

**KE8-E extended
arithmetic element
engineering drawings**

PARTS LIST

MADE BY KEN GULICK

DATE 7/28/71

ENG *Rachael H. Wiern*

DATE 8/18/71

CHECKED KEN GULICK

DATE 7/29/71

PROD *R. Peterson*

DATE 9/18/71

SECTION

1

ISSUED SECT.	
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1

ITEM
NO.

DWG NO. / PART NO.

DESCRIPTION

1	E-CS-M834Ø-Ø-1
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DECODER & STEP COUNTER EAE

2	E-CS-M8341-Ø-1
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MULTIPLEXER & TIMING GEN. EAE

3	B-UA-H851-Ø-Ø
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H851 EDGE CONNECTOR

TITLE

EXTENDED ARITH ELEMENT

ASSY NO.	
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D-UA-KE8-E-Ø

SIZE	CODE
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A PL

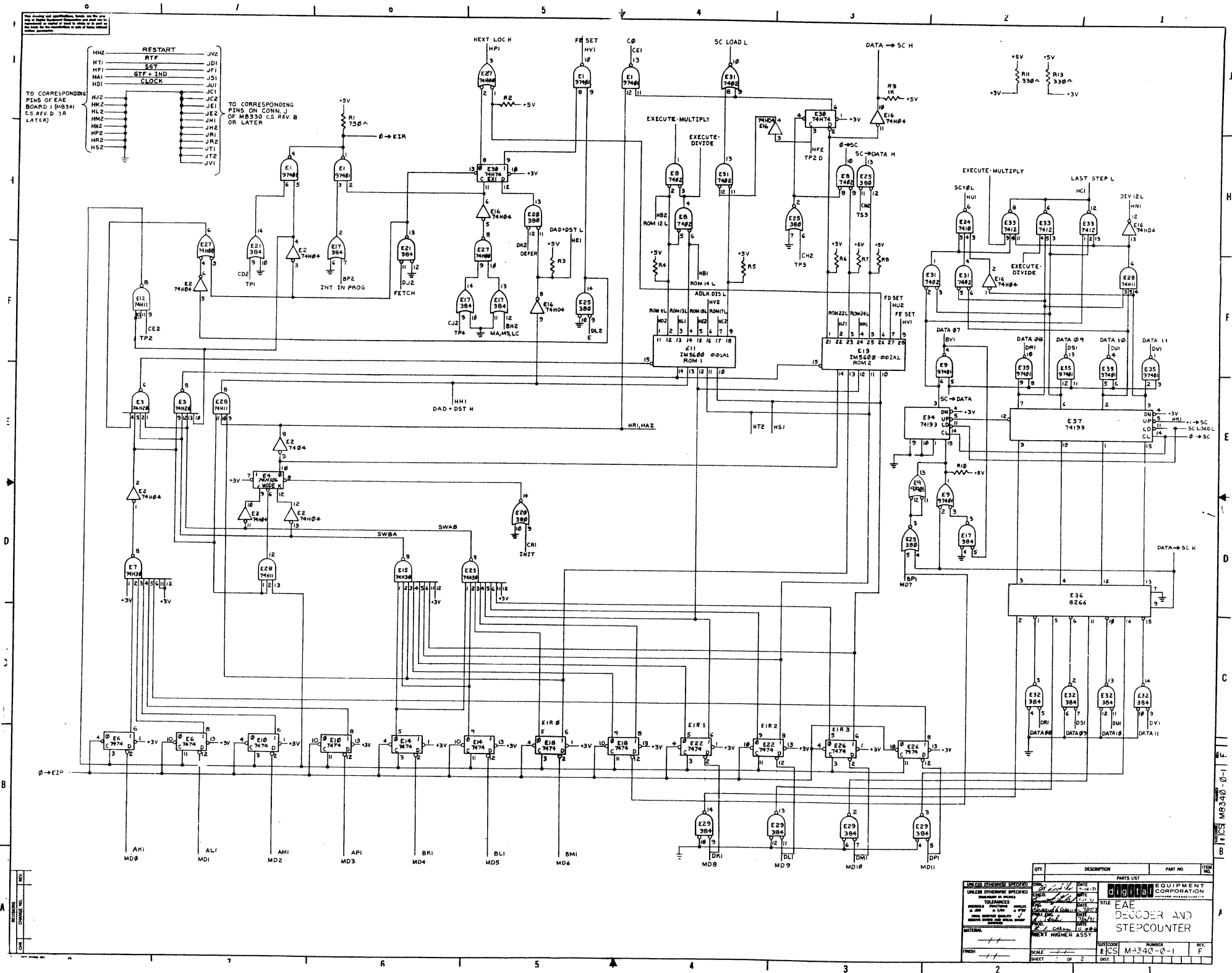
NUMBER

KE8-E-Ø

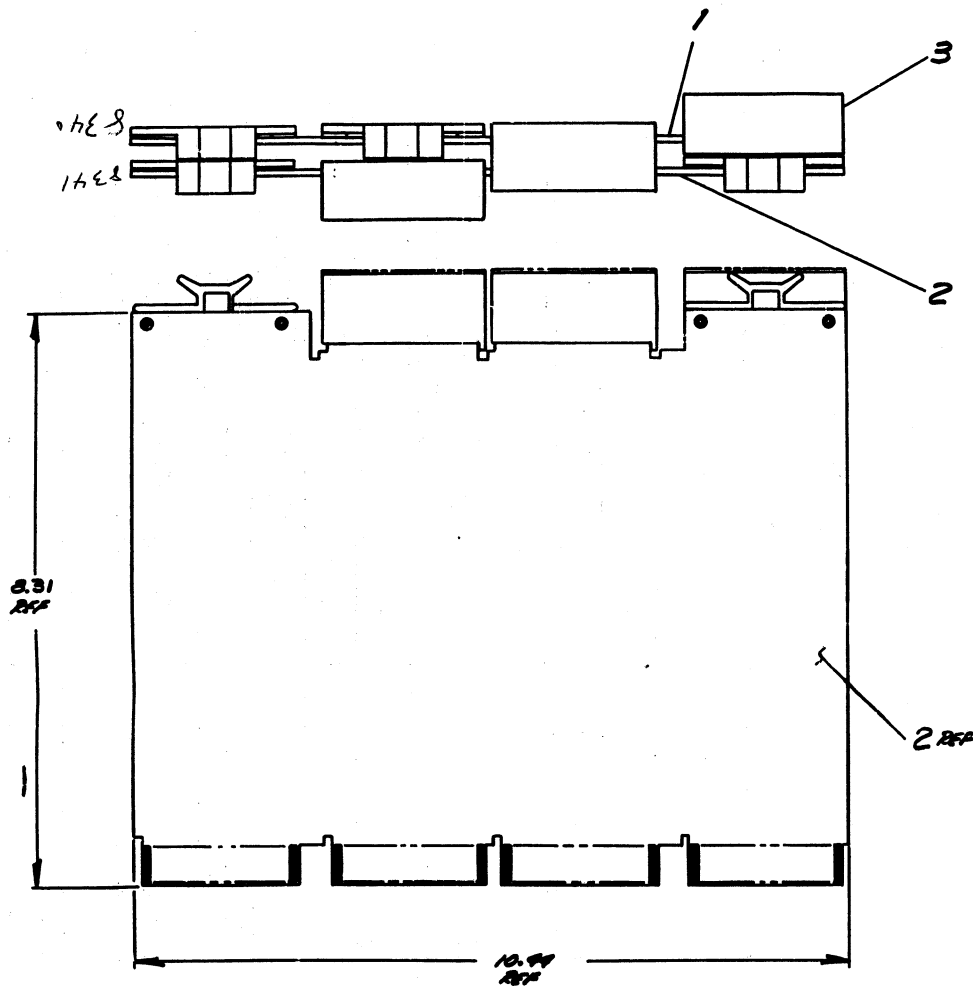
REV.	ECO NO.
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SHEET 1 OF 1

