

**BTC** UDA50-0-1

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

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**FIELD MAINTENANCE PRINT SET**

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**TABLE OF CONTENTS**

DWG. NUMBER

DESCRIPTION

*D-UA-UDA50-0-0	ADAPTER , UNIBUS DISK
*K-PL-UDA50-0-DBP	ADAPTER, UNIBUS DISK
*B-DD-M7161-0	UDA #1
*D-UA-M7161-0-0	UDA #1
*K-PL-M7161-0-DBP	UDA #1
:D-CS-M7161-0-UDA1	UDA #1
* B-DD-M7162-0	UDA #2
* D-UA-M7162-0-0	UDA #2
* K-PL-M7162-0-DBP	UDA #2
* D-CS-M7162-0-UDA2	UDA #2
B-DD-M7485-0	UDA PR
D-UA-M7485-0-0	UDA PR
K-PL-M7485-0-DBP	UDA PR
K-CS-M7485-0-1	UDA PR
B-DD-M7486-0	UDA SI
D-UA-M7486-0-0	UDA SI
K-PL-M7486-0-DBP	UDA SI
K-CS-M7486-0-1	UDA SI

UNIT VARIATIONS COVERED BY THIS PRINT SET

UDA50-00 \*  
UDA50-A

**UDA50**  
**Field Maintenance**  
**Print Set**

**Digital Equipment**  
**Corporation**

**Print Set Part Number MP-01331**

\*NOTE: THESE DRAWINGS AND PARTS ARE INACTIVE.

<b>REVISION HISTORY</b>	<b>REV. A</b>	<b>B</b>		<b>DRN.</b> <i>K. Jamo</i>	<b>DATE</b> 23 FEB 82	<b>TITLE</b> <b>digital</b>  <b>ADAPTER, UNIBUS DISK</b>	
	<b>ECO NUMBER</b>	RELEASED TO ECO CONTROL AT REV A	UDA50 - CX0006 API7FEB84 B BLACKLEDGE <i>Robert C. Gallagher</i>	<b>CHK'D.</b> <i>W. Main</i>	<b>DATE</b> 23 FEB 82		
	<b>DATE</b>		3043 RPM 29 FEB 84	<b>DES. ENR.</b> <i>M. A. Richardson</i>	<b>DATE</b> 23 JUN 82		
				<b>RESP. ENG.</b> <i>M. A. Richardson</i>	<b>DATE</b> 23 JUN 82		
				<b>FIELD SERVICE</b> <i>R. W. Scanlin</i>	<b>DATE</b> 23 JUN 82		
			<b>NEXT HIGHER DOC.</b>			<b>DOCUMENT NUMBER</b>	
						<b>SIZE</b> B <b>CODE</b> TC <b>NUMBER</b> UDA50-0-1 <b>REV.</b> B	<b>SHEET</b> 1 <b>OF</b> 1

REV. B  
SIZE B  
CODE TC  
NUMBER UDA50-0-1

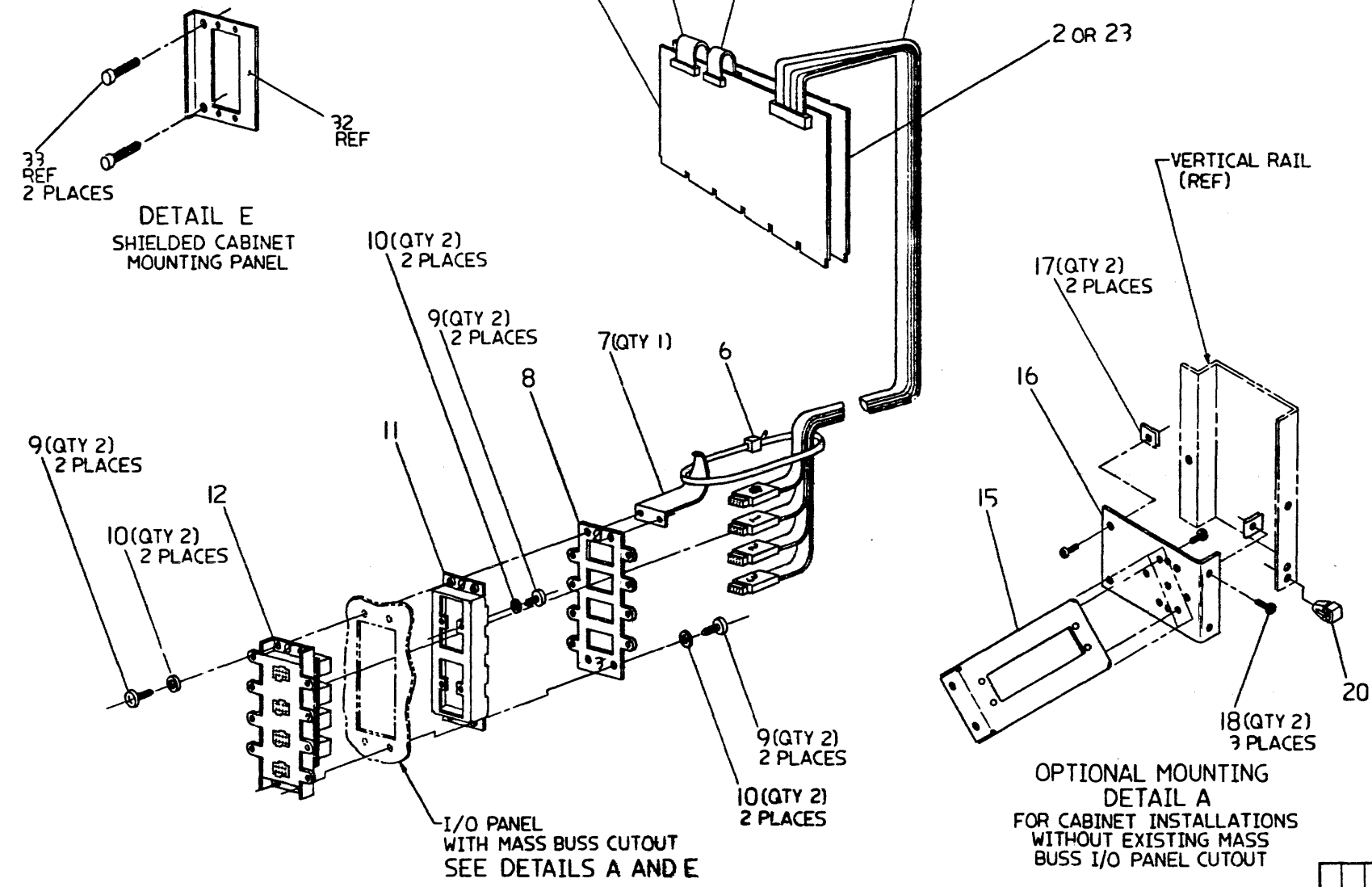


8 7 6 5 4 3 2 1

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LEGEND		
PART NO.	VARIATION	PART REV.
UDA50-00	ADAPTER, UNIBUS DISK	INA
UDA50-A	ADAPTER, UNIBUS DISK	J1

- NOTES:
- DO NOT ASSEMBLE ITEMS 6 THRU 12. THIS WILL BE FIELD INSTALLED IN AN EXISTING I/O BULKHEAD WITH AVAILABLE MASS BUSS 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.
  - DELETED PER ECO UDA50-CX005.



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

DATE	ECO NUMBER	REV.	REV.
03/08/85	007	H	H
05/08/85	008	J	J
06/08/85	009	K	K

REVISION HISTORY

ECO NUMBER    REV.    REV.

007    H    H

008    J    J

009    K    K

REVISIONS:

007    H    H    RAC 10 APR 85    M. LEWIS

008    J    J    UDA50-CX005    BC 16 OCT 85    M. LEWIS

009    K    K    UDA50-CX009    MCH 28 APR 86    R. FULLER

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	UNDER
SURFACE QUALITY	X = ± .1	TO	TO
		TO	TO
QUANTITY & VARIATION	XXX = ± .005	± .02	± .05
		± .004	± .012
THIRD ANGLE PROJECTION		DATE	TITLE
DO NOT SCALE DRAWING		10 APR 85	ADAPTER, UNIBUS DISK
REMOVE BURRS AND BREAK SHARP CORNERS		10 APR 85	DOCUMENT NUMBER
MATERIAL SEE PARTS LIST		10 APR 85	D UDA50-0-0
FINISH		10 APR 85	REV K
NEXT HIGHER DOC		SCALE NONE	

DRAWING NUMBER: UDA50-0-0

1 of 1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	00	A	QUANTITY PER VARIATION/REVISION
			REV		INA	J1	
1	D-UA-M7162-0-0	M7162-00		UDA#2 (UNIBUS DISK ADAPTER BOARD#2	1	-	
2	D-UA-M7161-0-0	M7161-YA		M7161 W BLASTED ROM'S,4-LAYER HEX	1	-	
3	C-IA-7018447-0-0	70-18447-00	B	40 PIN FLAT CABLE ASSEMBLY	1	1	
4	C-IA-7018448-0-0	70-18448-00		50 PIN FLAT CABLE ASSEMBLY	1	1	
5		17-00463-01	A	CABLE,COAX,ASSY,SI SHIELDED RIBBON	1	1	
6		90-07032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	1	1	
7	C-MD-7426095-0-0	74-26095-01		BRACKET,CABLE RETAINER	1	1	
8	C-MD-7426090-0-0	74-26090-01		MOUNT,REAR CONN.	1	1	
9		90-06011-01		SCREW,MACH PAN PHIL 4-40	12	12	
10		90-06688-00		WASHER,HELICAL SPLIT SST	12	12	
11	D-IA-7426094-0-0	74-26094-01		HOUSING,REAR SHIELD	1	1	
12	C-AD-7018454-0-0	70-18454-01		UDA BULKHEAD SUB-ASSEMBLY	1	1	
13		37-00652-01		PKG KIT OPTION UDA50 CUSTOMER	1	1	
14	SEE NOTE # 14	23-767A9-00	A	A9-01	1	1	
15	D-IA-7425425-0-0	74-25425-01		BULKHEAD,I/O UDA,RETMA MNT	1	1	
16	C-MD-7425426-0-0	74-25426-01		BRACKET,VERTICAL RAIL	1	1	
17		90-07786-00		RETAINER,U-NUT 10-32X	4	4	
18		90-09700-00		SCREW,SEMS TRUSS PHIL 10-32	6	6	
19	SEE NOTE # 19	23-990A9-00	A	A9-01	1	1	
20		90-07867-00		MOUNT, PUSH,CABLE TIE	3	3	
21	SEE NOTE # 21	EK-UDA50-UG		UDA50 CONTROLLER USER GUIDE	1	1	
22	D-UA-M7486-0-0	M7486-00		UDA SI	-	1	
23	D-UA-M7485-0-0	M7485-YA		M7485 W/BLASTED ROMS,4-LAYER HEX	-	1	
24	B-MD-7427791-0-0	74-27791-01	A	MOUNT,GROUNDING	2	-	
25		90-06634-00		WASHER,LOCK INTERNAL STEEL	2	-	
26	B-IA-7427505-0-0	74-27505-01		BRACKET,CABLE MOUNTING	1	-	
27	C-IA-7427503-0-0	74-27503-01		ANGLE,GROUNDING	1	-	
28	C-IA-7427504-0-0	74-27504-01		BRACKET,GROUNDING	1	-	
29		90-06024-01		SCREW,MACH PAN PHIL 6-32	2	-	
30		90-06558-00		NUT,HEX 6-32X .307AF CS/CAD	2	-	
31		90-06633-00		WASHER,LOCK INTERNAL STEEL	2	-	
32		74-26407-05		PANEL,DOUBLE (MASS BUS)	-	1	

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF A		DRN: R. DUCHARME		DIGITAL			
ENC	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 03-NOV-85	PARTS LIST				
RD	INITIAL	A	[A]	00,A	CHK'D: W.C.M.	ADAPTER, UNIBUS DISK				
BD	UDA50-CX001	B	[B]		DATE: 03-NOV-85					
RD	UDA50-CX002	C	[C]		DES.ENG: R. DUCHARME					
JW	UDA50-CX003	D	[D]		DATE: 03-NOV-85	DOCUMENT NUMBER				
TK	UDA50-CX004	E	[E]			SIZE	CODE	NUMBER	REV	
TK	UDA50-CX005	F	[F]		RESP.ENG.: W. MATHRANI					
ML	UDA50-CX007	H	[H]		DATE: 03-NOV-85	K	PL	UDA50-0-DBP	K	
ML	UDA50-CX008	J	[J]							
RF	UDA50-CX009	K	[K]		MFG.ENG: K. SHAHEED	RELEASE DATE: 28-APR-86				
					DATE: 03-NOV-85	RELEASE STATUS: RELEASED				
			BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #			
			UDA50	ID-UA-UDA50-0-0	IK-DD-UDA50-0-DBU	I22142K.PLS	1			

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*Rm*  
*28 APR 86*  
*20 11 21*

AUTOMATED BY VAXKPL (V1.1)

PARTS LIST

SHEET A2 OF A2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	00	A	QUANTITY PER VARIATION/REVISION
					J1	J1	
33 33		12-19534-01		SCREW, CAPTV SLOT	4-40	-	2

14 NOTE: SEE NOTE 4 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).  
19 NOTE: SEE NOTE 5 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).  
21 NOTE: SEE NOTE 3 ON ASSEMBLY DRAWING (D-UA-UDA50-0-0).

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	K

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A	B	C	D												
B-DD-M7161-0	1		UDA #1	A	B	C	D												
D-UA-M7161-0-0	2		UDA #1	A	B	B	C												
K-CS-M7161-0-UDA1	15		UDA #1	B	C	D	E												
K-PL-M7161-0-DBP	-		UDA #1	A	B	C	D												
K-PC-M7161-0-DBC	-		P.C. DESIGN DATA BASE	B	B	B	B												
		5014040-00	ETCH BOARD	B	B	B	B												
D-EC-5014040-0-0	2		ETCH CUT DRAWING	A	B	B	C												
D-MD-5014040-0-0	5		DRILL AND ETCH DRAWING	A	A	A	A												

**NOTES:**

REVISIONS		DATE	CHG NO.	REV.	A	B	C	D
	INIT							
	M7161-0001							
	M7161-0002A							
	M7161-0002B							
	M7161-0002C							
	M7161-0002D							

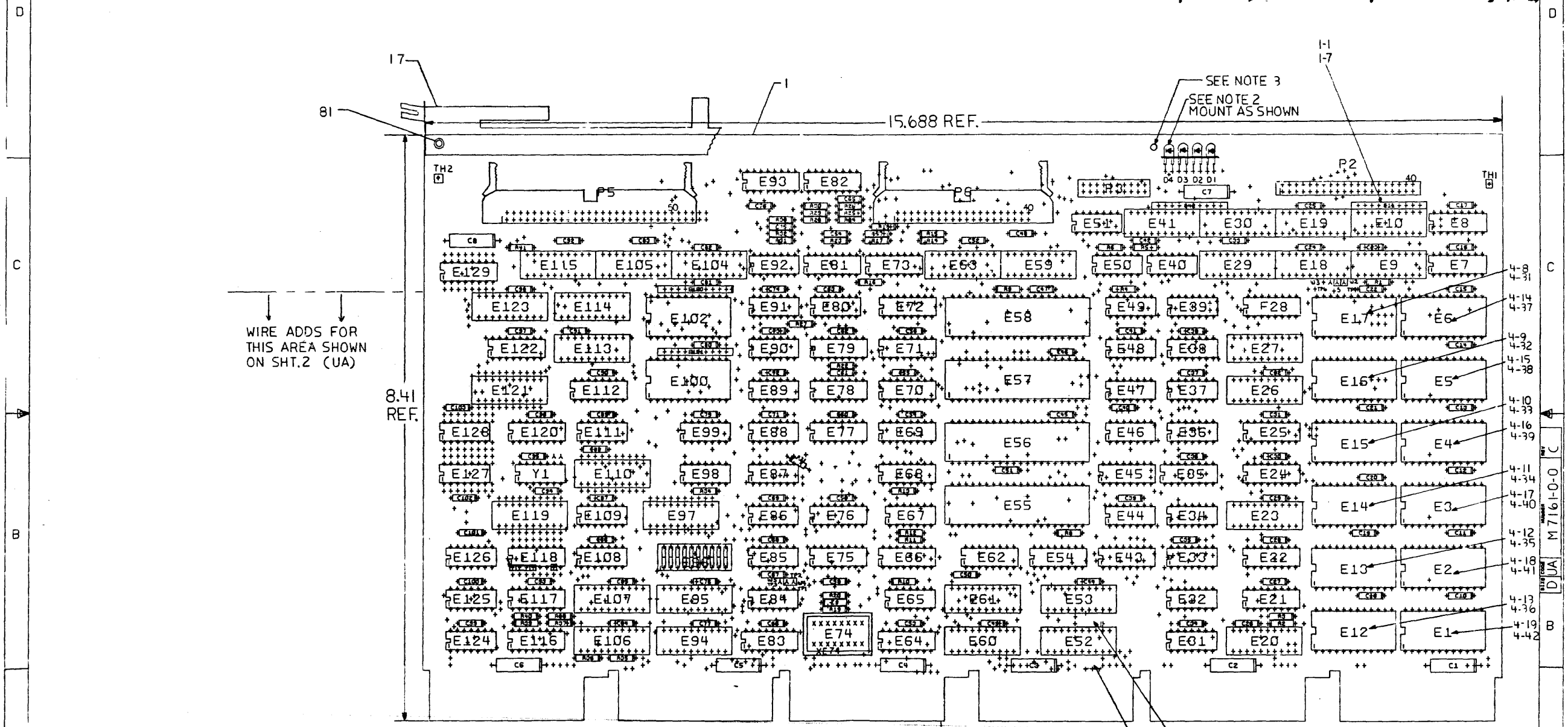
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USED ON OPTION/MODEL		DRN.	TAMARA J. #7	DATE	22-Feb-82	TITLE	UDA #1
RA80		CHK'D	M. Landry	DATE	1-19-82	SIZE	B DD
		ENG.	C. Ridgeway	DATE	2/1/82	NUMBER	M7161-0
		PROD.	D. SWIFT N.L.	DATE	1-MAR-82	REV.	D
						SHEET	1 OF 1

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WIRE ADDS FOR THIS AREA SHOWN ON SHT.2 (UA)

WIRE ADDS FOR THIS AREA SHOWN ON SHT.2 (UA)

NOTES: THE FOLLOWING ARE SPARES: R41, E39, E88, E97, E101, E103, E110, E118, E119, E121, E124, E127-E129.  
 2. MOUNT D1-D4 ON COMPONENT SIDE LONGER LEG TO RIGHT. LEAVE LEADS APPROXIMATELY .18 LONG.  
 3. DO NOT INSTALL EYELET (ITEM 81) IN POSITION SHOWN.

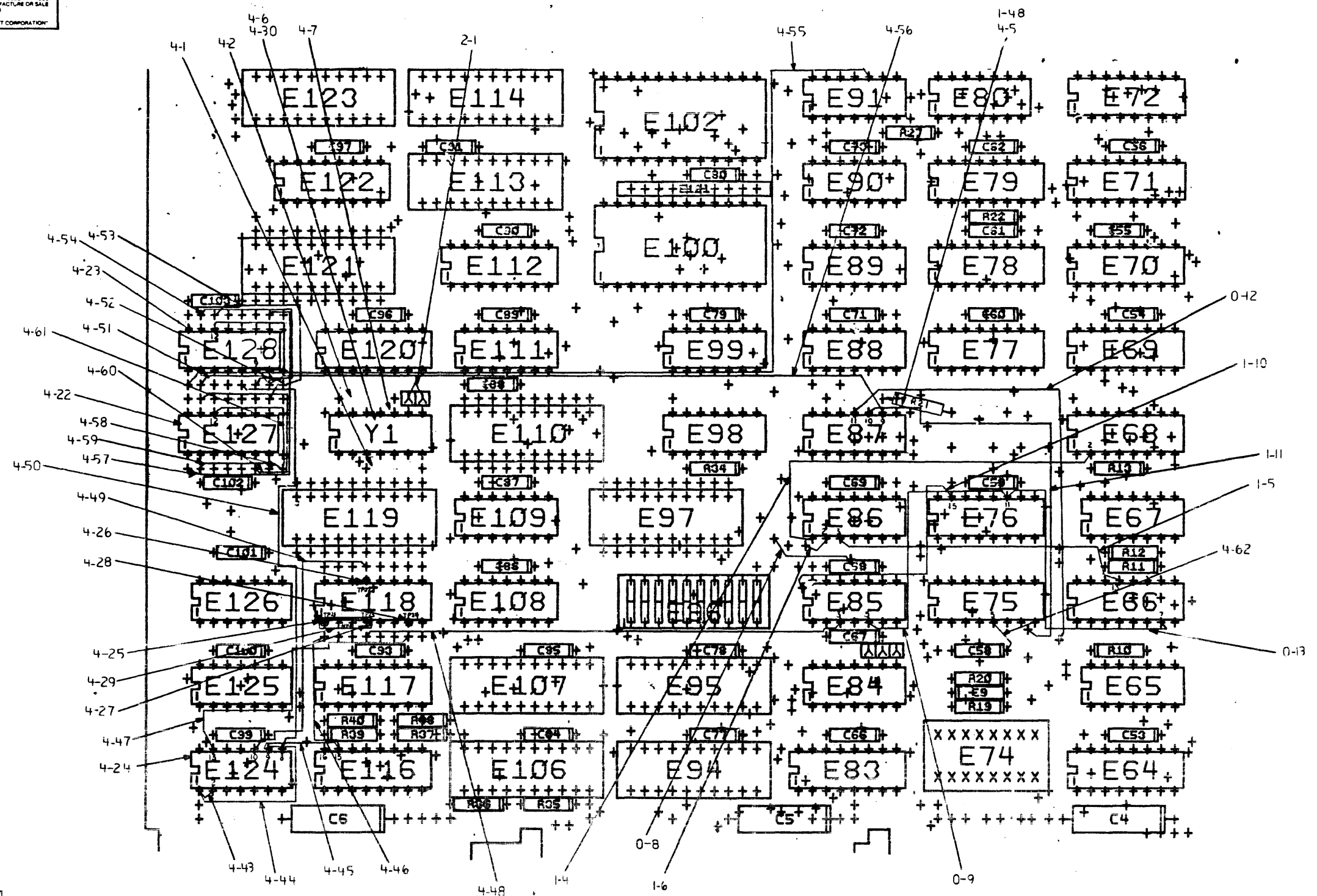
STEP	↑ Y AXIS	NA	STEP	TIMES
REPEAT	→ X AXIS	NA	STEP	TIMES

CHANGE NO	REV	A	B	C
1		M7161- CX001 R/A 18 AUG 81 CRIDGEWAY	M7161- SL 26 JUL 82 CRIDGEWAY	

ETCH REV. B
-------------

SIGNATURES		DATE	digital
DRN. P. McNeil		25 APR 82	
CHK'D. C. E. 20m		17 APR 82	TITLE UDA #1
MECH. ENG. M. Robinson		16 APR 81	
PROJ. ENG. M. Robinson		16 APR 82	
PROD. D. Swift Rm		16 APR 82	
SCALE 1.5/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 4	D UA	M7161-00	C
NEXT HIGHER ASSY. B-DD-M 7161-0			

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REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE UDA # 1

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	M7161-0-0	C
SCALE 3/1	SHEET 2 OF 4	

DUA M7161-0-0 C



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

REWORK INSTRUCTIONS-INITIAL RELEASE

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

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.

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-  
 1-36. R27-  
 1-37. R29-  
 1-38. R30-  
 1-39. R31-  
 1-40. RESISTOR R32-1302379 1302377.  
 1-41. I.C. Y1-1811660-24 1811660-16.  
 1-42. E35-1912847 1910548.  
 1-43. E68-  
 1-44. E69-  
 1-45. E70-  
 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.

ECO M7161-CX001

COMPONENT DELETES (SIDE 1)  
 1-1. DELETE E11, R NETWORK 8-1.39K, 5%, 10 PIN (1312114-00).

WIRE ADDS (SIDE 1) 30 AWG  
 1-4. FROM E86-1 TO E68-2.  
 1-5. FROM E86-3 TO E66-13.  
 1-6. FROM E86-2 TO PTH BELOW & TO LEFT OF E86-1.  
 (IF REWORK STEP 0 6 HAS BEEN DONE).

COMPONENT ADDS (SIDE 1)  
 1-7. ADD E11, R NETWORK, 9-1K, 2%, 10 PIN (1316395 02).

DUA-M7161-0-0

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DUA	M7161-0-0	C
SCALE	SHEET 3 OF 4	

TITLE UDA # 1

2782

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ECO M7161-CX004

COMPONENT DELETES

4-1.	DELETE CAPACITOR	C94 (1012784-00)
4-2.		C95 (1012784-00)
4-3.	CAPACITOR	C43 (1013466-11)
4-4.	RESISTOR	R7 (1300365-00)
4-5.	RESISTOR	R21 (1300417-00)
4-6.	OSILLATOR	Y1 (1811660-16) SAVE PART.
4-7.	IC. SOCKET	XY1 (1215006-01)
4-8.	CROM	E17 (23043F4-00)
4-9.		E16 (23044F4-00)
4-10.		E15 (23045F4-00)
4-11.		E14 (23046F4-00)
4-12.		E13 (23047F4-00)
4-13.		E12 (23048F4-00)
4-14.		E6 (23049F4-00)
4-15.		E5 (23050F4-00)
4-16.		E4 (23051F4-00)
4-17.		E3 (23052F4-00)
4-18.		E2 (23053F4-00)
4-19.	DELETE CROM	E1 (23054F4-00)

COMPONENT ADDS

4-22.	ADD COUNTER	E127 (1914451-00)
4-23.	COUNTER	E128 (1914451-00)
4-24.	74LS164	E124 (1912850-00)
4-25.	POST	TP21 (9009149-01)
4-26.		TP22
4-27.		TP24
4-28.	POST	TP24 (9009149-01)
4-29.	CLIP	W14 (1215899-00)
4-30.	OSCILLATOR	Y1 (1811660-16)
4-31.	CROM	E17 (23064F4-00)
4-32.		E16 (23065F4-00)
4-33.		E15 (23066F4-00)
4-34.		E14 (23067F4-00)
4-35.		E13 (23068F4-00)
4-36.		E12 (23069F4-00)
4-37.		E6 (23070F4-00)
4-38.		E5 (23071F4-00)
4-39.		E4 (23072F4-00)
4-40.		E3 (23073F4-00)
4-41.		E2 (23074F4-00)
4-42.	ADD CROM	E1 (23075F4-00)

WIRE ADDS SIDE 1-30AWG-AS SHOWN

4-43.	ADD WIRE FROM	E124-1	TO	E124-2
4-44.		E124-1		E124-9
4-45.		E124-9		E116-15
4-46.		E116-15		TP21
4-47.		E124-13		TP24
4-48.		E85-3		TP23
4-49.		E124-10		TP22
4-50.		E124-8		E128-5
4-51.		E128-2		E128-7
4-52.		E128-7		PTH RIGHT OF E128-7
4-53.		E128-12		PTH RIGHT OF E128-7
4-54.		E 28-6		E128-13
4-55.		E128-1		E 91-10
4-56.		E 27-8		E87-9
4-57.		E127-1		E128-8
4-58.		E 27-7		PTH RIGHT OF E127-7
4-59.		E127-7		E127-2
4-60.		E127-6		E127-13
4-61.		E127-12		PTH RIGHT OF E127-7
4-62.	ADD WIRE FROM	C 75-5	TO	C 58

AFTER COMPLETING ABOVE REWORK STEPS MARK THE MODULE CS REVD.

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE UDA #1

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
D	UA	M7161-0-0	C
SCALE	N/A	SHEET 1	OF 1

REV. C  
M7161-0-0  
DUA

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
1	1	D-MD-5014040-0-0	5014040-00	UDA NO. 1	1	1		
2	2		1012784-00	.047 MFD 50V +80-20% CER	90	90		C10-C42,C44-C69,C71-C93,C96-C103
3	3		1013466-08	680.0 MMF 50V 10% X7R CER	1	1		C9
4	4		1013466-11	*** THIS ITEM IS NOT USED ***	-	-		
5	5		1016549-00	47 MFD 10V +50-10% AL EL	8	8		C1,C2,C3,C4,C5,C6,C7,C8
6	6		1112689-00	LED .8MCD@16MA VF=5V	4	4		D1,D2,D3,D4
7	7		1209838-00	SKT,IC 16PIN DIP GOLD	1	1		XE74
8	8		1210385-01	PIN 1POS WIRE WRAP	6	6		TP1,TP2,TP3,TP4,TP5,TP6
9	9		1211164-06	SW,DIP 10POS/1PST 5VDC100MA F	1	1		E96
10	10		1212965-04	PCB,HEADER 20PIN(2X05).100CC 90D	1	1		P3
11	11		1214314-00	CONN,P+S 02SKT(1X02).100CC JUM	2	2		W2,W4
12	12		1214993-00	PCB,HEADER 40POS(2X20).100CC 90D	1	1		P2
13	13		1215006-01	*** THIS ITEM IS NOT USED ***	-	-		
14	14		1215006-06	*** THIS ITEM IS NOT USED ***	-	-		
15	15		1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	1	1		P6
16	16		1216832-03	PCB,HEADER 50POS(2X25).100CC 90D	1	1		P5
17	17		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	1		
18	18		1300229-00	100.0 .25 W 5.0 % CC	7	7		R4,R5,R6,R22,R34,R2,R12
19	19		1300316-00	470.0 .25 W 5.0 % CC	4	4		R8,R9,R13,R20
20	20		1300365-00	1.0 K .25 W 5.0 % CC	3	3		R1,R10,R19
21	21		1300417-00	*** THIS ITEM IS NOT USED ***	-	-		
22	22		1301972-00	270.0 .25 W 5.0 % CC	2	2		R3,R11
23	23		1302377-00	39.0 .25 W 5.0 % CC	7	7		R14,R17,R27,R29,R30,R31,R32
24	24		1302379-00	75.0 .25 W 5.0 % CC	6	6		R15,R16,R18,R23,R26,R28
25	25		1305125-00	383.0 .25 W 1.0 % RN55D-F10	2	2		R36,R40
26	26		1311422-00	178.0 .25 W 1.0 % RN55D-F10	4	4		R35,R37,R38,R39
27	27		1316395-02	R NETWORK 9-1.0K 2.0 % 10PIN	1	1		E11
28	28		1312929-00	62.0 .25 W 5.0 % CC	3	3		R24,R25,R33
29	29		1316395-00	R NETWORK 9-4.7K 2.0 % 10PIN	1	1		E42
30	30		1617533-00	DELAY= 250NS,STAPS 14PIN DIP	1	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	CHK'D:	C. RIDGEWAY	DATE:	11-NOV-80	TITLE	PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX					UDA #1		
CR	M7161-CX001	B	[A] 00, YA							
CR	M7161-CX002	C	[B]							
CR	M7161-CX002	C	[C]	DES.ENG:	C. RIDGEWAY	DATE:	11-NOV-80			
CR	M7161-CX002	C	[D]							
CR	M7161-CX002	C	[E]						DOCUMENT NUMBER	
CR	M7161-CX004	D	[F]	RESP.ENG.:	B. MATHRANI	DATE:	11-NOV-80			
			[G]					SIZE	CODE	NUMBER
			[H]							REV
			[I]	MFG.ENG.:	D. SWIFT	DATE:	11-NOV-80	K	PL	M7161-0-DBP
			[J]							D
			[K]							
			[L]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			[M]	D-UA-M7161-0-0		# B-DD-M7161-0		Z1748D.PLS		16
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
31	31		1618344-00	DELAY= 58NS,5TAPS	1	1		E91
32	32		1811660-16	OSCILLATOR, XTAL 17.280 MHZ	1	1		Y1
33	33		1907705-00	DEC 8881 NAND GATE-QUAD 2IN 0	1	1		E84
34	34		1910532-00	74S00 NAND GATE-QUAD 2IN	2	2		E33,E47
35	35		1910534-00	74S04 INVERTER GATE-HEX 1I	2	2		E80,E92
36	36		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	1		E90
37	37		1910537-00	74S11 AND GATE-TRIPLE 3INP	1	1		E46
38	38		1910542-00	74S64 A-O-I GATE 4-2-3-2	2	2		E44,E89
39	39		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	1		E51
40	40		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	1		E120
41	41		1910546-00	74S140 NAND GATE-DUAL 4INPU	1	1		E50
42	42		1910548-00	74S157 MUX 1 OF 2 (QUAD)	5	5		E35,E68,E69,E70,E71
43	43		1910550-00	74S174 FF-D HEX	6	6		E7,E8,E21,E22,E24,E25
44	44		1910552-00	74S194 SHIFT REG.,4BIT RIGH	2	2		E54,E62
45	45		1910950-00	74S74 FF-D DUAL (-45 VERSI	1	1		E40
46	46		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	1		E64
47	47		1911579-00	8641 TRANSCEIVER,BUS,QUA	1	1		E83
48	48		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	3	3		E73,E82,E93
49	49		1911676-00	74S139 DECODER-DUAL TWO-INP	2	2		E43,E91
50	50		1911712-00	74S51 AND-OR GATE-INVERT D	1	1		E49
51	51		1911983-00	74S133 NAND GATE-POSITIVE 1	1	1		E28
52	52		1912097-00	SN 74S182 LOOK AND CARRY GEN	1	1		E45
53	53		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	2	2		E67,E125
54	54		1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	2		E48,E36
55	55		1912728-00	74S251 MUX 1 OF 8 TRI-STA	4	4		E72,E77,E78,E79
56	56		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1		E98
57	57		1912803-00	LS04 INVERTER GATE,HEX	2	2		E85,E107
58	58		1912808-00	LS11 AND GATE-TRIPLE 3IN	1	1		E65
59	59		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	1		E99
60	60		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1		E125
61	61		1912842-00	LS138 DECODER-THREE INPUT,	1	1		E75
62	62		1912860-00	LS259 LATCH 8BIT	1	1		E66
63	63		1912863-00	LS273 FF-D OCTAL W/CLEAR	3	3		E20,E41,E104
64	64		1912864-00	LS279 LATCH,QUAD-S-R	1	1		E76
65	65		1913040-00	DC 005 TRANSCEIVER 4BIT	4	4		E94,E95,E106,E107
66	66		1913245-02	2901A-1 MICROPROCESSOR 4-	4	4		E55,E56,E57,E58
67	67		1913414-00	LS14 INVERTER GATE-HEX SC	1	1		E87
68	68		1913939-00	LS191 COUNTER,SYNCHR. UP/D	2	2		E112,E122
69	69		1914214-00	LS374 FF-D OCTAL EDGE TRIG	6	6		E23,E26,E27,E113,E114,E123
70	70		1914438-00	DC 013 UNIBUS INTERRUPT-BIP	2	2		E116,E117
71	71		1914451-00	74LS393 COUNTER,BINARY,4BIT	3	3		E111,E127,E128
72	72		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2	2		E59,E63
73	73		1915218-00	LS245 TRANSCEIVER,BUS,DC	2	2		E105,E115
74	74		1915305-00	AM 2908 TRANSCEIVER,BUS,LATCH	4	4		E52,E53,E60,E61
75	75		1916680-01	2911A MICROPROGRAM SEQUENC	6	6		E9,E10,E18,E19,E29,E30
76	76		1917956-00	74LS280N PARITY GEN/CHK,9BIT	6	6		E31,E32,E34,E36,E37,E38
77	77		23301E2-00	E2-06	1	1		E100
78	78		23302E2-00	E2-06	1	1		E102

D I S T R I B U T I O N		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		UDA #1				M7161-0-DBP	B

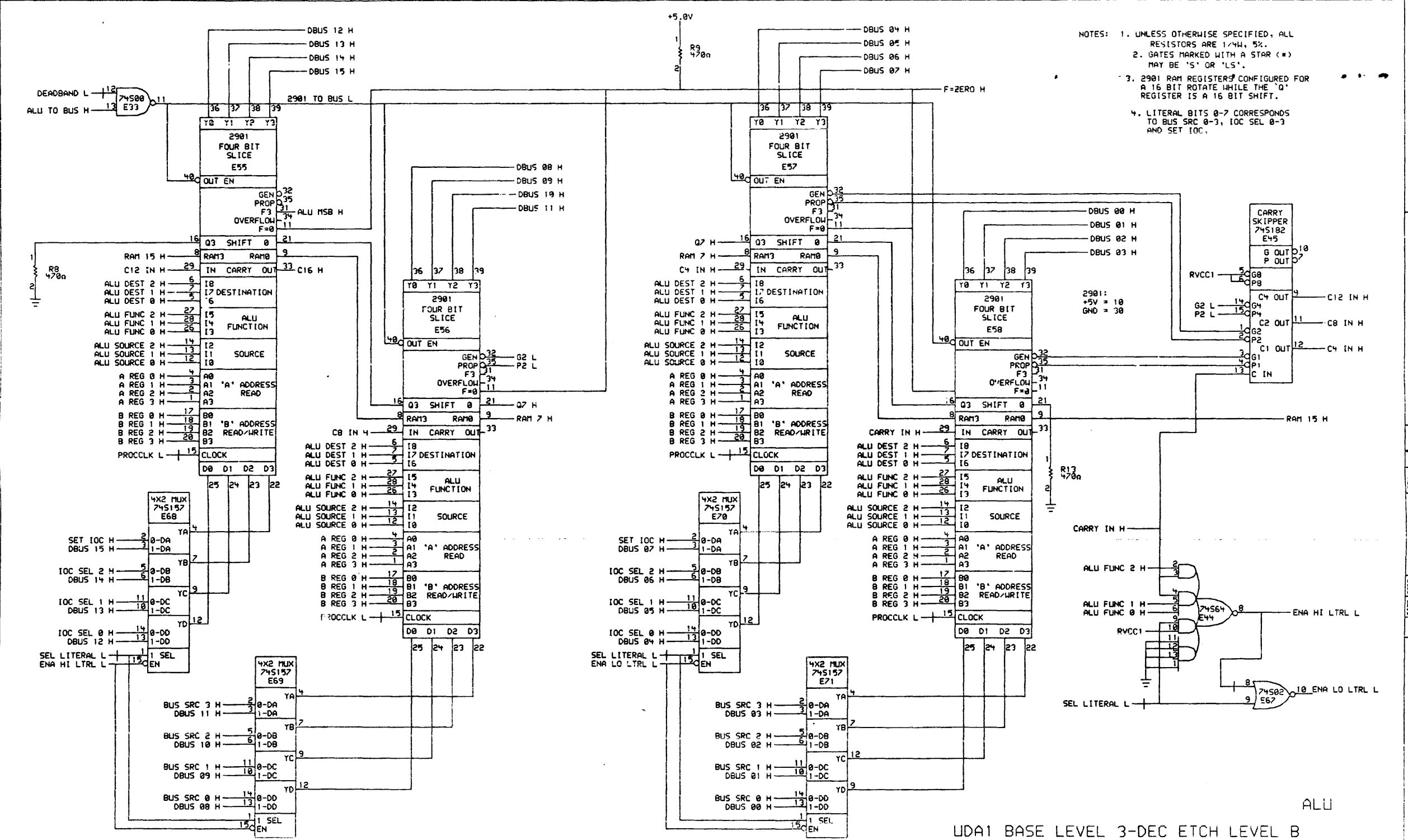
AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00	YA	
79	79		4901259-00	ADHESIVE,ETHYL CYANOACRYLATE,KIT	A/R	A/R	
80	80		5408778-00	REPLACED BY 13-18784-01	1	1	E74
81	81		9000024-01	EYELET,ROLLED 0.1210DX0.192	11	11	
82	82		9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	A/R	
83	83		9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	
84	84		23064F4-00	F4-01	-	1	E17
85	85		23065F4-00	F4-01	-	1	E16
86	86		23066F4-00	F4-01	-	1	E15
87	87		23067F4-00	F4-01	-	1	E14
88	88		23068F4-00	F4-01	-	1	E13
89	89		23069F4-00	F4-01	-	1	E12
90	90		23070F4-00	F4-01	-	1	E6
91	91		23071F4-00	F4-01	-	1	E5
92	92		23072F4-00	F4-01	-	1	E4
93	93		23073F4-00	F4-01	-	1	E3
94	94		23074F4-00	F4-01	-	1	E2
95	95		23075F4-00	F4-01	-	1	E1
96	96		1912850-00	LS164 SHIFT REG. 8BIT SERI	1	1	E124
97	97		1215899-00	JUMPER 02POS CLIP TIN .02 -.	1	1	W14
98	98		9009149-01	PIN,STAKING 0.235 HX0.345LG SQUA	4	4	TP21-TP24

D I G I T A I L				TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				UDA #1		K	PL	M7161-0-DBP	D



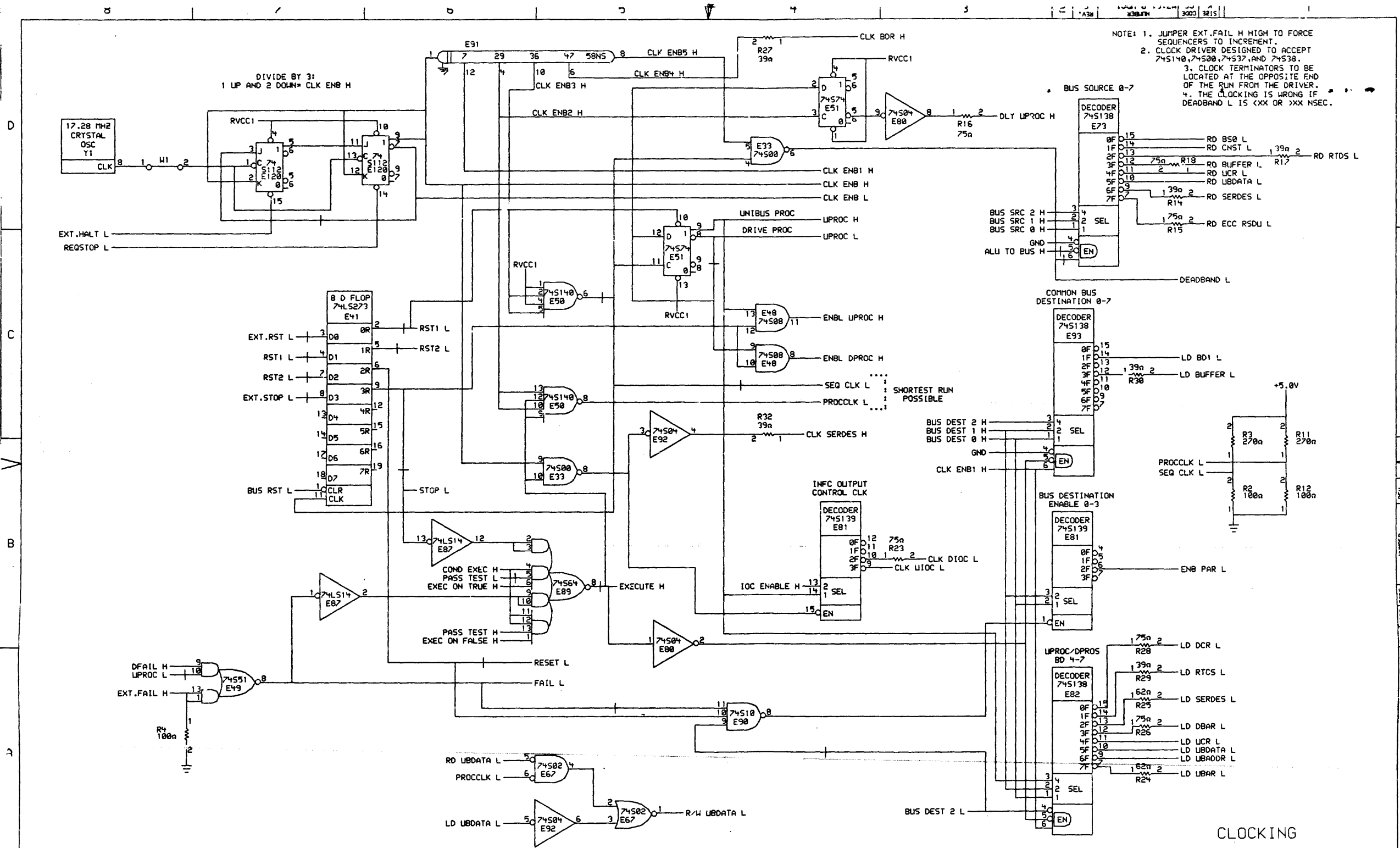
- NOTES: 1. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W, 5%.  
 2. GATES MARKED WITH A STAR (\*) MAY BE 'S' OR 'LS'.  
 3. 2901 RAM REGISTERS CONFIGURED FOR A 16 BIT ROTATE WHILE THE 'Q' REGISTER IS A 16 BIT SHIFT.  
 4. LITERAL BITS 0-7 CORRESPONDS TO BUS SRC 0-3, IOC SEL 0-3 AND SET IOC.

