

*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

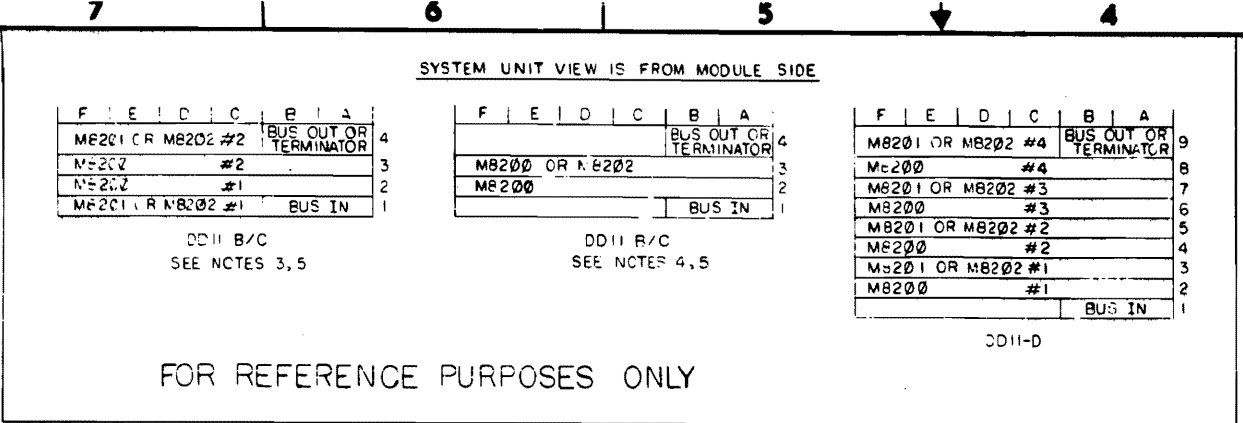
SHEET 3 OF 3

SIZE CODE
 B DD

NUMBER
 DMC11-0

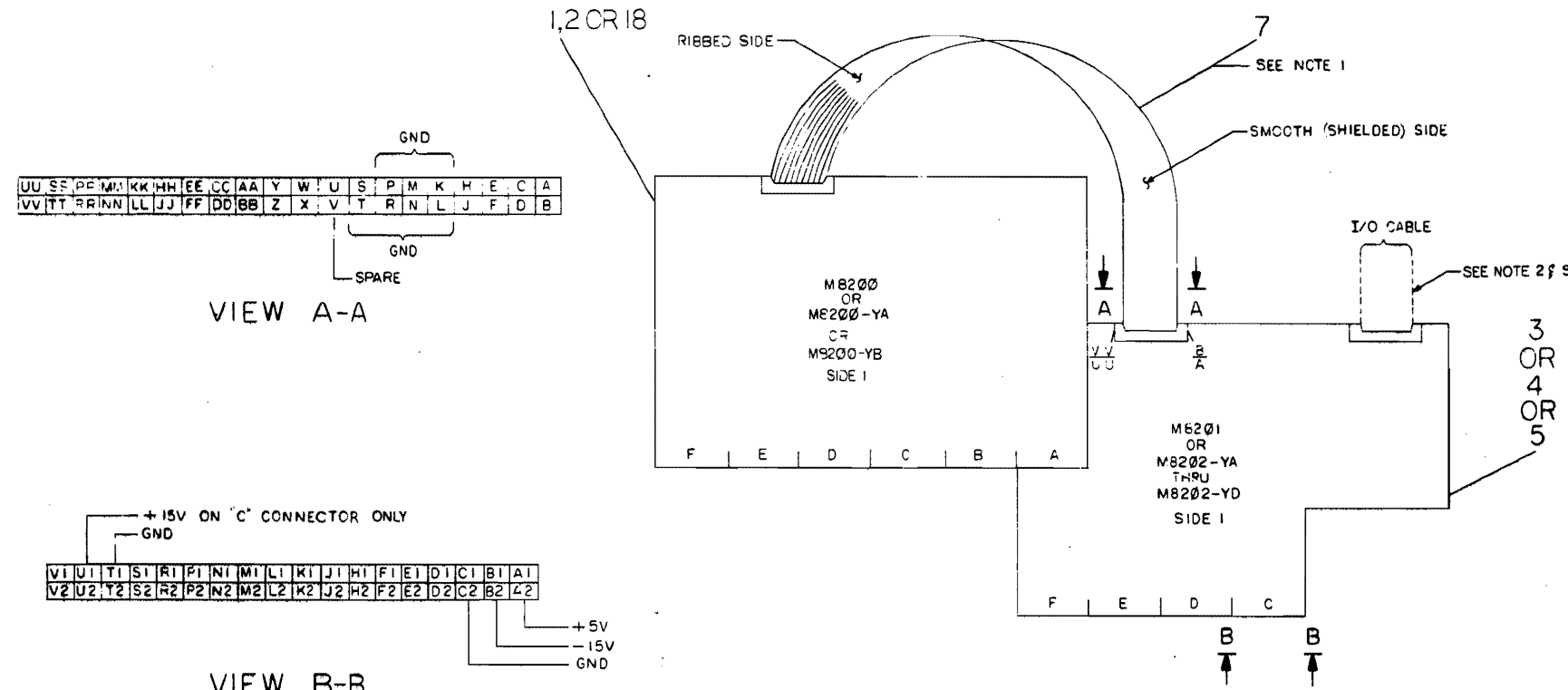
R V
 D

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NOTES:

- IF CABLE BC085 (ITEM #7) IS NOT AVAILABLE USE I/O CABLE C-1A-BC085-1-7.
- I/O CABLE (ITEM NO'S 6 OR 8) CAN CONSIST OF ANY VARIATION.
- IF LESS THAN 2 1/2 INCH MODULES ARE IN SLOTS A1, B1 AND/OR IN THE LAST SLOT.
- IF GREATER THAN 2 1/2 INCH MODULES ARE IN SLOTS A1, B1 AND/OR IN THE LAST SLOT.
- DDII-B MUST BE REV E OR LATER.
- M8200 MODULES (ITEM NO'S 1, 2 & 3) MAY BE USED WITHOUT 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 M8201/2 (ITEM NO'S 3, 4 & 5) MAY EXCEED REGULATOR RATINGS UNLESS THE DDII'S ARE POSITIONED TO SPLIT THE LOAD BETWEEN ADJACENT REGULATORS.
- INSTALLATION NOTE
THE NPR GRANT JUMPER (CA1 TO CB1) MUST BE REMOVED BEFORE INSTALLING THE M8200 (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 BC050 (ITEM #9) USE THE M325 TEST CONN (ITEM #10) OR M8201 WITH BC052 USE M325 AND WHEN USING THE M8222 (ITEM NO'S 4 & 5) USE THE CONN. RECEPTACLE (ITEM #9).
- ASTERISKS (*) INDICATE THE BC03N (ITEM #11) IS OPTIONAL EQUIPMENT.



REF	QTY	DESCRIPTION	DWG PART NO.	ITEM NO.
		CONN. TEST H3250	D-UA-H3250	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-B-2	18
REF		DMCII SHIPPING LIST	A-PL-DMCII-MD-7	17
REF		DMCII SHIPPING LIST	A-PL-DMCII-MA-7	16
REF		DMCII SHIPPING LIST	A-PL-DMCII-FA-7	15
REF		DMCII SHIPPING LIST	A-PL-DMCII-CA-7	14
		DMCII SHIPPING LIST	A-PL-DMCII-AD-7	13
REF		DMCII SHIPPING LIST	A-PL-DMCII-AA-7	12
		CABLE. MODEM	C-1A-BC03N-A0-0	11
		H325 TEST CONNECTOR	D-CS-H325-0-1	10
		CONNECTOR RECEPTACLE	12-252E-00	9
		CABLE. MODEM BC052	D-UA-BC052-25-0	8
		CABLE. I/O BC085	C-1A-BC085-1-0	7
		CABLE. MODEM BC050	C-1A-BC050-25-0	6
		IPL SLU HI	C-1A-M8202-YD-0	5
		IPL SLU HI	D-1A-M8202-YA-0	4
		IPL SLU LOW	D-1A-M8201-2-0	3
		INTERPROCESSOR LINK MICROPROCESSOR	D-1A-M8200-YA-3	2
		INTERPROCESSOR LINK MICROPROCESSOR	D-1A-M8200-2-0	1

1		IPL SLU HI	D-UA-M8202-YC-0	28
1		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

REV.	DATE	BY	CHKD	DESCRIPTION
A	10/10/77	R. LISEE		REVISED TO ADD 12
B	11/10/77	R. LISEE		REVISED TO ADD 13
C	12/10/77	R. LISEE		REVISED TO ADD 14
D	1/10/78	R. LISEE		REVISED TO ADD 15

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DESCRIPTION: INTERPROCESSOR LINK

DWG PART NO.: DMCII-3-0

ITEM NO.: 1

SCALE: 1 OF 3

SHEET: 1 OF 3

DATE: 10/10/77

BY: R. LISEE

CHKD: [Signature]

ENG: [Signature]

PROJ. ENG: [Signature]

PROD. [Signature]

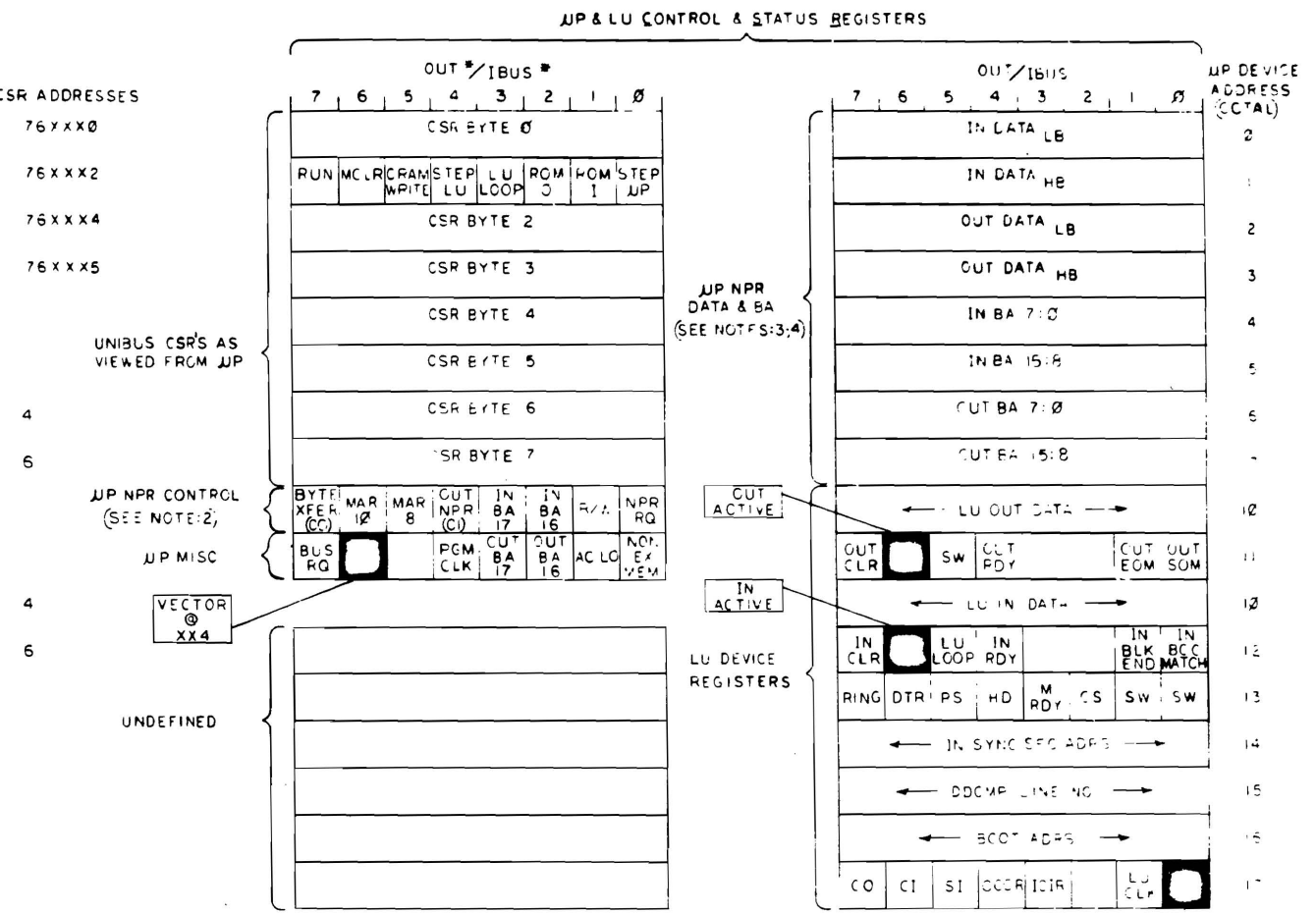
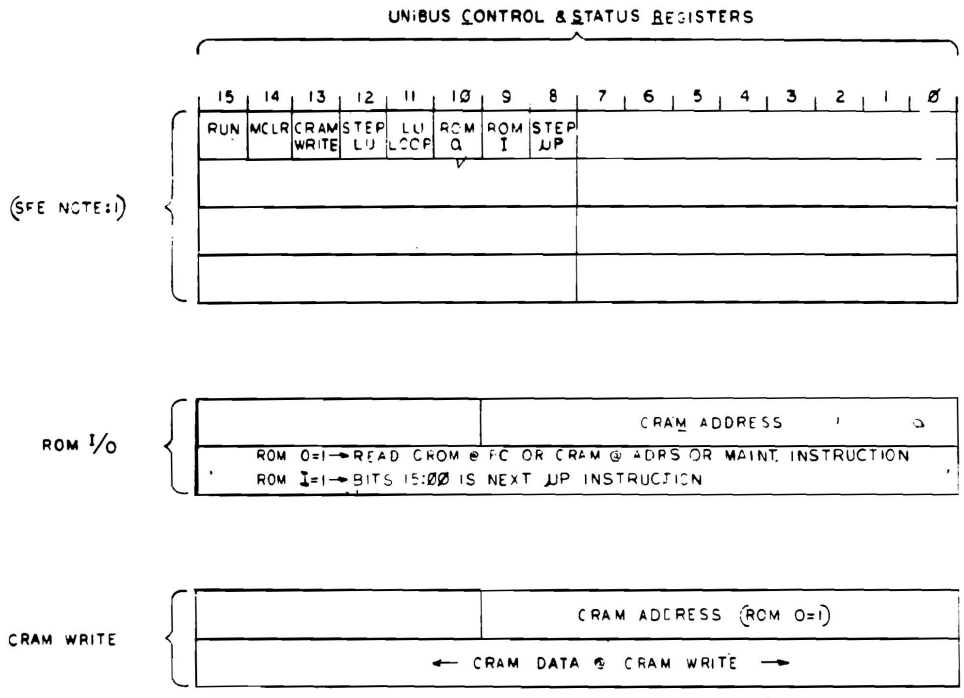
SIZE: D

CODE: UA

NUMBER: DMCII-3-0

REV: D

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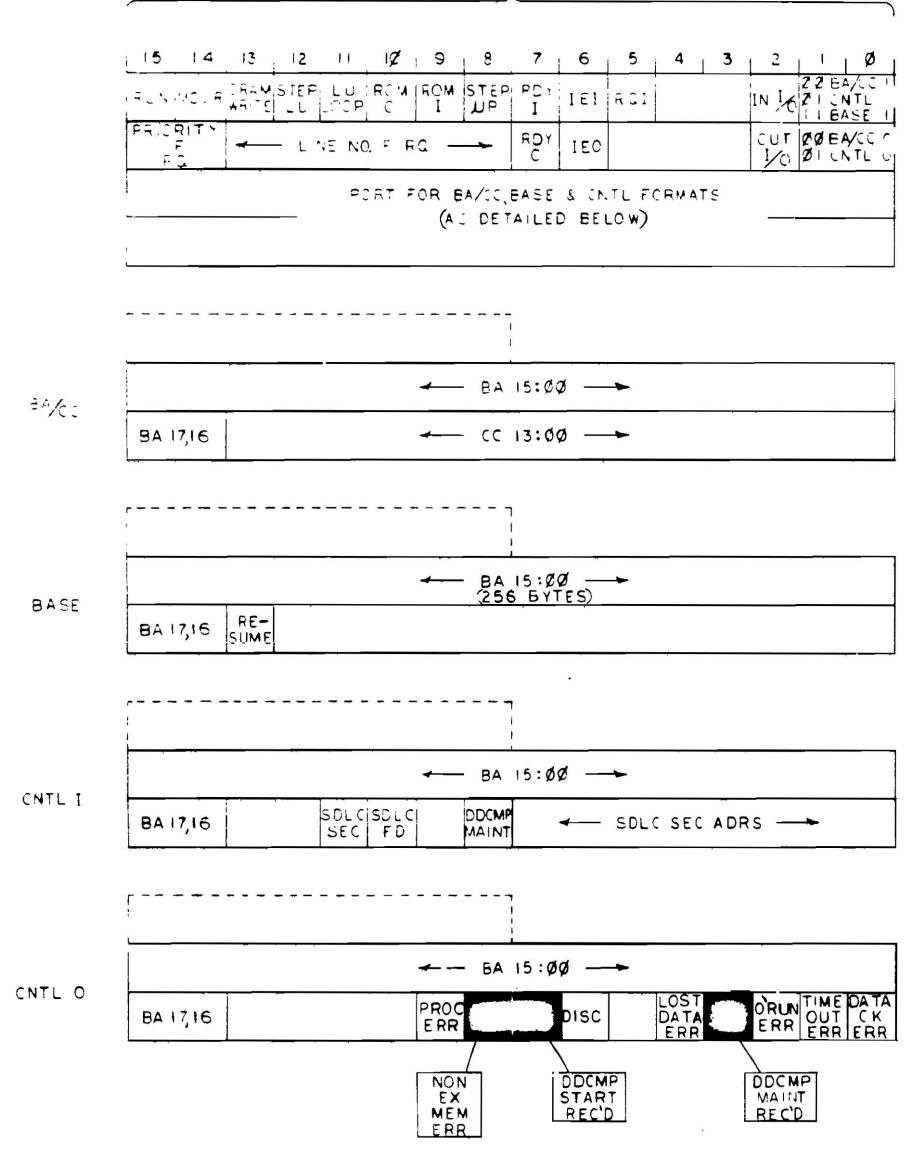
- NOTES:1. UNIBUS CSR REGISTERS ARE RAM. PROGRAM FUNCTIONS MAY BE ASSIGNED TO BITS AT RANDOM EXCEPT FOR BYTE ONE. BYTE ADDRESS ONE HAS GATES AND FLIP FLOPS WHICH IMAGE THE RAM AND FUNCTIONS DIRECTLY WITH THE LOGIC FOR MAINTENANCE FUNCTIONS. BYTE ADDRESSES 4,5,6,7 ALSO HAS A FLIP FLOP IMAGE BUT IS ONLY 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.
2. MAR 8 AND MAR 10 BIT FUNCTIONS ARE FOR M8204 ONLY.
3. NPR DATA AND BA REGISTERS ARE RAM; HOWEVER, ADDRESS ASSIGNMENTS ARE HARDWIRED AND CANNOT BE RE-DEFINED.
4. 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.

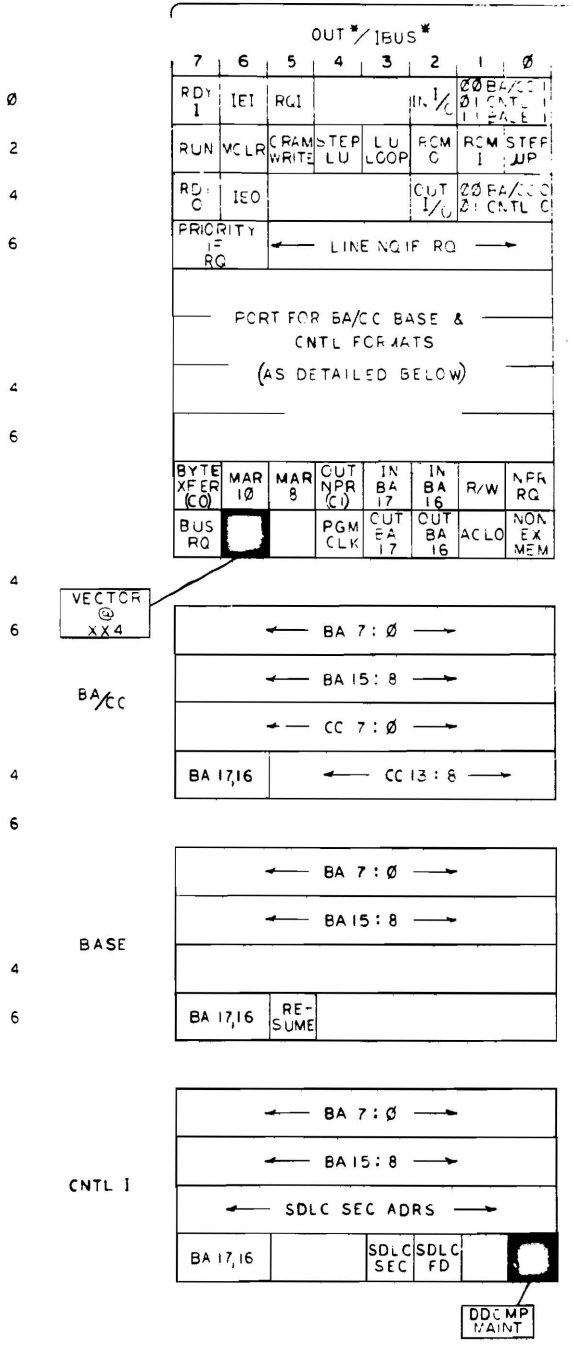
TITLE	INTERPROCESSOR LINK	SIZE	CODE	NUMBER	REV.
	JP	D	JA	DMC11-7-7	0
SCALE	SHEETS	OF			
	3				

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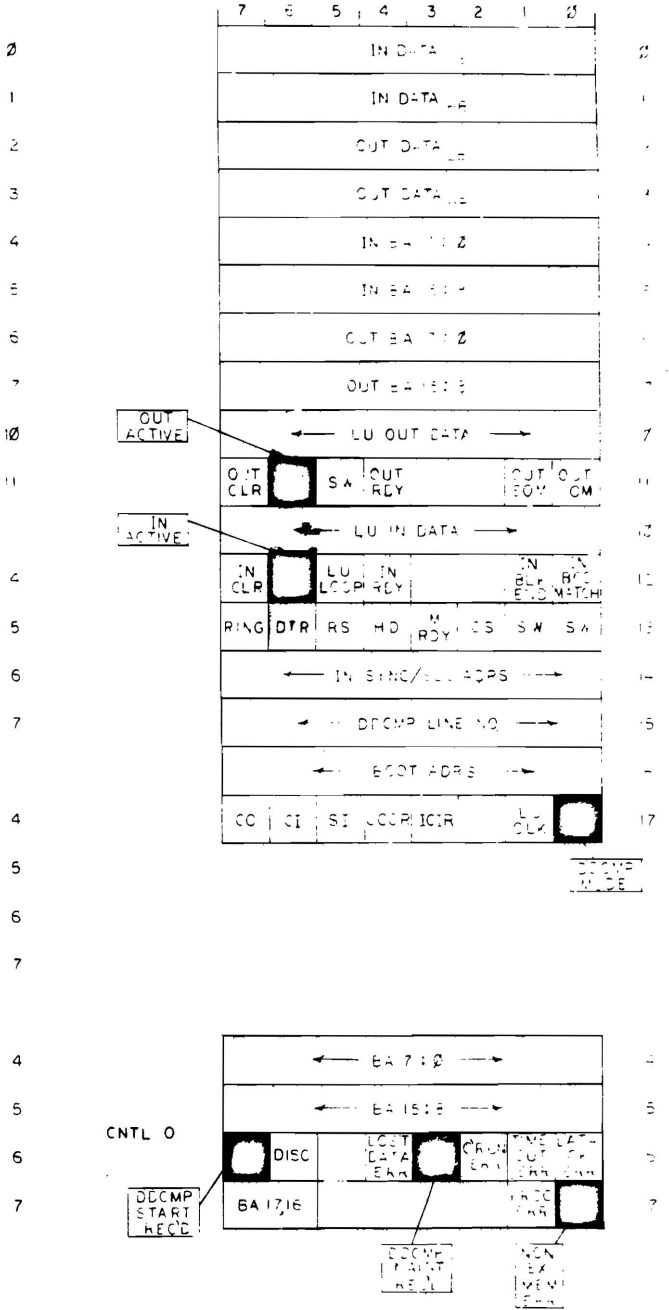
UNIBUS CONTROL & STATUS REGISTERS



UP & LU CONTROL & STATUS REGISTERS



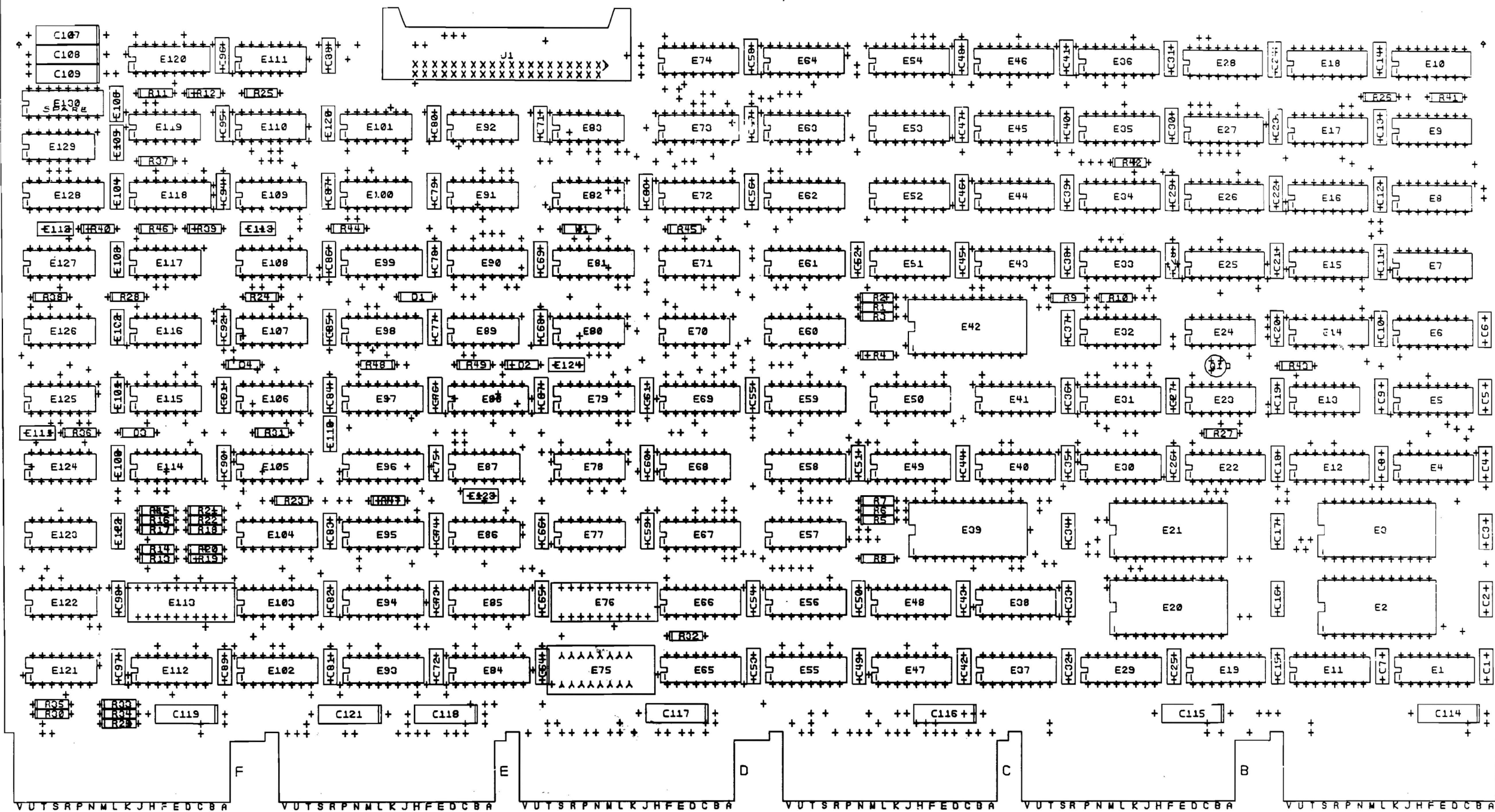
CLT IBUS



REVISIONS		
CHK	CHANGE NO	REV

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COMPONENT SIDE VIEW



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

CHK	CHANGE	NO	REV

ETCH REV. F-P1
P.C. DESIGN DATA BASE REV. F

SIGNATURES		DATE
DRN. D. Dangelstein		5-10-78
CHK'D. M. J. ...		11-11-78
ENG. A. ...		11-28-78
PROJ. ENG. R. ...		12-28-78
PROD. ...		

TITLE INTERPROCESSOR LINK UP

SCALE 2X	SIZE CODE	NUMER	REV
SHT. 10F3	D	UA M8200-0-0	P

digital

UA M8200-0-0

MK 1 MS#

OSX4500EFH PLWPHB

E120

E111

E101

E74

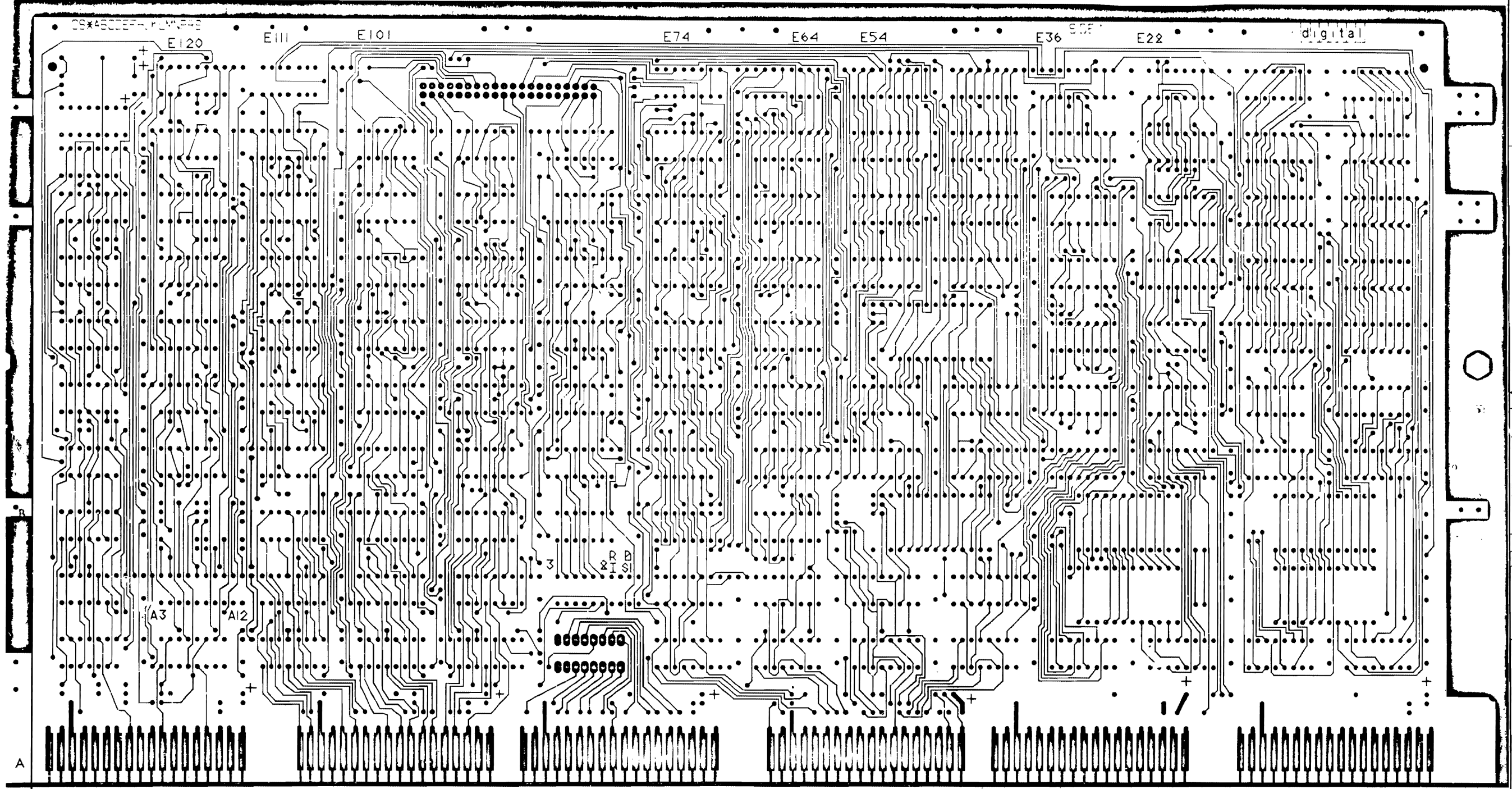
E64

E54

E36

E22

digital



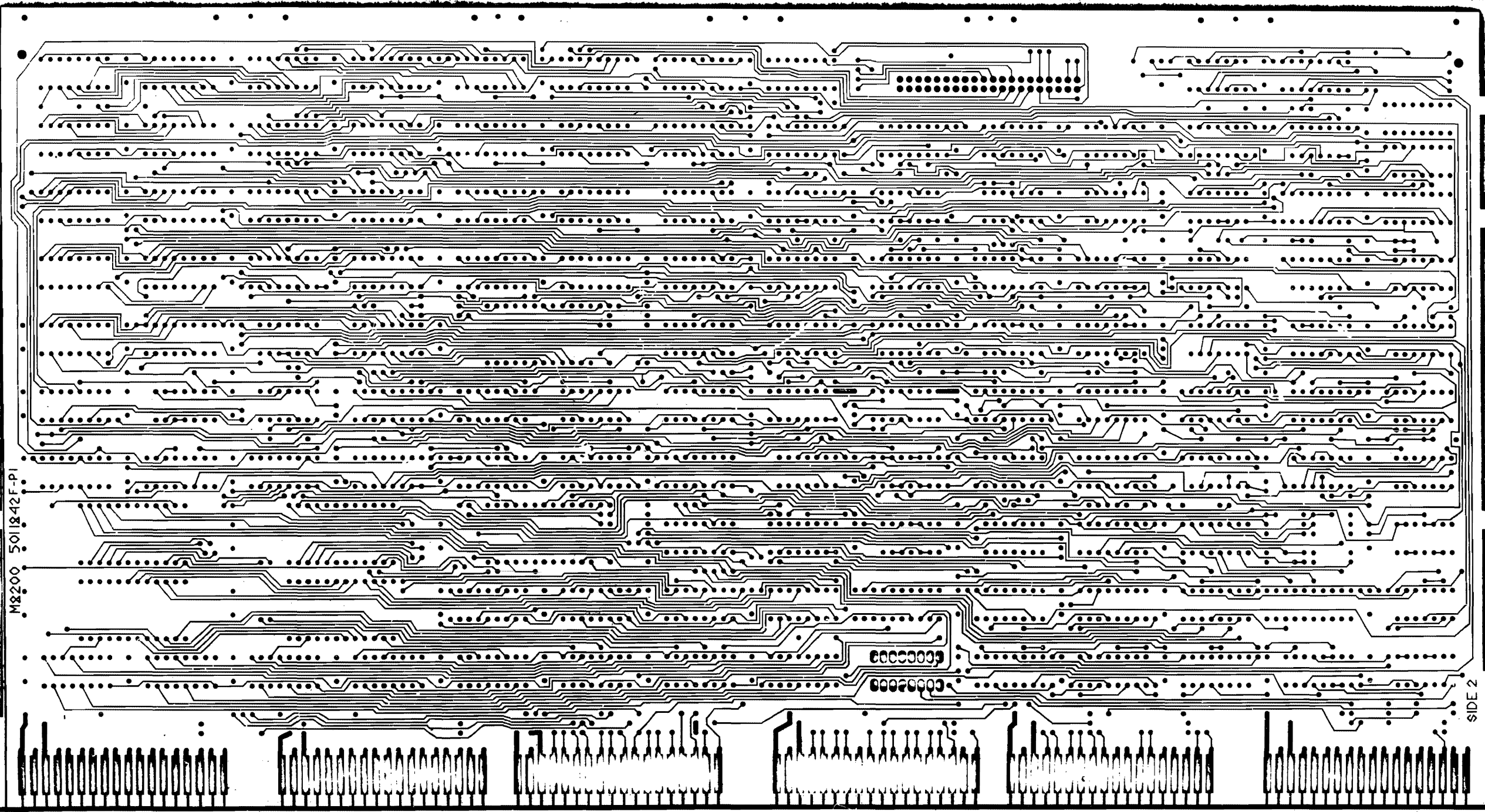
D
C
P
B
A

REVISED	DATE

2 DIA M8200-0-0

HA34AJ

L40



M8200 501842F-PI

SIDE 2

DIA M8200-0-0

REVISIONS		
NO.	CHANGE NO.	REV.

