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RLV11 BUS CONTROL

32 X 8 ROM/PROM PATTERN SPEC.

32 X 8 ROM/PROM PATTERN SPEC.

TIMING DIAGRAM (RLV11)

K-PS-23Ø17E2-Ø-Ø (SHEETS 2-17 ONLY) 2048 X 8 ROM/PROM PATTERN SPEC.

D-UA-M8Ø14-Ø-Ø

D-TD-RLV11+0-4

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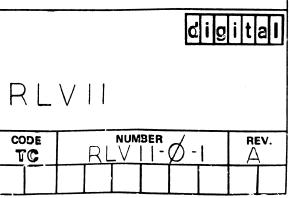
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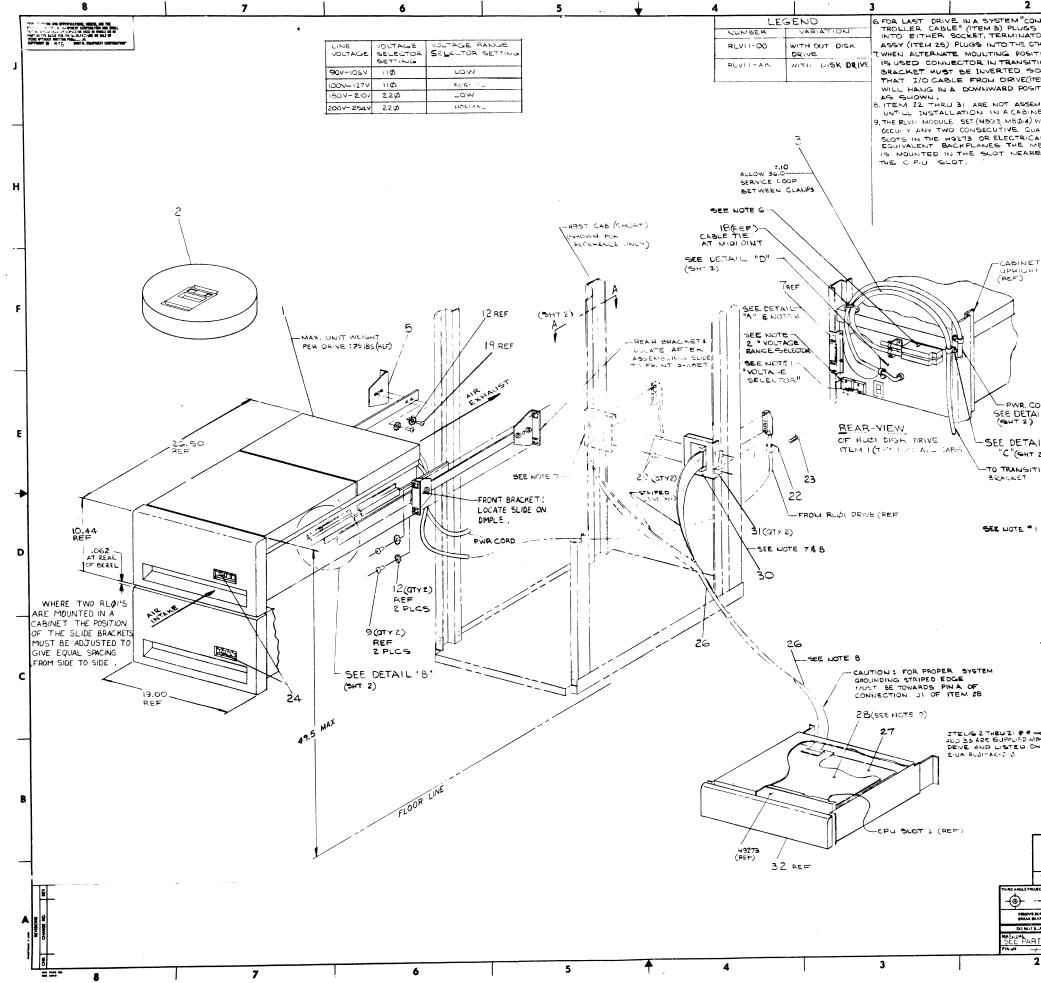
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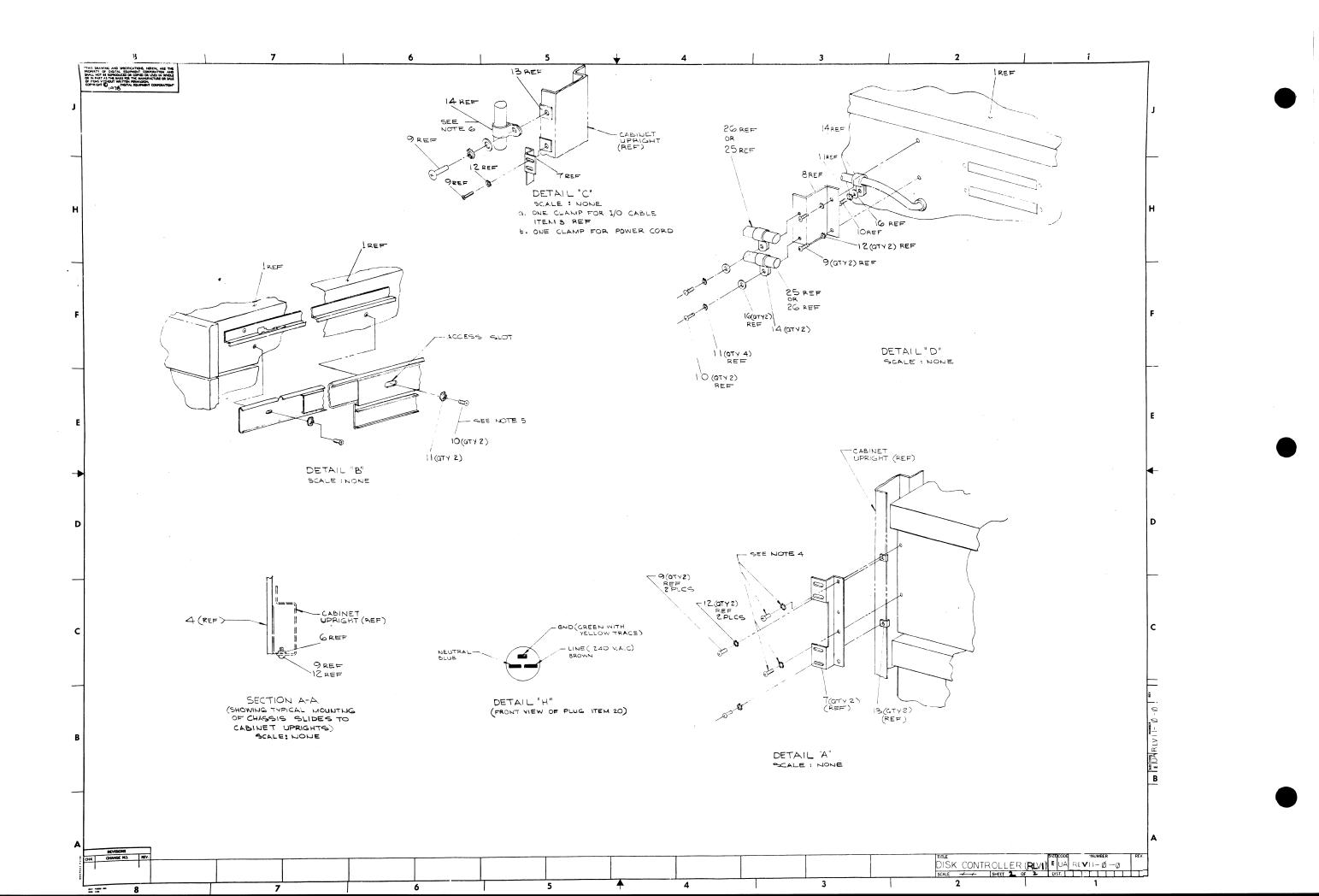
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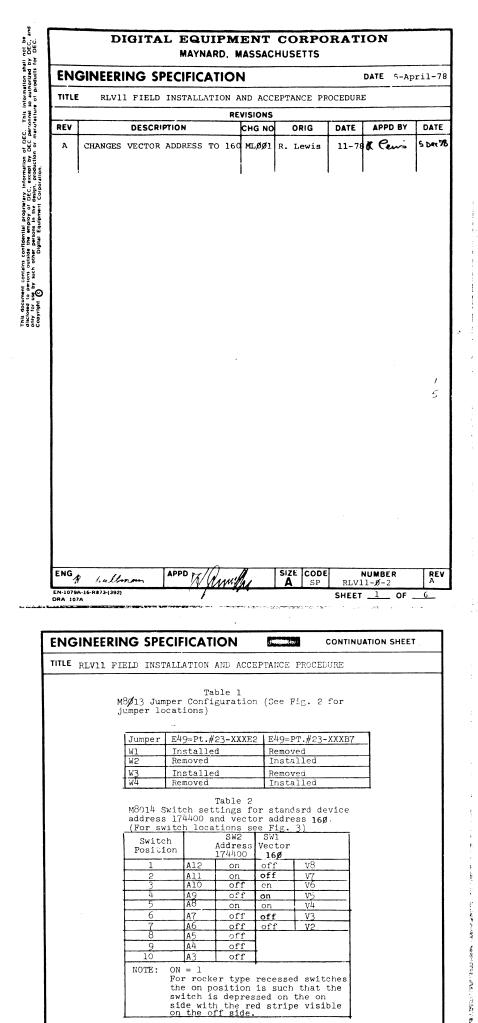
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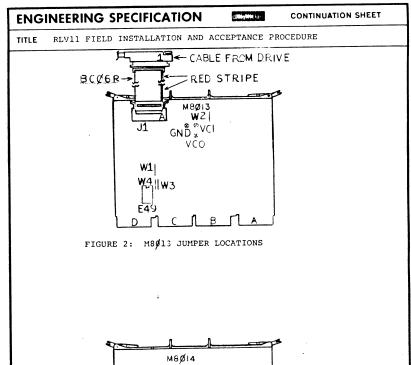
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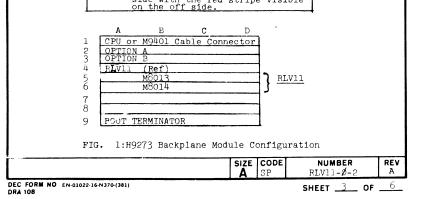


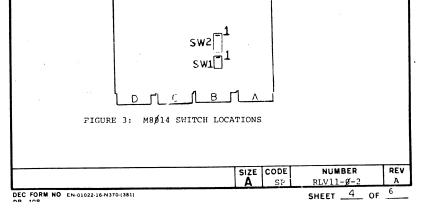


ENG	INEERING SPECIFICATION CONTINUATION SHEET
TITLE	RLV11 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
1.	GENERAL
	This procedure defines the configurations, module utilization, installation, acceptance and diagnostic startup criteria for the RLV11 Disk Controller. Refer to RL01 Service Manual (BK-RL01-SV) for drive acceptance procedure.
11.	CONFIGURATION
	A. Setup switches and jumpers as indicated in tables 1 and 2 for type of ROM, standard Device Address 174400; and Vector Address 150. See Pigures 2 and 3 for switch and jumper locations. For non standard device and Vector Address settings use table 2 setting corresponding address or Vector switch on for a 1 off for a 0.
111.	MODULE UTILIZATION
	A. Allowable Backplanes
	H9273 4X9 slot backplane for the BAll-N or ll/03L or an electrical equivalent with LSI-ll Bus on the A and B connectors and C,D interconnect bus on the C and D connectors.
	B. Module Order
	Modules are inserted in any two consecutive slots with the M8013 inserted in the slot which is electrically closest to the CPU and the M8014 inserted in the slot directly behind as in Figure 1.
	C. System Guidelines
	 Always locate the RLV11 module set at a lower priority (further away from the CPU) than any volatile DMA devices, tape units, and the RKV11 as in Figure 1.
	SIZE CODE NUMBER F A SP RLV11-Ø-2
EC FOR	INO EN-01022-16-N370-(361) SHEET _2 OF _
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ENG	NEERING SPECIFICATION
TITLE	RLV11 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
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ENG	INEERING SPECIFICATION	CONTINUATION SHEET	ENGINEERING	SPECIFICATION		7	CONT
TITLE	RLV11 FIELD INSTALLATION AND ACCEPTANCE F	PROCEDURE	TITLE RLV11 FIEL	D INSTALLATION A	ND ACCEPTAN	JCE PR	CEDU
IV.	ACCEPTANCE PROCEDURE		2.	Program Response O	operator Act	ion	
•	A. Equipment			CVRLA (Program Nam	ıe)		
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	2. Diagnostics	5.7 	. 1	LSI (L) N?	(Туре <u>Ү</u> <u>са</u>	<u>irriaq</u> e	eret
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	B. Acceptance Criteria		I	DS – B	(Туре <u>S</u> <u>Т</u>	<u>A carı</u>	iage
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v.	PROGRAM START PROCEDURE		· I	BR Level (Ø) 5?	(Type <u>carr</u>	iage r	etur
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	B. Program Starting		·	CVRLA EOP 1 (appro:	-		
	Program start location is 200. Use s For LSI-11 with ODT Type 200 G.	standard DEC procedures.		Type <u>C</u> (Control/C)	to end exe	cution	t
	C. Program Execution Procedure	97 - F 4 - F					
	1. Program Example for CVRLAA						
	After loading and starting progr the console with the following. for more detailed explanation encountered.	See diagnostic listing					
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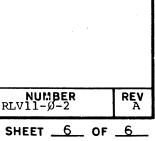
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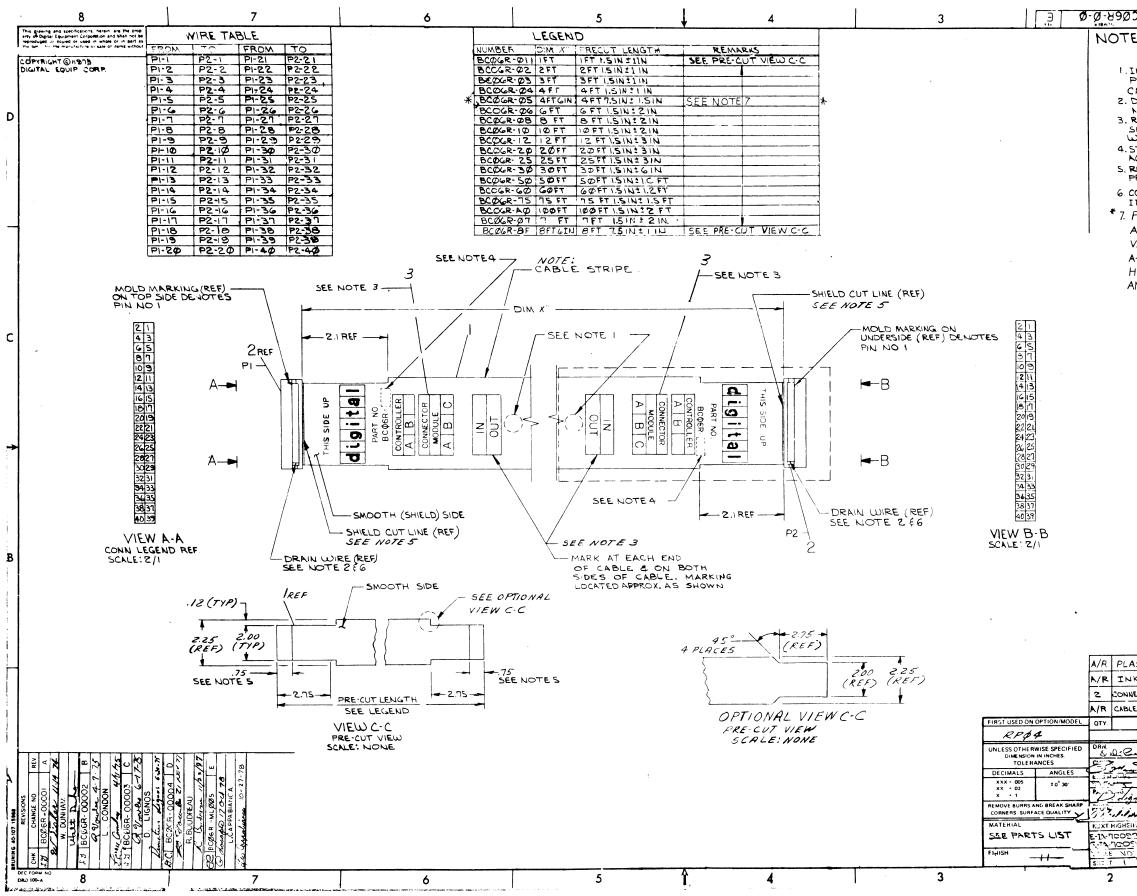
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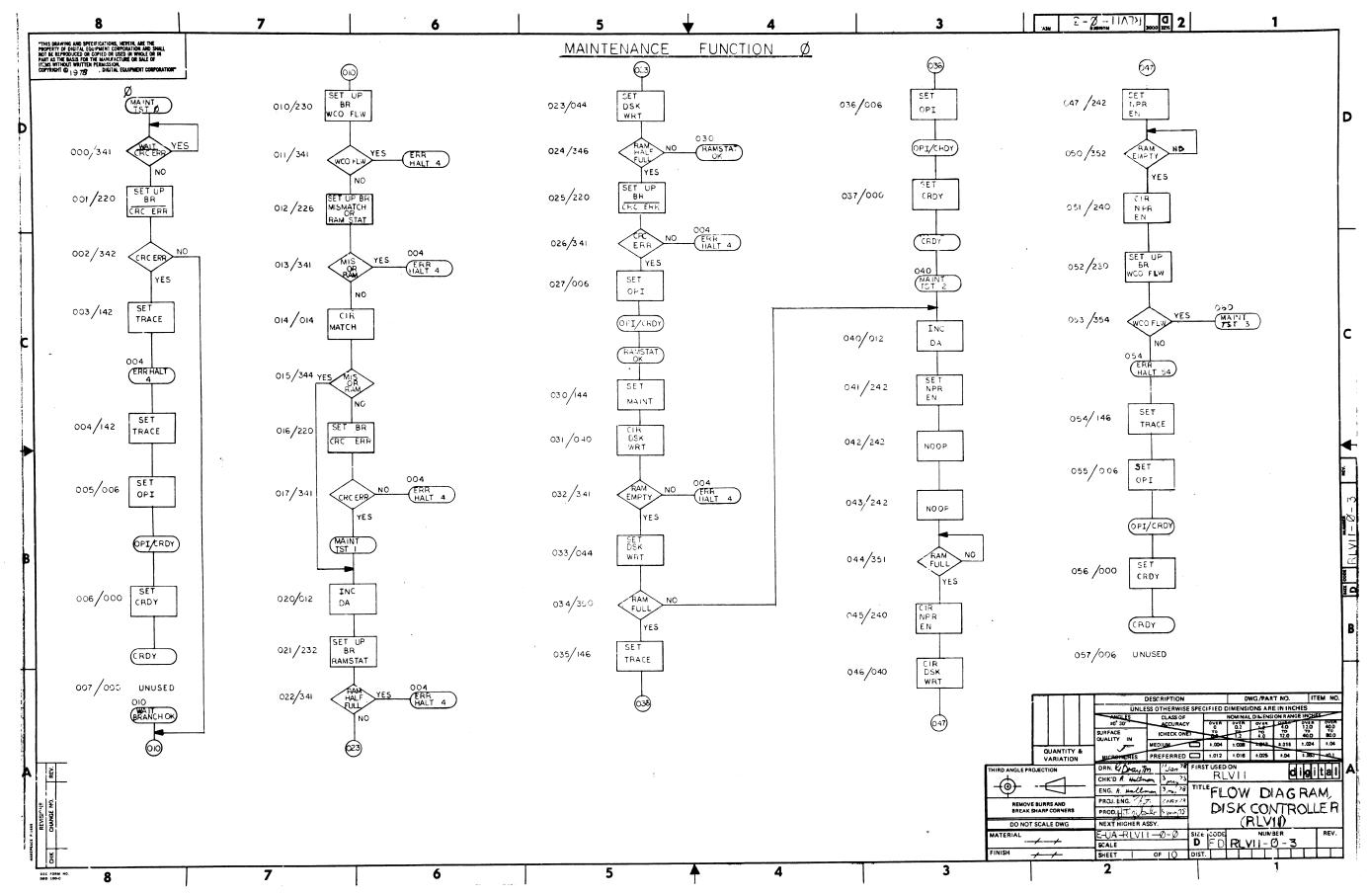