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REV.	CHG. NO.	REV.
1		

DATE ENG.	DATE	TITLE:
20-JUL-82	7-2-82	UDA # 1
DATE BOARD LOCATION:	DE 15	
DATE NEXT HIGH ASSEMBLY:		
DATE FIRST USED ON PRODUCTION MODEL:	UDA	

SIZE CODE: K CS M7161-2-UDA1

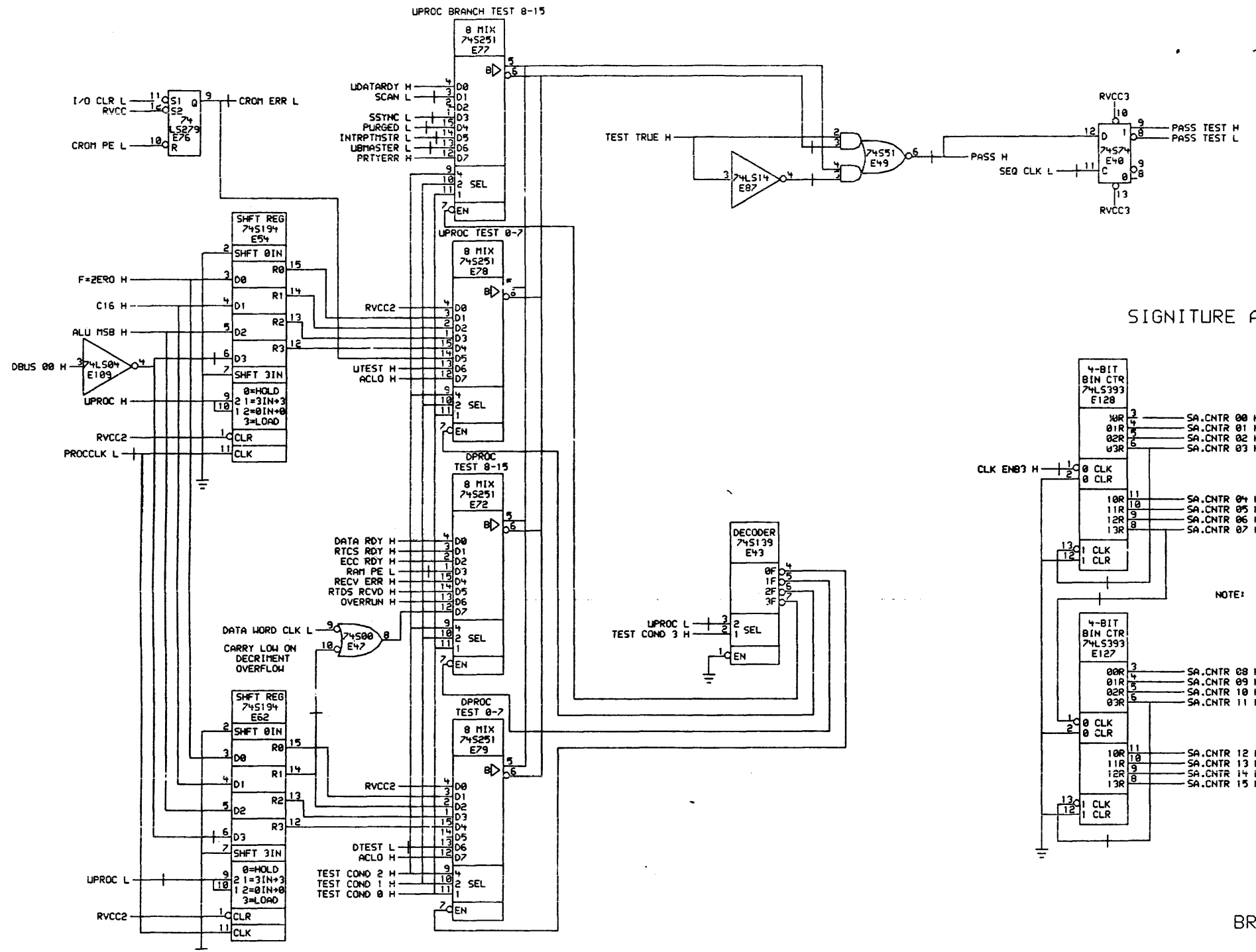


CLOCKING

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REV.	NO.	DESCRIPTION	DATE
1	1	INITIAL DESIGN	20-JUL-82
2	1	REVISED FOR MANUFACTURE	10-AUG-82

DRW. DATE: 20-JUL-82	ENG. DATE: 10-AUG-82	TITLE: CLOCKS
CHK'D. DATE: 10-AUG-82	BOARD LOCATION: SHEET 2 OF 15	UDA # 1
NEXT HIGHER ASSEMBLY: B-DD-M7161-0		SIZE: K
FIRST USED ON OPTION/MODEL: UDA		CODE: CS
NUMBER: M7161-0-UDA1		REV.: E



SIGNATURE ANALYSER CONTROL

NOTE: SIGNATURE ANALYSER CONNECTIONS  
 CLOCK = CLK ENB L = P3-19 RISING EDGE  
 START = SA.START H = RISING EDGE  
 STOP = SA.STOP L = FALLING EDGE  
 JUMPER INT.RESET L TO EXT.RST L

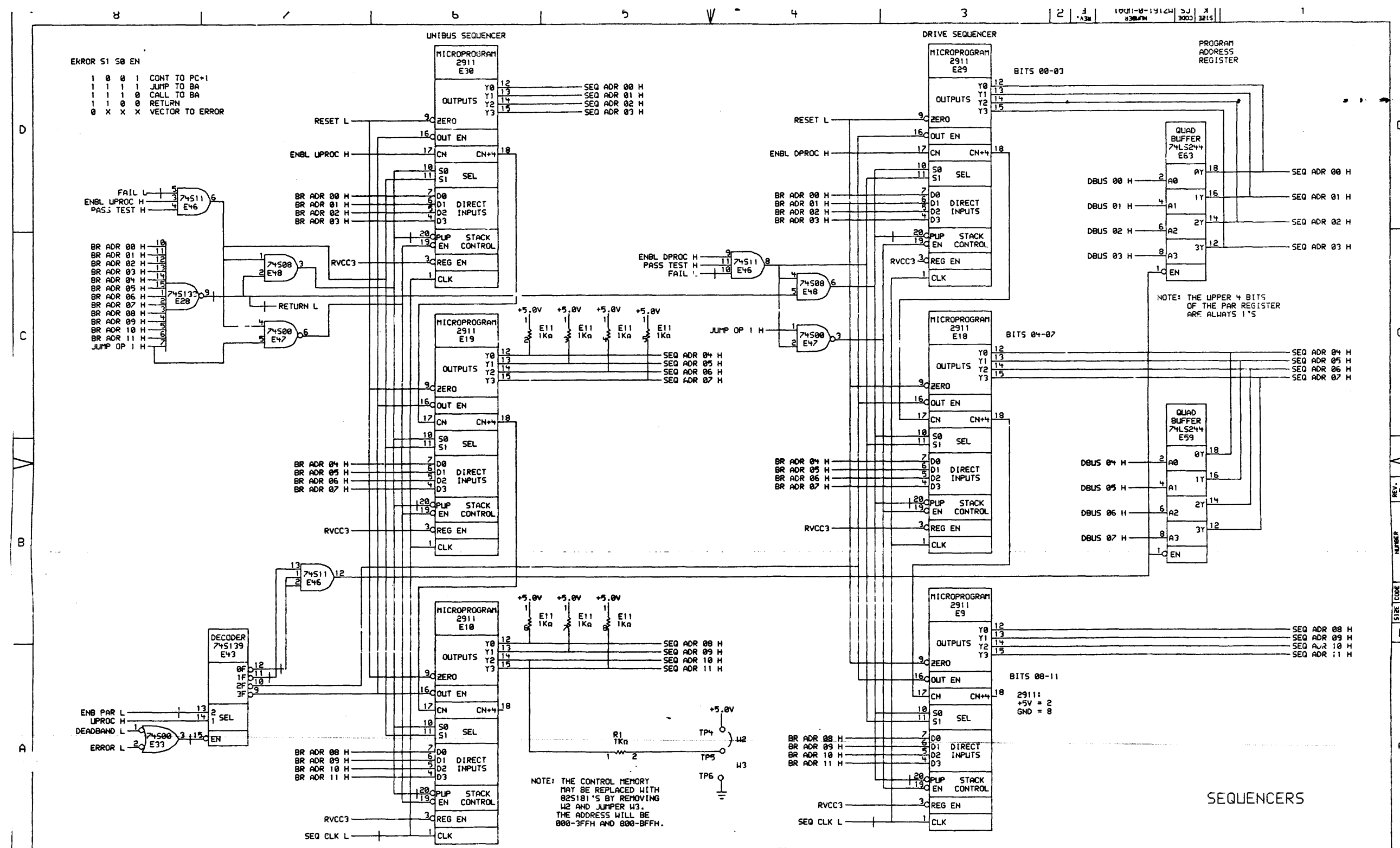
BRANCHING

REV.	NO.	DATE	BY	CHK'D
1	1	28-JUL-82	DRN	

REV.	NO.	DATE	BY	CHK'D
1	1	28-JUL-82	DRN	

DRN	DATE	ENG.	DATE	TITLE:
CHK'D	DATE	BOARD LOCATION:	SHEET	UDA # 1
PS: DOUGHERTY	DATE: 28-JUL-82	NEXT HIGHER ASSEMBLY:	SIZE CODE:	NUMBER
FIRST USED ON OPTION/MODEL:	UDA	B-DD-M7161-0	K CS	M7161-0-UDA1
				REV. E

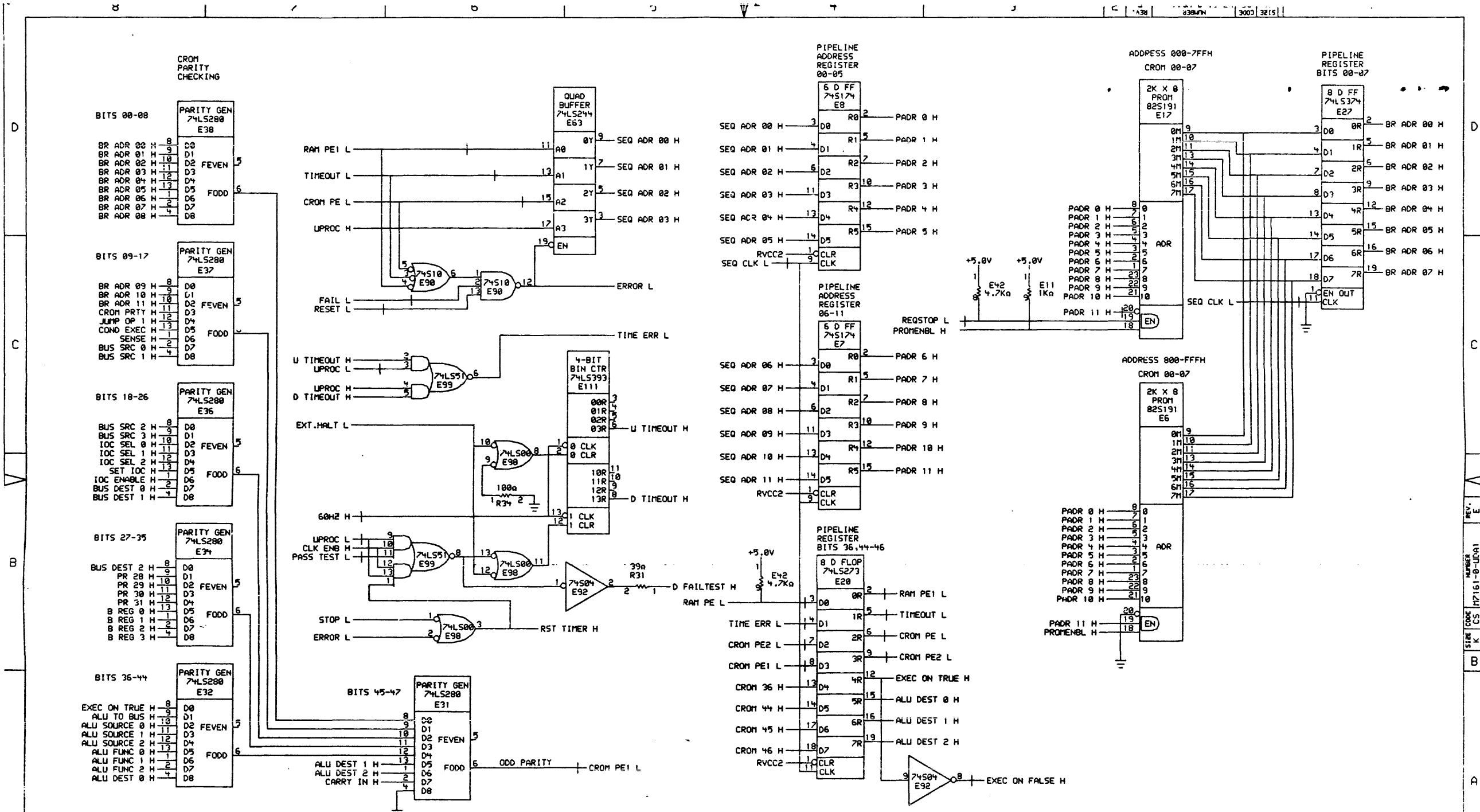




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REV.	CHG	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:		UDA # 1
PS: DOUGHERTY, L. D. 10:30 NEXT HIGHER ASSEMBLY: B-DD-M7161-0					SIZE CODE NUMBER REV.
FIRST USED ON OPTION MODEL: UDA					K CS M7161-0-UDA1 E



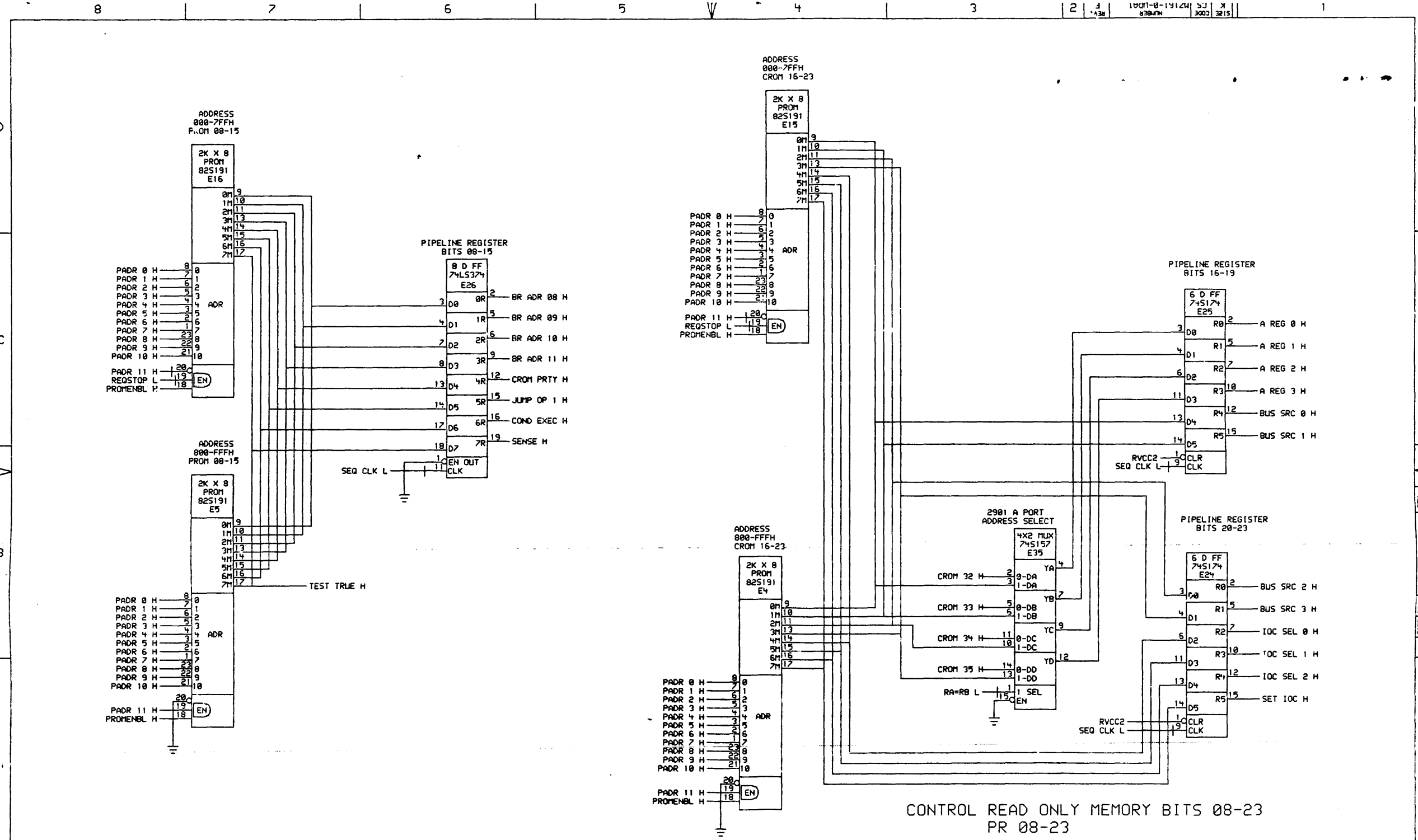
NOTE: AN ERROR WILL ALLOW THE INSTRUCTION WITH THE ERROR TO COMPLETE, THE NEXT ONE, THEN VECTOR TO THE ERROR ROUTINE.

CONTROL READ ONLY MEMORY BITS 00,07  
PARITY AND PAR,PR 00-07,36,44-46

REV.	DATE	BY	CHK	CHANGE NO.	REV

REV.	DATE	BY	CHK	CHANGE NO.	REV

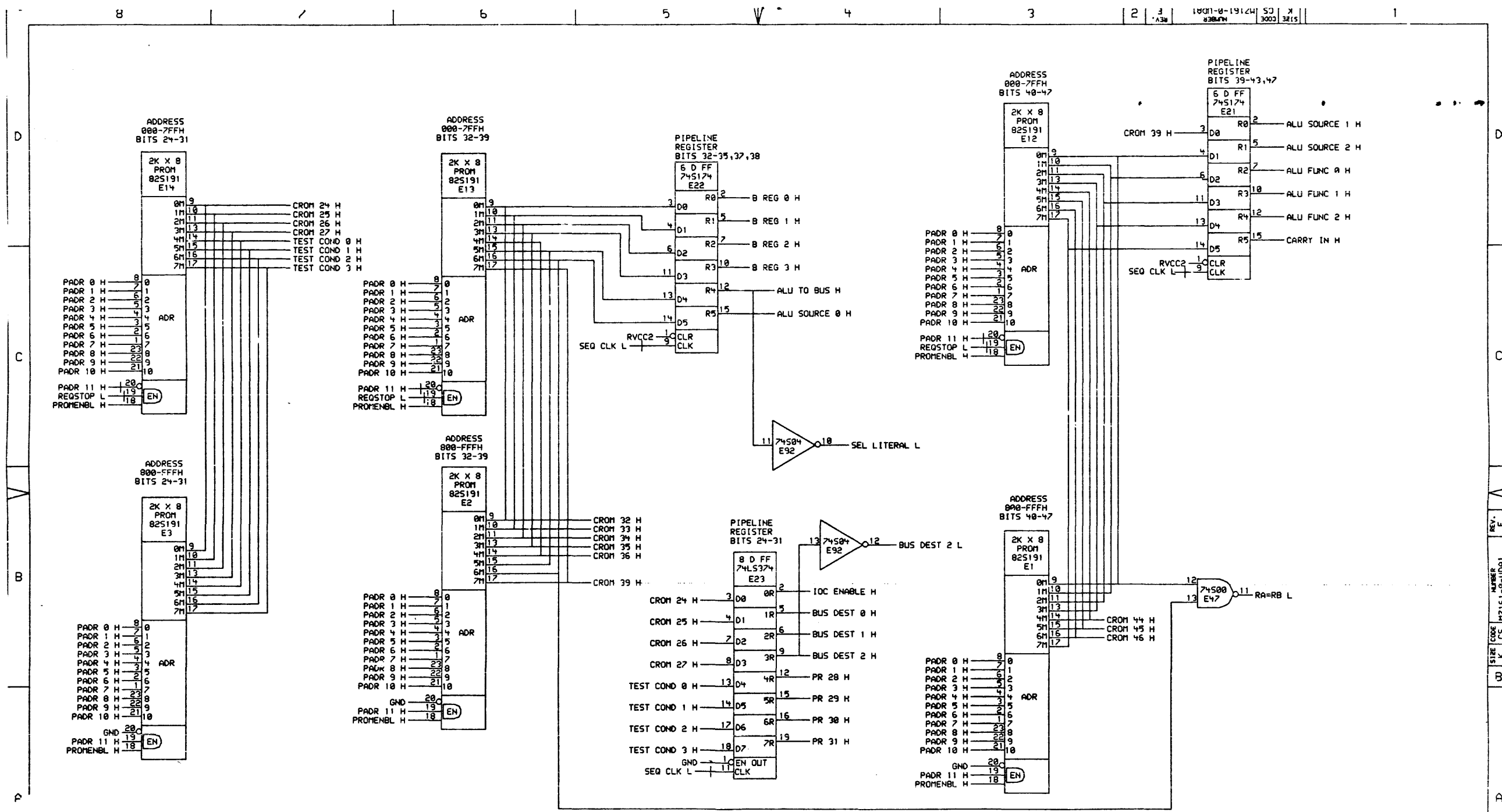
<b>digital</b>	DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	28-JUL-92				LDA # 1
PS: DOUGHERTY/UDATES.DRW/28-JUL-92 10:49	DATE	BOARD LOCATION:	SHEET	OF	15
FIRST USED ON OPTION/MODEL: LDA	1R-DD-M7161-0				
		SIZE CODE	NUMBER	REV.	
		K CS	M7161-0-LDA1	E	



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REV.	CHK	CHANGE NO.	REV

	DRN. DATE 20-JUL-82 ENG.	DATE BOARD LOCATION:	TITLE: LUDA # 1
PS: <DOUGHERTY>JDATE6.DRW119-JUL-82 16:44 FIRST USED ON OPTION/MODEL: LUDA	DATE NEXT HIGHER ASSEMBLY:	SHEET 6 OF 15	SIZE CODE NUMBER REV. K CS M7161-0-LUDA1 E

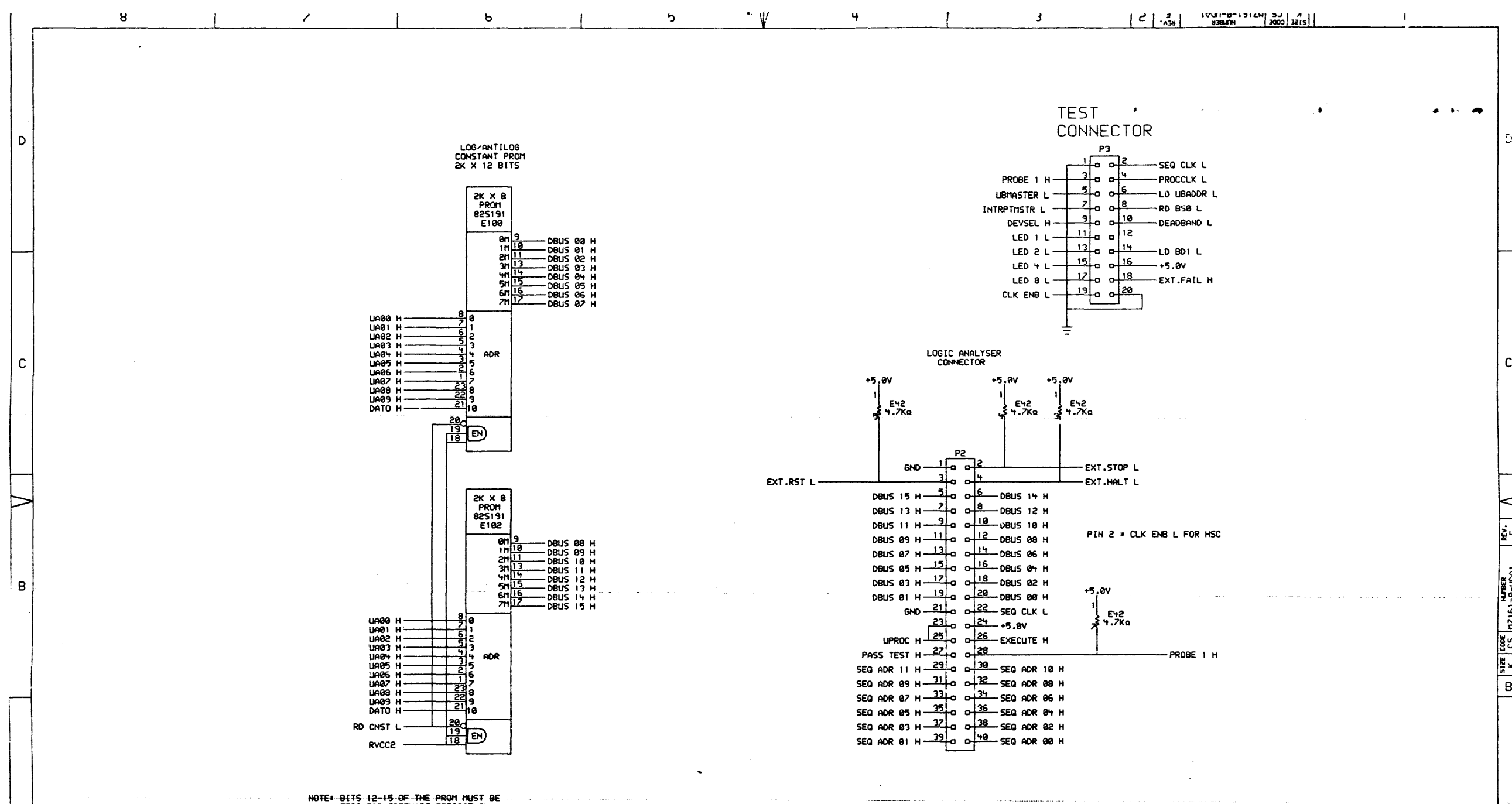


CONTROL READ ONLY MEMORY BITS 24-47  
PR 32-35,37-43,47

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REVISIONS	
CHK	CHANGE NO. REV.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	28-JUL-82			LDA # 1
PS: <DOUGHERTY> DATE: 27-JUL-82 16:52		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: LDA		B-DD-M7161-0		K CS	M7161-0-LDA1
					REV. E



NOTE: BITS 12-15 OF THE PROM MUST BE ZERO FOR SOFTWARE EFFICIENCY.

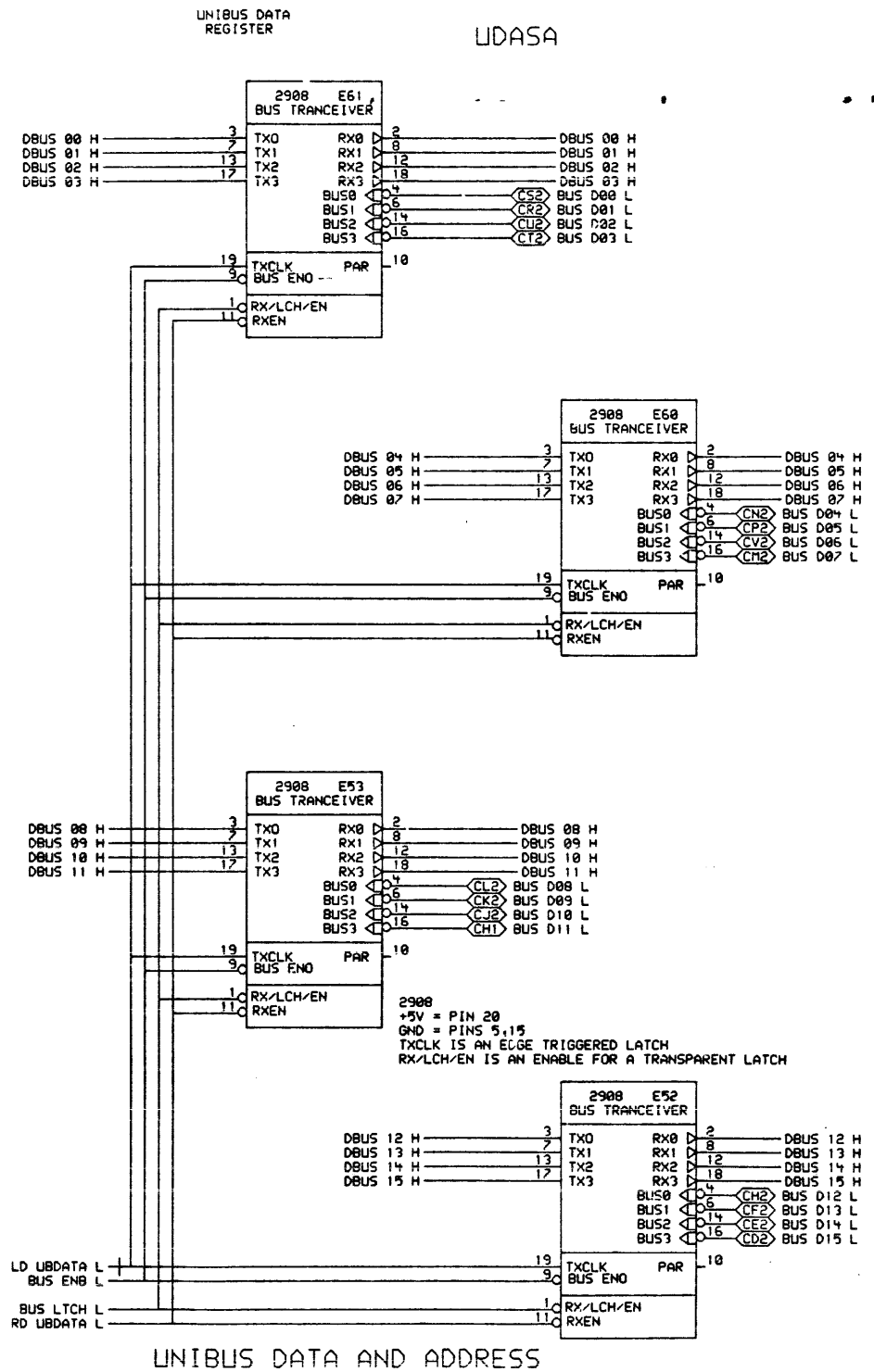
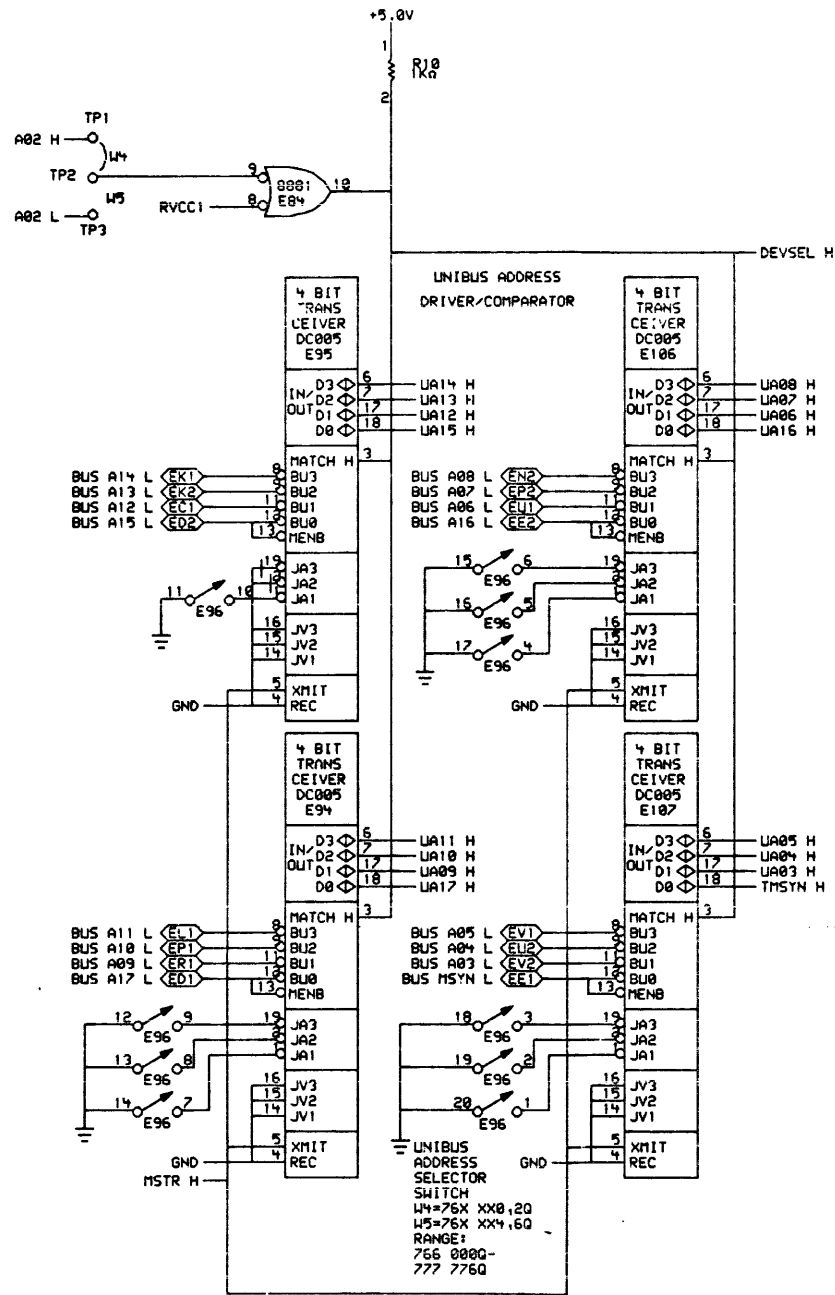
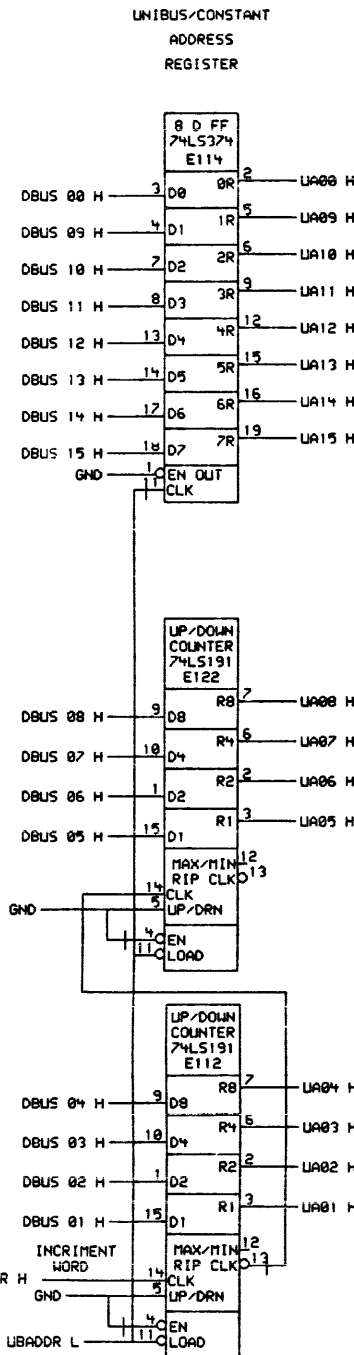
LOG/ALG PROM AND CONNECTORS

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REVISIONS	
CHK	CHANGE NO. REV.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET 9 OF 15	UDA # 1
PS: DOUGHERTY\UDA18.DRW [28-JUL-82 13:41] NEXT HIGHER ASSEMBLY:		FIRST USED ON OPTION/MODEL: UDA		B-DD-M7161-0	SIZE CODE NUMBER REV. K CS M7161-0-UDA1 E

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

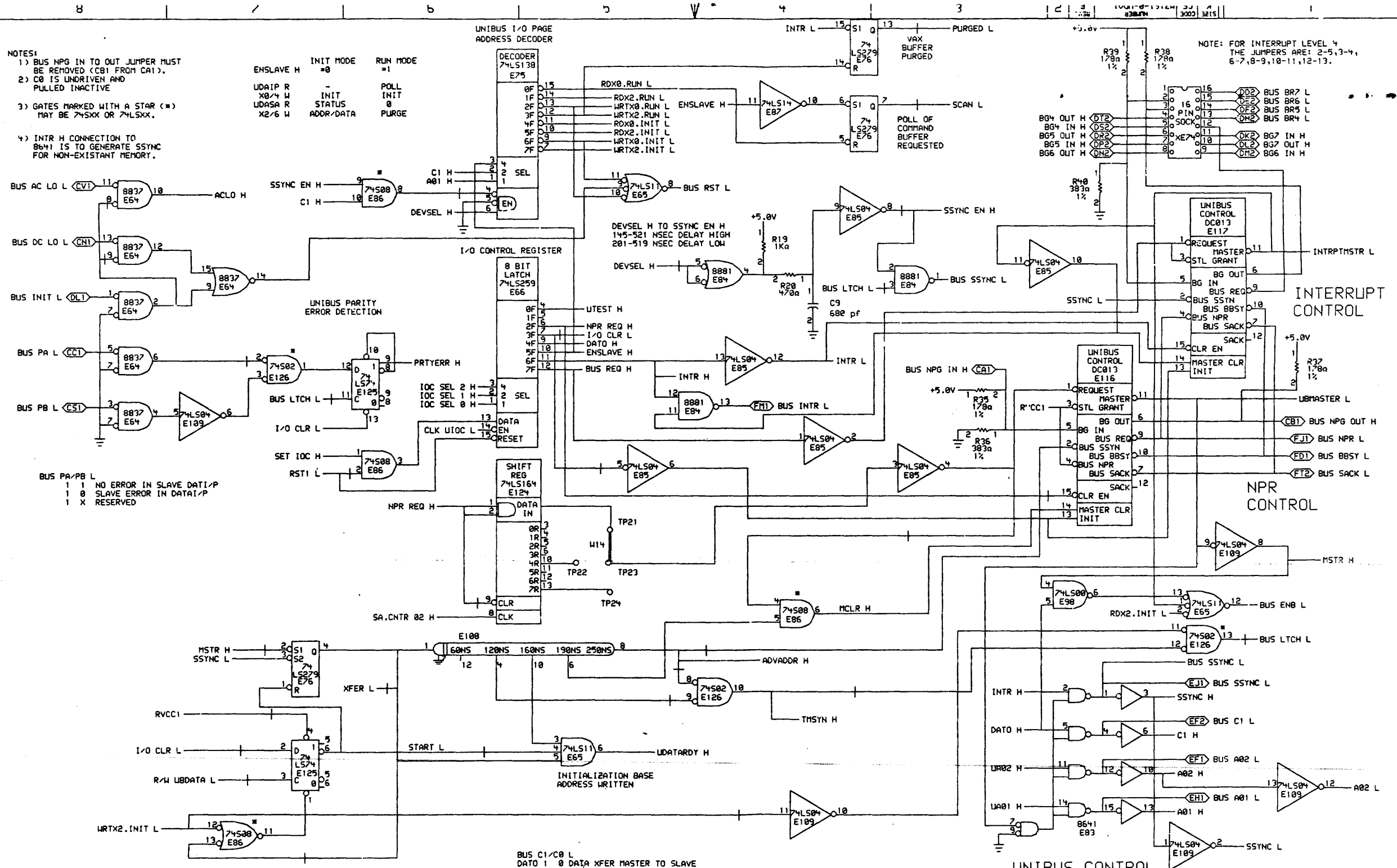


AUTO-INCREMENT FOR 256 WORDS MAX.

REV.	CHK	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE:
	20-JUL-92			UDA # 1
CHK'D.				
PS: DOUGHERTY, UDAS9.DRAW120-JUL-92 12:53				
FIRST USED ON OPTION/MODEL:	UDA			

REV. E  
NUMBER M7161-0-UDA1  
SIZE CODE K CS  
B



NOTES:  
 1) BUS NPG IN TO OUT JUMPER MUST BE REMOVED (C01 FROM CA1).  
 2) C0 IS UNDRIVEN AND PULLED INACTIVE.  
 3) GATES MARKED WITH A STAR (\*) MAY BE 74SXX OR 74LSXX.  
 4) INTR H CONNECTION TO 8641 IS TO GENERATE SSSYNC FOR NON-EXISTANT MEMORY.

ENSLAVE H	INIT MODE =0	RUN MODE =1
UDAIP R	-	POLL
X0/4 W	INIT	INIT
UDASA R	STATUS	0
X2/6 W	ADDR/DATA	PURGE

NOTE: FOR INTERRUPT LEVEL 4 THE JUMPERS ARE: 2-5,3-4, 6-7,8-9,10-11,12-13.

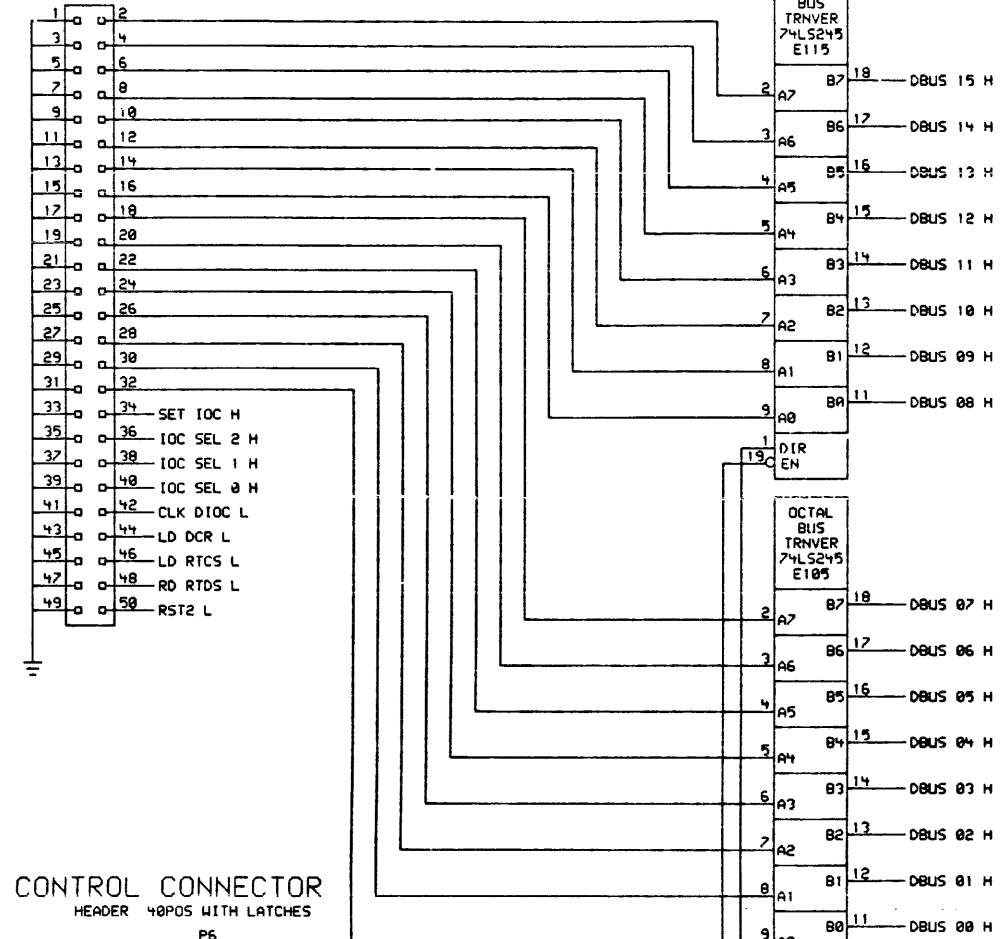
BUS PA/PB L  
 1 1 NO ERROR IN SLAVE DATI/P  
 1 0 SLAVE ERROR IN DATI/P  
 1 X RESERVED

BUS C1/C0 L  
 DATO 1 0 DATA XFER MASTER TO SLAVE  
 DATI 1 1 DATA XFER SLAVE TO MASTER

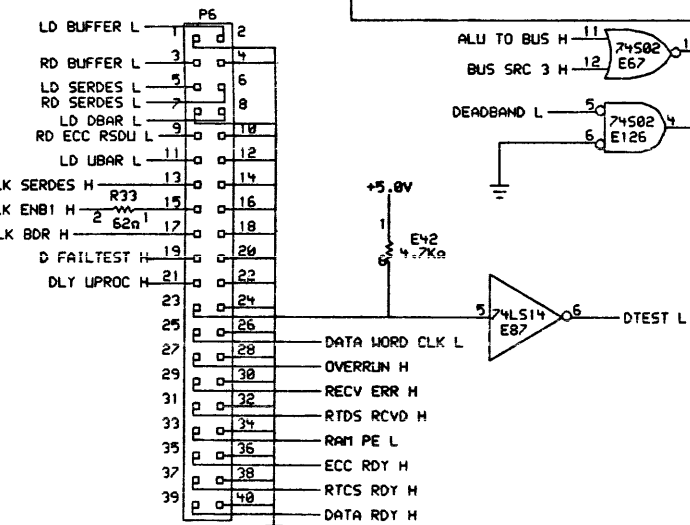
REVISONS
CHK CHANGE NO. REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	DATE	BOARD LOCATION:		LDA # 1
FIRST USED ON OPTION/MODEL:	LDA	B-DD-M7161-0	SIZE CODE	NUMBER
			K CS	M7161-0-LDA1
			REV.	E

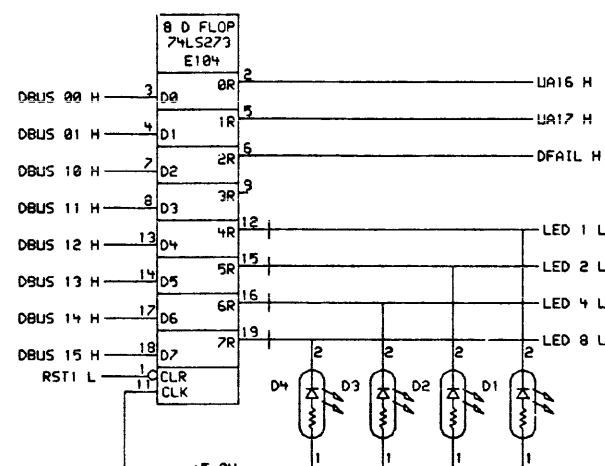
DATA BUS CONNECTOR



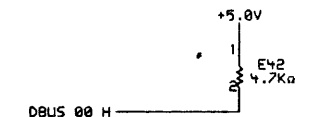
CONTROL CONNECTOR  
HEADER 40PINS WITH LATCHES



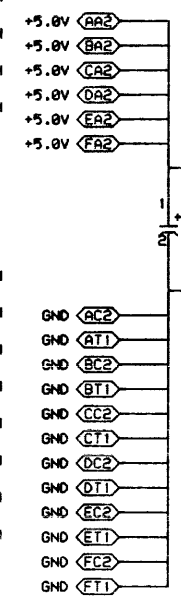
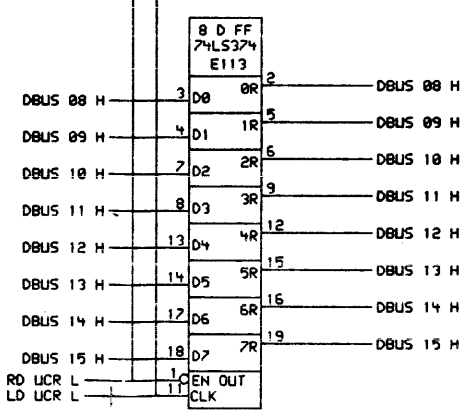
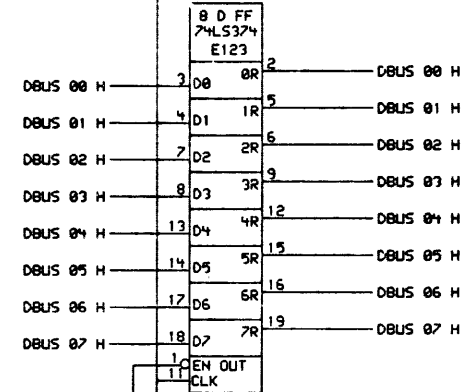
UNIBUS CONTROL REGISTER WRITE ONLY



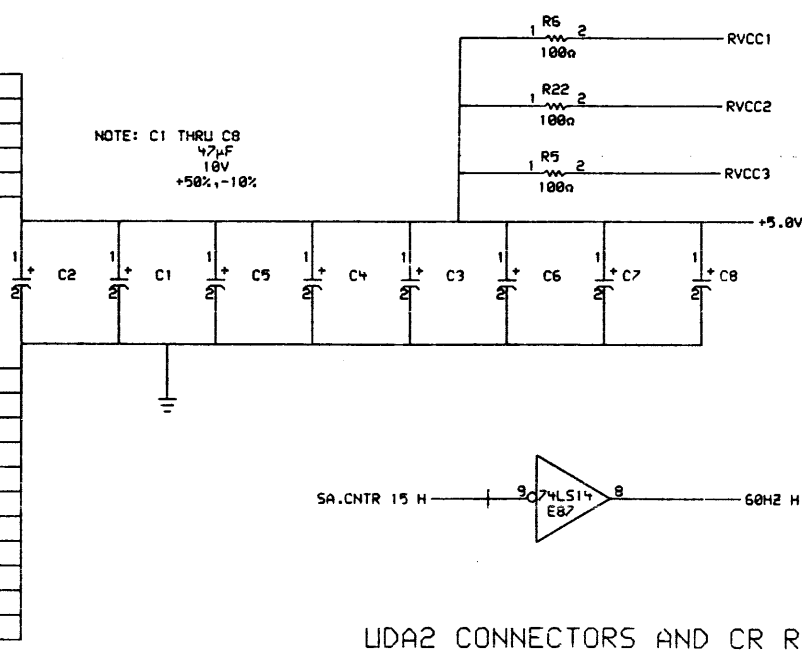
NOTE: DBUS 00 H MUST BE PULLED UP  
THE OTHER PULLUPS ARE OPTIONAL.



