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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS COVERED BY THIS PRINT SET
KS1Ø-AA
KS1Ø-AB

KSIØ

Field Maintenance Print Set

Digital Equipment Corporation

MPØØ54Ø

REVISIONS	REV.		
	CHG. NO.		
	DATE		

USED ON OPTION/MODEL	
KS1Ø-Ø	
SHEET 1 OF 3	

DRN. J. Huson	DATE 29Nov77	TITLE: KS1Ø PROCESSOR
CHK'D T. Hallisey	DATE 3-17-78	
PROJ. ENG. T. Drundion	DATE 4/24/78	
FIELD SERV. J. Willagan	DATE 4/28/78	

digital

SIZE	CODE	NUMBER	REV.
B	TC	KS1Ø-Ø-1	

DIST.

SIZE B | CODE TC | NUMBER KS1Ø-Ø-1 | REV.

DRB 124

MR

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D-UA-KS1Ø-Ø-Ø	KS1Ø PROCESSOR UNIT ASSY
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B-DD-KS1Ø-PA	CARD CAGE ASSY DRAWING DIRECTORY
A-PL-KS1Ø-PA-Ø	CARD CAGE ASSY PARTS LIST
E-UA-KS1Ø-PA-Ø	CARD CAGE ASSY
E-IA-7015109-0-0	MAIN D.C. HARNESS (NON-UL)
E-IA-7015571-0-0	MAIN D.C. HARNESS (UL)
D-IA-7014323-0-0	BLOWER POWER CORD
D-IA-7014324	BLOWER POWER CORD
D-IA-7015137-0-0	POWER SUPPLY CORD
D-IA-7015325-0-0	POWER SUPPLY CORD
D-IA-7015108-0-0	CONSOLE PANEL CABLE
D-IA-7015269-0-0	BACKPLANE SIGNAL HARNESS
D-IA-7015159-0-0	SWITCH PANEL HARNESS
D-IA-7014482-0-0	SWITCH PANEL BRACKET ASSY
E-IA-7015317-0-0	CARD CAGE POWER HARNESS
D-AD-7015067-0-0	HEAT SENSOR ASSY
D-AD-7014462-0-0	ASSY, MASS BUS CABLE TROUGH
D-IA-7014486-0-0	BACKPLANE ASSY
A-WL-7014486-0-1	KS1Ø CLOCK COAX
A-WL-7014486-0-2	KS1Ø POWER WIRING
A-WL-7014486-0-3	KS1Ø BUS STRIPPING
D-AD-7014173-0-0	BA11-K BOX ASSY
D-UA-5413261-0-0	POWER DISTRIBUTION BOARD
D-CS-M8615-Ø-CSL1	CONSOLE & CONTROL, CLK, KS1Ø ARB
D-CS-M8616-Ø-CSL2	CONSOLE & CONTROL, CONSOLE CONTROL
D-CS-M8616-Ø-CSL3	CONSOLE & CONTROL ADDRESS DECODE
D-CS-M8616-Ø-CSL4	CONSOLE & CONTROL, CPU CONTROL
D-CS-M8616-Ø-CSL5	CONSOLE & CONTROL, CPU CLK CONTROL
D-CS-M8616-Ø-CSL6	CONSOLE & CONTROL, DATA PATH 1
D-CS-M8616-Ø-CSL7	CONSOLE & CONTROL, DATA PATH 2
D-CS-M8616-Ø-CSL8	CONSOLE & CONTROL, DATA PATH 3
D-CS-M8616-Ø-CSL9	CONSOLE & CONTROL, KLINIK
D-CS-M8616-Ø-CSLA	CONSOLE & CONTROL, CPU CLK CONT
D-CS-M8616-Ø-CSLB	CONSOLE & CONTROL, MISC
D-CS-M8616-Ø-CSLC	CONSOLE & CONTROL, PWR,GND,CAPS
D-CS-M8618-Ø-MMC1	MEMORY CONTROL, SM1Ø BUS
D-CS-M8618-Ø-MMC2	MEMORY CONTROL, ERROR CORRECTION
D-CS-M8618-Ø-MMC3	MEMORY CONTROL, ADDRESS MUX
D-CS-M8618-Ø-MMC4	MEMORY CONTROL, ECC GEN/CHK
D-CS-M8618-Ø-MMC5	MEMORY CONTROL, ERROR CORRECTION
D-CS-M8618-Ø-MMC6	MEMORY CONTROL, MOS DATA
D-CS-M8618-Ø-MMC7	MEMORY CONTROL, OUPUT MIX
D-CS-M8618-Ø-MMC8	MEMORY CONTROL, ADDRESS MATCH
D-CS-M8618-Ø-MMC9	MEMORY CONTROL, REFRESH LOGIC
D-CS-M8618-Ø-MMCA	MEMORY CONTROL, CYCLE LOGIC
D-CS-M8618-Ø-MMCB	MEMORY CONTROL, WRITE LOGIC
D-CS-M8618-Ø-MMCC	MEMORY CONTROL, CLOCKS
D-CS-M8618-Ø-MMCD	MEMORY CONTROL, POWER GND, CAPS
D-CS-M8619-Ø-UBA1	UNIBUS ADAPTER, UNIBUS ARB
D-CS-M8619-Ø-UBA2	UNIBUS ADAPTER, UNIBUS CONTROL
D-CS-M8619-Ø-UBA3	UNIBUS ADAPTER, INTERRUPT
D-CS-M8619-Ø-UBA4	UNIBUS ADAPTER, I/O RD & WRT
D-CS-M8619-Ø-UBA5	UNIBUS ADAPTER, NPR CONTROL
D-CS-M8619-Ø-UBA6	UNIBUS ADAPTER, KS1Ø BUS REQ
D-CS-M8619-Ø-UBA7	UNIBUS ADAPTER, FAST MODE LOGIC
D-CS-M8619-Ø-UBA8	UNIBUS ADAPTER, DATA PATH 1
D-CS-M8619-Ø-UBA9	UNIBUS ADAPTER, DATA PATH 2
D-CS-M8619-Ø-UBAA	UNIBUS ADAPTER, DATA PATH 3
D-CS-M8619-Ø-UBAB	UNIBUS ADAPTER, DATA PATH 4
D-CS-M8619-Ø-UBAC	UNIBUS ADAPTER, DATA PATH 5
D-CS-M8619-Ø-UBAD	UNIBUS ADAPTER, TERMINATION
D-CS-M8619-Ø-UBAF	UNIBUS ADAPTER, UNIBUS CONN
D-CS-M8619-Ø-UBAF	UNIBUS ADAPTER, +5.ØV CAPS
D-CS-M8619-Ø-UBAH	UNIBUS ADAPTER, POWER, GND PINS
D-CS-M8620-Ø-DPE1	DATA PATH EXEC, DP LEFT
D-CS-M8620-Ø-DPE2	DATA PATH EXEC, DP RIGHT
D-CS-M8620-Ø-DPE3	DATA PATH EXEC, DBUS LEFT
D-CS-M8620-Ø-DPE4	DATA PATH EXEC, DBUS RIGHT
D-CS-M8620-Ø-DPE5	DATA PATH EXEC, CONTROL
D-CS-M8620-Ø-DPE6	DATA PATH EXEC, RAMFILE ADDRESS
D-CS-M8620-Ø-DPE7	DATA PATH EXEC, RAMFILE LEFT
D-CS-M8620-Ø-DPE8	DATA PATH EXEC, RAMFILE RIGHT
D-CS-M8620-Ø-DPE9	DATA PATH EXEC, P.C. FLAGS
D-CS-M8620-Ø-DPEA	DATA PATH EXEC, IR, SKIP & DISP
D-CS-M8620-Ø-DPEB	DATA PATH EXEC, PRIORITY INTERRUPT
D-CS-M8620-Ø-DPEC	DATA PATH EXEC, POWER, GND, CAPS
D-CS-M8621-Ø-DPM1	DATA PATH MEMORY, DBM LEFT
D-CS-M8621-Ø-DPM2	DATA PATH MEMORY, DBM RIGHT
D-CS-M8621-Ø-DPM3	DATA PATH MEMORY, STEP COUNT ADD
D-CS-M8621-Ø-DPM4	DATA PATH MEMORY, FE, SC, VMA, REGS
D-CS-M8621-Ø-DPM5	DATA PATH MEMORY, MEMORY CYCLE
D-CS-M8621-Ø-DPM6	DATA PATH MEMORY, PAGE TABLE
D-CS-M8621-Ø-DPM7	DATA PATH MEMORY, CACHE DIRECTORY
D-CS-M8621-Ø-DPM8	DATA PATH MEMORY, BUS LEFT
D-CS-M8621-Ø-DPM9	DATA PATH MEMORY, BUS RIGHT
D-CS-M8621-Ø-DPMA	DATA PATH MEMORY, CONTROL
D-CS-M8621-Ø-DPMB	DATA PATH MEMORY, APR DEVICE
D-CS-M8621-Ø-DPMC	DATA PATH MEMORY, MORE CONTROL
D-CS-M8621-Ø-DPMD	DATA PATH MEMORY, POWER, GND, CAPS
D-CS-M8621-Ø-DPME	DATA PATH MEMORY, POWER, GND, CAPS
D-CS-M8622-Ø-CRA1	CRAM ADDRESS, ADR BITS ØØ-11

TITLE		SIZE	CODE	NUMBER	REV
KS1Ø PROCESSOR	SHEET 2 OF 3	B	TC	KS1Ø-Ø-1	

MR

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D-CS-M8622-0-CRA2	CRAM ADDRESS, CONTROL
D-CS-M8622-0-CRA3	CRAM ADDRESS, SUBROUTINE STACK
D-CS-M8622-0-CRA4	CRAM ADDRESS, DIAGNOSTIC 1
D-CS-M8622-0-CRA5	CRAM ADDRESS, BACKPANEL BUS
D-CS-M8622-0-CRA6	CRAM ADDRESS, CRAM REGISTER
D-CS-M8622-0-CRA7	CRAM ADDRESS, ADDRESS DRIVERS
D-CS-M8622-0-CRA8	CRAM ADDRESS, 00-05, 12-17, 24-29
D-CS-M8622-0-CRA9	CRAM ADDRESS, 00-11, 18-23, 30-35
D-CS-M8622-0-CRAA	CRAM ADDRESS, POWER, GND, CAPS
D-CS-M8623-0-CRM1	CONTROL RAM, ADDRESS DRIVERS
D-CS-M8623-0-CRM2	CONTROL RAM, OUTPUT REGISTERS
D-CS-M8623-0-CRM3	CONTROL RAM, PAR & DIAG
D-CS-M8623-0-CRM4	CONTROL RAM, RAMS 36-47
D-CS-M8623-0-CRM5	CONTROL RAM, RAMS 48-59
D-CS-M8623-0-CRM6	CONTROL RAM, RAMS 60-71
D-CS-M8623-0-CRM7	CONTROL RAM, RAMS 72-83
D-CS-M8623-0-CRM8	CONTROL RAM, RAMS 84-95
D-CS-M8623-0-CRM9	CONTROL RAM, POWER, GROUND, CAPS
D-CS-M8629-0-MMA1	MOS MEMORY ARRAY, ARRAY DRIVERS
D-CS-M8629-0-MMA2	MOS MEMORY ARRAY, ADDRESS BUFFERS
D-CS-M8629-0-MMA3	MOS MEMORY ARRAY, BITS 41-23A
D-CS-M8629-0-MMA4	MOS MEMORY ARRAY, BITS 41-23B
D-CS-M8629-0-MMA5	MOS MEMORY ARRAY, BITS 21-01A
D-CS-M8629-0-MMA6	MOS MEMORY ARRAY, BITS 21-01B
D-CS-M8629-0-MMA7	MOS MEMORY ARRAY, BITS 42-22A
D-CS-M8629-0-MMA8	MOS MEMORY ARRAY, BITS 42-22B
D-CS-M8629-0-MMA9	MOS MEMORY ARRAY, BITS 20-00A
D-CS-M8629-0-MMAA	MOS MEMORY ARRAY, BITS 20-00B
D-CS-M8629-0-MMAB	MOS MEMORY ARRAY, POWER, GND, CAPS
D-CS-M8629-0-MMAC	MOS MEMORY ARRAY, POWER, GND, CAPS
D-CS-M8629-0-MMAD	MOS MEMORY ARRAY, ARRAY +5V
A-SP-KS10-0-2	KS10-AA,AB MANUFACTURING TEST SPEC.

TITLE	SHEET	SIZE	CODE	NUMBER	REV
KS10 PROCESSOR	3 OF 3	B	TC	KS10-0-1	

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
KS1Ø-AA	KS1Ø PROCESSOR UNIT ASSY 115V/6ØHZ
KS1Ø-AB	KS1Ø PROCESSOR UNIT ASSY 23ØV/5ØHZ

REVISIONS
REV.
CHANGE NO.
CHK

USED ON OPTION/MODEL
KS1Ø

SHEET 1 OF 7

DRN. J. HUSON	DATE 18 Nov 77	TITLE digital KS1Ø PROCESSOR
CHK'D. T Hallatt	DATE 3-17-78	
PROJ. ENG. T. Dunclon	DATE 4/28/78	
PROD. P. CHAPELLE	DATE 4/28/78	

SIZE	CODE	NUMBER	REV
B	DD	KS1Ø-Ø	

DIST.

DRB 106A

MR

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1 — KS1Ø PROCESSOR UNIT ASSY
D-UA-KS1Ø-Ø

2 — CABINET, SINGLE HIBOY
B-DD-H95-Ø2-Ø

3 — WELDMENT, FRONT DOOR
E-IA-7012687-0-0

4 — END PANEL ASSY
E-IA-7011509-0-0

5 — COVER, CABINET TOP
E-IA-7011552-0-0

6 — WELDMENT, REAR DOOR
E-IA-7013661-0-0

7 — HINGE BRACKET ASSY
C-IA-7011547-0-0

8 — EXPANSION DRAWER SUB-ASSY
B-DD-7014173-0

9 — PRE-FOLDED, BCO6R
D-AD-7015502-0-0

10 — FILTERED CABLE ASSY BCØ3L
D-UA-BCØ3L-Ø-Ø

11 — 861 POWER CONTROL
B-DD-861-Ø

12 — CENTRAL PROCESSOR ASSY
B-DD-KS1Ø-PA

13 — INTERLOCK KIT MARK III
E-AD-7013688-0

14 — CHURCHKEY ASSY
C-IA-7013667-0-0

15 — ASYNCHRONOUS MUX DZ11
B-DD-DZ11-Ø

16 — ASSY MASSBUS CABLE TROUGH
D-AD-7014462-0-0

17 — TROUGH MASSBUS CABLE
D-IA-7014478-0-0

18 — SPRING RECEPTICAL ASSY
C-AD-7013817-0-0

19 — ASSY, H317 MTG BRACKET
D-IA-7014479-0-0

20 — WELDMENT, H317 MTG BRACKET
D-IA-7014480-0-0

21 — SPRING RECEPTICAL ASSY
C-IA-7416224

22 — ASSY, P/S MOUNTING HINGE
E-IA-7014476-0-0

23 — WELDMENT PS FRAME
D-IA-7014463-0-0

24 — WELDMENT, HINGE
E-IA-7014474-0-0

25 — WELDMENT CABLE BRACKET
D-IA-7015170-0-0

26 — BASKET, WIRE CABLE
D-IA-7011223-0-0

27 — DRAWING DIRECTORY DD11-D
B-DD-DD11-D

28 — SWITCH PANEL BRKT ASSY
D-IA-7014482-0-0

29 — CLAMP, CABLE ASSY
C-AD-7014491-0-0

CONTINUED ON SHEET #3

TITLE		SIZE	CODE	NUMBER	REV
KS1Ø PROCESSOR	SHEET 2 OF 7	B	DD	KS1Ø-Ø	

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CONTINUED FROM SHEET #2

(30)

CABLE ASSY,
INTERNAL UNIBUS

D-AD-7015468-0-0

(31)

UNIBUS TO H854
ADAPTER BOARD

B-DD-M9Ø14-Ø

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPØØ54Ø	FIELD MAINTENANCE PRINT SET (MP)	-
	B-TC-KS1Ø-Ø-1	FIELD MAINTENANCE PRINT SET (TC)	-
	D-UA-KS1Ø-Ø-Ø	KS1Ø PROCESSOR UNIT ASSY (UA)	E/M
	A-PL-KS1Ø-Ø-Ø	KS1Ø PROCESSOR UNIT ASSY (PL)	E/M
	E-MD-7419762-0-0	PIVOT & BEZEL SUPPORT, BRACKET	M
	D-IA-7416575-0-0	DOOR PIVOT TOP	M
	C-MD-7415200-0-0	PIVOT PLATE	M
	D-IA-7420372-0-0	MASSBUS CABLE TROUGH CLAMP	M
	C-MD-7414318-0-0	KEY BUTTON	M
	B-MD-7413639-0-0	SHIPPING BRACKET (BA11K)	M
	D-MD-7420636-0-0	FRONT DRIP SCREEN	M
	A-PS-3615379-0-0	LABEL ADH. BACK KSIO	M
	D-MD-7419315-0-0	BRKT, SUPPORT MTG	M
	C-IA-7419497-0-0	BRACKET VERTICAL CABLING	M
	E-IA-7419500-0-0	CONSOLE DECSYSTEM 2Ø2Ø CONTROL	M
	B-IA-7419496-0-0	BASKET BRACKET	M
	C-MD-7413983-0-0	ENCLOSURE CLAMP	M
	E-MD-7415471-0-0	STRIP, DOOR CLOSING	M
	C-MD-7419826-0-0	CLIP, CABLE	M
	D-IA-BCØ3M-Ø-Ø	CORD, EXTENSION NULL MODEM	M
	C-MD-7420390-0-0	BRACKET, INTERLOCK	M
	D-IA-7015066-0-0	BLOWER POWER CORD	M
	D-IA-7015137-0-0	POWER CORD, POWER SUPPLY	M
	A-PS-3613210-0-0	LABEL, ADHESIVE BACKED, ELECT. DATA	M
	D-MD-7419286-0-0	INTER CABINET DRIP SHIELD	M
	A-DC-7417095-0-0	CAUTION DECAL	M
	C-IA-7008288-0-0	CABLE ASSY	M
	C-IA-7414622-0-0	LOCK STUD ASSY	E/M
	D-IA-7015325-0-0	POWER SUPPLY POWER CORD	E/M
	D-IA-7015326-0-0	BLOWER POWER CORD	E
	D-CS-M93ØØ-Ø-1	UNIBUS B TERMINATOR	M
	C-MD-7418685-0-0	FRONT CLOSING STRIP	E/M
	C-IA-7015508-0-0	CABLE ASSY, 861 TO PWR DIST BOARD	E/M
	A-SP-3615670-0-0	FIBERGLASS PROTECTIVE TAPE	E/M
	C-UA-BCØ5D-Ø-Ø	ASYNC MODEM INTERF CABLE ECT	E/M
	A-SP-KSIØ-Ø-2	2020 SYSTEM ACCEPTANCE TEST SPEC	M
	A-SP-3700241-12	PKG INSTRUCTIONS CORP CAB	
2	B-DD-H95Ø2-Ø	CABINET, SINGLE HIBOY	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
3	E-IA-7012687-0-0	E-IA-7012687-0-0	M
	C-MD-7415307-0-0	BRACKET, SUPPORT	M
	D-MD-7414429-0-0	STIFFENER, DOOR	M
	C-MD-7415421-0-0	SPACER, FILTER	M
	C-MD-7414430-0-0	PIVOT SPRING RETAINER	M
	E-MD-7416578-0-0	DOOR, FRONT	M
	D-MD-7414425-2-0	STIFFENER DOOR	M
4	E-IA-7011509-0-0	END PANEL ASSY	M
	C-IA-7415578-0-0	STRAP, GROUND	M
	C-IA-7415321-0-0	PLATE, GROUNDING	M
	D-MD-7414542-0-0	CAP, CORNER (STAMPING)	M
	D-MD-7414314-0-0	STIFFENER END PANEL	M
	E-MD-7414601-0-0	PANEL, END	M
5	E-IA-7011552-0-0	COVER, CABINET TOP	M
	E-MD-7414551-0-0	PANEL, COVER	M
	C-IA-7415321-0-0	PLATE, GROUNDING	M
	C-IA-7415578-0-0	STRAP, GROUND	M
	C-MD-7417022-0-0	CATCH, TOP COVER	M
6	E-IA-7013661-0-0	WELDMENT, REAR DOOR	M
	E-MD-7418162-0-0	DOOR, REAR	M
	D-MD-7415442-0-0	STIFFENER, DOOR	M
	D-MD-7415441-0-0	STIFFENER, DOOR CENTER	M
	C-MD-7415307-0-0	BRACKET, SUPPORT	M
	D-IA-7415363-0-0	STIFFENER, TOP COVER	M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: KS1Ø PROCESSOR

SHEET 4 OF 7 | SIZE B | CODE DD | NUMBER KS1Ø-Ø | REV

DRB 108A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
7	C-IA-7011547-0-0	HINGE BRACKET ASSY	M
	C-MD-7415504-0-0	GUSSET	M
	C-MD-7414834-0-0	BRACKET HINGE	M
8	B-DD-7014173-0	EXPANSION DRAWER SUB-ASSY	E/M
9	D-AD-7015502-0-0	PRE FOLDED BCØ6R	
	D-UA-BCØ6R-Ø-Ø	I/O CABLE	
10	D-UA-BCØ3L-Ø-Ø	FILTEREO CABLE ASSY BCØ3L	E/M
	C-MD-7419277-0-0	PLATE, CONN MTG	M
11	B-DD-861-Ø	861 POWER CONTROL	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
12	B-DD-KS1Ø-PA	CENTRAL PROCESSOR ASSY	M
13	E-AD-7013688-0-0	INTERLOCK KIT (MARK III)	M
	C-MD-7416222-0-0	RETAINER, INTERLOCK	M
	D-MD-7416424-0-0	PLATE, CAM	M
	D-IA-7416221-0-0	PLATE, BACK	M
	D-IA-7416556-0-0	BRACKET, OUTRIGGER	M
	C-MD-7417977-0-0	KEY, HEX	M
14	C-IA-7013667-0-0	ASSEMBY, CHURCHKEY	M
	C-MD-7418173-0-0	CHURCHKEY	M
15	B-DD-DZ11-Ø	ASYNCHRONOUS MUX DZ11	E/M
16	D-AD-7014462-0-0	ASSY MASSBUS CABLE TROUGH	M
	A-DC-7418581-0-0	UNIBUS 1,2,3 DECAL	M
	D-AD-7009861-0-0	RECEPTACLE HOUSING	M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
KS1Ø PROCESSOR	5 OF 7	B	DD	KS1Ø-Ø	

DRB 108A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
17	D-IA-7014478-0-0	WELDMENT, MASS BUS CABLE TROUGH	M
	E-IA-7419324-0-0	TROUGH, MASS BUS CABLE	M
	D-MD-7419494-0-0	BRACKET, L.H. ANGLE	M
	D-MD-7419495-0-0	BRACKET, R.H. ANGLE	
18	C-AD-7013817-0-0	SPRING RECEPTACLE ASSY	M
	C-MD-7418076-0-0	BRKT. LOCKING	M
19	D-IA-7014479-0-0	ASSY, H317 MTG BRACKET	M
20	D-IA-7014480-0-0	WELDMENT H317 MTG BRACKET	M
	D-IA-7419493-0-0	BRACKET H317 MOUNTING	M
	C-IA-7419352-0-0	BRACKET H317 RAIL MOUNTING	M
21	C-IA-7416224	SPRING RECEPTICAL ASSY	M
	C-MD-7415308	BRACKET, SPRING RECEPTACLE	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
22	E-IA-7014476-0-0	ASSY, P/S MOUNTING HINGE	M
	C-MD-7419492-0-0	ROD PIVOT	M
23	D-IA-7014463-0-0	WELDMENT PS FRAME	M
	D-MD-7419322-0-0	PS MOUNTING PLATE	M
	D-MD-7419334-0-0	HORIZONTAL FRAME	M
	D-MD-7419323-0-0	VERTICAL FRAME	M
24	E-IA-7014474-0-0	WELDMENT, HINGE	M
	C-MD-7419499-0-0	RETAINER LOCKING PIN	M
	D-IA-7419321-0-0	BRACKET, STIFFENER	M
	D-MD-7419349-0-0	BRACKET, HINGE	M
25	D-IA-7015170-0-0	WELDMENT, CABLE BRACKET	M
	D-MD-7419498-0-0	BRACKET, CABLE EXIT	M
	B-MD-7420104-0-0	"L" MOUNTING BRACKET	M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE KS1Ø PROCESSOR

SHEET 6 OF 7 | SIZE B | CODE DD | NUMBER KS1Ø-Ø | REV

DRB 108A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
26	D-IA-7011223-0-0	BASKET WIRE CABLE	M
	B-MD-7413987-0-0	BAR, SUPPORT	M
	B-MD-7413986-0-0	CHANNEL, BASKET	M
	B-MD-7413985-0-0	BAR, MOUNTING	M
27	B-DD-DD11-D	DRAWING DIRECTORY DD11-D	M
28	D-IA-7014482-0-0	SWITCH PANEL BRKT ASSY	M
	D-MD-7419501-0-0	SWITCH PANEL BRKT	M
	D-IA-7015159-0-0	HARNESS, SWITCH PANEL	M
29	C-AD-7014491-0-0	CLAMP, CABLE ASSY	M
	C-MD-7419491-0-0	CLAMP, H317 CABLE	M
30	D-AD-7015468-0-0	CABLE ASSY, INTERNAL UNIBUS	E/M
	D-UA-BC05L-0-0	CABLE, JUMPER	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
31	B-DD-M9014-0	UNIBUS TC H854 ADAPTER BOARD	E
			E/M
			M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE KS10 PROCESSOR

SHEET 7 OF 7 | SIZE B | CODE DD | NUMBER KS10-0 | REV

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. Huson	CHECKED J Hallsky	SECTION 1
DATE 17 Nov 77	DATE 3-17-78	
ENG F. Dill	PROD P. CHAPELLE	ISSUED SECT. 1
DATE 28 APR 78	DATE 4-28-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA (6ØHZ)	KS1Ø-AB (5ØHZ)
1	E-AD-7011588-7-0	CABINET FRAME (H9502-4)	1	1
2	E-IA-7012687-0-0	FRONT DOOR	1	1
3	E-MD-7419762-0-0	PIVOT & BEZEL SUPPORT, BRACKET	1	1
4	D-IA-7416575-0-0	DOOR PIVOT TOP	1	1
5	C-MD-7415200-0-0	PIVOT PLATE	1	1
6	B-MD-7414226-0-0	PIN, DOOR RETAINER	2	2
7	9008500-0	RETAINING RING	2	2
8	9007097-0	SPRING	2	2
9	E-IA-7011509-0-0	END PANEL	2	2
10	E-IA-7011552-3-0	TOP COVER	1	1
11	C-MD-7414318-0-0	KEY BUTTON	8	8
12	E-IA-7013661-0-0	REAR DOOR	1	1
13	D-AD-7015468-0-0	CABLE ASSY, INTERNAL UNIBUS	1	1
14	D-AD-7014173-4-0	BA11-K ASSY 115V (H765-K)	1	-
15	D-AD-7014173-5-0	BA11-K ASSY 23ØV (H765-L)	-	1
16	9008007-03	SCREW TRUSS HD. PHL. #10-32 X .25 LONG	2	2
17	D-AD-7015502-0-0	PRE-FOLDED BCØ6R	1	1
18	B-MD-7413639-0-0	SHIPPING BRACKET (BA11K)	2	2
19	1213756-12	GROUND STRAP	3	3
20	D-CS-M93ØØ-Ø-1	UNIBUS "B" TERMINATOR	1	1
21	C-IA-7414622-0-0	LOCK STUD ASSY	1	1
22	D-CS-H325-Ø-1	TURN AROUND CONN	1	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø PROCESSOR UNIT ASSY	D-UA-KS1Ø-Ø-Ø	A	PL	KS1Ø-Ø-Ø		
	SHEET 1 OF 5	DIST				

DEC FORM DRA 110

MR.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. HUSON	CHECKED J Hallinan	SECTION 1
DATE 17 NOV 77	DATE 3-17-78	
ENG F Ouf	PROD P. CHAPELLE	ISSUED SECT. 1
DATE 28 Apr 78	DATE 4-28-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA (6ØHZ)	KS1Ø-AB (5ØHZ)
23	E-UA-861-C-Ø	POWER CONTROL ASSY 115V	1	-
24	E-UA-861-B-Ø	POWER CONTROL ASSY 23ØV	-	1
25	D-IA-BCØ3M-25-Ø	CORD EXTENSION NULL MODEM	1	1
26	D-UA-BCØ3L-5	FILTERED CABLE ASSY BCØ3L	2	2
27	9007035	GROMET, CATERPILLAR	A/R	A/R
28	D-MD-7419315-1-0	BRKT, SUPPORT MTG	1	1
29	D-MD-7419315-0-0	BRKT, SUPPORT MTG	1	1
30	A-PS-1214591-0-0	SHOCK MOUNT	4	4
31	D-IA-7014462-0-0	MASS BUS CABLE TROUGH ASSY	1	1
32	C-IA-7419497-0-0	BRACKET, VERTICAL CABLING	3	3
33	C-IA-7416224-0-0	SPRING RECEPTICAL ASSY	1	1
34	C-AD-7013817-0-0	SPRING RECEPTICAL ASSY	1	1
35	E-IA-7419500-0-0	CONSOLE DEC SYSTEM 2Ø2Ø CONTROL	1	1
36	D-IA-7014479-0-0	ASSY H317 MTG BRKT	2	2
37	E-IA-7014476-0-0	ASSY P/S MOUNTING HINGE	1	1
38	1209750	BUMPER, RUBBER	2	2
39	H7130-C	POWER SUPPLY 115V	1	-
40	H7130-D	POWER SUPPLY 230V	-	1
41	9006043-1	SCR, PHL PAN HD #8-32 x 1.00	4	4
42	9008072	WASHER, EXT TOOTH LOCK #8	8	8
43	1211255-0	PRE-FILTER	1	1
44	9006074-01	SCR PHL TRUSS HD 10-32 x .62 LG	101	101

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø PROCESSOR UNIT ASSY	D-UA-KS1Ø-Ø-Ø	A	PL	KS1Ø-Ø-Ø		
	SHEET 2 OF 5			DIST		

DEC FORM
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. HUSON	CHECKED J Hallinan	SECTION 1
DATE 17 NOV 77	DATE 3-17-78	
ENG F Ouf	PROD P. CHAPELLE	ISSUED SECT. 1
DATE 28 Apr 78	DATE 4-28-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA (6ØHZ)	KS1Ø-AB (5ØHZ)
45	9007651	WASHER, EXT TOOTH LOCK #10	95	95
46	9006565	KEPNUT, #10-32	48	48
47	9007786	TINNERMAN NUT, #10-32	43	43
48	9008203	KEPNUT, #¼-20	8	8
49	1213121-01	FILTER, FOAM	1	1
50	1212431-02	TAPE HOOK MOLDED	A/R	A/R
51	1211255-03	FILTER RUBBER FOAM	1	1
52	9007798	WASHER, NYLON	1	1
53	E-AD-7013688-0-0	INTER LOCK KIT	1	1
54	9007772-13	DAKOTA CLAMP	3	3
55	D-IA-7011223-2	BASKET WIRE CABLE	1	1
56	B-IA-7419496-0-0	BASKET BRACKET	2	2
57	3613272	LABEL GROUND	3	3
58	D-IA-7015170-0-0	WELDMENT CABLE BRACKET	1	1
59	DZ11-AA	8 LINE ASYNC EIA GROUP	1	1
60	D-IA-7014482-0-0	SWITCH PANEL ASSY	1	1
61	C-AD-7014491-0-0	CABLE CLAMP ASSY	6	6
62	C-MD-7413983-0-0	ENCLOSURE CLAMP	6	6
63	9007897	NYLOK NUT ¼-20	2	2
64	D-PS-1214914-0-0	AIR DUCT (KS1Ø)	1	1
65	9006560	KEPNUT #6-32	4	4
66	9006056-01	SCR PHL PAN HD ¼-20 x 50 LG	6	6

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø PROCESSOR UNIT ASSY	D-UA-KS1Ø-Ø-Ø	A	PL	KS1Ø-Ø-Ø		
	SHEET 3 OF 5			DIST		

DEC FORM
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. HUSON	CHECKED T Hallisey	SECTION
DATE 17 NOV 78	DATE 3-17-78	
ENG T Dall	PROD P. CHAPELLE	ISSUED SECT.
DATE 28 APR 78	DATE 4-28-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA (6ØHZ)	KS1Ø-AB (5ØHZ)
67	9006724	LOCKWASHER EXT TOOTH ¼	9	9
68	9007032	CABLE TIES MED 6 3/4 LONG	50	50
69	9009350	CABLE TIES LARGE	50	50
70	9007867	PUSH MOUNT	37	37
71	9009970	CLIP "U" SPEED	10	10
72	E-MD-7415471-0-0	STRIP, DOOR CLOSING	1	1
73	D-IA-7014323-0-0	BLOWER POWER CORD 115V	1	-
74	9006593	HEX NUT 3/8-16	4	4
75	9008922-09	HEX HD SCREW 3/8-16 x 1.00 LG	4	4
76	E-UA-KS1Ø-PA-Ø	CENTRAL PROCESSOR ASSY	1	1
77	C-MD-7419826-0-0	CLIP, CABLE (MASS BUS)	2	2
78	D-IA-7015137-0-0	POWER CORD, POWER SUPPLY	1	-
79	A-PS-3613210-0-0	LABLE, ADHESIVE BACKED, ELEC. DATA	2	2
80	D-IA-7015325-0-0	POWER SUPPLY POWER CORD	-	1
81	A-DC-7417095-0-0	CAUTION HIGH LEAKAGE DECAL	-	1
82	A-PL-DD11-DK-Ø	UNIT ASSY, DD11-DK(9 SLOT)	1	1
83	D-IA-7014324-0-0	BLOWER POWER CORD 23ØV	-	1
84	9007959	WASHER, EXT TOOTH LOCK .45 ID	4	4
85	9006074-02	SCR, FLAT HD PHL #10-32 x .62 LONG	6	6
86	C-IA-7008288-8F	CABLE ASSY	1	1
87	C-IA-7015508-0-0	CABLE ASSY 861 TO PWR DIST BD	1	1
88	9006563	KEP NUT #8-32	4	4

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø PROCESSOR UNIT ASSY	D-UA-KS1Ø-Ø-Ø	A	PL	KS1Ø-Ø-Ø		
	SHEET 4 OF 5	DIST				

MR

DEC FORM
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. HUSON	CHECKED T Hallisey	SECTION 1
DATE 17 NOV 77	DATE 3-17-77	
ENG T Dall	PROD P. CHAPELLE	ISSUED SECT. 1
DATE 28 APR 78	DATE 4-28-78	

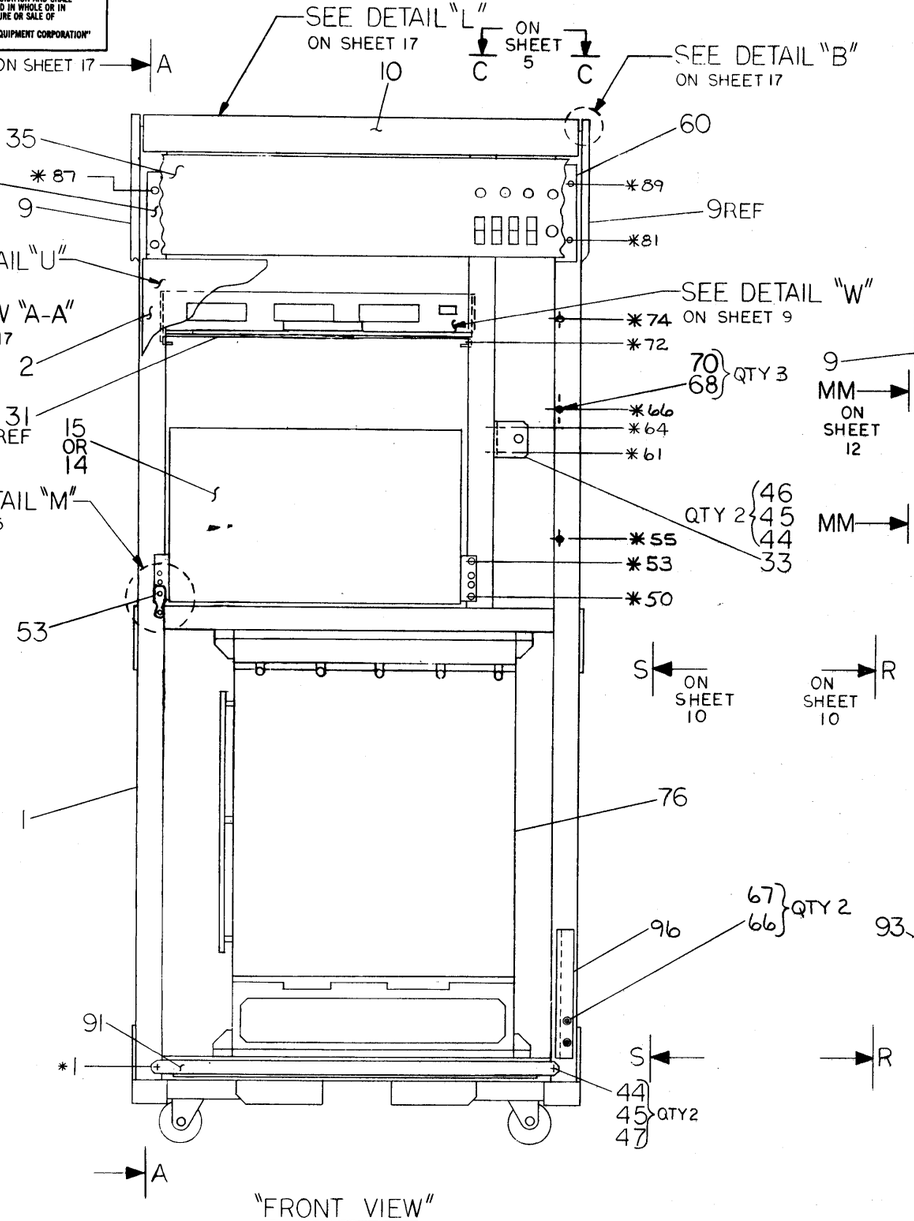
ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA (6ØHZ)	KS1Ø-AB (5ØHZ)
89	9006248-09	SCREW HEX HD ¼-20 x 1 5/8	1	1
90	D-IA-7420372-0-0	MASS BUS CABLE TROUGH CLAMP	1	1
91	D-MD-7420636-0-0	SCREEN, FRONT DRIP	1	1
92	C-MD-7420390-0-0	BRACKET, INTERLOCK (BA11K)	1	1
93	D-MD-7419286-0-0	INTER CABINET DRIP SHEILD	2	2
94	A-SP-3615670-0-0	FIBERGLASS PROTECTIVE TAPE	A/R	A/R
95	BCØ5D-25	EIA EXTENSION CABLE	1	1
96	C-MD-7418685-0-0	STRIP, DOOR CLOSING	1	1
97	9008264	ADHESIVE BACKED MOUNT	43	43
98	9007594	HYBOND ADHESIVE	A/R	A/R
99	9006035-01	SCR, PAN HD PHL 8-32 X 25 LONG	4	4
100	9006637	WASHER, INT TOOTH LOCK	4	4

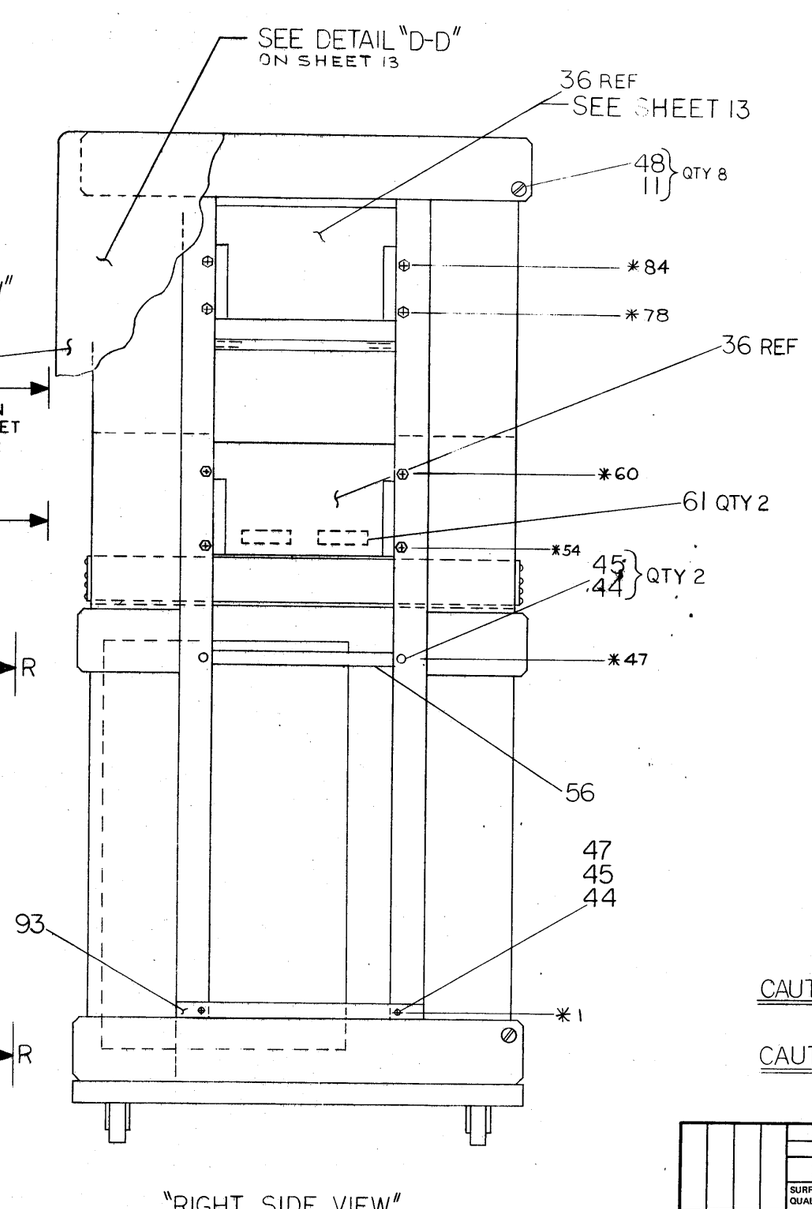
TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø PROCESSOR UNIT ASSY	D-UA-KS1Ø-Ø-Ø	A	PL	KS1Ø-Ø-Ø		
	SHEET 5 OF 5	DIST				

MR

DEC FORM
DRA 110

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CAUTION: NOTES ON SHEET 20

CAUTION: OFF SHEETS PARTS LIST EXISTS SEE A-PL-KSIØ-Ø-Ø

REVISIONS	REV.	CHANGE NO.	CHK
MADEFACE P-1555			

DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN ✓ MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN.	BA 4/27/78	
CHK'D		
ENG.		4/28/78
PROJ. ENG. T. Pinder		4/28/78
PROD. P. CHAPELLE		4/28/78
NEXT HIGHER ASSY.		
SCALE 1/4		
SHEET 1 OF 31		

FIRST USED ON KSIØ

digital

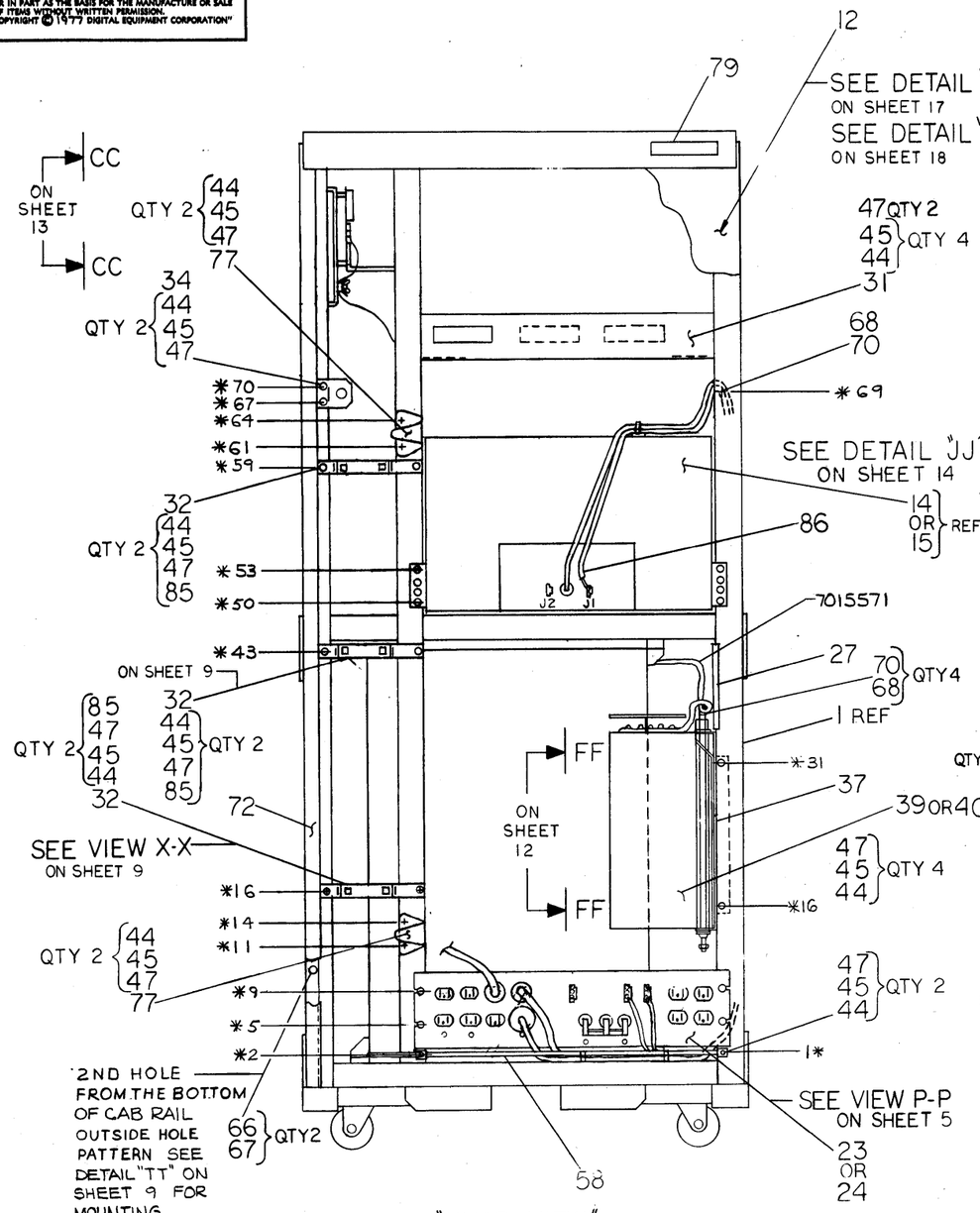
TITLE
KSIØ PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KSIØ-Ø-Ø	

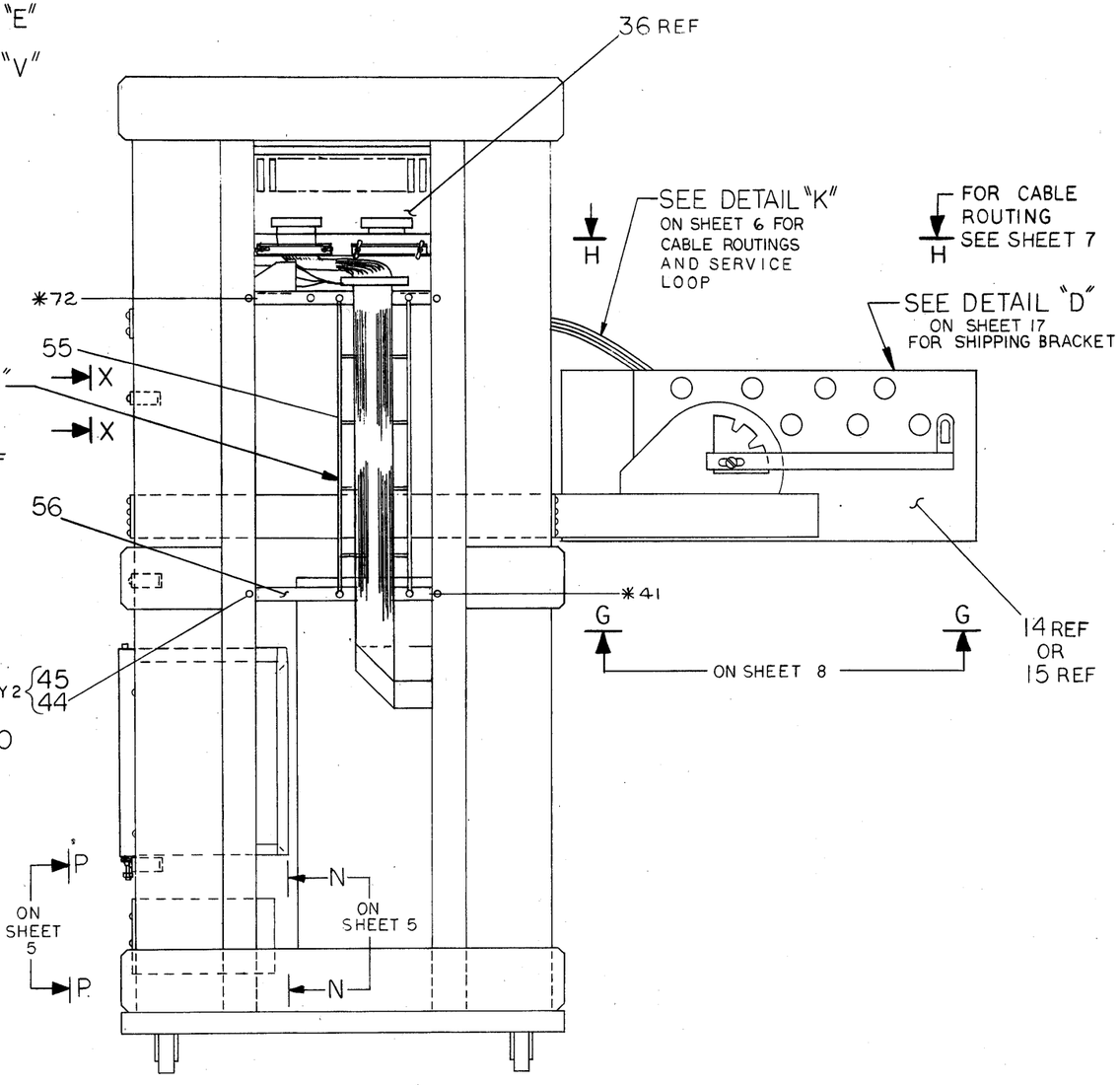
DIST.

DEC FORM NO. DRD 100-C

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"REAR VIEW"



"LEFT SIDE VIEW"

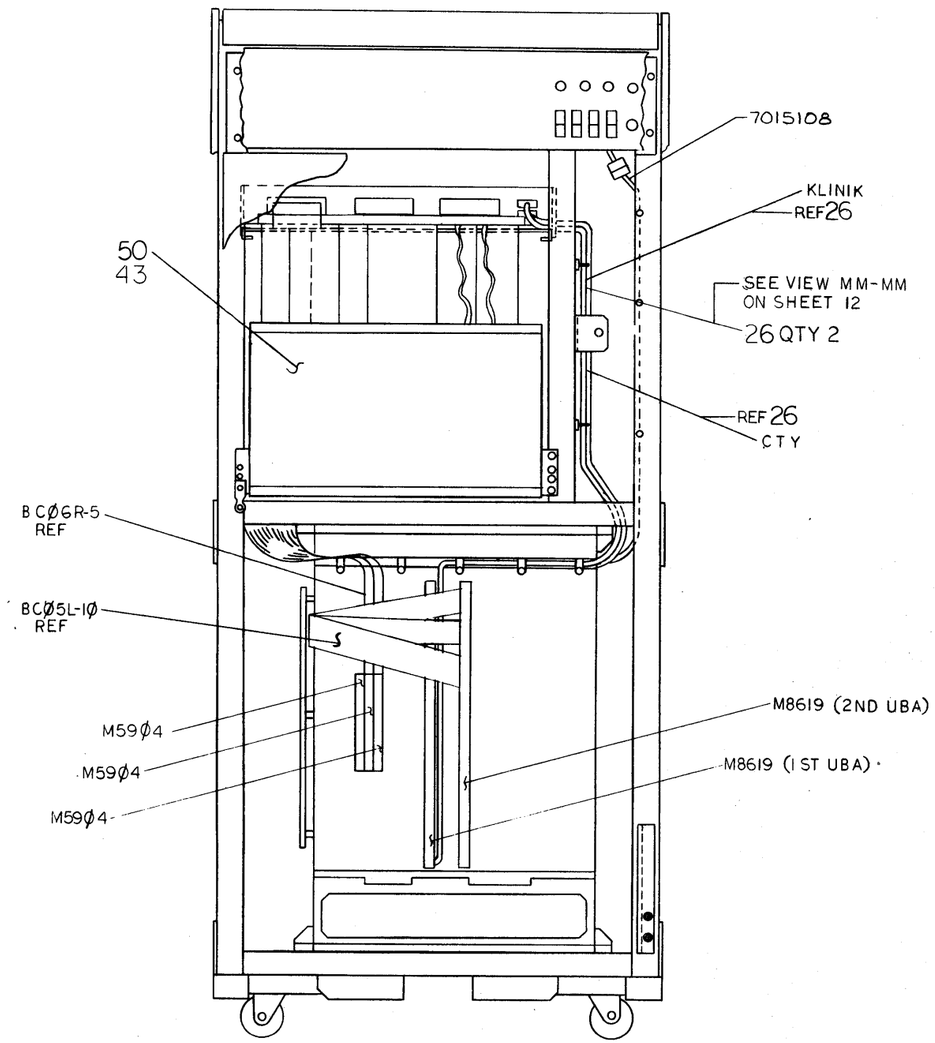
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE KSIØ PROCESSOR UNIT ASSY		SIZE D	CODE UA	NUMBER KSIØ-Ø-Ø
SCALE 1/4	SHEET 2 OF 31	DIST.		REV.

DEC FORM NO. DRD 137

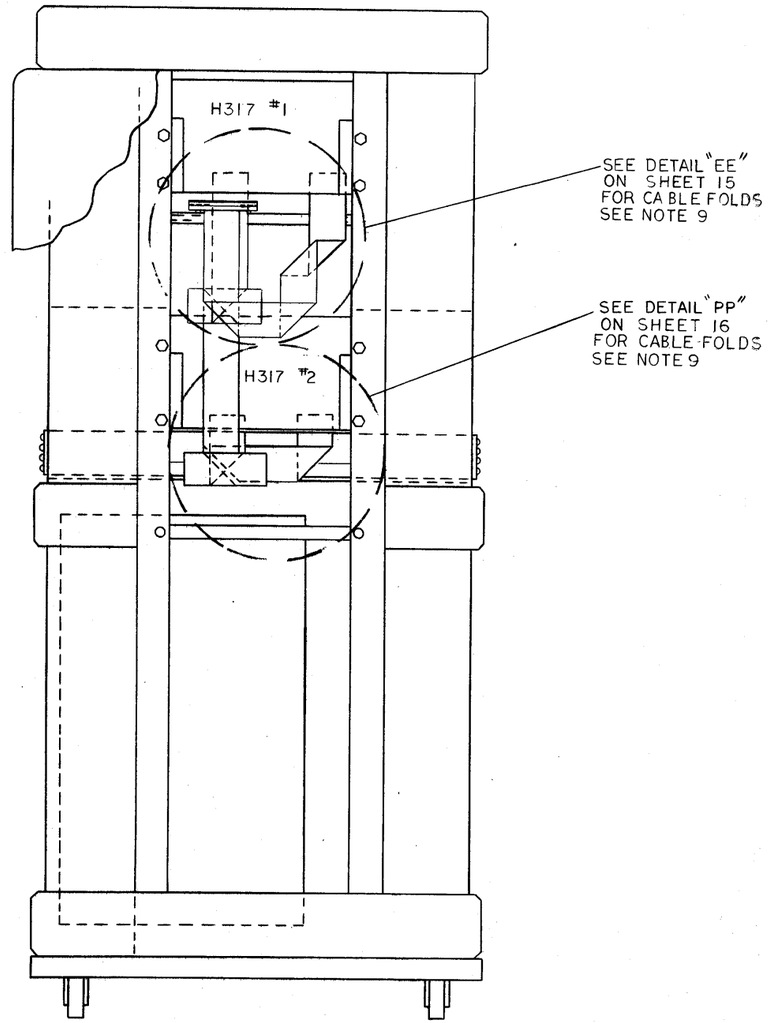
MR

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"FRONT VIEW"

FOR CABLING SEE TO
FROM CHART ON SHEET 14



"RIGHT SIDE VIEW"

REVISIONS		
CHK	CHANGE NO.	REV.

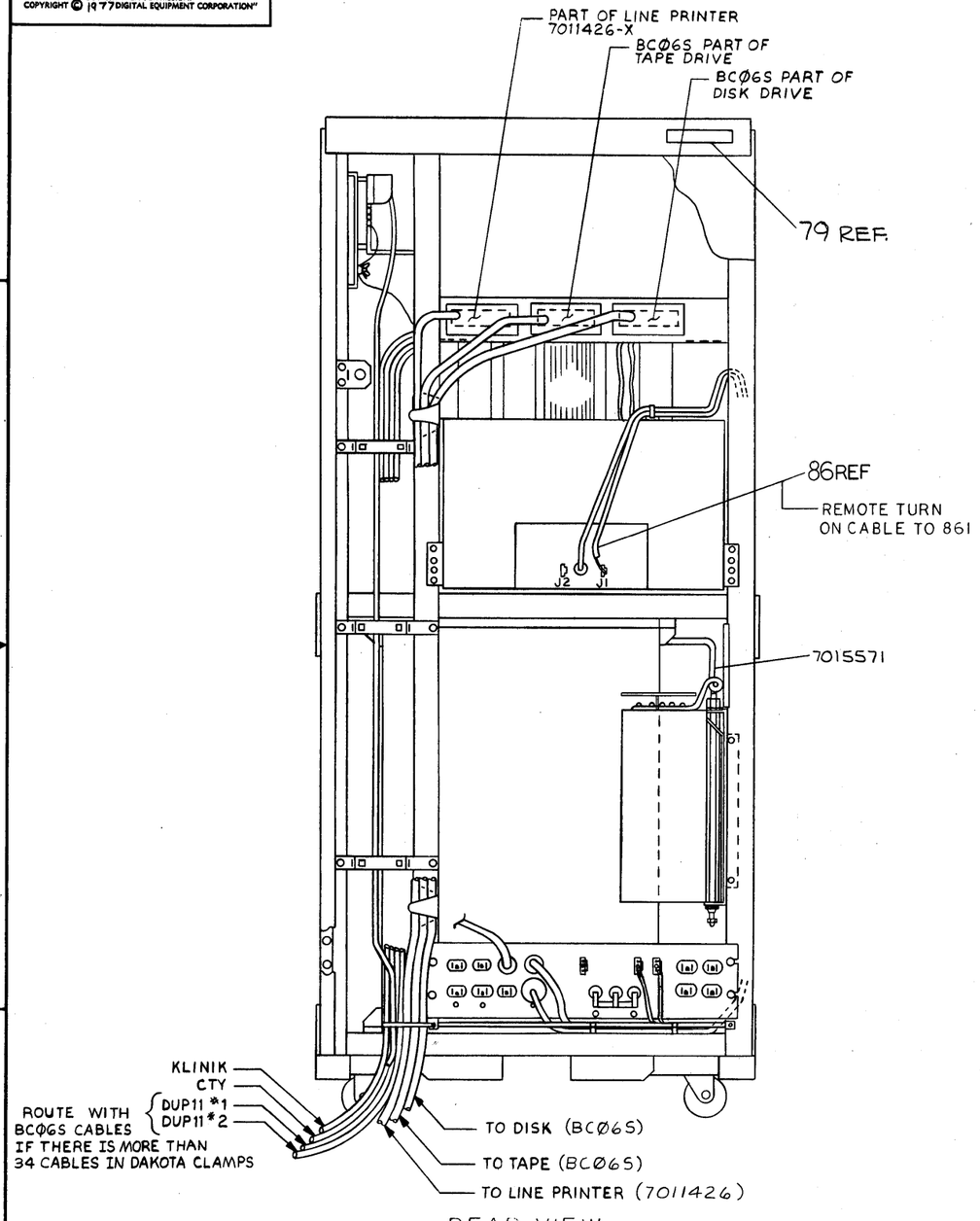
TITLE	KSIO PROCESSOR UNIT ASSY			
SCALE	NONE	SHEET 3 OF 31	SIZE D / CODE UA	NUMBER KSIØ-Ø-Ø / REV.
		DIST.		

MANSPACE P-1585

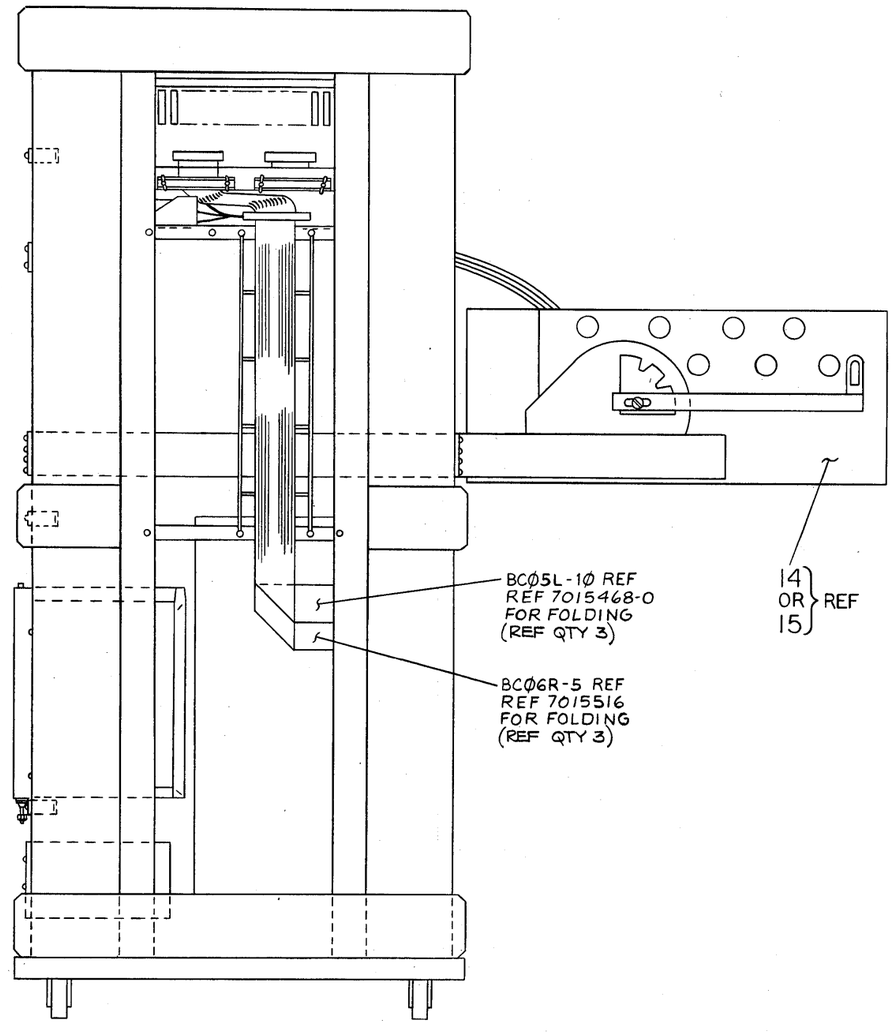
DEC FORM NO. ORD 137

M12

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REAR VIEW



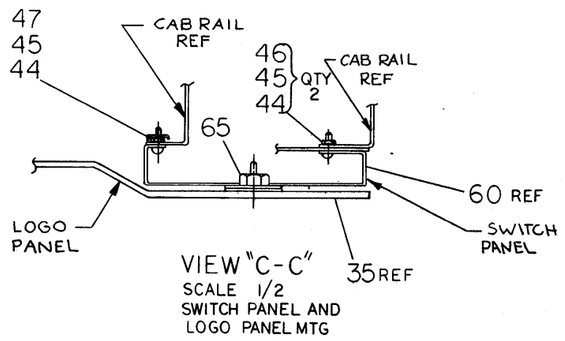
LEFT SIDE

REVISIONS		
CHK	CHANGE NO.	REV.

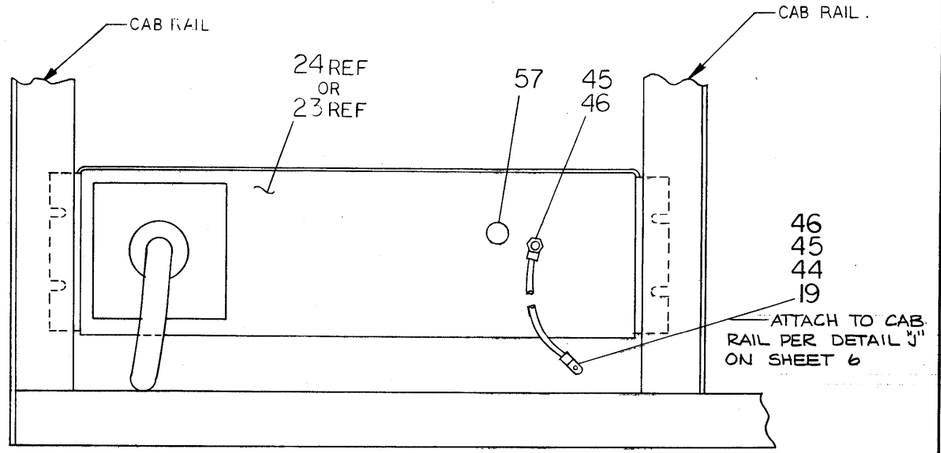
TITLE	SIZE	CODE	NUMBER	REV.
KSIO PROCESSOR UNIT ASSY	D	UA	KSIØ-Ø-Ø	
SCALE NONE	SHEET 4 OF 31	DIST.		

DEC FORM NO. DRD 137

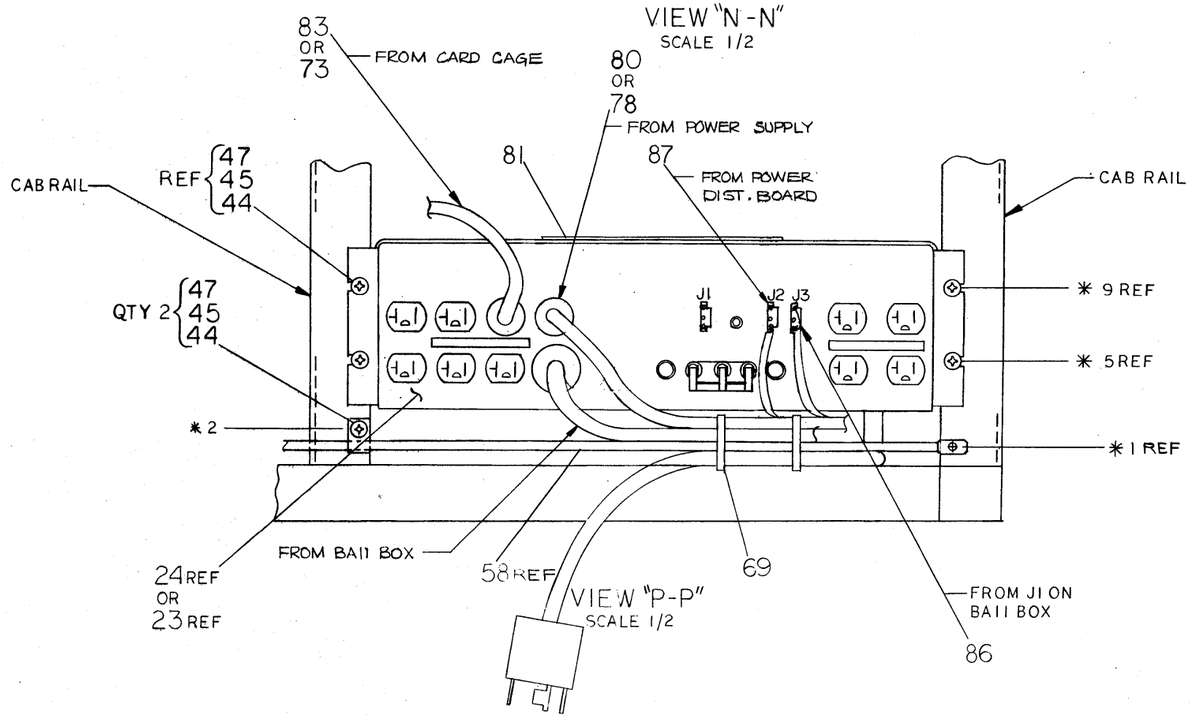
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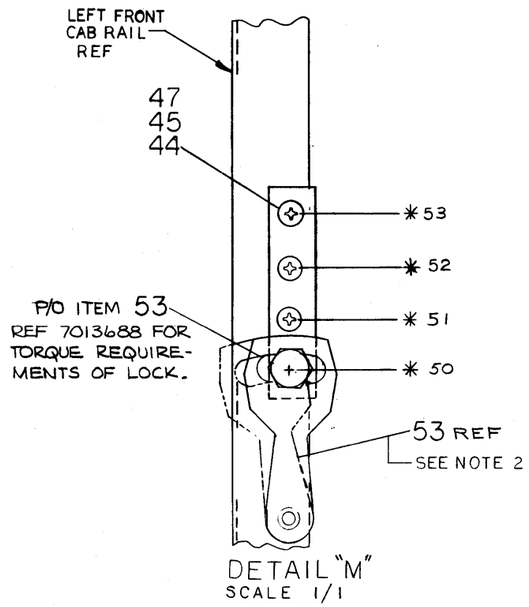


VIEW "C-C"
SCALE 1/2
SWITCH PANEL AND LOGO PANEL MTG



VIEW "N-N"
SCALE 1/2





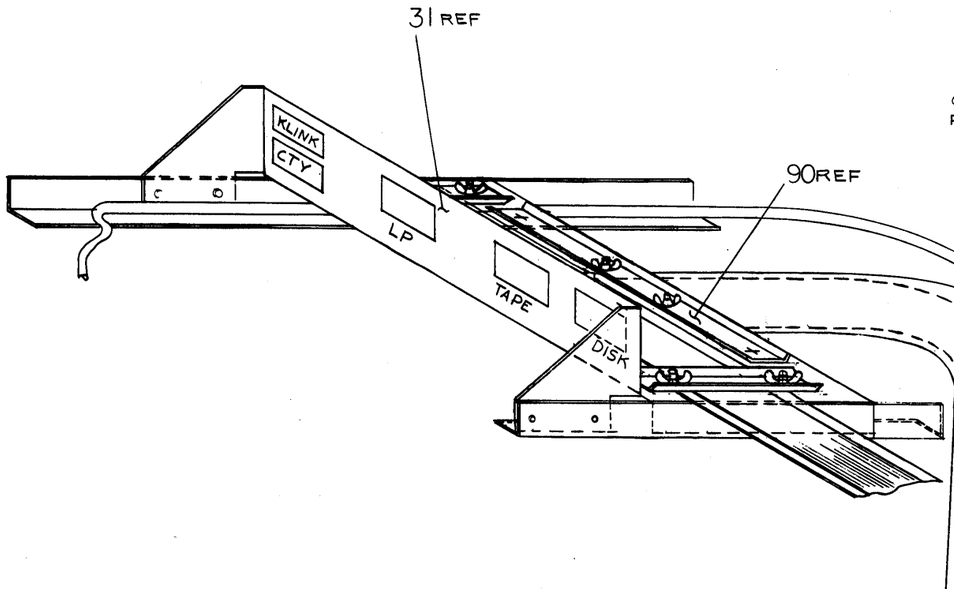
DETAIL "M"
SCALE 1/1

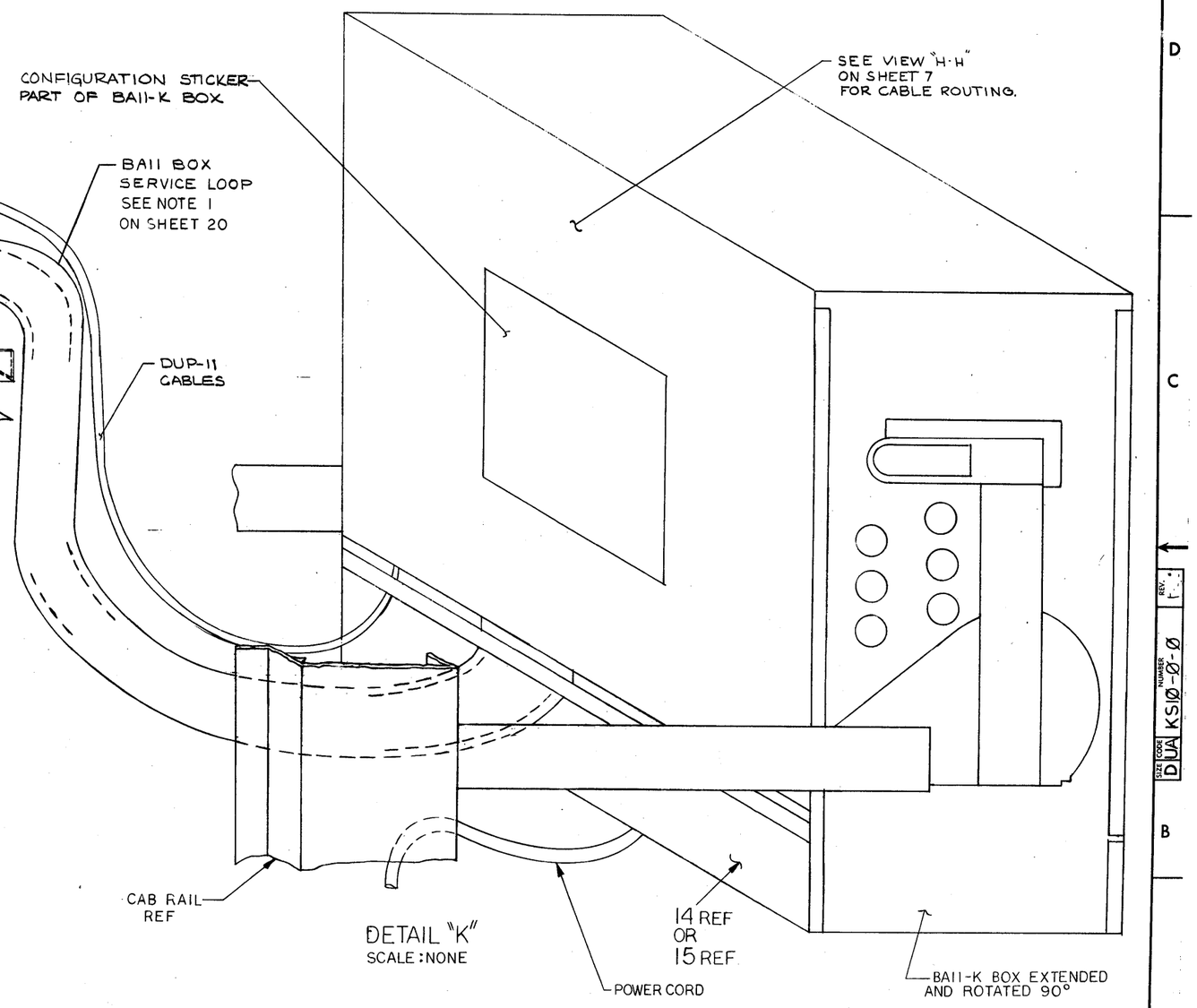
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KSIØ PROCESSOR UNIT ASSY	D	UA	KSIØ-Ø-Ø	
SCALE 1/4	SHEET 5 OF 31		DIST.	

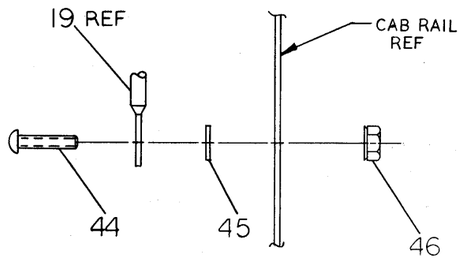
DEC FORM NO. DRD 137

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DETAIL "K"
SCALE : NONE



DETAIL "J"
SCALE 1/1
"TYP GROUND STRAP"
MOUNTING HARDWARE
GROUNDING TO RAIL

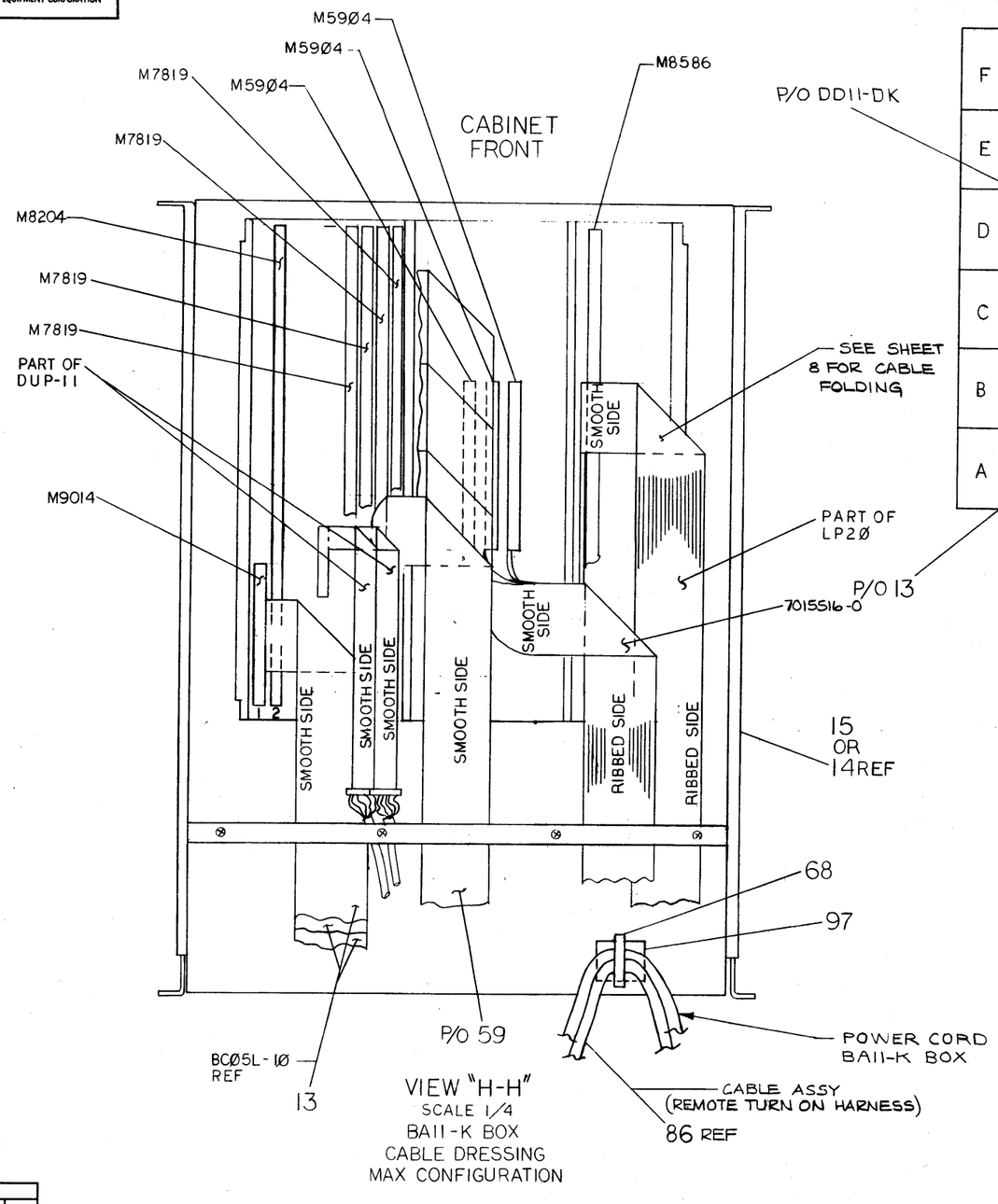
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY	SIZE/CODE	NUMBER	REV.
SCALE 1/1	SHEET 6 OF 31	D UA	KSIØ-Ø-Ø	
		DIST.		

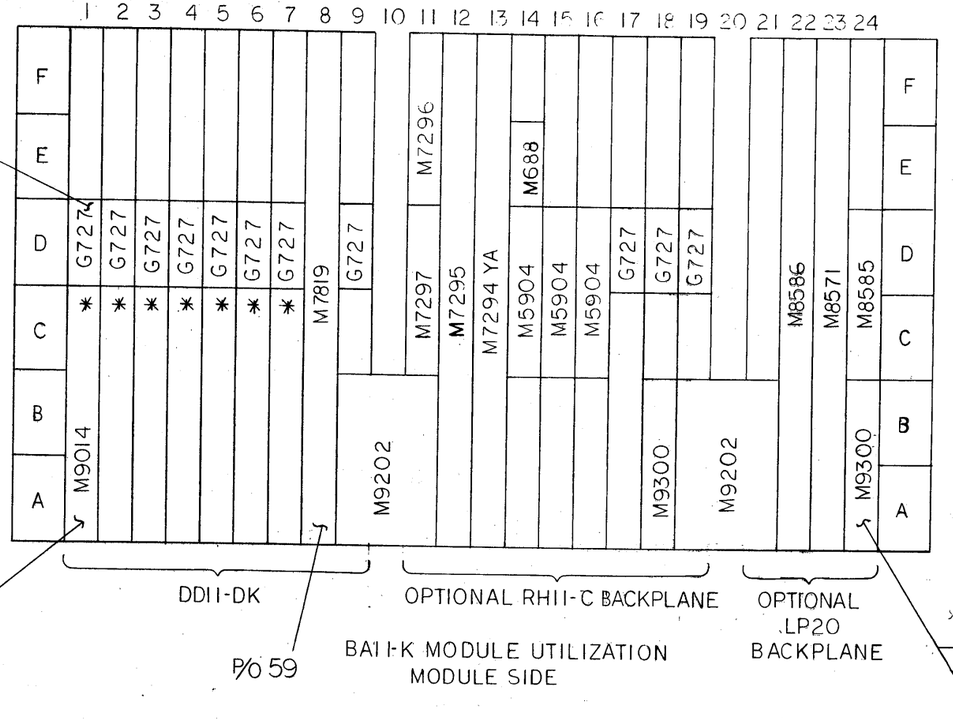
DEC FORM NO. DRD 137

MR

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VIEW "H-H"
SCALE 1/4
BA11-K BOX
CABLE DRESSING
MAX CONFIGURATION



BA11-K MODULE UTILIZATION
MODULE SIDE

OPTION VARIATIONS *

SLOTS	ASYNC LINES 8-15	ASYNC LINES 16-23	ASYNC LINES 24-32	1ST SYNC	2ND SYNC
2				M8204 KMC11	
3					M7867 DUP11
4				M7867 DUP11	
5			M7819 DZ11		
6		M7819 DZ11			
7	M7819 DZ11				
8	M7819 STD				

REVISIONS

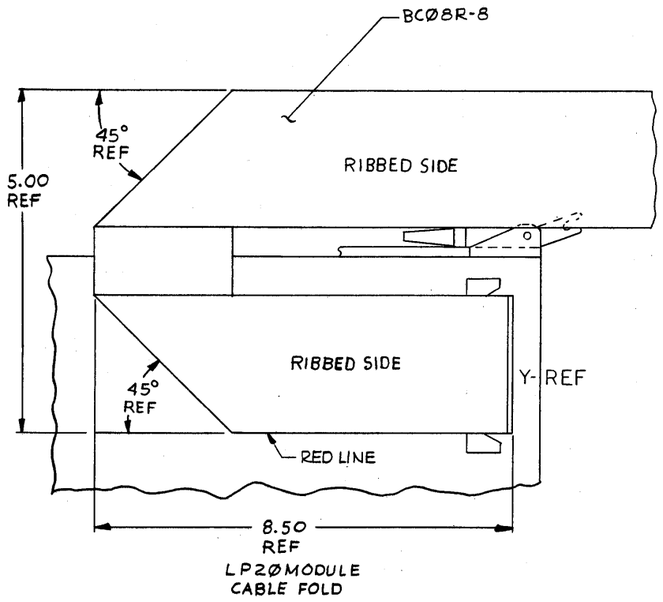
CHK	CHANGE NO.	REV.

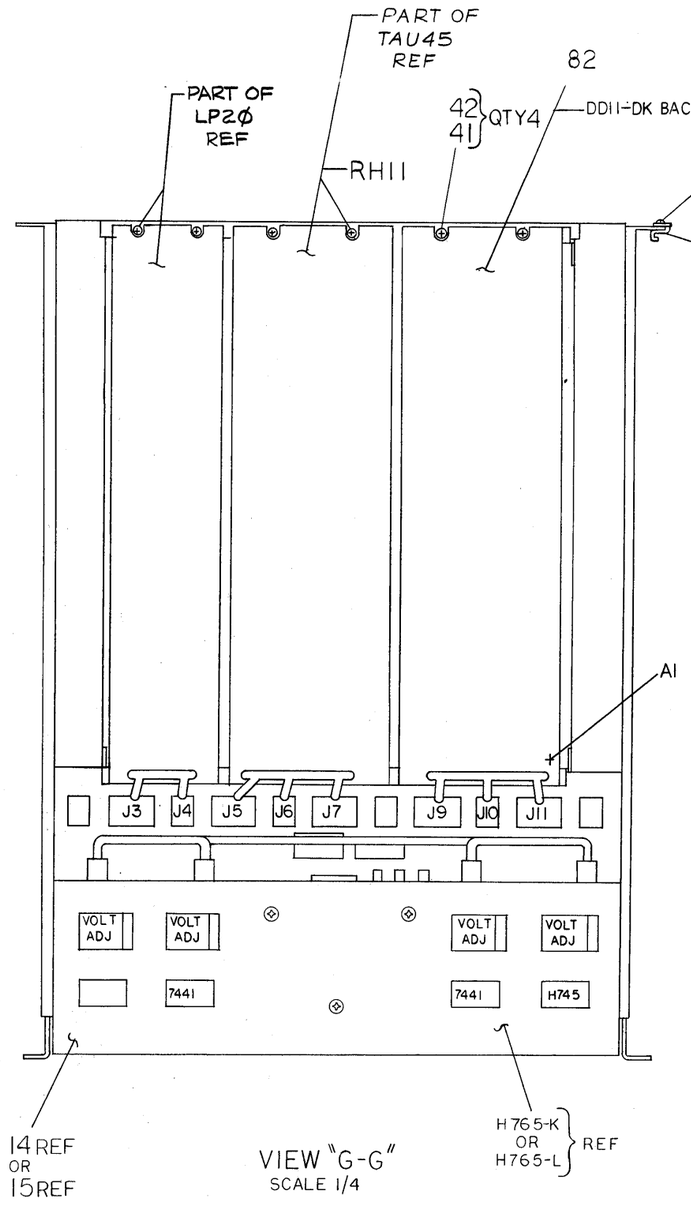
DEC FORM NO. DRD 137

TITLE KSIØ PROCESSOR UNIT ASSY
SIZE D | CODE UA | NUMBER KSIØ-Ø-Ø | REV.
SCALE 1/4 | SHEET 7 OF 31 | DIST.

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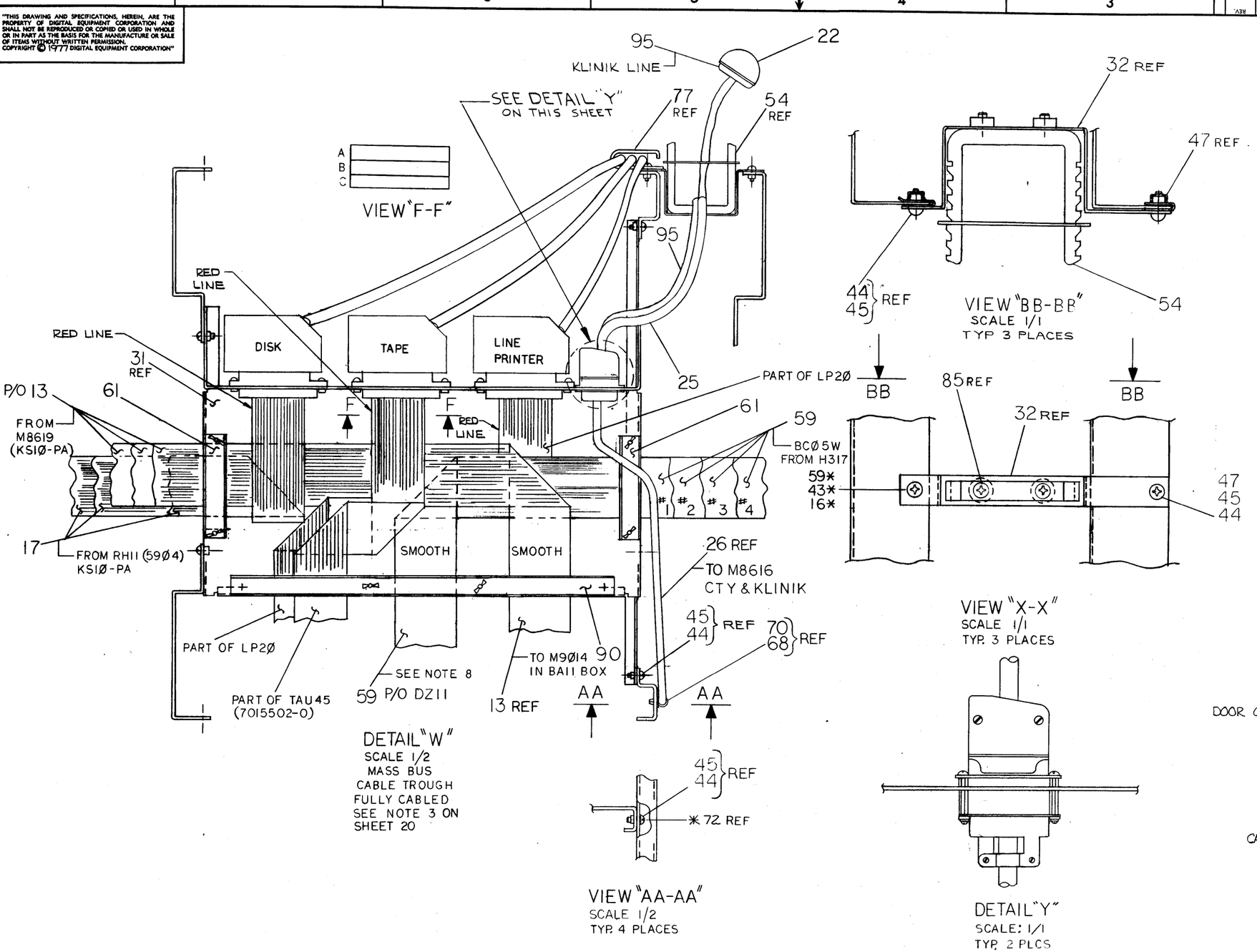
VIEW "G-G"
SCALE 1/4

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY				
SCALE 1/4	SHEET 8 OF 31	SIZE D	CODE UA	NUMBER KSIØ-Ø-Ø	REV. 4
		DIST.			

DEC FORM NO. DRD 137

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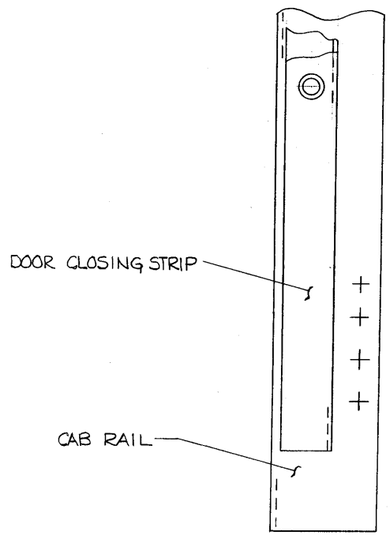
DETAIL "W"
SCALE 1/2
MASS BUS CABLE TROUGH FULLY CABLED
SEE NOTE 3 ON SHEET 20

VIEW "AA-AA"
SCALE 1/2
TYP. 4 PLACES

VIEW "BB-BB"
SCALE 1/1
TYP 3 PLACES

VIEW "X-X"
SCALE 1/1
TYP. 3 PLACES

DETAIL "Y"
SCALE: 1/1
TYP. 2 PLCS



DETAIL "TT"
"DOOR CLOSING STRIP MOUNTING"
SCALE 1/1

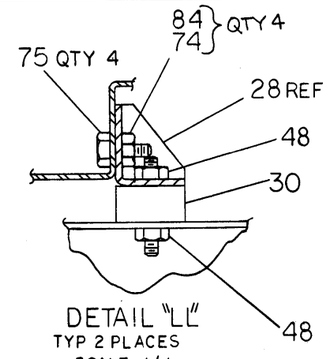
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KSIØ PROCESSOR UNIT ASSY	D	UA	KSIØ-Ø-Ø	
SCALE 1/4 — SHEET 9 OF 31	DIST.			

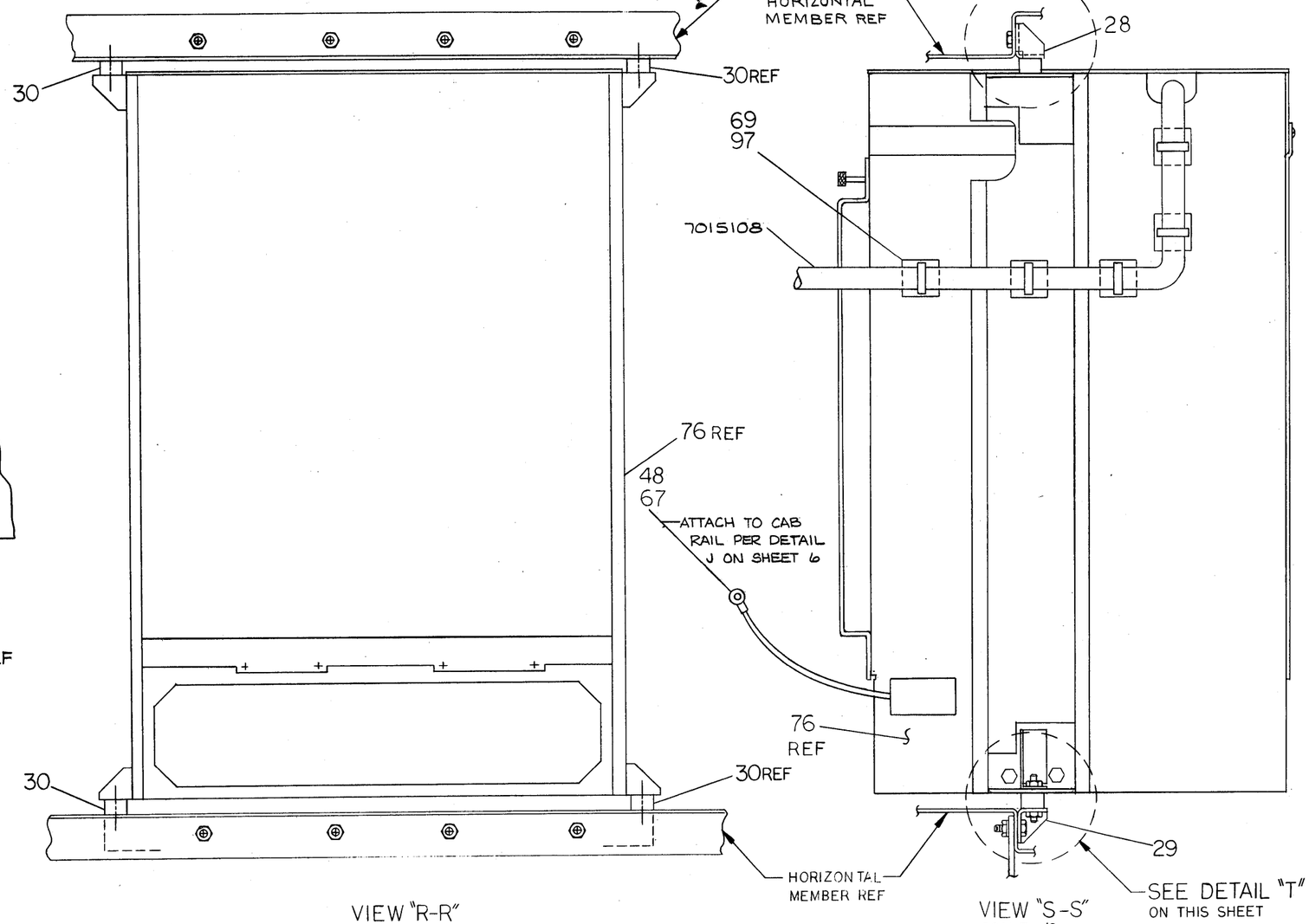
DEC FORM NO. DRO 137

mR

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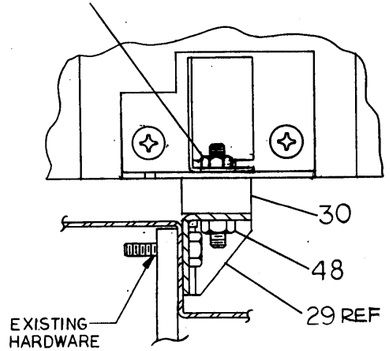


DETAIL "LL"
TYP 2 PLACES
SCALE 1/1



VIEW "R-R"
SCALE 1/2
"FRONT VIEW OF
CARD CAGE"

VIEW "S-S"
SCALE 1/2
"SIDE VIEW OF
CARD CAGE"



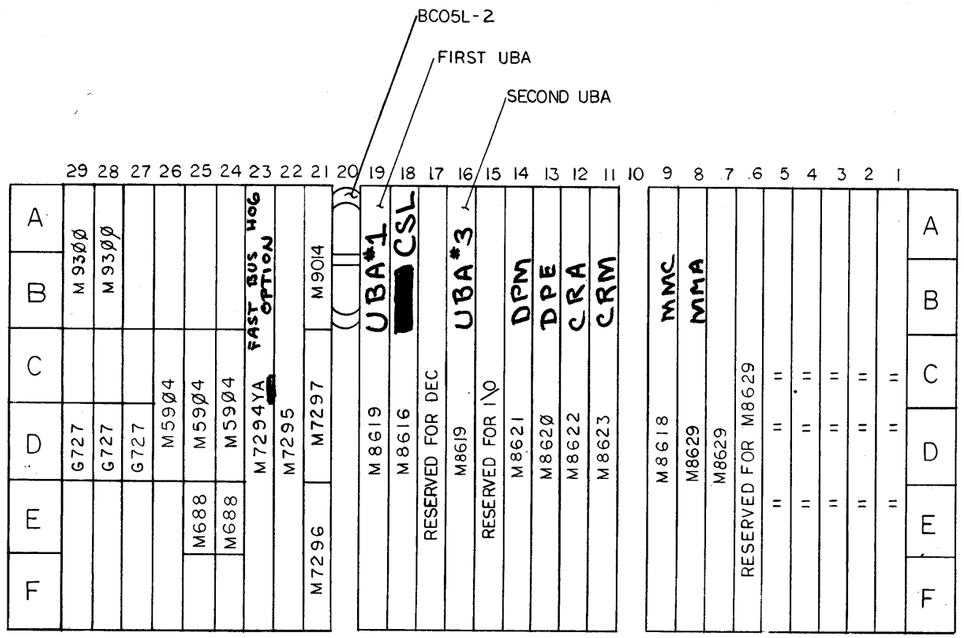
DETAIL "T"
TYP 2 PLACES
SCALE 1/1

REVISIONS		
CHK	CHANGE NO.	REV.

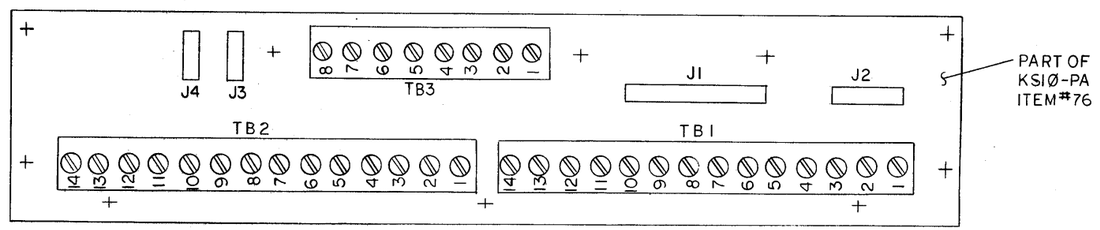
TITLE	KSIØ PROCESSOR UNIT ASSY			SIZE	CODE	NUMBER	REV.
SCALE	1/4	SHEET 10 OF 31		D	UA	KSIØ-Ø-Ø	
			DIST.				

DEC FORM NO. DRD 137

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KSIO-PA M.U.
FOR REFERENCE
MODULE SIDE



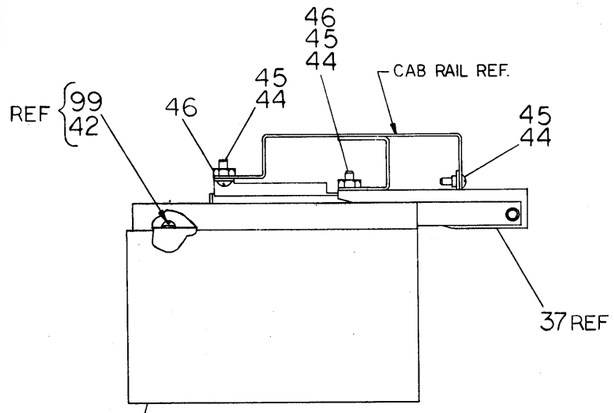
POWER DISTRIBUTION BOARD
TERMINAL BLOCK DESIGNATIONS.

REVISIONS		
CHK	CHANGE NO.	REV.

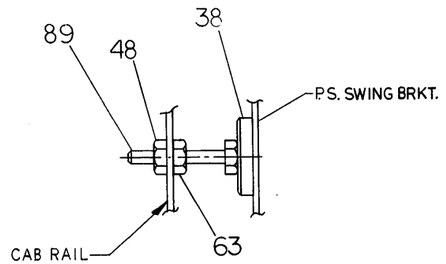
TITLE	KSIØ PROCESSOR UNIT ASSY				
SCALE	1/4	SHEET 11 OF 31	SIZE D	CODE UA	NUMBER KSIØ-Ø-Ø
			DIST.		REV.

DEC FORM NO. DRD 137

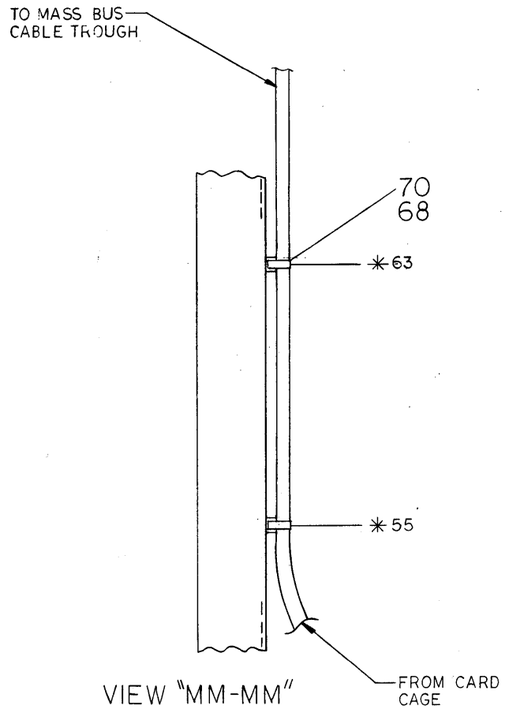
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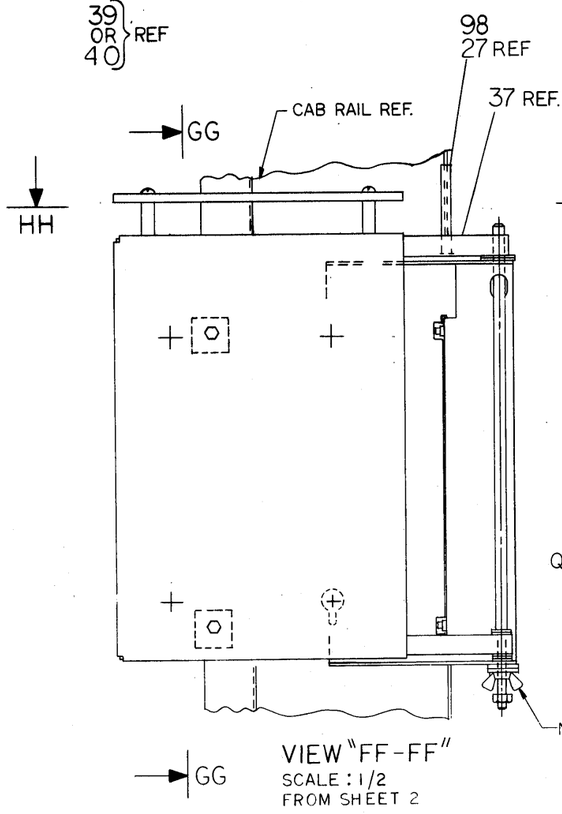
VIEW "HH-HH"
SCALE: 1/2



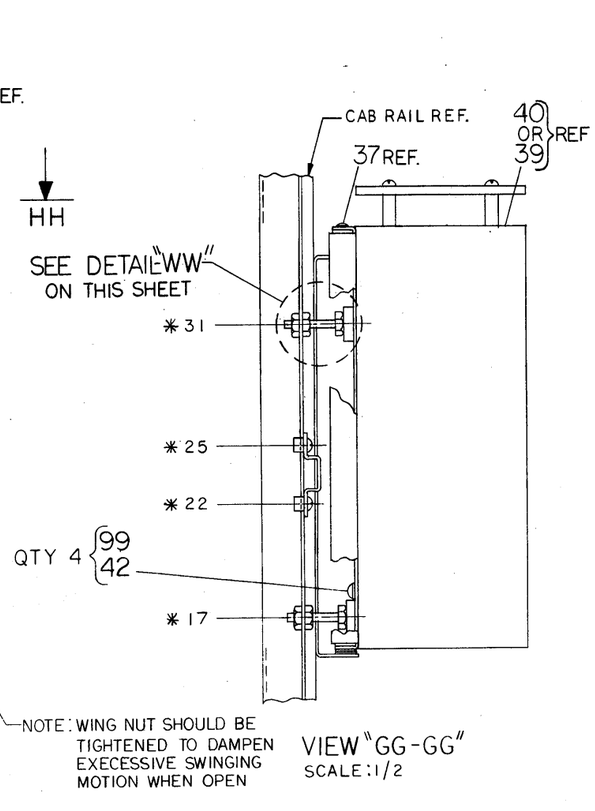
DETAIL-"WW"
TYP 2 PLCS
SCALE 1/1



VIEW "MM-MM"
SCALE: 1/1



VIEW "FF-FF"
SCALE: 1/2
FROM SHEET 2



NOTE: WING NUT SHOULD BE TIGHTENED TO DAMPEN EXECESSIVE SWINGING MOTION WHEN OPEN

VIEW "GG-GG"
SCALE: 1/2

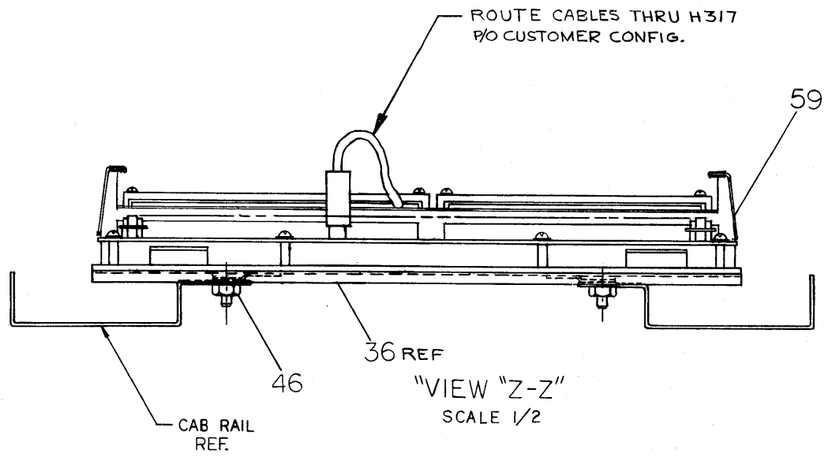
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY		
SCALE 1/4	SHEET 12 OF 31	SIZE D	CODE UA
DIST.		NUMBER KSIØ-Ø-Ø	REV.

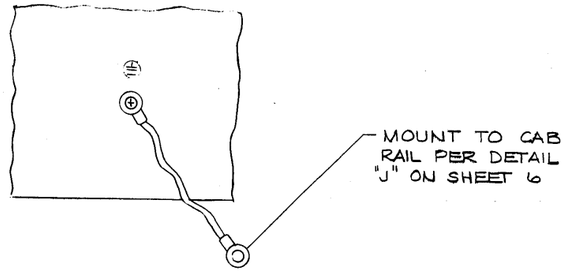
DEC FORM NO. DRD 197

MR

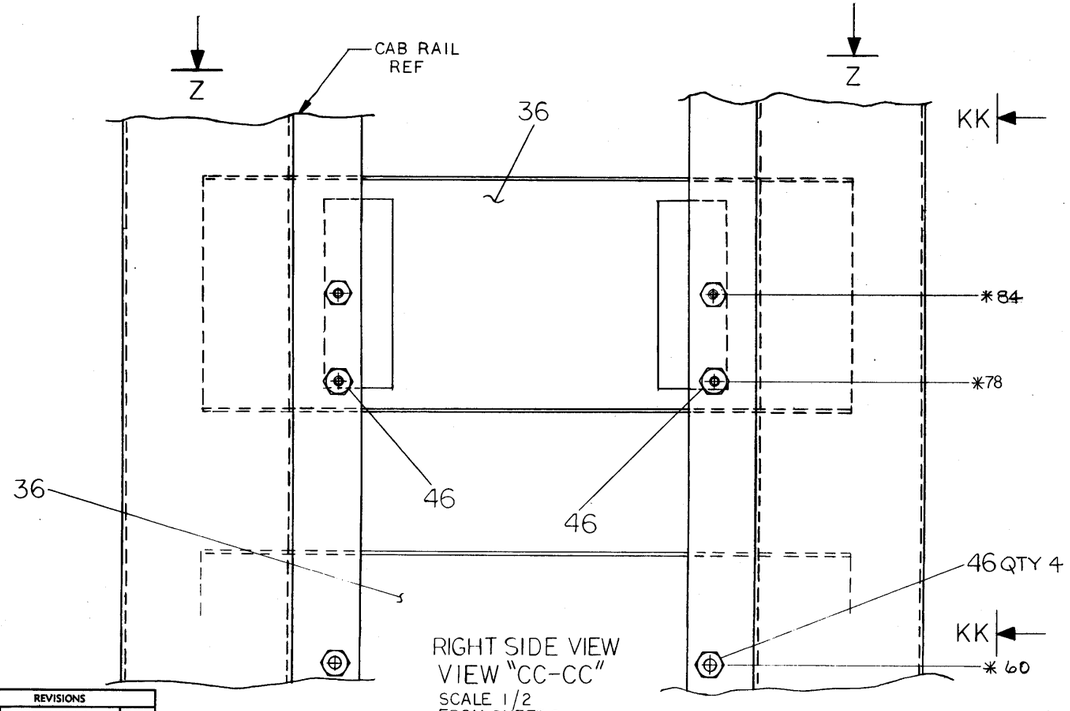
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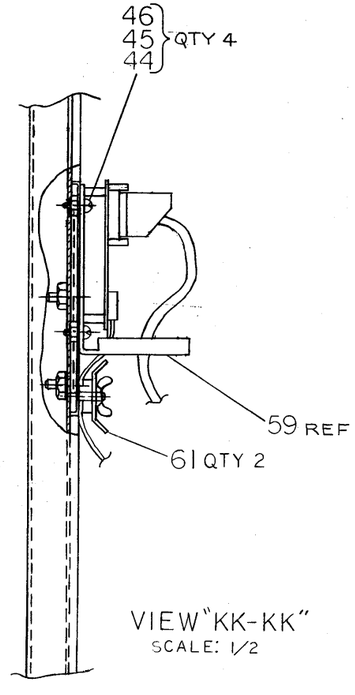
"VIEW "Z-Z"
SCALE 1/2



DETAIL "D D"
SCALE: NONE
END PANEL
GROUNDING



RIGHT SIDE VIEW
VIEW "CC-CC"
SCALE 1/2
FROM SHEET 2



VIEW "KK-KK"
SCALE: 1/2

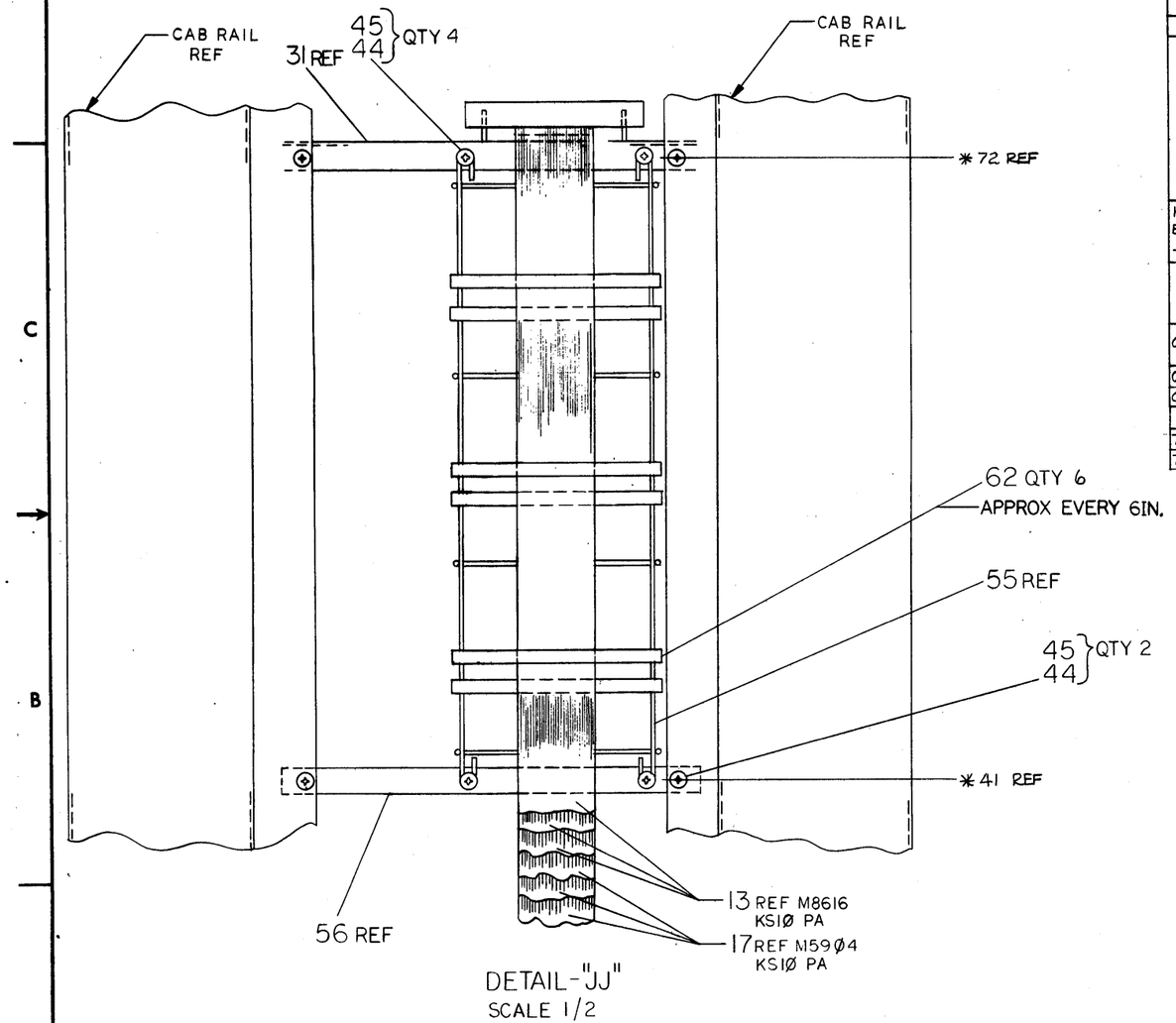
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY		
SCALE 1/4	SHEET 13 OF 31	SIZE D	CODE UA
NUMBER	KSIØ-Ø-Ø	REV.	
DIST.			

DEC FORM NO. DRD 137

mr

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DETAIL-"JJ"
SCALE 1/2

HARNESS CONNECTION CHART

ITEM NO.	FROM MODULE	FROM SLOT	FROM CABLE ORIENTATION	CONNECTION	TO CABLE ORIENTATION	TO CONNECTOR	OPTION	REMARKS
17	M59Ø4	CDØ4	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK-A	RH11	TO DISK
	M59Ø4	CDØ5	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK-B		
	M59Ø4	CDØ6	RED LINE FRONT, RIB RIGHT	J1	RED LINE LEFT RIB UP	DISK-C		
26 QTY 2	M8616	18		J2 J1		CTY KLINIK	X	TO TERMINAL
25				CTY				TERMINAL
95				KLINIK				MODEM
59	M7819	8	SEE DETAIL ON SHEET 21	J1	SEE DETAIL ON SHEETS 15 & 16	H317#1 J18	DZ11	
OPTIONS	M7819	7		J1		H317#1 J2Ø	DZ11	
	M7819	6		J1		H317#2 J18	DZ11	
	M7819	5		J1		H317#2 J2Ø	DZ11	
	DUP11	3&4	SEE DETAIL ON SHEET 21					TERM OR MODEM
	LP2Ø	22	SEE DETAIL ON SHEET 8	J1	RED LINE LEFT, RIB UP	LP-B		LINE PRINTER
	M59Ø4	CDØ4	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE-A	RH11	TO TAPE
	M59Ø4	CDØ5	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE-B		
	M59Ø4	CDØ6	RED LINE UP RIB RIGHT	J1	RED LINE LEFT, RIB UP	TAPE-C		
KSIØ-PA BCØ5L -2	M8619	19	RED LINE TOP SMOOTH RIGHT	J1	RED LINE TOP SMOOTH LEFT	M9Ø14-J1	RH11 SLOT 1	INTERNAL UNIBUS A PA
	M8619	19	RED LINE TOP SMOOTH RIGHT	J2	RED LINE TOP SMOOTH LEFT	M9Ø14-J2		
	M8619	19	RED LINE TOP SMOOTH RIGHT	J3	RED LINE TOP SMOOTH LEFT	M9Ø14-J3		
13	M8619	16	RED LINE TOP SMOOTH RIGHT	J1	RIB RIGHT RED LINE REAR	M9Ø14-J1	ABØ1 BA11 DRAW DD11-DK	INTERNAL UNIBUS B BA11-K
	M8619	16	RED LINE TOP SMOOTH RIGHT	J2	RIB RIGHT RED LINE REAR	M9Ø14-J2		
	M8619	16	RED LINE TOP SMOOTH RIGHT	J3	RIB RIGHT RED LINE REAR	M9Ø14-J3		
OPTION	BCØ6S		MASSBUS CABLE TROUGH	DISK		DEVICE	DISK	DISK
OPTION	BCØ6S		MASSBUS CABLE TROUGH	TAPE		DEVICE	TAU 45	TAPE
OPTION	7011426		MASSBUS CABLE TROUGH	LINE PRINTER		DEVICE	LP2Ø	LP
86	861		MASSBUS CABLE TROUGH	J1		J1	BA11	REMOTE TURN ON
73/83			CARD CAGE BLOWER			861		POWER CORD
78/80			POWER SUPPLY			861		POWER CORD

REVISIONS

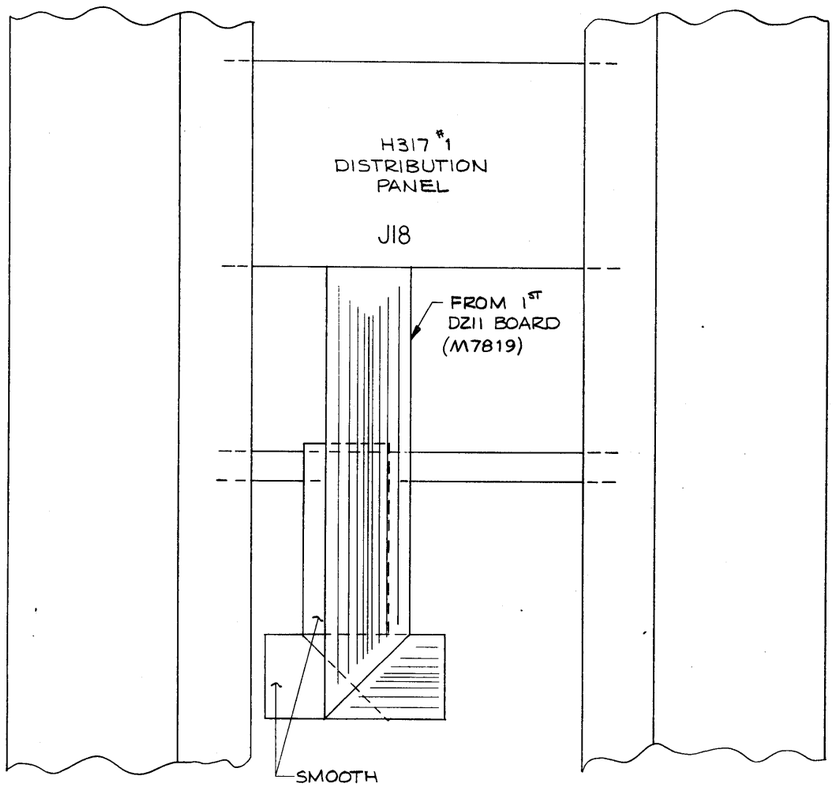
CHK	CHANGE NO.	REV.

DEC FORM NO. DRD 127

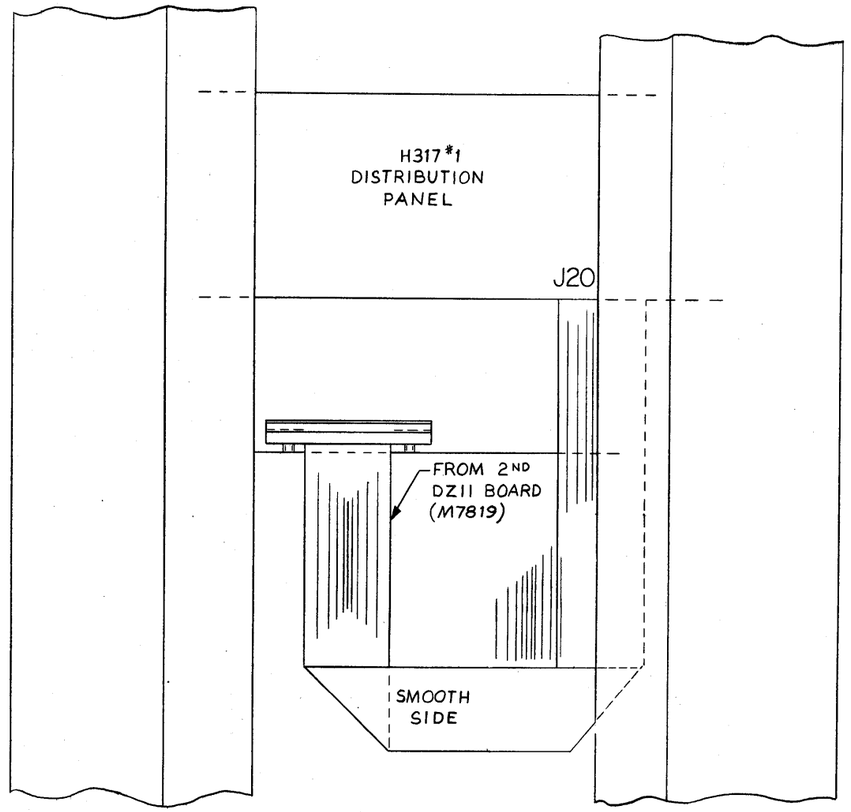
TITLE: KSIØ PROCESSOR UNIT ASSY
SCALE: 1/4 SHEET 14 OF 31
SIZE: D CODE: UA NUMBER: KSIØ-Ø-Ø REV.
DIST.

