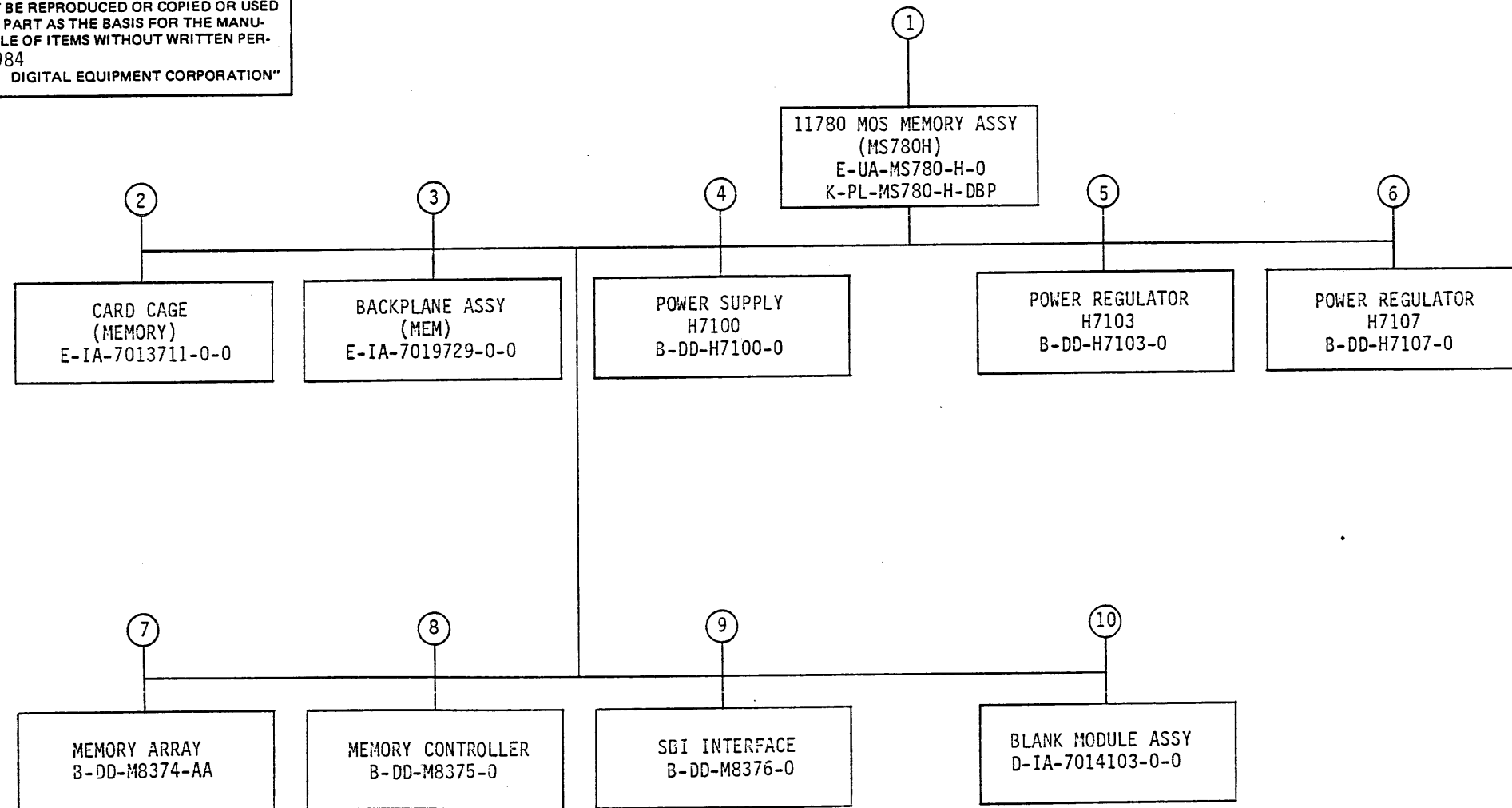


FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE			
1		11780 MEMORY ASSY (MS780-H)	-	5	B-DD-H7103-0	POWER REGULATOR H7103				
	B-TC-MS780-H-1	11780 MEMORY ASSY (MS780-H)	-							
	E-UA-MS780-H-0	11780 MEMORY ASSY (MS780-H)	E/M							
	K-PL-MS780-H-DBP	11780 MEMORY ASSY (MS780-H)	E/M							
	B-IA-7418724-0-0	PLATE STUD P.C. BOARD	M	6	B-DD-H7107-0	E MEMORY REGULATOR				
	B-MD-7418738-0-0	PLATE P.C. BOARD	M							
	B-MD-7419484-0-0	COVER MEMORY	E/M							
	D-IA-7019586-0-0	CABLE +5B	E/M							
	D-IA-7014212-0-0	CABLE AC DC LO	E/M	7	B-DD-M8374-AA	1M X 39 BIT MOS MEMORY				
	D-IA-7014529-0-0	CABLE +5 MEMORY (RED)	E/M							
	D-IA-7014250-0-0	CABLE POWER RTR MEMORY (BLACK)	E/M							
	D-IA-11780-0-1	11780 SYS POWER DIAGRAM	E							
	D-IC-11780-0-2	1178- SYS INTERCONNECT DIAGRAM	E/M	8	B-DD-M8375-0	MEMORY CONTROLLER				
	D-IC-11780-0-3	11780 SUB SYS INTERCONNECT	E/M							
	D-MU-MS780-H-2	MS780-H MODULE UTILIZATION	E/M							
	D-BD-MS780-H-3	MS780-H MEMORY BLOCK DIAGRAM	E							
	D-TD-MS780-H-4	MS780-H MEMORY TIMING DIAGRAM	E	9	B-DD-M8376-0	SBI INTERFACE				
	D-FD-MS780-H-5	MS780-H MEMORY FLOW DIAGRAM	E							
	D-IA-14213-0-0	CABLE OVER TEMP	E/M							
	E-IA-7018759-0-0	SUPPLY +5V MEMORY OPTION	E/M							
				10	D-IA-7014103-0-0	BLANK MODULE ASSY				
					E-MD-7418172-0-0	BLANK MODULE				
2	E-IA-7013711-0-0	CARD CAGE (MEMORY)	M							
	C-MD-7417930-0-0	MOUNTING BAR VERTICAL	M							
	C-MD-7417910-0-0	BRACKET CARD GUIDE	M							
	C-MD-7417912-0-0	BRACKET BOTTOM CARD GUIDE	M							
	C-MD-7427911-0-0	BRACKET TOP CARD GUIDE	M							
	C-MD-7417942-0-0	HANDLE CARD CAGE	M							
	C-MD-7418194-0-0	STIFFENER	M							
	C-MD-7418181-0-0	STIFFENER CORNER	M							
	C-MD-7417913-0-0	BRACKET TOP REAR	M							
3	E-IA-7019729-0-0	BACKPLANE ASSY (MS780-H)	E/M							
	E-MD-5015031-0-0	ETCH CIRCUIT BOARD	E/M							
	C-MD-7417867-0-0	BAR MOUNTING	M							
	A-SP-7019729-0-0	PROCESS SPEC	E/M							
	K-WL-7019729-0-1	WIRE LIST (MEM)								
	A-DC-7411881-0-0	DECAL AWT REV STATUS								
4	B-DD-H7100-0	POWER SUPPLY (H7100)								
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL				TITLE 11780 MEMORY ASSY (MS780-H)		SHEET 2 OF 3	SIZE B DD	CODE DD	NUMBER MS780-H	REV A

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TITLE
11780 MEMORY ASSY (MS780-H)

SHEET 3 OF 3

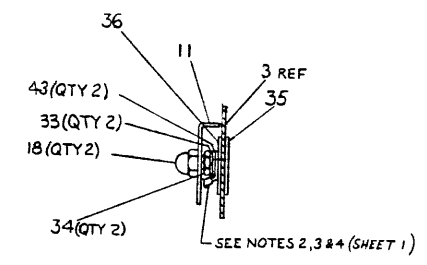
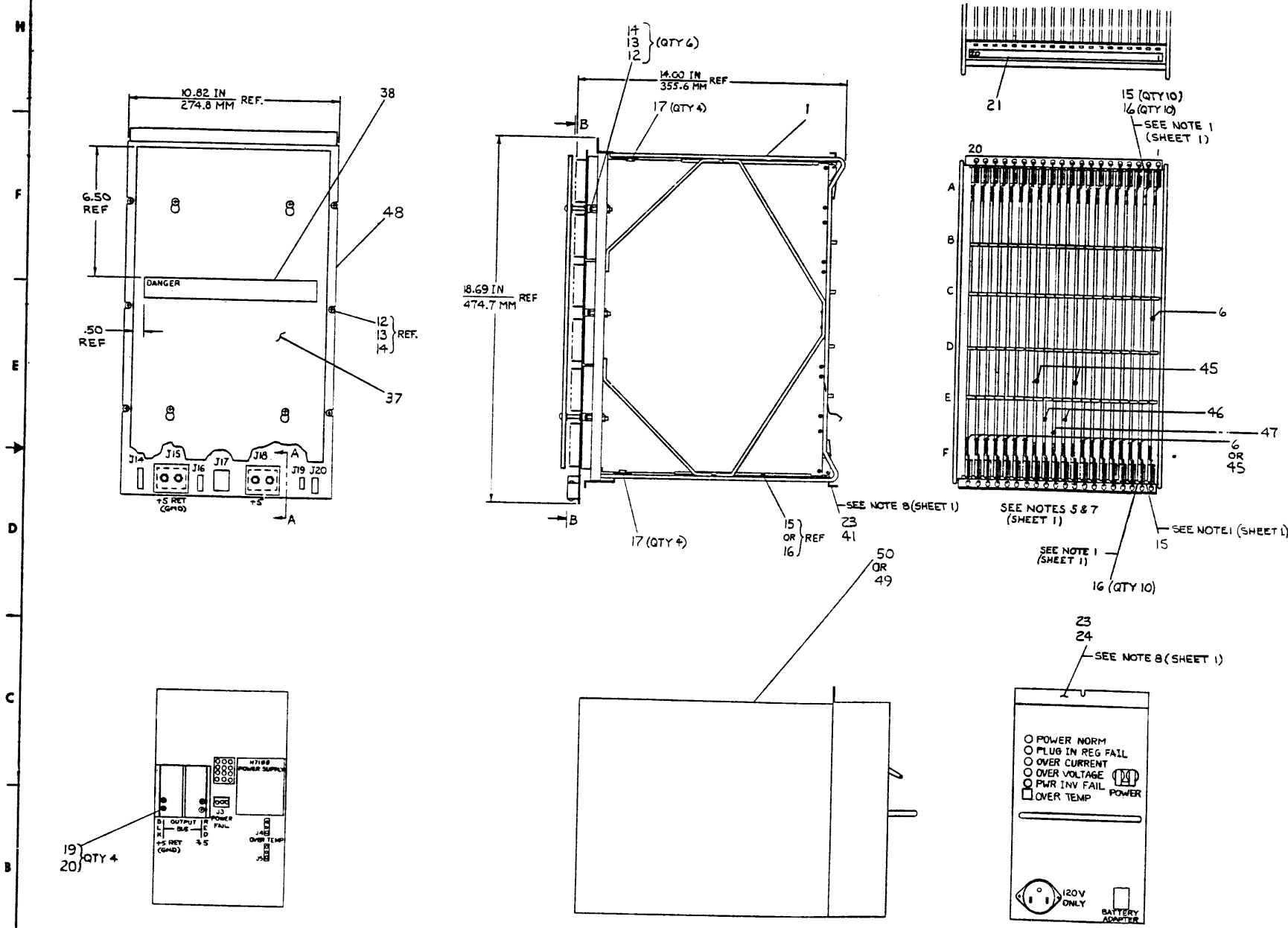
SIZE
B
CODE
DD

NUMBER
MS780-H

REV
A

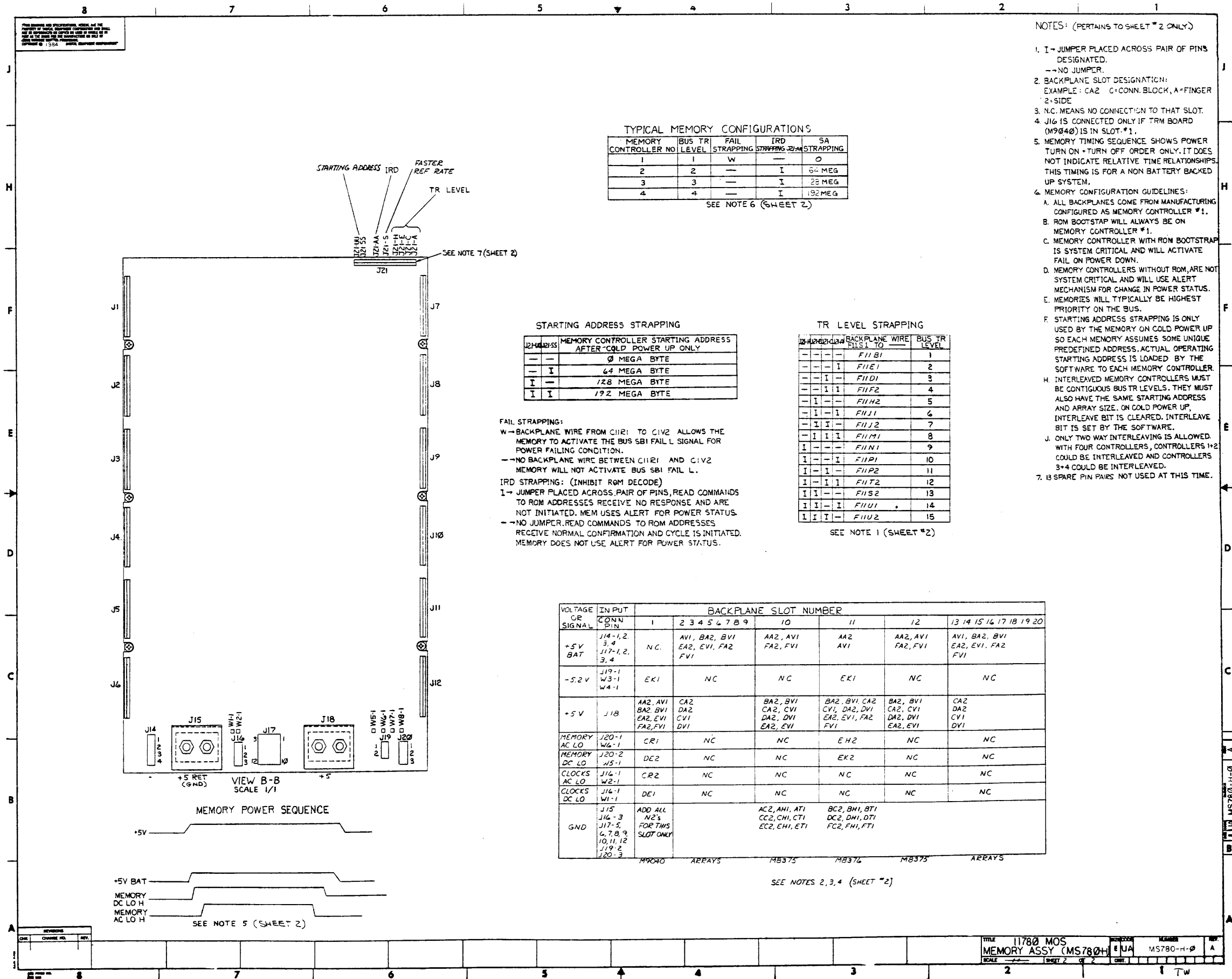
NUMBER	VARIATION
MS780-HC	8 MBYTE SYS CONTROLLER AND POWER SUPPLY
MS780-HD	240V 50HZ HC
MS780-J4	8 MBYTE EXPANSION (2 MB374)
MS780-JB	16 MBYTE EXPANSION (4 MB374)
MS780-JC	32 MBYTE EXPANSION (8 MB374)
MS780-JD	4 MBYTE EXPANSION (1 MB374)
MS780-JF	40 MBYTE EXPANSION (10 MB374)
MS780-HA	6 MBYTE SYS EXPANSION CONTROLLER AND POWER SUPPLY
MS780-HB	240V 50HZ HA

- NOTES: (PERTAIN TO SHEET 1 ONLY)
1. CARD GUIDE TO BE INSTALLED AS FOLLOWS:
ITEM 15 IN ALL ODD ROWS 1,3,5 ETC.
ITEM 16 IN ALL EVEN ROWS 2,4,6 ETC.
 2. FOR SYSTEM INTERCONNECTION SEE D-IC-11780-0-3
 3. FOR SYSTEM CABLE INTERCONNECTION SEE D-IC-11780-0-2
 4. FOR SYSTEM A/C INTERCONNECTION SEE D-IC-11780-0-1
 5. FOR MS780-H MODULE UTILIZATION SEE D-MU-MS780-H-2
 6. FOR ORIENTATION OF POWER SUPPLY SEE E-UA-11780-0-0
 7. FOR SYSTEM EXPANSION REFER TO D-MU-MS780-H-2.
 8. OPTION MOUNTING HARDWARE FOR INSTALLATION REF E-UA-11780-0-0.



FOR PARTS LIST SEE KPL-MS780-H-DBP

QUANTITY & VARIATION	DESCRIPTION	ORIG. PART NO.	ITEM NO.
1	11780 MOS MEMORY ASSY (MS780-H)	11780	1
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	2
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	3
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	4
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	5
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	6
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	7
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	8
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	9
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	10
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	11
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	12
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	13
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	14
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	15
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	16
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	17
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	18
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	19
1	120V 50HZ AC POWER SUPPLY	120V 50HZ AC POWER SUPPLY	20



TYPICAL MEMORY CONFIGURATIONS

MEMORY CONTROLLER NO	BUS TR LEVEL	FAIL STRAPPING	IRD STRAPPING	SA
1	1	W	—	0
2	2	—	I	64 MEG
3	3	—	I	256 MEG
4	4	—	I	192 MEG

SEE NOTE 6 (SHEET 2)

STARTING ADDRESS STRAPPING

STARTING ADDRESS	MEMORY CONTROLLER	STARTING ADDRESS AFTER COLD POWER UP ONLY
—	—	0 MEGA BYTE
I	I	64 MEGA BYTE
I	I	128 MEGA BYTE
I	I	192 MEGA BYTE

FAIL STRAPPING:
W → BACKPLANE WIRE FROM C11R1 TO C1V2 ALLOWS THE MEMORY TO ACTIVATE THE BUS SBI FAIL L SIGNAL FOR POWER FAILING CONDITION.
— → NO BACKPLANE WIRE BETWEEN C11R1 AND C1V2 MEMORY WILL NOT ACTIVATE BUS SBI FAIL L.

IRD STRAPPING: (INHIBIT ROM DECODE)
I → JUMPER PLACED ACROSS PAIR OF PINS, READ COMMANDS TO ROM ADDRESSES RECEIVE NO RESPONSE AND ARE NOT INITIATED. MEM USES ALERT FOR POWER STATUS.
— → NO JUMPER, READ COMMANDS TO ROM ADDRESSES RECEIVE NORMAL CONFIRMATION AND CYCLE IS INITIATED. MEMORY DOES NOT USE ALERT FOR POWER STATUS.

TR LEVEL STRAPPING

BACKPLANE WIRE	BUS TR LEVEL
FI1B1	1
FI1E1	2
FI1D1	3
FI1F2	4
FI1H2	5
FI1J1	6
FI1J2	7
FI1M1	8
FI1N1	9
FI1P1	10
FI1P2	11
FI1T2	12
FI1S2	13
FI1U1	14
FI1U2	15

SEE NOTE 1 (SHEET 2)

VOLTAGE OR SIGNAL	INPUT CONN PIN	BACKPLANE SLOT NUMBER															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
+5V BAT	J14-1,2,3,4 J17-1,2,3,4	N.C.	AA2, AV1, EA2, EV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1	AA2, AV1, FA2, FV1
-5.2V	J19-1 W3-1 W4-1	EK1	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
+5V	J18	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1	AA2, AV1, BA2, BV1, CA2, CV1, EA2, EV1, FA2, FV1
MEMORY AC LO	J20-1 W6-1	CR1	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
MEMORY DC LO	J20-2 W5-1	DE2	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
CLOCKS AC LO	J14-1 W2-1	CR2	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
CLOCKS DC LO	J14-1 W1-1	DE1	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
GND	J15-3 J16-3 J17-5, 6, 7, 8, 9, 10, 11, 12 J19-2 J20-3	ADD ALL N2'S FOR THIS SLOT ONLY	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1	AC2, AH1, AT1, CC2, CH1, CT1, EC2, EH1, ET1

SEE NOTES 2, 3, 4 (SHEET 2)

- NOTES: (PERTAINS TO SHEET #2 ONLY)
1. I → JUMPER PLACED ACROSS PAIR OF PINS DESIGNATED.
— → NO JUMPER.
 2. BACKPLANE SLOT DESIGNATION:
EXAMPLE: CA2 C-CONN. BLOCK, A-FINGER 2-SIDE
 3. N.C. MEANS NO CONNECTION TO THAT SLOT.
 4. J16 IS CONNECTED ONLY IF TRM BOARD (M9840) IS IN SLOT #1.
 5. MEMORY TIMING SEQUENCE SHOWS POWER TURN ON + TURN OFF ORDER ONLY. IT DOES NOT INDICATE RELATIVE TIME RELATIONSHIPS. THIS TIMING IS FOR A NON BATTERY BACKED UP SYSTEM.
 6. MEMORY CONFIGURATION GUIDELINES:
A. ALL BACKPLANES COME FROM MANUFACTURING CONFIGURED AS MEMORY CONTROLLER #1.
B. ROM BOOTSTRAP WILL ALWAYS BE ON MEMORY CONTROLLER #1.
C. MEMORY CONTROLLER WITH ROM BOOTSTRAP IS SYSTEM CRITICAL AND WILL ACTIVATE FAIL ON POWER DOWN.
D. MEMORY CONTROLLERS WITHOUT ROM, ARE NOT SYSTEM CRITICAL AND WILL USE ALERT MECHANISM FOR CHANGE IN POWER STATUS.
E. MEMORIES WILL TYPICALLY BE HIGHEST PRIORITY ON THE BUS.
F. STARTING ADDRESS STRAPPING IS ONLY USED BY THE MEMORY ON COLD POWER UP SO EACH MEMORY ASSUMES SOME UNIQUE PREDEFINED ADDRESS. ACTUAL OPERATING STARTING ADDRESS IS LOADED BY THE SOFTWARE TO EACH MEMORY CONTROLLER.
G. INTERLEAVED MEMORY CONTROLLERS MUST BE CONTIGUOUS BUS TR LEVELS. THEY MUST ALSO HAVE THE SAME STARTING ADDRESS AND ARRAY SIZE. ON COLD POWER UP, INTERLEAVE BIT IS CLEARED. INTERLEAVE BIT IS SET BY THE SOFTWARE.
H. ONLY TWO WAY INTERLEAVING IS ALLOWED. WITH FOUR CONTROLLERS, CONTROLLERS 1+2 COULD BE INTERLEAVED AND CONTROLLERS 3+4 COULD BE INTERLEAVED.
I. 13 SPARE PIN PAIRS NOT USED AT THIS TIME.

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PARTS LIST

SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION									
						HA	HB	HC	HD	JA	JB	JC	JD	JF	
						VARIATION REVISION LEVEL:									
						A1	A1	A1	A1	A1	A1	A1	A1	A1	
1	1	E-UA-7013711-0-0	7013711-00		CARD CAGE MEM	1	1	1	1	-	-	-	-	-	
2	2		3614746-02		LABEL,MOD.UTILIZATION,MS780-H	1	1	1	1	-	-	-	-	-	
3	6	D-IA-7014103-0-0	7014103-00		BLANK MODULE ASSY	13	13	15	15	-	-	-	-	-	
4	11	E-MD-7419484-0-0	7419484-00		COVER, BUS BAR CPU	2	2	2	2	-	-	-	-	-	
5	12		9006043-01		SCREW,MACH PAN PHIL 8-	6	6	6	6	-	-	-	-	-	
6	13		9006660-00		WASHER,FLAT SST	6	6	6	6	-	-	-	-	-	
7	14		9006563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32	6	6	6	6	-	-	-	-	-	
8	15		1212405-00		GUIDE,CARD ,NYLON ,NATURAL	20	20	20	20	-	-	-	-	-	
9	16		1212405-01		GUIDE,CARD ,NYLON ,MAGNETA	20	20	20	20	-	-	-	-	-	
10	17		1211630-00		GUIDE,CARD ,POLMIDE,NATURAL	8	8	8	8	-	-	-	-	-	
11	18		9006611-00		NUT,RELOCK 1/4-20X .438AF NYLO	4	4	4	4	-	-	-	-	-	
12	19		9006071-01		SCREW,MACH PAN PHIL 10-	4	4	4	4	-	-	-	-	-	
13	20		9007906-00		WASHER,HELICAL SPLIT STEEL	4	4	4	4	-	-	-	-	-	
14	21		3613281-04		LABEL,ADHESIVE BACK FOR BA11-K	2	2	2	2	-	-	-	-	-	
15	22		3614744-00		LABEL,WARNING SWITCH OFF MEMORY	1	1	1	1	-	-	-	-	-	
16	23		9006037-03		SCREW,MACH TRUSS PHIL 8-	7	7	7	7	-	-	-	-	-	
17	24		9006634-00		WASHER,LOCK INTERNAL STEEL	1	1	1	1	-	-	-	-	-	
18	29	D-IA-7014212-1C-0	7014212-1C		CABLE AC,DC,LOW	1	1	1	1	-	-	-	-	-	
19	30	D-IA-7014529-0K-0	7014529-0K		CABLE MEMORY	2	2	2	2	-	-	-	-	-	
20	31	D-IA-7014250-0K-0	7014250-0K		CABLE MEMORY POWER	2	2	2	2	-	-	-	-	-	
21	32		1214314-00		CONN,P+S 02SKT(1X02).100CC JUM	5	5	5	5	-	-	-	-	-	
22	33		9007797-00		WASHER,HELICAL SPLIT SST	4	4	4	4	-	-	-	-	-	
23	34		9006566-00		NUT,HEX 1/4-20X .431AF CS/C	4	4	4	4	-	-	-	-	-	
24	35	E-IA-7418724-0-0	7418724-00		STUD PLATE, PC BD	2	2	2	2	-	-	-	-	-	
25	36	B-MD-7418738-0-0	7418738-00		PLATE PC BD	2	2	2	2	-	-	-	-	-	
26	37	C-MD-7419454-0-0	7419454-00		COVER MEMORY BACKPLANE	1	1	1	1	-	-	-	-	-	
27	38		3615087-02		LABEL,"DANGER-HIGH CURRENT"	1	1	1	1	-	-	-	-	-	
28	39		1700087-00		CABLE,RIBBON,20 COND. ASSY FLAT	6	6	6	6	-	-	-	-	-	
29	40		7014213-0K		CAB OVER TEMP	1	1	1	1	-	-	-	-	-	
30	41		9008072-00		WASHER,LOCK EXTERNAL STEEL	6	6	6	6	-	-	-	-	-	

REVISION HISTORY			BASIC PART NO: MS780		DRN: B. PELLICCIA		DATE: 20-JUN-84		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A									
---	INITIAL	A	SECTION VARIATION INDEX		CHK'D: T. MCCULLOUGH		DATE: 20-JUN-84		TITLE PARTS LIST			
			[A]HA,HB,HC,HD,JA,JB,JC,JD,JF						11780 MEMORY ASSY (MS780-H)			
			[B]		DES.ENG: M. GAGLIARDO		DATE: 20-JUN-84		DOCUMENT NUMBER			
			[C]						SIZE	CODE	NUMBER	REV
			[D]		RESP.ENG.: P. GREENAWAY		DATE: 20-JUN-84		K	PL	MS780-H-DBP	A
			[E]		MFG.ENG.: J. LEFORT		DATE: 20-JUN-84		RELEASE DATE: 19-DEC-84			
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					E-UA-MS780-0-0		B-DD-MS780-H-0		Z9624A.PLS		9	

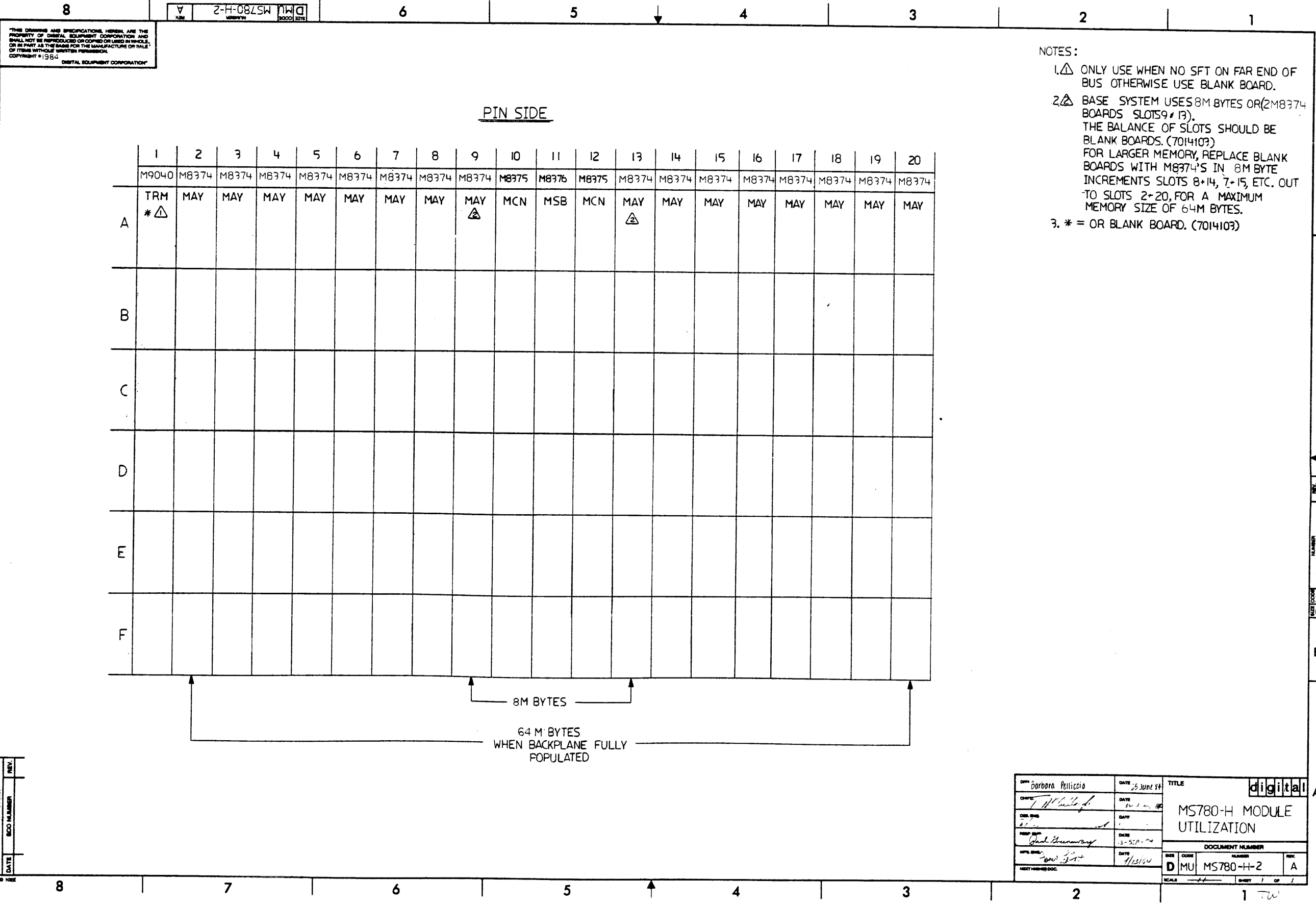
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PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION									
						HA	HB	HC	HD	JA	JB	JC	JD	JF	
						A1	A1	A1	A1	A1	A1	A1	A1	A1	
VARIATION REVISION LEVEL:						A1	A1	A1	A1	A1	A1	A1	A1	A1	
31	43		9006646-00		WASHER,FLAT	SSE	2	2	2	2	-	-	-	-	-
32	44		3614743-00		LABEL,MEMORY POWER SUPPLY		1	1	1	1	-	-	-	-	-
33	45		M8374-AA		1M X 39BIT MOS MEM ARRAY,=M8374-		4	4	2	2	2	4	8	1	10
34	46		M8375-00		MEMORY CONTROL,4-LAYER HEX.12		2	2	2	2	-	-	-	-	-
35	47		M8376-00		SBI INTERFACE,4-LAYER HEX.12		1	1	1	1	-	-	-	-	-
36	48		7019729-00		BACKPLANE ASSY MEMORY		1	1	1	1	-	-	-	-	-
37	49		7018759-00		SUPPLY +5V MEMORY OPT		1	-	1	-	-	-	-	-	-
38	50		7018759-01		SUPPLY +5V MEMORY OPT		-	1	-	1	-	-	-	-	-
39	51		7019586-1E		CABLE +5B		1	1	1	1	-	-	-	-	-
40	52		3700402-00		PKG KIT OPTION MS780-CA/-E CUSTO		1	1	1	1	1	1	1	1	1
41	53		7022126-01		MS780-E SHIPPING LIST		1	1	1	1	1	1	1	1	1

DIGITAL	TITLE	11780 MEMORY ASSY (MS780-H)	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				K	PL	MS780-H-DBP	A

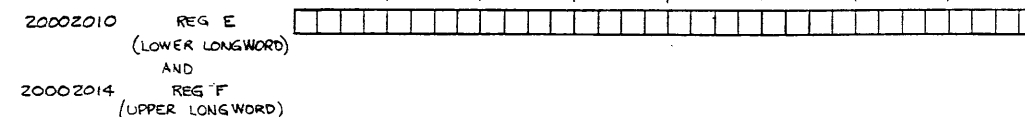
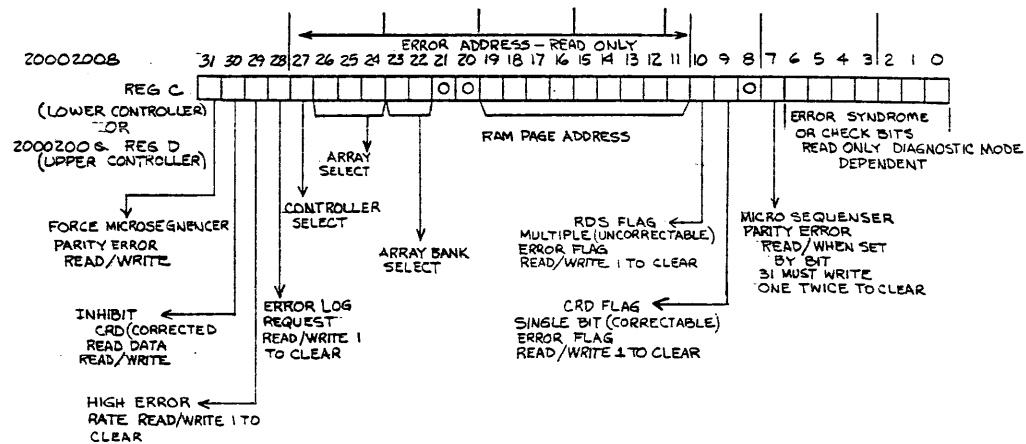
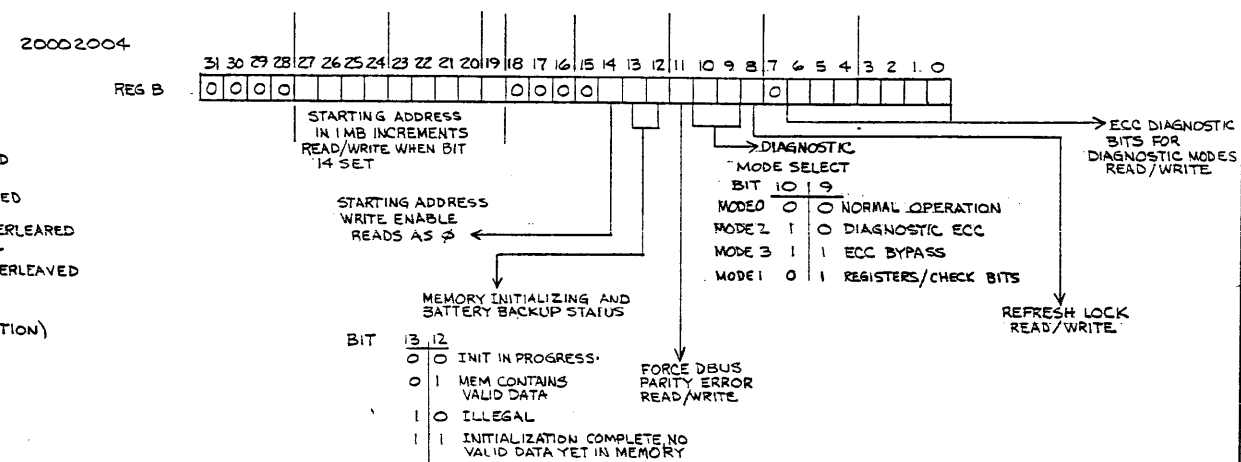
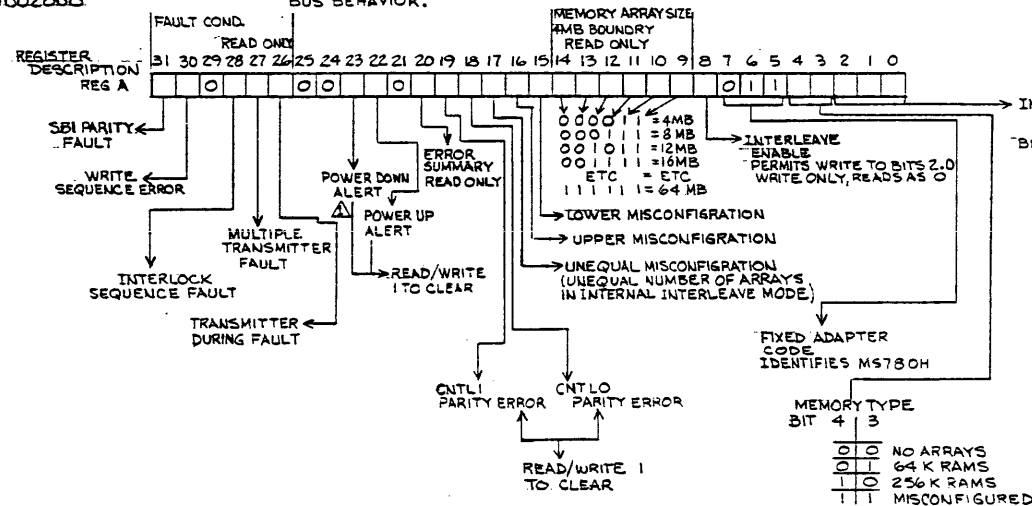


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REGISTERS

REGISTERS
M6800H INCORPORATES SIX ADDRESSABLE REGISTERS. THEY ARE
REGISTER AT ASCENDING LONGWORD LOCATIONS BEGINNING AT HEX
CONSOLE ADDRESS 2000X000. WHERE 'X' IS 2 IF THE MEMORY IS
BACKPLANE - JUMPED TO TR LEVEL 1, 4 FOR TR LEVEL 2, 6 FOR TR
LEVEL 3, AND SO ON. IN ADDITION, THE FOLLOWING 2 LOCATIONS
CAN BE "WRITTEN" WITHOUT AFFECTING MEMORY STATUS.
THESE ARE NONEXISTENT REGISTERS BUT ACCESS RESULTS IN NORMAL
BUS BEHAVIOR.

CONSOLE ADDRESS
20002000

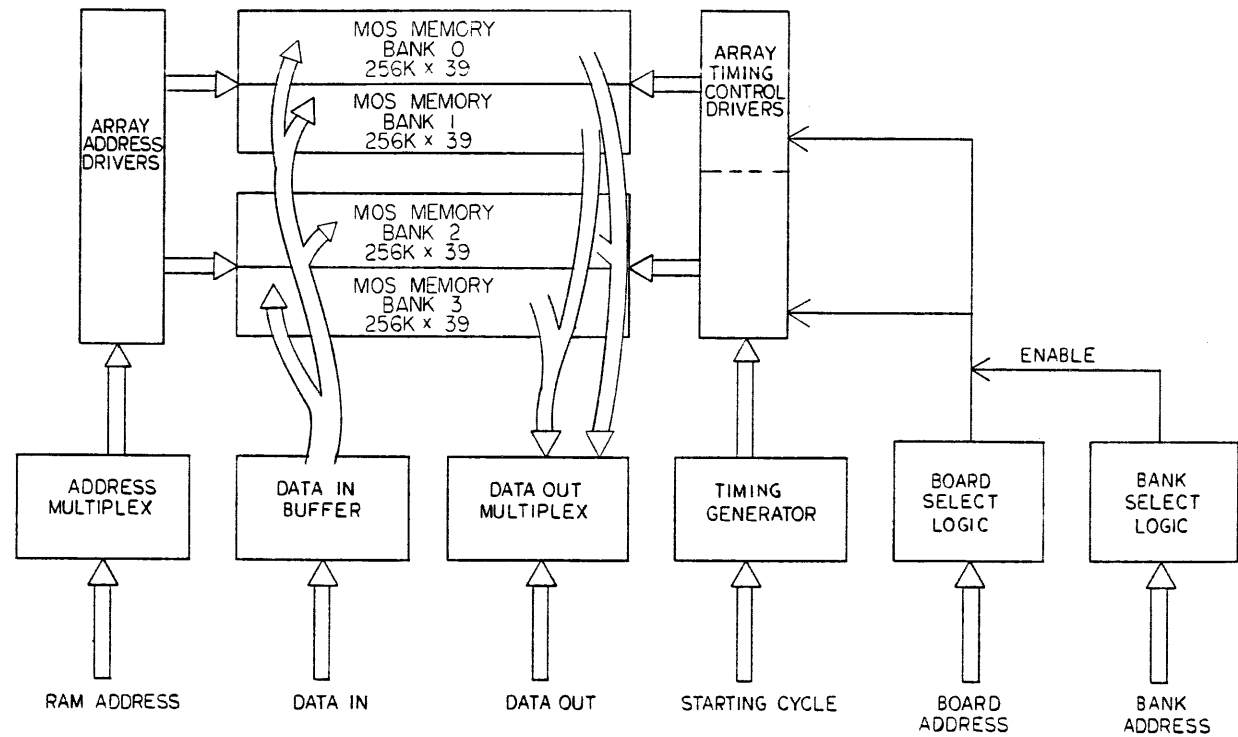


NOTE: THESE BITS ARE USED ONLY BY
MEMORY CONTROLLERS WITHOUT ROM BOOT STRAP.

(MEMORY CONTROLLER CONFIGURATION REGISTERS.)

REVISION HISTORY		
DATE	ECO NUMBER	REV.

OWN: Barbara Pelliccia	DATE: 35 June 94	TITLE: digitat
CHRG: T. J. L. L. L.	DATE: 30 June 94	M5780-H MEMORY BLOCK DIAG.
DIR: ENG	DATE: 10 - 11 - 94	
PRG: ENG	DATE: 13 - SEP - 94	
WFO: ENG	DATE: 4 - 3 - 94	
NEXT HIGHWAY DOC.		DOCUMENT NUMBER SIZE CODE NUMBER D BD M5780-H-3 SCALE 1/1



ARRAY MODULE BLOCK DIAG.

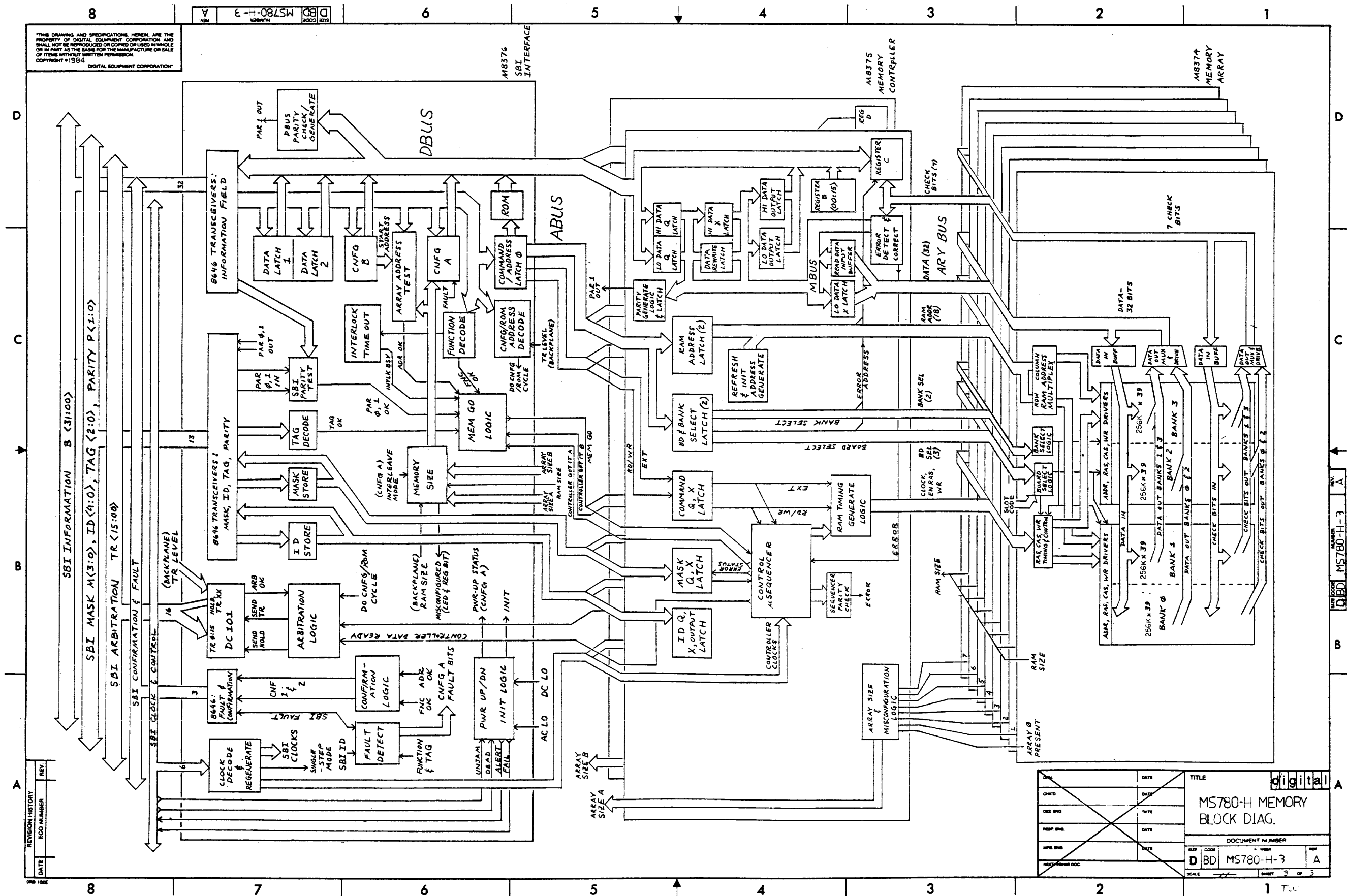
MS 780 H/J SYNDROME DECODE TO BIT-IN-ERROR

ERROR SYNDROME BIT																					
				DO6		0		1		0		1		0		1		0		1	
				DO5		0		0		1		1		0		0		1		1	
				DO4		0		0		0		0		1		1		1		1	
DO0	DO1	DO2	DO3																		
0	0	0	0	*	C16	C8	T	C4	T	T	30										
0	0	0	1		C2	T	T	27	T	5	M	T									
0	0	1	0		C1	T	T	25	T	3	15	T									
0	0	1	1		T	M	13	T	23	T	T	M									
0	1	0	0		CO	T	T	24	T	2	M	T									
0	1	0	1		T	I	12	T	22	T	T	M									
0	1	1	0		T	M	10	T	20	T	T	M									
0	1	1	1		16	T	T	M	T	M	M	T									
1	0	0	0		CX	T	T	M	T	M	14	T									
1	0	0	1		T	M	11	T	21	T	T	M									
1	0	1	0		T	M	9	T	19	T	T	31									
1	0	1	1		M	T	T	29	T	7	M	T									
1	1	0	0		T	M	8	T	18	T	T	M									
1	1	0	1		17	T	T	28	T	6	M	T									
1	1	1	0		M	T	T	26	T	4	M	T									
1	1	1	1		T	Ø	M	T	M	T	T	M									

* - NO ERRORS DETECTED
NUMBERS - NUMBER OF THE SINGLE BIT-IN-ERROR
T - TWO ERRORS DETECTED
M - THREE OR MORE ERRORS DETECTED

REVISION HISTORY		REV.	DATE
ECO NUMBER	INT REL	A	
DATE			

DATE	DATE	TITLE	digital
CHKD.	DATE	MS780-H MEMORY BLOCK DIAG.	
DES. ENL.	DATE	DOCUMENT NUMBER	
PREP. ENL.	DATE	SIZE	CODE
APP. ENL.	DATE	D	BD
NEXT NUMBER DOC	DATE	MS780-H-3	A
SCALE		SHEET 2 OF 3	



[illegible]

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REV.	A	NUMBER	7019729-0-1	SIZE	K	CODE	WL	2	1
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REVISIONS	REV.	
	CHANGE NO.	
	CHK	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MS780-E		PARTS LIST		
DRN. <i>Thomson</i>	DATE 9/2/82	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D <i>M. Baptista</i>	DATE 10/2/82			
ENG. <i>Jim Stoddard</i>	DATE			
PROJ. ENG. <i>Jim Stoddard</i>	DATE			
PROD. <i>Ed Ball</i>	DATE 1-19-83			
NEXT HIGHER ASSEMBLY		TITLE WIRE LIST (MEMORY)		
E-IA-7019729-0-0				
SCALE <i>1:1</i>				
SHEET 1 OF 1				
SIZE		CODE	NUMBER	REV.
K		WL	7019729-0-1	A
DIST.				

AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
				00	
1	1	E-MD-5015031-0-0	5015031-00	DRILL & ETCH BD	1
2	2	C-MD-7417867-0-0	7417867-00	MEM MOUNTING BAR	3
3	3	D-MD-7409259-0-0	7409259-00	SUPPORT, LOGIC FRAME SIDE	REF
4	4	K-WL-7019729-0-1	7019729-00	BACKPLANE ASSY MEMORY	REF
5	5	BLANK		*** THIS ITEM IS NOT USED ***	-
6	6		1210258-01	CONN,CARD 288PIN SLOTTED OPEN EN	15
7	7		1214315-00	PCB,HEADER 20PIN(1X20).100CC STR	2
8	8		1212297-01	MATE-N-LOK 04PIN(1X04).250CC HDR	1
9	9		1212297-06	MATE-N-LOK 12PIN(2X06).250CC HDR	1
10	10		1212297-00	MATE-N-LOK 02PIN(1X02).250CC HDR	1
11	11		1212297-03	MATE-N-LOK 03PIN(1X03).250CC HDR	2
12	12		9009149-00	PIN,STAKNG 0.0250DX0.345LG SQUAR	6
13	13		9006210-06	SCREW,MACH FILL PHIL	8- 30
14	14	BLANK		*** THIS ITEM IS NOT USED ***	-
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-
17	17	BLANK		*** THIS ITEM IS NOT USED ***	-
18	18	BLANK		*** THIS ITEM IS NOT USED ***	-
19	19	BLANK		*** THIS ITEM IS NOT USED ***	-
20	20		9105740-44	WIRE(WRAP) 30AWG KYNAR UL14	A/R
21	21	A-DC-7411881-0-0	7411881-01	DECAL	1
22	22	BLANK		*** THIS ITEM IS NOT USED ***	-
23	23	BLANK		*** THIS ITEM IS NOT USED ***	-
24	24		9000001-07	STANDOFF,MALE/FEMALE HEX	8-32 4
25	25	B-MD-7420279-0-0	7420279-00	SLEEVE,INSULATOR	4
26	26		9006713-00	WASHER,FLAT NYLON	8
27	27		9006037-01	SCREW,MACH PAN PHIL	8- 4
28	28		9009321-00	LOCK TITE, SCREW LOCK, 10CC PER	A/R
29	29	BLANK		*** THIS ITEM IS NOT USED ***	-
30	30		1218396-00	PCB,HEADER 40PIN(2X20).100CC STR	12

REVISION HISTORY			BASIC PART NO: 7019729			DRN: A.RUSZCZYK			DATE: 13-AUG-82			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	T.MCCULLOUGH	DATE:	13-AUG-82	TITLE PARTS LIST						
	INITIAL	A	SECTION VARIATION INDEX					BACKPLANE ASSY (MS780-E MEMORY)						
			[A] 00											
			[B]	DES.ENG.:	L.DERENNE	DATE:	13-AUG-82							
			[C]	RESP.ENG.:	J.OBARD	DATE:	13-AUG-82	DOCUMENT NUMBER						
			[D]					SIZE	CODE	NUMBER	REV			
			[E]	MFG.ENG.:	E.BALL	DATE:	26-JAN-83	K	PL	7019729-0-DBP	A			
			[F]	ASSEMBLY NUMBER:	E-IA-7019729-0-0	TOP DOCUMENT NUMBER:		FILE NAME:		Z4503A.PLS	EDIT #	15		
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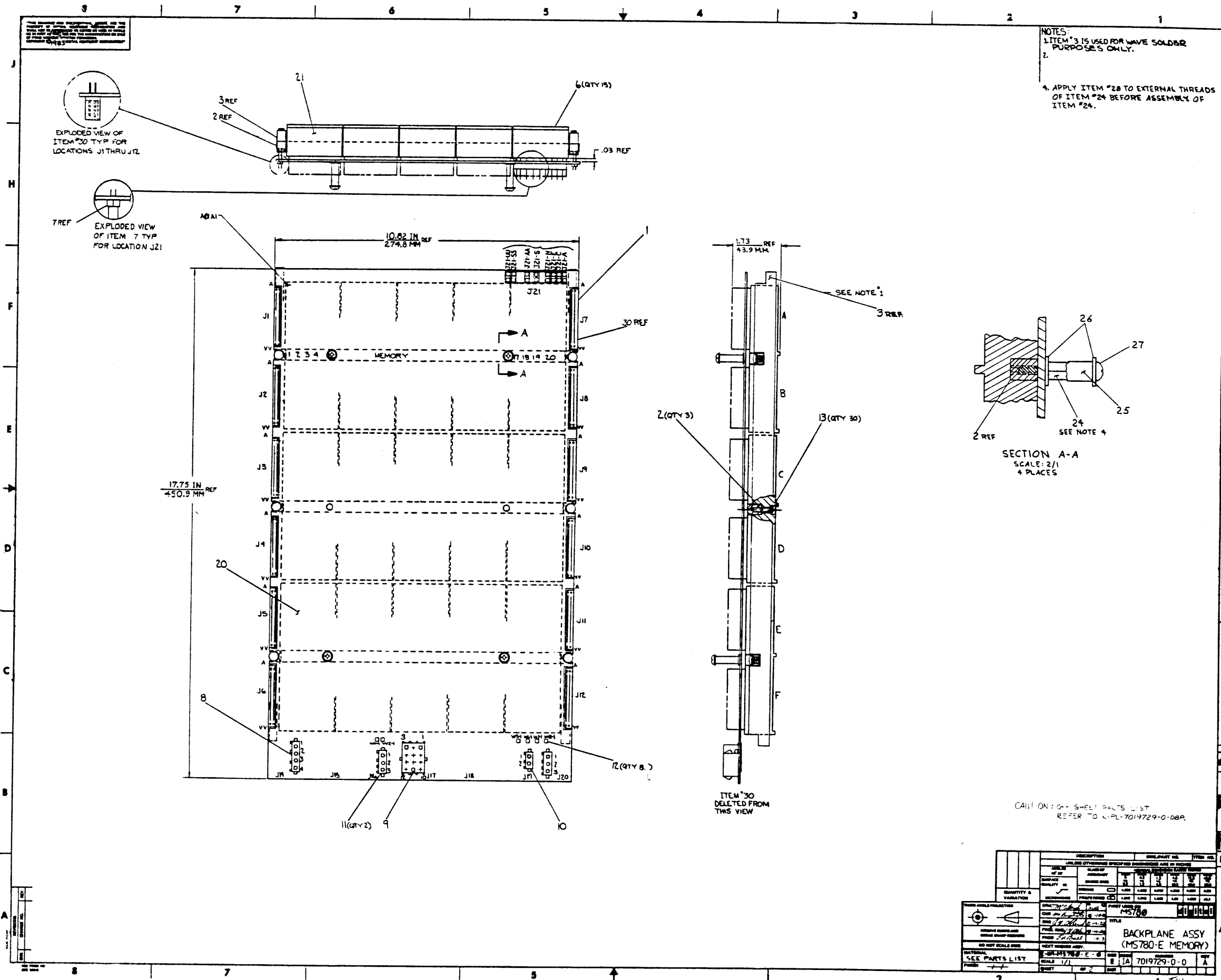
AUTOMATED BY PRTLST.3P(44)

PARTS LIST

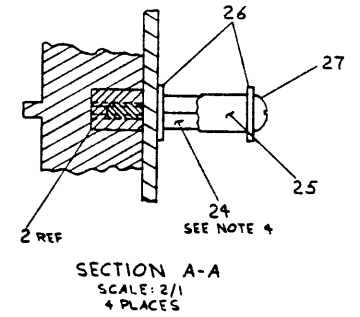
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31		9905016-04	FOLDER,DIE CUT,SELF LOCK W/FOAM	1
32	32		9107450-66	WIRE, 24AWG(07/32)IPVC 150V	2

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							BACKPLANE ASSY (MS780-E MEMORY)		K	PL	7019729-0-DBP	A



NOTES:
1. ITEM #3 IS USED FOR WAVE SOLDER PURPOSES ONLY.
2.
4. APPLY ITEM #28 TO EXTERNAL THREADS OF ITEM #24 BEFORE ASSEMBLY OF ITEM #24.



CAUTION: OFF-SHEET PARTS LIST
REFER TO CPL-7019729-0-DBR

QUANTITY & VARIATION		DESCRIPTION		PART NUMBER		REVISION	
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REWORK INSTRUCTIONS
WIRE ADDS SIDE I
0-1 FROM W51 TO E001K1 24 GA.
0-2 FROM W61 TO E011K1 24 GA.
0-3 FROM J021A TO F011L1 30 GA.

REVISION HISTORY		
DATE	ECO NUMBER	REV

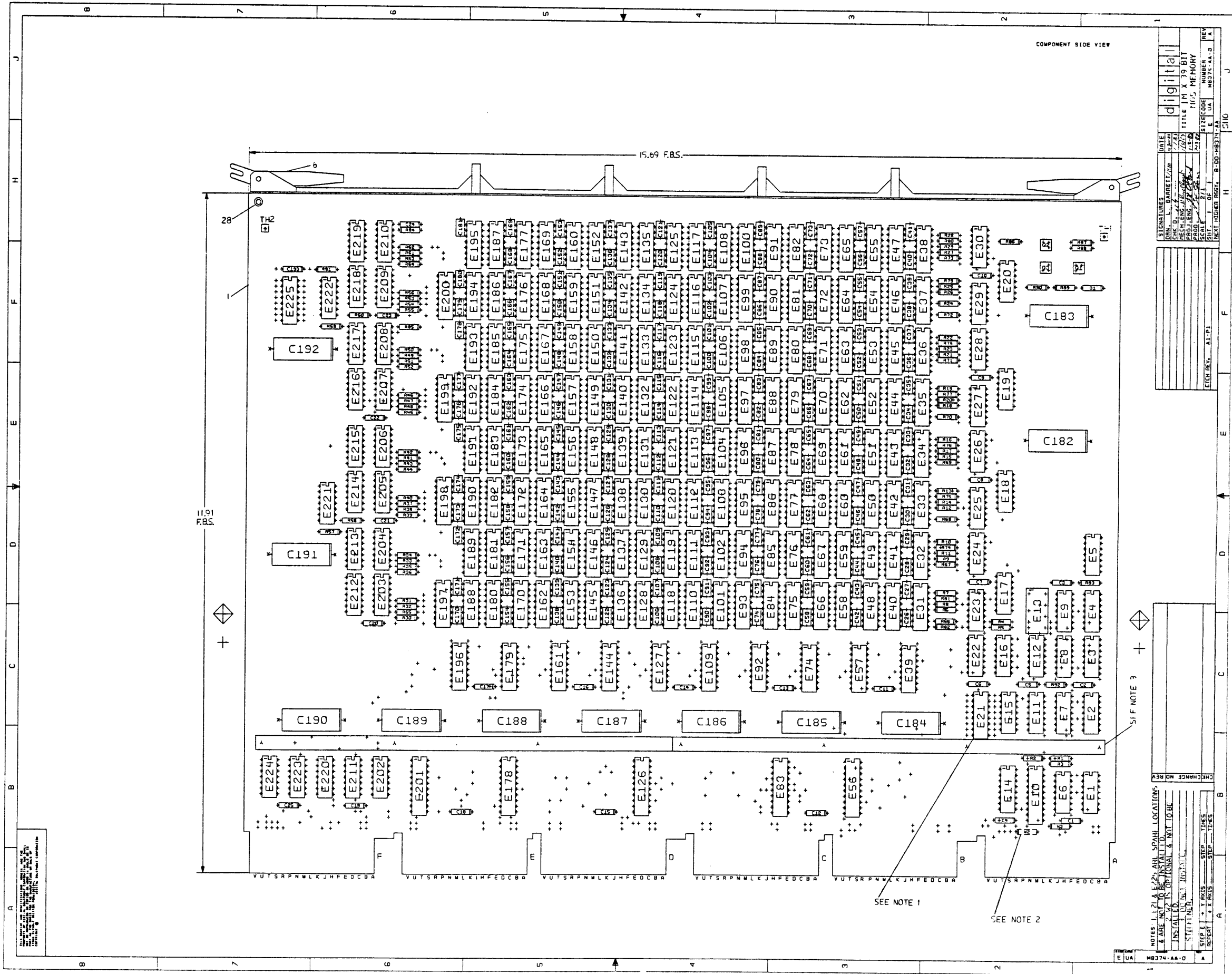
DOCUMENT NUMBER	
REV	NUMBER
E	7019729-0-0
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SCALE 1" = 1" SHEET 2 OF 2

TITLE BACKPLANE ASSY (MS780-E MEMORY)

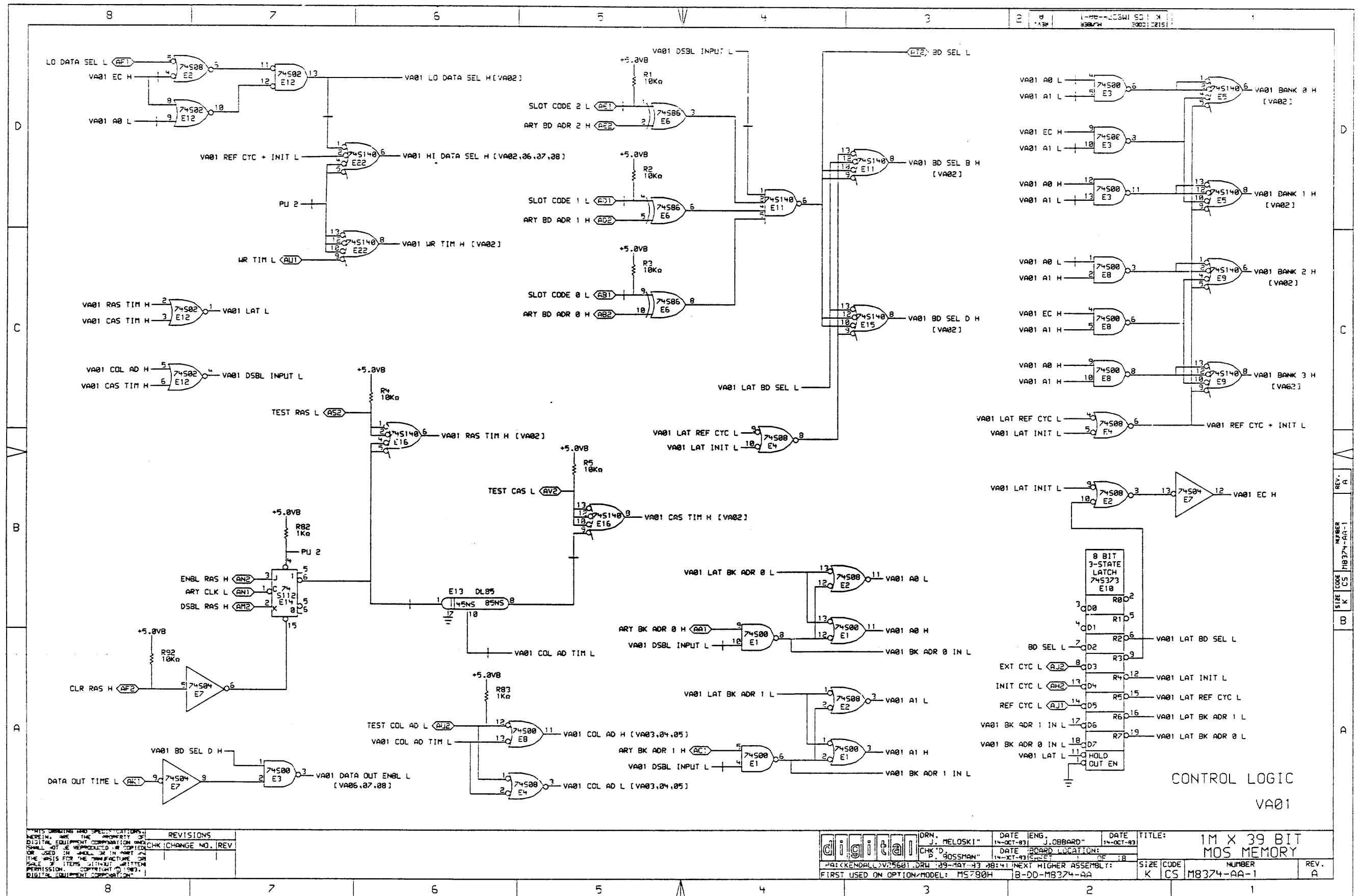
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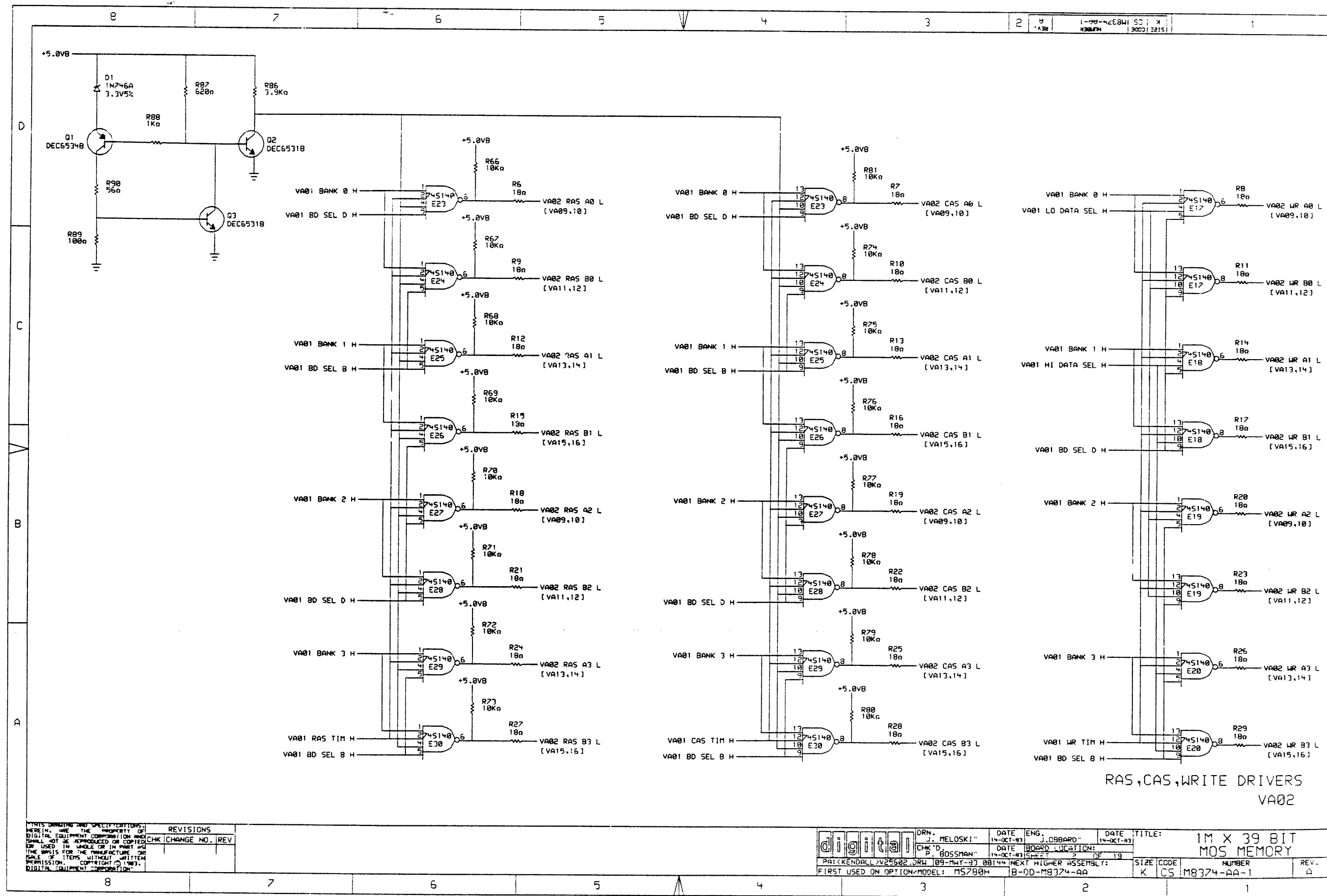
J H F E D C B A



SIGNATURES		DATE	
DRN: L. BARRETT/JM	DATE	11/24	
CHK. D. 11/24	DATE	11/24	
RECH. ENG. 11/24	DATE	11/24	
PROD. 11/24	DATE	11/24	
SCALE: 2/1	DATE	11/24	
SHEET 1 OF 1	DATE	11/24	
INSTR. HOOKER 1951, B-00-48274-AA	DATE	11/24	
ETCH REV. A1-P1	DATE	11/24	
TITLE		1M X 39 BIT	
SIZE		16/5 MEMORY	
NUMBER		48274-AA-D	
REV		A	

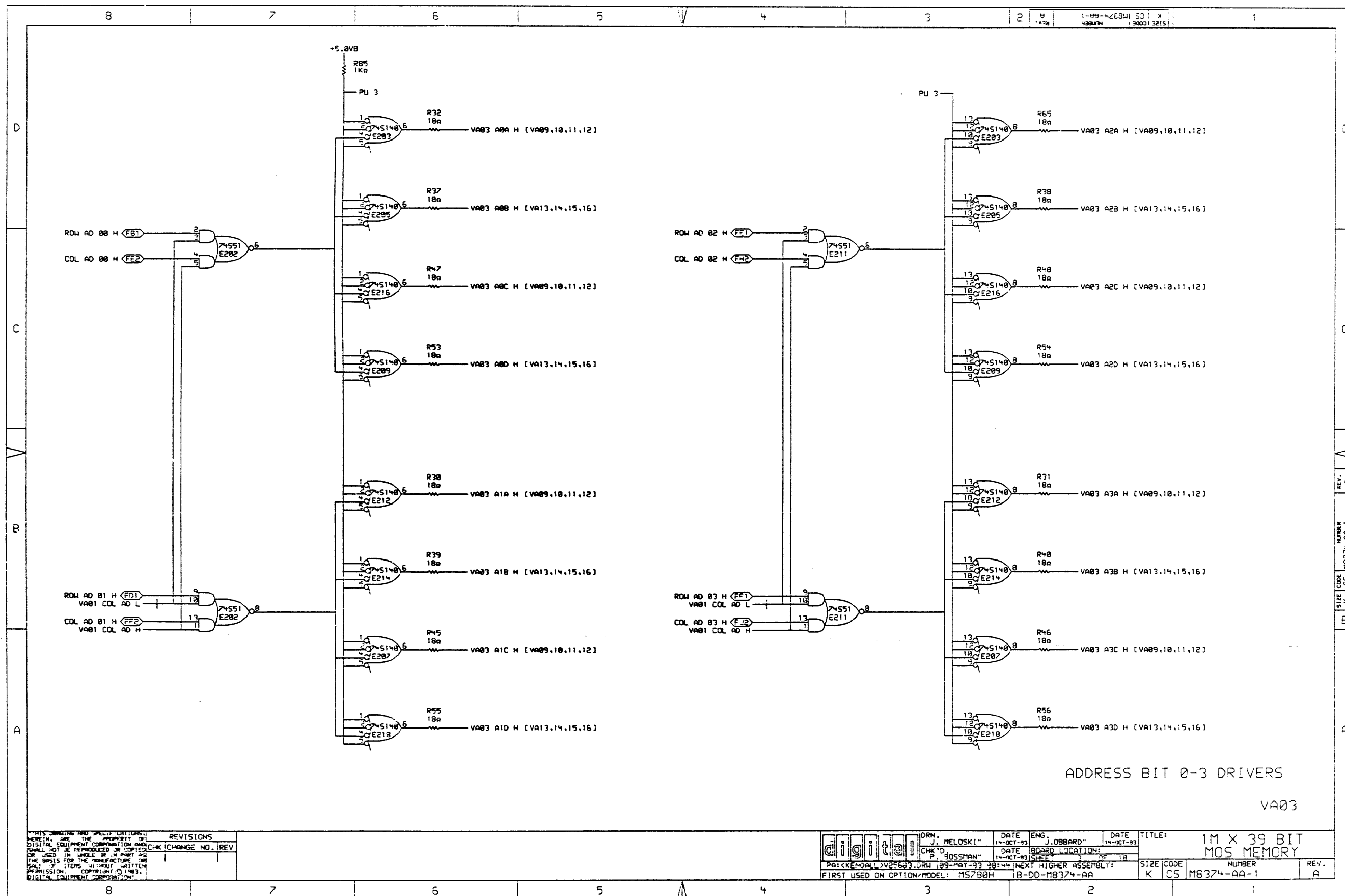
NOTES: 1. 1, 2, & 3-22-41L SPARE LOCATION. 2. ARE NOT TO BE INSTALLED. 3. UNLESS INDICATED, SIF FINISH.	
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STEP 198	TIME
STEP 199	TIME
STEP 200	TIME
STEP 201	TIME
STEP 202	TIME
STEP 203	TIME
STEP 204	TIME
STEP 205	TIME
STEP 206	TIME
STEP 207	TIME
STEP 208	TIME
STEP 209	TIME
STEP 210	TIME
STEP 211	TIME
STEP 212	TIME
STEP 213	TIME
STEP 214	TIME
STEP 215	TIME
STEP 216	TIME
STEP 217	TIME
STEP 218	TIME
STEP 219	TIME
STEP 220	TIME
STEP 221	TIME
STEP 222	TIME
STEP 223	TIME
STEP 224	TIME
STEP 225	TIME





REVISIONS		
CHK	CHANGE NO.	REV

digital DRN. J. MELOSKI CHK'D. P. BOSSMAN PAI: KENDALL V25502 DRW: 09-MAY-93 08:44 NEXT HIGHER ASSEMBLY: B-DD-M8374-AA	DATE: 14-OCT-93	ENG. J. OBBARD	DATE: 14-OCT-93	TITLE: 1M X 39 BIT MOS MEMORY
	DATE: 14-OCT-93	DATE: 14-OCT-93	DATE: 14-OCT-93	DATE: 14-OCT-93
FIRST USED ON OPTION/MODEL: MS780H	SIZE: K	CODE: CS	NUMBER: M8374-AA-1	REV. A



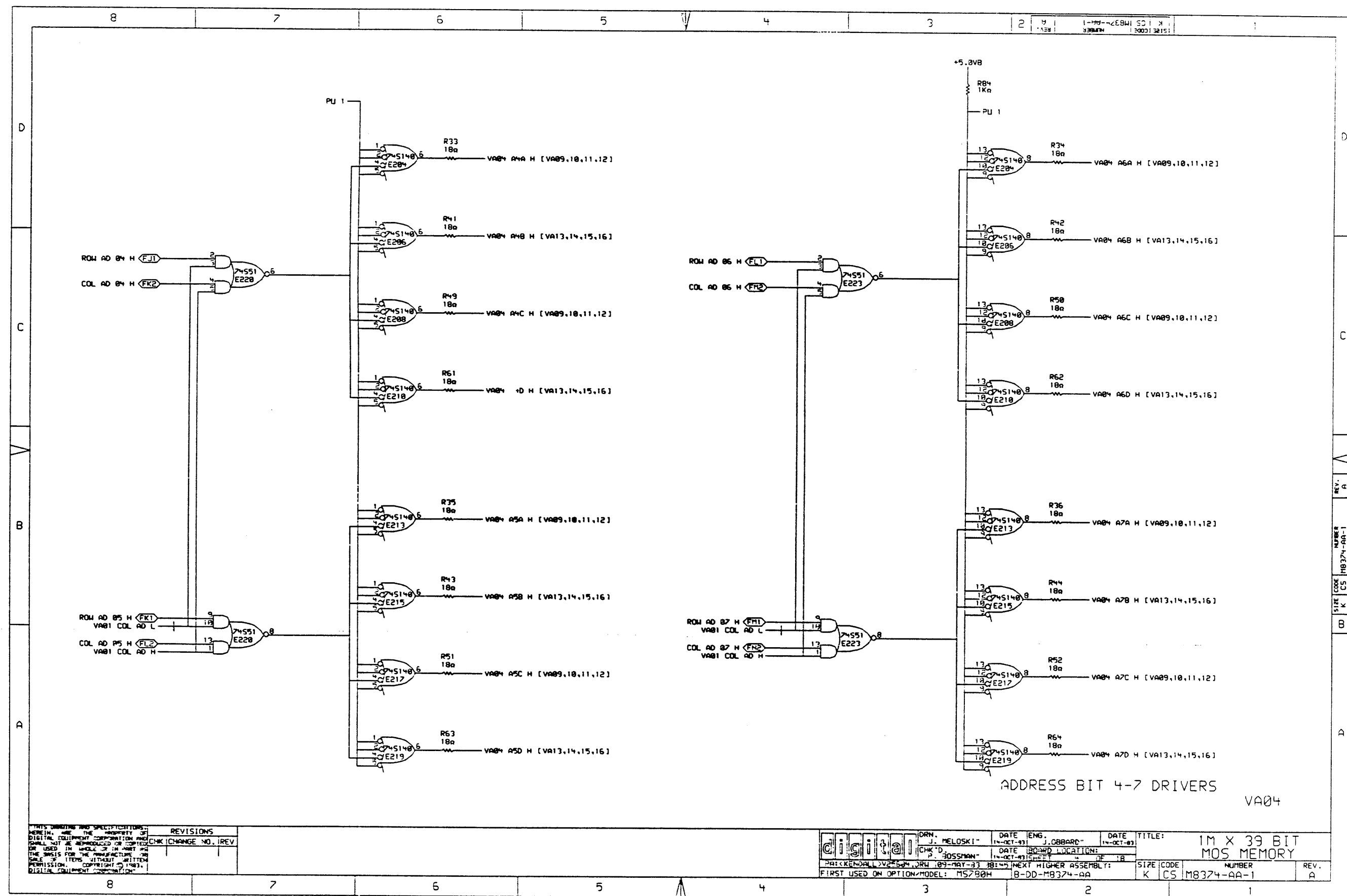
ADDRESS BIT 0-3 DRIVERS

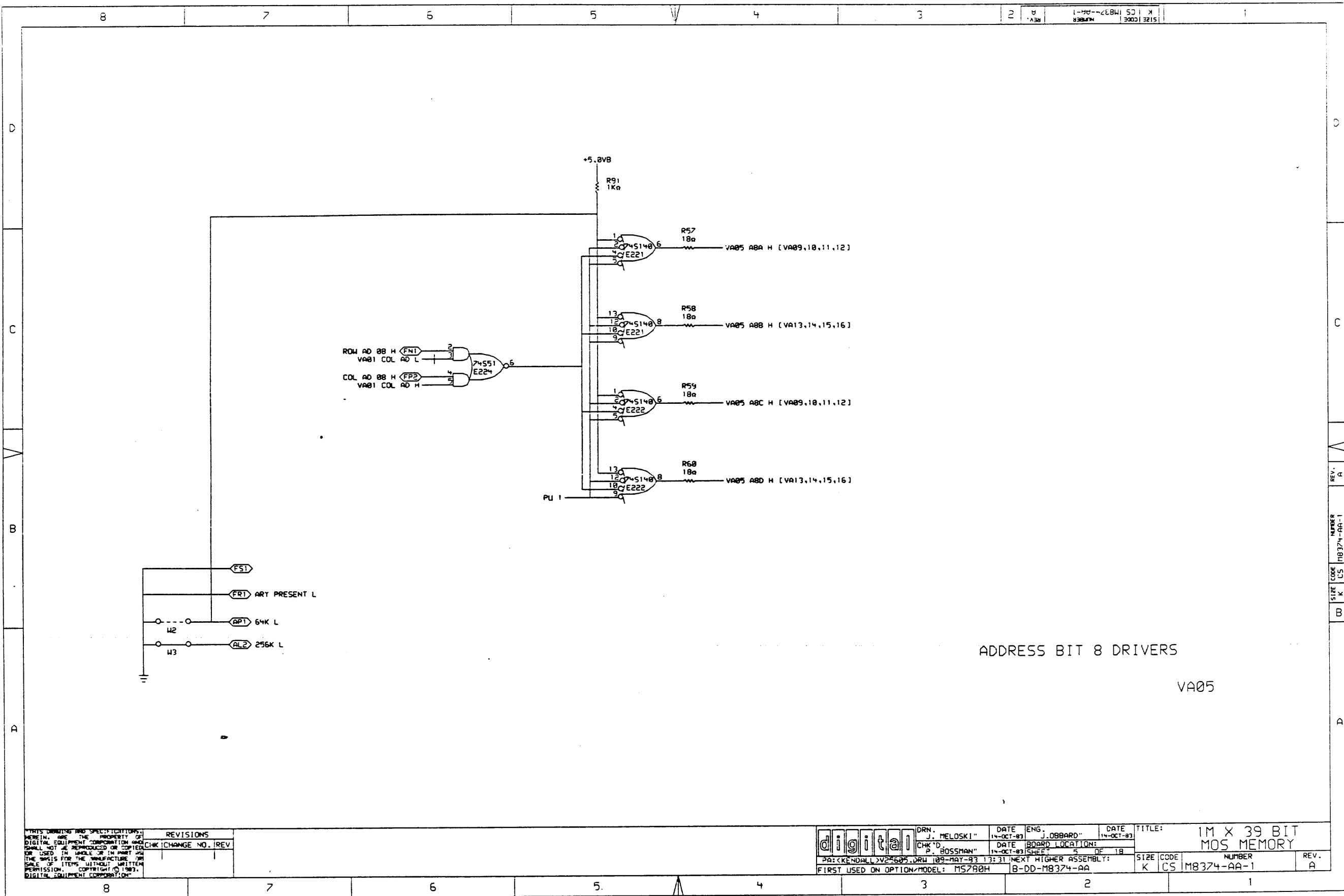
VA03

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REVISIONS	
CHK	CHANGE NO. REV

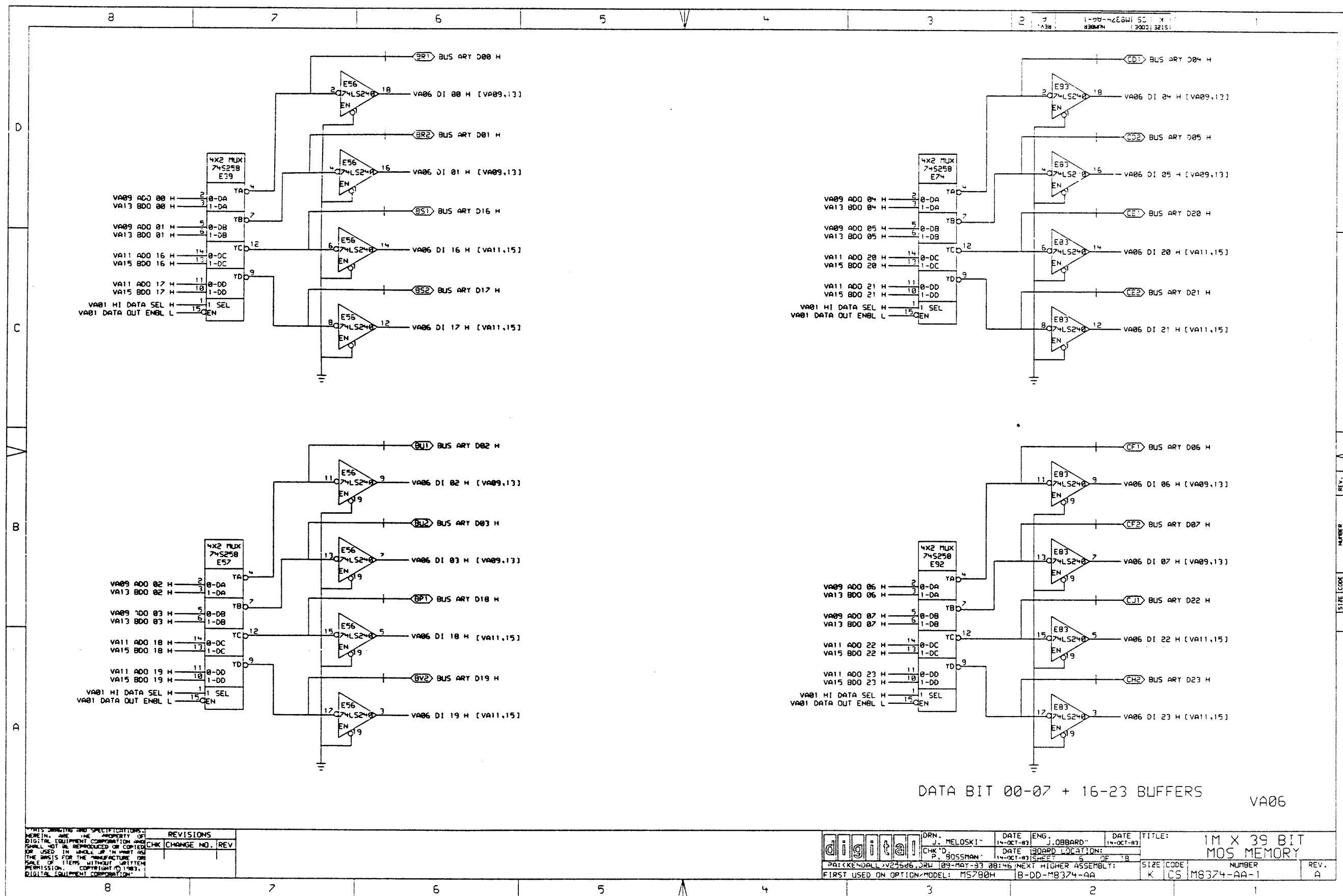
digital	DRN. J. MELOSKI	DATE 14-OCT-83	ENG. J. OBBARD	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	CHK'D P. BOSSMAN	DATE 14-OCT-83	DATE 14-OCT-83	DATE 14-OCT-83	
BOARD LOCATION: 3 OF 18					
PA: KEMALL V25603 RW 89-MAY-83 38:44 NEXT HIGHER ASSEMBLY:					
FIRST USED ON OPTION/MODEL: MS790H 1B-DD-M8374-AA					
SIZE	CODE	NUMBER		REV.	
K	CS	M8374-AA-1		A	





ADDRESS BIT 8 DRIVERS

VA05

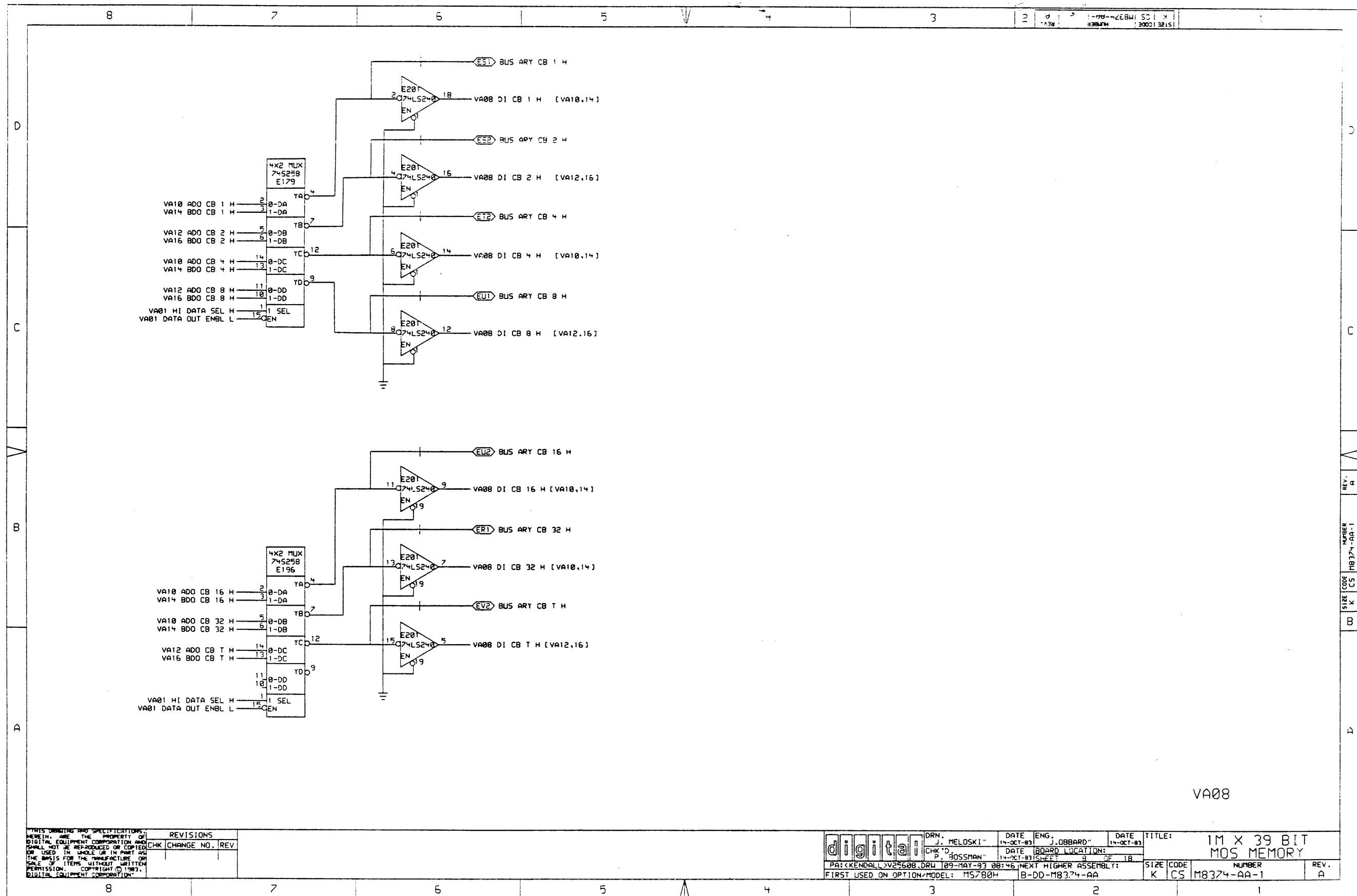


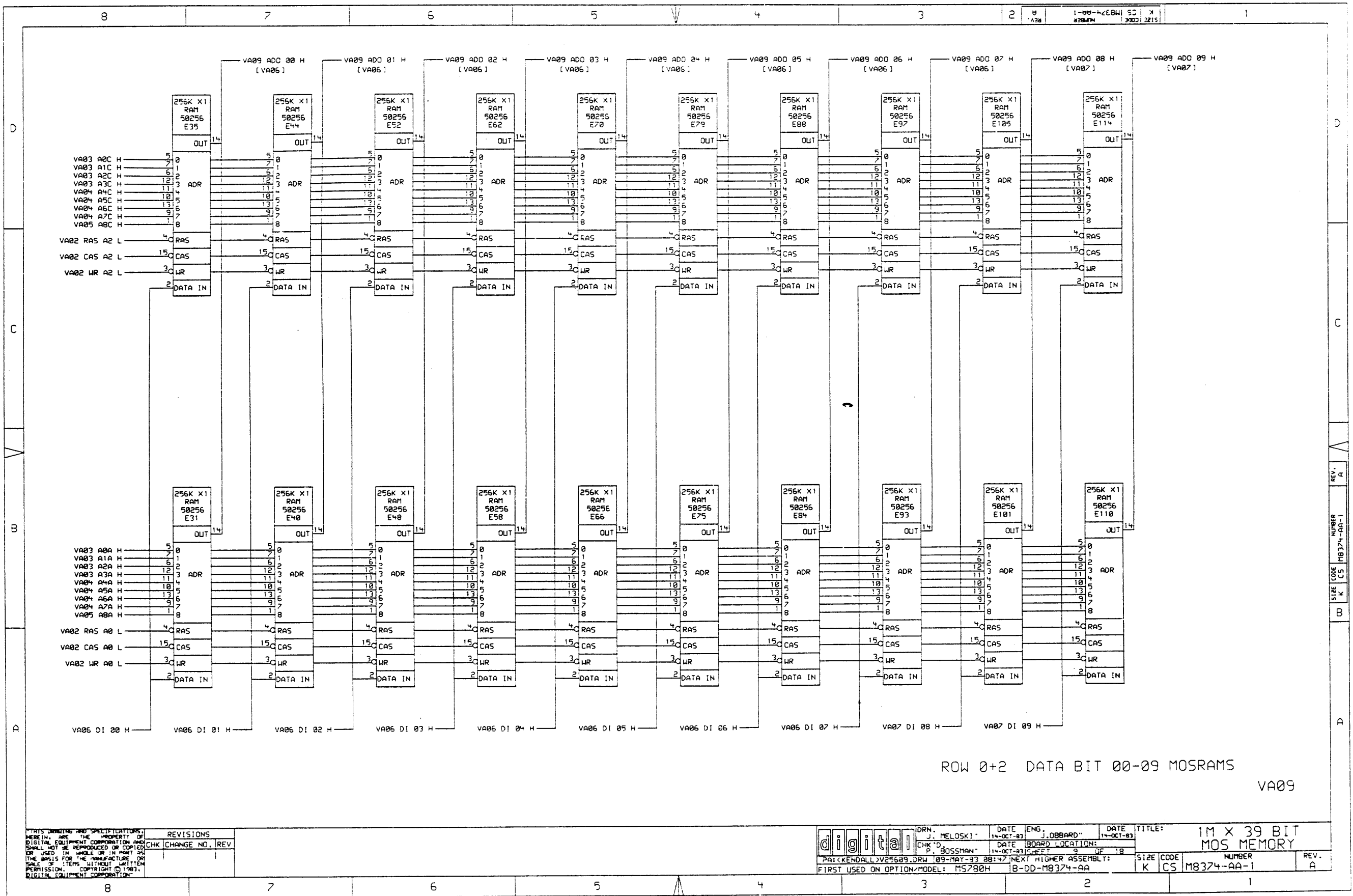
DATA BIT 00-07 + 16-23 BUFFERS

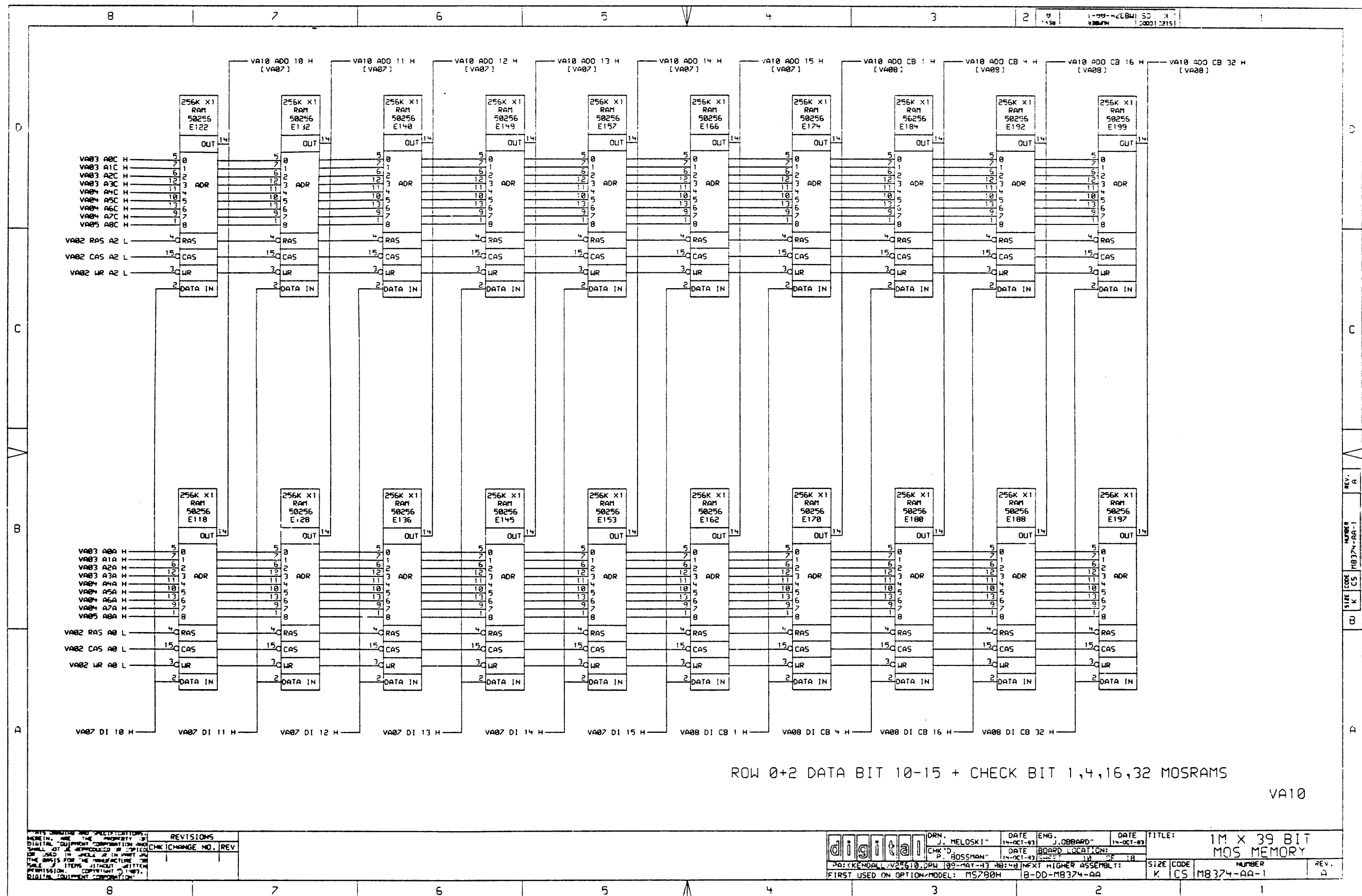
VA06

REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. J. MELOSKI	DATE 14-OCT-83	ENG. J. OBBARD	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	CHK'D P. BOSSMAN	DATE 11-OCT-83	DATE 11-OCT-83	SHEET 5 OF 8	SIZE CODE K CS M8374-AA-1
FIRST USED ON OPTION/MODEL: MS780H		NEXT HIGHER ASSEMBLY: B-DD-M8374-AA		REV. A	





