NOTES:

The M7942 uses all 512*4 PROMS or all 256*4 PROMS selection of the module is to one 4K bank for the 512*4 part or to one 2K bank for the 256*4 part. Within a bank any 512 or 256 word combinations (depending on tyne PROM) of memory may be enabled. Unenabled address groups are available vc other devices.

MODULES

JUMPERED ADDRESS SELECTION

W15	W16	W17	4K RANGE	ADDRESS RANGE
IN	IN	IN	0–4K	000000–017776
IN	IN	OUT	4–8K	020000–037776
IN	OUT	IN	8–12K	040000–057776
IN	OUT	OUT	12–16K	060000–077776
OUT	IN	IN	16–20K	100000–117776
OUT	IN	OUT	20–24K	120000–137776
OUT	OUT	IN	24–28K	140000–167776
OUT	OUT	OUT	28–32K	160000–177776

512* 4 PART

W8	W9	W10	W11	W12	W13	W14
IN	IN	IN	OUT	OUT	OUT	OUT

512* 4 PART

PROMS OCTAL RANGE*	PHYSICAL ROW	JUMPER IN TO ENABLE RPLY
0 – 1777	CE0	W0
2 0 – 3777	CE1	W1
4000 – 5777	CE2	W2
6000 – 7777	CE3	W3
10000 – 11777	CE4	W4
12000 – 13777	CE5	W5
14000 – 157777	CE6	W6
16000 – 177777	CE7	W7

256* 4 PART

W8	W9	W10	W11	W12	W13	W14	
OUT	OUT	OUT	IN	IN	IN	OUT	lower 2K
OUT	OUT	OUT	IN	IN	OUT	IN	upper 2K

256* 4 PART (LOWER 2K)

OCTAL RANGE *	PHYSICAL ROW	JUMPER IN TO ENABLE RPLY
000000–000777	CE0	W0
001000–001777	CE4	W4
002000–002777	CE1	W1
003000–003777	CE5	W5
004000–004777	CE2	W2
005000–005777	CE6	W6
006000–006777	CE3	W3
007000–007777	CE7	W7

256*4 PART (UPPER 2K)

OCTAL RANGE *	PHYSICAL ROW	JUMPER IN. ENABLE REPLY
010000–010777	CE0	W0
011000–011777	CE4	W4
012000–012777	CE1	W1
013000–013777	CE5	W5
014000–014777	CE2	W2
015000–015777	CE6	W6
016000–016777	CE3	W3
017000–017777	CE7	W7

*Add one of the following addresses corresponding to the modules jumpered address selection (beginning address) to the octal ranges above to determinethe true octal range of a PROM;

ADDRESS RANGE	ADDRESS RANGE
000000	100000
020000	120000
040000	140000
060000	160000

M7942 PROM BOARD BURNING SUMMARY

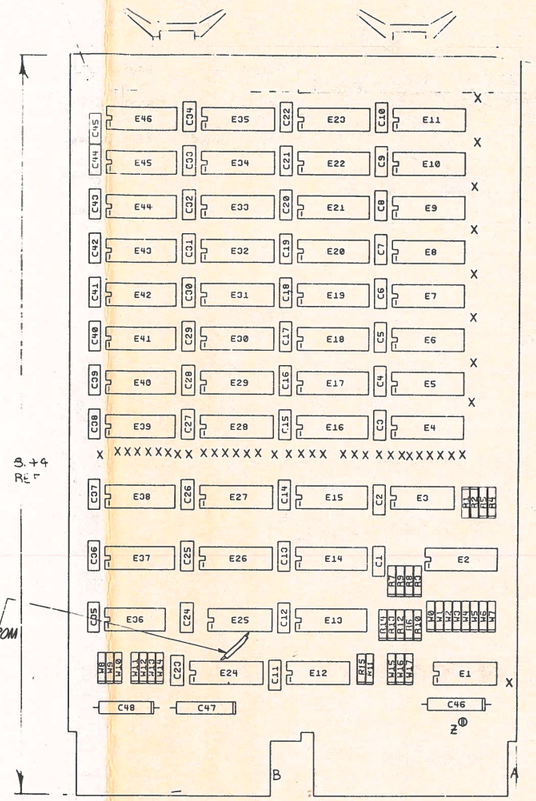
PROM OUTPUT PIN#	PDP–11 BIT #
9	3 7 11 15
10	2 6 10 14
11	1 5 9 13
12	0 4 8 12

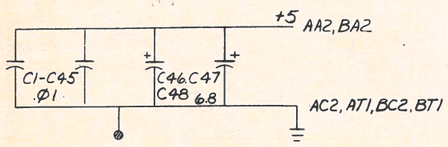
A logic 1 data bit (corresponding to a 1 in any PDP–11 literature showing OP Codes or data) should assert high on the PROM output (data in true form). For virgin high parts like MMI do not burn data bits which want to be A1.

