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MEMORY UPGRADE
MEMORY UPGRADE (DD ONLY)
MEMORY UPGRADE (PL)
2/4 MB MEMORY OPTION (DD ONLY)
2/4 MB MEMORY OPTION
2/4 MB MEMORY OPTION (PL)
2/4 MB MEMORY OPTION

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MS400-AA
MS400-BA

PRINT SET PART
NUMBER MP-02430-01
REV A1

REVISION HISTORY	DATE	ECO NUMBER	REV.	INITIAL	A	DRN.	PAUL GAGNE	DATE	05-FEB-87	TITLE	digital	MEMORY UPGRADE
						CHK'D	D. HEALY	DATE	19-FEB-87			
						DES. ENG.	L. KIZINA	DATE	19-FEB-87			
						RESP. ENG.	G. LORD	DATE	19-FEB-87			
						FIELD SERVICE	M. RIOPEL	DATE	19-FEB-87			
						TOP DOC.	B-DD-MS400-O-DBU					
						SIZE CODE	NUMBER	REV.				
						B TC	MS400-O-DBU	A				
								SHEET 1 OF 1				

ML01

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	AA A1	BA A1
1	1 B-DD-5416802-0-0	54-16802-AA		MS400-AA 2MB MEM,SURFACE MNT,256K	1	-
2	2 B-DD-5416802-0-0	54-16802-BA		MS400-BA 4MB MEM,SURFACE MNT,256K	-	1
3	3 SEE NOTE	37-00689-25		PKG UNIVERSAL MODULE	1	1

3 NOTE: REFERENCE PACKAGE SPEC, PA-3700689-25

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A		DRN: PAUL GAGNE		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 15-SEP-86		TITLE PARTS LIST		
---	INITIAL	A	[A] AA,BA		CHK'D: D. HEALY		MEMORY UPGRADE		
			[B]		DATE: 25-FEB-87				
			[C]		DES.ENG: L. KIZINA				
			[D]		DATE: 25-FEB-87		DOCUMENT NUMBER		
			[E]				SIZE CODE NUMBER REV		
			[F]		RESP.ENG.: G. LORD				
			[H]		DATE: 25-FEB-87		K PL MS400-0-DBP A		
			[J]						
					MFG.ENG: D. TAYLOR		RELEASE DATE: 25-FEB-87		
					DATE: 25-FEB-87		RELEASE STATUS: RELEASED		
		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
		MS400				K-PL-MS400-0-DBP		MLA0754A.PLS	
								EDIT #	
								13	
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DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS
		5416802-AA	12 MB MEMORY OPTION	1A1 A2
		5416802-BA	14 MB MEMORY OPTION	1A1 A2
D-UA-5416802-0-0	2		UNIT ASSEMBLY	1A
D-UA-5416802-1-0	2		UNIT ASSEMBLY	A
B-CS-5416802-0-0	11		CIRCUIT SCHEMATICS	1A A
K-PL-5416802-0-DBP	3		PARTS LIST	1A A
K-PC-5416802-0-DBC			P.C. DATA BASE	1D A
K-CS-5416802-0-DBX			SCHEMATIC DATA BASE	1A A
		5016801-01	ETCHED CIRCUIT BOARD	1D1 D2
K-DD-5016801-0-0	1		DRAWING DIRECTORY	1A A

NOTES:

REVISIONS

1A A

1R

1E

1V

REVISIONS

1E H E I I

1V I C I N N

1S O I I

1S T I T

1O I N

1O R I O

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DRN: J. CUNNINGHAM

DATE: 10/7/86

CHK'D: L. HAYWOOD

DATE: 10/7/86

DES. ENG.: G. LORD

DATE: 10/7/86

RESP. ENG.: G. LORD

DATE: 10/7/86

MFG. ENG.: D. TAYLOR

DATE: 1/20/86

1111111111

TITLE

2/4 MB MEMORY OPTION

SHEET 1 OF 1

EDIT: 3

DOCUMENT NUMBER

DD FILENAME: 5416802A.DDF

SIZE CODE NUMBER REV

K DD 5416802-0-0 A

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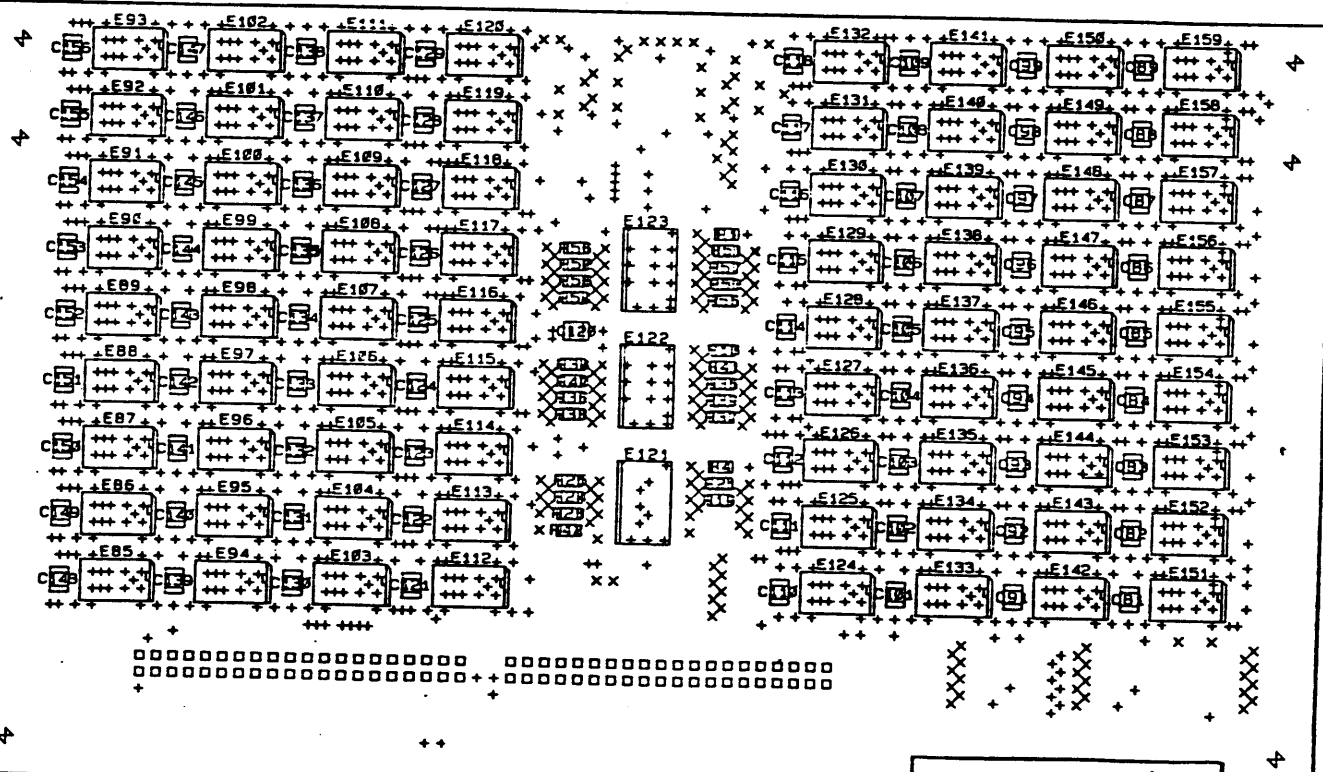
1986 DIGITAL EQUIPMENT CORPORATION

0-0-2089175 UN

SIDE 2 VIEW

600 REF
20320 MM.

460 REF
11684 MM.



REVISION HISTORY		
DATE	ECO NUMBER	REV

						TITLE 2/4 MB MEMORY OPTION		DOCUMENT NUMBER		
						SIZE CODE	NUMBER	REV		
						DUA	5416802-0-0	A		
						SCALE 2 1	SHEET 2	OF 4		

8

6

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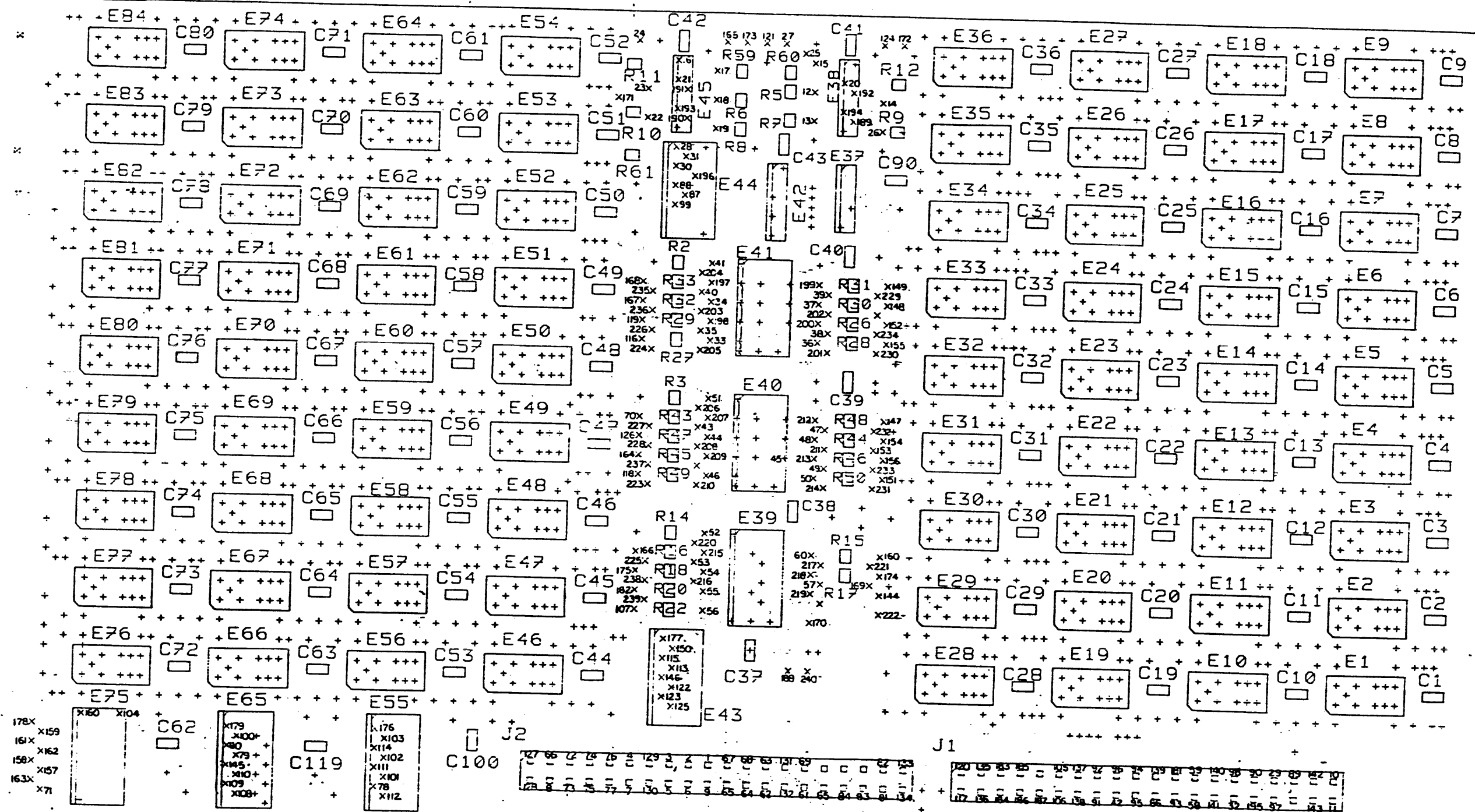
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2