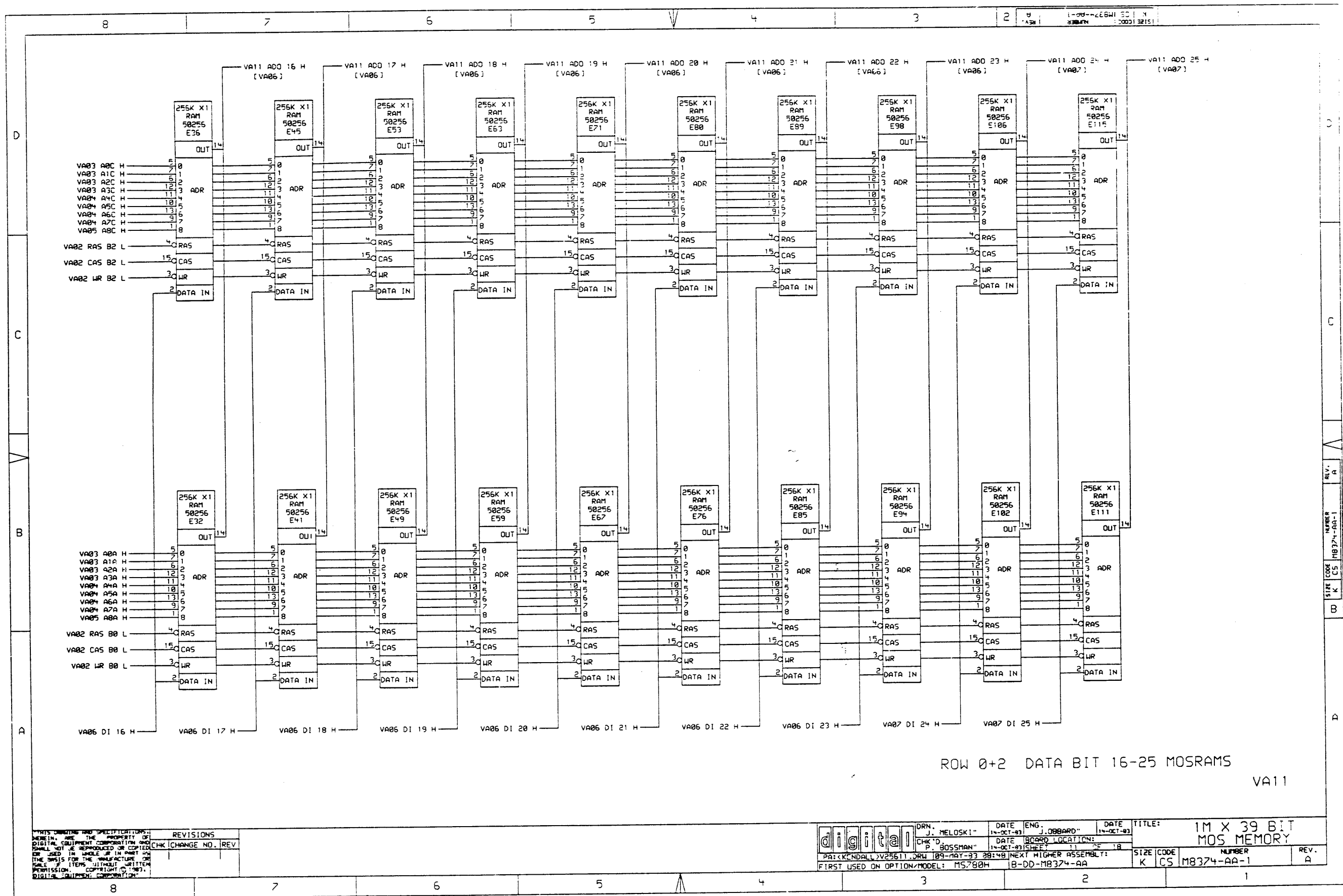


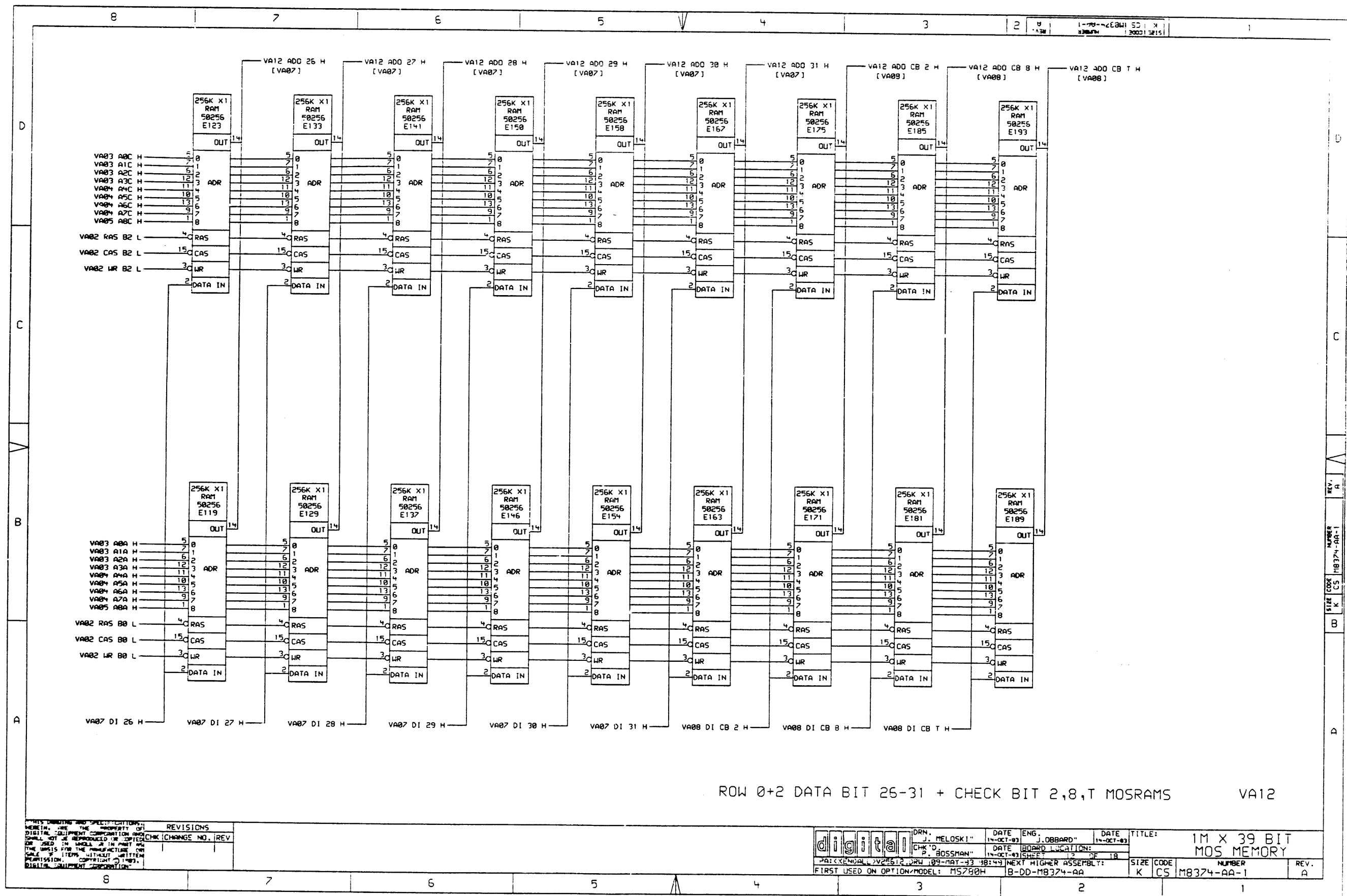
ROW 0+2 DATA BIT 10-15 + CHECK BIT 1,4,16,32 MOSRAMS

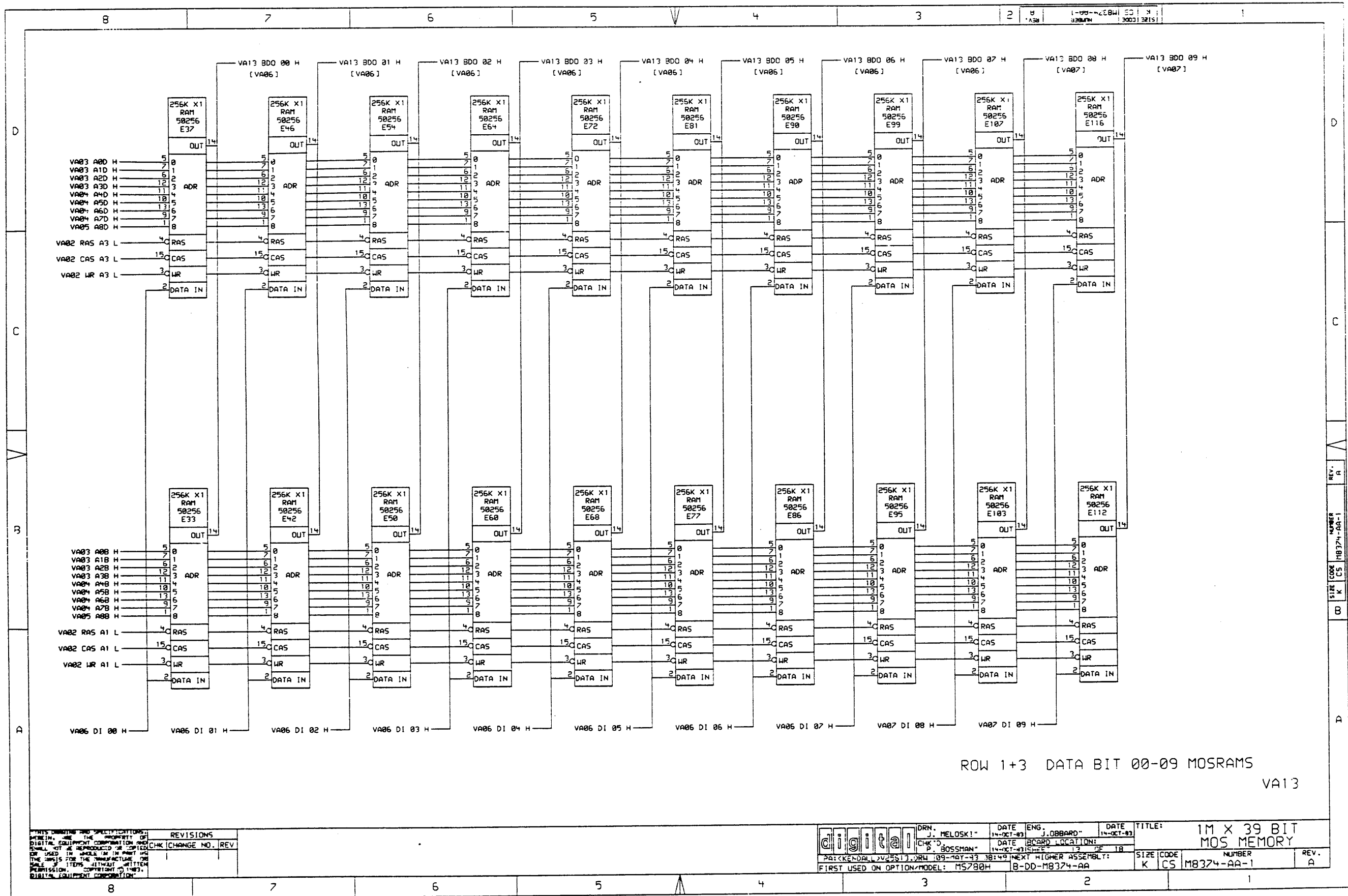
VA10

REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. J. MELOSKI"	DATE 14-OCT-83	ENG. J. OBBARD"	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	CHK'D. P. BOSSHAN"	DATE 14-OCT-83	BOARD LOCATION: 1A OF 1B		
PA:CKENDALL.V2510.DPW 09-MAY-83 08:14:48 NEXT HIGHER ASSEMBLY:					
FIRST USED ON OPTION/MODEL: M5280H B-DD-MB374-AA					
SIZE	CODE	NUMBER		REV.	
K	CS	M8374-AA-1		A	

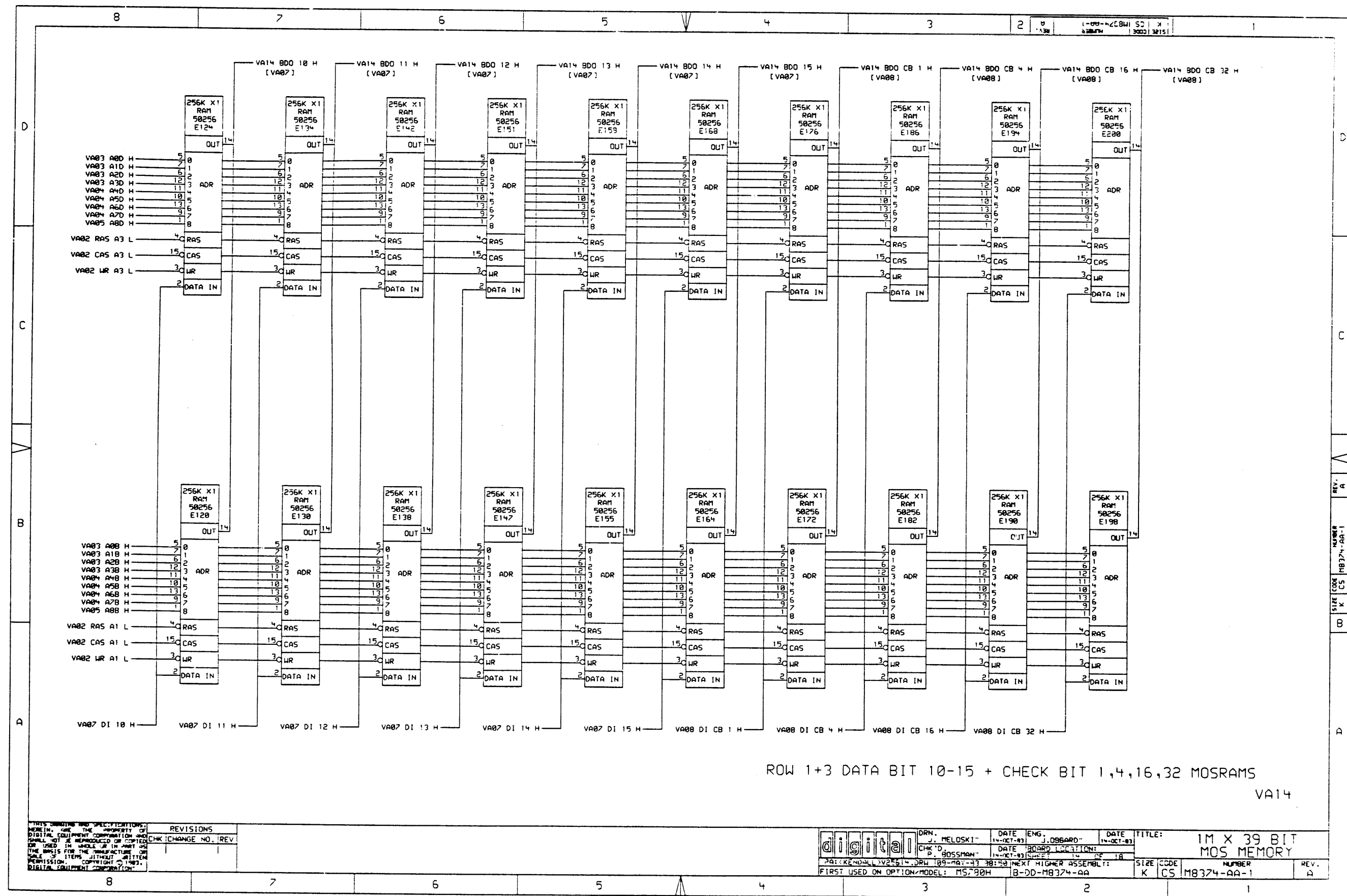






REVISIONS	
CHK	CHANGE NO. REV

digital DRN. J. MELOSKI CHK'D P. BOSSMAN PG: KENDAL JV2513.DRW 109-107-13 18:49 FIRST USED ON OPTION/MODEL: MS780H	DATE 14-OCT-83	ENG. J. OBBARD	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	DATE 14-OCT-83	DATE 14-OCT-83	DATE 14-OCT-83	DATE 14-OCT-83
NEXT HIGHER ASSEMBLY: B-DD-M8374-AA		SIZE CODE K CS		NUMBER M8374-AA-1
REV. A		REV. A		REV. A



ROW 1+3 DATA BIT 10-15 + CHECK BIT 1,4,16,32 MOSRAMS

VA14

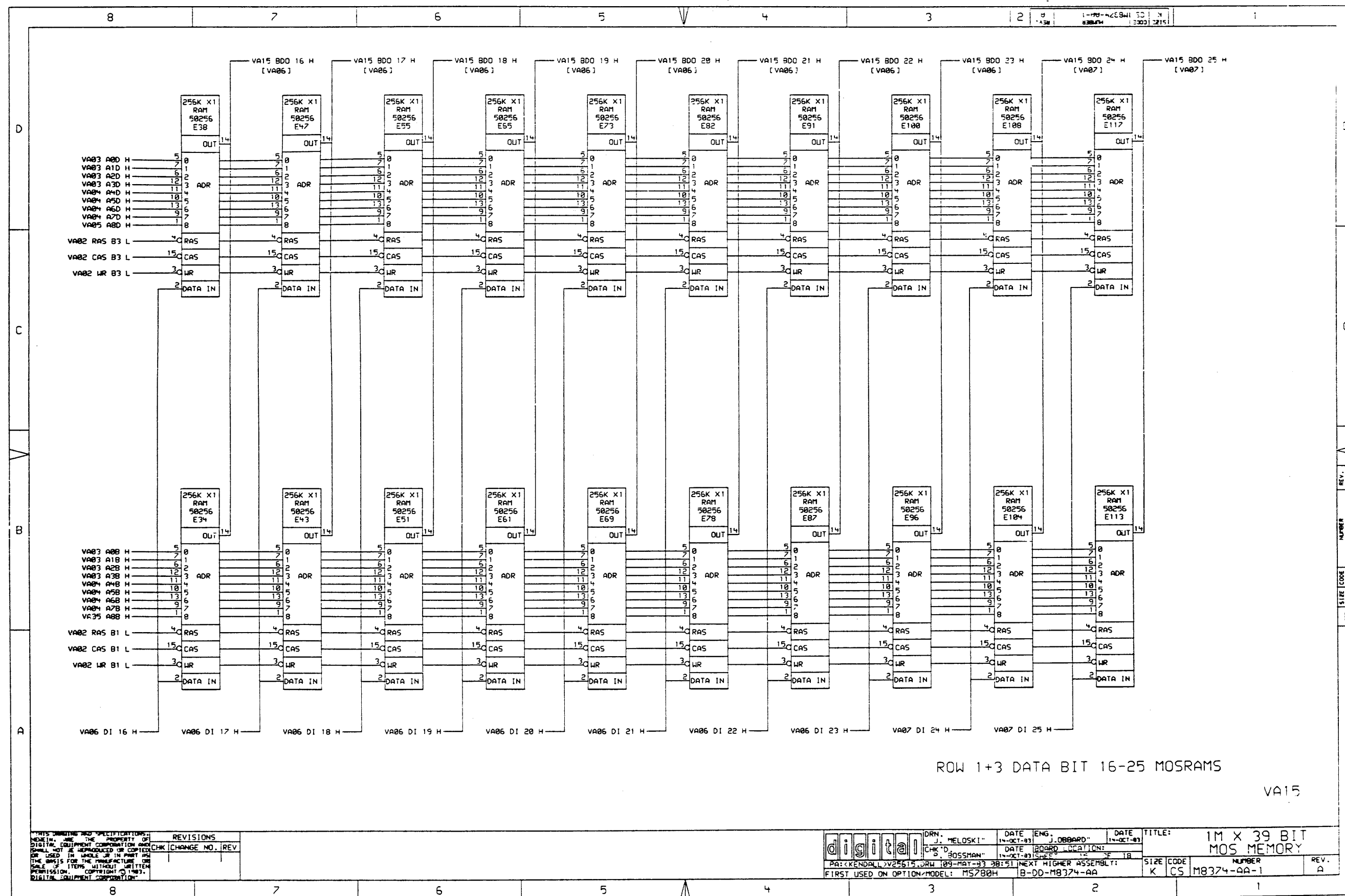
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REVISIONS
CHK CHANGE NO. REV

digital DRN. J. MELOSKI DATE ENG. J. OGBARD DATE TITLE: 1M X 39 BIT MOS MEMORY
CHK'D. P. BOSSMAN DATE BOARD LOCATION: 14-OCT-83
PARTS KENDALL V2511-DRW 189-MAY-83 38:50 NEXT HIGHER ASSEMBLY: 14-OCT-83 SHEET 14 OF 18
FIRST USED ON OPTION/MODEL: MS790H B-DD-M8374-AA

SIZE CODE NUMBER
K CS M8374-AA-1

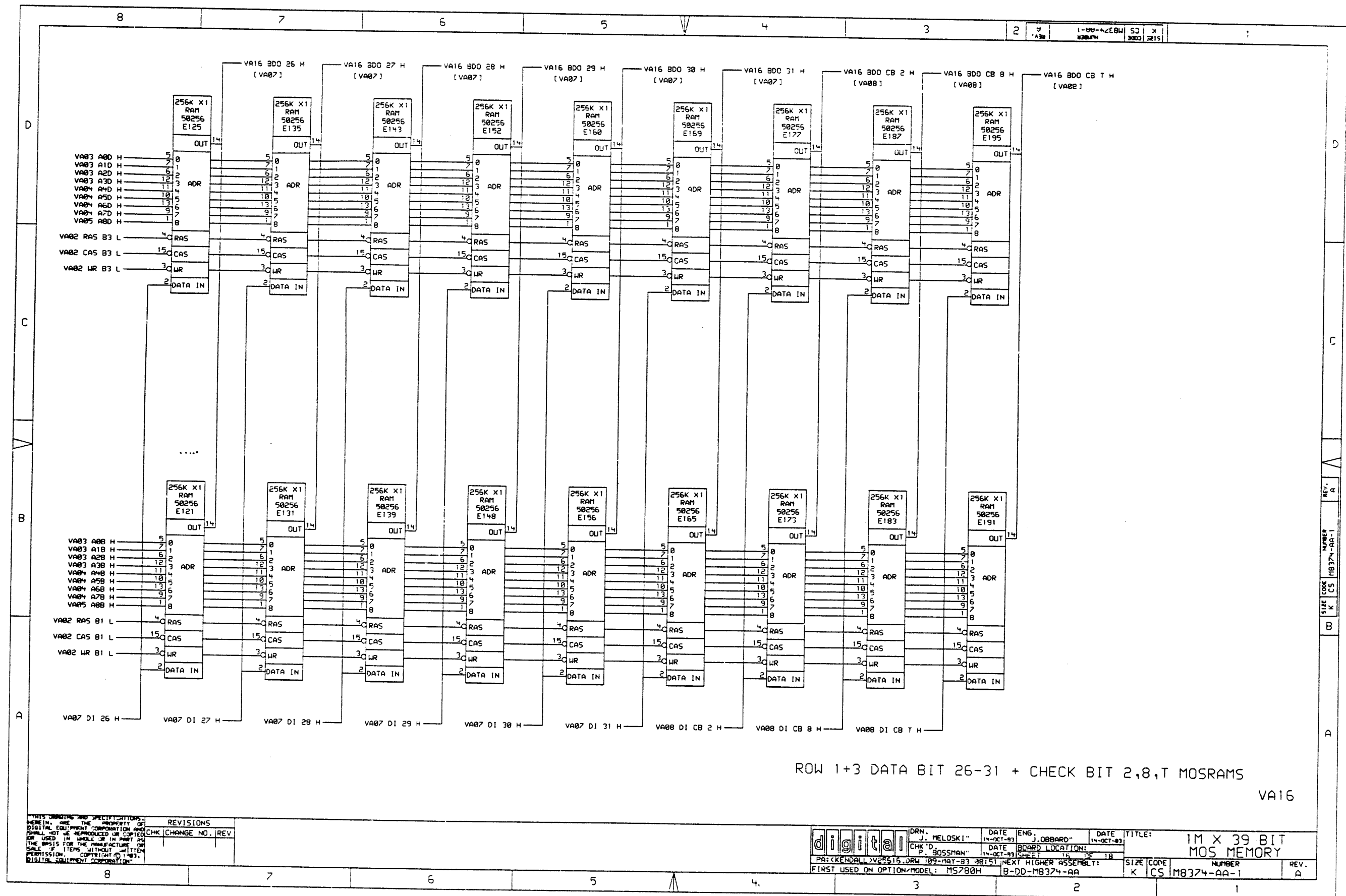
REV. A

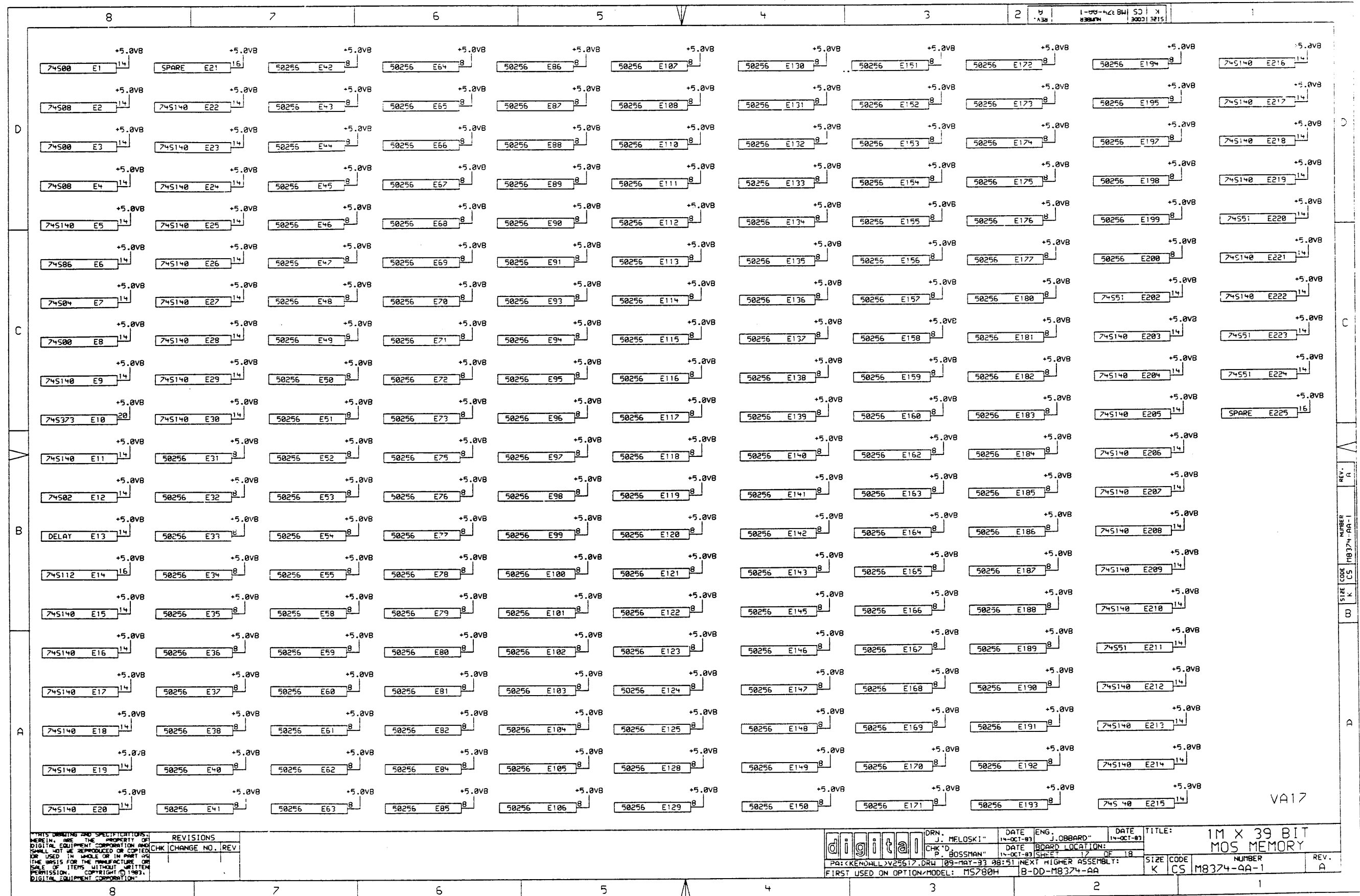


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REVISIONS	
CHK	CHANGE NO. REV

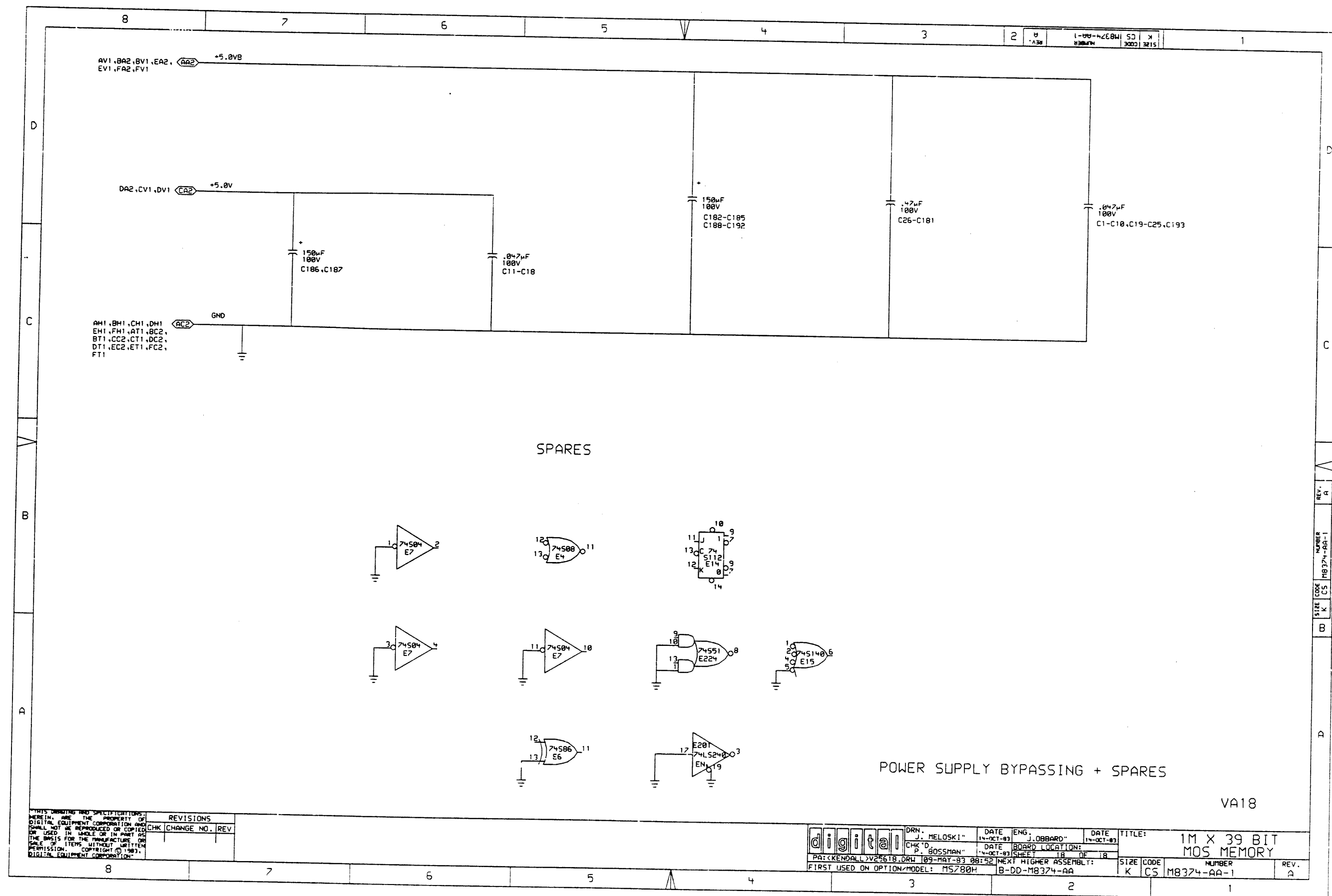
digital	DRN. J. MELOSKI	DATE 14-OCT-83	ENG. J. OBBARD	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	CHK. S. BOSSMAN	DATE 14-OCT-83	DATE 14-OCT-83	DATE 14-OCT-83	DATE 14-OCT-83
PA: KENDALL V25615.DRW 189-MAY-83 38:51 NEXT HIGHER ASSEMBLY: B-DD-M8374-AA			SIZE CODE K CS	NUMBER M8374-AA-1	REV. A





REVISIONS
CHK CHANGE NO. REV

digital	DRN. J. MELOSKI	DATE 14-OCT-83	ENG. J. LOBBARD	DATE 14-OCT-83	TITLE: 1M X 39 BIT MOS MEMORY
	CHK'D P. BOSSMAN	DATE 14-OCT-83	BOARD LOCATION: 17 OF 18	SIZE CODE K	NUMBER CS M8374-AA-1
	PA: KENDALL V25617.DRW 109-MAY-83 08:51 NEXT HIGHER ASSEMBLY: B-DD-M8374-AA		REV. A		



LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
						AC	AF	AH	
						VARIATION REVISION LEVEL:			
1	1	B-DD-5016221-0	5016221-00		CIRCUIT DRILL & ETCH	1	1	1	
2	2		1010279-01		.47 MFD 25V 20% CER	156	156	156	C26-C181
3	3		1012084-03		150 MFD 15V +75-10% AL EL	11	11	11	C182-C192
4	4		1012784-00		.047 MFD 50V +80-20% CER	26	26	26	C1-C25,C193
5	5		1104860-00		VZ= 3.3 5% 400 MW 1N746A	1	1	1	D1
6	6		1216988-02		HANDLE,MODULE,HEX TWO EJECTORS	1	1	1	
7	7		1300229-00		100.0 .25 W 5.0 % CF	1	1	1	R89
8	8		1300365-00		1.0 K .25 W 5.0 % CF	6	6	6	R82-R85,R88,R91
9	9		1300444-00		3.90 K .25 W 5.0 % CF	1	1	1	R86
10	10		1300479-00		10.0 K .25 W 5.0 % CF	22	22	22	R1-R5,R66-R81,R92
11	11		1302124-00		18.0 .25 W 5.0 % CF	60	60	60	R6-R65
12	12		1302602-00		56.0 .25 W 5.0 % CF	1	1	1	R90
13	13		1303178-00		620.0 .25 W 5.0 % CF	1	1	1	R87
14	14		1503409-00		DEC6534D PNP 310MW SI 40 90	1	1	1	Q1
15	15		1509338-00		DEC6531B NPN 310MW SI 40 90 P	2	2	2	Q2,Q3
16	16		1619656-01		DELAY= 45NS,2TAPS	1	1	1	E13
17	17		1910532-00		74S00 NAND GATE-QUAD 2IN	3	3	3	E1,E3,E8
18	18		1910534-00		74S04 INVERTER GATE-HEX 1I	1	1	1	E7
19	19		1910545-00		74S112 FF-JK DUAL,EDGE TRIG	1	1	1	E14
20	20		1910546-00		74S140 NAND GATE-DUAL 4INPU	36	36	36	E5,E9,E11,E203-E210,E212-E219, CONT E221,E222,E15-E20,E22-E30
21	21		1911712-00		74S51 AND-OR GATE-INVERT D	5	5	5	E202,E211,E220,E223,E224
22	22		1912096-00	DEC	74S86 XOR GATE,QUAD 2IN	1	1	1	E6
23	23		1912388-00		74S02 NOR GATE-QUAD 2IN,PO	1	1	1	E12
24	24		1912389-00		74S08 AND GATE-QUAD 2IN,PO	2	2	2	E2,E4
25	25		1913670-00		74S373 LATCH,8BIT TRANS TRI	1	1	1	E10
26	26		1913777-00		LS240 DRIVER,LINE,OCTAL,T	5	5	5	E56,E83,E126,E178,E201
27	27		1913887-00		74S258 MUX 1 OF 2(QUAD)TRI	10	10	10	E39,E57,E74,E92,E109,E127,E144, CONT E161,E179,E196
28	28		9000024-01		EYELET,ROLLED 0.1210DX0.192	12	12	12	

REVISION HISTORY			BASIC PART NO: M8374		DRN: L.BARRETT		DATE: 06-MAY-83		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: P.BOSSMAN		DATE: 06-MAY-83		TITLE PARTS LIST	
J.O	INITIAL	A	SECTION VARIATION INDEX		DES.ENG: J.OBBARD		DATE: 06-MAY-83		DOCUMENT NUMBER	
N.R	M8374-AA-SH001	B	(A) AC,AF,AH		RESP.ENG.: J.OBBARD		DATE: 06-MAY-83		SIZE!CODE! NUMBER	
			(B)		MFG.ENG.: R.EISNER		DATE: 06-MAY-83		K PL M8374-AA-DBP	
			(C)		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			(D)		E-UA-M8374-AA-0		#B-DD-M8374-AA		Z6998B.PLS	
			(E)						RELEASE DATE: 29-MAY-84	
			(F)						EDIT #	
			(G)						9	
			(H)							
			(I)							
			(J)							
			(K)							
			(L)							
			(M)							
			(N)							

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AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

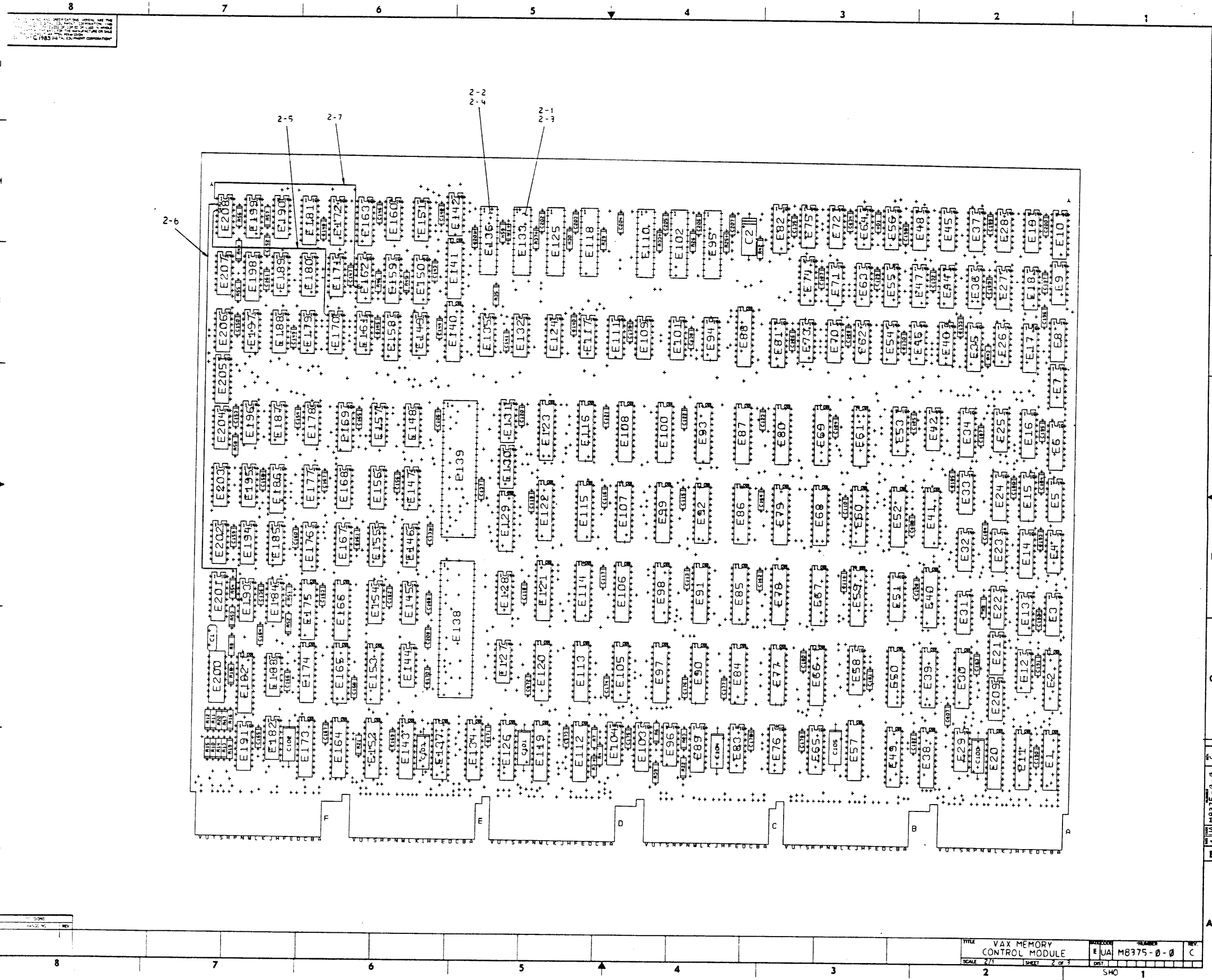
SHEET A2 OF A2

						SHEET A2 OF A2			
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
						AC	AF	AH	
VARIATION REVISION LEVEL:									
29	29		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	1	1	1	W3
30	30		9105740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	A/R	
31	31		2121415-02		81256-15 RAM 256KX1,DYNAMIC 1	156	-	-	
								CONT	E31-E38,E40-E55,E58-E73,E75-E82,
								CONT	E84-E91,E93-E108,E110-E125,
								CONT	E128-E143,E145-E160,E162-E177,
32	32		2121414-02		50256 RAM 256KX1,DYNAMIC 1	-	156	-	E180-E195,E197-E200
								CONT	E31-E38,E40-E55,E58-E73,E75-E82,
								CONT	E84-E91,E93-E108,E110-E125,
								CONT	E128-E143,E145-E160,E162-E177,
								CONT	E180-E195,E197-E200
33	33		7419276-00		*** THIS ITEM IS NOT USED ***			-	
34	34		2121413-02		41256 RAM 256KX1,DYNAMIC 1	-	-	156	E31-E38,E40-E55,E58-E73,E75-E82,
								CONT	E84-E91,E93-E108,E110-E125,
								CONT	E128-E143,E145-E160,E162-E177,
								CONT	E180-E195,E197-E200

- 35 NOTE: 1. M8374-AA IS THE PRIMARY VARIATION OF THE 1M X 39 BIT SYSTEM (NOT A MODULE TYPE).
- 36 NOTE: 2. M8374-AC IS A MODULE TYPE USING FUJITSU 256K MOS DEVICES.
- 37 NOTE: 3. M8374-AF IS A MODULE TYPE USING HITACHI 256K MOS DEVICES.
- 38 NOTE: 4. M8374-AR IS A MODULE TYPE USING WESTERN ELECTRIC 256K MOS DEVICES.
- 39 NOTE: 5. THIS ASSEMBLY CONTAINS DEVICES SENSITIVE TO ELECTROSTATIC DISCHARGE.
- 40 NOTE: MAINTAIN ANTI-STATIC PROTECTION PROCEDURES PER DEC STD 067.
- 41 NOTE: 6.M8374-AH IS A MODULE TYPE USING NEC 256K MOS DEVICES.
- 42 NOTE: THIS IS REPLACING M8374-AR VARIATION.

