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LEGEND	
PART NO.	VARIATION
UDA50-00	ADAPTER, UNIBUS DISK
UDA50-A	ADAPTER, UNIBUS DISK

NOTES:

- DO NOT ASSEMBLE ITEMS 6 THRU 12. THIS WILL BE FIELD INSTALLED IN AN EXISTING I/O BULKHEAD WITH AVAILABLE MASS BUS CUTOUT.
- PROPERLY BAG AND TAG ITEMS FOR SHIPMENT.
- FOR SPECIFICATIONS, INSTALLATION AND/OR PROCEDURE REFER TO THE UDA50 DISK CONTROLLER USERS GUIDE P/N. EK-UDA50-UG.
- ITEM 14 (BOOTSTRAP ROM) IS FOR USE IN M9312 MODULE WHEN APPLICABLE, IN PDP/11 CPU'S.
- ITEM 19 (BOOTSTRAP ROM) IS FOR USE IN CPU MEMORY CONTROLLER MODULE WHEN APPLICABLE IN THE 11/750 CPU'S.
- FOR ONE UDA50 ASSEMBLY USE "A" HOLES. WHEN TWO UDA50 ASSEMBLIES ARE INSTALLED, USE "A" HOLES ON LEFT BRACKET (PHANTOM VIEW DETAIL D) AND "B" HOLES ON RIGHT BRACKET.

DETAIL E SHIELDED CABINET MOUNTING PANEL

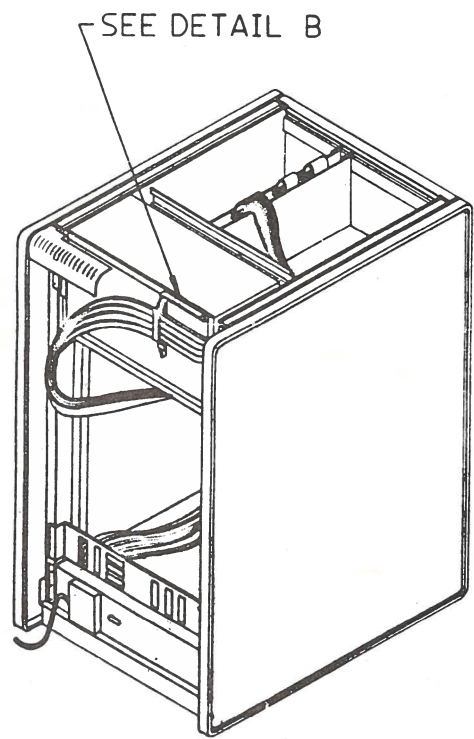
OPTIONAL MOUNTING DETAIL A FOR CABINET INSTALLATIONS WITHOUT EXISTING MASS BUS I/O PANEL CUTOUT

CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-UDA50-0-DBP (Z2142).

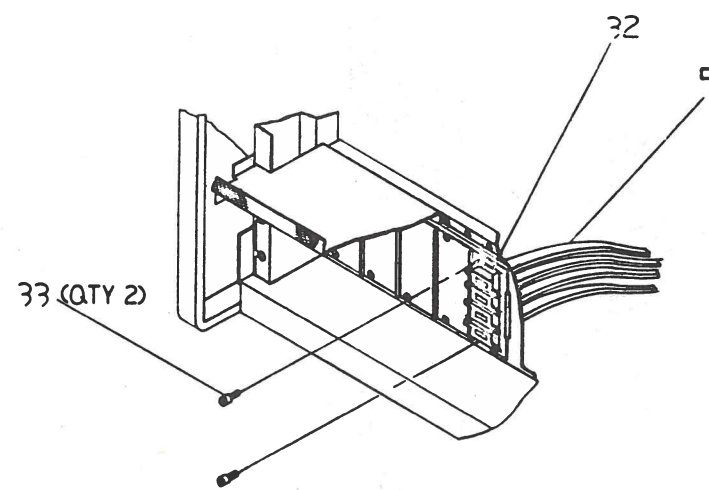
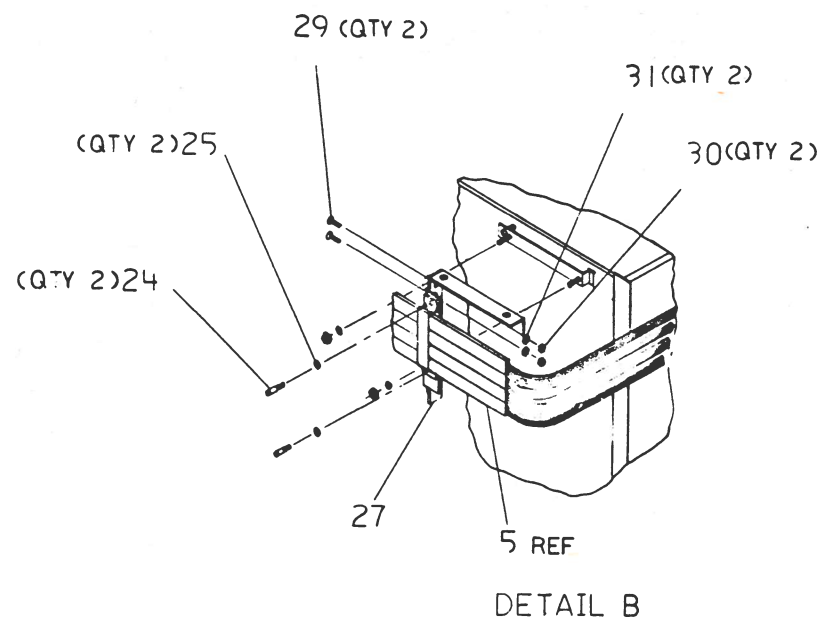
REV	ECO NUMBER	DATE	BY	CHKD	APP'D	DESCRIPTION
A	UDA50-CX014					
B	MBELL 26FEB82					
C	R. DUCHARME					
D	UDA50-CX002					
E	23OCT82					
	R. DUCHARME					
	UDA50-CX003					
	W.S. 10 NOV 82					
	J. WARDELL					
	UDA50-CX004					
	FLS MAY 83					
	A. CLARK					

DESCRIPTION		DRAWING NO.		PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
INCHES TOLERANCES		ANGLES ±0°30'		APPLICABLE DIMENSION RANGE		OVER 0 TO 0.2	
X ± .1		SURFACE QUALITY		CHECK ONE		OVER 0.2 TO 1.2	
XX ± .02		MICROINCHES		□		OVER 1.2 TO 4.0	
XXX ± .05		THIRD ANGLE PROJECTION		□		OVER 4.0 TO 12.0	
QUANTITY & VARIATION		DO NOT SCALE DRAWING		DATE 13 SEP 81		OVER 12.0 TO 48.0	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE 17 SEP 81		DATE 18 SEP 81		OVER 48.0 TO 80.0	
MATERIAL		DATE 18 SEP 81		DATE 18 SEP 81		OVER 80.0 TO 100.0	
SEE PARTS LIST		DATE 18 SEP 81		DATE 18 SEP 81		OVER 100.0 TO 160.0	
FINISH		DATE 18 SEP 81		DATE 18 SEP 81		OVER 160.0 TO 250.0	
NEXT HIGHER DOC		DATE 18 SEP 81		DATE 18 SEP 81		OVER 250.0 TO 400.0	
D-UA-RUA80-C-0		DATE 18 SEP 81		DATE 18 SEP 81		OVER 400.0 TO 650.0	
TITLE		DATE 18 SEP 81		DATE 18 SEP 81		OVER 650.0 TO 1000.0	
ADAPTER, UNIBUS DISK		DATE 18 SEP 81		DATE 18 SEP 81		OVER 1000.0 TO 1600.0	
DOCUMENT NUMBER		DATE 18 SEP 81		DATE 18 SEP 81		OVER 1600.0 TO 2500.0	
D UA UDA50-0-0		DATE 18 SEP 81		DATE 18 SEP 81		OVER 2500.0 TO 4000.0	
SCALE NONE		DATE 18 SEP 81		DATE 18 SEP 81		OVER 4000.0 TO 6500.0	
SHEET 1 OF 5		DATE 18 SEP 81		DATE 18 SEP 81		OVER 6500.0 TO 10000.0	

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UNSHIELDED CABINET



I/O PANEL, SHIELDED CABINET

UDA50 INSTALLATION INTO
 11/44 AND 11X44 SHIELDED
 AND UNSHIELDED CABINETS

REVISION HISTORY		
DATE	ECO NUMBER	REV

DRD 1000
 Control Data Corp. & Supply Co.

TITLE ADAPTER,
 UNIBUS DISK

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	UDA50-0-0	E
SCALE NONE		SHEET 2 OF 5	

ECO CODE
 DUA
 UDA50-0-0
 REV
 E

8

E DUA50-0-0

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4

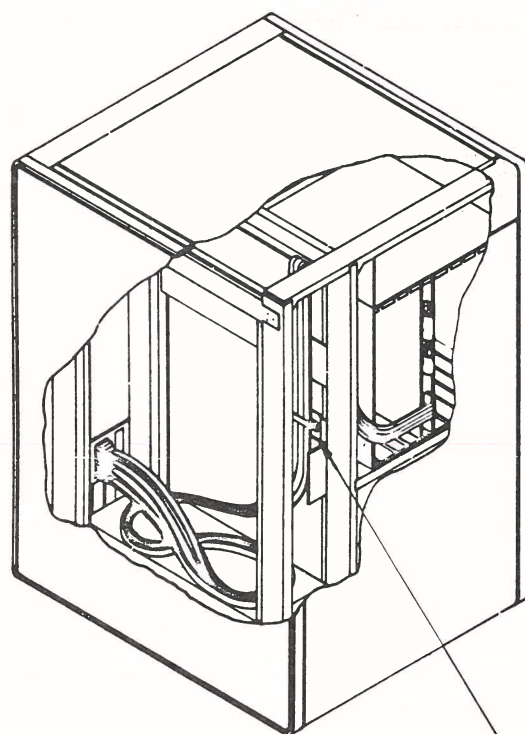
3

2

1

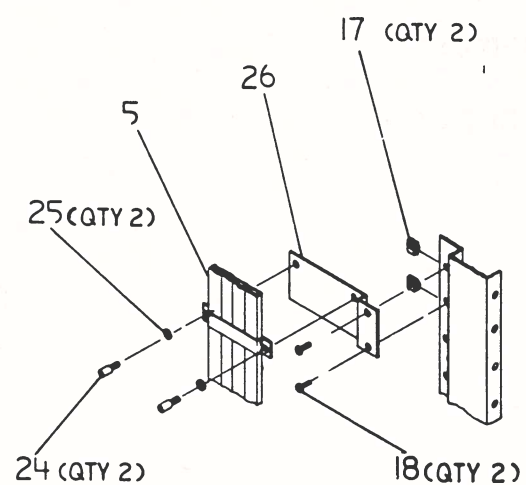
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1982

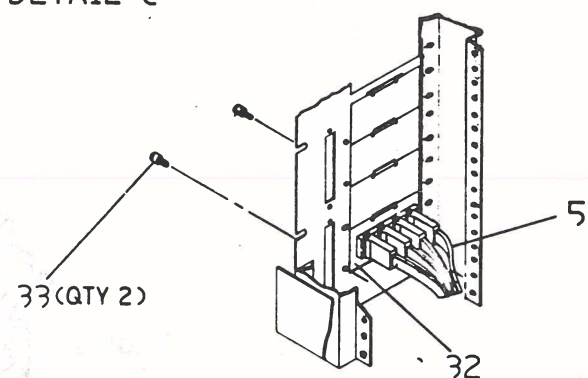


SEE DETAIL C

CABINET, UNSHIELDED



DETAIL C

I/O PANEL, SHIELDED
CABINETUDA50 INSTALLATION INTO
I/V750 CABINET, SHIELDED
AND UNSHIELDED

REVISION HISTORY		
DATE	REV NUMBER	REV

8

7

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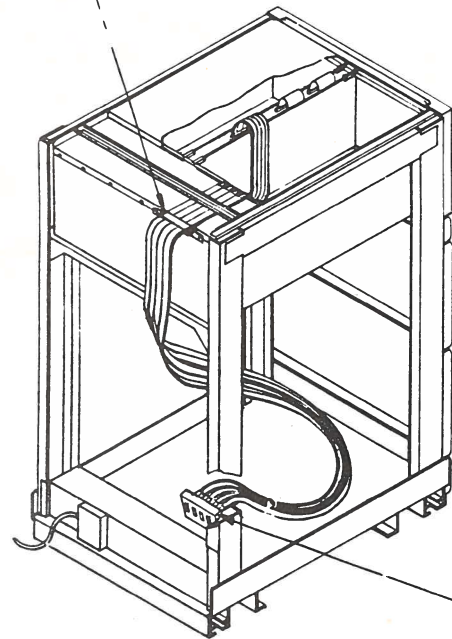
TITLE ADAPTER,
UNIBUS DISK

DOCUMENT NUMBER		
REV	REV NUMBER	REV
D	UA	UDA50-0-0
E	NONE	3 5

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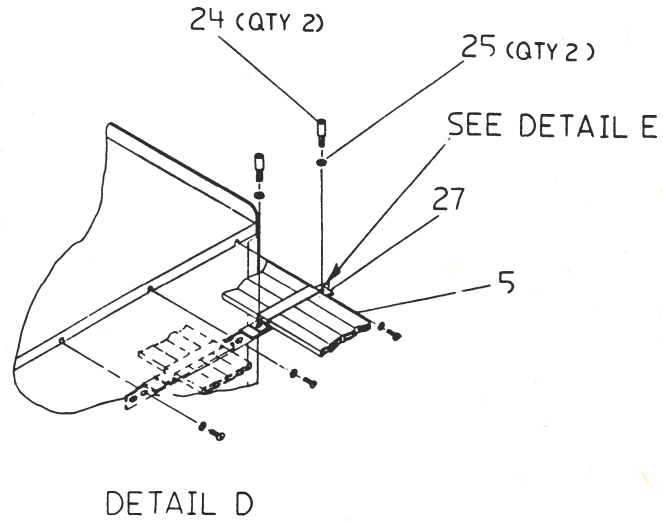
0-0-050AUA D

SEE DETAIL D



EXPANDER CABINET
UNSHIELDED

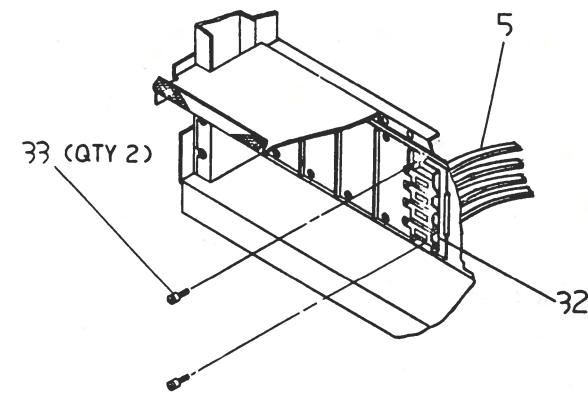
SEE DETAIL A
TO SHEET 1



DETAIL D



DETAIL E
SEE NOTE 6



MOUNTING PLATE, I/O PANEL OF
SHIELDED CABINET

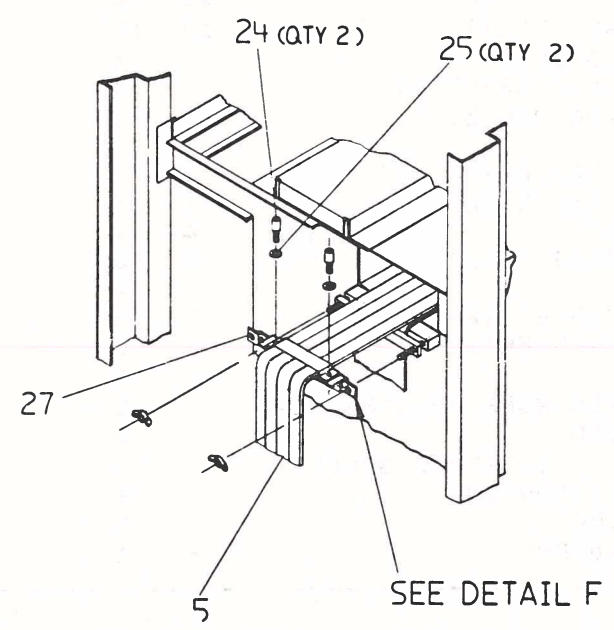
UDA50 INSTALLATION INTO
11/750 EXPANDER CABINET,
SHIELDED AND UNSHIELDED

REVISION HISTORY		
DATE	ECO NUMBER	REV

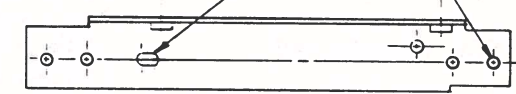
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	UDA50-0-0	E
SCALE NONE		SHEET 4	OF 5

TITLE ADAPTER,
UNIBUS DISK

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USE THESE HOLES TO MOUNT ON CABLE HARNESS STUDS.



DETAIL F

UDA 50 INSTALLATION INTO
11/40 AND 11/70 CABINET.
FOR BULKHEAD MOUNTING, SEE DETAIL A
SHEET 1

REVISION HISTORY		
DATE	ECO NUMBER	REV

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	UDA50-0-0	E
SCALE NONE		SHEET 5 OF 5

TITLE ADAPTER,
UNIBUS DISK

LINE ITEM TOP DOCUMENT PART NUMBER MIN REV DESCRIPTION QTY PER VARIATION
00 A

1	1	D-UA-M7162-0-0	M7162-00	UDA#2 (UNIBUS DISK ADAPTER BOARD	1	-
2	2	D-UA-M7161-0-0	M7161-YA	M7161 W BLASTED ROM'S,4-LAYER HE	1	-
3	3	C-TA-7018447-0-0	7018447-00	40 PIN FLAT CABLE ASSEMBLY	1	1
4	4	C-IA-7018448-0-0	7018448-00	50 PIN FLAT CABLE ASSEMBLY	1	1
5	5	D-AD-7020516-0-0	7020516-01	UDA CABLE AND GROUNDING ASSEMBLY	1	1
6	6		9007032-00	*** THIS ITEM IS NOT USED ***	-	-
7	7	C-MD-7426095-0-0	7426095-01	*** THIS ITEM IS NOT USED ***	-	-
8	8	C-MD-7426090-0-0	7426090-01	MOUNT,REAR CONN.	1	1
9	9		9006011-01	SCREW,MACH PAN PHIL 4-	12	12
10	10		9006688-00	WASHER,HELICAL SPLIT SST	12	12
11	11	D-IA-7426094-0-0	7426094-01	HOUSING,REAR SHIELD	1	1
12	12	C-AD-7018454-0-0	7018454-01	UDA BULKHEAD SUB-ASSEMBLY	1	1
13	13		3700652-01	PKG. KIT OPTION UDA 50	1	1
14	14	SEE NOTES 1&5	23767A9-00	A9-01	1	1
15	15	D-IA-7425425-0-0	7425425-01	BULKHEAD,I/O UDA,RETMA MNT	1	1
16	16	C-MD-7425426-0-0	7425426-01	BRACKET,VERTICAL RAIL	1	1
17	17		9007786-00	RETAINER,U-NUT 10-32X	4	4
18	18		9009700-00	SCREW,SEMS TRUSS PHIL 10-	6	6
19	19	SEE NOTES 2&5	23990A9-00	A9-01	1	1
20	20		9007867-00	MOUNT, PUSH,CABLE TIE	3	3
21	21	SEE NOTES 3&4		DISK CONTROLER USER'S GUIDE	1	1
22	22	D-UA-M7486-0-0	M7486-00	UDA SI	-	1
23	23	D-UA-M7485-0-0	M7485-YA	M7485 W/BLASTED ROMS,4-LAYER HEX	-	1
24	24		7427791-01	A MOUNT,GROUNDING	-	2
25	25		9006634-00	CR WASHER,LOCK INTERNAL STEEL	-	2
26	26		7427505-01	CR BRACKET,CABLE MOUNTING	-	1
27	27		7427503-01	CR ANGLE,GROUNDING	-	1
28	28		7427504-01	CR BRACKET,GROUNDING	-	1

REVISION HISTORY			BASIC PART NO: UDA50		DRN: R. DUCHARME		DATE: 02 FEB 81		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A									
RD	INITIAL	A	SECTION,VARIATION INDEX		CHK'D: W.C.M.		DATE: 15 SEP 81		TITLE PARTS LIST			
BD	UDA50-CX001	B	[A]00,A						ADAPTER, UNIBUS DISK			
RD	UDA50-CX002	C										
JW	UDA50-CX003	D	[B]		DES.ENG: R. DUCHARME		DATE: 15 SEP 81		DOCUMENT NUMBER			
TK	UDA50-CX004	E	[C]						SIZE CODE NUMBER REV			
			[D]		RESP.ENG.: W. MATHRANI		DATE: 15 SEP 81		K PL UDA50-0-DBP E			
			[E]		MFG.ENG.: K. SHAHEED		DATE: 15 SEP 81		RELEASE DATE:			
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					D-UA-UDA50-0-0		B-DD-UDA50-0-0		Z2142E.PLS		9	

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MIN QTY PER VARIATION
LINE ITEM TOP DOCUMENT PART NUMBER REV DESCRIPTION 00 A

29	29	9006024-01	CR SCREW,MACH PAN PHIL	6-	-	2
30	30	9006558-00	CR NUT,HEX 6-32X .307AF CS/C	-	-	2
31	31	9006633-00	CR WASHER,LOCK INTERNAL STEEL	-	-	2
32	32	7426407-05	CR PANEL,DOUBLE (MASS BUS)	-	-	1
33	33	1219534-01	SCREW, CAPTV SLOT	4-	-	2

- 34 NOTE: -1. SEE NOTE 4 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).
35 NOTE: -2. SEE NOTE 5 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).
36 NOTE: -3. SEE NOTE 3 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).
37 NOTE: -5. PROPER DESCRIPTION SHOULD BE 'BOOTSTRAP ROM'.
38 NOTE: -4. ITEM 21, P/N EK-UDA50-UG NOT IN MPF AT TIME OF RELEASE

D	I	G	I	T	A	L	TITLE	ADAPTER, UNIBUS DISK	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	UDA50-0-DBP	E

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																	
B-DD-M7161-0	1		UDA NO. 1 - NO ROMS	A																	
D-UA-M7161-0-0	2		UDA NO. 1 - NO ROMS	A																	
K-CS-M7161-0-UDA1	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA2	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA3	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA4	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA5	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA6	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA7	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA8	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDA9	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAA	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAB	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAC	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAD	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAE	1		UDA NO. 1 "	B																	
K-CS-M7161-0-UDAF	1		UDA NO. 1 - NO ROMS	B																	
K-CS-M7161-0-DBS	-		SUDS DATA BASE	B																	
K-PL-M7161-0-DBP	-		UDA NO. 1 - NO ROMS	A																	
K-PC-M7161-0-DBC	-		P.C. DESIGN DATA BASE	A																	
		5014040-00	ETCH BOARD	B																	
D-EC-5014040-0-0	2		ETCH CUT DRAWING	A																	
D-MD-5014040-0-0	5		DRILL AND ETCH DRAWING	A																	

NOTES:

1. M7161 consists of other variations (YA)
5014040 is the Etch Board for all variations.

REVISIONS

DATE

CHG NO.