Address ø puts all highs on PROM address pins. (PROM address is in negative logic)

	PROM PIN	14	15	1	2	3	4	7	6	5
										← Varies most rapidly
ADDRø		H	H	H	H	H	H	H	H	H
1		H	H	H	H	H	H	H	H	L
ADDR 377		L	L	L	L	L	L	L	L	L

INSTALL JUMPER FROM E24-13 TO E25-5





REF		X-Y COORDINATE HOLE LOCATION	M-CO M7942-0-4	1
REF		ASSY, DRILLING HOLE LAYOUT	D-AH-M7942-0-5	2
REF		MODULE ECO HISTORY	B-MH-M7942-06	3
1		ETCHED CIRCUIT BOARD	5011562	4
45	C1 THRU C45	CAPACITOR .01, 100V, 20% DISC	1001610-01	5
3	C46, C47, C48	CAPACITOR, 6.8 35V, 10% TANT	1005306	6
15	R3 THRU R15	RESISTOR 1K, 1/4W, 5%	1300365	7
1	R2	RESISTOR 3.3K, 1/4W, 5%	1300439-00	8
1	R1	RESISTOR 5.6K, 1/4W 5%	1301874-00	9
18	W0 THRU W17	JUMPER INSULATED	9009185	10
				11
1	E1	I.C. DEC 7430	1905578-00	12
2	E26, E37	I.C. DEC 7475	1909050-00	13
1	E2	I.C. DEC 7442	1910046-00	14
3	E3, E25, E36	I.C. DEC 7437	1910091-00	15
1	E14	I.C. DEC 74174	1910652-00	16
5	E13, E15, E24, E27, E38	I.C. DEC 8838	1911117-00	17
1	E12	I.C. DEC 8242	1909712	18
32	E4 THRU E11, E16 THRU 23 E28 THRU E35, E39 THRU E46	DEC 16 PIN SOCKET	1211813	19
1		SPLIT LUG	9006735	20
2		HANDLE FLIP CHIP MAGENTA	9008337-6	21
4		EYELET GS4-7	9006732	22

PROM	8	16
7442	8	16
8838	8	16
14174	8	16
7475	12	5
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: LST-11

ETCH BOARD REV. D

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

REVISIONS	CHANGE NO.	REV.
REVISED MODULE DRAWN		D

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN. J. PHELAN	DATE 5/21/
CHK'D. R. FOLTANE	DATE
ENG. W. ERICSON	DATE
PROJ. ENG. A. ERICSON	DATE
PROD. W. ERICSON	DATE
NEXT HIGHER ASSY	
SCALE	
SHEET OF	

