

\*DENOTES OPTIONAL EQUIPMENT

TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
INTERPROCESSOR LINK		B DD	DMC11-0	D

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL						
	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	D-UA-DMC11-0-0		3	INTERPROCESSOR LINK				1	D-UA-DMC11-0-0		3	INTERPROCESSOR LINK	
			A-PL-DMC11-0-7		1	DMC11 SHIPPING LIST									
			B-TC-DMC11-0-8		1	FIELD MAINTENANCE PRINT SET									
			A-SP-DMC11-0-5		30	TEST AND ACCEPTANCE SPECIFICATION									
		2	B-DD-M8200-0		1	INTERPROCESSOR LINK UP				5	C-UA-BC08S-0-0		1	CABLE, BC08S	
		3	B-DD-M8201-0		1	IPL SLU LOW				6	D-UA-BC05C-0-0		1	CABLE, BC05C	
		4	B-DD-M8202-0		1	IPL SLU HI				7	C-UA-BC05Z-0-0		1	CABLE, BC05Z	
		8	D-CS-H325-0-0		1	H325 TEST CONNECTOR				9	C-UA-BC03N-0-0		1	CABLE, BC03N	
										10	A-SP-3700283 0-0 A-PS-9906040 0-0 A-PS-9905816 0-0 A-PS-9905809 0-0 A-PS-9905729 0-0			PACKAGING INSTRUCTIONS FULL TELESCOPE CARTON ASSY. BOX, FOLDING, REVERSE TUCK FULL TELESCOPE CARTON ASSY. TAPE, CARTON SEALING	
										11	D-UA-H3250		1	H3250 TEST CONNECTOR	

CUSTOMER PRINT SET CODES  
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET  
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT  
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE  
INTERPROCESSOR LINK

SHEET 3 OF 3

SIZE CODE  
B DD

NUMBER  
DMC11-0

R V  
D

DRB 108

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SYSTEM UNIT VIEW IS FROM MODULE SIDE

F	E	D	C	B	A
M8201 OR M8202 #2	BUS OUT OR TERMINATOR				4
M8202	#2				3
M8202	#1				2
M8201 OR M8202 #1	BUS IN				1

DD11 B/C  
SEE NOTES 3, 5

F	E	D	C	B	A
M8200 OR M8202	BUS OUT OR TERMINATOR				4
M8200					3
M8200					2
					1

DD11 R/C  
SEE NOTES 4, 5

F	E	D	C	B	A
M8201 OR M8202 #4	BUS OUT OR TERMINATOR				9
M8200	#4				8
M8201 OR M8202 #3					7
M8200	#3				6
M8201 OR M8202 #2					5
M8200	#2				4
M8201 OR M8202 #1					3
M8200	#1				2
					1

DD11-D

FOR REFERENCE PURPOSES ONLY

NOTES:

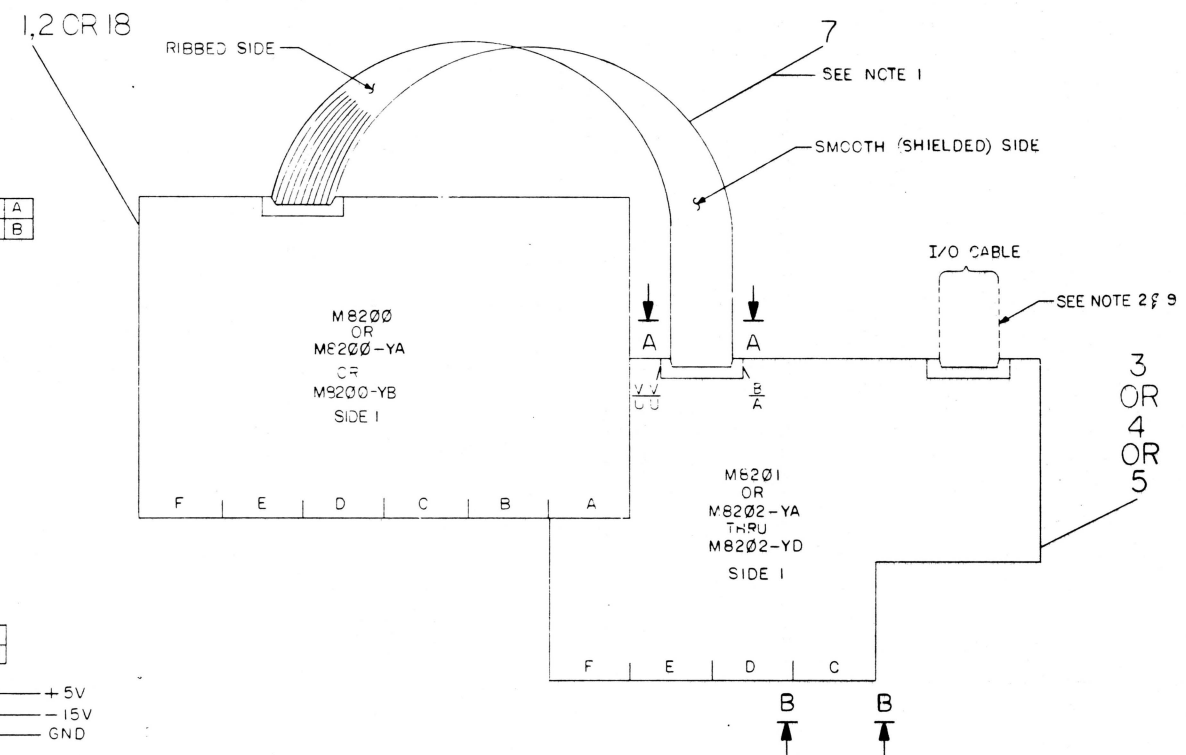
- IF CABLE BC085 (ITEM #7) IS NOT AVAILABLE USE I/O CABLE C-1A-BC08R-1-7.
- I/O CABLE (ITEM NO'S 6 OR 8) CAN CONSIST OF ANY VARIATION.
- IF LESS THAN 2 1/2 INCH MODULES ARE INSTALLED IN SLOTS A, B AND/OR IN THE LAST SLOT.
- IF GREATER THAN 2 1/2 INCH MODULES ARE IN SLOTS A, B AND/OR IN THE LAST SLOT.
- DD11-B MUST BE REV E OR LATER.
- M8200 MODULES (ITEM NO'S 1, 2, 3) MAY BE USED AS A LINE UNIT (UNIBUS SCAN). IN THIS CASE M8200 MAY BE INSTALLED IN ANY AVAILABLE POSITION.
- POWER NOTE**  
MULTIPLE M8200 (ITEM NO'S 1, 2, 3) AND M8202 (ITEM NO'S 3, 4, 5) MAY EXCEED REGULATOR RATINGS UNLESS THE DD11'S ARE POSITIONED TO SPLIT THE LOAD BETWEEN ADJACENT REGULATORS.
- INSTALLATION NOTE**  
THE NPR GRANT JUMPER (CA1 TO CR1) MUST BE REMOVED BEFORE INSTALLING THE M8202 (ITEM NO'S 1, 2, 3). THIS JUMPER MUST BE REPLACED IF ANY M8200 IS REMOVED FROM THE SYSTEM.
- WHEN USING M8201 (ITEM #3) WITH THE BC05C (ITEM #6) USE THE H325 TEST CONN (ITEM #10) OR M8201 WITH BC05Z USE H325D AND WHEN USING THE M8202 (ITEM NO'S 4, 5) USE THE CONN. RECEPTACLE (ITEM #9).
- ASTERISKS (\*) INDICATE THE BC03N (ITEM #11) IS OPTIONAL EQUIPMENT.

UU	SS	PP	MM	KK	HH	EE	CC	AA	YY	WW	UU	SS	PP	MM	KK	HH	EE	CC	AA
VV	TT	RR	NN	LL	JJ	FF	DD	BB	Z	X	V	T	R	N	L	J	F	D	B

VIEW A-A

+15V ON "C" CONNECTOR ONLY																	
GND																	
V1	U1	T1	S1	R1	F1	N1	M1	L1	K1	J1	H1	F1	E1	D1	C1	B1	A1
V2	U2	T2	S2	R2	F2	N2	M2	L2	K2	J2	H2	F2	E2	D2	C2	B2	A2

VIEW B-B



/	-	-	-	-	-	-	-	-	IPL SLU HI	D-UA-M8202-YC-0	28	-	-	-	-	-	-	-	-	
-	/	-	-	-	-	-	-	-	IPL SLU HI	D-UA-M8202-YB-0	27	-	-	-	-	-	-	-	-	-
REF	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-MC-7	26	-	-	-	-	-	-	-	-	
-	REF	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-MB-7	25	-	-	-	-	-	-	-	-	

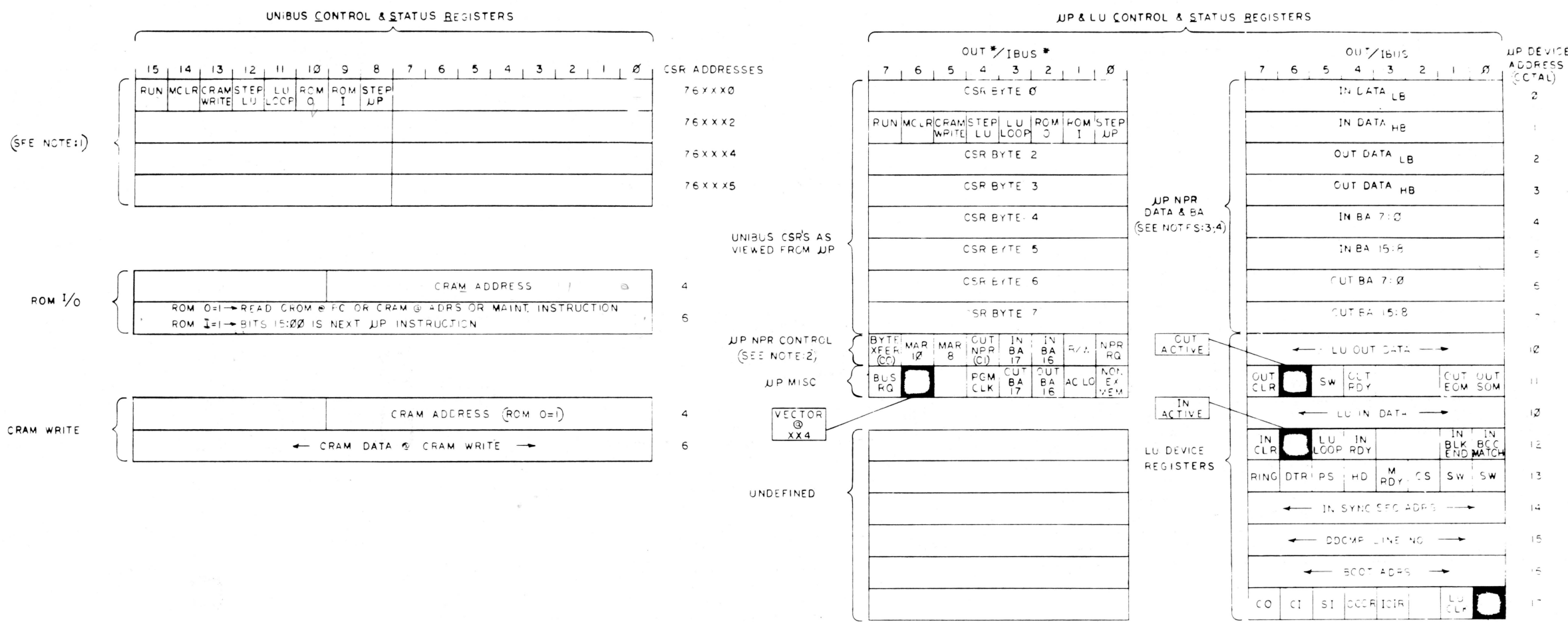
													CONN. TEST H325D	D-UA-H325D	24				
-	-	-	-	-	-	-	-	-	-	-	-	-	REF	-	DMCII SHIPPING LIST	A-PL-DMCII-AR-7	23		
-	-	-	-	-	-	-	-	-	-	-	-	-	REF	-	DMCII SHIPPING LIST	A-PL-DMCII-AL-7	22		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INSTR. PKG. KIT OPTION	A-SP-3700283-2-0	21		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INSTR. PKG. KIT OPTION	A-SP-3700283-1-0	20		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INSTR. PKG. KIT OPTION	A-SP-3700283-0-0	19		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INTERPROCESSOR LINK MICROPROCESSOR	D-UA-M8200-YB-2	18		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-MD-7	17		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-MA-7	16		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-FA-7	15		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-DA-7	14		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DMCII SHIPPING LIST	A-PL-DMCII-AD-7	13		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REF	DMCII SHIPPING LIST	A-PL-DMCII-AA-7	12	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	CABLE. MODEM	D-IA-BC03N-AP-0	11
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	H325 TEST CONNECTOR	D-CS-H325-0-1	10
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CONNECTOR RECEPTACLE	12-252E-00	9
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CABLE. MODEM BC05Z	D-UA-BC05Z-25-0	8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CABLE. I/O BC085	C-LA-BC085-1-0	7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CABLE. MODEM BC05C	C-LA-BC05C-25-0	6
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IPL SLU HI	C-LA-M8202-YD-0	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IPL SLU HI	C-LA-M8202-YA-0	4
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IPL SLU LOW	D-LA-M8202-1-2-0	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INTERPROCESSOR LINK MICROPROCESSOR	D-LA-M8202-YA-0	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INTERPROCESSOR LINK MICROPROCESSOR	D-LA-M8202-2-2-0	1

REV.	CHANGE NO.	DESCRIPTION
A	0001	INITIAL RELEASE
B	0003	INITIAL RELEASE
C	0004	INITIAL RELEASE
D	0005	INITIAL RELEASE
E	0006	INITIAL RELEASE

DEC FORM NO. C96 100C

THIRD ANGLE PROJECTION		DRN. [Signature]	FIRST USED ON [Signature]
REMOVE BURRS AND BREAK SHARP CORNERS		ENG. [Signature]	TITLE INTERPROCESSOR LINK
DO NOT SCALE DWG		PROJ. ENG. [Signature]	NUMBER DMCII-3-0
MATERIAL SEE PARTS LIST		PROD. [Signature]	REV. 0
FINISH [Symbol]		NEXT HIGHER ASSY.	SCALE
SHEET 1 OF 3		SIZE D	DIST

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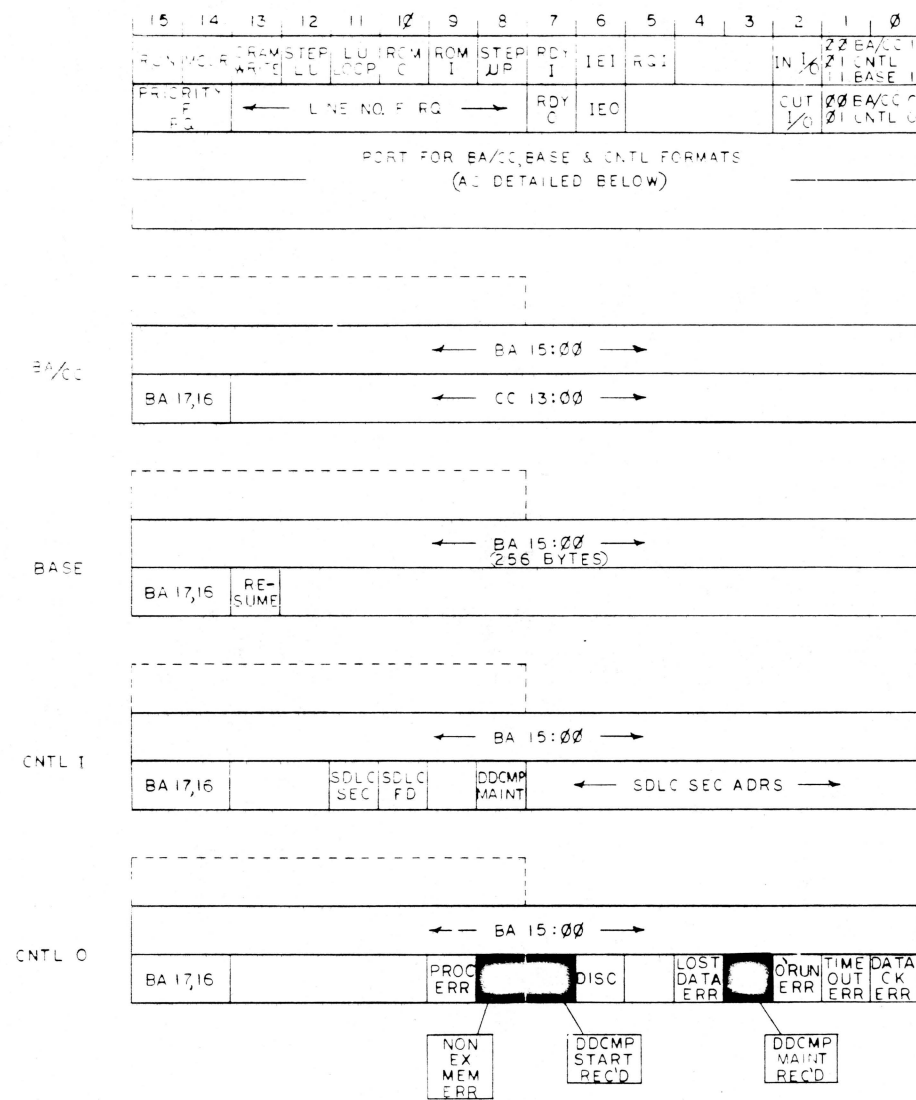
**NOTES:**

- UNIBUS CSR REGISTERS ARE RAM. PROGRAM FUNCTIONS MAY BE ASSIGNED TO BITS AT RANDOM EXCEPT FOR BYTE ONE. BYTE ADDRESS ONE HAS GATES AND FLIP FLOPS WHICH IMAGE THE RAM AND FUNCTIONS DIRECTLY WITH THE LOGIC FOR MAINTENANCE FUNCTIONS. BYTE ADDRESSES 4,5,6,7 ALSO HAS A FLIP FLOP IMAGE BUT IS ONLY USED AS MAINTENANCE FUNCTIONS FOR DIAGNOSTIC GENERATED INSTRUCTIONS. REFERENCE MAINTENANCE MANUAL PROGRAMMING SECTION ON BYTE ONE FOR MORE DETAILS. THE JP DOES NOT HAVE ACCESS TO THE GATES AND FLIP FLOPS IN BYTES 1,4,5,6,7; HOWEVER, THE JP CAN ALTER THE RAM IN ANY CSR BYTE.
- MAR 8 AND MAR 10 BIT FUNCTIONS ARE FOR M6204 ONLY.
- NPR DATA AND BA REGISTERS ARE RAM; HOWEVER, ADDRESS ASSIGNMENTS ARE HARDWIRED AND CANNOT BE RE-DEFINED.
- THE JP IS REFERENCE POINT FOR ALL TRANSFERS.  
 OUT: IS DATA FROM JP  
 (EX...TRANSFER TO PDP11)  
 IN : IS DATA TO JP  
 (EX...TRANSFER FROM PDP11)

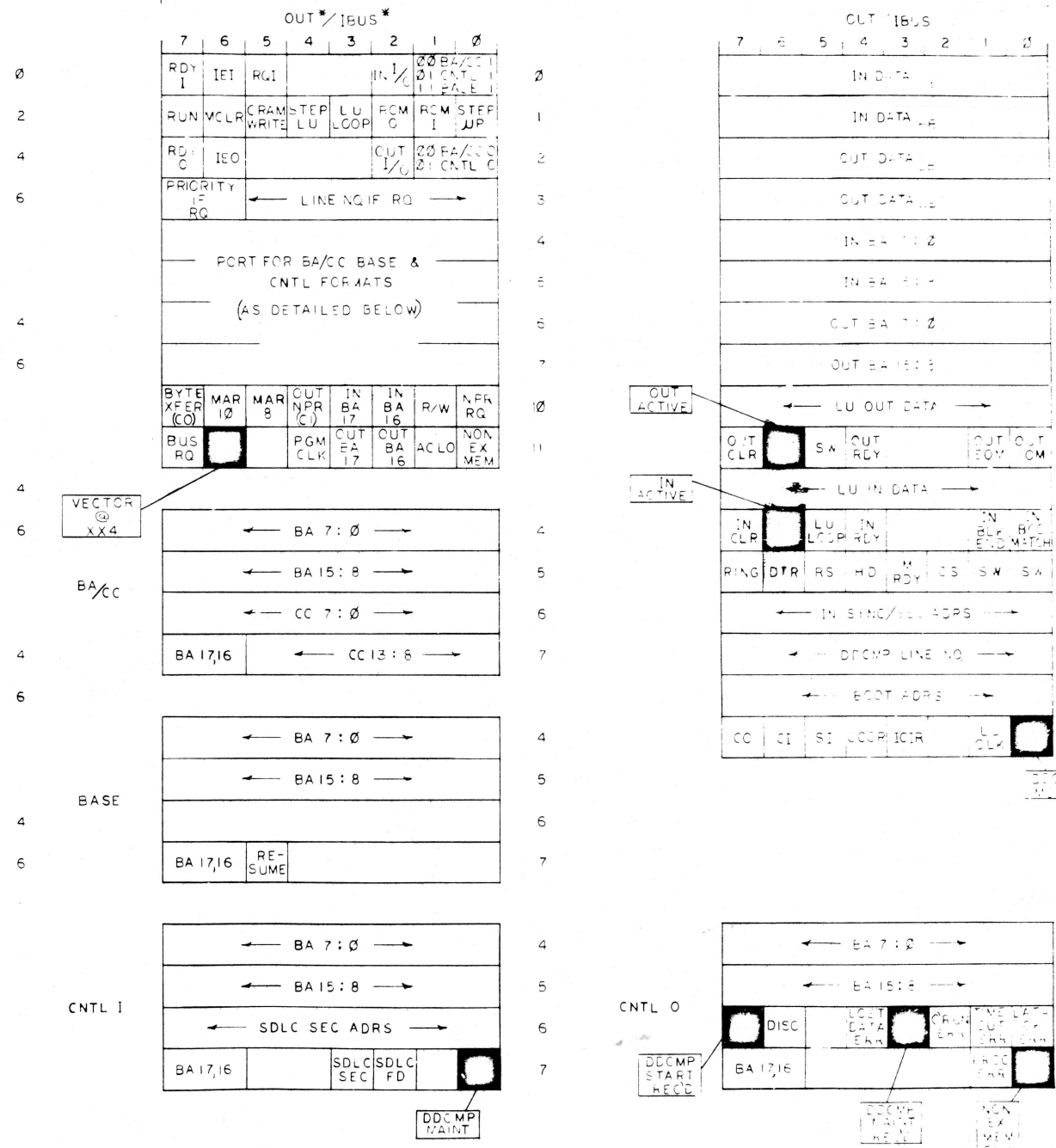
REVISIONS		
CHK	CHANGE NO	REV.

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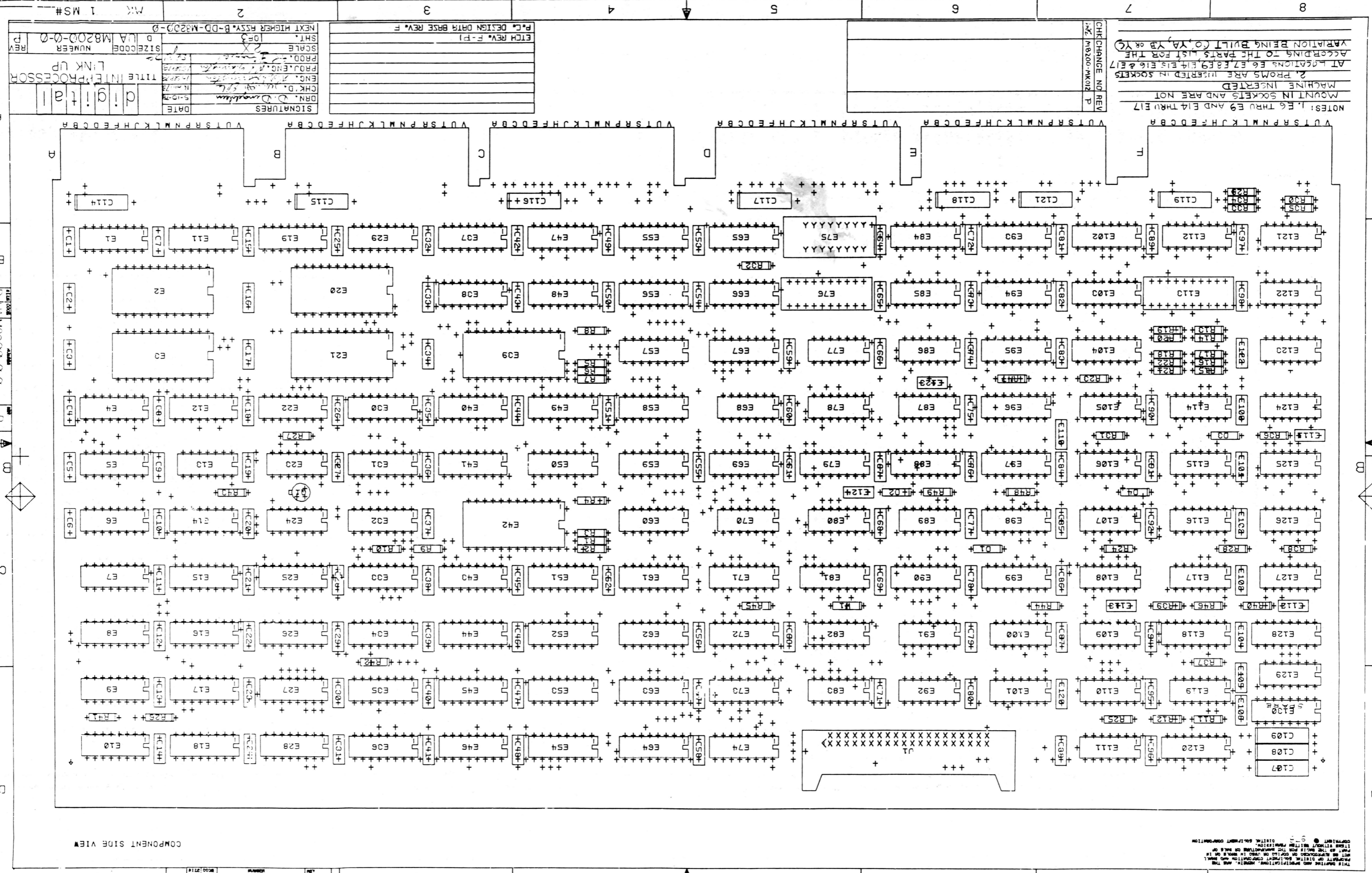
UNIBUS CONTROL & STATUS REGISTERS



JUP & LU CONTROL & STATUS REGISTERS



REVISIONS		
CHK	CHANGE NO	REV



NOTES: 1. E6 THRU E9 AND E14 THRU E17 MOUNT IN SOCKETS AND ARE NOT MACHINE INSERTED.  
 2. PROMS ARE WISPERED IN SOCKETS AT LOCATIONS E6, E7, E8, E9, E14, E15, E16 & E17 ACCORDING TO THE PARTS LIST FOR THE VARIATION BEING BUILT (C, YA, YB OR YC)

REV	P	CHANGE NO	12
REV	P	CHANGE NO	12

DATE	5-10-77	DRN.	W. J. ...
CHK'D.	...	ENGR.	...
PROJ. ENG.	...	TITLE	LINK UP
PROJ. NO.	...	TITLE	LINK UP
PROD. NO.	...	SIZE CODE	...
SCALE	...	NUMBER	...
SHT.	10	REV	P
ETCH REV.	F-1	REV	P
P.C. DESIGN DATA BASE REV.	F	REV	P
NEXT HIGHER ASSY.	B-DD-M3200-0	REV	P
WORK	1 MS#	REV	P

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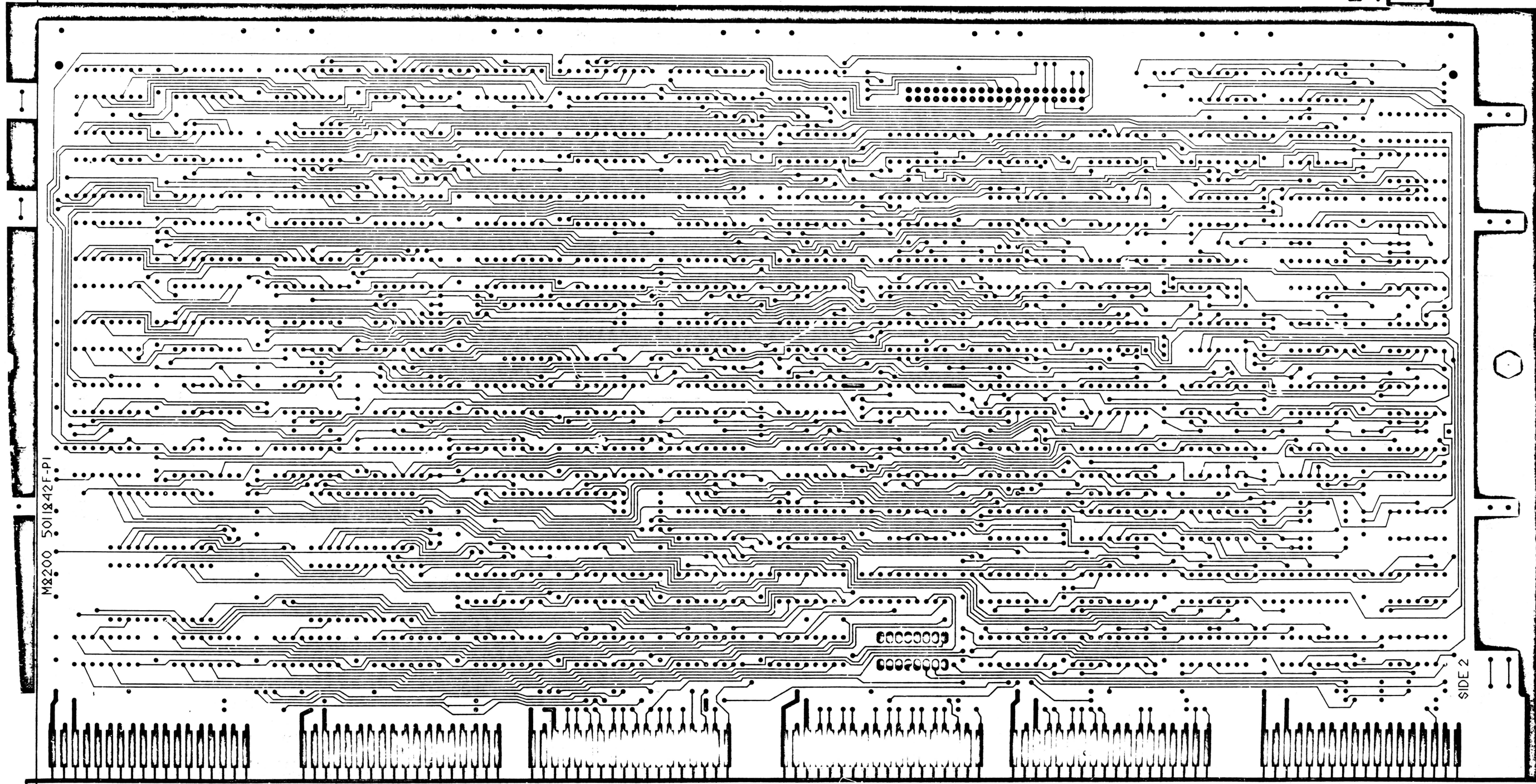
COMPONENT SIDE VIEW



DIA M8200-0-0 2

Р 834А J

L4



M8200 501R42E-PI

SIDE 2

D  
C  
P  
B  
A

DIA M8200-0-0

REVISIONS		
CHK	CHARACTER	REV.

TITLE	INTERPROCESSOR LINK UP	SIZE	0000	NUMBER		REV.	
SCALE	2X	SHEET	3 OF 3	DIST		REV.	P

8 7 6 5 4 3 2 1 AKI

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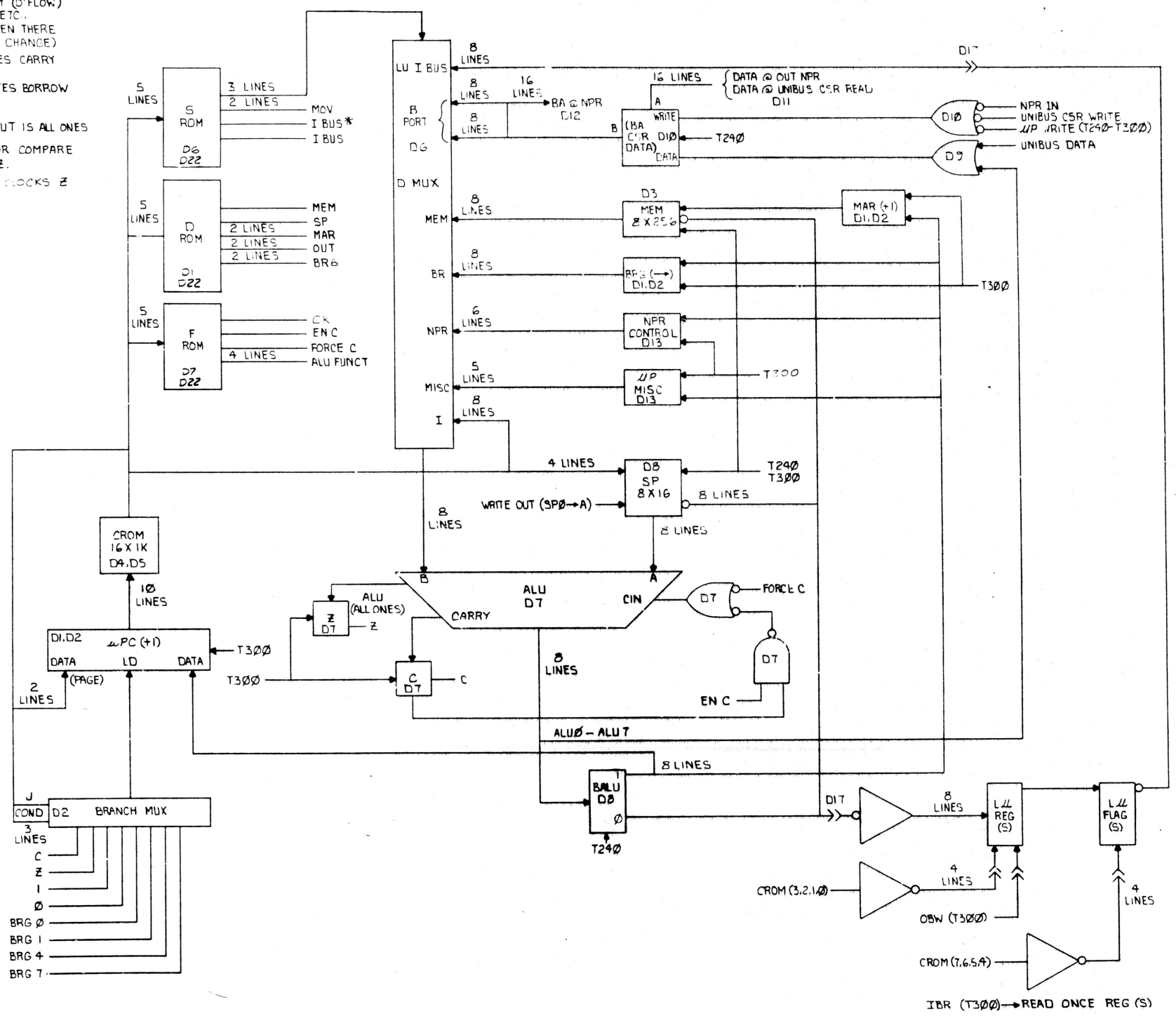
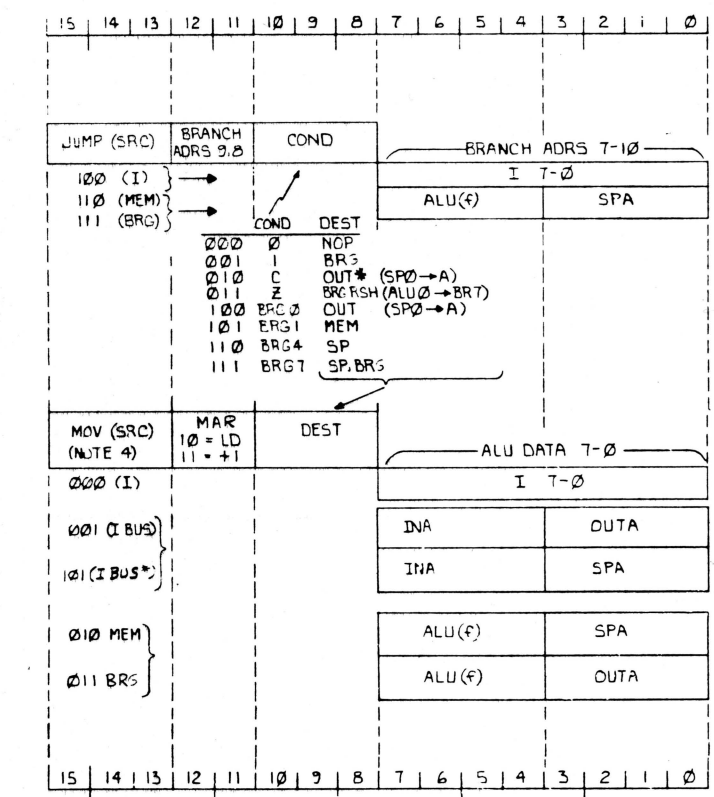
NOTES: 1. C WILL ASSERT FOR A CARRY (O'FLOW) DURING ANY ADD INC.PLUS ETC. AND FOR A SUB. DEC. WHEN THERE IS NOT A BORROW OR (SIGN CHANGE) ... ADD: C ↑ INDICATES CARRY OR O'FLOW SUB: C ↓ INDICATES BORROW OR SIGN CHANGE

2. Z WILL ASSERT WHEN ALU OUT IS ALL ONES

3. USE 2'S COMP SUB (1111) FOR COMPARE FOLLOWED BY BRANCH ON Z.

4. MOV INSTRUCTION ALWAYS CLOCKS Z

ALU (f)	CODE
SUB 2'S COMP (A-B)	1110
2'S COMP SUB (A-B-1)	1111
ADD (A,B)	0000
ADD W/C (A,B,C)	0001
SUB W/C (A,B-C)	0010
INC A (A+1)	0011
A PLUS C (A,C)	0100
2 A (A,A)	0101
2A W/C (A,A,C)	0110
DEC A (A-1)	0111
SEL A (A)	1000
SEL B (B)	1001
A OR B (A+B)	1010
A AND B (AB)	1011
A OR B (A+B)	1100
A XOR B (A⊕B)	1101

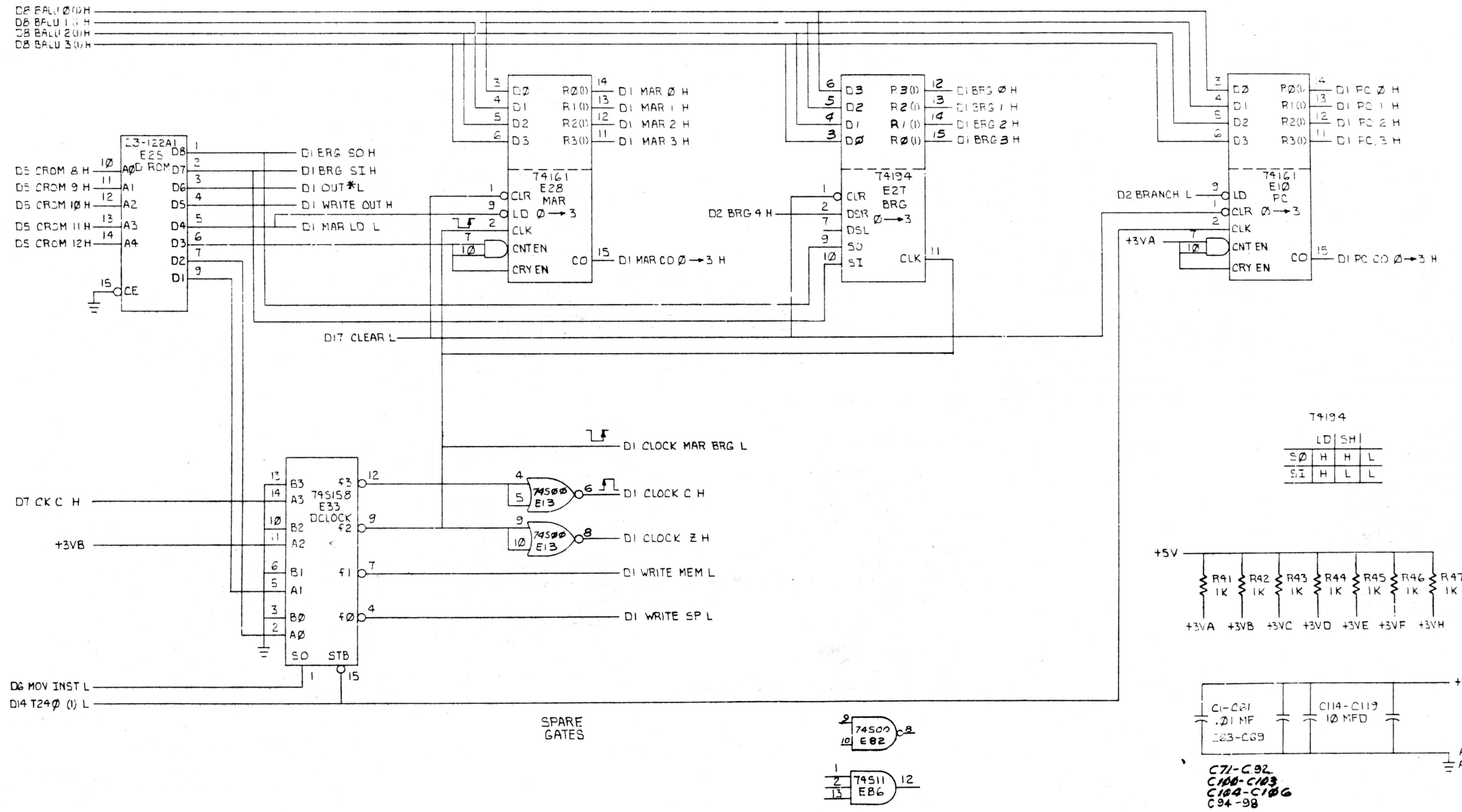


REV.	NO.	DATE	BY	CHK.
1	1	1-11-75	R. LISEE	
2	2	1-27-76	R. LISEE	
3	3	1-27-76	R. LISEE	
4	4	1-27-76	R. LISEE	
5	5	1-27-76	R. LISEE	
6	6	1-27-76	R. LISEE	
7	7	1-27-76	R. LISEE	
8	8	1-27-76	R. LISEE	
9	9	1-27-76	R. LISEE	
10	10	1-27-76	R. LISEE	
11	11	1-27-76	R. LISEE	
12	12	1-27-76	R. LISEE	
13	13	1-27-76	R. LISEE	
14	14	1-27-76	R. LISEE	
15	15	1-27-76	R. LISEE	
16	16	1-27-76	R. LISEE	
17	17	1-27-76	R. LISEE	
18	18	1-27-76	R. LISEE	
19	19	1-27-76	R. LISEE	
20	20	1-27-76	R. LISEE	
21	21	1-27-76	R. LISEE	
22	22	1-27-76	R. LISEE	
23	23	1-27-76	R. LISEE	
24	24	1-27-76	R. LISEE	
25	25	1-27-76	R. LISEE	
26	26	1-27-76	R. LISEE	
27	27	1-27-76	R. LISEE	
28	28	1-27-76	R. LISEE	
29	29	1-27-76	R. LISEE	
30	30	1-27-76	R. LISEE	
31	31	1-27-76	R. LISEE	

DATE	9-11-75	FIRST USED ON	DMC 11
REV.	1-27-76	TITLE	INTERPROCESSOR LINK
SIZE	11-0	NUMBER	M8200-0-1
CODE	D	REV.	M
CS		DIGT.	