REV.

INIT

A

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digital

USED ON OPTION/MODEL

RA80

DRN.

CHK'D

ENG.

PROD.

TITLE

UDA NO. 1 - No Roms

SIZE

CODE

NUMBER

REV.

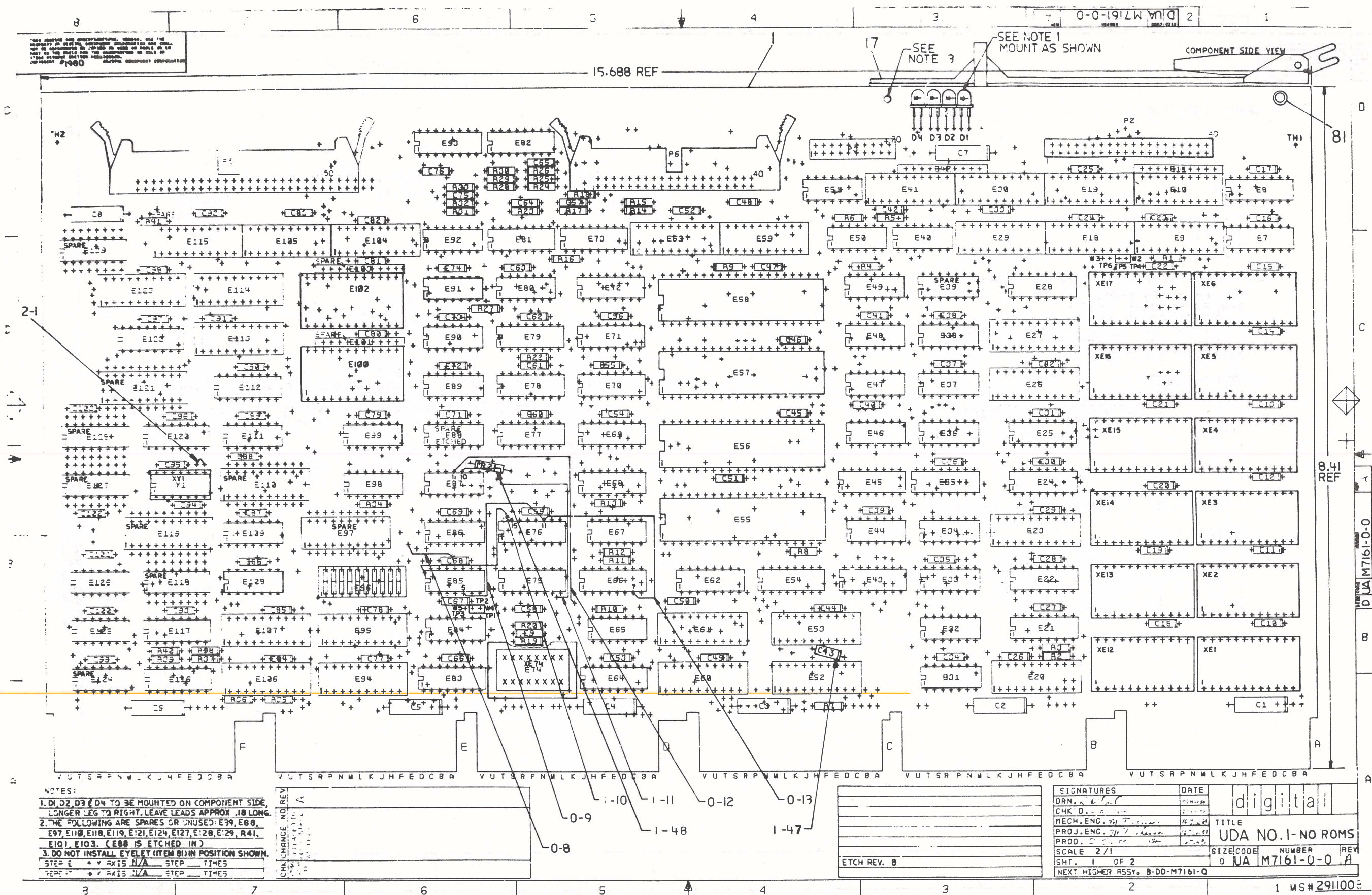
B

DD

M7161-0

A

SHEET 1 OF 1



8

D-0-1917W 700

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1

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REWORK INSTRUCTIONS-INITIAL RELEASE

0-1.
0-2.
0-3.
0-4. } SEE D-EC-5014040-0-0
0-5.
0-6.
0-7.

WIRE ADDS-COMPONENT SIDE AS SHOWN:

- 0-8. FROM PTH ABOVE C68 TO PTH TO LEFT OF E86-1.
- 0-9. FROM E85-5 TO E76-11.
- 1-10. FROM E76-15 TO PTH ON LEFT OF E85.
- 1-11. FROM PTH BELOW E75-7&8 TO E87-10.
- 0-12. FROM E87-11 TO PTH BELOW E66 & E75.
- 0-13. FROM E66-7 TO E76-11.

COMPONENT DELETES:

- 1-14. DELETE CAPACITOR C70 (1012784).
- 1-15. RESISTOR R42 (1300447).
- 1-16. I.C. SOCKET XE55 (1215006-08).
- 1-17. XE56
- 1-18. XE57
- 1-19. XE58 (-08).
- 1-20. XE91 (-01).
- 1-21. XE100 (-06).
- 1-22. XE102 (-06).
- 1-23. DELETE I.C. SOCKET XE108 (1215006-01).

COMPONENT ADDS:

- 1-24. ADD RESISTOR R2 (1300229).
- 1-25. R12 (1300229).
- 1-26. R3 (1301972).
- 1-27. RESISTOR R11 (1301972).
- 1-28. I.C. (23013F4-01) E100.
- 1-29. ADD I.C. (23014F4-01) E102.

LEGEND:

0-XX = PCO-UDA 001.
1-XX = PCO-UDA 004.
2-XX = PCO-UDA 011.

- 1-30. REMOVE RESISTOR R7-1300316 AND REPLACE WITH 1300365.
- 1-31. R24-1302379 1312929.
- 1-32. R25- 1312929.
- 1-33. R33- 1312929.
- 1-34. R14- 1302377.
- 1-35. R17- 1302377.
- 1-36. R27- 1302377.
- 1-37. R29- 1302377.
- 1-38. R30- 1302377.
- 1-39. R31- 1302377.
- 1-40. RESISTOR R32-1302379 1302377.
- 1-41. I.C. Y1-1811660-24 1811660-16.
- 1-42. E35-1912847 1910548.
- 1-43. E68- 1910548.
- 1-44. E69- 1910548.
- 1-45. E70- 1910548.
- 1-46. I.C. E71-1912847 1910548.
- 1-47. REMOVE CAPACITOR C43-1012784 AND REPLACE WITH 1013466-11. MOUNT IN PTH ABOVE E52-12 & PTH BELOW E53-5 AS SHOWN.
- 1-48. REMOVE RESISTOR R21-1300479 AND REPLACE WITH 1300417. MOUNT IN PTH BELOW E77-2 & PTH ABOVE E87-9 AS SHOWN.

WIRE ADDS-COMPONENT SIDE AS SHOWN:

- 2-1. FROM PTH ABOVE Y1-8 TO PTH ABOVE Y1-9.

REVISION HISTORY		
DATE	ECO NUMBER	REV.

--	--	--

TITLE
UDA NO.1-NO ROMS

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	M7161-0-0	A
SCALE		SHEET 2 OF 2

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00		
1	1	D-MD-5014040-C-0	5014040-00	UDA NO. 1	1	
2	2		1012784-00	.047 MFD 50V +80-20% CER	92	C10-C42,C44-C69,C71-C103
3	3		1013466-08	680.0 MMF 50V 10% X7R CER	1	C9
4	4		1013466-11	.22 MFD 50V +80-20% Z5U CER	1	C43
5	5		1016549-00	47 MFD 10V +50-10% AL EL	8	C1,C2,C3,C4,C5,C6,C7,C8
6	6		1112689-00	LED .8MCD@16MA VF=5V	4	D1,D2,D3,D4
7	7		1209838-00	SKT,IC 16PIN DIP GOLD PLATE	1	XE74
8	8		1210385-01	PIN 1POS WIRE WRAP	6	TP1,TP2,TP3,TP4,TP5,TP6
9	9		1211164-06	SW,DIP 1F 1A 10POS	1	E96
10	10		1212965-04	HEADER 20POS	1	P3
11	11		1214314-00	CONN 2POS JUMPER	2	W2,W4
12	12		1214993-00	HEADER 40POS RT ANGLE SHIELD	1	P2
13	13		1215006-01	SKT,IC 14PIN DIP TIN PLATE	1	XY1
14	14		1215006-06	SKT,IC 24PIN DIP TIN PLATE	12	XE1-XE6,XE12-XE17
15	15		1216832-02	HEADER 40POS WITH LATCHES	1	P6
16	16		1216832-03	HEADER 50POS WITH LATCHES	1	P5
17	17		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
18	18		1300229-00	100.0 .25 W 5.0 % CC	7	R4,R5,R6,R22,R34,R2,R12
19	19		1300316-00	470.0 .25 W 5.0 % CC	4	R8,R9,R13,R20
20	20		1300365-00	1.0 K .25 W 5.0 % CC	4	R1,R10,R19,R7
21	21		1300417-00	2.20 K .25 W 5.0 % CC	1	R21
22	22		1301972-00	270.0 .25 W 5.0 % CC	2	R3,R11
23	23		1302377-00	39.0 .25 W 5.0 % CC	7	R14,R17,R27,R29,R30,R31,R32
24	24		1302379-00	75.0 .25 W 5.0 % CC	6	R15,R16,R18,R23,R26,R28
25	25		1305125-00	383.0 .25 W 1.0 % RN55D-F10	2	R36,R40
26	26		1311422-00	178.0 .25 W 1.0 % RN55D-F10	4	R35,R37,R38,R39
27	27		1312114-00	R NETWORK 8-1.39K 5.0 % 10PIN	1	E11
28	28		1312929-00	62.0 .25 W 5.0 % CC	3	R24,R25,R33
29	29		1316395-00	R NETWORK 9-4.7K 2.0 % 10PIN	1	E42
30	30		1617533-00	DELAY= 250NS,5TAPS 14PIN DIP	1	E108

REVISION HISTORY			BASIC PART NO: M7161		DRN:	R. MICHAUD	DATE: 11-NOV-80	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A					TITLE PARTS LIST			
---	INITIAL	A	SECTION VARIATION INDEX		CHK'D:	C. RIDGEWAY	DATE: 11-NOV-80	UDA NO. 1 - NO ROMS			
			[A] 00								
			[B]								
			[C]		DES.ENG:	C. RIDGEWAY	DATE: 11-NOV-80				
			[D]								
			[E]								
			[F]		RESP.ENG.:	B. MATHRANI	DATE: 11-NOV-80	DOCUMENT NUMBER			
			[H]					SIZE	CODE	NUMBER	REV
			[J]								
			[K]		MFG.ENG.:	D. SWIFT	DATE: 11-NOV-80	K	PL	M7161-0-DBP	A
			[L]								
			[M]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			[N]		D-UA-M7161-0-0		B-0P-M7161-0		Z1748A.PLS		27

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AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1610344-00	DELAY= 58NS,5TAPS	1	E91
32	32		1811660-16	OSCILLATOR, XTAL 17.280 MHZ	1	Y1
33	33		1909705-00	DEC 8881 NAND GATE-QUAD 2IN 0	1	E84
34	34		1910532-00	74S00 NAND GATE-QUAD 2IN	2	E33,E47
35	35		1910534-00	74S04 INVERTER GATE-HEX 1I	2	E80,E92
36	36		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E90
37	37		1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E46
38	38		1910542-00	74S64 A-O-I GATE 4-2-3-2	2	E44,E89
39	39		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	E51
40	40		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	E120
41	41		1910546-00	74S140 NAND GATE-DUAL 4INPU	1	E50
42	42		1910548-00	74S157 MUX 1 OF 2 (QUAD)	5	E35,E68,E69,E70,E71
43	43		1910550-00	74S174 FF-D HEX	6	E7,E8,E21,E22,E24,E25
44	44		1910552-00	74S194 SHIFT REG.,4BIT RIGH	2	E54,E62
45	45		1910950-00	74S74 FF-D DUAL (-45 VERSI	1	E40
46	46		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	E64
47	47		1911579-00	8641 TRANSCEIVER,BUS,QUA	1	E83
48	48		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	3	E73,E82,E93
49	49		1911676-00	74S139 DECODER-DUAL TWO-INP	2	E43,E81
50	50		1911712-00	74S51 AND-OR GATE-INVERT D	1	E49
51	51		1911983-00	74S133 NAND GATE-POSITIVE 1	1	E28
52	52		1912097-00	SN 74S182 LOOK AND CARRY GEN	1	E45
53	53		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	2	E67,E126
54	54		1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	E48,E86
55	55		1912728-00	74S251 MUX 1 OF 8 TRI-STA	4	E72,E77,E78,E79
56	56		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E98
57	57		1912803-00	74LS04 INVERTER GATE,HEX	2	E85,E109
58	58		1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E65
59	59		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E99
60	60		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	E125
61	61		1912842-00	LS138 DECODER-THREE INPUT,	1	E75
62	62		1912860-00	LS259 LATCH 8BIT	1	E66
63	63		1912863-00	LS273 FF-D OCTAL W/CLEAR	3	E20,E41,E104
64	64		1912864-00	LS279 LATCH,QUAD-S-R	1	E76
65	65		1913040-00	DC 005 TRANSCEIVER 4BIT	4	E94,E95,E106,E107
66	66		1913245-02	2901A-1 MICROPRESCCESSOR 4-	4	E55,F56,E57,E58
67	67		1913414-00	LS14 INVERTER GATE-HEX SC	1	E87
68	68		1913939-00	LS191 COUNTER,SYNCHR. UP/D	2	E112,E122
69	69		1914214-00	LS374 FF-D OCTAL EDGE TRIG	6	E23,E26,E27,E113,E114,E123
70	70		1914438-00	DC 013 UNIBUS INTERRUPT-BIP	2	E116,E117
71	71		1914451-00	74LS393 COUNTER,BINARY,4BIT	1	E111
72	72		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2	E59,E63
73	73		1915218-00	LS245 TRANSCEIVER,BUS,OCT	2	E105,E115
74	74		1915305-00	AM 2908 TRANSCEIVER,BUS,LATCH	4	E52,E53,E60,E61
75	75		1916680-01	2911A MICROPROGRAM SEQUENC	6	E9,E10,E18,E19,E29,E30
76	76		1917956-00	74LS280N PARITY GEN/CHK,9BIT	6	E31,E32,E34,E36,E37,E38
77	77		23301E2-00	E2-06	1	E100
78	78		23302E2-00	E2-06	1	E102

D	I	O	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
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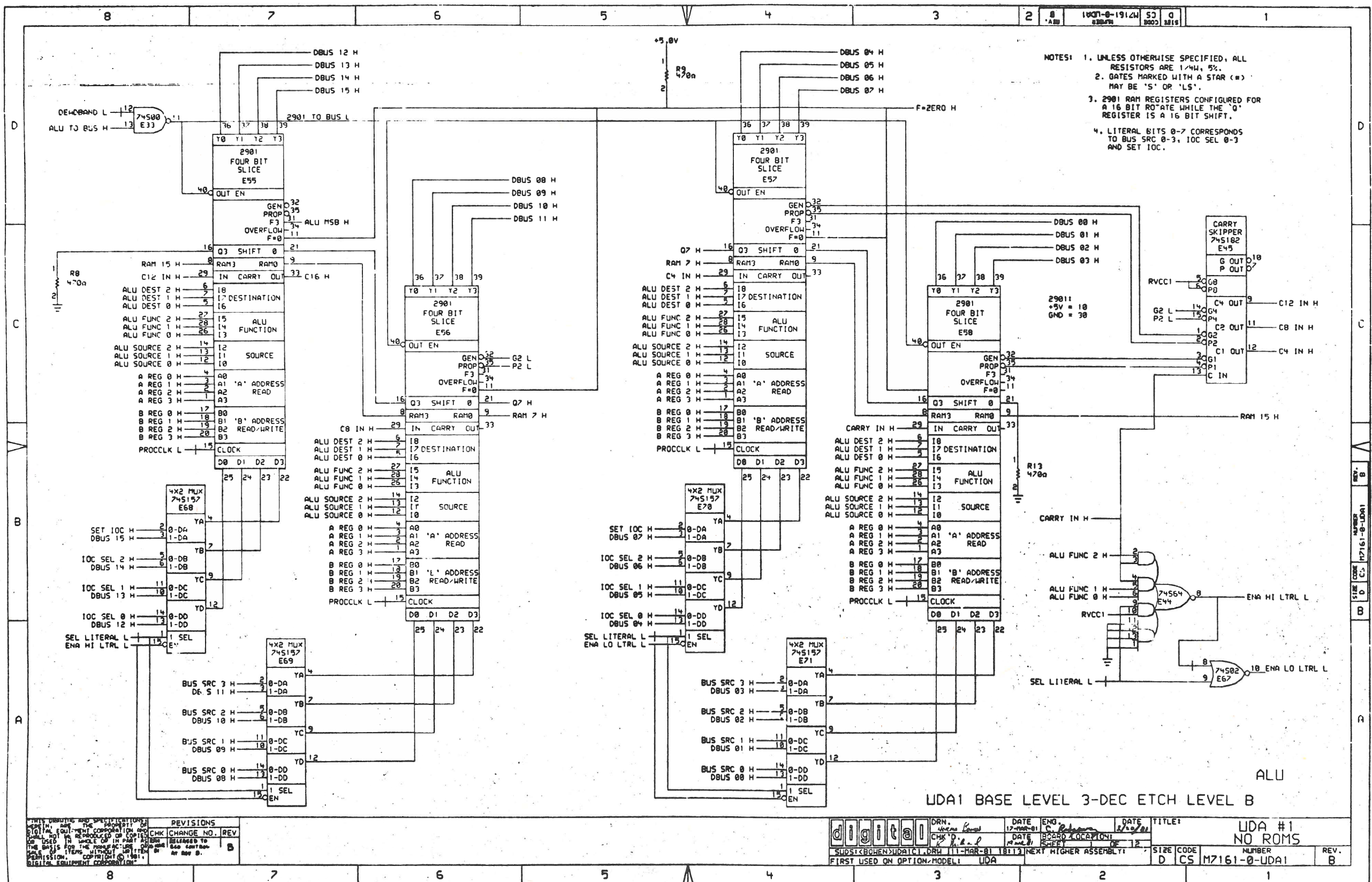
AUTOMATED BY PRTLST.3P(44)