1

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0-0-2099145 DUA 5416802-0



DATE	REV	INIT
11/86	1	INIT

24 MB
MEMORY OPTION

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	5416802-0-0	A
SCALE 4 / 1		SHEET 3 OF 4	

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1965

(DIMENSIONS ARE GIVEN RELATIVE TO "H" MASTER 0)

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
J2.19	6.900	2.400	BDAL17 H	1
J2.17	7.000	2.400	BDAL18 H	2
J2.15	7.100	2.400	BDAL21 H	3
J2.11	7.300	2.400	BDAL23 H	4
J2.16	7.100	2.300	BDAL20 H	5
J2.12	7.000	2.300	BDAL16 H	6
J2.12	7.300	2.300	BDAL22 H	7
J2.20	7.700	2.300	BDAL30 H	8
J1.39	6.900	2.300	BDAL16 H	9
J1.40	5.700	2.300	+57A	10
E38.4	6.450	5.900	E38.4	11
E38.7	6.400	5.750	E38.7	12
E38.12	6.100	4.950	E38.12	13
E38.1	6.450	6.050	E38.1	14
E45.1	7.150	6.050	E45.1	15
E45.15	6.950	6.000	E45.15	16
E45.12	6.950	5.850	E45.12	17
E45.9	6.950	5.700	E45.9	18
E45.3	6.300	5.950	E45.3	19
E45.7	7.300	4.750	E45.7	20
E45.4	7.300	4.900	E45.4	21
R11.2	7.350	6.150	NRAS0 L	22
R2	6.500	6.100	R2	23
E38.9	6.100	5.700	E38.9	24
R7.2	6.600	5.700	R7.2	25
E44.1	7.150	5.600	NRAS31 L	26
J1.33	4.000	2.400	J1.33	27
E44.3	7.150	5.500	E44.3	28
E44.2	7.100	5.550	E44.2	29
J1.30	4.200	2.300	NRAS L	30
E41.9	6.950	4.600	E41.9	31
E41.5	6.950	4.800	E41.5	32
R29.1	7.000	4.650	R29.1	33
E41.12	6.400	4.600	E41.12	34
E41.16	6.400	4.800	E41.16	35
R26.1	6.350	4.800	R26.1	36
R31.1	6.350	4.850	R31.1	37
R33.1	7.000	4.850	R33.1	38
E41.1	6.950	5.000	E41.1	39
J1.18	4.800	2.300	J1.18	40
R41.1	7.000	4.150	R41.1	41
R40.5	6.950	4.100	R40.5	42

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
E40.14	6.450	4.300	E40.14	43
E40.9	6.950	3.900	E40.9	44
E40.1	6.350	4.150	E40.1	45
E40.16	6.350	4.100	E40.16	46
E40.12	6.400	3.900	E40.12	47
E39.1	6.950	3.600	E39.1	48
E39.5	7.400	3.450	E39.5	49
E39.7	6.450	3.400	E39.7	50
E39.9	6.950	3.300	E39.9	51
R17.1	6.350	3.350	R17.1	52
E39.18	4.400	2.300	E39.18	53
J2.30	6.400	2.300	J2.30	54
J2.26	6.600	2.300	J2.26	55
J2.25	6.600	2.400	J2.25	56
J2.24	6.700	2.400	J2.24	57
J2.22	6.800	2.400	J2.22	58
J2.21	7.700	2.400	J2.21	59
J2.23	6.700	2.400	J2.23	60
J2.29	6.400	2.400	J2.29	61
R43.2	7.300	2.400	R43.2	62
E75.9	10.300	2.200	E75.9	63
J2.5	7.600	2.200	J2.5	64
J2.6	7.600	2.300	J2.6	65
J2.7	7.400	2.300	J2.7	66
J2.8	7.500	2.400	J2.8	67
J2.9	7.500	2.300	J2.9	68
J2.10	7.400	2.400	J2.10	69
E55.8	8.600	2.250	E55.8	70
E65.4	9.300	2.400	E65.4	71
J2.38	6.000	2.300	J2.38	72
J2.37	6.100	2.400	J2.37	73
J2.36	6.100	2.400	J2.36	74
J2.31	6.300	2.400	J2.31	75
E44.6	4.600	2.300	E44.6	76
E44.5	7.100	5.350	E44.5	77
J1.35	3.900	2.400	J1.35	78
J1.31	4.100	2.400	J1.31	79
J1.16	4.900	2.300	J1.16	80
J1.15	4.900	2.400	J1.15	81
J1.24	4.500	2.300	J1.24	82

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
E38.13	6.250	5.900	E38.13	192
E45.6	7.150	5.800	E45.6	193
J1.32	6.300	5.800	J1.32	194
E44.4	7.000	5.300	E44.4	195
E123.18	6.950	4.900	E123.18	196
E123.14	6.950	4.700	E123.14	197
E123.3	6.400	4.900	E123.3	198
E123.7	6.400	4.700	E123.7	199
R54.1	6.350	4.50	R54.1	200
R52.1	6.350	4.750	R52.1	201
R57.1	7.000	4.950	R57.1	202
R1.2	7.000	4.550	R1.2	203
R55.1	7.000	4.550	R55.1	204
E122.18	7.000	4.250	E122.18	205
R15.1	6.950	4.050	R15.1	206
E122.14	6.950	4.000	E122.14	207
R37.1	7.000	3.850	R37.1	208
R40.1	6.350	4.050	R40.1	209
E122.3	6.400	4.200	E122.3	210
R38.1	6.350	3.850	R38.1	211
E121.18	6.950	3.500	E121.18	212
R19.1	7.000	3.350	R19.1	213
R25.1	6.400	3.450	R25.1	214
E121.5	6.400	3.400	E121.5	215
R4.2	7.000	3.550	R4.2	216
R25.2	6.100	3.450	R25.2	217
R37.2	6.050	3.200	R37.2	218
R55.2	7.250	3.850	R55.2	219
R21.2	7.250	3.450	R21.2	220
R41.2	7.250	4.650	R41.2	221
R35.2	7.250	4.150	R35.2	222
R54.2	7.250	4.050	R54.2	223
R52.2	6.100	3.950	R52.2	224
R38.2	6.100	3.950	R38.2	225
R34.2	6.100	3.950	R34.2	226
R36.2	6.100	3.950	R36.2	227
R51.2	6.100	4.650	R51.2	228
R57.2	7.250	4.750	R57.2	229
R39.2	7.250	4.950	R39.2	230
E121.14	7.250	3.350	E121.14	231
E121.12	6.400	2.900	E121.12	232

2/4 MB
MEMORY OPTION

DOCUMENT NUMBER		REV
DUA	5416802-0-0	A
SCALE	1/1	SHEET 4 OF 4

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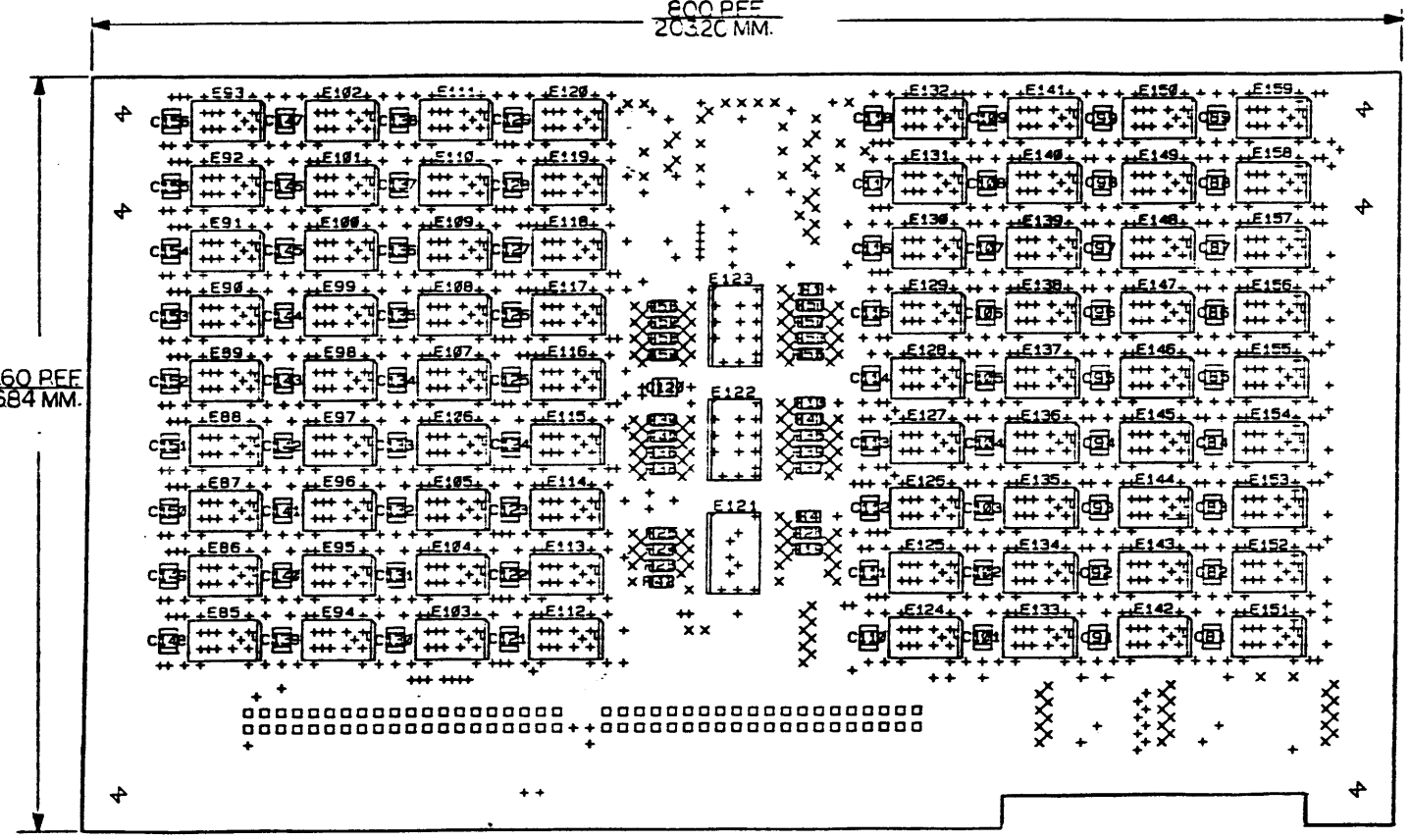
DEC DIGITAL EQUIPMENT CORPORATION

0-1-206919 (REV. 12-71)

SIDE 2 VIEW

ECO REF
203.20 MM.