REV. M  
NUMBER 0-1  
M8200-0-1  
REV. M

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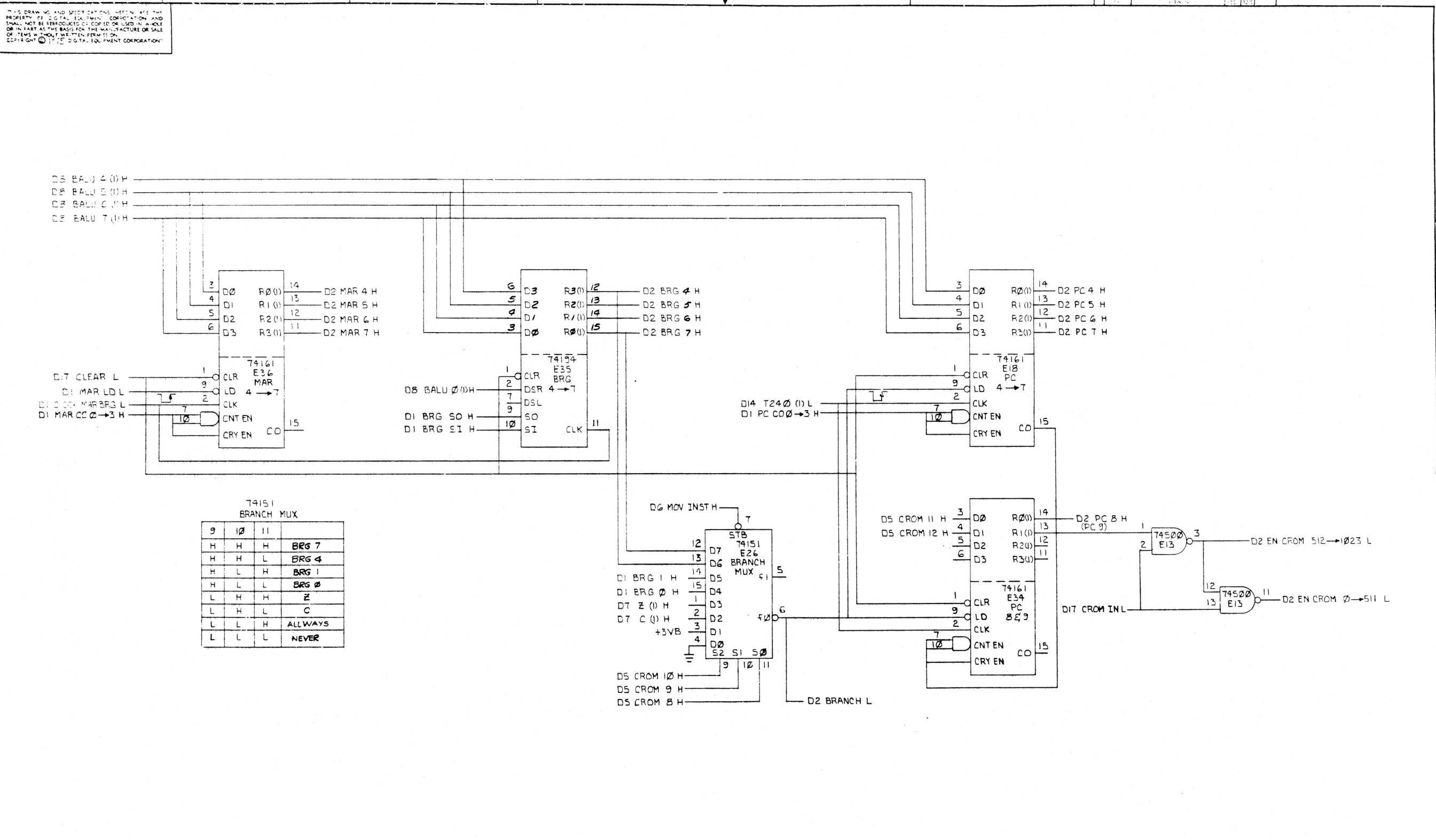


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER	REV
(MAR, BRG, PC 0-3) INTERPROCESSOR LINK ILP		D	CS	M8200-0-1	M
SCALE	SHEET	OF	DIST.		
++	2	22	1		

M8200-0-1-M

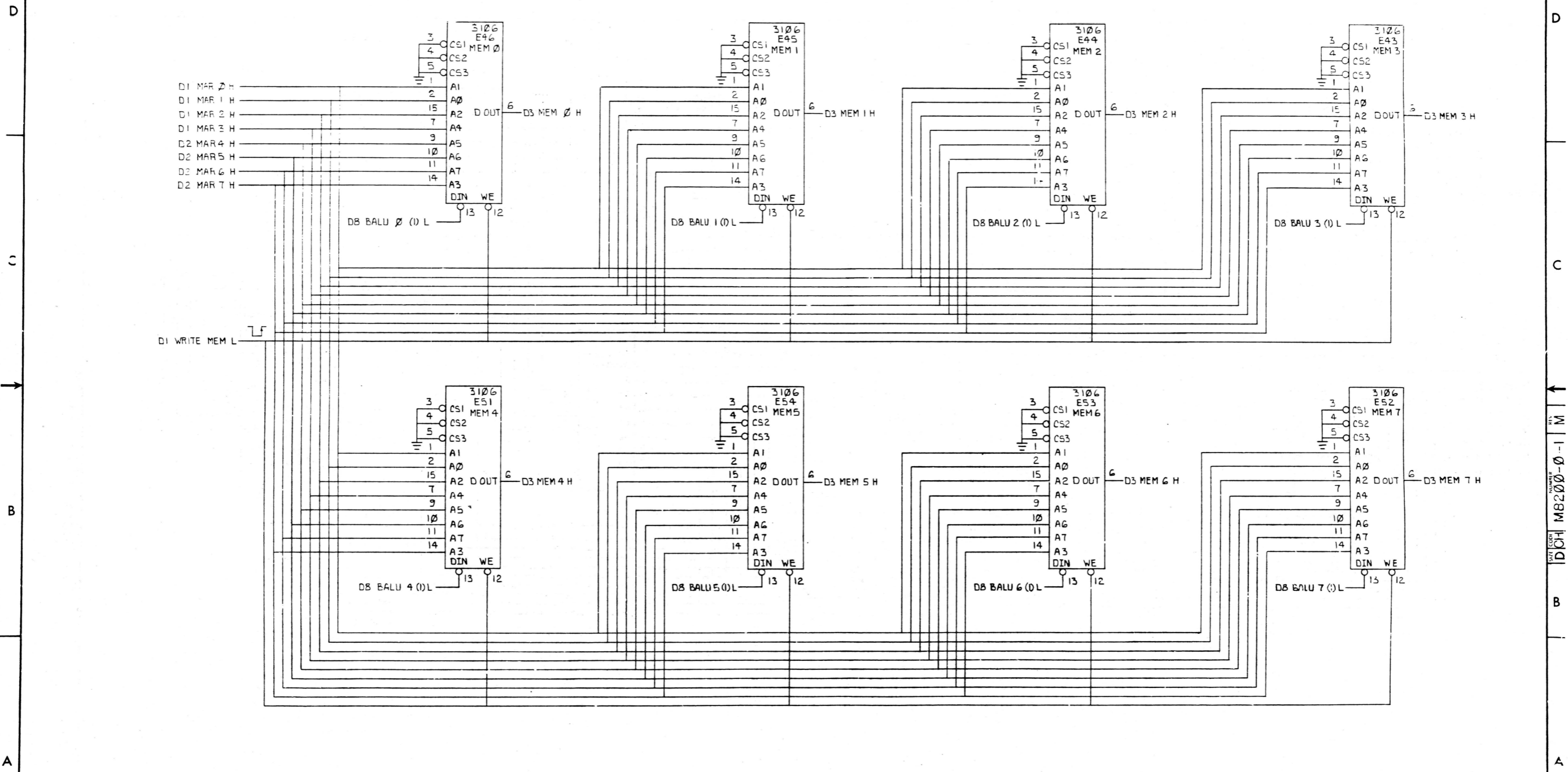
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CHK	CHANGE NO	REV

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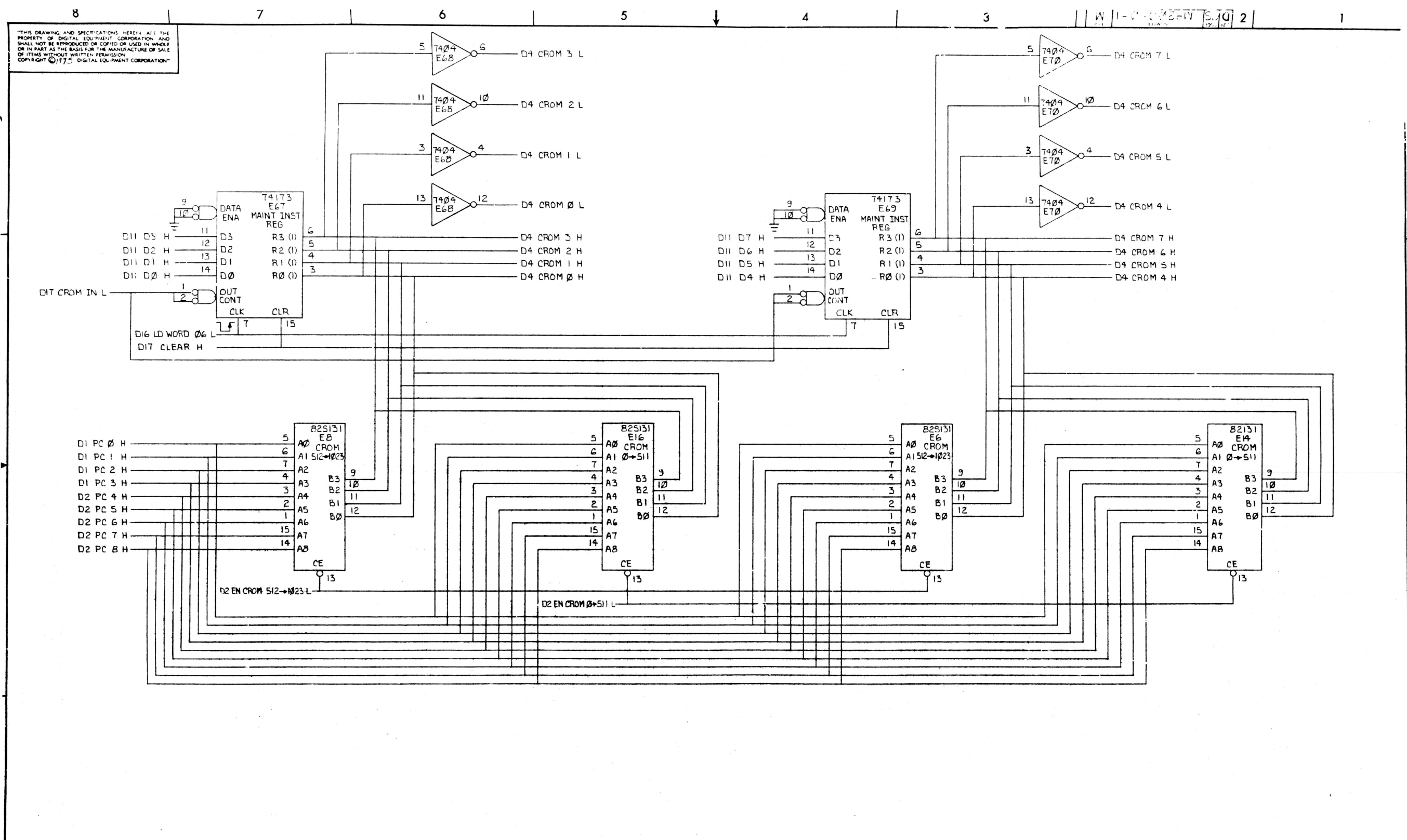
W 1-2 2020W SCD 2



REVISIONS		
CHK	CHANGE NO	REV

(MAIN MEMORY [MEM])  
 TITLE INTERPROCESSOR LINK (D3)  
 SIZE CODE DCS  
 NUMBER M8200-0-1  
 REV. M  
 SCALE 1:1 SHEET 4 OF 22 DIST.

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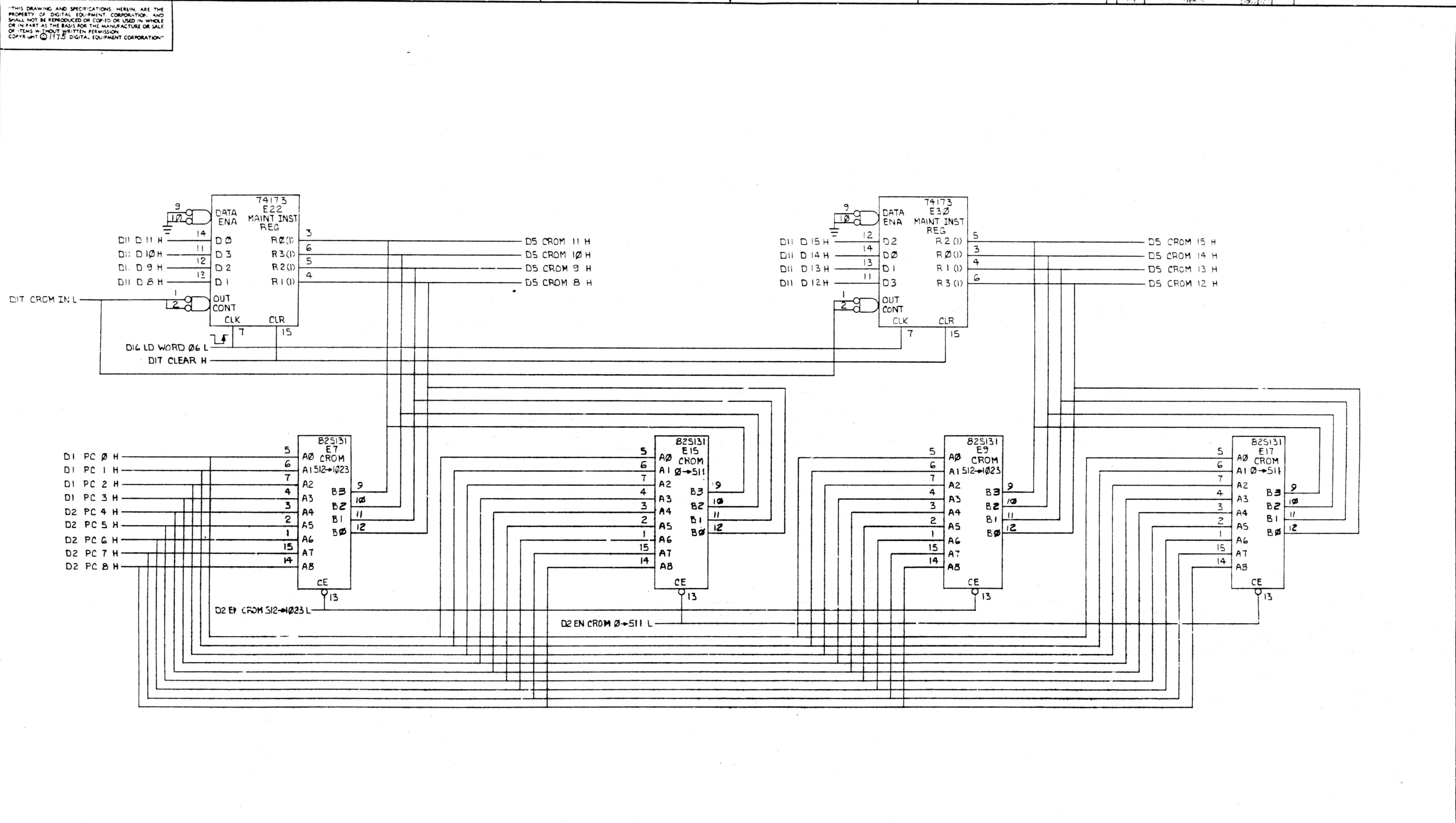
REVISIONS		
CHK	CHANGE NO	REV.

(CROM 0-7)  
 TITLE INTERPROCESSOR LINK SIZE CODE NUMBER REV.  
 ILP (D4) DCS M8200-0-4  
 SCALE SHEET 5 OF 32 DIST. MK

REV. NUMBER M8200-0-11 M  
 DCS MK200-0-4

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1-0-06-24 2



D  
C  
B  
A

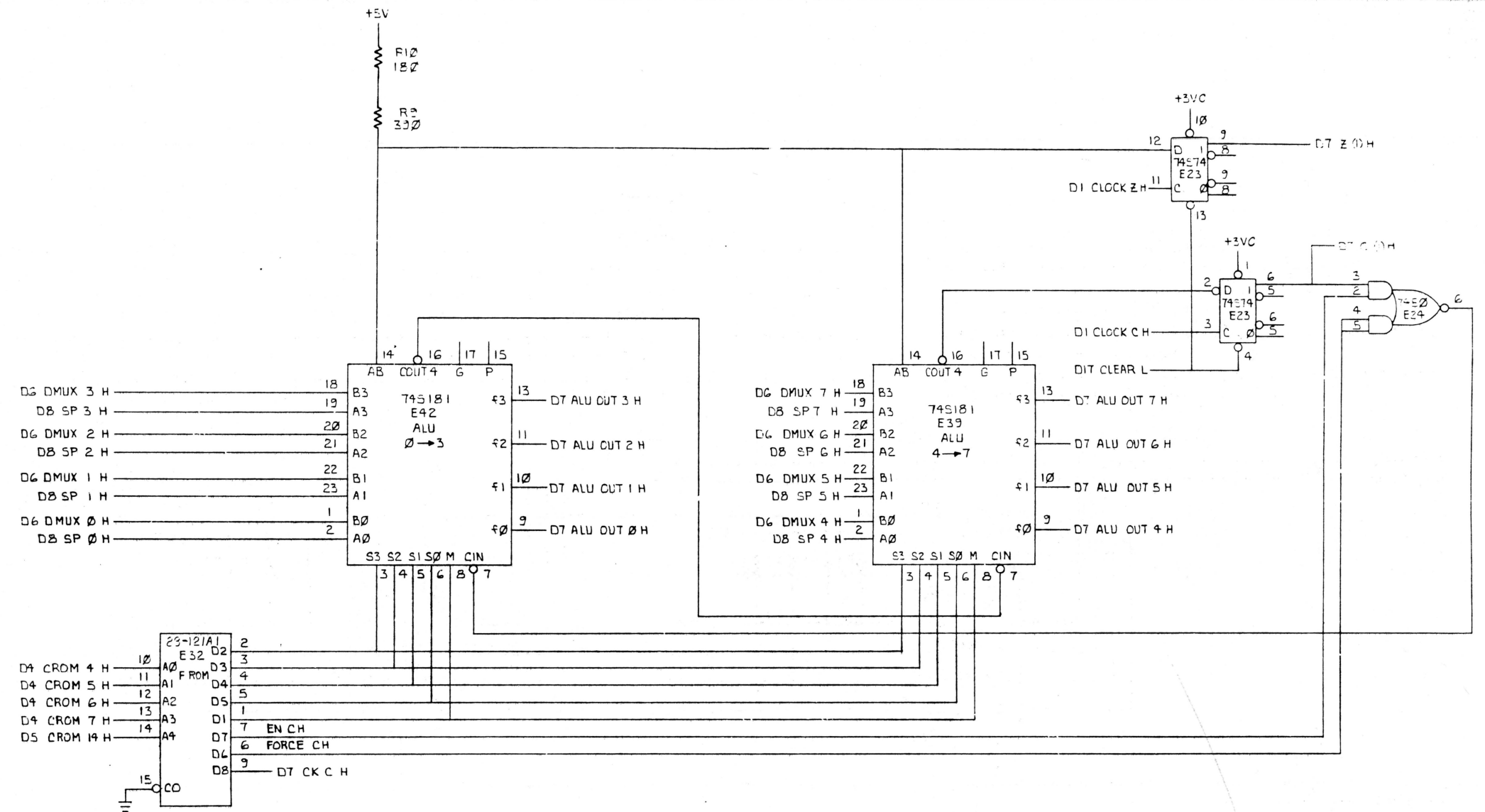
REV M  
NUMBER 0-1  
DCS M8200-0-1

REVISIONS		
CHK	CHANGE NO.	REV

(CROM 8-15)  
 TITLE INTERPROCESSOR LINK  
 SCALE ++ SHEET 5 OF 22  
 SIZE CONF (05) DCS M8200-0-1 REV M



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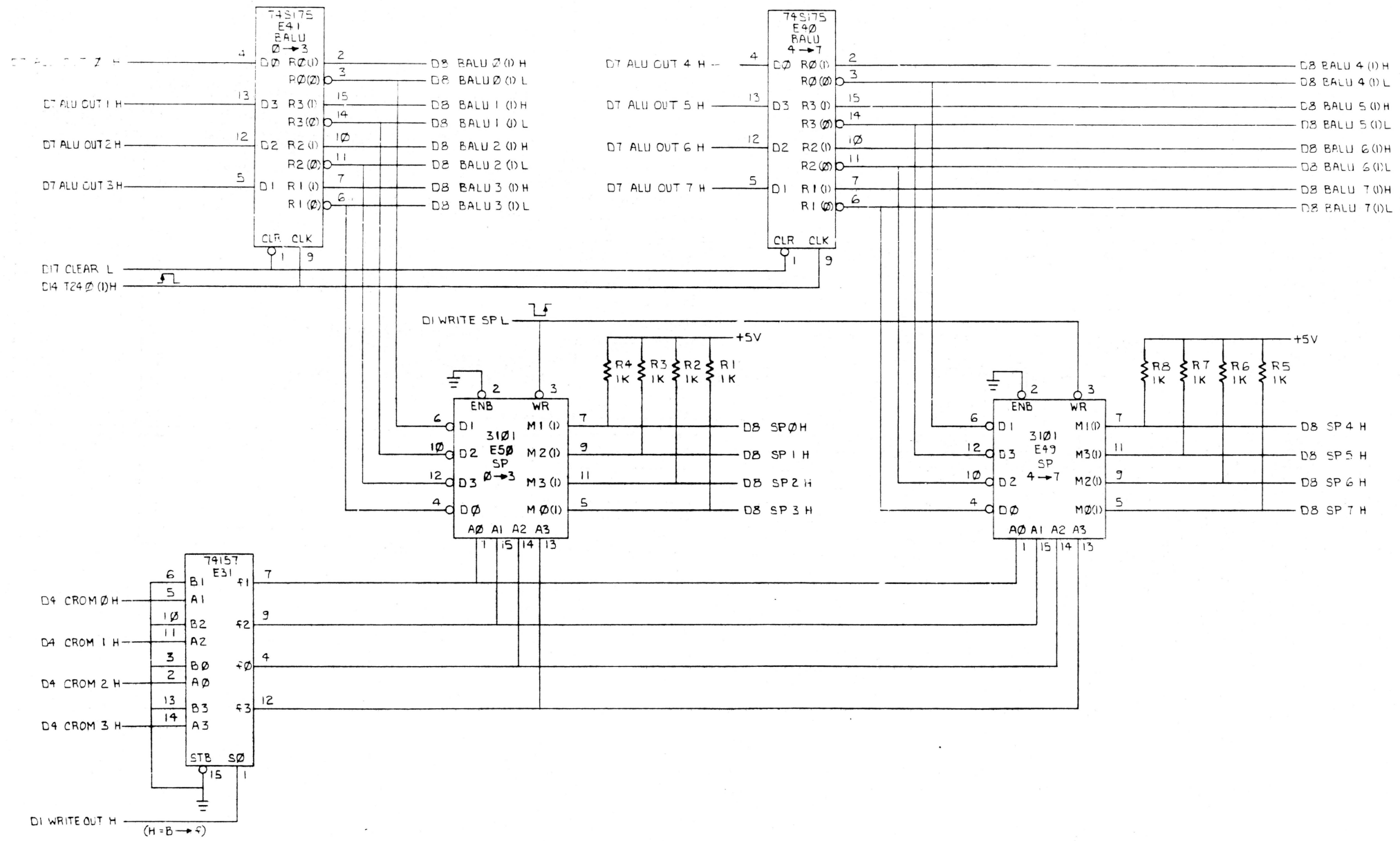


REVISIONS		
CHK	CHANGE NO.	REV

(ALU 0-T, C, Z, FROM)

TITLE	INTERPROCESSOR LINK	SIZE	CODE	NUMBER	REV
	ILP	(07)	DCS	M8200-0-1	M
SCALE	++	SHEET	8	OF	22
		DIST.			

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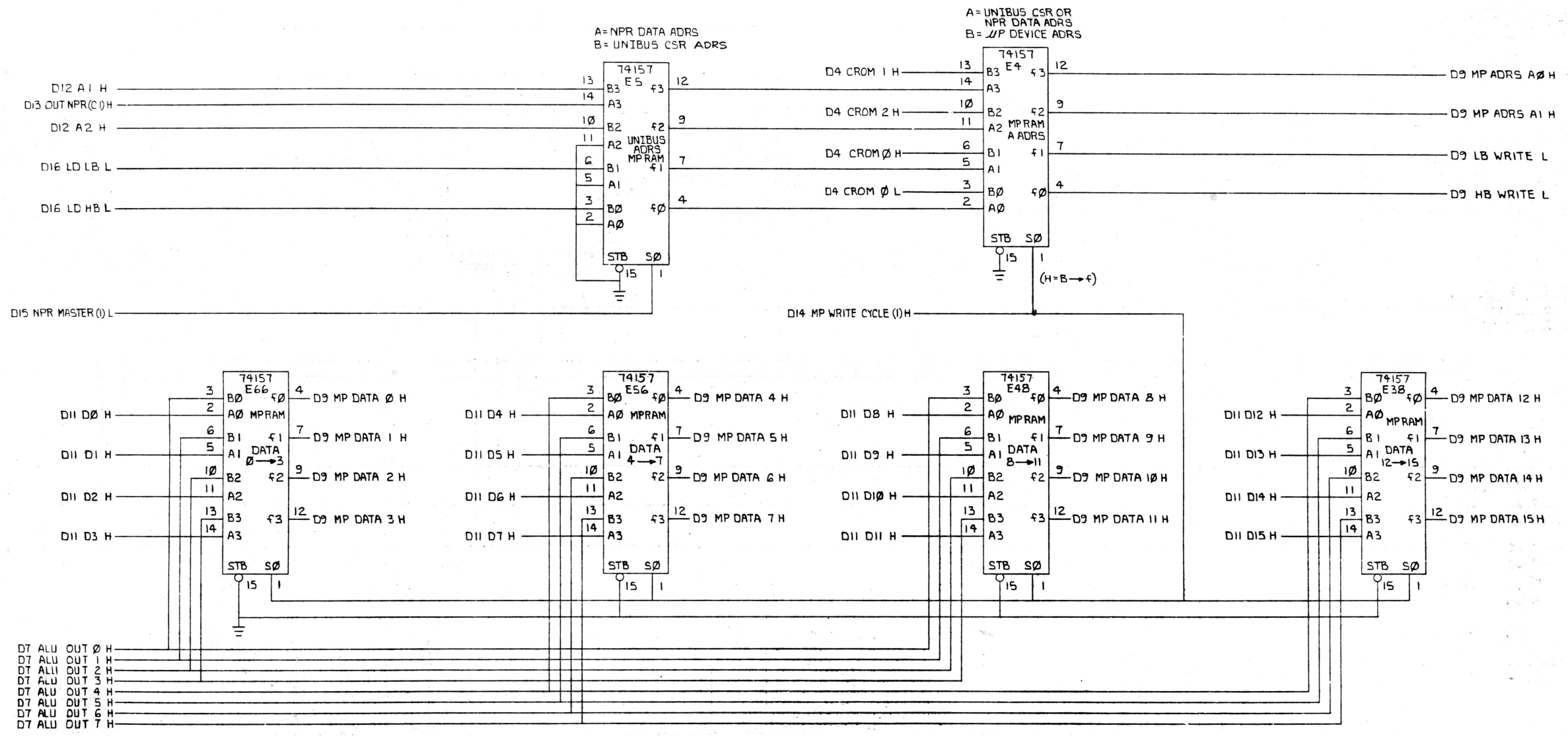


REVISIONS		
CHK	CHANGE NO	REV

TITLE		NUMBER		REV
INTERPROCESSOR LINK		M6200-0-1		M
SCALE		SHEET 9 OF 22		DIST
++		MK		1

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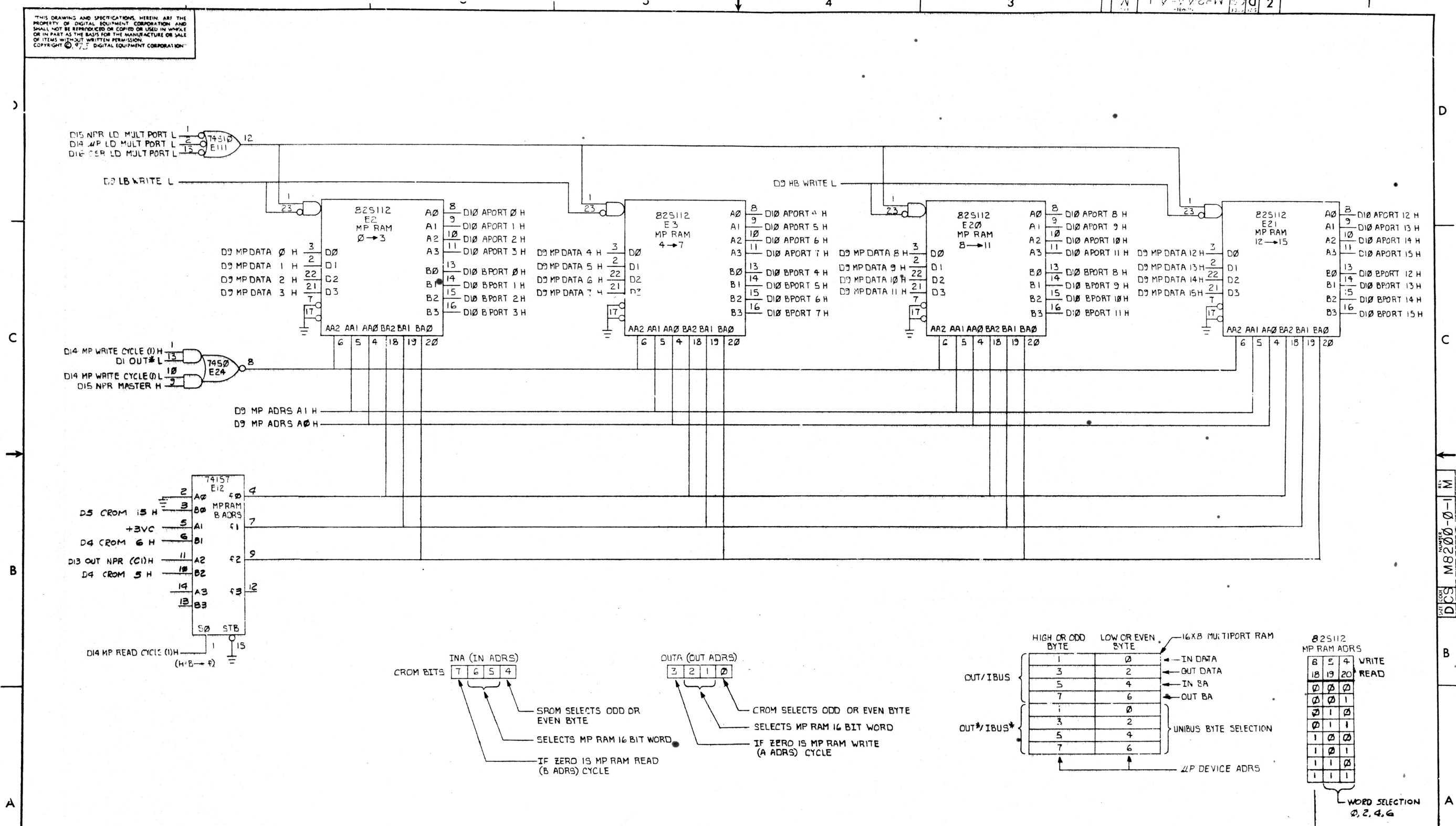
W 1-0-0028W SDC 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERPROCESSOR LINK		SIZE CODE (09)	DIST.	NUMBER M8200-0-1	REV. M
SCALE	++	SHEET 10 OF 22			

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HIGH OR ODD BYTE		LOW OR EVEN BYTE		
1	0	← IN DATA		16KB MULTIPORT RAM
3	2	← OUT DATA		
5	4	← IN BA		
7	6	← OUT BA		
1	0	UNIBUS BYTE SELECTION		
3	2			
5	4			
7	6			

MP DEVICE ADRS

825112 MP RAM ADRS			
6	5	4	WRITE
18	19	20	READ
0	0	0	
0	0	1	
0	1	0	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

WORD SELECTION 0, 2, 4, 6  
0 = OUT/I BUS  
1 = CU.\*/I BUS\*

(MP RAM 0-15 & B ADRS)

REVISIONS		
CHK	CHANGE NO	REV

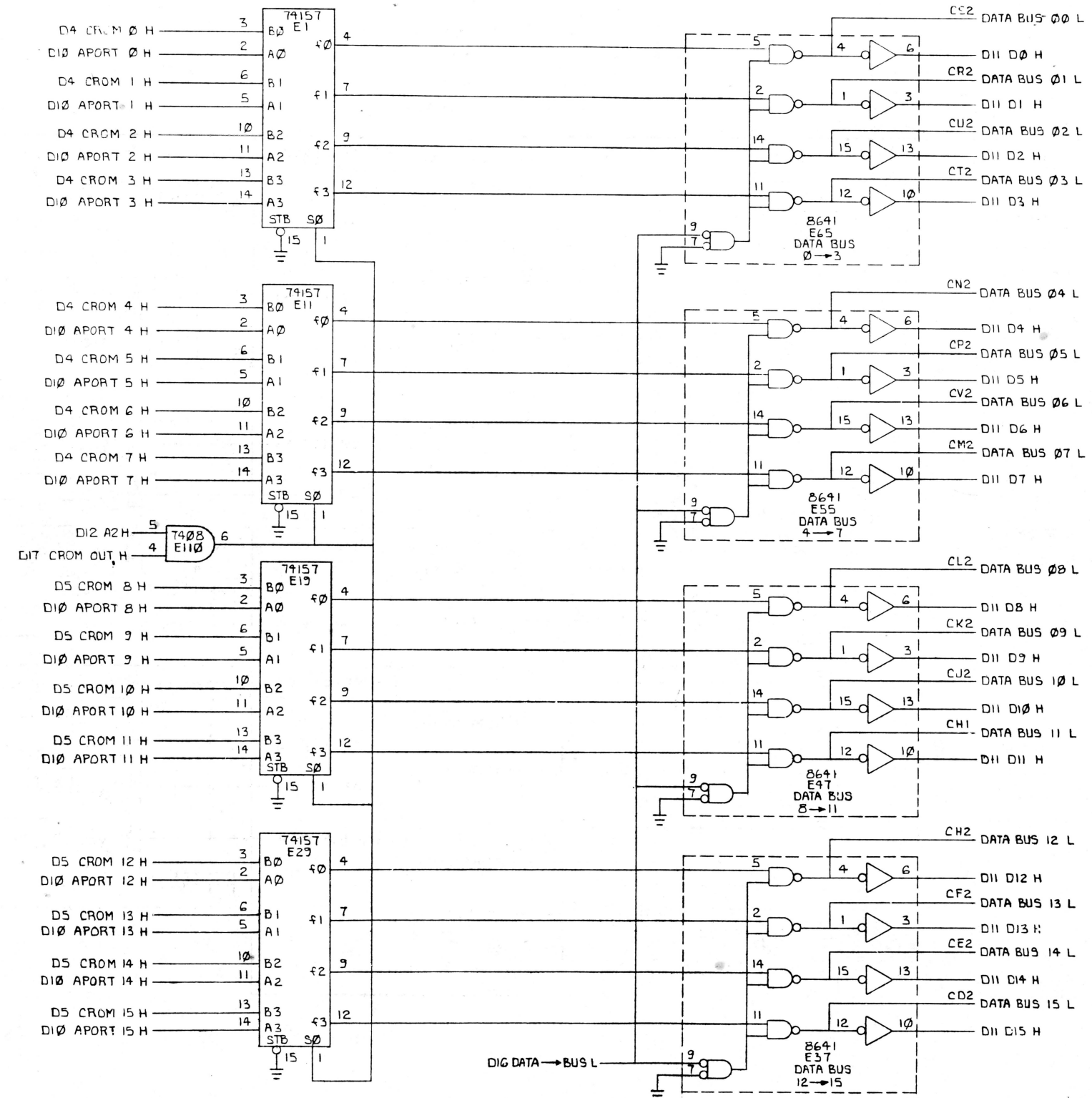
TITLE	INTERPROCESSOR LINK	SIZE CODE	(M10)	NUMBER	M8200-0-1	REV.	M
SCALE	1:1	SHEET	11	OF	22	DIST.	

DEC FORM NO.