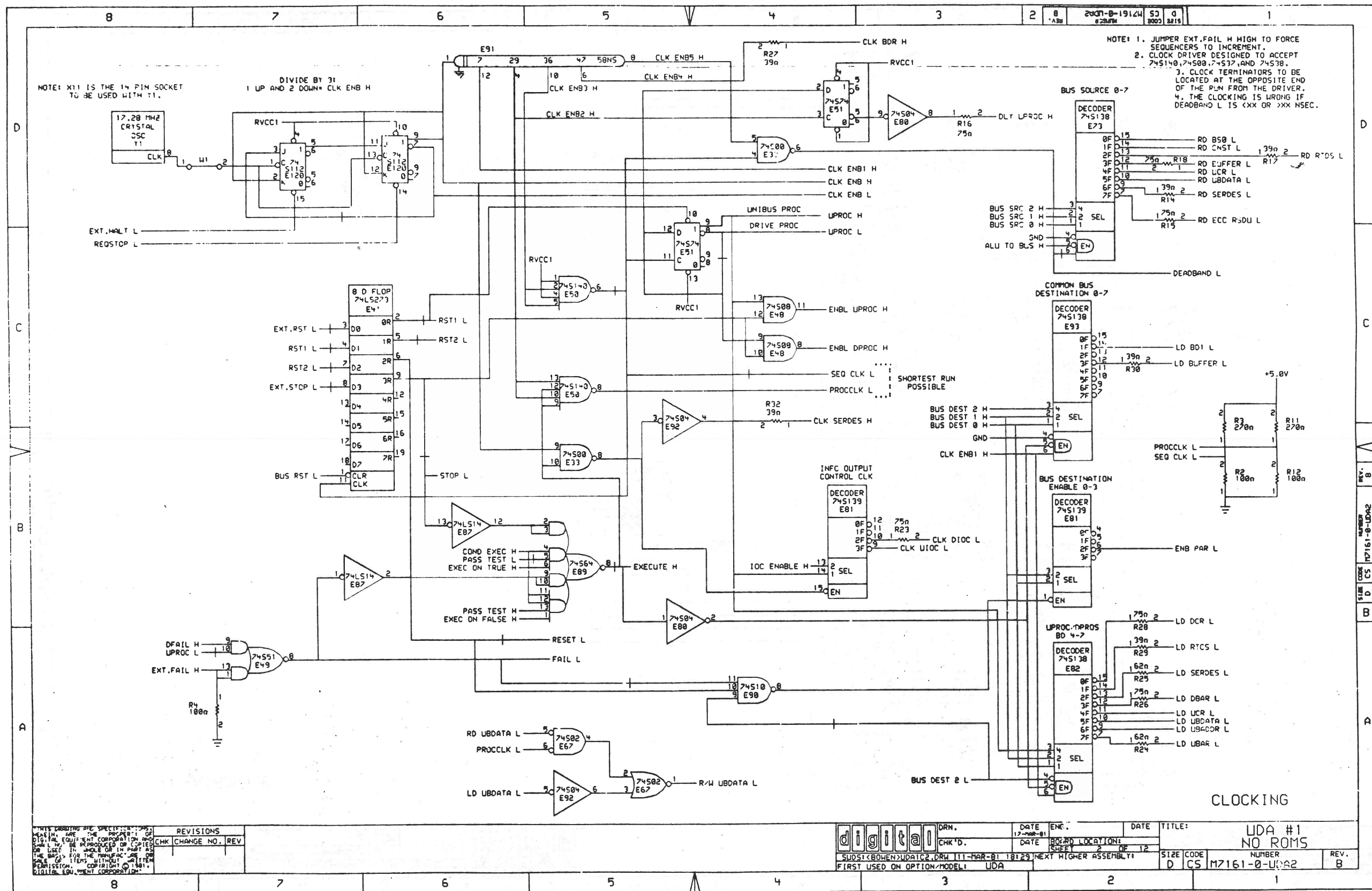
PARTS LIST

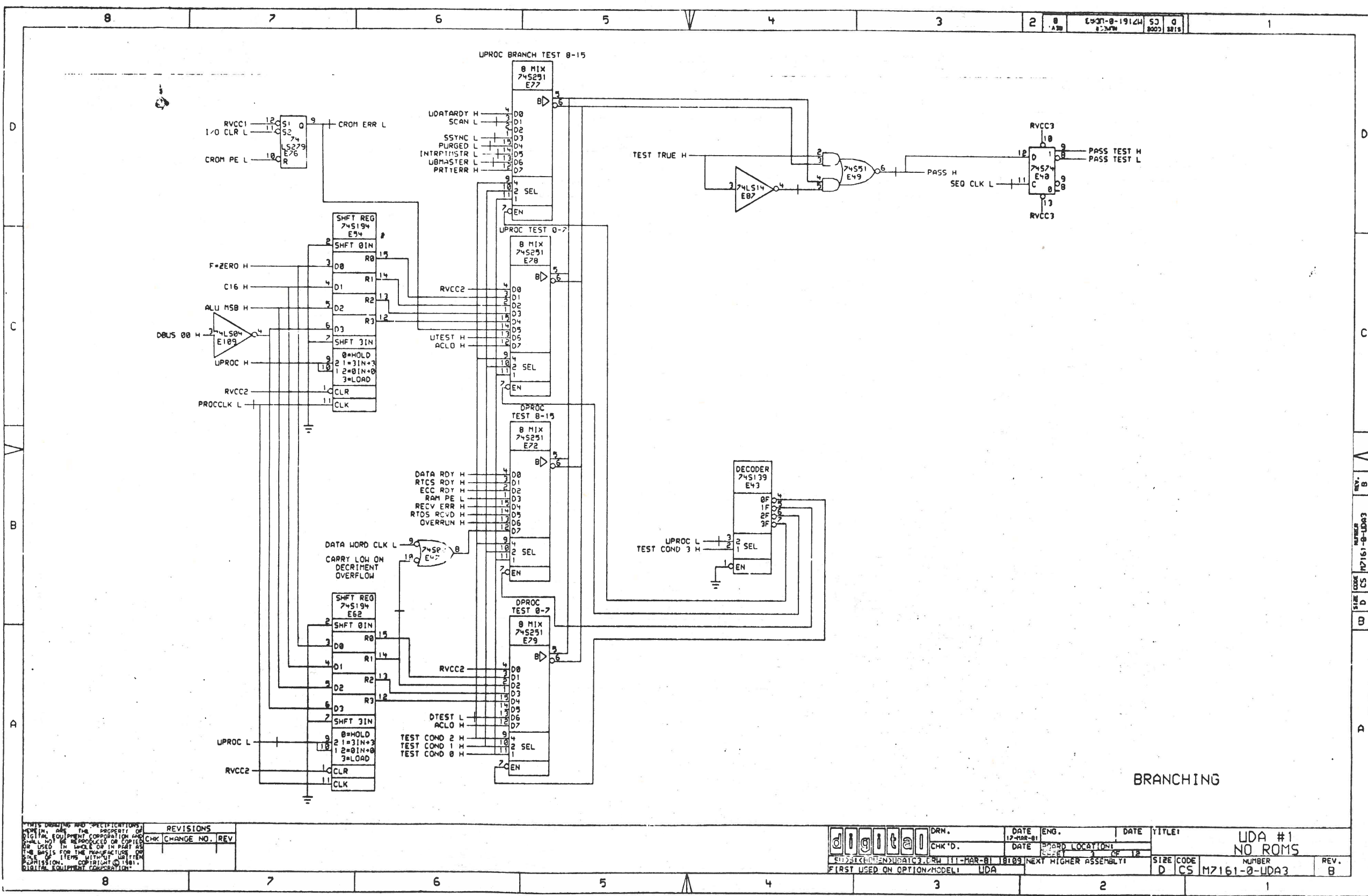
SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		4901259-00	ADHESIVE KIT,ETHYL CYANOACRYLATE	A/R	
80	80		5408778-00	PLUG PRIORITY	1	E74
81	81		9000024-01	EYELET,ROLL FLANGE .1210DX .192	11	
82	82		9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	
83	83		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA NO. 1 - NO ROMS		K	PL	M7161-0-DBP	A