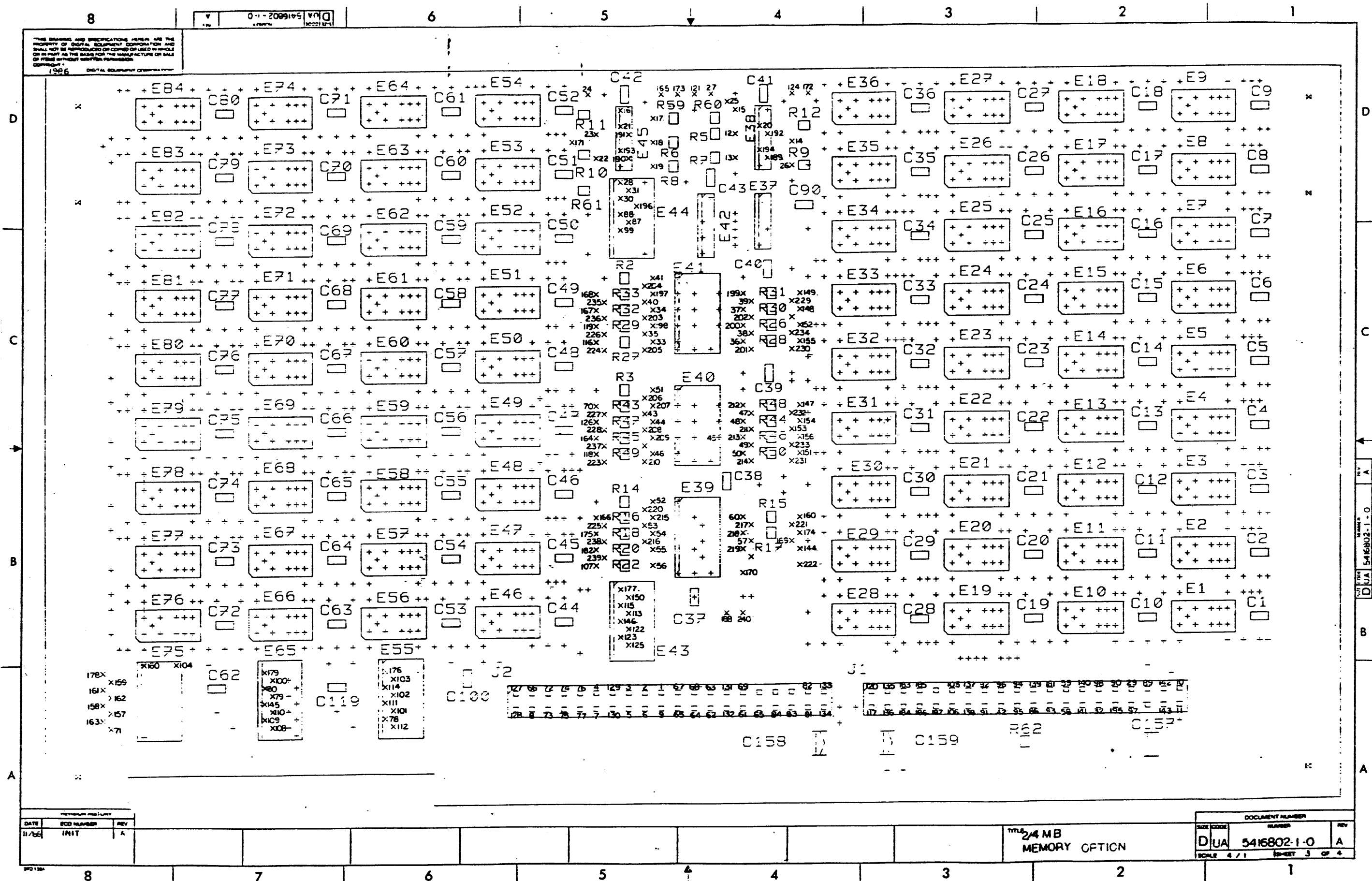
460 REF
11684 MM.



REVISION HISTORY		
DATE	ECO NUMBER	REV
10-71	INIT	A

TITLE 2/4 MB
MEMORY OPTION

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	5416802-1-0	A
SCALE 2/1		SHEET 2 OF 3



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V

0-1-2099179

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(DIMENSIONS ARE GIVEN RELATIVE TO "H" MASTER 0)

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
J2.19	6.900	2.400	BDAL17 H	1
J2.17	7.000	2.400	BDAL19 H	2
J2.15	7.100	2.400	BDAL21 H	3
J2.11	7.300	2.400	BDAL23 H	4
J2.16	7.100	2.300	BDAL20 H	5
J2.18	7.000	2.300	BDAL18 H	6
J2.12	7.300	2.300	BDAL22 H	7
J2.4	7.700	2.300	BDAL30 H	8
J2.20	6.900	2.300	BDAL16 H	9
J1.39	3.700	2.400	-5VA	10
J1.40	3.700	2.300	-5VA	11
E38.4	6.450	5.900	E38.4	12
E38.7	6.400	5.750	E38.7	13
E38.12	6.100	5.450	E38.12	14
E38.1	6.450	5.050	E38.1	15
E45.1	7.150	6.050	E45.1	16
E45.15	6.950	6.000	E45.15	17
E45.12	6.950	5.850	E45.12	18
E45.9	6.950	5.700	E45.9	19
E38.3	6.300	5.950	E38.3	20
E45.3	7.150	5.950	E45.3	21
E45.7	7.300	5.750	E45.7	22
E45.4	7.300	5.900	E45.4	23
R11.2	7.350	6.150	NRAS40 L	24
R2	6.500	6.100	R2	25
E38.9	6.100	5.700	E38.9	26
R7.2	6.600	6.150	NRAS31 L	27
E44.1	7.150	5.600	E44.1	28
J1.33	4.000	4.000	NRAS4 H	29
E44.1	7.150	5.500	NRAS4 H	30
E44.2	7.100	5.550	E44.2	31
J1.30	4.200	2.300	ENAS L	32
E41.9	6.950	4.600	E41.9	33
E41.5	6.950	4.600	E41.5	34
R29.1	7.000	4.650	R29.1	35
E41.12	6.400	4.600	E41.12	36
E41.16	6.400	4.800	E41.16	37
R26.1	6.350	4.650	R26.1	38
R31.1	6.350	4.850	R31.1	39
R31.1	7.000	4.850	R31.1	40
E41.1	6.950	5.000	E41.1	41
J1.18	4.800	2.300	MEMAD02 H	42
R43.1	7.000	4.150	R43.1	43
E40.5	6.950	4.100	E40.5	44

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
E40.14	6.950	4.200	E40.14	45
E40.9	6.950	3.900	E40.9	46
NR4.1	6.350	4.150	NR4.1	47
E40.16	6.400	4.100	E40.16	48
NR4.1	6.350	4.150	NR4.1	49
NR4.12	6.400	3.900	NR4.12	50
E40.1	6.950	4.300	E40.1	51
E39.1	6.950	3.600	E39.1	52
R15.1	7.000	3.450	R15.1	53
E39.5	6.950	3.450	E39.5	54
E39.7	6.950	3.300	E39.7	55
E39.4	6.950	3.200	E39.4	56
R17.1	6.350	3.350	R17.1	57
J1.26	4.400	2.300	LASO L	58
J1.25	4.400	2.400	CAS1 L	59
E39.10	6.400	3.500	E39.10	60
J2.30	6.400	2.300	BDAL08 H	61
J2.26	6.600	2.300	BDAL10 H	62
J2.25	6.600	2.400	BDAL11 H	63
J2.24	6.700	2.300	BDAL12 H	64
J2.22	6.800	2.300	BDAL14 H	65
J2.5	7.700	2.400	BDAL31 H	66
J2.21	6.800	2.400	BDAL15 H	67
J2.23	6.700	2.400	BDAL13 H	68
J2.29	6.400	2.400	BDAL29 H	69
NR4.2	7.300	4.200	NR4.2	70
E75.4	10.300	2.200	MCAL15 H	71
J2.5	7.600	2.400	BDAL29 H	72
J2.6	7.600	2.300	BDAL28 H	73
J2.7	7.500	2.400	BDAL27 H	74
J2.8	7.500	2.300	BDAL26 H	75
J2.9	7.400	2.400	BDAL25 H	76
J2.10	7.400	2.300	BDAL24 H	77
E75.8	8.600	2.250	BDAL06 H	78
E65.5	9.300	2.400	BDAL03 H	79
E65.4	9.350	2.450	BDAL02 H	80
J2.38	6.000	2.300	BDAL00 H	81
J2.37	6.000	2.400	BDAL01 H	82
J2.36	6.100	2.300	BDAL02 H	83
J2.35	6.100	2.400	BDAL06 H	84
J2.31	6.300	2.400	BDAL07 H	85
J1.22	4.600	2.300	J1.22	86
E44.5	7.100	5.350	E44.5	87
E44.5	7.150	5.400	E44.5	88
J1.35	3.900	2.400	YDIE L	89
J1.31	4.100	2.400	SRAS L	90
J1.16	4.900	2.300	MEMAD04 H	91
J1.15	4.900	2.400	MEMAD05 H	92
J1.24	4.500	2.300	CAS2 L	93

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
J1.19	8.700	2.400	MEMAD01 H	94
J1.20	4.700	2.300	MEMAD00 H	95
J1.17	4.800	2.400	MEMAD03 H	96
J1.34	4.300	2.300	VAS L	97
J1.29	4.200	2.400	MELE L	98
E44.7	7.150	5.300	MELE L	99
E55.1	9.300	2.500	BDAL01 H	100
E55.7	8.550	2.300	BDAL29 H	101
E55.5	8.450	2.400	BDAL27 H	102
E55.3	8.450	2.500	BDAL25 H	103
E75.19	4.900	2.600	E75.19	104
J1.11	5.100	2.400	MEMAD07 H	105
J1.12	5.100	2.300	MEMAD06 H	106
R22.2	7.300	3.200	MCAS03 L	107
E65.9	9.300	2.200	BDAL07 H	108
E65.4	9.350	2.250	BDAL06 H	109
R65.7	9.300	2.300	BDAL05 H	110
E55.6	8.600	2.350	BDAL28 H	111
E55.9	8.550	2.200	BDAL31 H	112
E43.5	7.100	2.900	BDAL19 H	113
E55.4	8.600	2.400	BDAL26 H	114
E43.1	7.150	2.950	BDAL18 H	115
R27.2	7.300	4.600	BDAD21 H	116
J1.2	5.600	2.300	-5VB	117
NR4.2	7.500	3.900	BNAD25 H	118
R29.2	7.300	4.700	BNAD22 H	119
J1.1	5.600	2.400	-5VC	120
R5.2	6.700	6.150	MCAS4 L	121
R43.7	7.100	2.800	BDAL21 H	122
E43.8	7.150	2.750	BDAL22 H	123
R9.2	6.100	6.150	NRAS21 L	124
E43.9	7.100	2.700	BDAL23 H	125
R43.2	7.300	4.100	BDAD24 H	126
J2.1	7.800	2.400	GND	127
J2.2	7.800	2.300	GND	128
J2.13	7.200	2.400	GND	129
J2.14	7.200	2.300	GND	130
J2.27	6.500	2.400	GND	131
J2.28	6.500	2.300	GND	132
J2.39	5.900	2.400	GND	133
J2.40	5.900	2.300	GND	134
J1.3	5.500	2.400	GND	135
J1.4	5.500	2.300	GND	136
J1.13	5.000	2.400	GND	137
J1.14	5.000	2.300	GND	138
J1.21	4.600	2.400	GND	139
J1.27	4.300	2.400	GND	140
J1.28	4.300	2.300	GND	141
J1.37	3.800	2.400	GND	142