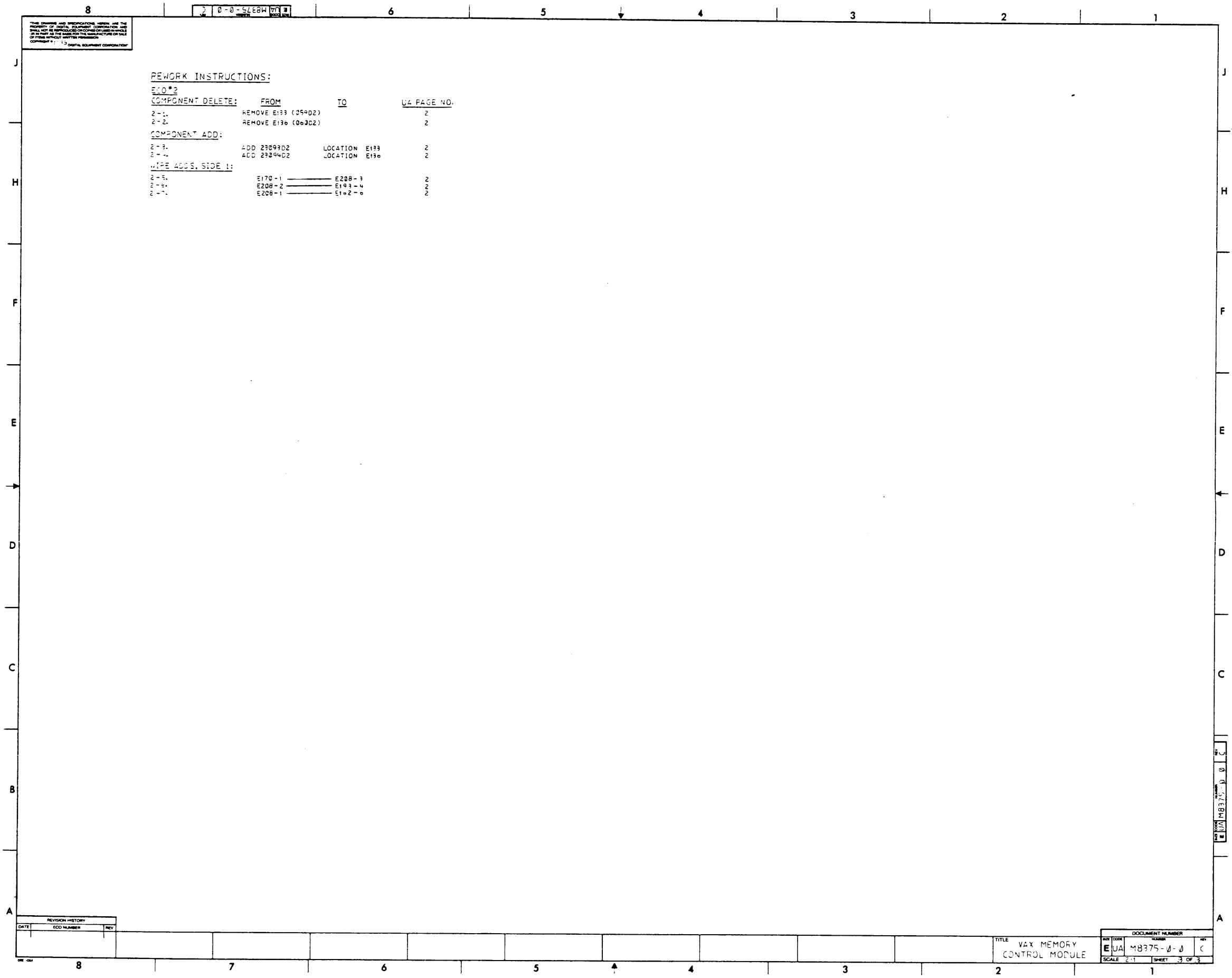
D	I	G	I	T	A	L	TITLE	1M X 39 BIT MOS MEMORY	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	M8374-AA-DBP	B





REV	DATE	BY	CHKD
1	10/1/77	WJ	WJ

TITLE		VAX MEMORY CONTROL MODULE		PART NUMBER		M8375-0-0		REV		C	
SCALE		2/1		SHEET		2 OF 3		DST		SHO	

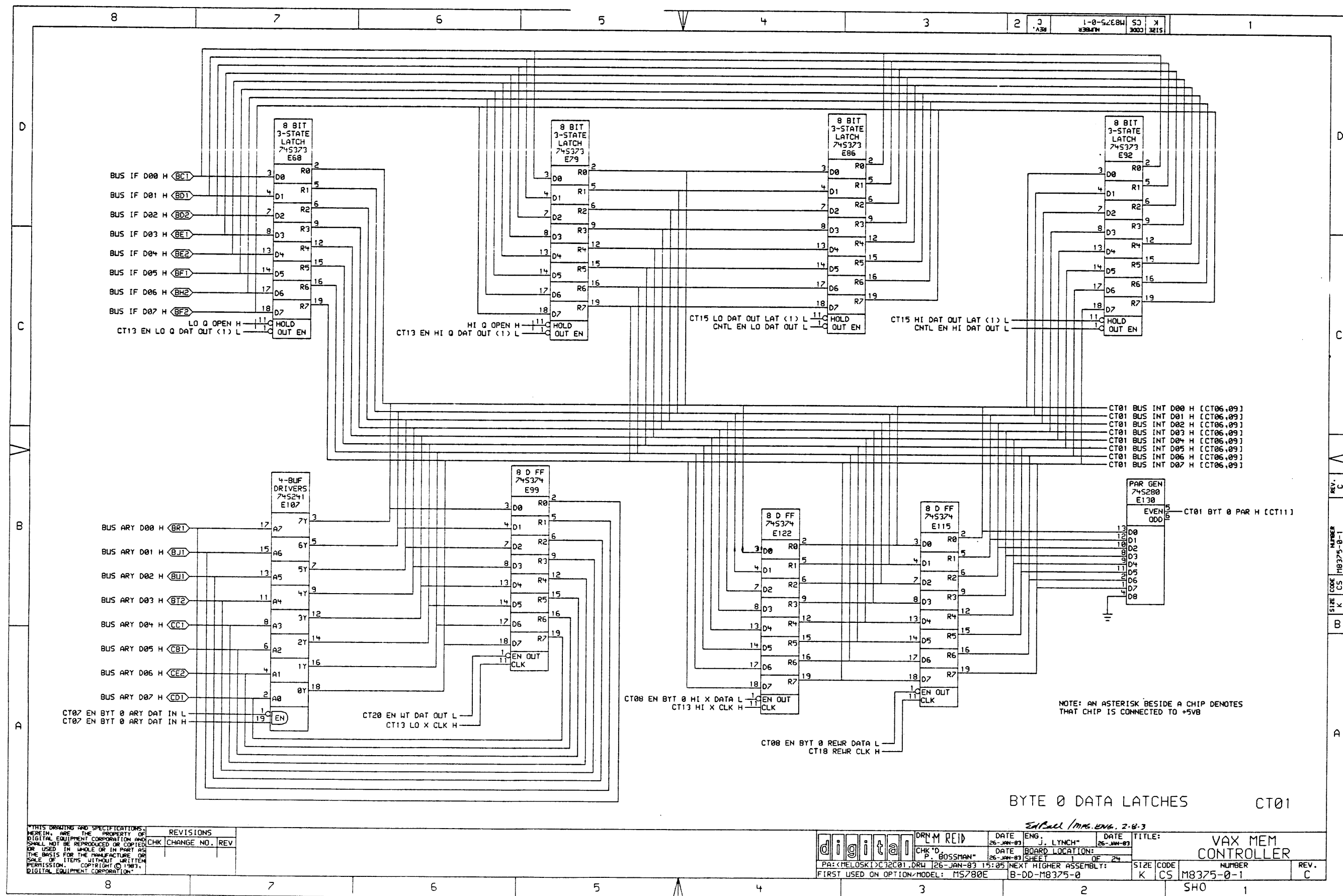


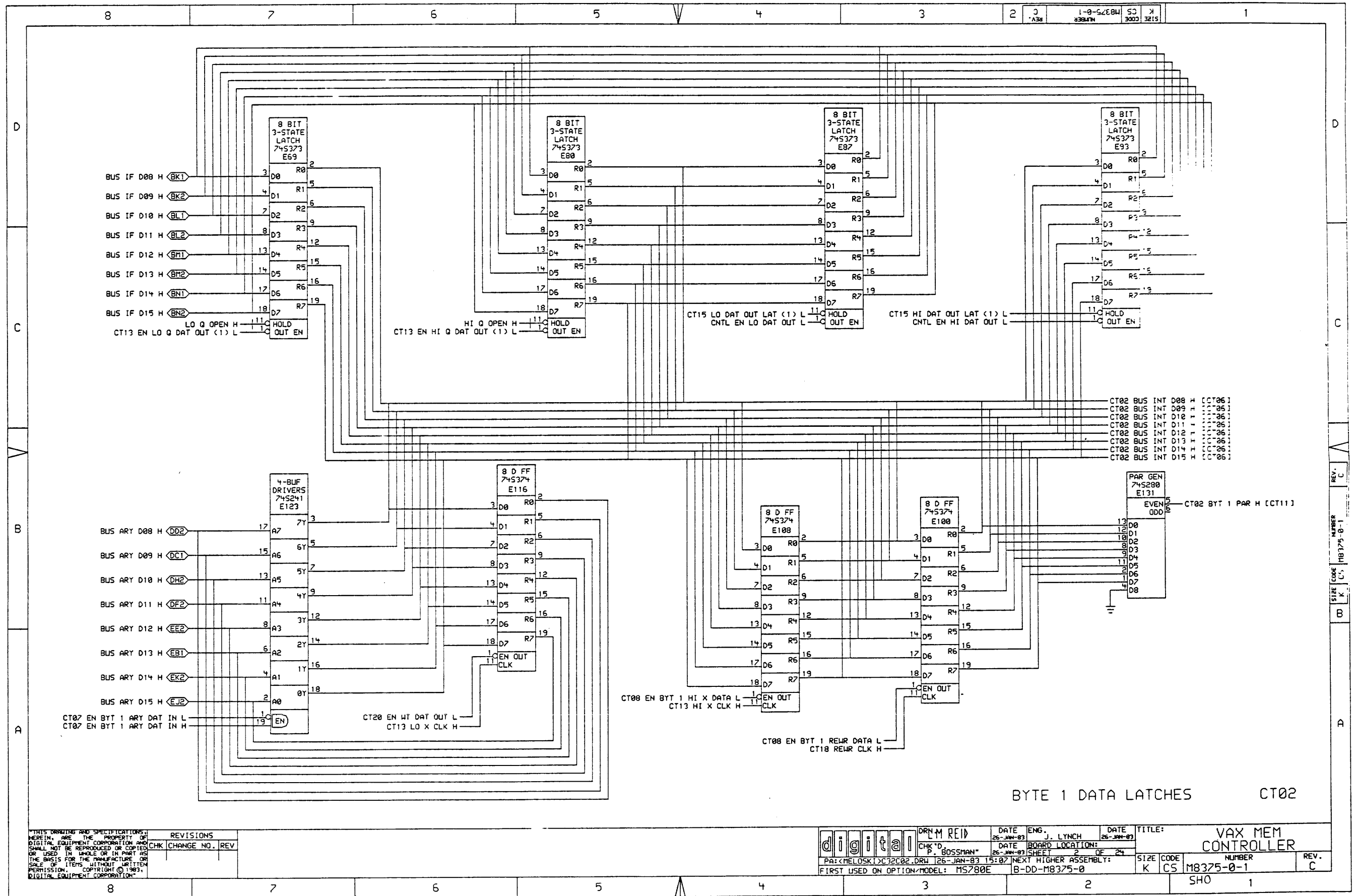
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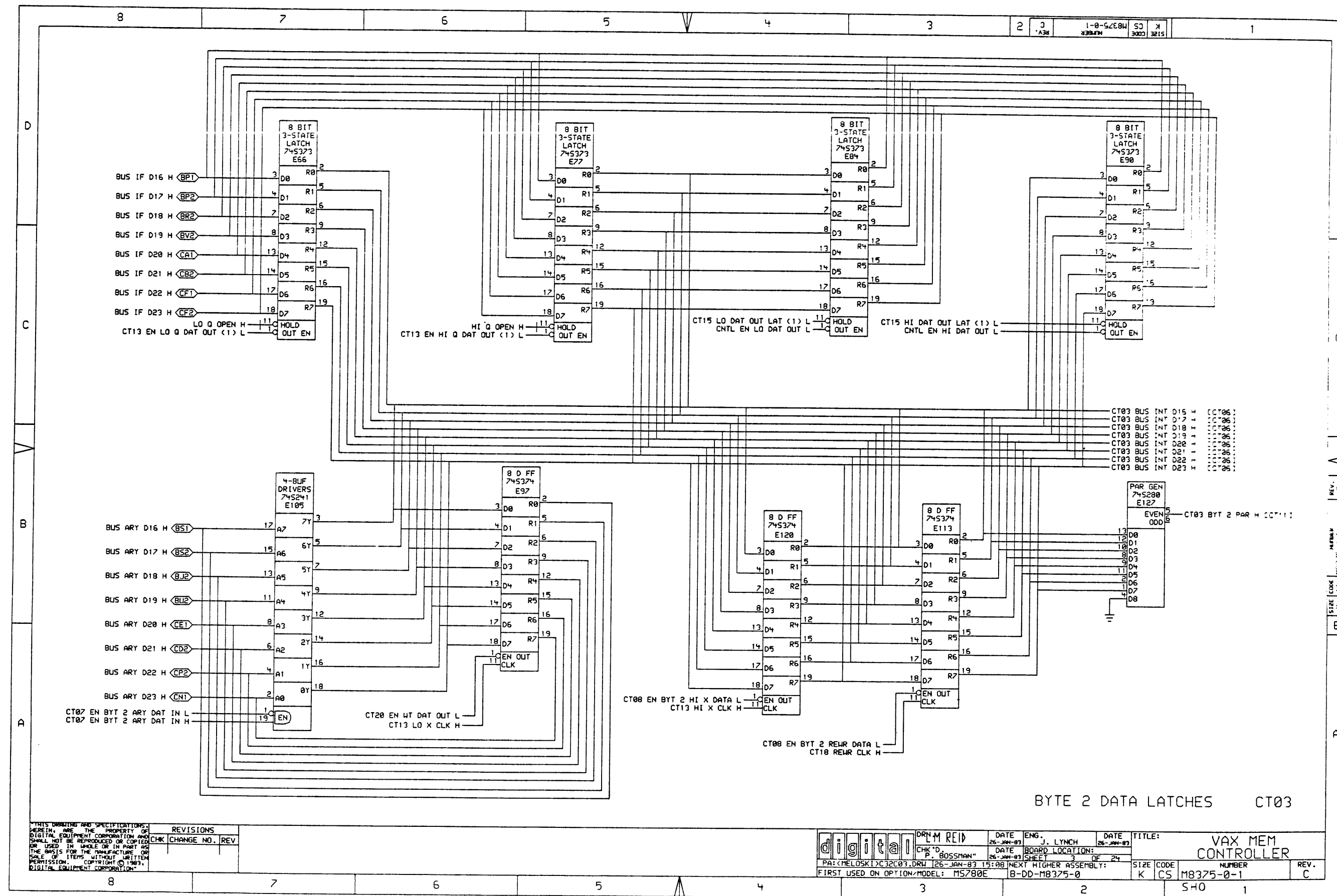
REWORK INSTRUCTIONS:
EAO*2
COMPONENT DELETE: FROM TO U4 PAGE NO.
2-1. REMOVE E133 (059D2) 2
2-2. REMOVE E136 (063D2) 2
COMPONENT ADD:
2-3. ADD 23093D2 LOCATION E133 2
2-4. ADD 23094D2 LOCATION E136 2
WIPE ADDS. SIDE 1:
2-5. E170-1 E288-3 2
2-6. E208-2 E193-4 2
2-7. E208-1 E1+2-5 2

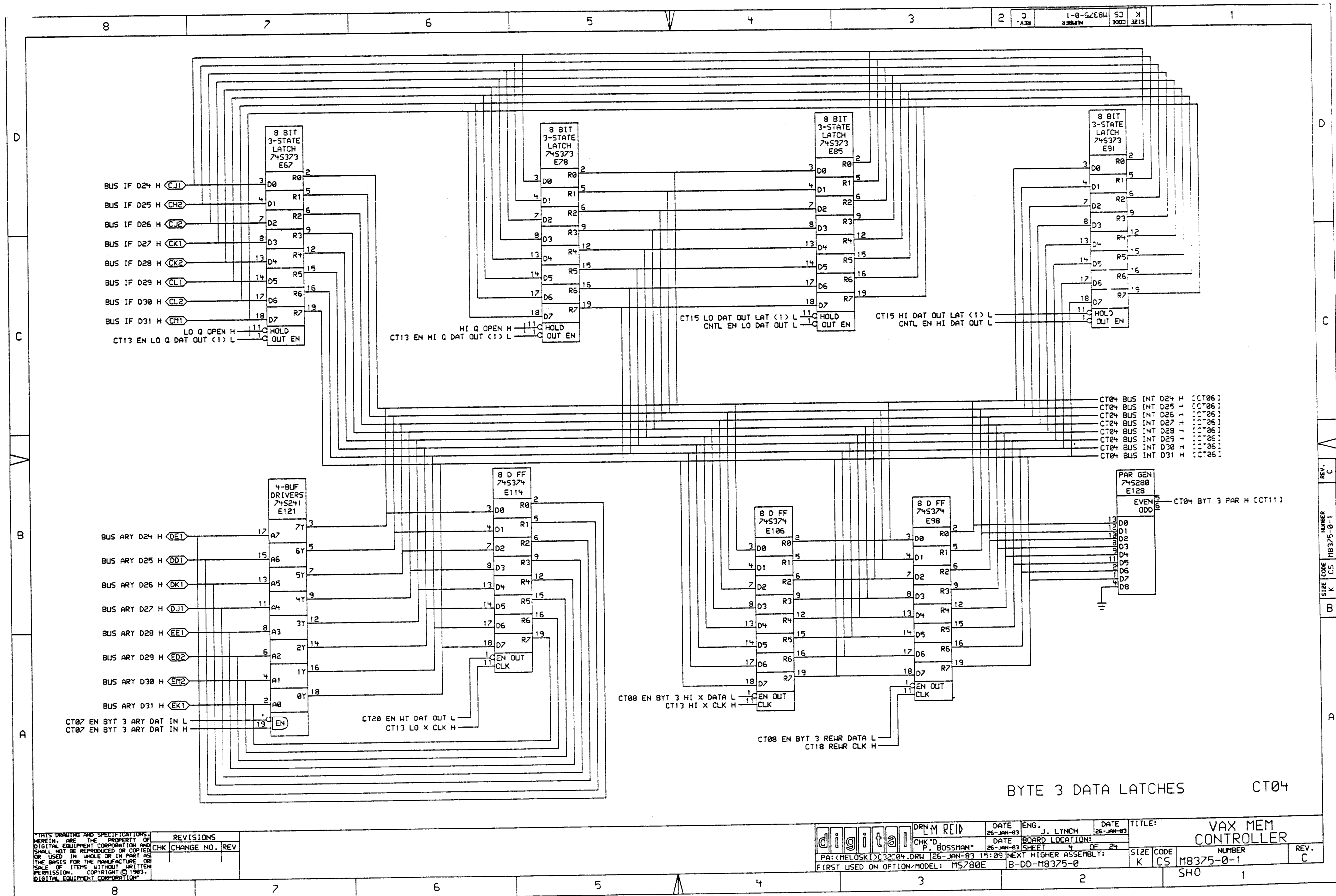
REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE		DOCUMENT NUMBER	
VAX MEMORY CONTROL MODULE		EUA M8375-0-0 C	
SCALE 2:1		SHEET 3 OF 3	



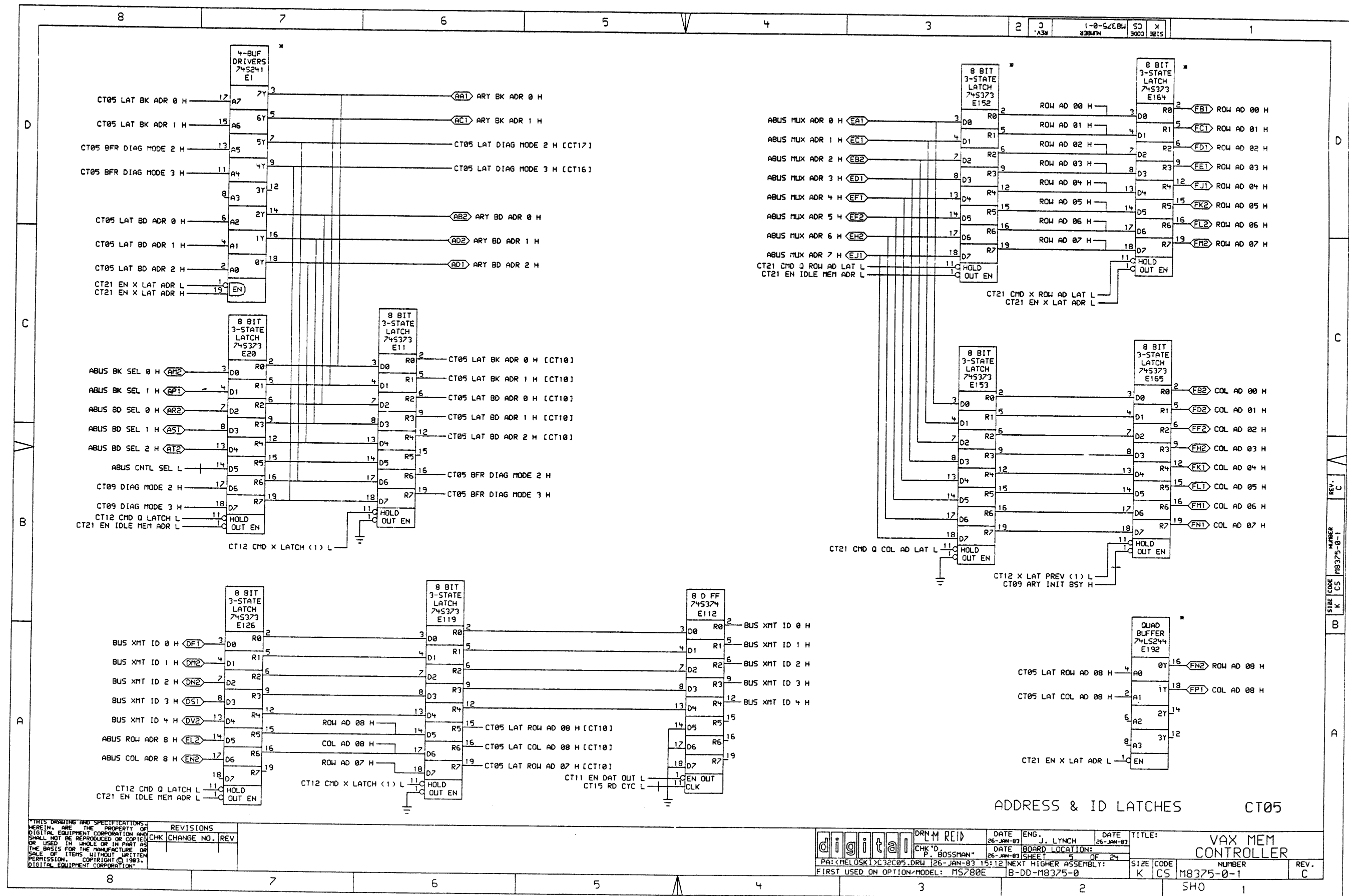


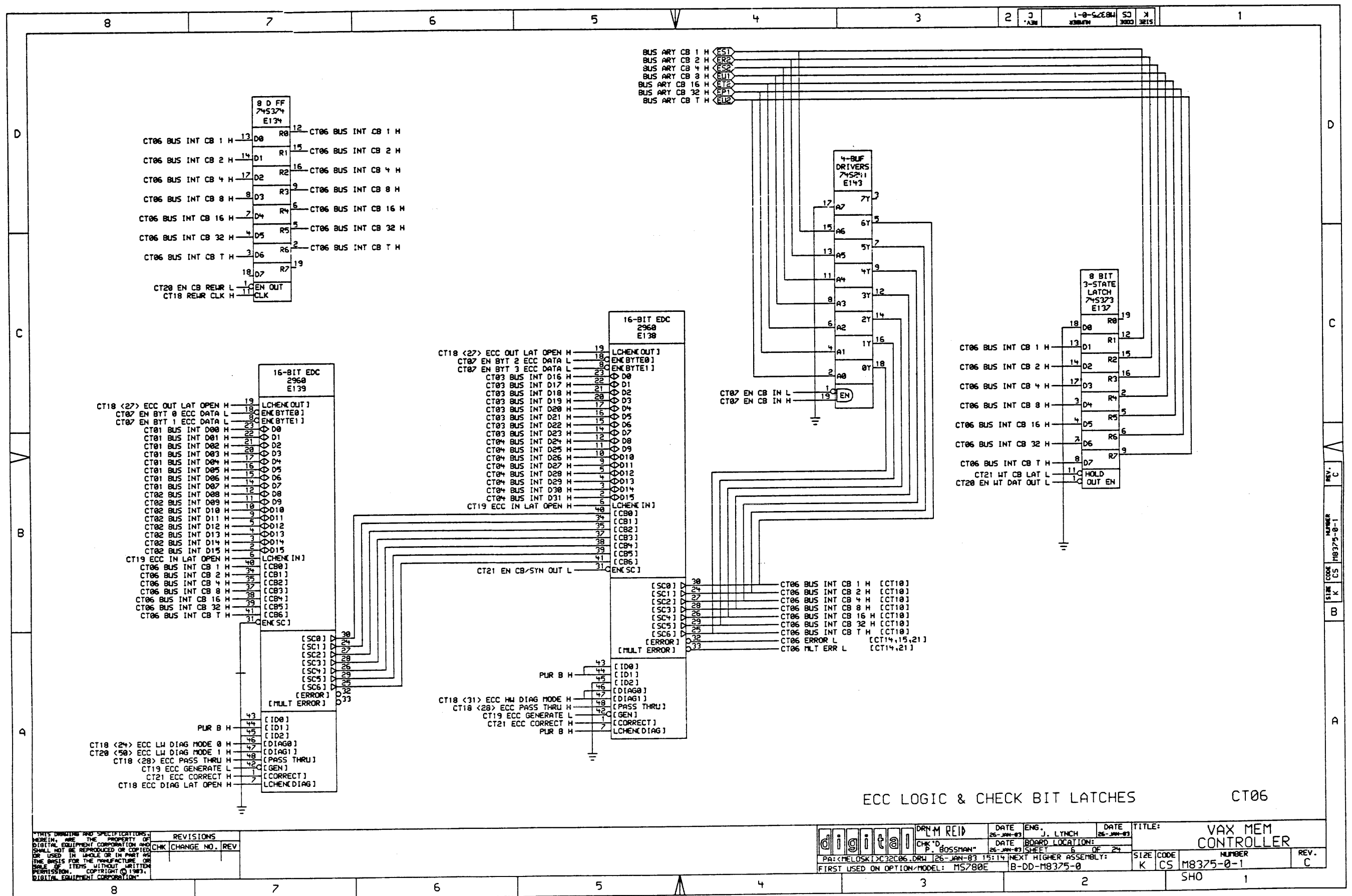


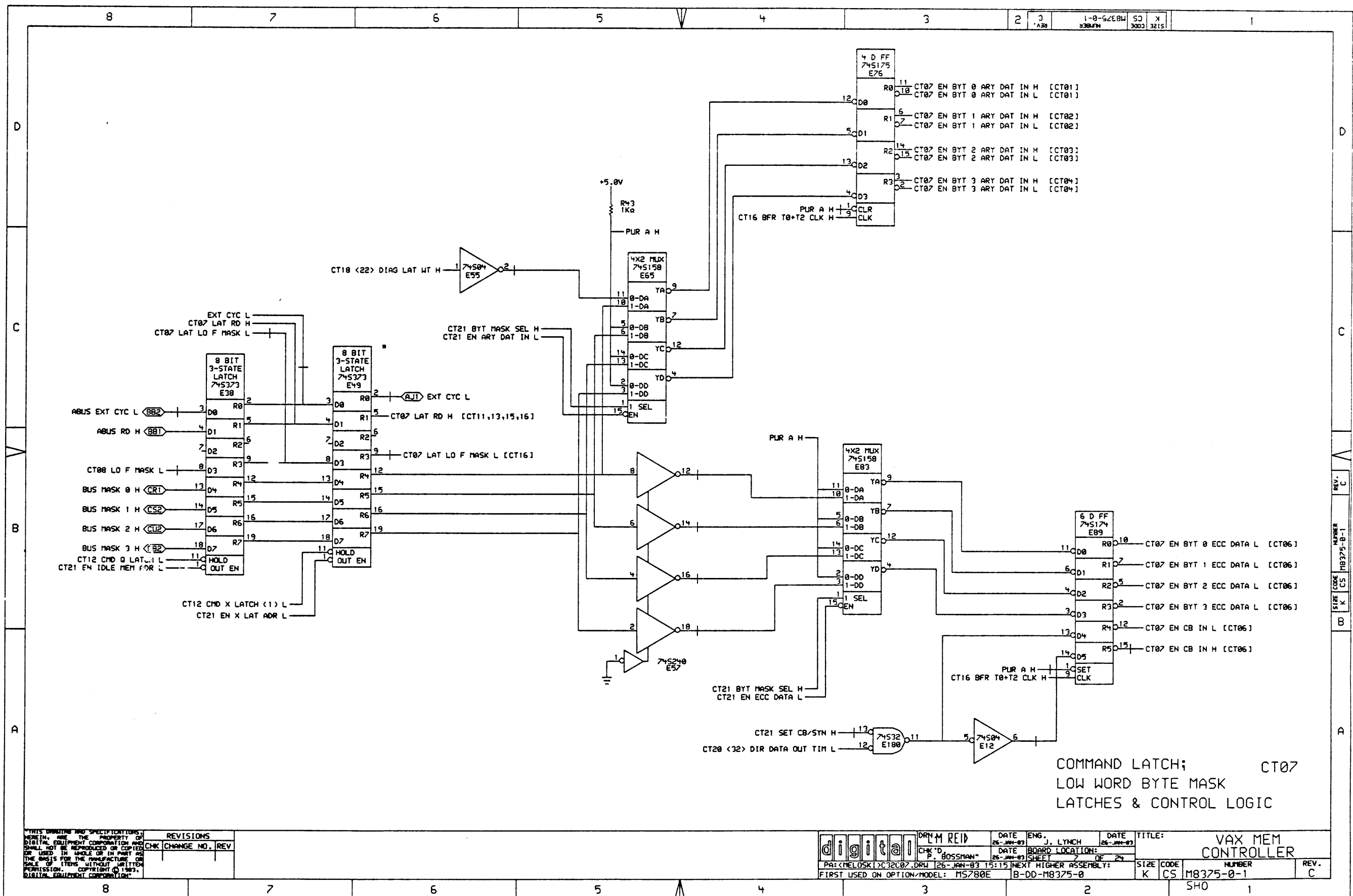


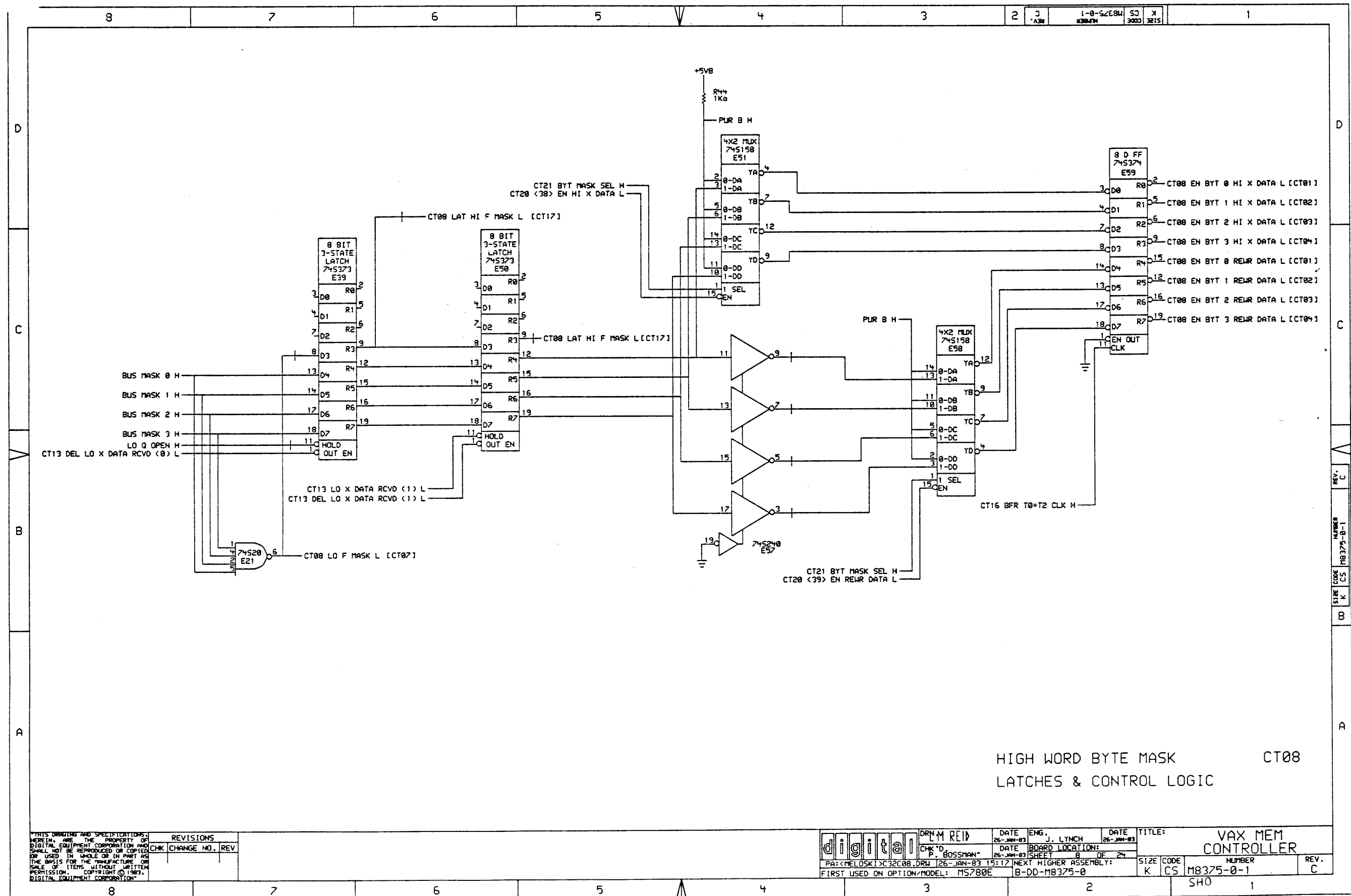
REVISIONS	
CHK	CHANGE NO. REV

digital	DRN M REID	DATE 26-JAN-83	ENG. J. LYNCH	DATE 26-JAN-83	TITLE: VAX MEM CONTROLLER
	CHK'D BOSSMAN	DATE 26-JAN-83	BOARD LOCATION: 4	SHEET 4	OF 24
	PA: MELOSKI\C32C04.DRW 126-JAN-83 15:09 NEXT HIGHER ASSEMBLY:				SIZE CODE K
	FIRST USED ON OPTION/MODEL: MS780E				CS M8375-0-1
B-DD-M8375-0					NUMBER SH0
REV. C					REV. C



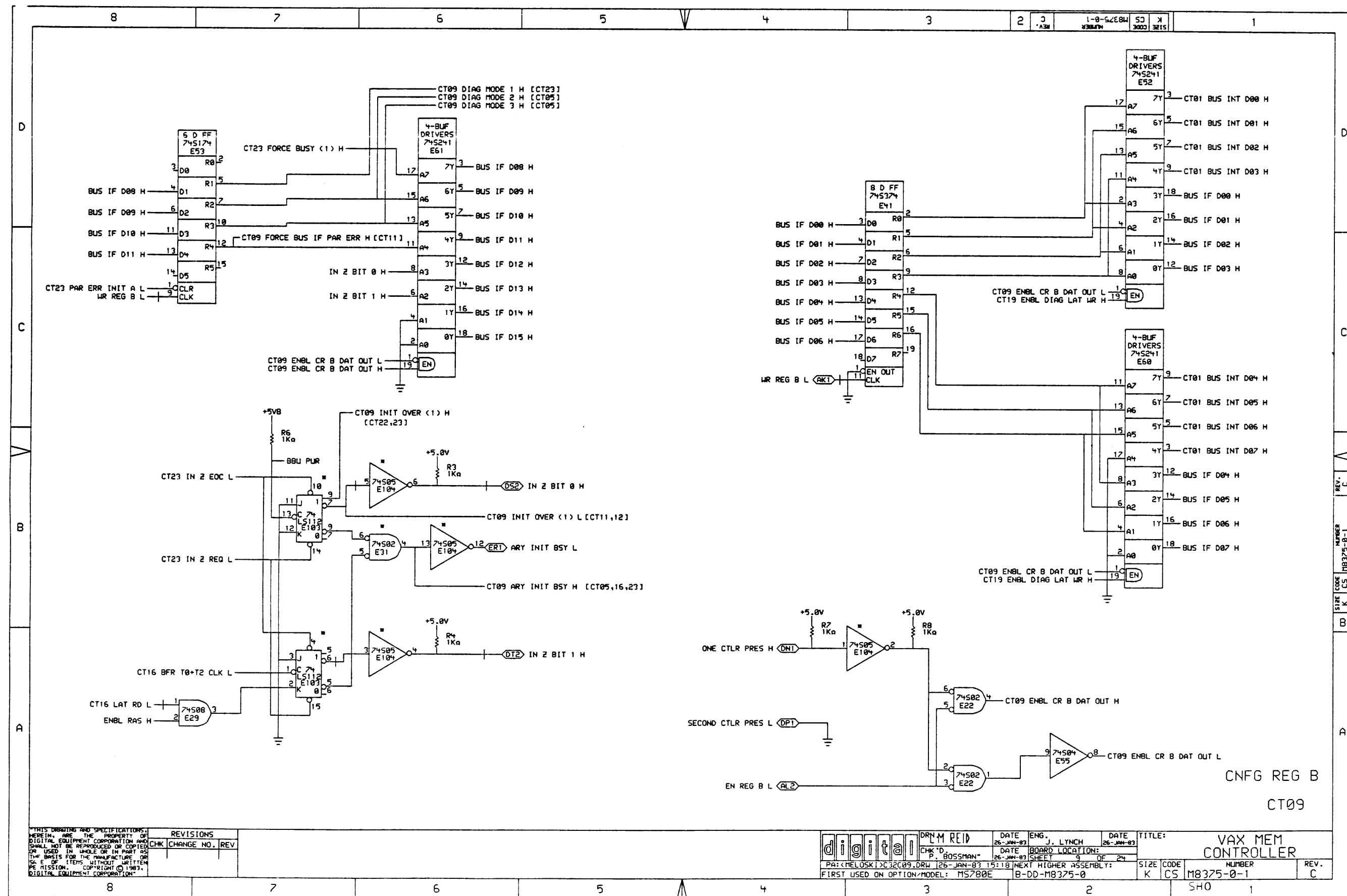


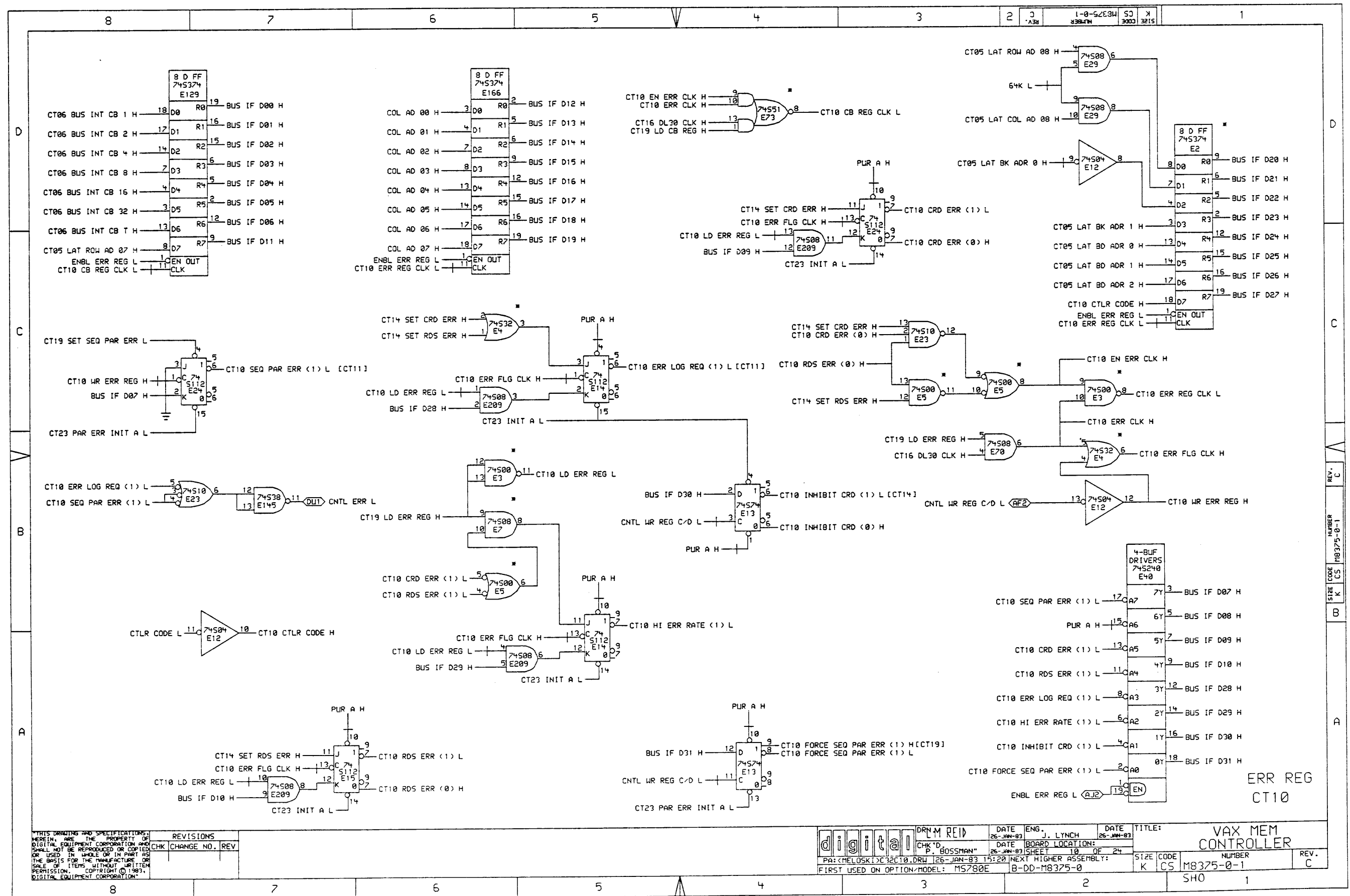


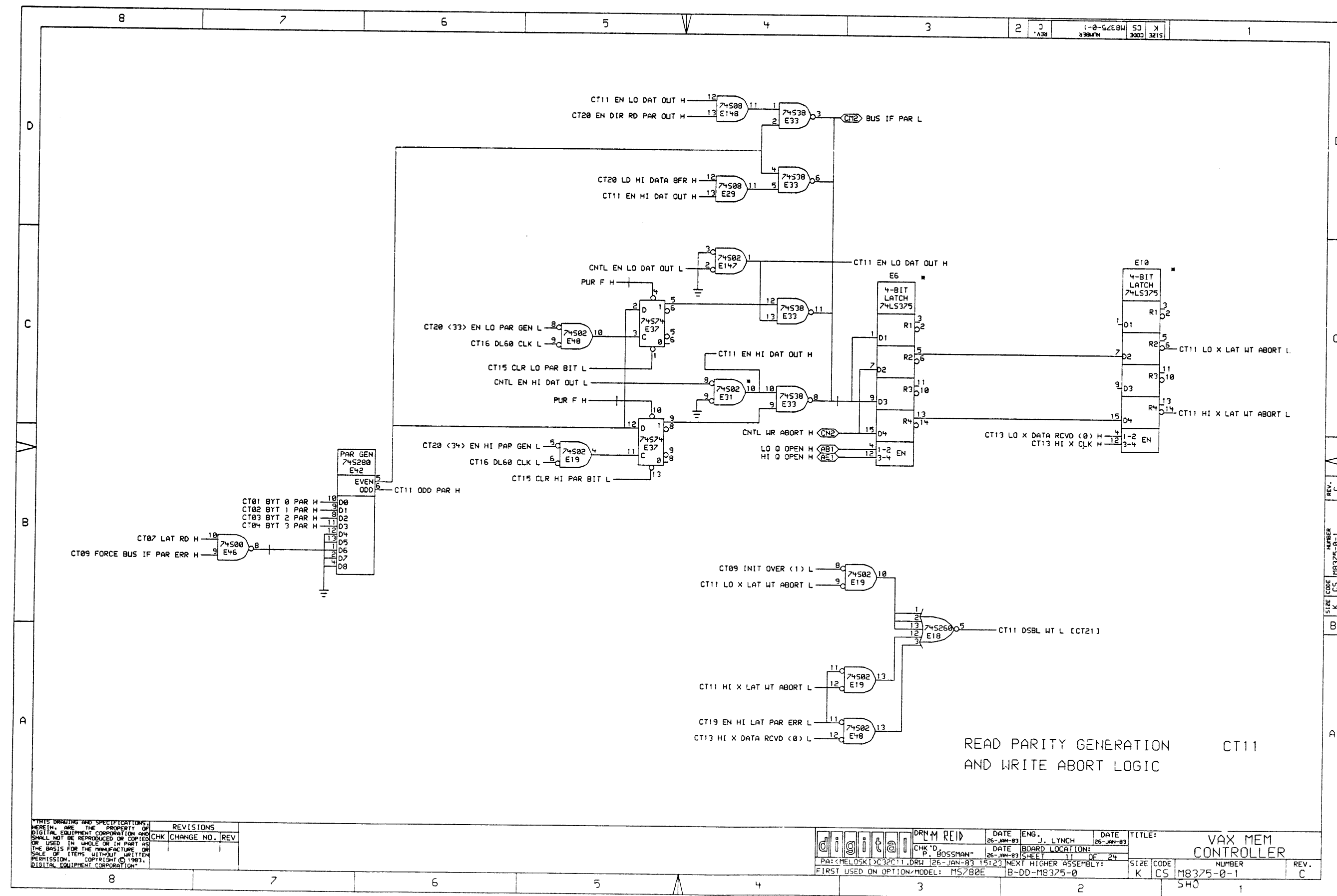


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REVISIONS	CHK CHANGE NO. REV.