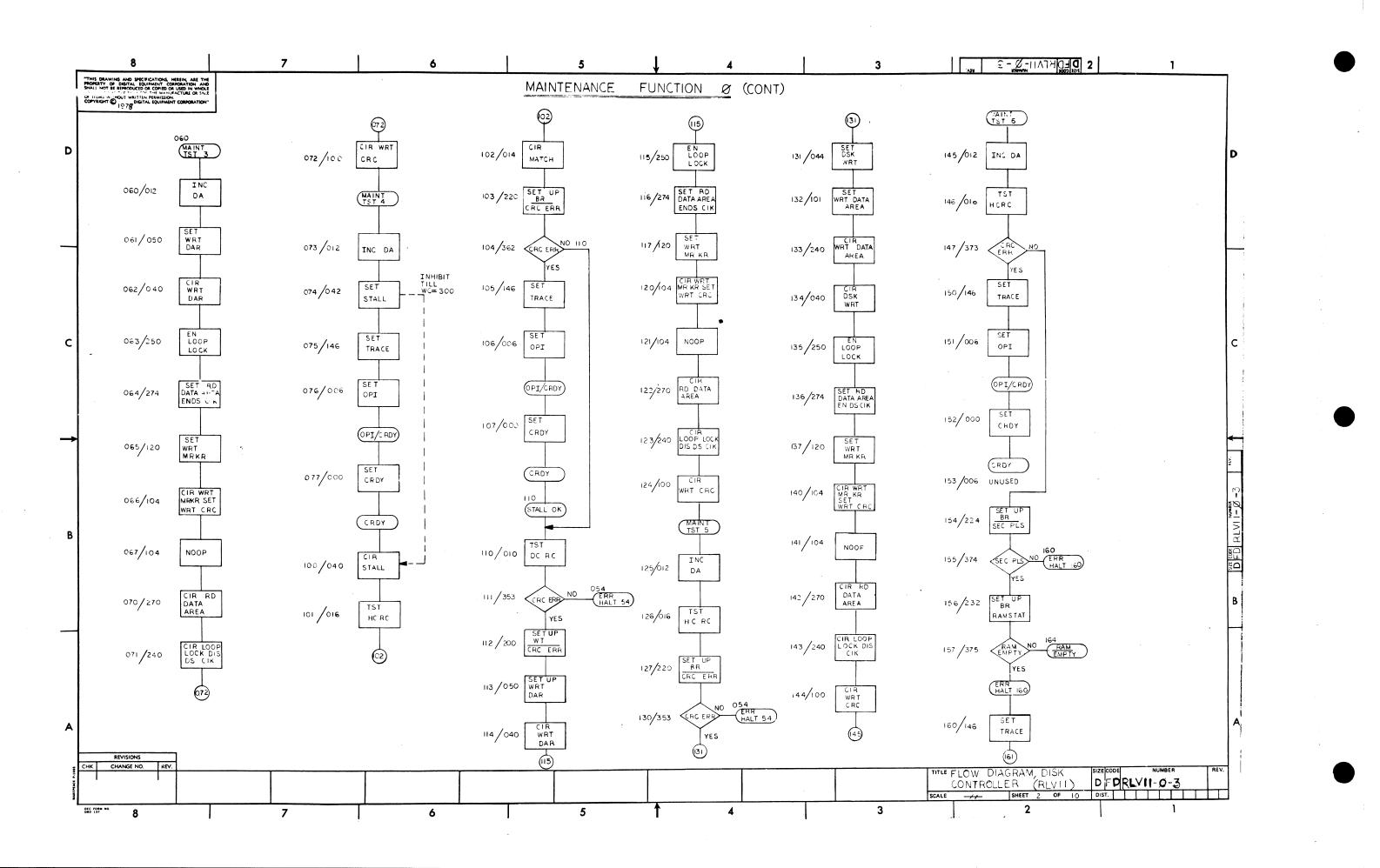
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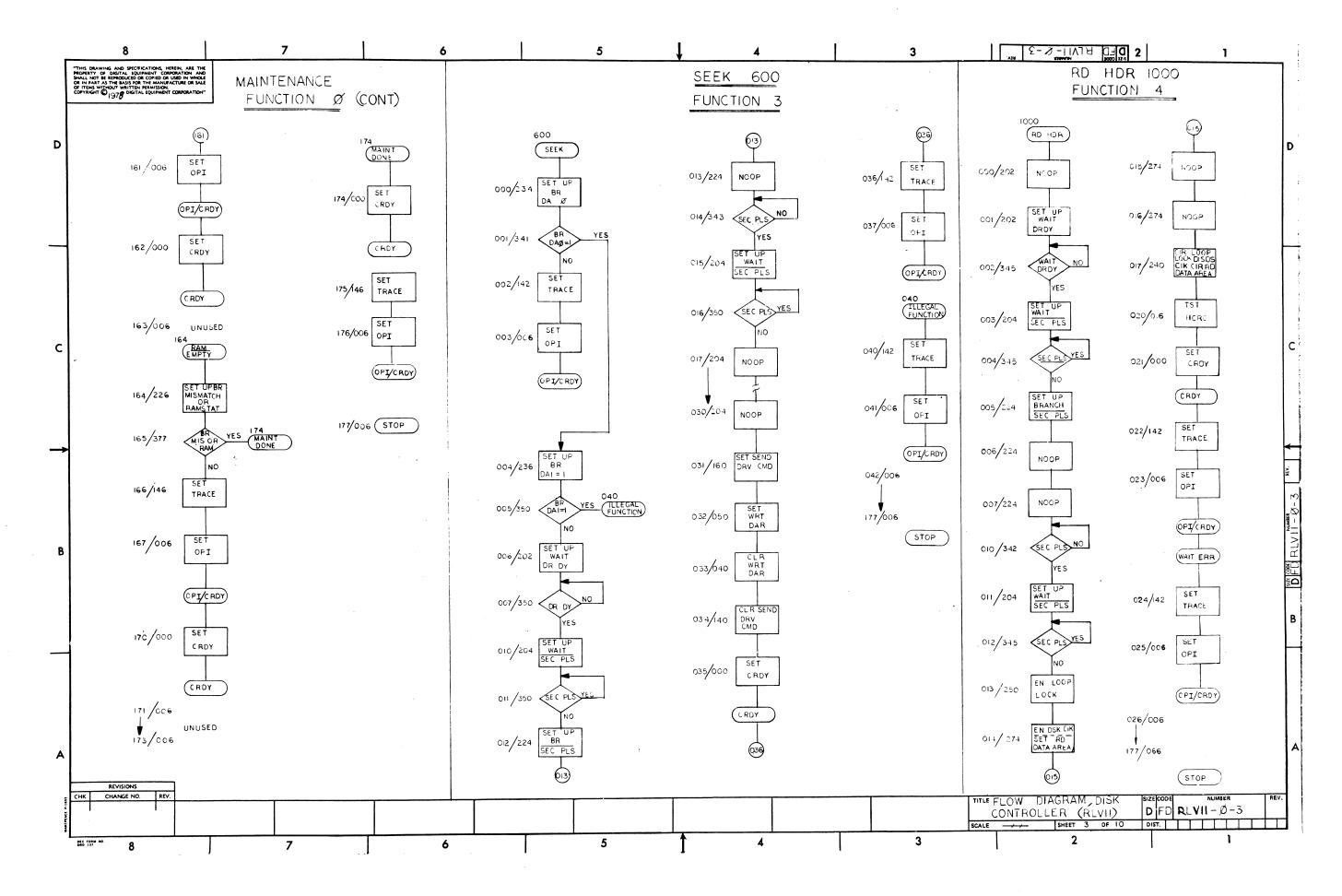
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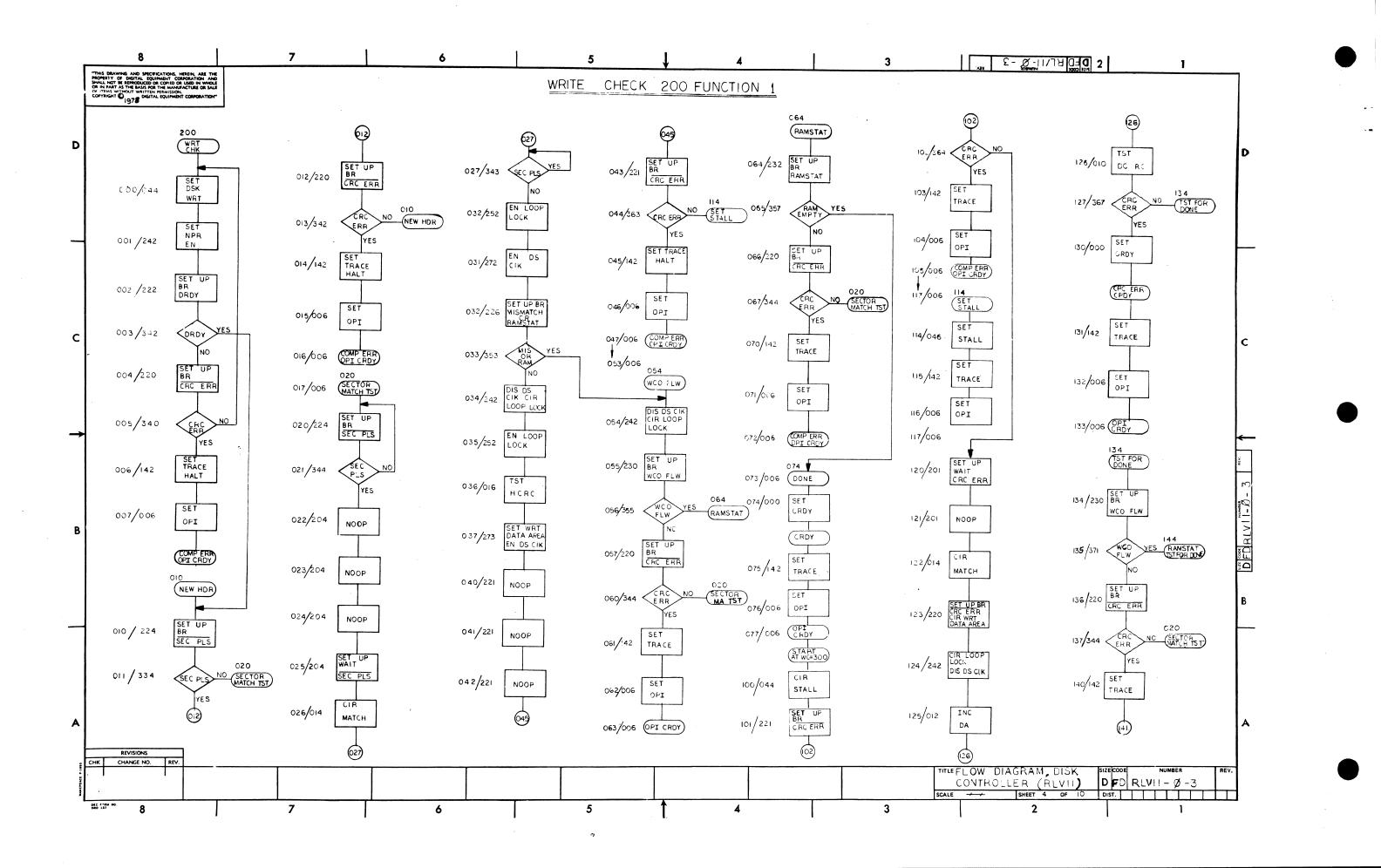


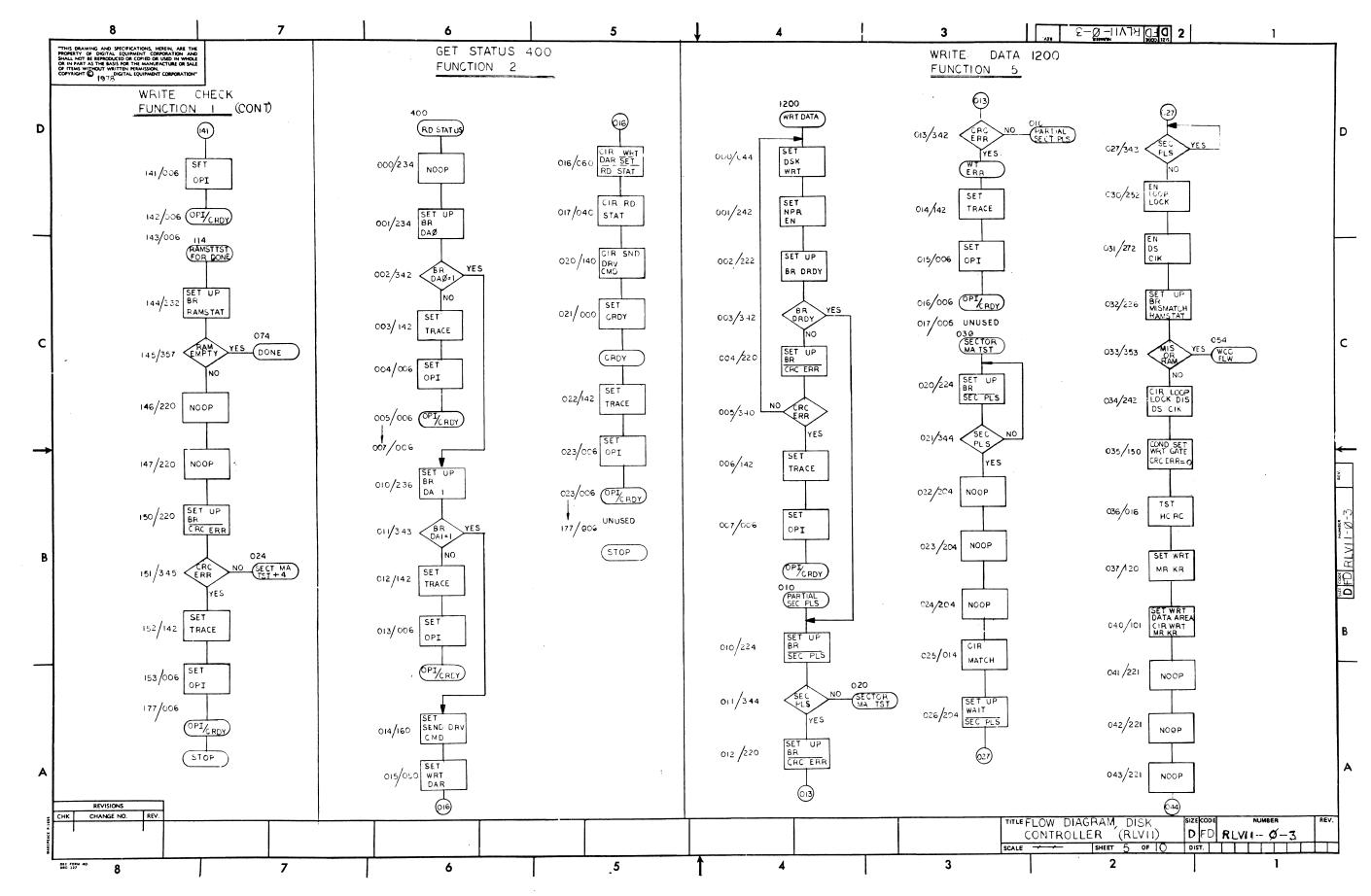
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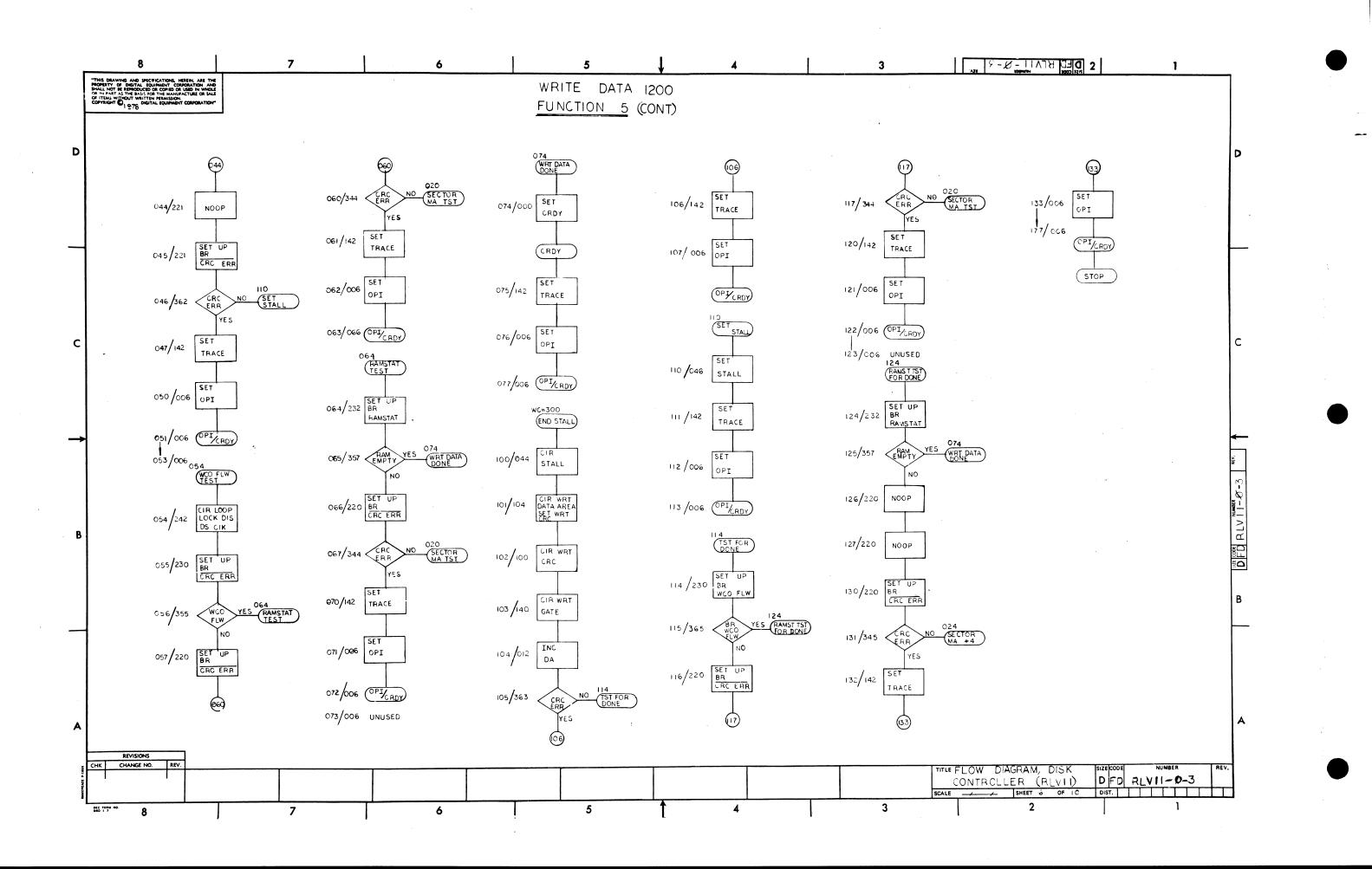