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
J1.38	3.800	2.300	GND	143
R23.2	6.050	3.300	MCAS12 L	144
E65.6	9.350	2.350	BDAL04 H	145
E43.6	7.150	2.850	BDAL20 H	146
R4.82	6.050	4.200	BNAD14 H	147
R30.2	6.050	4.200	BNAD13 H	148
R31.2	6.050	4.900	BNAD10 H	149
E43.3	7.100	3.000	BDAL17 H	150
R26.2	6.050	3.900	BDAD16 H	151
R26.2	6.050	4.700	BNAD11 H	152
R40.2	6.100	4.050	BNAD37 H	153
R44.2	6.050	4.100	BNAD17 H	154
R28.2	6.050	4.600	BNAD12 H	155
R46.2	6.050	4.000	BNAD15 H	156
E75.7	10.300	2.300	BDAL13 H	157
E75.6	10.350	2.350	BDAL12 H	158
E75.3	10.300	2.500	BDAL09 H	159
R15.2	6.050	3.500	BNAD28 H	160
E75.4	10.350	2.450	BDAL10 H	161
E75.5	10.300	2.400	BDAL11 H	162
E75.8	10.350	2.250	BDAL14 H	163
R45.2	7.300	4.000	BNAD26 H	164
R8.2	6.900	6.150	NRAS20 L	165
R16.2	7.300	3.500	MCAS00 L	166
R32.2	7.300	4.800	BNAD20 H	167
R33.2	7.300	4.900	BNAD23 H	168
R24.2	6.100	3.350	MCAS11 L	169
E39.12	6.400	3.150	BNAD10 L	170
R10.2	7.450	5.850	BNAD30 L	171
R12.2	6.000	6.150	NRAS11 L	172
R6.2	6.800	6.150	NRAS10 L	173
R17.2	6.050	3.400	BNAD18 H	174
R18.2	7.300	3.400	MCAS01 L	175
E55.2	8.600	2.550	BDAL24 H	176
E43.2	7.150	3.050	BDAL16 H	177
E75.2	10.350	2.550	BDAL08 H	178
E65.2	9.350	2.550	BDAL00 H	179
E75.1	10.100	2.600	BNAD17 L	180
J1.23	4.500	2.400	CAS3 L	181
R20.2	7.300	3.300	MCAS02 L	182
J1.5	5.400	2.400	PRIT3 H	183
J1.6	5.400	2.300	PRIT2 H	184
J1.7	5.300	2.400	PRIT1 H	185
J1.3	5.300	2.300	PRIT0 H	186
R1.10	5.200	2.300	MEMAD08 H	187
E39.14	6.400	2.900	BNAD20 L	188
E38.10	6.250	5.750	E38.10	189
E45.10	6.100	5.750	E45.10	190
E45.13	7.100	5.900	E45.13	191

ASSOCIATED PIN ID	I	I	SIGNAL NAME	LOCATION CODE
E38.13	6.250	5.900	E38.13	192
R45.6	7.150	5.800	E45.6	193
E38.6	6.300	5.800	E38.6	194
J1.32	4.100	2.300	MELE H	195
E44.4	7.050	5.450	MELE H	196
E123.18	6.950	4.900	E123.18	197
E123.14	6.950	4.700	E123.14	198
E123.3	6.400	4.900	E123.3	199
E123.7	6.400	4.700	E123.7	200
R54.1	6.350	4.50	R54.1	201
R52.1	6.350	4.750	R52.1	202
R57.1	7.000	4.750	R57.1	203
R1.2	7.000	4.950	R1.2	204
R55.1	7.000	4.550	R55.1	205
R13.2	7.000	4.250	R13.2	206
E122.18	6.950	4.200	E122.18	207
R35.1	7.000	4.050	R35.1	208
E122.14	6.950	4.000	E122.14	209
R37.1	7.000	3.950	R37.1	210
R40.1	6.350	4.050	R40.1	211
E122.3	6.400	4.200	E122.3	212
E122.7	6.400	4.00	E122.7	213
R34.1	6.350	3.850	R34.1	214
E121.18	6.950	3.500	E121.18	215
R19.1	7.000	3.350	R19.1	216
R25.1	6.350	3.450	R25.1	217
E121.5	6.400	3.400	E121.5	218
E121.7	6.400	3.300	E121.7	219
R4.2	7.000	3.550	R4.2	220
R25.2	6.100	3.450	MCAS10 L	221
R42.2	6.050	3.200	MCAS13 L	222
R37.2	7.250	3.850	BNAD45 H	223
R55.2	7.250	4.550	BNAD41 H	224
R21.2	7.250	3.450	BNAD48 H	225
R53.2	7.250	4.650	BNAD42 H	226
R41.2	7.250	4.150	BNAD47 H	227
R35.2	7.250	4.050	BNAD44 H	228
R54.2	6.100	4.850	BNAD30 H	229
R52.2	6.100	4.550	BNAD32 H	230
R38.2	6.100	3.850	BNAD36 H	231
R34.2	6.100	4.150	BNAD34 H	232
R36.2	6.100	3.950	BNAD35 H	233
R58.2	6.100	4.650	BNAD71 H	234
R51.2	7.250	4.850	BNAD43 H	235
R37.2	7.250	4.750	BNAD40 H	236
R39.2	7.250	3.950	BNAD56 H	237
R20.2	7.250	3.750	BNAD38 H	238
E121.14	7.250	3.250	BNAD40 L	239
E121.12	6.400	2.900	BNAD30 L	240

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
						AF A2	AH A2	AP A2	BF A2	
1	1	D-40-5016001-0-0	50-16001-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		13-27953-01		0.22 MFD 50V +/-20% 250 CE	-	-	-	156	C1-C156
			CONT			83	83	83	-	C1-C30,C90,C100,C119
3	3		10-24455-13		10 MFD 15V +/-10% CHI	3	3	3	3	C157-C159
4	4		12-19055-05		CONN,P+S 40POS(2X20)	2	2	2	2	J1,J2
5	5		13-23325-11		27.0 .25 W 5.0 % CHIP	-	-	-	53	R5-R12,R15-R58,R62
			CONT			30	30	30	-	R5-R12,R15-R18,R20,R22,R26-R33, CONT R43-R50
6	6		13-23328-01		100.0 .25 W 1.0 % CHIP	-	-	-	9	R1-R4,R13,R14,R59-R61
			CONT			6	6	6	-	R2,R3,R14,R59-R61
7	7		19-20441-02		74F245 TRANSCEIVER,BI-DIREC	4	4	4	4	E43,E55,E65,E75
8	8		19-20572-02		74F244 BUFFER/LINE DRIVER,0	-	-	-	6	E39-E41,E121-E123
			CONT			3	3	3	-	E39-E41
9	9		19-21010-03		74F373 OCTAL TRANSPARENT LA	1	1	1	1	E44
10	10		19-21312-02		74F32 OR GATE,QUAD,2-IN	1	1	1	1	E37
11	11		19-21316-02		74F138D DECODER/DEMUX,10F8,S	1	1	1	1	E42
12	12		19-21330-02		74F257 DATA SEL/MUX,QUAD 2T	2	2	2	2	E38,E45
13	13		21-21413-22		41256 RAM 256KX1,DYNAMIC M	-	72	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84
14	14		21-21414-22		256KX1,DYNAMIC 150NS	-	-	-	144	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
			CONT			72	-	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84
15	15		21-22422-22		256KX1 MOS RAM 150NS 1	-	-	72	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84

- 1 GEN: 5416802-AA IS THE PRIMARY VARIATION OF THE 2MB MODULE.
2 GEN: 5416802-BA IS THE PRIMARY VARIATION OF THE 4 MB MODULE
3 GEN: 5416802-AH IS A MODULE USING NEC 256K PLCC DRAMS
4 GEN: 5416802-AP IS A MODULE USING MITSUBISHI 256K PLCC DRAMS

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF 5		DRN: J. CUNNINGHAM		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 31-JUL-85		TITLE PARTS LIST		
INITIAL		A	[CA] AF,AH,AP,BF	[CM]	CHK'D: D. DROZD		2 / 4 MB MEMORY OPTION		
			[CB] BH,BP	[CN]	DATE: 31-JUL-85				
			[CC]	[CP]	DES.ENG: G. LORD				
			[CD]	[CQ]	DATE: 31-JUL-85		DOCUMENT NUMBER		
			[CE]	[CR]			SIZE CODE NUMBER REV		
			[CF]	[CS]	RESP.ENG.: G. LORD				
			[CH]	[CT]	DATE: 27-JAN-86		K PL 5416802-0-DBP A		
			[CJ]	[CV]					
			[CK]	[CW]	MFG.ENG: D. TAYLOR		RELEASE DATE: 04-FEB-87		
			[CL]	[CY]	DATE: 08-AUG-86		RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5416802		D-UA-5416802-2-0		B-DD-5416802-0-0		GH057A.PLS		38	
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PARTS LIST

SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY AF A2	PER AH A2	VAR/REV AP A2	BF A2	REFERENCE DESIGNATORS
------	------	--------------	-------------	------------	-------------	-----------------	-----------------	---------------------	----------	-----------------------

5	GEN:	5416802-0H	IS A MODULE USING NEC 256K PLCC DRAMS							
6	GEN:	5416802-3P	IS A MODULE USING MITSUBISHI 256K PLCC DRAMS							
7	GEN:	5416802-AF	IS A MODULE USING HITACHI 256K PLCC DRAMS.							
8	GEN:	5416802-3F	IS A MODULE USING HITACHI 256K DRAMS.							