UNIBUS CONTROL REGISTER READ/WRITE



NOTE: C1 THRU C8  
47µF  
10V  
+50%,-10%



LDA2 CONNECTORS AND CR REG

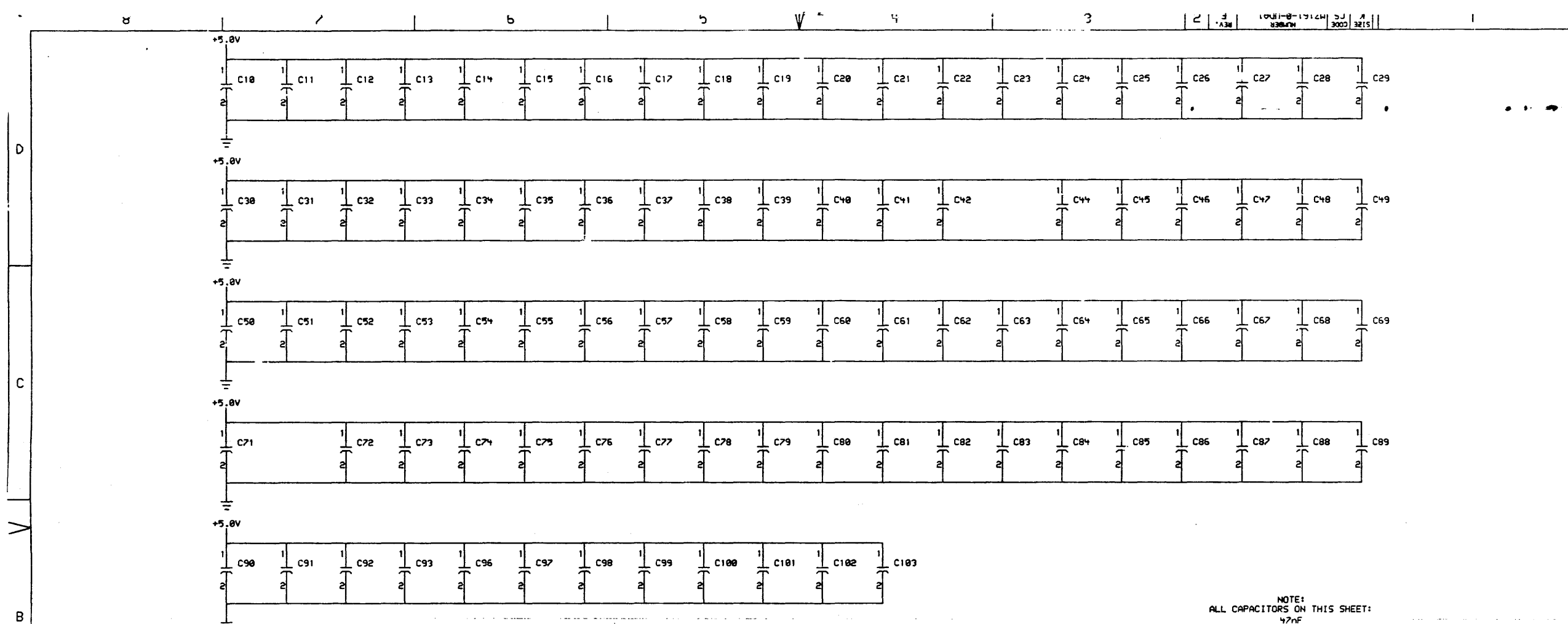
REV. E  
NUMBER R7161-0-LDA1  
SIZE CODE CS  
K

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REV.	CHANGE NO.	REV.

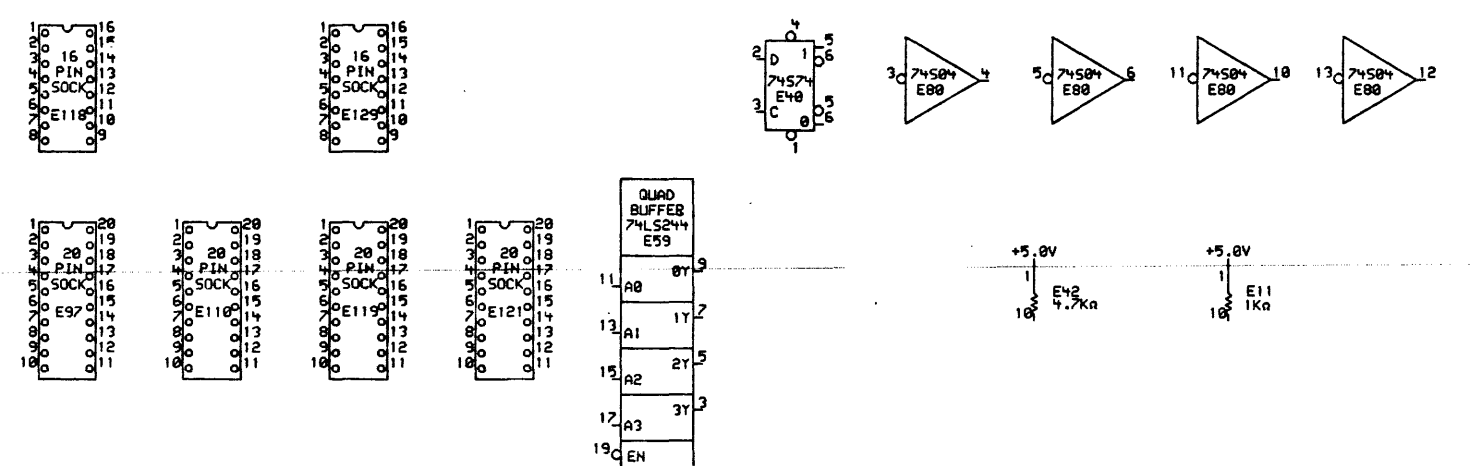
digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	28-11-82			LDA # 1
FIRST USED ON OPTION/MODEL: LDA B-DD-M7161-0					
SIZE CODE	NUMBER	REV.			
K CS	M7161-0-LDA1	E			





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

SPARES



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REV.	CHG	NO.	REV.

	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:	SHEET 12 OF 15	LDA # 1
PSI<DOUGHERTY>LDA1C.DRW 20-JUL-82 13:44 NEXT HIGHER ASSEMBLY: LDA			FIRST USED ON OPTION/MODEL: LDA		SIZE CODE NUMBER REV. K CS M7161-0-LDA1 E

REV. E  
NUMBER M7161-0-LDA1  
SIZE CODE CS

Vertical location (A-D)			Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)		
KFT:	SS-VH,D	Horizontal location (1-8)			
Schematic Sheet			Horizontal location (1-8)		
+5.0V	1-D5,D	2-C1,D 4-A4,D 4-B5,D 4-B5,D 4-B6,D			
	4-C5,D 4-C5,D	4-C5,D 4-C6,D 5-B4,D 5-C3,D 5-C3,D 8-B3,D			
	8-B3,L 8-C2,L	8-C3,D 8-C3,D 8-C4,D 9-D5,D 10-C1,D 10-C3,R			
	10-D2,R 10-D4,D	11-A7,D 11-B1,L 11-C4,R 11-D2,D 12-A3,D 12-A4,D			
	12-B7,D 12-C7,D	12-C7,D 12-D7,D 12-D7,D 11-B3,R <AA2>			
	11-B3,R <BA2>	11-B3,R <CA2> 11-B3,R <DA2> 11-B3,R <EA2>			
		11-B3,R <FA2>			
50HZ H		5-B7,R 11-A1,L			
A REG 0 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 6-C1,L			
A REG 1 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 6-C1,L			
A REG 2 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 6-C1,L			
A REG 3 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 6-C1,L			
A01 H		10-A2,L 10-D6,R			
A02 H		9-D6,R 10-A2,L			
A02 L		9-D6,R 10-A1,L			
ACLO H		7-A6,R 3-C6,R 10-D7,L			
ADVADDR H		9-A8,R 10-B4,L			
ALU DEST 0 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A4,L 5-A8,R			
ALU DEST 1 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A4,L 5-A7,R			
ALU DEST 2 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A4,L 5-A7,R			
ALU FUNC 0 H	1-B2,R	1-B3,R 1-B6,R 1-C4,R 1-C8,R 5-A8,R			
		7-D2,L			
ALU FUNC 1 H	1-B2,R	1-B3,R 1-B6,R 1-C4,R 1-C8,R 5-A8,R			
		7-D2,L			
ALU FUNC 2 H	1-B2,R	1-B3,R 1-B6,R 1-C4,R 1-C8,R 5-A8,R			
		7-D2,L			
ALU MSB H		1-D7,L 3-C7,R			
ALU SOURCE 0 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A8,R 7-C4,L			
ALU SOURCE 1 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A8,R 7-D2,L			
ALU SOURCE 2 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-A8,R 7-D2,L			
ALU TO BUS H		1-D8,R 2-C3,R 5-A8,R 7-C4,L 11-B7,R			
B REG 0 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-B8,R 7-D5,L			
B REG 1 H	1-B3,R	1-B6,R 1-C4,R 1-C8,R 5-B8,R 7-D5,L			
B REG 2 H	1-B3,R	1-B4,R 1-B6,R 1-B8,R 5-B8,R 7-D5,L			
B REG 3 H	1-B3,R	1-B4,R 1-B6,R 1-B8,R 5-B8,R 7-C5,L			
BG4 IN H		10-D2,R <DS2>			
BG4 OUT H		10-D2,R <DT2>			
BG5 IN H		10-D2,R <DP2>			
BG5 OUT H		10-D2,R <DR2>			
BG6 IN H		10-D1,L <DN2>			
BG6 OUT H		10-D2,R <DN2>			
BG7 IN H		10-D1,L <DK2>			
BG7 OUT H		10-D1,L <DL2>			
BR ADR 00 H	4-C8,R	4-D4,R 4-D7,R 5-D1,L 5-D8,R			
BR ADR 01 H	4-C8,R	4-D4,R 4-D7,R 5-D1,L 5-D8,R			
BR ADR 02 H	4-C8,R	4-D4,R 4-D7,R 5-D1,L 5-D8,R			
BR ADR 03 H	4-C8,R	4-D4,R 4-D7,R 5-D1,L 5-D8,R			
BR ADR 04 H	4-B4,R	4-B7,R 4-C8,R 5-D1,L 5-D8,R			
BR ADR 05 H	4-B4,R	4-B7,R 4-C8,R 5-D1,L 5-D8,R			
BR ADR 06 H	4-B4,R	4-B7,R 4-C8,R 5-D1,L 5-D8,R			
BR ADR 07 H	4-B4,R	4-B7,R 4-C8,R 5-D1,L 5-D8,R			
BR ADR 08 H	4-A4,R	4-A7,R 4-C8,R 5-D8,R 6-C6,L			
BR ADR 09 H	4-A4,R	4-A7,R 4-C8,R 5-C8,R 6-C6,L			
BR ADR 10 H	4-A4,R	4-A7,R 4-C8,R 5-C8,R 6-C6,L			
BR ADR 11 H	4-A4,R	4-A7,R 4-C8,R 5-C8,R 6-C6,L			

BUS A01 L	10-A2,L <EH1>
BUS A02 L	10-A2,L <EF1>
BUS A03 L	9-B5,R <EV2>
BUS A04 L	9-B5,R <EU2>
BUS A05 L	9-B5,R <EV1>
BUS A06 L	9-C5,R <EU1>
BUS A07 L	9-C5,R <EP2>
BUS A08 L	9-C5,R <EN2>
BUS A09 L	9-B6,R <ER1>
BUS A10 L	9-B6,R <EP1>
BUS A11 L	9-B6,R <EL1>
BUS A12 L	9-C6,R <EC1>
BUS A13 L	9-C6,R <EK2>
BUS A14 L	9-C6,R <EK1>
BUS A15 L	9-C6,R <ED2>
BUS A16 L	9-C5,R <EE2>
BUS A17 L	9-B6,R <ED1>
BUS AC LO L	10-D8,R <CV1>
BUS BBSY L	10-B1,L <FD1>
3L BR4 L	10-D1,L <DH2>
BUS BR5 L	10-D1,L <DF2>
BUS BR6 L	10-D1,L <DE2>
BUS BR7 L	10-D1,L <DD2>
BUS C1 L	10-A2,L <EF2>
BUS D00 L	9-D2,L <CS2>
BUS D01 L	9-D2,L <CR2>
BUS D02 L	9-D2,L <CU2>
BUS D03 L	9-D2,L <CT2>
BUS D04 L	9-C1,L <CN2>
BUS D05 L	9-C1,L <CP2>
BUS D06 L	9-C1,L <CV2>
BUS D07 L	9-C1,L <CM2>
BUS D08 L	9-B2,L <CL2>
BUS D09 L	9-B2,L <CK2>
BUS D10 L	9-B2,L <CJ2>
BUS D11 L	9-B2,L <CH1>
BUS D12 L	9-A1,L <CH2>
BUS D13 L	9-A1,L <CF2>
BUS D14 L	9-A1,L <CE2>
BUS D15 L	9-A1,L <CD2>
BUS DC LO L	10-C8,R <CN1>
BUS DEST 0 H	2-C3,R 5-B8,R 7-B4,L
BUS DEST 1 H	2-C3,R 5-B8,R 7-B4,L
BUS DEST 2 H	2-C3,R 5-B8,R 7-B4,L
BUS DEST 2 L	2-A3,R 7-B4,L
BUS ENB L	9-A3,R 10-B1,L
BUS INIT L	10-C8,R <DL1>
BUS INTR L	10-C4,L <FM1>
BUS LTCH L	9-A3,R 10-B1,L 10-C3,R 10-C7,R
BUS MSYN L	9-B5,R <EE1>
BUS NPG IN H	10-C3,R <CA1>
BUS NPG OUT H	10-C1,L <CB1>
BUS NPR L	10-C1,L <FJ1>
BUS PA L	10-C8,R <CC1>
BUS PB L	10-C8,R <CS1>
BUS REQ H	10-C5,L
BUS RST L	2-B7,R 10-D5,L
BUS SACK L	10-B1,L <FT2>
BUS SRC 0 H	1-A4,R 1-A7,R 2-D3,R 5-C8,R 6-C1,L
BUS SRC 1 H	1-A4,R 1-A7,R 2-D3,R 5-C8,R 6-C1,L
BUS SRC 2 H	1-A4,R 1-A7,R 2-D3,R 5-C8,R 6-B1,L

BUS SRC 3 H	1-A4,R 1-A7,R 5-C8,R 6-B1,L 11-B7,R
BUS SSYNC L	10-B2,L 10-C3,L 10-A2,L <EJ1>
C1 H	10-A2,L 10-D6,R 10-D7,R
C12 IN H	1-C1,L 1-C8,R
C16 H	1-C7,L 3-C7,R
C4 IN H	1-C1,L 1-C4,R
C8 IN H	1-B6,R 1-C1,L
CARRY IN H	1-B2,R 1-B3,R 5-A7,R 7-D2,L
CLK BDR H	2-D4,L 11-A8,R
CLK DI0C L	2-B3,L 11-C8,R
CLK ENB H	2-D4,L 5-B7,R
CLK ENB L	2-D4,L 8-C3,R
CLK ENB1 H	2-B3,R 2-D4,L 11-A8,R
CLK ENB2 H	2-D6,L
CLK ENB3 H	2-D6,L 3-C3,R
CLK ENB4 H	2-D5,L
CLK SERDES H	2-C4,L 11-A8,R
CLK UI0C L	2-B3,L 10-C6,R
COND EXEC H	2-B6,R 5-C8,R 6-C6,L
CROM 24 H	7-B5,R 7-D7,L
CROM 25 H	7-B5,R 7-D7,L
CROM 26 H	7-B5,R 7-D7,L
CROM 27 H	7-B5,R 7-D7,L
CROM 32 H	6-B3,R 7-B5,L
CROM 33 H	6-B3,R 7-B5,L
CROM 34 H	6-B3,R 7-B5,L
CROM 35 H	6-A3,R 7-B5,L
CROM 36 H	5-A4,R 7-B5,L
CROM 39 H	7-B5,L 7-D2,R
CROM 44 H	5-A4,R 7-B3,L
CROM 45 H	5-A4,R 7-B3,L
CROM 46 H	5-A4,R 7-B3,L
CROM ERR L	3-D7,L
CROM PE L	3-D7,R 5-B4,L 5-D7,R
CROM PE1 L	5-A5,L 5-B4,R
CROM PE2 L	5-B4,L 5-B4,R
CROM PRY H	5-C8,R 6-C6,L
D FAILTEST H	5-B5,L 11-A8,R
D TIME0UT H	5-B5,L 5-C7,R
DATA RDY H	3-B6,R 11-A7,L
DATA WORD CLK L	3-B7,R 11-A7,L
DATO H	8-A6,R 8-C6,R 10-A3,R 10-C5,L
DBUS 00 H	1-A4,R 1-D2,L 3-C8,R 4-D2,R 8-B3,L 8-D6,L 9-D7,R 11-B6,L 11-C4,L 11-C5,R 11-D3,R 11-D5,R
DBUS 01 H	1-A4,R 1-C2,L 4-D2,R 8-B4,R 8-D6,L 9-A7,R 9-D2,L 9-D3,R 11-B6,L 11-C4,L 11-C5,R 11-D5,R
DBUS 02 H	1-A4,R 1-C2,L 4-D2,R 8-B3,L 8-C6,L 9-A7,R 9-D2,L 9-D3,R 11-B4,L 11-B5,R 11-B6,L
DBUS 03 H	1-A4,R 1-C2,L 4-C2,R 8-B4,R 8-C6,L 9-A7,R 9-D2,L 9-D3,R 11-B4,L 11-B5,R 11-B6,L
DBUS 04 H	1-A5,R 1-D4,L 4-B2,R 8-B3,L 8-C6,L 9-A7,R 9-C1,L 9-C2,R 11-B4,L 11-B5,R 11-B6,L
DBUS 05 H	1-B5,R 1-D4,L 4-B2,R 8-B4,R 8-C6,L 9-B7,R 9-C1,L 9-C2,R 11-B4,L 11-B5,R 11-C6,L
DBUS 06 H	1-B5,R 1-D4,L 4-B2,R 8-B3,L 8-C6,L 9-B7,R 9-C1,L 9-C2,R 11-B4,L 11-B5,R 11-C6,L
DBUS 07 H	1-B5,R 1-D4,L 4-B2,R 8-B4,R 8-C6,L 9-B7,R 9-C1,L 9-C2,R 11-B4,L 11-B5,R 11-C6,L
DBUS 08 H	1-A7,R 1-D6,L 8-B3,L 8-B6,L 9-B2,L 9-B3,R 9-B7,R 11-A5,R 11-B4,L 11-C6,L
DBUS 09 H	1-A7,R 1-D6,L 8-B4,R 8-B6,L 9-B2,L 9-B3,R

REVISIONS				DRN.	DATE	ENG.	DATE	TITLE
CHK	CHANGE NO.	REV						
				DIGITAL		DSK1:UDA1E.TP(4,50)		UDA # 1
				FIRST USED ON OPTION/MODEL: UDA		120-JUL-82 12155 NEXT HIGHER ASSEMBLY:		REV. E
						SIZE CODE NUMBER		
						K CS M7161-0-UDA1		

	8	7	6	5	4	3	2	1
D	DBUS 10 H	9-D7,R 11-A4,L 11-A5,R 11-C6,L	1-A7,R 1-D6,L 8-B3,L 8-B6,L 9-B2,L 9-B3,R	LED 1 L	8-D3,R 11-D3,L	RDX0.INIT L	10-D5,L	
	DBUS 11 H	9-D7,R 11-A4,L 11-A5,R 11-D5,R 11-D6,L	1-A7,R 1-D6,L 8-B4,R 8-B6,L 9-B2,L 9-B3,R	LED 2 L	8-D3,R 11-D3,L	RDX2.INIT L	10-B2,R 10-D5,L	
	DBUS 12 H	9-C7,R 11-A4,L 11-A5,R 11-D5,R 11-D6,L	1-A7,R 1-D6,L 8-B4,R 8-B6,L 9-B2,L 9-B3,R	LED 4 L	8-C3,R 11-C3,L	RDX2.RUN L	10-D5,L	
	DBUS 13 H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	9-C7,R 11-A4,L 11-A5,R 11-D5,R 11-D6,L	LED 8 L	8-C3,R 11-C3,L	RECV ERR H	3-B6,R 11-A7,L	
	DBUS 14 H	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	1-A8,R 1-D7,L 8-B3,L 8-B6,L 9-A1,L 9-A2,R	MSTR H	9-A6,R 10-B1,L 10-B7,R	REQSTOP L	2-C8,R 5-C3,R 6-C4,R 6-C8,R 7-C3,R 7-C6,R	
	DBUS 15 H	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	NPR RFQ H	10-B6,R 10-C5,L		7-C8,R	
	DEADBAND L	1-D8,R 2-C2,L 4-A8,R 8-D2,L 11-B7,R	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	OVERRUN H	3-B6,R 11-A7,L	RESET L	2-A6,L 4-D4,R 4-D7,R 5-C7,R	
	DEVSEL H	8-D3,R 9-D4,L 10-C5,R 10-D6,R	1-B8,R 1-D7,L 8-B3,L 8-B6,L 9-A1,L 9-A2,R	P2 L	1-C2,R 1-C6,L	RETURN L	4-C7,L	
	DFAIL H	2-A8,R 11-D3,L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 0 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST TIMER H	5-B6,L	
	DLY UPROC H	2-D3,L 11-A8,R	1-B8,R 1-D7,L 8-B3,L 8-B6,L 9-A1,L 9-A2,R	PADR 1 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST1 L	2-C6,L 2-C7,R 10-B7,R 11-C5,R	
	DTEST L	3-A6,R 11-A6,L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 10 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RST2 L	2-C6,L 2-C7,R 11-C8,L	
	ECC RDY H	3-B6,R 11-A7,L	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 11 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RTCS RDY H	3-B6,R 11-A7,L	
	ENA HI LTRL L	1-A8,R 1-B1,L	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 2 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RTDS RCVD H	3-B6,R 11-A7,L	
	ENA LO LTRL L	1-A1,L 1-A5,R	1-B8,R 1-D7,L 8-B4,R 8-B6,L 9-A1,L 9-A2,R	PADR 3 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC	3-D7,R	
	ENB PAR L	2-B2,L 4-A8,R	9-C7,R 11-A4,L 11-A5,R 11-C5,R 11-D6,L	PADR 4 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC1	1-B2,R 1-C2,R 2-C5,D 2-C6,D 2-D3,L 2-D7,R	
C	ENBL DPROC H	2-C4,L 4-C5,R 4-D4,R	1-D8,R 2-C2,L 4-A8,R 8-D2,L 11-B7,R	PADR 5 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC2	9-D6,R 10-A7,R 10-C3,R 11-B1,L	
	ENBL UPROC H	2-C4,L 4-D7,R 4-D8,R	8-D3,R 9-D4,L 10-C5,R 10-D6,R	PADR 6 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	RVCC3	3-A6,R 3-A7,R 3-C6,R 3-C7,R 5-A4,R 5-B4,R	
	ENSLAVE H	10-C5,L 10-D4,R	2-A8,R 11-D3,L	PADR 7 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R		6-A2,R 6-B2,R 7-C2,R 7-C5,R 8-A6,R 11-B1,L	
	ERROR L	4-A8,R 5-B7,R 5-C5,L	DLY UPROC H	PADR 8 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R		3-D3,D 3-D3,D 4-A4,R 4-A7,R 4-B4,R 4-B7,R	
	EXEC ON FALSE H	2-B6,R 5-A3,L	DTEST L	PADR 9 H	5-B3,R 5-D2,R 5-D4,L 6-A5,R 6-B8,R 6-C8,R	SA.CNTR 00 H	4-C3,R 4-C7,R 11-B1,L	
	EXEC ON TRUE H	2-B6,R 5-A4,L 5-A8,R	ECC RDY H	PASS H	3-D3,L	SA.CNTR 01 H	3-C2,L	
	EXECUTE H	2-B5,L 8-B3,L	ENA HI LTRL L	PASS TEST H	2-B6,R 3-D2,L 4-C5,R 4-D8,R 8-B4,R	SA.CNTR 02 H	3-C2,L 10-B6,R	
	EXT.FAIL H	2-A8,R 8-C2,L	ENA LO LTRL L	PASS TEST L	2-B6,R 3-D2,L 5-B7,R	SA.CNTR 03 H	3-C2,L	
	EXT.HALT L	2-C8,R 5-C7,R 8-B3,L	ENB PAR L	PR 28 H	5-B8,R 7-B4,L	SA.CNTR 04 H	3-B2,L	
	EXT.RST L	2-C7,R 8-B4,R	ENBL DPROC H	PR 29 H	5-B8,R 7-A4,L	SA.CNTR 05 H	3-B2,L	
	EXT.STOP L	2-C7,R 8-C3,L	ENBL UPROC H	PR 30 H	5-B8,R 7-A4,L	SA.CNTR 06 H	3-B2,L	
	F=ZERO H	1-D3,L 3-C7,R	ENSLAVE H	PR 31 H	5-B8,R 7-A4,L	SA.CNTR 07 H	3-B2,L	
	FAIL L	2-A6,L 4-C5,R 4-D8,R 5-C7,R	ERROR L	PROBE 1 H	8-B2,L 8-D3,R	SA.CNTR 08 H	3-B2,L	
	G2 L	1-C2,R 1-C6,L	EXEC ON FALSE H	PROCCLK L	1-B3,R 1-B4,R 1-B6,R 1-B8,R 2-A6,R 2-B2,R	SA.CNTR 09 H	3-B2,L	
	GND	2-B3,R 2-C3,R 7-A3,R 7-A5,R 7-A6,R 7-A8,R	EXEC ON TRUE H	PROMENBL H	5-B3,R 5-C3,R 6-A5,R 6-A8,R 6-C4,R 6-C8,R	SA.CNTR 10 H	3-B2,L	
B		8-B4,R 8-C4,R 9-A5,R 9-A6,R 9-A8,R 9-B8,R 9-C5,R 9-C6,R	EXECUTE H	PURGED L	3-D6,R 10-D3,L	SA.CNTR 11 H	3-B2,L	
		9-C7,R 11-A3,R <AC2> 11-A3,R <AT1> 11-A3,R <BC2>	EXT.FAIL H	Q7 H	1-C4,R 1-C6,L	SA.CNTR 12 H	3-A2,L	
		11-A3,R <BT1> 11-A3,R <CC2> 11-A3,R <CT1> 11-A3,R <DC2>	EXT.HALT L	R/W UBDATA L	2-A5,L 10-A7,R	SA.CNTR 13 H	3-A2,L	
		11-A3,R <DT1> 11-A3,R <EC2> 11-A3,R <ET1> 11-A3,R <FC2>	EXT.RST L	RAM 15 H	6-A3,R 7-B2,L	SA.CNTR 14 H	3-A2,L	
			EXT.STOP L	RAM 7 H	1-C4,R 1-C6,L	SA.CNTR 15 H	3-A2,L 11-A2,R	
			F=ZERO H	RAM PE L	3-B6,R 5-B5,R 11-A7,L	SCAN L	3-D6,R 10-D3,L	
			FAIL L	RAM PE1 L	5-B4,L 5-D7,R	SEL LITERAL L	1-A2,R 1-A5,R 1-A8,R 7-C4,L	
			G2 L	RD B50 L	2-D2,L 8-D2,L	SENSE H	5-C8,R 6-C6,L	
			GND	RD BUFFER L	2-D2,L 11-B8,R	SEQ ADR 00 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A3,L	
			I/O CLR L	RD CNST L	2-D2,L 8-A6,R	SEQ ADR 01 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A4,R	
			INTR H	RD ECC RSDU L	2-D2,L 11-B8,R	SEQ ADR 02 H	4-D1,L 4-D5,L 5-D4,R 5-D5,L 8-A3,L	
			INTR L	RD RTDS L	2-D1,L 11-C8,L	SEQ ADR 03 H	4-C1,L 4-D5,L 5-D4,R 5-D5,L 8-A4,R	
			INTRPTMSTR L	RD SERDES L	2-D2,L 11-B8,R	SEQ ADR 04 H	4-C1,L 4-C5,L 5-D4,R 8-A3,L	
			IOC ENABLE H	RD SERDES L	2-D2,L 11-B8,R	SEQ ADR 05 H	4-C1,L 4-C5,L 5-C4,R 8-A4,R	
			IOC SEL 0 H	RD UBADDR L	2-A2,L 11-B8,R	SEQ ADR 06 H	4-C1,L 4-C5,L 5-C4,R 8-B3,L	
			IOC SEL 1 H	RD UBAR L	2-A2,L 11-B8,R	SEQ ADR 07 H	4-C1,L 4-C5,L 5-C4,R 8-B4,R	
			IOC SEL 2 H	RD UBADATA L	2-A2,L 2-A6,R 9-A3,R	SEQ ADR 08 H	4-B1,L 4-B5,L 5-C4,R 9-B3,L	
			JUMP OP 1 H	RD UCR L	2-A2,L 11-A5,R	SEQ ADR 09 H	4-A5,L 4-B1,L 5-C4,R 8-B4,R	
			LD B01 L			SEQ ADR 10 H	4-A1,L 4-A5,L 5-B4,R 8-B3,L	
			LD BUFFER L			SEQ ADR 11 H	4-A1,L 4-A5,L 5-B4,R 8-B4,R	
			LD DBAR L			SEQ CLK L	2-B2,R 2-C4,L 3-D3,R 4-A4,R 4-A7,R 5-C2,R	
			LD DCR L				5-C4,R 6-A2,R 6-B2,R 6-B6,R 7-A5,R 7-C2,R 7-C5,R 8-B3,L	
			LD RTCS L			SET I0G H	1-B5,R 1-B8,R 5-B8,R 6-A1,L 10-B7,R 11-C8,L	
			LD SERDES L			SSYNC EN H	10-D3,L 10-D7,R	
			LD UBADDR L			SSYNC H	10-A2,L	
			LD UBAR L			SSYNC L	3-D6,R 10-A1,L 10-B7,R 10-C2,R	
			LD UBADATA L			STOP L	2-B6,L 5-B7,R	
			LD UCR L			TEST COND 0 H	3-A6,R 7-B5,R 7-D7,L	
						TEST COND 1 H	3-A6,R 7-A5,R 7-D7,L	

REVISIONS		
CHK	CHANGE NO.	REV

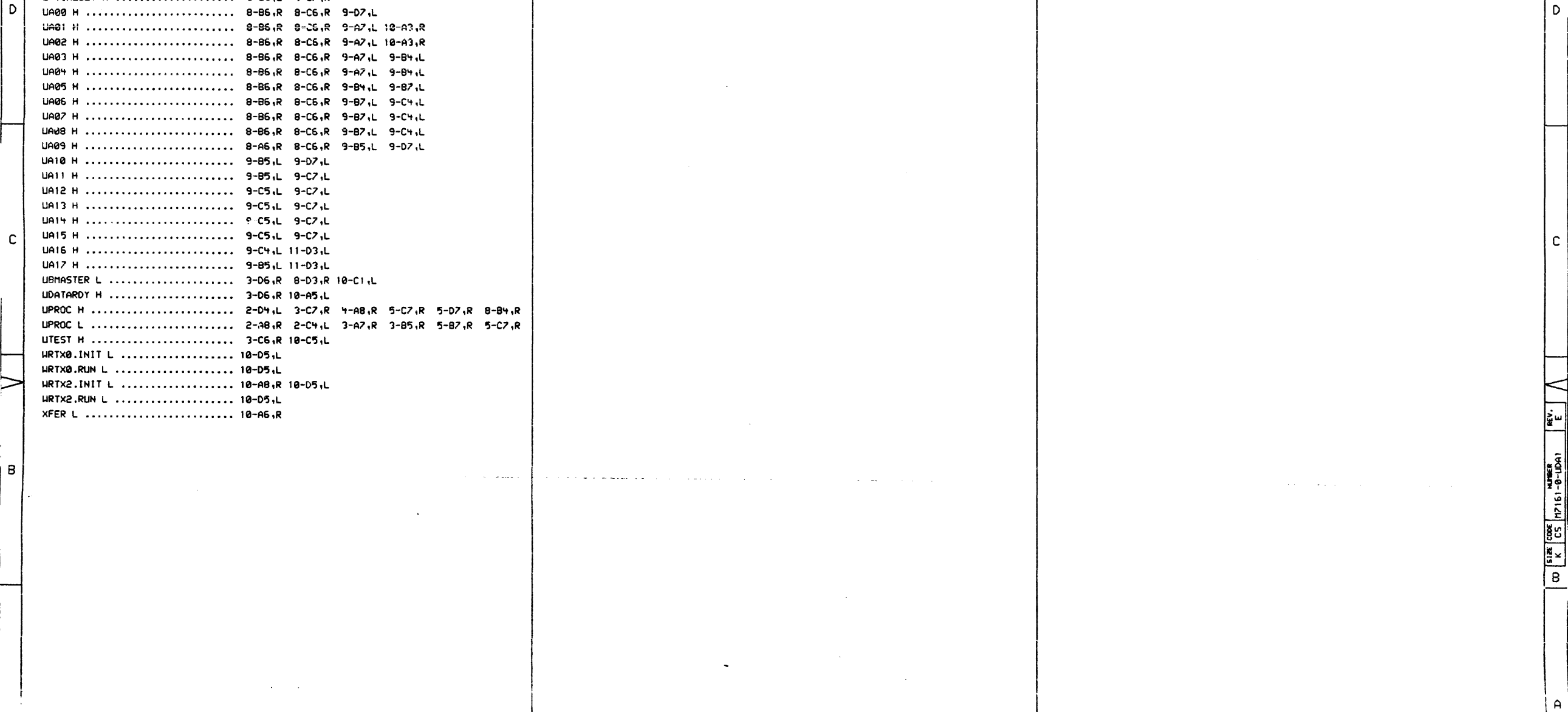
digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	20-JUL-82			
DSK:UDATE.T2PL4.501		120-JUL-82 12:56 NEXT HIGHER ASSEMBLY:		UDA # 1	
FIRST USED ON OPTION/MODEL: UDA		B-DD-M7161-0		SIZE CODE	NUMBER
				K CS	M7161-0-UDA1
				REV.	E

REV. E

A

	8	7	6	5	4	3	2	1
	TEST COND 2 H	3-A6,R	7-A5,R	7-C7,L				
	TEST COND 3 H	3-B5,R	7-A5,R	7-C7,L				
	TEST TRUE H	3-D5,R	6-B7,L					
	TIME ERR L	5-B4,R	5-C5,L					
	TIMEOUT L	5-B4,L	5-D7,R					
	TMSYN H	9-B4,L	10-A4,L					
	U TIMEOUT H	5-C5,L	5-C7,R					
D	UA00 H	8-B6,R	8-C6,R	9-D7,L				
	UA01 H	8-B6,R	8-C6,R	9-A7,L	10-A3,R			
	UA02 H	8-B6,R	8-C6,R	9-A7,L	10-A3,R			
	UA03 H	8-B6,R	8-C6,R	9-A7,L	9-B4,L			
	UA04 H	8-B6,R	8-C6,R	9-A7,L	9-B4,L			
	UA05 H	8-B6,R	8-C6,R	9-B4,L	9-B7,L			
	UA06 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA07 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA08 H	8-B6,R	8-C6,R	9-B7,L	9-C4,L			
	UA09 H	8-A6,R	8-C6,R	9-B5,L	9-D7,L			
	UA10 H	9-B5,L	9-D7,L					
	UA11 H	9-B5,L	9-C7,L					
	UA12 H	9-C5,L	9-C7,L					
	UA13 H	9-C5,L	9-C7,L					
	UA14 H	9-C5,L	9-C7,L					
C	UA15 H	9-C5,L	9-C7,L					
	UA16 H	9-C4,L	11-D3,L					
	UA17 H	9-B5,L	11-D3,L					
	UBMASTER L	3-D6,R	8-D3,R	10-C1,L				
	UDATARDY H	3-D6,R	10-A5,L					
	UPROC H	2-D4,L	3-C7,R	4-A8,R	5-C7,R	5-D7,R	8-B4,R	
	UPROC L	2-A8,R	2-C4,L	3-A7,R	3-B5,R	5-B7,R	5-C7,R	
	UTEST H	3-C6,R	10-C5,L					
	WRTX0.INIT L	10-D5,L						
	WRTX0.RUN L	10-D5,L						
	WRTX2.INIT L	10-A8,R	10-D5,L					
	WRTX2.RUN L	10-D5,L						
	XFER L	10-A6,R						

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	DSK:UDATE.72PCY.50J	120-JUL-82 12:56	NEXT HIGHER ASSEMBLY:	SIZE CODE K CS	NUMBER M2161-0-UDA1	REV. E
	FIRST USED ON OPTION/MODEL:	LDA	B-DD-M2161-0			



DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				B	C														
B-DD-M7162-0	-	M7162-00	DRAWING DIRECTORY	B	C														
K-PL-M7162-0-DBP	3		PARTSLIST DATA BASE	B	C														
D-UA-M7162-0-0	2		UNIT ASSEMBLY	B	C														
K-PC-M7162-0-DBC	-		P.C. DATA BASE	B	C														
K-CS-M7162-0-DBS	-		SUDS DATA BASE	B	C														
K-CS-M7162-0-UDA2	13		CIRCUIT SCHEMATIC	B	C														
		5014921-00	P.C. ETCH BOARD	B	C														
E-EC-5014921-0-0	3		ETCH CUT DRAWING	B	C														
D-MD-5014921-0-0	6		DRILL & ETCH DRAWING	B	C														

**NOTES:**

REVISIONS		REV.
DATE	CHG NO.	
2/24/81	UNIT	B
2/24/81	M7162-0001A	C

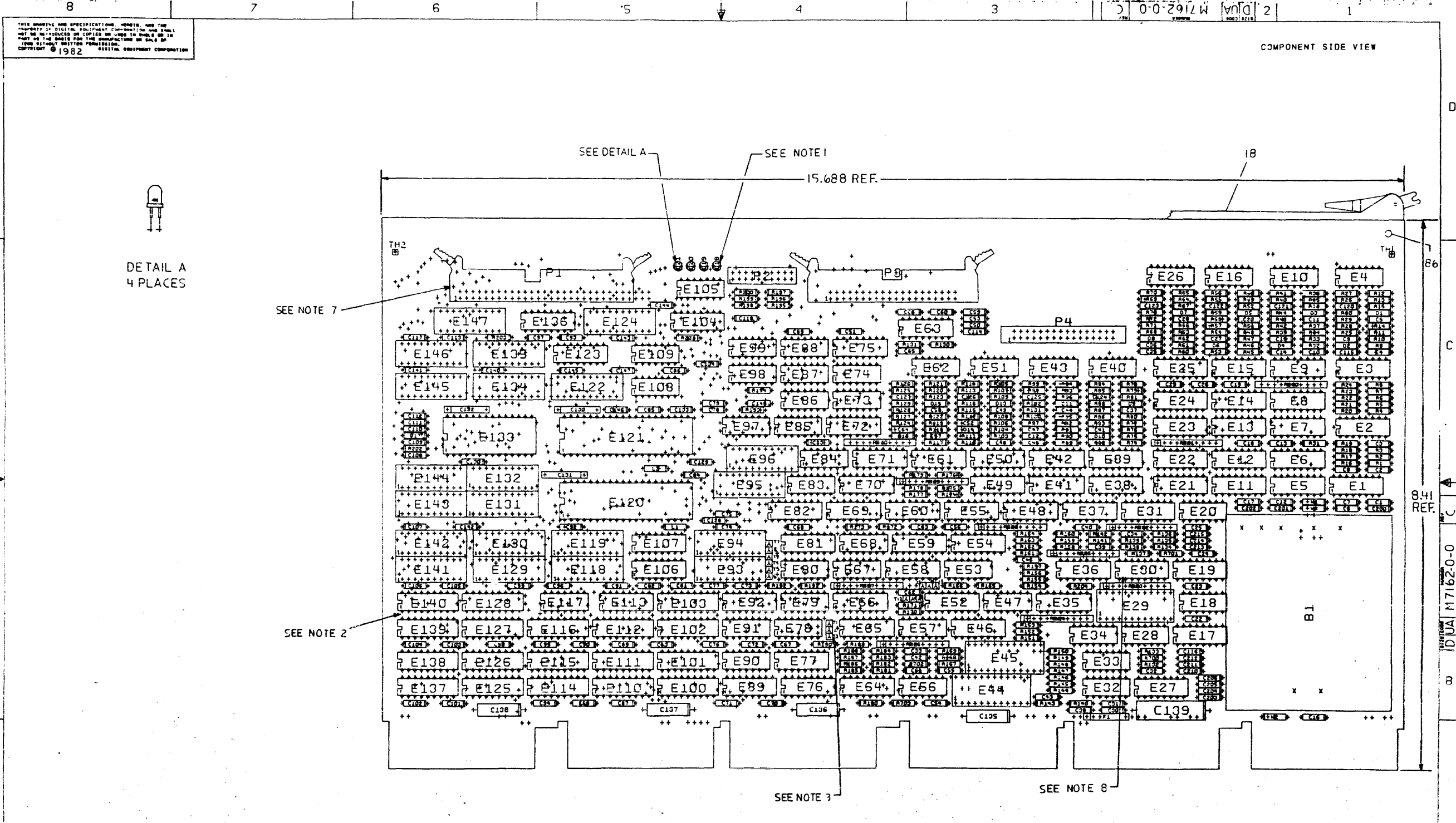
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USED ON OPTION/MODEL	DRN. S. Lehman	4-14-82	TITLE	UDA # 2
R480	CHK'D M. Sandy	20 APR 82	SIZE	B DD
	ENG. W. A. R.	3-3-82	CODE	DD
	PROD D. SWIFT (RPM)	7 SEP 82	NUMBER	M7162-0
			REV.	C
			SHEET	1 OF 1

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COMPONENT SIDE VIEW



NOTES: FOR NOTES SEE SHEET 2.

STEP	Y AXIS	NA	STEP	TIMES
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8

CHK	CHANGE	NO	REV	C
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8

ETCH	REV.	DATE
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8

SIGNATURES	DATE	TITLE
DRN. [Signature]	5-4-82	digital
CHK'D. [Signature]	5-4-82	
MECH. ENG. [Signature]	5-2-82	
PROJ. ENG. [Signature]	5-3-82	
PROD. [Signature]	7-28-82	
SCALE 1.5/1		
SHT. 1 OF 2		
NEXT HIGHER ASSY. B DD-M 7162-0		

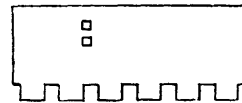
UDA # 2  
SIZE CODE NUMBER REV  
0 UJA M7162-0-0 C

100#7400240

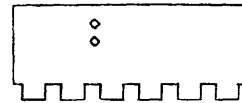
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**NOTES:**

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, E67, 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.