MK

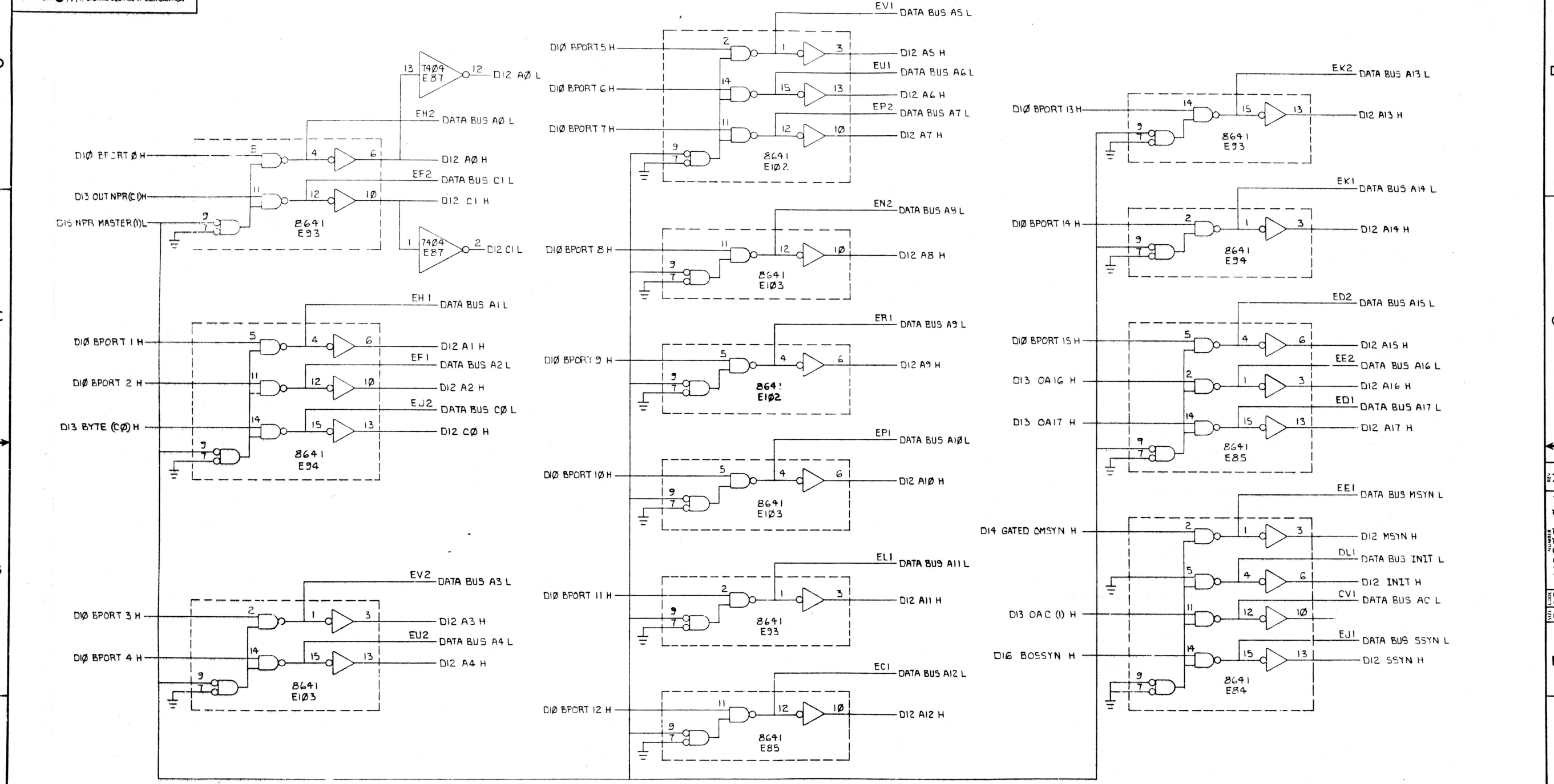
1

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REVISIONS		
CHK	CHANGE NO.	REV

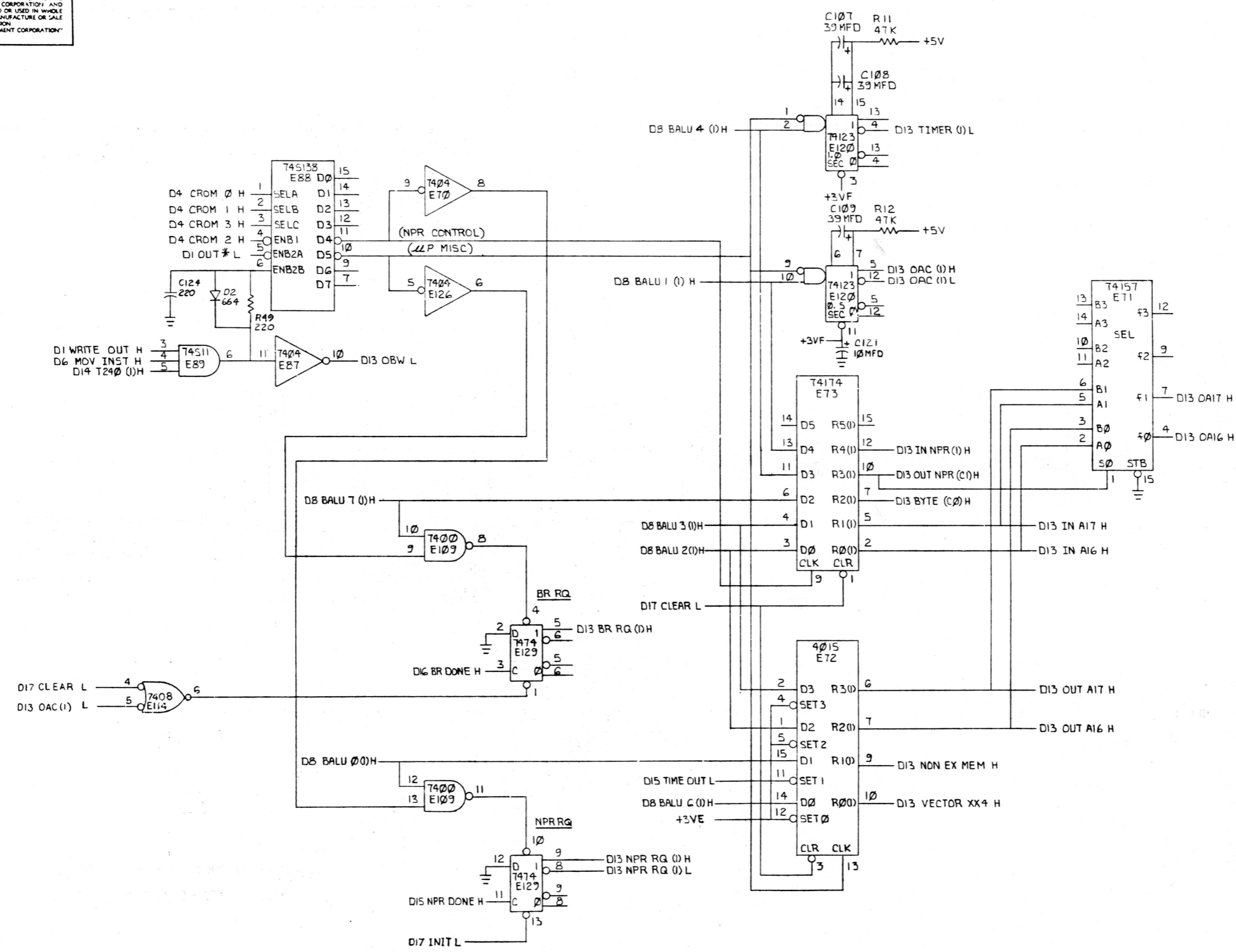
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REVISIONS		
CHK	CHANGE NO.	REV

TITLE		INTERPROCESSOR LINK		SIZE	CODE	NUMBER	REV.
SCALE		SHEET 13 OF 22		D	DCS	M8200-0-1	M
				MK1			

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REVISIONS		
CHK	CHANGE NO.	REV

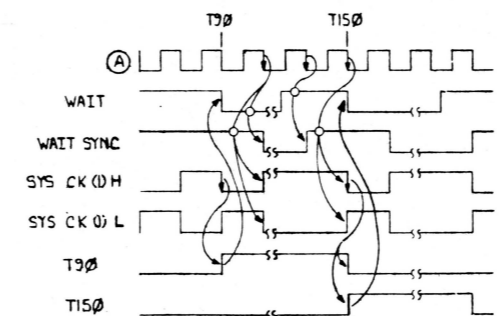
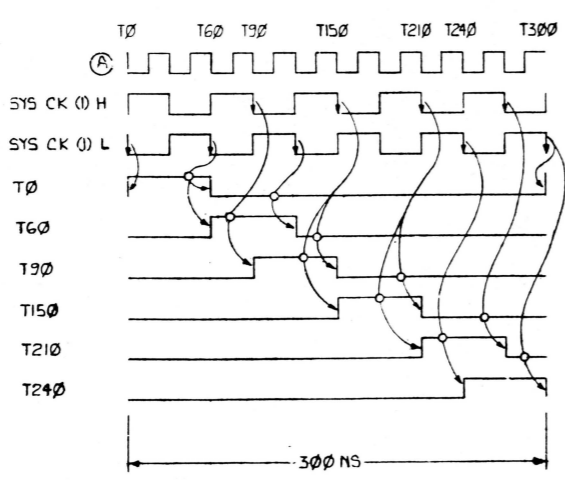
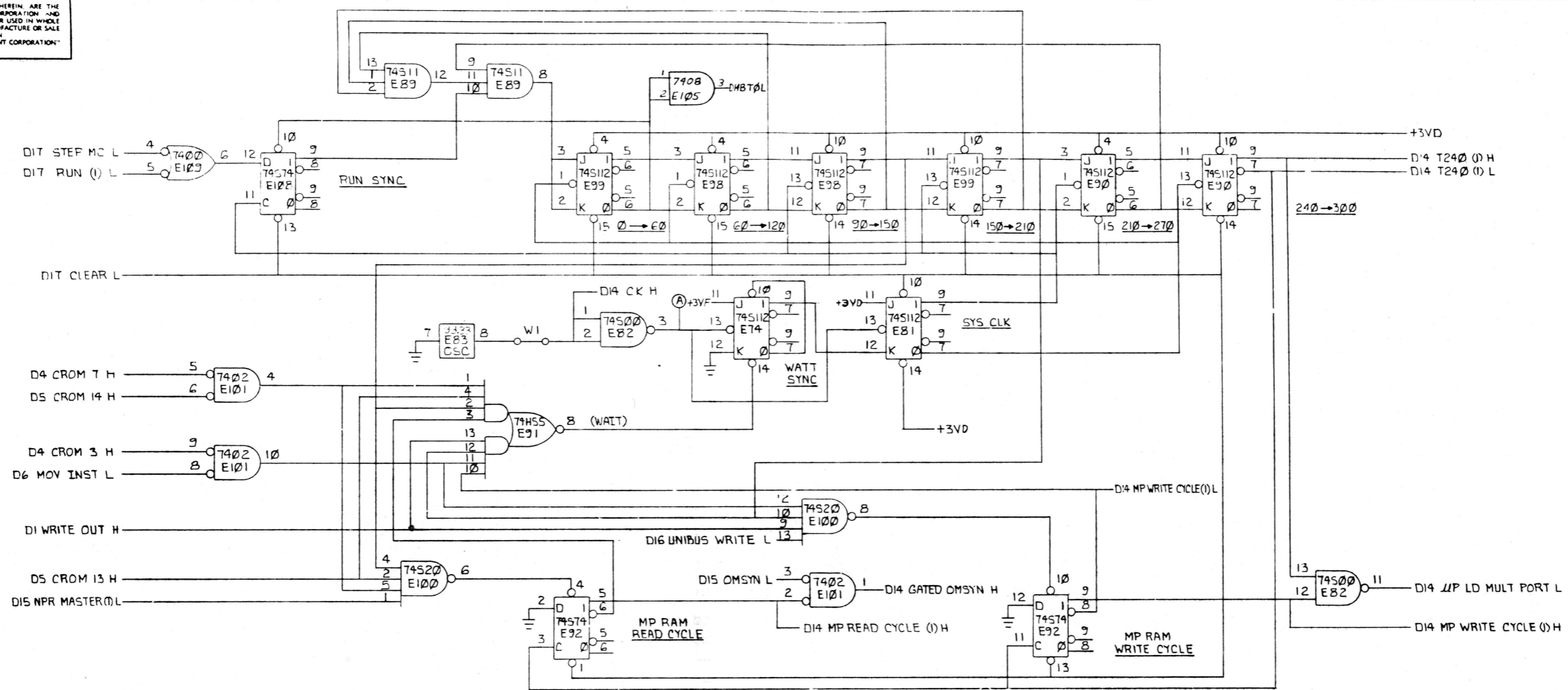
(BR RQ, NPR RQ, VECTOR XX4)

TITLE	INTERPROCESSOR LINK	SIZE CODE	(D13)	NUMBER	M8200-0-1	REV.	M
SCALE	++	SHEET	14	OF	22	DIST.	

REV. M  
NUMBER  
DCS M8200-0-1

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1-0-0000W S D 2



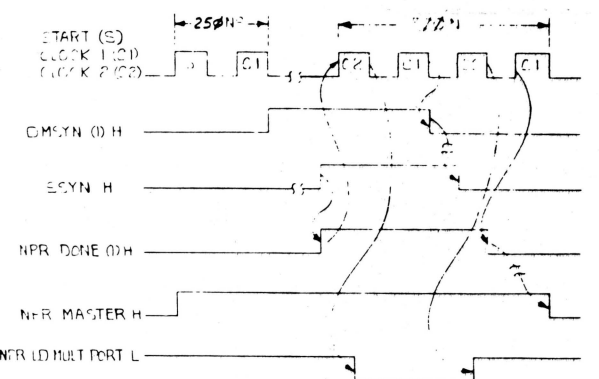
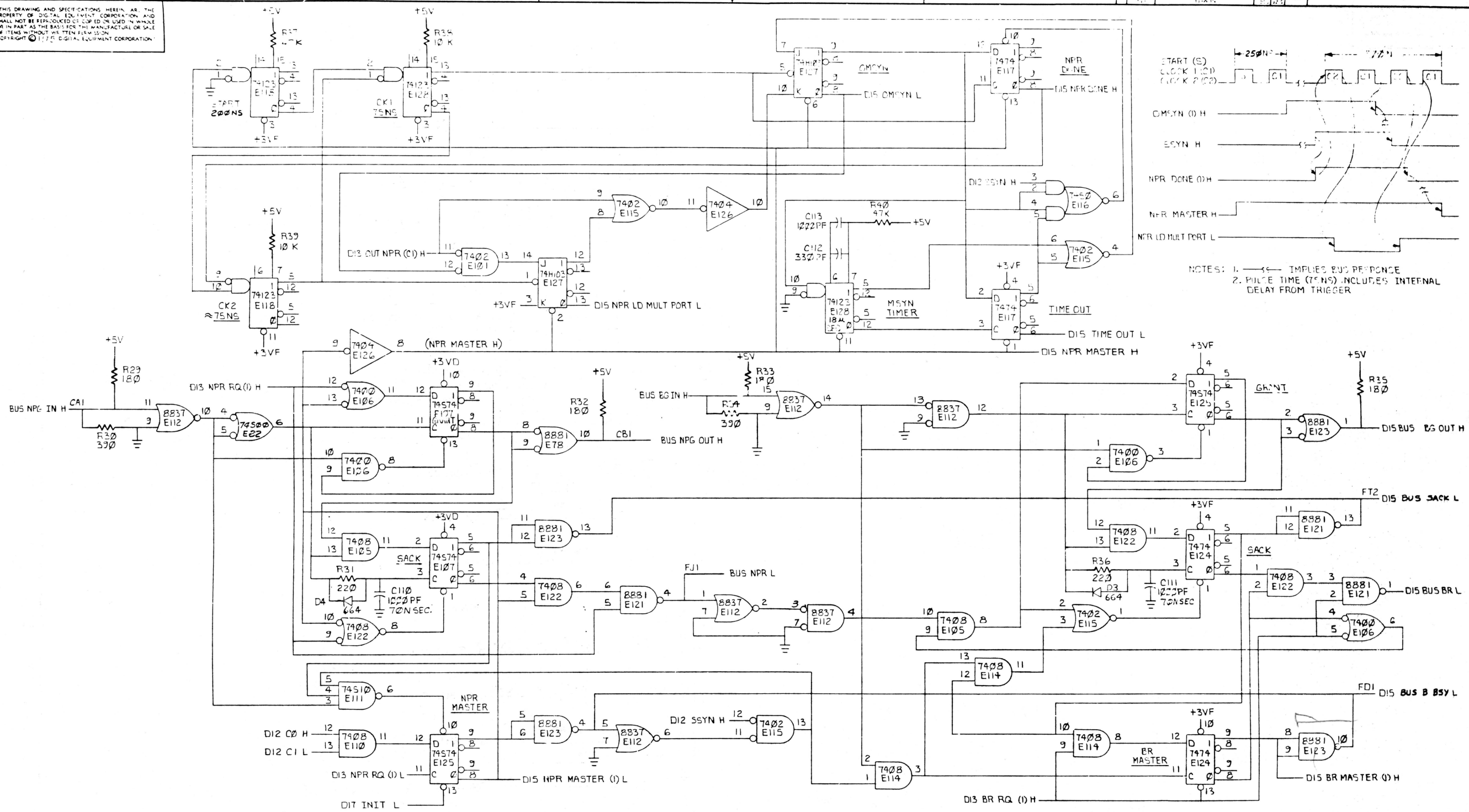
NOTE:  
POINT (A) IS FOR D14 TIMING PURPOSES ONLY.

REVISIONS		
CHK	CHANGE NO	REV

TITLE INTERPROCESSOR LINK		SIZE CODE (D14) DCS	NUMBER M8200-0-1	REV. M
SCALE ++	SHEET 15 OF 28	DIST.		

REV. M M8200-0-1 DCS

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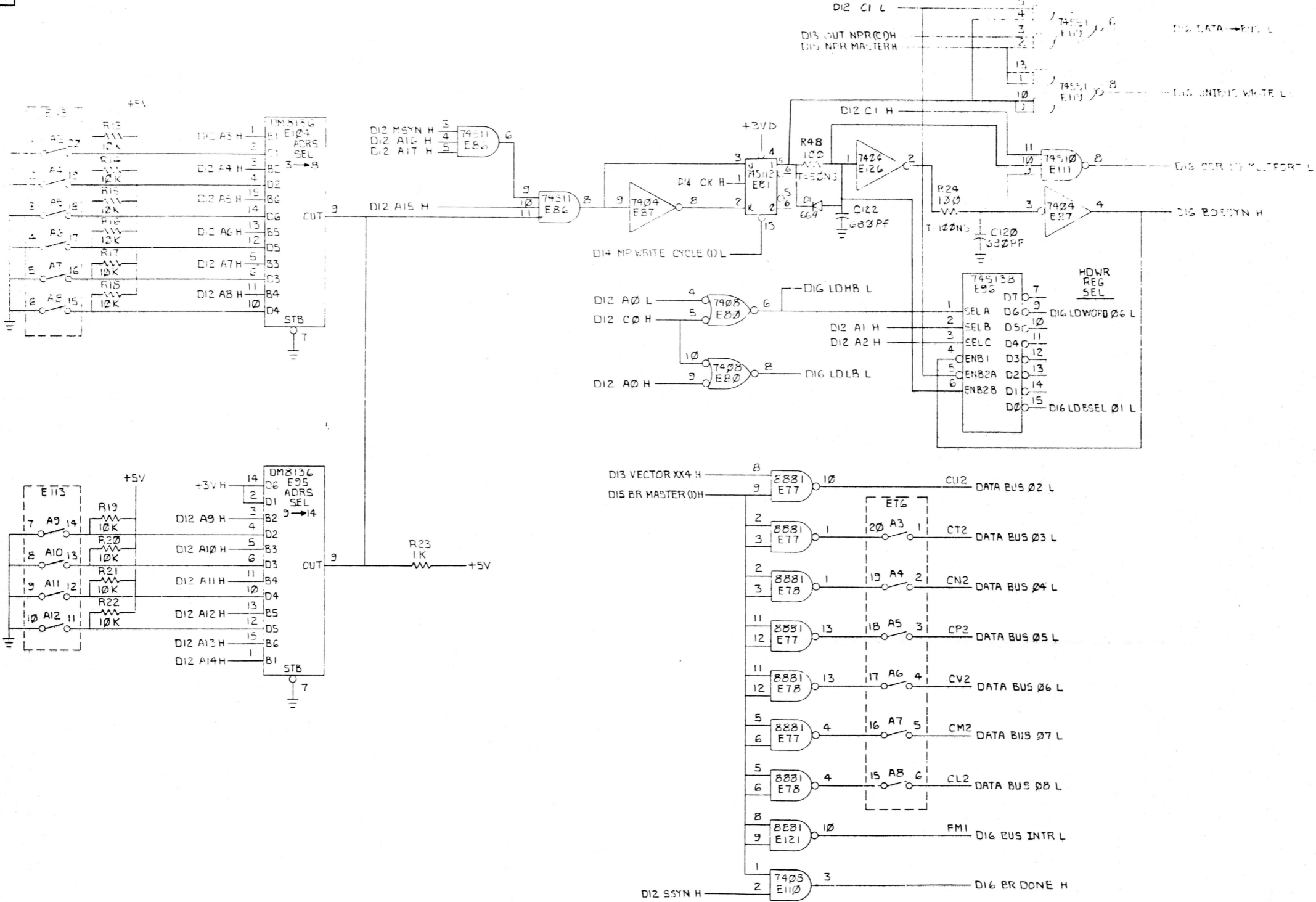


NOTES: 1. ——— IMPLIES BUS RESPONSE  
2. PULSE TIME (TONS) INCLUDES INTERNAL DELAY FROM TRIGGER

REVISIONS		
CHK	CHANGE NO	REV

(NPR, BR, MSYN)		TITLE	INTERPROCESSOR LINK	SIZE CODE	(D15)	NUMBER	M8200-0-1	REV.	M
SCALE	++	SHEET	15	OF	2	DIST.			

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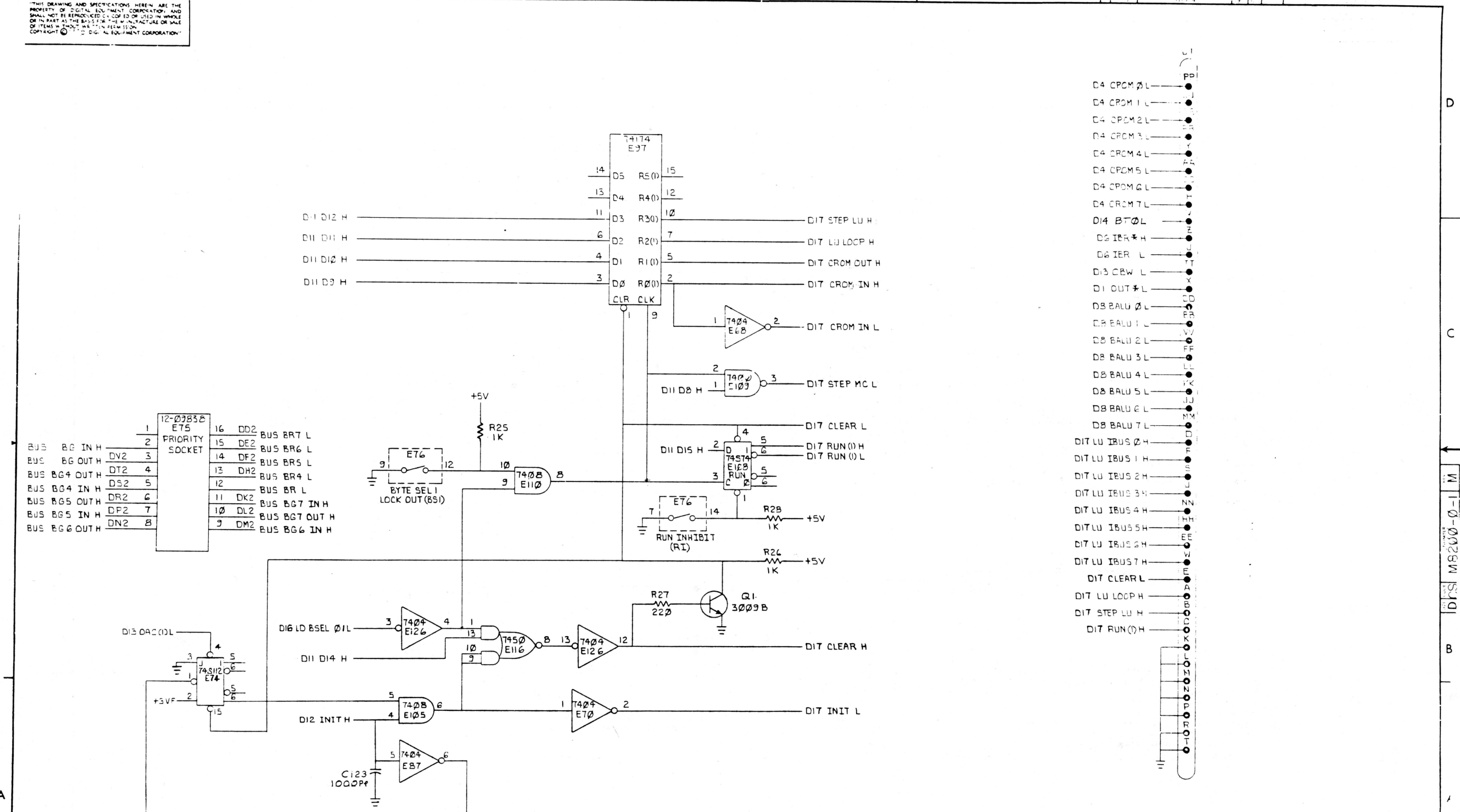


REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 130

TITLE INTERPROCESSOR LINK				SIZE CODE	NUMBER	REV.
				(D16)	DCS	M8200-0-1
SCALE	SHEET	OF	DIST.			

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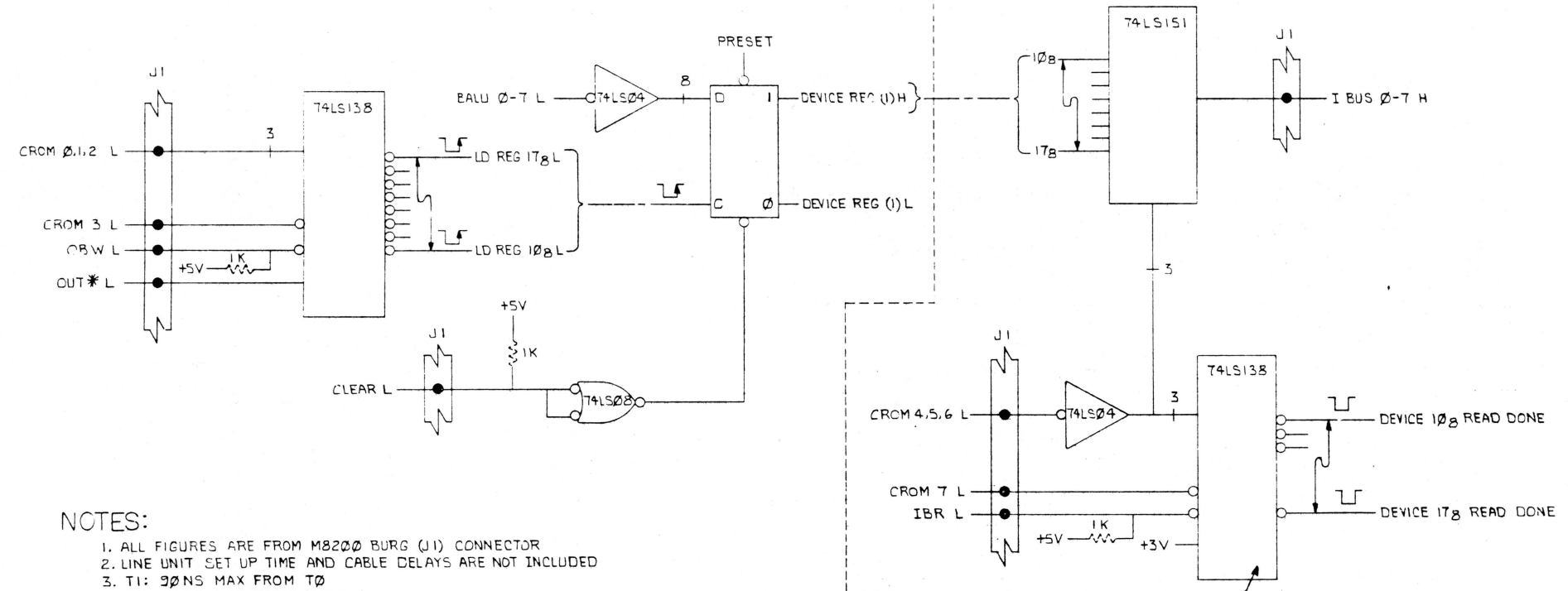
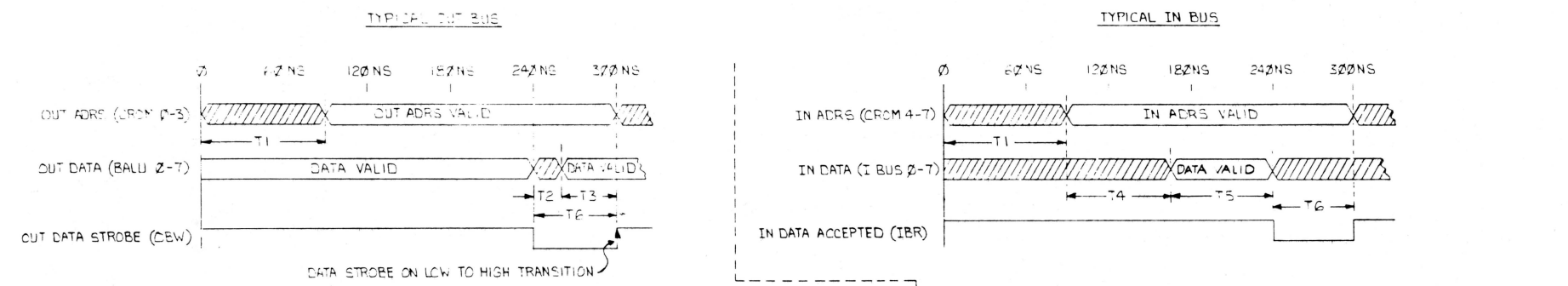
- D4 CROM 0 L
- D4 CROM 1 L
- D4 CROM 2 L
- D4 CROM 3 L
- D4 CROM 4 L
- D4 CROM 5 L
- D4 CROM 6 L
- D4 CROM 7 L
- D4 BT 0 L
- D0 IER \* H
- D0 IER L
- D3 CEW L
- D1 OUT \* L
- D8 BALU 0 L
- D8 BALU 1 L
- D8 BALU 2 L
- D8 BALU 3 L
- D8 BALU 4 L
- D8 BALU 5 L
- D8 BALU 6 L
- D8 BALU 7 L
- DIT LU IBUS 0 H
- DIT LU IBUS 1 H
- DIT LU IBUS 2 H
- DIT LU IBUS 3 H
- DIT LU IBUS 4 H
- DIT LU IBUS 5 H
- DIT LU IBUS 6 H
- DIT LU IBUS 7 H
- DIT CLEAR L
- DIT LU LOOP H
- DIT STEP LU H
- DIT RUN 0 H

REVISIONS		
CHK	CHANGE NO	REV

(CLEAR & LU SIGNALS)

TITLE	INTERPROCESSOR LINK	SIZE/CODE	DCS	NUMBER	M8200-0-1	REV	M1
SCALE	1/1	SHEET	18	OF	2	DIST	

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- NOTES:
1. ALL FIGURES ARE FROM M8200 BURG (J1) CONNECTOR
  2. LINE UNIT SET UP TIME AND CABLE DELAYS ARE NOT INCLUDED
  3. T1: 30 NS MAX FROM T0  
 T2: 17 NS MAX FROM T240  
 T3: 43 NS MIN FROM T300  
 T4: 74 NS MAX FROM T90  
 T5: 84 NS MIN FROM T240  
 T6: 60 NS TYP FROM T240 TO T300
  4. DESIGN ASSUMES OUT BUS/IN BUS DEVICE ADDRESSES #108-178

REQUIRED FOR READ ONCE REGISTERS SUCH AS SILO'S, UARIS ETC...

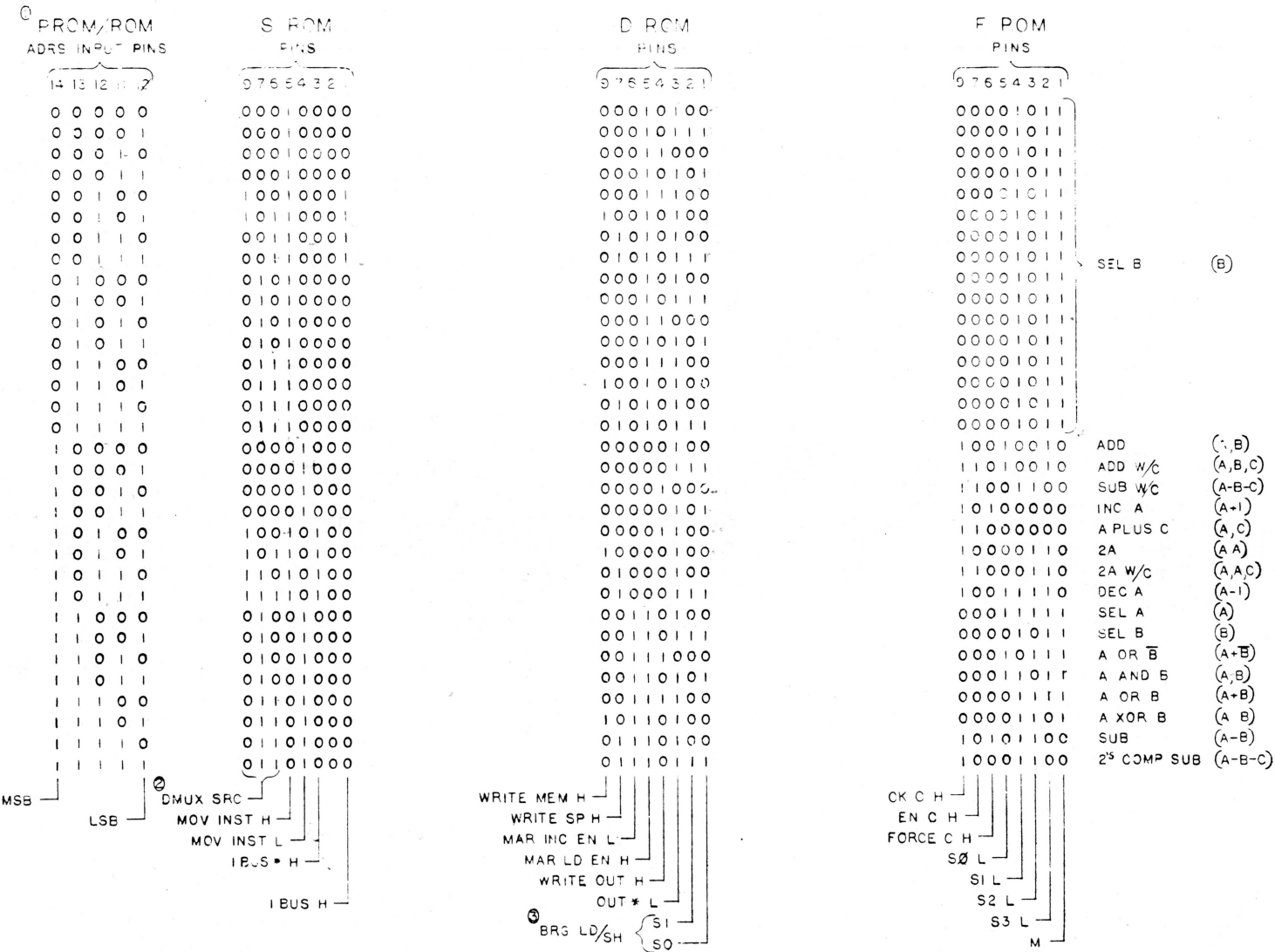
REVISIONS		
CHK	CHANGE NO.	REV.

IPL INTERFACING (DESIGN & TIMING)		TITLE	INTERPROCESSOR LINK	SIZE CODE	D CS	NUMBER	M8200-0-1	REV.	M
SCALE	++	SHEET	19 OF 22	PIST.					





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NOTE:

① INPUT PINS 14 13 12 11 10 CORRESPOND TO

C ROM	14 7 6 5 4	F ROM
BITS	12 11 10 9 8	D ROM
	15 14 13 7 4	S ROM

② DMUX SPC PINS 9 7 6

0 0 0	I
0 0 1	LU : BUS
0 1 0	MEM
0 1 1	ERG
1 0 0	EP CRT EVEN BYTE
1 0 1	EP CRT ODD BYTE
1 1 0	NPR CNTL
1 1 1	UP MISC

③ SI SO

1 1	LOAD
0 1	SHIFT
1 0	NOT PROGRAMED
0 0	HOLD

SEL B (B)

ADD (A, B)

ADD W/C (A, B, C)

SUB W/C (A-B-C)

INC A (A+1)

A PLUS C (A, C)

2A (A, A)

2A W/C (A, A, C)

DEC A (A-1)

SEL A (A)

SEL B (B)

A OR B (A+B)

A AND B (A, B)

A OR B (A+B)

A XOR B (A, B)

SUB (A-B)

2<sup>5</sup> COMP SUB (A-B-C)

REVISIONS		
CHK	CHANGE NO.	REV.

(S-D-F ROM PATTERNS)

TITLE	INTERPROCESSOR LINK	SIZE/COOP	NUMBER	REV.
SCALE	SHEET 2 OF 2	DCS	M8200-0-1	M
DST.		MK		

DCS M8200-0-1 M

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-CS-M8200-0-1		CIRCUIT SCHEMATIC		REF
2	2	K-CO-M8200-0-4		X-Y COORDINATE HOLE LOCATION		REF
3	3	D-MD-5011842-0-0		ASSY/DRILLING HOLE LAYOUT		REF
4	4	B-MH-M8200-0-6		MODULE ECO HISTORY		REF
5	5		5011842-00	M8200	1	
6	6		1000023-00	330.0 MMF 100V 5%200PPM DM15S (10-00	1	C112
7	7		1001610-00	.01 MFD 50V -20+80 Z5U DISC 8000PF MIN	102	C1-C61,C63-C69,C100-C102, CONT C71-C92,C94-C98,C104-C106,C10
8	8		1000076-00	39 MFD 10V 10% 150D S.TA (10-00	3	C107,C108,C109
9	9		1000042-00	1000.0 MMF 100V 5%200PPM DM15S (10-00	4	C110,C111,C113,C123
10	10		1004813-00	10 MFD 20V 10% 150D S.TA (10-00	7	C121,C114-C119
11	11		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	3	E117,E124,E129
12	12		1905575-00	7400 NAND GATE-QUAD 2IN	2	E106,E109
13	13		1905580-00	DEC 7450 A-0-I XPNDBLE GATE-DUAL 2X2	2	E24,E116
14	14		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	2	E101,E115
15	15		1909063-00	DEC 74H55 A-0-I XPNDBLE GATE-2 WIDE 4INP	1	E91
16	16		1909686-00	7404 INVERTER GATE-HEX 1IN	4	E68,E70,E87,E126
17	17		1909705-00	DEC 8881 NAND GATE-QUAD 2IN OPN COLL	4	E77,E78,E121,E123
18	18		1909936-00	74151 MUX 1 OF 8	9	E26,E57-E64
19	19		1910087-00	DEC 4015 FF-D QUAD,15MHZ,COMMON CLOCK	1	E72
20	20		1910155-00	DEC 7408 AND GATE,POS.QUAD 2IN 14	5	E80,E105,E110,E114,E122
21	21		1910409-00	DEC 74H103 FF-JK DUAL,EDGE TRIGGER,50MHZ	1	E127
22	22		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	3	E118,E120,E128
23	23		1910532-00	74S00 NAND GATE-QUAD 2IN*	2	E13,E82
24	24		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E111
25	25		1910537-00	74S11 AND GATE-TRIPLE 3INPUT	2	E86,E89
26	26		1910539-00	74S20 NAND GATE-DUAL 4INPUT	1	E100
27	27		1910545-00	74S112 FF-JK DUAL,EDGE TRIGGER	5	E81,E90,E98,E99,E74
28	28		1910549-00	74S158 MUX 1 OF 2 (QUAD)	1	E33
29	29		1910623-00	74194 SHIFT REG.,4BIT RIGHT/LEFT	2	E27,E35

REVISION HISTORY			VARIATIONS FOR THIS ASSY.			FIRST USED ON:			DIGITAL EQUIPMENT CORPORATION		
CHK	ECO NO	REV	00, YA, YB, YC	MADE BY:	DATE:	TITLE	MAYNARD, MASSACHUSETTS				
R.R	00011	N		R KOPPENAL	20-MAR-78	PARTS LIST					
C.L	MK012	F									
				CHECKED:	DATE:	INTERPROCESSOR LINK UP					
						(M8200-00)					
				DSN.ENG.:	DATE:		SIZE	CODE	DOCUMENT NUMBER	REV	
				R.LISEE	20-MAR-78		K	FL	M8200-0-DBF	13	
				PROD.:	DATE:						
				R WALL	20-MAR-78						
										EDIT#	
				RESP.ENG.:	DATE:	ASSY.NO.:					
				R.LISEE	20-MAR-78	D-UA-M8200-0-0				13	

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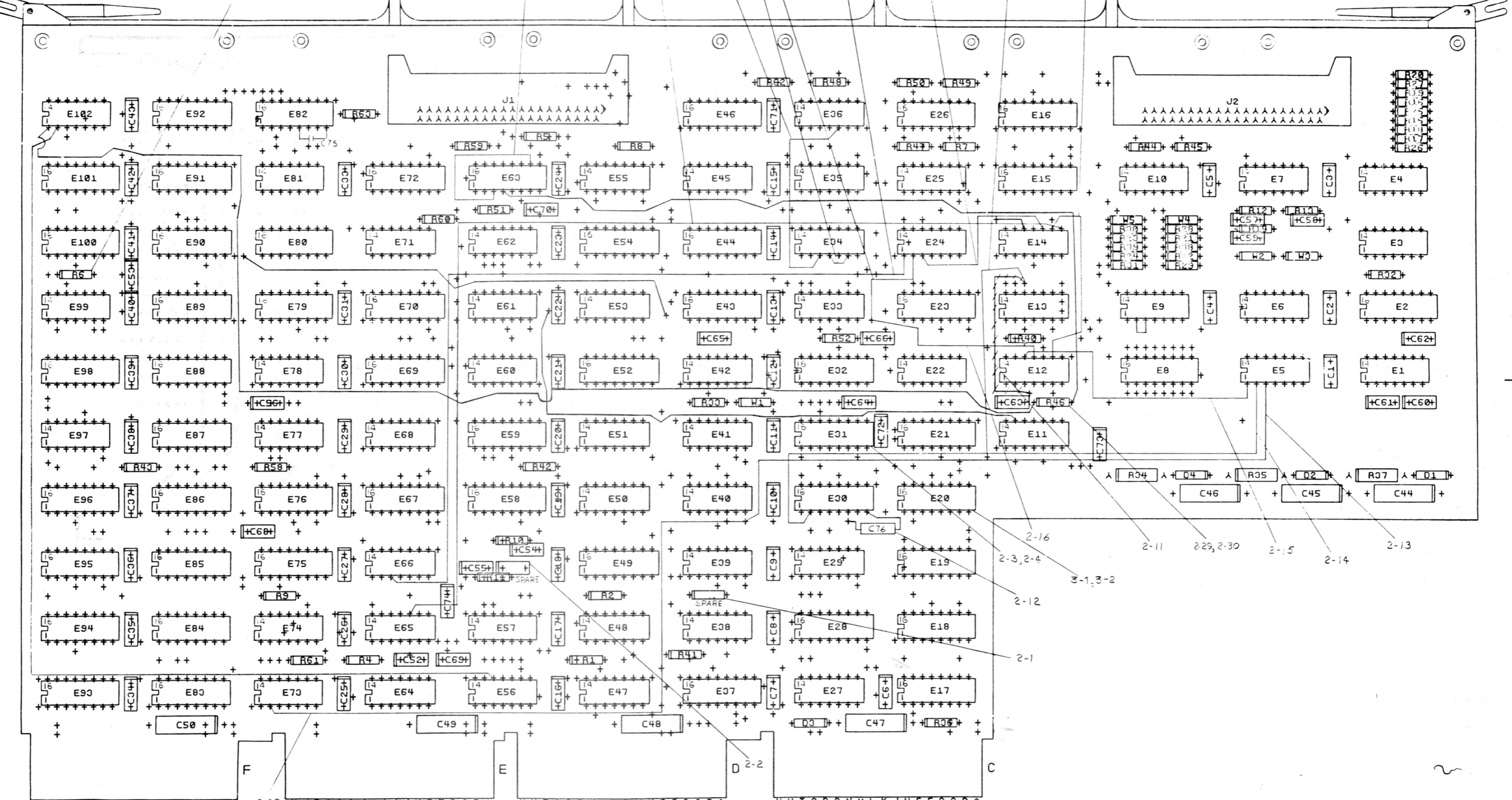
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1910650-00	74161 COUNTER, SYNCHR. UP	5	E10, E18, E28, E34, E36
31	31		1910652-00	74174 FF-D HEX	2	E73, E97
32	32		1910653-00	MEMORY READ/WRITE 64BIT	2	E49, E50
33	33		1910818-02	3106 MEMORY READ/WRITE 256 TRISTAT	8	E43-E46, E51-E54
34	34		1910544-00	74S74 FF-D DUAL, EDGE TRIGGER	5	E23, E92, E107, E125, E108
35	35		1910957-00	74S175 FF-D QUAD COMMON CLOCK	2	E40, E41
36	36		1911116-00	DEC 8837 RECEIVER, BUS, HEX, UNIBUS	1	E112
37	37		1911330-00	74173 FF-D QUAD, TRISTATE	4	E22, E30, E67, E69
38	38		1910655-00	74157 MUX 1 OF 2 (QUAD)	13	E1, E4, E5, E11, E12, E19, E29, E31, E38, E48, E56, E66, E71
39	39		1911579-00	8641 TRANSCEIVER, BUS, QUAD, UNIBUS	10	E37, E47, E55, E65, E84, E85, E93, E94, E102, E103
40	40		1911675-00	74S138 DECODER-THREE INPUT	2	E88, E96
41	41		1911712-00	74S51 AND-OR GATE-INVERT DUAL 2W/2IN	1	E119
42	42		1910531-00	DEC 74S181 ALU-4BIT	2	E39, E42
43	43		1912395-00	DM 8136 COMPARATOR-6BIT UNIFIED BUS	2	E95, E104
44	44		1912741-00	82S112 MEMORY READ/WRITE, 32BIT, TRI-S	4	E2, E3, E20, E21
45	45		1302177-00	47 K 1/4W 5% CC (13-00)	4	R11, R12, R40, R37
46	46		1302394-00	***** THIS ITEM IS NOT USED *****	-	
47	47		1300271-00	220 1/4W 5% CC (13-00)	4	R27, R31, R36, R49
48	48		1300309-00	390 1/4W 5% CC (13-00)	3	R9, R30, R34
49	49		1300365-00	1 K 1/4W 5% CC (13-00)	19	R1-R8, R23, R25, R26, R28, R41-R47
50	50		1300479-00	10 K 1/4W 5% CC (13-00)	12	R13-R22, R38, R39
51	51		1301322-00	180 1/4W 5% CC (13-00)	5	R10, R29, R32, R33, R35
52	52		1211164-06	SW, DIP 1P 1A 10POS	2	E76, E113
53	53		9000024-01	EYELET, ROLLED FLANGE, .121 OD X .196 LG	12	
54	54		1503100-00	DEC3009B NPN 200MW SI 20 25	1	Q1
55	55		1811660-05	OCILLATOR, CRYSTAL 33.33MHZ, 14PIN DIP	1	E83
56	56		1209838-00	SOCKET 16PIN	1	E75
57	57		1209941-02	HEADER 100 40POS RT ANGLE	1	J1
58	58		1210711-02	HANDLE, HEX MODULE, 10-1/2	1	
59	59		23120A1-00	A1-07 PROM,	1	E79
60	60		23121A1-00	A1-07 PROM,	1	E32
61	61		23122A1-00	A1-07 PROM,	1	E25
62	62		5408778-00	FLUG PRIORITY	1	E75
63	63		1211813-00	SOCKET 16PIN LOW PROFILE	8	E6-E9, E14-E17
64	64		23082A9-00	***** THIS ITEM IS NOT USED *****	-	
65	65		23083A9-00	***** THIS ITEM IS NOT USED *****	-	
66	66		23084A9-00	***** THIS ITEM IS NOT USED *****	-	
67	67		23085A9-00	***** THIS ITEM IS NOT USED *****	-	
68	68		23086A9-00	***** THIS ITEM IS NOT USED *****	-	
69	69		23087A9-00	***** THIS ITEM IS NOT USED *****	-	
70	70		23088A9-00	***** THIS ITEM IS NOT USED *****	-	
71	71		23089A9-00	***** THIS ITEM IS NOT USED *****	-	
72	72		9105740-55	***** THIS ITEM IS NOT USED *****	-	
73	73		1000026-00	680.0 MMF 100V 5%200PFM DM15S (10-00)	2	C120, C122
74	74		1300229-00	100 1/4W 5% CC (13-00)	2	R24, R48
75	75		23392A9-00	***** THIS ITEM IS NOT USED *****	-	

! TITLE	! PARTS LIST	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! DIGITAL EQUIPMENT CORPORATION !	! INTERPROCESSOR LINK UP !	! K ! PL !	! M8200-0-DBP !	! P !
! MAYNARD, MASSACHUSETTS !	! (M8200-00) !			

