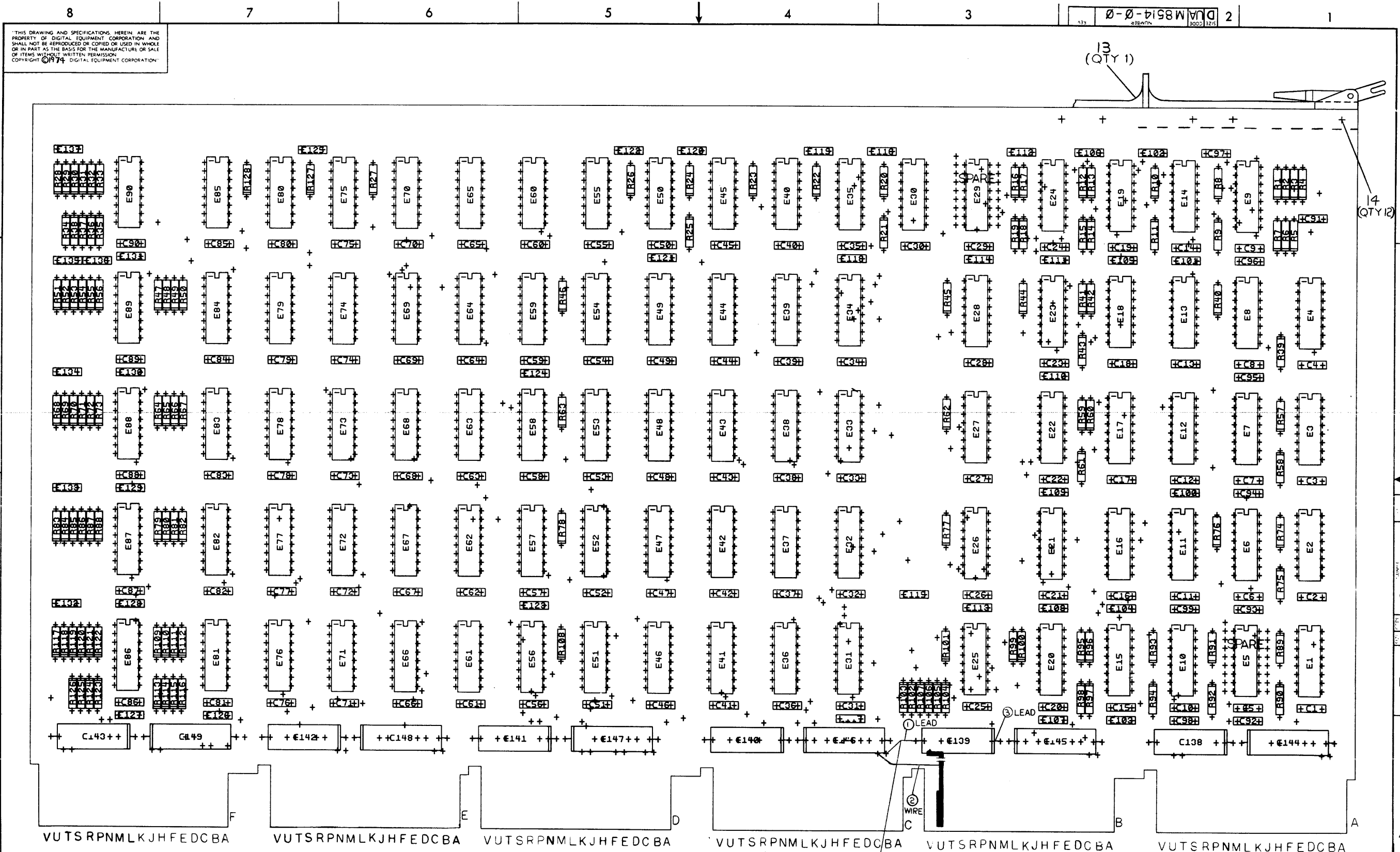


CUSTOMER PRINT SET				REVISION CONTROL SHEET											
MFG SET				REVISIONS											
DRAWING NO				NO OF SHT											
DESCRIPTION				OPTION NO/FILE DATE											
MODULE REVISION															
D-UA-M8514-0-0				5											
D-CS-M8514-0-CHA1				1											
D-CS-M8514-0-CHA2				1											
D-CS-M8514-0-CHA3				1											
D-CS-M8514-0-CHA4				1											
D-CS-M8514-0-CHA5				1											
C-CS-M8514-0-RES				1											
K-CO-M8514-0-4				1											
D-AH-M8514-0-5				4											
B-MH-M8514-0-6				1											
5010526				-											
P00-M8514-00				-											
ETCH CIRCUIT BOARD				C C											
PROCESS SHEET (REF ONLY)				- -											
CUSTOMER PRINT SET CODES				X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED											
ECO NO				ORIG											
TITLE				CACHE DIRECTORY											
SHEET 2 OF 2				B DD M8514-0											
REV				A											

