DEC 8641	1911579	47
2	E13, E34	I.C. DEC 4N28-01	1911998-01	48
1	E1	I.C. DEC MH0026C	1912098	49
2	E15, E26	I.C. DEC 8136	1912395	50
1	E10	I.C. DEC 74155	1910856	51
1	E7	I.C. DEC 34702	2112622-00	52
1	E2	I.C. DEC HSUART (40 PIN)	2111450	53
2	TP1, TP2	SPLIT LUG	9008735	54

FIRST USED ON OPTION MODEL
LSI II

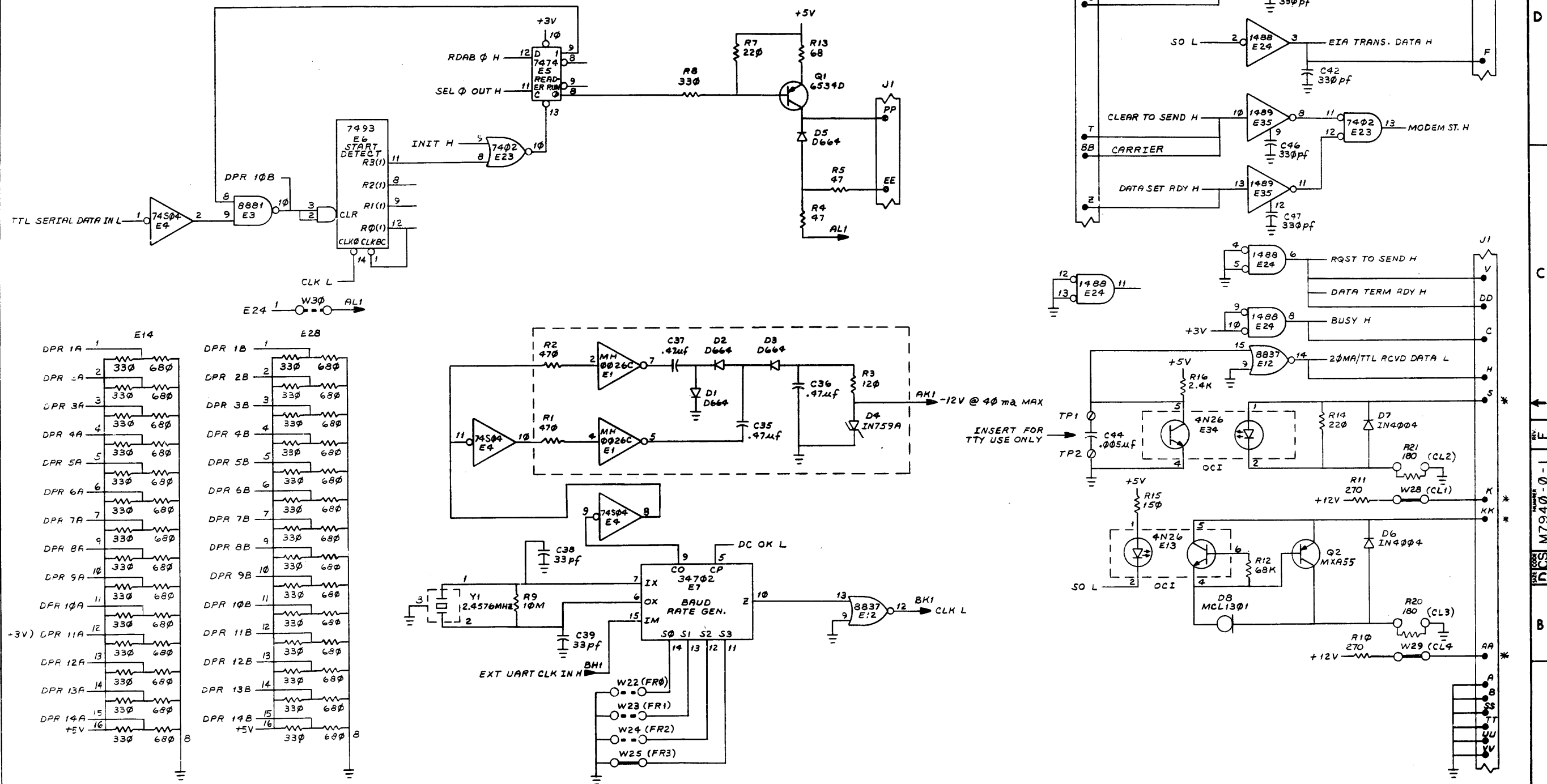
ETCH BOARD REV. B		PARTS LIST	
DATE 4-8-75		TITLE SERIAL LINE UNIT	
DRAWN J. Vincent		CHECKED J. Vincent	
DATE 4-8-75		DATE 4-8-75	
NEXT HIGHER ASSY		SCALE	
DEC NO.		EIA NO.	
DEC NO.		EIA NO.	
SEMICONDUCTOR CONVERSION CHART		SHEET 1 OF 5	

D. BENTLEY 11/17	M. MICHAUD	5-21-76	D
D. BENTLEY 5-21-76	M. MICHAUD	5-21-76	D
D. BENTLEY 5-21-76	M. MICHAUD	5-21-76	D
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D. BENTLEY 5-21-76	M. MICHAUD	5-21-76	D
D. BENTLEY 5-21-76	M. MICHAUD	5-21-76	D





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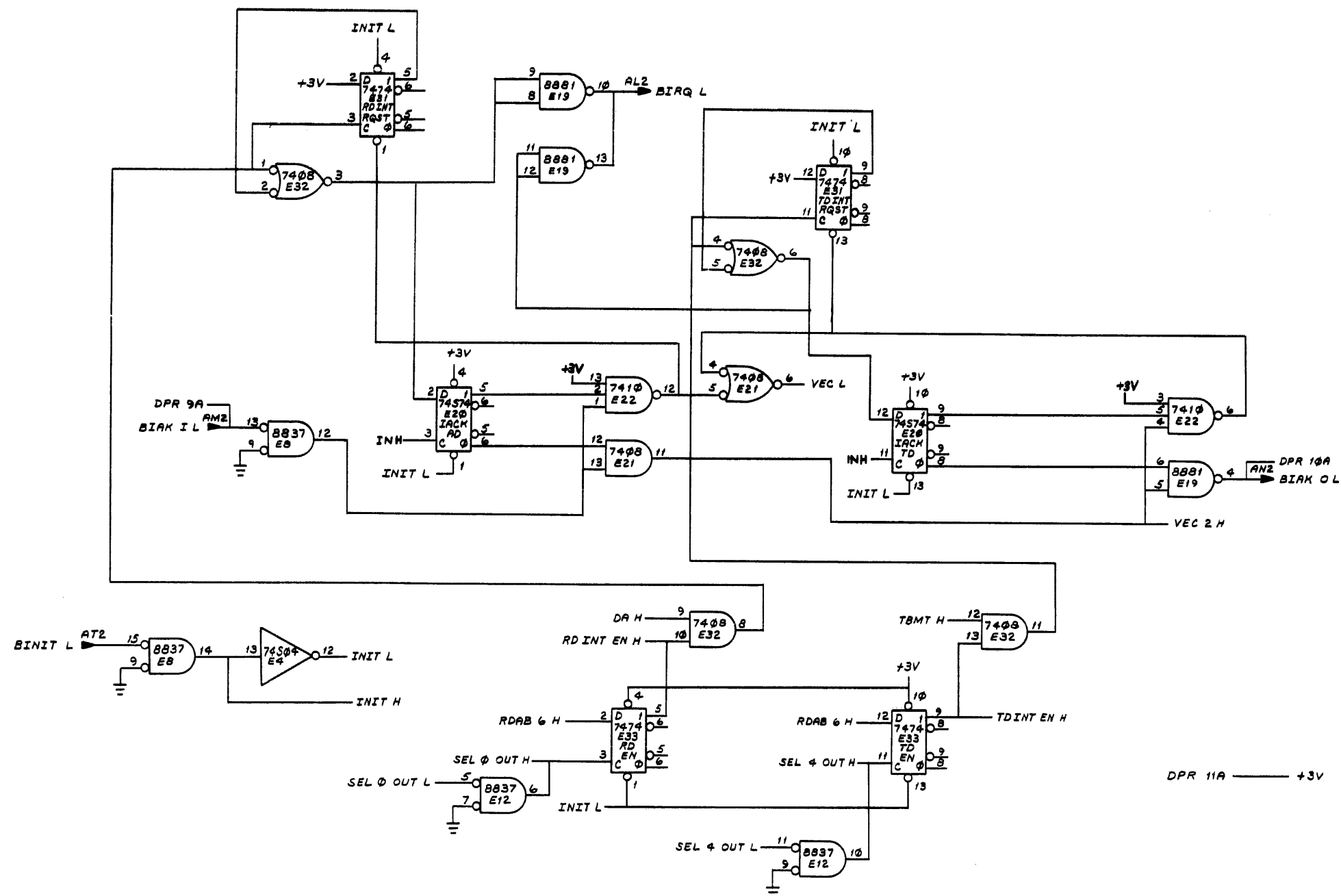


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SERIAL LINE UNIT		SIZE D	CODE CS	NUMBER M7940-0-1		REV F
SCALE	SHEET 4 OF 5	DWT.				

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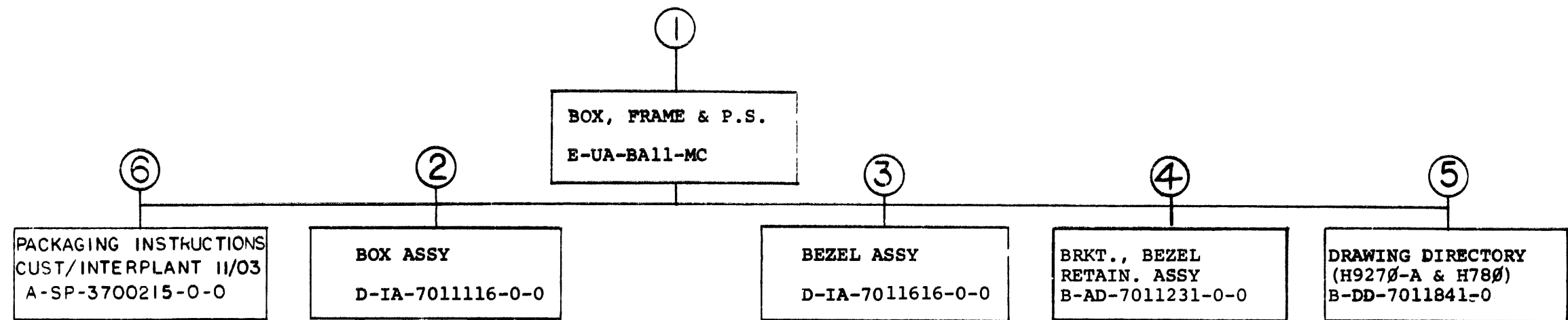


(INTERRUPT & ENABLE LOGIC)

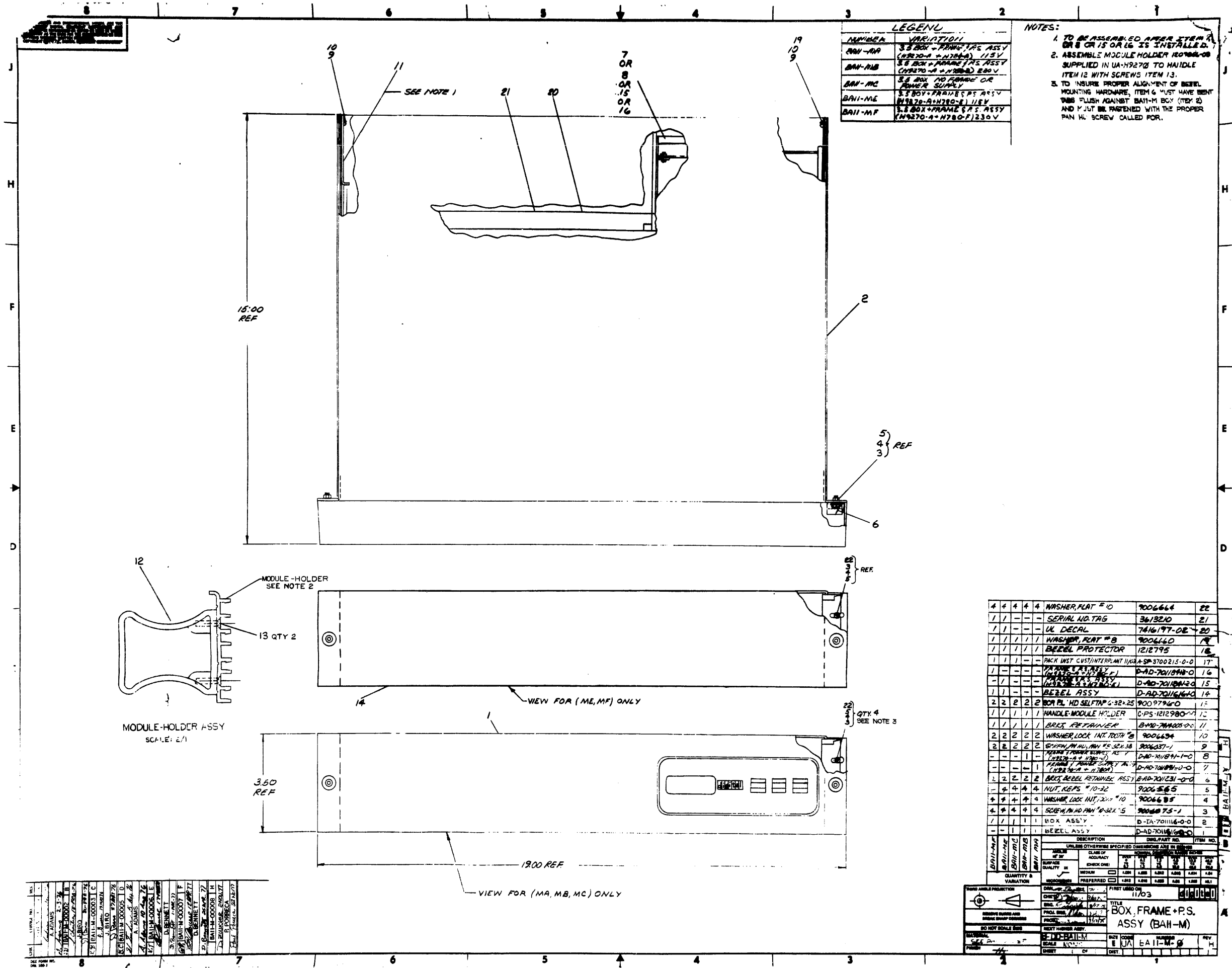
REVISIONS		
CHK	CHANGE NO.	REV.