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
76	76		23393A9-00	***** THIS ITEM IS NOT USED *****	-	
77	77		23394A9-00	***** THIS ITEM IS NOT USED *****	-	
78	78		23395A9-00	***** THIS ITEM IS NOT USED *****	-	
79	79		23396A9-00	***** THIS ITEM IS NOT USED *****	-	
80	80		23397A9-00	***** THIS ITEM IS NOT USED *****	-	
81	81		23398A9-00	***** THIS ITEM IS NOT USED *****	-	
82	82		23399A9-00	***** THIS ITEM IS NOT USED *****	-	
83	83		23414A9-00	***** THIS ITEM IS NOT USED *****	-	
84	84		23415A9-00	***** THIS ITEM IS NOT USED *****	-	
85	85		23416A9-00	***** THIS ITEM IS NOT USED *****	-	
86	86		23417A9-00	***** THIS ITEM IS NOT USED *****	-	
87	87		23418A9-00	***** THIS ITEM IS NOT USED *****	-	
88	88		23419A9-00	***** THIS ITEM IS NOT USED *****	-	
89	89		23420A9-00	***** THIS ITEM IS NOT USED *****	-	
90	90		23421A9-00	***** THIS ITEM IS NOT USED *****	-	
91	91		1100114-00	D 664 Q5\75PCB PIV= 25V SP	4	D1-D4
92	92		1000021-00	220.0 MMF 100V 5%200PPM DM15S	1	C124
93	93		23725A9-00	A9-01	0	
94	94		23726A9-00	A9-01	0	
95	95		23777A9-00	A9-01	0	
96	96		23728A9-00	A9-01	0	
97	97		23729A9-00	A9-01	0	
98	98		23730A9-00	A9-01	0	
99	99		23731A9-00	A9-01	0	
100	100		23732A9-00	A9-01	0	
101	101		23622A9-00	A9-01	0	
102	102		23623A9-00	A9-01	0	
103	103		23624A9-00	A9-01	0	
104	104		23625A9-00	A9-01	0	
105	105		23626A9-00	A9-01	0	
106	106		23627A9-00	A9-01	0	
107	107		23628A9-00	A9-01	0	
108	108		23629A9-00	A9-01	0	
109	109		23630A9-00	A9-01	0	
110	110		23631A9-00	A9-01	0	
111	111		23632A9-00	A9-01	0	
112	112		23633A9-00	A9-01	0	
113	113		23634A9-00	A9-01	0	
114	114		23635A9-00	A9-01	0	
115	115		23636A9-00	A9-01	0	
116	116		23637A9-00	A9-01	0	

TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	INTERPROCESSOR LINK UP (M8200-00)	K	PL	M8200-0-DBP	1P

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NOTES: ETCH CUTS - SIDE E14-11&12;R46 &  
 FEEDTHRU UNDER E13;E11-13 & C63  
 ETCH CUTS - SIDE 2;E13-2 NEAR E88;E17  
 CUTS E13-12 & E17 NEAR E-1  
 TOTAL OF 5 CUTS  
 FOR PLOT WORK SEE SHEET B

CHG#	CHANGE NO	REV	A	B	C	D	E
1	1	1					
2	2	1					
3	3	1					
4	4	1					
5	5	1					

WIRE ADDS: E11-13 TO FEEDTHRU NEAR C22  
 R46 TO E102-1  
 R46 TO E63-4  
 FEEDTHRU NEAR C63 TO FEEDTHRU OVER E13-12  
 E14-12 TO FEEDTHRU NEAR E14-14  
 E9-2 & 3  
 FEEDTHRU NEAR E80 TO FEEDTHRU NEAR E43  
 E56-12 TO E102-2  
 ADD CAP-C75 BETWEEN E82-5&8

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

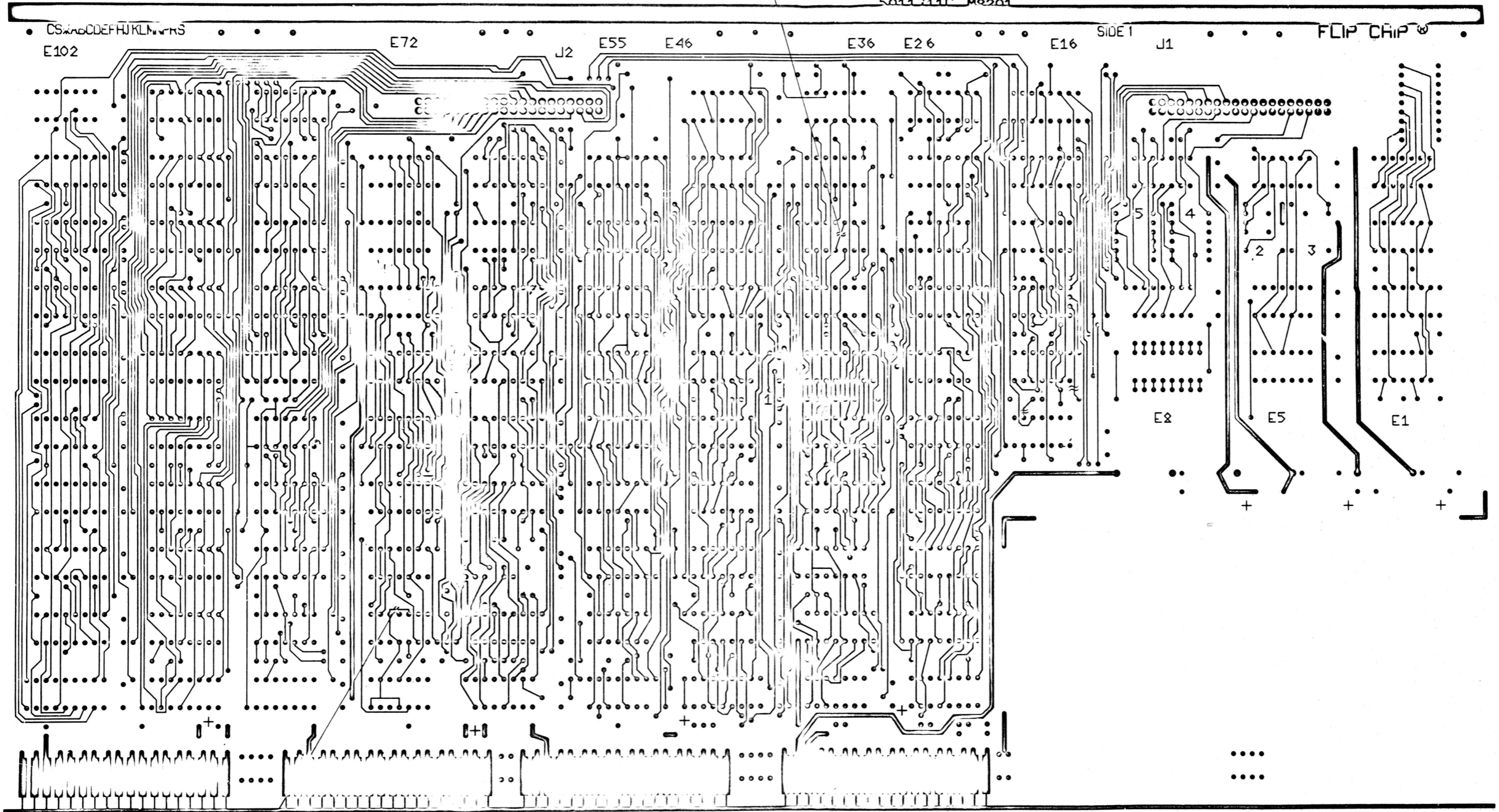
SIGNATURES	DATE	TITLE
DRN. BURNELL	11-26-76	IPL SLU LOW
CHK'D. T. SHEPHERD	12-26-76	
ENG. R SMITH	2-27-77	
PROJ. ENG. R SMITH	3-27-76	
PROD. S WALL	3-27-76	
SCALE 2/1		SIZE CODE NUMBER REV
SHT. 1 OF 8		D UA 18201-E-0
NEXT HIGHER ASSY. E-DD-M8201-0		

digital

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LAYER 1

5011311C M8201



VIEWED FROM SIDE 1 WITHOUT INK

REVISIONS		
CHK	CHANGE NO	REV

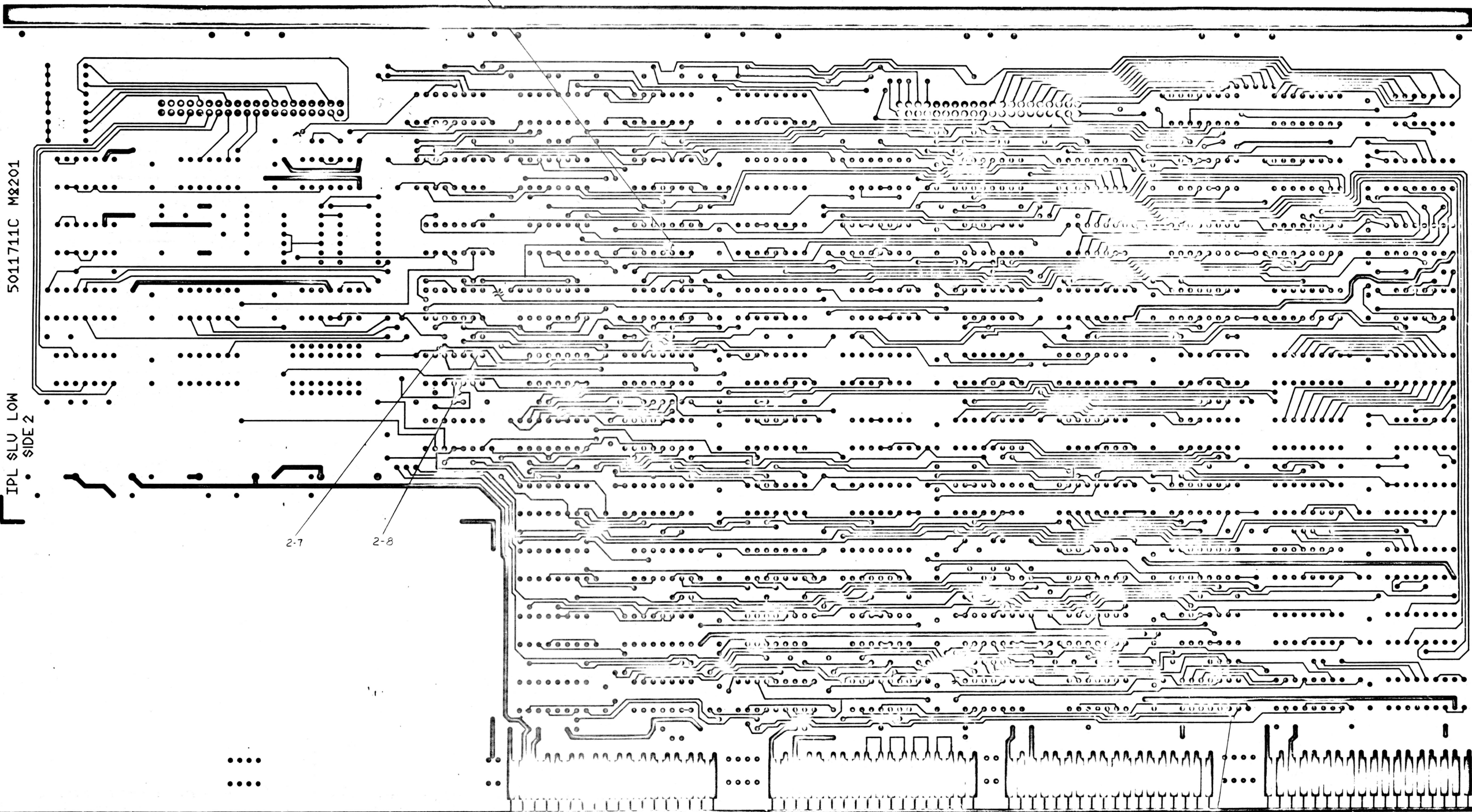
TITLE	IPL SLU LOW	DESIGN CODE	D-1	NUMBER	M8201	REV	1-1	E
SCALE	1:1	SHEET	2	OF	8	LIST		

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LAYER 2

5011711C M8201

IPL SLU LOW SIDE 2



VIEWED FROM SIDE 2 WITHOUT INK

REVISIONS		
CHK	CHANGE NO	REV

TITLE	IPL SLU LOW	SIZE CODE	D-4	NUMBER	M8201	REV	1-1
SCALE	1:1	SHEET	3 OF 6	DIST			

7 6 5 4 3 2 1

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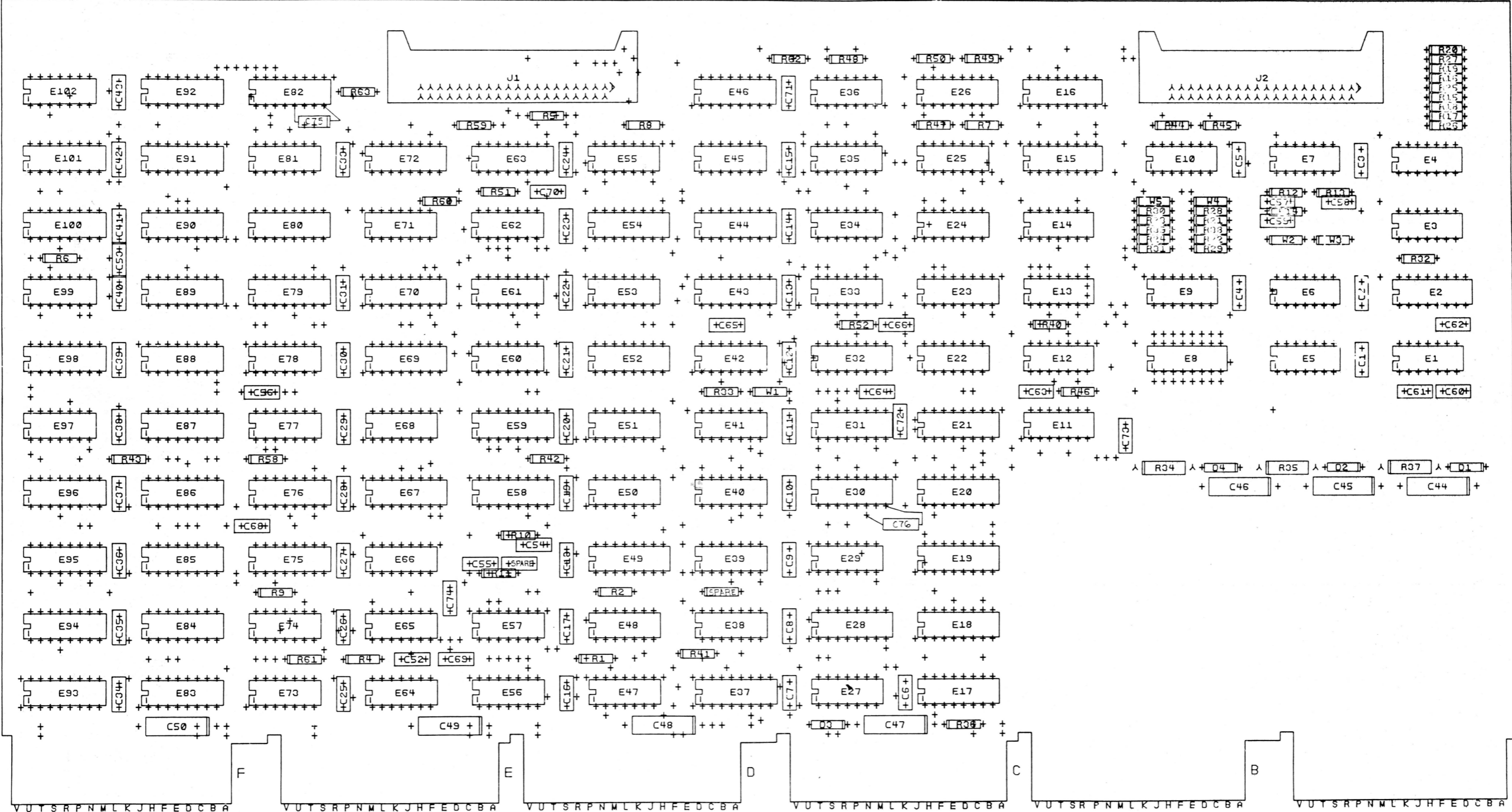
4

3

COMPONENT SIDE VIEW

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1-1-102N(1) 2 1



NOTES: WITH INK

CHK	CHANGE NO	REV

BOARD FABRICATION INFORMATION	
PANEL SIZE	
PANEL DATA DWG.#	
PANEL MATH FL-GR	-C 1/1
DEC PS - 1400	
QTY. OF LAYERS	
PTH. PRINT AND ETCH	
SOLDER MASK SIDE 2 BOTH SIDES	
GOLD CONTACTS BOTTOM TOP	

SIGNATURES	DATE

digital

TITLE  
IPL SUB LOW

SIZE CODE NUMBER REV  
D UA 1-21-0-0 t

ETCH REV.

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1 MS#

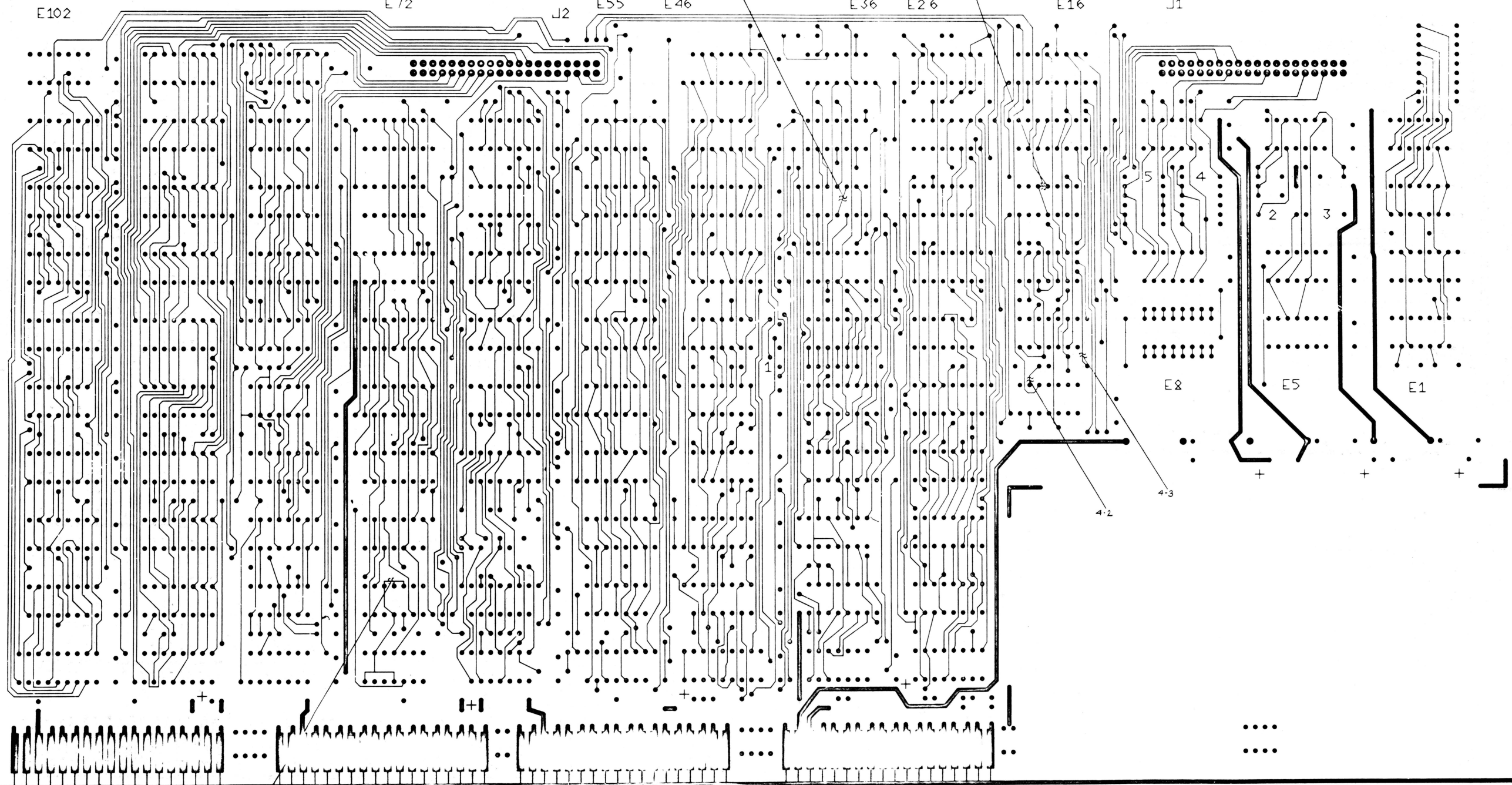
1978

# LAYER 1

5011-11C M8201

CS\*ABCDEFGHIJKLMNPRS

FLIP CHIP



REV.	DATE	BY

IPL SLU LOW  
2/1 5 8 D UA M8201-0-0 E

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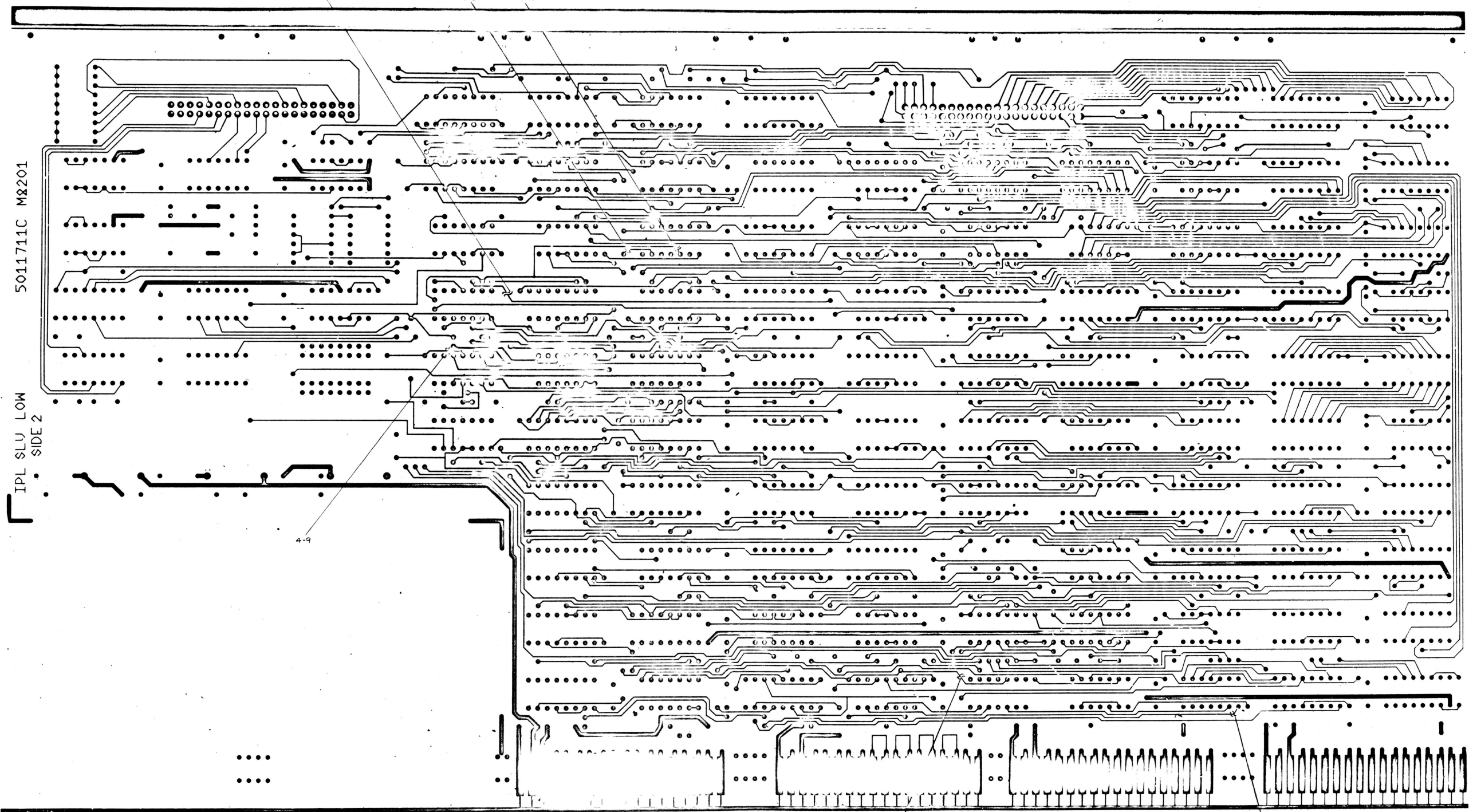
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HO A34AJ

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5011711C M8201

IPL SLU LOW  
SIDE 2

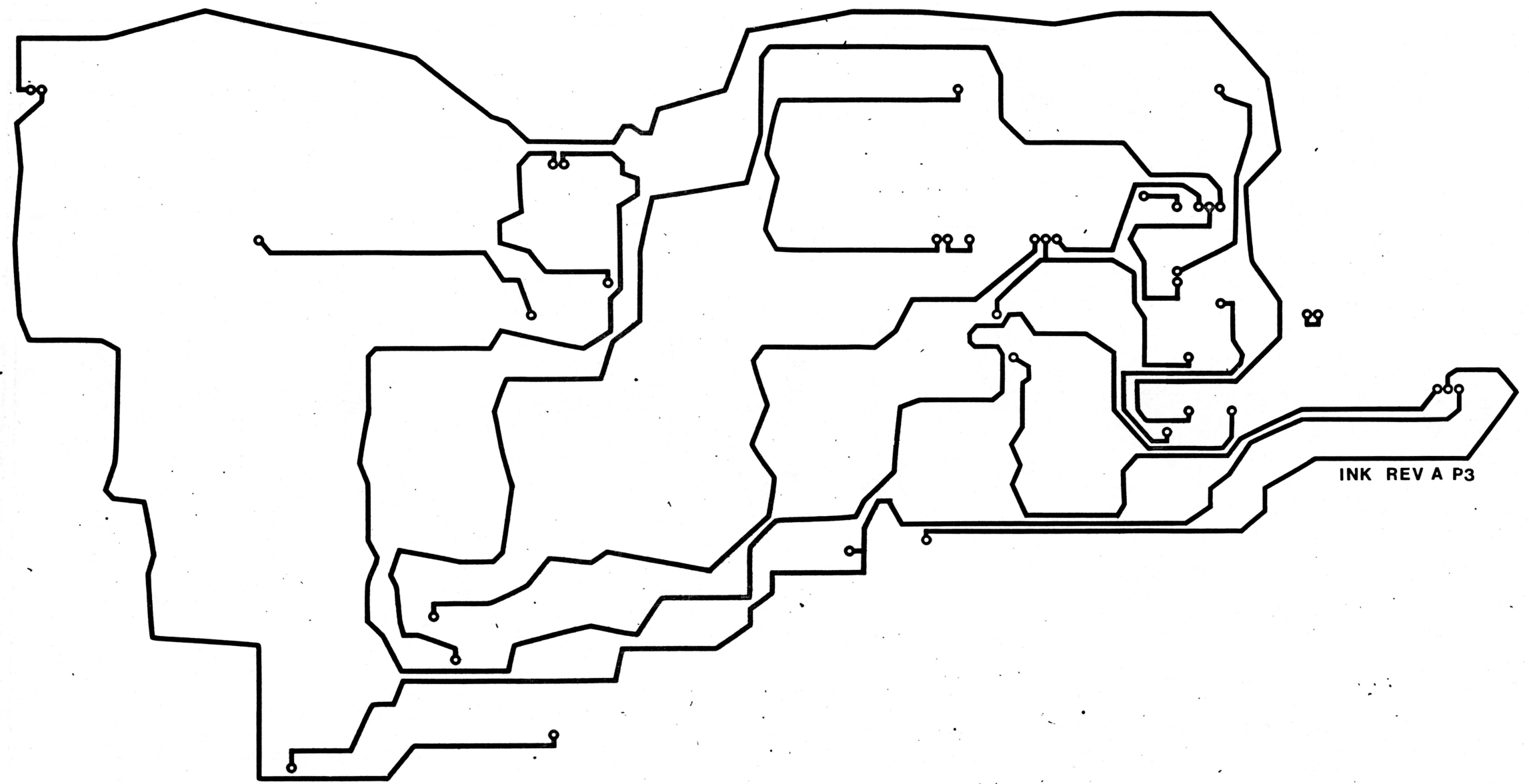
WITH INK

REVISIONS	
NO.	DESCRIPTION

TITLE	DRAWN	CHECKED	DATE
IPL SLU LOW			
D LA M8201 - 0 - 0 E			
SHEET 2/1	TOTAL 6		

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COPPER INK REV A-P3



INK REV A P3

REVISIONS		
CHK	CHANGE NO	REV

TITLE	IPL SLU LOW	SIZE CODE	D U A M8201-0-0	NUMBER		REV	E
SCALE	2/1	SHEET	7 OF 8	DIST.			

8 7 6 5 4 3 2 1

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U 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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**REWORK INSTRUCTIONS**  
**REWORK WITHOUT INK**

- ECO #2**
- 2-1. REMOVE R3
  - 2-2. REMOVE C51
  - 2-3. REMOVE E31 (23-223A2)
  - 2-4. ADD E31 (23-345A2)
  - 2-5. CUT ETCH SIDE 1 E65-10
  - 2-6. CUT ETCH SIDE 1 E34-4 (UNDER E34)
  - 2-7. CUT ETCH SIDE 2 E12-11
  - 2-8. CUT ETCH SIDE 2 E12-12
  - 2-9. CUT ETCH SIDE 2 E34-3
  - 2-10. CUT ETCH SIDE 2 E73-2
  - 2-11. REMOVE THE WIRE IN PREVIOUS REWORK FEEDTHRU NEAR C63 TO FEEDTHRU OVER E13-12
  - 2-12. ADD C76 680PF, E30-B TO FEEDTHRU BELOW E30-6
  - 2-13. JUMPER E5-3 TO FEED THRU BELOW E40-7
  - 2-14. JUMPER E5-2 TO E30-2
  - 2-15. JUMPER E5-1 TO E12-12
  - 2-16. JUMPER E12-11 TO FEEDTHRU NEAR E33-7
  - 2-17. JUMPER E24-1 TO E66-3
  - 2-18. JUMPER E24-2 TO FEEDTHRU NEAR E33-7
  - 2-19. JUMPER E24-3 TO E14-10
  - 2-20. JUMPER E34-3 TO E36-5
  - 2-21. JUMPER E34-6 TO E34-4
  - 2-22. JUMPER E73-2 TO FEEDTHRU BELOW E40-7
  - 2-23. JUMPER E14-9 TO E12-9
  - 2-24. JUMPER E14-8 TO E65-10
  - 2-25. JUMPER FEEDTHRU OVER E13-12 TO FEEDTHRU NEAR E21-8
  - 2-26. JUMPER E63-10 TO E63-3
  - 2-27. REMOVE R6, 220 OHM
  - 2-28. ADD R6, 120 OHM (13-00247)
  - 2-29. REMOVE R46, 220 OHM
  - 2-30. ADD R46, 120 OHM (13-00247)

- ECO #3**
- 3-1. COMPONENT DELETES SIDE 1:  
DELETE E20 (PN 23-302A2)
  - 3-2. COMPONENT ADDS SIDE 1:  
ADD E20 (PN 23-375A2)

**REWORK WITH INK**  
**ECO #4**

- ETCH CUTS SIDE 1:**
- 4-1. BETWEEN E65-10 AND E65-12
  - 4-2. AT E11-13
  - 4-3. AT RIGHT SIDE OF R46
  - 4-4. BETWEEN E34-4 AND E34-10
  - 4-5. BETWEEN E14-12 AND E14-11
- ETCH CUTS SIDE 2:**
- 4-6. AT E6-12 NEAR E56-8
  - 4-7. AT E73-2
  - 4-8. AT F/T TO THE LEFT OF E39-7
  - 4-9. BETWEEN E12-11 AND F/T TO RIGHT OF E12-8
  - 4-10. AT F/T ADJACENT TO E13-12
  - 4-11. AT E34-3

REVISIONS		
CHK	CHANGE NO	REV

TITLE	IPL SLU LOW	SIZE CODE	D UA	NUMBER	M8201-0-0	REV.	D
SCALE	2:1	SHEET	8	OF	8	DIST.	