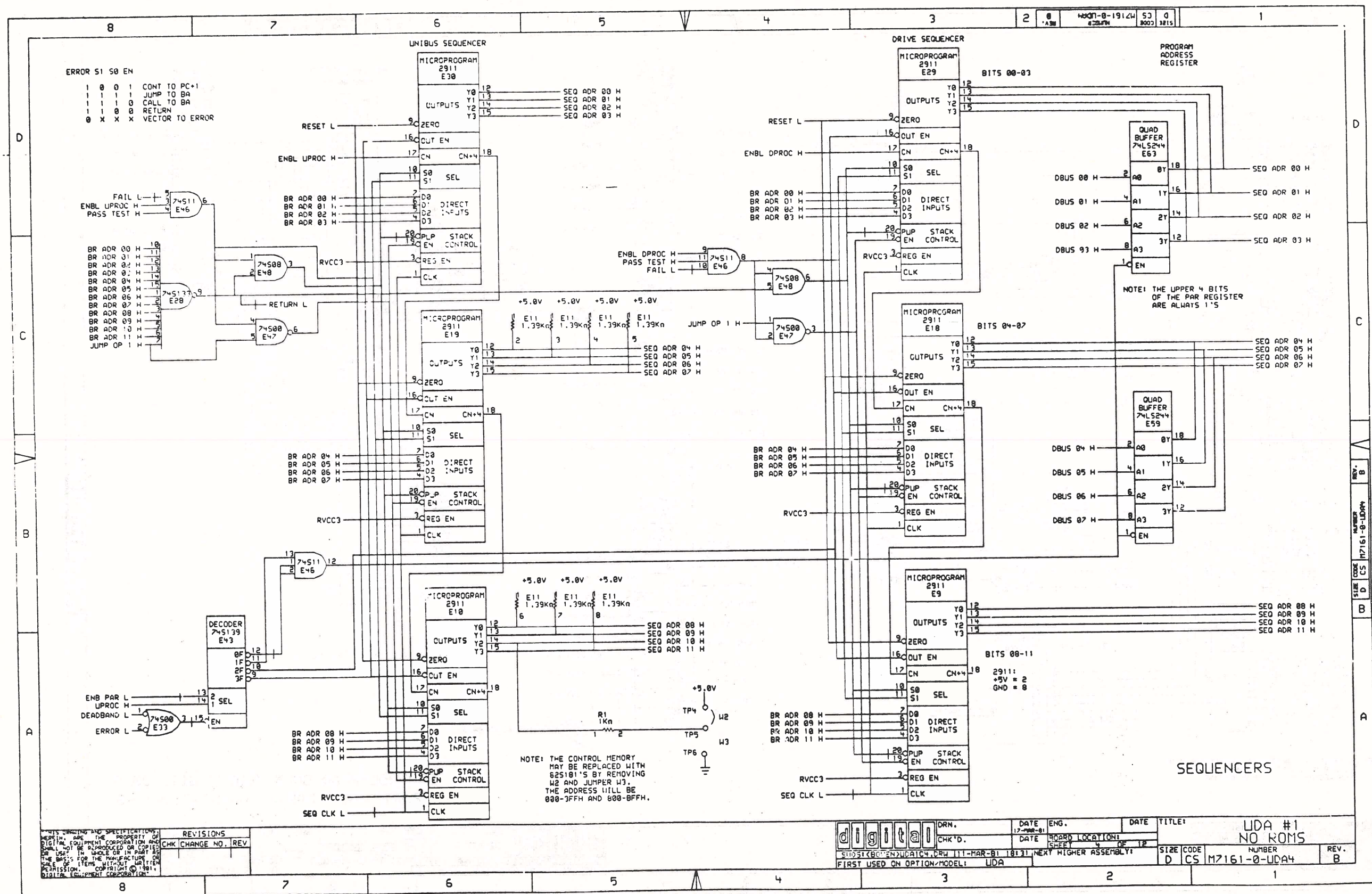


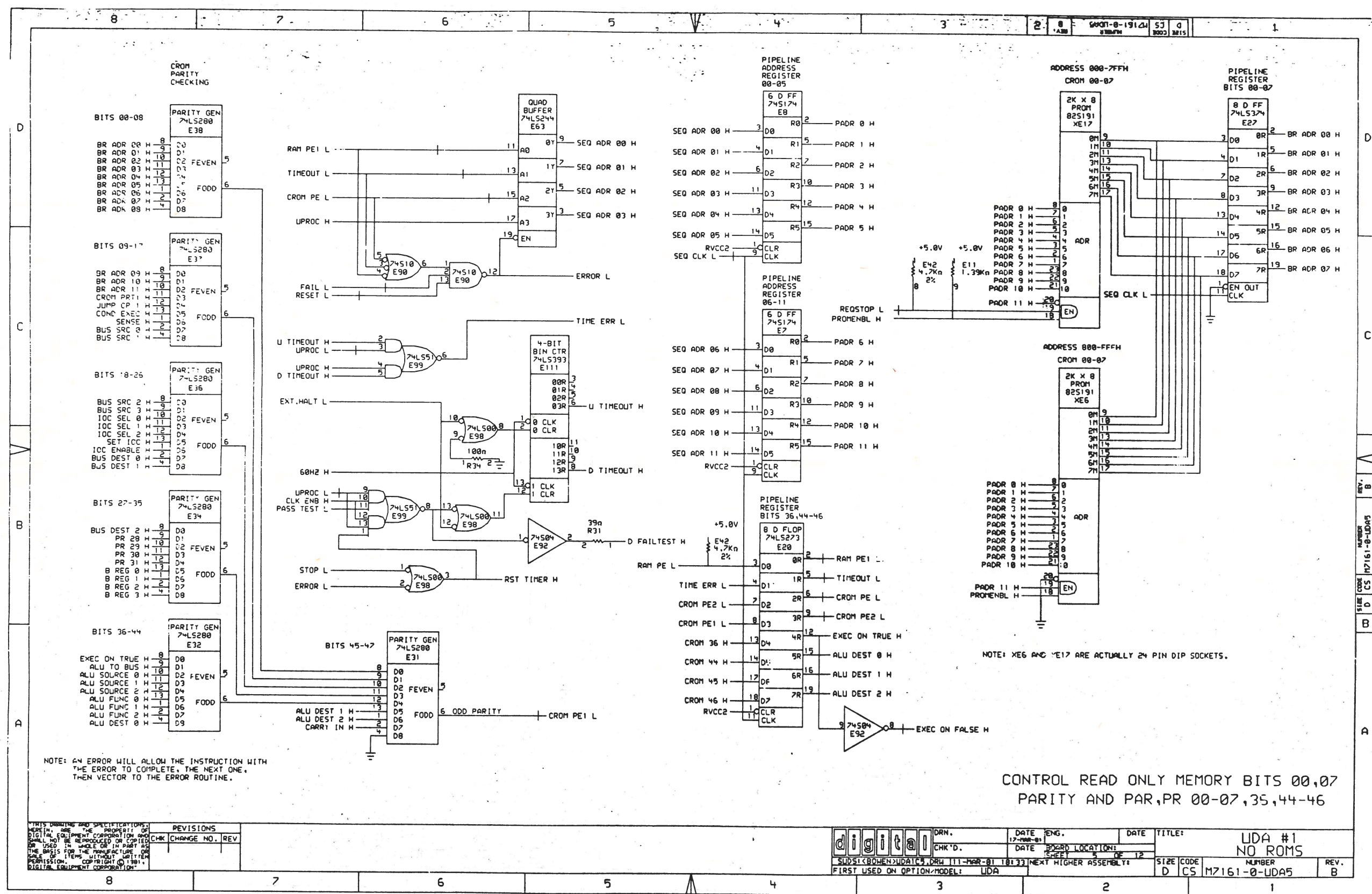


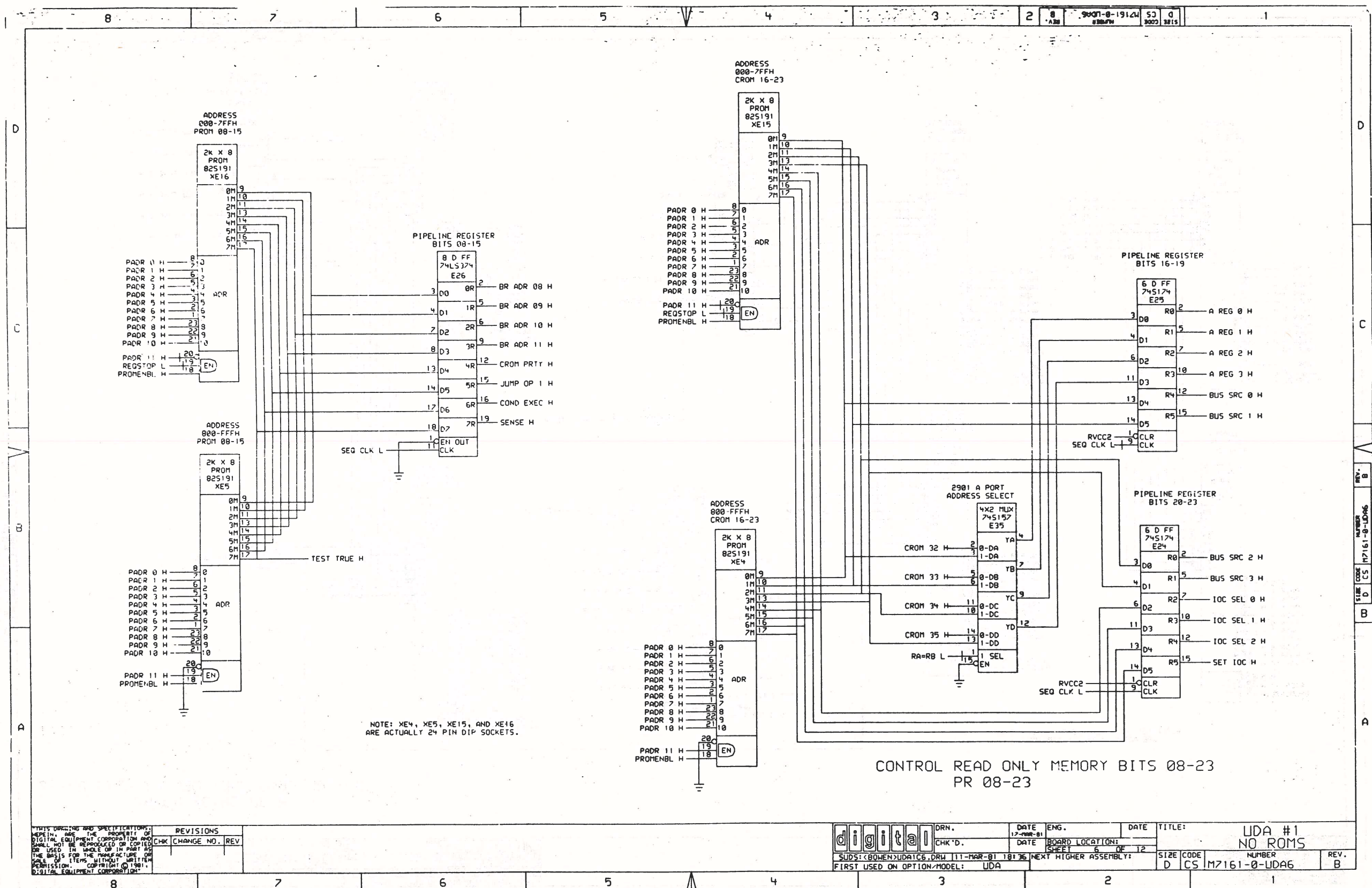


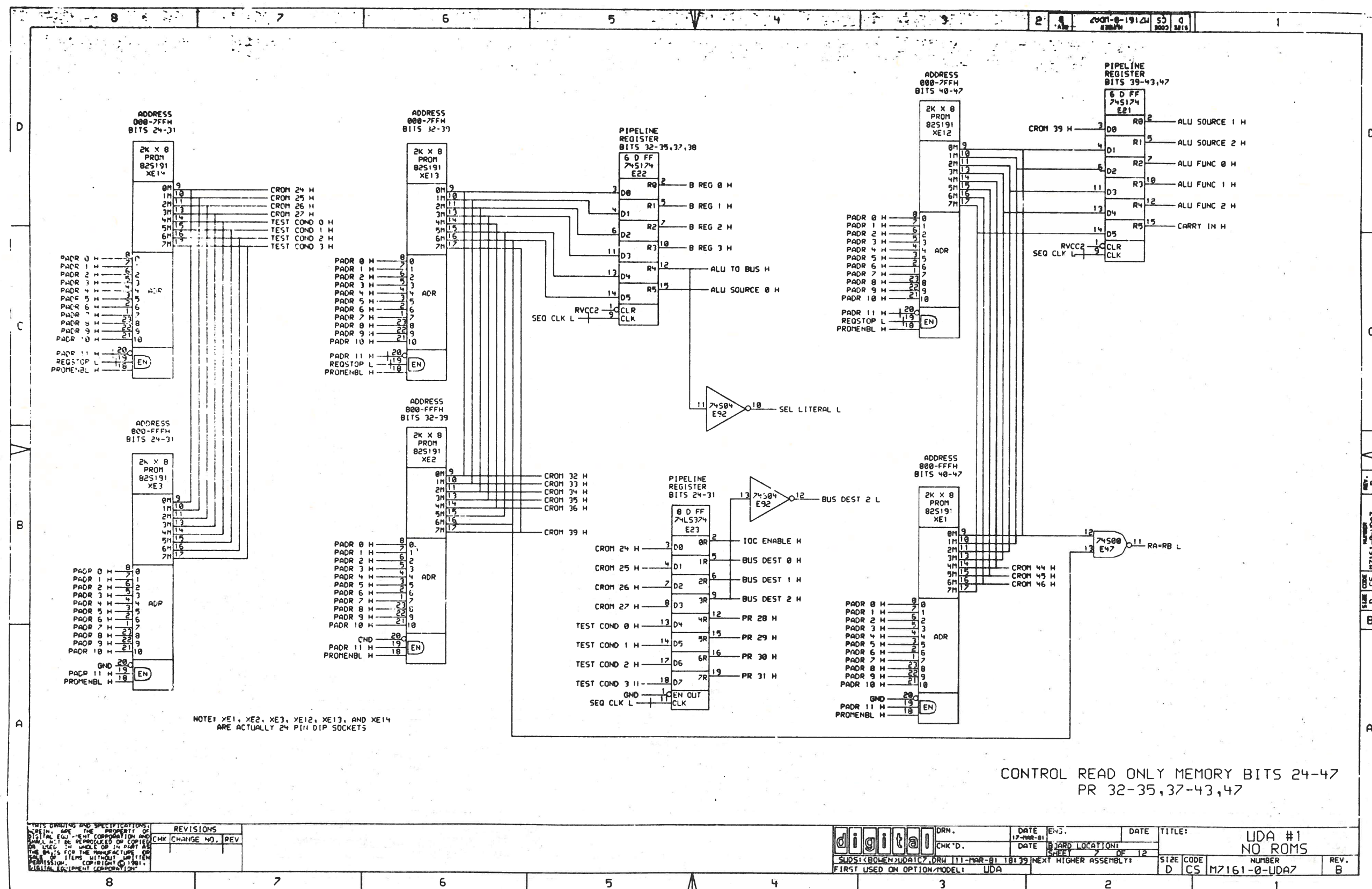
REVISIONS		
CHK	CHANGE NO.	REV

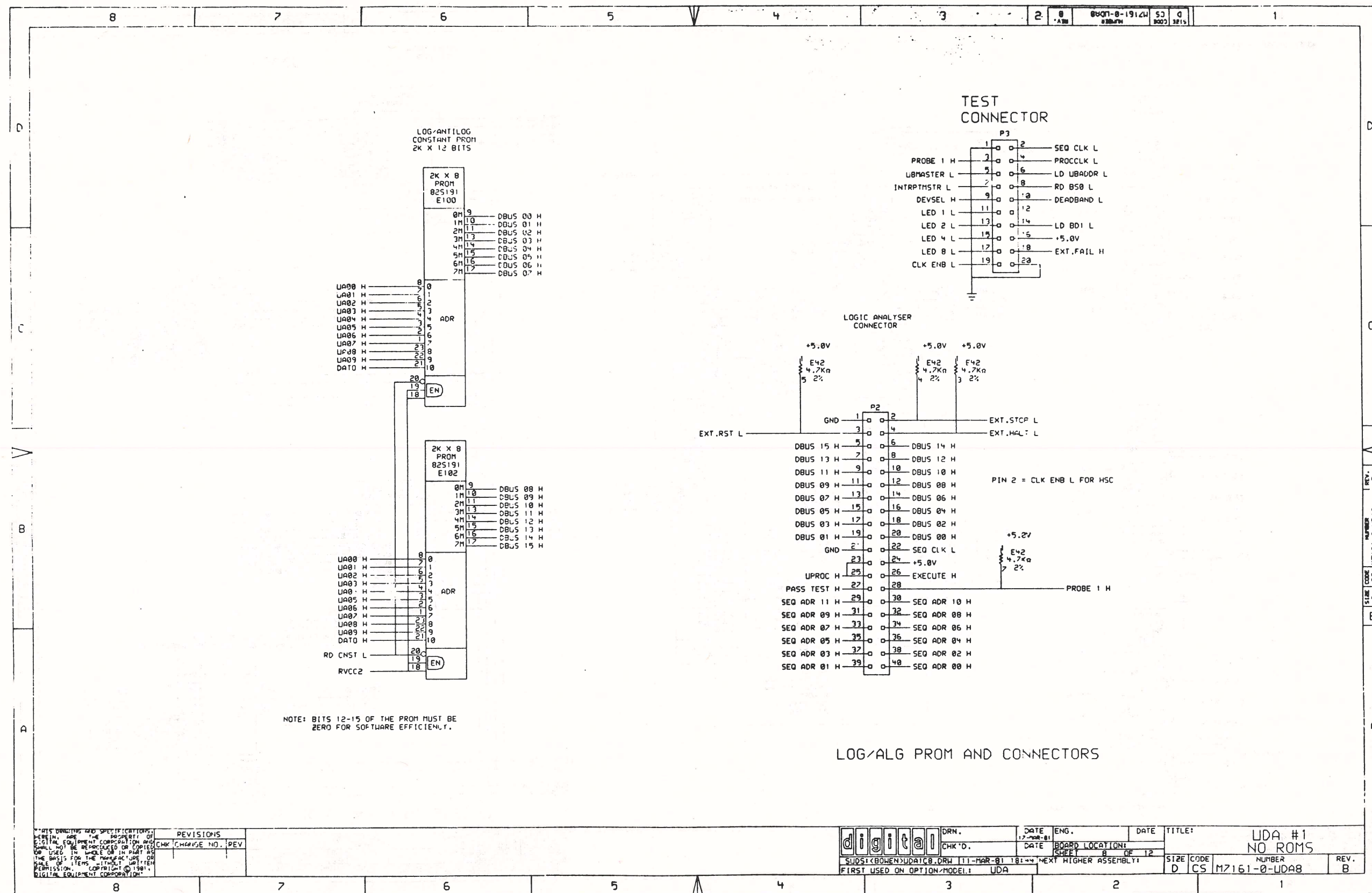
digital	DRN.	DATE	ENG.	DATE	TITLE
	CHK'D.	DATE	BOARD LOCATION		
E1251K001N00A1C3.LAW 111-MAR-81 18109 NEXT HIGHER ASSEMBLY					
FIRST USED ON OPTION/MODEL: UDA					
SIZE	CODE	NUMBER	REV.		
D	CS	M7161-0-UDA3	B		



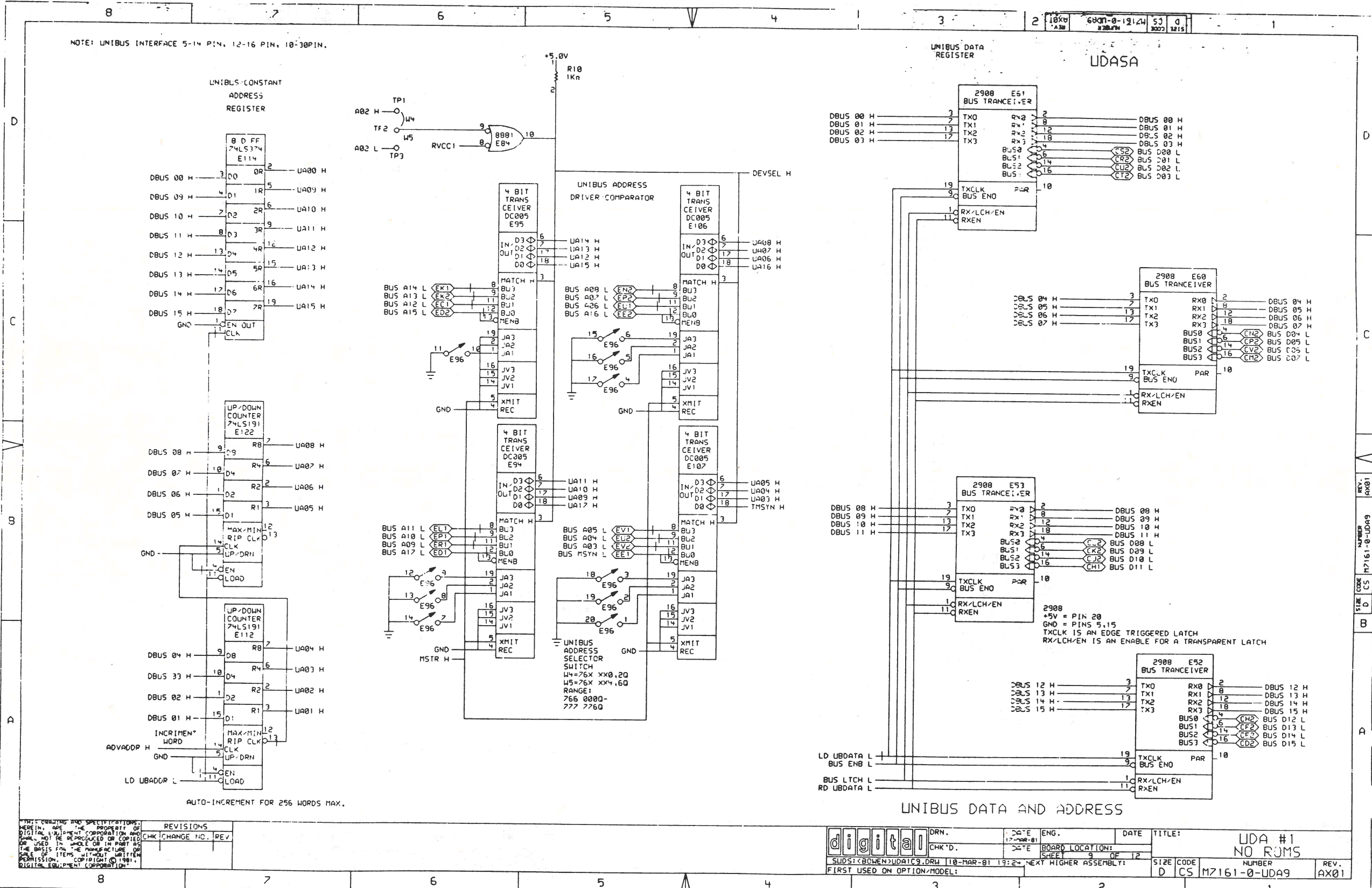






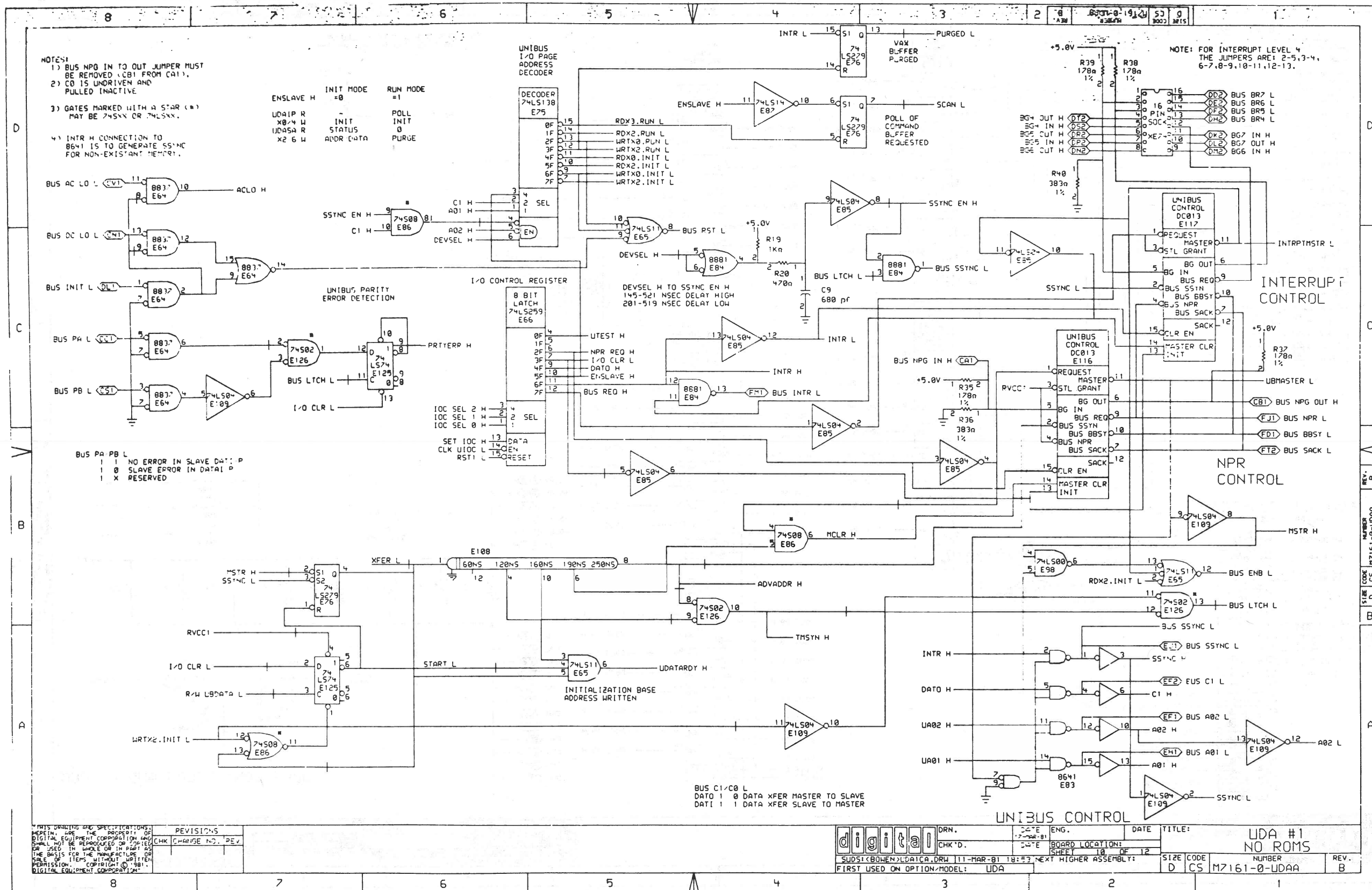


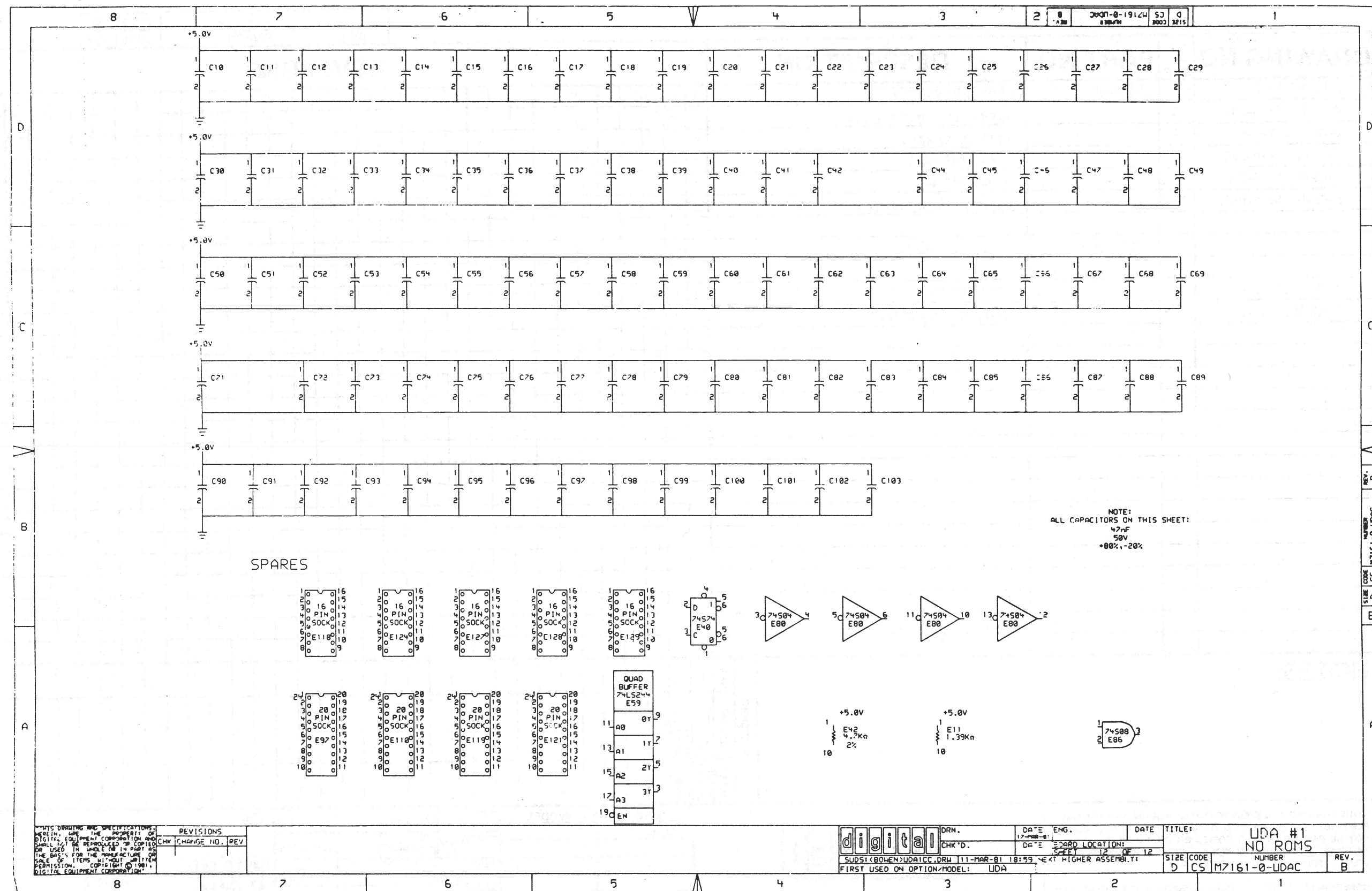
NOTE: UNIBUS INTERFACE 5-14 PIN, 12-16 PIN, 10-30 PIN.