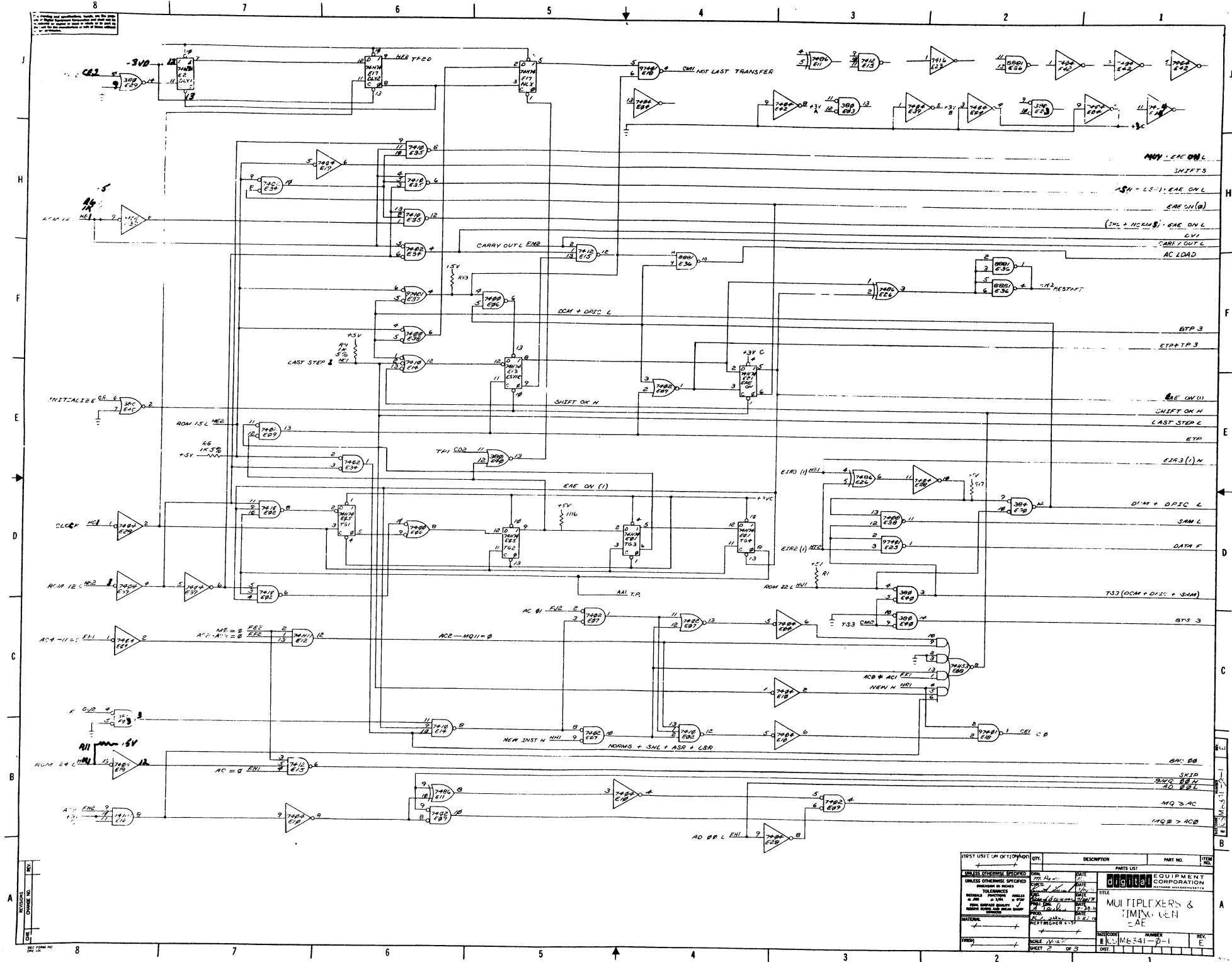
	DIST.	G
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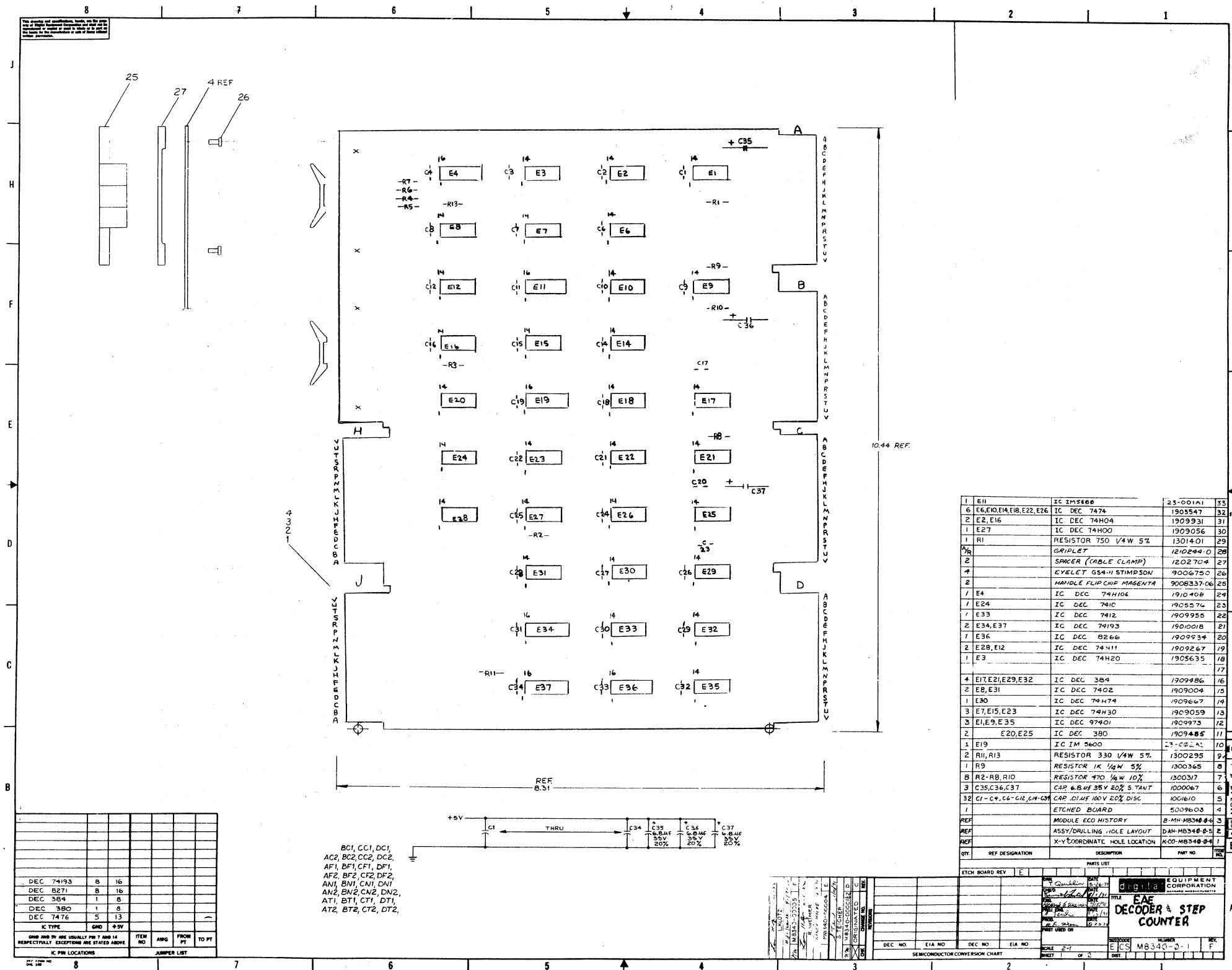


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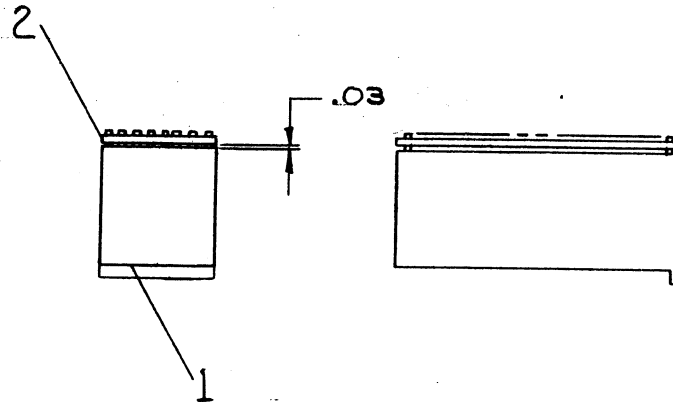
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 8-E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DATE 2/21/71 CHK'D. 1/18/71 ENG. 1/18/71 PROJ. ENG. S. K. K. K. PROJ. K. K. K. K.	DATE 2/21/71 DATE 1/18/71 DATE 1/18/71 DATE 1/18/71 DATE 1/18/71	PARTS LIST	
DECIMALS	ANGLES	TITLE		
.XXX - .005 .XX - .02 .X - .1	± 0° 30'	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓		EXTENDED ARITH ELEMENT		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	SCALE	DUA	KE8-E-Ø	
	SHEET 1 OF 1	DIST.		