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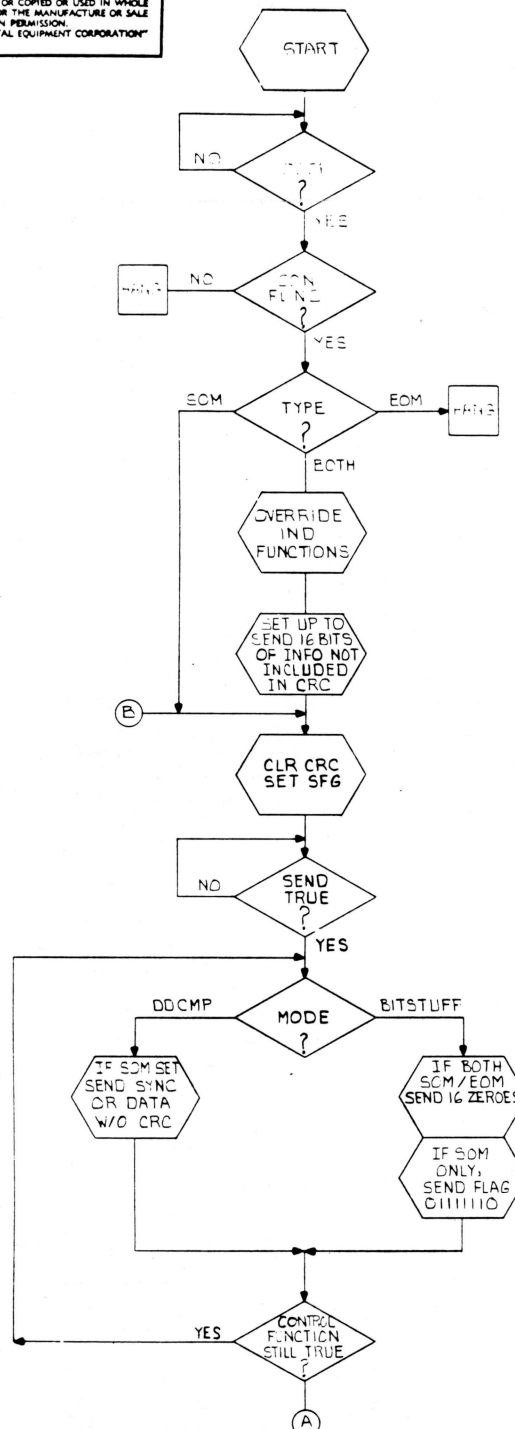
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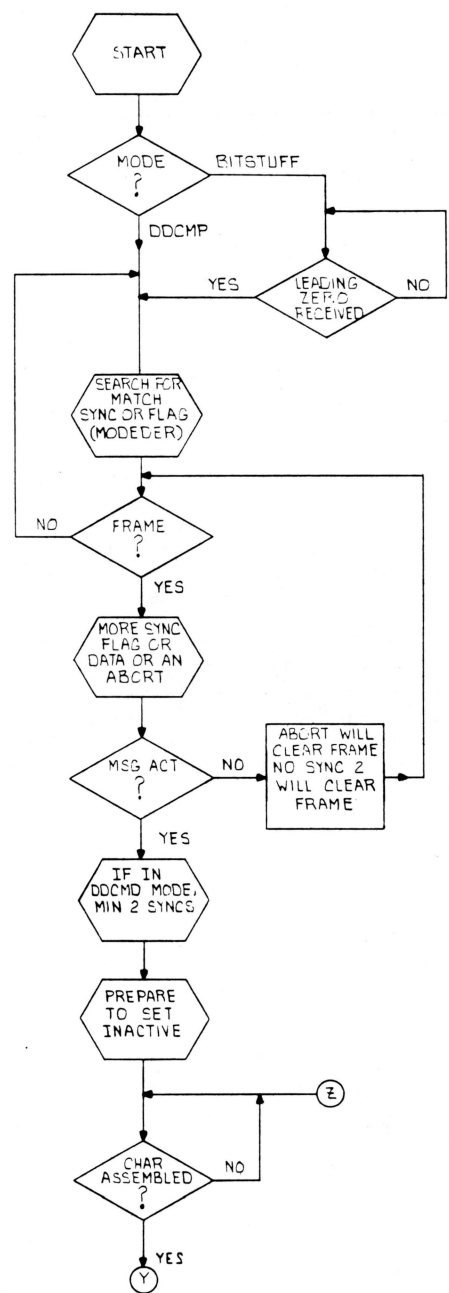
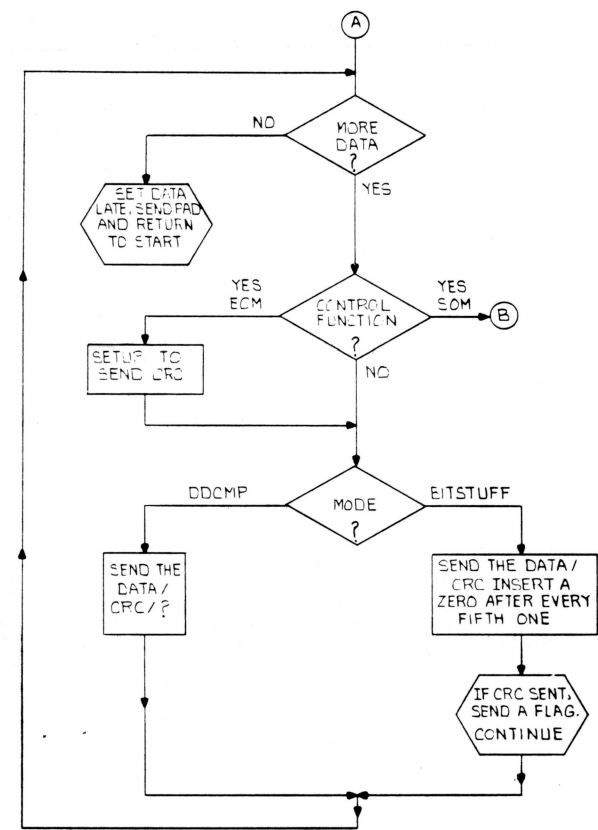
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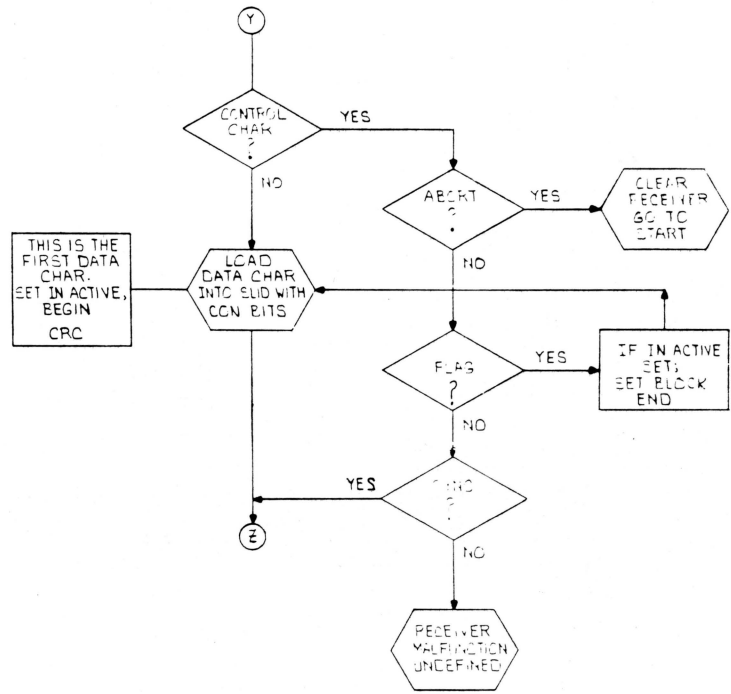
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TRANSMITTER



RECEIVER



(DEVICE FLOW)

DRP: [Signature]	1-12-76	FIRST USED ON	digital
CHK: [Signature]	2-22-76	TITLE	IPL SLU LOW
ENG: [Signature]	2-22-76	SIZE	DCS
PROJ ENG: [Signature]	2-22-76	NUMBER	M8201-0-1
PROD R. [Signature]	2-27-76	DIST	
NEXT HIGHER ASSY.			
SCALE			
SHEET	OF		

REV. NO.	REV	DATE	BY
1	B. SMITH	17 MAR 76	
2	P. ALOISI	22 SEP 77	
3	P. ALOISI	7 MAR 78	
4	P. ALOISI	27 APR 78	

DEC FORM NO. 102-B

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Table with 16 columns (3-16) and rows of signal names (e.g., D3 CROM 0 L, D3 CROM 1 L, etc.) and their corresponding bit patterns.

Table with 16 columns (3-16) and rows of signal names (e.g., D5 LW IBUS 0 H, D5 LW IBUS 1 H, etc.) and their corresponding bit patterns.

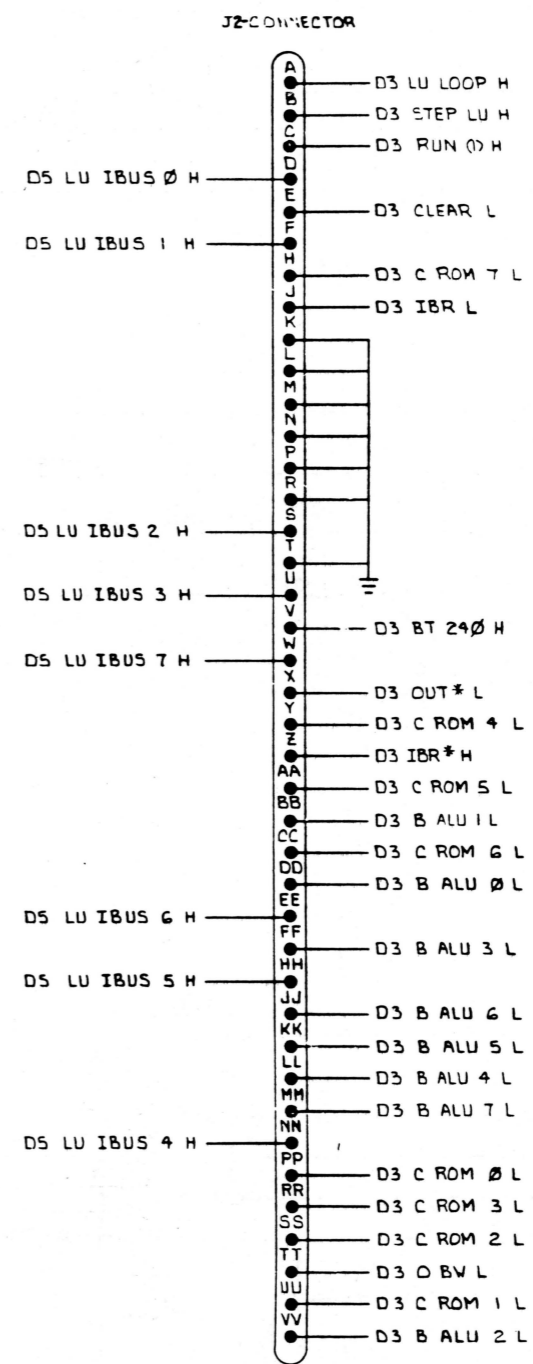
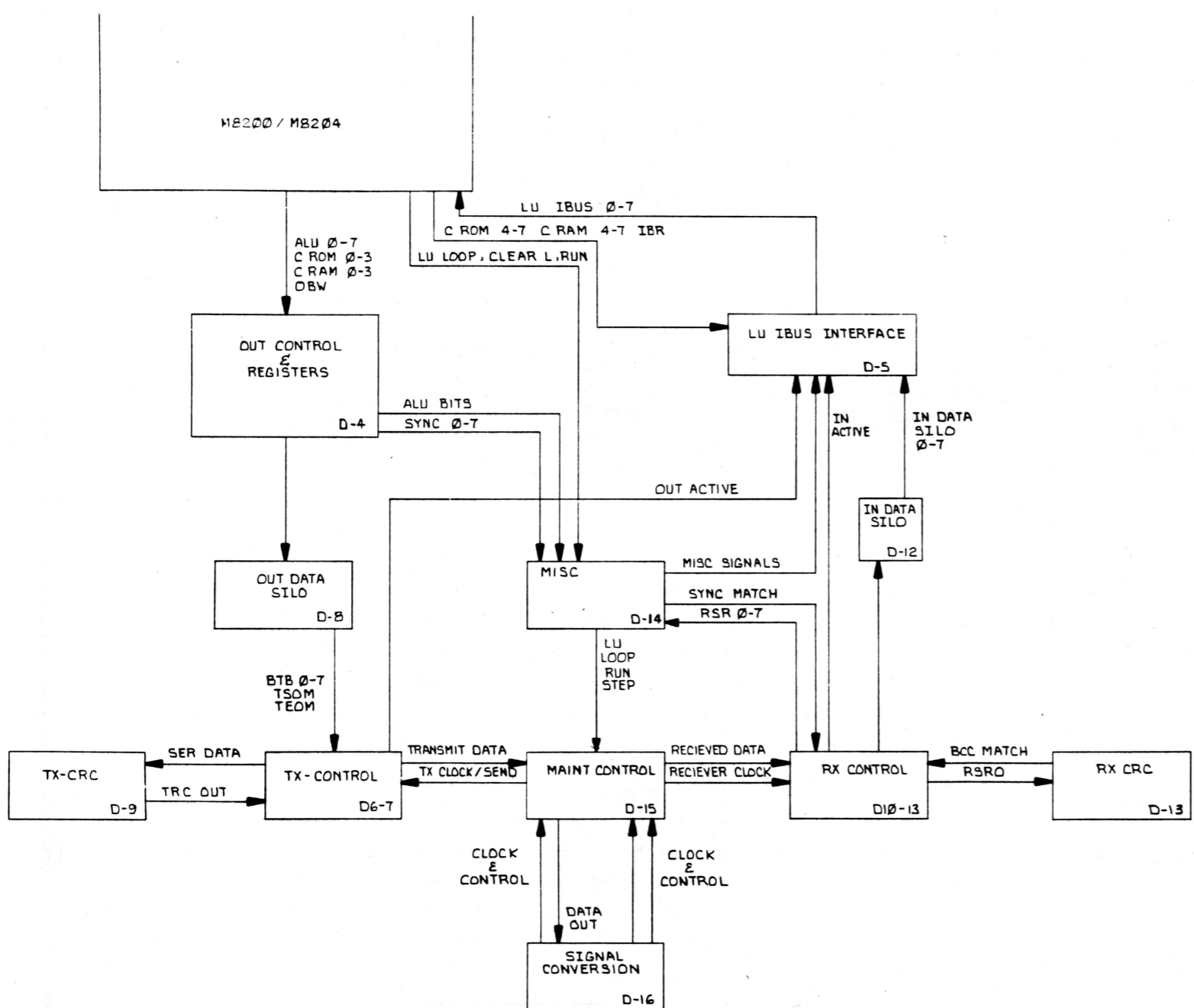
Table with 16 columns (3-16) and rows of signal names (e.g., D10 RCOD H, D11 RSR 0 H, etc.) and their corresponding bit patterns.

Table with 16 columns (3-16) and rows of signal names (e.g., D14 REG 15-8 H, D14 R/W H, etc.) and their corresponding bit patterns.

REVISIONS table with columns for CHK, CHANGE NO, and REV.

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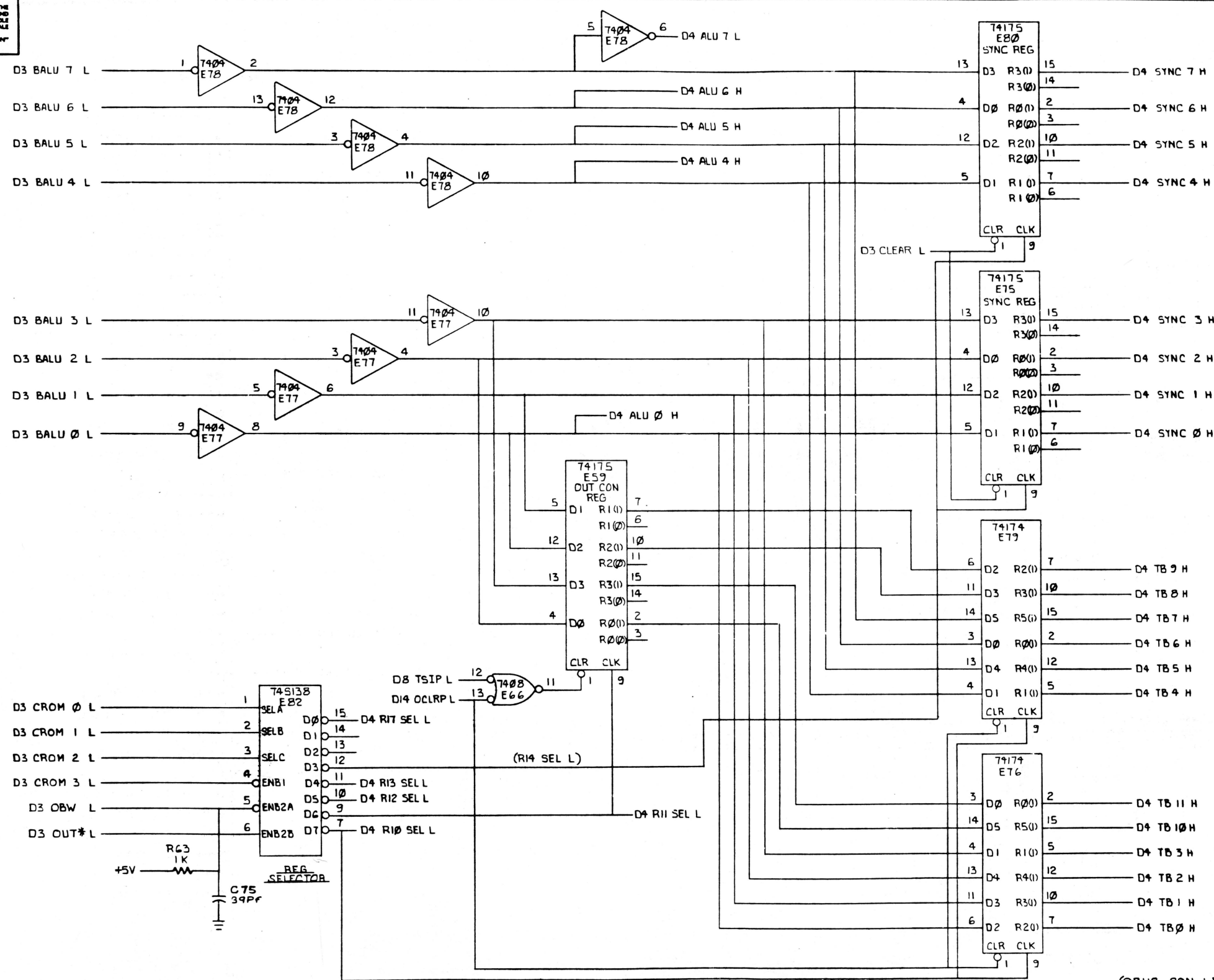
1-0-1028W 520 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: IPL SLU LOW  
 SCALE: ++  
 SHEET: 3 OF 16  
 SIZE CODE: DCS  
 NUMBER: M8201-0-1  
 REV.: E

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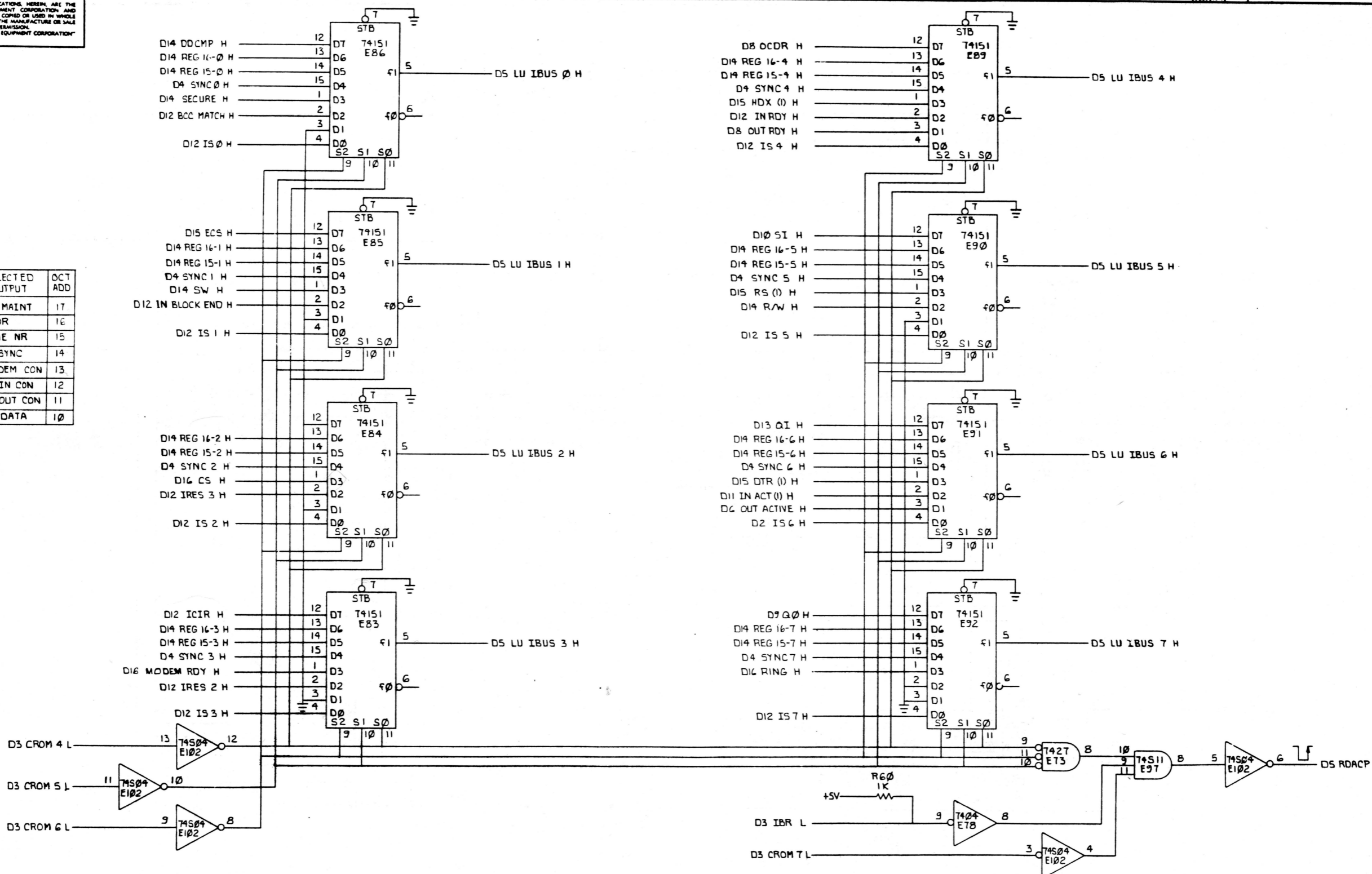
REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. DED 138

TITLE	IPL SLU LOW	SIZE CODE	(D4) DCS	NUMBER	M8201-0-1	REV.	E
SCALE	++	SHEET	4	OF	16	DIST.	

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C	R	O	M	SELECTED	OCT
T	6	5	4	OUTPUT	ADD
L	L	L	L	LU MAINT	17
L	L	L	H	ADDR	16
L	L	H	L	LINE NR	15
L	L	H	H	LU SYNC	14
L	H	L	L	MODEM CON	13
L	H	L	H	LU IN CON	12
L	H	H	L	LU OUT CON	11
L	H	H	H	IN DATA	10

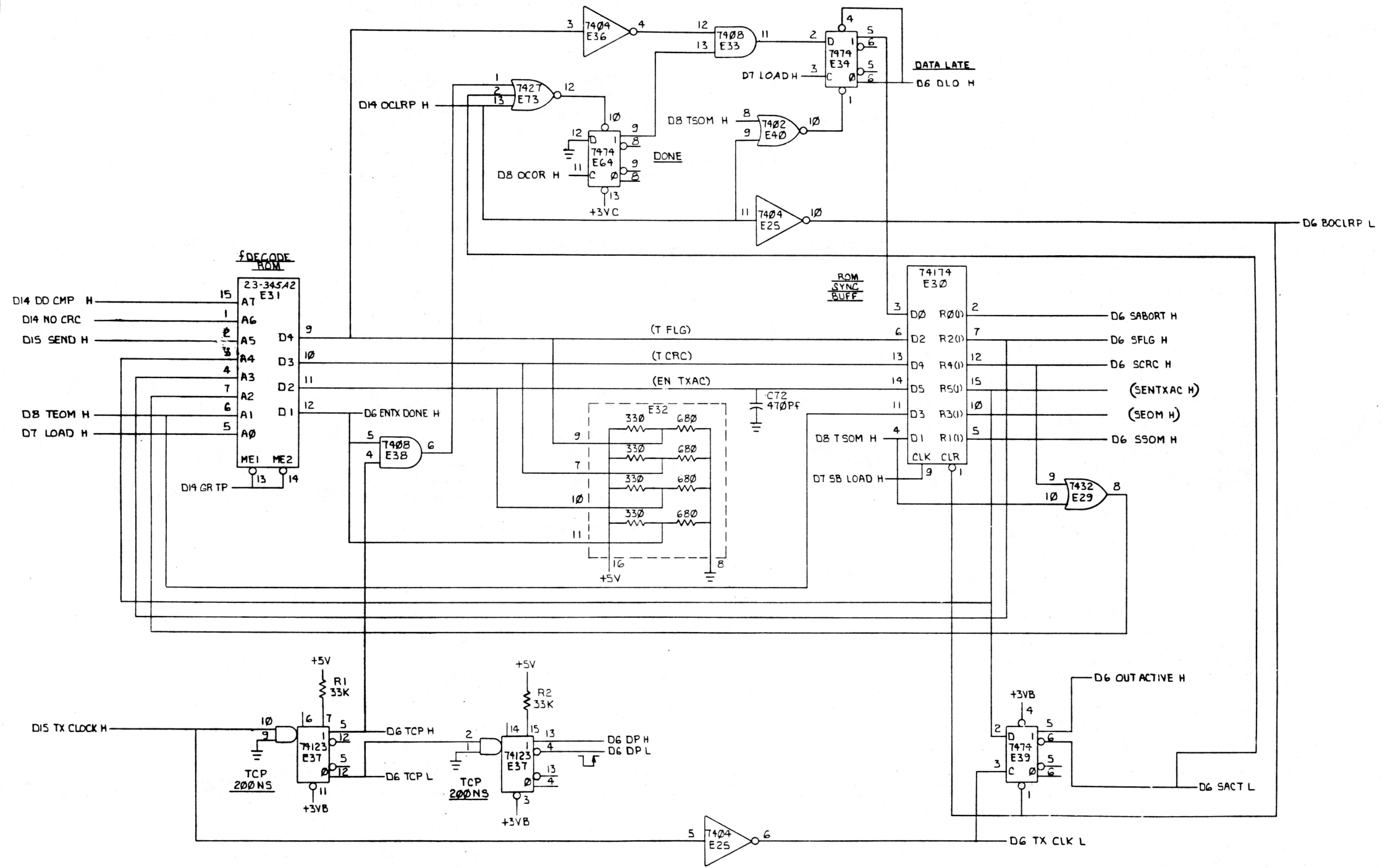


(IBUS CON + MUX)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU LOW	SIZE CODE	(05) DCS	NUMBER	M8201-0-1	REV.	E
SCALE	1/1	SHEET	5	OF	6	LIST.	

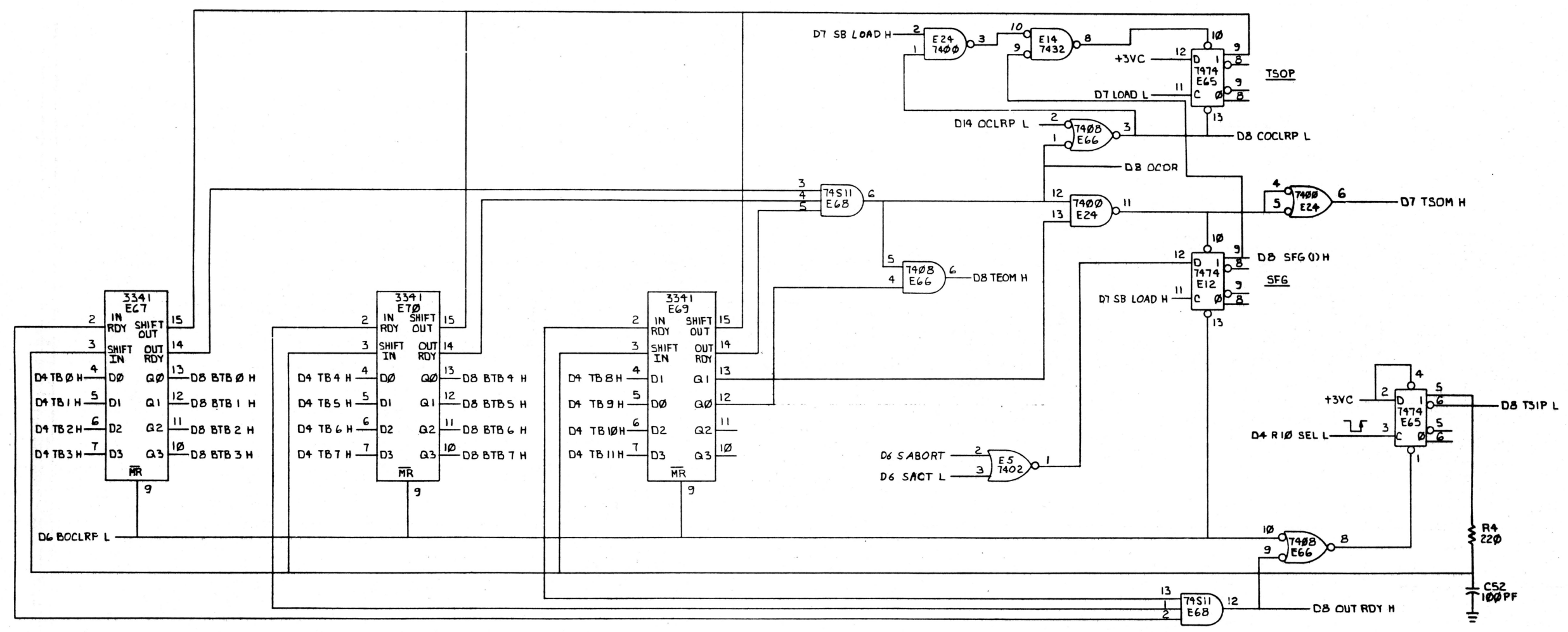
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REVISIONS		
CHK	CHANGE NO.	REV



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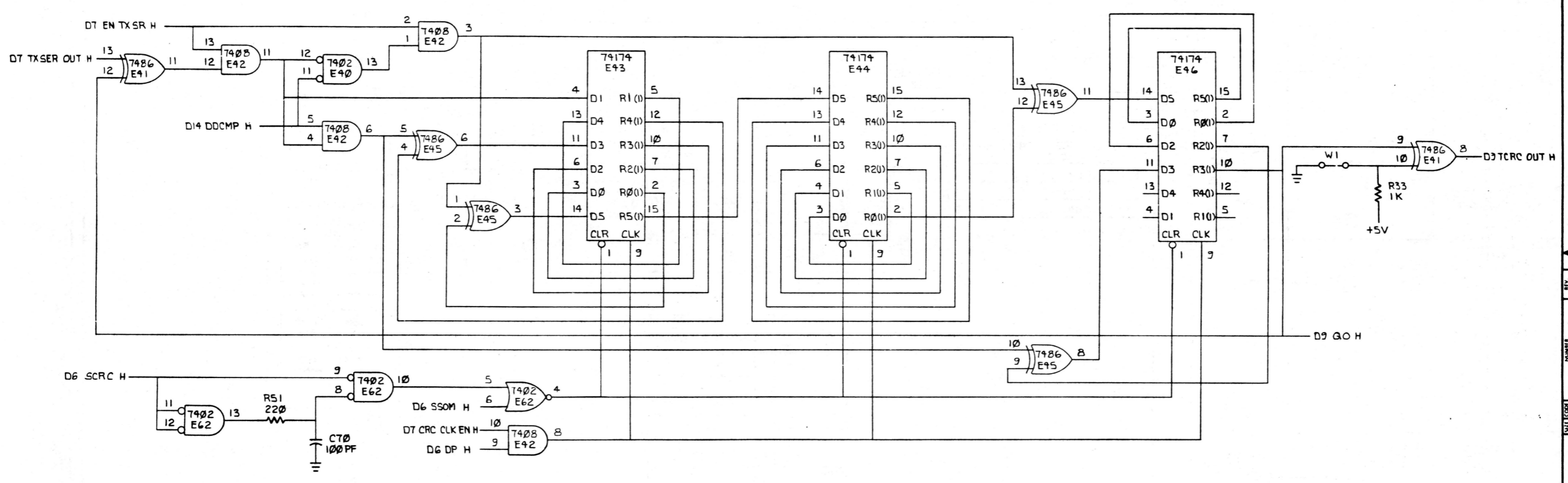


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		IPL SLU LOW (DB)		SIZE CODE	NUMBER	REV.
SCALE		SHEET 8 OF 16		DCS	MB201-0-1	E

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DCS M8201-0-1  
E



REVISIONS		
CHK	CHANGE NO.	REV.

DIG FORM NO. DRG 138

TITLE		SIZE	CODE	NUMBER	REV.
IPL SLU LOW		(09)	DCS	M8201-0-1	E
SCALE	++	SHEET	9	OF	16
DIST.					

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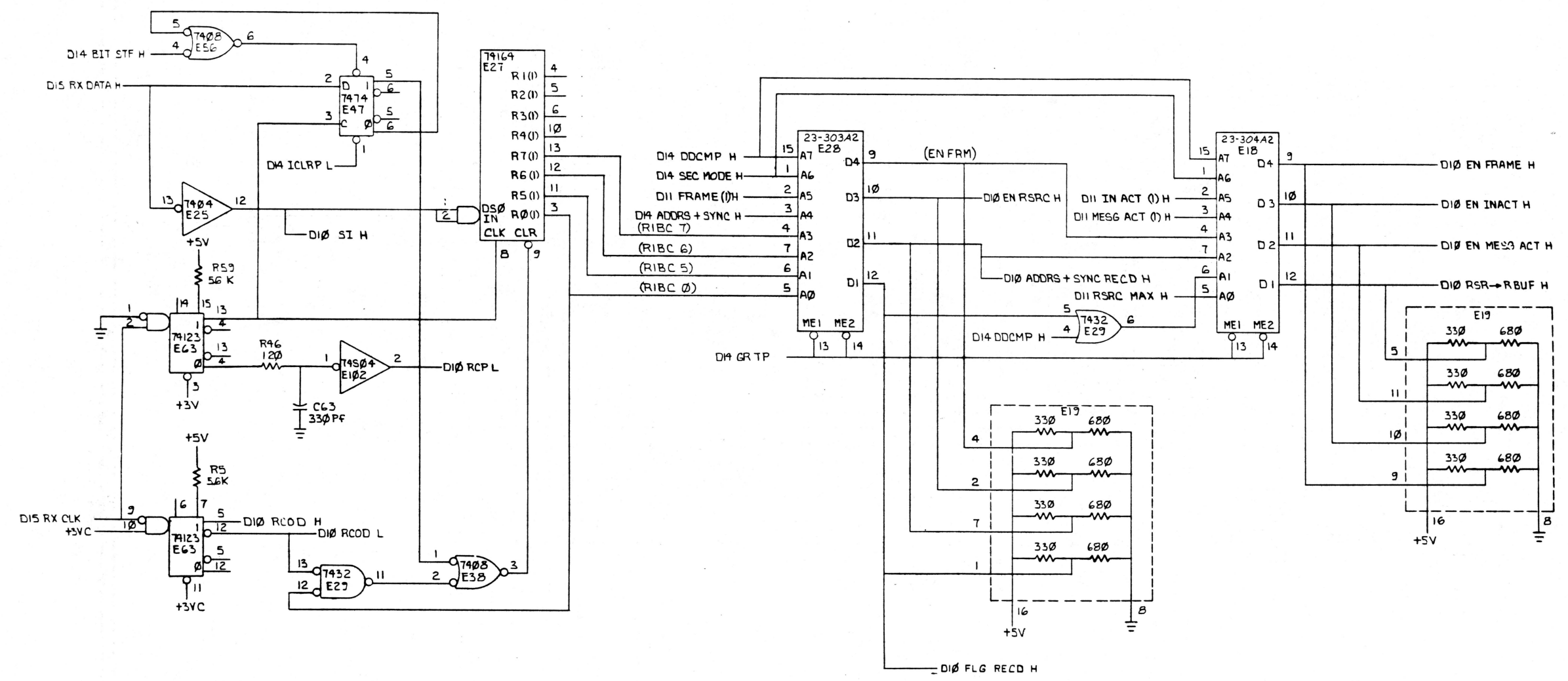
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(TX CRC CONTROL)

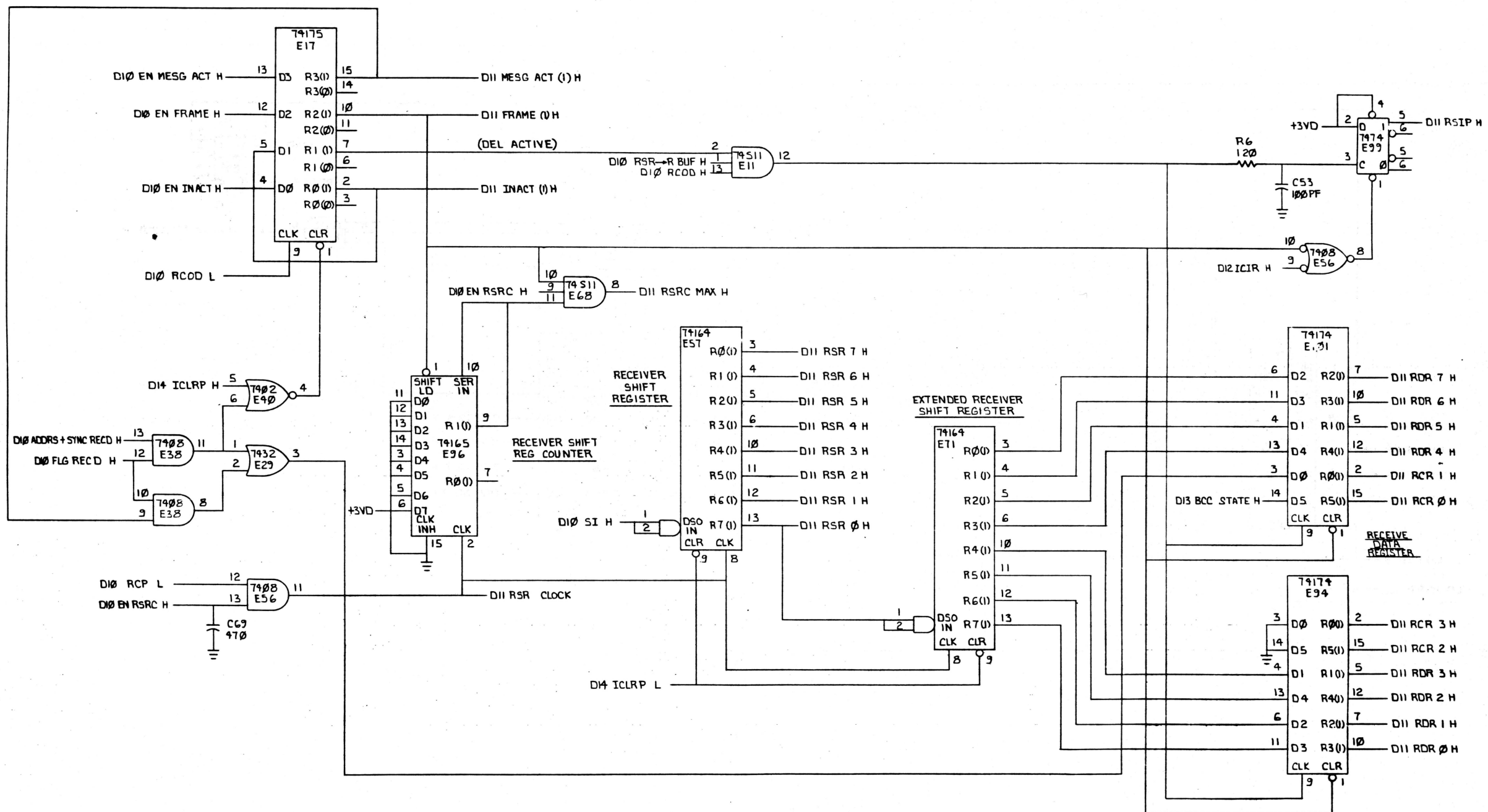
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE IPL SLU LOW (D10)		SIZE CODE DCS	NUMBER M8201-0-1	REV. E
SCALE --	SHEET 10	OF 16	CIST.	

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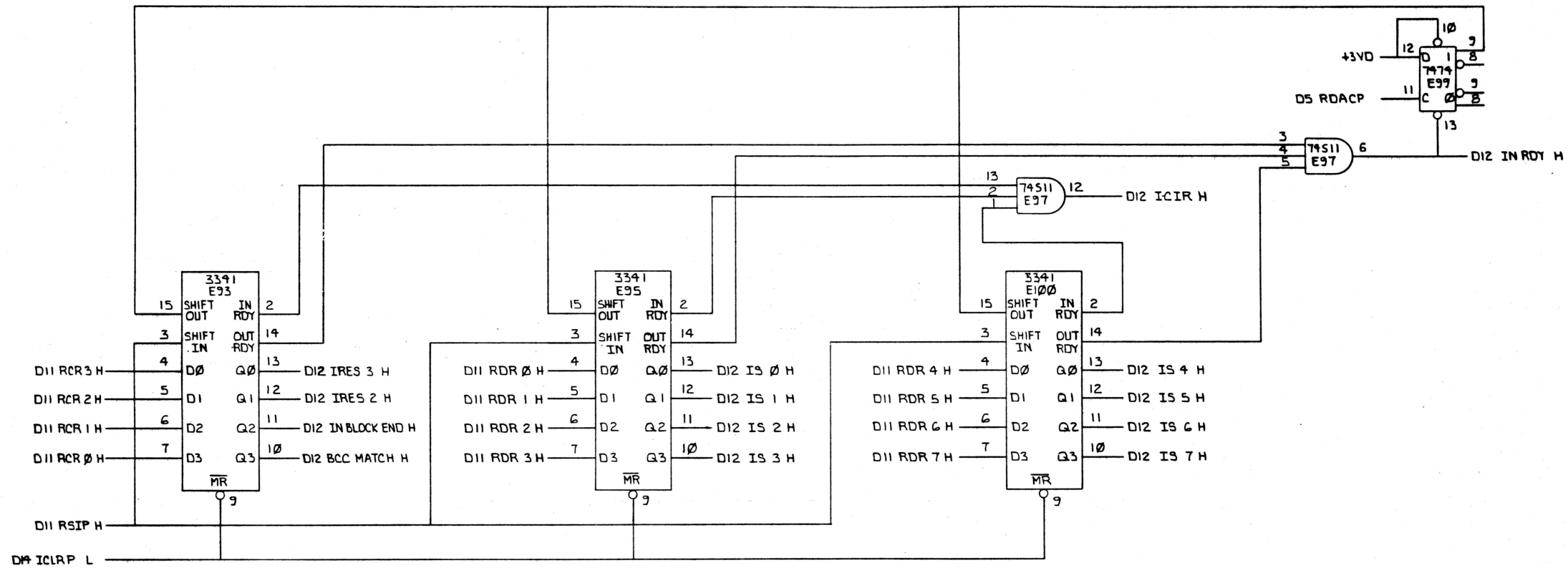


REVISIONS		
CHK	CHANGE NO.	REV.

(RX CONTROL II)

TITLE	IPL SLU LOW (011)	SIZE CODE	DCS	NUMBER	M8201-0-1	REV.	E
SCALE	1:1	SHEET	OF	6	DIST.		