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SCALE		SHEET		5 OF 5		DIST.	

DEC FORM NO. DRD 138



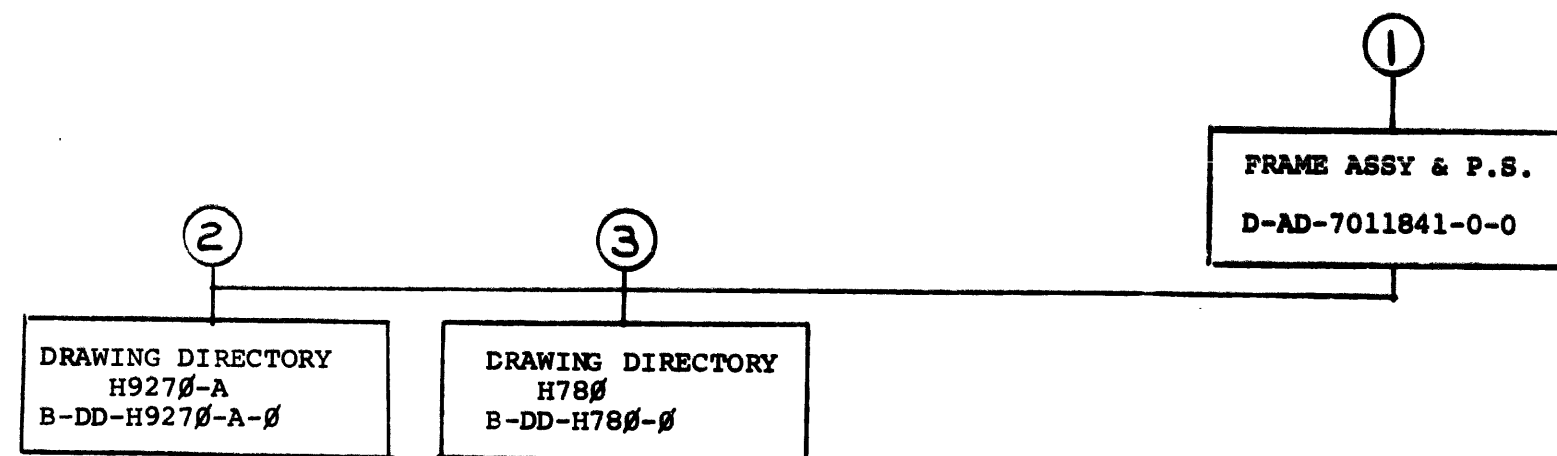
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BA11-M-Ø		SHEET 2 OF 3			



DATE	1/1/73	BY	A. ADAMS
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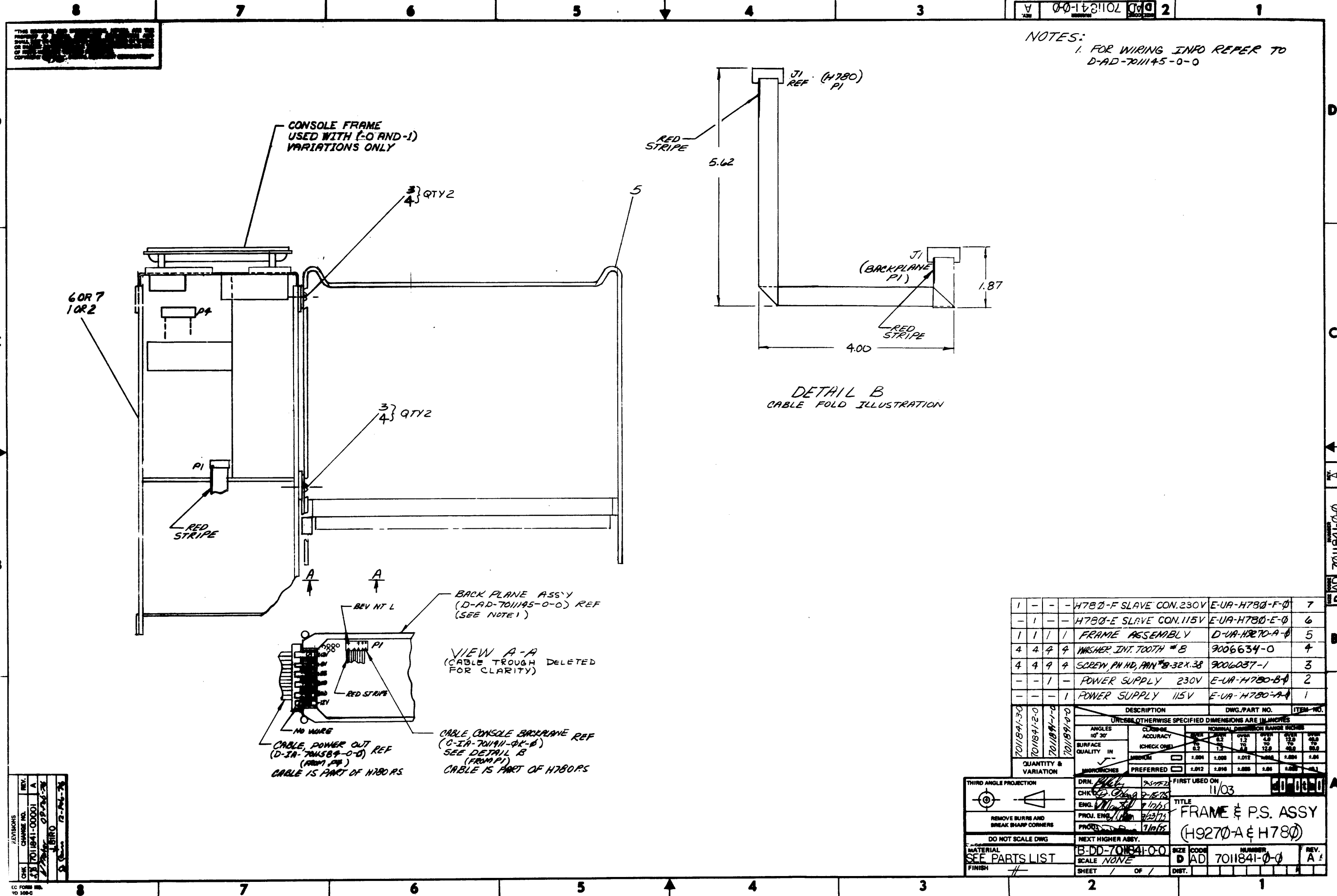
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1	1	1	1	1	WASHER, FLAT #8	900660	19
1	1	1	1	1	BEZEL PROTECTOR	1212795	18
1	1	1	1	1	PACK INST CUST/INTERPLANT 11/63	AS-3700215-0-0	17
1	1	1	1	1	HANDLE MODULE HOLDER	D-AD-701840-0	16
1	1	1	1	1	BEZEL ASSY	D-AD-701840-0	15
1	1	1	1	1	BEZEL ASSY	D-AD-701840-0	14
2	2	2	2	2	BOX PL HD SELF TAP G. 32x25	9009796-0	13
1	1	1	1	1	HANDLE MODULE HOLDER	C-PS-1212980-0	12
1	1	1	1	1	BEZEL RETAINER	B-MD-701840-0	11
2	2	2	2	2	WASHER, LOCK INT. 707H #8	900663	10
2	2	2	2	2	SCREW, PAN HD, #8x.38	900663-1	9
1	1	1	1	1	BEZEL ASSY	D-AD-701840-0	8
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2	2	2	2	2	BEZEL RETAINER ASSY	D-AD-701231-0	6
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1	1	1	1	1	BOX ASSY	D-AD-701840-0	2
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DATE	1/1/73	BY	A. ADAMS
REV	1	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	2	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
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REV	15	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	16	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	17	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	18	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	19	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	20	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	21	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	22	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	23	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	24	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	25	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	26	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	27	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	28	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	29	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	30	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	31	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	32	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	33	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	34	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	35	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	36	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	37	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	38	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	39	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	40	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	41	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	42	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	43	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	44	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	45	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	46	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	47	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	48	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	49	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	50	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	51	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	52	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	53	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	54	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	55	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	56	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	57	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	58	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	59	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	60	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	61	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	62	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	63	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	64	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	65	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	66	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	67	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	68	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	69	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	70	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	71	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	72	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	73	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	74	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	75	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	76	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	77	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	78	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	79	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	80	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	81	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	82	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	83	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	84	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	85	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	86	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	87	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	88	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	89	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	90	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	91	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	92	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	93	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	94	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	95	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	96	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	97	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	98	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	99	DESCRIPTION	3.5 BOX + FRAME + PS ASSY
REV	100	DESCRIPTION	3.5 BOX + FRAME + PS ASSY



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY (H927ø-A & H78ø)	2 OF 3	B	DD	7011841-0	A

[illegible]



NOTES:
1. FOR WIRING INFO REFER TO
D-AD-701145-0-0

1	-	-	-	H780-F SLAVE CON. 230V	E-UR-H780-F-0	7
-	1	-	-	H780-E SLAVE CON. 115V	E-UR-H780-E-0	6
1	1	1	1	FRAME ASSEMBLY	D-UR-H780-A-0	5
4	4	4	4	WASHER INT. TOOTH # 8	9006634-0	4
4	4	4	4	SCREW PH HD, PAN # 8-32X.38	9006037-1	3
-	-	1	-	POWER SUPPLY 230V	E-UR-H780-B-0	2
-	-	-	1	POWER SUPPLY 115V	E-UR-H780-A-0	1

7011841-30		7011841-20		7011841-10		7011841-00		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES													
ANGLES 10° 30'		CLASS OF ACCURACY		FINISH		NOMINAL DIMENSION RANGE							
SURFACE QUALITY		IN		(CHECK ONE)		0.2		0.3		0.4		0.5	
QUANTITY & VARIATION		MINIMUM		PREFERRED		0.004		0.008		0.012		0.016	
MONITORING		PREFERRED		0.012		0.016		0.020		0.024		0.028	
PROJECTION		DRN. 11/03		CHK. 11/03		ENG. 11/03		PROJ. ENG. 11/03		FIRST USED ON 11/03		TITLE	
		FRAME & P.S. ASSY		(H9270-A & H780)		B-DD-7011841-0-0		SCALE NONE		SHEET 1 OF 1		DST.	
DOVE BURRS AND BREAK SHARP CORNERS		NEXT HIGHER ASSY.		SIZE D		CODE AD		NUMBER 7011841-0-0		REV. A		1	
NOT SCALE DWG		ARTS LIST		SHEET 1 OF 1		DST.		1		1		1	

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SEQUENCE

[illegible]

REVISIONS			
DATE	CHG. NO.	REV	
2-76	H9270-A-2	A	
5-76	H9270-A-3	B	
7-76	H9270-A-4	C	
4-77	H9270-A-5	D	

USED ON OPTION/MODEL		DRN.	DATE	TITLE DRAWING DIRECTORY H9270-A									
11/03		D. HEALY	9/10/79										
		CHK'D.	DATE										
		D. HEALY	9/10/79										
		PROJ ENG.	DATE	SIZE CODE NUMBER REV B DD H9270-A D									
		PROD.	DATE										
		FIELD SERV.	DATE										
SHEET 1 OF 2				DIST									

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NOTES:

- BEFORE ASSEMBLING CABLE THROUGH (7413849) TO H9270-0-0, REMOVE JUMPERS (9007589), QUANTITY 2, FROM TERMINAL BLOCK. REPLACE SCREWS TO TERMINAL BLOCK.
- MANUFACTURING HAS THE OPTION TO USE 100° FLAT HEAD SCREW NO. 9008404-2 PLUS THREAD LOCKING COMPOUND NO. 9009321 IN PLACE OF SCREW CALLED FOR.