digital		DRY M REID	DATE 26-JAN-83	ENG. J. LYNCH	DATE 26-JAN-83	TITLE: VAX MEM CONTROLLER	
CHK'D P. BOSSMAN		DATE 26-JAN-83	BOARD LOCATION: 8	SHEET 8 OF 24		SIZE CODE K CS	
FIRST USED ON OPTION/MODEL: MS780E		NEXT HIGHER ASSEMBLY: B-DD-M8375-0		NUMBER M8375-0-1		REV. C	
				SHO		1	







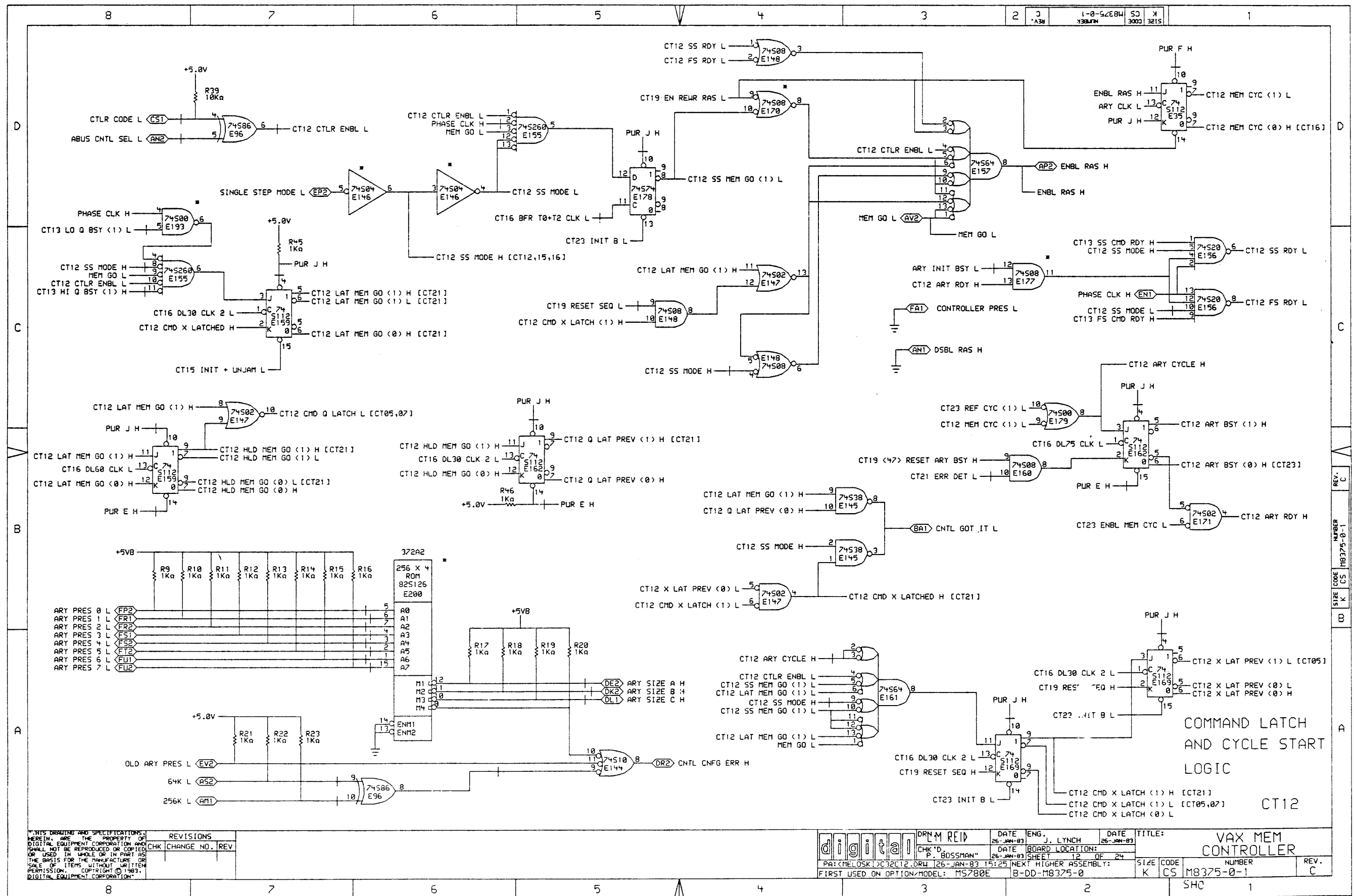
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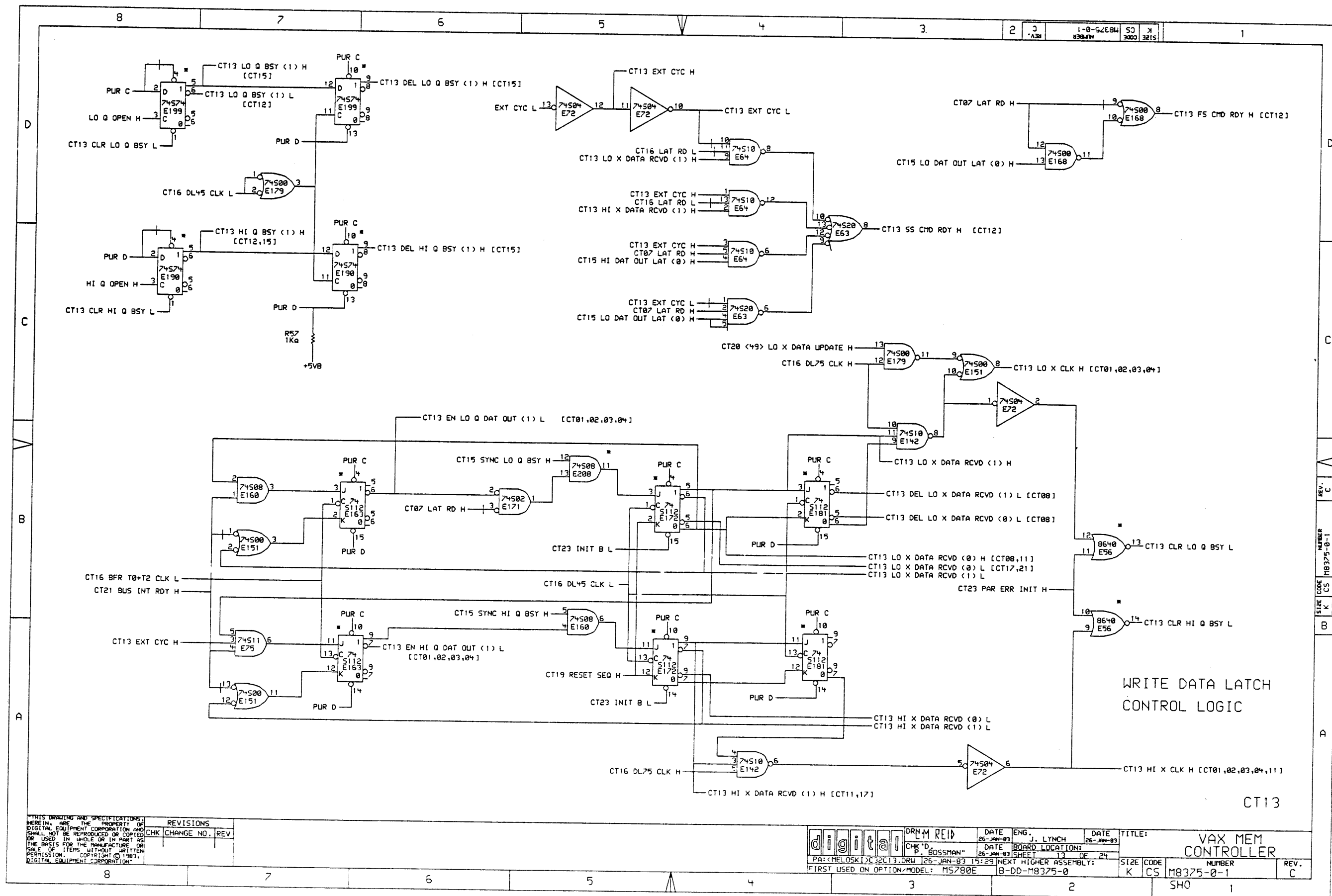
REVISIONS		
CHK	CHANGE NO.	REV

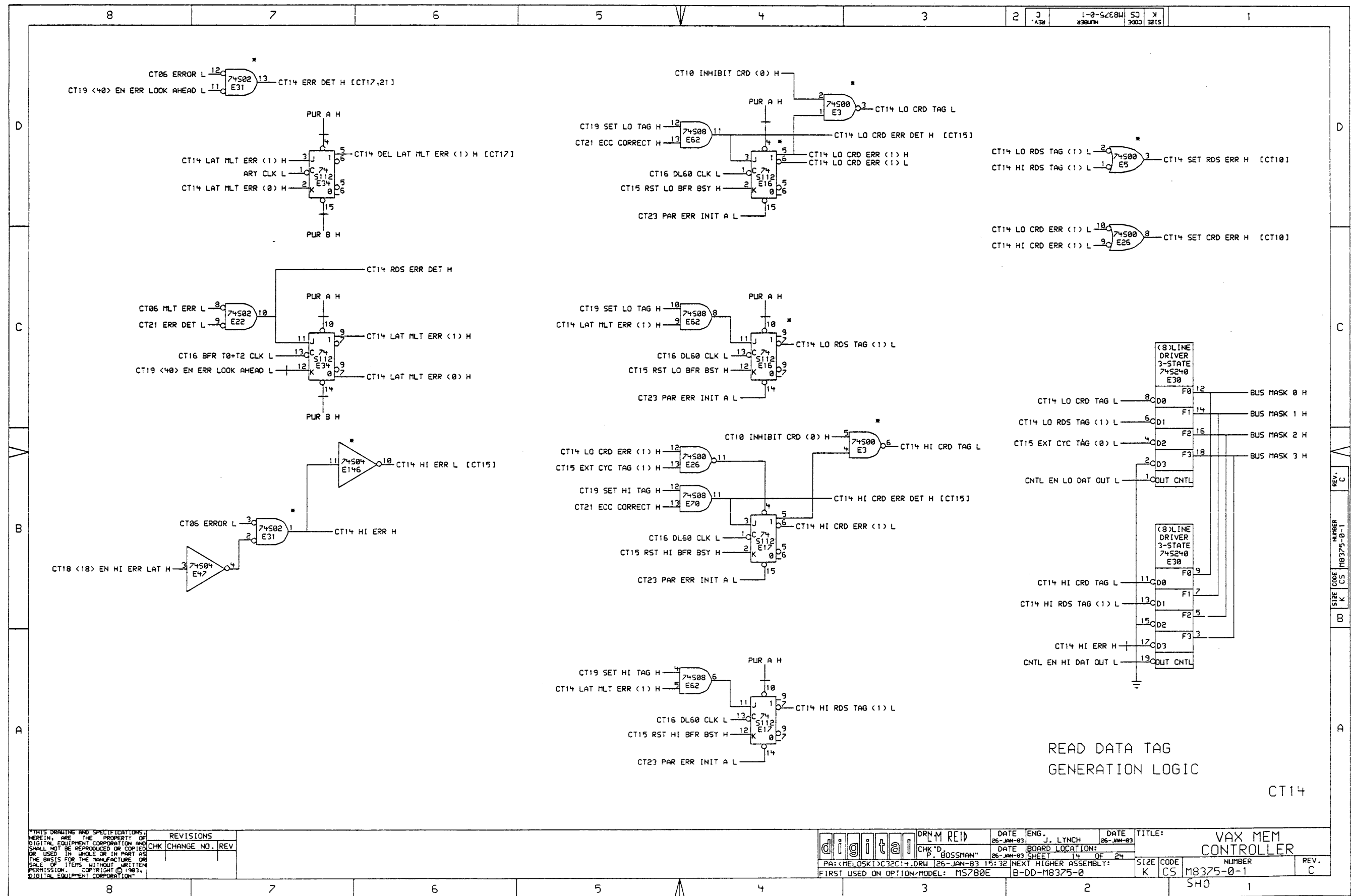
digital
PAR: MELOSKI>C32C11.DRW 126-JAN-83 15:23
FIRST USED ON OPTION/MODEL: M5780E

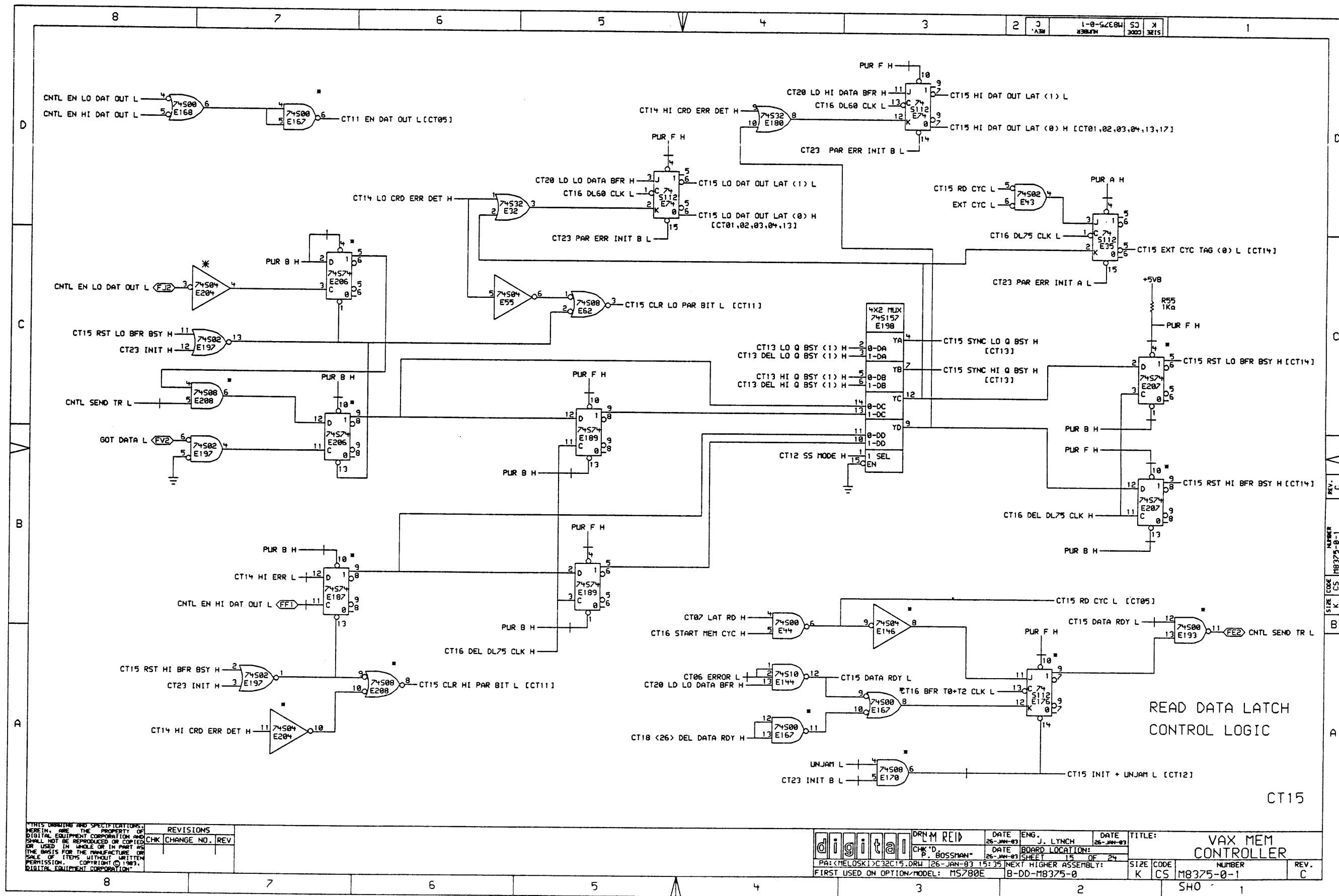
DRN-M REID
CHK'D P. BOSSMAN
DATE 26-JAN-83
DATE 26-JAN-83
SHEET 11 OF 24
NEXT HIGHER ASSEMBLY: B-DD-M8375-0

ENG. J. LYNCH
DATE 26-JAN-83
TITLE: VAX MEM CONTROLLER
SIZE CODE K CS
NUMBER M8375-0-1
REV. C





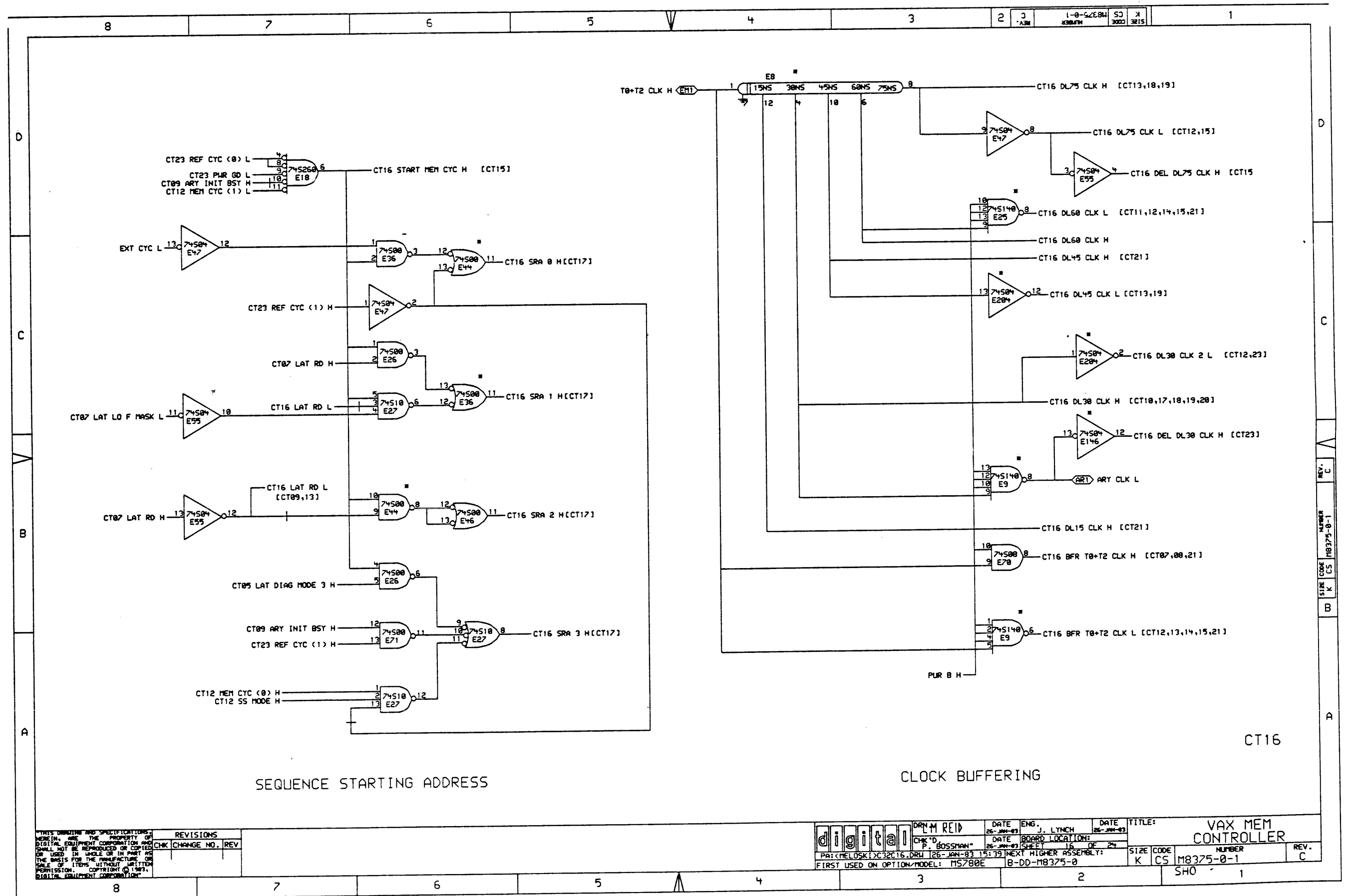


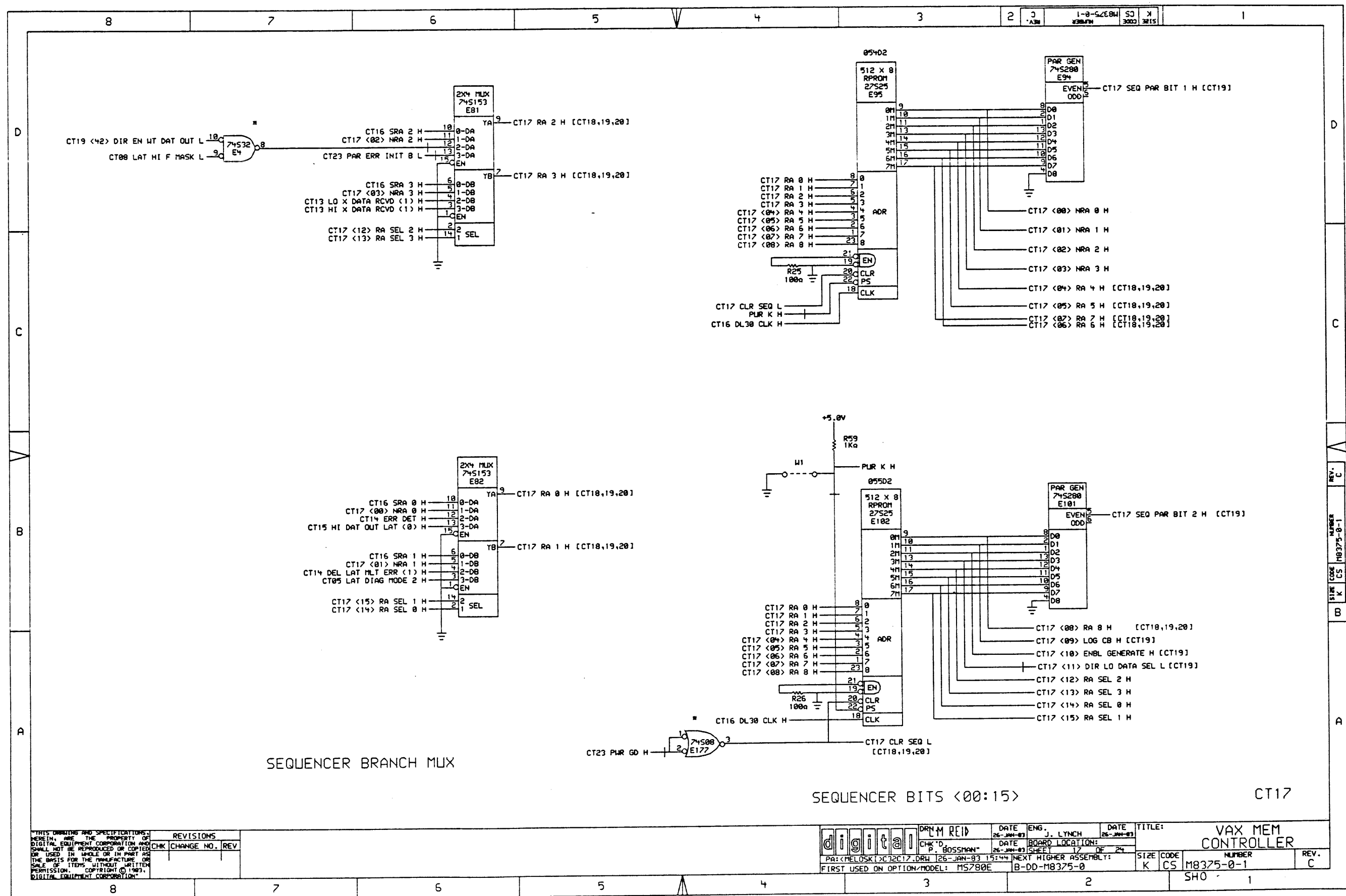


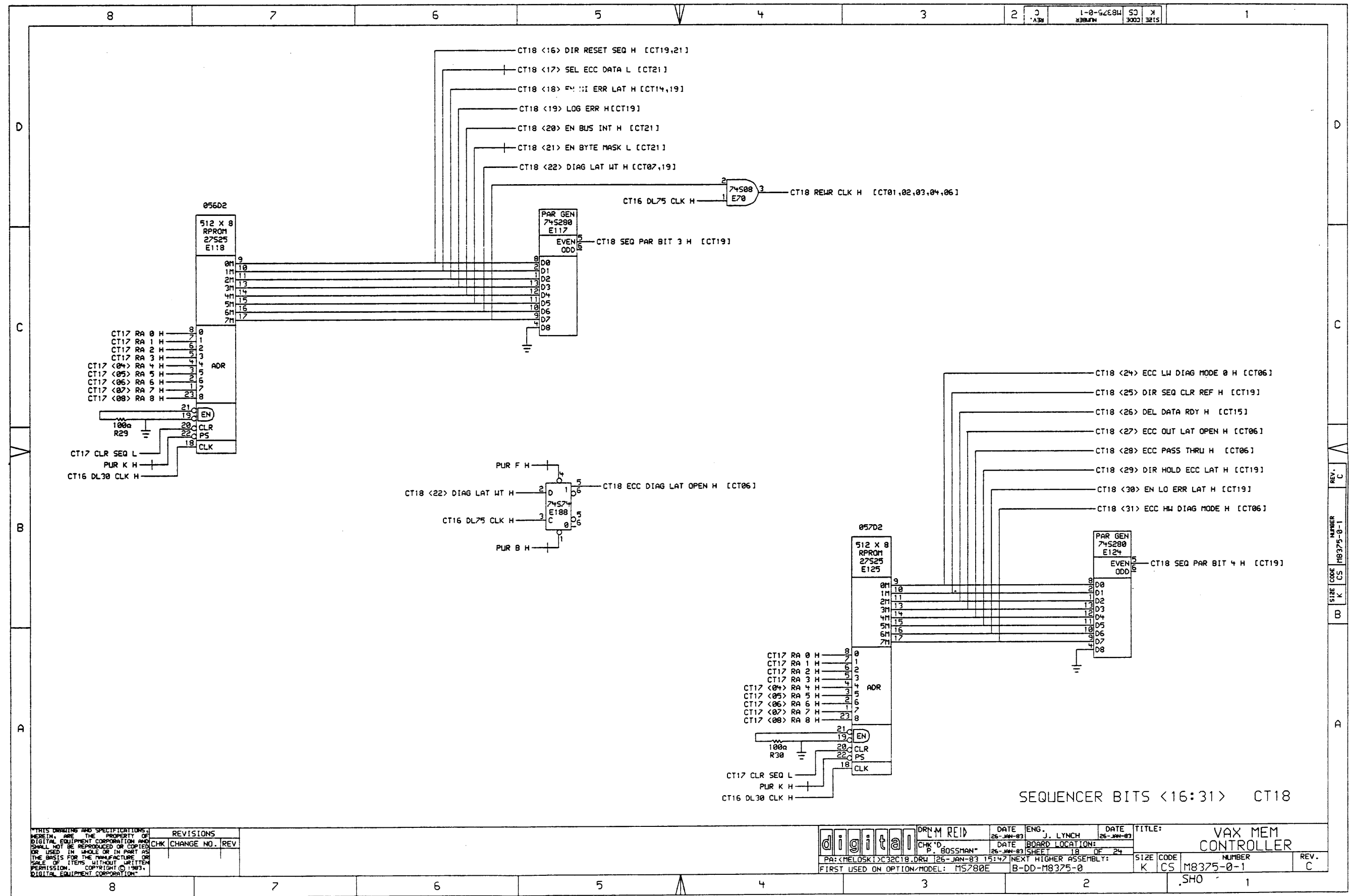
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRM REID	DATE	ENG.	DATE	TITLE:
		26-JAN-83	J. LYNCH	26-JAN-83	VAX MEM CONTROLLER
CHK'D		DATE	BOARD LOCATION:		
P. BOSSMAN		26-JAN-83	SHEET 15 OF 24		
PA: MELOSKI > C3C15.DRW		NEXT HIGHER ASSEMBLY:		SIZE	CODE
FIRST USED ON OPTION/MODEL: MS780E		B-DD-M8375-0		K	CS
				NUMBER	REV.
				M8375-0-1	C

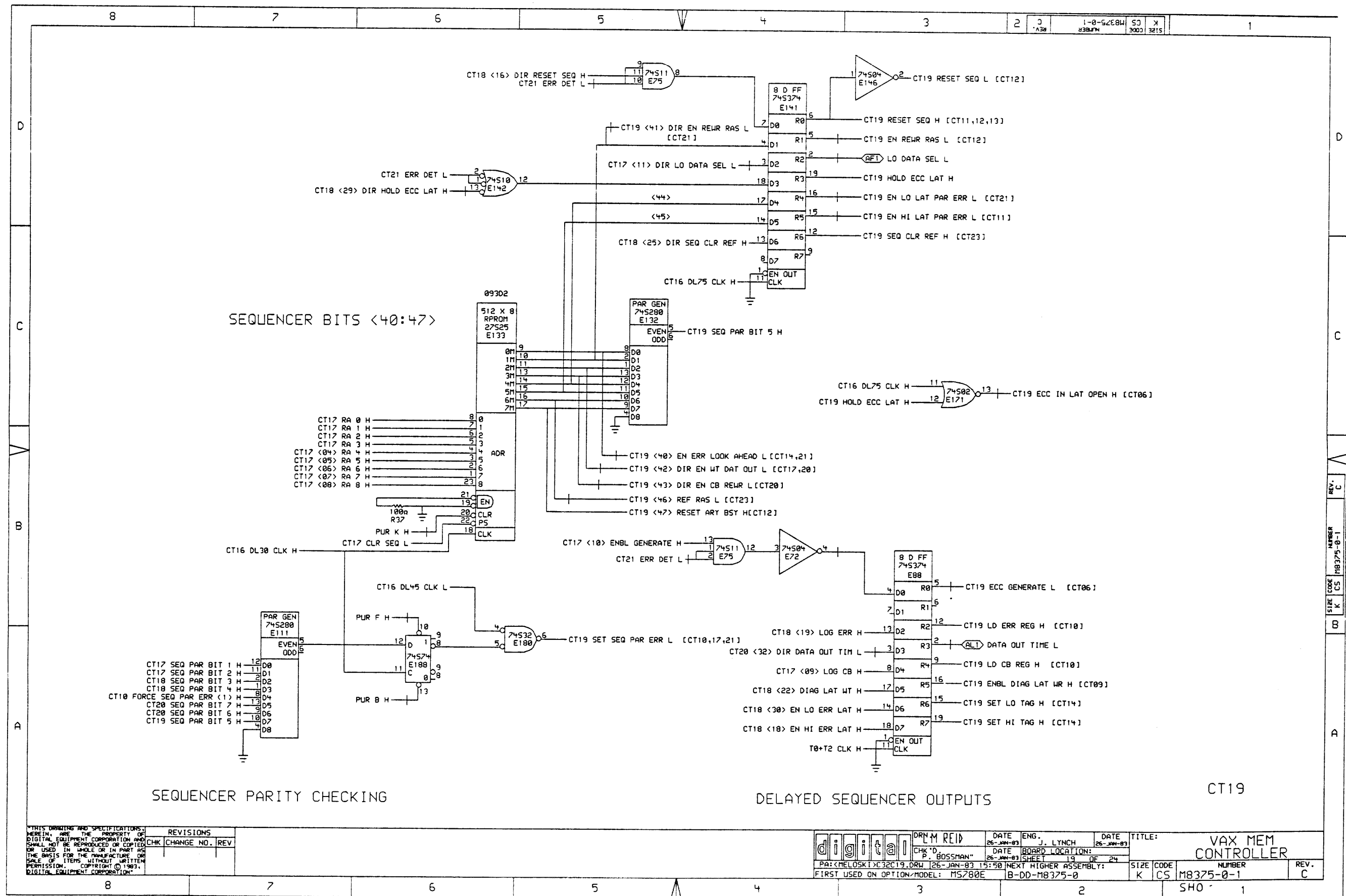


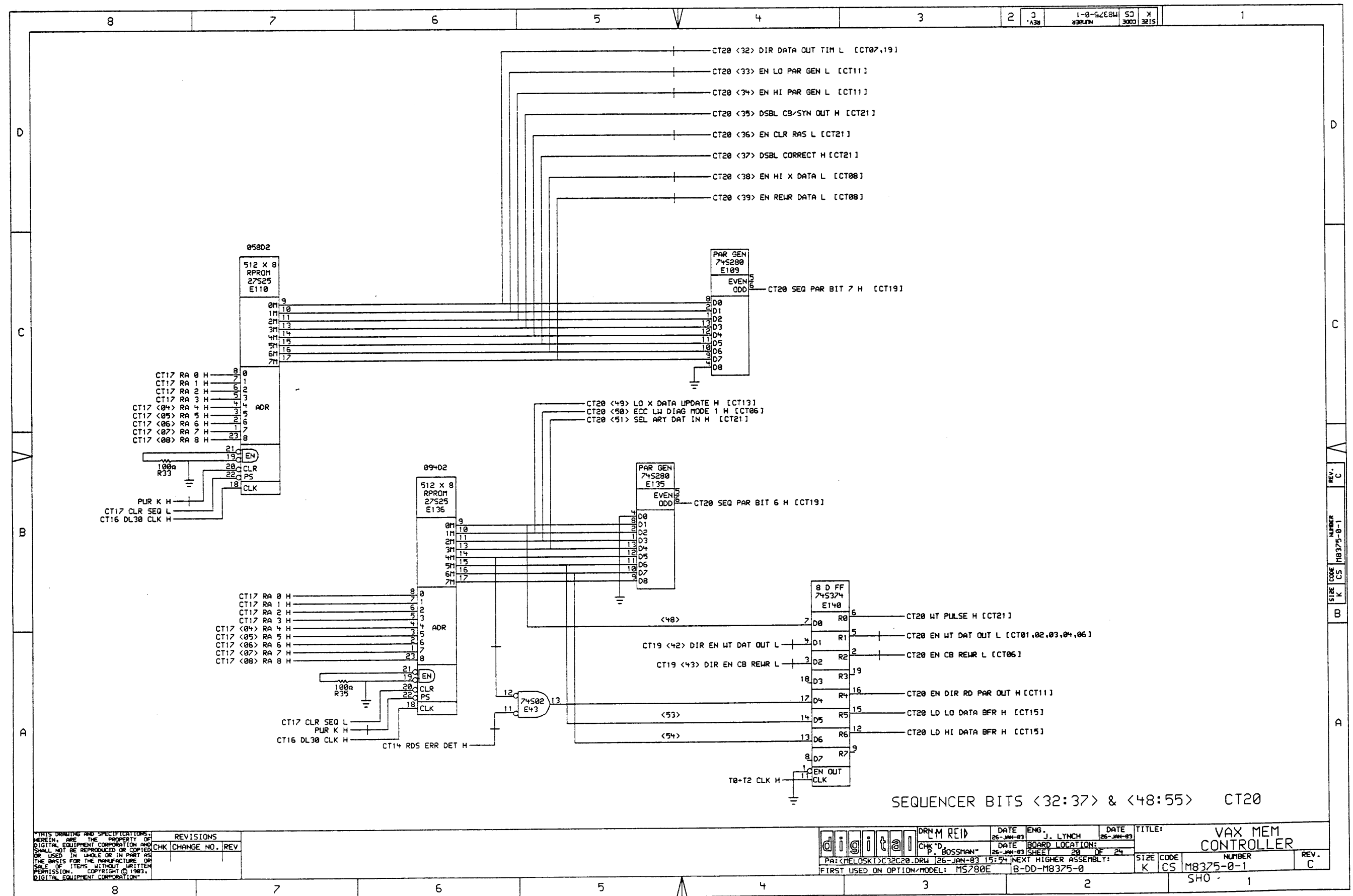




REVISIONS	
CHK	CHANGE NO. REV

digital	DRM REID	DATE	ENG.	DATE	TITLE:		
		26-JAN-83	J. LYNCH	26-JAN-83			
	CHK'D	DATE	BOARD LOCATION:				
	P. BOSSMAN	26-JAN-83	SHEET 1A OF 24				
	PA: <MELOSKI> C32C18.DRW 126-JAN-83 15:47 NEXT HIGHER ASSEMBLY:						
FIRST USED ON OPTION/MODEL: MS780E		B-DD-M8375-0		SIZE	CODE	NUMBER	REV.
				K	CS	M8375-0-1	C

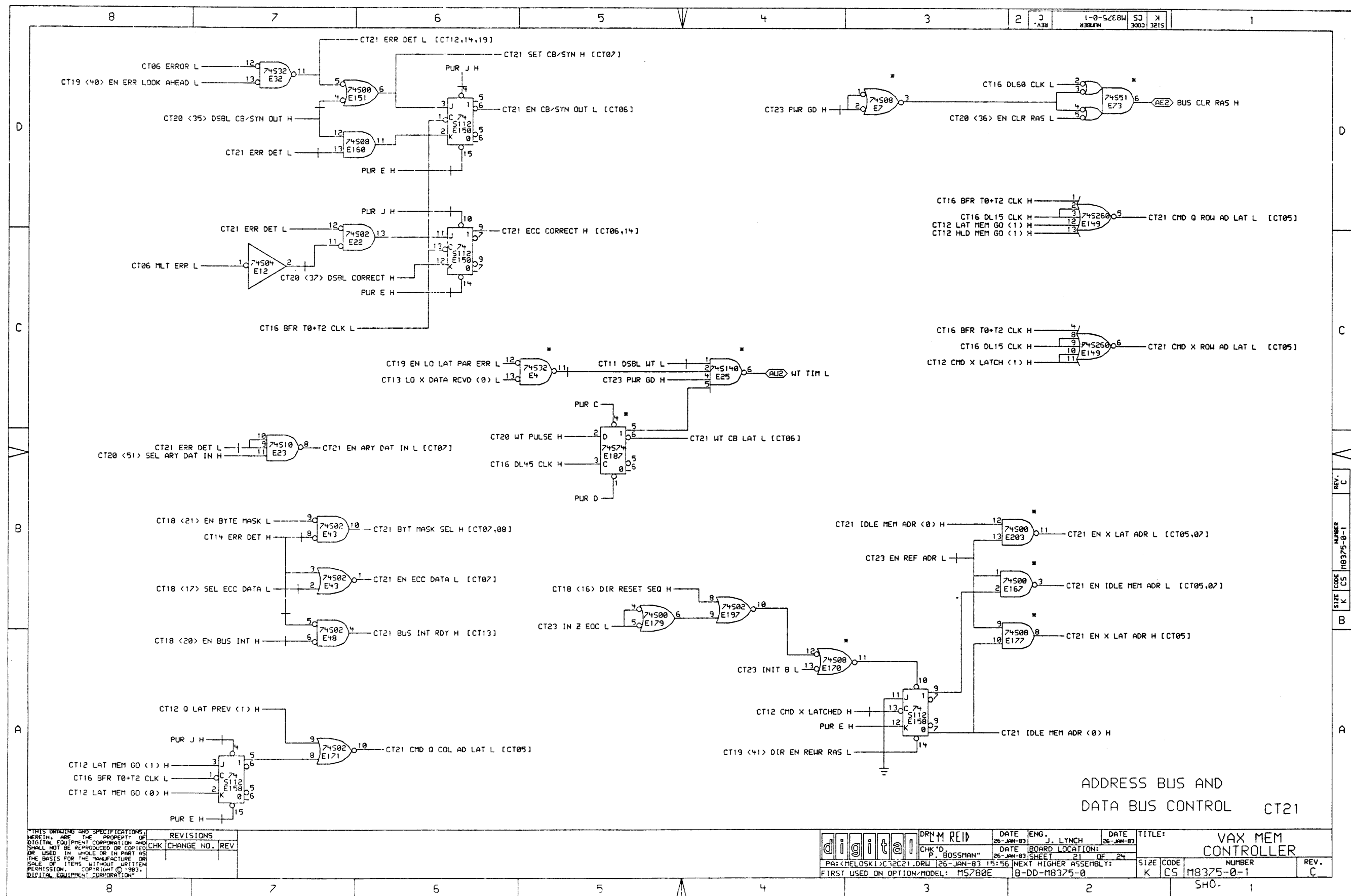




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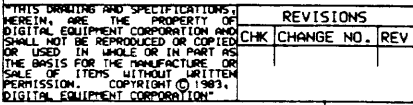
REVISIONS		
CHK	CHANGE NO.	REV

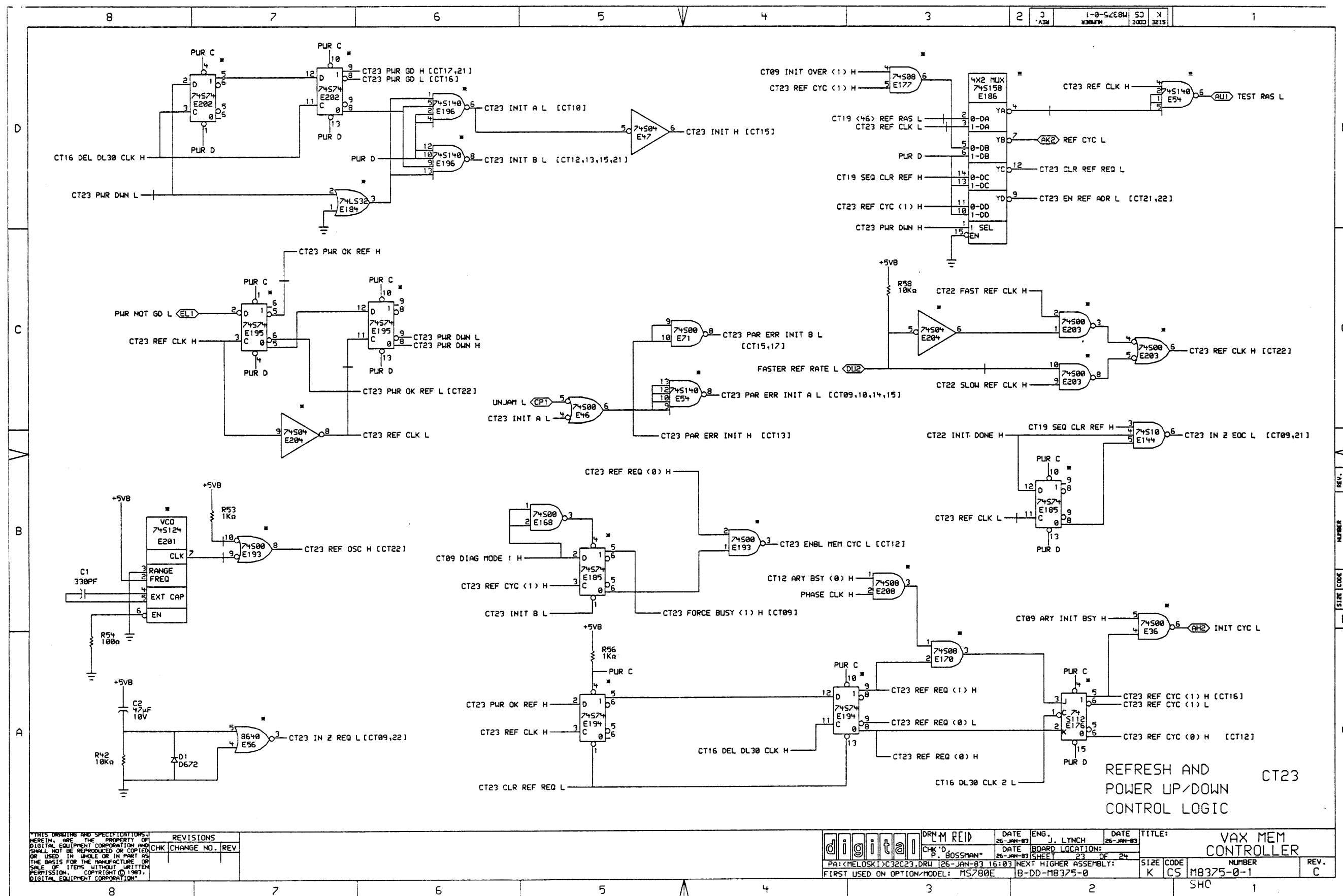
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	CHK'D BOSSMAN	DATE 26-JAN-83	BOARD LOCATION: 20 OF 24	SHEET 20	SIZE K	CODE CS
PAZ:MELOSKI>C32C20.DRW 26-JAN-83 15:54				NEXT HIGHER ASSEMBLY: B-DD-M8375-0		NUMBER M8375-0-1
FIRST USED ON OPTION/MODEL: M5780E				REV. C		SHO - 1



REVISIONS		
CHK	CHANGE NO.	REV.