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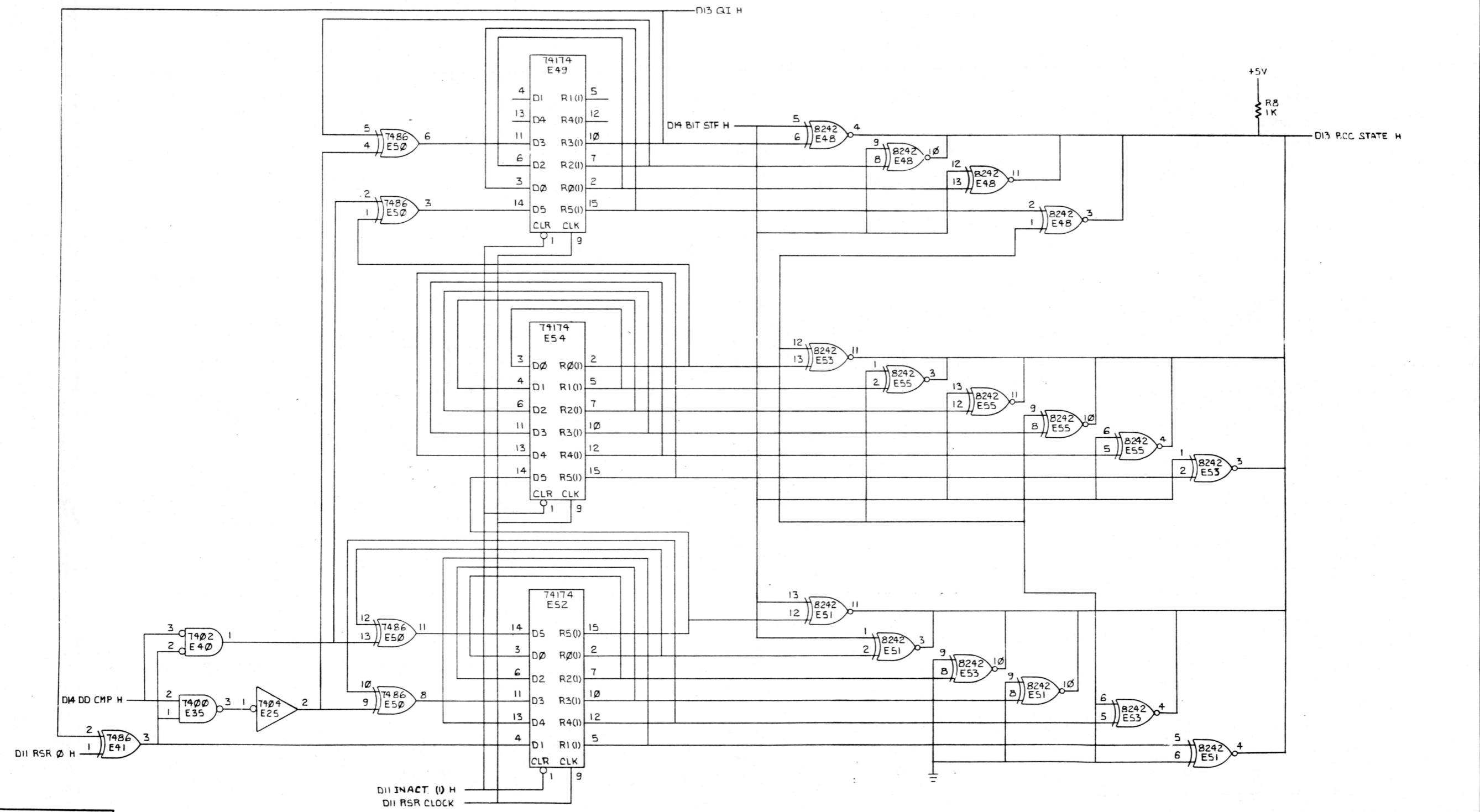


(IN DATA SILO)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU LOW (012)	SIZE CODE	DCS	NUMBER	M8201-0-1	REV.	E
SCALE	1:1	SHEET	12	OF	16	DIST.	

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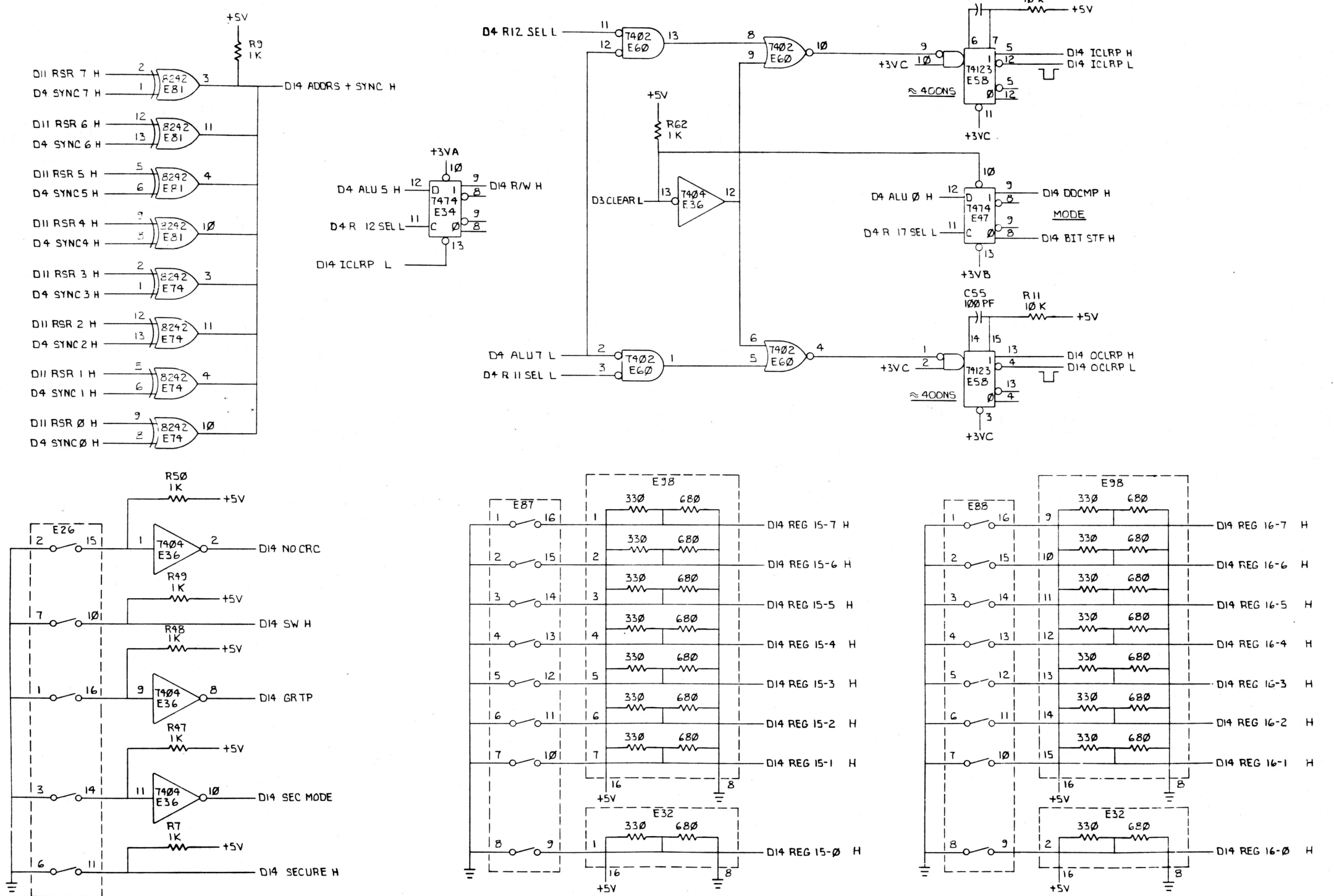


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		IPL SLU LOW (C13)		SIZE CODE	NUMBER		REV.
SCALE		SHEET 13 OF 16		DCS	M8201-0-1		E

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DCS M8201-0-1-1

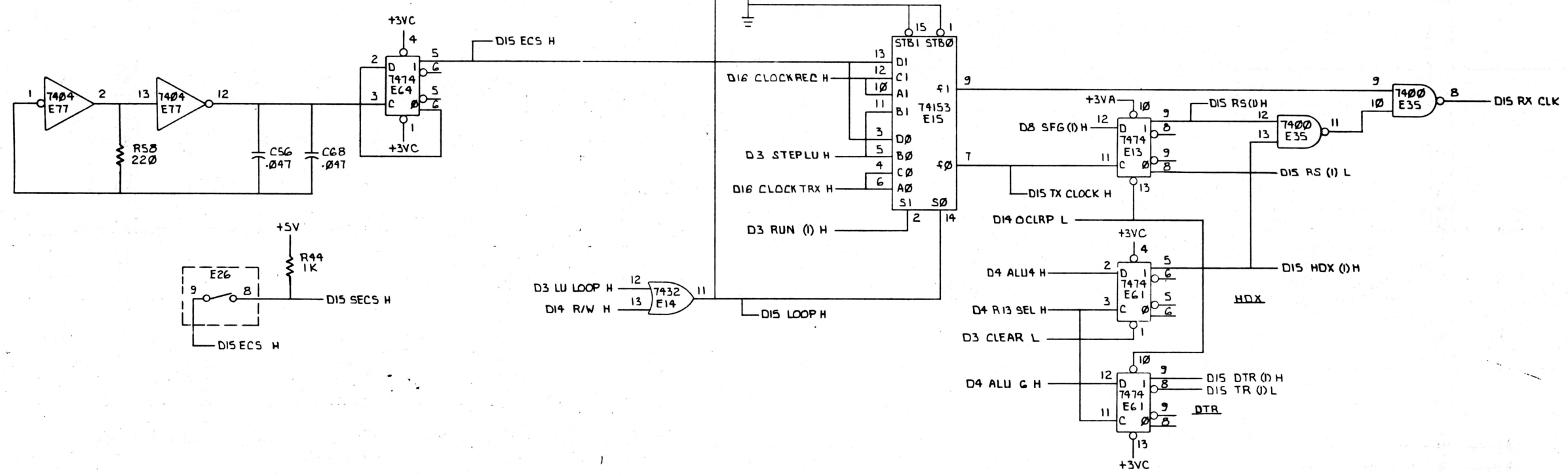


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU LOW	SIZE CODE	(014)	NUMBER	DCS M8201-0-1	REV.	E
SCALE		SHEET	4	OF	16	DIST.	

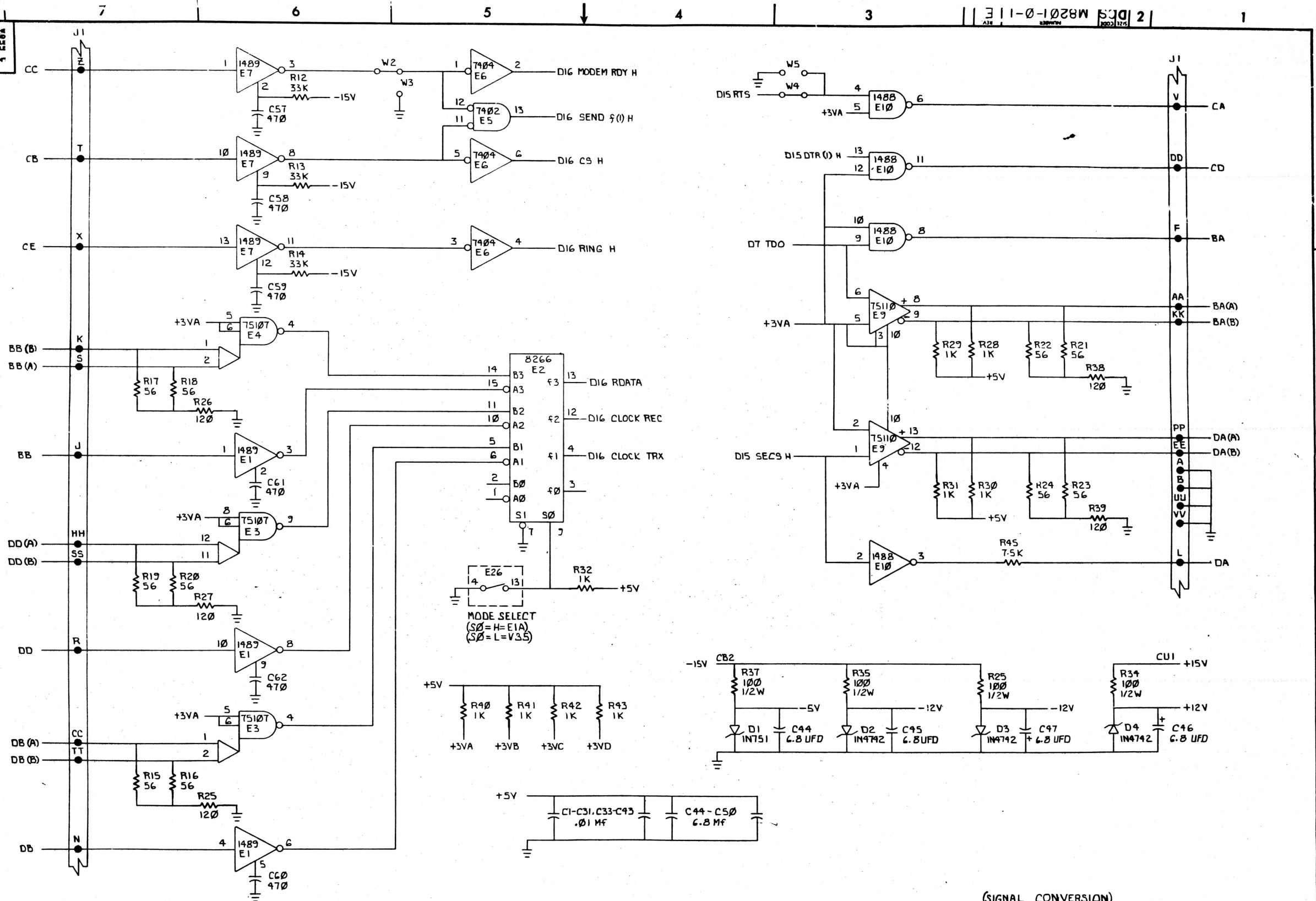
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D7 TDLS	L=1	13	B3	f3	12	L=1	DIS RX DATA
D16 RDATA	L=1	14	A3	f3	9	L=ON	DIS RTS
+3VA		10	B2	f2	7	H=ON	DIS SEND H
D15 RS (I) L	L=ON	11	A2	f2	4	L=ON	DIS DTR
D15 RS (I) H	H=ON	6	B1	f1			
D16 SEND f(I) H	H=ON	5	A1	f1			
+3VA		3	B0	f0			
D15 TR (I) L	L=ON	2	A0	f0			



REVISIONS		
CHK	CHANGE NO.	REV.

NOTATION: HEREIN ARE THE EQUIPMENT CORPORATION AND THE BASIS FOR THE MANUFACTURE OR SALE WITHOUT WRITTEN PERMISSION. © 1975 DIGITAL EQUIPMENT CORPORATION



(SIGNAL CONVERSION)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU LOW	SIZE CODE	(016)	NUMBER	DCS M8201-0-1	REV.	E
SCALE	1/1	SHEET	6	OF	16	DIST.	

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1		5011711-00	M8201	1	
2	2		1000016-00	100.0 MMF 100V 5%200PPM DM15S (10-00	5	C52-C55,C70
3	3		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	11	C57-C62,C64,C65,C69,C72,C73
4	4	SEE NOTE 64	1001610-00	.01 MFD 50V Z5U 309CER/8000PF MIN	43	C1-C31,C33-C43,C71
5	5		1005306-00	6.8MFD 35V 10% 150D E.TA (10-00	7	C44-C50
6	6		1010978-32	.047 MFD 50V 10% 2C067CER. #	2	C56,C68
7	7		1109502-00	1N 4742 VZ= 12.0 10% 1W Y	3	D2-D4
8	8		1110994-00	1N 751A VZ= 5.1 5% .40W P	1	D1
9	9		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	9	E12,E13,E34,E39,E47,E61,E64, CONT E65,E99
10	10		1905575-00	7400 NAND GATE-QUAD 2IN	2	E35,E24
11	11		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	4	E5,E40,E60,E62
12	12		1909686-00	7404 INVERTER GATE-HEX 1IN	5	E6,E25,E36,E72,E78
13	13		1909712-00	DEC 8242 COMPARATOR-4BIT N,OPN COLL.	6	E48,E51,E53,E55,E74,E81
14	14		1909934-00	8266 MUX 1 OF 2 (QUAD)	1	E2
15	15		1909936-00	74151 MUX 1 OF 8	8	E83-E86,E89-E92
16	16		1909937-00	74153 MUX 1 OF 4 (DUAL)	1	E15
17	17		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPUT	3	E41,E45,E50
18	18		1910041-00	DEC 74164 SHIFT REG.,8BIT SERIAL IN/OUT	4	E22,E27,E57,E71
19	19		1910155-00	DEC 7408 AND GATE,POS,QUAD 2IN 14	5	E33,E38,E42,E56,E66
20	20		1910268-00	DEC 75107R RECEIVER,LINE,DUAL,25 MV,MASS	2	E3,E4
21	21		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EIA RS-232C	1	E10
22	22		1910323-00	DEC 1489L RECEIVER,LINE,QUAD,EIA RS-232	2	E1,E7
23	23		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	3	E37,E58,E63
24	24		1910537-00	74S11 AND GATE-TRIPLE 3INPUT	3	E11,E68,E97
25	25		1910650-00	74161 COUNTER,SYNCHR. UP	1	E23
26	26		1910651-00	DEC 74175 FF-D QUAD	4	E17,E59,E75,E80
27	27		1910652-00	74174 FF-D HEX	11	E30,E43,E44,E46,E49,E52,E54, CONT E76,E79,E94,E101
28	28		1910655-00	74157 MUX 1 OF 2 (QUAD)	1	E16

REVISION HISTORY			VARIATIONS FOR THIS ASSY.			DIGITAL EQUIPMENT CORPORATION			
CHK	ECD NO	REV	FIRST USED ON:			MAYNARD, MASSACHUSETTS			
R.R	00004	E	00	MADE BY:	R. KOPFENAL	DATE:	09-MAR-78	TITLE	PARTS LIST
				CHECKED:	KENT GLEEZEN	DATE:	09-MAR-78	IPL	SLU LOW
				DSN.ENG.:	R.M.SMITH	DATE:	09-MAR-78	SIZE	CODE
				PROD.:	R. WALL	DATE:	09-MAR-78	DOCUMENT NUMBER	REV
				RESP.ENG.:	R.M. SMITH	DATE:	09-MAR-78	K	PL
						ASSY.NO.:	D-UA-M8201-0-0	M8201-0-0	E
									EDIT#
									4

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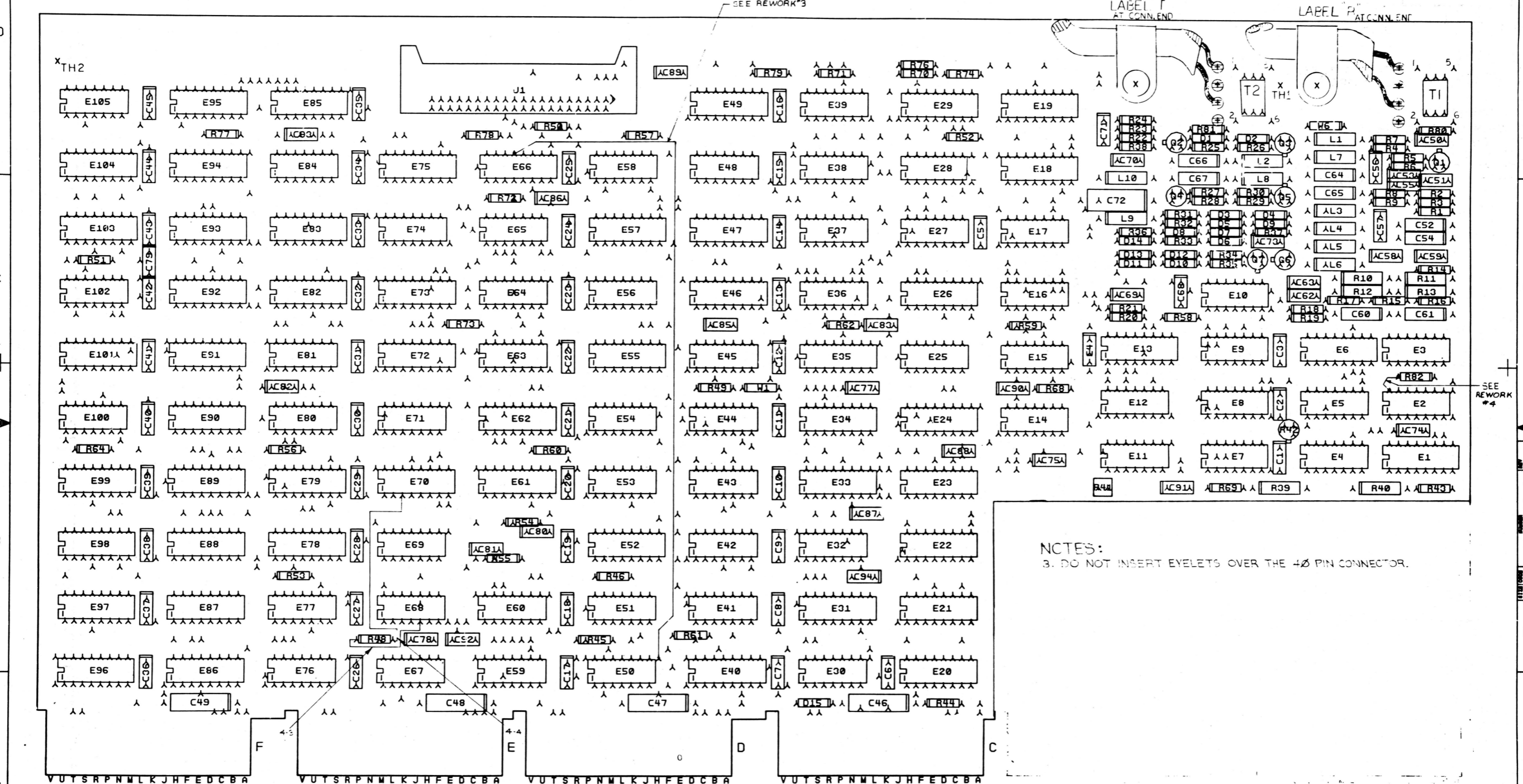
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
29	29		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E73
30	30		1911521-00	7432 OR GATE-QUAD 2IN, POSITIVE	2	E14,E29
31	31		1911675-00	74S138 DECODER-THREE INPUT	1	E82
32	32		1910534-00	74S04 INVERTER GATE-HEX 1IN	1	E102
33	33		1912346-00	74165 SHIFT REG.,8BIT PARALLEL JN/OU	2	E72,E96
34	34		1912664-00	75110 DRIVER,LINE,DUAL,12 MA	1	E9
35	35		2111188-00	3341 64X4 FIFO MEMORY	6	E67,E69,E70,E93,E95,E100
36	36		1300229-00	100 1/4W 5% CC (13-00	1	R36
37	37		1300228-00	100 1/2W 5% CC (13-00	3	R34,R35,R37
38	38		1300271-00	220 1/4W 5% CC (13-00	5	R4,R51,RR52,R58,R61
39	39		1300365-00	1 K 1/4W 5% CC (13-00	21	R7-R9,R28-R33,R40-R44,R47-R50,
					CONT	R60,R62,R63
40	40		1300479-00	10 K 1/4W 5% CC (13-00	2	R10,R11
41	41		1300510-00	33 K 1/4W 5% CC	5	R1,R2,R12-R14
42	42		1300247-00	120 1/4W 5% CC (13-00	7	R25-R27,R38,R39,R6,R46
43	43		1302602-00	56 1/4W 5% CC (13-00	10	R15-R24
44	44		1311003-02	R NETWORK 14-330 14-680	3	E19,E32,E98
45	45		1301422-00	7.5 K 1/4W 5% CC (13-00	1	R45
46	46		1000023-00	330.0 MMF 100V 5%200PPM DM15S (10-00	1	C63
47	47		1301874-00	5.6 K 1/4W 5% CC (13-00	1	R5
48	48		1302395-00	56 K 1/4W 5% CC (13-00	1	R59
49	49		1000010-00	39.0 MMF 100V 5%200PPM DM15S (10-00	1	C75
50	50		23345A2-00	A2-02,A2-03,A2-04	1	E31
51	51		23220A2-00	A2-02,A2-03,A2-04	1	E21
52	52		23375A2-00	A2-02,A2-03,A2-04	1	E20
53	53		23303A2-00	A2-02,A2-03,A2-04	1	E28
54	54		23304A2-00	A2-02,A2-03,A2-04	1	E18
55	55		1002424-00	1200.0 MMF 100V 5%200PPM DM15S (10-00	1	C66
56	56		9107256-10	TUBING,THIN WALL,.027ID UL A/R		
57	57		1000026-00	680.0 MMF 100V 5%200PPM DM15S (10-00	2	C74,C76
58	58		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	3	W1,W2,W4
59	59		1209941-02	HEADER 100 40POS RT ANGLE \$	2	J1,J2
60	60		1210711-02	HANDLE ASSY,MOD DOEHLER-JARVIS	1	
61	61		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00 A/R		
62	62		9006732-00	EYELET, ROLLED FLANGE, .121 OD X .219 LG	12	
63	63		1211164-04	SW,DIP 1P 1A 8POS	3	E26,E87,E88

64 NOTE: \*\*ANY VARIATION IS ACCEPTABLE

TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION	IPL SLU LOW	K	PL	M8201-0-0	1E
MAYNARD, MASSACHUSETTS					

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REFER TO NOTE 1 COMPONENT SIDE VIEW



NOTES:  
3. DO NOT INSERT EYELETS OVER THE 40 PIN CONNECTOR.

NOTES:  
1. PIN 9C-C2356-CC LETTER "T" IS APPLIED TO CABLE ATTACHED TO T2. LETTER "R" IS APPLIED TO CABLE ATTACHED TO T1. AT THE CONNECTOR END. (11454 ASSY.) IF ALPHABETICAL LABELS ARE NOT AVAILABLE, MASKING TAPE WITH THE LETTER "T" OR "R" PRINTED ON IT IS AN ACCEPTABLE SUBSTITUTE.  
2. W6 & R81 ARE OPTIONAL COMPONENTS.

CHANGE NO	REV	DATE	BY	CHK'D	DESCRIPTION
M8202-00002	D	12/14/70	P. SMITH		
	C	12/14/70	P. SMITH		
	B	12/14/70	P. SMITH		
	A	12/14/70	P. SMITH		

SYMBOL	HOLE DATA										
	+	-	X	+	Z	M	A	□	◇	*	
FIN HOLE SIZE	.067	.038	.154								
PLATED	X	X	X								
NON PLATED											
QTY.			82675	4							
○-OFF GRD HLE											
DRILL SIZE											

ETCH REV. D
P.C. DESIGN DATA BASE REV. D-P2

SIGNATURES	DATE
DRN. H. [Signature]	12/14/70
CHK'D. [Signature]	12/14/70
ENG. [Signature]	12/14/70
PROJ. ENG. [Signature]	12/14/70
PROD. [Signature]	12/14/70

TITLE	digital
TITLE	IPL SLU HI
SCALE 2:1	SIZE CODE
SHT. 1 OF 1	NUMBER
NEXT HIGHER ASSY. B-00-M8202-0	REV

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REWORK INSTRUCTIONS

WIRE ADDS SIDE 1:

- 3 FROM E66-13 TO F/T ADJACENT TO E50-8
- 4 FROM E2-14 TO R82 (END TOWARD E5)

ECO #4

ETCH CUTS SIDE 1:

- 4-1 BETWEEN E68-5 AND C78
- 4-2 BETWEEN E70-3 AND R48

WIRE ADDS SIDE 1:

- 4-3 FROM E68-5 TO R48-1 (END AWAY FROM C78)
- 4-4 FROM E70-3 TO R48-2 (END TOWARD C78)

REV. H 0-0-2028W D 2 1

D  
C  
B  
A

D  
C  
B  
A

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: IPL SLU HI  
 SIZE CODE: D UA  
 NUMBER: M8202-C-0  
 REV. 1  
 SCALE: \_\_\_\_\_ SHEET 2 OF 4  
 DIST. \_\_\_\_\_

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CS\*ABCDEFGHIJKLMNPRS

E105

E75

J1

E58

E49

E39

E29

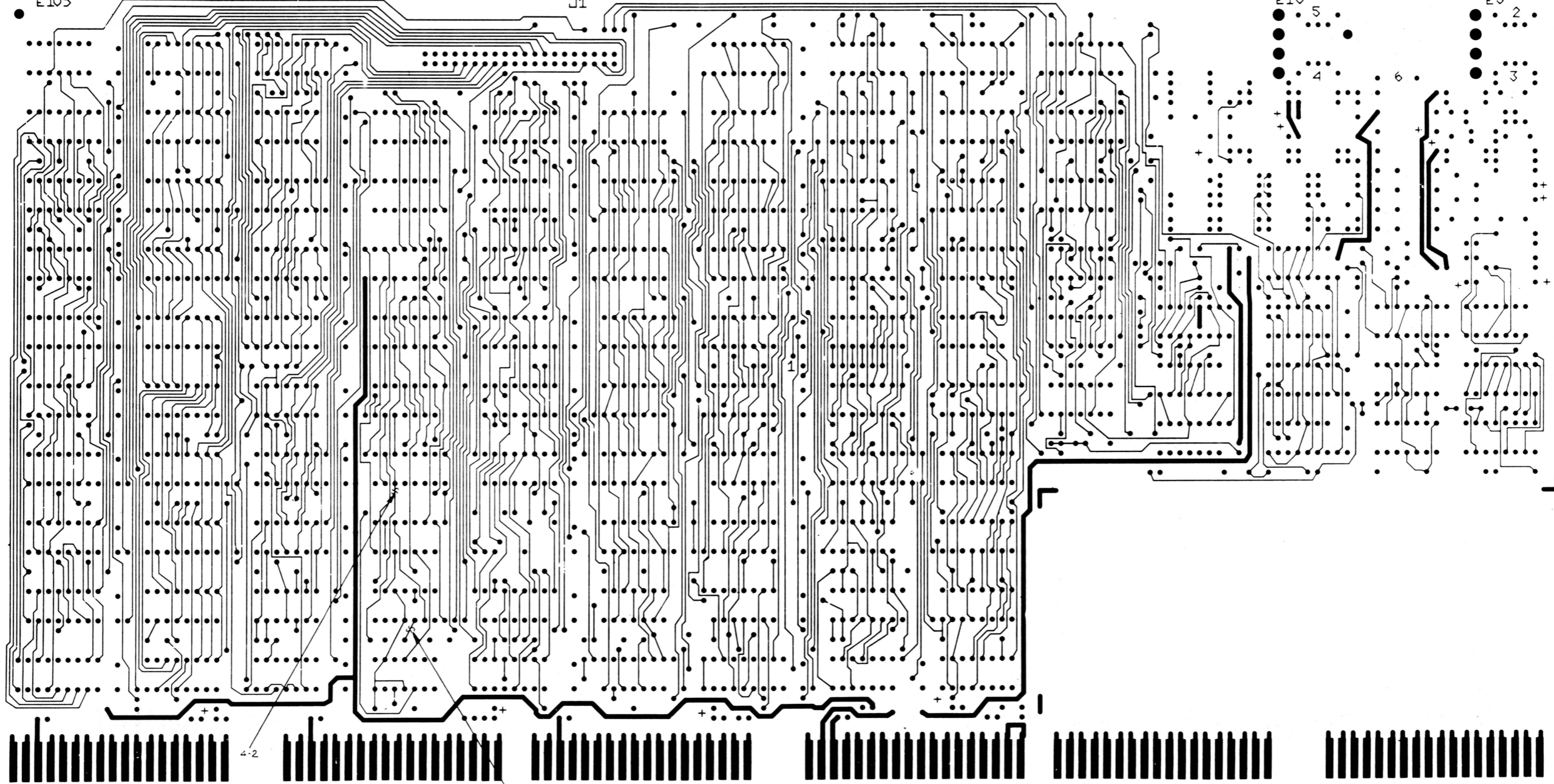
E19

SIDE 1

digital

E10

E3



REVISIONS		
CHK	CHANGE NO	REV

TITLE IPL SLU HI		D UAM8202-0-0		H
DATE	SHEET 7 OF 4	REV		

8

7

6

5

4

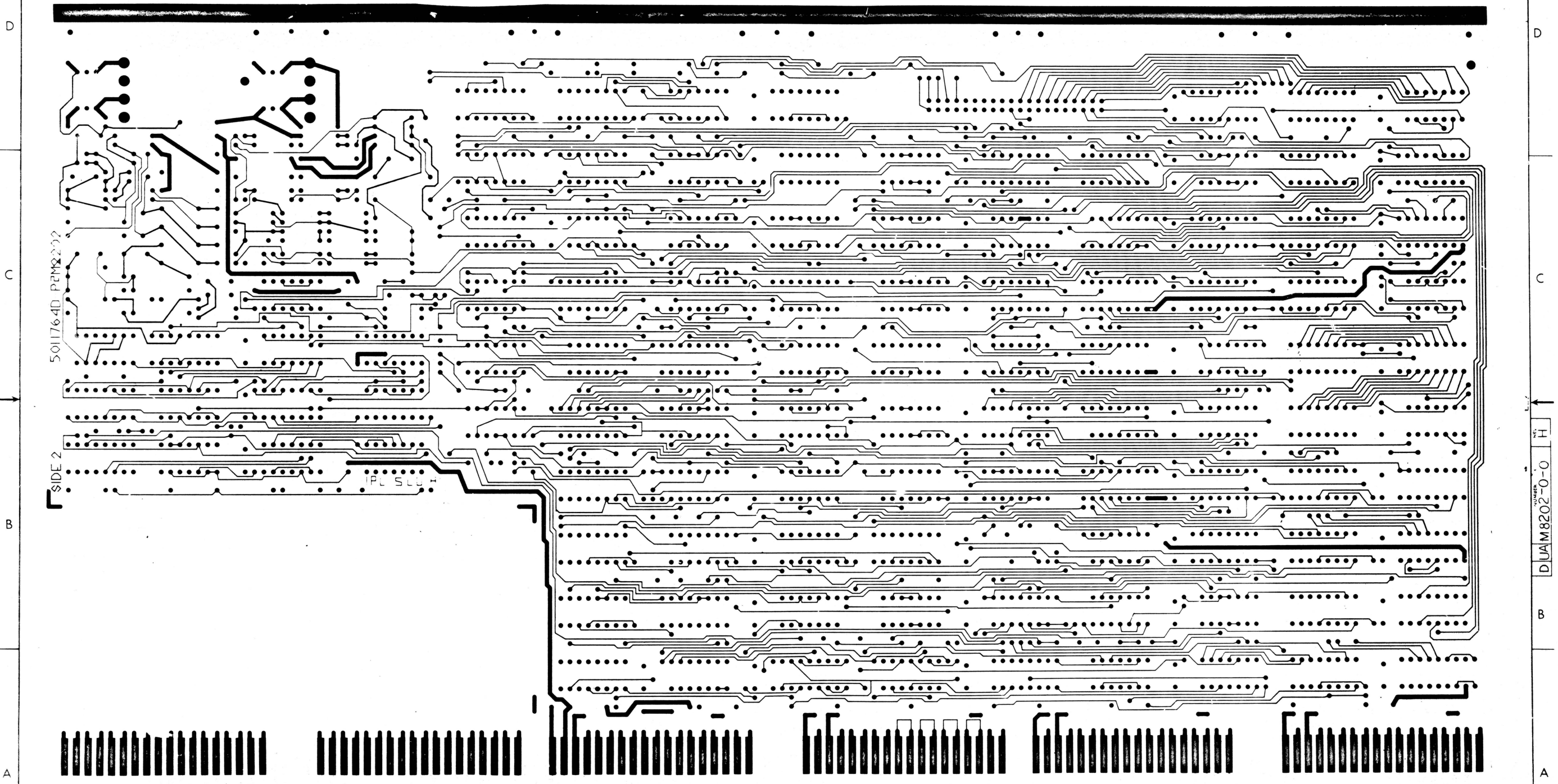
3

2

1

D  
C  
B  
A  
D UAM8202-0-0 | H |

PROPERTY OF THE AIR FORCE  
1976



5011764D P2M2292

SIDE 2

IPL SLU HI

D J A M 8 2 0 2 - 0 - 0

REVISIONS		
CHK	CHANGE NO	REV

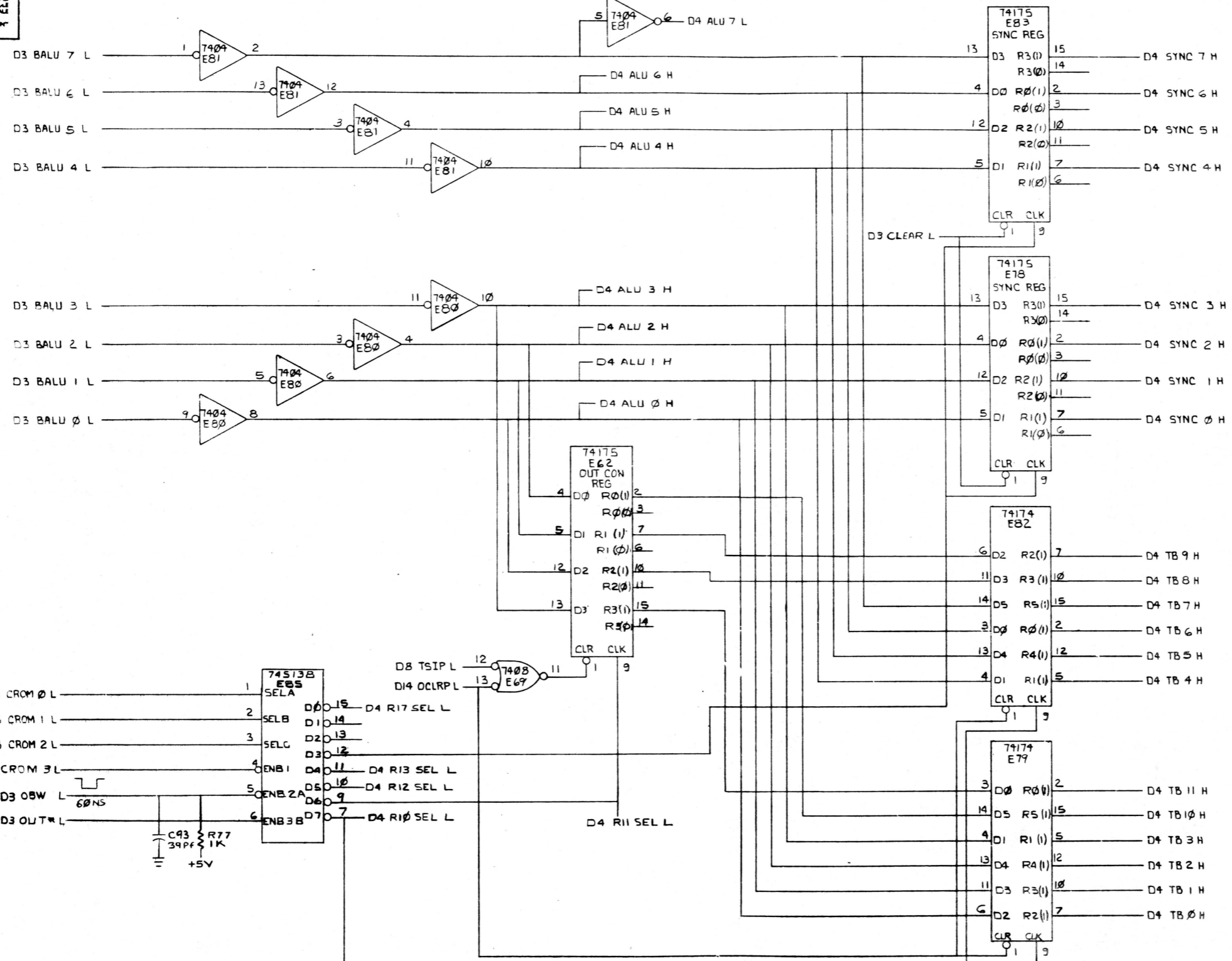
TITLE	SIZE CODE	NUMBER	REV
IPL SLU HI	D J A	M 8 2 0 2 - 0 - 0	H
SCALE	SHEET 3 OF 4	C-ST	







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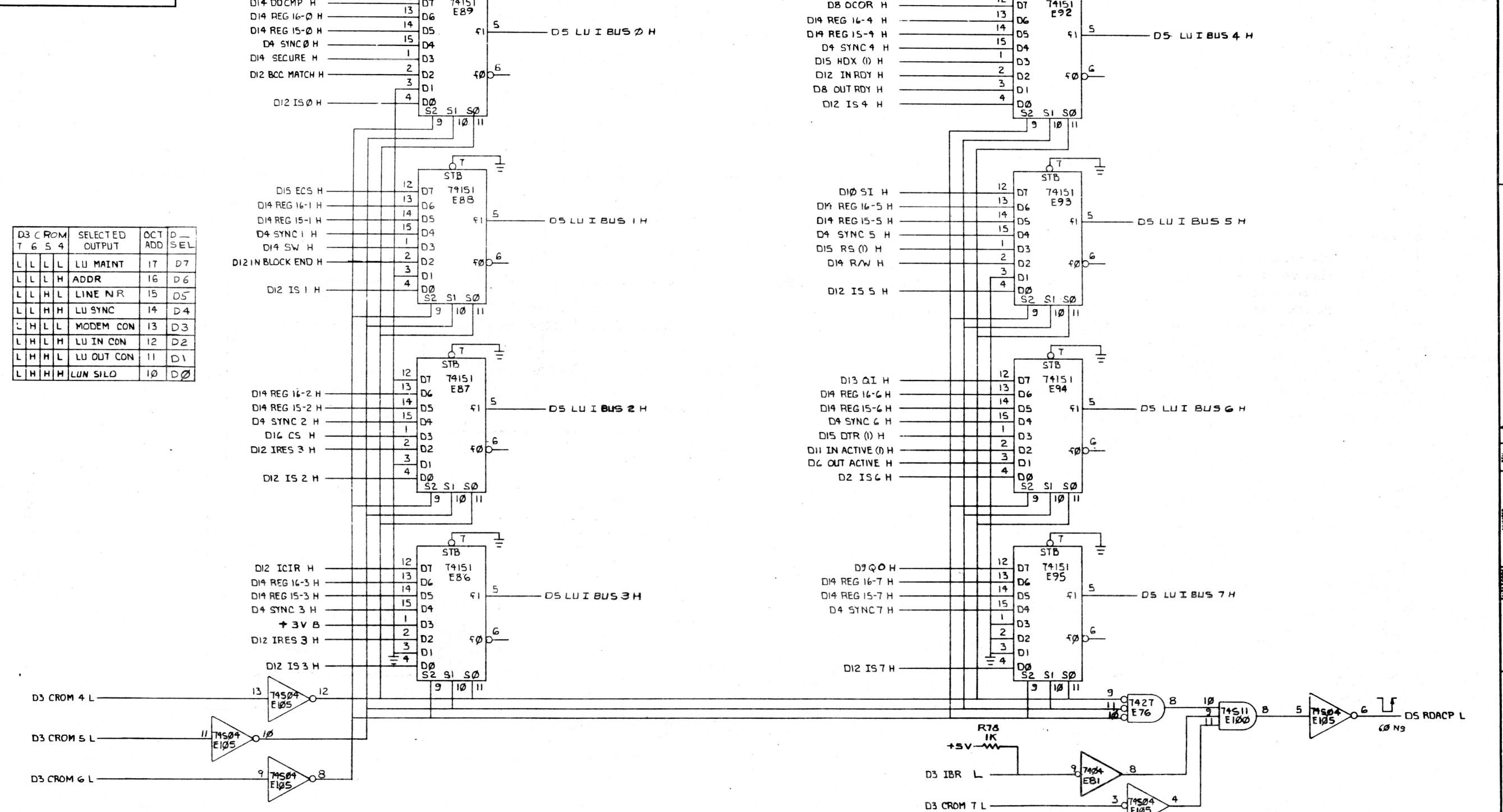


