

FIELD MAINTENANCE PRINT SET TABLE OF CONTENTS

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

MCA25
MCA25-AA
MCA25-AB

MCA25
FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION

PRINT SET ORDER NO.
MP01910-01

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REVISIONS
CHK CHANGE NO. REV

digital	DRN	DATE	ENG.	DATE	TITLE:
	<i>J. J. J.</i>	26-JUL-84	C. A. JENS	26-JUL-84	MCA25 CACHE PAGER
	CHK'D	DATE	BOARD LOCATION:		
	G. ALSTON	26-JUL-84	N/A		
			SHEET	OF	
			1	4	
DSK:MCATC.T2P[4,21]			26-JUL-84 15:41		NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MCA25			KL10-PW		
SIZE	CODE	NUMBER	REV.		
D	TC	MCA25-0-1	A		

REV. P.
NUMBER
MCA25-0-1
D
B

MR

DOCUMENT NUMBER

REV DESCRIPTION

D-TC-MCA25-0-1	A	MCA25 FIELD MAINT. PRINT SET (TC)
D-MU-KL10-PW-CPU	A	MODULE UTILIZATION
D-SP-KL10-PW-2	A	OPTION/SERIAL NUMBER CHART

OPTION MODULES (C.S.)

DOCUMENT NUMBER

REV DESCRIPTION

D-DD-M852-0	A	CACHE DIRECTORY
E-LA-M852-0-0	A	CACHE DIRECTORY
D-CS-M852-0-CHA1	A	CACHE DIRECTORY
D-CS-M852-0-CHA2	A	CACHE DIRECTORY
D-CS-M852-0-CHA3	A	CACHE DIRECTORY
D-CS-M852-0-RES	A	CACHE DIRECTORY

D-DD-M853-0	A	CACHE EXTENSION
D-LA-M853-0-0	A	CACHE EXTENSION
D-CS-M853-CHX1	A	CACHE EXTENSION
D-CS-M853-CHX2	A	CACHE EXTENSION
D-CS-M853-CHX3	A	CACHE EXTENSION
D-CS-M853-CHX4	A	CACHE EXTENSION
D-CS-M853-CHX5	A	CACHE EXTENSION
D-CS-M853-RES	A	CACHE EXTENSION

D-DD-M854-0	A	PHYSICAL MEM ADR
D-LA-M854-0-0	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA1	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA2	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA3	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA4	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA5	A	PHYSICAL MEM ADR
D-CS-M854-0-PMA6	A	PHYSICAL MEM ADR
D-CS-M854-0-RES	A	PHYSICAL MEM ADR

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. <i>G. Alston</i>	DATE	ENG.	DATE	TITLE:
	CHK'D. G. ALSTON	26-JUL-84	C. A. JENS	26-JUL-84	MCA25 CACHE PAGER
DSK:MCATC.T2P(4,21)		DATE	BOARD LOCATION:	N/A	
FIRST USED ON OPTION/MODEL: MCA25		26-JUL-84 15:41	26-JUL-84	SHEET 2 OF 4	
		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
		KL10-PW		D TC	MCA25-0-1

REV.	A
NUMBER	MCA25-0-1
SIZE CODE	D TC
REV.	A

OPTION MODULES (C.S.) CONTINUED

DOCUMENT NUMBER REV DESCRIPTION

D-DD-M855-0 A PAGING BOARD SHEET 1
E-LA-M855-0-0 A1 PAGING BOARD (MULTIWIRE)
D-CS-M855-0-PAG1 A1 PAGING BOARD
D-CS-M855-0-PAG2 A1 PAGING BOARD
D-CS-M855-0-PAG3 A1 PAGING BOARD
D-CS-M855-0-PAG4 A1 PAGING BOARD
D-CS-M855-0-PAG5 A1 PAGING BOARD
D-CS-M855-0-PAG6 A1 PAGING BOARD
D-CS-M855-0-PAG7 A1 PAGING BOARD
D-CS-M855-0-PAG8 A1 PAGING BOARD
D-CS-M855-0-PAG9 A1 PAGING BOARD
D-CS-M855-0-PAGA A1 PAGING BOARD
D-CS-M855-0-PAGB A1 PAGING BOARD
D-CS-M855-0-RES A1 PAGING BOARD

D-DD-M855-0 A PAGING BOARD SHEET 2
D-LA-M855-0-0 B PAGING BOARD (ETCH)
D-CS-M855-0-PAG1 B PAGING BOARD
D-CS-M855-0-PAG2 B PAGING BOARD
D-CS-M855-0-PAG3 B PAGING BOARD
D-CS-M855-0-PAG4 B PAGING BOARD
D-CS-M855-0-PAG5 B PAGING BOARD
D-CS-M855-0-PAG6 B PAGING BOARD
D-CS-M855-0-PAG7 B PAGING BOARD
D-CS-M855-0-PAG8 B PAGING BOARD
D-CS-M855-0-PAG9 B PAGING BOARD
D-CS-M855-0-PAGA B PAGING BOARD
D-CS-M855-0-PAGB B PAGING BOARD
D-CS-M855-0-RES B PAGING BOARD

D-DD-M856-0 A CACHE DATA
D-LA-M856-0-0 A CACHE DATA
D-CS-M856-0-CHD1 A CACHE DATA
D-CS-M856-0-CHD2 A CACHE DATA
D-CS-M856-0-CHD3 A CACHE DATA
D-CS-M856-0-CHD4 A CACHE DATA
D-CS-M856-0-CHD5 A CACHE DATA
D-CS-M856-0-CHD6 A CACHE DATA
D-CS-M856-0-CHD7 A CACHE DATA
D-CS-M856-0-CHD8 A CACHE DATA
D-CS-M856-0-RES A CACHE DATA

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Table with 3 columns: CHK, CHANGE NO., REV. It contains a single row with empty cells.

Table with 3 columns: REVISIONS, DATE, BOARD LOCATION. It contains a single row with empty cells.

digital logo, DRW: J. Jansky, DATE: 26-JUL-84, ENG: C. A. JENS, DATE: 26-JUL-84, CHK'D: G. ALSTON, DATE: 26-JUL-84, SHEET: 3 OF 4, BOARD LOCATION: N/A

Table with 4 columns: TITLE, SIZE CODE, NUMBER, REV. TITLE: MCA25 CACHE PAGER, SIZE CODE: D TC, NUMBER: MCA25-0-1, REV: A

OPTION MODULES (C.S) CONTINUED

DOCUMENT NUMBER REV DESCRIPTION

D-DD-M857-0	A	MBC MBOX CONTROL
D-LA-M857-0-0	A	MBC MBOX CONTROL
D-CS-M857-0-MBC1	A	MBC MBOX CONTROL
D-CS-M857-0-MBC2	A	MBC MBOX CONTROL
D-CS-M857-0-MBC3	A	MBC MBOX CONTROL
D-CS-M857-0-MBC4	A	MBC MBOX CONTROL
D-CS-M857-0-MBC5	A	MBC MBOX CONTROL
D-CS-M857-0-MBC6	A	MBC MBOX CONTROL
D-CS-M857-0-RES	A	MBC MBOX CONTROL

D
C
B
A

D
C
B
A

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REVISIONS		
CHK	CHANGE NO.	REV

	DRN. <i>J. Family</i> CHK'D. <i>G. ALSTON</i>	DATE 26-JUL-84 DATE 26-JUL-84	ENG. C. A. JENS BOARD LOCATION: N/A	DATE 26-JUL-84	TITLE: MCA25 CACHE PAGER
	DSK: MCA25.TEPL4,213 FIRST USED ON OPTION/MODEL: MCA25	26-JUL-84 15:42 NEXT HIGHER ASSEMBLY: KL10-PW	SHEET 4 OF 4	SIZE CODE D TC	NUMBER MCA25-0-1

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DISP KLI0-PW-2

FOR EACH OPTION OR SERIAL NUMBER WIRE THE SOURCE LISTED ABOVE THE OPTION OR SERIAL NUMBER BIT TO THE SOURCE TO MAKE THE BIT TRUE.

OPTIONS:

SOURCE:		4D44E1
OPTIONS:	50HZ	4E43M2
	CACHE AVAIL	4E43A1
	CHANNEL AVAIL	4E43E1
	EXTENDED ADDRESSING CPU	4D43D2
	MASTER OSCILLATOR	4D43E1
	MCA 25	4E43F2

SERIAL NO'S

SOURCE:		4D42E1
	2048	4E41M2
	1024	4E41A1
	512	4E41E1
	256	4D41D2
	128	4D41E1
	64	4E41F2

SERIAL NO'S

SOURCE:		4D40E1
	32	4E39M2
	16	4E39A1
	8	4E39E1
	4	4D39D2
	2	4D39E1
	1	4E39F2

DESCRIPTION		DRAWING NO.		PART NO.		REV. NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC. STD 114)							
INCHES TOLERANCES		ANGLES ± 0°30'		APPLICABLE DIMENSION RANGE			
X = ± .1		SURFACE QUALITY		DIMENSION RANGE IN INCHES			
XX = ± .02		✓		OVER OVER OVER OVER OVER OVER			
XXX = ± .005		MICROFINISH		10 0.2 1.2 4.0 12.0 40.0			
✓		✓		.01 .02 .05 .10 .15 .20			
✓		✓		.004 .008 .012 .016 .020			
THIRD ANGLE PROJECTION		DATE 6-18-84		TITLE digital			
DO NOT SCALE DRAWING		DATE 6-29-84		OPTION/SERIAL NUMBER CHART			
REMOVE SURFS AND BREAK SHARP CORNERS		DATE 4-21-84		DOCUMENT NUMBER			
MATERIAL		DATE 4-20-84		DISP KLI0-PW-2			
FINISH		DATE 29 JUN 84		SCALE 1 OF 1			
		TOP SEC. NO. B-DD-KLI0-PW		SHEET 1 OF 1			

REV.	DESCRIPTION	DATE

DISP KLI0-PW-2

digital

MR

DRAWING NUMBER	NO.OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M852-00	MODULE REVISION	A1
E-UA-M852-0-0	1		CHA	A
K-PL-M852-0-DBP	1		PART LIST, M852	A
D-CS-M852-0-CHA1	1		CACHE DIR 0-3 BITS 14-25	A
D-CS-M852-0-CHA2	1		CACHE DIR PARITY & WR BITS	A
D-CS-M852-0-CHA3	1		CACHE DIR POWER, GND, CAP	A
D-CS-M852-0-RES	1		CACHE DIRECTORY TERMINATORS	A
K-PC-M852-0-DBM	-		MULTIWIRE DESIGN DATA BASE TAPE	A
D-DD-5016369-01-0	1		DRAWING DIRECTORY, 5016369-01	REF

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRW. J. Jansky	DATE 27-JUN-84	ENG. C. JENS	DATE 27-JUN-84	TITLE: M852
	CHK'D D. DELORCO	DATE 27-JUN-84	BOARD LOCATION: N/A	SHEET 1 OF 1	DRAWING DIRECTORY
DSK:M852A.T2P14.211		27-JUN-84 13:25	NEXT HIGHER ASSEMBLY: MCA25		SIZE CODE D DD
FIRST USED ON OPTION/MODEL: KL10-PW					NUMBER M852-0

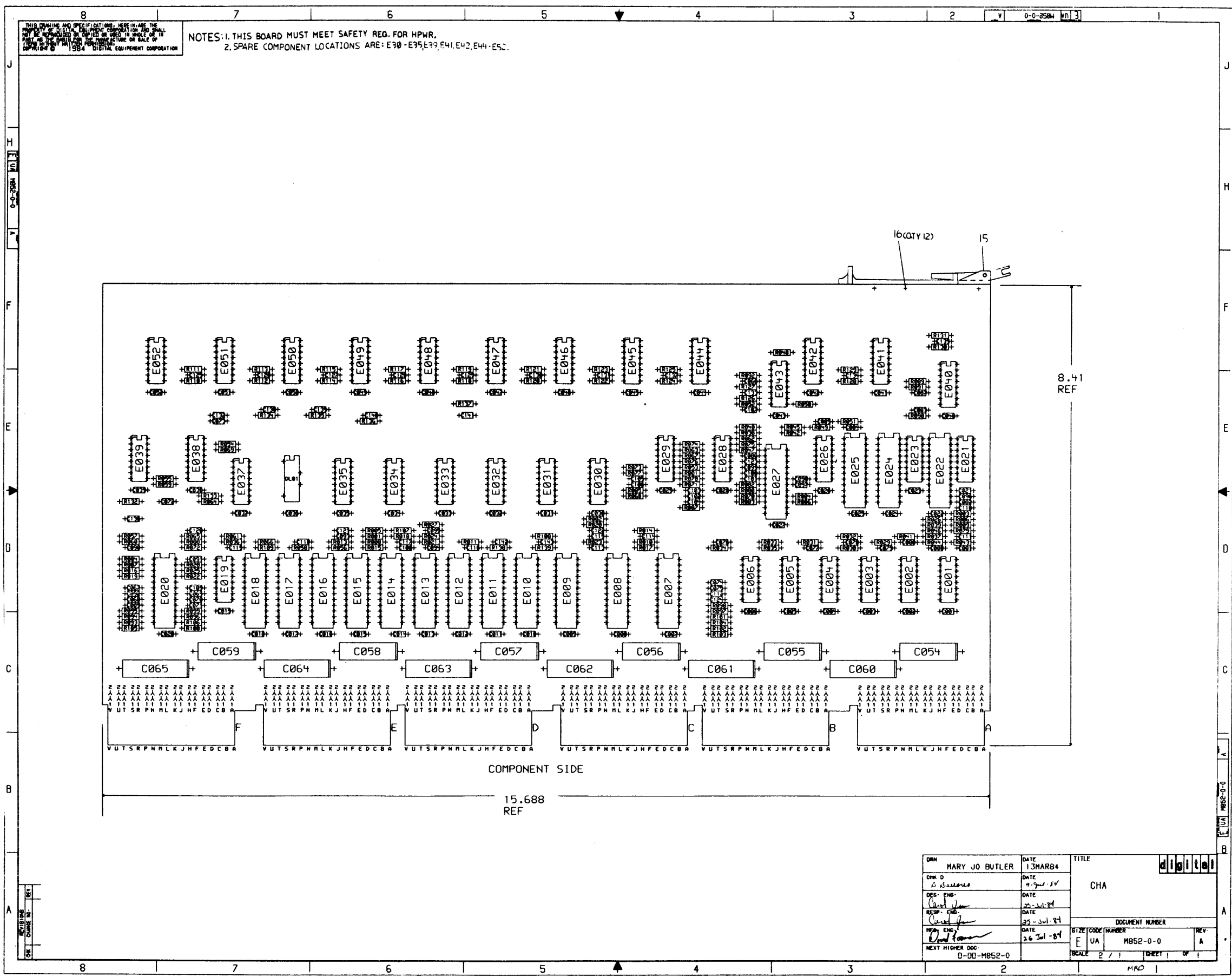
SIZE CODE D DD	NUMBER M852-0	REV. A
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REV. A
NUMBER
M852-0
DD
D
B

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NOTES: 1. THIS BOARD MUST MEET SAFETY REQ. FOR HPWR.
2. SPARE COMPONENT LOCATIONS ARE: E30-E35, E37, E41, E42, E44-E52.

0-0-3584 v1.3



DRW	MARY JO BUTLER	DATE	13MAR84	TITLE	CHA	DOCUMENT NUMBER	REV
CHK'D	S. S. S. S. S.	DATE	9-Jul-84				
DES. ENG.		DATE	25-Jul-84				
RESP. ENG.		DATE	25-Jul-84				
FRG. ENG.		DATE	26-Jul-84				
NEXT HIGHER DOC.	0-00-M852-0						
SCALE	2 / 1	TITLE					

digital

MRO

D

C

B

A

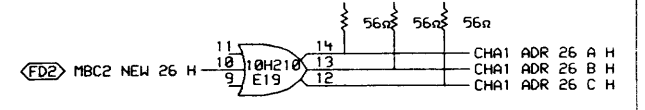
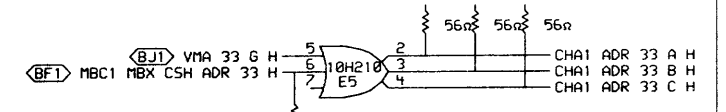
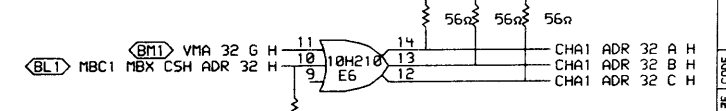
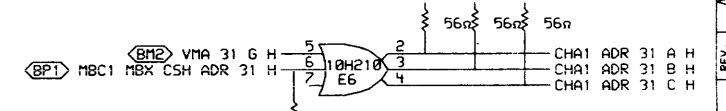
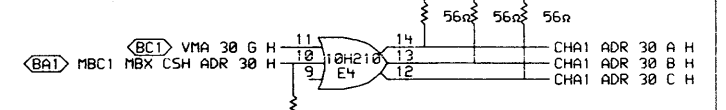
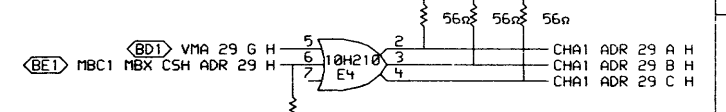
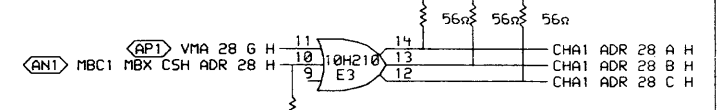
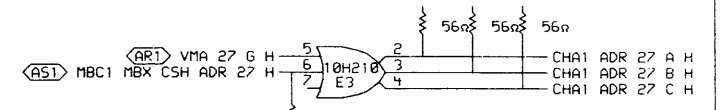
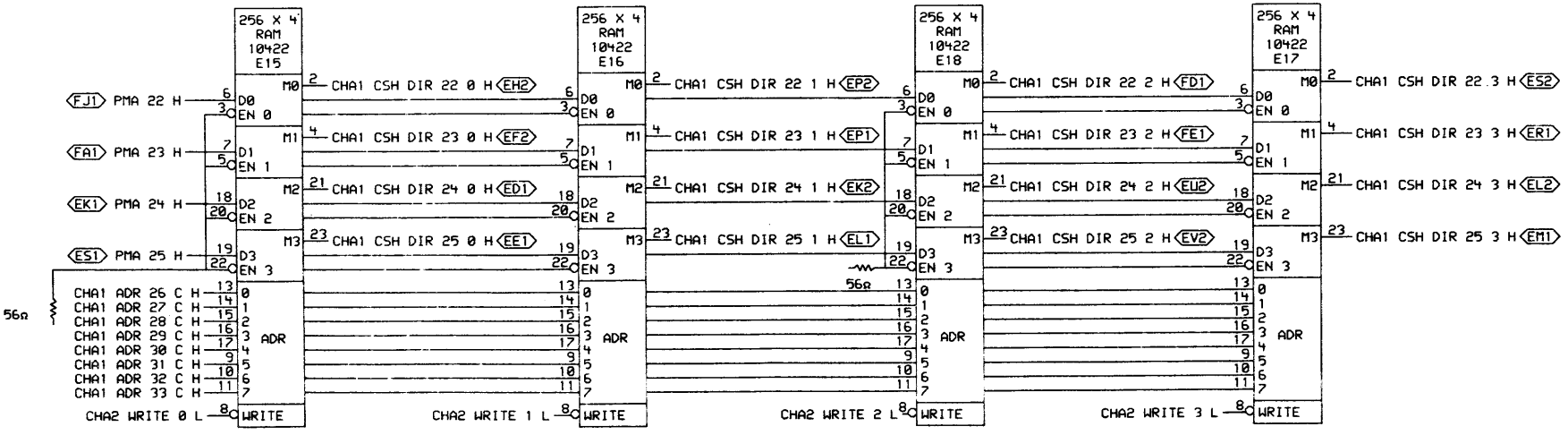
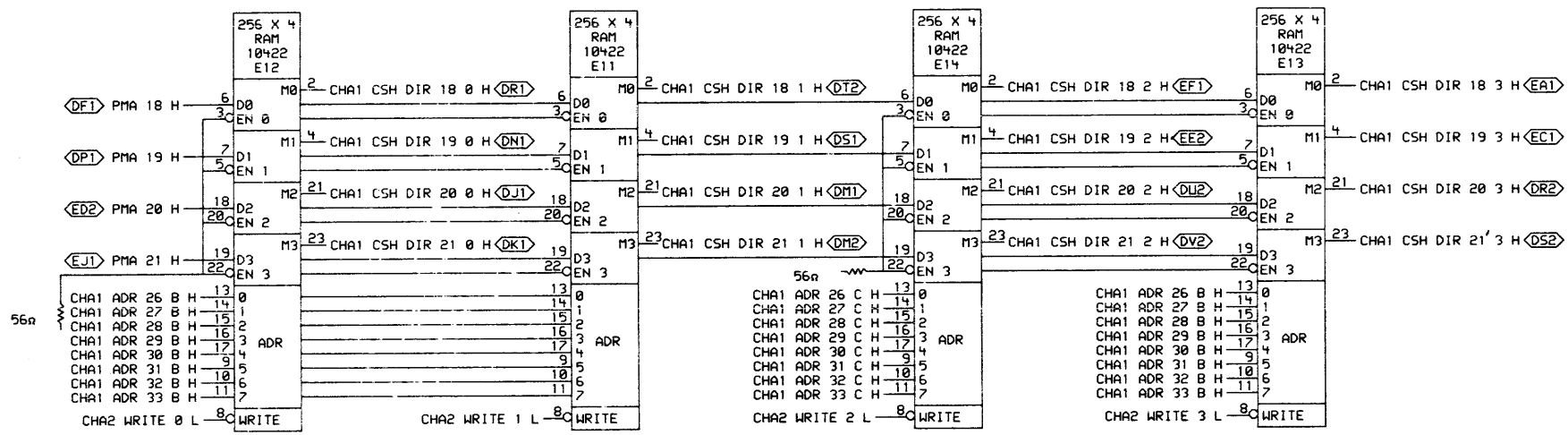
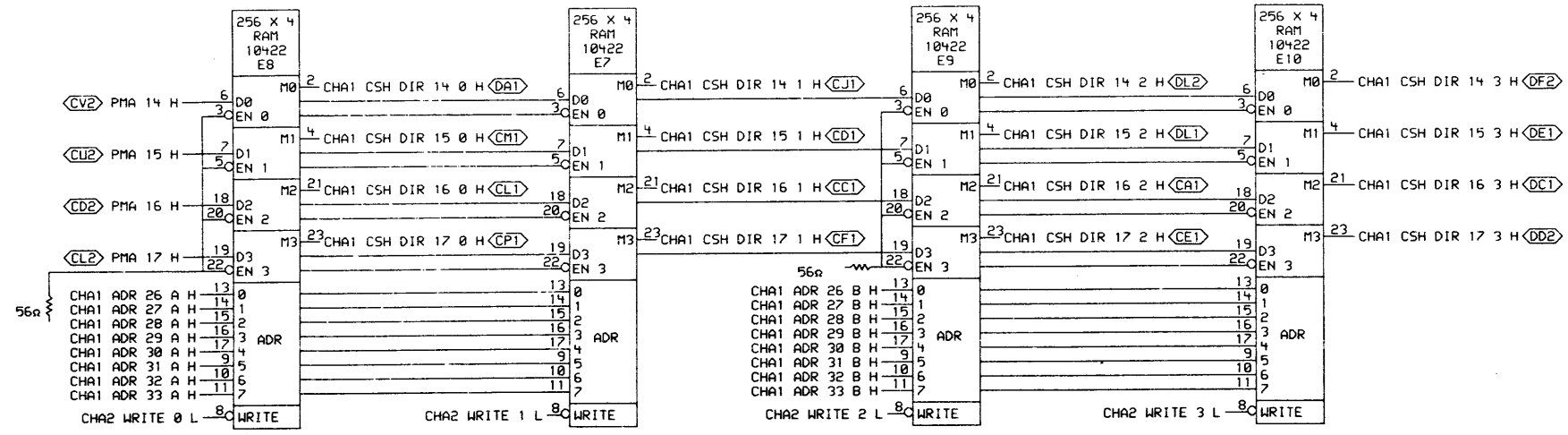
D

C

REV. A

NUMBER M852-0-CHA1
CODE CS
SIZE D
B

A



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REVISIONS		
CHK	CHANGE NO.	REV

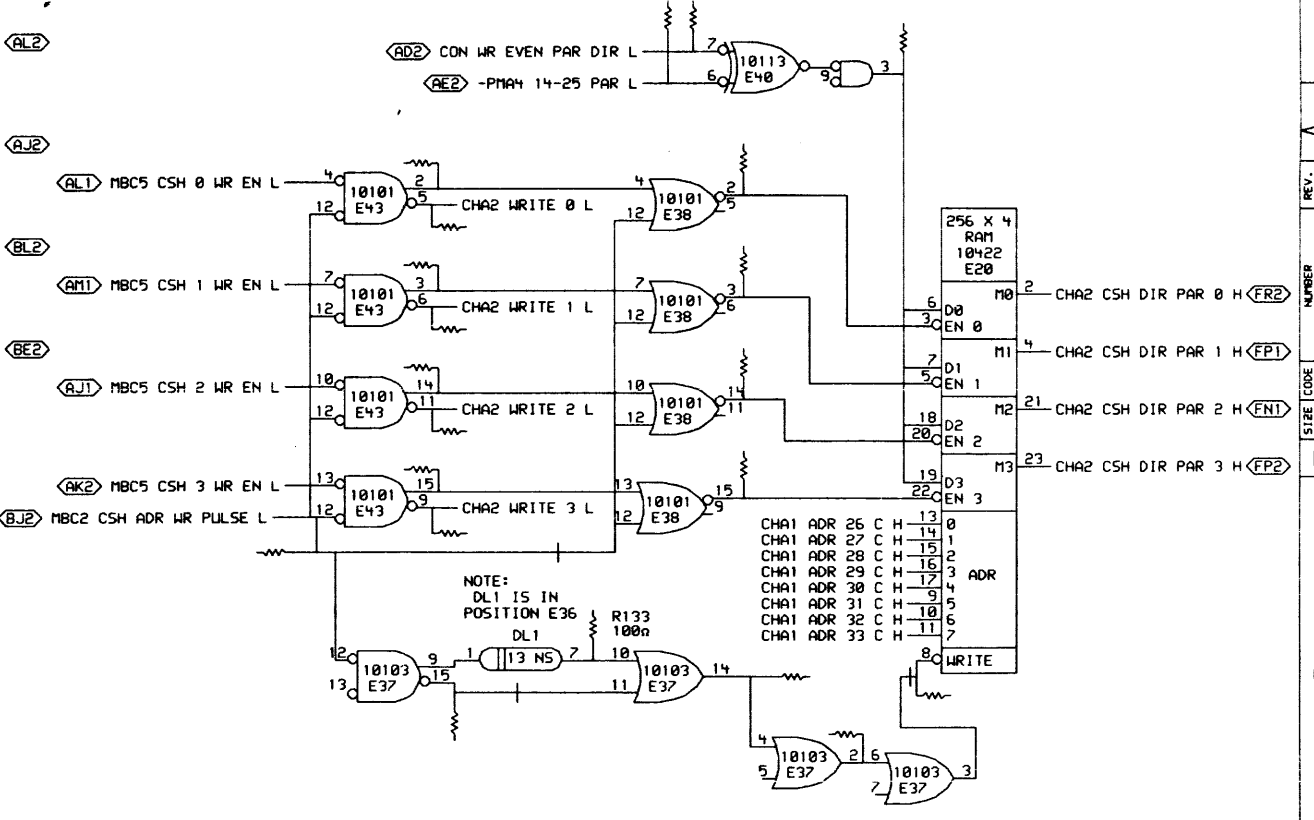
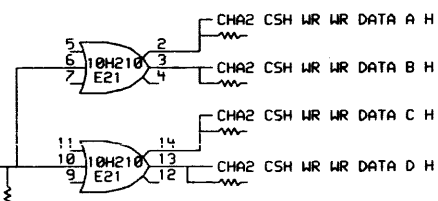
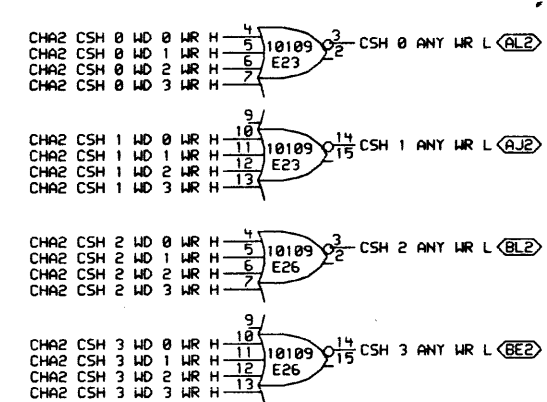
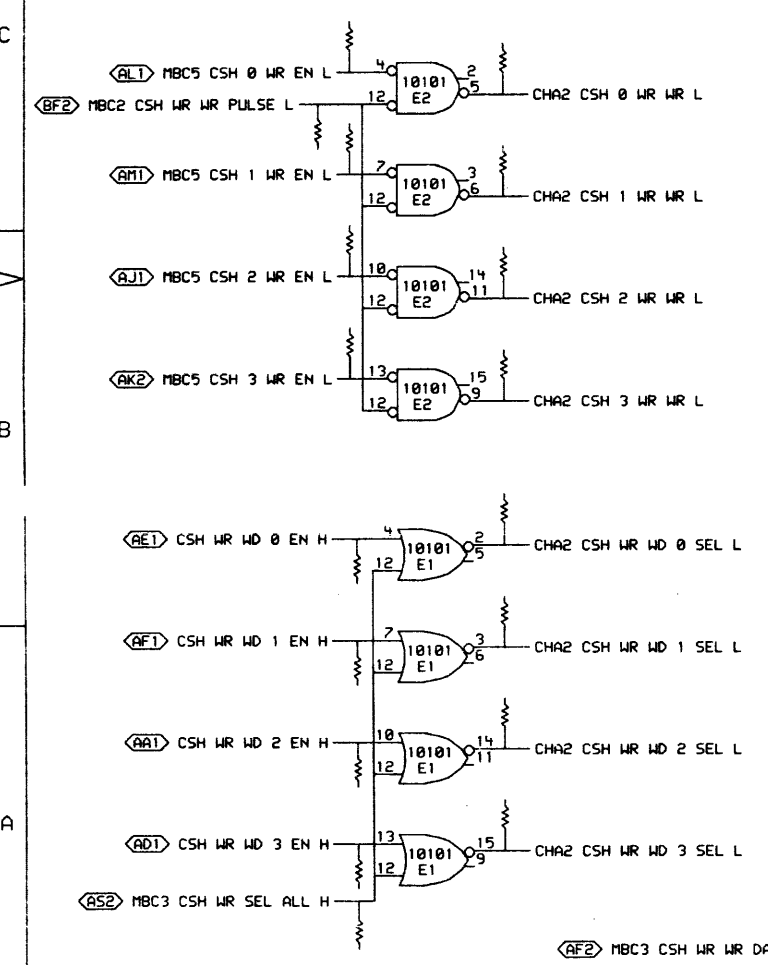
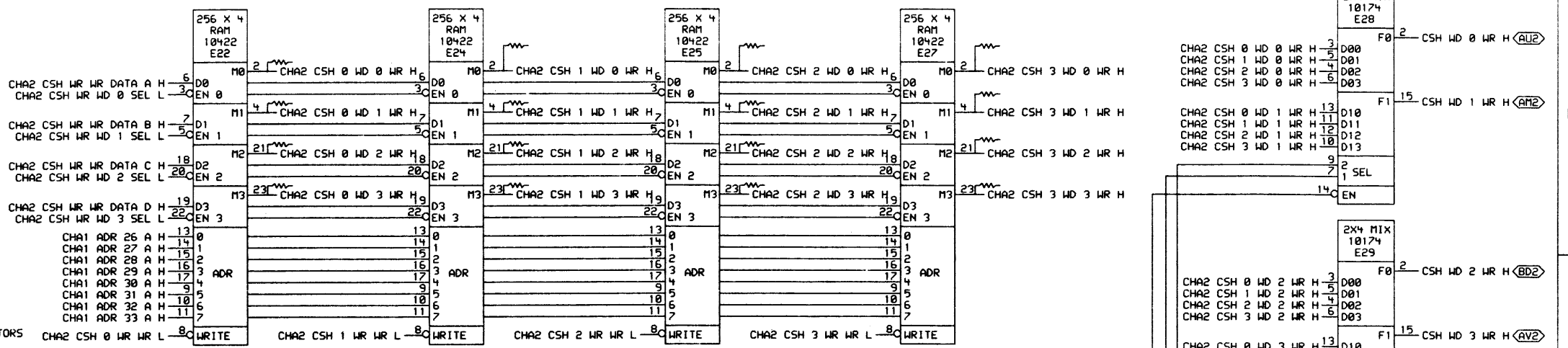
digital
D. DELLORCO

DATE: 02-AUG-84
ENG.: C. A. JENS
DATE: 02-AUG-84
BOARD LOCATION: 4AF27
SHEET: 1 OF 1

TITLE: CACHE DIR 0-3 BITS 14-25
SIZE CODE: D CS
NUMBER: M852-0-CHA1
REV.: A

- (FS2) PAG1 PT WRITEABLE H
- (FS1) CHA TERM 01 #400
- (FR1) -PAG3 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) PAG1 PT SOFTWARE H
- (FF2) PAG1 PT ACCESS H

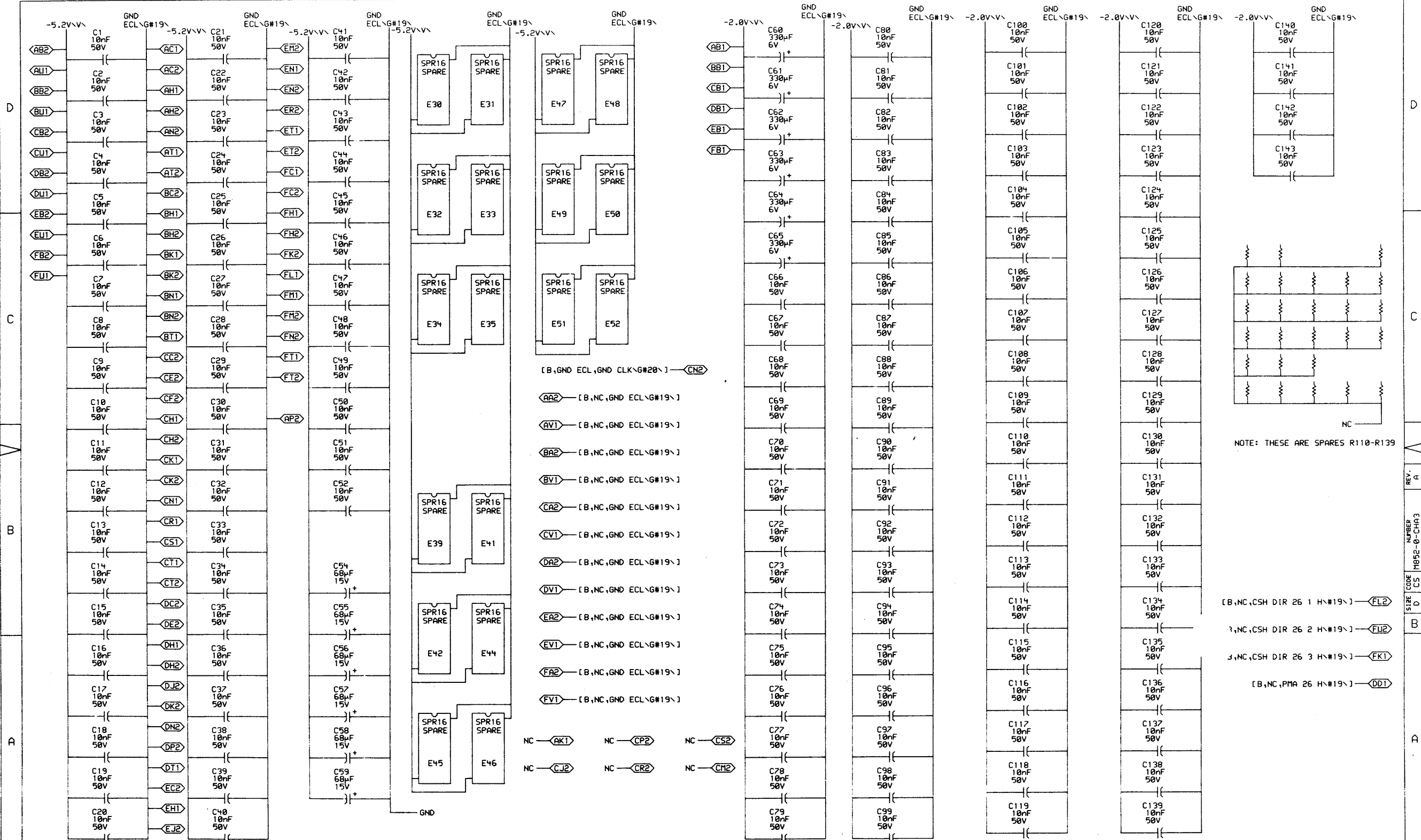
NOTE: CHA TERMS ARE SPARE TERMINATORS



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REVISIONS	CHK	CHANGE NO.	REV

	DATE: 02-AUG-84 ENG: C. A. JENS BOARD LOCATION: 4AF27 DATE: 02-AUG-84 SHEET: 1 OF 1	TITLE: CACHE DIR PARITY & WR BITS
	XTRAI (MCA25, M851) PCNAB, DRW 105-JUL-84 14:11 FIRST USED ON OPTION/MODEL: MCA25	NEXT HIGHER ASSEMBLY: D-DD-M852-0



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REVISIONS	
CHK	CHANGE NO. REV

	DATE: 02-AUG-84	ENG.: C. A. JENS	DATE: 02-AUG-84	TITLE: CACHE DIR POWER, GND, CAP
	CHK'D: D. DELLORCO	DATE: 02-AUG-84	BOARD LOCATION: 4AF27	
XTRA: (MCA25.M852)PCMC.DRW 116-JUL-84 10:50		NEXT HIGHER ASSEMBLY: D-DD-M852-0		
SIZE: D	CODE: CS	NUMBER: M852-0-CHA3	REV.: A	

DRAWING NUMBER	NO.OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M853-00	MODULE REVISION	A1
D-UA-M853-0-0	1		CACHE EXTENSION	A
K-PL-M853-0-DBP	2		PART LIST, M853	A
D-CS-M853-0-CHX1	1		CSH ADR COMPR & VAL BIT MIXER	A
D-CS-M853-0-CHX2	1		CSH VALID BITS AND ADR MIXERS	A
D-CS-M853-0-CHX3	1		CACHE USE BITS ADR BUF & LRU BITS	A
D-CS-M853-0-CHX4	1		CSH DIR PAR NET AND DIAG MIXERS	A
D-CS-M853-0-CHX5	1		CHX POWER, GND, CAP	A
D-CS-M853-0-RES	2		CACHE EXTENSION TERMINATORS	A
K-PC-M853-0-DBI	-		P.C. DESIGN DATA BASE TAPE	A
D-DD-5017667-0	1		DRAWING DIRECTORY, 5017667	REF

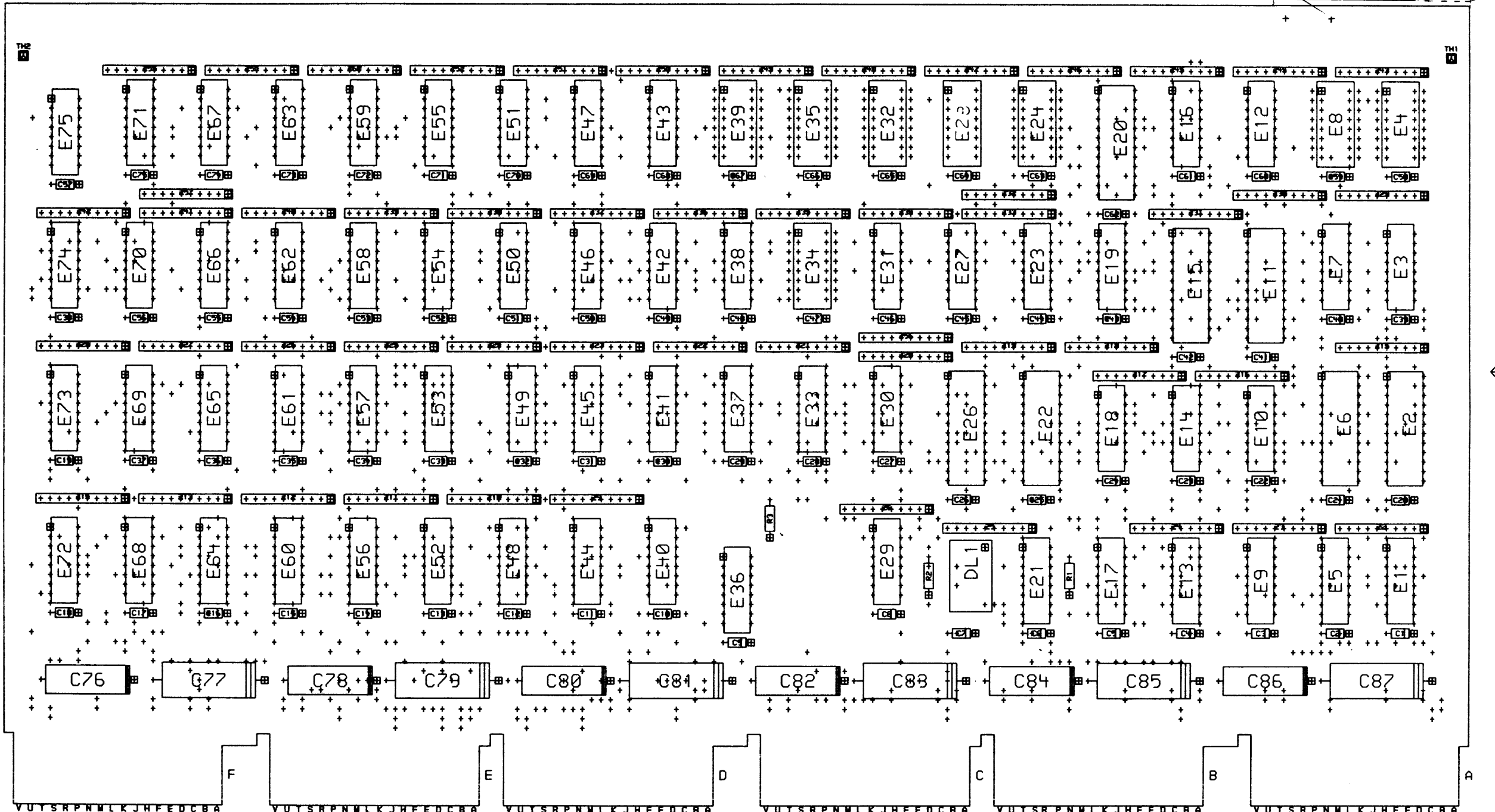
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. <i>J. J. J.</i>	DATE 29-JUN-84	ENG. C. JENS	DATE 29-JUN-84	TITLE: M853
	CHK'D. <i>D. Caunter</i>	DATE 29-JUN-84	BOARD LOCATION: N/A	SHEET 1 OF 1	DRAWING DIRECTORY
DSK: M853A.T2P[4,2] 29-JUN-84 15:54					NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KL10-PW			MCA25	SIZE CODE D DD	NUMBER M853-0
					REV. A

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 1984

20 (QTY 12) COMPONENT SIDE VIEW



NOTES:
 SPARE COMPONENTS: E4, E8, E24, E28, E32, E34, E35, E39, 734, 743, 744, 747 THRU 749

CHANGE NO.	REV.