MR



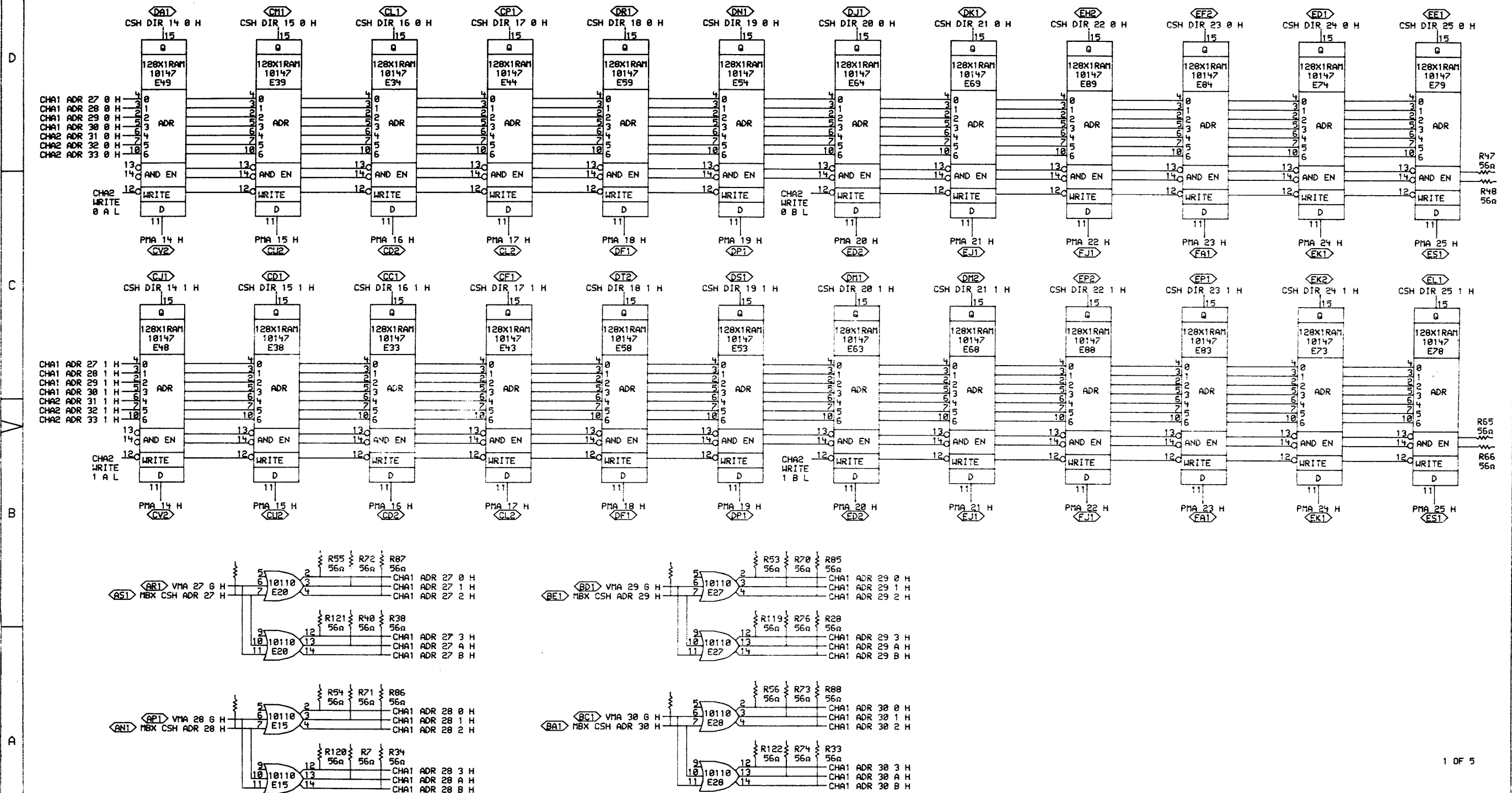
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