REVISIONS		
CHK	CHANGE NO	REV

TITLE		IPL SLU HI	
SCALE	SHEET 4 OF 16	SIZE CODE	NUMBER
		(04) DCS	M8202-0-1
		DIST.	REV.
			J

DCS M8202-0-1 J

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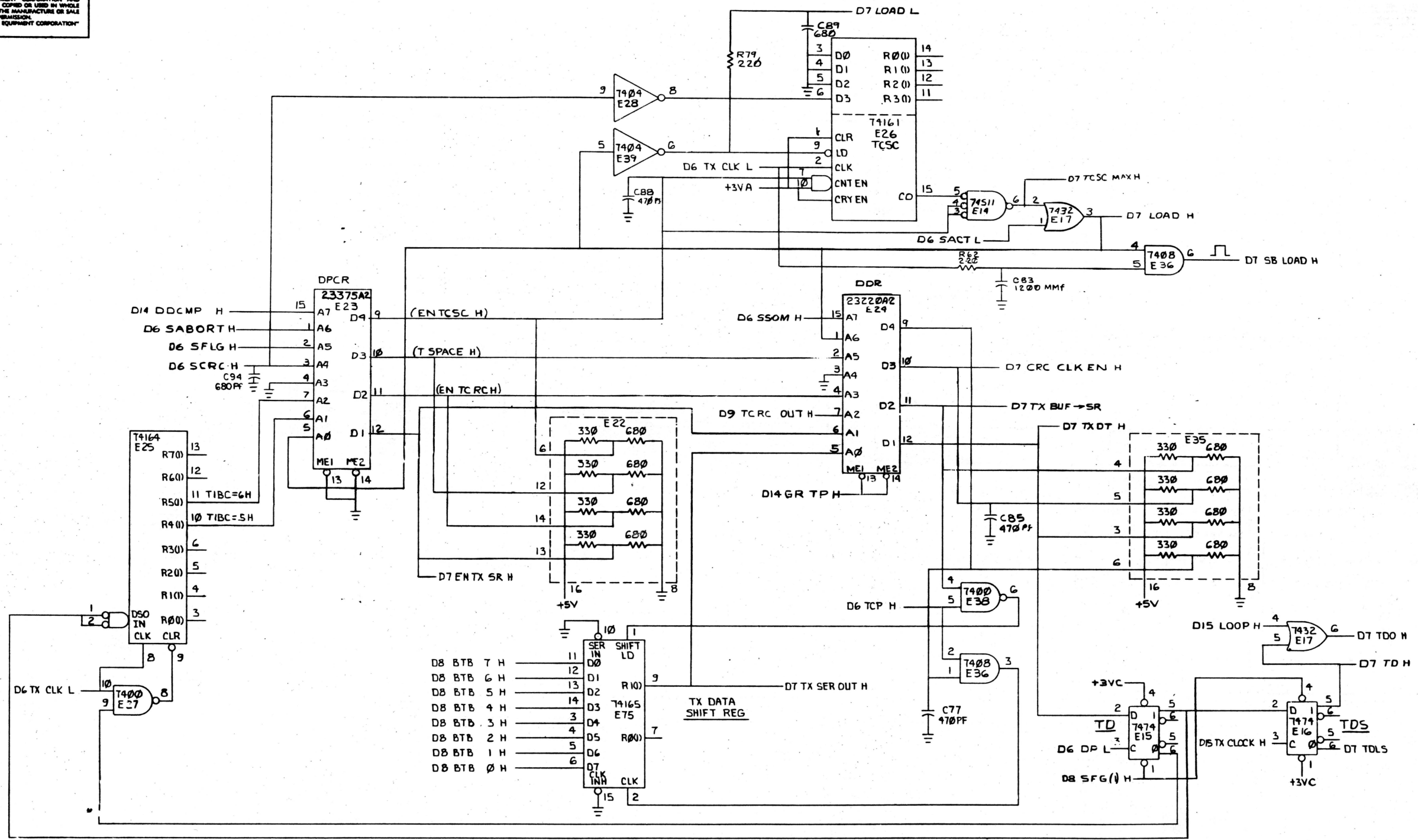


D3 CROM T 6 S 4	SELECTED OUTPUT	OCT ADD	D SEL
L L L L	LU MAINT	17	D7
L L L H	ADDR	16	D6
L L H L	LINE NR	15	D5
L L H H	LU SYNC	14	D4
L H L L	MODEM CON	13	D3
L H L H	LU IN CON	12	D2
L H H L	LU OUT CON	11	D1
L H H H	LUN SILO	10	D0

REVISIONS		
CHK	CHANGE NO	REV



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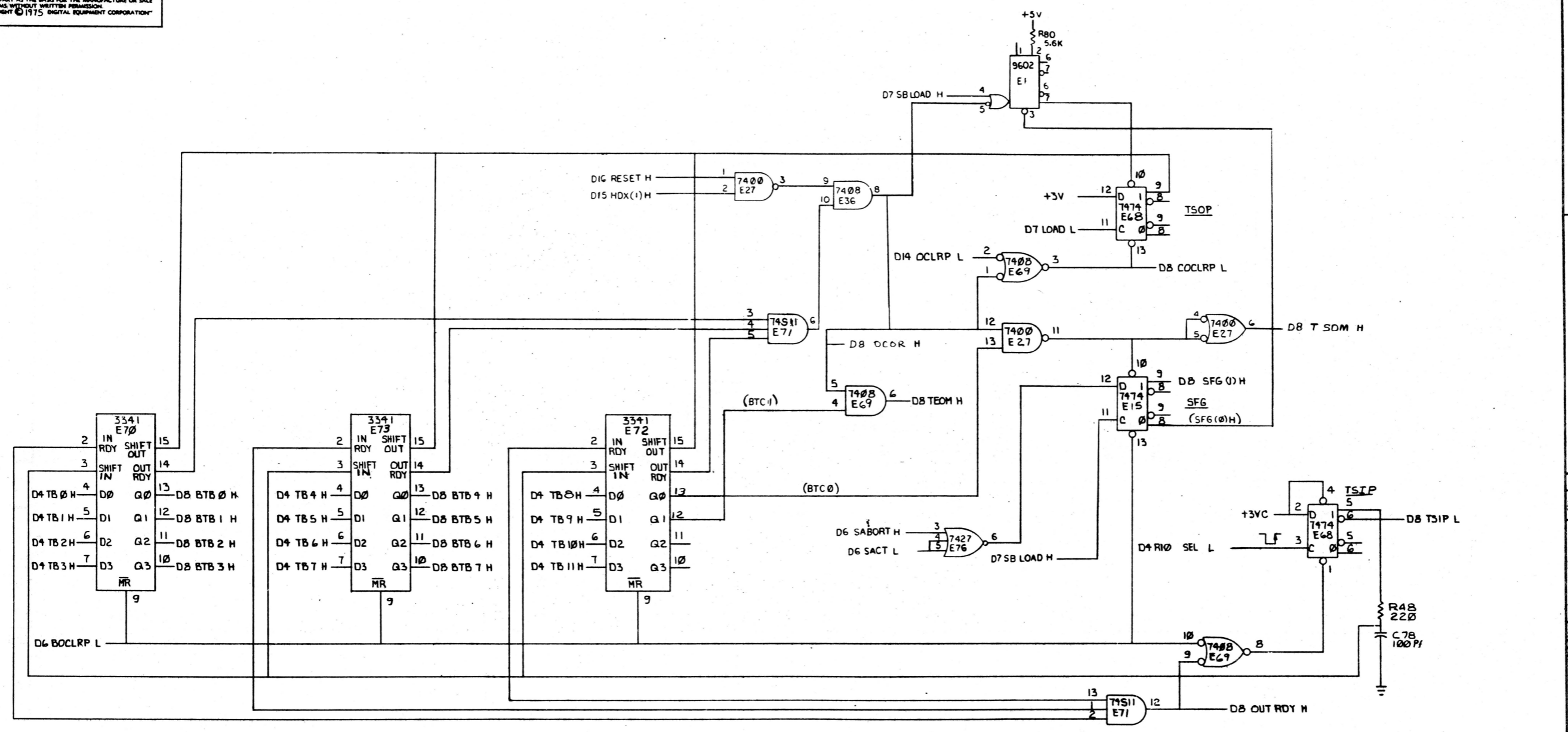
REV	CHANGE NO.	REV

(TX CONTROL 2)

TITLE	IPL SLU HI	SIZE CODE	(07)	NUMBER	DCS M8202-0-1	REV.	J
SCALE	1/1	SHEET	7	OF	16	DIST.	

MK

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REVISIONS		
CHK	CHANGE NO.	REV.

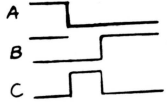
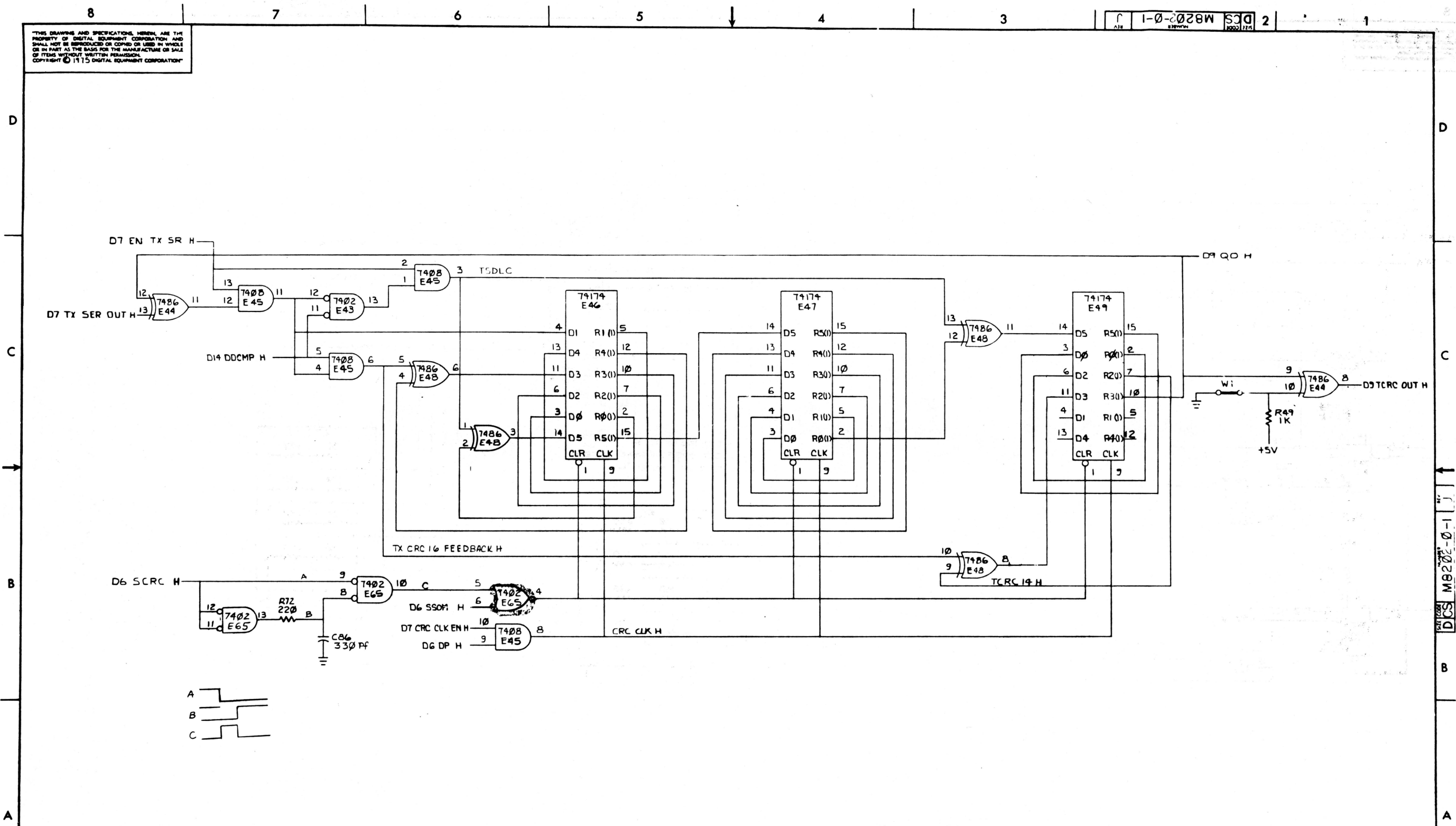
DEC FORM NO. 138

(OUT DATA SILO)		TITLE	SIZE/SCALE	NUMBER	REV.
IPL SLU HI		(DB)	DCS	M8202-0-1	J
SCALE	SHEET	OF	TOTAL	DIST.	
---	8	16			

MK

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1-0-028W DCS M8202-0-1 2

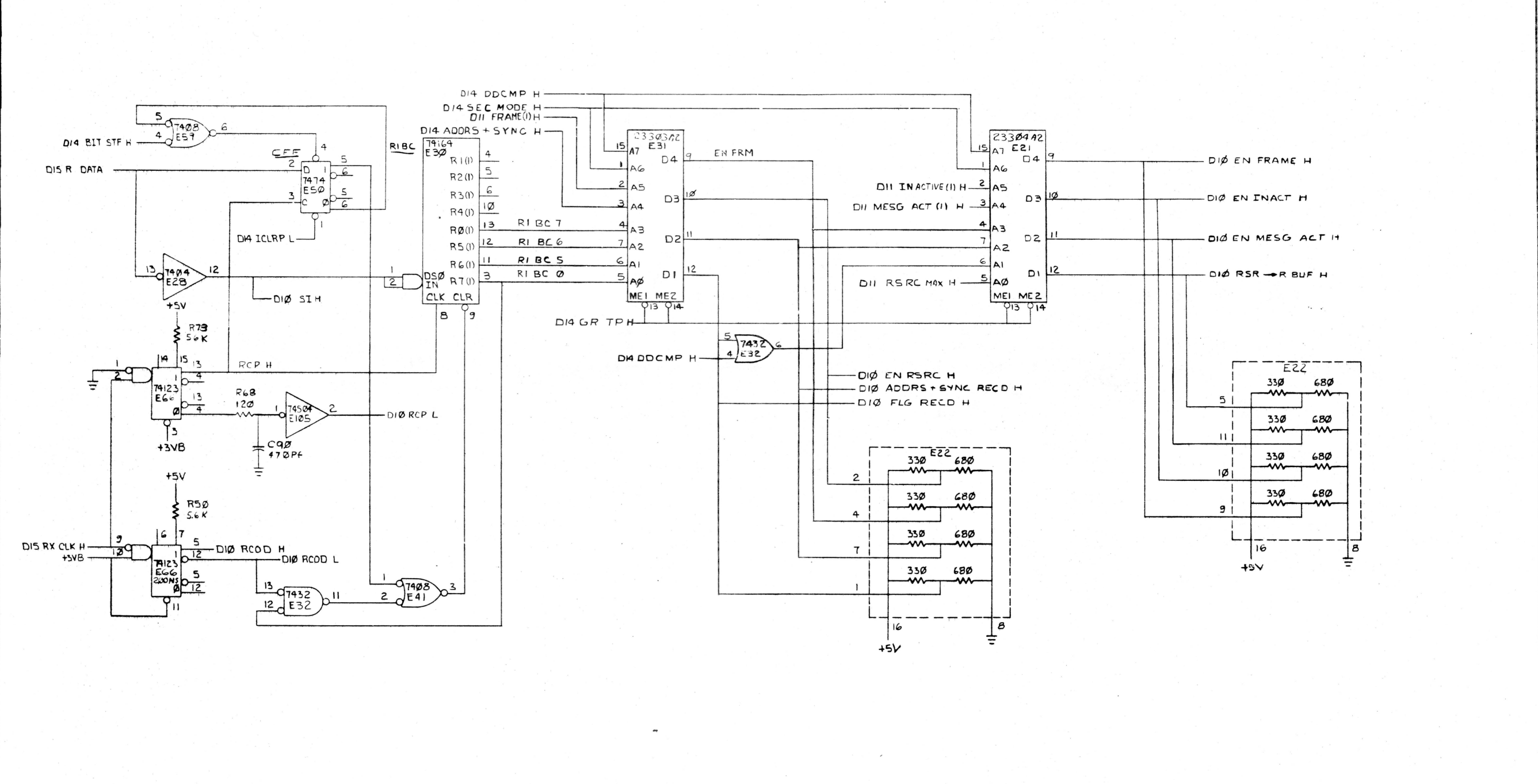


REVISIONS		
CHK	CHANGE NO	REV

TITLE IPL SLU HI (09)		SIZE CODE DCS	NUMBER M8202-0-1	REV. J
SCALE 1/1K	SHEET 5	OF 16	DIST.	

DEC FORM NO. 980 128

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REVISIONS		
CHK	CHANGE NO	REV

(RX CONTROL 1)

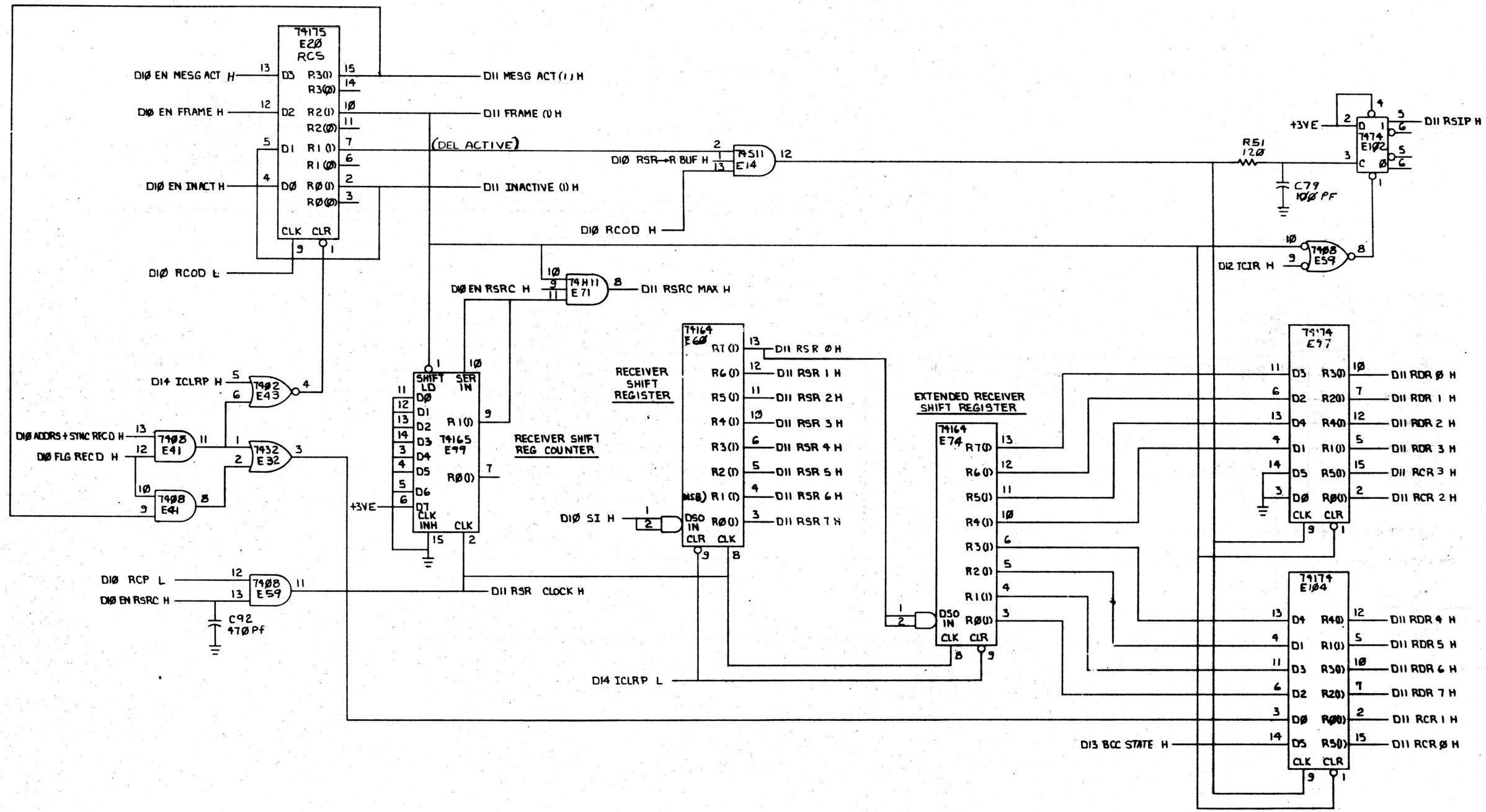
TITLE	IPL SLU HI	SIZE CODE	(D10) DCS	NUMBER	M8202-0-1	REV.	J
SCALE	1/1	SHEET 10	OF 16	DIST.			

REV J  
NUMBER  
DCS M8202-0-1

MK

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1-0-2028W DCS 2



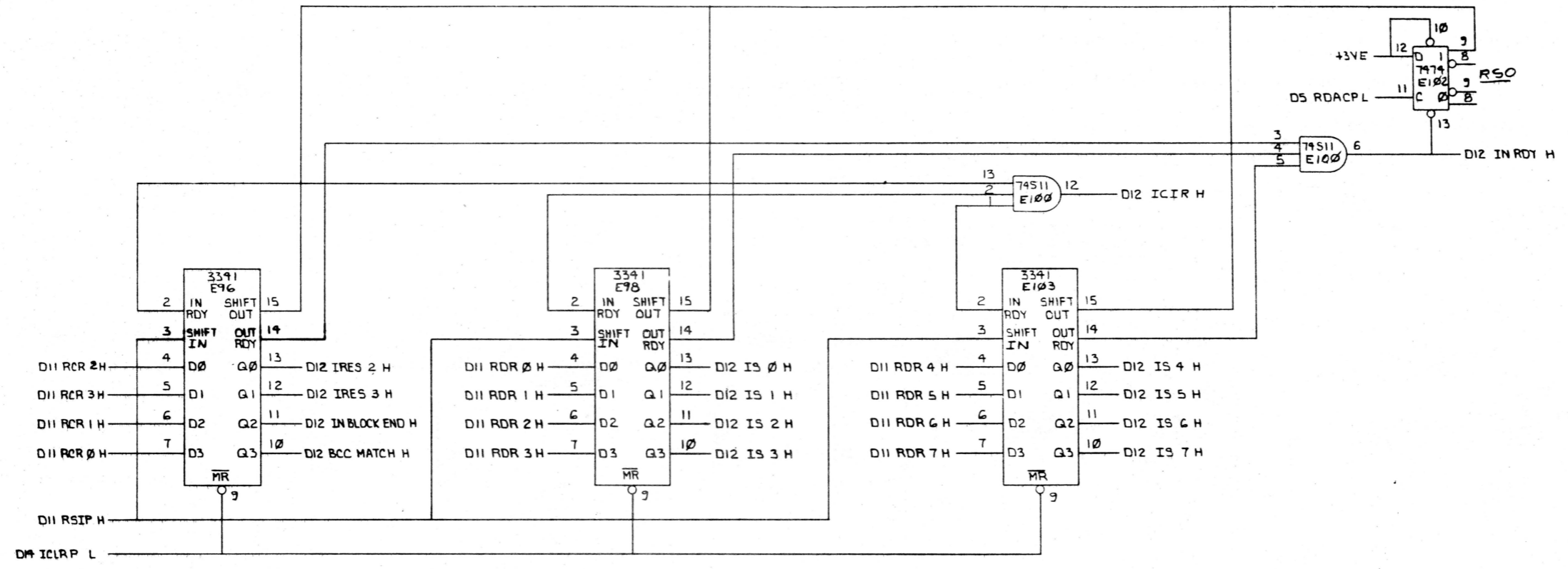
DCS M8202-0-1 J

REVISIONS		
CHK	CHANGE NO.	REV.

(RX CONTROL 2)

TITLE IPL SLU HI (01) SIZE CODE DCS NUMBER M8202-0-1 REV. J  
SCALE 1/1 SHEET 11 OF 16 DIST. MK 1

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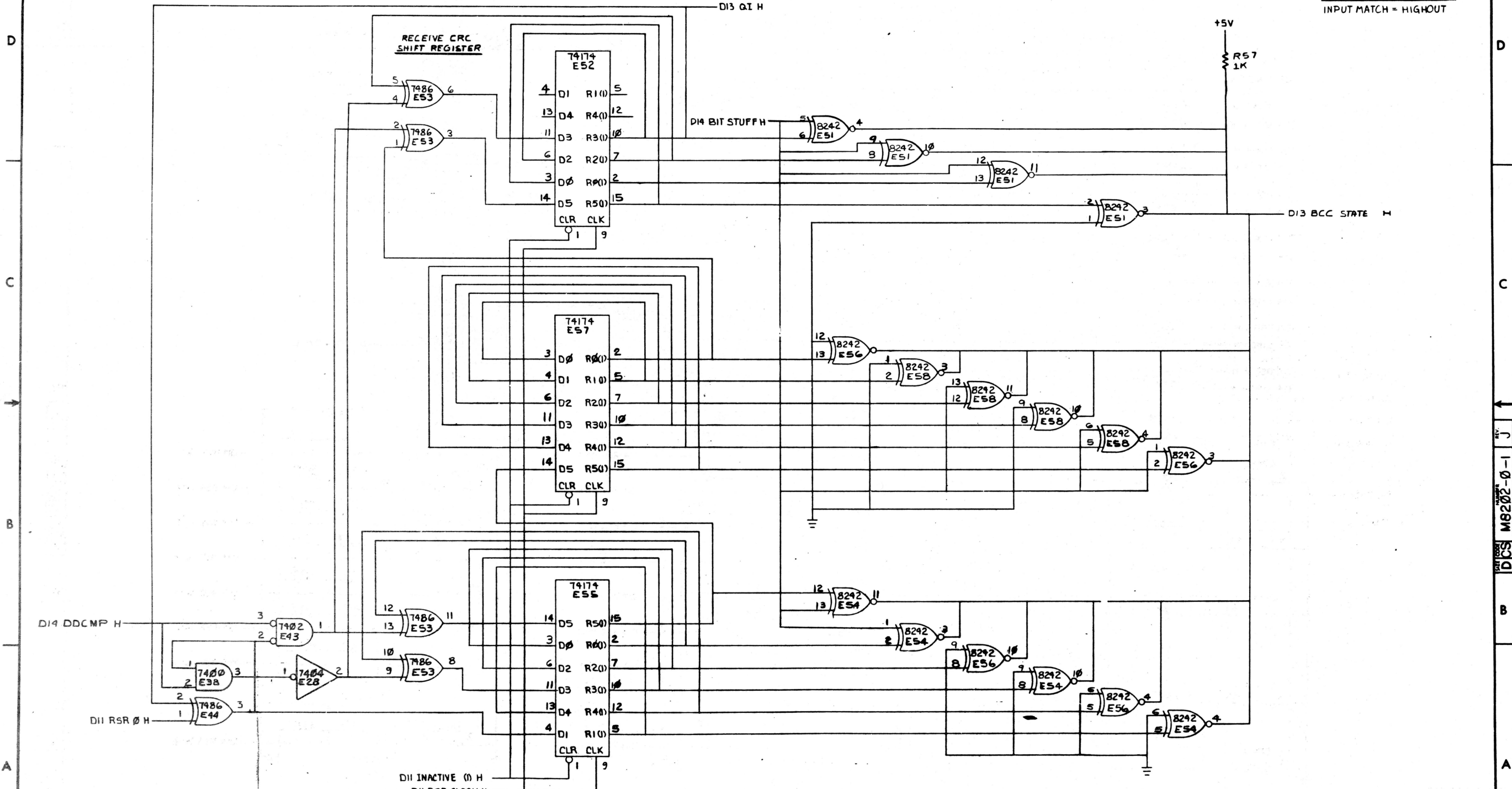
REVISIONS		
CHK	CHANGE NO.	REV.

(IN DATA SILO)

TITLE	IPL SLU HI	SIZE CODE	(012)	DCS	NUMBER	M8202-0-1	REV.	J
SCALE	1:1	SHEET	12	OF	16	DIST.		

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8242 TRUTH TABLE  
INPUT MATCH = HIGHOUT



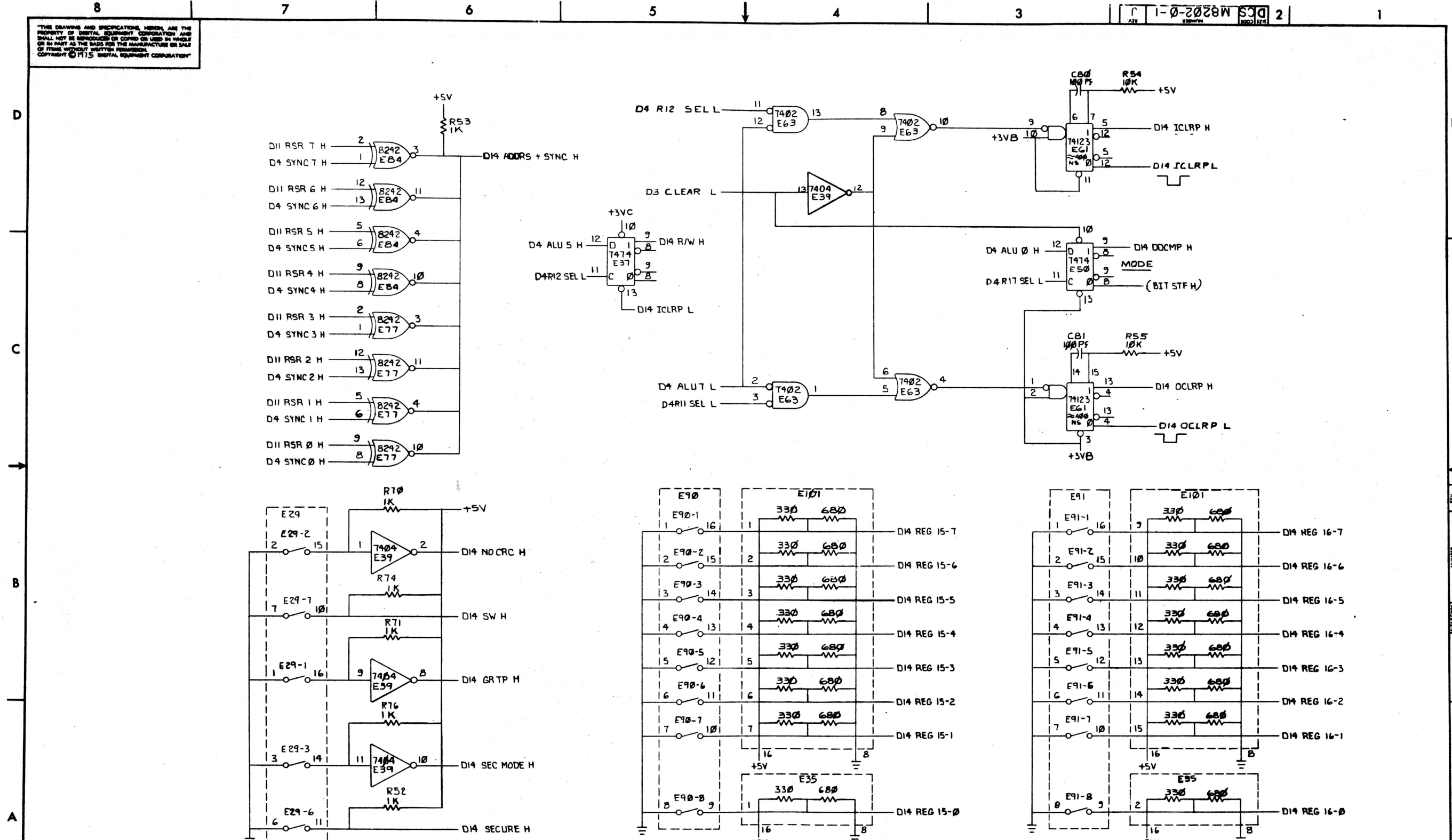
(RX BCC CONTROL)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU HI	SIZE CODE	DCS	NUMBER	M8202-0-1	REV.	J
SCALE	1/1	SHEET	13	OF	16	DWT.	

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1-0-028W SCD 2



REVISIONS			TITLE		SIZE/SCALE	NUMBER	REV.	
CHK	CHANGE NO.	REV.	IPL SLU HI		(D14)	DCS	M8202-0-1	J
			SCALE	SHEET 14	OF 16	DIST.		

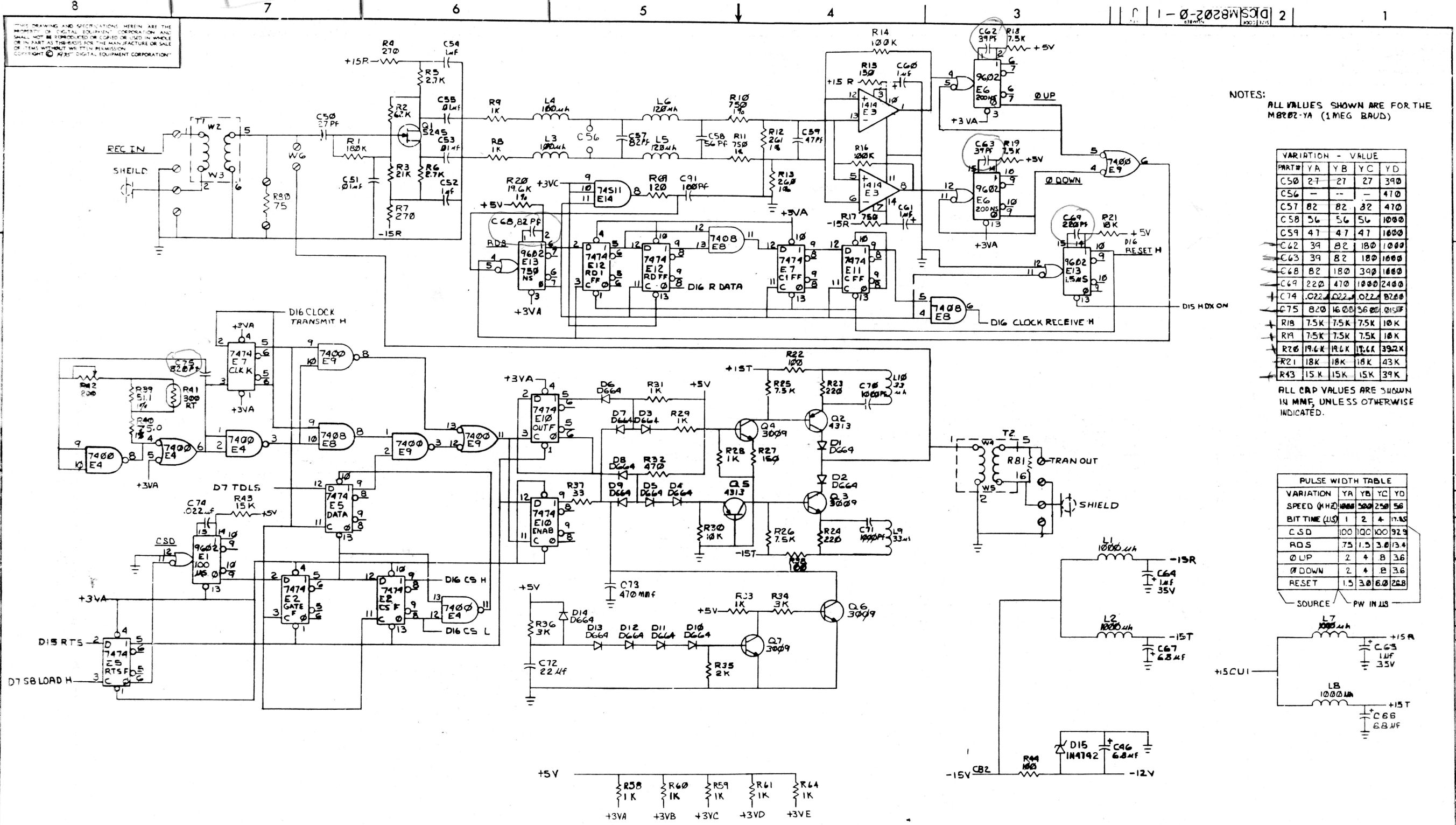
REV J  
PART NO. M8202-0-1  
DCS

MK



8200-YB  
8202-YA

09044-00-HEX

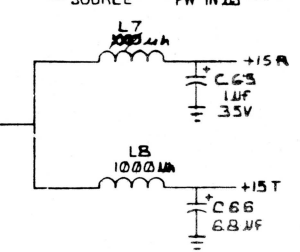


NOTES:  
ALL VALUES SHOWN ARE FOR THE  
M8202-YA (1MEG BAUD)

VARIATION - VALUE				
PART#	YA	YB	YC	YD
C50	27	27	27	390
C56	-	-	-	410
C57	82	82	82	410
C58	56	56	56	1000
C59	47	47	47	1000
C62	39	82	180	1000
C63	39	82	180	1000
C68	82	180	390	1000
C69	220	470	1000	2400
C74	022	022	022	0200
C75	820	1600	3600	0150
R18	7.5K	7.5K	7.5K	10K
R19	7.5K	7.5K	7.5K	10K
R20	19.6K	19.6K	19.6K	392K
R21	18K	18K	18K	43K
R43	15K	15K	15K	39K

ALL CAP VALUES ARE SHOWN  
IN MMF, UNLESS OTHERWISE  
INDICATED.