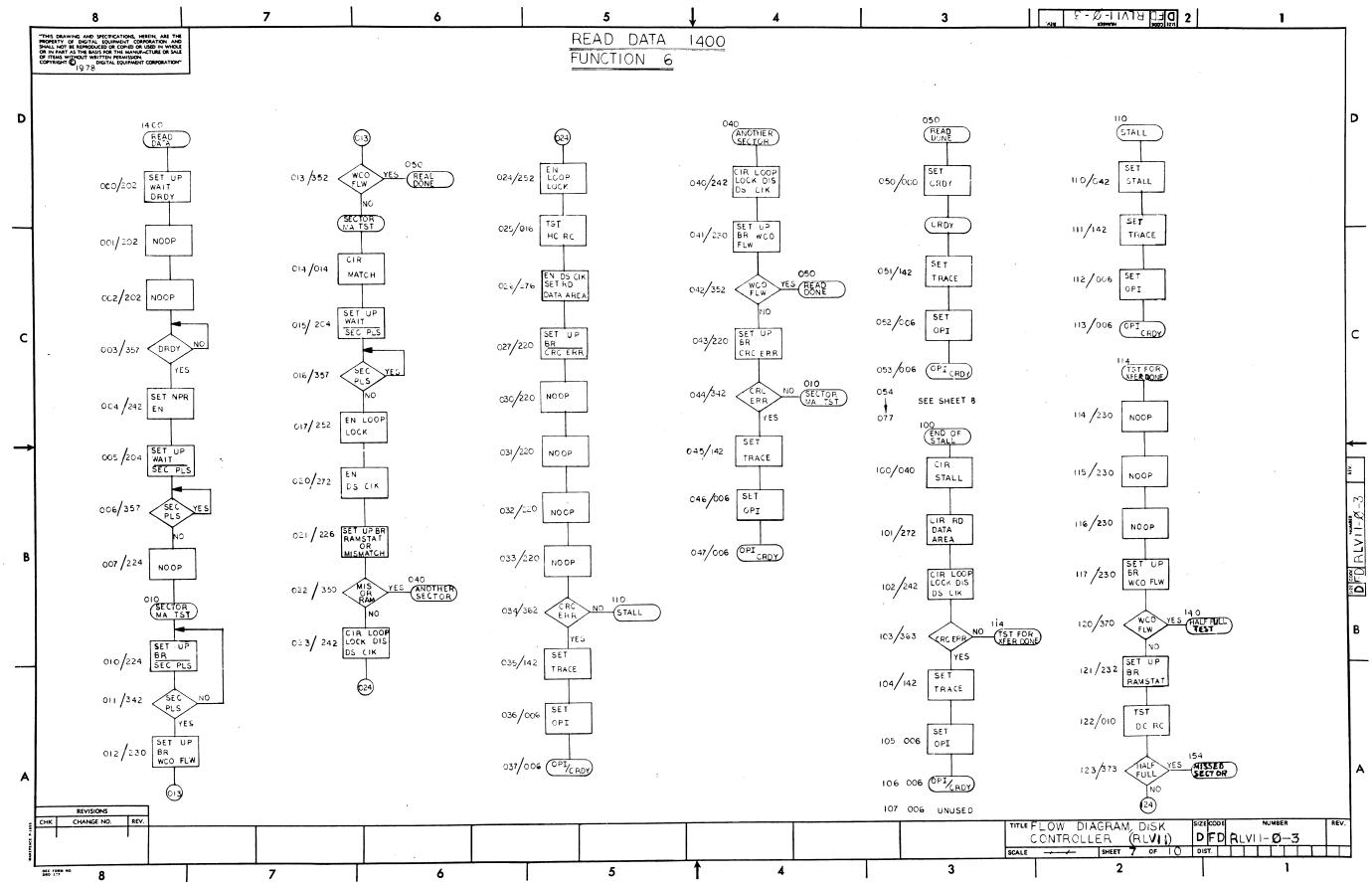


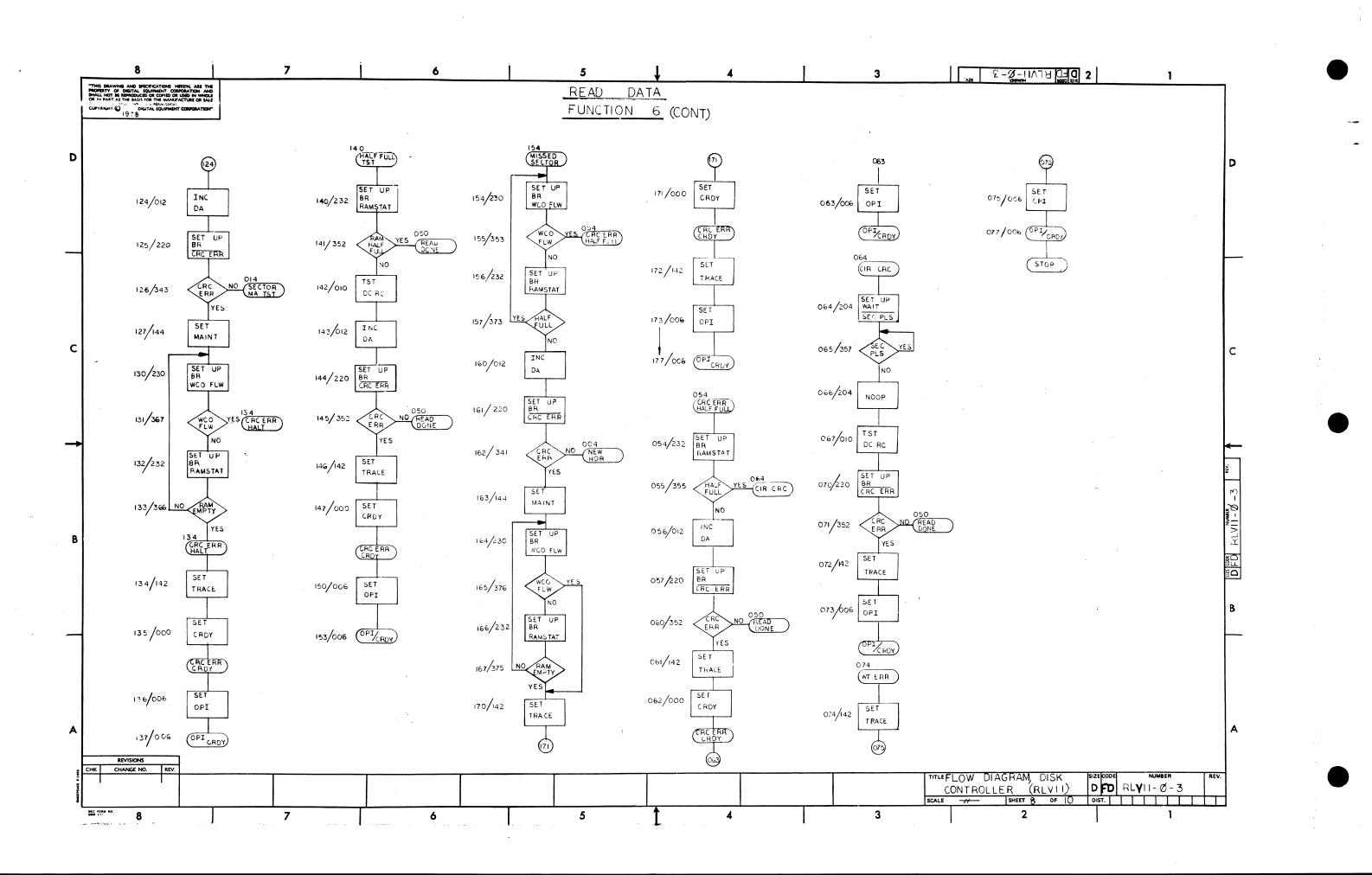


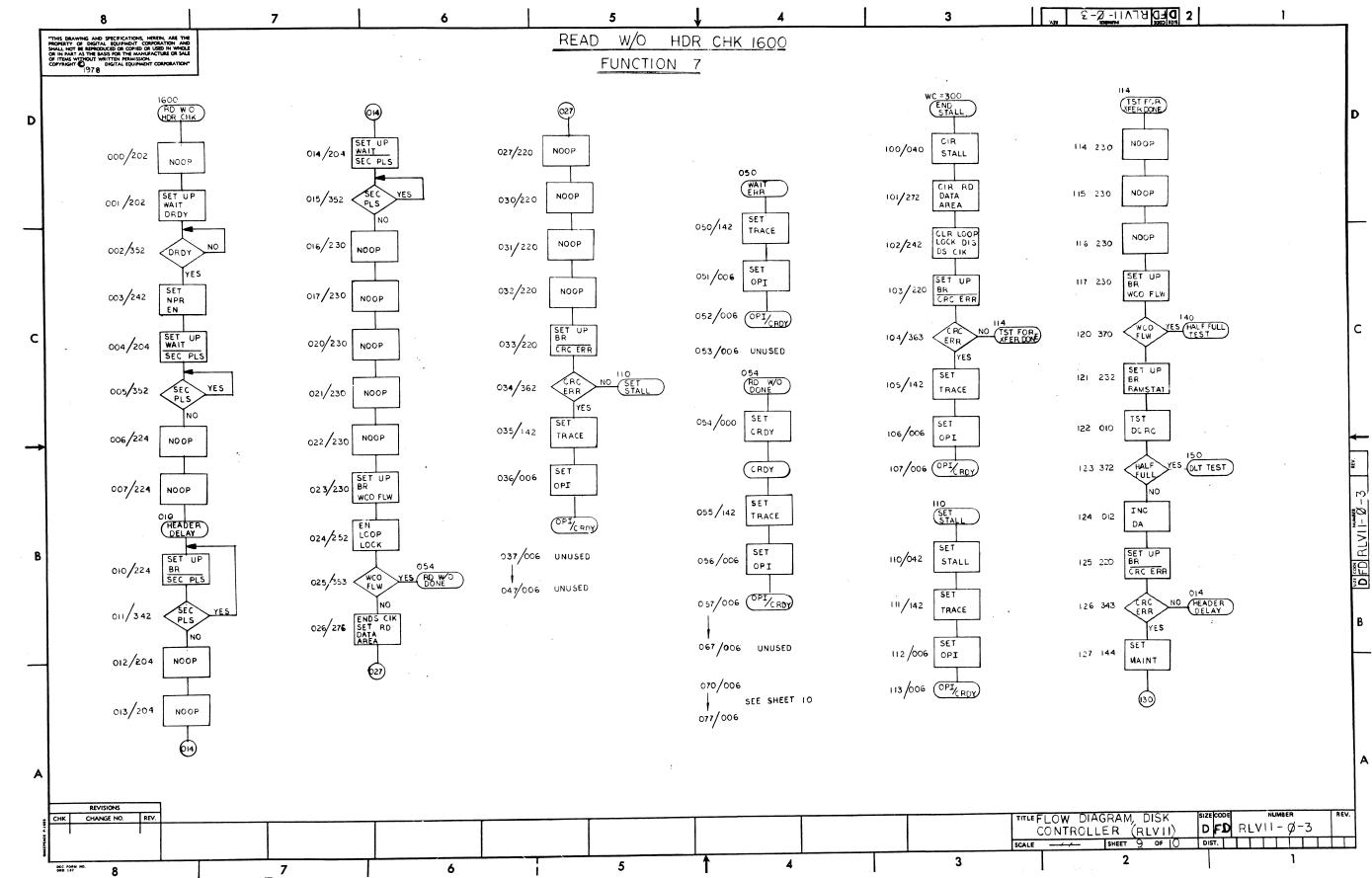


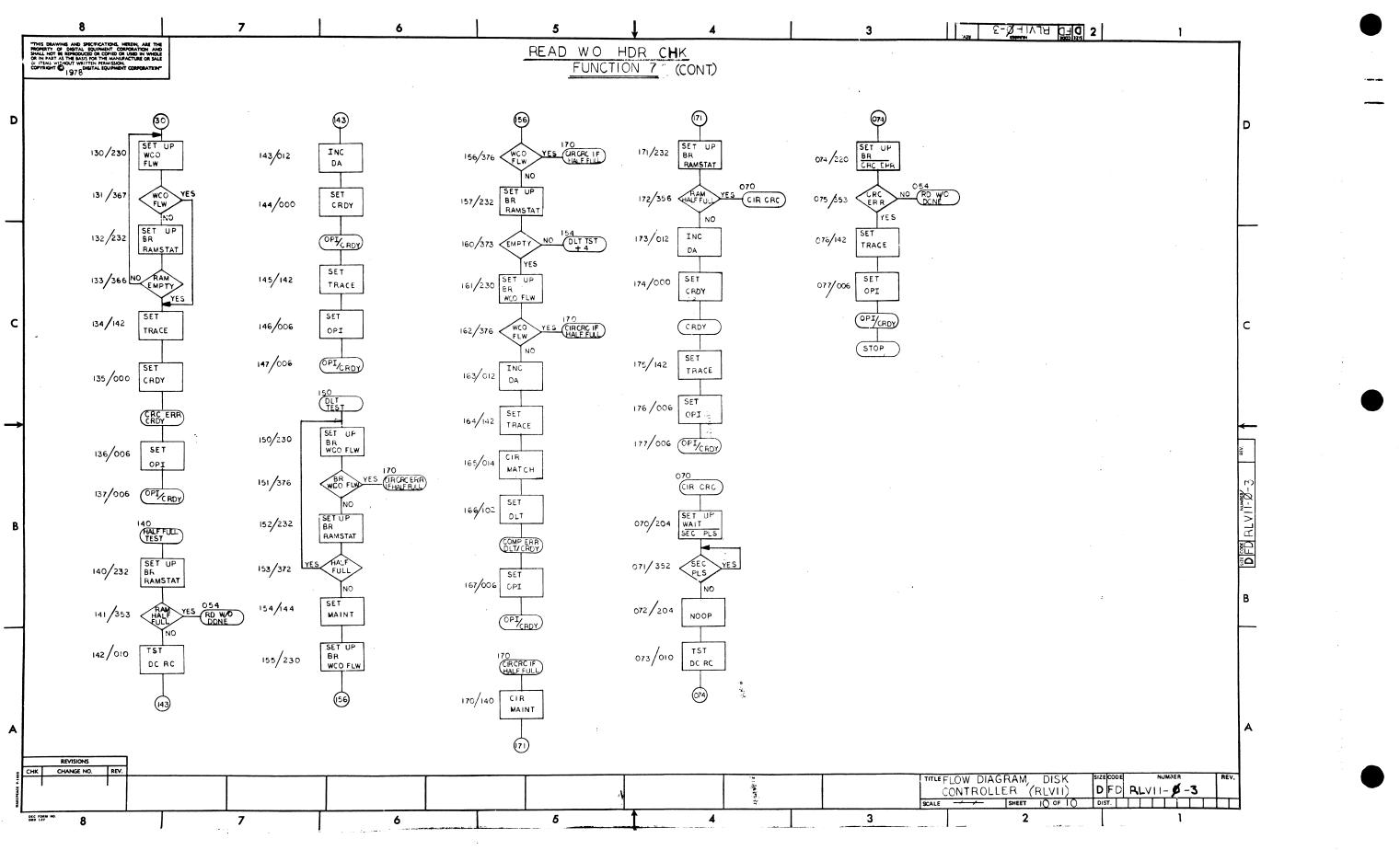


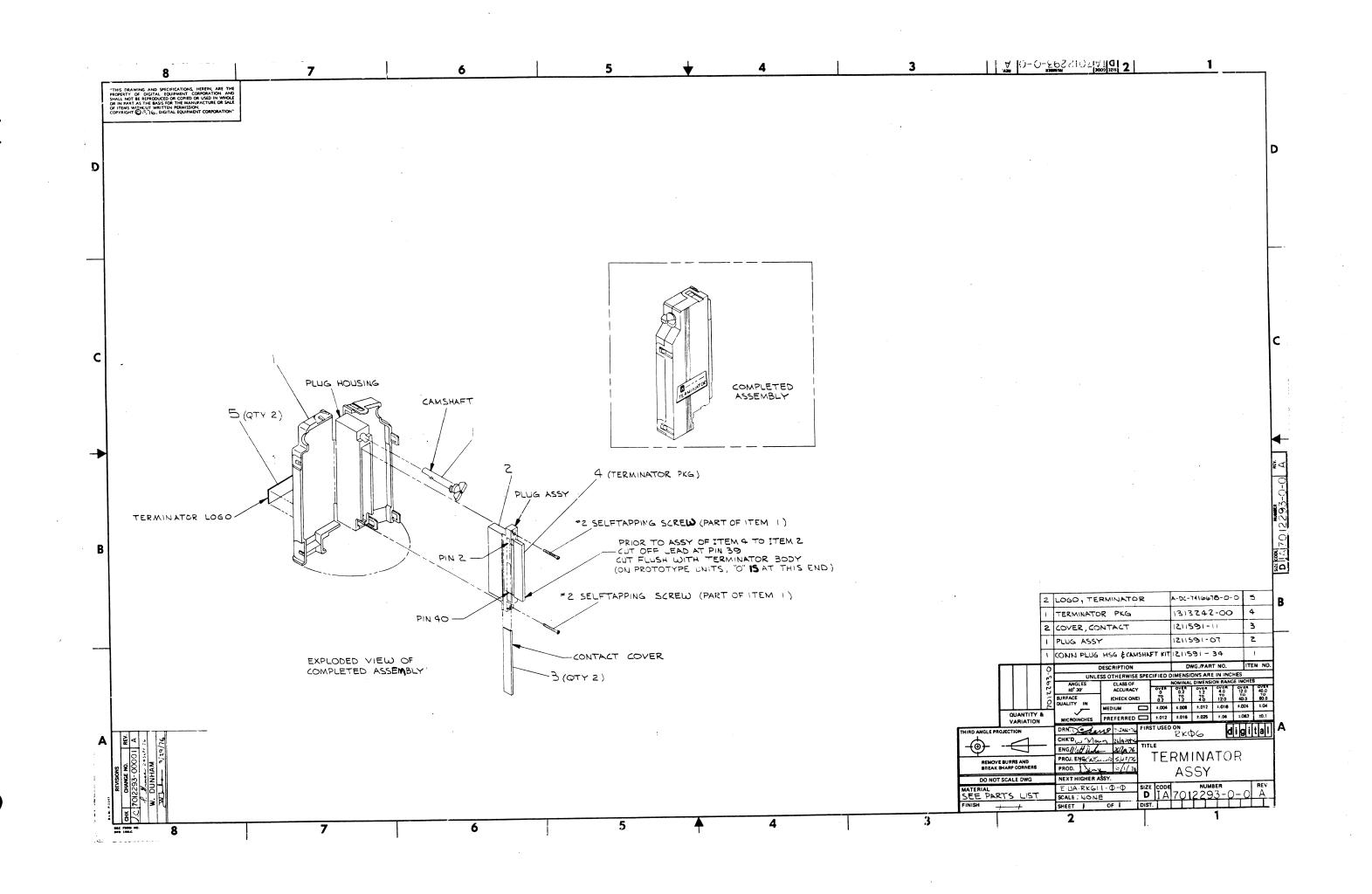












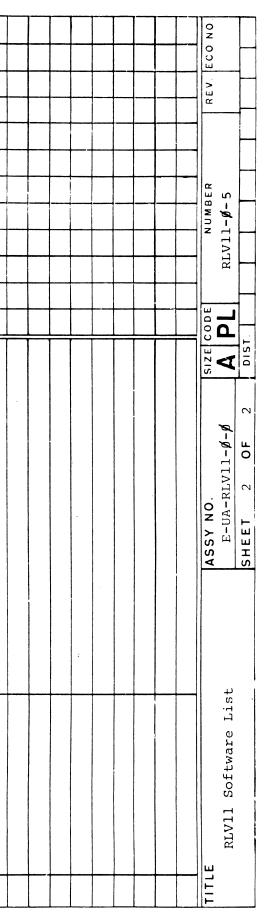
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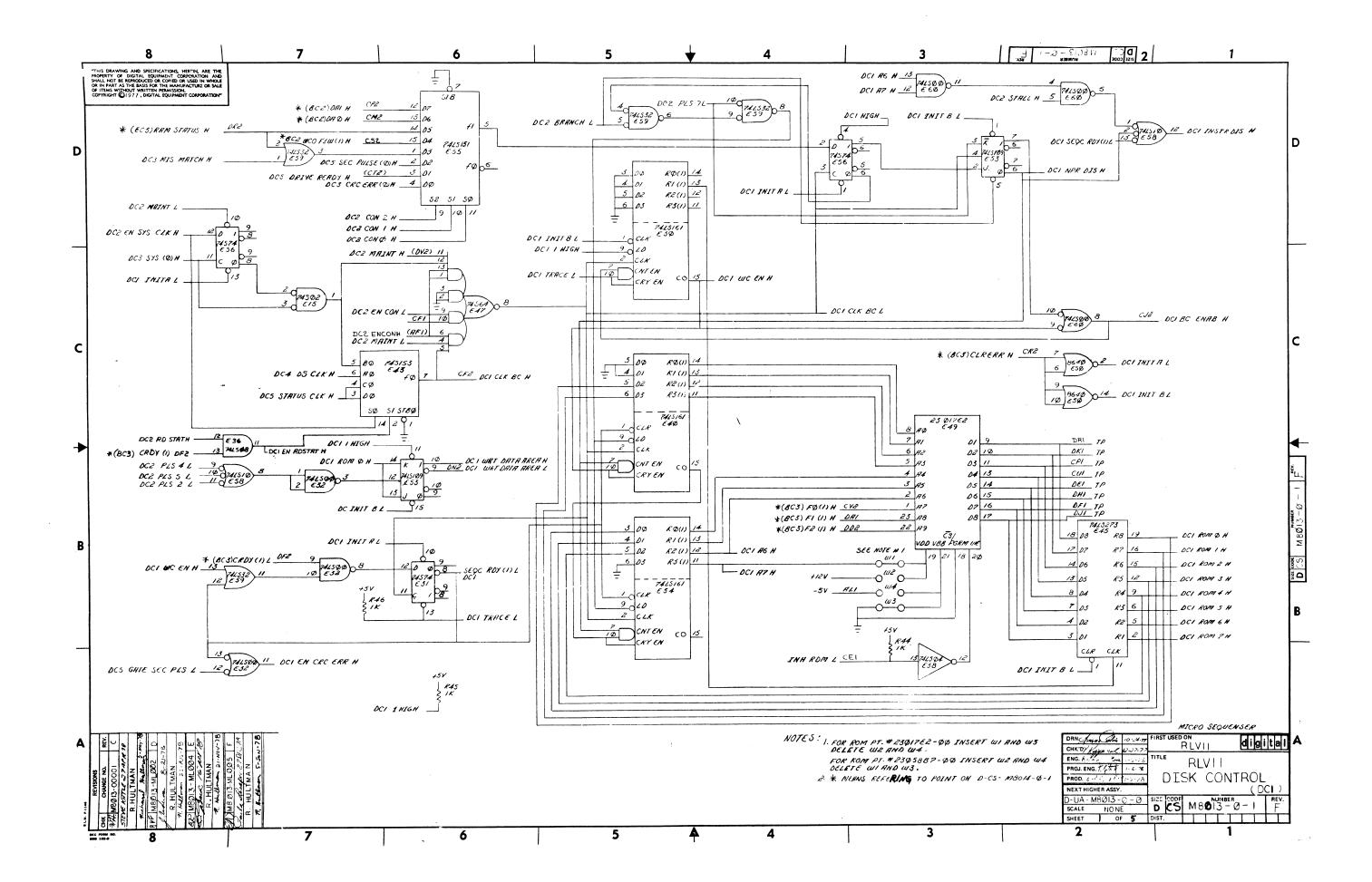
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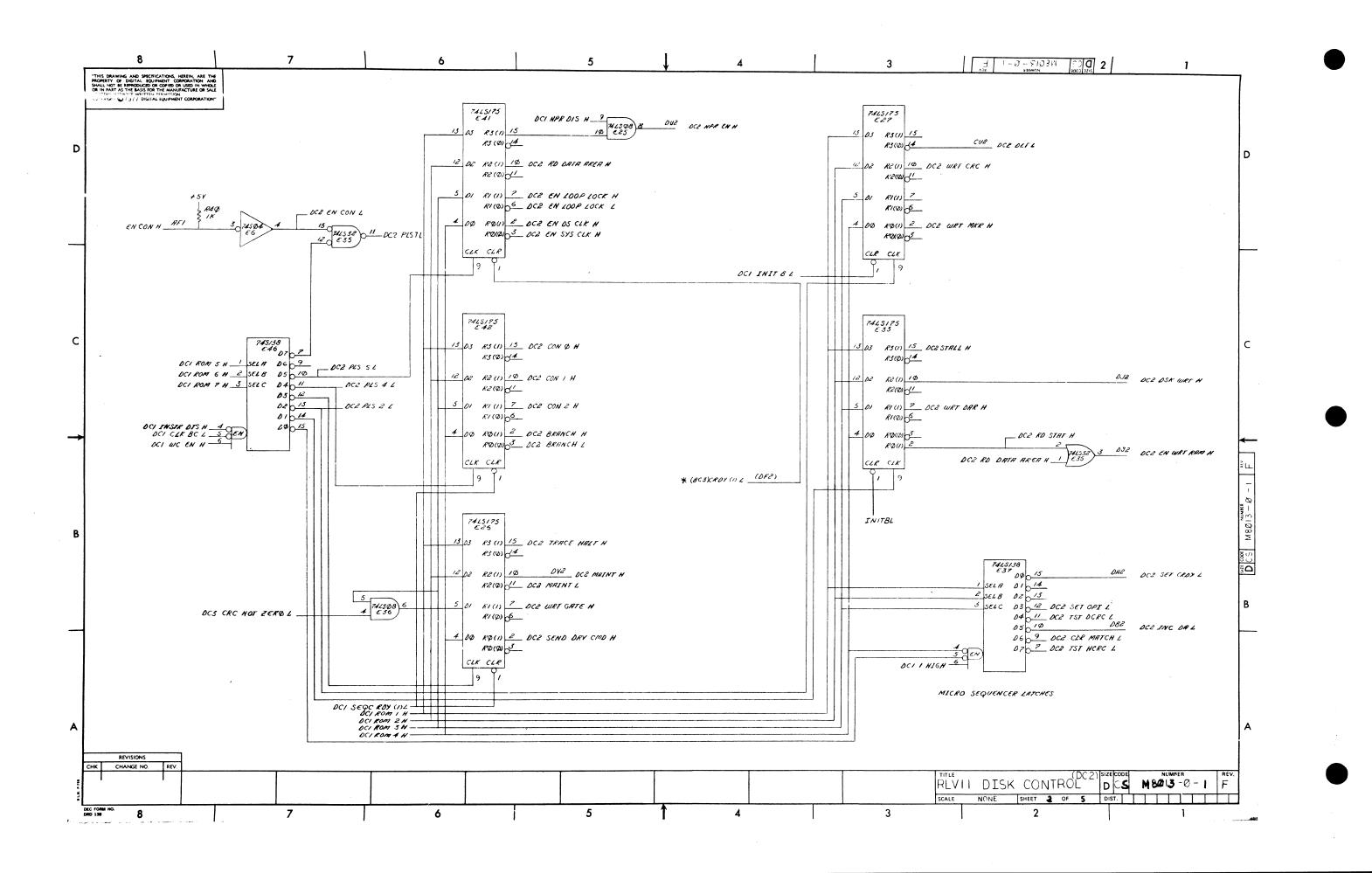
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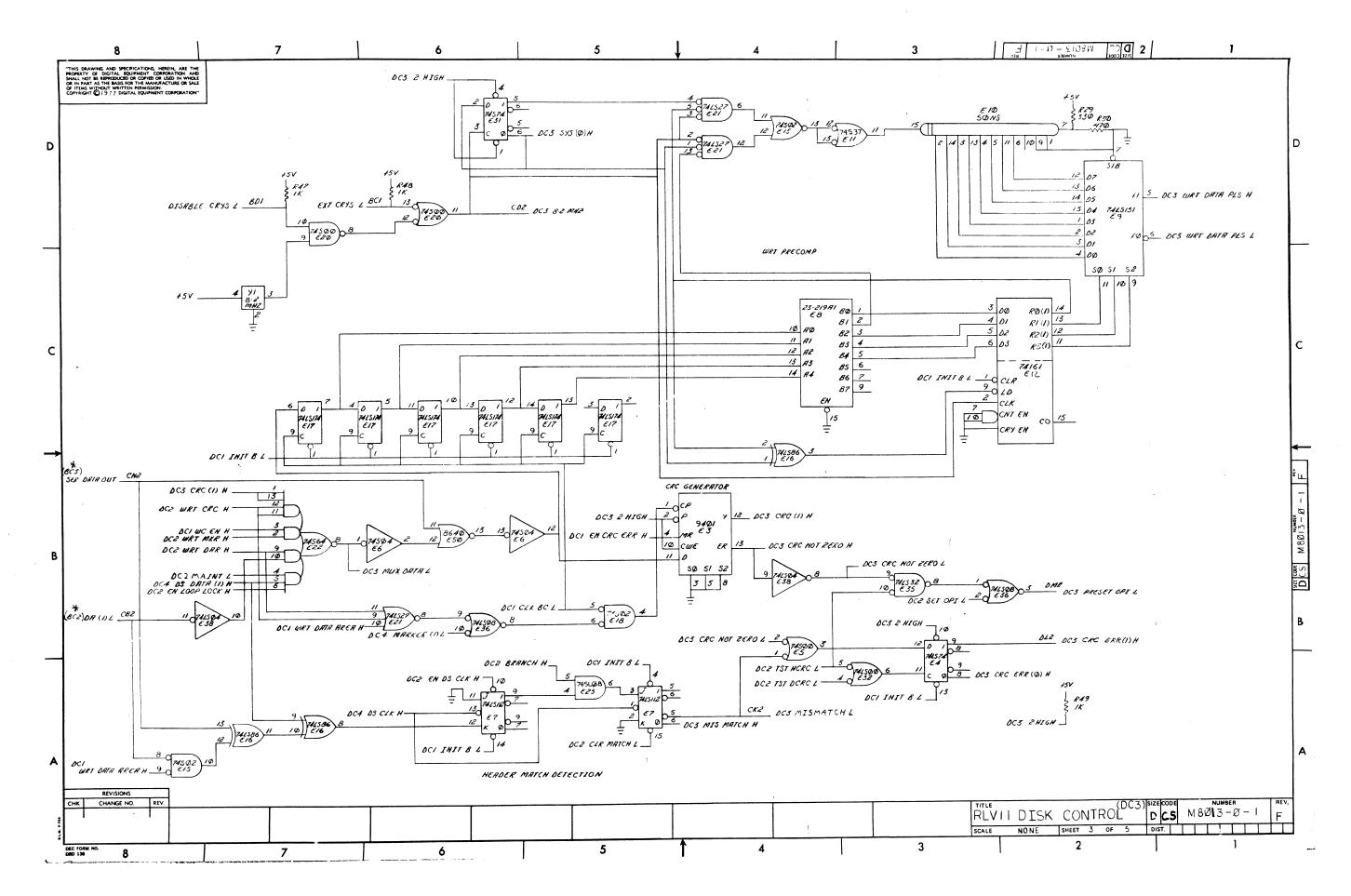
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23	AK-E252B-MC	CZRLFB0 RL01 Drive Cmpt (PT1)		1	l						
2 4	AK-E253B-MC	CZRLFB0 RL01 Drive Cmpt (PT2)	Ч	-	ı						
25	AC-B1 Ø 7A-MC	CVRLAA0 RLV11/RLØ1 DSK1S (DOC)	1	1	I						
26	AH-B1 Ø 8A-MC	CVRLAAO RLV11/RLØ1 DSK1S (FICHE)	1	I	I						
27	AK-B1Ø9A-MC	CVRLAAO RLV11/RLØ1 DSK1S (PT1)	Ч	1							
28	AK-E375A-MC	CVRLAAO RLV11/RLØ1 DSkls (PT2)	1	-	1						
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Т	Able of Contents		
B-TC-RLV11-Ø-1	RLV11 FIELD MAINTENANCE PRINT SET		·
E-UA-RLV11-Ø-Ø	DISK CONTROLLER ASSY. (RLV11)		
A-SP-RLV11-Ø-2	FIELD SERVICE INSTALLATION AND ACCEPTANCE PROCEDURE		