VIEW A-A

5 (QTY 2)
SEE NOTE 2

9 (QTY 2)
4 (QTY 2)
6 (QTY 2)

SEE NOTE 2

2	WASHER, LOCK, SPLIT #6	9007801-00	5
1	PACKAGING INSTRUCTIONS H9270-A-SP-3700266-0-0		5
4	NUT, WING #6-32	9009711	7
2	SCR, PHL. PAN HD. #6-32 X .25	9006920-1	6
2	SCR, PHL. FLAT HD 100° CSK #6-32 X .31	9009730	5
2	CLAMP	C-MD-7416425-0-0	4
2	BAR, CABLE STRAIN RELIEF	B-MD-7413846-0-0	3
1	TROUGH, CABLE	D-1A-7413849-0-0	2
1	UNIT ASSY H9270	E-UA-H9270-0-0	1

		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES 10° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES			
SURFACE QUALITY		MICRONINCHES		OVER 0	OVER 0.2	OVER 1.2	OVER 4.0
				0.2	1.2	4.0	12.0
QUANTITY & VARIATION		MEDIUM		±.004	±.008	±.012	±.018
		PREFERRED		±.012	±.018	±.025	±.031

THIRD ANGLE PROJECTION	DRN: J. G. G. 5-2-75	FIRST USED ON	1/1/73	TITLE FRAME ASSY
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: J. G. G. 7/1/75	ENG: J. G. G. 6/24/75	PROJ. ENG: J. G. G. 7/31/75	
DO NOT SCALE DWG	NEXT HIGHER ASSY.	MATERIAL SCALE 1/1		
FINISH	SHEET 1 OF 1	SIZE D	CODE UA	NUMBER H9270-A-0
		DIST.		REV. F

CHG	CHANGE NO.	REV.
1	H9270-A-00001	A
2	H9270-A-00002	B
3	H9270-A-00003	C
4	H9270-A-00004	D
5	H9270-A-00005	E
6	H9270-A-00006	F
7	H9270-A-00007	G
8	H9270-A-00008	H
9	H9270-A-00009	I
10	H9270-A-00010	J
11	H9270-A-00011	K
12	H9270-A-00012	L
13	H9270-A-00013	M
14	H9270-A-00014	N
15	H9270-A-00015	O
16	H9270-A-00016	P
17	H9270-A-00017	Q
18	H9270-A-00018	R
19	H9270-A-00019	S
20	H9270-A-00020	T
21	H9270-A-00021	U
22	H9270-A-00022	V
23	H9270-A-00023	W
24	H9270-A-00024	X
25	H9270-A-00025	Y
26	H9270-A-00026	Z
27	H9270-A-00027	AA
28	H9270-A-00028	AB
29	H9270-A-00029	AC
30	H9270-A-00030	AD
31	H9270-A-00031	AE
32	H9270-A-00032	AF
33	H9270-A-00033	AG
34	H9270-A-00034	AH
35	H9270-A-00035	AI
36	H9270-A-00036	AJ
37	H9270-A-00037	AK
38	H9270-A-00038	AL
39	H9270-A-00039	AM
40	H9270-A-00040	AN
41	H9270-A-00041	AO
42	H9270-A-00042	AP
43	H9270-A-00043	AQ
44	H9270-A-00044	AR
45	H9270-A-00045	AS
46	H9270-A-00046	AT
47	H9270-A-00047	AU
48	H9270-A-00048	AV
49	H9270-A-00049	AW
50	H9270-A-00050	AX
51	H9270-A-00051	AY
52	H9270-A-00052	AZ
53	H9270-A-00053	BA
54	H9270-A-00054	BB
55	H9270-A-00055	BC
56	H9270-A-00056	BD
57	H9270-A-00057	BE
58	H9270-A-00058	BF
59	H9270-A-00059	BG
60	H9270-A-00060	BH
61	H9270-A-00061	BI
62	H9270-A-00062	BJ
63	H9270-A-00063	BK
64	H9270-A-00064	BL
65	H9270-A-00065	BM
66	H9270-A-00066	BN
67	H9270-A-00067	BO
68	H9270-A-00068	BP
69	H9270-A-00069	BQ
70	H9270-A-00070	BR
71	H9270-A-00071	BS
72	H9270-A-00072	BT
73	H9270-A-00073	BU
74	H9270-A-00074	BV
75	H9270-A-00075	BW
76	H9270-A-00076	BX
77	H9270-A-00077	BY
78	H9270-A-00078	BZ
79	H9270-A-00079	CA
80	H9270-A-00080	CB
81	H9270-A-00081	CC
82	H9270-A-00082	CD
83	H9270-A-00083	CE
84	H9270-A-00084	CF
85	H9270-A-00085	CG
86	H9270-A-00086	CH
87	H9270-A-00087	CI
88	H9270-A-00088	CJ
89	H9270-A-00089	CK
90	H9270-A-00090	CL
91	H9270-A-00091	CM
92	H9270-A-00092	CN
93	H9270-A-00093	CO
94	H9270-A-00094	CP
95	H9270-A-00095	CQ
96	H9270-A-00096	CR
97	H9270-A-00097	CS
98	H9270-A-00098	CT
99	H9270-A-00099	CU
100	H9270-A-00100	CV

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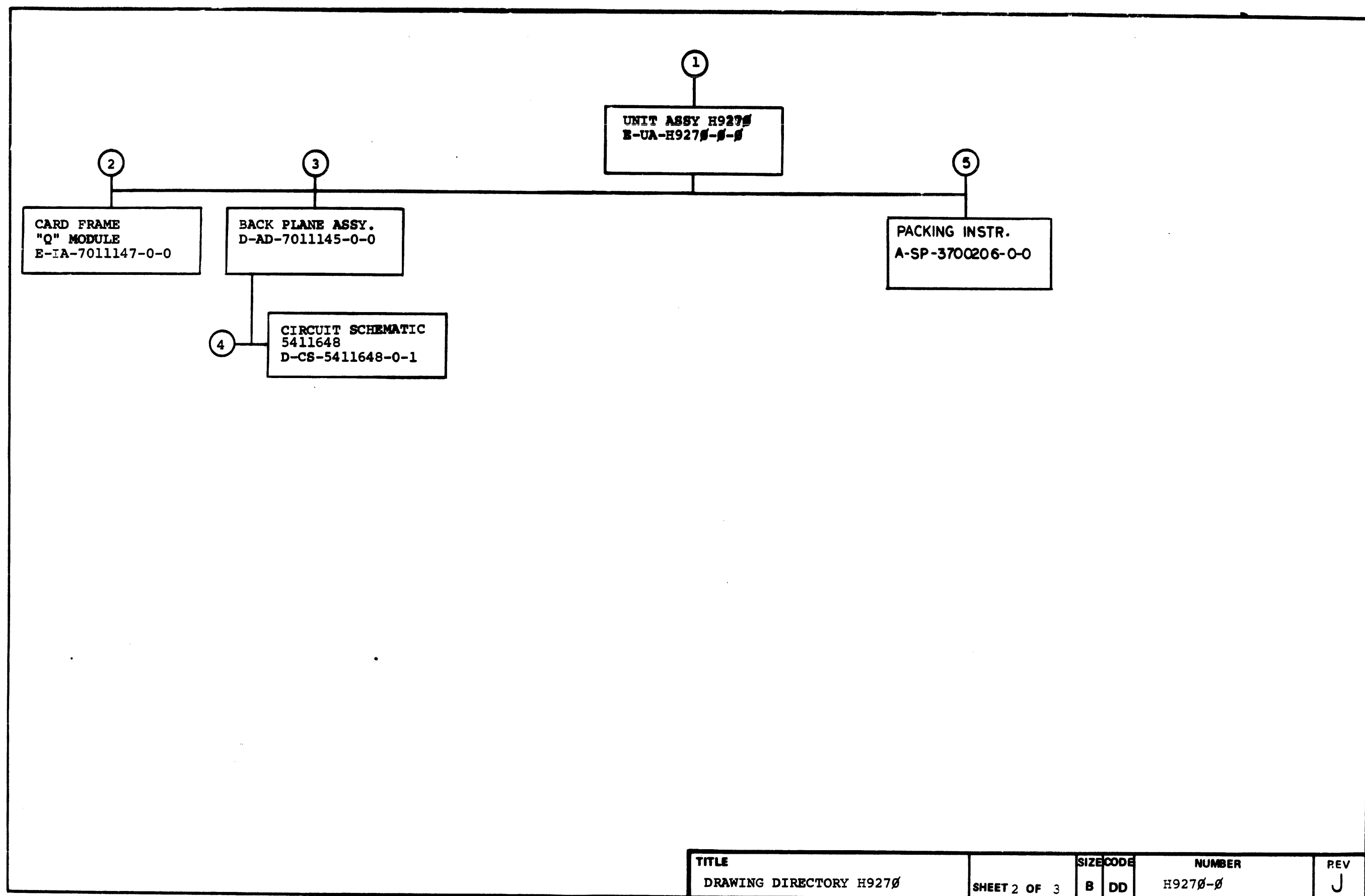
SEQUENCE

SECRET

[illegible]

REVISIONS				
DATE	CHG. NO.	REV		
7-75	H9270-1	A		
-76	H9270-2	B		
3-76	H9270-3	C		
3-76	H9270-4	D		
5-76	H9270-5	E		
7-76	H9270-6	F		
2-77	H9270-7	H		
6-77	H9270-8	J		

USED ON OPTION/MODEL		DRM. R. RILEY	DATE 5/5/75	TITLE DRAWING DIRECTORY H9270									
11/13		CHK'D.	DATE										
		D. HEALY	5/5/75										
		PROJ ENG.	DATE										
		PROD.	DATE	SIZE	CODE	NUMBER					REV		
		FIELD SERV.	DATE	B	DD	H9270-0					J		
SHEET 1 OF 3				DIST									



TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H9270		B	DD	H9270-0	J

ELECTRICAL										MECHANICAL									
CUSTOMER PRINT SET		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	CUSTOMER PRINT SET		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		
1									1										
X			1	E-UA-H9270-0-0 A-SP-H9270-0-1	# #	1 13	UNIT ASSY H9270 ENGINEERING SPECIFICATION					1	E-UA-H9270-0-0 A-DC-7411881-0-0 A-DC-7414333-0-0 A-DC-7414311-0-0 C-PS-1209856-03	E # # # #	1 1 1 1 3	UNIT ASSY H9270 AWT REV STATUS LABEL PWR. DISTRIBUTION DECAL SLOT NUMBERING DECAL MODULE HOLDER			
X			3	D-AD-7011145-0-0 A-WT-7011145-0 K-WL-7011145-0-1	# # #	1 1 #	BACK PLANE ASSY. AWT REV STATUS AWT ETCH LIST					2	E-IA-7011047-0-0 C-MD-7413971-0-0 C-MD-7413972-0-0 C-MD-7413973-0-0 C-MD-7413970-0-0	# # # # #	1 1 1 1 1	CARD FRAME "Q" MODULE BRKT. FRAME BRKT. EXTRACTOR BRKT. CARD GUIDE FRAME			
X			4	D-CS-5411648-0-1	#		CIRCUIT SCHEMATIC					3	D-AD-7011145-0-0 C-MD-7413493-0-0	# #	1 1	BACK PLANE ASSY. FRAME, BACK PLANE			
												4	D-CS-5411648-0-1 K-CO-5411648-0-4 D-AH-5411648-0-5 B-MH-5411648-0-6 5011647 D-MD-5011647-0-0	# # # # # #		CIRCUIT SCHEMATIC X-Y COORD. HOLE LOCATION ASSY/DRILLING HOLE LAYOUT MODULE ECO HISTORY ETCH BOARD MECHANICAL DIMENSIONS			
												5	A-SP-3700206-00 9905788			PACKING INSTRUCTIONS (REF) DIE CUT CARTON			
CUSTOMER PRINT SET CODES X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED									TITLE DRAWING DIRECTORY H9270				SHEET 3 OF 3		SIZE B	CODE DD	NUMBER H9270-0	REV J	