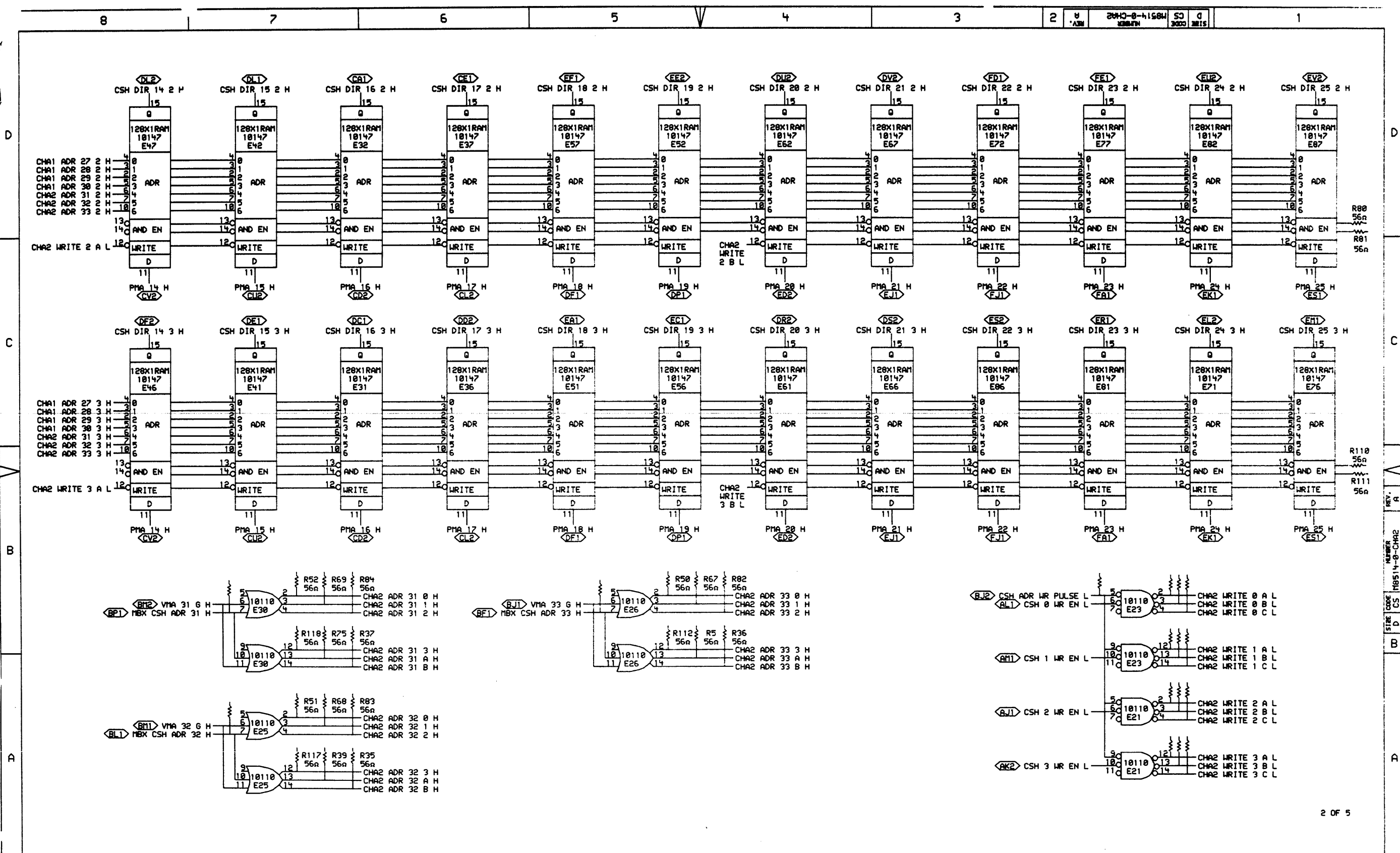
DUAL M8514-0-0 2