A-PL-RLV11-Ø	RLV11 SHIPPING LIST	UNIT VARIATIO COVERED BY TI PRINT SET	
B-DD-M8Ø13-Ø	RLV11 BUS CONTROL	RLV11-ØØ	
B-DD-M8Ø14-Ø	RLV11 DISK CONTROL	RLV11-AK	
D-UA-BCØ6R-Ø-Ø	BCØ6R I/O CABLE		
D-FD-RLV11-Ø-3	FLOW DIAGRAM DISK CONTROLLER (RLV11)		RI
D-IA-7012293-Ø-Ø	TERMINATOR ASSY.		Fiel
A-PL-RLV11-Ø-5	RLV11 SOFTWARE LIST		Prin Prin
D-CS-M8Ø13-Ø-1	RLV11 DISK CONTROL		
D-CS-M8Ø14-Ø-1	RLV11 BUS CONTROL		
K-PL-M8E13-Ø-DBP	RLV11 DISK CONTROL		
K-PL-M8Ø14-Ø-DBP	RLV11 BUS CONTROL		Dig
D-UA-M8Ø13-Ø-Ø	RLV11 DISK CONTROL		Coi
D-UA-M8Ø14-Ø-Ø	RLV11 BUS CONTROL		PRINT S MPØØ635
K-PS-23Ø17E2-Ø-Ø (SHEETS 2-17 ONLY)	2048 X 8 ROM/PROM PATTERN SPEC.		
K-PS-23219A1- \emptyset - \emptyset (SHEET 2 ONLY)	32 X 8 ROM/PROM PATTERN SPEC.		
$K-PS-23218A1-\emptyset-\emptyset$ (SHLET 2 ONLY)	32 X 8 ROM/PROM PATTERN SPEC.		<u>_</u>
D-TD-RLV11-0-4	TIMING DIAGRAM (RLV11)		
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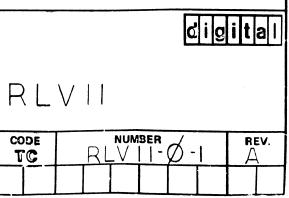
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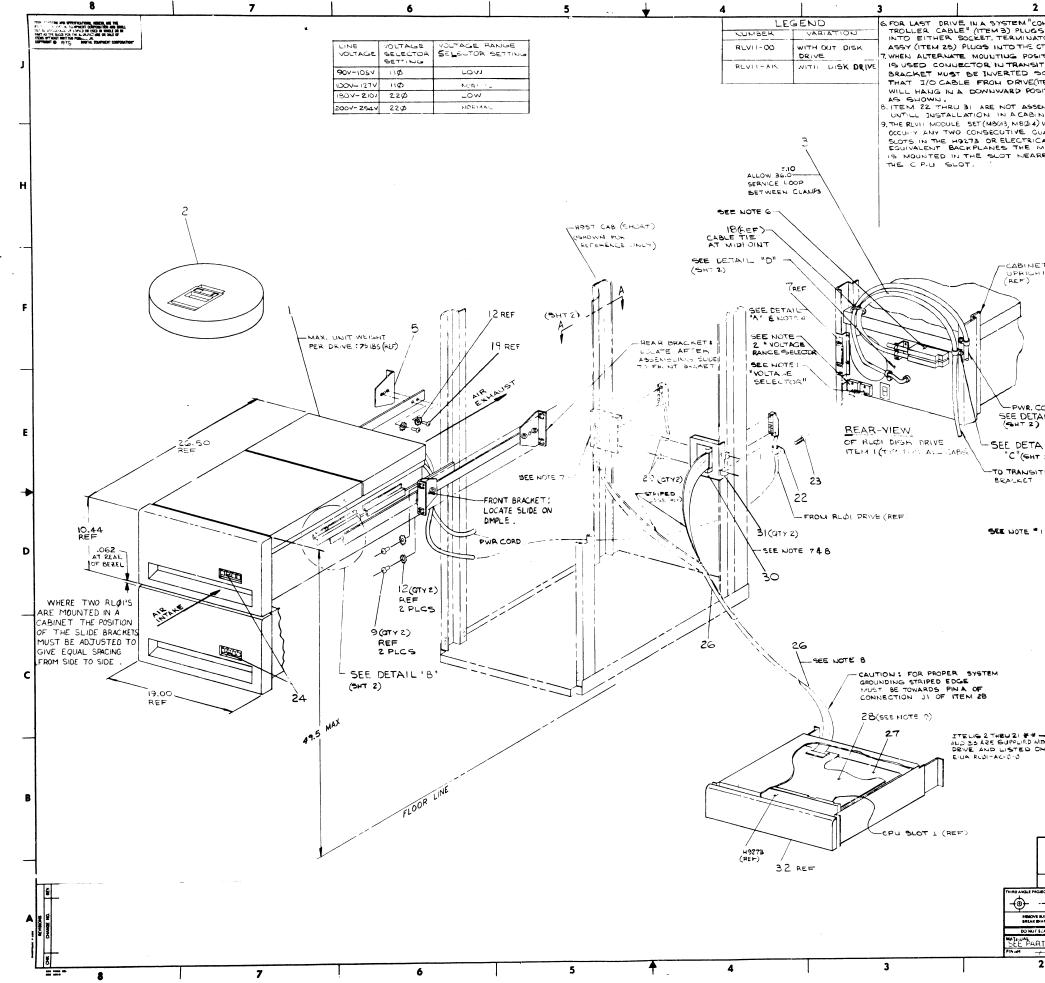
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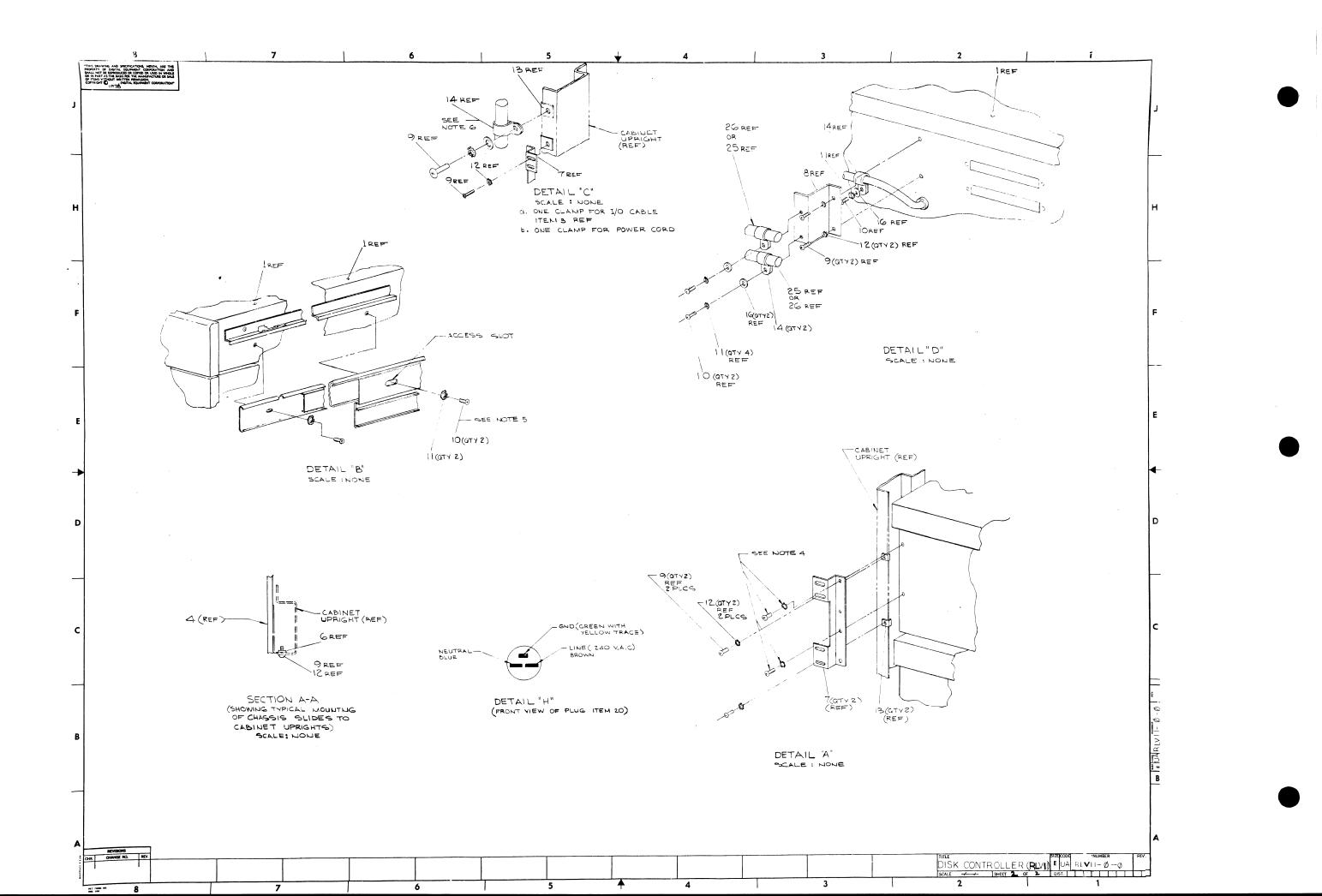
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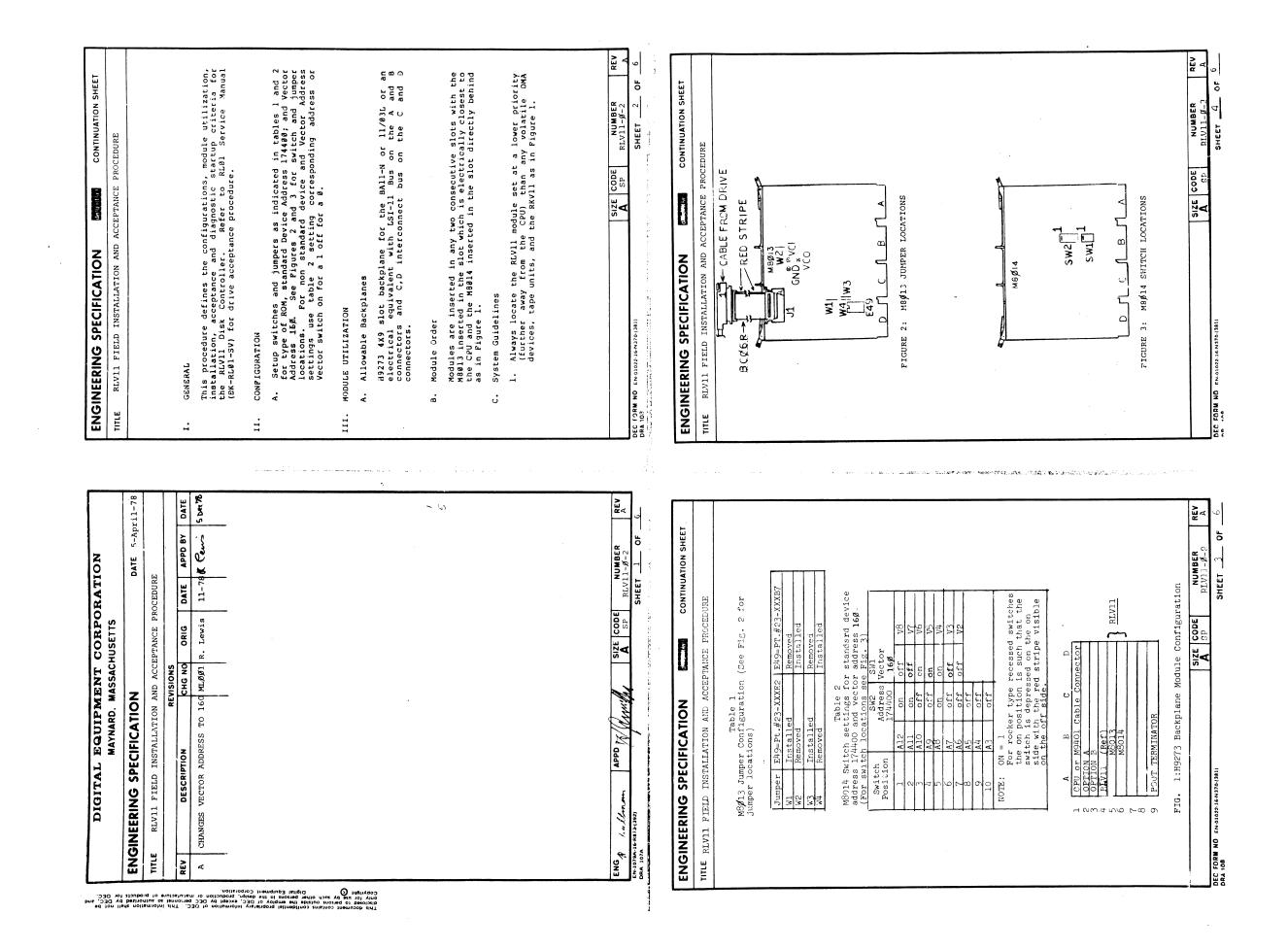
NT SET ORDER NO. Ø635