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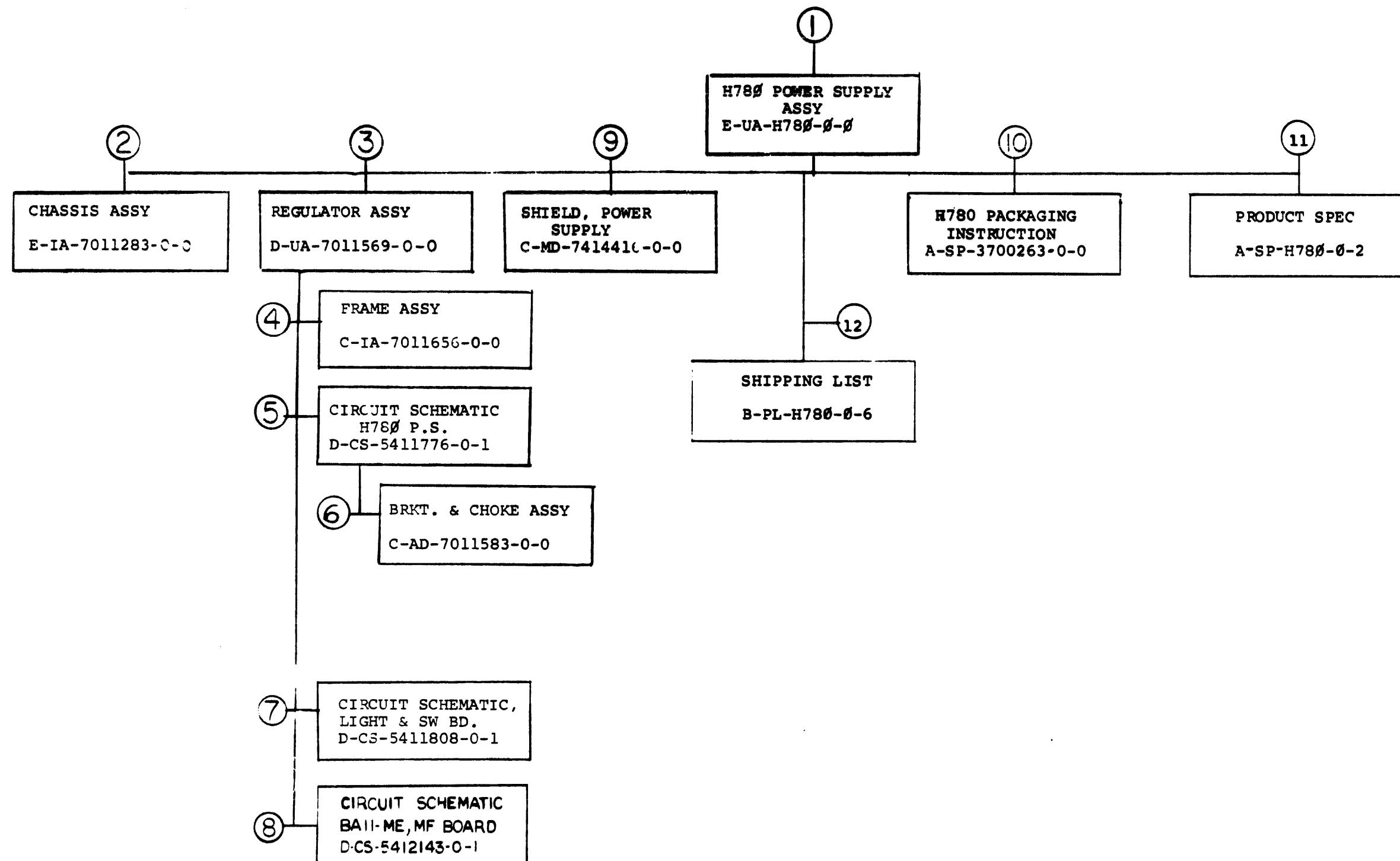
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SEQUENCE

[illegible]

REVISIONS			
DATE	CHG. NO.	REV	
2-76	H780-5	E	
REVISED & RETYPED			
3-77	H780-6	F	
5-77	H780-7	H	
5-77	H780-8	J	

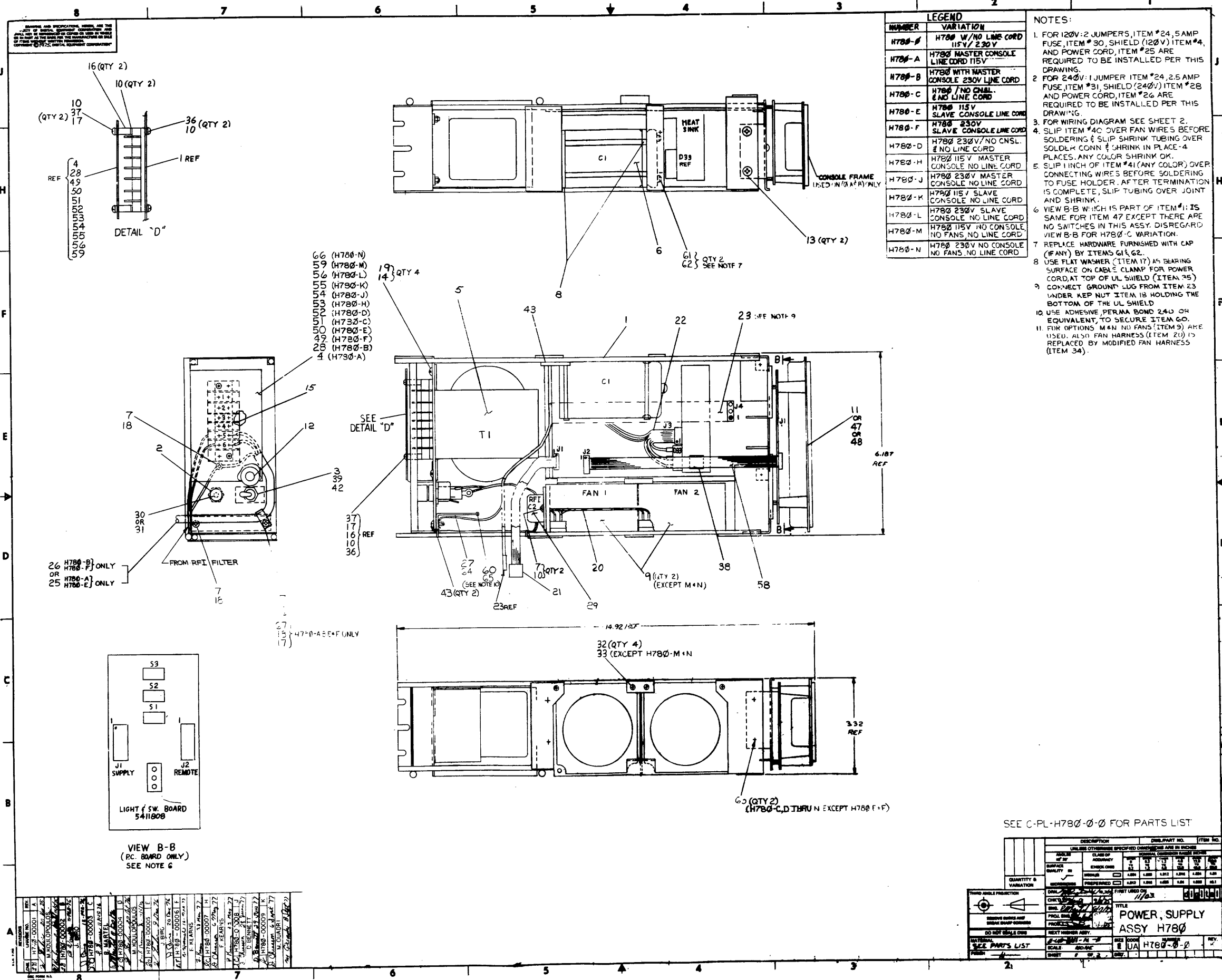
USED ON OPTION/MODEL		DRN.	DATE	TITLE										
11/03		M. BAPTISTE	8/4/75	DRAWING DIRECTORY H780										
		CHK'D.	DATE											
		D. HEALY	9/9/75											
		PROJ ENG.	DATE											
		R. MARTEL	10/17/75											
		PROD.	DATE	SIZE	CODE	NUMBER						REV		
		D. DEROME	10/17/75	B	DD	H780-0						J		
		FIELD SERV.	DATE											
SHEET	1	OF	4	DIST										
		J. CARLSON	10/17/75											



TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H780	2	4	B	DD	H780-0	J

CUSTOMER PRINT SET					MECHANICAL (SECTION 2)						CUSTOMER PRINT SET					MECHANICAL (SECTION 2)						
				FIG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE				FIG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		
					4	C-IA-7011656-0-0		1	FRAME ASSY						10	A-SP-3700263-0-0	-	2	PACKAGING INSTRUCTIONS			
						D-MD-7414504-0-0		1	FRAME MODIFICATION							C-MD-7417466-0-0	-	1	SHIPPING BRKT			
						D-MD-7411744-0-0		1	WINDOW							A-PS-9905044-0-0	-	1	CUSHION SHIPPING			
						C-IA-7008612-0-0		1	CABLE, (LOGIC BD. TO SW BD.)							A-PS-9905966-0-0	-	1	CARTON OUTER			
																A-PS-9905967-0-0	-	1	LAMINATED BUILDUP			
					5	D-CS-5411776-0-1		5	CIRCUIT SCHEMATIC H78Ø P.S.						11	A-SP-H78Ø-Ø-2		15	PRODUCT SPECIFICATION			
						D-AH-5411776-0-5			ASSY DRILL HOLE LAYOUT													
						B-MH-5411776-0-6			MODULE ECO HISTORY													
						5011775			ETCH CIRCUIT BOARD													
					6	C-AD-7011583-0-0		1	BRKT. & CHOKE ASSY													
						E-IA-7414323-0-0		1	BRKT., CHCKE SUPPORT													
					7	D-CS-5411808-0-1		2	CIRCUIT SCHEM. LIGHT & SW BD.													
						K-CO-5411808-0-4			X-Y COORDINATE HOLE LOCATION													
						D-AH-5411808-0-5			ASSY/DRILLING HOLE LAYOUT													
						B-MH-5411808-0-6			MODULE ECO HISTORY													
						5011807			ETCH CIRCUIT BOARD													
					8	D-CS-5412143-0-1		2	CIRCUIT SCHEMATIC BALL-ME,MF BD.													
						K-CO-5412143-0-4			X-Y COORD. HOLE LOC.													
						D-AH-5412143-0-5			ASSY. DRILL. HOLE LAYOUT													
						B-MH-5412143-0-6			MODULE ECO HISTORY													
						5012142			ETCH CIRCUIT BOARD													
					9	C-MD-7414416-0-0		1	SHIELD, POWER SUPPLY													
						A-SS-7414416-0-1		1	SILK SCREEN 115V													
						A-SS-7414416-0-2		1	SILK SCREEN 230V													
CUSTOMER PRINT SET CODES					X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED						TITLE DRAWING DIRECTORY H78Ø					SHEET 4 OF 4		SIZE CODE B DD		NUMBER H78Ø-Ø		REV J

DRB 108



NUMBER	VARIATION
H780-F	H780 W/NO LINE CORD 115V/230V
H780-A	H780 MASTER CONSOLE LINE CORD 115V
H780-B	H780 WITH MASTER CONSOLE 230V LINE CORD
H780-C	H780 /NO CHAL & NO LINE CORD
H780-E	H780 115V SLAVE CONSOLE LINE CORD
H780-F	H780 230V SLAVE CONSOLE LINE CORD
H780-D	H780 230V/NO CNSL & NO LINE CORD
H780-H	H780 115V MASTER CONSOLE NO LINE CORD
H780-J	H780 230V MASTER CONSOLE NO LINE CORD
H780-K	H780 115V SLAVE CONSOLE NO LINE CORD
H780-L	H780 230V SLAVE CONSOLE NO LINE CORD
H780-M	H780 115V NO CONSOLE NO FANS, NO LINE CORD
H780-N	H780 230V NO CONSOLE NO FANS, NO LINE CORD

- NOTES:
- FOR 120V: 2 JUMPERS, ITEM #24, 5 AMP FUSE, ITEM #30, SHIELD (120V) ITEM #4, AND POWER CORD, ITEM #25 ARE REQUIRED TO BE INSTALLED PER THIS DRAWING.
 - FOR 240V: 1 JUMPER ITEM #24, 2.5 AMP FUSE, ITEM #31, SHIELD (240V) ITEM #28 AND POWER CORD, ITEM #26 ARE REQUIRED TO BE INSTALLED PER THIS DRAWING.
 - FOR WIRING DIAGRAM SEE SHEET 2.
 - SLIP ITEM #40 OVER FAN WIRES BEFORE SOLDERING & SLIP SHRINK TUBING OVER SOLDER CONN & SHRINK IN PLACE-4 PLACES, ANY COLOR SHRINK OK.
 - SLIP 1 INCH OF ITEM #41 (ANY COLOR) OVER CONNECTING WIRES BEFORE SOLDERING TO FUSE HOLDER. AFTER TERMINATION IS COMPLETE, SLIP TUBING OVER JOINT AND SHRINK.
 - VIEW B-B WHICH IS PART OF ITEM #1 IS SAME FOR ITEM 47 EXCEPT THERE ARE NO SWITCHES IN THIS ASSY. DISREGARD VIEW B-B FOR H780-C VARIATION.
 - REPLACE HARDWARE FURNISHED WITH CAP (IF ANY) BY ITEMS G1 & G2.
 - USE FLAT WASHER (ITEM 17) AS BEARING SURFACE ON CABLE CLAMP FOR POWER CORD, AT TOP OF UL SHIELD (ITEM 25).
 - CONNECT GROUND LUG FROM ITEM 23 UNDER KEF NUT ITEM 18 HOLDING THE BOTTOM OF THE UL SHIELD.
 - USE ADHESIVE PERMA BOND 240 OR EQUIVALENT, TO SECURE ITEM 60.
 - FOR OPTIONS M+N NO FANS (ITEM 9) ARE USED. ALSO FAN HARNESS (ITEM 20) IS REPLACED BY MODIFIED FAN HARNESS (ITEM 34).