STEP E	Y AXIS	0	STEP 0	TIMES
REPEAT	X AXIS	0	STEP 0	TIMES

ETCH REV. A1

SIGNATURES	DATE	digital	
DRN.	4/27/84		
CHK'D. R.W. Carter	5/2/84		
MECH. ENG.			
PROJ. ENG.			
PROD.	8-17-84	TITLE	CACHE EXTENSION
SCALE 2/1		SIZE CODE	NUMBER
SHT. 1 OF 1		d U A	M853-0-0
TOP DOC. NO: D-50-M853-0		REV	A

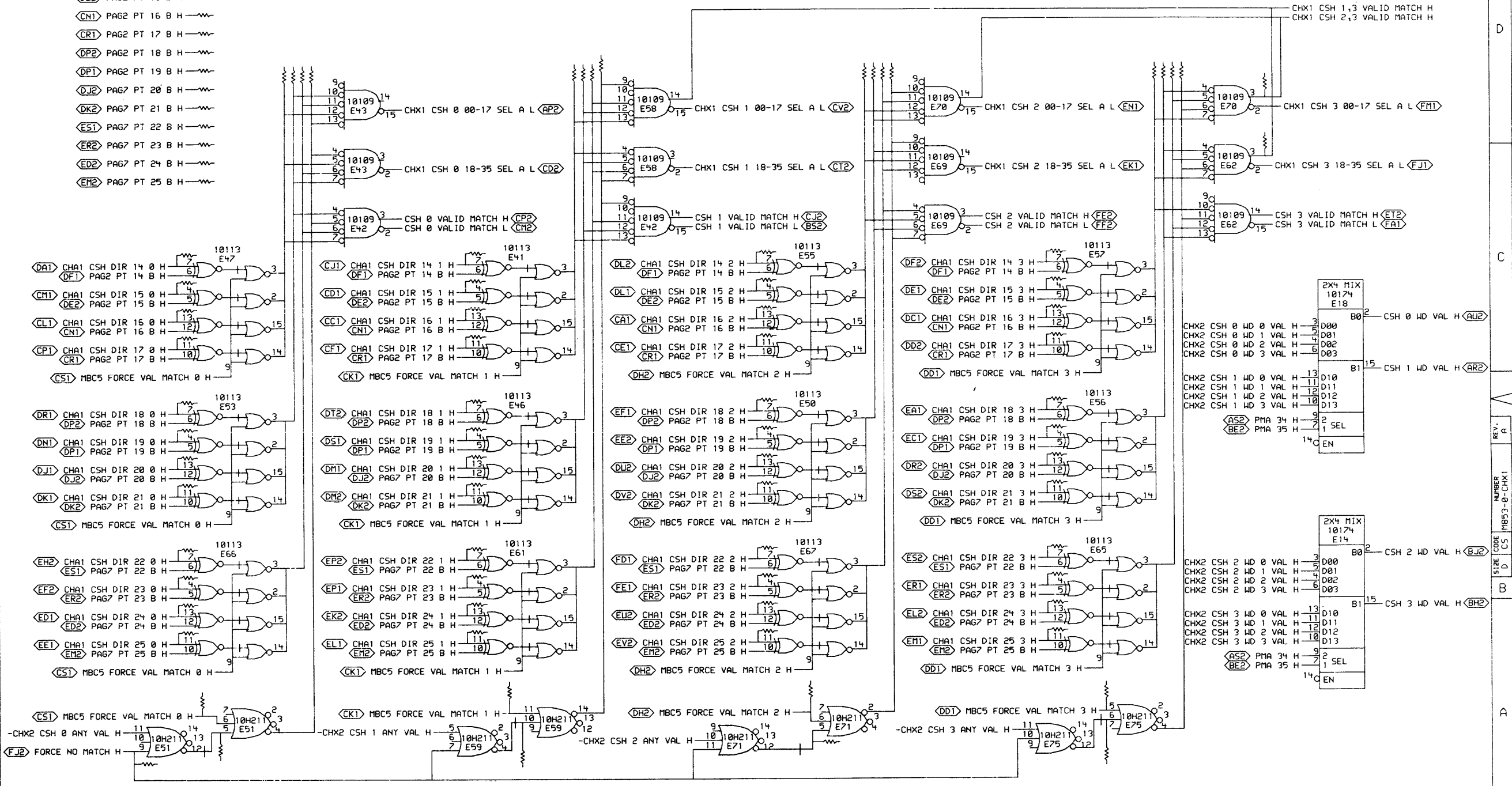
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- CN1 PAG2 PT 16 B H
- CR1 PAG2 PT 17 B H
- DP2 PAG2 PT 18 B H
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- DJ2 PAG7 PT 20 B H
- DK2 PAG7 PT 21 B H
- ES1 PAG7 PT 22 B H
- ER2 PAG7 PT 23 B H
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- EM2 PAG7 PT 25 B H

D

C

B

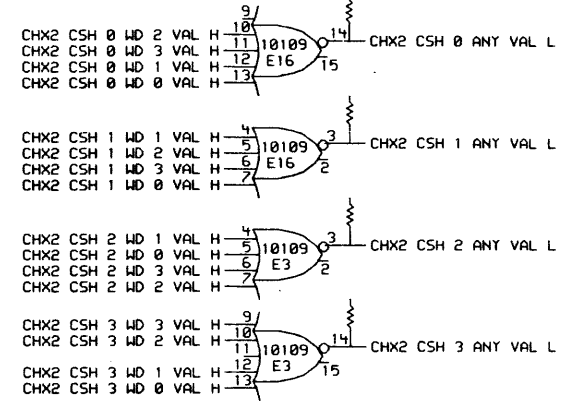
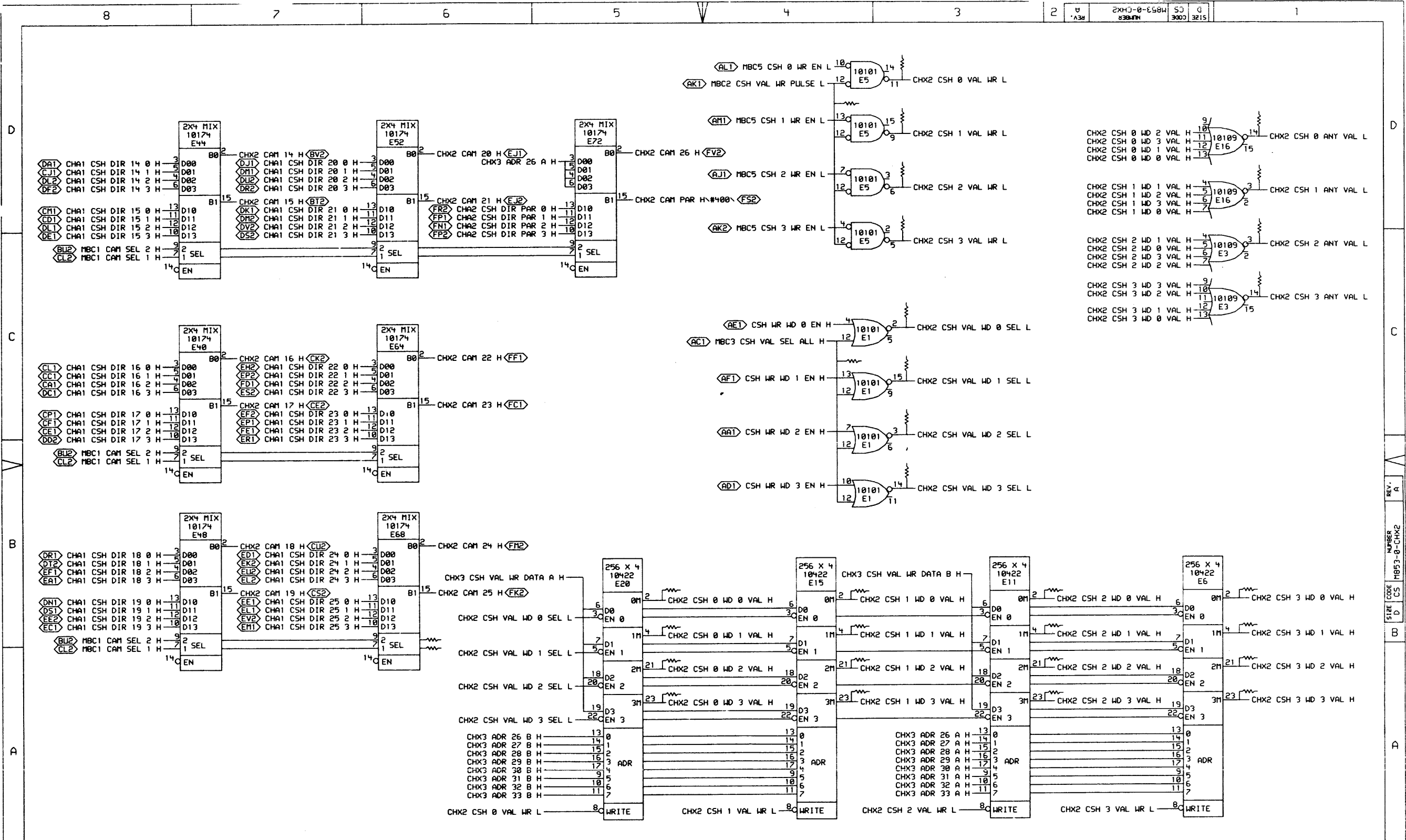
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REVISIONS	
CHK	CHANGE NO. REV

	DATE	ENG.	DATE	TITLE:
	06-AUG-84	C. A. JENS	06-AUG-84	CSH ADR COMPR & VAL BIT MIXER
CHK'D	DATE	BOARD LOCATION:	SHEET	OF
D. DELLORCO	23-JUL-84	4AF28	1	1
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M853-0		SIZE CODE
				NUMBER
				REV.
				A



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REVISIONS		
CHK	CHANGE NO.	REV

digital *DRN. J. Family*

DATE 06-AUG-84 ENG. C. A. JENS DATE 06-AUG-84 TITLE: CSH VALID BITS AND ADR MIXERS

DATE 06-AUG-84 BOARD LOCATION: 4AF28

CHK'D D. DELLORCO 06-AUG-84 SHEET 1 OF 1

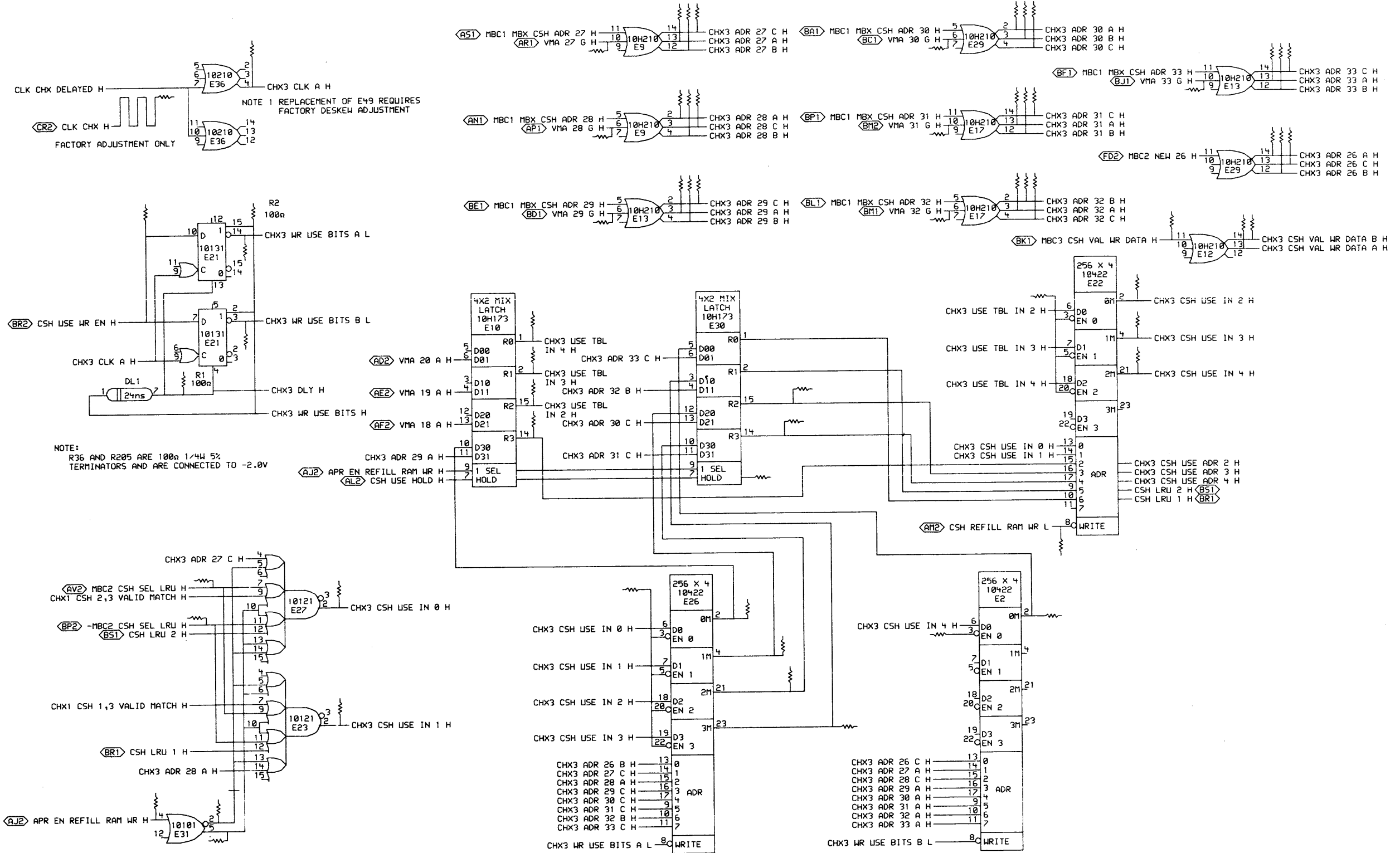
SIZE CODE NUMBER REV. D CS M853-0-CHX2 A

XTRA: MCA25.M85152PCHXB.DRW 123-JUL-84 12:25 NEXT HIGHER ASSEMBLY: D-DD-M853-0

FIRST USED ON OPTION MODEL: MCA25

D
C
B
A

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C
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A



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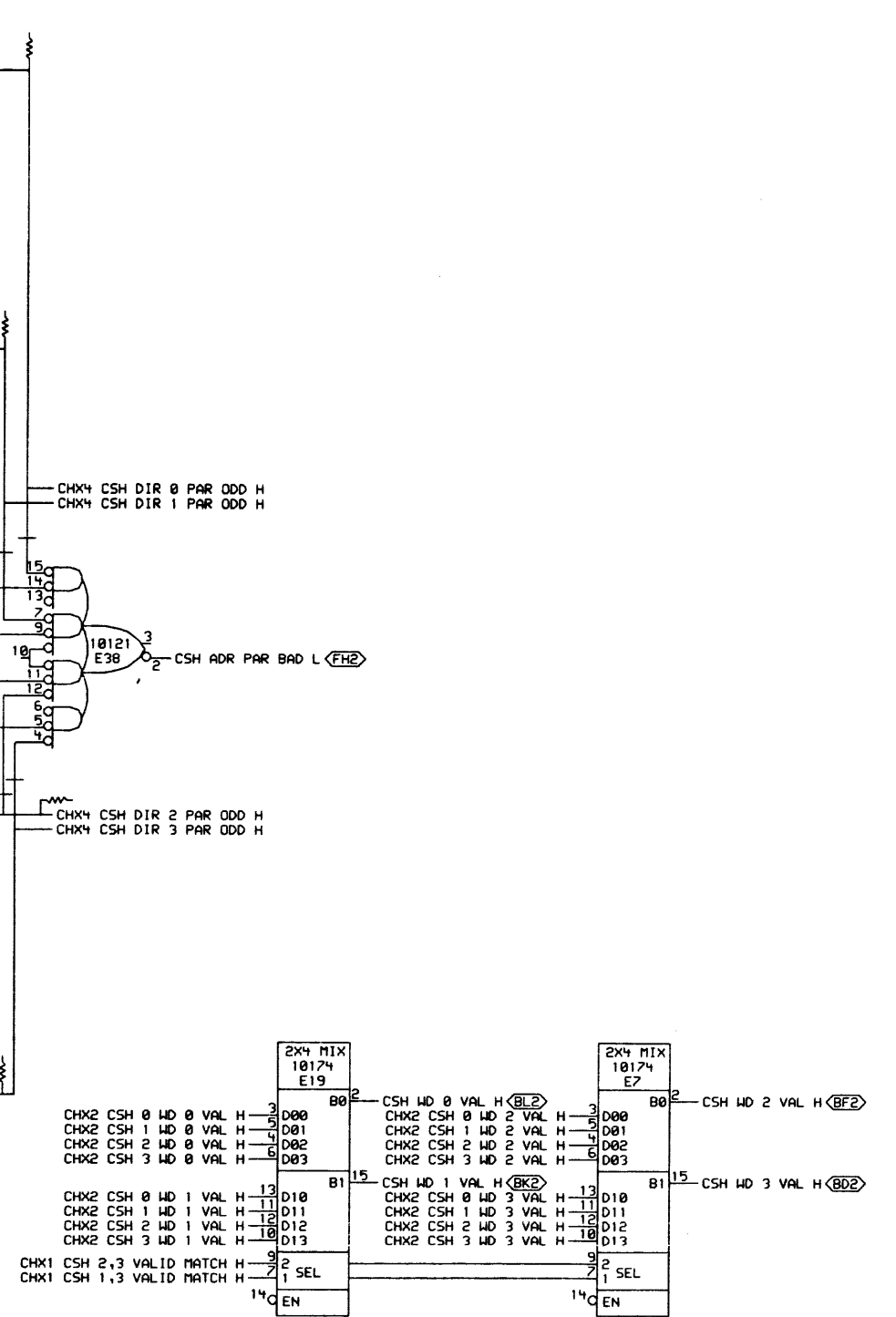
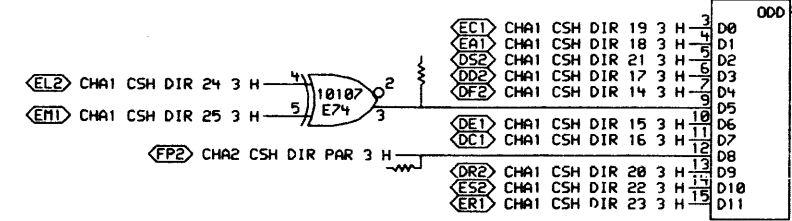
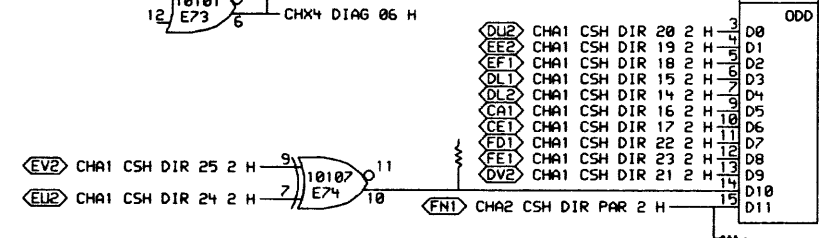
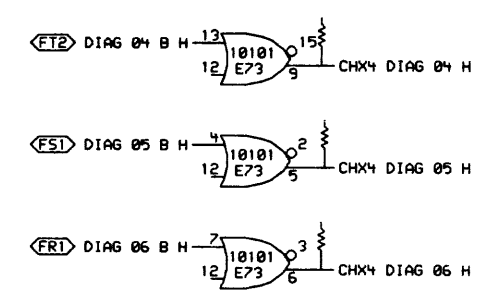
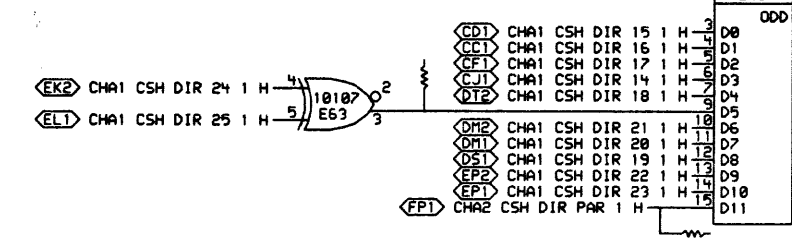
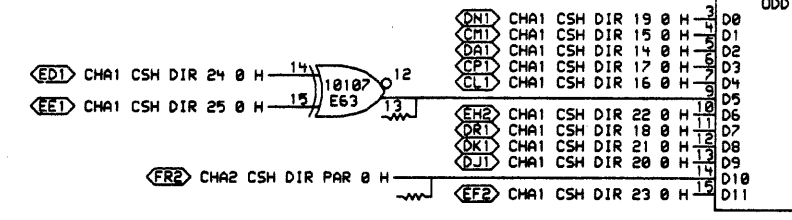
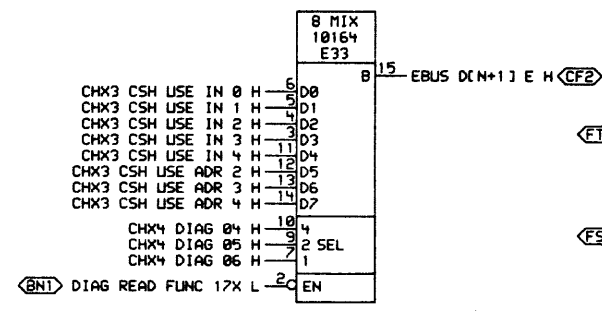
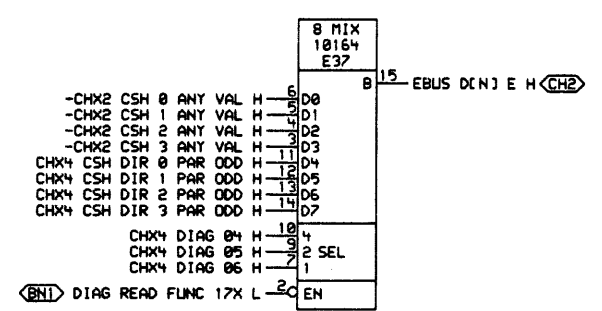
REVISIONS	CHK	CHANGE NO.	REV

digital	DATE	ENG.	DATE	TITLE:
	06-AUG-84	C. A. JENS	06-AUG-84	CACHE USE BITS
CHK'D	DATE	BOARD LOCATION:	SHEET	OF
D. DELLORCO	23-JUL-84	4AF28	1	1
XTRA: MCA25.M8515.PCHX3.DRW		NEXT HIGHER ASSEMBLY:		SIZE CODE
FIRST USED ON OPTION/MODEL: MCA25		D-DD-M853-0		D CS

NUMBER	REV.
M853-0-CHX3	A

D
C
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A

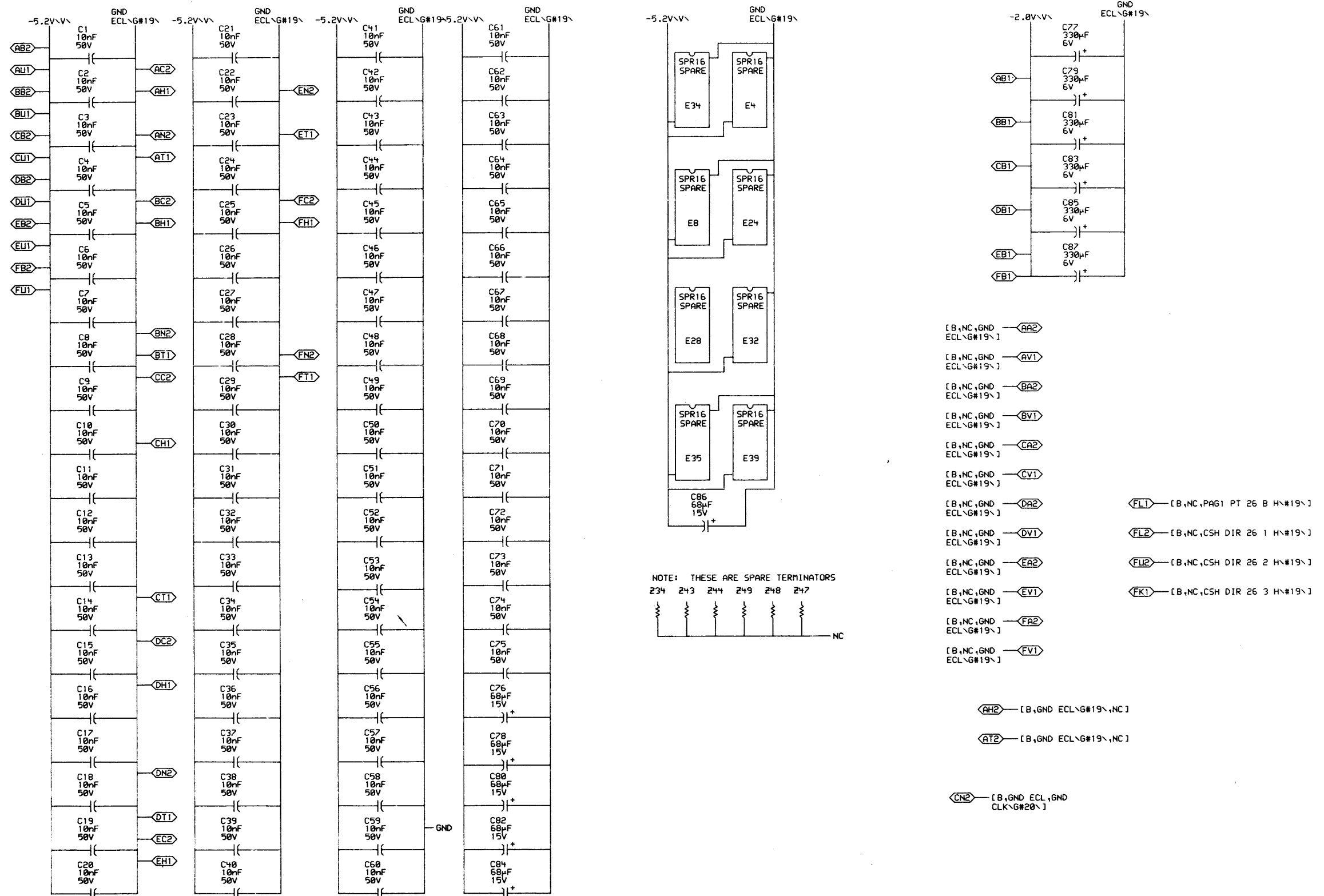
D
C
B
A



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REVISIONS		
CHK	CHANGE NO.	REV

digital DRW. J. Family
 DATE 06-AUG-84 ENG. C. A. JENS
 DATE 06-AUG-84 BOARD LOCATION: 4AF28
 D. DELLORCO DATE 06-AUG-84 SHEET 1 OF 1
 TITLE: CSH DIR PAR NET AND DIAG MIXERS
 XTRA: MCA25.M8515)PCXD.BRM 123-JUL-84 12:26 NEXT HIGHER ASSEMBLY:
 FIRST USED ON OPTION/MODEL: MCA25 D-DD-M853-0
 SIZE CODE NUMBER REV.
 D CS M853-0-CHX4 A
 MRO 1



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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE 06-AUG-84	ENG. C. A. JENS	DATE 06-AUG-84	TITLE: CHX
	CHK'D D. DELLORCO	DATE 06-AUG-84	BOARD LOCATION: 4AF28	POWER, GND, CAP
XTRA:\MCA25.M8515\PCHE.DWG 123-JUL-84 12:27		NEXT HIGHER ASSEMBLY: D-DD-M853-0		SIZE CODE D CS
FIRST USED ON OPTION/MODEL: MCA25		NUMBER M853-0-CHX5		REV. A

RESISTOR LOC(PIN)	SHOWN ON DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	ON REF	VALUE	TERMINATES SIGNAL
220(8)	CHX3	B3	68n	%E2(2)	29(1)	CHX1	C6	68n	CHA1 CSH DIR 15 1 H	254(5)	CHX1	A6	68n	CHA1 CSH DIR 25 1 H	216(1)	CHX3	D5	68n	CHX3 ADR 27 A H
215(5)	CHX3	B3	68n	%E2(3)	252(10)	CHX1	C4	68n	CHA1 CSH DIR 15 2 H	257(1)	CHX1	A4	68n	CHA1 CSH DIR 25 2 H	245(10)	CHX3	D4	68n	CHX3 ADR 27 B H
219(3)	CHX3	C3	68n	%E22(3)	225(10)	CHX1	C3	68n	CHA1 CSH DIR 15 3 H	228(10)	CHX1	A3	68n	CHA1 CSH DIR 25 3 H	256(3)	CHX3	D4	68n	CHX3 ADR 27 C H
23(6)	CHX3	B4	68n	%E26(2)	251(1)	CHX1	C7	68n	CHA1 CSH DIR 16 0 H	224(1)	CHX4	D5	68n	CHA2 CSH DIR PAR 0 H	233(5)	CHX3	D5	68n	CHX3 ADR 28 A H
26(6)	CHX3	A4	68n	%E26(21)	29(6)	CHX1	C6	68n	CHA1 CSH DIR 16 1 H	223(3)	CHX4	C4	68n	CHA2 CSH DIR PAR 1 H	245(6)	CHX3	D4	68n	CHX3 ADR 28 B H
220(10)	CHX3	A4	68n	%E26(23)	252(5)	CHX1	C4	68n	CHA1 CSH DIR 16 2 H	224(10)	CHX4	B4	68n	CHA2 CSH DIR PAR 2 H	22(1)	CHX3	D4	68n	CHX3 ADR 28 C H
220(1)	CHX3	B5	68n	%E26(3)	225(6)	CHX1	C3	68n	CHA1 CSH DIR 16 3 H	212(5)	CHX4	A5	68n	CHA2 CSH DIR PAR 3 H	230(5)	CHX3	D5	68n	CHX3 ADR 29 A H
220(5)	CHX3	A4	68n	%E26(4)	250(10)	CHX1	C7	68n	CHA1 CSH DIR 17 0 H	230(3)	CHX1	C2	68n	CHX1 CSH 1,3 VALID MATCH H	246(5)	CHX3	D4	68n	CHX3 ADR 29 B H
233(6)	CHX3	A7	68n	%E31(2)	29(8)	CHX1	C6	68n	CHA1 CSH DIR 17 1 H	217(5)	CHX1	D2	68n	CHX1 CSH 2,3 VALID MATCH H	219(10)	CHX3	D4	68n	CHX3 ADR 29 C H
232(3)	CHX3	A7	68n	%E31(5)	252(6)	CHX1	C4	68n	CHA1 CSH DIR 17 2 H	235(10)	CHX2	D1	68n	-CHX2 CSH 0 ANY VAL H	215(1)	CHX3	D3	68n	CHX3 ADR 30 A H
239(10)	CHX1	D5	68n	%E41(2)	212(10)	CHX1	C3	68n	CHA1 CSH DIR 17 3 H	246(10)	CHX2	D3	68n	-CHX2 CSH 0 VAL WR H	246(3)	CHX3	D3	68n	CHX3 ADR 30 B H
240(1)	CHX1	D5	68n	%E46(2)	211(3)	CHX1	B7	68n	CHA1 CSH DIR 18 0 H	217(8)	CHX2	B5	68n	CHX2 CSH 0 WD 0 VAL H	256(6)	CHX3	D3	68n	CHX3 ADR 30 C H
222(10)	CHX1	D7	68n	%E47(2)	223(10)	CHX1	B6	68n	CHA1 CSH DIR 18 1 H	218(6)	CHX2	B5	68n	CHX2 CSH 0 WD 1 VAL H	216(5)	CHX3	D3	68n	CHX3 ADR 31 A H
213(8)	CHX1	D4	68n	%E50(2)	239(3)	CHX1	B4	68n	CHA1 CSH DIR 18 2 H	217(6)	CHX2	A5	68n	CHX2 CSH 0 WD 2 VAL H	218(1)	CHX3	D3	68n	CHX3 ADR 31 B H
252(1)	CHX1	A7	68n	%E51(12)	210(3)	CHX1	B3	68n	CHA1 CSH DIR 18 3 H	218(5)	CHX2	A5	68n	CHX2 CSH 0 WD 3 VAL H	256(5)	CHX3	D3	68n	CHX3 ADR 31 C H
237(1)	CHX1	D7	68n	%E51(4)	225(3)	CHX1	B7	68n	CHA1 CSH DIR 19 0 H	235(8)	CHX2	D1	68n	-CHX2 CSH 1 ANY VAL H	216(3)	CHX3	D3	68n	CHX3 ADR 32 A H
250(6)	CHX1	D7	68n	%E53(2)	223(8)	CHX1	B6	68n	CHA1 CSH DIR 19 1 H	218(3)	CHX2	D3	68n	-CHX2 CSH 1 VAL WR H	221(1)	CHX3	D3	68n	CHX3 ADR 32 B H
213(10)	CHX1	D4	68n	%E55(2)	239(1)	CHX1	B4	68n	CHA1 CSH DIR 19 2 H	231(5)	CHX2	B4	68n	CHX2 CSH 1 WD 0 VAL H	24(10)	CHX3	D3	68n	CHX3 ADR 32 C H
24(10)	CHX1	D2	68n	%E56(2)	210(5)	CHX1	B3	68n	CHA1 CSH DIR 19 3 H	245(5)	CHX2	B4	68n	CHX2 CSH 1 WD 1 VAL H	216(8)	CHX3	D1	68n	CHX3 ADR 33 A H
228(3)	CHX1	D2	68n	%E57(2)	211(1)	CHX1	B7	68n	CHA1 CSH DIR 20 0 H	245(3)	CHX2	A4	68n	CHX2 CSH 1 WD 2 VAL H	217(3)	CHX3	D1	68n	CHX3 ADR 33 B H
222(8)	CHX1	D5	68n	%E59(14)	237(5)	CHX1	B6	68n	CHA1 CSH DIR 20 1 H	231(3)	CHX2	A4	68n	CHX2 CSH 1 WD 3 VAL H	256(10)	CHX3	D1	68n	CHX3 ADR 33 C H
268(3)	CHX1	A6	68n	%E59(4)	224(6)	CHX1	B4	68n	CHA1 CSH DIR 20 2 H	222(5)	CHX2	C1	68n	-CHX2 CSH 2 ANY VAL H	25(3)	CHX3	D7	68n	CHX3 CLK A H
240(3)	CHX1	D5	68n	%E61(2)	212(3)	CHX1	B3	68n	CHA1 CSH DIR 20 3 H	216(6)	CHX2	D3	68n	-CHX2 CSH 2 VAL WR H	25(1)	CHX3	B5	68n	CHX3 CSH USE ADR 2 H
210(1)	CHX4	D5	68n	%E63(13)	210(10)	CHX1	B7	68n	CHA1 CSH DIR 21 0 H	233(1)	CHX2	B2	68n	CHX2 CSH 2 WD 0 VAL H	218(8)	CHX3	C4	68n	CHX3 CSH USE ADR 3 H
29(5)	CHX4	C5	68n	%E63(3)	223(5)	CHX1	B6	68n	CHA1 CSH DIR 21 1 H	217(1)	CHX2	B2	68n	CHX2 CSH 2 WD 1 VAL H	217(10)	CHX3	C4	68n	CHX3 CSH USE ADR 4 H
242(3)	CHX1	D2	68n	%E65(2)	224(3)	CHX1	B4	68n	CHA1 CSH DIR 21 2 H	230(1)	CHX2	A2	68n	CHX2 CSH 2 WD 2 VAL H	220(3)	CHX3	B6	68n	CHX3 CSH USE IN 0 H
250(8)	CHX1	D7	68n	%E66(2)	212(8)	CHX1	B3	68n	CHA1 CSH DIR 21 3 H	215(8)	CHX2	A2	68n	CHX2 CSH 2 WD 3 VAL H	26(1)	CHX3	A6	68n	CHX3 CSH USE IN 1 H
228(1)	CHX1	D4	68n	%E67(2)	213(3)	CHX1	B7	68n	CHA1 CSH DIR 22 0 H	222(3)	CHX2	C1	68n	-CHX2 CSH 3 ANY VAL H	221(8)	CHX3	C2	68n	CHX3 CSH USE IN 2 H
255(8)	CHX1	A4	68n	%E71(12)	213(1)	CHX1	B6	68n	CHA1 CSH DIR 22 1 H	23(3)	CHX2	C3	68n	-CHX2 CSH 3 VAL WR H	221(6)	CHX3	C2	68n	CHX3 CSH USE IN 3 H
214(1)	CHX1	D4	68n	%E71(2)	257(5)	CHX1	B4	68n	CHA1 CSH DIR 22 2 H	233(3)	CHX2	B1	68n	CHX2 CSH 3 WD 0 VAL H	215(3)	CHX3	C2	68n	CHX3 CSH USE IN 4 H
238(8)	CHX4	B5	68n	%E74(10)	213(5)	CHX1	B3	68n	CHA1 CSH DIR 22 3 H	231(8)	CHX2	B1	68n	CHX2 CSH 3 WD 1 VAL H	246(8)	CHX3	C1	68n	CHX3 CSH VAL WR DATA A H
212(1)	CHX4	A5	68n	%E74(3)	241(5)	CHX1	B7	68n	CHA1 CSH DIR 23 0 H	229(3)	CHX2	A1	68n	CHX2 CSH 3 WD 2 VAL H	23(1)	CHX3	C1	68n	CHX3 CSH VAL WR DATA B H
242(8)	CHX1	A3	68n	%E75(12)	29(3)	CHX1	B6	68n	CHA1 CSH DIR 23 1 H	215(10)	CHX2	A1	68n	CHX2 CSH 3 WD 3 VAL H	R1(1)	CHX3	C7	100n	CHX3 DLT H
240(5)	CHX1	D2	68n	%E75(4)	255(1)	CHX1	B4	68n	CHA1 CSH DIR 23 2 H	245(1)	CHX2	C3	68n	-CHX2 CSH VAL WD 0 SEL H	219(6)	CHX3	C5	68n	CHX3 USE TBL IN 2 H
26(5)	CHX3	A7	68n	APR EN REFILL RAM WR H	227(5)	CHX1	B3	68n	CHA1 CSH DIR 23 3 H	246(6)	CHX2	C3	68n	-CHX2 CSH VAL WD 1 SEL H	219(5)	CHX3	C5	68n	CHX3 USE TBL IN 3 H
238(1)	CHX1	C7	68n	CHA1 CSH DIR 14 0 H	254(1)	CHX1	A7	68n	CHA1 CSH DIR 24 0 H	245(8)	CHX2	C3	68n	-CHX2 CSH VAL WD 2 SEL H	218(10)	CHX3	C5	68n	CHX3 USE TBL IN 4 H
29(10)	CHX1	C6	68n	CHA1 CSH DIR 14 1 H	254(3)	CHX1	A6	68n	CHA1 CSH DIR 24 1 H	246(1)	CHX2	B3	68n	-CHX2 CSH VAL WD 3 SEL H	R2(1)	CHX3	C7	100n	CHX3 WR USE BITS H
252(8)	CHX1	C4	68n	CHA1 CSH DIR 14 2 H	254(8)	CHX1	A4	68n	CHA1 CSH DIR 24 2 H	22(8)	CHX3	D1	68n	CHX3 ADR 26 A H	25(10)	CHX3	C7	68n	-CHX3 WR USE BITS A H
212(6)	CHX1	C3	68n	CHA1 CSH DIR 14 3 H	228(8)	CHX1	A3	68n	CHA1 CSH DIR 24 3 H	231(10)	CHX3	D1	68n	CHX3 ADR 26 B H	22(5)	CHX3	C7	68n	-CHX3 WR USE BITS B H
251(5)	CHX1	C7	68n	CHA1 CSH DIR 15 0 H	268(10)	CHX1	A7	68n	CHA1 CSH DIR 25 0 H	22(6)	CHX3	D1	68n	CHX3 ADR 26 C H	236(1)	CHX4	D4	68n	CHX4 CSH DIR 0 PAR ODD H

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

digital	DATE	ENG.	DATE	TITLE:
	06-AUG-84	C. A. JENS	06-AUG-84	CACHE EXTENSION TERMINATORS
	CHK'D	DATE	BOARD LOCATION:	
	D. DELLORCO	06-AUG-84	4A2B	
XTRA:\MCA25\M8515\M8531.DRW 24-JUL-84 11:28				NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MCA25				D-DD-M853-0
SIZE	CODE	NUMBER	REV.	
D	CS	M853-0-RES	A	

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
Z36(5)	CHX4	C4	68Ω	CHX4 CSH DIR 1 PAR ODD H	Z3(5)	CHX3	D5	68Ω	VMA 27 G H
Z22(1)	CHX4	B4	68Ω	CHX4 CSH DIR 2 PAR ODD H	Z3(8)	CHX3	D5	68Ω	VMA 28 G H
Z36(3)	CHX4	A4	68Ω	CHX4 CSH DIR 3 PAR ODD H	Z4(6)	CHX3	C5	68Ω	VMA 29 G H
Z21(3)	CHX4	C6	68Ω	CHX4 DIAG 04 H	Z6(8)	CHX3	D3	68Ω	VMA 30 G H
Z21(5)	CHX4	B6	68Ω	CHX4 DIAG 05 H	Z4(8)	CHX3	D3	68Ω	VMA 31 G H
Z21(10)	CHX4	B6	68Ω	CHX4 DIAG 06 H	Z4(5)	CHX3	C3	68Ω	VMA 32 G H
R3(1)	CHX3	D7	68Ω	CLK CHX H	Z4(3)	CHX3	D2	68Ω	VMA 33 G H
Z19(8)	CHX3	B2	68Ω	-CSH REFILL RAM WR H					
Z6(10)	CHX3	B4	68Ω	CSH USE HOLD H					
Z5(5)	CHX3	C7	68Ω	CSH USE WR EN H					
Z42(6)	CHX1	A8	68Ω	FORCE NO MATCH H					
Z14(5)	CHX2	A6	68Ω	MBC1 CAM SEL 1 H					
Z14(3)	CHX2	B6	68Ω	MBC1 CAM SEL 2 H					
Z56(1)	CHX3	B7	68Ω	MBC2 CSH SEL LRU H					
Z32(1)	CHX3	B7	68Ω	-MBC2 CSH SEL LRU H					
Z2(10)	CHX2	D4	68Ω	-MBC2 CSH VAL WR PULSE H					
Z2(3)	CHX2	C4	68Ω	MBC3 CSH VAL SEL ALL H					
Z30(6)	CHX3	C2	68Ω	MBC3 CSH VAL WR DATA H					
Z37(3)	CHX1	A7	68Ω	MBC5 FORCE VAL MATCH 0 H					
Z26(3)	CHX1	A6	68Ω	MBC5 FORCE VAL MATCH 1 H					
Z42(1)	CHX1	A4	68Ω	MBC5 FORCE VAL MATCH 2 H					
Z42(10)	CHX1	A3	68Ω	MBC5 FORCE VAL MATCH 3 H					
Z34(1)	CHX5	B4	68Ω	NC					
Z43(1)	CHX5	B4	68Ω	NC					
Z44(1)	CHX5	B4	68Ω	NC					
Z47(1)	CHX5	B4	68Ω	NC					
Z48(1)	CHX5	B4	68Ω	NC					
Z49(1)	CHX5	B4	68Ω	NC					
Z51(8)	CHX1	D7	68Ω	PAG2 PT 14 B H					
Z51(6)	CHX1	D7	68Ω	PAG2 PT 15 B H					
Z51(3)	CHX1	D7	68Ω	PAG2 PT 16 B H					
Z37(6)	CHX1	D7	68Ω	PAG2 PT 17 B H					
Z37(8)	CHX1	D7	68Ω	PAG2 PT 18 B H					
Z37(10)	CHX1	D7	68Ω	PAG2 PT 19 B H					
Z23(1)	CHX1	D7	68Ω	PAG7 PT 20 B H					
Z23(6)	CHX1	D7	68Ω	PAG7 PT 21 B H					
Z57(6)	CHX1	D7	68Ω	PAG7 PT 22 B H					
Z55(3)	CHX1	D7	68Ω	PAG7 PT 23 B H					
Z54(10)	CHX1	C7	68Ω	PAG7 PT 24 B H					
Z57(3)	CHX1	C7	68Ω	PAG7 PT 25 B H					

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

digital	DRW: J. Jansky	DATE: 06-AUG-84	ENG: C. A. JENS	DATE: 06-AUG-84	TITLE: CACHE EXTENSION TERMINATORS
	CHK'D: D. DELLORCO	DATE: 06-AUG-84	BOARD LOCATION: 4AF28	SHEET: 2 OF 2	
XTRA: MCA25.M853-0-RES.DRW 124-JUL-84 11:32			NEXT HIGHER ASSEMBLY: D-DD-M853-0	SIZE CODE: D CS	NUMBER: M853-0-RES
FIRST USED ON OPTION MODEL: MCA25				REV. A	

DRAWING NUMBER	NO. OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M854-00	MODULE REVISION	A1
D-LIA-M854-0-0	1		PHYSICAL MEMORY ADDRESS	A
K-PL-M854-0-DBP	2		PART LIST, M854	A
D-CS-M854-0-PMA1	1		EBR & UBR REG UEBR MIX & VA BUF	A
D-CS-M854-0-PMA2	1		CACHE CLEARER ADR CTR	A
D-CS-M854-0-PMA3	1		PHY ADR MIX PA 14-31	A
D-CS-M854-0-PMA4	1		ERA REG, ADR PAR, PA 32-35 MIX	A
D-CS-M854-0-PMA5	1		PHY MEM ADR CONTROL LOGIC	A
D-CS-M854-0-PMA6	1		PHYSICAL MEM ADR PWR, GND, CAP	A
D-CS-M854-0-RES	2		PHYSICAL MEMORY ADDRESS TERMINATORS	A
K-PC-M854-0-DBI	-		P.C. DESIGN DATA BASE TAPE	A
D-DD-5017660-0	1		DRAWING DIRECTORY, 5017660	REF

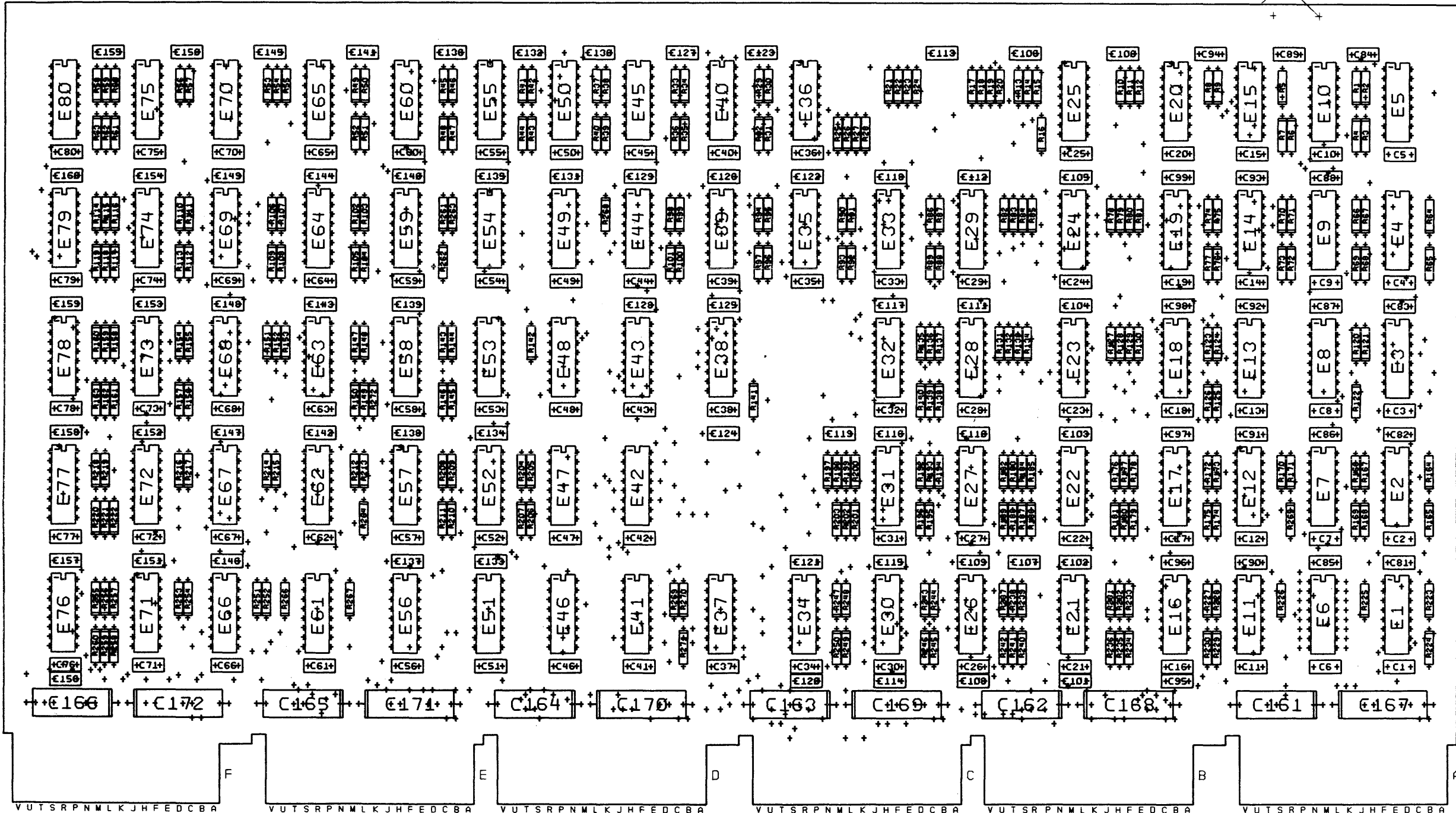
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 09-JUL-84	ENG. C. KACZOR	DATE 09-JUL-84	TITLE: M854
	CHK'D. D. DELLORCO	DATE 09-JUL-84	BOARD LOCATION: N/A	SHEET 1 OF 1	DRAWING DIRECTORY
DSK:M854A.T2P(4,21)			09-JUL-84 16:40	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER REV.
FIRST USED ON OPTION/MODEL: KL10-PW			MCA25	D DD M854-0	A

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COMPONENT SIDE VIEW
20 (QTY 12)