REVISIONS		
CHK	CHANGE NO	REV

TITLE CACHE DIRECTORY		SIZE CODE DUA	NUMBER M8514-0-0	REV.
SCALE 2/1		SHEET 2 OF 5		
		MR		

35



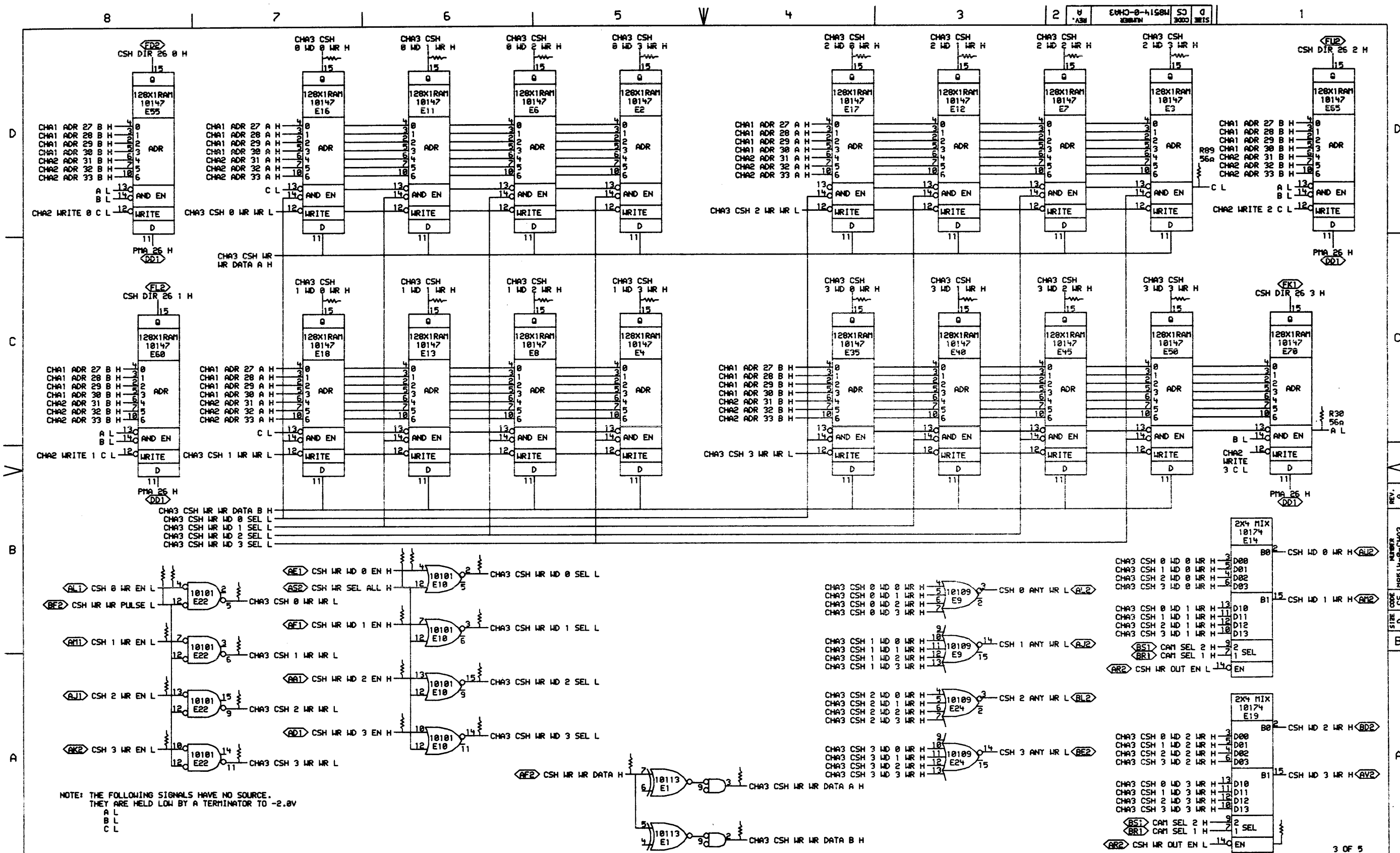


2 OF 5

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REVISIONS		
CHK	CHANGE NO.	REV
1	1	1

digit@l	DATE	ENG.	DATE	TITLE:
	09-11-77	John	12-16-77	CACHE DIR
CHAZEX.DRW 4,541.1	DATE	BOARD LOCATION:	DATE	CSH 2,3 BIT 14-25
105-TIA-77	13/04	1	1	
FIRST USED ON OPTION/MODEL:	KL10	NEXT HIGHER ASSEMBLY:	B-DD-M8514-0	SIZE CODE NUMBER REV.
				D CS M8514-0-CHA2 A



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REVISIONS		
CHK	CHANGE NO.	REV
1	1	A

digital		DATE	ENG	DATE	TITLE:
11-MAY-77		11-MAY-77		CACHE DIR	
11-MAY-77		11-MAY-77		BIT 26 & WR BITS	
FIRST USED ON OPTION/MODEL: KL10		B-DD-M8514-0		SIZE	CODE
				D	CS
				M8514-0-CHA3	
				NUMBER	REV.
					A