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con-	T		TES:		
ATOR	, İ	١.	FOR SYSTEMS OPERATING AT 220 N	VAC	
SITION	1		VOLTAGE SELECTOR" COVER, NIT DRAW THE COVER AND RE-INSE		
SO			TURNED UP SIDE DOWN.AFTER Sertion."220 V" Must be Show	10-1	1
(ITEH) SSITION			SERTION,"220 V" MUST BE SHON THROUGH THE SHALL WINDOW. REPLACE THETWO SCREWS, OUT OFF		
SEMBLE			MALE PLUG AND REPLACE BY "2200V" P	ue	
5 NET 4) WILL	ł	0	ITEN 20). FOR COLOR CODE SEE DET Sht 2 For 30 HZ Operation ITEM 33) To unit.	ADD	
GUAD			FOR SYSTEMS OPERATING WITH		
AREST	3		LINE VOLTAGE, REMOVE TWO SO	CREWS	
			FROM "VOLTAGE RANGE SELEC COVER, WITHDRAW THE COVER	AND	
			RE-INSERT IT TURNED UPSIDE	DOWN.	н
			NUST BE SHOWING THROUGH SHALL WINDOW. REPLACE THE	THE	
			SCREWS, SEE TABLE (THIS SHT ZO	NE 63)	
			CABLE CLAMPS (ITEM 14) TO E MOUNTED IN NEXT AVAILABLE		
			HOLES (AS SHOWN IN DETAIL	c"	
IET		ć	SHT 2) ABOVE SHIPPING BRAG (TEMT) AFTER SHIPPING BRAG	KET	
. +1 1			IS NOULITED PER NOTE 4.		
			TO ATTACH SHIPPING BRACKE" (ITEM 7) REMOVE TWO SCREWS		_
			TWO LOCKWASHERS FROM ONE		F
			OF THE POWER PANEL ON TH REAR OF DISK DRIVE (ITEM	12,	
			POSITION A SHIPPING BRACK	ET TO	
			(TEM 13) AND ATTACH BRACKE USING ORIGINAL SCREWS A	ET	
			LOCKWASHERS AND ITENS	1249	
			REPEAT PROCEDURE ON OTHER	2 SIDE	
CORC		5	OF DRIVE. TO MOUNT REGI TO CABINET: Q. MOUNT BLIDED AND BRAKET		
TAIL' H	1		D. MOUNT BLIDED AND BRAKE UPRIGHTS. 5. EXTEND SLIDES AS FAR AS	TS TO	Е
AIL			POSSIBLE BY RELEASING (SEE DETAIL "B" (SHT 2)	CATCHES	
HT 2)			UPRIGHTS. DEXTED SLILES AS FAR AS POSSIBLE BY RELEASING (SEE DETAIL "B" (SHT 2) C.PLACE DRIVE ON SLIDES PUSH BACK UNTILL ENDS OF FIT UNDER TABS ON SLIDES LITCHES FILOAGE	AND RAILS	
ITION	s		DISA BACK UNTILLENCS A FIT UNDER TABS ON SLIDES LATCHES ENGAGE D.SECUSE DRIVE TO SLIDES US SCREWS SUPPLIED. SEE DETA (SAT 2) TO REMOVE DRIVE, EXTEND	NB	
			(SAT 2) TO REMOVE DRIVE, EXTEND		-
				>	•
			TO REMOVE DRIVE, EXTEND Slides fully remove sor Release latones and lift	D Ews Coff.	
•			BELEASE LATCHES AND LIFT	OFF.	
			LABELADHESINE BALKEDSØHZ A-PS-3613209-0	- OFF.	
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	2 1 2	REF	LEASE LATCHES AND LEFT LABEL, ADHESIVE BALLEDSØ HZ A-PS-34132070 UNIT ASSY (BALI-N) C-UA-BALIAN-2 NUT SASY (BALI-N) C-UA-BALIAN-2 NUT SAFFING "0-32 9007766-0 TEANSI-0HBRACKET ASSY (AS77012415-0 TEANSI-0HBRACKET ASSY (AS77012415	0 33 32 32 33 32 31 32 30 31 32 30 30 30 29 4 28	D
	REF 2 1 2	REF 2 2	LEASE LATCHES AND LEFT EELEASE LATCHES AND LEFT (ABEL, ADHESIVE BALKEDSØ HZ A-PS-SUI3209-C UNIT ASSY (BAIL-N) 2-UA-BAI-N-2 NUT GFRING TO 3-2 9007755-C TEANSI-CHIBRACKLT ASSY (AS-7712415-C TEANSI-CHIBRACKLT ASSY (AS-7712415-C TEANSI-CHIBRACKLT ASSOLG 9000075-C RLVII DISK CONTROL PUA-M8015-C RLVII BUS CONTROL DUA-M8014-C	33 37 37 37 38 37 31 30 30 30 230 30 29 428 327	D
	2 1 2	REF 2 2	LEASE LATCHES AND LIFT LABELADHESIVE BALEDSØ HZ A-PS-SUIACUPC UNIT ASSY (BAII-N) LUT SPRING, TO SI 9000"766"C TEANDIT ON BRACKET ASSY (AS77012415-C) SCR PHLITRSHD TO X.SOLG SCR PHLITRSHD TO X.SOLG 9000"766"C RLVII DISK CONTROL PUA-M8015-6 RLVII BUS CONTROL PUA-M8014 BCC-4 J/C CABLE D-44-7012293 O	33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 34 35 36 37 38 39 30 31 32 33 34 35 36 37 38 39 30 30 31 32 32 32 32 32 33 34 35 36 37	D
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	REF 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REF 2 - 2	LEASE LATCHES AND LEFT LABEL, ADHESIVE BALKEDSØ HZ A-PS-34142070 UNIT ASSY (BALI-N) C-UA-BALI-N-2 NUT GYSY (BALI-N) C-UA-BALI-N-2 NUT GYSIN, 50-32 9007765-0 CANDITON BRACKET ASSY (AD7012415-0 SCR PIL TRSHD TO X.SOLG 90000775 RLVII DISK CONTROL PUA-H8015-0 RLVII DISK CONTROL PUA-H8015-0 RLVII DISK CONTROL PUA-H8015-0 RLVII DISK CONTROL PUA-H8015-0 NIT SELECT PLUG KIT A-PC-7012930 UNIT SELECT PLUG KIT A-PC-7012939 OTG.TAP 88.3846 90004150 CLAMP CABLE 9007083-3 NTERLOCK KIT A-PL-14504-2-0 CONNECTOR 2280 V ROWER 9008853 00	33 32 32 32 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 34 25 34 24 1 23 22 24	D
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			LABEL, ADHESIVE BALKEDSØ HZ A-PS-3413(29) UNIT ASSY (BAIL-N) C-UA-BAIL-N- NUT GPFING *: 0-32 MUT GPFING	1 33 32 32 32 31 32 31 32 32 34 32 35 31 32 32 34 32 35 31 32 32 34 32 35 279 4 279 4 270 25 24 1 23 30 22 20 21 20 21 19 19 17 17	
			LABEL, ADHESIVE BALLEDSØ HE A-PS-SUI3CUPT LABEL, ADHESIVE BALLEDSØ HE A-PS-SUI3CUPT UNIT ASSY (BAIL-N) C-UA-BAIL-N- NUT SPHINLS ¹⁰ -32 9007786- TEANSI-OH BRACKLT ASSY CA77012416- SCR PHL TRSHD ¹¹ 0 X.SOLG 90007766- RLVII DISK CONTROL PUA-H8013-6 RLVII DISK CONTROL PUA-H8013-6 RLVII DISK CONTROL PUA-H8014-6 RCUI J/S CABLE 0-UA-B608-7 RLVII DUS CONTROL PUA-H8014-6 SCB-4 J/S CABLE 0-UA-B608-7 CLAMP CABLE 9000416 0 CLAMP CABLE 9007031-00 THERLOKK KIT 4-PL-7012738-0 UNIT SELECT PLUG KIT 4-PL-7012738- CONNECTOR 228/V POWER 9008453 00 CLAMP CABLE 9007031-00 THELCOKKIT 9006653-00 CLAMP CABLE 75 NOM 9007081-00 CLAMP CABLE 75 NOM 9007081-00 CLAMP CABLE 75 NOM 9007081-00 CLAMP CABLE 75 NOM 9007081-00 CLAMP CABLE 75 NOM 9007081-00 NUTU SHAED RTAINASTO32 9007786-00	1 33 32 32 33 32 34 32 35 32 32 32 32 22 4 24 22 24 22 24 22 24 123 22 21 18 16 15 14 13	
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ENG	NEERING SPECIFICATION	
TITLE	RLV11 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE	TITLE RLV11 FIELD INSTALLATION AND ACCEPTANCE PROCEDU
IV.	ACCEPTANCE PROCEDURE	2. Program Response Operator Action
•	A. Equipment	CVRLA (Program Name)
	1. Hardware	L-CIK (L) N? (Type <u>Y</u> <u>carriage</u> ret with <u>BDV11</u> RTC Enab
	 a. BAll-N ll/03 system with a minimum of 16K of memory b. Console terminal (VT50, La36, etc.) c. RL01 Disk Drive 	50HZ (L) N? (Type carriage return not 5ØHZ)
	2. Diagnostics	LSI (L) N? (Type <u>Y</u> carriage ret
	Program Name Maindec CVRLAAØ RLV11 RLØ1 Diskless Test AC-B107A-MC	LPT (L) N? (Type carriage return
	CZRLABØ RL11/RLV11 Controller Test (Part 1) AC-EØ36B-MC CZRLBBØ RL11/RLV11 Controller Test (Part 2) AC-EØ4ØB-MC	MEM (K) (D)16? (Type <u>carriage retur</u>
	B. Acceptance Criteria	DS-B (Type $\underline{S} \underline{T} \underline{A}$ carriage
	Program Name Accept Time (Error Free)	# Units (D) ? (Type <u>1</u> carriage ret
	CVRLAAØ10 PassesCZRLABØ5 Passes	Unit 1 RL11 (L) Y? (Type <u>N</u> <u>carriage ret</u>
	CZRLBBØ 3 Passes	Bus Address (Ø)1744ØØ ? (Type carriage
		Vector (Ø) 330 ? (Type 160 <u>carriage r</u>
۷.	PROGRAM START PROCEDURE	BR Level (Ø) 5? (Type <u>carriage retur</u>
	A. Program Loading	Drive (\emptyset) \emptyset ? (Type carriage return
	Follow standard DEC procedures for program loading. Absolute Loader for paper tape. XXDP, UPD1, UPD2, UPD3 for other media.	Change SW (L)? (Type <u>N</u> <u>carriage ret</u>
		CVRLA EOP 1 (approximately 45 seconds)
	B. Program Starting	Type <u>C</u> (Control/C) to end execution
	Program start location is 200. Use standard DEC procedures. For LSI-11 with ODT Type 200 G.	
	C. Program Execution Procedure	
	1. Program Example for CVRLAA	
	After loading and starting program, it will respond at the console with the following. See diagnostic listing for more detailed explanation or if errors are encountered.	
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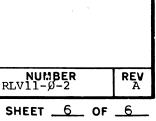
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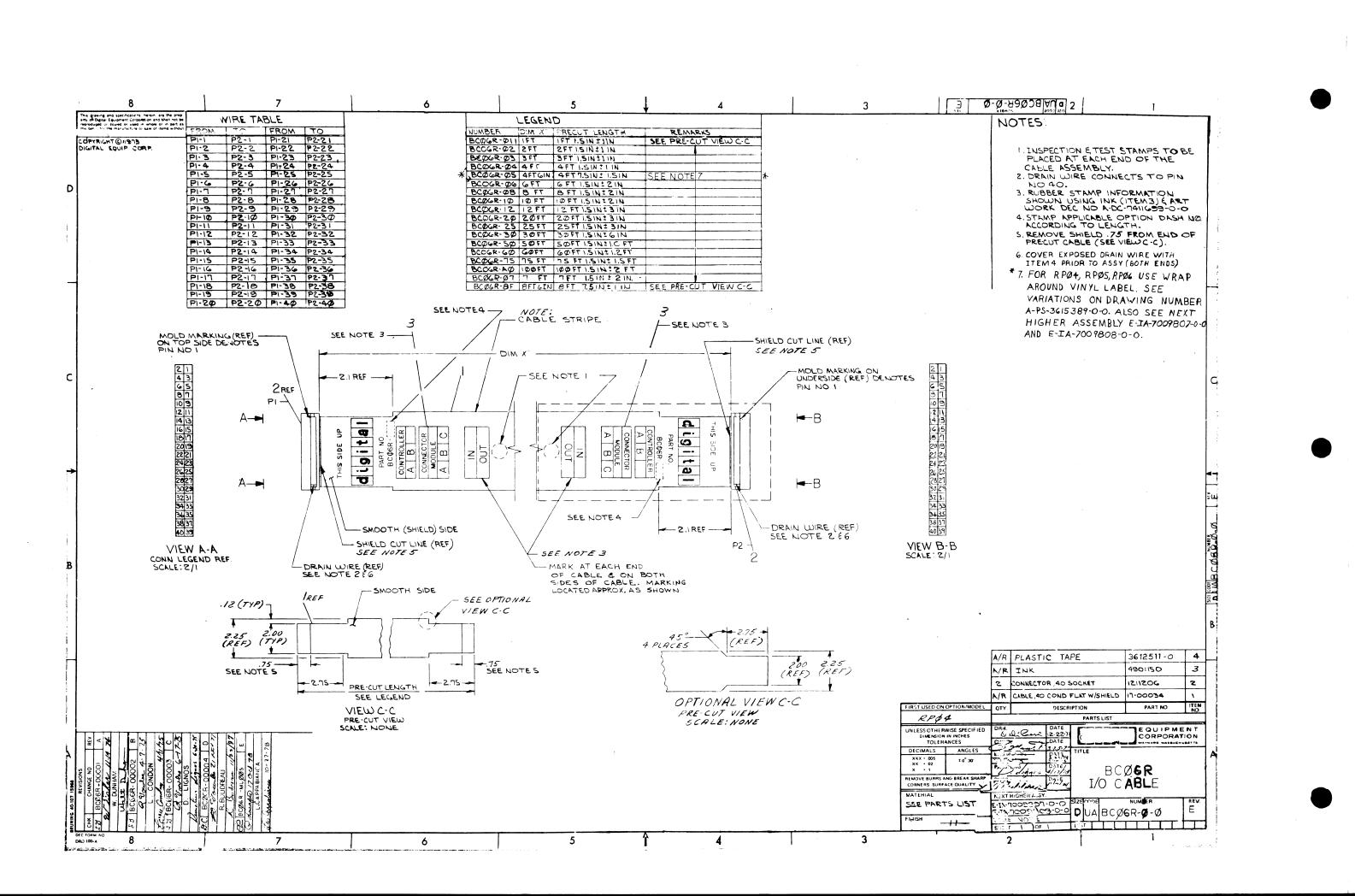
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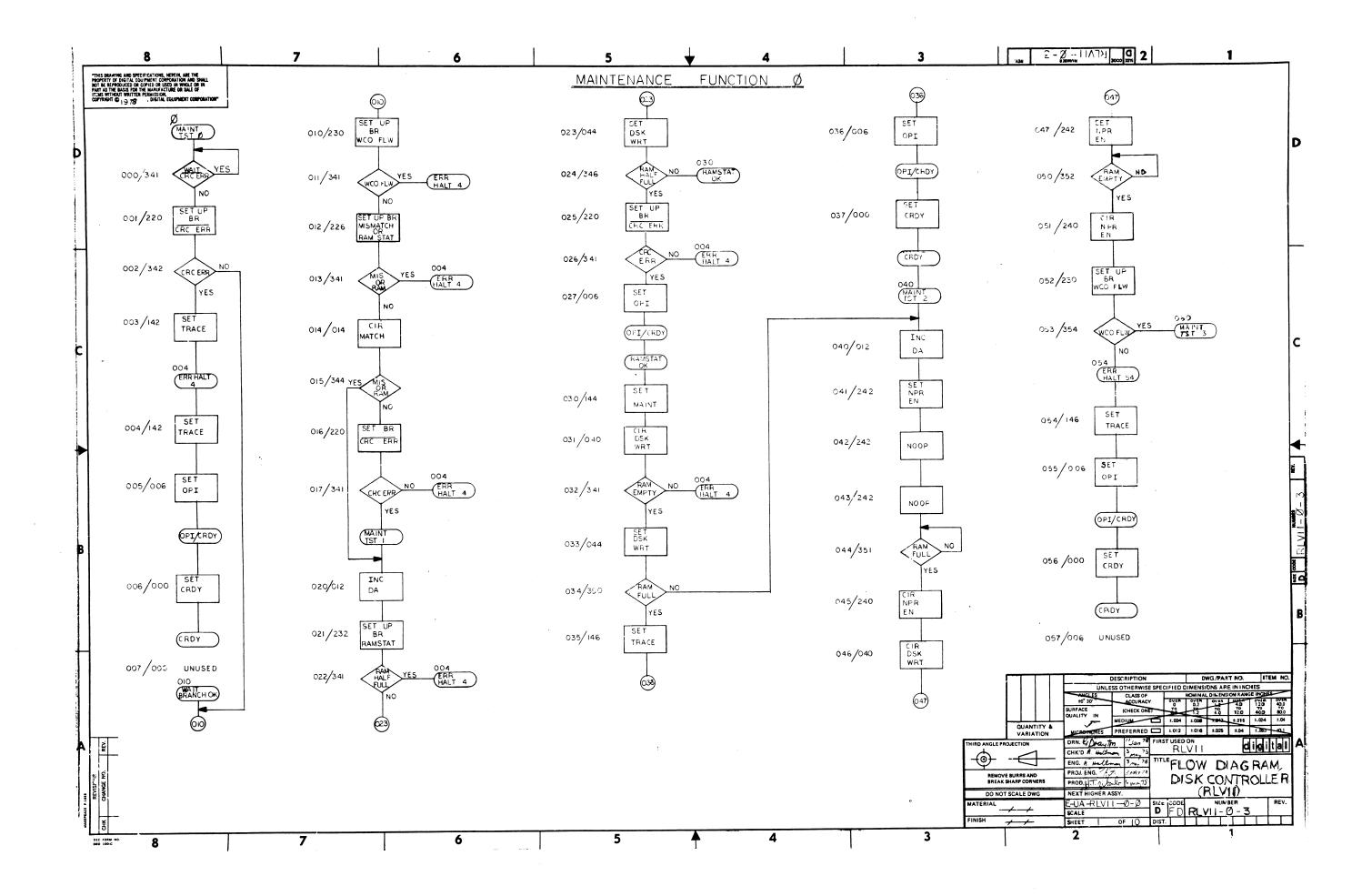
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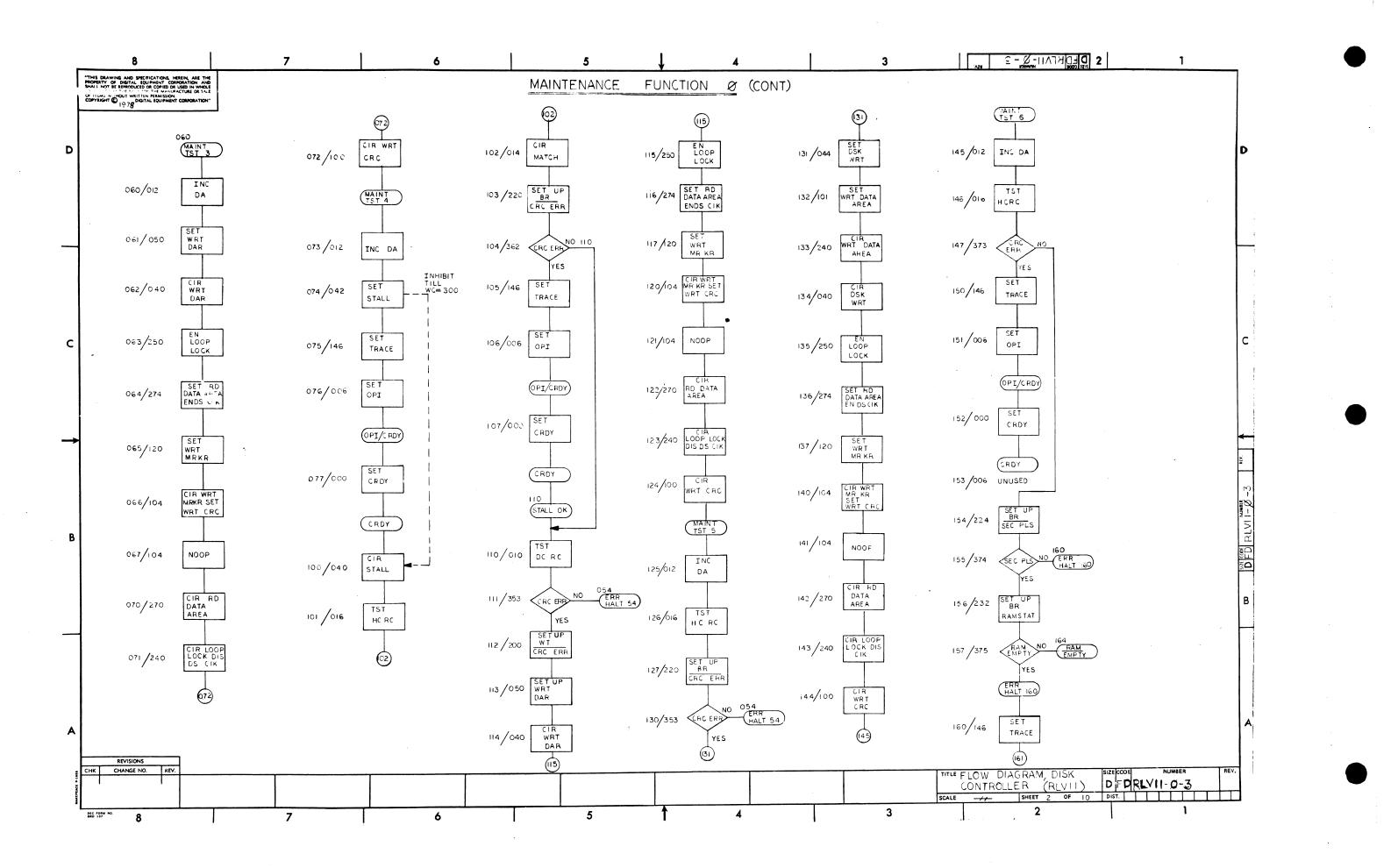