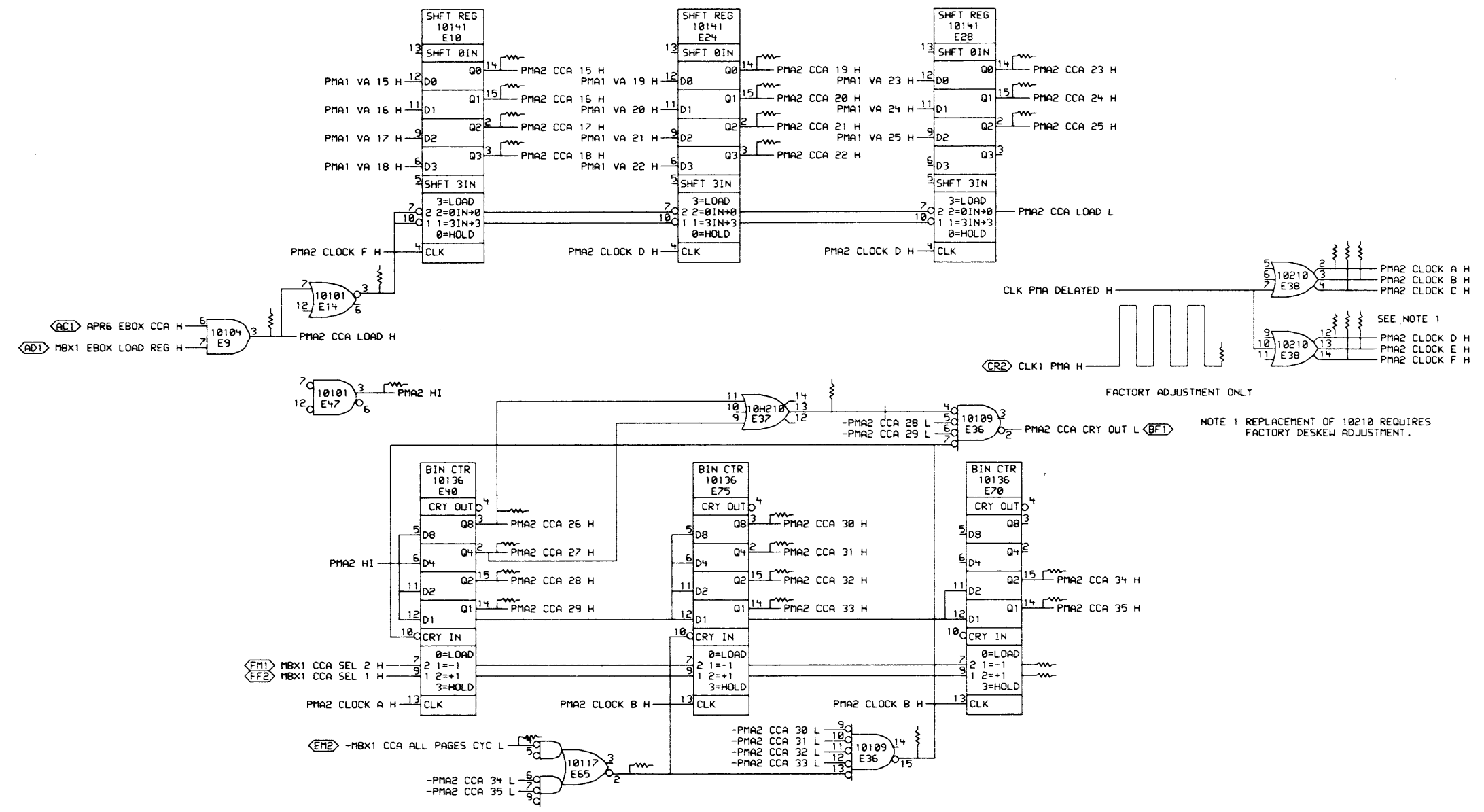
NOTES: SPACE COMPONENT LOCATIONS ARE: E6, R49, R72, R88, R101, R154, R195, R203, R217, R254, R197

STEP E → Y AXIS 0 STEP 0 TIMES
REPEAT → X AXIS 0 STEP 0 TIMES

CHK	CHANGE NO	REV

ETCH REV. A1

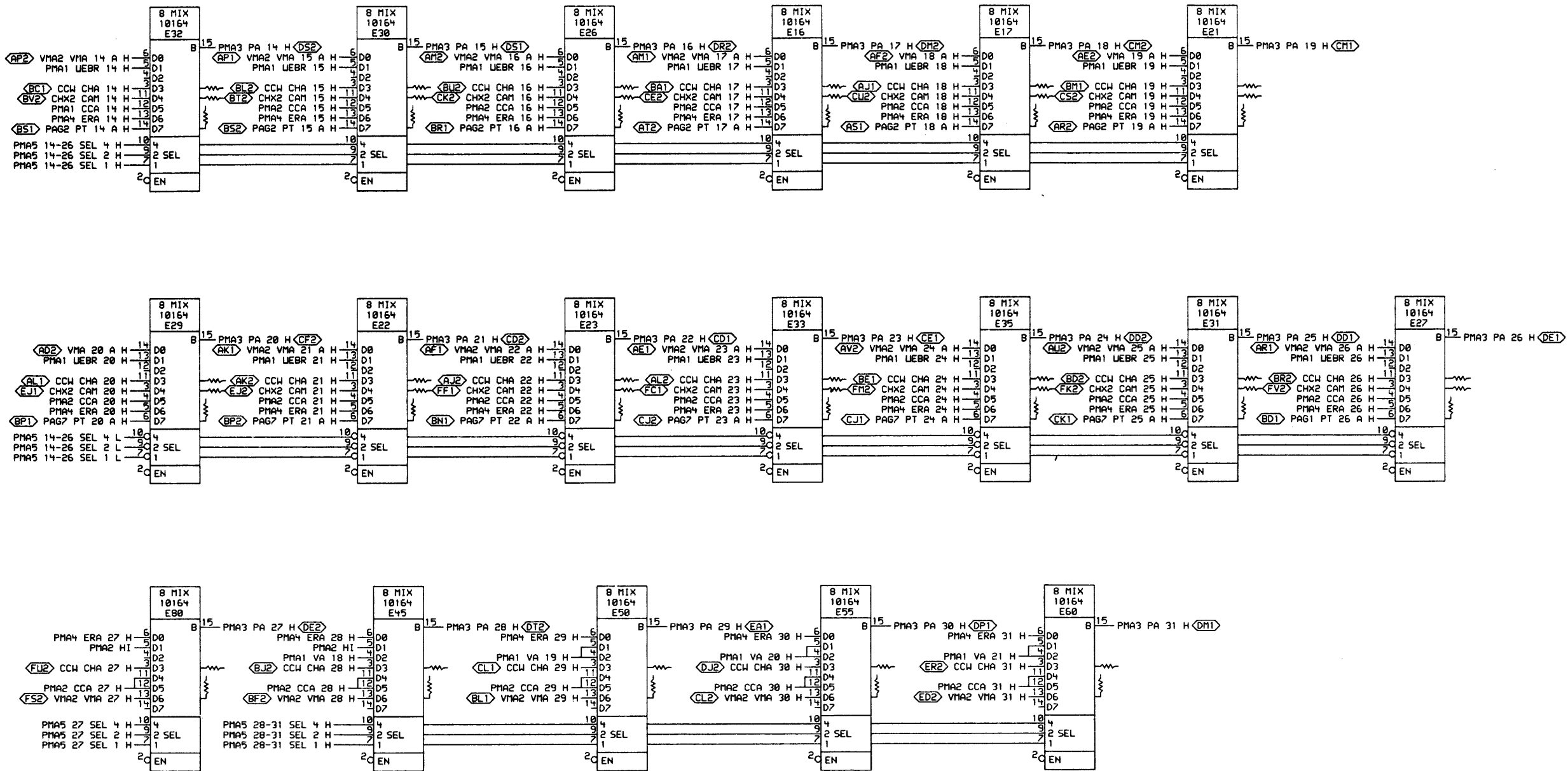
SIGNATURES	DATE	digital
DRN. <i>J. D. ...</i>	4/13/64	
CHK'D. <i>D. ...</i>	5/2/64	TITLE PHYSICAL
MECH. ENG. <i>C. ...</i>	5/6/64	
PROJ. ENG. <i>C. ...</i>	5/16/64	MEMORY ADDRESS
PROD. <i>...</i>	5/16/64	
SCALE 2/1	SIZE CODE	NUMFR
SHT. 1 OF 1	D UA M854-0-0	
TOP DOC. NO: D-DD-M854-0		



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REVISIONS	
CHK	CHANGE NO. REV

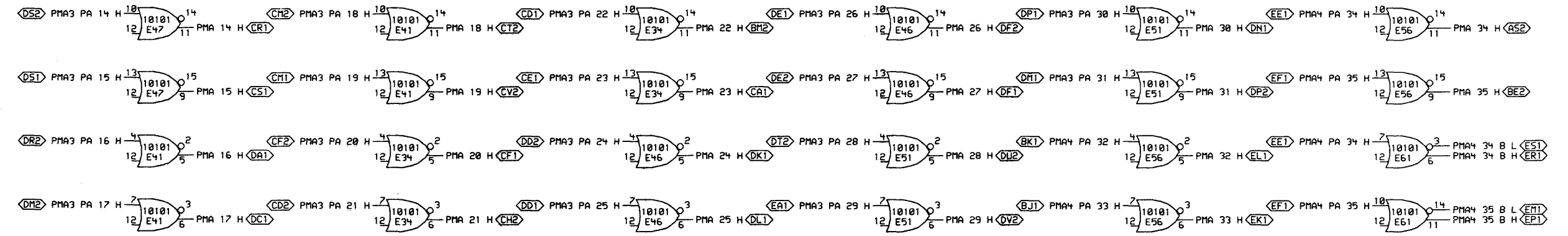
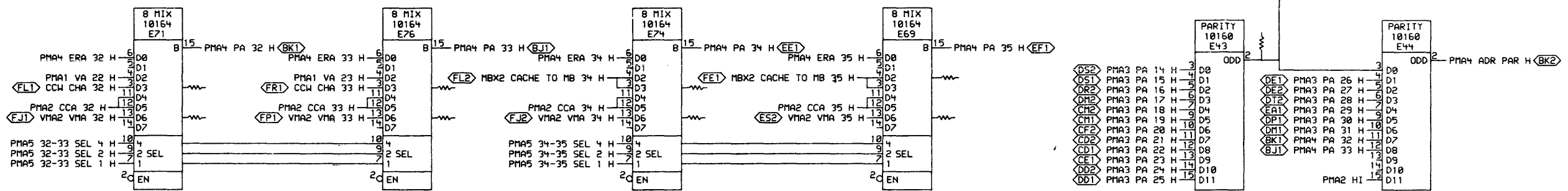
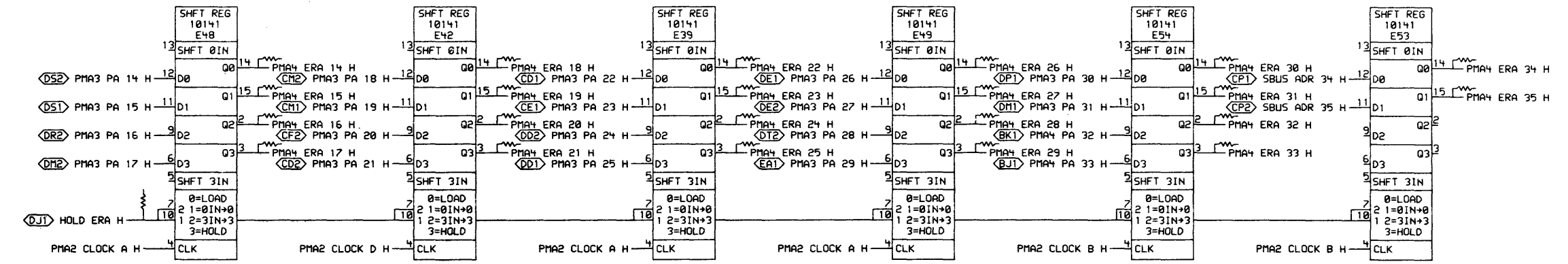
	DATE: 05-JUL-84	ENG: C. KACZOR	DATE: 05-JUL-84	TITLE: CACHE CLEARER
	CHK'D: D. DELLORCO	DATE: 05-JUL-84	BOARD LOCATION: 48F29	ADR CTR
XTRAI<MCA25.M8518>PPMA2.DRW		05-JUL-84 12:26	NEXT HIGHER ASSEMBLY: D-DD-M854-0	SIZE CODE: D CS
FIRST USED ON OPTION/MODEL: MCA25		NUMBER: M854-0-PMA2		REV: A



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REVISIONS	
CHK	CHANGE NO. REV

	DRAWN BY: <i>D. Dellorco</i> CHECKED BY: <i>D. Dellorco</i>	DATE: 05-JUL-84 DATE: 05-JUL-84	ENG. C. KACZOR BOARD LOCATION: 4AF29	DATE: 05-JUL-84 SHEET: 1 OF 1	TITLE: PHY ADR MIX PA 14-31
	XTRA: MCA25 MB518 PMA3.DRW 105-JUL-84 12:26 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION MODEL: MCA25	D-DD-M854-0	SIZE CODE: D CS	NUMBER: M854-0-PMA3	REV. A



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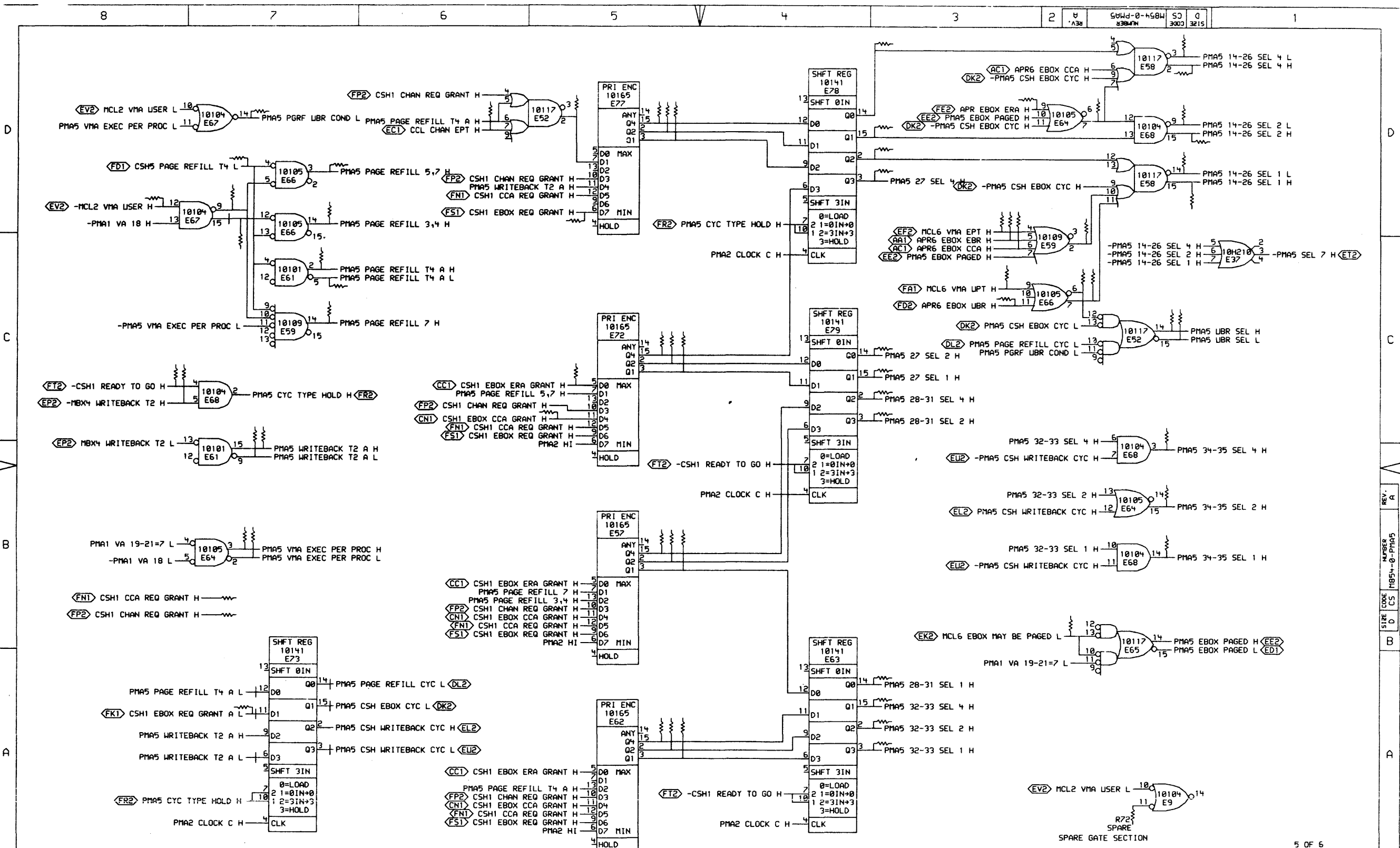
REVISIONS		
CHK	CHANGE NO.	REV

digital *D. Dellorcc*

DATE: 05-JUL-84	ENG: C. KACZOR	DATE: 05-JUL-84
CHK'D: D. DELLORCC	DATE: 05-JUL-84	BOARD LOCATION: 4AF29
SHEET 1 OF 1		

XTRAI: MCA25.M8518>PPMAY.DRW 05-JUL-84 12:27 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION/MODEL: MCA25 D-DD-M854-0

TITLE: ERA REG, ADR PAR, PA 32-35 MIX		SIZE: D	CODE: CS	NUMBER: M854-0-PMAY	REV: A
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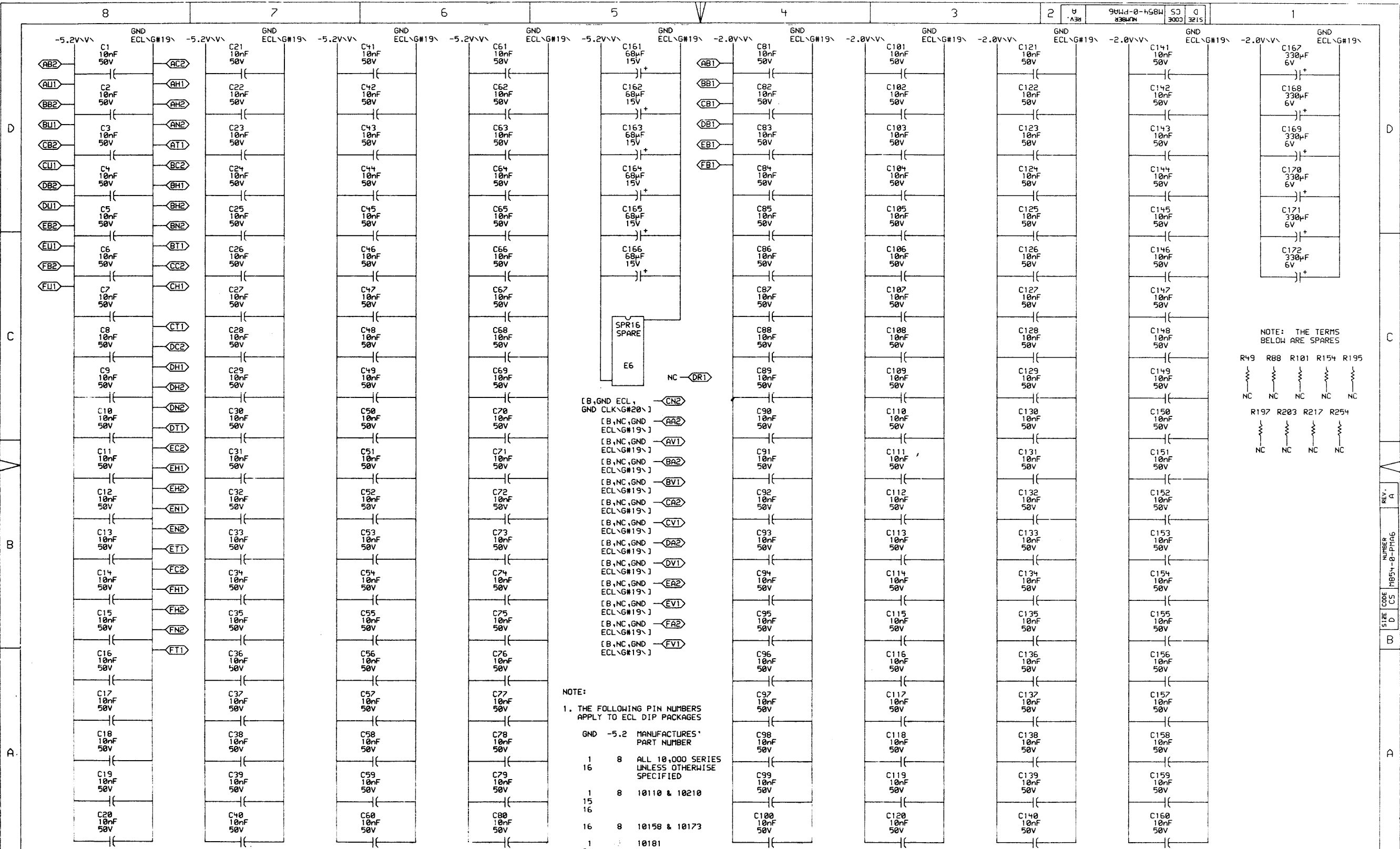
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REVISIONS	CHK	CHANGE NO.	REV

DATE	ENG.	DATE	TITLE:
05-JUL-84	C. KACZOR	05-JUL-84	PHY MEM ADR CONTROL LOGIC
05-JUL-84	D. DELLORCO	05-JUL-84	44F29

digital	DATE	ENG.	DATE	TITLE:
	05-JUL-84	C. KACZOR	05-JUL-84	PHY MEM ADR CONTROL LOGIC
	05-JUL-84	D. DELLORCO	05-JUL-84	44F29
XTRAI (MCA25.M8518) PMA5.DRW 05-JUL-84 12127		NEXT HIGHER ASSEMBLY:		SIZE
FIRST USED ON OPTION/MODEL: MCA25		D-DD-M854-0		D CS
				NUMBER
				M854-0-PMA5
				REV.
				A

SPARE GATE SECTION



NOTE: THE TERMS
BELOW ARE SPARES

R49 R88 R101 R154 R195
 NC NC NC NC NC
 R197 R203 R217 R254
 NC NC NC NC

- [B,GND ECL, GND CLK\G#20] - CN2
- [B,NC,GND ECL\G#19] - AA2
- [B,NC,GND ECL\G#19] - AV1
- [B,NC,GND ECL\G#19] - BA2
- [B,NC,GND ECL\G#19] - BV1
- [B,NC,GND ECL\G#19] - CA2
- [B,NC,GND ECL\G#19] - CV1
- [B,NC,GND ECL\G#19] - DA2
- [B,NC,GND ECL\G#19] - DV1
- [B,NC,GND ECL\G#19] - EA2
- [B,NC,GND ECL\G#19] - EV1
- [B,NC,GND ECL\G#19] - FA2
- [B,NC,GND ECL\G#19] - FV1

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

GND	-5.2	MANUFACTURER'S PART NUMBER
1	8	ALL 10,000 SERIES UNLESS OTHERWISE SPECIFIED
16	8	10110 & 10210
15	8	10158 & 10173
16	8	10181

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REVISIONS	
CHK	CHANGE NO. REV

	DATE: 05-JUL-84	ENG: C. KACZOR	DATE: 05-JUL-84	TITLE: PHYSICAL MEM ADR PWR, GND, CAP
	CHK'D: D. DELLORCO	DATE: 05-JUL-84	BOARD LOCATION: 7AF29	
XTRA: (MCA25.M8518)PPMAG.DRW 05-JUL-84 12:27		NEXT HIGHER ASSEMBLY: D-DD-M854-0		
FIRST USED ON OPTION/MODEL: MCA25	SIZE: D	CODE: CS	NUMBER: M854-0-PMA6	REV: A

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R171(1)	PMA1	B6	68n	%E14(14)	R247(1)	PMA3	D6	68n	CCW CHA 15 H	R263(1)	PMA5	D7	68n	-CSH5 PAGE REFILL T4 H	R120(1)	PMA1	C6	68n	PMA1 EBR 18 H
R11(1)	PMA1	C2	68n	%E15(15)	R243(1)	PMA3	D5	68n	CCW CHA 16 H	R100(1)	PMA4	C7	68n	HOLD ERA H	R130(1)	PMA1	C5	68n	PMA1 EBR 19 H
R12(1)	PMA1	D2	68n	%E15(2)	R232(1)	PMA3	D4	68n	CCW CHA 17 H	R54(1)	PMA2	A6	68n	MBX1 CCA ALL PAGES CYC H	R127(1)	PMA1	C5	68n	PMA1 EBR 20 H
R8(1)	PMA1	C2	68n	%E19(2)	R177(1)	PMA3	D3	68n	CCW CHA 18 H	R32(1)	PMA2	B3	68n	MBX1 CCA SEL 1 H	R123(1)	PMA1	C5	68n	PMA1 EBR 21 H
R30(1)	PMA2	A4	68n	%E36(15)	R238(1)	PMA3	D2	68n	CCW CHA 19 H	R99(1)	PMA2	B3	68n	MBX1 CCA SEL 2 H	R125(1)	PMA1	C5	68n	PMA1 EBR 22 H
R29(1)	PMA2	C4	68n	%E37(13)	R84(1)	PMA3	C7	68n	CCW CHA 20 H	R70(1)	PMA1	C7	68n	MBX1 EBOX LOAD REG H	R169(1)	PMA1	C4	68n	PMA1 EBR 23 H
R226(1)	PMA4	C2	68n	%E43(2)	R187(1)	PMA3	C6	68n	CCW CHA 21 H	R115(1)	PMA4	C5	68n	MBX2 CACHE TO MB 34 H	R166(1)	PMA1	C4	68n	PMA1 EBR 24 H
R219(1)	PMA5	D5	68n	%E52(2)	R80(1)	PMA3	C5	68n	CCW CHA 22 H	R111(1)	PMA4	C4	68n	MBX2 CACHE TO MB 35 H	R165(1)	PMA1	C4	68n	PMA1 EBR 25 H
R163(1)	PMA5	B5	68n	%E57(15)	R202(1)	PMA3	C4	68n	CCW CHA 23 H	R155(1)	PMA5	C7	68n	-MBX4 WRITEBACK T2 H	R225(1)	PMA1	C4	68n	PMA1 EBR 26 H
R160(1)	PMA5	B5	68n	%E57(2)	R93(1)	PMA3	C3	68n	CCW CHA 24 H	R73(1)	PMA5	D8	68n	-MCL2 VMA USER H	R76(1)	PMA1	D2	68n	PMA1 UBR 14 H
R147(1)	PMA5	B5	68n	%E57(3)	R196(1)	PMA3	C2	68n	CCW CHA 25 H	R55(1)	PMA5	B2	68n	-MCL6 EBOX MAY BE PAGED H	R68(1)	PMA1	D6	68n	PMA1 UBR 15 H
R144(1)	PMA5	C2	68n	%E59(2)	R189(1)	PMA3	C1	68n	CCW CHA 26 H	R102(1)	PMA5	D3	68n	MCL6 VMA EPT H	R67(1)	PMA1	D6	68n	PMA1 UBR 16 H
R150(1)	PMA5	A5	68n	%E62(15)	R60(1)	PMA3	B7	68n	CCW CHA 27 H	R252(1)	PMA5	C3	68n	MCL6 VMA UPT H	R64(1)	PMA1	D6	68n	PMA1 UBR 17 H
R153(1)	PMA5	A5	68n	%E62(2)	R34(1)	PMA3	B6	68n	CCW CHA 28 H	R49(1)	PMA6	C1	68n	NC	R122(1)	PMA1	D6	68n	PMA1 UBR 18 H
R152(1)	PMA5	A5	68n	%E62(3)	R44(1)	PMA3	B5	68n	CCW CHA 29 H	R88(1)	PMA6	C1	68n	NC	R129(1)	PMA1	D5	68n	PMA1 UBR 19 H
R145(1)	PMA5	D2	68n	%E64(7)	R48(1)	PMA3	B4	68n	CCW CHA 30 H	R101(1)	PMA6	C1	68n	NC	R128(1)	PMA1	D5	68n	PMA1 UBR 20 H
R28(1)	PMA2	A5	68n	%E65(2)	R52(1)	PMA3	B3	68n	CCW CHA 31 H	R154(1)	PMA6	C1	68n	NC	R124(1)	PMA1	D5	68n	PMA1 UBR 21 H
R204(1)	PMA5	C2	68n	%E66(6)	R255(1)	PMA4	C7	68n	CCW CHA 32 H	R195(1)	PMA6	C1	68n	NC	R126(1)	PMA1	D5	68n	PMA1 UBR 22 H
R146(1)	PMA5	C2	68n	%E66(7)	R218(1)	PMA4	C6	68n	CCW CHA 33 H	R197(1)	PMA6	C1	68n	NC	R168(1)	PMA1	D4	68n	PMA1 UBR 23 H
R251(1)	PMA5	D7	68n	%E67(15)	R89(1)	PMA3	D7	68n	CHX2 CAM 14 H	R203(1)	PMA6	C1	68n	NC	R167(1)	PMA1	D4	68n	PMA1 UBR 24 H
R262(1)	PMA5	D7	68n	%E67(9)	R245(1)	PMA3	D6	68n	CHX2 CAM 15 H	R217(1)	PMA6	C1	68n	NC	R164(1)	PMA1	D4	68n	PMA1 UBR 25 H
R159(1)	PMA5	C5	68n	%E72(15)	R241(1)	PMA3	D5	68n	CHX2 CAM 16 H	R254(1)	PMA6	C1	68n	NC	R224(1)	PMA1	D4	68n	PMA1 UBR 26 H
R114(1)	PMA5	C5	68n	%E72(2)	R230(1)	PMA3	D4	68n	CHX2 CAM 17 H	R140(1)	PMA3	C1	68n	PAG1 PT 26 A H	R138(1)	PMA1	B2	68n	PMA1 UEBR 14 H
R119(1)	PMA5	C5	68n	%E72(3)	R175(1)	PMA3	D3	68n	CHX2 CAM 18 H	R137(1)	PMA3	D7	68n	PAG2 PT 14 A H	R248(1)	PMA1	B3	68n	PMA1 UEBR 15 H
R158(1)	PMA5	D5	68n	%E77(15)	R234(1)	PMA3	D2	68n	CHX2 CAM 19 H	R249(1)	PMA3	D6	68n	PAG2 PT 15 A H	R244(1)	PMA1	A3	68n	PMA1 UEBR 16 H
R162(1)	PMA5	D5	68n	%E77(2)	R19(1)	PMA3	C7	68n	CHX2 CAM 20 H	R237(1)	PMA3	D5	68n	PAG2 PT 16 A H	R233(1)	PMA1	A3	68n	PMA1 UEBR 17 H
R161(1)	PMA5	D5	68n	%E77(3)	R183(1)	PMA3	C6	68n	CHX2 CAM 21 H	R228(1)	PMA3	D4	68n	PAG2 PT 17 A H	R178(1)	PMA1	A3	68n	PMA1 UEBR 18 H
R140(1)	PMA5	D3	68n	%E78(14)	R81(1)	PMA3	C5	68n	CHX2 CAM 22 H	R173(1)	PMA3	D3	68n	PAG2 PT 18 A H	R239(1)	PMA1	B2	68n	PMA1 UEBR 19 H
R151(1)	PMA5	D3	68n	%E78(15)	R23(1)	PMA3	C4	68n	CHX2 CAM 23 H	R231(1)	PMA3	D2	68n	PAG2 PT 19 A H	R85(1)	PMA1	A2	68n	PMA1 UEBR 20 H
R143(1)	PMA5	D3	68n	%E78(2)	R97(1)	PMA3	C3	68n	CHX2 CAM 24 H	R83(1)	PMA3	C7	68n	PAG7 PT 20 A H	R176(1)	PMA1	A2	68n	PMA1 UEBR 21 H
R72(1)	PMA5	A2	68n	%E9(11)	R92(1)	PMA3	C2	68n	CHX2 CAM 25 H	R186(1)	PMA3	C6	68n	PAG7 PT 21 A H	R79(1)	PMA1	A2	68n	PMA1 UEBR 22 H
R9(1)	PMA1	C6	68n	%E9(15)	R198(1)	PMA3	C1	68n	CHX2 CAM 26 H	R133(1)	PMA3	C5	68n	PAG7 PT 22 A H	R18(1)	PMA1	B1	68n	PMA1 UEBR 23 H
R5(1)	PMA1	B7	68n	%E9(2)	R141(1)	PMA2	C2	68n	CLK1 PMA H	R21(1)	PMA3	C4	68n	PAG7 PT 23 A H	R90(1)	PMA1	A1	68n	PMA1 UEBR 24 H
R170(1)	PMA1	C6	68n	%E9(9)	R210(1)	PMA5	B7	68n	CSH1 CCA REQ GRANT H	R96(1)	PMA3	C3	68n	PAG7 PT 24 A H	R193(1)	PMA1	A1	68n	PMA1 UEBR 25 H
R104(1)	PMA5	D3	68n	APR EBOX ERA H	R209(1)	PMA5	B7	68n	CSH1 CHAN REQ GRANT H	R201(1)	PMA3	C2	68n	PAG7 PT 25 A H	R188(1)	PMA1	A1	68n	PMA1 UEBR 26 H
R272(1)	PMA5	D3	68n	APR6 EBOX CCA H	R211(1)	PMA5	C5	68n	CSH1 EBOX CCA GRANT H	R86(1)	PMA1	C2	68n	PMA1 CCA 14 H	R7(1)	PMA1	B7	68n	PMA1 VA 14 H
R103(1)	PMA5	D3	68n	APR6 EBOX EBR H	R213(1)	PMA5	C5	68n	CSH1 EBOX ERA GRANT H	R75(1)	PMA1	C2	68n	PMA1 EBR 14 H	R6(1)	PMA1	A7	68n	PMA1 VA 15 H
R71(1)	PMA5	C3	68n	APR6 EBOX UBR H	R212(1)	PMA5	D5	68n	CSH1 EBOX REQ GRANT H	R69(1)	PMA1	C6	68n	PMA1 EBR 15 H	R1(1)	PMA1	A7	68n	PMA1 VA 16 H
R205(1)	PMA5	D6	68n	CCL CHAN EPT H	R157(1)	PMA5	A7	68n	-CSH1 EBOX REQ GRANT A H	R66(1)	PMA1	C6	68n	PMA1 EBR 16 H	R3(1)	PMA1	A7	68n	PMA1 VA 17 H
R135(1)	PMA3	D7	68n	CCW CHA 14 H	R149(1)	PMA5	C8	68n	-CSH1 READY TO GO H	R65(1)	PMA1	C6	68n	PMA1 EBR 17 H	R105(1)	PMA1	B6	68n	PMA1 VA 18 H

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

	DRW. <i>J. J. J.</i> CHK'D D. DELLORCO	DATE 05-JUL-84 DATE 05-JUL-84	ENG. C. KACZOR BOARD LOCATION: 4AF29	DATE 05-JUL-84 SHEET 1 OF 2	TITLE: PHYSICAL MEMORY ADDRESS--TERMINATORS
	XTRA: MCA25, M8518, M8541, DRW 105-JUL-84 12:28	NEXT HIGHER ASSEMBLY: D-DD-M854-0	SIZE CODE D CS	NUMBER M854-0-RES	REV. A

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R215(1)	PMA1	B6	68n	-PMA1 VA 18 H
R42(1)	PMA1	A6	68n	PMA1 VA 19 H
R107(1)	PMA1	A6	68n	-PMA1 VA 19-21=7 H
R46(1)	PMA1	A6	68n	PMA1 VA 20 H
R50(1)	PMA1	A6	68n	PMA1 VA 21 H
R256(1)	PMA1	B5	68n	PMA1 VA 22 H
R222(1)	PMA1	B5	68n	PMA1 VA 23 H
R87(1)	PMA1	B4	68n	PMA1 VA 24 H
R131(1)	PMA1	A4	68n	PMA1 VA 25 H
R265(1)	PMA1	A4	68n	PMA1 VA 26 H
R246(1)	PMA2	D6	68n	PMA2 CCA 15 H
R240(1)	PMA2	D6	68n	PMA2 CCA 16 H
R229(1)	PMA2	D6	68n	PMA2 CCA 17 H
R174(1)	PMA2	D6	68n	PMA2 CCA 18 H
R236(1)	PMA2	D5	68n	PMA2 CCA 19 H
R20(1)	PMA2	D5	68n	PMA2 CCA 20 H
R184(1)	PMA2	D5	68n	PMA2 CCA 21 H
R132(1)	PMA2	D5	68n	PMA2 CCA 22 H
R24(1)	PMA2	D3	68n	PMA2 CCA 23 H
R94(1)	PMA2	D3	68n	PMA2 CCA 24 H
R199(1)	PMA2	D3	68n	PMA2 CCA 25 H
R194(1)	PMA2	B6	68n	PMA2 CCA 26 H
R50(1)	PMA2	B6	68n	PMA2 CCA 27 H
R36(1)	PMA2	B6	68n	PMA2 CCA 28 H
R37(1)	PMA2	B6	68n	PMA2 CCA 29 H
R31(1)	PMA2	B5	68n	PMA2 CCA 30 H
R25(1)	PMA2	B5	68n	PMA2 CCA 31 H
R26(1)	PMA2	B5	68n	PMA2 CCA 32 H
R27(1)	PMA2	B5	68n	PMA2 CCA 33 H
R113(1)	PMA2	B3	68n	PMA2 CCA 34 H
R109(1)	PMA2	B3	68n	PMA2 CCA 35 H
R74(1)	PMA2	C7	68n	PMA2 CCA LOAD H
R4(1)	PMA2	C6	68n	-PMA2 CCA LOAD H
R142(1)	PMA2	C2	68n	PMA2 CLOCK A H
R56(1)	PMA2	C2	68n	PMA2 CLOCK B H
R63(1)	PMA2	C2	68n	PMA2 CLOCK C H
R16(1)	PMA2	C2	68n	PMA2 CLOCK D H
R121(1)	PMA2	C2	68n	PMA2 CLOCK E H
R2(1)	PMA2	C2	68n	PMA2 CLOCK F H
R268(1)	PMA2	C6	68n	PMA2 HI

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

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R136(1)	PMA4	D7	68n	PMA4 ERA 14 H
R250(1)	PMA4	D7	68n	PMA4 ERA 15 H
R242(1)	PMA4	D7	68n	PMA4 ERA 16 H
R227(1)	PMA4	D7	68n	PMA4 ERA 17 H
R172(1)	PMA4	D6	68n	PMA4 ERA 18 H
R235(1)	PMA4	D6	68n	PMA4 ERA 19 H
R82(1)	PMA4	D6	68n	PMA4 ERA 20 H
R185(1)	PMA4	D6	68n	PMA4 ERA 21 H
R134(1)	PMA4	D5	68n	PMA4 ERA 22 H
R22(1)	PMA4	D5	68n	PMA4 ERA 23 H
R95(1)	PMA4	D5	68n	PMA4 ERA 24 H
R200(1)	PMA4	D5	68n	PMA4 ERA 25 H
R139(1)	PMA4	D4	68n	PMA4 ERA 26 H
R61(1)	PMA4	D4	68n	PMA4 ERA 27 H
R39(1)	PMA4	D4	68n	PMA4 ERA 28 H
R43(1)	PMA4	D4	68n	PMA4 ERA 29 H
R47(1)	PMA4	D3	68n	PMA4 ERA 30 H
R51(1)	PMA4	D3	68n	PMA4 ERA 31 H
R257(1)	PMA4	D3	68n	PMA4 ERA 32 H
R221(1)	PMA4	D3	68n	PMA4 ERA 33 H
R116(1)	PMA4	D1	68n	PMA4 ERA 34 H
R108(1)	PMA4	D1	68n	PMA4 ERA 35 H
R181(1)	PMA5	D2	68n	PMA5 14-26 SEL 1 H
R271(1)	PMA5	D2	68n	-PMA5 14-26 SEL 1 H
R180(1)	PMA5	D2	68n	PMA5 14-26 SEL 2 H
R270(1)	PMA5	D2	68n	-PMA5 14-26 SEL 2 H
R179(1)	PMA5	D2	68n	PMA5 14-26 SEL 4 H
R269(1)	PMA5	D2	68n	-PMA5 14-26 SEL 4 H
R62(1)	PMA5	C3	68n	PMA5 27 SEL 1 H
R53(1)	PMA5	C3	68n	PMA5 27 SEL 2 H
R57(1)	PMA5	D3	68n	PMA5 27 SEL 4 H
R40(1)	PMA5	A3	68n	PMA5 28-31 SEL 1 H
R98(1)	PMA5	C3	68n	PMA5 28-31 SEL 2 H
R35(1)	PMA5	C3	68n	PMA5 28-31 SEL 4 H
R220(1)	PMA5	A3	68n	PMA5 32-33 SEL 1 H
R258(1)	PMA5	A3	68n	PMA5 32-33 SEL 2 H
R259(1)	PMA5	A3	68n	PMA5 32-33 SEL 4 H
R117(1)	PMA5	B2	68n	PMA5 34-35 SEL 1 H
R118(1)	PMA5	B2	68n	PMA5 34-35 SEL 2 H
R112(1)	PMA5	B2	68n	PMA5 34-35 SEL 4 H

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R208(1)	PMA5	D7	68n	PMA5 PAGE REFILL 3,4 H
R216(1)	PMA5	D7	68n	PMA5 PAGE REFILL 5,7 H
R264(1)	PMA5	C7	68n	PMA5 PAGE REFILL 7 H
R206(1)	PMA5	C7	68n	PMA5 PAGE REFILL T4 A H
R266(1)	PMA5	C7	68n	-PMA5 PAGE REFILL T4 A H
R207(1)	PMA5	D7	68n	-PMA5 PGRF UBR COND H
R223(1)	PMA5	C2	68n	PMA5 UBR SEL H
R77(1)	PMA5	C2	68n	-PMA5 UBR SEL H
R261(1)	PMA5	B7	68n	PMA5 VMA EXEC PER PROC H
R214(1)	PMA5	B7	68n	-PMA5 VMA EXEC PER PROC H
R156(1)	PMA5	B7	68n	PMA5 WRITEBACK T2 A H
R267(1)	PMA5	B7	68n	-PMA5 WRITEBACK T2 A H
R13(1)	PMA1	B6	68n	VMA 18 A H
R14(1)	PMA1	B6	68n	VMA 19 A H
R10(1)	PMA1	A6	68n	VMA 20 A H
R15(1)	PMA1	A6	68n	VMA2 VMA 21 A H
R78(1)	PMA1	B5	68n	VMA2 VMA 22 A H
R17(1)	PMA1	B5	68n	VMA2 VMA 23 A H
R91(1)	PMA1	B5	68n	VMA2 VMA 24 A H
R192(1)	PMA1	A5	68n	VMA2 VMA 25 A H
R182(1)	PMA1	A5	68n	VMA2 VMA 26 A H
R59(1)	PMA3	A7	68n	VMA2 VMA 27 H
R33(1)	PMA3	A6	68n	VMA2 VMA 28 H
R38(1)	PMA3	A5	68n	VMA2 VMA 29 H
R41(1)	PMA3	A4	68n	VMA2 VMA 30 H
R45(1)	PMA3	A3	68n	VMA2 VMA 31 H
R253(1)	PMA4	C7	68n	VMA2 VMA 32 H
R260(1)	PMA4	C6	68n	VMA2 VMA 33 H
R110(1)	PMA4	C5	68n	VMA2 VMA 34 H
R106(1)	PMA4	C4	68n	VMA2 VMA 35 H

D

D

C

C

B

B

A

A

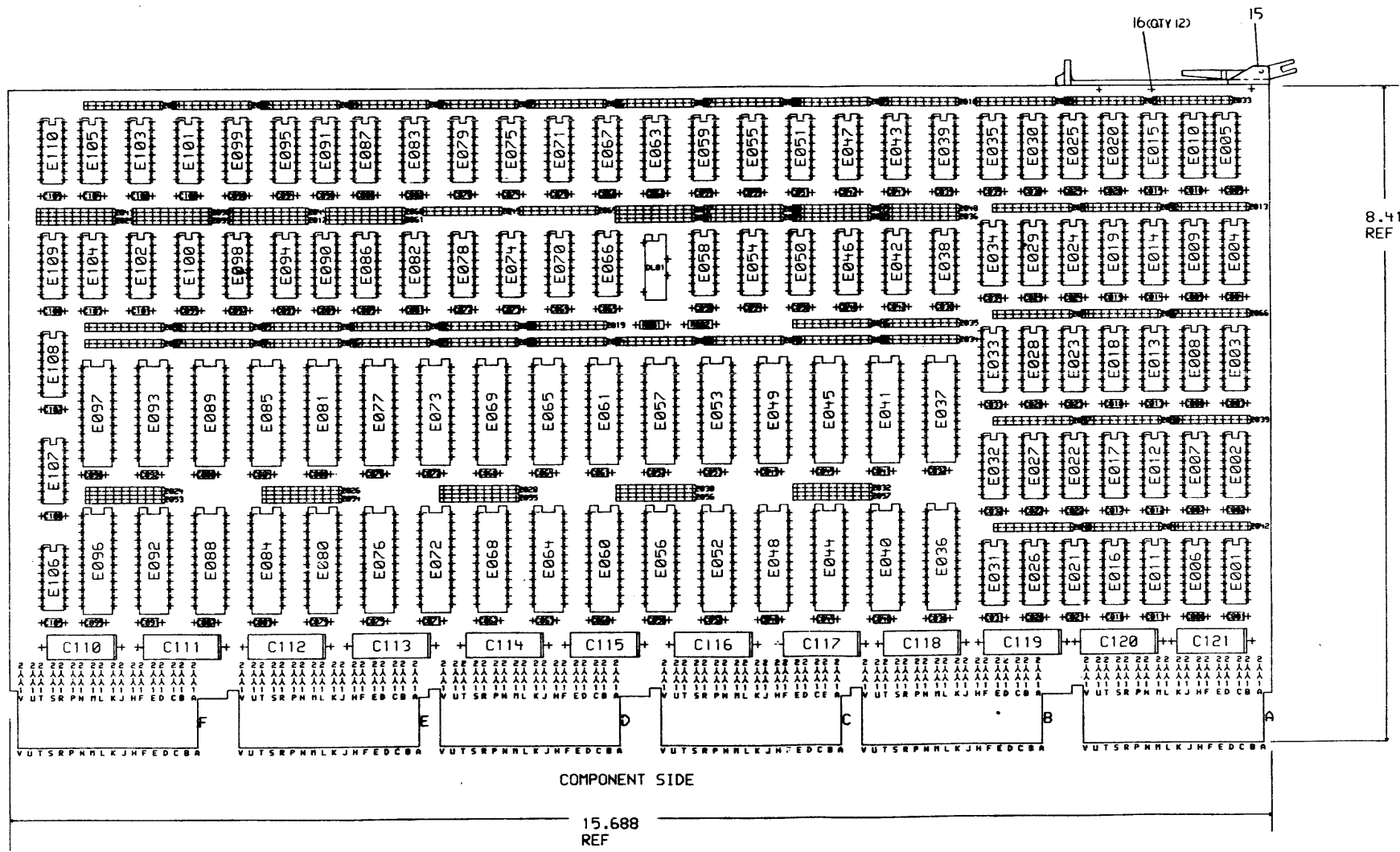
REV. A
 NUMBER M854-0-RES
 SIZE CODE CS
 D

REVISIONS	
CHK	CHANGE NO. REV

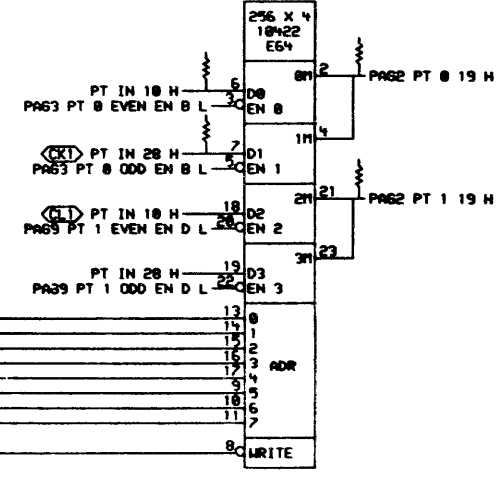
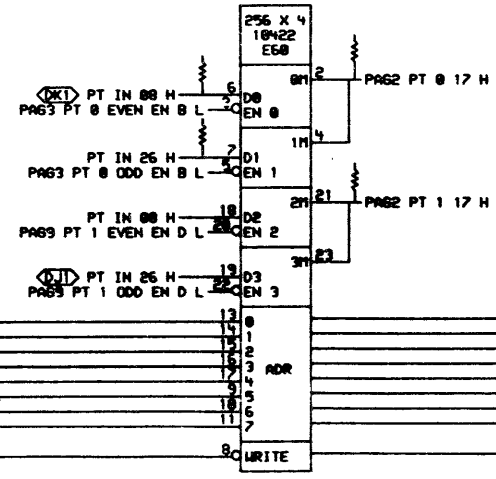
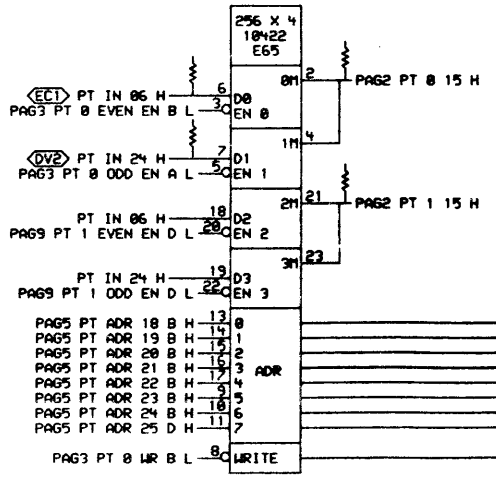
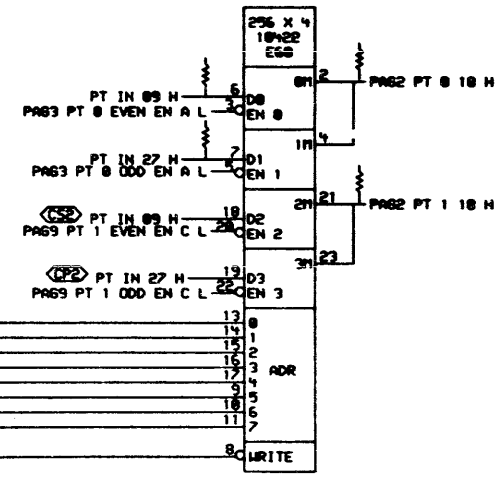
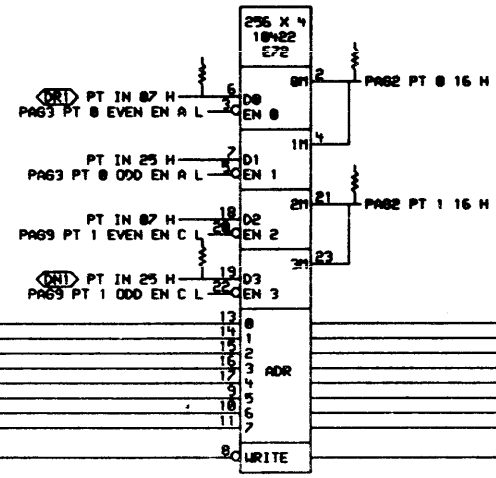
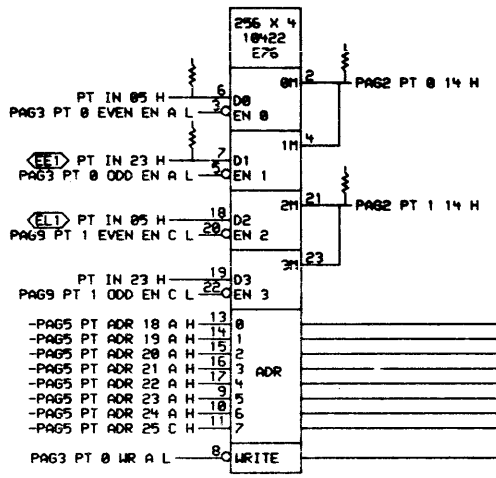
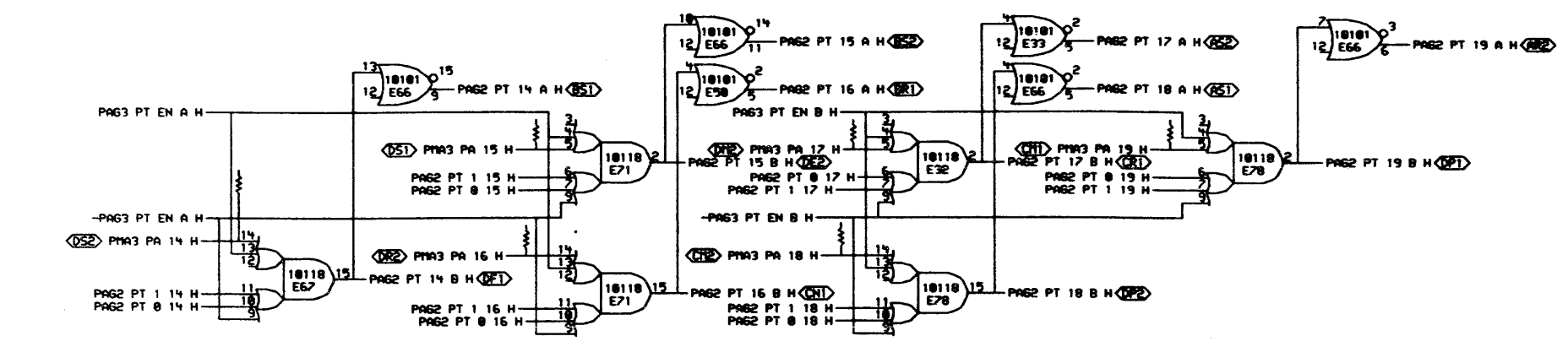
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digital	DATE 05-JUL-84	ENG. C. KACZOR	DATE 05-JUL-84	TITLE: PHYSICAL MEMORY ADDRESS--TERMINATORS
	CHK'D D. DELLORCO	BOARD LOCATION: 4AF29	SHEET 2 OF 2	SIZE CODE NUMBER REV. D CS M854-0-RES A
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M854-0		

NOTES: THIS BOARD MUST MEET SAFETY REQ. FOR HPWR.
 2. SPARE COMPONENT LOCATIONS ARE: E12, E43, E103, E105.