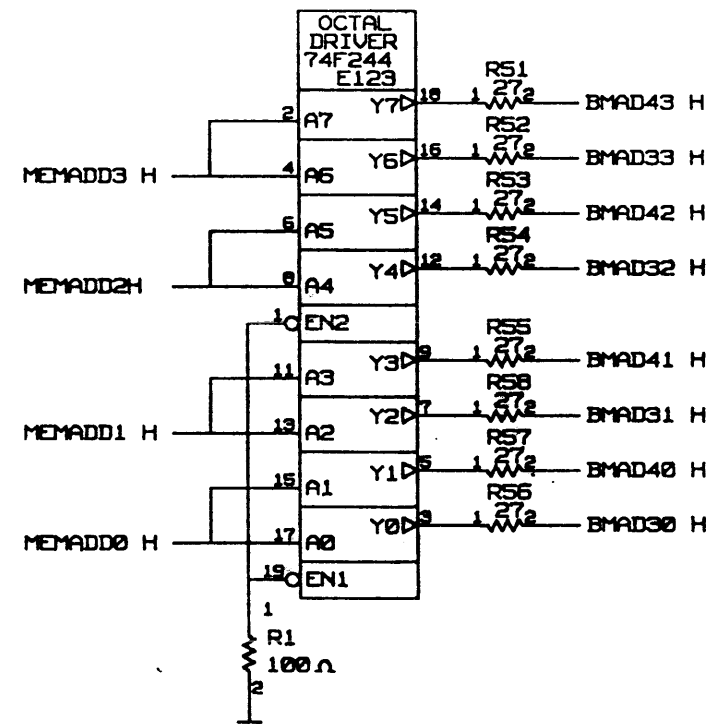
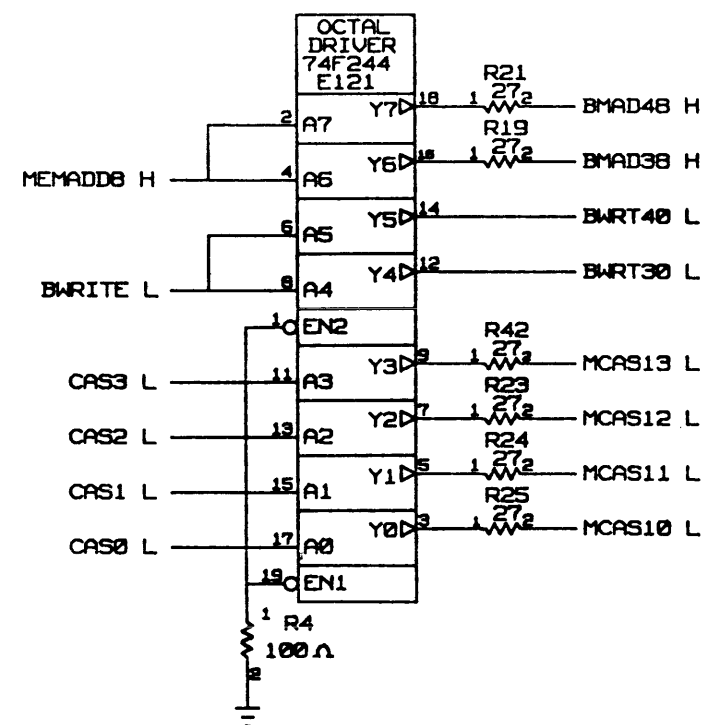
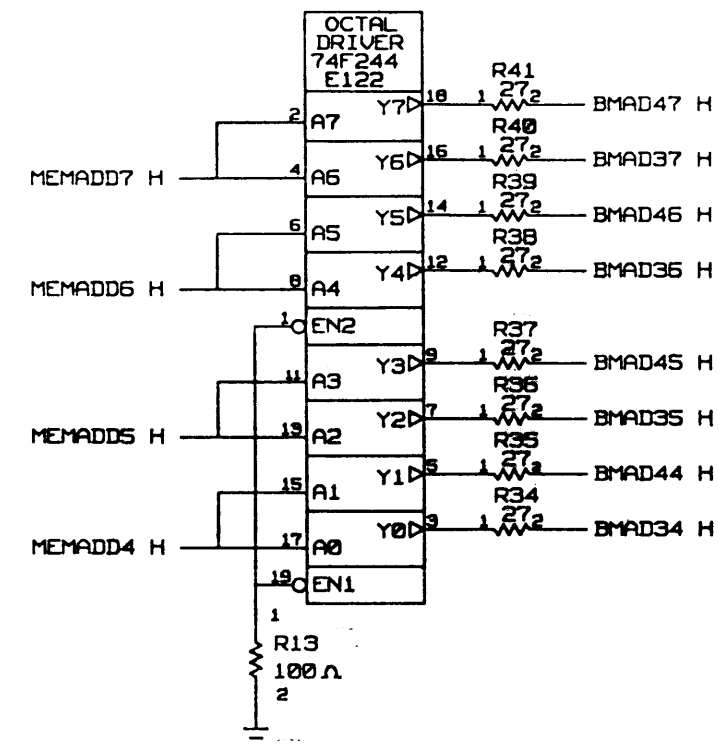
D	I	G	I	T	A	L	TITLE	2 / 4 MB MEMORY OPTION	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5416802-0-DBP	A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
						2H A2	3P A2	
1	1	D-DD-5416801-0-0	50-16801-01		CIRCUIT DRILL AND ETCH	1	1	
2	2		10-27953-01		0.22 MFD 50V +/-20% 25U CE	156	156	C1-C156
3	3		10-24455-13		10 MFD 15V +/-10% CHI	3	3	C157-C159
4	4		12-19065-05		CONN,P+S 40POS(2X20)	2	2	J1,J2
5	5		13-23825-11		27.0 .25 W 5.0 % CHIP	53	53	R5-R12,R15-R58,R62
6	6		13-23823-01		100.0 .25 W 1.0 % CHIP	9	9	R1-R4,R13,R14,R59-R61
7	7		19-20441-02		74F245 TRANSCEIVER,BI-DIREC	4	4	E43,E55,E65,E75
8	8		19-20572-02		74F244 BUFFER/LINE DRIVER,0	6	6	E39-E41,E121-E123
9	9		19-21010-03		74F373 OCTAL TRANSPARENT LA	1	1	E44
10	10		19-21312-02		74F32 OR GATE,QUAD,2-IN	1	1	E37
11	11		19-21316-02		74F138D DECODER/DEMUX,10F8,S	1	1	E42
12	12		19-21330-02		74F257 DATA SEL/MUX,QUAD 2T	2	2	E38,E45
13	13		21-21413-22		41256 RAM 256KX1,DYNAMIC M	144	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
14	14		21-21414-22		256KX1,DYNAMIC 150NS	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
15	15		21-22422-22		256KX1 MOS RAM 150NS 1	-	144	

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5 GEN: 5416802-BH IS A MODULE USING NEC 256K PLCC DRAMS
6 GEN: 5416802-BP IS A MODULE USING MITSUBISHI 256K PLCC DRAMS
7 GEN: 5416802-AF IS A MODULE USING HITACHI 256K PLCC DRAMS.
8 GEN: 5416802-BF IS A MODULE USING HITACHI 256K DRAMS.

REVISION HISTORY		KPL MODULE FORMAT		SECTION 8 OF 8		DRN: J. CUNNINGHAM	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 31-JUL-85		D I G I T A L
INITIAL		A	[A] AF,AH,AP,BF	[M]	CHK'D: D. DROZD	TITLE PARTS LIST	
			[B] BH,BP	[N]	DATE: 31-JUL-85	2 / 4 MB MEMORY OPTION	
			[C]	[P]	DES.ENG: G. LORD		
			[D]	[Q]	DATE: 31-JUL-85		
			[E]	[R]	RESP.ENG.: G. LORD	DOCUMENT NUMBER	
			[F]	[S]	DATE: 27-JAN-86	SIZE	CODE
			[H]	[T]	MFG.ENG: D. TAYLOR	K	PL
			[J]	[V]	DATE: 08-AUG-86	5416802-0-DBP	
			[K]	[W]		RELEASE DATE: 04-FEB-87	
			[L]	[Y]		RELEASE STATUS: RELEASED	
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
5416802		D-UA-5416802-2-0		B-DD-5416802-0-0		GH057A.PLS	
						EDIT #	
						38	
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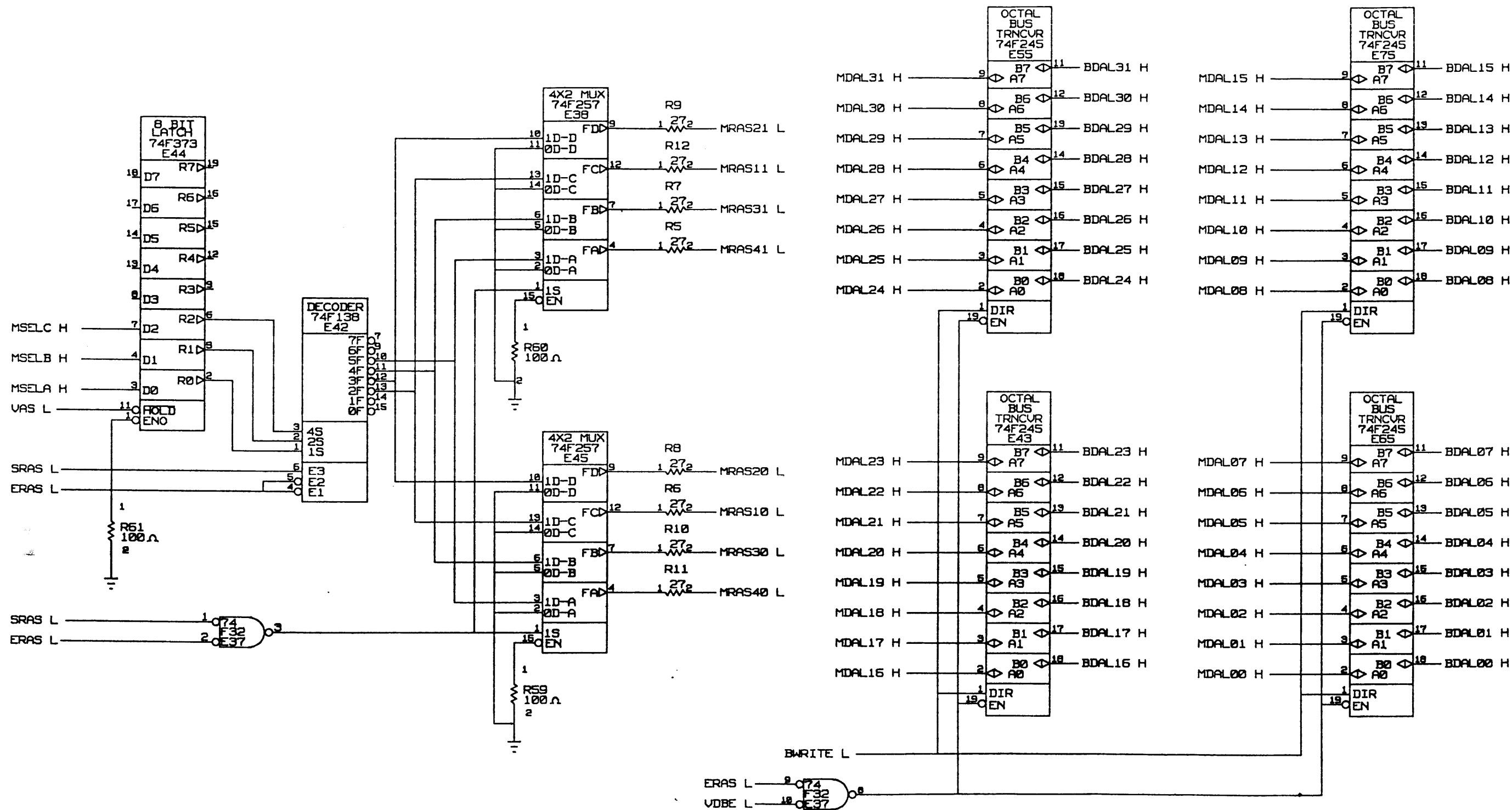
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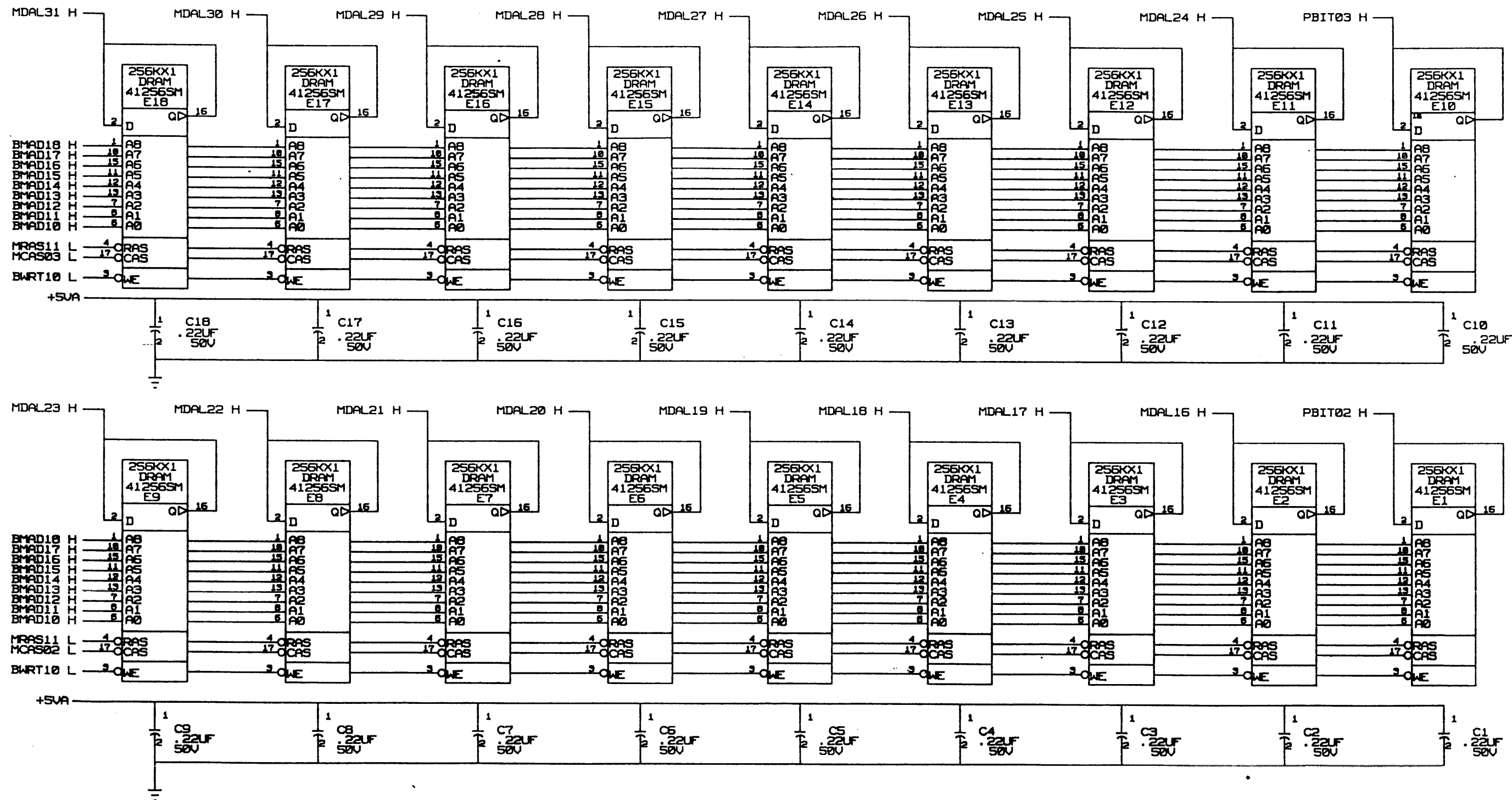
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DESIGN LOCATION: 2 OF 11	SIZE: B	CODE: CS
TOP DOCUMENT NUMBER: K-DD-5416802-0-0	NUMBER: 5416802-0-1	REV. A