ITEM NO.	DESCRIPTION	QTY
1	CONSOLE FRAME USED IN M+N ONLY	1
2	WIRING HARNESS	1
3	WIRING HARNESS	1
4	WIRING HARNESS	1
5	WIRING HARNESS	1
6	WIRING HARNESS	1
7	WIRING HARNESS	1
8	WIRING HARNESS	1
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97	WIRING HARNESS	1
98	WIRING HARNESS	1
99	WIRING HARNESS	1
100	WIRING HARNESS	1

DESCRIPTION	QTY	ITEM NO.
POWER, SUPPLY ASSY H780	1	1
WIRING HARNESS	1	2
WIRING HARNESS	1	3
WIRING HARNESS	1	4
WIRING HARNESS	1	5
WIRING HARNESS	1	6
WIRING HARNESS	1	7
WIRING HARNESS	1	8
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WIRING HARNESS	1	99
WIRING HARNESS	1	100

[illegible]

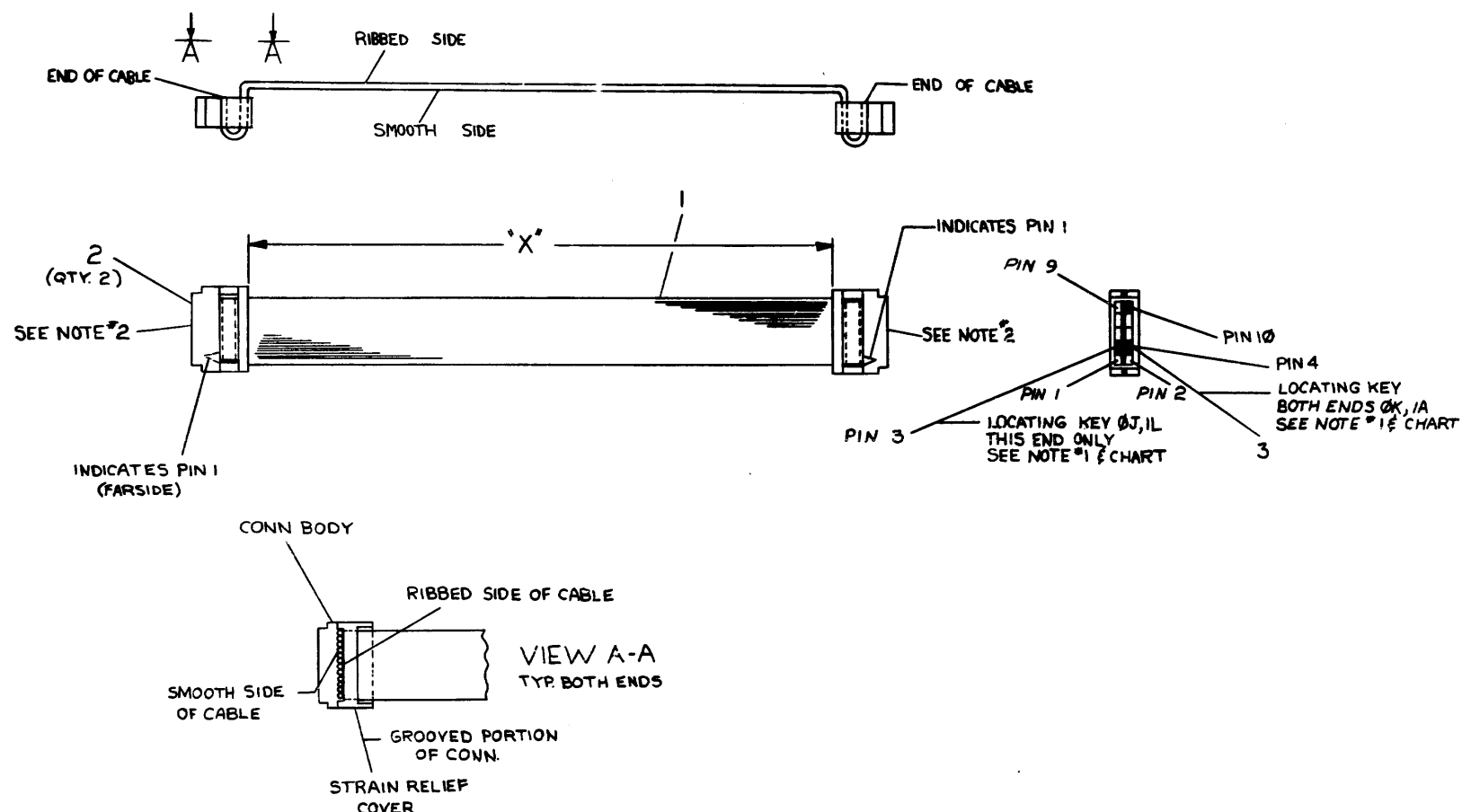
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LEGEND

NUMBER	DIM "X" VARIATION	USED ON	KEY PIN
7011411-0J	8 IN ± .5 IN.	BA11-L OR K	1C ONE END
7011411-0K	9 IN ± .5 IN.	LS1-11	4 BOTH ENDS
7011411-1D	1 FT-4 IN ± .1 IN.	KY11-LB	
7011411-2D	2 FT-4 IN ± .1 IN.	BA11-F/DO HPF	7D ONE END
7011411-0H	7 IN ± .5 IN.	H79, 1, 2, 3	
7011411-1J	1 FT-8 IN ± .1 IN.	1104/34-7A	
7011411-1L	1 FT-10 IN ± .1 IN.	BA11-L, H77	PIN 3 1 END
7011411-1A	1 FT-1 IN ± .1 IN.	H787	4 BOTH ENDS
7011411-3J	3 FT-8 IN ± .1 IN.	BA11-K, H785	
7011411-2J	2 FT-8 IN ± .1 IN.	BA11-K, H785	NO KEY
7011411-5F	5 FT-6 IN ± .1 IN.	1160	8 ONE END
7011411-12	12 FT ± .3 IN.	KA570	

NOTES:

1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
2. FOR ITEM (2) DRAWING IS SHOWING 3M CONNECTOR.



1	TIE, CABLE	9007031	5
1	LABEL, CABLE IDENT.	9009532	4
A/R	KEY	9009707	3
2	CONN. CRIMP	1211206-02	2
A/R	CABLE, 10 CONDUCT	9107747-02	1

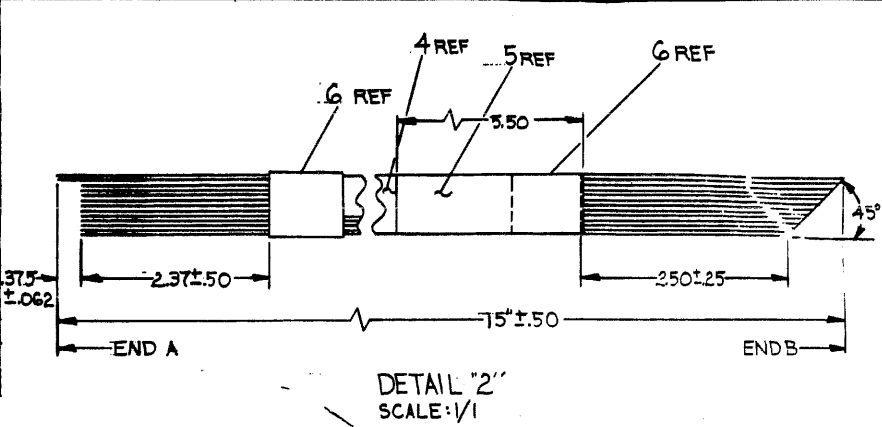
DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	CHECK ONE	OVER 0 TO 0.25 OVER 0.25 TO 1.2 OVER 1.2 TO 4.0 OVER 4.0 TO 12.0 OVER 12.0 TO 40.0 OVER 40.0 TO 80.0
MEDIUM	±.004 ±.008 ±.012 ±.016 ±.024 ±.04	
PREFERRED	±.012 ±.016 ±.025 ±.04 ±.06 ±.1	

THIRD ANGLE PROJECTION	DRM, BAPTIST 5-20-75	FIRST USED ON	SEE LEGEND	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D, HEALY 6-13-75	TITLE	CABLE CONSOLE BACKPLANE	
DO NOT SCALE DWG	ENG. R. BARRY 6-18-75	NUMBER	7011411-0-0	
MATERIAL SEE PARTS LIST	PROJ. ENG. R. BARRY 6-18-75	SIZE	D 1A	
FINISH	PROD. R. PETERSONS 6-19-75	REVISION	M	
SCALE NONE	NEXT HIGHER ASSY.	SHEET	1 OF 1	
		DIST.		

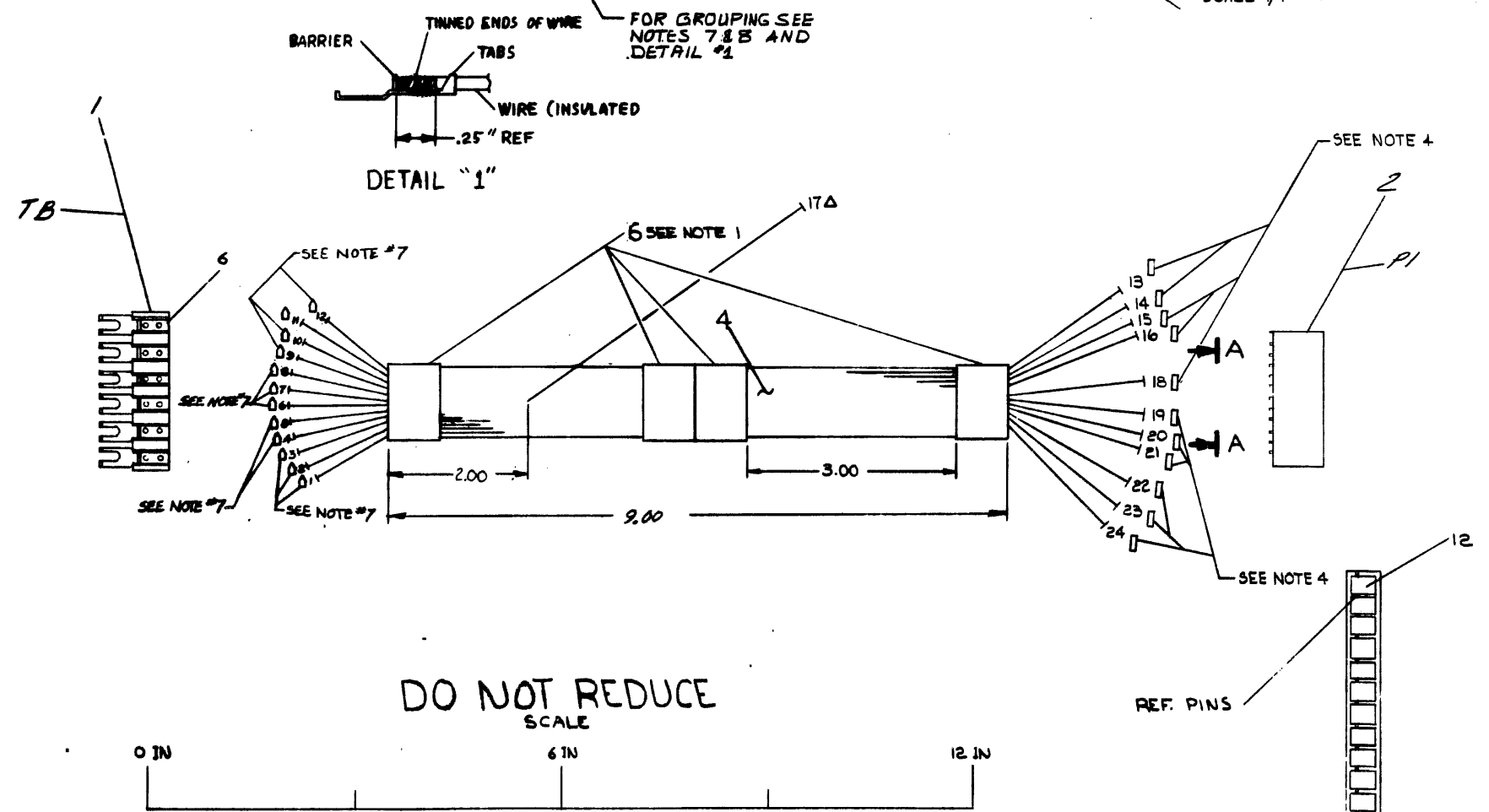
CHANGE NO.	REV.
7011411-00011	M
REDRAWN & REVISED	
STEVE A. WILE 26 MAY 77	
K. DUGGAN	
G. W. WILE	