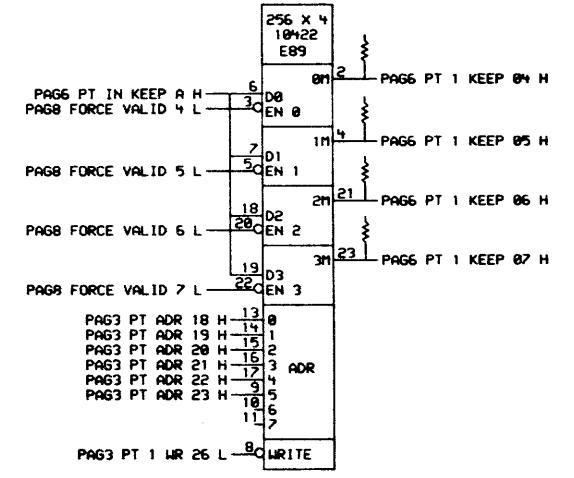
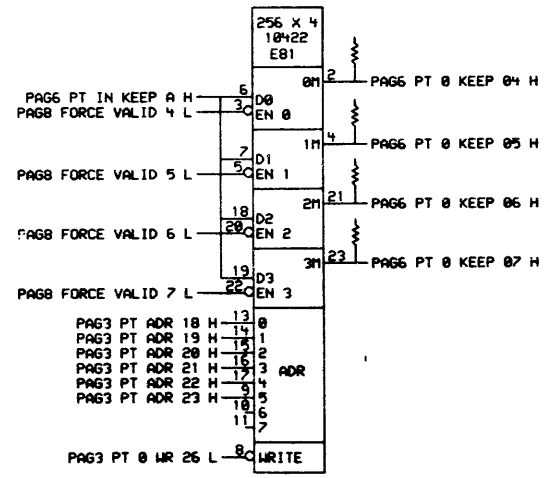
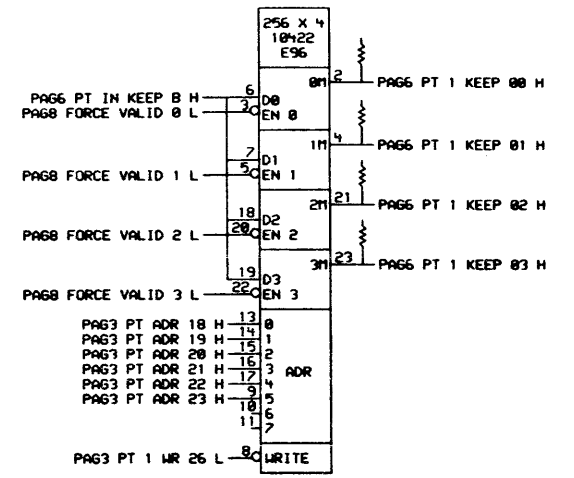
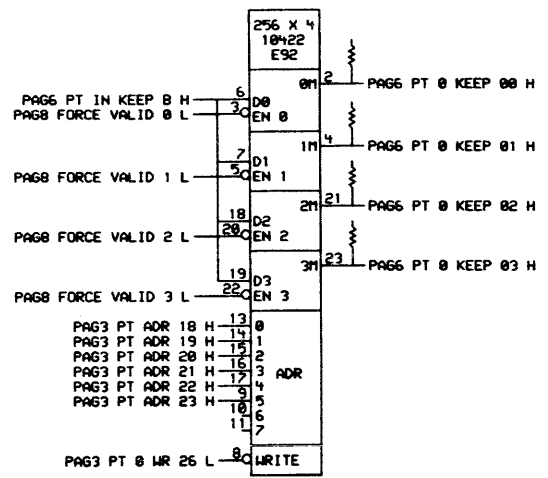
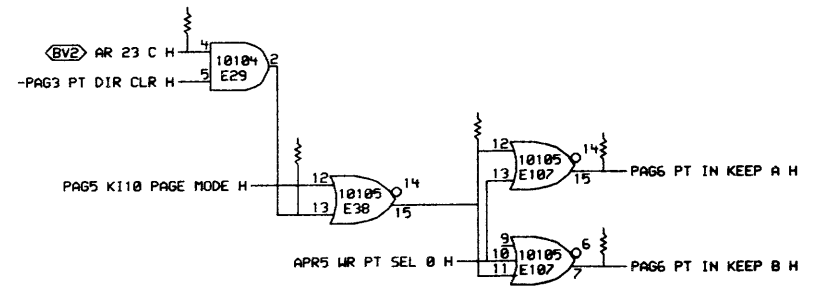
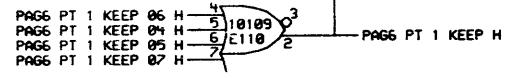
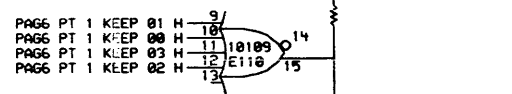
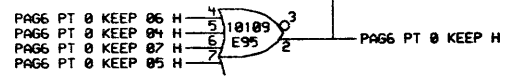
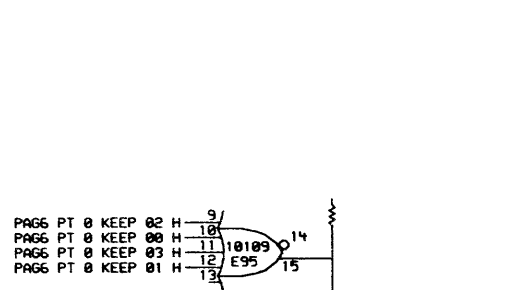
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CHK'D D. Sweeney	DATE 14 Jun 84		
DES. ENG. C. Hays	DATE 7-25-84		
RESP. ENG. C. Hays	DATE 7-25-84		
CHK'D ENG. D. Sweeney	DATE 26 July 84		
NEXT HIGHER DOC 0-00-M855-0		DOCUMENT NUMBER E VA M855 0 0	REV AI
		SCALE 2 / 1	SHEET 1



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REVISIONS	
CHK	CHANGE NO. REV.

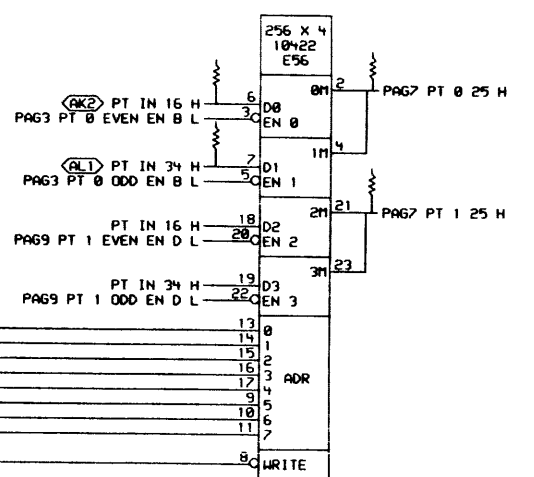
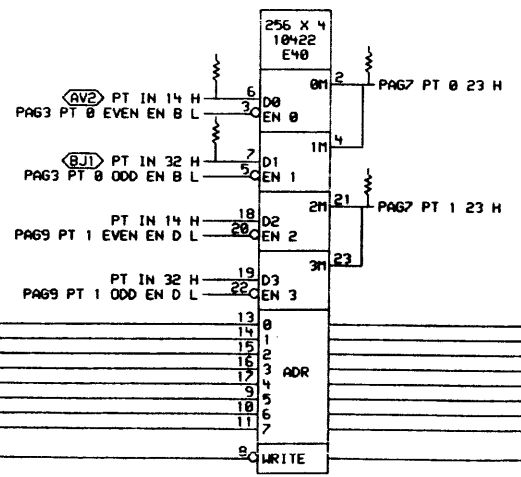
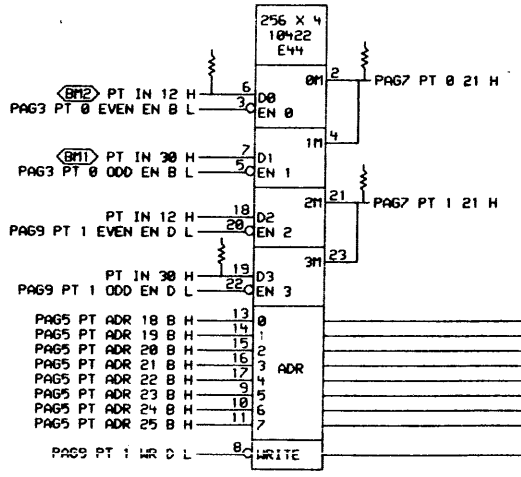
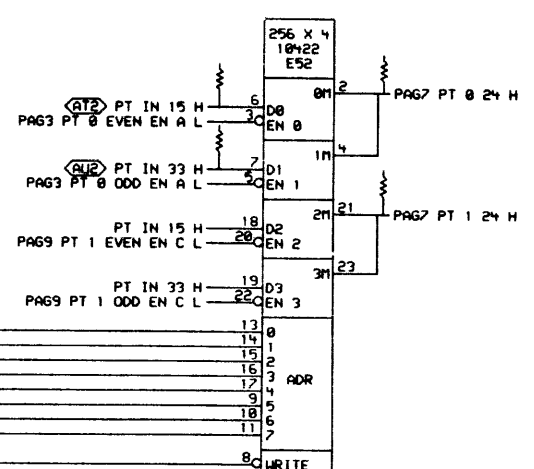
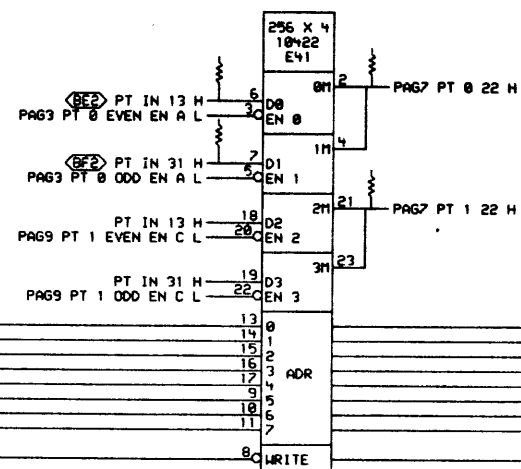
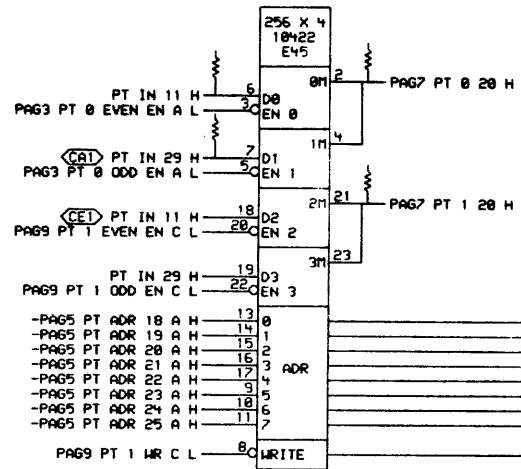
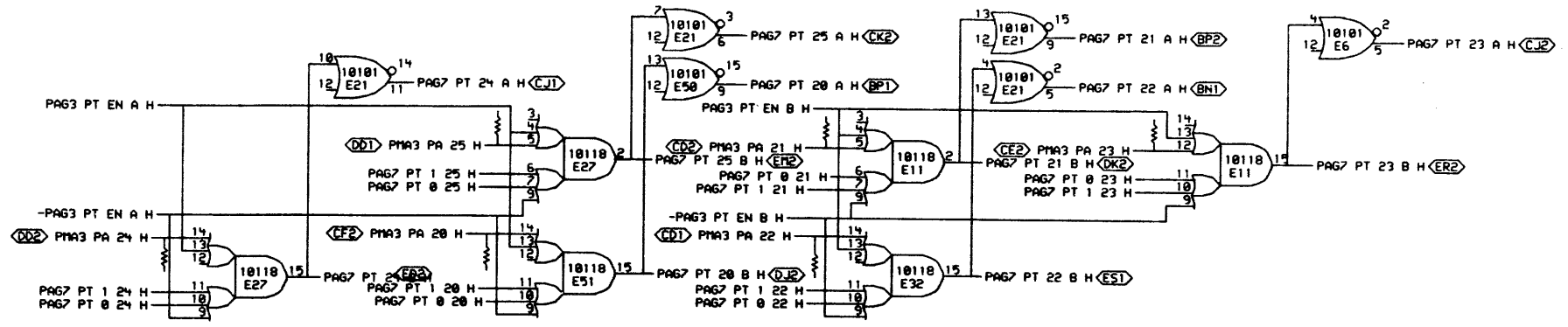
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FIRST USED ON OPTION MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE D CS	NUMBER M855-0-PAGE2
					REV. A1



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REVISIONS
CHK CHANGE NO. REV

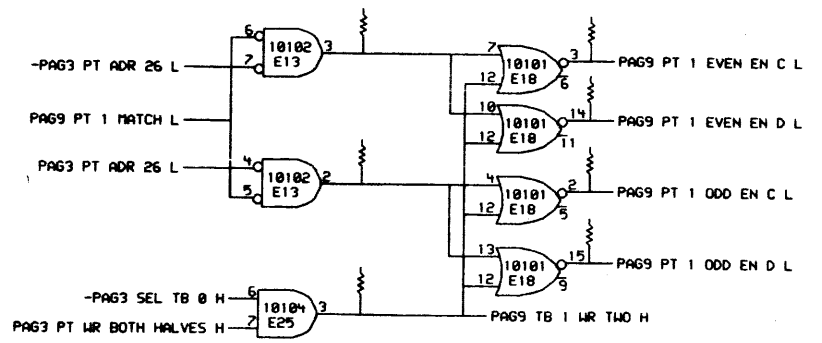
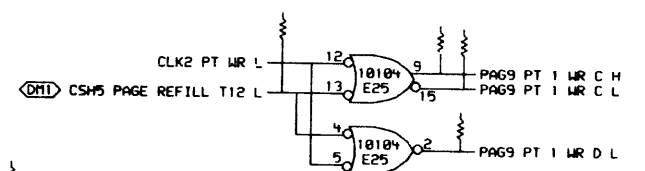
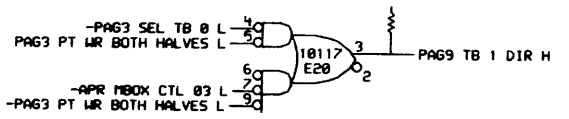
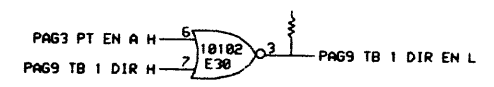
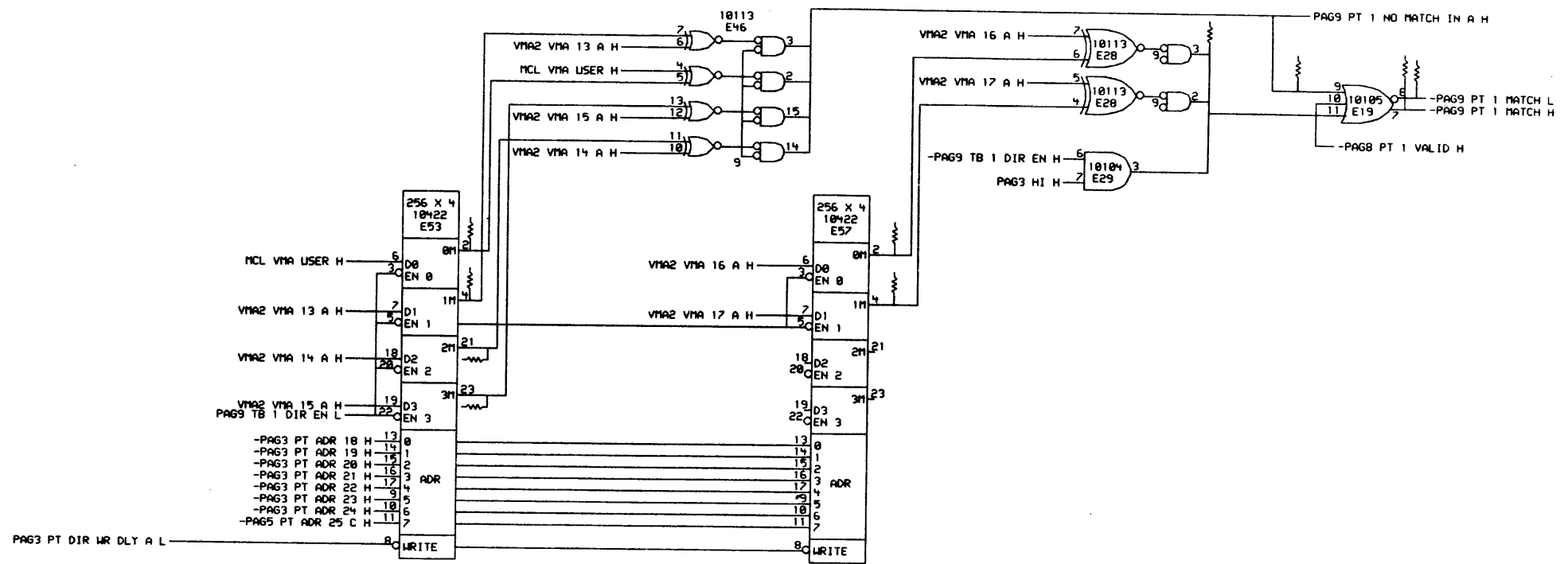
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			SHEET: 1 OF 1		
			NEXT HIGHER ASSEMBLY: D-DD-M855-0		
			FIRST USED ON OPTION/MODEL: MCA25		
			SIZE CODE: D CS	NUMBER: M855-0-PAGE	REV: A1



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REVISIONS	CHANGE NO.	REV.
CHK		

DRN. C. KACZOR	DATE 23-JUL-84	ENG. C. KACZOR	DATE 23-JUL-84	TITLE: PAGE TABLE DATA
CHK'D D. DELLORCO	DATE 23-JUL-84	BOARD LOCATION: 14F30	SHEET 1	PT 20 - 25
NEXT HIGHER ASSEMBLY:			SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: MCA25			D CS	M855-0-PAG7
				REV. A1



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CHK	REVISIONS
CHANGE NO.	REV.

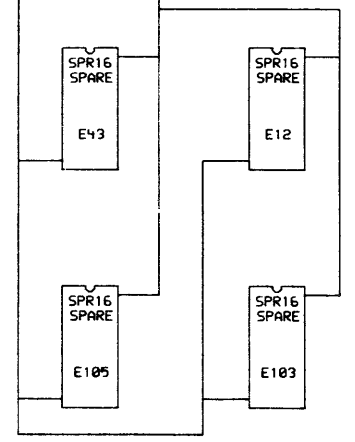
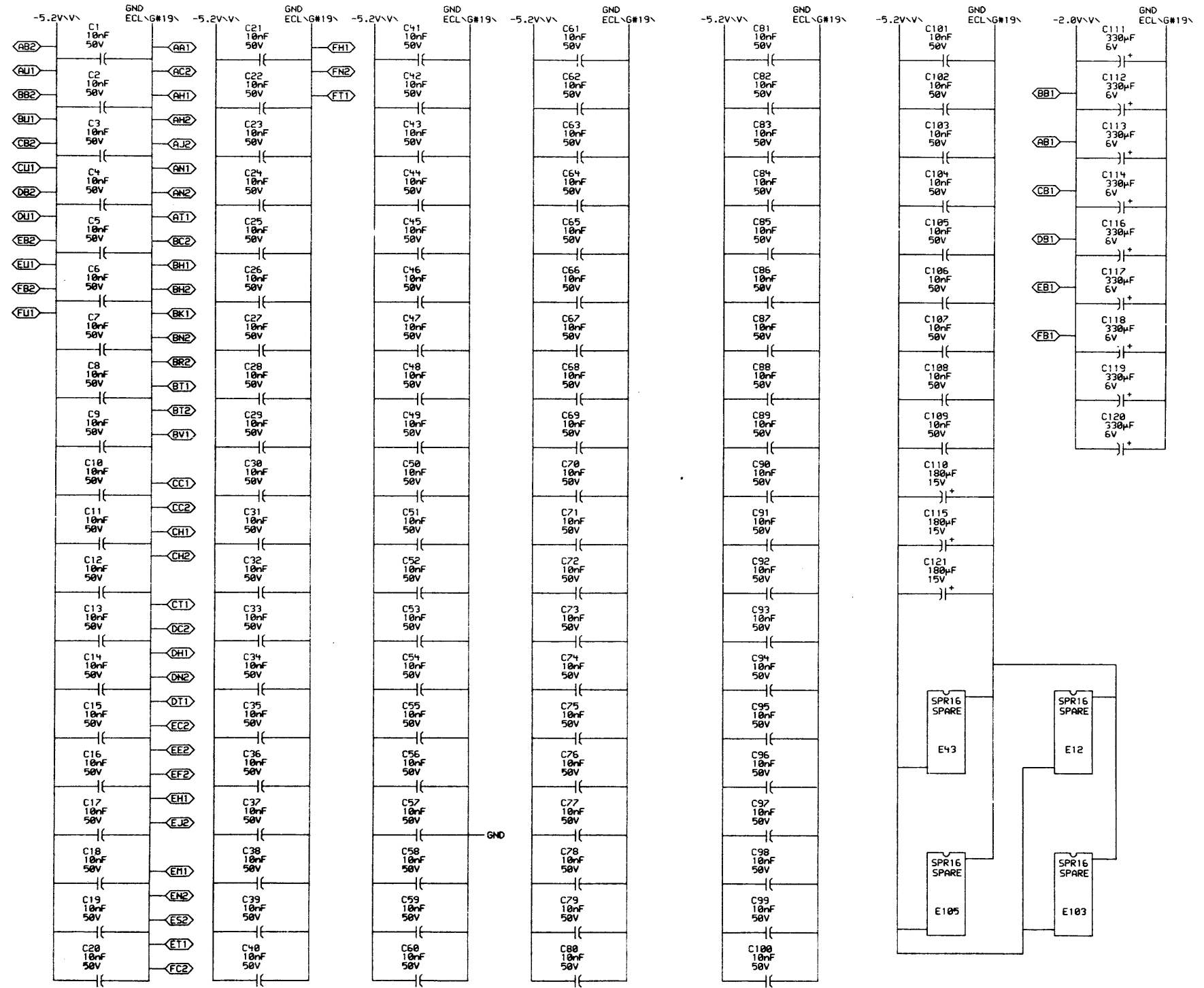
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FIRST USED ON OPTION/MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE: D CS M855-0-PAG9
					REV. A1

D

C

B

A



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REVISIONS		
CHK	CHANGE NO.	REV

	DRN. C. KACZOR	DATE 23-JUL-84	ENG. C. KACZOR	DATE 23-JUL-84	TITLE: PAGING BOARD POWER, GND, CAP
	CHK'D D. DELLORCO	DATE 23-JUL-84	BOARD LOCATION: 4AF30	SHEET 1 OF 1	REV. A1
FIRST USED ON OPTION MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE D CS

REV. A1
NUMBER M855-0-PAGA
SIZE CODE D CS
D

[B,GND ECL,
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 ECL\G#19\] —(AA2)
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 ECL\G#19\] —(BA2)
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 [B,GND
 ECL\G#19\,NC] —(EK2)

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REVISIONS		
CHK	CHANGE NO.	REV

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FIRST USED ON OPTION/MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE NUMBER REV. D CS M855-0-PAGB A1

REV. A1
 NUMBER M855-0-PAGB
 CS
 D
 MRO

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
212(3)	PAG3	C2	68Ω	∓E10K(3)	223(5)	PAG9	C5	68Ω	∓E53(2)	212(8)	PAG3	B2	68Ω	-CLK2 PT WR H	247(10)	PAG2	C6	68Ω	PAG2 PT 0 14 H
253(8)	PAG4	C2	68Ω	∓E102(6)	223(1)	PAG9	C5	68Ω	∓E53(21)	238(6)	PAG5	B4	68Ω	-CON KI10 PAGING MODE H	265(8)	PAG2	B6	68Ω	PAG2 PT 0 15 H
259(3)	PAG4	A3	68Ω	∓E104(15)	223(3)	PAG9	C5	68Ω	∓E53(23)	211(3)	PAG3	B5	68Ω	CSH1 PRGF CYC A H	265(6)	PAG2	C4	68Ω	PAG2 PT 0 16 H
252(5)	PAG8	C2	68Ω	∓E100K(14)	246(6)	PAG9	C5	68Ω	∓E53(4)	231(8)	PAG9	B2	68Ω	-CSH5 PAGE REFILL T12 H	232(8)	PAG2	B4	68Ω	PAG2 PT 0 17 H
227(6)	PAG8	C3	68Ω	∓E100K(15)	234(3)	PAG9	C4	68Ω	∓E57(2)	27(3)	PAG3	C7	68Ω	-CSH6 MBOX PT DIR WR H	250(5)	PAG2	C2	68Ω	PAG2 PT 0 18 H
227(10)	PAG8	D2	68Ω	∓E100K(2)	235(5)	PAG9	C4	68Ω	∓E57(4)	237(3)	PAG3	B5	68Ω	-CSH6 PAGE FAIL HOLD H	250(10)	PAG2	B2	68Ω	PAG2 PT 0 19 H
252(8)	PAG8	D2	68Ω	∓E100K(3)	249(5)	PAG4	C5	68Ω	∓E59(9)	250(1)	PAG4	C2	68Ω	CSH6 PAGE REFILL ERROR H	27(8)	PAG2	C6	68Ω	PAG2 PT 1 14 H
216(5)	PAG8	B2	68Ω	∓E109K(14)	235(6)	PAG3	D4	68Ω	∓E61(2)	250(3)	PAG4	C4	68Ω	-CSH6 PAGE REFILL ERROR H	265(10)	PAG2	A6	68Ω	PAG2 PT 1 15 H
216(8)	PAG8	B2	68Ω	∓E109K(15)	234(1)	PAG3	C4	68Ω	∓E61(4)	239(1)	PAG5	D8	68Ω	MB 00-05 PAR ODD H	26(6)	PAG2	C4	68Ω	PAG2 PT 1 16 H
216(6)	PAG8	B2	68Ω	∓E109K(2)	27(6)	PAG4	B7	68Ω	∓E63(15)	239(3)	PAG5	D7	68Ω	MB 06-11 PAR ODD H	232(1)	PAG2	A4	68Ω	PAG2 PT 1 17 H
251(8)	PAG8	B2	68Ω	∓E109K(3)	261(3)	PAG4	B6	68Ω	∓E63(2)	239(5)	PAG5	D8	68Ω	MB 12-17 PAR ODD H	250(3)	PAG2	C2	68Ω	PAG2 PT 1 18 H
267(10)	PAG9	A4	68Ω	∓E13K(2)	238(3)	PAG5	C7	68Ω	∓E7(10)	238(5)	PAG5	C8	68Ω	MB 18-23 PAR ODD H	250(8)	PAG2	A2	68Ω	PAG2 PT 1 19 H
271(5)	PAG9	A4	68Ω	∓E13K(3)	221(1)	PAG5	C3	68Ω	∓E70K(2)	239(10)	PAG5	C7	68Ω	MB 24-29 PAR ODD H	271(10)	PAG3	A7	68Ω	PAG3 HI H
241(10)	PAG1	D3	68Ω	∓E16K(14)	260(3)	PAG8	A7	68Ω	∓E75(10)	242(1)	PAG5	C7	68Ω	MB 30-35 PAR ODD H	214(5)	PAG3	B2	68Ω	-PAG3 PT 0 EVEN EN A H
230(3)	PAG5	B3	68Ω	∓E17K(15)	245(10)	PAG8	B7	68Ω	∓E75(11)	251(5)	PAG3	A5	68Ω	MB SEL 1 H	263(1)	PAG3	B2	68Ω	-PAG3 PT 0 EVEN EN B H
256(1)	PAG5	B3	68Ω	∓E17K(2)	260(5)	PAG8	B7	68Ω	∓E75(12)	217(8)	PAG3	A5	68Ω	MB SEL 2 H	213(6)	PAG3	C4	68Ω	-PAG3 PT 0 LRU H
210(3)	PAG1	D3	68Ω	∓E19K(3)	24(5)	PAG8	B6	68Ω	∓E75(13)	271(8)	PAG4	D8	68Ω	MCL VMA USER H	244(8)	PAG3	D1	68Ω	PAG3 PT 0 MATCH H
238(1)	PAG5	C7	68Ω	∓E2(10)	24(10)	PAG8	C7	68Ω	∓E75(3)	269(3)	PAG3	B7	68Ω	MCL2 VMA EXEC H	240(1)	PAG3	D1	68Ω	-PAG3 PT 0 MATCH H
239(6)	PAG5	D7	68Ω	∓E2(13)	24(8)	PAG8	C7	68Ω	∓E75(4)	27(1)	PAG4	A4	68Ω	-MCL2 VMA WRITE H	266(10)	PAG3	D2	68Ω	PAG3 PT 0 NO MATCH IN A H
239(8)	PAG5	D7	68Ω	∓E2(3)	24(1)	PAG8	C7	68Ω	∓E75(5)	224(6)	PAG4	C2	68Ω	MCL3 PAGE ADDRESS COND H	215(3)	PAG3	A2	68Ω	-PAG3 PT 0 ODD EN A H
240(3)	PAG1	C3	68Ω	∓E22K(14)	260(6)	PAG8	D7	68Ω	∓E75(6)	29(5)	PAG4	D7	68Ω	MCL3 PAGE ILL ENTRY H	263(3)	PAG3	A2	68Ω	-PAG3 PT 0 ODD EN B H
266(6)	PAG3	D2	68Ω	∓E23K(3)	266(1)	PAG3	B3	68Ω	∓E8(14)	211(6)	PAG4	C4	68Ω	-MCL3 PAGE ILL ENTRY H	216(3)	PAG3	D2	68Ω	-PAG3 PT 0 WR 26 H
269(5)	PAG5	D2	68Ω	∓E26K(2)	266(5)	PAG3	A3	68Ω	∓E8(15)	236(6)	PAG4	B6	68Ω	MCL3 PAGE TEST PRIVATE H	214(1)	PAG3	B1	68Ω	-PAG3 PT 0 WR A H
212(5)	PAG9	C2	68Ω	∓E20K(2)	257(3)	PAG1	B3	68Ω	∓E8(2)	253(10)	PAG4	C2	68Ω	MCL5 VMA ADR ERR H	263(5)	PAG3	B1	68Ω	-PAG3 PT 0 WR B H
240(5)	PAG5	D3	68Ω	∓E29K(14)	257(5)	PAG1	A3	68Ω	∓E8(3)	240(1)	PAG4	D7	68Ω	MCL6 PAGE UEBR REF H	253(6)	PAG3	C2	68Ω	-PAG3 PT 1 WR 26 H
236(3)	PAG6	B7	68Ω	∓E29K(2)	244(10)	PAG3	A7	68Ω	∓E86(2)	241(8)	PAG1	B2	68Ω	PAG1 PT 0 26 H	214(6)	PAG3	D7	68Ω	PAG3 PT ADR 18 H
229(8)	PAG8	C6	68Ω	∓E30K(14)	217(10)	PAG3	A7	68Ω	∓E86(5)	243(1)	PAG1	C7	68Ω	PAG1 PT 0 ACCESS H	230(10)	PAG3	D7	68Ω	-PAG3 PT ADR 18 H
211(10)	PAG8	C3	68Ω	∓E30K(15)	263(6)	PAG8	B5	68Ω	∓E90K(15)	259(8)	PAG1	C3	68Ω	PAG1 PT 0 CACHE H	224(3)	PAG3	B7	68Ω	PAG3 PT ADR 19 H
22(8)	PAG4	C4	68Ω	∓E34(15)	263(8)	PAG8	B5	68Ω	∓E90K(2)	260(3)	PAG1	B7	68Ω	PAG1 PT 0 PUBLIC H	230(8)	PAG3	B7	68Ω	-PAG3 PT ADR 19 H
260(1)	PAG4	C7	68Ω	∓E34(3)	263(10)	PAG8	B5	68Ω	∓E90K(3)	219(10)	PAG1	B5	68Ω	PAG1 PT 0 SOFTWARE H	214(8)	PAG3	B7	68Ω	PAG3 PT ADR 20 H
227(1)	PAG8	B5	68Ω	∓E35K(15)	262(8)	PAG8	B5	68Ω	∓E91(14)	262(5)	PAG1	C5	68Ω	PAG1 PT 0 WRITABLE H	220(6)	PAG3	B7	68Ω	-PAG3 PT ADR 20 H
210(1)	PAG1	D3	68Ω	∓E35K(3)	215(10)	PAG8	C5	68Ω	∓E91(15)	237(1)	PAG1	B1	68Ω	PAG1 PT 1 26 H	215(8)	PAG3	D7	68Ω	PAG3 PT ADR 21 H
227(8)	PAG8	C3	68Ω	∓E35K(7)	227(3)	PAG8	D5	68Ω	∓E91(2)	259(10)	PAG1	C7	68Ω	PAG1 PT 1 ACCESS H	264(1)	PAG3	D7	68Ω	-PAG3 PT ADR 21 H
224(10)	PAG6	B7	68Ω	∓E38K(15)	252(3)	PAG8	D5	68Ω	∓E91(3)	259(6)	PAG1	C3	68Ω	PAG1 PT 1 CACHE H	227(5)	PAG3	D7	68Ω	PAG3 PT ADR 22 H
238(10)	PAG5	B4	68Ω	∓E4(2)	214(10)	PAG8	C5	68Ω	∓E94(15)	239(10)	PAG1	A3	68Ω	-PAG1 PT 1 EV EN 26 H	220(8)	PAG3	D7	68Ω	-PAG3 PT ADR 22 H
29(6)	PAG4	D4	68Ω	∓E42K(2)	211(5)	PAG3	B7	68Ω	APR5 WR PT SEL 0 H	246(1)	PAG1	A3	68Ω	-PAG1 PT 1 OD EN 26 H	253(5)	PAG3	C7	68Ω	PAG3 PT ADR 23 H
235(1)	PAG3	D5	68Ω	∓E49K(2)	251(1)	PAG3	B7	68Ω	APR5 WR PT SEL 1 H	260(6)	PAG1	A7	68Ω	PAG1 PT 1 PUBLIC H	264(5)	PAG3	C7	68Ω	-PAG3 PT ADR 23 H
235(3)	PAG3	C5	68Ω	∓E49K(21)	237(5)	PAG3	B5	68Ω	-APR5 WR PT SEL 1 H	219(8)	PAG1	A5	68Ω	PAG1 PT 1 SOFTWARE H	246(8)	PAG3	A5	68Ω	PAG3 PT ADR 24 H
271(1)	PAG3	C5	68Ω	∓E49K(23)	236(1)	PAG6	B7	68Ω	AR 23 C H	262(3)	PAG1	C5	68Ω	PAG1 PT 1 WRITABLE H	270(5)	PAG3	A5	68Ω	-PAG3 PT ADR 24 H
271(6)	PAG3	C5	68Ω	∓E49K(4)	247(1)	PAG3	C7	68Ω	-CLK2 PT DIR WR H	243(3)	PAG1	D7	68Ω	-PAG1 PT ACCESS H	22(3)	PAG5	B6	68Ω	PAG3 PT ADR 25 A IN H

- 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

digital	DRN	C.KACZOR	DATE	02-AUG-84	ENG	C.KACZOR	DATE	02-AUG-84	TITLE:	MULTIWIRE PAGER TERMINATORS
	CHK'D	D.DELLORCO	DATE	02-AUG-84	BOARD LOCATION:		OF	3	SIZE	D
FIRST USED ON OPTION MODEL:		MCA25	NEXT HIGHER ASSEMBLY:		D-DD-M855-0	NUMBER	M855-0-RES		REV.	A1

RESISTOR LOC(PIN)	SHOWN DR#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DR#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DR#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DR#	ON REF	VALUE	TERMINATES SIGNAL
22(5)	PAG3	A5	68n	PAG3 PT ADR 25 B IN H	262(10)	PAG4	B3	68n	-PAG4 PF CODE 2X H	21(8)	PAG6	B1	68n	PAG6 PT 1 KEEP 04 H	267(3)	PAG9	D1	68n	-PAG9 PT 1 MATCH H
267(5)	PAG3	A7	68n	PAG3 PT ADR 26 H	238(8)	PAG5	A7	68n	PAG5 K110 PAGE MODE H	225(10)	PAG6	B1	68n	PAG6 PT 1 KEEP 05 H	267(6)	PAG9	D2	68n	PAG9 PT 1 NO MATCH IN A H
266(8)	PAG3	A7	68n	-PAG3 PT ADR 26 H	240(6)	PAG5	B1	68n	PAG5 PT 0 EV PG PAR H	21(10)	PAG6	B1	68n	PAG6 PT 1 KEEP 06 H	226(10)	PAG9	A3	68n	-PAG9 PT 1 ODD EN C H
268(1)	PAG3	B7	68n	PAG3 PT ADR 26 A IN H	257(1)	PAG5	B1	68n	PAG5 PT 0 OD PG PAR H	243(10)	PAG6	A1	68n	PAG6 PT 1 KEEP 07 H	218(10)	PAG9	A3	68n	-PAG9 PT 1 ODD EN D H
213(3)	PAG3	B5	68n	PAG3 PT DIR CLR H	240(10)	PAG5	B1	68n	PAG5 PT 1 EV PG PAR H	216(1)	PAG6	B6	68n	PAG6 PT IN KEEP A H	212(1)	PAG9	B2	68n	PAG9 PT 1 WR C H
213(10)	PAG3	B5	68n	-PAG3 PT DIR CLR H	240(8)	PAG5	B1	68n	PAG5 PT 1 OD PG PAR H	253(1)	PAG6	A6	68n	PAG6 PT IN KEEP B H	256(5)	PAG9	B1	68n	-PAG9 PT 1 WR C H
R2(1)	PAG3	B7	100n	-PAG3 PT DIR WR H	226(3)	PAG5	C7	68n	-PAG5 PT ADR 18 A H	249(8)	PAG7	C7	68n	PAG7 PT 0 20 H	256(8)	PAG9	B1	68n	-PAG9 PT 1 WR D H
R1(1)	PAG3	B7	100n	-PAG3 PT DIR WR DLY H	218(3)	PAG5	C7	68n	PAG5 PT ADR 18 B H	241(5)	PAG7	B7	68n	PAG7 PT 0 21 H	211(8)	PAG9	B7	68n	PAG9 TB 1 DIR H
229(6)	PAG3	C7	68n	-PAG3 PT DIR WR DLY A H	254(5)	PAG5	B7	68n	-PAG5 PT ADR 19 A H	232(5)	PAG7	C4	68n	PAG7 PT 0 22 H	220(5)	PAG9	B7	68n	-PAG9 TB 1 DIR EN H
26(8)	PAG3	A1	68n	PAG3 PT EN A H	228(6)	PAG5	B7	68n	PAG5 PT ADR 19 B H	241(1)	PAG7	B4	68n	PAG7 PT 0 23 H	267(8)	PAG9	A4	68n	PAG9 TB 1 WR TWO H
265(5)	PAG3	A1	68n	-PAG3 PT EN A H	226(5)	PAG5	B7	68n	-PAG5 PT ADR 20 A H	232(3)	PAG7	C1	68n	PAG7 PT 0 24 H	27(10)	PAG2	D7	68n	PMA3 PA 14 H
245(6)	PAG3	A1	68n	PAG3 PT EN B H	228(8)	PAG5	B7	68n	PAG5 PT ADR 20 B H	232(6)	PAG7	B2	68n	PAG7 PT 0 25 H	26(10)	PAG2	D5	68n	PMA3 PA 15 H
258(6)	PAG3	A1	68n	-PAG3 PT EN B H	254(6)	PAG5	B7	68n	-PAG5 PT ADR 21 A H	223(8)	PAG7	C7	68n	PAG7 PT 1 20 H	26(5)	PAG2	D5	68n	PMA3 PA 16 H
27(5)	PAG3	D2	68n	PAG3 PT MATCH H	218(5)	PAG5	B7	68n	PAG5 PT ADR 21 B H	241(6)	PAG7	A7	68n	PAG7 PT 1 21 H	234(10)	PAG2	D4	68n	PMA3 PA 17 H
231(1)	PAG3	B5	68n	PAG3 PT WR BOTH HALVES H	246(5)	PAG5	C5	68n	-PAG5 PT ADR 22 A H	235(8)	PAG7	C4	68n	PAG7 PT 1 22 H	245(3)	PAG2	D4	68n	PMA3 PA 18 H
25(1)	PAG3	B5	68n	-PAG3 PT WR BOTH HALVES H	234(8)	PAG5	C5	68n	PAG5 PT ADR 22 B H	242(8)	PAG7	A4	68n	PAG7 PT 1 23 H	245(8)	PAG2	D3	68n	PMA3 PA 19 H
228(10)	PAG3	C1	68n	PAG3 SEL TB 0 H	216(10)	PAG5	B5	68n	-PAG5 PT ADR 23 A H	237(8)	PAG7	C1	68n	PAG7 PT 1 24 H	29(8)	PAG7	D5	68n	PMA3 PA 20 H
229(3)	PAG3	C1	68n	-PAG3 SEL TB 0 H	262(6)	PAG5	B5	68n	PAG5 PT ADR 23 B H	234(6)	PAG7	A2	68n	PAG7 PT 1 25 H	241(3)	PAG7	D4	68n	PMA3 PA 21 H
229(5)	PAG3	B5	68n	PAG3 TB 0 DIR H	226(8)	PAG5	B5	68n	-PAG5 PT ADR 24 A H	24(6)	PAG8	D4	68n	PAG8 CLR VALID H	234(5)	PAG7	D4	68n	PMA3 PA 22 H
264(3)	PAG3	B5	68n	-PAG3 TB 0 DIR EN H	25(3)	PAG5	B5	68n	PAG5 PT ADR 24 B H	224(5)	PAG8	D6	68n	-PAG8 FORCE VALID 0 H	242(10)	PAG7	D3	68n	PMA3 PA 23 H
266(3)	PAG3	A2	68n	PAG3 TB 0 WR TWO H	222(8)	PAG5	B5	68n	-PAG5 PT ADR 25 A H	253(3)	PAG8	D6	68n	-PAG8 FORCE VALID 1 H	237(6)	PAG7	D6	68n	PMA3 PA 24 H
233(1)	PAG4	D1	68n	PAG4 FORCE TB CLK H	257(6)	PAG5	B5	68n	PAG5 PT ADR 25 B H	224(1)	PAG8	C6	68n	-PAG8 FORCE VALID 2 H	237(10)	PAG7	D5	68n	PMA3 PA 25 H
233(8)	PAG4	A6	68n	-PAG4 FORCE TO TB 0 H	264(6)	PAG5	A5	68n	-PAG5 PT ADR 25 C H	252(6)	PAG8	C6	68n	-PAG8 FORCE VALID 3 H	226(6)	PAG1	C8	68n	PT IN 00 H
233(3)	PAG4	A6	68n	PAG4 FORCE TO TB 1 H	222(3)	PAG5	A5	68n	PAG5 PT ADR 25 D H	215(6)	PAG8	B6	68n	-PAG8 FORCE VALID 4 H	218(1)	PAG1	B8	68n	PT IN 01 H
220(1)	PAG4	D1	68n	-PAG4 MBOX CTL 03 H	22(10)	PAG5	C1	68n	PAG5 PT PAR ODD H	215(5)	PAG8	B6	68n	-PAG8 FORCE VALID 5 H	226(1)	PAG1	C6	68n	PT IN 02 H
268(5)	PAG4	D7	68n	PAG4 PAGE EXEC PAGED REF H	249(3)	PAG5	C2	68n	-PAG5 PT PAR ODD H	215(1)	PAG8	B6	68n	-PAG8 FORCE VALID 6 H	218(6)	PAG1	B6	68n	PT IN 03 H
225(3)	PAG4	D7	68n	-PAG4 PAGE EXEC PAGED REF H	229(10)	PAG6	D6	68n	PAG6 PT 0 KEEP H	214(3)	PAG8	A6	68n	-PAG8 FORCE VALID 7 H	228(10)	PAG1	C4	68n	PT IN 04 H
248(3)	PAG4	D7	68n	PAG4 PAGE EXEC REF H	244(1)	PAG6	D4	68n	PAG6 PT 0 KEEP 00 H	233(5)	PAG8	D2	68n	PAG8 PT 0 VALID H	255(8)	PAG2	C7	68n	PT IN 05 H
29(1)	PAG4	D7	68n	-PAG4 PAGE EXEC REF H	23(5)	PAG6	D4	68n	PAG6 PT 0 KEEP 01 H	271(3)	PAG8	D2	68n	-PAG8 PT 0 VALID H	264(10)	PAG2	B7	68n	PT IN 06 H
26(1)	PAG4	C3	68n	PAG4 PAGE FAIL A H	244(3)	PAG6	D4	68n	PAG6 PT 0 KEEP 02 H	211(1)	PAG8	D4	68n	PAG8 PT 0 VALID A H	255(6)	PAG2	C5	68n	PT IN 07 H
225(6)	PAG4	C3	68n	-PAG4 PAGE FAIL A H	23(1)	PAG6	C4	68n	PAG6 PT 0 KEEP 03 H	212(10)	PAG8	B4	68n	PAG8 PT 0 VALID B H	228(1)	PAG2	B5	68n	PT IN 08 H
265(3)	PAG4	B6	68n	PAG4 PAGE TEST PRIVATE H	23(10)	PAG6	B4	68n	PAG6 PT 0 KEEP 04 H	233(6)	PAG8	D2	68n	-PAG8 PT 1 VALID H	255(5)	PAG2	C2	68n	PT IN 09 H
225(5)	PAG4	B6	68n	-PAG4 PAGE TEST PRIVATE H	244(5)	PAG6	B4	68n	PAG6 PT 0 KEEP 05 H	224(8)	PAG8	D1	68n	PAG8 PT 1 VALID A H	255(1)	PAG2	B2	68n	PT IN 10 H
259(1)	PAG4	C6	68n	-PAG4 PAGE TEST WRITE H	23(8)	PAG6	B4	68n	PAG6 PT 0 KEEP 06 H	252(10)	PAG8	B1	68n	PAG8 PT 1 VALID B H	222(10)	PAG7	C7	68n	PT IN 11 H
29(3)	PAG4	C7	68n	-PAG4 PAGE UNPAGED REF H	244(6)	PAG6	A4	68n	PAG6 PT 0 KEEP 07 H	260(10)	PAG8	A6	68n	-PAG8 PT DIR CLR A H	257(10)	PAG7	B7	68n	PT IN 12 H
28(3)	PAG4	D7	68n	PAG4 PAGE USER PAGED REF H	212(6)	PAG6	C6	68n	PAG6 PT 1 KEEP H	225(8)	PAG8	A6	68n	-PAG8 PT DIR CLR B H	222(5)	PAG7	C5	68n	PT IN 13 H
225(1)	PAG4	D7	68n	-PAG4 PAGE USER PAGED REF H	243(8)	PAG6	D1	68n	PAG6 PT 1 KEEP 00 H	267(1)	PAG8	A6	68n	PAG8 SWEEP ALL H	257(8)	PAG7	B5	68n	PT IN 14 H
259(5)	PAG4	D4	68n	PAG4 PAGE WRITE OK H	243(6)	PAG6	D1	68n	PAG6 PT 1 KEEP 01 H	254(10)	PAG9	A3	68n	-PAG9 PT 1 EVEN EN C H	256(3)	PAG7	C2	68n	PT IN 15 H
249(1)	PAG4	D4	68n	-PAG4 PAGE WRITE OK H	21(6)	PAG6	D1	68n	PAG6 PT 1 KEEP 02 H	218(8)	PAG9	A3	68n	-PAG9 PT 1 EVEN EN D H	230(6)	PAG7	B2	68n	PT IN 16 H
252(1)	PAG4	A2	68n	-PAG4 PAGED REF H	243(5)	PAG6	C1	68n	PAG6 PT 1 KEEP 03 H	22(1)	PAG9	D1	68n	PAG9 PT 1 MATCH H	222(1)	PAG1	B3	68n	PT IN 17 H

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

REVISIONS		
CHK	CHANGE NO.	REV.