MR

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CAB RIGHT SIDE
DZ11 CABLE ROUTING



CAB RIGHT SIDE
DZ11 CABLE ROUTING

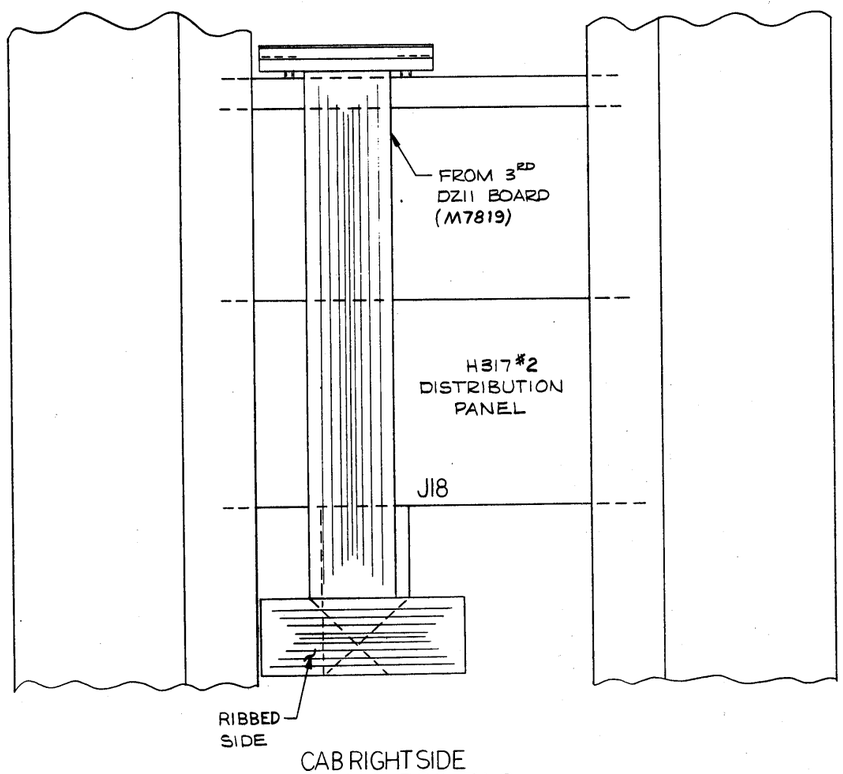
DETAIL "EE"
SCALE 1/2

REVISIONS		
CHK	CHANGE NO.	REV.

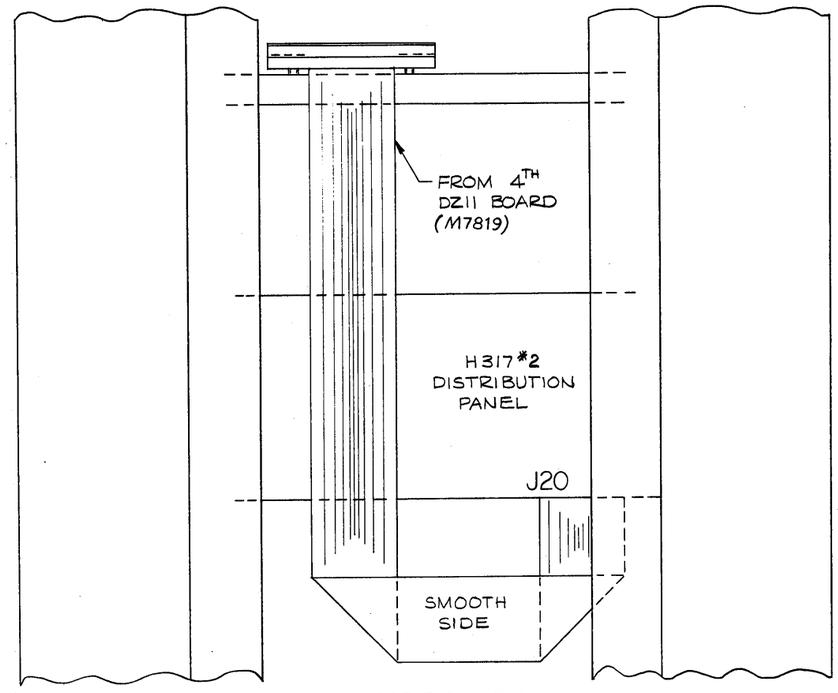
TITLE	SIZE	CODE	NUMBER	REV.
KSIØ PROCESSOR UNIT ASSY	D	UA	KSIØ-Ø-Ø	
SCALE 1/4 SHEET 15 OF 31	DIST.			

DEC FORM NO. DRD 137

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CAB RIGHT SIDE
DZ11 CABLE ROUTING



CAB RIGHT SIDE
DZ11 CABLE ROUTING

DETAIL "PP"
SCALE 1/2

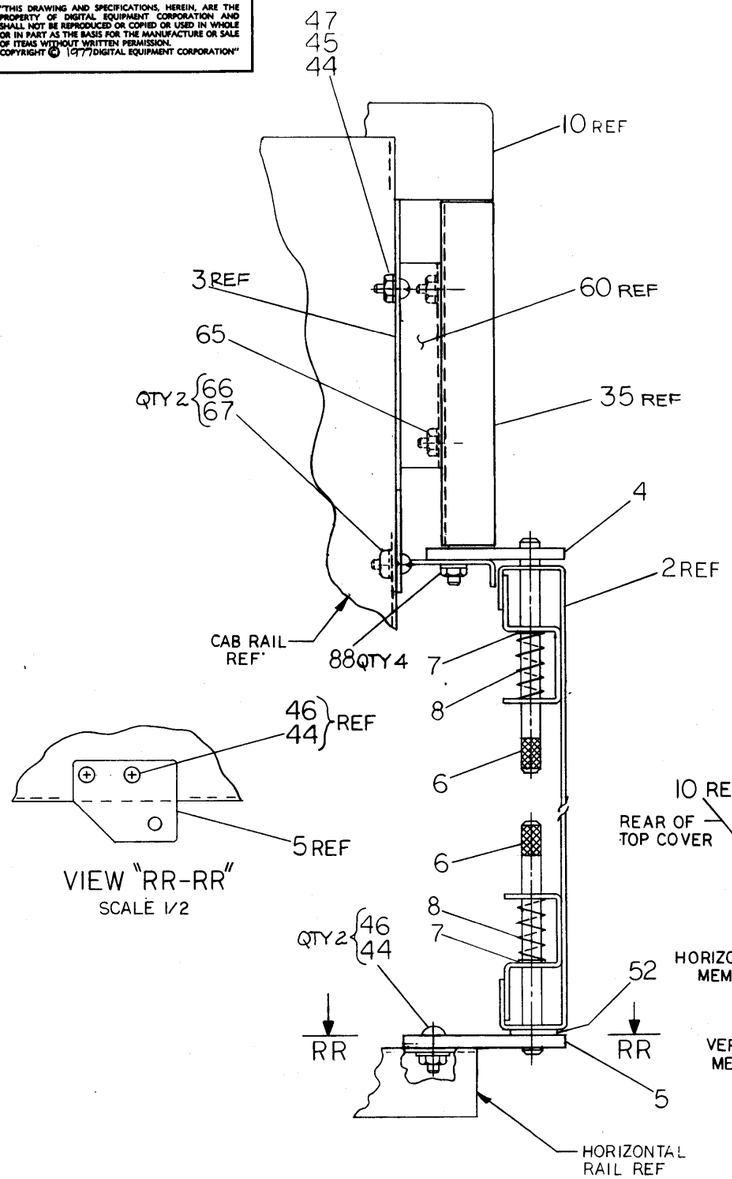
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KSIØ PROCESSOR UNIT ASSY	D	UA	KSIØ-Ø-Ø	
SCALE 1/4 — SHEET 16 OF 31 — DIST.				

DEC FORM NO. DRD 137

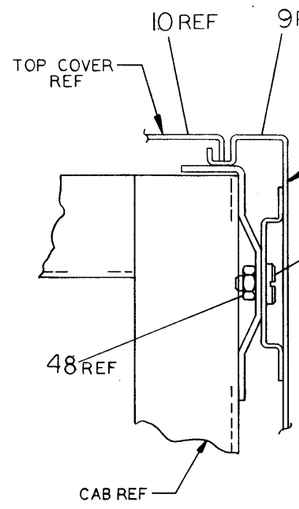
MR

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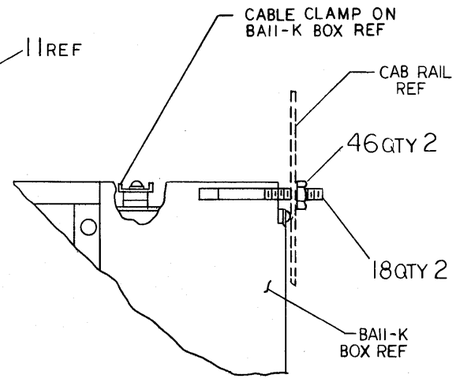


VIEW "A-A"
SCALE 1/1
"FRONT DOOR MOUNTING"

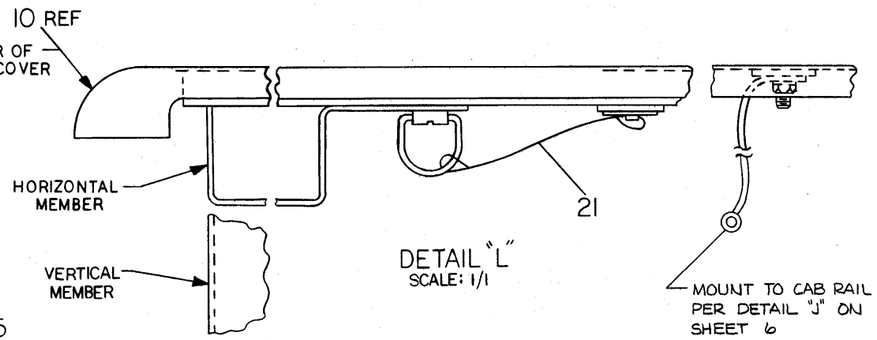
VIEW "RR-RR"
SCALE 1/2



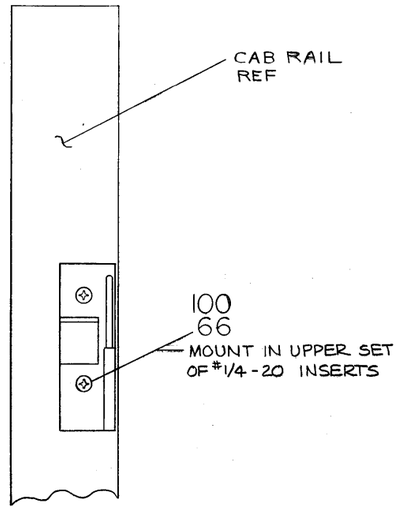
DETAIL "B"
SCALE 1/1
"TOP COVER AND END PANEL MTG."
TYP 8 PLACES

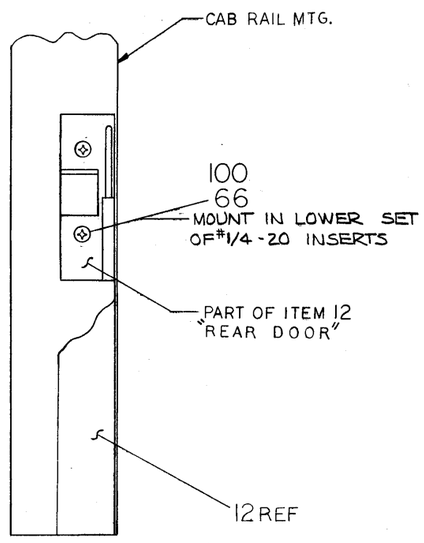


DETAIL "D"
SCALE 1/4
TYP 2 PLACES



DETAIL "L"
SCALE: 1/1





DETAIL "E"
"REAR DOOR HINGE MOUNTING POSITION"
RIGHT REAR CAB RAIL
VIEWED FROM REAR.
SCALE 1/1

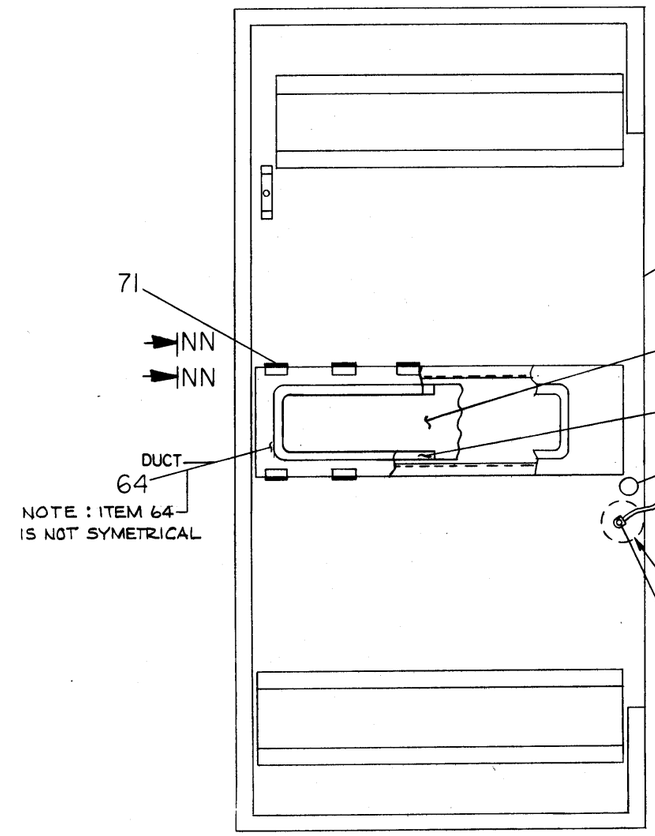
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE KSIØ PROCESSOR UNIT ASSY		SIZE D	CODE UA	NUMBER KSIØ-Ø-Ø	REV. i
SCALE 1/4	SHEET 17 OF 31	DIST.			

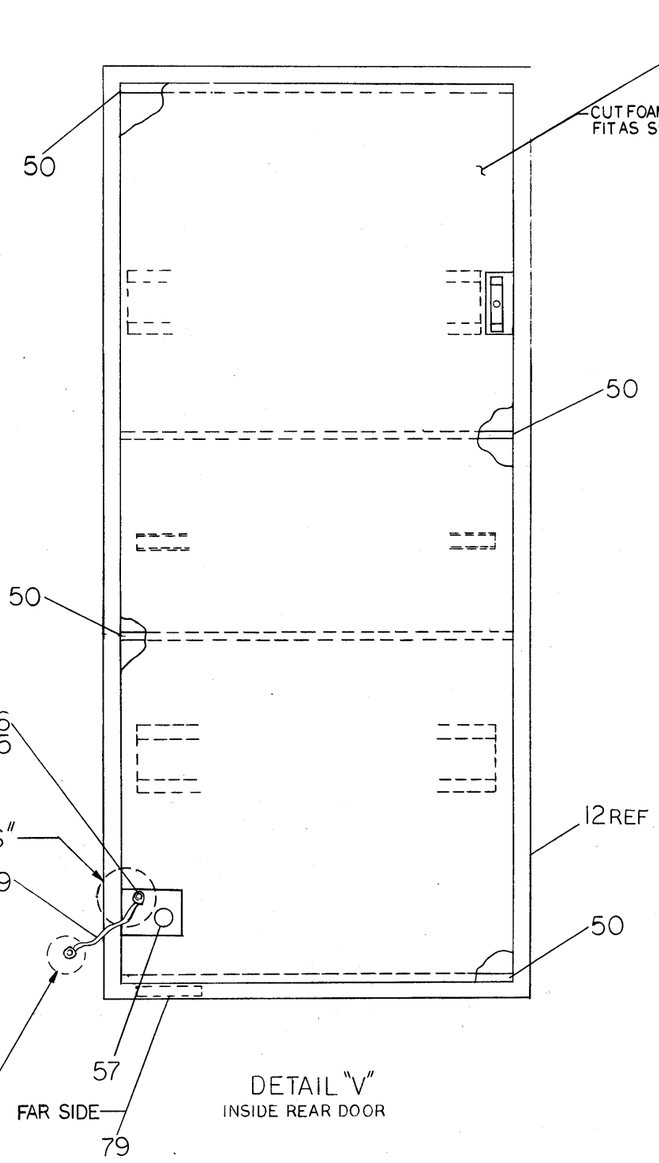
DEC FORM NO. ORD 137

mr

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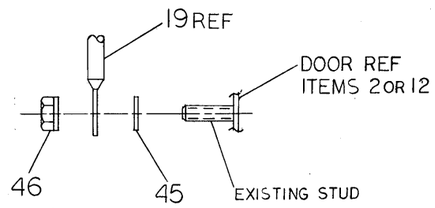
DETAIL "U"
INSIDE FRONT DOOR



DETAIL "V"
INSIDE REAR DOOR



VIEW "NN - NN"
SCALE: NONE
TYP 10 PLACES



DETAIL "SS"
SCALE 1/1
TYP. 2 PLACES

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KS10 PROCESSOR UNIT ASSY	D	UA	KSØ-Ø-Ø	
SCALE 1/4 · SHEET 18 OF 31 · DIST.				

DEC FORM NO. DRD 137

M8571
SWITCH AND JUMPER PLUG CONFIGURATION
(LP20 DATA PATH) LOWEST ACCEPTABLE CS REV D

NOTES:

1. IF THE LP20 CONTROL BOARD, M8586 IN SLOT 1AF02 IS AT REVISION B, IT IS NECESSARY TO TURN OFF S1-3 TO REMOVE LPD5 TABOVER CLK H FROM THE M8586 MODULE AS IT IS NOT USED ON REVISION B OF THAT MODULE.

CAUTION!

IF S1-3 IS TURNED ON WITH A REV B M8586 MODULE INSTALLED, DAMAGE TO THE M8571 LP20 DATA PATHS MODULE MAY RESULT!

2. ALL PRINTERS EXCEPT THE LA180 USE DIFFERENTIALLY DRIVEN DATA AND CONTROL LINES. THE LA180 LINES ARE SINGLE-ENDED CIRCUITS.

THE PRINTER CABLE IS CONFIGURED FOR A SPECIFIC PRINTER BY THE PROPER INSERTION OF THREE (3) JUMPER PLUGS INTO THREE (3) OF THE SIX (6) DIP SITES, E9-E12, E26, E27. ONLY THREE DIP SITES HAVE JUMPER PLUGS INSTALLED AT ANY TIME.

A JUMPER PLUG CONSISTS OF EIGHT (8) JUMPERS IN A PLASTIC DIP HEADER.

IF THE JUMPER PLUGS ARE INSTALLED INCORRECTLY, THE LED NEAR THE PRINTER CABLE WILL ILLUMINATE AND THE CONTROLLER ERROR FLAG (BIT 15 OF LPCSRA) WILL BE UNCLEARABLE. THE SOLUTION IS TO CONFIGURE THE JUMPER PLUGS CORRECTLY.

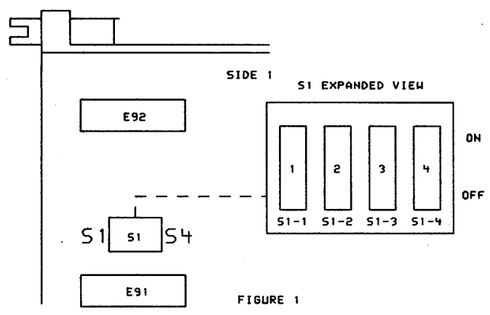


FIGURE 1

3. TABLE ENTRY MEANINGS ARE:

X = DON'T CARE
ON = DIPSWITCH SECTION "ON"
OFF = DIPSWITCH SECTION "OFF"
IN = JUMPER PLUG INSTALLED IN THIS DIPSITE
OUT = NO JUMPER PLUG INSTALLED IN THIS DIPSITE
ALL# = UNITS WITH DAVFU & LONG LINE INTERFACE ONLY
ALL# = LP10-JA,JB,JC,JD,KA,KB,KC,KD ONLY

4. **CAUTION!!**

THE LA180 DRIVEN BY THE LP20 IS NOT CURRENTLY SUPPORTED AS A STANDARD PRODUCT.

M8571 DIPSWITCH S1 (FIGURE 1)	PRINT LOC/NAME	FUNCTIONAL CONFIGURATION	PRINTER IN USE (NOTE 3) LP14/LP05 (ALL#)	LP06 (ALL#)	LP07 (ALL#)	LP10 (ALL#)	LA180 7-BIT	LA180 8-BIT
S1-1	LPD6/LPT PARITY	SWITCH ON ALLOWS A PARITY ERROR FROM THE PRINTER IN USE TO GENERATE AN ERROR IN THE LP20. PARITY IS ALWAYS ENABLED WHEN THE THE PRINTER IN USE IS AN LA180.	OFF	OFF	ON	ON	X	X
S1-2	LPD6/VERT FORMAT	SWITCH ON IMPLIES A DAVFU IS INSTALLED IN THE PRINTER IN USE. SWITCH OFF IMPLYS A PAPER TAPE VFU IS INSTALLED IN THE PRINTER IN USE.	ON	ON	ON	OFF	OFF	OFF
S1-3	LPD5/M8586 REV B	SWITCH MUST BE OFF IF THE LP20 CONTROL BOARD, M8586 IS AT REV B. SWITCH MUST BE ON FOR M8586 REV. C OR LATER.	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1
S1-4	LPD1/LA180 DAT PAR	SWITCH OFF CAUSES LPT DATA PARITY BIT TO BE SENT AS LPT DAT08. PARITY IS GENERATED ON THE LOW-ORDER SEVEN BITS ONLY. (LA180 ONLY) SWITCH ON SENDS PARITY BIT GENERATED AS LPT PARITY AND GENERATES PARITY ON ALL EIGHT BITS.	X	X	X	X	ON	OFF
DIP LOC.	PRINT LOC/NAME	FUNCTIONAL CONFIGURATION (NOTE 2)						
E9	LPD7/JUMPER SOCKET 1	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E9 FOR FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E10	LPD7/JUMPER SOCKET 2	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLLED IN E10 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN
E11	LPD7/JUMPER SOCKET 3	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLLED IN E11 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN
E12	LPD7/JUMPER SOCKET 4	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E12 FOR FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E26	LPD7/JUMPER SOCKET 5	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLED IN E26 FOR FOR PRINTERS OTHER THAN THE LA180.	IN	IN	IN	IN	OUT	OUT
E27	LPD7/JUMPER SOCKET 6	A PRINTER CABLE CONFIGURATION JUMPER PLUG IS INSTALLLED IN E27 FOR LA180 PRINTERS ONLY.	OUT	OUT	OUT	OUT	IN	IN

M8586 LOWEST ACCEPTABLE REVISION IS MODULE REVISION D

ETCH REVISION B OF THE M8586 MODULE CONTAINS THE FOLLOWING ECO PACKAGES IN ETCH.

M8586-0001
M8586-0002
M8586-0003

ETCH REVISION B HAS REPLACED ETCH REVISION A IN NEW BUILDS.

MODULE REVISIONS A,B,C, AND D WERE BUILT USING REV A ETCH. ALL MAY BE UPGRADED TO BE COMPLETELY COMPATABLE WITH MODULE REVISION E WHICH IS BUILT WITH ETCH REVISION B.

MODULE REVISION E REPLACES ALL WIRE JUMPERS WITH DIP SWITCHS.

THE 10-SWITCH UNIT (S1) IS THE DEVICE ADDRESS SWITCH.

ETCH REV A JUMPER MODULE REV A,,B,C,D	ETCH REV B SWITCH MODULE REV E OR LATER	LP20 ADDRESS BIT
W1 (IN)	S1-1 (ON)	ADR 04
W2 (IN)	S1-2 (ON)	ADR 05
W3 (IN)	S1-3 (ON)	ADR 06
W4 (IN)	S1-4 (ON)	ADR 07
W5 (OUT)	S1-5 (OFF)	ADR 08
W6 (OUT)	S1-6 (OFF)	ADR 09
W7 (IN)	S1-7 (ON)	ADR 10
W8 (OUT)	S1-8 (OFF)	ADR 11
W9 (OUT)	S1-9 (OFF)	ADR 12

NOTE S1-10 IS NOT USED!

THE 7-SWITCH UNIT (S2) IS THE DEVICE VECTOR

ETCH REV A JUMPER MODULE REV A,,B,C,D	ETCH REV B SWITCH MODULE REV E OR LATER	LP20 VECTOR BIT
W10 (IN)	S2-1 (ON)	VEC 02
W11 (IN)	S2-2 (ON)	VEC 03
W12 (OUT)	S2-3 (OFF)	VEC 04
W13 (IN)	S2-4 (ON)	VEC 05
W14 (IN)	S2-5 (ON)	VEC 06
W15 (IN)	S2-6 (ON)	VEC 07
W16 (IN)	S2-7 (ON)	VEC 08

7011427 LP20 BACKPLANE ASSEMBLY LOWEST ACCEPTABLE REVISION IS REVISION C.

THE KS10 REQUIRES THAT THE M8571 MODULE BE USED AS THE LP20 DATA PATH MODULE. (NO M8587 MODULES MAY BE USED!!)

M8571 LOWEST ACCEPTABLE REVISION IS MODULE REVISION D.

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REVISIONS

CHK	CHANGE NO.	REV

digital

DRN. J. Toomey DATE 26-APR-78 ENG. F. Coll DATE 27 APR 78
CHK'D. J. HUSON DATE 27 Apr 78 BOARD LOCATION: SHEET 19 OF 31
LDP.DRW[4,710] 26-APR-78 12:29 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-KS10-0

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

mr

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NOTES:

1. THE SERVICE LOOP FOR THE EXPANSION DRAWER SHOULD BE INSTALLED WITH THE DRAWER EXTENDED FULLY AND TILTED 90 VERTICALLY AS SHOWN IN DETAIL K ON SHEET 6. THE SERVICE LOOP WHEN PROPERLY INSTALLED WILL BE APPROXIMATELY 30 INCHES LONG.

2. THE INTERLOCK ARRANGEMENT IN EFFECT BETWEEN THE STABILIZER ARMS AND THE EXPANSION DRAWER WILL PREVENT THE DRAWER FROM BEING FULLY EXTENDED UNLESS THE STABILIZER ARMS ARE FULLY EXTENDED. DO NOT TRY TO OVERRIDE THIS FEATURE.

3. THE CONNECTOR ON THE BC06R CABLES CAN EASILY BE INSERTED INTO THE MASS BUS HOUSING INCORRECTLY (EITHER SHIFTED TO THE RIGHT OR TO THE LEFT ONE ROW OF PINS) CAUTION SHOULD BE EXERSIZED WHEN INSERTING THESE CONNECTORS TO GUARANTEE THAT THEY ARE INSERTED CENTRALLY IN THE CONNECTOR

4. THE M93Ø8 MODULE SHOULD BE MOVED TO THE LAST SLOT IN EACH ADDITIONAL BACKPLANE AS THEY ARE ADDED. SLOT AB

5. M8618 MEMORY CONTROL JUMPER SETTINGS:

W1	OUT
W2	OUT
W3	OUT

6. M8629 MEMORY ARRAY JUMPER SETTINGS:

W1	IN
W2	IN
W3	IN

7. M8618 CONSOLE SWITCH SETTINGS
E5Ø8 (CTY)/E5Ø9 (KLINIK)
FACTORY SET AT 300 BAUD

	E5Ø8		SWITCHES		E5Ø9	
BAUD	1	2	3	4	5	6
110	OFF	OFF	OFF	OFF	OFF	OFF
150	OFF	OFF	OFF	ON	ON/OFF	OFF
300	OFF	OFF	ON	OFF	ON	OFF
600	ON	OFF	OFF	OFF	ON	OFF
1200	OFF	ON	OFF	OFF	ON	OFF
1800	OFF	ON	OFF	ON	ON	OFF
2400	OFF	OFF	ON	ON	ON	OFF
4800	OFF	ON	ON	OFF	ON	OFF
9600	OFF	ON	ON	ON	ON	OFF

#STOP BITS
ON 1
OFF 2

E2Ø8 E3Ø9 OR W1-W20 ARE FACTORY SET PER SPEC A-SP-M8616-0-X

PWR SPLY	W21	W22	W23
H713Ø	OUT	IN	OUT

8. LABEL ALL DZ11 CABLES (BC05W-8) AT BOTH ENDS WITH MARKERS TO IDENTIFY THEIR LINE NUMBERS (I.E. LINES Ø-7, 8-15, 16-23, 24-31) WITH BRADY MARKERS

9. THE H317 COMM DISTRIBUTION PANEL HAS TWO BERG CONNECTORS. IF THE BC05W CABLE BEING CONNECTED REPRESENTS THE FIRST 8 LINES ON THIS PANEL, IT SHOULD BE CONNECTED TO J18. IF THE BC05W CABLE REPRESENTS THE SECOND 8 LINES ON THIS PANEL IT SHOULD BE CONNECTED TO J2Ø. SEE TABLE BELOW:

DZ11 #	LINE #	H317-E #	JACK #
1	0-7	1	J18
2	8-15	1	J2Ø
3	16-23	2	J18
4	24-31	2	J2Ø

10. EACH DUP11-DA CONSISTS OF THE FOLLOWING ITEMS:
1 M7867 MODULE
1 H325 MODEM TEST CONNECTOR
1 BC05C CABLE
1 BC02C-10 CABLE
SEE DETAIL ON SHEET 21 FOR ASSY INSTRUCTIONS

11. LABEL ALL DUP11-DA CABLES (BC05C-25) AT BOTH ENDS WITH BRADY MARKERS TO IDENTIFY THEIR CORRECT LINE NUMBERS (I.E. LINES L1 AND L2). AT BOTH ENDS WITH BRADY MARKERS FOR I.D. PURPOSES.

12. CUT OFF EXTERNAL POWER CORD PLUG OF 50HZ MACHINES BEFORE SHIPPING.

13. ASTERISK * INDICATES MOUNTING HOLE LOCATIONS

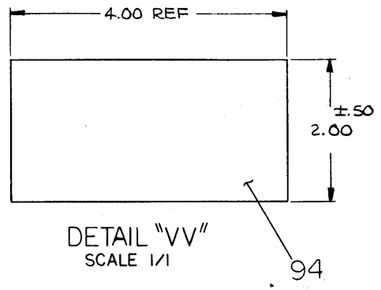
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KSIØ PROCESSOR UNIT ASSY	SIZE / CODE	D / UA
SCALE	1/4	SHEET	20 OF 31
NUMBER	KSIØ-Ø-Ø	REV.	
DIST.			

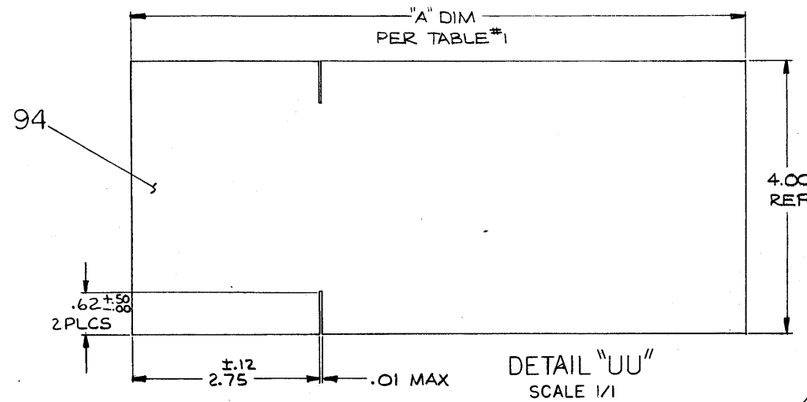
DUA KSIØ-Ø-Ø REV.

MR

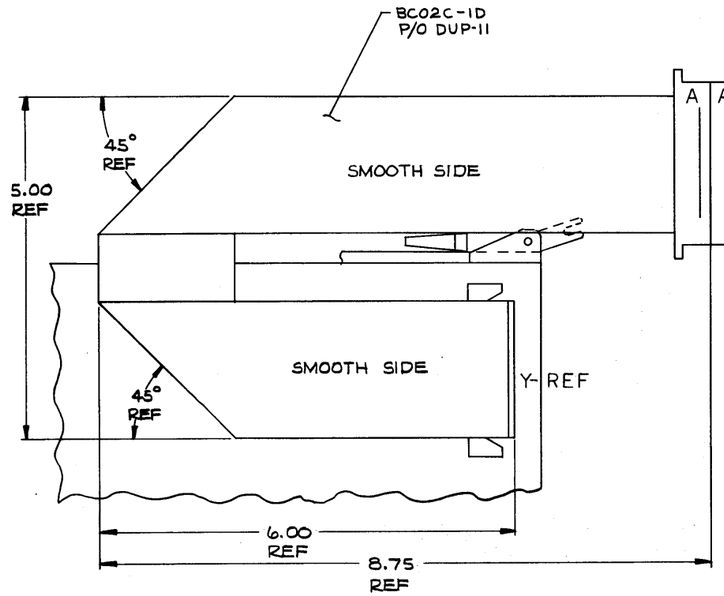
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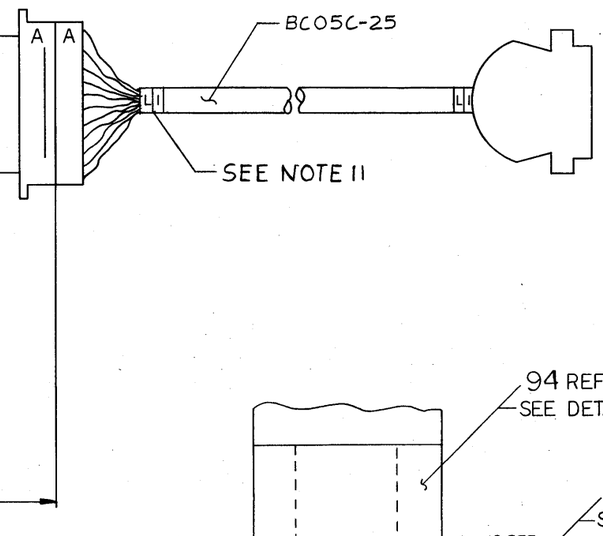
DETAIL "VV"
SCALE 1/1

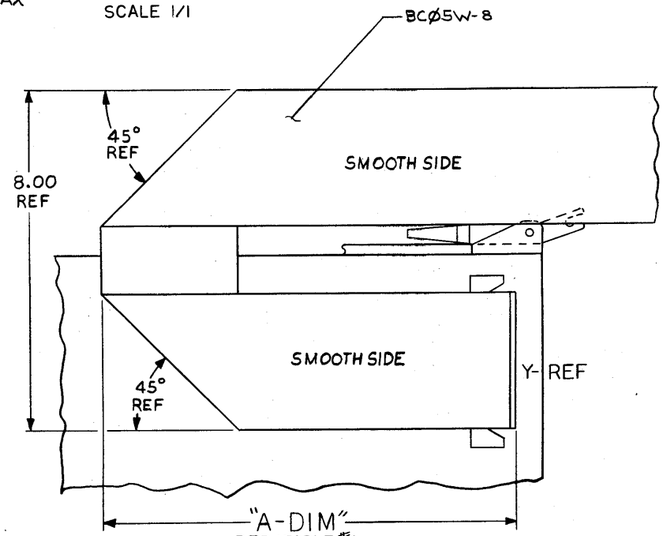


DETAIL "UU"
SCALE 1/1

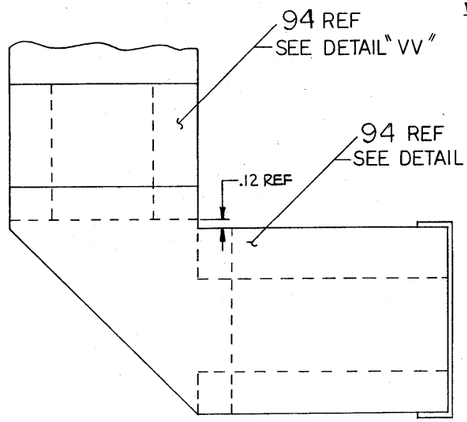


DUP11 MODULE
CABLE FOLD
(M7867)





"A-DIM"
PER TABLE #1
DZ11 MODULE
CABLE FOLD
(M7819) SEE
DETAIL "XX" FOR TAPING



DETAIL "XX"
"DZ11 CABLE TAPING"
SCALE 1/1
CABLE HIDDEN TAPE
NOT SHOWN FOR CLARITY

TABLE # 1	
DZ11 NUMBER	"A" DIM
DZ11 #1	6.50
DZ11 #2	9.00
DZ11 #3	11.50
DZ11 #4	14.00

NOTE: UPRIGHT CAPACITORS UNDER CABLE ARE TO BE FLATTENED AGAINST THE NEIGHBORING IC'S.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE KSIØ PROCESSOR UNIT ASSY	SIZE D	CODE UA	NUMBER KSIØ-Ø-Ø REV.
SCALE 1/4 SHEET 21 OF 31	DIST.		

DEC FORM NO. DRD 137

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1. MODULE CONFIGURATION INFORMATION

1) M7819 (DZ11) (LOWEST ACCEPTABLE CS REV. E)
A FULLY CONFIGURED KSIØ -SYSTEM WILL HAVE UP TO 4 M7819(DZ11) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

DN25 CONFIGURATIONS (ADDRESS & VECTOR TABLES)

DZ11		1	2	3	4
#1	ADDRESS	76ØØ1Ø	76ØØ1Ø	76ØØ1Ø	76ØØ1Ø
	VECTOR	34Ø	34Ø	34Ø	34Ø
#2	ADDRESS		76ØØ2Ø	76ØØ2Ø	76ØØ2Ø
	VECTOR		35Ø	35Ø	35Ø
#3	ADDRESS			76ØØ3Ø	76ØØ3Ø
	VECTOR			36Ø	36Ø
#4	ADDRESS				76ØØ4Ø
	VECTOR				37Ø

DZ11 #1		
PACK	SWITCH	STATE
E11	1	N/A
E11	2	ON
E11	3	ON
E11	4	OFF
E11	5	OFF
E11	6	OFF
E11	7	ON
E11	8	N/A
E81	1	ON
E81	2	OFF
E81	3	OFF
E81	4	OFF
E81	5	OFF
E81	6	OFF
E81	7	OFF
E81	8	OFF
E81	9	OFF
E81	10	OFF

DZ11 #2		
PACK	SWITCH	STATE
E11	1	N/A
E11	2	OFF
E11	3	ON
E11	4	OFF
E11	5	OFF
E11	6	OFF
E11	7	ON
E11	8	N/A
E81	1	OFF
E81	2	ON
E81	3	OFF
E81	4	OFF
E81	5	OFF
E81	6	OFF
E81	7	OFF
E81	8	OFF
E81	9	OFF
E81	10	OFF

DZ11 #3		
PACK	SWITCH	STATE
E11	1	N/A
E11	2	ON
E11	3	OFF
E11	4	OFF
E11	5	OFF
E11	6	OFF
E11	7	ON
E11	8	N/A
E81	1	ON
E81	2	ON
E81	3	OFF
E81	4	OFF
E81	5	OFF
E81	6	OFF
E81	7	OFF
E81	8	OFF
E81	9	OFF
E81	10	OFF

DZ11 #4		
PACK	SWITCH	STATE
E11	1	N/A
E11	2	OFF
E11	3	OFF
E11	4	OFF
E11	5	OFF
E11	6	OFF
E11	7	ON
E11	8	N/A
E81	1	OFF
E81	2	OFF
E81	3	ON
E81	4	OFF
E81	5	OFF
E81	6	OFF
E81	7	OFF
E81	8	OFF
E81	9	OFF
E81	10	OFF

BR PRIORITY LEVEL 5(PRIORITY JUMPER P/N 5408778)

M7867 (DUP11-DA) (LOWEST ACCEPTABLE CS REV. F)
A FULLY CONFIGURED KSIØ SUBSYSTEM WILL HAVE UP TO 2 M7867 (DUP11-DA) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART

DN2Ø CONFIGURATIONS (ADDRESS & VECTORS)

		#1	#2
DUP11 #1	ADDRESS	76Ø3ØØ	76Ø3ØØ
	VECTOR	57Ø	57Ø
#2	ADDRESS		76Ø31Ø
	VECTOR		6ØØ

THERE ARE 2 SWITCH PACKS ON EACH M7867 (DUP11-DA) MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGMENTS.

DUP11 #1		
PACK	SWITCH	STATE
E59	1	ON
E59	2	OFF
E59	3	ON
E59	4	ON
E59	5	ON
E59	6	ON
E59	7	N/A
E59	8	N/A
E113	1	ON
E113	2	ON
E113	3	ON
E113	4	OFF
E113	5	OFF
E113	6	ON
E113	7	ON
E113	8	ON
E113	9	ON
E113	10	ON

DUP11 #2		
PACK	SWITCH	STATE
E59	1	ON
E59	2	ON
E59	3	OFF
E59	4	OFF
E59	5	OFF
E59	6	OFF
E59	7	N/A
E59	8	N/A
E113	1	OFF
E113	2	ON
E113	3	ON
E113	4	OFF
E113	5	OFF
E113	6	ON
E113	7	ON
E113	8	ON
E113	9	ON
E113	10	ON

THERE ARE 7 JUMPERS ON EACH M7867 (DUP11-DA) MODULE. THEY ARE ALL FACTORY SETTABLE FOR COMPATIBILITY WITH BELL 2Ø1. BELL 2Ø8 AND 2Ø9 SERIES MODEMS AND SHOULD NOT HAVE TO BE CHANGED UNLESS ANOTHER TYPE MODEM IS USED.

SHOULD ANOTHER TYPE MODEM BE USED THE JUMPERS MUST BE RE-CONFIGURED SO THAT THEY ARE COMPATIBLE WITH THE TYPE MODEM USED. REFER TO THE DUP11-DA BIT SYNCHRONOUS INTERFACE MAINTENANCE MANUAL (EK-DUP11-MM).

AS A QUICK VERIFY THE STANDARD FACTORY SETTABLE JUMPER SETTINGS ARE AS FOLLOWS:

W1	IN	W5	OUT
W2	OUT	W6	IN
W3	IN	W7	IN
W4	IN		

BR PRIORITY LEVEL 5(PRIORITY JUMPER P/N 5408778).

M8204 (KMC11) (LOWEST ACCEPTABLE CS REV. D)
A FULLY CONFIGURED KSIØ SYSTEM WILL HAVE 1 M8204 (KMC11) MODULE. IT'S ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

KMC		#1	
KMC11 #1	ADDRESS	76Ø54Ø	CONTROLS DUP11
	VECTOR	54Ø	#1 AND #2

THERE ARE 2 SWITCH PACKS ON EACH M8204 MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGNMENTS.

KMC11 #1		
PACK	SWITCH	STATE
E65	1	OFF
E65	2	OFF
E65	3	ON
E65	4	ON
E65	5	OFF
E65	6	ON
E65	7	N/A
E65	8	N/A
E116	1	ON
E116	2	ON
E116	3	OFF
E116	4	OFF
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

NOTE: EACH BACKPLANE SLOT WHICH HAS AN M8204 (KMC11) MODULE INSTALLED MUST HAVE THE BACKPLANE WIRE FROM PIN CA1 TO PIN CB1 OF THAT SLOT REMOVED. SHOULD THE KMC11 EVER BE REMOVED FROM THAT SLOT THE WIRE MUST BE RE-INSERTED IN ORDER TO GUARANTEE THAT THE NPG SIGNAL WILL BE PASSED ALONG THE UNIBUS.

DD11-DK (LOWEST ACCEPTABLE REV. B)
ALL SLOTS WHICH HAVE NO QUAD OR HEX MODULE INSTALLED MUST HAVE A GRANT CONTINUITY CARD (G727) INSTALLED IN ROW D OF THAT SLOT.

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RH11-C MASSBUS CONTROLLER

5410506 ETCHED BACKPLANE
LOWEST ACCEPTABLE WIRE LIST REVISION C

M7294-YA DATA BUFFER & CONTROL LOCATION ABCDEFØ3
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV *

JUMPER TABLE JUMPER	STATE DISK	TAPE	COMMENTS
W1	OUT	OUT	SENSE UNIBUS A PARITY ERROR
W2	IN	IN	SENSE UNIBUS B PARITY ERROR
E66, PINS 1-16	IN	IN	START COUNT YR WORDS
E66, PINS 5-12	OUT	OUT	START COUNT 32 WORDS
E66, PINS 7-10	OUT	OUT	START COUNT 16 WORDS
E66, PINS 2-15	IN	IN	DISABLE BUS B HOG MODE
E66, PINS 3-14	OUT	OUT	ENABLE BACK TO BACK MEM CYCLES
E66, PINS 4-13	OUT	IN	FOR TAPE SUBSYSTEM ONLY, OTHERWISE OUT
E66, PINS 6-11	IN	OUT	FOR DISK SUBSYSTEM ONLY, OTHERWISE OUT

M7295 BUS CONTROL LOCATION ABCDEFØ2
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV D

JUMPER TABLE JUMPER	STATE DISK	TAPE	COMMENTS
W1	OUT	OUT	ADDRESS BIT 12
W2	OUT	IN	ADDRESS BIT 11
W3	OUT	OUT	ADDRESS BIT 10
W4	IN	IN	ADDRESS BIT 09
W5	OUT	OUT	ADDRESS BIT 08
W6	OUT	IN	ADDRESS BIT 07
W7	OUT	IN	ADDRESS BIT 06
W8	IN	OUT	ADDRESS BIT 05
E3, PINS 1-16	OUT	IN	16-32 REGISTERS
E3, PINS 2-15	OUT	IN	16-32 REGISTERS
E3, PINS 3-14	IN	OUT	1-16 REGISTERS
E3, PINS 4-13	IN	OUT	1-16 REGISTERS
E3, PINS 5-12	IN	OUT	16 REGISTERS
E3, PINS 6-11	OUT	OUT	8 REGISTERS
E3, PINS 7-10	IN	OUT	4 REGISTERS
E3, PINS 8-9	OUT	IN	2 REGISTERS
W11	IN	IN	VECTOR BIT V2
W12	IN	OUT	VECTOR BIT V3
W13	OUT	IN	VECTOR BIT V4
W14	IN	OUT	VECTOR BIT V5
W15	OUT	OUT	VECTOR BIT V6
W16	IN	IN	VECTOR BIT V7
W17	OUT	OUT	VECTOR BIT V8
W18	OUT	OUT	NPR LATENCY
W19	IN	IN	MAINTENANCE (MXF ERRORS)

W1-W8 CORRESPOND TO A BASE ADDRESS OF 776700 FOR DISKS
AND 772440 FOR TAPES
W11-W17 CORRESPOND TO A VECTOR ADDRESS OF 000254 FOR DISKS
AND 000224 FOR TAPES
JUMPERS ON E3 ARE SET FOR 20 REGISTERS FOR DISKS AND 14
FOR TAPES
DIPS SITE E57 SHOULD CONTAIN PRIORITY PLUG BR6(54-08780)
CAUTION: BOARD MAY NOT BE RECIEVED WITH
PROPER BR PLUG IF IT IS A SPARE

M7296 CONTROL AND STATUS REGISTERS LOCATION EFØ1
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV B
INSTALL JUMPER W1 TO ALLOW ONLY UNIBUS A TO BE SELECTED

M7297 PARITY CONTROL LOCATION CDØ1
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV A
NO JUMPERS OR OTHER CONFIGURABLE COMPONENTS
THERE ARE TWO VSUAL INDICATORS (LEDS) FOR MASSBUS PARITY ERROR
DISPLAY ON THIS BOARD (LIT IF PARITY ERROR DETECTED).

M93ØØ UNIBUS B TERMINATOR LOCATION ABØ8
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV D
JUMPER TABLE

JUMPER	STATE	COMMENTS
W1	OUT	BEGINNING OF BUS
W2	IN	NOT END OF BUS
W3	IN	NOT END OF BUS

THERE IS A VISUAL INDICATOR (LED) FOR AN ILLEGAL JUMPER CONFIGURATION
CHECK (LIT IF ELLEGAL).

M5984 CONTROLLER TRANSCEIVER LOCATIONS CDØ4, CDØ5, CDØ6
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV D
NO JUMPERS OR OTHER CONFIGURABLE COMPONENT.

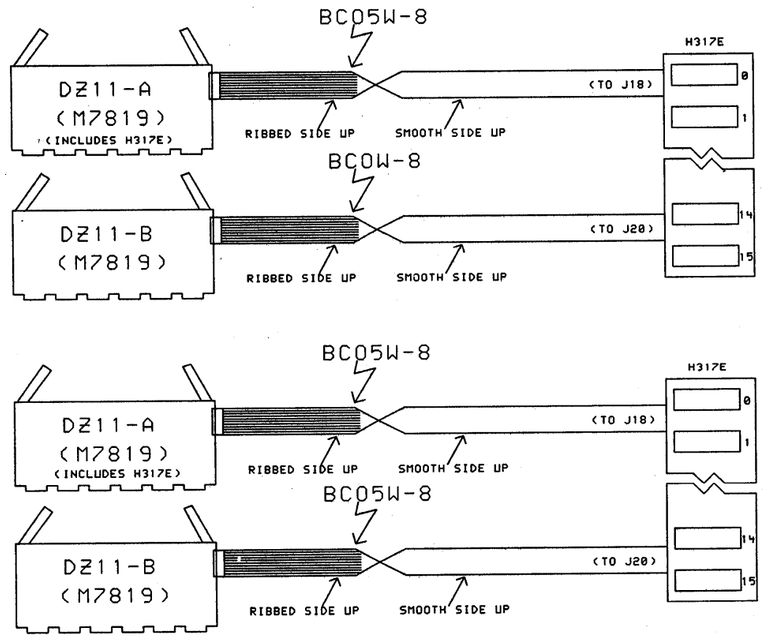
M688 UNIBUS POWER FAIL DRIVERS LOCATIONS EØ4 AND EØ5
LOWEST ACCEPTABLE REVISION ETCH REV N/A CS REV N/A
NO JUMPERS OR OTHER CONFIGURABLE COMPONENT.
REMOVE M688 MODULE FROM BA11-K BOX SLOT #E15
ONLY, M688 IN SLOT #E14 TO REMAIN.

UNIBUS SIGNAL NAME	FRONT END UNIBUS PIN ASSIGNMENT BACKPLANE	FRONT END M9014 CONN. PIN ASSIGNMENT JACK	PIN	THE FOLLOWING PINS ON J1, J2 AND J3, ARE GROUNDED	FRONT END M9014 CONN. PIN ASSIGNMENT JACK	PIN
A00 L	RH2	J1	D			
A01 L	BH1	J1	B			
A02 L	BJ2	J1	J			
A03 L	BJ1	J1	F			
A04 L	BK2	J1	N			
A05 L	BK1	J1	L			
A06 L	BL2	J1	T			
A07 L	BL1	J1	R			
A08 L	BM2	J1	X			
A09 L	BM1	J1	V			
A10 L	BN2	J1	BB			
A11 L	BN1	J1	Z			
A12 L	BP2	J1	FF			
A13 L	BP1	J1	DD			
A14 L	BR2	J1	LL			
A15 L	BR1	J1	JJ			
A16 L	BS2	J1	RR			
A17 L	BS1	J1	NN			
ACLO L	BF1	J2	VV			
BBSY L	AP2	J3	BB			
BG4 H	BE2	J3	X			
BG5 H	BB1	J3	T			
BG6 H	BA1	J3	N			
BG7 H	AV1	J3	J			
BR4 L	BD2	J3	V			
BR5 L	BC1	J3	R			
BR6 L	AU2	J3	L			
BR7 L	AT2	J3	F			
C0 L	BU2	J3	NN			
C1 L	BT2	J1	TT			
D00 L	AC1	J2	B			
D01 L	AD2	J2	F			
D02 L	AD1	J2	D			
D03 L	AE2	J2	L			
D04 L	AE1	J2	J			
D05 L	AF2	J2	R			
D06 L	AF1	J2	N			
D07 L	AH2	J2	V			
D08 L	AH1	J2	T			
D09 L	AJ2	J2	Z			
D10 L	AJ1	J2	X			
D11 L	AK2	J2	DD			
D12 L	AK1	J2	BB			
D13 L	AL2	J2	JJ			
D14 L	AL1	J2	FF			
D15	AM2	J2	NN			
GROUND	AB2	J1	VV	A C E H K M P S U W Y AA CC EE HH KK MM PP SS UU		
GROUND	AC2	J2	TT			
GROUND	AN1	J3	DD			
GROUND	AP1	J3	RR			
GROUND	AR1	J3	Z			
GROUND	AS1	J3	FF			
GROUND	AT1	J3	LL			
GROUND	AV2	J3	D			
GROUND	BB2	J3	B			
GROUND	BC2	J2	LL			
GROUND	BD1	J2	RR			
GROUND	BE1				J3	TT
GROUND	BT1				J3	VV
GROUND	BV2				J3	JJ
GROUND	AA1					
INIT L	AB1					
INTR L	BV1					
MSYN L	AU1					
NPG H	AS2					
NPR L	AH1					
PA L	AN2					
PB L	AA2					
5V	BA2					
5V	AR2				J3	TT
SACK L	BF2				J3	VV
DCLO L	BU1				J3	JJ
SSYN L						

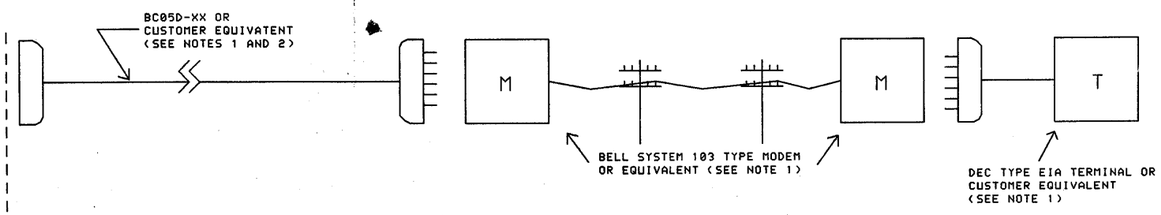
M9014 ONLY

REVISIONS		
CHK	CHANGE NO.	REV.

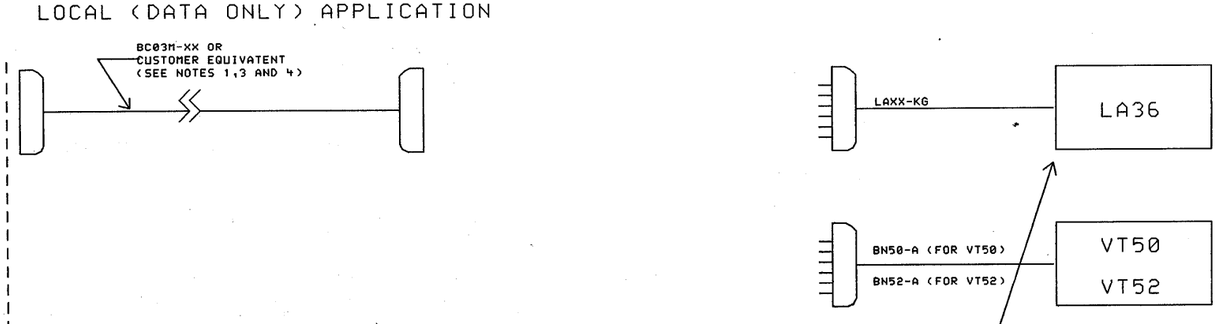
TITLE	KSIØ PROCESSOR UNIT ASSY		
SCALE 1/4	SHEET 23 OF 31	SIZE D / CODE UA / NUMBER KSIØ-Ø-Ø	REV.
		DIST.	



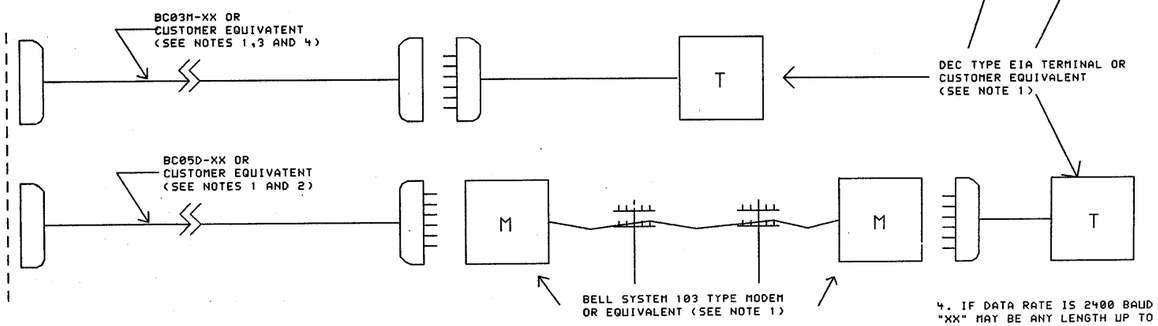
REMOTE (FULL MODEM) APPLICATION



LOCAL (DATA ONLY) APPLICATION



MIXTURE OF LOCAL AND REMOTE APPLICATIONS



1. ALL BC05D AND BC03M CABLES, MODEMS AND TERMINALS MUST BE ORDERED SEPERATELY AND SUPPLIED WHEN REQUIRED AS THEY ARE NOT SUPPLIED WITH DN25 SUBSYSTEM.

2. "XX" IS TYPICALLY 25 FT FOR THE BC05D CABLE . CONDITIONS IN EIA SPECIFICATION RS-232-C MUST BE ADHERED TO REGARDLESS OF CABLE LENGTH.

3. ACCEPTABLE CUSTOMER EQUIVALENT CABLE FOR PROPER OPERATION IS BELDEN 8777.

4. IF DATA RATE IS 2400 BAUD OR LESS "XX" MAY BE ANY LENGTH UP TO 1000 FT. IF DATA RATE IS GREATER THAN 2400 BAUD "XX" MUST NOT EXCEED 250 FT. IF TWO CABLES ARE USED TOGETHER(I.E. BC03M & BC05D), THEIR COMBINED LENGTH MUST NOT EXCEED 1000 FT OR 250 FT RESPECTIVELY. THE MAXIMUM DATA RATE OF ANY LINE IS 9600 BAUD. ELECTRICAL ENVIRONMENTAL CONDITIONS STATED IN EIA SPECIFICATION RS 423 MUST BE ADHERED TO REGARDLESS OF CABLE LENGTH.

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REVISIONS

CHK	CHANGE NO.	REV

digital

DRN D.Toomey DATE 26-APR-78 ENG. F. Goff DATE 28 Apr 78
CHK D. J. Hwang DATE 27 Apr 78
BOARD LOCATION:
SHEET 24 OF 31
D211.DRW[4,211] 26-APR-78 09:03
NEXT HIGHER ASSEMBLY: B-DD-KS10-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

MR

1489L INPUT (EIA LEVELS)	1489L OUTPUT (TTL LEVELS)
6V TO 1.5V	0.8V TO 0V
0V TO -6V	2.4V TO 5V

EACH 1489L HAS AN EXTERNAL RESPONSE CONTROL INPUT THAT IS CONNECTED TO ONE SIDE OF A 470 pf CAPACITOR. THE OTHER SIDE OF THE CAPACITOR IS CONNECTED TO GROUND. THE UNGROUNDED SIDE OF THE CAPACITOR IS ALSO CONNECTED TO ONE PAIR OF TERMINALS. THE OTHER TERMINAL IS CONNECTED TO -15V. IF DESIRED, A RESISTOR CAN BE CONNECTED ACROSS THE TERMINALS TO CHANGE THE THRESHOLD VOLTAGE FOR THE LEVEL CONVERSION. THE DUP11 IS SHIPPED WITHOUT RESISTORS INSTALLED.

1488 INPUT (TTL LEVELS)	1488 OUTPUT (EIA LEVELS)
0.4V TO 0V	3V TO 6V
2.4V TO 5V	-3V TO -6V

FOR TIMING AND CONTROL INTERCHANGE CIRCUITS, THE FUNCTION SHALL BE CONSIDERED ON WHEN THE VOLTAGE (V1) ON THE INTERCHANGE CIRCUIT IS MORE POSITIVE THAN PLUS THREE VOLTS WITH RESPECT TO CIRCUIT AB, AND SHALL BE CONSIDERED OFF WHEN THE VOLTAGE (V1) IS MORE NEGATIVE THAN MINUS THREE VOLTS WITH RESPECT TO CIRCUIT AB. THE FUNCTION IS NOT UNIQUELY DEFINED FOR VOLTAGES IN THE TRANSITION REGION BETWEEN PLUS THREE VOLTS AND MINUS THREE VOLTS.

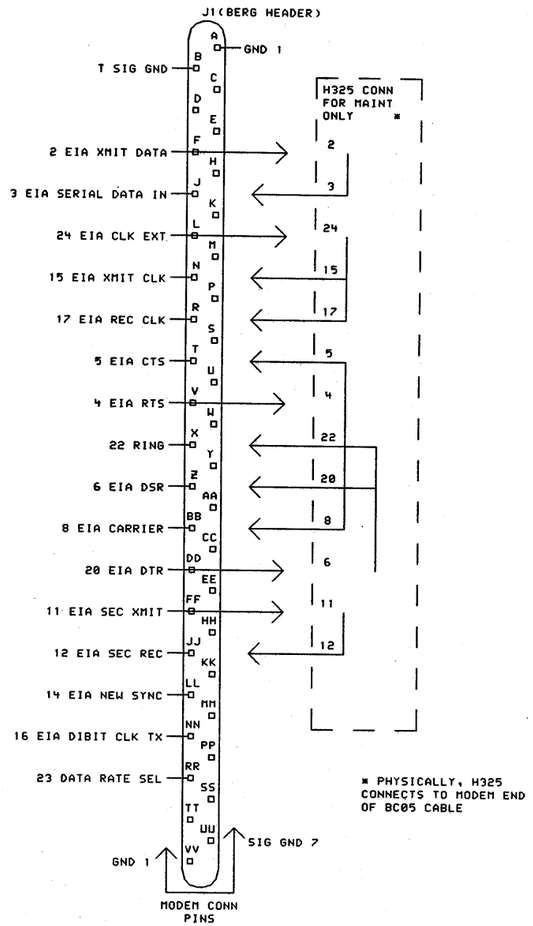
NOTATION	INTERCHANGE VOLTAGE	
	NEGATIVE	POSITIVE
BINARY STATE SIGNAL CONDITION FUNCTION	1 MARKING OFF	0 SPACING ON

* * COMPATABLE MODEMS RECOMMENDED CUSTOMER OPTIONS.

208A- BASIC UNCONDITIONED 4 WIRE PRIVATE LINE,
3002 CHANNEL, POINT TO POINT OPERATION.

LINE INTERFACE-4 WIRE PRIVATE LINE.
TRANSMIT TIMING-INTERNAL.
CARRIER-SWITCHED.
REQUEST TO SEND-SWITCHED(8MS CA-CB DELAY).
1 SEC. HOLDCOVER-PROVIDED(IN).
NEW SYNC OPTION-NOT USED-NEW SYNC IS STRAPPED "OFF" WITHIN DATA SET.
DATA SET READY LEAD OPTION-CC IS "OFF" WHEN AL BUTTON IS PUSHED.
GROUNDED-AB CONNECTED TO AA.

208B- 2 WIRE SWITCHED NETWORK-HALF DUPLEX
TRANSMITTER TIMING - DATA SET(INTERNAL).
DATA SET READY LEAD OPTION - CC"ON" WHEN AL BUTTON IS PUSHED.
ACU (WITH OR WITHOUT) - WITHOUT.
AUTO ANSWER - SELECTABLE.



* PHYSICALLY, H325 CONNECTS TO MODEM END OF BC05 CABLE

---- DISTANCE TABLE ----

FOR COMM LINK II

IF RESTRICTED BY BELL PUB 43401

BAUD RATE		DISTANCE
2.4	KBPS	12.8 KM
4.8	KBPS	9.8 KM
7.2	KBPS	3.36 KM
9.6	KBPS	2.24 KM
19.2	KBPS	1.6 KM

IF CUSTOMER PROVIDED TWISTED PAIR (24 AWG)

BAUD RATE		DISTANCE
2.4	KBPS	12.8 KM
4.8	KBPS	9.6 KM
7.2	KBPS	7.36 KM
9.6	KBPS	6.88 KM
19.2	KBPS	4.96 KM

DB25-PORTS PIN NUMBER	INTERCHANGE CIRCUIT	C.C.I.T.T. EQUIVALENT	RS-232-C DISCRIPTION
1 7	AA AB	101 102	PROTECTIVE GROUND SIGNAL GROUND/COMMON RETURN
2 3	BA BB	103 104	TRANSMITTED DATA RECIEVED DATA
4 5 6 20 22 8 21 23 23	CA CB CC CD CE CF CG CH CI	105 106 107 108.2 125 109 110 111 112	REQUEST TO SEND CLEAR TO SEND DATA SET READY DATA TERMINAL READY RING INDICATOR RECIEVED LINE SIGNAL DETECTOR SIGNAL QUALITY DETECTOR DATA SIGNAL RATE SELECTOR (DTE) DATA SIGNAL RATE SELECTOR (DCE)
24 15 17	DA DB DD	113 114 115	TRANSMITTER SIGNAL ELEMENT TIMING (DTE) TRANSMITTER SIGNAL ELEMENT TIMING (DCE) RECEIVER SIGNAL ELEMENT TIMING (DCE)
14 16	SBA SBB	118 119	SECONDARY TRANSMITTED DATA SECONDARY RECEIVED DATA
19 13 12	SCA SCB SCF	120 121 122	SECONDARY REQUEST TO SEND SECONDARY CLEAR TO SEND SECONDARY REC'D LINE SIGNAL DETECTOR

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. S. Looney DATE 26-APR-78
CHK'D. J. Murphy DATE 27 Apr 78
ENG. F. Gail DATE 27 APR 78
BOARD LOCATION:
SHEET 25 OF 31
DUP2.DRW[4,211] 26-APR-78 09:04
NEXT HIGHER ASSEMBLY: B-DD-KS10-0
FIRST USED ON OPTION/MODEL: KS10

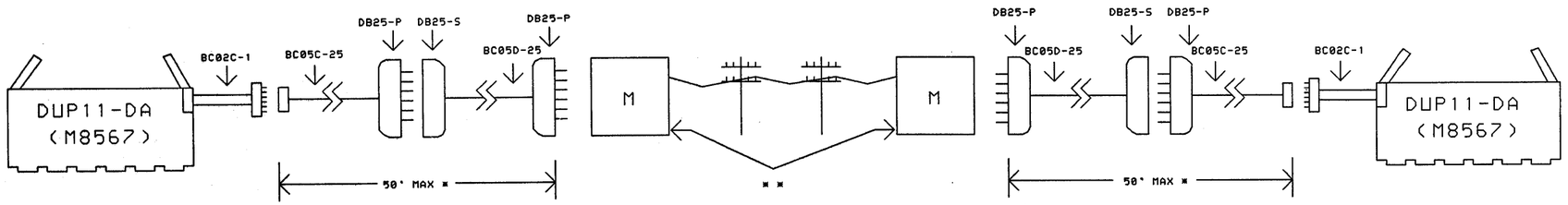
TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

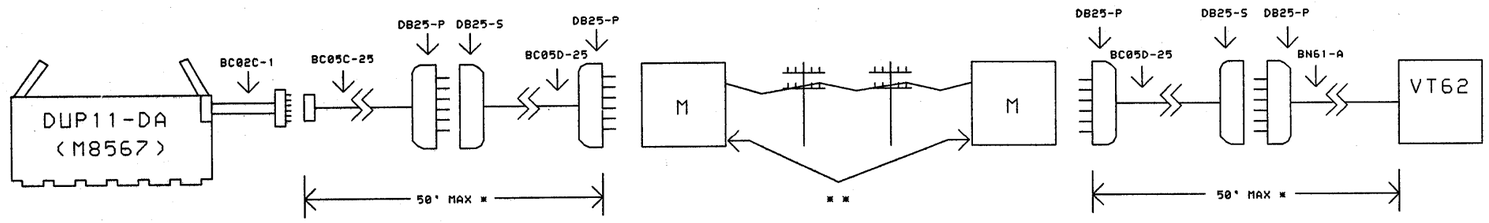
REV. | NUMBER KS10-0-0 | CODE UA | SIZE D

MR

REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO SYSTEM)

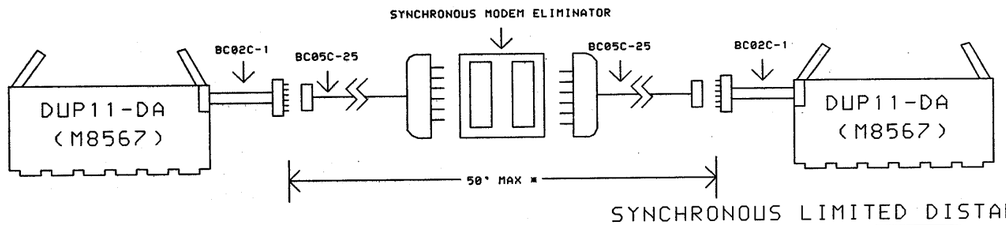


REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO TERMINAL)

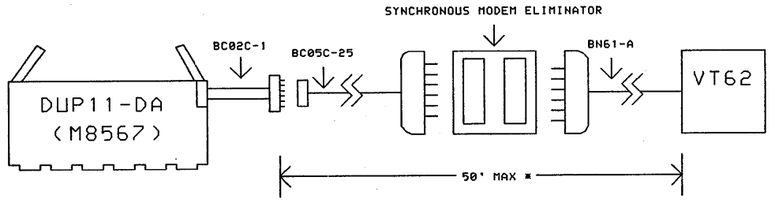


* IF BC05C-25 WILL REACH TO DATA COMMUNICATION EQUIPMENT, THE BC05D-25 MAY BE EXCLUDED, IF BOTH CABLES ARE USED, THE 50' MAXIMUM DISTANCE MUST BE ADHEARED TO.

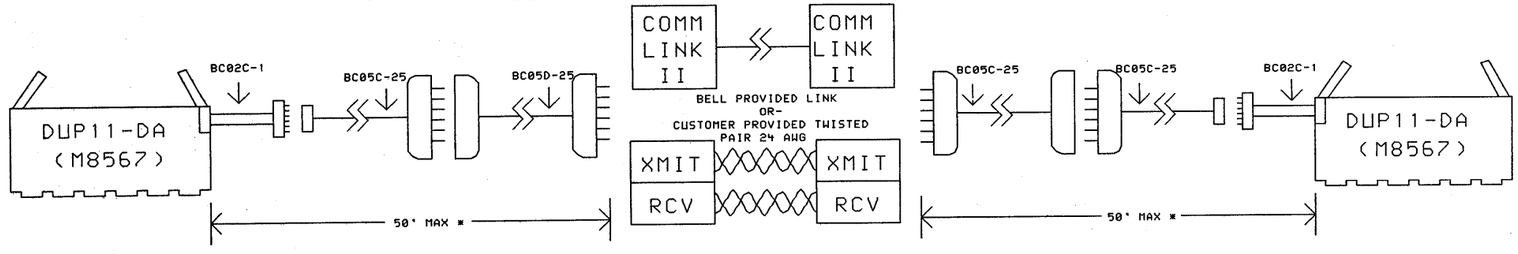
LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO SYSTEM)



LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO TERMINAL)



SYNCHRONOUS LIMITED DISTANCE ADAPTERS (SHORT HAUL) SEE DISTANCE TABLE ON SHEET 21



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN S.Toomey DATE 26-APR-78 ENG F.Goll DATE 28 APR 78
CHK *D. DATE BOARD LOCATION:
SHEET 26 OF 31
DUP1.DRW[4,211] 26-APR-78 09:03 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-KS10-0

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

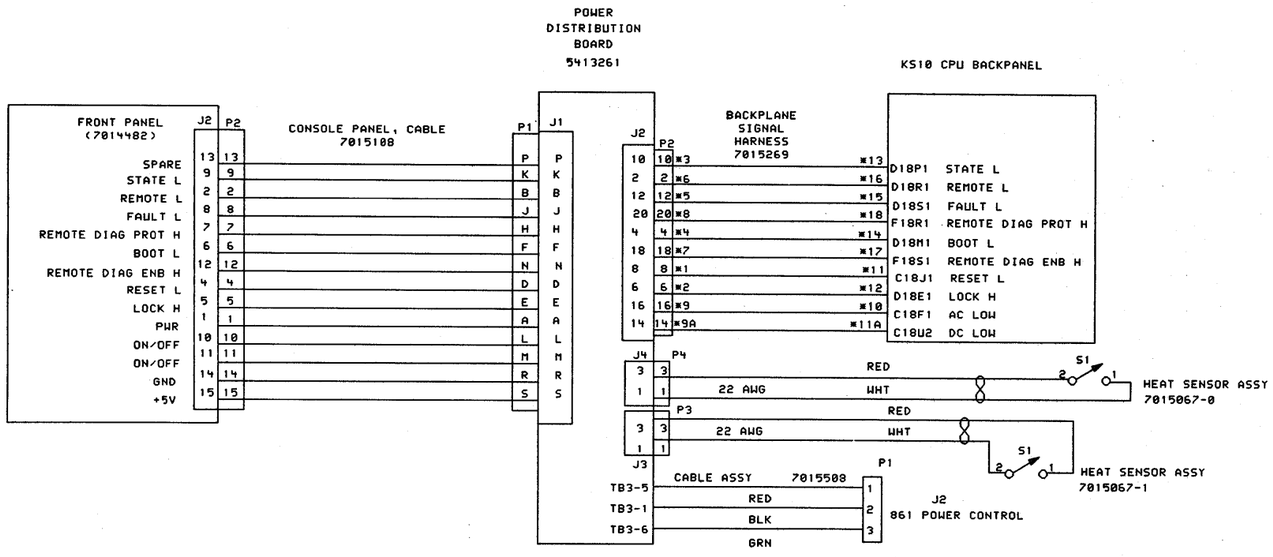
MR

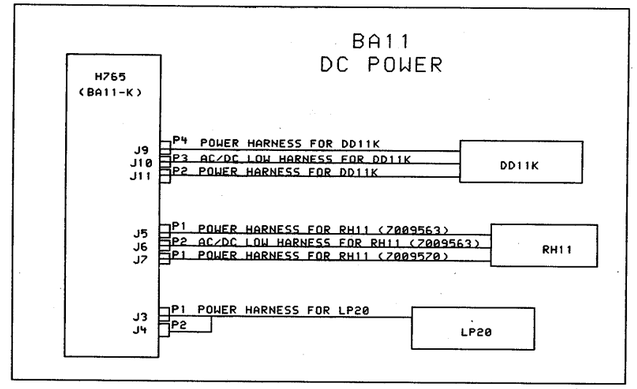
SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

NOTE:

1. ADDITIONAL POWER DIST. BOARD CONNECTIONS FOUND ON SHEETS 28, 29, 30, 31, & 32

* DENOTES BRADY MARKER NUMBERS





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REVISIONS		
CHK	CHANGE NO.	REV

digital

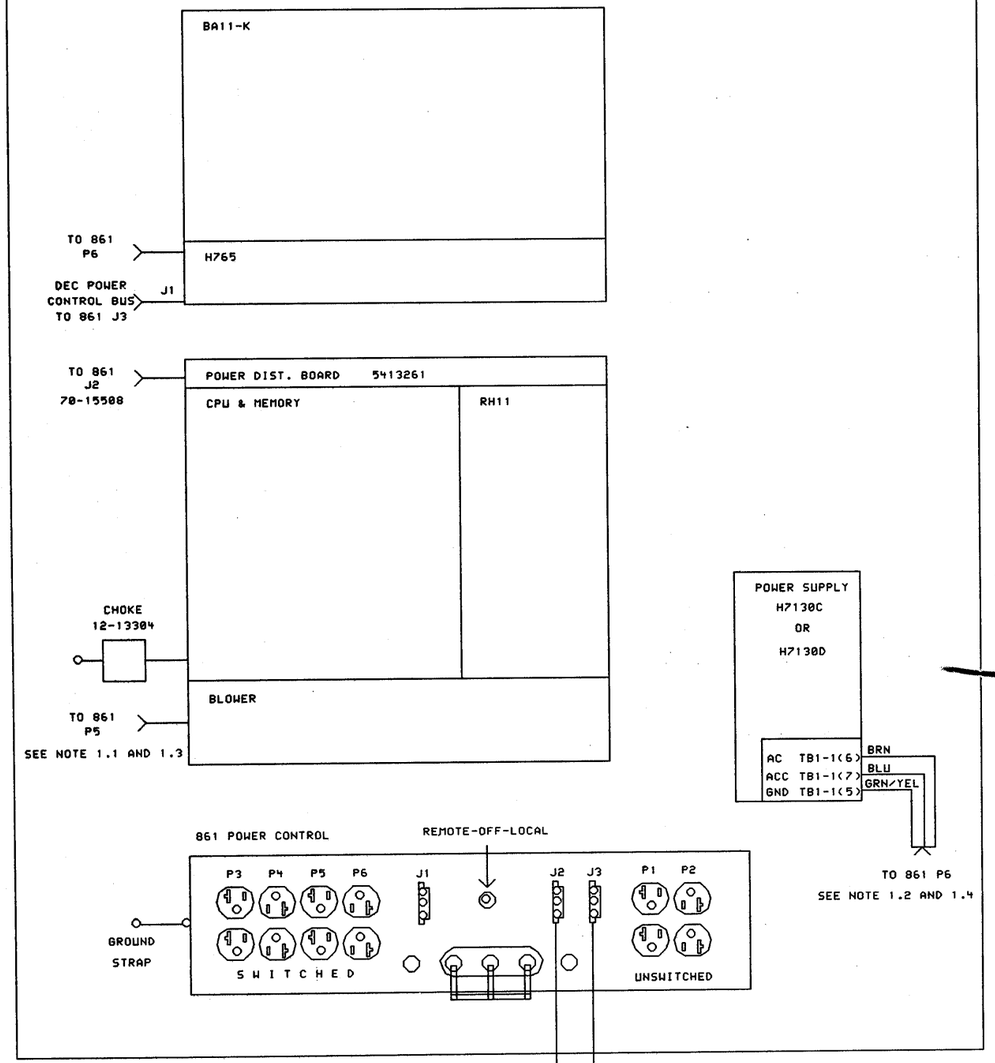
DRN S. Toomey DATE 26-APR-78 ENG. DATE 25 Apr 78
CHK D. J. Hunt DATE 26 Apr 78 BOARD LOCATION:
SHEET 27 OF 31
DCAKS1.DRW[4,331] 25-APR-78 16:02 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-KS10-0

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

MR2

KS10 CABINET



AC POWER WIRING FOR H7130C & H7130D

NOTES:

1.1 FOR 60HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014323-3
1.2 FOR 60 HZ OPERATION, POWER SUPPLY (H7130C) USES POWER CORD D-IA-7015137.
1.3 FOR 50HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014324-3
1.4 FOR 50HZ OPERATION, POWER SUPPLY (H7130D) USES POWER CORD D-IA-7015325.
2.1 BELOW DESCRIBES OUTLETS FOR 861-C POWER CONTROL:

	CURRENT CAPACITY	CIRCUIT	
P1	20A	1	UN-SW
P2	20A	2	UN-SW
P3	20A	1	SW
P4	20A	1	SW
P5	20A	2	SW
P6	20A	2	SW

2.2 BELOW DESCRIBES OUTLET FOR 861-B POWER CONTROL

	CURRENT CAPACITY	CIRCUIT	
P1	16A	1	UN-SW
P2	16A	2	UN-SW
P3	16A	1	SW
P4	16A	1	SW
P5	16A	2	SW
P6	16A	2	SW

3. GROUND STRAPS ARE TO BE USED TO PROVIDE A SOLID GROUND FOR POWER CONTROL.
4.1 FOR 60HZ (KS-10) OPERATION USE:
H765A POWER SUPPLY
H7130C POWER SUPPLY
861-C POWER CONTROL
12-13956 BLOWER
4.2 FOR 50HZ (KS-10) OPERATION USE:
H765B POWER SUPPLY
H7130D POWER SUPPLY
861-B POWER CONTROL
12-13956 BLOWER
5. VIEW FROM REAR OF CABINET.
6. DRAWING NOT TO SCALE.

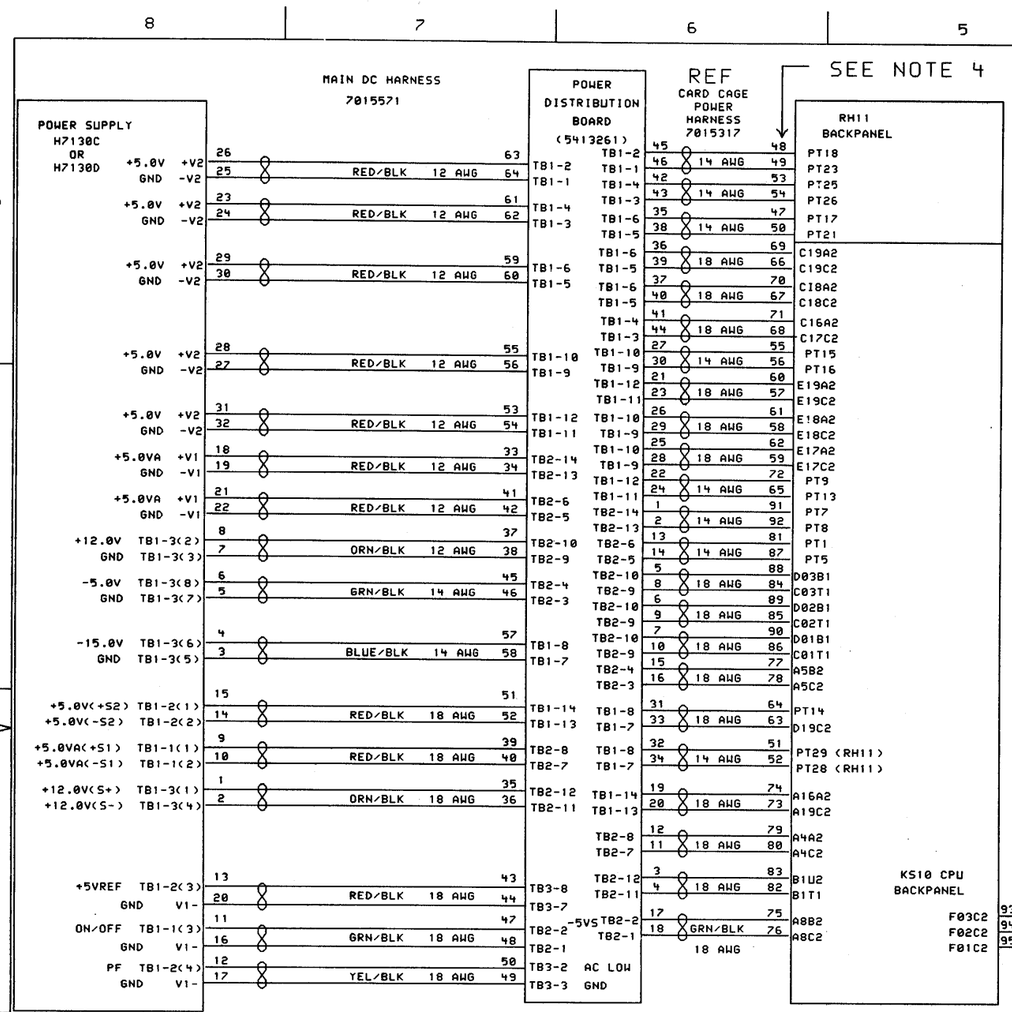
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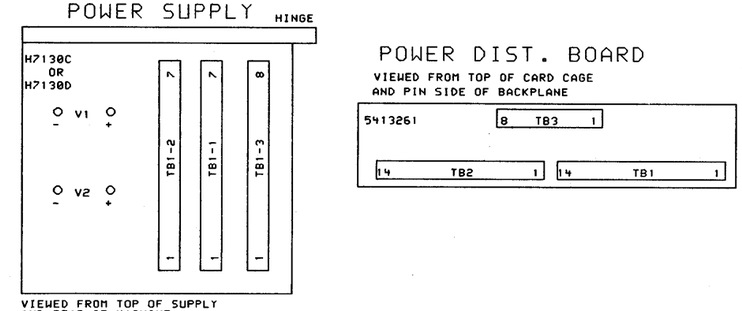
REVISIONS		
CHK	CHANGE NO.	REV

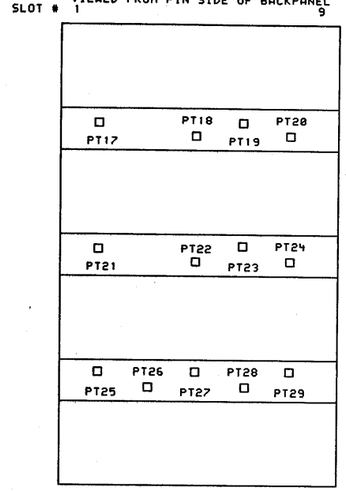
DRN S.Toomey	DATE 26-APR-78	ENG. F.Coll	DATE 28 Apr 78	TITLE: KS10 PROCESSOR UNIT ASSY	
CHK D. J. Nixon	DATE 27 Apr 78	BOARD LOCATION:			
ULACKS.DRW[4,331] 26-APR-78 14:04		NEXT HIGHER ASSEMBLY:		SIZE D / CODE UA / NUMBER KS10-0-0	REV.
FIRST USED ON OPTION/MODEL: KS10		B-DD-KS10-0			

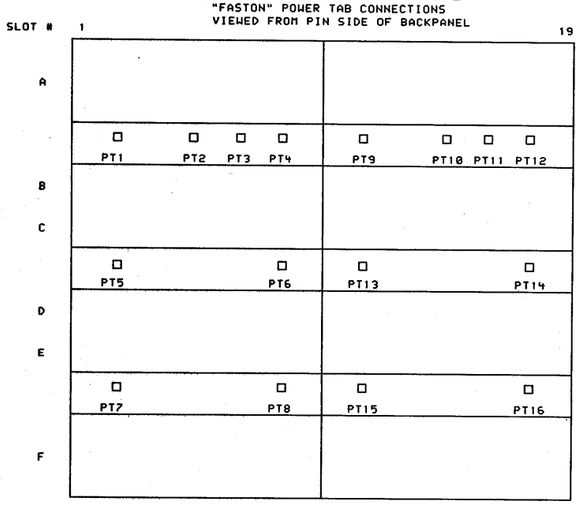
SHEET 28 OF 31

SIZE D | CODE UA | NUMBER KS10-0-0 | REV.









NOTES:

1. THIS PRINT IS FOR A POWER SUPPLY (H7130C OR H7130D), POWER SUPPLY CASE IS SILVER IN COLOR.
2. BEFORE POWER SUPPLY HARNESS IS WIRED TO POWER SUPPLY, REMOVE LOCAL SENSE WIRES FROM V1, V2, & V3.
3. REMOVE JUMPERS FROM TB1-1(3) TO TB1-3(8) AND TB1-1(2) TO TB1-3(7), BEFORE POWER SUPPLY IS MOUNTED IN KS10 CABINET.
4. INDICATES BRADY MARKER NUMBER ON HARNESS.
5. MAIN DC HARNESS PART NUMBER FOR THIS SUPPLY IS 7015571.

POWER SUPPLY DC WIRING [H7130C OR H7130D]

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REVISIONS		
CHK	CHANGE NO.	REV

digital

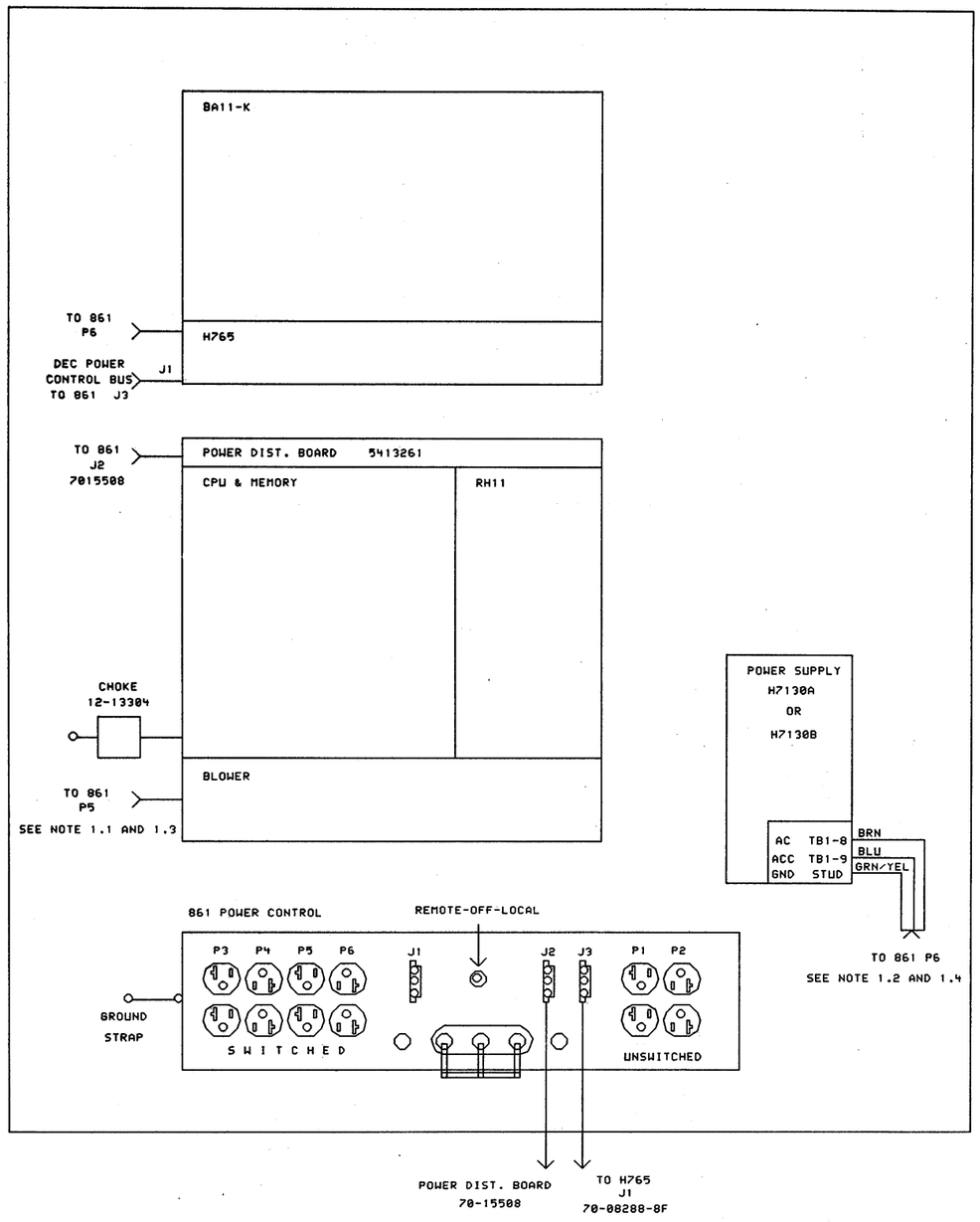
DRW. S. Loomby — DATE 26-APR-78
CHK'D. J. [illegible] — DATE 27 Apr 78
ENG. T. Wolf — DATE 28 Apr 78
BOARD LOCATION: SHEET 29 OF 31
ULDCKS.DRW[4,331] 25-APR-78 16:22
NEXT HIGHER ASSEMBLY: B-DD-KS10-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

mL

KS10 CABINET



NOTES:

1.1 FOR 60HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014323-3
1.2 FOR 60 HZ OPERATION, POWER SUPPLY (H7130A) USES POWER CORD D-IA-7015137.
1.3 FOR 50HZ OPERATION, BLOWER TO BE WIRED WITH AC POWER CORD - 7014324-3
1.4 FOR 50HZ OPERATION, POWER SUPPLY (H7130B) USES POWER CORD D-IA-7015325.
2.1 BELOW DESCRIBES OUTLETS FOR 861-C POWER CONTROL:

	CURRENT CAPACITY	CIRCUIT	
P1	20A	1	UN-SW
P2	20A	2	UN-SW
P3	20A	1	SW
P4	20A	1	SW
P5	20A	2	SW
P6	20A	2	SW

2.2 BELOW DESCRIBES OUTLET FOR 861-B POWER CONTROL

	CURRENT CAPACITY	CIRCUIT	
P1	16A	1	UN-SW
P2	16A	2	UN-SW
P3	16A	1	SW
P4	16A	1	SW
P5	16A	2	SW
P6	16A	2	SW

3. GROUND STRAPS ARE TO BE USED TO PROVIDE A SOLID GROUND FOR POWER CONTROL.
4.1 FOR 60HZ (KS-10) OPERATION USE:
H765A POWER SUPPLY
H7130A POWER SUPPLY
861-C POWER CONTROL
12-13956 BLOWER
4.2 FOR 50HZ (KS-10-) OPERATION USE:
H765B POWER SUPPLY
H7130B POWER SUPPLY
861-B POWER CONTROL
12-13956 BLOWER
5. VIEW FROM REAR OF CABINET.
6. DRAWING NOT TO SCALE.

AC POWER WIRING FOR H7130A & H7130B
DEC P/N 3014945-00 & 3014945-01 RESPECTIVELY

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REVISIONS

CHK	CHANGE NO.	REV

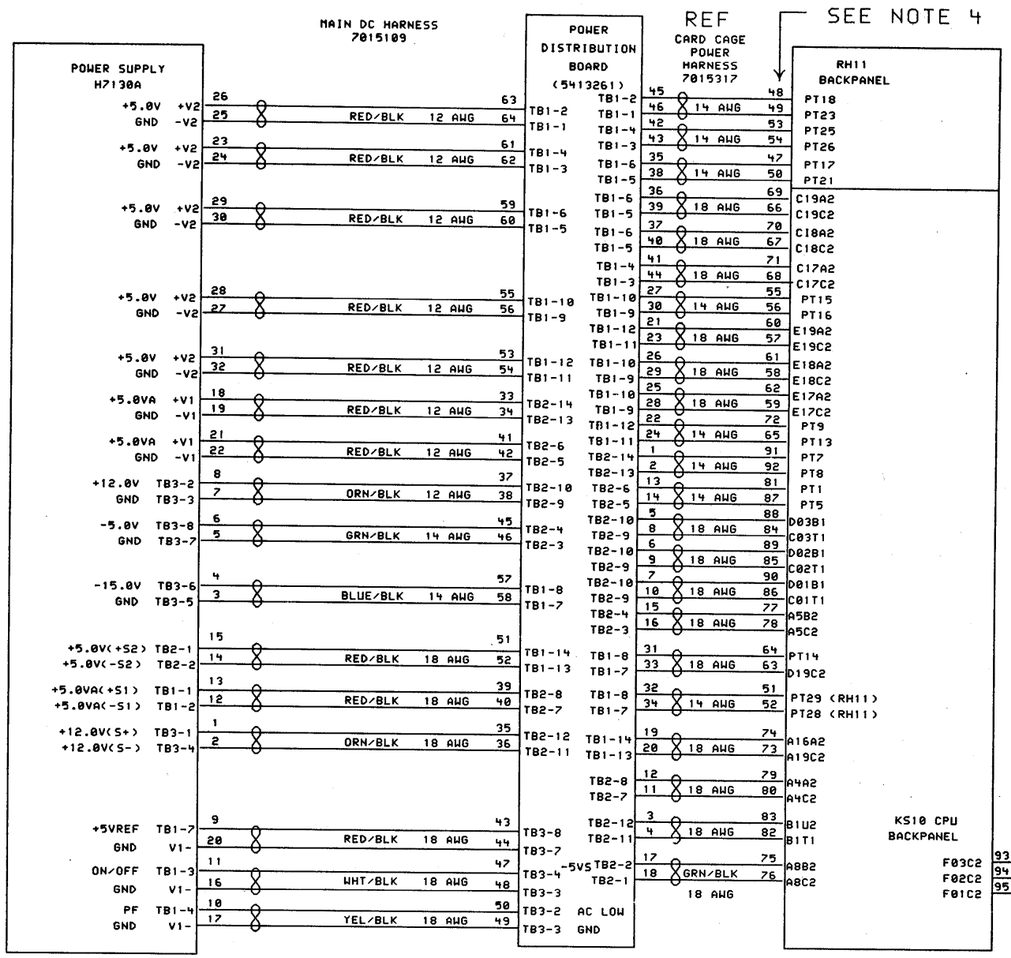
digital

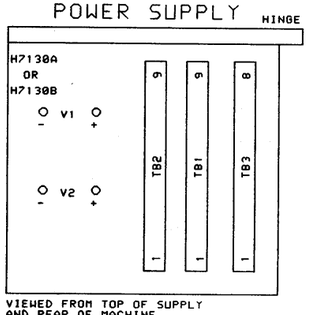
DRN S. Toomey DATE 26-APR-78
CHK D. J. Moran DATE 27 Apr 78
ENG F. Gifford DATE 28 Apr 78
BOARD LOCATION:
SHEET 30 OF 31
ACKS10.DRW[4,331] 26-APR-78 14:05
NEXT HIGHER ASSEMBLY: B-DD-KS10-0
FIRST USED ON OPTION/MODEL: KS10

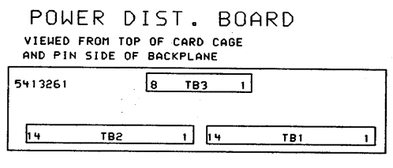
TITLE: KS10 PROCESSOR UNIT ASSY

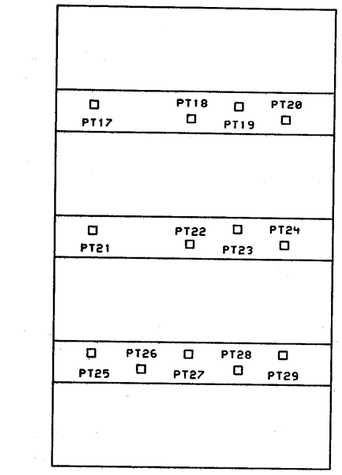
SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

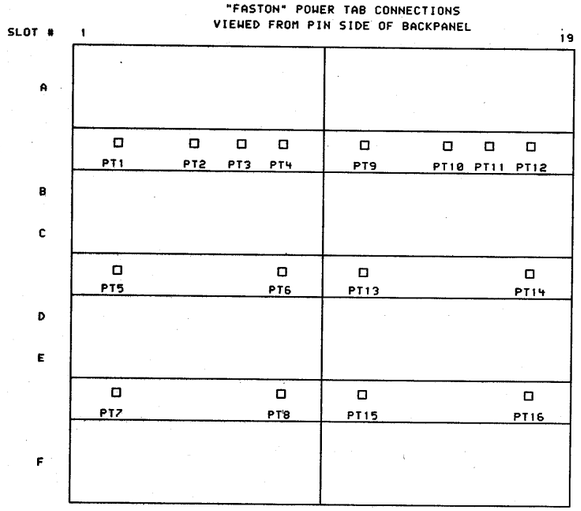
MR











NOTES:

1. THIS PRINT IS FOR A POWER SUPPLY (H7130A OR H7130B). POWER SUPPLY CASE COLOR IS BLUE.
2. BEFORE POWER SUPPLY HARNESS IS WIRED TO POWER SUPPLY, REMOVE LOCAL SENSE WIRES FROM V1, V2, & V3.
3. REMOVE JUMPER FROM TB1-2 AND TB1-3, BEFORE POWER SUPPLY IS MOUNTED IN KS10 CABINET.
4. INDICATES BRADY MARKER NUMBER ON HARNESS.
5. MAIN DC HARNESS PART NUMBER FOR THIS SUPPLY IS 7015109.

POWER SUPPLY DC WIRING [H7130A OR H7130B]

DEC P/N 3014945-00 & 3014945-01 RESP.

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. S. Toomey	DATE 26-APR-78	ENG. [illegible] DATE [illegible]
	CHK'D. J. Hixon	DATE 26-APR-78	BOARD LOCATION: SHEET 31 OF 31
DCKS10.DRW[4,331]	26-APR-78 14:25	NEXT HIGHER ASSEMBLY:	
FIRST USED ON OPTION/MODEL: KS10		B-DD-KS10-0	

TITLE: KS10 PROCESSOR UNIT ASSY

SIZE	CODE	NUMBER	REV.
D	UA	KS10-0-0	

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. Huson	CHECKED J. Huson	SECTION 1
DATE 24 Apr 78	DATE 27 Apr 78	
ENG F. Gal	PROD L. Connolly	ISSUED SECT. 1
DATE 28 Apr 78	DATE 28 APR 78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION KS1Ø-AA	KS1Ø-SB
1	MPØØ54Ø	KS1Ø FIELD MAINTENANCE PRINT SET	1	1
2	DSXLA **	KS1Ø DIAG. INSP. MAGTAPE	1	1
3	3012558-1 **	MICROFICHE READER 6ØHZ	1	-
4	3012558-2 **	MICROFICHE READER 5ØHZ	-	1
5	12130191	SPANNER WRENCH	1	1
6	MPØØ132	DZ11 PRINT SET VOL. 1	1	1
7	MPØØ136	DZ11 PRINT SET VOL. 2	1	1
8	MPØØ339 *	KMC11 PRINT SET	1	1
9	MPDUP11-Ø *	DUP11 PRINT SET	1	1
10	BC06S-25	MASSBUS CABLE FOR RH11-C TO DISK	1	1
11	B-DD-RH11-C	RH11-C PRINT SET	1	1
12	3615670-01	FIBERGLASS TAPE	1	1
		*PROVIDED IF OPTION IS REQUESTED		
		**SELF MAINTENANCE CUSTOMERS (CLASS 2) DO NOT RECEIVE DOUBLE ASTERISKED (**) ITEMS		

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
KS1Ø SHIP LIST		A	PL	KS1Ø-SH-Ø		
	SHEET 1 OF 1	DIST				

DEC FORM DRA

MR

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UNIT VARIATIONS

VAR	TITLE
KS1Ø-PA	CENTRAL PROCESSOR ASSY 50/60 HZ

REVISIONS

REV.	CHANGE NO.	CHK

USED ON OPTION/MODEL: KS1Ø

SHEET 1 OF 5

DRN. M Buscarello	DATE 3 Oct 77	
CHK'D. J Huson	DATE 20 Apr 78	
PROJ. ENG. T. Davidson	DATE 4/28/78	
PROD. W Beckmann	DATE 4-21-78	

TITLE: CENTRAL PROCESSOR ASSY

digital

SIZE	CODE	NUMBER	REV
B	DD	KS1Ø-PA	

DIST.

DRB 106A

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SIZE	CODE	NUMBER	REV.
B	DD	KS1Ø-PA	

1 CENTRAL PROCESSOR ASSY
E-UA-KS1Ø-PA-Ø

2 ASSY CARD CAGE FRAME
E-IA-7014464-0-0

3 WELDMENT, BOTTOM PAN
D-IA-7014457-0-0

4 WELDMENT, SIDE PANEL
D-IA-7014461-0-0

5 WELDMENT, REAR HORIZONTAL
D-IA-7014456-0-0

6 WELDMENT, BRACKET MOUNTING
C-IA-7014498-0-0

7 CARD GUIDE ASSY
D-IA-7012572-0-0

8 MASSBUS CONVERTER (RH11)
B-DD-RH11-Ø

9 WELDMENT REAR COVER
C-IA-7014455-0-0

10 ASSY CABLE RETAINER
C-IA-7014475-0-0

11 WELDMENT CABLE HANGERS
D-IA-7014458-0-0

12 KS1Ø CONSOLE
B-DD-M8616-Ø

13 MS1Ø MEMORY CONTROL
B-DD-M8619-0

14 KS1Ø UNIBUS ADAPTER
B-DD-M8619-Ø

15 KS1Ø DATA PATH EXECUTE
B-DD-M862Ø-Ø

16 KS1Ø DATA PATH MEMORY
B-DD-M8621-Ø

17 KS1Ø CRAM ADDRESS
B-DD-M8622-Ø

18 KS1Ø CONTROL RAM
B-DD-M8623-Ø

19 MS1Ø MOS MEMORY ARRAY
B-DD-M8629-Ø

20 PANEL ASSY, FRONT COVER
D-IA-7014459-0-0

21 WELDMENT, FRONT COVER PANEL
D-IA-7014460-0-0

22 BACKPLANE ASSY
D-IA-7014486-0-0

23 BACKPLANE ASSY
D-IA-7009182-0-0

24 SENSOR ASSY, HEAT
D-AD-7015067-0-0

25 POWER DISTRIBUTION BOARD
B-DD-5413261-0

26 CARD CAGE CABLE CLAMP ASSY
D-IA-7015135-0-0

27 UNIBUS TO H854 ADAPTER BOARD
B-DD-M9Ø14-Ø

TITLE		SIZE	CODE	NUMBER	REV
CENTRAL PROCESSOR ASSY	SHEET 2 OF 5	B	DD	KS1Ø-PA	

DRB 107

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-KS1Ø-PA-Ø	CENTRAL PROCESSOR ASSY (UA)	E/M
	A-PL-KS1Ø-PA-Ø	CENTRAL PROCESSOR ASSY (PL)	E/M
	D-IA-7419316-0-0	BRACKET BLOWER MTG	M
	D-IA-7419312-0-0	COVER, TOP	M
	D-IA-7419816-0-0	BRACKET, POWER DISTRIBUTION	M
	D-UA-BCØ5L-Ø-Ø	CABLE, JUMPER	M
	D-PS-1212405-0-0	CARD GUIDE, SINGLE	M
	D-PS-1211630-0-0	CARD GUIDE	M
	E-IA-7015317-0-0	CARD CAGE POWER HARNESS	M
	D-IA-7015269-0-0	BACKPLANE SIGNAL HARNESS	M
	D-IA-7015108-0-0	CABLE, CONSOLE PANEL	E/M
	E-IA-7015571-0-0	HARNESS, MAIN D.C.	E/M
	C-IA-7015508-0-0	CABLE ASSY 861 TO PWR. DIST. BOARD	E/M
2	E-IA-7014464-0-0	ASSY CARD CAGE FRAME	M
	D-IA-7419317-0-0	STIFFENER VERTICAL	M
3	D-IA-7014457-0-0	WELDMENT BOTTOM PAN	M
	E-MD-7419319-0-0	PAN, BOTTOM	M
	D-IA-7419311-0-0	EXTENDER BOTTOM PAN	M
	C-MD-7419310-0-0	FILLER BOTTOM PAN	M
	C-MD-7419309-0-0	STIFFENER HORIZONTAL	M
	D-MD-7419821-0-0	CLIP BLOWER MTG	M
4	D-IA-7014461-0-0	WELDMENT, SIDE PANEL	M
	E-IA-7419320-0-0	PANEL, SIDE	M
	B-IA-7414955-0-0	BRACKET	M
5	D-IA-7014456-0-0	WELDMENT, REAR HORIZONTAL	M
	D-MD-7419314-0-0	HORIZONTAL, REAR	M
	C-MD-7419308-0-0	FILLER	M
6	C-IA-7014498-0-0	WELDMENT, BRACKET MOUNTING	M
	C-MD-7419803-0-0	BRACKET MOUNTING	M
	B-MD-7419804-0-0	GUSSET	M
7	D-IA-7012572-0-0	CARD GUIDE ASSY	M
	C-IA-7416401-0-0	BRACKET, CARD GUIDE MTG	M
	C-MD-7416400-0-0	SUPPORT, CARD GUIDE	M
	C-MD-7416399-0-0	GUIDE, CARD	M
8	B-DD-RH11-Ø	MASSBUS CONVERTER (RH11)	E/M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: CENTRAL PROCESSOR ASSY

SHEET 3 OF 5 | SIZE B | CODE DD | NUMBER KS1Ø-PA | REV

DRB 108A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
9	C-IA-7014455-0-0	WELDMENT REAR COVER	M
	D-MD-7419313-0-0	REAR COVER	M
	B-MD-7416223-0-0	LATCH	M
10	C-IA-7014475-0-0	ASSY CABLE RETAINER	M
	C-MD-7419306-0-0	RETAINER, CABLE	M
11	D-IA-7014458-0-0	WELDMENT CABLE HANGERS	M
	B-MD-7419305-0-0	ROD, HORIZONTAL	M
	B-MD-7419304-0-0	ROD, SUPPORT	M
12	B-DD-M8616-Ø	KS1Ø CONSOLE	E
13	B-DD-M8618-Ø	MS1Ø MEMORY CONTROL	E
14	B-DD-M8619-Ø	KS1Ø UNIBUS ADAPTER	E
15	B-DD-M8620-Ø	KS1Ø DATA PATH EXECUTE	E
16	B-DD-M8621-Ø	KS1Ø DATA PATH MEMORY	E
17	B-DD-M8622-Ø	KS1Ø CRAM ADDRESS	E
18	B-DD-M8623-Ø	KS1Ø CONTROL RAM	E

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
CENTRAL PROCESSOR ASSY	4 OF 5	B	DD	KS1Ø-PA	

DRB 108A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
19	B-DD-M8629-Ø	MS1Ø MOS MEMORY ARRAY	E
20	D-IA-7014459-0-0	PANEL ASSY, FRONT COVER	M
	C-MD-7417660-0-0	GASKET, STRIP	M
21	D-IA-7014460-0-0	WELDMENT, FRONT COVER PANEL	M
	B-MD-7419303-0-0	LATCH	M
	D-IA-7419318-0-0	PANEL, FRONT COVER	M
22	D-IA-7014486-0-0	BACKPLANE ASSY	E/M
	B-MD-7419351-0-0	BAR, BACKPLANE SUPPORT	M
	A-WL-7014486-0-1	GENERAL WIRING SHEET	E
23	D-IA-7009182-0-0	BACKPLANE ASSY	E/M
	5010332	ETCHED CIRCUIT BOARD	E
	E-PS-1211439-0-0	LOGIC FRAME (11Ø5)	M
	E-PS-1210258-0-0	288 PIN BLOCK H863	M
	D-PS-1211425-0-0	72 PIN CONNECTOR BLOCK H8Ø3Ø	M
	K-WL-DH11-Ø-2	WIRE LIST	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
24	D-AD-7015067-0-0	SENSOR ASSY, HEAT	E/M
	C-MD-7419815-0-0	SENSOR BRACKET	M
	C-MD-7419814-0-0	BRACKET HOLD DOWN	M
25	B-DD-5413261-0	POWER DISTRIBUTION BOARD	E/M
	D-CS-5413261-0-0		
26	D-IA-7015137-0-0	CARD CAGE CABLE CLAMP ASSY	M
	C-MD-7420099-0-0	CLAMP, CARD CAGE CABLE	M
27	B-DD-M9Ø14-0	UNIBUS TO H854 ADAPTER BOARD	E/M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
CENTRAL PROCESSOR ASSY	5 OF 5	B	DD	KS1Ø-PA	

DRB 108A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. Huson	CHECKED J Huson	SECTION 1
DATE 3 Oct 77	DATE 20 Apr 78	
ENG F. Doll	PROD [signature]	ISSUED SECT. 1
DATE 20 Apr 78	DATE 4-21-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION
1	E-IA-7014464-0-0	ASSY, CARD CAGE FRAME	1
2	D-UA-RH11-C-Ø	RH11 UNIT ASSY	1
3	D-IA-7014486-0-0	BACKPLANE ASSY	1
4	C-IA-7014475-0	ASSY, CABLE RETAINER	2
5	D-IA-7014458-0-0	WELDMENT, CABLE HANGERS	1
6	D-IA-7419316-0-0	BRACKET, BLOWER MTG.	1
7	A-SP-1213956-0-0	BLOWER CENTRIFUGAL	1
8	D-PS-1212405-0	CARD GUIDE, SINGLE	29
9	9007036	GROMMET, CATAPILLAR	A/R
10	9006023-03	SCR, PHL TRUSS HD #6-32 x .44 LG	14
11	9006659	WASHER, FLAT #6 HOLE	4
12	9007649	WASHER, EXT TOOTH LOCK #6 HOLE	20
13	9009613-01	SCR, PHL PAN HD TAPTITE #8-32 x 1.0 LG	12
14	9008072	WASHER, EXT TOOTH LOCK #8 HOLE	12
15	9006071-03	SCR, PHL TRUSS HD #10-32 x .38 LG	9
16	9007651	WASHER, EXT TOOTH LOCK #10 HOLE	9
17	E-UA-M8616-Ø-Ø	KS1Ø CONSOLE	1
18	E-UA-M8618-Ø-Ø	MS1Ø MEMORY CONTROL	1
19	E-UA-M8619-Ø-Ø	KS1Ø UNIBUS ADAPTER	2
20	E-UA-M862Ø-Ø-Ø	KS1Ø DATA PATH EXECUTE	1
21	E-UA-M8621-Ø-Ø	KS1Ø DATA PATH MEMORY	1
22	E-UA-M8622-Ø-Ø	KS1Ø CRAM ADDRESS	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
CENTRAL PROCESSOR ASSY	E-UA-KS1Ø-PA-Ø	A	PL	KS1Ø-PA-Ø		
	SHEET 1 OF 3	DIST				

DEC FORM

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. Huson	CHECKED J Huson	SECTION 1
DATE 30 Oct 77	DATE 20 Apr 78	
ENG F Doll	PROD [signature]	ISSUED SECT. 1
DATE 2 Apr 78	DATE 4-20-78	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION
23	E-UA-M8623-Ø-Ø	KS1Ø CONTROL RAM	1
24	E-UA-MS1Ø-BA	MS1Ø MOS MEMORY ARRAY (M8629)	2
25	D-IA-7419312-0-0	COVER, TOP	1
26	D-IA-7014459-0-0	PANEL ASSY, FRONT COVER	1
27	C-IA-7014455-0-0	WELDMENT, REAR COVER	1
28	D-PS-1211630-0-0	CARD GUIDE	3
29	1213304	LINE FILTER	1
30	9009041-01	SCR, NYLON PAN HD #6-32 x .250 LG	2
31	D-IA-7419816-0-0	BRACKET POWER DISTRIBUTION	1
32	9006020-03	SCR, PHL TRUSS HD #6-32 x .25 LG	6
33	9008340	PLASTIC CLAMP	2
34	9008264	PAD, ADHESIVE	2
35	9006707	WASHER FLAT NYLON #6	10
36	9006572	NUT WING #10-32	3
37	C-IA-7015508-0-0	CABLE ASSY, 861 TO PWR DIST. BOARD	1
38	D-AD-7015067-0-0	SENSOR ASSY, HEAT	2
39	D-UA-5413261	POWER DISTRIBUTION BOARD	1
40	D-UA-BCØ5L-2	H855 TO H855 3M CABLE	3
41	E-IA-7015317-0-0	CARD CAGE PWR. HARNESS	1
42	D-UA-M9Ø14-Ø-Ø	UNIBUS TO H854 ADAPTER BOARD	1
43	9008212	SCR, SLOT PAN HD NYLON #6-32 x .44 LG	10
44	D-IA-7015269-0-0	BACKPLANE SIGNAL HARNESS	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
CENTRAL PROCESSOR ASSY	E-UA-KS1Ø-PA-Ø	A	PL	KS1Ø-PA-Ø		
	SHEET 2 OF 3	DIST				

DEC FORM
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. Huson DATE 30 Oct 77	CHECKED J Huson DATE 20 Apr 78	SECTION 1
ENG T. Doel DATE 20 Apr 78	PROD W.M. Bathauer DATE 4-20-78	ISSUED SECT. 1

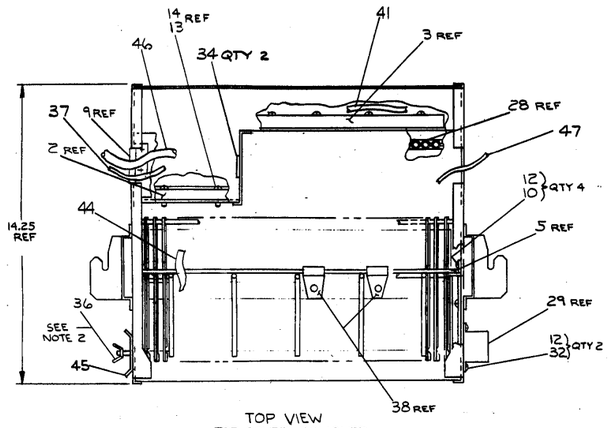
ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION
45	D-IA-7015135-0-0	CLAMP ASSY, CARD CAGE CABLE	1
46	E-IA-7015571-0-0	HARNESS, MAIN D.C.	1
47	D-IA-7015108-0-0	CABLE, CONSOLE PANEL	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
CENTRAL PROCESSOR ASSY	E-UA-KSIØ-PA-Ø	A	PL	KSIØ-PA-Ø		
	SHEET 3 OF 3			DIST		

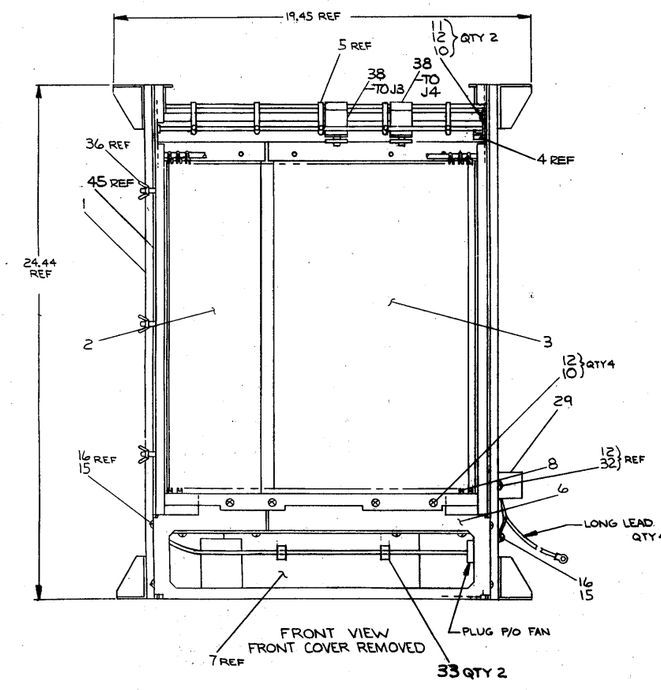
DEC FORM
DRA 110

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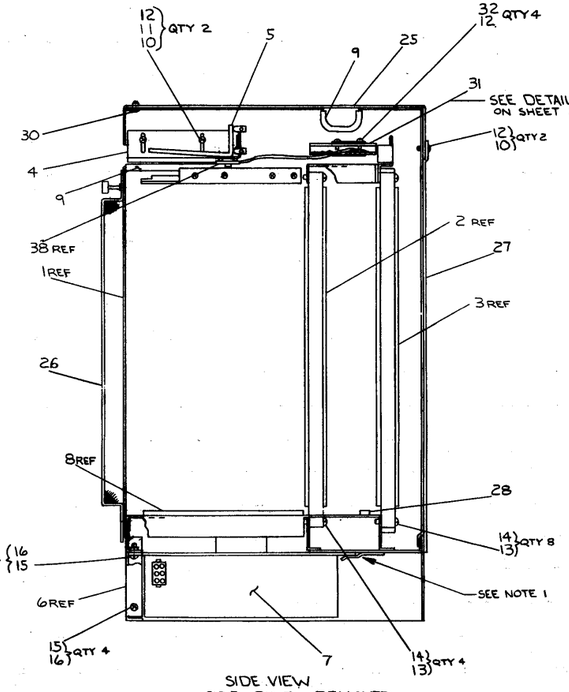
NOTES:
1. USE OF LPS "1 OR SIMILAR LUBRICANT ON REAR EDGE OF BLOWER (ITEM # 7) WILL FACILITATE INSERTION & REMOVAL.
2. AFTER ASSEMBLY OF ITEM "36, DEFORM FIRST 4 THREADS OF STUD TO CAPTIVATE WING NUT.
3. REFER TO A-SP-KS10-PA-1 FOR BACKPLANE ALIGNMENT PROCEDURE.



TOP VIEW
TOP COVER REMOVED



FRONT VIEW
FRONT COVER REMOVED

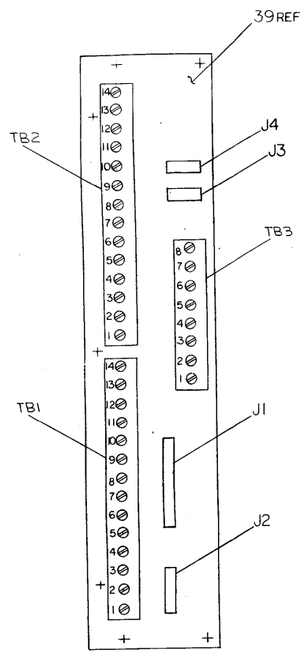


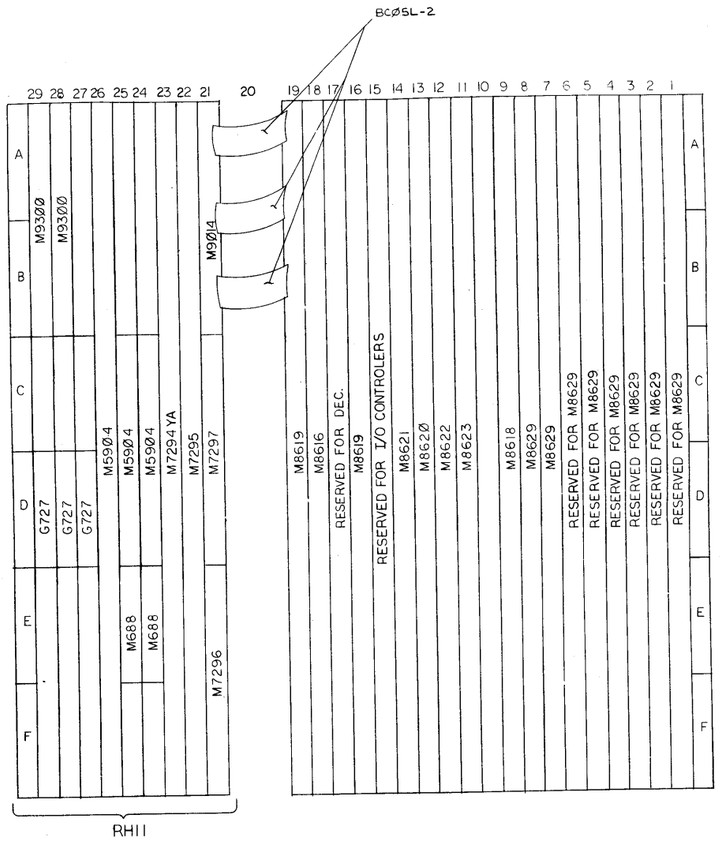
SIDE VIEW
SIDE PANEL REMOVED

CAUTION:
FOR PARTS LIST SEE
A-PL-KS10-PA-0

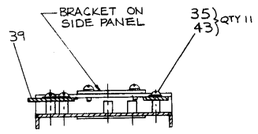
| | | |

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VIEWED FROM MODULE SIDE



DETAIL "A"
SCALE: 1/1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE/CODE	NUMBER	REV.
CENTRAL PROCESSOR ASSY	E UA	KSIØ-PA-Ø	
SCALE NONE SHEET 2 OF 3	DIST.		