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WIRE TABLE									
ITEM NO	DESCRIPTION	FROM	TO	CONNECTION	POINT	TERM	CONNECTION	POINT	TERM
4	TB	RED	PI-1	24	3				
		BOY	PI-2	23	4				
		BLK	PI-3	22	5				
		WHT	PI-4	21	6				
		GRY	PI-5	20	7				
		VIO	PI-6	19	8				
		BLU	PI-7	18	9				
		GRN	PI-9	16	3				
		VEL	PI-10	15	4				
		BRN	PI-11	14	5				
		RED	PI-12	13	6				
4	TB	BOY							



- NOTES:
1. CUT LENGTH OF ITEM 4 APPROXIMATELY 15" ± 1/2" WRAP ONE WRAP OF TAPE, ITEM 6 IN FOUR PLACES AS SHOWN IN DETAIL 2
 2. PEEL WIRES 13 THROUGH 24 APART DOWN TO TAPE.
 3. PEEL WIRES 1 THROUGH 12 APART IN GROUPS OF 1, 2, OR 3, AS SHOWN DOWN TO TAPE.
 4. FASTEN TO NAIL BOARD AND CUT TO PROPER LENGTHS 13 THRU 24 SHOULD BE CUT AT 45° ANGLE (SEE DETAIL 2)
 5. STRIP AND CRIMP ITEM 3 TO WIRES 13 THROUGH 24 EXCEPT #17
 6. PEEL WIRE #17 BACK TO 2" FROM TAPE. CUT TO PROPER LENGTH. (APPROXIMATELY 6" FROM BREAK OUT POINT). STRIP 1/4" BACK AND CRIMP ITEM 3
 7. STRIP ENDS OF WIRES 1 THROUGH 12 1/4" TO 3/8" BACK AND TWIST END OF INDICATED GROUPS TOGETHER, (1, 2 & 3; 4 & 5; 6, 7 & 8; 9, 10, & 12) TIE ENDS.
 8. PLACE TINNED ENDS ON FANNING STRIP. (ITEM 1) TO BARRIER (SEE DETAIL 1) AND SOLDER. (SEE WIRE TABLE FOR CONNECTIONS.) BEND TABS OVER WIRE TO PROVIDE GOOD STRAIN RELIEF. INSULATION SHOULD BE UNDER TABS.
 9. PLACE WIRES 13 THROUGH 24 IN 17" ± 2 AS INDICATED IN WIRE TABLE AND REFERENCE VIEW AA.
 10. CUT AND ASSEMBLE ITEM 5 TO CABLE AS SHOWN IN DETAIL "2"
 11. BEND CABLE AT 6.25 ± .05 FROM OUTER EDGE OF P1 CONNECTOR. BEND TO OPPOSITE FOAM TAPE (ITEM 5) SIDE OF CABLE.
 12. PART NUMBER 12-12203-00 IS AN ALTERNATE PART FOR ITEM 3, P/N 12-12203-01.
 13. PART NUMBER 17-00057-00 IS AN ALTERNATE PART FOR ITEM 4, P/N 17-00126-00.



1	LABEL	9009532	9
1	TIE WRAP	9007031	8
1	TERM, RING TONGUE	9007929-00	7
1	WR TAPE, ELECTRIC, BLK PLASTIC	9009507	6
1	WR TAPE, ADHESIVE BACK	9008379-00	5
19	WR CABLE, 12 WIRE	1700126-00	4
11	TERM, CRIMP	1212203-01	3
1	CONN, HSB, 12 PIN	1212620-01	2
1	CONN STRIP 6 LUG	1212693-00	1

SYNGTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLE OF ACCURACY	1/2	1/2
	SURFACE QUALITY IN	1/2	1/2
	QUANTITY & VARIATION	1/2	1/2
	THIRD ANGLE PROJECTION	1/2	1/2
	REMOVE BURS AND BREAK SHARP CORNERS	1/2	1/2
	DO NOT SCALE DWG	1/2	1/2
	MATERIAL SEE PARTS LIST	1/2	1/2
	FINISH	1/2	1/2

DRN: 12/23/73
CHK'D: 12/23/73
ENG: 12/23/73
PROJ. ENG: 12/23/73
PRD: 12/23/73
NEXT HIGHER ASBY.
E-UP-H789-4-2
SCALE: 1/1
SHEET 1 OF 1

FIRST USED ON: 11/83
TITLE: CABLE, DC OUTPUT
SIZE CODE: D
NUMBER: 701594-C-0
REV: E

REV	DATE	BY	CHK	APP
1	12/23/73	12/23/73	12/23/73	12/23/73
2	12/23/73	12/23/73	12/23/73	12/23/73
3	12/23/73	12/23/73	12/23/73	12/23/73
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98	12/23/73	12/23/73	12/23/73	12/23/73
99	12/23/73	12/23/73	12/23/73	12/23/73
100	12/23/73	12/23/73	12/23/73	12/23/73

WIRE TABLE

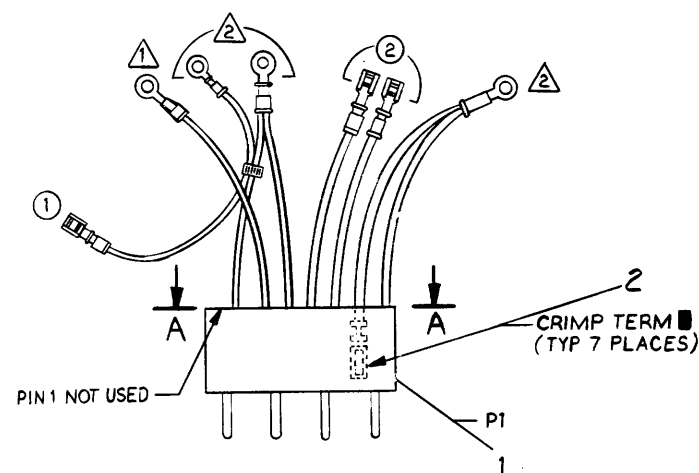
ITEM DESCRIPTION			FROM			TO			WIRE
NO.	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	LENGTH
3	18	YEL		P1-6	ITEM*2		_____	ITEM*11	3.0 IN
3	↑	YEL		P1-5	↑		_____	ITEM*11	3.0 IN
4	↓	BLK		P1-3	↓		_____	ITEM*10	4.0 IN
4		BLK		P1-8			_____		4.0 IN
4		BLK		P1-7			_____	ITEM #8	4.0 IN
5	↓	RED		P1-4	↓		_____	ITEM*8	3.5 IN
5	18	RED		P1-2	ITEM*2		_____		3.5 IN
6	14	RED		_____	ITEM*7		_____	ITEM*8	3.75 IN

SEE DETAIL "A"
FOR P-1 PIN LOCATIONS

NOTES:

1. MAKE ALL CONNECTIONS USING WIRE TABLE AND PRECUT LENGTHS NOTED THERE.

SEE NOTE *1



LOCATING PINS

2 REF.

1 REF

VIEW A-A
SCALE: NONE
(P1, ITEM*1)

	1	LABEL, IDENTIFICATION	9009532	12
②	2	TERM, QUICK CONN, (RED)	3007370	11
△	1	TERMINAL RING RED	3007930-00	10
X	2	TIE, CABLE	3007031	9
△	3	TERMINAL RING BLU	3007928-00	9
①	1	FASTON TAB BLU	3007369	7
	A/R	WIRE *14 AWG (RED)	9107370-22	3
	A/R	WIRE *18 AWG (RED)	9107360-22	5
	A/R	WIRE *18 AWG (BLK)	3107360-00	4
	A/R	WIRE *18 AWG (YEL)	9107360-44	3
■	7	TERMINAL CRIMP	1212203-00	2
	1	CONN, HSG 8PIN	1212220-00	1

SEE WIRE
CHART FOR
WIRE LENGTHS

SYN		DESCRIPTION				DWG. PART NO.				ITEM NO.							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																	
ANGLES 10° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES													
				OVER 10		OVER 0.2		OVER 1.2		OVER 4.0		OVER 12.0		OVER 40.0			
		SURFACE QUALITY IN		MEDIUM		0.004		0.008		0.012		0.018		0.024		0.04	
		MICRONS		PREFERRED		0.012		0.018		0.025		0.04		0.063		0.1	
QUANTITY & VARIATION		E PROJECTION 															
MOVE BURRS AND PEAK SHARP CORNERS NOT SCALE DWG		DRN. G. DRAYTON 1/2/75 CHK'D O. HEALY 3/9/75 ENG. R. MARTEL 9/9/75 PROJ. ENGR. WATTEL 9/9/75 PROD. C. EPOME 9/9/75				FIRST USED ON 11/32											
TITLE						HARNESS AC INFUT											
NEXT HIGHER ASSY. D U A - H 750 - 2						SIZE D		CODE 1A		NUMBER 7011658-0-0		REV. B					
SCALE 1/1						SHEET		OF		DIST.							
PARTS LIST																	

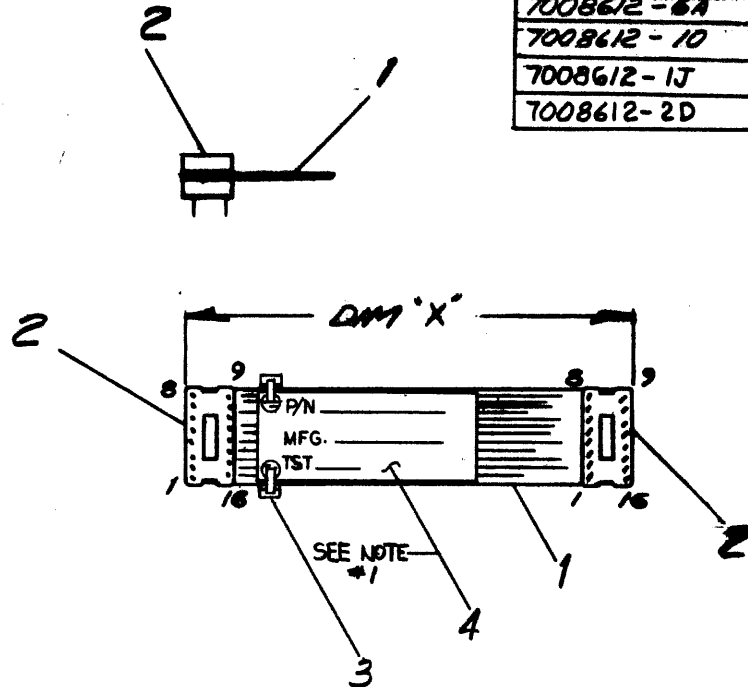
REVISIONS	
CHK	CHANGE NO. REV.
199	7011658-00001 A
REVISIONED/DRAWN	
R. Bennett 27-0058	
R. MARTEL	
7011658-00002 B	
D. BENNETT	
7011658-00003 C	
D. Bennett 27-0058	

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LEGEND	
NUMBER	VARIATION
~~7008612-0D~~	~~4 IN~~
7008612-1B	1 1/4 IN.
7008612-1F	1 1/8 IN.
7008612-03	3 FT.
7008612-0F	6 IN.
7008612-0K	9 IN. ± 1 IN.
7008612-4A	4 9/16 IN. ± 1 IN.
7008612-0M	1 1/2 IN.
7008612-0L	2 FT. ± 1 IN.
7008612-6A	6 FT. 1 1/4 IN. ± 2 IN.
7008612-10	10 FT. ± 2 IN.
7008612-1J	20 IN.
7008612-2D	2 FT. 4 IN. ± 1 IN.