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digital	DRN. C.KACZOR	DATE 02-14-84	ENG. C.KACZOR	DATE 02-14-84	TITLE: MULTIWIRED PAGER TERMINATORS
	CHK'D D. DELLORCO	DATE 02-14-84	BOARD LOCATION: 2	SHEET 3	SIZE CODE D CS
FIRST USED ON OPTION/MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		NUMBER M855-0-RES
REV. A1					MED

RESISTOR LOC(PIN)	SHOWN ON DRAW	REF	VALUE	TERMINATES SIGNAL
Z54(8)	PAG1	C8	68Ω	PT IN 18 H
Z58(1)	PAG1	A8	68Ω	PT IN 19 H
Z54(3)	PAG1	C6	68Ω	PT IN 20 H
Z62(1)	PAG1	A6	68Ω	PT IN 21 H
Z54(1)	PAG1	C4	68Ω	PT IN 22 H
Z55(10)	PAG2	C7	68Ω	PT IN 23 H
Z64(8)	PAG2	A7	68Ω	PT IN 24 H
Z28(5)	PAG2	B5	68Ω	PT IN 25 H
Z56(10)	PAG2	A5	68Ω	PT IN 26 H
Z55(3)	PAG2	C2	68Ω	PT IN 27 H
Z28(3)	PAG2	A2	68Ω	PT IN 28 H
Z78(1)	PAG7	C7	68Ω	PT IN 29 H
Z38(1)	PAG7	A7	68Ω	PT IN 30 H
Z22(6)	PAG7	C5	68Ω	PT IN 31 H
Z32(10)	PAG7	B5	68Ω	PT IN 32 H
Z38(5)	PAG7	C2	68Ω	PT IN 33 H
Z56(6)	PAG7	B2	68Ω	PT IN 34 H
Z46(3)	PAG1	A3	68Ω	PT IN 35 H
Z13(5)	PAG5	A4	68Ω	SH AR PAR ODD A H
Z28(3)	PAG3	C6	68Ω	VMA2 VMA 13 A H
Z78(10)	PAG3	C6	68Ω	VMA2 VMA 14 A H
Z78(8)	PAG3	C6	68Ω	VMA2 VMA 15 A H
Z19(3)	PAG3	D4	68Ω	VMA2 VMA 16 A H
Z78(3)	PAG3	B7	68Ω	VMA2 VMA 17 H
Z19(5)	PAG3	C4	68Ω	VMA2 VMA 17 A H
Z42(6)	PAG3	D8	68Ω	VMA2 VMA 18 H
Z69(1)	PAG3	B7	68Ω	VMA2 VMA 19 H
Z78(6)	PAG3	B7	68Ω	VMA2 VMA 20 H
Z42(5)	PAG3	D8	68Ω	VMA2 VMA 21 H
Z36(8)	PAG3	D8	68Ω	VMA2 VMA 22 H
Z42(3)	PAG3	C8	68Ω	VMA2 VMA 23 H
Z51(10)	PAG3	A5	68Ω	VMA2 VMA 24 H
Z51(6)	PAG3	A7	68Ω	VMA2 VMA 25 H
Z61(1)	PAG3	A7	68Ω	VMA2 VMA 26 H

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

D
C
V
B
A

D
C
B
A
H

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN: C. KACZOR	DATE: 02-AUG-84	ENG: C. KACZOR	DATE: 02-AUG-84	FILE: MULTIWIRED PAGER TERMINATORS
	CHK: D. DELLORCO	DATE: 02-AUG-84	BOARD LOCATION: SHEET 3 OF 3		
FIRST USED ON OPTION/MODEL: MCA25			0-DU-M855-0	SIZE CODE: D CS	NUMBER: M855-0 RES

D
C
B
A

DRAWING NUMBER	NO.OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M855-00	MODULE REVISION	A2
D-UA-M855-0-0	2		2 WAY ASSOCIATIVE PAGER	B
K-PL-M855-0-DBP	2		PART LIST, M855	B
D-CS-M855-0-PAG1	1		PAGE TABLE DATA PT ACCESS-PT 17	B
D-CS-M855-0-PAG2	1		PAGE TABLE DATA PT 16 - PT 26	B
D-CS-M855-0-PAG3	1		PAGE TABLE DIRECTORY	B
D-CS-M855-0-PAG4	1		PAGE TABLE CONTROL LOGIC	B
D-CS-M855-0-PAG5	1		PAGE TABLE PARITY LOGIC	B
D-CS-M855-0-PAG6	1		PAGING KEEP BIT SELECTION	B
D-CS-M855-0-PAG7	1		PAGE TABLE DATA PT 20 - 25	B
D-CS-M855-0-PAG8	1		PAGE TABLE VALID BIT SELECTION	B
D-CS-M855-0-PAG9	1		PAGE TABLE 1 DIRECTORY	B
D-CS-M855-0-PAGA	1		PAGING BOARD POWER, GND, CAP	B
D-CS-M855-0-PAGB	1		PAGING BOARD GND	B
D-CS-M855-0-RES	3		PAG TERMINATORS	B
K-PC-M855-0-DBI	-		P.C. DESIGN DATA BASE TAPE	B
D-DD-5017661-0	2		DRAWING DIRECTORY, 5017661	REF

REV. A
NUMBER M855-0
SITE CODE DD
B

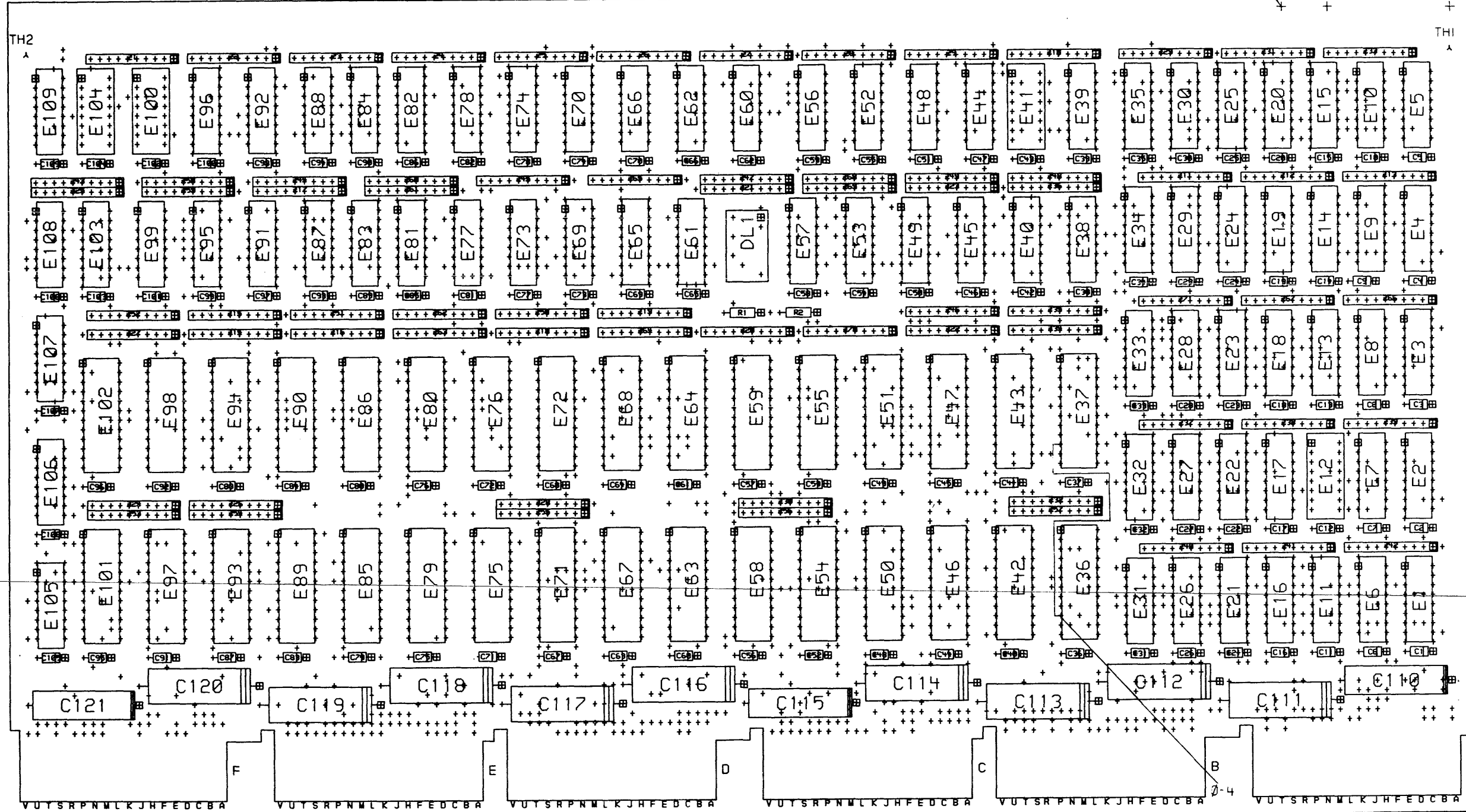
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 20-JUL-84	ENG. C. KACZOR	DATE 20-JUL-84	TITLE: M855
	CHK'D. D. DELLORCO	DATE 20-JUL-84	BOARD LOCATION: N/A	SHEET 2 OF 2	DRAWING DIRECTORY
DSK:M855A2.12PT4,211		20-JUL-84 08:02	NEXT HIGHER ASSEMBLY:	SIZE CODE D DD	NUMBER M855-0
FIRST USED ON OPTION/MODEL: MCA25		KL10-PW			REV. A

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COMPONENT SIDE VIEW
23(1712)



NOTES: 1. SPARE COMP. ARE: E12, E41, E100, E104.
2. THIS BOARD MUST MEET SAFETY REQ. FOR HPWR.

CHK	CHANGE NO	REV

STEP	E	Y AXIS	STEP	TIMES

ETCH REV. B1

SIGNATURES	DATE	digital
DRN. JMASCN	4-12-84	
CHK'D. <i>[Signature]</i>	10/2/89	TITLE 2 WAY
MECH. ENG. <i>[Signature]</i>		ASSOCIATIVE PAGER
PROJ. ENG. <i>[Signature]</i>		
PROD. <i>[Signature]</i>	2/6/87	
SCALE 2/1		
SHT. 1 OF 2		
TCP DCC NC D-DD-M855-0		

REWORK INSTRUCTIONS

NEW RELEASE

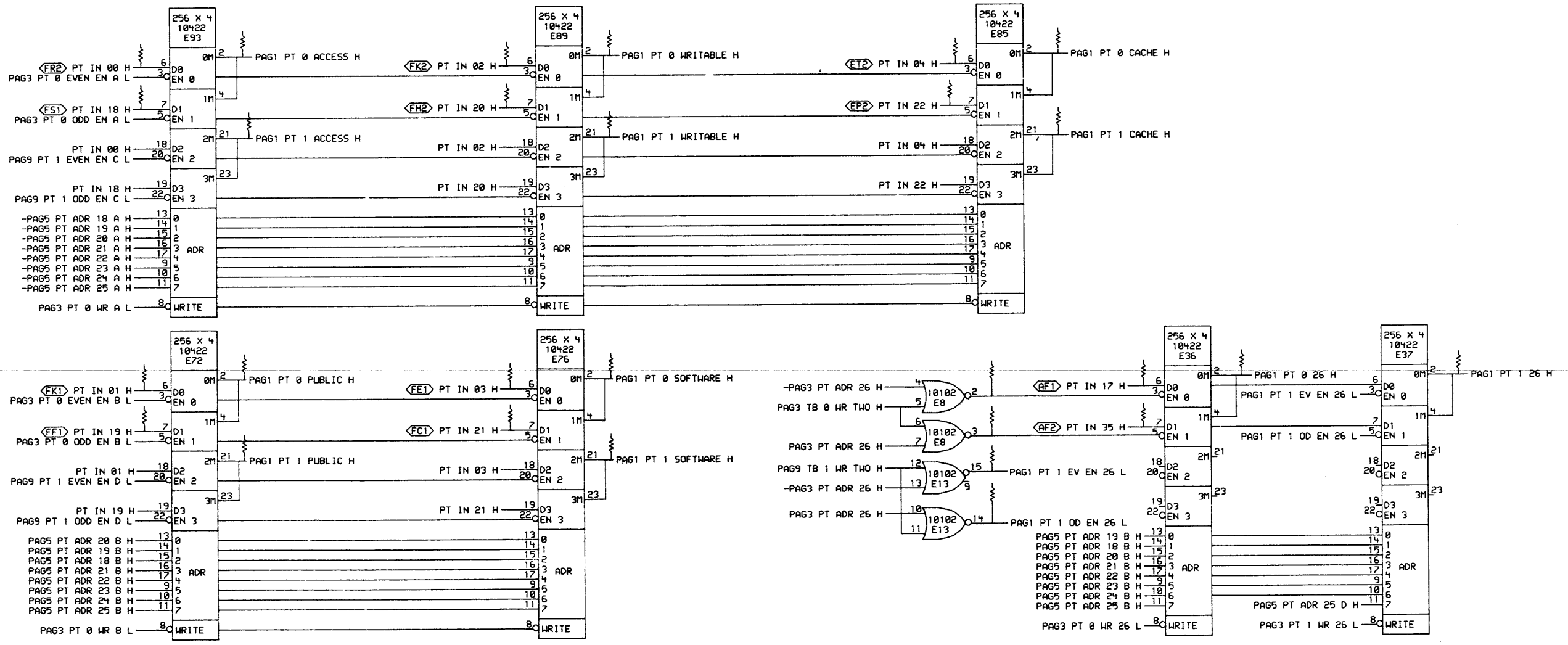
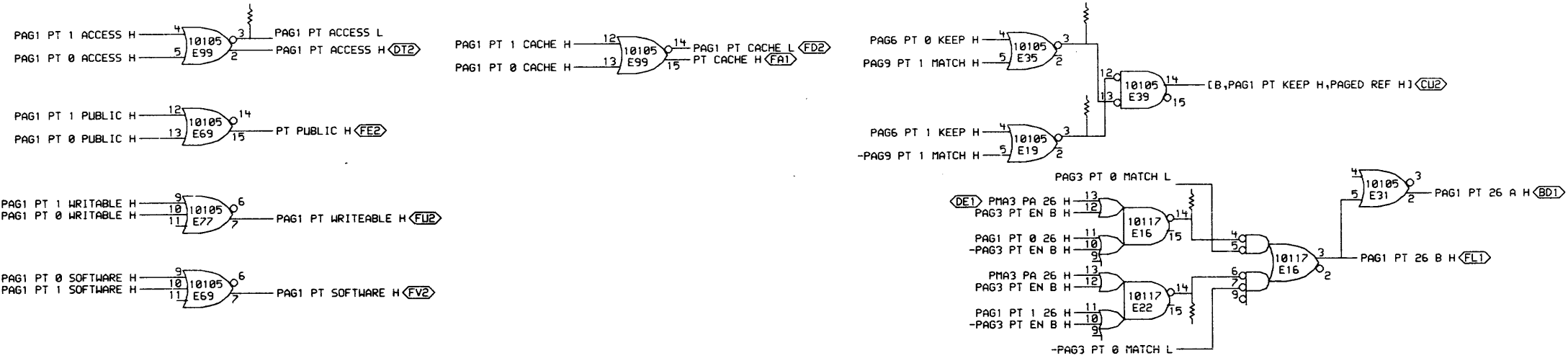
0-1 THRU 0-3 FOR ETCH CUTS REFER TO
D-EC-5017661-0-0

WIRE ADD, SIDE 1, AS SHOWN, (P/N 9105740-55)
0-4 E36-10 TO E37-10

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REVISIONS	
CHK	CHANGE NO. REV.

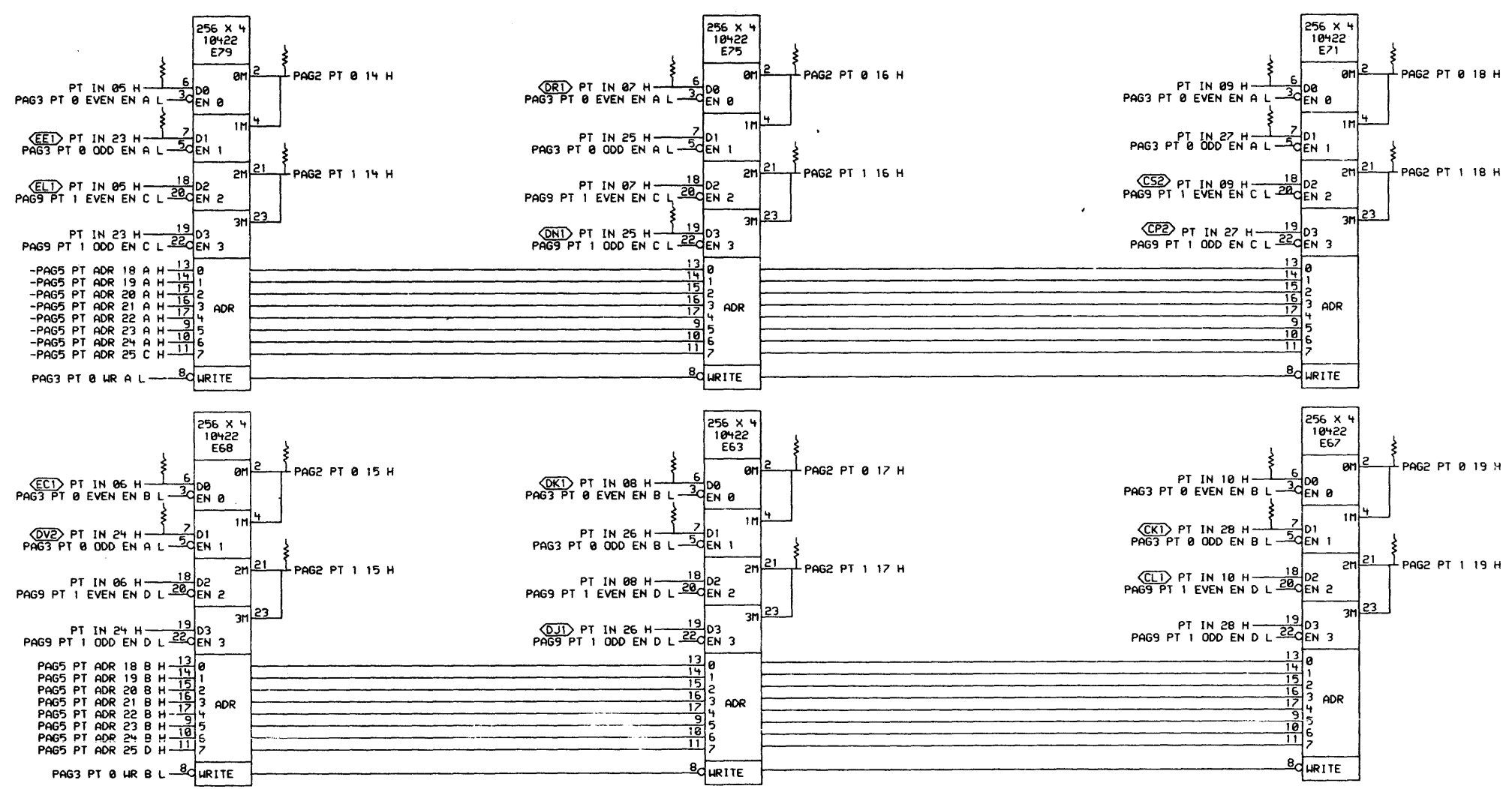
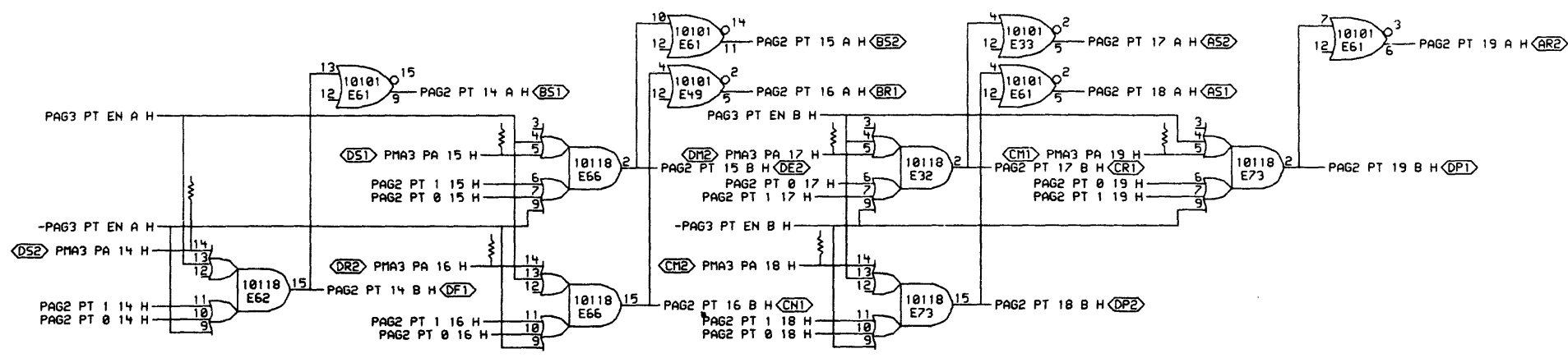
	DRN. <i>S. J. J...</i> CHK'D. <i>J. W. J...</i>	DATE <i>23-JUL-84</i> DATE <i>23-JUL-84</i>	ENG. <i>C. J...</i> BOARD LOCATION: <i>2</i> OF <i>2</i>	DATE <i>2/25/84</i> TITLE: 2 WAY ASSOCIATIVE PAGER
	FIRST USED ON OPTION/MODEL: KL10-PW	NEXT HIGHER ASSEMBLY: D-DD-M855-0	SIZE CODE: D UA	NUMBER: M855-0-0



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REVISIONS	
CHK	CHANGE NO. REV

	DRN. C. KACZOR	DATE 28-JUL-84	ENG. C. KACZOR	DATE 28-JUL-84	TITLE: PAGE TABLE DATA
	CHK'D D. DELLORCO	DATE 28-JUL-84	BOARD LOCATION: 4AF38	SHEET 1 OF 1	PT ACCESS-PT 17
XTBA-11CA25-11920-REV01PAG1EF.DWG 16-JUL-84 11:32 NEXT HIGHER ASSEMBLY:		SIZE CODE NUMBER REV.		D CS M855-0-PAG1 B	
FIRST USED ON OPTION/MODEL: MCA25		B-DD-M855-0		MRO 1	



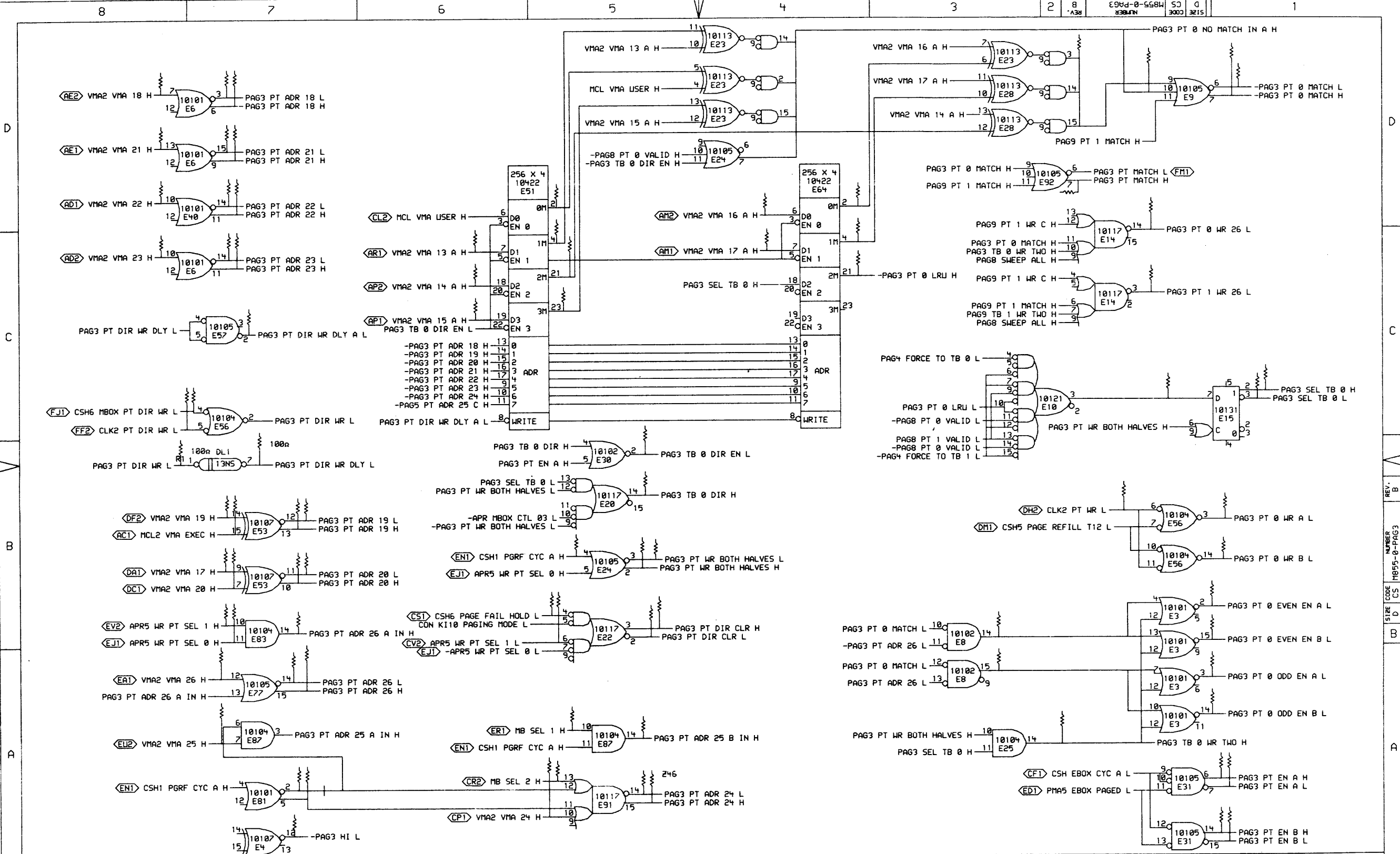
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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. C. KACZOR	DATE 10-JUL-84	ENG. C. KACZOR	DATE 10-JUL-84	TITLE: PAGE TABLE DATA
	CHK'D D. DELLORCO	DATE 10-JUL-84	BOARD LOCATION: 4AF30	OF 1	PT 16 - PT 26
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE D	CODE CS
				NUMBER M855-0-PAG2	REV. B

MRO 1	
-------	--

REV. B
NUMBER M855-0-PAG2
SIZE D
CODE CS



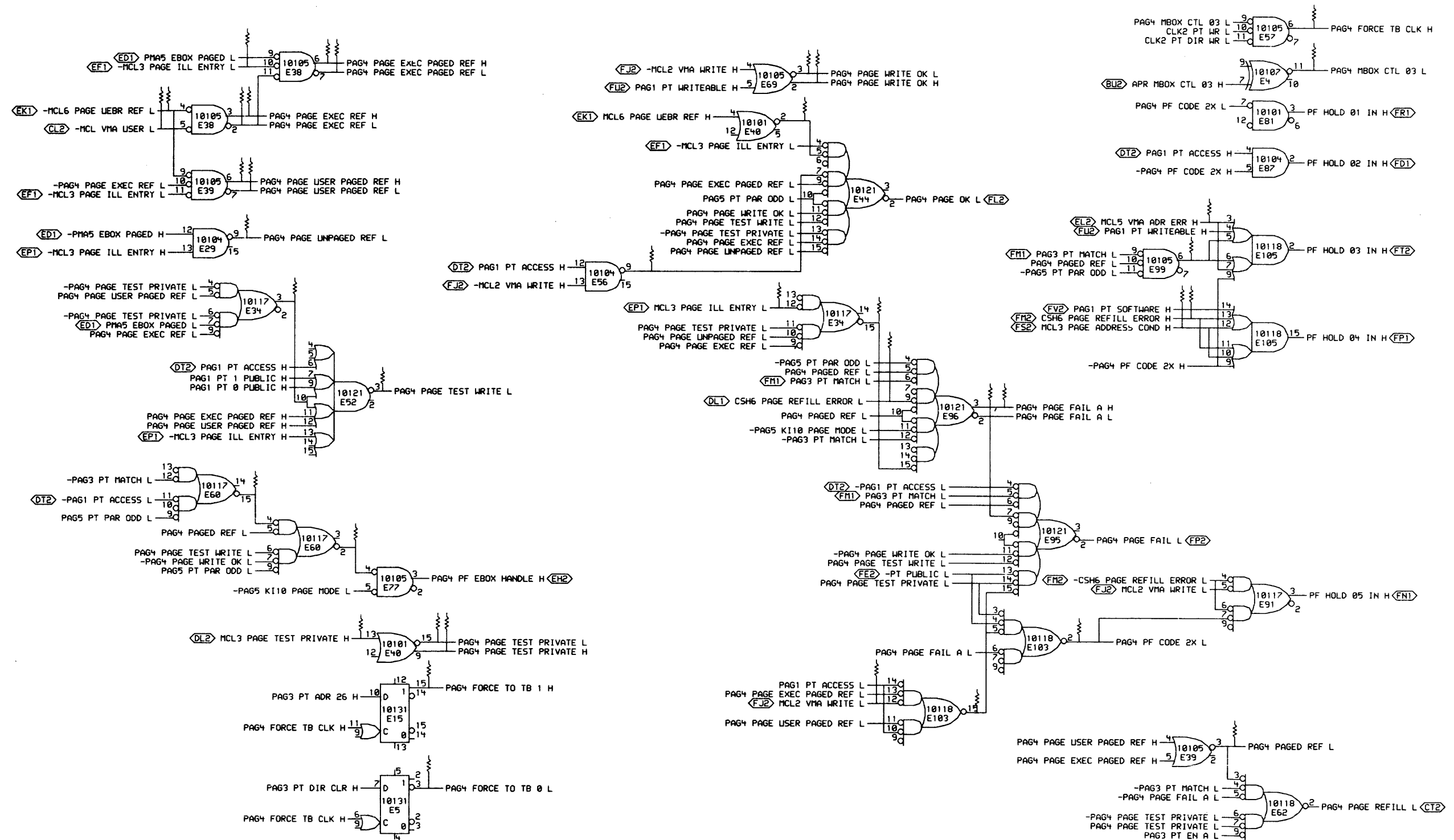
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REVISIONS	
CHK	CHANGE NO. / REV

DRN: C. KACZOR	DATE: 10-JUL-84	ENG: C. KACZOR	DATE: 10-JUL-84	TITLE: PAGE TABLE DIRECTORY
CHK'D: D. DELLORCO	DATE: 10-JUL-84	BOARD LOCATION: 4AF30	SHEET: 1 OF 1	SIZE CODE: D CS
FIRST USED ON OPTION/MODEL: MCA25				NUMBER: M855-0-PAG3
NEXT HIGHER ASSEMBLY: D-DD-M855-0				REV. B

MRO	1
-----	---

REV. B
NUMBER M855-0-PAG3
SIZE CODE CS

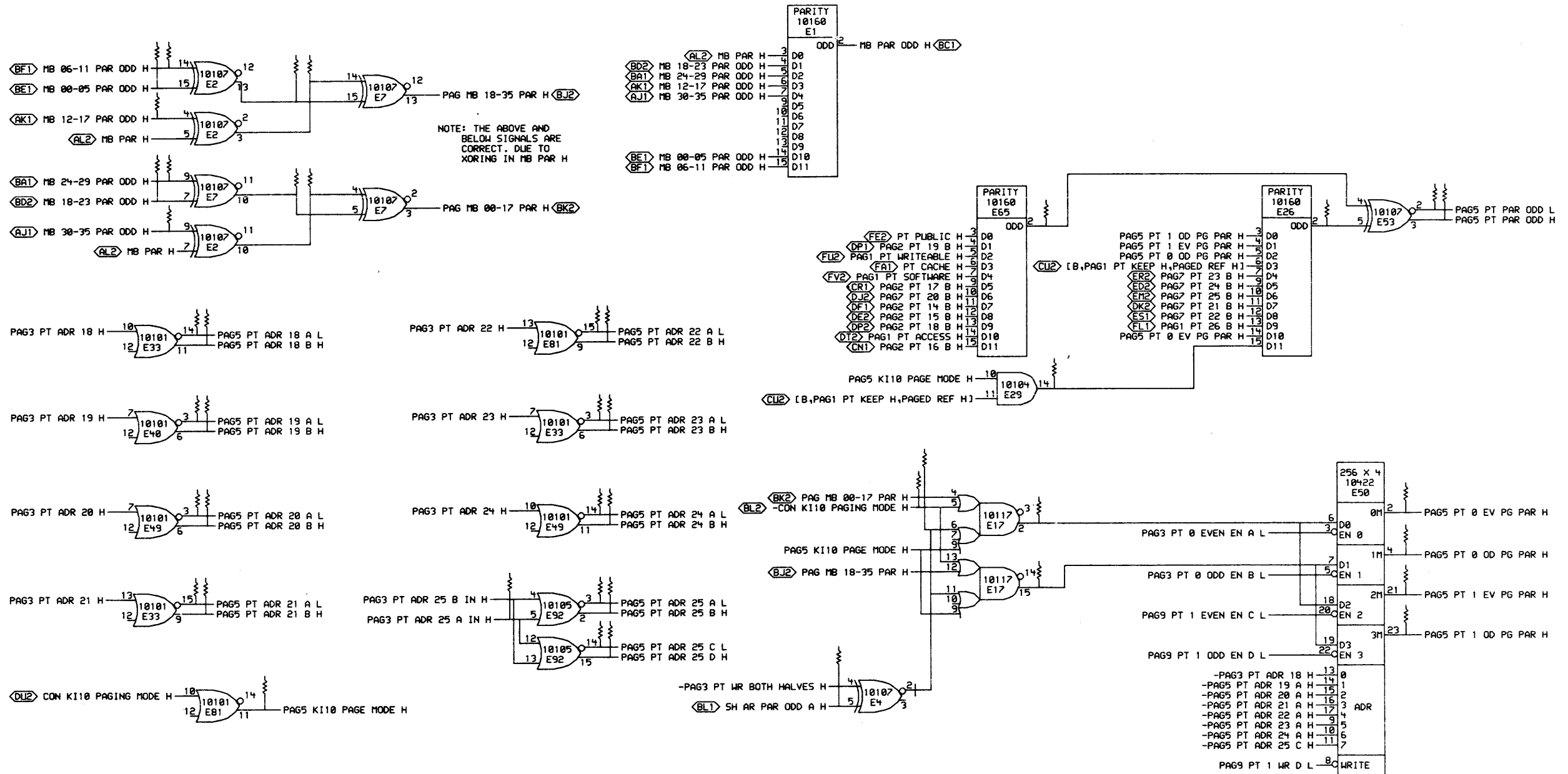


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REVISIONS	
CHK	CHANGE NO. REV

DRN. C. KACZOR	DATE 10-JUL-84	ENG. C. KACZOR	DATE 10-JUL-84	TITLE: PAGE TABLE CONTROL LOGIC
CHK'D. D. DELLORCO	DATE 10-JUL-84	BOARD LOCATION: 4AF30		

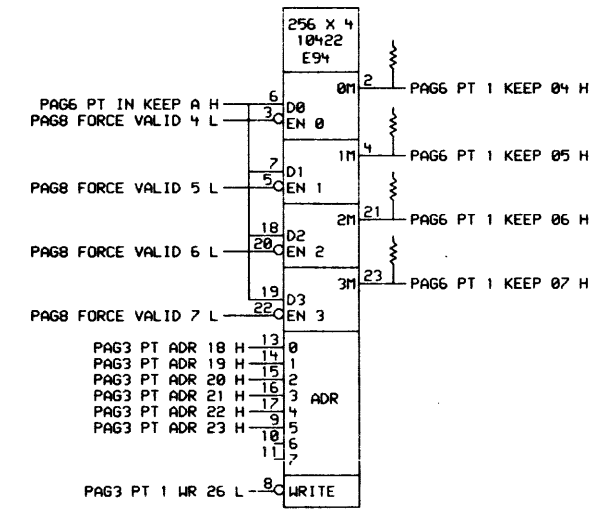
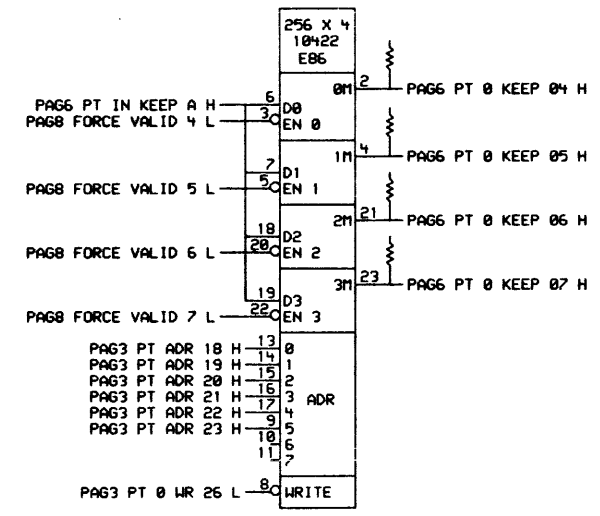
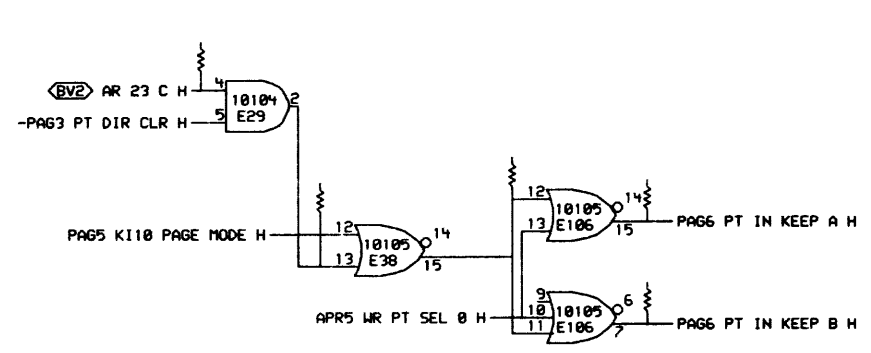
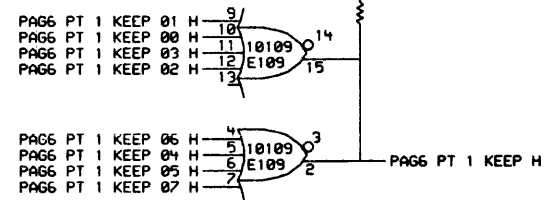
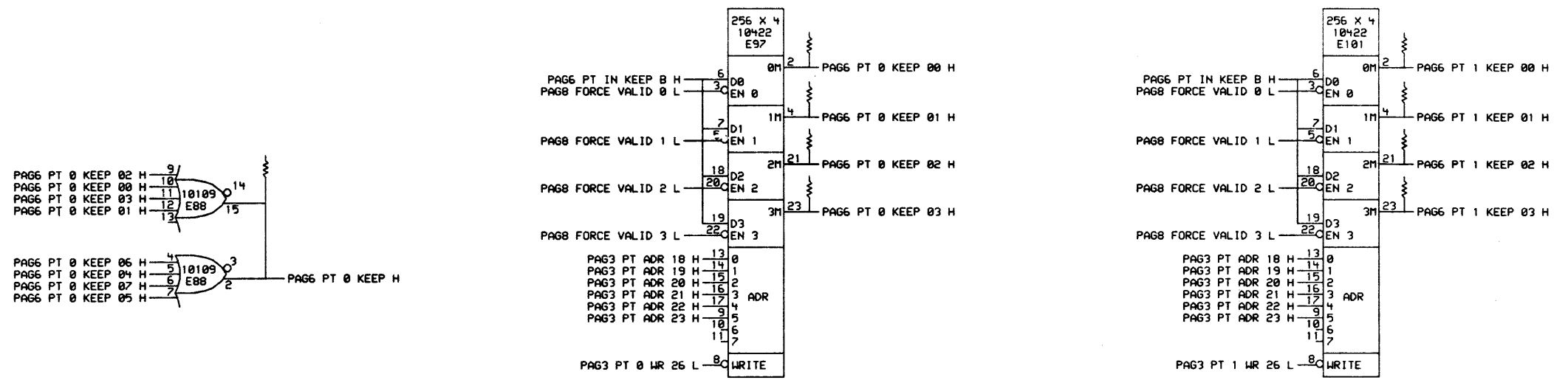
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FIRST USED ON OPTION/MODEL: MCA25		D-DD-M855-0	



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REVISIONS		
CHK	CHANGE NO.	REV