TITLE	INTERPROCESSOR LINK UP	SIZE	00001	NUMBER		REV.	
SCALE	2X	SHEET	3 OF 3	DIA	M8200-0-0		P

8 7 6 5 4 3 2 1 MK I

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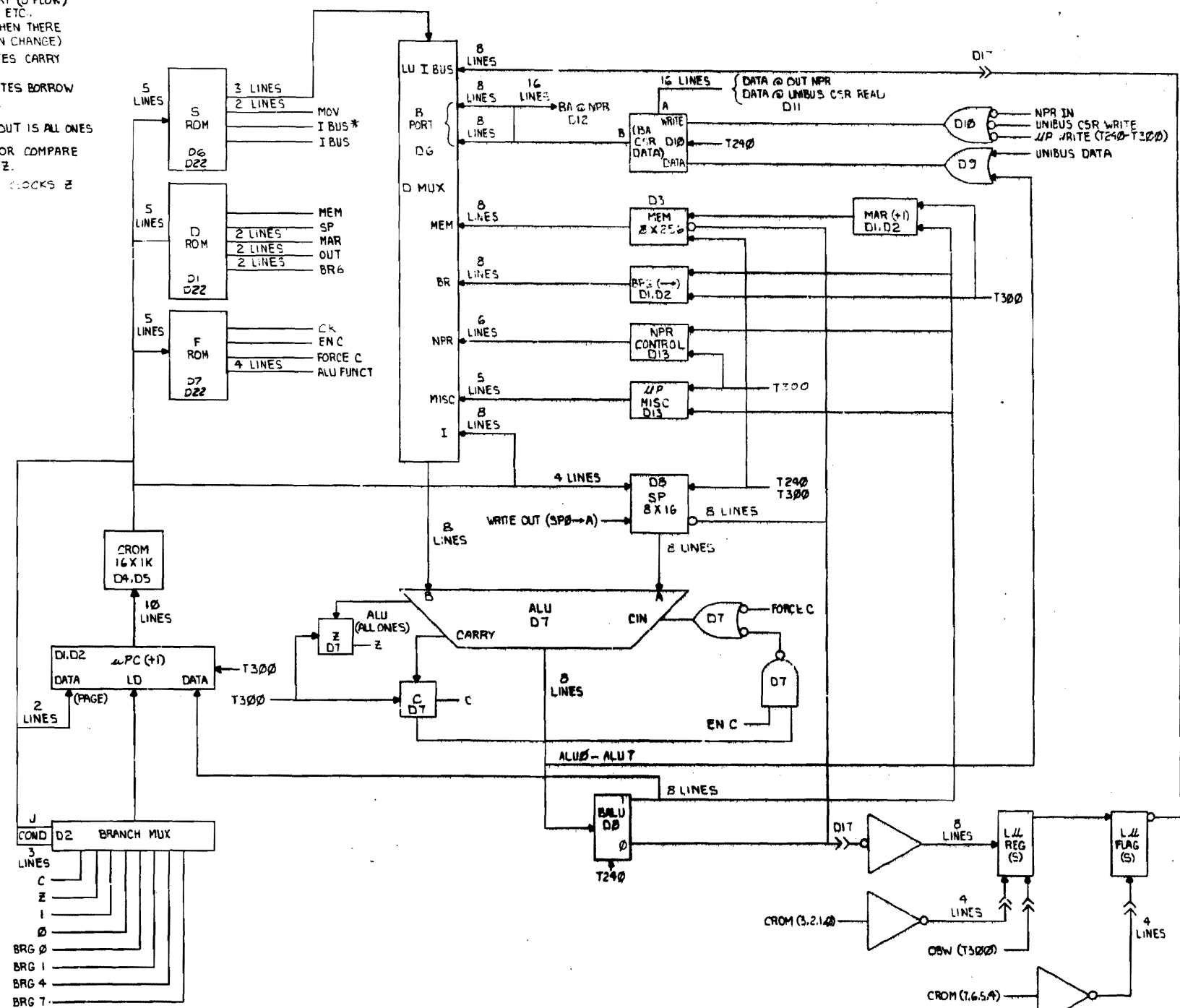
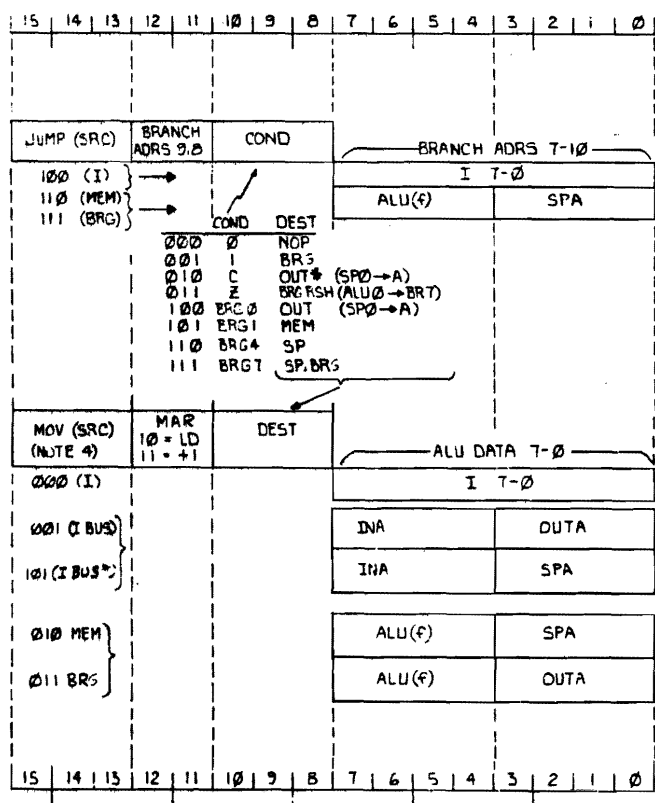
NOTES: 1. C WILL ASSERT FOR A CARRY (O'FLOW) DURING ANY ADD, INC, PLUS, ETC. AND FOR A SUB, DEC, ... WHEN THERE IS NOT A BORROW OR (SIGN CHANGE) ... ADD: C ↑ INDICATES CARRY OR O'FLOW SUB: C ↓ INDICATES BORROW OR SIGN CHANGE

2. Z WILL ASSERT WHEN ALU OUT IS ALL ONES

3. USE 2'S COMP SUB (111) FOR COMPARE FOLLOWED BY BRANCH ON Z.

4. MOV INSTRUCTION ALWAYS CLOCKS Z

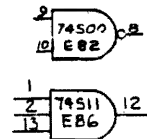
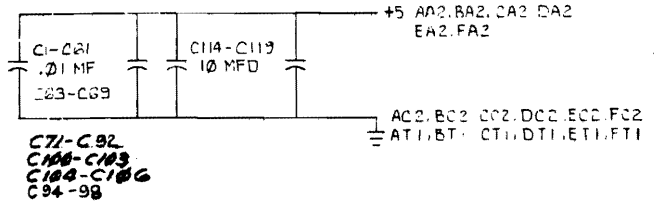
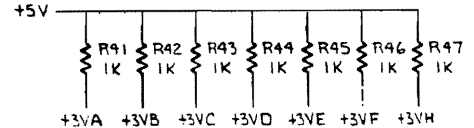
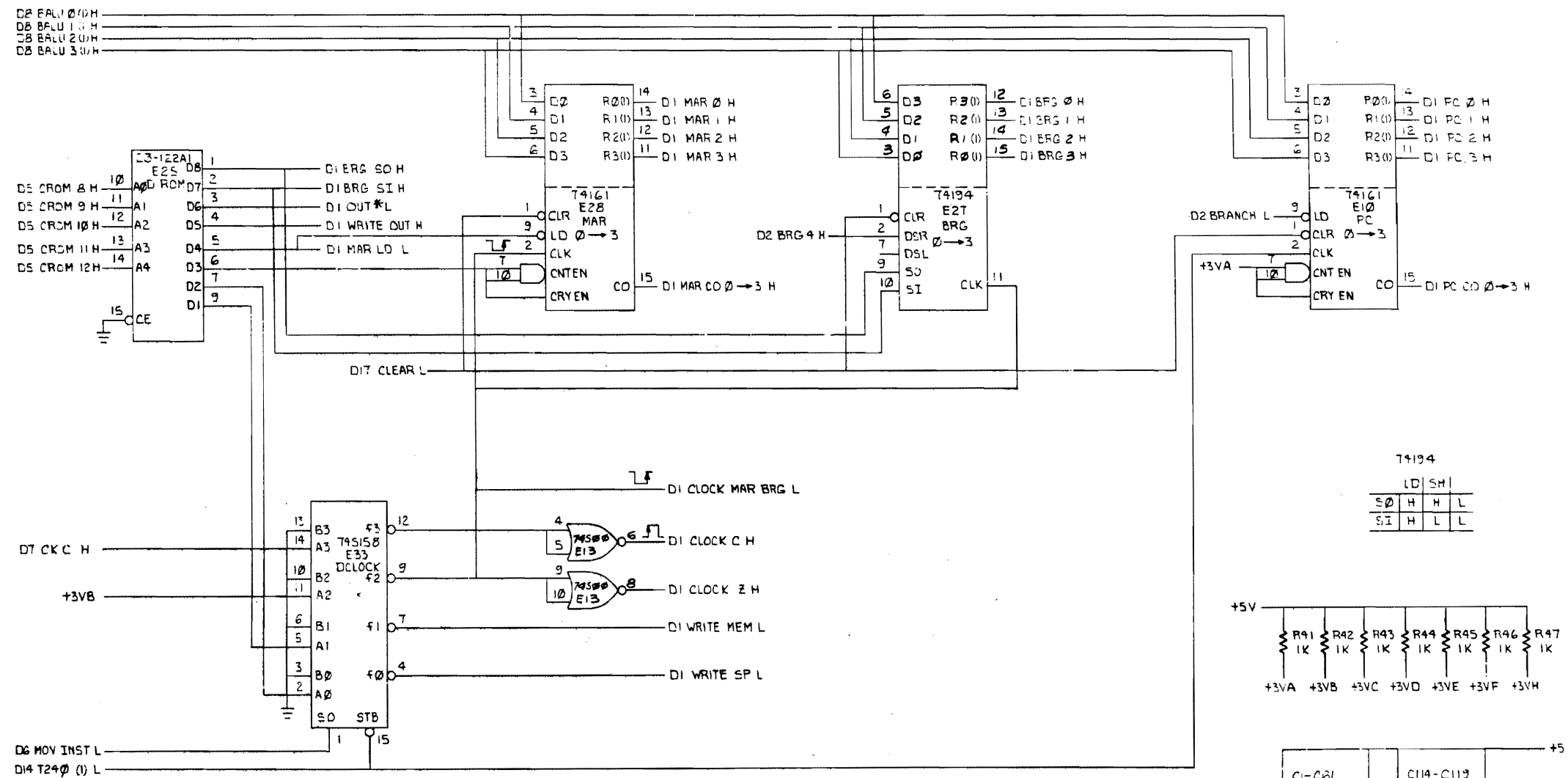
	ALU (F)	CODE
SUB 2'S COMP	(A-B)	1110
1'S COMP SUB	(A-B-1)	1111
ADD	(A+B)	0000
ADD W/C	(A+B-C)	0001
SUB W/C	(A-B-C)	0010
INC A	(A+1)	0011
APLUS C	(A.C)	0100
2 A	(A.A)	0101
2A W/C	(A.A-C)	0110
DEC A	(A-1)	0111
SEL A	(A)	1000
SEL B	(B)	1001
A OR B	(A+B)	1010
A AND B	(AB)	1011
A OR B	(A+B)	1100
A XOR B	(A⊕B)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



REV.	CHG.	NO.	REV.	NO.	DATE	BY
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15

DATE	7-11-75	FIRST USED ON	EMC 11
REV.	1	TITLE	INTERPROCESSOR LINK
SIZE	D	NUMBER	M8200-W-1
CODE	CS	REV.	M
DIST.			

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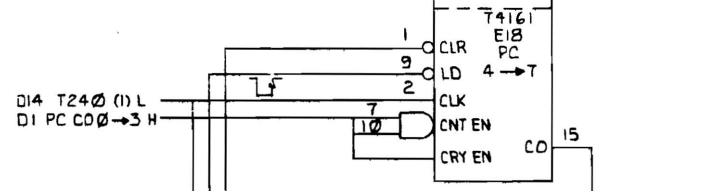
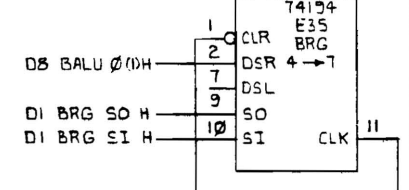
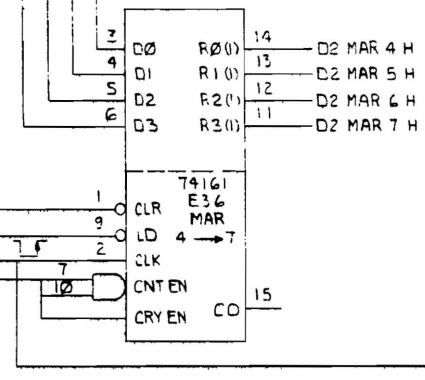
REVISIONS		
CHK	CHANGE NO	REV

(MAR, BRG, PC 0-3)		TITLE	INTERPROCESSOR LINK	SIZE CODE	NUMBER	REV.
ILL					DCS M8200-0-1	M
SCALE	1:1	SHEET	2	OF	22	DIST.

D
 C
 B
 A
 M8200-0-1 M

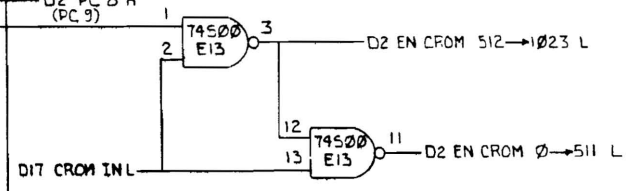
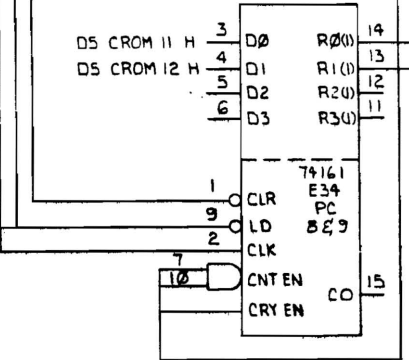
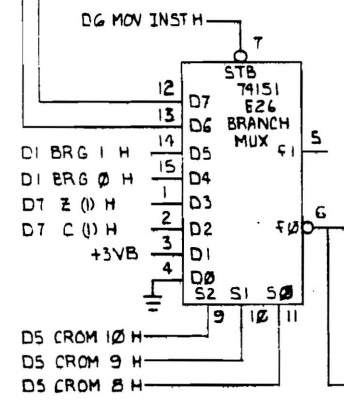
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D5 BALU 4 (0) H
 D5 BALU 5 (0) H
 D5 BALU 6 (0) H
 D5 BALU 7 (0) H



74151
BRANCH MUX

9	10	11	
H	H	H	BRG 7
H	H	L	BRG 4
H	L	H	BRG 1
H	L	L	BRG 0
L	H	H	Z
L	H	L	C
L	L	H	ALLWAYS
L	L	L	NEVER



CHK	CHANGE NO	REV

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

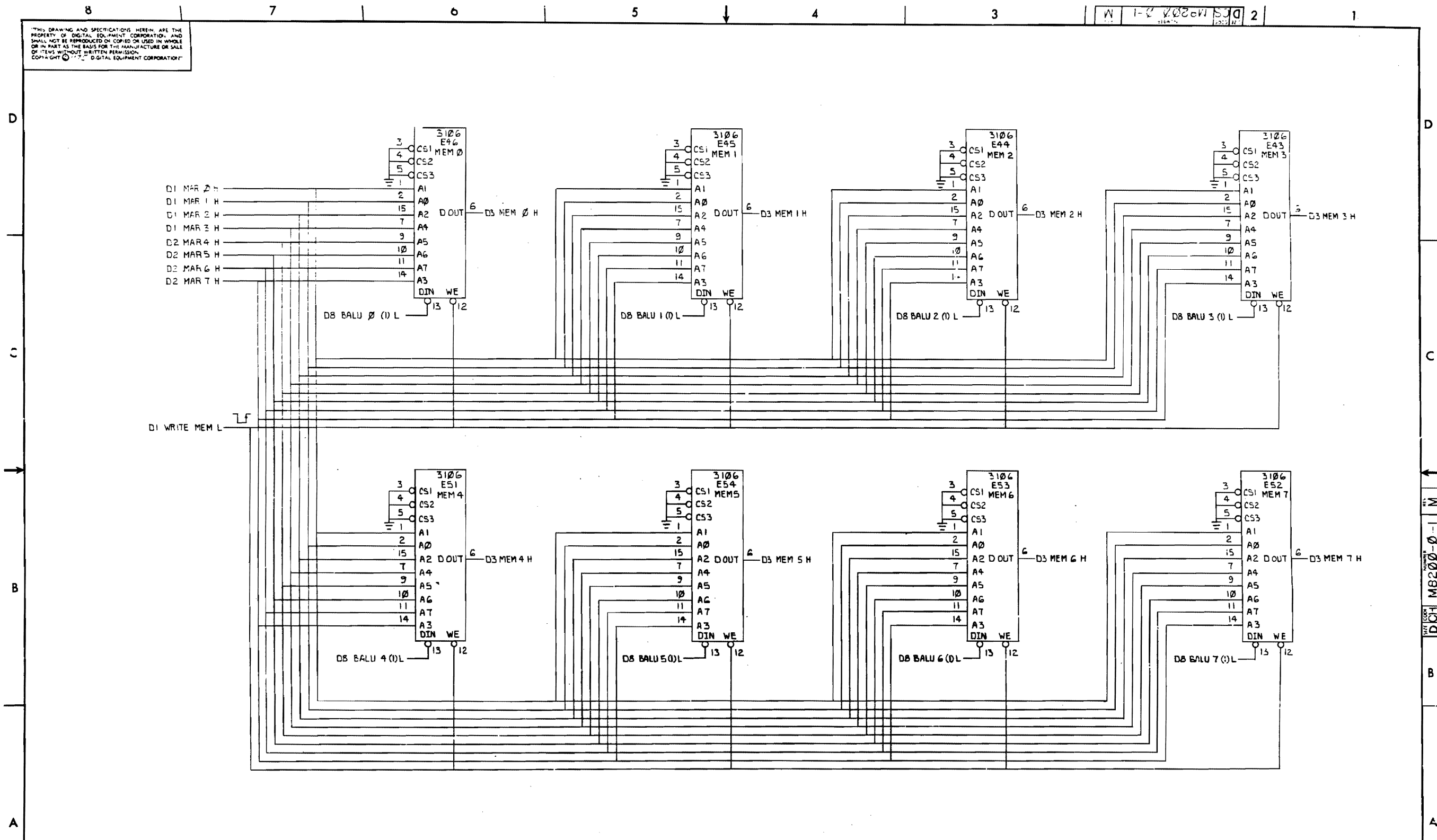
(MAR, BRG 4-7, PC 4-9)

TITLE INTERPROCESSOR LINK
 SIZE CODE (D2) DCS
 NUMBER ME200-0-1
 REV. M

SCALE 1/1 SHEET 3 OF 22 DIST. MK

REV. M ME200-0-1 M

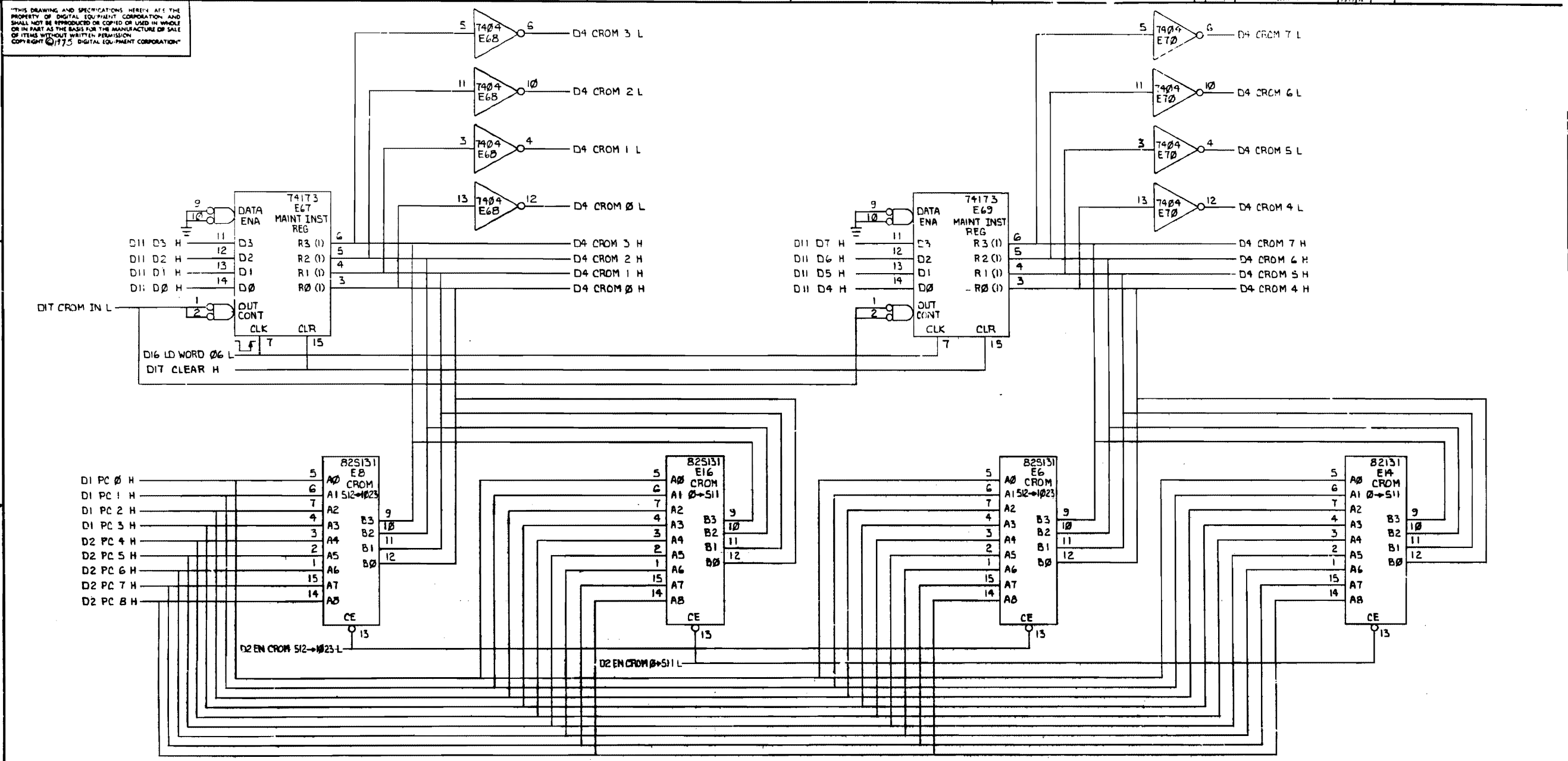
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REVISIONS		
CHK	CHANGE NO.	REV

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

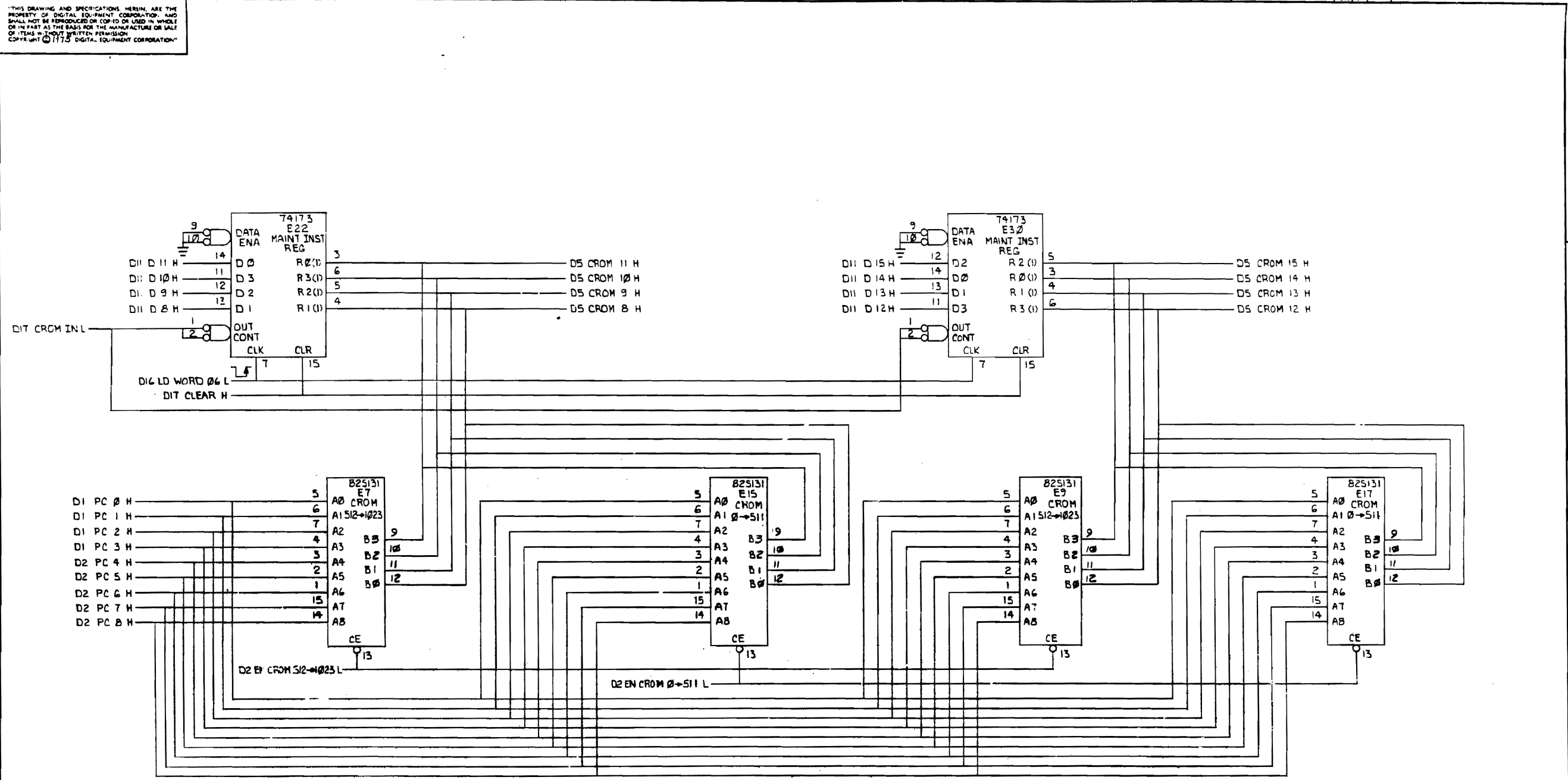
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERPROCESSOR LINK		SIZE 000	NUMBER	REV.
ILP		(04) DCS	M8200-0-4	
SCALE	SHEET 5 OF 22	DIST		

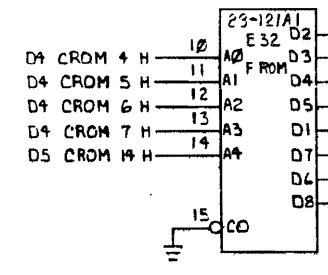
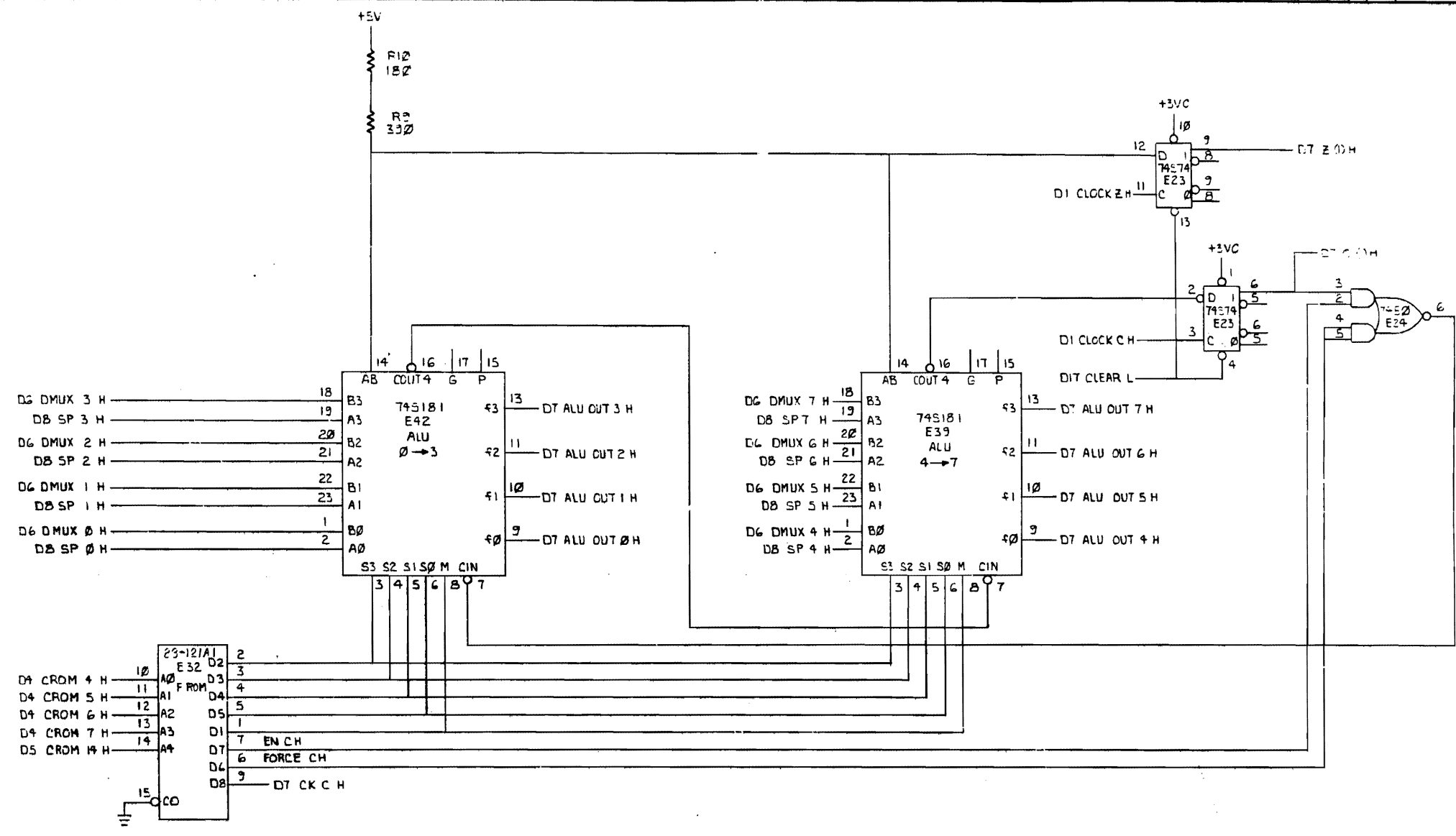
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REVISIONS		
CHK	CHANGE NO.	REV.

D
C
M
A

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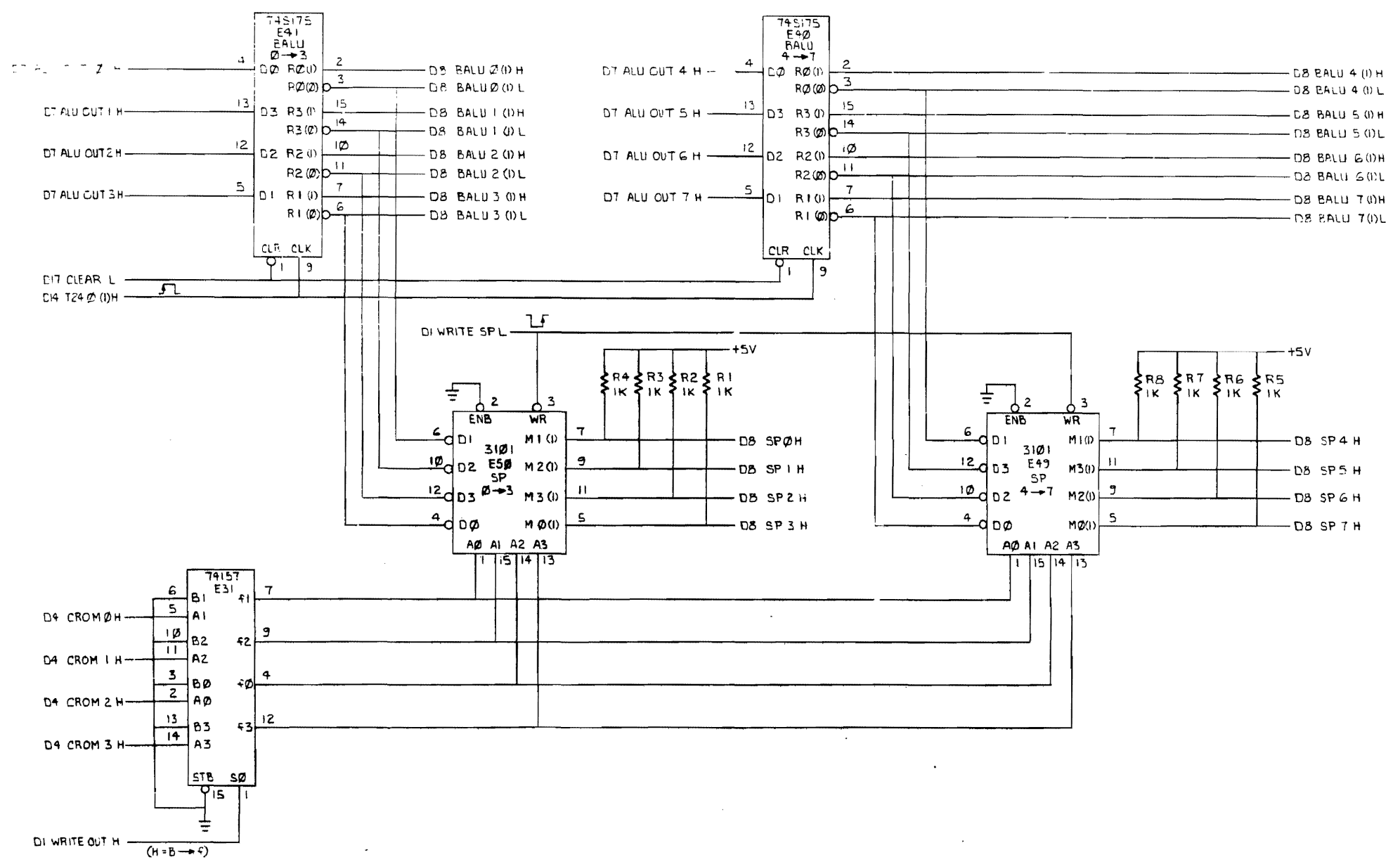


M8200-0-1 M

REVISIONS		
CHK	CHANGE NO.	REV.

(ALU 0-7, C, Z, FROM)

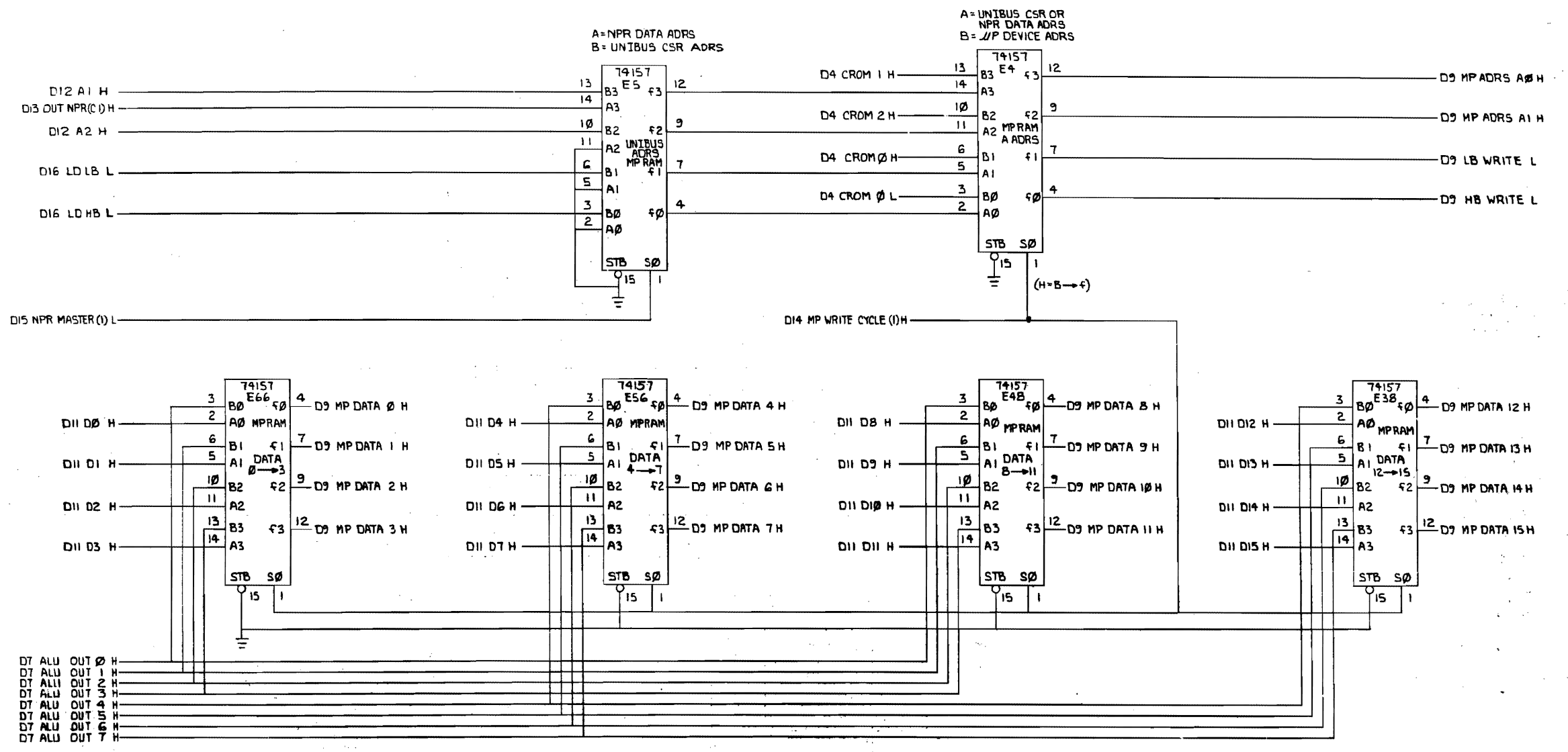
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REVISIONS		
CHK	CHANGE NO	REV

(BALU 0-7, SP)		TITLE	SIZE	COUL	NUMBER	REV
INTERPROCESSOR LINK		DCS	M6200-0-1	M		
SCALE	SHEET	OF	DIST.			
++	9	22				

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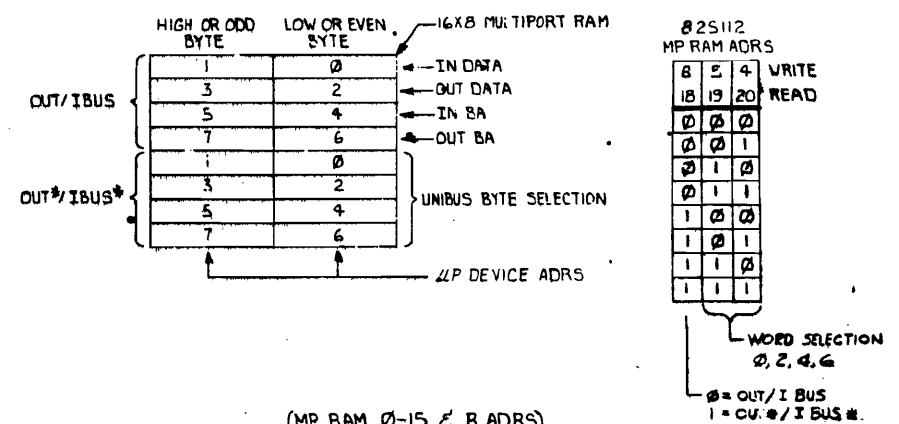
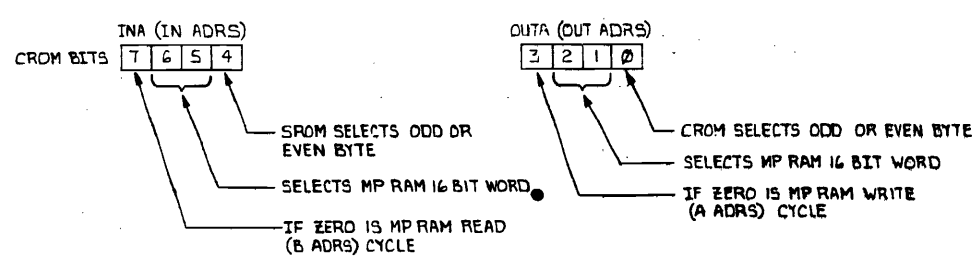
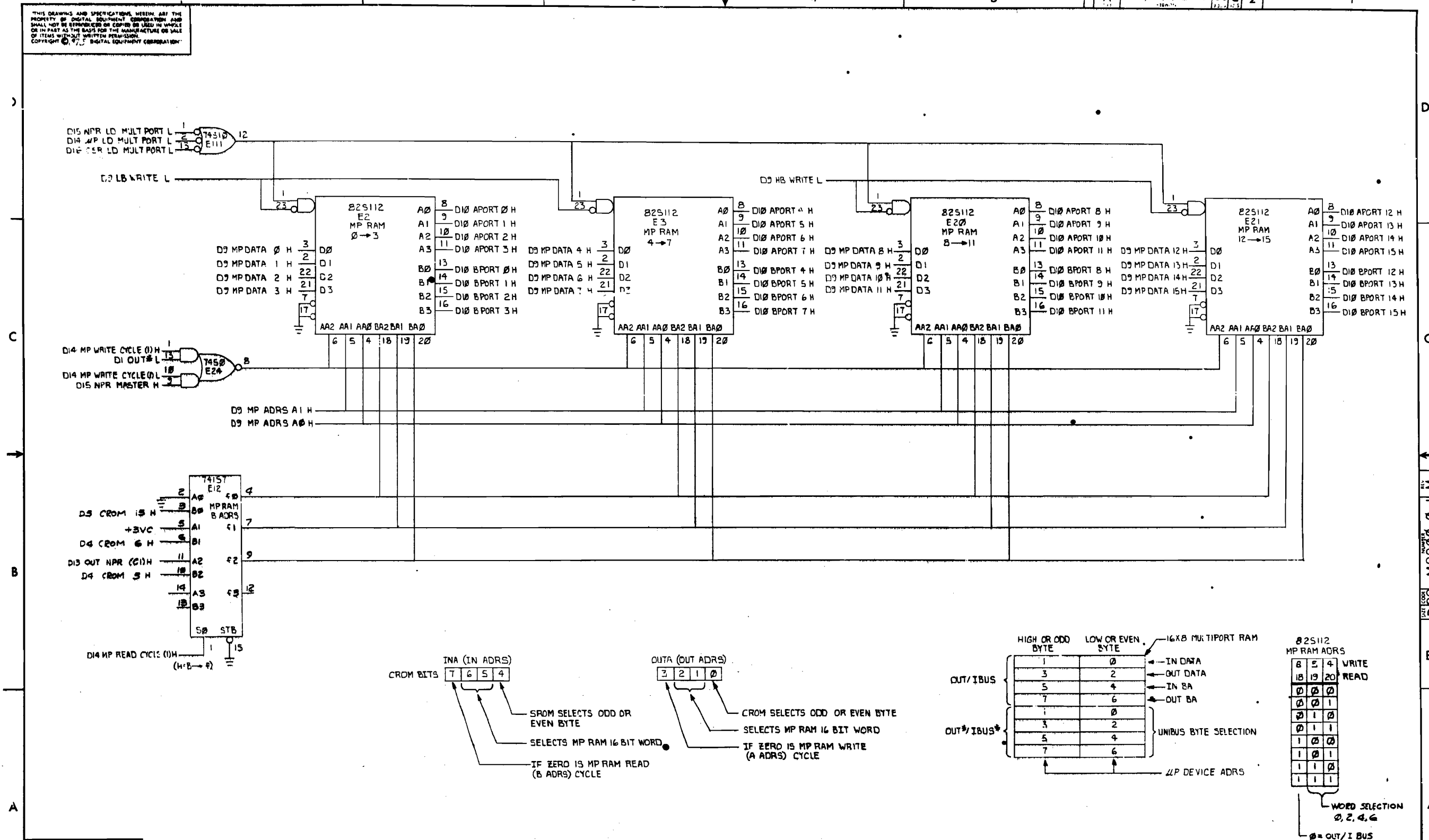
REVISIONS		
CHK	CHANGE NO.	REV.