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1

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B

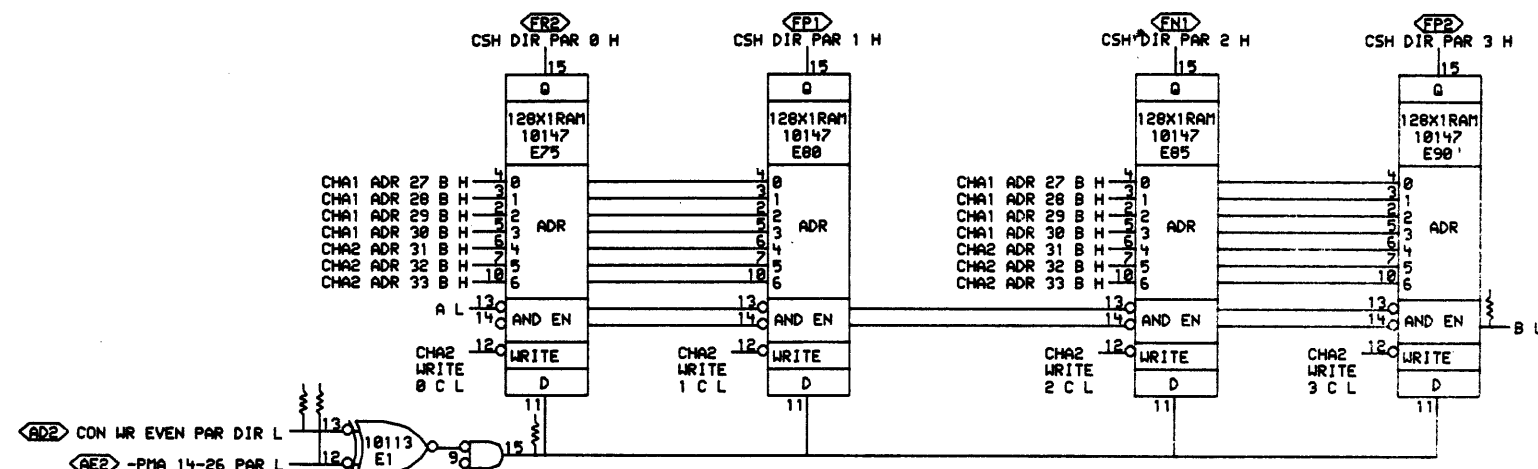
A

D

C

B

A



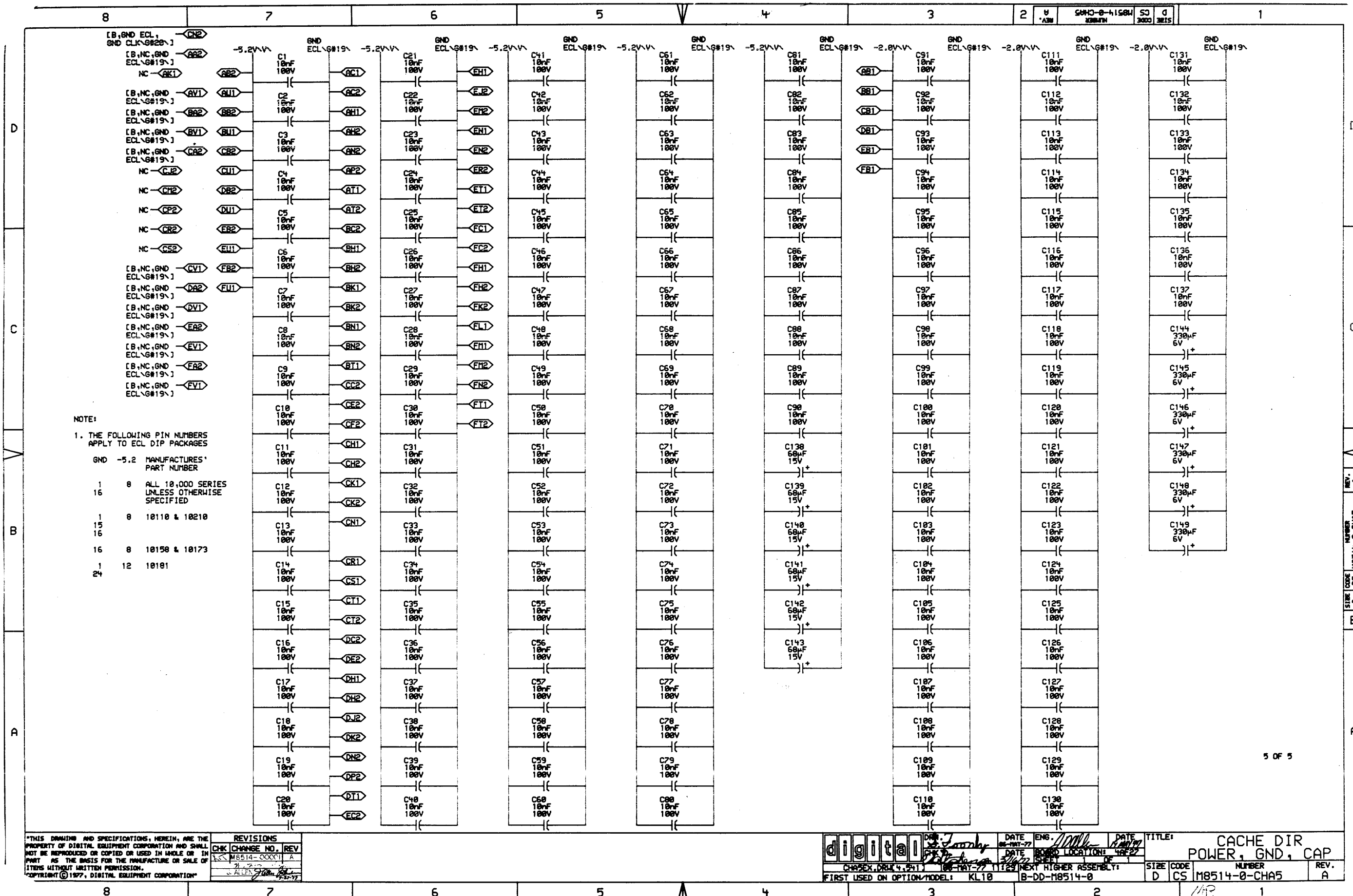
- FS2 PT WRITABLE H
FS1 CHA TERM 01\#400
FR1 -PT MATCH H
FF1 CHA TERM 03\#400
BR2 CHA TERM 04\#400
BP2 CHA TERM 05\#400
FE2 CHA TERM 06\#400
FJ2 CHA TERM 07\#400
BS2 CHA TERM 08\#400
BL2 CHA TERM 09\#400
BV2 CHA TERM 10\#400
BT2 CHA TERM 11\#400
FV2 PT SOFTWARE H
FE2 PT ACCESS H