PULSE WIDTH TABLE					
VARIATION	YA	YB	YC	YD	
SPEED (KHZ)	1000	500	250	50	
BIT TIME (US)	1	2	4	17.5	
C.S.D	100	100	100	92.9	
R.D.S	75	1.5	3.0	13.4	
Q.L.P	2	4	8	3.6	
Q.DOWN	2	4	8	3.6	
RESET	1.5	3.0	6.0	24.8	



DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:		
MADE BY BOB SMITH DATE 3-12-76		CHECKED KENT GLEEZEN DATE 4-26-76		SECTION 1														
ENG BOB SMITH DATE 4-26-76		PROD R. WALL DATE 4-26-76		ISSUED SECTION 1														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0											REF DESIGNATION
1	D-MD-5011764-0-0	5011764	ETCHED CIRCUIT BOARD	1	1	1	1											
2		1100114	DIODE DEC D664	14	14	14	14											D1-D14
3		1109502	DIODE IN4742 12V ZENER	1	1	1	1											D15
4		1210711-02	HANDLE, MODULE	1	1	1	1											
5		1211164-04	SWITCH PACKAGE (8 PER PACK)	3	3	3	3											E29, E90, E91
6		1209941-02	CONNECTOR (40 PIN)	1	1	1	1											J1
7		1503100	TRANSISTOR DEC 3009B	4	4	4	4											Q3, Q4, Q6, Q7
8		1505715	TRANSISTOR 2N4313	2	2	2	2											Q2, Q5
9		1509681	TRANSISTOR DEC 5245	1	1	1	1											Q1
10		1000023	CAP 330 Mmf	1	1	1	1											C86
11		1610662	INDUCTOR 100 Uf	2	2	2	-											L3, L4
12		1610663	INDUCTOR 120 Uh	2	2	2	-											L5, L6
13		1611317	INDUCTOR 470 Uh	-	-	-	2											L9, L10
14		1602723	INDUCTOR 1000 Uh	4	4	4	4											L1, L2, L7, L8
15		1603421	INDUCTOR 2200 Uh	-	-	-	4											L3-L6
16		1612940	TRANSFORMER 1500V	2	2	2	2											T1, T2
17		2111188	DEC IC 3341	6	6	6	6											E70, E72, E73, E96, E98, E103
18		1905547	IC DEC 7474	15	15	15	15											E2, E5, E7, E10, E11, E12, E15, E16, E37, E42, E50, E64, E67, E68, E102
19		1905575	IC DEC 7400	4	4	4	4											E4, E9, E27, E38
20		1909004	IC DEC 7402	3	3	3	3											E43, E63, E65
21		1909686	IC DEC 7404	4	4	4	4											E28, E39, E80, E81
22		1909712	IC DEC 8242	6	6	6	6											E51, E54, E56, E58, E77, E84
23		1909936	IC DEC 74151	8	8	8	8											E86-E89, E92-E95
24		1909937	IC DEC 74153	1	1	1	1											E18
25		1910011	IC DEC 7486	3	3	3	3											E44, E48, E53
26		1910041	IC DEC 74164	4	4	4	4											E25, E30, E60, E74
27		1910155	IC DEC 7408	6	6	6	6											E8, E36, E41, E45, E59, E69

E.C.O. NO.  
00002  
00003  
00004  
00005  
MK006

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					SHEET 1 OF 5	INSERTION PARTS LIST DATA BASE REV D			

MK

# DIGITAL EQUIPMENT CORPORATION PARTS LIST

MADE BY DATE	BOB SMITH 3-12-76	CHECKED KENT GLEEZEN DATE	4-26-76
ENG DATE	BOB SMITH 4-26-76	PROD R. WALL DATE	4-26-76

SECTION 1	ISSUED SECTION 1
--------------	---------------------

QUANTITY / VARIATION							
M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0				
1	1	1	1				
3	3	3	3				
1	1	1	1				
3	3	3	3				
1	1	1	1				
4	4	4	4				
11	11	11	11				
1	1	1	1				
1	1	1	1				
3	3	3	3				
2	2	2	2				
1	1	1	1				
2	2	2	2				
1	1	1	1				
1	1	1	1				
1	1	1	1				
1	1	1	1				
48	48	48	-				
			46				
1	1	1	1				
6	6	6	6				
1	1	1	1				
1	1	1	-				
-	-	-	1				
2	-	-	-				
1	1	1	-				

NOTES:  
  
\* ANY VARIATION FOR THE .01 CAPS

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0	REF DESIGNATION
28		1910337	IC DEC 1414L	1	1	1	1	E3
29		1910436	IC DEC 74123	3	3	3	3	E40, E61, E66
30		1910534	IC DEC 74S04	1	1	1	1	E105
31		1910537	IC DEC 74S11	3	3	3	3	E14, E71, E100
32		1910650	IC DEC 74161	1	1	1	1	E26
33		1910651	IC DEC 74175	4	4	4	4	E20, E62, E78, E83
34		1910652	IC DEC 74174	11	11	11	11	E33, E46, E47, E49, E52, E55, E57, E79, E82, E97, E104
35		1910549	IC DEC 74S158	1	1	1	1	E19
36		1910878	IC DEC 7427	1	1	1	1	E76
37		1910951	IC DEC 9602	3	3	3	3	E1, E6, E13
38		1911521	IC DEC 7432	2	2	2	2	E17, E32
39		1911675	IC DEC 74S138	1	1	1	1	E85
40		1912346	IC DEC 74165	2	2	2	2	E75, E99
41		23304A2	256 X 4 OC. ROM	1	1	1	1	E21
42		23345A2	256 X 4 OC. ROM	1	1	1	1	E34
43		23220A2	256 X 4 OC. ROM	1	1	1	1	E24
44		23375A2	256 X 4 OC. ROM	1	1	1	1	E23
45		23303A2	256 X 4 OC. ROM	1	1	1	1	E31
46		1001610 *	CAP .01 Uf	48	48	48	-	C1-C45, C51, C53, C55
		1001610 *	CAP .01 Uf				46	C1-C45, C51
47		1010978-32	CAP .047 Mf	1	1	1	1	C82
48		1001776	CAP 1 Mf	6	6	6	6	C52, C54, C60, C61, C64, C65
49		1005636	CAP 22 Mf	1	1	1	1	C72
50		1001739	CAP 27 Mmf	1	1	1	-	C50
51		1001631	CAP 390 Mmf	-	-	-	1	C50
52		1000010	CAP 39 Mmf	2	-	-	-	C62, C63
53		1000011	CAP 47 Mmf	1	1	1	-	C59

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INSERTION PARTS LIST DATA BASE REV D

*MH*



# DIGITAL EQUIPMENT CORPORATION PARTS LIST

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION								NOTES:		
MADE BY DATE	BOB SMITH 3-12-76	CHECKED DATE	KENT GLEEZEN 4-26-76	SECTION 1										
ENG DATE	BOB SMITH 4-26-76	PROD DATE	R. WALL 4-26-76	ISSUED SECTION 1										
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0						REF DESIGNATION	
77		1311003-02	RES PACK	3	3	3	3						E22, E35, E101	
78		1300432	RES 3K 1/4W 5%	2	2	2	2						R34, R36	
79		1300316	RES 470 1/4W 5%	1	1	1	1						R32	
80		1301401	RES 750 1/4W 5%	1	1	1	1						R17	
81		1300510	RES 33K 1/4W 5%	2	2	2	2						R45, R46	
82		1301972	RES 270 1/4W 5%	2	2	2	2						R4, R7	
83		1301874	RES 5.6K 1/4W 5%	2	2	2	2						R50, R82	
84		1300365	RES 1K 1/4W 5%	21	21	21	21						R8, R9, R28, R29, R31, R33, R49, R52, R53, R57-R61, R64, R70, R71, R73, R74, R76, R77	
85		1303064	RES 75 1/8W 1%	1	1	1	1						R40	
86		1302388	RES 2K 1/4W 5%	1	1	1	1						R35	
87		1302466	RES 100K 1/4W 5%	2	2	2	2						R14, R16	
88		1304805	RES 750 1/4W 1%	2	2	2	2						R10, R11	
89		1305122	RES 51.1 1/4W 1%	1	1	1	1						R39	
90		1309150-10	RES 200 1/2W POT	1	1	1	1						R42	
91		1302298	RES 261 1/4W 1%	2	2	2	2						R12, R13	
92		1300197	RES 33 1/4W 5%	1	1	1	1						R37	
93		1304837	RES 24K 1/4W 5%	1	1	1	1						R3	
94		1000024	CAP 470 Mmf	7	-	7	-						C73, C77, C85, C87, C88, C90, C92	
		1000024	CAP 470 Mmf	-	8	-	-						C69, C73, C77, C85, C87, C88, C90, C92	
		1000024	CAP 470 Mmf	-	-	-	9						C56, C57, C73, C77, C85, C87, C88, C90, C92	
95		1000015	CAP 82 Mmf	2	-	-	-						C57, C68	
		1000015	CAP 82 Mmf	-	3	-	-						C57, C62, C63	
		1000015	CAP 82 Mmf	-	-	1	-						C57	
96		1302514	RES 39K 1/4W 5%	-	-	-	1						R43	
97		1301422	RES 7.5K 1/4W 5%	4	4	4	-						R18, R19, R25, R26	
		1301422	RES 7.5K 1/4W 5%	-	-	-	2						R25, R26	

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INSERTION PARTS LIST DATA BASE REV D					

*MIX*





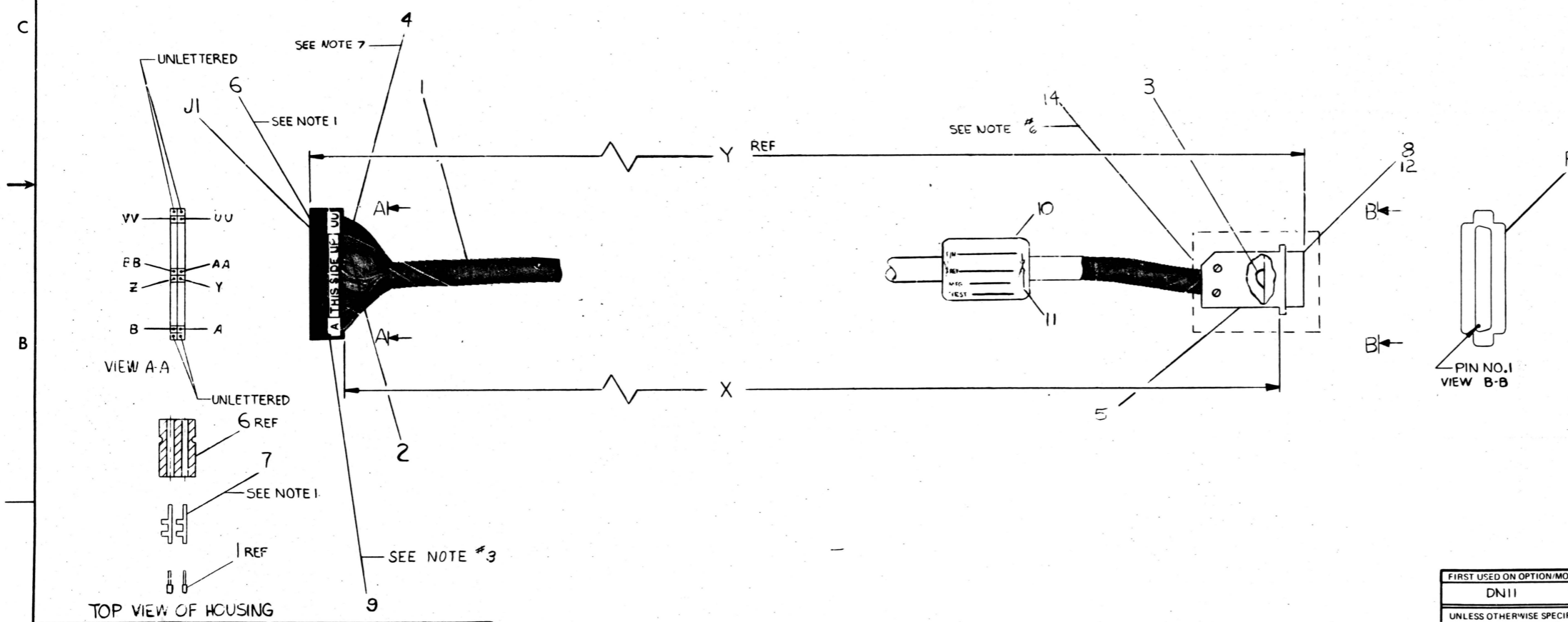
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WIRE TABLE							LEGEND								
ITEM NO.	AWG	COLOR	FROM		TO		ITEM NO.	AWG	COLOR	FROM		TO			
			CONNECTION	WITH	CONNECTION	WITH				CONNECTION	WITH	CONNECTION	WITH		
1	26	BLU/WHT	PI-1	*	12	J1-VV	7	1	26	RED/BRN	PI-16	8	J1-NN	7	
		WHT/BLU	PI-2		5	J1-F				SLA	PI-17		J1-R		
		ORN/WHT	PI-3			J1-J				RED/SLA	PI-18		J1-U		
		WHT/ORN	PI-4			J1-V				BLU/BLK	PI-19		J1-P		
		GRN/WHT	PI-5			J1-T				BLK/BLU	PI-20		J1-DD		
		WHT/GRN	PI-6		5	J1-Z				ORN/BLK	PI-21		J1-MM		
		BRN/WHT	PI-7	**	12	J1-UU				BLK/ORN	PI-22		J1-X		
		WHT/BRN	PI-8		5	J1-BB				GRN/BLK	PI-23		J1-RR		
		SLA/WHT	PI-9			J1-Y				BRN/RED	PI-24		J1-L		
		WHT/SLA	PI-10			J1-W				RED/ORN	PI-25	5	J1-C		
		BLU/RED	PI-11			J1-FF				SHIELD	PI-1	*	12	J1-A	7
		RED/BLU	PI-12			J1-JJ				SHIELD	PI-7	**	12	J1-B	7
		ORN/RED	PI-13			J1-D				BLK	PI-1	*	12	PI-7 **	12
		SLA/RED	PI-14			J1-LL				RED	J1-E	7	J1-M	7	
1	26	SLA/GRN	PI-15		5	J1-N	7								

NB \* DENOTES THREE WIRES ARE SOLDERED INTO THE PI-1 SOLDER CUP  
 \*\* DENOTES THREE WIRES ARE SOLDERED INTO THE PI-7 SOLDER CUP

NUMBER	VARIATION	
	DIM X	DIM Y (PRECUR)
BC05C-25	25 ± 3"	25' 1.8"
BC05C-50	50 ± 2%	50' 1.8"
BC05C-09	9 ± 3"	9' 1.8"
BC05C-1F	18 ± 1"	19.8"

- NOTES:
- MANUFACTURING SHOULD USE MACHINE CRIMPER TOOL FOR CRIMPING PINS (ITEM #7) MUST BE HT68 FROM BERG ELECT
  - ONLY DEC PART #1210918-15 MAY BE USED AS J1.
  - PLACE ITEM #9 ("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM #6 (BERG HOUSING) AS SHOWN.
  - USE ITEM #13 (9107304) IN TWO PLACES (PI-1, PI-7) TO PREVENT SHORTING
  - USE ITEM #12 (9107295) IN ONE PLACE - REMAINING SOLDER CUPS TO PREVENT SHORTING.
  - DUE TO ± TOLERANCES WITH DIFFERENT VENDORS THE HOOD (ITEM #5) MAY VARY IN OUTSIDE DIAMETER CAUSING POTENTIAL STRAIN RELIEF GRIPPING PROBLEM. SHOULD THIS CONDITION BE PRESENT USE ITEM #4 (9107834) AT JUNCTION OF CABLE AND HOOD.
  - PLACE ITEM #4 (9107256) OVER SHIELD WIRE J1-A, J1-B, PI-1, PI-7.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	HOOD	121049350	15
A/R	TAPE, DOUBLE SIDED	9007834	14
1	MALE S-REW	121049351	13
2	PIN CONTACT	1215241	12
2	TIE WRAPS	9007031	11
1	CABLE, LABEL	9009532	10
1	LABEL, THIS SIDE UP	3611567	9
23	PIN 24-28 AWG	121049343	8
29	SOCKET, *HT-68	12100895	7
1	HOUSING, *20303 BERG	121091815	6
1	SHELL AND INSECT MALE	121049331	5
A/R	TUBING, *22 AWG TEF BLK	910725600	4
A/R	WIRE, *26 AWG STRD TEF BLK	910763600	3
A/R	WIRE, *26 AWG STRD TEF RED	910763622	2
A/R	CABLE, 25 CONDUCTOR *26 AWG	9107736	1

REV	CHANGE NO	DATE	BY	CHKD
A	BC05C-0001	7-14-78	SMITH	
B	BC05C-0002	8-1-78	SMITH	
C	BC05C-0003	10-28-78	SMITH	
D	BC05C-0004	11-1-78	SMITH	
E	BC05C-0005	11-1-78	SMITH	
F	BC05C-0006	11-1-78	SMITH	
G	BC05C-0007	11-1-78	SMITH	
H	BC05C-0008	11-1-78	SMITH	
I	BC05C-0009	11-1-78	SMITH	
J	BC05C-0010	11-1-78	SMITH	

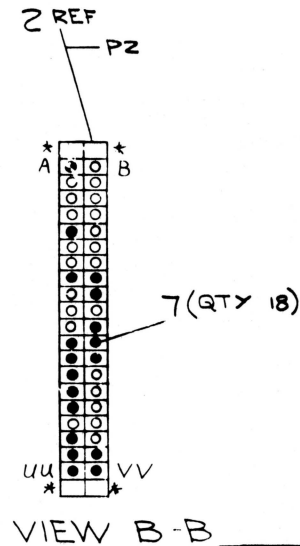
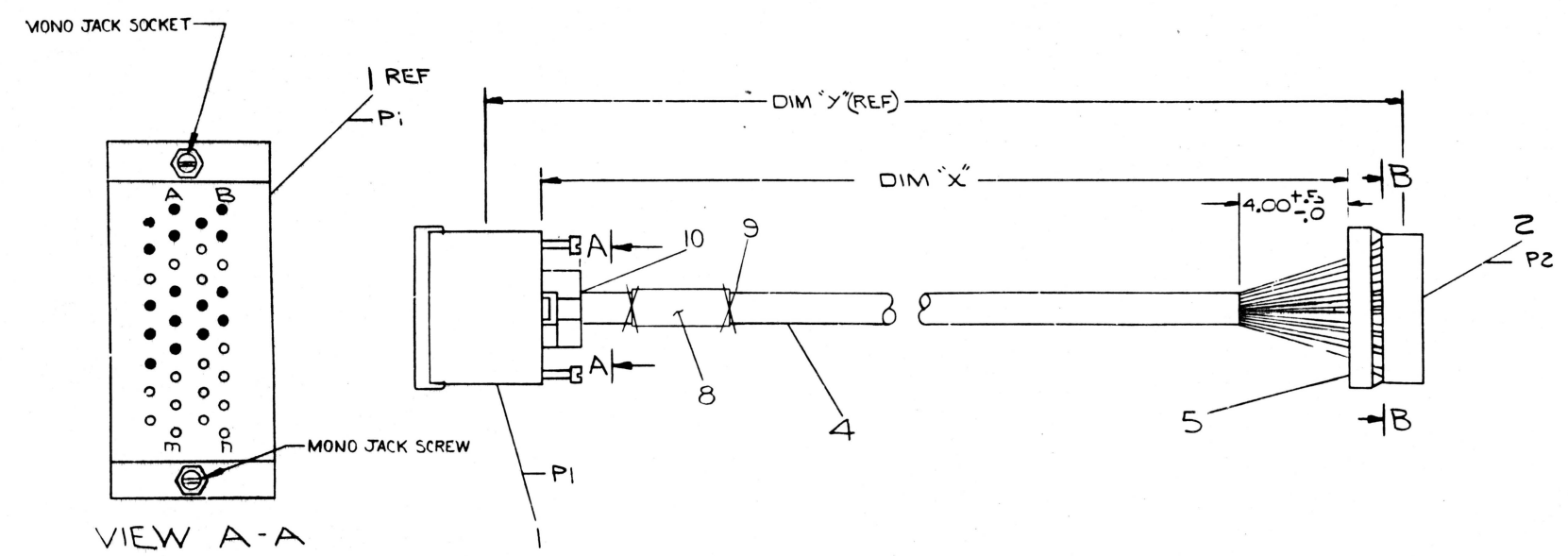
FIRST USED ON OPTION/MODEL		PARTS LIST	
DN11			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN: <i>Roberts</i> DATE: 11/1/78	digital EQUIPMENT CORPORATION	
DECIMALS ANGLES	CHK: <i>CK</i> DATE: 11/1/78	TITLE: CABLE, MODEM BC05C	
xxx - 005 ± 0° 30'	ENG: <i>W. Smith</i> DATE: 11/1/78	SIZE CODE: DUA	NUMBER: BC05C-0-0
x - 1	PROJ. ENG.: <i>W. Smith</i> DATE: 11/1/78	REV: H	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD: <i>W. Smith</i> DATE: 11/1/78		
MATERIAL: ++	NEXT HIGHER ASSY: ++		
FINISH: ++	SCALE: NONE		
	SHEET: 1 OF 1		

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ITEM NO	DESCRIPTION		FROM		TO		REMARKS (SIGNAL NAME)	SHIELD COLOR
	AWG	COLOR	CONN	WITH	CONN	WITH		
4	*22 TWP	RED	PI-P	1 & 3	P2-AA	2 & 7	TX DATA DIFF +	RED
		BLK	PI-S		P2-KK		TX DATA DIFF -	
		WHT	PI-R		P2-S		RX DATA DIFF +	RED
		BLK	PI-T		P2-K		RX DATA DIFF -	
		GRN	PI-Y		P2-CC		TX CLOCK DIFF +	GRN
		BLK	PI-Q		P2-TT		TX CLOCK DIFF -	
		BLU	PI-V		P2-HH		RX CLOCK DIFF +	BLU
		BLK	PI-X		P2-SS		RX CLOCK DIFF -	
		YEL	PI-U		P2-PP		AUX CLOCK DIFF +	BLU
		BLK	PI-W		P2-EE		AUX CLOCK DIFF -	
		BRN	PI-C		P2-V		RTS	BLU
		BLK			P2-UU		GND	
		ORN	PI-E		P2-Z		DSR	BLU
		BLK	PI-A		P2-A		GND	
		WHT	PI-H		P2-DD		DTR	BLU
		RED	PI-F		P2-BB		CDET	
	*22 TWP	GRN	PI-D		P2-T		CTS	BLU
		RED			P2-VV 2 & 7		GND	
ALL DRAIN WIRES			PI-B 1 & 3	SEE NOTE #3		GND		

LEGEND		
NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
BC05Z-25	25 FT Ø IN ± 3 IN	25 FT 2 IN ± 3 IN

- NOTES:**
- STRIP BACK OUTER JACKET TO ALLOW SEPARATION OF WIRES.
  - STRIP BACK FOIL TAPE.
  - SOLDER DRAIN WIRE (UNINSULATED WIRE IN EACH PAIR) TOGETHER AND COVER WITH "SHRINK TUBING" (ITEM #6) IN SUCH A MANNER THAT THE DRAIN WIRES MAY BE ATTACHED TO PIN PI-B. THIS MEANS: SOLDER THE DRAIN WIRES IN SUCH A WAY THAT A DRAIN WIRE(S) MAY BE CRIMPED INTO A PIN (ITEM 3).
  - ALL UNUSED WIRES (NOT CONNECTED TO PI OR P2) TO BE CUT FLUSH WITH OUTER INSULATION OF CABLE.



REV.	DATE	BY	CHK	DESCRIPTION
A	26 May 77	B. SMITH		BC05Z-00001
B	15 June 77	P. ALDISI		BC05Z-00002
C	19 Feb 78	R. HARRINGTON		BC05Z-00003

DESCRIPTION	QTY	PART NO.	ITEM NO.
TAPE, DOUBLE SIDED	10	3007931	10
WRAP, TIE	9	9007031	9
LABEL, CABLE	8	9009532	8
SOCKET, CRIMP	7	1210089-07	7
TUBING, SHRINK	6	9167233-00	6
RELIEF STRAIN	5	1211166-00	5
CABLE, #22 AWG (9 TWP)	4	9107087-00	4
CONN, PIN #22-#26 AWG	3	1209629-00	3
CONN, 44 POS HSG	2	1210918-15	2
CONN ASSY (34 POS)	1	1212109-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		FIRST USED ON	
ANGLES 10° 30'	CLASS OF ACCURACY	DMC11-FA	digital
SURFACE QUALITY .IN	MEDIUM	TITLE	
QUANTITY & VARIATION	PREFERRED	CABLE, V35/DDS DSU	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS	SCALE	SIZE CODE
DO NOT SCALE DWG	NEXT HIGHER ASSY.	SHEET	NUMBER
MATERIAL SEE PART 2.151	FINISH	OF	REV.

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LEGEND

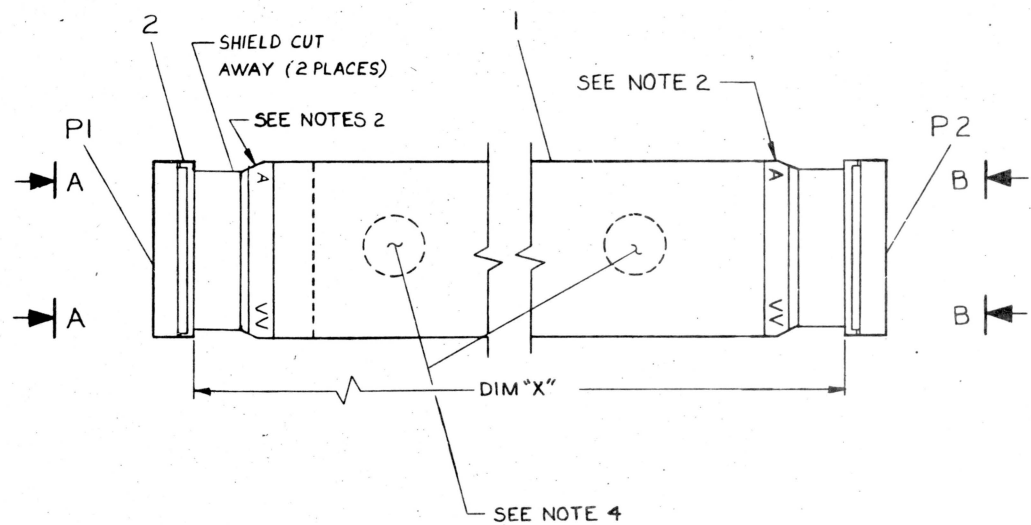
NUMBER	DIM. "X" VAR	DIM "Y" REF
BCØBS-2L	10.00 IN. ± 1.00 IN.	1.00 FT. ± 1.00 IN.
BCØBS-1B	14.00 IN. ± 1.00 IN.	16.00 IN. ± 1.00 IN.
BCØBS-1K	1.00 FT. 9.00 IN. ± 1.00 IN.	1.00 FT. 11.00 IN. ± 1.00 IN.
BCØBS-5L	70.00 IN. ± 1.50 IN.	72.00 IN. ± 1.50 IN.
BCØBS-7	7.00 FT. ± 2.00 IN.	7.00 FT. 1.50 IN. ± 2.00 IN.
BCØBS-8	8.00 FT. ± 2.00 IN.	8.00 FT. 1.50 IN. ± 2.00 IN.
BCØBS-9	9.00 FT. ± 2.00 IN.	9.00 FT. 1.50 IN. ± 2.00 IN.
BCØBS-1Ø	10.00 FT. ± 2.00 IN.	10.00 FT. 1.50 IN. ± 2.00 IN.
BCØBS-11	11.00 FT. ± 3.00 IN.	11.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-12	12.00 FT. ± 3.00 IN.	12.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-13	13.00 FT. ± 3.00 IN.	13.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-14	14.00 FT. ± 3.00 IN.	14.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-15	15.00 FT. ± 5.00 IN. - 0.00 IN.	15.00 FT. 1.50 IN. ± 5.00 IN.
BCØBS-16	16.00 FT. ± 3.00 IN.	16.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-17	17.00 FT. ± 3.00 IN.	17.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-18	18.00 FT. ± 3.00 IN.	18.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-19	19.00 FT. ± 3.00 IN.	19.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-20	20.00 FT. ± 3.00 IN.	20.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-25	25.00 FT. ± 3.00 FT.	25.00 FT. 1.50 IN. ± 3.00 IN.
BCØBS-30	30.00 FT. ± 0.600 FT.	30.00 FT. 1.50 IN. ± 0.600 FT.
BCØBS-35	35.00 FT. ± 0.700 FT.	35.00 FT. 1.50 IN. ± 0.700 FT.
BCØBS-50	50.00 FT. ± 1.000 FT.	50.00 FT. 1.50 IN. ± 1.000 FT.
BCØBS-2	2.00 FT. ± 1.00 IN.	2.00 FT. 1.50 IN. ± 1.00 IN.
BCØBS-1	1.00 FT. ± 1.00 IN.	1.00 FT. ± 1.5 IN.
BCØBS-2K	2.00 FT. ± 1.00 IN.	2.00 FT. 11.00 IN. ± 1.00 IN.

NOTES:

- CONNECTORS P1 AND P2, ARE TO BE WIRED POINT TO POINT.
- CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE AT EACH END OF CABLE ASSEMBLY.
- MUST BE ASSEMBLED TO PROCESS SPECIFICATION 7606485-0-0.
- INSPECTION AND TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.
- ~~THE NUMBER BCØBS MUST BE ON THE CABLE IN CONJUNCTION WITH CONNECTOR LEGEND IDENTIFICATION.~~

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

VIEW A-A  
CONN. LEGEND REF



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

VIEW B-B  
CONN. LEGEND REF

REV.	CHG.	BY	DATE
1	LG	BCØBS-0010	M
2	W	FISHER	14 JUN 76
3	S.	HOLMES	23 JUN 76
4	D.C.	BCØBS-0011	N
5	D.	CHIASSON	19 JUL 76
6	E.J.	NEUMYER	7-30-76
7	G.	BCØBS-MR012	P
8	A.	FILZ	3/24/78
9	ARTHUR	FILZ	
10	A.	FILZ	
11	A.	FILZ	
12	A.	FILZ	
13	A.	FILZ	
14	A.	FILZ	
15	A.	FILZ	
16	A.	FILZ	
17	A.	FILZ	
18	A.	FILZ	
19	A.	FILZ	
20	A.	FILZ	

1	LABEL, PRODUCT ID	9009255	3
2	CONNECTOR, 40 SOCKET	1211206-00	2
AR	CABLE, FLAT 40 COND	1700004-00	1

DESCRIPTION	DWG. PART NO.	ITEM NO.						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES								
ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES						
SURFACE QUALITY IN	MEDIUM	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		
		±.012	±.016	±.012	±.016	±.024	±.04	
QUANTITY & VARIATION	MICROINCHES	PREFERRED	±.012	±.016	±.028	±.04	±.083	±.1

DRN J. FERGUSON	5-12-71	FIRST USED ON	LAB8-E
ENG. D. K. CRABBE	5-13-71	TITLE	1/0 CABLE ASS'Y (DIAG. JUMPER)
PROJ. ENG. BUDIANEK	5-21-71	SIZE	CODE D IA
PROD. P. FAZIO	5-21-71	NUMBER	BCØBS-Ø-Ø
FINISH	SCALE NONE	SHEET	1 OF 1

0-0-NC008 V1.0 2

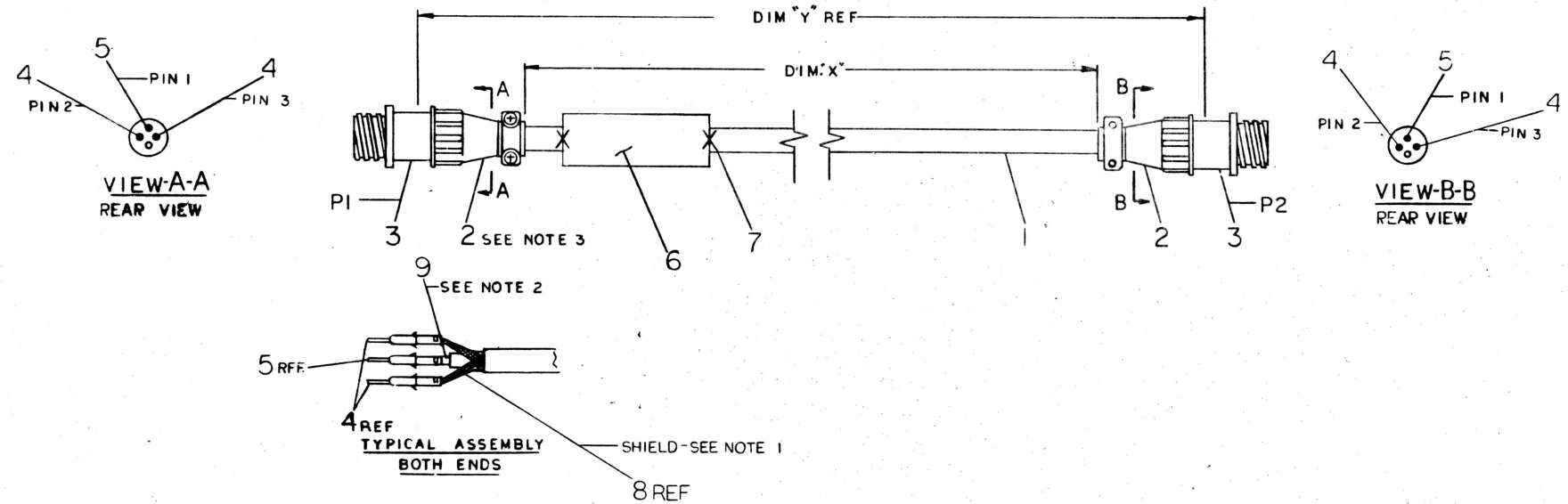
- NOTES:**
1. SLIT SHIELDING INTO TWO SEPARATE WINDINGS, CUT SLEEVING, ITEM 8, 1/2 INCH AND ASSEMBLE OVER SHIELD.
  2. STRIP INSULATION 3/8 INCH, CUT SLEEVING, ITEM 9, 3/16 INCH, AND ASSEMBLE OVER WIRE BEFORE CRIMPING.
  3. FOR PROPER STRAIN RELIEF ON CABLE ATTACH CLAMP NO. 3 SUPPLIED WITH CLAMP ASSY ITEM NO. 2.
  4. FOR PROPER ASSEMBLY OF PIN (ITEM 4) TO CABLE (ITEM 1) THESE TOOLS SHOULD BE USED:  
 1. CRIMPING TOOL, AMP# 90277-01  
 2. EXTRACTION TOOL # 305103  
 3. INSERTION TOOL # 91002-1 (FOR .070 INS DIA OR LESS)
  5. STRIP JACKET 3/4 INCH BOTH ENDS.

**LEGEND**

NUMBER	DIM. X VARIATION	DIM. Y (PRECUT) REF
BC03N-A0	99 FT ± 2 FT.	100 FT

**WIRE TABLE**

ITEM NO	DESCRIPTION		FROM		TO			
	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM
1	SOLID	NEUTRAL	---	P1-1	5	---	P2-1	5
1	SHIELD	---	---	P1-2	4	---	P2-3	4
1	SHIELD	---	---	P1-3	4	---	P2-2	4



QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
A/R	TUBING	9107267-11	9
A/R	TUBING	9107301-11	8
X 2	TIE WRAP	9007031	7
1	CABLE LABEL	9009532	6
2	PIN MALE TYPE XI	1212001-04	5
4	PIN MALE, TYPE XII	1212001-00	4
2	RECEPTACLE, FREE HANGING	1212527-00	3
2	CLAMP ASSY CABLE	1211430-00	2
A/R	COAX CABLE RG59A/U	9107534	1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

CLASS OF ACCURACY	FORMAL DIMENSION RANGE INCHES	OVER	UNDER
1	0.125 - 1.000	±0.005	±0.005
2	1.000 - 3.000	±0.008	±0.008
3	3.000 - 6.000	±0.012	±0.012
4	6.000 - 30.000	±0.015	±0.015
5	30.000 - 60.000	±0.020	±0.020
6	60.000 - 120.000	±0.030	±0.030
7	120.000 - 240.000	±0.040	±0.040
8	240.000 - 480.000	±0.050	±0.050
9	480.000 - 960.000	±0.060	±0.060
10	960.000 - 1920.000	±0.070	±0.070

QUANTITY & VARIATION

DRN: [Signature]

CHKD: [Signature]

ENG: [Signature]

PROD: [Signature]

NEXT HIGHER ASSY.

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON: [Signature]

TITLE: CABLE, MODEM

SIZE CODE: D

NUMBER: BC03N-0-0

REV. D

MK

**REVISIONS**

REV.	CHANGE NO.	DATE	BY	DESCRIPTION
A	1	22 AUG 77	P. ALOISI	INITIAL DESIGN
B	2	27 NOV 77	P. ALOISI	REVISED TO ACCOMMODATE...
C	3	...	B. HARRINGTON	...
D	4	...	B. HARRINGTON	...



DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																									
				REF	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
B-MH-M8200-0-6	2		INTERPROCESSOR LINK UP	REF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	
D-UA-M8200-0-0	5		INTERPROCESSOR LINK UP	B	C	C	D	E	F	H	J	J	K	K	L	M	N	P											
K-PL-M8200-0-DBP	3		INTERPROCESSOR LINK UP	B	B	C	D	E	F	H	J	K	K	K	L	M	N	P											
K-PL-M8200-YA-DBP	3		INTERPROCESSOR LINK UP	B	B	C	D	E	F	H	J	K	K	K	L	M	N	P											
K-PL-M8200-YB-DBP	3		INTERPROCESSOR LINK UP	B	B	C	D	E	F	H	J	K	K	K	L	M	N	P											
K-PL-M8200-YC-DBP	3		INTERPROCESSOR LINK UP	B	B	C	D	E	F	H	J	K	K	K	L	M	N	P											
D-CS-M8200-0-1	22		INTERPROCESSOR LINK UP	B	C	C	D	D	E	F	H	H	H	J	J	K	L	M											
D-AH-M8200-0-5	3		INTERPROCESSOR LINK UP	B	C	C	C	C	D	E	F	F	F	F	F	F	F	INA											
		5011842	ETCH BOARD	C	D	D	D	D	D	D	E	E	E	E	E	E	E	F											
K-PC-M8200-0-DBG			P.C. DESIGN DATA BASE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F											
D-MD-5011842-0-0	5		DRILL & ETCH DRAWING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	H											

**NOTES:** FOR SPECIAL REVS SEE SHEET 2.

DATE	CHG NO.	REV.	REVISIONS																										
			A	A	B	C	D	E	F	H	H	H	J	K	L	M													
	00002																												
	00002A																												
8-76	00003																												
10-76	00004																												
1-77	00005																												
4-77	00006																												
5-77	00007																												
8-77	00008																												
8-77	00008A																												
8-77	00008B																												
12-77	MR009																												
3-78	00010																												
5-78	00011																												
8-78	MK012																												

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USED ON OPTION/MODEL		
DRN.	J. DEVIN	3-10-76
CHK'D	J. DEVIN	3-10-76
ENG.	R. LISEF	3-12-76
PROD.	R. WALL	3-12-76

TITLE			
INTERPROCESSOR LINK UP			
SIZE	CODE	NUMBER	REV.
B	DD	M8200-0	M
SHEET 1 OF 2			



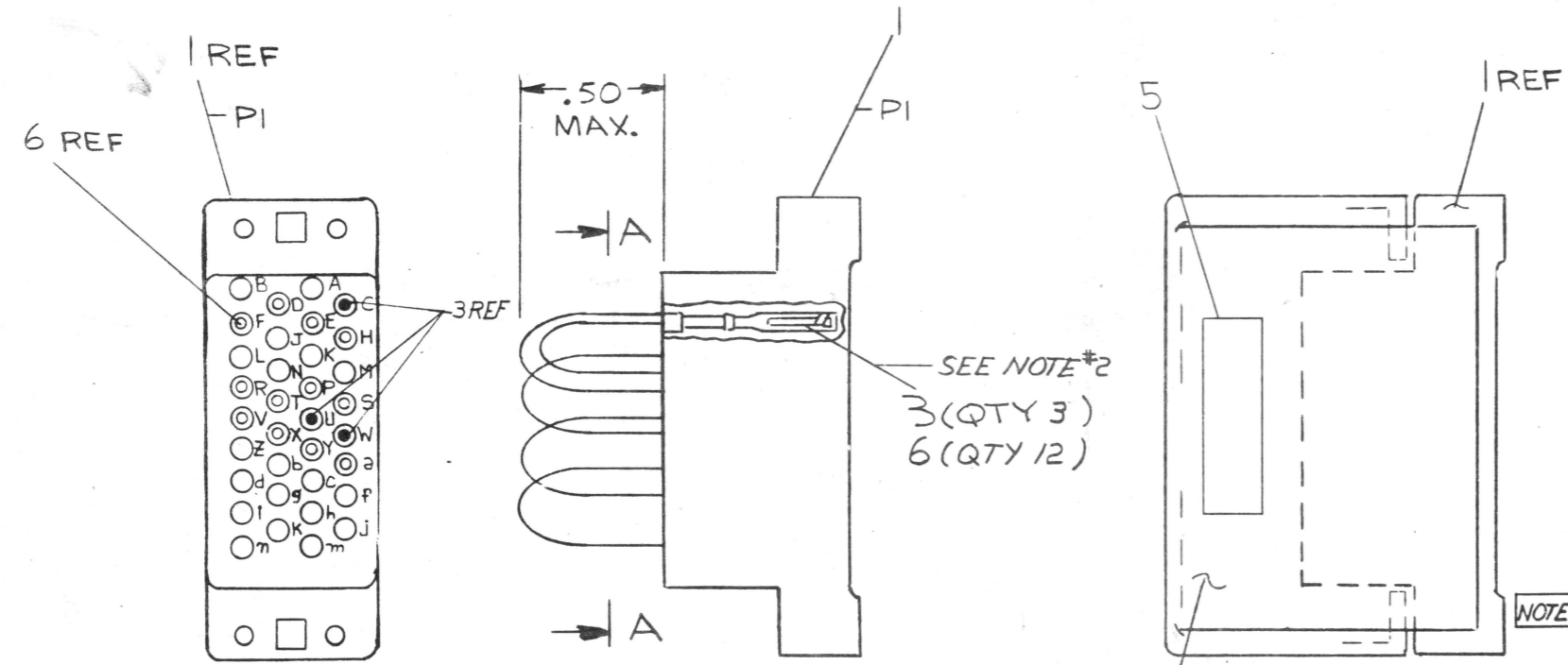




ITEM NO	DESCRIPTION		FROM			TO		
	AWG	COLOR	POINT	DESCRIPTION	WITH	POINT	DESCRIPTION	WITH
2	20	BLK	PI-U	AUX CLK +	3	PI-Y	TX CLK DIFF +	6
			PI-U			PI-V	RX CLK DIFF +	6
			PI-W	AUX CLK -	3	PI-a	TX CLK DIFF -	6
			PI-W			PI-X	RX CLK DIFF -	6
			PI-P	TX DATA DIFF +	6	PI-R	RX DATA DIFF +	6
			PI-S	TX DATA DIFF -	6	PI-T	RX DATA DIFF -	6
			PI-C	RTS	3	PI-D	CTS	6
			PI-C			PI-F	CDET	6
	20	BLK	PI-H	DTR	6	PI-E	DSR	6

NOTES:

- EACH PLANT MAY USE THE VARIATION OF (ITEM # 2) THAT IS OF HIGHEST AVAILABILITY. (I.E. USE THE COLOR YOU HAVE THE MOST OF - AWG IS IMPORTANT, NOT COLOR).
- CONTACT P.N. 1210290-01 IS TO BE USED WHERE ONLY ONE WIRE IS INSERTED IN THE CONNECTOR. CONTACT P.N. 1210290-00 IS TO BE USED WHERE TWO WIRES ARE INSERTED (I.E. AT PI-C, PI-U, AND PI-W)



VIEW A-A  
REAR VIEW  
HOOD (ITEM #4)  
REMOVED

SIDE VIEW  
HOOD (ITEM #4)  
REMOVED

NOTE #2	12	SOCKET, CONTACT (20 AWG)	1210290-01	6
	1	LABEL	9008473	5
	1	HOOD	1213032-0-0	4
NOTE #2	3	SOCKET, CONTACT (14 AWG)	1210290-00	3
NOTE #1	AWR	WIRE #20 AWG, BLK	9107460-00	2
	1	CONNECTOR BODY 34 PIN	1213033-0-0	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
SURFACE QUALITY IN	MEDIUM <input type="checkbox"/>	OVER 0 TO 0.2 ±.004
	MICROMETRES <input checked="" type="checkbox"/>	OVER 0.2 TO 1.2 ±.008
		OVER 1.2 TO 4.0 ±.012
		OVER 4.0 TO 12.0 ±.016
		OVER 12.0 TO 40.0 ±.024
		OVER 40.0 TO 80.0 ±.04
		OVER 80.0 TO 160.0 ±.063
		OVER 160.0 TO 320.0 ±.1

REV.	CHANGE NO.	DATE	BY	REASON
A	1	15 July 77	P. ALDISI	
B	2	13 Feb 78	R. HARRINGTON	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: #

DRN: [Signature]

CHK'D: [Signature]

ENG. [Signature]

PROJ. ENG. [Signature]

PROD. [Signature]

NEXT HIGHER ASSY.

FIRST USED ON: EMC11-FA

TITLE: CONNECTOR, TEST V.35/DDS

SIZE: C

CODE: IA

NUMBER: H3250-0-0

REV.: B

SHEET 1 OF 1