(MP RAM 'A' ADRS & DATA)

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

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1 V-772-W 2 1

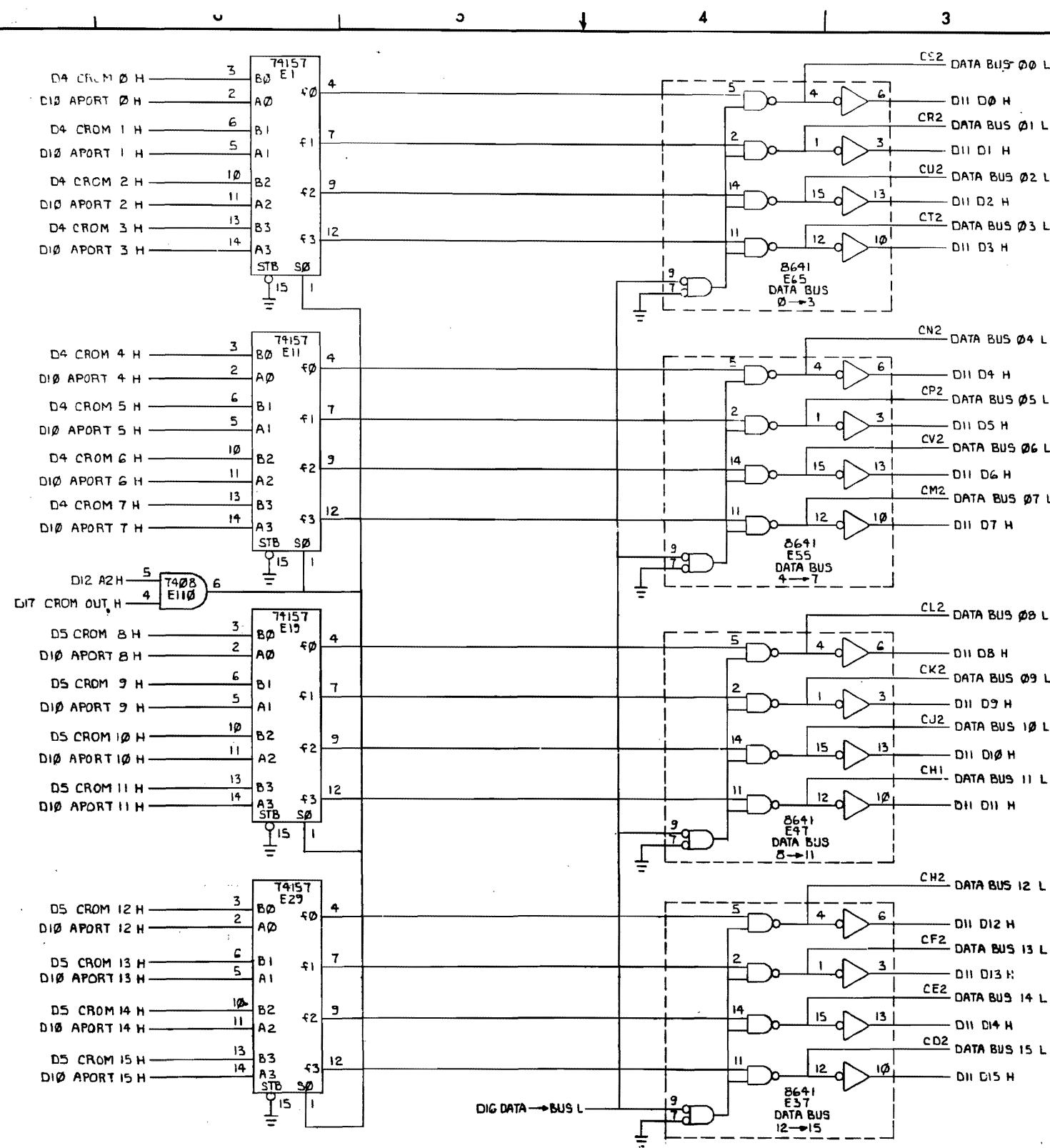


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERPROCESSOR LINK		SIZE CODE (D10)	NUMBER DCS	REV. M
SCALE ++	SHEET 11	OF 62	DIST.	

DCS M8200-0-1 M

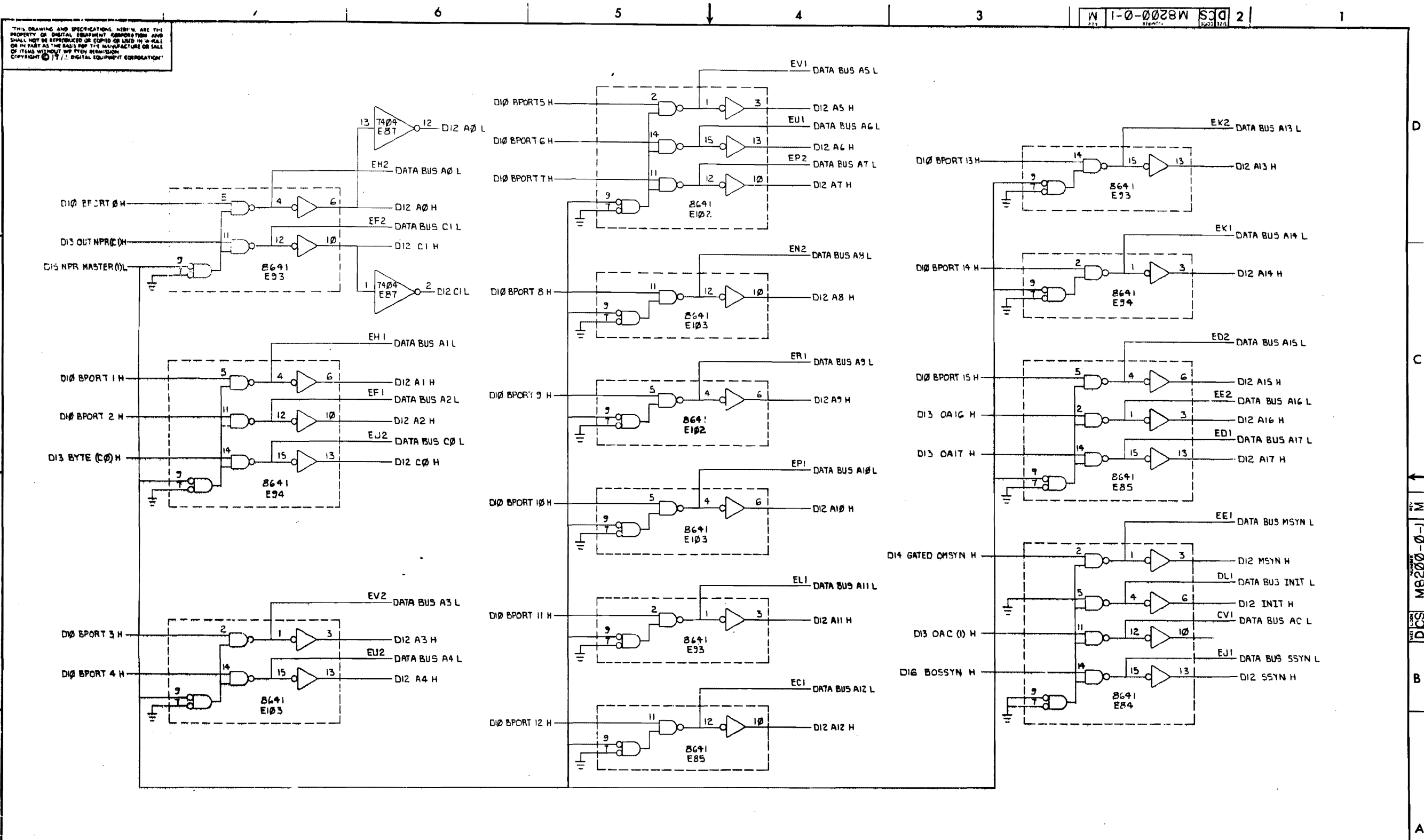
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REVISIONS		
CHK	CHANGE NO.	REV.

(DATA → BUS 0-15)		TITLE INTERPROCESSOR LINK		SIZE DCS	NUMBER M8200-01-1	REV. M
SCALE	SHEET 12 OF 22	MK				

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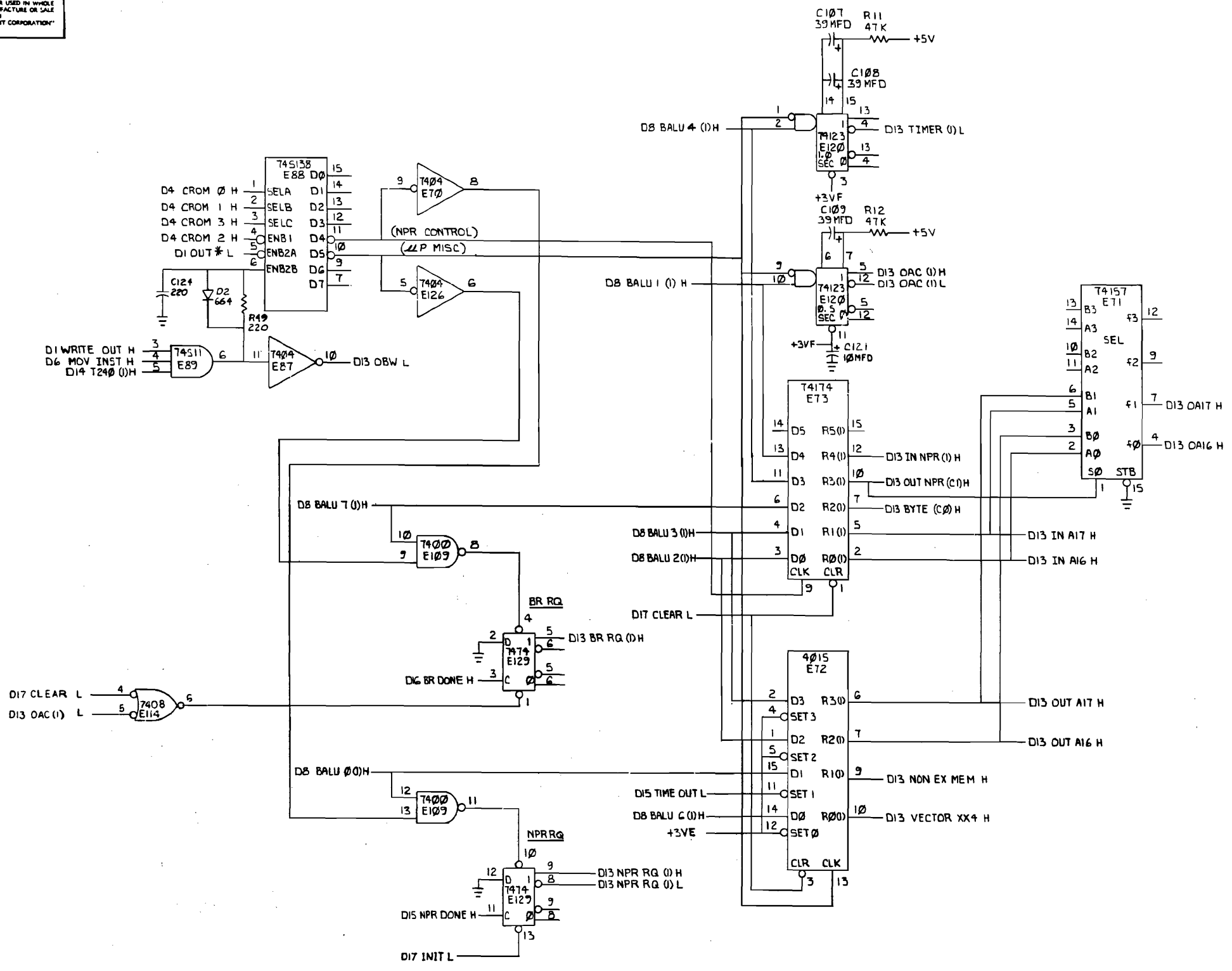
REVISIONS		
CHK	CHANGE NO.	REV.

(NPR BUS ADRS 0-17)

TITLE INTERPROCESSOR LINK
 SIZE CODE (012) DCS
 NUMBER M8200-0-1
 REV. M

SCALE 1:1 SHEET 13 OF 22 CIST.

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REVISIONS		
CHK	CHANGE NO.	REV

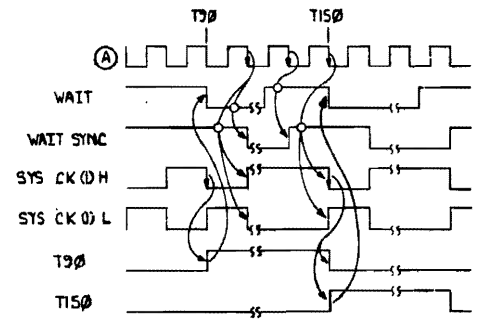
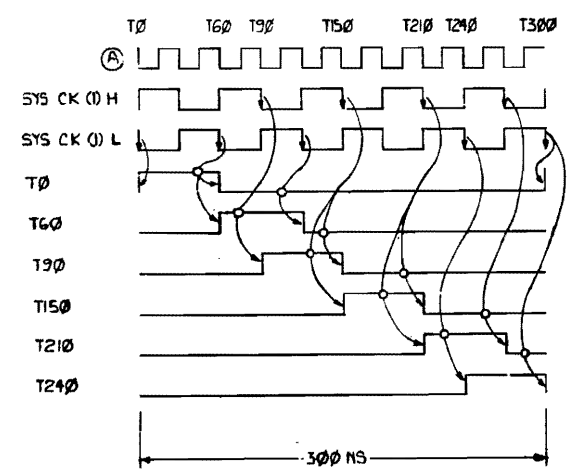
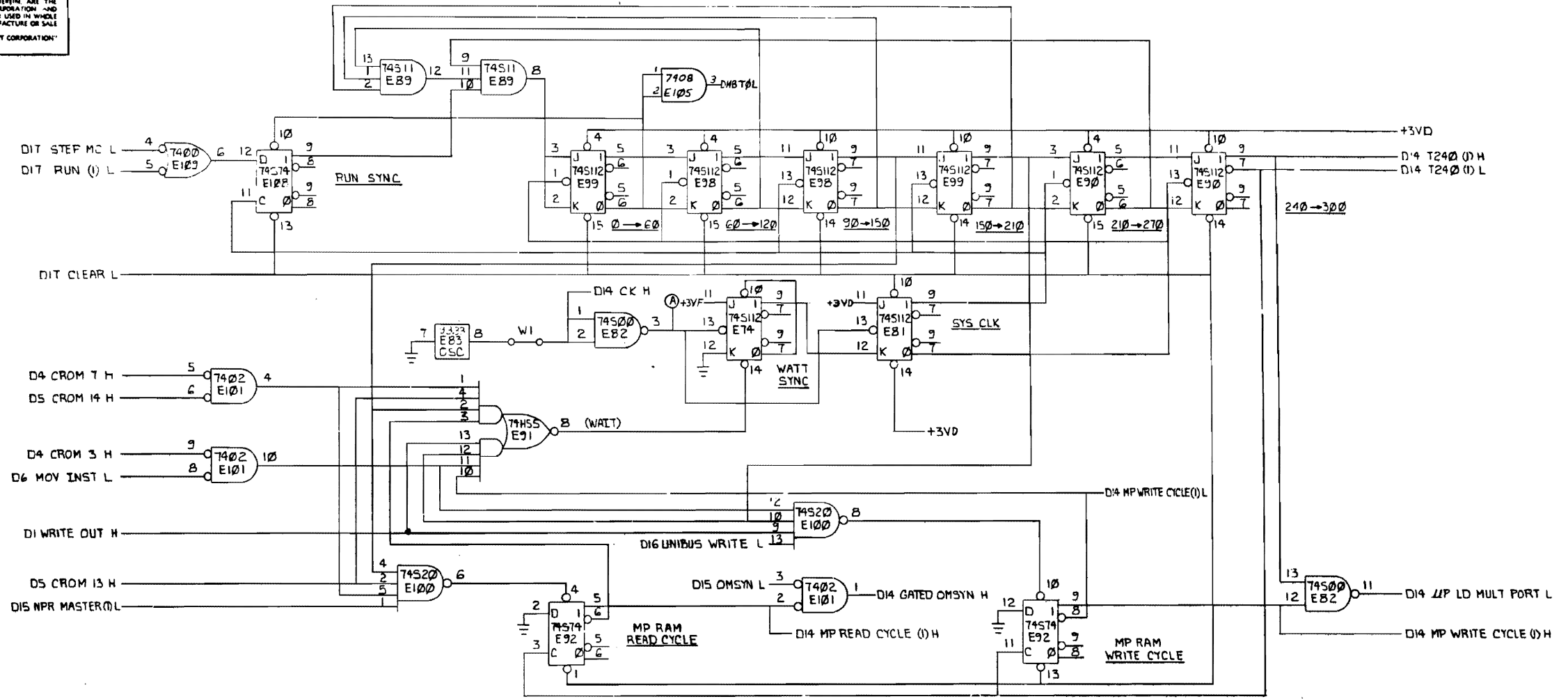
(BR RQ. NPR RQ. VECTOR XX4)

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

DCS M8200-0-1 M

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1-0-0000W S10 2



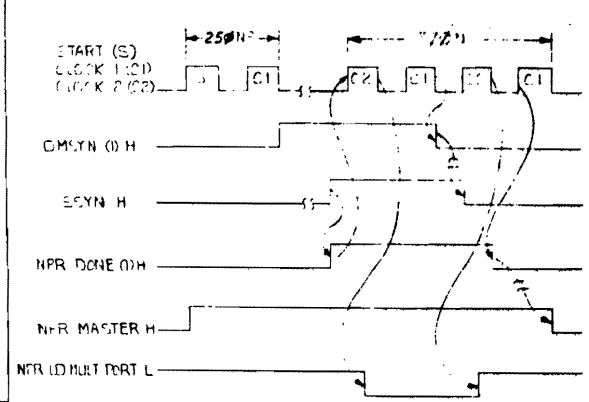
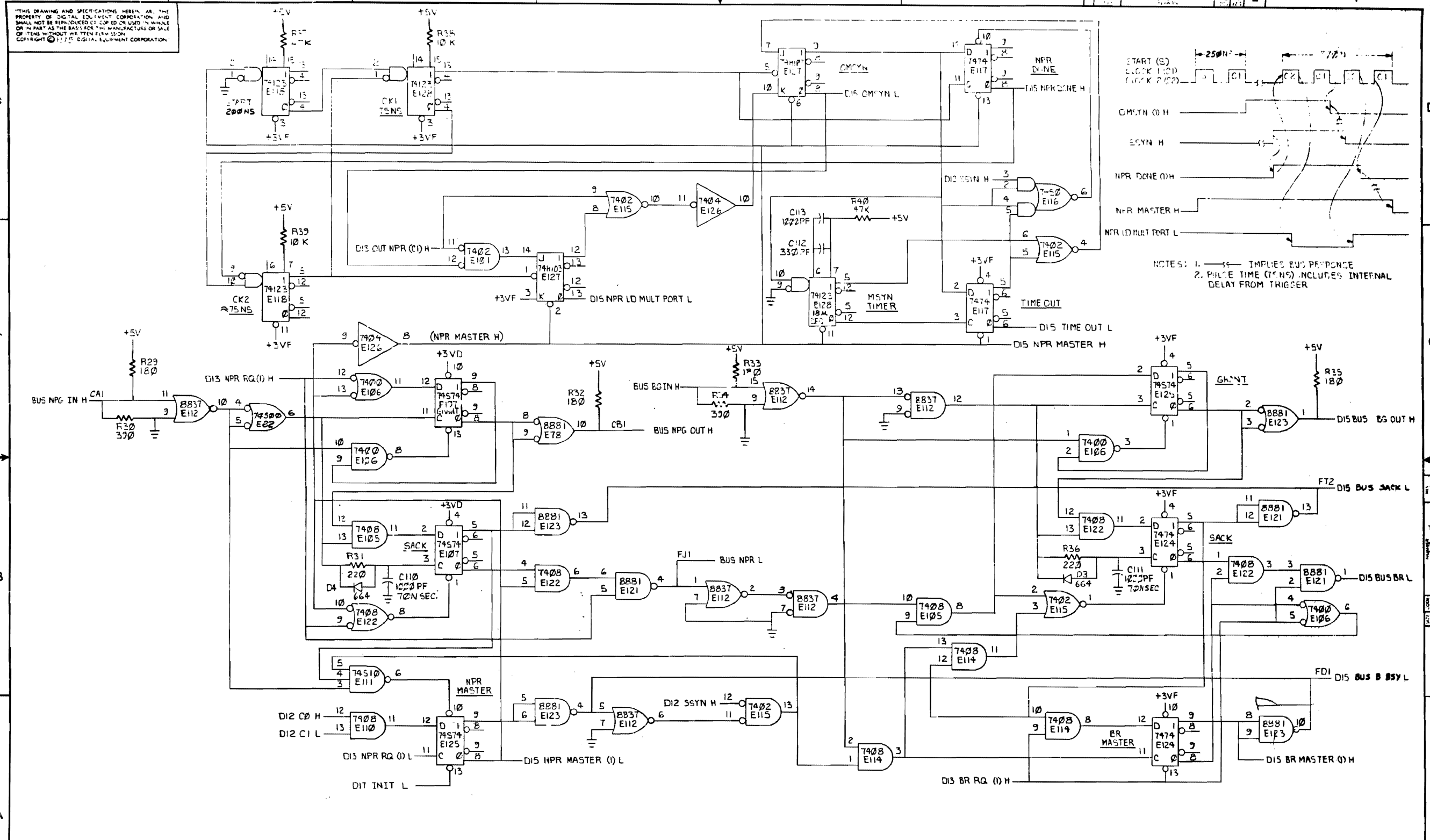
NOTE:
POINT A IS FOR D14 TIMING PURPOSES ONLY.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERPROCESSOR LINK (D14)		SIZE CODE DCS	NUMBER M8200-0-1	REV. M
SCALE	SHEET 15 OF 22	CIST.		

REV. 15/75 DCS M8200-0-1 M

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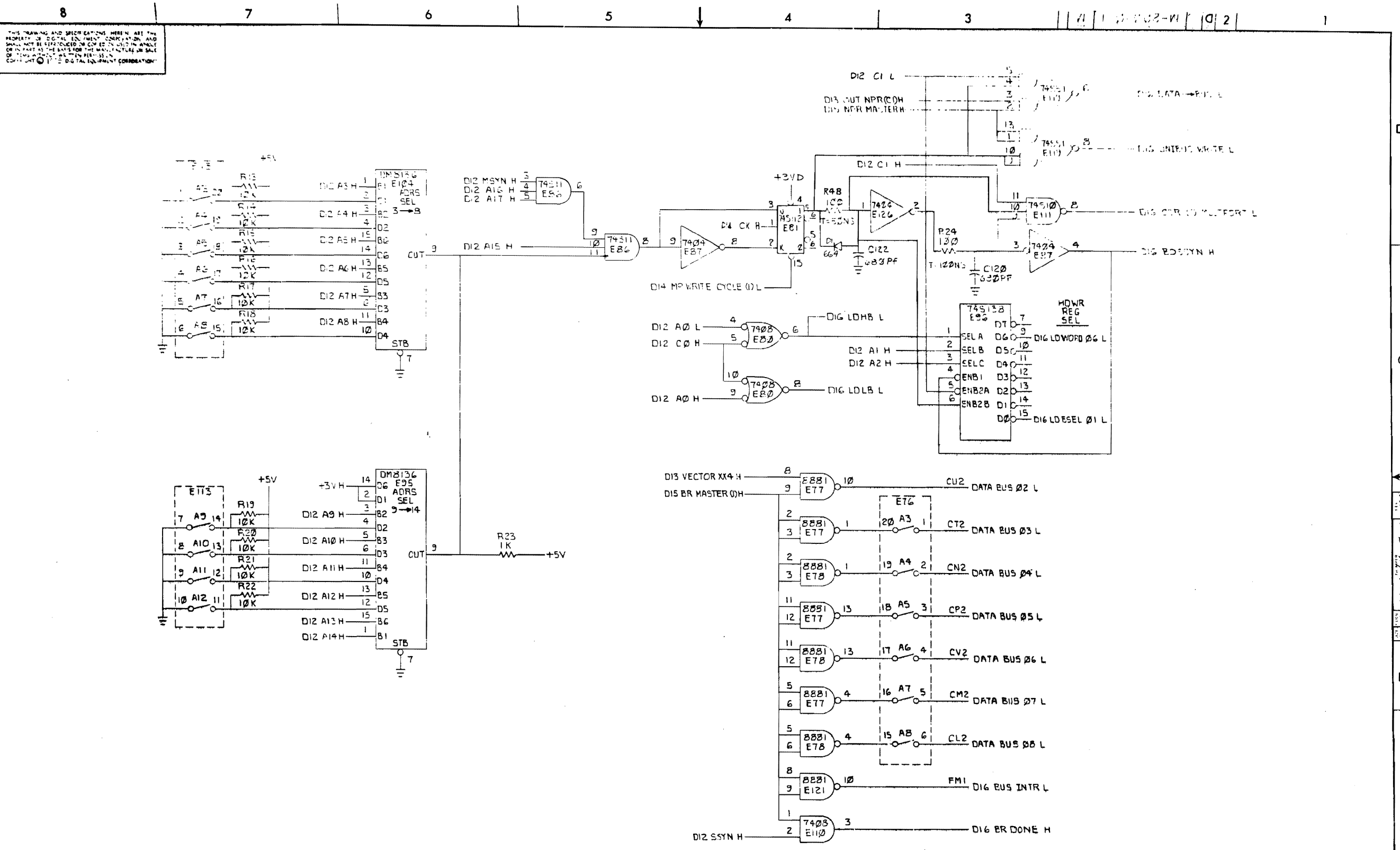


NOTES: 1. ——— IMPLIES END PERFORMANCE
2. PULSE TIME (75NS) INCLUDES INTERNAL DELAY FROM TRIGGER

REVISIONS		
CHK	CHANGE NO	REV

TITLE		(NPR, BR, MSYN)	
INTERPROCESSOR LINK		SIZE CODE	NUMBER
ILP		(DIS)	D CS M8200-0-1
SCALE	SHEET	OF	REV.
++	16	2	M

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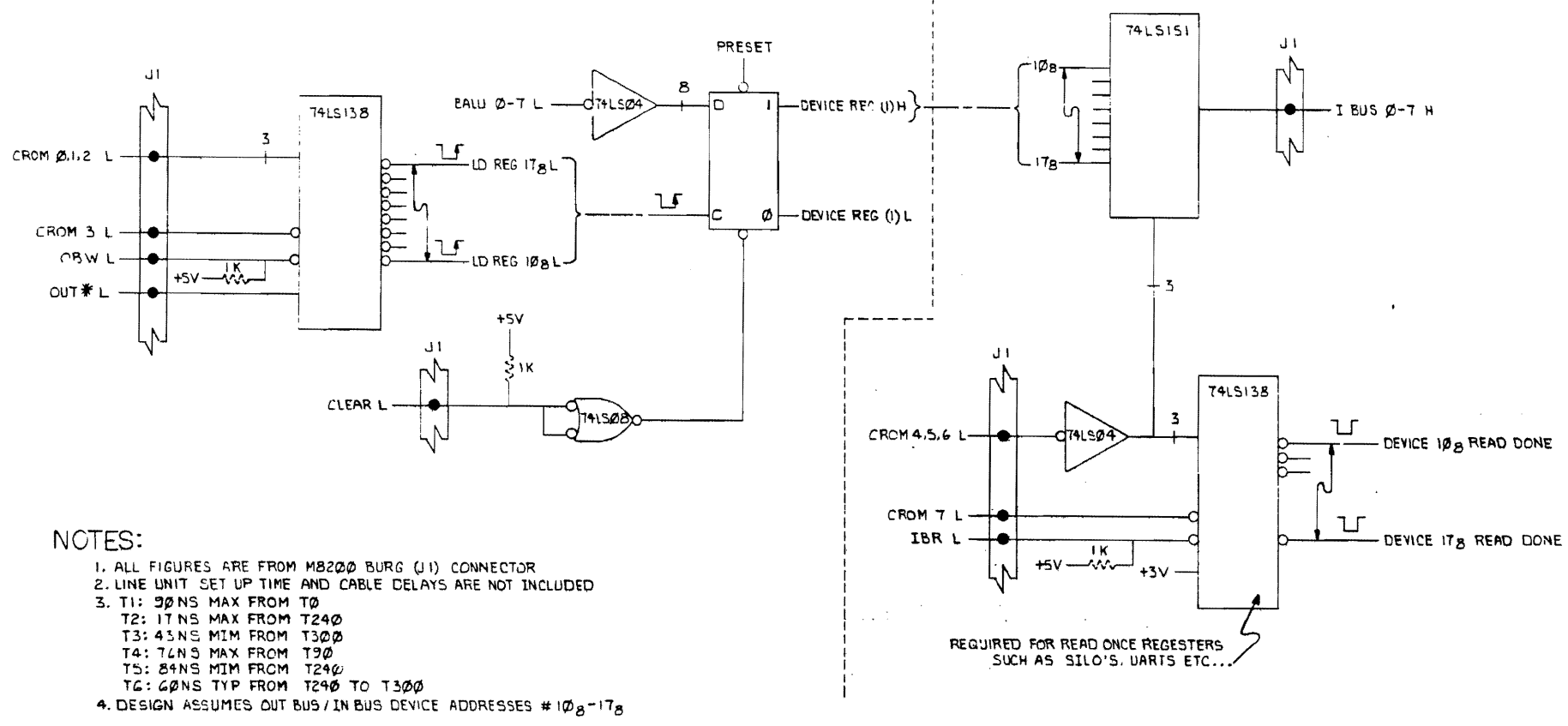
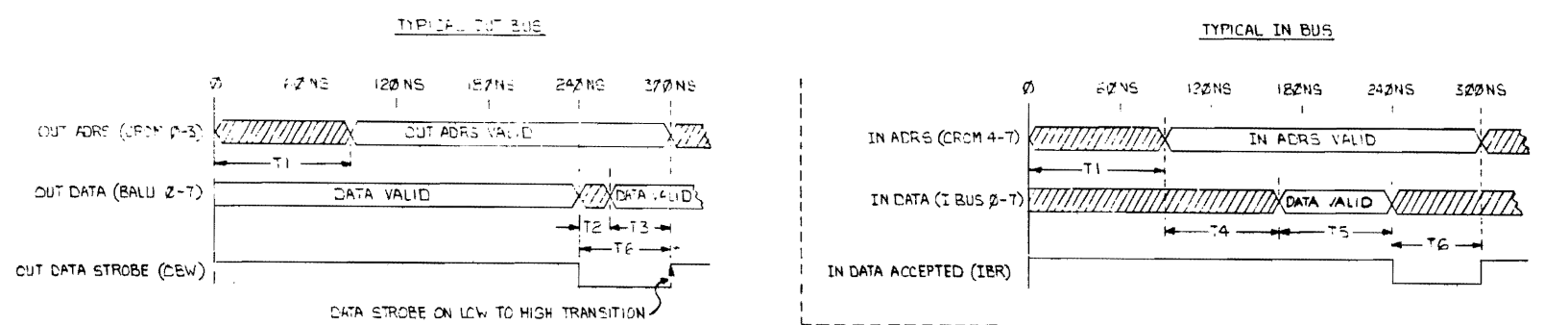
REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. 100

TITLE INTERPROCESSOR LINK				SIZE CODE	NUMBER	REV.
(D16)				D/CS	M8200-01-1	M
SCALE	SHEET	OF	DIST.			

M. J. WOOD - 11M

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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: 90NS MAX FROM T0
T2: 17NS MAX FROM T240
T3: 43NS MIN FROM T300
T4: 74NS MAX FROM T190
T5: 84NS MIN FROM T240
T6: 60NS TYP FROM T240 TO T300
 4. DESIGN ASSUMES OUT BUS / IN BUS DEVICE ADDRESSES # 10_B-17_B

REVISIONS		
CHK	CHANGE NO	REV.

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W 1-0-0022W 500 2

PROM/ROM ADDRS INPUT PINS	S ROM PINS	D ROM PINS	F ROM PINS
00000	00010000	00010100	00001011
00001	00010000	00010111	00001011
00010	00010000	00010000	00001000
00011	00010000	00010101	00001011
00100	10010001	00011100	00001011
00101	10110001	10010100	00001011
00110	00110001	01010100	00001011
00111	01010000	00010111	00001011
01000	01010000	00010100	00001011
01001	01010000	01010111	00001011
01010	01010000	00010111	00001011
01011	01010000	00010101	00001011
01100	01110000	00011100	00001011
01101	01110000	10010100	00001011
01110	01110000	01010100	00001011
01111	01110000	01010111	00001011
10000	00001000	00001000	10010010
10001	00001000	00000111	11010010
10010	00001000	00001000	11001100
10011	00001000	00000101	10100000
10100	10010100	00001100	11000000
10101	10110100	10000100	10000110
10110	11010100	01000100	11000110
10111	11110100	01000111	10011111
11000	01001000	00110100	00011111
11001	01001000	00110111	00001011
11010	01001000	00111000	00010111
11011	01001000	00110101	00011011
11100	01101000	00111100	00001111
11101	01101000	10110100	00001111
11110	01101000	01110100	00001101
11111	01101000	01110111	10101100
		01110111	10001100

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 0 7 6
 0 0 0 1
 0 0 1 LU BUS
 0 1 0 MEM
 0 1 1 BRG
 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 S1 S0
 1 1 LCAD
 0 1 SHIFT ←7→C
 1 0 NOT PROGRAMED
 0 0 HCLD

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^S COMP SUB (A-B-C)

MSB
 LSB
 DMUX SRC
 MOV INST H
 MOV INST L
 IBUS = H
 IBUS H

WRITE MEM H
 WRITE SP H
 MAR INC EN L
 MAR LD EN H
 WRITE OUT H
 OUT * L
 BRG LD/SH { S1
 S0

CK C H
 EN C H
 FORCE C H
 S0 L
 S1 L
 S2 L
 S3 L
 M

REV. M
 M8200-0-1

REVISIONS		
CHK	CHANGE NO.	REV

(S-D-F ROM PATTERNS)			
TITLE	SIZE	CODE	NUMBER
INTERPROCESSOR LINK	020	DCS	M8200-0-1
SCALE	SHEET 21 OF 22	DIST.	REV. 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-M8200-0-5		MODULE ECO HISTORY		REF
5	5		5011842-00	M8200	1	
6	6		1000023-00	330.0 MMF 100V 5%200PFM DM155 (10-00	1	C112
7	7		1001610-00	.01 MFD 50V -20+80 Z5U DISC 8000FF 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%200PFM DM155 (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-0-1 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-0-1 XPNDBLE GATE-2 WIDE 4INF	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	74500 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:	R KOPPENAL	DATE:	20-MAR-78	TITLE	MAYNARD, MASSACHUSETTS		
R.R	00011	N		CHECKED:	K GLEEZEN	DATE:	20-MAR-78	INTERPROCESSOR LINK UP			
C.L	MK012	P		DSN.ENG.:	R.LISEE	DATE:	20-MAR-78	(M8200-00)			
				PROD.:	R WALL	DATE:	20-MAR-78	SIZE! CODE! DOCUMENT NUMBER ! REV			
				RESP.ENG.:	R.LISEE	DATE:	20-MAR-78	K ! PL ! M8200-0-DBF ! P			
								ASSY.NO.:	D-UA-M8200-0-0	EDIT#	
										13	

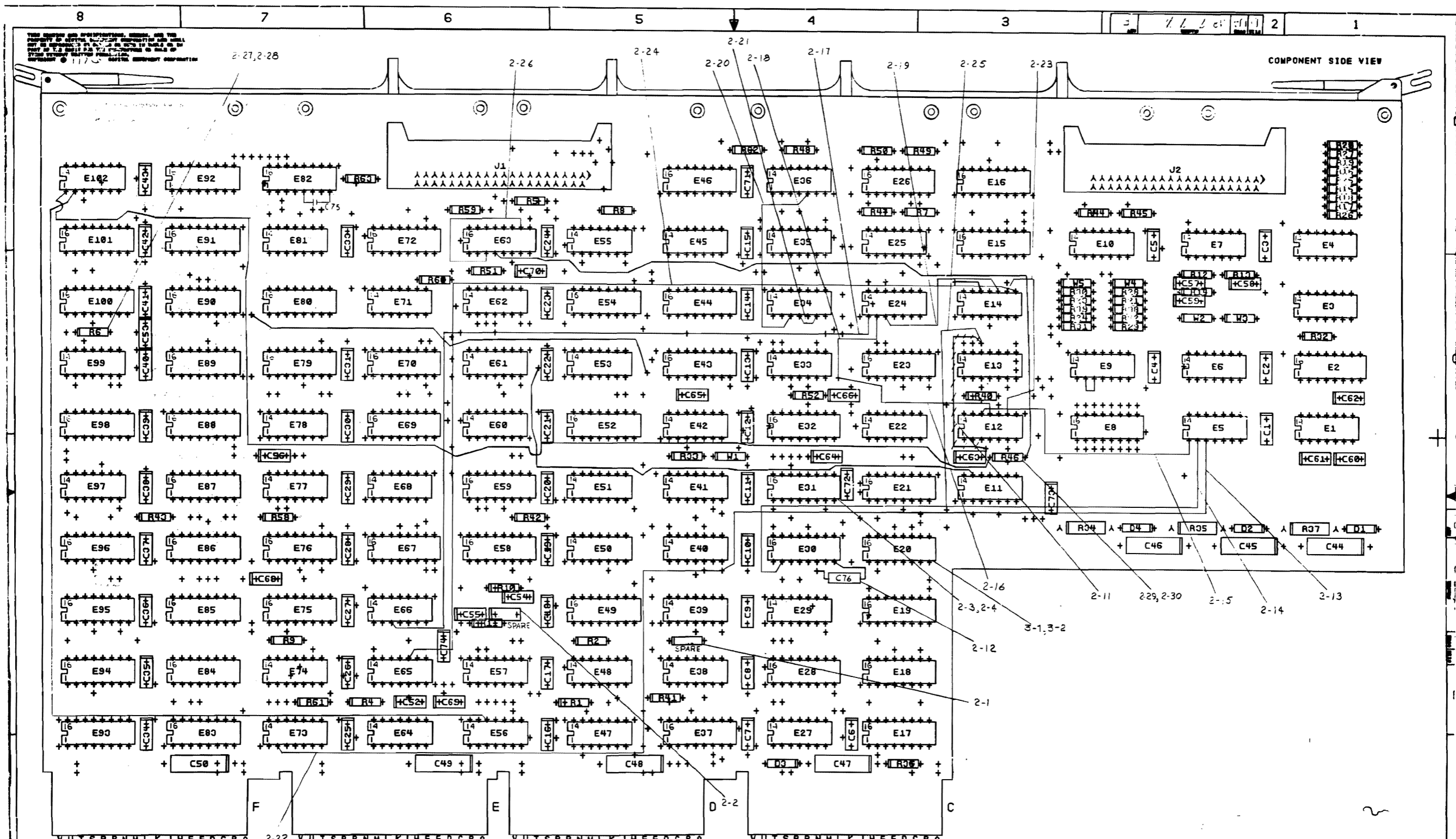
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1910650-00	74161 COUNTER, SYNCHR. UP	5	E10, E18, E28, E34, E36
31	31		1910652-00	74174 FF-D HEX	2	E73, E97
32	32		1910653-00	MEMORY READ/WRITE 64BIT	2	E49, E50
33	33		1910818-02	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	PLUG 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%200PPM 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-DBF !	! 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	II 664 QS\75PCB PIV= 25V SF	4	II-04
92	92		1000021-00	220.0 MMF 100V 5%200PPM IM15S	(10-00	1 C124
93	93		23725A9-00	A9-01	PROM,	0
94	94		23726A9-00	A9-01	PROM,	0
95	95		23777A9-00	A9-01	PROM,	0
96	96		23728A9-00	A9-01	PROM,	0
97	97		23729A9-00	A9-01	PROM,	0
98	98		23730A9-00	A9-01	PROM,	0
99	99		23731A9-00	A9-01	PROM,	0
100	100		23732A9-00	A9-01	PROM,	0
101	101		23622A9-00	A9-01	PROM,	0
102	102		23623A9-00	A9-01	PROM,	0
103	103		23624A9-00	A9-01	PROM,	0
104	104		23625A9-00	A9-01	PROM,	0
105	105		23626A9-00	A9-01	PROM,	0
106	106		23627A9-00	A9-01	PROM,	0
107	107		23628A9-00	A9-01	PROM,	0
108	108		23629A9-00	A9-01	PROM,	0
109	109		23630A9-00	A9-01	PROM,	0
110	110		23631A9-00	A9-01	PROM,	0
111	111		23632A9-00	A9-01	PROM,	0
112	112		23633A9-00	A9-01	PROM,	0
113	113		23634A9-00	A9-01	PROM,	0
114	114		23635A9-00	A9-01	PROM,	0
115	115		23636A9-00	A9-01	PROM,	0
116	116		23637A9-00	A9-01	PROM,	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