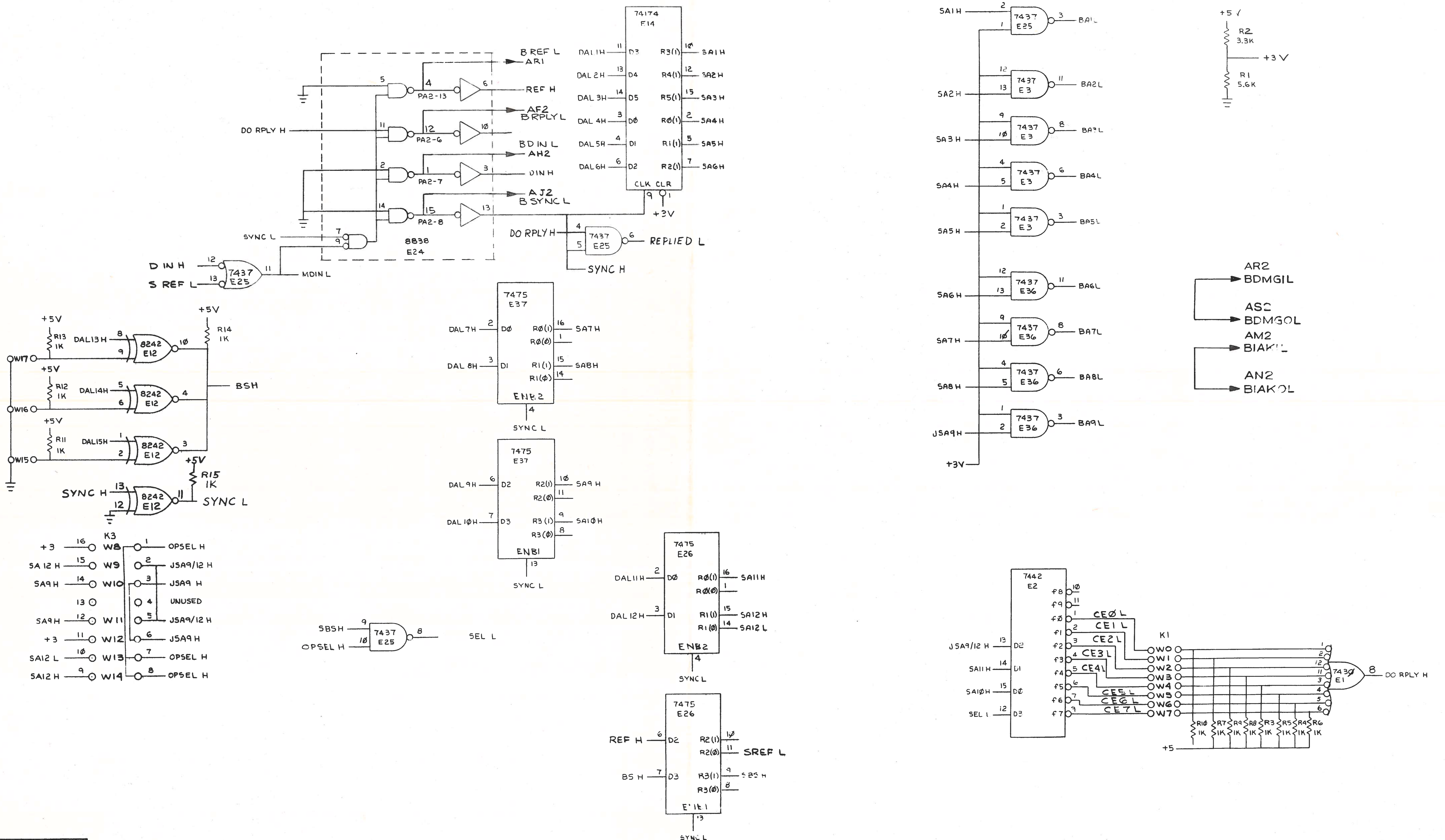
digital

TITLE: 4K, 2K PROM

SIZE D | CODE CS | NUMBER M7942 0 1 | REV. D

DIST.