TITLE		DOCUMENT NUMBER	
U.D.A. NO. 2		M7162-0-0	
SCALE	SHEET	OF	
	2	2	

REV. C M7162-0-0 DUA

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
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
4	4		1013466-09	1000.0 MMF 50V 10% X7R CER	2		C6, C16
5	5		1013466-11	.22 MFD 50V +80-20% Z5U CER	3		C130, C131, C132
6	6		1015876-00	.01 MFD 50V +80-20% CER	8		C120-C127
7	7		1016549-00	.47 MFD 10V +50-10% AL EL	4		C135-C138
8	8		1104860-00	1N 746A VZ= 3.3 5%	8		D6, D2, D14, D10, D8, D4, D16, D12
9	9		1105275-00	D 672 TR= 15NS PIV= 60V SI	8		D5, D1, D13, D9, D7, D3, D15, D11
10	10		1110836-00	1N 759A VZ= 12.0 5% .40W	1		D17
11	11		1112689-00	LED .8MCD@16MA VF=5V	4		D18-D21
12	12		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1		F1
13	13		1210385-01	PIN 1POS WIRE WRAP	15		T1-T15
14	14		1212965-04	PCB, HEADER 20PIN(2X05).100CC 90D	1		P2
15	15		1214314-00	CONN, P+S 02SKT(1X02).100CC JUM	5		W4-W8
16	16		1216832-02	PCB, HEADER 40POS(2X20).100CC 90D	1		P3
17	17		1216832-03	PCB, HEADER 50POS(2X25).100CC 90D	1		P1
18	18		1216988-02	HANDLE, MODULE, HEX TWO EJECTORS	1		
19	19		1218348-00	PCB, HEADER 32PIN(2X16).100CC 90D	1		P4
20	20		1300202-00	47.0 .25 W 5.0 % CC	16		R16, R43, R29, R32, R45, R58, R61, R72, R82, R87, R89, R101, R103, R111, R110, R128
21	21		1300247-00	120.0 .25 W 5.0 % CC	16		R156, R141, R135, R187, R183, R185, R153, R150, R182, R192, R155, R170, R700, R701, R702, R703
22	22		1300271-00	220.0 .25 W 5.0 % CC	8		R52, R15, R109, R81, R67, R38, R123, R96

REVISION HISTORY		BASIC PART NO: M7162		DRW:	S. BOURBEAU	DATE:	20-JAN-81	DIGITAL	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R. MICHAUD	DATE:	20-JAN-81	PARTS LIST	
	INITIAL		SECTION VARIATION INDEX					UDA # 2	
	162-CX001	C	[A] 00	DES. ENG:	J. PULSIPHER	DATE:	20-JAN-81	DOCUMENT NUMBER	
			[B]	RESP. ENG.:	B. MATHRANI	DATE:	20-JAN-81	SIZE	CODE
			[C]					NUMBER	REV
			[D]	MPG. ENG.:	D. SWIFT	DATE:	20-JAN-81	K	PL
			[E]					M7162-0-DBP	C
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[G]	10-0A-M7162-0-0		18-DD-M7162-0		21770C-PLS	21
			[H]						

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AUTOMATED BY PRTLIST.3P(44)

PARTS LIST

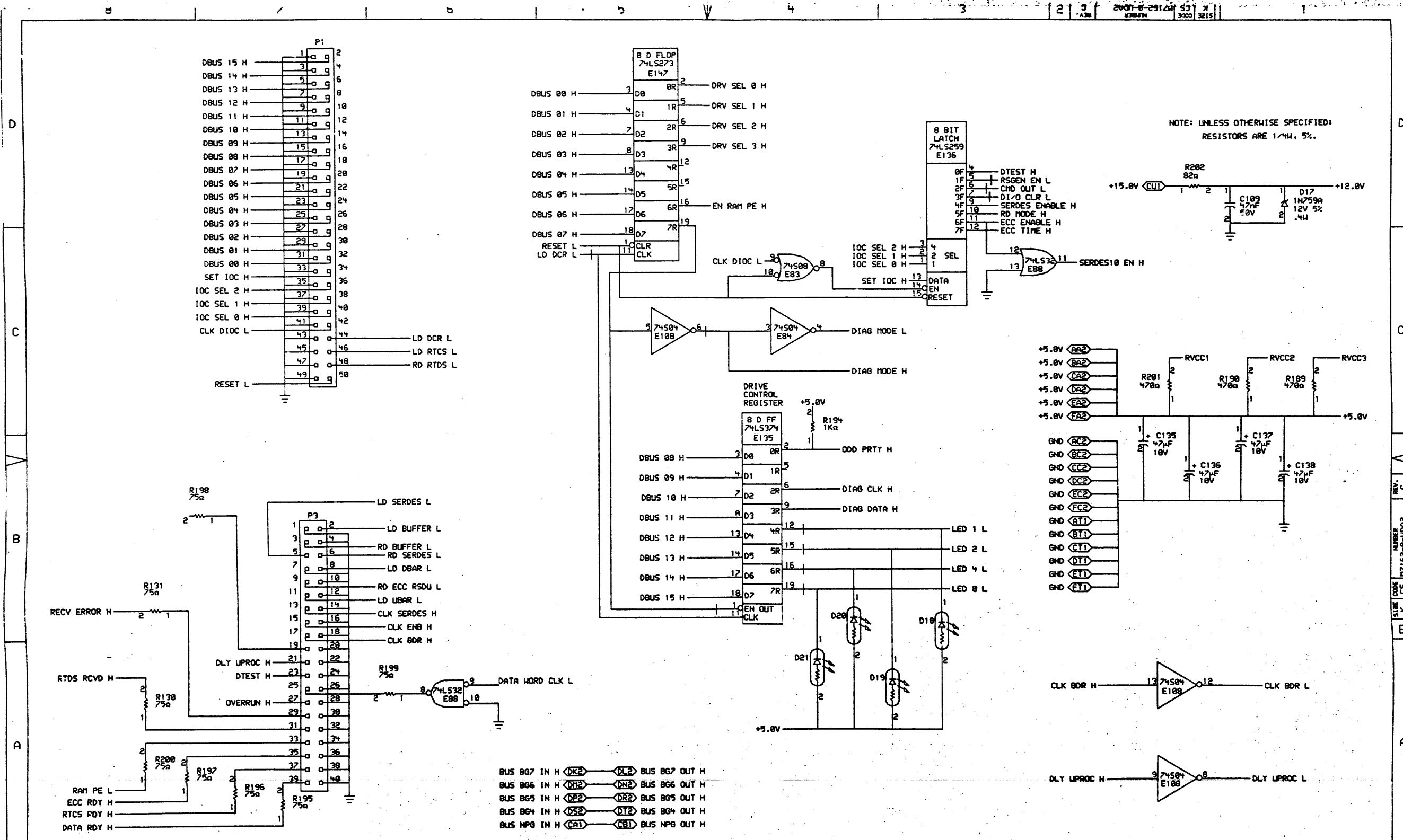
SHEET A2 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
23	23	1300316-00	470.0 .25 W 5.0 % CC	12		R201,R190,R189,R6,R21,R174,R173, CONT. R1,R7,R8,R176,R175
24	24	1300365-00	1.0 K .25 W 5.0 % CC	1		R194
25	25	1300432-00	3.0 K .25 W 5.0 % CC	1		R203
26	26	1300479-00	10.0 K .25 W 5.0 % CC	1		R193
27	27	1301477-00	32.0 .25 W 5.0 % CC	5		R202,R3,R20,R19,R18
28	28	1302379-00	75.0 .25 W 5.0 % CC	8		R131,R130,R198,R199,R200,R197, CONT. R196,R195
29	29	1302873-00	261.0 .25 W 1.0 % RN55D-F10	8		R132,R204,R147,R144,R148,R149, CONT. R165,R140
30	30	1302887-00	130.0 .25 W 1.0 % RN55D-F10	4		R2,R4,R17,R31
31	31	1303036-00	56.20 .25 W 1.0 % RN55D-F10	32		R56,R50,R55,R49,R27,R13,R26,R12, CONT. R114,R107,R113,R105,R85,R79,R84, CONT. R78,R70,R65,R69,R64,R41,R36,R40, CONT. R35,R126,R121,R125,R120,R99,R94, CONT. R98,R93
32	32	1304863-00	316.0 .25 W 1.0 % RN55D-F10	32		R57,R51,R54,R48,R28,R14,R25,R11, CONT. R115,R108,R112,R106,R06,R80,R83, CONT. R77,R71,R66,R68,R63,R42,R37,R39, CONT. R34,R127,R122,R124,R119,R100, CONT. R95,R97,R92
33	33	1311522-00	200.0 .25 W 5.0 % CC	16		R157,R136,R139,R188,R186,R184, CONT. R152,R131,R151,R154,R171,R191, CONT. R133,R137,R167,R180
34	34	1312114-01	R NETWORK 8-470 5.0 % 10PIN	11		R300-R310
35	35	1312929-00	62.0 .25 W 5.0 % CC	8		R47,R10,R104,R76,R62,R33,R118, CONT. R91
36	36	1318341-01	162.0 .25 W 1.0 % RN55D-F10	8		R169,R168,R143,R166,R134,R138, CONT. R146,R145
37	37	1318341-02	187.0 .25 W 1.0 % RN55D-F100	16		R44,R46,R30,R9,R73,R60,R59,R53, CONT. R102,R90,R88,R74,R129,R117,R115, CONT. R75
38	38	1617533-00	DELAY= 250NS,STAPS 14PIN DIP	1		E97
39	39	1618336-00	DELAY= 10NS	4		E28,E57,E34,E56
40	40	1618337-00	DELAY= 18NS	2		E53,E33
41	41	1618343-00	PULSE XFMR,RATIO 1:1:1, 800H	8		E4,E16,E40,E51,E10,E26,E43,E62
42	42	1618345-00	DELAY= 14NS	2		E47,E32
43	43	1910534-00	74S04 INVERTER GATE-HEX 11	2		E108,E94
44	44	1910544-00	74S74 FF-D DUAL,EDGE TRIGG	6		E99,E85,E98,E79,E90,E105
45	45	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1		E76
46	46	1910956-00	74S151 MUX 1 OF 8	1		E69
47	47	1910957-00	74S175 FF-D QUAD COMMON CLO	2		E81,E92
48	48	1911399-00	10102 NOR GATE,QUAD 2IN	4		E8,E23,E49,E70
49	49	1911401-00	10104 AND GATE,QUAD 2IN	1		E31
50	50	1911404-00	10107 XOR/NOR GATE,3-2IN	1		E35
51	51	1911414-00	10124 TTL TO ECL TRNSLTR	3		E60,E59,E65
52	52	1911415-01	10125 ECL TO TTL TRANSLATE	2		E66,E58
53	53	1911420-00	10174 DUAL 4 TO 1 MUX	2		E36,E46

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

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
54	54		1911573-00	74S280 PARITY GEN/CHKR,9BIT	2		E91,E117
55	55		1911712-00	74S51 AND-OR GATE-INVERT D	2		E74,E73
56	56		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1		E80
57	57		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1		E83
58	58		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1		E87
59	59		1912801-00	LS02 NOR-GATE-QUAD 2IN	1		E109
60	60		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1		E88
61	61		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1		E86
62	62		1912832-00	LS109 FF-JK DUAL,POS EDGE	1		E75
63	63		1912847-00	LS157 MUX 1 OF 2 (QUAD)	1		E113
64	64		1912848-00	LS158 MUX 1 OF 2 (QUAD)	1		E104
65	65		1912853-00	LS175 FF-D QUAD	1		E123
66	66		1912860-00	LS259 LATCH 8BIT	1		E136
67	67		1912863-00	LS273 FF-D OCTAL W/CLEAR	3		E147,E94,E95
68	68		1912864-00	LS279 LATCH,QUAD-S-R	1		E72
69	69		1913340-00	74S32 OR GATE-QUAD 2IN	2		E78,E67
70	70		1913493-01	74S241J OCTAL BUFFER,TRI-STA	4		E131,E132,E143,E144
71	71		1913671-00	74S374 FF-D OCTAL TRISTATE	4		E141,E129,E142,E130
72	72		1913939-00	LS191 COUNTER,SYNCHR. UP/D	2		E106,E107
73	73		1914082-01	74S163 COUNTER,SYNCH,UP/DOW	2		E77,E82
74	74		1914214-00	LS374 FF-D OCTAL EDGE TRIG	6		E135,E134,E145,E118,E119,E93
75	75		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2		E96,E122
76	76		1916574-00	10114 RECEIVER,LINE,TRIPL	8		E15,E71,E3,E38,E25,E55,E9,E41
77	77		1917043-00	DC 018 SERIALIZER-DESERIALIZ	2		E120,E121
78	78		1917277-00	100131 FF-D TRIPLE	1		E44
79	79		1917289-00	100102 OR/NOR GATE,QUINT,2	2		E45,E29
80	80		1917839-00	10192 LINE DRIVER,QUAD DIF	8		E2,E14,E42,E61,E7,E13,E39,E50
81	81		1917956-00	74LS280N PARITY GEN/CHK,9BIT	1		E68
82	82		1918352-00	PS 4317 DC-DC CONVERTER	1		B1
83	83		1918353-00	10231 FF-D MASTER-SLAVE	6		E30,E52,E64,E37,E48,E54
84	84		2115102-00	DEC DC309 NMOS CUSTOM LSI FOR	1		E133
85	85		2117498-02	6147P RAM,4KX1,STATIC,55NS	18		E101,E110,E114,E140,E139,E138, CONT E137,E111,E115,E100,E128,E127, CONT E126,E125,E102,E103,E116,E112
86	86		9000024-01	EYELET,ROLLED 0.1210DX0.192	12		
87	87		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3		W1-W3
88	88		1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2		L1,L2
89	89		9105740-55	*** THIS ITEM IS NOT USED ***	-		
90	90		9009157-00	*** THIS ITEM IS NOT USED ***	-		
91	91		4901259-00	*** THIS ITEM IS NOT USED ***	-		
92	92		9107256-11	*** THIS ITEM IS NOT USED ***	-		
93	93		1001796-00	50 MFD 25V +75-10% AL EL	1		C139

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



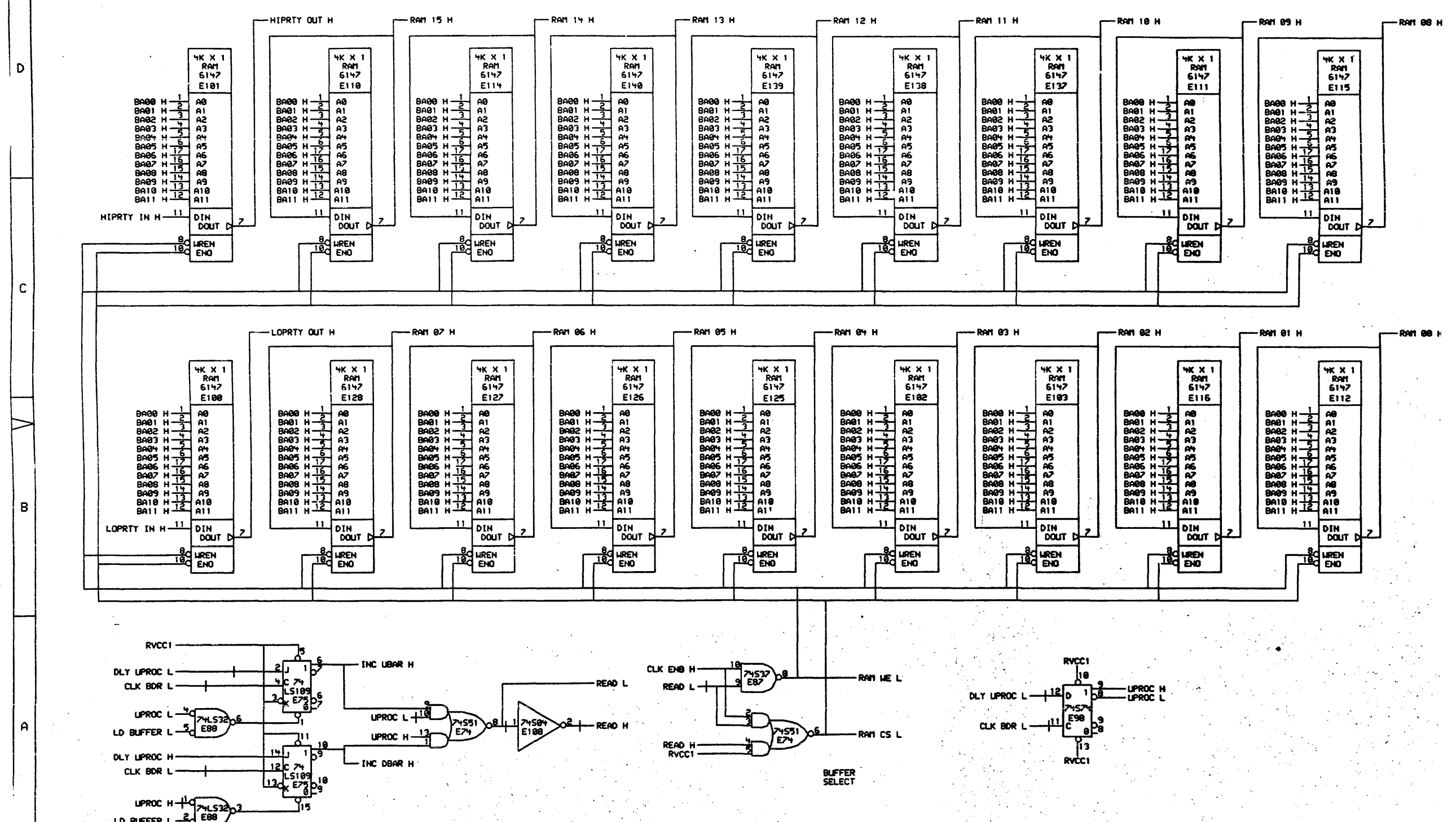
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REV	CHANGE NO.	CHK	DESCRIPTION
1			INITIAL DESIGN
2			REVISED TO ADD PULSIFER
3			REVISED TO ADD PULSIFER

REV	CHANGE NO.	CHK	DESCRIPTION
1			INITIAL DESIGN
2			REVISED TO ADD PULSIFER
3			REVISED TO ADD PULSIFER

DATE	ENG.	DATE	TITLE:
14-SEP-82	CS	16	UDA # 2
DATE	BOARD LOCATION:	REV.	
14-SEP-82	DE 16	C	
PSI (DOUGHERTY) UDA2L.DWG 14-SEP-82 17139	NEXT HIGHER ASSEMBLY:	SIZE	CODE
FIRST USED ON OPTION MODEL: UDA	B-DD-M7162-0	K	CS
		NUMBER	REV.
		M7162-0-UDA2	C

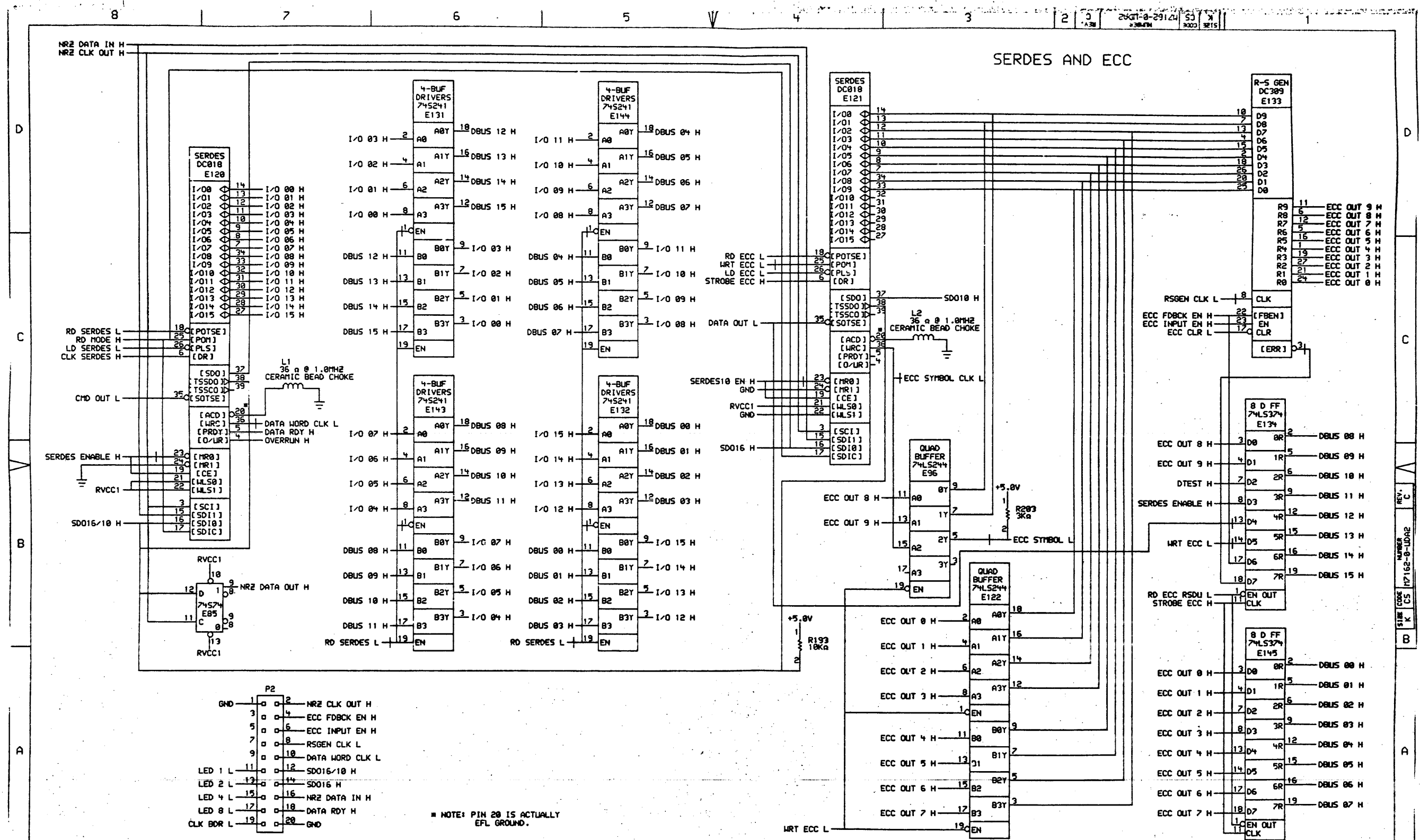
BUFFER MEMORY



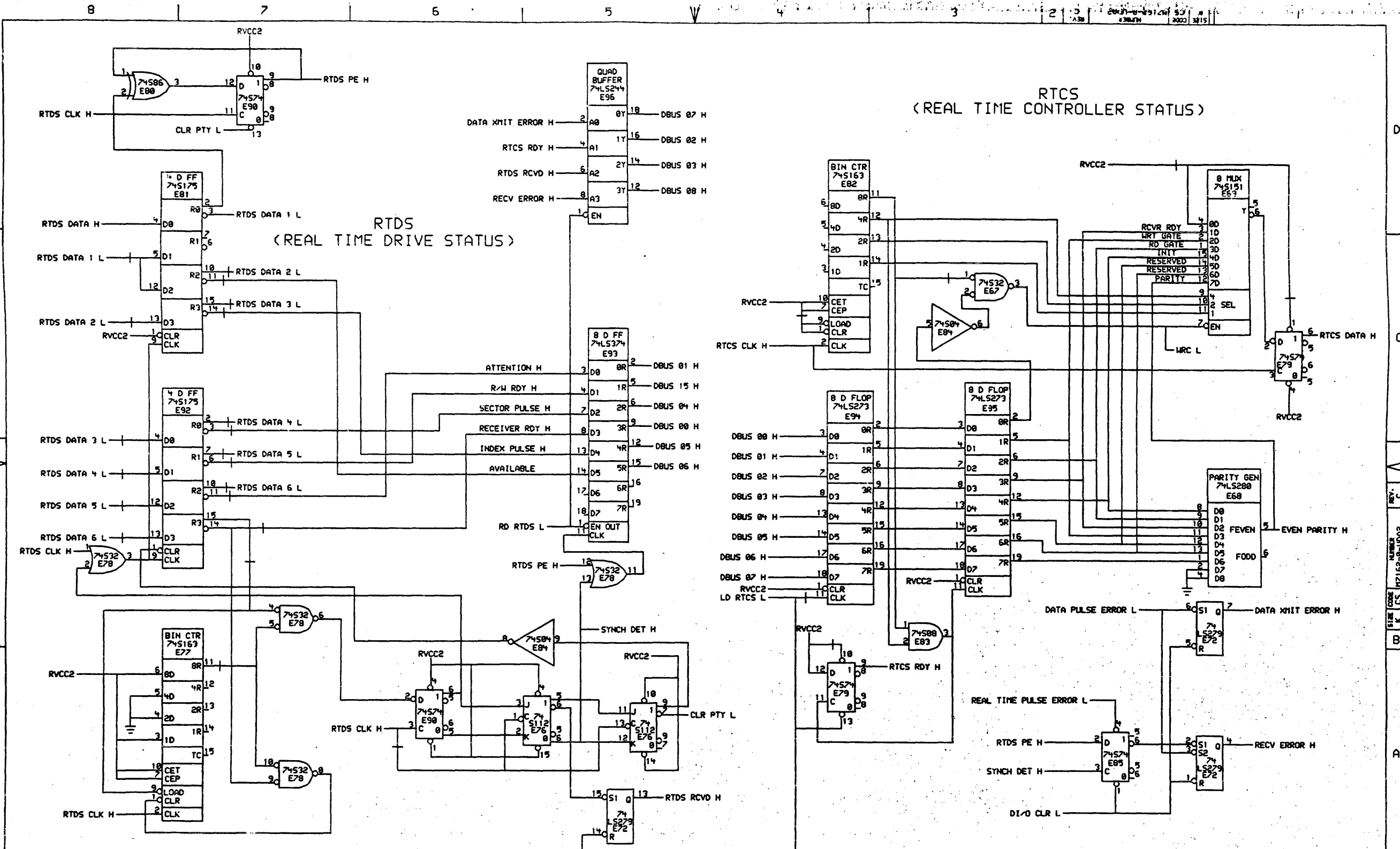
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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION	SHEET	OF 16
FIRST USED ON OPTION MODEL: UDA					NUMBER
NEXT HIGHER ASSEMBLY: B-DD-M7162-0					UDA # 2
SIZE CODE					K CS M7162-0-LDA2



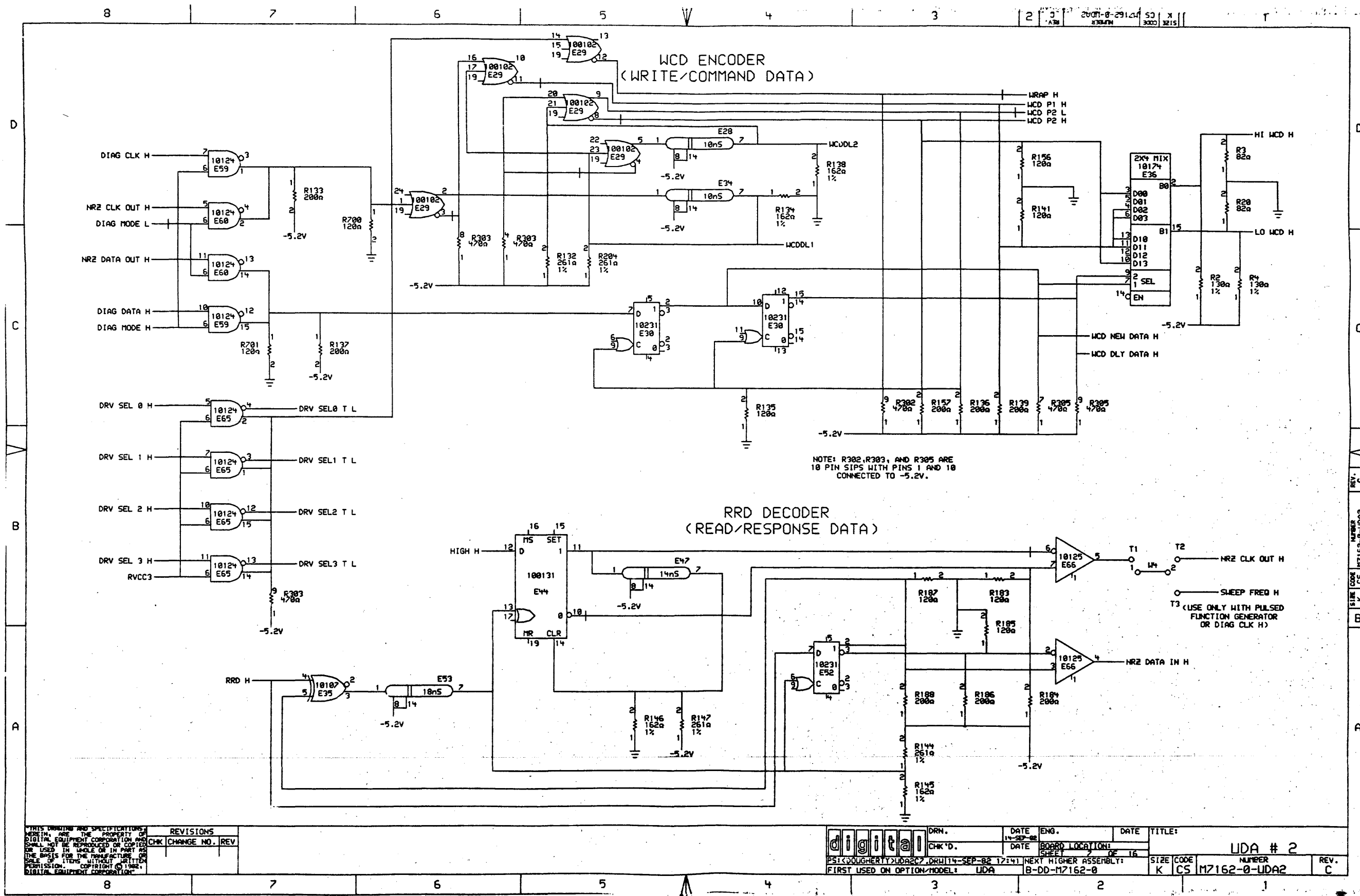
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REV.	NO.	DATE	BY	CHK	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	DATE	BOBBO LOCATION:	SHEET	OF
PSI DOUGHERTY/LDA2CS.DRN 14-SEP-82 12:48	14-SEP-82	B-D-00-M7162-0	16	LDA # 2
FIRST USED ON OPTION MODEL: LDA	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
		K CS M7162-0-LDA2		C



NOTE: R302, R303, AND R305 ARE 18 PIN SIPS WITH PINS 1 AND 18 CONNECTED TO -5.2V.

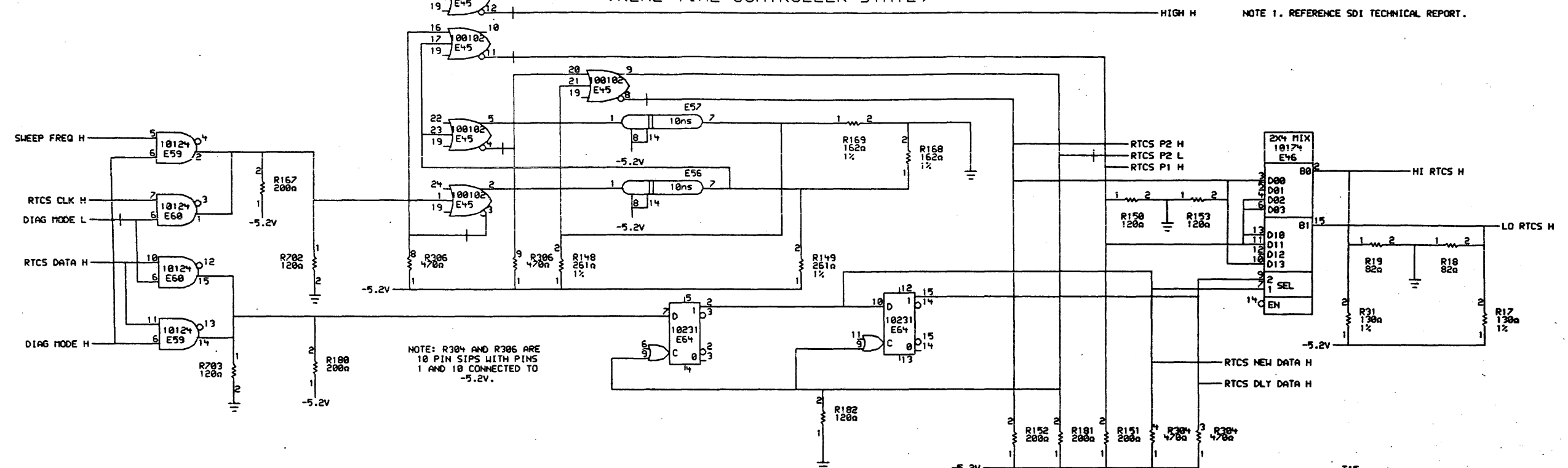
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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	DATE	BOARD LOCATION:		
PS1000HERTY\UDA2C7.DRW114-SEP-82 17:41		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: LDA		B-DD-M7162-0		K CS	M7162-0-UDA2
					REV. C

LDA # 2

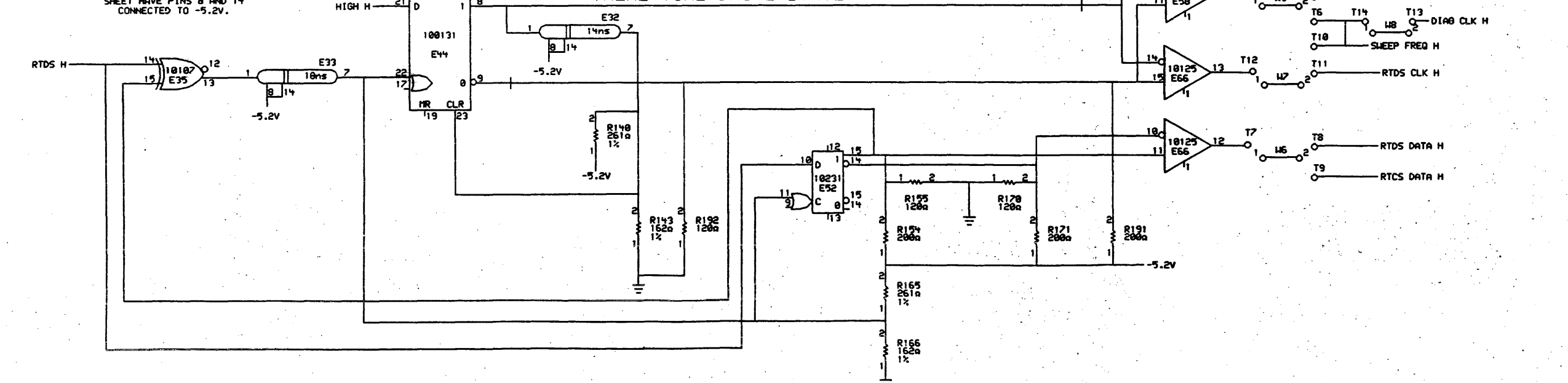
### RTCS ENCODER (REAL TIME CONTROLLER STATE)



NOTE: R304 AND R306 ARE 18 PIN SIPS WITH PINS 1 AND 18 CONNECTED TO -5.2V.

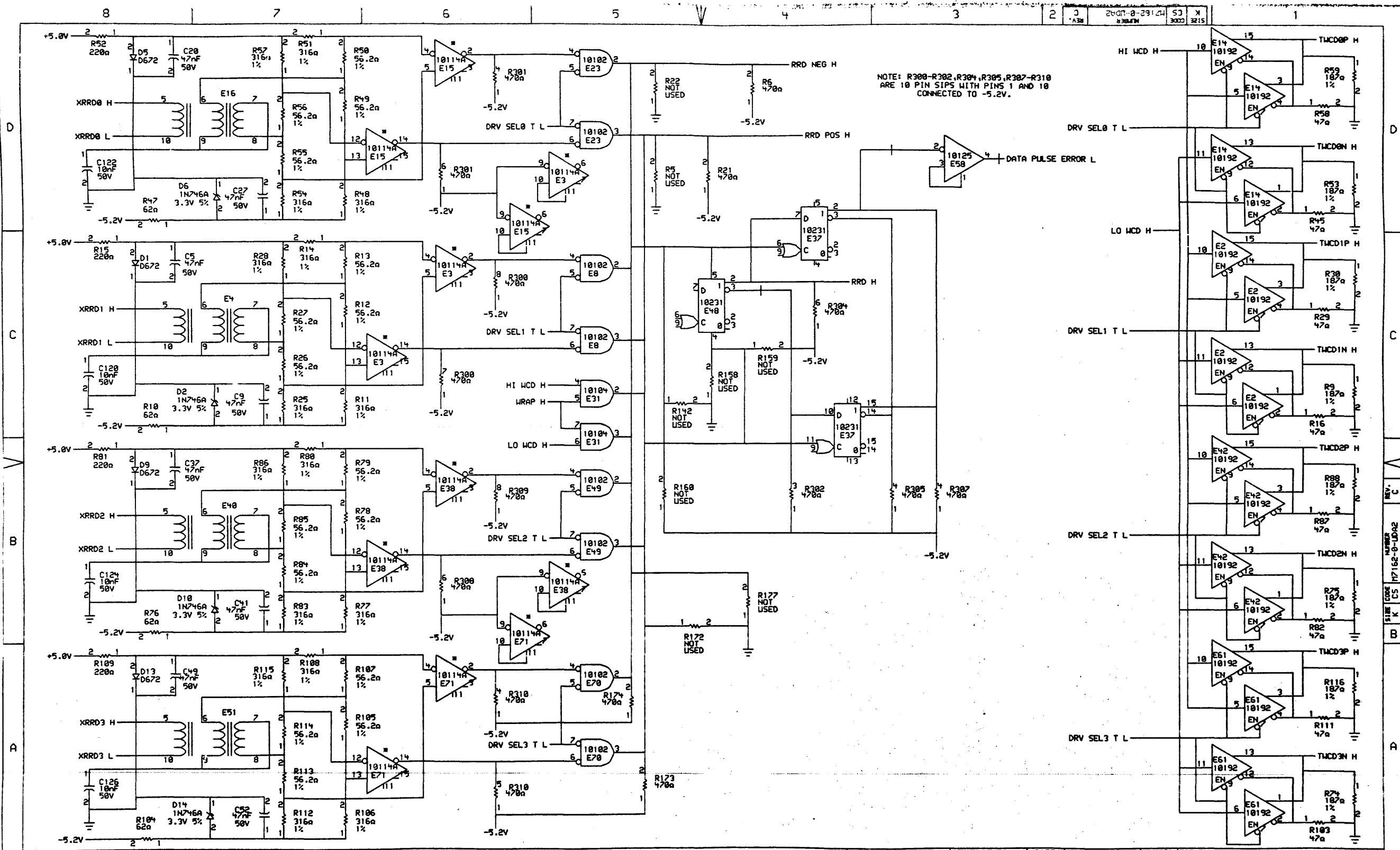
NOTE: ALL DELAY LINES ON THIS SHEET HAVE PINS 8 AND 14 CONNECTED TO -5.2V.

### RTDS DECODER (REAL TIME DRIVE STATE)



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	PS1CDOLGHERTY\LUDA2CS.DRW\14-SEP-82 17:41 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION/MODEL: LUDA 18-DD-M7162-0	SIZE CODE NUMBER REV. K CS M7162-0-LUDA2 C	





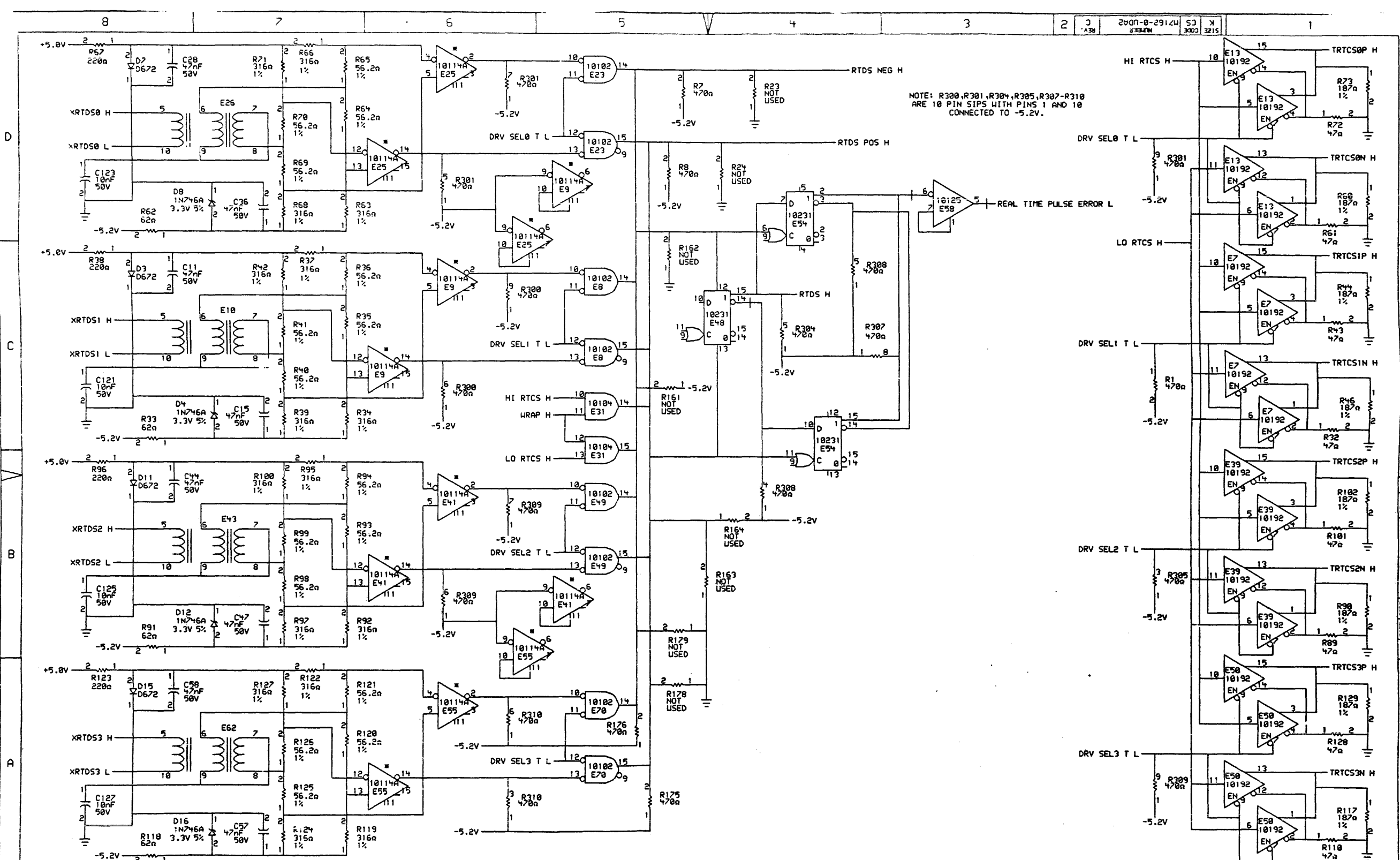
NOTE: R300-R302, R304, R305, R307-R310 ARE 10 PIN SIPS WITH PINS 1 AND 10 CONNECTED TO -5.2V.

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REVISIONS		
CHK	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	DATE	BOARD LOCATION:	SHEET 9 OF 16	UDA # 2
PSI<DOUGHERTY>UDA2C9.DRW 114-SEP-82 12:42 NEXT HIGHER ASSEMBLY:		B-DD-M7162-0		REV. C
FIRST USED ON OPTION MODEL: UDA				

SIZE CODE	NUMBER	REV.
K CS M7162-0-UDA2		C



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

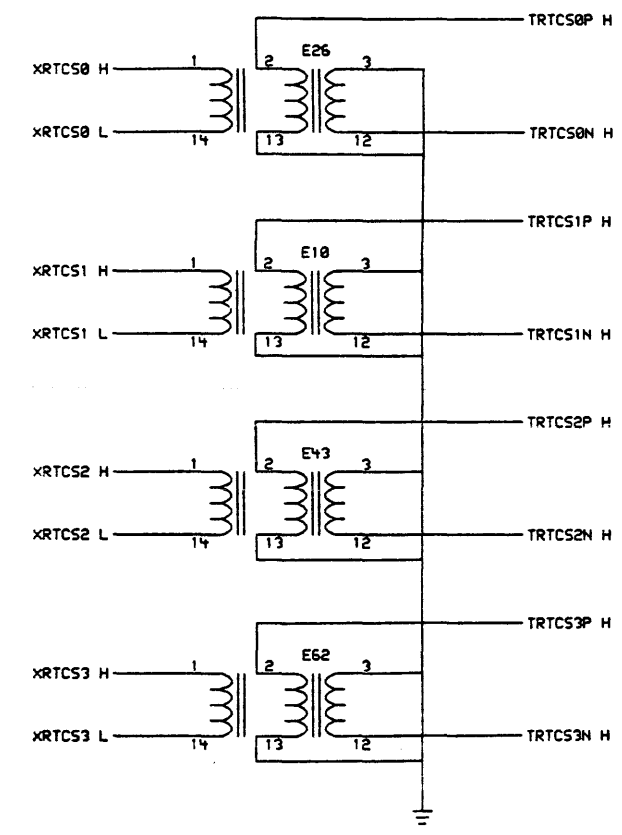
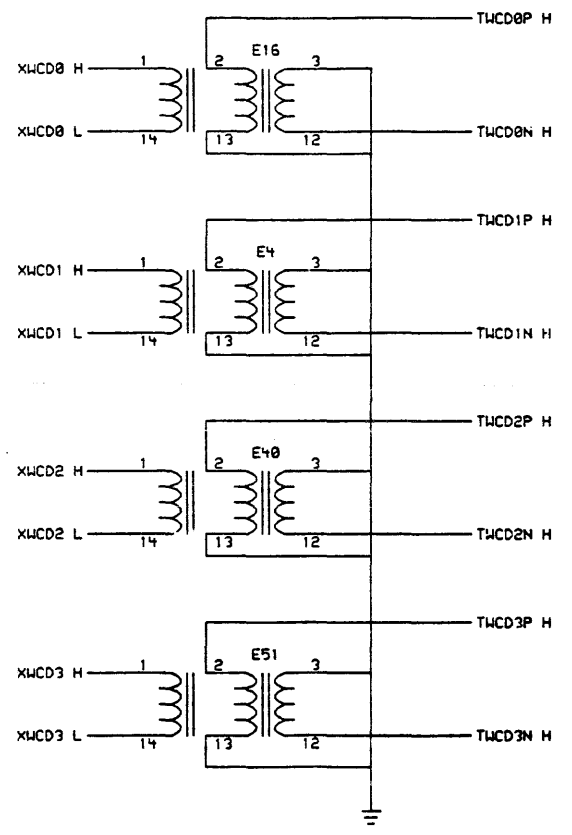
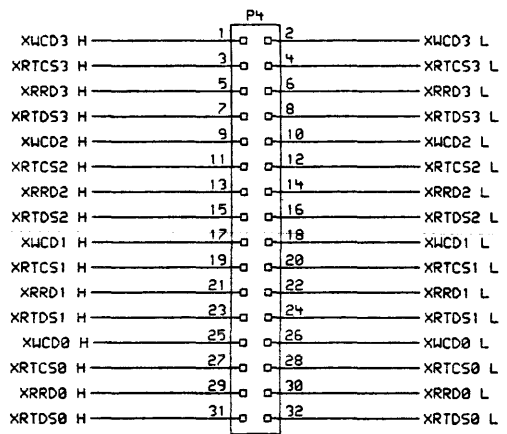
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REV.	CHK	CHANGE NO.	REV.