2-27, 2-28
 1175
 1175

COMPONENT SIDE VIEW

NOTES: ETCH CUTS - SIDE 1: E14-11A12; R46
 FEEDTHRU UNDER E13; E11-13 AC63
 2 ETCH CUTS - SIDE 2: E11-13 AC63
 2 FEEDTHRU UNDER E13; E11-13 AC63
 TOTAL OF 5 CUTS
 FOR P-BOARD SEE SHEET 3

CHG	NO	REV	BY	DATE	DESCRIPTION
E1	1	00001	B		
E2	1	00001	B		
E3	1	00001	B		
E4	1	00001	B		
E5	1	00001	B		
E6	1	00001	B		
E7	1	00001	B		
E8	1	00001	B		
E9	1	00001	B		
E10	1	00001	B		
E11	1	00001	B		
E12	1	00001	B		
E13	1	00001	B		
E14	1	00001	B		
E15	1	00001	B		
E16	1	00001	B		
E17	1	00001	B		
E18	1	00001	B		
E19	1	00001	B		
E20	1	00001	B		
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E23	1	00001	B		
E24	1	00001	B		
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E28	1	00001	B		
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E96	1	00001	B		
E97	1	00001	B		
E98	1	00001	B		
E99	1	00001	B		
E100	1	00001	B		
E101	1	00001	B		
E102	1	00001	B		

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
 E9-243
 FEEDTHRU NEAR E80 TO FEEDTHRU NEAR E43
 E56-12 TO E102-2
 ADD CAP-C75 BETWEEN E82-548

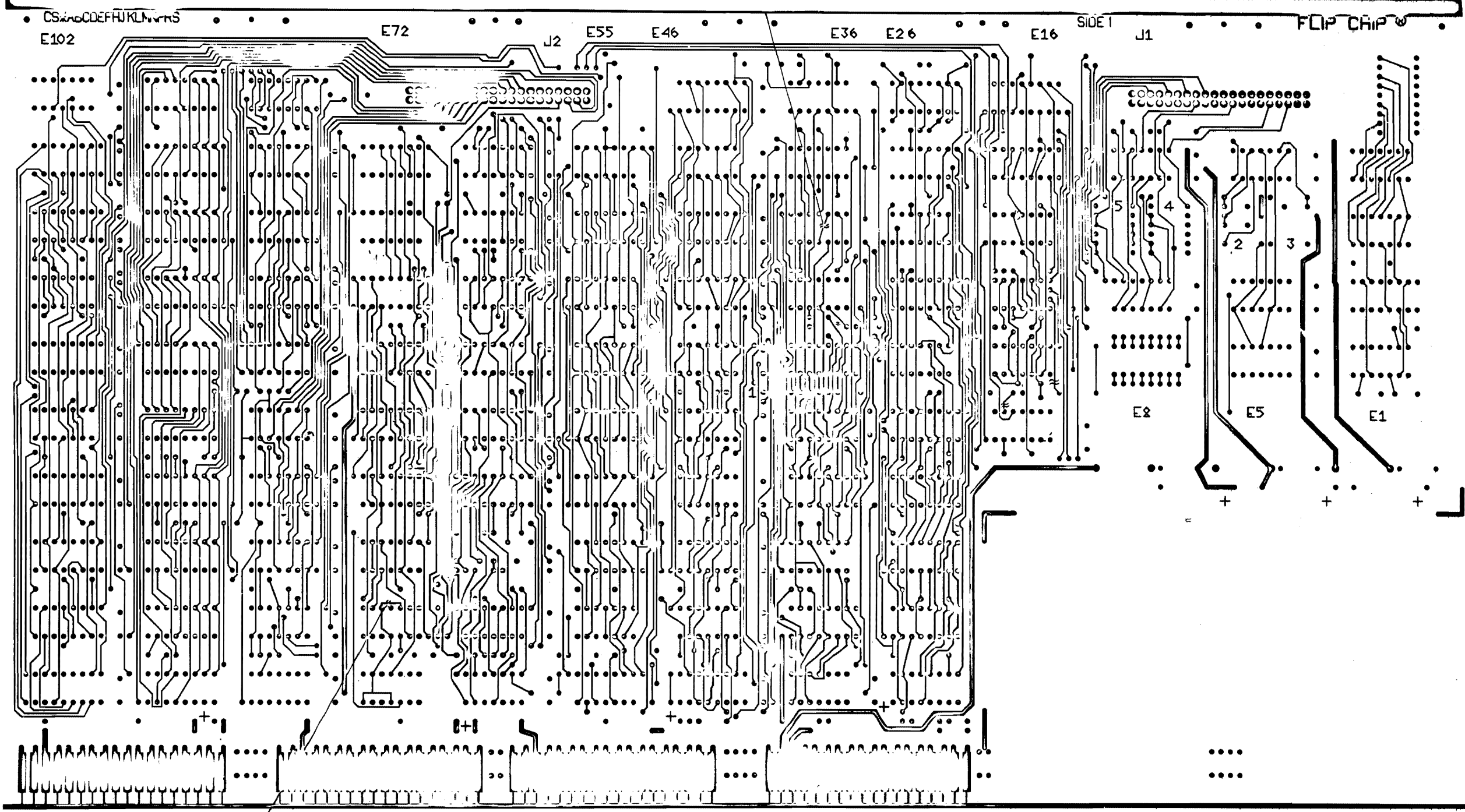
ETCH REV. C
P.C. DESIGN DATA BASE REV. C

SIGNATURES	DATE	TITLE
DRN. BURNELL	11-26-75	IPL SLU LOW
CHK'D. T. SHEPHERD	11-26-76	
ENG. R. SMITH	2-27-76	SIZE CODE NUMBER
PROJ. ENG. R. SMITH	2-27-76	
PROD. S. WALL	2-27-76	REV
SCALE 2/1		
SHT. 1 OF 3		
NEXT HIGHER ASSY. E-DD-MB201-0		

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LAYER 1

5011711C M8201



2-5 VIEWED FROM SIDE 1 WITHOUT INK

REVISIONS		
CHK	CHANGE NO	REV

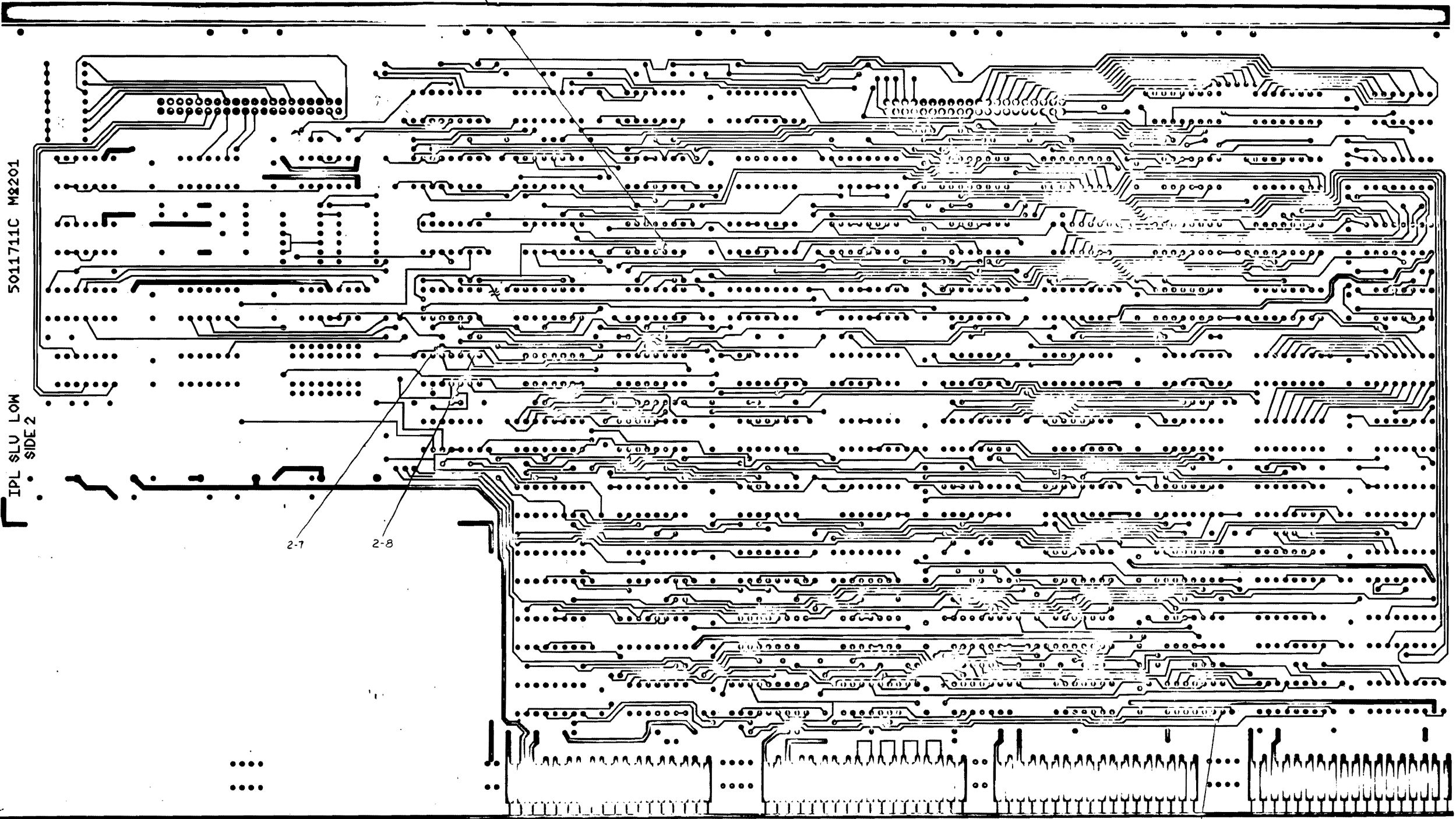
TITLE	IPL SLL LOW	SCALE	1:1	SHEET	2 OF 8	DATE		REV	E
DESIGN CODE	D	PROJECT	M8201						

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LAYER 02

2 1-1 M8201 1 2

5011711C M8201
 IPL SLU LOW
 SIDE 2



VIEWED FROM SIDE 2 WITHOUT INK

2-10

REVISIONS		
CHK	CHANGE NO	REV

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

10 100000

7

6

5

4

3

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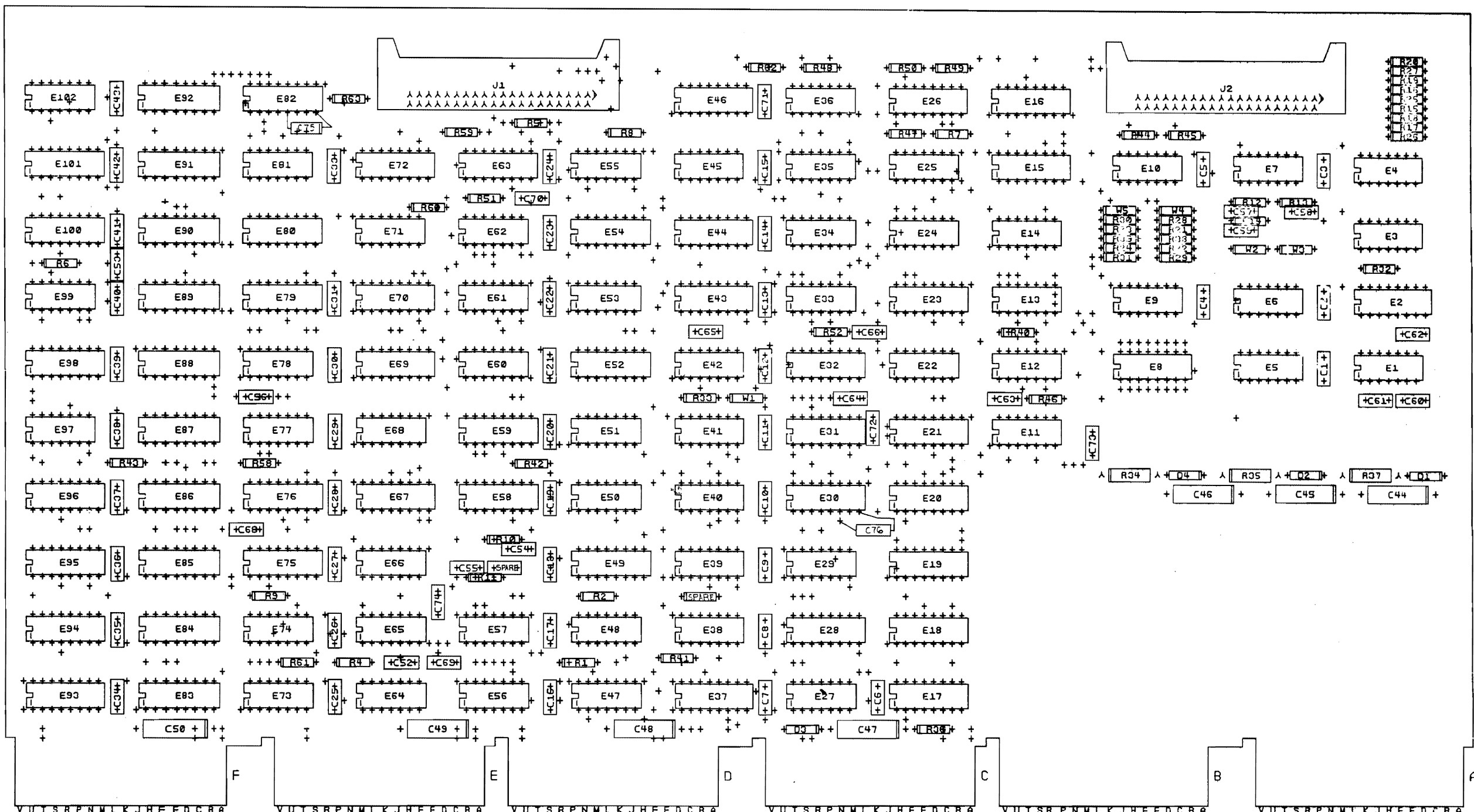
3

7-1-1972 4477 2

1

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COMPONENT SIDE VIEW



NOTES: WITH INK

CHANGE NO	REV

BOARD FABRICATION INFORMATION	
PANEL SIZE	
PANEL DATA DWG.#	
PRIN. MAT'L FL-GR-#	-C 1/1
DEC PS - INCHES	
QTY. OF LAYERS	
PTH. FRONT AND ETCH	
SOLDER MASK SIDE 2	BOTH SIDES
GOLD CONTACTS	EDTOM TOP

SIGNATURES		DATE
DRN.		
CHK'D.		
ENG.		
PROJ. ENG.		
PROD.		
SCALE		
SHT. 4 OF 5		
NEXT HIGHER ASSY. B-LU-M-21-00		

digital		
TITLE		
IPL SUB LOW		
SIZE CODE	NUMBER	REV
D	UA 10-271-0-0	t
ETCH REV.		

8

7

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3

2

1 MS#

170

LAYER 1

5011-11C M8201

CS*ABCDEFGHIJKLMNPRS

E102

E72

J2

E55

E46

E36

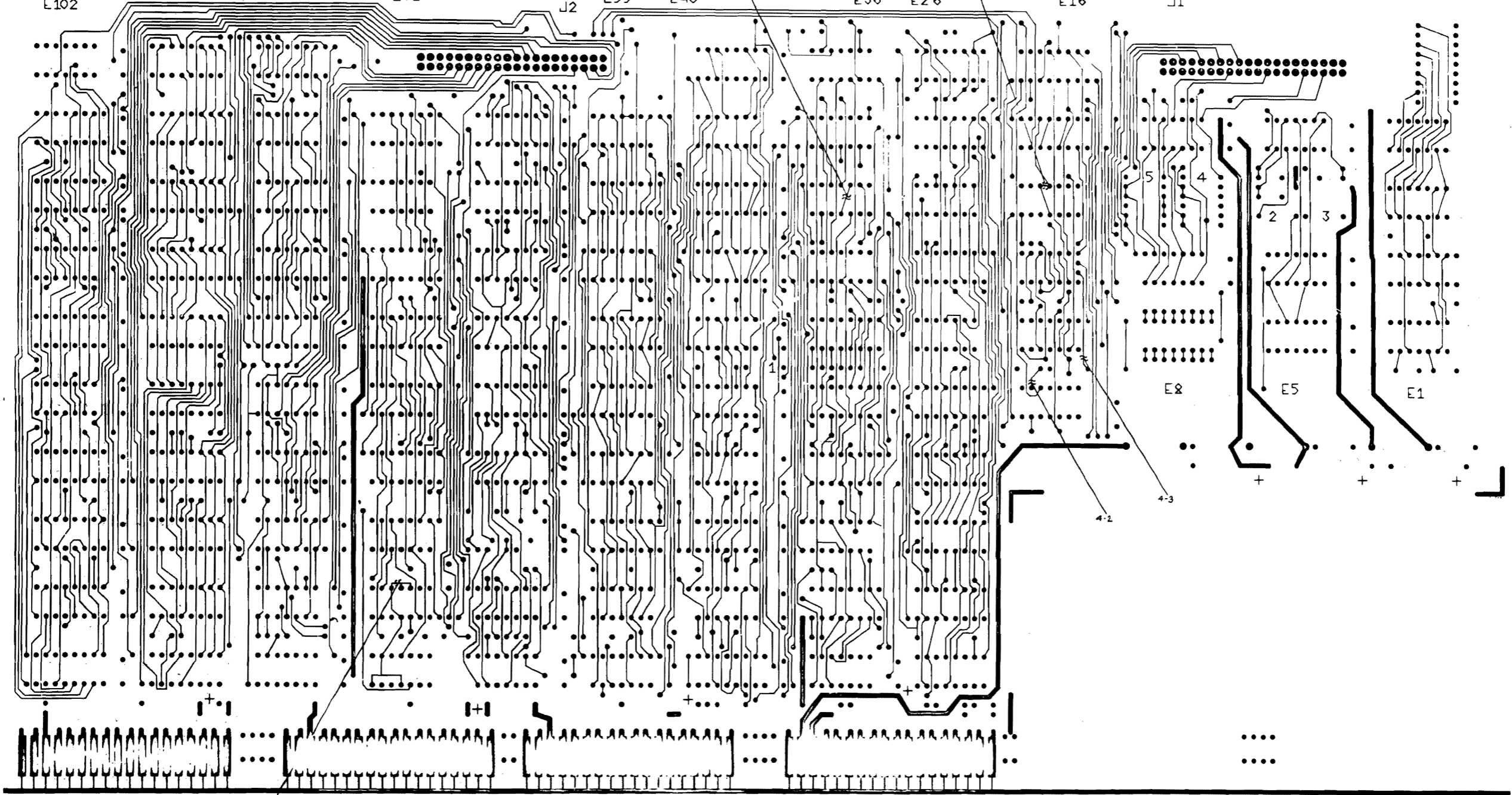
E26

E16

SIDE

J1

FLIP CHIP



WITH INK

REV	DATE	BY

IPL SLU LOW

DUA

M8201-0-0 E

8

7

6

5

2/1

5 8

LAYER 2

REPRODUCED ON THE BASIS OF THE MANUFACTURE OR SALE OF THIS PRODUCT WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION

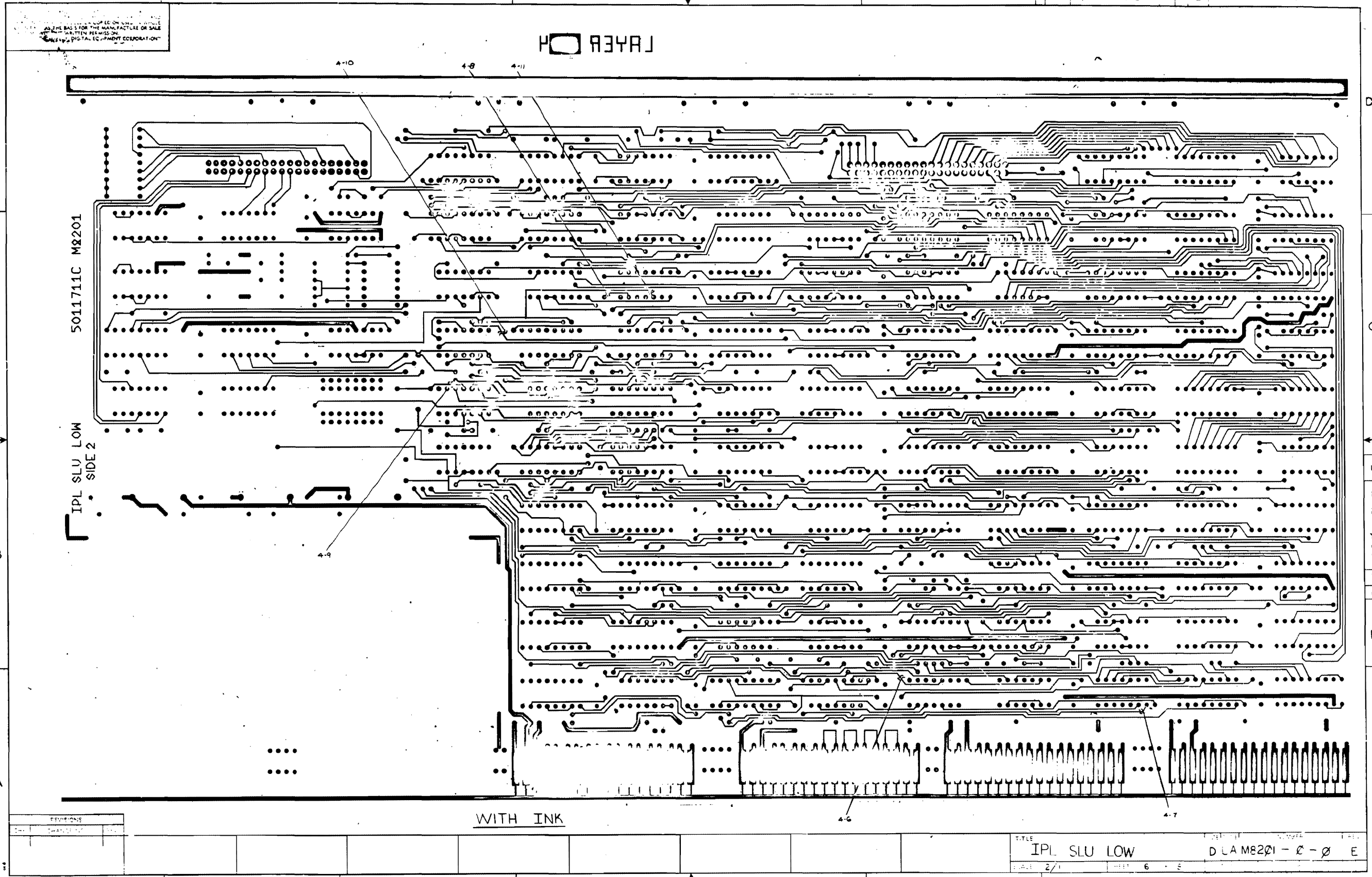
5011711C M8201

IPL SLU LOW SIDE 2

WITH INK

REVISIONS	
NO.	DESCRIPTION

TITLE	IPL SLU LOW	REV.	0 - 0
DATE	2/1	HEET	6 - E
DLA M8201 - 2 - 0		E	

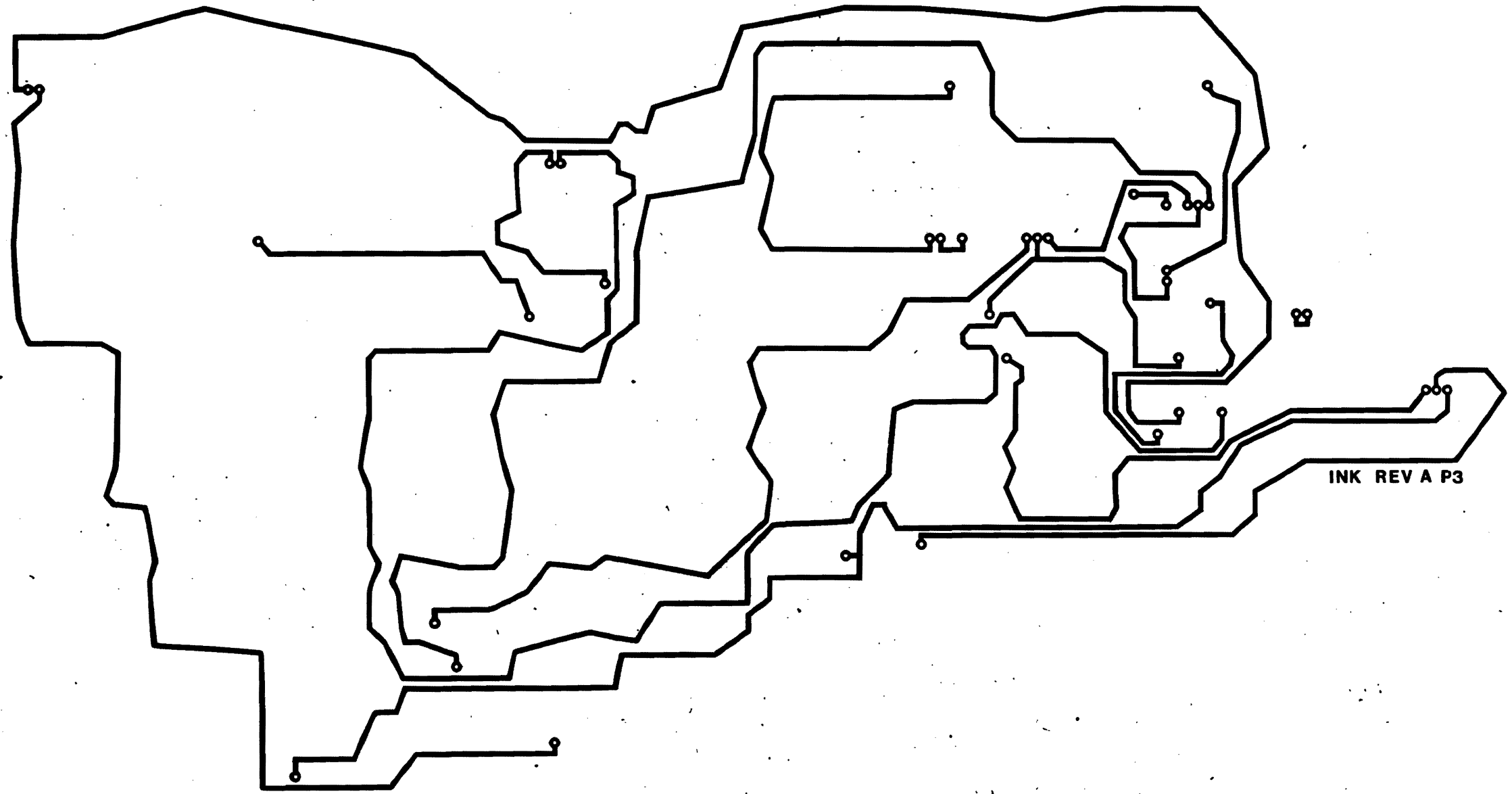


DUAL M8201-0-0 2 3 4 5 6 7 8

D
C
B
A

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COPPER INK REV A-P3



INK REV A P3

REVISIONS		
CHK	CHANGE NO	REV.

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

8 7 6 5 4 3 2 1

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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, E30-8 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 (J3-00247)
 - 2-29. REMOVE R46, 220 OHM
 - 2-30. ADD R46, 120 OHM (J3-00247)

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

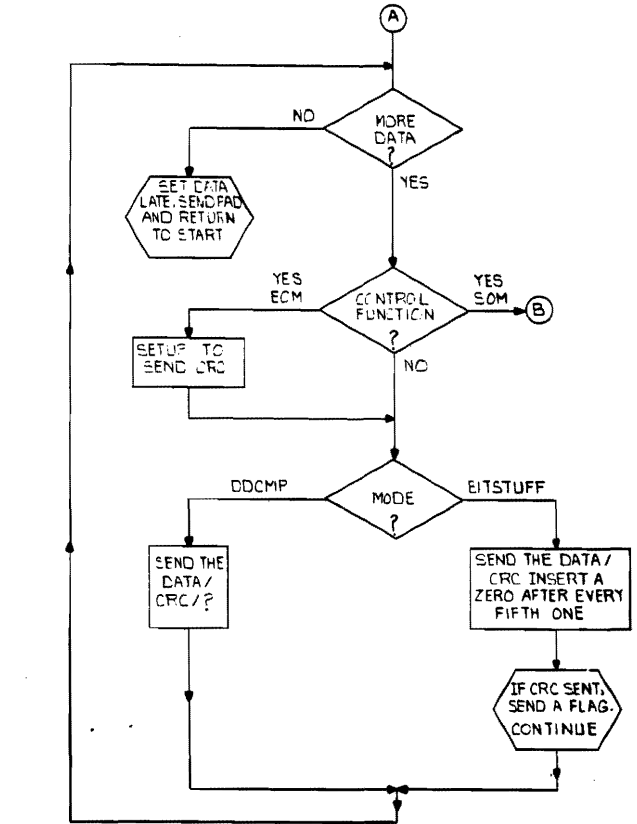
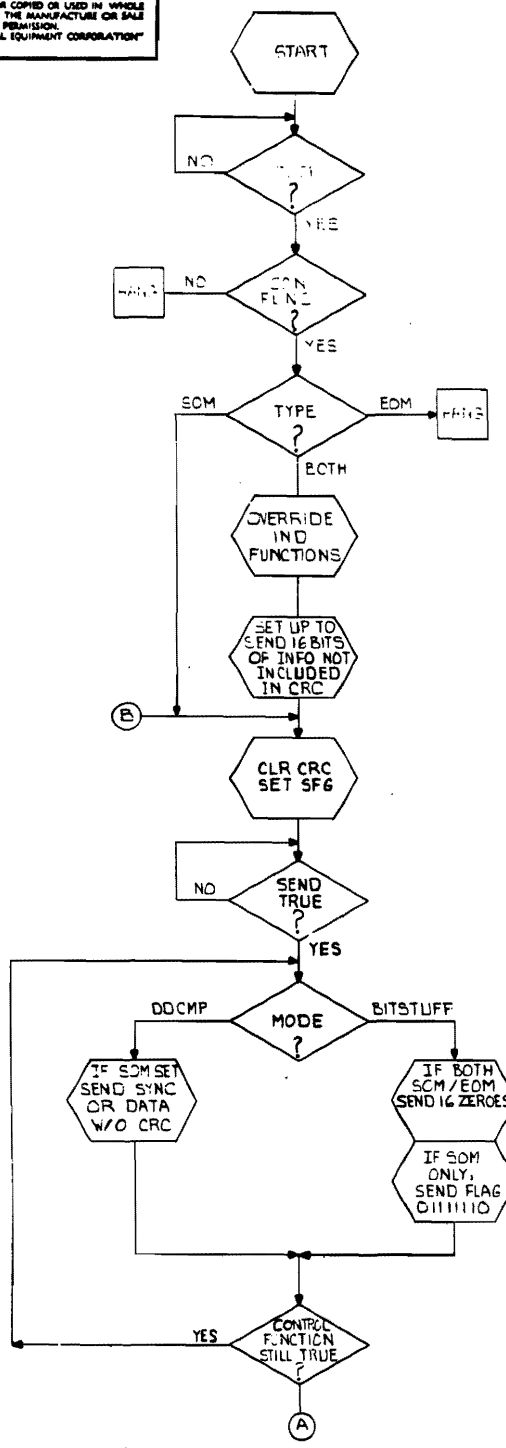
REWORK WITH INK

- 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 S6-12 NEAR E56-8
 - 4-7. AT E73-2
 - 4-8. AT F/T TO THE LEFT OF E34-7
 - 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

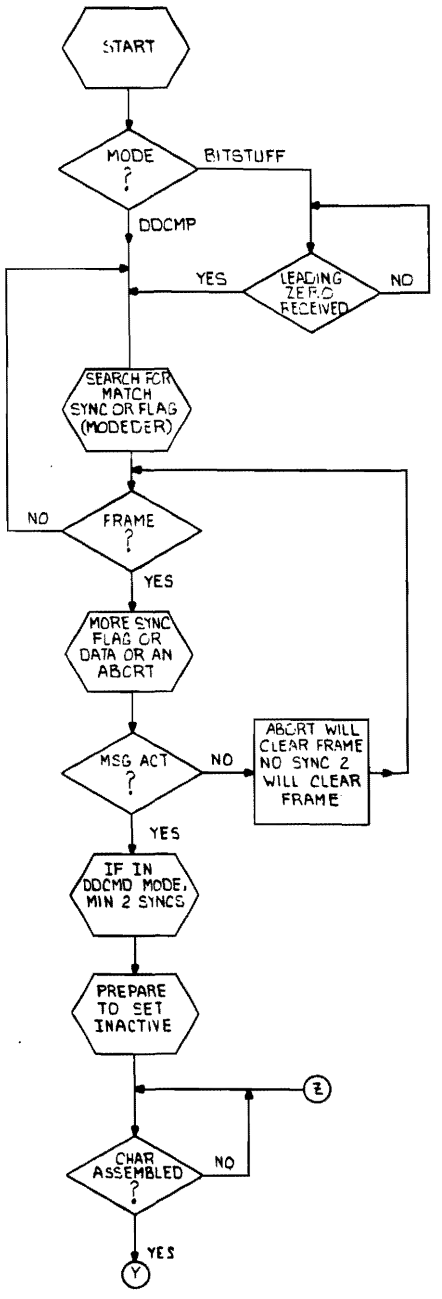
REVISIONS		
CHK	CHANGE NO	REV

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

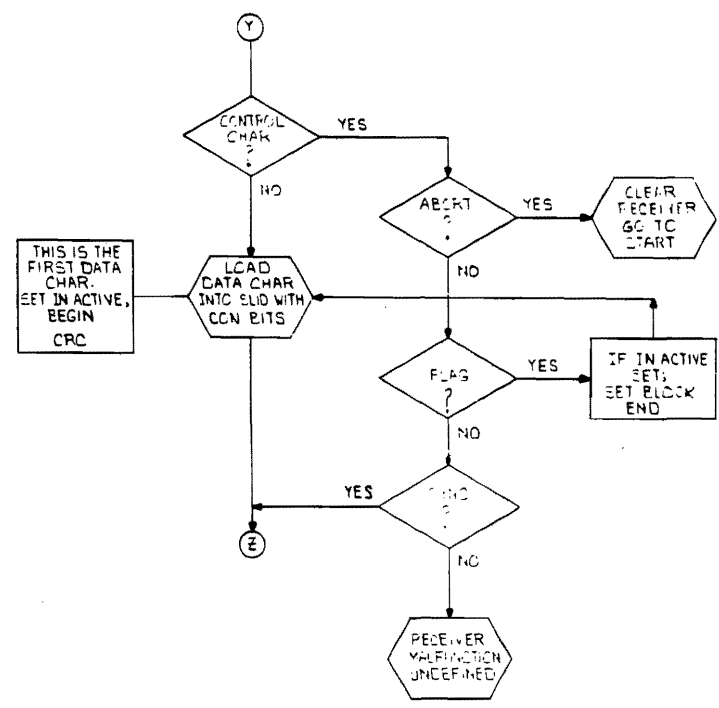
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TRANSMITTER



RECEIVER



(DEVICE FLOW)

DRY: K. Koppelman	1-2-75	FIRST USED ON	digital
CHKD: J. J. ...	2-2-76	TITLE	IPL SLU LOW
ENG: L. J. ...	2-2-76	PROJ. ENG. R. ...	2-2-76
PROD. R. W. ...	2-27-76	NEXT HIGHER ASSY.	
SCALE	SIZE	QUANTITY	NUMBER
	DCS	M8201-0-1	
SHEET	OF	DIST.	
1	10		

REVIEWS	REV	DATE
CHIK	MB	201-00002
REVISED	BY	DATE
1	B. SMITH	12/18/74
2	R. ALONSI	10-4-77
3	R. ALONSI	7-MAR-78

DEC FORM NO. 1020

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Table with 16 columns (3-16) and rows for signals D3 CROM 0 L through D5 PDACP. Each cell contains an 'X' or is empty.