1	E11	IC IM5608	23-001A1
6	E6,E10,E1A,E1B,E22,E26	IC DEC 7474	1905547
2	E2,E16	IC DEC 74H04	1909931
1	E27	IC DEC 74H00	1909056
1	R1	RESISTOR 150 1/4W 5%	1301401
1	R1	GRIPLET	1210244-0
2		SPACER (CABLE CLAMP)	1202704
4		EYELET G54-11 STIMPSON	9006750
2		HANDLE FLIP CHIP MAGENTA	9008337-06
1	E4	IC DEC 74H106	1910408
1	E24	IC DEC 7410	1905574
1	E33	IC DEC 7412	1909955
2	E34,E37	IC DEC 74193	1901018
1	E36	IC DEC 82666	1909934
2	E28,E12	IC DEC 74411	1909267
1	E3	IC DEC 74420	1905635
4	E17,E21,E29,E32	IC DEC 384	1909486
1	E8,E31	IC DEC 7402	1909004
1	E30	IC DEC 74474	1909667
3	E7,E15,E33	IC DEC 74H30	1909059
3	E1,E9,E25	IC DEC 97401	1909073
2	E20,E25	IC DEC 380	1909485
1	E19	IC IM 5600	23-002A1
2	R11,R13	RESISTOR 330 1/4W 5%	1300295
1	R9	RESISTOR 1K 1/4W 5%	1300365
8	R2-RB,R10	RESISTOR 170 1/4W 10%	1300371
3	C35,C36,C37	CAP 6.8UF 35V 20% 5.TANT	1000667
32	C1-C9,C4-C12,C14-C34	CAP 0.1UF 100V 20% DISC	1006160
		ETCHED BOARD	5009603-0
REF		MODULE ECO HISTORY	B-MM-MB340-04-3
REF		ASSY/DRILLING HOLE LAYOUT	D-MM-MB340-0-5
REF		X-Y COORDINATE HOLE LOCATION	K-MM-MB340-04-1
QTY	REF DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST			
ETCH BOARD REV	E		
DEC NO	EIA NO	TITLE: EAE DECODER & STEP COUNTER	
CONVERSION CHART	SCALE 2:1	CHECKED: W. HUGHES BY: MS340-0-1	REV.
SHEET 1	OF 2	DATE:	

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REF	MODULE ECO HISTORY	B-MH-H851-0-6	5
REF	ASSY HOLE LAYOUT	C-AH-H851-0-5	4
REF	CIRCUIT SCHEMATIC	B-CS-H851-0-1	3
1	ETCH BOARD	D-IA-5008903-0-0	2
1	CONN BLOCK, 72 PIN	I210152	1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
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PARTS LIST

DRN.	7/22/70
CHK'D.	8/13/70
ENG.	8-13-70
PROJ. ENG.	8-13-70
PROD.	8-13-70
NEXT HIGHER ASSY	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
H851
EDGE CONNECTOR

SIZE CODE	NUMBER	REV.
B UA	H851-0-0	B

SHEET	1	OF	1	DIST.	G														
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FIRST USED ON OPTION/MODEL
H851

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
ANGLES
± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