NOTE: CHA TERMS ARE SPARE
TERMINATORS

4 OF 5

REVISIONS		
CHK	CHANGE NO.	REV
KL	M8514-00001	A
J. ALLEN		

digital	DATE	ENG.	DATE	TITLE:
	11-MAY-77	KL	15-MAY-77	CACHE DIR PARITY BITS
CH4EX.DRM(4,541)	DATE	BOARD LOCATION:	48F27	
FIRST USED ON OPTION/MODEL:	KL10	B-DD-M8514-0		
SIZE	CODE	NUMBER	REV.	
D	CS	M8514-0-CHA4	A	



NOTE:
1. THE FOLLOWING PIN NUMBERS
APPLY TO ECL DIP PACKAGES

GND	-5.2	MANUFACTURES'
1	8	ALL 10,000 SERIES
16		UNLESS OTHERWISE
		SPECIFIED
1	8	10110 & 10210
15		
16		
1	8	10150 & 10173
16		
1	12	10101
24		

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REVISIONS	
CHK	CHANGE NO. REV
1	10110-00001 A
2	10110-00002 B
3	10110-00003 C

digital	DATE: 10-11-77	ENG: J. J. J.	DATE: 10-11-77	TITLE: CACHE DIR POWER, GND, CAP
CHAP. 4, 2.11	10-11-77	1123	NEXT HIGHER ASSEMBLY:	SIZE CODE: D CS
FIRST USED ON OPTION/MODEL: KL10	B-DD-M8514-0	NUMBER: M8514-0-CHA5	REV: A	

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V

538-0-1158W

SC

0

2000

2015

D

RESISTOR LOC(PIN)	SHOWN DRUM	ON REF	VALUE	TERMINATES SIGNAL
R32(1)	CHA4	C6	60n	%E1(15)
R110(1)	CHA2	B1	56n	%E31(13)
R111(1)	CHA2	B1	56n	%E31(14)
R88(1)	CHA2	D1	56n	%E32(13)
R81(1)	CHA2	D1	56n	%E32(14)
R65(1)	CHA1	B1	56n	%E33(13)
R66(1)	CHA1	B1	56n	%E33(14)
R47(1)	CHA1	D1	56n	%E34(13)
R48(1)	CHA1	C1	56n	%E34(14)
R38(1)	CHA3	C1	56n	-A H
R29(1)	CHA4	C3	60n	-B H
R89(1)	CHA3	D2	56n	-C H
R124(1)	CHA4	C6	60n	CHA TERM 01
R115(1)	CHA4	B6	60n	CHA TERM 03
R105(1)	CHA4	B6	60n	CHA TERM 04
R104(1)	CHA4	B6	60n	CHA TERM 05
R116(1)	CHA4	B6	60n	CHA TERM 06
R113(1)	CHA4	B6	60n	CHA TERM 07
R106(1)	CHA4	B6	60n	CHA TERM 08
R102(1)	CHA4	B6	60n	CHA TERM 09
R103(1)	CHA4	B6	60n	CHA TERM 10
R107(1)	CHA4	B6	60n	CHA TERM 11
R55(1)	CHA1	B7	56n	CHA1 ADR 27 0 H
R72(1)	CHA1	B7	56n	CHA1 ADR 27 1 H
R87(1)	CHA1	B7	56n	CHA1 ADR 27 2 H
R121(1)	CHA1	A7	56n	CHA1 ADR 27 3 H
R48(1)	CHA1	A7	56n	CHA1 ADR 27 A H
R38(1)	CHA1	A7	56n	CHA1 ADR 27 B H
R54(1)	CHA1	A7	56n	CHA1 ADR 28 0 H
R71(1)	CHA1	A7	56n	CHA1 ADR 28 1 H
R86(1)	CHA1	A7	56n	CHA1 ADR 28 2 H
R120(1)	CHA1	A7	56n	CHA1 ADR 28 3 H
R7(1)	CHA1	A7	56n	CHA1 ADR 28 A H
R34(1)	CHA1	A7	56n	CHA1 ADR 28 B H
R53(1)	CHA1	B5	56n	CHA1 ADR 29 0 H
R78(1)	CHA1	B4	56n	CHA1 ADR 29 1 H
R85(1)	CHA1	B4	56n	CHA1 ADR 29 2 H
R119(1)	CHA1	A5	56n	CHA1 ADR 29 3 H
R76(1)	CHA1	A4	56n	CHA1 ADR 29 A H
R28(1)	CHA1	A4	56n	CHA1 ADR 29 B H