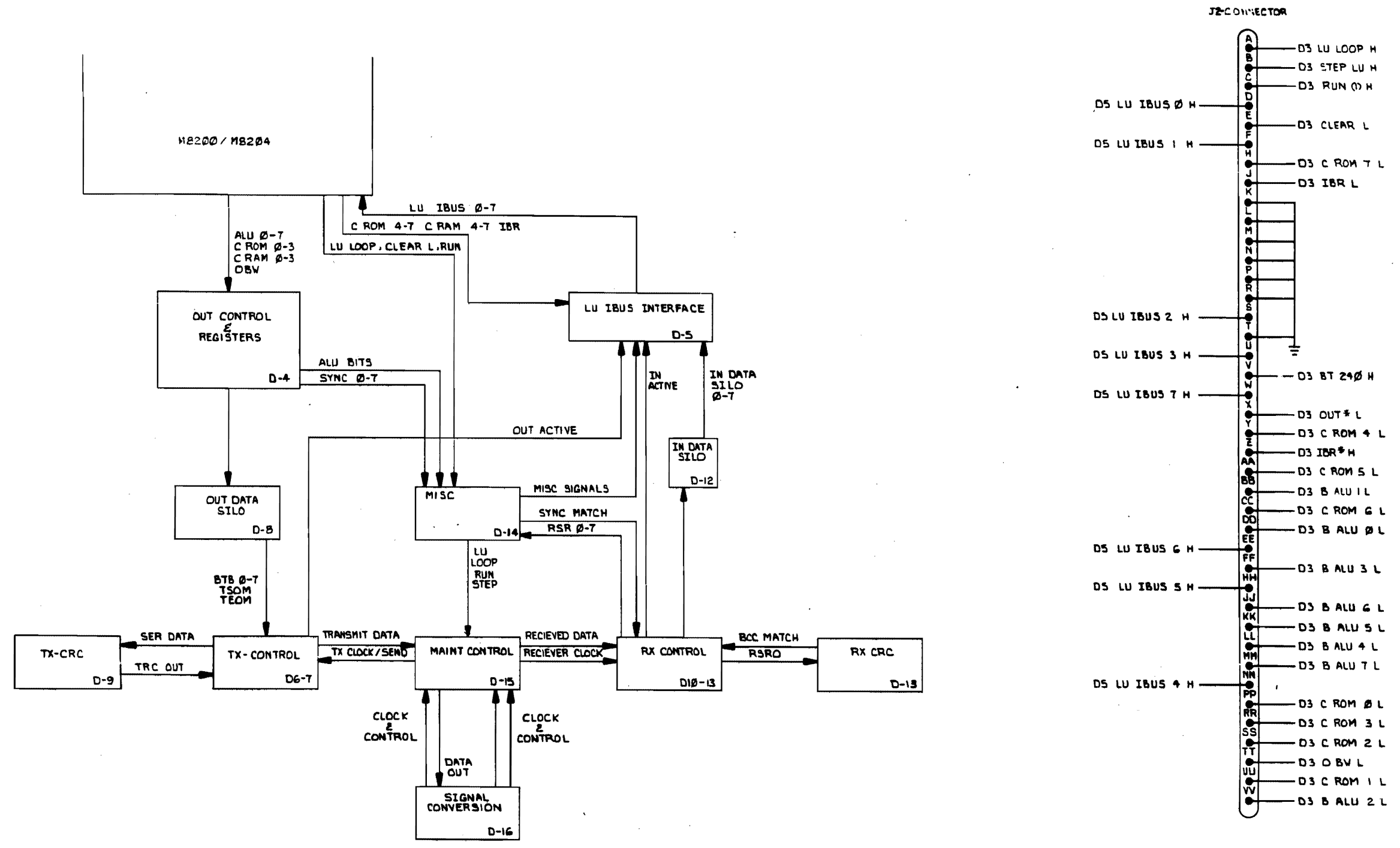
Table with 16 columns (3-16) and rows for signals D5 LW IBUS 0 H through D10 RCP L. Each cell contains an 'X' or is empty.

Table with 16 columns (3-16) and rows for signals D10 RCOO H through D14 REG 15-1 H. Each cell contains an 'X' or is empty.

Table with 16 columns (3-16) and rows for signals D14 REG 15-8 H through D11 RSR 2 H. Each cell contains an 'X' or is empty.

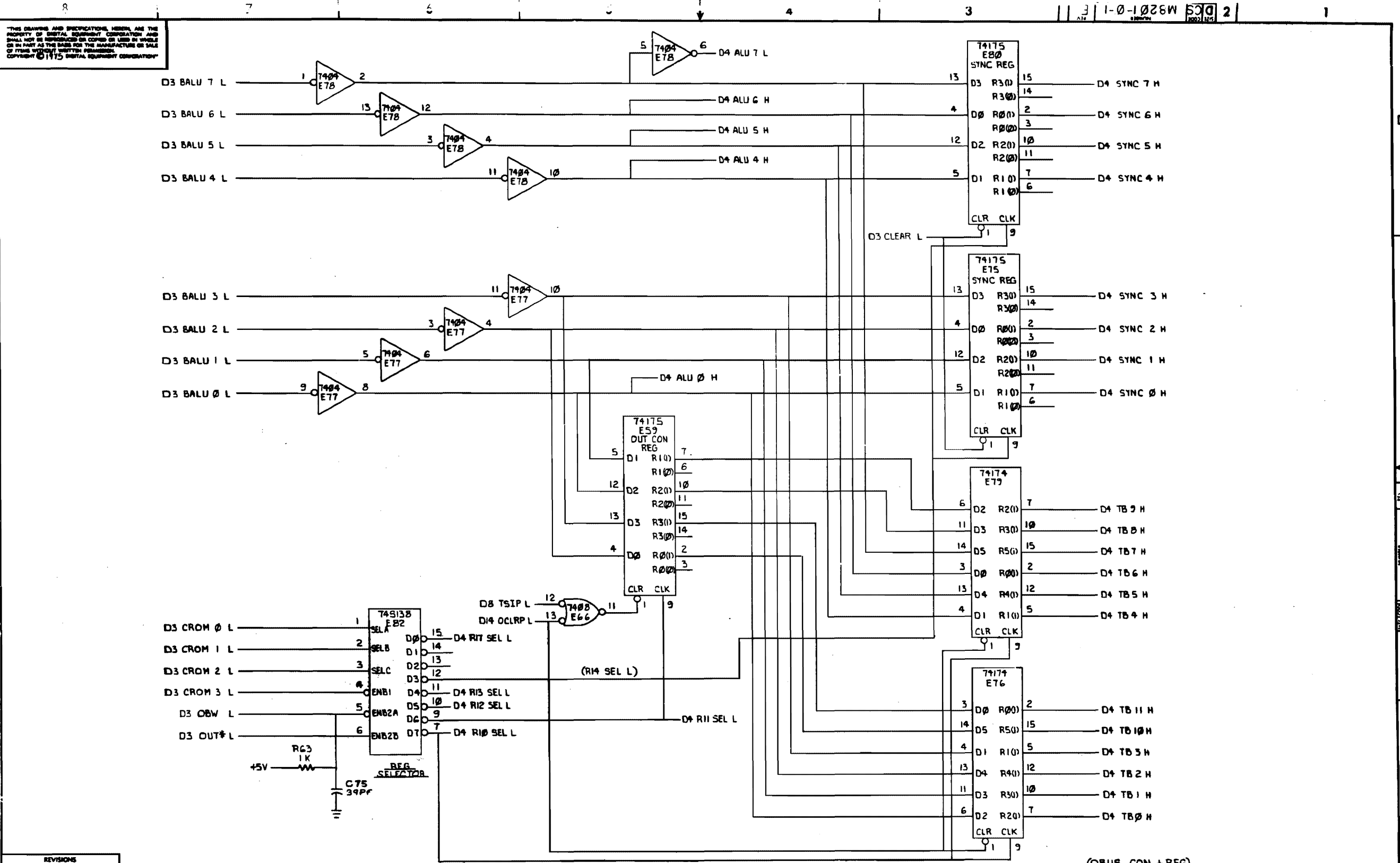
Table with 3 columns: CHK, CHANGE NO, REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

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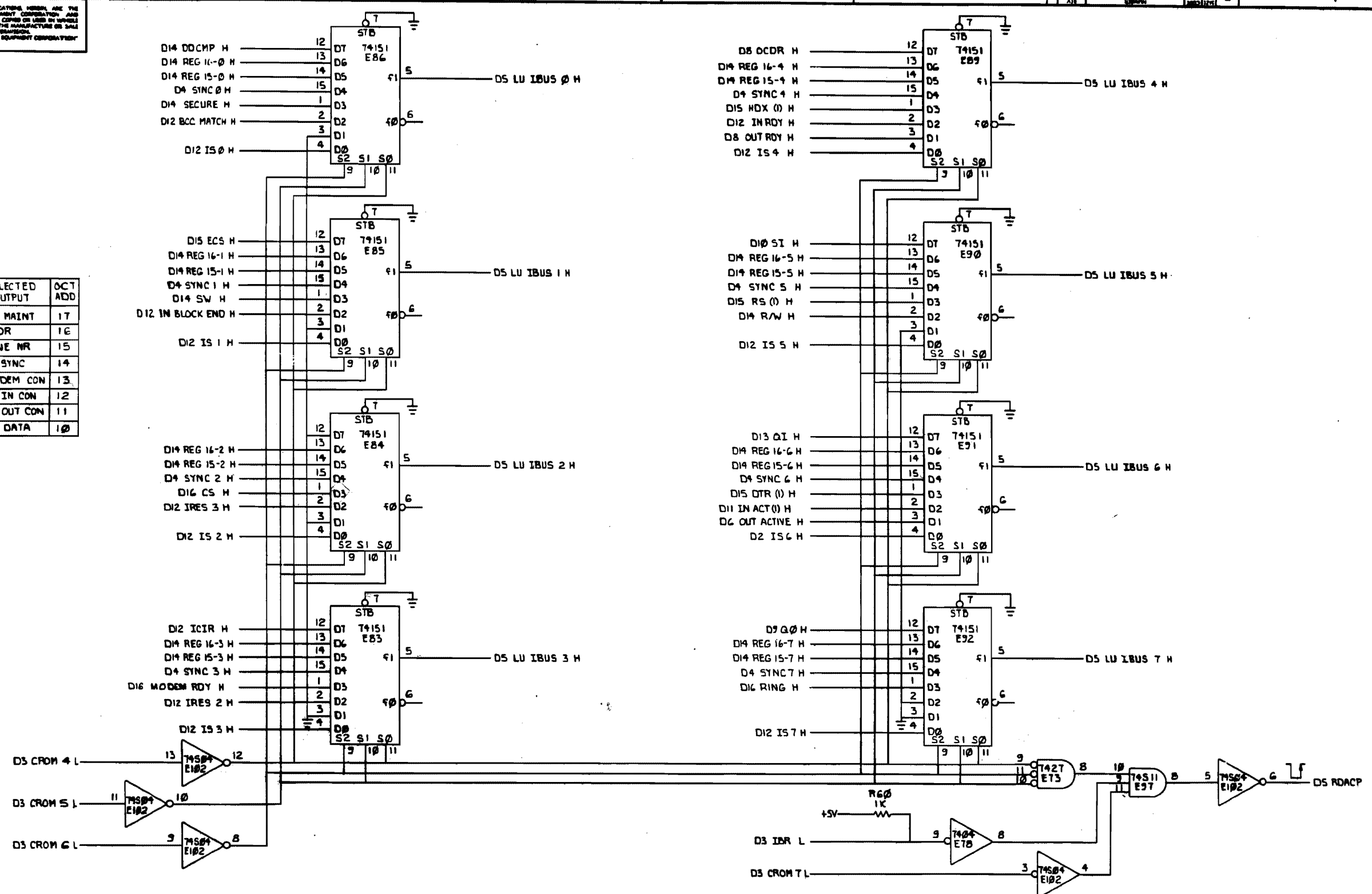
REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. 100 1-68

TITLE		IPL SLU LOW		SIZE	CODE	NUMBER	REV.
SCALE		++	SHEET	4	OF	6	E
DIST.		DCS		M8201-0-1		(04)	

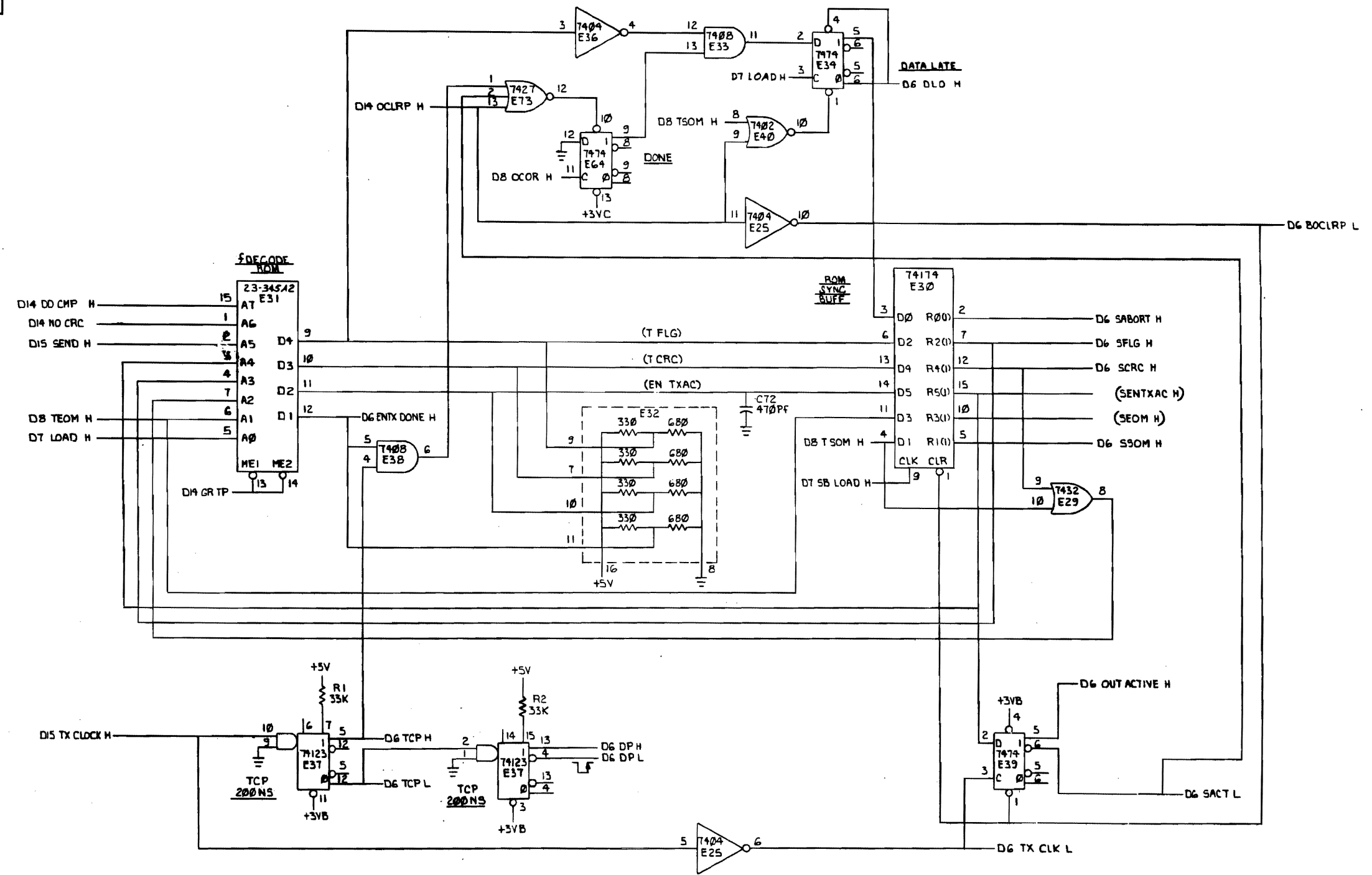
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C	R	O	M	SELECTED	OCT
T	6	S	4	OUTPUT	ADD
L	L	L	L	LU MAINT	17
L	L	L	H	ADDR	16
L	L	H	L	LINE NR	15
L	L	H	H	LU SYNC	14
L	H	L	L	MODEM CON	13
L	H	L	H	LU IN CON	12
L	H	H	L	LU OUT CON	11
L	H	H	H	IN DATA	10



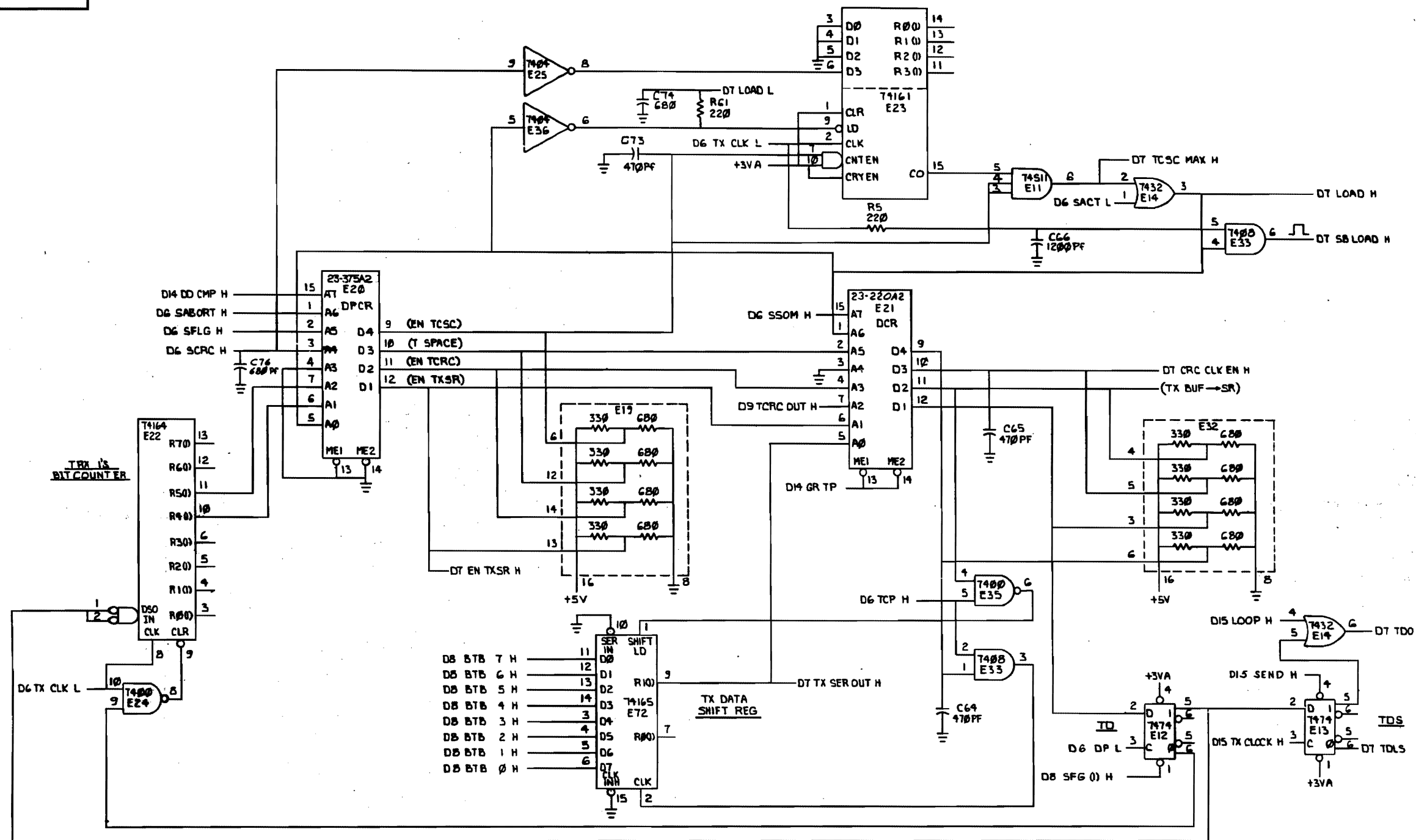
REVISIONS		
CHK	CHANGE NO.	REV.

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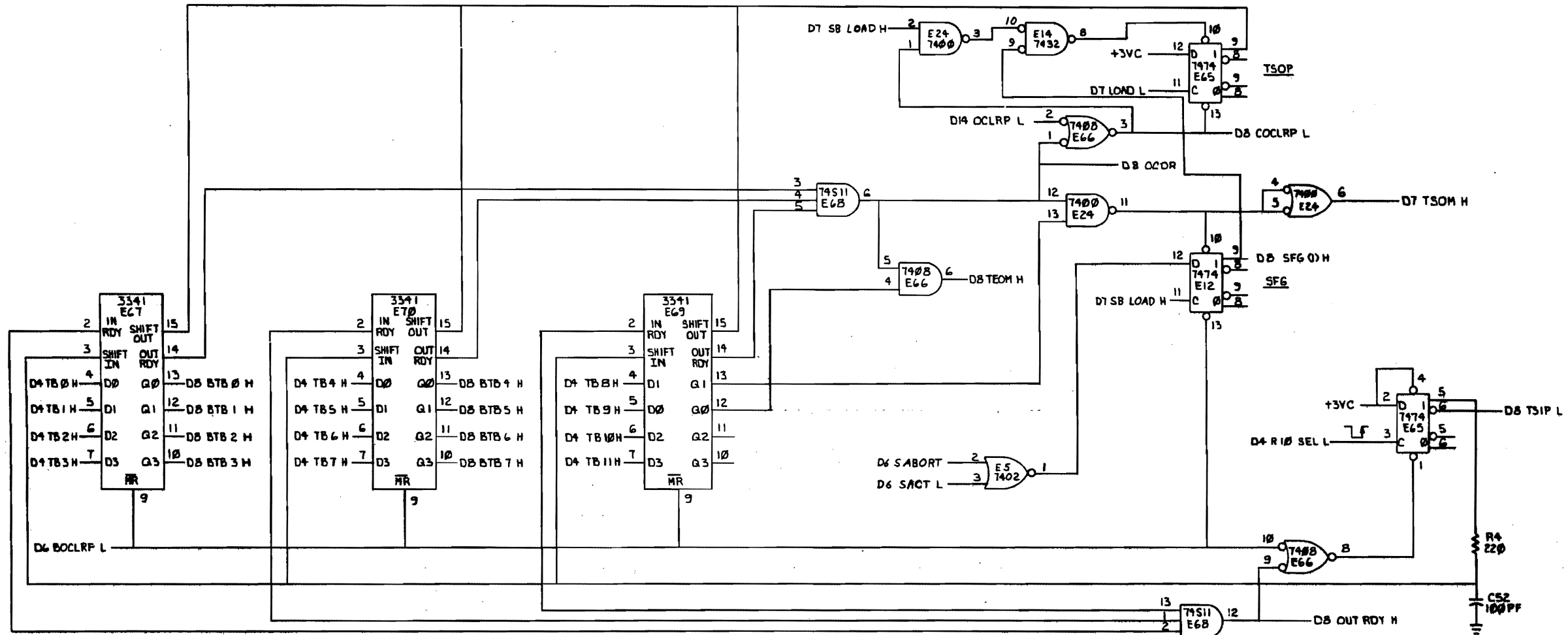
REVISIONS		
CHK	CHANGE NO.	REV.

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REV.	CHANGE NO.	DATE

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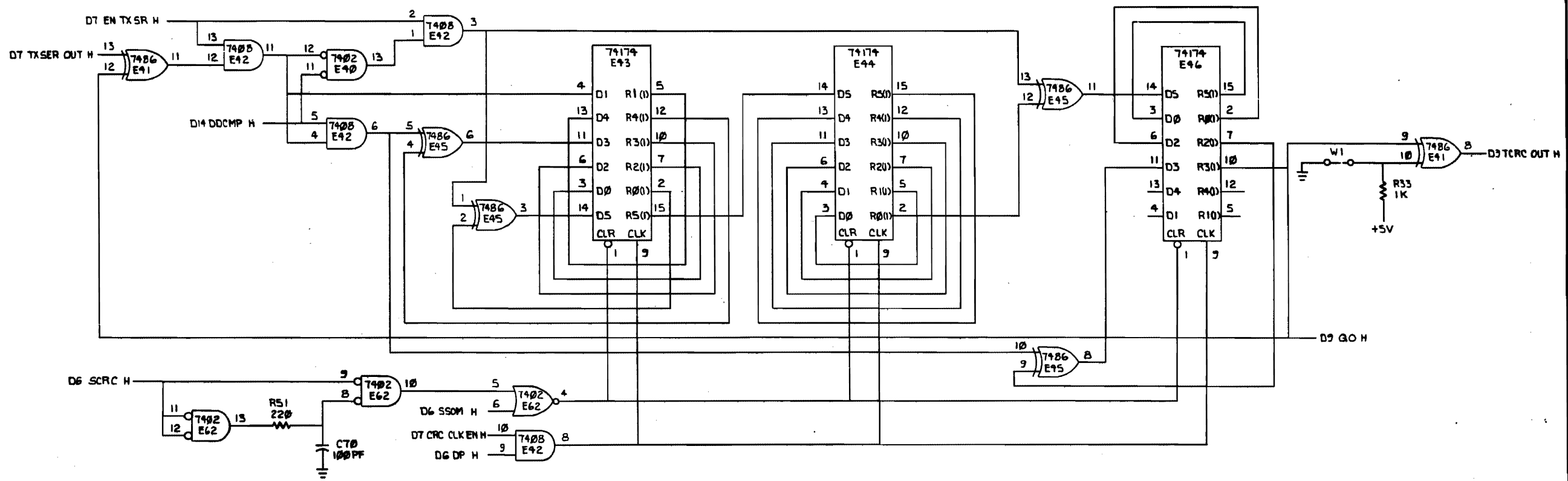


REVISIONS		
CHK	CHANGE NO.	REV.

(OUT DATA SILO)		TITLE	SIZE CODE	NUMBER	REV.
		IPL SLU LOW	(DB)	DCS M8201-0-1	E
SCALE	1:1	SHEET	8	OF	16

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DCS M8201-0-1 2

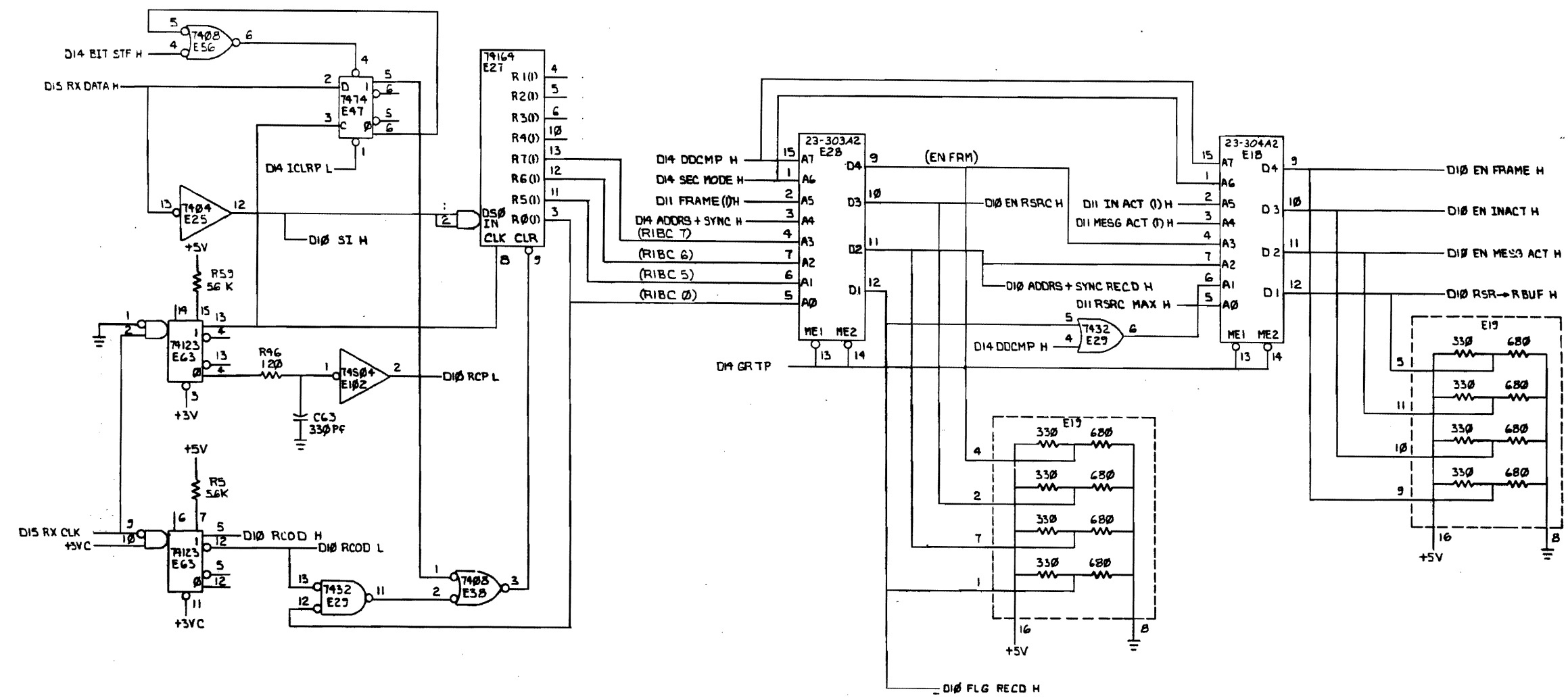


REVISIONS		
CHK	CHANGE NO.	REV.

(TX CRC CONTROL)

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

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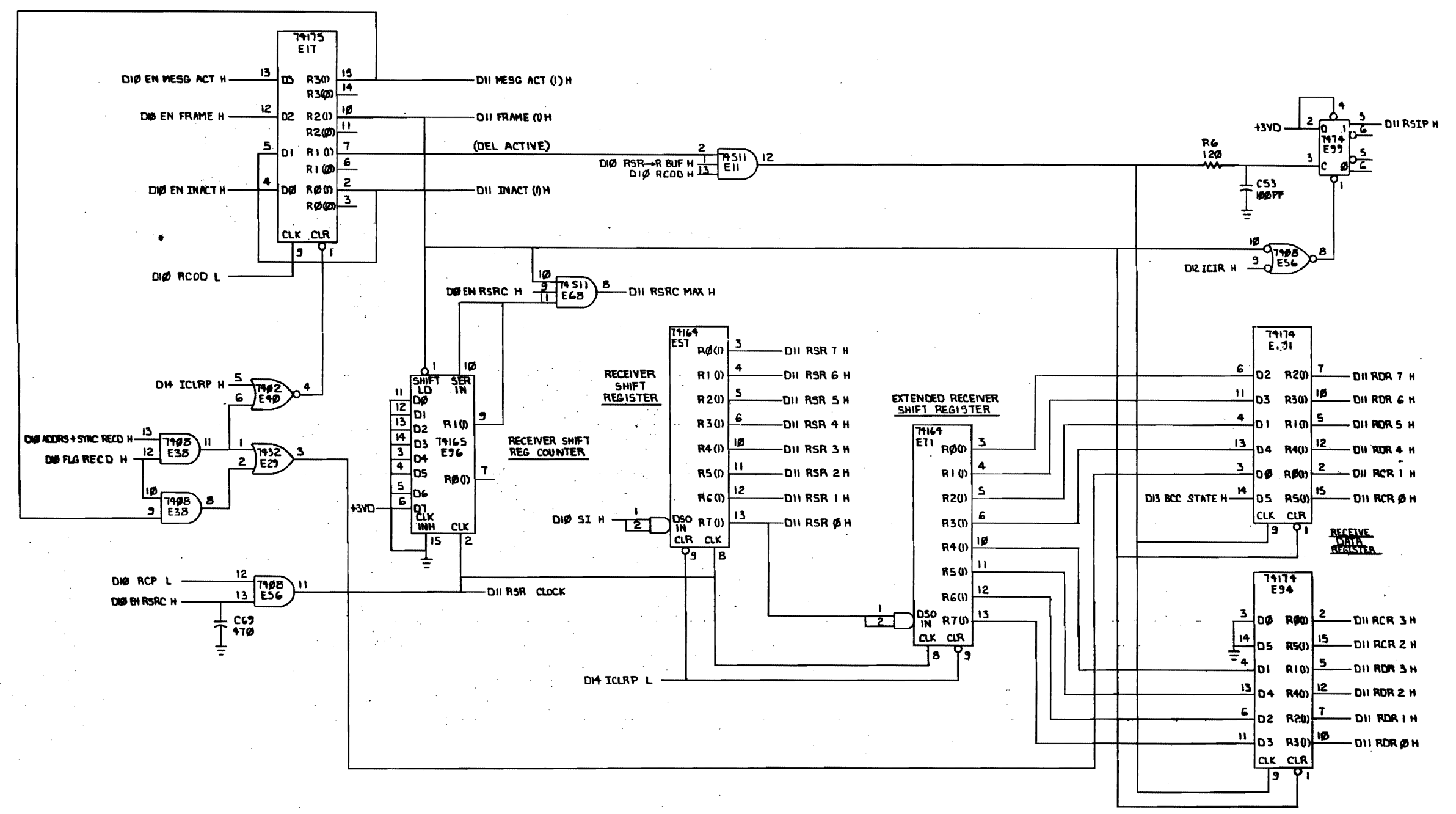


REVISIONS		
CHK	CHANGE NO.	REV.

(RX CONTROL)

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

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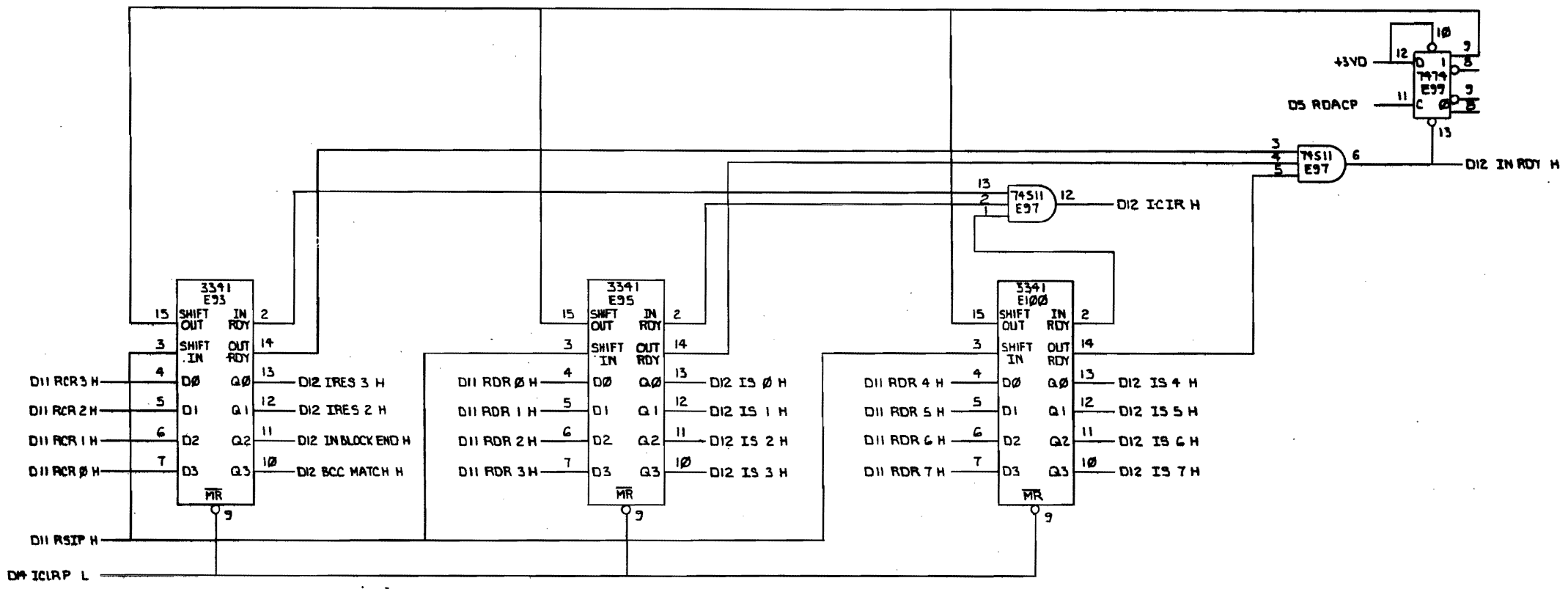


REVISIONS		
CHK	CHANGE NO.	REV.

(RX CONTROL II)

TITLE	IPL SLU LOW	SIZE/CODE	DCS	NUMBER	M8201-0-1	REV.	E
SCALE	1/1	SHEET	11	OF	16	DIST.	

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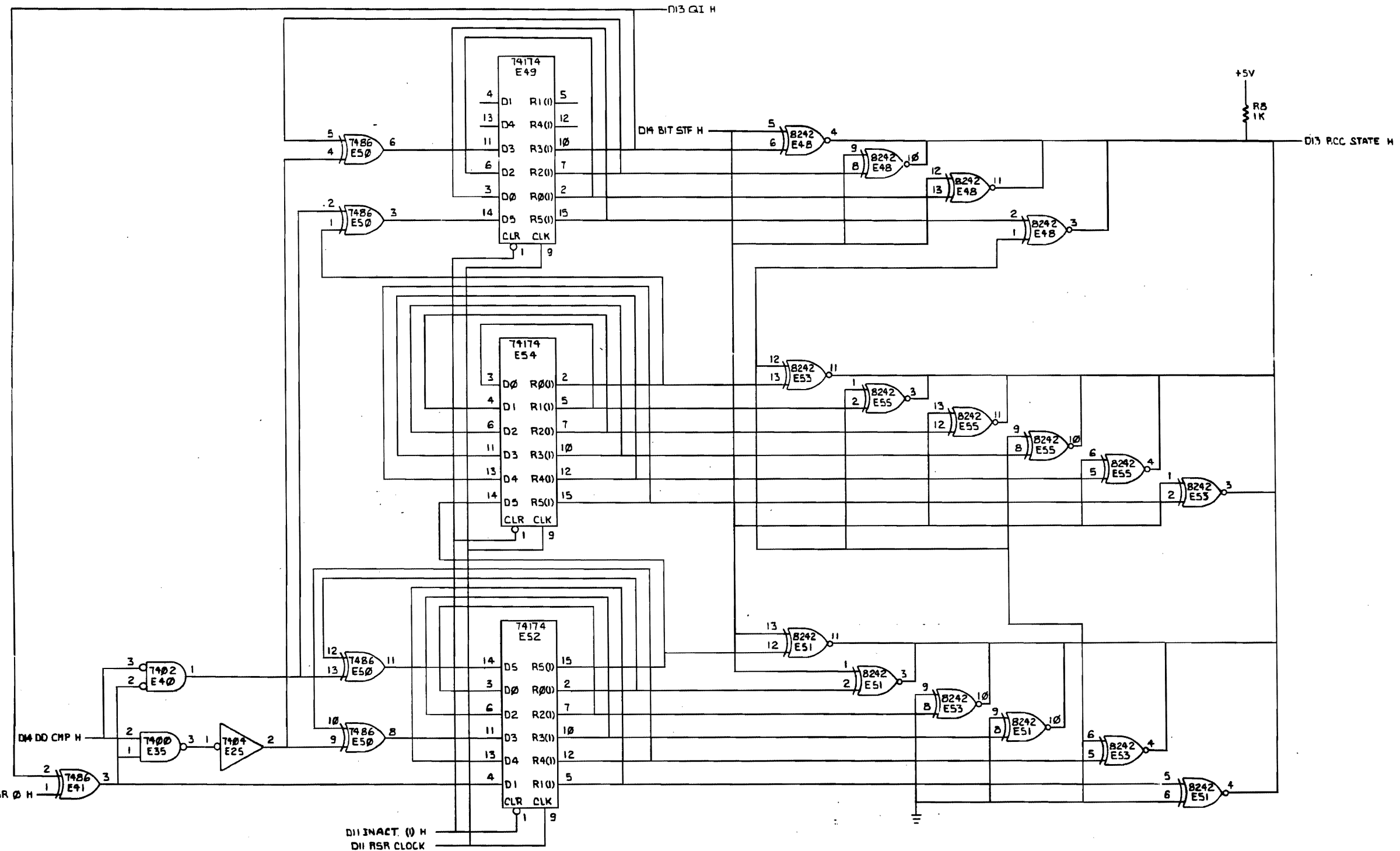


REVISIONS		
CHK	CHANGE NO.	REV.

(IN DATA SILO)

TITLE	IPL SLU LOW	SIZE CODE	012	DCS	NUMBER	M8201-0-1	REV.	E
SCALE	1:1	SHEET	2	OF	16	DRY.		