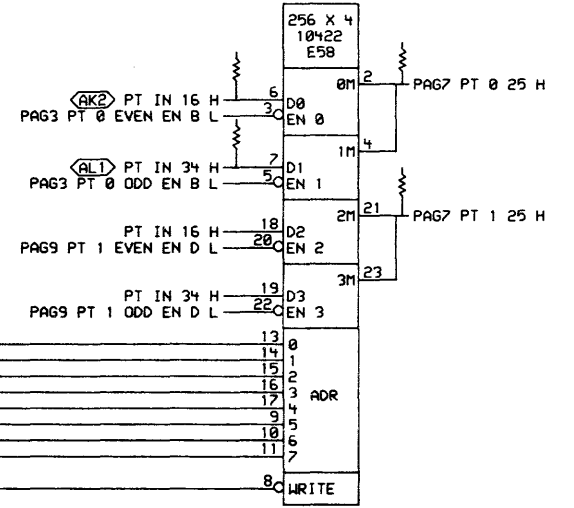
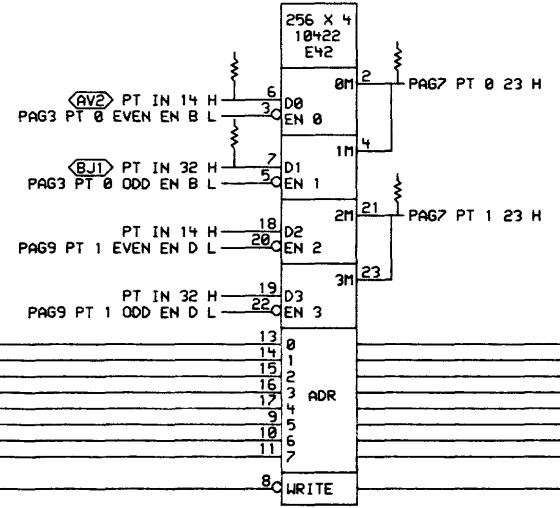
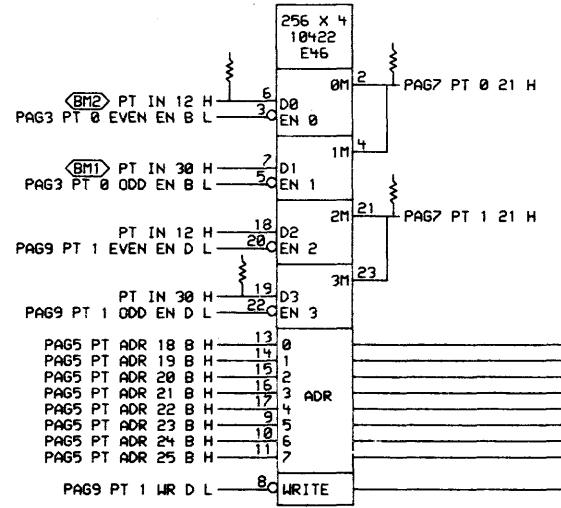
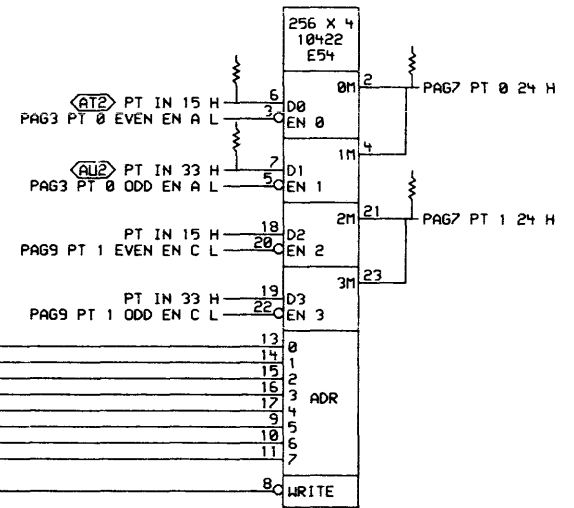
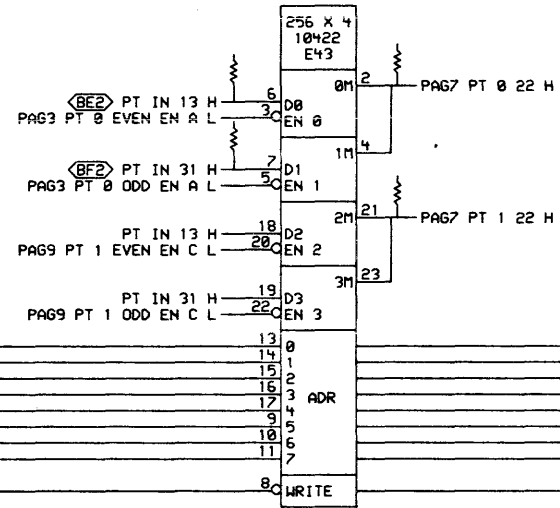
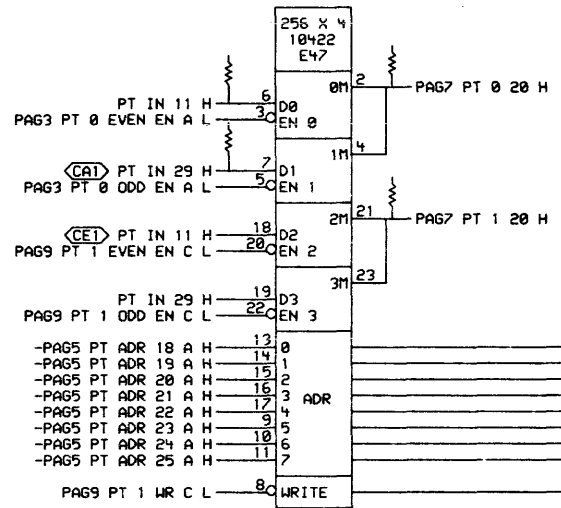
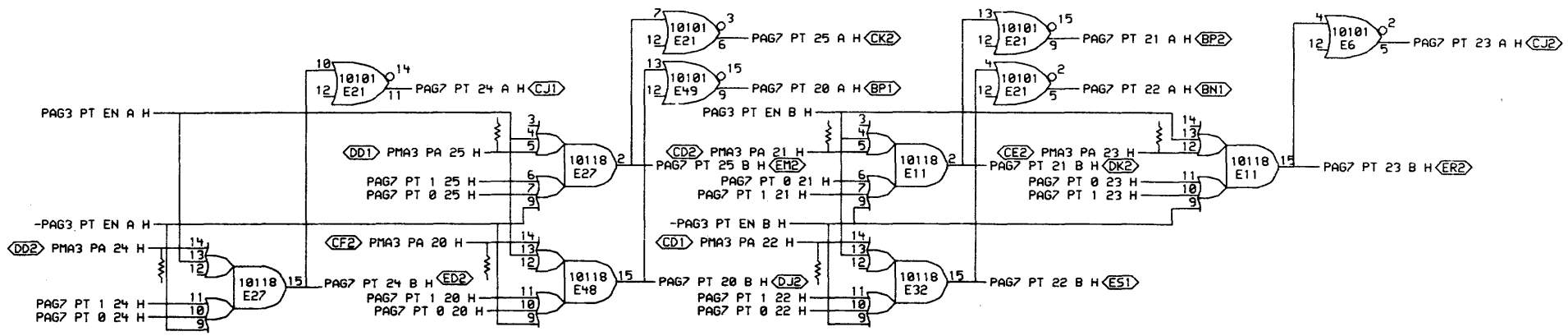
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	CHK'D D. DELLORCO	DATE 20-JUL-84	BOARD LOCATION: 4AF30	SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: B-DD-M855-0		TITLE: PAGE TABLE PARITY LOGIC
SIZE D	CODE CS	NUMBER M855-0-PAG5	REV. B	MRO 1



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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. C. KACZOR	DATE 18-JUL-84	ENG. C. KACZOR	DATE 18-JUL-84	TITLE: PAGING
	CHK'D D. DELLORCO	DATE 18-JUL-84	BOARD LOCATION: 4AF38	SHEET 1 OF 1	KEEP BIT SELECTION
FIRST USED ON OPTION/MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE D CS
NUMBER M855-0-PAGE					REV. B

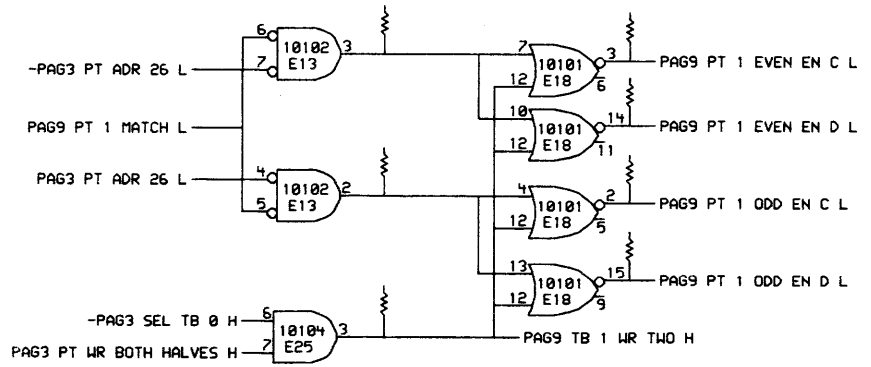
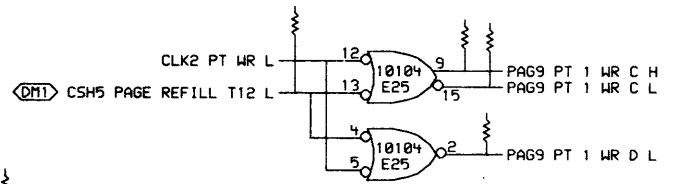
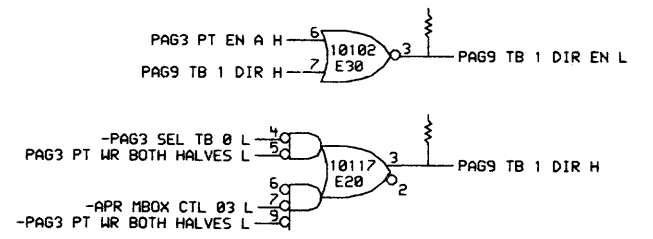
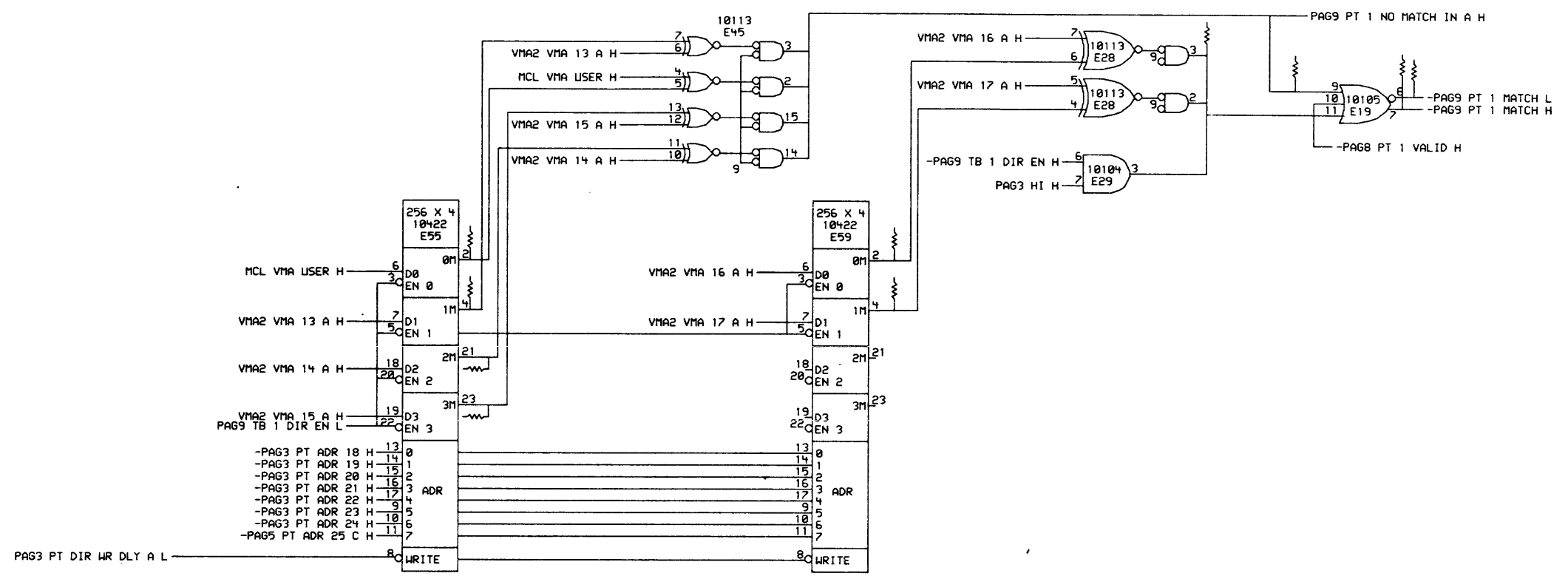


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REVISIONS	CHK	CHANGE NO.	REV

digital DRN. C. KACZOR DATE 10-JUL-84 ENG. C. KACZOR DATE 10-JUL-84
 CHK'D. D. DELLORCO DATE 10-JUL-84 BOARD LOCATION: 4AF30 SHEET 1 OF 1
 FIRST USED ON OPTION/MODEL: MCA25 D-DD-M855-0

TITLE: PAGE TABLE DATA PT 20 - 25
 SIZE CODE D CS M855-0-PAG7 NUMBER REV. B
 MRO 1



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REVISIONS	
CHK	CHANGE NO. REV.

digital	DRN. C. KACZOR	DATE 10-JUL-84	ENG. C. KACZOR	DATE 10-JUL-84
	CHK'D. D. DELLORCO	DATE 10-JUL-84	SHEET 1 OF 1	BOARD LOCATION: 4AF30
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M855-0		

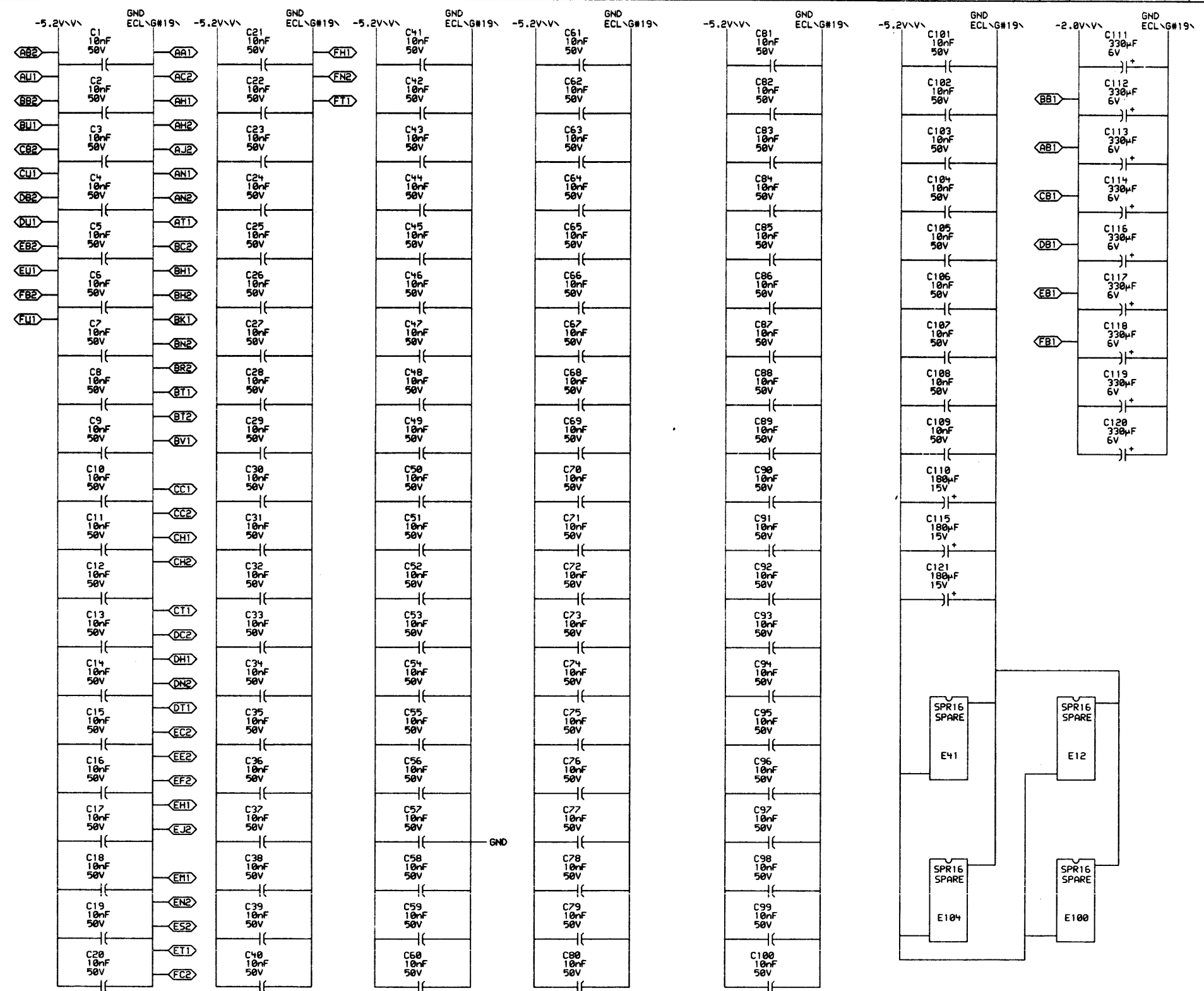
TITLE: PAGE TABLE 1 DIRECTORY			
SIZE CODE	NUMBER	REV.	
D CS	M855-0-PAG9	B	

D

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B

A



D

C

B

CS

D

A

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REVISIONS	
CHK	CHANGE NO. REV

	DRN. C. KACZOR	DATE 18-JUL-84	ENG. C. KACZOR	DATE 18-JUL-84	TITLE: PAGING BOARD POWER, GND, CAP
	CHK'D D. DELLORCO	DATE 18-JUL-84	BOARD LOCATION: 4AF30	SHEET 1 OF 1	
NEXT HIGHER ASSEMBLY: MCA25 FIRST USED ON OPTION/MODEL: MCA25			SIZE CODE NUMBER REV. D CS M855-0-PAGA B		

D

C

B

A

D

C

REV.
B

SIZE CODE NUMBER
D CS M855-0-PAGB

B

A

[B,GND ECL,
GND CLK\G#20\] — CN2

[B,NC,GND
ECL\G#19\] — AA2

[B,NC,GND
ECL\G#19\] — AV1

[B,NC,GND
ECL\G#19\] — BA2

[B,NC,GND
ECL\G#19\] — CA2

[B,NC,GND
ECL\G#19\] — CV1

[B,NC,GND
ECL\G#19\] — DA2

[B,NC,GND
ECL\G#19\] — DV1

[B,NC,GND
ECL\G#19\] — EA2

[B,NC,GND
ECL\G#19\] — EV1

[B,NC,GND
ECL\G#19\] — FA2

[B,NC,GND CLK
TIEDOWN\G#20\] — FV1

[B,GND
ECL\G#19\,NC] — EK2

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN: C. KACZOR	DATE: 10-JUL-84	ENG: C. KACZOR	DATE: 10-JUL-84	TITLE: PAGING BOARD
	CHK'D: D. DELLORCO	DATE: 10-JUL-84	BOARD LOCATION: 4AF30	SHEET: 1 OF 1	GND
FIRST USED ON OPTION/MODEL: MCA25			NEXT HIGHER ASSEMBLY: D-DD-M855-0		SIZE CODE NUMBER REV. D CS M855-0-PAGB B

RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL
Z2<5>	PAG3	A5	68n	PAG3 PT ADR 25 B IN H	Z62<10>	PAG4	B3	68n	-PAG4 PF CODE 2X H	Z1<8>	PAG6	B1	68n	PAG6 PT 1 KEEP 04 H	Z67<3>	PAG9	D1	68n	-PAG9 PT 1 MATCH H
Z67<5>	PAG3	A7	68n	PAG3 PT ADR 26 H	Z38<8>	PAG5	A7	68n	PAG5 KI10 PAGE MODE H	Z25<10>	PAG6	B1	68n	PAG6 PT 1 KEEP 05 H	Z67<6>	PAG9	D2	68n	PAG9 PT 1 NO MATCH IN A H
Z66<8>	PAG3	A7	68n	-PAG3 PT ADR 26 H	Z40<6>	PAG5	B1	68n	PAG5 PT 0 EV PG PAR H	Z1<10>	PAG6	B1	68n	PAG6 PT 1 KEEP 06 H	Z26<10>	PAG9	A3	68n	-PAG9 PT 1 ODD EN C H
Z60<1>	PAG3	B7	68n	PAG3 PT ADR 26 A IN H	Z57<1>	PAG5	B1	68n	PAG5 PT 0 OD PG PAR H	Z43<10>	PAG6	A1	68n	PAG6 PT 1 KEEP 07 H	Z18<10>	PAG9	A3	68n	-PAG9 PT 1 ODD EN D H
Z13<3>	PAG3	B5	68n	PAG3 PT DIR CLR H	Z40<10>	PAG5	B1	68n	PAG5 PT 1 EV PG PAR H	Z16<1>	PAG6	B6	68n	PAG6 PT IN KEEP A H	Z12<1>	PAG9	B2	68n	PAG9 PT 1 WR C H
Z13<10>	PAG3	B5	68n	-PAG3 PT DIR CLR H	Z40<8>	PAG5	B1	68n	PAG5 PT 1 OD PG PAR H	Z53<1>	PAG6	A6	68n	PAG6 PT IN KEEP B H	Z56<5>	PAG9	B1	68n	-PAG9 PT 1 WR C H
R2<1>	PAG3	B7	100n	-PAG3 PT DIR WR H	Z26<3>	PAG5	C7	68n	-PAG5 PT ADR 18 A H	Z49<8>	PAG7	C7	68n	PAG7 PT 0 20 H	Z56<8>	PAG9	B1	68n	-PAG9 PT 1 WR D H
R1<1>	PAG3	B7	100n	-PAG3 PT DIR WR DLY H	Z18<3>	PAG5	C7	68n	PAG5 PT ADR 18 B H	Z41<5>	PAG7	B7	68n	PAG7 PT 0 21 H	Z11<8>	PAG9	B7	68n	PAG9 TB 1 DIR H
Z29<6>	PAG3	C7	68n	-PAG3 PT DIR WR DLY A H	Z54<5>	PAG5	B7	68n	-PAG5 PT ADR 19 A H	Z32<5>	PAG7	C4	68n	PAG7 PT 0 22 H	Z20<5>	PAG9	B7	68n	-PAG9 TB 1 DIR EN H
Z6<8>	PAG3	A1	68n	PAG3 PT EN A H	Z28<6>	PAG5	B7	68n	PAG5 PT ADR 19 B H	Z41<1>	PAG7	B4	68n	PAG7 PT 0 23 H	Z67<8>	PAG9	A4	68n	PAG9 TB 1 WR TWO H
Z65<5>	PAG3	A1	68n	-PAG3 PT EN A H	Z26<5>	PAG5	B7	68n	-PAG5 PT ADR 20 A H	Z32<3>	PAG7	C1	68n	PAG7 PT 0 24 H	Z7<10>	PAG2	D7	68n	PMA3 PA 14 H
Z45<6>	PAG3	A1	68n	PAG3 PT EN B H	Z28<8>	PAG5	B7	68n	PAG5 PT ADR 20 B H	Z32<6>	PAG7	B2	68n	PAG7 PT 0 25 H	Z6<10>	PAG2	D5	68n	PMA3 PA 15 H
Z50<6>	PAG3	A1	68n	-PAG3 PT EN B H	Z54<6>	PAG5	B7	68n	-PAG5 PT ADR 21 A H	Z23<8>	PAG7	C7	68n	PAG7 PT 1 20 H	Z6<5>	PAG2	D5	68n	PMA3 PA 16 H
Z7<5>	PAG3	D2	68n	PAG3 PT MATCH H	Z18<5>	PAG5	B7	68n	PAG5 PT ADR 21 B H	Z41<6>	PAG7	A7	68n	PAG7 PT 1 21 H	Z34<10>	PAG2	D4	68n	PMA3 PA 17 H
Z31<1>	PAG3	B5	68n	PAG3 PT WR BOTH HALVES H	Z46<5>	PAG5	C5	68n	-PAG5 PT ADR 22 A H	Z35<8>	PAG7	C4	68n	PAG7 PT 1 22 H	Z45<3>	PAG2	D4	68n	PMA3 PA 18 H
Z5<1>	PAG3	B5	68n	-PAG3 PT WR BOTH HALVES H	Z34<8>	PAG5	C5	68n	PAG5 PT ADR 22 B H	Z42<8>	PAG7	A4	68n	PAG7 PT 1 23 H	Z45<8>	PAG2	D3	68n	PMA3 PA 19 H
Z20<10>	PAG3	C1	68n	PAG3 SEL TB 0 H	Z16<10>	PAG5	B5	68n	-PAG5 PT ADR 23 A H	Z37<8>	PAG7	C1	68n	PAG7 PT 1 24 H	Z9<8>	PAG7	D5	68n	PMA3 PA 20 H
Z29<3>	PAG3	C1	68n	-PAG3 SEL TB 0 H	Z62<6>	PAG5	B5	68n	PAG5 PT ADR 23 B H	Z34<6>	PAG7	A2	68n	PAG7 PT 1 25 H	Z41<3>	PAG7	D4	68n	PMA3 PA 21 H
Z29<5>	PAG3	B5	68n	PAG3 TB 0 DIR H	Z26<8>	PAG5	B5	68n	-PAG5 PT ADR 24 A H	Z4<6>	PAG8	D4	68n	PAG8 CLR VALID H	Z34<5>	PAG7	D4	68n	PMA3 PA 22 H
Z64<3>	PAG3	B5	68n	-PAG3 TB 0 DIR EN H	Z5<3>	PAG5	B5	68n	PAG5 PT ADR 24 B H	Z24<5>	PAG8	D6	68n	-PAG8 FORCE VALID 0 H	Z42<10>	PAG7	D3	68n	PMA3 PA 23 H
Z66<3>	PAG3	A2	68n	PAG3 TB 0 WR TWO H	Z22<8>	PAG5	B5	68n	-PAG5 PT ADR 25 A H	Z53<3>	PAG8	D6	68n	-PAG8 FORCE VALID 1 H	Z37<6>	PAG7	D6	68n	PMA3 PA 24 H
Z33<1>	PAG4	D1	68n	PAG4 FORCE TB CLK H	Z57<6>	PAG5	B5	68n	PAG5 PT ADR 25 B H	Z24<1>	PAG8	C6	68n	-PAG8 FORCE VAL'D 2 H	Z37<10>	PAG7	D5	68n	PMA3 PA 25 H
Z33<8>	PAG4	A6	68n	-PAG4 FORCE TO TB 0 H	Z64<6>	PAG5	A5	68n	-PAG5 PT ADR 25 C H	Z52<6>	PAG8	C6	68n	-PAG8 FORCE VALID 3 H	Z26<6>	PAG1	C8	68n	PT IN 00 H
Z33<3>	PAG4	A6	68n	PAG4 FORCE TO TB 1 H	Z22<3>	PAG5	A5	68n	PAG5 PT ADR 25 D H	Z15<6>	PAG8	B6	68n	-PAG8 FORCE VALID 4 H	Z18<1>	PAG1	B8	68n	PT IN 01 H
Z20<1>	PAG4	D1	68n	-PAG4 MBOX CTL 03 H	Z21<10>	PAG5	C1	68n	PAG5 PT PAR ODD H	Z15<5>	PAG8	B6	68n	-PAG8 FORCE VALID 5 H	Z26<1>	PAG1	C6	68n	PT IN 02 H
Z68<5>	PAG4	D7	68n	PAG4 PAGE EXEC PAGED REF H	Z49<3>	PAG5	C1	68n	-PAG5 PT PAR ODD H	Z15<1>	PAG8	B6	68n	-PAG8 FORCE VALID 6 H	Z18<6>	PAG1	B6	68n	PT IN 03 H
Z25<3>	PAG4	D7	68n	-PAG4 PAGE EXEC PAGED REF H	Z29<10>	PAG6	D6	68n	PAG6 PT 0 KEEP H	Z14<3>	PAG8	A6	68n	-PAG8 FORCE VALID 7 H	Z28<10>	PAG1	C4	68n	PT IN 04 H
Z48<3>	PAG4	D7	68n	PAG4 PAGE EXEC REF H	Z44<1>	PAG6	D4	68n	PAG6 PT 0 KEEP 00 H	Z33<5>	PAG8	D2	68n	PAG8 PT 0 VALID H	Z55<8>	PAG2	C7	68n	PT IN 05 H
Z9<1>	PAG4	D7	68n	-PAG4 PAGE EXEC REF H	Z3<5>	PAG6	D4	68n	PAG6 PT 0 KEEP 01 H	Z71<3>	PAG8	D2	68n	-PAG8 PT 0 VALID H	Z64<10>	PAG2	B7	68n	PT IN 06 H
Z6<1>	PAG4	C3	68n	PAG4 PAGE FAIL A H	Z44<3>	PAG6	D4	68n	PAG6 PT 0 KEEP 02 H	Z11<1>	PAG8	D4	68n	PAG8 PT 0 VALID A H	Z55<6>	PAG2	C5	68n	PT IN 07 H
Z25<6>	PAG4	C3	68n	-PAG4 PAGE FAIL A H	Z3<1>	PAG6	C4	68n	PAG6 PT 0 KEEP 03 H	Z12<10>	PAG8	B4	68n	PAG8 PT 0 VALID B H	Z28<1>	PAG2	B5	68n	PT IN 08 H
Z65<3>	PAG4	B6	68n	PAG4 PAGE TEST PRIVATE H	Z3<10>	PAG6	B4	68n	PAG6 PT 0 KEEP 04 H	Z33<6>	PAG8	D2	68n	-PAG8 PT 1 VALID H	Z55<5>	PAG2	C2	68n	PT IN 09 H
Z25<5>	PAG4	B6	68n	-PAG4 PAGE TEST PRIVATE H	Z44<5>	PAG6	B4	68n	PAG6 PT 0 KEEP 05 H	Z24<8>	PAG8	D1	68n	PAG8 PT 1 VALID A H	Z55<1>	PAG2	B2	68n	PT IN 10 H
Z59<1>	PAG4	C6	68n	-PAG4 PAGE TEST WRITE H	Z3<8>	PAG6	B4	68n	PAG6 PT 0 KEEP 06 H	Z52<10>	PAG8	B1	68n	PAG8 PT 1 VALID B H	Z22<10>	PAG7	C7	68n	PT IN 11 H
Z9<3>	PAG4	C7	68n	-PAG4 PAGE UNPAGED REF H	Z44<6>	PAG6	A4	68n	PAG6 PT 0 KEEP 07 H	Z60<10>	PAG8	A6	68n	-PAG8 PT DIR CLR A H	Z57<10>	PAG7	B7	68n	PT IN 12 H
Z8<3>	PAG4	D7	68n	PAG4 PAGE USER PAGED REF H	Z12<6>	PAG6	C6	68n	PAG6 PT 1 KEEP H	Z25<8>	PAG8	A6	68n	-PAG8 PT DIR CLR B H	Z22<5>	PAG7	C5	68n	PT IN 13 H
Z25<1>	PAG4	D7	68n	-PAG4 PAGE USER PAGED REF H	Z43<8>	PAG6	D1	68n	PAG6 PT 1 KEEP 00 H	Z67<1>	PAG8	A6	68n	PAG8 SWEEP ALL H	Z57<8>	PAG7	B5	68n	PT IN 14 H
Z59<5>	PAG4	D4	68n	PAG4 PAGE WRITE OK H	Z43<6>	PAG6	D1	68n	PAG6 PT 1 KEEP 01 H	Z54<10>	PAG9	A3	68n	-PAG9 PT 1 EVEN EN C H	Z56<3>	PAG7	C2	68n	PT IN 15 H
Z49<1>	PAG4	D4	68n	-PAG4 PAGE WRITE OK H	Z1<6>	PAG6	D1	68n	PAG6 PT 1 KEEP 02 H	Z18<8>	PAG9	A3	68n	-PAG9 PT 1 EVEN EN D H	Z30<6>	PAG7	B2	68n	PT IN 16 H
Z52<1>	PAG4	A2	68n	-PAG4 PAGED REF H	Z43<5>	PAG6	C1	68n	PAG6 PT 1 KEEP 03 H	Z2<1>	PAG9	D1	68n	PAG9 PT 1 MATCH H	Z22<1>	PAG1	B3	68n	PT IN 17 H

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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	CHK	CHANGE NO.				
			06-AUG-84	C. KACZOR	06-AUG-84	ETCH PAGER TERMINATORS
			06-AUG-84	D. DELLORCO	06-AUG-84	4AF30
			SHEET 2 OF 3		NEXT HIGHER ASSEMBLY:	
			FIRST USED ON OPTION MODEL: MCA25		D-DD-M855-0	
			SIZE	CODE	NUMBER	REV.
			D	CS	M855-0-RES	B

RESISTOR LOC(PIN)	SHOWN ON DRW#	ON REF	VALUE	TERMINATES SIGNAL
254(8)	PAG1	C8	68n	PT IN 18 H
250(1)	PAG1	A8	68n	PT IN 19 H
254(3)	PAG1	C6	68n	PT IN 20 H
262(1)	PAG1	A6	68n	PT IN 21 H
254(1)	PAG1	C4	68n	PT IN 22 H
255(10)	PAG2	C7	68n	PT IN 23 H
264(8)	PAG2	A7	68n	PT IN 24 H
228(5)	PAG2	B5	68n	PT IN 25 H
256(10)	PAG2	A5	68n	PT IN 26 H
255(3)	PAG2	C2	68n	PT IN 27 H
228(3)	PAG2	A2	68n	PT IN 28 H
270(1)	PAG7	C7	68n	PT IN 29 H
230(1)	PAG7	A7	68n	PT IN 30 H
222(6)	PAG7	C5	68n	PT IN 31 H
232(10)	PAG7	B5	68n	PT IN 32 H
230(5)	PAG7	C2	68n	PT IN 33 H
256(6)	PAG7	B2	68n	PT IN 34 H
246(3)	PAG1	A3	68n	PT IN 35 H
213(5)	PAG5	A4	68n	SH AR PAR ODD A H
220(3)	PAG3	C6	68n	VMA2 VMA 13 A H
270(10)	PAG3	C6	68n	VMA2 VMA 14 A H
270(8)	PAG3	C6	68n	VMA2 VMA 15 A H
219(3)	PAG3	D4	68n	VMA2 VMA 16 A H
270(3)	PAG3	B7	68n	VMA2 VMA 17 H
219(5)	PAG3	C4	68n	VMA2 VMA 17 A H
242(6)	PAG3	D8	68n	VMA2 VMA 18 H
269(1)	PAG3	B7	68n	VMA2 VMA 19 H
270(6)	PAG3	B7	68n	VMA2 VMA 20 H
242(5)	PAG3	D8	68n	VMA2 VMA 21 H
236(8)	PAG3	D8	68n	VMA2 VMA 22 H
242(3)	PAG3	C8	68n	VMA2 VMA 23 H
251(10)	PAG3	A5	68n	VMA2 VMA 24 H
251(6)	PAG3	A7	68n	VMA2 VMA 25 H
261(1)	PAG3	A7	68n	VMA2 VMA 26 H

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

D
C
B
A

D
C
B
A

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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE 06-AUG-84	ENG. C. KACZOR	DATE 06-AUG-84	TITLE: ETCH PAGER TERMINATORS
	CHK'D D. DELLORCO	DATE 06-AUG-84	BOARD LOCATION: 4AF30	
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M855-0		

SIZE CODE	NUMBER	REV.
D CS	M855-0-RES	B

DRAWING NUMBER	NO. OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M856-00	MODULE REVISION	A1
E-UA-M856-0-0	2		CHD	A
K-PL-M856-0-DBP	2		PART LIST, M856	A
D-CS-M856-0-CHD1	1		CACHE DATA BITS [N+00],[N+01]	A
D-CS-M856-0-CHD2	1		CACHE DATA BITS [N+02],[N+03]	A
D-CS-M856-0-CHD3	1		CACHE DATA BITS [N+04],[N+05]	A
D-CS-M856-0-CHD4	1		CACHE DATA BITS [N+06],[N+07]	A
D-CS-M856-0-CHD5	1		CACHE DATA BIT [N+08]	A
D-CS-M856-0-CHD6	1		CACHE DATA ADDRESSING LOGIC	A
D-CS-M856-0-CHD7	1		CACHE SEL LOGIC TERMINATORS	A
D-CS-M856-0-CHD8	1		CACHE DATA TERMINATORS	A
D-CS-M856-0-RES	1		CACHE DATA TERMINATORS	A
D-CS-M856-0-RES	1		CACHE DATA TERMINATORS	A
K-PC-M856-0-DBI	-		P.C. DESIGN DATA BASE TAPE	A
D-DD-5017662-0	1		DRAWING DIRECTORY, 5017662	REF

D
C
B
A

D
C
B
A

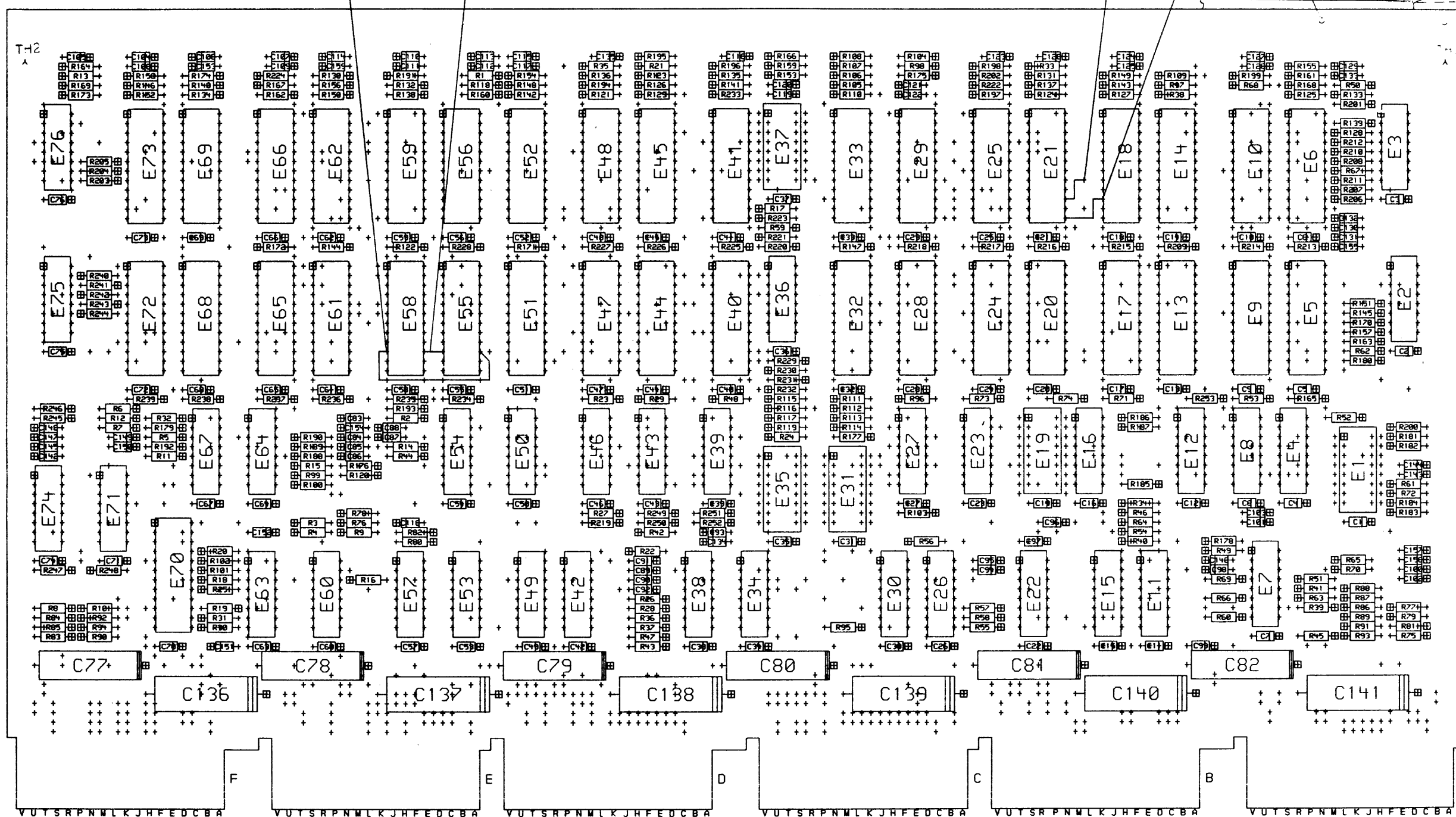
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REVISIONS		
CHK	CHANGE NO.	REV

	DSK: M856A.T2P[4,21]	DATE: 13-SEP-84 14:24	ENG: C.A. JENS	DATE: 13-SEP-84	TITLE: M856
	CHK'D: D. DELLORCO	DATE: 13-SEP-84	BOARD LOCATION: N/A	SHEET: 1 OF 1	DRAWING DIRECTORY
FIRST USED ON OPTION/MODEL: KL10-PW			MCA25	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER REV. D DD M856-0 A

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COMPONENT SIDE VIEW



NOTES: SPARE PARTS ARE: E1, E19, E31, E35, E37.