NOTES:

1. PLACE LABEL, ITEM 4 AT ANY POSITION ALONG CABLE AS SHOWN.



REV	CHG	NO.	DATE	BY	CHK
1	1	1	11/22/77	R. MARTEL	
2	2	2	12/07/77	P. GILMAN	
3	3	3	12/07/77	W. KERCHNER	
4	4	4	12/07/77	W. KERCHNER	

DEC FORM NO. DRC 100-A

FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
VT05									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE		DATE		DATE		DATE	
DECIMALS		10-1-71		10-1-71		10-1-71		10-1-71	
ANGLES		10-1-71		10-1-71		10-1-71		10-1-71	
.XXX - .005		10-1-71		10-1-71		10-1-71		10-1-71	
.XX - .02		10-1-71		10-1-71		10-1-71		10-1-71	
.X - .1		10-1-71		10-1-71		10-1-71		10-1-71	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		10-1-71		10-1-71		10-1-71		10-1-71	
MATERIAL		NEXT HIGHER ASSY.		SCALE		SHEET		OF	
FINISH		SCALE		SHEET		OF		OF	
		SIZE CODE		NUMBER		REV.			
		C IA		7008612-0-0		P			
		DIST.							

7008612-C-C

7008612-C-C

7008612-C-C

7008612-C-C

7008612-C-C

7008612-C-C

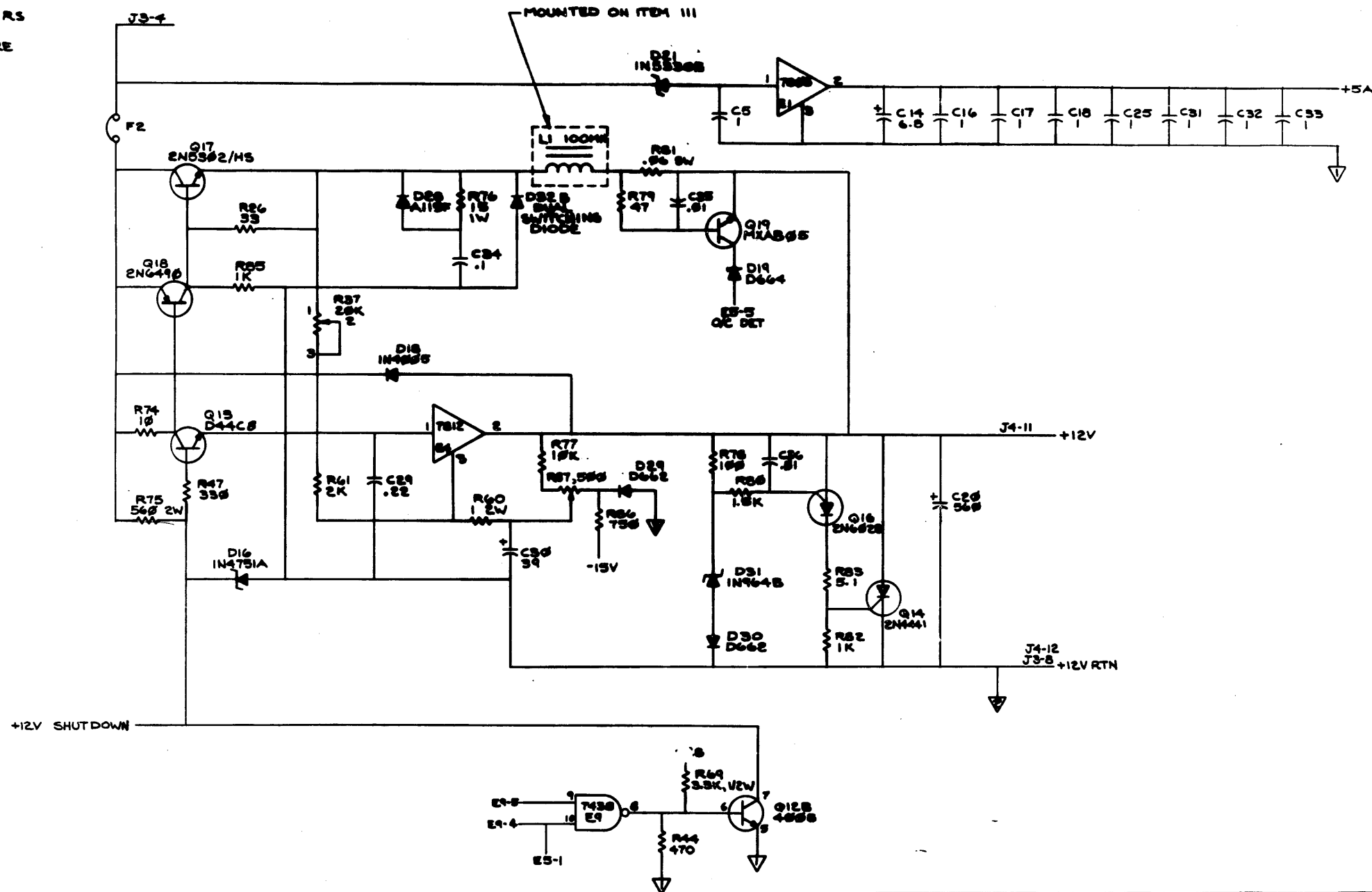
7008612-C-C

7008612-C-C

7008612-C-C

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4 W, 5% ; ALL CAPACITORS ARE IN μ F.

2. COMPONENTS SHOWN IN DASHED LINES ARE EXTERNAL TO THE P.C. BOARD.

[illegible]

HIGHEST REF. DES.						
C39	D36	E18	Q19	R46	T1	L2
REF. DES. DELETED						
~~C39, C19, C28, C38~~						
R42, R47, R49, R56, R57						

[illegible]

▲

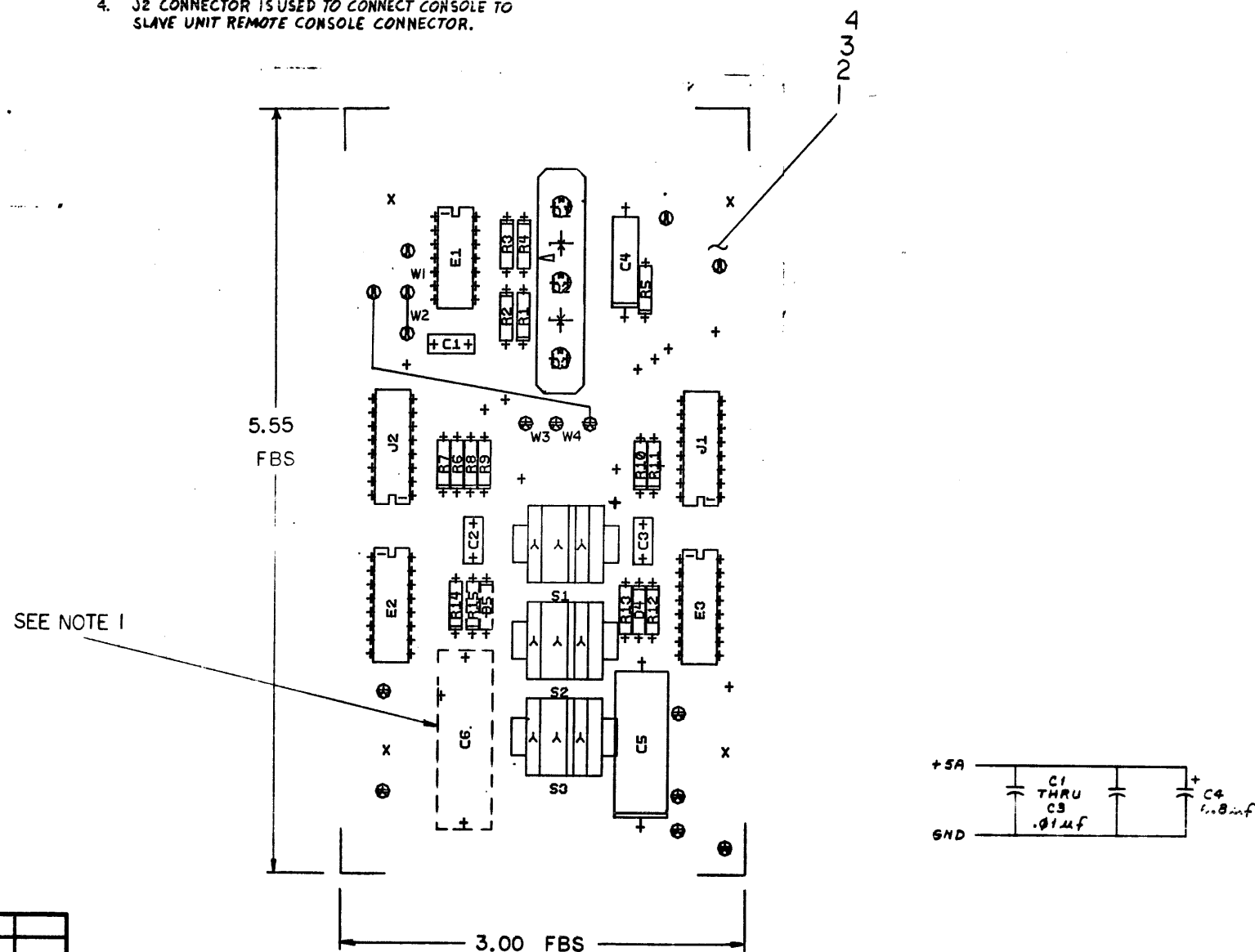


2 DCS 5411808-0-1 D

NOTES:

1. DOTTED COMPONENTS C6,D5 AND R15 ARE ENGINEERING OPTION. VALUE TO BE DETERMINED AT LATER DATE.
2. ADD GREEN WIRE ITEM 23 FROM TP2 SPLIT LUG TO W4 SPLIT LUG NEXT TO R10.
3. ~~W1, W2, AND W4 ARE OPTIONAL~~
~~WIRELS NOT TO BE INSERTED AT~~
~~THIS TIME.~~
4. J2 CONNECTOR IS USED TO CONNECT CONSOLE TO SLAVE UNIT REMOTE CONSOLE CONNECTOR.

5. J1 SUPPLY CONNECTOR IS USED TO CONNECT RIBBON CABLE TO J2 ON POWER SUPPLY REGULATOR BOARD. (CABLE P/N 7008612 OM)
6. W3 AND W4 JUMPERS ARE NOT USED. (OPTIONS)



		ETCHED CIRCUIT BOARD	5011807
REF		X-Y COORDINATE HOLE LOC.	K-CD-5910928-34
REF		ASSY, DRILL. HOLE LAYOUT	DAM-5910928-35
REF		MODULE HISTORY	B-MH-5910928-06
1	E1	IC DEC 7406	1910741
1	E3	IC DEC 74123	1910936
1	E2	IC DEC 6838	1911117
10	R3, R5, R7-R13, R4	RES. 2K, 1/4 W, 5%	1302388
2	R2, R3	RES. 220Ω, 1/4 W, 5%	1302271
1	R4	RES. 39K, 1/4 W, 5%	1302514
2	J1, J2	20 SOCKET	1211813
1		L.E.D. HOLDER	1210940-2
3		SWITCH LEVERS	1210786
3	S1, S2, S3	SWITCH, S.P.D.T.	1210890
1	D4	DIODE D6G9	1100114
3	D1, D2, D3	DIODE, LIGHT EMITTING	1110864
1	C5	CAP, 22μF, 10%, 50V	1011328
2		SCREW PH. HD. SELF TAP #6X.25	9008230-1
15		SPLIT LUG	9006735
3	C1, C2, C3	CAP. 0.1μF 100V	1001610-01
1	C4	CAP. 6.8μF 35V 10%	1005306
1/R	W2,	UNINSULATED #22 BUS WIRE	91 07560-01
1/R	WIRE,	#30 AWG	9105740-55
1	R6	RES. 10K 1/8W 1%	1303312

QTY	REF. DESIGNATION	DESCRIPTION										PART NO.	ITEM NO.
PARTS LIST													
ETCH BOARD REV.	C												
		DRN. <i>W.H.H.</i>	DATE <i>2-22-75</i>	digital TITLE LIGHTS & SWITCHES BOARD SIZE CODE D CS NUMBER 5411808-0-1 REV. D									
		CHRG. <i>J.P.H.</i>	DATE <i>2-2-75</i>										
		ENG. <i>W.H.H.</i>	DATE <i>2-2-75</i>										
		PROJ. ENG. <i>W.H.H.</i>	DATE <i>2-2-75</i>										
		PROJ. <i>W.H.H.</i>	DATE <i>2-2-75</i>										
		NEXT HIGHER ASSY D-AD-7011569-0-0											
DEC NO.	EIA NO.	SCALE 1/1											
CONVERSION CHART		SHEET 1 OF 2											