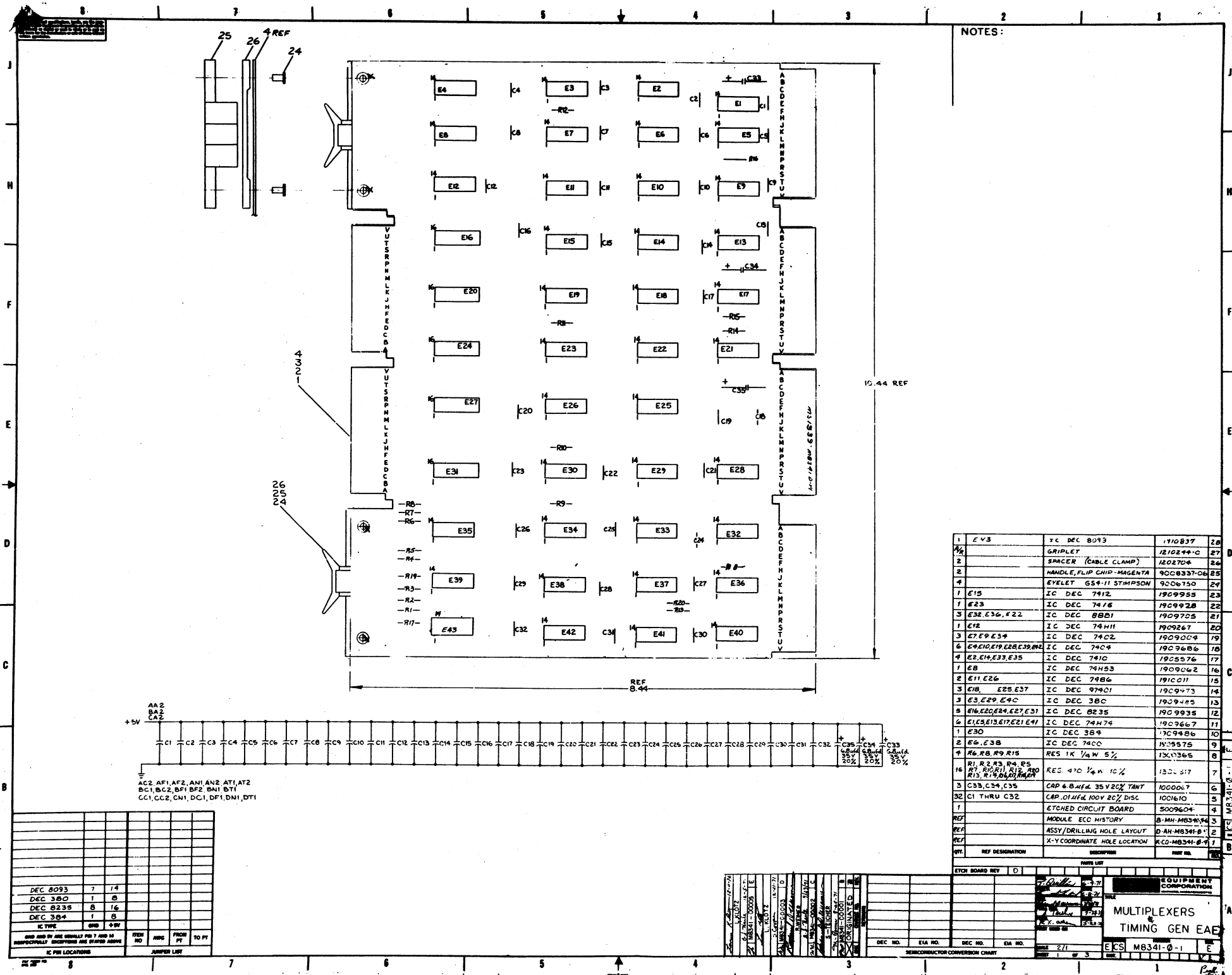
MATERIAL

FINISH

TOLERANCES DECIMALS	
.XXX	= ± .005
.XX	= ± .02
.X	= ± .1

REVISIONS	CHANGE NO.	REV.
CHK	H851-00001	A
P. GARDNER 12-10-70		
P. GARDNER 8-3-72		
P. GARDNER 8-9-72		

DEC FORM NO.
DRB 100



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NOTES:

1. IF ANY CHANGES ARE TO BE MADE TO THIS PRINT FIRST CHECK WITH PURCHASE SPEC'S A-PS-23-001A1 AND A-SP-23-002A1.

ROM 1
ENABLE IF MAJOR STATE = F OR E
EIR 3 → A
EIR 2 → B
EIR 1 → C
EIR 0 → NEW → D
EXECUTE → E

ROM 2
ENABLE IF MAJOR STATE = F
EIR 3 → A
EIR 2 → B
EIR 1 → C
EIR 0 → D
OLD → E

FUNCTION	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	OCTAL
F - NOP	1	1	1	1	1	1	1	1	377
F - ACS + SCL	1	1	1	1	1	1	1	1	377
F - MUY	1	1	1	1	0	0	1	1	371
F - DVI	1	1	1	1	1	1	1	1	377
F - NWI	0	1	1	0	0	0	1	1	143
F - SHL	1	1	1	1	1	1	1	1	377
F - ASR	0	1	1	1	0	0	1	1	171
F - LSR	1	1	1	1	0	0	1	1	371
F - SCA	1	1	1	1	1	1	1	1	377
F - DAD	1	1	1	1	1	1	1	1	371
F - DST	1	1	1	1	1	0	1	1	377
NOP	1	1	1	1	1	1	1	1	377
F - DPSZ	1	1	1	1	1	1	1	1	377
F - DPIC	1	0	0	1	1	0	0	1	231
F - DCM	1	0	0	1	1	0	0	1	231
F - SAM	1	1	0	1	0	0	1	1	331
E - NOP	1	1	1	1	1	1	1	1	377
E - SCL	1	1	1	1	1	1	0	1	376
E - MUY	1	0	1	1	0	1	1	1	267
E - DVI	1	0	1	0	0	0	1	1	241
NOT USED	0	1	1	0	0	0	1	0	X
E - SHL	1	1	1	1	0	1	1	0	142
E - ASR	1	1	1	1	0	1	1	0	366
E - LSR	1	1	1	1	0	1	1	0	366
NOT USED	1	1	0	1	1	0	1	1	X
E - DAD	1	1	1	1	1	1	1	1	331
E - DST	1	1	1	1	1	1	1	1	377
NOT USED	1	1	1	1	1	1	1	1	X
NOT USED									X
NOT USED									X
NOT USED									X