REV.	CHG.	NO.	REV.
1		1	

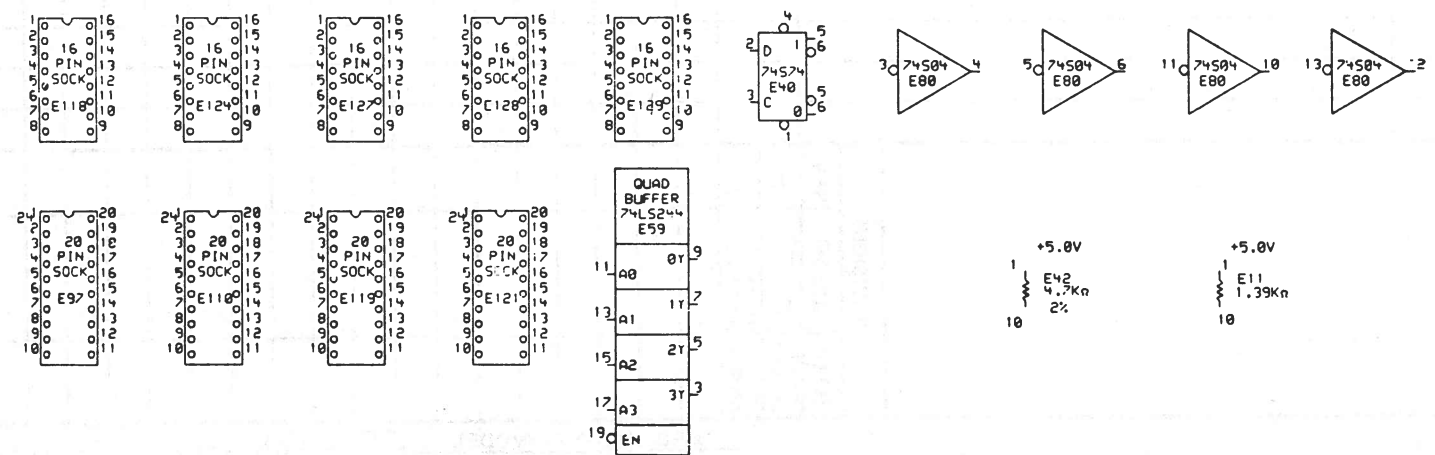
digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	17-MAR-81			UDA #1
SUBS: (BOWEN) UDA1C9.DRW 10-MAR-81 19:24				BOARD LOCATION:	NO RUMS
FIRST USED ON OPTION/MODEL:				SHEET 9 OF 12	
				SIZE CODE	NUMBER
				D CS	M7161-0-UDA9
				REV.	AX01





NOTE:
ALL CAPACITORS ON THIS SHEET:
47nF
50V
+80%,-20%

SPARES



REVISIONS	
CHG	CHANGE NO. REV

digital		DRN.	DATE	ENG.	DATE	TITLE
CHK'D.						UDA #1
						NO ROMS
FIRST USED ON OPTION/MODEL: UDA						
SIZE	CODE	NUMBER	REV.			
D	CS	M7161-0-UDAC	B			

[illegible]

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COMPONENT SIDE VIEW

DETAIL A
4 PLACES

SEE NOTE 7

SEE NOTE 2

SEE NOTE 3

SEE NOTE 8

NOTES: FOR NOTES SEE SHEET 2.

STEP E	→ Y AXIS NA	STEP	TIMES
REPEAT	→ X AXIS NA	STEP	TIMES

CHK CHANGE NO	REV
1376 M7162-0001	C
1376 M7162-0001	5-4-82
1376 M7162-0001	1 PULSIFER
1376 M7162-0001	1376 M7162-0001

ETCH REV. C-P2

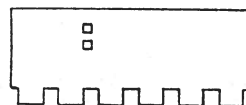
SIGNATURES	DATE	digital
ORN. Schindler	5-4-82	
CHK'D. Schindler	5-4-82	
MECH. ENG. Schindler	5-4-82	
PROJ. ENG. Schindler	5-4-82	
PROD. D. Schindler	5-4-82	
SCALE 1.5/1	SIZE CODE	NUMBER
SHT. 1 OF 2	UA	M7162-0-0
NEXT HIGHER ASSY. B-DD-M7162-0	REV	C

1 MC#2900290

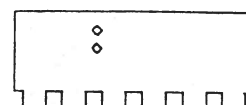
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NOTES:

1. D18, D19, D20 & D21 TO BE MOUNTED ON COMPONENT SIDE, LONGER LEG TO LEFT. LEAVE LEADS APPROX. .18" LONG IN ORDER TO BEND OVER AS SHOWN.
2. PLEASE FOLLOW CMOS HANDLING PROCEDURES WHEN INSTALLING E100-E103, E110-E112, E114-E116, E125-E128, E137-E140. = VERY IMPORTANT =
3. PINS T1-T15 (I210385-01) MUST BE INSTALLED ON BOARD WITH SIDES PARALLEL TO EDGES OF BOARD.



THIS



NOT THIS

JUMPERS W4-W8 (I214314-00) ARE INSTALLED AS FOLLOWS:

JUMPER W4-PINS T1 & T2
JUMPER W5-PINS T4 & T5
JUMPER W6-PINS T7 & T8
JUMPER W7-PINS T11 & T12
JUMPER W8-PINS T13 & T14

4. THE FOLLOWING ARE SPARES ON THE BOARD. THEY CAN BE USED FOR ADDING COMPONENTS TO THE CIRCUIT: E27, E24, E1, E5, E11, E17, E18, E19, E20, E21, E6, E12, E22, E63, E89, E124, E146, C50, C53, C59, C114, C21-NOT USED C200-C206, C210-C215.
5. THE FOLLOWING ARE EXTRA ECL DATA BUS TERMINATION RESISTORS WHICH CAN BE USED TO "TWEAK" THE ECL LINES IF NECESSARY: R172, R177, R178, R179, R142, R158, R159, R164, R163, R162, R160, R161, R22, R5, R23, R24.
6. RESISTORS R204, R700, R701, R702, R703 APPEAR ON SHEET 1 OF THIS DOCUMENT, BUT ARE NOT IN SEQUENTIAL ORDER.
7. CONNECTOR P1 (I216832-03) TO BE MOUNTED ON COMPONENT SIDE WITH PIN 1 TO THE FAR LEFT.
8. MOUNT ITEM 83 (E30, E37, E48, E52, E54, E64) FLUSH WITH BOARD.

REVISION HISTORY		
DATE	ECO NUMBER	REV.

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TITLE U.D.A. NO. 2

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	M7162-0-0
SCALE		REV.
++		C
SHEET 2 OF 2		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	E-MD-5014921-0-0	5014921-00	DRILL AND ETCH BRD.	1	
2	2		1212385-00	*** THIS ITEM IS NOT USED ***	-	
3	3		1012784-00	.047 MFD 50V +80-20% CER	124	C1-C5,C7-C15,C17-C20,C22-C49, C51,C52,C54-C58,C60-C113, C115-C118,C128,C129,C133,C134, C140-C148 C6,C16 C130,C131,C132 C120-C127 C135-C138 D6,D2,D14,D10,D8,D4,D16,D12 D5,D1,D13,D9,D7,D3,D15,D11 D17 D18-D21 F1 T1-T15 P2 W4-W8 P3 P1 P4 R16,R43,R29,R32,R45,R58,R61,R72, R82,R87,R89,R101,R103,R111,R110, R128 R156,R141,R135,R187,R183,R185, R153,R150,R182,R192,R155,R170, R700,R701,R702,R703 R52,R15,R109,R81,R67,R38,R123, R96
4	4		1013466-09	1000.0 MMF 50V 10% X7R CER	2	
5	5		1013466-11	.22 MFD 50V +80-20% Z5U CER	3	
6	6		1015878-00	.01 MFD 50V +80-20% CER	8	
7	7		1016549-00	47 MFD 10V +50-10% AL EL	4	
8	8		1104860-00	1N 746A VZ= 3.3 5%	8	
9	9		1105275-00	D 672 TR= 15NS PIV= 60V SI	8	
10	10		1110836-00	1N 759A VZ= 12.0 5% .40W	1	
11	11		1112689-00	LED .8MCD@16MA VF=5V	4	
12	12		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	
13	13		1210385-01	PIN 1POS WIRE WRAP	15	
14	14		1212965-04	PCB,HEADER 20PIN(2X05).100CC 90D	1	
15	15		1214314-00	CONN,P+S 02SKT(1X02).100CC JUM	5	
16	16		1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	1	
17	17		1216832-03	PCB,HEADER 50POS(2X25).100CC 90D	1	
18	18		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
19	19		1218348-00	PCB,HEADER 32PIN(2X16).100CC 90D	1	
20	20		1300202-00	47.0 .25 W 5.0 % CC	16	
21	21		1300247-00	120.0 .25 W 5.0 % CC	16	
22	22		1300271-00	220.0 .25 W 5.0 % CC	8	

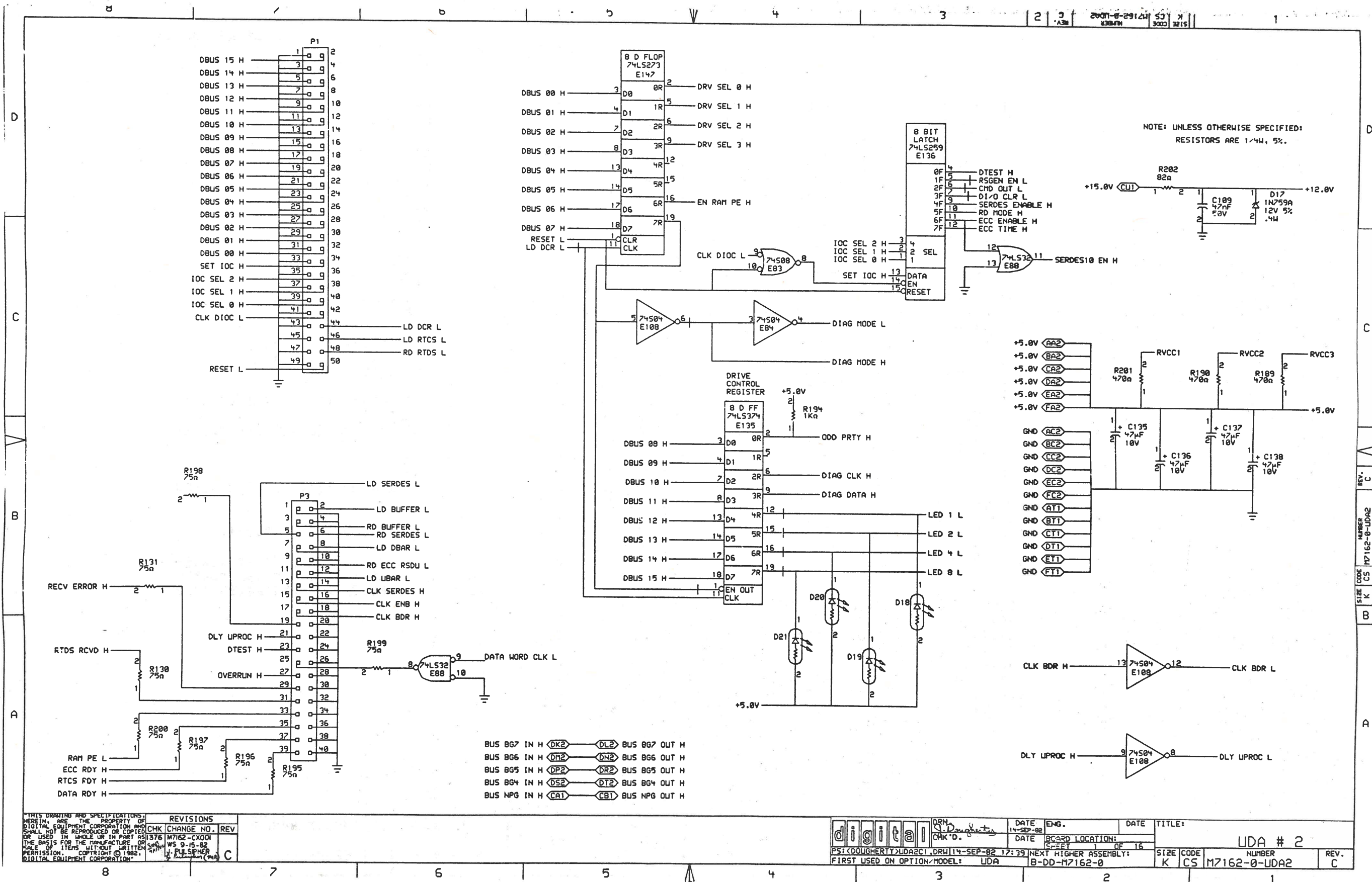
REVISION HISTORY		BASIC PART NO: M7162		DRW: S. BOURBEAU		DATE: 20-JAN-81		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R. MICHAUD		DATE: 20-JAN-81		TITLE PARTS LIST	
INITIAL			SECTION VARIATION INDEX	DES.ENG: J. PULSIPHER		DATE: 20-JAN-81		UDA # 2	
162-CX001			[A] 00	RESP.ENG.: B. MATHRANI		DATE: 20-JAN-81		DOCUMENT NUMBER	
			[B]					SIZE CODE NUMBER REV	
			[C]					K PL M7162-0-DBP C	
			[D]						
			[E]						
			[F]						
			[G]						
			[H]						
			[I]						
			[J]						
			[K]						
			[L]						
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[N]	D-UA-M7162-0-0		B-DD-M7162-0		Z1770C.PLS 21	
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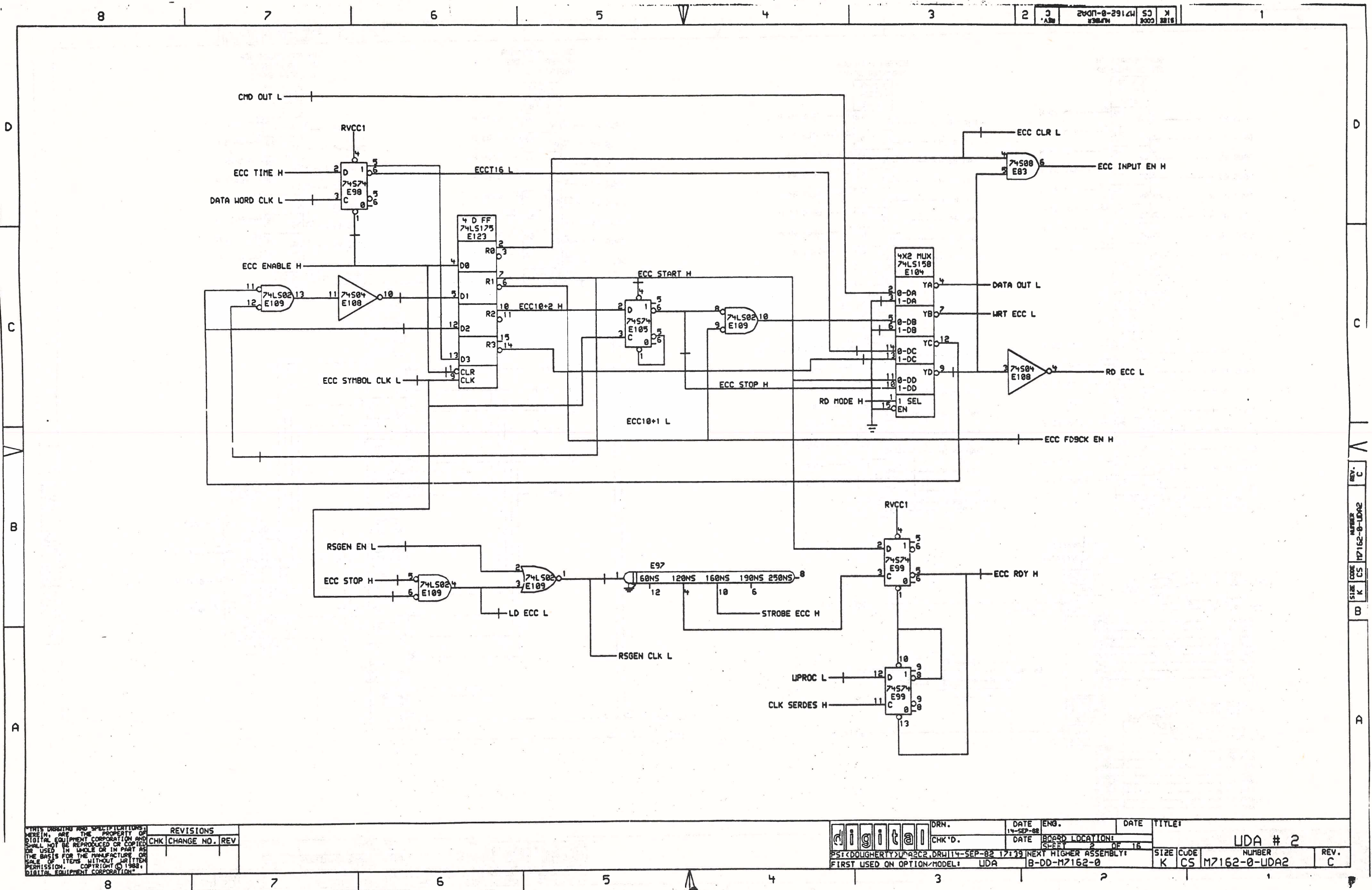
SHEET A2 OF A3

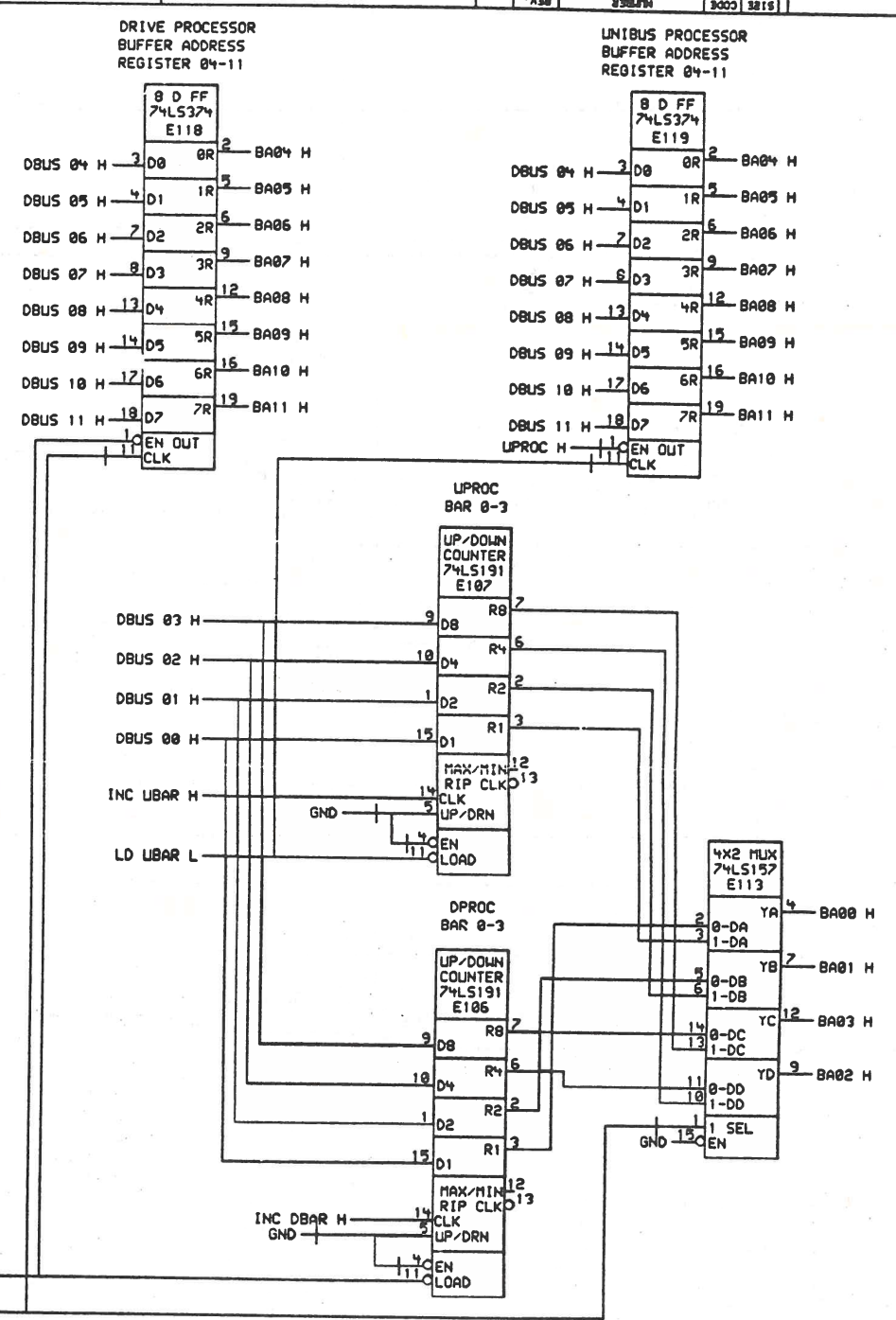
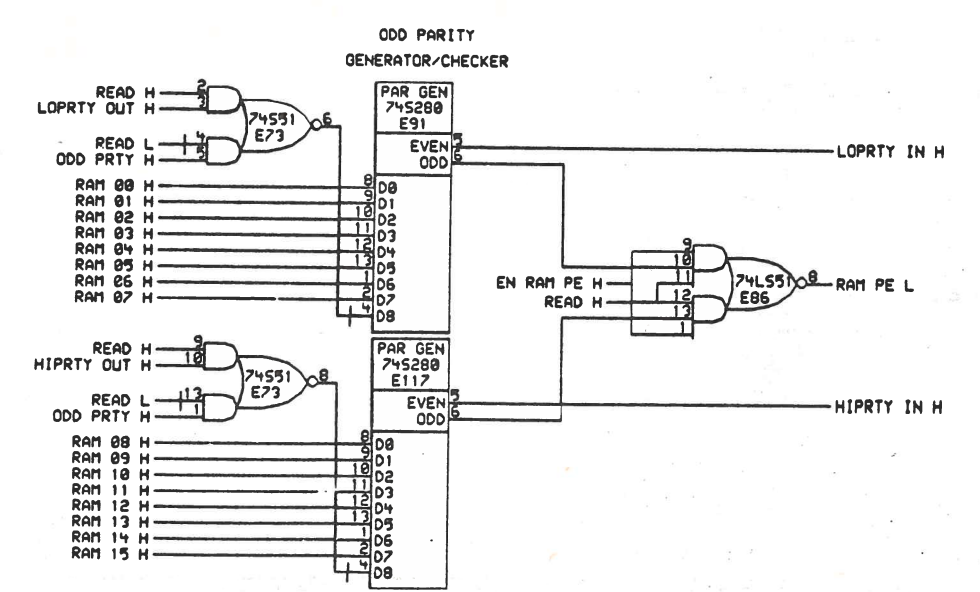
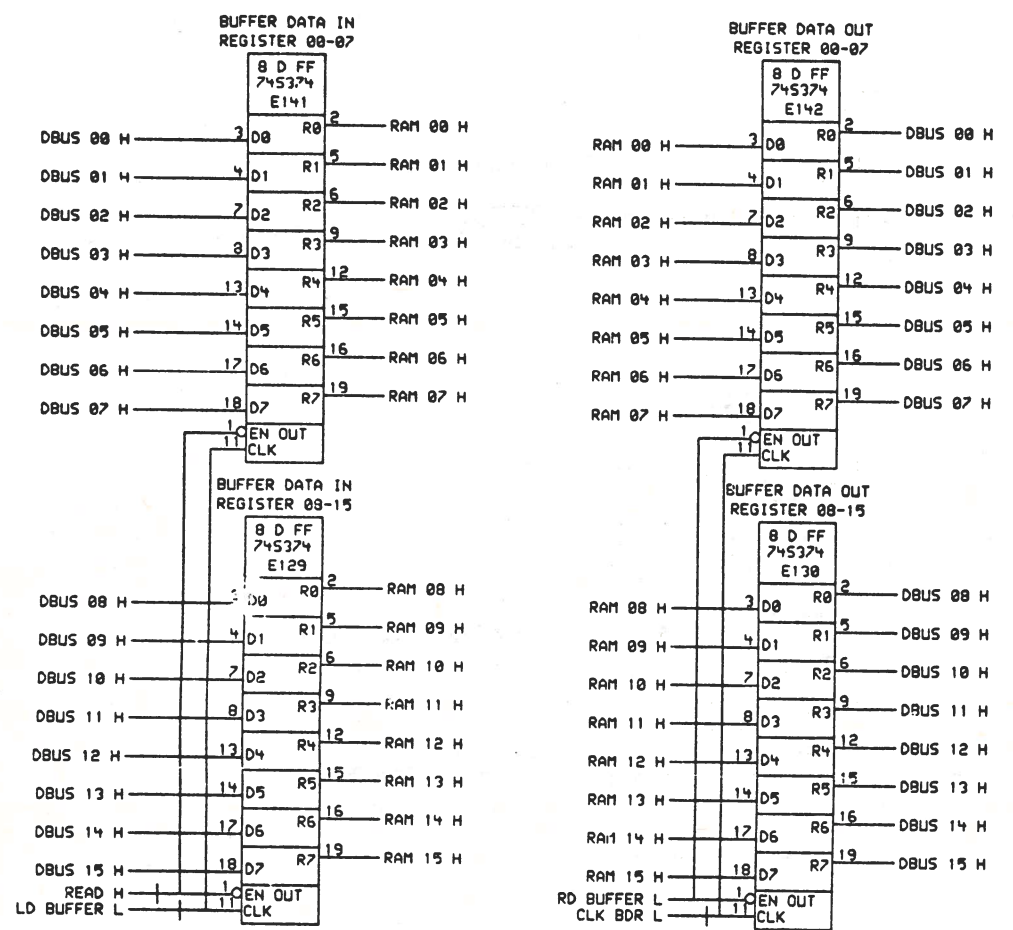
D	I	G	I	T	A	L	TITLE	UDA # 2	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M7162-0-DBP	C