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DESIGN	G. LORD	DATE	8/7/86	TITLE	2/4 MBYTE MEMORY OPTION
BOARD LOCATION					
SHEET	3 of 11				
TOP DOCUMENT NUMBER	K-DD-5416802-0-0			SIZE	B CS
				NUMBER	5416802-0-1
				REV.	A

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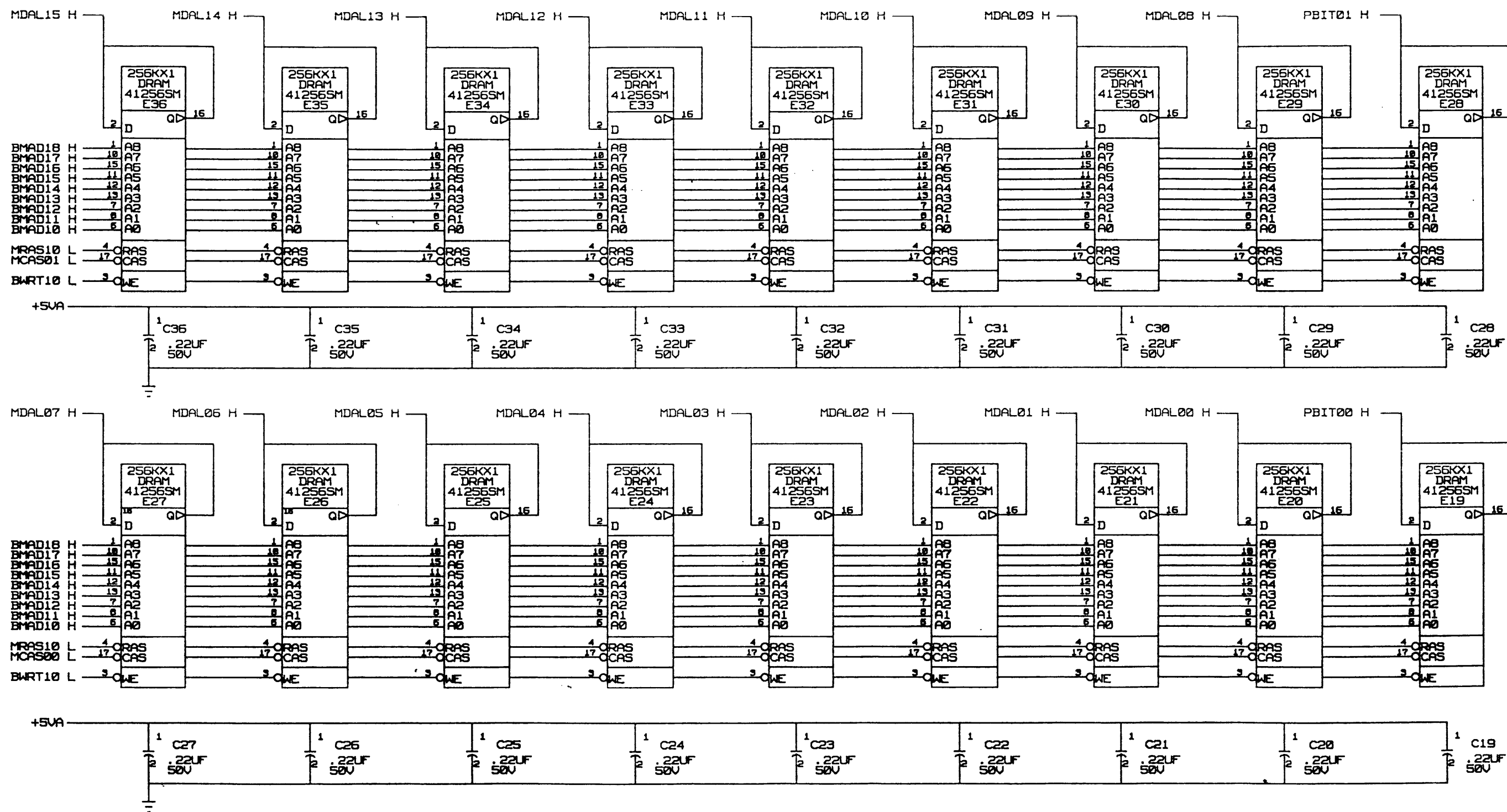


NOTE: ALL MEMORY CHIPS ON THIS PAGE
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BANK 1 BITS <31:16>

REV	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
REV	4 of 11	REV		REV	
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	SIZE	B CS	NUMBER	5416802-0-1
				REV	A

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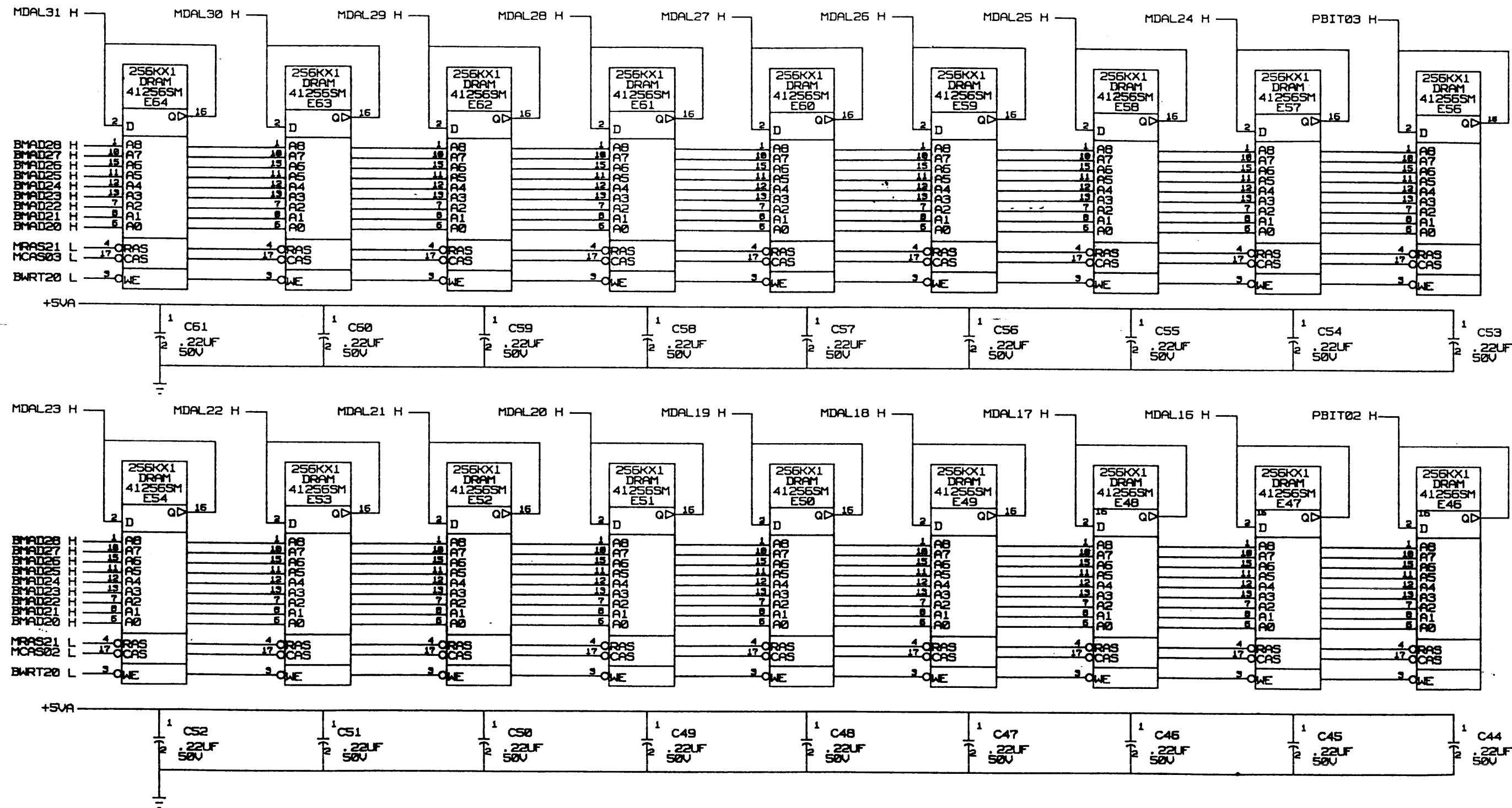