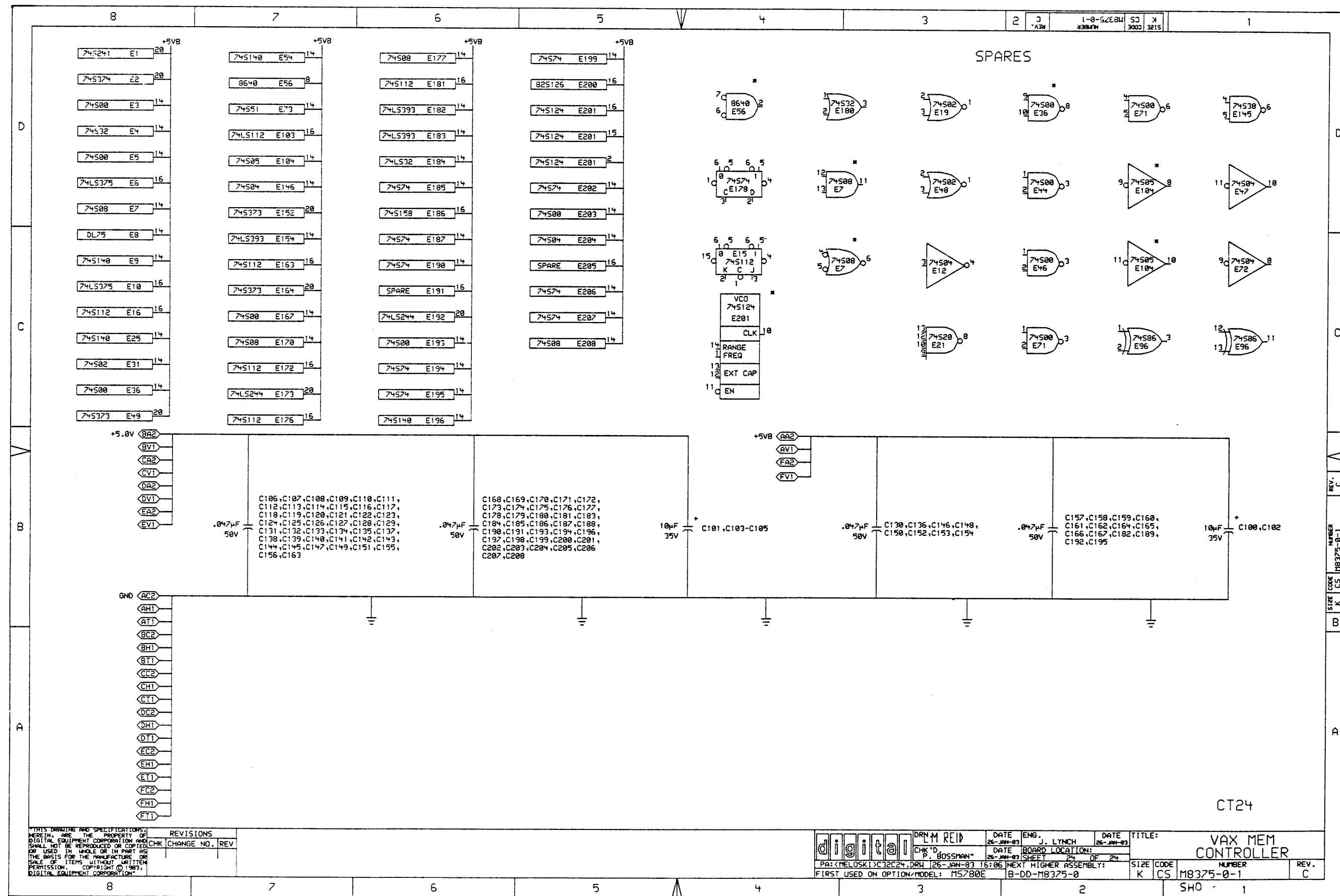
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		26-JAN-83	J. LYNCH	26-JAN-83					
	CHK'D.	DATE	BOARD LOCATION:						
	P. BOSSMAN	26-JAN-83	SHEET 21 OF 24						
PA: MELOSKI XC52C21.DRW		26-JAN-83	15:56	NEXT HIGHER ASSEMBLY:		SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: MS780E		B-DD-M8375-0				K	CS	M8375-0-1	C





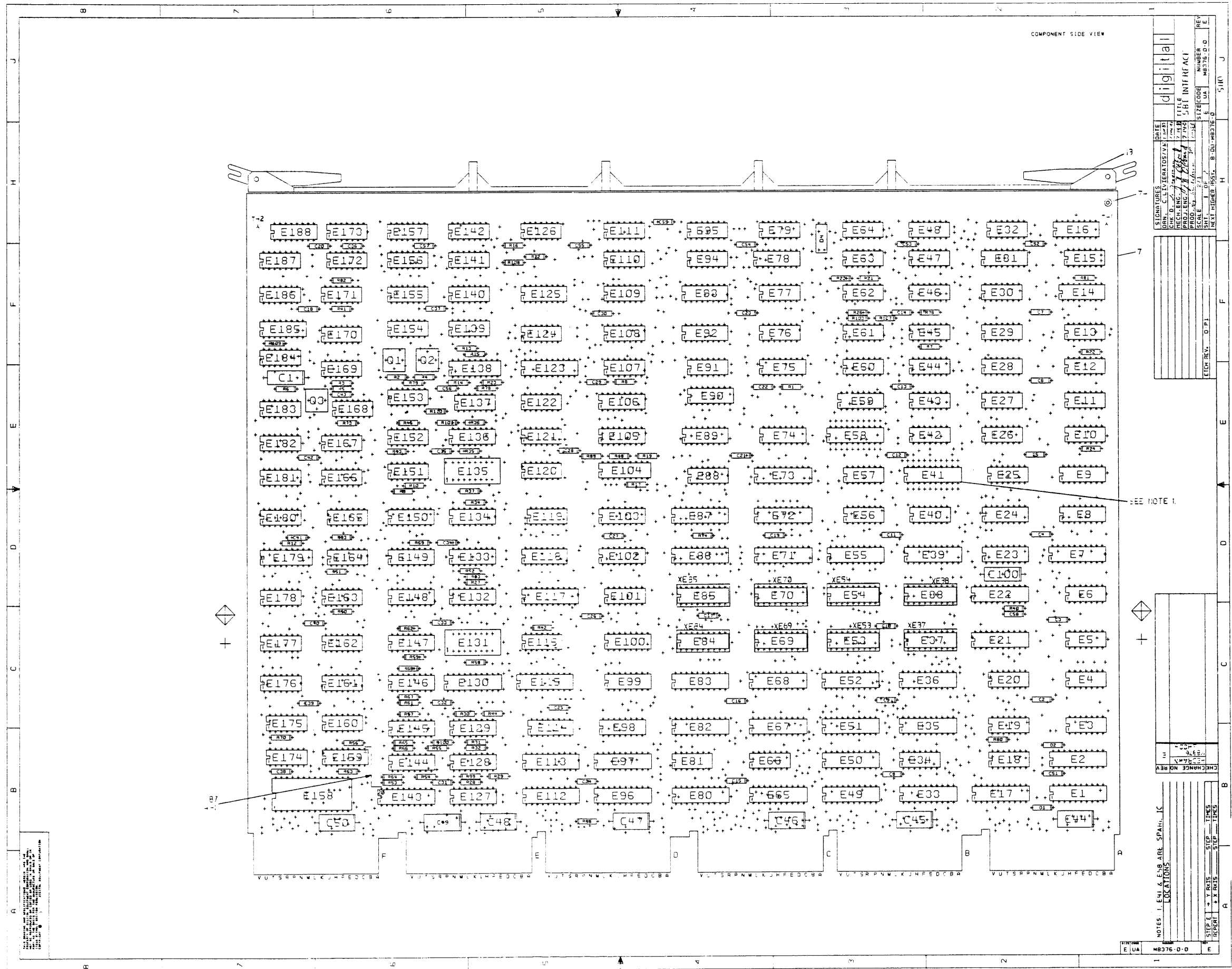
REVISIONS	
CHK	CHANGE NO. REV

digital	DRM REID	DATE 26-JAN-83	ENG. J. LYNCH	DATE 26-JAN-83	TITLE: VAX MEM CONTROLLER
CHK'D P. BOSSMAN	DATE 26-JAN-83	SHEET 23 OF 24	BOARD LOCATION: 23	SIZE CODE K CS	NUMBER M8375-0-1
FIRST USED ON OPTION/MODEL: M5780E		NEXT HIGHER ASSEMBLY: B-DD-M8375-0		REV. C	



LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
26	27		1910547-00	74S153 MUX 1 OF 4 (DUAL)	2	E81,E82
27	28		1910548-00	74S157 MUX 1 OF 2 (QUAD)	1	E198
28	29		1910549-00	74S158 MUX 1 OF 2 (QUAD)	5	E51,E58,E65,E83,E186
29	30		1910550-00	74S174 FF-D HEX	2	E53,E89
30	31		1910957-00	74S175 FF-D QUAD COMMON CLO	1	E76
31	32		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	1	E56
32	33		1911573-00	74S290 PARITY GEN/CHKR,9BIT	13	E12,E94,E101,E109,E111,E117, CONT E124,E127,E128,E130-E132,E133
33	34		1911712-00	74S51 AND-OR GATE-INVERT D	1	E73
34	35		1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E201
35	36		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1	E96
36	37		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	9	E19,E22,E28,E31,E43,E48,E147, CONT E171,E197
37	38		1912389-00	74S08 AND GATE-QUAD 2IN,PO	10	E7,E29,E62,E70,E148,E160,E170, CONT E177,E208,E209
38	39		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E184
39	40		1912834-00	LS112 FF-JK,DUAL,EDGE TRIG	1	E103
40	41		1912871-00	LS375 LATCH	2	E6,E10
41	42		1913340-00	74S32 OR GATE-QUAD 2IN	3	E4,E32,E180
42	43		1913462-00	74S240 OCTAL BUFFER,INVERTI	3	E30,E40,E57
43	44		1913493-00	74S241 OCTAL BUFFER,TRI-STA	9	E1,E52,E60,E61,E105,E107,E121, CONT E123,E143
44	45		1913670-00	74S373 LATCH 8BIT TRASP TR	29	E11,E20,E38,E39,E49,E50,E66-E69, CONT E77-E80,E84-E87,E90-E93,E119, CONT E126,E137,E152,E153,E164,E165
45	46		1913671-00	74S374 FF-D OCTAL TRISTATE	22	E2,E41,E59,E98,E97-E100,E106, CONT E108,E112-E116,E120,E122,E129, CONT E134,E140,E141,E166
46	47		1914085-00	74S260 NOR GATE-DUAL,POS	3	E18,E149,E155
47	48		1914451-00	74LS393 COUNTER,BINARY,4BIT	3	E154,E182,E183
48	49		1915019-00	74S38 NAND BUFFER-QUAD 2IN	2	E33,E145
49	50		1915193-00	LS244 DRIVER,LINE,OCTAL,T	4	E173-E175,E192
50	51		1918822-00	2960 ERROR DETECTOR/CORRE	2	E138,E139
51	52		23372A2-00	A2-02,A2-04	1	E200
52	53		23054D2-00	D2-02	1	E95
53	54		23055D2-00	D2-02	1	E102
54	55		23056D2-00	D2-02	1	E118
55	56		23057D2-00	D2-02	1	E125
56	57		23058D2-00	D2-02	1	E110
57	58		23059D2-00	D2-02	1	E133
58	59		23060D2-00	D2-02	1	E136
59	60		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
60	61		1219911-01	SKT,IC 24PIN DIP	7	XE95,XE102,XE118,XE125,XE110, CONT XE133,XE136
61	62		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
62	63		9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	
63	64		9000024-01	EYELET,ROLLED 0.1210DX0.192	12	

TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
VAX MEM CNTL MODULE						
			K	PL	M8375-0-DBP	A

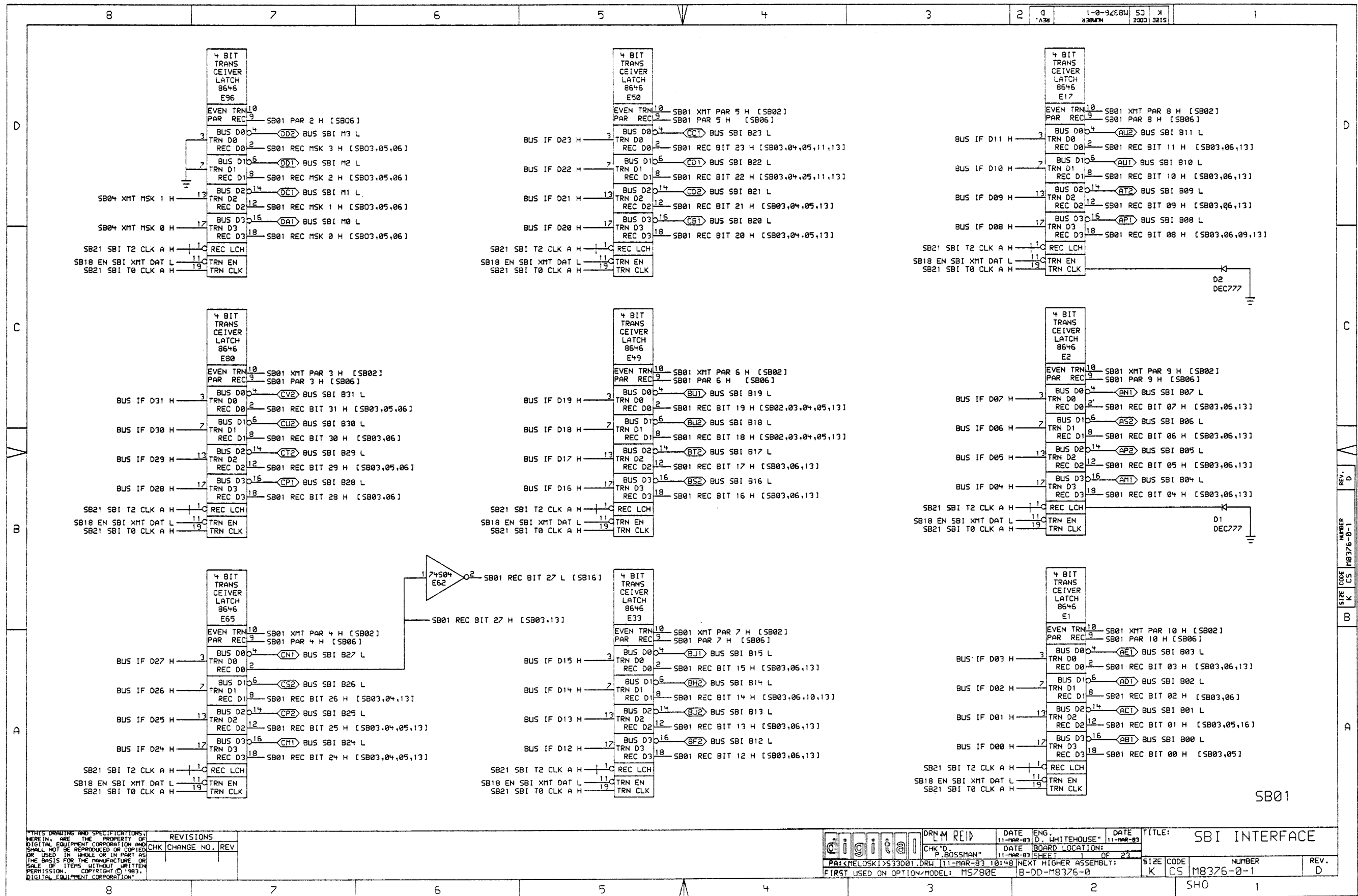


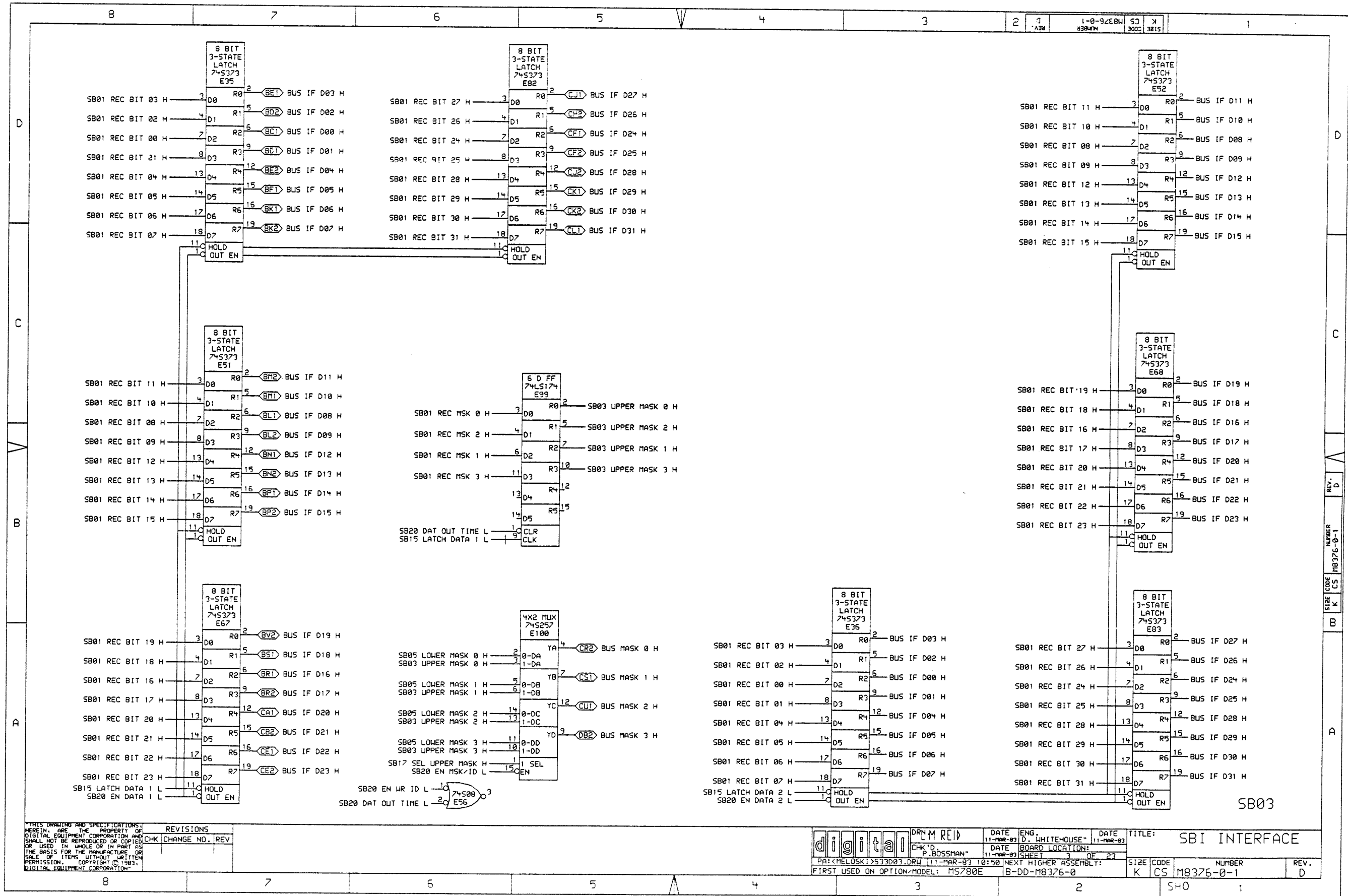
1

A

A

DOCUMENT NUMBER			
DATE	CODE	NUMBER	REV
E	UA	M8376-0-0	E
SCALE		SHEET 2 OF 2	





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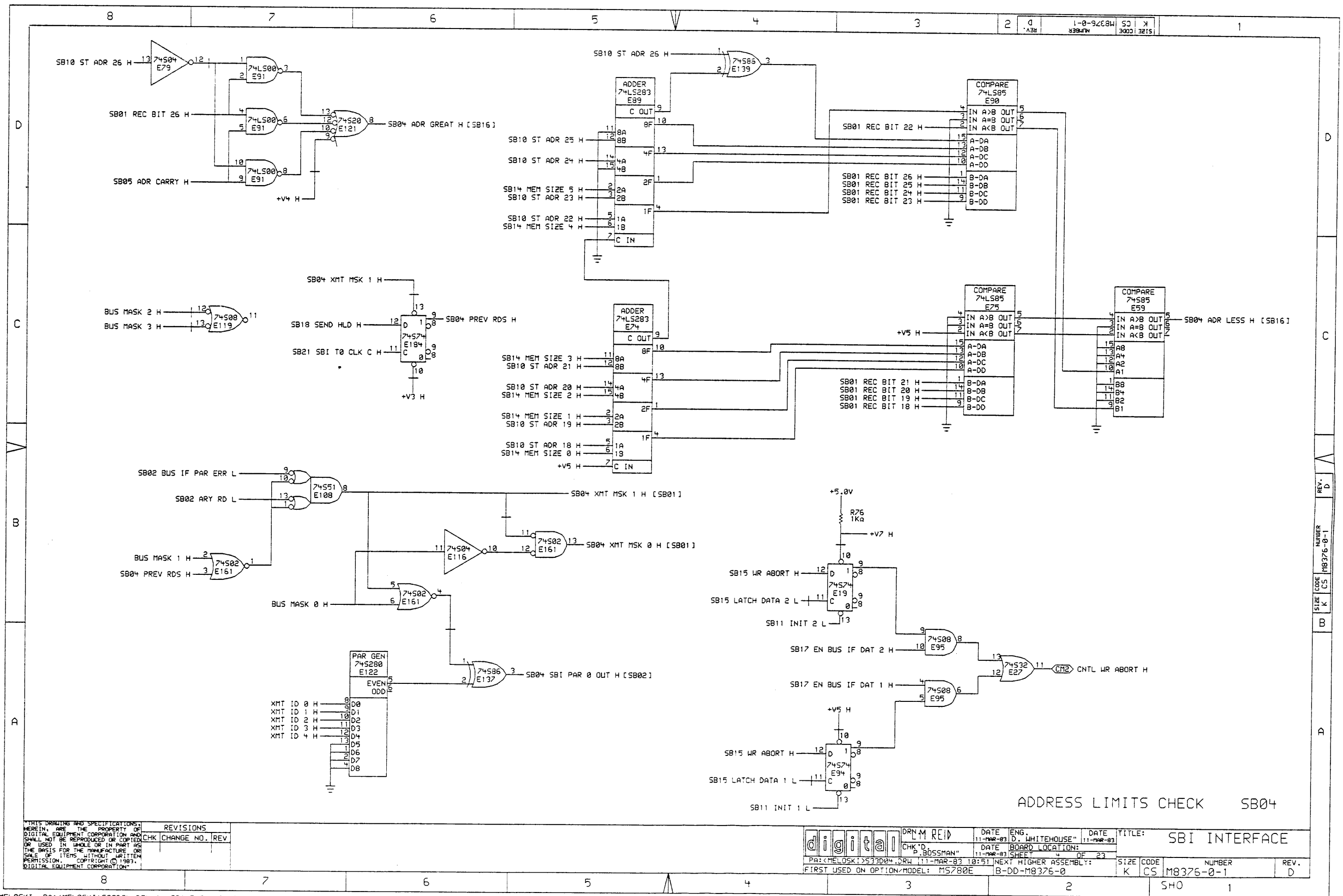
REVISIONS	CHK	CHANGE NO.	REV

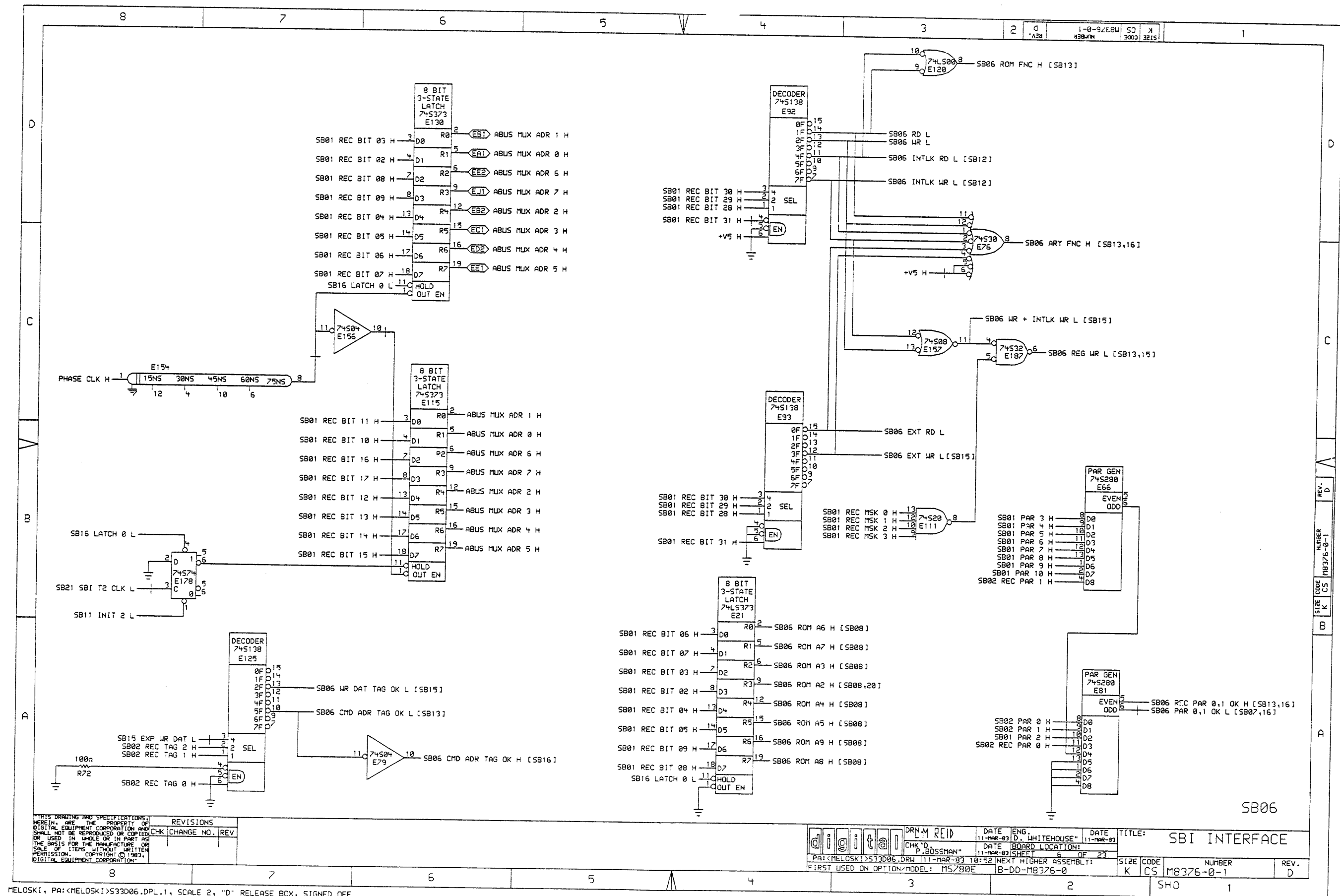
digital DRN M REID
CHK'D
PA:MELOSKI>S33003.DRW 111-MAR-83 10:50
FIRST USED ON OPTION/MODEL: MS280E

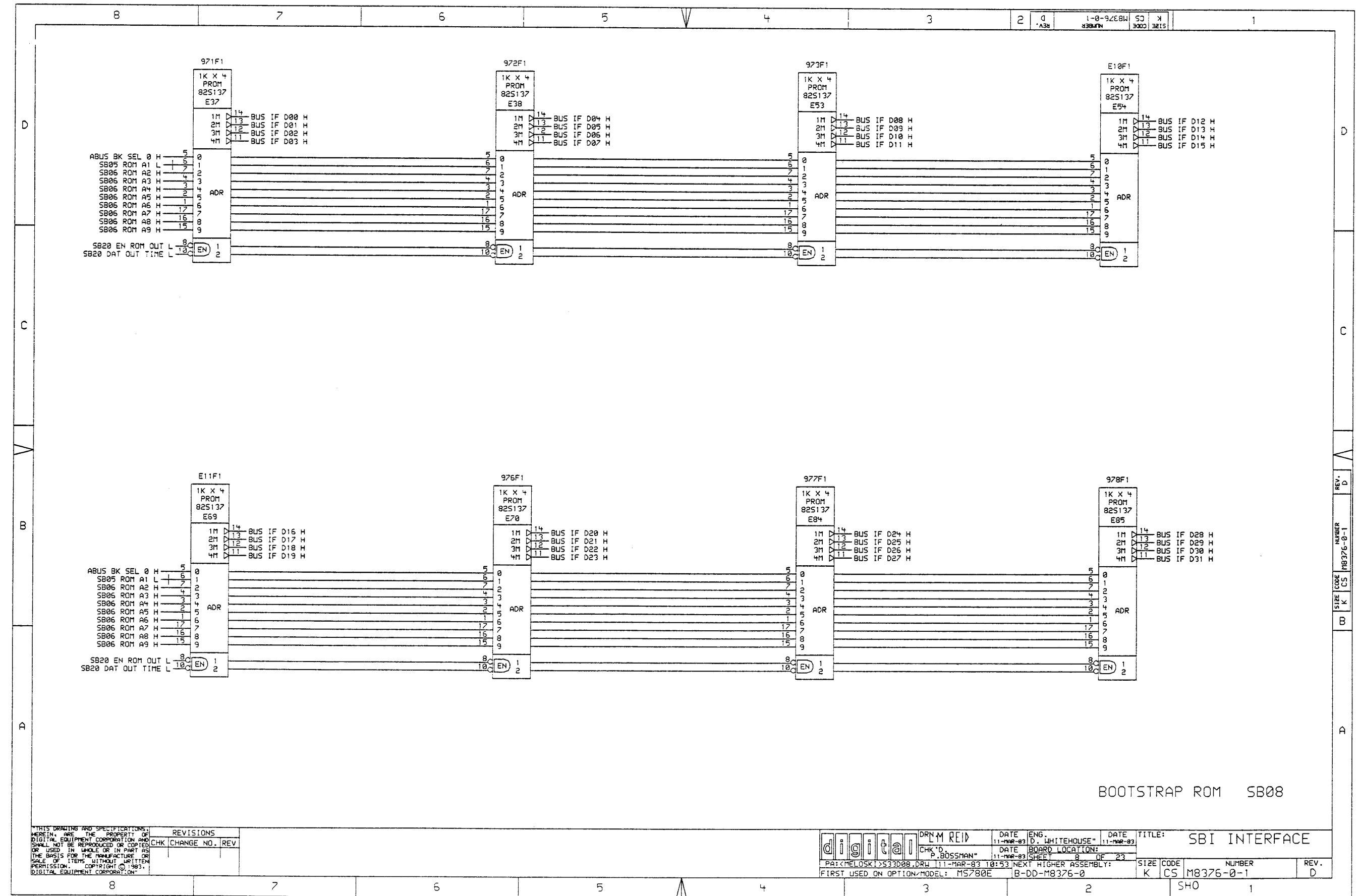
DATE ENG. 11-MAR-83 D. WHITEHOUSE
DATE BOARD LOCATION: 11-MAR-83 P. BOSSMAN
11-MAR-83 SHEET 3 OF 23

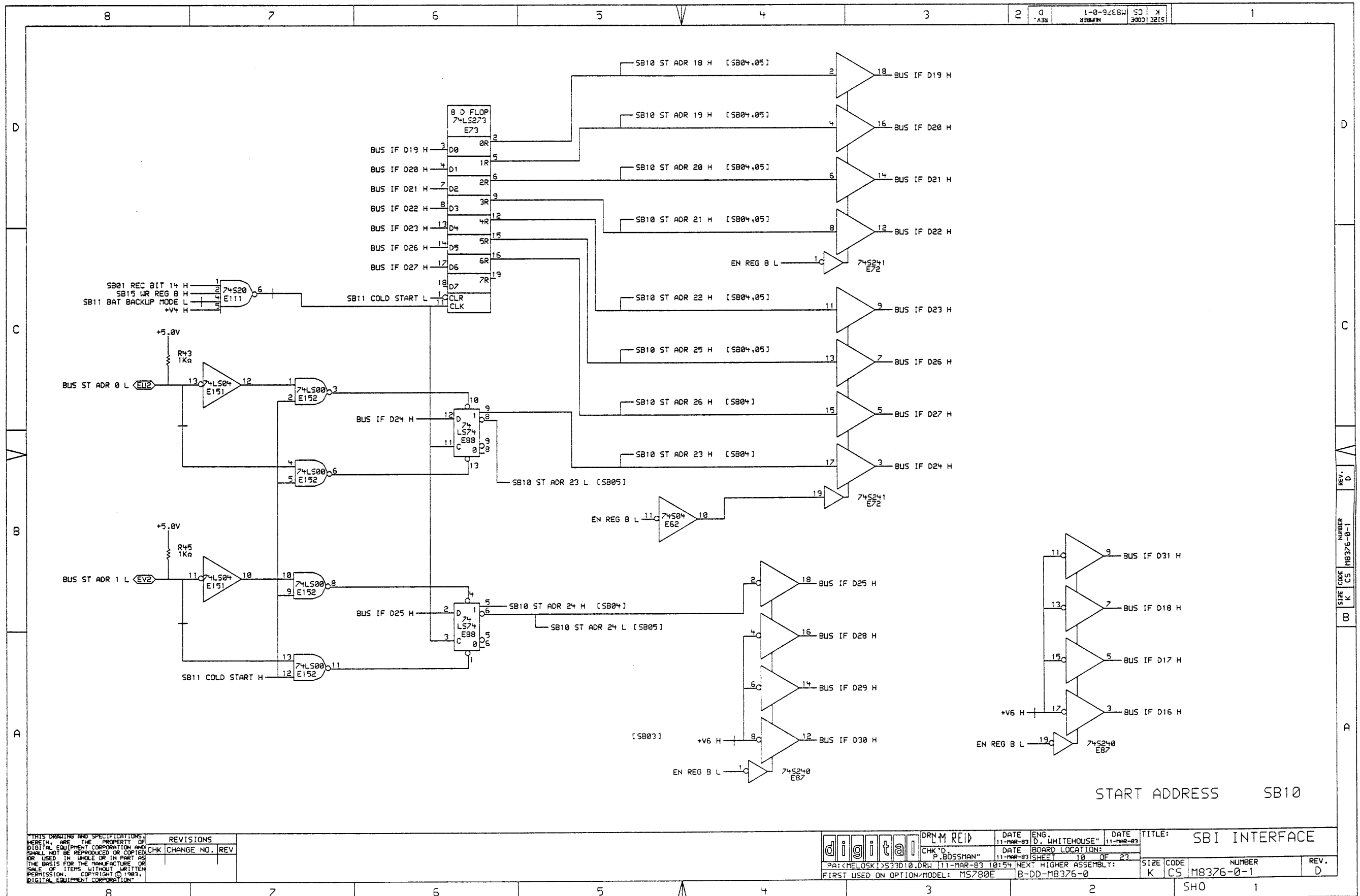
TITLE: SBI INTERFACE
SIZE CODE NUMBER REV.
K CS M8376-0-1 D

540 1









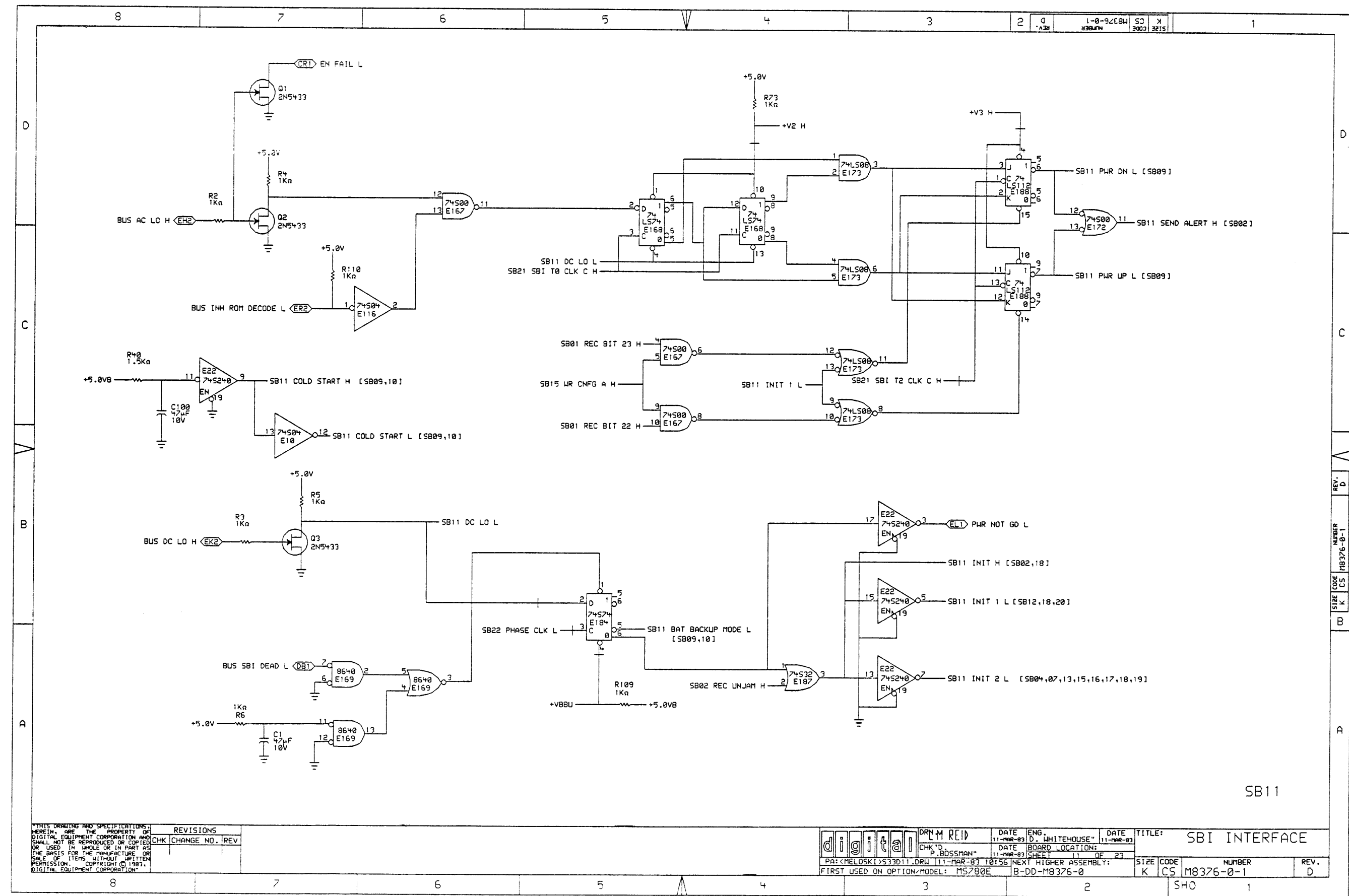
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REVISIONS		
CHK	CHANGE NO.	REV

digital
DRN: M REID
CHK'D: P. BOSSMAN
PA: <MELOSKI>S33D10.DRW
FIRST USED ON OPTION/MODEL: MS780E

DATE: 11-MAR-83
ENG: D. WHITEHOUSE
DATE: 11-MAR-83
BOARD LOCATION: 10
SHEET 10 OF 23
NEXT HIGHER ASSEMBLY: B-DD-M8376-0

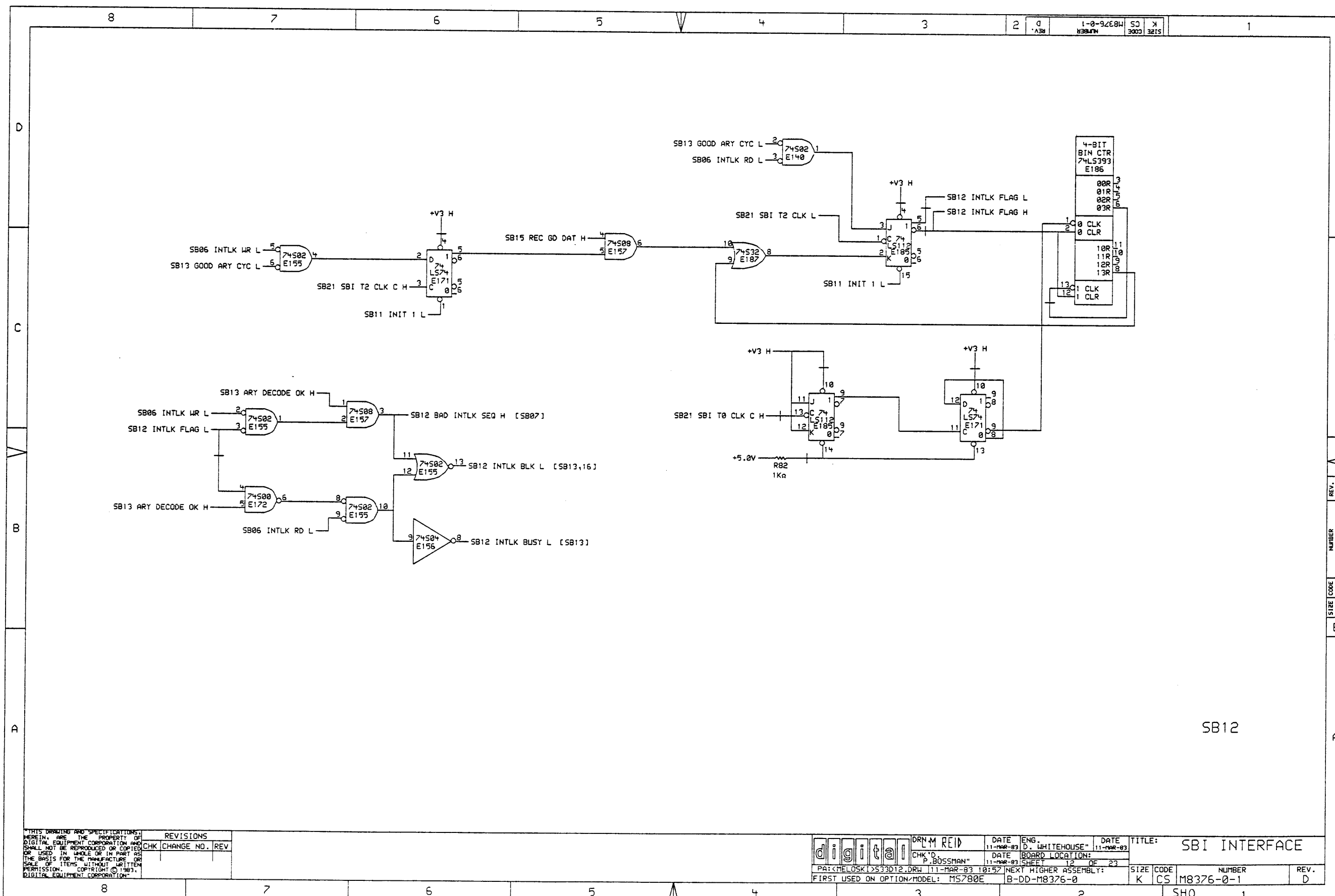
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SIZE: K
CODE: CS
NUMBER: M8376-0-1
REV: D



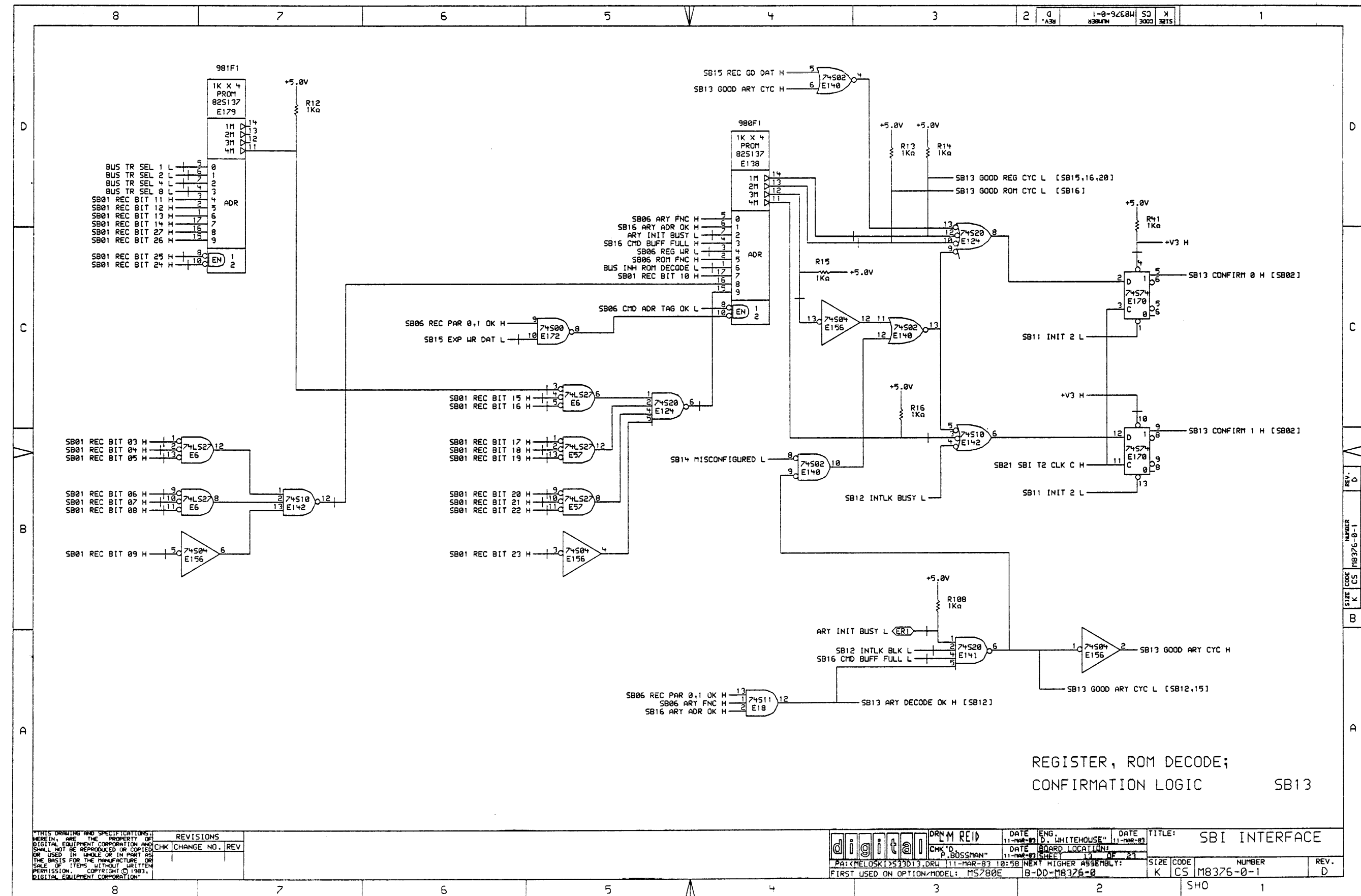
SB11

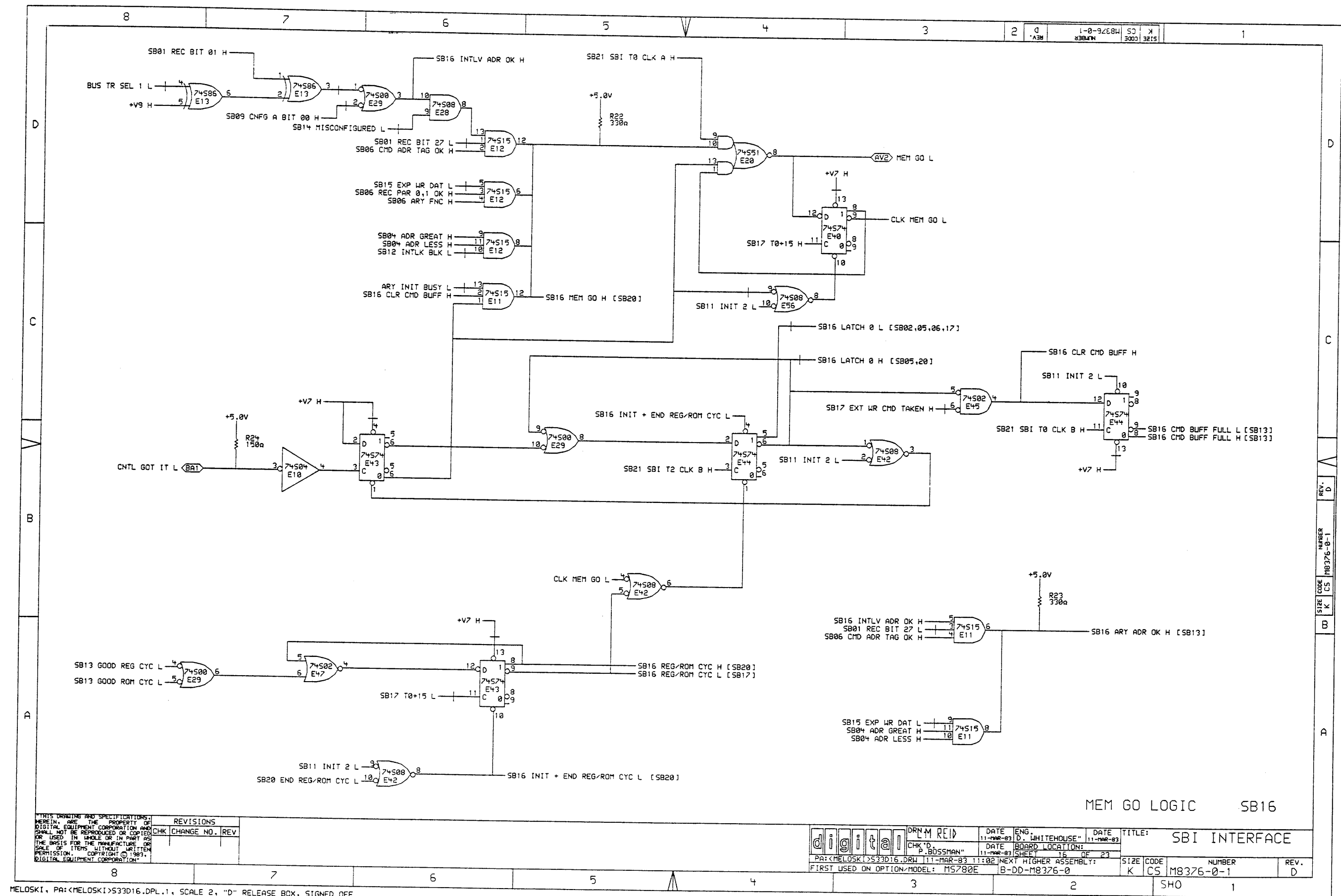
REVISIONS	
CHK	CHANGE NO. REV

digital	DRM REID	DATE	ENG.	DATE	TITLE:
	CHK'D	11-MAR-83	D. WHITEHOUSE	11-MAR-83	SBI INTERFACE
PA: MELOSKI\S33011.DRW		DATE	BOARD LOCATION:	SIZE CODE	
FIRST USED ON OPTION/MODEL: M5780E		11-MAR-83	SHEET 11 OF 23	K CS	
NEXT HIGHER ASSEMBLY:		B-DD-M8376-0		NUMBER	
				REV.	
				D	