I.E.	DIC	76/28
I.E.	DEC	09/38
B TYPE	GND	+GA

GND AND GA ARE USUALLY FOR 7 AND 34
RESPECTIVELY OTHERWISE ARE NOTED ABOVE

IS FOR LEADTIME

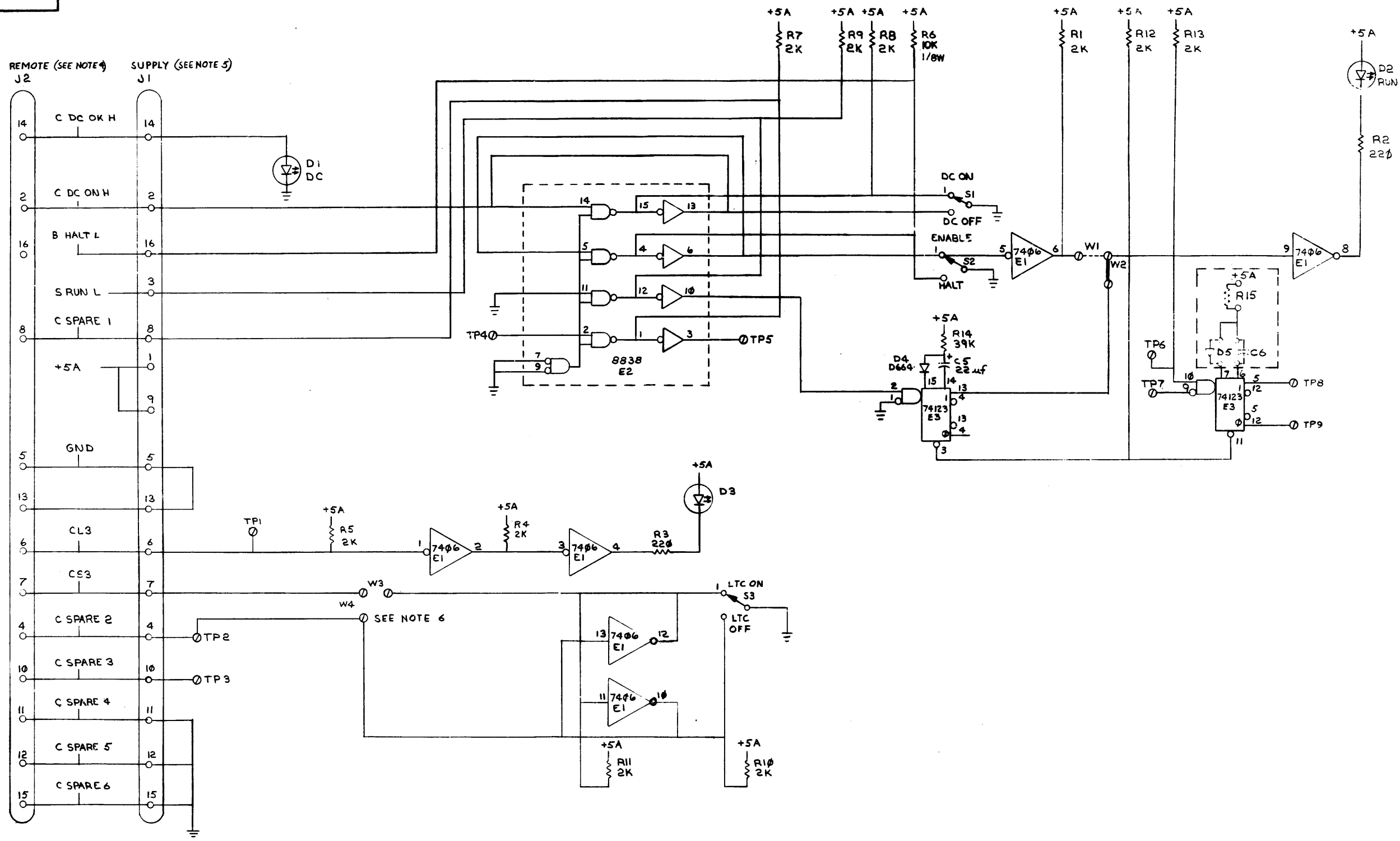
NAME	MR. KOULOPOULOS	DATE	12-1-76
ROOM	5411808-00002	CHARGE NO.	000002
REV.			

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1-0-801115 20 2 1

D
C
B
A

D
C
B
A

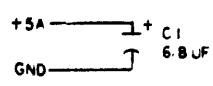
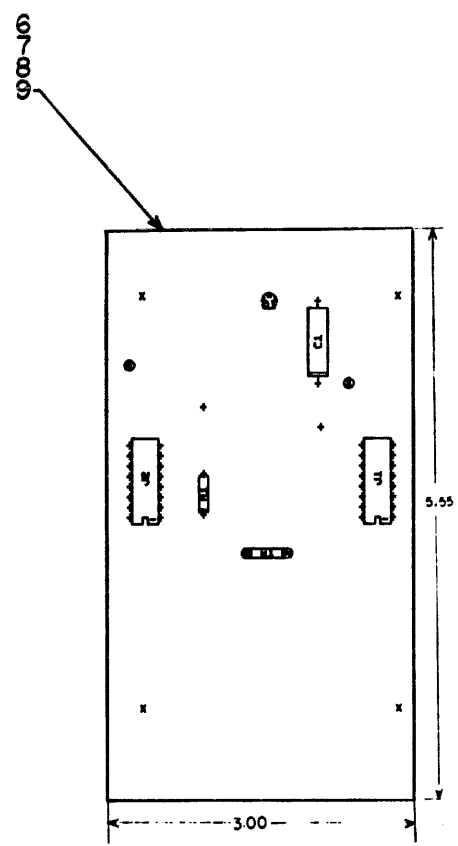
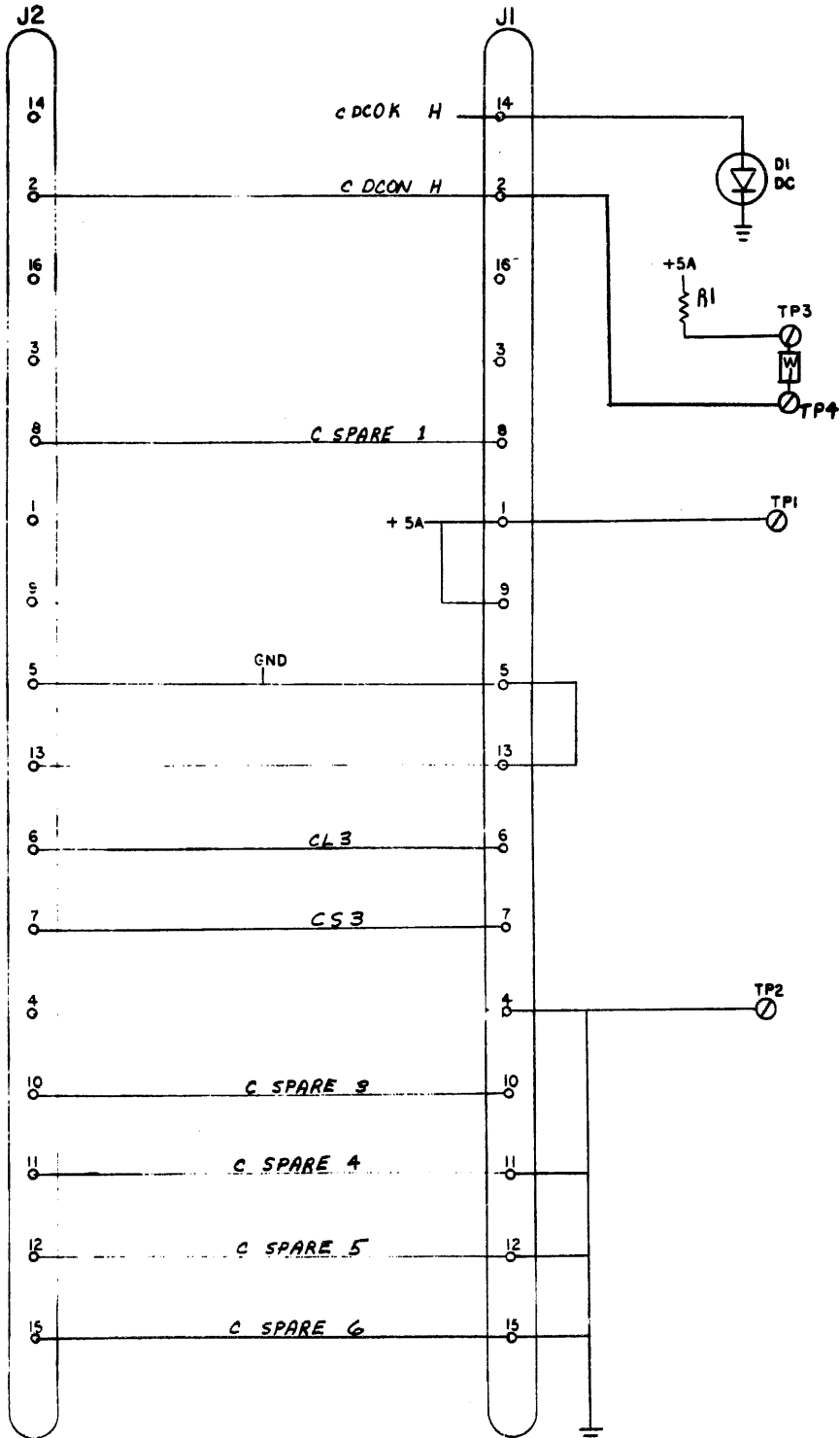


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
LIGHTS & SWITCHES BOARD		D	CS	5411808-0-1	D
SCALE		SHEET		DIST.	
2 OF 2		2		1	

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NOTES:



1	W1	TUMPER INSULATED (22 AWG)	90-09185	10
1		ETCHED CIRCUIT BOARD	5012142	9
REF		X-Y COORDINATE HOLE LOC	K-CO-5412143-0-4	8
REF		ASSY/DRILL HOLE LAYOUT	DAH-5412143-0-5	7
REF		MODULE HISTORY	BMD-5412143-0-6	6
1	C1	CAP 6.8UF 35V 10%	10-05306	5
1	D1	DIODE LIGHT EMITTING	1H-10864	4
2	J1, J2	IC SOCKET	12-11813	3
1	R1	RES 68, 1/4W 5%	13-00219	2
4	TP1 TP2 TP3 TP4	SPLIT LUG	90-06735	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL		PARTS LIST	
ETCH BOARD REV. B			
DRN. L. REYNOLDS	DATE 2-18-76	digital TITLE SLAVE CONSOLE	
CHK'D. F. GAROFALO	DATE 2-20-76		
ENG. W. L. JONES	DATE 2/21/76		
PROD. W. L. JONES	DATE 2/21/76		
NEXT HIGHER ASSY			
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE		SHEET OF 1	
DIST.		REV. A	

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY	WALT SIZER	CHECKED	WALT SIZER	SECTION
DATE	9/29/75	DATE	9/29/75	1
ENG	Charles D. Cohen	PROD	5-5-80	ISSUED SECT.
DATE	10/17/75	DATE	10/17/75	2

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	11/01	11/02	11/03	11/04	11/05	11/06	11/07	11/08	11/09	11/10	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	11/19	11/20	11/21	11/22	11/23	11/24	11/25	11/26	11/27	11/28	11/29	11/30	
1	EK-LS111-JK	LSI-11, PDP-11/03 USER'S MANUAL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	EB-04870-75	LSI-11, 11/03 PROCESSOR HANDBOOK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	EH-04779-75	LSI-11 PROGRAMMING CARD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	ZJV01-RB	LSI-11 BASIC DIAGNOSTIC KIT	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	MP-11/03	PDP-11/03 CUSTOMER PRINT SET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	A-PL-7011609-0-0	11/03 MOUNTING BRACKET KIT	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	EB-06583-76	MICROCOMPUTER HANDBOOK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

TITLE		PDP 11/03 SHIPPING LIST		ASSY NO.		SIZE CODE		NUMBER		REV.		ECO NO.	
				NONE		A PL		11/03-0-1		B		11/03	
				SHEET 1 OF 2		DIST.							

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

MADE BY		WALT	SIZE	SECTION
DATE	9/29/75		9/29/75	2
ENG	<i>Amos</i>		PROD	ISSUED SECT.
DATE	10/17/75		DATE 10/17/75	2

ITEM NO.	DWG NO./PART NO.	DESCRIPTION
1	EH-06879-75	LSI-11, PDP-11/03 USER'S MANUAL
2	ZJV01-RB	LSI-11, 11/03 PROCESSOR HANDBOOK
3	MP-11/03	LSI-11 PROGRAMMING CARD
4	A-PL-7011609-0-0	LSI-11 BASIC DIAGNOSTIC KIT
5	EB-06583-76	PDP-11/03 CUSTOMER PRINT SET
6		11/03 MOUNTING BRACKET KIT
7		MICROCOMPUTER HANDBOOK
		*NOTE: These items are only to be shipped with first ship to customer.

TITLE		ASSY NO.		SIZE CODE	NUMBER	REV.	ECONO.
PDP 11/03 SHIPPING LIST		NONE		A PL	11/03-0-1	B	
SHEET 2 OF 2		DIST.					

DEC FORM DEC 16-(325)-1031-N870
DRA 110