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HARNESS CONNECTION CHART

ITEM	HARNESS TERMINATION POINT	HARNESS TERMINATION CONNECTOR	CONNECTION	WITH
38			J4	
39			J3	
41	1		TB2-14	
	2		TB2-13	
	3		TB2-12	
	4		TB2-11	
	5,6,7		TB2-10	
	8,9,10		TB2-9	
	11		TB2-7	
	12		TB2-6	
	13		TB2-5	
	14		TB2-4	
	15		TB2-3	
	16		TB2-2	
	17		TB2-1	
	18		TB1-14	
	20		TB1-13	
	21,22		TB1-12	
	23,24		TB1-11	
	25,26,27		TB1-10	
	28,29,30		TB1-9	
	31,32		TB1-8	
	33,34		TB1-7	
	35,36,37		TB1-6	
	38,39,40		TB1-5	
	41,42		TB1-4	
	43,44		TB1-3	
	45		TB1-2	
	46		TB1-1	
	47		PT17	
	48		PT16	
	49		PT23	
	50		PT21	
	51		PT29	
	52		PT28	
	53		PT25	
	54		PT26	
	55		PT15	
	56		PT18	
	57		E19C2	
	58		E18C2	
	59		E17C2	
	60		E19A2	
	61		E18A2	
	62		E17A2	
	63		D19C2	
	64		PT14	
	65		PT13	
	66		C19C2	
	67		C18C2	
	68		C17C2	
	69		C19A2	
	70		C18A2	
	71		C16A2	
	72		PT9	
	73		A19C2	
	74		A18A2	
	75		A8B2	
	76		A8C2	
	77		A5B2	
	78		A5C2	
	79		A4A2	
	80		A4C2	
	81		PT1	
	82		B1T1	
41	83		B1U2	

HARNESS CONNECTION CHART

ITEM	HARNESS TERMINATION POINT	HARNESS TERMINATION CONNECTOR	CONNECTION	WITH
41	84		C23T1	
	85		C22T1	
	86		C21T1	
	87		PT5	
	88		D23B1	
	89		D22B1	
	90		D21B1	
	91		PT7	
	92		PT8	
	93		F23C2	
	94		F22C2	
	95		F21C2	
	96		GND	
	97		GND	
41	98		GND	
44		P2	J2	
	10		C19F1	SOLDER
	11		C19J1	SOLDER
	11A		C19U2	SOLDER
	12		D19E1	SOLDER
	13		D19P1	SOLDER
	14		D19N1	SOLDER
	15		D18S1	SOLDER
	16		D18R1	SOLDER
	17		F18S1	SOLDER
44	18		F18R1	SOLDER
47		P2	J2	
		P1	J1	
46	33		TB2-14	
	34		TB2-13	
	35		TB2-12	
	36		TB2-11	
	37		TB2-10	
	38		TB2-9	
	39		TB2-8	
	40		TB2-7	
	41		TB2-6	
	42		TB2-5	
	43		TB3-8	
	44		TB3-7	
	45		TB2-4	
	46		TB2-3	
	47		TB2-2	
	48		TB2-1	
	49		TB3-3	
	50		TB3-2	
	51		TB1-14	
	52		TB1-13	
	53		TB1-12	
	54		TB1-11	
	55		TB1-10	
	56		TB1-9	
	57		TB1-8	
	58		TB1-7	
	59		TB1-6	
	60		TB1-5	
	61		TB1-4	
	62		TB1-3	
	63		TB1-2	
	64		TB1-1	
46	BLK		TB3-1	
37	RED		TB3-5	
	GRN		TB3-6	

REVISIONS		
CHK	CHANGE NO.	REV.

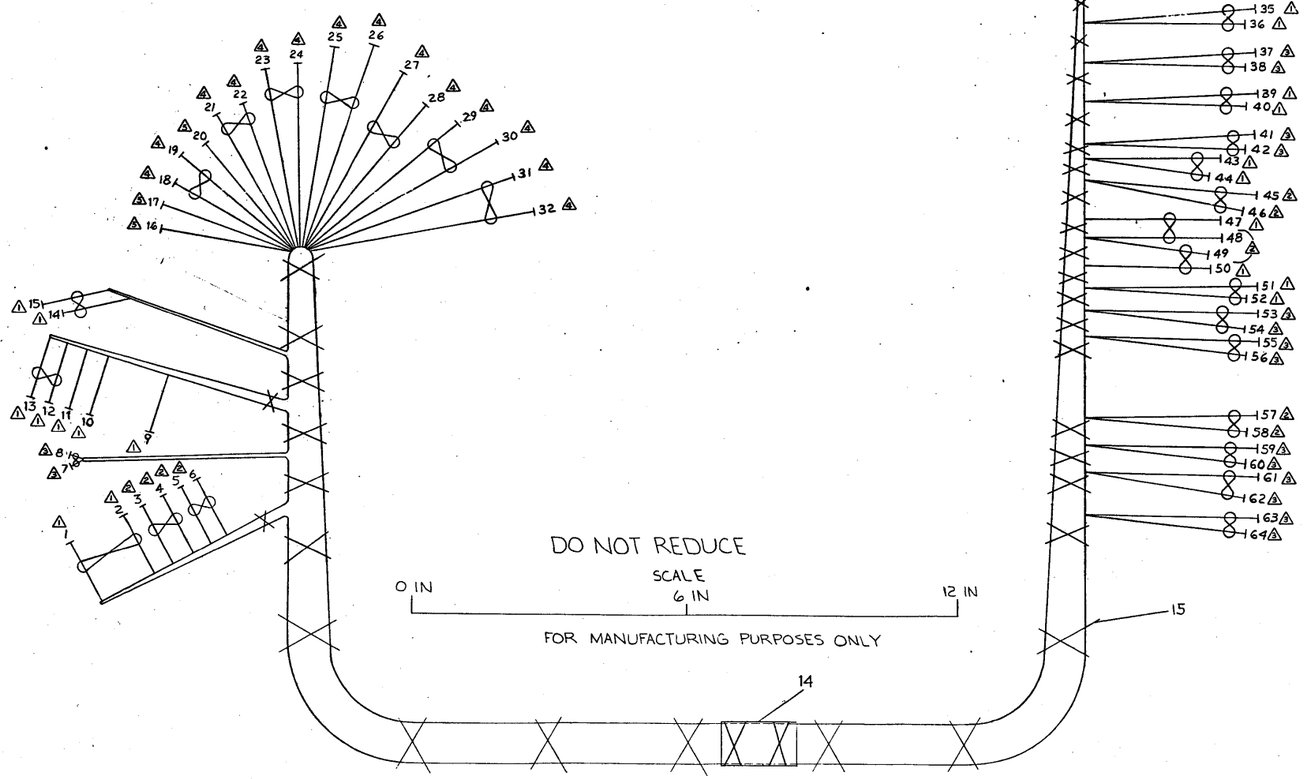
TITLE	SIZE	NUMBER	REV.
CENTRAL PROCESSOR ASSY	E	KSIØ-PA-Ø	
SCALE NONE SHEET 3 OF 3	DIST.		

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WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	REMARKS
1	18 TWP	BLK ORN	2 1		ITEM #10	36 35		ITEM #10	
2	18 TWP	BLK RED	12 13			40 39			
3	18 TWP	WHT BLK	11 16		ITEM #10 ITEM #9	47 48		ITEM #10 ITEM #11	
8	18 TWP	BLK YEL	17 10		ITEM #9 ITEM #10	49 50		ITEM #10 ITEM #10	
2	18 TWP	RED BLK	9 20		ITEM #10 ITEM #9	43 44		ITEM #10 ITEM #10	
4	14 TWP	BLK GRN	5 6		ITEM #11 ITEM #11	46 45		ITEM #11 ITEM #11	
5	14 TWP	BLK BLU	3 4		ITEM #11 ITEM #11	58 57		ITEM #11 ITEM #11	
7	12 TWP	BLK ORN	7 8		ITEM #12 ITEM #12	38 37		ITEM #12 ITEM #12	
2	18 TWP	BLK RED	14 15		ITEM #10 ITEM #10	52 51		ITEM #10 ITEM #10	
6	12 TWP	RED BLK	18 19		ITEM #13	33 34		ITEM #12	
6	12 TWP	RED BLK	21 22			41 42			
6	12 TWP	RED BLK	23 24			61 62			
6	12 TWP	BLK RED	25 26			64 63			
6	12 TWP	BLK RED	27 28			56 55			
6	12 TWP	RED BLK	29 30			59 60			
6	12 TWP	RED BLK	31 32		ITEM #13	53 54		ITEM #12	

NOTES:
1. USE TIE WRAPS (ITEMS 14 & 15) APPROX. EVERY 3 INCHES AND AT EVERY BREAKOUT.



ITEM	QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
X	34	CABLE TIE	9007850	13
	1	CABEL CABLE IDENT.	9009532	14
⚠	14	TERMINAL, RING TONGUE	9009696	13
⚠	18	TERMINAL, SPRING LUG	12150051-02	12
⚠	9	TERMINAL, SPRING LUG	12150051-01	11
⚠	19	TERMINAL, SPRING LUG	12150051-00	10
⚠	3	TERMINAL, RING TONGUE	9009637	9
	A/R	18 AWG TWP BLK/YEL	9107430-04	8
	A/R	12 AWG TWP BLK/ORN	9107798-03	7
	A/R	12 AWG TWP BLK/RED	9107798-02	6
	A/R	14 AWG TWP BLK/BLU	9107440-06	5
	A/R	14 AWG TWP BLK/GRN	9107440-05	4
	A/R	18 AWG TWP BLK/WHT	9107430-09	3
	A/R	18 AWG TWP BLK/RED	9107430-02	2
	A/R	18 AWG TWP BLK/ORN	9107430-03	1

DESCRIPTION | DWG./PART NO. | ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
ANGLES ±0° 30' | CLASS OF ACCURACY | NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN MICROINCHES | DECIMAL DIMS. | MEDIUM | PREFERRED
QUANTITY & VARIATION

0 TO 6	OVER 6 TO 30	OVER 30 TO 120	OVER 120 TO 315	OVER 315 TO 1000
.03	.1	.3	.8	2.0
±.062	±.016	±.005	±.008	±.020
±.031	±.008	±.003	±.004	±.010

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS
DO NOT SCALE DWG
MATERIAL SEE PARTS LIST
FINISH

DRN. | CHK'D | ENG. | PROJ. ENG. | PROD.
FIRST USED ON KS10
digital
TITLE HARNESS, MAIN DC. (NON UL)
NEXT HIGHER ASSY. 5-VA-KS10-0-A
SIZE E | CODE | NUMBER 12150109-0-C | REV.
SCALE | SHEET OF | DIST.

12150109-0-C

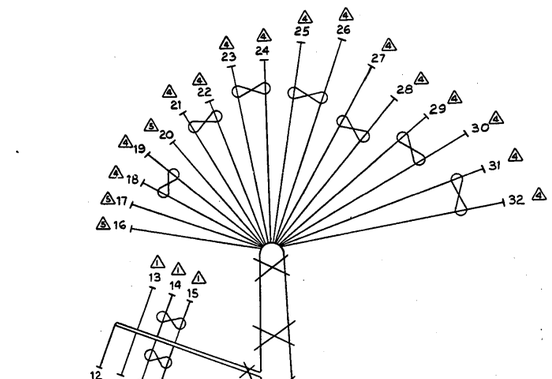
REV. | CHANGED | CHANGE NO. | DRN.

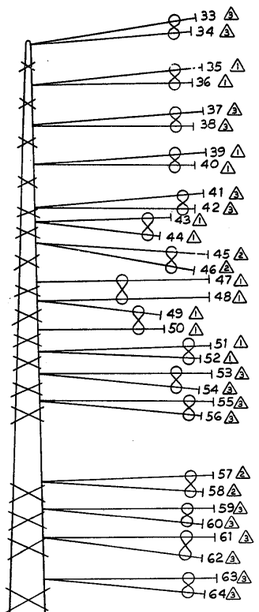
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WIRE TABLE

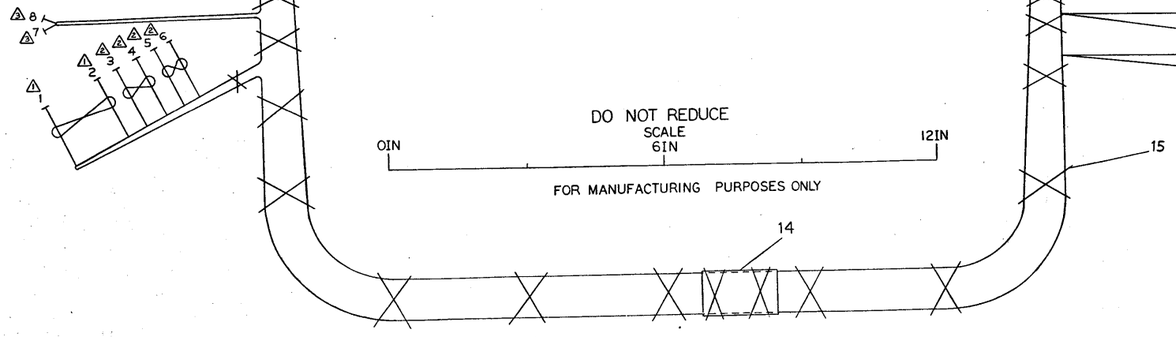
ITEM NO.	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	REMARKS
1	18 TWP	BLK	2		ITEM #10	36		ITEM #10	
		ORN	1			35			
2	18 TWP	BLK	10			40			
		RED	9			39			
3	18 TWP	GRN	11		ITEM #10	47			
		BLK	16		ITEM #9	48			
8	18 TWP	BLK	17		ITEM #9	49			
		YEL	12		ITEM #10	50			
2	18 TWP	RED	13		ITEM #10	43			
		BLK	20		ITEM #9	44		ITEM #10	
4	14 TWP	BLK	5		ITEM #11	46		ITEM #11	
		GRN	6		ITEM #11	45			
5	14 TWP	BLK	3		ITEM #11	58			
		BLU	4		ITEM #11	57		ITEM #11	
7	12 TWP	BLK	7		ITEM #12	38		ITEM #12	
		ORN	8		ITEM #12	37		ITEM #12	
2	18 TWP	BLK	14		ITEM #10	52		ITEM #10	
		RED	15		ITEM #10	51		ITEM #10	
6	12 TWP	RED	18		ITEM #13	33		ITEM #12	
		BLK	19			34			
6	12 TWP	RED	21			41			
		BLK	22			42			
6	12 TWP	RED	23			61			
		BLK	24			62			
6	12 TWP	BLK	25			64			
		RED	26			63			
6	12 TWP	BLK	27			56			
		RED	28			55			
6	12 TWP	RED	29			59			
		BLK	30			60			
6	12 TWP	RED	31			53			
		BLK	32		ITEM #13	54		ITEM #12	

NOTES:
1. USE TIE WRAPS (ITEMS 14 & 15) APPROX. EVERY 3 INCHES AND AT EVERY BREAKOUT.





DO NOT REDUCE
SCALE
6IN
0IN
12IN
FOR MANUFACTURING PURPOSES ONLY



X	34	CABLE TIE	9007880	15
	1	LABEL CABLE IDENT	9009532	14
⚠	14	TERMINAL,RING TONGUE	9009696	13
⚠	8	TERMINAL,SPRING LUG	1215051-02	12
⚠	8	TERMINAL,SPRING LUG	1215051-01	11
⚠	21	TERMINAL,SPRING LUG	1215051-00	10
⚠	3	TERMINAL,RING TONGUE	9009637	9
	A/R	18 AWG STRD BLK/YEL	9107430-04	8
	A/R	12 AWG STRD BLK/ORN	9107798-03	7
	A/R	12 AWG STRD BLK/RED	9107798-02	6
	A/R	14 AWG TWP BLK/BLU	9107440-06	5
	A/R	14 AWG TWP BLK/GRN	9107440-05	4
	A/R	18 AWG TWP BLK/GRN	9107430-05	3
	A/R	18 AWG TWP BLK/RED	9107430-02	2
	A/R	18 AWG TWP BLK/ORN	9107430-03	1
		DESCRIPTION	DWG./PART NO.	ITEM NO.

SYMBOLS 7015571-0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION ABOVE INCHES: OVER 0 TO 6	OVER 6 TO 30	OVER 30 TO 120	OVER 120 TO 400	OVER 400 TO 800
SURFACE QUALITY IN ✓ MICROINCHES	MEDIUM	±.004	±.008	±.012	±.016	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.063

QUANTITY & VARIATION

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS
DO NOT SCALE DWG
MATERIAL SEE PARTS LIST
FINISH

DRN. [illegible] 3 NOV 78
CHK'D [illegible] 3 NOV 78
ENG. [illegible]
PROJ. ENG. [illegible]
PROD. [illegible]
NEXT HIGHER ASSY. D-UA-KSI0-A-0
SCALE 1/1
SHEET 1 OF 1

FIRST USED ON KSI0

digital

TITLE HARNESS, MAIN D.C. (UL)

SIZE E | CODE | NUMBER IA 7015571-0-0 | REV.
DIST.

REV. | CHANGE NO. | DWN.

7015571-0-0 REV
IA
E

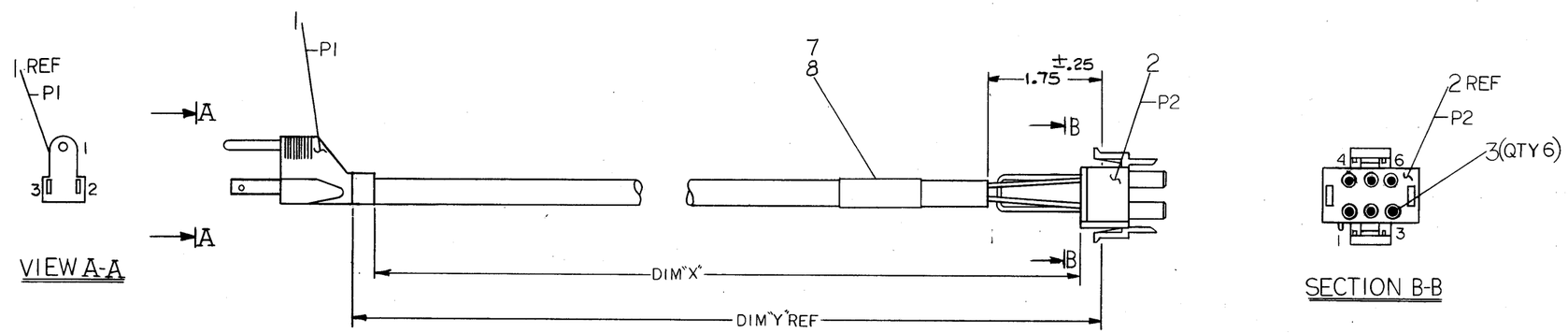
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WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONN	WITH	TO CONN	WITH	REMARKS
1	18	GRN/YEL	P1-1		P2-3	2&3	
1	18	BROWN	P1-2		P2-1	2&3	
1	18	BLUE	P1-3		P2-2	2&6	
4	18	BLUE	P2-4	2&3			JUMPER 3"LG
5	18	RED	P2-5	2&3	P2-6	2&3	JUMPER 3"LG

LEGEND

NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF	REMARKS
7014323-06	6FT-0IN ±.5IN	6FT-.5IN ±.5IN	



SECTION B-B

1	LABEL, CABLE IDENT.	9009532	8
2	TIE, CABLE	9007031	7
1	CONTACT, SOCKET	1212170-02	6
A/R	WIRE 18 AWG RED	9107360-22	5
A/R	WIRE 18 AWG BLUE	9107360-66	4
5	CONTACT, SOCKET	1212170-00	3
1	CONNECTOR UNIVERSAL	1212167-06	2
1	POWER CORD	1700043-01	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

	CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
ANGLES ±0° 30'						
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. W.D. Nolen	11 MAY 77	
CHK'D P. Giguere	10 May 77	
ENG. D. Martel	10 Aug 77	
PROJ. ENG. C. Dunn	12 May 77	
PROD. Ed Allen	10 Aug 77	
NEXT HIGHER ASSY.		
E-UA-11770		
SCALE NONE		
SHEET 1 OF 1		

FIRST USED ON PDP11/770

digital

TITLE
POWER CORD ASSEMBLY (FAN 115V)

SIZE	CODE	NUMBER	REV.
D	IA	7014323-0-0	A
DIST.			

REVISIONS			
CHK	CHANGE NO.	REV.	
D. MARTEL	7014323-CO001	A	

DEC FORM NO. DRD 100-C

MARSPACE P-1888

REV. A
NUMBER 7014323-0-0
SIZE D CODE IA

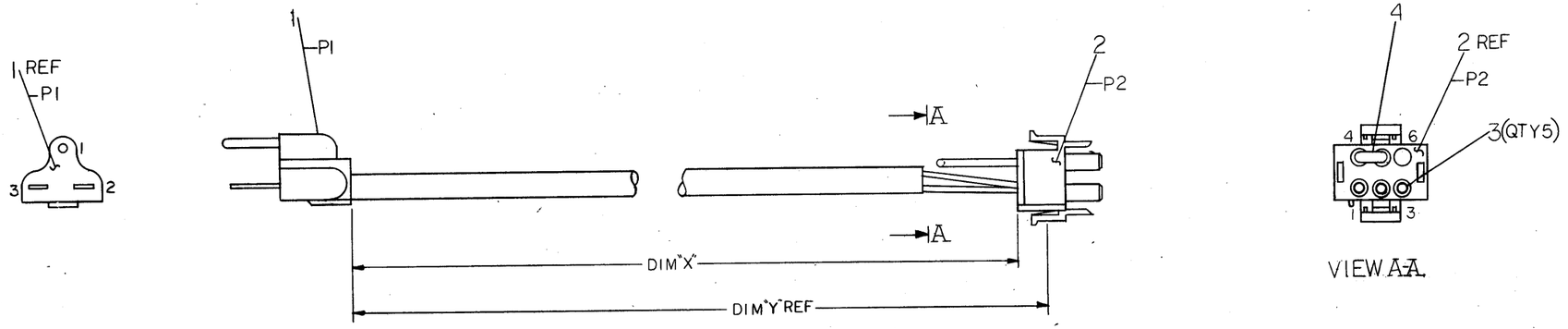
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WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONN	WITH	TO CONN	WITH	REMARKS
1	18	GRN/YEL	P1-1	—	P2-3	3	
	18	BROWN	P1-2	—	P2-1		
	18	BLUE	P1-3	—	P2-2		
4	18	RED	P2-4	2&3	P2-5		3.0 IN REF

LEGEND

NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF	REMARKS
7014324-06	6 FT-ØIN ±.5 IN	6 FT-5 IN ±.5 IN	



VIEW AA

A/R	DESCRIPTION	DWG./PART NO.	ITEM NO.
A/R	WIRE 18 AWG STRD RED	9107360-22	4
5	SKT, 14-20 AWG UNIVERSAL	1212170-00	3
1	PLUG, 6 PIN HOUSING	1212167-06	2
1	POWER CORD (240 V)	1700043-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN.	11 MAY 77	
CHK.	6 OCT 77	
ENG.	10 OCT 77	
PROJ. ENG.	10 OCT 77	
PROD.	10 OCT 77	

NEXT HIGHER ASSY. E-UA-11770-0-0

SCALE NONE

SHEET 1 OF 1

FIRST USED ON PDP11/780

digital

TITLE: POWER CORD ASSEMBLY (FAN 230V)

SIZE D | CODE IA | NUMBER 7014324-0-0 | REV.

DIST.

REVISIONS	REV.	CHANGE NO.	CHK

MANSPACE P-1459

DEC FORM NO. DRD 100-C

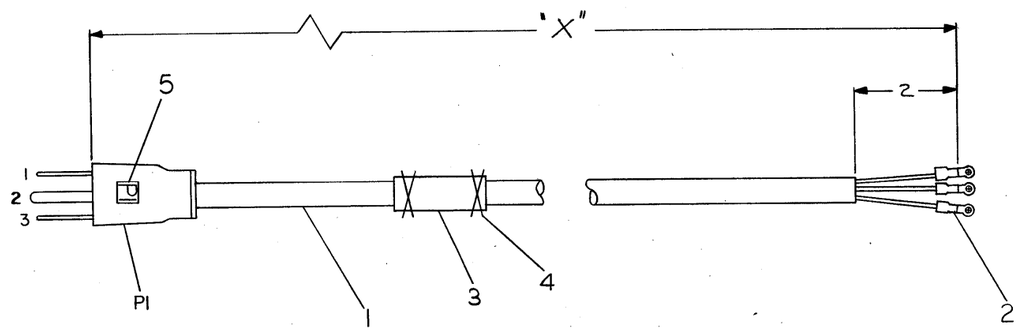
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WIRE TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH
1	14	BLU	P1-1	—	——	2
	14	GRN/YEL	P1-2	—	——	2
	14	BRN	P1-3	—	——	2

LEGEND	
NUMBER	DIM "X"
7015137-0-0	5 FEET

NOTES:
1. REWORK ITEM #1 BY CUTTING RECEPTACLE (FEMALE) OFF AND STRIPPING BACK OUTER INSULATION 2 INCHES.



ITEM	DESCRIPTION	DWG./PART NO.	QTY
1	DECAL (P1)	A-DC-7409872-1-0	5
2	TIE, CABLE	9007880	4
1	LABEL, CABLE IDENT.	9009532	3
3	TERM RING INSULATED 16-14AWG	9007928	2
1	PWR. CORD 60HZ	9107673-06	1

DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

SURFACE QUALITY IN MICROINCHES	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.3	OVER 1.3 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 90.0
	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.065	±0.1

ANGLES ±0° 30'

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. R.E. Olson 26SEP77
CHK'D F. Kelly 5 OCT 77
ENG. R.E. Olson 13DEC77
PROJ. ENG. [illegible] 13 DEC 77
PROD. [illegible] 4-18-78

NEXT HIGHER ASSY. D-UA-KSIØ-0-0

SCALE NONE

SHEET 1 OF 1

FIRST USED ON KSIØ

digital

TITLE
CORD, POWER
SUPPLY (60HZ)

SIZE	CODE	NUMBER	REV.
D	IA	7015137-0-0	

DIST.

REVISIONS	CHANGE NO.	CHK

MAKEPEACE P-1655

DEC FORM NO. DRD 100-C

REV.	NUMBER	SIZE	CODE
	7015137-0-0	D	IA

FSCM (CODE) IA 7015137-0-0

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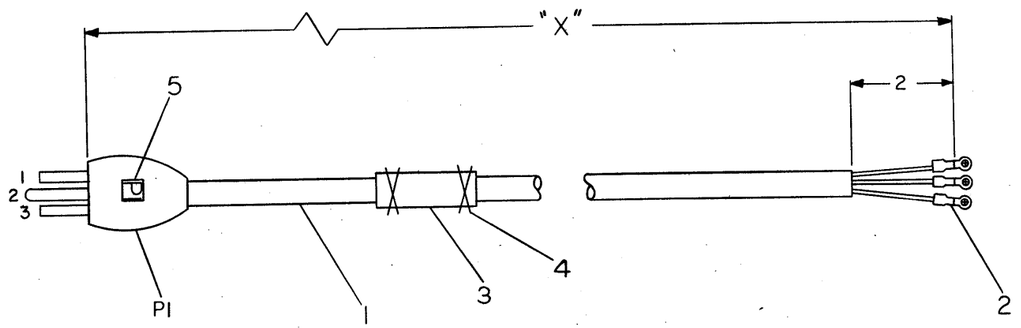
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH
1	18	BLU	P1-1	—	——	2
	18	GRN/YEL	P1-2	—	——	2
	18	BRN	P1-3	—	——	2

LEGEND

NUMBER	DIM "X"
7015325-0-0	5 FEET

REV. | NUMBER 7015325-0-0 | SIZE D | CODE IA | 2



ITEM	DESCRIPTION	DWG./PART NO.	QUANTITY
1	DECAL (P1)	A-DC-7409872-1-0	5
2	TIE, CABLE	9007880	4
1	LABEL, CABLE IDENT	9009532	3
3	TERM, RING INSLTD 22-16 AWG	9007929	2
1	PWR. CORD, 50 Hz	1700016-06	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30' / CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO .12	OVER .12 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES: MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
PREFERRED	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. G.J. Verde 13-DEC-77
CHK'D J. Hudson 11 Apr 78
ENG. F. Right 12 Apr 78
PROJ. ENG. F. Right 12 Apr 78
PROD. [illegible] 14-13-78

NEXT HIGHER ASSY. D-UA-KSIØ-Ø-Ø

SCALE NONE

SHEET 1 OF 1

FIRST USED ON KSIØ

digital

TITLE
CORD, POWER
SUPPLY (50HZ)

SIZE D | CODE IA | NUMBER 7015325-0-0 | REV.

DIST.

REVISIONS | REV. | CHANGE NO. | CHK.

MANUFACTURE PLANT

DEC FORM NO. DRD 100-C

SIZE D | CODE IA | NUMBER 7015325-0-0 | REV.

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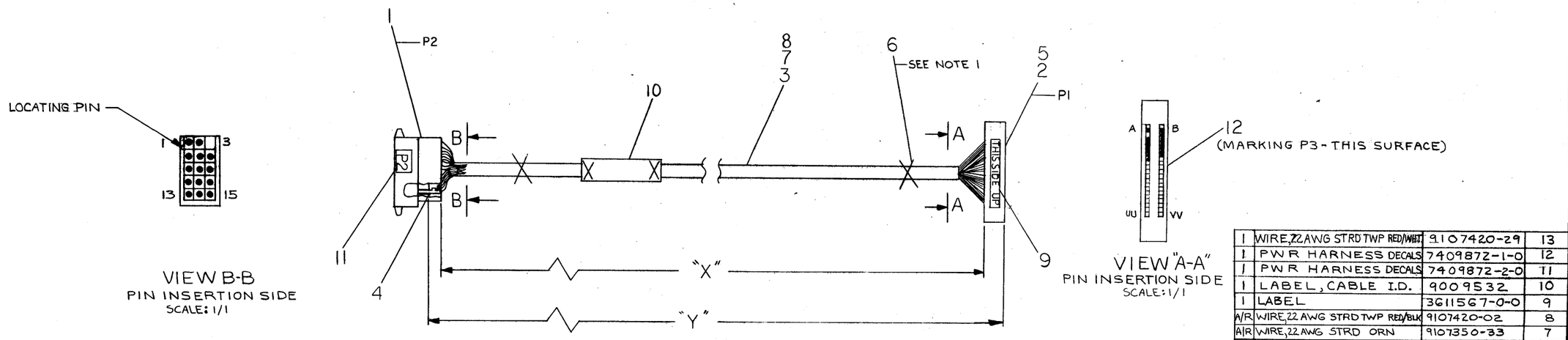
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
3	22	WHT	P2-13	ITEM #4	P1-P	ITEM #5	
3		WHT	P2-2		P1-B		
7		ORN	P2-1		P1-A		
3		WHT	P2-4		P1-D		
			P2-5		P1-E		
			P2-6		P1-F		
			P2-7		P1-H		
			P2-8		P1-J		
			P2-9		P1-K		
3	22	WHT	P2-10		P1-L		
13	22 TWP	RED	P2-11		P1-M		
		WHT	P2-12		P1-N		
8	22 TWP	RED	P2-15		P1-S		
		BLK	P2-14	ITEM #4	P1-R	ITEM #5	

LEGEND

NUMBER	DIM "X"	DIM "Y" (PRECUT)
7015108-0-0	4 FEET 6 IN. ± 2 INCHES	4 FEET 7 INCH

NOTES:
1. INSTALL TIE WRAPS (ITEM #6) APPROX. EVERY 4 INCHES.



1	WIRE, 22 AWG STRD TWP RED/WHT	9107420-29	13
1	PWR HARNESS DECALS	7409872-1-0	12
1	PWR HARNESS DECALS	7409872-2-0	11
1	LABEL, CABLE I.D.	9009532	10
1	LABEL	3611567-0-0	9
A/R	WIRE, 22 AWG STRD TWP RED/BLK	9107420-02	8
A/R	WIRE, 22 AWG STRD ORN	9107350-33	7
17	TIE WRAP	9007031	6
15	SOCKET, CRIMP	12100089-04	5
15	PIN 18 - 24 AWG	1212169-03	4
A/R	WIRE, 22 AWG STRD WHT	9107350-99	3
1	CONN HSG 44 PIN	1210918-15	2
1	CONN HSG, 15 PIN	12-12168-06	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

SURFACE QUALITY IN MICROINCHES	CLASS OF ACCURACY (CHECK ONE)	ANGLES ±0° 30'	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
	MEDIUM ☐		±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐		±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

7015108-0-0

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PART LIST

FINISH NONE

DRN. B.E. Olson 22 SEPT 77
CHK'D J. Hudson 30 SEPT 77
ENG. T. Reed 13 OCT 77
PROJ. ENG. T. Reed 13 OCT 77
PROD. [signature] 4-18-78

NEXT HIGHER ASSY. D-UA-KS10-PA-0

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON KS10

digital

TITLE CABLE, CONSOLE PANEL

SIZE	CODE	NUMBER	REV
D	1A	7015108-0-0	

DIST.

REVISIONS	REV.	CHANGE NO.	CHK

MASTERPAGE P-1499

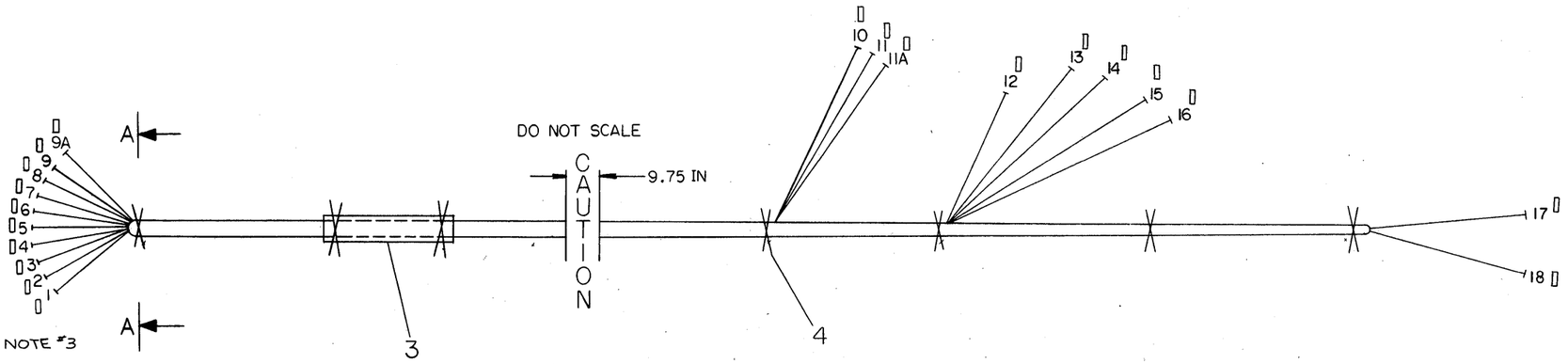
DEC FORM NO. ORD 100-C

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WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM POINT	CONN	WITH	TO POINT	CONN	WITH	REMARKS
1	24	WHT	1	P2 - 8	ITEM 2	11		ITEM 2 ↑ 7	C18J1
↑	↑	↑	2	- 6	↑	12		↑	D18E1
			3	- 10		13			D18P1
			4	- 4		14			D18M1
			5	- 12		15			D18S1
			6	- 2		16			D18R1
			7	- 18		17			F18S1
			8	- 20		18			F18R1
↓	↓	↓	9	↓ - 16	↓	10		↓	C18F1
1	24	WHT	9A	P2 - 14	ITEM 2	11A		ITEM 2 ↑ 7	C18U2

NOTES:
1. LABEL TERMINATION POINTS USING BRADY MARKERS.
2. USE TIE WRAPS (ITEM # 4) APPROX. EVERY 3 INCHES & AT EVERY BREAKOUT POINT.
3. TRIM LABEL ITEM #6 AS NECESSARY TO FIT.



SKT INSERTION SIDE

VIEW "A-A"

DO NOT REDUCE

SCALE

0 IN — 6 IN — 12 IN

FOR MANUFACTURING PURPOSES ONLY

	1	DECAL	A-DC-7409872-1-0	8
	9	SLEEVING, SHRINK, WHT	9107714-09	7
	1	LABEL, THIS SIDE UP	3611567-0	6
	1	TERMINATION HOUSING	1210918-25	5
X	11	TIE WRAPS	9007031	4
	1	LABEL, CABLE IDENT.	9009532	3
☐	18	SOCKET, CRIMP	1210089-04	2
	A/R	24 AWG SOLID (WHT)	9107688-99	1
SYMBOL	QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN ✓ MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN.	M Parker	3 Nov 77
CHK'D	J. Husco	9 Apr 78
ENG.	F. Dall	12 Apr 78
PROJ. ENG.	F. Dall	12 Apr 78
PROD.	[illegible]	4-10-78

NEXT HIGHER ASSY.: D-UA-KSIØ-PA-Ø

SCALE: 1/1

SHEET 1 OF 1

FIRST USED ON: KSIØ

digital

TITLE: HARNESS, BACKPLANE SIGNAL

SIZE D | CODE IA | NUMBER 7015269-0-0 | REV.

DIST.

REVISIONS	REV.	CHANGE NO.	CHK

MASTERSPACE P-1659

DEC FORM NO. DRD 100-C

SIZE D | CODE IA | NUMBER 7015269-0-0 | REV.

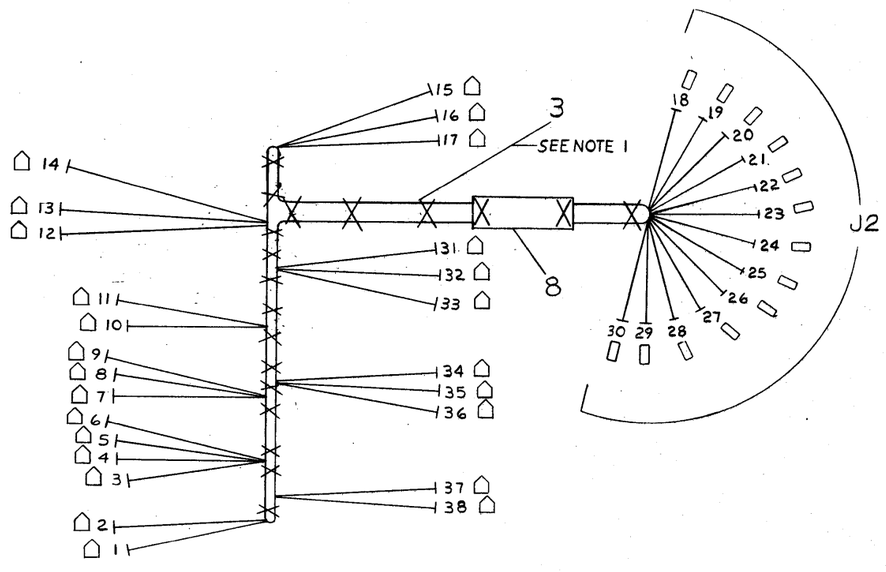
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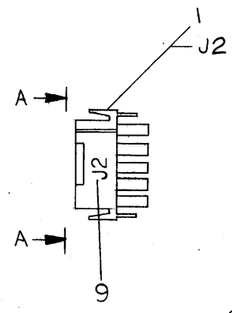
WIRE TABLE

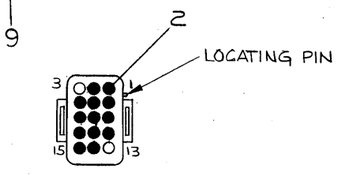
ITEM	DESCRIPTION		FROM			TO		
NO	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH
4	22	BLK	5	———	SOLDER	31	———	SOLDER
4		BLK	4	———		18	J2-14	ITEM #2
7		WHT	6	———		19	J2-5	ITEM #2
7		WHT	3	———		7	———	SOLDER
7		WHT	9	———		20	J2-4	ITEM #2
7		WHT	8	———		1	———	SOLDER
7		WHT	11	———		21	J2-10	ITEM #2
5		RED	10	———		22	J2-11	ITEM #2
6		ORN	33	———		23	J2-1	ITEM #2
7		WHT	15	———		24	J2-2	ITEM #2
5		RED	16	———		25	J2-15	ITEM #2
5		RED	17	———	SOLDER	36	———	SOLDER
7		WHT	26	J2-6	ITEM #2	2	———	SOLDER
7		WHT	27	J2-8	ITEM #2	34	———	SOLDER
7		WHT	28	J2-9	ITEM #2	37	———	SOLDER
5	22	RED	35	———	SOLDER	38	———	SOLDER

ITEM	DESCRIPTION		FROM			TO		
NO	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH
4	22	BLK	32	———	SOLDER	14	———	SOLDER
7	22	WHT	29	J2-7	ITEM 2	13	———	SOLDER
7	22	WHT	30	J2-12	ITEM 2	12	———	SOLDER

NOTES:
1. USE TIE WRAPS (ITEM # 3) APPROX. EVERY 1 1/2 INCH WHEN NECESSARY & AT EVERY BREAKOUT POINT.
2. ALL POINT CALLOUTS TO BE LABELED WITH COMPONENT IDENTIFIERS USING BRADY MARKERS.







VIEW "A-A"
PIN INSERTION SIDE
SCALE: 1/1

DO NOT REDUCE

0 IN — 6 IN — 12 IN

FOR MANUFACTURING PURPOSES ONLY

	1	POWER HARNESS DECALS	7409872-2-0	9
	1	LABEL, CABLE I.D.	9009532-0	8
	AR	22 AWG STRANDED WHT	9107350-99	7
	AR	22 AWG STRANDED ORN	9107350-33	6
	AR	22 AWG STRANDED RED	9107350-22	5
	AR	22 AWG STRANDED BLK	9107350-00	4
X	19	CABLE TIES	9007032	3
□	13	SOCKET	1212170-03	2
	1	HOUSING, PLUG	1212167-05	1
		DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM □	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED □	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. [illegible] 3 OCT 77
CHK'D [illegible] 3 OCT 77
ENG. [illegible] 12 APR 78
PROJ. ENG. [illegible] 12 APR 78
PROD. [illegible] 9 APR 78

NEXT HIGHER ASSY. D-IA-7014482-0-0

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON KS10

digital

TITLE
HARNESS, SWITCH PANEL

SIZE D | CODE IA | NUMBER 7015159-0-0 | REV.

DIST.

REVISIONS	CHANGE NO.	CHK	REV.

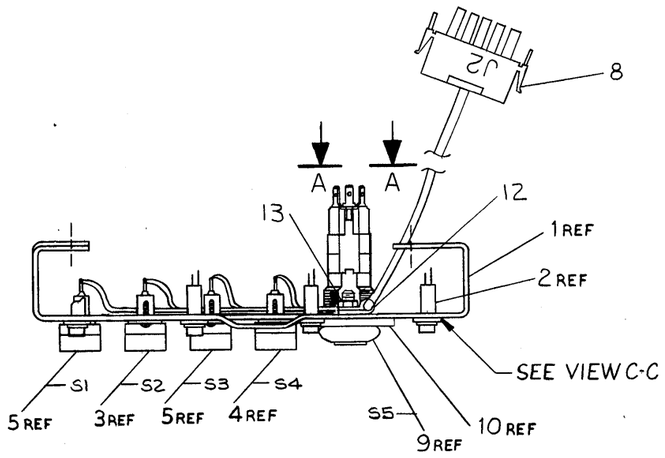
MARSPACE P-1838

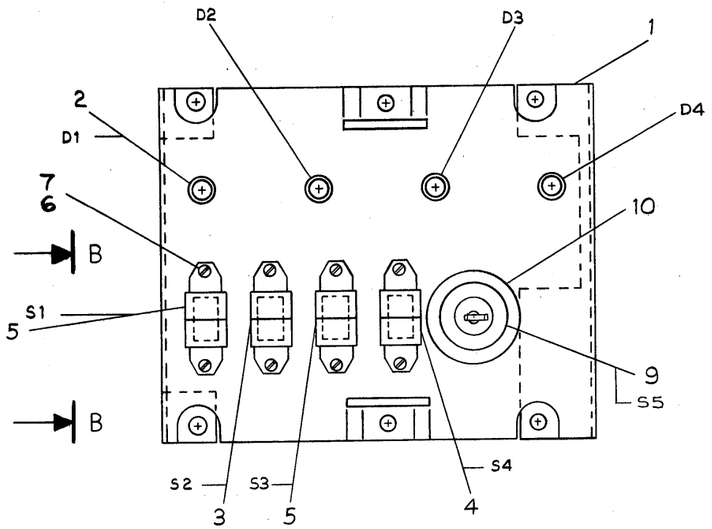
DEC FORM NO. ORD 100-C

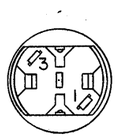
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WIRE TABLE

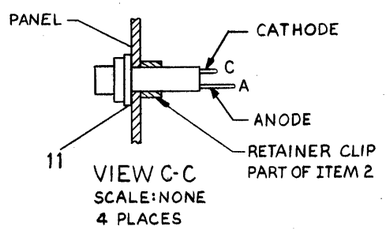
ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	POINT	CONNECTION	WITH	REMARKS
8	18	BLK	5	S2-2	SOLDER	
		BLK	4			
		WHT	6	S2-1		
		WHT	3	S2-3		
		WHT	9	S3-1		
		WHT	8	S3-2		
		WHT	7			
		WHT	11	S4-1		
		RED	10	S4-2		
		ORN	33	D3-A		
		BLK	31	D3-C		
		BLK	32			
		RED	16	D4-A		
		RED	17			
		RED	35	D2-A		
		RED	36			
		WHT	34	D2-C		
		RED	38	D1-A		
		WHT	37	D1-C		
		WHT	2	S1-1		
		WHT	1	S1-2		
		WHT	15	D4-C		
		BLK	14	S5-C		
		WHT	12	S5-3		
	18	WHT	13	S5-1	SOLDER	



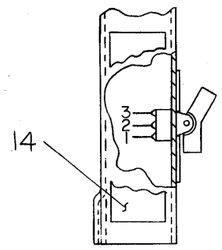




VIEW A-A
SCALE: 2/1



VIEW C-C
SCALE: NONE
4 PLACES



VIEW B-B
SCALE: 1/1
4 PLACES

1	INSPECTION LABEL	9009255-0-0	14
1	NUT, HEX #10-32	9009005-00	13
1	CABLE CLAMP	9007081-00	12
4	WASHER, FIBER	9008082-00	11
1	WASHER, FLAT	9010010-00	10
1	SWITCH, KEYLOCK, SP3T	1213881-0-0	9
1	HARNESS, SWITCH PANEL	D-IA-7015159-0-0	8
8	WASHER, INT TOOTH LOCK #4	9006632	7
8	SCR, RD HD SLOT 4-40X.25	9006397-5	6
2	SW, TOG SPDT (WHT) MOM.	1210890-01	5
1	SW, TOG SPDT (RED)	1210891-01	4
1	SW, TOG SPDT (WHT)	1210891-02	3
4	LIGHT L.E.D. (RED LENS)	1212749-0-0	2
1	SWITCH PANEL BRACKET	D-MD-7419501-0-0	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

SURFACE QUALITY IN MICROINCHES	CLASS OF ACCURACY (CHECK ONE)	ANGLES ±0° 30'	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
	MEDIUM ☐		±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐		±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: NONE

DRN. A. Woods	28-NOV-77	FIRST USED ON: KSIØ
CHK'D J. Hixson	11 APR 78	digital
ENG. J. Dell	12 APR 78	
PROJ. ENG. J. Dell	12 APR 78	TITLE: SWITCH PANEL BRACKET ASSY
PROD. [illegible]	4-18-78	
NEXT HIGHER ASSY.		
D-UA-KSIØ-Ø-Ø		SIZE D / CODE IA / NUMBER 7014482-0-0 / REV.
SCALE 1/1		
SHEET 1 OF 2		DIST.

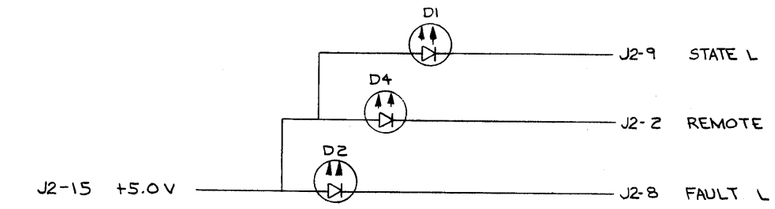
REVISIONS | REV. | CHANGE NO. | CHK

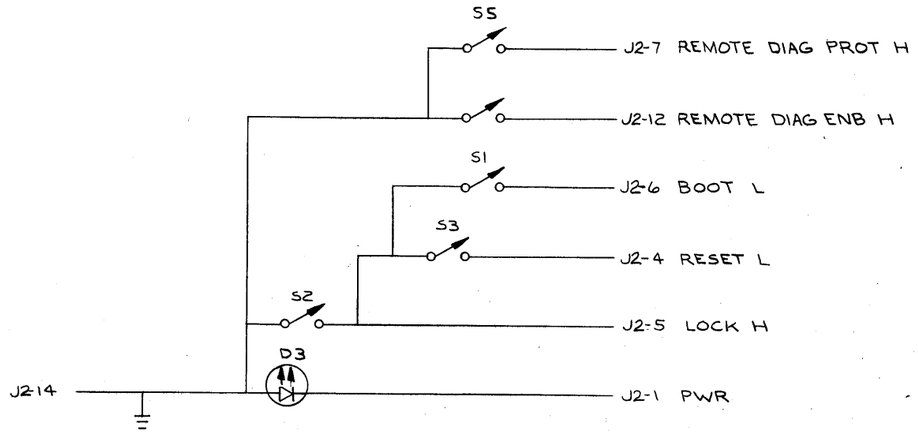
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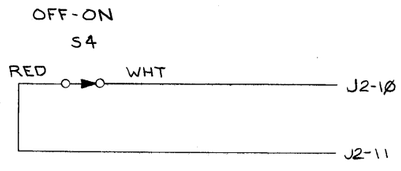
DEC FORM NO. DRD 100-C

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KEY SWITCH CONN. TABLE		
S5 POSITIONS	PROTECT H	ENABLE H
DISABLE	OFF	ON
PROTECT	OFF	OFF
ENABLE	ON	OFF







REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SWITCH PANEL BRACKET ASSY	D	IA	7014482-0-0	
SCALE 1/1 SHEET 2 OF 2	DIST.			

SIZE D CODE IA NUMBER 7014482-0-0 REV.

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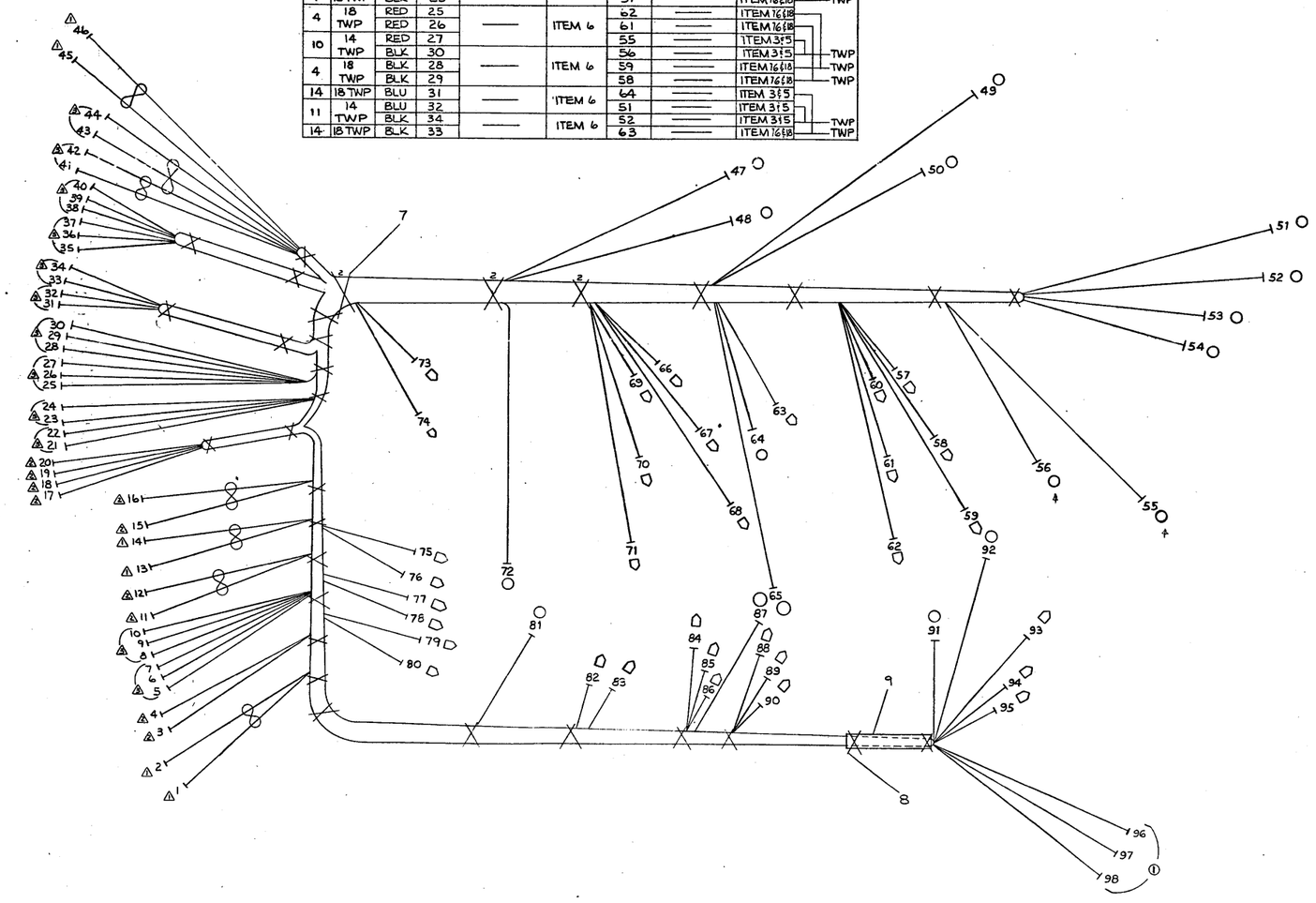
WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	REMARKS
10	14 TWP	RED	1	——	ITEM 2	91	——	ITEM 3&5	
		BLK	2	——	ITEM 2	92	——	ITEM 3&5	
12	18 TWP	ORN	3	——	ITEM 1	53	——	ITEM 16&18	
		BLK	4	——	ITEM 1	52			
12	18 TWP	ORN	5	——	ITEM 6	58	——		TWP
		ORN	6			59			TWP
		ORN	7			90			TWP
		BLK	8			54			
		BLK	9			55			
		BLK	10			56			
4	18 TWP	BLK	11	——	ITEM 1	50	——	ITEM 16&18	
		RED	12	——	ITEM 1	70	——	ITEM 16&18	
10	14 TWP	RED	13	——	ITEM 2	81	——	ITEM 3&5	
		BLK	14	——	ITEM 2	87	——	ITEM 3&5	
13	18 TWP	GRN	15	——	ITEM 1	77	——	ITEM 16&18	
		BLK	16	——		78	——		
13	18 TWP	GRN	17	——		75	——		
		BLK	18	——		76	——		
4	18 TWP	RED	19	——		74	——		
		BLK	20	——	ITEM 1	73	——	ITEM 16&18	
4	18 TWP	RED	21	——		60	——	ITEM 16&18	
10	14 TWP	RED	22	——	ITEM 6	72	——	ITEM 3&5	TWP
		BLK	24	——		65	——	ITEM 3&5	TWP
4	18 TWP	BLK	23	——	ITEM 6	57	——	ITEM 16&18	TWP
4	18 TWP	RED	25	——		62	——	ITEM 16&18	
		RED	26	——	ITEM 6	61	——	ITEM 16&18	
10	14 TWP	RED	27	——		55	——	ITEM 3&5	
		BLK	30	——		56	——	ITEM 3&5	TWP
4	18 TWP	BLK	28	——	ITEM 6	59	——	ITEM 16&18	TWP
		BLK	29	——		58	——	ITEM 16&18	TWP
14	18 TWP	BLU	31	——	ITEM 6	64	——	ITEM 3&5	
11	14 TWP	BLU	32	——		51	——	ITEM 3&5	
		BLK	34	——	ITEM 6	52	——	ITEM 3&5	TWP
14	18 TWP	BLK	33	——		63	——	ITEM 16&18	TWP

WIRE TABLE CONT.

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	REMARKS
4	18 TWP	RED	36	——	ITEM 6	69	——	ITEM 16&18	
		RED	37			70		ITEM 16&18	
10	14 TWP	RED	35	——		47	——	ITEM 3&5	
		BLK	38			50		ITEM 3&5	TWP
4	18 TWP	BLK	39	——	ITEM 6	66	——	ITEM 16&18	TWP
		BLK	40			67		ITEM 16&18	TWP
4	18 TWP	RED	41	——	ITEM 6	71	——	ITEM 16&18	
10	14 TWP	RED	42	——		53	——	ITEM 3&5	
		BLK	43	——	ITEM 6	54	——	ITEM 3&5	TWP
4	18 TWP	BLK	44	——		68	——	ITEM 16&18	TWP
10	14 TWP	RED	45	——	ITEM 2	48	——	ITEM 3&5	
		BLK	46	——	ITEM 2	49	——	ITEM 3&5	
15	18	GRN/YEL	93	——	ITEM 16&18	96	——	ITEM 17	
15	18	GRN/YEL	94	——	ITEM 16&18	97	——		
15	18	GRN/YEL	95	——	ITEM 16&18	98	——		

NOTES:
1. USE TIE WRAPS (ITEM 7 AND 8), APPROX EVERY 2 INCHES AND AT EVERY BREAKOUT POINT.
2. ALL POINT CALLOUTS TO BE LABELED WITH COMPONENT IDENTIFIERS USING BRADY MARKERS.



	32	TUBING, SHRINK, WHT	9107714-09	18
ⓘ	1	TERMINAL, RING (YEL)	9007926-01	17
⌂	32	TERMINAL, BERG	9009139-00	16
	AR	18 AWG STRD GRN/YEL	9107410-54	15
	AR	18 AWG TWP BLK/BLU	9107430-06	14
	AR	18 AWG TWP BLK/GRN	9107430-05	13
	AR	18 AWG TWP BLK/ORN	9107430-03	12
	AR	14 AWG TWP BLK/BLU	9107440-06	11
	AR	14 AWG TWP BLK/RED	9107440-02	10
	1	LABEL, CABLE ID	9009532	9
X	28	CABLE TIE	9007031	8
X	3	CABLE TIE	9007032	7
△	12	TERMINAL SPRING LUG (YEL)	12150S1-02	6
	17	TUBING, SHRINK, RED	9107305-02	5
	AR	18 AWG TWP BLK/RED	9107430-02	4
○	17	TERMINAL, QUICK CONN	9009262-00	3
△	6	TERMINAL, SPRING LUG (BLU)	12150S1-01	2
△	10	TERMINAL SPRING LUG (RED)	12150S1-00	1

DESCRIPTION — DWG./PART NO. — ITEM NO.

7015317-0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

	CLASS OF DECIMAL	NOMINAL DIMENSION RANGE INCHES				
		OVER 0 TO 4	OVER 4 TO 12	OVER 12 TO 40	OVER 40 TO 80	OVER 80 TO 120
ANGLES ±0° 30'						
SURFACE QUALITY IN MICROINCHES	MEDIUM (CHECK ONE)	±.004	±.008	±.012	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.063

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN.	Hernandez	11/17
CHK'D.	L. Yon	11/17
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.	E-UA-KS1Ø-PA	
SCALE	1/1	
SHEET	1 OF 1	

FIRST USED ON KS1Ø digital

TITLE
HARNESS, CARD CAGE POWER

SIZE E | CODE 1A | NUMBER 7015317-0-0 | REV.

DIST.

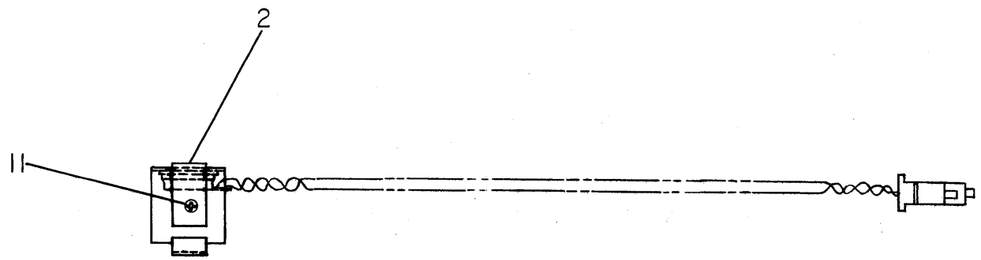
REVISIONS

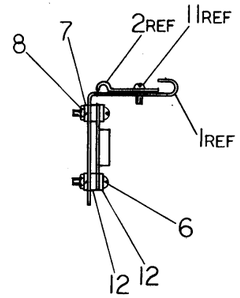
REV.	CHANGE NO.	CHK.

SEC REPR NO. DRE 100 B

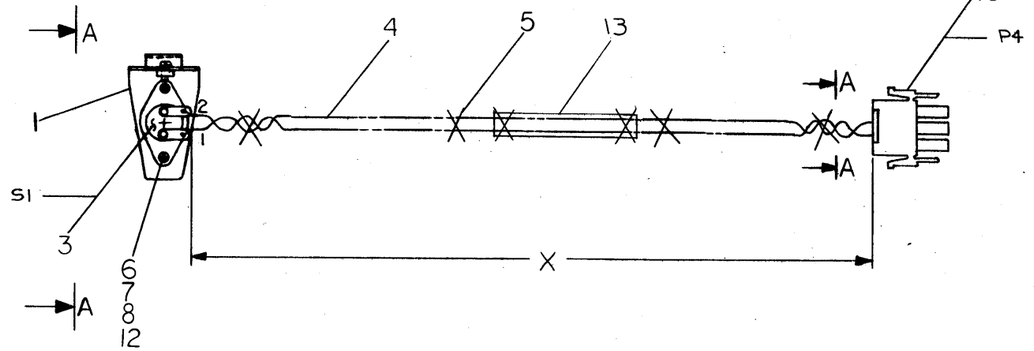
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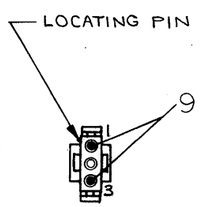
VARIATION	ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	REMARKS	DIM. "X"
7015067-0	4	22 TWP	WHT	P4-1	ITEM 9	S1-1	SOLDER	—	13.0 ±.5 IN.
			RED	P4-3	ITEM 9	S1-2	SOLDER	—	





VIEW "A-A"
SCALE: NONE





VIEWA-A
PIN INSERTION SIDE

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	LABEL, CABLE ID	9009532	13
4	WASHER, FLAT NYLON	9007261-00	12
1	SCR PAN HD PHL #6-32 X .31	9009701-00	11
1	CONN, HOUSING 3 PIN	1212167-00	10
2	PIN SOCKETS 22 AWG	1212170-03	9
2	NUT HEX #2-56	9006555	8
2	WASHER, HELICAL SPLIT LOCK #2	9006686	7
2	SCR PHL HD PAN # 2-56 X .44	9006004-01	6
6	TIE WRAPS SST 1M	9007031	5
A/R	WIRE #22 AWG STRD WHT/RED TWP	9107420-29	4
1	THERMOSTAT, SNAP ACTING	1210902-03	3
1	BRACKET HOLD DOWN	C-MD-7419814-0-0	2
1	SENSOR BRACKET	C-MD-7419815-0-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 1.2	OVER .12 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN ✓ MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. B.C.CASE 13SEPT77
CHK'D J. Hines 30Sept 77
ENG. F. Dell 12 Oct 77
PROJ. ENG. J. Dell 12 Oct 77
PROD. [illegible] 4-20-78
NEXT HIGHER ASSY.
E-UA-KS10-PA-0
SCALE NONE
SHEET 1 OF 1

FIRST USED ON KS10

digital

TITLE
SENSOR ASSY, HEAT

SIZE D | CODE AD | NUMBER 7015067-0-0 | REV.

DIST.

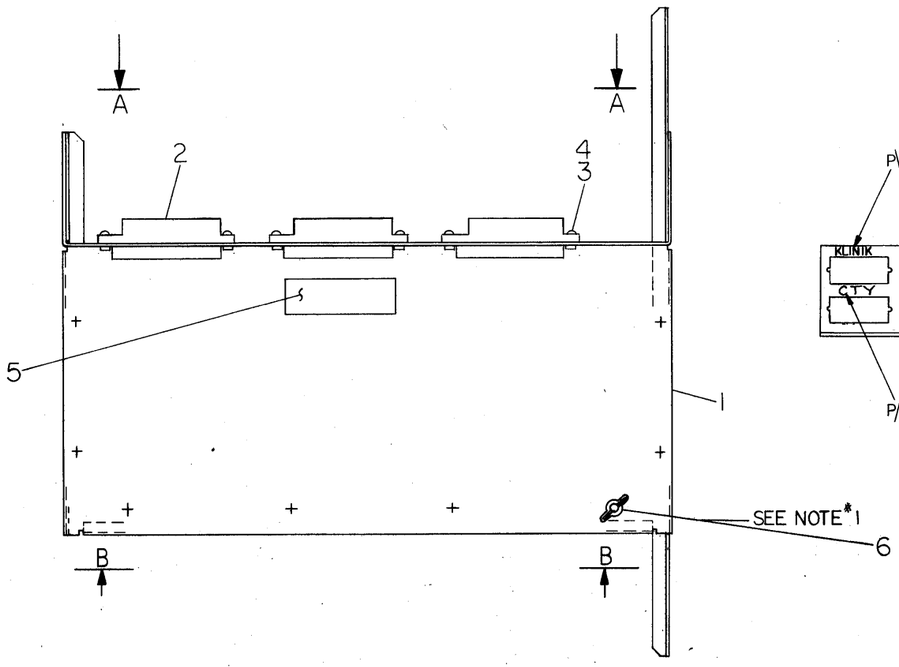
REVISIONS	CHANGE NO.	CHK

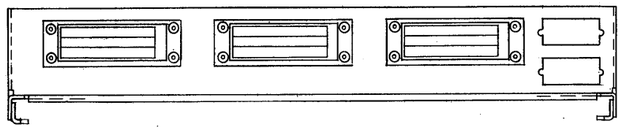
MAKEPEACE P-1898

DEC FORM NO. DRD 100-C

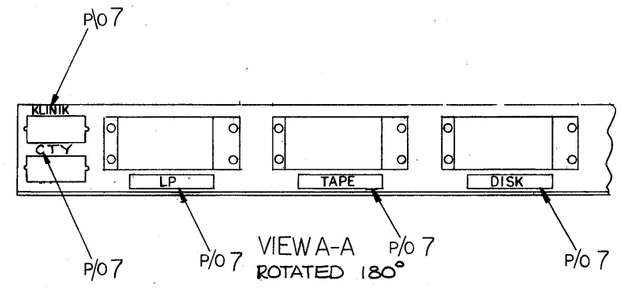
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NOTES:
1. INSTALL ITEM*6 AND CAPTIVATE BY DEFORMING LAST 4 THREADS OF STUD.





VIEW B-B



VIEW A-A
ROTATED 180°

1	LABEL, ADH. BACK KSIØ	3615379-0-0	7
8	NUT, WING 10-32	9006572	6
1	LABEL, INSPECTION	9009255	5
12	WASHER, SPLIT LOCK #4	9006688	4
12	SCREW, FIL. HD. SLOT #4-40X.38	9006390-06	3
3	RECEPTACLE, HOUSING	D-AD-7009861-0-0	2
1	TROUGH, MASSBUS CABLE	D-IA 7014478-0-0	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN M. Normand 10 Apr 78
CHK'D J. Rouso 10 Apr 78
ENG. F. Dal 20 Apr 78
PROJ. ENG. J. Rouso 24 Apr 78
PROD. D. Gilman 24 Apr 78

NEXT HIGHER ASSY. E-UA-KSIØ-Ø-Ø

SCALE 1/2

SHEET 1 OF 1

FIRST USED ON KSIØ

digital

TITLE ASSY, MASSBUS CABLE TROUGH

SIZE D | CODE AD | NUMBER 7014462-0-0 | REV.

DIST.

REVISIONS	REV.	CHANGE NO.	CHK

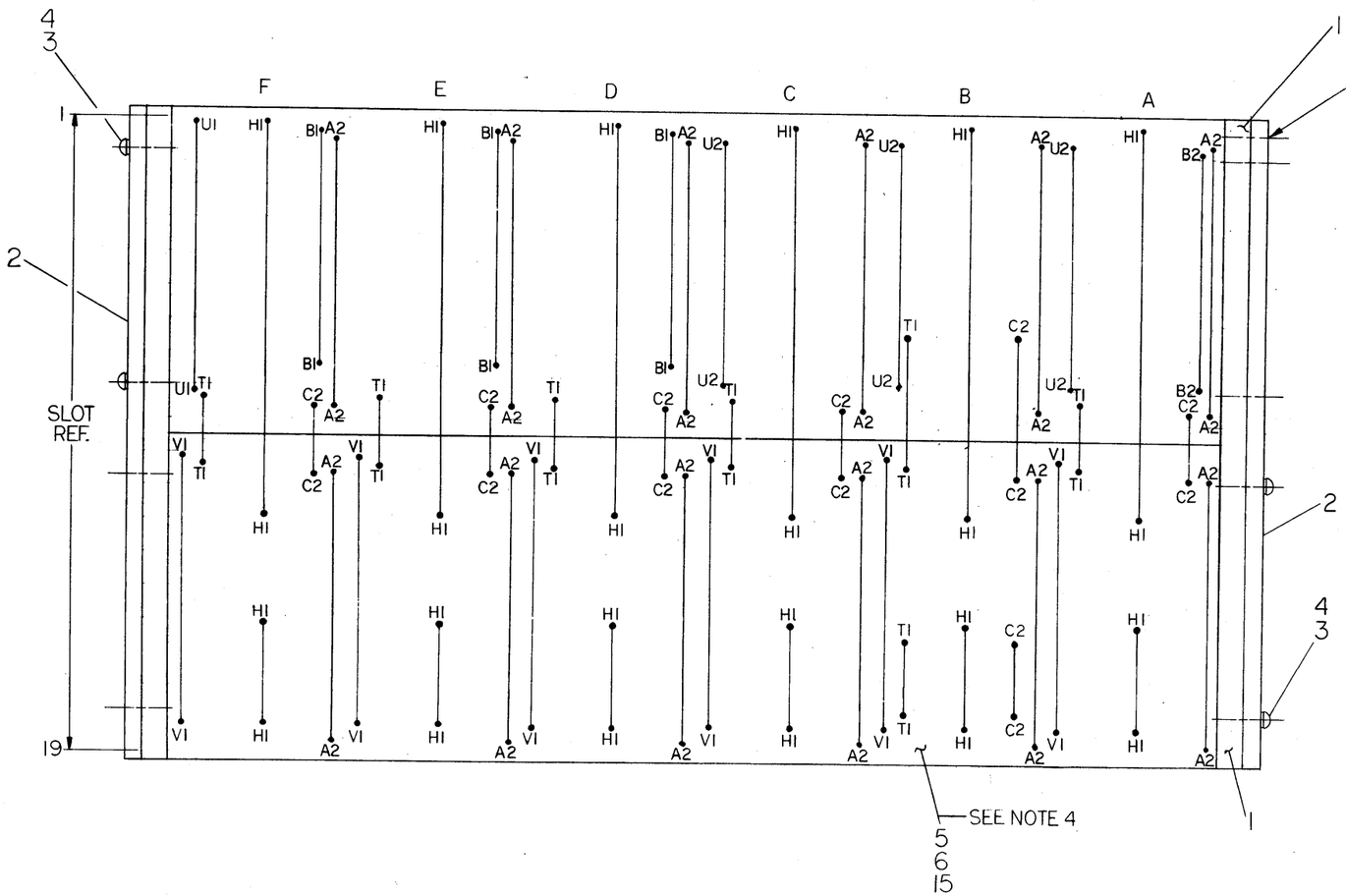
MAXIPAGE P-1493

DEC FORM NO. DRD 100-C

SIZE D | CODE AD | NUMBER 7014462-0-0 | REV.

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NOTES:
1. AT SLOT 9 CUT ETCH AT AGLO & DGLO. AT SLOTS 3 & 13 CUT ETCH AT AU2 & AV2
2. HOLLOW DRILL ALL PINS N1, P1, R1, AND S1 IN SLOTS A9 AND A19, AND PIN A18A2
3. FOR HAND WIRING SEE A-WL-7014486-0-2
4. ALL BUS STRIPS TO BE WITHIN .125 OF ETCH BOARD. SEE A-WL-7014486-0-3 FOR BUS STRIP LISTING.
5. FOR CLOCK COAX WIRING SEE A-WL-7014486-0-1 SEE DETAIL A ON SHEET 3.



1	DECAL, LOGIC ASSY REV	A-DC-7411881-00	15
REF	GENERAL WIRING SHEET	A-W-L-7014486-0-3	14
REF	GENERAL WIRING SHEET	A-W-L-7014486-0-2	13
A/R	CLOCK COAX	1700059	12
A/R	WIRE, 24 AWG SOLID (BLU)	9107688-0-6	11
A/R	WIRE, 24 AWG SOLID (GRN)	9107688-0-5	10
A/R	WIRE, 24 AWG SOLID (RED)	9107688-0-2	9
A/R	WIRE, 24 AWG SOLID (BLK)	9107688-0-0	8
REF	GENERAL WIRING SHEET	A-WL-7014486-0-1	7
A/R	BUS STRIP	9008428	6
A/R	WIRE, 24 AWG SOLID (WHT)	9107688-99	5
8	WASHERS, EXT. TOOTH # 8	9008072	4
8	SCR, FIL HD PHL # 8-32 X 50	9007641-06	3
2	BAR, BACKPLANE SUPPORT	B-MD-7419351-00	2
2	ASSY, BACKPLANE	D-IA-7015682-00	1

DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER .2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES ✓	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

7014486-0

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. J. Huson	21 Apr 77	
CHK'D J. Huson	21 Apr 78	
ENG. F. Dail	21 Apr 78	
PROJ. ENG. T. Dail	21 Apr 78	
PROD. W. Embry	21 Apr 78	
NEXT HIGHER ASSY.		
E-IA-KS7-IA-0		
SCALE 1/1		
SHEET 1 OF 2		

FIRST USED ON KS10 digital

TITLE
ASSY, BACKPLANE

SIZE	CODE	NUMBER	REV.
D	IA	7014486-0-0	
DIST.			

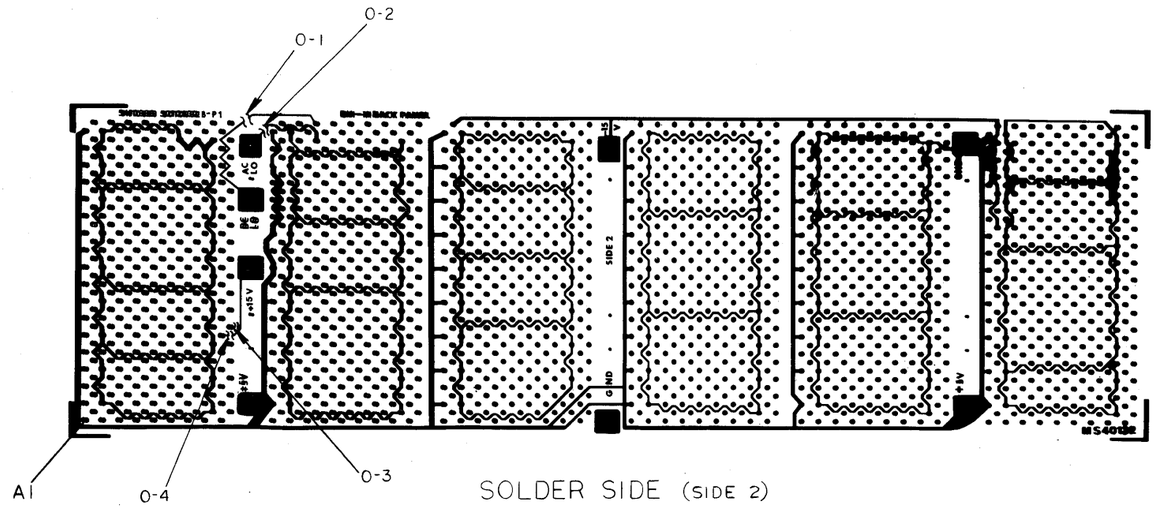
REVISIONS		
REV.	CHANGE NO.	CHK

MASTERPAGE P-1055

DEC FORM NO. DRD 100-C

SIZE	CODE	NUMBER	REV.
D	IA	7014486-0-0	

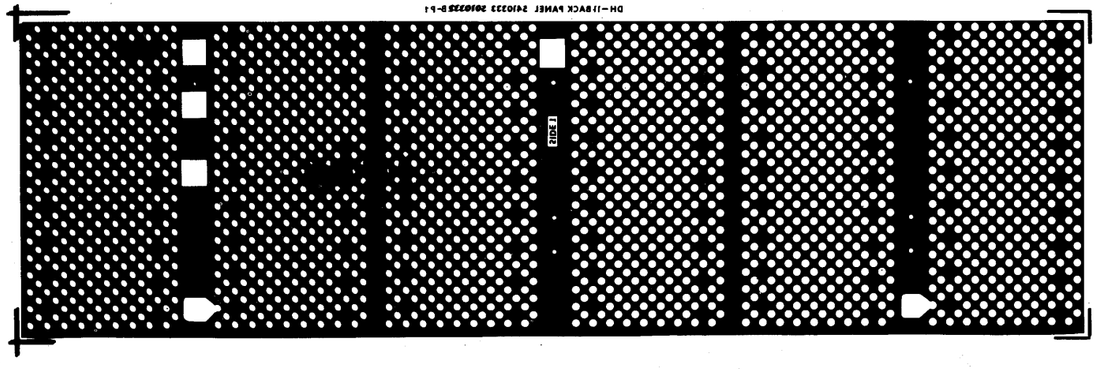
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SOLDER SIDE (SIDE 2)

ETCH CUT SIDE 2 (AS SHOWN)

0-1. CUT ETCH ON RUN FROM DC LO
0-2. CUT ETCH AT AC LO
0-3&4. CUT ETCH ON RUN FROM +15V



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
ASSY, BACKPLANE	D	IA	7014486-0-0	
SCALE NONE	SHEET 2 OF 2		DIST.	

DEC FORM NO DRD 137
MASTERPACE P-1555

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
CSL1 R CLK CSL H	A18C1	A17C2		SOURCE
	C18S1	C18T1		TERMINATION
CSL1 R CLK ADPT3 H	A18D1	A17C2		SOURCE
	C15S1	C15T1		TERMINATION
CSL1 R CLK MMC H	A18F1	A18E2		SOURCE
	CØ9S1	CØ9T1		TERMINATION
CSL1 R CLK DPM H	A18F2	A18E2		SOURCE
	C14U1	C14T1		TERMINATION
CSL1 R CLK ADPT2 H	B18C1	B17C2		SOURCE
	C16S1	C16T1		TERMINATION
CSL1 R CLK ADPT1 H	B18D1	B17C2		SOURCE
	C17S1	C17T1		TERMINATION
CSL1 R CLK ADPTØ H	B18E1	B17C2		SOURCE
	C19S1	C19T1		TERMINATION
-CSL1 T CLK ADPT1 H	A18H2	A18H1		SOURCE
	D17D1	D17C2		TERMINATION
-CSL1 T CLK MMC H	A18J1	A18H1		SOURCE
	DØ9D1	DØ9C2		TERMINATION
-CSL1 T CLK CSL H	A18J2	A18L1		SOURCE
	D18D1	D18C2		TERMINATION
-CSL1 T CLK ADPT2 H	A18L2	A18L1		SOURCE
	D16D1	D16C2		TERMINATION
-CSL1 T CLK ADPTØ H	A18M1	A18P2		SOURCE
	D19D1	D19C2		TERMINATION
-CSL1 T CLK DPE H	B18H2	B18H1		SOURCE
	C13T2	C13T1		TERMINATION

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. K.WALSH	DATE 1Ø-1-77	
CHK'D. J. HUSON	DATE 24 Apr 78	
ENG. F. Doll	DATE 25Apr78	
PROJ. ENG. T. Davidson	DATE 4/25/78	
PROD. W. Earley	DATE 25APR 78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 1 OF 2		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR
KS1Ø CLOCK COAX

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-Ø-1	

DIST.

DRA 104 DEC 16—(379)—1029—N970

MR

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
-CSL1 T CLK ADPT3 H	A18K2	A18L1		SOURCE
	D15D1	D15C2		TERMINATION
-CSL1 T CLK CRA H	B18J1	B18H1		SOURCE
	C12T2	C12T1		TERMINATION
-CSL1 T CLK CRM H	B18K1	B18H1		SOURCE
	C11T2	C11T1		TERMINATION
-CSL1 T CLK DPM H	B18L1	B19H1		SOURCE
	C14T2	C14T1		TERMINATION
CSL4 CRA R CLK H	C12D1	C12C2		SOURCE
	C18E1	C18C1		TERMINATION

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. K.WALSH	DATE 1Ø-Ø1-77	
CHK'D. J. HUSON	DATE 24Apr78	
ENG. F. Doll	DATE 25Apr78	
PROJ. ENG. T. Davidson	DATE 4/25/78	
PROD. W. Earley	DATE 25APR 78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 2 OF 2		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR
KS1Ø CLOCK COAX

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-Ø-1	

DIST.

DRA 104 DEC 16 (379) 1029 N970

MR

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	AØ2C2	AØ2H1	BLACK	
	AØ7C2	AØ7H1		
	AØ3H1	AØ3T1		
	AØ6H1	AØ6T1		
	A15C2	A15H1		
	A18C2	A18H1		
	A17H1	A17T1		
	BØ2C2	BØ2H1		
	BØ7C2	BØ7H1		
	BØ3H1	BØ3T1		
	BØ6H1	BØ6T1		
	B15C2	B15H1		
	B18C2	B18H1		
	B17H1	B17T1		
	CØ2C2	CØ2H1		
	CØ7C2	CØ7H1		
	CØ3H1	CØ3T1		
	CØ6H1	CØ6T1		
	C15C2	C15H1		
	C18C2	C18H1		
	C17H1	C17T1		
	DØ2C2	DØ2H1		
	DØ7C2	DØ7H1		
	DØ3H1	DØ3T1		
	DØ6H1	DØ6T1		
GND	D15C2	D15H1	BLACK	

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN.	J.HUSON	13OCT77
CHK'D.	J. HUSON	24APR78
ENG.	F. Doll	25APR78
PROJ. ENG.	T. Dundon	4/25/78
PROD.	W. Embry	25APR78
FIRST USED ON	KS1Ø	
SCALE	NONE	
SHEET	1 OF 4	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
POWER WIRING

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-0-2	

DIST.

DRA 104 DEC 16—(379)—1029—N970

MR

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	D18C2	D18H1	BLACK	
	D17H1	D17T1		
	EØ2C2	EØ2H1		
	EØ7C2	EØ7H1		
	EØ3H1	EØ3T1		
	EØ6H1	EØ6T1		
	E15C2	E15H1		
	E18C2	E18H1		
	E17H1	E17T1		
	FØ2C2	FØ2H1		
	FØ7C2	FØ7H1		
	FØ3H1	FØ3T1		
	FØ6H1	FØ6T1		
	F15C2	F15H1		
	F18C2	F18H1		
GND	F17H1	F17T1	BLACK	
+12V	AØ2U2	BØ2U2	WHITE	
	AØ6U2	BØ6U2		
	BØ3U2	CØ3U2		
	BØ7U2	CØ7U2		
	CØ2U2	DØ2B1		
	CØ6U2	DØ6B1		
	DØ3B1	EØ3B1		
	DØ7B1	EØ7B1		
	EØ2B1	FØ2B1		
+12V	EØ6B1	FØ6B1	WHITE	

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN.	J.HUSON	13OCT77
CHK'D.	J. HUSON	24APR78
ENG.	F. Doll	25APR78
PROJ. ENG.	T. Dundon	4/25/78
PROD.	W. Embry	25APR78
FIRST USED ON	KS1Ø	
SCALE	NONE	
SHEET	2 OF 4	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
POWER WIRING

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-0-2	

DIST.

DRA 104 DEC 16—(379)—1029—N970

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+12V	AØ8U2	A18B1	WHITE	
	A11A2	A11V1	RED	
	A19A2	A19V1		
	A12V1	B12A2		
	A17V1	B17A2		
	B11A2	B11V1		
	B18A2	B18V1		
	B12V1	C12A2		
	B17V1	C17A2		
	C11A2	C11V1		
	C18A2	C18V1		
	C12V1	D12A2		
	C17V1	D17A2		
	D11A2	D11V1		
	D18A2	D18V1		
	D12V1	E12A2		
	D17V1	E17A2		
	E11A2	E11V1		
	E18A2	E18V1		
	E12V1	F12A2		
	E17V1	F17A2		
	F11A2	F11V1		
	F18A2	F18V1		
	AØ2A2	AØ2V1		
	AØ8A2	AØ8V1		
+5V	AØ3V1	BØ3A2	RED	

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. J. HUSON	DATE 13OCT77	
CHK'D. J. HUSON	DATE 24APR78	
ENG. F. Dell	DATE 25APR78	
PROJ. ENG. T. Davidson	DATE 4/25/78	
PROD. W. Embry	DATE 25APR78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 3 OF 4		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
POWER WIRING

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-Ø-2	

DIST.

DRA 104 DEC 16 (379) 1029 N970

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+5V	AØ7V1	BØ7A2	RED	
	BØ2A2	BØ2V1		
	BØ8A2	BØ8V1		
	BØ3V1	CØ3A2		
	BØ7V1	CØ7A2		
	CØ2A2	CØ2V1		
	CØ8A2	CØ8V1		
	CØ3V1	DØ3A2		
	CØ7V1	DØ7A2		
	DØ2A2	DØ2V1		
	DØ8A2	DØ8V1		
	DØ3V1	EØ3A2		
	DØ7V1	EØ7A2		
	EØ2A2	EØ2V1		
	EØ8A2	EØ8V1		
	EØ3V1	FØ3A2		
	EØ7V1	FØ7A2		
	FØ2A2	FØ2V1		
	A18A2	A18K1		
	A18A2	AØ9A2		
+5V	FØ8A2	FØ8V1	RED	
-5V	AØ3B2	FØ3U1	GREEN	
-5V	AØ6B2	FØ6U1	GREEN	
-15V	A18B2	C19B2	BLUE	
-15V	F18U1	F19B2	BLUE	

REVISIONS

REV.	DATE	CHG. NO.	APP'D.

DRN. J. HUSON	DATE 13OCT77	
CHK'D. J. HUSON	DATE 24APR78	
ENG. F. Dell	DATE 25APR78	
PROJ. ENG. T. Davidson	DATE 4/25/78	
PROD. W. Embry	DATE 25APR78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 4 OF 4		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
POWER WIRING

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-Ø-2	

DIST.

DRA 104 DEC 16 (379) 1029 N970

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
GND	AØ1H1	A12H1		12 SLOT
	BØ1H1	B12H1		
	CØ1H1	C12H1		
	DØ1H1	D12H1		
	EØ1H1	E12H1		
	FØ1H1	F12H1		12 SLOT
	AØ9C2	A11C2		3 SLOT
	BØ6C2	B11C2		6 SLOT
	B16C2	B18C2		3 SLOT
	CØ9C2	C11C2		
	DØ9C2	D11C2		
	EØ9C2	E11C2		
	FØ9C2	F11C2		3 SLOT
	A15H1	A19H1		5 SLOT
	B15H1	B19H1		
	C15H1	C19H1		
	D15H1	D19H1		
	E15H1	E19H1		
	F15H1	F19H1		5 SLOT
	BØ6T1	B11T1		6 SLOT
	B16T1	B18T1		3 SLOT
	CØ9T1	C11T1		
	DØ9T1	D11T1		
	EØ9T1	E11T1		
	FØ9T1	F11T1		
GND	AØ9T1	A11T1		3 SLOT

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. J.HUSON	DATE 13OCT77	
CHK'D. J. HUSON	DATE 24APR78	
ENG.	DATE	
PROJ. ENG. T. Dundon	DATE 4/25/78	
PROD. W. Embley	DATE 25APR78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 1	OF 3	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
BUS STRIPS

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-0-3	

DIST.

DRA 104 DEC 16-(379)-1029-N970

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+5V	AØ1A2	AØ9A2		9 SLOT
	BØ1A2	BØ9A2		
	CØ1A2	CØ9A2		
	DØ1A2	DØ9A2		
	EØ1A2	EØ9A2		
	FØ1A2	FØ9A2		
	A11A2	A17A2		
	B11A2	B19A2		
	C11A2	C19A2		
	D11A2	D19A2		
	E11A2	E19A2		
	F11A2	F19A2		
	A11V1	A19V1		
	B11V1	B19V1		
	C11V1	C19V1		
	D11V1	D19V1		
	E11V1	E19V1		
	F11V1	F19V1		
	AØ1V1	AØ9V1		
	BØ1V1	BØ9V1		
	CØ1V1	CØ9V1		
	DØ1V1	DØ9V1		
	EØ1V1	EØ9V1		
+5V	FØ1V1	FØ9V1		9 SLOT
+12V	DØ1B1	DØ8B1		8 SLOT
+12V	EØ1B1	EØ8B1		8 SLOT

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. J.HUSON	DATE 13OCT77	
CHK'D. J. HUSON	DATE 24APR78	
ENG.	DATE 25APR78	
PROJ. ENG. T. Dundon	DATE 4/25/78	
PROD. W. Embley	DATE 25APR78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 2	OF 3	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
GENERAL WIRING SHEET
FOR KS1Ø
BUS STRIPS

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-0-3	

DIST.

DRA 104 DEC 16-(379)-1029-N970

MR

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
+12V	FØ1B1	FØ8B1		8 SLOT
+12V	AØ1U2	AØ8U2		8 SLOT
+12V	BØ1U2	BØ8U2		8 SLOT
+12V	CØ1U2	CØ8U2		8 SLOT
-5V	AØ1B2	AØ8B2		8 SLOT
-5V	FØ1U1	FØ8U1		8 SLOT

REVISIONS			
REV.	DATE	CHG. NO.	APP'D.

DRN. J.HUSON	DATE 13OCT77	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. J.Huson	DATE 24Apr78	
ENG. F.Dell	DATE 25Apr78	TITLE GENERAL WIRING SHEET
PROJ. ENG. T.Davidson	DATE 4/25/78	FOR KS1Ø BUS STRIPS
PROD. W.Bailey	DATE 05MAR78	
FIRST USED ON KS1Ø		
SCALE NONE		
SHEET 3 OF 3		

SIZE	CODE	NUMBER	REV.
A	WL	7Ø14486-0-3	

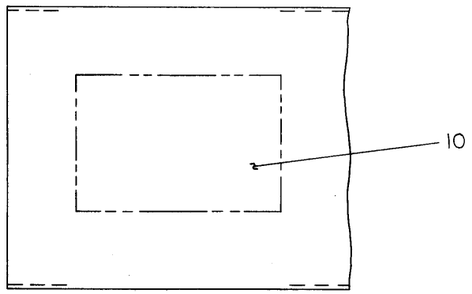
DIST.

DRA 104 DEC 16--(379)--1029--N970

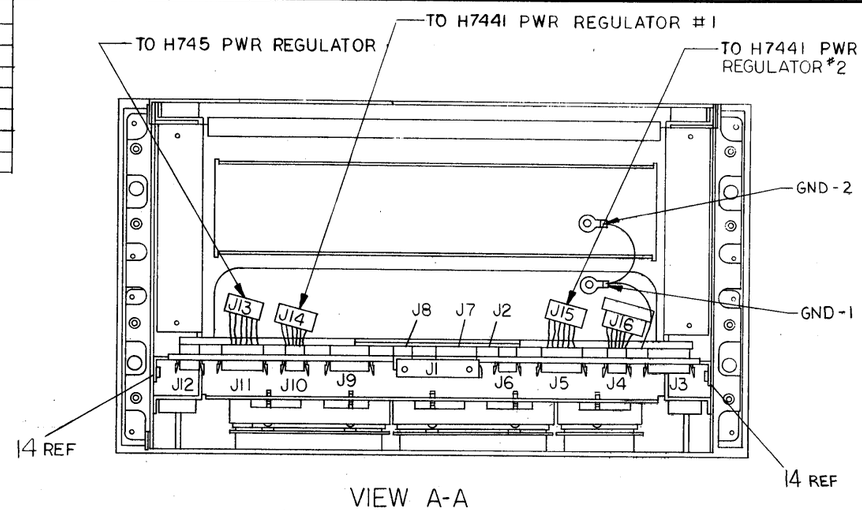
MR

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LEGEND	
NUMBER	VARIATION
7014173-0	120V (60 HZ)
7014173-1	240V (50 HZ)
7014173-2	120V (60 HZ)
7014173-3	240V (50 HZ)
7014173-4	120V (60 HZ)
7014173-5	240V (50 HZ)

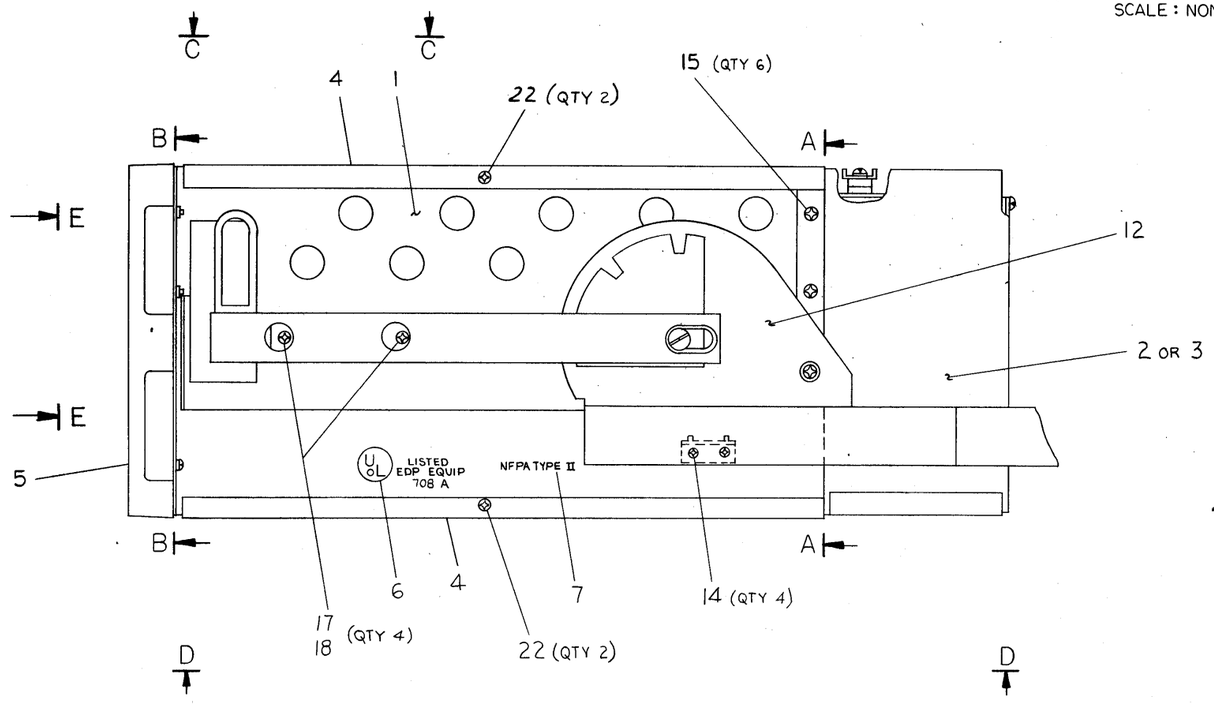


VIEW C-C
(TOP COVER ONLY)
SCALE : NONE



VIEW A-A
(REAR OF EXPANSION DRAWER)
SCALE : NONE

NOTES:



CAUTION :
OFF SHEETS PARTS LIST
EXIST A-PL-7014173-0-0

REVISIONS		
REV.	CHANGE NO.	CHK

MARKPACK P-1455

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PART LIST

FINISH

DRN. M Cyrkie	7 Apr 77	FIRST USED ON DN2Ø
CHK'D		
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.	B-DD-7014173-Ø	
SCALE 1/2		
SHEET 1 OF 2		

TITLE
EXPANSION DRAWER SUB-ASSY

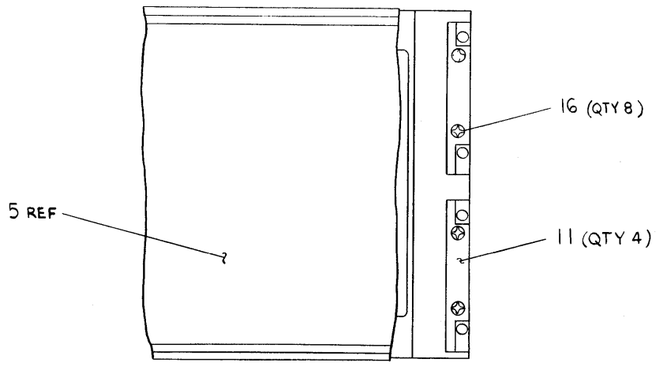
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D	AD	7014173-0-0	

DIST.

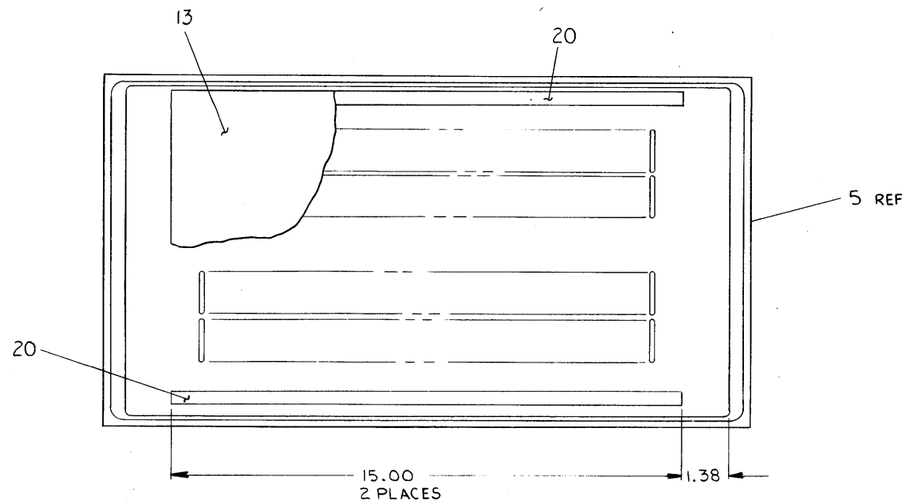
DEC FORM NO. DRD 100-C

SIZE D CODE AD NUMBER 7014173-0-0 REV.

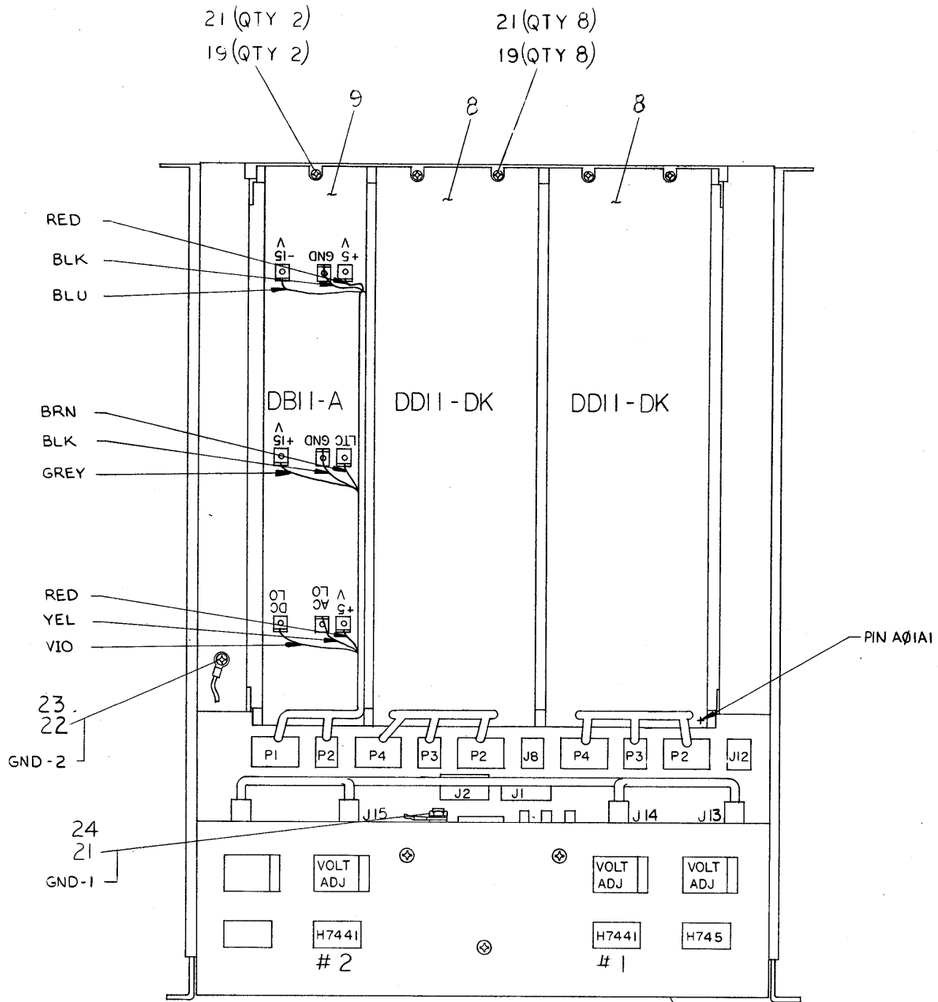
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VIEW "E"
(FRONT VIEW OF PANEL)



VIEW B-B
(REAR OF FRONT PANEL)
SCALE: 1/2



VIEW D-D
EXPANSION DRAWER
(BOTTOM VIEW)
PIN SIDE VIEW
(ROTATED 90° CLOCKWISE)

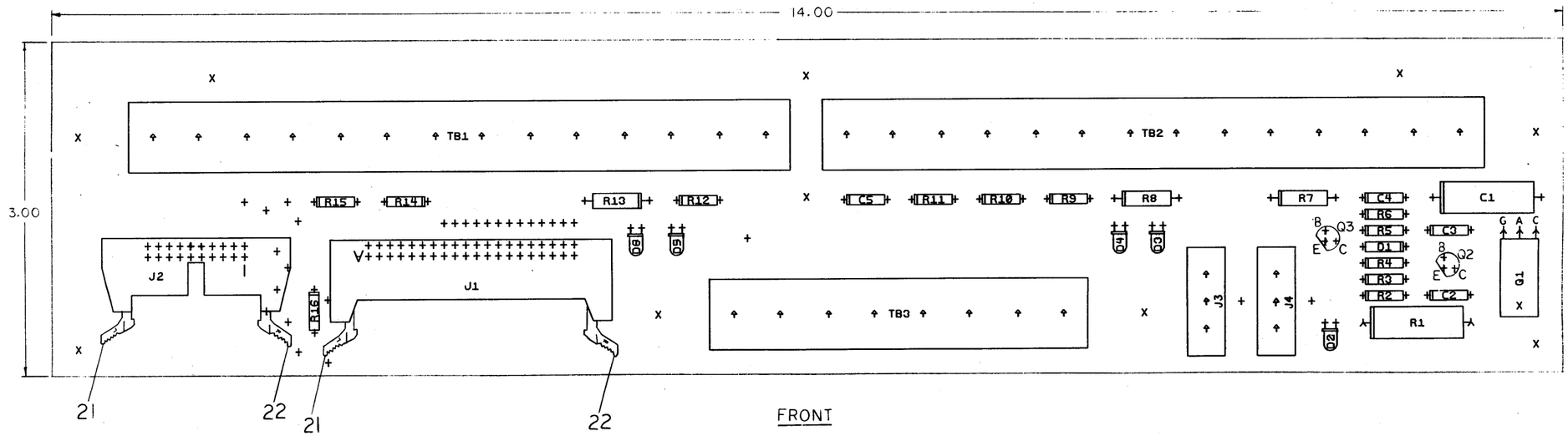
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV
EXPANSION DRAWER SUB-ASSY	D	AD	7014173-0-0	
SCALE 1/2 SHEET 2 OF 2	DIST.			

DEC FORM NO. DRD 137

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COMPONENT SIDE VIEW



NOTES:

CHK	CHANGE NO	REV

ETCH REV.	C
P.C. DESIGN DATA BASE REV.	C

SIGNATURES	DATE
DRN.	
CHK'D	
ENG.	
PROJ.ENG.	
PROD.	
SCALE 2/1	
SHT. 1 OF 3	
NEXT HIGHER ASSY. B-DD-5413261-0	

digital

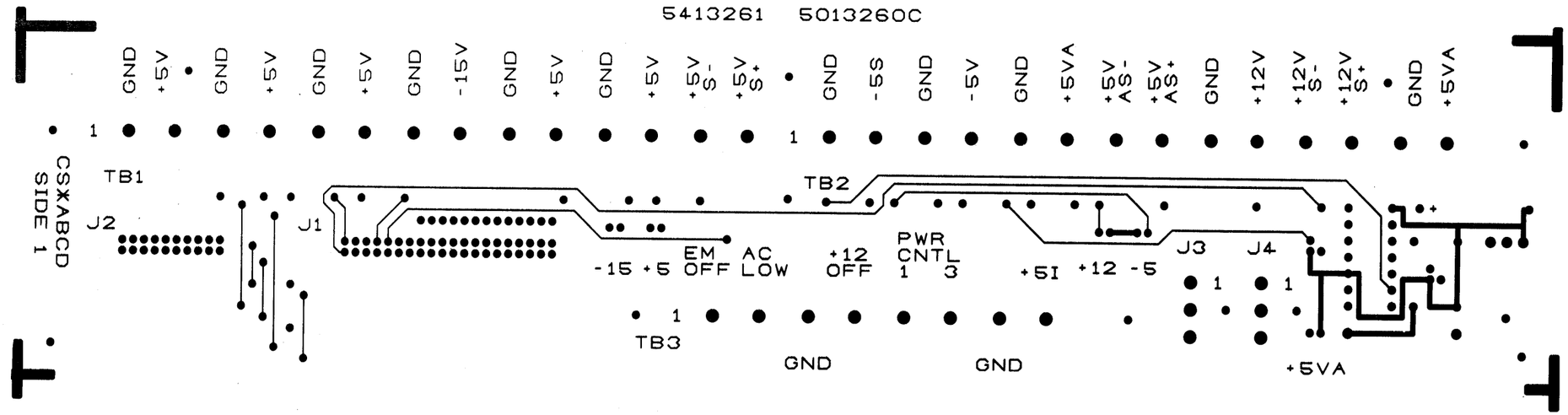
TITLE
KSIO POWER DISTRIBUTION

SIZE	CODE	NUMBER	REV
D	UA	5413261-0-0	A

1 MS# 19CC77

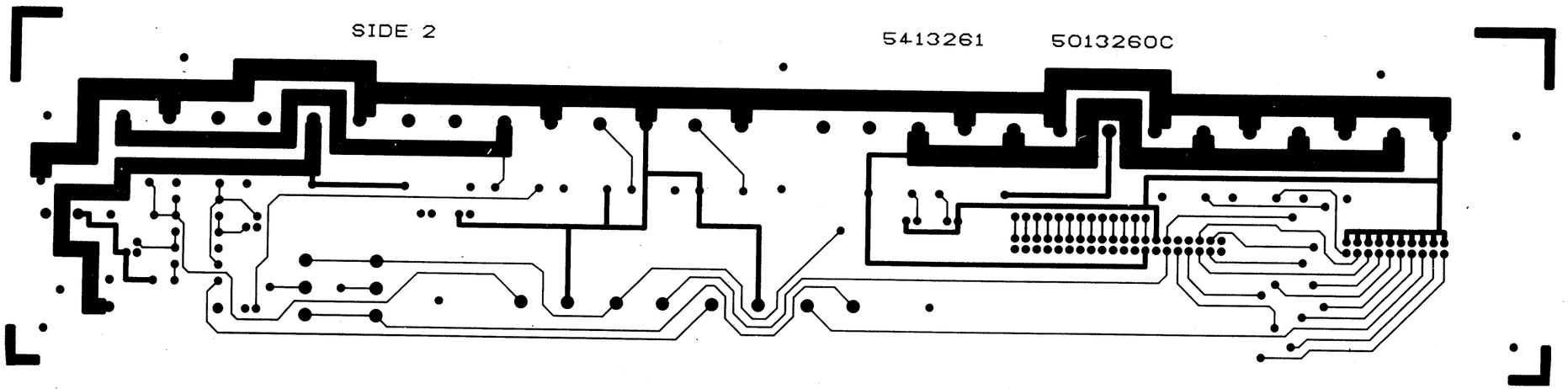
1978

5413261 5013260C



SIDE 2

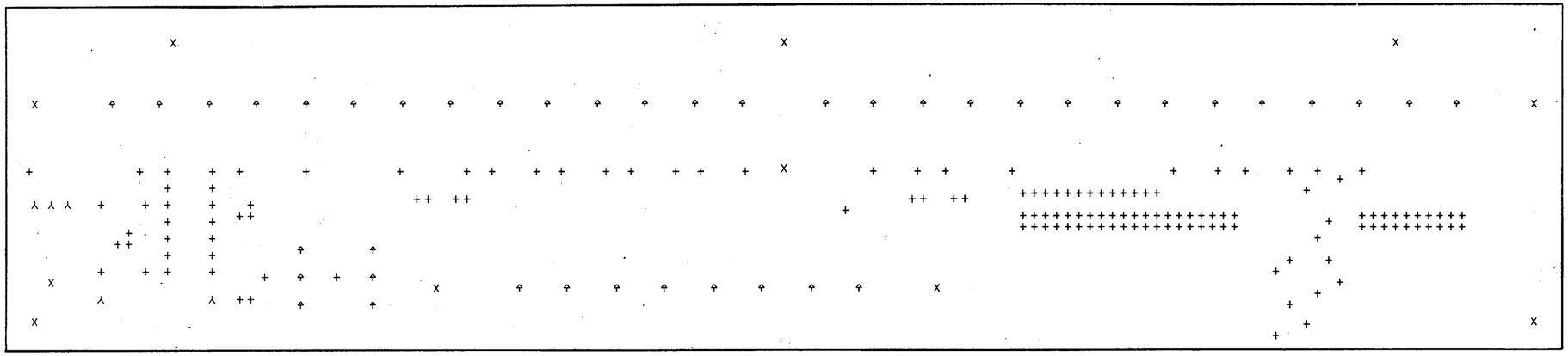
5413261 5013260C



TITLE	SIZE	CODE	NUMBER	REV.
KSIØ POWER DISTRIBUTION	D	UA	5413261-0-0	A
SCALE 2/1	SHEET 2 OF 3			

DUA 5413261-0-0 A

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REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KSIØ POWER DISTRIBUTION	D	UA	5413261-0-0	A
SCALE 2/1	SHEET 3 OF 3		DIST.	

SIZE	CODE	NUMBER	REV.
B	DD	M8616-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8616-Ø-Ø	9		KSlØ CONSOLE	A
K-PL-M8616-Ø-DBP	3		PARTS LIST (M8616)	A
D-CS-M8616-Ø-CSL1	1		CONSOLE & CONTROL, CLK,KSIØ ARB	A
D-CS-M8616-Ø-CSL2	1		CONSOLE & CONTROL, CONSOLE	A
			CONTROL	
D-CS-M8616-Ø-CSL3	1		CONSOLE & CONTROL ADDRESS DECODE	A
D-CS-M8616-Ø-CSL4	1		CONSOLE & CONTROL, CPU CONTROL	A
D-CS-M8616-Ø-CSL5	1		CONSOLE & CONTROL, CPU CLK	A
			CONTROL	
D-CS-M8616-Ø-CSL6	1		CONSOLE & CONTROL, DATA PATH 1	A
D-CS-M8616-Ø-CSL7	1		CONSOLE CONTROL, DATA PATH 2	A
D-CS-M8616-Ø-CSL8	1		CONSOLE CONTROL, DATA PATH 3	A
D-CS-M8616-Ø-CSL9	1		CONSOLE & CONTROL, KLINIK	A
D-CS-M8616-Ø-CSLA	1		CONSOLE & CONTROL, CPU CLK CONT	A
D-CS-M8616-Ø-CSLB	1		CONSOLE & CONTROL, MISC	A
D-CS-M8616-Ø-CSLC	1		CONSOLE & CONTROL, PWR,GND, CAPS	A
E-MD-5013192-0-0	7		DRILL, WIRE & COMP. SCREEN DRAW.	A
	-	5013192	MULTIWIRE BOARD	A
K-PC-M8616-Ø-DBC	-		MULTIWIRE DATA BASE	A
POO-M8616-ØØ	-		PROCESS SHEETS	REF

NOTES:

REVISIONS	
REV.	X
CHG NO.	ORIG
DATE	X

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USED ON OPTION/MODEL	
KSlØ	

DRN.	R W Counter	13 Apr 78
CHK'D	R W Counter	13 Apr 78
ENG.	J Gay FS	28 Apr 78
PROD.	W. Bishop	4-28-78

TITLE: KSlØ CONSOLE

SIZE	CODE	NUMBER	REV.
B	DD	M8616-Ø	A

SHEET 1 OF 2

DRB 126

SIZE	CODE	NUMBER	REV.
B	DD	M8616-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
		8616805-04	EPROM E8Ø5 } SEE NOTE #1	1
		8616807-04	EPROM E8Ø7	1
		8616808-04	EPROM E8Ø8	1
		8616810-04	EPROM E81Ø	1

NOTES:

1. ALL EPROMS FOR REVISION "A" MODULES WILL BE SUPPLIED BY ENGINEERING.

REVISIONS	REV.	CHG NO.	DATE
ORIG	X		X

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digital

USED ON OPTION/MODEL			
KS1Ø			

DRN.	R.W. Caunter	13 Apr 78
CHK'D	R.W. Caunter	13 Apr 78
ENG.	[illegible]	28 Apr 78
PROD	W. Bishop	4-28-78

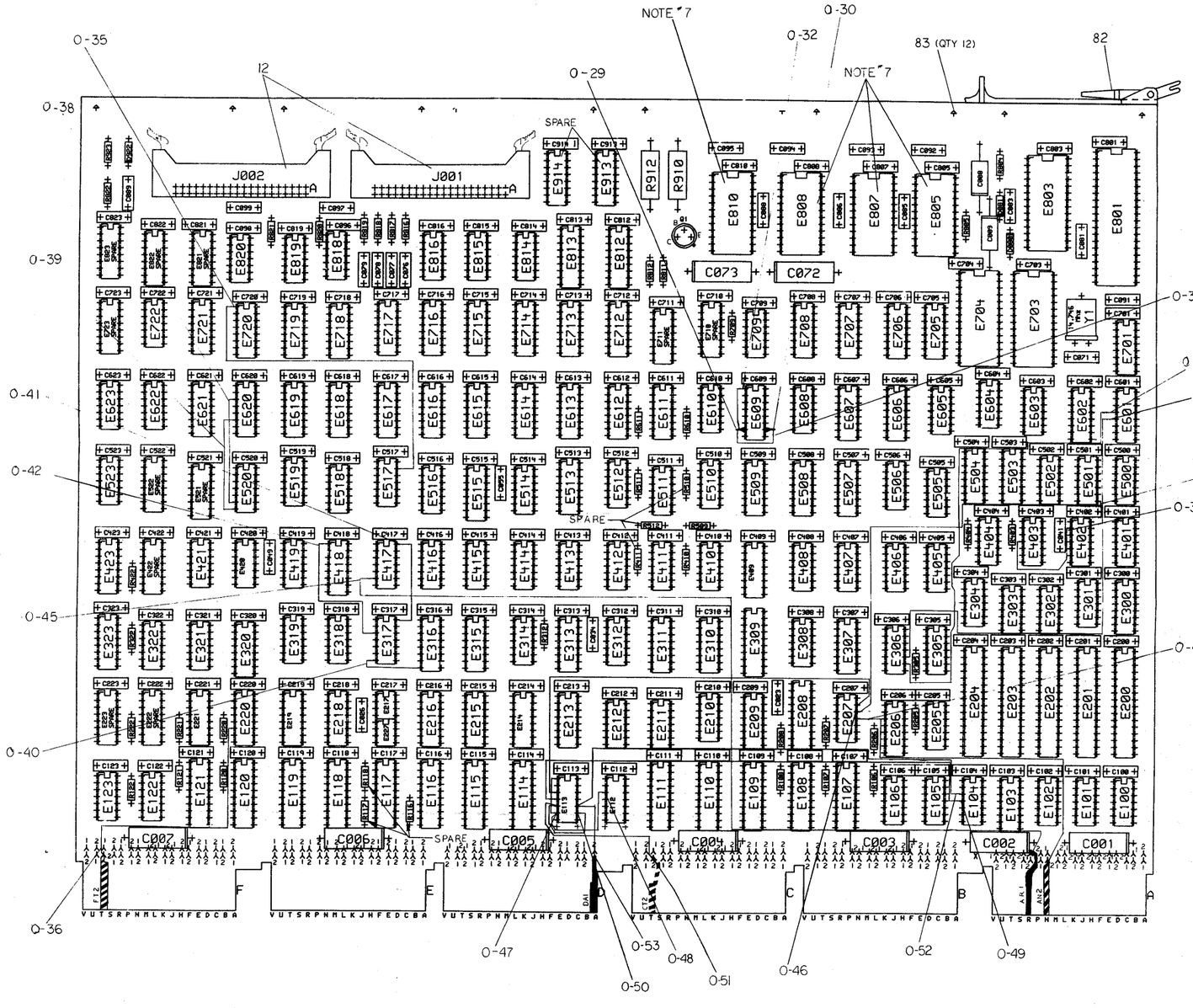
TITLE: KS1Ø CONSOLE

SIZE	CODE	NUMBER	REV.
B	DD	M8616-Ø	A

SHEET 2 OF 2

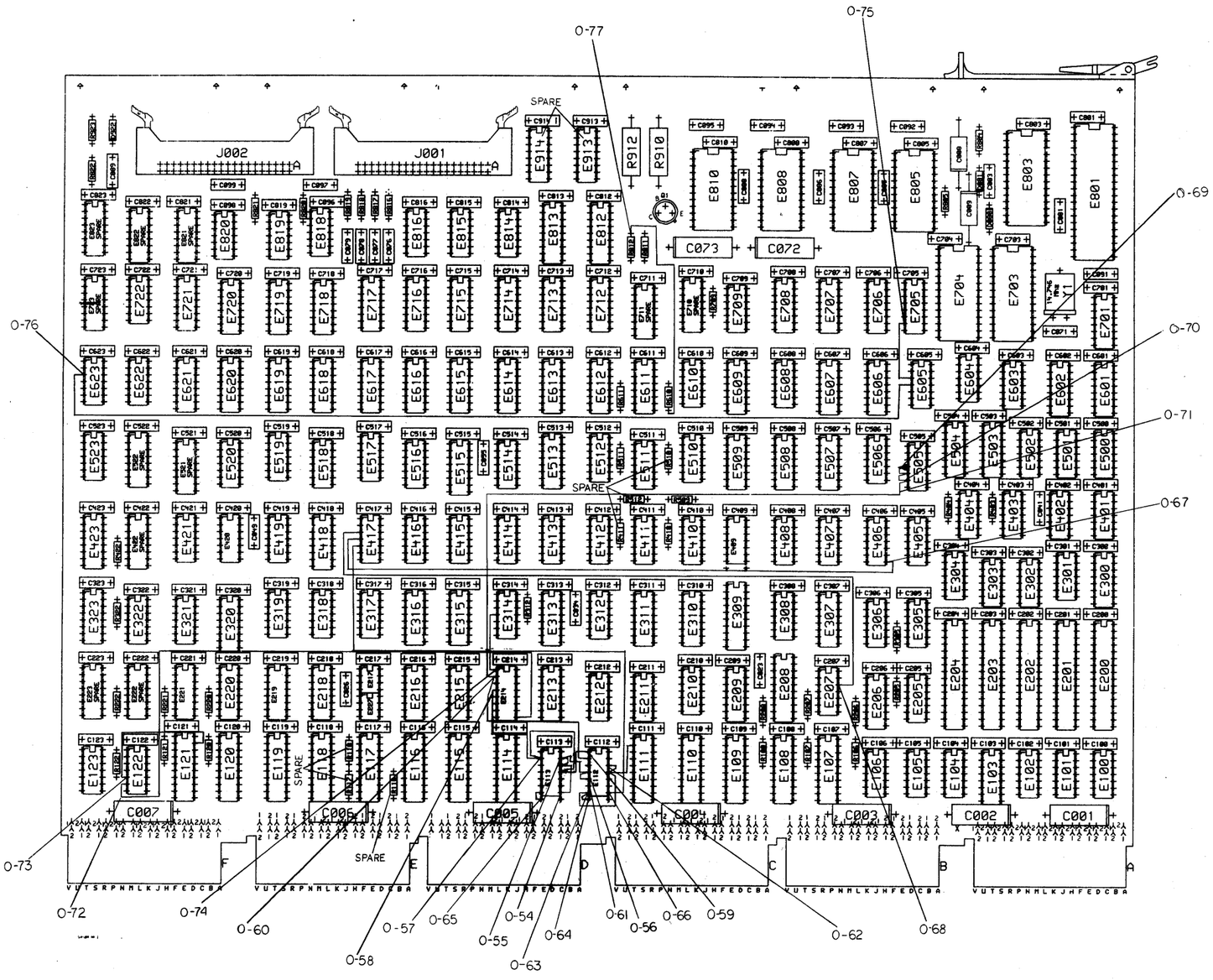
DRB 126

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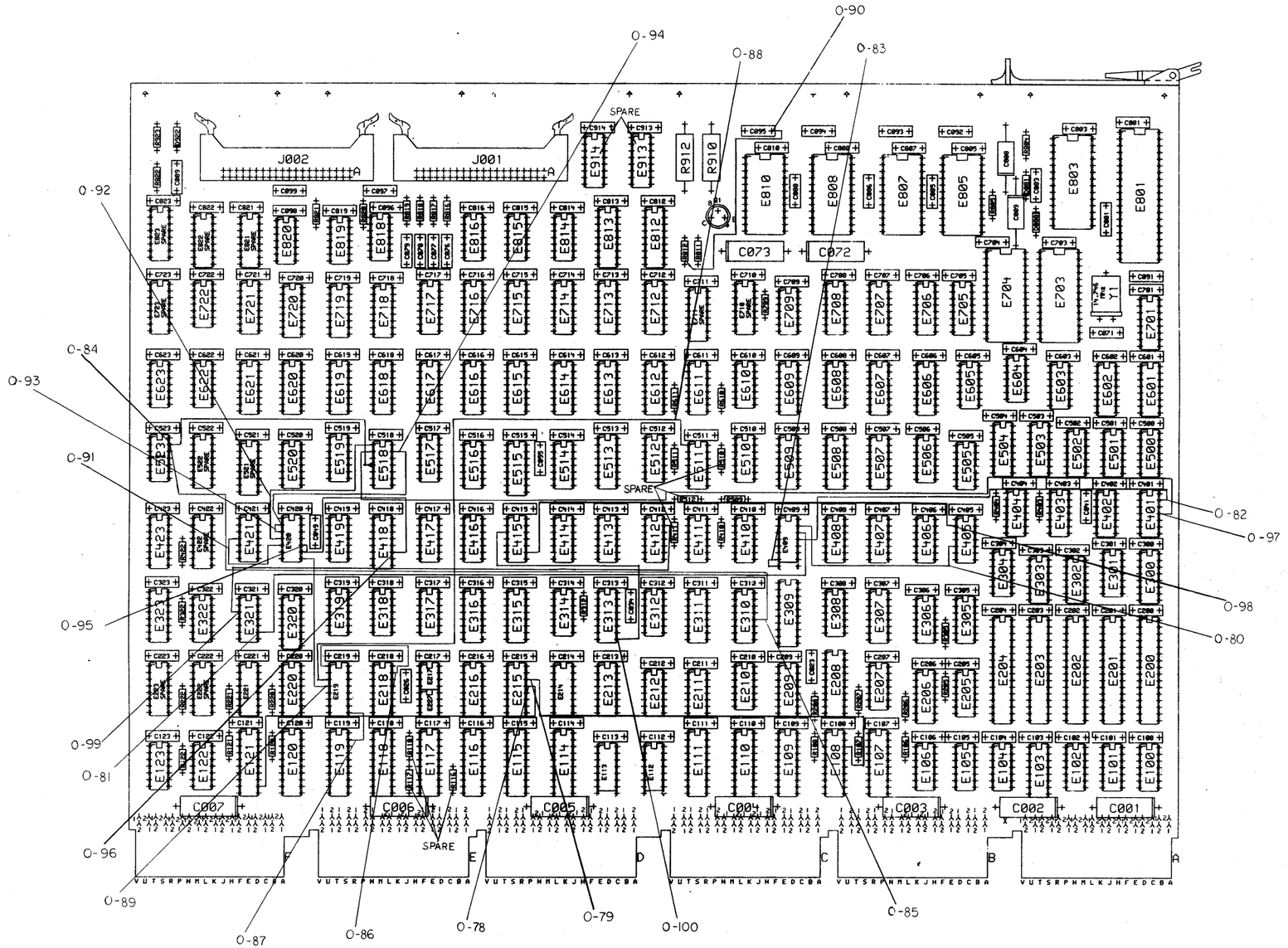
digital	DRN	DATE	ENG	DATE	TITLE: KS10 CONSOLE UNIT ASSEMBLY
	CHK'D	DATE	BOARD LOCATION: SHEET OF		
UM8616.DRAW 4.648			NEXT HIGHER ASSEMBLY:		SIZE CODE: NUMBER REV.
FIRST USED ON OPTION-MODEL: KS10			18-DD-M8616-0		E UA M8616-0-2 A

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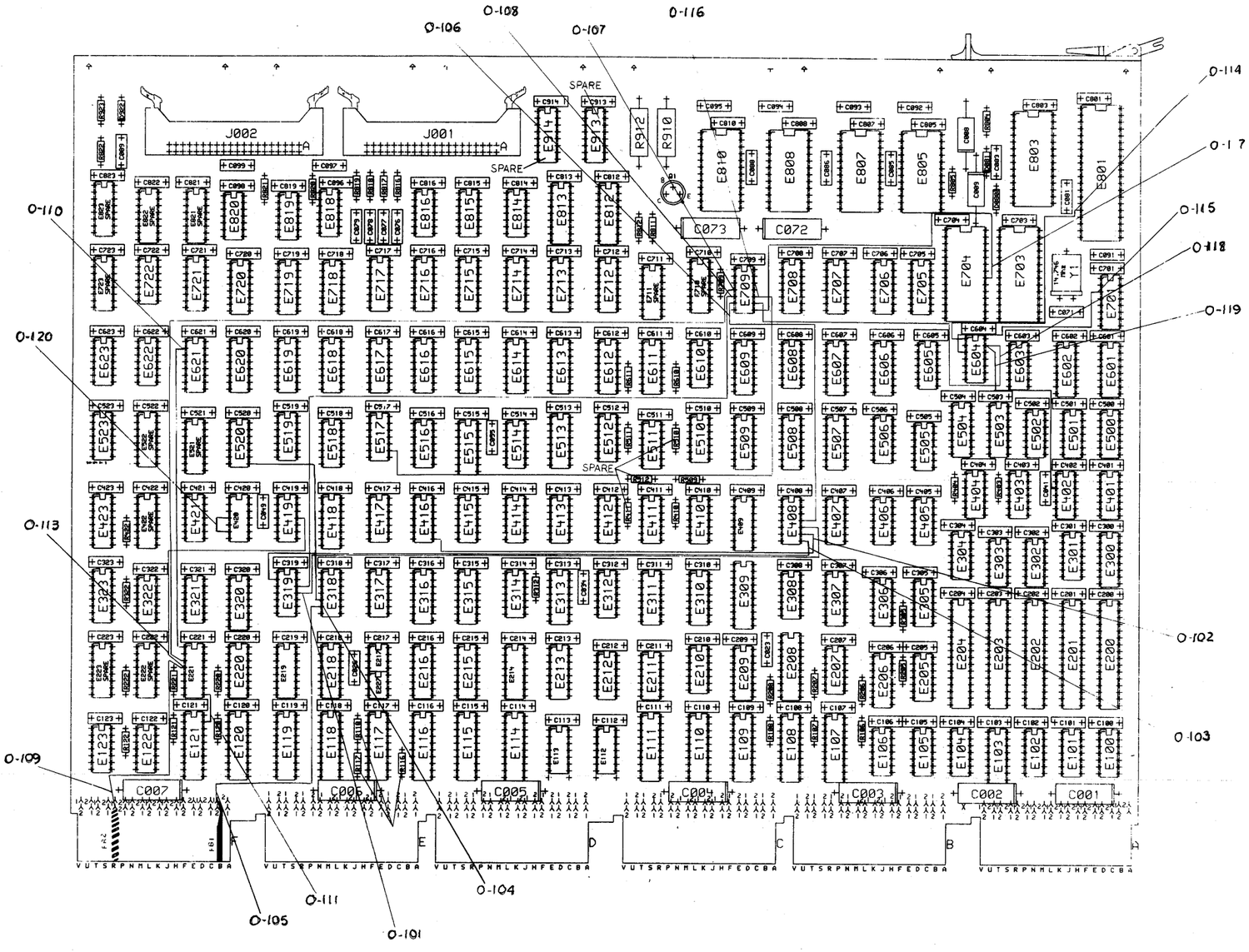


digital	DRN. E.Wilson	DATE 06-OCT-77	ENG.	DATE	TITLE: KS10 CONSOLE UNIT ASSEMBLY
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	BOARD LOCATION:		
FIRST USED ON OPTION/MODEL: KS10			NEXT HIGHER ASSEMBLY: 8-DD-MB616-0		SIZE E CODE 4A NUMBER MB616-0-0 REV. A

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digital	DRN. B.Wilson	DATE 23MAY77	ENG.	DATE	TITLE: KS10 CONSOLE UNIT ASSEMBLY
	CHK'D	DATE	BOARD LOCATION:		
			DATA SHEET	OF 3	
UM8616.DRW(4,818)			NEXT HIGHER ASSEMBLY:		SIZE E CODE UA NUMBER MB616-0-2 REV. A
FIRST USED ON OPTION/MODEL:	KS10		B-DD-MB616-0		



digital

DRN. J. Wilson DATE 26-OCT-77 TENG.