RESISTOR LOC(PIN)	SHOWN DRUM	ON REF	VALUE	TERMINATES SIGNAL
R56(1)	CHA1	A5	56n	CHA1 ADR 30 0 H
R73(1)	CHA1	A4	56n	CHA1 ADR 30 1 H
R88(1)	CHA1	A4	56n	CHA1 ADR 30 2 H
R122(1)	CHA1	A5	56n	CHA1 ADR 30 3 H
R74(1)	CHA1	A4	56n	CHA1 ADR 30 A H
R33(1)	CHA1	A4	56n	CHA1 ADR 30 B H
R52(1)	CHA2	B7	56n	CHA2 ADR 31 0 H
R69(1)	CHA2	B7	56n	CHA2 ADR 31 1 H
R84(1)	CHA2	B6	56n	CHA2 ADR 31 2 H
R118(1)	CHA2	B7	56n	CHA2 ADR 31 3 H
R75(1)	CHA2	B7	56n	CHA2 ADR 31 A H
R37(1)	CHA2	B6	56n	CHA2 ADR 31 B H
R51(1)	CHA2	A7	56n	CHA2 ADR 32 0 H
R68(1)	CHA2	A7	56n	CHA2 ADR 32 1 H
R83(1)	CHA2	A6	56n	CHA2 ADR 32 2 H
R117(1)	CHA2	A7	56n	CHA2 ADR 32 3 H
R39(1)	CHA2	A7	56n	CHA2 ADR 32 A H
R35(1)	CHA2	A6	56n	CHA2 ADR 32 B H
R50(1)	CHA2	B5	56n	CHA2 ADR 33 0 H
R67(1)	CHA2	B4	56n	CHA2 ADR 33 1 H
R82(1)	CHA2	B4	56n	CHA2 ADR 33 2 H
R112(1)	CHA2	B5	56n	CHA2 ADR 33 3 H
R5(1)	CHA2	B4	56n	CHA2 ADR 33 A H
R36(1)	CHA2	B4	56n	CHA2 ADR 33 B H
R46(1)	CHA2	B2	60n	-CHA2 WRITE 0 A H
R49(1)	CHA2	B2	60n	-CHA2 WRITE 0 B H
R27(1)	CHA2	B2	60n	-CHA2 WRITE 0 C H
R63(1)	CHA2	B2	60n	-CHA2 WRITE 1 A H
R64(1)	CHA2	B2	60n	-CHA2 WRITE 1 B H
R127(1)	CHA2	B2	60n	-CHA2 WRITE 1 C H
R78(1)	CHA2	A2	60n	-CHA2 WRITE 2 A H
R79(1)	CHA2	A2	60n	-CHA2 WRITE 2 B H
R128(1)	CHA2	A2	60n	-CHA2 WRITE 2 C H
R108(1)	CHA2	A2	60n	-CHA2 WRITE 3 A H
R109(1)	CHA2	A2	60n	-CHA2 WRITE 3 B H
R31(1)	CHA2	A2	60n	-CHA2 WRITE 3 C H
R3(1)	CHA3	D7	60n	CHA3 CSH 0 MD 0 WR H
R4(1)	CHA3	D6	60n	CHA3 CSH 0 MD 1 WR H
R13(1)	CHA3	D5	60n	CHA3 CSH 0 MD 2 WR H
R15(1)	CHA3	D5	60n	CHA3 CSH 0 MD 3 WR H