DEC FORM NO. ORD 135.0

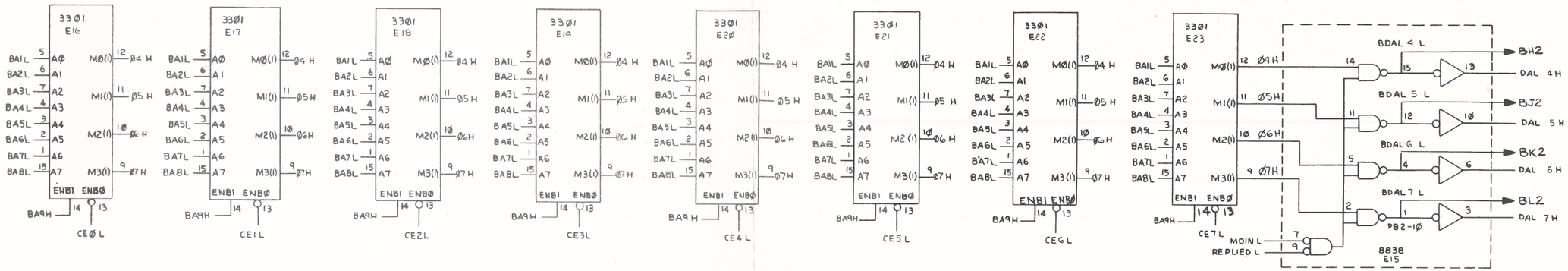


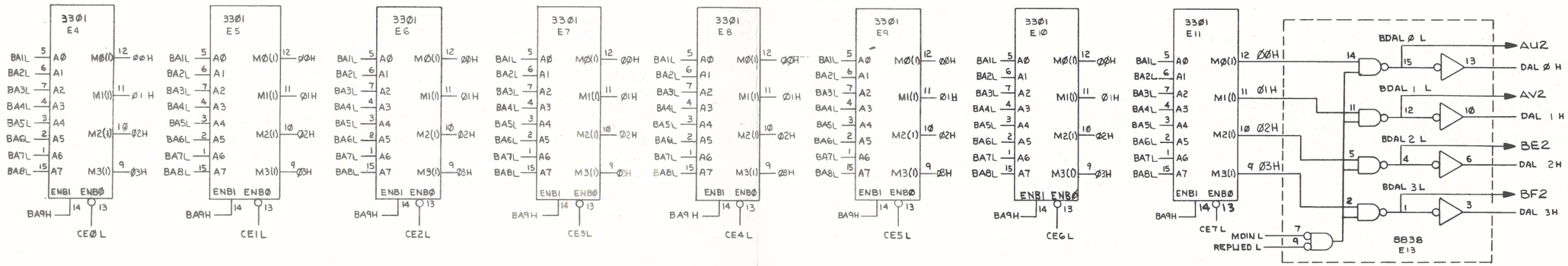
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
4K/2K PROM	D	CS	M7942-Ø-1	D

SCALE —/— SHEET 2 OF 4

DIST.

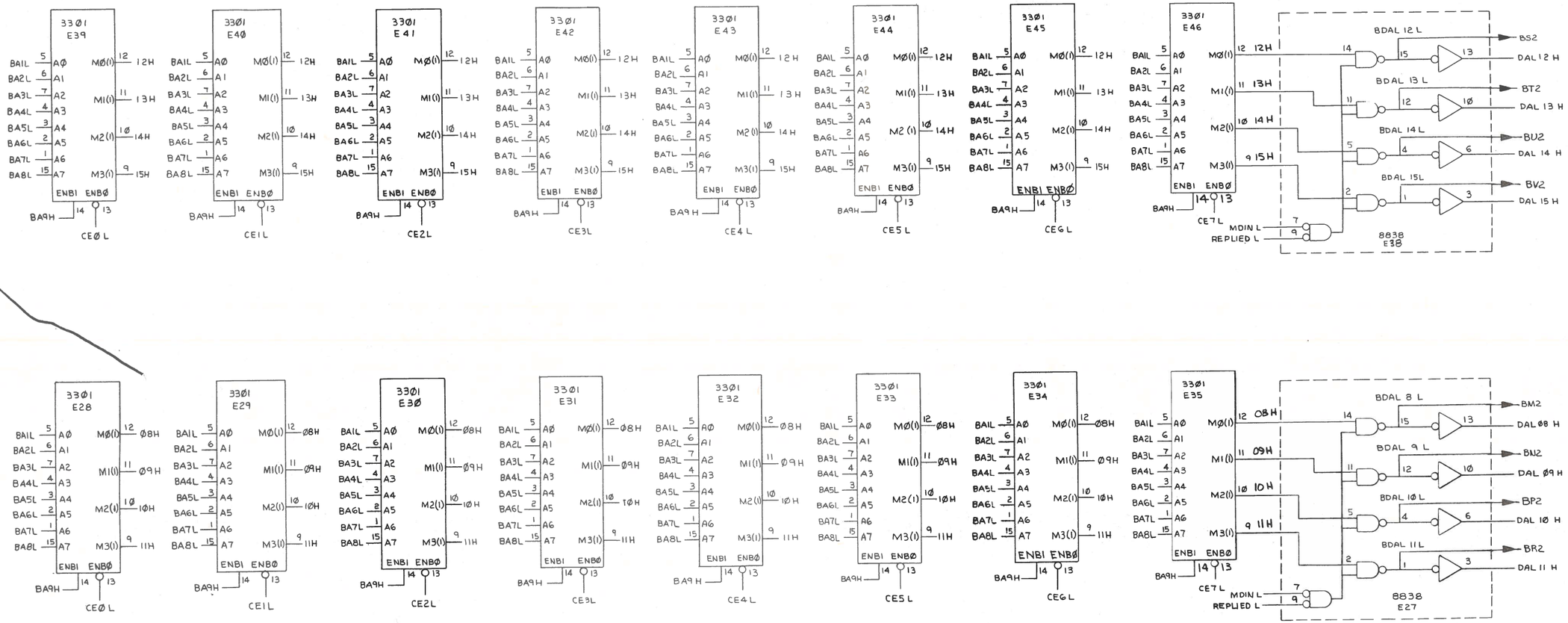




REVISIONS		
CHK.	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
4K/2K PROM	D	CS	M7942-0-1	D
SCALE —	SHEET 3 OF 4	DIST.		

BDC FORM NO. DRD 128



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
4K/2K PROM	D	CS	M7942-0-1	D
SCALE —	SHEET 1 OF 4		DIST.	

DEC FORM NO. DRD 138