CHK'D. DATE

APP'D. BOARD LOCATION

UM8516.DRA(5,648) 26-OCT-77 21:18 NEXT HIGHER ASSEMBLY:

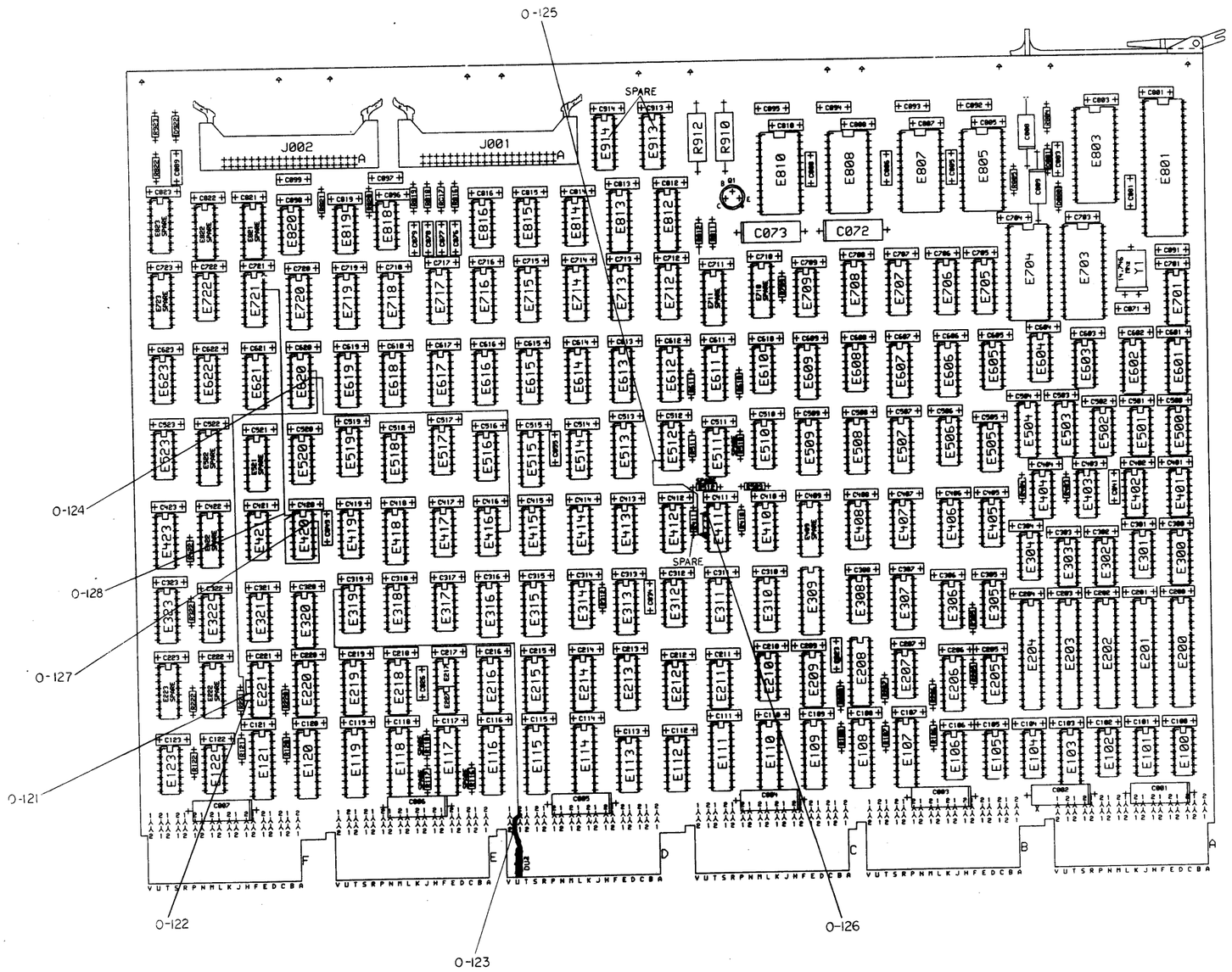
FIRST USED ON OPTION/MODEL: KS10 REQUIRED

TITLES:

KS10 CONSOLE UNIT ASSEMBLY

SIZE CODE NUMBER REV.

E UM-M8516-0 0 A



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REVISIONS

CHK	CHANGE NO.	REV

digital

DRN: J. Landy
DATE: 11-19-79
CHK:
DATE:
UNLESS ORDER(,001)
FIRST USED ON OPTION/MODEL: KS10

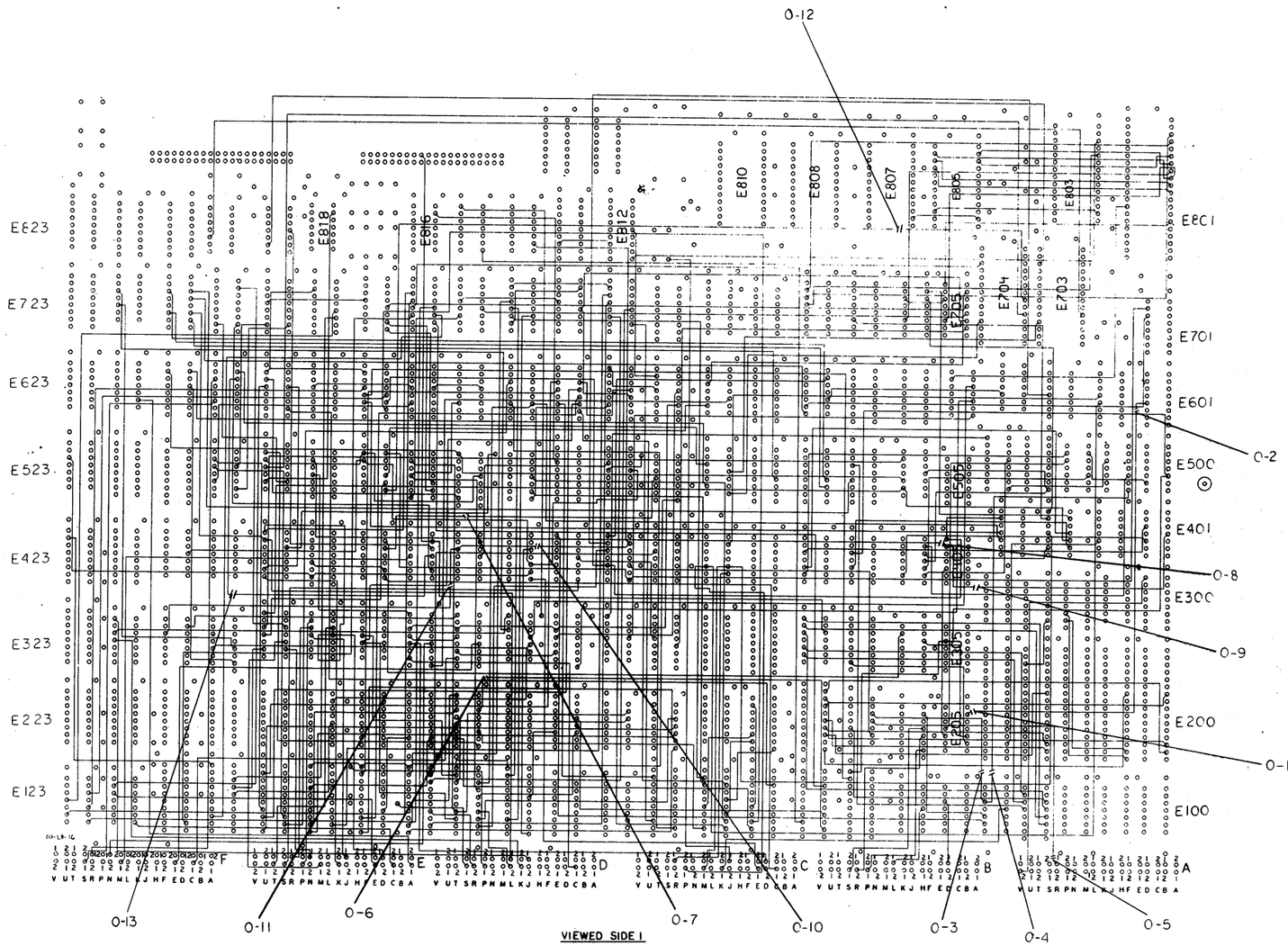
END 1 of 1
BOARD LOCATION: M8
SIZE: D
NEXT HIGHER ASSEMBLY: 12-DD-M8816-0

DATE: 11-19-79
TAB:
SITE CODE:
NUMBER: E-CS-M8816-0-1

TITLE: KS10 CONSOLE UNIT ASSEMBLY

REV: A

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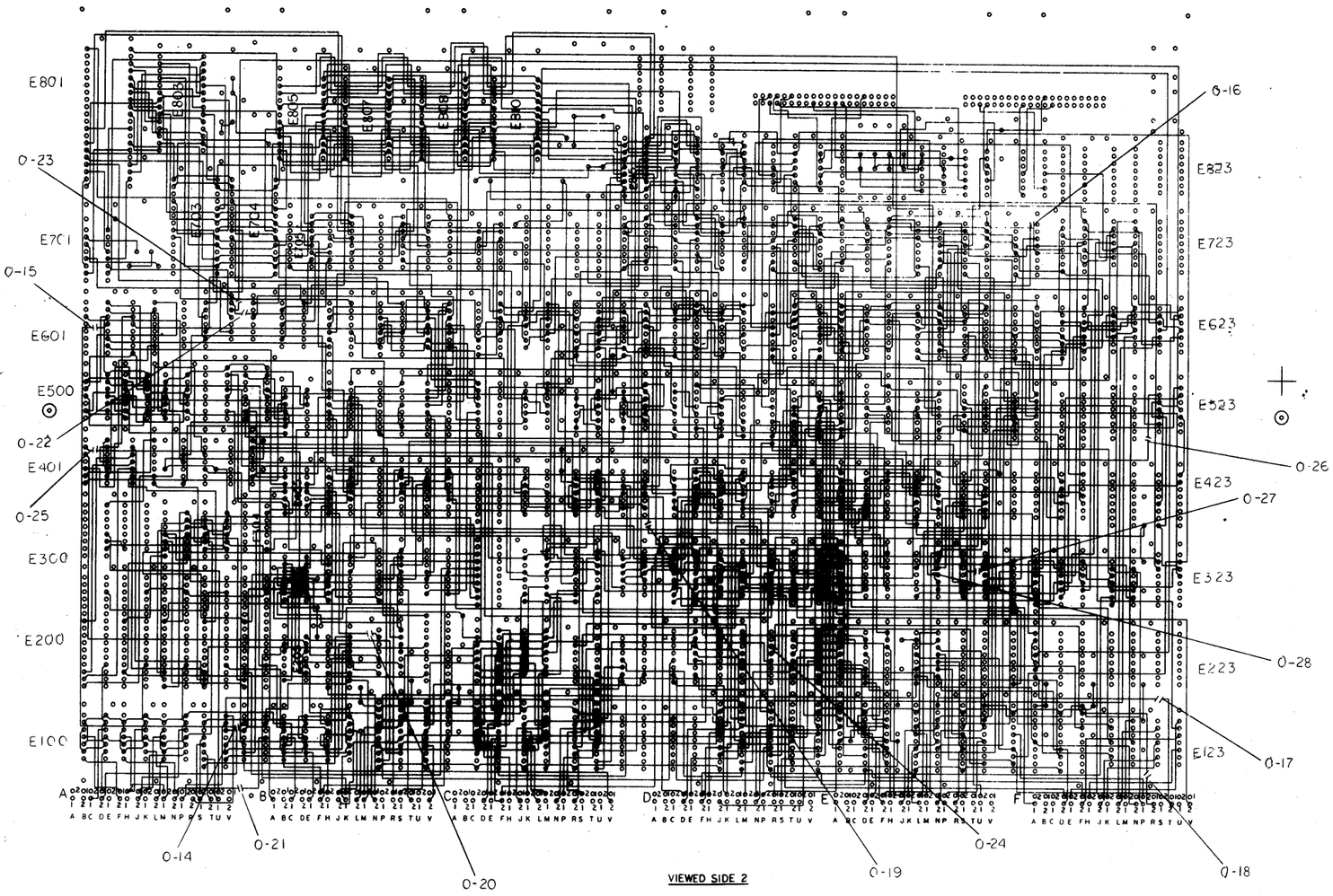
VIEWED SIDE I

REVISIONS		
	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
KS1Ø CONSOLE		E	UA	M8616-Ø-Ø	A
SCALE 2/1	SHEET 6 OF 9	DIST.			

UA M8616-0-0 A

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REVISIONS		
CHK	CHANGE NO	REV

TITLE	KSIØ CONSOLE		SIZE/CODE	NUMBER / REV
SCALE 2/1	SHEET 7 OF 9		E UA	M8616-Ø-Ø / A
			DIST	

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E101 E201 E301 E401 E501 E601 E701 E801

E100 E200 E300 E400 E500 E600 E700 E800

E123 E223 E323 E423 E523 E623 E723 E823

VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	KSIO CONSOLE	SIZE	CODE	NUMBER	REV
		E	UA	M8616-0-0	A
SCALE	2/1	SHEET	8 OF 9	DIST.	

M8616-0-0 A

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NOTES:
1. FOR DRAWING DIRECTORY, REFER TO: B-DD-M8616-0
2. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	VCC	GND	-VCC
16 PIN DIP	16	8	-
14 PIN DIP	14	7	-
IC DEC 8648	20	5 15	-
IC DEC 8640	8	1	-
IC DEC 2114-2	18	9	-
IC DEC 8080	20,28	2	11

3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
4. MAXIMUM COMPONENT HEIGHT IS .700
5. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
6. FINISHED HOLE SIZES ARE, IN INCHES:
   + = .037 ±.003
   ◊ = .133 +.002,-.007
   X = .100 ±.003
   Δ = .025 +.003,-.006
7. E805,E807,E810, & E816 WILL BE SUPPLIED BY ENGINEERING

REWORK INSTRUCTIONS
FIRST RELEASE

ETCH CUTS SIDE #1 AS SHOWN

0-1 AT E1B5 (13)
0-2 AT E1B1 (5)
0-3 AT ETCH ABOVE AND TO LEFT OF E1B4 (1)
0-4 AT ETCH ABOVE AND TO RIGHT OF E1B4 (1)
0-5 AT FINGER PIN AR1 PTH
0-6 AT ETCH ABOVE AND TO RIGHT OF E215 (16)
0-7 AT THIRD ETCH BELOW E515 (9)
0-8 AT E4B5 (2)
0-9 AT ETCH BELOW AND TO RIGHT OF E4B5 (8)
0-10 AT ETCH RUNNING BETWEEN E414 (12 & 13)
0-11 AT SECOND ETCH BELOW AND TO THE LEFT OF E415 (3)
0-12 AT ETCH BELOW AND TO LEFT OF E8B7 (13)
0-13 AT ETCH BELOW E420(8)

} SHT 6 OF 9

ETCH CUTS SIDE #2 AS SHOWN

0-14 AT E1B4 (13)
0-15 AT E6B1 (4)
0-16 AT E728 (1)
0-17 AT ETCH BELOW E223 (9)
0-18 AT FINGER PIN FR2 PTH
0-19 AT ETCH BELOW AND TO RIGHT OF E412 (7)
0-20 AT E2B1 (13)
0-21 AT SECOND ETCH BELOW E1B4 (8)
0-22 AT E1B4 (13)
0-23 AT E9B4 (12)
0-24 AT E215 (13)
0-25 AT E4B1 (13)
0-26 AT SECOND ETCH BELOW AND TO LEFT OF E523 (8)
0-27 AT E315 (2)
0-28 AT E314 (5)

} SHT 7 OF 9

WIRE ADDS SIDE #1 AS SHOWN

0-29,0-30 LIFT LEG E6B8 (7) AND LIFT LEG E6B9 (10).
0-31 FROM LEG OF E6B9 (7) TO LEG OF E6B9 (10)
0-32 FROM E6B9 (1) TO LEG OF E6B9 (7)
0-33 FROM E3B5 (10) TO E6B1 (5)
0-34 FROM E3B5 (9) TO E6B1 (4)
0-35 FROM E728 (1) TO E917 (13)
0-36 FROM E228 (6) TO FINGER PIN FT2 PTH
0-37 FROM E4B3 (2) TO E4B3 (4)
0-38 FROM E528 (6) TO E928 (3)
0-39 FROM E528 (7) TO E928 (8)
0-40 FROM E317 (7) TO E316 (9)
0-41 FROM E317 (14) TO E417 (14)
0-42 FROM E317 (3) TO E418 (1)
0-43 FROM E2B7 (12) TO E5B1 (8)
0-44 FROM E2B7 (11) TO FINGER PIN AN2 PTH
0-45 FROM E417 (8) TO FINGER PIN AR1 PTH

} SHT 1 OF 9

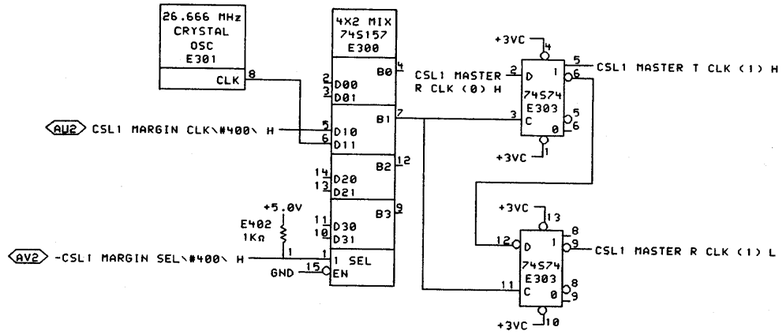
0-46 FROM E2B7 (13) TO E113 (3)
0-47 FROM E113 (1) TO E113 (6)
0-48 FROM E113 (6) TO E112 (3)
0-49 FROM E113 (4) TO E1B4 (4)
0-50 FROM E113 (5) TO E113 (9)
0-51 FROM E113 (9) TO FINGER PIN CT2 PTH
0-52 FROM E1B4 (3) TO E113 (10)
0-53 FROM E113 (10) TO FINGER PIN DA1 PTH
0-54 FROM E113 (8) TO E113 (12)
0-55 FROM E113 (12) TO E113 (13)
0-56 FROM E112 (4) TO E113 (13)
0-57 FROM E113 (11) TO E113 (2)
0-58 FROM E214 (4) TO E113 (2)
0-59 FROM E112 (1) TO E113 (11)
0-60 FROM E112 (2) TO E214 (2)
0-61 FROM E112 (5) TO E112 (4)
0-62 FROM E112 (11) TO E113 (12)
0-63 FROM E112 (11) TO E112 (7)
0-64 FROM E112 (7) TO PTH BELOW E112 (7)
0-65 FROM E113 (7) TO PTH BELOW E113 (7)
0-66 FROM E112 (9) TO E417 (5)
0-67 FROM E4B1 (8) TO E417 (4)
0-68 FROM E417 (3) TO E2B7 (12)
0-69 LIFT LEG E5B5 (4) AND ADD WIRE FROM LEG TO E5B5 (5)
0-70 FROM E5B5 (5) TO E5B5 (6)
0-71 FROM E5B5 (8) TO E214 (2)
0-72 FROM E314 (8) TO E122 (8)
0-73 FROM E122 (5) TO E121 (10)
0-74 FROM E214 (1) TO E314 (4)
0-75 FROM E8B5 (3) TO E7B5 (7)
0-76 FROM E8B5 (4) TO E823 (3)
0-77 FROM BOTTOM LEG OF R818 TO TOP LEG OF R412
0-78 FROM E215 (13) TO E121 (12)
0-79 FROM E215 (14) TO E108 (16)
0-80 FROM E4B9 (13) TO E4B5 (5)
0-81 FROM E4B9 (12) TO E321 (9)
0-82 FROM E4B9 (11) TO E4B1 (13)
0-83 FROM E4B9 (7) TO PTH BELOW E4B9 (7)
0-84 LIFT LEG OF E518 (4) AND ADD WIRE FROM LEG TO E523 (13)
0-85 FROM E318 (12) TO E523 (13)
0-86 FROM E219 (1) TO E218 (15)
0-87 FROM E219 (9) TO E118 (10)
0-88 FROM E219 (3) TO E511 (1)
0-89 FROM E219 (4) TO E428 (8)
0-90 LIFT BOTTOM LEG OF R812 ADD WIRE FROM LEG TO RIGHT LEG OF C895
0-91 FROM E428 (5) TO E421 (4)
0-92 FROM E428 (4) TO E518 (1)
0-93 FROM E428 (2) TO E428 (3)
0-94 FROM E428 (2) TO E518 (13)
0-95 FROM E428 (8) TO E428 (10)
0-96 FROM E428 (8) TO E418 (11)
0-97 FROM E4B1 (11) TO E519 (2)
0-98 FROM E4B5 (2) TO E415 (9)
0-99 FROM E321 (3) TO E412 (13)
0-100 FROM E415 (3) TO E313 (9)
0-101 FROM E319 (11) TO E4B9 (10)
0-102 FROM E4B8 (8) TO E418 (8)
0-103 FROM E4B8 (8) TO E319 (2)
0-104 FROM E318 (5) TO E528 (8)
0-105 FROM E318 (8) TO FINGER PIN FB1
0-106 FROM E7B9 (8) TO E4B8 (11)
0-107 FROM E7B9 (4) TO E221 (3)
0-108 FROM E7B9 (5) TO E319 (12)
0-109 FROM E221 (4) TO FINGER PIN FR2
0-110 FROM E221 (1) TO E821 (2)
0-111 FROM E221 (8) TO E121 (15)
0-112 NOT USED
0-113 FROM E418 (11) TO E221 (4)
0-114 FROM E9B4 (1) TO E9B1 (16)
0-115 FROM E9B4 (2) TO E7B1 (3)
0-116 FROM E7B8 (10) TO E517 (9)
0-117 FROM E7B9 (9) TO E7B4 (21)
0-118 FROM E7B5 (9) TO E9B4 (13)
0-119 FROM E9B4 (13) TO E4B2 (3)
0-120 FROM E428 (8) TO E428 (4)
0-121 FROM E221(3) TO E221(5)
0-122 FROM E221(6) TO E620114)
0-123 FROM FINGER PIN DU2 TO E3191)
0-124 FROM E620(3) TO E418(11)
0-125 LIFT LEG OF E411(5) AND ADD WIRE FROM LEG TO E512(6)
0-126 LIFT LEG OF E411(2) AND ADD WIRE FROM LEG TO LEG OF E411(5)
0-127 FROM E420111 TO E620113)
0-128 FROM E420111 TO E721114)

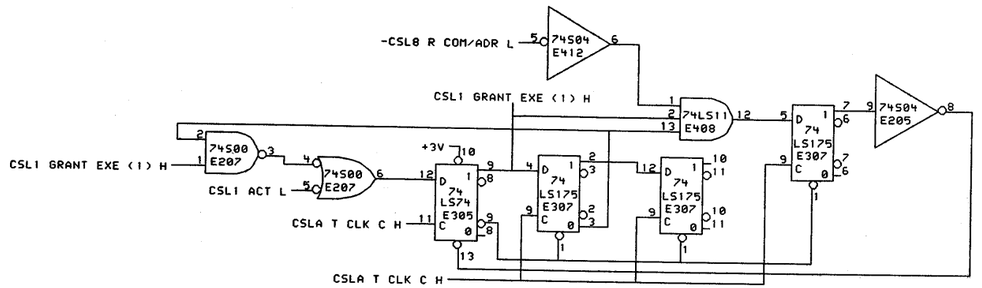
} SHT 1 OF 9
} SHT 2 OF 9
} SHT 3 OF 9
} SHT 4 OF 9
} SHT 5 OF 9

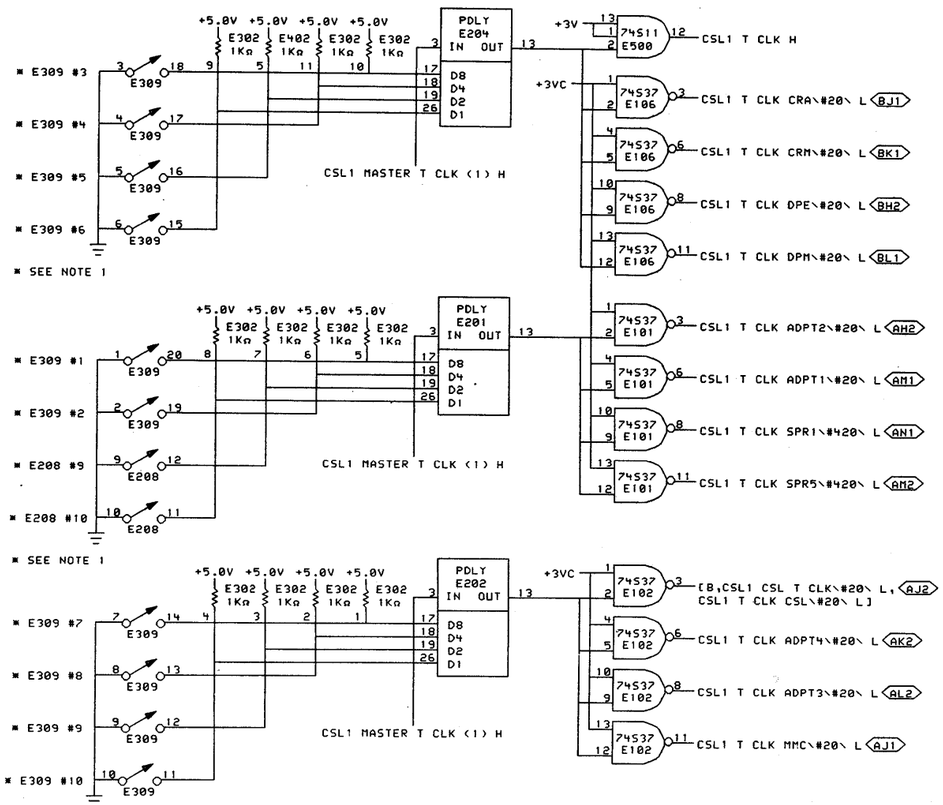
REVISIONS		
CHK	CHANGE NO.	REV.

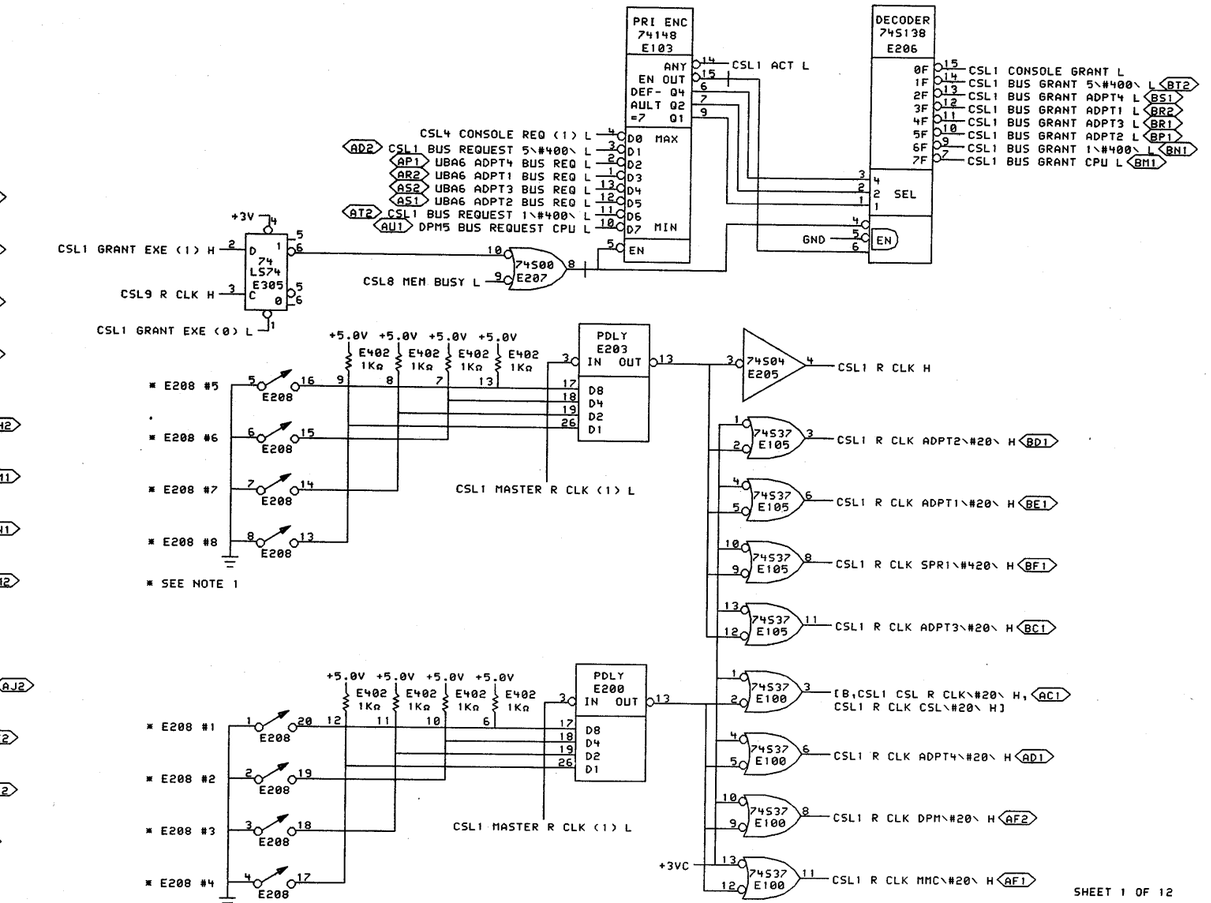
TITLE	SIZE	CODE	NUMBER	REV.
KSIO CONSOLE	E	UA	M8616-0-0	A
SCALE —	SHEET 9 OF 9	DIST.		

M8616-0-0 REV A









SHEET 1 OF 12

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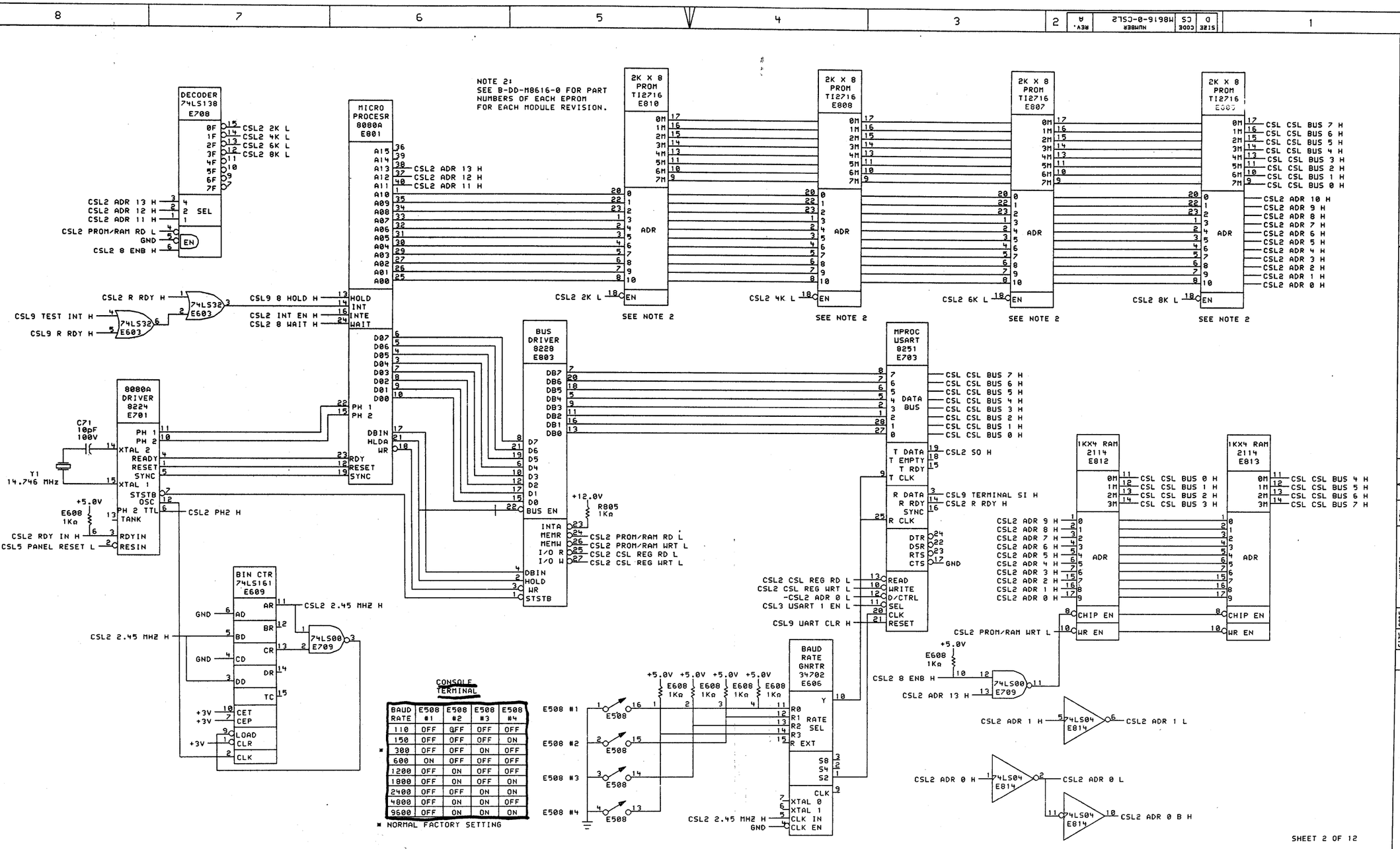
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. J. Toomey DATE 03-MAY-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF18
SHEET 1 OF 1
CSL1.DRW[4,661] 03-MAY-78 10:58 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8616-0

TITLE: CONSOLE & CONTROL CLK, KS10 ARB.

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL1	A



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REVISIONS

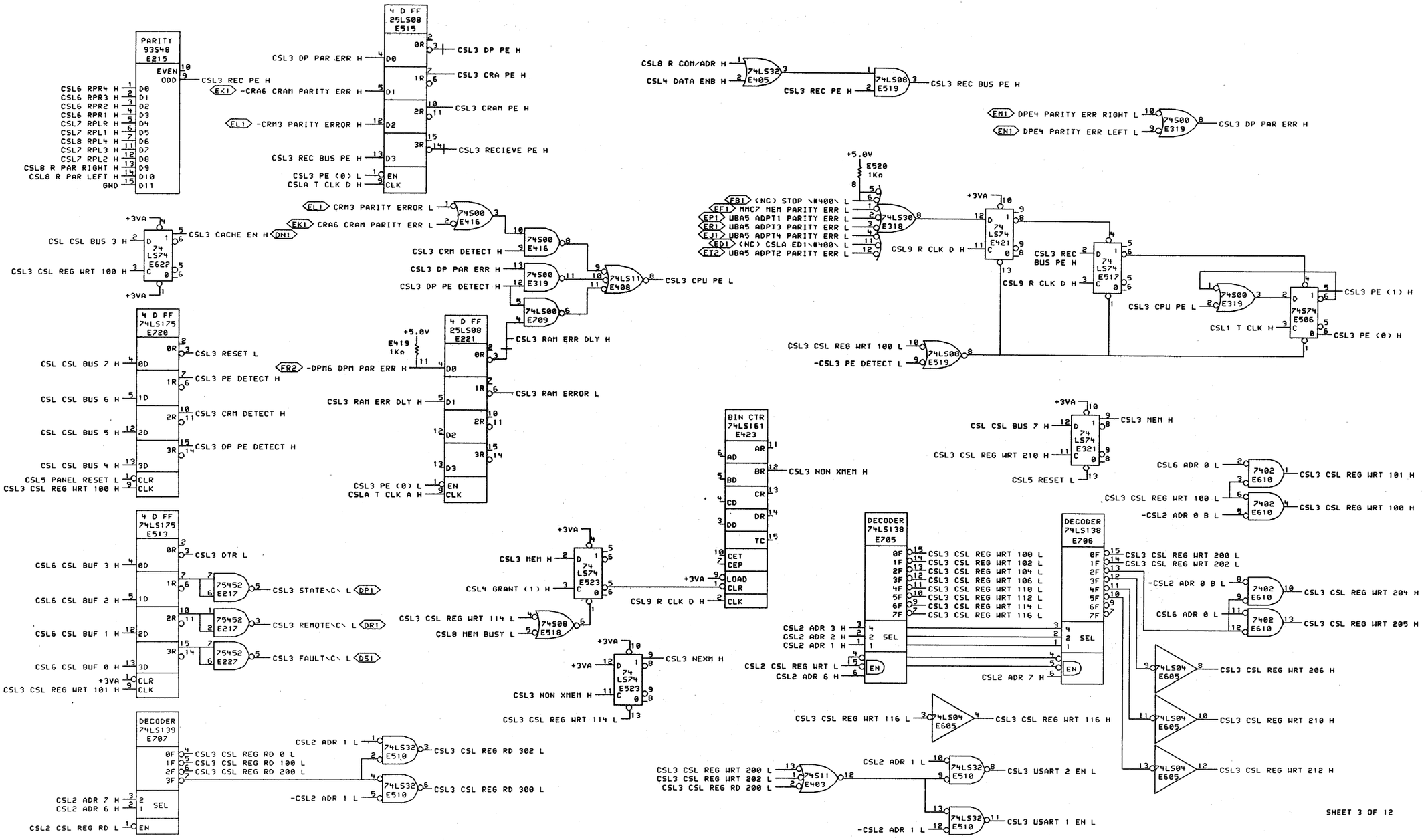
CHK	CHANGE NO.	REV

digital

DRN. Toomey 03-MAY-78 | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION: 1AF18
SHEET 1 OF 1
CSL2.DRW[4,661] 03-MAY-78 11:11 | NEXT HIGHER ASSEMBLY: B-DD-M8616-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONSOLE & CONTROL
CONSOLE CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL2	A



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. D. Toomey — DATE 02-MAY-78 — ENG. — DATE
CHK'D. — DATE 02-MAY-78 — BOARD LOCATION: 1AF18 — SHEET 1 OF 1

TITLE: CONSOLE & CONTROL ADRESS DECODE

CSL3.DRW[4,661] 02-MAY-78 10:51 — NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8616-0

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL3	A

used to address cram loading (12 bit data time)

CSL6 CSL BUF 5 H
CSL6 CSL BUF 4 H
CSL6 CSL BUF 3 H
CSL6 CSL BUF 2 H
CSL6 CSL BUF 1 H
CSL6 CSL BUF 0 H
CSL5 RESET L
CSL3 CSL REG WRT 205 H
6 D FF 74LS174 E315
CSL4 TRAP EN H FV2
CSL4 DIAG 10 H FC1
CSL4 DIAG 4 H FD1
CSL4 DIAG 2 H FE1
CSL4 DIAG 1 H FF1

CSL6 CSL BUF 5 H
CSL6 CSL BUF 4 H
CSL6 CSL BUF 3 H
CSL6 CSL BUF 2 H
CSL6 CSL BUF 1 H
CSL6 CSL BUF 0 H
CSL5 RESET L
CSL3 CSL REG WRT 204 H
6 D FF 74LS174 E316
CSL4 CRAM WRITE H FA1
CSL4 CRAM ADR LOAD H CD1
CSL4 SS MODE H DC1
CSL4 DP RESET H FJ1
CSL4 STACK RESET H FN1
CSL4 CRA/M RESET H FK1

CSL6 CSL BUF 5 H
CSL6 CSL BUF 4 H
CSL6 CSL BUF 3 H
CSL6 CSL BUF 2 H
CSL6 CSL BUF 1 H
CSL6 CSL BUF 0 H
CSL5 RESETB L
CSL3 CSL REG WRT 210 H
6 D FF 74LS174 E313
CSL4 XMIT ADR (1) H
CSL4 XMIT DATA (1) H
CSL4 CRA T CLK ENB (1) H
CSL4 CRA R CLK ENB(1) H
CSL4 LATCH DATA (1) H
CSL4 CLOSE LATCHS H

+3VA
CSL CSL BUS 6 H
CSL3 CSL REG WRT 210 H
CSL5 RESETB L
CSL4 GRANT (1) L
74LS08 E306
CSL4 BUS REQ H
CSLA T CLK C H
74 LS74 E722
74 S175 E507
74 S175 E567
CSL4 CONSOLE REQ (1) L

FM1 CRM2 # 15B H
CSL4 CPM CMD LD H
74S00 E416
GND
CSL5 RESET H
74 LS74 E321
CSL4 HALT LOOP (1) H

-CSL7 R DATA 18 L
74S04 E412
NC

CSL1 CONSOLE GRANT L
74S04 E104
CSL4 GRANT H

+3VA
CSL CSL BUS 2 H
CSL3 CSL REG WRT 100 H
74 LS74 E622
CSL4 1 MSEC EN H EA1

FL1 DPMB CSL INTERRUPT L
CSL CSL BUS 5 H
CSL3 CSL REG WRT 205 H
74 LS74 E623
CSL4 10 INT H

+3VA
CSL CSL BUS 0 H
CSL3 CSL REG WRT 116 H
74 LS74 E623
74 S175 E220
74 S175 E220
CSL4 INT 10 L FT2
FT2 CSL4 INT 10 L
CSL5 RESET L
CSL5 ENABLE (0) H

FP1 CRM2 # 16B H
CSL4 CPM CMD LD H
74LS00 E322

+3VA
CSL6 CSL BUF 2 H
CSL3 CSL REG WRT 212 H
74 LS74 E314
74 S175 E320
CSL4 RUN (1) H
74LS04 E122
CSL4 RUN H EC1

DJ1 CRM2 # 14B H
CSL4 CPM CMD LD H
74LS00 E322

+3VA
CSL6 CSL BUF 1 H
CSL3 CSL REG WRT 212 H
74 LS74 E314
74 S175 E320
CSL4 EXECUTE B H
74LS00 E413
CSL4 EXECUTE H ES1

DK1 CRM2 # 13B H
CSL4 CPM CMD LD H
74LS00 E322

+3VA
CSL CSL BUS 0 H
CSL3 CSL REG WRT 212 H
74 LS74 E722
74 S175 E320
CSL4 CONTINUE H

CSL5 CRAM CLK H
CSL4 SPEC H
74LS08 E519
CSL4 CPM CMD LD H
74LS00 E322
DF1 CRM2 # 12B H

CSL5 ENABLE (0) H
CSL5 RESET L

EE1 CRA2 SPEC/CONSOLE L
74LS04 E122
CSL4 SPEC H

CSL4 CONTINUE H
74LS04 E122
CSL4 CONTINUE L DV2

CSL4 EXECUTE B H
74LS04 E122
CSL4 EXECUTE L DT2

-CSL7 R DATA 14 L
-CSL7 R DATA 15 L
-CSL7 R DATA 16 L
-CSL7 R DATA 17 L
8815 E317
CSL8 R COM/ADR H
CSL8 R DATA 00 H
CSL7 R DATA 19 H
74S20 E404
CSLA T CLK C H

+3V
74S74 E506
CSL4 GRANT H
CSL4 XMIT ADR (1) H
74LS00 E413
CSL4 STATUS RD (1) H
74S11 E414
CSL4 T ENB L
74S11 E414
CSL4 T ENB A L
CSL4 XMIT DATA (1) H
74S08 E518
74LS00 E413
CSL4 DATA CYCLE H
CSLA T CLK D H
74 S175 E418

CSL4 CRA T CLK ENB (1) H
CSL4 GRANT H
74S10 E417
CSL4 CRA T CLK ENABLE L CC1

CSL4 CLOSE LATCHS H
CSLA T CLK D H
74 S175 E418
CSLA T CLK D H
74 S175 E418

CSL4 GRANT (1) L
CSL4 LATCH DATA ENB (1) L
74S10 E417
NC

CSL4 GRANT H
CSL4 GRANT (1) H
CSL4 GRANT (1) L
CSLA T CLK D H
74 S175 E418

CSL8 R I/O DATA H
CSL8 R DATA H
74S04 E205
74S04 E205
NC
74S00 E401
CSL4 RETURN DATA H

CSL3 MEM H
74S00 E409

CSL4 GRANT (1) H
CSL4 LATCH DATA (1) H
74LS00 E413
CSL4 LATCH DATA ENB (1) H
CSL4 LATCH DATA ENB (1) L
74S74 E415
CSL3 CSL REG WRT 210 H
CSL4 DATA ENB H

CSL4 LATCH DATA ENB (1) H
CSL4 RETURN DATA H
74S08 E510
-CSL9 R CLK H
74S74 E415

CSL4 GRANT H
CSL4 BUS REQ H
74H53 E420
CSL4 R CLK ENB H
CSLA T CLK A H
74 S175 E219

CSL4 GRANT (1) H
CSL4 CRA R CLK ENB (1) H
CSL9 R CLK D H
74S11 E414
CSL4 CRA R CLK ~#20~ H CE1

NC
GND
74 LS74 E421
CSL4 DATA ACK H
CSL3 CSL REG RD 0 L

SHEET 4 OF 12

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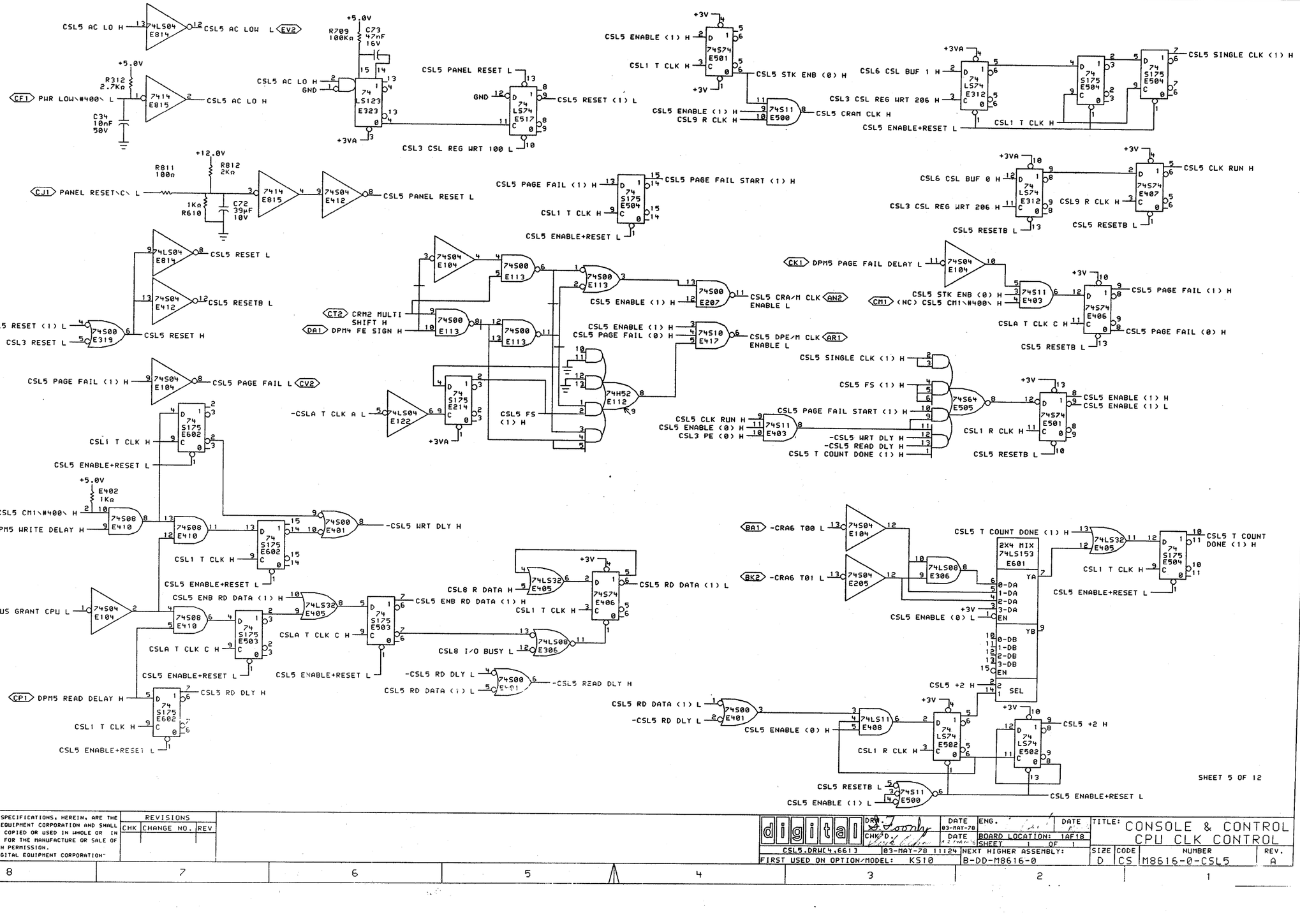
REVISIONS

CHK	CHANGE NO.	REV

digital	DRN. S. Toomey	DATE 03-MAY-78	ENG. / DATE
	CHK'D. /	DATE	BOARD LOCATION: 1AF18
CSL4.DRW[4,661] 03-MAY-78 11:45			SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: KS10			NEXT HIGHER ASSEMBLY: B-DD-M8616-0

TITLE: CONSOLE&CONTROL CPU CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL4	A



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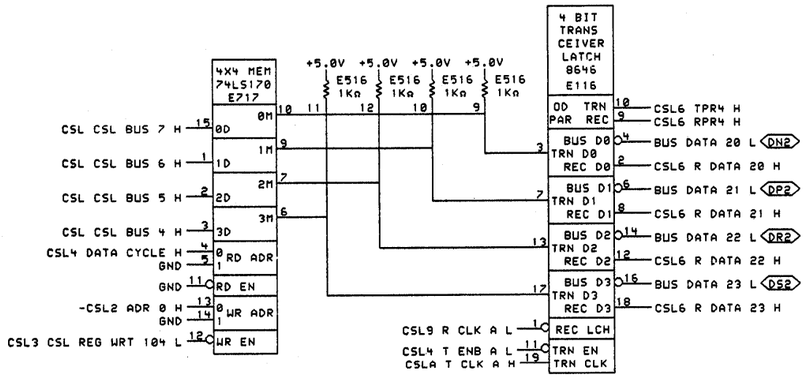
REVISIONS		
CHK	CHANGE NO.	REV

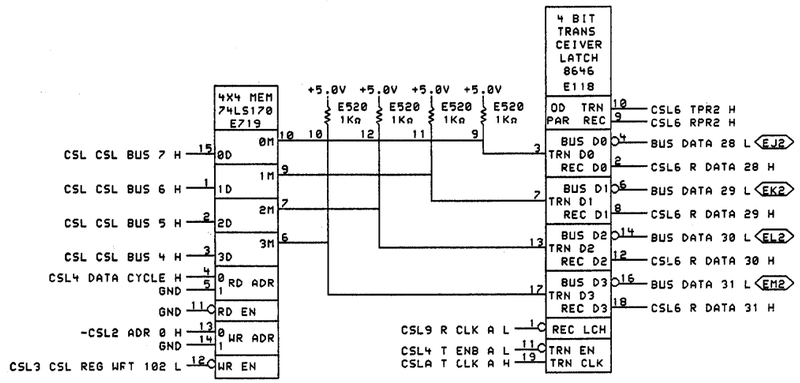
digital

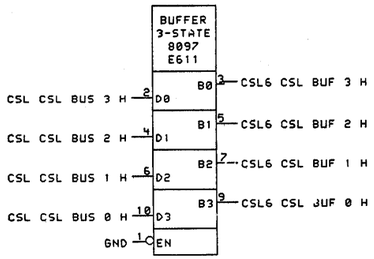
DRN. S. Loonby DATE 03-MAY-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF18
SHEET 1 OF 1
CSL5.DRW[4,661] 03-MAY-78 11:24 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8616-0

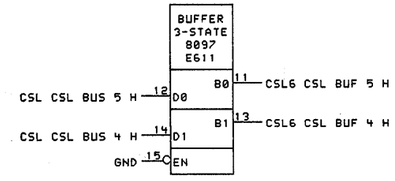
TITLE: CONSOLE & CONTROL
CPU CLK CONTROL

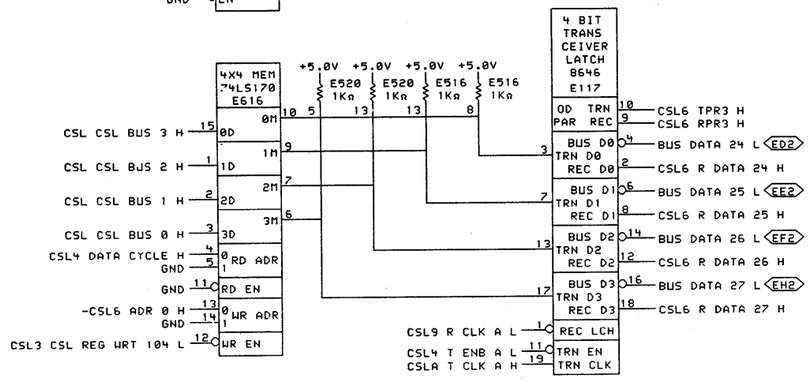
SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL5	A

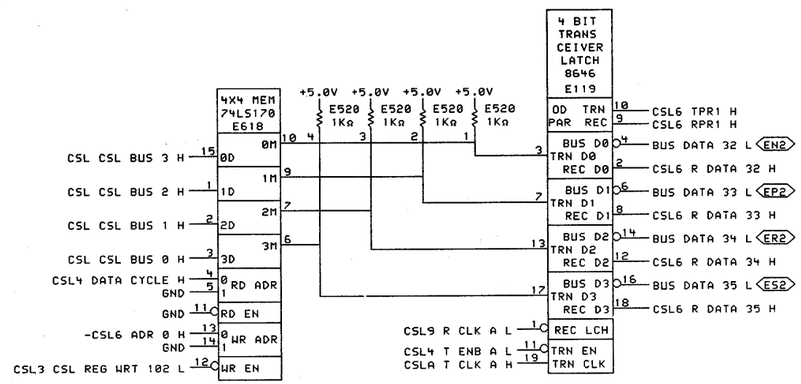


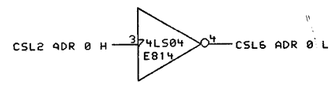












SHEET 6 OF 12

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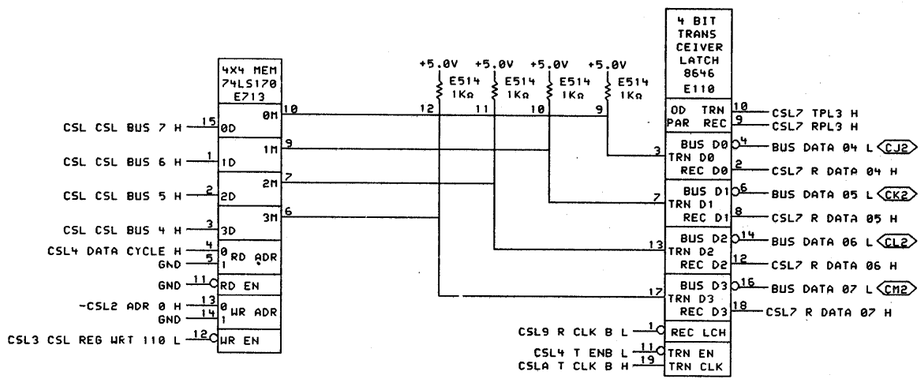
REVISIONS		
CHK	CHANGE NO.	REV

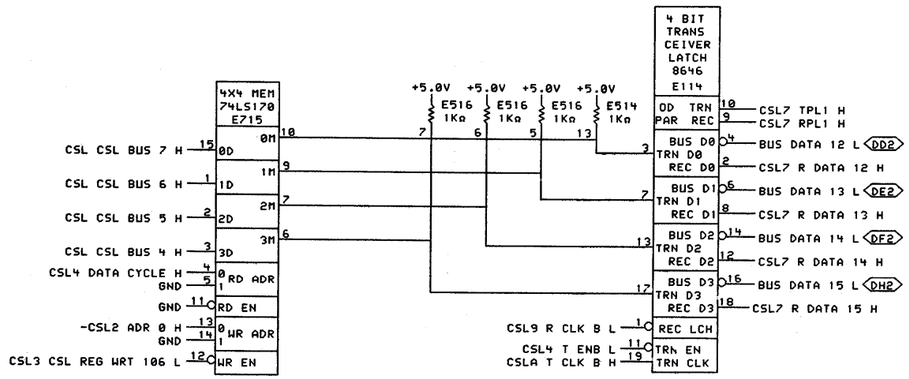
digital

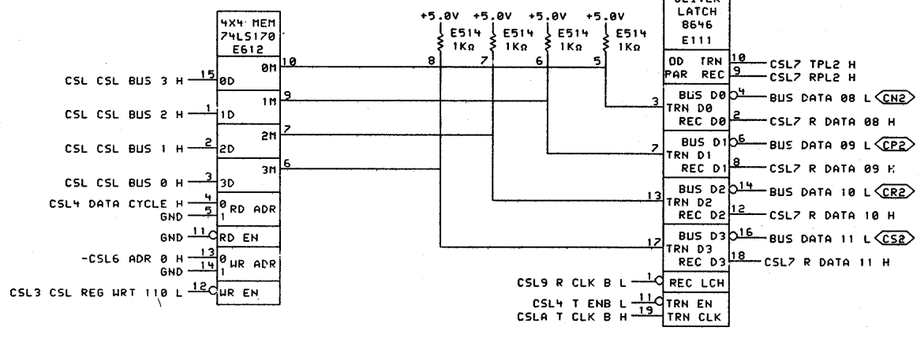
DES T.Toomey | DATE 20-APR-78 | ENG J. Pepi | DATE
CHK *D* | DATE | BOARD LOCATION: 1AF18
CSL6.DRW[4,661] | 20-APR-78 07:05 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8616-0

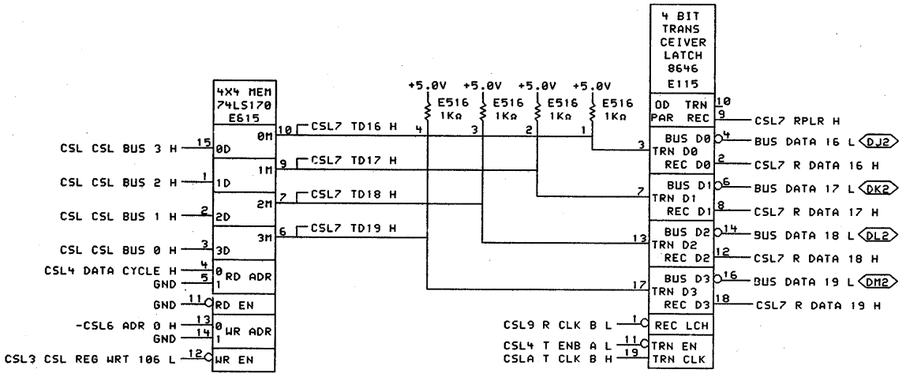
TITLE: CONSOLE & CONTROL DATA PATH 1

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL6	A









SHEET 7 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital

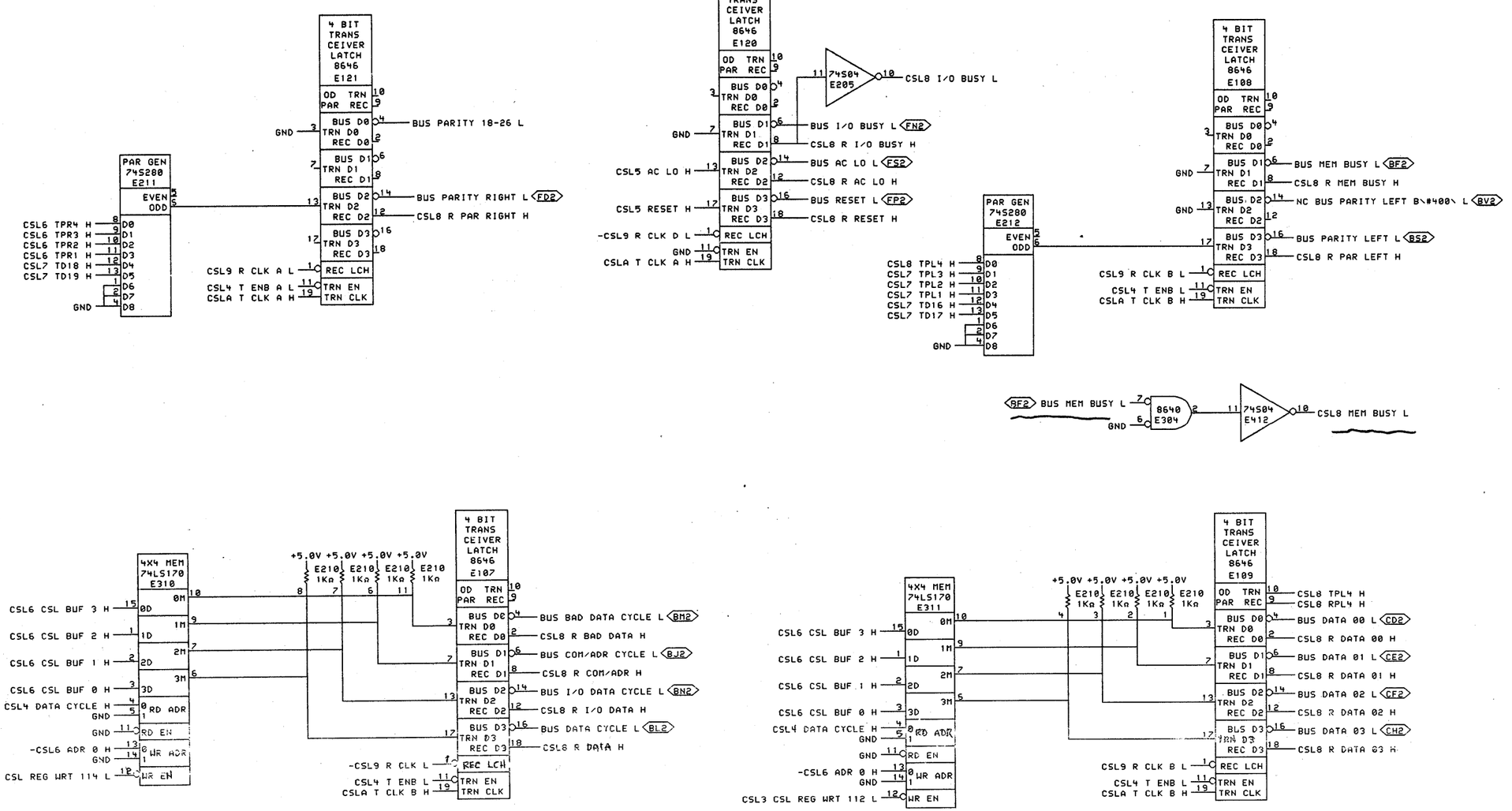
DRN. S. Toomey | DATE 20-APR-78 | ENG. | DATE
CHK'D | DATE | BOARD LOCATION: 1AF18 | SHEET 1 OF 1

CSL7.DRW[4,661] | 20-APR-78 07:12 | NEXT HIGHER ASSEMBLY: B-DD-M8616-0

FIRST USED ON OPTION/MODEL: KS10

TITLE: CONSOLE CONTROL DATA PATH 2

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL7	A



SHEET 8 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

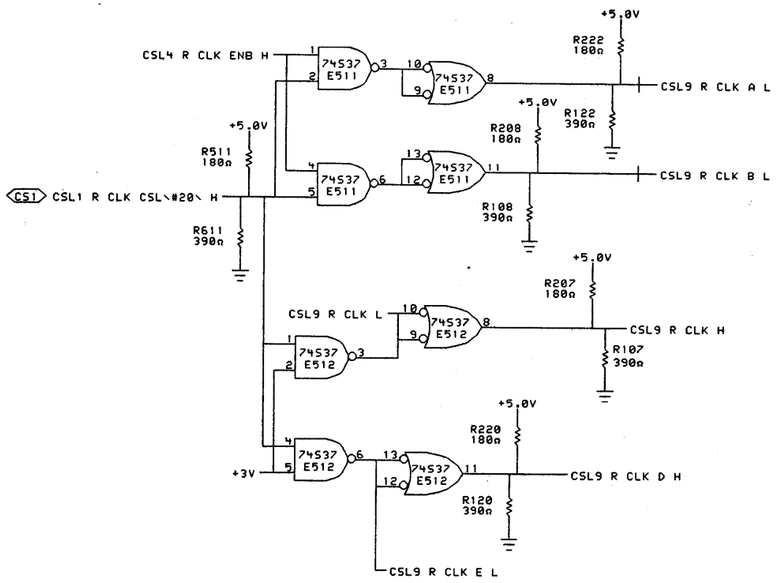
digital

DRN. S. Toomey — DATE 20-APR-78 — ENG. — DATE —
CHK'D, — DATE — BOARD LOCATION: 1AF18
SHEET 1 OF 1
CSL8.DRW[4,661] — 20-APR-78 07:19 — NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8616-0

TITLE: CONSOLE CONTROL DATA PATH 3

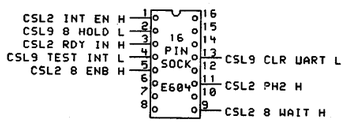
SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL8	A

SIZE D | CODE CS | NUMBER M8616-0-CSL8 | REV. A



GR = general radio tester

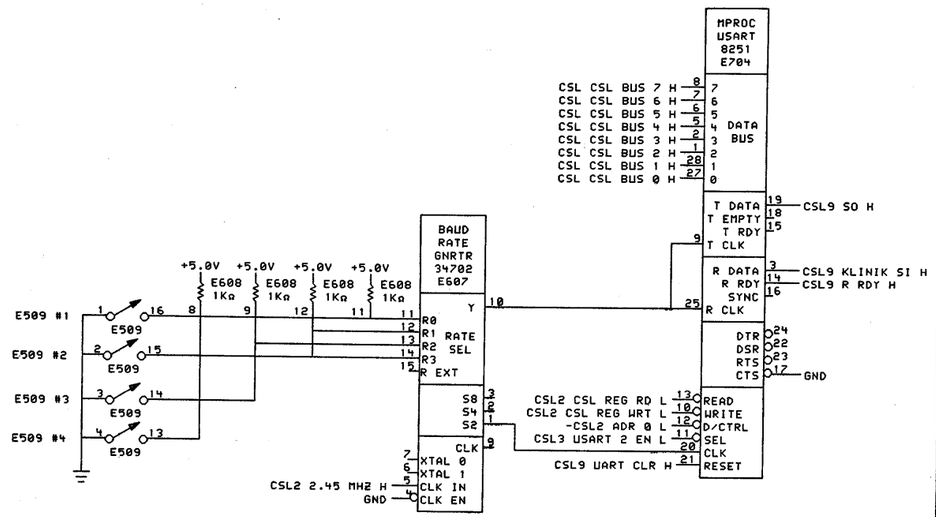
E604 IS NOT USED
SOCKET IS FOR GR TEST

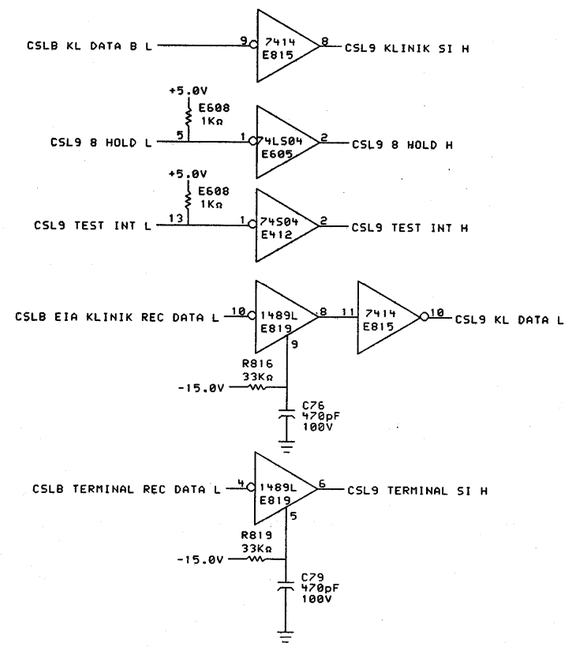


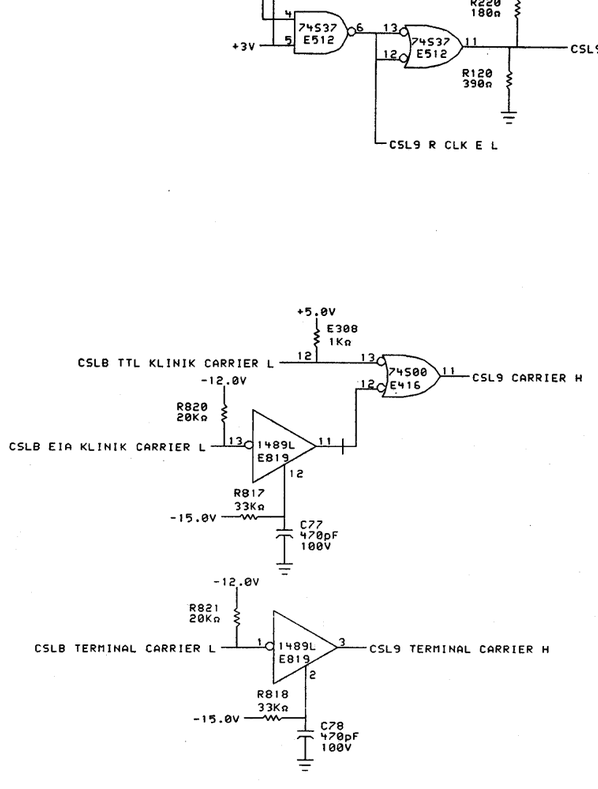
REMOTE DIAGNOSIS

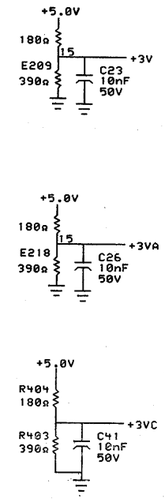
	BAUD RATE	E509 #1	E509 #2	E509 #3	E509 #4
	110	OFF	OFF	OFF	OFF
	150	OFF	OFF	OFF	ON
*	300	OFF	OFF	ON	OFF
	600	ON	OFF	OFF	OFF
	1200	OFF	ON	OFF	OFF
	1800	OFF	ON	OFF	ON
	2400	OFF	OFF	ON	ON
	4800	OFF	ON	ON	OFF
	9600	OFF	ON	ON	ON

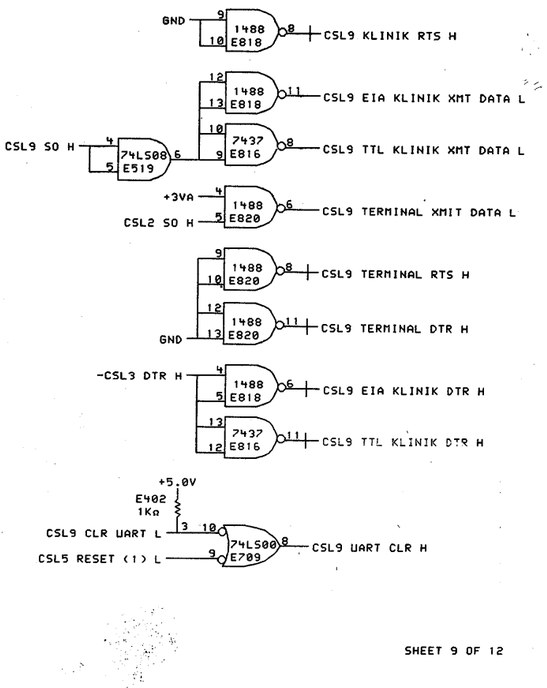
* NORMAL FACTORY SETTING











SHEET 9 OF 12

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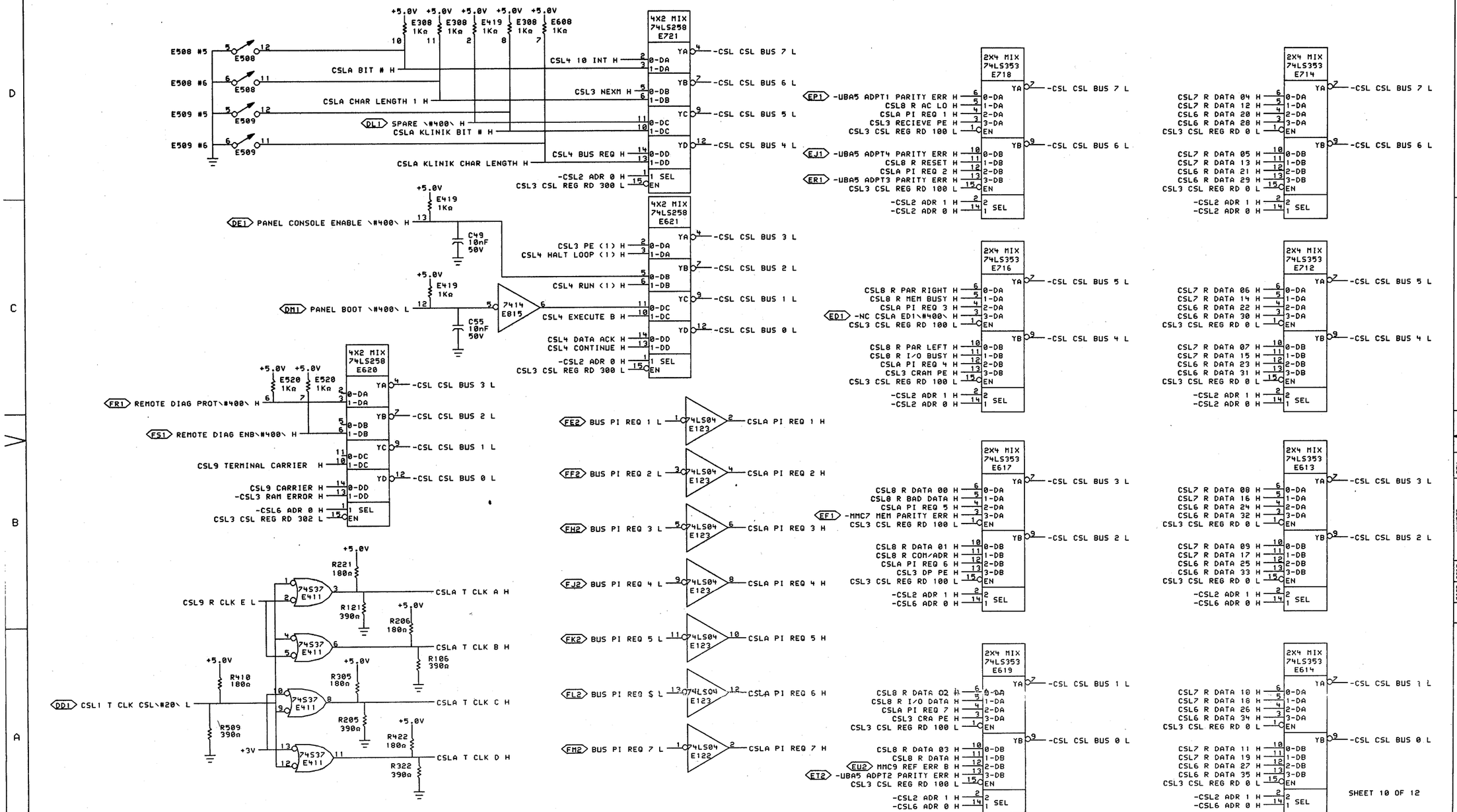
CHK	CHANGE NO.	REV

digital

DRN: D. Toomey — DATE: 03-MAY-78 — ENG. — DATE
CHK'D. — DATE — BOARD LOCATION: 1AF18
CSL9.DRW[4,661] — 03-MAY-78 11:43 — SHEET 1 OF 1 — NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: K510 — B-DD-M8616-0

TITLE: CONSOLE & CONTROL KLINIK

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSL9	A



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REVISIONS		
CHK	CHANGE NO.	REV

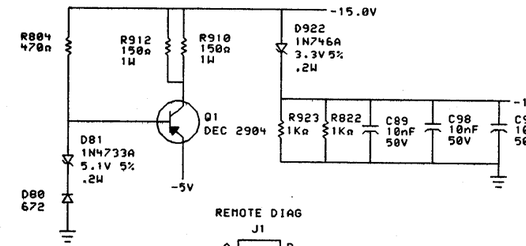
digital

DRN D.Toomey DATE 27-APR-78 ENG. DATE
CHK D. DATE BOARD LOCATION: 1AF18
SHEET 1 OF 1

CSLA.DRW[4,661] 27-APR-78 08:59 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8616-0

TITLE: CONSOLE & CONTROL CPU CLK CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSLA	A



REMOTE DIAG
J1

GND	A	B	GND
	C	D	
CSL9 KL DATA L	E	F	CSL9 EIA KLINIK XMT DATA L
CSL9 TTL KLINIK XMT DATA L	H	J	CSLB EIA KLINIK REC DATA L
	K	L	
CSLB KL DATA B L	M	N	
	P	R	
	S	T	
	U	V	CSL9 KLINIK RTS H
	W	X	
	Y	Z	
CSLB TTL KLINIK CARRIER L	AA	BB	CSLB EIA KLINIK CARRIER L
+12.0V	CC	DD	CSL9 EIA KLINIK DTR H
	EE	FF	
-12.0V	HH	JJ	
CSL9 TTL KLINIK DTR H	KK	LL	
	MM	NN	
	PP	RR	
	SS	TT	+5.0V
GND	UU	VV	GND

CONSOLE TERMINAL
J2

GND	A	B	GND
	C	D	
	E	F	CSL9 TERMINAL XMIT DATA L
	H	J	CSLB TERMINAL REC DATA L
	K	L	
	M	N	
	P	R	
	S	T	
	U	V	CSL9 TERMINAL RTS H
	W	X	
	Y	Z	
CSLB TERMINAL CARRIER L	AA	BB	
	CC	DD	CSL9 TERMINAL DTR H
	EE	FF	
	HH	JJ	
	KK	LL	
	MM	NN	
	PP	RR	
	SS	TT	
GND	UU	VV	GND

BF2 BUS MEM BUSY L — +5.0V, 180Ω, E209 pin 14, 390Ω
BJ2 BUS COM/ADR CYCLE L — +5.0V, 180Ω, E216 pin 12, 390Ω
BUS PARITY 18-26 L — +5.0V, 180Ω, E218 pin 11, 390Ω
FS2 BUS AC LO L — +5.0V, 180Ω, E218 pin 13, 390Ω
(NC) BUS PARITY LEFT B\#400\ L — +5.0V, 180Ω, E213 pin 13, 390Ω
BN2 BUS I/O DATA CYCLE L — +5.0V, 180Ω, E213 pin 12, 390Ω
AT2 CSL1 BUS REQUEST 1\#400\ L — +5.0V, E308 1KΩ, pin 1
AS1 UBA6 ADPT2 BUS REQ L — +5.0V, E308 1KΩ, pin 2
ED1 (NC) CSLA ED1\#400\ L — +5.0V, E419 1KΩ, pin 1
EK1 CRA6 CRAM PARITY ERR L — +5.0V, E419 1KΩ, pin 7
EL1 CRM3 PARITY ERROR L — +5.0V, E419 1KΩ, pin 8
EN1 DPE4 PARITY ERR LEFT L — +5.0V, E419 1KΩ, pin 9
EM1 DPE4 PARITY ERR RIGHT L — +5.0V, E419 1KΩ, pin 10
EF1 MMC7 MEM PARITY ERR L — +5.0V, E419 1KΩ, pin 3
EP1 UBA5 ADPT1 PARITY ERR L — +5.0V, E419 1KΩ, pin 4
ER1 UBA5 ADPT3 PARITY ERR L — +5.0V, E419 1KΩ, pin 5
ET2 UBA5 ADPT2 PARITY ERR L — +5.0V, E419 1KΩ, pin 6
AS2 UBA6 ADPT3 BUS REQ L — +5.0V, E308 1KΩ, pin 3
AR2 UBA6 ADPT1 BUS REQ L — +5.0V, E308 1KΩ, pin 4
AP1 UBA6 ADPT4 BUS REQ L — +5.0V, E308 1KΩ, pin 5
AD2 CSL1 BUS REQUEST 5\#400\ L — +5.0V, E308 1KΩ, pin 6
EJ1 -UBA5 ADPT4 PARITY ERR H — +5.0V, E308 1KΩ, pin 7

EK2 BUS DATA 29 L — +5.0V, 180Ω, E216 pin 11, 390Ω
DM2 BUS DATA 19 L — +5.0V, 180Ω, E213 pin 11, 390Ω
CP2 BUS DATA 09 L — +5.0V, 180Ω, E209 pin 11, 390Ω
CD2 BUS DATA 00 L — +5.0V, 180Ω, E209 pin 1, 390Ω
EL2 BUS DATA 30 L — +5.0V, 180Ω, E218 pin 1, 390Ω
DN2 BUS DATA 20 L — +5.0V, 180Ω, E216 pin 1, 390Ω
CR2 BUS DATA 10 L — +5.0V, 180Ω, E213 pin 1, 390Ω
CE2 BUS DATA 01 L — +5.0V, 180Ω, E209 pin 2, 390Ω
EM2 BUS DATA 31 L — +5.0V, 180Ω, E218 pin 2, 390Ω
DP2 BUS DATA 21 L — +5.0V, 180Ω, E216 pin 2, 390Ω
CS2 BUS DATA 11 L — +5.0V, 180Ω, E213 pin 2, 390Ω
CF2 BUS DATA 02 L — +5.0V, 180Ω, E209 pin 3, 390Ω
EN2 BUS DATA 32 L — +5.0V, 180Ω, E218 pin 3, 390Ω
DR2 BUS DATA 22 L — +5.0V, 180Ω, E216 pin 3, 390Ω
DD2 BUS DATA 12 L — +5.0V, 180Ω, E213 pin 3, 390Ω
CH2 BUS DATA 03 L — +5.0V, 180Ω, E209 pin 4, 390Ω
EP2 BUS DATA 33 L — +5.0V, 180Ω, E218 pin 4, 390Ω
DS2 BUS DATA 23 L — +5.0V, 180Ω, E216 pin 4, 390Ω
DE2 BUS DATA 13 L — +5.0V, 180Ω, E213 pin 4, 390Ω
CJ2 BUS DATA 04 L — +5.0V, 180Ω, E209 pin 5, 390Ω
ER2 BUS DATA 34 L — +5.0V, 180Ω, E218 pin 5, 390Ω
ED2 BUS DATA 24 L — +5.0V, 180Ω, E216 pin 5, 390Ω
DF2 BUS DATA 14 L — +5.0V, 180Ω, E213 pin 5, 390Ω
CK2 BUS DATA 05 L — +5.0V, 180Ω, E209 pin 6, 390Ω
EE2 BUS DATA 25 L — +5.0V, 180Ω, E216 pin 6, 390Ω
DH2 BUS DATA 15 L — +5.0V, 180Ω, E213 pin 6, 390Ω
CL2 BUS DATA 06 L — +5.0V, 180Ω, E209 pin 7, 390Ω
EF2 BUS DATA 26 L — +5.0V, 180Ω, E216 pin 7, 390Ω
DJ2 BUS DATA 16 L — +5.0V, 180Ω, E213 pin 7, 390Ω
CM2 BUS DATA 07 L — +5.0V, 180Ω, E209 pin 9, 390Ω
EH2 BUS DATA 27 L — +5.0V, 180Ω, E216 pin 9, 390Ω
DK2 BUS DATA 17 L — +5.0V, 180Ω, E213 pin 9, 390Ω
CN2 BUS DATA 08 L — +5.0V, 180Ω, E209 pin 10, 390Ω
EJ2 BUS DATA 28 L — +5.0V, 180Ω, E216 pin 10, 390Ω
DL2 BUS DATA 18 L — +5.0V, 180Ω, E213 pin 10, 390Ω

FN2 BUS I/O BUSY L — +5.0V, 180Ω, E218 pin 10, 390Ω
FP2 BUS RESET L — +5.0V, 180Ω, E218 pin 12, 390Ω
ES2 BUS DATA 35 L — +5.0V, 180Ω, E218 pin 6, 390Ω
BS2 BUS PARITY LEFT L — +5.0V, 180Ω, E209 pin 12, 390Ω
FD2 BUS PARITY RIGHT L — +5.0V, 180Ω, E218 pin 7, 390Ω
BL2 BUS DATA CYCLE L — +5.0V, 180Ω, E218 pin 9, 390Ω

SHEET 11 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D. Toomey	DATE 02-MAY-78	ENG.	DATE
CHK D.	DATE 02-MAY-78	BOARD LOCATION: 1AF18	
CSLB.DRW[4,661]	02-MAY-78 10:18	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: K510		B-DD-M8616-0	

TITLE: CONSOLE & CONTROL MISC

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSLB	A

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSLC	A

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D

C

B

A

+5.0V\V\ GND TTL\G#18\

C101 10nF 50V
C102 10nF 50V
C103 10nF 50V
C104 10nF 50V
C105 10nF 50V
C106 10nF 50V
C107 10nF 50V
C108 10nF 50V
C109 10nF 50V
C110 10nF 50V
C111 10nF 50V
C112 10nF 50V
C113 10nF 50V
C114 10nF 50V
C115 10nF 50V
C116 10nF 50V
C117 10nF 50V
C118 10nF 50V
C119 10nF 50V
C122 10nF 50V

AV1 BA2 BV1 CA2 CV1 DA2 DV1 EA2 EV1 FA2 FV1 AK1

AC2 AT1 BT1 BC2 BE2 CC2 CH1 DH1 DT1 DH1 DT1 EC2 EH1 ET1 FC2 FH1 FT1

+5.0V\V\ GND TTL\G#18\

C201 10nF 50V
C202 10nF 50V
C203 10nF 50V
C204 10nF 50V
C205 10nF 50V
C206 10nF 50V
C207 10nF 50V
C300 10nF 50V
C209 10nF 50V
C210 10nF 50V
C211 10nF 50V
C212 10nF 50V
C213 10nF 50V
C214 10nF 50V
C215 10nF 50V
C216 10nF 50V
C217 10nF 50V
C218 10nF 50V
C219 10nF 50V
C222 10nF 50V

+5.0V\V\ GND TTL\G#18\

C301 10nF 50V
C302 10nF 50V
C303 10nF 50V
C304 10nF 50V
C305 10nF 50V
C306 10nF 50V
C307 10nF 50V
C308 10nF 50V
C309 10nF 50V
C310 10nF 50V
C311 10nF 50V
C312 10nF 50V
C313 10nF 50V
C314 10nF 50V
C315 10nF 50V
C316 10nF 50V
C317 10nF 50V
C318 10nF 50V
C319 10nF 50V
C322 10nF 50V

+5.0V\V\ GND TTL\G#18\

C401 10nF 50V
C402 10nF 50V
C403 10nF 50V
C404 10nF 50V
C405 10nF 50V
C406 10nF 50V
C407 10nF 50V
C408 10nF 50V
C409 10nF 50V
C410 10nF 50V
C411 10nF 50V
C412 10nF 50V
C413 10nF 50V
C414 10nF 50V
C415 10nF 50V
C416 10nF 50V
C417 10nF 50V
C418 10nF 50V
C419 10nF 50V
C422 10nF 50V

+5.0V\V\ GND TTL\G#18\

C501 10nF 50V
C502 10nF 50V
C503 10nF 50V
C504 10nF 50V
C505 10nF 50V
C506 10nF 50V
C507 10nF 50V
C508 10nF 50V
C509 10nF 50V
C510 10nF 50V
C511 10nF 50V
C512 10nF 50V
C513 10nF 50V
C514 10nF 50V
C515 10nF 50V
C516 10nF 50V
C517 10nF 50V
C518 10nF 50V
C519 10nF 50V
C522 10nF 50V

+5.0V\V\ GND TTL\G#18\

C601 10nF 50V
C602 10nF 50V
C603 10nF 50V
C604 10nF 50V
C605 10nF 50V
C606 10nF 50V
C607 10nF 50V
C608 10nF 50V
C609 10nF 50V
C610 10nF 50V
C611 10nF 50V
C612 10nF 50V
C613 10nF 50V
C614 10nF 50V
C615 10nF 50V
C616 10nF 50V
C617 10nF 50V
C618 10nF 50V
C619 10nF 50V
C622 10nF 50V

+5.0V\V\ GND TTL\G#18\

C701 10nF 50V
C720 10nF 50V
C703 10nF 50V
C721 10nF 50V
C705 10nF 50V
C706 10nF 50V
C707 10nF 50V
C708 10nF 50V
C709 10nF 50V
C710 10nF 50V
C711 10nF 50V
C712 10nF 50V
C713 10nF 50V
C714 10nF 50V
C715 10nF 50V
C716 10nF 50V
C717 10nF 50V
C718 10nF 50V
C719 10nF 50V
C722 10nF 50V

+5.0V\V\ GND TTL\G#18\

C801 10nF 50V
C723 10nF 50V
C803 10nF 50V
C704 10nF 50V
C621 10nF 50V
C805 10nF 50V
C807 10nF 50V
C808 10nF 50V
C520 10nF 50V
C810 10nF 50V
C521 10nF 50V
C812 10nF 50V
C813 10nF 50V
C814 10nF 50V
C815 10nF 50V
C816 10nF 50V
C819 10nF 50V
C821 10nF 50V
C822 10nF 50V
C823 10nF 50V

+5.0V\V\ GND TTL\G#18\

C620 10nF 50V
C913 10nF 50V
C914 10nF 50V
C123 10nF 50V
C223 10nF 50V
C323 10nF 50V
C423 10nF 50V
C523 10nF 50V
C623 10nF 50V
C7 68µF 15V
C2 68µF 15V
C3 68µF 15V
C4 68µF 15V
C5 68µF 15V
C6 68µF 15V
C421 10nF 50V
C420 10nF 50V
C320 10nF 50V
C321 10nF 50V

+12.0V GND TTL\G#18\

AB1 FU2

C91 10nF 50V
C99 10nF 50V
C1 10µF 35V
C97 10nF 50V

GND
GND TTL

-5V

C9 10µF 35V
C81 10nF 50V

-15.0V\V\

AB2 FU1

C8 10µF 35V

+5.0V

C120 10nF 50V
C121 10nF 50V
C220 10nF 50V
C221 10nF 50V

+5.0V\V\ GND TTL\G#18\

C100 10nF 50V
C200 10nF 50V

AE2 — [B,GND,GND CLK \G#20\]
AH1 — [B,GND,GND CLK \G#20\]
AL1 — [B,GND,GND CLK \G#20\]
AP2 — [B,GND,GND CLK \G#20\]
BH1 — [B,GND,GND CLK \G#20\]
CT1 — [B,GND,GND CLK \G#20\]
DC2 — [B,GND,GND CLK \G#20\]
BB2 — [B,NC,-5.0V\V\]

AA1 NC
AA2 NC
AE1 NC
BB1 NC
BD2 NC
BP2 NC
BU1 NC
BU2 NC
BV2 NC
CB1 NC
CB2 NC
CL1 NC
CN1 NC
CU1 NC
CA1 NC
DB1 NC
DB2 NC
EB2 NC
FB2 NC

SHEET 12 OF 12

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSLC	A

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. J. Toomey DATE 02-MAY-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF18
SHEET 1 OF 1
CSLC.DRW[4,661] 02-MAY-78 10:14 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: K510 B-DD-M8616-0

TITLE: CONSOLE & CONTROL POWER,GND,CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8616-0-CSLC	A

SIZE	CODE	NUMBER	REV.
B	DD	M8618-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8618-Ø-Ø	7		MOS MEMORY CONTROL	A
K-PL-M8618-Ø-DBP	2		PARTS LIST (M8618)	A
D-CS-M8618-Ø-MMC1	1		MEMORY CONTROL, SM1Ø BUS	A
D-CS-M8618-Ø-MMC2	1		MEMORY CONTROL, ERROR CORRECTION	A
D-CS-M8618-Ø-MMC3	1		MEMORY CONTROL, ADDRESS MUX	A
D-CS-M8618-Ø-MMC4	1		MEMORY CONTROL, ECC GEN/CHK	A
D-CS-M8618-Ø-MMC5	1		MEMORY CONTROL, ERROR CORRECTION	A
D-CS-M8618-Ø-MMC6	1		MEMORY CONTROL, MOS DATA	A
D-CS-M8618-Ø-MMC7	1		MEMORY CONTROL, OUPUT MIX	A
D-CS-M8618-Ø-MMC8	1		MEMORY CONTROL, ADDRESS MATCH	A
D-CS-M8618-Ø-MMC9	1		MEMORY CONTROL, REFRESH LOGIC	A
D-CS-M8618-Ø-MMCA	1		MEMORY CONTROL, CYCLE LOGIC	A
D-CS-M8618-Ø-MMCB	1		MEMORY CONTROL, WRITE LOGIC	A
D-CS-M8618-Ø-MMCC	1		MEMORY CONTROL, CLOCKS	A
D-CS-M8618-Ø-MMCD	1		MEMORY CONTROL, POWER GND, CAPS	A
E-MD-5013193-0-0	7		DRILL, WIRE & COMP SCREEN DRAWING	A
	-	5013193	MULTIWIRE BOARD	A
K-PC-M8618-Ø-DBC	1		MULTIWIRE DATA BASE	A
POO-M8618-ØØ	-		PROCESS SHEETS	REF

NOTES:

REVISIONS		
REV.	X	
CHG NO.	ORIG	
DATE	X	

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digital

USED ON OPTION/MODEL
KS1Ø

DRN.	J. Adelman	13-APR-78
CHK'D	Ed Counter	13Apr78
ENG.	Jack Adelman J.P.A. F/S Scott Taylor S.T.P.	20-APR-78
PROD.	W. Bishop	20Apr78

TITLE: MOS MEMORY CONTROL

SIZE	CODE	NUMBER	REV.
B	DD	M8618-Ø	A

SHEET 1 OF 1

MR

DRB 126

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0-45
0-53
45(QTY 12)
44
0-54
0-46
0-52
0-43
0-49
0-39
0-40
0-41
0-1
0-48
0-47
0-44
0-51
0-50
C-42

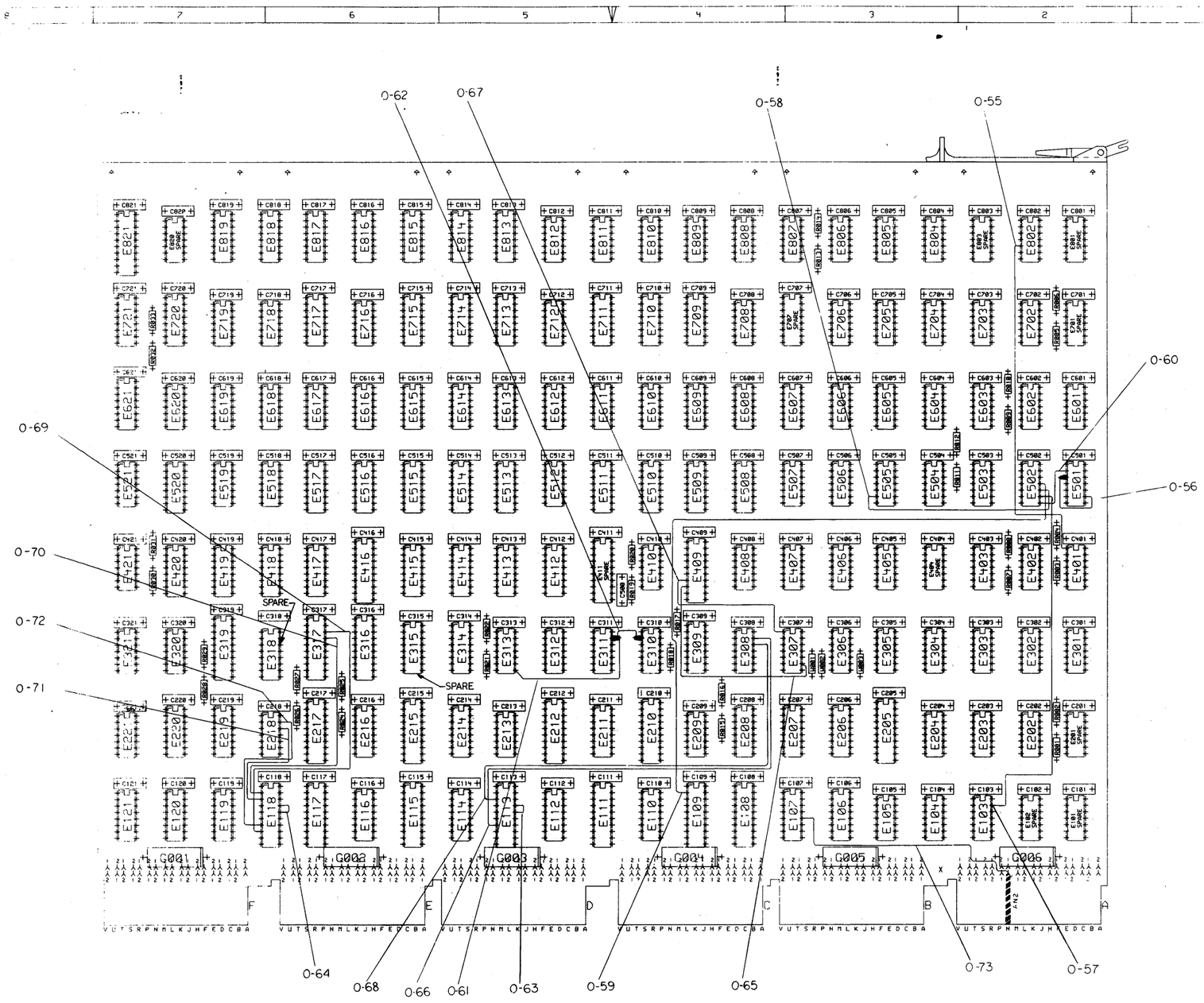
SPARE

C001 C002 C003 C004 C005 C006

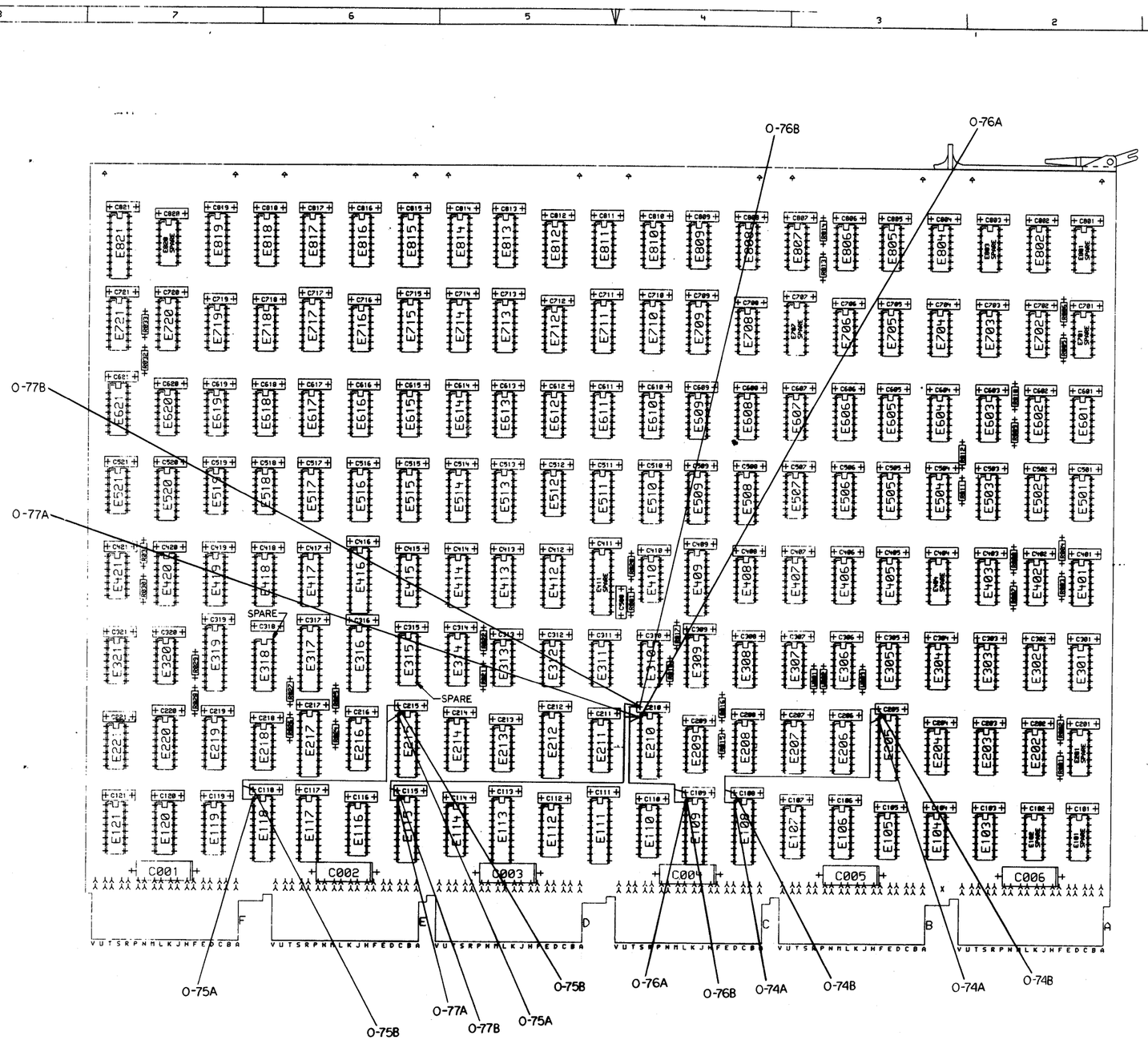
F E D C B A

V U T S R P N M L K J H F E D C B A

DIGITAL	DRN.	DATE	ENG.	DATE	TITLE: MEMORY CONTROL UNIT ASSEMBLY
UM8618.DRA4,640	CHK.		BOARD LOCATIONS		
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8618-0		SIZE: C	CODE / NUMBER: UM M8618-0-0	REV: A

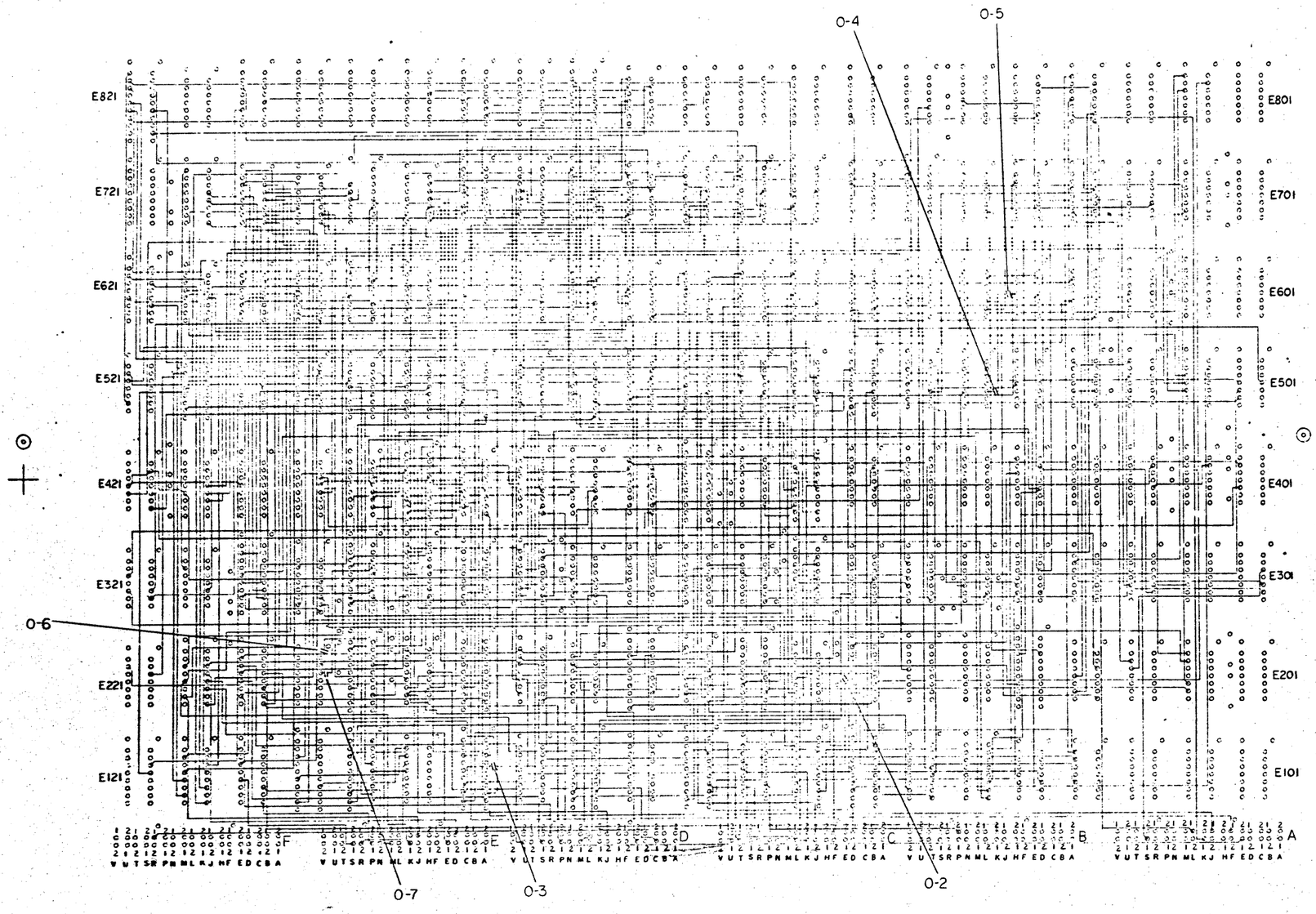


digital	DRN. t wilson	DATE 10-OCT-79	ENG.	DATE	TITLE: MEMORY CONTROL UNIT ASSEMBLY
	CHK'D. [illegible]	DATE 10/29/79	BOARD LOCATION:		
UM8618.DRW(4,6+0)			NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER REV.
FIRST USED ON OPTION/MODEL: K510			B-DD-M8618-0	E	UA M8618-0-0 A



MEMORY CONTROL UNIT ASSEMBLY

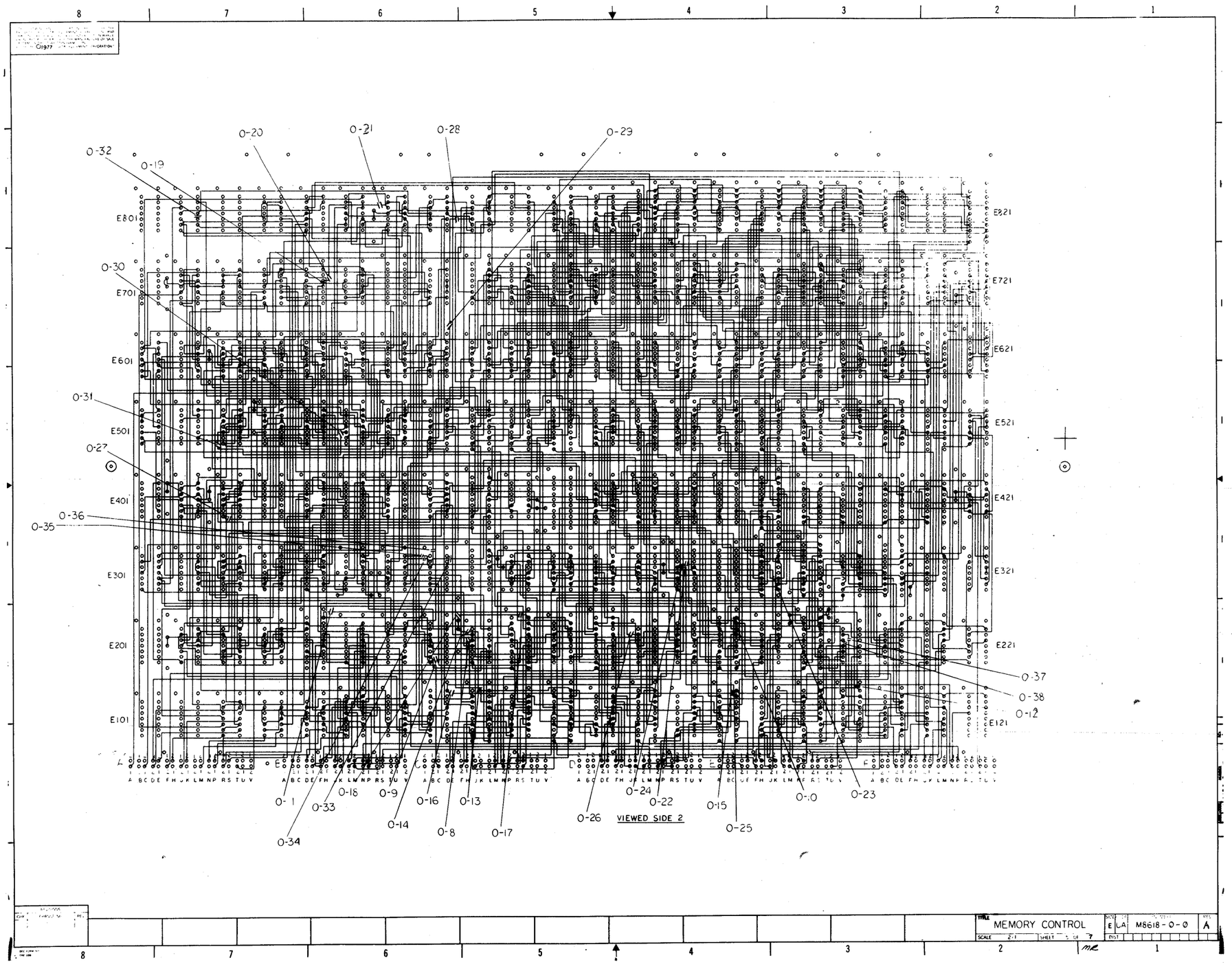
SIZE E | CODE | NUMBER UA IM8618-0-0 | REV. A



VIEWED SIDE 1

TITLE	SIZE	CODE	NUMBER	REV
MEMORY CONTROL	E	UA	M8618-Ø-Ø	A

8 7 6


0-32
0-19
0-20
0-21
0-28
0-29
E801
E821
0-30
E701
E721
E601
E621
0-31
E501
E521
0-27
E401
E421
0-36
0-35
E301
E321
E201
E221
0-37
0-38
0-12
E101
E121
0-1
0-33
0-34
0-18
0-9
0-16
0-13
0-14
0-8
0-17
0-24
0-22
0-26
VIEWED SIDE 2
0-15
0-25
0-10
0-23

| | | |

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E101 E201 E301 E401 E501 E601 E701 E801

E121 E221 E321 E421 E521 E621 E721 E821

A B C D E F H J K L M N P R S T U V

VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
MEMORY CONTROL	E	UA	M8618-0-0	A
SCALE 2/1	SHEET 6 OF 7	DIST		

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NOTES:
1. FOR DRAWING DIRECTORY, REFER TO : B-DD-M8618-0
2. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	+5V	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
I.C. DEC 8640	20	5/15
I.C. DEC 74LS377	20	10

3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON
4. MAXIUM COMPONENT HEIGHT IS .270
5. MAXIUM COMPONENT LEAD PROTRUSION IS .047
6. FINISHED HOLE SIZES ARE ; IN INCHES
   + = .037 ± .003
   ◇ = .133 ± .002, -.007
   X = .100 ± .003
   Δ = .085 + .003, -.006

REWORK INSTRUCTIONS

FIRST RELEASE

COMPONENT DELETES, SIDE #1, AS SHOWN
Ø-1 CUT OFF E2ØG (12) AND REMOVE FROM BOARD

ETCH CUTS, SIDE #1, AS SHOWN
Ø-2 AT E2Ø3(5)
Ø-3 AT ETCH RUNNING BETWEEN E11S(16 & 17)
Ø-4 AT E5Ø6(10)
Ø-5 AT E6Ø5(4)
Ø-6 AT ETCH ABOVE AND TO THE RIGHT OF E218(14)
Ø-7 AT E218(12)

ETCH CUTS, SIDE #2, AS SHOWN
Ø-8 AT E2Ø9(12)
Ø-9 AT E5Ø5(9)
Ø-10 AT E2Ø5(11)
Ø-11 AT E2Ø5(11)
Ø-12 AT E118(1)
Ø-13 AT E1Ø9(1)
Ø-14 AT ETCH RUNNING BETWEEN E2Ø9 13 & 14
Ø-15 AT E115(1)
Ø-16 AT E108(1)
Ø-17 AT E210(1)
Ø-18 AT PTH ABOVE AND TO THE RIGHT OF E2Ø8(1)
Ø-19 AT E7Ø5(9)
Ø-2Ø AT E7Ø5(3)
Ø-21 AT E8Ø7(13)
Ø-22 AT E314(13)
Ø-23 AT E316(7)
Ø-24 AT E314(13)
Ø-25 AT E115(2)
Ø-26 AT E213(13)
Ø-27 AT E4Ø3(8)
Ø-28 AT E8Ø9(12)
Ø-29 AT ETCH ABOVE AND TO THE RIGHT OF E6Ø8(1)
Ø-3Ø AT E5Ø6(10)
Ø-31 AT SECOND ETCH TO THE LEFT OF E5Ø3(8)
Ø-32 AT E8Ø2(5)
Ø-33 AT ETCH RUNNING BETWEEN E3Ø8(1&2)
Ø-34 AT E3Ø8(13)
Ø-35 AT ETCH TO THE LEFT OF E3Ø8(14)
Ø-36 AT ETCH ABOVE AND TO THE RIGHT OF E3Ø8(14)
Ø-37 AT E218(13)
Ø-38 AT E218(12)

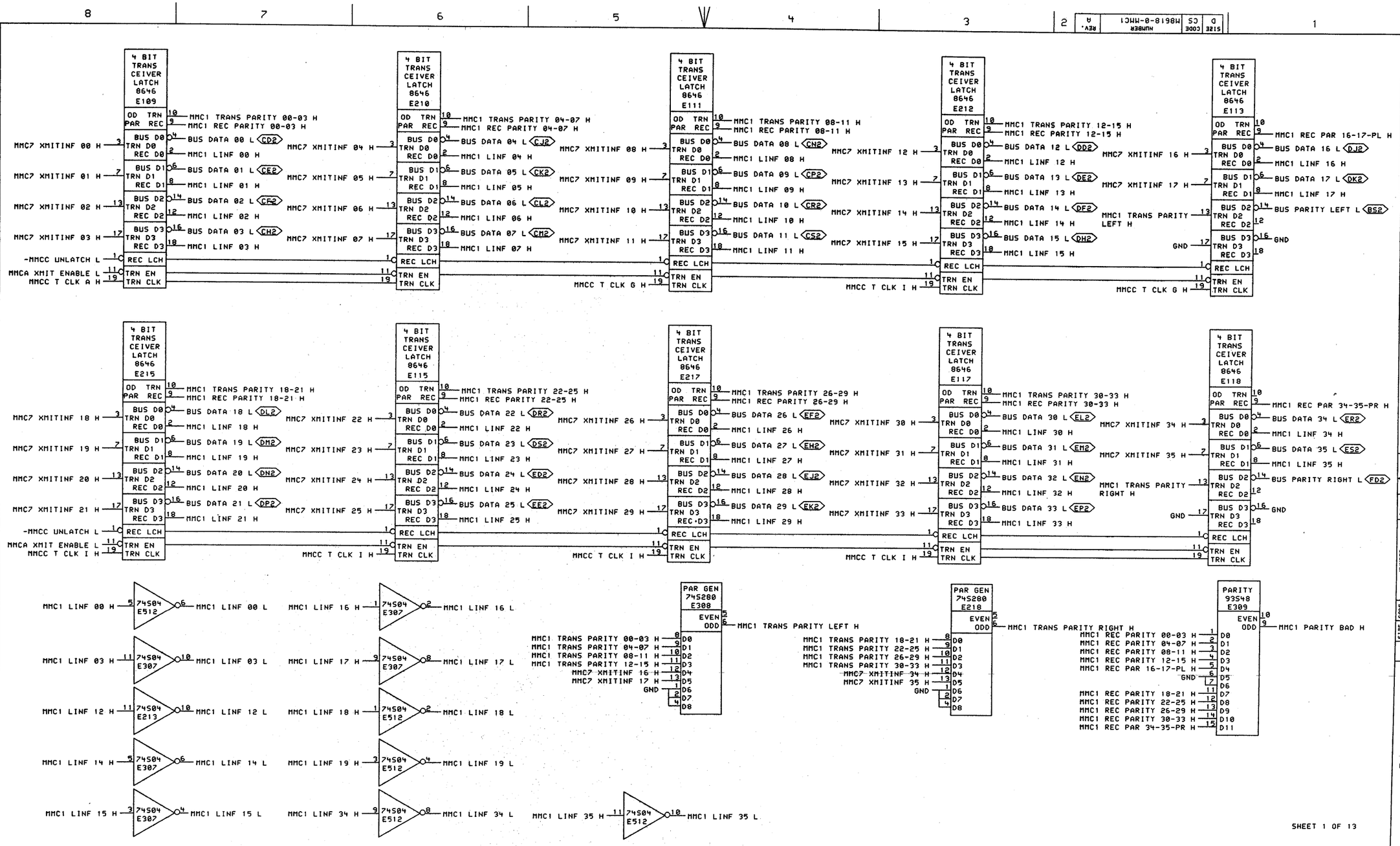
WIRE ADDS, SIDE #1, AS SHOWN
Ø-39 FROM E4Ø3(9) TO E213(13)
Ø-4Ø FROM E3Ø9(12) TO E5Ø5(10)
Ø-41 FROM E2Ø6(14) TO PTH OF E2Ø4(12)
Ø-42 FROM E214(12) TO E2Ø8(9)
Ø-43 FROM E4Ø9(10) TO E5Ø8(5)
Ø-44 FROM E2Ø8(9) TO TOP LEAD OF R15
Ø-45 FROM E7Ø5(3) TO E7Ø5(13)
Ø-46 FROM E8Ø7(13) TO E7Ø5(9)
Ø-47 FROM E314(13) TO E412(9)
Ø-48 FROM E115(2) TO E316(7)
Ø-49 LIFT LEG E420(4) AND ADD WIRE FROM LEG TO E420(5)
Ø-5Ø FROM E2Ø6(8) TO PTH BELOW E2Ø6(8)
Ø-51 FROM E2Ø6(9) TO PTH BELOW E2Ø4(7)
Ø-52 FROM E6Ø5(4) TO E5Ø3(10)
Ø-53 FROM E8Ø8(9) TO E8Ø9(10)
Ø-54 FROM E8Ø9(10) TO E5Ø6(10)
Ø-55 FROM E8Ø2(5) TO E4Ø1(1)
} SHT 1 OF 6

Ø-56 LIFT LEG OF E5Ø1(3) AND ADD WIRE FROM LEG TO E5Ø1(9)
Ø-57 FROM E5Ø2(9) TO E1Ø3(13)
Ø-58 FROM E5Ø2(10) TO E5Ø5(6)
Ø-59 FROM E5Ø2(11) TO E1Ø9(2)
Ø-6Ø FROM E5Ø2(8) TO E5Ø1(2)
Ø-61 LIFT LEG OF E311(13) AND ADD WIRE FROM LEG TO E313(8)
Ø-62 LIFT LEG OF E31Ø(2) AND ADD WIRE FROM LEG TO LEG OF E311(13)
Ø-63 FROM E113(17) TO E113(14)
O-64 FROM E118(17) TO E118(14)
Ø-65 FROM E3Ø7(9) TO E4Ø9(8)
Ø-66 FROM E3Ø8(13) TO E113(7)
Ø-67 FROM E3Ø7(1) TO E4Ø9(7)
Ø-68 FROM E3Ø8(12) TO E113(3)
Ø-69 FROM E118(8) TO E317(18)
Ø-7Ø FROM E118(3) TO E317(17)
Ø-71 FROM E218(12) TO E118(3)
Ø-72 FROM E218(13) TO E118(7)
O-73 FROM E1Ø7(12) TO PTH OF FINGER PIN AN2
} SHT 2 OF 6

TWISTED PAIR WIRE ADDS, SIDE #1, AS SHOWN:
Ø-74 A. WHT FROM E108(1) TO E205(1)
B. GRN FROM LEFT LEG OF C1Ø8 TO LEFT LEG OF C2Ø5
Ø-75 A. WHT FROM E118(1) TO E215(1)
B. GRN FROM LEFT LEG OF C118 TO LEFT LEG OF C215
Ø-76 A. WHT FROM E216(1) TO E109(1)
B. GRN FROM LEFT LEG C21Ø TO LEFT LEG OF C1Ø9
Ø-77 A. WHT FROM E216(1) TO E115(1)
B. GRN FROM LEFT LEG OF C21Ø TO LEFT LEG OF C115
} SHT 3 OF 6

REVISIONS			
CHK	CHANGE NO.	REV.	