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	14-SEP-82			
PS1(DOUGHERTY)UDA2CA.DRW(14-SEP-82 17:42)	SHEET	BOARD LOCATION:		UDA # 2
FIRST USED ON OPTION/MODEL:	16			
UDA	B-DD-M7162-0			
		SIZE	CODE	NUMBER
		K	CS	M7162-0-UDA2
				REV.
				C

D  
C  
B  
A

D  
C  
B  
A

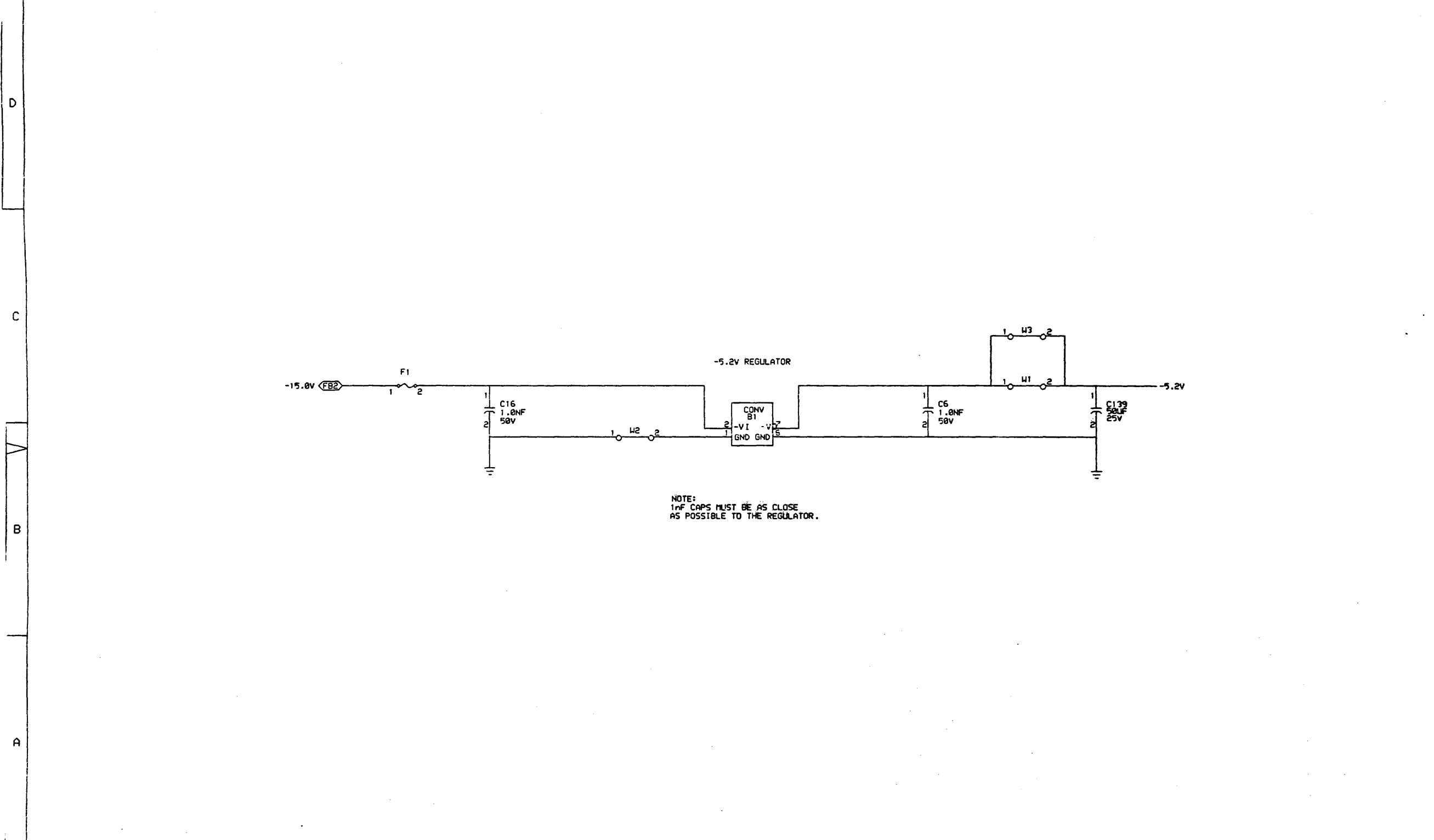


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REVISIONS	
CHK	CHANGE NO. REV

<b>digital</b>	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	14-SEP-82			UDA # 2
PS: DOUGHERTY\UDA2C3.DRW 14-SEP-82 12:43		NEXT HIGHER ASSEMBLY:		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: UDA		B-DD-M7162-0		K CS	M7162-0-LDA2
					REV. C

8 7 6 5 4 3 2 1



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

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	SIZE	CODE		NUMBER	REV.
	K	CS		M7162-0-UDA2	C

8 7 6 5 4 3 2 1

D  
C  
B  
A  
REV. C  
NUMBER M7162-0-UDA2  
SIZE CODE K CS  
D



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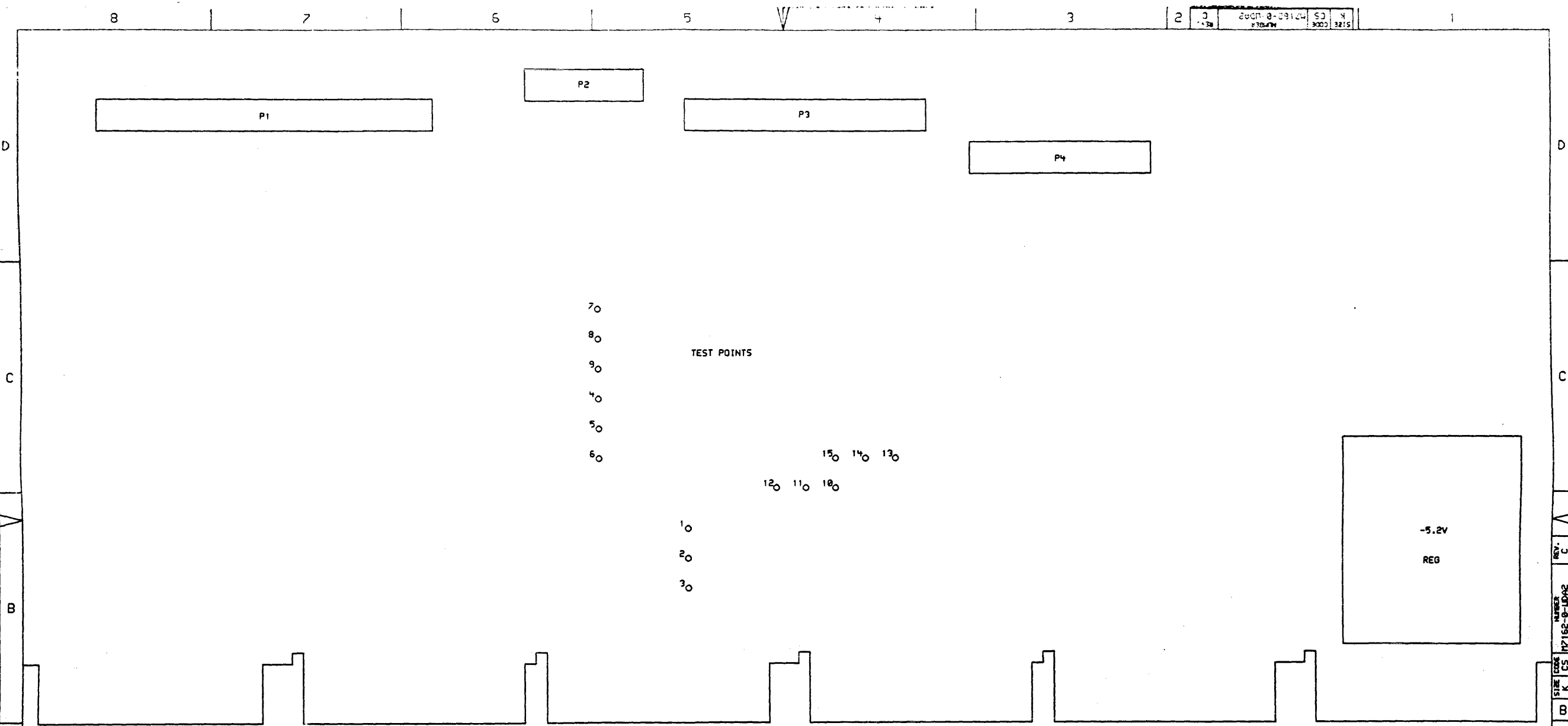
REVISIONS	
CHK	CHANGE NO. REV

digital

DRN. DATE: 11-22-82  
 ENG. BOARD LOCATION: SHEET 13 OF 16  
 CHK'D. DATE: NEXT HIGHER ASSEMBLY: B-DD-M7162-0

TITLE: LDA # 2  
 SIZE CODE: K CS  
 NUMBER: M7162-0-LDA2  
 REV: C

REV. C  
 NUMBER M7162-0-LDA2  
 CODE CS  
 SIZE K



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 14-SEP-82 ENG. DATE TITLE: LDA # 2

CHK'D. DATE BOARD LOCATION: SHEET 14 OF 16

PS: DOUGHERTY, UDARCE, DRU114-SEP-82 17:43 NEXT HIGHER ASSEMBLY: B-DD-M7162-0

FIRST USED ON OPTION/MODEL: UC: SIZE CODE NUMBER REV. K CS M7162-0-LDA2 C

REV. C  
NUMBER M7162-0-LDA2  
SIZE CODE K CS

Vertical location (A-D) Direction of line (Left, Right, Up, Down) or electrical (Input, Output, Both) or backplane pin (Pin)

KEY: Schematic Sheet Horizontal location (1-8)

+12.0V	1-D1,L	BUS BG6 IN H	1-A5,R <DM2>	DRV SEL0 T L	7-C7,L	9-D2,R	9-D5,R	10-D2,R	10-D5,R
+15.0V	1-D2,R <CU1>	BUS BG6 OUT H	1-A5,L <DN2>	DRV SEL1 T L	7-B7,L	9-C2,R	9-C5,R	10-C2,R	10-C5,R
+5.0V	1-A4,R 1-C1,L 1-C4,D 5-B3,D 5-B4,D 9-A8,R	BUS BG7 IN H	1-A5,R <DK2>	DRV SEL2 T L	7-B7,L	9-B2,R	9-B5,R	10-B2,R	10-B5,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	BUS BG7 OUT H	1-A5,L <DL2>	DRV SEL3 T L	7-B7,L	9-A2,R	9-A5,R	10-A2,R	10-A5,R
	13-C8,D 13-D8,D	BUS NPG IN H	1-A5,R <CA1>	DTEST H	1-A7,R	1-D3,L	5-B2,R		
-15.0V	1-C2,R <DA2> 1-C2,R <EA2> 1-C2,R <FA2>	BUS NPG OUT H	1-A5,L <CB1>	ECC CLR L	2-D3,L	5-C2,R			
-5.2V	12-C7,R <FB2>	CLK BDR H	1-A2,R 1-B6,L	ECC ENABLE H	1-D3,L	2-C7,R			
	7-A2,D 7-A5,D 7-B4,R 7-B7,D 7-C1,R 7-C6,R	CLK BDR L	1-A1,L 3-B6,R 4-A3,R 4-A8,R 4-A8,R 5-A7,R	ECC FDBCK EN H	2-B2,L	5-A7,L	5-C2,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	CLK DIOC L	1-C4,R 1-C7,R	ECC INPUT EN H	2-D2,L	5-A7,L	5-C2,R		
	8-C7,R 9-A6,D 9-A6,D 9-A8,R 9-B3,D 9-B6,D 9-B6,D 9-B8,R	CLK ENB H	1-B6,L 4-A5,R	ECC OUT 0 H	5-A2,R	5-B3,R	5-C1,L		
	9-C4,D 9-C6,D 9-C6,D 9-C8,R 9-D4,D 9-D4,D 9-D6,D 9-D6,D	CLK SERDES H	1-B6,L 2-A4,R 5-C8,R	ECC OUT 1 H	5-A2,R	5-B3,R	5-C1,L		
	9-D8,R 10-A2,D 10-A6,R 10-A6,R 10-A8,R 13-B2,D 10-B4,L 10-B6,D	CLR PTY L	6-A5,L 6-D7,R	ECC OUT 2 H	5-A2,R	5-A3,R	5-C1,L		
	10-B6,D 10-B8,R 10-C2,D 10-C4,D 10-C5,L 10-C6,D 10-C6,D 10-C8,R	CMD OUT L	1-D3,L 2-D7,R 5-C8,R	ECC OUT 3 H	5-A2,R	5-A3,R	5-C1,L		
	10-D2,D 10-D5,D 10-D6,D 10-D6,D 10-D8,R 12-C2,L 13-A8,D	DATA OUT L	2-C3,L 5-C4,R	ECC OUT 4 H	5-A2,R	5-A3,R	5-C1,L		
BA00 H	3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R	DATA PULSE ERROR L	6-B2,R 9-D3,L	ECC OUT 5 H	5-A2,R	5-A3,R	5-C1,L		
	4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R	DATA RDY H	1-A8,R 5-A7,L 5-C7,L	ECC OUT 6 H	5-A2,R	5-A3,R	5-C1,L		
BA01 H	3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R	DATA WORD CLK L	1-A6,L 2-D7,R 5-A7,L 5-C7,L	ECC OUT 7 H	5-A2,R	5-A3,R	5-D1,L		
	4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R	DATA XMIT ERROR H	6-B1,L 6-D5,R	ECC OUT 8 H	5-B4,R	5-C2,R	5-D1,L		
BA02 H	3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R	DBUS 00 H	1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L	ECC OUT 9 H	5-B2,R	5-B4,R	5-D1,L		
	4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R	DBUS 01 H	5-B5,R 5-C5,L 6-C4,R 6-C5,L	ECC RDY H	1-A8,R	2-B3,L			
BA03 H	3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R	DBUS 02 H	1-C7,R 1-D5,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L	ECC START H	2-C5,L				
	4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R	DBUS 03 H	1-D5,R 1-D7,R 3-C3,R 3-D5,L 3-D7,R 5-A1,L	ECC STOP H	2-B6,R	2-C5,R			
BA04 H	3-B1,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R 4-B5,R	DBUS 04 H	1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R	ECC SYMBOL CLK L	2-C6,R	5-C3,L			
	4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R 4-D4,R	DBUS 05 H	5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-C5,L	ECC SYMBOL L	5-B3,L				
BA05 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DBUS 06 H	1-D5,R 1-D7,R 3-D2,R 3-D4,R 3-D5,L 3-D7,R	ECC TIME H	1-D3,L	2-D7,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	DBUS 07 H	5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L	ECC10+2 H	2-C6,L				
BA06 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DBUS 08 H	1-D5,R 1-D7,R 3-C7,R 3-D2,R 3-D4,R 3-D5,L	ECCT16 L	2-D6,L				
	4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R	DBUS 09 H	5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L	EN RAM PE H	1-D5,L	3-A6,R			
BA07 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DBUS 10 H	1-D5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R	EVEN PARITY H	6-B1,L				
	4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R	DBUS 11 H	1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R	GND	3-A2,R 3-A3,R 3-B3,R 5-A7,L 5-A7,R 5-C4,R				
BA08 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DBUS 12 H	5-A1,L 5-C5,R 5-D5,L 6-B4,R 6-B5,L	5-C4,R 1-C2,R <AC2>	1-B2,R <AT1>	1-B2,R <BC2>			
	4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R	DBUS 13 H	1-D5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R	1-B2,R <BT1>	1-B2,R <CC2>	1-B2,R <CT1>	1-B2,R <DC2>		
BA09 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DBUS 14 H	1-B5,R 1-D7,R 3-C5,L 3-C7,R 3-D2,R 3-D4,R	1-B2,R <DT1>	1-B2,R <EC2>	1-B2,R <ET1>	1-B2,R <FC2>		
	4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-D2,R 4-D2,R 4-D3,R	DBUS 15 H	1-B5,R 1-D7,R 3-B5,L 3-B7,R 5-B1,L 5-C6,R	1-B2,R <FT1>					
BA10 H	3-D2,L 3-D3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DI/O CLR L	1-D3,L 6-A2,R	HI RTC5 H	8-D1,L	10-C5,R	10-D2,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	DIAG CLK H	1-B4,L 7-D8,R 8-B1,L	HI WCD H	7-D1,L	9-C5,R	9-D2,R		
BA11 H	3-C2,L 3-C3,L 4-B2,R 4-B2,R 4-B3,R 4-B4,R	DIAG DATA H	1-B4,L 7-C8,R	HIGH H	7-B6,R	8-B7,R	8-D3,L		
	4-B5,R 4-B5,R 4-B6,R 4-B7,R 4-B8,R 4-C2,R 4-C2,R 4-C3,R	DIAG MODE H	1-C4,L 7-C8,R 8-C8,R	HIPRTY IN H	3-A5,L	4-C8,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	DIAG MODE L	1-C4,L 7-D8,R 8-C8,R	HIPRTY OUT H	3-A7,R	4-D7,L			
BUS BG4 IN H	1-A5,R <DS2>	DLT LPROC H	1-A2,R 4-A8,R	I/O 00 H	5-C6,L	5-D6,R	5-D7,L		
BUS BG4 OUT H	1-A5,L <DT2>	DLT LPROC L	1-A1,L 4-A3,R 4-A8,R	I/O 01 H	5-C6,L	5-D6,R	5-D7,L		
BUS BG5 IN H	1-A5,R <DP2>	DRV SEL 0 H	1-D5,L 7-C8,R	I/O 02 H	5-C6,L	5-D6,R	5-D7,L		
BUS BG5 OUT H	1-A5,L <DR2>	DRV SEL 1 H	1-D5,L 7-B8,R	I/O 03 H	5-C6,L	5-D6,R	5-D7,L		
		DRV SEL 2 H	1-D5,L 7-B8,R	I/O 04 H	5-B6,L	5-B6,R	5-D7,L		
		DRV SEL 3 H	1-D5,L 7-B8,R	I/O 05 H	5-B6,L	5-B6,R	5-D7,L		

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
		15-SEP-82			UDA # 2
	CHK'D.				

	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			4-A8,R 5-A7,D 5-B7,D 5-B8,R 5-C4,R	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			6-B4,R 6-C1,D 6-C4,R 6-C8,R 6-D2,R 6-D7,D	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
	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 R5DU 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			

REVISIONS	
CHK	CHANGE NO. REV

digital DRN. DATE ENG. DATE TITLE: UDA # 2

15-SEP-82 DATE BOARD LOCATION: SHEET 16 OF 16

DSK:UDA2.T2P(4,50) 115-SEP-82 07:24 NEXT HIGHER ASSEMBLY: SIZE CODE NUMBER REV. K CS M7162-0-UDA2 C

FIRST USED ON OPTION/MODEL: UDA B-DD-M7162-0



DRAWING NUMBER  
 DIGITAL EQUIPMENT CORPORATION  
 FORT BELLEVILLE, ILLINOIS 62251  
 TELEPHONE 618/336-8000

DRAWING NUMBER  
**BDD M7485-0**


REV. J  
 NUMBER M7485-0-0  
 CODE DD  
 SIZE B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS													
				A	B	C	D	E	F	H	J						
B-DD-M7485-0-0	2		Drawing Directory	A	B	C	D	E	F	H	J						
D-UA-M7485-0-0	1		Unit Assembly	A	A	A	B	C	D	E	F						
K-PL-M7485-0-DBP	3		Parts List (23715)	A	B	C	D	E	F	H	J						
K-CS-M7485-0-1	12		Circuit Schematic	A	B	C	D	E	F	F	F						
K-CS-M7485-0-02	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-03	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-04	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-05	—		Circuit Schematic	A	B	B	B	B	—	—	—						
K-CS-M7485-0-06	—		Circuit Schematic	A	B	B	B	B	—	—	—						
K-CS-M7485-0-07	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-08	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-09	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-10	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-11	—		Circuit Schematic	A	A	A	A	A	—	—	—						
K-CS-M7485-0-12	—		Circuit Schematic	A	A	A	A	A	—	—	—						
		M7485-00	UDA PR	A	A	B	C	C	DI	DI	D2						
		M7485-YA	UDA PR (WITH PROMS)	A	B	C	D	EI	FI	HI	H2						
		5015403-01	Etched Board	A	A	A	A	A	—	—	—						
K-PC-M7485-0-DBC	—		PC Data Base	A	A	A	A	A	B	B	B						

NOTES:		REVISION HISTORY	
DATE	ECO NO.	REV.	
25 AUG 82	INIT	A	
1680	M7485- CX001	B	
1686	M7485- CX002	C	
1820	M7485- CX003	D	
1862	M7485- CX004	E	
1863	M7485- CX005	F	
	M7485- CX006	H	
	M7485- CX007	J	

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			CHK'D <i>J. Bouvier</i>	DATE 24 Aug 82			
			DES. ENG. <i>C. R. Lyman</i>	DATE 8-26-82	DOCUMENT NUMBER		
			RESP. ENG. <i>C. R. Lyman</i>	DATE 8-26-82	SIZE <b>B</b>	CODE <b>DD</b>	NUMBER M7485-0-0
			MFG. ENG. <i>Roy Bouvier</i>	DATE 8-26-82	SHEET 1 OF 2		REV. <b>J</b>

DRAWING NUMBER

BDD

DRAWING NUMBER

M7485-0

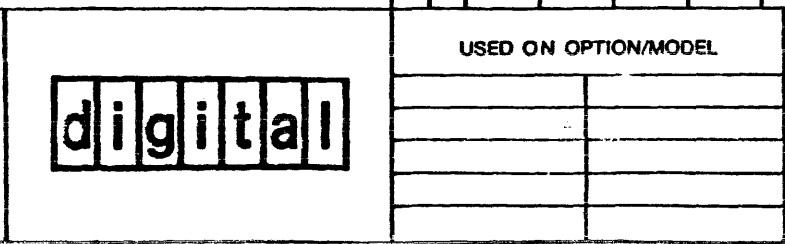
REV J	NUMBER M-7485-0-0	CODE DD	SIZE B
----------	----------------------	------------	-----------

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A	A	A	A	A	-	-									
D-MD-5015403-0-0	3		Drill and Etch Drawing	A	A	A	A	A	-	-									
E-EC-5015403-0-0	2		Etch Cut Drawing	A	A	A	A	A	-	-									
B-DD-5015403-0	1		ETCHED CIRCUIT BOARD	-	-	-	-	-	F	F									

**NOTES:**

REVISION HISTORY		DATE	ECO NO.	REV.													

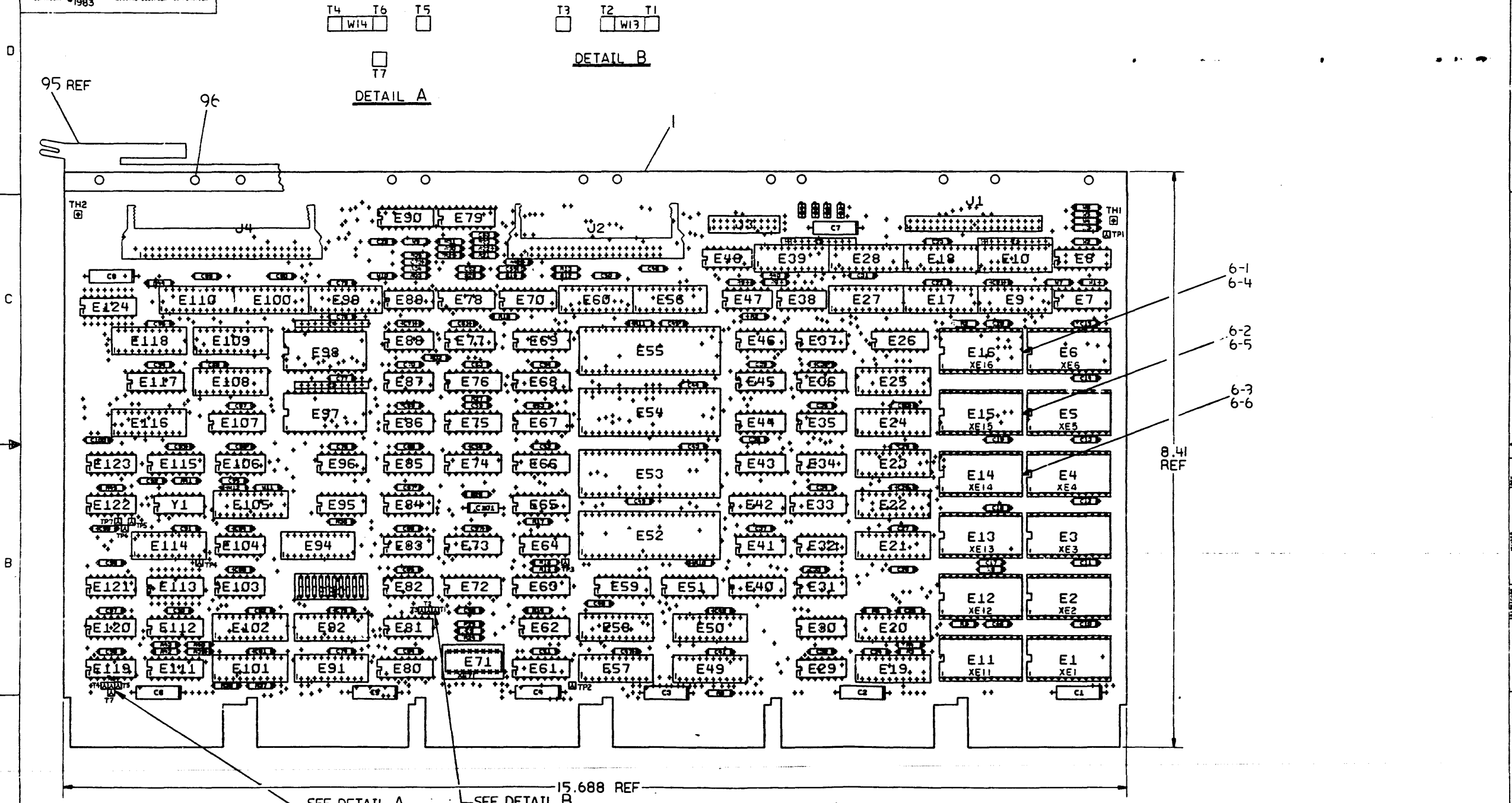
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USED ON OPTION/MODEL		DRN.	DATE	TITLE	
		CHK'D	DATE	UDA PR	
		DES. ENG.	DATE	DOCUMENT NUMBER	
		RESP. ENG.	DATE	SIZE B	CODE DD
		MFG. ENG.	DATE	NUMBER M7485-0-0	
				REV J	SHEET 2 OF 2

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COMPONENT SIDE VIEW



6-1  
6-4  
6-2  
6-5  
6-3  
6-6

8.41 REF

NOTES: 1. DO NOT INSTALL EYELET IN POSITION (ITEM 96).  
 2. DO NOT MOUNT Y1 FLUSH WITH BD. (METAL)  
 3. THE FOLLOWING ARE SPARES: E39, E94, E105, E113, E116, E124, E85, R8, R44, R45, C101, Z3, Z4, W2-W5, W7, W9-W11, TP1-TP7.

STEP	+	Y	AXIS	STEP	TIMES
REPEAT	-	X	AXIS	STEP	TIMES

CHG	NO	REV	D	E	F
1863	ECO M7485-0-0	1			
1863	ECO M7485-0-0	2			
1863	ECO M7485-0-0	3			
1863	ECO M7485-0-0	4			
1863	ECO M7485-0-0	5			
1863	ECO M7485-0-0	6			
1863	ECO M7485-0-0	7			
1863	ECO M7485-0-0	8			
1863	ECO M7485-0-0	9			
1863	ECO M7485-0-0	10			

ETCH REV. B1-PI
-----------------

SIGNATURES		DATE	digital
DRN. Eric Romberg		24 Jun 83	
CHK'D. [Signature]		12 Jul 83	TITLE
MECH. ENG. [Signature]		12 Jul 83	
PROJ. ENG. [Signature]		12 Jul 83	UDA PR
PROD. [Signature]		12 Jul 83	
SCALE: 1.5/1	SIZE	CODE	NUMBER
SHT. 1 OF 2	D	UA	M7485-0-0
NEXT HIGHER ASSY. B-DD-M7485-0-0		REV	F

DUA M7485-0-0

1 of 2

8 7 6 5 4 3 2 1

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D U A M7485-C-0 2

ECO M7485-CX006

COMPONENT DELETES: SIDE 1

- 6-1. DELETE E16 (23121F4-00) OR (23146F4-00).
- 6-2. DELETE E15 (23122F4-00) OR (23147F4-00).
- 6-3. DELETE E14 (23123F4-00) OR (23148F4-00).

COMPONENT ADDS: SIDE 1

- 6-4. ADD E16 (23184F4-00).
- 6-5. ADD E15 (23185F4-00).
- 6-6. ADD E14 (23186F4-00).

D  
C  
B  
A

D  
C  
B  
A

REV F  
NUMBER D U A M7485-C-0

DUF M7485-C-0

242

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	UDA PR	SIZE CODE	D UA	NUMBER	M7485-C-0	REV.	F
SCALE	1:1	SHEET	2 OF 2	DIST.			

8 7 6 5 4 3 2 1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
					00	YA	
					D2	H2	
1	1 B-DD-5015403-0	50-15403-01	B	DRILL & ETCH	1	1	
2	2	10-12784-00		.047 MFD 50V +80-20% CER	91	91	C10-C100
3	3	10-13466-08		680.0 MMF 50V 10% X7R CER	1	1	C9
4	4	10-16549-00		47 MFD 10V +50-10% AL EL	8	8	C1-C8
5	5	11-14136-01		LED 6.5MA 5V 1.2MCD	4	4	D1-D4
6	6	12-09838-00		SKT,IC 16PIN DIP GOLD	1	1	XE71
7	7	90-09149-00		PIN,STAKNG 0.0250DX0.345LG SQUAR	7	7	T1-T7
8	8	12-11164-06		SW,DIP 10POS/1PST 5VDC100MA F	1	1	E93
9	9	12-12965-04		PCB,HEADER 20PIN(2X05).100CC 90D	1	1	J3
10	10	12-18783-00		JUMPER 02POS(1X02).100CC	2	2	W13,W14
11	11	12-14993-00		PCB,HEADER 40POS(2X20).100CC 90D	1	1	J1
12	12	12-15006-01		*** THIS ITEM IS NOT USED ***	-	-	
13	13	12-16832-02		PCB,HEADER 40POS(2X20).100CC 90D	1	1	J2
14	14	12-16832-03		PCB,HEADER 50POS(2X25).100CC 90D	1	1	J4
15	15	13-00229-00		100.0 .25 W 5.0 % CF	8	8	R3,R5-R7,R9,R16,R27,R36
16	16	13-00316-00		470.0 .25 W 5.0 % CF	4	4	R10,R11,R17,R25
17	17	13-00365-00		1.0 K .25 W 5.0 % CF	2	2	R14,R24
18	18	13-00447-00		4.70 K .25 W 5.0 % CF	2	2	R1,R2
19	19	13-01421-00		15.0 .25 W 5.0 % CF	1	1	R41
20	20	13-01972-00		270.0 .25 W 5.0 % CF	2	2	R4,R15
21	21	13-02377-00		39.0 .25 W 5.0 % CF	7	7	R12,R19,R30-R34
22	22	13-02379-00		75.0 .25 W 5.0 % CF	6	6	R13,R18,R20,R23,R28,R29
23	23	13-05125-00		383.0 .25 W 1.0 % RN55D-F10	2	2	R38,R43
24	24	13-11422-00		178.0 .25 W 1.0 % RN55D-F10	4	4	R37,R39,R40,R42
25	25	13-12929-00		62.0 .25 W 5.0 % CF	3	3	R21,R22,R35
26	26	13-16395-00		R NETWORK 9-4.7K 2.0 % 10PIN	1	1	Z2
27	27	13-16395-02		R NETWORK 9-1.0K 2.0 % 10PIN	1	1	Z1
28	28	13-18784-01		R NETWORK MULTI-VALUE 16PIN	1	1	E71
29	29	16-17533-00		DELAY= 250NS,5TAPS 14PIN DIP	1	1	E103
30	30	16-18344-00		DELAY= 58NS,5TAPS	1	1	E88
31	31	18-11660-16		OSCILLATOR, XTAL 17.280 MHZ	1	1	Y1
32	32	19-09705-00		DEC 8881 NAND GATE-QUAD 2IN 0	1	1	E81

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A!DRN:		SHERI LEHMAN	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE:	30-JUN-83	DIGITAL	
JV	M7485-CX005	F	[A] 00, YA [M]	CHK'D:	SUE BOURBEAU	TITLE PARTS LIST	
RB	M7485-CX006	H	[B] [N]	DATE:	30-JUN-83	UDA PR	
JV	M7485-CX007	J	[C] [P]	DES.ENG:	CURT RIDGEWAY	DOCUMENT NUMBER	
			[D] [Q]	DATE:	30-JUN-83	SIZE	CODE
			[E] [R]	RESP.ENG.:	CURT RIDGEWAY	NUMBER	REV
			[F] [S]	DATE:	30-JUN-83	K	PL
			[H] [T]	MFG.ENG:	ROY BOWERS	RELEASE DATE: 28-JAN-86	
			[J] [V]	DATE:	30-JUN-83	RELEASE STATUS: RELEASED	
			[K] [W]				
			[L] [Y]				
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
M7485		D-UA-M7485-0-0		B-DD-M7485-0-0		Z3715J,PLS	
						EDIT #	
						9	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						D2	H2		
33	33		19-10532-00		74S00 NAND GATE-QUAD 2IN	2	2		E31,E44
34	34		19-10534-00		74S04 INVERTER GATE-HEX 1I	2	2		E77,E89
35	35		19-10536-00		74S10 NAND GATE-TRIPLE 3IN	1	1		E87
36	36		19-10537-00		74S11 AND GATE-TRIPLE 3INP	1	1		E43
37	37		19-10542-00		74S64 A-O-I GATE 4-2-3-2	2	2		E41,E86
38	38		19-10544-00		74S74 FF-D DUAL,EDGE TRIGG	1	1		E48
39	39		19-10545-00		74S112 FF-JK DUAL,EDGE TRIG	1	1		E115
40	40		19-10546-00		74S140 NAND GATE-DUAL 4INPU	1	1		E47
41	41		19-10548-00		74S157 MUX 1 OF 2 (QUAD)	5	5		E33,E65-E68
42	42		19-10550-00		74S174 FF-D HEX	2	2		E7,E8
43	43		19-10552-00		74S194 SHIFT REG.,4BIT RIGH	2	2		E51,E59
44	44		19-10950-00		74S74 FF-D DUAL (-45 VERSI	1	1		E38
45	45		19-11116-00	DEC	8837 RECEIVER,BUS,HEX,UNI	1	1		E61
46	46		19-14987-00		8641-2 TRANSCEIVER,UNIBUS,	1	1		E80
47	47		19-11675-00		74S138 DECODER/DEMUX 3-8 LI	3	3		E70,E79,E90
48	48		19-11676-00		74S139 DECODER-DUAL TWO-INP	2	2		E40,E78
49	49		19-11712-00		74S51 AND-OR GATE-INVERT D	1	1		E46
50	50		19-11983-00		74S133 NAND GATE-POSITIVE 1	1	1		E26
51	51		19-12097-00	SN	74S182 LOOK AND CARRY GEN	1	1		E42
52	52		19-12388-00		74S02 NOR GATE-QUAD 2IN,PO	2	2		E64,E121
53	53		19-12389-00		74S08 AND GATE-QUAD 2IN,PO	2	2		E45,E83
54	54		19-12728-00		74S251 MUX 1 OF 8 TRI-STA	4	4		E69,E74-E76
55	55		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	1		E95
56	56		19-12803-00		LS04 INVERTER GATE,HEX	2	2		E82,E104
57	57		19-12808-00		LS11 AND GATE-TRIPLE 3IN	1	1		E62
58	58		19-12820-00		LS51 A-O-I GATE 2-WIDE 2I	1	1		E96
59	59		19-12824-00		LS74 FF-D DUAL,EDGE TRIGG	1	1		E120
60	60		19-12842-00		LS138 DECODER-THREE INPUT,	1	1		E72
61	61		19-12850-00		LS164 SHIFT REG. 8BIT SERI	1	1		E119
62	62		19-12860-00		LS259 LATCH 8BIT	1	1		E63
63	63		19-12863-00		LS273 FF-D OCTAL W/CLEAR	2	2		E99,E114
64	64		19-12864-00		LS279 LATCH,QUAD-S-R	1	1		E73
65	65		19-13040-00	DC	005 TRANSCEIVER 4BIT	4	4		E91,E92,E101,E102
66	66		19-13245-02		2901A-1 MICROPRESCSOR 4-	4	4		E52-E55
67	67		19-13340-00		74S32 OR GATE-QUAD 2IN	1	1		E37
68	68		19-13414-00		LS14 INVERTER GATE-HEX SC	1	1		E84
69	69		19-13671-00		74S374 FF-D,OCTAL,TR1 STATE	3	3		E20,E22,E23
70	70		19-13939-00		LS191 COUNTER,SYNCHR. UP/D	2	2		E107,E117
71	71		19-14214-00		LS374 FF-D OCTAL EDGE TRIG	7	7		E19,E21,E24,E25,E108,E109,E118
72	72		19-14438-00	DC	013 UNIBUS INTERRUPT-BIP	2	2		E111,E112
73	73		19-14451-00		LS393 COUNTER,BINARY,4BIT	3	3		E106,E122,E123
74	74		19-15193-00		LS244 DRIVER,LINE,OCTAL,TR	2	2		E56,E60
75	75		19-15218-00		LS245 TRANSCEIVER,BUS,OCTA	2	2		E100,E110
76	76		19-15305-00	AM	2908 TRANSCEIVER,BUS,LATC	4	4		E49,E50,E57,E58
77	77		19-16680-01		2911A MICROPROGRAM SEQUENC	6	6		E9,E10,E17,E18,E27,E28
78	78		19-17956-00		LS280 PARITY GEN/CHK,9BIT,	6	6		E29,E30,E32,E34-E36
79	79		23-184F4-00	F4-01		-	1		E16
80	80		23-185F4-00	F4-01		-	1		E15
81	81		23-186F4-00	F4-01		-	1		E14
82	82		23-149F4-00	F4-01		-	1		E13

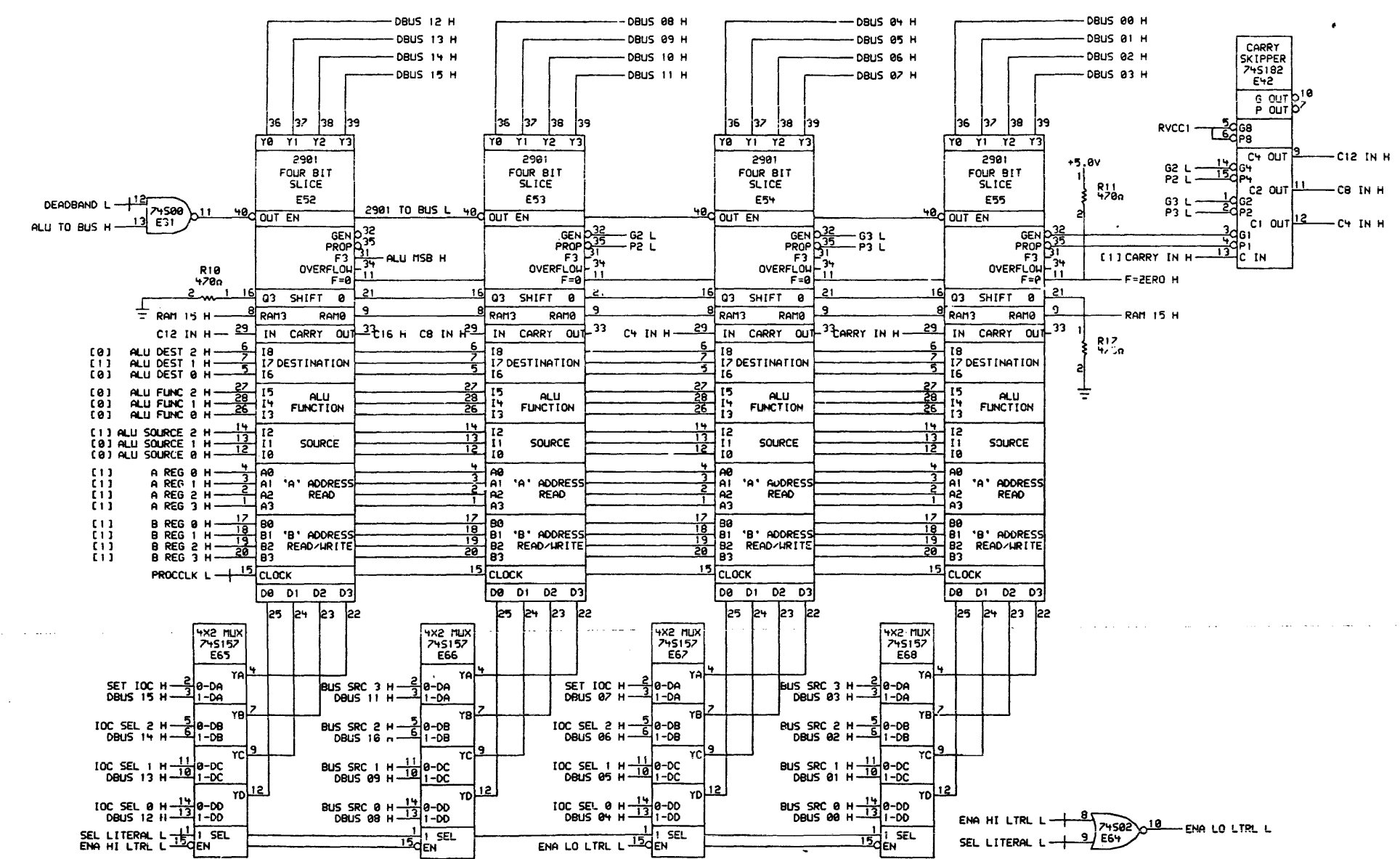
D I G I T A L										TITLE										SECTION A OF A										SIZE CODE										DOCUMENT NUMBER										REV									
										UDA PR																				K PL										M7485-0-DBP										J									

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						D2	H2		
83	83		23-150F4-00	F4-01		-	1		E12
84	84		23-151F4-00	F4-01		-	1		E11
85	85		23-152F4-00	F4-01		-	1		E6
86	86		23-153F4-00	F4-01		-	1		E5
87	87		23-154F4-00	F4-01		-	1		E4
88	88		23-155F4-00	F4-01		-	1		E3
89	89		23-156F4-00	F4-01		-	1		E2
90	90		23-157F4-00	F4-01		-	1		E1
91	91		23-13F4 -00	F4-01		1	1		E97
92	92		23-14F4 -00	F4-01		1	1		E98
93	93		90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	4	4		W1,W6,W8,W12
94	94		12-15006-06		SKT,IC 24PIN DIP TIN SOLD	12	12		XE1-XE6,XE11-XE16
95	95		12-16988-02		HANDLE,MODULE,HEX TWO EJECTORS	1	1		
96	96		90-00024-01		EYELET,ROLLED 0.1210DX0.192	11	11		
97	97		13-00417-00		2.20 K .25 W 5.0 Z CF	1	1		R26
98	98				*** THIS ITEM IS NOT USED ***	-	-		

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA PR		K	PL	M7485-0-DBP	J

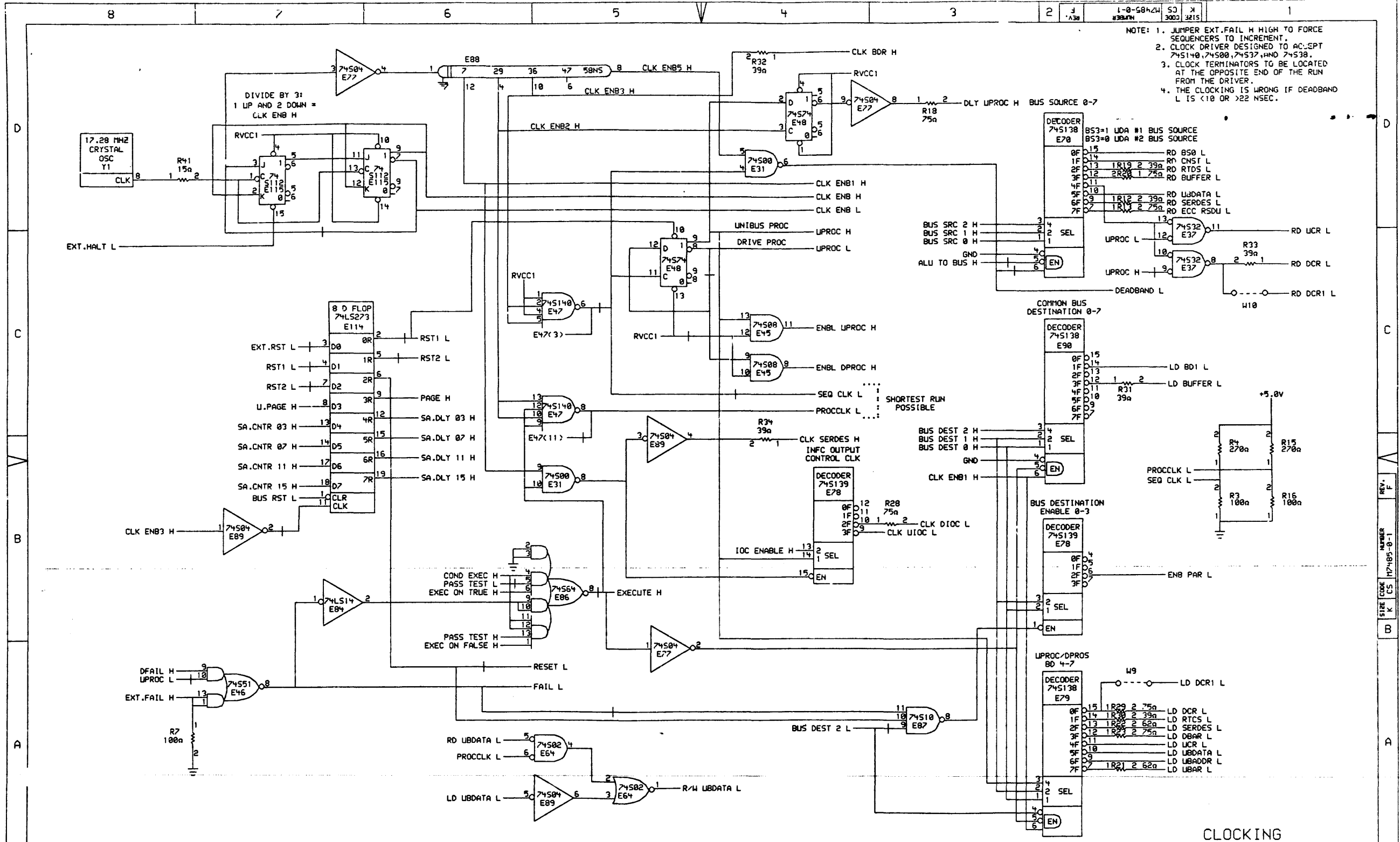
- NOTES:
1. UNLESS OTHERWISE SPECIFIED: ALL RESISTORS ARE 1/4W, 5%.
  2. GATES MARKED WITH A STAR (\*) MAY BE "S" OR "LS".
  3. 2901 RAM REGISTERS CONFIGURED FOR A 16 BIT ROTATION WHILE THE "0" REGISTER IS A 16 BIT SHIFT.
  4. LITERAL BITS 0-7 CORRESPOND TO BUS SRC 0-3, IOC SEL 0-3 AND SET IOC.
  5. NUMBERS SHOWN IN BRACKETS, ( ), INDICATE LOGIC LEVEL FOR INSTRUCTION ZERO.