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BANK 1 BITS <15:00>

ENG.	G. LORD	DATE	8/8/85	TITLE	2/4 MBYTE MEMORY OPTION		
RUPP DRAWINGS		SHEET		5 of 11			
TOP DOCUMENT NUMBER				SIZE	CODE	NUMBER	REV
K-DD-5415802-0-0				A	CS	5415802-0-1	A

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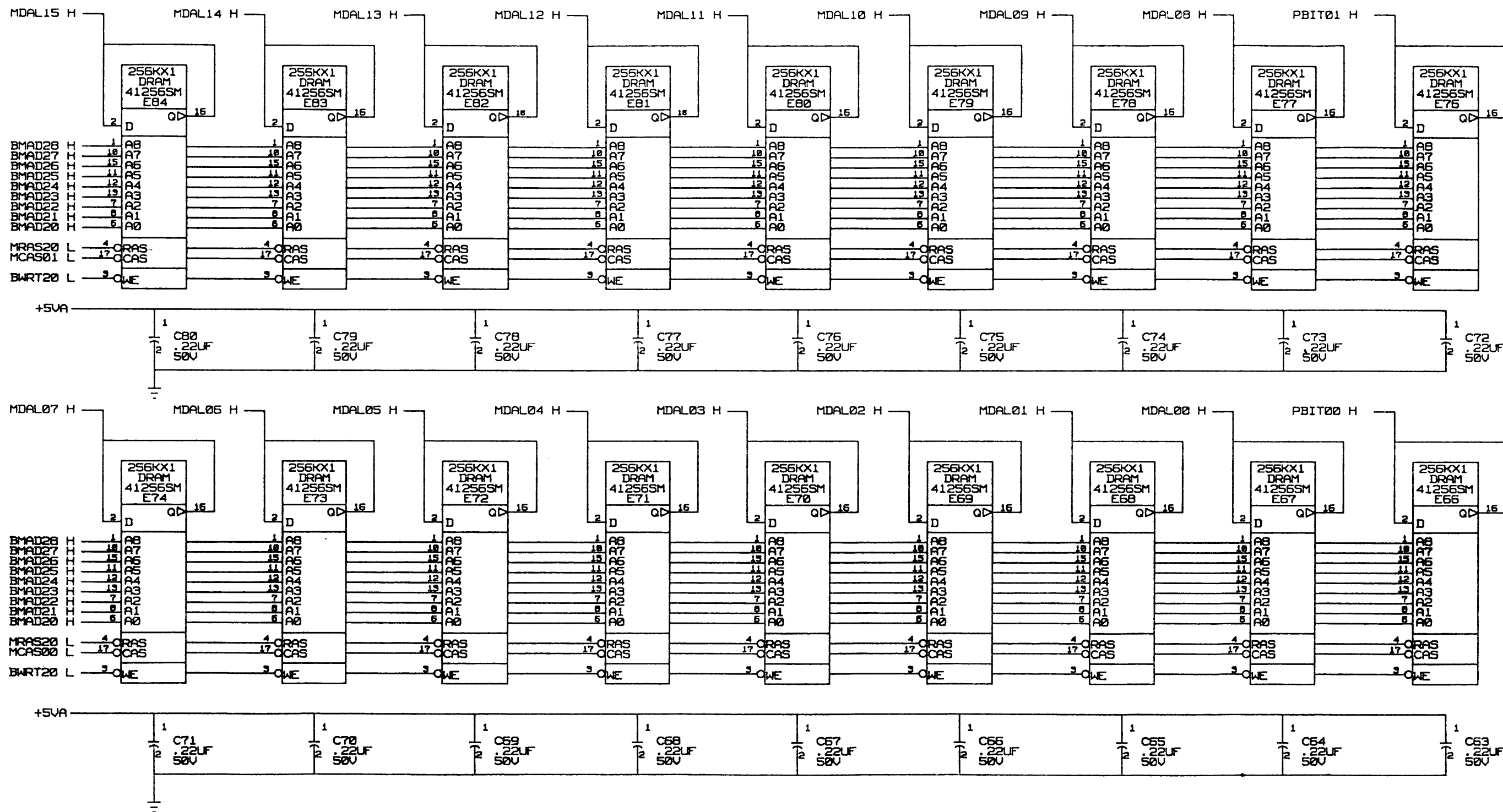


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BANK 2 BITS <31:16>

DESIGN	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
REVISION	1	BY	5 of 11	SIZE	B CS
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	NUMBER	5416802-0-1	REV.	A

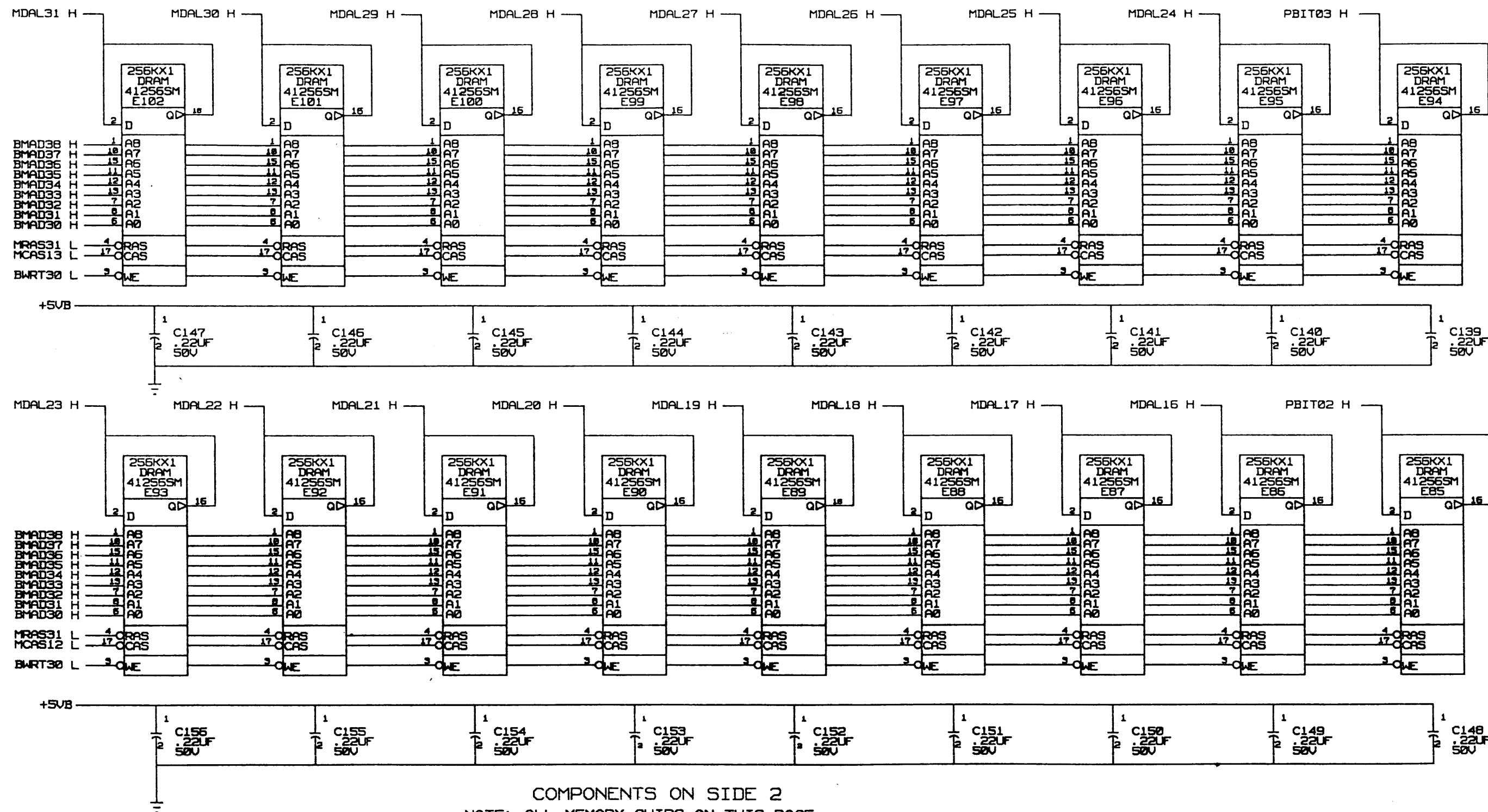
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REVISION	1	DATE	8/8/86	BY	7 of 11
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	SIZE	B	CODE	CS
		NUMBER	5416802-0-1	REV.	A