TITLE	SIZE	CODE	NUMBER	REV.
MEMORY CONTROL	E	UA	M8618-0-0	A
SCALE	SHEET 7 OF 7		DIST.	



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REVISIONS

CHK	CHANGE NO.	REV

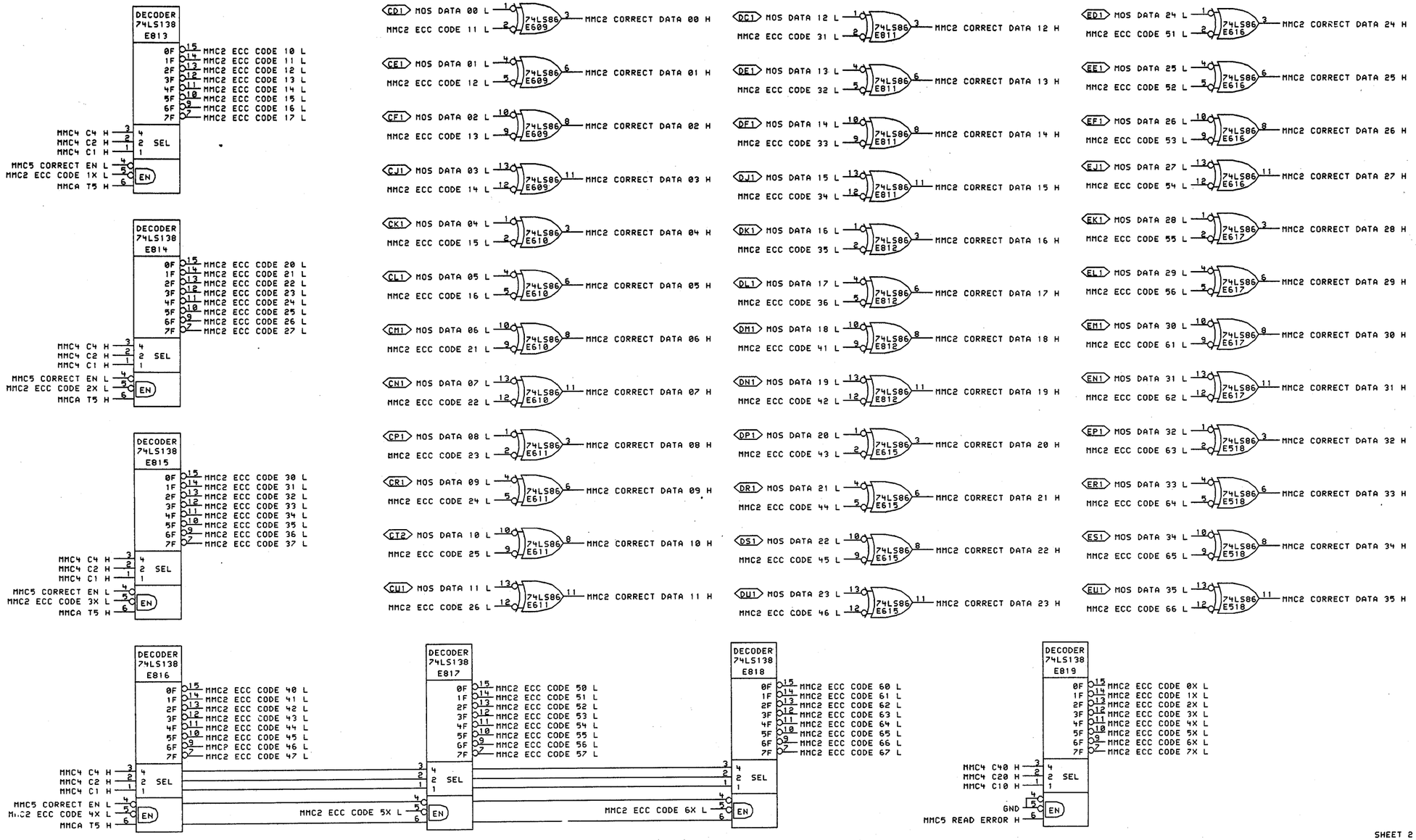
digital

DRN. D.Toomey DATE 12-APR-78
CHK'D. DATE 12-APR-78
ENG. DATE 28-APR-78
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC1.DRW[4,647] 12-APR-78 13:32
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8618-0

TITLE: MEMORY CONTROL SM10 BUS

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC1	A

REV. A
NUMBER M8618-0-MMC1
CODE CS
SIZE D



SHEET 2 OF 13

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REVISIONS		
CHK	LHANGE NO.	REV

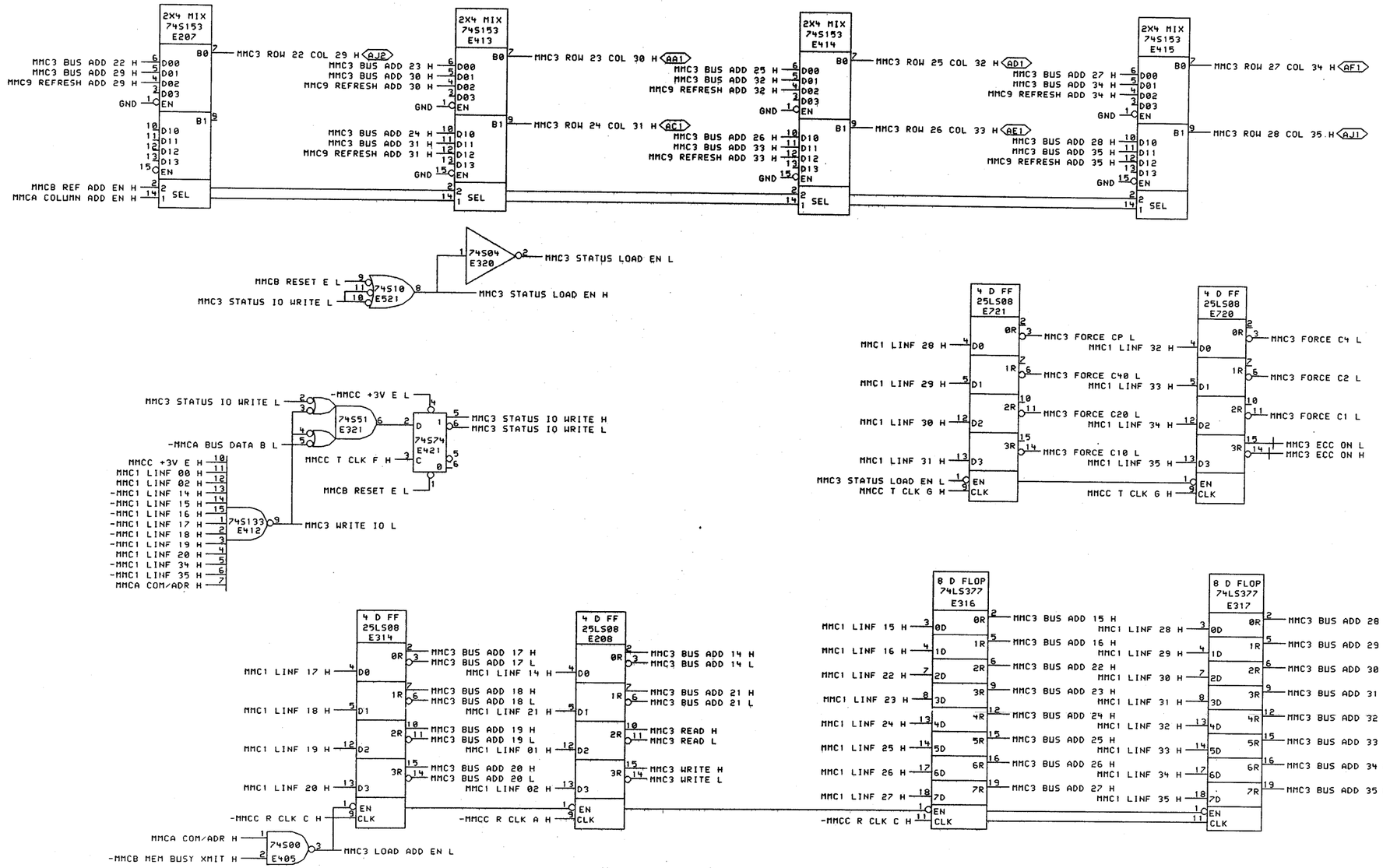
digital

DRN D. Toomey DATE 12-APR-78
CHK'D Ted Nelson DATE 12-APR-78
ENG. Ted Nelson 10%/A STP DATE 20-APR-78
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC2.DRW[4,647] 12-APR-78 13:34
NEXT HIGHER ASSEMBLY: B-DD-M8618-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: MEMORY CONTROL ERROR CORRECTION

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC2	A

mr



SHEET 3 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

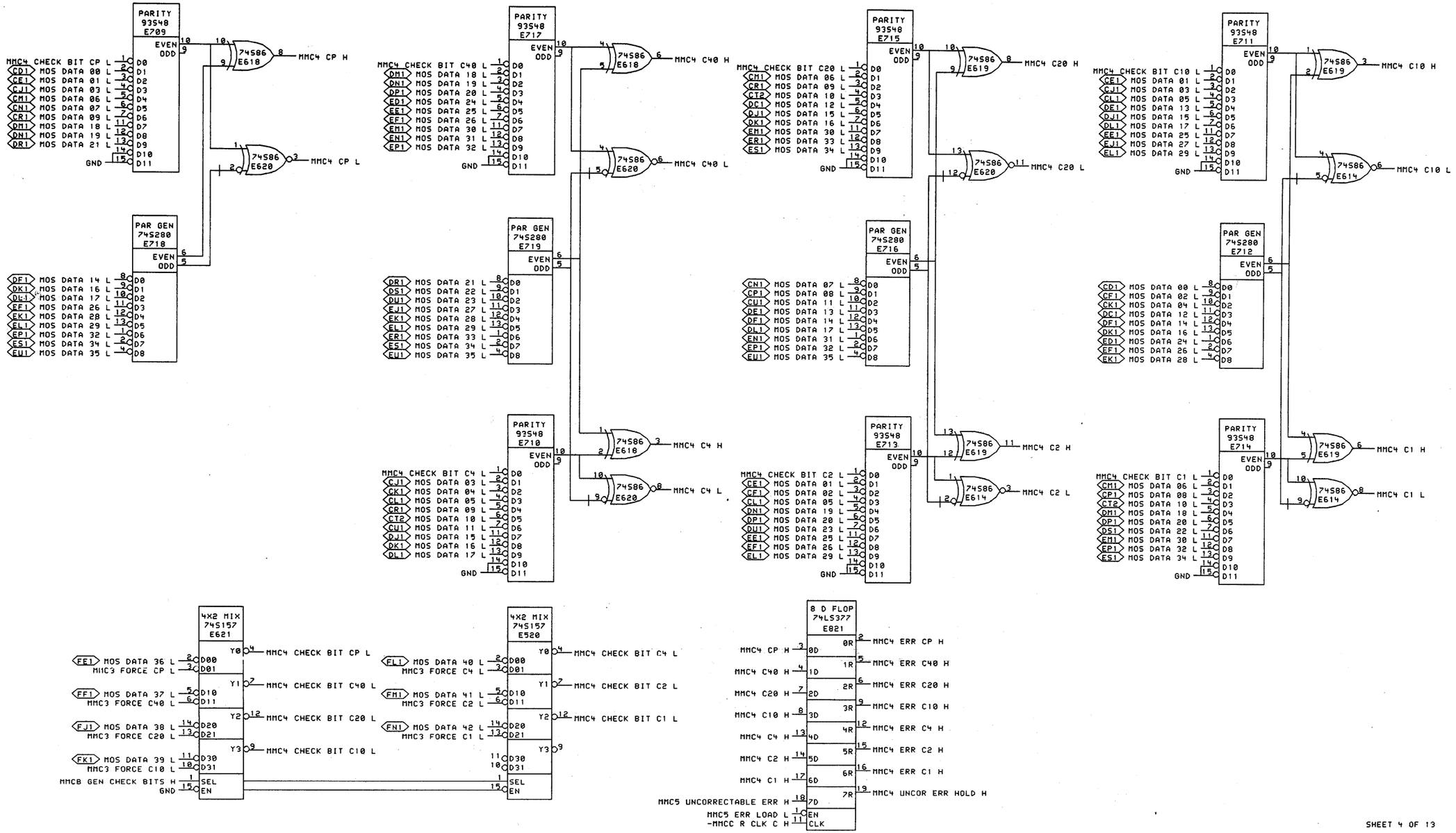
digital

DRN. S. Toomey — DATE 12-APR-78 — ENG. — DATE
CHK D. — DATE — BOARD LOCATION: 1AF09
SHEET 1 OF 1

MMC3.DRW[4,647] 12-APR-78 13:35 — NEXT HIGHER ASSEMBLY: B-DD-M8618-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: MEMORY CONTROL ADDRESS MUX

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC3	A



SHEET 4 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

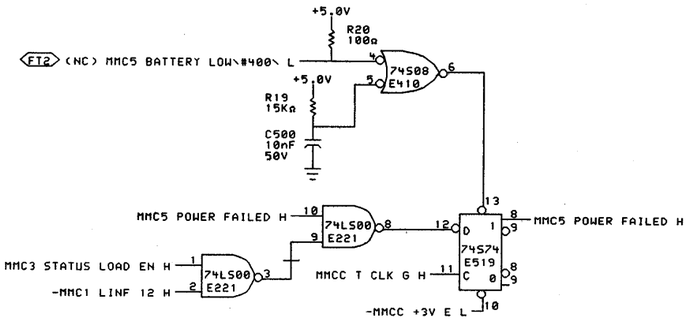
digital

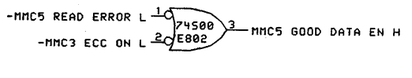
DRN. S. Toomey — DATE 12-APR-78 — ENG. — DATE
CHK'D. — DATE — BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC4.DRW[4,647] 12-APR-78 13:37
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8618-0

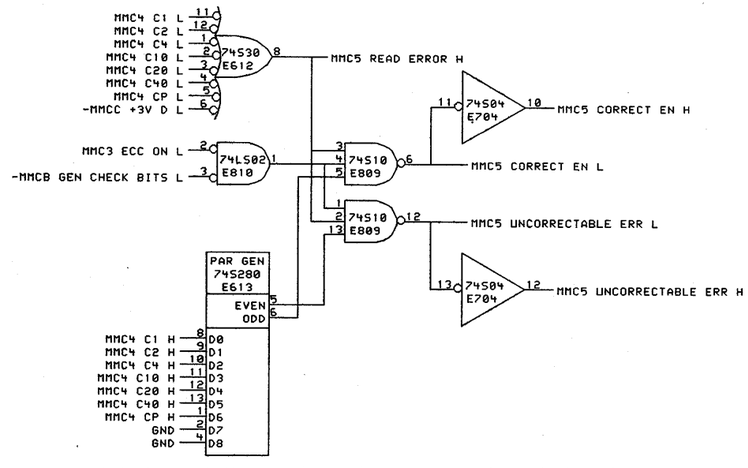
TITLE: MEMORY CONTROL ECC GEN/CHK

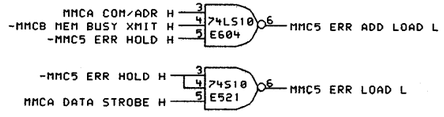
SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC4	A

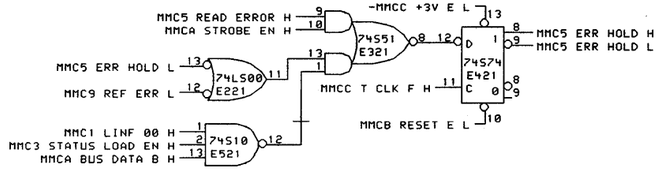
SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC5	A











SHEET 5 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

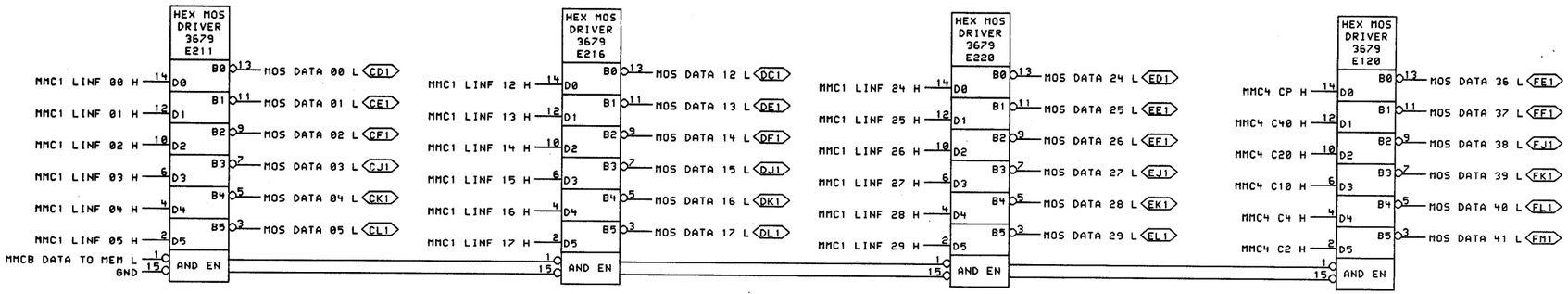
digital

DRN. J. Boothby DATE 13-APR-78
CHK "D." DATE 8/17/78
ENG. DATE
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC5.DRW[4,647] 13-APR-78 16:59
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8618-0

TITLE: MEMORY CONTROL ERROR CORRECTION

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC5	A

MR



SHEET 6 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. Toomey 24-APR-78 | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION: 1AF09
SHEET 1 OF 1

MMC6.DRW[4,647] 24-APR-78 14:47 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8618-0

TITLE: MEMORY CONTROL MOS DATA

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC6	A

VERSATEC SUDSVP V4.1 25-APR-78 08:48:21 MMC6.VP7

KNIGHT, PS:<M8618>MMC6.DPL.1, SCALE 2, "D" RELEASE BOX

MMCC +3V E H
MMC1 LINF 00 H
MMC1 LINF 01 H
-MMC1 LINF 14 H
-MMC1 LINF 15 H
-MMC1 LINF 16 H
-MMC1 LINF 17 H
-MMC1 LINF 18 H
-MMC1 LINF 19 H
MMC1 LINF 20 H
-MMC1 LINF 34 H
-MMC1 LINF 35 H
MMCA COM/ADR H
74S133 E318
MMC7 READ IO L
-MMCC +3V E L
74S74 E519
MMCC T CLK G H
MMCB RESET E L
MMC7 READ STATUS H
MMC7 READ STATUS L

MMCA STROBE EN L
MMC7 READ STATUS L
74S00 E304
-MMCC +3V E L
74S74 E202
MMCC T CLK A H
MMCB RESET A L
MMC7 STATUS OR DATA L

-MMC1 LINF 00 L
-MMCA CA CYC SEEN L
MMCA SET CA CYC L
74LS27 E502
MMC1 PARITY BAD H
MMC3 STATUS LOAD EN H
MMC1 LINF 03 H
MMCA BUS DATA B H
MMC1 PARITY BAD H
MMC7 PARITY ERR H
MMC7 STATUS OR DATA L
MMCB WR DATA L
MMC7 READ IO L
MMC3 WRITE IO L
74S20 E401
74S64 E501
MMC3 STATUS LOAD EN H
-MMC1 LINF 03 H
MMCA BUS DATA H
74S10 E601
-MMCC +3V C L
74S74 E608
MMCC T CLK D H
MMCB RESET D L
74S04 E307
MMC7 PARITY ERR H
MMC7 PARITY ERR L
MMC7 MEM PARITY ERR L DT2

4X2 MIX 74S157 E508
MMC5 ERR HOLD H
MMC2 CORRECT DATA 00 H
MMC4 UNCOR ERR HOLD H
MMC2 CORRECT DATA 01 H
MMC9 REF ERR H
MMC2 CORRECT DATA 02 H
MMC7 PARITY ERR H
MMC2 CORRECT DATA 03 H
-MMC7 READ STATUS H
GND
MMC7 XMITINF 00 H
MMC7 XMITINF 01 H
MMC7 XMITINF 02 H
MMC7 XMITINF 03 H

4X2 MIX 74S157 E509
MMC3 ECC ON H
MMC2 CORRECT DATA 04 H
MMC4 ERR CP H
MMC2 CORRECT DATA 05 H
MMC4 ERR C40 H
MMC2 CORRECT DATA 06 H
MMC4 ERR C20 H
MMC2 CORRECT DATA 07 H
MMC7 XMITINF 04 H
MMC7 XMITINF 05 H
MMC7 XMITINF 06 H
MMC7 XMITINF 07 H

4X2 MIX 74S157 E510
MMC4 ERR C10 H
MMC2 CORRECT DATA 08 H
MMC4 ERR C4 H
MMC2 CORRECT DATA 09 H
MMC4 ERR C2 H
MMC2 CORRECT DATA 10 H
MMC4 ERR C1 H
MMC2 CORRECT DATA 11 H
MMC7 XMITINF 08 H
MMC7 XMITINF 09 H
MMC7 XMITINF 10 H
MMC7 XMITINF 11 H

4X2 MIX 74S157 E511
MMC5 POWER FAILED H
MMC2 CORRECT DATA 12 H
GND
MMC2 CORRECT DATA 13 H
MMC8 ERR ADDR 14 H
MMC2 CORRECT DATA 14 H
MMC8 ERR ADDR 15 H
MMC2 CORRECT DATA 15 H
MMC7 XMITINF 12 H
MMC7 XMITINF 13 H
MMC7 XMITINF 14 H
MMC7 XMITINF 15 H

4X2 MIX 74S157 E513
MMC8 ERR ADDR 16 H
MMC2 CORRECT DATA 16 H
MMC8 ERR ADDR 17 H
MMC2 CORRECT DATA 17 H
MMC8 ERR ADDR 18 H
MMC2 CORRECT DATA 18 H
MMC8 ERR ADDR 19 H
MMC2 CORRECT DATA 19 H
MMC7 XMITINF 16 H
MMC7 XMITINF 17 H
MMC7 XMITINF 18 H
MMC7 XMITINF 19 H

4X2 MIX 74S157 E514
MMC2 CORRECT DATA 20 H
MMC8 ERR ADDR 20 H
MMC2 CORRECT DATA 21 H
MMC8 ERR ADDR 21 H
MMC2 CORRECT DATA 22 H
MMC8 ERR ADDR 22 H
MMC2 CORRECT DATA 23 H
MMC8 ERR ADDR 23 H
MMC7 READ STATUS H
GND
MMC7 XMITINF 20 H
MMC7 XMITINF 21 H
MMC7 XMITINF 22 H
MMC7 XMITINF 23 H

4X2 MIX 74S157 E515
MMC2 CORRECT DATA 24 H
MMC8 ERR ADDR 24 H
MMC2 CORRECT DATA 25 H
MMC8 ERR ADDR 25 H
MMC2 CORRECT DATA 26 H
MMC8 ERR ADDR 26 H
MMC2 CORRECT DATA 27 H
MMC8 ERR ADDR 27 H
MMC7 XMITINF 24 H
MMC7 XMITINF 25 H
MMC7 XMITINF 26 H
MMC7 XMITINF 27 H

4X2 MIX 74S157 E516
MMC2 CORRECT DATA 28 H
MMC8 ERR ADDR 28 H
MMC2 CORRECT DATA 29 H
MMC8 ERR ADDR 29 H
MMC2 CORRECT DATA 30 H
MMC8 ERR ADDR 30 H
MMC2 CORRECT DATA 31 H
MMC8 ERR ADDR 31 H
MMC7 XMITINF 28 H
MMC7 XMITINF 29 H
MMC7 XMITINF 30 H
MMC7 XMITINF 31 H

4X2 MIX 74S157 E517
MMC2 CORRECT DATA 32 H
MMC8 ERR ADDR 32 H
MMC2 CORRECT DATA 33 H
MMC8 ERR ADDR 33 H
MMC2 CORRECT DATA 34 H
MMC8 ERR ADDR 34 H
MMC2 CORRECT DATA 35 H
MMC8 ERR ADDR 35 H
MMC7 XMITINF 32 H
MMC7 XMITINF 33 H
MMC7 XMITINF 34 H
MMC7 XMITINF 35 H

SHEET 7 OF 13

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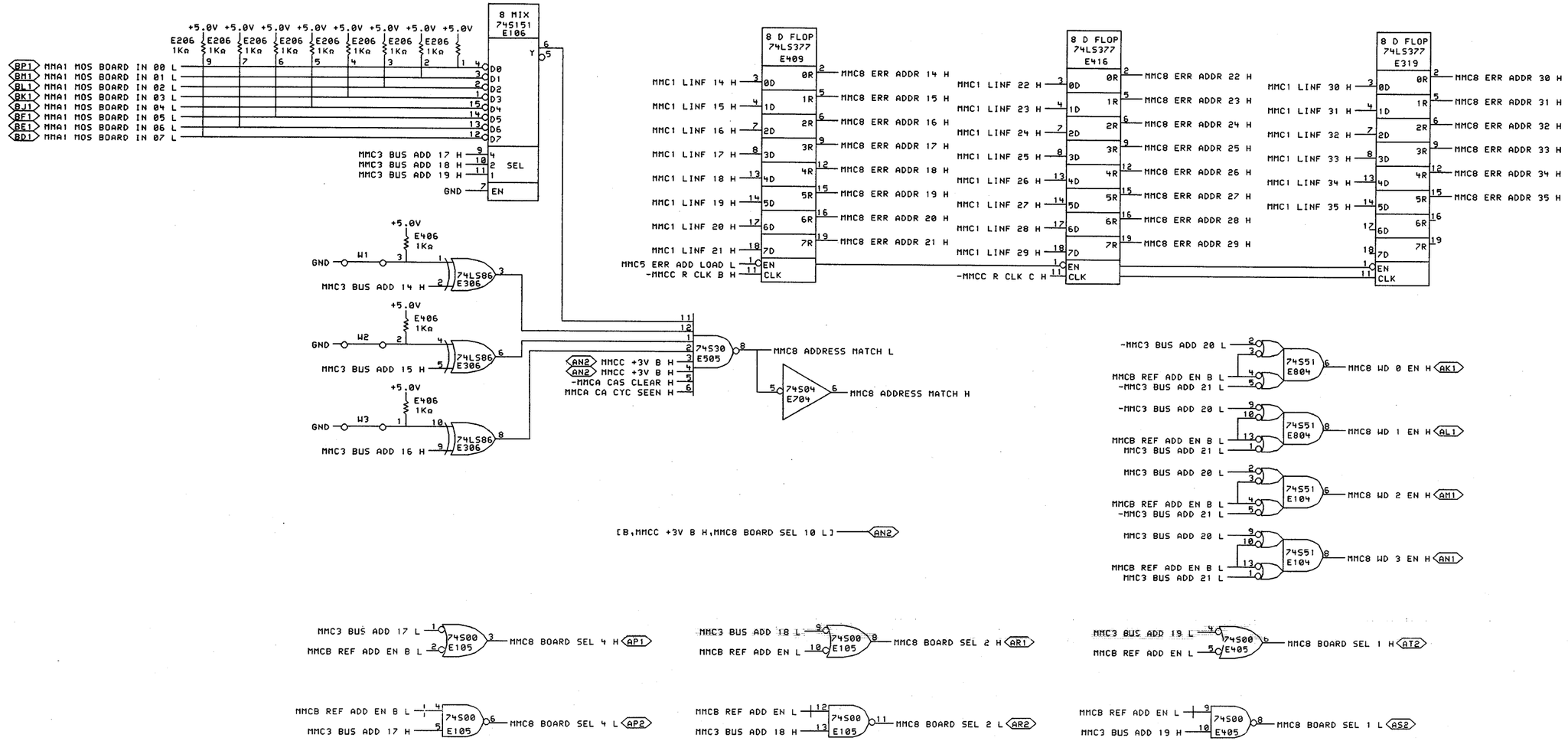
CHK	CHANGE NO.	REV

digital

DRN D. Toomy DATE 26-APR-78 ENG DATE
CHK D. DATE
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC7.DRW[4,647] 25-APR-78 09:39 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8618-0

TITLE: MEMORY CONTROL OUTPUT MIX

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC7	A



SHEET 8 OF 13

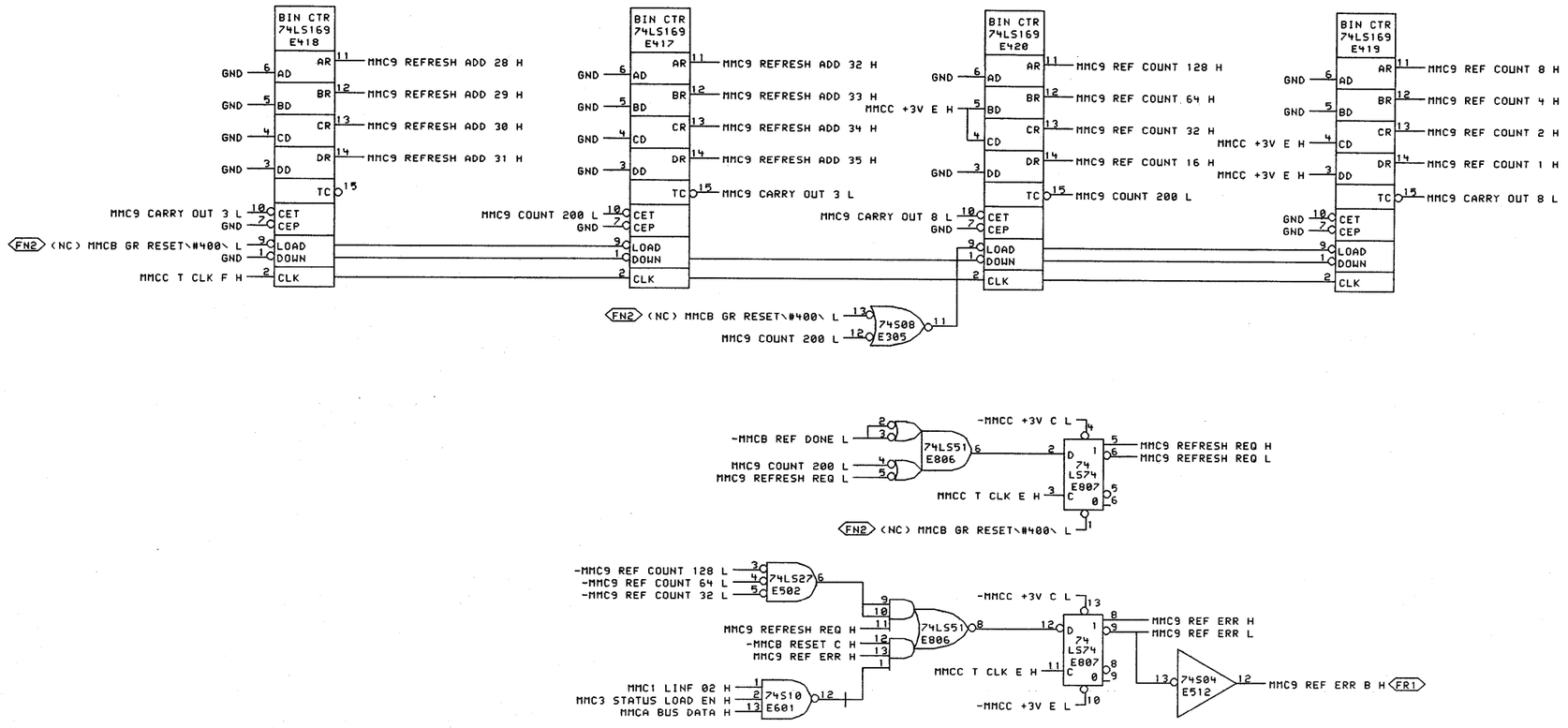
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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN J. Toomy 12-APR-78 | ENG: 20 APR 78 | TITLE: MEMORY CONTROL ADDRESS MATCH
CHK D. Wood | BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMC8.DRW[4,647] 12-APR-78 13:46 | NEXT HIGHER ASSEMBLY: B-DD-M8618-0
FIRST USED ON OPTION/MODEL: KS10

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC8	A



SHEET 9 OF 13

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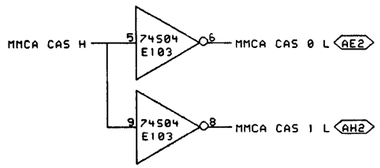
REVISIONS		
CHK	CHANGE NO.	REV

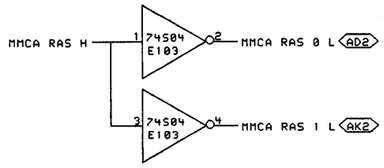
digital

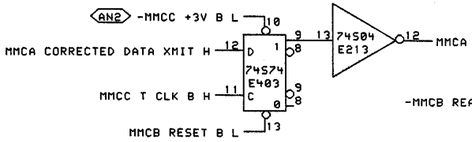
DRN D.Toomey | DATE 12-APR-78 | ENG | DATE
CHK *D | DATE | BOARD LOCATION: 1AF09
MMC9.DRW[4,647] | 12-APR-78 13:47 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8618-0

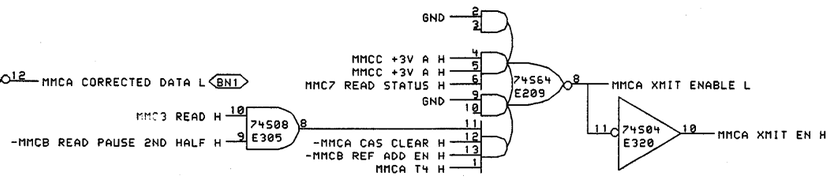
TITLE: MEMORY CONTROL REFRESH LOGIC

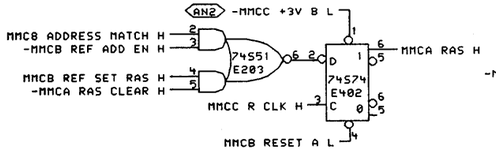
SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMC9	A

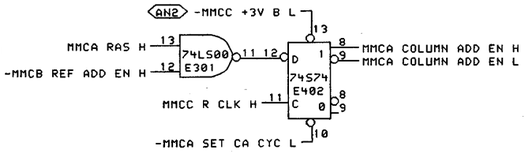


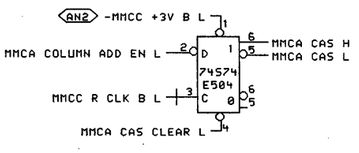


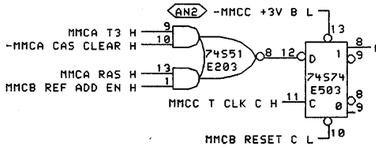


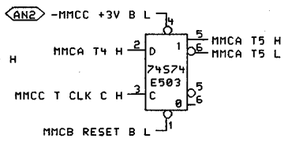


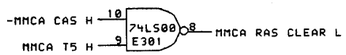


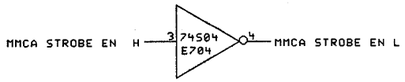


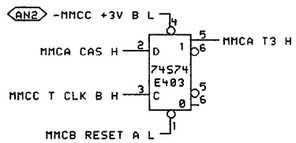


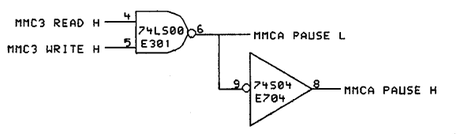


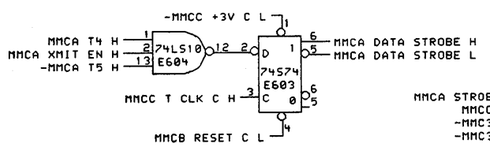


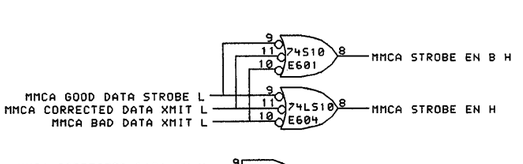


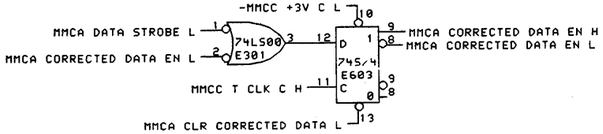


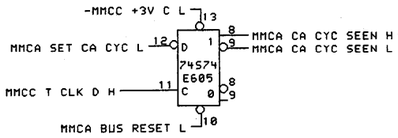


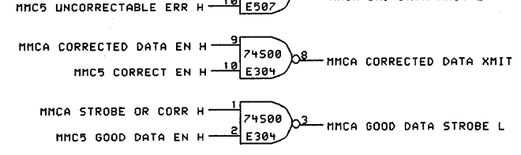


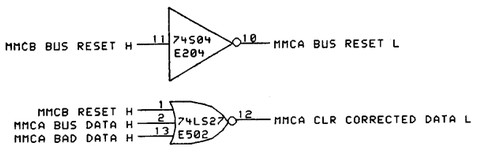


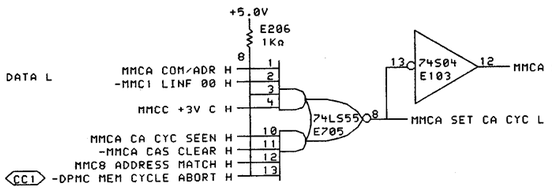


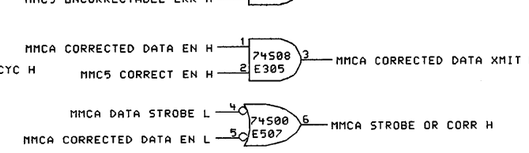


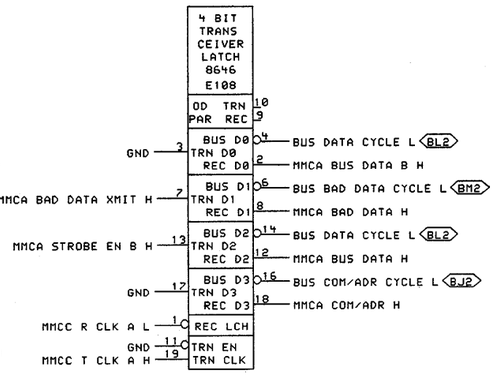












SHEET 10 OF 13

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REVISIONS

CHK	CHANGE NO.	REV

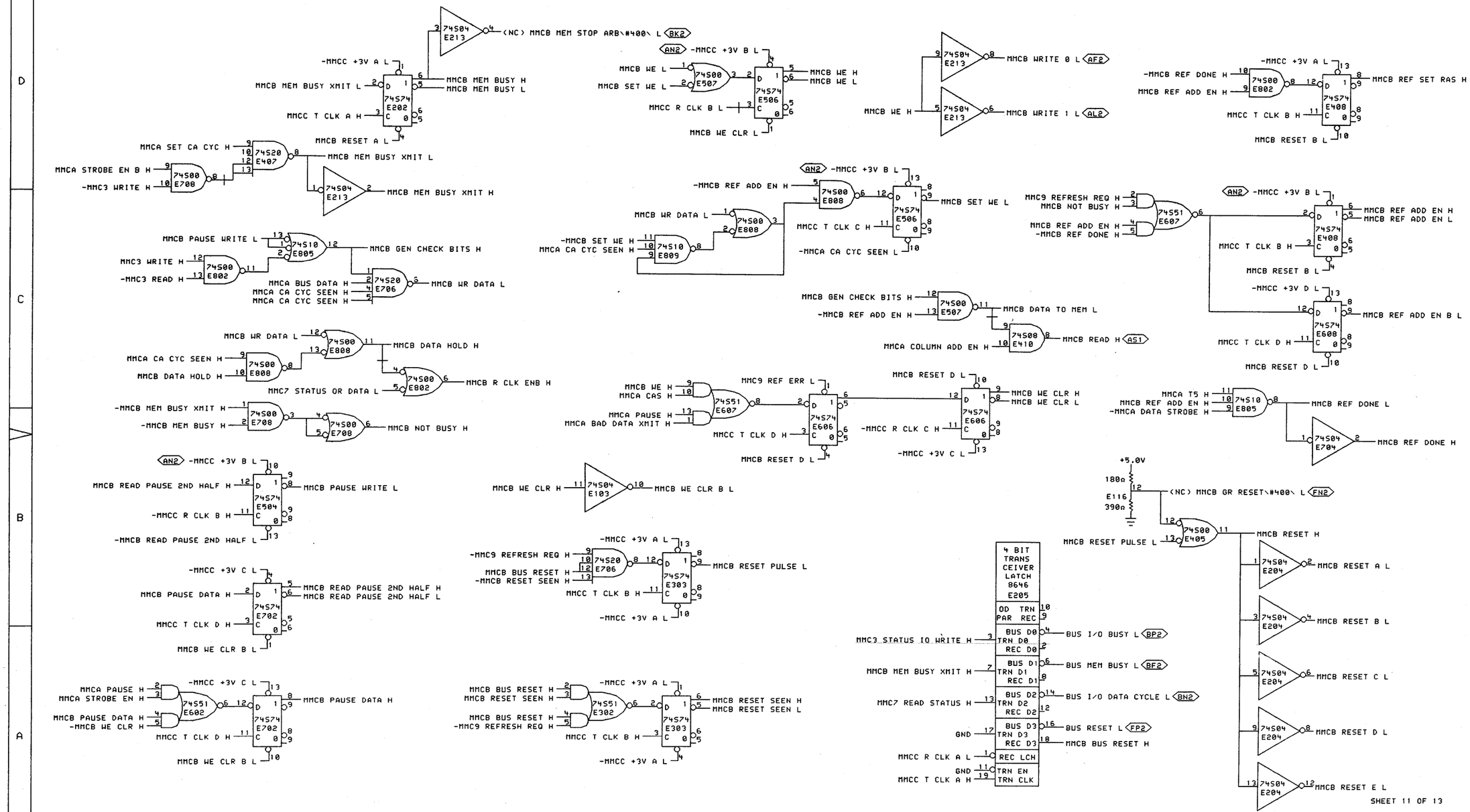
digital

DRN D. Toomey DATE 13-APR-78 ENG. DATE
CHK DATE BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMCA.DRW[4,647] 13-APR-78 16:56 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8618-0

TITLE: MEMORY CONTROL CYCLE LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMCA	A

SIZE D | CODE CS | NUMBER M8618-0-MMCA | REV. A



SHEET 11 OF 13

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REVISIONS

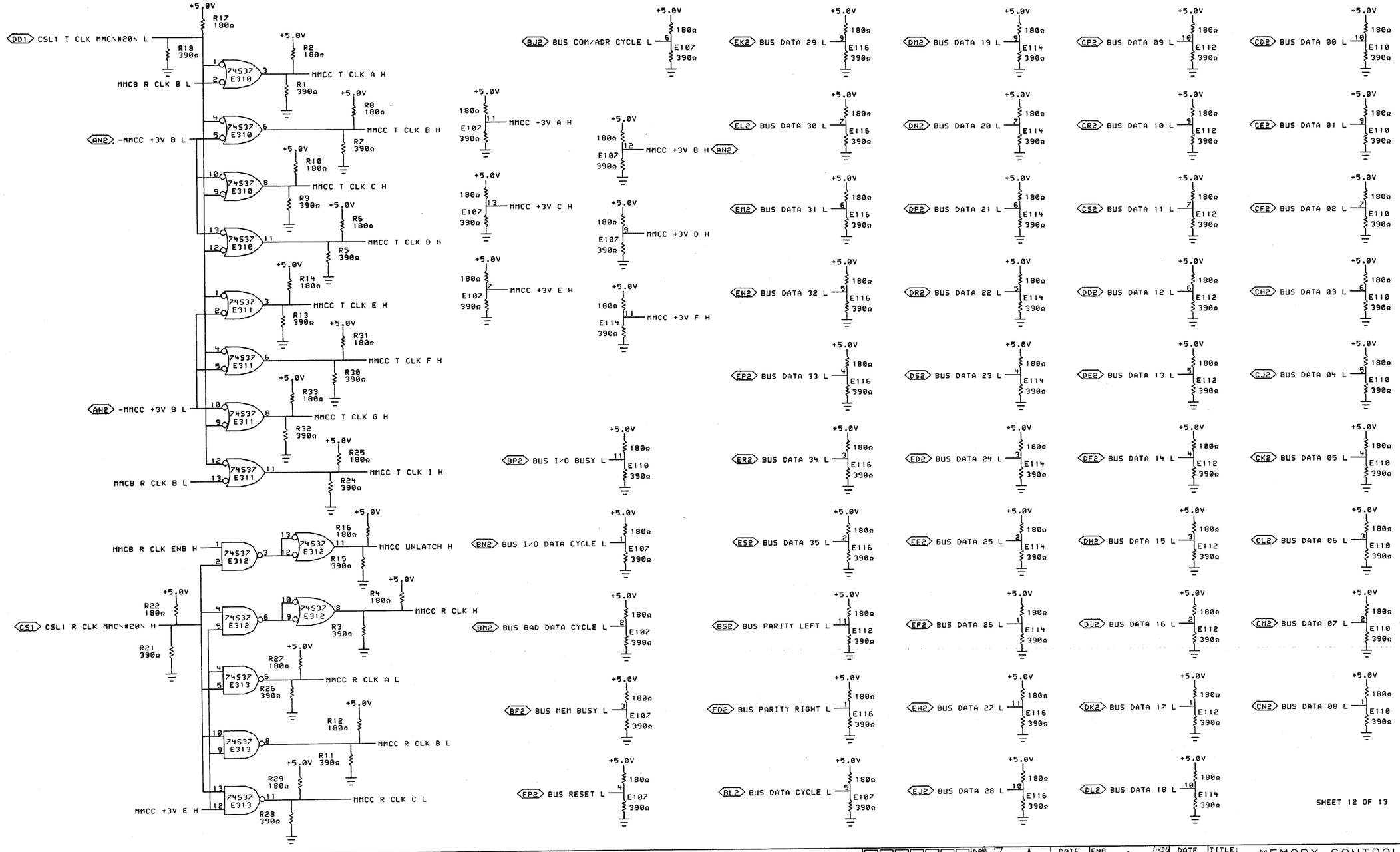
CHK	CHANGE NO.	REV

digital

DRW. D.Toomey 13-APR-78
CHK'D. 13-APR-78
ENG. 13-APR-78
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMCB.DRW[4,647] 10-APR-78 16:53
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-DD-M8618-0

TITLE: MEMORY CONTROL WRITE LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMCB	A



SIZE D | CODE CS | NUMBER M8618-0-MMCC | REV. A

SHEET 12 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. J. Loomby | DATE 13-APR-78 | ENG. | DATE
CHK'D | DATE | BOARD LOCATION: 1AF09
MMCC.DRW[4,647] 13-APR-78 16:50 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8618-0

TITLE: MEMORY CONTROL CLOCKS

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMCC	A

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMCD	A

+5.0V\V\ GND TTL\G#18\

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C113 10nF 50V	C114 10nF 50V	C115 10nF 50V	C116 10nF 50V	C117 10nF 50V	C118 10nF 50V	C119 10nF 50V	C120 10nF 50V				
C121 10nF 50V	C201 10nF 50V	C202 10nF 50V	C203 10nF 50V	C204 10nF 50V	C205 10nF 50V	C206 10nF 50V	C207 10nF 50V	C208 10nF 50V	C209 10nF 50V	C210 10nF 50V	C211 10nF 50V
C212 10nF 50V	C213 10nF 50V	C214 10nF 50V	C215 10nF 50V	C216 10nF 50V	C217 10nF 50V	C218 10nF 50V	C219 10nF 50V				
C220 10nF 50V	C221 10nF 50V	C301 10nF 50V	C302 10nF 50V	C303 10nF 50V	C304 10nF 50V	C305 10nF 50V	C306 10nF 50V	C307 10nF 50V	C308 10nF 50V	C309 10nF 50V	C310 10nF 50V
C311 10nF 50V	C312 10nF 50V	C313 10nF 50V	C314 10nF 50V	C315 10nF 50V	C316 10nF 50V	C317 10nF 50V	C318 10nF 50V				
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C418 10nF 50V	C419 10nF 50V	C420 10nF 50V	C421 10nF 50V	C501 10nF 50V	C502 10nF 50V	C503 10nF 50V	C504 10nF 50V	C505 10nF 50V	C506 10nF 50V	C507 10nF 50V	C508 10nF 50V
C509 10nF 50V	C510 10nF 50V	C511 10nF 50V	C512 10nF 50V	C513 10nF 50V	C514 10nF 50V	C515 10nF 50V	C516 10nF 50V				
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C707 10nF 50V	C708 10nF 50V	C709 10nF 50V	C710 10nF 50V	C711 10nF 50V	C712 10nF 50V	C713 10nF 50V	C714 10nF 50V				
C715 10nF 50V	C716 10nF 50V	C717 10nF 50V	C718 10nF 50V	C719 10nF 50V	C720 10nF 50V	C721 10nF 50V	C801 10nF 50V	C802 10nF 50V	C803 10nF 50V	C804 10nF 50V	C805 10nF 50V
C806 10nF 50V	C807 10nF 50V	C808 10nF 50V	C809 10nF 50V	C810 10nF 50V	C811 10nF 50V	C812 10nF 50V	C813 10nF 50V				
C814 10nF 50V	C815 10nF 50V	C816 10nF 50V	C817 10nF 50V	C818 10nF 50V	C819 10nF 50V	C820 10nF 50V	C821 10nF 50V	C1 68µF 15V	C2 68µF 15V	C3 68µF 15V	C4 68µF 15V
C5 68µF 15V	C6 68µF 15V										

GND TTL

GND

CT1 — [B,GND,GND CLK \G#20\]

DC2 — [B,GND,GND CLK \G#20\]

AB1 — NC	AB2 — NC	AM2 — NC	AU1 — NC	AU2 — NC	AV2 — NC	BA1 — NC	BB1 — NC	BB2 — NC	BC1 — NC	BD2 — NC	BE2 — NC
BH2 — NC	BR1 — NC	BR2 — NC	BS1 — NC								
BT2 — NC	BU1 — NC	BU2 — NC	BV2 — NC	CA1 — NC	CB1 — NC	CB2 — NC	CU2 — NC	CV2 — NC	DA1 — NC	DB1 — NC	DB2 — NC
DU2 — NC	DV2 — NC	EA1 — NC	EB1 — NC	EB2 — NC	EC1 — NC	ET2 — NC	EU2 — NC	EV2 — NC			
FA1 — NC	FB1 — NC	FB2 — NC	FC1 — NC	FD1 — NC	FE2 — NC	FF2 — NC	FH2 — NC	FJ2 — NC	FK2 — NC	FL2 — NC	FM2 — NC
FP1 — NC	FR2 — NC	FS1 — NC	FS2 — NC	FU1 — NC	FU2 — NC	FV2 — NC					

SHEET 13 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D. Toomy — DATE 13-APR-78
CHK D. — DATE
ENG — DATE
BOARD LOCATION: 1AF09
SHEET 1 OF 1
MMCD.DRW[4,647] 12-APR-78 14:37
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8618-0 — 2

TITLE: MEMORY CONTROL CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8618-0-MMCD	A

SIZE	CODE	NUMBER	REV.
B	DD	M8619-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8619-Ø-Ø	8		KS1Ø UNIBUS ADAPTER	A
K-PL-M8619-Ø-DBP	3		PARTS LIST DATA BASE (M8619)	A
D-CS-M8619-Ø-UBA1	1		UNIBUS ADAPTER, UNIBUS ARB	A
D-CS-M8619-Ø-UBA2	1		UNIBUS ADAPTER, UNIBUS CONTROL	A
D-CS-M8619-Ø-UBA3	1		UNIBUS ADAPTER, INTERRUPT	A
D-CS-M8619-Ø-UBA4	1		UNIBUS ADAPTER, I/O RD & WRT	A
D-CS-M8619-Ø-UBA5	1		UNIBUS ADAPTER, NPR CONTROL	A
D-CS-M8619-Ø-UBA6	1		UNIBUS ADAPTER, KS1Ø BUS REQ	A
D-CS-M8619-Ø-UBA7	1		UNIBUS ADAPTER, FAST MODE LOGIC	A
D-CS-M8619-Ø-UBA8	1		UNIBUS ADAPTER, DATA PATH 1	A
D-CS-M8619-Ø-UBA9	1		UNIBUS ADAPTER, DATA PATH 2	A
D-CS-M8619-Ø-UBAA	1		UNIBUS ADAPTER, DATA PATH 3	A
D-CS-M8619-Ø-UBAB	1		UNIBUS ADAPTER, DATA PATH 4	A
D-CS-M8619-Ø-UBAC	1		UNIBUS ADAPTER, DATA PATH 5	A
D-CS-M8619-Ø-UBAD	1		UNIBUS ADAPTER, TERMINATION	A
D-CS-M8619-Ø-UBAE	1		UNIBUS ADAPTER, UNIBUS CONN	A
D-CS-M8619-Ø-UBAF	1		UNIBUS ADAPTER, +5.ØV CAPS	A
D-CS-M8619-Ø-UBAH	1		UNIBUS ADAPTER, POWER, GND PINS	A
E-MD-5013194-0-0	7		DRILL, WIRE & COMP SCREEN DRAWING	A
		5013194	MULTIWIRE BOARD	A
K-PC-M8619-Ø-DBC	-		MULTIWIRE DATA BASE (M8619)	A
POO-M8619-ØØ			PROCESS SHEETS	REF

NOTES:

REVISIONS	
REV.	X
CHG NO.	ORIG
DATE	X

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digital

USED ON OPTION/MODEL
KS1Ø

DRN.	R W Counter	22 Mar 78
CHK'D	R W Counter	22 Mar 78
ENG.	F. Voll	14-Apr-78
PROD.	W. Bridge	4-21-78

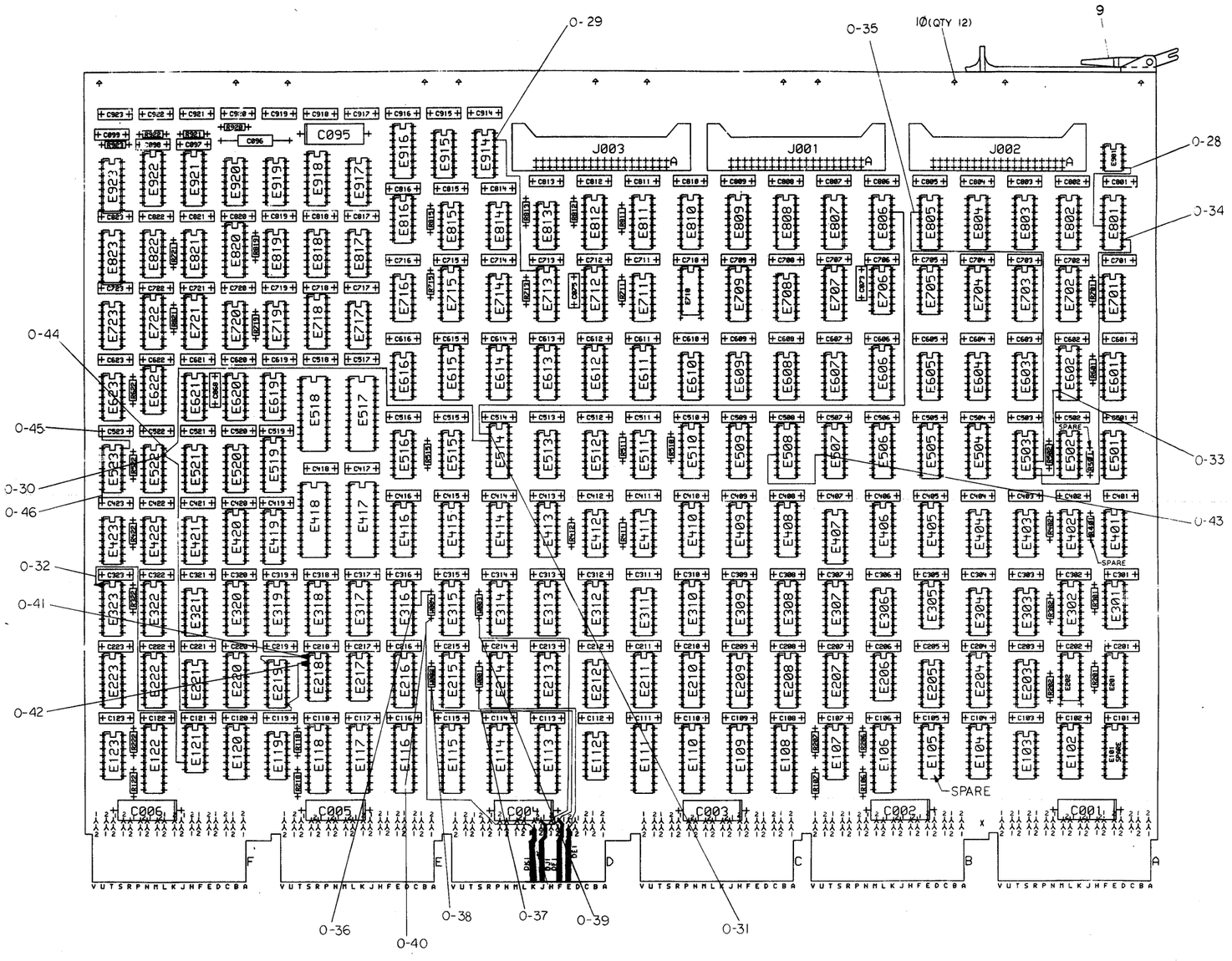
TITLE: KS1Ø UNIBUS ADAPTOR

SIZE	CODE	NUMBER	REV.
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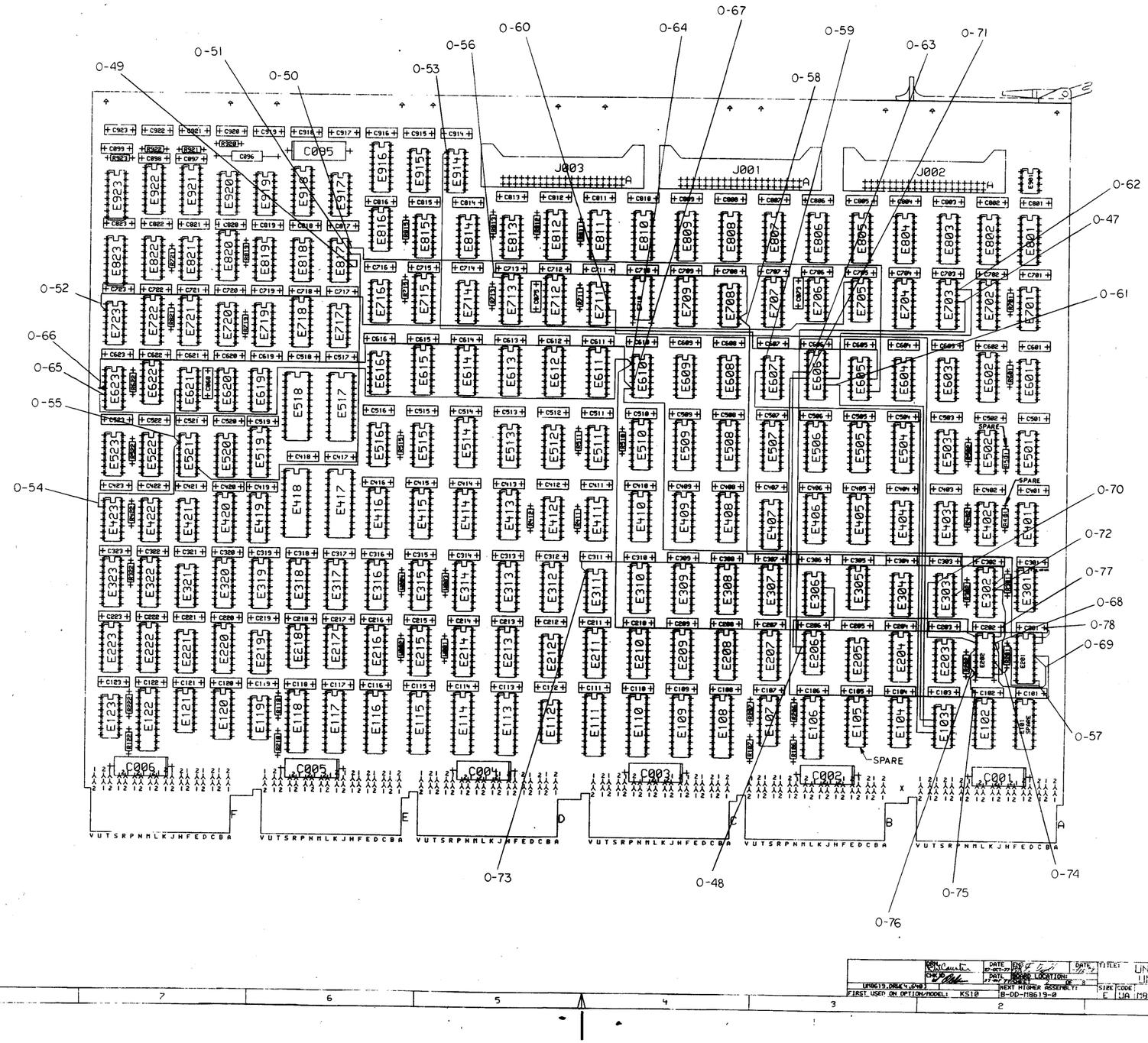
SHEET 1 OF 1

DRB 126

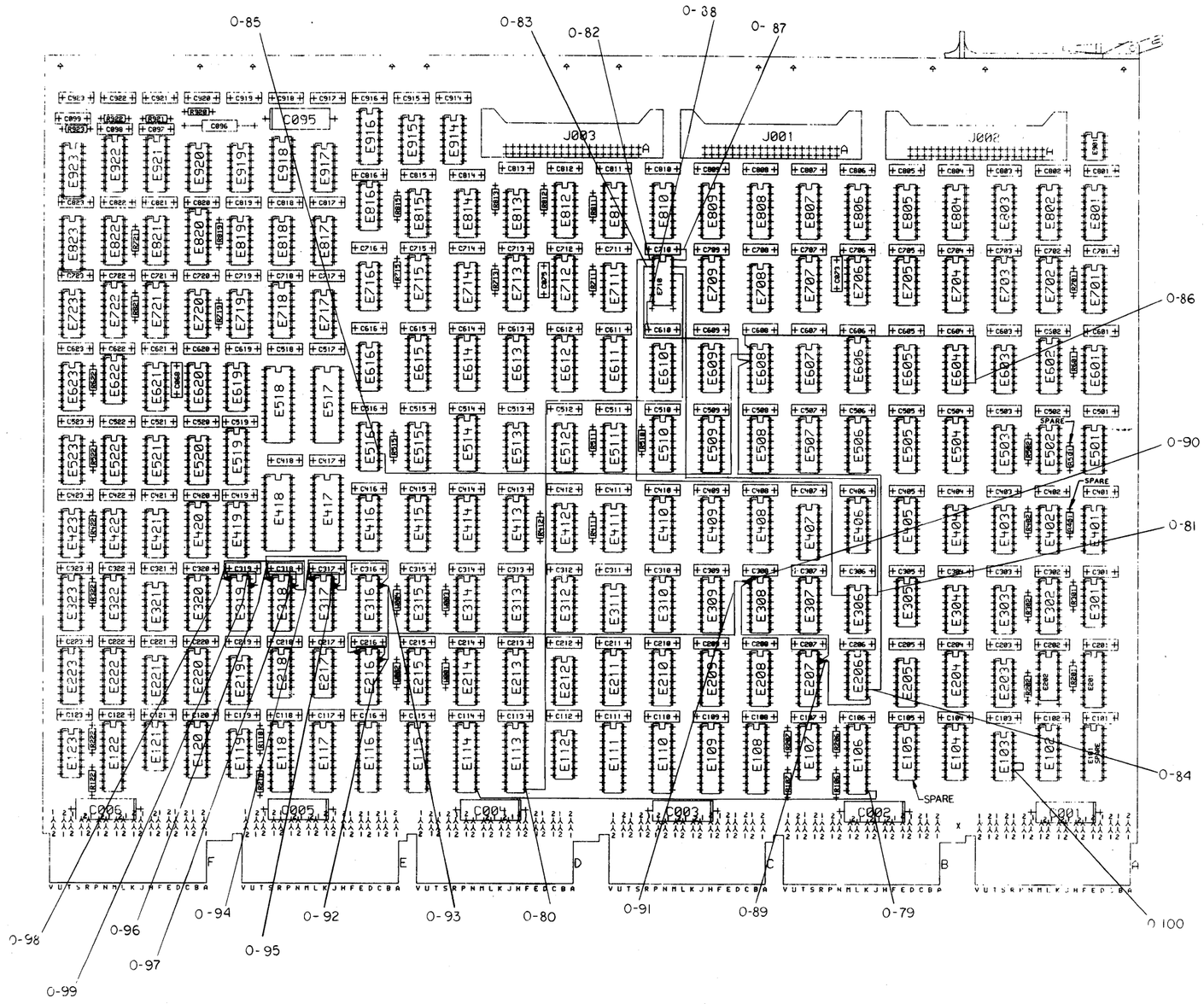
MR

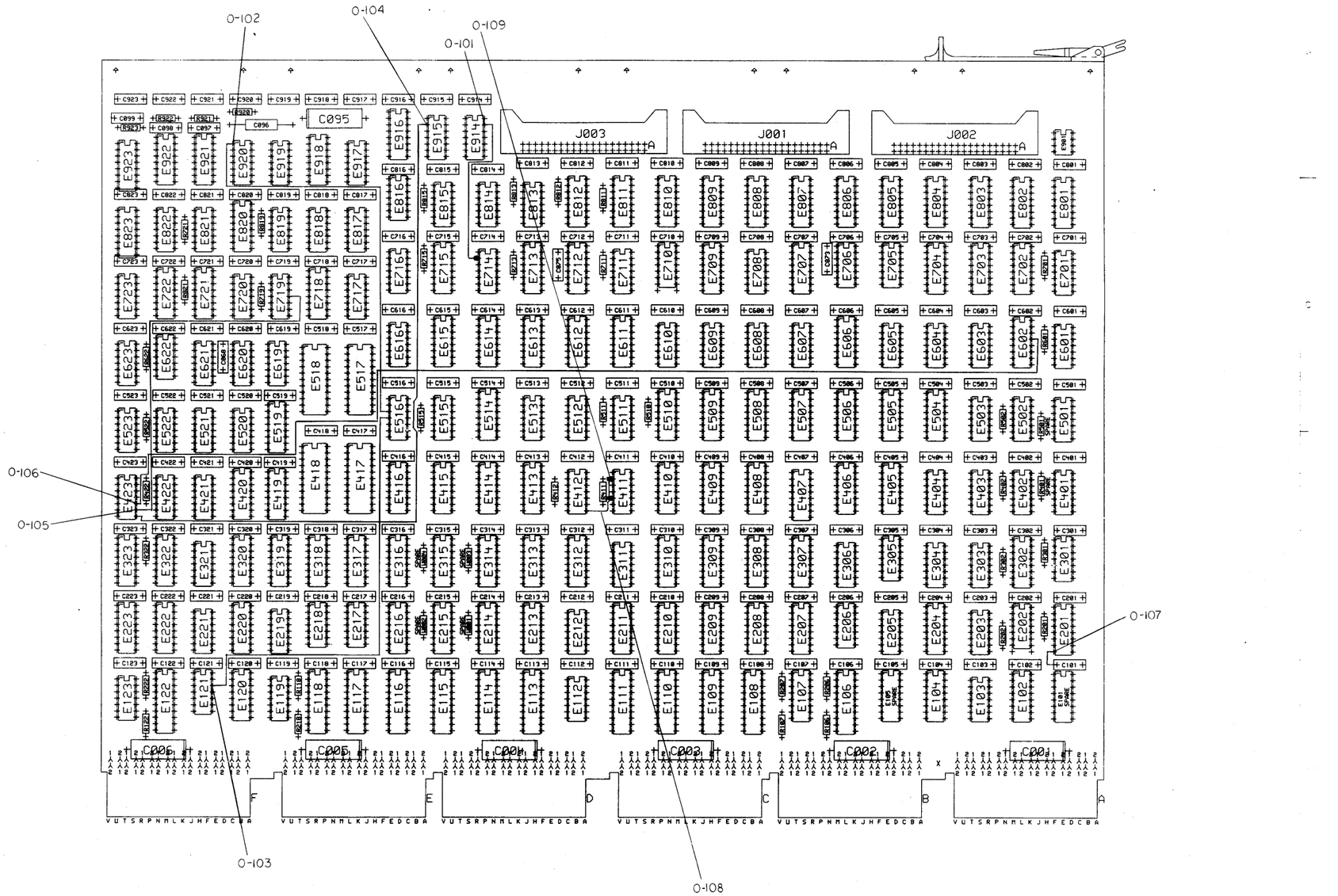


DRN: RLS Conte	DATE: 27-OCT-77	SIZE: B	DATE:	TITLE: UNIBUS ADAPTER UNIT ASSEMBLY	
CHK'D:	PART: BOARD LOCATION:				
UNB619.DRL(4,648)	NEXT HIGHER ASSEMBLY:			SIZE	CODE NUMBER REV.
FIRST USED ON OPTION/MODEL: KS10	B-DD-MB619-0			E	WA MB619-0-0 A

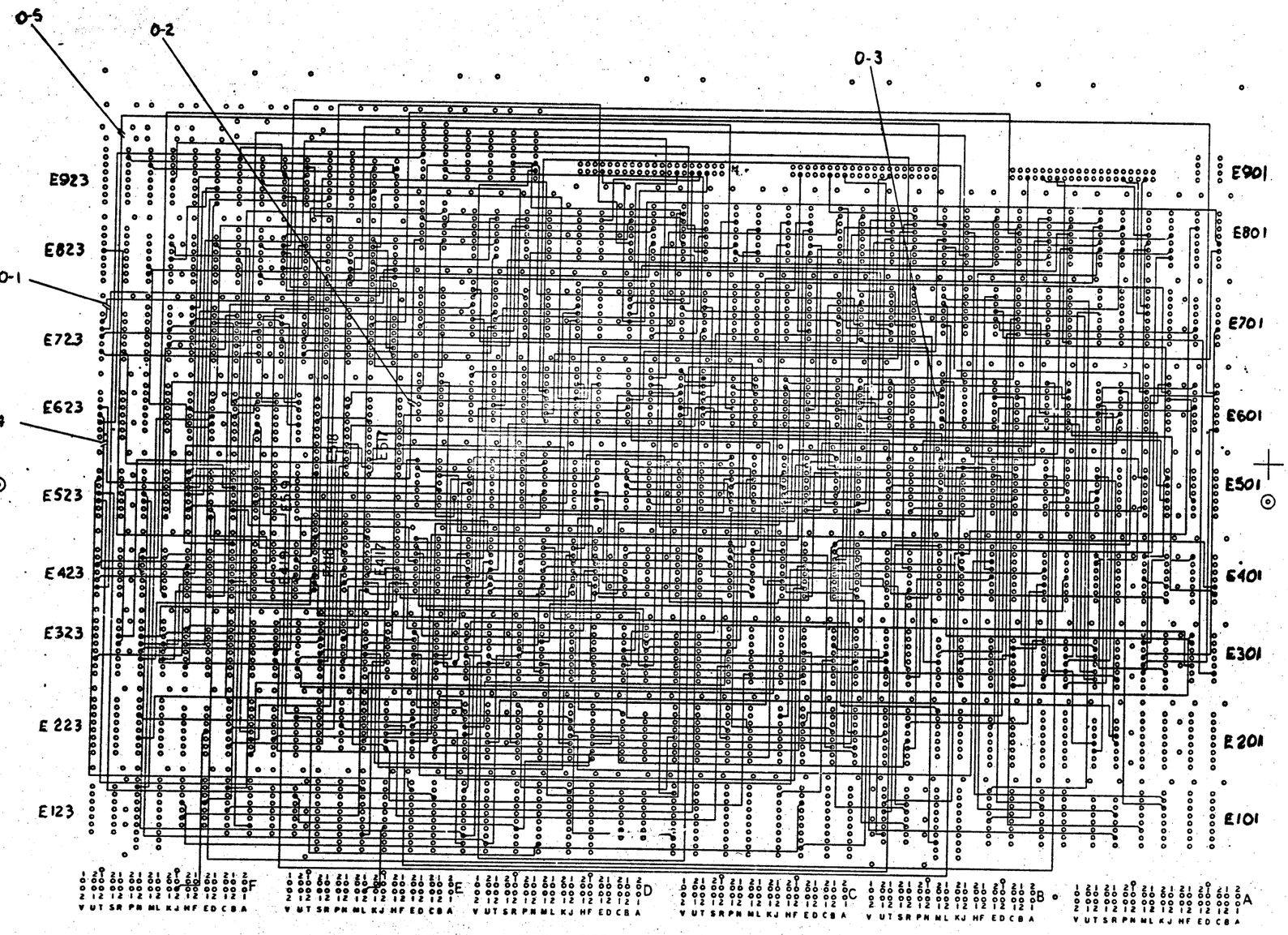


DRN	DATE	ENG	DATE	TITLE	UNIBUS ADAPTER UNIT ASSEMBLY
CHK	DATE	PROJECT	DOCUMENT LOCATION:		
UM8613 DBL4 [4048]			NEXT HIGHER ASSEMBLY:	SIZE	CODE / NUMBER / REV.
FIRST USED ON OPTION/MODEL: KS10			B-DD-M8613-0	E	UA M8613-0-0 A


0-85
0-83
0-82
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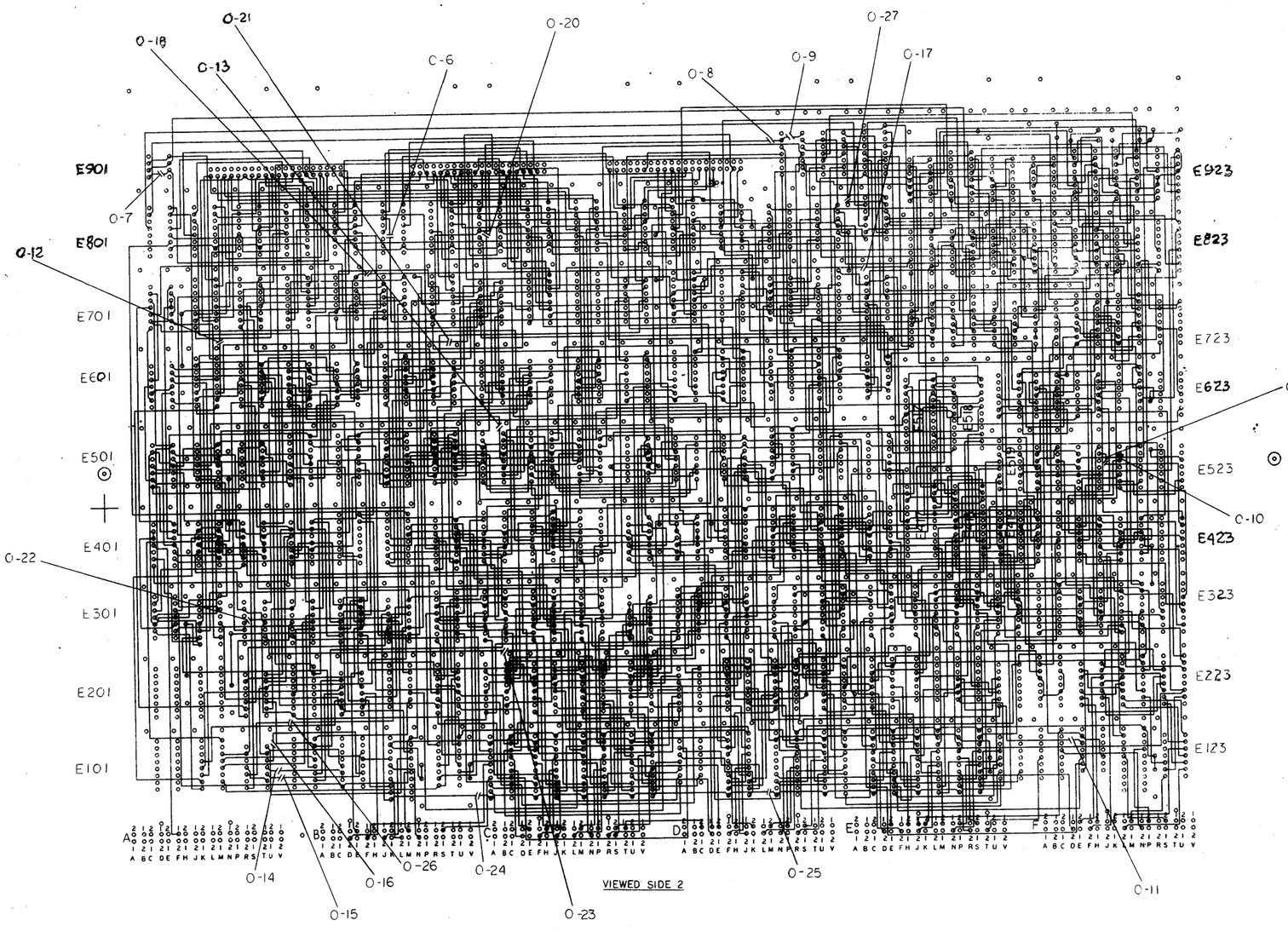


VIEWED SIDE 1

TITLE: UNIBUS ADAPTER			SIZE/CODE: E	DWG NO: UAM8619-0-0	REV: A
SCALE:	SHEET 5 OF 8			

MATERIAL: 1/AM8619-0-0 REV A

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REVISIONS		
ECO	CHANGE NO	REV

TITLE: UNIBUS ADAPTER		SIZE: E	CODE: UA	NUMBER: M8619-0-0
SCALE: 2/1	SHEET 6 OF 8	DIST		REV: A

1 MR

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VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	UNIBUS ADAPTER				
SCALE 2/1	SHEET 7 OF 8	SIZE	CODE	NUMBER	REV.
		E	UA	M8619-Ø - Ø	A
		DIST.			

1 MR

M8619-Ø-Ø A

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NOTES:

1. FOR DRAWING DIRECTORY REFER TO: 8-DD-M8619-0
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	+5.0V	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
IC DEC 8646	20	5,15
IC DEC 93L422	22	8
IC DEC 8640	8	1
IC DEC 75451	8	4

3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
4. MAXIMUM COMPONENT HEIGHT IS .300
5. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
6. FINISHED HOLE SIZES ARE AS FOLLOWED, IN INCHES:
   + = .037 ±.003
   ◇ = .133 +.002 -.007
   X = .100 ±.003
   ⅄ = .025 +.003 -.006

REWORK INSTRUCTIONS

FIRST RELEASE

ETCH CUTS, SIDE #1, AS SHOWN

0-1 AT ETCH ABOVE AND TO RIGHT OF E723(1)
0-2 AT ETCH TO LEFT OF E818(5)
0-3 AT E605(4)
0-4 AT ETCH BELOW AND TO RIGHT OF E623(7)
0-5 AT ETCH ABOVE AND TO LEFT OF E523(18)

ETCH CUTS, SIDE #2 AS SHOWN

0-6 AT ETCH ABOVE AND TO RIGHT OF E606(11)
0-7 AT E901(5)
0-8,0-9 AT E914(13) BOTH SIDES OF PTH
0-10 AT E522(13)
0-11 AT E121(12)
0-12 AT ETCH ABOVE AND TO RIGHT OF E602(1)
0-13 AT ETCH ABOVE AND TO LEFT OF E505(1)
0-14 AT E103(4)
0-15 AT E103(5)
0-16 AT ETCH ABOVE AND TO RIGHT OF E103(1)
0-17 AT ETCH ABOVE E716(14)
0-18 AT E705(1)
0-19 AT E521(2)
0-20 AT ETCH TO RIGHT OF E908(11)
0-21 AT FOURTH ETCH BELOW E707(8)
0-22 AT E303(11)
0-23 AT ETCH ABOVE E208(1)
0-24 AT E104(11)
0-25 AT E114(11)
0-26 AT ETCH BELOW E284(9)
0-27 AT ETCH ABOVE AND TO RIGHT OF E915(1)

WIRE ADDS, SIDE #1 AS SHOWN

0-28 FROM E901(5) TO E801(5)
0-29 FROM E914(13) TO E713(1)
0-30 FROM E522(13) TO E219(8)
0-31 FROM E808(14) TO E514(2)
0-32 LIFT LEG E323(1) AND ADD WIRE FROM LEG TO E121(6)
0-33 FROM E502(7) TO E503(8)
0-34 FROM E503(9) TO E901(10)
0-35 FROM E503(10) TO E905(3)
0-36 FROM E316(13) TO TOP PTH OF W4
0-37 FROM BOTTOM PTH OF W1 TO FINGER PIN DE1 PTH
0-38 FROM BOTTOM PTH OF W2 TO FINGER PIN DF1 PTH
0-39 FROM BOTTOM PTH OF W3 TO FINGER PIN DJ1 PTH
0-40 FROM BOTTOM PTH OF W4 TO FINGER PIN DK1 PTH
0-41 LIFT LEG OF E219(1) AND ADD WIRE FROM LEG TO E219(1)
0-42 LIFT LEG OF E218(2) AND ADD WIRE FROM LEG TO E219(8)
0-43 FROM E509(5) TO E507(5)
0-44 FROM E514(3) TO E522(13)
0-45 FROM E523(14) TO RIGHT LEG OF C523
0-46 FROM E523(7) TO LEFT LEG OF C423
0-47 FROM E703(13) TO E208(4)
0-48 FROM E206(3) TO E308(12)
0-49 FROM E817(10) TO E917(11)
0-50 FROM E605(9) TO E817(13)
0-51 FROM E617(12) TO E521(9)
0-52 FROM E723(2) TO E705(1)
0-53 FROM E914(1) TO E605(11)
0-54 FROM E423(2) TO E521(2)
0-55 FROM E521(2) TO E621(4)
0-56 FROM E708(9) TO E713(1)
0-57 FROM E291(9) TO TOP LEG OF R201
0-58 FROM E201(1) TO E708(9)
0-59 FROM E607 (3) TO E103(5)
0-60 FROM E711(10) TO E103(4)
0-61 FROM E103(3) TO E606(11)
0-62 FROM E606(12) TO E703(15)
0-63 FROM E608(4) TO E201(13)
0-64 FROM E201(15) TO E618(2)
0-65 FROM E618(2) TO E623(5)

SHT 1 OF 8

0-66 LIFT LEG OF E623(4) AND ADD WIRE FROM LEG TO E810(6)
0-67 FROM E618(6) TO E303(11)
0-68 FROM E292(12) TO E202(13)
0-69 FROM E292(13) TO E201(13)
0-70 FROM E303(2) TO E202(2)
0-71 FROM E292(1) TO E606(5)
0-72 FROM E292(9) TO E302(13)
0-73 FROM E302(14) TO E311(1)
0-74 FROM E282(18) TO BOTTOM LEG OF R201
0-75 FROM E282(7) TO LEFT LEG OF C102
0-76 FROM E282(7) TO E282(3)
0-77 FROM E282(14) TO RIGHT LEG OF C202
0-78 FROM E201(18) TO RIGHT LEG OF C201
0-79 FROM E108(11) TO E114(11)
0-80 FROM E718(12) TO E113(11)
0-81 FROM E718(13) TO E308(13)
0-82 FROM E718(1) TO E305(2)
0-83 FROM E718(2) TO E608(3)
0-84 FROM E608(3) TO E208(9)
0-85 FROM E508(2) TO E518(18)
0-86 FROM E508(1) TO E604(9)
0-87 FROM E718(14) TO RIGHT LEG OF C118
0-88 FROM E718(7) TO LEFT LEG OF C518
0-89 LIFT LEG OF E297(15) AND ADD WIRE FROM LEG TO E298(9)
0-90 LIFT LEG OF E308(1) AND ADD WIRE FROM LEG TO LEG OF E297(15)
0-91 LIFT LEG OF E216(1) AND ADD WIRE FROM LEG TO LEG OF E308(1)
0-92 LIFT LEG OF E216(15) AND ADD WIRE FROM LEG TO LEG OF E216(1)
0-93 LIFT LEG OF E316(18) AND ADD WIRE FROM LEG TO LEG OF E216(15)
0-94 LIFT LEG OF E317(1) AND ADD WIRE FROM LEG TO LEG OF E316(15)
0-95 LIFT LEG OF E317(15) AND ADD WIRE FROM LEG TO LEG OF E317(1)
0-96 LIFT LEG OF E318(1) AND ADD WIRE FROM LEG TO LEG OF E317(15)
0-97 LIFT LEG OF E318(15) AND ADD WIRE FROM LEG TO LEG OF E318(1)
0-98 LIFT LEG OF E319(1) AND ADD WIRE FROM LEG TO LEG OF E318(15)
0-99 LIFT LEG OF E319(15) AND ADD WIRE FROM LEG TO LEG OF E319(1)
0-100 FROM E103(18) TO E103(9)
0-101 LIFT LEG OF E714(2) AND ADD WIRE FROM LEG TO E914(13)
0-102 FROM E518(3) TO E928(1)
0-103 FROM E518(4) TO E121(12)
0-104 FROM E423(8) TO E915(2)
0-105 FROM E423(9) TO E719(11)
0-106 FROM E423(18) TO E802(13)
0-107 FROM E281(8) TO LEFT LEG OF C181
0-108 LIFT LEG OF E412(8) AND ADD WIRE FROM LEG TO E412(8)
0-109 LIFT LEG OF E411(2) AND ADD WIRE FROM LEG TO LEG OF E411(5)

SHT 2 OF 8

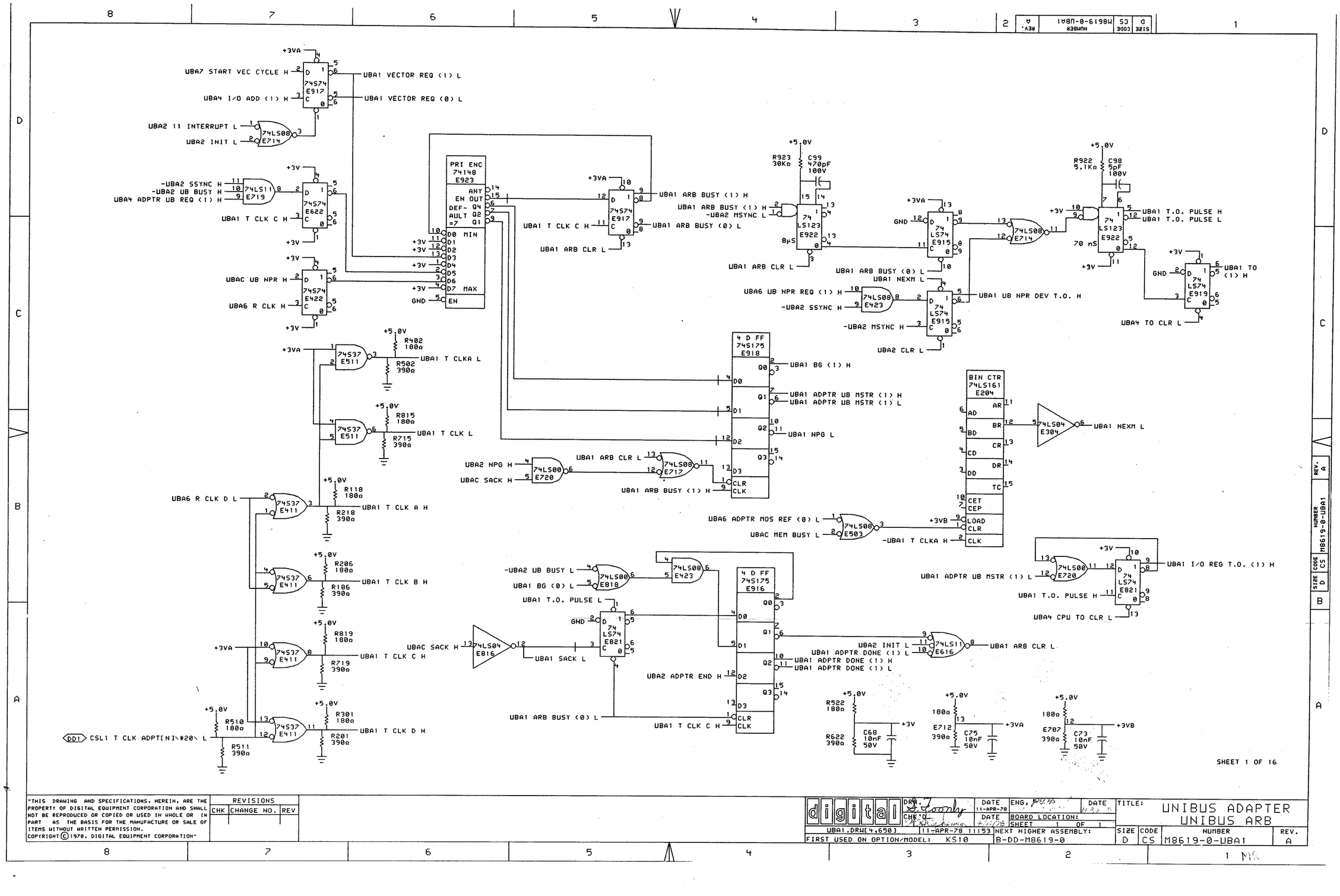
SHT 3 OF 8

SHT 4 OF 8

REVISIONS			
CHK	CHANGE NO.	REV.	

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS ADAPTER	E	UA	M8619-0-0	A
SCALE — SHEET 8 OF 8	DIST.			

REC. A
SYSTEM M8619-0-0
END CODE E UA



SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA1	A

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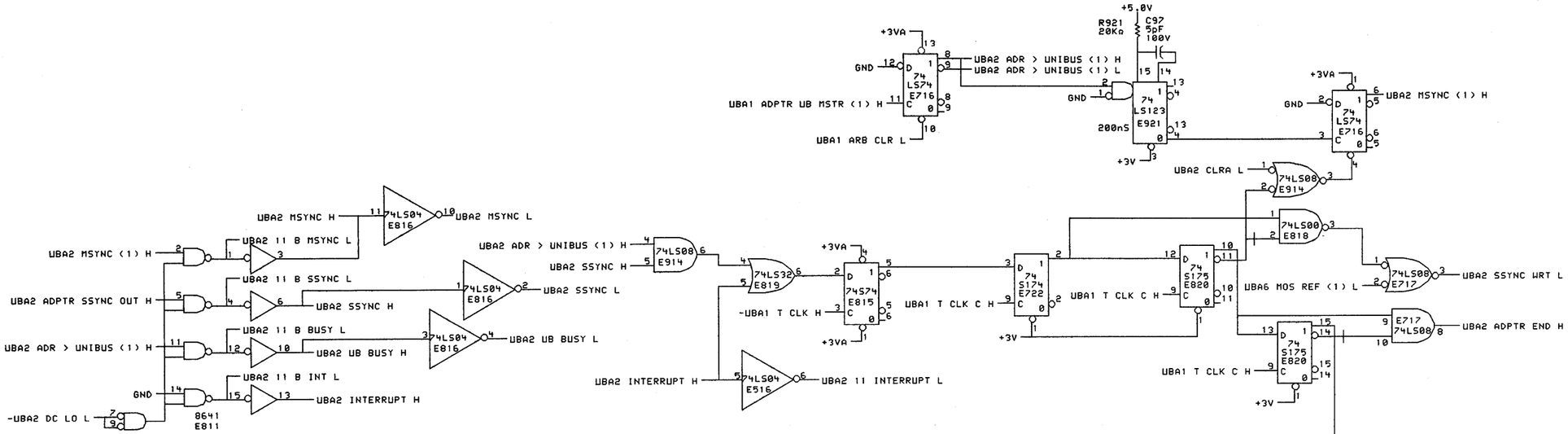
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. T.Toomey	DATE 11-APR-78	ENG.	DATE
CHK'D	DATE	BOARD LOCATION:	
UBA1.DRW[4,650]	11-APR-78 11:53	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8619-0	

TITLE: UNIBUS ADAPTER UNIBUS ARB

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA1	A



SHEET 2 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital — DRW: D. Toomey — DATE: 11-APR-78 — ENG: — DATE: — CHK: D. — DATE: 4/27/78 — BOARD LOCATION:

UBA2.DRW[4,650] 11-APR-78 11:17 — NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8619-0

TITLE: UNIBUS ADAPTER UNIBUS CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA2	A

SHEET 1 OF 1

REV. A | NUMBER M8619-0-UBA2 | CODE CS | SIZE D

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA3	A

6 D FF 74LS174 E322

UBA9 M BIT 30 H → 0D; UBA9 M BIT 31 H → 1D; UBA8 M BIT 32 H → 2D; UBA8 M BIT 33 H → 3D; UBA8 M BIT 34 H → 4D; UBA8 M BIT 35 H → 5D

0R → UBA3 PIH2 H; 1R → UBA3 PIH1 H; 2R → UBA3 PIH0 H; 3R → UBA3 PIL2 H; 4R → UBA3 PIL1 H; 5R → UBA3 PIL0 H

UBA2 INIT L → CLR; CLK

UBA5 STA/MNT WRT (1) H, UBA4 ADR STATUS REG H → 74S08 E520 → UBA3 STA WRT H

DECODER 74LS138 E222

0F 1F 2F 3F 4F 5F 6F 7F

SEL: 4 2 1; GND; EN

→ 74LS09 E221 → BUS PI REQ 1 L (FE2)

→ 74LS09 E221 → BUS PI REQ 2 L (FF2)

→ 74LS09 E221 → BUS PI REQ 3 L (FH2)

→ 74LS09 E221 → BUS PI REQ 4 L (FJ2)

DECODER 74LS138 E223

0F 1F 2F 3F 4F 5F 6F 7F

SEL: 4 2 1; GND; EN

→ 74LS09 E123 → BUS PI REQ 5 L (FK2)

→ 74LS09 E123 → BUS PI REQ 6 L (FL2)

→ 74LS09 E123 → BUS PI REQ 7 L (FM2)

4 D FF 74LS175 E320

UBA9 M BIT 28 H → 0D; 1D; 2D; 3D

0R → UBA3 DIS XFER (1) H; 1R; 2R; 3R

UBA2 INIT L, UBA3 STA WRT H → CLR; CLK

74LS04 E621 → UBA3 BR 6/7 INT REQ H

74LS04 E621 → UBA3 BR 4/5 INT REQ H

UBAE B BR7 L → 8640 E814 → D 74S174 E722 C

UBAE B BR6 L → 8640 E814 → D 74S174 E722 C

UBAE B BR5 L → 8640 E814 → D 74S174 E722 C

UBAE B BR4 L, GND → 8640 E814 → D 74S174 E722 C

+3V; UBA1 T CLK C H

4 D FF 25LS08 E721

D0 D1 D2 D3; 0R 1R 2R 3R

UBA1 VECTOR REQ (0) L, UBA1 T CLK C H → EN; CLK

74LS08 E619 → UBA3 BR 6/7 INT REQ H

74LS08 E619 → UBA3 BR 4/5 INT REQ H

UBA7 BG HI H → 74LS08 E619

UBA7 BG LOW H → 74LS08 E619

74LS11 E719

4 D FF 74LS175 E718

0D 1D 2D 3D; 0R 1R 2R 3R

UBA1 BG (1) H → CLR; CLK

UBA1 SACK L, UBA2 INIT L → 74LS08 E423 → UBA3 SACK+CLR L

+5.0V → R813 178Ω → 8881 E813 → UBA3 B BG7 H

+5.0V → R713 178Ω → 8881 E813 → UBA3 B BG6 H

+5.0V → R812 178Ω → 8881 E813 → UBA3 B BG5 H

+5.0V → R711 178Ω → 8881 E813 → UBA3 B BG4 H

SHEET 3 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. D. Toomey DATE 07-APR-78 ENG. DATE

CHK D. DATE BOARD LOCATION:

SHEET 1 OF 1

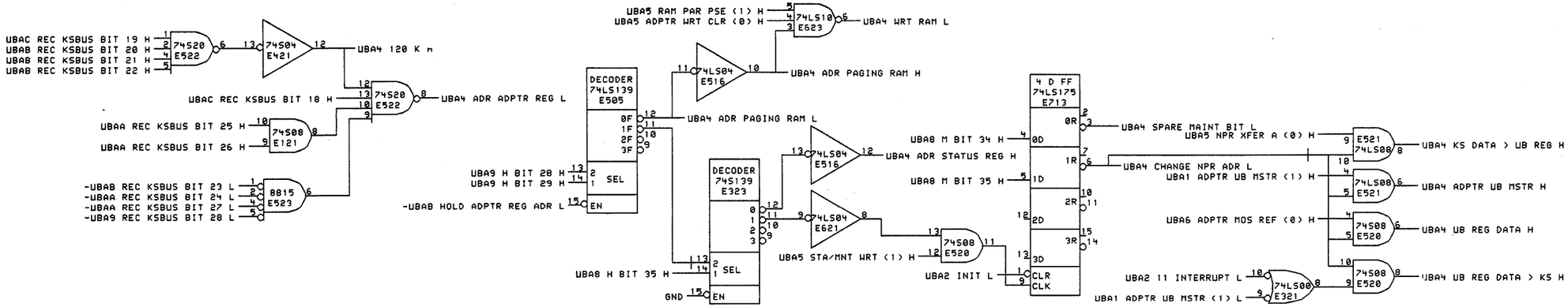
UBA3.DRW[4,650] 07-APR-78 00:29 NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: KS10 B-DD-M8619-0

TITLE: UNIBUS ADAPTER INTERRUPT

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA3	A

1 MR



SHEET 4 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

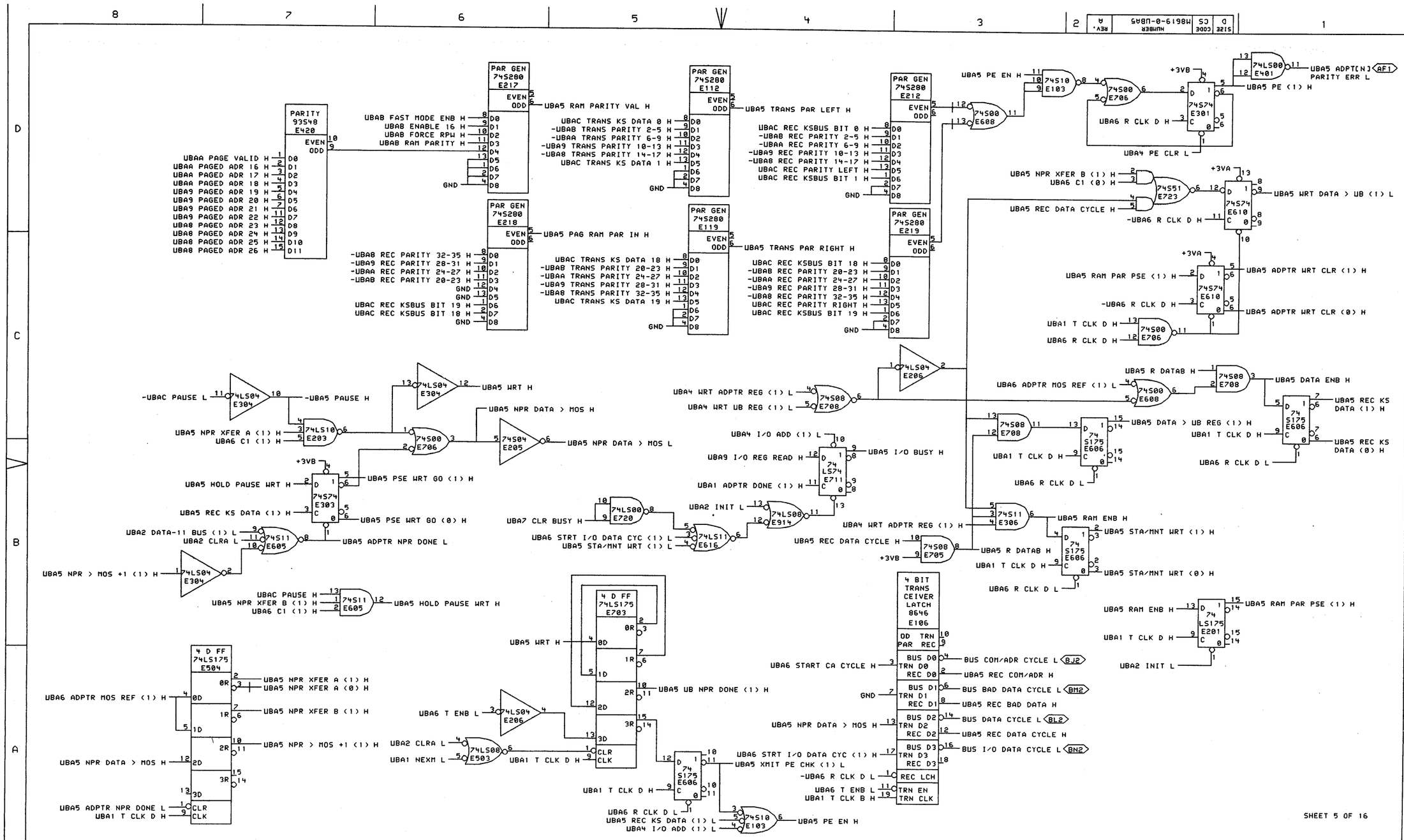
digital

DRN. T.Toomey	DATE 13-APR-78	ENG.	DATE
CHK'D.	DATE	BOARD LOCATION:	
UBA4.DRW[4,650]	13-APR-78 11:01	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8619-0	

TITLE: UNIBUS ADAPTER I/O RD+WRT

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA4	A

1 MR



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REVISIONS		
CHK	CHANGE NO.	REV

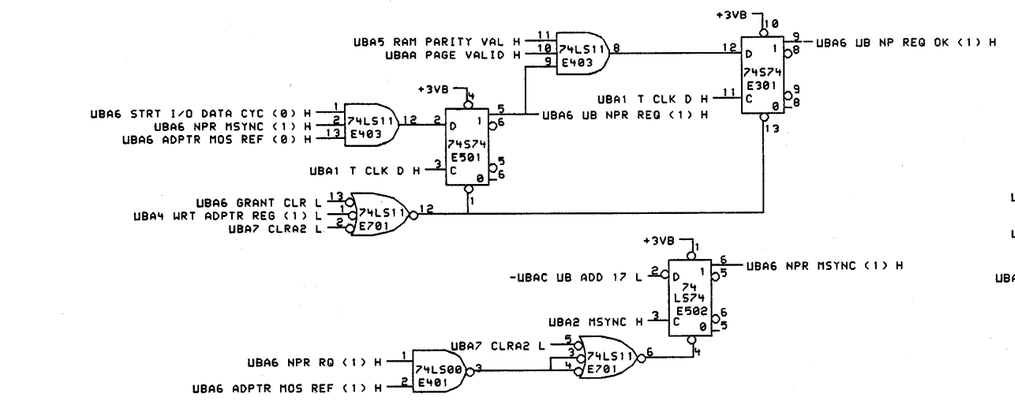
digital

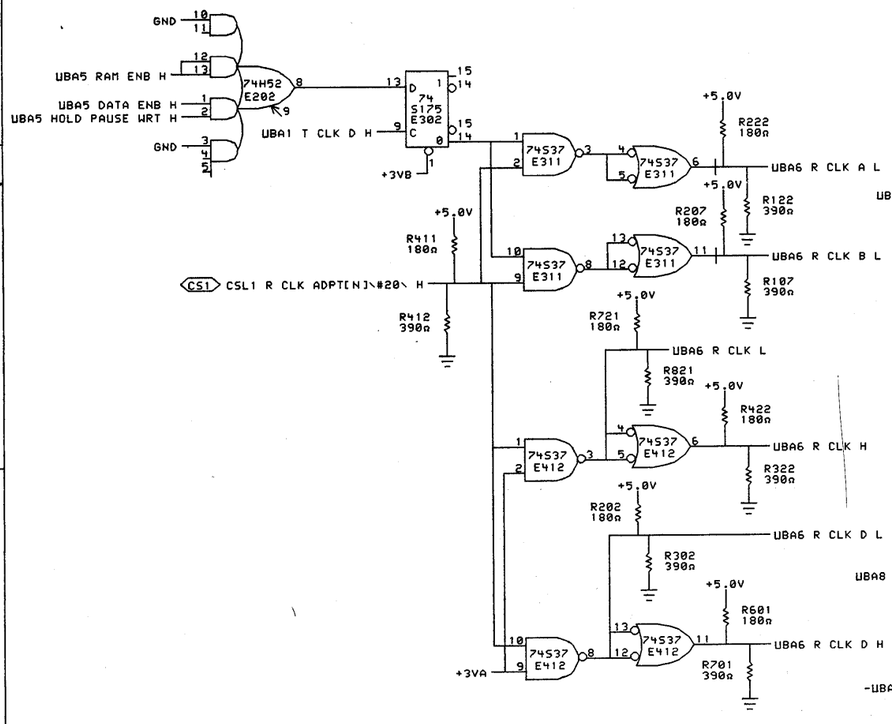
DRN. J. Toomey — DATE 11-APR-78 — ENG. — DATE
CHK D. — DATE — BOARD LOCATION: — SHEET 1 OF 1

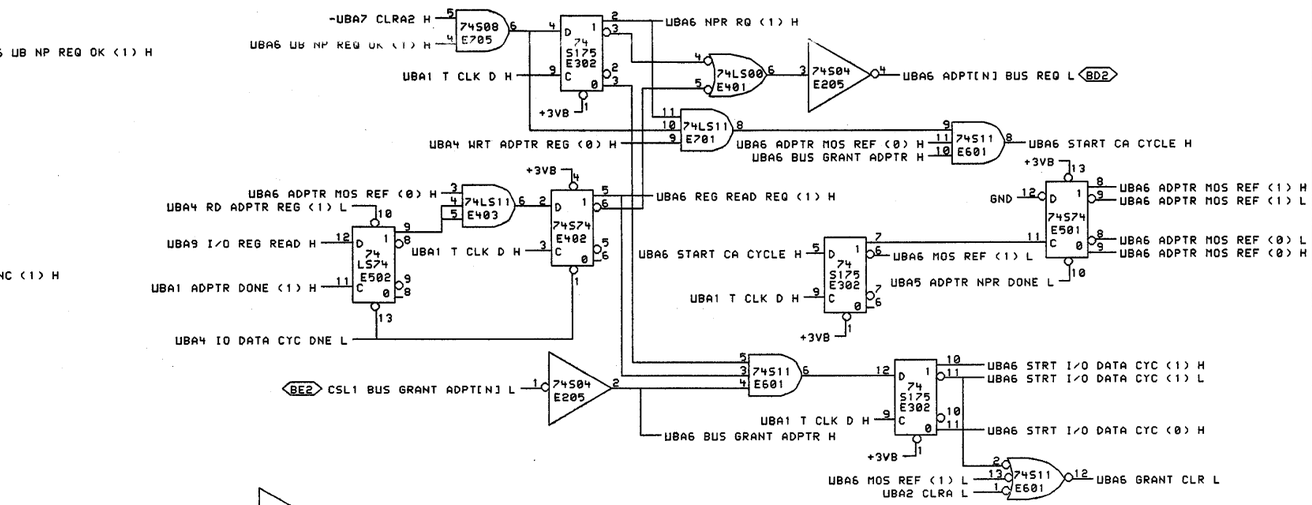
UBA5.DRW[4,650] 11-APR-78 11:19 — NEXT HIGHER ASSEMBLY: B-DD-M8619-0
FIRST USED ON OPTION/MODEL: KS10

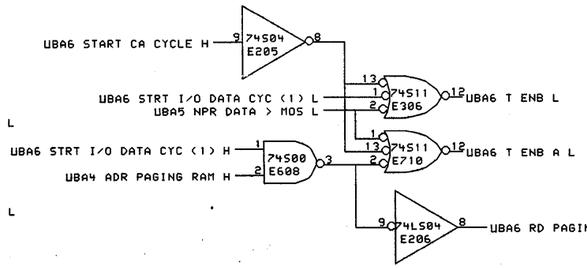
TITLE: UNIBUS ADAPTER NPR CONTROL

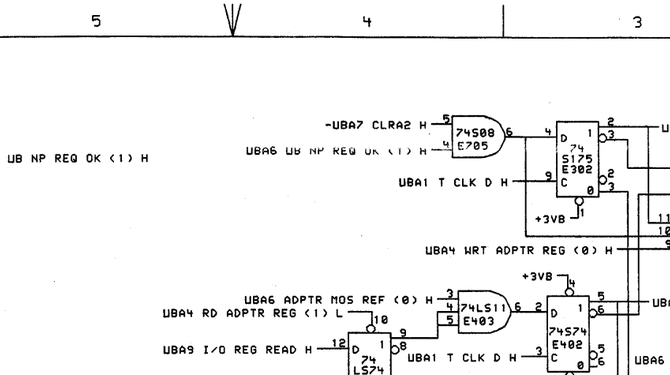
SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA5	A

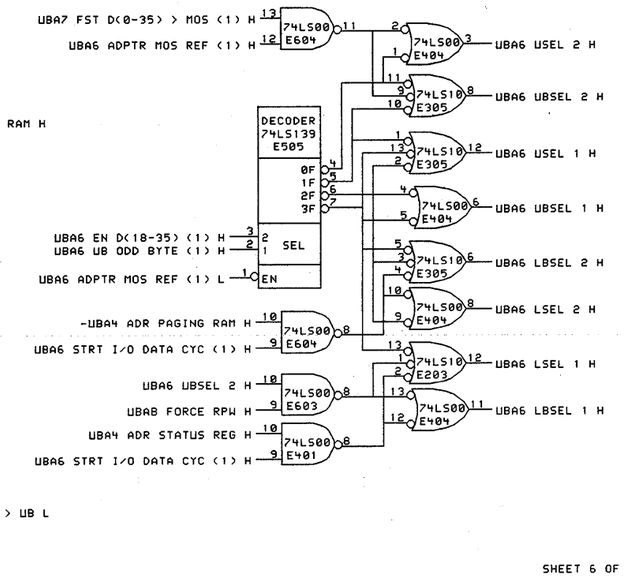












SHEET 6 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. Toomy — DATE 07-APR-78 — ENG. — DATE N/A
CHK'D — DATE — BOARD LOCATION:
SHEET 1 OF 1
UBA6.DRW[4,650] — 07-APR-78 01:33 — NEXT HIGHER ASSEMBLY: B-DD-M8619-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: UNIBUS ADAPTER KS10 BUS REQ

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA6	A

1 M8

COMPARE 74LS85 E419
UBA3 BR 6/7 INT REQ H
GND
UBA3 PIH2 H
UBA3 PIH1 H
UBA3 PIH0 H
GND
UBA8 REC KSBUS BIT 15 H
UBA8 REC KSBUS BIT 16 H
UBA8 REC KSBUS BIT 17 H
IN A>B OUT
IN A=B OUT
IN A<B OUT
A-DA
A-DB
A-DC
A-DD
B-DA
B-DB
B-DC
B-DD

COMPARE 74LS85 E519
UBA3 BR 4/5 INT REQ H
GND
UBA3 PIL2 H
UBA3 PIL1 H
UBA3 PIL0 H
GND
UBA8 REC KSBUS BIT 15 H
UBA8 REC KSBUS BIT 16 H
UBA8 REC KSBUS BIT 17 H
IN A>B OUT
IN A=B OUT
IN A<B OUT
A-DA
A-DB
A-DC
A-DD
B-DA
B-DB
B-DC
B-DD

4 D FF 74LS175 E823
D0
D1
D2
D3
Q0
Q1
Q2
Q3
UBA7 PI HI REQ (1) H
UBA7 PI LOW REQ (1) H
+3V
CLR
CLK
UBA1 T CLK C H

UBAC REC KSBUS BIT 0 H
UBA8 REC KSBUS BIT 4 H
UBA5 REC COM/ADR H
74S11 E920

UBA7 PI HI REQ (1) H
UBA7 PI LOW REQ (1) H
74LS32 E819

74LS08 E521

UBA7 PI HI REQ (1) H
74S74 E620
UBA7 BG HI H
UBA7 BG LOW H

UBA5 I/O BUSY H
[B,UBA7 PI REQ ADPT[N] L, BUS DATA [N+18] L] EJ1
BUS I/O BUSY L FN2
CRA2 SPEC/CLR BUS BUSY L ET2
UBA7 CLR BUSY H
GND
8641 E120

6 D FF 74LS174 E107
UBAC UB DATA 17 H
UBAC UB DATA 16 H
UBAB UB DATA 15 H
UBAB UB DATA 14 H
UBAB UB DATA 13 H
UBAB UB DATA 12 H
UBA7 FST SAVE D(0-17) > MOS (1) H
UBA7 DATA 00 H
UBA7 DATA 01 H
UBA7 DATA 02 H
UBA7 DATA 03 H
UBA7 DATA 04 H
UBA7 DATA 05 H

6 D FF 74LS174 E208
UBAA UB DATA 11 H
UBAA UB DATA 10 H
UBAA UB DATA 9 H
UBAA UB DATA 8 H
UBA9 UB DATA 7 H
UBA9 UB DATA 6 H
UBA7 DATA 06 H
UBA7 DATA 07 H
UBA7 DATA 08 H
UBA7 DATA 09 H
UBA7 DATA 10 H
UBA7 DATA 11 H

+5.0V E515 1KΩ
+3VA
DK1 [B,UBA7 DEVICE 3 H,GND]
DJ1 [B,UBA7 DEVICE 2 H,[N,GND,GND,GND,NC]]
DF1 [B,UBA7 DEVICE 1 H,[N,GND,NC,NC,GND]]
DE1 [B,UBA7 DEVICE 0 H,[N,NC,GND,NC,GND]]
COMPARE 74LS85 E214
UBA8 REC KSBUS BIT 14 H
UBA8 REC KSBUS BIT 15 H
UBA8 REC KSBUS BIT 16 H
UBA8 REC KSBUS BIT 17 H

M8619 UBA #	SLOT #	PIN DE1	PIN DF1	PIN DJ1	PIN EJ1
UBA #1	19	NC	GND	GND	GND
UBA #2	-	GND	NC	GND	GND
UBA #3	16	NC	NC	GND	GND
UBA #4	15	GND	GND	NC	GND

UBAB REC KSBUS BIT 5 H
UBAC REC KSBUS BIT 0 H
UBA5 REC COM/ADR H
-UBA8 REC KSBUS BIT 4 L
74S08 E121
74S11 E920
74S04 E516
UBA7 START VEC CYCLE H
UBA7 COM/ADR ENABLE H

UBA5 REC DATA CYCLE H
UBA5 NPR XFER A (1) H
74S10 E103
UBA7 FST SAVE D(18-35) > UB L
UBA5 NPR XFER A (1) H
UBA5 REC DATA CYCLE H
74S11 E306
UBA7 FST SAVE D(18-35) > UB H

DECODER 74LS139 E104
0F
1F
2F
3F
SEL
EN
UBA6 EN D(18-35) (1) H
UBA6 C1 (1) H
74LS04 E206
UBAB FAST MODE ENB H

4 D FF 74LS175 E102
0R
1R
2R
3R
0D
1D
2D
3D
CLR
CLK
UBA7 FST SAVE D(0-17) > MOS (1) H
UBA7 FST SAVE D(0-17) > MOS (1) L
UBA7 FST D(18-35) > UB (1) H
UBA7 FST D(0-35) > MOS (1) H
UBA7 FST D(0-35) > MOS (1) L
-UBA2 MSYNC L
UBA6 UB NP REQ OK (1) H
74S04 E304
74S04 E205
74S04 E205

+3VB
74S74 E402
-UBA1 T CLKA H
-UBA2 MSYNC L
UBA7 FAST D(18-35) (1) L
UBA2 CLRA L
74S11 E605
UBA7 CLRA2 L

6 D FF 74LS174 E312
UBA9 UB DATA 5 H
UBA9 UB DATA 4 H
UBA8 UB DATA 3 H
UBA8 UB DATA 2 H
UBA8 UB DATA 1 H
UBA8 UB DATA 0 H
UBA7 FST SAVE D(0-17) > MOS (1) H
UBA7 DATA 12 H
UBA7 DATA 13 H
UBA7 DATA 14 H
UBA7 DATA 15 H
UBA7 DATA 16 H
UBA7 DATA 17 H

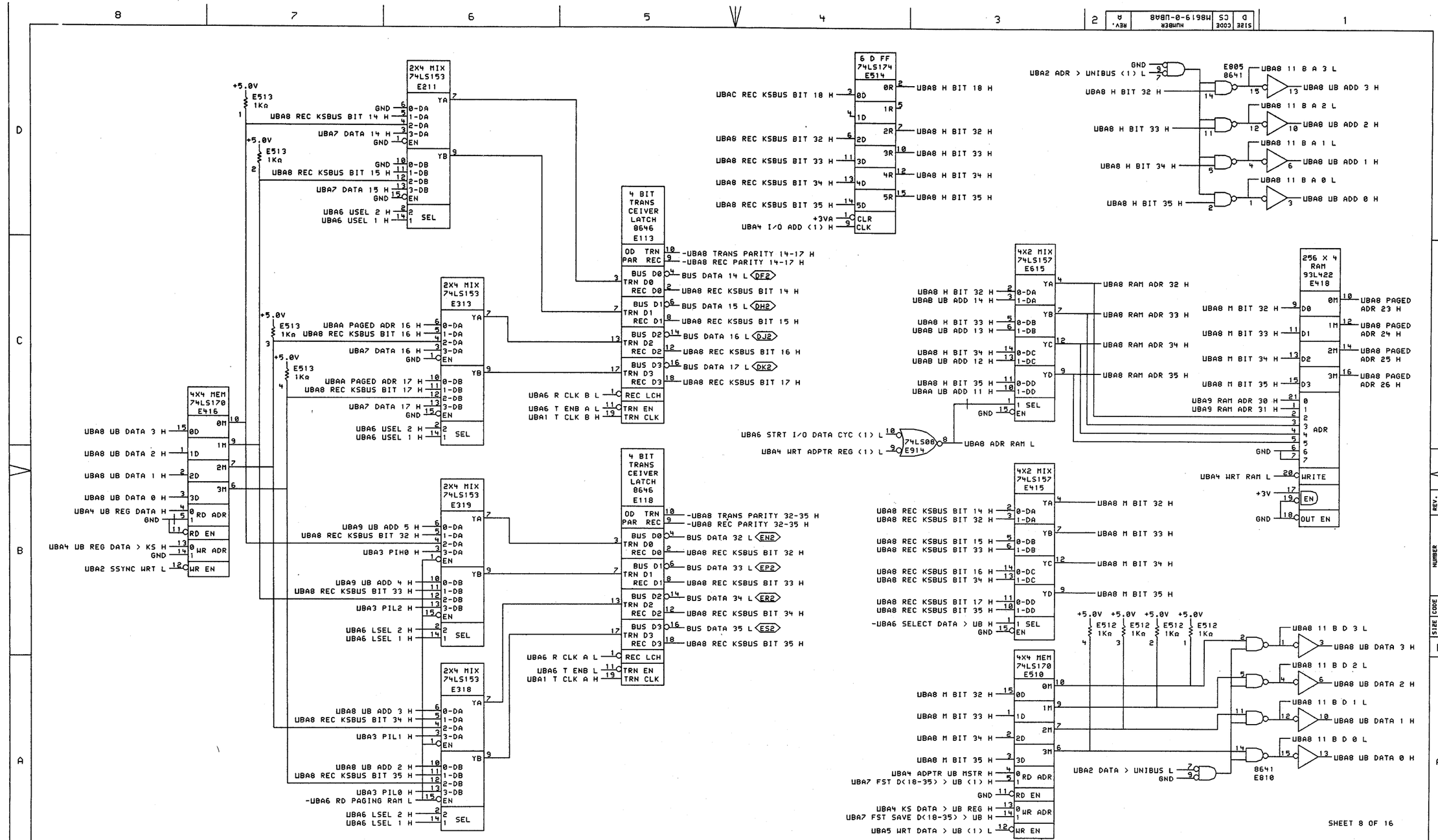
SHEET 7 OF 16

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REVISIONS
CHK | CHANGE NO. | REV

digital
DRN. D.Toomy
CHK'D.
DATE 13-APR-78
ENG.
DATE
BOARD LOCATION:
SHEET 1 OF 1
UBA7.DRW[4,650] 13-APR-78 11:04
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-DD-M8619-0

TITLE: UNIBUS ADAPTER FAST MODE LOGIC
SIZE D | CODE CS | NUMBER M8619-0-UBA7 | REV. A



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REVISIONS		
CHK	CHANGE NO.	REV

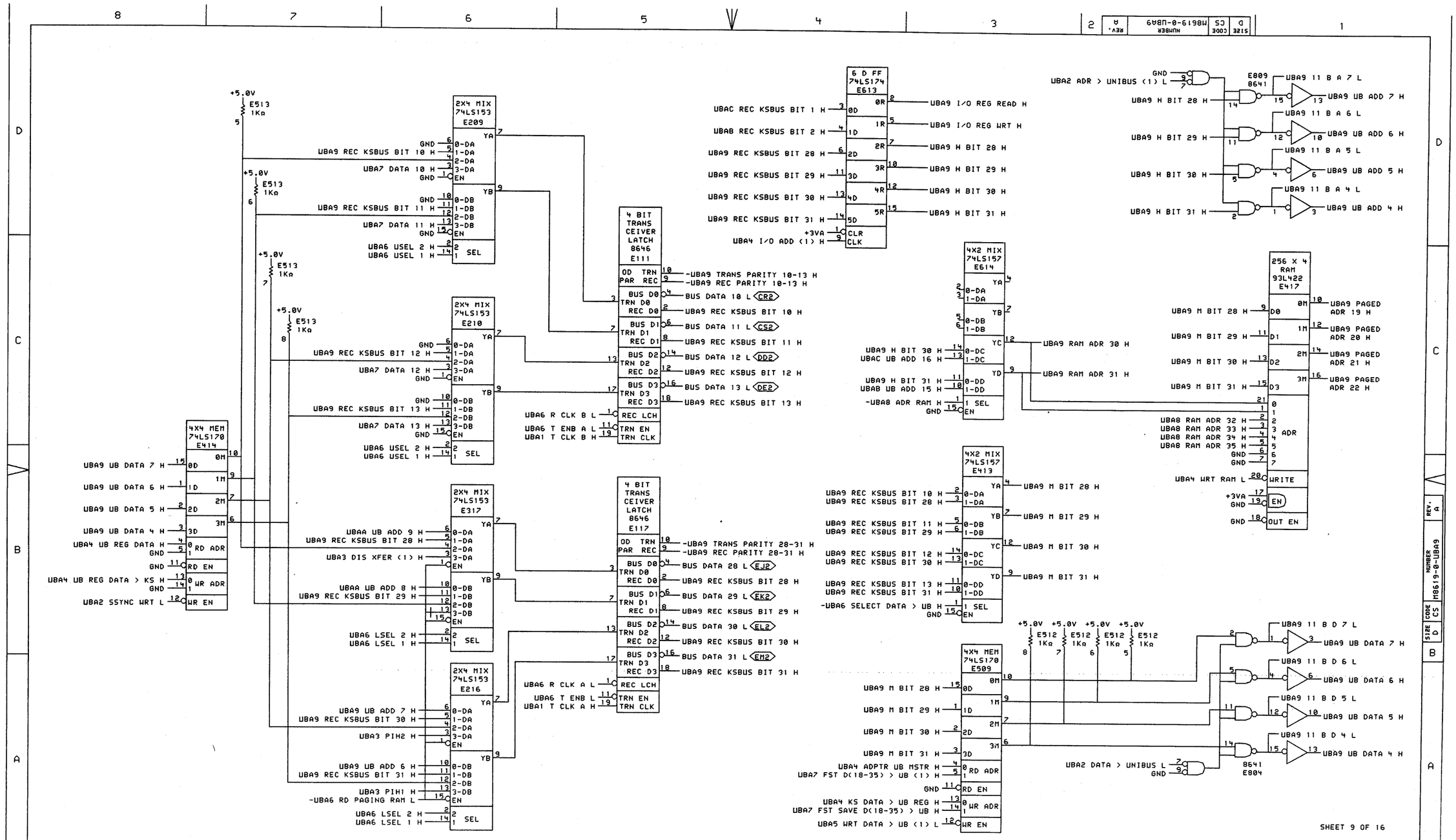
digital

DRN. R. Toomey 11-APR-78 | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION:
UBA8.DRW[4,650] 11-APR-78 09:39 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8619-0