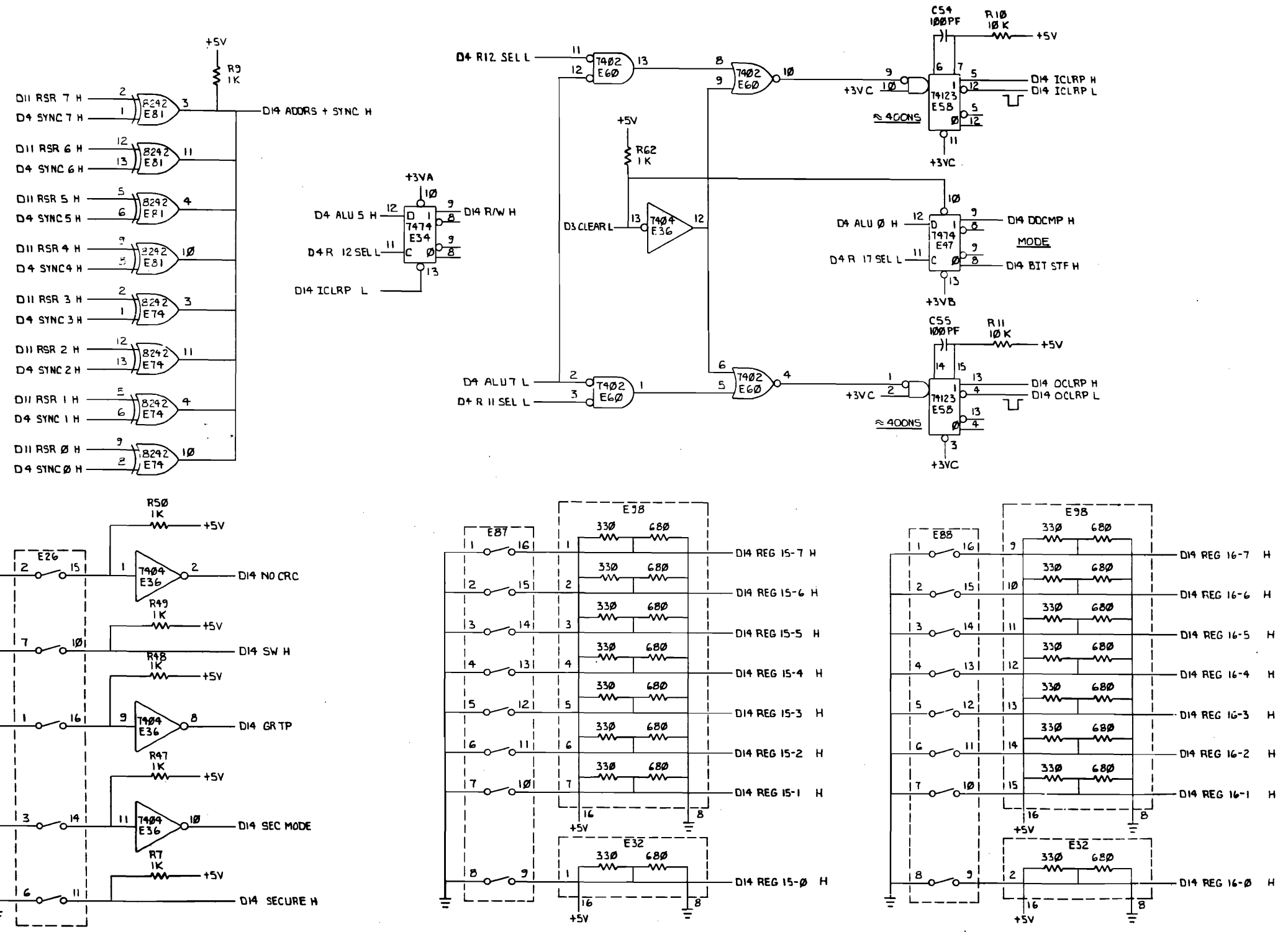
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE			SCALE		SHEET		OF		DWT.		NUMBER		REV.	
IPL SLU LOW			---		3		OF		16		DCS M8201-0-1		E	

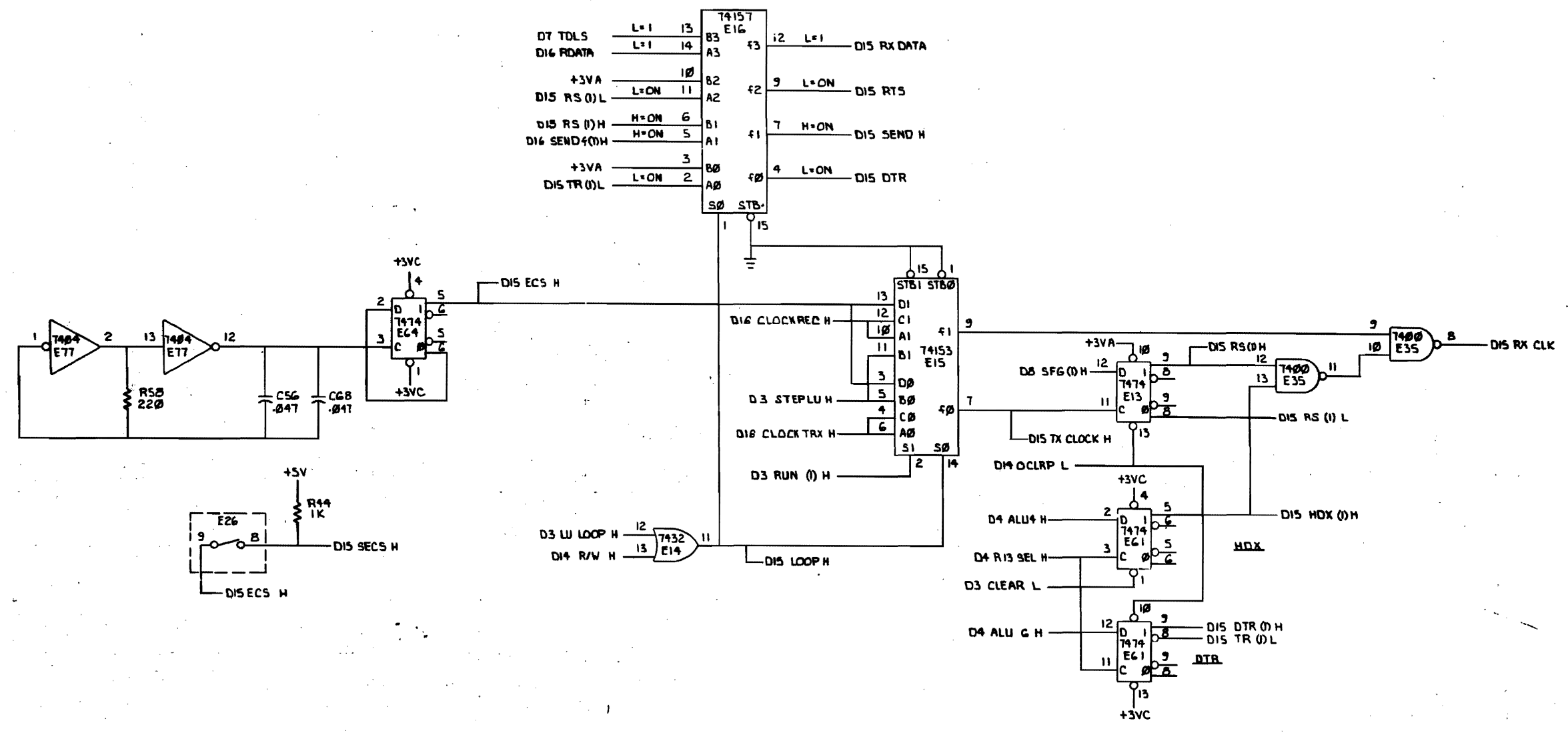
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	IPL SLU LOW (D14)	SIZE CODE	DCS	NUMBER	M8201-0-1	REV.	E
SCALE	++	SHEET	4	OF	16	DIST.	

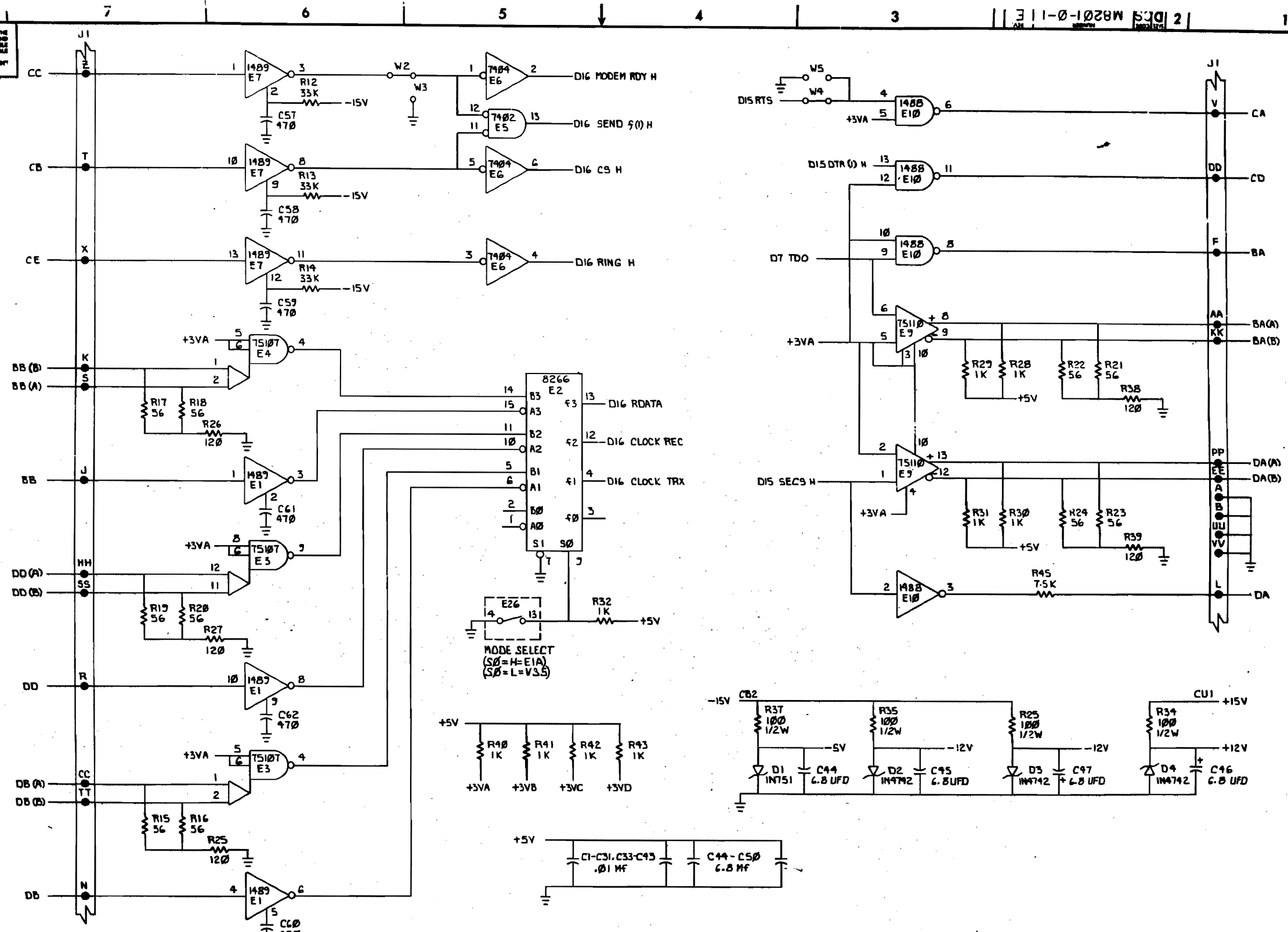
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 EQUIPMENT CORPORATION



D7 TDLS	L=1	13	B3	f3	12	L=1	DIS RX DATA
D16 RDATA	L=1	14	A3	f3	12	L=1	DIS RX DATA
+3VA			10				
D15 RS (0) L	L=ON	11	B2	f2	9	L=ON	DIS RTS
D15 RS (1) H	H=ON	6	A2	f2	9	L=ON	DIS RTS
D16 SEND (0) H	H=ON	5	B1	f1	7	H=ON	DIS SEND H
D16 SEND (1) H	H=ON	5	A1	f1	7	H=ON	DIS SEND H
+3VA		3	B0	f0	4	L=ON	DIS DTR
D15 TR (0) L	L=ON	2	A0	f0	4	L=ON	DIS DTR

REVISIONS		
CHK	CHANGE NO.	REV.

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 THEREOF WITHOUT PERMISSION
 OF THE EQUIPMENT CORPORATION



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE IPL SLU LOW		SIZE CODE DCS	NUMBER M8201-0-1	REV. E
SCALE 1:1	SHEET 16	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 S.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,E77,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 75107B 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.			
CHK	ECO NO	REV		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION	
R.R	00004	E	00	MADE BY: R. KOPPENAL		MAYNARD, MASSACHUSETTS	
				DATE: 09-MAR-78		TITLE	
				CHECKED: KENT GLEEZEN		PARTS LIST	
				DATE: 09-MAR-78		IPL SLU LOW	
				DSN.ENG.: R.M.SMITH		SIZE CODE DOCUMENT NUMBER REV	
				DATE: 09-MAR-78		K PL M8201-0-0 E	
				PROD.: R. WALL		EDIT#	
				RESP.ENG.: R.M. SMITH		ASSY.NO.: D-UA-M8201-0-0 4	

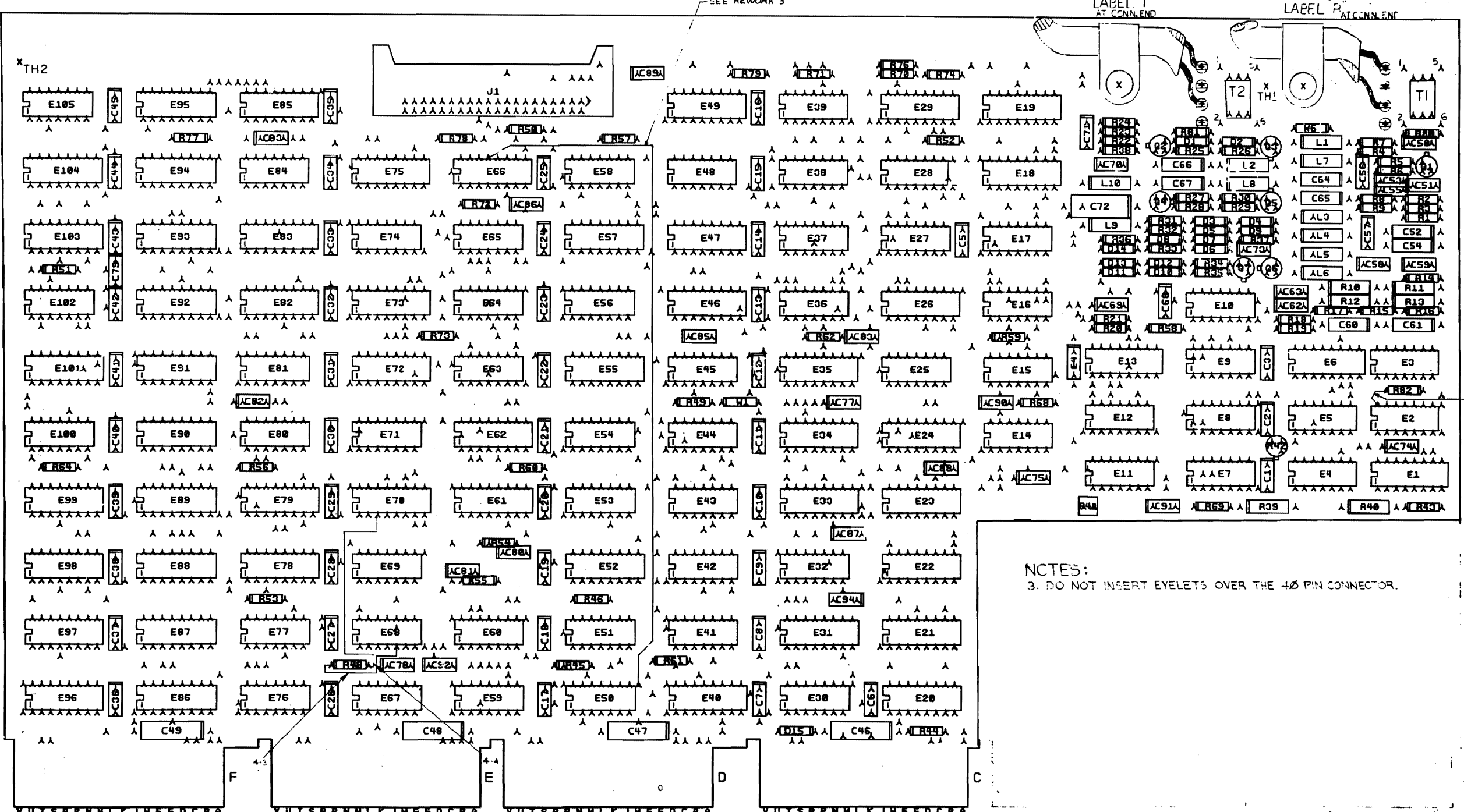
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
29	29		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E73
30	30		1911521-00	7432 OR GATE-QUAD 2IN, POSITIVE	2	E14,E29
31	31		1911675-00	74S138 DECODER-THREE INPUT	1	E82
32	32		1910534-00	74S04 INVERTER GATE-HEX 1IN	1	E102
33	33		1912346-00	74165 SHIFT REG.,8BIT PARALLEL IN/OU	2	E72,E96
34	34		1912664-00	75110 DRIVER,LINE,DUAL,12 MA	1	E9
35	35		2111188-00	3341 64X4 FIFD 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 (13-00	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	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	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	1	C66
56	56		9107256-10	TUBING,THIN WALL,.027ID UL A/R		
57	57		1000026-00	680.0 MMF 100V 5%200PPM DM15S	2	C74,C76
58	58		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	3	W1,W2,W4
59	59		1209941-02	HEADER 100 40FDS 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				

REFER TO NOTE 1 COMPONENT SIDE VIEW



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

NOTES:
1. PIN 9C-CB356-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 & R8 ARE OPTIONAL COMPONENTS.

CHANGE NO	REV	DATE	BY	CHK'D
1	1	12-14-77	B. SMITH	
2	1	12-14-77	R. SMITH	
3	1	12-14-77	P. PALOISI	

SYMBOL	HOLE DATA									
	+	+	X	+	Z	M	Δ	□	◇	×
FIN HOLE SIZE	0.05	0.038	0.154							
PLATED	X	X	X							
NON PLATED										
QTY.	2675	4								
○-OFF GRD HLE										
DRILL SIZE										

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

SIGNATURES	DATE	TITLE
DRN. J. B. ...	12-14-77	digital
CHK'D. ...		
PROJ. ENG. ...		IPL SLJ HI
PROD. ...		
SCALE 2:1		SIZE CODE NUMBER
SHT. 1 OF 1		D UA M8202-0-0
NEXT HIGHER ASSY. B-D0-M8202-0		REV. H

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REWORK INSTRUCTIONS

- D 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)

REVISIONS		
CHK	CHANGE NO.	REV.

H 0-0-2028W D 2 1

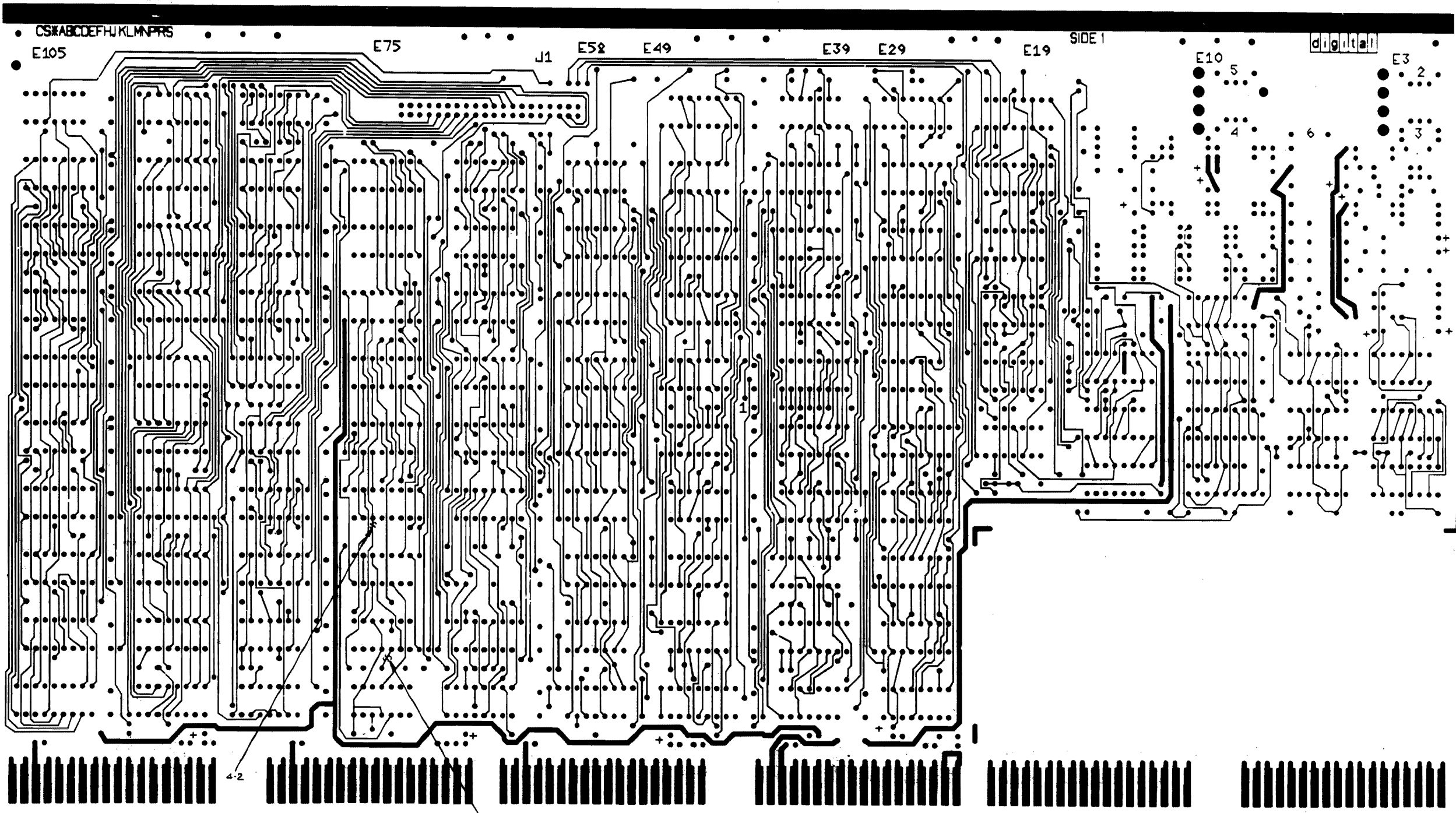
D
C
B
A

TITLE IPL SLU HI
 SCALE SHEET 2 OF 4
 SIZE CODE DUA
 NUMBER M8202-C-0
 REV. 1

8 7 6 5 4 3 2 1

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2 | UAM8202-0-0 | H |



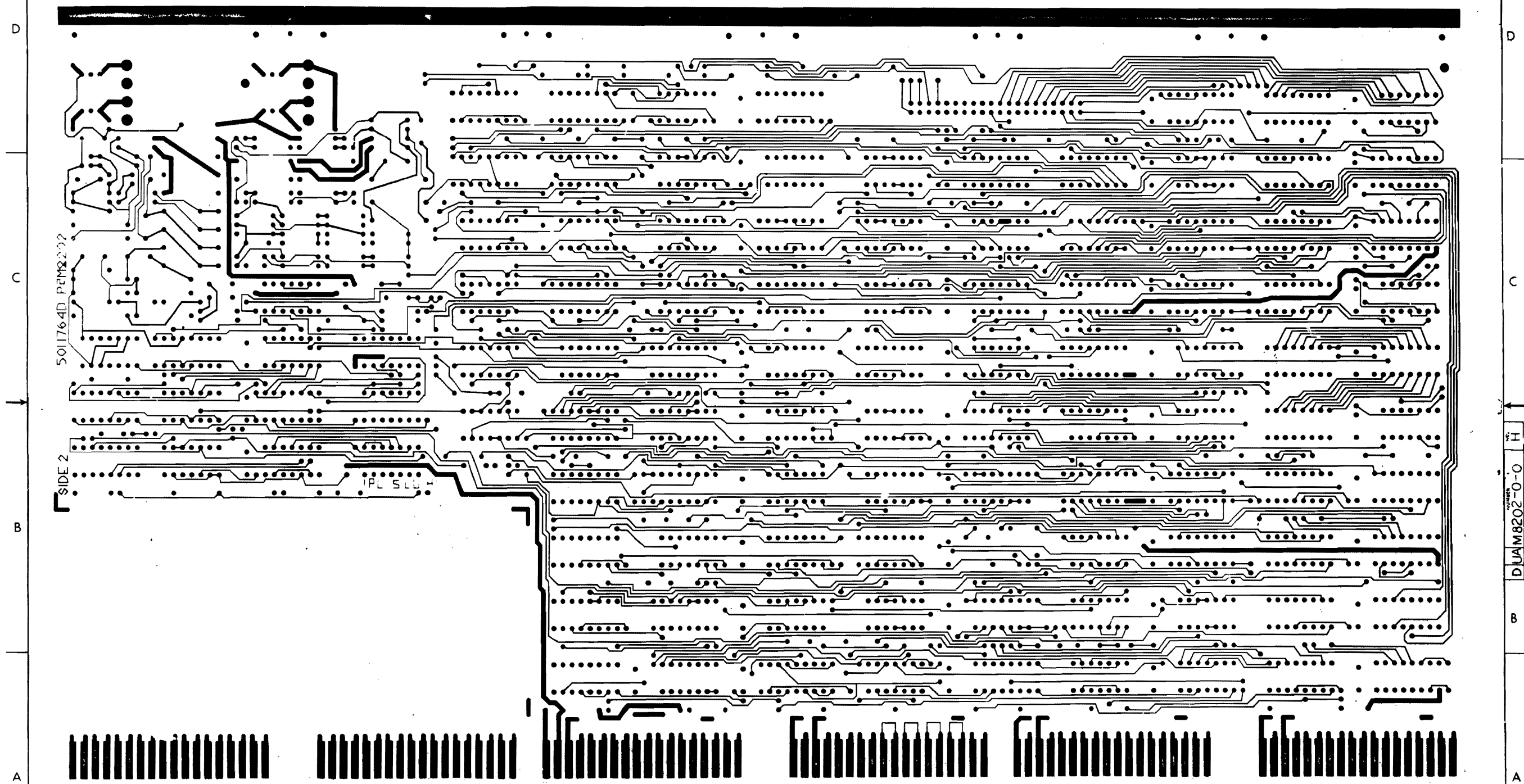
D | UAM8202-0-0 | H |

REVISIONS		
CHK	CHANGE NO	REV

TITLE	IPL SLU HI	SCALE	DUAL	DATE	1974	REV	H
DATE	1974	SHEET	7	OF	4		

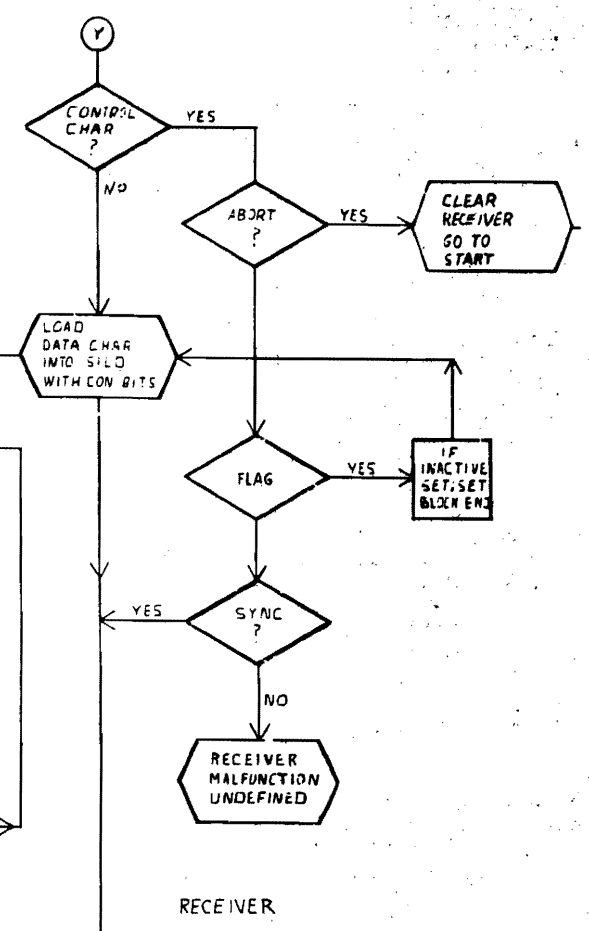
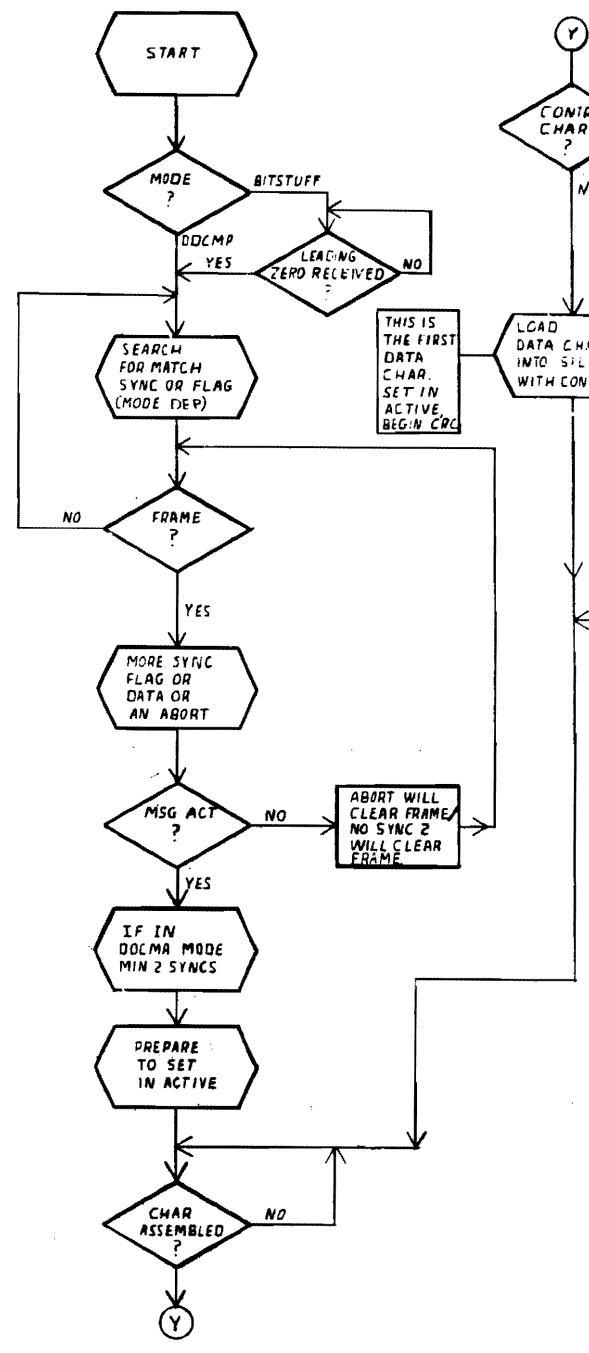
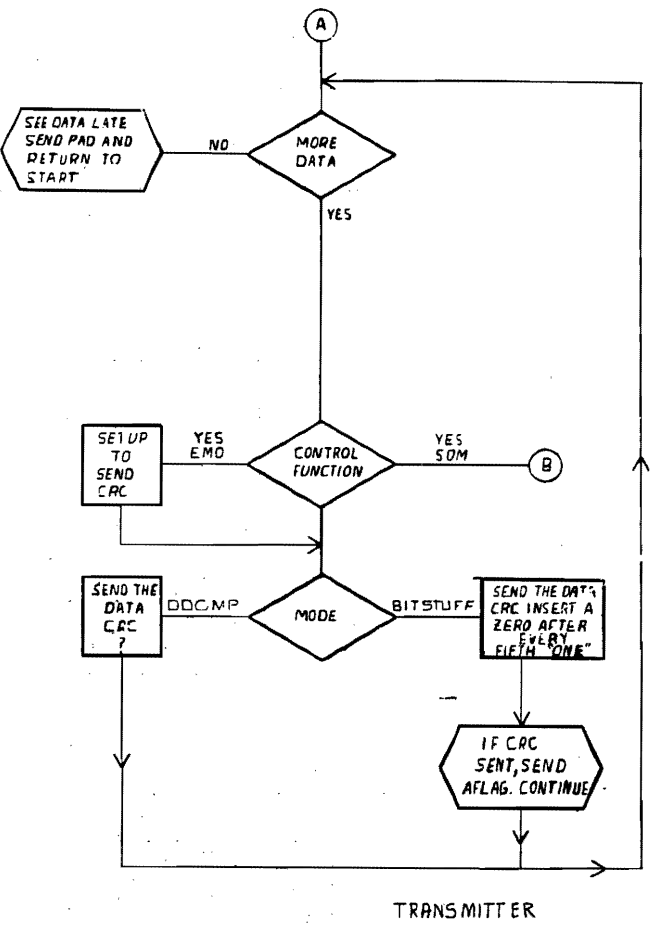
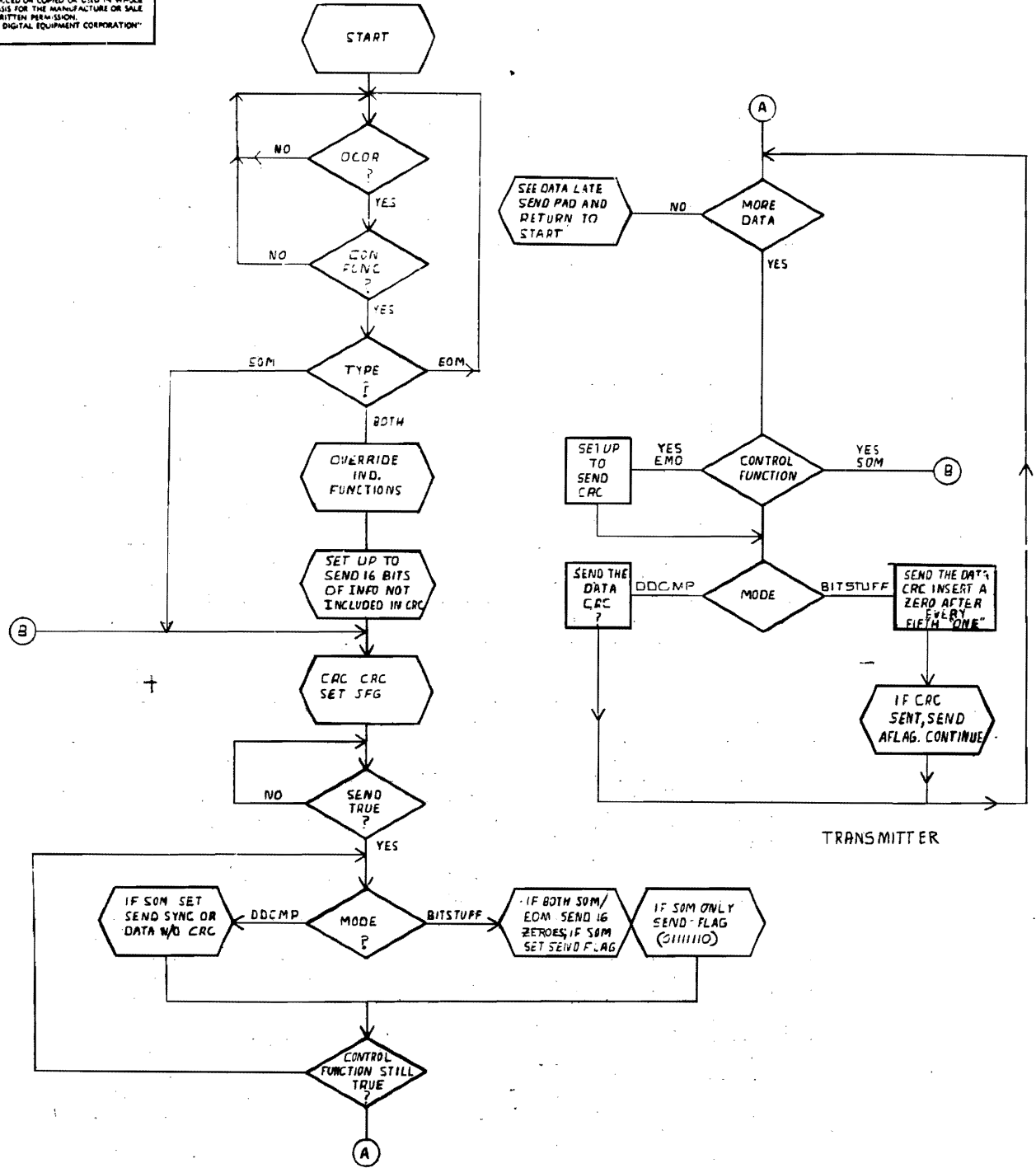
8 7 6 5 4 3 2 1

DATE: 01/1974



CHK	CHANGE NO	REV

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REV	CHANGE NO.	DATE	BY	CHKD
1	00001	8-23-76	B. SMITH	
2	00002	11-17		
3	00003	12-27		
4	00004	1-27		
5	00005	1-27		
6	00006	3-1-78		
7	00007			
8	00008			

DEVICE FLOW		FIRST USED ON	
DRN	C. Smith	21 JAN 76	DMC 11
CHKD	B. Smith	4-26-76	
ENG	B. Smith	4-26-76	
PROJ. ENG.	B. Smith	4-26-76	
PROD.	R. White	4-26-76	
NEXT HIGHER ASSY.			
D-UA-M8202-0-0	SIZE CODE	NUMBER	REV.
SCALE	D CS	M8202-0-1	J
SHEET 1	OF 16	DIST.	