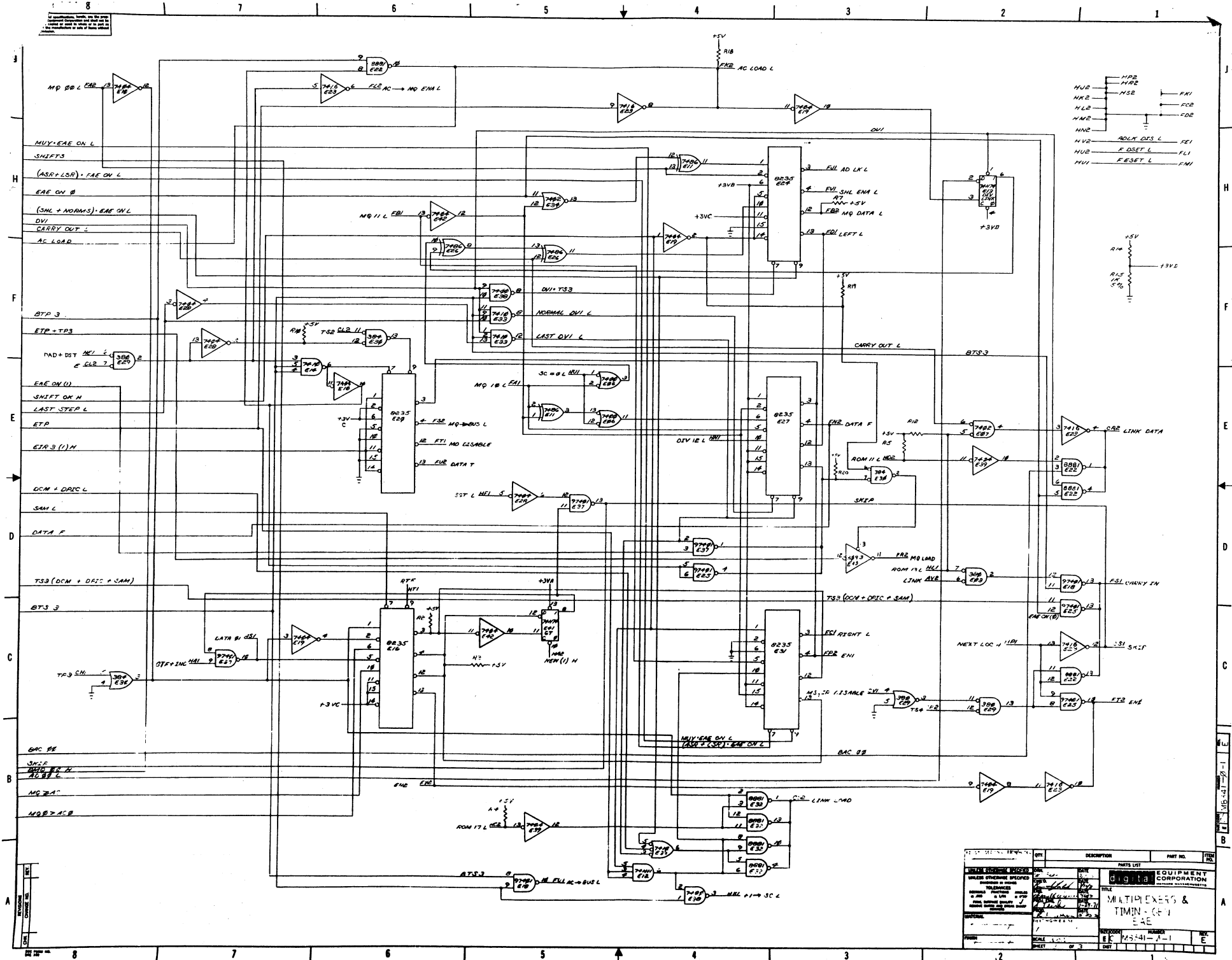
FUNCTION	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	OCTAL
NOP	1	1	1	1	1	1	1	1	377
ACS	1	1	1	1	1	1	1	1	177
NEW MUY	1	1	0	1	1	0	1	1	331
NEW DVI	1	1	0	1	1	0	0	1	331
NWI	1	1	0	1	1	1	1	1	337
SHL	1	1	1	1	1	1	1	1	372
ASR	1	1	1	1	1	0	1	1	372
LSR	1	1	1	1	1	0	1	1	372
SCA	1	1	1	1	0	1	1	1	367
DAD	1	1	1	1	1	0	1	1	371
DST	1	1	1	1	1	0	1	1	371
NOP	1	1	1	1	1	1	1	1	377
DPSZ	1	1	1	0	1	1	1	1	357
DPIC	1	0	1	1	1	1	1	1	277
DCM	1	0	1	1	1	1	1	1	277
SAM	1	0	1	1	1	1	1	1	277
NOP	1	1	1	1	1	1	1	1	377
SCL	1	1	1	1	1	1	0	1	372
OLD MUY	1	1	0	1	1	0	1	1	332
OLD DVI	1	1	0	1	1	0	1	1	332
NWI	1	1	0	1	1	1	1	1	337
SHL	1	1	1	1	1	1	1	1	372
ASR	1	1	1	1	1	0	1	1	372
LSR	1	1	1	1	1	0	1	1	372
SCA	1	1	1	1	0	1	1	1	367
SCA - SCL	1	1	1	1	0	0	1	1	362
SCA - OLD MUY	1	1	0	1	0	0	1	1	322
SCA - OLD DVI	1	1	0	1	0	0	1	1	322
SCA - NWI	1	1	1	1	0	1	1	1	327
SCA - SHL	1	1	1	1	0	1	1	1	362
SCA - ASR	1	1	1	1	0	1	1	1	362
SCA - LSR	1	1	1	1	0	1	1	1	362

B INDICATES ACB → LINK DATA AT TS3
B INDICATES TO SLOW → ADD (NOT MERELY SHIFT)
B INDICATES CARRY COUPLE AT TS3 (L → CARRY IN, CARRY OUT → DATA)
B INDICATES LEFT SHIFT
B INDICATES A SHIFT OPERATION
B DISABLES CPU ADDER LINK GATING
B INDICATES LINK LOAD AT TP3
B INDICATES LOAD SC AT TP2