TITLE: UNIBUS ADAPTER DATA PATH 1

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA8	A

SHEET 8 OF 16



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REVISIONS		
CHK	CHANGE NO.	REV

digital

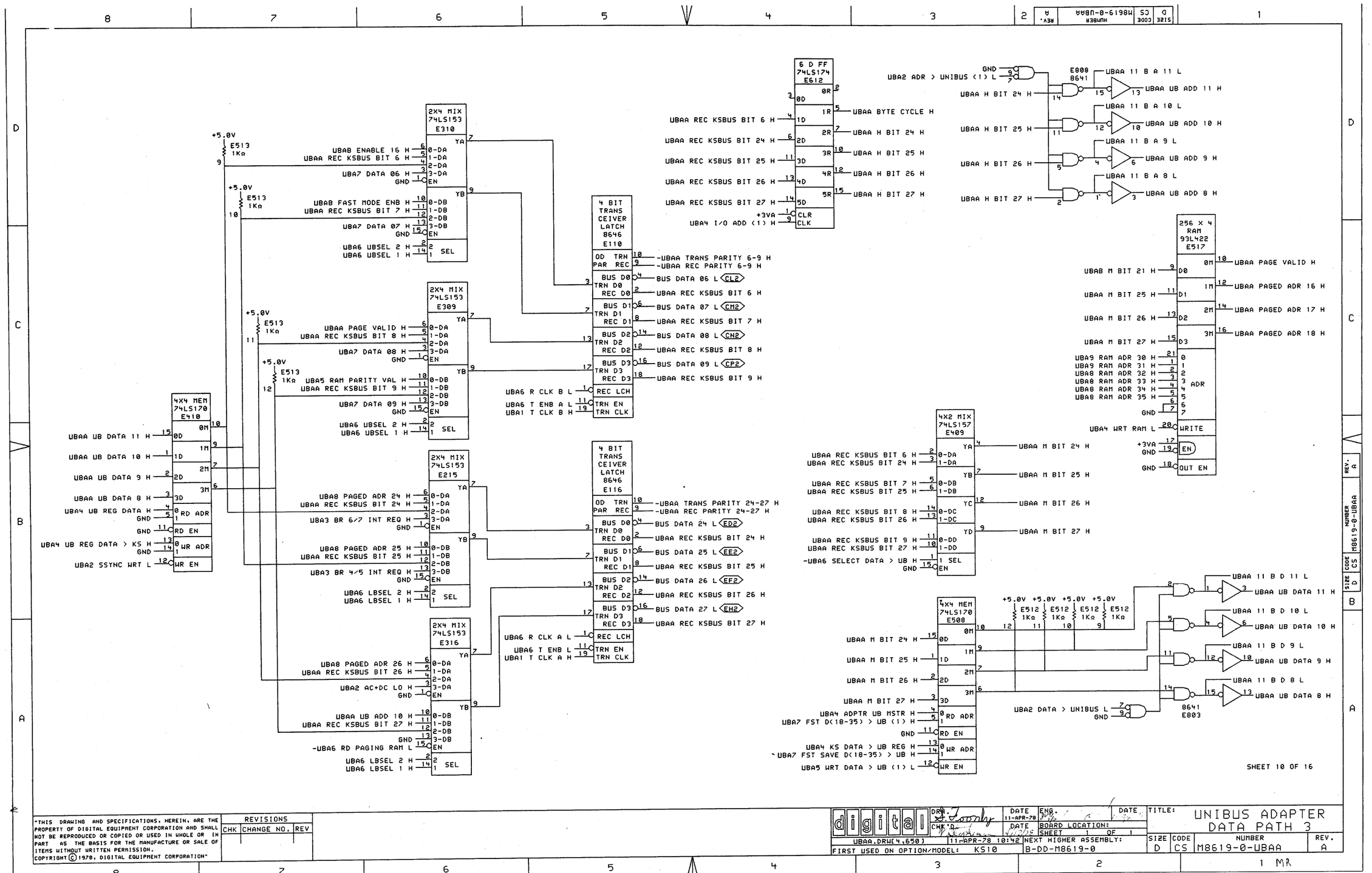
DRN. E.Looney DATE 11-APR-78
CHK'D. DATE
ENG. DATE
BOARD LOCATION:
SHEET 1 OF 1

UBA9.DRWL4,650) | 11-APR-78 09:44
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8619-0

TITLE: UNIBUS ADAPTER DATA PATH 2

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBA9	A

1 MR



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REVISIONS		
CHK	CHANGE NO.	REV

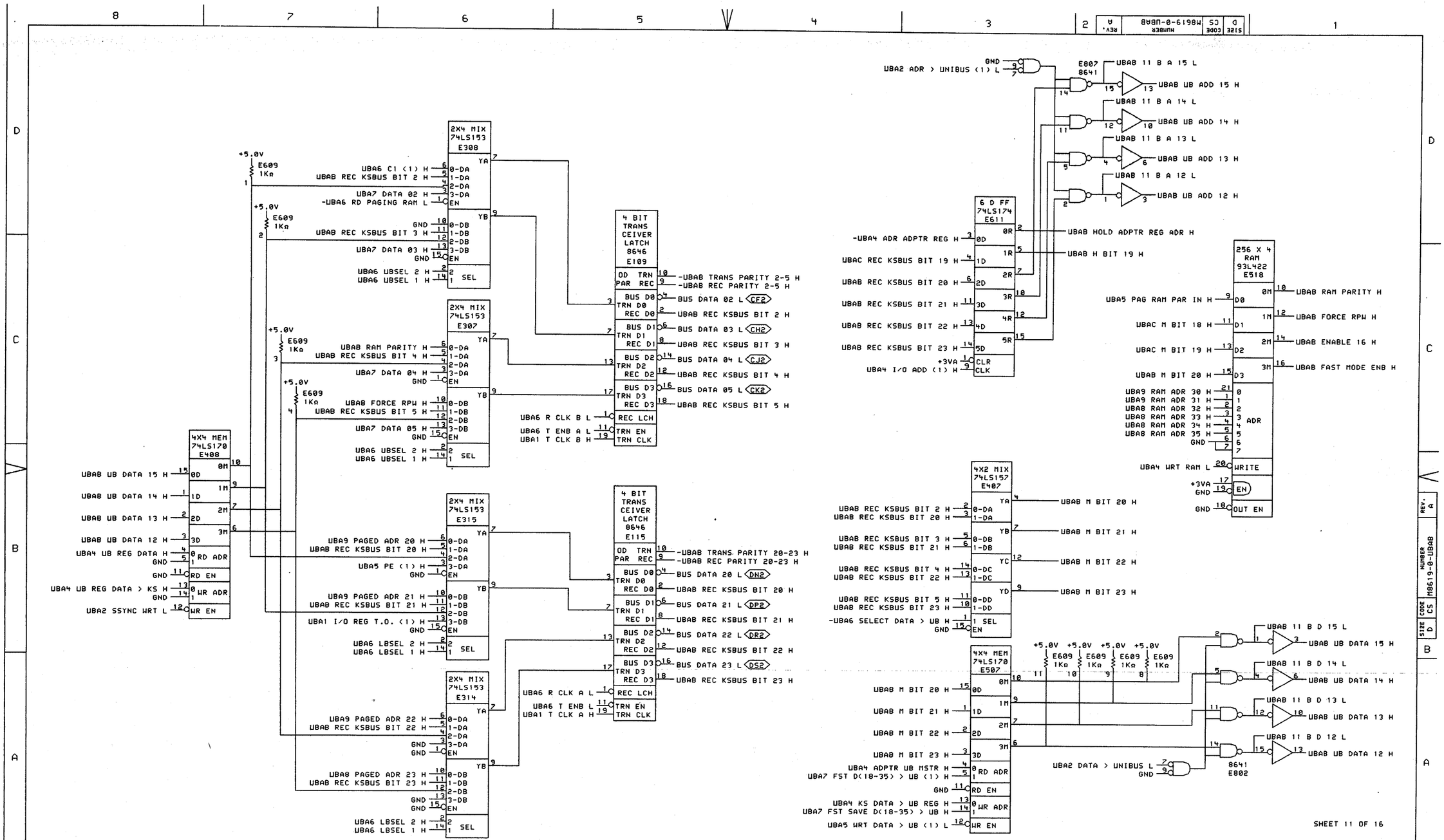
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DRN T.Toomey 11-APR-78 | ENG. | DATE | BOARD LOCATION:
CHK D. | DATE | SHEET 1 OF 1
UBAA.DRW[4,650] 11-APR-78 10:42
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8619-0

TITLE: UNIBUS ADAPTER DATA PATH 3

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAA	A

SIZE D | CODE CS | NUMBER M8619-0-UBAA | REV. A



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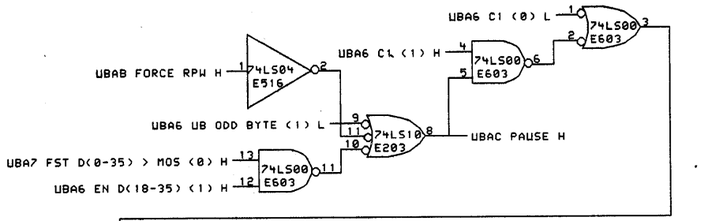
REVISIONS		
CHK	CHANGE NO.	REV

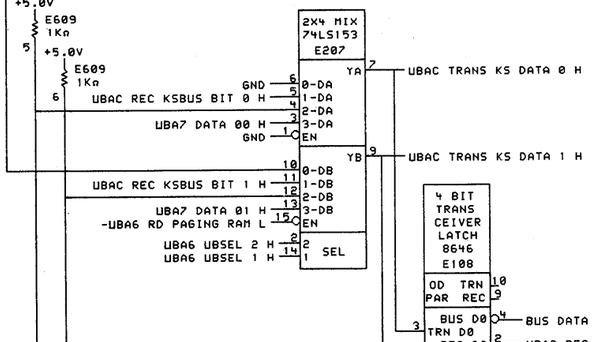
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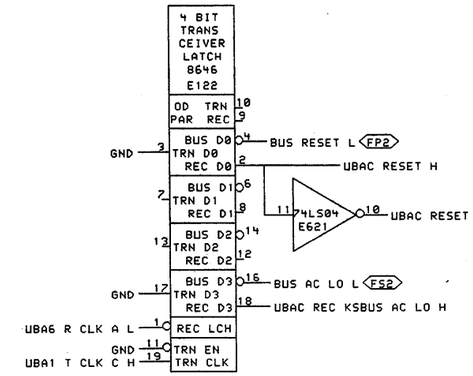
DRN	DATE 11-APR-78	ENG.	DATE
CHK'D	DATE	BOARD LOCATION:	
UBAB.DRW[4,650]	11-APR-78 10:37	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8619-0	

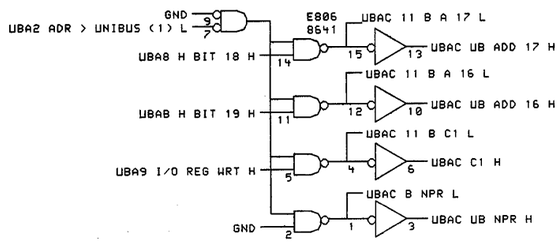
TITLE: UNIBUS ADAPTER DATA PATH 4

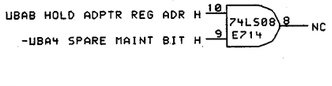
SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAB	A

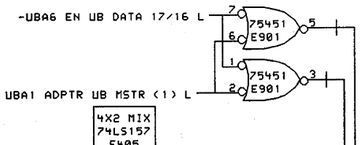


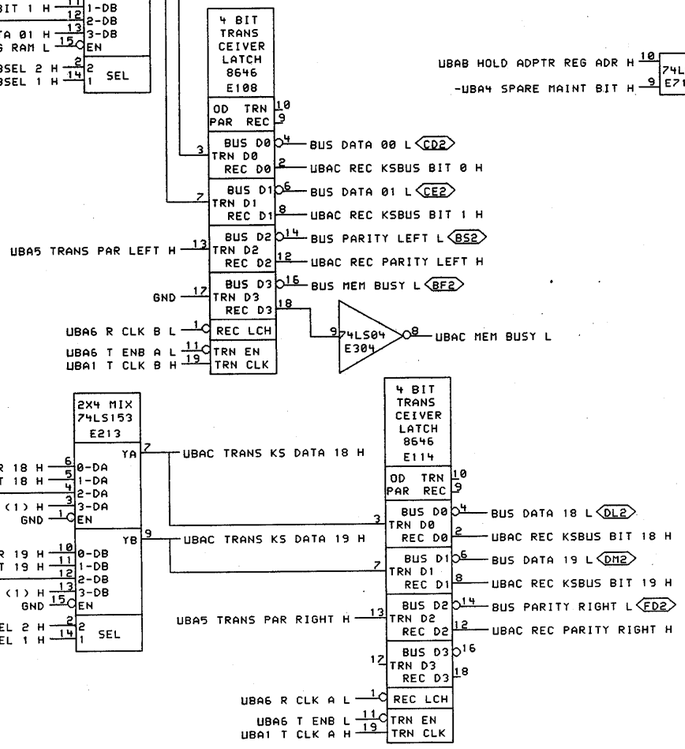


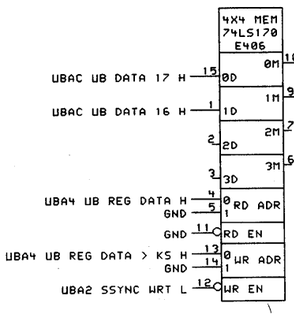


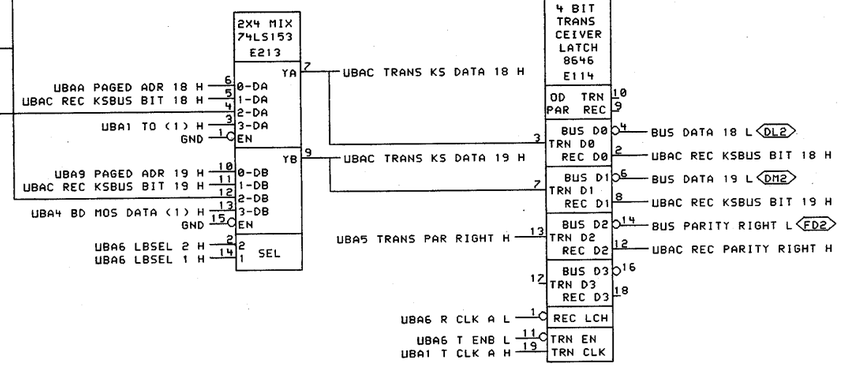


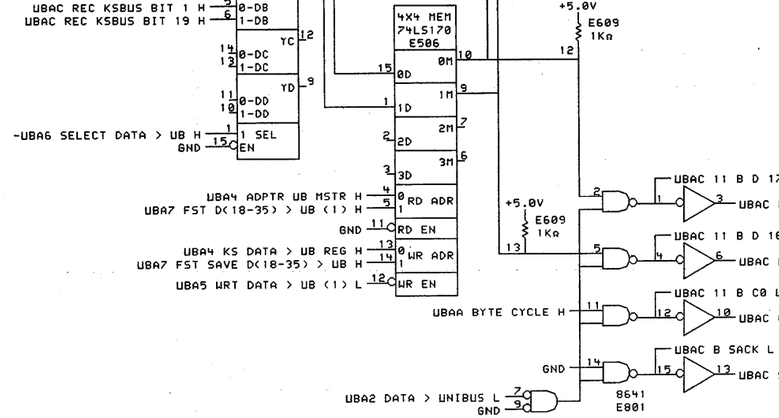












SHEET 12 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. Toomey 07-APR-78 | ENG. | DATE | CHK'D | DATE | BOARD LOCATION: | SHEET 1 OF 1

UBAC.DRW[4,650] 07-APR-78 01:39 | NEXT HIGHER ASSEMBLY: | FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8619-0

TITLE: UNIBUS ADAPTER DATA PATH 5

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAC	A

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAD	A

UBA8 11 B D 0 L	UBAA 11 B D 10 L	UBA8 11 B A 2 L	UBAB 11 B A 12 L	UBA2 11 B DC LO L	UBA2 11 B AC LO L	
UBA8 11 B D 1 L	UBAA 11 B D 11 L	UBA8 11 B A 3 L	UBAB 11 B A 13 L	UBAE B BR4 L		
UBA8 11 B D 2 L	UBAB 11 B D 12 L	UBA9 11 B A 4 L	UBAB 11 B A 14 L	UBAE B BR5 L		
UBA8 11 B D 3 L	UBAB 11 B D 13 L	UBA9 11 B A 5 L	UBAB 11 B A 15 L	UBAE B BR6 L		
UBA9 11 B D 4 L	UBAB 11 B D 14 L	UBA9 11 B A 6 L	UBAC 11 B A 16 L	UBAE B BR7 L		
UBA9 11 B D 5 L	UBAB 11 B D 15 L	UBA9 11 B A 7 L	UBAC 11 B A 17 L	UBAC 11 B C0 L		
UBA9 11 B D 6 L	UBAC 11 B D 16 L	UBAA 11 B A 8 L	UBA2 11 B MSYNC L	UBA2 11 B INIT L		
UBA9 11 B D 7 L	UBAC 11 B D 17 L	UBAA 11 B A 9 L	UBA2 11 B SSYNC L	UBA2 11 B BUSY L		
UBAA 11 B D 8 L	UBA8 11 B A 0 L	UBAA 11 B A 10 L	UBAC 11 B C1 L	UBAC B SACK L		
UBAA 11 B D 9 L	UBA8 11 B A 1 L	UBAA 11 B A 11 L	UBA2 11 B INT L	UBAC B NPR L		

SHEET 13 OF 16

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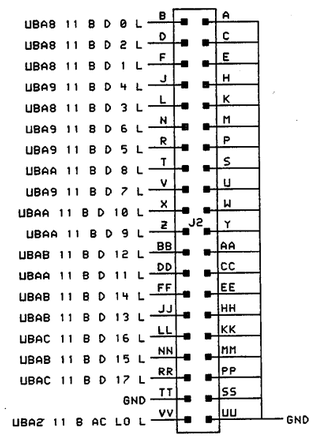
REVISIONS		
CHK	CHANGE NO.	REV

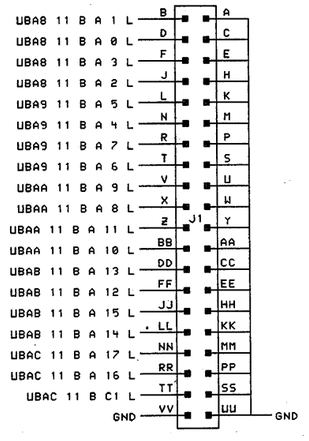
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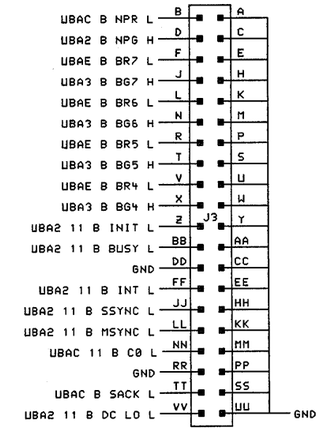
DRW. D. Toomey	DATE 10-APR-78	ENG.	DATE
CHK'D.	DATE	BOARD LOCATION:	
UBAD.DRW[4,650]	07-APR-78 00:32	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8619-0	

TITLE: UNIBUS ADAPTER TERMINATION

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAD	A







SHEET 14 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. G.Toomey DATE 13-APR-78 ENG. DATE
CHK'D. DATE BOARD LOCATION:
SHEET 1 OF 1
UBAE.DRW[4,650] 13-APR-78 16:02 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8619-0

TITLE: UNIBUS ADAPTER
UNIBUS CONNECTOR

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAE	A

1 MR

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAF	A

+5.0V	GND	TTL G#18

C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120
10nF 50V																			

C121	C122	C123	C201	C202	C203	C204	C205	C206	C207	C208	C209	C210	C211	C212	C213	C214	C215	C216	C217
10nF 50V																			

C218	C219	C220	C221	C222	C223	C301	C302	C303	C304	C305	C306	C307	C308	C309	C310	C311	C312	C313	C314
10nF 50V																			

C315	C316	C317	C318	C319	C320	C321	C322	C323	C401	C402	C403	C404	C405	C406	C407	C408	C409	C410	C411
10nF 50V																			

C412	C413	C414	C415	C416	C417	C418	C419	C420	C421	C422	C423	C501	C502	C503	C504	C505	C506	C507	C508
10nF 50V																			

C509	C510	C511	C512	C513	C514	C515	C516	C517	C518	C519	C520	C521	C522	C523	C601	C602	C603	C604	C605
10nF 50V																			

C606	C607	C608	C609	C610	C611	C612	C613	C614	C615	C616	C619	C620	C621	C622	C623	C701	C702	C703	C704
10nF 50V																			

C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C721	C722	C723	C801
10nF 50V																			

C802	C803	C804	C805	C806	C807	C808	C809	C810	C811	C812	C813	C814	C815	C816	C817	C818	C819	C820	C821
10nF 50V																			

C822	C823	C901	C914	C915	C916	C917	C918	C919	C920	C921	C922	C923	C1	C2	C3	C4	C5	C6
10nF 50V													68µF 15V	68µF 15V	68µF 15V	68µF 15V	68µF 15V	68µF 15V

SHEET 15 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

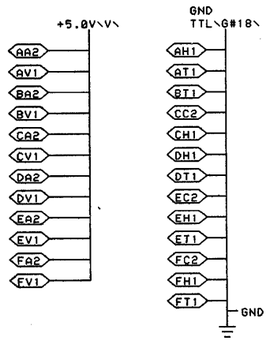
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DRN	D.Toomey	DATE	10-APR-78	ENG.		DATE	
CHK	'D.	DATE		BOARD LOCATION:			
UBAF.DRW[4,650]		07-APR-78 00:34		SHEET 1 OF 1			
FIRST USED ON OPTION/MODEL:		KS10		NEXT HIGHER ASSEMBLY:		B-DD-M8619-0	

TITLE: UNIBUS ADAPTER +5.0V CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAF	A

1 MR



AA1 — NC	AP1 — NC	BK2 — NC	CK1 — NC	DU1 — NC	FB1 — NC
AB1 — NC	AP2 — NC	BL1 — NC	CL1 — NC	DU2 — NC	FB2 — NC
AB2 — NC	AR1 — NC	BM1 — NC	CM1 — NC	DV2 — NC	FC1 — NC
AC1 — NC	AR2 — NC	BN1 — NC	CN1 — NC	EA1 — NC	FD1 — NC
AD1 — NC	AS1 — NC	BP1 — NC	CP1 — NC	EB1 — NC	FE1 — NC
AD2 — NC	AS2 — NC	BP2 — NC	CR1 — NC	EC1 — NC	FF1 — NC
AE1 — NC	AT2 — NC	BR1 — NC	CT2 — NC	ED1 — NC	FJ1 — NC
AE2 — NC	AU1 — NC	BR2 — NC	CU1 — NC	EE1 — NC	FK1 — NC
AF2 — NC	AU2 — NC	BS1 — NC	CU2 — NC	EF1 — NC	FL1 — NC
AH2 — NC	AV2 — NC	BT2 — NC	CV2 — NC	EK1 — NC	FM1 — NC
AJ1 — NC	BA1 — NC	BU1 — NC	DA1 — NC	EL1 — NC	FN1 — NC
AJ2 — NC	BB1 — NC	BU2 — NC	DB1 — NC	EM1 — NC	FP1 — NC
AK1 — NC	BB2 — NC	BV2 — NC	DC1 — NC	EN1 — NC	FR1 — NC
AK2 — NC	BC1 — NC	CA1 — NC	DL1 — NC	EP1 — NC	FR2 — NC
AL1 — NC	BD1 — NC	CB1 — NC	DM1 — NC	ER1 — NC	FS1 — NC
AL2 — NC	BE1 — NC	CC1 — NC	DN1 — NC	ES1 — NC	FT2 — NC
AM1 — NC	BF1 — NC	CD1 — NC	DP1 — NC	EU1 — NC	FU1 — NC
AM2 — NC	BH2 — NC	CE1 — NC	DR1 — NC	EU2 — NC	FU2 — NC
AN1 — NC	BJ1 — NC	CF1 — NC	DS1 — NC	EV2 — NC	FV2 — NC
AN2 — NC	BK1 — NC	CJ1 — NC	DT2 — NC	FA1 — NC	

[B,NC,-15.0V\V\] — FB2

[B,NC,[(19-N)/18+1,NC,-15.0V\V\]]
- CB2
- DB2
- EB2

- AC2 — [B,GND,GND CLK\G#20\]
- BC2 — [B,GND,GND CLK\G#20\]
- BH1 — [B,GND,GND CLK\G#20\]
- CT1 — [B,GND,GND CLK\G#20\]
- DC2 — [B,GND,GND CLK\G#20\]

SHEET 16 OF 16

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. S.Toomey — DATE 11-APR-78 — ENG. — DATE
CHK. — DATE — BOARD LOCATION:
UBAH.DRW[4,650] 11-APR-78 10:05 — SHEET 1 OF 1 — NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8619-0

TITLE: UNIBUS ADAPTER POWER,GND PINS

SIZE	CODE	NUMBER	REV.
D	CS	M8619-0-UBAH	A

1 MR

SIZE	CODE	NUMBER	REV.
B	DD	M862Ø-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M862Ø-Ø-Ø	5		KS1Ø DATA PATH EXECUTE	A
K-PL-M862Ø-Ø-DBP	2		PARTS LIST DATA BASE (M862Ø)	A
D-CS-M862Ø-Ø-DPE1	1		DATA PATH EXEC, DP LEFT	A
D-CS-M862Ø-Ø-DPE2	1		DATA PATH EXEC, DP RIGHT	A
D-CS-M862Ø-Ø-DPE3	1		DATA PATH EXEC, DBUS LEFT	A
D-CS-M862Ø-Ø-DPE4	1		DATA PATH EXEC, DBUS RIGHT	A
D-CS-M862Ø-Ø-DPE5	1		DATA PATH EXEC, CONTROL	A
D-CS-M862Ø-Ø-DPE6	1		DATA PATH EXEC, RAMFILE ADDRESS	A
D-CS-M862Ø-Ø-DPE7	1		DATA PATH EXEC, RAMFILE LEFT	A
D-CS-M862Ø-Ø-DPE8	1		DATA PATH EXEC, RAMFILE RIGHT	A
D-CS-M862Ø-Ø-DPE9	1		DATA PATH EXEC, P.C. FLAGS	A
D-CS-M862Ø-Ø-DPEA	1		DATA PATH EXEC, IR, SKIP & DISP	A
D-CS-M862Ø-Ø-DPEB	1		DATA PATH EXEC, PRIORITY INTERRUPT	A
D-CS-M862Ø-Ø-DPEC	1		DATA PATH EXEC, POWER, GND, CAPS	A
E-MD-5013195-0-0	7		DRILL WIRE & COMP SCREEN DRAWING	A
	-	5013195	MULTIWIRE BOARD	A
K-PC-M862Ø-Ø-DBC	-		MULTIWIRE DATA BASE (M862Ø)	A
	-			
POO-M862Ø-ØØ	-		PROCESS SHEET	REF

NOTES:

REVISIONS	
REV.	X
CHG NO.	ORIG
DATE	X

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digital

USED ON OPTION/MODEL	
KS1Ø	

DRN.	R.W. Counter	8 Mar 78
CHK'D	R.W. Counter	13 Mar 78
ENG.	Harold Levine	4 APR 78
PROD	W. Bishop	4 Apr 78

TITLE: KS1Ø DATA PATH EXECUTE

SIZE	CODE	NUMBER	REV.
B	DD	M862Ø-Ø	A

SHEET 1 OF 2

DRB 126

MK

SIZE	CODE	NUMBER	REV.
B	DD	M8620-0	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
		23036D1	I.C. PROM E113	1
		23037D1	I.C. PROM E114	1
		23038D1	I.C. PROM E115	1

NOTES:

REVISIONS	
REV.	X
CHG NO.	ORIG
DATE	X

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digital

USED ON OPTION/MODEL
KS10

DRN.	R W Counter	13 Mar 78
CHK'D	R W Counter	4 Apr 78
ENG.	Donald Levine	14 APR 78
PROD.	W. Bishop	4 Apr. 78

TITLE: KS10 DATA PATH EXECUTE

SIZE	CODE	NUMBER	REV.
B	DD	M8620-0	A

SHEET 2 OF 2

MR

DRB 126

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53 (QTY 12)

52

Ø 13

Ø 15

Ø 17

Ø 19

Ø 18

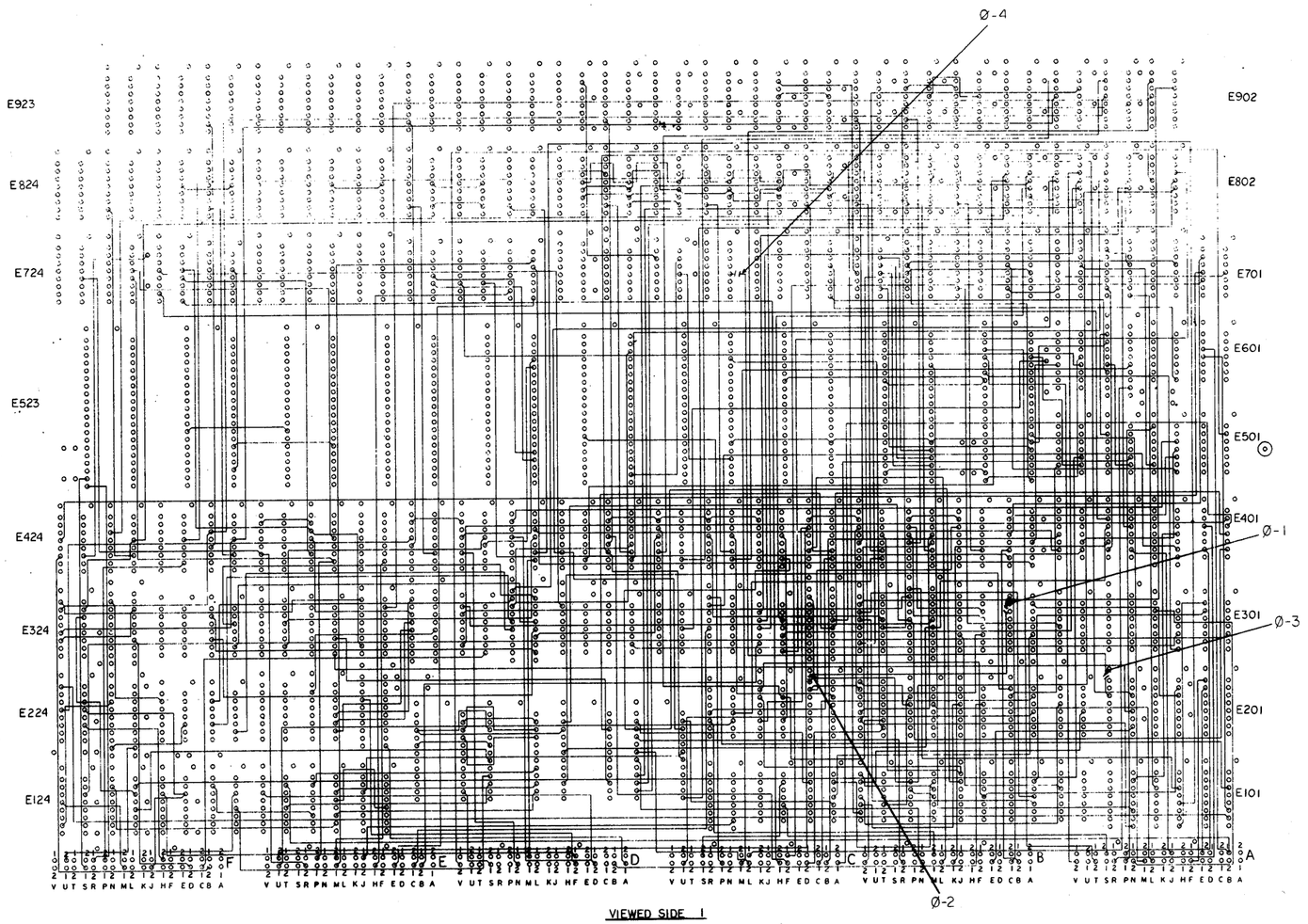
Ø 16

Ø 14

Ø 12

DIGITAL	DRN.	DATE 25-OCT-77	ENG.	DATE 1-NOV-77	TITLE: DATA PATH EXECUTE UNIT ASSEMBLY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CK'D.	DATE	APPROVED		
FIRST USED ON OPTION-MODEL: KS10	NEXT HIGHER ASSEMBLY: B-DD-M8620-0				SIZE E	CODE 1JA	NUMBER M8620-0	REV. A

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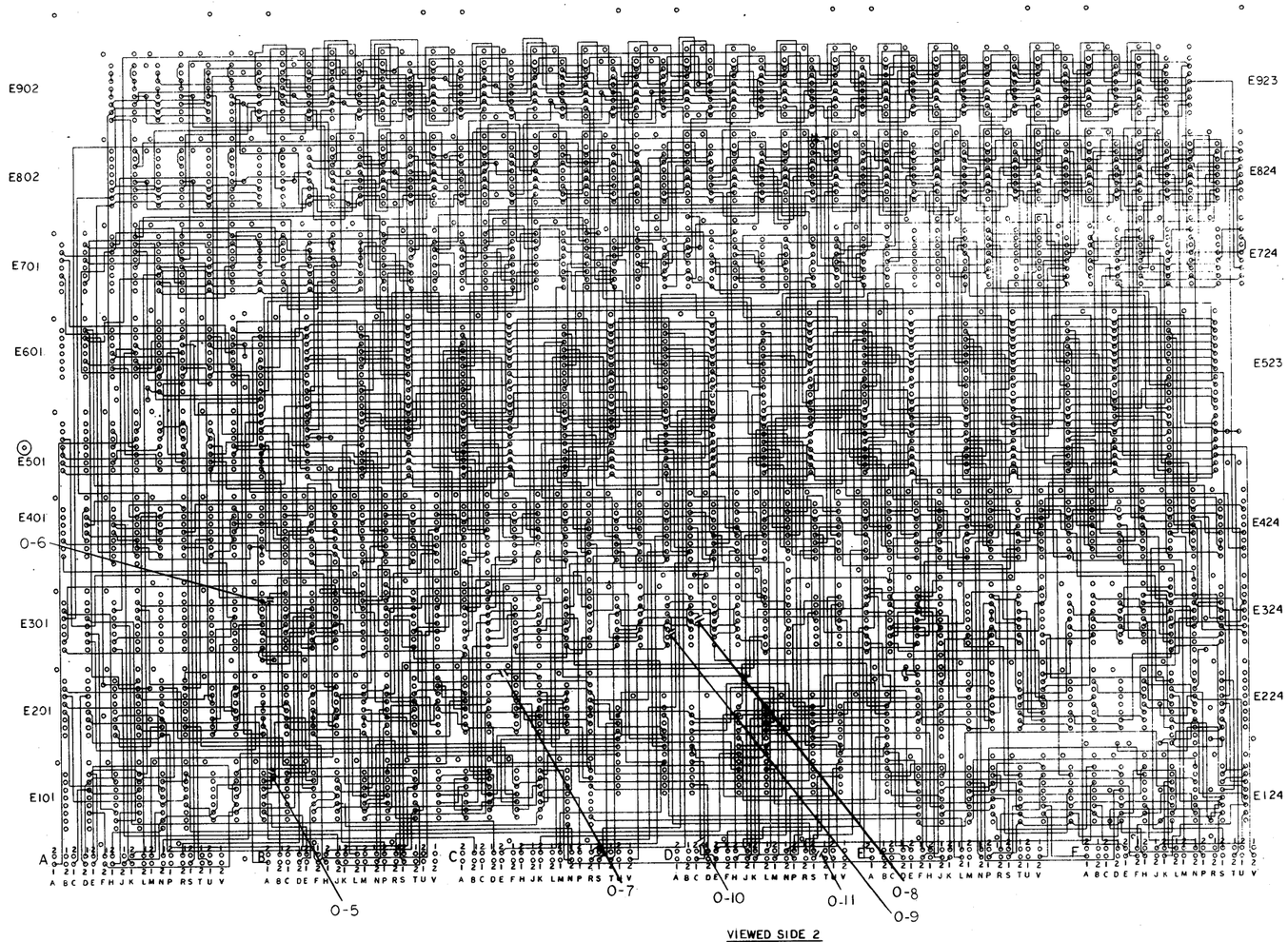
VIEWED SIDE 1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
DATA PATH EXECUTE	E	UA	M8620-Ø-Ø	A
SCALE 2/1	SHEET 2 OF 5		DIST.	

NEXT ASSY M8620-Ø-Ø REV A

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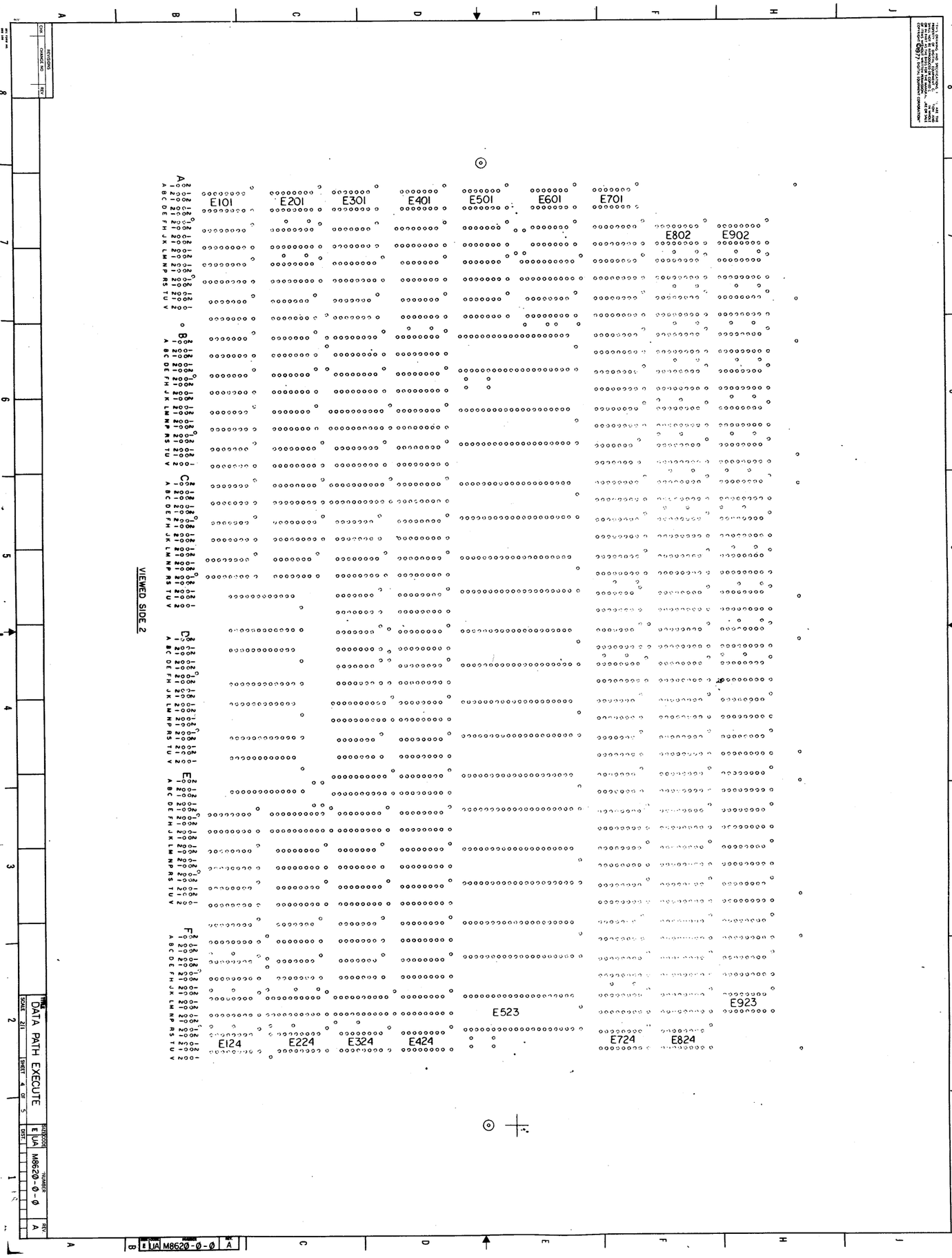


VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV
DATA PATH EXECUTE	E	UA	M8620-0-0	A
SCALE 2/1	SHEET 3 OF 5		DIST.	

M8620-0-0 REV A



DATA PATH EXECUTE

SCALE	SIZE	CODE	NUMBER	REV
2/1	E	UA	M8620-0-0	A
SHEET 4 OF 5	DIST			

E UA M8620-0-0 A

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NOTES:

1. FOR DRAWING DIRECTORY SEE B-DD-M8620-0.
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	+5,CV	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
20 PIN DIP	20	10
24 PIN DIP	24	12
40 PIN DIP	10	30
DEC 8646	20	5,15

3. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
4. MAXIMUM COMPONENT HEIGHT IS .278
5. FINISHED HOLE SIZES ARE AS FOLLOW, IN INCHES:
   - ◊ = .037 ±.003
   - ◊ = .133 +.002,-.007
   - X = .100 ±.003
   - Δ = .025 +.003,-.006
6. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON

REWORK INSTRUCTION

FIRST RELEASE

ETCH CUTS, SIDE #1, AS SHOWN:

0-1 AT E305-1
0-2 AT E209-1
0-3 AT E203-3
0-4 AT E711-12

ETCH CUTS, SIDE #2, AS SHOWN:

0-5 AT E105-12
0-6 AT E305-1
0-7 AT E209-1
0-8 AT E313-3
0-9 AT E313-12
0-10 AT FINGER PIN DE1 PTH
0-11 AT FINGER PIN DT2 PTH

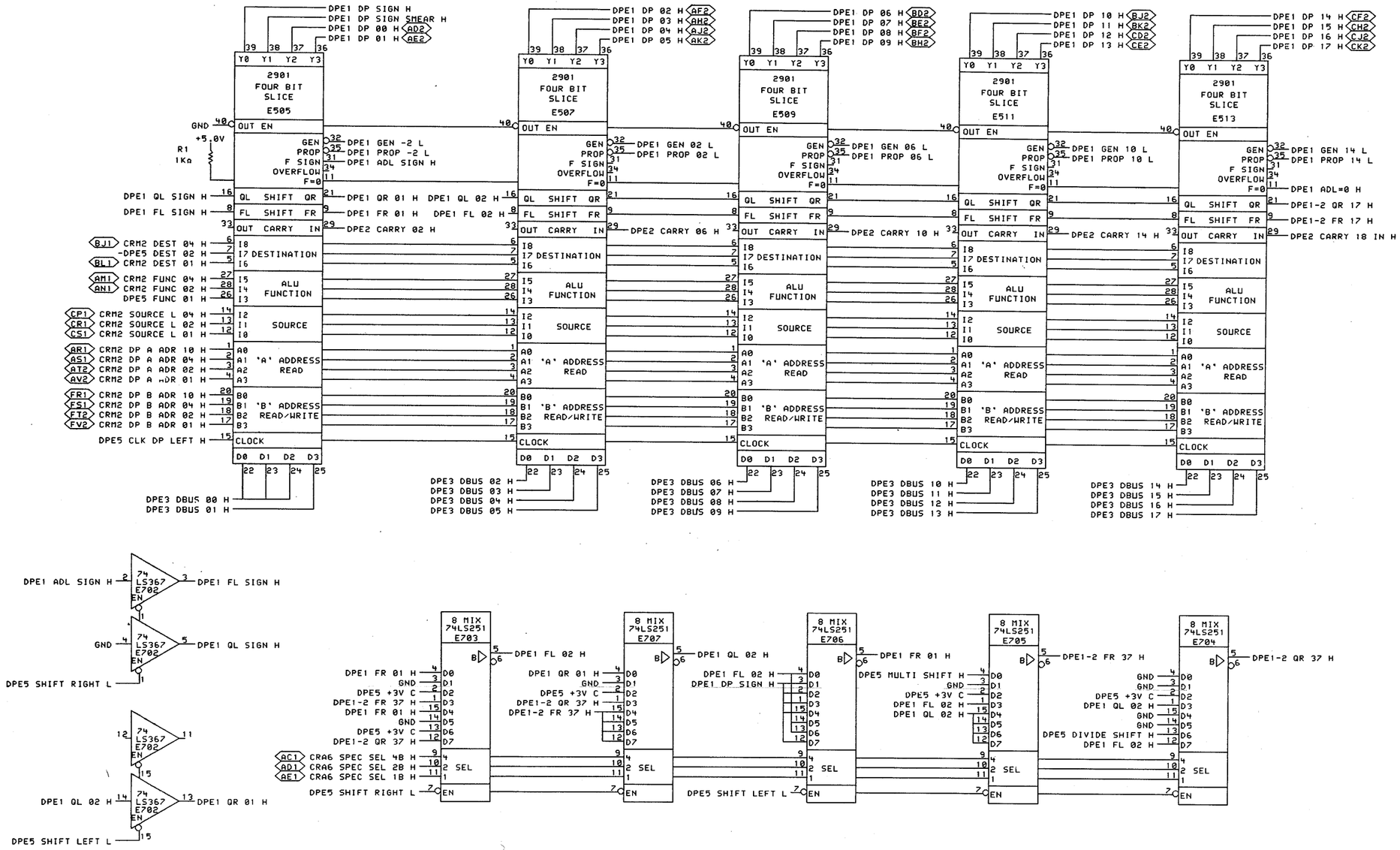
WIRE ADDS, SIDE #1, AS SHOWN

0-12 FROM E105-12 TO E209-1
0-13 FROM E30-1 TO E305-1
0-14 FROM E305-1 TO E210-1
0-15 FROM E203-3 TO E603-4
0-16 FROM E304-1 TO FINGER PIN DE1 PTH
0-17 FROM E304-2 TO E313-3
0-18 FROM E304-5 TO FINGER PIN DT2 PTH
0-19 FROM E304-6 TO E313-12

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
DATA PATH EXECUTE	E	UA	M8620-0-0	A
SCALE	SHEET 5 OF 5	DIST.		

M8620-0-0 REV A



SHEET 1 OF 12

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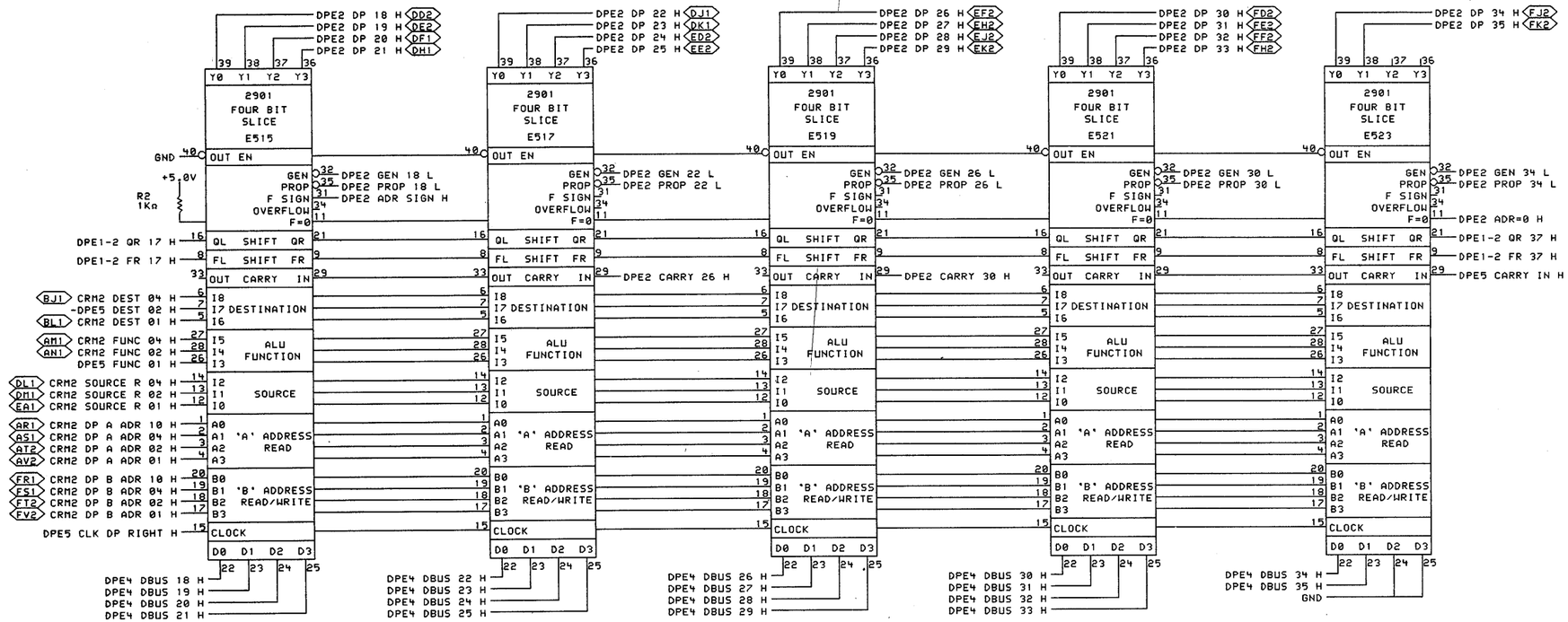
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D. Loomis 29-MAR-78 | ENG. | DATE
CHK | DATE/ | BOARD LOCATION: 1AF13
DPE1.DRW[4,651] 28-MAR-78 23:25 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8620-0

TITLE: DATA PATH EXEC DP LEFT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE1	A



SHEET 2 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital

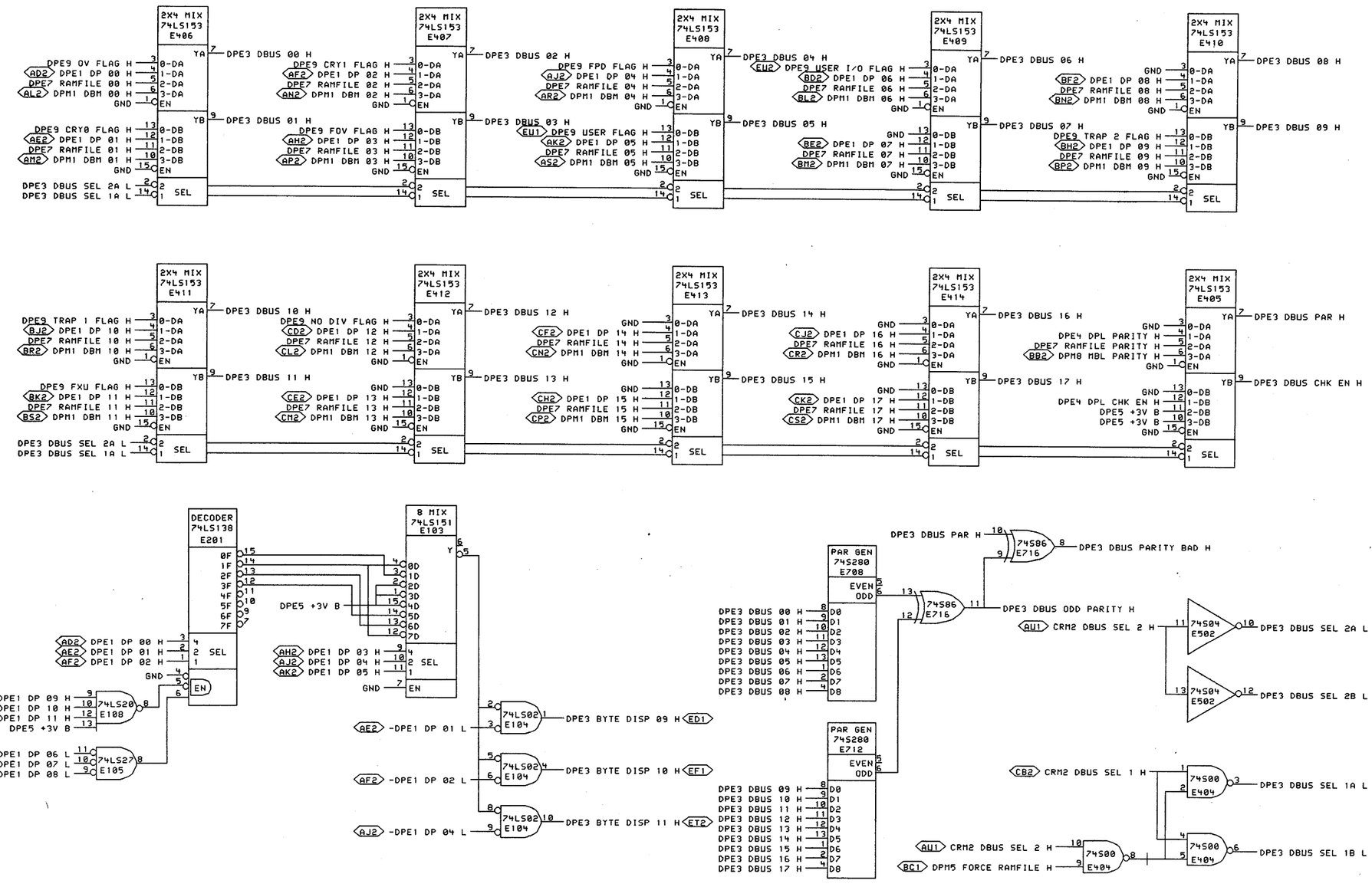
DPE2.DRW[4,651] 28-MAR-78 23:27

DRN D.Toomey DATE 29-MAR-78
CHK P. ENG. DATE
BOARD LOCATION: 1AF13
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8620-0

TITLE: DATA PATH EXEC DP RIGHT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE2	A

REV. A
NUMBER M8620-0-DPE2
SIZE D CODE CS



SHEET 3 OF 12

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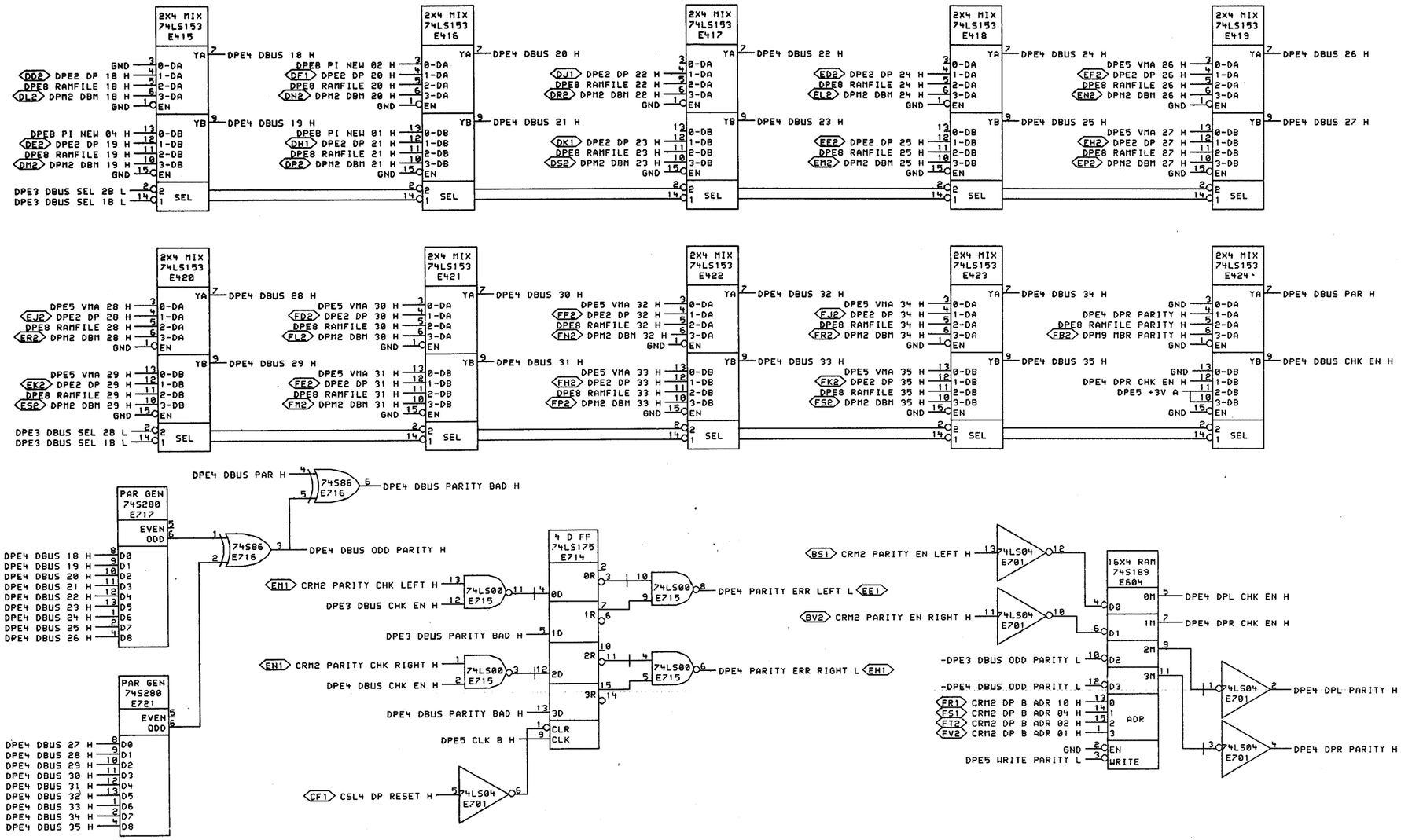
REVISIONS

CHK	CHANGE NO.	REV

DRN. Toomey	DATE 29-MAR-78	ENG.	DATE
CHK	DATE	BOARD LOCATION: 1AF13	
DPE3.DRW[4,651]	28-MAR-78 23:29	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8620-0	

TITLE: DATA PATH EXEC DBUS LEFT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE3	A



SHEET 4 OF 12

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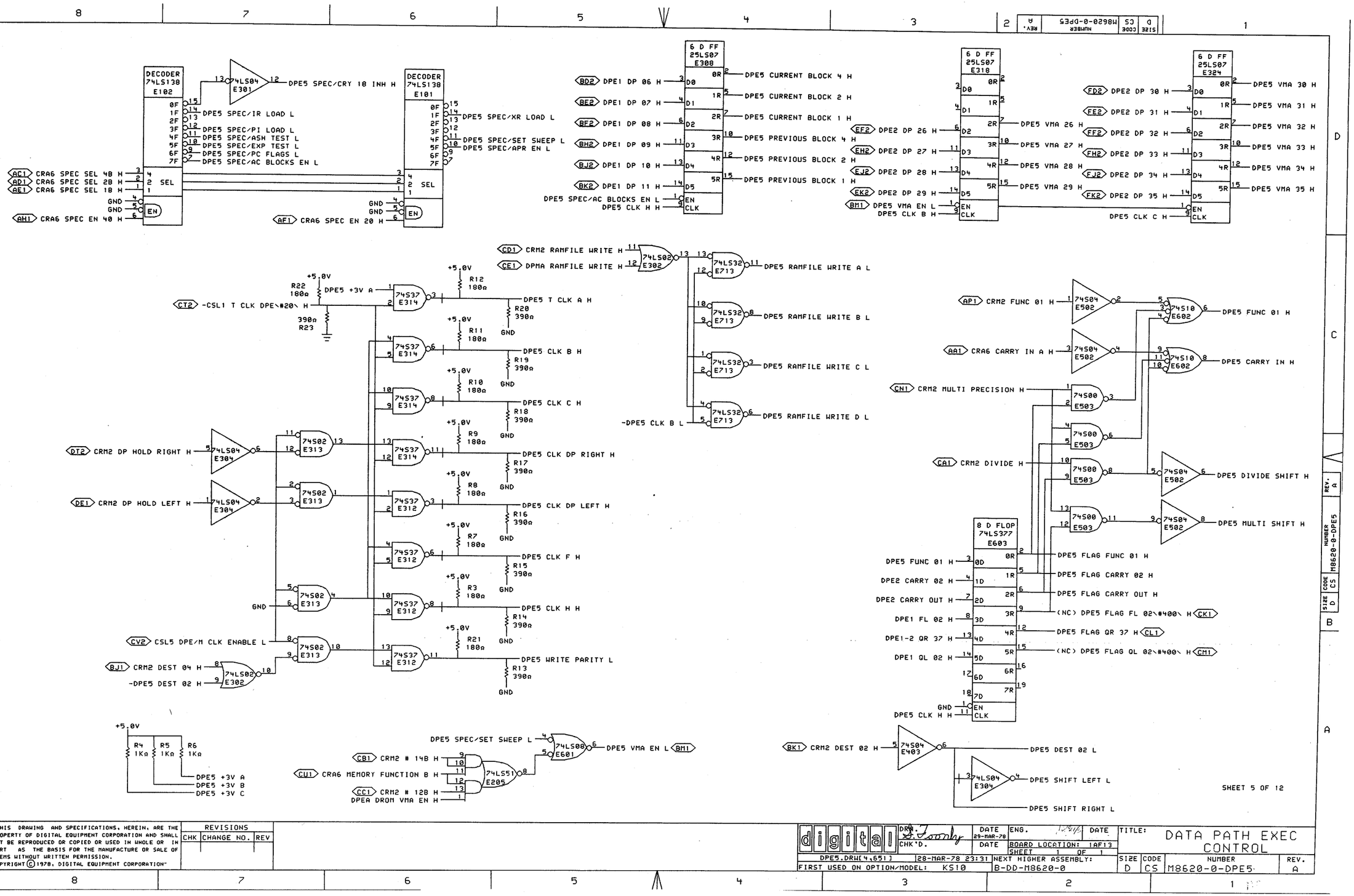
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D. Toomey DATE 14-MAR-78 ENG. DATE
CHK D. DATE BOARD LOCATION: 1AF13
SHEET 1 OF 1
DPE4.DRW[4,651] 14-MAR-78 18:57 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8620-0

TITLE: DATA PATH EXEC DBUS RIGHT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE4	A



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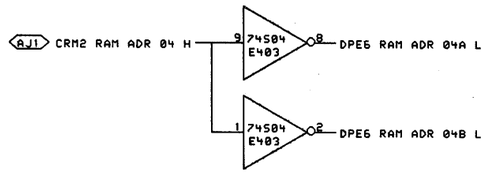
REVISIONS		
CHK	CHANGE NO.	REV

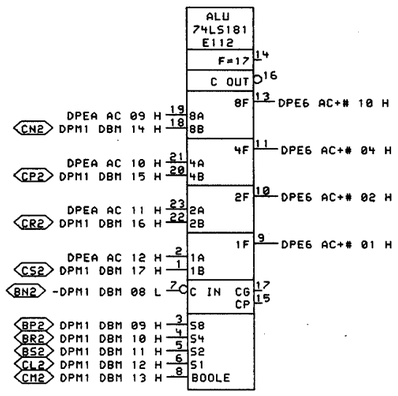
digital

DRN. S. Toomey
CHK'D.
DATE 29-MAR-78
ENG.
DATE
DATE
BOARD LOCATION: 1AF13
SHEET 1 OF 1
DPE5.DRW[4,551] 28-MAR-78 23:31
NEXT HIGHER ASSEMBLY: B-DD-M8620-0
FIRST USED ON OPTION/MODEL: KS10

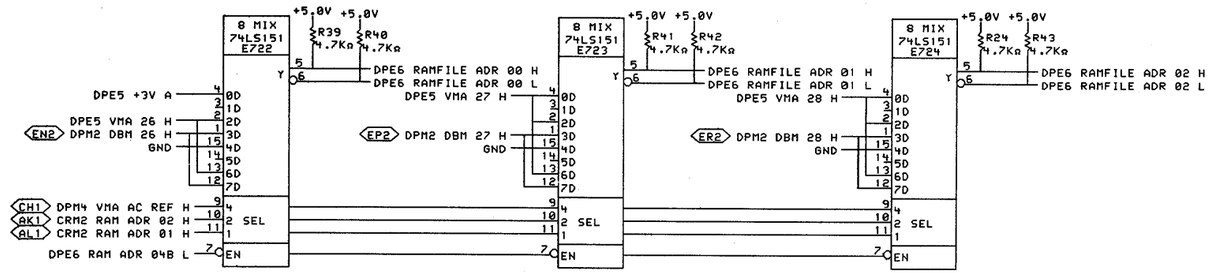
TITLE: DATA PATH EXEC CONTROL

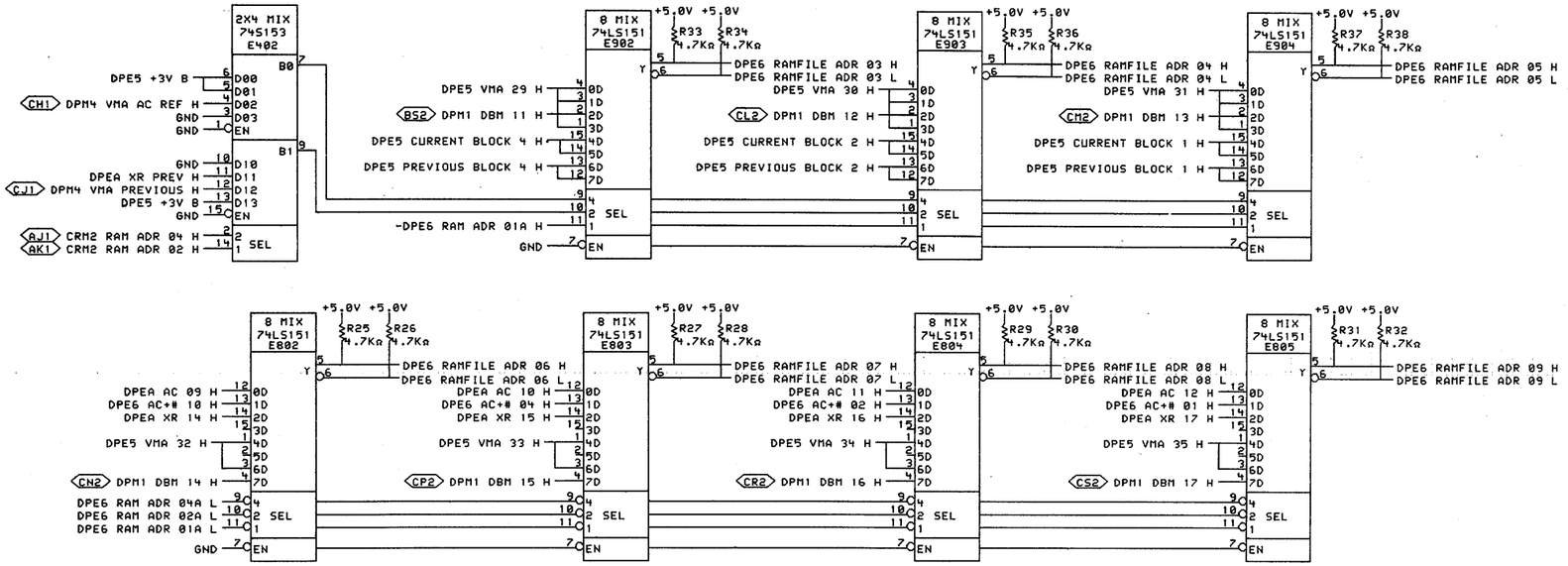
SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE5	A





CRM2	FUNCTION	BLOCK
0	AC	CURRENT
1	AC ,FN, #	CURRENT
2	XR	XR BLOCK
3	-	-
4	CACHE	VMA BLOCK
5	-	-
6	VMA	VMA
7	#	#





SHEET 6 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

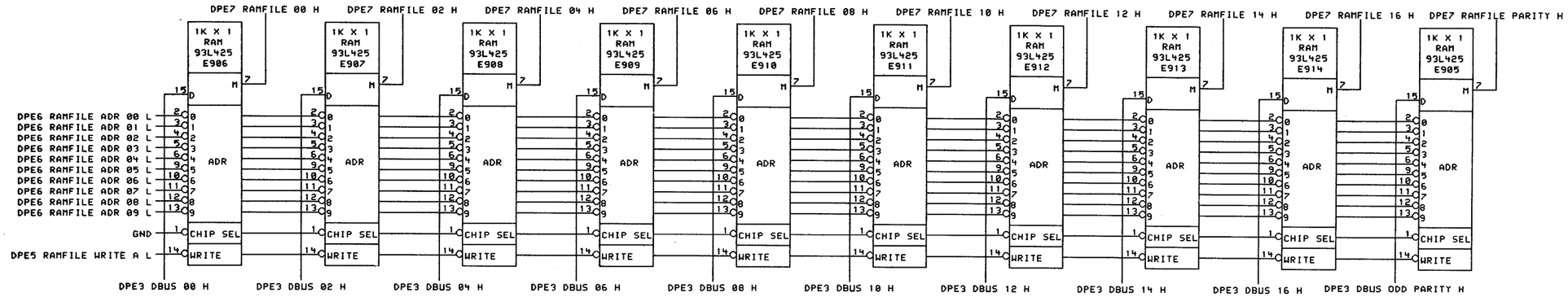
digital

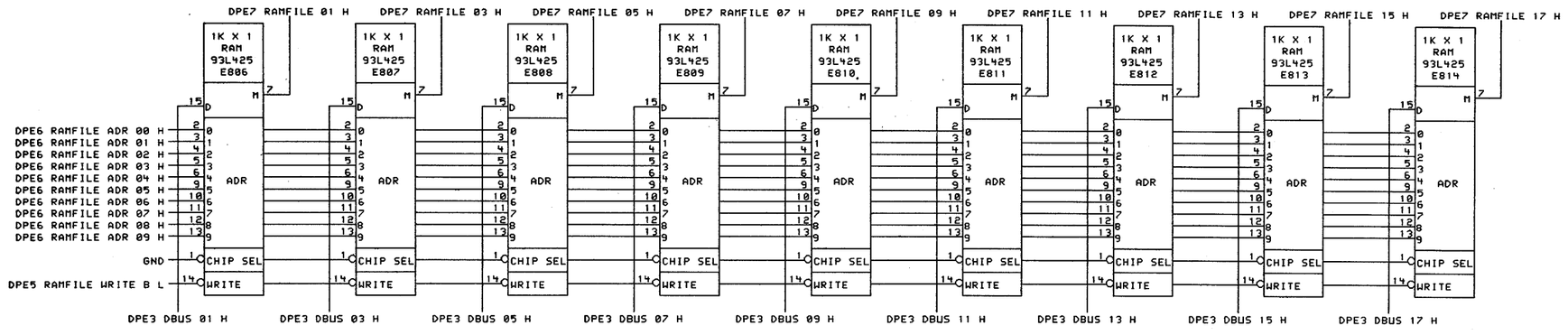
DRW. Toomey 14-MAR-78 | ENG. | DATE
CHK [illegible] DATE | BOARD LOCATION: 1AF13
DPE6.DRW[4,651] 14-MAR-78 20:01 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8620-0

TITLE: DATA PATH EXEC RAMFILE ADDRESS

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE6	A

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE6	A





SHEET 7 OF 12

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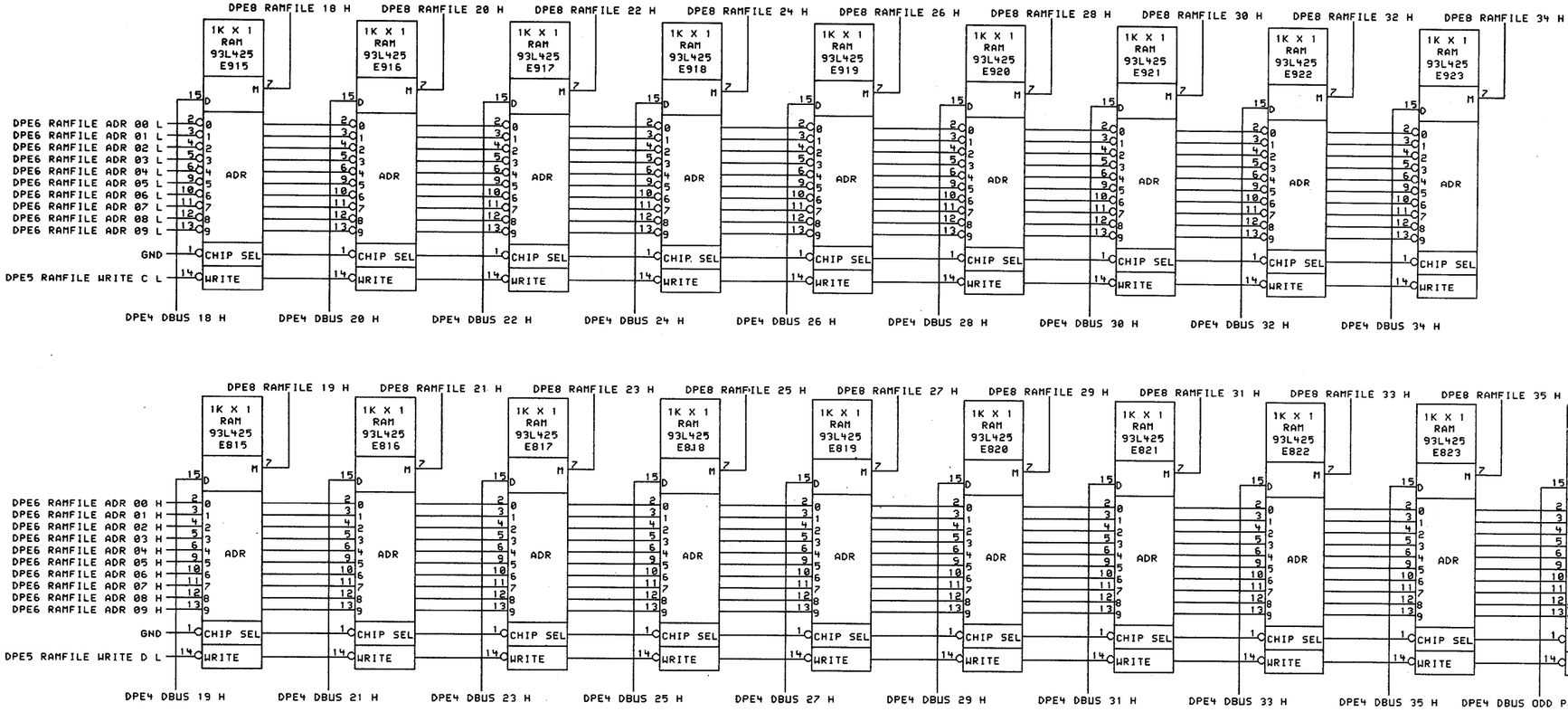
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. T.Toomby — DATE 14-MAR-78 — ENG. — DATE
CHK "D." — DATE — BOARD LOCATION: 1AF13
SHEET 1 OF 1
DPE7.DRW[4,651] 14-MAR-78 17:50
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8620-0

TITLE: DATA PATH EXEC RAMFILE LEFT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE7	A



SHEET 8 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. L. Toomey DATE 14-MAR-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF13
DPE8.DRW[4,651] 14-MAR-78 17:51 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: KS10 NEXT HIGHER ASSEMBLY: B-DD-M8620-0

TITLE: DATA PATH EXEC RAMFILE RIGHT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE8	A

SPEC/PC FLAGS USES THE # FIELD BITS AS FOLLOWS

PC FLAGS

# BIT	FUNCTION

THESE FLAGS ARE ONLY MODIFIED AT RESET OR AT SPEC/PC FLAGS TIME.

0 - SET OV FLAG
1 - SET FOV FLAG
2 - SET NO DIV FLAG

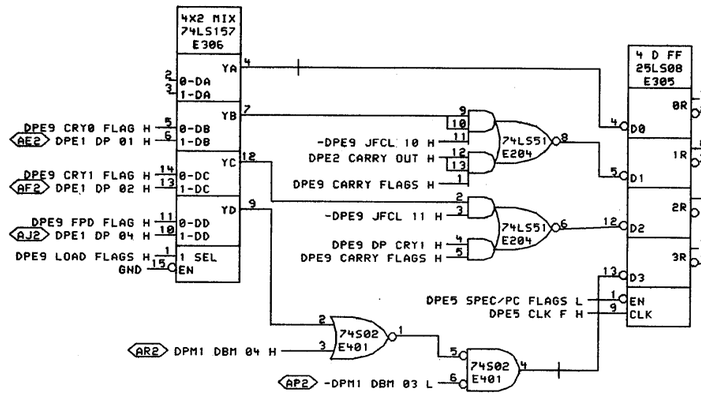
3 - CLR FPD FLAG
4 - SET FPD FLAG
5 - HOLD USER

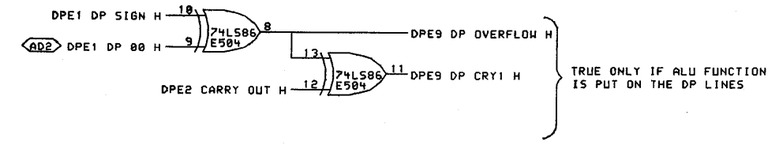
6 -
7 - SET TRAP 2 FLAG
8 - SET TRAP 1 FLAG

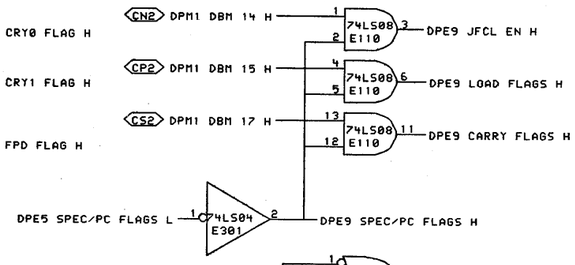
9 - SET PCU CONDITIONALLY
10 -
11 -

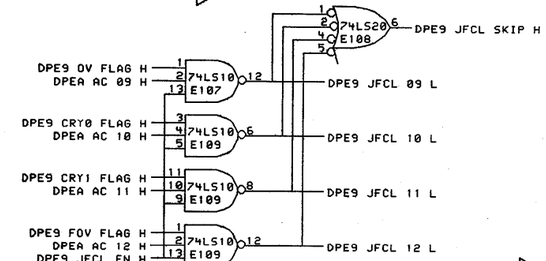
12 -
13 -
14 - JFCL

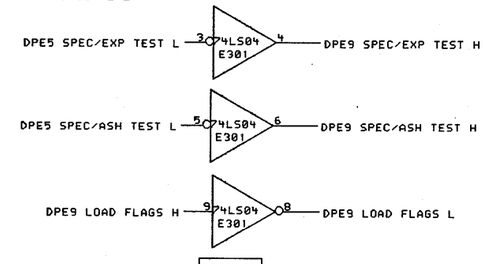
15 - LOAD PC FROM DP BUS
16 -
17 - SET CARRY FLAGS

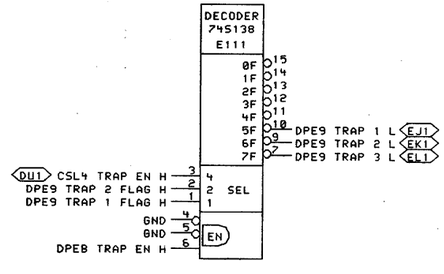


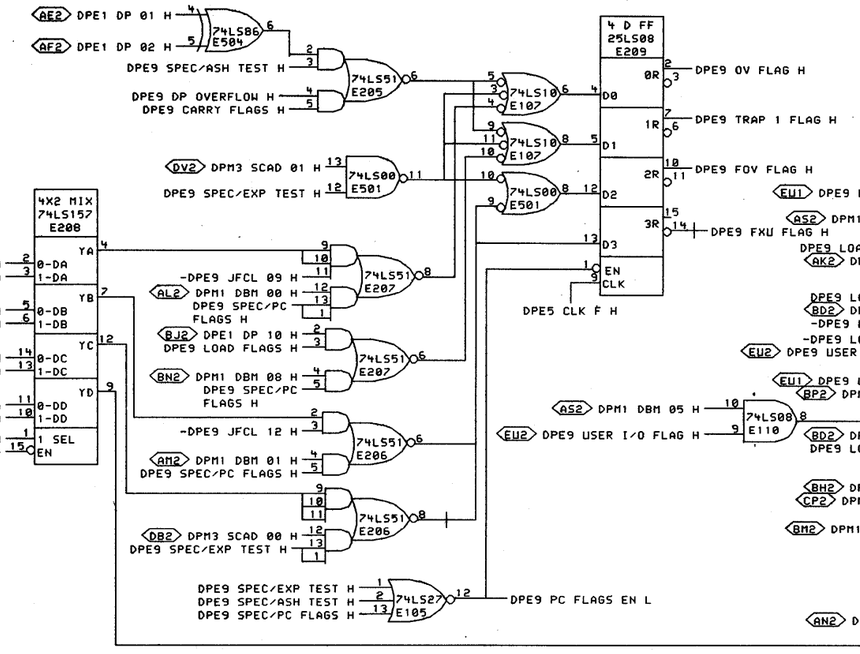


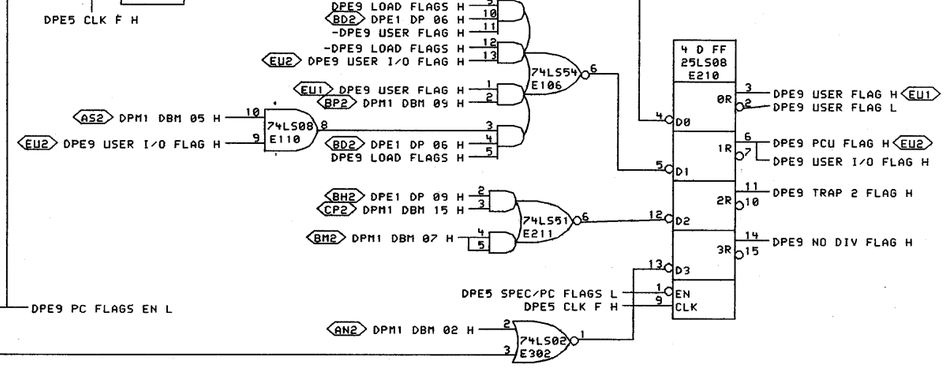












SHEET 9 OF 12

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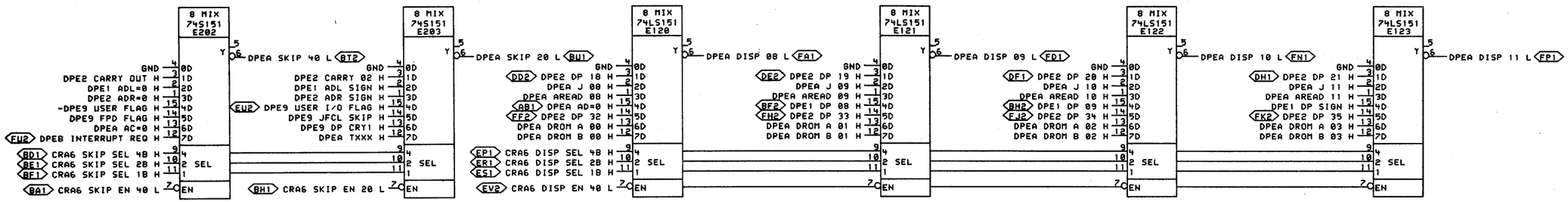
REVISIONS		
CHK	CHANGE NO.	REV

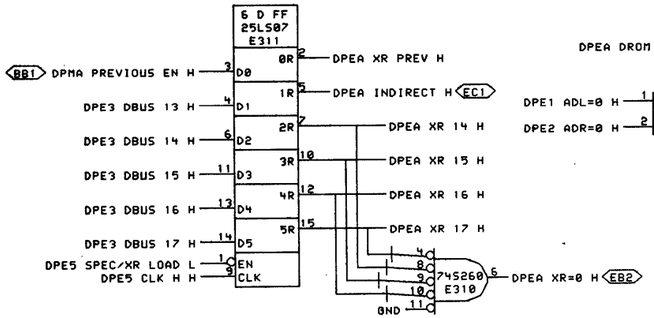
digital

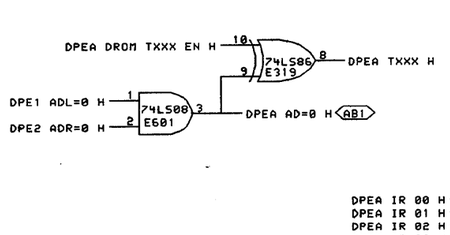
DRN S. Toomey DATE 14-MAR-78 ENG. DATE
CHK D. DATE BOARD LOCATION: 1AF13
SHEET 1 OF 1
DPE9.DRW[4,651] 14-MAR-78 18:17 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8620-0

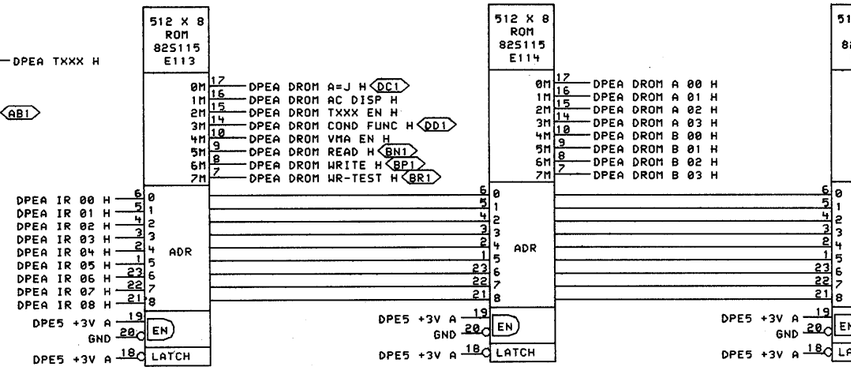
TITLE: DATA PATH EXEC P.C. FLAGS

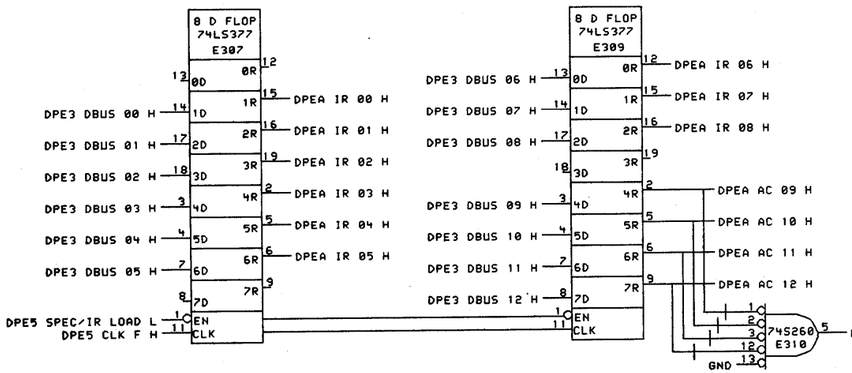
SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPE9	A

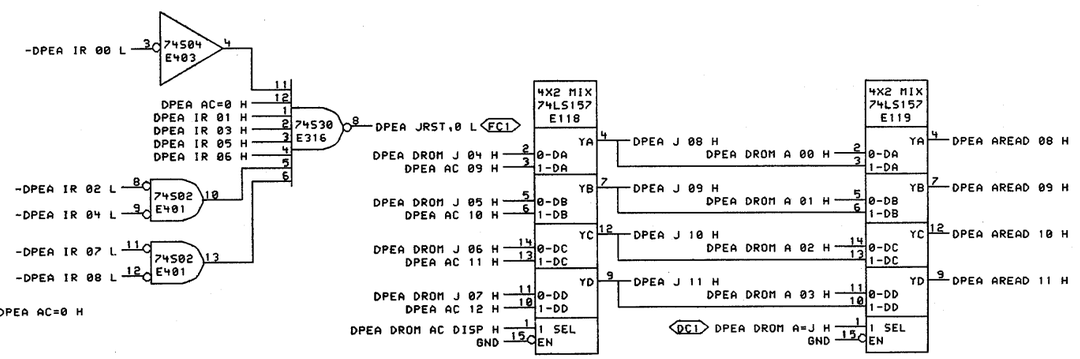












SHEET 10 OF 12

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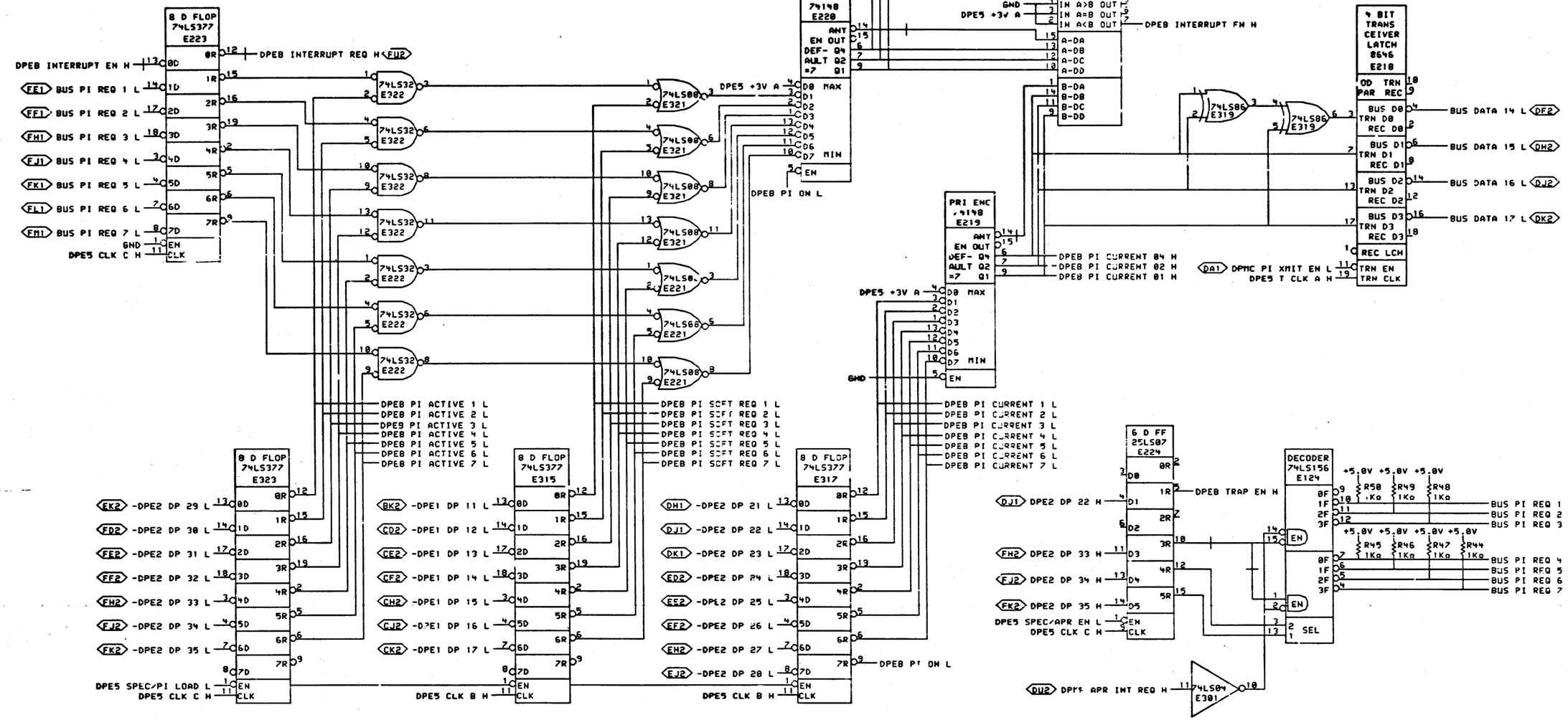
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN J. Loomby 14-MAR-78 | ENG. | DATE
CHK D. Matthewson 3/29/78 | DATE | BOARD LOCATION: 1AF13
DPEA.DRW[4,651] 14-MAR-78 18:18 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8620-0

TITLE: DATA PATH EXEC IR , SKIP & DISP

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPEA	A



SHEET 11 OF 12

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REVISIONS		
CHK	CHANGE NO.	REV

digital — DRN: Doorly — DATE: 29-MAR-78 — ENG. — DATE — DATE — SCALE: NONE — BOARD LOCATION: 1 OF 13 — SHEETS: 1 OF 1

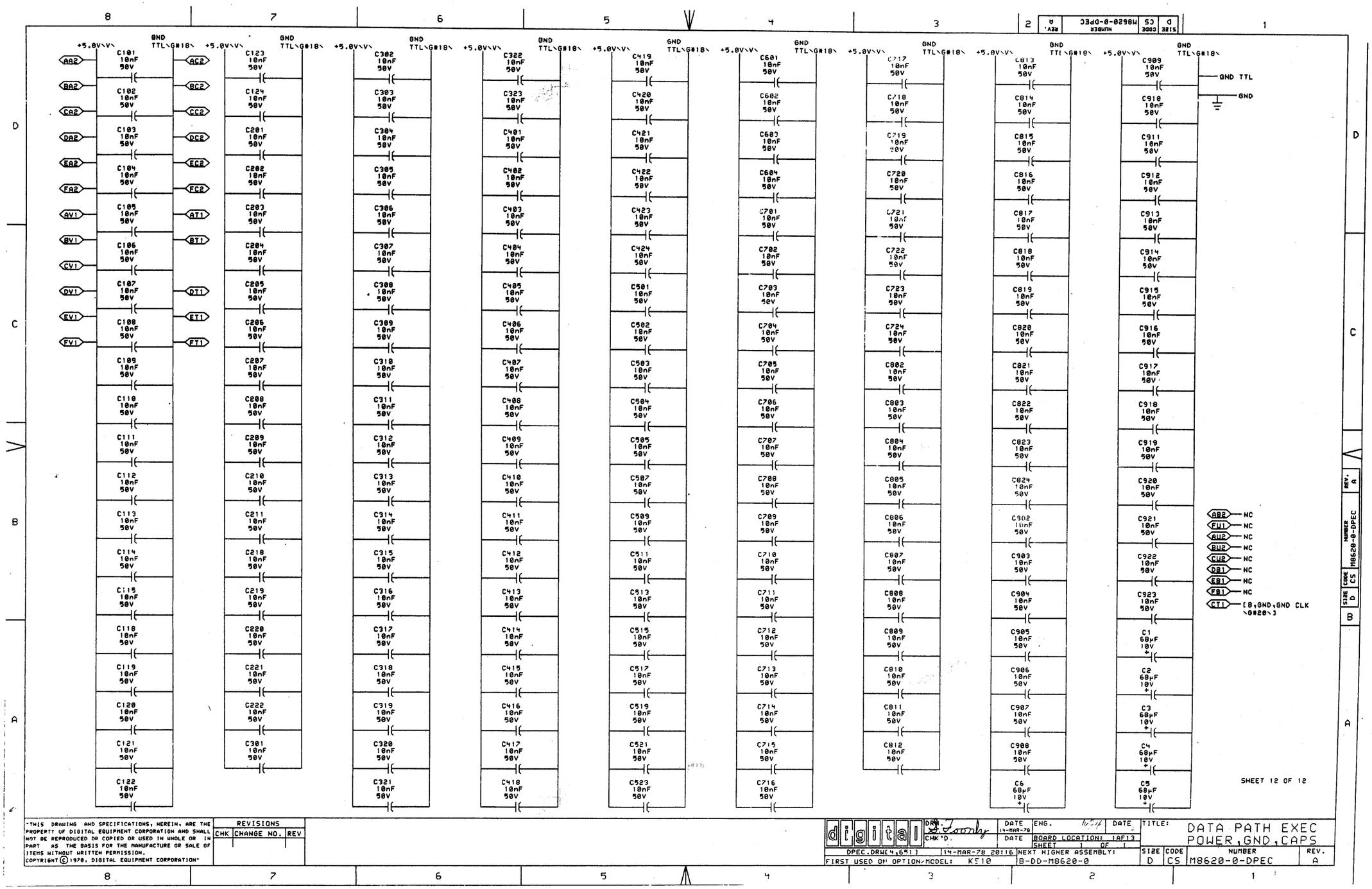
DPEB.DRW[4,65] 13-MAR-78 23:40 — NEXT HIGHER ASSEMBLY: B-DD-M8620-0

FIRST USED ON OPTION-MODEL: KS10

TITLE: DATA PATH EXEC PRIORITY INTERRUPT

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPEB	A

REV. A | NUMBER M8620-0-DPEB | CODE CS | SIZE D



SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPEC	A

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. L.Looney DATE 14-MAR-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF13
SHEET 1 OF 1

DPEC.DRW[4,651] 14-MAR-78 20:16 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8620-0

TITLE: DATA PATH EXEC POWER,GND,CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8620-0-DPEC	A

SIZE	CODE	NUMBER	REV.
B	DD	M8621-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8621-Ø-Ø	10		KS1Ø DATA PATH MEMORY	A
K-PL-M8621-Ø-DBP	2		PARTS LIST DATA BASE (M8621)	A
D-CS-M8621-Ø-DPM1	1		DATA PATH MEMORY, DBM LEFT	A
D-CS-M8621-Ø-DPM2	1		DATA PATH MEMORY, DBM RIGHT	A
D-CS-M8621-Ø-DPM3	1		DATA PATH MEMORY, STEP COUNT ADD	A
D-CS-M8621-Ø-DPM4	1		DATA PATH MEMORY, FE, SC, VMA REGS	A
D-CS-M8621-Ø-DPM5	1		DATA PATH MEMORY, MEMORY CYCLE	A
D-CS-M8621-Ø-DPM6	1		DATA PATH MEMORY, PAGE TABLE	A
D-CS-M8621-Ø-DPM7	1		DATA PATH MEMORY, CACHE DIRECTORY	A
D-CS-M8621-Ø-DPM8	1		DATA PATH MEMORY, BUS LEFT	A
D-CS-M8621-Ø-DPM9	1		DATA PATH MEMORY, BUS RIGHT	A
D-CS-M8621-Ø-DPMA	1		DATA PATH MEMORY, CONTROL	A
D-CS-M8621-Ø-DPMB	1		DATA PATH MEMORY, APR DEVICE	A
D-CS-M8621-Ø-DPMC	1		DATA PATH MEMORY, MORE CONTROL	A
D-CS-M8621-Ø-DPMD	1		DATA PATH MEMORY, POWER, GND, CAPS	A
D-CS-M8621-Ø-DPME	1		DATA PATH MEMORY, POWER, GND, CAPS	A
E-MD-5013196-0-0	7		DRILL WIRE & COMP SCREEN DRAWING	A
	-	5013196	MULTIWIRE BOARD	A
K-PC-M8621-Ø-DBC	-		MULTIWIRE DATA BASE (M8621)	A
	-			
POO-M8621-ØØ	-		PROCESS SHTS	REF

NOTES:

REVISIONS		
REV.	X	
CHG NO.	ORIG	
DATE	X	

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digital

USED ON OPTION/MODEL	
KS1Ø	

DBN.	K W Counter	22 Mar 78
CHK'D	K W Counter	22 Mar 78
ENG.	Donald Levine	7 APR 78
PROD.	D. Bishop	7 Apr 78

TITLE: KS1Ø DATA PATH MEMORY

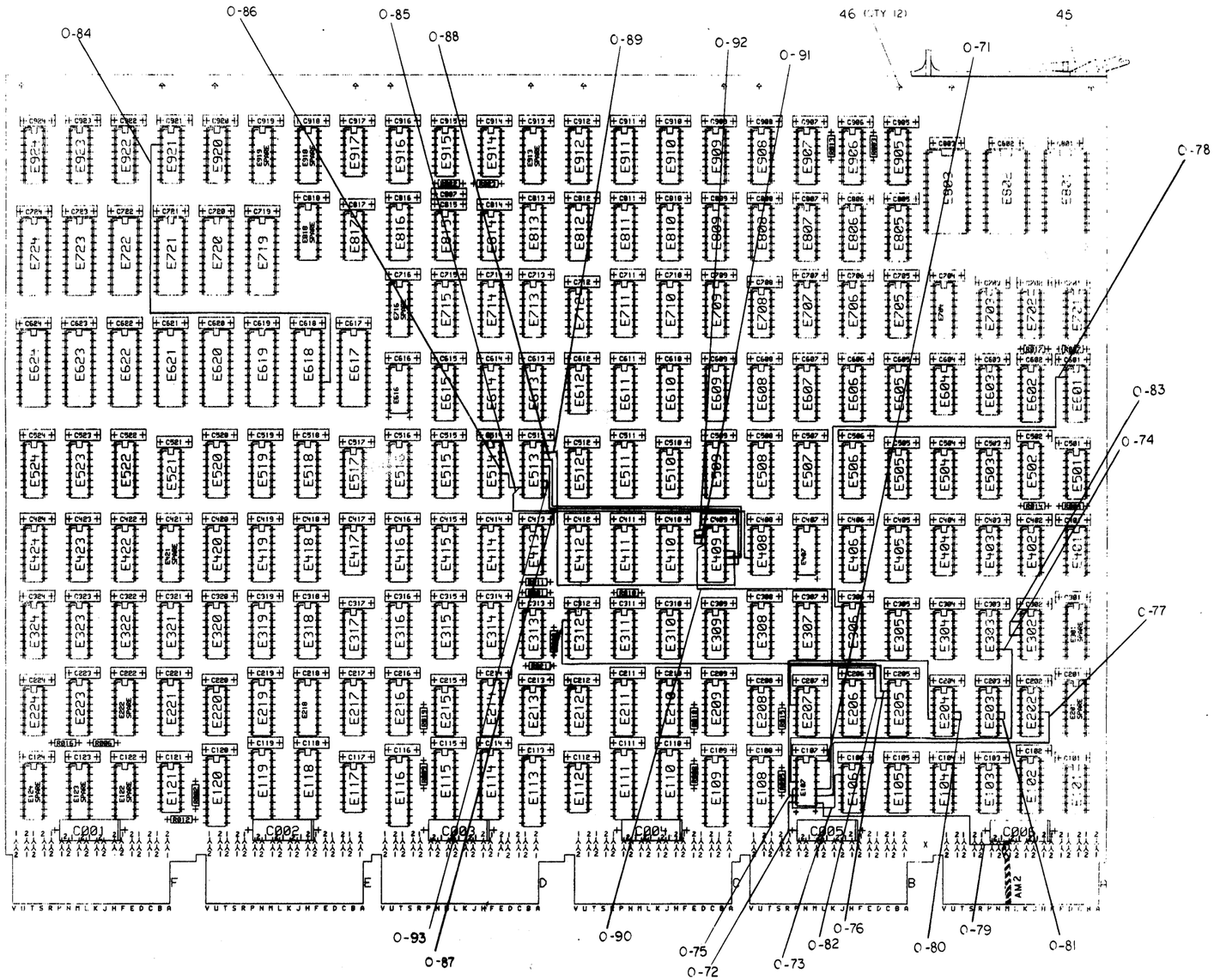
SIZE	CODE	NUMBER	REV.
B	DD	M8621-Ø	A

SHEET 1 OF 1

DRB 126

MR

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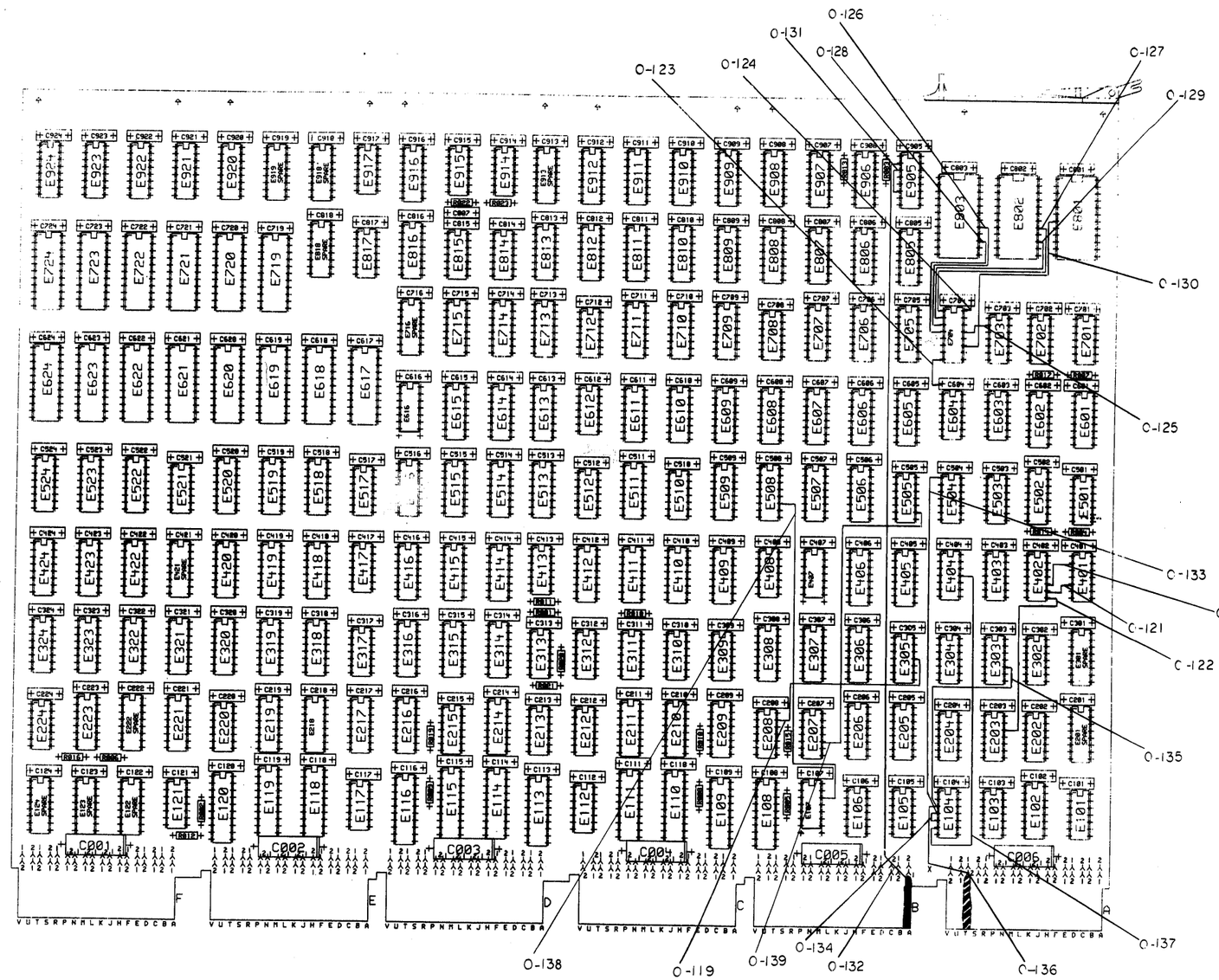
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0-109
0-103
0-117
0-118
0-102
0-114
0-107
0-110
0-104
0-106
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0-94
0-116
0-115
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0-99
0-100
0-101
0-111
0-108
0-112
0-97
0-113

C001 C002 C003 C004 C005 C006

DRN. Ewilson	DATE 6 JAN 78	ENG. WB	DATE	TITLE: DATA PATH MEMORY UNIT ASSEMBLY	
CHK. Ewilson	DATE 10 JAN 78	MFG.	DATE		
UNS621.DRA;4,6520		NEXT HIGHER ASSEMBLY:		SIZE: E	CODE: 18
FIRST USED ON OPTION/MODEL: KS10		8-DD-MB621-0		NUMBER: MB621-0-0	REV: A

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DATA PATH MEMORY UNIT ASSEMBLY

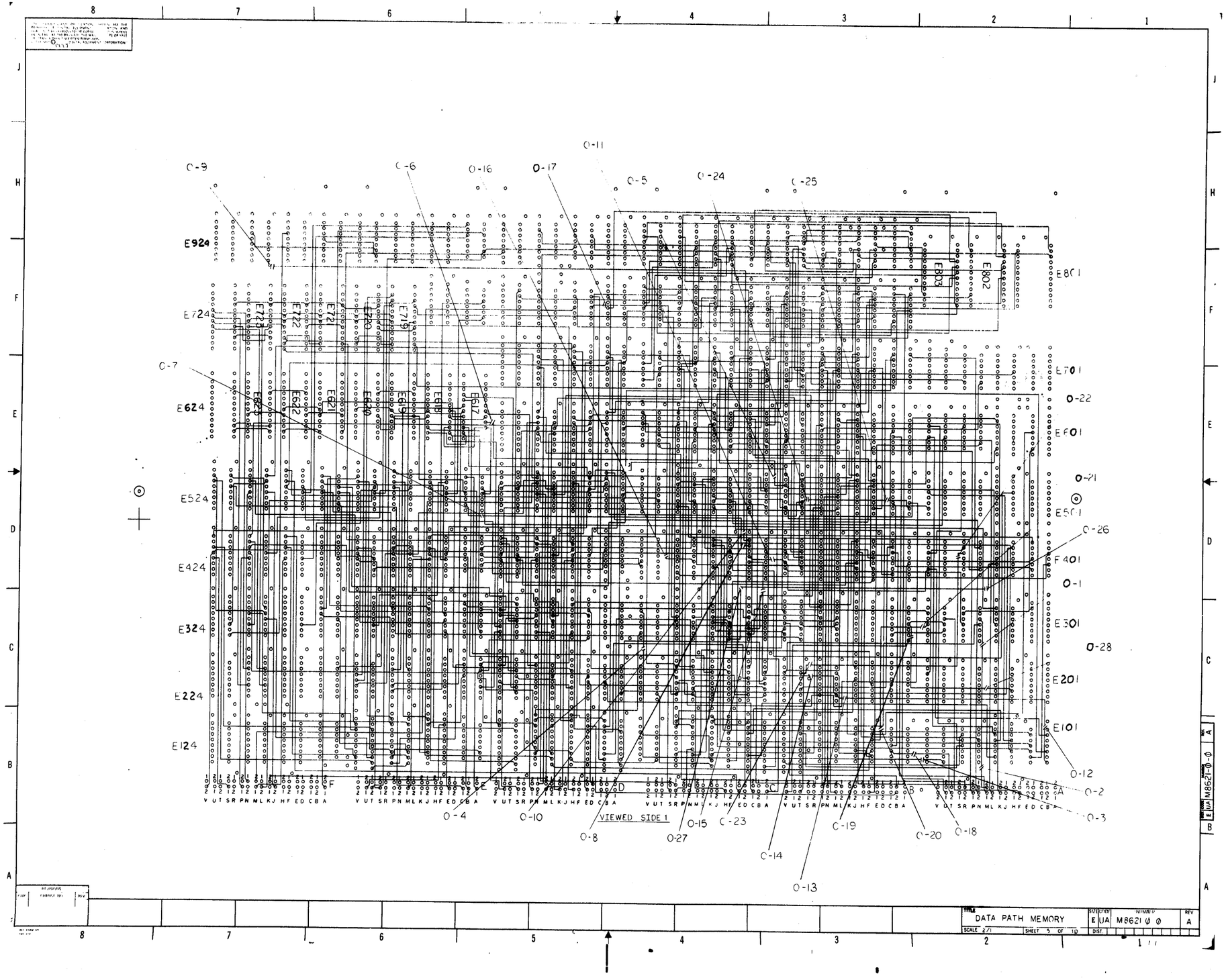
SIZE D | CODE | NUMBER M8021-0-C | REV A

8 7 6 5 4 3

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C-165
C-168
C-149
C-148
C-172
C-177
C-167
C-150
C-142
C-140
C-143
C-141
C-144
C-145
C-153
C-152
C-151
C-169
C-146
C-173
C-154
C-176
C-156
C-174
C-163
C-171
C-179A
C-179B
C-178A
C-178B
C-147
C-175
C-164
C-170
C-157
C-155
C-160
C-158
C-159
C-162
C-161
C-166

digital
DRN: Z Wilson
CHK: R [illegible]
SIZE: D
6 VA MB02L-0-05
A


O-9
O-6
O-16
O-17
O-11
O-5
O-24
O-25
E924
E724
E624
E524
E424
E324
E224
E124
E802
E803
E801
E701
E501
E401
E301
E201
E101
O-7
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O-10
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O-15
O-23
O-14
O-19
O-20
O-18
O-13
VIEWED SIDE 1
DATA PATH MEMORY
M8621Ø Ø
A
SCALE 2/1
SHEET 5 OF 10

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0-29

E924 E724 E624 E524 E424 E324 E224 E124

E719 E720 E721 E722 E723 E619 E620 E621 E622 E623 E617 E618 E803 E802 E801 E701 E601 E501 E401 E301 E201 E101

0-30

INNER LAYER
VIEWED SIDE 1

REVISIONS		
CHK	CHANGE NO.	REV.

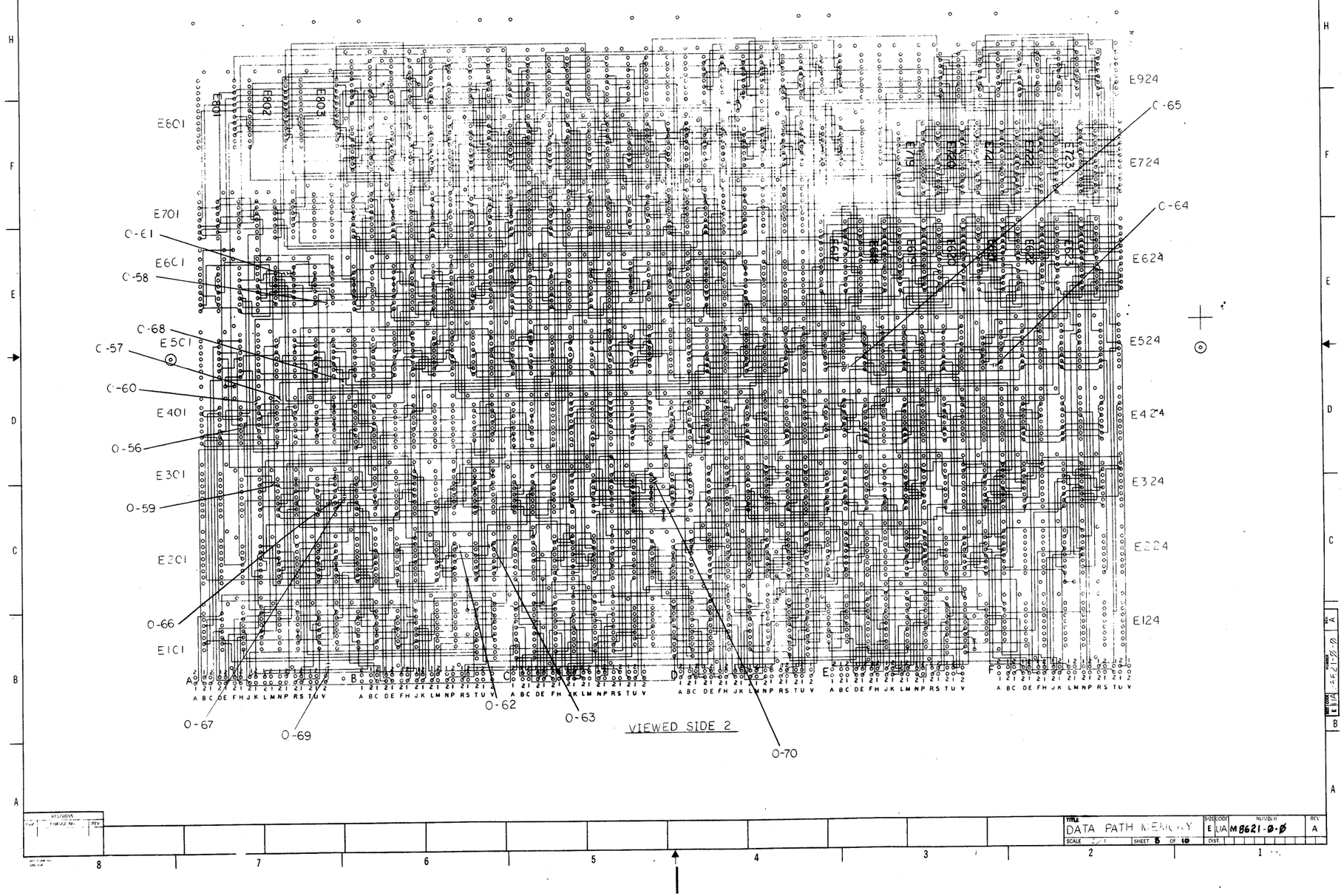
TITLE	SIZE	CODE	NUMBER	REV.
DATA PATH MEMORY	E	UA	M8621-Ø-Ø	A
SCALE 2/1	SHEET 6 OF 1Ø		DIST.	

1 MR

C-53
C-39
C-51
C-50
C-47
E801
E701
E601
E501
E401
E301
E201
E101
E924
E724
E624
E524
E424
E324
E224
E124
C-48
C-54
C-49
C-34
C-40
C-52
C-35
C-36
C-55
O-37
O-38
O-32
O-31
O-41
O-46
O-44
O-45
O-43
O-33
O-42
VIEWED SIDE 2

REVISIONS		
CHK	ENGNR. NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
DATA PATH MEMORY	E	UA	M8621-0-0	A
SCALE 2/1	SHEET 7 OF 10		DIST	



TITLE	SIZE	CODE	NUMBER	REV
DATA PATH MEMORY	E	UA	M8621-D-B	A
SCALE 2/1	SHEET 8 OF 10		DIST	

VIEWED SIDE 2

REVISIONS		
LTR	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
DATA PATH MEMORY	E	UA	M8621-0-0	A
SCALE 2/1	SHEET 9 OF 10	DIST		

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NOTES:
1. FOR DRAWING DIRECTORY REFER TO: B-CO-M8621-0
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:

PACKAGE TYPE	+5.0V	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
22 PIN DIP	22	8
24 PIN DIP	24	12
IC DEC 8646	20	5,15

3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON.
4. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
5. MAXIMUM COMPONENT HEIGHT IS .278
6. FINISH HOLE SIZES ARE AS FOLLOW IN INCHS
   + = .037±.003
   ◇ = .133+.002,-.007
   X = .100±.003
   ∧ = .025+.003,-.006

REWORK INSTRUCTIONS

FIRST RELEASE

ETCH CUTS, SIDE #1, AS SHOWN

0-1 AT ETCH BELOW AND TO RIGHT OF E303(8)
0-2 AT ETCH BELOW AND TO RIGHT OF E103(8)
0-3 AT ETCH RUNNING BETWEEN E104(6 & 7)
0-4 AT ETCH BELOW AND TO RIGHT OF E312(7)
0-5 AT E508(3)
0-6 AT E617(15)
0-7 AT SECOND ETCH BELOW E517(8)
0-8 AT E409(2)
0-9 AT E923(9)
0-10 AT E409(1)
0-11 AT ETCH RUNNING BETWEEN E409(12 & 13)
0-12 AT ETCH TO LEFT OF E101(14)
0-13,0-14 AT E207(9) AND AT ETCH BETWEEN E207(2 & 3)
0-15 AT ETCH BELOW AND TO LEFT OF E409(9)
0-16 AT ETCH RUNNING BETWEEN E411(4 & 5)
0-17 AT ER14(11)
0-18 AT ETCH RUNNING BETWEEN E105(9 & 10)
0-19 AT E305(11)
0-20 AT E106(12)
0-21 AT E304(4)
0-22 AT E403(3)
0-23 AT E308(13)
0-24 AT E509(11)
0-25 AT ETCH RUNNING BETWEEN E505(4 & 5)
0-26 AT SECOND ETCH BELOW AND TO RIGHT OF E403(8)
0-27 AT SECOND ETCH ABOVE AND TO LEFT OF E308(1)
0-28 AT ETCH RUNNING BETWEEN E202(4 & 5)

} SHT 5 OF 10

ETCH CUTS, SIDE #1 (INNER LAYER), AS SHOWN

0-29 DRAW A LINE FROM E719(4) TO E719(18) AND FROM E719(5) TO E719(19). CUT ETCH AT CENTER OF CROSSED LINES.
0-30 DRAW A LINE FROM E123(8) TO FINGER PIN PTH FN2 AND FROM E123(9) TO FINGER PIN PTH FR1. CUT ETCH AT CENTER OF CROSSED LINES.