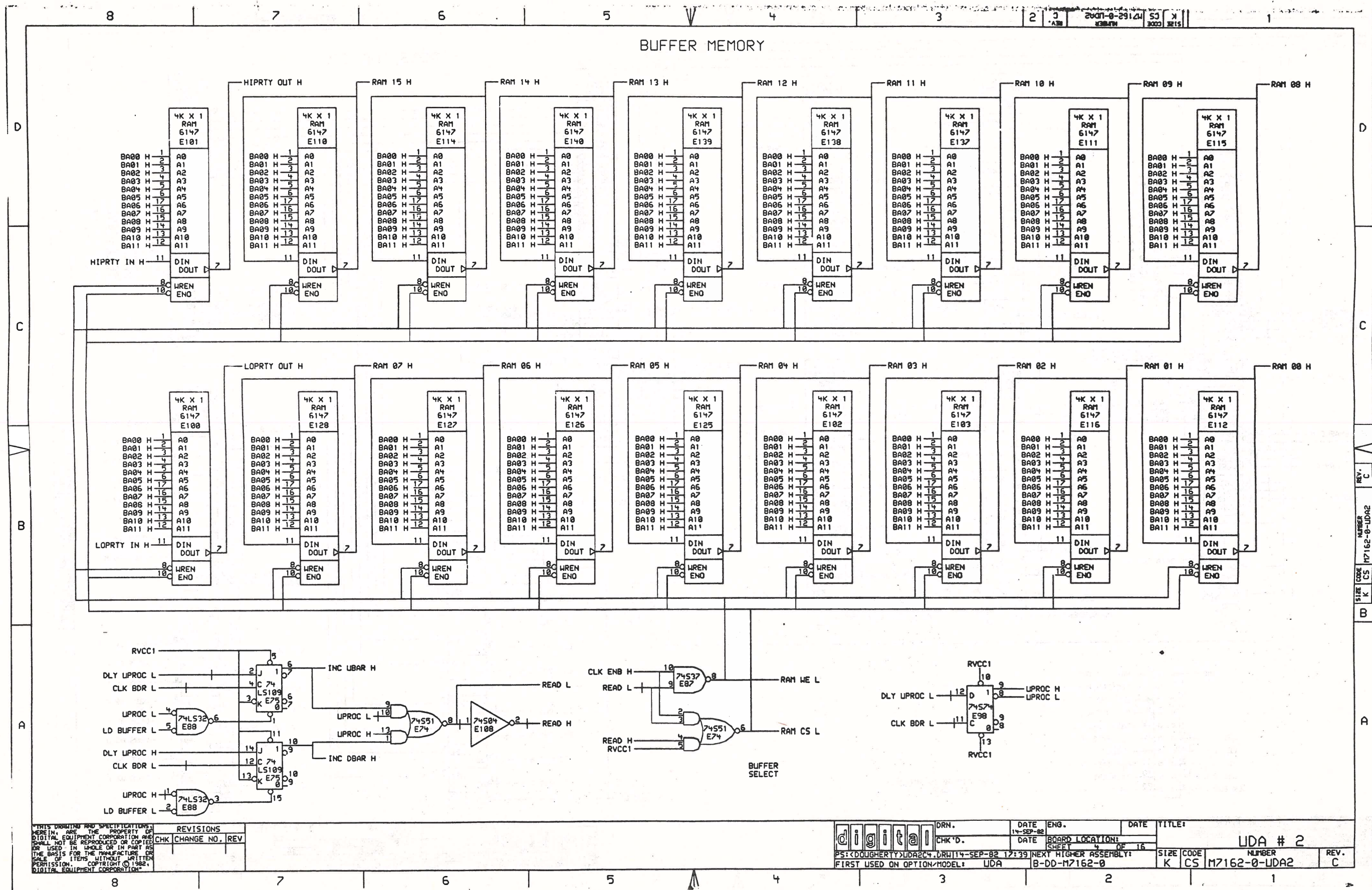
SHEET A3 OF A3

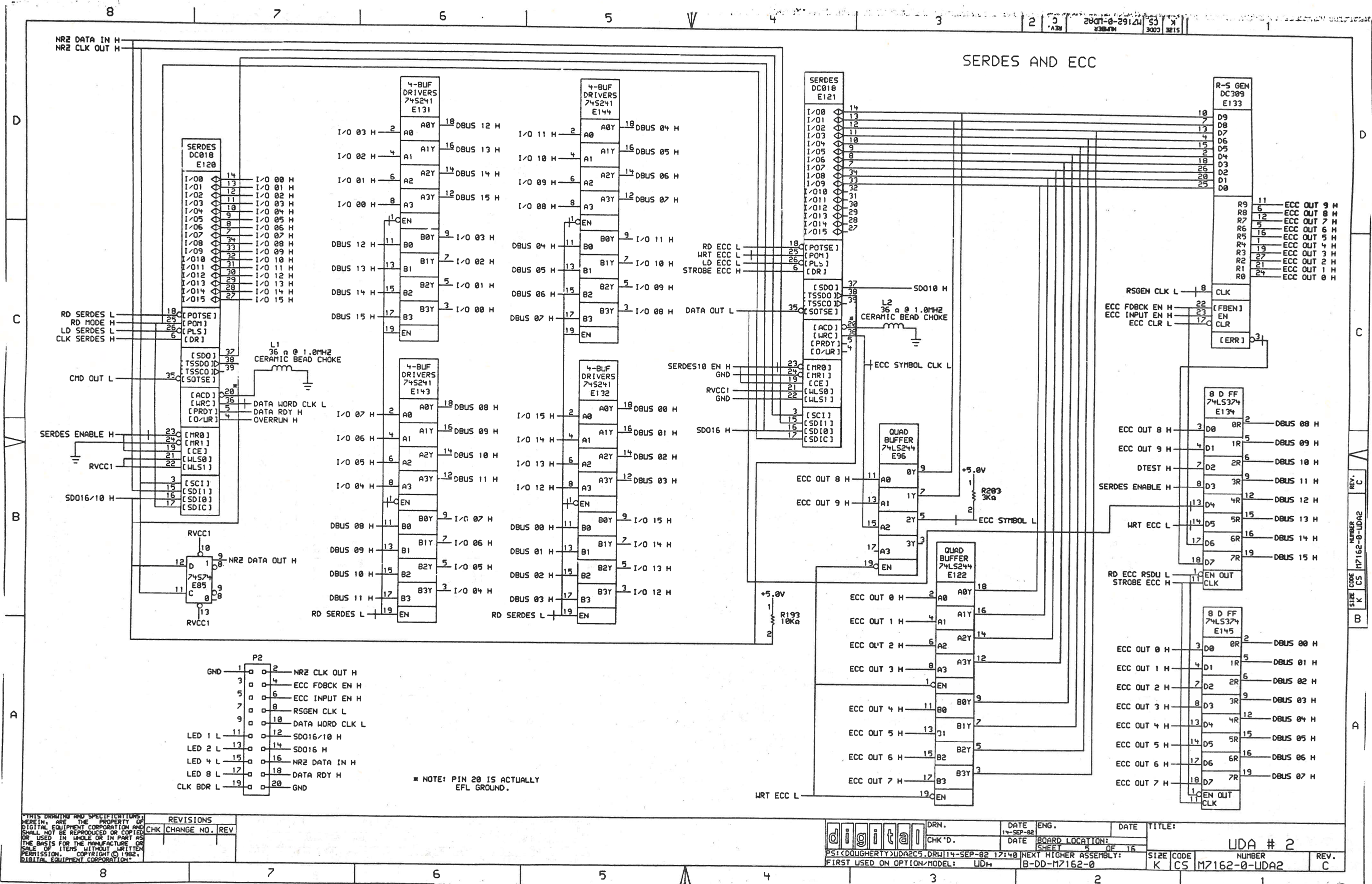
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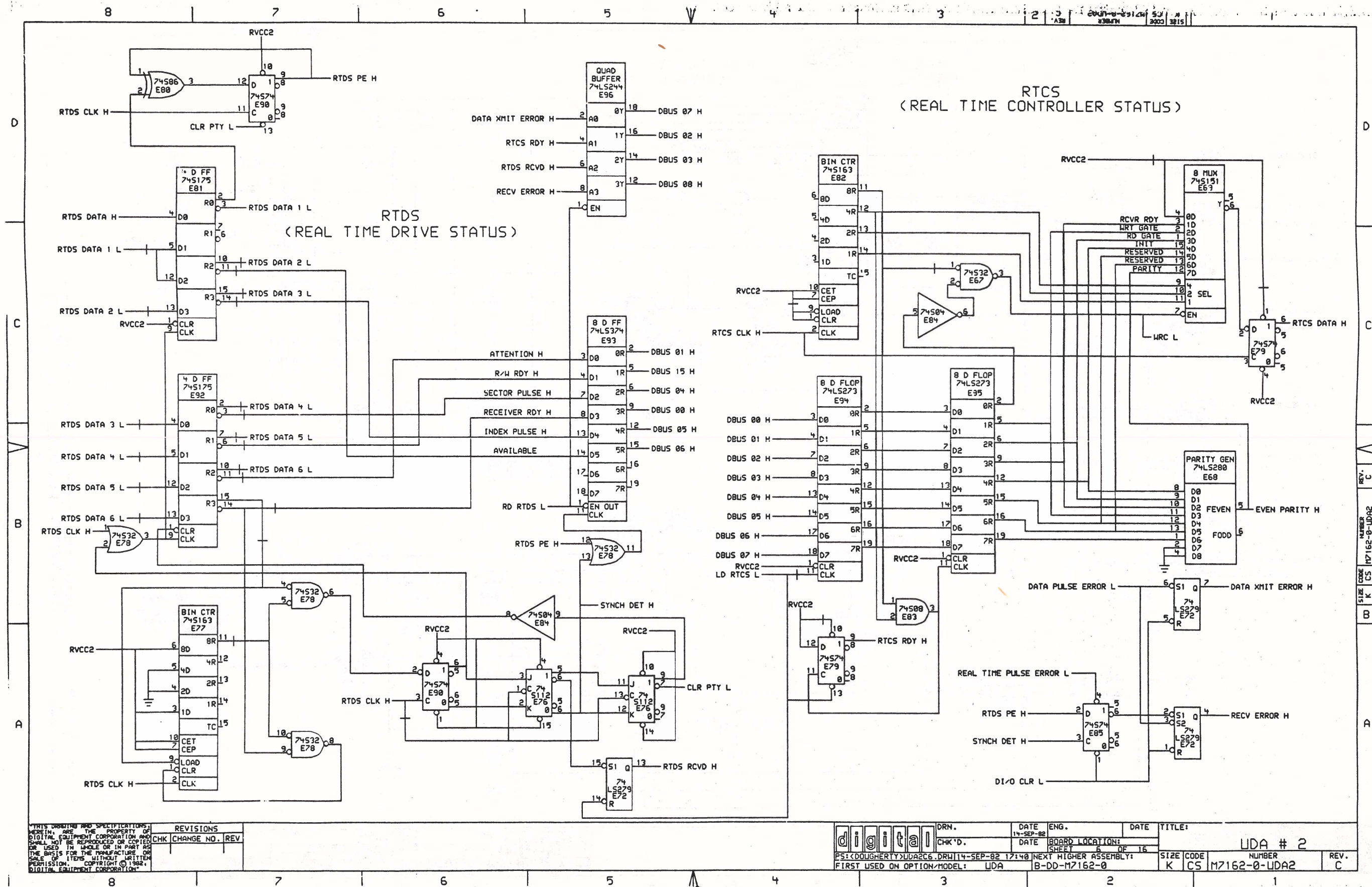