LDA50A 5015403B ALU

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--	--	---	--	---------------------------------	---





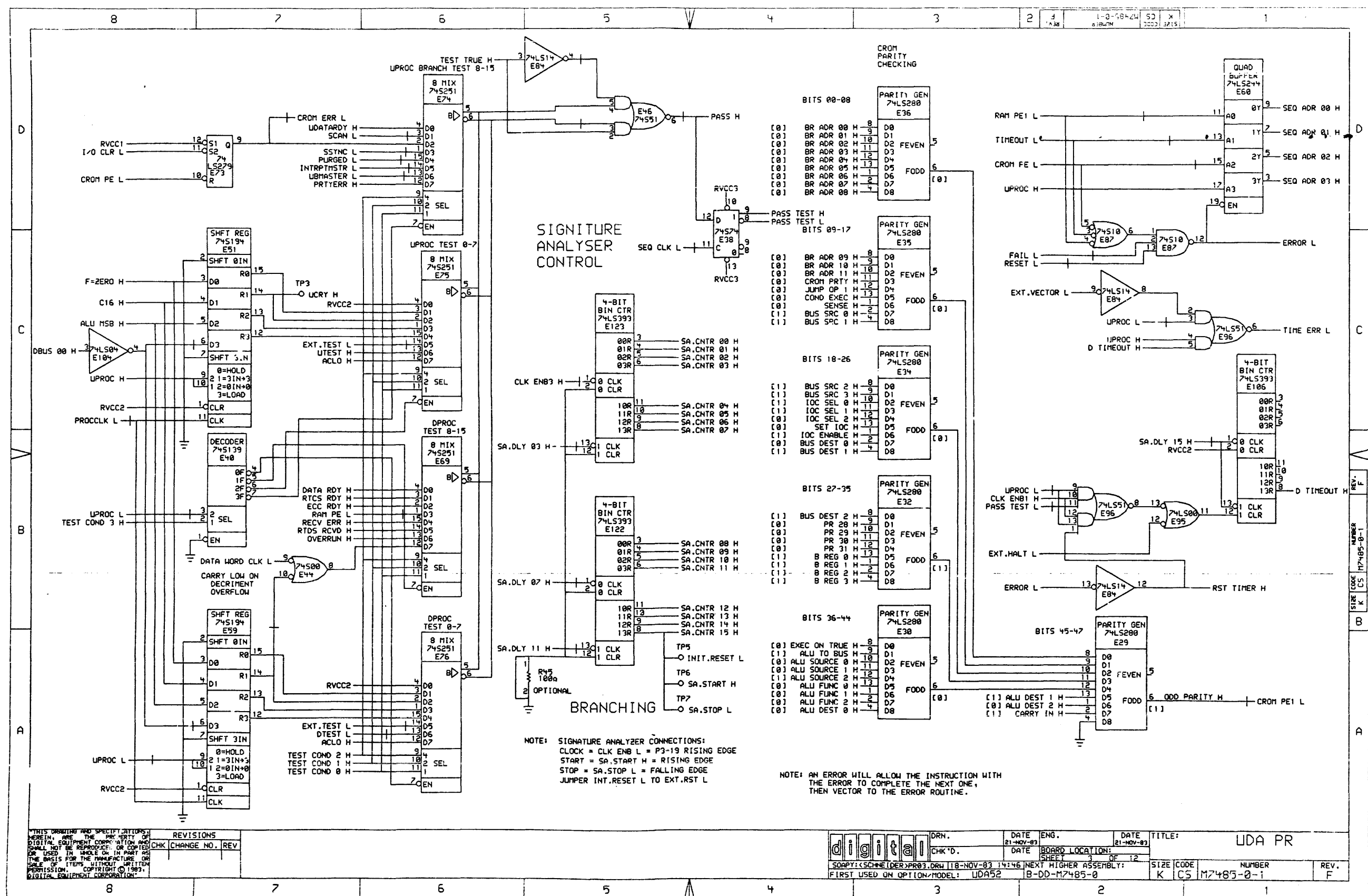
NOTE: 1. JUMPER EXT.FAIL H HIGH TO FORCE SEQUENCERS TO INCREMENT.  
 2. CLOCK DRIVER DESIGNED TO AC.EPT 745140, 74500, 74537, AND 74538.  
 3. CLOCK TERMINATORS TO BE LOCATED AT THE OPPOSITE END OF THE RUN FROM THE DRIVER.  
 4. THE CLOCKING IS WRONG IF DEADBAND L IS <10 OR >22 NSEC.

CLOCKING

REV.	DATE	DESCRIPTION
1	21-NOV-83	DRW.
2	21-NOV-83	ENG.

REV.	DATE	DESCRIPTION
1	21-NOV-83	DRW.
2	21-NOV-83	ENG.

REV.	DATE	DESCRIPTION
1	21-NOV-83	DRW.
2	21-NOV-83	ENG.



**SIGNATURE ANALYSER CONTROL**

**BRANCHING**

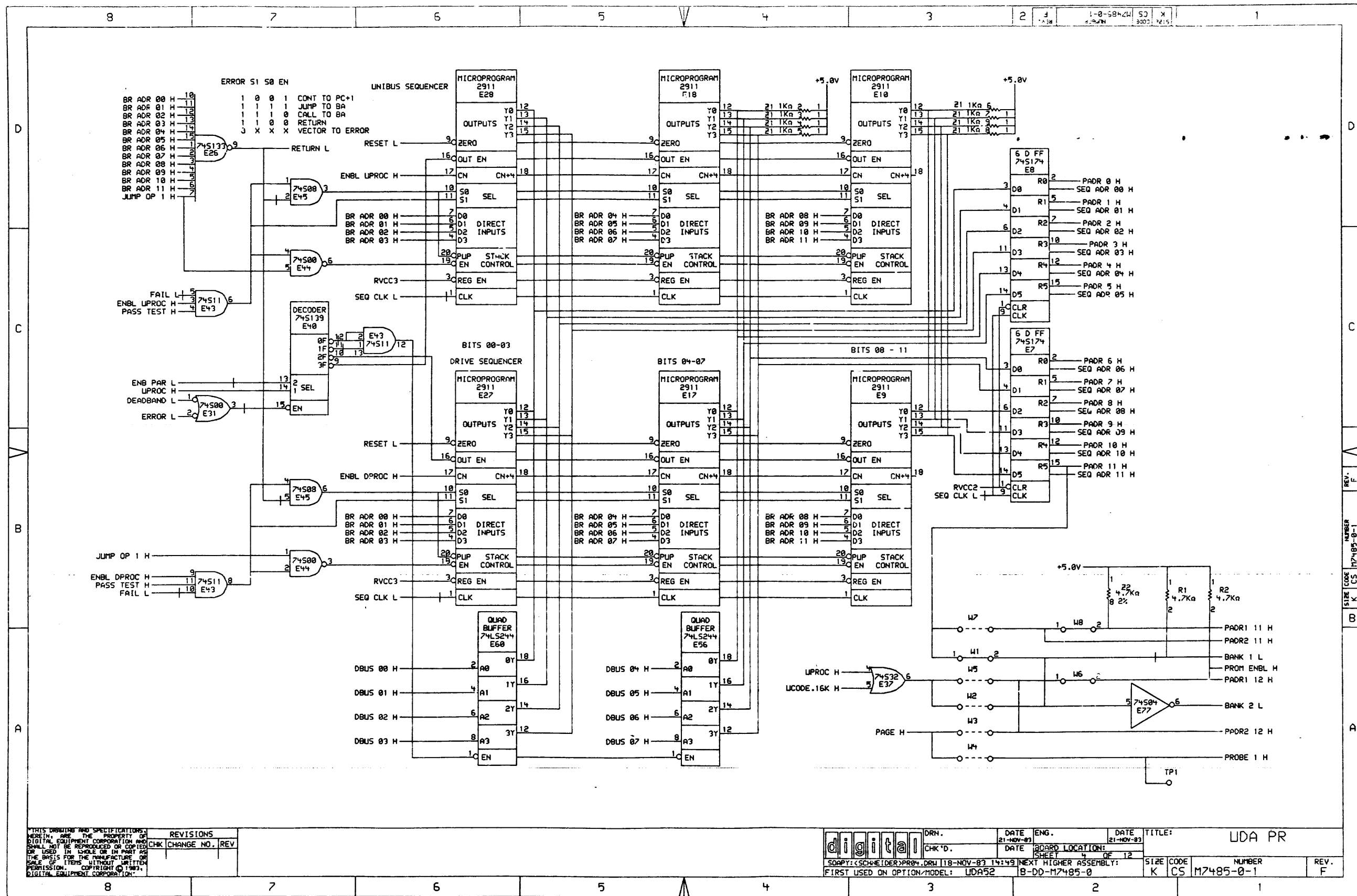
**CROM PARITY CHECKING**

NOTE: SIGNATURE ANALYSER CONNECTIONS:  
 CLOCK = CLK ENB L = P3-19 RISING EDGE  
 START = SA.START H = RISING EDGE  
 STOP = SA.STOP L = FALLING EDGE  
 JUMPER INT.RESET L TO EXT.RST L

NOTE: AN ERROR WILL ALLOW THE INSTRUCTION WITH THE ERROR TO COMPLETE THE NEXT ONE, THEN VECTOR TO THE ERROR ROUTINE.

REV.	CHG.	NO.	REV.

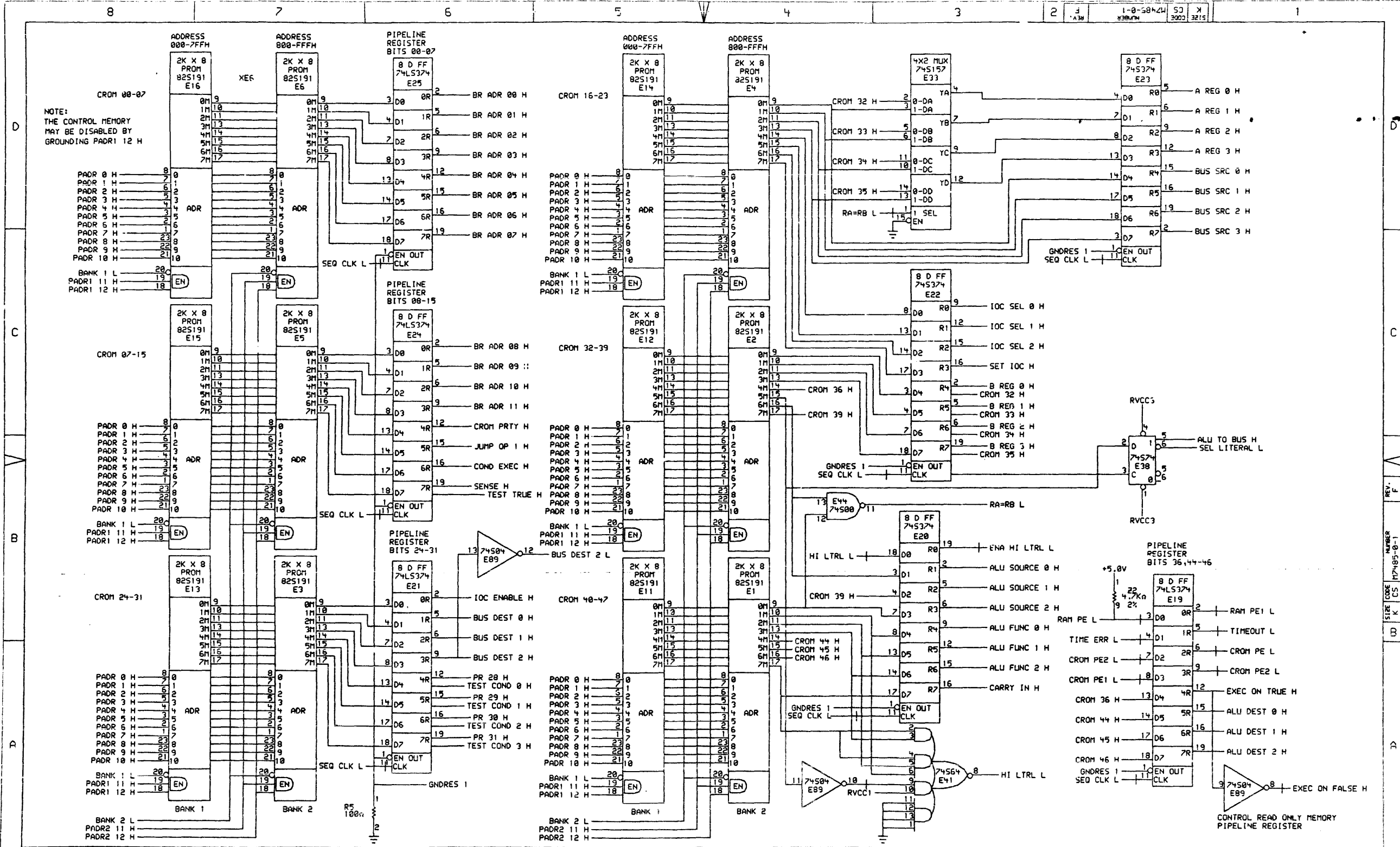
digital	DRN.	DATE	ENG.	DATE	TITLE:
		21-NOV-83		21-NOV-83	UDA PR
	CHK'D.	DATE	BOARD LOCATION:	SHEET	OF
		18-NOV-83 14:46			
	FIRST USED ON OPTION/MODEL:	UDA52	B-DD-M7485-0	SIZE	CODE
				K	C5
				NUMBER	REV.
				M7485-0-1	F



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REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	LDA PR
COPY: (SCHNEIDER) PRN.DRW 118-NOV-83 14:49		NEXT HIGHER ASSEMBLY:		SIZE	CODE
FIRST USED ON OPTION MODEL: LDA52		B-DD-M7485-0		K	CS
				NUMBER	REV.
				M7485-0-1	F



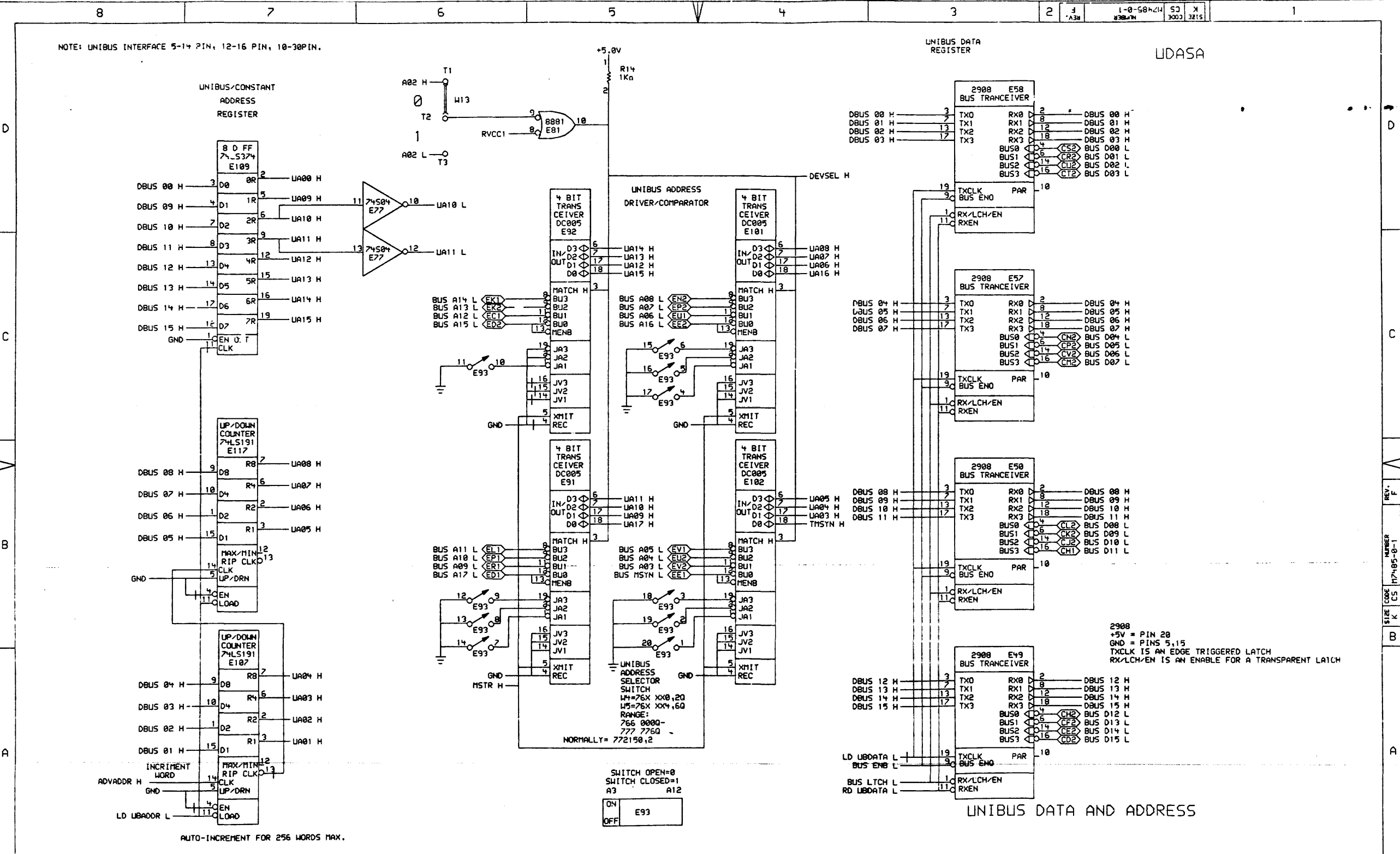
NOTE:  
THE CONTROL MEMORY  
MAY BE DISABLED BY  
GROUNDING PADR1 12 H

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REV. NO.	CHK	CHANGE NO.	REV

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	21-NOV-83		21-NOV-83	UDA PR
DATE	BOARD LOCATION:	SHEET	OF	
11-NOV-83 14:51	12	5	12	
FIRST USED ON OPTION-MODEL:	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
UDA92	B-DD-M7485-0	K CS	M7485-0-1	F

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



REVISIONS  
 CHK CHANGE NO. REV

UNIBUS DATA REGISTER  
 UDASA

UNIBUS DATA AND ADDRESS

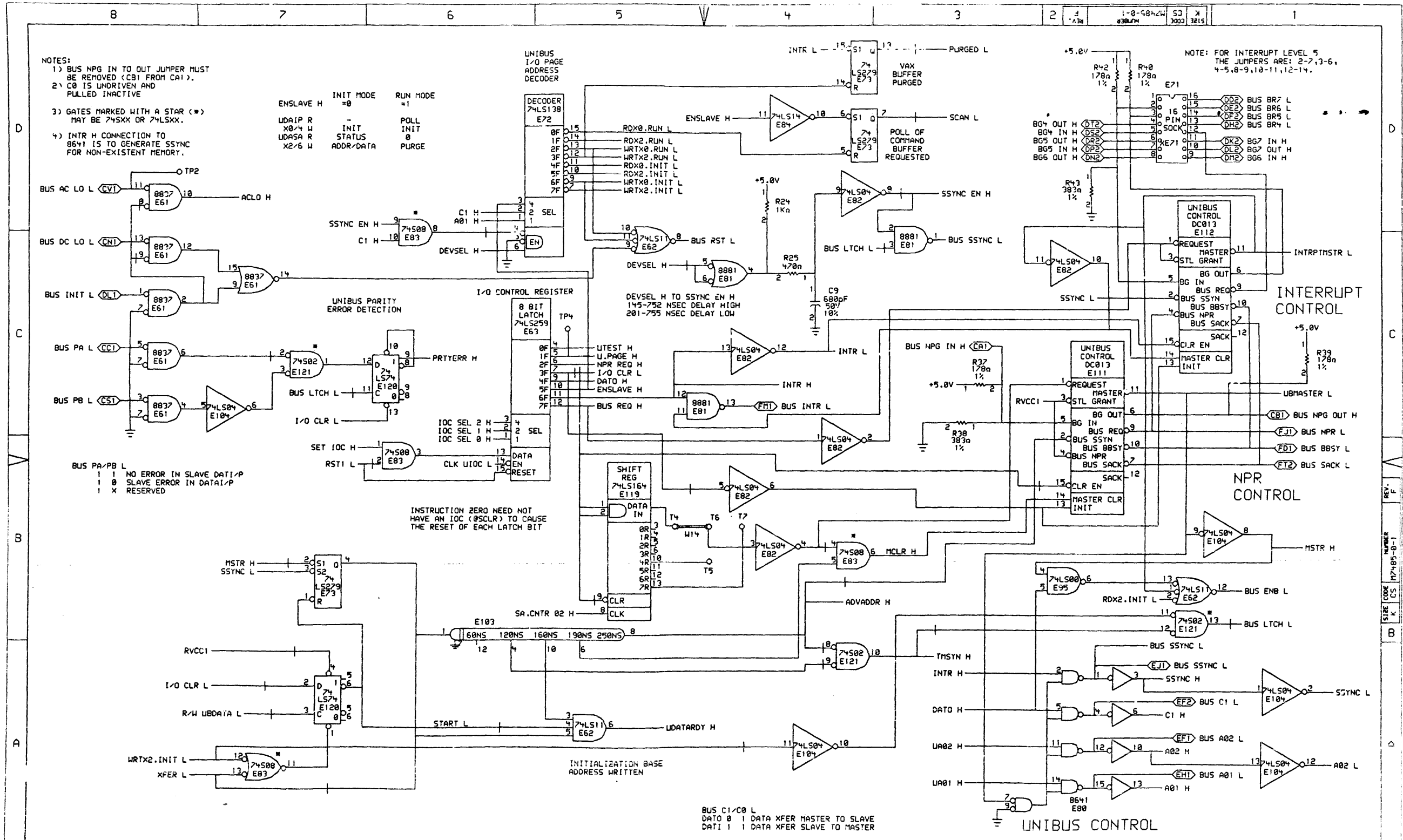
2908  
 +5V = PIN 20  
 GND = PINS 5,15  
 TXCLK IS AN EDGE TRIGGERED LATCH  
 RX/LCH/EN IS AN ENABLE FOR A TRANSPARENT LATCH

LD UBADDR L  
 BUS LTCH L  
 RD UBADDR L

SWITCH OPEN=0  
 SWITCH CLOSED=1  
 A3 A12  
 ON OFF E93

AUTO-INCREMENT FOR 256 WORDS MAX.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	UDA PR
COPY: (SOME) DERIVED FROM 118-NOV-83 14:53 NEXT HIGHER ASSEMBLY:		BOARD LOCATION:		SHEET 6 OF 12	
FIRST USED ON OPTION/MODEL: UDA52		B-DD-M7485-0		SIZE CODE	NUMBER
				K CS	M7485-0-1
					REV. F



NOTES:  
 1) BUS NPG IN TO OUT JUMPER MUST BE REMOVED (C81 FROM CA1).  
 2) C8 IS UNDRIVEN AND PULLED INACTIVE.  
 3) GATES MARKED WITH A STAR (\*) MAY BE 74SXX OR 74LSXX.  
 4) INTR H CONNECTION TO 8641 IS TO GENERATE SSYNC FOR NON-EXISTENT MEMORY.

ENSLAVE H	INIT MODE =0	RUN MODE =1
UDAIP R	-	POLL INIT
X0/4 W	INIT STATUS	INIT
UDASA R	ADDR/DATA	PURGE
X2/6 W		

NOTE: FOR INTERRUPT LEVEL 5 THE JUMPERS ARE: 2-7,3-6, 4-5,8-9,10-11,12-14.

BUS PA/PB L  
 1 1 NO ERROR IN SLAVE DATA/P  
 1 0 SLAVE ERROR IN DATA/P  
 1 X RESERVED

INSTRUCTION ZERO NEED NOT HAVE AN IOC (0SCLR) TO CAUSE THE RESET OF EACH LATCH BIT

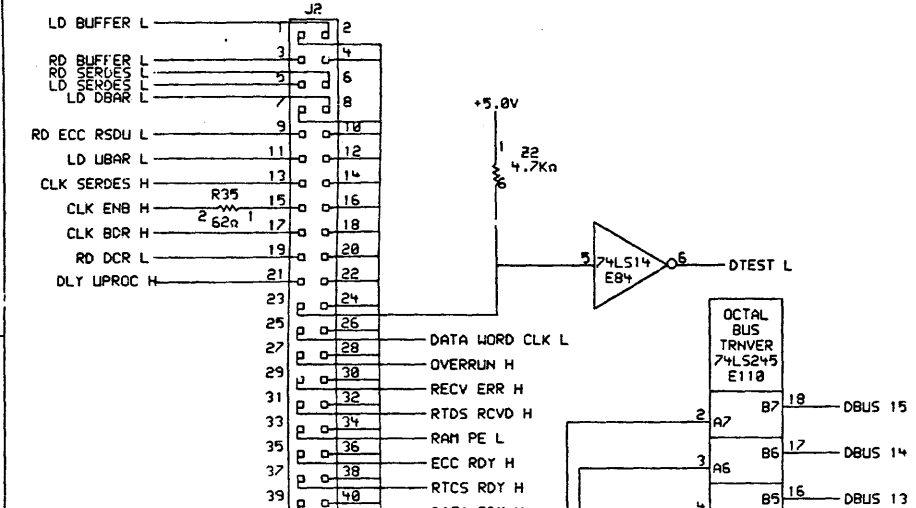
BUS C1/C0 L  
 DATO 0 1 DATA XFER MASTER TO SLAVE  
 DATI 1 1 DATA XFER SLAVE TO MASTER

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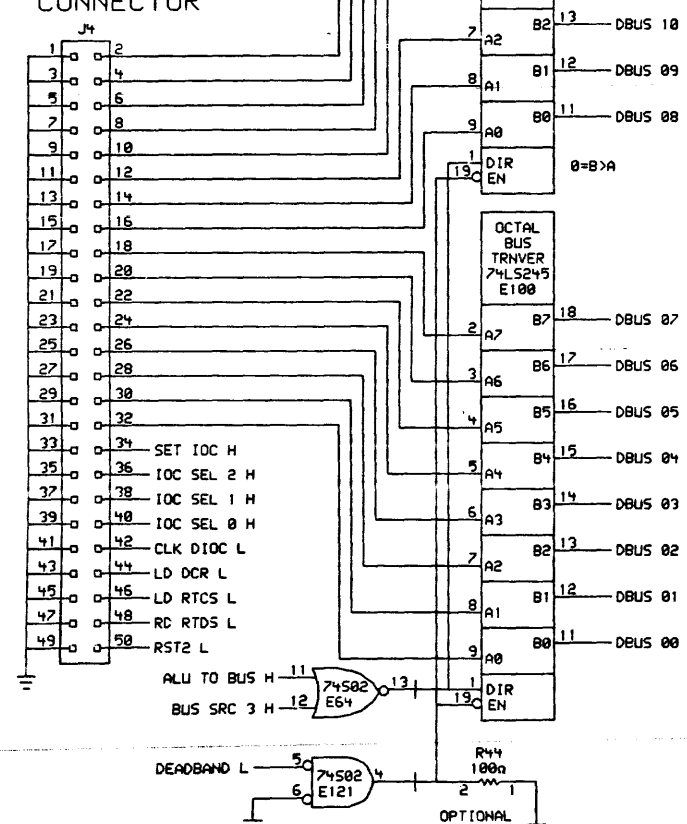
REV.	DESCRIPTION
1	INITIAL

DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.	21-NOV-83		21-NOV-83	UDA PR
DATE	BOARD LOCATION:	SHEET	OF	
20-NOV-83	12	12		
SIZE CODE	NUMBER	REV.		
K CS	M7485-0-1	F		

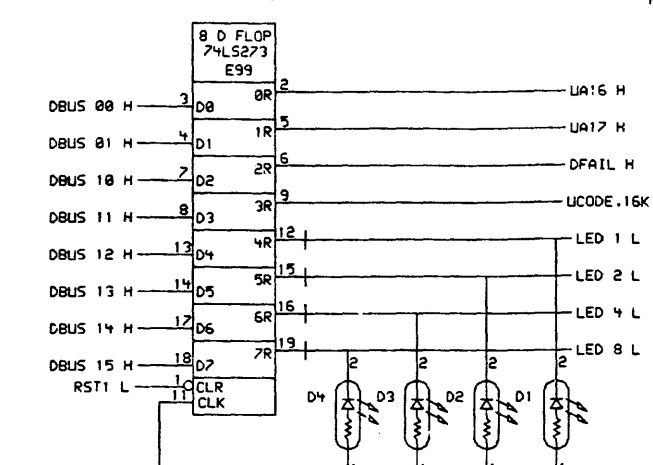
CONTROL CONNECTOR



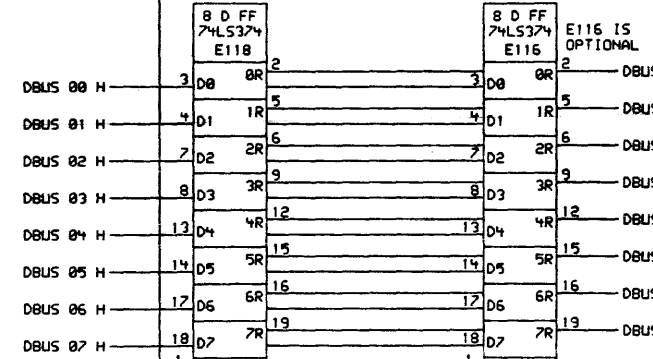
DATA BUS CONNECTOR



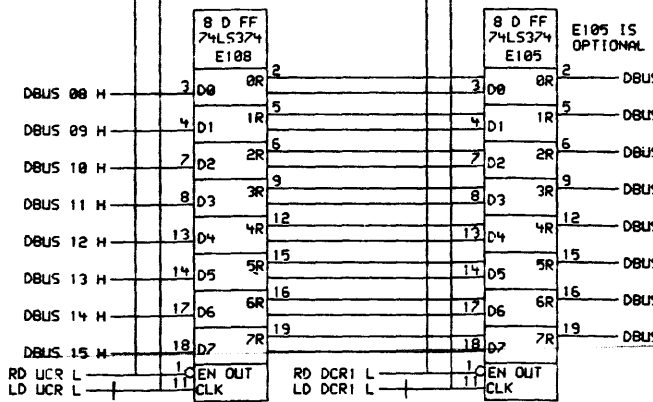
UNIBUS CONTROL REGISTER WRITE ONLY



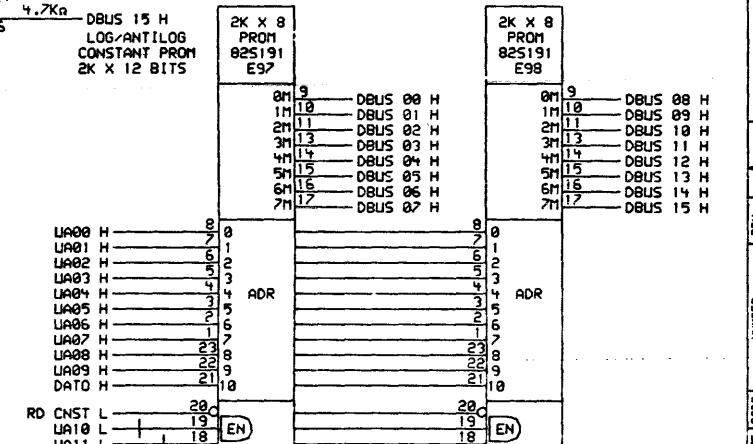
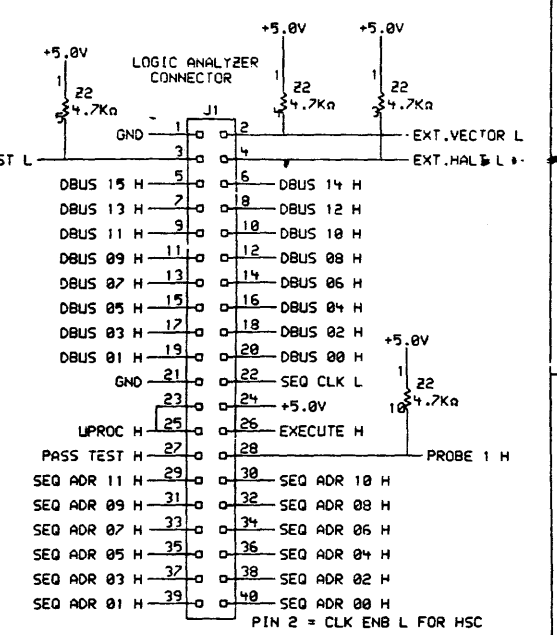
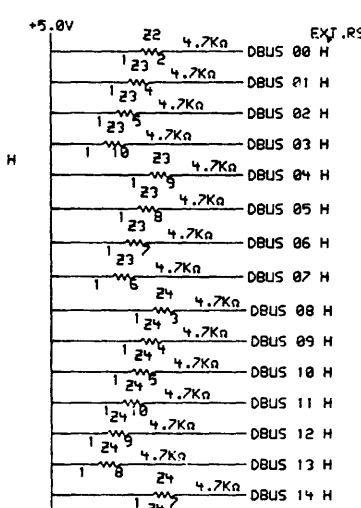
UNIBUS CONTROL REGISTER READ/WRITE



UNIBUS CONTROL REGISTER READ/WRITE

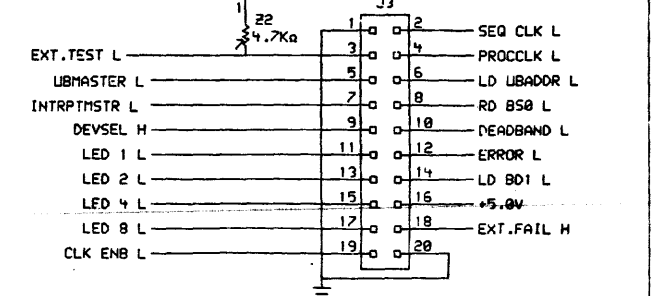


NOTE: DBUS 00 H MUST BE PULLED UP! THE OTHER PULLUPS ARE OPTIONAL.



NOTE: BITS 12-15 OF THE PROM MUST BE ZERO FOR SOFTWARE EFFICIENCY.

TEST CONNECTOR

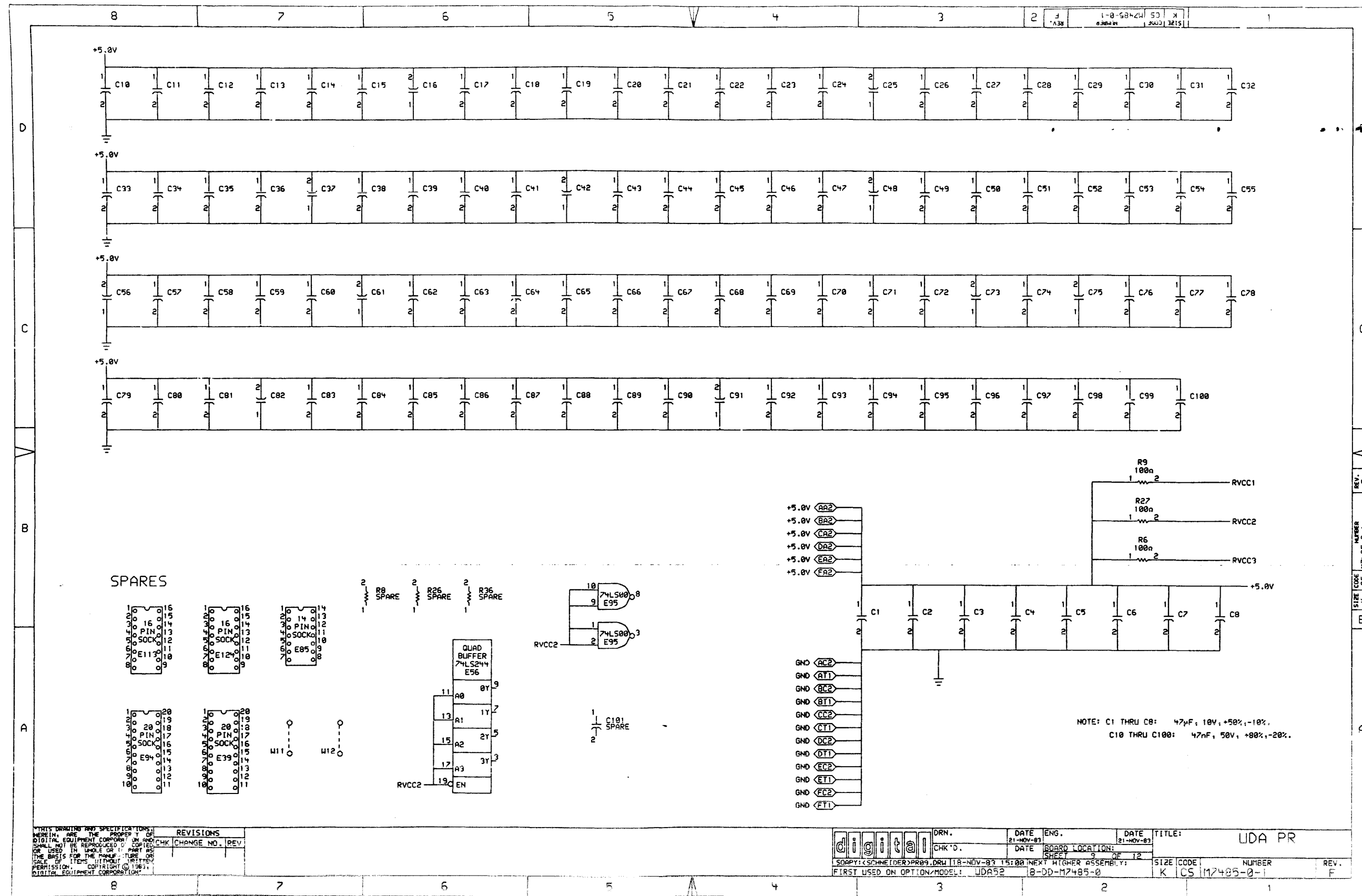


LDA2 CONNECTORS AND CR REG

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REVISIONS	
CHK	CHANGE NO. REV

DRN.	DATE	ENG.	DATE	TITLE:	LDA PR
CHK'D.	21-NOV-83		21-NOV-83		



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REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	UDA PR
SOPRY: SCHNEIDER PR09 DRU 118-NOV-83 15:00 NEW HIGHER ASSEMBLY		BOARD LOCATION:		SHEET 9 OF 12	
FIRST USED ON OPTION/MODEL: UDA52		18-DD-M7485-0		SIZE CODE:	NUMBER
				K CS	117485-0-1
				REV.	F



8 7 6 5 4 3 2 1

Vertical location (A-D)      Direction of line (Left, Right, Up, Down)  
or electrical (Input, Output, Both)  
KEY:      SS-VH,D      or backplane pin (Pin)

Schematic Sheet      Horizontal location (1-8)

+5.0V ..... 1-D4,D 2-C1,D 4-B2,R 4-D2,D 4-D4,D 5-B2,D  
6-D5,D 7-C1,D 7-C3,R 7-D2,R 7-D4,D 8-A1,L 8-A2,D 8-C1,L  
8-C5,R 8-D1,D 8-D1,D 8-D1,D 8-D2,D 8-D3,D 8-D7,D 9-B1,L  
9-C8,D 9-C8,D 9-D8,D 9-D8,D 9-B4,R <AA2> 9-B4,R <BA2>  
9-B4,R <CA2> 9-B4,R <DA2> 9-B4,R <EA2> 9-B4,R <FA2>

BUS A03 L ..... 6-B5,R <EV2>  
BUS A04 L ..... 6-B5,R <EU2>  
BUS A05 L ..... 6-B5,R <EV1>  
BUS A06 L ..... 6-C5,R <EU1>  
BUS A07 L ..... 6-C5,R <EP2>  
BUS A08 L ..... 6-C5,R <EN2>  
BUS A09 L ..... 6-B6,R <ER1>  
BUS A10 L ..... 6-B6,R <EP1>  
BUS A11 L ..... 6-B6,R <EL1>  
BUS A12 L ..... 6-C6,R <EC1>  
BUS A13 L ..... 6-C6,R <EK2>  
BUS A14 L ..... 6-C6,R <EK1>  
BUS A15 L ..... 6-C6,R <ED2>  
BUS A16 L ..... 6-C5,R <EE2>  
BUS A17 L ..... 6-B6,R <ED1>  
BUS AC LO L ..... 7-D8,R <CV1>  
BUS BBSY L ..... 7-B1,L <FD1>  
BUS BR4 L ..... 7-D1,L <DH2>  
BUS BR5 L ..... 7-D1,L <DF2>  
BUS BR6 L ..... 7-D1,L <DE2>  
BUS BR7 L ..... 7-D1,L <DD2>  
BUS C1 L ..... 7-A2,L <EF2>  
BUS D00 L ..... 6-D2,L <CS2>  
BUS D01 L ..... 6-D2,L <CR2>  
BUS D02 L ..... 6-D2,L <CU2>  
BUS D03 L ..... 6-D2,L <CT2>  
BUS D04 L ..... 6-C2,L <CN2>  
BUS D05 L ..... 6-C2,L <CP2>  
BUS D06 L ..... 6-C2,L <CV2>  
BUS D07 L ..... 6-C2,L <CM2>  
BUS D08 L ..... 6-B2,L <CL2>  
BUS D09 L ..... 6-B2,L <CK2>  
BUS D10 L ..... 6-B2,L <CJ2>  
BUS D11 L ..... 6-B2,L <CH1>  
BUS D12 L ..... 6-A2,L <CH2>  
BUS D13 L ..... 6-A2,L <CF2>  
BUS D14 L ..... 6-A2,L <CE2>  
BUS D15 L ..... 6-A2,L <CD2>  
BUS DC LO L ..... 7-C8,R <CN1>  
BUS DEST 0 H ..... 2-B3,R 3-B3,R 5-B6,L  
BUS DEST 1 H ..... 2-B3,R 3-B3,R 5-B6,L  
BUS DEST 2 H ..... 2-C3,R 3-B3,R 5-A6,L  
BUS DEST 2 L ..... 2-A4,R 5-B5,L  
BUS ENB L ..... 6-A3,R 7-B1,L  
BUS INIT L ..... 7-C8,R <DL1>  
BUS INTR L ..... 7-C4,L <FM1>  
BUS LTCH L ..... 6-A3,R 7-B1,L 7-C3,R 7-C7,R  
BUS MSYN L ..... 6-B5,R <EE1>  
BUS NPG IN H ..... 7-C3,R <CA1>  
BUS NPG OUT H ..... 7-C1,L <CB1>  
BUS NPR L ..... 7-C1,L <FJ1>  
BUS PA L ..... 7-C8,R <CC1>  
BUS PB L ..... 7-C8,R <CS1>  
BUS REQ H ..... 7-C5,L  
BUS RST L ..... 2-B7,R 7-C5,L  
BUS SACK L ..... 7-B1,L <FT2>  
BUS SRC 0 H ..... 1-A5,R 1-A7,R 2-C3,R 3-C3,R 5-D2,L  
BUS SRC 1 H ..... 1-A5,R 1-A7,R 2-C3,R 3-C3,R 5-D2,L  
BUS SRC 2 H ..... 1-B5,R 1-B7,R 2-D3,R 3-C3,R 5-D2,L  
BUS SRC 3 H ..... 1-B5,R 1-B7,R 3-C3,R 5-D2,L 8-A7,R  
BUS SSYNC L ..... 7-A2,L 7-C3,L 7-A2,L <EJ1>

C1 H ..... 7-A2,L 7-C6,R 7-D6,R  
C12 IN H ..... 1-C7,R 1-D2,L  
C16 H ..... 1-C7,L 3-C8,R  
C4 IN H ..... 1-C2,L 1-C5,R  
C8 IN H ..... 1-C2,L 1-C6,R  
CARRY IN H ..... 1-C3,R 1-C4,R 3-A2,R 5-A3,L  
CLK BDR H ..... 2-D4,L 8-D8,R  
CLK DIOC L ..... 2-B3,L 8-A7,L  
CLK ENB H ..... 2-D4,L 8-D8,R  
CLK ENB L ..... 2-D4,L 8-A2,R  
CLK ENB1 H ..... 2-B3,R 2-D4,L 3-B2,R  
CLK ENB2 H ..... 2-D6,L  
CLK ENB3 H ..... 2-B8,R 2-D5,L 3-C5,R  
CLK ENB5 H ..... 2-D5,L  
CLK SERDES H ..... 2-B4,L 8-D8,R  
CLK UIOC L ..... 2-B3,L 7-B6,R  
COND EXEC H ..... 2-B6,R 3-C3,R 5-B6,L  
CROM 32 H ..... 5-C3,L 5-D3,R  
CROM 33 H ..... 5-C3,L 5-D3,R  
CROM 34 H ..... 5-C3,L 5-D3,R  
CROM 35 H ..... 5-B3,L 5-D3,R  
CROM 36 H ..... 5-A2,R 5-C4,L  
CROM 39 H ..... 5-B4,R 5-C4,L  
CROM 44 H ..... 5-A2,R 5-B4,L  
CROM 45 H ..... 5-A2,R 5-A4,L  
CROM 46 H ..... 5-A2,R 5-A4,L  
CROM ERR L ..... 3-D7,L  
CROM PE L ..... 3-D2,R 3-D8,R 5-A1,L  
CROM PE1 L ..... 3-A1,L 5-A2,R  
CROM PE2 L ..... 5-A1,L 5-A2,R  
CROM PRTY H ..... 3-C3,R 5-C6,L  
D TIMEOUT H ..... 3-B1,L 3-C2,R  
DATA RDY H ..... 3-B7,R 8-C7,L  
DATA WORD CLK L ..... 3-B7,R 8-D7,L  
DATO H ..... 7-A3,R 7-C5,L 8-B3,R  
DBUS 02 H ..... 1-A5,R 1-D4,L 3-C8,R 4-A6,R 6-D2,L 6-D3,R  
6-D8,R 8-A6,L 8-C2,L 8-C4,L 8-C5,R 8-D1,L 8-D3,L 8-D5,R  
DBUS 01 H ..... 1-A5,R 1-D4,L 4-A6,R 5-A8,R 6-D2,L 6-D3,R  
8-A6,L 8-C2,L 8-C4,L 8-C5,R 8-D2,R 8-D3,L 8-D5,R  
DBUS 02 H ..... 1-A5,R 1-D4,L 4-A6,R 5-A8,R 6-D2,L 6-D3,R  
8-A6,L 8-B2,L 8-B5,R 8-C4,L 8-D1,L 8-D3,L  
DBUS 03 H ..... 1-B5,R 1-D4,L 4-A6,R 5-A8,R 6-D2,L 6-D3,R  
8-A6,L 8-B2,L 8-B4,L 8-B5,R 8-D2,R 8-D3,L  
DBUS 04 H ..... 1-A6,R 1-D5,L 4-A5,R 5-A8,R 6-C2,L 6-C3,R  
8-B2,L 8-B4,L 8-B5,R 8-B6,L 8-D1,L 8-D3,L  
DBUS 05 H ..... 1-A6,R 1-D5,L 4-A5,R 5-A8,R 6-C2,L 6-C3,R  
8-B2,L 8-B4,L 8-B5,R 8-B6,L 8-D2,R 8-D3,L  
DBUS 06 H ..... 1-A6,R 1-D5,L 4-A5,R 5-A8,R 6-C2,L 6-C3,R  
8-B2,L 8-B4,L 8-B5,R 8-B6,L 8-D1,L 8-D3,L  
DBUS 07 H ..... 1-B6,R 1-D5,L 4-A5,R 5-A8,R 6-C2,L 6-C3,R  
8-B2,L 8-B4,L 8-B5,R 8-B6,L 8-C3,L 8-D2,R  
DBUS 08 H ..... 1-A7,R 1-D6,L 6-B2,L 6-B3,R 6-B8,R 8-B4,L  
8-B5,R 8-B6,L 8-C1,L 8-C3,L 8-D1,L  
DBUS 09 H ..... 1-A7,R 1-D6,L 6-B2,L 6-B3,R 6-D8,R 8-A4,L  
8-A5,R 8-C1,L 8-C3,L 8-C6,L 8-D2,R  
DBUS 10 H ..... 1-A7,R 1-D6,L 6-B2,L 6-B3,R 6-D8,R 8-A4,L  
8-A5,R 8-B1,L 8-C3,L 8-C6,L 8-D1,L 8-D5,R  
DBUS 11 H ..... 1-B7,R 1-D6,L 6-B2,L 6-B3,R 6-C8,R 8-A4,L  
8-A5,R 8-B1,L 8-C3,L 8-C6,L 8-D2,R 8-D5,R  
DBUS 12 H ..... 1-A8,R 1-D7,L 6-A2,L 6-A3,R 6-C8,P 8-A4,L  
8-A5,R 8-B1,L 8-C3,L 8-C6,L 8-D1,L 8-D5,R