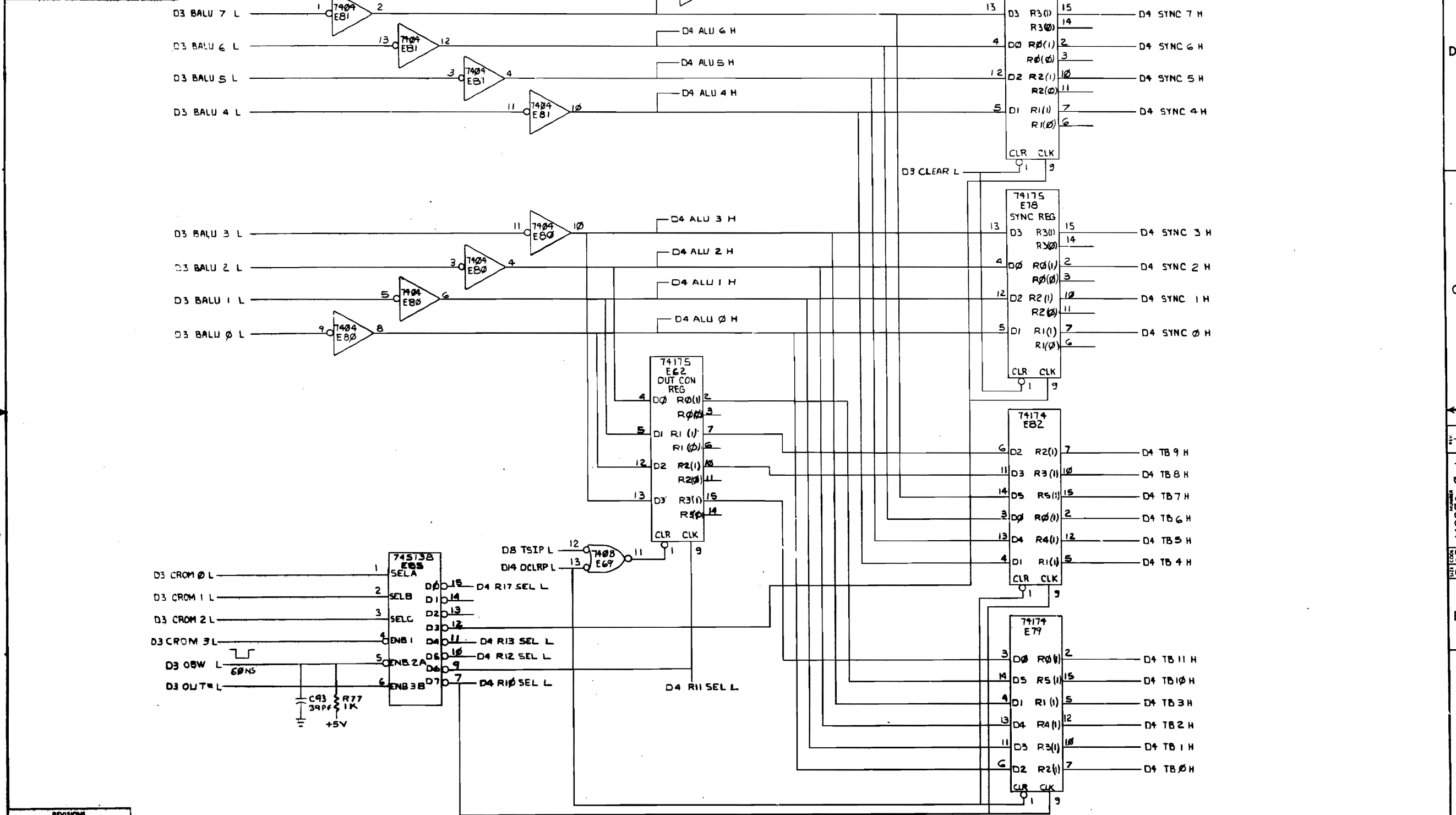
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SIGNAL NAME	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D3 CROM 0 L (JI-PP)	X	X												
D3 CROM 1 L (JI-UU)	X	X												
D3 CROM 2 L (JI-SF)	X	X												
D3 CROM 3 L (JI-HR)	X	X												
D3 CROM 4 L (JI-Y)	X	X												
D3 CROM 5 L (JI-AA)	X	X												
D3 CROM 6 L (JI-CC)	X	X												
D3 BT 24# (B) H (JI-V)	X	X												
D3 IPR # H (JI-Z)	X	X												
D3 ISR L (JI-J)	X	X												
D3 OB# L (JI-TT)	X	X												
D3 OUT # L (JI-X)	X	X												
D3 BALU 0 (1) L (JI-DD)	X	X												
D3 BALU 1 (1) L (JI-EE)	X	X												
D3 BALU 2 (1) L (JI-VV)	X	X												
D3 BALU 3 (1) L (JI-FF)	X	X												
D3 BALU 4 (1) L (JI-LL)	X	X												
D3 BALU 5 (1) L (JI-KK)	X	X												
D3 BALU 6 (1) L (JI-JJ)	X	X												
D3 BALU 7 (1) L (JI-MM)	X	X												
D3 CLEAR L (JI-E)	X	X										X	X	
D3 LU LOOP H (JI-A)	X	X											X	
D3 STEP 10 H (JI-B)	X	X												X
D3 RUN (1) H (JI-C)	X	X												X
D4 ALU 7 L	X											X	X	
D4 ALU 6 H	X											X	X	
D4 ALU 5 H	X											X	X	
D4 ALU 4 H	X											X	X	
D4 ALU 3 H	X											X	X	
D4 R18 SEL L	X											X	X	
D4 R17 SEL L	X											X	X	
D4 R16 SEL L	X											X	X	
D4 R15 SEL L	X											X	X	
D4 R14 SEL L	X											X	X	
D4 R13 SEL L	X											X	X	
D4 R12 SEL L	X											X	X	
D4 R11 SEL L	X											X	X	
D4 R10 SEL L	X											X	X	
D4 SYNC 7 H	X	X										X	X	
D4 SYNC 6 H	X	X										X	X	
D4 SYNC 5 H	X	X										X	X	
D4 SYNC 4 H	X	X										X	X	
D4 SYNC 3 H	X	X										X	X	
D4 SYNC 2 H	X	X										X	X	
D4 SYNC 1 H	X	X										X	X	
D4 SYNC 0 H	X	X										X	X	
D4 TB11 H	X											X	X	
D4 TB10 H	X											X	X	
D7 CROM 7 L (H)	X	X												

SIGNAL NAME	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D4 TB 9 H		X					X							
D4 TB 8 H		X					X							
D4 TB 7 H		X					X							
D4 TB 6 H		X					X							
D4 TB 5 H		X					X							
D4 TB 4 H		X					X							
D4 TB 3 H		X					X							
D4 TB 2 H		X					X							
D4 TB 1 H		X					X							
D4 TB 0 H		X					X							
D5 LU 1 BUS 0 H (JI-D)	X	X												
D5 LU 1 BUS 1 H (JI-F)	X	X												
D5 LU 1 BUS 2 H (JI-S)	X	X												
D5 LU 1 BUS 3 H (JI-U)	X	X												
D5 LU 1 BUS 4 H (JI-NN)	X	X												
D5 LU 1 BUS 5 H (JI-HH)	X	X												
D5 LU 1 BUS 6 H (JI-EE)	X	X												
D5 LU 1 BUS 7 H (JI-W)	X	X												
D5 RDACP L		X								X				
D6 EN TX DONE				X	X					X	X			
D6 SABORT H				X	X					X	X			
D6 SFLG H				X	X					X	X			
D6 SCRC H				X	X		X			X	X			
D6 DPL				X	X					X	X			
D6 TCP H				X	X					X	X			
D6 SSON				X	X	X				X	X			
D6 BOCCLRP L				X	X					X	X			
D6 SACT L				X	X					X	X			
D6 OUT ACTIVE H				X	X	X				X	X			
D7 CRC CLK EN H				X	X		X			X	X			
D6 DP H				X	X		X			X	X			
D7 EN TXSR				X	X		X			X	X			
D7 LOAD L				X	X		X			X	X			
D7 LOAD H				X	X		X			X	X			
D7 TX SER OUT H				X	X		X			X	X			
D7 TDLS				X	X		X			X	X			X
D7 MAX H				X	X		X			X	X			X
D7 TCSC MAX H				X	X	X				X	X			
D7 SB LOAD H				X	X		X			X	X			
D8 COCLRP L			X							X	X			
D8 OCOR H			X	X	X					X	X			
D8 OUT RDY			X	X	X					X	X			
D8 SF6 (1) H			X	X	X					X	X			X
D8 TEOM H			X	X	X					X	X			
D8 TSON H			X	X	X					X	X			
D8 BTB 7 H			X	X	X					X	X			
D8 BTB 6 H			X	X	X					X	X			
D8 BTB 5 H			X	X	X					X	X			
D8 BTB 4 H			X	X	X					X	X			
D8 BTB 3 H			X	X	X					X	X			
D8 BTB 2 H			X	X	X					X	X			
D8 BTB 1 H			X	X	X					X	X			
D8 BTB 0 H			X	X	X					X	X			
D9 TCRC OUT H			X		X					X	X			

SIGNAL NAME	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D9 00 H			X					X						
D10 S1 H			X					X	X					
D10 RCOD H								X	X					
D10 EN RSRC H								X	X					
D10 FLG RECD H								X	X					
D10 ADDR & SYNC RECD H								X	X					
D10 EN FRAME H								X	X					
D10 EN INACT H								X	X					
D10 EN MESH ACT H								X	X					
D10 RSR -> R BUF H								X	X					
D11 FRAME (1) H								X	X					
D11 IN ACTIVE (1) H			X					X	X	X				
D11 MESH ACT (1) H								X	X					
D11 RSR CLOCK H								X	X		X			
D11 RSRC MAX H								X	X					
D11 RSP H								X	X	X				
D11 RDR 07 H								X	X					
D11 RDR 06 H								X	X					
D11 RDR 05 H								X	X					
D11 RDR 04 H								X	X					
D11 RDR 03 H								X	X					
D11 RDR 02 H								X	X					
D11 RDR 01 H								X	X					
D11 RDR 00 H								X	X					
D11 RCR 3 H								X	X					
D11 RCR 2 H								X	X					
D11 RCR 1 H								X	X					
D11 RSR 7 H								X	X	X				
D11 RSR 6 H								X	X	X				
D11 RSR 5 H								X	X	X				
D11 RSR 4 H								X	X	X				
D11 RSR 3 H								X	X	X				
D11 RSR 2 H								X	X	X				
D11 RSR 1 H								X	X	X				
D11 RSR 0 H								X	X	X				
D12 IN RDY H								X			X			
D12 IS 7 H								X			X			
D12 IS 6 H								X			X			
D12 IS 5 H								X			X			
D12 IS 4 H								X			X			
D12 IS 3 H								X			X			
D12 IS 2 H								X			X			
D12 IS 1 H								X			X			
D12 IS 0 H								X			X			
D12 IRES 1 H								X			X			
D12 IRES 2 H								X			X			
D12 BCC MATCH								X			X			
D12 IN BLOCK END H								X			X			
D12 ICIR H								X			X			
D13 Q1 H								X			X			
D13 BCC STATE H								X			X			
D14 DDCMP H								X	X	X	X	X		
D14 ICLRP H														

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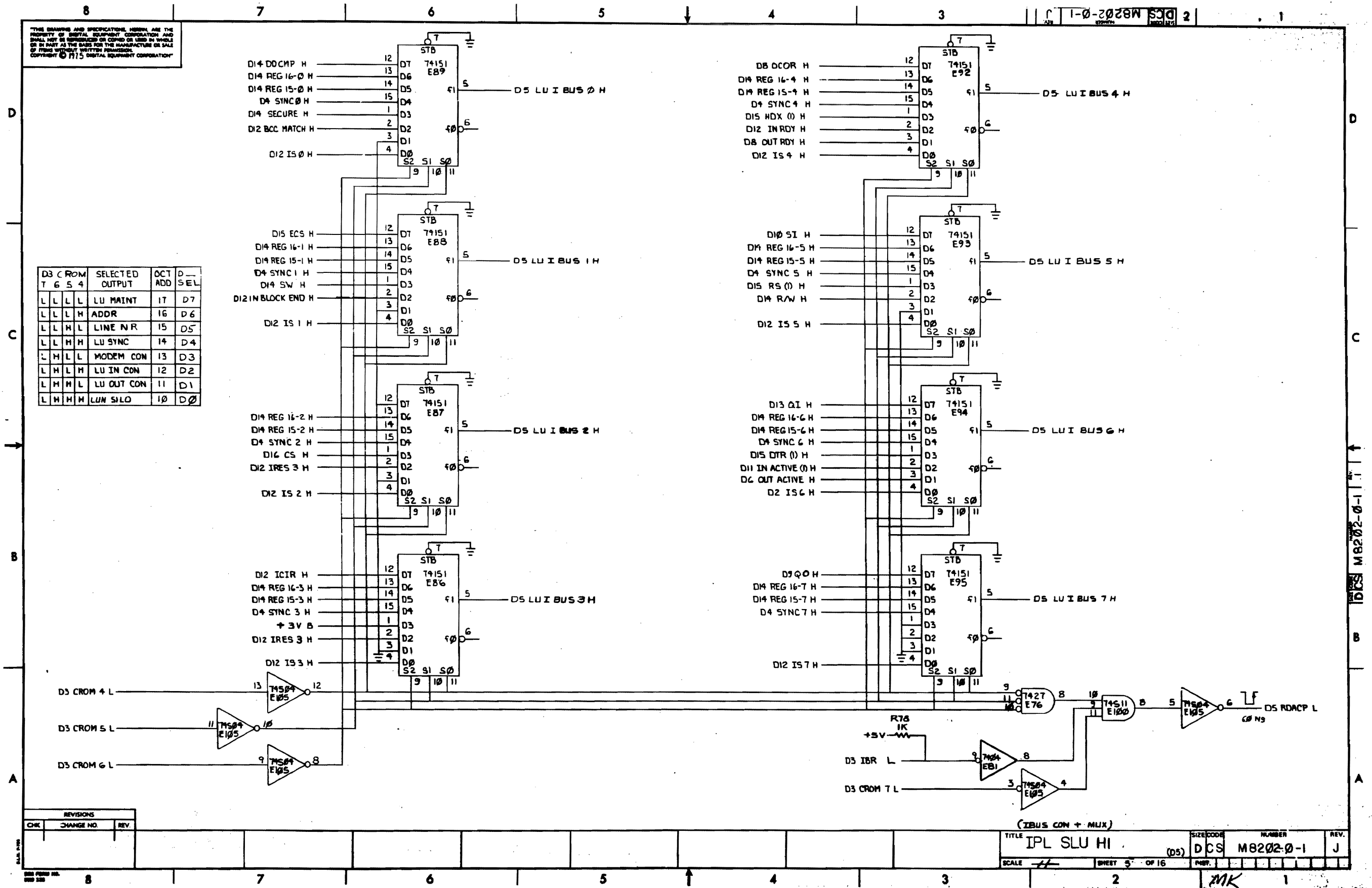


REVISIONS		
CHK	CHANGE NO	REV

(D3 BUS CON + REG)		TITLE	SIZE CODE	NUMBER	REV.
IPL SLU HI		(04) DCS	M8202-0-1	J	
SCALE	SHEET	OF	TOTAL	DIST.	
	4	OF	16		

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DCS M8202-0-1 2



D3 CROM	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 SLO	10	D0

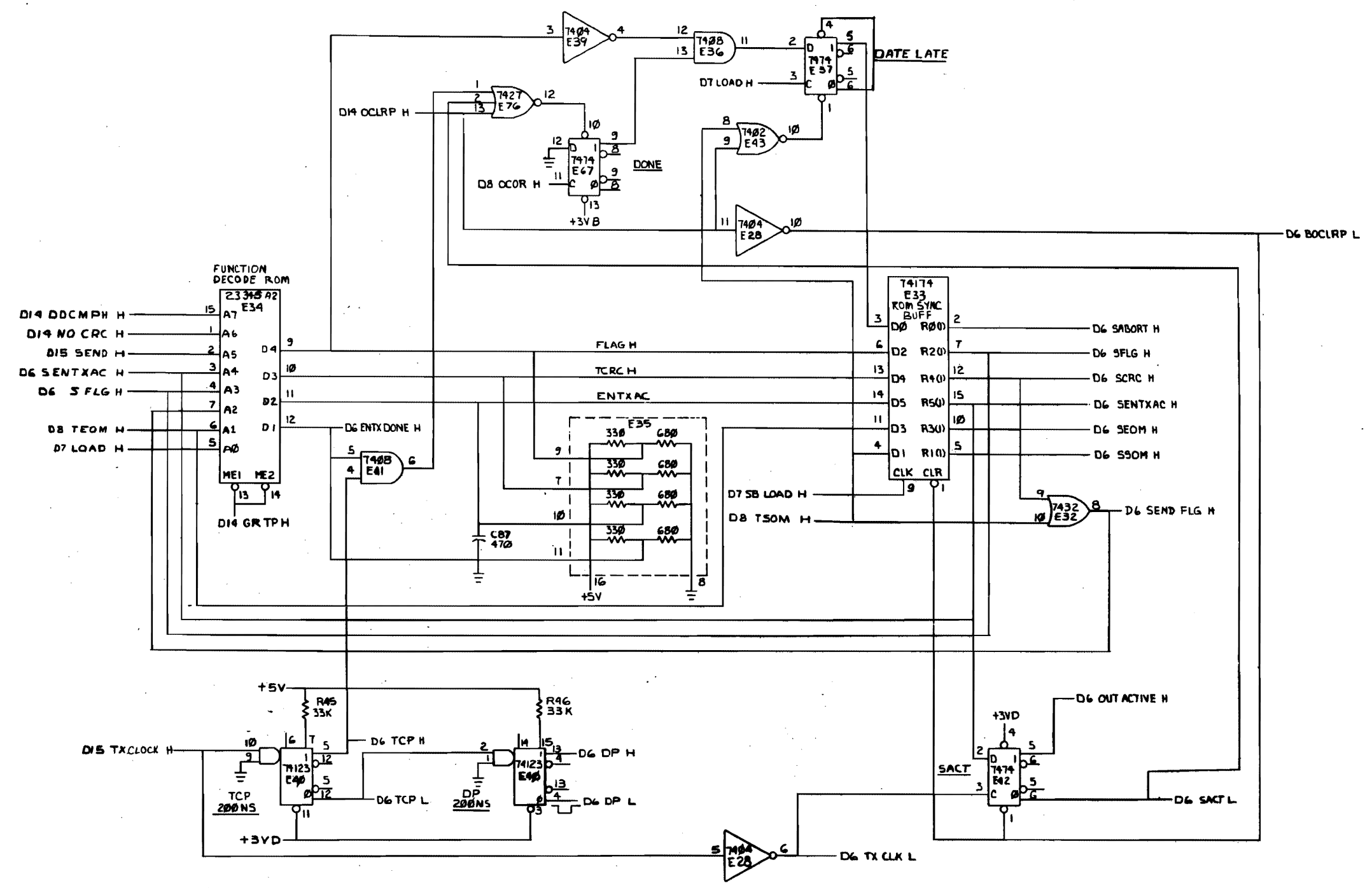
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		NUMBER		REV.
IPL SLU HI		DCS M8202-0-1		J
SCALE	SHEET	OF	TOTAL	DATE
	5	OF	16	

MK

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1-0-2028W S3D 2

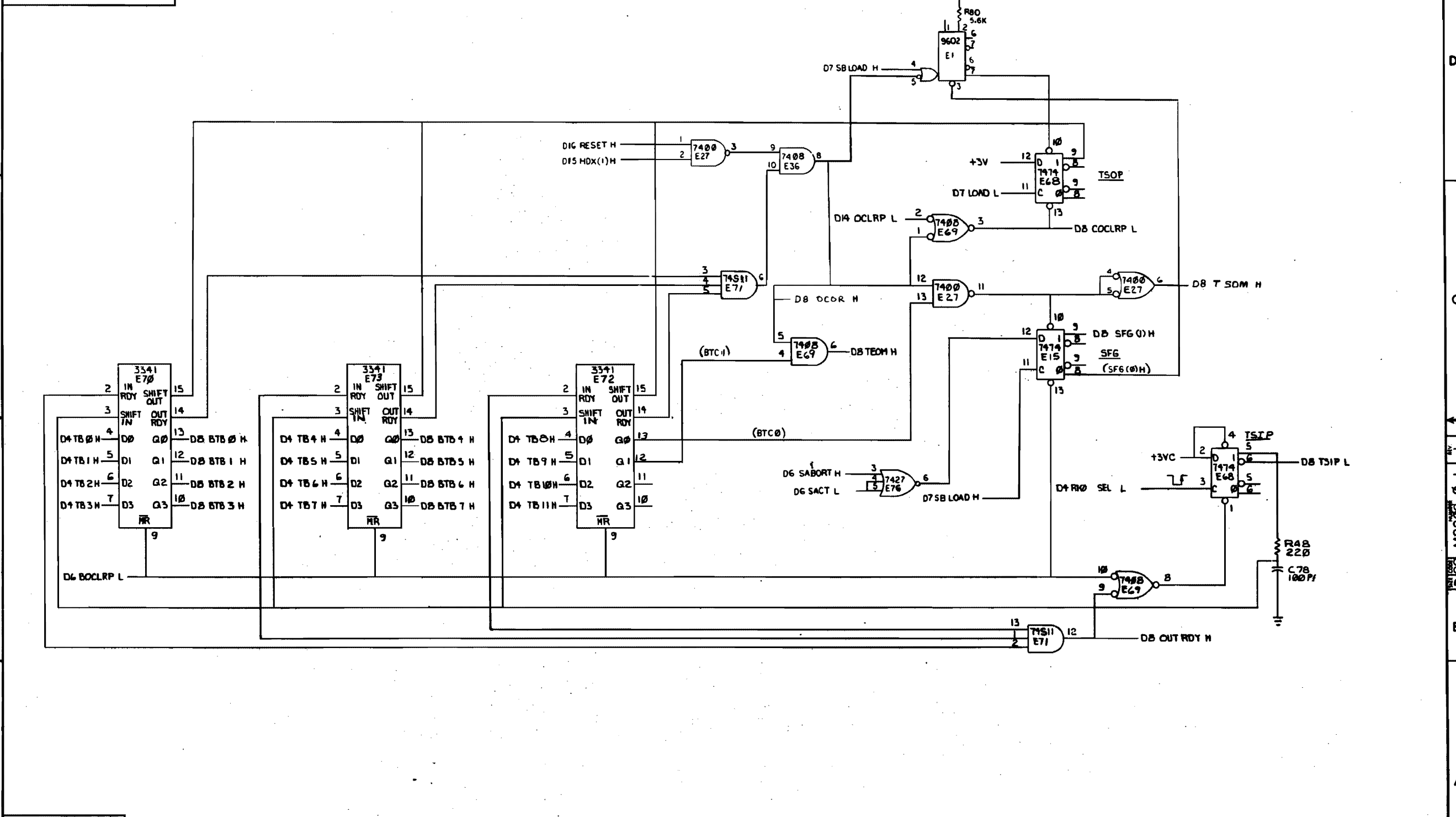


REVISIONS		
CHK	CHANGE NO.	REV

(TX CONTROL 2)		TITLE	SIZE CODE	NUMBER	REV.
IPL SLU HI		(D6) DCS	M8202-0-1	J	
SCALE	SHEET	OF	TOTAL	DATE	
	6	18			

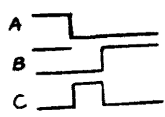
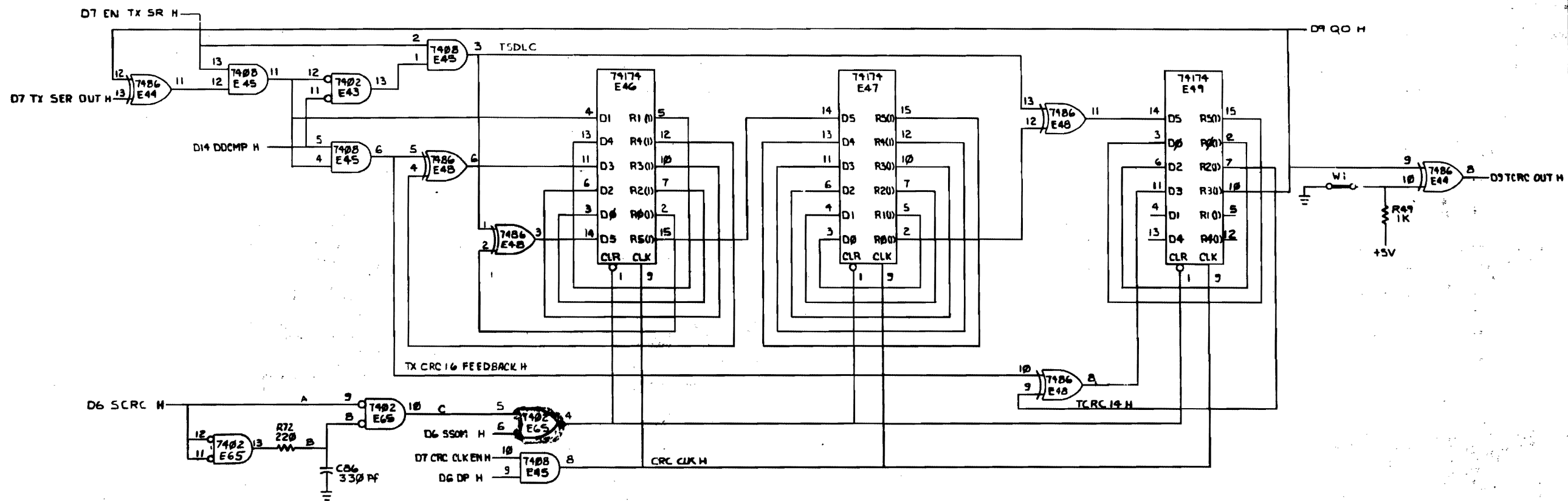
DCS M8202-0-1 J

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REVISIONS		
CHK	CHANGE NO.	REV.

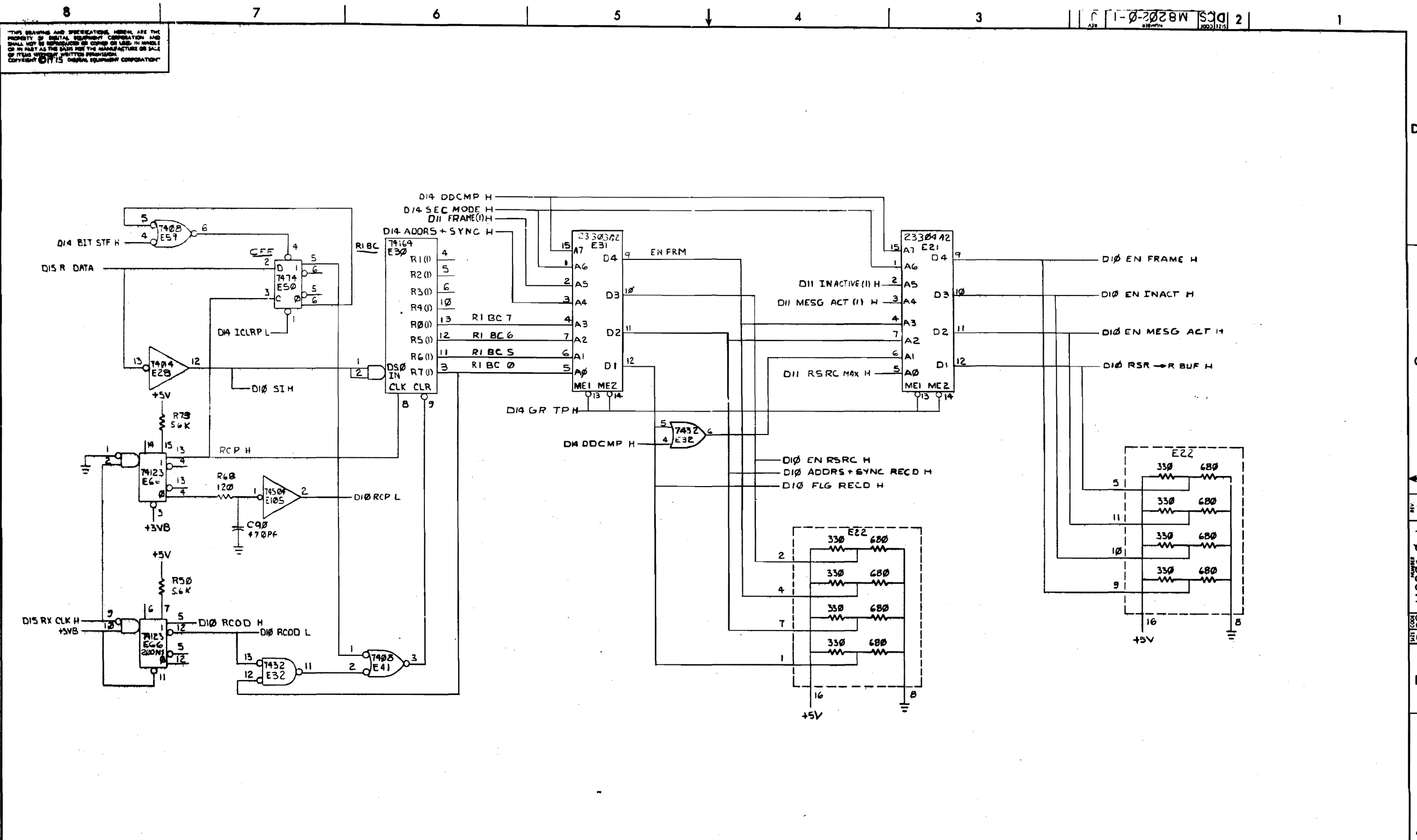
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REVISIONS		
CHK	CHANGE NO.	REV

(TX BCC CONTROL)		TITLE	SIZE CODE	NUMBER	REV.
IPL SLU HI		(09)	DCS	M8202-0-1	J
SCALE	SHEET	OF	TOTAL	DATE	
	2	16			

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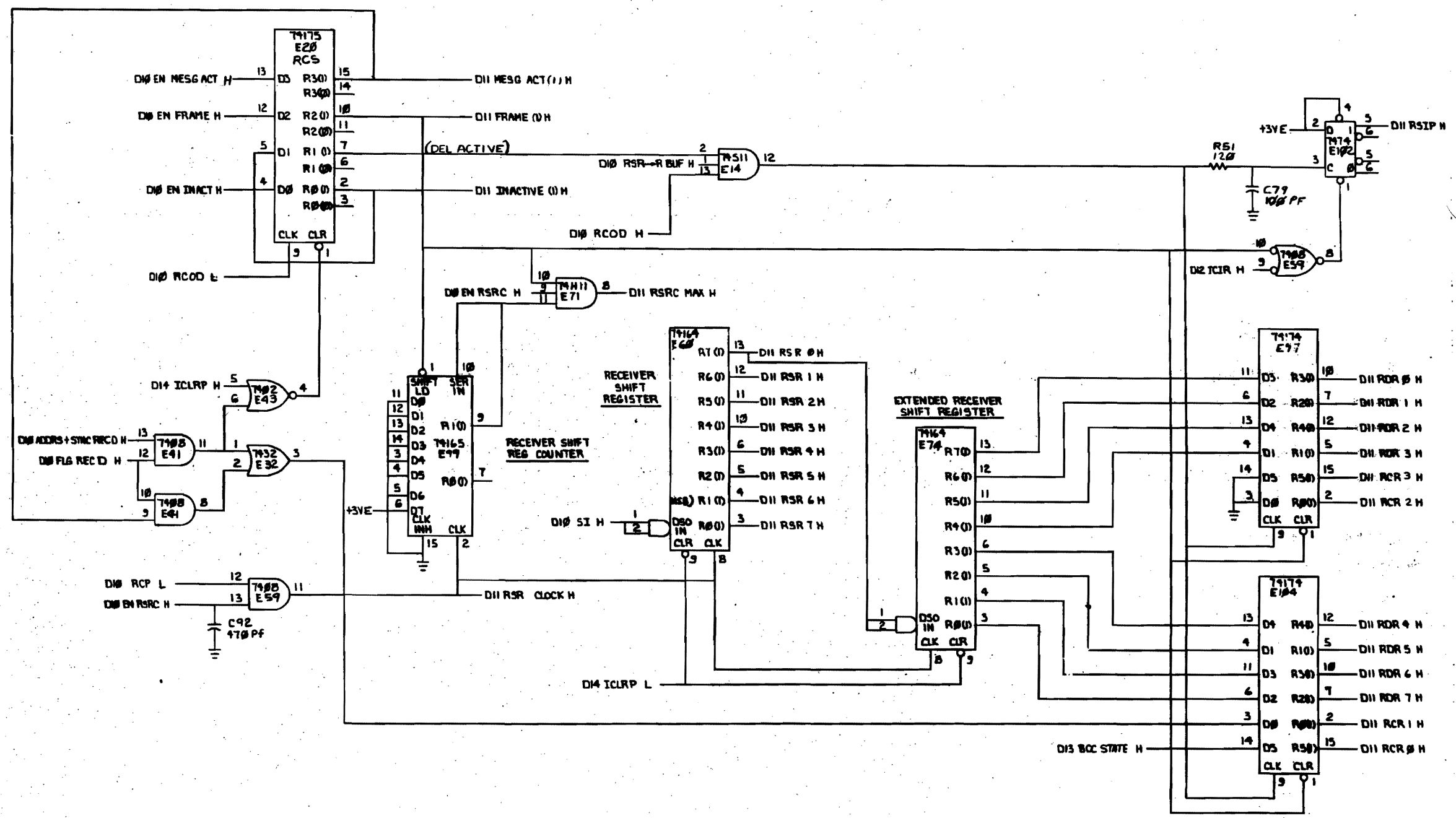
REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 100 100

(RX CONTROL 1)		TITLE	SIZE/	NUMBER	REV.
IPL SLU HI		(010)	DCS	M8202-0-1	J
SCALE	SHEET 10	OF 16	DIST.		

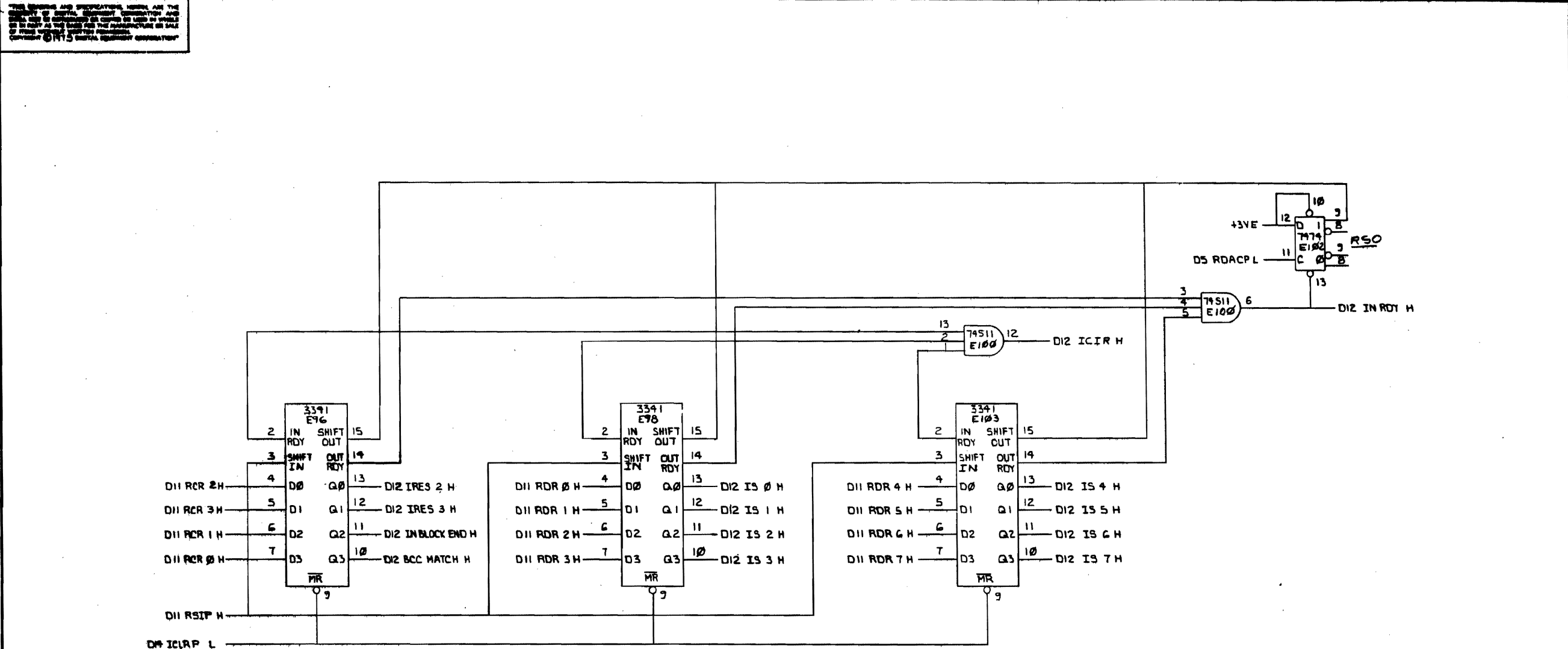
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REVISIONS		
CHK	CHANGE NO.	REV.

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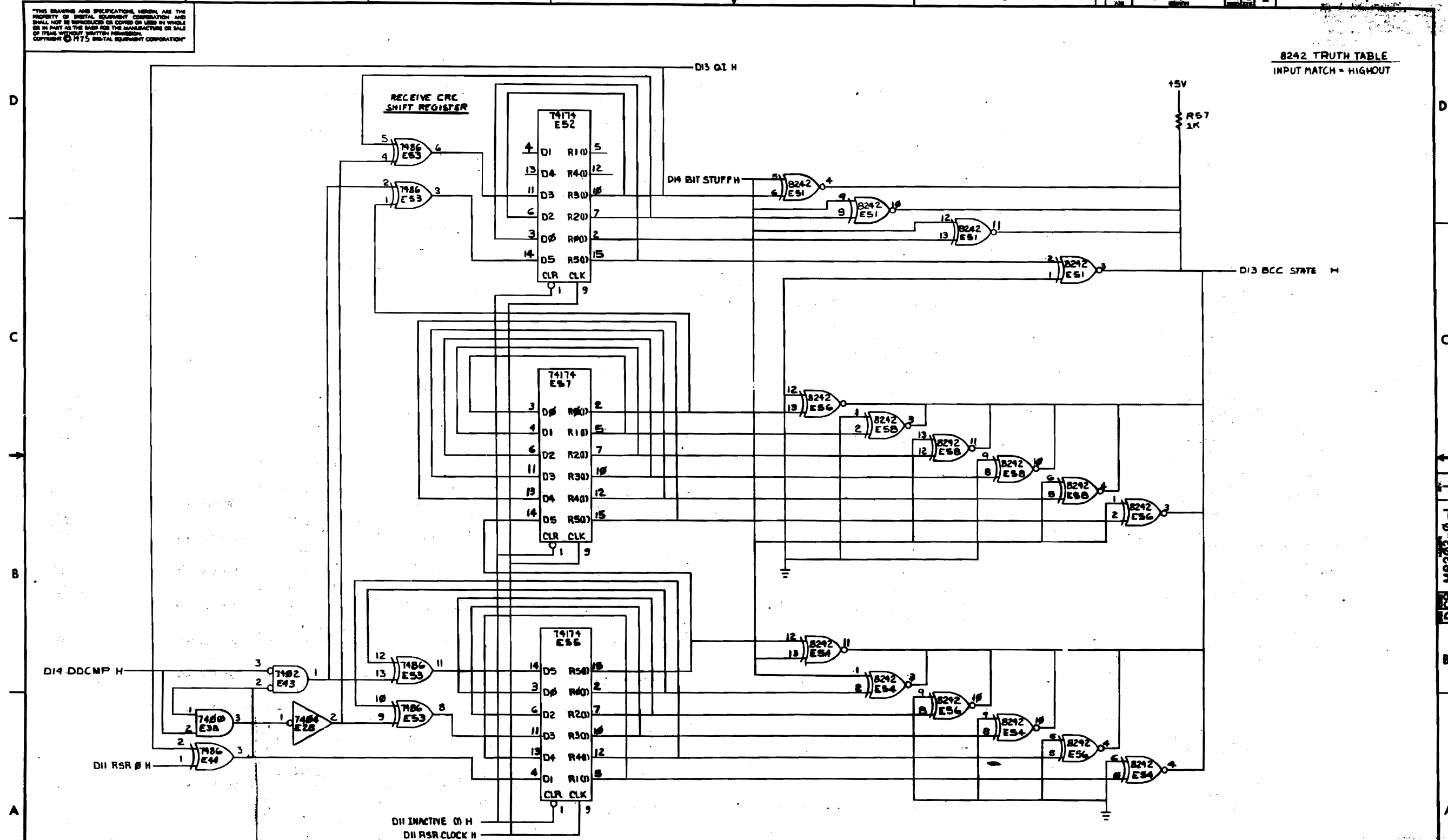


REVISIONS		
CHK	CHANGE NO.	REV.