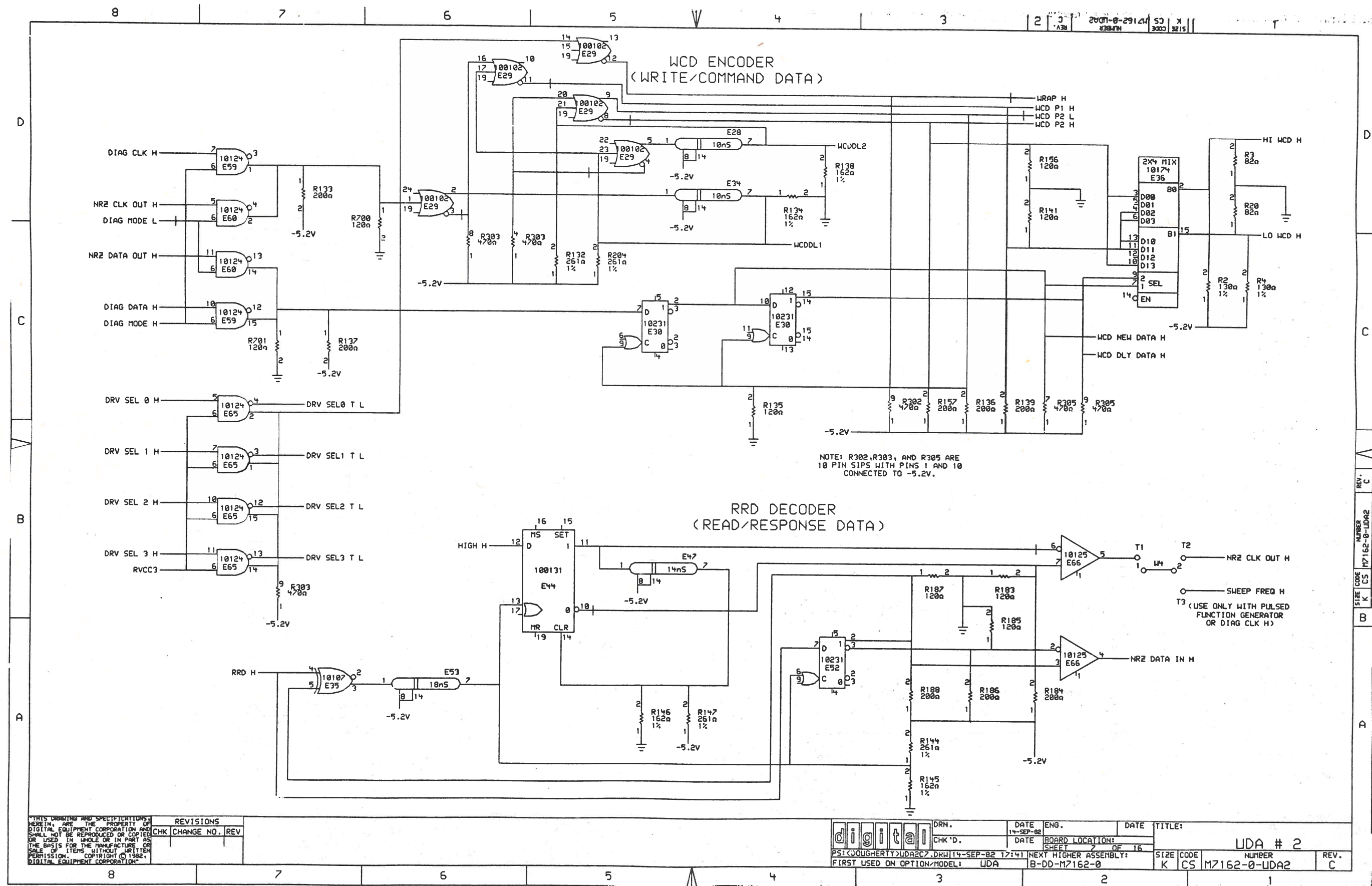


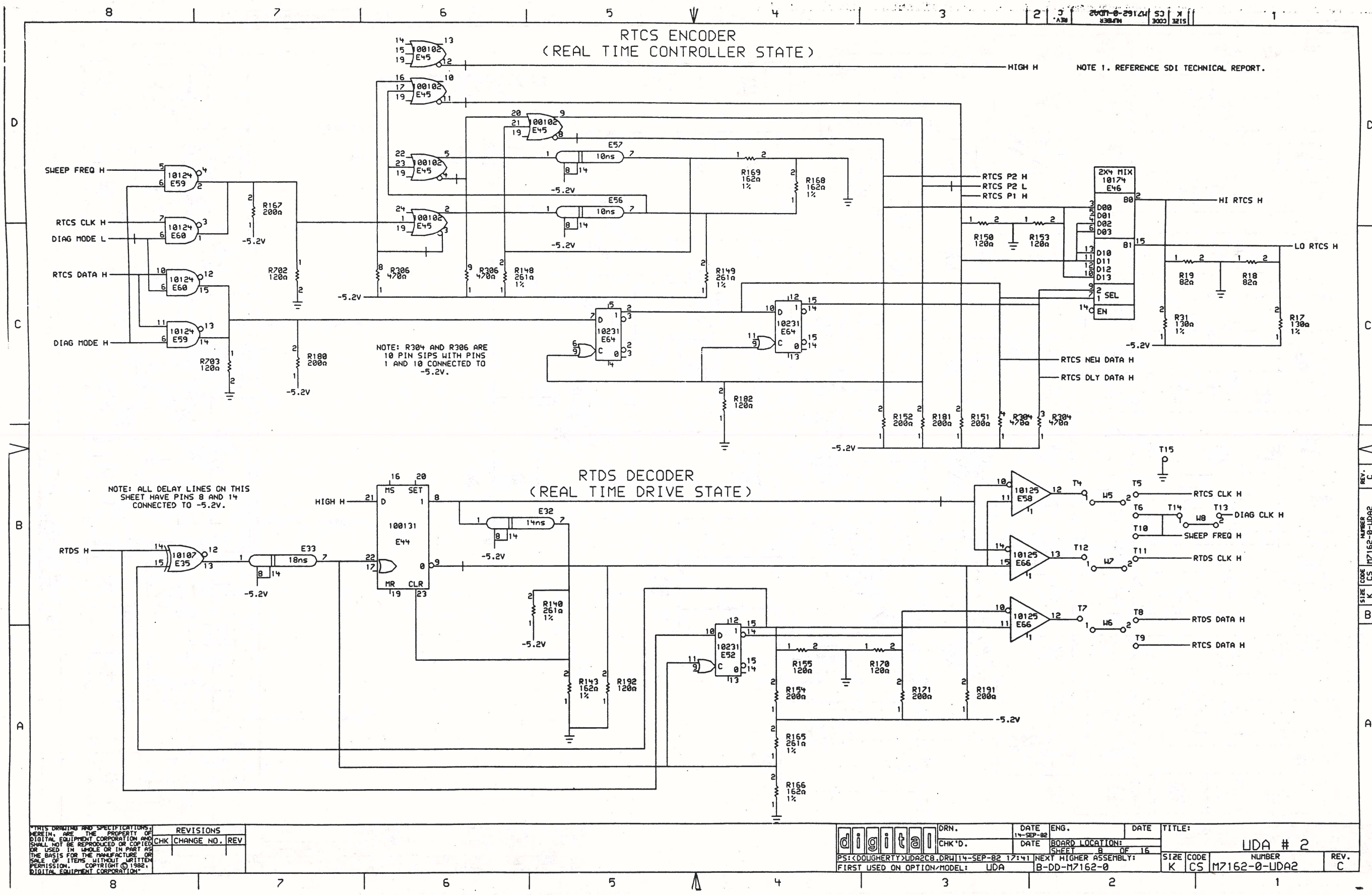








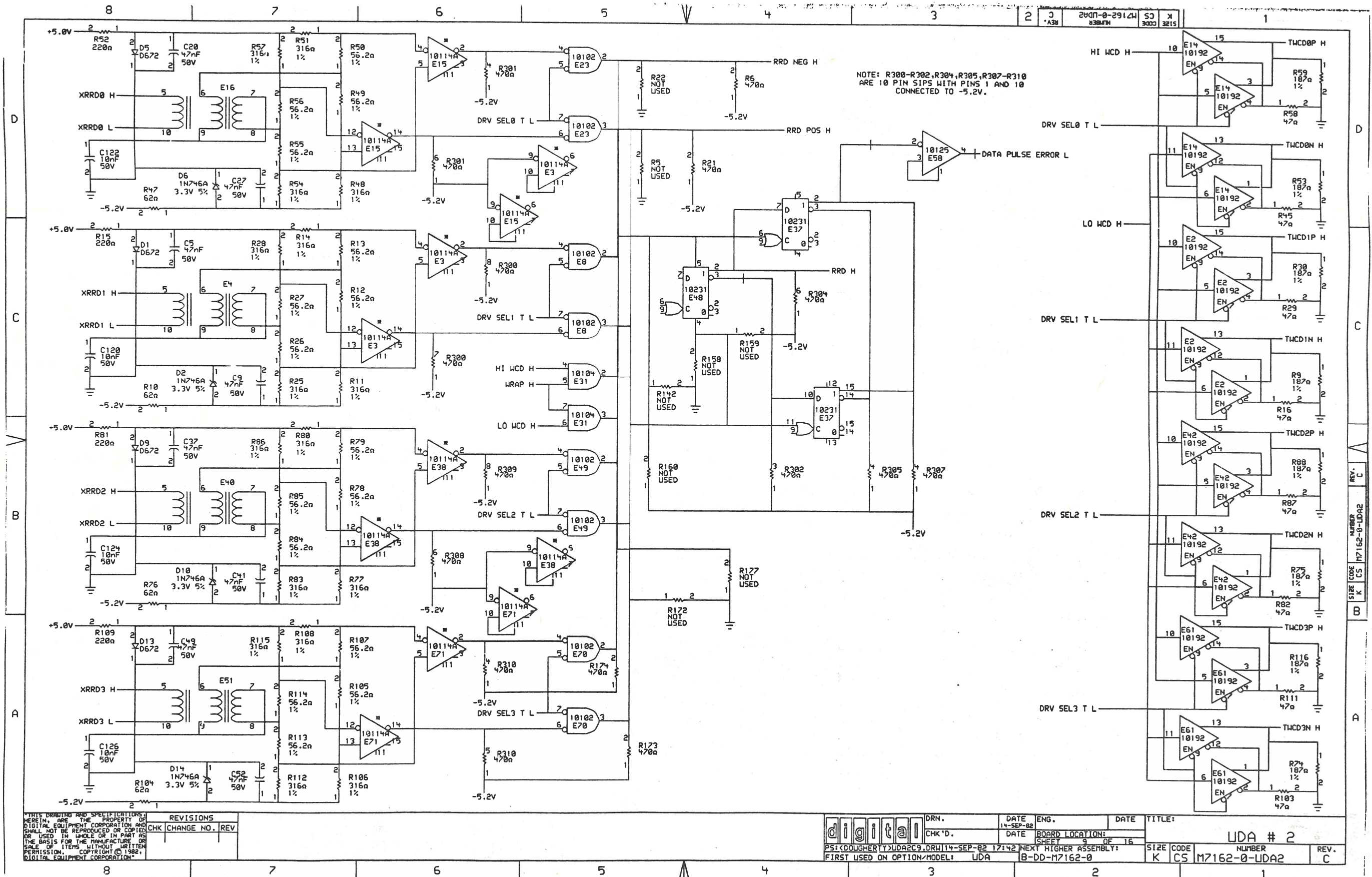




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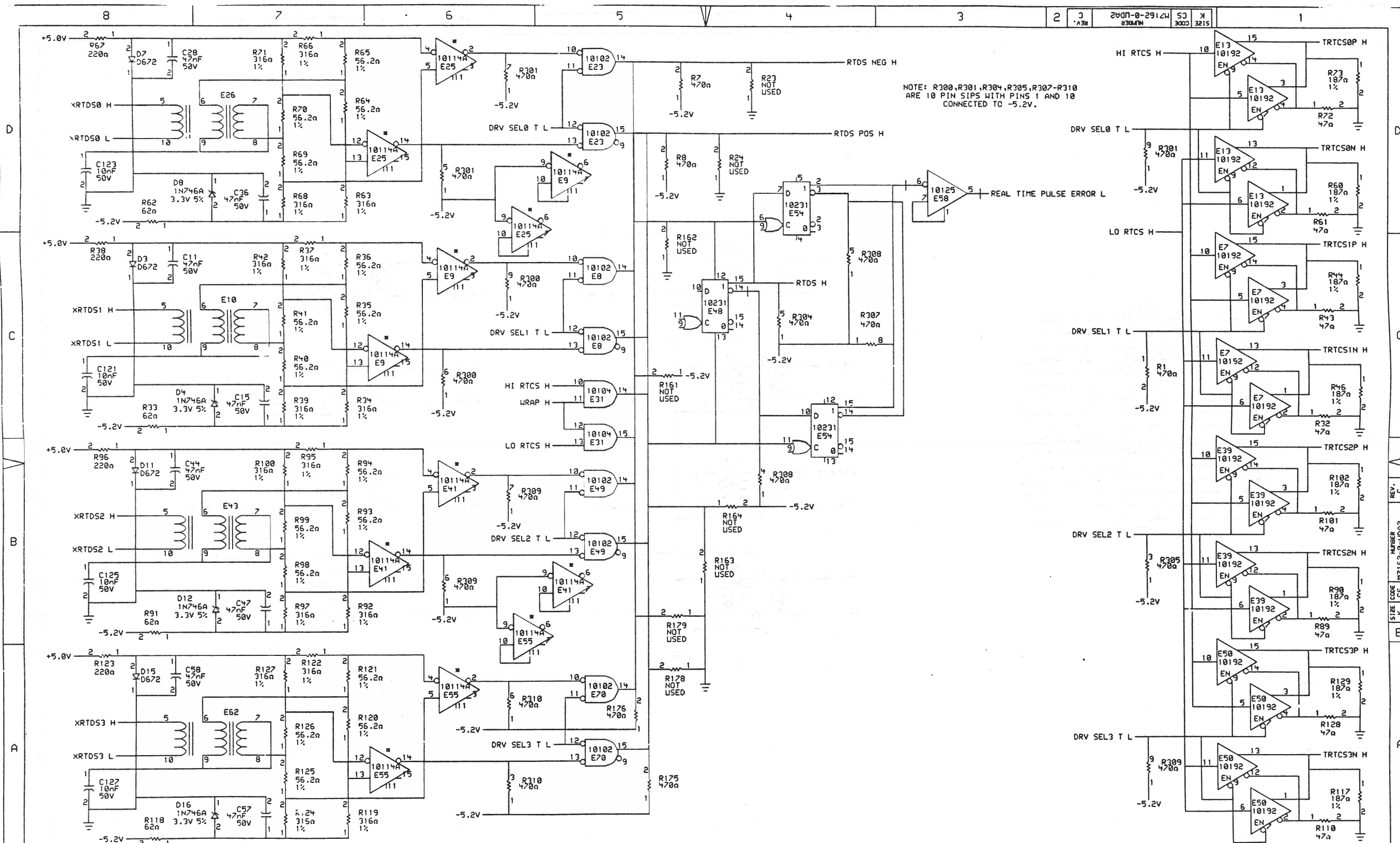
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PS: DOUGHERTY\UDA2CB.DRW\14-SEP-82 17:41 NEXT HIGHER ASSEMBLY:		SIZE CODE		NUMBER	REV.
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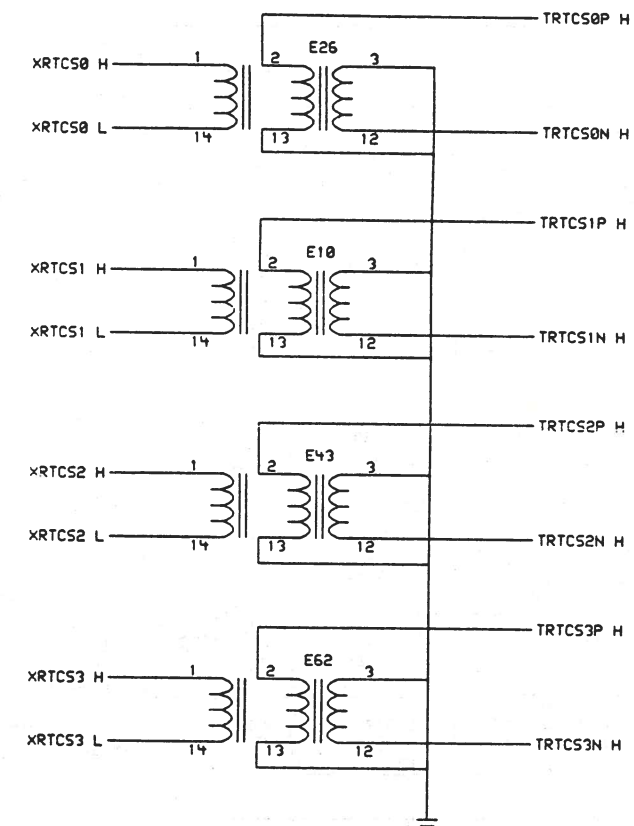


NOTE: R300, R301, R304, R305, R307-R310
ARE 10 PIN SIPS WITH PINS 1 AND 10
CONNECTED TO -5.2V.

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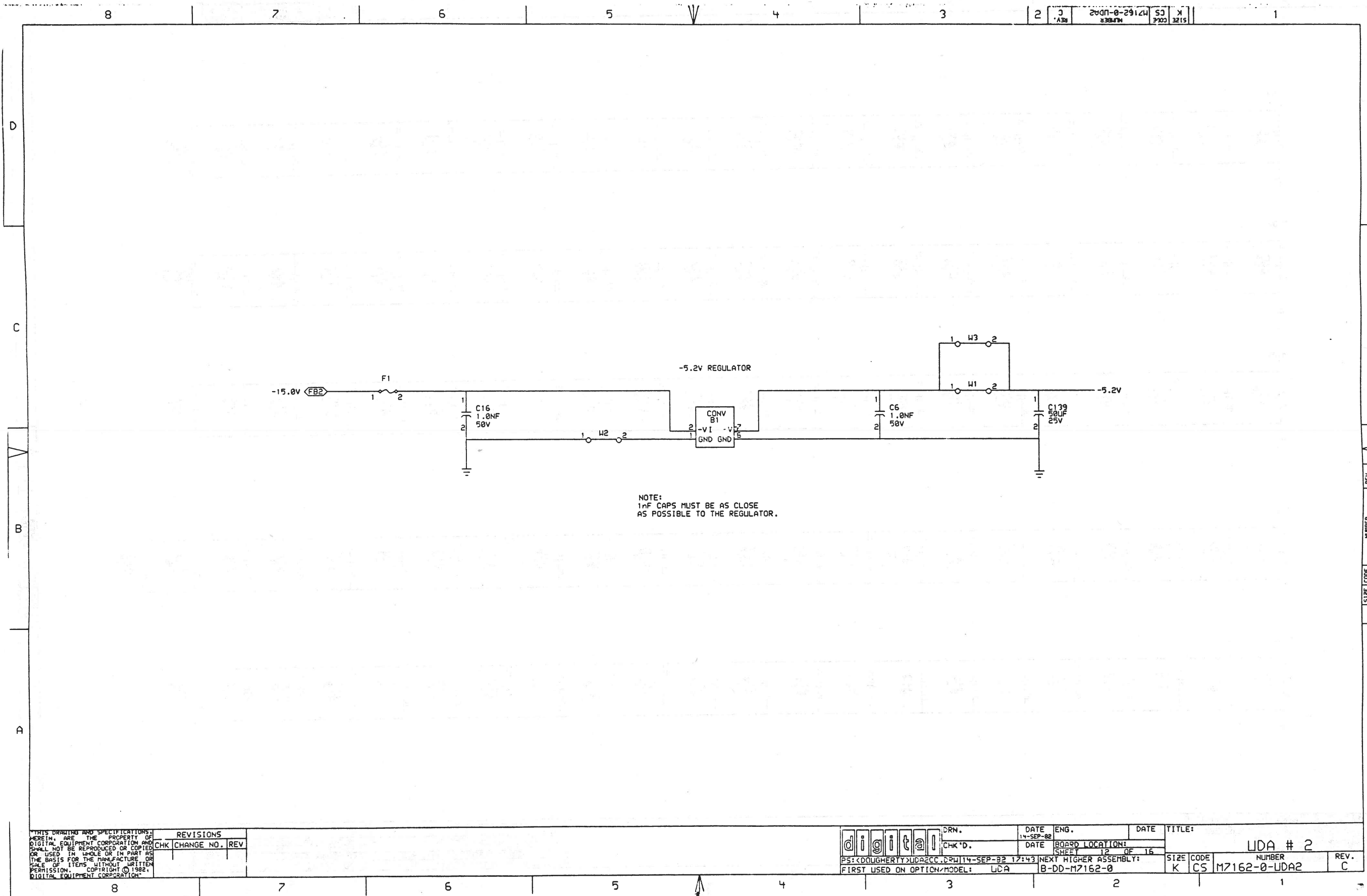


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digital	DRN.	DATE 14-SEP-82	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION: SHEET 11 OF 16		
PS: DOUGHERTY UDA2C3.3PW 14-SEP-82 12:43 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION/MODEL: UDA B-DD-M7162-0					UDA # 2 SIZE CODE NUMBER REV. K CS M7162-0-UDA2 C



NOTE:
1nF CAPS MUST BE AS CLOSE
AS POSSIBLE TO THE REGULATOR.

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REVISIONS		
CHK	CHANGE NO.	REV