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PA:MELOSKI>S33D12.DRW		11-MAR-83 10:52		NEXT HIGHER ASSEMBLY:		SIZE K	CODE CS	NUMBER M8376-0-1	REV. D	
FIRST USED ON OPTION/MODEL: MS780E		B-DD-M8376-0								

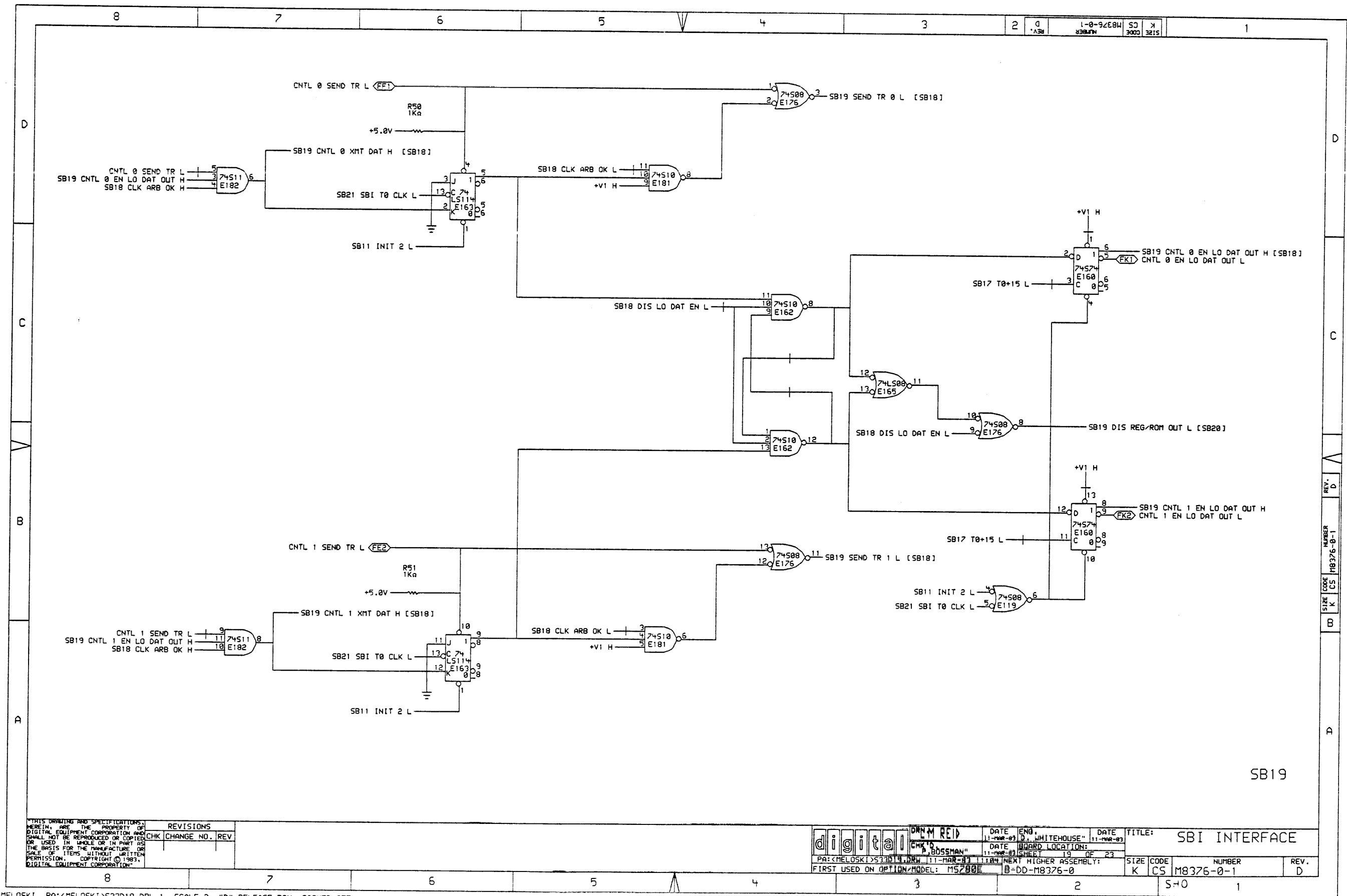


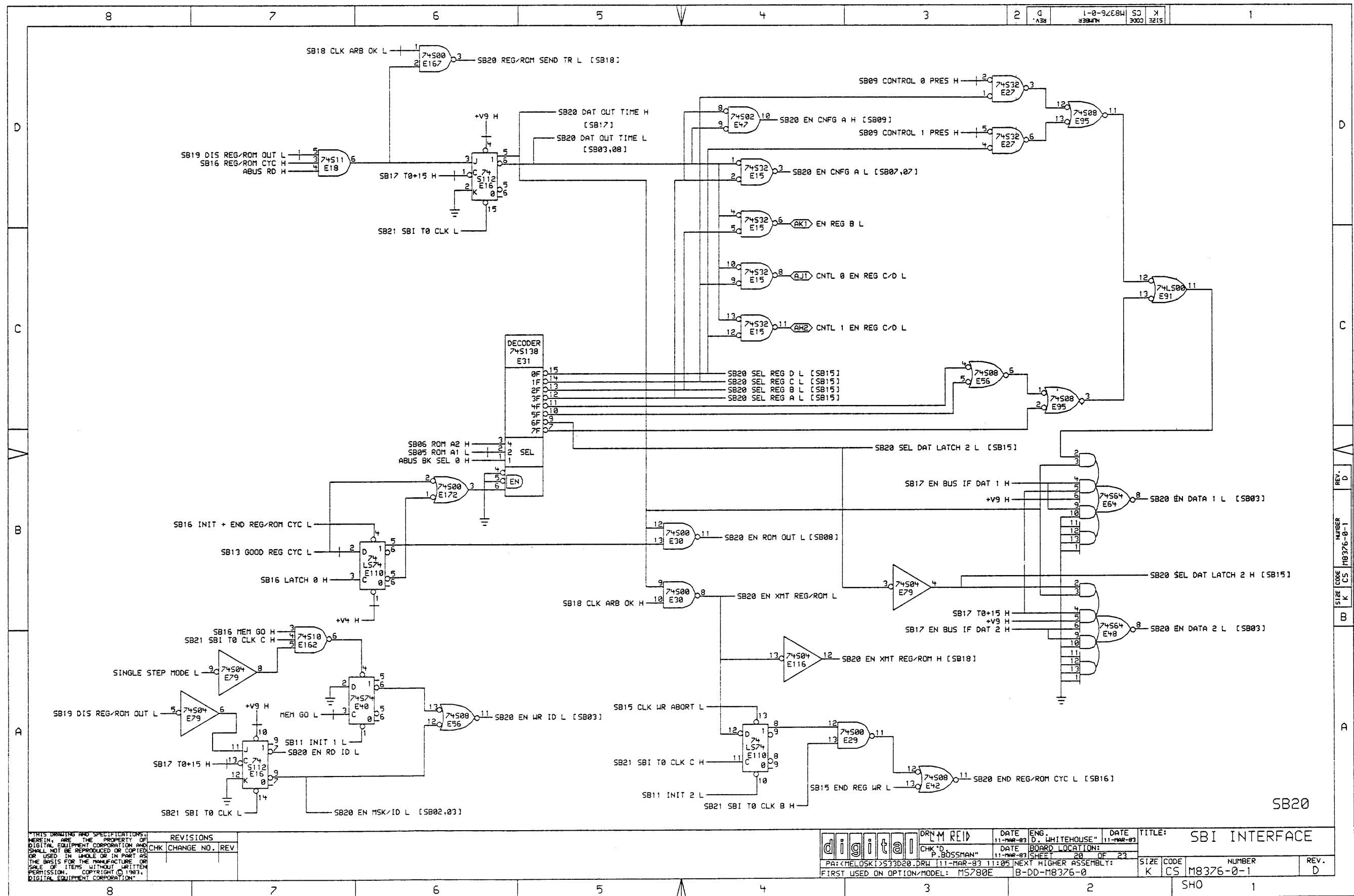


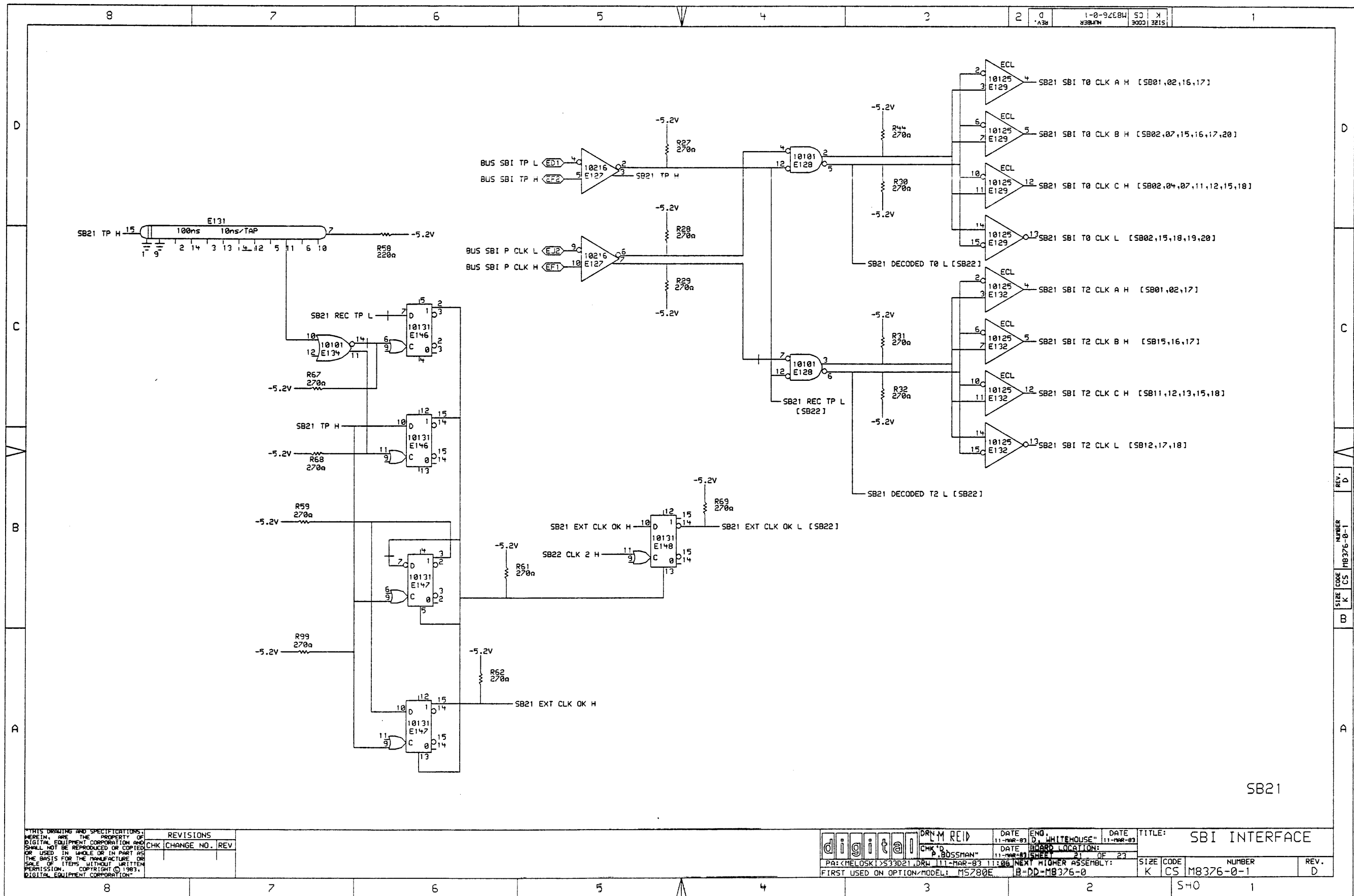
MEM GO LOGIC SB16

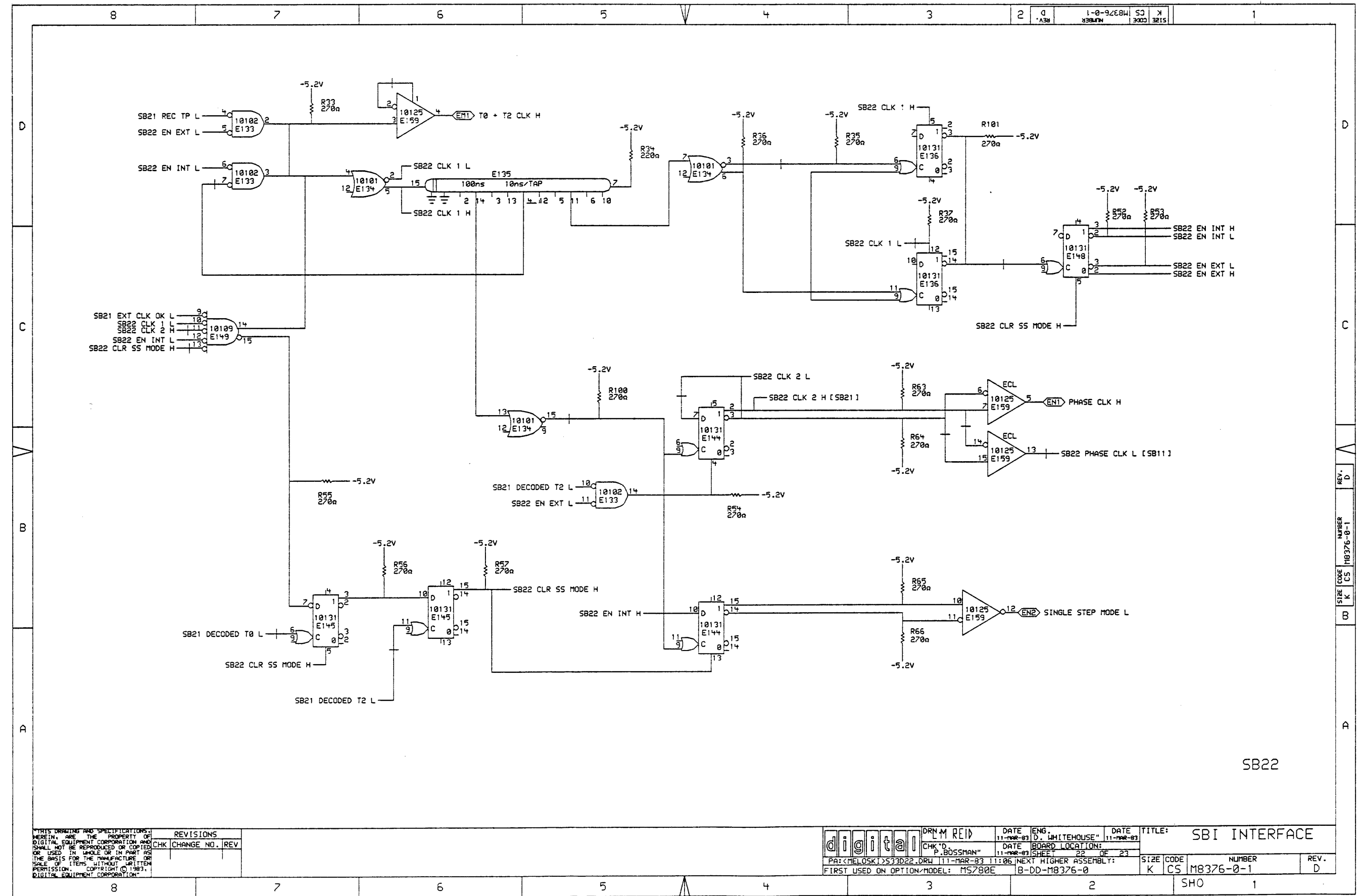
REVISIONS		
CHK	CHANGE NO.	REV

digital	DRM REID	DATE	ENG.	DATE	TITLE:						
		11-MAR-83	D. WHITEHOUSE	11-MAR-83	SBI INTERFACE						
	CHK'D	DATE	BOARD LOCATION:								
	P. BOSSMAN	11-MAR-83	SHEET 16 OF 23								
PA: MELOSKI 533D16.DRW 11-MAR-83 11:02						NEXT HIGHER ASSEMBLY:		SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION-MODEL: M5780E						B-DD-M8376-0		K	CS	M8376-0-1	D





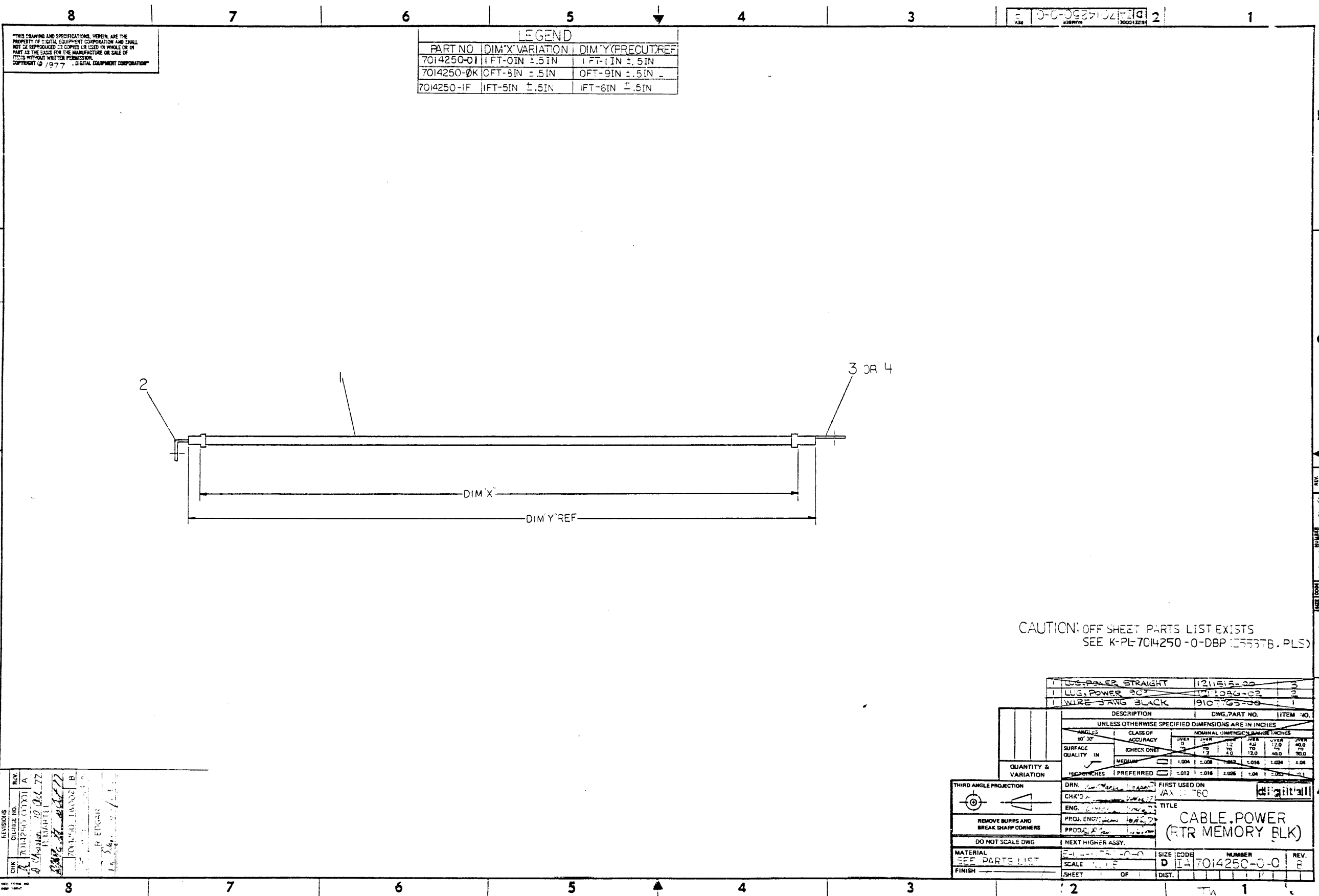




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PA:MELOSKI>S33D22.DRW		CHK'D P. BOSSMAN		DATE 11-MAR-83		BOARD LOCATION: 22 OF 23		NEXT HIGHER ASSEMBLY: B-DD-M8376-0		SIZE CODE K CS
FIRST USED ON OPTION/MODEL: MS780E										NUMBER M8376-0-1
										REV. D

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	B-DD-M8376-0		DRAWING DIRECTORY	REF		
2	2	D-MD-5015059-0-0		CIRCUIT DRILL & ETCH	REF		
3	3	E-EC-5015059-0-0		ETCH CUT DRAWING	REF		
4	4	E-UA-M8376-0-0		UNIT ASSY	REF		
5	5	K-CS-M8376-0-1		CIRCUIT SCHEMATIC	REF		
6	7		5015059-00	DRILL AND ETCH BRD.	1		
7	9		1012784-00	.047 MFD 50V +80-20% CER	51		C2-C43,C51-C59
8	10		1016549-00	47 MFD 10V +50-10% AL EL	9		C1,C100,C44-C50
9	11		1103041-00	PIV= 8 IO= 50 MA	2		D1,D2
10	12		1110324-01	LED 1MCD@10MA PIV=3 .750 MIN. LE	1		D4
11	13		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1		
12	14		1300229-00	100.0 .25 W 5.0 % CF	1		R72
13	15		1300250-00	150.0 .25 W 5.0 % CF	3		R7,R24,R26
14	16		1300271-00	220.0 .25 W 5.0 % CF	2		R34,R58
15	17		1300295-00	330.0 .25 W 5.0 % CF	5		R21-R23,R42,R70
16	18		1300365-00	1.0 K .25 W 5.0 % CF	39		R1-R6,R8-R10,R12-R20,R41,R43, CONT R45,R50,R51,R73,R74,R78-R83,R88, CONT R89,R103,R107-R110,R76
17	19		1300391-00	1.50 K .25 W 5.0 % CF	1		R40
18	21		1301972-00	270.0 .25 W 5.0 % CF	30		R27-R33,R35-R37,R44,R52-R57,R59, CONT R61-R69,R99-R101
19	22		1511686-00	DECS433 FET N 350MW 10 25 1A	3		Q1-Q3
20	23		1610033-00	DELAY= 10-100NS,10TAPS	2		E131,E135
21	24		1616322-00	DELAY= 75NS,5TAPS	2		E32,E154
22	25		1910532-00	74S00 NAND GATE-QUAD 2IN	4		E29,E30,E167,E172
23	26		1910534-00	74S04 INVERTER GATE-HEX 1I	5		E62,E116,E79,E10,E156
24	27		1910536-00	74S10 NAND GATE-TRIPLE 3IN	3		E162,E142,E181
25	28		1910537-00	74S11 AND GATE-TRIPLE 3INP	5		E3,E4,E18,E182,E183
26	29		1910538-00	74S15 AND GATE-TRIPLE 3IN	2		E11,E12
27	30		1910539-00	74S20 NAND GATE-DUAL 4INPU	4		E124,E141,E111,E121

REVISION HISTORY			BASIC PART NO: M8376		DRN: V.MANGAUDIS		DATE: 16-JUN-81		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: P.BOSSMAN		DATE: 15-JUN-81		TITLE PARTS LIST			
	INITIAL	A	SECTION VARIATION INDEX		DES.ENG: D. WHITEHOUSE		DATE: 19-JUL-82		DOCUMENT NUMBER			
DW	M8376-SH001	B	[A] 00		RESP.ENG.: D. WHITEHOUSE		DATE: 19-JUL-82		SIZE: CODE: NUMBER		REV	
DW	M8376-SH002	C	[B]		MFG.ENG.: E. BALL		DATE: 19-AUG-82		K	PL	M8376-0-DBP	E
DW	M8376-SH003	D	[C]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
JL	M8376-SH004	E	[D]		E-UA-M8376-0-0		#B-DD-M8376-0		Z2365E.PLS		25	
			[E]									
			[F]									
			[H]									
			[J]									
			[K]									
			[L]									
			[M]									
			[N]									
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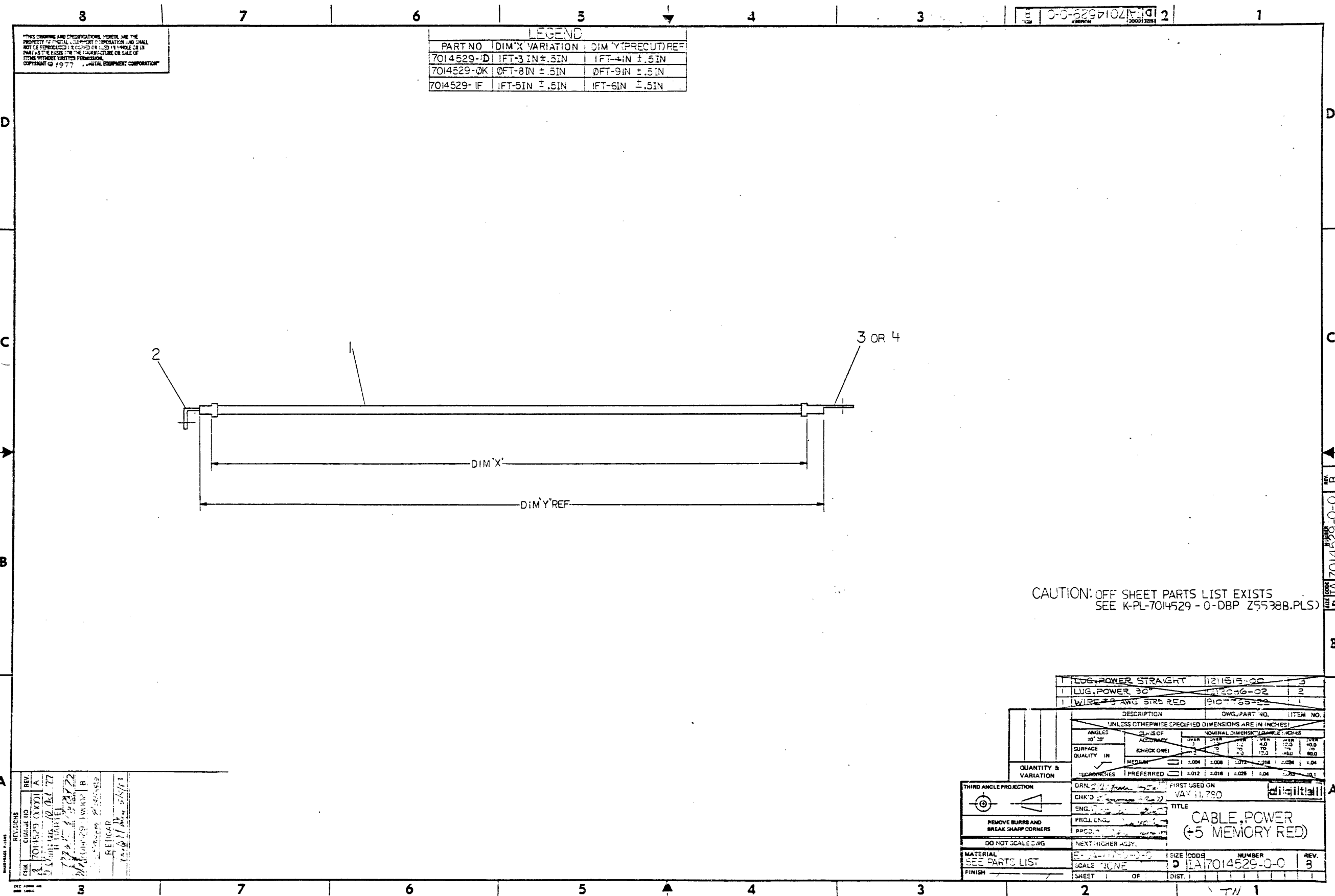
LEGEND		
PART NO.	DIM X VARIATION	DIM Y (PRECUT) REF
7014250-01	IFT-0IN ±.5IN	IFT-1IN ±.5IN
7014250-0K	OFT-8IN ±.5IN	OFT-9IN ±.5IN
7014250-1F	IFT-5IN ±.5IN	IFT-6IN ±.5IN

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7014250-0-DBP (55376, PLS)

1	WIRE POWER STRAIGHT	1211515-02	3
1	LUG POWER 30°	1211515-02	2
1	WIRE BANG BLACK	1910725-00	1

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSIONS IN INCHES	
30° 30'		OVER 0 TO 12	OVER 12 TO 40.0
SURFACE QUALITY	(CHECK ONE)	12 TO 40.0	40.0 TO 50.0
MEDIUM		12 TO 40.0	40.0 TO 50.0
MICRONOMETER	PREFERRED	±.012 ±.016 ±.020 ±.024 ±.028 ±.032	±.036 ±.040 ±.044 ±.048 ±.052 ±.056

THIRD ANGLE PROJECTION	DRN. [Signature]	FIRST USED ON	DATE
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D [Signature]	JAX 11-780	11-780
DO NOT SCALE DWG	ENG. [Signature]	TITLE	
MATERIAL SEE PARTS LIST	PROJ. ENG. [Signature]	CABLE POWER (RTR MEMORY BLK)	
FINISH	PROD. [Signature]	NUMBER	
		D 11A 7014250-0-0	REV. 8
		SHEET OF	DIST.



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LEGEND		
PART NO	DIM X VARIATION	DIM Y (PRECUT) REF
7014529-D	1 FT-3 IN ±.5 IN	1 FT-4 IN ±.5 IN
7014529-OK	0 FT-8 IN ±.5 IN	0 FT-9 IN ±.5 IN
7014529-IF	1 FT-5 IN ±.5 IN	1 FT-6 IN ±.5 IN

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7014529 - 0-DBP Z5538B.PLS)

REV	DATE	BY	CHKD
1	10/11/77	W. H. HART	W. H. HART
2	10/11/77	W. H. HART	W. H. HART
3	10/11/77	W. H. HART	W. H. HART
4	10/11/77	W. H. HART	W. H. HART
5	10/11/77	W. H. HART	W. H. HART
6	10/11/77	W. H. HART	W. H. HART
7	10/11/77	W. H. HART	W. H. HART
8	10/11/77	W. H. HART	W. H. HART

1	LUG, POWER STRAIGHT	1211513-00	3
1	LUG, POWER 90°	1212036-02	2
1	WIRE #8 AWG STRD RED	9107355-22	1

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 90°/20°	CLASS OF ACCURACY	NOMINAL DIMENSIONS IN INCHES
SURFACE QUALITY	IN	(CHECK ONE)
MEDIUM	1.004	1.008
PREFERRED	1.012	1.016
1.020	1.024	1.028

QUANTITY & VARIATION	THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	MATERIAL SEE PARTS LIST	FINISH
DRN: 10/11/77	CHK'D: 10/11/77	ENG: 10/11/77	PROL ENG: 10/11/77	PROD: 10/11/77	NEXT HIGHER AGY.

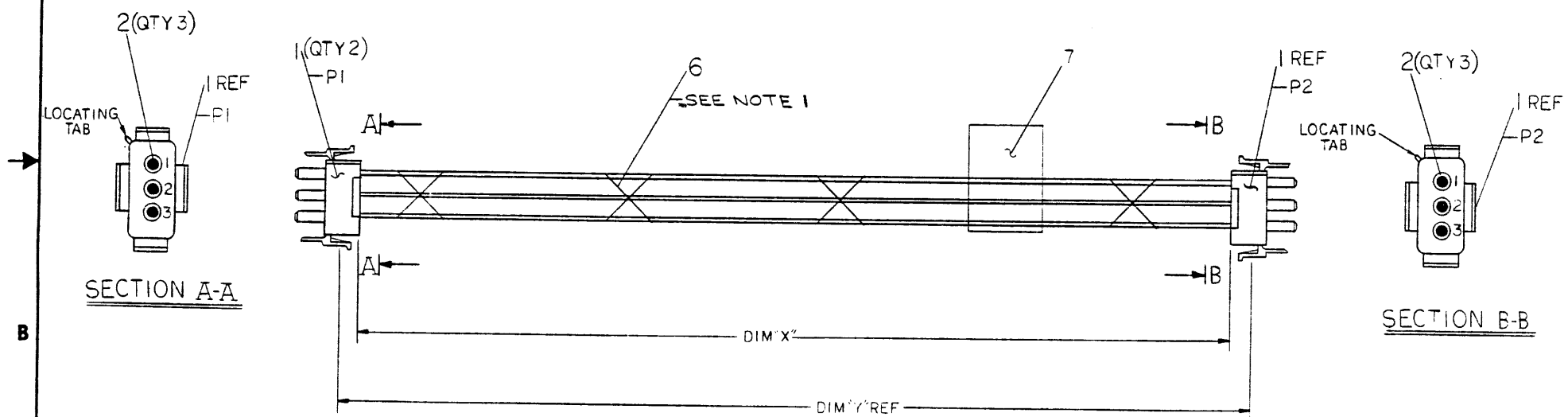
TITLE CABLE, POWER (+5 MEMORY RED)	
SIZE CODE D	NUMBER 1A7014529-0-0
SCALE NONE	DIST.

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WIRE TABLE						
ITEM NO	DESCRIPTION	FROM	TO	REMARKS		
4	18 YELLOW	PI-1	1&2	P2-1	1&2	
5	18 VIOLET	PI-2	1&2	P2-2	1&2	
3	18 BLACK	PI-3	1&2	P2-3	1&2	

LEGEND		
NUMBER	DIM X VARIATION	DIM Y (PRECUT) REF
7014212-0H	0FT-7IN ±.5IN	0FT-8IN ±.5IN
7014212-0M	0FT-11IN ±.5IN	1FT-0IN ±.5IN
7014212-1C	1FT-3IN ±.5IN	1FT-4IN ±.5IN
7014212-2C	2FT-3IN ±.5IN	2FT-4IN ±.5IN
7014212-2M	2FT-11IN ±.5IN	3FT-0IN ±.5IN

NOTES:
1. USE CABLE TIES (ITEM #6) APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY.

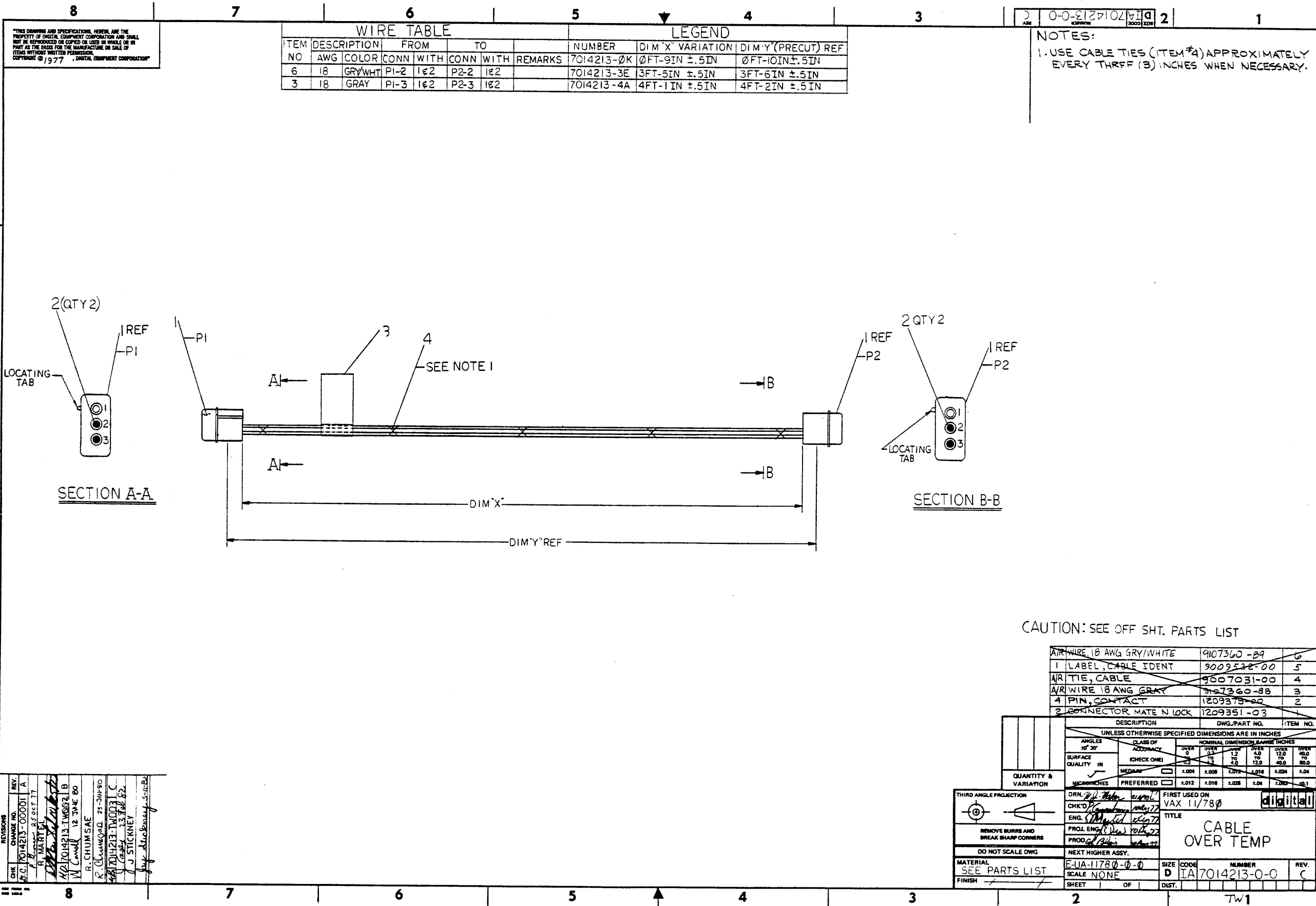


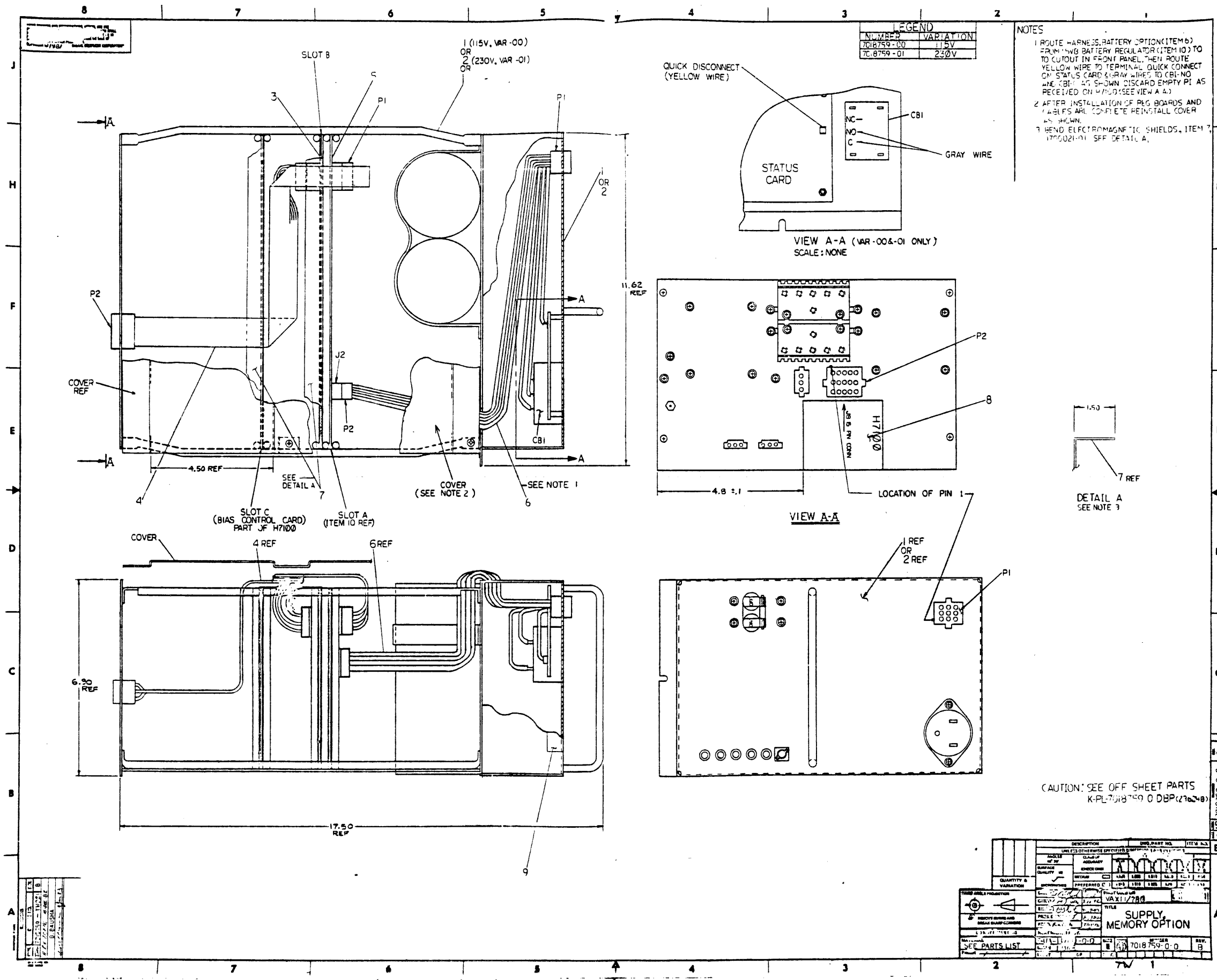
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K-FL-7014212-0-DBP.(Z4473C,PLS).