STEP E + Y AXIS 0 STEP 0 TIMES
 REPEAT + X AXIS 0 STEP 0 TIMES

CHK	CHANGE NO	REV

ETCH REV. A1

SIGNATURES	DATE	digital
DRN. D. E. OLSON	11/24/84	
CHK. D. [Signature]	11/24/84	TITLE
MECH. ENG.		CHD
PROJ. ENG.		SIZE/CODE
PROD. [Signature]	11/24/84	NUMBER
SCALE 2/1		D UVA M856-0-0
SHT. 1 OF 2		REV
TOP LOC. D-DD-M856-0		A

REWORK INSTRUCTIONS

FIRST RELEASE

0-1 THRU 0-4 FOR ETCH CUTS REFER TO
D-EC-5017662-0-0

WIRE ADDS, SIDE 1, AS SHOWN (P/N 9105740-55)
 0-5 E21<13> TO E10<10>
 0-6 E21<15> TO PTH RIGHT OF E21<17>
 0-7 E58<15> TO E55<10>
 0-8 E58<10> TO E55<15>

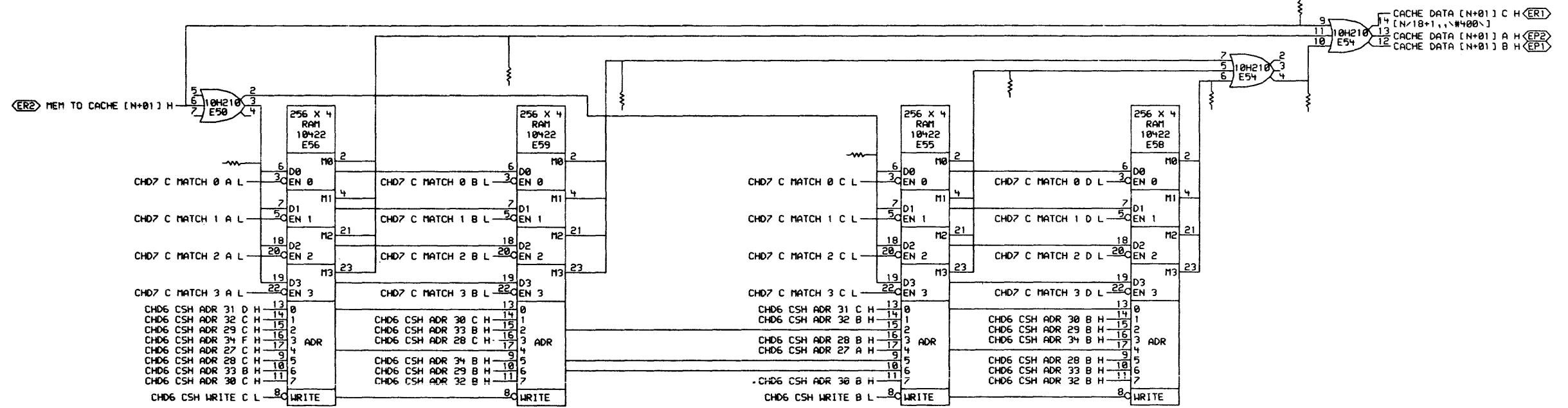
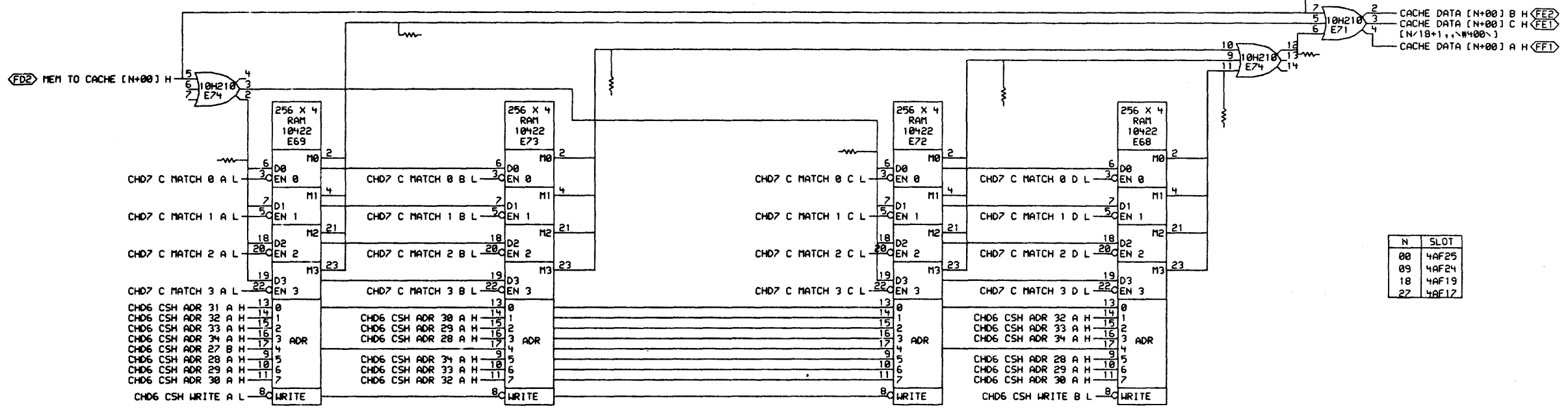
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REVISIONS	
CHK	CHANGE NO. REV

digital DRG. *J. J. J.* DATE 02-MAY-84 ENG. *Carly* DATE 13-SEP-84
 CHK'D. *W. W. W.* DATE 13-SEP-84 BOARD LOCATION: 2 DE 2
 DSK1066A.T2P14.35 02-MAY-84 22:44 NEXT HIGHER ASSEMBLY: D-DD-M856-0

TITLE: CHD			REV. A
SIZE CODE	NUMBER	REV.	
D UA	M856-0-0	A	

REV. A
 NUMBER M856-0-0
 SIZE CODE D UA
 B

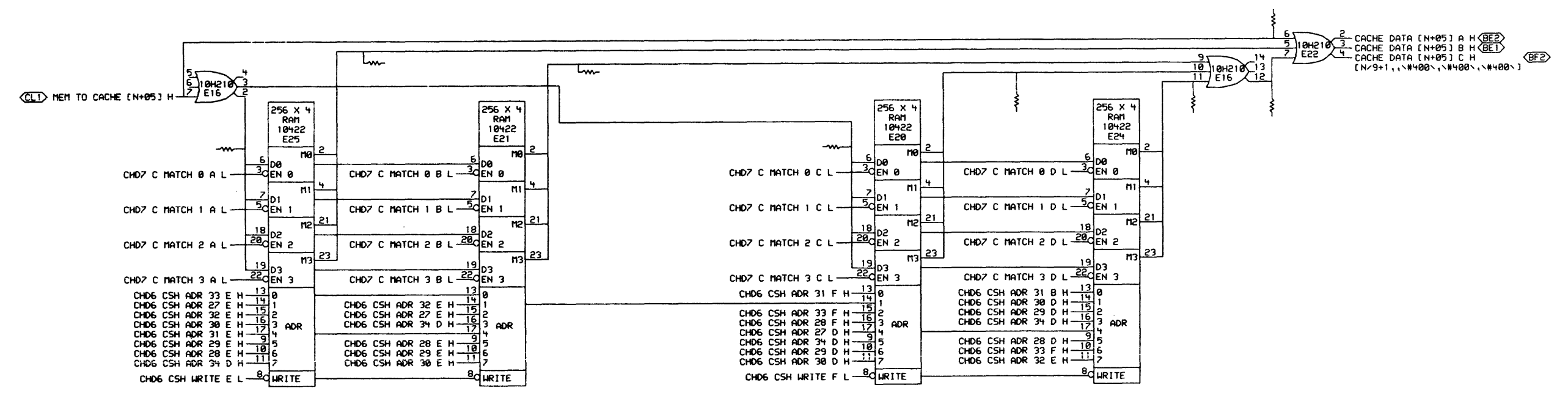
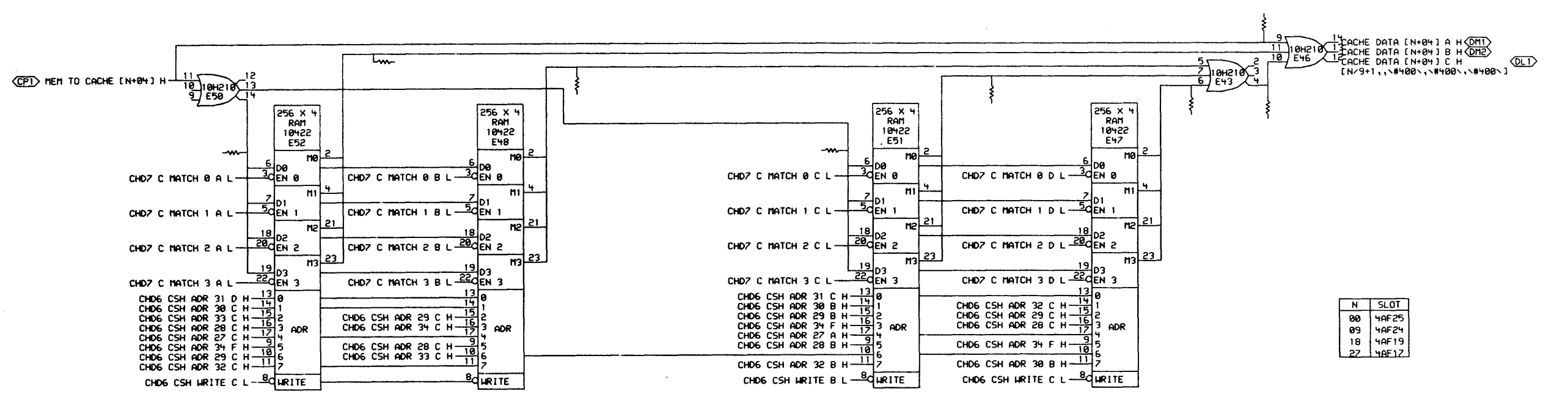


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REVISIONS		
CHK	CHANGE NO.	REV

DATE	ENG.	DATE	TITLE:
06-AUG-84	C. A. JENS	06-AUG-84	CACHE DATA BITS
DATE	BOARD LOCATION:	DATE	[N+00],[N+01]
06-AUG-84	SHEET	06-AUG-84	
XTRA: (MCA25.M8561.REV8)PCHDA.DRW		23-JUL-84 14:09	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MCA25		D-DD-M856-0	

SIZE	CODE	NUMBER	REV.
D	CS	M856-0-CHD1	A

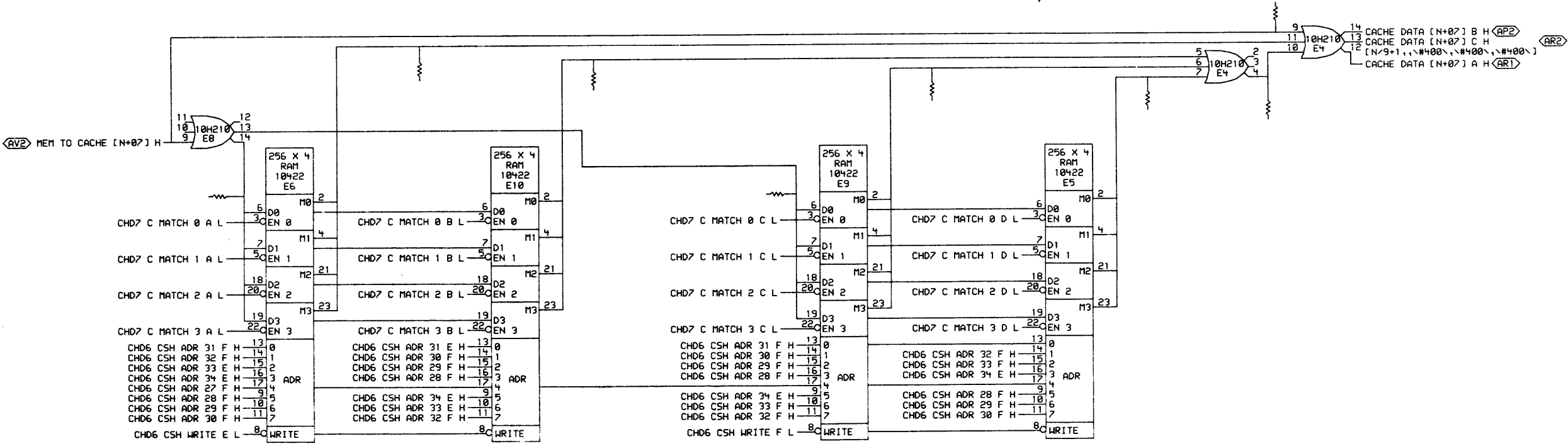
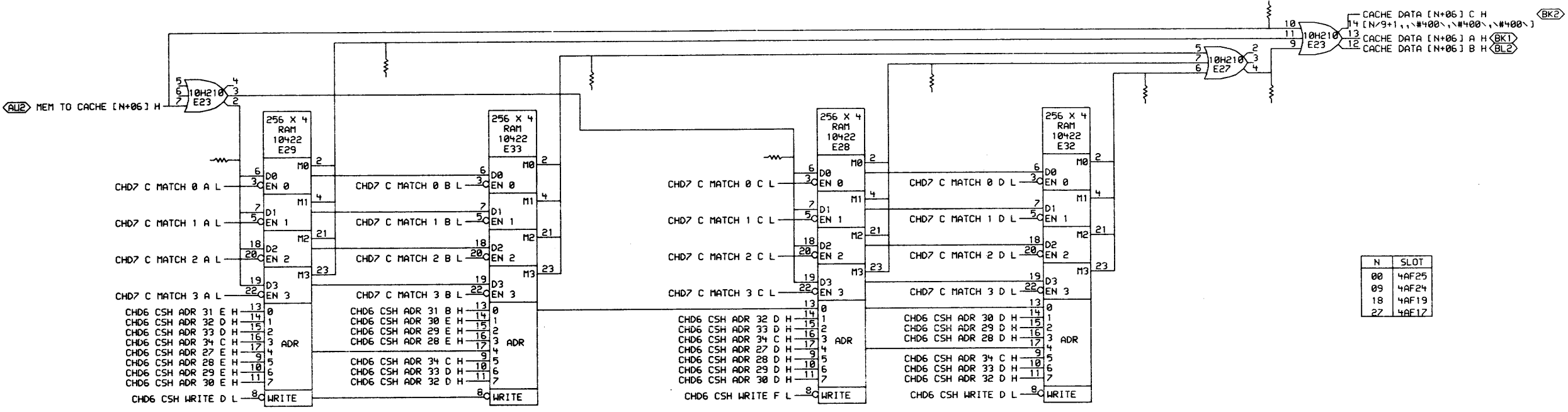


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REVISIONS		
CHK	CHANGE NO.	REV.

digital *D. Dellorco*
 DATE 06-AUG-84 ENG. C. A. JENS
 DATE 06-AUG-84 BOARD LOCATION:
 D. DELLORCO SHEET 1 OF 1
 XTRA: MCA25.NP21.REV8.PCHD3.DRW 23-JUL-84 14:10 NEXT HIGHER ASSEMBLY:
 FIRST USED ON OPTION MODEL: MCA25 D-DD-M856-0

TITLE: CACHE DATA BITS [N+04], [N+05]
 NUMBER M856-0-CHD3
 REV. A
 SIZE CODE CS
 MRO 1

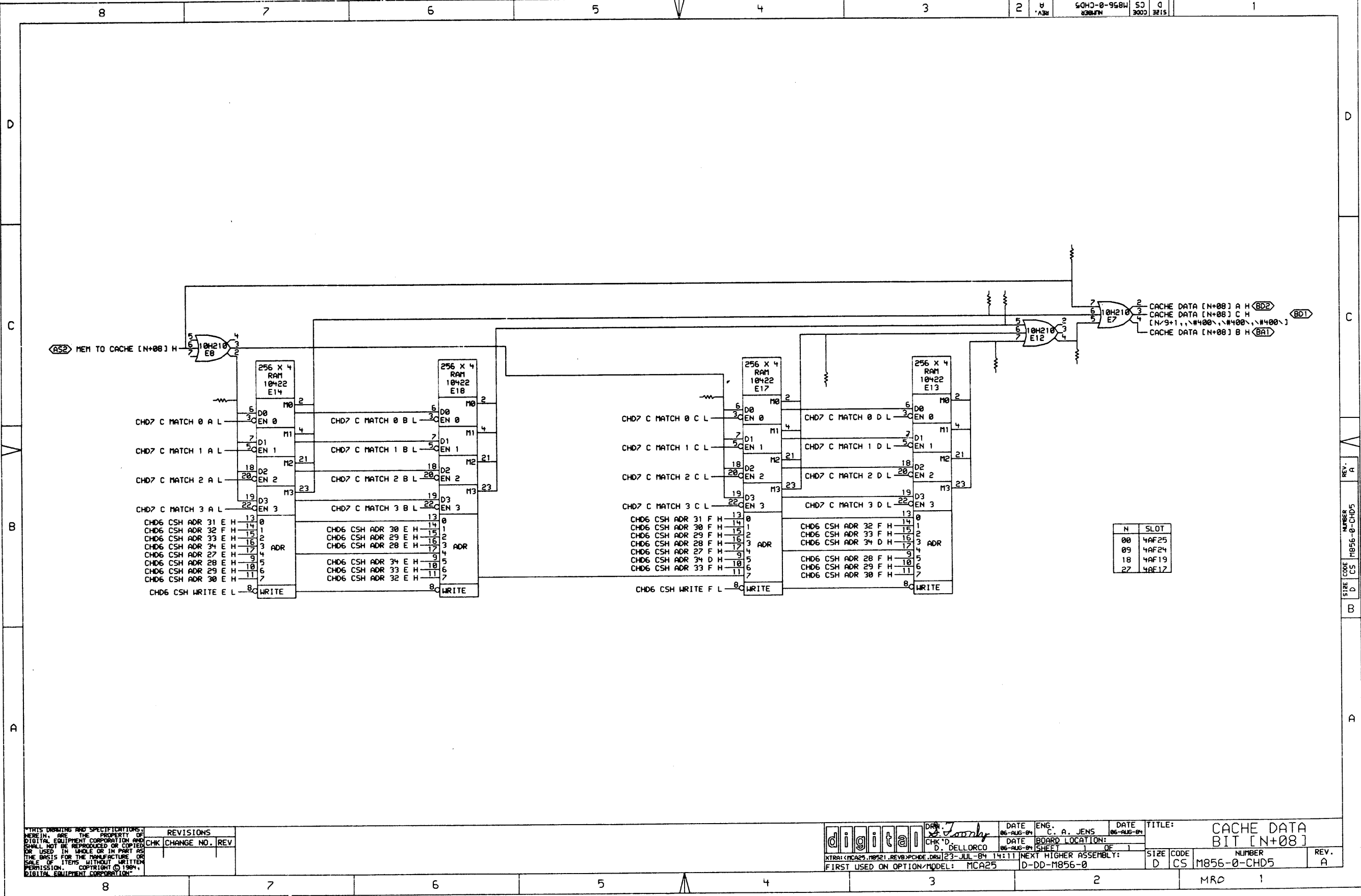


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REVISIONS	
CHK	CHANGE NO. REV

digital DRN. *J. Jambly* DATE 06-AUG-84 ENG. C. A. JENS DATE 06-AUG-84
 CHK'D D. DELLORCO DATE 06-AUG-84 BOARD LOCATION: SHEET 1 OF 1
 EXTRA: MCA25, M8521, REV8, PCHDD, DRN [23-JUL-84 14:11] NEXT HIGHER ASSEMBLY: D-DD-M856-0

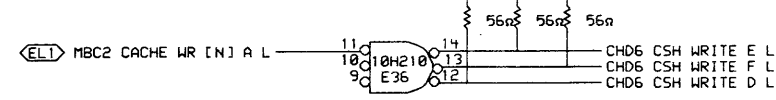
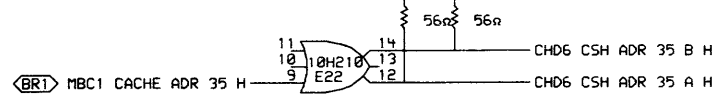
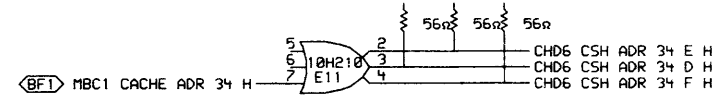
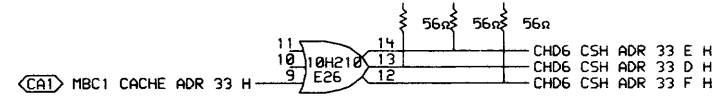
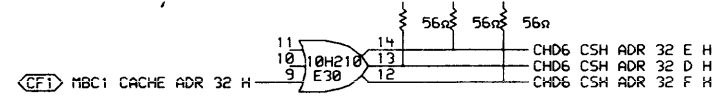
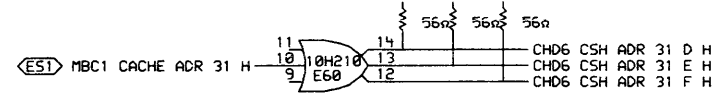
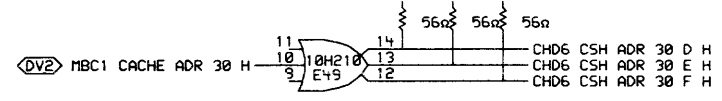
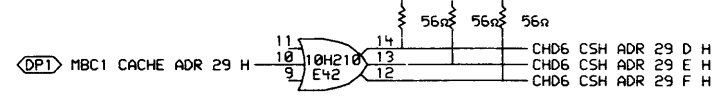
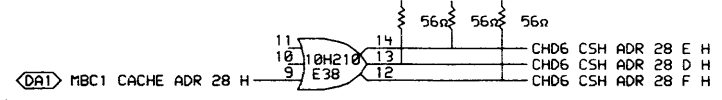
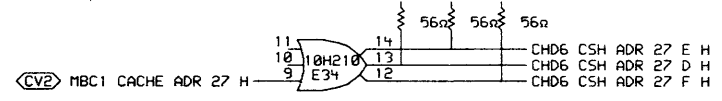
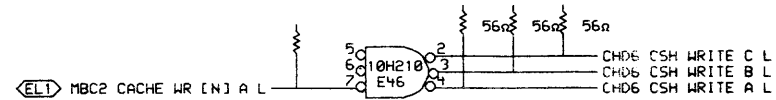
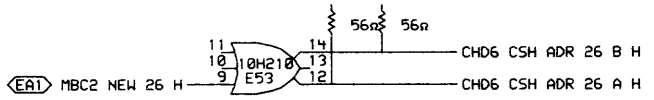
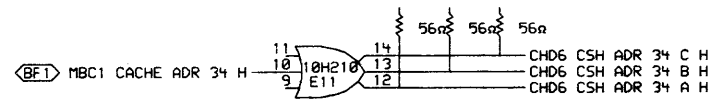
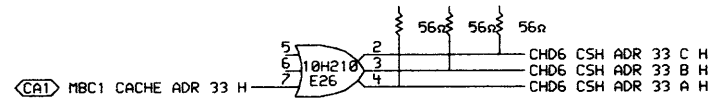
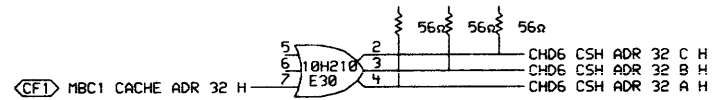
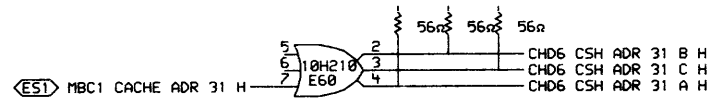
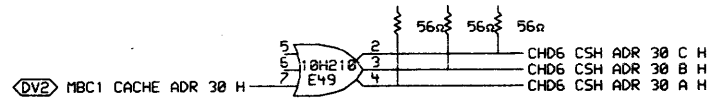
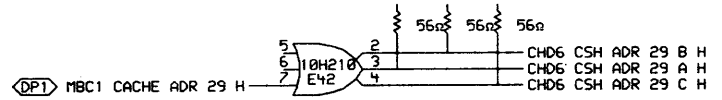
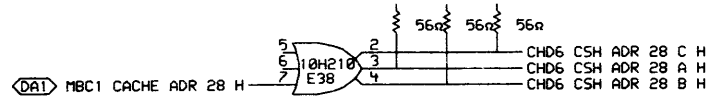
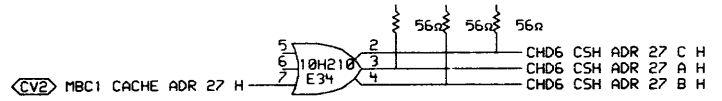
TITLE: CACHE DATA BITS [N+06], [N+07]	
SIZE D	CODE CS
NUMBER M856-0-CHD4	REV. A



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REVISIONS		
CHK	CHANGE NO.	REV

	DRN. <i>J. Family</i>	DATE 06-AUG-84	ENG. C. A. JENS	DATE 06-AUG-84	TITLE: CACHE DATA BIT [N+08]
	CHK'D D. DELLORCO	DATE 06-AUG-84	BOARD LOCATION: SHEET 1 OF 1	SIZE CODE D CS	NUMBER M856-0-CHD5
XTRA: <MCA25.REV8>PCHD5.DRW 23-JUL-84 14:11 FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M856-0		REV. A	MRD 1



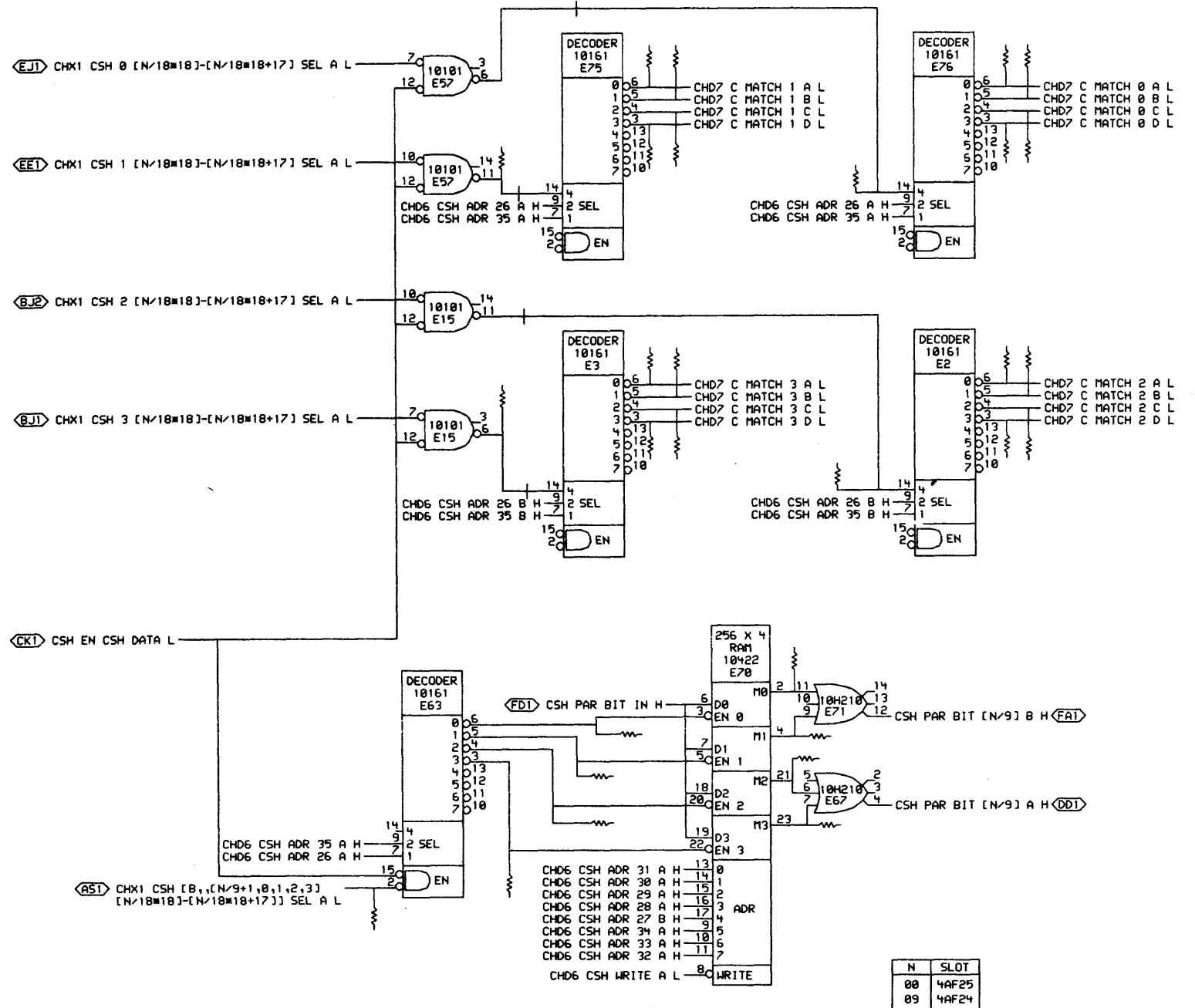
N	SLOT
00	4AF25
09	4AF24
18	4AF19
27	4AF12

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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. <i>J. J. J.</i>	DATE 06-AUG-84	ENG. C. A. JENS	DATE 06-AUG-84	TITLE: CACHE DATA ADDRESSING LOGIC
	CHK'D. D. DELLORCO	DATE 06-AUG-84	BOARD LOCATION: OF 1	SHEET	
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M856-0		SIZE D	CODE CS

SIZE	CODE	NUMBER	REV.
D	CS	M856-0-CHD6	A



- (EJ) CHX1 CSH 0 [N/18*18]-[N/18*18+17] SEL A L
- (EE) CHX1 CSH 1 [N/18*18]-[N/18*18+17] SEL A L
- (BJ) CHX1 CSH 2 [N/18*18]-[N/18*18+17] SEL A L
- (BU) CHX1 CSH 3 [N/18*18]-[N/18*18+17] SEL A L
- (CK) CSH EN CSH DATA L
- (AS) CHX1 CSH [B, [N/9+1, 0, 1, 2, 3] [N/18*18]-[N/18*18+17]] SEL A L
- (CF) [B, CHD7 TERM 00 [N] H, [N/27+1, CHD7 TERM 00 [N] H*#400\, MBC2 NEW 26 H]]
- (FF) [B, CHD7 TERM 01 H, [N/9+1, CHD7 TERM 01 00 H*#400\, CHD7 TERM 01 09 H*#400\, CCH BUF ADR 0 H, MBC1 CACHE ADR 28 H]]
- (AF) [B, CHD7 TERM 02 [N] H, [N/9+1, CHD7 TERM 02 00 H*#400\, CHX1 CSH 3 00-17 SEL A L, CHD7 TERM 02 18 H*#400\, MBC1 CACHE ADR 32 H]]
- (FP) [B, CHD7 TERM 03 [N] H, [N/9+1, CHD7 TERM 03 09 H*#400\, CCH BUF ADR 1 H, MBC1 CACHE ADR 29 H]]
- (AF) [B, CHD7 TERM 04 [N] H, [N/27+1, CHD7 TERM 04 [N] H*#400\, MBC1 CACHE ADR 33 H]]
- (FR) [B, CHD7 TERM 05 [N] H, [N/27+1, CHD7 TERM 05 [N] H*#400\, MBC1 CACHE ADR 30 H]]
- (AL) [B, CHD7 TERM 06 [N] H, [N/9+1, CHD7 TERM 06 00 H*#400\, CHD7 TERM 06 09 H*#400\, PMA 34 H, MBC1 CACHE ADR 34 H]]
- (AM) [B, CHD7 TERM 07 [N] H, [N/27+1, CHD7 TERM 07 [N] H*#400\, MBC1 CACHE ADR 35 H]]
- (AM) [B, CHD7 TERM 08 [N] H, [N/27+1, CHD7 TERM 08 [N] H*#400\, MBC1 CACHE ADR 35 L]]
- (AL) CHD7 TERM 09 [N] H*#400\
- (FS) [B, CHD7 TERM 10 [N] H, [N/27+1, CHD7 TERM 10 [N] H*#400\, MBC1 CACHE ADR 31 H]]
- (FS) [B, CHD7 TERM 11 [N] H, [N/9+1, CHD7 TERM 11 00 H*#400\, CHD7 TERM 11 09 H*#400\, CACHE EXISTS L, CHX1 CSH 0 18-35 SEL A L]]
- (FR) [B, CHD7 TERM 12 [N] H, [N/9+1, PMA5 EBOX PAGED H, CHD7 TERM 12 09 H*#400\, CHX1 CSH 1 18-35 SEL A L, CCH BUF ADR 2 H]]
- (AD) CHD7 TERM 13 [N] H*#400\
- (AE) [B, CHD7 TERM 14 [N] H, [N/27+1, CHD7 TERM 14 [N] H*#400\, CCL CH BUF EN L]]
- (AE) CHD7 TERM 15 [N] H*#400\
- (AD) CHD7 TERM 16 [N] H*#400\
- (AP) [B, CHD7 TERM 17 H, [N/9+1, CSH EN CSH DATA L, CHX1 CSH 2 00-17 SEL A L, PMA 35 H, MBC1 CACHE ADR 27 H]]

N	SLOT
00	4AF25
09	4AF24
18	4AF19
27	4AF12

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REVISIONS	
CHK	CHANGE NO. REV.

	DATE: 06-AUG-84	ENG.: C. A. JENS	DATE: 06-AUG-84	TITLE: CACHE SEL LOGIC TERMINATORS
	CHK'D: D. DELLORCO	DATE: 06-AUG-84	SHEET: 1 OF 1	BOARD LOCATION:
FIRST USED ON OPTION/MODEL: MCA25		NEXT HIGHER ASSEMBLY: D-DD-M856-0		SIZE CODE: D CS
NUMBER: M856-0-CHD7			REV.: A	MRO 1

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R52(1)	CHD4	B5	68Ω	%E10(2)	R82(1)	CHD1	B2	68Ω	%E54(4)	R221(1)	CHD6	D2	56Ω	CHD6 CSH ADR 27 D H	R237(1)	CHD6	B6	56Ω	CHD6 CSH ADR 34 B H
R69(1)	CHD5	C2	68Ω	%E12(4)	R14(1)	CHD1	B3	68Ω	%E55(2)	R189(1)	CHD6	D2	56Ω	CHD6 CSH ADR 27 E H	R171(1)	CHD6	B6	56Ω	CHD6 CSH ADR 34 C H
R178(1)	CHD5	C3	68Ω	%E13(2)	R2(1)	CHD1	B6	68Ω	%E56(2)	R214(1)	CHD6	D2	56Ω	CHD6 CSH ADR 27 F H	R222(1)	CHD6	B2	56Ω	CHD6 CSH ADR 34 D H
R66(1)	CHD5	C3	68Ω	%E14(2)	R242(1)	CHD7	D6	68Ω	%E57(11)	R38(1)	CHD6	D6	56Ω	CHD6 CSH ADR 28 A H	R67(1)	CHD6	B2	56Ω	CHD6 CSH ADR 34 E H
R151(1)	CHD7	C5	68Ω	%E15(11)	R173(1)	CHD7	D5	68Ω	%E57(6)	R167(1)	CHD6	D6	56Ω	CHD6 CSH ADR 28 B H	R118(1)	CHD6	B2	56Ω	CHD6 CSH ADR 34 F H
R50(1)	CHD7	C6	68Ω	%E15(6)	R44(1)	CHD1	B2	68Ω	%E58(2)	R138(1)	CHD6	D6	56Ω	CHD6 CSH ADR 28 C H	R205(1)	CHD6	A2	56Ω	CHD6 CSH ADR 35 A H
R55(1)	CHD3	B2	68Ω	%E16(12)	R120(1)	CHD1	B5	68Ω	%E59(2)	R233(1)	CHD6	D2	56Ω	CHD6 CSH ADR 28 D H	R139(1)	CHD6	A2	56Ω	CHD6 CSH ADR 35 B H
R197(1)	CHD3	B7	68Ω	%E16(2)	R182(1)	CHD4	B6	68Ω	%E6(2)	R216(1)	CHD6	D2	56Ω	CHD6 CSH ADR 28 E H	R25(1)	CHD6	A6	56Ω	-CHD6 CSH WRITE A H
R218(1)	CHD3	B4	68Ω	%E16(3)	R190(1)	CHD2	D4	68Ω	%E61(2)	R213(1)	CHD6	D2	56Ω	CHD6 CSH ADR 28 F H	R32(1)	CHD6	A6	56Ω	-CHD6 CSH WRITE B H
R185(1)	CHD5	C4	68Ω	%E17(2)	R188(1)	CHD2	D6	68Ω	%E62(2)	R152(1)	CHD6	C6	56Ω	CHD6 CSH ADR 29 A H	R121(1)	CHD6	A6	56Ω	-CHD6 CSH WRITE C H
R186(1)	CHD5	C3	68Ω	%E18(2)	R20(1)	CHD7	A6	68Ω	%E63(3)	R162(1)	CHD6	C6	56Ω	CHD6 CSH ADR 29 B H	R194(1)	CHD6	A2	56Ω	-CHD6 CSH WRITE D H
R34(1)	CHD3	B3	68Ω	%E20(2)	R181(1)	CHD7	B6	68Ω	%E63(4)	R122(1)	CHD6	C6	56Ω	CHD6 CSH ADR 29 C H	R208(1)	CHD6	A2	56Ω	-CHD6 CSH WRITE E H
R46(1)	CHD3	B5	68Ω	%E21(2)	R18(1)	CHD7	B6	68Ω	%E63(5)	R73(1)	CHD6	C2	56Ω	CHD6 CSH ADR 29 D H	R53(1)	CHD6	A2	56Ω	-CHD6 CSH WRITE F H
R118(1)	CHD4	D7	68Ω	%E23(2)	R182(1)	CHD7	B6	68Ω	%E63(6)	R97(1)	CHD6	C2	56Ω	CHD6 CSH ADR 29 E H	R125(1)	CHD7	D4	68Ω	-CHD7 C MATCH 0 A H
R229(1)	CHD4	D4	68Ω	%E23(3)	R99(1)	CHD2	D2	68Ω	%E64(4)	R211(1)	CHD6	C2	56Ω	CHD6 CSH ADR 29 F H	R199(1)	CHD7	D4	68Ω	-CHD7 C MATCH 0 B H
R187(1)	CHD3	B2	68Ω	%E24(2)	R15(1)	CHD2	D2	68Ω	%E65(2)	R172(1)	CHD6	C6	56Ω	CHD6 CSH ADR 30 A H	R209(1)	CHD7	D4	68Ω	-CHD7 C MATCH 0 C H
R58(1)	CHD3	B7	68Ω	%E25(2)	R189(1)	CHD2	D5	68Ω	%E66(2)	R144(1)	CHD6	C6	56Ω	CHD6 CSH ADR 30 B H	R145(1)	CHD7	D4	68Ω	-CHD7 C MATCH 0 D H
R57(1)	CHD4	D2	68Ω	%E27(4)	R236(1)	CHD2	D4	68Ω	%E67(13)	R132(1)	CHD6	C6	56Ω	CHD6 CSH ADR 30 C H	R128(1)	CHD7	D5	68Ω	-CHD7 C MATCH 1 A H
R114(1)	CHD4	D4	68Ω	%E28(2)	R150(1)	CHD2	D7	68Ω	%E67(14)	R74(1)	CHD6	C2	56Ω	CHD6 CSH ADR 30 D H	R68(1)	CHD7	D5	68Ω	-CHD7 C MATCH 1 B H
R103(1)	CHD4	D6	68Ω	%E29(2)	R245(1)	CHD1	D2	68Ω	%E68(2)	R38(1)	CHD6	C2	56Ω	CHD6 CSH ADR 30 E H	R253(1)	CHD7	D5	68Ω	-CHD7 C MATCH 1 C H
R113(1)	CHD4	D3	68Ω	%E32(2)	R12(1)	CHD1	D6	68Ω	%E69(2)	R212(1)	CHD6	C2	56Ω	CHD6 CSH ADR 30 F H	R170(1)	CHD7	D5	68Ω	-CHD7 C MATCH 1 D H
R177(1)	CHD4	D5	68Ω	%E33(2)	R7(1)	CHD7	B5	68Ω	%E70(2)	R224(1)	CHD6	C6	56Ω	CHD6 CSH ADR 31 A H	R148(1)	CHD7	C4	68Ω	-CHD7 C MATCH 2 A H
R129(1)	CHD2	B7	68Ω	%E36(2)	R192(1)	CHD7	B5	68Ω	%E70(21)	R96(1)	CHD6	C6	56Ω	CHD6 CSH ADR 31 B H	R146(1)	CHD7	C4	68Ω	-CHD7 C MATCH 2 B H
R227(1)	CHD2	B4	68Ω	%E36(4)	R11(1)	CHD7	B5	68Ω	%E70(23)	R219(1)	CHD6	C6	56Ω	CHD6 CSH ADR 31 C H	R244(1)	CHD7	C4	68Ω	-CHD7 C MATCH 2 C H
R250(1)	CHD2	B2	68Ω	%E39(12)	R18(1)	CHD7	B5	68Ω	%E70(4)	R226(1)	CHD6	C2	56Ω	CHD6 CSH ADR 31 D H	R179(1)	CHD7	C4	68Ω	-CHD7 C MATCH 2 D H
R61(1)	CHD4	B2	68Ω	%E4(4)	R8(1)	CHD1	D3	68Ω	%E72(2)	R168(1)	CHD6	C2	56Ω	CHD6 CSH ADR 31 E H	R134(1)	CHD7	C5	68Ω	-CHD7 C MATCH 3 A H
R251(1)	CHD2	B2	68Ω	%E40(2)	R247(1)	CHD1	D5	68Ω	%E73(2)	R286(1)	CHD6	C2	56Ω	CHD6 CSH ADR 31 F H	R158(1)	CHD7	C5	68Ω	-CHD7 C MATCH 3 B H
R24(1)	CHD2	B5	68Ω	%E41(2)	R248(1)	CHD1	D2	68Ω	%E74(12)	R204(1)	CHD6	B6	56Ω	CHD6 CSH ADR 32 A H	R241(1)	CHD7	C5	68Ω	-CHD7 C MATCH 3 C H
R27(1)	CHD3	D2	68Ω	%E43(4)	R174(1)	CHD1	D7	68Ω	%E74(2)	R191(1)	CHD6	B6	56Ω	CHD6 CSH ADR 32 B H	R243(1)	CHD7	C5	68Ω	-CHD7 C MATCH 3 D H
R252(1)	CHD2	B4	68Ω	%E44(2)	R239(1)	CHD1	D4	68Ω	%E74(3)	R228(1)	CHD6	B6	56Ω	CHD6 CSH ADR 32 C H	R91(1)	CHD7	B1	68Ω	CHD7 TERM 09 [N] HN#400\
R249(1)	CHD2	B6	68Ω	%E45(2)	R157(1)	CHD4	B4	68Ω	%E8(13)	R232(1)	CHD6	B2	56Ω	CHD6 CSH ADR 32 D H	R81(1)	CHD7	B1	68Ω	CHD7 TERM 13 [N] HN#400\
R26(1)	CHD3	D2	68Ω	%E47(2)	R218(1)	CHD4	B7	68Ω	%E8(14)	R137(1)	CHD6	B2	56Ω	CHD6 CSH ADR 32 E H	R79(1)	CHD7	A1	68Ω	CHD7 TERM 15 [N] HN#400\
R29(1)	CHD3	D5	68Ω	%E48(2)	R143(1)	CHD5	C7	68Ω	%E8(2)	R215(1)	CHD6	B2	56Ω	CHD6 CSH ADR 32 F H	R75(1)	CHD7	A1	68Ω	CHD7 TERM 16 [N] HN#400\
R51(1)	CHD4	B3	68Ω	%E5(2)	R217(1)	CHD5	C4	68Ω	%E8(3)	R203(1)	CHD6	B6	56Ω	CHD6 CSH ADR 33 A H	R19(1)	CHD7	A6	68Ω	-CHX1 CSH [B, [N/9+1,0,1,2,3] [N/18*18]-[N/18*18+17]] SEL A H
R23(1)	CHD3	D4	68Ω	%E50(13)	R181(1)	CHD4	B4	68Ω	%E9(2)	R160(1)	CHD6	B6	56Ω	CHD6 CSH ADR 33 B H	R220(1)	CHD6	A7	68Ω	-MBC2 CACHE WR [N] A H
R126(1)	CHD3	D7	68Ω	%E50(14)	R240(1)	CHD6	A6	56Ω	CHD6 CSH ADR 26 A H	R223(1)	CHD6	B6	56Ω	CHD6 CSH ADR 33 C H	R246(1)	CHD1	D2	68Ω	MEM TO CACHE [N+00] H
R235(1)	CHD1	B4	68Ω	%E50(2)	R281(1)	CHD6	A6	56Ω	CHD6 CSH ADR 26 B H	R48(1)	CHD6	B2	56Ω	CHD6 CSH ADR 33 D H	R193(1)	CHD1	B2	68Ω	MEM TO CACHE [N+01] H
R142(1)	CHD1	B7	68Ω	%E50(3)	R238(1)	CHD6	D6	56Ω	CHD6 CSH ADR 27 A H	R207(1)	CHD6	B2	56Ω	CHD6 CSH ADR 33 E H	R180(1)	CHD2	D2	68Ω	MEM TO CACHE [N+02] H
R42(1)	CHD3	D3	68Ω	%E51(2)	R31(1)	CHD6	D6	56Ω	CHD6 CSH ADR 27 B H	R180(1)	CHD6	B2	56Ω	CHD6 CSH ADR 33 F H	R230(1)	CHD2	B2	68Ω	MEM TO CACHE [N+03] H
R22(1)	CHD3	D7	68Ω	%E52(2)	R156(1)	CHD6	D6	56Ω	CHD6 CSH ADR 27 C H	R6(1)	CHD6	B6	56Ω	CHD6 CSH ADR 34 A H	R234(1)	CHD3	D2	68Ω	MEM TO CACHE [N+04] H

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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RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL
R64<1>	CHD3 B2	68Ω	MEM TO CACHE [N+05] H	R111<1>	CHD8 A5	68Ω	NC	R94<1>	CHD7 D1	68Ω	[B,CHD7 TERM 01 H, [N/9+1,CHD7 TERM 01 00 H\#400\, CHD7 TERM 01 09 H\#400\,CCW BUF ADR 0 H, MBC1 CACHE ADR 28 H]]
R56<1>	CHD4 D2	68Ω	MEM TO CACHE [N+06] H	R112<1>	CHD8 A5	68Ω	NC	R86<1>	CHD7 D1	68Ω	[B,CHD7 TERM 02 [N] H, [N/9+1, CHD7 TERM 02 00 H\#400\,CHX1 CSH 3 00-17 SEL A L, CHD7 TERM 02 18 H\#400\,MBC1 CACHE ADR 32 H]]
R72<1>	CHD4 B2	68Ω	MEM TO CACHE [N+07] H	R115<1>	CHD8 A5	68Ω	NC	R90<1>	CHD7 D1	68Ω	[B,CHD7 TERM 03 [N] H, [N/9+1,CSH PAR BIT IN H, CHD7 TERM 03 09 H\#400\, CCW BUF ADR 1 H,MBC1 CACHE ADR 29 H]]
R71<1>	CHD5 C2	68Ω	MEM TO CACHE [N+08] H	R116<1>	CHD8 A5	68Ω	NC	R87<1>	CHD7 C1	68Ω	[B,CHD7 TERM 04 [N] H, [N/27+1, CHD7 TERM 04 [N] H\#400\,MBC1 CACHE ADR 33 H]]
R1<1>	CHD8 B5	68Ω	NC	R117<1>	CHD8 A5	68Ω	NC	R92<1>	CHD7 C1	68Ω	[B,CHD7 TERM 05 [N] H, [N/27+1, CHD7 TERM 05 [N] H\#400\,MBC1 CACHE ADR 30 H]]
R3<1>	CHD8 B5	68Ω	NC	R119<1>	CHD8 A5	68Ω	NC	R93<1>	CHD7 C1	68Ω	[B,CHD7 TERM 06 [N] H, [N/9+1, CHD7 TERM 06 00 H\#400\,CHD7 TERM 06 09 H\#400\, PMA 34 H,MBC1 CACHE ADR 34 H]]
R4<1>	CHD8 B5	68Ω	NC	R123<1>	CHD8 A5	68Ω	NC	R45<1>	CHD7 C1	68Ω	[B,CHD7 TERM 07 [N] H, [N/27+1, CHD7 TERM 07 [N] H\#400\,MBC1 CACHE ADR 35 H]]
R5<1>	CHD8 B5	68Ω	NC	R124<1>	CHD8 A5	68Ω	NC	R89<1>	CHD7 C1	68Ω	[B,CHD7 TERM 08 [N] H, [N/27+1, CHD7 TERM 08 [N] H\#400\, MBC1 CACHE ADR 35 L]]
R9<1>	CHD8 B5	68Ω	NC	R127<1>	CHD8 A5	68Ω	NC	R85<1>	CHD7 B1	68Ω	[B,CHD7 TERM 10 [N] H, [N/27+1, CHD7 TERM 10 [N] H\#400\, MBC1 CACHE ADR 31 H]]
R13<1>	CHD8 B5	68Ω	NC	R130<1>	CHD8 A5	68Ω	NC	R84<1>	CHD7 B1	68Ω	[B,CHD7 TERM 11 [N] H, [N/9+1, CHD7 TERM 11 00 H\#400\,CHD7 TERM 11 09 H\#400\, CACHE EXISTS L,CHX1 CSH 0 18-35 SEL A L]]
R16<1>	CHD8 B5	68Ω	NC	R131<1>	CHD8 A5	68Ω	NC	R83<1>	CHD7 B1	68Ω	[B,CHD7 TERM 12 [N] H, [N/9+1,PMA5 EBOX PAGED H, CHD7 TERM 12 09 H\#400\,CHX1 CSH 1 18-35 SEL A L, CCW BUF ADR 2 H]]
R17<1>	CHD8 B5	68Ω	NC	R133<1>	CHD8 A5	68Ω	NC	R77<1>	CHD7 A1	68Ω	[B,CHD7 TERM 14 [N] H, [N/27+1, CHD7 TERM 14 [N] H\#400\, CCL CH BUF EN L]]
R21<1>	CHD8 B5	68Ω	NC	R135<1>	CHD8 A5	68Ω	NC	R39<1>	CHD7 A1	68Ω	[B,CHD7 TERM 17 H, [N/9+1, CSH EN CSH DATA L, CHX1 CSH 2 00-17 SEL A L, PMA 35 H,MBC1 CACHE ADR 27 H]]
R28<1>	CHD8 B5	68Ω	NC	R136<1>	CHD8 A5	68Ω	NC				
R33<1>	CHD8 A5	68Ω	NC	R141<1>	CHD8 A1	68Ω	NC				
R35<1>	CHD8 B5	68Ω	NC	R147<1>	CHD8 A1	68Ω	NC				
R36<1>	CHD8 B5	68Ω	NC	R148<1>	CHD8 A1	68Ω	NC				
R37<1>	CHD8 B5	68Ω	NC	R149<1>	CHD8 A1	68Ω	NC				
R40<1>	CHD8 B5	68Ω	NC	R153<1>	CHD8 A1	68Ω	NC				
R41<1>	CHD8 B5	68Ω	NC	R154<1>	CHD8 A1	68Ω	NC				
R43<1>	CHD8 B5	68Ω	NC	R155<1>	CHD8 A1	68Ω	NC				
R47<1>	CHD8 B5	68Ω	NC	R159<1>	CHD8 A5	68Ω	NC				
R49<1>	CHD8 B5	68Ω	NC	R161<1>	CHD8 A5	68Ω	NC				
R54<1>	CHD8 B5	68Ω	NC	R163<1>	CHD8 A1	68Ω	NC				
R59<1>	CHD8 B5	68Ω	NC	R164<1>	CHD8 A1	68Ω	NC				
R60<1>	CHD8 A5	68Ω	NC	R165<1>	CHD8 A1	68Ω	NC				
R62<1>	CHD8 B5	68Ω	NC	R166<1>	CHD8 A1	68Ω	NC				
R63<1>	CHD8 B5	68Ω	NC	R169<1>	CHD8 A1	68Ω	NC				
R65<1>	CHD8 B5	68Ω	NC	R175<1>	CHD8 A1	68Ω	NC				
R70<1>	CHD8 B5	68Ω	NC	R176<1>	CHD8 A1	68Ω	NC				
R76<1>	CHD8 A5	68Ω	NC	R183<1>	CHD8 A1	68Ω	NC				
R78<1>	CHD8 A5	68Ω	NC	R184<1>	CHD8 A2	68Ω	NC				
R80<1>	CHD8 A5	68Ω	NC	R195<1>	CHD8 A2	68Ω	NC				
R88<1>	CHD8 A5	68Ω	NC	R196<1>	CHD8 A2	68Ω	NC				
R98<1>	CHD8 A5	68Ω	NC	R198<1>	CHD8 A2	68Ω	NC				
R104<1>	CHD8 A5	68Ω	NC	R200<1>	CHD8 A2	68Ω	NC				
R105<1>	CHD8 A5	68Ω	NC	R202<1>	CHD8 A2	68Ω	NC				
R106<1>	CHD8 A5	68Ω	NC	R225<1>	CHD8 A2	68Ω	NC				
R107<1>	CHD8 A5	68Ω	NC	R231<1>	CHD8 A2	68Ω	NC				
R108<1>	CHD8 A5	68Ω	NC	R95<1>	CHD7 D1	68Ω	[B,CHD7 TERM 00 [N] H, [N/27+1,CHD7 TERM 00 [N] H\#400\, MBC2 NEW 26 H]]				

- 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. Ω INDICATES OUTPUT OF DIP LOC AND (<) INDICATES PIN NUMBER

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REVISIONS	
CHK	CHANGE NO. REV

digital
 DATE 06-AUG-84 ENG. C. A. JENS
 DATE 06-AUG-84 BOARD LOCATION:
 CHK'D D. DELLORCO DATE 06-AUG-84 SHEET 2 OF 2
 XTRA: MCA25.MP21.REV B M8562.DRW 24-JUL-84 12:49 NEXT HIGHER ASSEMBLY:
 FIRST USED ON OPTION MODEL: MCA25 D-DD-M856-0