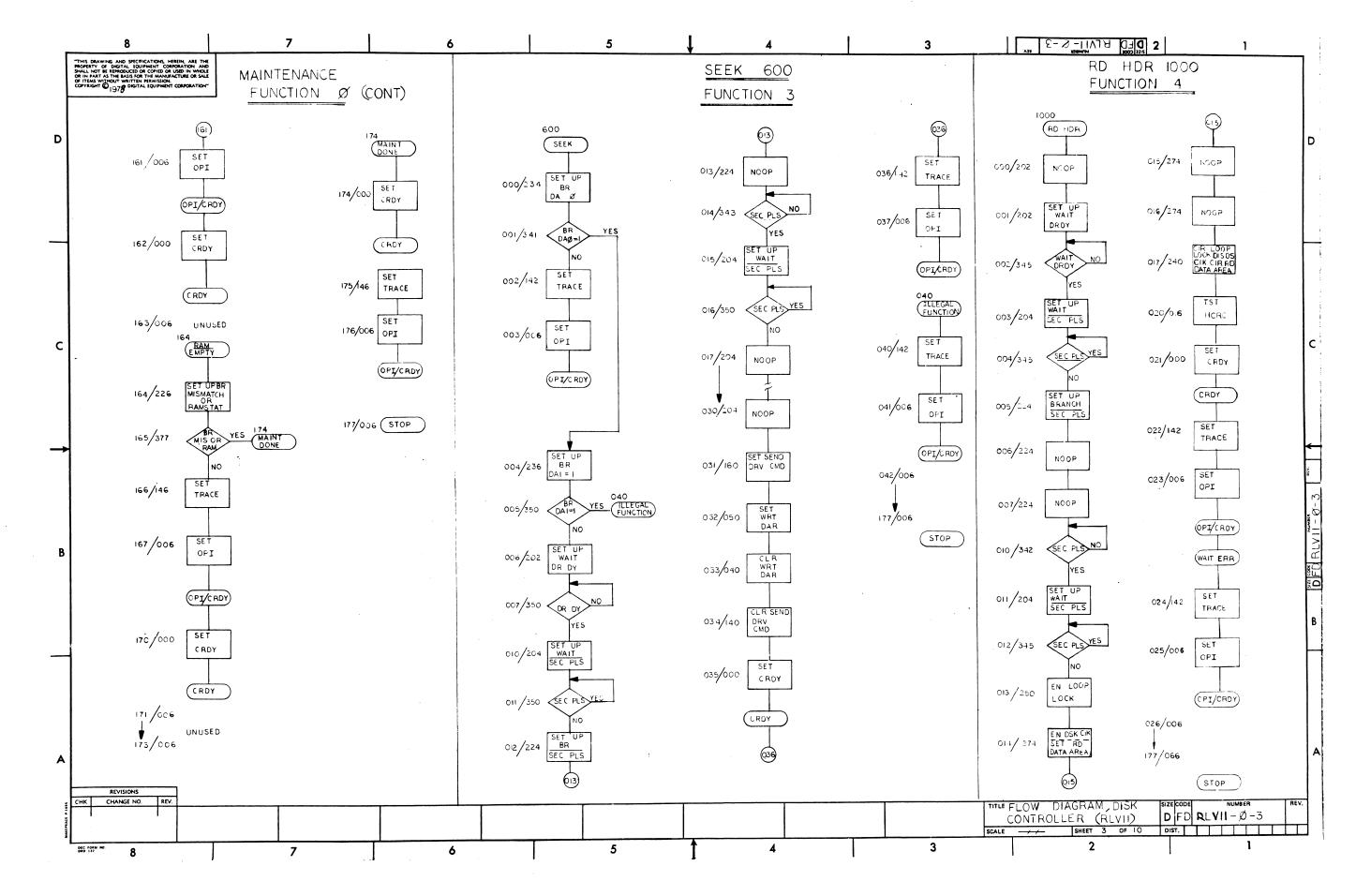
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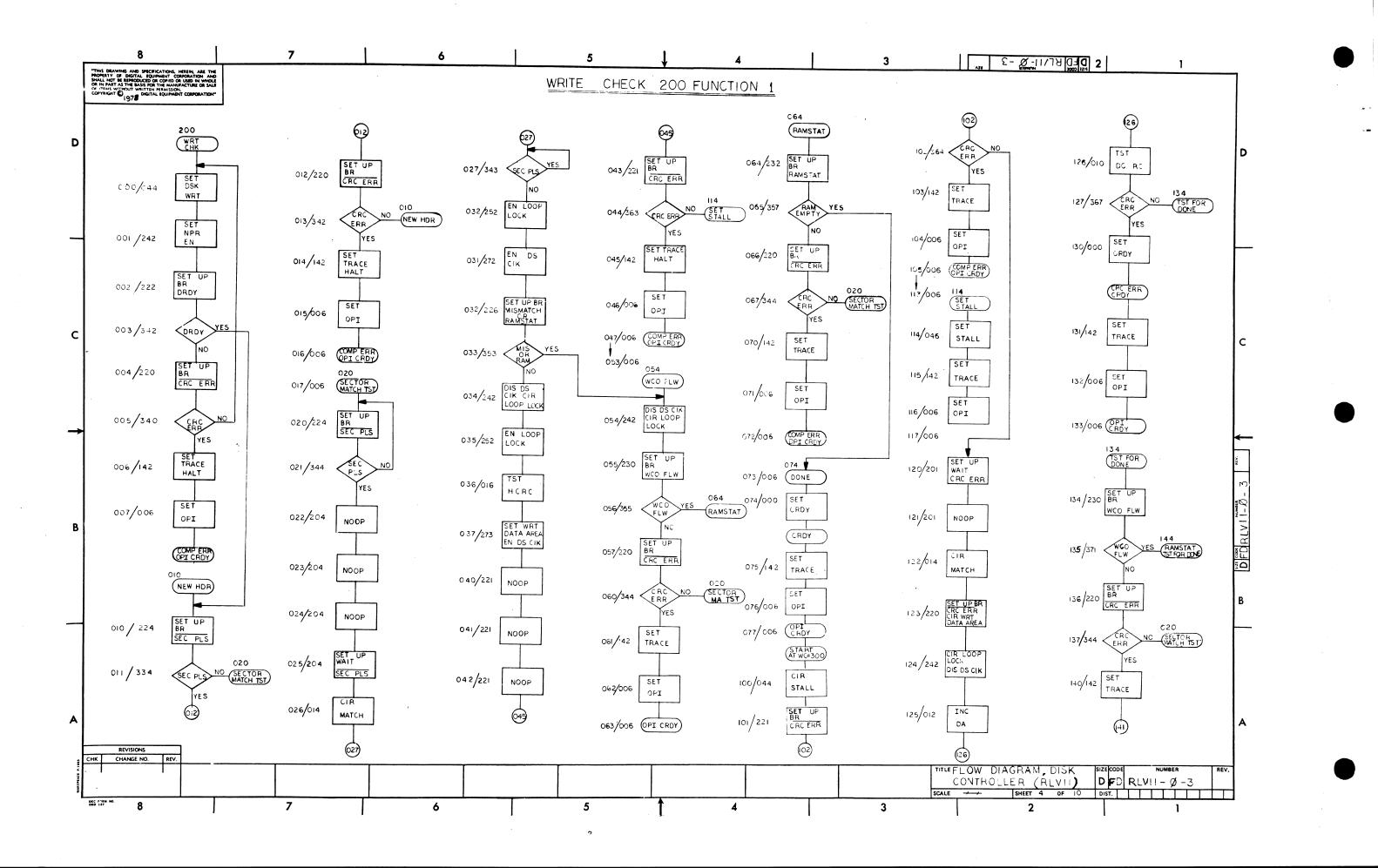
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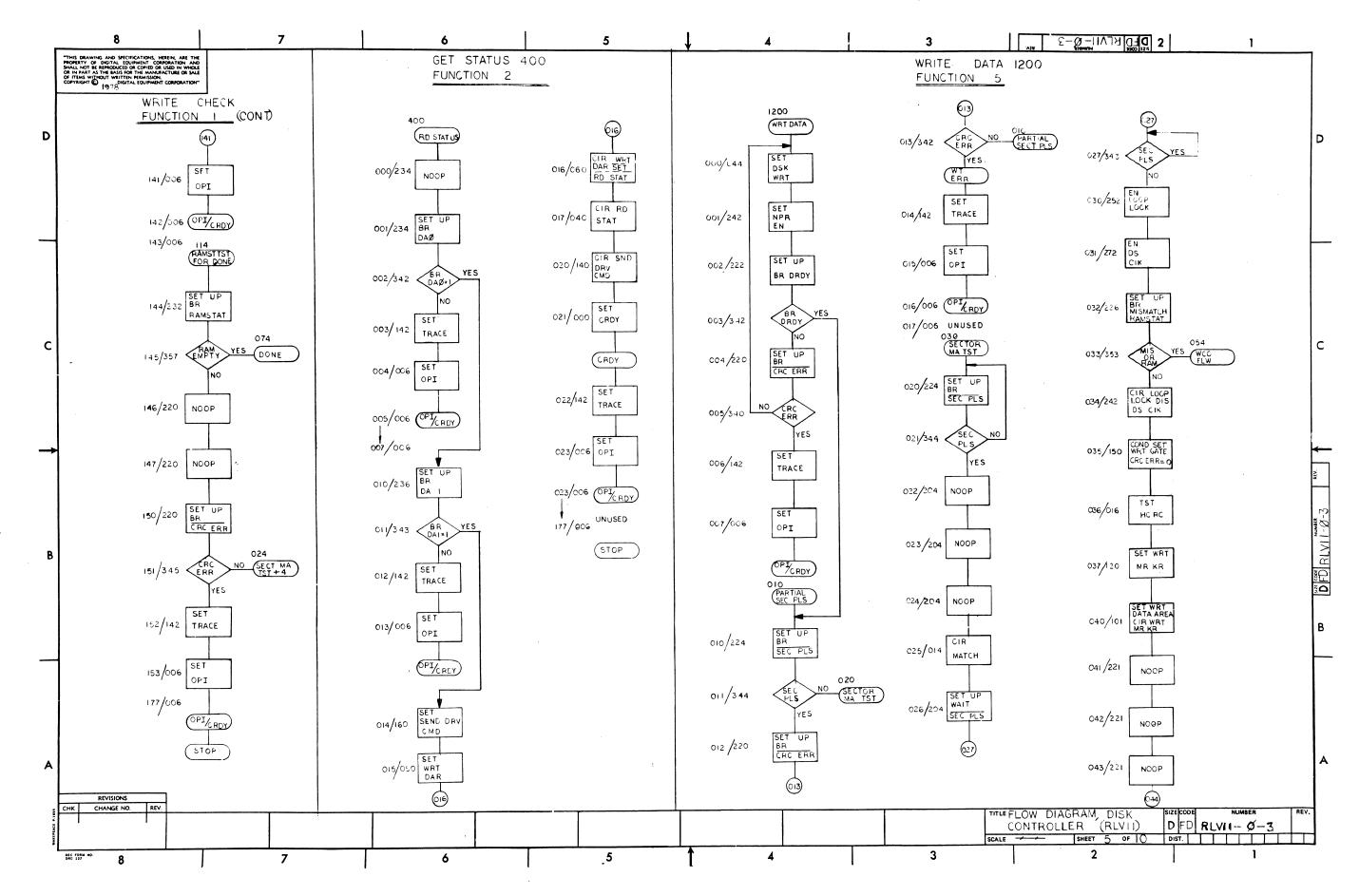