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DCS M8202-0-1 J

8242 TRUTH TABLE
INPUT MATCH = HIGHOUT



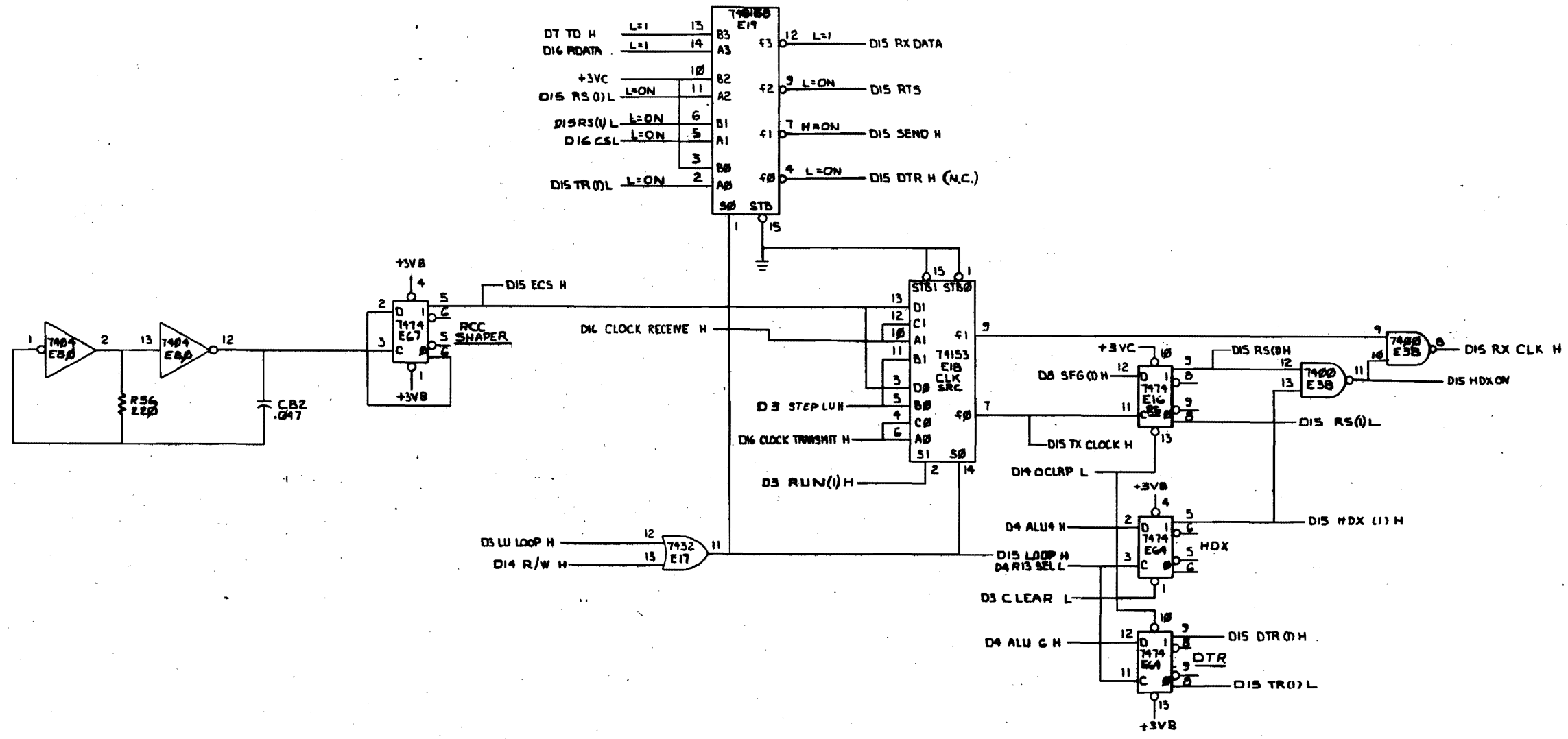
(RX BCC CONTROL)

CHK	CHANGE NO.	REV.

TITLE	IPL SLU HI	SIZECODE	(013)	DCS	NUMBER	M8202-0-1	REV.	J
SCALE	1:1	SHEET	13	OF	16	DATE		

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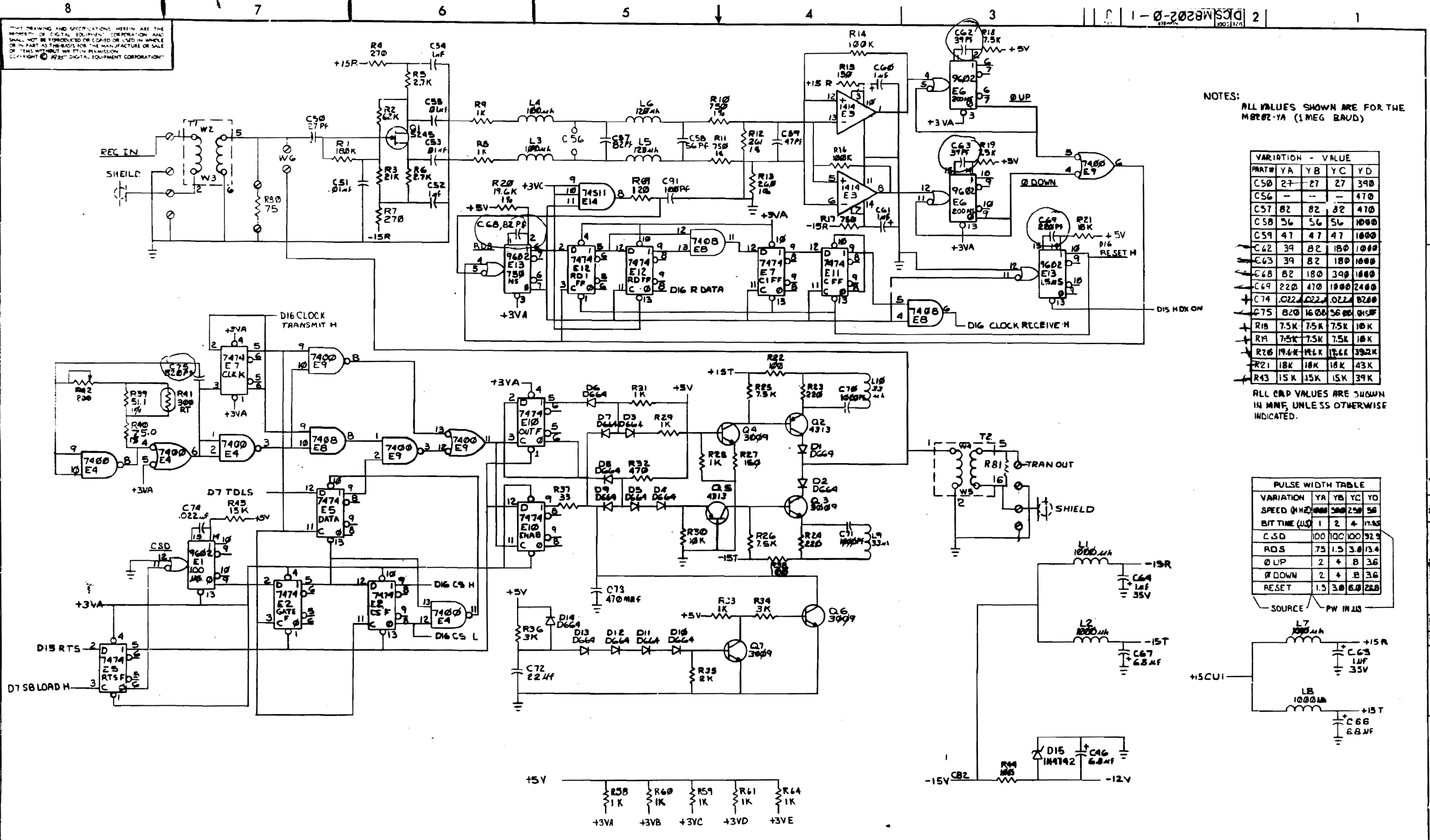
1-0-2020W S10 2



REVISIONS		
CHK	CHANGE NO.	REV.

(100-70)
8007-1A

10044-00

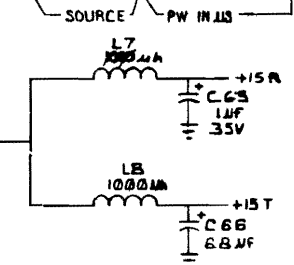


NOTES:
ALL VALUES SHOWN ARE FOR THE
M802-1A (1MEG BAUD)

VARIATION - VALUE				
PART#	YA	YB	YC	YD
C50	27	27	27	390
C56	-	-	-	470
C57	82	82	82	470
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	8200
C75	820	1600	3600	8150
R18	7.5K	7.5K	7.5K	10K
R19	7.5K	7.5K	7.5K	10K
R26	19.6K	19.6K	19.6K	39.2K
R21	18K	18K	18K	43K
R43	15K	15K	15K	39K

ALL CAP VALUES ARE SHOWN
IN MUF UNLESS OTHERWISE
INDICATED.

PULSE WIDTH TABLE				
VARIATION	YA	YB	YC	YD
SPEED (KHZ)	100	250	500	500
BIT TIME (US)	1	2	4	17.45
C.S.D	100	100	100	32.9
R.D.S	7.5	1.5	3.0	13.4
Ø LUP	2	4	8	3.6
Ø DOWN	2	4	8	3.6
RESET	1.5	3.0	6.0	24.8



REVISIONS		
CHK	CHANGE NO	REV

TITLE IPL SLU HI		SIZE CODE D16	NUMBER DCS M8202-0-1	REV. J
SCALE 1/1	SHEET 16	OF 16	DIST.	

1 MK

DIGITAL EQUIPMENT CORPORATION PARTS LIST

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

QUANTITY / VARIATION

M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0																
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NOTES:

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 74154	4	4	4	4															E25, E30, E60, E74
27		1910155	IC DEC 7408	6	6	6	6															E8, E36, E41, E45, E59, E69

ECO. NO.
 0002
 0003
 0004
 0005
 MK006

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		SHEET 1 OF 5	INSERTION PARTS LIST DATA BASE REV D			

M/K

DIGITAL EQUIPMENT CORPORATION PARTS LIST

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

QUANTITY / VARIATION

NOTES:

** DEC 1A-12783 IS AN ACCEPTABLE VARIATION FOR THE YA, YB VARIATION ONLY.

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION				REF DESIGNATION
				M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0	
54		1000012	CAP 56 Mmf	1	1	1	-	C58
55		1000016	CAP 100 Mmf	5	5	5	5	C78, C79, C80, C81, C91
56		1000021	CAP 220 Mmf	1	-	-	-	C69
57		1000061	CAP .0082 Mf	-	-	-	1	C74
58		1002630	CAP .015 Mf	-	-	-	1	C75
59		10011683 **	CAP .022 Mf	1	1	1	-	C74
		10011683 **	CAP .022 Mf	-	-	-	2	C70, C71
60		1010274	CAP .22 Mf	-	-	-	2	C53, C55
61		1001306	CAP 6.8 Mf	6	6	6	6	C46, C47, C48, C49, C66, C67
62		1002504	CAP 3600 Mmf	-	-	1	-	C75
63		1001636	CAP 2400 Mmf	-	-	-	1	C69
64		1000027	CAP 820 Mmf	1	-	-	-	C75
65		1000026	CAP 680 Mmf	2	-	-	-	C89, C94
		1000026	CAP 680 Mmf	-	2	2	2	C89, C94
66		1000042	CAP 1000 Mmf	-	-	1	-	C69
		1000042	CAP 1000 Mmf	-	-	-	5	C58, C59, C62, C63, C68
67		1002424	CAP 1200 Mmf	1	-	-	1	C83
		1002424	CAP 1200 Mmf	-	1	-	-	C83
		1002424	CAP 1200 Mmf	-	-	1	-	C83
68	1300317	RES 10 1/4W 5% CC	2	2	2	2	R22, R38	
69		1300229	RES 100 1/4W 5% CC	3	3	3	3	R44, R22, R38
70		1300250	RES 150 1/4W 5% CC	2	2	2	2	R15, R27
71		1302379	RES 75 1/4W 5% CC	1	1	1	1	R80
72		1300271	RES 220 1/4W 5% CC	7	7	7	7	R23, R24, R48, R56, R62, R72, R79
73		1302397	RES 180K 1/4W 5% CC	1	1	1	1	R1
74		1300426	RES 2.7K 1/4W 5% CC	2	2	2	2	R5, R6
75		1304840	RES 62K 1/4W 5% CC	1	1	1	1	R2
76		1309785	RES 300 (THERMISTOR)	1	1	1	1	R41

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MK

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
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	
E.C.O. NO.				TITLE IPL SLU HI				ASSY NO. D-UA-M8202-0-0		SIZE B	CODE PL	NUMBER M8202-0-0	REV. J
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DIGITAL EQUIPMENT CORPORATION PARTS LIST

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

QUANTITY / VARIATION

NOTES:

906430-06 AND 9007883 MAY BE USED AT THE DISCRETION OF MANUFACTURING AND/OR FIELD SERVICE.

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION				REF DESIGNATION
				M8202-YA-0	M8202-YB-0	M8202-YC-0	M8202-YD-0	
98		1300479	RES 10K 1/4W 5%	3	3	3	-	R30, R54, R55
		1300479	RES 10K 1/4W 5%	-	-	-	5	R18, R19, R30, R54, R55
99		1309419	RES 19.6K 1/8W 1%	1	1	1	-	R20
100		1304838	RES 43K 1/4W 5%	-	-	-	1	R21
101		1302395	RES 56K 1/4W 5%	1	1	-	1	R78
		1302395	RES 56K 1/4W 5%	-	-	1	-	R78
102		1302465	RES 18K 1/4W 5%	1	1	1	-	R21
103		1000020	CAP 180 Mmf	-	1	-	-	C68
		1000020	CAP 180 Mmf	-	-	2	-	C62, C63
104		1001631	CAP 390 Mmf	-	-	1	-	C68
105		7011454-01	CABLE, MODULE	2	2	2	2	
106		9006735	SPLIT LUGS	8	8	8	8	
107		9006732	EYELETS	10	10	10	10	
108		9007081	CLAMP, CABLE 1/4"	2	2	2	2	
109		9009185	INSULATED JUMPER	1	1	1	1	W1
110		9006401-04	SCREW, NYLON 4/40 X .375	2	2	2	2	SEE NOTE 1.
111		9007992	NUT, HEX, NYLON 4/40 *	2	2	2	2	SEE NOTE 1.
112		9105740-55	30 AWG WIRE, GREEN	A/R	A/R	A/R	A/R	APPROX. 2 FT
113		1000010	CAP 39 Mmf	1	1	1	1	C93
114		1300496	RES 15K 1/4W 5% CC	1	1	1	-	R43
115		1001634	CAP 1600 Mmf	-	1	-	-	C75
116		1300247	RES 120 1/4W 5% CC	3	3	3	3	R51, R68, R69
117		1305265	RES 39.2K 1/4W 1%	-	-	-	1	R20
118		9008356		A/R	A/R	A/R	A/R	R TO CABLE ATTACHED TO T1 AT CONN END T TO CABLE ATTACHED TO T2 AT CONN END
119		9107278-11	TUBING	A/R	A/R	A/R	A/R	

E.C.O. NO.

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TITLE

IPL SLU HI

ASSY NO.

D-UA-M8202-0-0

SIZE

B

CODE

PL

NUMBER

M8202-0-0

REV.

J

SHEET 5 OF 5

INSERTION PARTS LIST DATA BASE REV D

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H 0-0-0008 2

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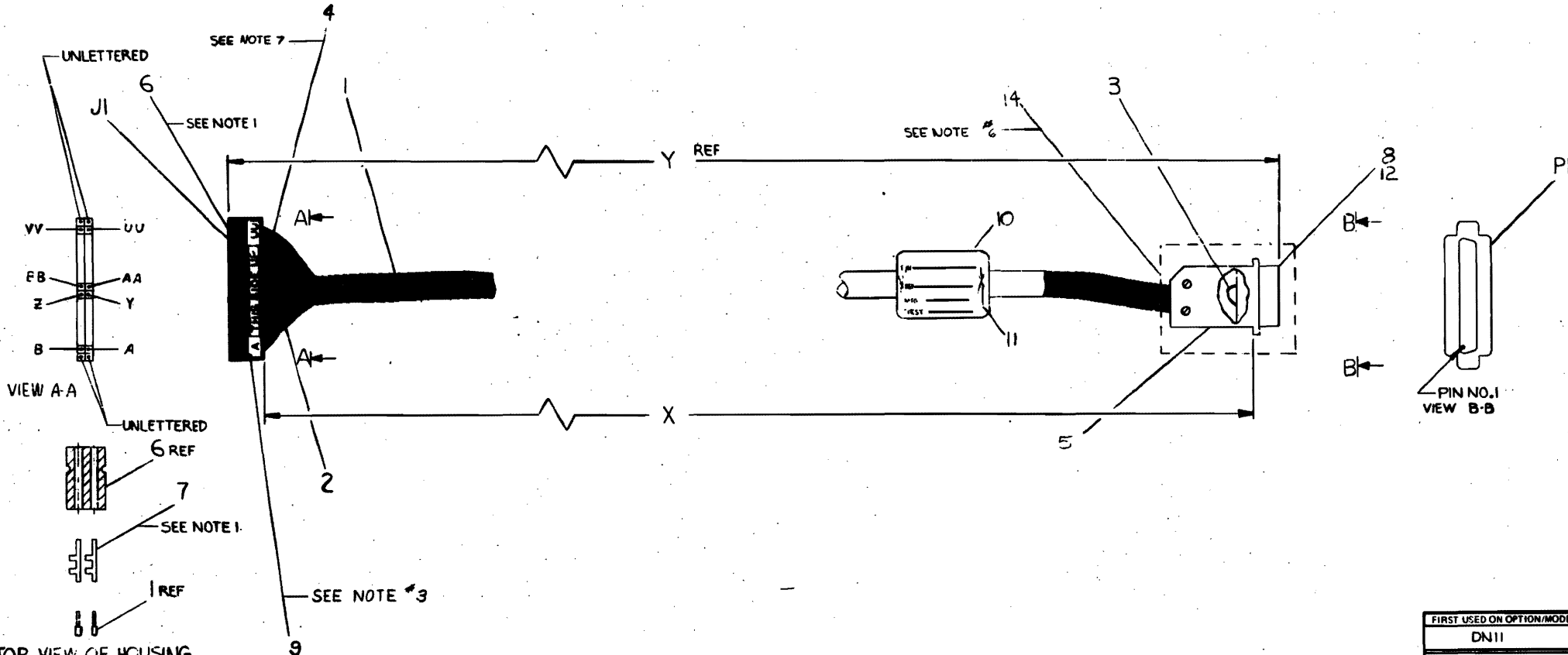
WIRE TABLE							WIRE TABLE							
ITEM NO.	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	ITEM NO.	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
1	26	BLU/WHT	PI-1	*	J1-VV	7	1	26	RED/BRN	PI-16	8	J1-NN	7	
		WHT/BLU	PI-2	S	J1-F				SLA	PI-17		J1-R		
		ORN/WHT	PI-3		J1-J				RED/SLA	PI-18		J1-U		
		WHT/ORN	PI-4	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

NUMBER	VARIATION	
	DIM X	DIM Y (PRE-CUT)
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'±1.8"

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 #10 (NOTE TO HOUSING) TO PREVENT SHORTING
- USE ITEM #12 (NOTE TO HOUSING) 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 JUCTION OF CABLE AND HOUSING.
- PLACE ITEM #4 (9107256) OVER SHIELD WIRE J1-A, J1-B, PI-1, PI-7.

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



QTY.	DESCRIPTION	PART NO.	REV.
1	HOOD	1210493-30	15
A/H	TAPE, DOUBLE SIDED	9007834	14
1	MALE S-REW	1210493-51	13
2	PIN CONTACT	1215241	12
2	TIE WRAPS	9007031	11
1	CABLE LABEL	9009532	10
1	LABEL, THIS SIDE UP	3611567	9
25	PH 24-28 AWG	1210493-43	8
29	SOCKET, *HT-68	1210889-5	7
1	HOUSING, *20383 BERG	1210918-15	6
1	SHELL AND INSECT MALE	1210493-31	5
A/R	TUBING, *22 AWG TEF BLK	9107256-00	4
A/R	WIRE, *26 AWG STRD TEF BLK	9107636-00	3
A/R	WIRE, *26 AWG STRD TEF RED	9107636-22	2
A/R	CABLE, 25 CONDUCTOR *26 AWG	9107736	1

REV.	DATE	BY	CHKD.	DESCRIPTION
1	7-19-78	SMITH		REVISED TO 10-28-78
2	10-28-78	BEGAN		REVISED TO 10-28-78
3	11-13-78	V. HARRINGTON		REVISED TO 11-13-78
4	11-13-78	R. SMITH		REVISED TO 11-13-78
5	11-13-78	R. SMITH		REVISED TO 11-13-78
6	11-13-78	R. SMITH		REVISED TO 11-13-78
7	11-13-78	R. HARRINGTON		REVISED TO 11-13-78
8	11-13-78	R. HARRINGTON		REVISED TO 11-13-78
9	11-13-78	R. HARRINGTON		REVISED TO 11-13-78
10	11-13-78	R. HARRINGTON		REVISED TO 11-13-78

FIRST USED ON OPTION/MODEL	DN11	DATE	11/21/78
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DECIMALS	ANGLES	10° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	MATERIAL	FINISH	++
PARTS LIST	EQUIPMENT CORPORATION CABLE, MODEM BC05C		
SCALE	NONE	SHEET	1 OF 1
SIZE CODE	DUA	NUMBER	BC05C-0-0
DIST.		REV.	H

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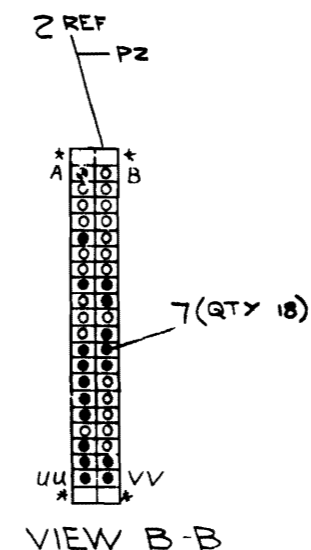
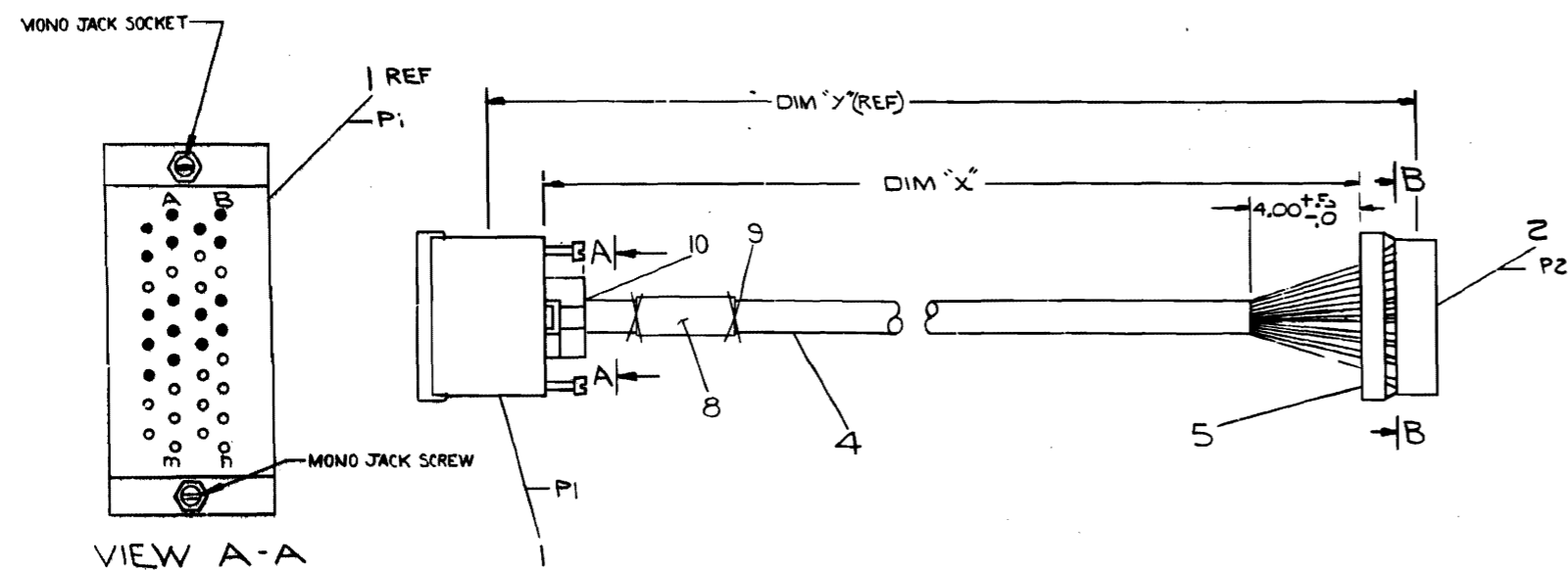
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ITEM NO	DESCRIPTION	FROM		TO		REMARKS (SIGNAL NAME)	SHIELD COLOR	
		AWG	COLOR	CONN	WITH			CONN
4	#22 TWP	RED	PI-P	1 #3	P2-AA	2 #7	TX DATA DIFF +	RED
		BLK	PI-S		P2-KK		TX DATA DIFF -	
		WHT	PI-R		P2-S		RX DATA DIFF +	RED
		BLK	PI-T		P2-K		RX DATA DIFF -	
		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 P1 OR P2) TO BE CUT FLUSH WITH OUTER INSULATION OF CABLE.



REV.	DESCRIPTION	DATE	BY	CHK'D
1	BC05Z-00001	26 May 77	B SMITH	
2	BC05Z-00002	15 June 77	P ALOISI	
3	BC05Z-00003	19 Feb 78	R HARRINGTON	
4	BC05Z-00004	15 Feb 78		

DESCRIPTION	QTY	PART NO.	ITEM NO.
TAPE, DOUBLE SIDED		3007934	10
WRAP, TIE		9107031	9
LABEL, CABLE		9009532	8
SOCKET, CRIMP		1210089-07	7
TUBING, SHRINK		912255-00	6
RELIEF STRAIN		1211166-00	5
CABLE, #22 AWG (9 TWP)		9107687-00	4
CONN, PIN #22-#26 AWG		1209629-00	3
CONN, 44 POS MSG		1210918-15	2
CONN ASSY (34 POS)		1212109-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	SURFACE QUALITY	FINISH	PREPARED	1:512	1:016	1:025	1:004	1:003	1:001
45° 30'	1	1	1	1	1	1	1	1	1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PART 1:151

FINISH

QUANTITY & VARIATION

FIRST USED ON DMCI1-FA

TITLE: CABLE, V35/DDS DSU

SCALE: D

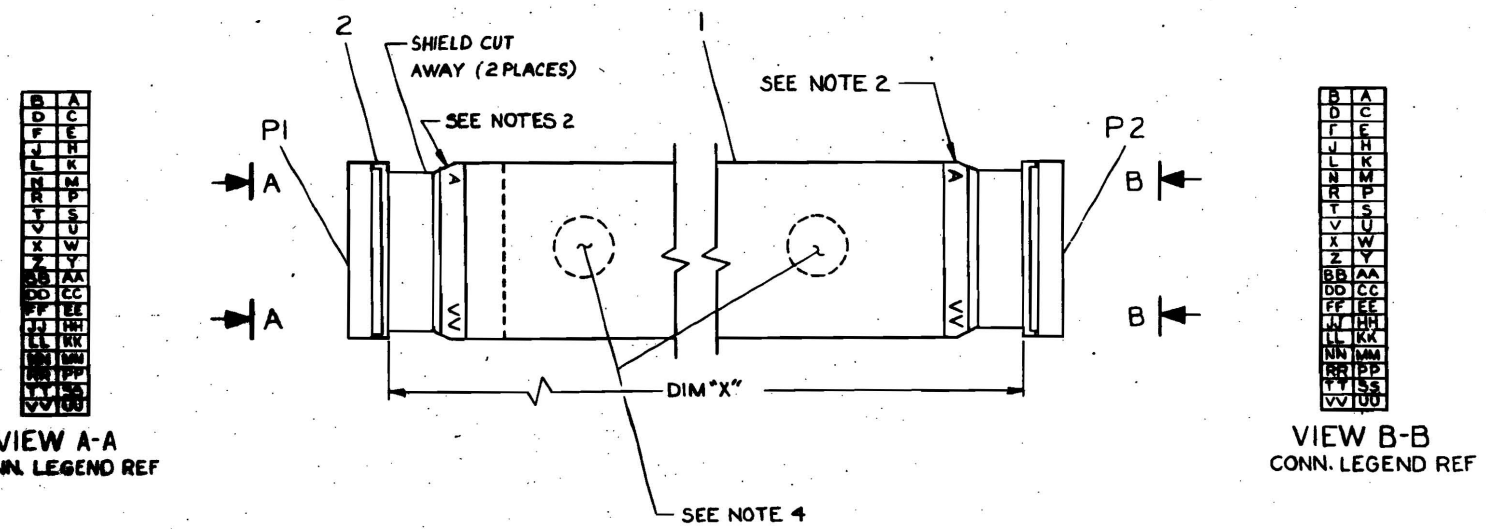
SHEET OF DIST.

MARK

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

- 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.~~



REV.	DATE	BY	CHKD.	DESCRIPTION
1	14 JUN 76	W. FISHER		REVISED AND REDRAWN
2	23 JUN 76	S. HOLMES		REVISED AND REDRAWN
3	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
4	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
5	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
6	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
7	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
8	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
9	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
10	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
11	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
12	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
13	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
14	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
15	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
16	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
17	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
18	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
19	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
20	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
21	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
22	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
23	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
24	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
25	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
26	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
27	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
28	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
29	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
30	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
31	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
32	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
33	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
34	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
35	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
36	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
37	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
38	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
39	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
40	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
41	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
42	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
43	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
44	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
45	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
46	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
47	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
48	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
49	14 JUN 76	S. HOLMES		REVISED AND REDRAWN
50	14 JUN 76	S. HOLMES		REVISED AND REDRAWN

1	LABEL, PRODUCT ID	9009235	3
2	CONNECTOR, 40 SOCKET	1211206-00	2
AVR	CABLE, FLAT 40 COND	1700004-00	1

DESCRIPTION	SHIELD PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES	CLASS OF ACCURACY	FINISH
30° 20'	CHECK ONE	AS BUILT
SURFACE QUALITY	MEDIUM	AS BUILT
IN	PREFERRED	AS BUILT
MICROINCHES	AS BUILT	AS BUILT

THIRD ANGLE PROJECTION	DRN. J. FERGUSON 5-12-71	FIRST USED ON	LABS-E
REMOVE BURRS AND BREAK SHARP CORNERS	ENG. D. K. CRABBE 5-13-71	TITLE	I/O CABLE ASS'Y (DIAG. JUMPER)
DO NOT SCALE DWG	PROL. ENGR. R. J. DANNON 5-21-71	PROD. P. FAZIO 5-21-71	
MATERIAL	A-PI-DR8-EA-Ø	SIZE	ØØØØ
SCALE	NONE	DR.	Ø TA BCØBS-Ø-Ø
FINISH	ØØØØ	ØØØØ	ØØØØ

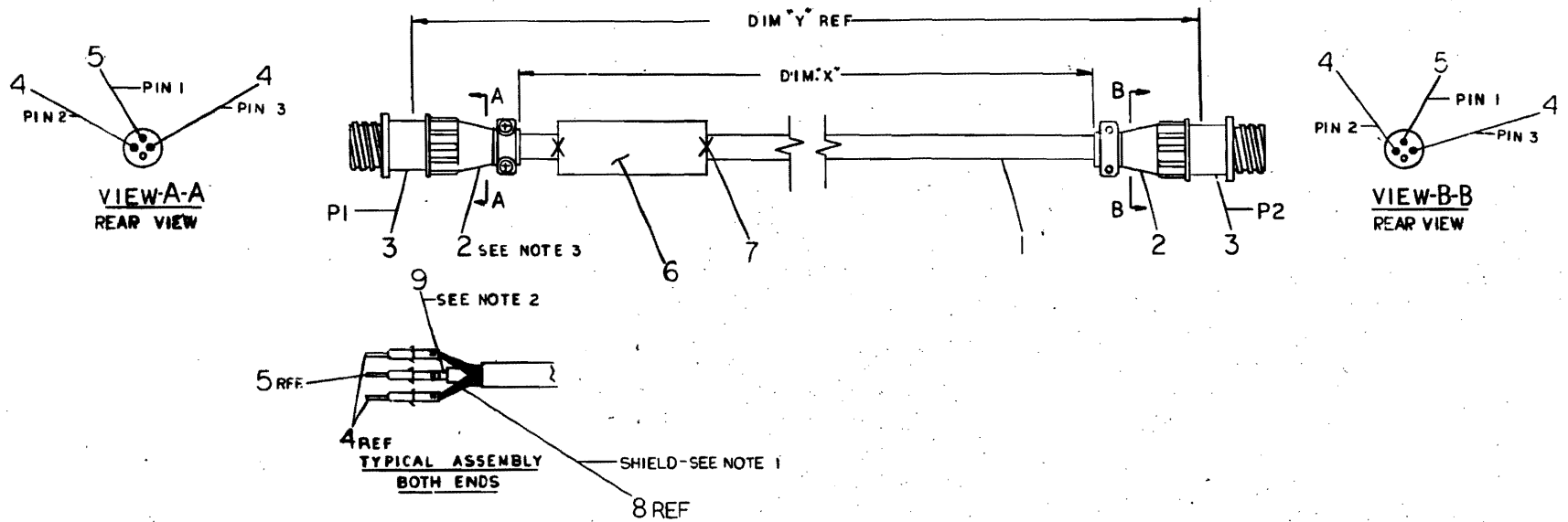
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LEGEND		
NUMBER	DIM.'X' VARIATION	DIM.'Y' (PRE-CUT) REF
BC03N-A0	99 FT ± 2 FT.	100 FT

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

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 # 30383
 3. INSERTION TOOL # 91002-1 (FOR .070 INS DIA OR LESS)
 5. STRIP JACKET 3/4 INCH BOTH ENDS.



DESCRIPTION	QTY/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 XI	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

REV.	DESCRIPTION	DATE
1	BC03N-00001 A	11/17/77
2	BC03N-00002 B	11/17/77
3	BC03N-00003 C	11/17/77
4	BC03N-00004 D	11/17/77

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FINISH	AS-BUILT	PREPARED	AS-BUILT	PREPARED	AS-BUILT	PREPARED
0.005	0.005	0.005	0.005	0.005	0.005	0.005

QUANTITY & VARIATION

DATE: 11/17/77

PROJ. ENG. [Signature]

PROC. [Signature]

REV. D

SCALE: 1/1

SHEET 1 OF 1

SIZE: D

NUMBER: BC03N-0-0-1

REV. D

TITLE: CABLE, MODEM

MARK

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS																
				A	B	C	D	E	F	G	H	I	J							
B-MH-M8201-0-6	1		IPL SLU LOW	-	A	B	C	D												
D-UA-M8201-0-0	8		IPL SLU LOW	B	B	C	D	E												
K-PL-M8201-0-DBP	2		IPL SLU LOW	-	B	C	D	E												
D-CS-M8201-0-1	16		IPL SLU LOW	B	B	C	D	E												
D-MD-5011711-0-0	3		DRILL & ETCH DRAWING	-	-	-	-	*												
		5011711	ETCHED BOARD	C	C	C	C	C												
M8201-0-L			P.C. DESIGN DATA BASE	REF	-	-	-	-												
M8201-0-PL			INSERTION P/L DATA BASE	REF	-	-	-	-												
D- IA -5011711-1-0	3		WIRE INK ARTWORK					*												

NOTES:

REVISIONS		ORIGINATED	DATE	CHG NO.	REV.
		M8201-00001			
		M8201-2	8-76	A	
		M8201-3	9-77	B	
		M8201-4	3-78	C	

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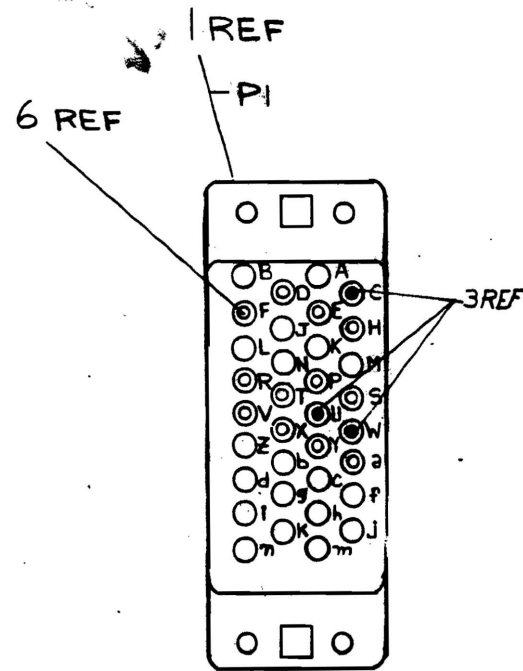


USED ON OPTION/MODEL	DRM	5-12-76	TITLE	IPL SLU LOW
DMC11	CHK	5-12-76	SIZE CODE	BDD
	ENG	5-12-76	NUMBER	M8201-0
	PROD	5-12-76	REV.	C
			SHEET	1 OF 1

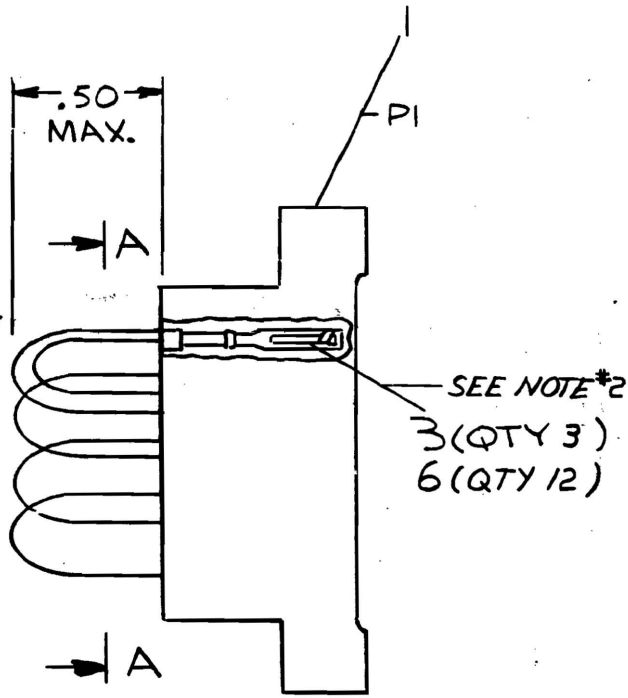
ITEM NO	DESCRIPTION		FROM			TO			
	AWG	COLOR	POINT	DESCRIPTION	WITH	POINT	DESCRIPTION	WITH	
2	20	BLK	PI-U	AUX CLK +	3	PI-Y	TX CLK DIFF +	6	
			PI-U			PI-V	RX CLK DIFF +	6	
			PI-W			PI-2	TX CLK DIFF -	6	
			PI-W	AUX CLK -	3	PI-X	RX CLK DIFF -	6	
			PI-P	TX DATA DIFF +	6	PI-R	RX DATA DIFF +	6	
			PI-S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

NOTES:

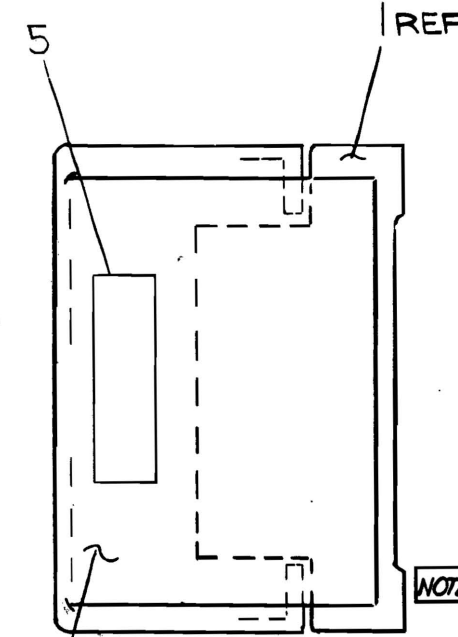
- EACH PLANT MAY USE THE VARIATION OF (ITEM # 2) THAT IS OF HIGHEST AVAILABILITY. (I.E. USE THE COLOR YOU HAVE THE MOST OF - AWG IS IMPORTANT, NOT COLOR).
- CONTACT P.N. 1210290-01 IS TO BE USED WHERE ONLY ONE WIRE IS INSERTED IN THE CONNECTOR. CONTACT P.N. 1210290-00 IS TO BE USED WHERE TWO WIRES ARE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



SEE NOTE #2
3 (QTY 3)
6 (QTY 12)

NOTE #	QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
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	AW	WIRE #20 AWG, BLK	9107460-00	2
	1	CONNECTOR BODY 34 PIN	1213033-0-0	

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 MICRONS	MEDIUM <input type="checkbox"/> PREFERRED <input checked="" type="checkbox"/>	OVER 0 TO 0.2
		OVER 0.2 TO 1.2
		OVER 1.2 TO 4.0
		OVER 4.0 TO 12.0
		OVER 12.0 TO 40.0
		OVER 40.0 TO 80.0
		OVER 80.0 TO 100.0

REV.	CHANGE NO.	DATE	BY	CHK'D
A	00001	15 July 77	P. ALOISI	
B	00002	15 July 77	P. ALOISI	
C	00003	15 July 77	P. ALOISI	

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]

FIRST USED ON: EM011-FA

TITLE: CONNECTOR, TEST V.35/DUS

SIZE: C

CODE: IA

NUMBER: H3250-C-C

REV: B

SHEET 1 OF 1