} SHT 6 OF 10

ETCH CUTS, SIDE #2, AS SHOWN

0-31 AT ETCH TO RIGHT OF E207(8)
0-32 AT ETCH ABOVE E106(14)
0-33 AT E513(8)
0-34 AT E403(2)
0-35,0-36 AT E203(12) BOTH SIDES OF PTH
0-37 AT E204(11)
0-38 AT E204(12)
0-39 AT E508(2)
0-40 AT ETCH RUNNING BETWEEN E303(13 & 14)
0-41 AT E409(3)
0-42 AT E514(12)
0-43 AT E313(3)
0-44,0-45 AT E411(5) BOTH SIDES OF PTH
0-46 AT E411(10)
0-47 AT E816(8)
0-48 AT E504(1)
0-49 AT E404(12)
0-50,0-51 AT E915(10) BOTH SIDES OF PTH
0-52 AT E402(8)
0-53 AT E801(7)
0-54 AT ETCH BELOW E504(7)
0-55 AT E101(12)
0-56 AT ETCH TO RIGHT OF E402(11)
0-57 AT SECOND ETCH ABOVE E403(14)
0-58 AT ETCH TO LEFT OF E604(7)
0-59 AT E303(13)
0-60 AT ETCH TO LEFT OF E402(1)
0-61 AT E603(2)
0-62 AT E207(2)
0-63 AT E208(1)
0-64 AT E521(6)
0-65 AT ETCH RUNNING BETWEEN E517(6 & 7)
0-66 AT E304(5)
0-67 AT SECOND ETCH TO RIGHT OF E304(4)
0-68 AT SECOND ETCH TO RIGHT AND BELOW E504(7)
0-69 AT FINGER PIN AV2
0-70 AT E312(1)

} SHT 8 OF 10

WIRE ADDS, SIDE #1, AS SHOWN

0-71 FROM E107(14) TO RIGHT LEG OF C107
0-72 FROM E107(7) TO LEFT LEG OF C805
0-73 FROM E108(2) TO E107(5)
0-74 FROM E303(9) TO E107(4)
0-75 FROM E107(6) TO E204(5)
0-76 FROM E207(3) TO E205(2)
0-77 FROM E202(11) TO E107(8)
0-78 FROM E801(2) TO E107(10)
0-79 FROM E107(8) TO FINGER PIN AM2 PTH
0-80 FROM E204(10) TO E204(11)
0-81 FROM E203(10) TO E203(11)
0-82 FROM E205(3) TO E312(2)
0-83 FROM E902(2) TO E902(4)
0-84 FROM E821(3) TO E816(15)
0-85 FROM E408(5) TO E513(7)
0-86 FROM E513(7) TO E514(12)
0-87 FROM E409(11) TO E513(13)
0-88 FROM E409(12) TO E513(14)
0-89 FROM E409(13) TO E513(15)
0-90 FROM E308(1) TO E409(3)
0-91 FROM E409(3) TO E409(2)
0-92 FROM E409(2) TO E409(11)
0-93 FROM E513(10) TO E513(11)
0-94 FROM E101(8) TO E409(6)
0-95 FROM E101(10) TO E107(13)
0-96 FROM E101(12) TO E107(12)
0-97 FROM E107(11) TO E207(9)
0-98 FROM E313(3) TO E410(5)
0-99 FROM E411(4) TO E411(5)
0-100 FROM E411(12) TO E308(12)
0-101 FROM E411(10) TO E308(13)
0-102 FROM E308(11) TO E614(11)
0-103 FROM E308(14) TO E816(8)
0-104 FROM E107(3) TO E303(13)
0-105 FROM E107(2) TO E202(11)
0-106 FROM E107(1) TO E303(5)
0-107 FROM E404(6) TO E407(1)
0-108 FROM E408(4) TO E407(2)
0-109 FROM E513(9) TO E407(4)
0-110 FROM E407(4) TO E403(2)
0-111 FROM E308(4) TO E407(5)
0-112 FROM E407(5) TO E108(12)
0-113 FROM E407(7) TO LEFT LEG OF C307
0-114 FROM E407(14) TO RIGHT LEG OF C407
0-115 FROM E915(10) TO FINGER PIN FN2 PTH
0-116 FROM E814(8) TO FINGER PIN FS2 PTH
0-117 FROM E915(4) TO RIGHT LEG OF R22
0-118 FROM E914(10) TO LEFT LEG OF R23
0-119 FROM E208(13) TO E305(11)
0-120 FROM E401(2) TO E402(10)
0-121 FROM E401(5) TO E402(9)
0-122 FROM E203(12) TO E402(6)
0-123 FROM E704(8) TO LEFT LEG OF C604
0-124 FROM E704(16) TO RIGHT LEG OF C704
0-125 FROM E703(2) TO E704(13)
0-126 FROM E803(17) TO E704(3)
0-127 FROM E802(17) TO E704(1)
0-128 FROM E803(15) TO E704(4)
0-129 FROM E802(15) TO E704(2)
0-130 FROM E704(11) TO E901(7)
0-131 FROM E905(8) TO E905(3)
0-132 FROM E905(2) TO FINGER PIN BA1 PTH
0-133 FROM E504(1) TO E104(4)
0-134 FROM E104(4) TO E104(5)
0-135 FROM E303(10) TO E104(3)
0-136 FROM E104(3) TO FINGER PIN AT2 PTH
0-137 FROM E104(6) TO E404(11)
0-138 FROM E508(11) TO E107(12)
0-139 FROM E905(9) TO E207(10)
0-140 FROM E604(10) TO E303(13)
0-141 FROM E204(12) TO E402(6)
0-142 FROM E402(9) TO E402(5)
0-143 FROM E402(4) TO E202(9)
0-144 FROM E202(9) TO E121(6)
0-145 FROM E207(2) TO E202(8)
0-146 FROM E208(1) TO E121(5)
0-147 FROM E121(4) TO E405(10)
0-148 FROM E121(3) TO E405(14)

} SHT 1 OF 10
} SHT 2 OF 10
} SHT 3 OF 10
} SHT 4 OF 10

0-149 FROM E310(8) TO E603(2)
0-150 FROM E702(9) TO E401(12)
0-151 LIFT LEG OF E103(9) AND ADD WIRE FROM LEG TO E702(8)
0-152 FROM LEG OF E103(9) TO E103(10)
0-153 FROM E103(11) TO E518(1)
0-154 FROM E818(13) TO E513(9)
0-155 FROM E816(1) TO E823(8)
0-156 FROM E818(4) TO E408(5)
0-157 FROM E818(5) TO E517(8)
0-158 FROM E816(12) TO E816(11)
0-159 FROM E818(8) TO E816(10)
0-160 FROM E816(10) TO E816(9)
0-161 FROM E816(7) TO E815(8)
0-162 FROM E816(14) TO E815(16)
0-163 FROM E816(6) TO FINGER PIN EB1
0-164 FROM E521(5) TO E517(8)
0-165 FROM E505(2) TO E505(1)
0-166 FROM E505(2) TO E508(5)
0-167 FROM E505(12) TO E304(5)
0-168 FROM E504(4) TO E505(13)
0-169 FROM E504(6) TO FINGER PIN AV2
0-170 FROM E616(3) TO E121(8)
0-171 FROM E121(5) TO E121(10)
0-172 FROM E121(9) TO E504(8)
0-173 FROM E121(11) TO E107(1)
0-174 FROM E218(7) TO PTH BELOW E218(7)
0-175 LIFT LEG OF E313(4) AND ADD WIRE FROM LEG TO E218(2)
0-176 LIFT LEG OF E311(8) AND ADD WIRE FROM LEG TO LEG OF E313(4)
0-177 FROM E816(2) TO E403(1)

} SHT 4 OF 10

TWISTED PAIR ADDS. SIDE #1, AS SHOWN

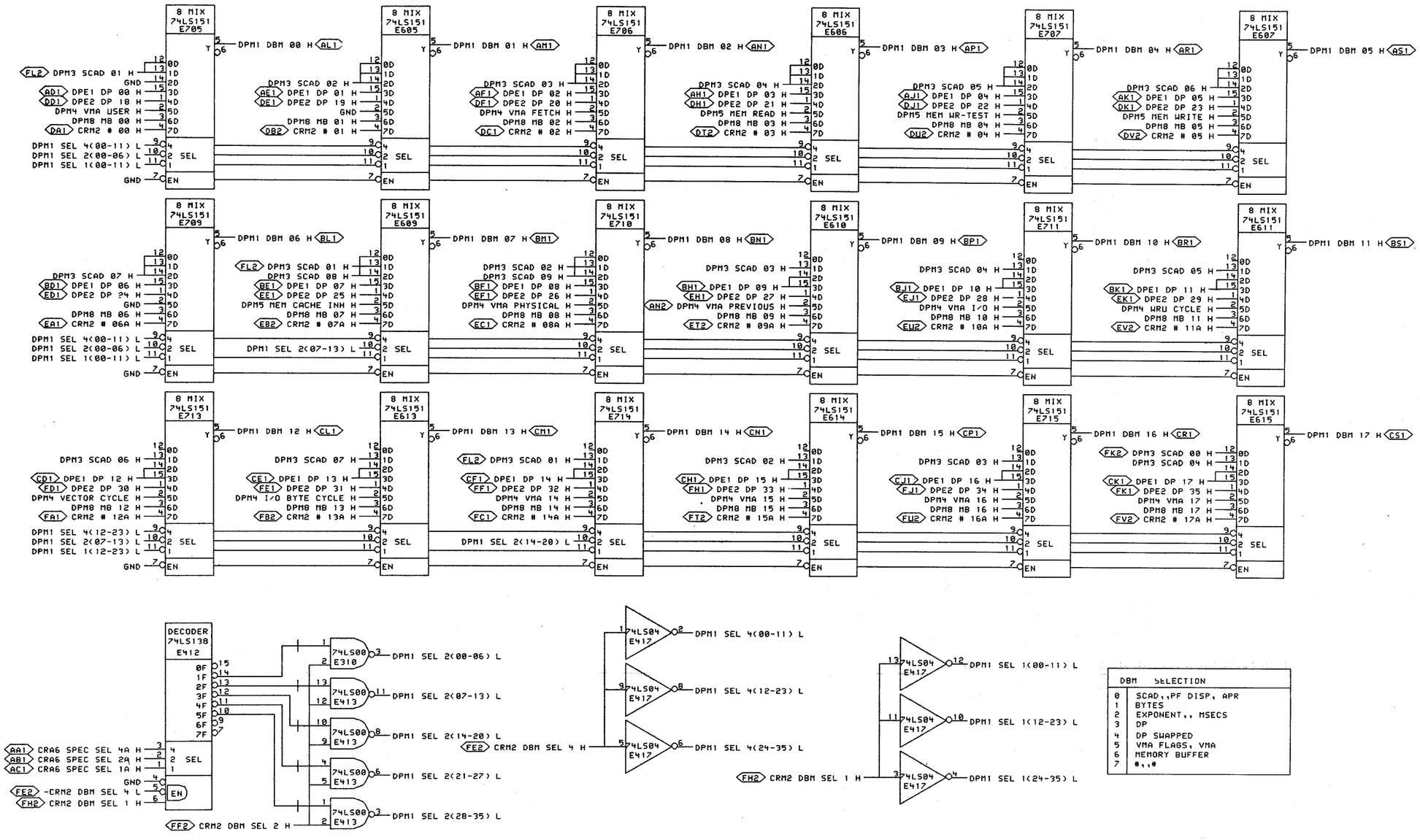
0-178 A WHT FROM E218(1) TO E312(1)
B GRN FROM LEFT LEG OF C218 TO LEFT LEG OF C312
0-179 A WHT FROM E218(1) TO BOTTOM LEG OF R28
B GRN FROM LEFT LEG OF C218 TO E312(7)

} SHT 4 OF 10

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
DATA PATH MEMORY	E	UA	M8621-0-0	A
SCALE —	SHEET 10 OF 10	DIST.		

PART CODE E UA M8621-0-0 REV A



SHEET 1 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

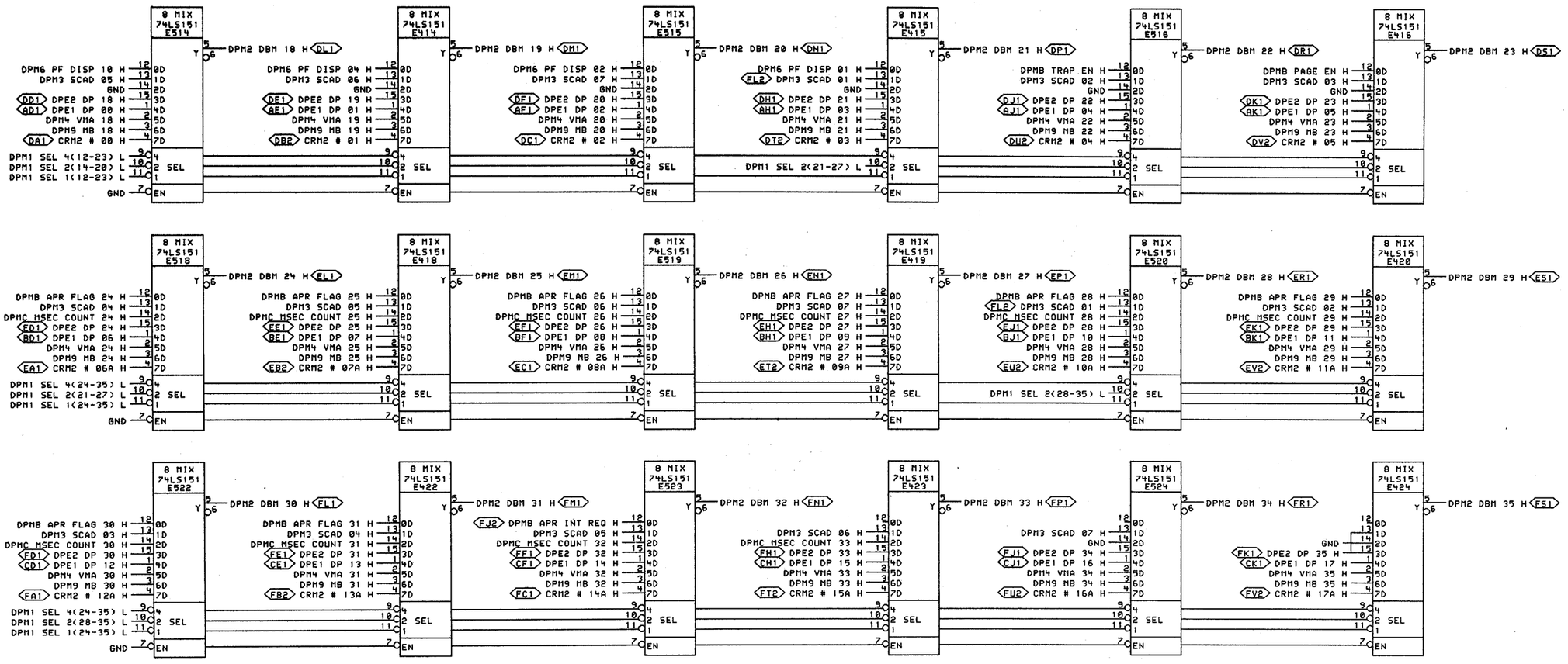
digital

DRN. Toomey 29-MAR-78
CHK'D. DATE
ENG. DATE
DPM1.DRW[4,652] 27-MAR-78 15:02
FIRST USED ON OPTION/MODEL: KS10
BOARD LOCATION: 1AF14
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY DBM LEFT

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM1	A

SIZE D | CODE CS | NUMBER M8621-0-DPM1 | REV. A



SHEET 2 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN: S.Toomey DATE 22-MAR-78
CHK'D: DATE
DPM2.DRW[4,652] 22-MAR-78 01:48
FIRST USED ON OPTION/MODEL: KS10

ENG. DATE 7-MAR-78
BOARD LOCATION: 1AF14
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY DBM RIGHT

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM2	A

1 MR

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM3	A

	SCAD #(00-02) SCAD	FUNCTION #(03-05) A	TABLE #(06-08) B
0	2*A	SC	FE
1	.OR.	#(08-17)	FE
2	A-B-1	44	EXP
3	A-B	BYTE 1	EXP
4	A+B	BYTE 2	SHIFT
5	.AND.	BYTE 3	SHIFT
6	A-1	BYTE 4	SIZE
7	A	BYTE 5	SIZE

4X2 MIX 74LS157 E912
EC1 DPM4 SC 00 H, CRM2 # 08A H → 0-DA, 1-DA → YA → DPM3 SCADA 00 H
DPM4 SC 08 H, FW2 CRM2 # 16A H → 0-DB, 1-DB → YB
DPM4 SC 09 H, FV2 CRM2 # 17A H → 0-DC, 1-DC → YC → DPM3 SCADA 08 H
DPM3 # 05 L → 1 SEL, GND → EN → YD → DPM3 SCADA 09 H

-DPM3 # 01 H, DA1 CRM2 # 00 H → 74LS32 E701
-DPM3 # 00 H, DB2 CRM2 # 01 H → 74LS32 E701
DB2 CRM2 # 01 H, DC1 CRM2 # 02 H → 74LS32 E701
DA1 CRM2 # 00 H, GND → 74LS32 E701
DC1 CRM2 # 02 H → 74LS08 E402

ALU 74LS181 E801
DPM3 SCADA 00 H, DPM3 SCADB 00 H → 8A, 8B
DPM3 SCADA 01 H, DPM3 SCADB 01 H → 4A, 4B
DPM4 SCAD CRY 02 L → C IN
F=17, C OUT, 8F, 4F, 2F, 1F, CG, CP
2A, 2B, 1A, 1B
S8, S4, S2, S1, BOOLE
2F → DPM3 SCAD 00 H
1F → DPM3 SCAD 01 H

ALU 74LS181 E802
DPM3 SCADA 02 H, DPM3 SCADB 02 H → 8A, 8B
DPM3 SCADA 03 H, DPM3 SCADB 03 H → 4A, 4B
FK2 DPM3 SCADA 04 H, DPM3 SCADB 04 H → 2A, 2B
FL2 DPM3 SCADA 05 H, DPM3 SCADB 05 H → 1A, 1B
DPM3 SCAD CRY 06 L → C IN
F=17, C OUT, 8F, 4F, 2F, 1F, CG, CP
S8, S4, S2, S1, BOOLE
8F → DPM3 SCAD 02 H
4F → DPM3 SCAD 03 H
2F → DPM3 SCAD 04 H
1F → DPM3 SCAD 05 H
DPM3 SCAD GEN 02 L, DPM3 SCAD PROP 02 L

ALU 74LS181 E803
DPM3 SCADA 06 H, DPM3 SCADB 06 H → 8A, 8B
DPM3 SCADA 07 H, DPM3 SCADB 07 H → 4A, 4B
DPM3 SCADA 08 H, DPM3 SCADB 08 H → 2A, 2B
DPM3 SCADA 09 H, DPM3 SCADB 09 H → 1A, 1B
DPM3 # 02 L → C IN
F=17, C OUT → DPM3 SCAD CRY 06 L, CG, CP
S8, S4, S2, S1, BOOLE
8F → DPM3 SCAD 06 H
4F → DPM3 SCAD 07 H
2F → DPM3 SCAD 08 H
1F → DPM3 SCAD 09 H
DPM3 SCAD GEN 06 L
DPM3 SCAD PROP 06 L

AE1 DPE1 DP 01 H, AF1 DPE1 DP 02 H, AH1 DPE1 DP 03 H, AJ1 DPE1 DP 04 H, AK1 DPE1 DP 05 H, BD1 DPE1 DP 06 H, BE1 DPE1 DP 07 H, BF1 DPE1 DP 08 H, AD1 DPE1 DP 00 H, GND → 74LS86 E708 / 74LS86 E712 / 74532 E403
→ DPM3 EXP 02 H, DPM3 EXP 03 H, DPM3 EXP 04 H, DPM3 EXP 05 H, DPM3 EXP 06 H, DPM3 EXP 07 H, DPM3 EXP 08 H, DPM3 EXP 09 H

2X4 MIX 74LS153 E907
DPM4 FE 00 H, GND, DD1 DPE2 DP 18 H, GND → 0-DA, 1-DA, 2-DA, 3-DA, EN → YA → DPM3 SCADB 00 H
DPM4 FE 01 H, GND, DD1 DPE2 DP 18 H, BD1 DPE1 DP 06 H, GND → 0-DB, 1-DB, 2-DB, 3-DB, EN → YB → DPM3 SCADB 01 H
DPM3 # 06 L, DPM3 # 07 L → 2 SEL, 1 SEL

2X4 MIX 74LS153 E908
DPM4 FE 02 H, DPM3 EXP 02 H, EJ1 DPE2 DP 28 H, BE1 DPE1 DP 07 H, GND → 0-DA, 1-DA, 2-DA, 3-DA, EN → YA → DPM3 SCADB 02 H
DPM4 FE 03 H, DPM3 EXP 03 H, EK1 DPE2 DP 29 H, BF1 DPE1 DP 08 H, GND → 0-DB, 1-DB, 2-DB, 3-DB, EN → YB → DPM3 SCADB 03 H
DPM3 # 06 L, DPM3 # 07 L → 2 SEL, 1 SEL

2X4 MIX 74LS153 E909
DPM4 FE 04 H, DPM3 EXP 04 H, FD1 DPE2 DP 30 H, BH1 DPE1 DP 09 H, GND → 0-DA, 1-DA, 2-DA, 3-DA, EN → YA → DPM3 SCADB 04 H
DPM4 FE 05 H, DPM3 EXP 05 H, FE1 DPE2 DP 31 H, BJ1 DPE1 DP 10 H, GND → 0-DB, 1-DB, 2-DB, 3-DB, EN → YB → DPM3 SCADB 05 H
DPM3 # 06 L, DPM3 # 07 L → 2 SEL, 1 SEL

2X4 MIX 74LS153 E910
DPM4 FE 06 H, DPM3 EXP 06 H, FF1 DPE2 DP 32 H, BK1 DPE1 DP 11 H, GND → 0-DA, 1-DA, 2-DA, 3-DA, EN → YA → DPM3 SCADB 06 H
DPM4 FE 07 H, DPM3 EXP 07 H, FH1 DPE2 DP 33 H, GND → 0-DB, 1-DB, 2-DB, 3-DB, EN → YB → DPM3 SCADB 07 H
DPM3 # 06 L, DPM3 # 07 L → 2 SEL, 1 SEL

2X4 MIX 74LS153 E911
DPM4 FE 08 H, DPM3 EXP 08 H, FJ1 DPE2 DP 34 H, GND → 0-DA, 1-DA, 2-DA, 3-DA, EN → YA → DPM3 SCADB 08 H
DPM4 FE 09 H, DPM3 EXP 09 H, FK1 DPE2 DP 35 H, GND → 0-DB, 1-DB, 2-DB, 3-DB, EN → YB → DPM3 SCADB 09 H
DPM3 # 06 L, DPM3 # 07 L → 2 SEL, 1 SEL

8 MIX 74LS151 E807
ET2 DPM4 SC 01 H, CRM2 # 09A H, DPMC +3V A, AD1 DPE1 DP 00 H, BE1 DPE1 DP 07 H, CF1 DPE1 DP 14 H, DH1 DPE2 DP 21 H, EJ1 DPE2 DP 28 H → 0D–7D → Y → DPM3 SCADA 01 H
EW2 DPM4 SC 02 H, CRM2 # 10A H, GND, AE1 DPE1 DP 01 H, BF1 DPE1 DP 08 H, CH1 DPE2 DP 15 H, DJ1 DPE2 DP 22 H, EK1 DPE2 DP 29 H → 0D–7D → Y → DPM3 SCADA 02 H
EV2 DPM4 SC 03 H, CRM2 # 11A H, GND, AF1 DPE1 DP 02 H, BH1 DPE1 DP 09 H, CJ1 DPE1 DP 16 H, DK1 DPE2 DP 23 H, FD1 DPE2 DP 30 H → 0D–7D → Y → DPM3 SCADA 03 H
FA1 DPM4 SC 04 H, CRM2 # 12A H, DPMC +3V A, AH1 DPE1 DP 03 H, BJ1 DPE1 DP 10 H, CK1 DPE1 DP 17 H, ED1 DPE2 DP 24 H, FE1 DPE2 DP 31 H → 0D–7D → Y → DPM3 SCADA 04 H
FB2 DPM4 SC 05 H, CRM2 # 13A H, GND, AJ1 DPE1 DP 04 H, BK1 DPE1 DP 11 H, DD1 DPE2 DP 18 H, EE1 DPE2 DP 25 H, FF1 DPE2 DP 32 H → 0D–7D → Y → DPM3 SCADA 05 H
FC1 DPM4 SC 06 H, CRM2 # 14A H, GND, AK1 DPE1 DP 05 H, CD1 DPE1 DP 12 H, DE1 DPE2 DP 19 H, EF1 DPE2 DP 26 H, FH1 DPE2 DP 33 H → 0D–7D → Y → DPM3 SCADA 06 H
FT2 CRM2 # 15A H, BD1 DPE1 DP 06 H, BD1 DPE1 DP 06 H, CE1 DPE1 DP 13 H, DF1 DPE2 DP 20 H, EH1 DPE2 DP 27 H, FJ1 DPE2 DP 34 H → 0D–7D → Y → DPM3 SCADA 07 H
DPM3 # 03 L, DPM3 # 04 L, DPM3 # 05 L → 4 SEL, 2 SEL, 1 SEL
GND → EN

DA1 CRM2 # 00 H → 74LS04 E702 → DPM3 # 00 L
DC1 CRM2 # 02 H → 74LS04 E703 → DPM3 # 02 L
DW2 CRM2 # 04 H → 74LS04 E703 → DPM3 # 04 L
EA1 CRM2 # 06A H → 74LS04 E703 → DPM3 # 06 L
DB2 CRM2 # 01 H → 74LS04 E702 → DPM3 # 01 L
DT2 CRM2 # 03 H → 74LS04 E703 → DPM3 # 03 L
DV2 CRM2 # 05 H → 74LS04 E703 → DPM3 # 05 L
EB2 CRM2 # 07A H → 74LS04 E703 → DPM3 # 07 L

SHEET 3 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

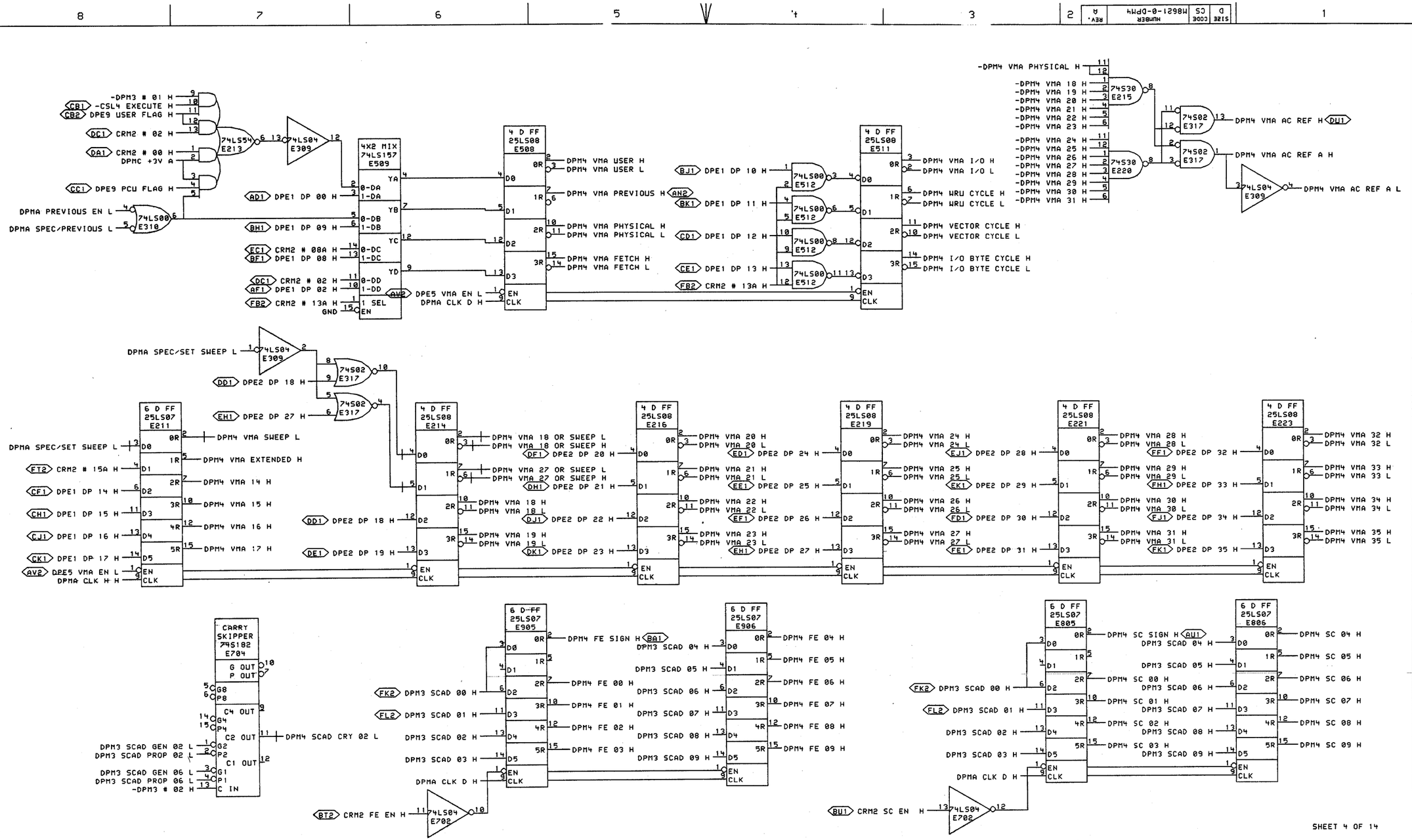
digital

DRN.	DATE	ENG.	DATE
CHK ID.	22-MAR-78	DATE	BOARD LOCATION: 1AF14
DPM3.DRW[4,652]	22-MAR-78 01:49	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8621-0	

TITLE: DATA PATH MEMORY STEP COUNT ADD

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM3	A

1 MR



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REVISIONS		
CHK	CHANGE NO.	REV

digital

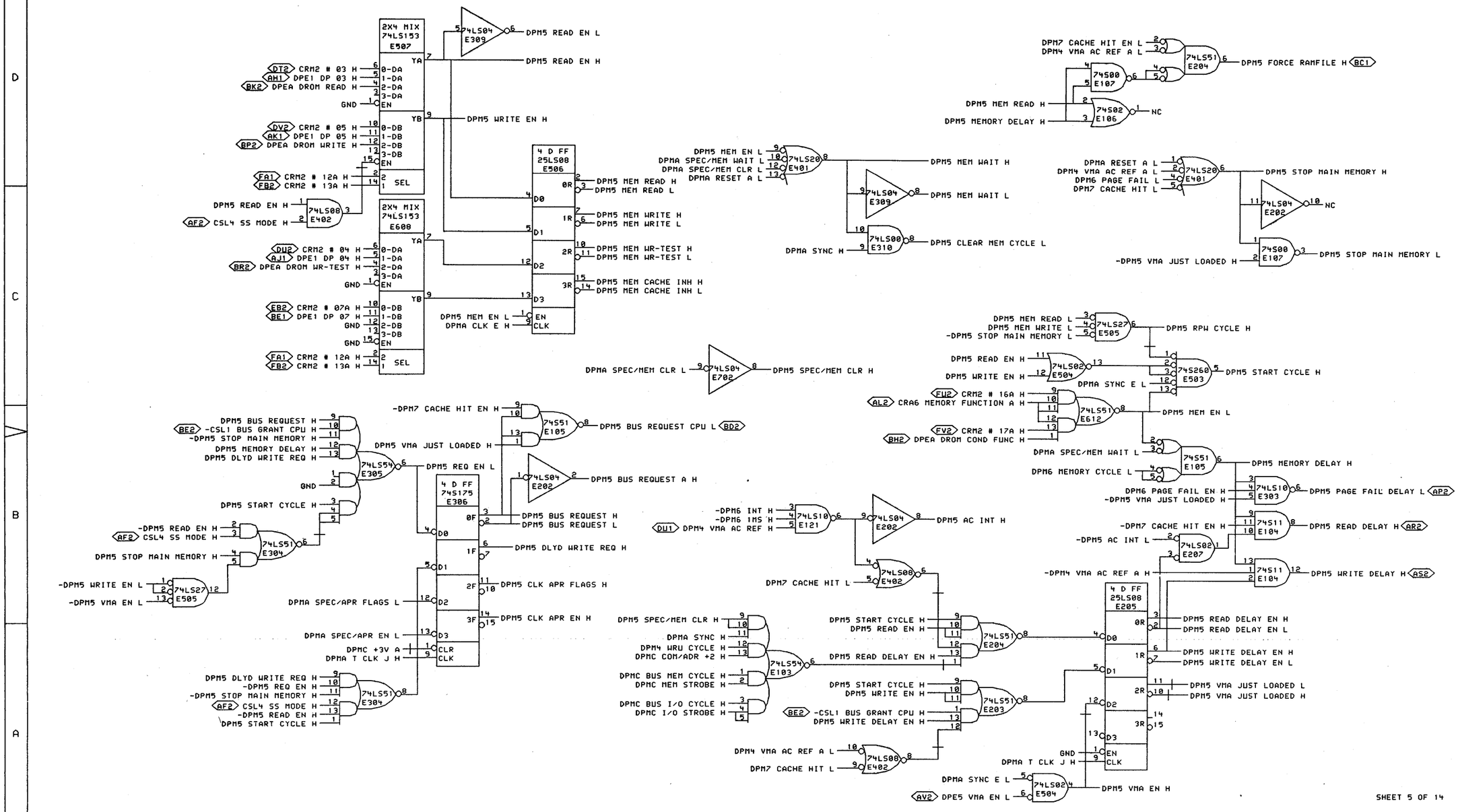
DPM4.DRW[4,652] 22-MAR-78 01:50

DRN. Toomey DATE 29-MAR-78
CHK. DATE
ENG. DATE 7 APR 78
BOARD LOCATION: 1AF14
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8621-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: DATA PATH MEMORY FE,SC,VMA REGS

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM4	A

1 MR



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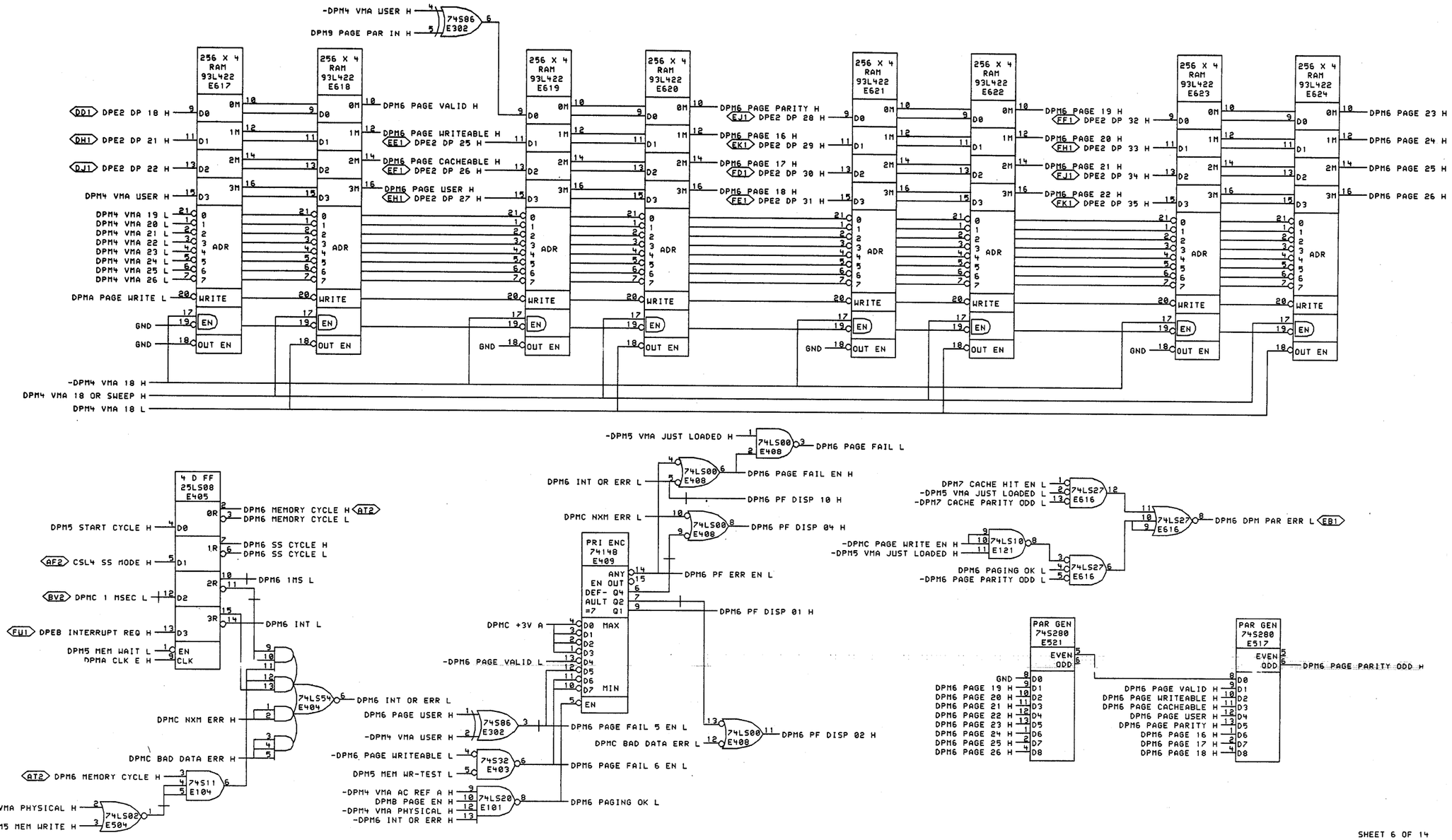
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. T. Toohy DATE 23-MAR-78 ENG. DATE
CHK'D. DATE BOARD LOCATION: 1AF14
DPM5.DRW[4,652] 23-MAR-78 09:15 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: KS10 NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY MEMORY CYCLE

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM5	A



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REVISIONS		
CHK	CHANGE NO.	REV

digital

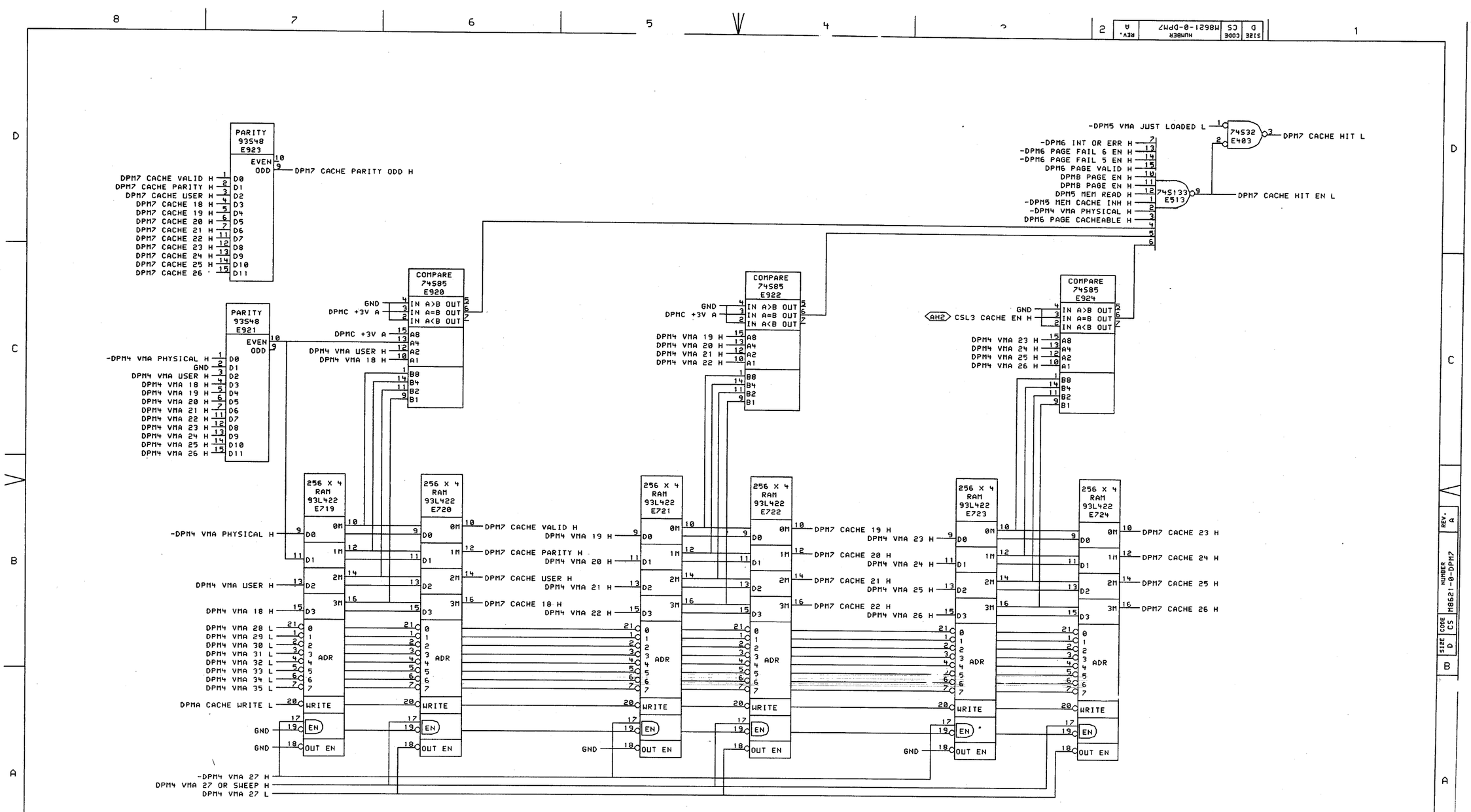
DRN. S. Toomey — DATE 29-MAR-78
CHK'D. — DATE
ENG. — DATE 7-APR-78
BOARD LOCATION: 1AF14
SHEET 1 OF 1

DPM6.DRW[4,6521] 27-MAR-78 14:58
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY PAGE TABLE

SIZE	CODE	NUMBER	REV.
D	CS	M8521-0-DPM6	A

1 MR



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. J. Toomey	DATE 29-MAR-78	ENG. Donald Smith / DATE 7-APR-78
	CHK'D.	DATE	BOARD LOCATION: 1AF14
DPM7.DRW[4,652]	27-MAR-78 14:56	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8621-0	

TITLE: DATA PATH MEMORY CACHE DIRECTORY

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM7	A

1 MR

KS10 Bus

4 BIT TRANS CEIVER LATCH 8646 E109
OD TRN PAR REC
BUS D0 TRN D0 REC D0
BUS D1 TRN D1 REC D1
BUS D2 TRN D2 REC D2
BUS D3 TRN D3 REC D3
REC LCH
TRN EN TRN CLK
DPM8 T PAR 00-03 H
DPM8 R PAR 00-03 H
BUS DATA 00 L CD2
DPM8 MB 00 H
BUS DATA 01 L CE2
DPM8 MB 01 H
BUS DATA 02 L CF2
DPM8 MB 02 H
BUS DATA 03 L CH2
DPM8 MB 03 H
DPMA REC LATCH 00-17 L
DPMA TRANSMIT 00-17 L
DPMA T CLK F H

4 BIT TRANS CEIVER LATCH 8646 E110
DPM8 T PAR 04-07 H
DPM8 R PAR 04-07 H
BUS DATA 04 L CJ2
DPM8 MB 04 H
BUS DATA 05 L CK2
DPM8 MB 05 H
BUS DATA 06 L CL2
DPM8 MB 06 H
BUS DATA 07 L CM2
DPM8 MB 07 H

4 BIT TRANS CEIVER LATCH 8646 E111
DPM8 T PAR 08-11 H
DPM8 R PAR 08-11 H
BUS DATA 08 L CN2
DPM8 MB 08 H
BUS DATA 09 L CP2
DPM8 MB 09 H
BUS DATA 10 L CR2
DPM8 MB 10 H
BUS DATA 11 L CS2
DPM8 MB 11 H
DPMA T CLK C H

4 BIT TRANS CEIVER LATCH 8646 E113
DPM8 T PAR 12-15 H
DPM8 R PAR 12-15 H
BUS DATA 12 L DD2
DPM8 MB 12 H
BUS DATA 13 L DE2
DPM8 MB 13 H
BUS DATA 14 L DF2
DPM8 MB 14 H
BUS DATA 15 L DH2
DPM8 MB 15 H

4 BIT TRANS CEIVER LATCH 8646 E114
DPM8 R PAR 16-PL H
BUS DATA 16 L DJ2
DPM8 MB 16 H
BUS DATA 17 L DK2
DPM8 MB 17 H
BUS PARITY LEFT L BS2
DPM8 MBL PARITY H BB2

4X2 MIX 74LS157 E102
AD1 DPE1 DP 00 H
DPM4 VMA I/O H
AE1 DPE1 DP 01 H
DPM5 MEM READ H
AF1 DPE1 DP 02 H
DPM5 MEM WRITE H
AH1 DPE1 DP 03 H
GND
DPM5 BUS REQUEST A H
GND
YA 0-DA 1-DA
YB 0-DB 1-DB
YC 0-DC 1-DC
YD 0-DD 1-DD
1 SEL EN
DPM8 MIX 00 H
DPM8 MIX 01 H
DPM8 MIX 02 H
DPM8 MIX 03 H

4X2 MIX 74LS157 E406
AJ1 DPE1 DP 04 H
DPM4 WRU CYCLE H
AK1 DPE1 DP 05 H
DPM4 VECTOR CYCLE H
BD1 DPE1 DP 06 H
DPM4 I/O BYTE CYCLE H
BE1 DPE1 DP 07 H
GND
DPM8 MIX 04 H
DPM8 MIX 05 H
DPM8 MIX 06 H
DPM8 MIX 07 H

4X2 MIX 74LS157 E206
BF1 DPE1 DP 08 H
GND
BH1 DPE1 DP 09 H
GND
BJ1 DPE1 DP 10 H
GND
BK1 DPE1 DP 11 H
GND
DPM8 MIX 08 H
DPM8 MIX 09 H
DPM8 MIX 10 H
DPM8 MIX 11 H

4X2 MIX 74LS157 E209
CD1 DPE1 DP 12 H
GND
CE1 DPE1 DP 13 H
GND
CF1 DPE1 DP 14 H
DPM4 VMA 14 H
CH1 DPE1 DP 15 H
DPM4 VMA 15 H
DPM8 MIX 12 H
DPM8 MIX 13 H
DPM8 MIX 14 H
DPM8 MIX 15 H

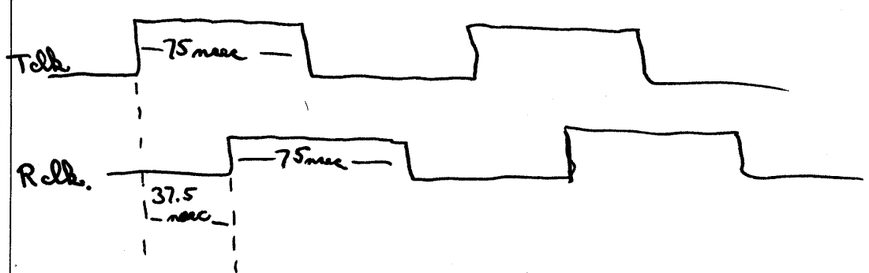
2X4 MIX 74LS153 E210
CJ1 DPE1 DP 16 H
GND
DPM4 VMA 16 H
DPM6 PAGE 16 H
CK1 DPE1 DP 17 H
GND
DPM4 VMA 17 H
DPM6 PAGE 17 H
DPM9 PAGED REF H
DPM8 MIX 16 H
DPM8 MIX 17 H

74LS02 E207
-DPM5 BUS REQUEST H
DPM4 VMA EXTENDED H

74LS27 E505
-DPM5 BUS REQUEST H
DPM4 VMA EXTENDED H
DPM9 PAGED REF H

PAR GEN 74S280 E112
EVEN ODD
DPM8 REC PAR LEFT \#400\ H
DPM8 R PAR 16-PL H
DPM8 R PAR 12-15 H
DPM8 R PAR 08-11 H
DPM8 R PAR 04-07 H
DPM8 R PAR 00-03 H
GND
D0 D1 D2 D3 D4 D5 D6 D7 D8

PAR GEN 74S280 E212
EVEN ODD
DPM8 XMIT PAR LEFT H
DPM8 T PAR 00-03 H
DPM8 T PAR 04-07 H
DPM8 T PAR 08-11 H
DPM8 T PAR 12-15 H
GND
DPM8 MIX 16 H
DPM8 MIX 17 H
D0 D1 D2 D3 D4 D5 D6 D7 D8



SHEET 8 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

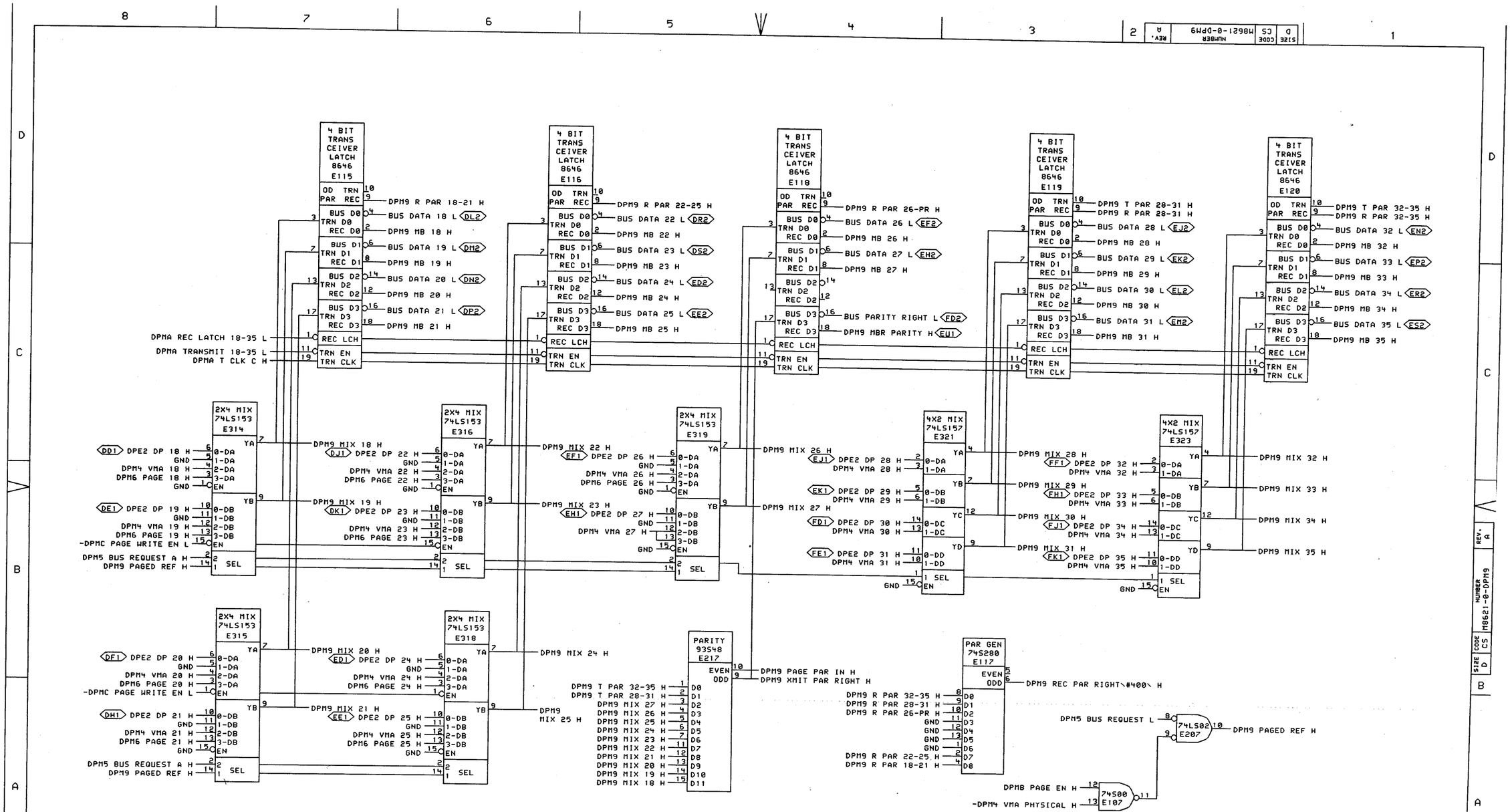
digital

DRN. S. Toomey DATE 22-MAR-78 ENG. DATE
CHK D. DATE BOARD LOCATION: 1AF14
SHEET 1 OF 1
DPM8.DRW[4,652] 22-MAR-78 01:54 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8621-0

TITLE: DATA PATH MEMORY BUS LEFT

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM8	A

MR



SHEET 9 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

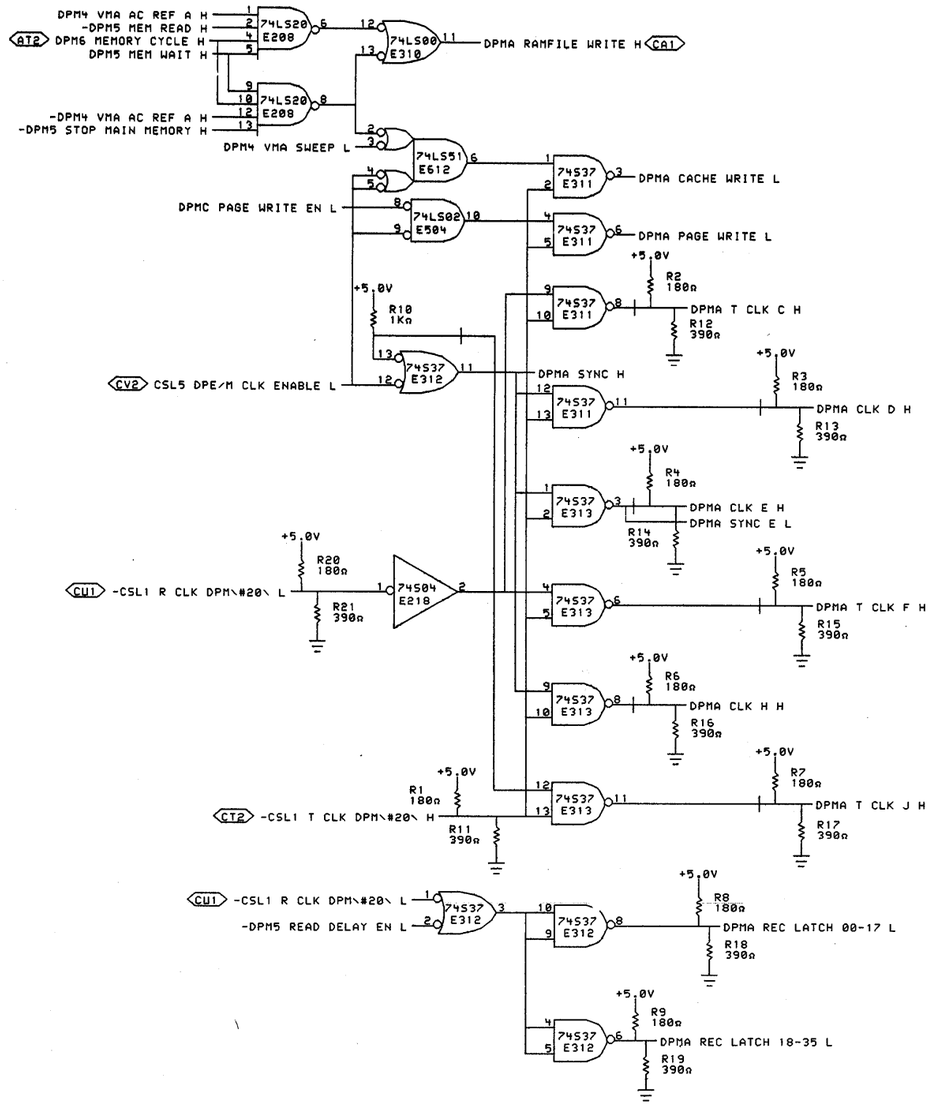
digital

DRW. L. Landry DATE 22-MAR-78 ENG. Howard Shubin DATE 7-APR-78
CHK DATE BOARD LOCATION: 1AF14
DPM9.DRW[4,652] 22-MAR-78 01:55 SHEET 1 OF 1 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8621-0

TITLE: DATA PATH MEMORY BUS RIGHT

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPM9	A

MR



SHEET 10 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

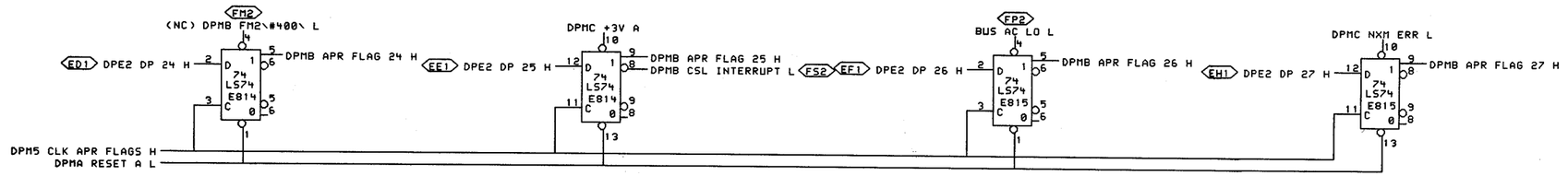
digital

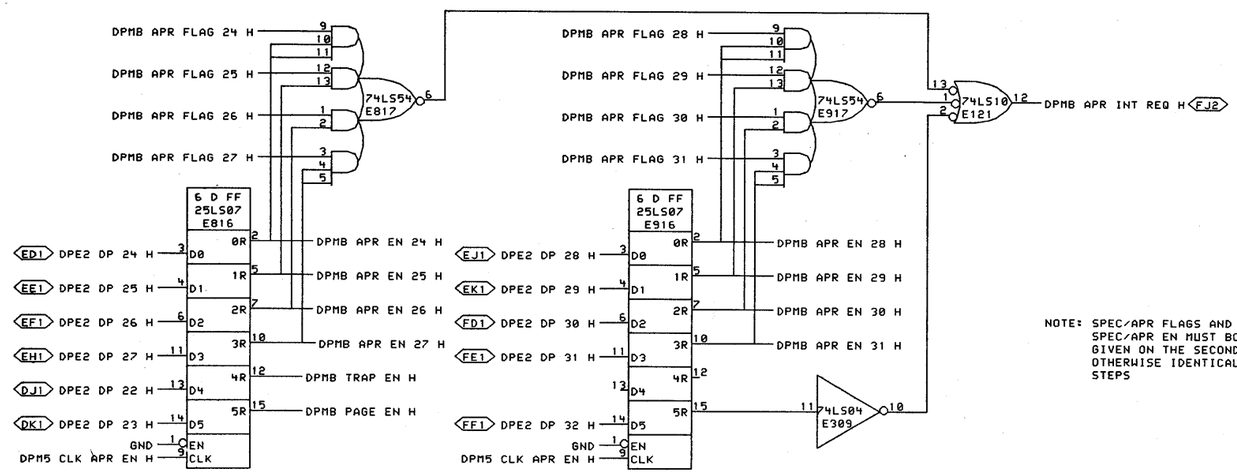
DRW. L Toomey — DATE 29-MAR-78
CHK'D — DATE 4/3/78
ENG. — DATE
BOARD LOCATION: 1AF14
SHEET 1 OF 1
DPMA.DRW[4,652] 28-MAR-78 12:41
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPMA	A

1 MR





NOTE: SPEC/APR FLAGS AND SPEC/APR EN MUST BOTH BE GIVEN ON THE SECOND OF TWO, OTHERWISE IDENTICAL MICRO CODE STEPS

SHEET 11 OF 14

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REVISIONS

CHK	CHANGE NO.	REV

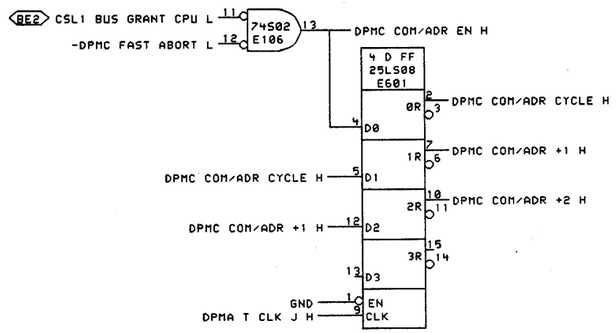
digital

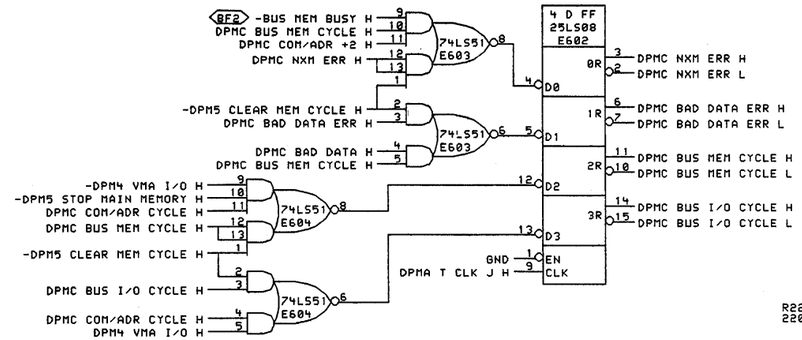
DRN. S. Toomey — DATE 23-MAR-78 — ENG. — DATE
CHK'D. — DATE — BOARD LOCATION: 1AF14
SHEET 1 OF 1
DPMB.DRW[4,652] 23-MAR-78 09:08 — NEXT HIGHER ASSEMBLY: B-DD-M8621-0
FIRST USED ON OPTION/MODEL: KS10

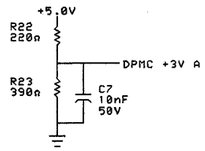
TITLE: DATA PATH MEMORY APR DEVICE

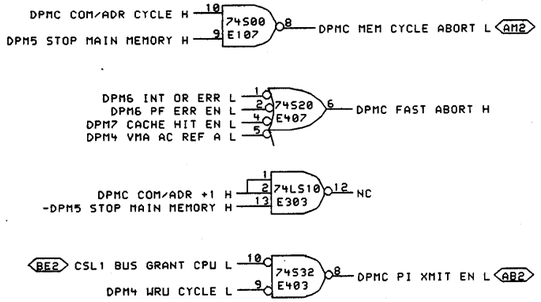
SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPMB	A

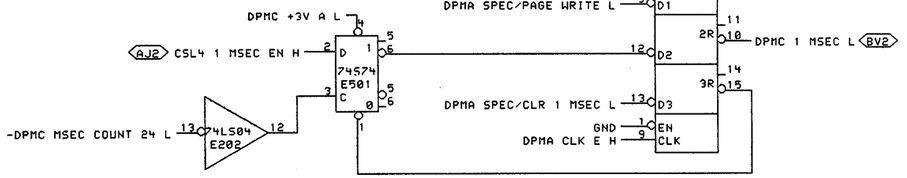
1 MR

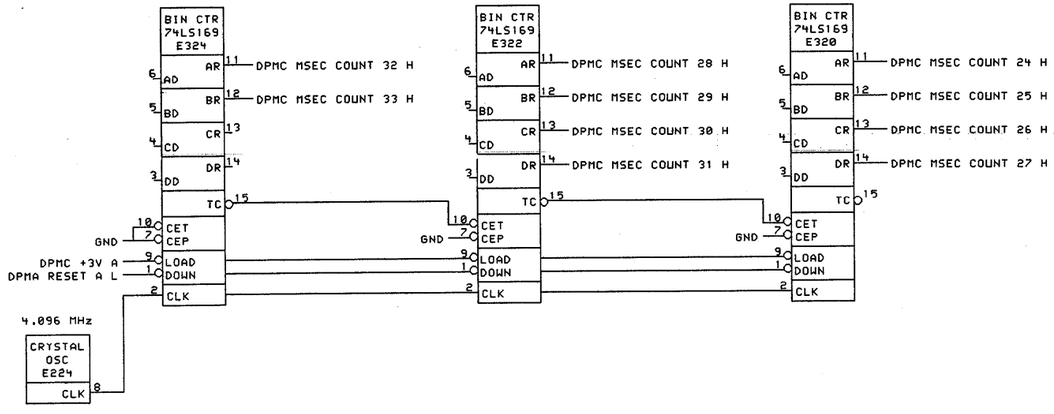


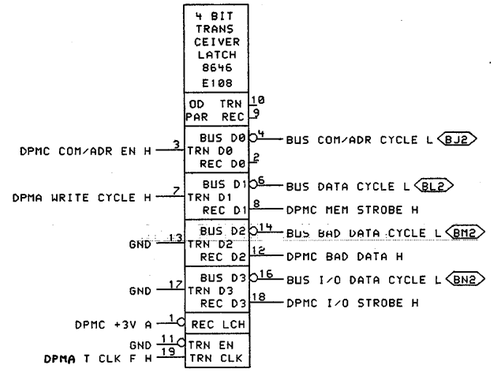












SHEET 12 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. B. Looney 29-MAR-78 | ENG. Ronald Lewis 1/MAR/78 | CHK'D B. Alden 29-MAR-78 | BOARD LOCATION: 1AF14 | SHEET 1 OF 1

DPMC.DRW[4,652] 27-MAR-78 15:18 | NEXT HIGHER ASSEMBLY: B-DD-M8621-0 | FIRST USED ON OPTION/MODEL: KS10

TITLE: DATA PATH MEMORY MORE CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPMC	A

1 MR

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPMD	A

+5.0V\V\ — GND TTL\G#18\

C505 10nF 50V — AA2
C506 10nF 50V — BA2
C507 10nF 50V — CA2
C508 10nF 50V — DA2
C509 10nF 50V — EA2
C510 10nF 50V — FA2
C511 10nF 50V — AV1
C512 10nF 50V — BV1
C513 10nF 50V — CV1
C514 10nF 50V — DV1
C515 10nF 50V — EV1
C516 10nF 50V — FV1
C517 10nF 50V — AC2
C518 10nF 50V — BC2
C519 10nF 50V — CC2
C520 10nF 50V — DC2
C521 10nF 50V — EC2
C522 10nF 50V — FC2
C523 10nF 50V — AT1
C524 10nF 50V — BT1

C601 10nF 50V — DT1
C602 10nF 50V — ET1
C603 10nF 50V — FT1
C604 10nF 50V
C605 10nF 50V
C606 10nF 50V
C607 10nF 50V
C608 10nF 50V
C609 10nF 50V
C610 10nF 50V
C611 10nF 50V
C612 10nF 50V
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C615 10nF 50V
C616 10nF 50V
C617 10nF 50V
C618 10nF 50V
C619 10nF 50V
C620 10nF 50V

C621 10nF 50V
C622 10nF 50V
C623 10nF 50V
C624 10nF 50V
C701 10nF 50V
C702 10nF 50V
C703 10nF 50V
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C719 10nF 50V
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C723 10nF 50V
C724 10nF 50V
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C811 10nF 50V
C812 10nF 50V
C813 10nF 50V
C814 10nF 50V
C815 10nF 50V

C816 10nF 50V
C817 10nF 50V
C818 10nF 50V
C905 10nF 50V
C906 10nF 50V
C907 10nF 50V
C908 10nF 50V
C909 10nF 50V
C910 10nF 50V
C911 10nF 50V
C912 10nF 50V
C913 10nF 50V
C914 10nF 50V
C915 10nF 50V
C916 10nF 50V
C917 10nF 50V
C918 10nF 50V
C919 10nF 50V
C920 10nF 50V
C921 10nF 50V

C922 10nF 50V — GND
C923 10nF 50V — GND TTL
C924 10nF 50V
C1 68µF 10V +
C2 68µF 10V +
C3 68µF 10V +
C4 68µF 10V +
C5 68µF 10V +
C6 68µF 10V +

AU2 — NC
BU2 — NC
CU2 — NC
DB1 — NC
FB1 — NC
CT1 — [B,GND,GND CLK\G#20\]

SHEET 13 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D. Toomey — DATE 22-MAR-78 — ENG. — DATE
CHK D. — DATE — BOARD LOCATION: 1AF14
SHEET 1 OF 1
DPMD.DRW[4,652] — 22-MAR-78 01:57 — NEXT HIGHER ASSEMBLY: B-DD-M8621-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: DATA PATH MEMORY POWER,GND,CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPMD	A

1 MR

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPME	A

+5.0V	GND
C101 10nF 50V	C121 10nF 50V
C102 10nF 50V	C122 10nF 50V
C103 10nF 50V	C123 10nF 50V
C104 10nF 50V	C124 10nF 50V
C105 10nF 50V	C201 10nF 50V
C106 10nF 50V	C202 10nF 50V
C107 10nF 50V	C203 10nF 50V
C108 10nF 50V	C204 10nF 50V
C109 10nF 50V	C205 10nF 50V
C110 10nF 50V	C206 10nF 50V
C111 10nF 50V	C207 10nF 50V
C112 10nF 50V	C208 10nF 50V
C113 10nF 50V	C209 10nF 50V
C114 10nF 50V	C210 10nF 50V
C115 10nF 50V	C211 10nF 50V
C116 10nF 50V	C212 10nF 50V
C117 10nF 50V	C213 10nF 50V
C118 10nF 50V	C214 10nF 50V
C119 10nF 50V	C215 10nF 50V
C120 10nF 50V	C216 10nF 50V

+5.0V	GND
C217 10nF 50V	C313 10nF 50V
C218 10nF 50V	C314 10nF 50V
C219 10nF 50V	C315 10nF 50V
C220 10nF 50V	C316 10nF 50V
C221 10nF 50V	C317 10nF 50V
C222 10nF 50V	C318 10nF 50V
C223 10nF 50V	C319 10nF 50V
C224 10nF 50V	C320 10nF 50V
C301 10nF 50V	C321 10nF 50V
C302 10nF 50V	C322 10nF 50V
C303 10nF 50V	C323 10nF 50V
C304 10nF 50V	C324 10nF 50V
C305 10nF 50V	C401 10nF 50V
C306 10nF 50V	C402 10nF 50V
C307 10nF 50V	C403 10nF 50V
C308 10nF 50V	C404 10nF 50V
C309 10nF 50V	C405 10nF 50V
C310 10nF 50V	C406 10nF 50V
C311 10nF 50V	C407 10nF 50V
C312 10nF 50V	C408 10nF 50V

+5.0V	GND
C409 10nF 50V	
C410 10nF 50V	
C411 10nF 50V	
C412 10nF 50V	
C413 10nF 50V	
C414 10nF 50V	
C415 10nF 50V	
C416 10nF 50V	
C417 10nF 50V	
C418 10nF 50V	
C419 10nF 50V	
C420 10nF 50V	
C421 10nF 50V	
C422 10nF 50V	
C423 10nF 50V	
C424 10nF 50V	
C501 10nF 50V	
C502 10nF 50V	
C503 10nF 50V	
C504 10nF 50V	

SHEET 14 OF 14

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. S. Toomey — DATE 29-MAR-78
CHK'D. — DATE
ENG. Sandra Lewis — DATE 1-APR-78
BOARD LOCATION: 1AF14
SHEET 1 OF 1

DPME.DRW[4,652] 22-MAR-78 15:31
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8621-0

TITLE: DATA PATH MEMORY +5.0V CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8621-0-DPME	A

1 MR

SIZE	CODE	NUMBER	REV.
B	DD	M8622-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8622-Ø-Ø	6		KS1Ø CRAM ADDRESS	A
K-PL-M8622-Ø-DBP	-		PARTS LIST DATA BASE (M8622)	A
D-CS-M8622-Ø-CRA1	1		CRAM ADDRESS, ADR BITS ØØ-11	A
D-CS-M8622-Ø-CRA2	1		CRAM ADDRESS, CONTROL	A
D-CS-M8622-Ø-CRA3	1		CRAM ADDRESS, SUBROUTINE STACK	A
D-CS-M8622-Ø-CRA4	1		CRAM ADDRESS, DIAGNOSTIC I	A
D-CS-M8622-Ø-CRA5	1		CRAM ADDRESS, BACKPANEL BUS	A
D-CS-M8622-Ø-CRA6	1		CRAM ADDRESS, CRAM REGISTER	A
D-CS-M8622-Ø-CRA7	1		CRAM ADDRESS, ADDRESS DRIVERS	A
D-CS-M8622-Ø-CRA8	1		CRAM ADDRESS, ØØ-Ø5, 12-17, 24-29	A
D-CS-M8622-Ø-CRA9	1		CRAM ADDRESS, Ø6-11, 18-23, 3Ø-35	A
D-CS-M8622-Ø-CRAA	1		CRAM ADDRESS, POWER,GND, CAPS	A
E-MD-5013197-0-0	6		DRILL,WIRE&COMP SCREEN DRAWING	A
	-	5013197	MULTIWIRE BOARD	A
K-PC-M8622-Ø-DBC	-		MULTIWIRE DATA BASE (M8622)	A
	-			
POO-M8622-ØØ	-		PROCESS SHEETS	REF

NOTES:

REVISIONS		
REV.	A	
CHG NO.	ORIG	
DATE	X	

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digital

USED ON OPTION/MODEL
KS1Ø

DRN.	R.W. Counter	8 Mar 78
CHK'D	R.W. Counter	8 Mar 78
ENG.	Donald Lewin	29 MAR 78
PROD.	W. Burr	30 Mar 78

TITLE: KS1Ø CRAM ADDRESS

SIZE	CODE	NUMBER	REV.
B	DD	M8622-Ø	A

SHEET 1 OF 1

DRB 126

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33(QTY 12)

32

SEE NOTE 7

SPARE

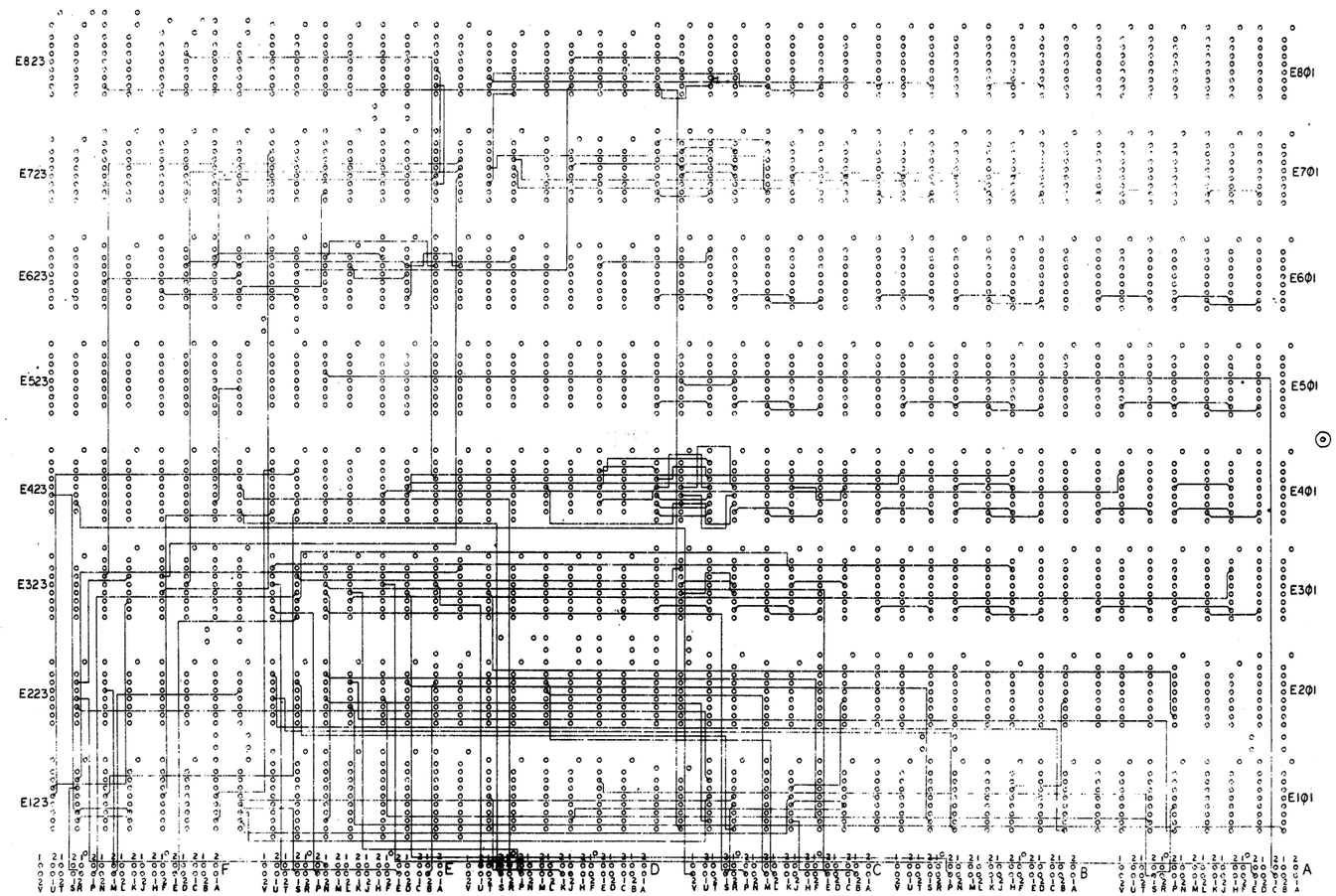
Ø-21
Ø-14
Ø-11
Ø-12
Ø-9
Ø-20
Ø-13
Ø-18
Ø-17
Ø-22
Ø-15
Ø-19
Ø-10
Ø-16

C001 C002 C003 C004 C005 C006

digital	DRN: E.Wilson	DATE: 8-OCT-77	ENG APP:	DATE:	TITLE: CRAM ADDRESS UNIT ASSEMBLY
	CHK'D: S.Cameron	DATE: 8-OCT-77	BOARD LOCATION:	OF 6	
UNLESS OTHER WISE SPECIFIED: FIRST USED ON OPTION/MODEL: KS10			NEXT HIGHER ASSEMBLY: B-DD-M9622-0		SIZE: E CODE: IUA NUMBER: M9622-0-0 REV: A


SEE NOTE 7
SPARE
C001
C002
C003
C004
C005
0-22
0-23
0-24
0-25
0-27
0-29
0-30
digital

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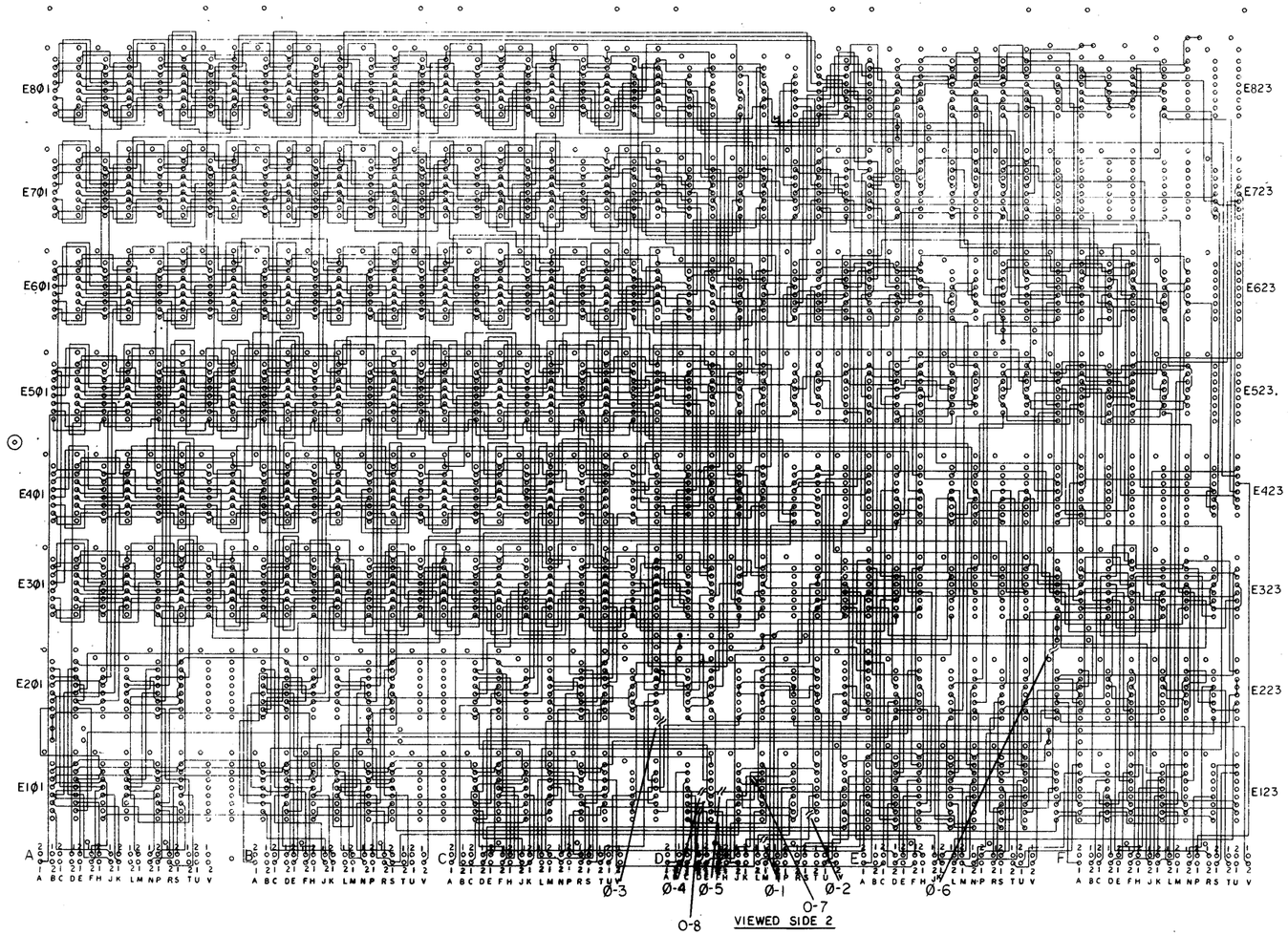
VIEWED SIDE 1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	*NUMBER	REV.
CRAM ADDRESS	E	UA	M8622-Ø-Ø	A
SCALE 2/1 SHEET 3 OF 6	DIST.			

E UA M8622-Ø-Ø A

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: CRAM ADDRESS		SIZE: E	CODE: UA	NUMBER: M8622-Ø-Ø
SCALE: 2/1	SHEET 4 OF 6	DIST.		REV: A

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E501 E601 E701 E801

E401

E301

E201

E101

E523 E623 E723 E823

E423

E323

E223

E123

VIEWED SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
CRAM ADDRESS	E	UA	M8622-0-0	A
SCALE 2/1	SHEET 5 OF 6		DIST.	

UA M8622-0-0 A

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NOTES:

1. FOR DRAWING DIRECTORY SEE B-DD-M8622-0.
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY

PACKAGE TYPE	+5.0V	GND
14 PIN DIP	14	7
16 PIN DIP	16	8
8646	20	5/5
1300005-01	14	N/A

3. THE NUMBERS ON THE FINGER PIN PTH'S INDICATE WHICH SIDE THE FINGER PIN IS ON
4. MAXIMUM COMPONENT HEIGHT IS .278
5. FINISHED HOLE SIZES ARE AS FOLLOWED, IN INCHES:
   + = .037 ±.003
   ✦ = .133 +.002, -.007
   X = .100 ±.003
   Δ = .025 +.003, -.004
6. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
7. E316 CANNOT BE USED AS A "SPARE" I.C. LOCATION.

REWORK INSTRUCTION

FIRST RELEASE

ETCH CUTS SIDE 2 AS SHOWN:

Ø-1 AT FINGER PIN DK2
Ø-2 AT E115-5
Ø-3 AT E212-6
Ø-4, Ø-5 AT E113-5 BOTH SIDES OF PTH
Ø-6 AT E328-9
Ø-7 AT E114-3
Ø-8 AT E113-16

WIRE ADDS SIDE 1 AS SHOWN:

Ø-9 FROM E212-6 TO E328-9
Ø-10 FROM E113-5 TO E113-4
Ø-11 FROM E316-4 TO E316-2
Ø-12 FROM E316-3 TO E316-7
Ø-13 FROM E316-12 TO E316-16
Ø-14 FROM E316-13 TO E316-15
Ø-15 FROM FINGER PIN DK2 PTH TO E221-11
Ø-16 FROM FINGER PIN BK1 PTH TO E221-14
Ø-17 FROM E221-8 TO E416-16
Ø-18 FROM E221-9 TO E222-8
Ø-19 FROM FINGER PIN DC1 PTH TO E222-11
Ø-20 FROM E222-16 TO E222-11
Ø-21 FROM E222-7 TO E416-15
Ø-22 FROM E115-5 TO E416-11
Ø-23 LIFT LEG OF E213-16 AND ADD WIRE FROM LEG TO E112-12

→ SEE SHEET "1 OF 6 "UA"

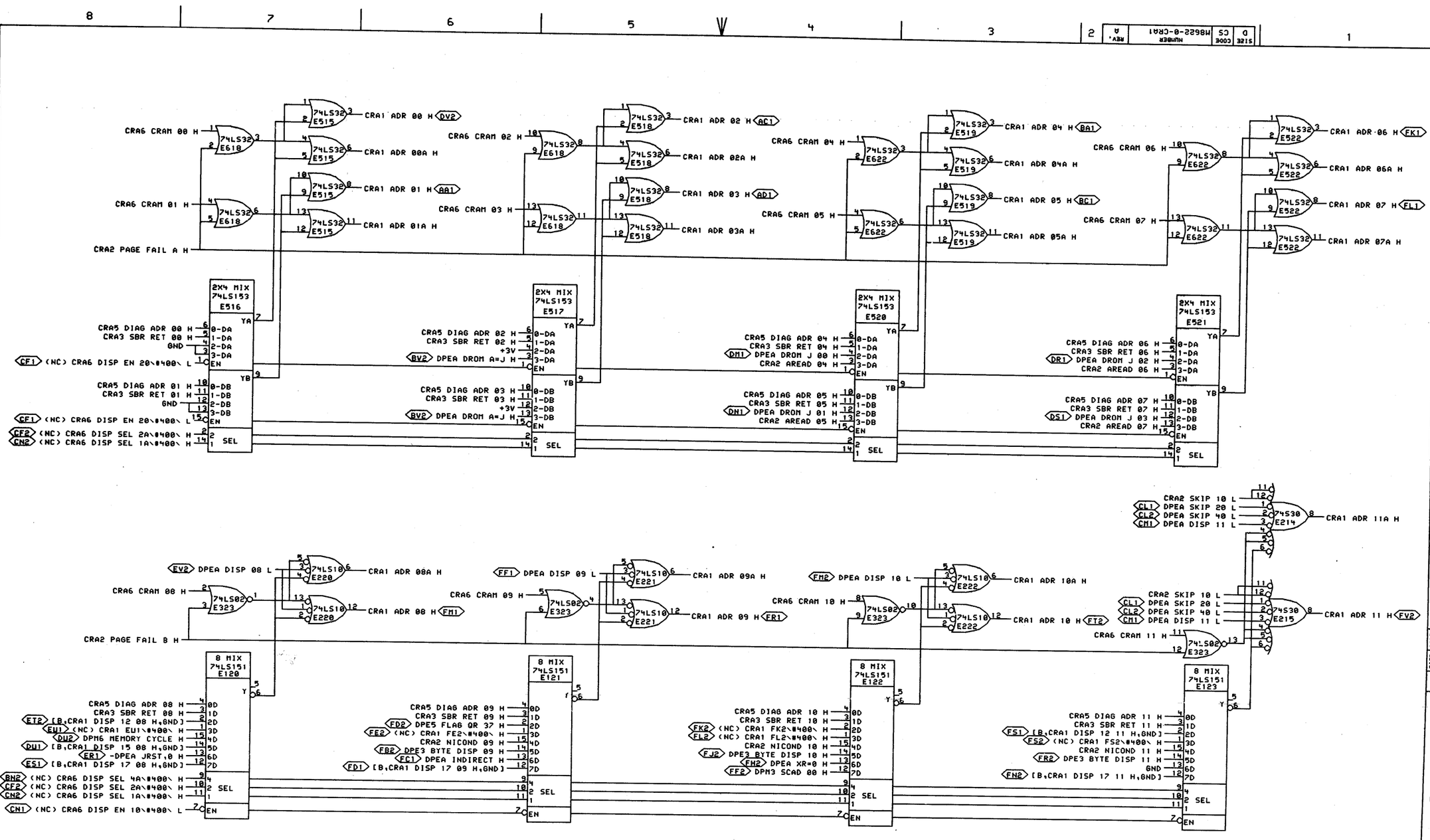
Ø-24 FROM E112-13 TO E119-1
Ø-25 FROM E114-3 TO E108-13
Ø-26 FROM E113-16 TO E108-1
Ø-27 FROM E121-15 TO E108-4
Ø-28 FROM E108-4 TO RIGHT LEG OF R14
Ø-29 FROM E108-8 TO E109-8
Ø-30 FROM E108-16 TO E109-16

→ SEE SHEET "2 OF 6 "UA"

REVISIONS		
ECO	CHANGE NO.	REV.

TITLE	SIZE	NUMBER	REV.
CRAM ADDRESS	E	M8622-Ø-Ø	A
SCALE —	SHEET 1 OF 6	DIST.	

M8622-0-0 REV A



SHEET 1 OF 10

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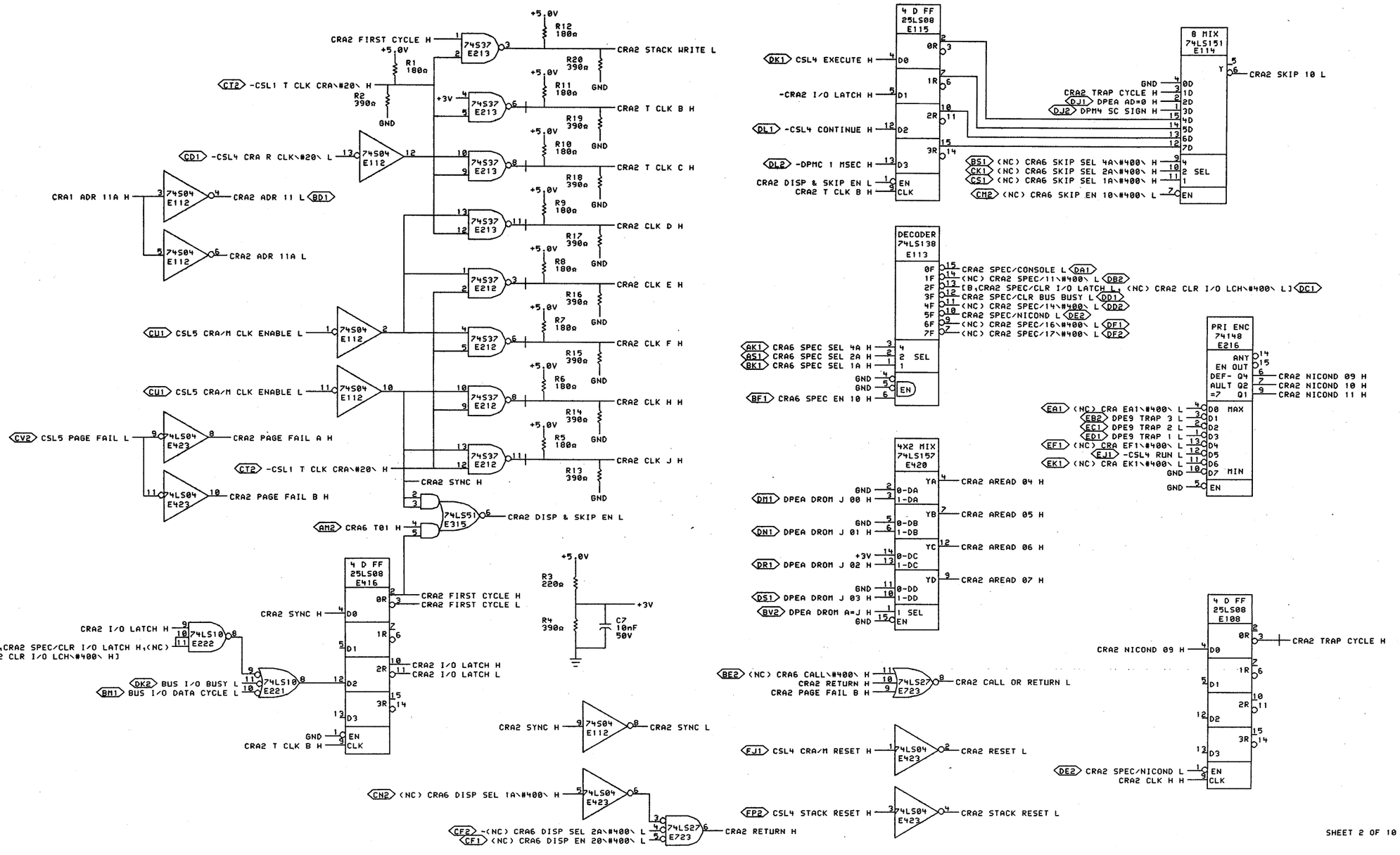
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. Toomey 13-MAR-78
CHK [illegible] 13-MAR-78
ENG. [illegible] 29-MAR-78
CRA1.DRW[4,653] 13-MAR-78 14:37
BOARD LOCATION: 1AF12
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8622-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CRAM ADDRESS ADR BITS 00-11

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA1	A



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REVISIONS		
CHK	CHANGE NO.	REV

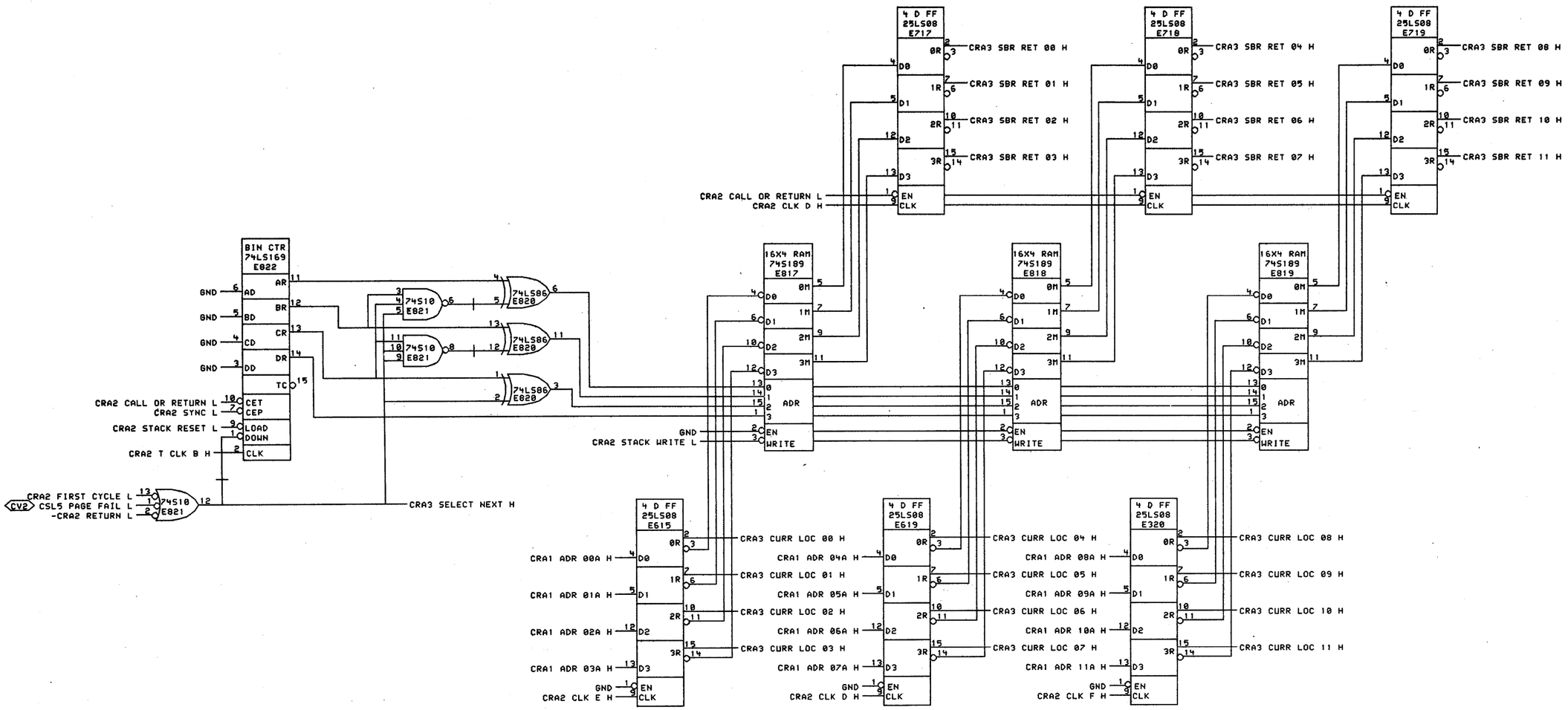
digital

DRW. J. Toomy 28-MAR-78
CHK
ENG. Donald Levine 29-MAR-78
DATE
BOARD LOCATION: 1AF12
SHEET 1 OF 1

CRA2.DRW[4,6533] 28-MAR-78 21:03
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8622-0

TITLE: CRAM ADDRESS CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA2	A



SHEET 3 OF 10

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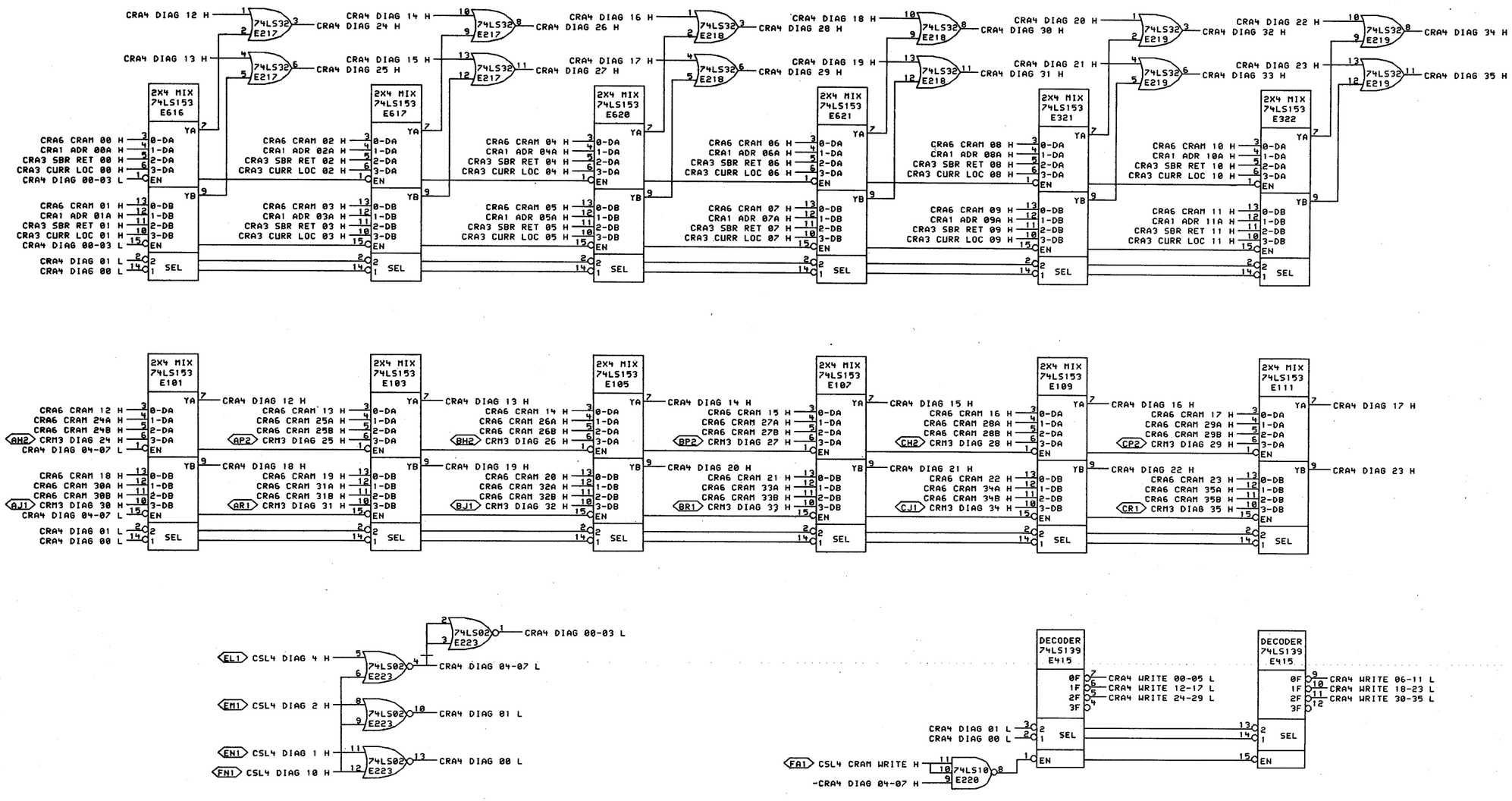
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN J. Toomey — DATE 13-MAR-78 — ENG. Donald Levine — DATE 29-MAR-78
CHK'D — DATE — BOARD LOCATION: 1AF12
CRA3.DRW[4,6531] 13-MAR-78 14:37 — SHEET 1 OF 1 — NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8622-0

TITLE: CRAM ADDRESS SUBROUTINE STACK

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA3	A



SHEET 4 OF 10

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REVISIONS		
CHK	CHANGE NO.	REV

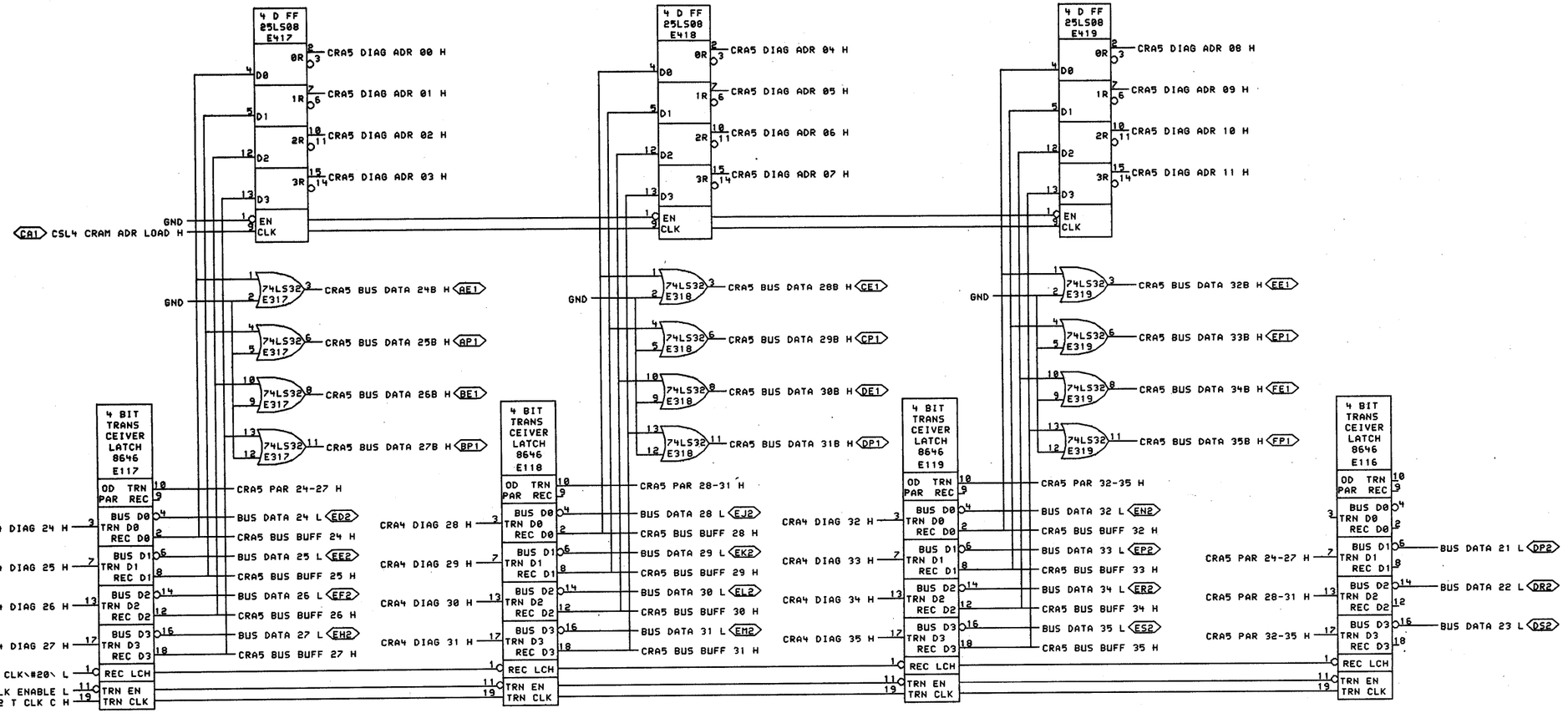
digital

DRW. D.Toomby 13-MAR-78
CHK'D. [illegible] 3/6/78
ENG. [illegible] 13-MAR-78
BOARD LOCATION: 1AF12
SHEET 1 OF 1
CRA4.DRW[4,653] 13-MAR-78 14:42
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-DD-M8622-0

TITLE: CRAM ADDRESS DIAGNOSTICS 1

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA4	A

SIZE D | CODE CS | NUMBER M8622-0-CRA4 | REV. A



SHEET 5 OF 10

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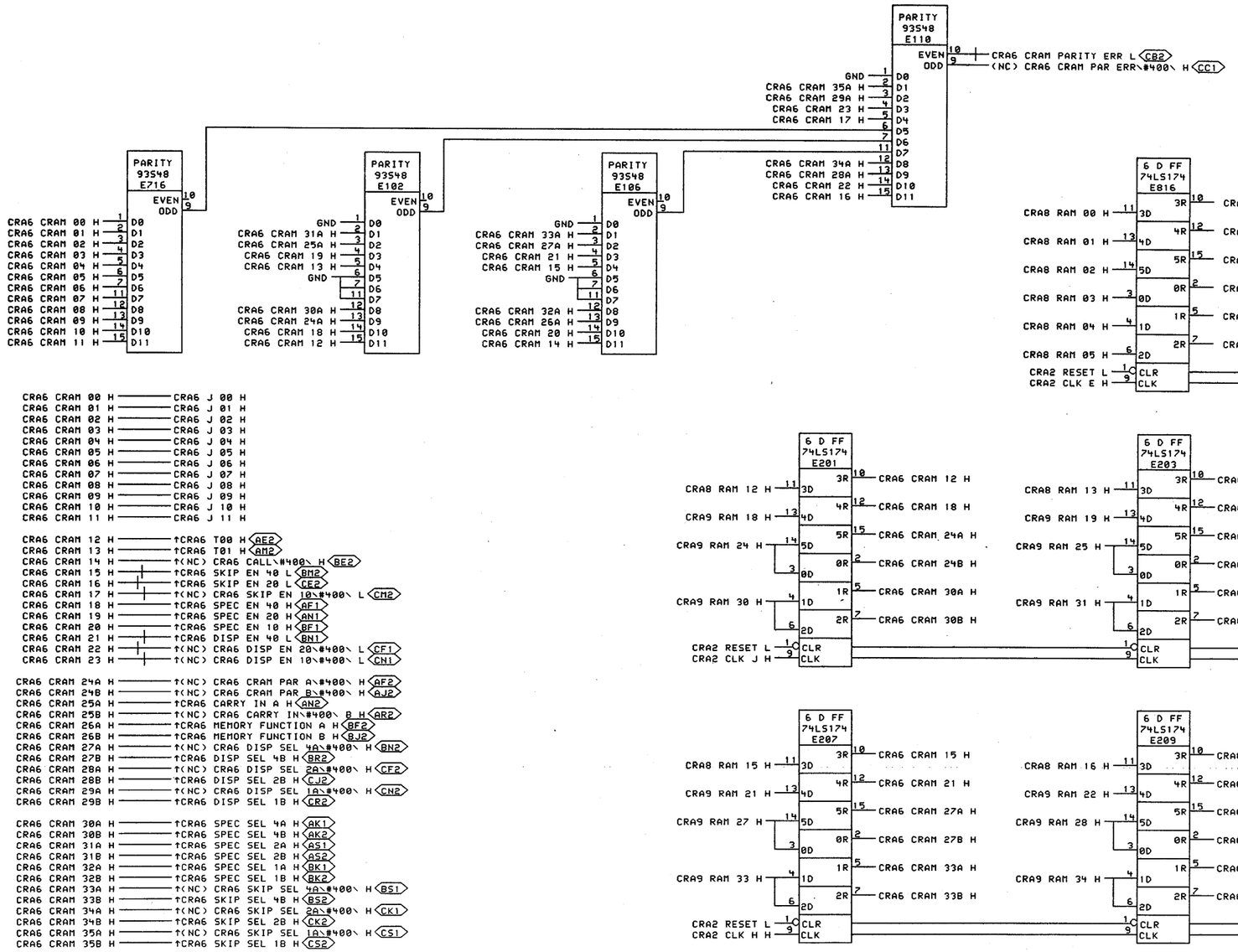
CHK	CHANGE NO.	REV

digital

DRN. S.Toomey 13-MAR-78
CHK'D. R.Gustafson 3/14/78
ENG. Donald Levine 24-MAR-78
BOARD LOCATION: 1AF12
SHEET 1 OF 1
CRA5.DRW[4,653] 13-MAR-78 14:54
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8622-0

TITLE: CRAM ADDRESS BACKPANEL BUS

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA5	A



CRA6 CRAM 00 H — CRA6 J 00 H
CRA6 CRAM 01 H — CRA6 J 01 H
CRA6 CRAM 02 H — CRA6 J 02 H
CRA6 CRAM 03 H — CRA6 J 03 H
CRA6 CRAM 04 H — CRA6 J 04 H
CRA6 CRAM 05 H — CRA6 J 05 H
CRA6 CRAM 06 H — CRA6 J 06 H
CRA6 CRAM 07 H — CRA6 J 07 H
CRA6 CRAM 08 H — CRA6 J 08 H
CRA6 CRAM 09 H — CRA6 J 09 H
CRA6 CRAM 10 H — CRA6 J 10 H
CRA6 CRAM 11 H — CRA6 J 11 H

CRA6 CRAM 12 H — ↑CRA6 T00 H AE2
CRA6 CRAM 13 H — ↑CRA6 T01 H AM2
CRA6 CRAM 14 H — ↑(NC) CRA6 CALL\#400\ H BE2
CRA6 CRAM 15 H — ↑CRA6 SKIP EN 40 L BM2
CRA6 CRAM 16 H — ↑CRA6 SKIP EN 20 L CE2
CRA6 CRAM 17 H — ↑(NC) CRA6 SKIP EN 10\#400\ L CM2
CRA6 CRAM 18 H — ↑CRA6 SPEC EN 40 H AF1
CRA6 CRAM 19 H — ↑CRA6 SPEC EN 20 H AN1
CRA6 CRAM 20 H — ↑CRA6 SPEC EN 10 H BF1
CRA6 CRAM 21 H — ↑CRA6 DISP EN 40 L BN1
CRA6 CRAM 22 H — ↑(NC) CRA6 DISP EN 20\#400\ L CF1
CRA6 CRAM 23 H — ↑(NC) CRA6 DISP EN 10\#400\ L CN1

CRA6 CRAM 24A H — ↑(NC) CRA6 CRAM PAR A\#400\ H AF2
CRA6 CRAM 24B H — ↑(NC) CRA6 CRAM PAR B\#400\ H AJ2
CRA6 CRAM 25A H — ↑CRA6 CARRY IN A H AN2
CRA6 CRAM 25B H — ↑(NC) CRA6 CARRY IN\#400\ B H AR2
CRA6 CRAM 26A H — ↑CRA6 MEMORY FUNCTION A H BF2
CRA6 CRAM 26B H — ↑CRA6 MEMORY FUNCTION B H BJ2
CRA6 CRAM 27A H — ↑(NC) CRA6 DISP SEL 4A\#400\ H BN2
CRA6 CRAM 27B H — ↑CRA6 DISP SEL 4B H BR2
CRA6 CRAM 28A H — ↑(NC) CRA6 DISP SEL 2A\#400\ H CF2
CRA6 CRAM 28B H — ↑CRA6 DISP SEL 2B H CJ2
CRA6 CRAM 29A H — ↑(NC) CRA6 DISP SEL 1A\#400\ H CM2
CRA6 CRAM 29B H — ↑CRA6 DISP SEL 1B H CR2

CRA6 CRAM 30A H — ↑CRA6 SPEC SEL 4A H AK1
CRA6 CRAM 30B H — ↑CRA6 SPEC SEL 4B H AK2
CRA6 CRAM 31A H — ↑CRA6 SPEC SEL 2A H AS1
CRA6 CRAM 31B H — ↑CRA6 SPEC SEL 2B H AS2
CRA6 CRAM 32A H — ↑CRA6 SPEC SEL 1A H BK1
CRA6 CRAM 32B H — ↑CRA6 SPEC SEL 1B H BK2
CRA6 CRAM 33A H — ↑(NC) CRA6 SKIP SEL 4A\#400\ H BS1
CRA6 CRAM 33B H — ↑CRA6 SKIP SEL 4B H BS2
CRA6 CRAM 34A H — ↑(NC) CRA6 SKIP SEL 2A\#400\ H CK1
CRA6 CRAM 34B H — ↑CRA6 SKIP SEL 2B H CK2
CRA6 CRAM 35A H — ↑(NC) CRA6 SKIP SEL 1A\#400\ H CS1
CRA6 CRAM 35B H — ↑CRA6 SKIP SEL 1B H CS2

SHEET 6 OF 10

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. D. Toomey — DATE 28-MAR-78
CHK'D. — DATE
ENG. Donald Lemone — DATE 21-MAR-78
BOARD LOCATION: 1AF12
SHEET 1 OF 1

CRA6.DRW[4,653] 28-MAR-78 20:59
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 — B-DD-M8622-0

TITLE: CRAM ADDRESS CRAM REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA6	A

SIZE D | CODE CS | NUMBER M8622-0-CRA6 | REV. A

CRA1 ADR 01A H					
	74LS04 E813 3→4 CRA7 ADR 01 A L	74LS04 E713 3→4 CRA7 ADR 01 B L	74LS04 E613 3→4 CRA7 ADR 01 C L	74LS04 E513 3→4 CRA7 ADR 01 D L	74LS04 E413 3→4 CRA7 ADR 01 E L	74LS04 E313 3→4 CRA7 ADR 01 F L
CRA1 ADR 02A H	74LS04 E813 13→12 CRA7 ADR 02 A L	74LS04 E713 13→12 CRA7 ADR 02 B L	74LS04 E613 13→12 CRA7 ADR 02 C L	74LS04 E513 13→12 CRA7 ADR 02 D L	74LS04 E413 13→12 CRA7 ADR 02 E L	74LS04 E313 13→12 CRA7 ADR 02 F L
CRA1 ADR 03A H	74LS04 E813 5→6 CRA7 ADR 03 A L	74LS04 E713 5→6 CRA7 ADR 03 B L	74LS04 E613 5→6 CRA7 ADR 03 C L	74LS04 E513 5→6 CRA7 ADR 03 D L	74LS04 E413 5→6 CRA7 ADR 03 E L	74LS04 E313 5→6 CRA7 ADR 03 F L
CRA1 ADR 04A H	74LS04 E813 11→10 CRA7 ADR 04 A L	74LS04 E713 11→10 CRA7 ADR 04 B L	74LS04 E613 11→10 CRA7 ADR 04 C L	74LS04 E513 11→10 CRA7 ADR 04 D L	74LS04 E413 11→10 CRA7 ADR 04 E L	74LS04 E313 11→10 CRA7 ADR 04 F L
CRA1 ADR 05A H	74LS04 E813 9→8 CRA7 ADR 05 A L	74LS04 E713 9→8 CRA7 ADR 05 B L	74LS04 E613 9→8 CRA7 ADR 05 C L	74LS04 E513 9→8 CRA7 ADR 05 D L	74LS04 E413 9→8 CRA7 ADR 05 E L	74LS04 E313 9→8 CRA7 ADR 05 F L
-CRA2 ADR 11A H	74LS04 E813 1→2 CRA7 SEL EVEN A L	74LS04 E713 1→2 CRA7 SEL EVEN B L	74LS04 E613 1→2 CRA7 SEL EVEN C L	74LS04 E513 1→2 CRA7 SEL EVEN D L	74LS04 E413 1→2 CRA7 SEL EVEN E L	74LS04 E313 1→2 CRA7 SEL EVEN F L

CRA1 ADR 06A H					
	74LS04 E814 5→6 CRA7 ADR 06 A L	74LS04 E714 5→6 CRA7 ADR 06 B L	74LS04 E614 5→6 CRA7 ADR 06 C L	74LS04 E514 5→6 CRA7 ADR 06 D L	74LS04 E414 5→6 CRA7 ADR 06 E L	74LS04 E314 5→6 CRA7 ADR 06 F L
CRA1 ADR 07A H	74LS04 E814 9→8 CRA7 ADR 07 A L	74LS04 E714 9→8 CRA7 ADR 07 B L	74LS04 E614 9→8 CRA7 ADR 07 C L	74LS04 E514 9→8 CRA7 ADR 07 D L	74LS04 E414 9→8 CRA7 ADR 07 E L	74LS04 E314 9→8 CRA7 ADR 07 F L
CRA1 ADR 08A H	74LS04 E814 3→4 CRA7 ADR 08 A L	74LS04 E714 3→4 CRA7 ADR 08 B L	74LS04 E614 3→4 CRA7 ADR 08 C L	74LS04 E514 3→4 CRA7 ADR 08 D L	74LS04 E414 3→4 CRA7 ADR 08 E L	74LS04 E314 3→4 CRA7 ADR 08 F L
CRA1 ADR 09A H	74LS04 E814 11→10 CRA7 ADR 09 A L	74LS04 E714 11→10 CRA7 ADR 09 B L	74LS04 E614 11→10 CRA7 ADR 09 C L	74LS04 E514 11→10 CRA7 ADR 09 D L	74LS04 E414 11→10 CRA7 ADR 09 E L	74LS04 E314 11→10 CRA7 ADR 09 F L
CRA1 ADR 10A H	74LS04 E814 13→12 CRA7 ADR 10 A L	74LS04 E714 13→12 CRA7 ADR 10 B L	74LS04 E614 13→12 CRA7 ADR 10 C L	74LS04 E514 13→12 CRA7 ADR 10 D L	74LS04 E414 13→12 CRA7 ADR 10 E L	74LS04 E314 13→12 CRA7 ADR 10 F L
CRA1 ADR 11A H	74LS04 E814 1→2 CRA7 SEL ODD A L	74LS04 E714 1→2 CRA7 SEL ODD B L	74LS04 E614 1→2 CRA7 SEL ODD C L	74LS04 E514 1→2 CRA7 SEL ODD D L	74LS04 E414 1→2 CRA7 SEL ODD E L	74LS04 E314 1→2 CRA7 SEL ODD F L

SHEET 7 OF 10

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REVISIONS

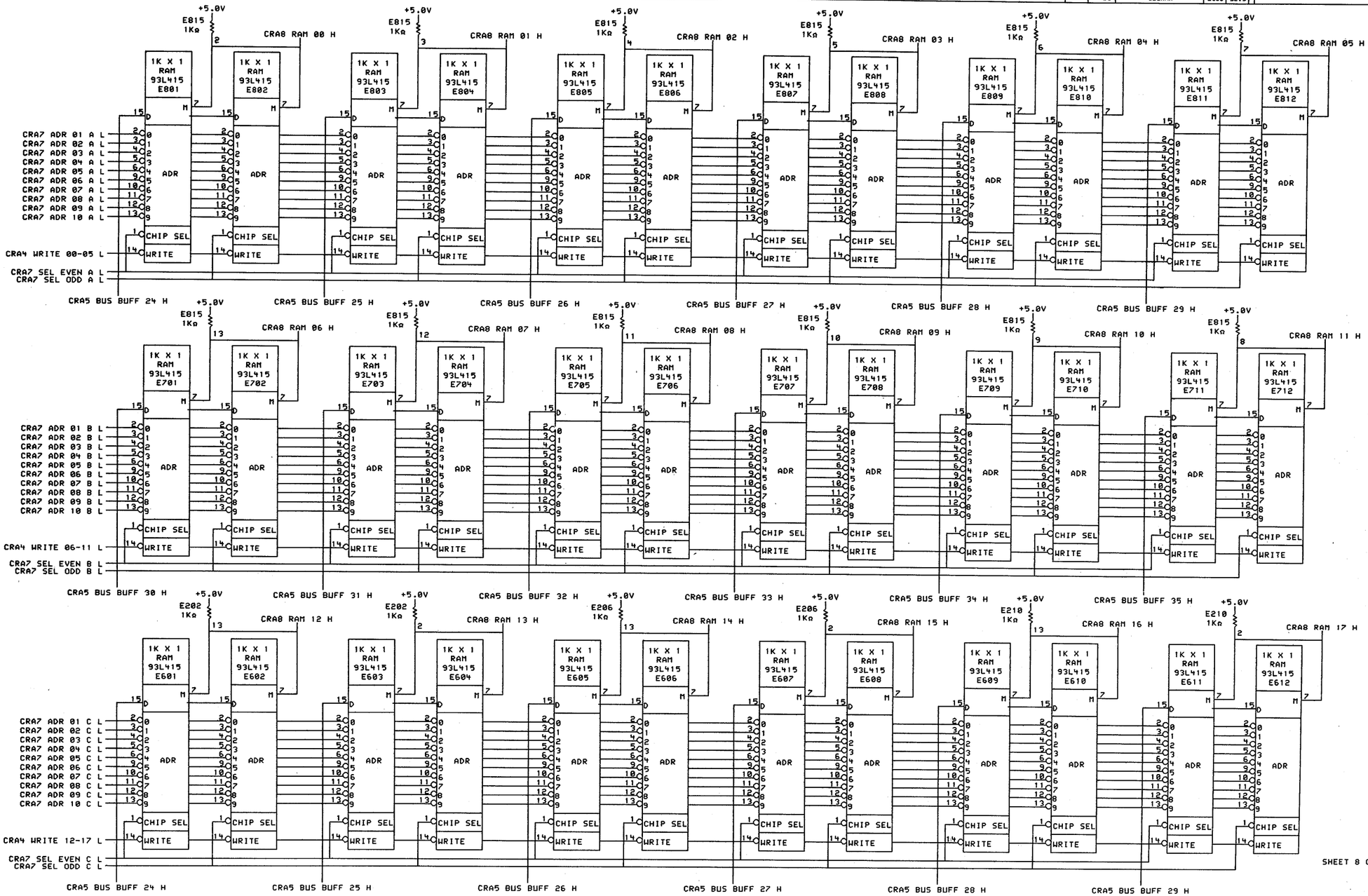
CHK	CHANGE NO.	REV

digital

DRW. D. Toomey DATE 13-MAR-78
CHK D. ENG. Donald Lewis DATE 23-MAR-78
DATE 3/19/78 BOARD LOCATION: 1AF12
CRA7.DRW[4,653] 13-MAR-78 15:14 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: KS10 NEXT HIGHER ASSEMBLY: B-DD-M8622-0

TITLE: CRAM ADDRESS ADDRESS DRIVERS

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA7	A



SHEET 8 OF 10

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REVISIONS		
CHK	CHANGE NO.	REV

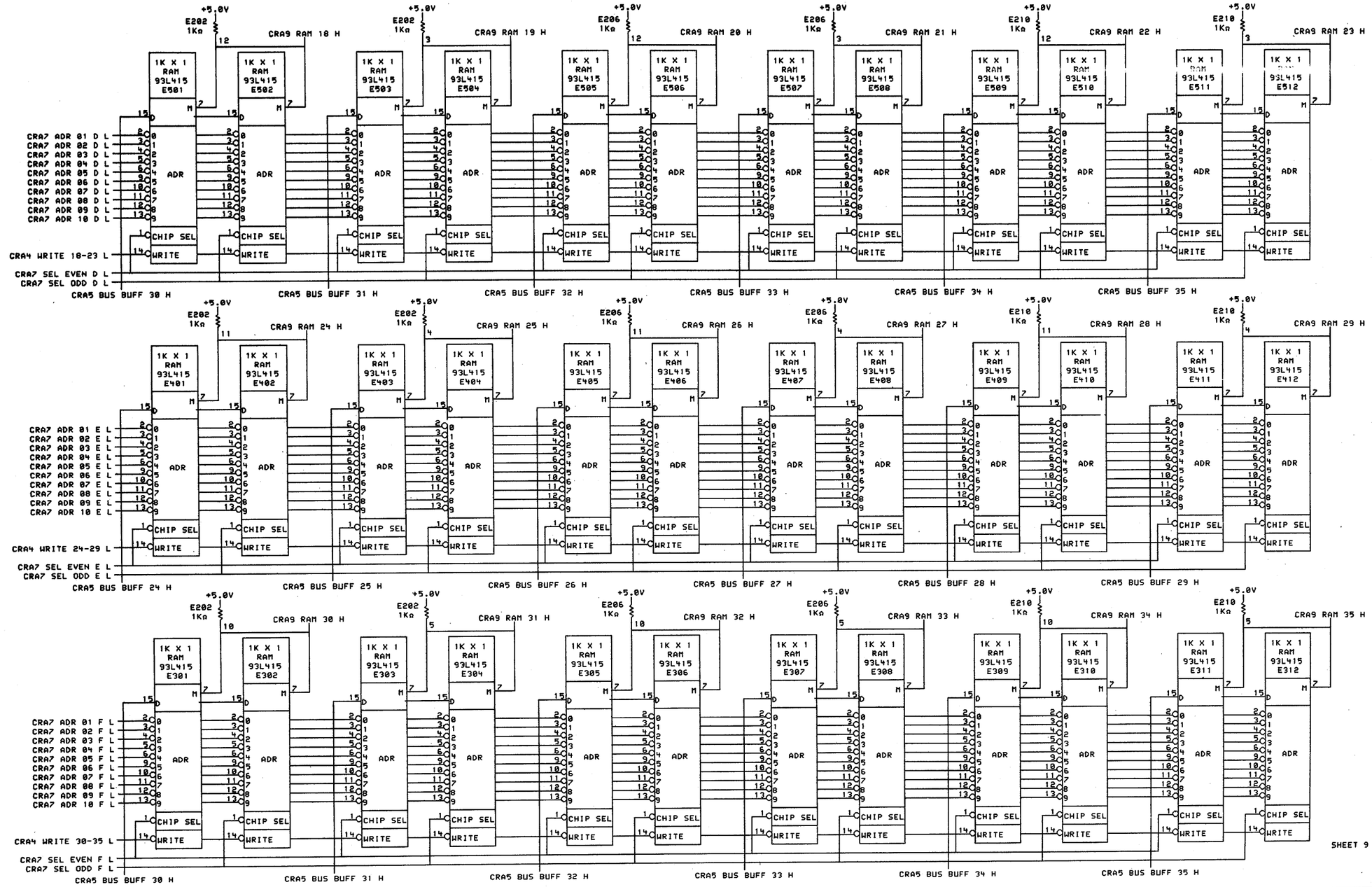
digital

DRN. D.Toomey
CHK D.
DATE 13-MAR-78
ENG. Gerald Stone DATE 29-MAR-78
DATE
BOARD LOCATION: 1AF12
SHEET 1 OF 1
CRA8.DRW[4,653] 13-MAR-78 15:17
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-DD-M8622-0

TITLE: CRAM ADDRESS 00-05 12-17 24-29

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA8	A

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA8	A



SHEET 9 OF 10

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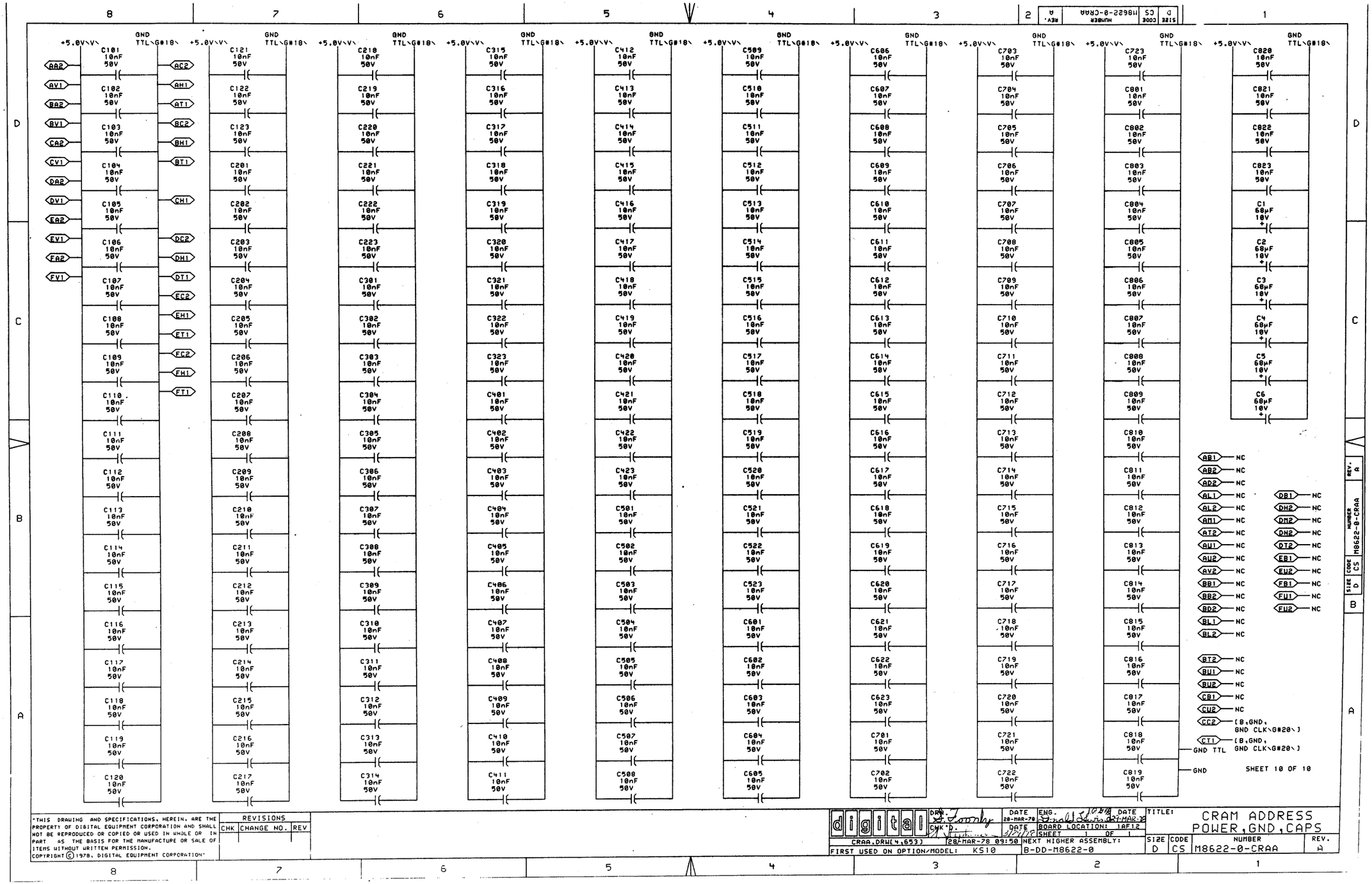
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. T.Toomey 13-MAR-78
CHK. M.Glynn 3/14/78
ENG. Donald Lewis 29-MAR-78
BOARD LOCATION: 1AF12
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8622-0
FIRST USED ON OPTION/MODEL: KS10
CRA9.DRW[4,653] 13-MAR-78 15:19

TITLE: CRAM ADDRESS 06-11 18-23 30-35

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRA9	A



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. Toomey 28-MAR-78
CHK'D. 3/27/78
ENG. 28-MAR-78
DATE
BOARD LOCATION: 1AF12
SHEET 1 OF 1
CRAA.DRW[4,653] 28-MAR-78 09:50
NEXT HIGHER ASSEMBLY: B-DD-M8622-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CRAM ADDRESS POWER,GND,CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8622-0-CRAA	A

SIZE	CODE	NUMBER	REV.
B	DD	M8623-Ø	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8623-Ø-Ø	5		KS1Ø CONTROL RAM	A
K-PL-M8623-Ø-DBP	–		PARTS LIST DATA BASE (M8623)	A
D-CS-M8623-Ø-CRM1	1		CONTROL RAM, ADDRESS DRIVERS	A
D-CS-M8623-Ø-CRM2	1		CONTROL RAM, OUTPUT REGISTERS	A
D-CS-M8623-Ø-CRM3	1		CONTROL RAM, PAR & DIAG	A
D-CS-M8623-Ø-CRM4	1		CONTROL RAM, RAMS 36-47	A
D-CS-M8623-Ø-CRM5	1		CONTROL RAM, RAMS 48-59	A
D-CS-M8623-Ø-CRM6	1		CONTROL RAM, RAMS 60-71	A
D-CS-M8623-Ø-CRM7	1		CONTROL RAM, RAMS 72-83	A
D-CS-M8623-Ø-CRM8	1		CONTROL RAM, RAMS 84-95	A
D-CS-M8623-Ø-CRM9	1		CONTROL RAM, POWER, GROUND, CAPS	A
E-MD-5013198-0-0	5		DRILL, WIRE, & COMP SCREEN, DRAWING	A
	–	5013198	MULTIWIRE BOARD	A
K-PC-M8623-Ø-DBC	–		MULTIWIRE DATA BASE (M8623)	A
	–			
POO-M8623-ØØ	–		PROCESS SHEETS	REF

NOTES:

REVISIONS	
REV.	X
CHG NO.	ORIG
DATE	X

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digital

USED ON OPTION/MODEL	
KS1Ø	

DRN. E. Wilson	8-MAR-78	
CHK'D R.W. Caunter	8 Mar 78	
ENG. Gerald Levine	29-MAR-78	
PROD. W. Bishop	30 Mar 78	

TITLE: KS1Ø CONTROL RAM

SIZE	CODE	NUMBER	REV.
B	DD	M8623-Ø	A

SHEET 1 OF 1

DRB 126

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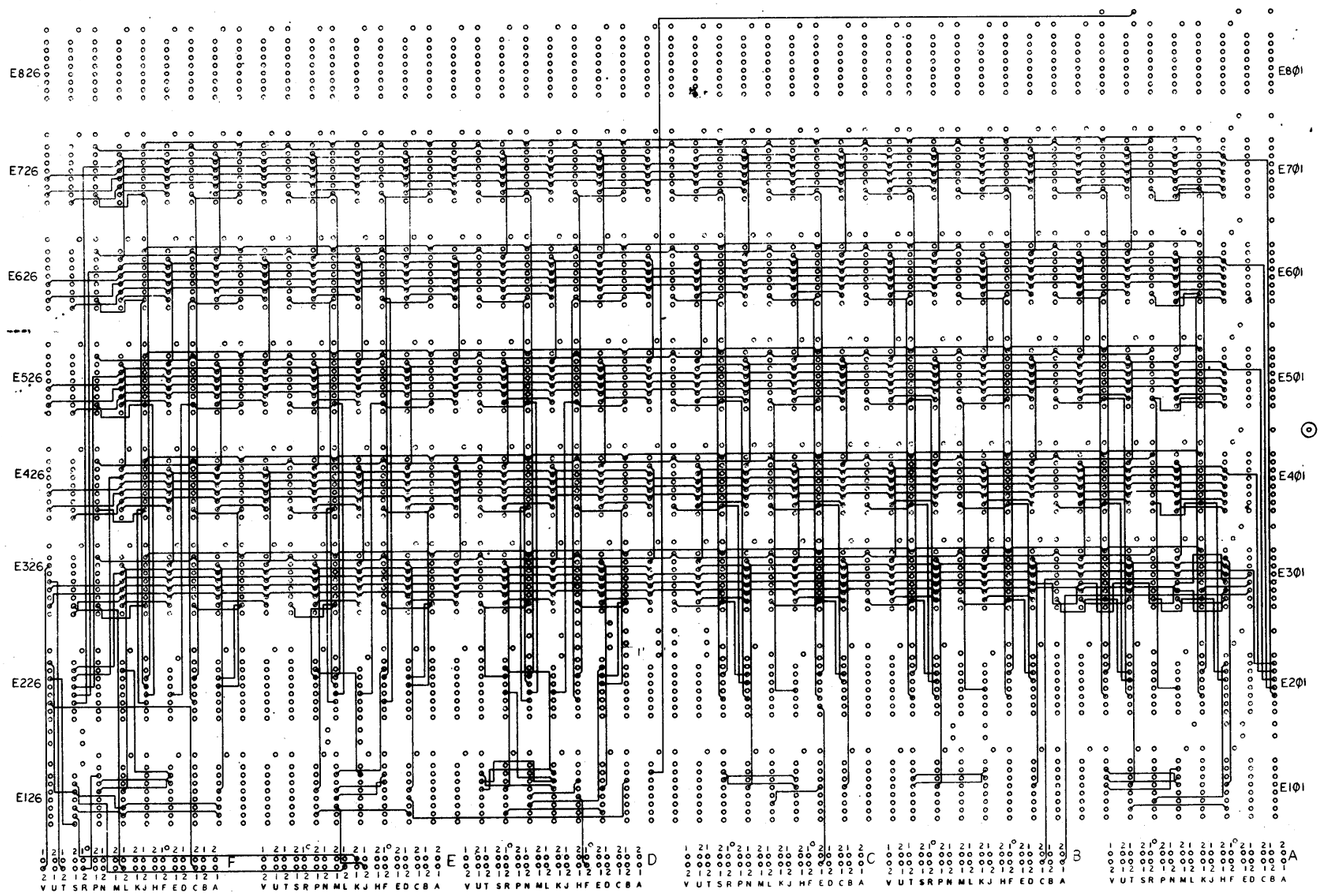
5(QTY 12)

4

SPARE

| | | |

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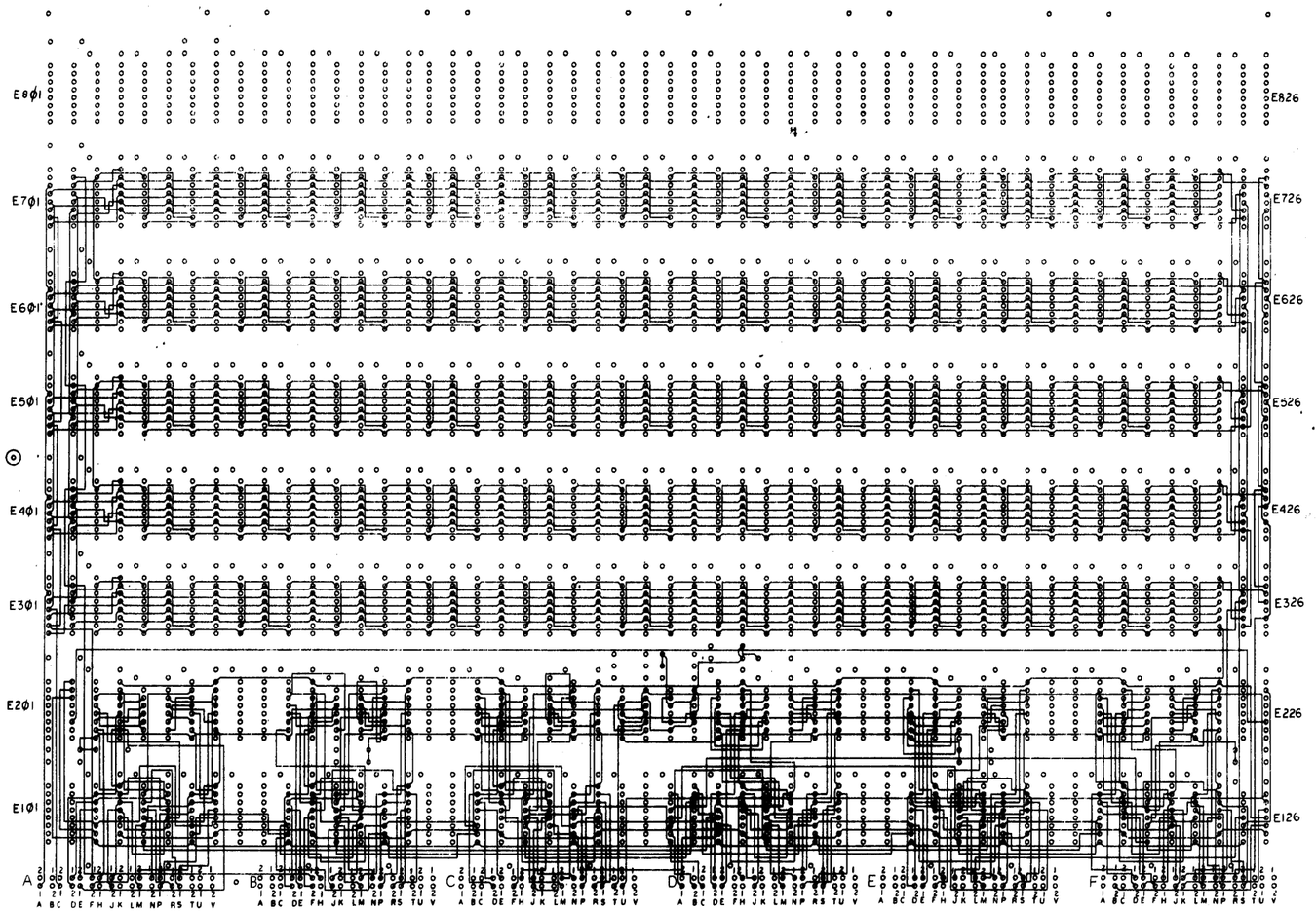
VIEWED SIDE 1

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	CONTROL RAM			
SIZE	CODE	NUMBER	REV.	
E	UA	M8623-Ø-Ø	A	
SCALE 2/1	SHEET 2 OF 5	DIST.		