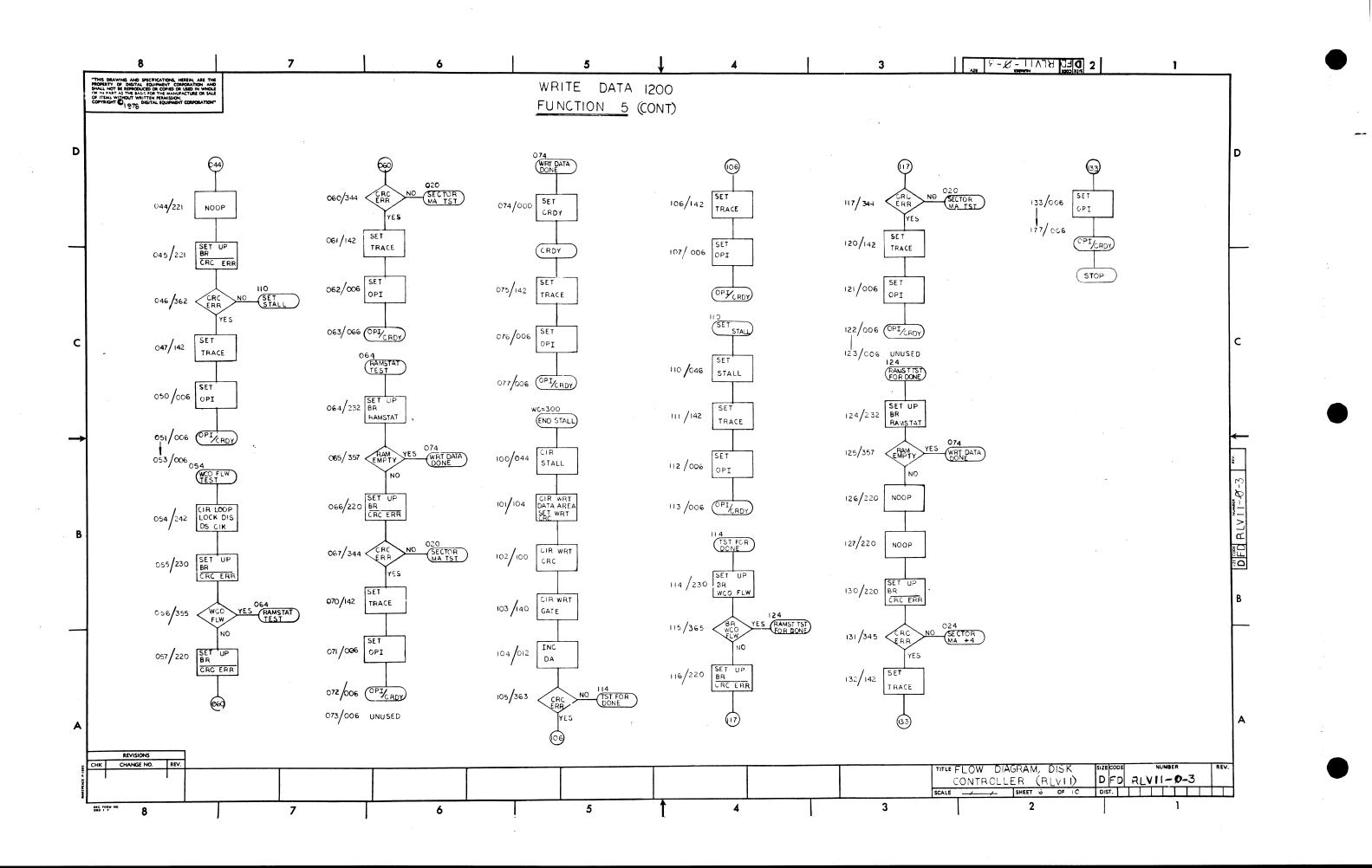


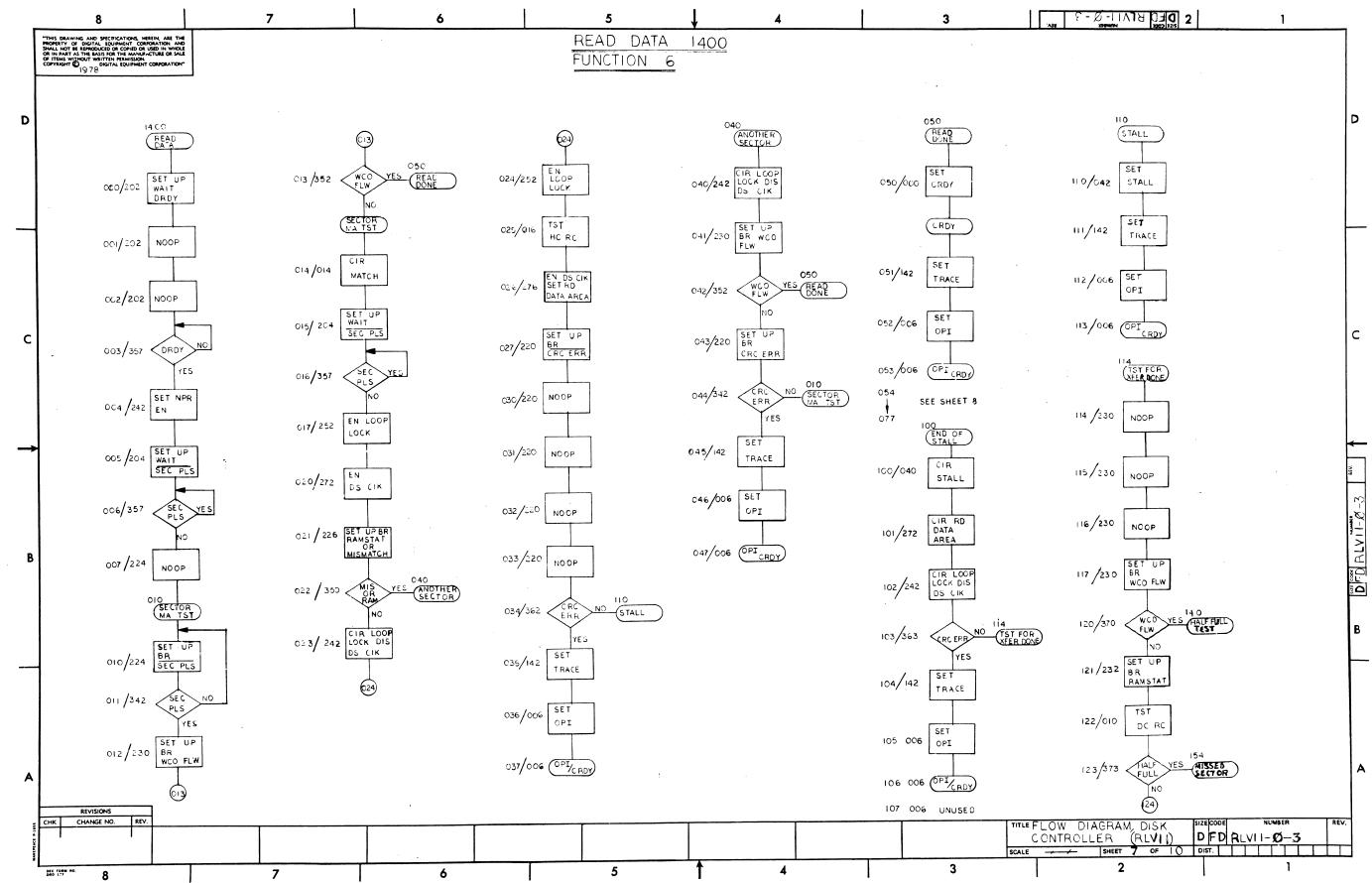


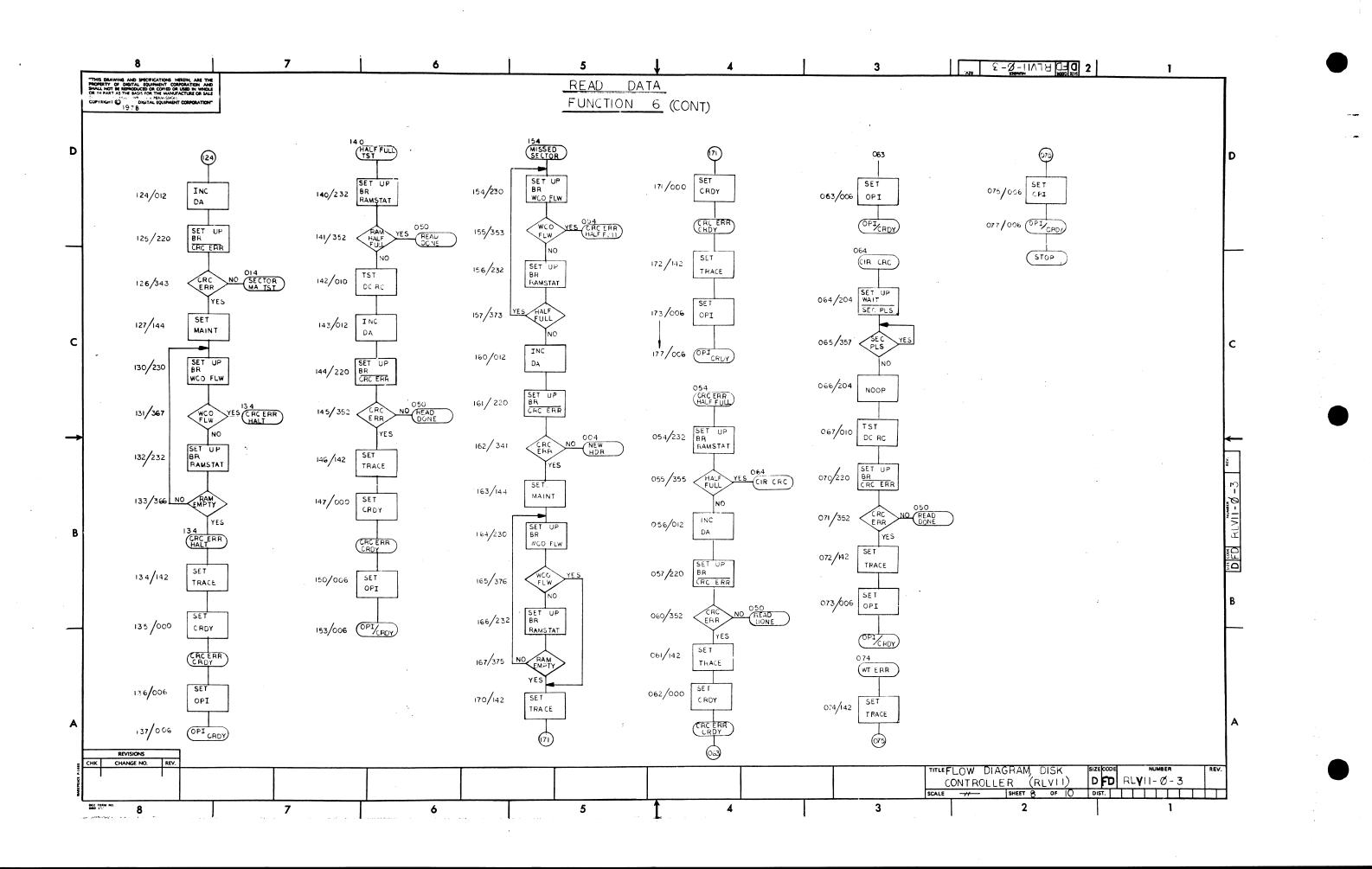


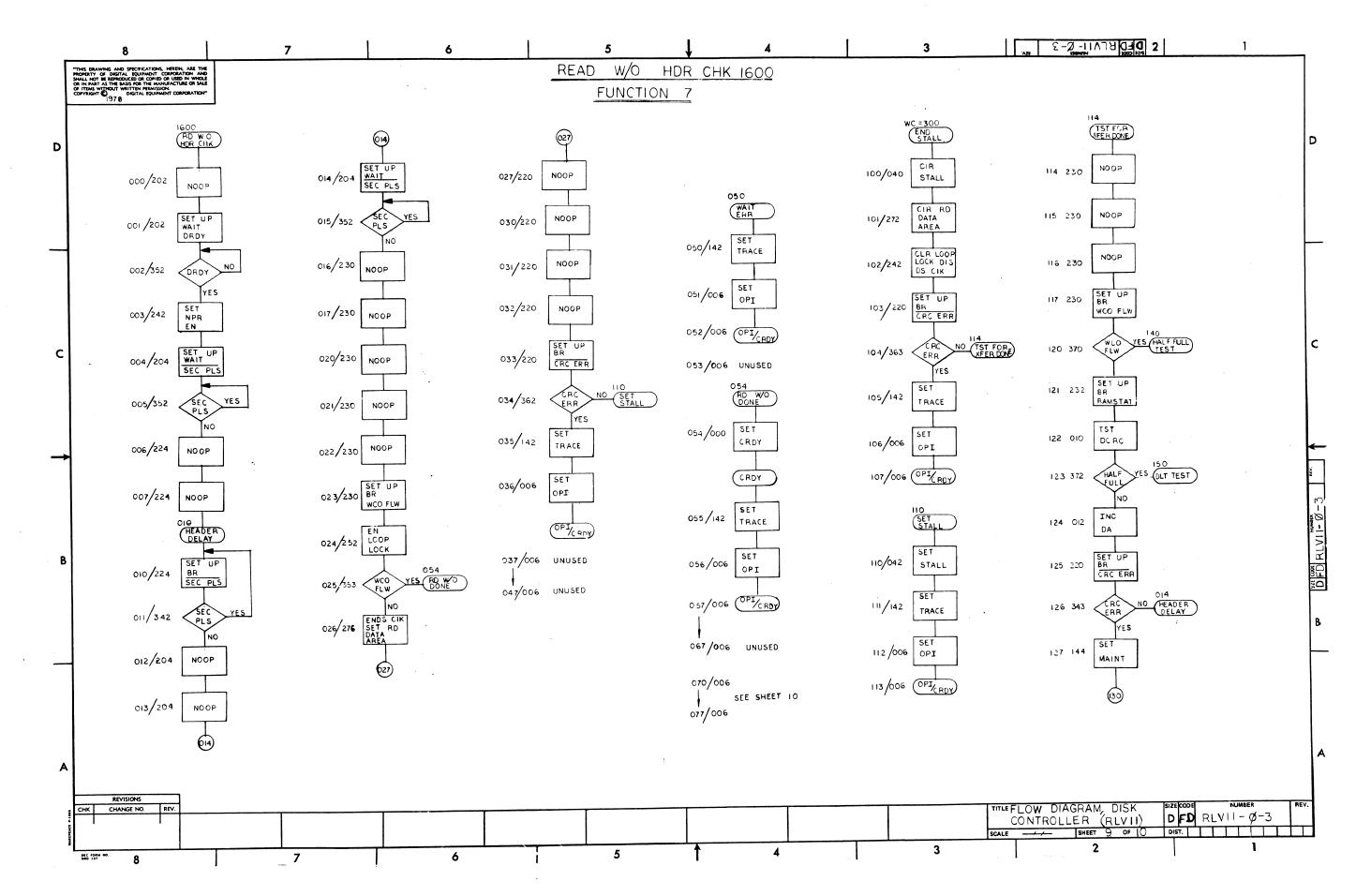


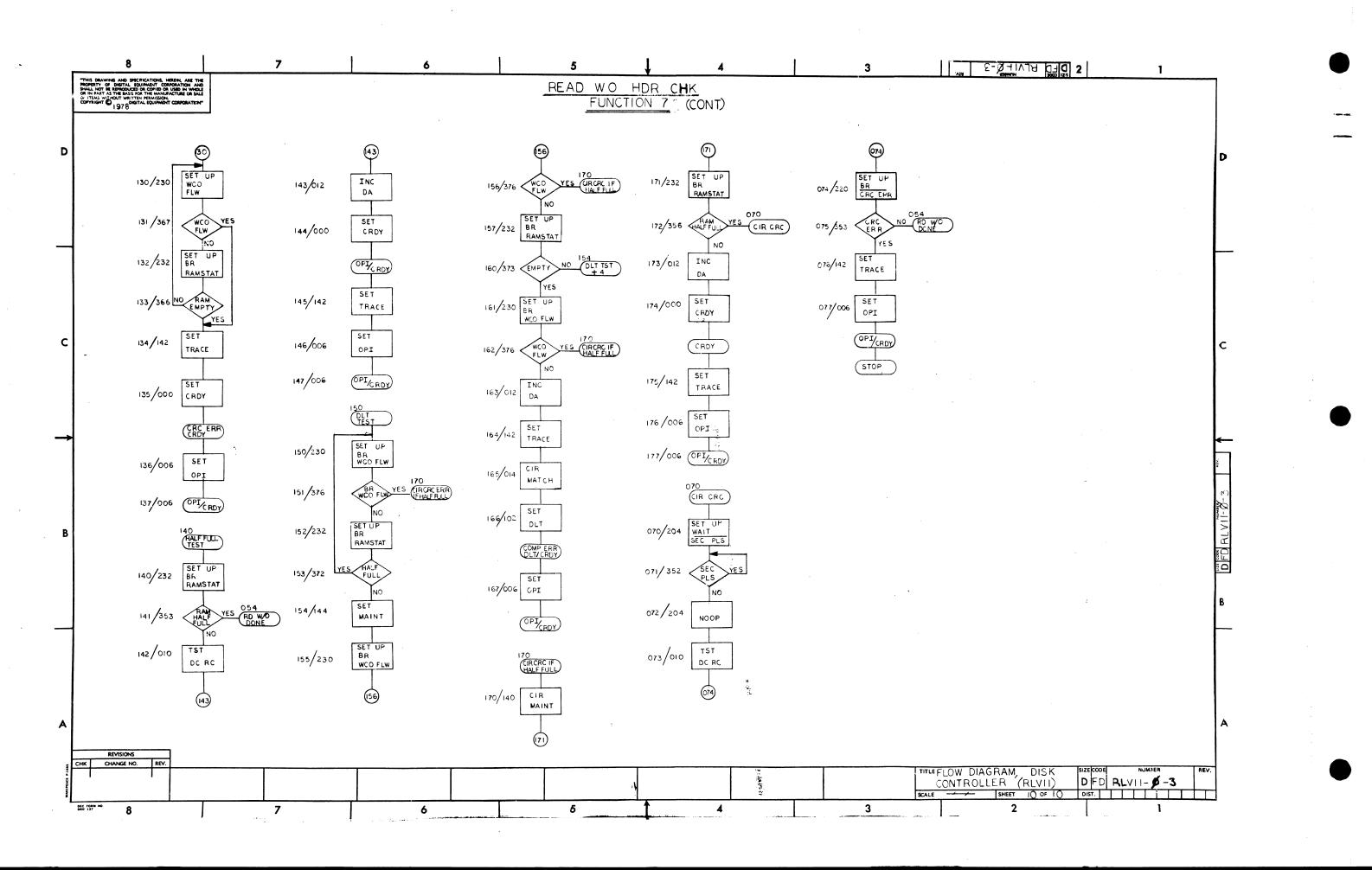


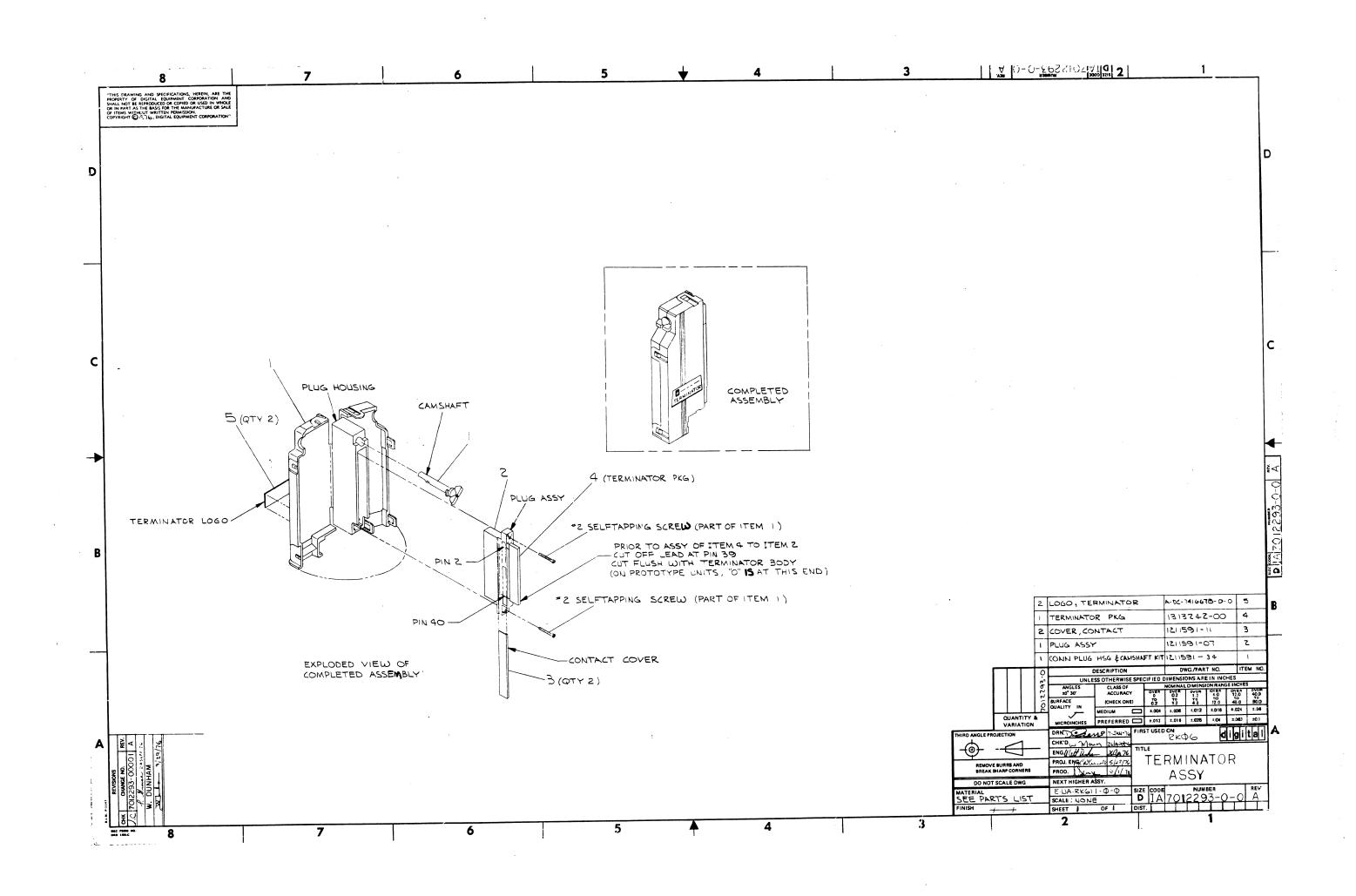








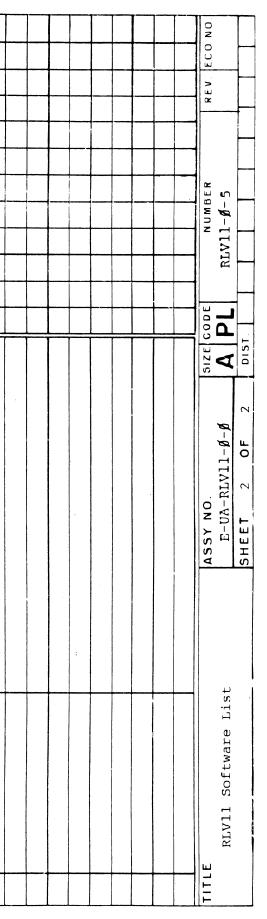




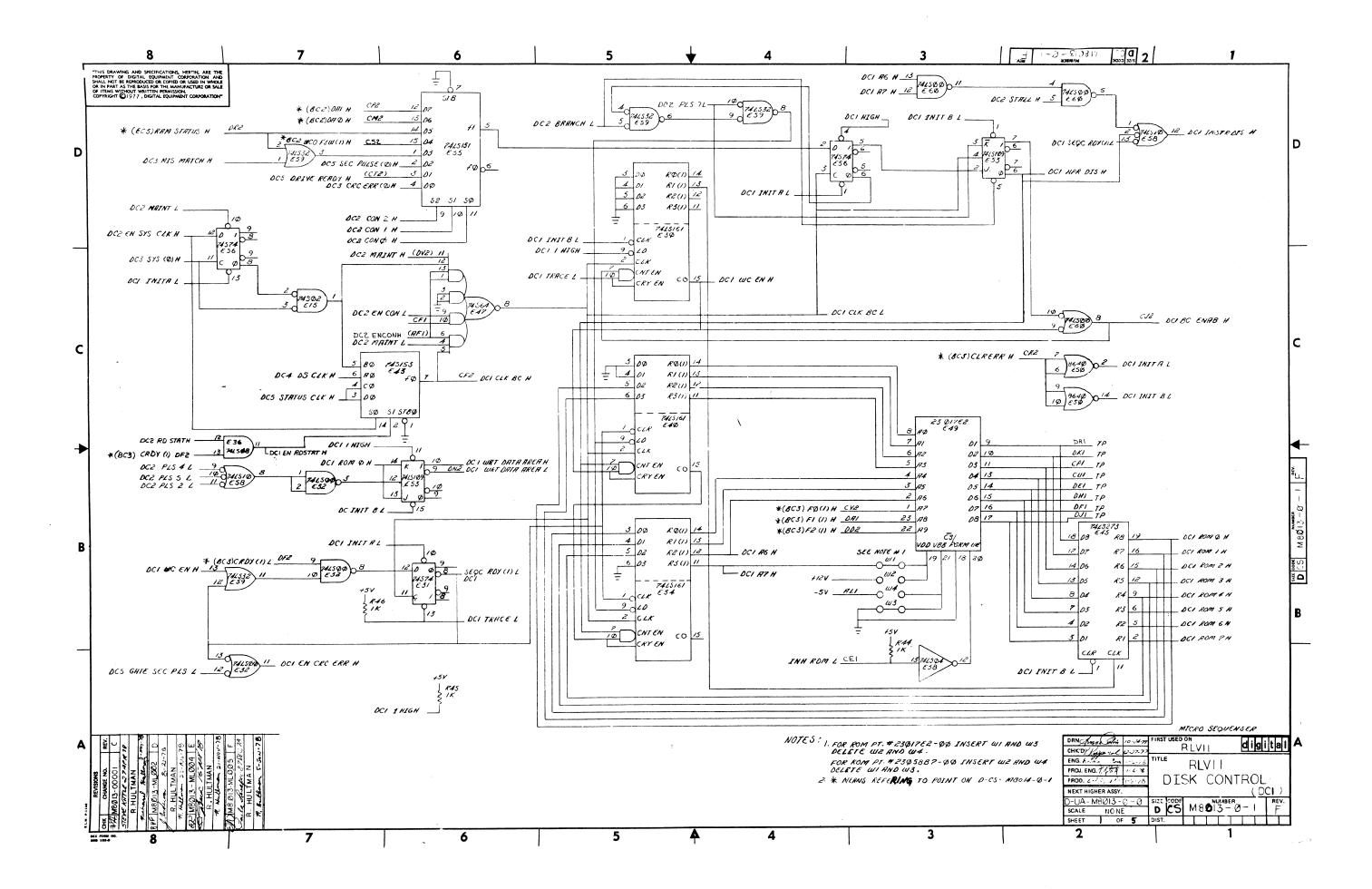
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ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	ZLZ		ZLZ				
	AC-EØ36B-MC	CZRLABO RL11/RLV11 CTRL 1 (DOC)	1						
7	AH-EØ37B-MC	RL11/RLV11 CTRL	1	1					
m	AK-EØ38B-MC	CZRLABO RL11/RLV11 CTRL 1 (PT1)							
4	AK-E Ø 39B-MC	CZRLABO RL11/RLV11 CTRL 1 (PT2)		1					
ഹ	AC-EØ40B-MC	CZRLBB0 RL11/RLV11 CTRL 2 (DOC)							
9	AH-EØ41B-MC	CZRLBB0 RL11/RLV11 CTRL 2 (FICHE)	1	•					
7	AK-EØ42B-MC	CZRLBBO RL11/RLV11 CTRL 2 (PT1)	-	1					
0	AK −EØ4 3B − MC	CZRLBBO RL11/RLV11 CTRL 2 (PT2)		-					Т