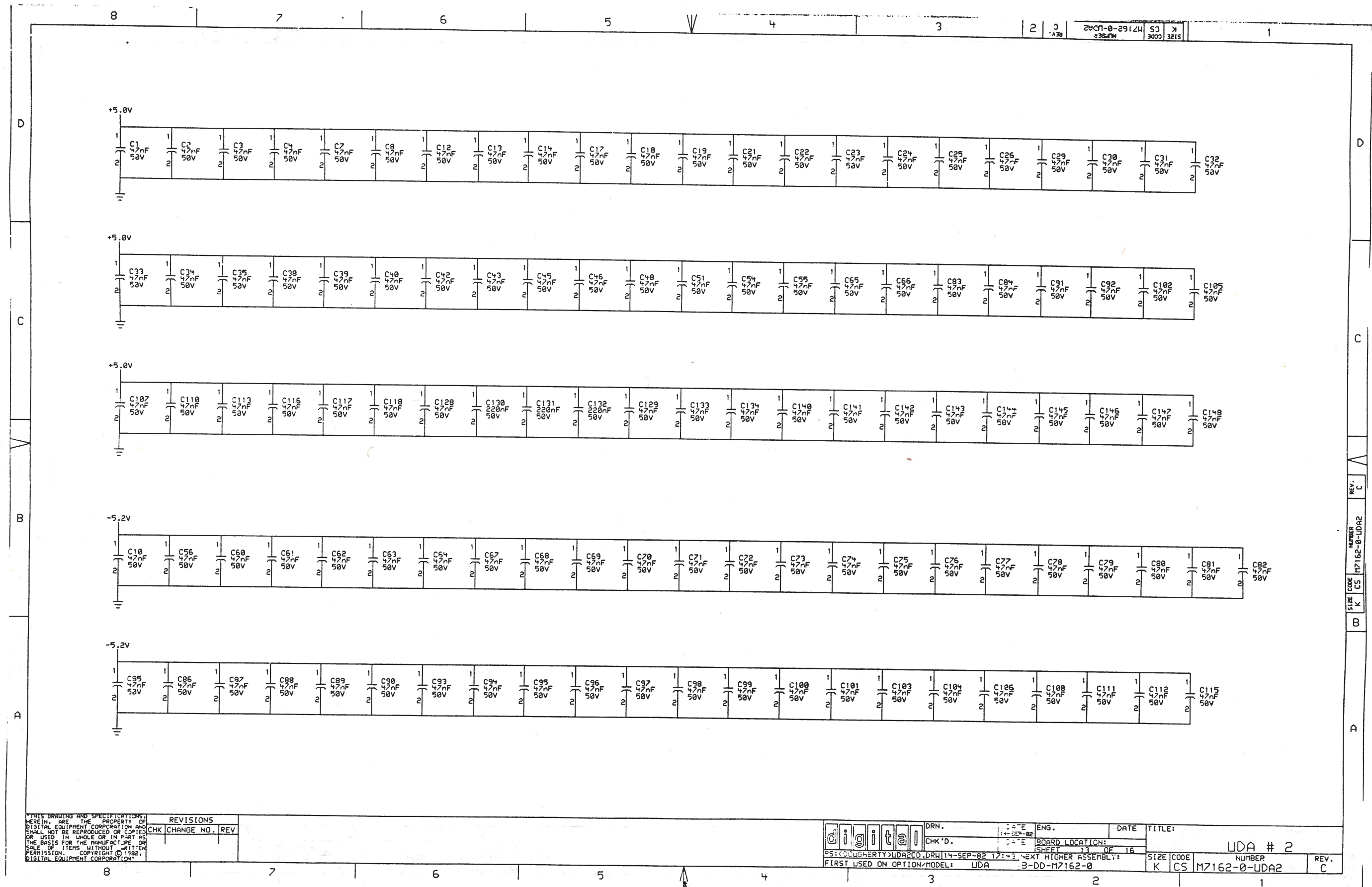
digital

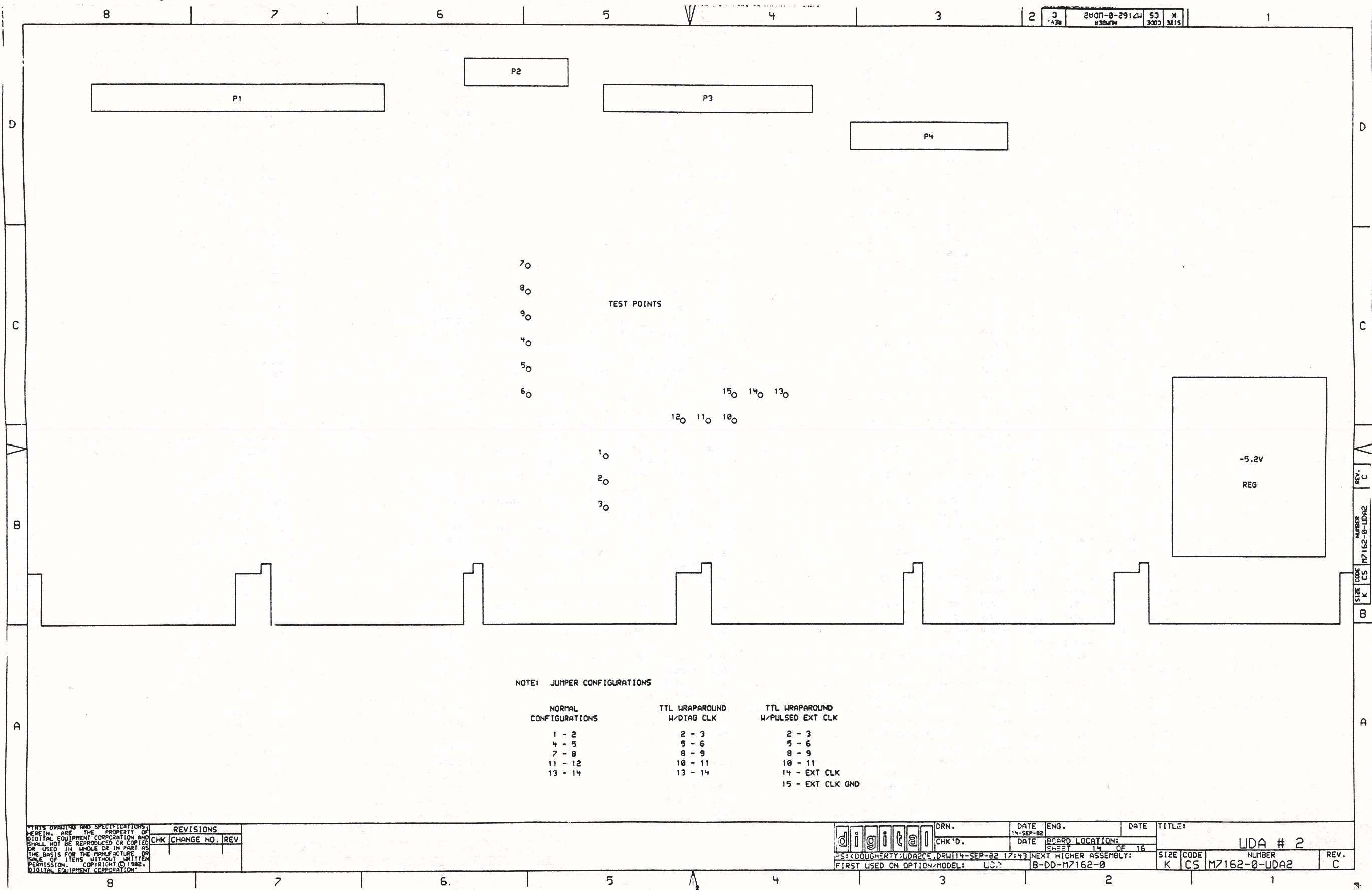
DRN.	DATE	ENG.	DATE	TITLE
CHK'D.	14-SEP-82			

PS: <DOUGHERTY>UDA2CC.DRW	14-SEP-82 12:43	NEXT HIGHER ASSEMBLY:	SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: UDA	B-DD-M7162-0		K	CS	M7162-0-UDA2	C

UDA # 2

16





NOTE: JUMPER CONFIGURATIONS

NORMAL CONFIGURATIONS	TTL WRAPAROUND W/DIAG CLK	TTL WRAPAROUND W/PULSED EXT CLK
1 - 2	2 - 3	2 - 3
4 - 5	5 - 6	5 - 6
7 - 8	8 - 9	8 - 9
11 - 12	10 - 11	10 - 11
13 - 14	13 - 14	14 - EXT CLK
		15 - EXT CLK GND

REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET 14 OF 16	UDA # 2
PS: <DOUGHERTY> UDA2.CE.DRW 14-SEP-82 17:43 NEXT HIGHER ASSEMBLY:					SIZE CODE NUMBER
FIRST USED ON OPTION/MODEL: LCC B-DD-M7162-0					K CS M7162-0-UDA2
					REV. C

8	7	6	5	4	3	2	1
Vertical location (A-D)		Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)		Horizontal location (1-8)			
KEY:		SS-VH,D		Schematic Sheet			
+12.0V		1-D1,L					
+15.0V		1-D2,R <CU1>					
+5.0V		1-A4,R 1-C1,L 1-C4,D 5-B3,D 5-B4,D 9-A8,R					
		9-B8,R 9-C8,R 9-D8,R 10-A8,R 10-B8,R 10-C8,R 10-D8,R 13-C8,D					
		13-C8,D 13-D8,D 1-C2,R <AA2> 1-C2,R <BA2> 1-C2,R <CA2>					
		1-C2,R <DA2> 1-C2,R <EA2> 1-C2,R <FA2>					
-15.0V		12-C7,R <FB2>					
-5.2V		7-A2,D 7-A5,D 7-B4,R 7-B7,D 7-C1,R 7-C6,R					
		7-C7,D 7-C7,D 8-A3,L 8-A5,D 8-B4,R 8-C2,R 8-C7,D 8-C7,D					
		8-C7,R 9-A6,D 9-A6,D 9-A8,R 9-B3,D 9-B6,D 9-B8,R					
		9-C4,D 9-C6,D 9-C6,D 9-C8,R 9-D4,D 9-D4,D 9-D6,D 9-D6,D					
		9-D8,R 10-A2,D 10-A6,R 10-A6,R 10-A8,R 10-B2,D 10-B4,L 10-B6,D					
		10-B6,D 10-B8,R 10-C2,D 10-C4,D 10-C5,L 10-C6,D 10-C6,D 10-C8,R					
		10-D2,D 10-D5,D 10-D5,D 10-D6,D 10-D6,D 10-D8,R 12-C2,L 13-A8,D					
		13-B8,D					
BA00 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R					
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R					
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA01 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R					
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R					
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA02 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R					
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R					
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA03 H		3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R					
		4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R					
		4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA04 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA05 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA06 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA07 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA08 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA09 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R					
		4-D4,R 4-D5,R 4-D5,R 4-D6,R 4-D7,R 4-D8,R					
BA10 H		3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-C2,R 4-C2,R 4-C3,R					
		4-C4,R 4-C5,R 4-C5,R 4-C6,R 4-C7,R 4-C8,R					
BA11 H		3-C2,L 3-C3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R					
		4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-C2,R 4-C2,R 4-C3,R					
		4-C4,R 4-C5,R 4-C5,R 4-C6,R 4-C7,R 4-C8,R					
BUS BG4 IN H		1-A5,R <DS2>					
BUS BG4 OUT H		1-A5,L <DT2>					
BUS BG5 IN H		1-A5,R <DP2>					
BUS BG5 OUT H		1-A5,L <DR2>					
BUS BG6 IN H		1-A5,R <DM2>					
BUS BG6 OUT H		1-A5,L <DN2>					
BUS BG7 IN H		1-A5,R <DK2>					
BUS BG7 OUT H		1-A5,L <DL2>					
BUS NPG IN H		1-A5,R <CA1>					
BUS NPG OUT H		1-A5,L <CB1>					
CLK BDR H		1-A2,R 1-B6,L					
CLK BDR L		1-A1,L 3-B6,R 4-A3,R 4-A8,R 4-A8,R 5-A7,R					
CLK DI0C L		1-C4,R 1-C7,R					
CLK ENB H		1-B6,L 4-A5,R					
CLK SERDES H		1-B6,L 2-A4,R 5-C8,R					
CLR PTY L		6-A5,L 6-D7,R					
CMD OUT L		1-D3,L 2-D7,R 5-C8,R					
DATA OUT L		2-C3,L 5-C4,R					
DATA PULSE ERROR L		6-B2,R 9-D3,L					
DATA RDY H		1-A8,R 5-A7,L 5-C7,L					
DATA WORD CLK L		1-A6,L 2-D7,R 5-A7,L 5-C7,L					
DATA XMIT ERROR H		6-B1,L 6-D5,R					
DBUS 00 H		1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L					
		5-B5,R 5-C5,L 6-C4,R 6-C5,L					
DBUS 01 H		1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L					
		5-B5,L 5-B5,R 6-B4,R 6-C5,L					
DBUS 02 H		1-D5,R 1-D7,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L					
		5-B5,L 5-B5,R 6-B4,R 6-D5,L					
DBUS 03 H		1-D5,R 1-D7,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L					
		5-B5,L 5-B5,R 6-B4,R 6-D5,L					
DBUS 04 H		1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R					
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-C5,L					
DBUS 05 H		1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R					
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L					
DBUS 06 H		1-D5,R 1-D7,R 3-C7,R 3-D2,R 3-D4,R 3-D5,L					
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L					
DBUS 07 H		1-D5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R					
		5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-D5,L					
DBUS 08 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R					
		5-B6,R 5-C1,L 5-C6,L 6-D5,L					
DBUS 09 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R					
		5-B1,L 5-B6,L 5-B6,R					
DBUS 10 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R					
		5-B1,L 5-B6,L 5-B6,R					
DBUS 11 H		1-B5,R 1-D7,R 3-C2,R 3-C4,R 3-C5,L 3-C7,R					
		5-B1,L 5-B6,L 5-B6,R					
DBUS 12 H		1-B5,R 1-D7,R 3-C5,L 3-C7,R 5-B1,L 5-C6,R					
		5-D6,L					
DBUS 13 H		1-B5,R 1-D7,R 3-B5,L 3-B7,R 5-B1,L 5-C6,R					
		5-D6,L					
DBUS 14 H		1-B5,R 1-D7,R 3-B5,L 3-B7,R 5-B1,L 5-C6,R					
		5-D6,L					
DBUS 15 H		1-B5,R 1-D7,R 3-B5,L 3-B7,R 5-B1,L 5-C6,R					
		5-D6,L 6-C5,L					
DI/O CLR L		1-D3,L 6-A2,R					
DIAG CLK H		1-B4,L 7-D8,R 8-B1,L					
DIAG DATA H		1-B4,L 7-C8,R					
DIAG MODE H		1-C4,L 7-C8,R 8-C8,R					
DIAG MODE L		1-C4,L 7-D8,R 8-C8,R					
DLY UPROC H		1-A2,R 1-A7,R 4-A8,R					
DLY UPROC L		1-A1,L 4-A3,R 4-A8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H		1-D5,L 7-B8,R					
DRV SEL 3 H		1-D5,L 7-B8,R					
DRV SEL 0 L		1-D5,L 7-C8,R					
DRV SEL 1 L		1-D5,L 7-B8,R					
DRV SEL 2 L		1-D5,L 7-B8,R					
DRV SEL 3 L		1-D5,L 7-B8,R					
DRV SEL 0 H		1-D5,L 7-C8,R					
DRV SEL 1 H		1-D5,L 7-B8,R					
DRV SEL 2 H							

	8	7	6	5	4	3	2	1
D	LD DBAR L 1-B6,L 3-A4,R			RTCS RDY H 1-A8,R 6-A3,L 6-D5,R		XRRD2 L 9-B8,R 11-C6,L		
	LD DCR L 1-C5,R 1-C6,L			RTDS CLK H 6-A6,R 6-A8,R 6-B8,R 6-D8,R 8-B2,L		XRRD3 H 9-A8,R 11-C7,R		
	LD ECC L 2-B6,L 5-C4,R			RTDS DATA 1 L 6-C8,R 6-D7,L		XRRD3 L 9-A8,R 11-C6,L		
	LD RTCS L 1-C6,L 6-B4,R			RTDS DATA 2 L 6-C7,L 6-C8,R		XRTCS0 H 11-B7,R 11-C3,R		
	LD SERDES L 1-B6,L 5-C8,R			RTDS DATA 3 L 6-C7,L 6-C8,R		XRTCS0 L 11-B6,L 11-C3,R		
	LD UBAR L 1-B6,L 3-B3,R			RTDS DATA 4 L 6-B8,R 6-C7,L		XRTCS1 H 11-C3,R 11-C7,R		
	LED 1 L 1-B3,L 5-A7,R			RTDS DATA 5 L 6-B7,L 6-B8,R		XRTCS1 L 11-C3,R 11-C6,L		
	LED 2 L 1-B3,L 5-A7,R			RTDS DATA 6 L 6-B7,L 6-B8,R		XRTCS2 H 11-B3,R 11-C7,R		
	LED 4 L 1-B3,L 5-A7,R			RTDS DATA H 6-D8,R 8-B2,L		XRTCS2 L 11-B3,R 11-C6,L		
	LED 8 L 1-B3,L 5-A7,R			RTDS H 8-B8,R 10-C4,L		XRTCS3 H 11-B3,R 11-C7,R		
	LO RTCS H 8-C1,L 10-B5,R 10-D2,R			RTDS NEG H 10-D4,L		XRTCS3 L 11-B3,R 11-C6,L		
	LO WCD H 7-D1,L 9-B5,R 9-D2,R			RTDS PE H 6-A3,R 6-B5,R 6-D7,L		XRTDS0 H 10-D8,R 11-B7,R		
	LOPRTY IN H 3-B5,L 4-B8,R			RTDS POS H 10-D4,L		XRTDS0 L 10-D8,R 11-B6,L		
	LOPRTY OUT H 3-B7,R 4-C7,L			RTDS RCVD H 1-A8,R 6-A5,L 6-D5,R		XRTDS1 H 10-C8,R 11-B7,R		
	NRZ CLK OUT H 5-A7,L 5-D8,R 7-B1,L 7-D8,R			RVCC1 1-C2,L 2-B3,D 2-D7,D 4-A3,D 4-A3,D 4-A5,R		XRTDS1 L 10-C8,R 11-B6,L		
	NRZ DATA IN H 5-A7,L 5-D8,R 7-A2,L					XRTDS2 H 10-B8,R 11-C7,R		
	NRZ DATA OUT H 5-B7,L 7-C8,R			RVCC2 1-C1,L 6-A5,R 6-A6,D 6-A8,R 6-B3,R 6-B4,D		XRTDS2 L 10-B8,R 11-C6,L		
	ODD PRTY H 1-B4,L 3-A7,R 3-B7,R					XRTDS3 H 10-A8,R 11-C7,R		
	OVERRUN H 1-A7,R 5-C7,L			RVCC3 1-C1,L 7-B8,R		XRTDS3 L 10-A8,R 11-C6,L		
	RAM 00 H 3-B7,R 3-D6,R 3-D7,L 4-C1,L			SD010 H 5-C3,L		XWCD0 H 11-B7,R 11-C5,R		
	RAM 01 H 3-B7,R 3-D6,R 3-D7,L 4-C2,L			SD016 H 5-A7,L 5-B4,R		XWCD0 L 11-B6,L 11-C5,R		
	RAM 02 H 3-A7,R 3-D6,R 3-D7,L 4-C3,L			SD016/10 H 5-A7,L 5-B8,R		XWCD1 H 11-C5,R 11-C7,R		
C	RAM 03 H 3-A7,R 3-D6,R 3-D7,L 4-C3,L			SERDES ENABLE H 1-D3,L 5-B2,R 5-B8,R		XWCD1 L 11-C5,R 11-C6,L		
	RAM 04 H 3-A7,R 3-D6,R 3-D7,L 4-C4,L			SERDES10 EN H 1-C2,L 5-C4,R		XWCD2 H 11-B5,R 11-C7,R		
	RAM 05 H 3-A7,R 3-D6,R 3-D7,L 4-C5,L			SET IOC H 1-C3,R 1-C7,R		XWCD2 L 11-B5,R 11-C6,L		
	RAM 06 H 3-A7,R 3-C6,R 3-D7,L 4-C6,L			STROBE ECC H 2-B4,L 5-B2,R 5-C4,R		XWCD3 H 11-B5,R 11-C7,R		
	RAM 07 H 3-A7,R 3-C6,R 3-C7,L 4-C6,L			SWEEP FREQ H 7-B1,L 8-B2,L 8-D8,R		XWCD3 L 11-B5,R 11-C6,L		
	RAM 08 H 3-A7,R 3-C6,R 3-C7,L 4-D1,L			SYNCH DET H 6-A3,R 6-B5,L				
	RAM 09 H 3-A7,R 3-C6,R 3-C7,L 4-D2,L			TRTCS0N H 10-D1,L 11-C2,L				
	RAM 10 H 3-A7,R 3-C6,R 3-C7,L 4-D3,L			TRTCS0P H 10-D1,L 11-D2,L				
	RAM 11 H 3-A7,R 3-C6,R 3-C7,L 4-D3,L			TRTCS1N H 10-C1,L 11-C2,L				
	RAM 12 H 3-A7,R 3-C6,R 3-C7,L 4-D4,L			TRTCS1P H 10-C1,L 11-C2,L				
	RAM 13 H 3-A7,R 3-B6,R 3-B7,L 4-D5,L			TRTCS2N H 10-B1,L 11-B2,L				
	RAM 14 H 3-A7,R 3-B6,R 3-B7,L 4-D6,L			TRTCS2P H 10-B1,L 11-C2,L				
	RAM 15 H 3-A7,R 3-B6,R 3-B7,L 4-D6,L			TRTCS3N H 10-A1,L 11-B2,L				
	RAM CS L 4-A4,L			TRTCS3P H 10-A1,L 11-B2,L				
	RAM PE L 1-A8,R 3-A5,L			TWCD0N H 9-D1,L 11-C4,L				
	RAM WE L 4-A4,L			TWCD0P H 9-D1,L 11-D4,L				
B	RD BUFFER L 1-B6,L 3-B6,R			TWCD1N H 9-C1,L 11-C4,L				
	RD ECC L 2-C2,L 5-C4,R			TWCD1P H 9-C1,L 11-C4,L				
	RD ECC RSU L 1-B6,L 5-B2,R			TWCD2N H 9-B1,L 11-B4,L				
	RD MODE H 1-D3,L 2-C3,R 5-C8,R			TWCD2P H 9-B1,L 11-C4,L				
	RD RTDS L 1-C6,L 6-B5,R			TWCD3N H 9-A1,L 11-B4,L				
	RD SERDES L 1-B6,L 5-B5,R 5-B6,R 5-C8,R			TWCD3P H 9-A1,L 11-B4,L				
	READ H 3-A6,R 3-A7,R 3-B7,R 3-B7,R 4-A5,L 4-A5,R			UPROC H 3-C2,R 4-A3,L 4-A6,R 4-A8,R				
	READ L 3-A7,R 3-B7,R 4-A5,L 4-A5,R			UPROC L 2-A4,R 3-A4,R 4-A3,L 4-A6,R 4-A8,R				
	REAL TIME PULSE ERROR L 6-A2,R 10-D3,L			WCD DLY DATA H 7-C2,L				
	RECV ERROR H 1-B8,R 6-A1,L 6-D5,R			WCD NEW DATA H 7-C2,L				
	RESET L 1-C5,R 1-C7,R			WCD P1 H 7-D2,L				
	RRD H 7-A7,R 9-C4,L			WCD P2 H 7-D2,L				
	RRD NEG H 9-D4,L			WCD P2 L 7-D2,L				
	RRD POS H 9-D4,L			WCDDL1 7-C4,L				
	RSGEN CLK L 2-A5,L 5-A7,L 5-C2,R			WCDDL2 7-D4,L				
	RSGEN EN L 1-D3,L 2-B6,R			WRAP H 7-D2,L 9-C5,R 10-C5,R				
	RTCS CLK H 6-C4,R 8-B2,L 8-D8,R			WRC L 6-C2,L				
	RTCS DATA H 6-C1,L 8-A2,L 8-C8,R			WRT ECC L 2-C3,L 5-A4,R 5-B2,R 5-C4,R				
	RTCS DLY DATA H 8-C2,L			XRRD0 H 9-D8,R 11-B7,R				
	RTCS NEW DATA H 8-C2,L			XRRD0 L 9-D8,R 11-B6,L				
	RTCS P1 H 8-D3,L			XRRD1 H 9-C8,R 11-B7,R				
	RTCS P2 H 8-D3,L			XRRD1 L 9-C8,R 11-B6,L				
	RTCS P2 L 8-D3,L			XRRD2 H 9-B8,R 11-C7,R				