D  
C  
B  
A

D  
C  
B  
A

REV. F  
NUMBER M7485-0-1  
CODE CS  
SIZE K

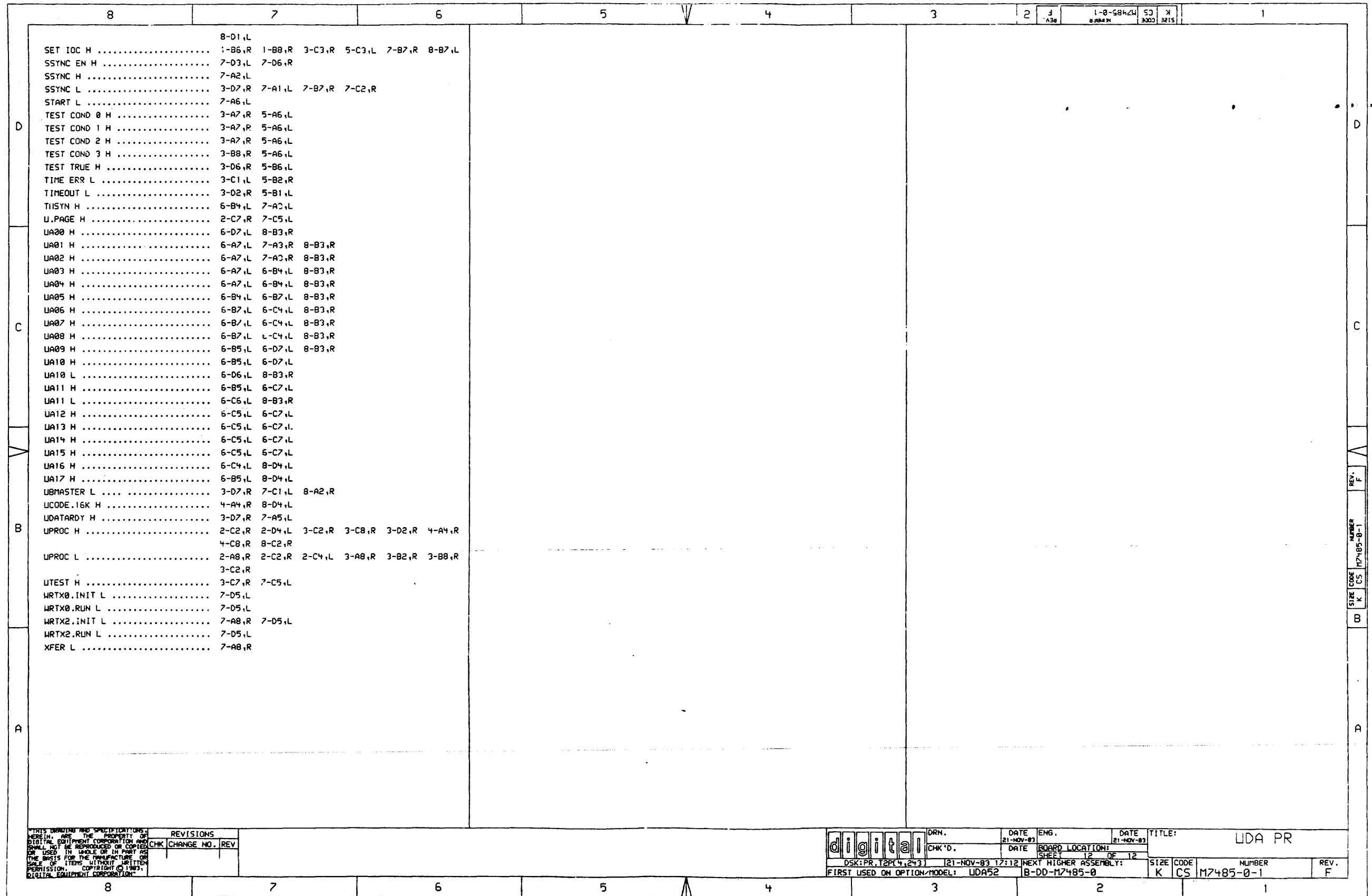
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REV.	CHG.	NO.	REV.

digital DRN. DATE 21-NOV-83 ENG. DATE 21-NOV-83 TITLE: LDA PR  
CHK'D. DATE BOARD LOCATION: SHEET 18 OF 12  
DSK:PR.1ZPL4.2431 | 21-NOV-83 12:11 NEXT HIGHER ASSEMBLY: B-DD-M7485-0  
FIRST USED ON OPTION/MODEL: LDA52 | SIZE CODE K CS NUMBER M7485-0-1 REV. F

8 7 6 5 4 3 2 1





8-D1,L  
 SET IOC H ..... 1-B8,R 1-B8,R 3-C3,R 5-C3,L 7-B7,R 8-B7,L  
 SSYNC EN H ..... 7-D3,L 7-D6,R  
 SSYNC H ..... 7-A2,L  
 SSYNC L ..... 3-D7,R 7-A1,L 7-B7,R 7-C2,R  
 START L ..... 7-A6,L  
 TEST COND 0 H ..... 3-A7,R 5-A6,L  
 TEST COND 1 H ..... 3-A7,R 5-A6,L  
 TEST COND 2 H ..... 3-A7,R 5-A6,L  
 TEST COND 3 H ..... 3-B8,R 5-A6,L  
 TEST TRUE H ..... 3-D6,R 5-B6,L  
 TIME ERR L ..... 3-C1,L 5-B2,R  
 TIMEOUT L ..... 3-D2,R 5-B1,L  
 THSYN H ..... 6-B4,L 7-A2,L  
 U.PAGE H ..... 2-C7,R 7-C5,L  
 UA00 H ..... 6-D7,L 8-B3,R  
 UA01 H ..... 6-A7,L 7-A3,R 8-B3,R  
 UA02 H ..... 6-A7,L 7-A3,R 8-B3,R  
 UA03 H ..... 6-A7,L 6-B4,L 8-B3,R  
 UA04 H ..... 6-A7,L 6-B4,L 8-B3,R  
 UA05 H ..... 6-B4,L 6-B7,L 8-B3,R  
 UA06 H ..... 6-B7,L 6-C4,L 8-B3,R  
 UA07 H ..... 6-B7,L 6-C4,L 8-B3,R  
 UA08 H ..... 6-B7,L 6-C4,L 8-B3,R  
 UA09 H ..... 6-B5,L 6-D7,L 8-B3,R  
 UA10 H ..... 6-B5,L 6-D7,L  
 UA10 L ..... 6-D6,L 8-B3,R  
 UA11 H ..... 6-B5,L 6-C7,L  
 UA11 L ..... 6-C6,L 8-B3,R  
 UA12 H ..... 6-C5,L 6-C7,L  
 UA13 H ..... 6-C5,L 6-C7,L  
 UA14 H ..... 6-C5,L 6-C7,L  
 UA15 H ..... 6-C5,L 6-C7,L  
 UA16 H ..... 6-C4,L 8-D4,L  
 UA17 H ..... 6-B5,L 8-D4,L  
 UBMMASTER L ..... 3-D7,R 7-C1,L 8-A2,R  
 UCODE.16K H ..... 4-A4,R 8-D4,L  
 UDATARDY H ..... 3-D7,R 7-A5,L  
 UPROC H ..... 2-C2,R 2-D4,L 3-C2,R 3-C8,R 3-D2,R 4-A4,R  
 UPROC L ..... 4-C8,R 8-C2,R  
 UTEST H ..... 2-A8,R 2-C2,R 2-C4,L 3-A8,R 3-B2,R 3-B8,R  
 UTEST L ..... 3-C2,R  
 UTEST H ..... 3-C7,R 7-C5,L  
 WRTX0.INIT L ..... 7-D5,L  
 WRTX0.RUN L ..... 7-D5,L  
 WRTX2.INIT L ..... 7-A8,R 7-D5,L  
 WRTX2.RUN L ..... 7-D5,L  
 XFER L ..... 7-A8,R

REVISIONS	
CHK	CHANGE NO. REV

digital	DRN.	DATE	ENG.	DATE	TITLE:
	CHK'D.	21-NOV-83		21-NOV-83	LDA PR
DSK: PR.12P14.243		21-NOV-83 12:12		NEXT HIGHER ASSEMBLY:	
FIRST USED ON OPTION/MODEL: LDA52		B-DD-M7485-0		SIZE CODE	NUMBER
				K CS	M7485-0-1
				REV.	F

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DRAWING NUMBER	QTY SHIS	PART NO.	TITLE	REVISIONS
K-DD-M7486-0-0	1	M7486-00	UDA S1	M
K-PL-M7486-0-DBP	3		UDA SI (PART REV)	H4
D-UA-M7486-0-0	2		UDA SI	L
K-CS-M7486-0-1	15		UDA SI	J
K-PC-M7486-0-DBI	-		P C DATA BASE	C
B-DD-5015402-0-0	1		ETCHED CIRCUIT BOARD	D

78-12-1  
SMB

NOTES:

R  
E  
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M

R  
E  
H  
V  
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N  
O  
R  
Y

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C  
X  
S  
O  
1  
1  
8  
0  
9

D  
24  
J  
A  
N  
86

OPTIONS: NEXT HIGHER DOC. FILE NAME: UDA50-A DDM748600.M

DRN: W MAJOR DATE: 24 JAN 86

CHK'D: SUE BOURBEAU DATE: 24 JAN 86 TITLE UDA S1

DES. ENG: J. VAGAIS DATE: 24 JAN 86

RESP. ENG: J. VAGAIS DATE: 24 JAN 86

MEG. ENG: PAM GOMEZ-GIL DATE: 24 JAN 86

DOCUMENT NUMBER

SIZE: CODE: NUMBER REV

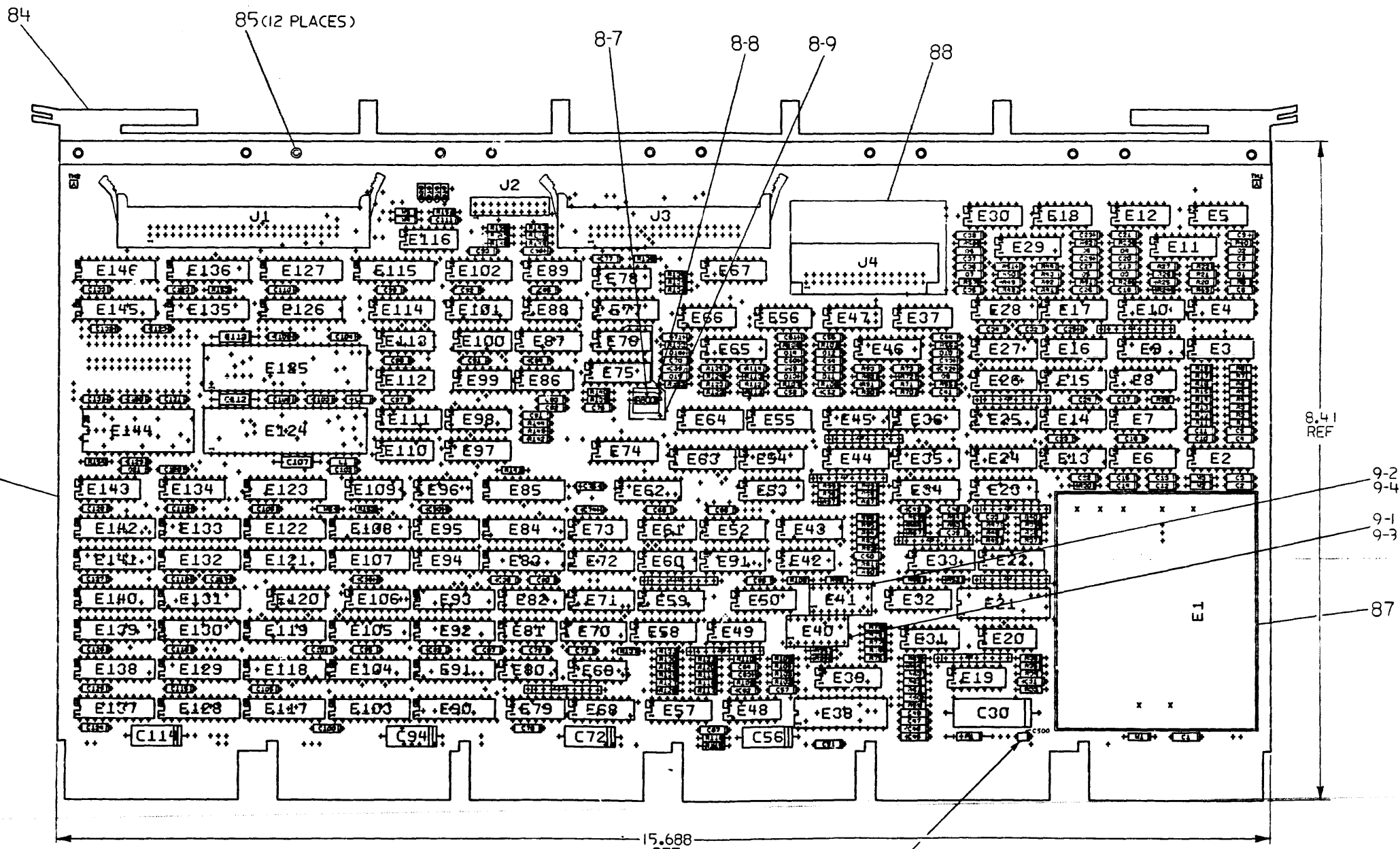
K DD M7486-0-0 M

SHEET 1 OF 1

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COMPONENT SIDE VIEW



NOTES: 1. INSTALL L2 AFTER E125 IS INSTALLED.  
 2. SPARES ARE: E2, E6, E7, E14, E15, E67, E74, E75, E97, E98, E111, E134, W4, C102, C103, R3, R12, R14, R15, R30, R54, R67-R69, R84-R86, R97-R99, R140, R142-R144, R148.  
 3. C5C0 WILL BE HAND INSERTED.

STEP	Y AXIS	STEP	TIMES
REPEAT	X AXIS	STEP	TIMES

CHK	CH	NO	REV	F	I	J
1882	ECCO	M7486				
1883	CROOK					
1884	J.R. IS	NOV83				
1885	J.VAGIAS					
1886	J.VAGIAS					
1887	J.VAGIAS					
1888	J.VAGIAS					
1889	J.VAGIAS					
1890	J.VAGIAS					
1891	J.VAGIAS					
1892	J.VAGIAS					

SEE NOTE 3

ETCH REV. C1-P3

SIGNATURES		DATE
DRN.		11/27/83
CHK'D		11/27/83
MECH. ENG.		11/27/83
PROJ. ENG.		11/27/83
PROD. W.E. Day		12/15/83

TITLE: UDA SI

SCALE: 1.5/1

SHT. 1 OF 2

NEXT HIGHER ASSY: B-DD-M7486-0-0

8.41 REF

9-2

9-4

9-1

9-3

87

15.688 REF

84

85 (12 PLACES)

8-7

8-8

8-9

88

J1

J2

J3

J4

E1

C30

E148

E136

E127

E115

E102

E89

E78

E67

E30

E18

E12

E5

E145

E135

E126

E114

E101

E88

E77

E66

E56

E47

E37

E29

E28

E17

E10

E4

E185

E113

E100

E87

E79

E65

E46

E27

E16

E9

E3

E144

E124

E112

E99

E86

E75

E64

E55

E45

E36

E27

E16

E9

E3

E143

E134

E123

E109

E96

E85

E72

E62

E53

E34

E20

E142

E133

E122

E108

E95

E84

E73

E61

E52

E43

E141

E132

E121

E107

E94

E83

E72

E60

E91

E42

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E22

E140

E131

E120

E106

E93

E82

E71

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E41

E32

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E130

E119

E105

E92

E81

E70

E58

E49

E40

E31

E20

E138

E129

E118

E104

E91

E80

E69

E39

E19

E137

E128

E117

E103

E90

E79

E68

E57

E48

E38

C114

C94

C72

C56

C50

UDA M7486-0-0

1002

M7486-CX008

PART MARKING

COMPONENT DELETES

- 8- 1 DELETE E40 (16-20546-01)
- 8- 2 DELETE E41 (16-20546-01)

COMPONENT ADDS

- 8- 5 ADD E40 (16-23207-01)
- 8- 6 ADD E41 (16-23207-01)
- 8- 7 ADD R800(13-00219-00) SOLDERING PIN 1 INTO  
FEEDTHRU BELOW E75 PIN 6 AND PIN 2 INTO  
FEEDTHRU BELOW THAT
- 8- 8 ADD MYLAR (74-29181-01 X .500 X .500) UNDER R800

WIRE ADDS - SIDE 1

- 8- 9 ADD WIRE FROM 2ND PTH HOLE BELOW E75 PIN 6 TO E76 PIN 11

PART MARKING

- 8-10 AFTER ALL REWORK IS COMPLETED MARK MODULE REV H2

ECO M7486-CX009

COMPONENT DELETES: (SIDE 1)

- 9-1 DELETE E40 (1623207-01)
- 9-2 DELETE E41 (1623207-01)

COMPONENT ADDS: (SIDE 1)

- 9-3 ADD E40 (1623779-01)
- 9-4 ADD E41 (1623779-01)

9-5 AFTER ABOVE REWORK IS COMPLETE,  
MARK MODULE REV H3

D

C

B

A

D

C

J

B

D

A

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	B-DD-5015402-0	50-15402-01	D	DRILL AND ETCH	1	
2		10-01796-00	30	MFD 25V +75-10% AL EL	1	C30
3		10-12784-00	.047	MFD 50V +80-20% CER	113	C2-C8,C10,C11,C13-C20,C22-C28, CONT C31-C37,C39-C43,C45-C54, CONT C57-C60,C62-C70,C73-C93, CONT C95-C101,C104-C106,C108-D111, CONT C115-C133
4		10-10279-00	.47	MFD 25V 20% CER	1	
5		10-13466-11	.22	MFD 50V +80-20% Z5U CER	3	C107,C112,C113
6		10-15878-00	.01	MFD 50V +80-20% CER	8	C9,C21,C29,C38,C44,C55,C61,C71
7		10-16549-00	47	MFD 10V +50-10% AL EL	4	C56,C72,C94,C114
8		11-04860-00		VZ= 3.3 5% 400 MW 1N746A	8	D1,D2,D5,D6,D9,D10,D13,D14
9		11-05275-00		PIV= 60 I0=300 MA -15NS	8	D3,D4,D7,D8,D11,D12,D15,D16
10		11-10836-00		VZ= 12.0 5% 400 MW 1N759A	1	D21
11		11-14136-01		LED 6.5MA 5V 1.2MCD	4	D17-D20
12		12-05747-00		FUSE PICO 5.0 A 125V AXIAL LEA	1	F1
13		12-10385-01		*** THIS ITEM IS NOT USED ***	-	
14		12-12965-04		PCB,HEADER 20PIN(2X05).100CC 90D	1	J2
15		12-14314-00		*** THIS ITEM IS NOT USED ***	-	
16		16-23779-01		PULSE GENERATOR 20NS ECL	2	E40,E41
17		12-16832-02		PCB,HEADER 40POS(2X20).100CC 90D	1	J3
18		12-16832-03		PCB,HEADER 50POS(2X25).100CC 90D	1	J1
19		12-18348-00		PCB,HEADER 32PIN(2X16).100CC 90D	1	J4
20		13-00202-00		47.0 .25 W 5.0 % CF	16	R19,R22,R24,R26,R41,R44,R48, CONT R50,R70,R72,R90,R92,R111,R113, CONT R122,R124
21		13-00247-00		120.0 .25 W 5.0 % CF	18	R35,R37,R39,R53,R63,R66,R76, CONT R79,R80,R94,R109,R110,R115, CONT R119,R120,R126,R127,R130
22		13-00271-00		220.0 .25 W 5.0 % CF	8	R28,R29,R57,R58,R100,R101,R132, CONT R133
23		13-00316-00		470.0 .25 W 5.0 % CF	12	R1,R2,R4,R5,R11,R87-R89,R129,

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A!DRN:		SUE BOURBEAU		DIGITAL	
ENG!	ECD NUMBER	REV	SECTION/VARIATION INDEX	DATE:	CHK'D:	DATE:	TITLE	DOCUMENT NUMBER	SIZE	CODE
---	INITIAL	A	[CA] 00 [M]	09-JUL-82	RON MICHAUD	09-JUL-82	UDA SI			
JP	M7486-CX001	B	[CB] [N]							
JP	M7486-CX002	C	[CC] [P]		JIM PULSIPHER					
JP	M7486-CX003	D	[CD] [Q]			09-JUL-82				
JP	M7486-CX004	E	[CE] [R]							
JP	M7486-CX006	F	[CF] [S]		JIM PULSIPHER					
JV	M7486-CX007	H	[CH] [T]			09-JUL-82				
JV	M7486-CX008	J	[CJ] [V]							
JV	M7486-CX009	K	[CK] [W]		ROY BOWERS		RELEASE DATE: 28-JAN-86			
JV	M7486-CX010	L	[CL] [Y]			09-JUL-82	RELEASE STATUS: RELEASED			
BASIC PART NUMBER:			ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #				
M7486			D-UA-M7486-0-0	K-DD-M7486-0-0	Z3696L.PLS	7				

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
24	24	13-00365-00	1.0	K .25 W 5.0 % CF	1	CONT R137,R139,R151
25	25	13-00437-00	3.0	K .25 W 5.0 % CF	1	R152
26	26	13-00477-00	10.0	K .25 W 5.0 % CF	1	R153
27	27	13-01317-00	10.0	.25 W 5.0 % CF	2	R145
28	28	13-01477-00	82.0	.25 W 5.0 % CF	5	R138,R141
29	29	13-02379-00	75.0	.25 W 5.0 % CF	7	R6,R13,R17,R18,R154
30	30	13-02873-00	261.0	.25 W 1.0 % RN55D-F10	8	R134-R136,R146,R147,R149,R150
31	31	13-02887-00	130.0	.25 W 1.0 % RN55D-F10	4	R33,R34,R60-R62,R64,R83,R96
32	32	13-11522-00	200.0	.25 W 5.0 % CF	18	R7,R8,R16,R23
						R36,R40,R45,R47,R52,R75,R77,
						CONT R78,R81,R95,R102,R105,
33	33	13-12114-01		R NETWORK 8-470 5.0 % 10PIN	11	CONT R116-R118,R121,R128,R131
34	34	13-12929-00	62.0	.25 W 5.0 % CF	8	Z1-Z11
						R9,R10,R31,R32,R55,R56,R107,
						CONT R108
35	35	13-18341-01	162.0	.25 W 1.0 % RN55D-F10	8	R38,R46,R59,R65,R82,R103,R104,
						CONT R106
36	36	13-18341-02	187.0	.25 W 1.0 % RN55D-F10	16	R20,R21,R25,R27,R42,R43,R49,
						CONT R51,R71,R73,R91,R93,R112,R114,
						CONT R123,R125
37	37	13-18342-00		R NETWORK 8-56.2 8-316 16PIN	4	E11,E29,E46,E65
38	38	16-11257-01		CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2	L1,L2
39	39	16-17533-00		DELAY= 250NS,5TAPS 14PIN DIP	1	E112
40	40	16-18336-00		DELAY= 10NS	4	E20,E31,E48,E49
41	41	16-18337-00		DELAY= 18NS	2	E19,E42
42	42	16-18343-00		PULSE XFMR,RATIO 1:1:1, 80UH	8	E5,E12,E18,E20,E37,E47,E56,E66
43	43	19-10534-00		74S04 INVERTER GATE-HEX 11	2	E89,E96
44	44	19-10544-00		74S74 FF-D DUAL,EDGE TRIGG	6	E73,E76,E78,E79,E86,E116
45	45	19-10545-00		74S112 FF-JK DUAL,EDGE TRIG	1	E68
46	46	19-10956-00		74S151 MUX 1 OF 8	1	E62
47	47	19-10957-00		74S175 FF-D QUAD COMMON CLO	2	E72,E82
48	48	19-11399-00		10102 NOR GATE,QUAD 2IN	4	E8,E26,E44,E45
49	49	19-11401-00		10104 AND GATE,QUAD 2IN	1	E13
50	50	19-11404-00		10107 XOR/NOR GATE,3-2IN	1	E32
51	51	19-11414-00		10124 TTL TO ECL TRNSLTR	3	E52,E53,E58
52	52	19-11415-00		10125 ECL TO TTL TRNSLTR	2	E51,E59
53	53	19-11420-00		10174 DUAL 4 TO 1 MUX	2	E33,E39
54	54	19-11573-00		74S280 PARITY GEN/CHKR,9BIT	2	E81,E120
55	55	19-11676-00		74S139 DECODER-DUAL TWO-INP	1	E143
56	56	19-11712-00		74S51 AND-OR GATE-INVERT D	4	E80,E99,E109,E113
57	57	19-12389-00		74S08 AND GATE-QUAD 2IN,PO	1	E110
58	58	19-12801-00		LS02 NOR-GATE-QUAD 2IN	1	E100
59	59	19-12816-00		LS32 OR GATE-QUAD 2IN,POS	1	E88
60	60	19-12833-00		LS109 FF-JK DUAL,POS EDGE	1	E87
61	61	19-10548-00		74S157 MUX 1 OF 2 (QUAD)	1	
62	62	19-12848-00		LS158 MUX 1 OF 2 (QUAD)	1	E101
63	63	19-12853-00		LS175 FF-D QUAD	1	E102
64	64	19-12860-00		LS259 LATCH 8BIT	1	E114
65	65	19-12863-00		LS273 FF-D OCTAL W/CLEAR	2	E85,E123
66	66	19-12864-00		LS273 LATCH,QUAD-S-R	1	E77

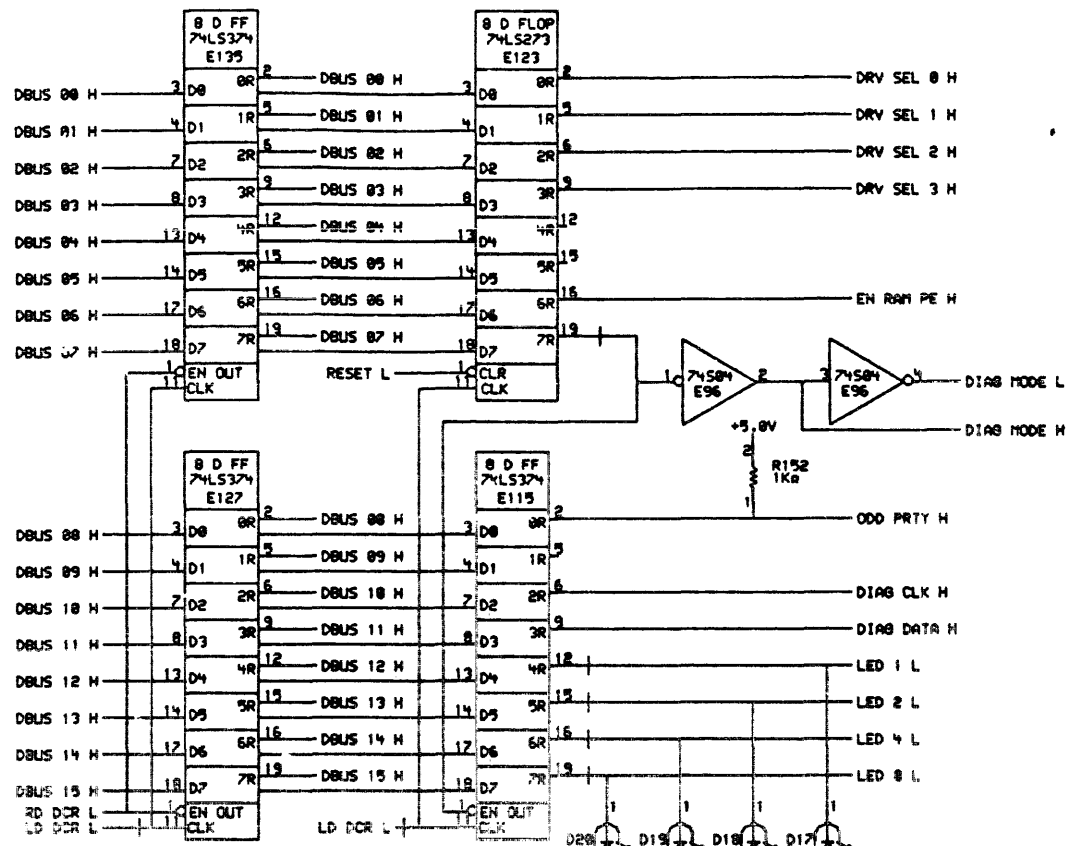
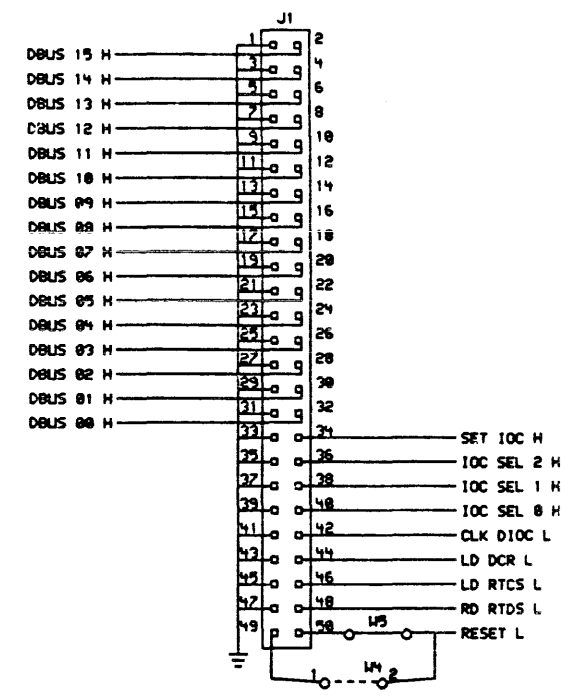
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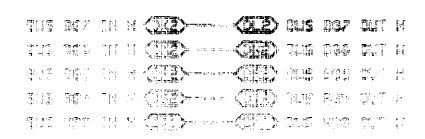
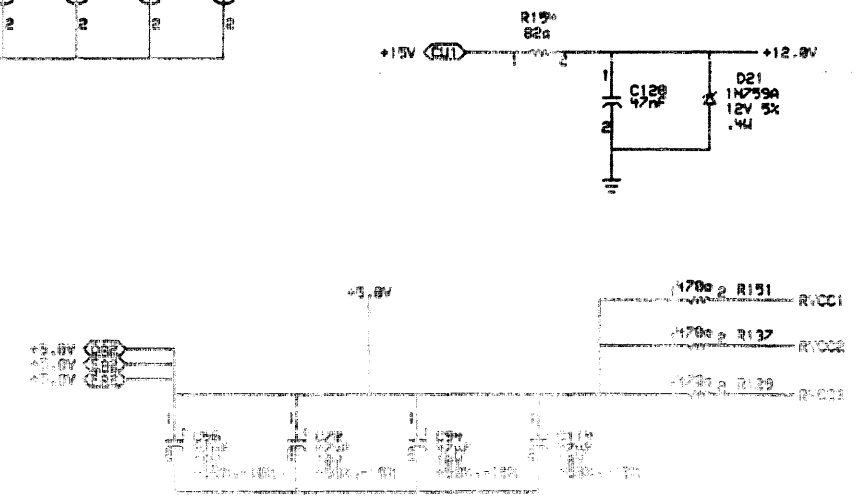
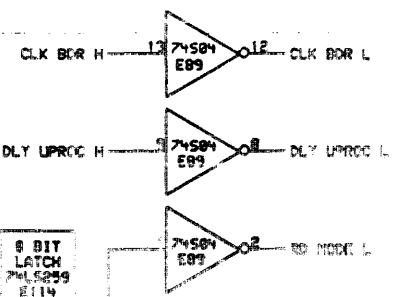
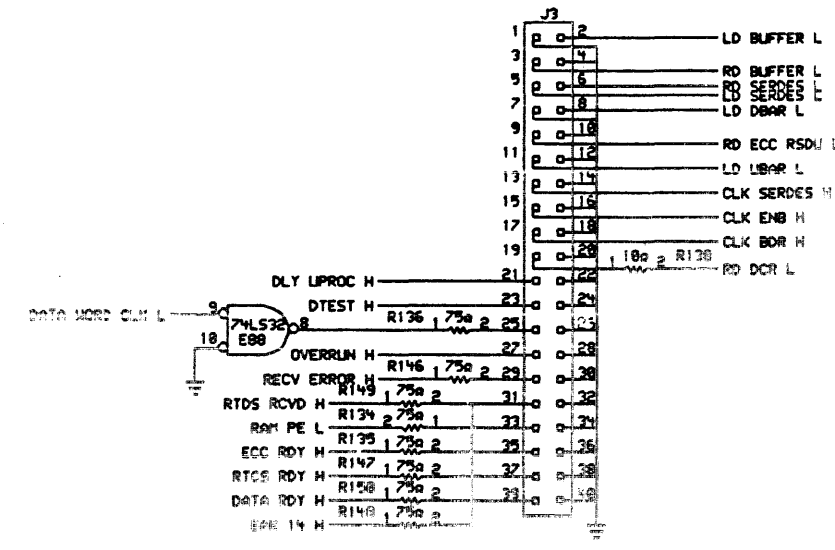
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
					00 H4	
67	67	19-13340-00		74S32 OR GATE-QUAD 2IN	2	E60,E69
68	68	19-13671-01		74S374 FF-D,OCTAL,TR1 STATE	8	
69	69	19-13939-00		LS191 COUNTER,SYNCHR. UP/D	2	E94,E95
70	70	19-14082-01		74S163 COUNTER,SYNCH,UP/DOW	2	E70,E71
71	71	19-14214-00		LS374 FF-D OCTAL EDGE TRIG	7	E83,E84,E115,E126,E127,E135, CONT E146
72	72	19-15193-00		LS244 DRIVER,LINE,OCTAL,TR	2	E136,E145
73	73	19-16574-00		10114 RECEIVER,LINE,TRIPLE	8	E4,E10,E17,E25,E28,E36,E55,E64
74	74	19-17043-02	DC	018 SERIALIZER/DESERIALI	2	
75	75	19-17289-00		100102 OR/NOR GATE,QUINT,2	2	E21,E38
76	76	19-17839-00		10192 DRIVER, LINE, QUAD D	8	E3,E9,E16,E24,E27,E35,E54,E63
77	77	19-17956-00		LS280 PARITY GEN/CHK,9BIT,	1	E61
78	78	19-18352-00	PS	4317 DC-DC CONVERTER	1	E1
79	79	19-18353-00		10231 FF-D, MASTER-SLAVE,	6	E22,E23,E34,E43,E50,E57
80	80	1-15102-00	DEC	DC309 NMOS CUSTOM LSI FOR	1	E144
81	81	21-18054-03		16K MOS RAM 55NS 2	2	E90,E91
82	82	21-19250-00		4KX4 STATIC RAM 55NS	16	E92,E93,E103-E105,E117-E119, CONT E128-F131,E137-E140
83	83	90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	5	W1-W3,W5,W6
84	84	12-16988-02		HANDLE,MODULE,HEX TWO EJECTORS	1	
85	85	90-00024-01		EYELET,ROLLED 0.1210DX0.192	12	
86	86	10-10274-02		1 MFD 50V +80-20% CER	1	C500
87	87	12-16188-03		TAPE,MYLAR ADH BK 3.00"X2.50"	1	
88	88	12-16188-01		TAPE,MYLAR ADH BK 1.00"X2.00"	1	
89	89	13-00219-00		68.0 .25 W 5.0 % CF	1	R800
90	90	12-16188-02		TAPE,MYLAR ADH BK .50"X .50"	1	
91	91			*** THIS ITEM IS NOT USED ***	-	

1 GEN: 1. 1917043-00 MAY BE USED IN E124 ONLY UNTIL STOCK IS DEPLETED  
 2 GEN: ONCE STOCK IS DEPLETED, USE ONLY 1917043-02

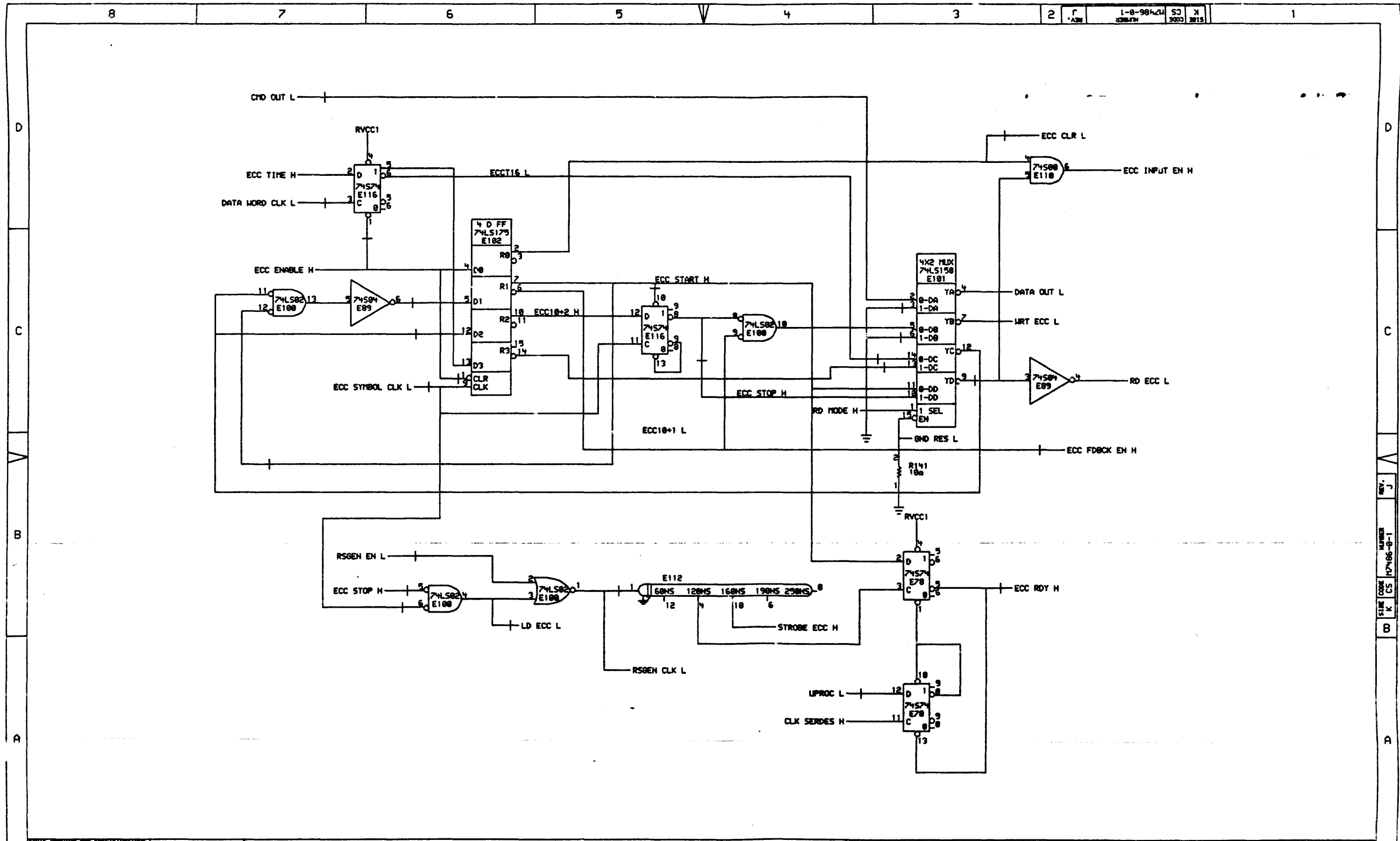
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UDA SI		K	PL	M7486-0-DBP	L



NOTE: UNLESS OTHERWISE SPECIFIED ALL CAPACITORS ARE 50V, ±20%, 20%. ALL RESISTORS ARE 1/4W, 5%.



REV. J  
NUMBER 117406-01  
DATE 13  
BY

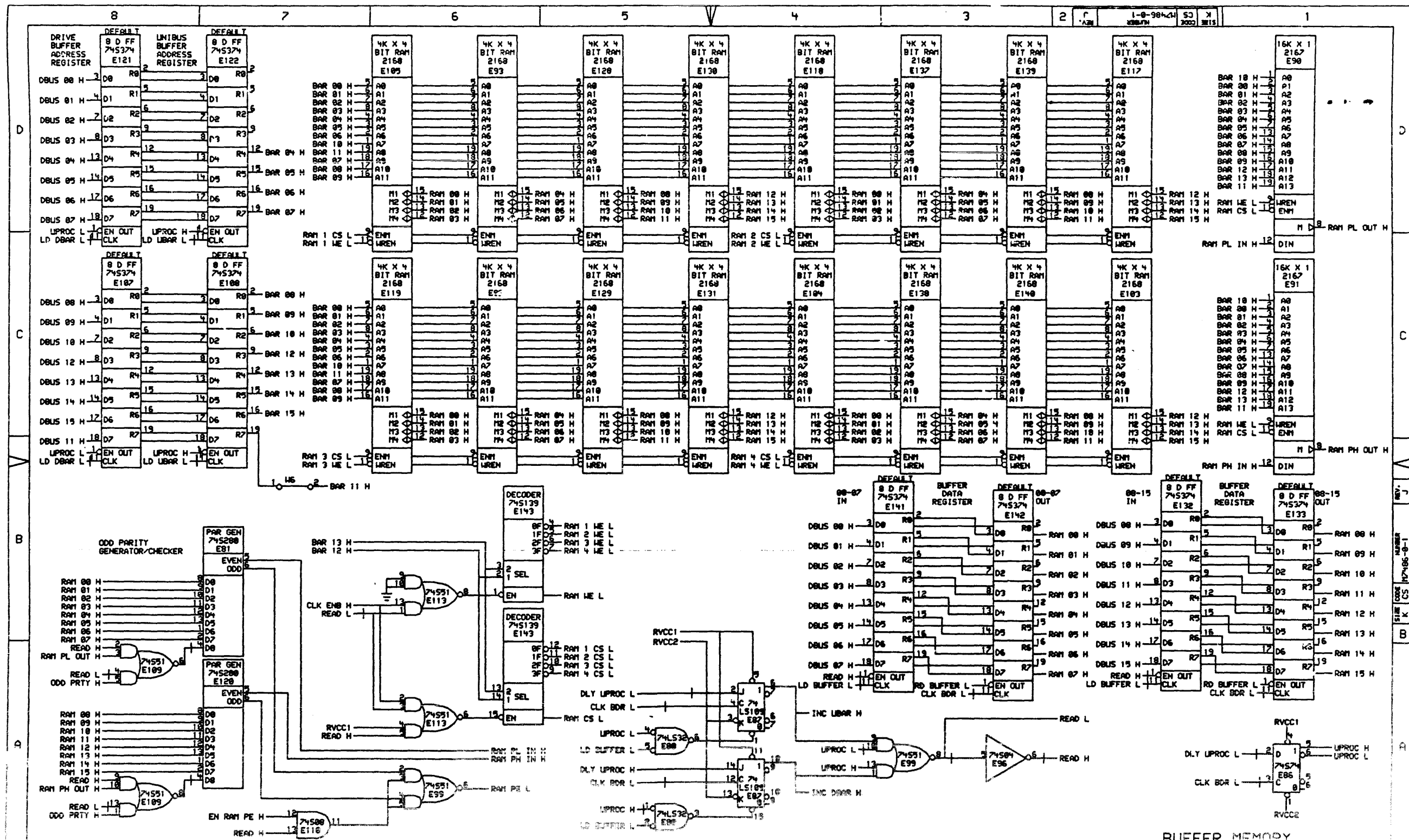


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REVISIONS	
CHK	CHANGE NO. REV

	DESIGNED BY: SCHNEIDER CHECK'D BY:	DATE: 11/17/85 DATE: 11/17/85	ENG: [Signature] DATE: 11/17/85	TITLE:
	FIRST USED ON OPTION MODEL: LDA52	NEXT HIGHER ASSEMBLY: B-DD-17486-0	SHEET: 2 OF 14	SIZE CODE: K CS

REV. J  
 NUMBER 17486-0-1  
 SIZE K CS

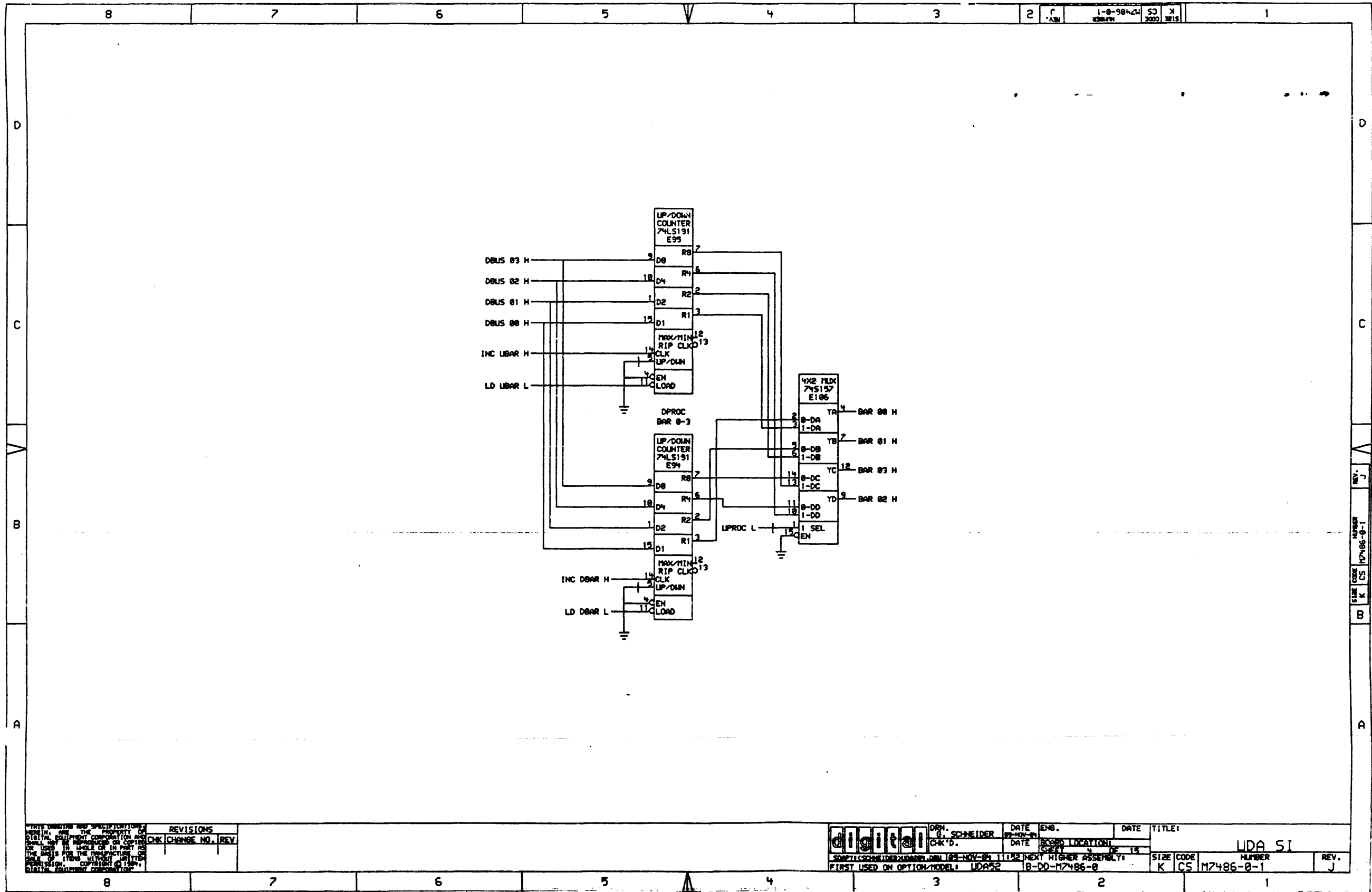


REVISIONS

REV	DESCRIPTION
1	INITIAL DESIGN
2	REVISED TO ACCOMMODATE...
3	REVISED TO ACCOMMODATE...