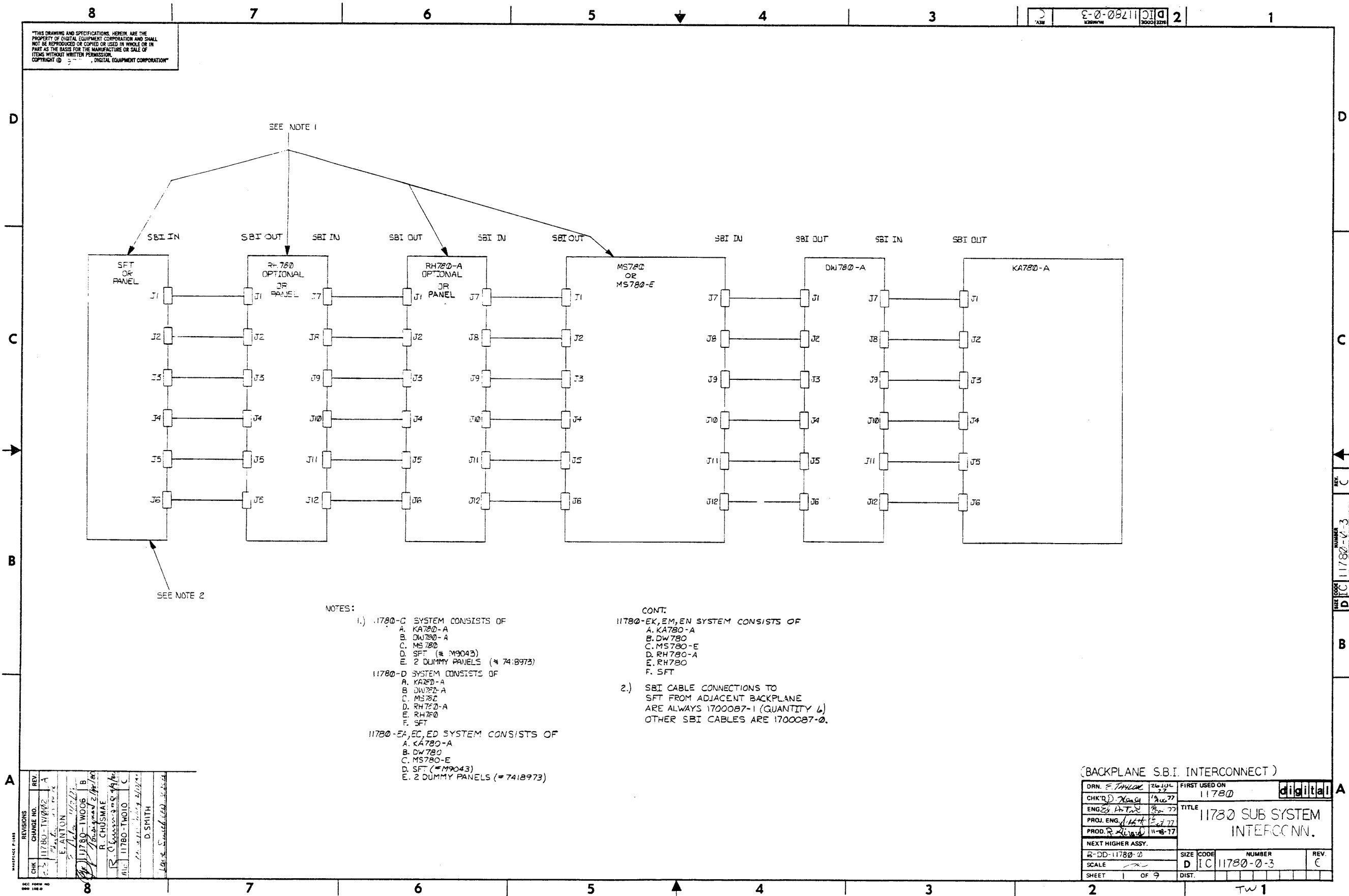
1 LABEL, CABLE IDENT.	3009532-00	7
1 TIE, CABLE	3007031-00	6
18 WIRE 18 AWG VIOLET	9107360-77	5
18 WIRE 18 AWG YELLOW	9107360-44	4
18 WIRE 18 AWG BLACK	9107360-00	3
6 SOCKET, CONTACT	1212170-00	2
2 CONNECTOR, UNIVERSAL	1212167-00	1

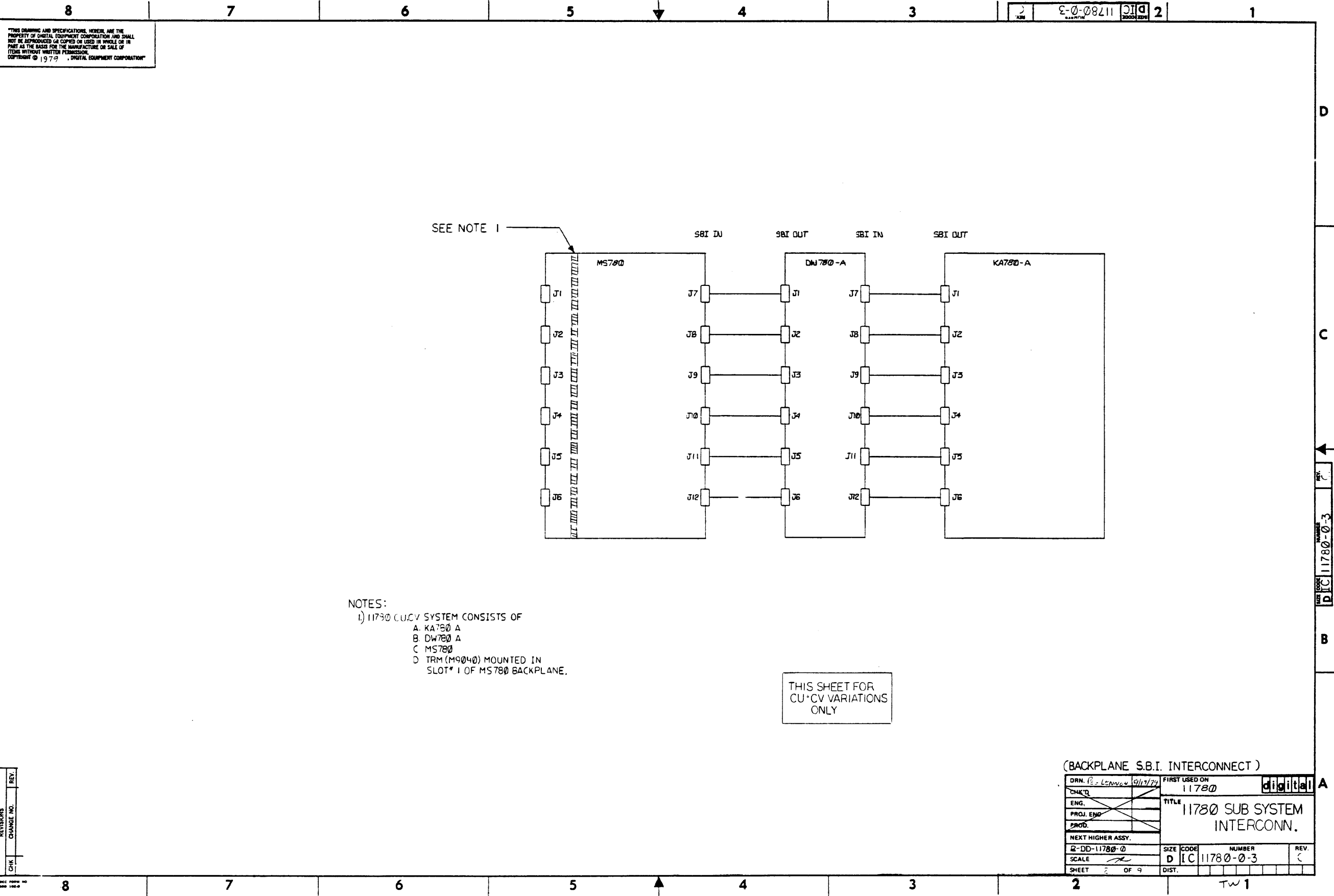
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	MATERIAL SEE PARTS LIST	FINISH
QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.	
ANGLES 10° 30°	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES		
SURFACE QUALITY IN	MEDIAN	OVER 0	OVER 0.5	OVER 1.2
MICROINCHES	PREFERRED	1.004	1.008	1.012
DRN. 11/11/80	CHK'D 11/11/80	ENG. 11/11/80	PROJ. 11/11/80	FIRST USED ON
TITLE				CABLE A.C., D.C. LOW
SIZE				D
SCALE				1/16" = 1"
SHEET				1 OF 1
DIST.				

REV.	DATE	BY	CHKD	DESCRIPTION
1	11/11/80	11/11/80	11/11/80	11/11/80
2	11/11/80	11/11/80	11/11/80	11/11/80
3	11/11/80	11/11/80	11/11/80	11/11/80
4	11/11/80	11/11/80	11/11/80	11/11/80
5	11/11/80	11/11/80	11/11/80	11/11/80
6	11/11/80	11/11/80	11/11/80	11/11/80
7	11/11/80	11/11/80	11/11/80	11/11/80
8	11/11/80	11/11/80	11/11/80	11/11/80









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D

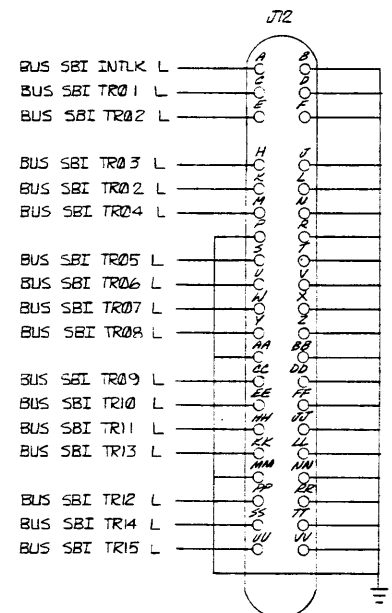
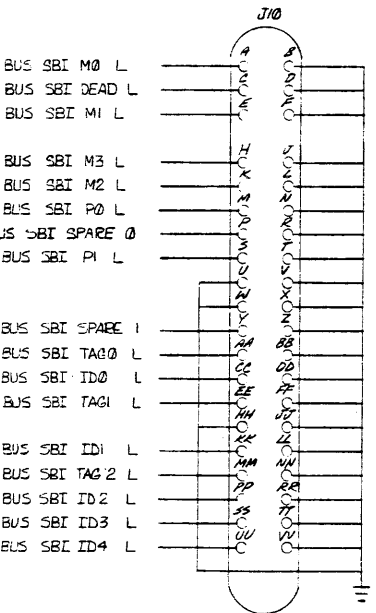
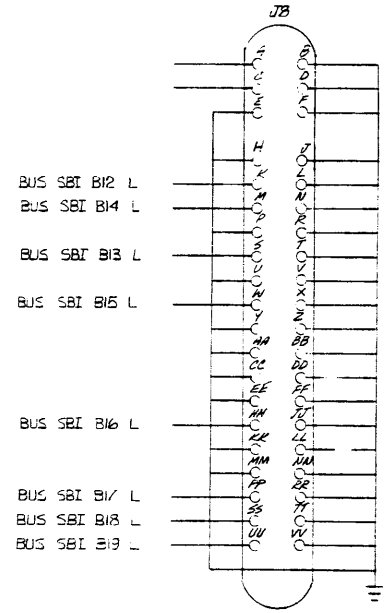
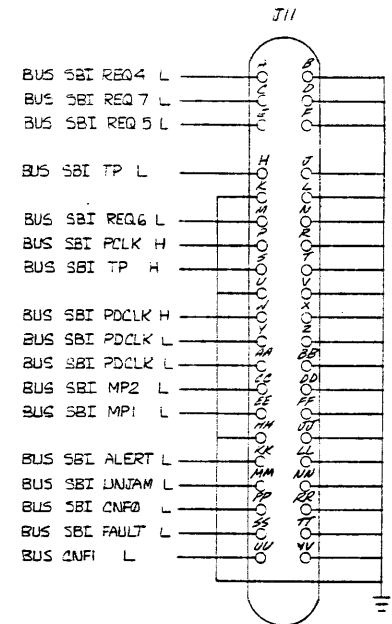
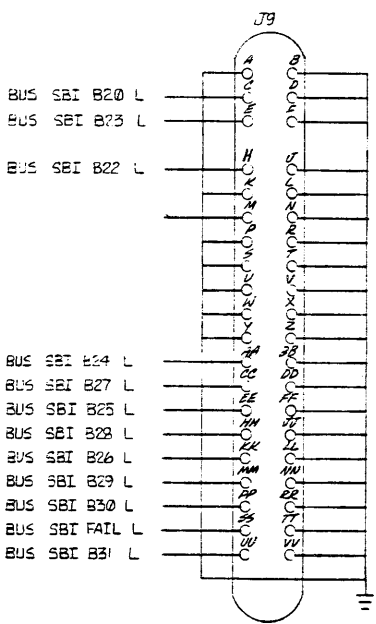
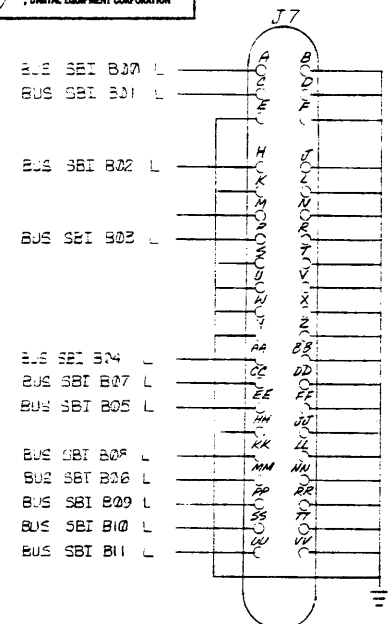
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B

A

REVISIONS	
CHK	CHANGE NO.

DEC 1977



D

C

B

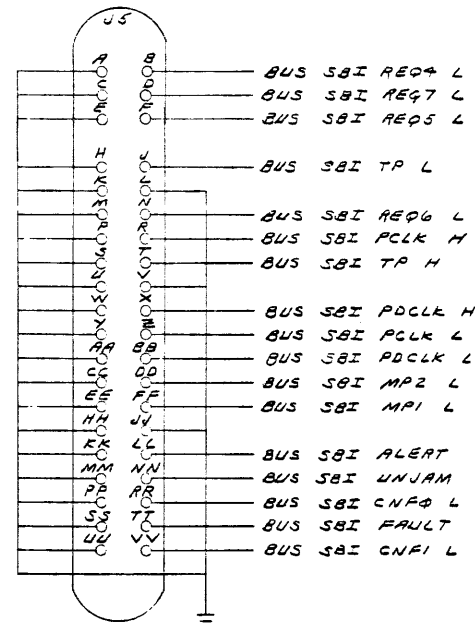
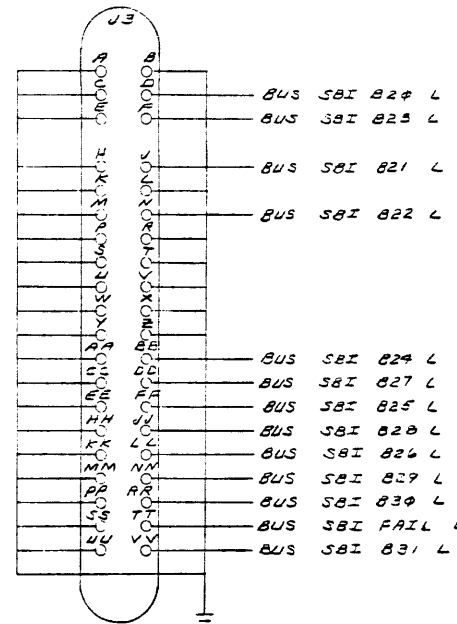
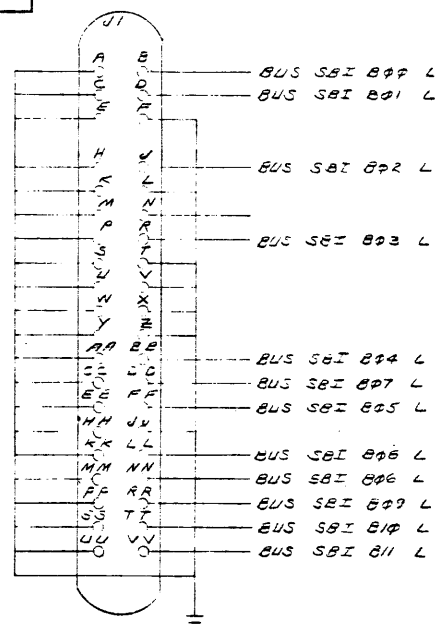
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(SBI IN)

DRN. E. Taylor	25 494	FIRST USED ON	11780	digital	
CHK'D. J. M. M. J.	16 494	TITLE	11780 SUB SYSTEM INTERCONNECT		
ENG. E. L. D. M. J.	18 494				
PROJ. ENG. A. J. M. J.	19 494				
PROD. R. J. M. J.	11-18-77	NEXT HIGHER ASSY.			
B-DD-11780		SIZE	CODE	NUMBER	REV.
SCALE		D	IC	11780-0-3	C
SHEET 3 OF 9		DIST.			

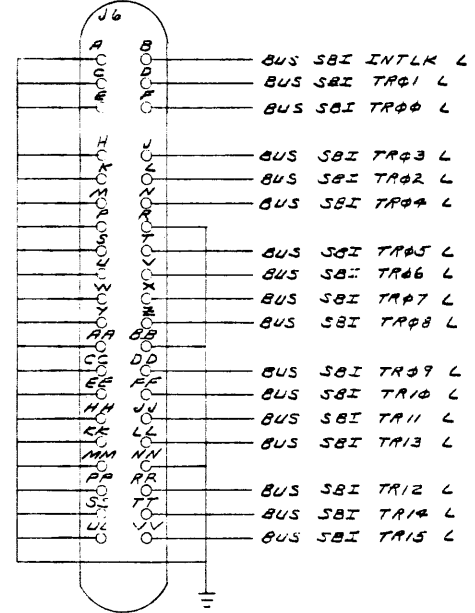
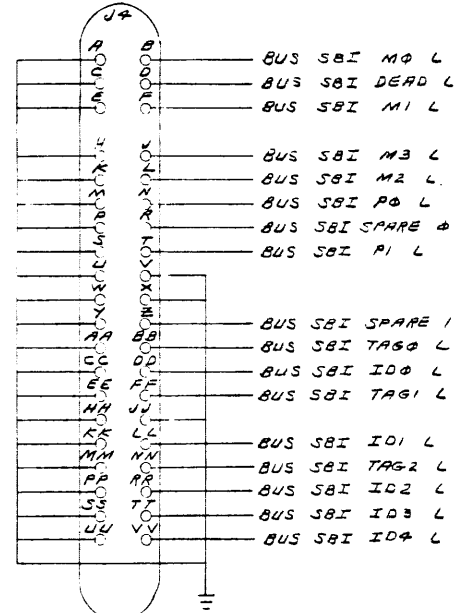
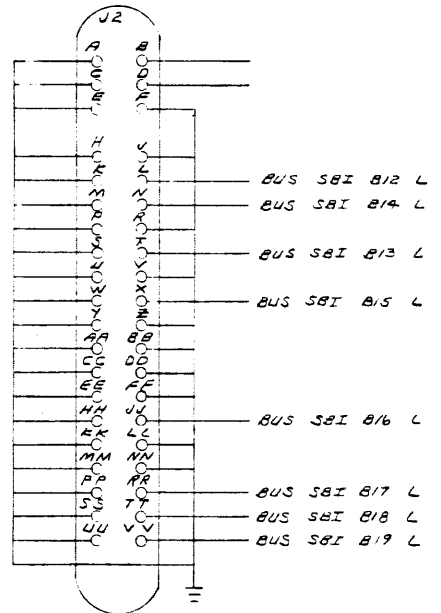
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D



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C



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REV	CHANGE NO.
1	1

DEC FORM NO 000 102-1

(SBI OUT)

DRN: E. T. R. 25-77	FIRST USED ON: 11780	digital		
CHK'D: D. T. R. 25-77	TITLE: 11780 SUB SYSTEM INTERCONNECT			
ENG: E. T. R. 25-77				
PROD: R. T. R. 25-77				
NEXT HIGHER ASSY.				
SCALE: 1:1	SIZE: D	CODE: IC	NUMBER: 11780-0-3	REV: C
SHEET: 4 OF 9		DIST.		

TW 1

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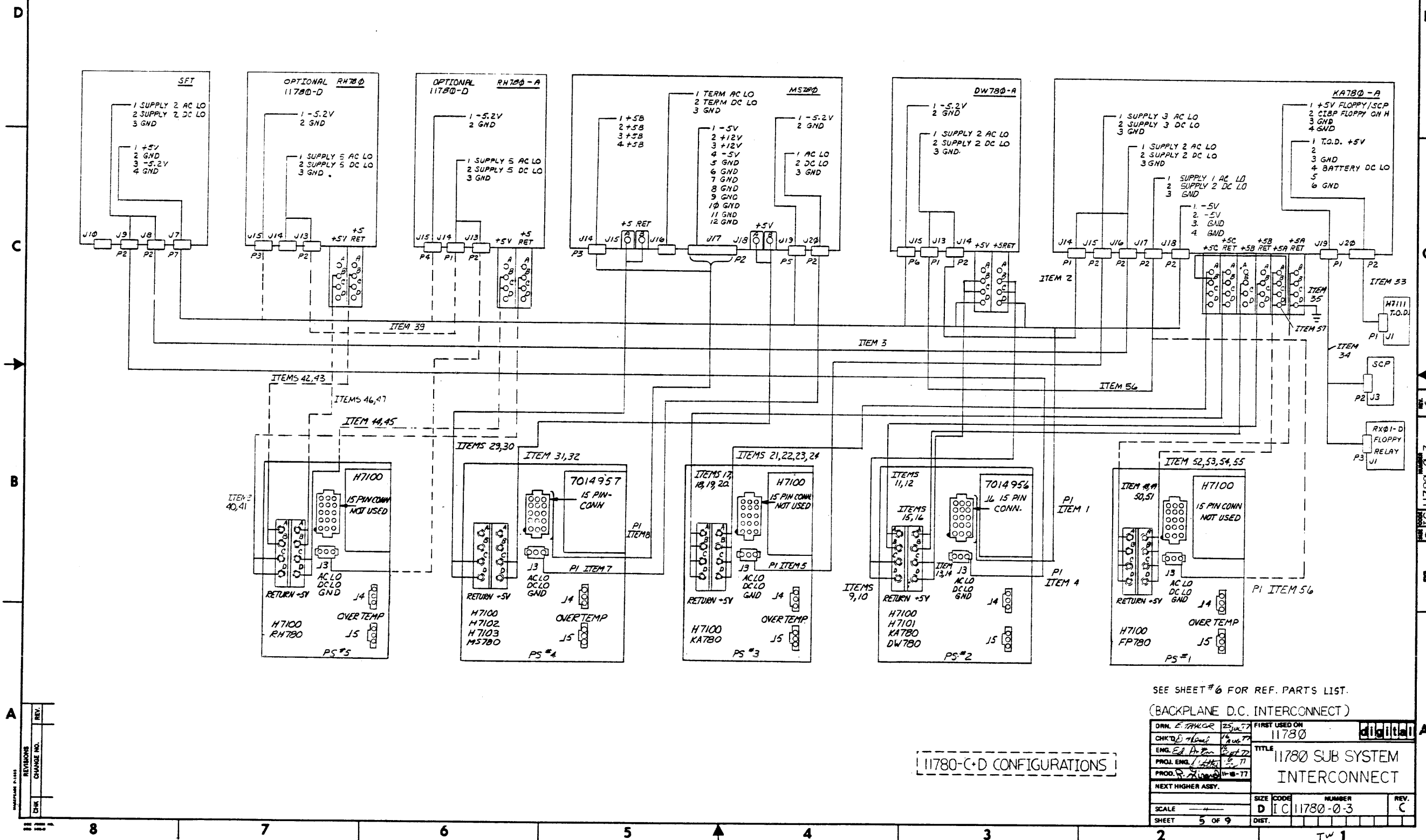
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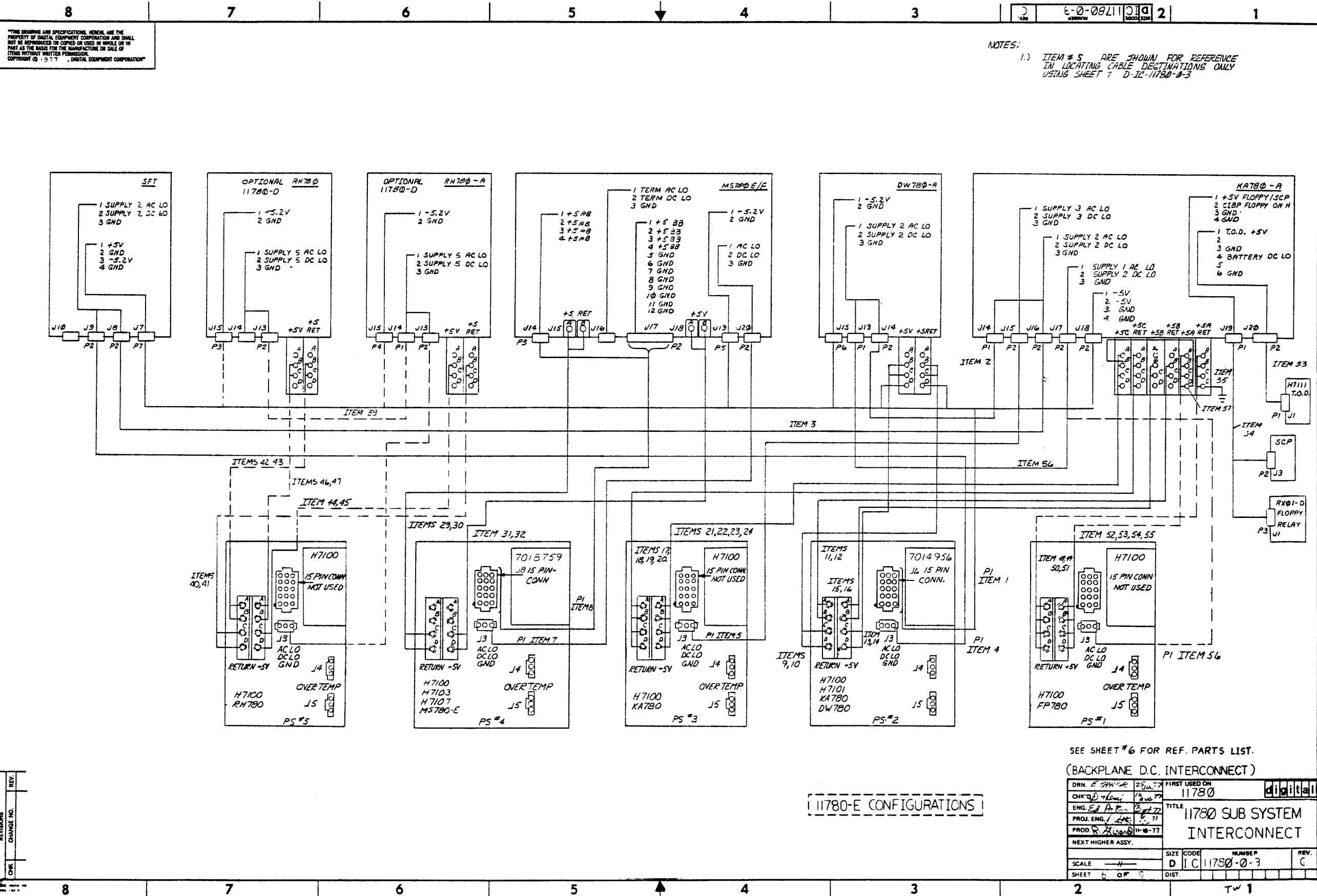
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NOTES:

- 1.) ITEM # 5 ARE SHOWN FOR REFERENCE IN LOCATING CABLE DESTINATIONS ONLY USING SHEET 7 D-IL-11780-0-3

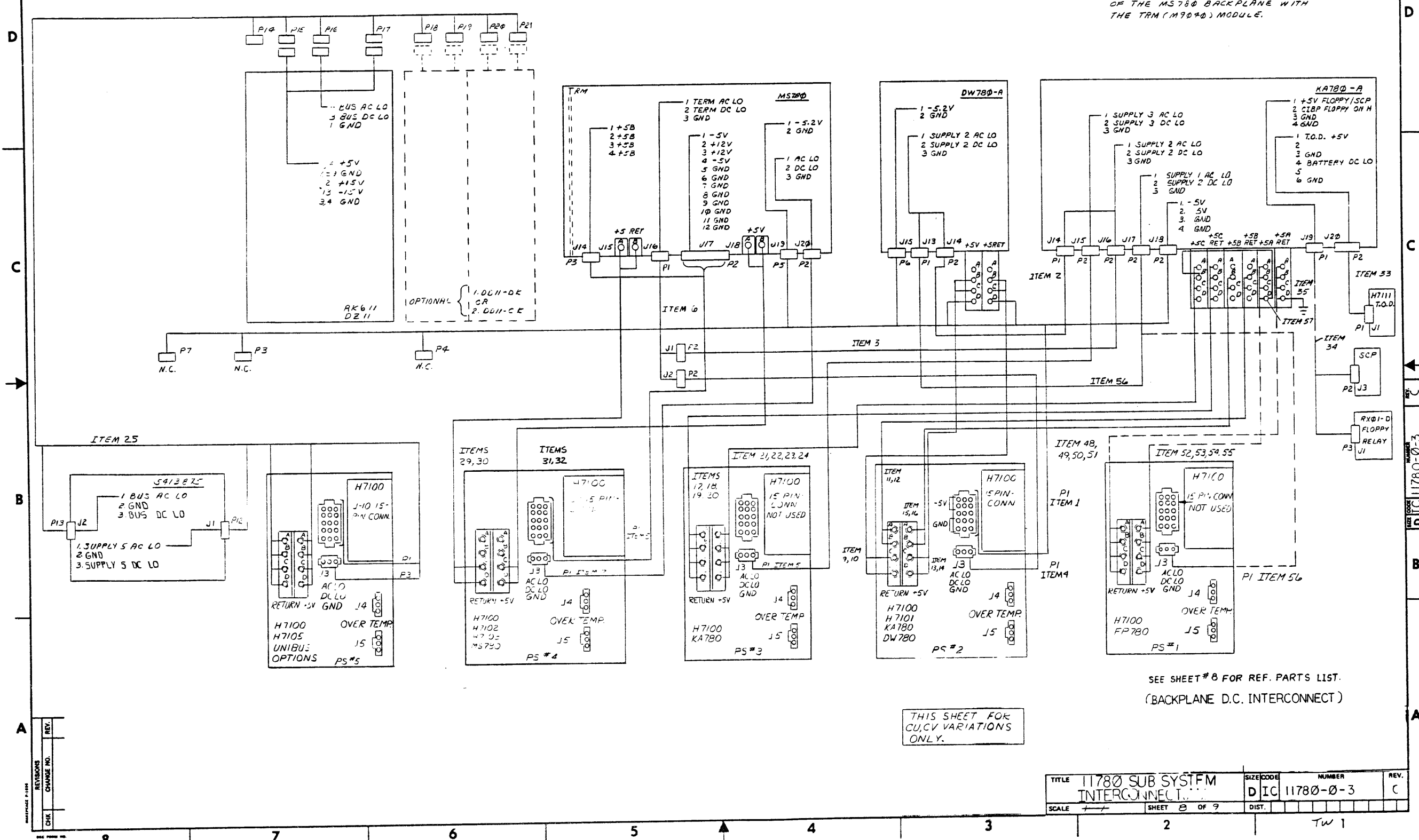




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NOTES:

- 1.) ITEM #5 ARE SHOWN FOR REFERENCE IN LOCATING CABLE DESTINATIONS ONLY USING SHEET 9 D-IC-11780-0-3
- 2.) THE SBI IS TERMINATED IN SLOT #1 OF THE MS780 BACKPLANE WITH THE TRM (M9040) MODULE.



SEE SHEET #8 FOR REF. PARTS LIST.
(BACKPLANE D.C. INTERCONNECT)

THIS SHEET FOR
C.V. VARIATIONS
ONLY.

TITLE		SIZE CODE	NUMBER	REV.
11780 SUB SYSTEM FM INTERCONNECT		D IC	11780-0-3	C
SCALE		SHEET		DIST.
1:1		8 OF 9		

8

7

H-H-084SW

C11

6

5

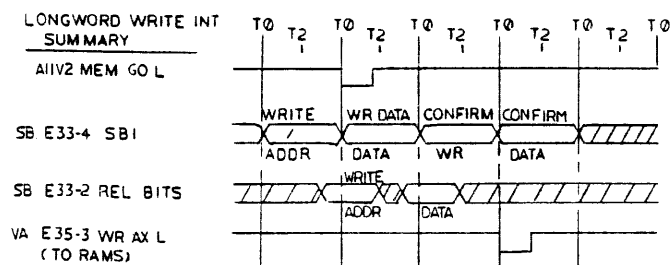
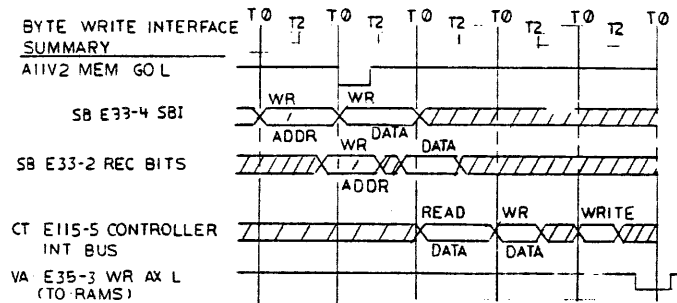
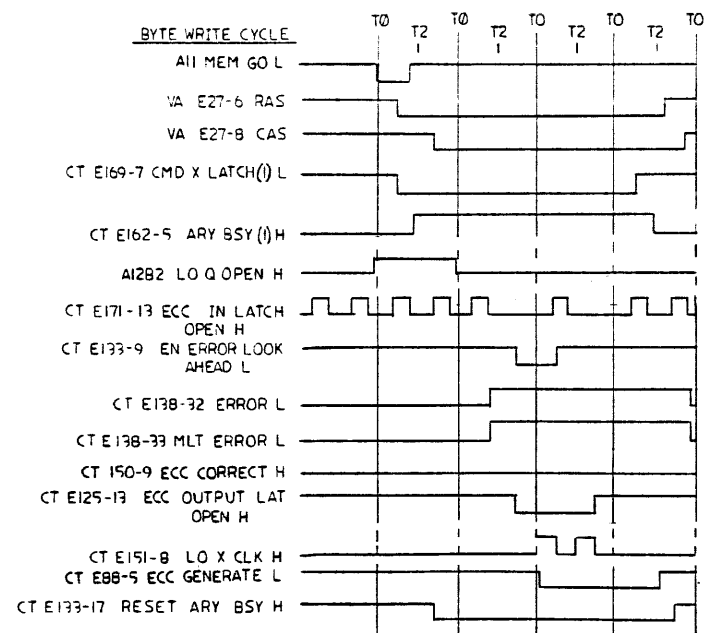
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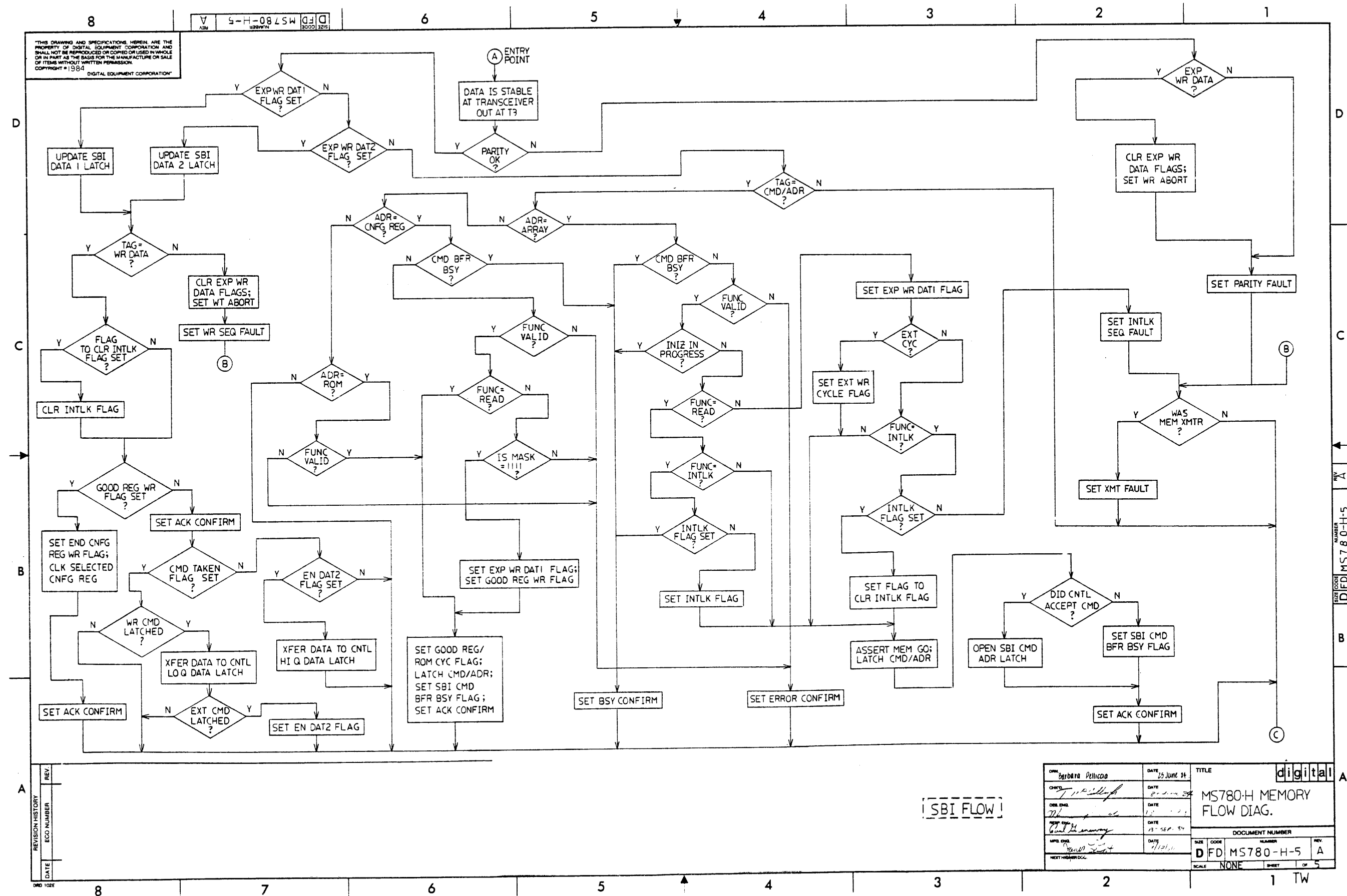
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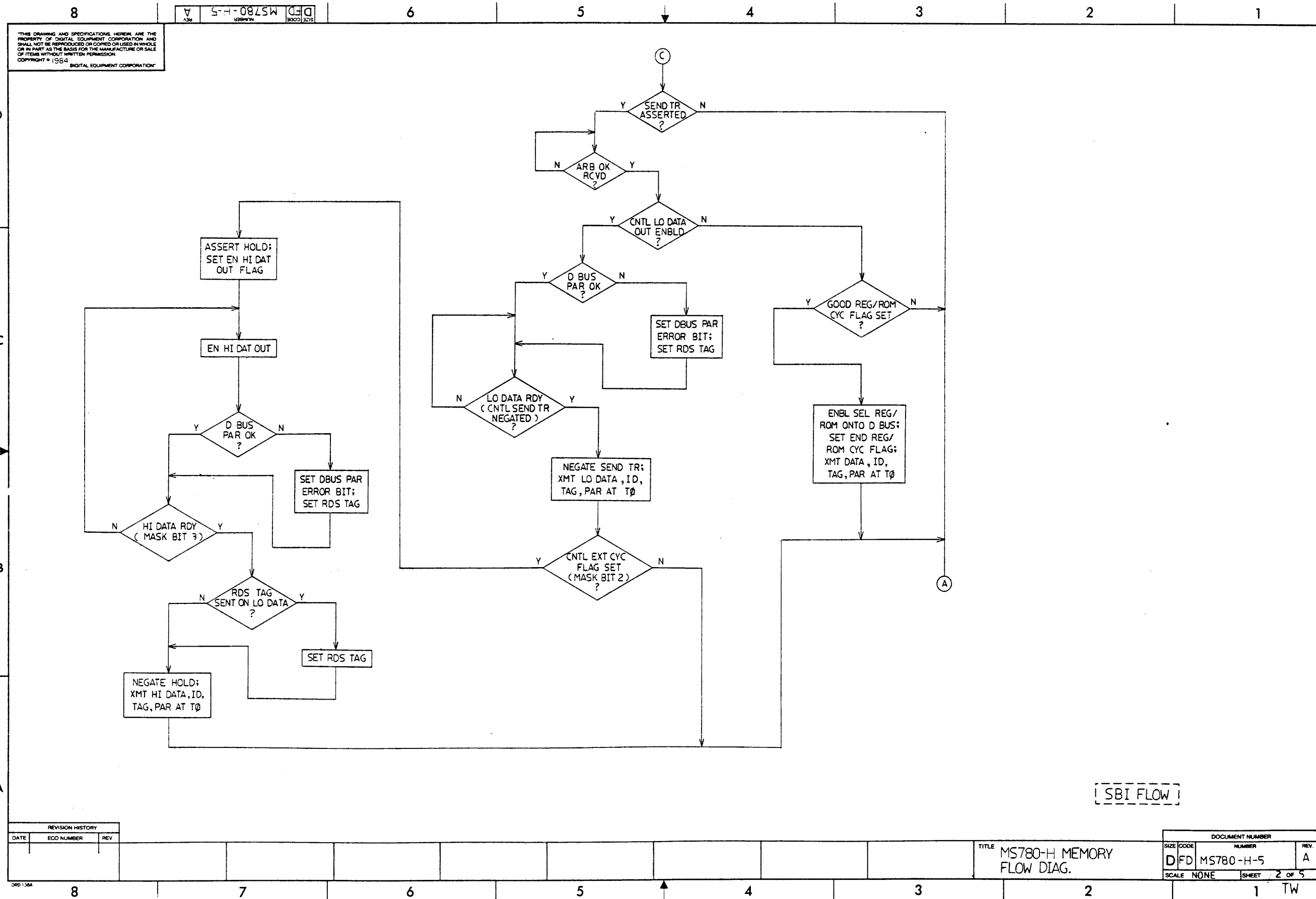
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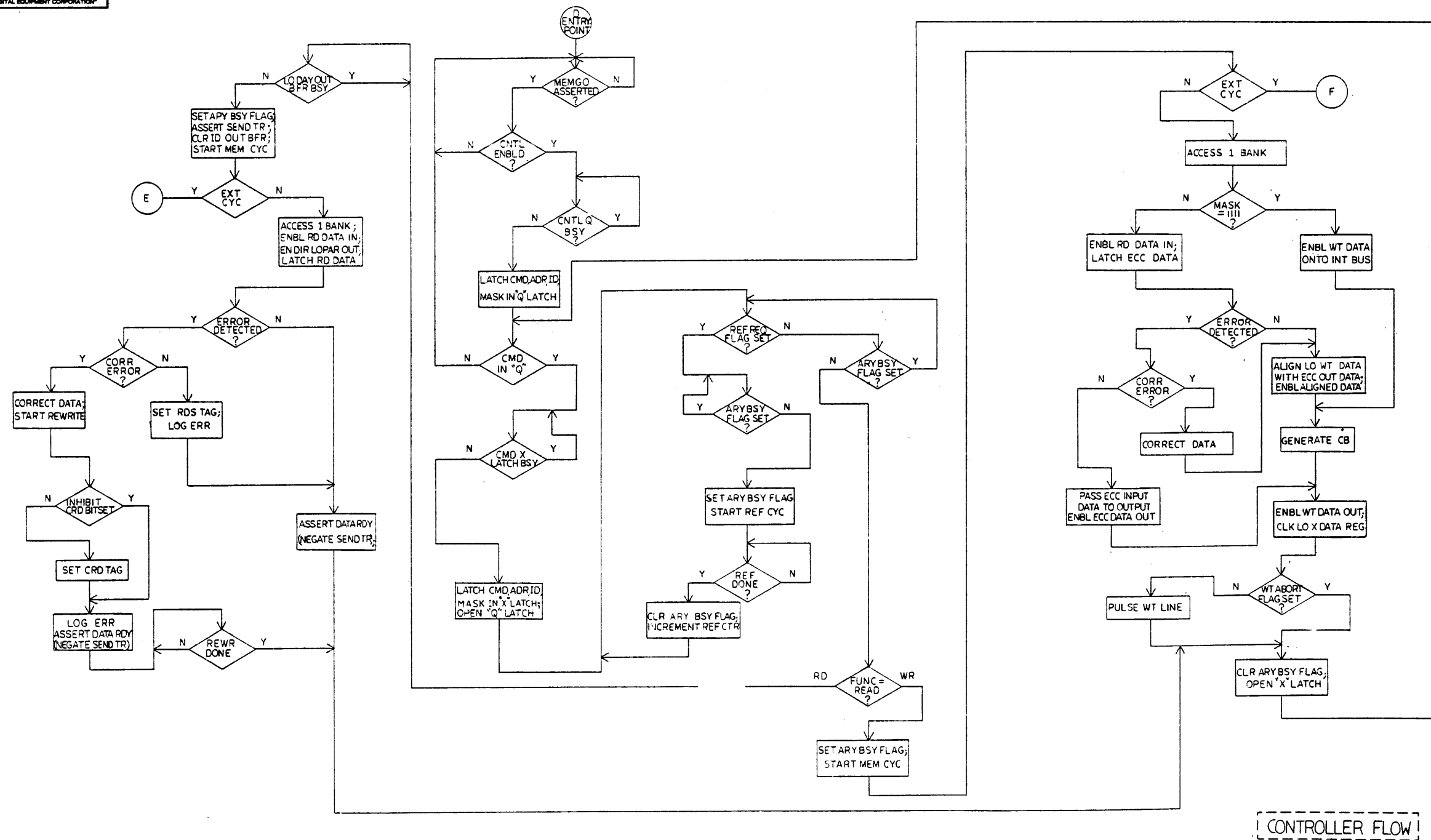


OWN Barbara Pellicani	DATE 25 JUN 84	TITLE digital
CHKD <i>[Signature]</i>	DATE 30 JUN 84	MS780-H MEMORY TIMING DIAG.
DES. ENG <i>[Signature]</i>	DATE	DOCUMENT NUMBER
PRP. ENG <i>[Signature]</i>	DATE 3-SEP-84	SIZE CODE NUMBER REV
WFL. ENG <i>[Signature]</i>	DATE 4/5/84	D TD MS780-H-4 A
NEXT WORKBOOK		SCALE TW SHEET 1 OF 2



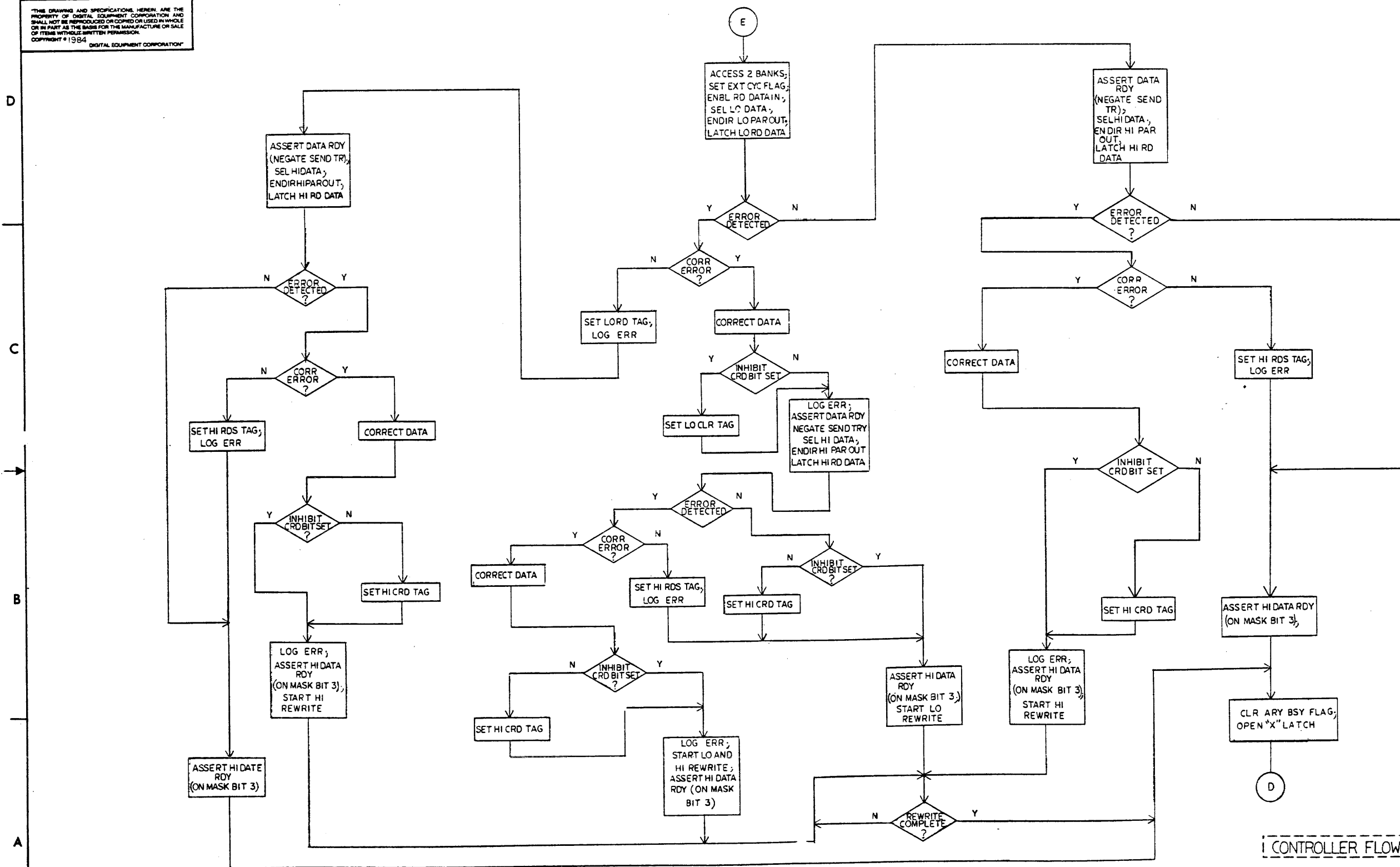


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DATE	DATE	TITLE	digit
CHRG.	DATE	M5780-H MEMORY FLOW DIAG.	
DES. ENCL.	DATE		
RESP. ENCL.	DATE		
INFO. ENCL.	DATE		
MENT. OTHER DOC.	DATE		
		DOCUMENT NUMBER	
		SIZE	CODE
		D	FD
		NUMBER	
		M5780-H-5	
		REV	A
		SCALE	UNITS
		3	OF

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REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE MS780-H MEMORY
FLOW DIAG.

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DFD	MS780-H-5	A
SCALE	SHEET 4	OF 5