TITLE: CACHE DATA TERMINATORS	SIZE CODE D CS	NUMBER M856-0-RES	REV. A
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D
C
B
A

DRAWING NUMBER	NO. OF SHT	PART NUMBER	DESCRIPTION	REVISION
		M857-00	MODULE REVISION	A1
D-UA-M857-0-0	1		MBOX CONTROL #3	A
K-PL-M857-0-DBP	2		PART LIST, M857	A
D-CS-M857-0-MBC1	1		CSH ADR MIX, EBUS & PMA HOLD REG	A
D-CS-M857-0-MBC2	1		FORCE VAL MATCH & MBC DIAG MIX	A
D-CS-M857-0-MBC3	1		DATA VAL OUT, CLK, PHS, MEM START	A
D-CS-M857-0-MBC4	1		MEM REQUESTS, ACK & DAT VAL CTRS	A
D-CS-M857-0-MBC5	1		FORCE VAL MATCH & MBC DIAG MIX	A
D-CS-M857-0-MBC6	1		MBC MBOX CONTROL PWR, GND, CAPS	A
D-CS-M857-0-RES	2		MBOX CONTROL 3 TERMINATORS	A
K-PC-M857-0-DBI	-		P.C. DESIGN DATA BASE TAPE	A
D-DD-5017663-0	1		DRAWING DIRECTORY, 5017663	REF

REV. A
NUMBER
M857-0
D
B

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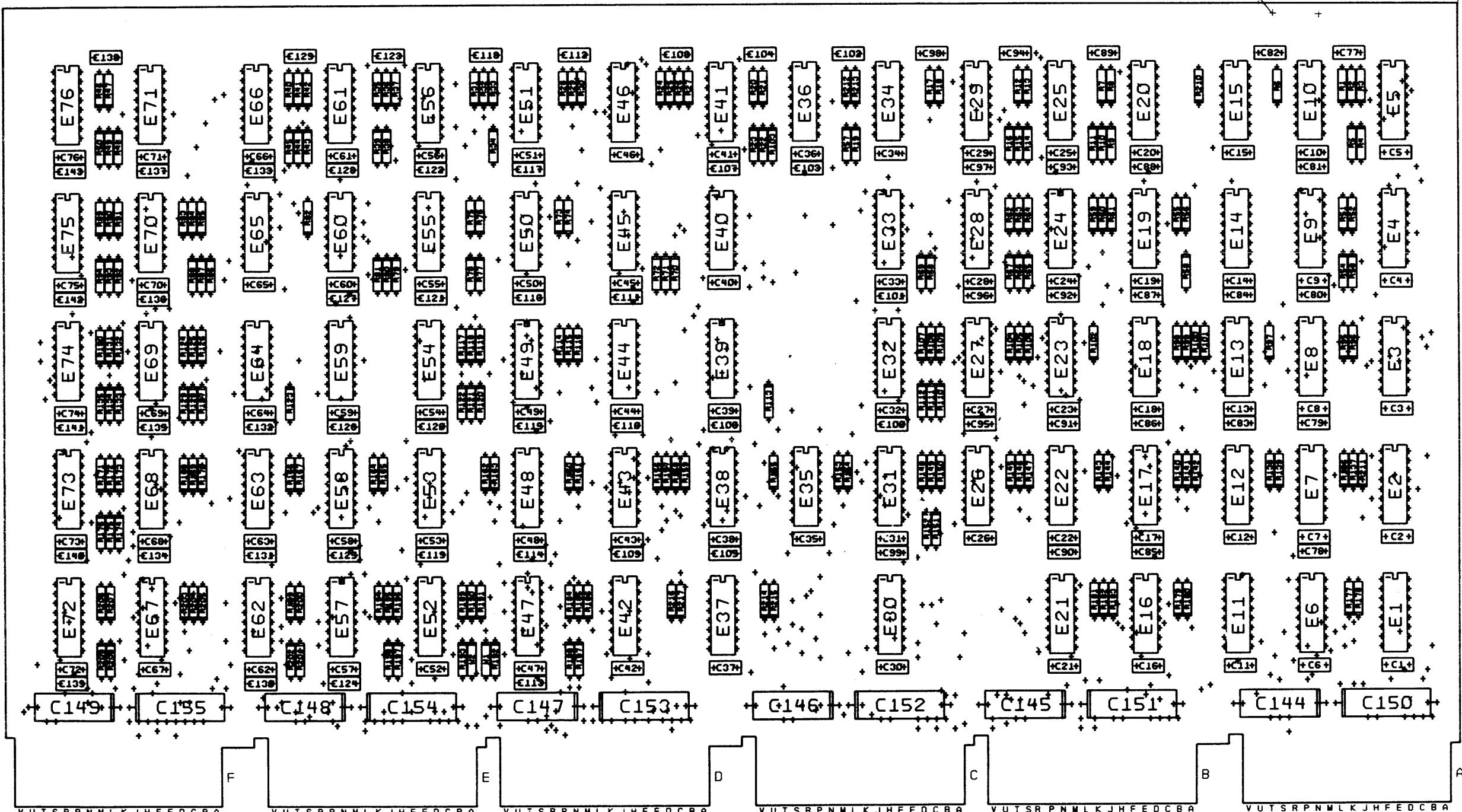
REVISIONS		
CHK	CHANGE NO.	REV

DRN. AS <i>Wessnes</i>	DATE 28-AUG-84	ENG. <i>C. Meyer</i>	DATE 28-AUG-84
CHK'D. <i>W. Wessnes</i>	DATE 28-AUG-84	BOARD LOCATION: N/A	
DSK: M857A.T2PL4.105J	28-AUG-84 11:01	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KL10-PW		NEXT HIGHER ASSEMBLY: MCA25	

TITLE: M857			
DRAWING DIRECTORY			
SIZE	CODE	NUMBER	REV.
D	DD	M857-0	A

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22 (QTY 12) COMPONENT SIDE VIEW



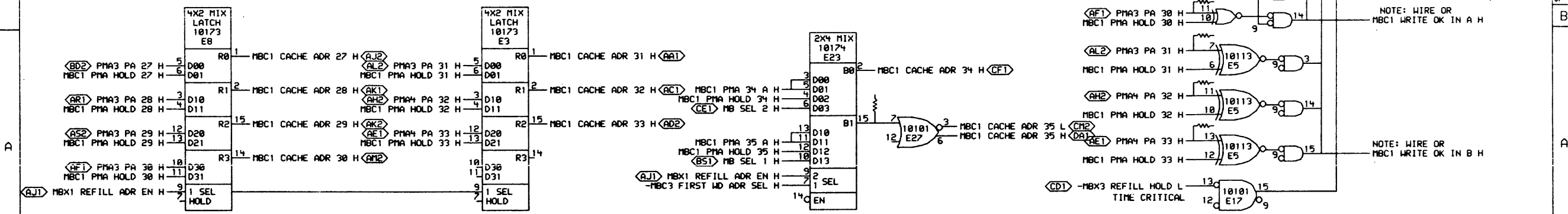
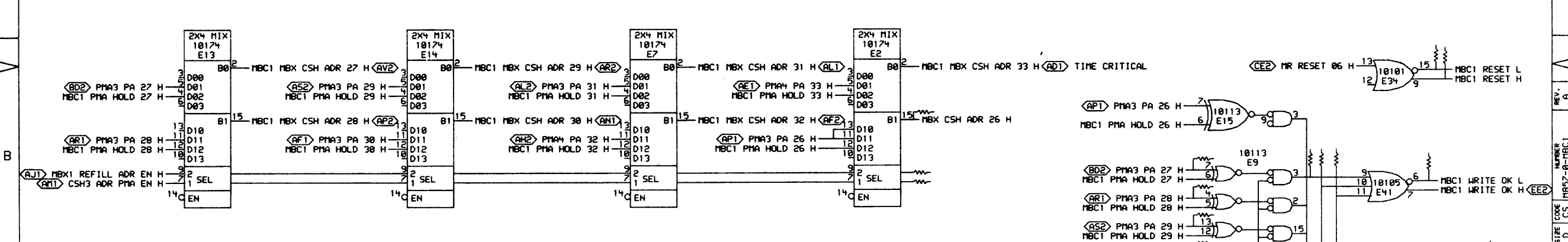
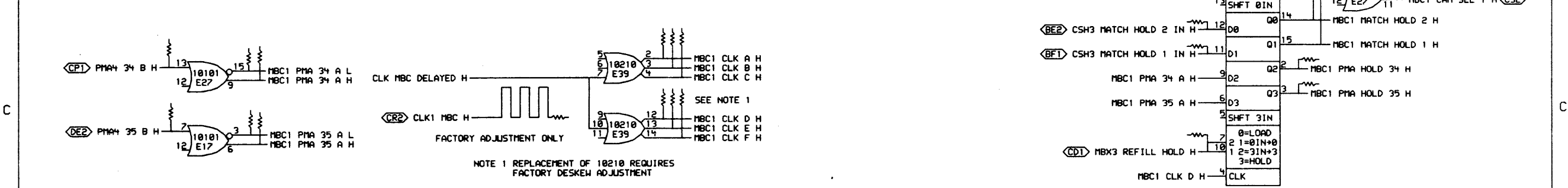
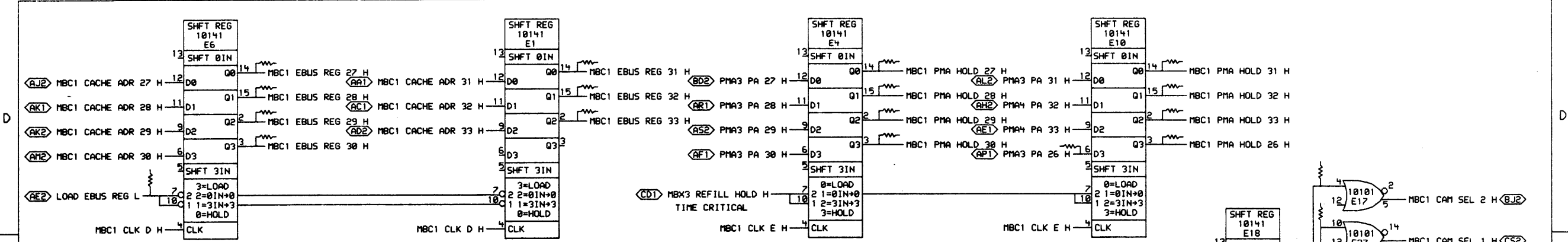
NOTES:

STEP E → Y AXIS 0 STEP 0 TIMES
 REPEAT → X AXIS 0 STEP 0 TIMES

CHK	CHANGE	NO	REV

ETCH	REV.	AI
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SIGNATURES		DATE	digital	
DRN.	<i>[Signature]</i>	4/17/84		
CHK'D BY	<i>[Signature]</i>	5/20/84		
MECH. ENG.	<i>[Signature]</i>	7-30-84		
PROJ. ENG.	<i>[Signature]</i>	7-30-84		
PROD.	<i>[Signature]</i>	12-29-84	TITLE	MBOX CONTROL 3
SCALE 2/1	SIZE	CODE	NUMBER	REV
SHT. 1 OF 1	0	UA	M857-0-0	A
TOP DOC. NO.: D-DD-M857-0				

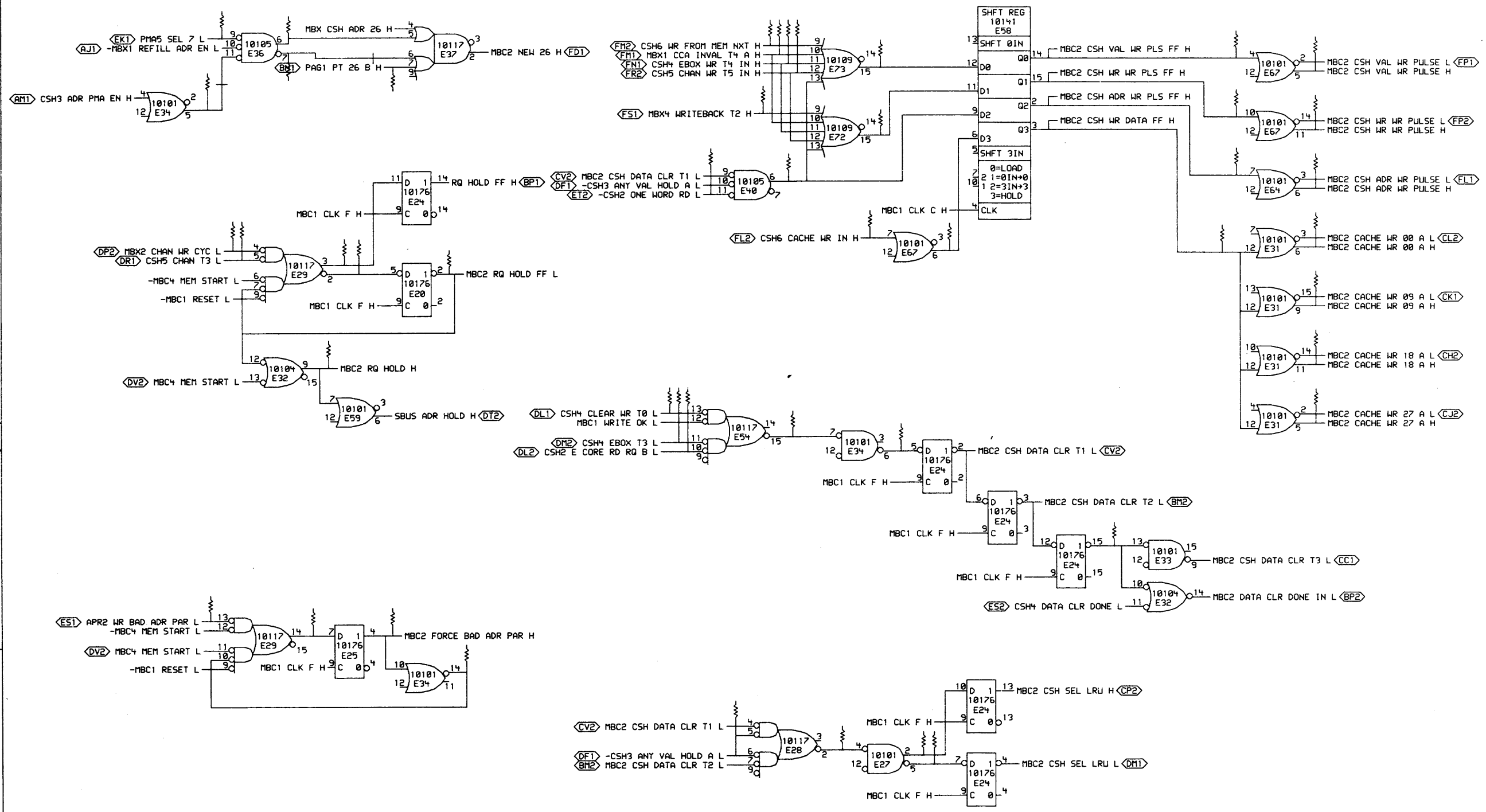


D

C

B

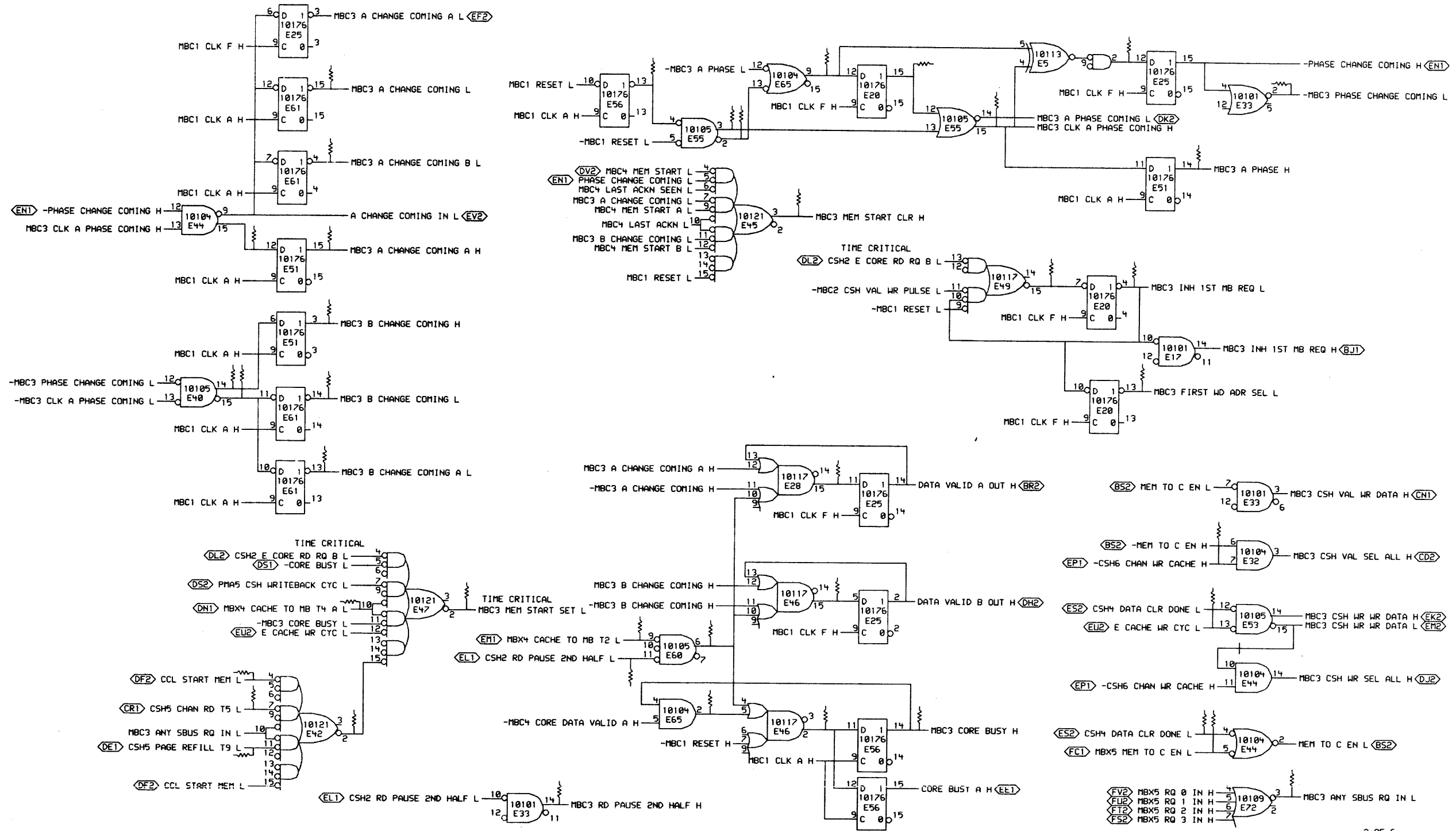
A



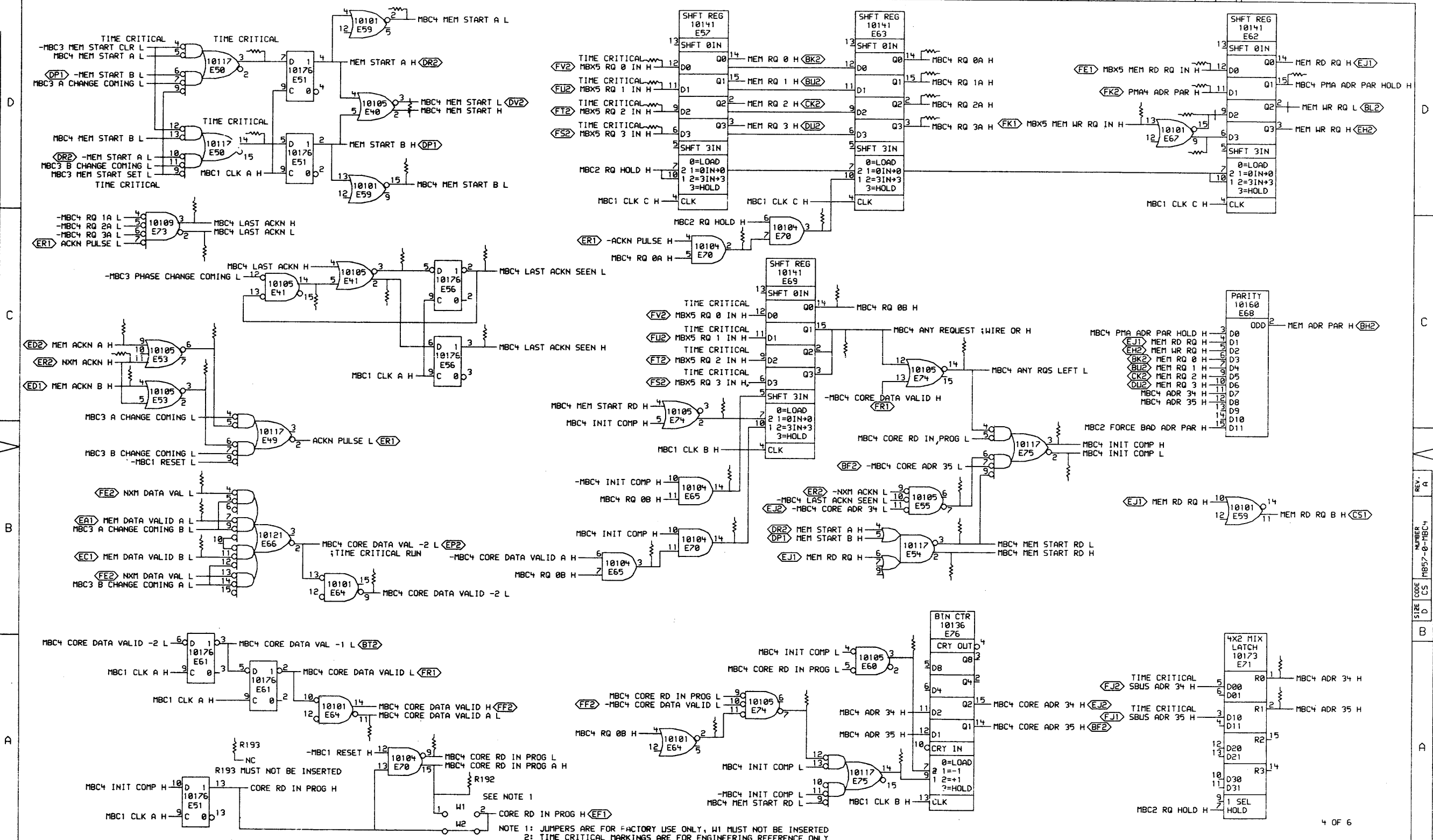
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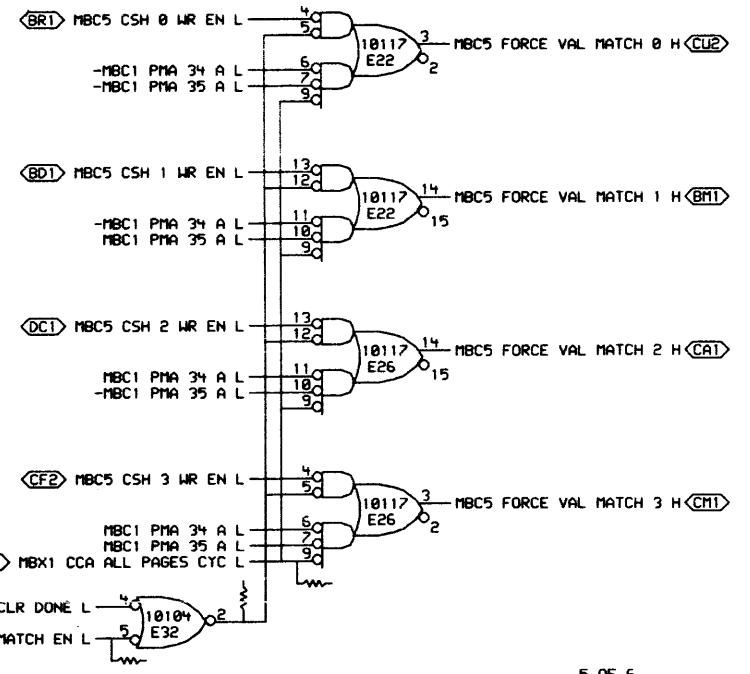
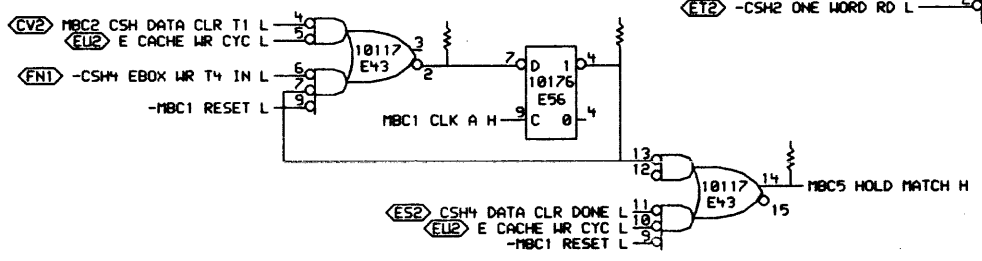
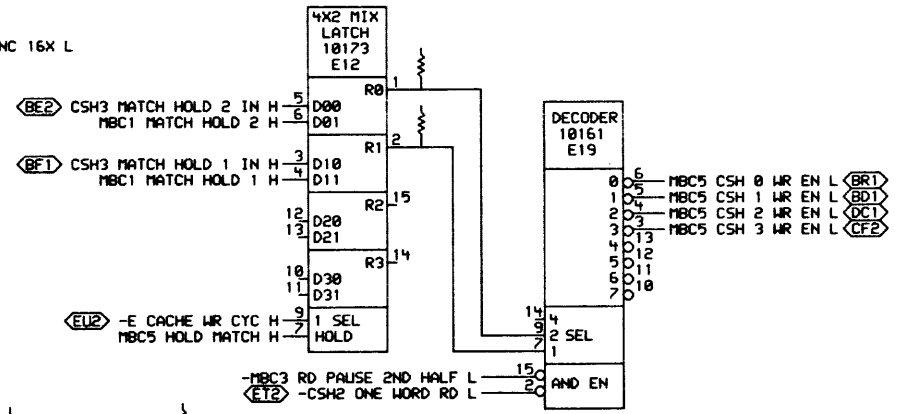
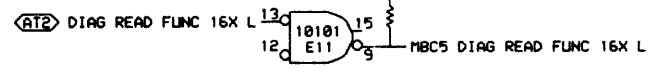
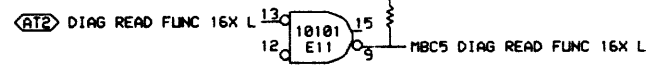
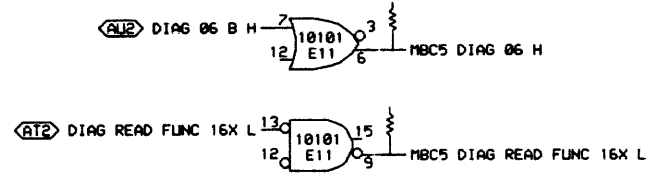
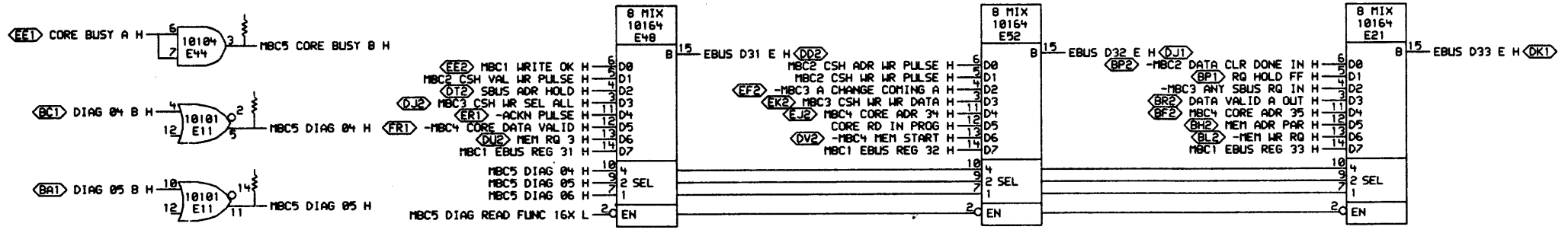
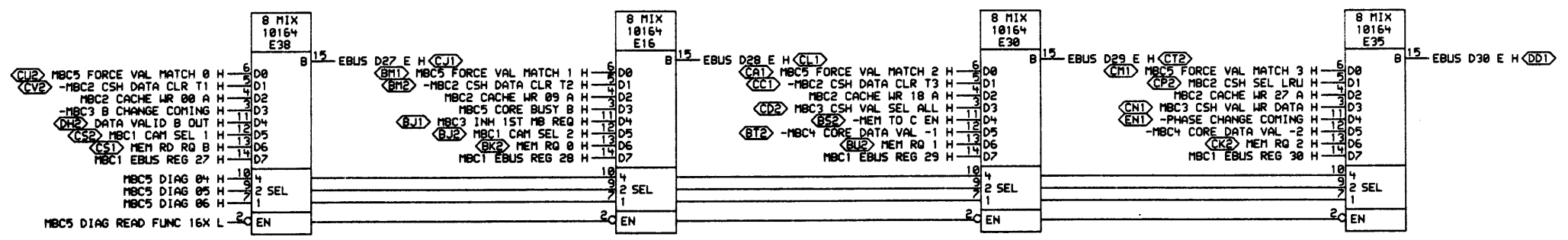
REVISIONS
CHK CHANGE NO. REV

digital	DRW. J. JENSEN	DATE 06-AUG-84	ENG. C.A. JENS	DATE 06-AUG-84	TITLE: FORCE VAL MATCH & MBC DIAG MIX
	CHK'D D. DELORCO	DATE 06-AUG-84	BOARD LOCATION: 4AF22	SHEET 1 OF 1	
XTRA:MCA25.M8571.MBC2.DRW 06-AUG-84 09:19 NEXT HIGHER ASSEMBLY:			SIZE CODE D CS	NUMBER M857-0-MBC2	REV. A
FIRST USED ON OPTION/MODEL: MCA25			D-DD-M857-0		



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REVISIONS	CHK	CHANGE NO.	REV

digital	DATE: 06-AUG-84	ENG: C.A. JENS	DATE: 06-AUG-84	TITLE: FORCE VAL MATCH & MBC DIAG MIX
CHK'D: D. DELLORCO	DATE: 06-AUG-84	BOARD LOCATION: 48F22	DATE: 06-AUG-84	SIZE: D
				CODE: CS
				NUMBER: M857-0-MBC5
				REV: A

RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN ON DRW#	VALUE	TERMINATES SIGNAL
R56(1)	MBC5 B5	68n	%E12(1)	R80(1)	MBC3 D5	68n	%E56(13)	R174(1)	MBC2 D4	68n	CSH6 WR FROM MEM NXT H	R155(1)	MBC2 C1	68n	MBC2 CACHE WR 27 A H
R60(1)	MBC5 B5	68n	%E12(2)	R156(1)	MBC5 A6	68n	%E56(4)	R198(1)	MBC3 B2	68n	-E CACHE WR CYC H	R123(1)	MBC2 D2	68n	MBC2 CSH ADR WR PLS FF H
R21(1)	MBC1 B2	68n	%E17(15)	R50(1)	MBC4 A3	68n	%E60(3)	R177(1)	MBC1 D8	68n	-LOAD EBUS REG H	R198(1)	MBC2 D1	68n	MBC2 CSH ADR WR PULSE H
R75(1)	MBC3 D3	68n	%E20(15)	R67(1)	MBC3 B5	68n	%E60(6)	R39(1)	MBC1 C5	68n	MBC1 CLK A H	R207(1)	MBC2 D2	68n	MBC2 CSH VAL WR PLS FF H
R110(1)	MBC1 A4	68n	%E23(15)	R131(1)	MBC4 A4	68n	%E64(2)	R47(1)	MBC1 C5	68n	MBC1 CLK B H	R114(1)	MBC2 D1	68n	MBC2 CSH VAL WR PULSE H
R112(1)	MBC2 B3	68n	%E24(15)	R128(1)	MBC4 B4	68n	%E65(14)	R200(1)	MBC1 C5	68n	MBC1 CLK C H	R149(1)	MBC2 C2	68n	MBC2 CSH WR DATA FF H
R66(1)	MBC2 A4	68n	%E27(2)	R30(1)	MBC3 A5	68n	%E65(2)	R178(1)	MBC1 C5	68n	MBC1 CLK D H	R204(1)	MBC2 D2	68n	MBC2 CSH WR WR PLS FF H
R65(1)	MBC2 A3	68n	%E27(5)	R88(1)	MBC4 B5	68n	%E65(3)	R6(1)	MBC1 C5	68n	MBC1 CLK E H	R196(1)	MBC2 D1	68n	MBC2 CSH WR WR PULSE H
R11(1)	MBC3 B4	68n	%E28(15)	R3(1)	MBC3 D4	68n	%E65(9)	R10(1)	MBC1 C5	68n	MBC1 CLK F H	R170(1)	MBC2 B6	68n	MBC2 FORCE BAD ADR PAR H
R109(1)	MBC2 A4	68n	%E28(2)	R201(1)	MBC4 D2	68n	%E67(15)	R157(1)	MBC1 D7	68n	MBC1 EBUS REG 27 H	R40(1)	MBC2 C7	68n	MBC2 RQ HOLD H
R14(1)	MBC2 B7	68n	%E29(14)	R167(1)	MBC2 C3	68n	%E67(6)	R180(1)	MBC1 D7	68n	MBC1 EBUS REG 28 H	R108(1)	MBC2 C6	68n	-MBC2 RQ HOLD FF H
R8(1)	MBC2 C7	68n	%E29(2)	R205(1)	MBC4 D2	68n	%E67(9)	R151(1)	MBC1 D7	68n	MBC1 EBUS REG 29 H	R62(1)	MBC3 D7	68n	-MBC3 A CHANGE COMING H
R59(1)	MBC2 C7	68n	%E29(3)	R129(1)	MBC4 B4	68n	%E70(14)	R154(1)	MBC1 D7	68n	MBC1 EBUS REG 30 H	R63(1)	MBC3 C7	68n	MBC3 A CHANGE COMING A H
R143(1)	MBC5 A2	68n	%E32(2)	R92(1)	MBC4 C4	68n	%E70(2)	R160(1)	MBC1 D6	68n	MBC1 EBUS REG 31 H	R44(1)	MBC3 D7	68n	-MBC3 A CHANGE COMING B H
R16(1)	MBC2 A6	68n	%E34(14)	R166(1)	MBC4 C4	68n	%E70(3)	R195(1)	MBC1 D6	68n	MBC1 EBUS REG 32 H	R87(1)	MBC3 D2	68n	MBC3 A PHASE H
R213(1)	MBC2 D7	68n	%E34(5)	R165(1)	MBC2 D4	68n	%E72(15)	R182(1)	MBC1 D6	68n	MBC1 EBUS REG 33 H	R181(1)	MBC3 A1	68n	-MBC3 ANY SBUS RQ IN H
R64(1)	MBC2 B4	68n	%E34(6)	R164(1)	MBC2 D4	68n	%E73(15)	R140(1)	MBC1 D2	68n	MBC1 MATCH HOLD 1 H	R24(1)	MBC3 C7	68n	-MBC3 A CHANGE COMING H
R215(1)	MBC2 D7	68n	%E36(6)	R133(1)	MBC4 C4	68n	%E74(2)	R142(1)	MBC1 D2	68n	MBC1 MATCH HOLD 2 H	R158(1)	MBC3 C7	68n	-MBC3 B CHANGE COMING H
R214(1)	MBC2 D7	68n	%E36(7)	R89(1)	MBC4 A4	68n	%E74(7)	R100(1)	MBC1 C7	68n	MBC1 PMA 34 A H	R40(1)	MBC3 B7	68n	-MBC3 B CHANGE COMING A H
R32(1)	MBC3 C7	68n	%E40(14)	R49(1)	MBC4 A3	68n	%E75(14)	R150(1)	MBC1 C7	68n	-MBC1 PMA 34 A H	R4(1)	MBC3 D3	68n	MBC3 CLK A PHASE COMING H
R35(1)	MBC3 C7	68n	%E40(15)	R15(1)	MBC2 B7	68n	-APR2 WR BAD ADR PAR H	R146(1)	MBC1 C7	68n	MBC1 PMA 35 A H	R191(1)	MBC3 A3	68n	MBC3 CORE BUSY H
R206(1)	MBC2 D4	68n	%E40(6)	R106(1)	MBC3 A7	68n	-CCL START MEM H	R145(1)	MBC1 C7	68n	-MBC1 PMA 35 A H	R105(1)	MBC3 C2	68n	-MBC3 FIRST WD ADR SEL H
R27(1)	MBC4 C7	68n	%E41(14)	R113(1)	MBC1 C6	68n	CLK1 MBC H	R210(1)	MBC1 D3	68n	MBC1 PMA HOLD 26 H	R115(1)	MBC3 C2	68n	-MBC3 INH 1ST MB REQ H
R36(1)	MBC4 C6	68n	%E41(2)	R121(1)	MBC2 C5	68n	-CSH2 E CORE RD RQ B H	R101(1)	MBC1 D4	68n	MBC1 PMA HOLD 27 H	R73(1)	MBC3 C4	68n	MBC3 MEM START CLR H
R37(1)	MBC4 C6	68n	%E41(3)	R61(1)	MBC2 D5	68n	CSH2 ONE WORD RD H	R97(1)	MBC1 D4	68n	MBC1 PMA HOLD 28 H	R74(1)	MBC3 B6	68n	-MBC3 MEM START SET H
R185(1)	MBC3 A6	68n	%E42(2)	R69(1)	MBC3 A5	68n	-CSH2 RD PAUSE 2ND HALF H	R95(1)	MBC1 D4	68n	MBC1 PMA HOLD 29 H	R20(1)	MBC3 D1	68n	MBC3 PHASE CHANGE COMING H
R38(1)	MBC5 A6	68n	%E43(2)	R57(1)	MBC1 B4	68n	CSH3 ADR PMA EN H	R96(1)	MBC1 D4	68n	MBC1 PMA HOLD 30 H	R5X(1)	MBC3 A5	68n	MBC3 RD PAUSE 2ND HALF H
R28(1)	MBC3 C7	68n	%E44(15)	R68(1)	MBC2 A5	68n	CSH3 ANY VAL HOLD A H	R139(1)	MBC1 D3	68n	MBC1 PMA HOLD 31 H	R46(1)	MBC4 A1	68n	MBC4 ADR 34 H
R13(1)	MBC3 B4	68n	%E46(15)	R99(1)	MBC1 C2	68n	CSH3 MATCH HOLD 1 IN H	R136(1)	MBC1 D3	68n	MBC1 PMA HOLD 32 H	R168(1)	MBC4 A1	68n	MBC4 ADR 35 H
R31(1)	MBC3 A4	68n	%E46(2)	R98(1)	MBC1 C2	68n	CSH3 MATCH HOLD 2 IN H	R137(1)	MBC1 D3	68n	MBC1 PMA HOLD 33 H	R132(1)	MBC4 C4	68n	MBC4 ANY REQUEST; WIRE OR H
R9(1)	MBC3 C3	68n	%E49(15)	R118(1)	MBC2 C5	68n	-CSH4 CLEAR WR T0 H	R106(1)	MBC1 C2	68n	MBC1 PMA HOLD 34 H	R90(1)	MBC4 C3	68n	-MBC4 ANY RQS LEFT H
R7(1)	MBC3 D2	68n	%E5(2)	R107(1)	MBC3 A2	68n	-CSH4 DATA CLR DONE H	R102(1)	MBC1 C2	68n	MBC1 PMA HOLD 35 H	R153(1)	MBC4 B6	68n	-MBC4 CORE DATA VALID -2 H
R33(1)	MBC4 D7	68n	%E50(14)	R122(1)	MBC2 C5	68n	-CSH4 EBOX T3 H	R79(1)	MBC1 B1	68n	MBC1 RESET H	R85(1)	MBC4 A6	68n	-MBC4 CORE DATA VALID A H
R34(1)	MBC4 D7	68n	%E50(3)	R161(1)	MBC2 D4	68n	CSH4 EBOX WR T4 IN H	R83(1)	MBC1 B1	68n	-MBC1 RESET H	R135(1)	MBC4 A6	68n	-MBC4 CORE RD IN PROG H
R120(1)	MBC4 C7	68n	%E53(3)	R187(1)	MBC3 A7	68n	-CSH5 CHAN RD T5 H	R117(1)	MBC1 B1	68n	-MBC1 WRITE OK H	R192(1)	MBC4 A6	68n	MBC4 CORE RD IN PROG A H
R119(1)	MBC4 C7	68n	%E53(6)	R18(1)	MBC2 C7	68n	-CSH5 CHAN T3 H	R22(1)	MBC1 B2	68n	MBC1 WRITE OK IN A H	R29(1)	MBC4 B3	68n	MBC4 INIT COMP H
R19(1)	MBC2 B4	68n	%E54(15)	R171(1)	MBC2 D4	68n	CSH5 CHAN WR T5 IN H	R23(1)	MBC1 B2	68n	MBC1 WRITE OK IN B H	R82(1)	MBC4 B2	68n	-MBC4 INIT COMP H
R84(1)	MBC3 D4	68n	%E55(2)	R188(1)	MBC3 A7	68n	-CSH5 PAGE REFILL T9 H	R159(1)	MBC2 C1	68n	MBC2 CACHE WR 00 A H	R25(1)	MBC4 C7	68n	MBC4 LAST ACKN H
R76(1)	MBC3 D4	68n	%E55(3)	R208(1)	MBC2 C4	68n	CSH6 CACHE WR IN H	R179(1)	MBC2 C1	68n	MBC2 CACHE WR 09 A H	R72(1)	MBC4 C7	68n	-MBC4 LAST ACKN H
R93(1)	MBC4 B3	68n	%E55(7)	R148(1)	MBC3 B2	68n	-CSH6 CHAN WR CACHE H	R152(1)	MBC2 C1	68n	MBC2 CACHE WR 18 A H	R78(1)	MBC4 C6	68n	MBC4 LAST ACKN SEEN H

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

DATE: 06-AUG-84	ENG: C. A. JENS	DATE: 06-AUG-84	TITLE: MBOX CONTROL TERMINATORS
CHK'D: D. DELLORCO	DATE: 06-AUG-84	BOARD LOCATION: 4AF22	
		SHEET: 2	
FIRST USED ON OPTION/MODEL: MCA25			

SIZE: D	CODE: CS	NUMBER: M857-0-RES	REV: A
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RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL	RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R26(1)	MBC4	C6	68Ω	-MBC4 LAST ACKN SEEN H	R126(1)	MBC6	A1	68Ω	NC
R12(1)	MBC4	D6	68Ω	MBC4 MEM START H	R193(1)	MBC4	A7	68Ω	NC
R71(1)	MBC4	D6	68Ω	-MBC4 MEM START A H	R77(1)	MBC4	C8	68Ω	NXM ACKN H
R70(1)	MBC4	D6	68Ω	-MBC4 MEM START B H	R41(1)	MBC4	B7	68Ω	-NXM DATA VAL H
R130(1)	MBC4	B3	68Ω	MBC4 MEM START RD H	R216(1)	MBC2	D6	68Ω	PAG1 PT 26 B H
R94(1)	MBC4	B3	68Ω	-MBC4 MEM START RD H	R211(1)	MBC1	D3	68Ω	PMA3 PA 26 H
R169(1)	MBC4	D1	68Ω	MBC4 PMA ADR PAR HOLD H	R52(1)	MBC1	B2	68Ω	PMA3 PA 27 H
R91(1)	MBC4	D3	68Ω	MBC4 RQ 0A H	R51(1)	MBC1	B2	68Ω	PMA3 PA 28 H
R86(1)	MBC4	C4	68Ω	MBC4 RQ 0B H	R58(1)	MBC1	B2	68Ω	PMA3 PA 29 H
R172(1)	MBC4	D3	68Ω	MBC4 RQ 1A H	R54(1)	MBC1	B2	68Ω	PMA3 PA 30 H
R175(1)	MBC4	D3	68Ω	MBC4 RQ 2A H	R1(1)	MBC1	A2	68Ω	PMA3 PA 31 H
R173(1)	MBC4	D3	68Ω	MBC4 RQ 3A H	R104(1)	MBC1	C8	68Ω	PMA4 34 B H
R183(1)	MBC5	C7	68Ω	MBC5 CORE BUSY B H	R144(1)	MBC1	C8	68Ω	PMA4 35 B H
R189(1)	MBC5	C7	68Ω	MBC5 DIAG 04 H	R202(1)	MBC4	D2	68Ω	PMA4 ADR PAR H
R190(1)	MBC5	C7	68Ω	MBC5 DIAG 05 H	R2(1)	MBC1	A2	68Ω	PMA4 PA 32 H
R197(1)	MBC5	C7	68Ω	MBC5 DIAG 06 H	R5(1)	MBC1	A2	68Ω	PMA4 PA 33 H
R194(1)	MBC5	B7	68Ω	-MBC5 DIAG READ FUNC 16X H	R212(1)	MBC2	D7	68Ω	-PMA5 SEL 7 H
R141(1)	MBC5	A5	68Ω	MBC5 HOLD MATCH H					
R217(1)	MBC1	B4	68Ω	MBX CSH ADR 26 H					
R147(1)	MBC5	A2	68Ω	-MBX1 CCA ALL PAGES CYC H					
R176(1)	MBC2	D4	68Ω	MBX1 CCA INVAL T4 A H					
R111(1)	MBC5	A3	68Ω	-MBX1 FORCE MATCH EN H					
R103(1)	MBC1	B4	68Ω	MBX1 REFILL ADR EN H					
R17(1)	MBC2	C7	68Ω	-MBX2 CHAN WR CYC H					
R53(1)	MBC1	C2	68Ω	MBX3 REFILL HOLD H					
R81(1)	MBC3	B5	68Ω	-MBX4 CACHE TO MB T2 H					
R184(1)	MBC3	B6	68Ω	-MBX4 CACHE TO MB T4 A H					
R209(1)	MBC2	D4	68Ω	MBX4 WRITEBACK T2 H					
R199(1)	MBC4	D2	68Ω	MBX5 MEM RD RQ IN H					
R116(1)	MBC3	A2	68Ω	-MBX5 MEM TO C EN H					
R203(1)	MBC4	D2	68Ω	MBX5 MEM WR RQ IN H					
R124(1)	MBC4	D5	68Ω	MBX5 RQ 0 IN H					
R125(1)	MBC4	D5	68Ω	MBX5 RQ 1 IN H					
R127(1)	MBC4	D5	68Ω	MBX5 RQ 2 IN H					
R134(1)	MBC4	D5	68Ω	MBX5 RQ 3 IN H					
R163(1)	MBC4	C8	68Ω	MEM ACKN A H					
R162(1)	MBC4	C8	68Ω	MEM ACKN B H					
R45(1)	MBC4	B7	68Ω	-MEM DATA VALID A H					
R43(1)	MBC4	B7	68Ω	-MEM DATA VALID B H					
R42(1)	MBC6	A1	68Ω	NC					

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

D
C
B
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D
C
B
A

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REVISIONS		
CHK	CHANGE NO.	REV

	DRW. <i>D. Dellorco</i> CHK'D D. DELLORCO	DATE 06-AUG-84 DATE 06-AUG-84	ENG. C. A. JENS BOARD LOCATION: 4AF22	DATE 06-AUG-84 SHEET 2 OF 2	TITLE: MBOX CONTROL TERMINATORS
	XTRA:MCA25.M8531>M8572.DRW 23-JUL-84 14:33 NEXT HIGHER ASSEMBLY:			SIZE CODE D CS	NUMBER M857-0-RES REV. A