DATE ENG. DATE TITLE

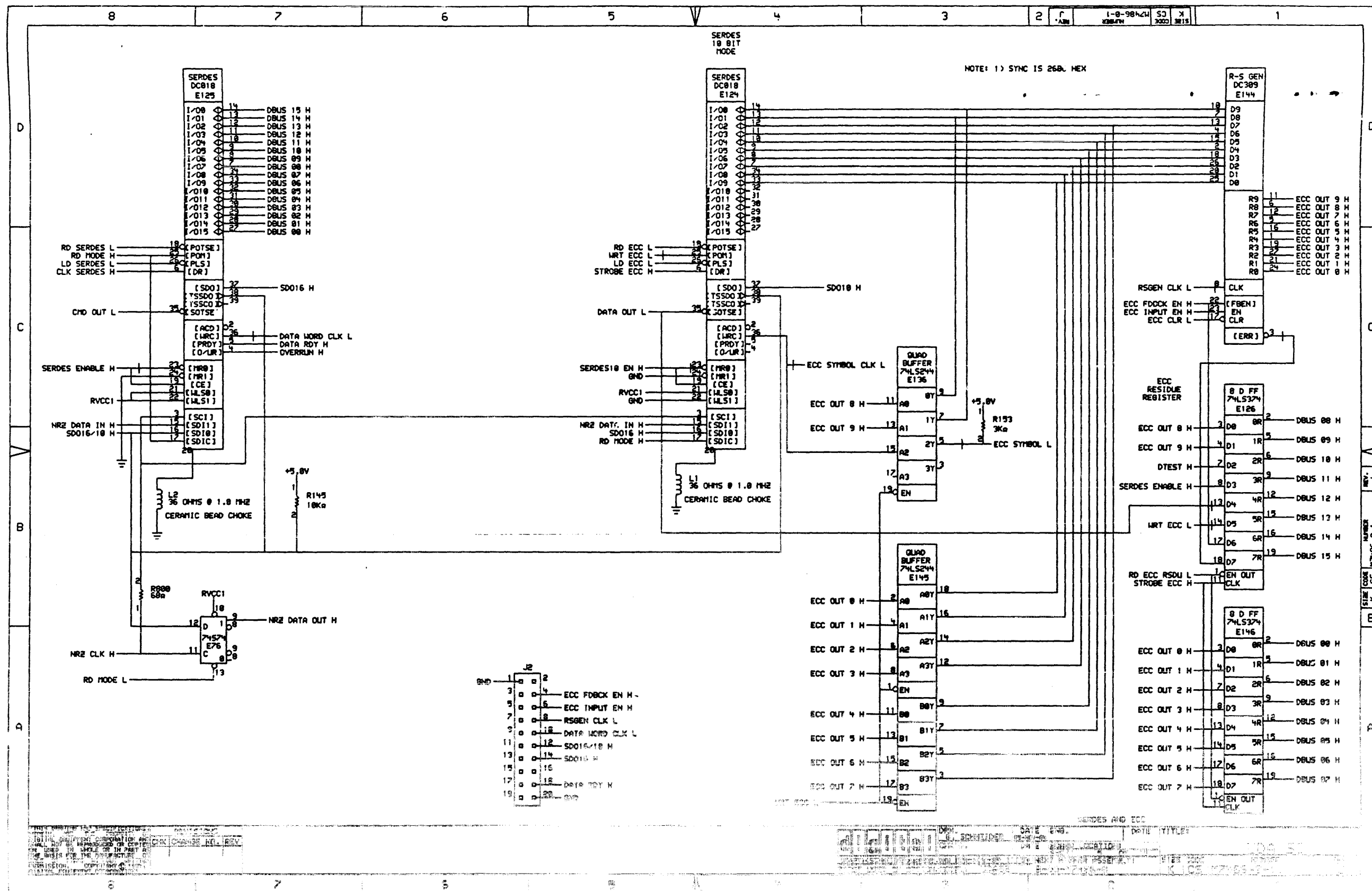
DATE	ENG.	TITLE
12-01-68	J. D. G.	DATA MEMORY
12-02-68	J. D. G.	DATA MEMORY



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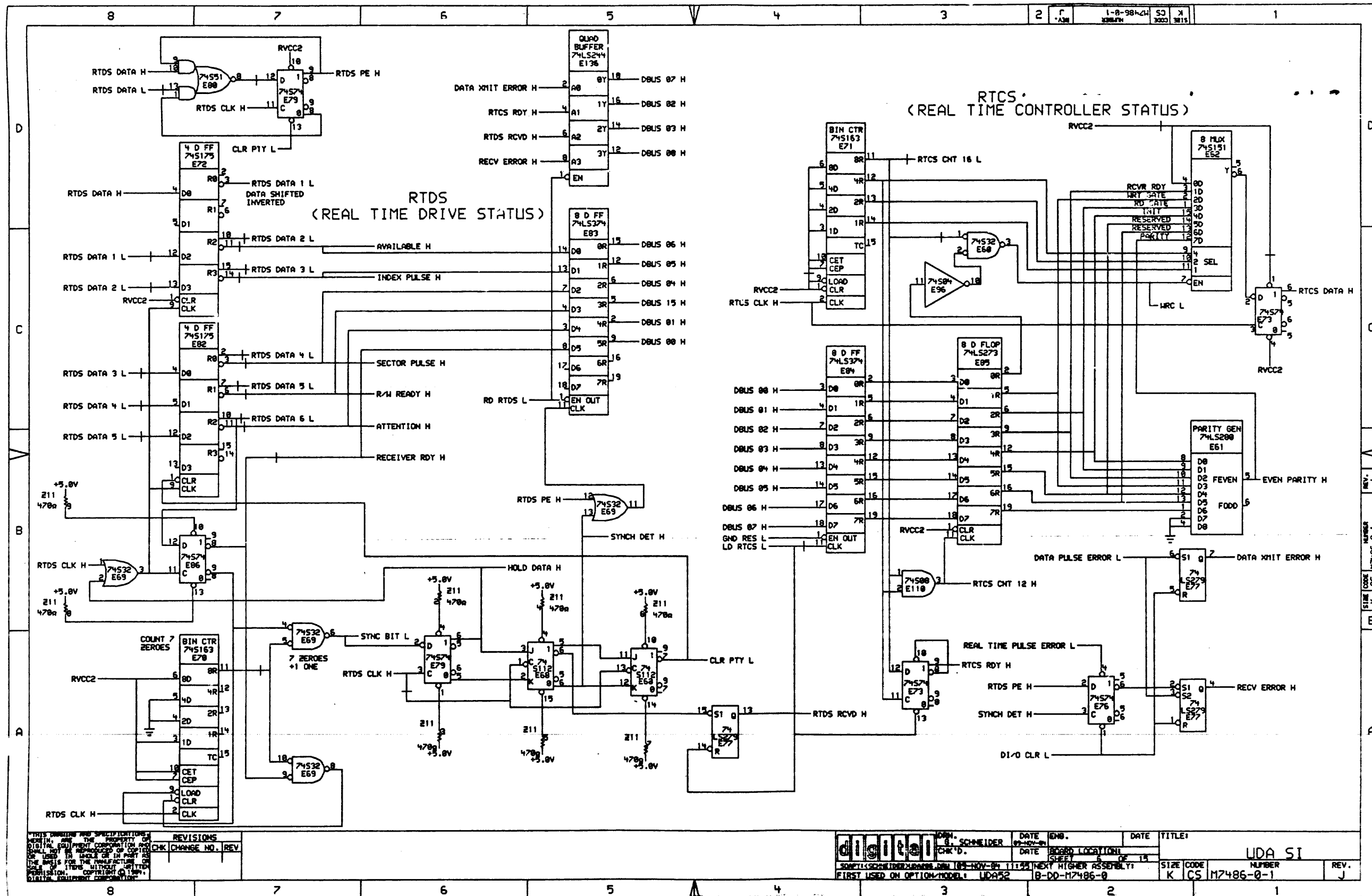
REVISIONS	
CHK	CHANGE NO. REV

	ORN. SCHNEIDER CK'D.	DATE 02-NOV-81 DATE	ENG.	DATE	TITLE:
	SOPTIC SCHNEIDER/DIGITAL, 1000 WILSON AVENUE, ANDOVER, MASS 01810 FIRST USED ON OPTION/MODEL: LDA52	DATE 11-NOV-81 DATE	NEXT HIGHER ASSEMBLY: B-00-M7486-0	SIZE CODE K CS	NUMBER M7486-0-1



DATE: 12/15/98  
 DRAWN: [Name]  
 CHECKED: [Name]  
 APPROVED: [Name]

DATE: 12/15/98  
 TITLE: SERDES AND ECC

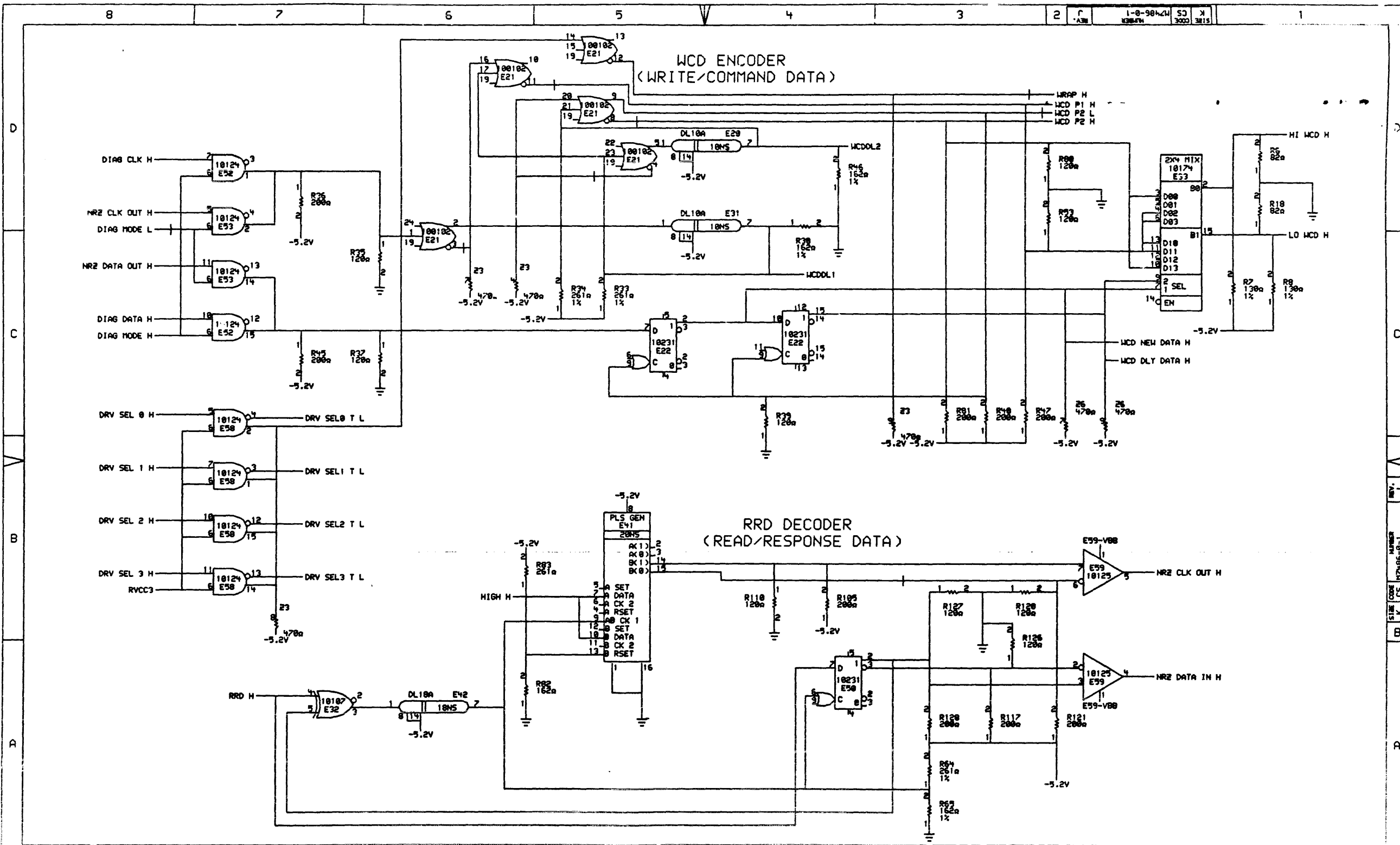


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REV.	CHG.	NO.	REV.

	DESIGNED BY: SCHNEIDER DATE: 02-10-74 CHECKED BY: SLEEV DATE: 02-10-74	ENGR. DATE: 02-10-74 BOARD LOCATION: SLEEV OF 13	TITLE: UDA SI NUMBER: M7486-0-1 REV.: J
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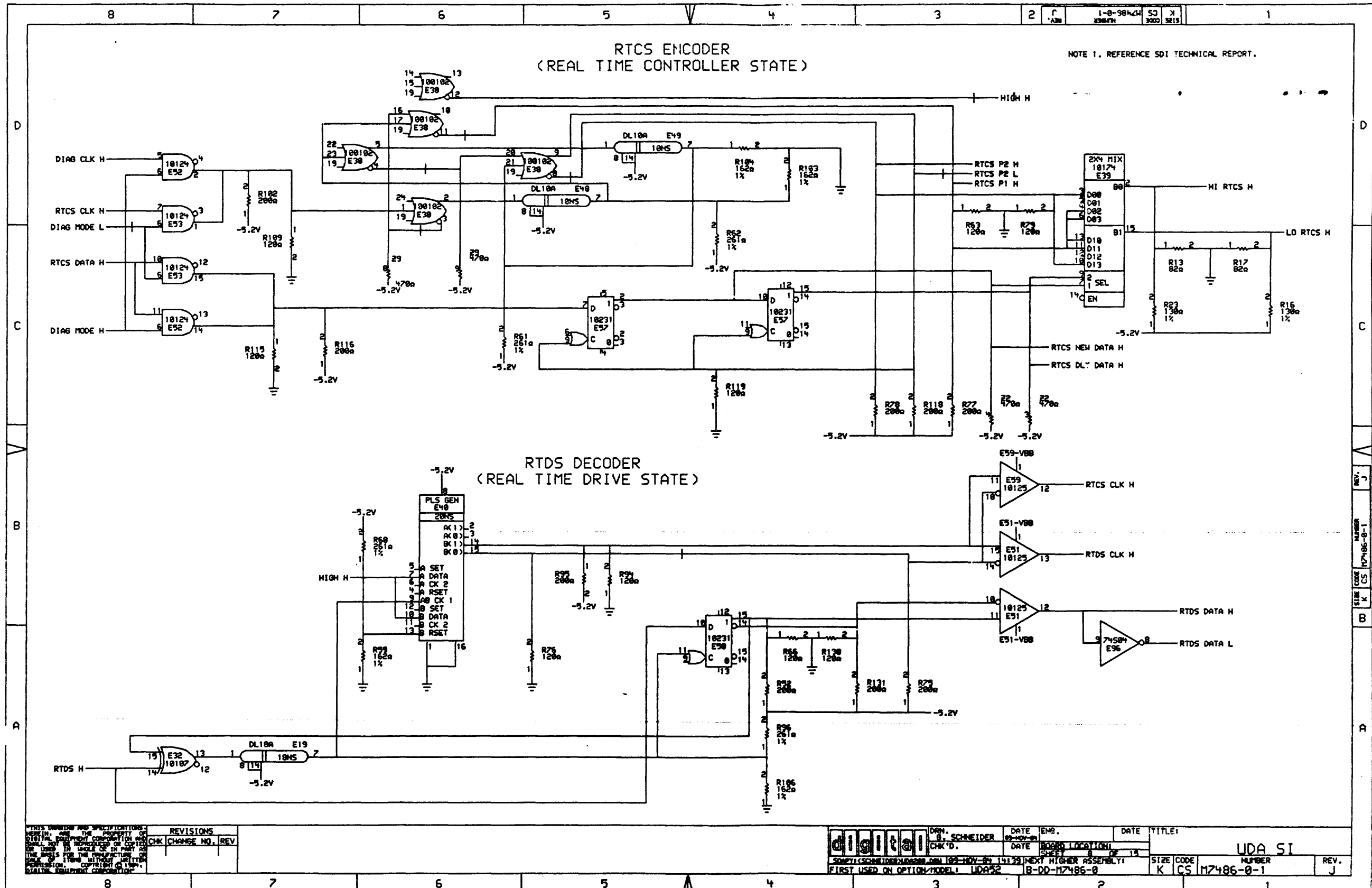
REV. J  
 NUMBER M7486-0-1  
 CS K  
 SIZE CODE



NO.	DESCRIPTION	DATE	BY
1	REVISIONS		
2	CHANGE NO. 100V		

DESIGNED BY	B. SCHNEIDER	DATE	ENG.	DATE	TITLE
CHECKED BY		DATE	DESIGN LOCATION		
LIDA SI					
KCS 107486-B-1					



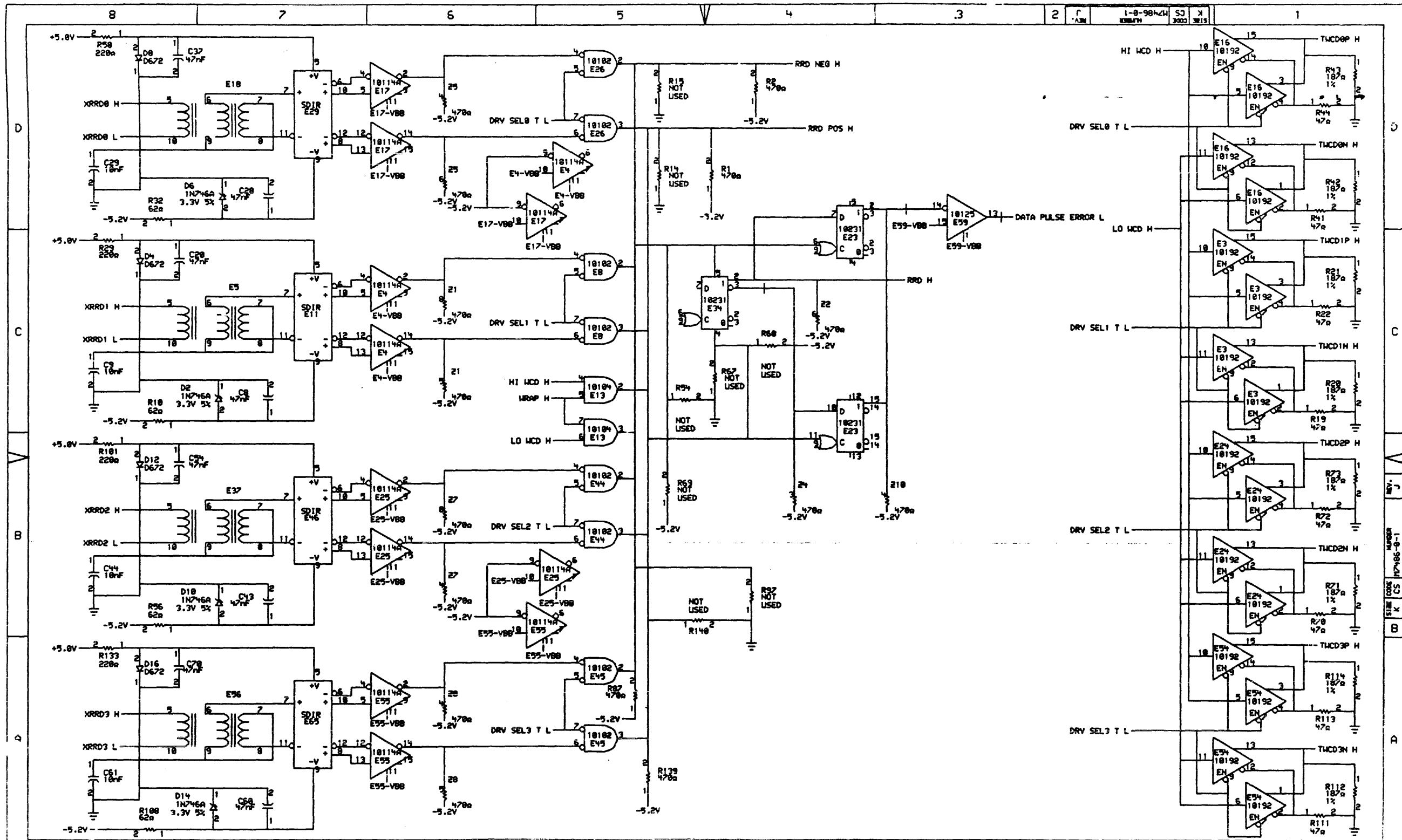


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REVISIONS	
CHK	CHANGE NO. REV

<b>digital</b>	DRW. B. SCHNEIDER	DATE 09-NOV-84	ENG.	DATE	TITLE
	CHK'D.	DATE	BOARD LOCATION	SHEET	OF 15
FIRST USED ON OPTION MODEL: LDA52		NEXT HIGHER ASSEMBLY: 18-DD-M7486-0		SIZE	CODE

UDA SI	
NUMBER	REV.
K CS M7486-0-1	J

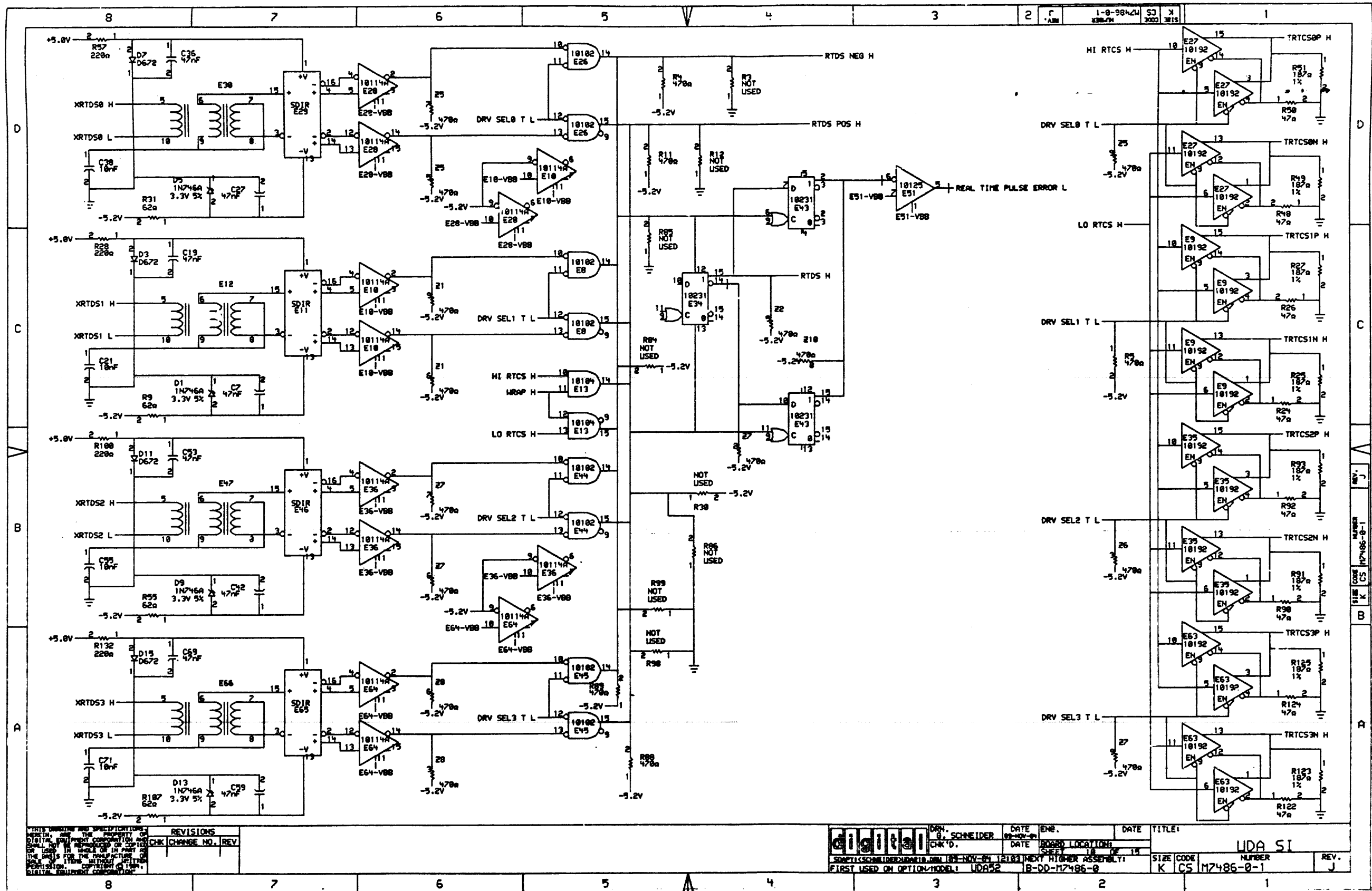


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NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

DWG. NO.	DATE	ENG.	DATE	TITLE
UDA SI				
CHK'D.	DATE	DESIGN LOCATION	UDA SI	
			SIZE	CODE
			K	CS
FIRST USED ON OPTION/MODEL		NUMBER		REV.
UDA SI		M7486-0-1		J

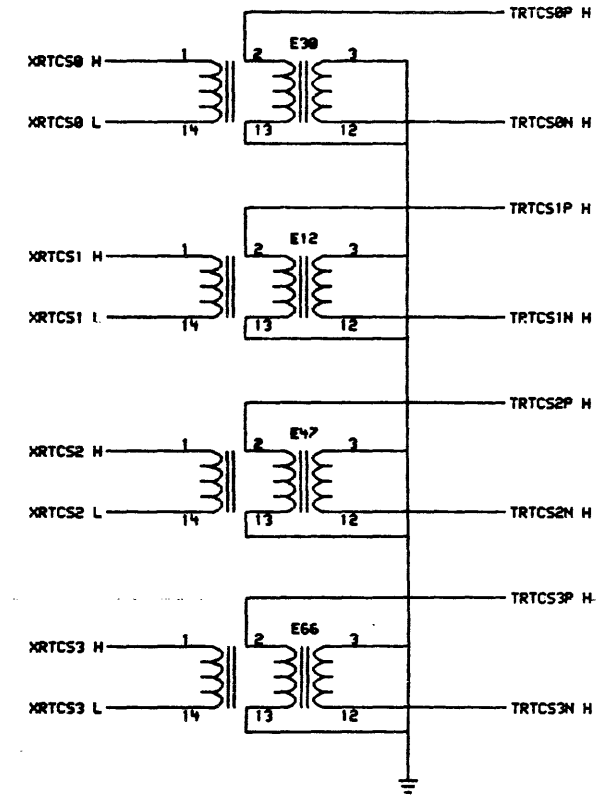
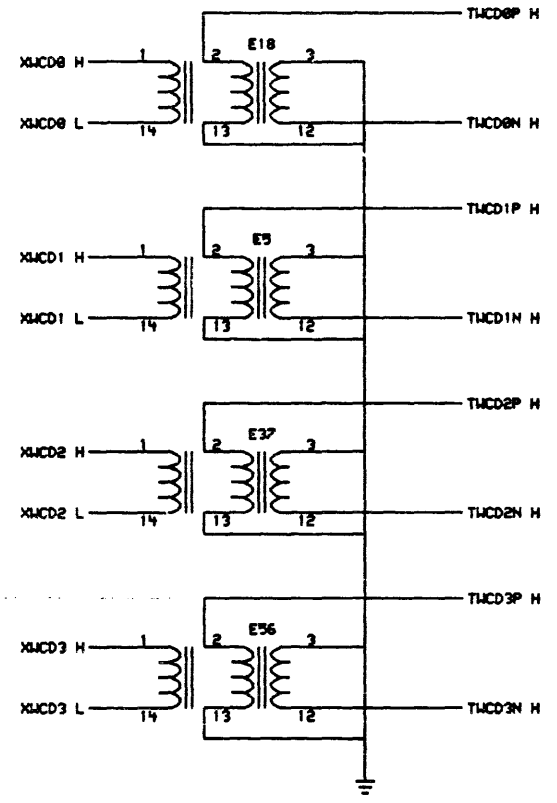
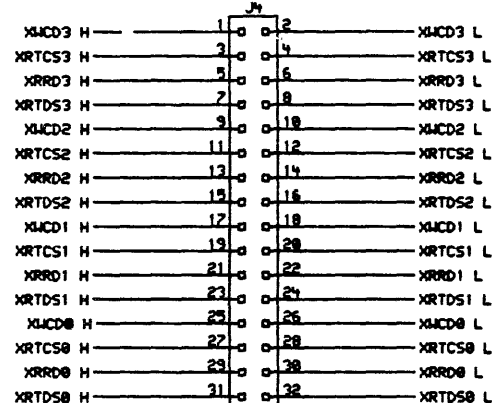
REV. J  
 NUMBER 1  
 CS M7486-0-1



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CHK	CHANGE NO.	REV

	DRN. SCHNEIDER	DATE 09-NOV-81	ENG.	DATE	TITLE: UDA 51
	CHK'D.	DATE	BOARD LOCATION: SHEET 18 OF 14		
FIRST USED ON OPTION/MODEL: UDA52 B-DD-M7486-0					SIZE CODE NUMBER: K CS M7486-0-1
					REV. J



REV. J  
NUMBER 17486-B-1  
CS K CS

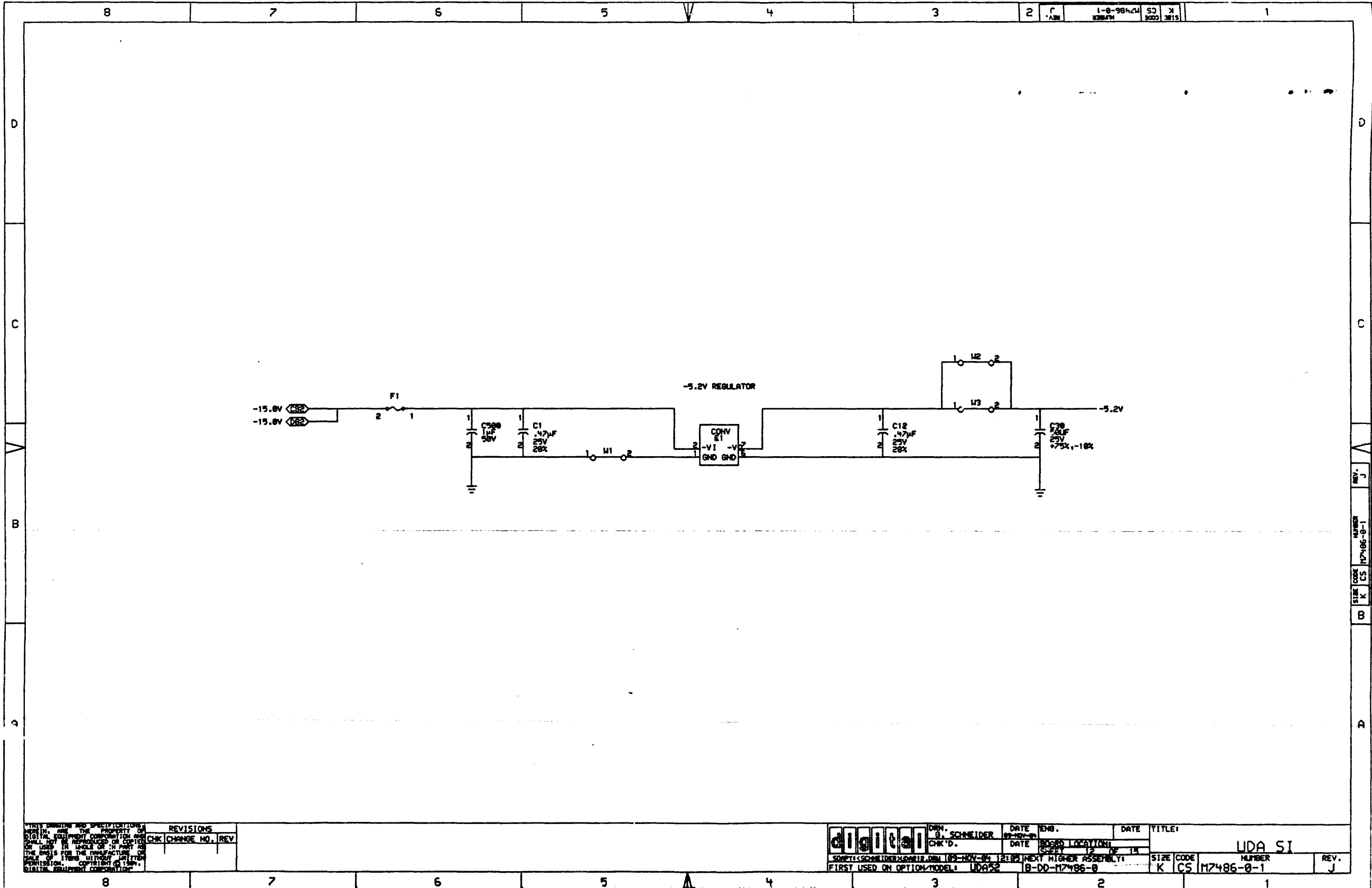
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REVISIONS
CHK/CHANGE NO. /REV

**digital**

ORN. B. SCHEIDER DATE ENG. DATE  
CHK'D. DATE BOARD LOCATION  
FIRST USED ON OPTION MODEL LDA52 18-DD-17486-B

TITLE: UDA SJ  
SIZE CODE NUMBER REV.  
K CS 17486-B-1



REVISIONS	
CHK	CHANGE NO., REV

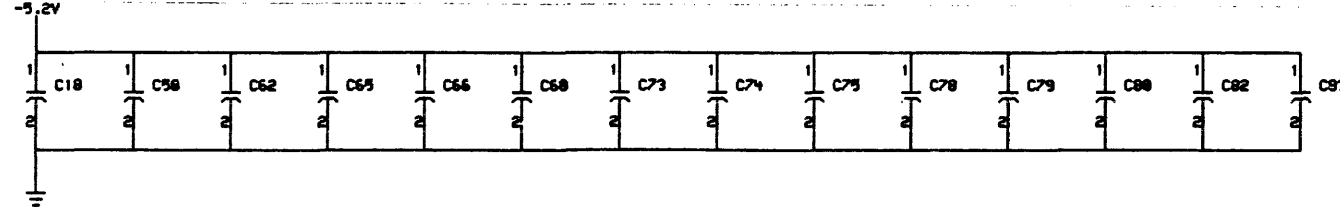
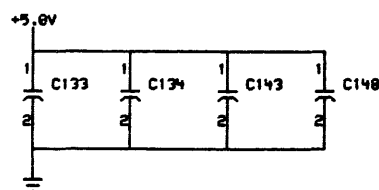
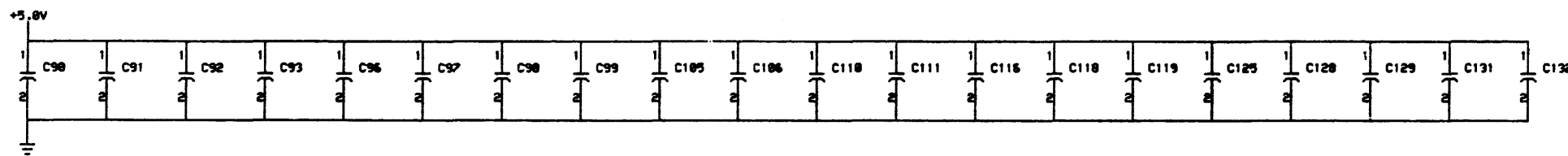
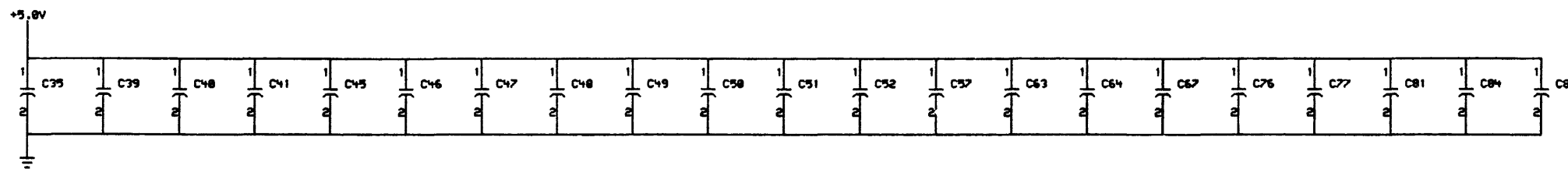
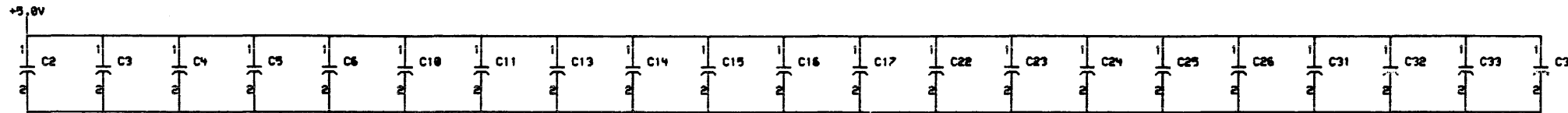
	ORN. G. SCHNEIDER DATE 89-NOV-89 CHK'D.	DATE 89-NOV-89 DESIG. LOCATION DE 1M	TITLE:
	50611 SCHNEIDER/DAVID/DAV 89-NOV-89 2189 NEXT HIGHER ASSEMBLY	SIZE CODE NUMBER K CS M7486-0-1	REV. J
	FIRST USED ON OPTION/MODEL: UDA52	B-D0-117486-0	

REV. J  
 NUMBER M7486-0-1  
 SIZE CODE CS  
 B

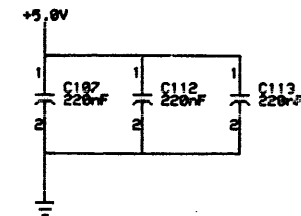
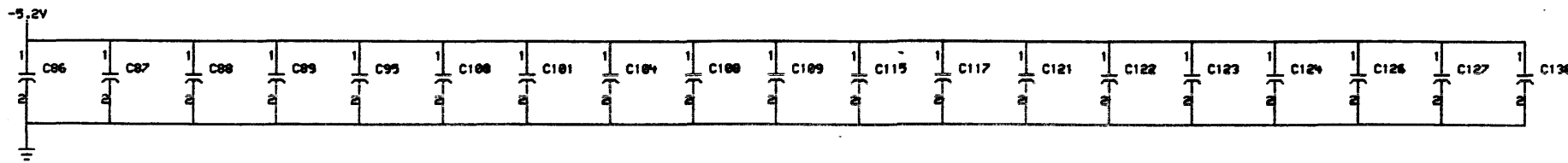
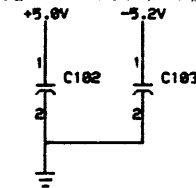
8 7 6 5 4 3 2 1

1-8-98 KCH S3 X  
 2003 2013

NOTE: UNLESS OTHERWISE SPECIFIED, ALL CAPACITORS ON THIS SHEET ARE:  
 47nF, 50V, +80%, -20%.



NOTE: C182 AND C183 ARE FOR  
 FERRITE BEAD USE ONLY.



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REV.	CHG.	NO.	REV.



DRN. SCHNEIDER DATE ENG. DATE  
 CAC'D. DATE BOARD LOCATION: 1A DE 15  
 FIRST USED IN OPTION MODEL LDA52 B-00-M7486-0

TITLE: UDA S1  
 SIZE CODE NUMBER REV.  
 X CS M7486-0-1 J

8 7 6 5 4 3 2 1

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)		DBUS 00 H .....		ECC INPUT EN H .....	
KEY:		SS-VH,D		DBUS 01 H .....		ECC OUT 0 H .....	
Schematic Sheet		Horizontal location (1-8)		DBUS 02 H .....		ECC OUT 1 H .....	
+12.0V .....		1-B1,L		DBUS 03 H .....		ECC OUT 2 H .....	
+15V .....		1-B2,R <CU1>		DBUS 04 H .....		ECC OUT 3 H .....	
+5.0 V .....		1-B4,R		DBUS 05 H .....		ECC OUT 4 H .....	
+5.0V .....		1-A3,D 1-C3,D 5-B7,D 5-C3,D 9-A8,R 9-B8,R		DBUS 06 H .....		ECC OUT 5 H .....	
		9-C8,R 9-D8,R 10-A8,R 10-B8,R 10-C8,R 10-D8,R 13-A2,D 13-B2,D		DBUS 07 H .....		ECC OUT 6 H .....	
		13-B8,D 13-C8,D 13-D8,D 1-A3,R <DA2> 1-A3,R <EA2>		DBUS 08 H .....		ECC OUT 7 H .....	
		1-A3,R <FA2>		DBUS 09 H .....		ECC OUT 8 H .....	
-15.0V .....		12-C7,R <CB2> 12-C7,R <DB2>		DBUS 10 H .....		ECC OUT 9 H .....	
-5.2V .....		7-A2,D 7-B3,R 7-B4,D 7-B5,D 7-B6,D 7-C1,R		DBUS 11 H .....		ECC RDY H .....	
		7-C5,R 7-C7,D 7-C7,D 8-A3,L 8-B4,R 8-B5,D 8-B6,D 8-B6,D		DBUS 12 H .....		ECC START H .....	
		8-C2,R 8-C4,D 8-C6,D 8-C7,D 8-D7,D 9-A5,D 9-A5,R 9-A8,R		DBUS 13 H .....		ECC STOP H .....	
		9-B5,D 9-B6,R 9-B8,R 9-C4,L 9-C8,R 9-D4,D 9-D4,D 9-D6,R		DBUS 14 H .....		ECC SYMBOL CLK L .....	
		9-D8,R 10-A5,D 10-A5,R 10-A8,R 10-B4,L 10-B6,R 10-B8,R 10-C2,D		DBUS 15 H .....		ECC SYMBOL L .....	
		10-C5,L 10-C8,R 10-D5,D 10-D5,D 10-D6,R 10-D8,R 12-C2,L 13-A8,D				ECC TIME H .....	
		13-B1,D 13-B7,D				ECC10+2 H .....	
ATTENTION H .....		5-C6,L		DI/O CLR L .....		ECCT16 L .....	
AVAILABLE H .....		6-C6,L		DIAG CLK H .....		EN RAM PE H .....	
BAR 00 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-C4,L		DIAG DATA H .....		EVEN PARITY H .....	
BAR 01 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DIAG MODE H .....		GND .....	
BAR 02 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DIAG MODE L .....		GND RES L .....	
BAR 03 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DLY UPROC H .....		HI RTCS H .....	
BAR 04 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DLY UPROC L .....		HI WCD H .....	
BAR 05 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DRV SEL 0 H .....		HIGH H .....	
BAR 06 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DRV SEL 1 H .....		HOLD DATA H .....	
BAR 07 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DRV SEL 2 H .....		INC DBAR H .....	
BAR 08 H .....		3-C1,R 3-C7,R 3-D1,R 3-D7,R 4-B4,L		DRV SEL 3 H .....		INC LBAR H .....	
BAR 09 H .....		3-C1,R 3-C7,L 3-C7,R 3-D1,R 3-D7,R		DRV SEL 0 T L .....		INDEX PULSE H .....	
BAR 10 H .....		3-C1,R 3-C7,L 3-C7,R 3-D1,R 3-D7,R		DRV SEL 1 T L .....		IOC SEL 0 H .....	
BAR 11 H .....		3-B7,L 3-C1,R 3-C7,R 3-D1,R 3-D7,R		DRV SEL 2 T L .....		IOC SEL 1 H .....	
BAR 12 H .....		3-B7,R 3-C1,R 3-C7,L 3-D1,R		DRV SEL 3 T L .....		IOC SEL 2 H .....	
BAR 13 H .....		3-B7,R 3-C1,R 3-C7,L 3-D1,R		DTEST H .....		LD BUFFER L .....	
BAR 14 H .....		1-A7,R 3-C7,L		E10-V88 .....		LD DBAR L .....	
BAR 15 H .....		3-C7,L		E17-V88 .....		LD DCR L .....	
BUS BG4 IN H .....		1-A8,R <DS2>		E25-V88 .....		LD ECC L .....	
BUS BG4 OUT H .....		1-A8,L <DT2>		E28-V88 .....		LD RTCS L .....	
BUS BG5 IN H .....		1-A8,R <DP2>		E36-V88 .....		LD SERDES L .....	
BUS BG5 OUT H .....		1-A8,L <DR2>		E4-V88 .....		LD LBAR L .....	
BUS BG6 IN H .....		1-A8,R <DM2>		E51-V88 .....		LED 1 L .....	
BUS BG6 OUT H .....		1-A8,L <DN2>		E55-V88 .....		LED 2 L .....	
BUS BG7 IN H .....		1-A8,R <DK2>		E59-V88 .....		LED 4 L .....	
BUS BG7 OUT H .....		1-A8,L <DL2>		E64-V88 .....		LED 8 L .....	
BUS MP6 IN H .....		1-A8,R <CA1>		ECC CLR L .....		LO RTCS H .....	
BUS MP6 OUT H .....		1-A8,L <CB1>		ECC ENABLE H .....		LO WCD H .....	
CLK BOR H .....		1-B5,R 1-B6,L		ECC FDBCK EN H .....		NRZ CLK H .....	
CLK BOR L .....		1-B5,L 3-A1,R 3-A1,R 3-A3,R 3-A5,R 3-A5,R				NRZ CLK OUT H .....	
CLK DI0C L .....		1-A6,R 1-C6,L				NRZ DATA IN H .....	
CLK ENB H .....		1-B6,L 3-B7,R				NRZ DATA OUT H .....	
CLK SERDES H .....		1-B6,L 2-A4,R 5-C8,R				ODD PRTY H .....	
CLR PTY L .....		6-A4,L 6-D7,R				OVERRIDE H .....	
CND OUT L .....		1-A5,L 2-D7,R 5-C8,R				R/W READY H .....	
DATA OUT L .....		2-C3,L 5-C5,R				RAM 00 H .....	
DATA PULSE ERROR L .....		6-B2,R 9-D3,L				RAM 01 H .....	
DATA RDY H .....		1-A7,R 5-A5,L 5-C7,L				RAM 02 H .....	
DATA WORD CLK L .....		1-B8,R 2-D7,R 5-A5,L 5-C7,L				RAM 03 H .....	
DATA XMIT ERROR H .....		6-B1,L 6-D5,R				RAM 04 H .....	

REVISIONS	CHK	CHANGE NO.	REV.

DYN. SCHNEIDER		DATE ENG.	DATE	TITLE:
CHK'D.		DATE	ISSUE LOCATION	184 SI
FIRST USED ON OPTION MODEL: LIDA32		DATE	REV. 14 OF 15	
SIZE CODE	K CS M7486-0-1	NUMBER		REV. J