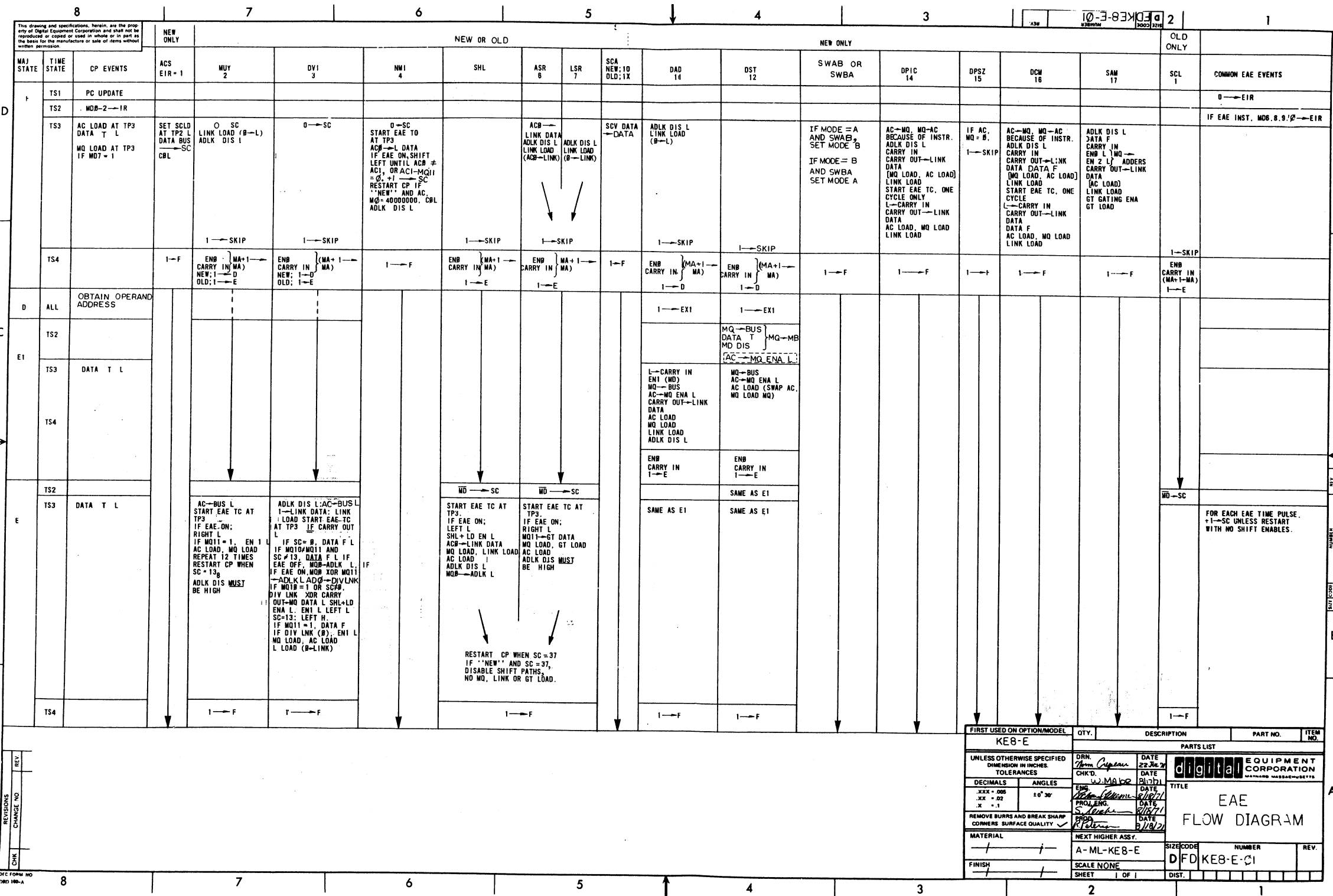
B INDICATES ACS
B INDICATES DCM+SAM+DPIC
B INDICATES B → SC AT F - TP3
B INDICATES DPSZ
B INDICATES SCA
B INDICATES MA → I → MA, I → SKIP
B INDICATES DSET
B INDICATES ESET

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KEB-E				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>John Capron</i>	DATE <i>2/24/71</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DECIMALS ANGLES		CHK'D. <i>W. M. K...</i>	DATE <i>2/24/71</i>	
XXX - 005 XX - 02 X - .1		ENG. <i>John Capron</i>	DATE <i>2/24/71</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. <i>John Capron</i>	DATE <i>2/24/71</i>	
MATERIAL		NEXT HIGHER ASSY.		TITLE ROM ENCODING
FINISH		A-ML-KEB-E		
SHEET 1 OF 1		SCALE NONE		
DIST		NUMBER		REV
D F D K E 3 - E - 02		D F D K E 3 - E - 02		A

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QTY	DESCRIPTION	PART NO.	REV.
1	7410 NAND	7410	1
1	7411 NAND	7411	1
1	7412 NAND	7412	1
1	7413 NAND	7413	1
1	7414 Schmitt trigger	7414	1
1	7415 NAND	7415	1
1	7416 NAND	7416	1
1	7417 NAND	7417	1
1	7418 NAND	7418	1
1	7419 NAND	7419	1
1	7420 NAND	7420	1
1	7421 NAND	7421	1
1	7422 NAND	7422	1
1	7423 NAND	7423	1
1	7424 NAND	7424	1
1	7425 NAND	7425	1
1	7426 NAND	7426	1
1	7427 NAND	7427	1
1	7428 NAND	7428	1
1	7429 NAND	7429	1
1	7430 NAND	7430	1
1	7431 NAND	7431	1
1	7432 NAND	7432	1
1	7433 NAND	7433	1
1	7434 NAND	7434	1
1	7435 NAND	7435	1
1	7436 NAND	7436	1
1	7437 NAND	7437	1
1	7438 NAND	7438	1
1	7439 NAND	7439	1
1	7440 NAND	7440	1
1	7441 NAND	7441	1
1	7442 NAND	7442	1
1	7443 NAND	7443	1
1	7444 NAND	7444	1
1	7445 NAND	7445	1
1	7446 NAND	7446	1
1	7447 NAND	7447	1
1	7448 NAND	7448	1
1	7449 NAND	7449	1
1	7450 NAND	7450	1
1	7451 NAND	7451	1
1	7452 NAND	7452	1
1	7453 NAND	7453	1
1	7454 NAND	7454	1
1	7455 NAND	7455	1
1	7456 NAND	7456	1
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1	7458 NAND	7458	1
1	7459 NAND	7459	1
1	7460 NAND	7460	1
1	7461 NAND	7461	1
1	7462 NAND	7462	1
1	7463 NAND	7463	1
1	7464 NAND	7464	1
1	7465 NAND	7465	1
1	7466 NAND	7466	1
1	7467 NAND	7467	1
1	7468 NAND	7468	1
1	7469 NAND	7469	1
1	7470 NAND	7470	1
1	7471 NAND	7471	1
1	7472 NAND	7472	1
1	7473 NAND	7473	1
1	7474 NAND	7474	1
1	7475 NAND	7475	1
1	7476 NAND	7476	1
1	7477 NAND	7477	1
1	7478 NAND	7478	1
1	7479 NAND	7479	1
1	7480 NAND	7480	1
1	7481 NAND	7481	1
1	7482 NAND	7482	1
1	7483 NAND	7483	1
1	7484 NAND	7484	1
1	7485 NAND	7485	1
1	7486 NAND	7486	1
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1	7488 NAND	7488	1
1	7489 NAND	7489	1
1	7490 NAND	7490	1
1	7491 NAND	7491	1
1	7492 NAND	7492	1
1	7493 NAND	7493	1
1	7494 NAND	7494	1
1	7495 NAND	7495	1
1	7496 NAND	7496	1
1	7497 NAND	7497	1
1	7498 NAND	7498	1
1	7499 NAND	7499	1