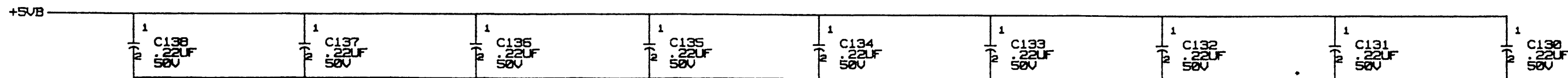
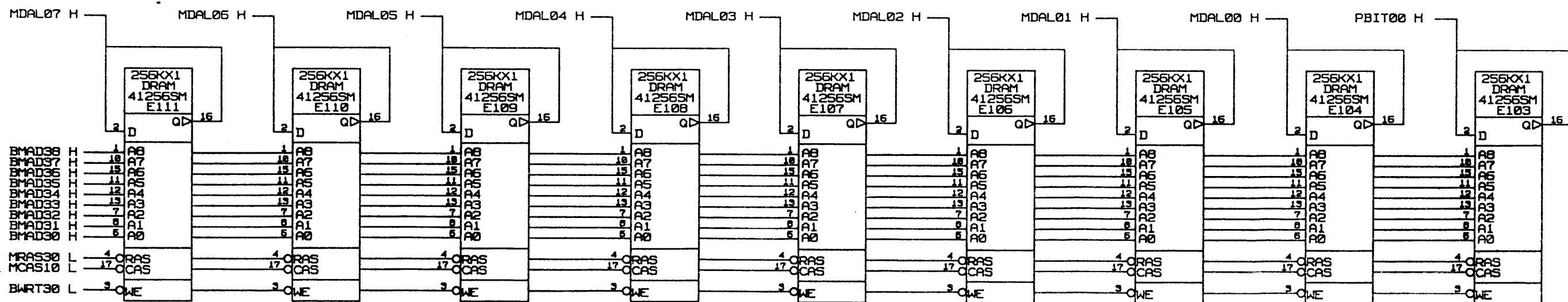
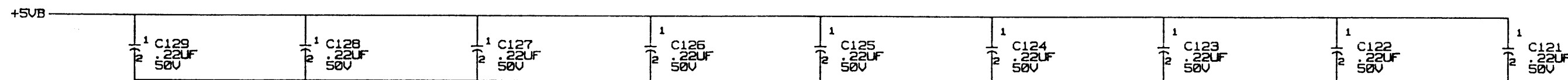
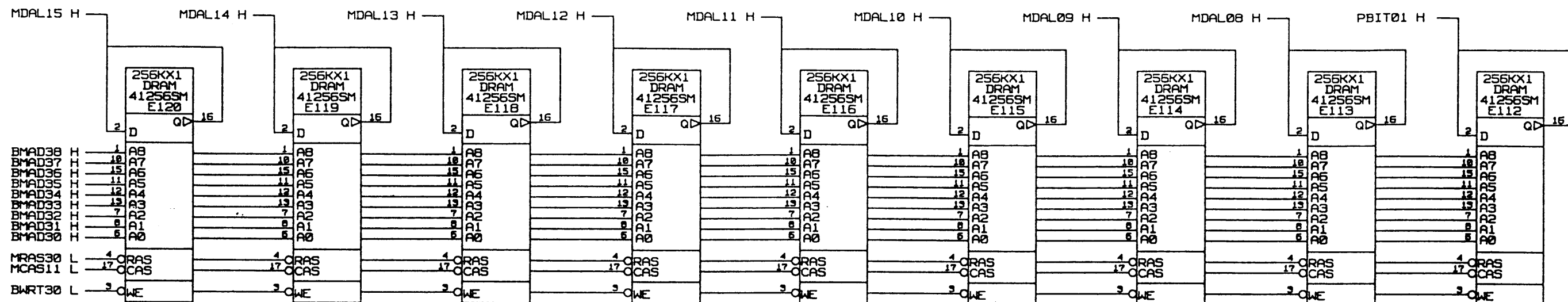
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VCC IS CONNECTED TO +5VB
BANK 3 BITS <31:16>

DESIGNED BY G. LORD	DATE 8/8/85	TITLE 2/4 MBYTE MEMORY OPTION
REVIEWED BY B. O. J.	SIZE B	CODE CS
TOP DOCUMENT NUMBER K-DD-5415802-0-0	NUMBER 5415802-0-1	REV. A

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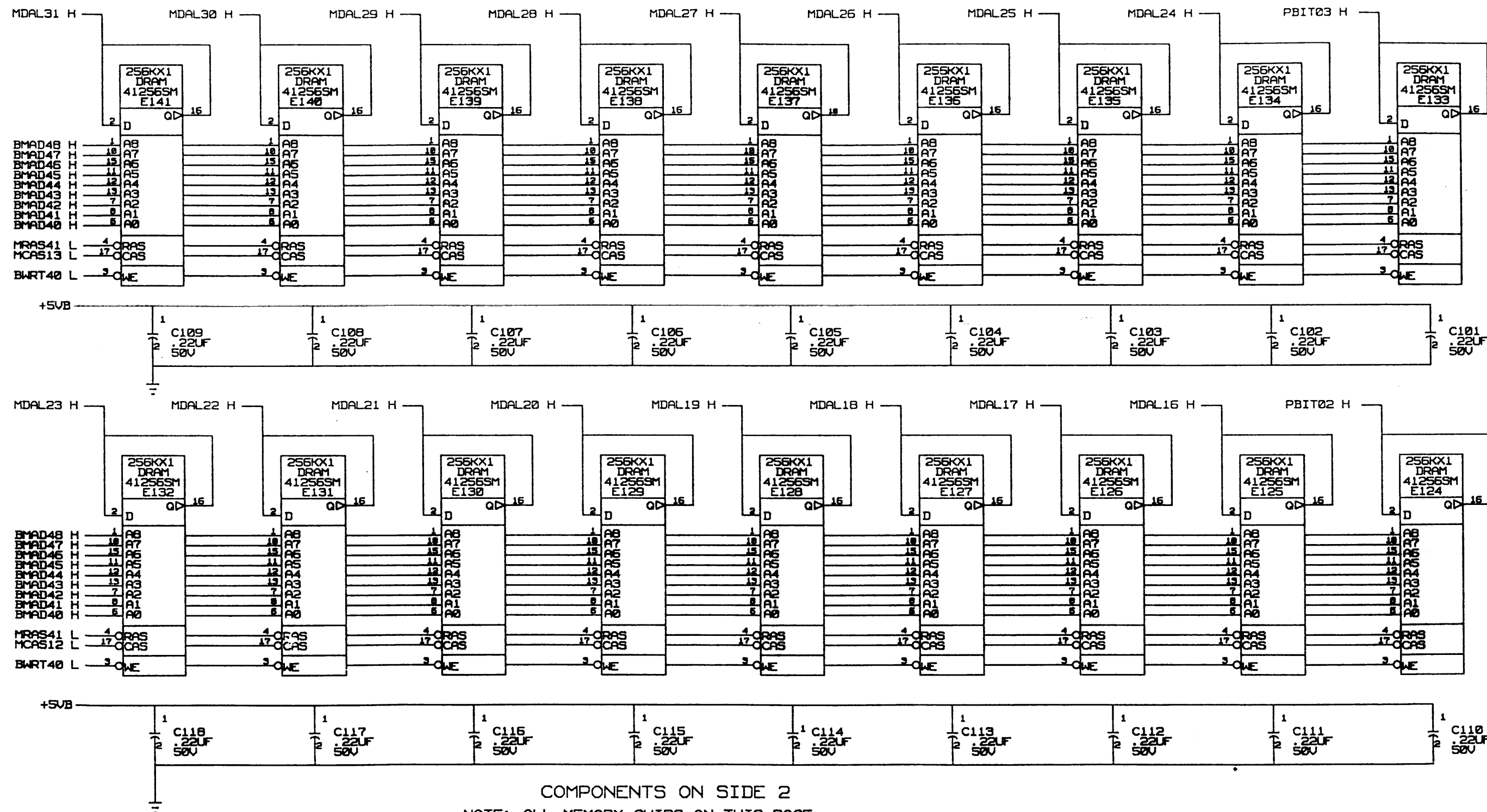
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DESIGN	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
BOARD LOCATION	9 of 11				
SHEET	9 of 11				
TOP DOCUMENT NUMBER	K-DD-5416802-0-0			SIZE	B
	CODE	CS	NUMBER	5416802-0-1	REV.
					A

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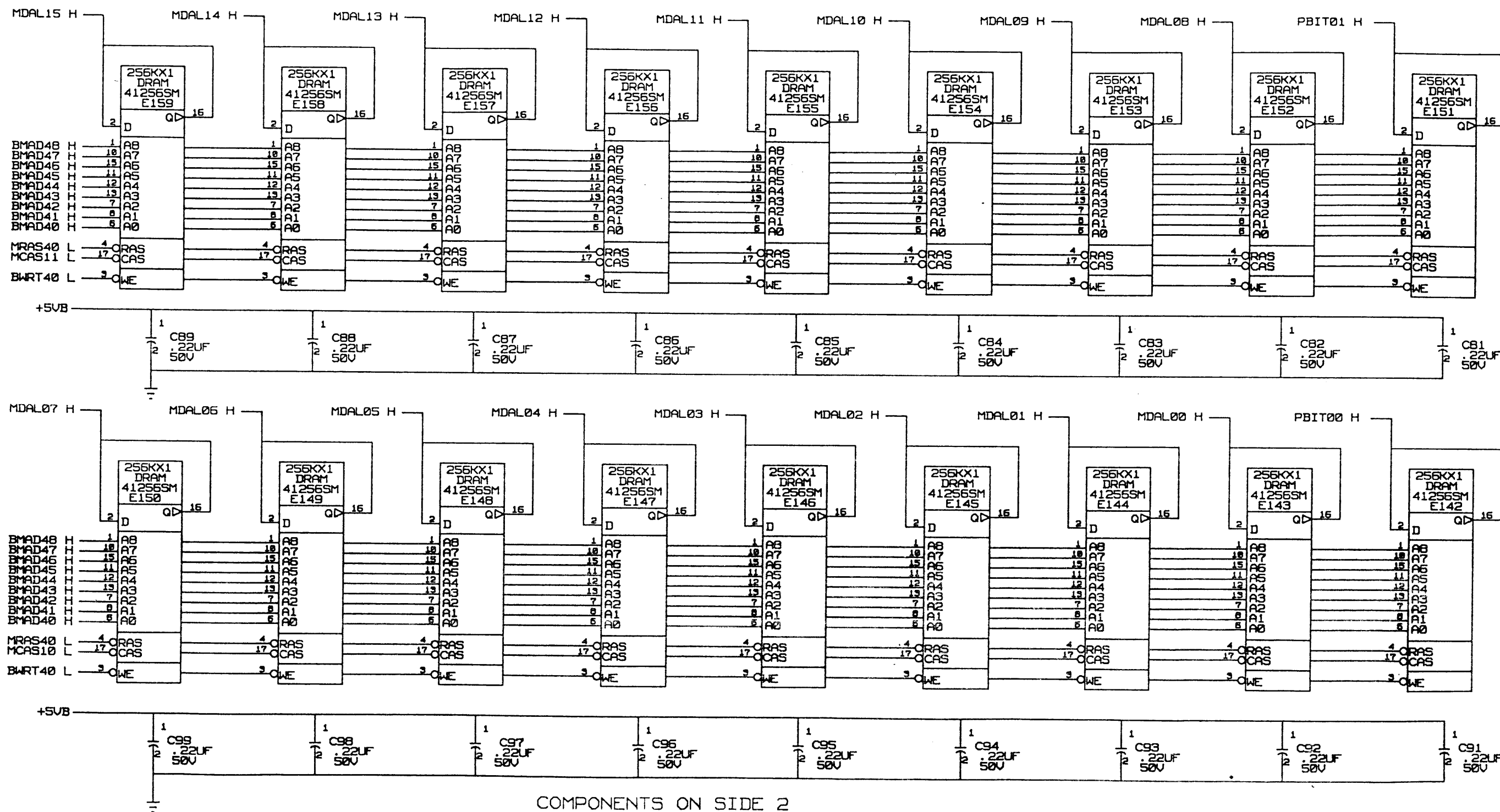
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BANK 4 BITS <31:16>

DESIGN	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
DESIGNED BY		CHECKED BY	10 or 11	SIZE	B CS
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	NUMBER	5416802-0-1	REV.	A

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VCC IS CONNECTED TO +5VB
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DESIGN	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
BOARD LOCATION					
SHEET			11 of 11		
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	SIZE	B	CODE	CS
		NUMBER	5416802-0-1	REV.	A