RESISTOR LOC(PIN)	SHOWN DRUM	ON REF	VALUE	TERMINATES SIGNAL
R98(1)	CHA3	B7	60n	-CHA3 CSH 0 WR WR H
R2(1)	CHA3	C7	60n	CHA3 CSH 1 MD 0 WR H
R1(1)	CHA3	C6	60n	CHA3 CSH 1 MD 1 WR H
R14(1)	CHA3	C5	60n	CHA3 CSH 1 MD 2 WR H
R18(1)	CHA3	C5	60n	CHA3 CSH 1 MD 3 WR H
R6(1)	CHA3	A7	60n	-CHA3 CSH 1 WR WR H
R16(1)	CHA3	D4	60n	CHA3 CSH 2 MD 0 WR H
R17(1)	CHA3	D3	60n	CHA3 CSH 2 MD 1 WR H
R19(1)	CHA3	D2	60n	CHA3 CSH 2 MD 2 WR H
R18(1)	CHA3	D2	60n	CHA3 CSH 2 MD 3 WR H
R37(1)	CHA3	A7	60n	-CHA3 CSH 2 WR WR H
R8(1)	CHA3	C4	60n	CHA3 CSH 3 MD 0 WR H
R9(1)	CHA3	C3	60n	CHA3 CSH 3 MD 1 WR H
R42(1)	CHA3	C2	60n	CHA3 CSH 3 MD 2 WR H
R11(1)	CHA3	C2	60n	CHA3 CSH 3 MD 3 WR H
R26(1)	CHA3	A7	60n	-CHA3 CSH 3 WR WR H
R20(1)	CHA3	B6	60n	-CHA3 CSH WR MD 0 SEL H
R22(1)	CHA3	B6	60n	-CHA3 CSH WR MD 1 SEL H
R23(1)	CHA3	A6	60n	-CHA3 CSH WR MD 2 SEL H
R24(1)	CHA3	A6	60n	-CHA3 CSH WR MD 3 SEL H
R58(1)	CHA3	A4	60n	CHA3 CSH WR WR DATA A H
R25(1)	CHA3	A4	60n	CHA3 CSH WR WR DATA B H
R91(1)	CHA4	C7	60n	-CON WR EVEN PAR DIR H
R44(1)	CHA3	B8	60n	-CSH 0 WR EN H
R41(1)	CHA3	B8	60n	-CSH 1 WR EN H
R60(1)	CHA3	A8	60n	-CSH 2 WR EN H
R61(1)	CHA3	A8	60n	-CSH 3 WR EN H
R43(1)	CHA2	B2	60n	-CSH ADR WR PULSE H
R12(1)	CHA3	A1	60n	-CSH WR OUT EN H
R90(1)	CHA3	B6	60n	CSH WR SEL ALL H
R96(1)	CHA3	B6	60n	CSH WR MD 0 EN H
R97(1)	CHA3	B6	60n	CSH WR MD 1 EN H
R95(1)	CHA3	A6	60n	CSH WR MD 2 EN H
R94(1)	CHA3	A6	60n	CSH WR MD 3 EN H
R93(1)	CHA3	A5	60n	CSH WR WR DATA H
R99(1)	CHA3	B8	60n	-CSH WR WR PULSE H
R99(1)	CHA1	B7	60n	MBX CSH ADR 27 H
R100(1)	CHA1	A7	60n	MBX CSH ADR 28 H
R62(1)	CHA1	B5	60n	MBX CSH ADR 29 H
R45(1)	CHA1	A5	60n	MBX CSH ADR 30 H

RESISTOR LOC(PIN)	SHOWN DRUM	ON REF	VALUE	TERMINATES SIGNAL
R21(1)	CHA2	B7	60n	MBX CSH ADR 31 H
R101(1)	CHA2	A7	60n	MBX CSH ADR 32 H
R77(1)	CHA2	B5	60n	MBX CSH ADR 33 H
R92(1)	CHA4	C7	60n	PMA 14-26 PAR H
R114(1)	CHA4	B6	60n	PT ACCESS H
R123(1)	CHA4	C6	60n	-PT MATCH H
R126(1)	CHA4	B6	60n	PT SOFTWARE H
R125(1)	CHA4	C6	60n	PT WRITABLE H

D

C

V

A

NOTE:

1. ALL TERMINATORS HAVE PIN TWO CONNECTED TO -2.0V AND ARE 5% 1/4WATT UNLESS OTHERWISE SPECIFIED
2. ENTRIES ARE SORTED BY SIGNAL NAME
3. % INDICATES OUTPUT OF DIP LOC AND (>) INDICATES PIN NUMBER

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REVISIONS		
CHK	CHANGE NO.	REV
J. J. MESA	00001	A

digital	DRN. <i>Smith</i>	DATE <i>8-18-77</i>	ENG. <i>Smith</i>	DATE <i>8-18-77</i>	TITLE: CACHE DIR TERMINATORS
	DESIGNED BY <i>Smith</i>	DATE <i>8-18-77</i>	LOCATED BY <i>Smith</i>	DATE <i>8-18-77</i>	
FIRST USED ON OPTION/MODEL: KL10		NEXT HIGHER ASSEMBLY: B-DD-M8514-0		SIZE D	CODE CS
				NUMBER M8514-0-RES	REV. A

8

7

6

5

V

4

3

2

MR

1