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
KE8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST			
DRN. 10m Cupen	DATE 22 Jan 77	digital EQUIPMENT CORPORATION			
CHK'D. W. MAB	DATE 8/17/71	TITLED EAE FLOW DIAGRAM			
ENG. S. MAB	DATE 8/17/71				
PROL. ENG. S. MAB	DATE 8/17/71				
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY	DATE 8/17/71				
MATERIAL	NEXT HIGHER ASSY.				
FINISH	A-ML-KE8-E	SIZE CODE	NUMBER	REV.	
	SCALE NONE	DIFD KE8-E-CI			
	SHEET 1 OF 1	DIST.			

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 2/15/72

TITLE KE8E ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>Louis H. G.</i>	APPD <i>John M. Conway</i>	SIZE A	CODE SP	NUMBER KE8-E-0-4	REV
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DEC 16-(327)-1071-N971
DRA 107

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE KE8E ACCEPTANCE PROCEDURE

- 1.Ø Equipment Required
 - A. PDP-8E or PDP-8M
 - B. M8340
 - C. M8341
 - D. 3-H851's
 - E. Teletype
 - F. Maindec-8E-DØLB-D-PB KE8E Instruction Test 1
 - G. Maindec-8E-DØMB-D-PB KE8E Instruction Test 2
 - H. Maindec-8E-DØRA-D-PB KE8E Extended Memory Exerciser
- 2.Ø Check that the M8340 and M8341 have:
 - A. Proper circuit revision.
 - B. Day code.
- 3.Ø Load and run the following diagnostics, consulting the Diagnostic Document for proper operating procedure.
 - A. Maindec-8E-DØLB for two complete program passes which will be indicated by "KE81" being typed out twice.
 - B. Maindec-8E-DØMB for two complete program passes which will be indicated by "KE8E" being typed out twice.
 - C. Maindec-8E-DØRA for five complete program passes which will be indicated by "KE8EME" being typed out five times. At the beginning of the program, be sure to type the correct value defining the maximum amount of memory.
- 4.Ø Shipping Hardware
 - A. M8340
 - B. M8341
 - C. 3-H8351's
- 5.Ø Shipping Software
 - A. Libkit-8E-KE8E
 - B. KE8E Print Set
 - C. KE8E Maintenance Manual

DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

SIZE A	CODE SP	NUMBER KE8-E-0-4	REV
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DIGITAL EQUIPMENT CORPORATION WORLD-WIDE SALES AND SERVICE

146 Main Street, Maynard, Massachusetts, U.S.A. 01754
Telephone: From Metropolitan Boston: 648-8600 • Elsewhere: (617)-897-5111
TWX: 710-347-0212 Cable: DIGITAL MAYN Telex: 94-8457

UNITED STATES

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CAMBRIDGE/BOSTON
899 Main Street, Cambridge, Massachusetts 02139
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CONNECTICUT
240 Pomeroy Ave., Meriden, Conn 06450
Telephone: (203)-237-8441/7466 TWX: 710-461-0054

MID-ATLANTIC — SOUTHEAST
REGIONAL OFFICE:
U.S. Route 1, Princeton, New Jersey 08540
Telephone: (609)-452-2940 TWX: 510-685-2338
NEW YORK
95 Cedar Lane, Englewood, New Jersey 07631
Telephone: (201)-871-4964, (212)-594-6955, (212)-736-0447
TWX: 710-991-9721
NEW JERSEY
1259 Route 46, Parsippany, New Jersey 07054
Telephone: (201)-335-3300 TWX: 710-987-8319

PRINCETON
U.S. Route 1
Princeton, New Jersey 08540
Telephone: (609)-452-2940 TWX: 510-685-2338
LONG ISLAND
1 Huntington Quadrangle
Suite 1507 Huntington Station, New York 11746
Telephone: (516)-694-4131, (212)-895-8095

PHILADELPHIA
Station Square Three, Paoli, Pennsylvania 19301
Telephone: (215)-647-4900/4410 Telex: 510-668-8395
WASHINGTON
Executive Building
6811 Kenilworth Ave., Riverdale, Maryland 20840
Telephone: (301)-779-1600/752-8797 TWX: 710-826-9662

DURHAM/CHAPEL HILL
2704 Chapel Hill Boulevard
Durham, North Carolina 27707
Telephone: (919)-489-3347 TWX: 510-927-0912
ORLANDO
Suite 130, 7001 Lake Ellenor Drive, Orlando, Florida 32809
Telephone: (305)-851-4450 TWX: 810-850-0180
ATLANTA
2815 Clearview Place, Suite 100,
Atlanta, Georgia 30340
Telephone: (404)-451-3734/3735/3736 TWX: 810-757-4223

INTERNATIONAL

EUROPEAN HEADQUARTERS

Digital Equipment Corporation International Europe
81 Route de l'Aire
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

MID-ATLANTIC — SOUTHEAST (cont.)

KNOXVILLE
6311 Kingston Pike, Suite 21E
Knoxville, Tennessee 37919
Telephone: (615)-588-6571 TWX: 810-583-0123

CENTRAL
REGIONAL OFFICE:
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655
PITTSBURGH
400 Penn Center Boulevard
Pittsburgh, Pennsylvania 15235
Telephone: (412)-243-9404, TWX: 710-797-3657
CHICAGO
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655

ANN ARBOR
230 Huron View Boulevard, Ann Arbor, Michigan 48103
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