UA M8623-Ø-Ø A

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VIEWED SIDE 2

CONTROL RAM					
SCALE 2/1	SHEET 3 OF 5	SIZE/CAGE E	NUMBER UA M8623-Ø-Ø	REV A	
		DIST.			

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E5Ø1 E6Ø1 E7Ø1 E8Ø1

E4Ø1 E3Ø1 E2Ø1 E1Ø1

E526 E626 E726 E826

E426 E326 E226 E126

A B C D E F

VIEWED SIDE 2

REVISIONS		
CHR	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
CONTROL RAM	E	UA	M8623-Ø-Ø	A
SCALE 2/1	SHEET 4 OF 5	DIST.		

E UA M8623-Ø-Ø A

NOTES:

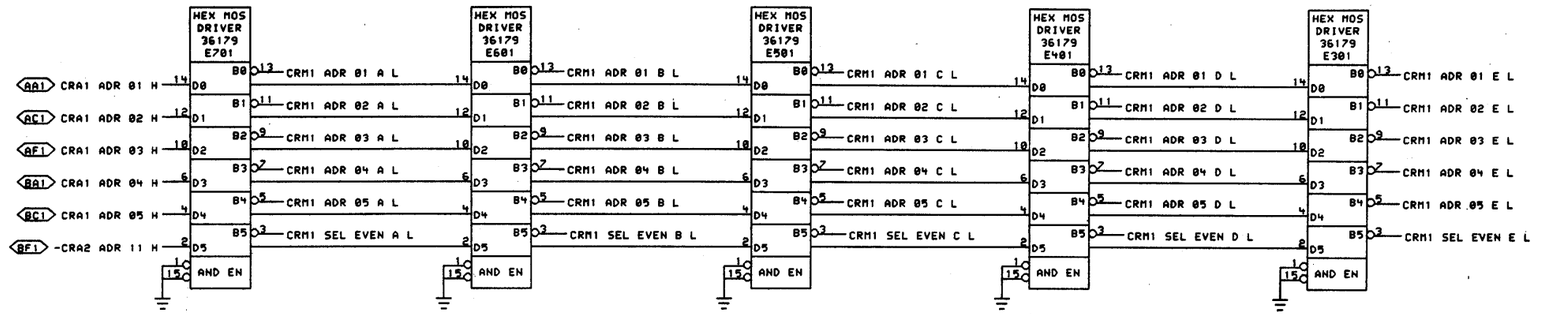
1. FOR DRAWING DIRECTORY SEE B-DD-M8623-Ø.
2. UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY:

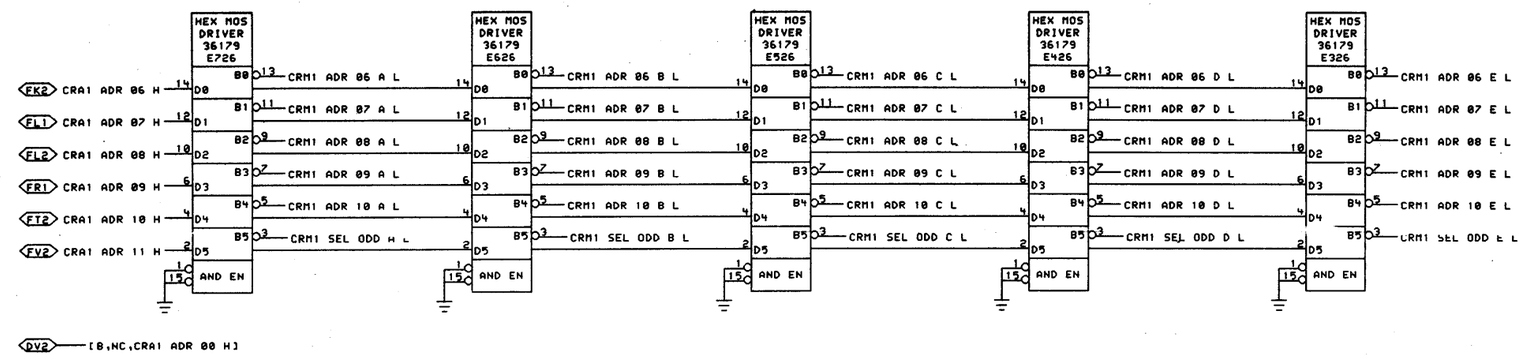
PACKAGE TYPE	+5.ØV	GND
16 PIN DIP	16	8
14 PIN DIP	14	7
1300005-01	14	N/A

3. THE NUMBERS ON THE FINGER PIN PTHS INDICATE WHICH SIDE THE FINGER PIN IS ON.
4. MAXIMUM COMPONENT HEIGHT IS .218
5. DRILLING INFORMATION IS COMPRISED OF FINISHED HOLE SIZES ONLY. THE SIZES ARE AS FOLLOWS IN INCHES:
   + = .037 ± .003
   ◇ = .133 +.002 -.007
   X = .100 ± .005
   △ = .025 +.005 -.006
6. MAXIMUM COMPONENT LEAD PROTRUSION IS .047
7. ON EARLY MODULES, THE MARKING FOR "MARK BIT" AND "GND" MAY BE REVERSED.

TITLE	SIZE	NUMBER	REV.
CONTROL RAM	B	UAM8623-Ø-Ø	A
SCALE	SHEET 5 OF 5		
	DRFT.		

UAM8623-Ø-Ø A





SHEET 1 OF 9

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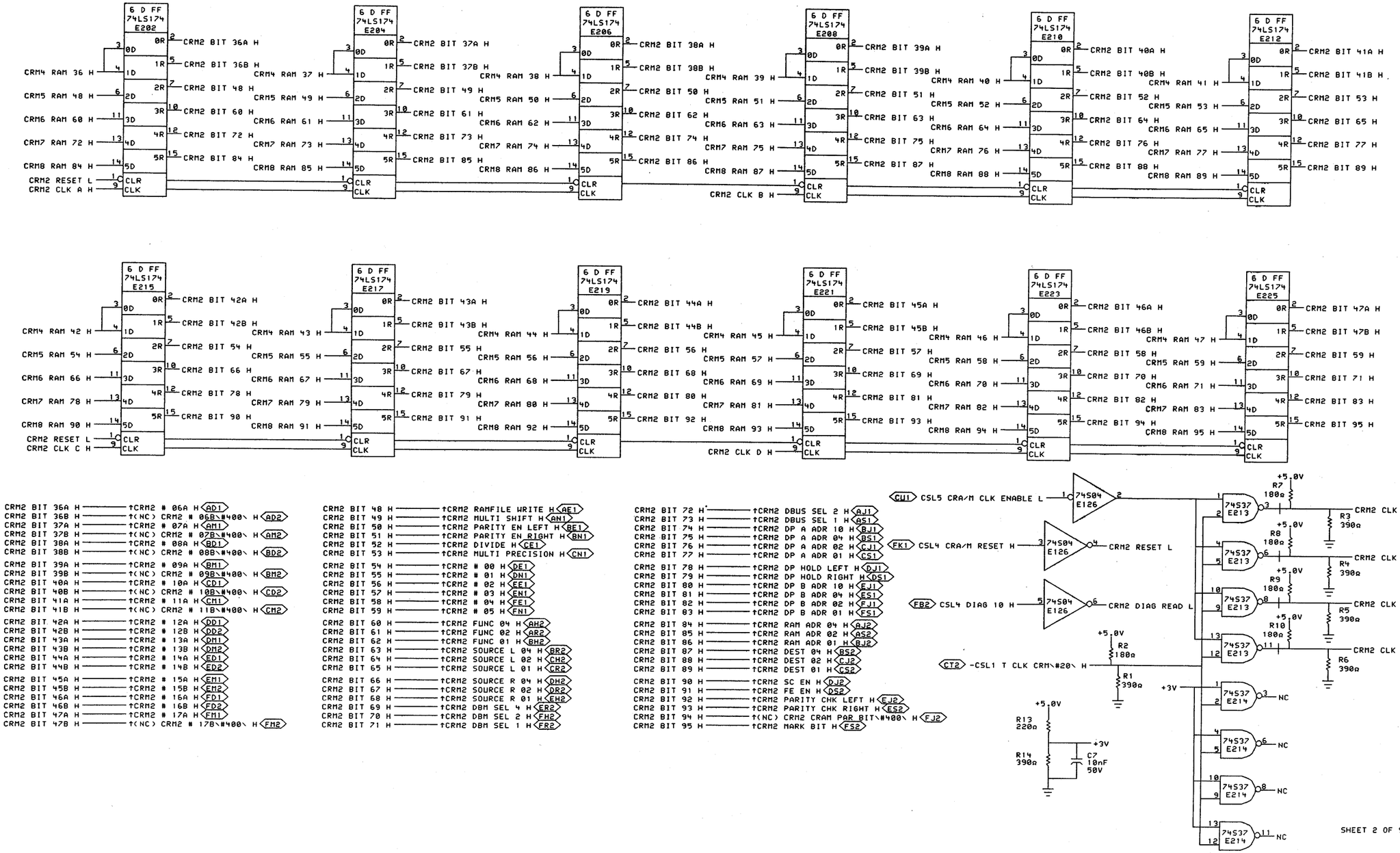
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. S. Toomey — DATE 05-APR-78 — ENG. — DATE
CHK'D. — DATE — BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM1.DRW[4,654] 03-APR-78 16:46 — NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM ADDRESS DRIVERS

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM1	A



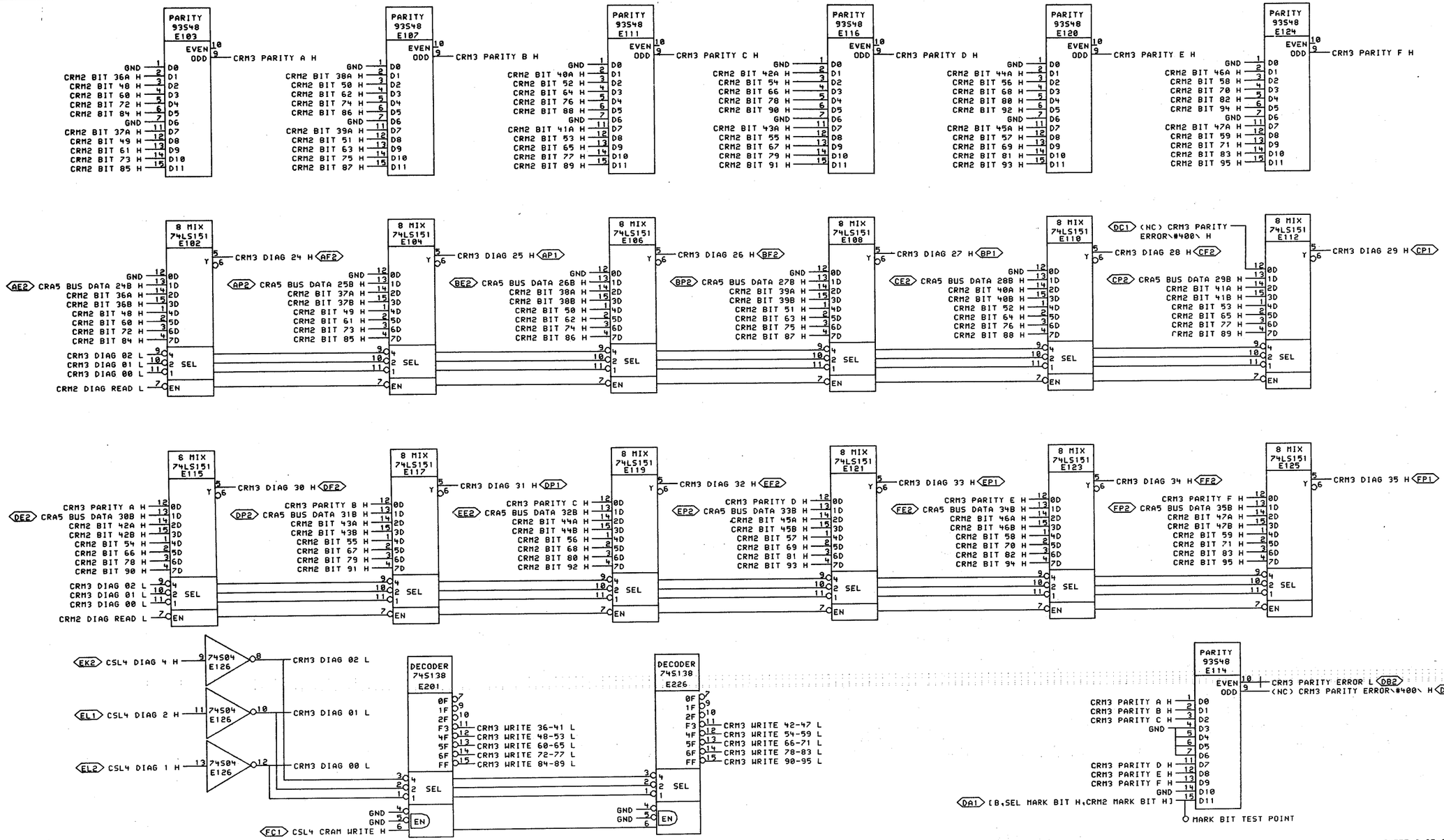
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN: S. Toomey	DATE 28-MAR-78	ENG. Donald Seume 125% DATE 29MAR78
	CHK'D: [illegible]	DATE 5/24/78	BOARD LOCATION: 1AF11
CRM2.DRW[4,654]	28-MAR-78 22:19	NEXT HIGHER ASSEMBLY:	SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8623-0	

TITLE: CONTROL RAM OUTPUT REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM2	A



SHEET 3 OF 9

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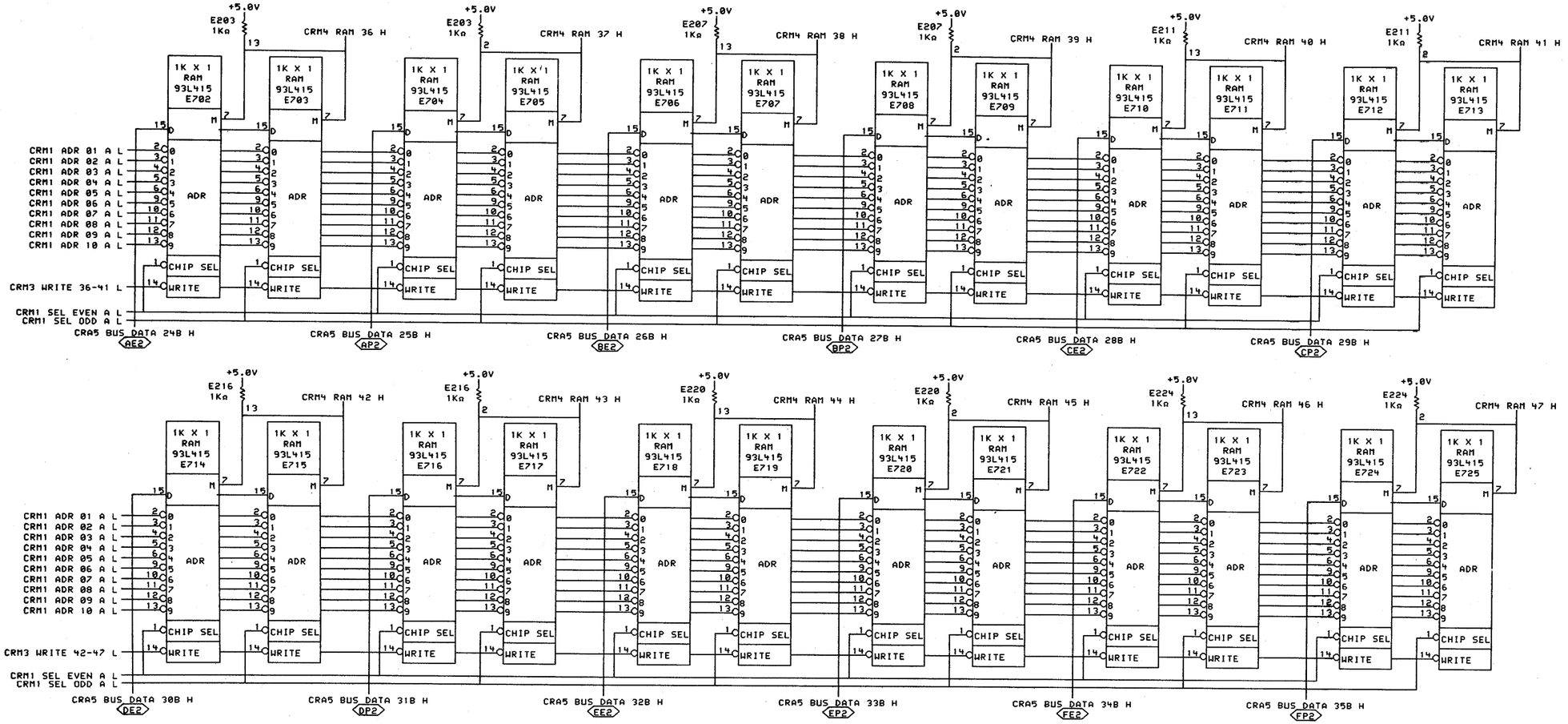
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN D.Toomey 13-MAR-78
CHK W.Stephenson 3/13/78
ENG. [illegible] DATE 23MAR78
BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM3.DRW[4,654] 13-MAR-78 12:17
NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM PAR & DIAG

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM3	A



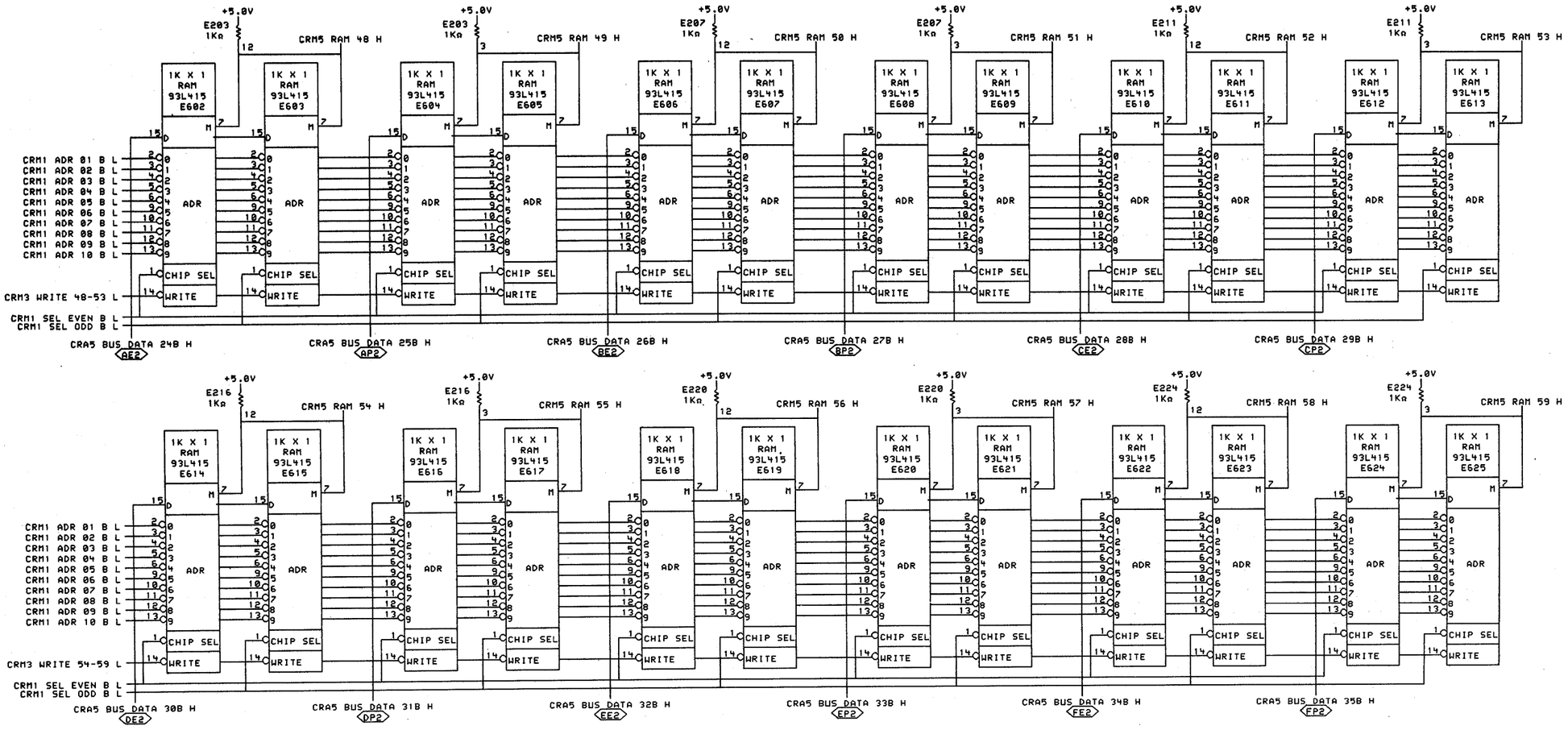
SHEET 4 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. Toomey	DATE 13-MAR-78	ENG. Gerald Lawrence	DATE 29 MAR 78	TITLE:	CONTROL RAM RAMS 36-47
CHK'D. Stephenson	DATE 3/31/78	BOARD LOCATION: 1AF11			
CRM4.DRW[4,654]	18-MAR-78 12:19	SHEET 1 OF 1			
FIRST USED ON OPTION/MODEL: KS10		NEXT HIGHER ASSEMBLY: B-DD-M8623-0		SIZE D / CODE CS / NUMBER M8623-0-CRM4 / REV. A	



SHEET 5 OF 9

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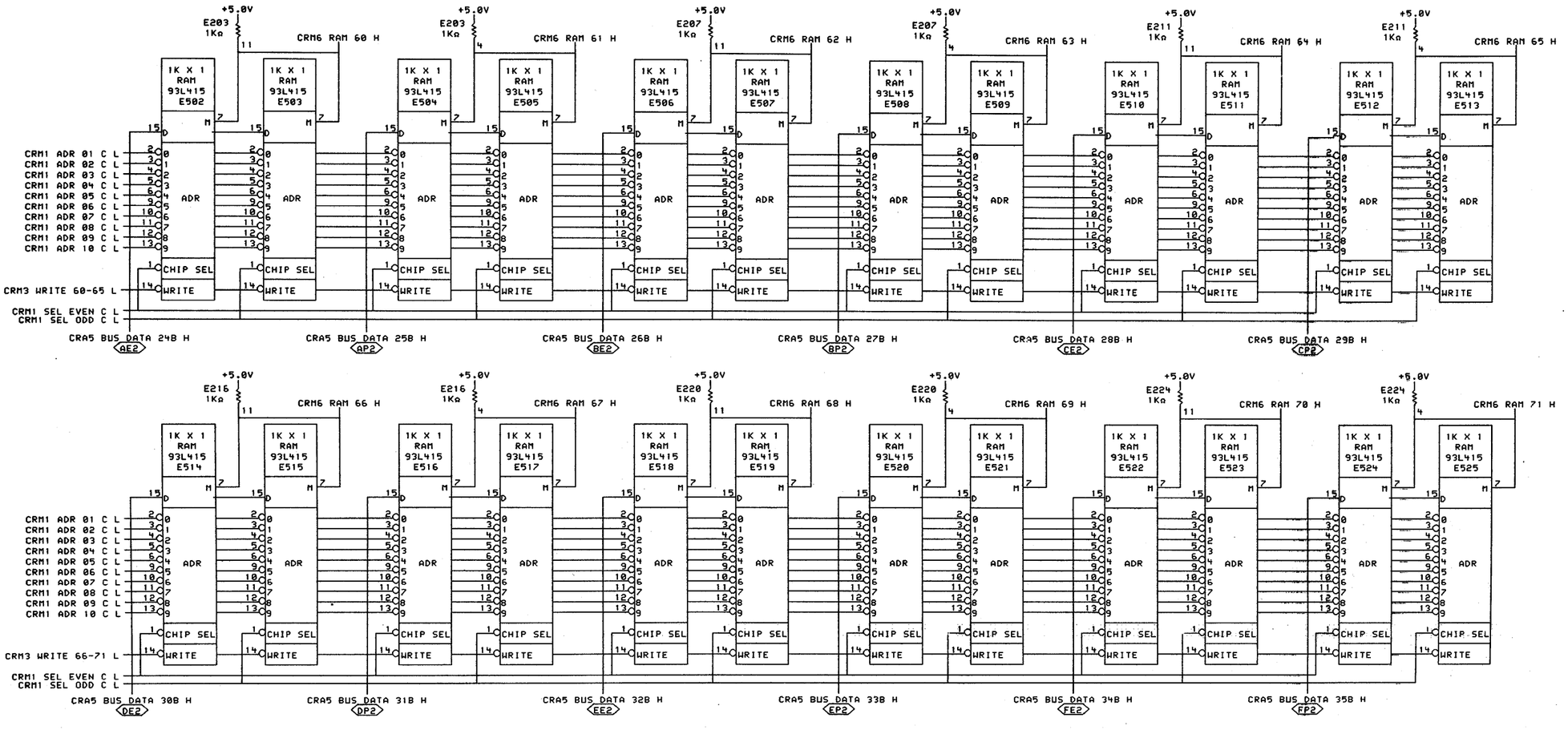
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN T.Toomey 13-MAR-78
CHK W.Stephenson 3/13/78
ENG. Donald Lawrence 3/21/78
BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM5.DRW[4,654] 13-MAR-78 12:20
NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM RAMS 48-59

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM5	A



SHEET 6 OF 9

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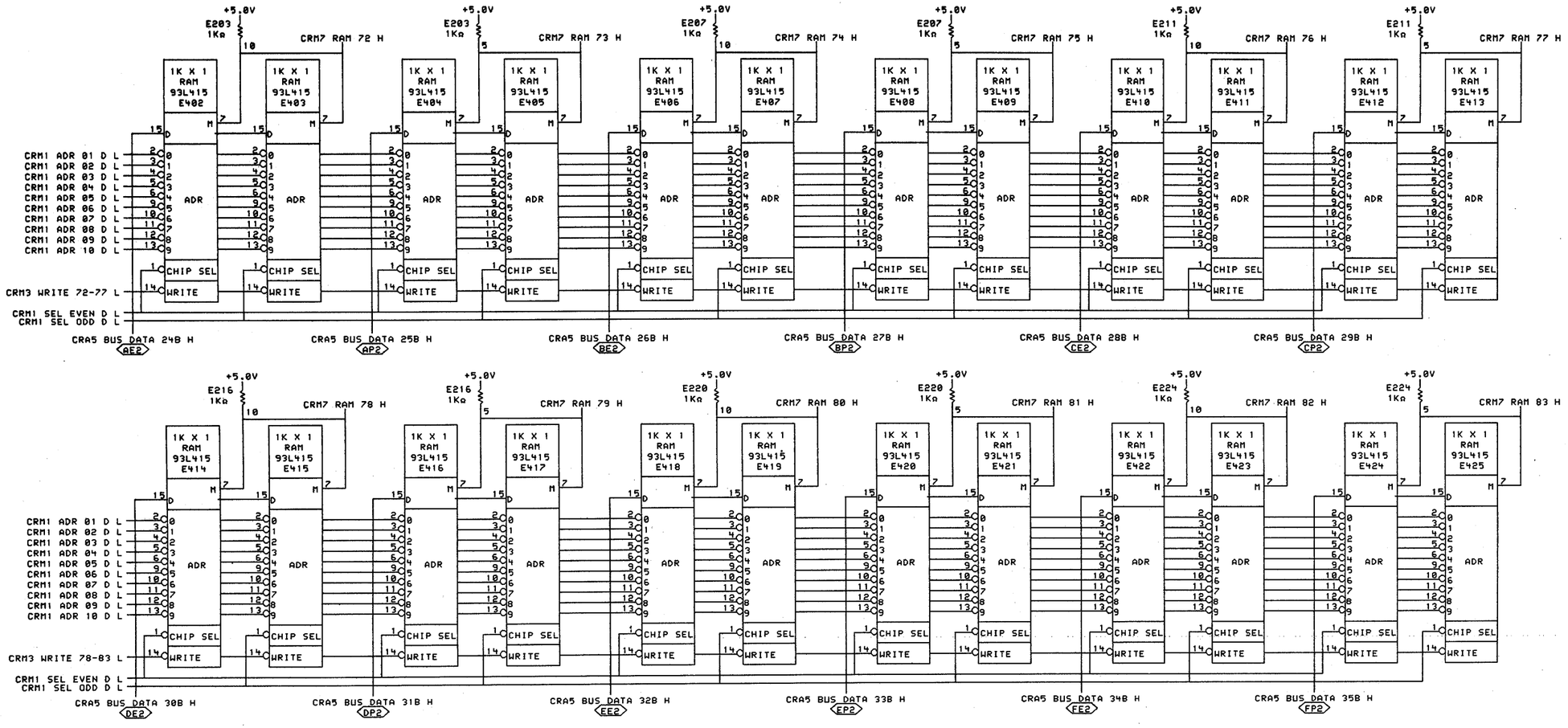
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. S. Toomey — DATE 13-MAR-78 — ENG. Donald Sawin 3/24/78 — DATE 23MAR78
CHK'D W. Stephens 3/3/78 — DATE — BOARD LOCATION: 1AF11
CRM6.DRW[4,654] 13-MAR-78 12:22 — SHEET 1 OF 1 — NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM RAMS 60-71

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM6	A



SHEET 7 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. T. Toomey 13-MAR-78
CHK'D. W. Patterson 3/13/78
ENG. Arnold Levine 13 MAR 78
BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM7.DRW[4,654] 13-MAR-78 12:23
NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM RAMS 72-83

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM7	A

SIZE D CODE CS NUMBER M8623-0-CRM7 REV. A

+5.0V
E203 1KΩ
CRM8 RAM 84 H
E302 E303
CRM8 RAM 85 H
E304 E305
CRM8 RAM 86 H
E306 E307
CRM8 RAM 87 H
E308 E309
E211 1KΩ
CRM8 RAM 88 H
E310 E311
CRM8 RAM 89 H
E312 E313

1K X 1 RAM 93L415

CRM1 ADR 01 E L
CRM1 ADR 02 E L
CRM1 ADR 03 E L
CRM1 ADR 04 E L
CRM1 ADR 05 E L
CRM1 ADR 06 E L
CRM1 ADR 07 E L
CRM1 ADR 08 E L
CRM1 ADR 09 E L
CRM1 ADR 10 E L
CRM3 WRITE 84-89 L
CRM1 SEL EVEN E L
CRM1 SEL ODD E L

ADR
CHIP SEL
WRITE

CRA5 BUS DATA 24B H (AE2)
CRA5 BUS DATA 25B H (AP2)
CRA5 BUS DATA 26B H (BE2)
CRA5 BUS DATA 27B H (BP2)
CRA5 BUS DATA 28B H (CE2)
CRA5 BUS DATA 29B H (CP2)

+5.0V
E216 1KΩ
CRM8 RAM 90 H
E314 E315
CRM8 RAM 91 H
E316 E317
CRM8 RAM 92 H
E318 E319
CRM8 RAM 93 H
E320 E321
E224 1KΩ
CRM8 RAM 94 H
E322 E323
CRM8 RAM 95 H
E324 E325

1K X 1 RAM 93L415

CRM1 ADR 01 E L
CRM1 ADR 02 E L
CRM1 ADR 03 E L
CRM1 ADR 04 E L
CRM1 ADR 05 E L
CRM1 ADR 06 E L
CRM1 ADR 07 E L
CRM1 ADR 08 E L
CRM1 ADR 09 E L
CRM1 ADR 10 E L
CRM3 WRITE 90-95 L
CRM1 SEL EVEN E L
CRM1 SEL ODD E L

ADR
CHIP SEL
WRITE

CRA5 BUS DATA 30B H (DE2)
CRA5 BUS DATA 31B H (DP2)
CRA5 BUS DATA 32B H (EE2)
CRA5 BUS DATA 33B H (EP2)
CRA5 BUS DATA 34B H (FE2)
CRA5 BUS DATA 35B H (FP2)

SHEET 8 OF 9

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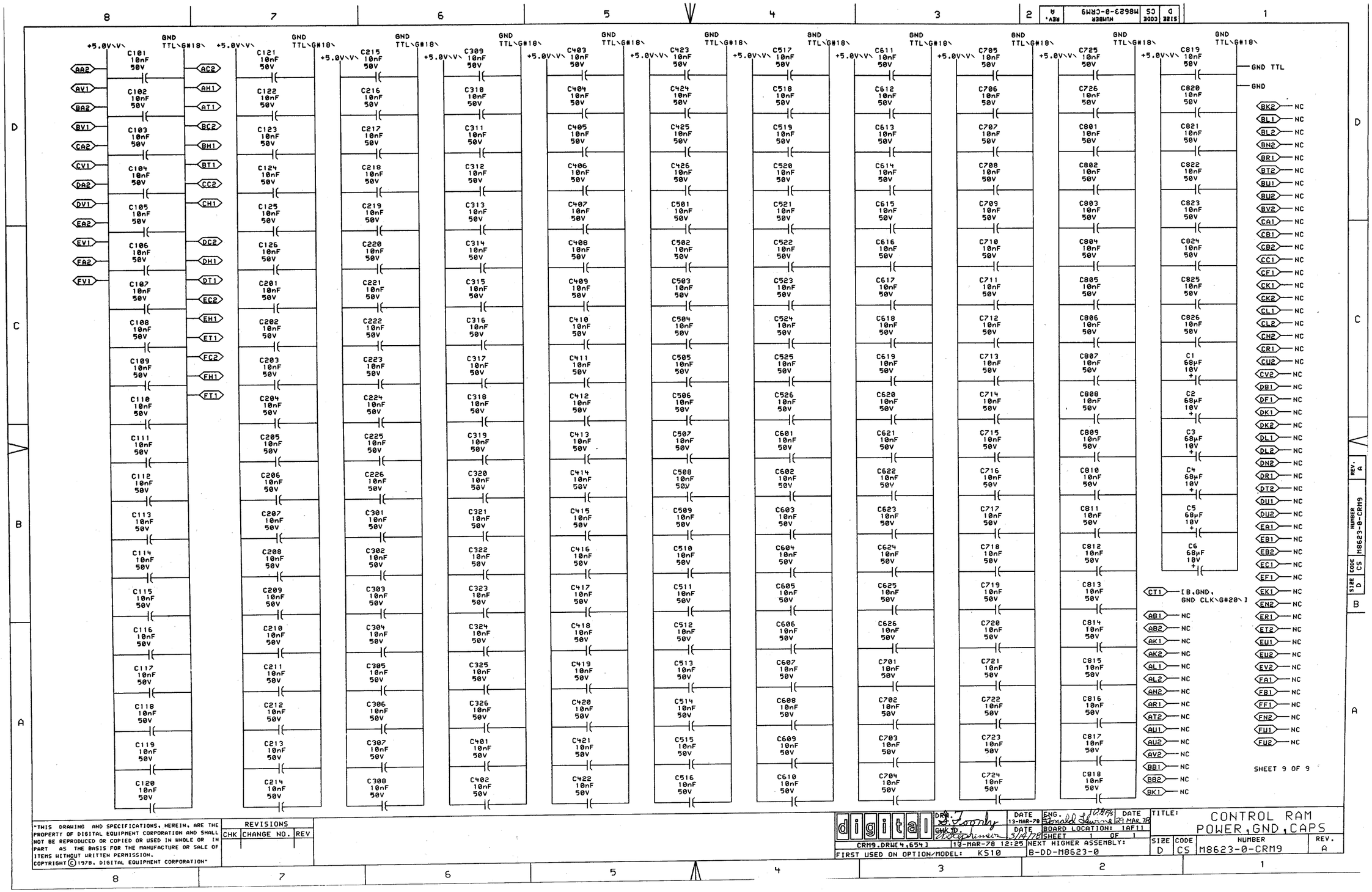
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. S. Toomey
CHK'D E. Stephenson
DATE 13-MAR-78
ENG. Daniel Devine
DATE 29-MAR-78
DATE 3/31/78
BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM8.DRW[4,654] 13-MAR-78 12:24
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-DD-M8623-0

TITLE: CONTROL RAM RAMS 84-95

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM8	A



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. S. Toomey — DATE 13-MAR-78
CHK. [illegible] — DATE 5/16/78
ENG. [illegible] — DATE 21 MAR 78
BOARD LOCATION: 1AF11
SHEET 1 OF 1
CRM9.DRW[4,654] 13-MAR-78 12:25
NEXT HIGHER ASSEMBLY: B-DD-M8623-0
FIRST USED ON OPTION/MODEL: KS10

TITLE: CONTROL RAM POWER,GND,CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8623-0-CRM9	A

SIZE	CODE	NUMBER	REV.
B	DD	M8629-Ø	

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
E-UA-M8629-Ø-Ø	5		MOS MEMORY ARRAY	A
B-PL-M8629-Ø-Ø	2		MOS MEMORY ARRAY	A
D-CS-M8629-Ø-MMA1	1		MOS MEMORY ARRAY, ARRAY DRIVERS	-
D-CS-M8629-Ø-MMA2	1		MOS MEMORY ARRAY, ADDRESS BUFFERS	-
D-CS-M8629-Ø-MMA3	1		MOS MEMORY ARRAY, BITS 41-23A	-
D-CS-M8629-Ø-MMA4	1		MOS MEMORY ARRAY, BITS 41-23B	-
D-CS-M8629-Ø-MMA5	1		MOS MEMORY ARRAY, BITS 21-ØIA	-
D-CS-M8629-Ø-MMA6	1		MOS MEMORY ARRAY, BITS 21-ØIB	-
D-CS-M8629-Ø-MMA7	1		MOS MEMORY ARRAY, BITS 42-22A	-
D-CS-M8629-Ø-MMA8	1		MOS MEMORY ARRAY, BITS 42-22B	-
D-CS-M8629-Ø-MMA9	1		MOS MEMORY ARRAY, BITS 20-ØØA	-
D-CS-M8629-Ø-MMAA	1		MOS MEMORY ARRAY, BITS 20-ØØB	-
D-CS-M8629-Ø-MMAB	1		MOS MEMORY ARRAY, POWER	-
			GND, CAPS	
D-CS-M8629-Ø-MMAC	1		MOS MEMORY ARRAY, POWER	-
			GND, CAPS	
D-CS-M8629-Ø-MMAD	1		MOS MEMORY ARRAY, ARRARY +5V	
E-MD-5013064-0-0	5		DRILL & ETCH DRAWING	A
	-	5013064	ETCHED CIRCUIT BOARD	B
M8629-Ø-L	-		P.C. DESIGN DATA BASE	B
M8629-Ø-PL	-		INSERTION P/L DATA BASE	A
POO-M8629-ØØ			PROCESS SHEETS	REF

NOTES:

REVISIONS	REV.	CHG NO.	DATE
	X	ORIG	X

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digital

USED ON OPTION/MODEL	
KS1Ø	

DRN.	[illegible]	12 Sept 77
CHK'D	R.W Counter	14 Sept 77
ENG.	R Lacroix	30 Nov. 77
PROD.	[illegible]	30 Nov 77

TITLE: MOS MEMORY ARRAY

SIZE	CODE	NUMBER	REV.
B	DD	M8629-Ø	

SHEET 1 OF 1

DRB 126 EN-01149-16-N176(325)

COMPONENT SIDE VIEW

18(GT / 12)

17

20

16

0-8

0-7

0-6

0-5

SPARE

SPARE

ST2

ST1

F E D C B A

V U T S R P N M L K J H F E D C B A

SIGNATURES	DATE
DRN.	8-'83
CHK. DSGN.	8-'83
MFG. ENG.	8-'83
PROJ. ENG.	8-'83
PROD.	8-'83

digital

TITLE MOS MEMORY ARRAY

SIZE CODE E | CAGE NUMBER M.9629-0-0

SCALE 2/1 SHEET 1 OF 5

ETCH REV. B

P.C.A. DESIGN DATA DOC. REV. B

NEXT HIGHER ASSY. B - DD 9629-2

REV A

CHG CHANGE NO MAY

NOTES:

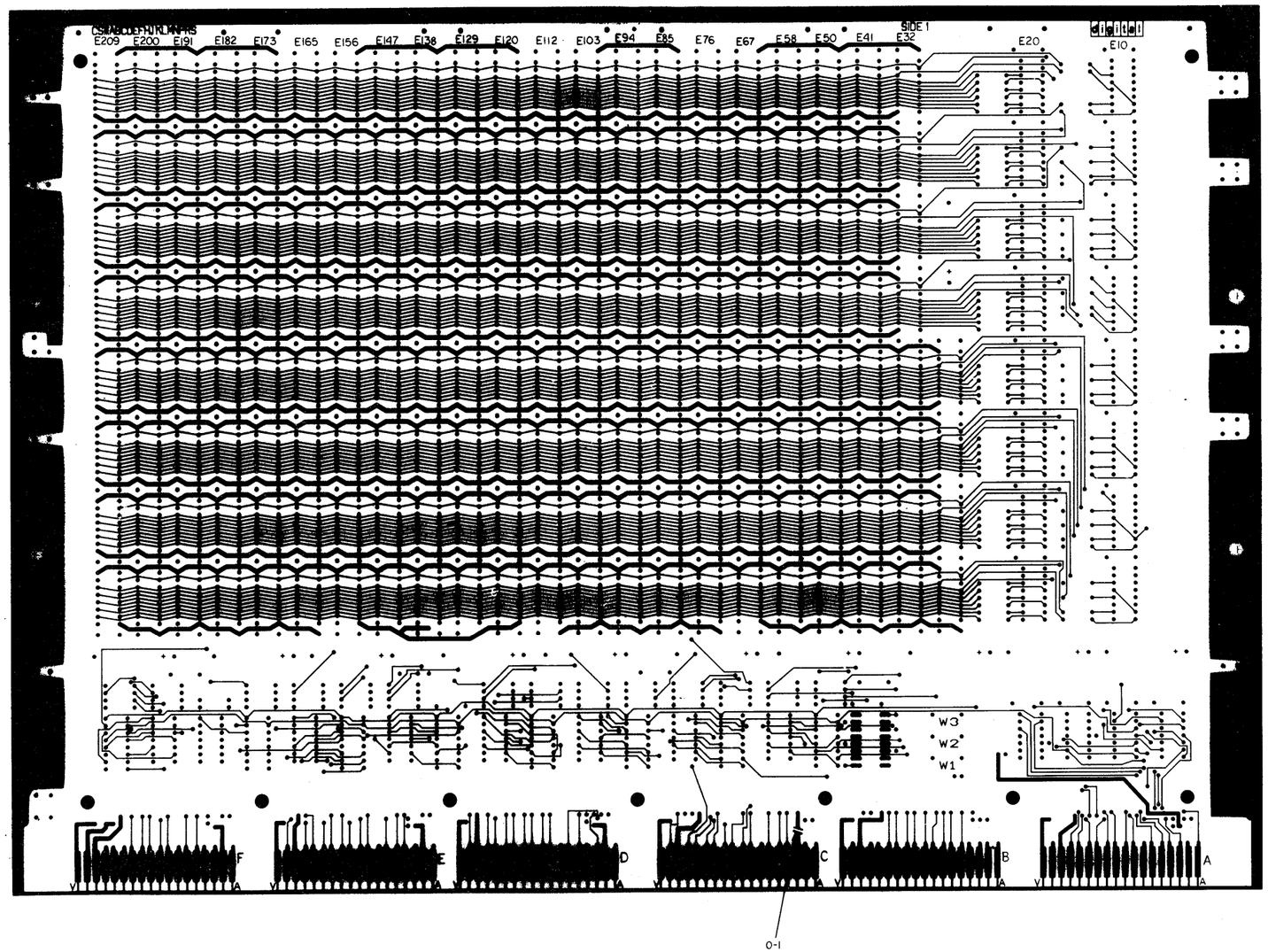
E | LA | M9629-1-0 | A

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L1

LAYER 1

M8629 5013064B



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
MOS MEMORY ARRAY	E	UA	M8629-Ø-Ø	A
SCALE 2/1	SHEET 2 OF *		DIST	

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LAYER 4

L4

MS10 MEMORY ARRAY M8629 5013064B
SIDE 2

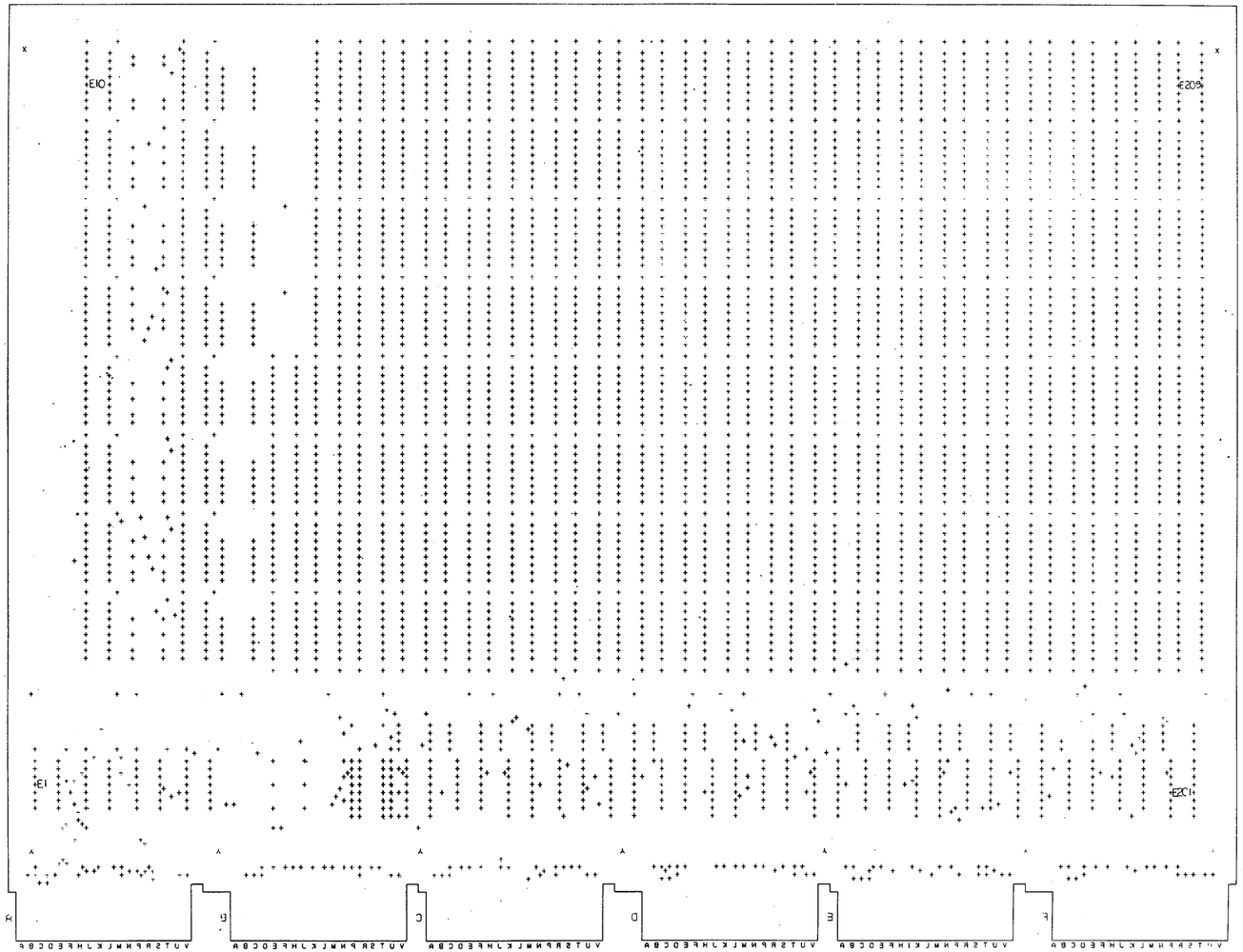
E10 E20 E32 E41 E50 E58 E67 E76 E85 E94 E103 E112 E120 E129 E138 E147 E156 E165 E173 E182 E191 E200 E209

0-2 0-3 0-4

A B C D F E

TITLE	SIZE	CODE	NUMBER	REV.
MOS MEMORY ARRAY	E	UA	M8629-0-0	A
SCALE 2/1 SHEET 3 OF 5	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	*NUMBER	REV.
MOS MEMORY ARRAY	E	UA	M6629-0-0	A
SCALE 2/1 SHEET 4 OF 5	DIST.			

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REWORK INSTRUCTION

FIRST RELEASE

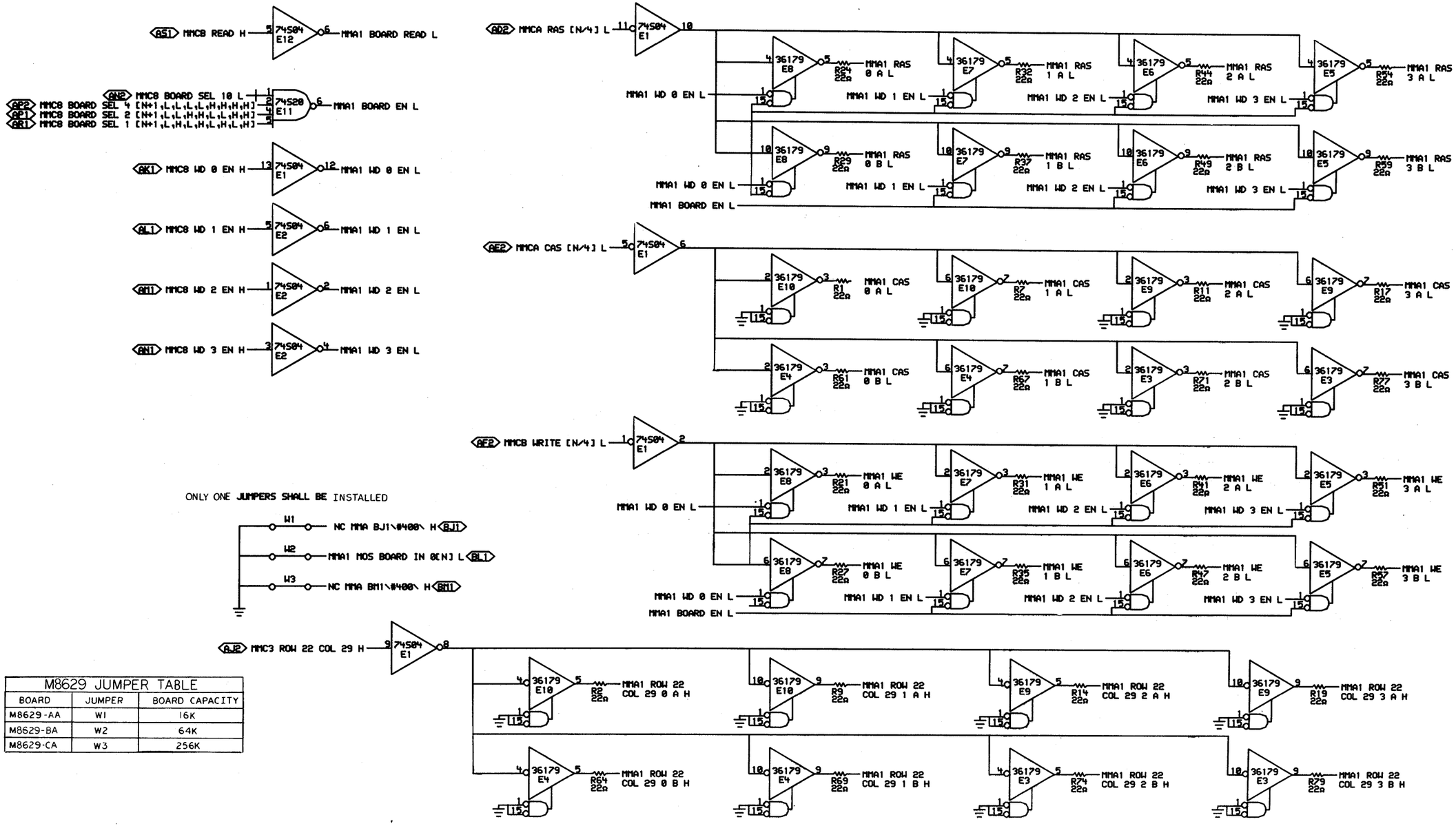
ETCH CUTS SIDE 1 (AS SHOWN)
O-1 AT CC1

ETCH CUTS SIDE 2 (AS SHOWN)
O-2 ON ETCH ABOVE R81
O-3 AT LEFT SIDE OF R82
O-4 ON ETCH ABOVE R84

WIRE ADD SIDE 1 (AS SHOWN)
O-5 FROM C24 TO R81
O-6 FROM C35 TO R82
O-7 FROM E131(9) TO R83
O-8 FROM C57 TO R84

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MOS MEMORY ARRAY	E	UA	M8629-Ø-Ø	A
SCALE —	SHEET 5 OF 5	DIST.		



M8629 JUMPER TABLE		
BOARD	JUMPER	BOARD CAPACITY
M8629-AA	W1	16K
M8629-BA	W2	64K
M8629-CA	W3	256K

SHEET 1 OF 13

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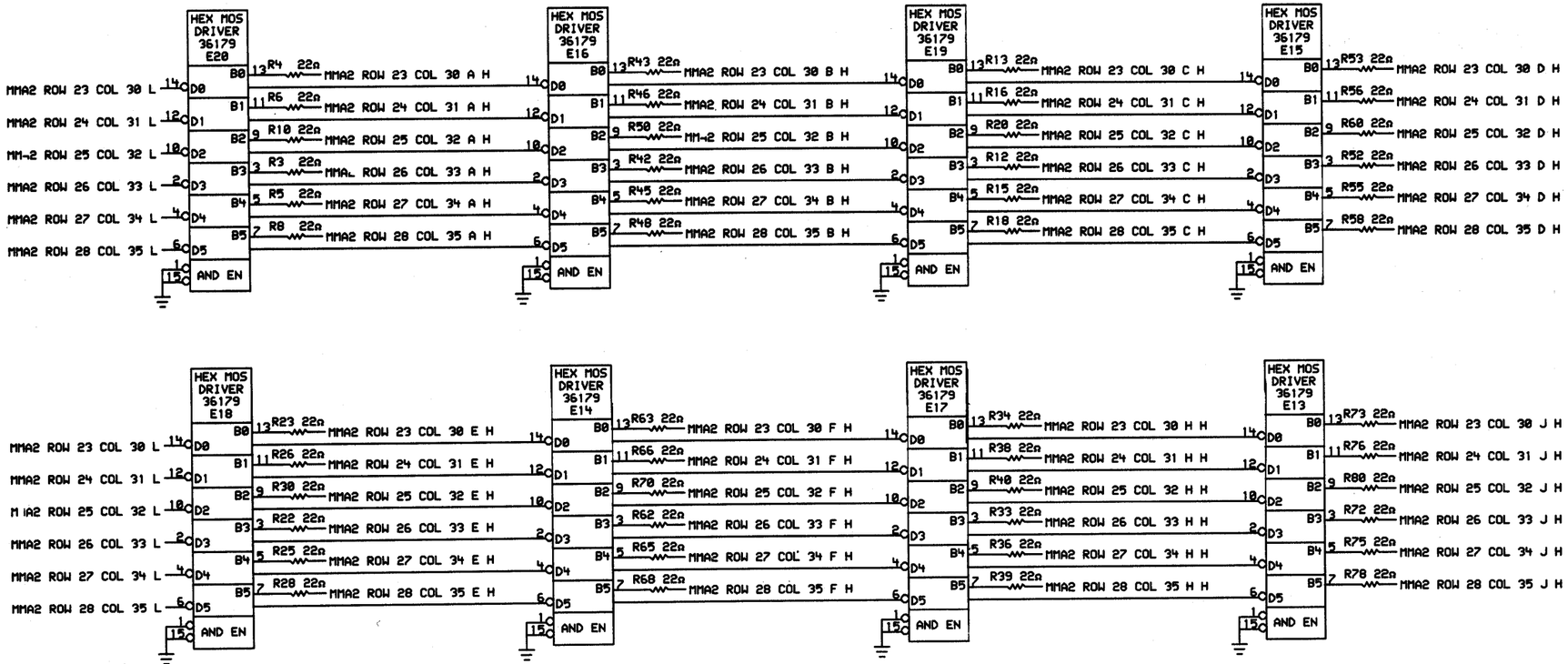
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. [illegible] DATE 09-NOV-77
CHK D. [illegible] DATE
ENG. DATE
BOARD LOCATION:
SHEET 1 OF 1
MMA1.DRW[4,655] 09-NOV-77 14:37
FIRST USED ON OPTION/MODEL: KS10
NEXT HIGHER ASSEMBLY: B-DD-M8629-0

TITLE: MOS MEMORY ARRAY ARRAY DRIVERS

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA1	



SHEET 2 OF 13

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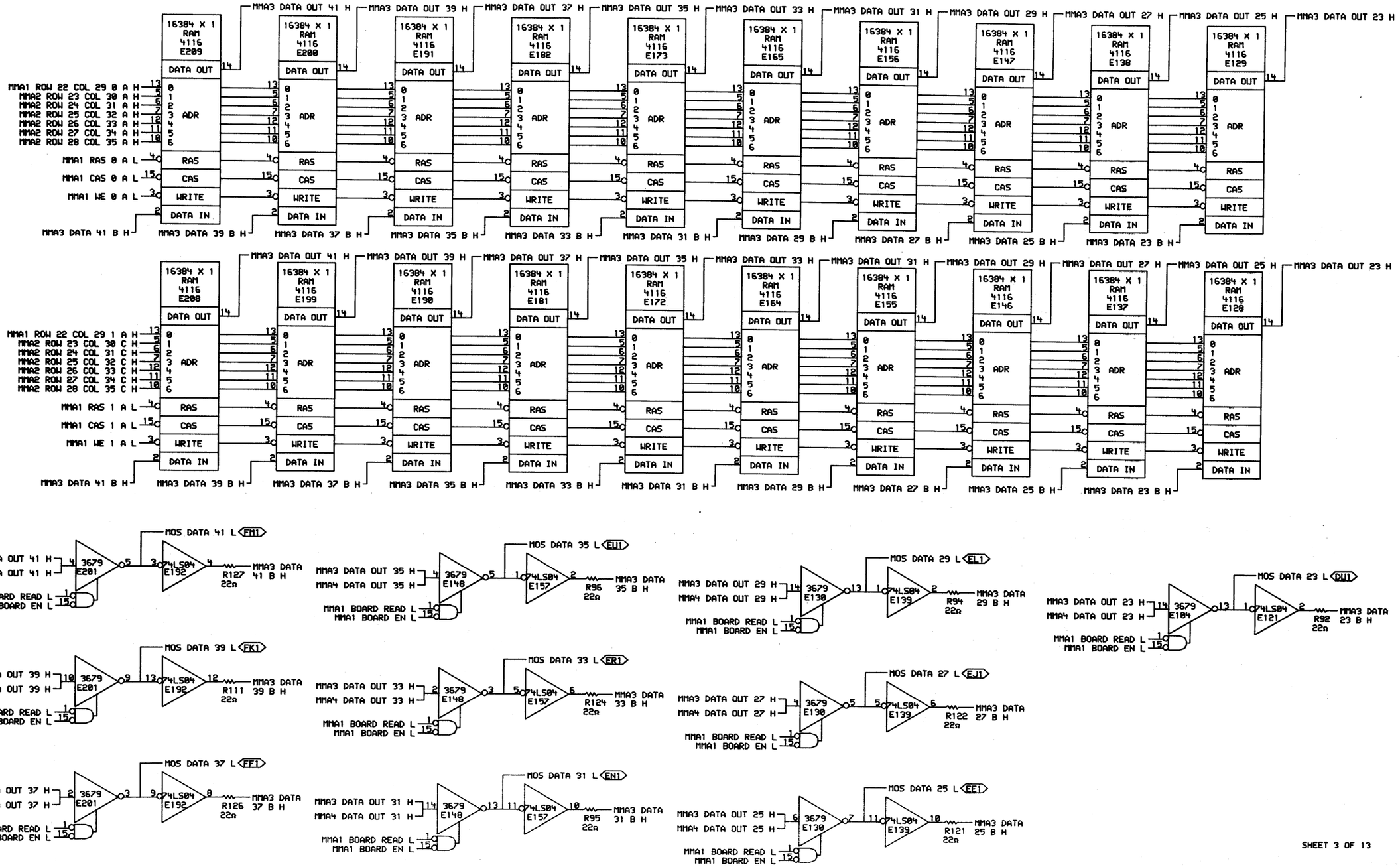
REVISIONS			
CHK	CHANGE NO.	REV.	

digital

DRN. S.Toomby DATE 09-NOV-77 ENG. DATE
CHK'D. DATE BOARD LOCATION:
SHEET OF
MMA2.DRW[4,655] 09-NOV-77 14:40 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8629-0

TITLE: MOS MEMORY ARRAY ADDRESS BUFFERS

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA2	



SHEET 3 OF 13

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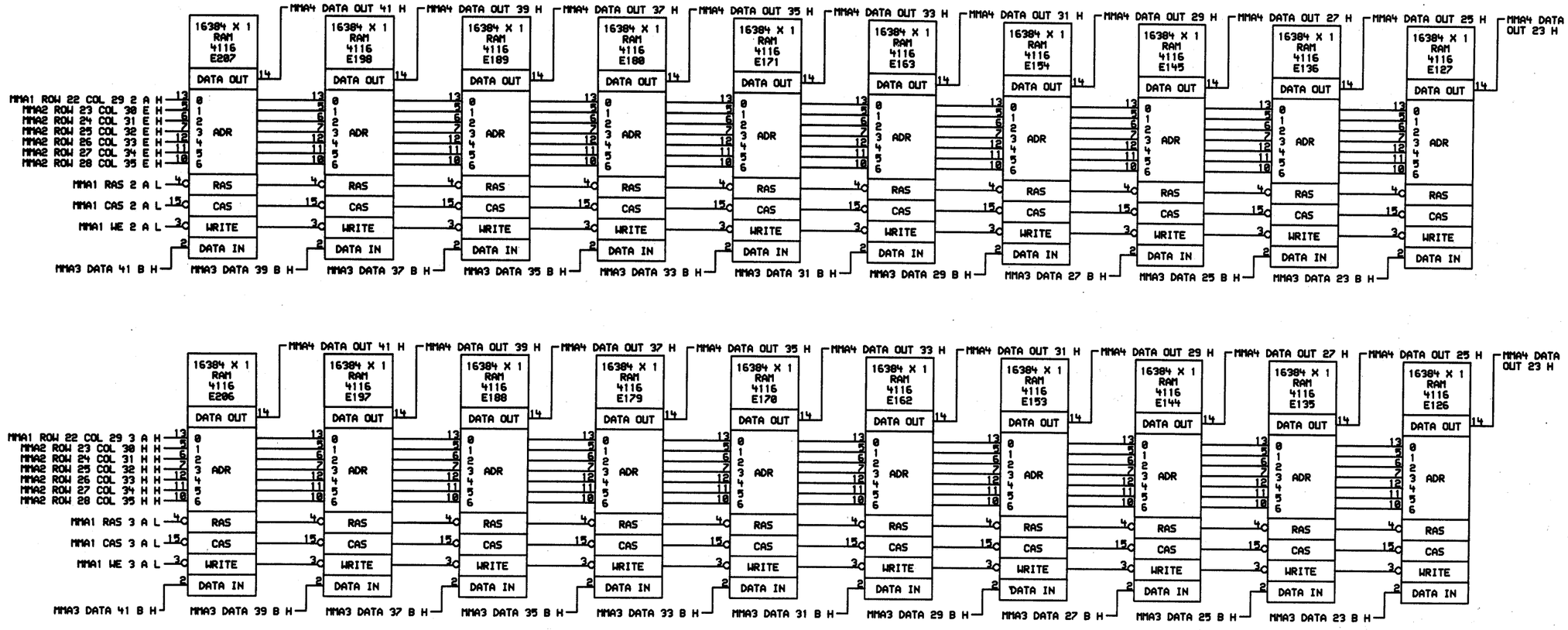
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRW. S. Toomey 21-NOV-77 | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION: | SHEET 1 OF 1
MMA3.DRW[4,655] 18-NOV-77 15:59 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8629-0

TITLE: MOS MEMORY ARRAY BITS 41-23 A

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA3	



SHEET 4 OF 13

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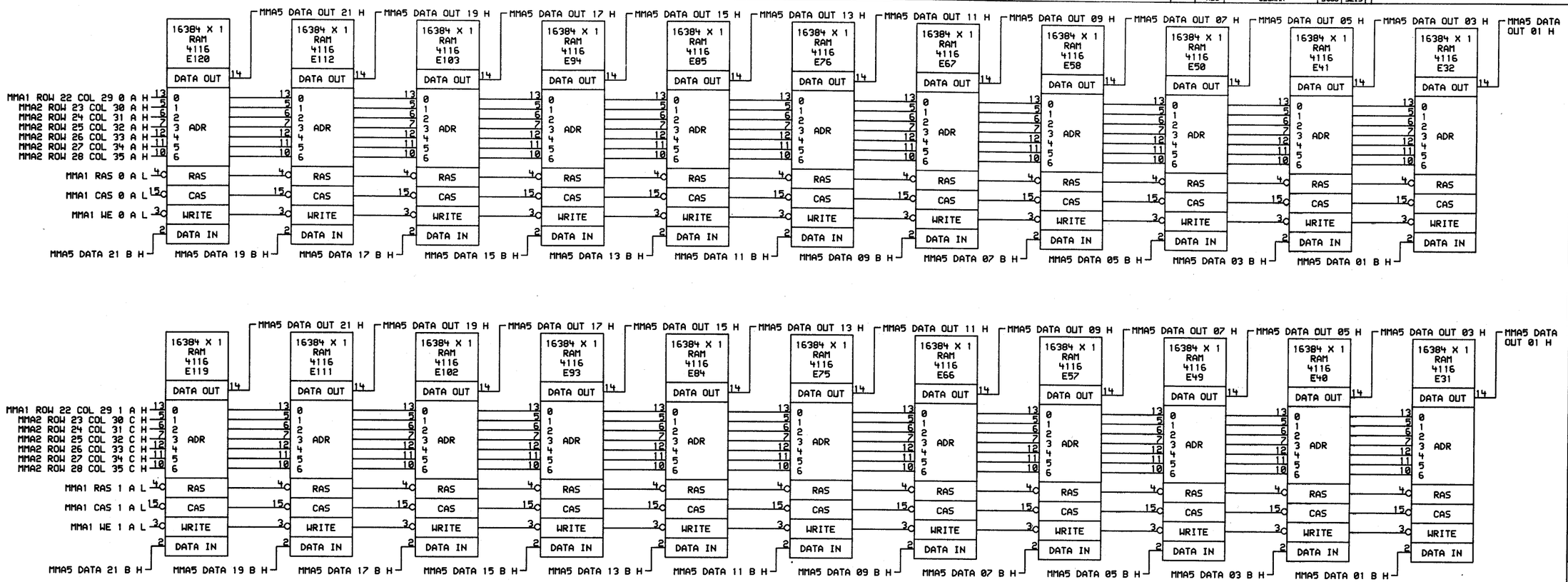
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. L. Landy DATE 28-NOV-77
CHK D. DATE
ENG. DATE
BOARD LOCATION:
SHEET 1 OF 1
MMA4.DRW[4,655] 09-NOV-77 14:46
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8629-0

TITLE: MOS MEMORY ARRAY BITS 41-23 B

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA4	



SHEET 5 OF 13

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REVISIONS

CHK	CHANGE NO.	REV.

digital

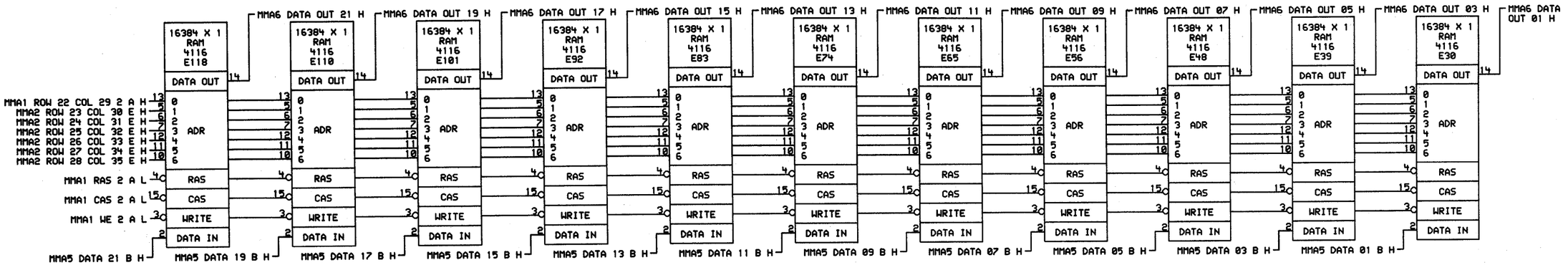
DRN. B. Toomey DATE 22-NOV-77 | ENG. | DATE | CHK'D. | DATE | BOARD LOCATION: | SHEET 1 OF 1

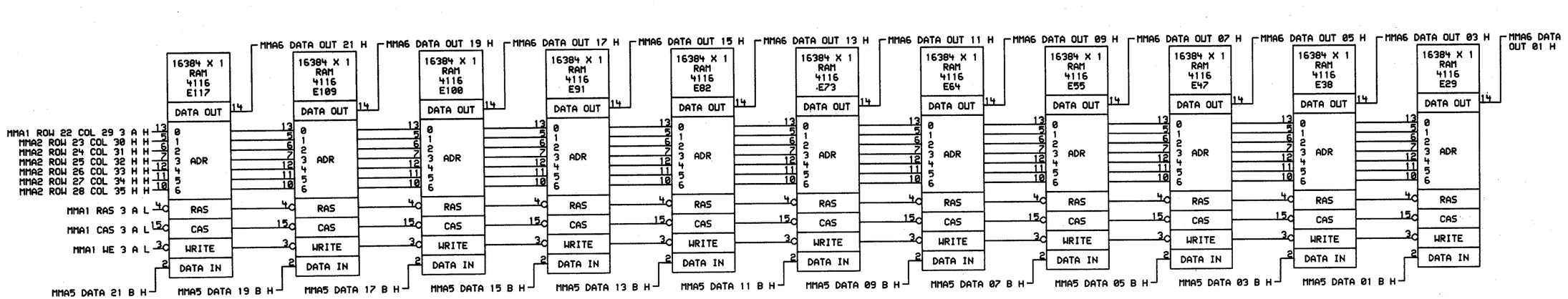
MMA5.DRW[4,655] 09-NOV-77 14:48 | NEXT HIGHER ASSEMBLY: B-CD-M8629-0

FIRST USED ON OPTION/MODEL: KS10

TITLE: MOS MEMORY ARRAY BITS 21-01 A

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA5	





SHEET 6 OF 13

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REVISIONS		
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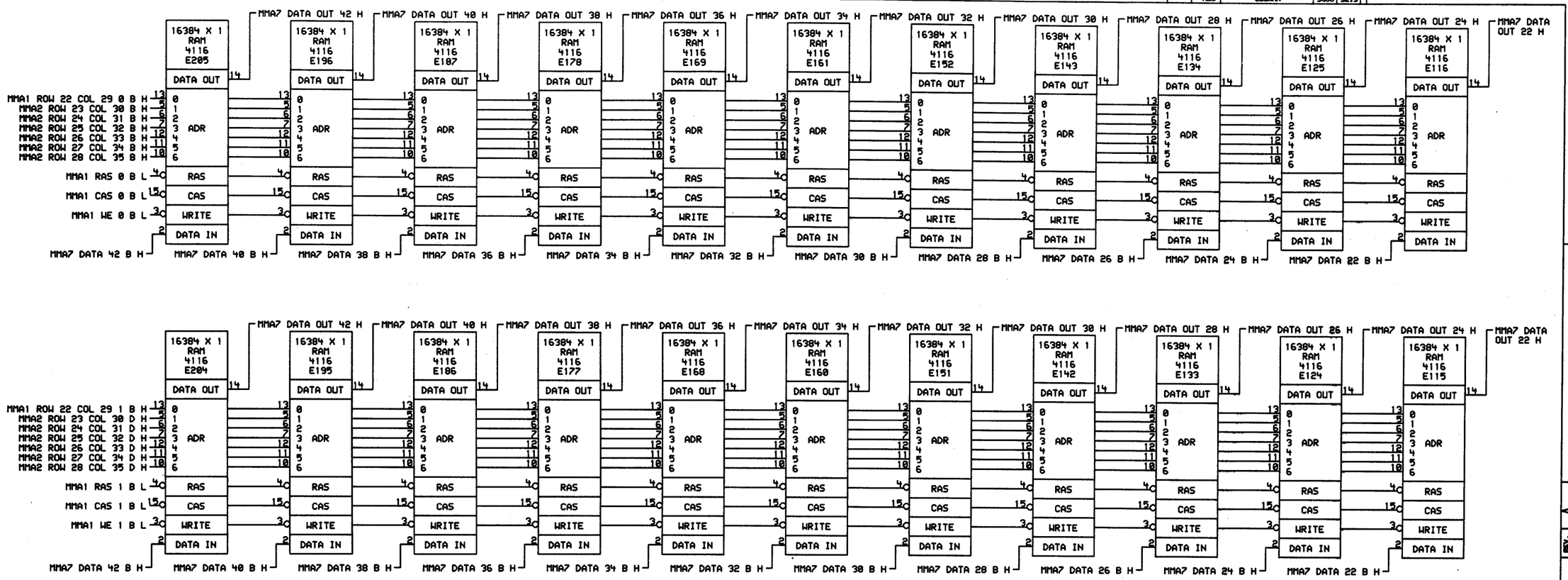
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DRN. L. Loomby DATE 21-NOV-77 ENG. DATE
CHK D. DATE BOARD LOCATION:
SHEET 1 OF 1
MMA6.DRW[4,655] 09-NOV-77 14:49 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 B-DD-M8629-0

TITLE: MOS MEMORY ARRAY BITS 21-01 B

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA6	

SIZE D | CODE CS | NUMBER M8629-0-MMA6 | REV.



SHEET 7 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. B. Landry DATE 21-NOV-77 ENG. DATE CHK'D. DATE

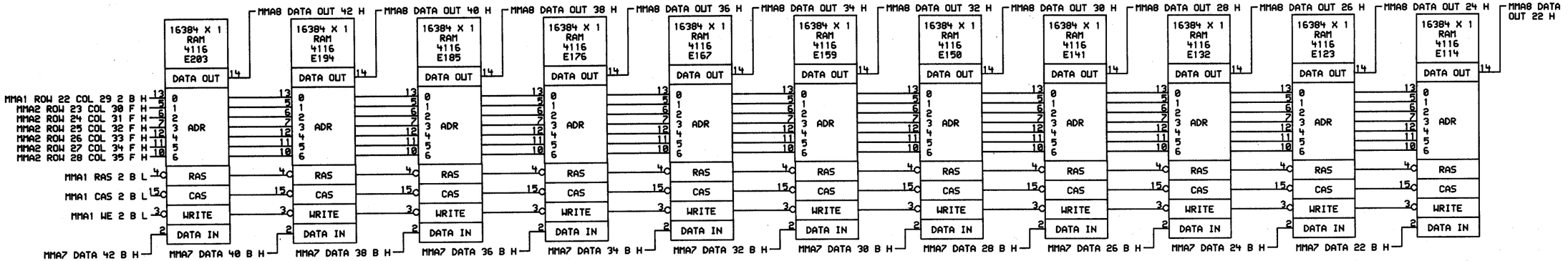
BOARD LOCATION: SHEET 1 OF 1

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FIRST USED ON OPTION/MODEL: KS10

TITLE: MOS MEMORY ARRAY BITS 42-22 A

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA7	



SHEET 8 OF 13

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REVISIONS		
CHK	CHANGE NO.	REV
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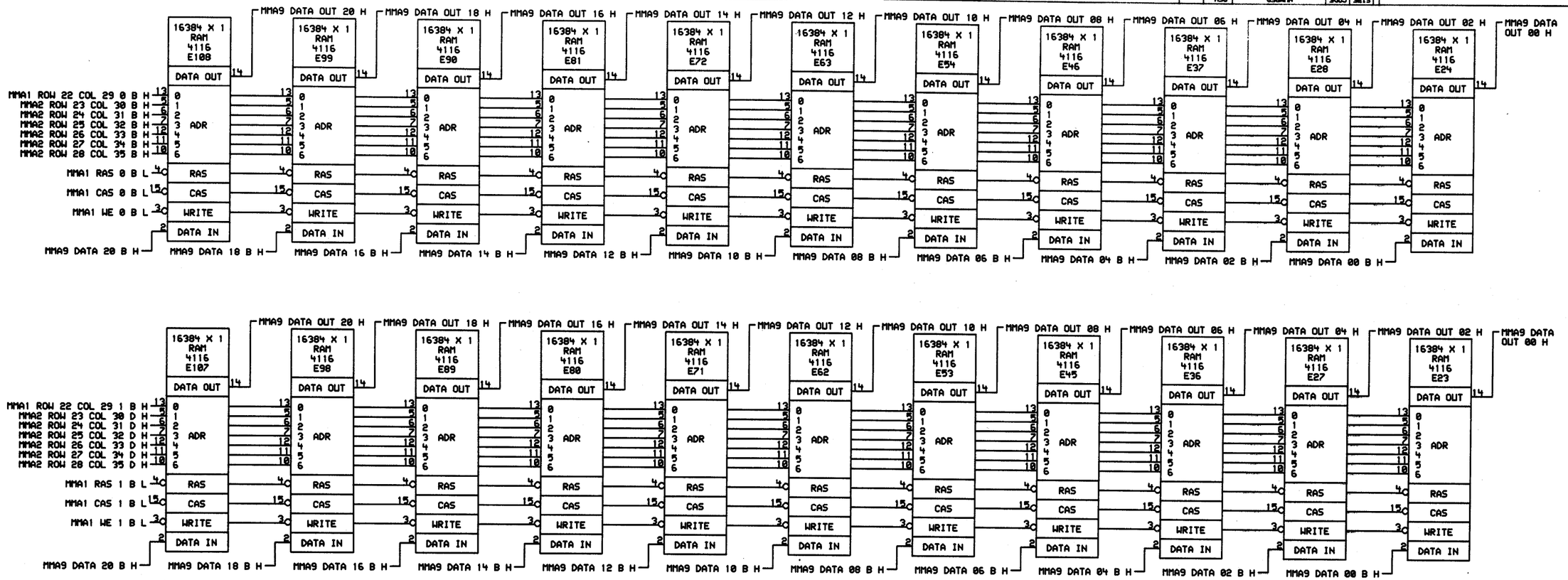
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DRN S.Toomey 09-NOV-77 | ENG. | DATE
CHK D. | DATE | BOARD LOCATION:
SHEET 1 OF 1
MMA8.DRW[4,655] 09-NOV-77 14:52 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10 | B-DD-M8629-0

TITLE: MOS MEMORY ARRAY BITS 42-22 B

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMA8	

SIZE D | CODE CS | NUMBER M8629-0-MMA8 | REV.



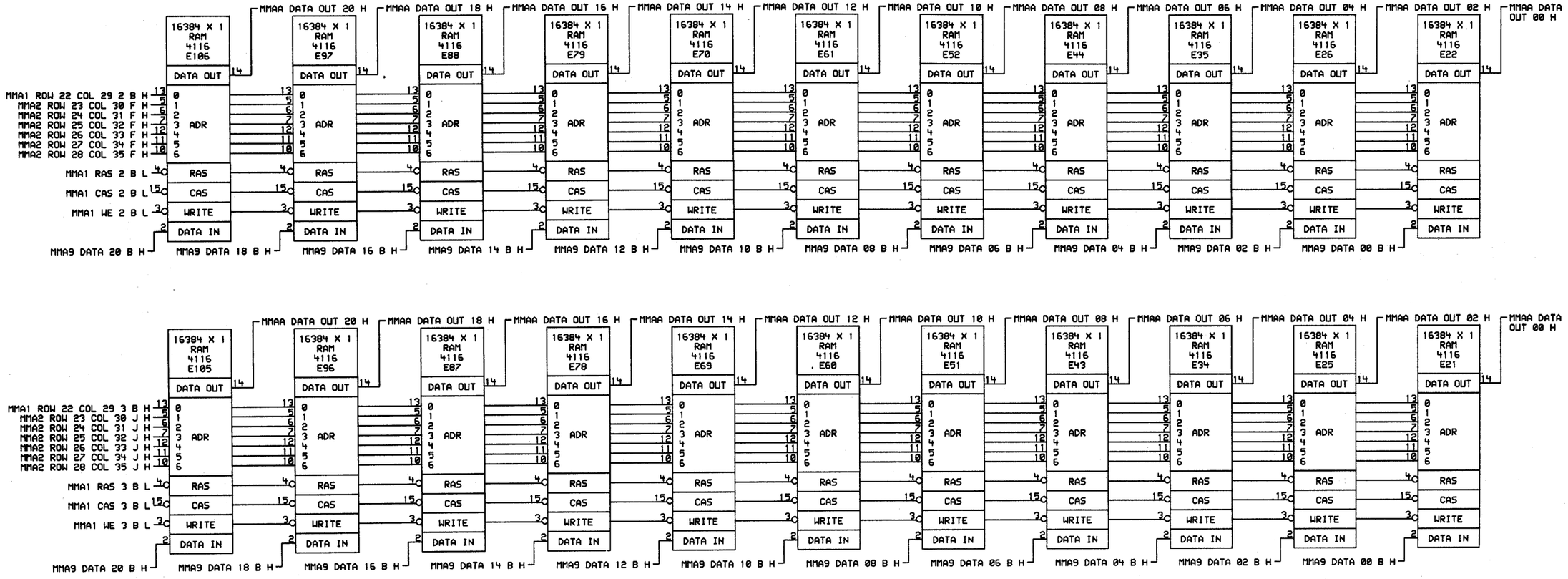
SHEET 9 OF 13

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REVISIONS

CHK	CHANGE NO.	REV.

digital	DRN. L Toomby	DATE 21-NOV-77	ENG.	DATE	TITLE: MOS MEMORY ARRAY BITS 20-00 A
	CHK'D.	DATE	BOARD LOCATION: SHEET OF		
MMA9.DRW[4,655]	09-NOV-77 14:54	NEXT HIGHER ASSEMBLY:			SIZE D CODE CS NUMBER M8629-0-MMA9 REV.
FIRST USED ON OPTION/MODEL: KS10		B-DD-M8629-0			



SHEET 10 OF 13

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REVISIONS

CHK	CHANGE NO.	REV.

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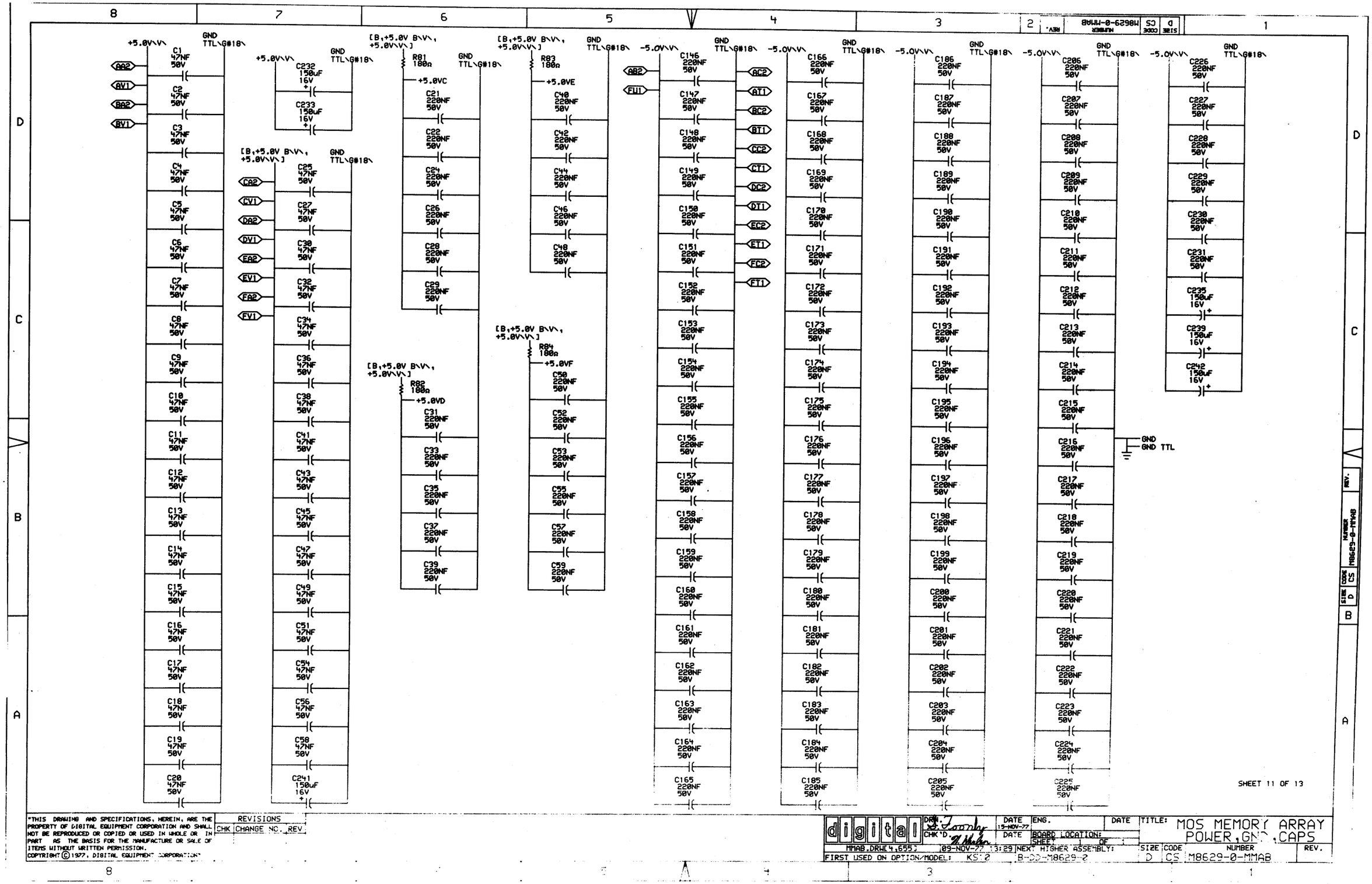
DRN. S.Toomey DATE 22-NOV-77 | ENG. | DATE | TITLE: MOS MEMORY ARRAY BITS 20-00 B

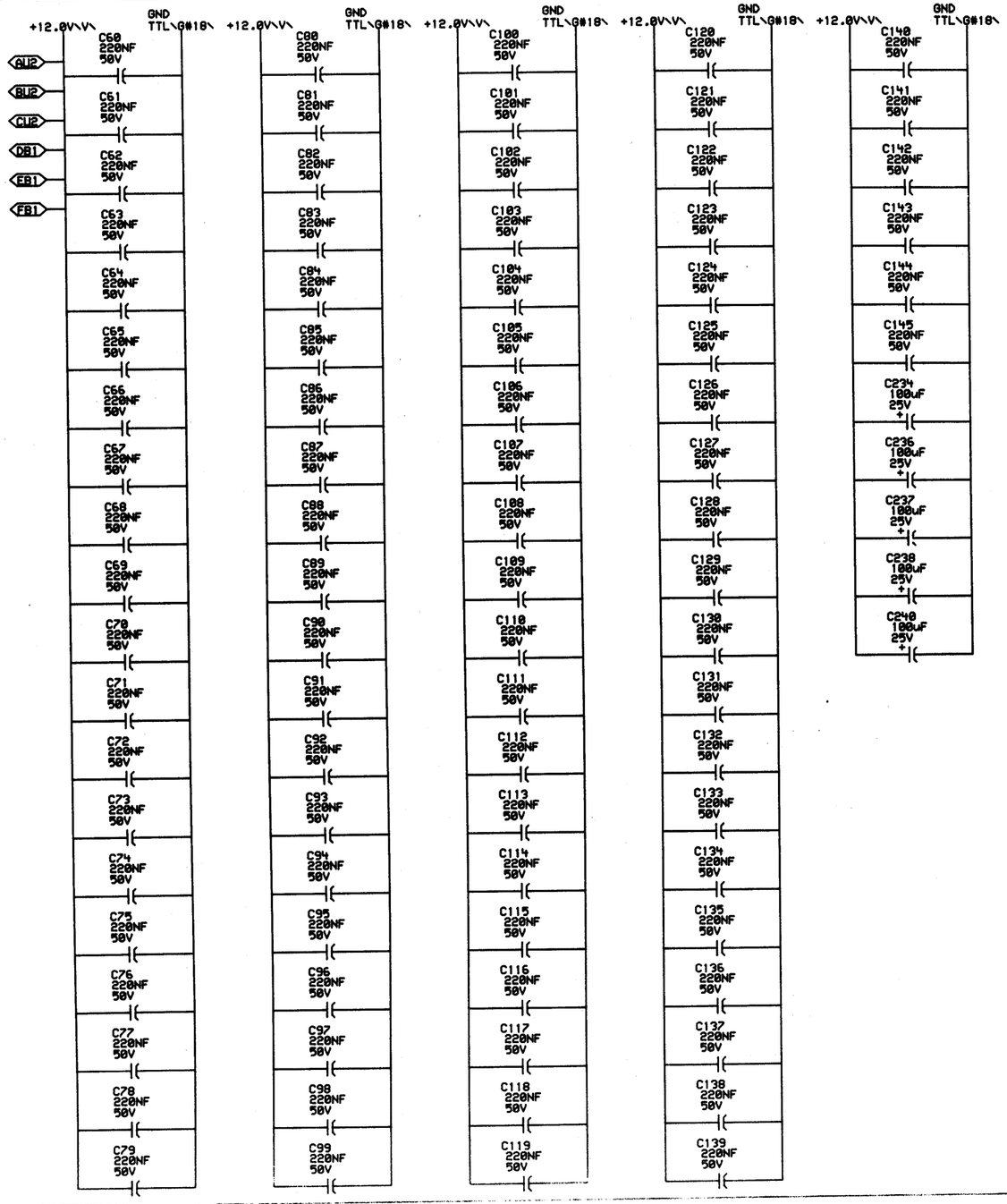
CHK'D. | DATE | BOARD LOCATION: | SHEET 1 OF 1

MMAA.DRW[4,655] 03-NOV-77 14:55 | NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: KS10 | B-CO-M8629-0

SIZE D | CODE CS | NUMBER M8629-0-MMAA | REV.


+5.0V\V\
GND
TTL\G#18\
AA2
AV1
BA2
BV1
C1 47NF 50V
C2 47NF 50V
C3 47NF 50V
C4 47NF 50V
C5 47NF 50V
C6 47NF 50V
C7 47NF 50V
C8 47NF 50V
C9 47NF 50V
C10 47NF 50V
C11 47NF 50V
C12 47NF 50V
C13 47NF 50V
C14 47NF 50V
C15 47NF 50V
C16 47NF 50V
C17 47NF 50V
C18 47NF 50V
C19 47NF 50V
C20 47NF 50V
C232 150uF 16V
C233 150uF 16V
[B,+5.0V B\V\, +5.0V\V\]
CA2
CV1
DA2
DV1
EA2
EV1
FA2
FV1
C25 47NF 50V
C27 47NF 50V
C30 47NF 50V
C32 47NF 50V
C34 47NF 50V
C36 47NF 50V
C38 47NF 50V
C41 47NF 50V
C43 47NF 50V
C45 47NF 50V
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C49 47NF 50V
C51 47NF 50V
C54 47NF 50V
C56 47NF 50V
C58 47NF 50V
C241 150uF 16V
R81 180Ω
+5.0VC
C21 220NF 50V
C22 220NF 50V
C24 220NF 50V
C26 220NF 50V
C28 220NF 50V
C29 220NF 50V
R82 180Ω
+5.0VD
C31 220NF 50V
C33 220NF 50V
C35 220NF 50V
C37 220NF 50V
C39 220NF 50V
R83 180Ω
+5.0VE
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C44 220NF 50V
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R84 180Ω
+5.0VF
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C55 220NF 50V
C57 220NF 50V
C59 220NF 50V
-5.0V\V\
AB2
FU1
AC2
AT1
BC2
BT1
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CT1
DC2
DT1
EC2
ET1
FC2
FT1
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GND
GND TTL
SHEET 11 OF 13
M8629-0-MMAB
REV.
SIZE D
CODE CS
NUMBER M8629-0-MMAB
REVISIONS
CHK CHANGE NO. REV
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digital
DRN. D.Toomey
CHK'D. W.Mellor
DATE 15-NOV-77
ENG.
DATE
BOARD LOCATION:
SHEET 1 OF 1
MMAB.DRW[4,655] 09-NOV-77 13:29
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KS10
B-CO-M8629-0
TITLE: MOS MEMORY ARRAY POWER,GND,CAPS
SIZE D
CODE CS
NUMBER M8629-0-MMAB
REV.



SHEET 12 OF 13

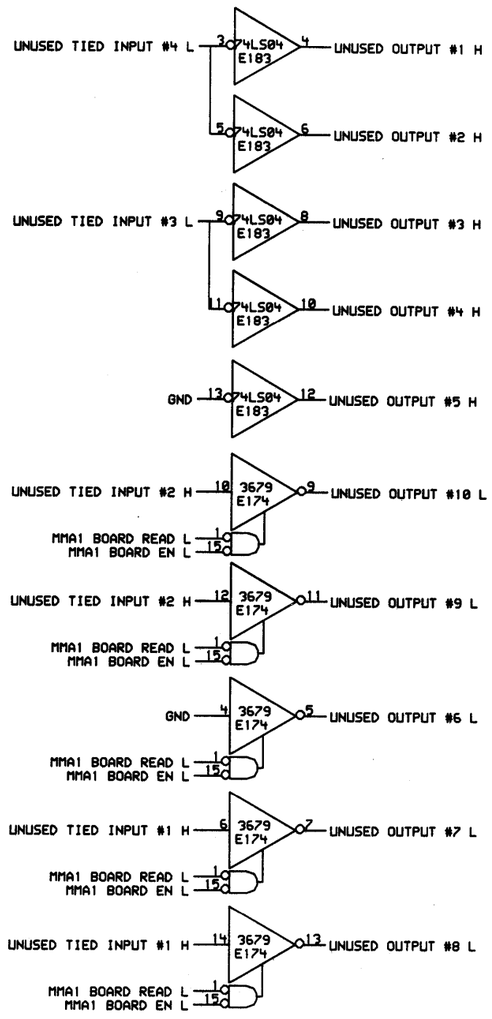
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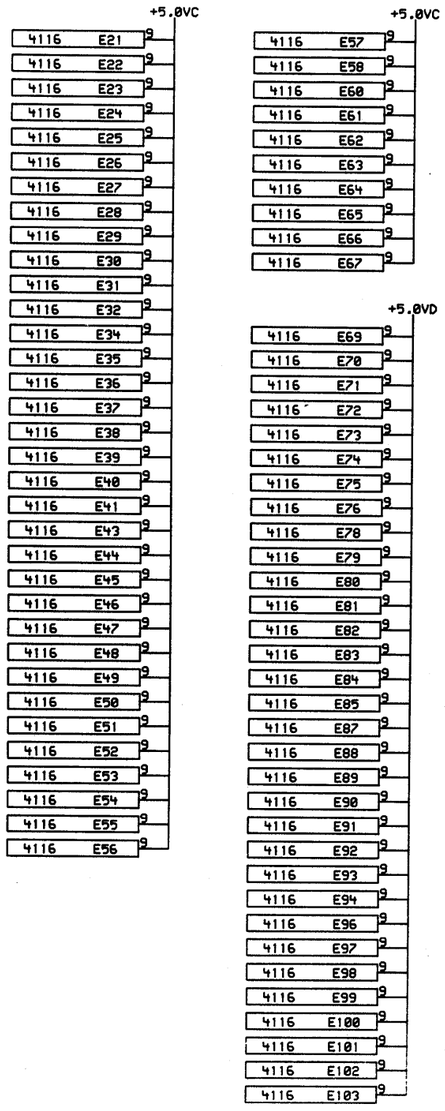
REVISIONS		
CHK	CHANGE NO.	REV

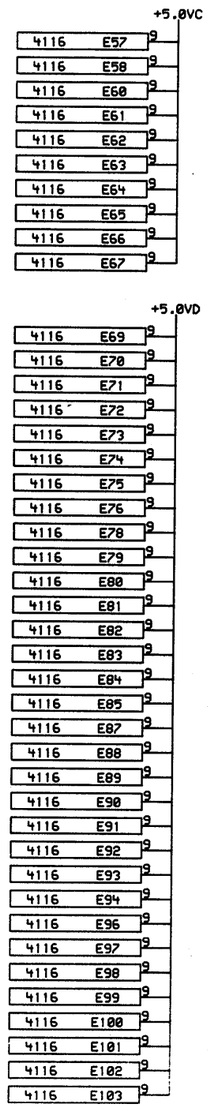
digital	DRN. S.Loomis	DATE 16-NOV-77	ENG.	DATE
	CHK'D.	DATE	BOARD LOCATION: SHEET 1 OF 1	
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FIRST USED ON OPTION/MODEL: KS10		B-DD-M8629-0		

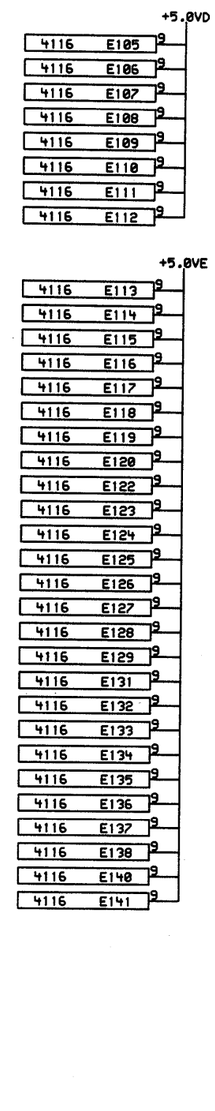
TITLE: MOS MEMORY ARRAY POWER,GND,CAPS

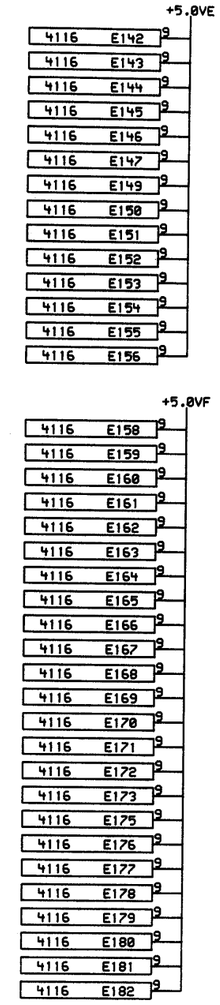
SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMAC	

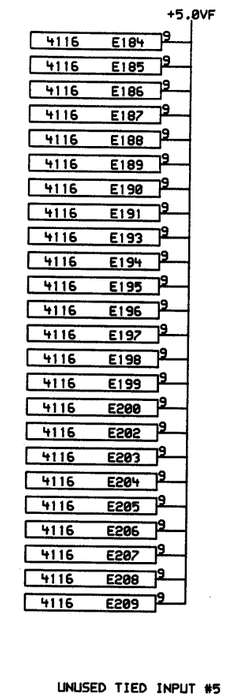


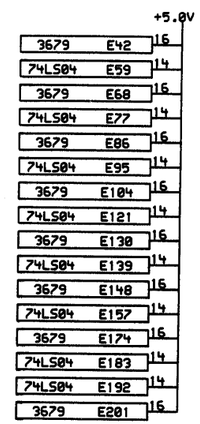


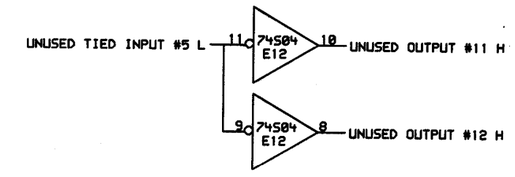












SHEET 13 OF 13

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REVISIONS

CHK	CHANGE NO.	REV

digital

DRN. B. Looney — DATE 22-NOV-77 — ENG. — DATE — TITLE: MOS MEMORY ARRAY ARRARY +5.0V

CHK'D. — DATE — BOARD LOCATION: — SHEET 1 OF 1

MMAD.DRW[4,655] — 09-NOV-77 15:56 — NEXT HIGHER ASSEMBLY: B-[illegible]-M8629-0

FIRST USED ON OPTION/MODEL: KS10

SIZE	CODE	NUMBER	REV.
D	CS	M8629-0-MMAD	

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION DATE 17 FEB 78

TITLE KS10-AA, AB MANUFACTURING TEST SPECIFICATION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	APPD	SIZE	CODE	NUMBER	REV
Marty Schwartz	T. Duncan 4/25/78	A	SP	KSIØ-Ø-2	

1.0

This specification is intended to provide a criteria to insure the option under test is fully functional and to specify limits for product maturation. It is not intended to specify the amount of testing to achieve product maturation or the testing sequence for optimal debugging.

2.0 DIAGNOSTICS REQUIRED FOR BASIC CPU TESTING

a.	SMCPU.CMD	Processor Diagnostic Run File
b.	DSKAA.SAV	Basic Instruction Diagnostic #1
c.	DSKAB.SAV	Basic Instruction Diagnostic #2
d.	DSKAC.SAV	Basic Instruction Diagnostic #3
e.	DSKAD.SAV	Basic Instruction Diagnostic #4
f.	DSKAE.SAV	Basic Instruction Diagnostic #5
g.	DSKAF.SAV	Basic Instruction Diagnostic #6
h.	DSKAG.SAV	Basic Instruction Diagnostic #6
i.	DSKAH.SAV	Basic Instruction Diagnostic #7
j.	DSKAI.SAV	Basic Instruction Diagnostic #8
k.	DSKAJ.SAV	Basic Instruction Diagnostic #9
l.	DSKAK.SAV	Basic Instruction Diagnostic #10
m.	DSKAL.SAV	Basic Instruction Diagnostic #11
n.	DSKAM.SAV	Basic Instruction Diagnostic #12
o.	DSKAB.SAV	Basic Instruction Reliability #1
p.	DSKCA.SAV	Advanced Instruction Diagnostic #1
q.	DSKCB.SAV	Advanced Instruction Diagnostic #2
r.	DSKCC.SAV	Advanced Instruction Diagnostic #3
s.	DSKCD.SAV	Advanced Instruction Diagnostic #4
t.	DSKCE.SAV	Advanced Instruction Diagnostic #5
u.	DSKDA.SAV	Arithmetic Reliability
v.	DSKEA.SAV	Paging Diagnostic
w.	DSKFB.SAV	Instruction Timing Diagnostic
x.	DSMMG.SAV	Memory Diagnostic
y.	DSRME.SAV	RMØ3 Baisc Diagnostic
z.	DSRMF.SAV	RMØ3 and RPØ6 Reliability

3.0 ADJUSTMENTS and/or SPECIAL TESTS

Before any diagnostic programs can be run, the T and R clocks which originate on the M8616 module must be deskewed. The M8616 must NOT be on an extender and no other modules should be installed to allow clearence to set the delay line switches.

	SIZE	CODE	NUMBER	REV
	A	SP	KSIØ-Ø-2	

The T and R clocks are deskewed by locating the clock in each group of four which falls in the center of the four clocks and skewing it with the center clock in each other group by setting the switch inputs of the programable delay lines. Refer to D-CS-M8616-0-1.

3.1 Procedure

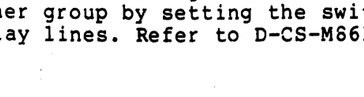
3.1.1 Connect channel 1 and 2 to A18H2 (T clk) and connect the probe grounds to T1 or C2 of any slot. Sync on the negative transition.
Check that the two channels align at the 1.5 volt value.

3.1.2 Set all delays to mid value (delay = 7 n.s.) as follows.
Set all switches on E208 and E309 off.
Set E208-1,5 and E309-1,3,7 on.

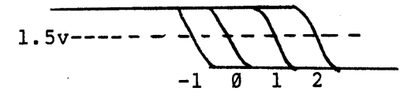
3.1.3 Locate the center clock in group 1 and connect the center clock to channel 1.

To locate the clock which falls in the center of the group connect channel one to one of the clocks in the group. Assign its negative transition at the 1.5v level a value of zero to the x axis. Then connect channel 2 to the other clocks in the group and add the skew values of the other three clocks in relation to the first clock and divide the value by four.
Select the clock nearest to the center value as the center clock.
Refer to Table 1 for clock groups.

EXAMPLES:



-1+Ø+1+1=1-4=1/4 n.s.
Clock which crosses at zero is center clock



-1+Ø+1+2=2-4=1/2 n.s.
clock which crosses at one is center clock

3.1.4 Verify that the negative edge of the center clock in group 2 and 3 is within 7 n. s. of the negative edge of group 1.
If not move group 1 delay + or - to get under 7 n. s.
Refer to Table 2.

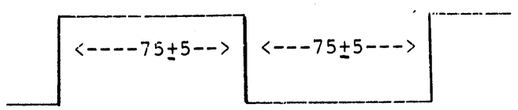
3.1.5 Verify that the + edge of the center clock in group 4 and 5 is within 35 n. s. + 7 of the negative edge in group 1
If not move group 1 delay + or - to get under 7 n. s.

Example: If a group is 12 n. s. late with respect to group 1 change the group 1 delay from 7 to 2 n.s.

If a group is 12 n.s. early with respect to group 1 change the group 1 delay from 7 to 12 n.s.
If the skew between any two groups is greater than 13 n.s. the board can not be deskewed.
One or more of the components is out of spec.

3.1.6 Deskew the center clock of each group by adjusting the switches in Table 2 to miniminize skew with respect to group 1.

3.3.7 Verify that the symmetry of the half cycles is 5 n.s. or less.



4.0 MTBF

This option must have sufficient power on time to insure process maturity. MTBF's for modules are specified as follows:

M8616	(CSL)	8227 Hrs.
M8618	(MMC)	74253 Hrs.
M8619	(UBA)	53636 Hrs.
M8620	(DPE)	13380 Hrs.
M8621	(DPM)	36090 Hrs.
M8622	(CRA)	14488 Hrs.
M8623	(CRM)	9460 Hrs.
M8629	(ARRAY)	68854 Hrs.

MTBF of the power system is specified as follows:

H7130	(Power Supply)	15000 Hrs.
861C	(Power Control)	483676 Hrs.

5.0 MAXIMUM ENVIRONMENTAL TEST CONDITIONS

a. Humidity - less than or equal to 80% non-condensing

b. Temperature - +50° F to +120° F (fans in operation)

6.0 POWER SYSTEM

a. DC Voltage Specification

+5.0 Volts	±5%
-15.0 Volts	±5%
-5.0 Volts	±5%
+12.0 Volts	±10%

b. AC Voltage Specification

KS10-AA	Line Voltage 104-126 VAC Frequency 60Hz ±1 Hz
KS10-AB	Line Voltage 207-253 VAC Frequency 50Hz ±1 Hz

. Thermal Shutdown

The KS1Ø will power down via the DEC Power Control Bus when the temperature of the air entering the CPU card cage exceeds 105° F ± 4° F .

f. Power Fail

Minimum ride through during a power outage condition is 5 ms.

g. Power Transients

No system degradation for single transient of 3ØØ volts @ .2 Watt-seconds.

Survival for single transient of 1ØØØ volts @ 2.5 Watt-seconds.

7.0 MARGINS

a. Voltage Margins

Must run SMCPU.CMD, DSMMG (WCP), and DSRMF (FRTEST and RCTEST) with the following voltage margins:

+5.0 volts	+5.25 volts to +4.75 volts
-5.0 volts	-5.25 volts to -4.75 volts
-15.0 volts	-14.25 volts to +15.75 volts
+12.0 volts	+13.2 volts to +1Ø.8 volts

Voltages are adjusted and measured with a DVM (.1% accuracy or better) as follows:

[Refer to Figure 1]

Voltage	Adjustment	Measured At
+5.0 volts	V1	A01A2
+5.0 volts	V2	A19A2
-5.0 volts	V5	A01B2
-15.0 volts	V4	A18B2
+12.0 volts	V3	A01U2

b. Speed Margins

Must run SMCPU.CMD, DSMMG (WCP) and DSRMF (FRTEST and RCTEST) with master oscillator running at 25.0 MHZ (slow margin) and at 30.0 MHZ (fast margin) via external clock generator.

c. Unibus Margins

The Unibus must be margined with the Unibus Voltage Margin Tester and the M9308 single-ended margin terminator. All functional tests which use the Unibus must run successfully between 7.85 Volts (high margin) and 2.93 Volts (low margin) as displayed by the panel meter on the tester.

8.0 VIBRATION

Modules must be vibrated using a Teflon rod or similar "wand" while the option is in operation. Modules should be stroked in a direction perpendicular to the plane of the board. The modules should be vibrated briskly but not with enough force to cause physical damage or to remove pin contact.

9.0 FUNCTIONAL TESTS

The following tests must be run to insure that the option is fully functional:

a. Verify that the 8080 micro-processor is fully functional by executing all console fuctions and verifying that they were executed correctly.

b. Run SMCPU.CMD with cache on.

c. Run DSKFB (SPEEDY) with cache on and cache off. Refer to Table 3 for instruction timing specs.

d. Run DSKDA for one pass with the reliability switch on.

e. Run DSMMG for one pass with cache on and one pass with cache off/ECC off.

f. Using "known good" storage array modules test any remaining storage array slots with DSMMG.

g. With a Unibus Adapter Board (M8619) in slot 19 (UBA 1) run DSRME and DSRMF disc diagnostics. Repeat with the Unibus Adapter in slot 16 (UBA 3) and slot 15 (UBA 4).

10.0 ERROR RATES

No errors allowed

11.0 RETEST PROCEDURE AFTER FAILURE

Repair of Module - If the failing module is repaired, then testing may continue from the current point in the test sequence.

Replacement of Module - Test must be rerun