6	AC-EØ44B-MC	CZRLCB0 RLØ1 Drive Test 1 (DOC)		-					
10	AH-E Ø 45B-MC	CZRLCB0 RLØ1 Drive Test 1 (FICHE)	-						
11	AK-EØ46B-MC	CZRLCB0 RLØ1 Drive Test 1 (PT1)			1				
12	AK-EØ47B-MC	CZRLCB0 RLØ1 Drive Test 1 (PT2)	Ч	1					
13	AC-EØ48B-MC	CZRLDB0 RLØ1 Drive Test 2 (DOC)							
14	AH-EØ49B-MC	CZRLDB ^A RLØ1 Drive Test 2 (FICHE)	'						
15	AK-EØ5ØB-MC	CZRLDBO RLØ1 Drive Test 2 (PT1)		1	1				
16	AK-E Ø 51B-MC	CZRLDB0 RLØ1 Drive Test 2 (PT2)	Ы	1	П				
17	AC-E246B-MC	CZRLEB0 RLØ1 Perf Exer (DOC)							
18	AH-E247B-MC	CZRLEBO RLØ1 Perf Exer (FICHE)	1	1					
19	AK-E248B-MC	CZRLEB0 RLØ1 Perf Exer (PT1)		1					
20	AK-E249B-MC	CZRLEBO RLØ1 Perf Exer (PT2)		-					
21	AC-E250B-MC	CZRLFB0 RLØ1 Drive Cmpt (DOC)				+-			
22	AH-E251B-MC	CZRLFB0 RLØ1 Drive Cmpt (FICHE)	-					-1	
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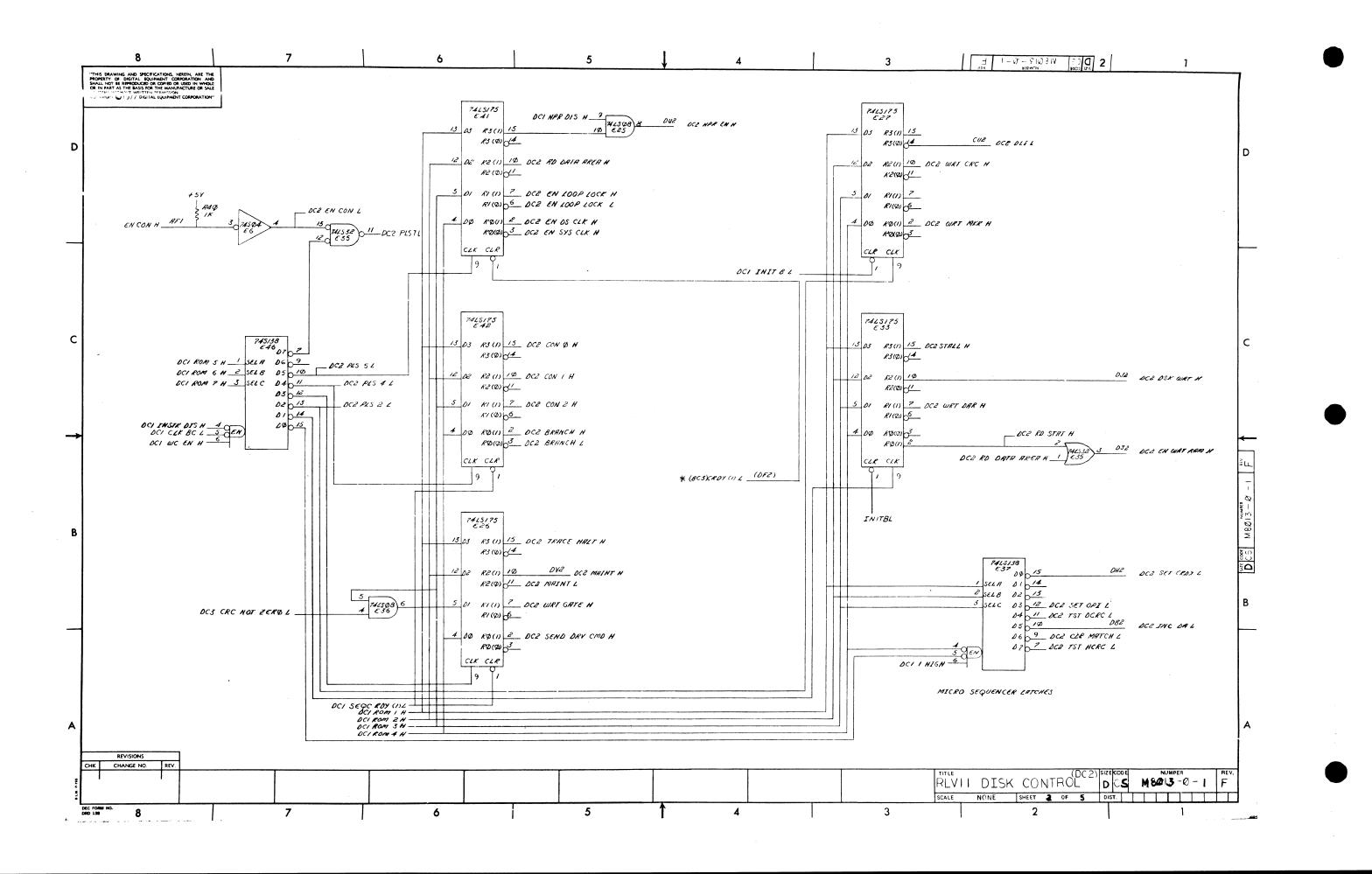
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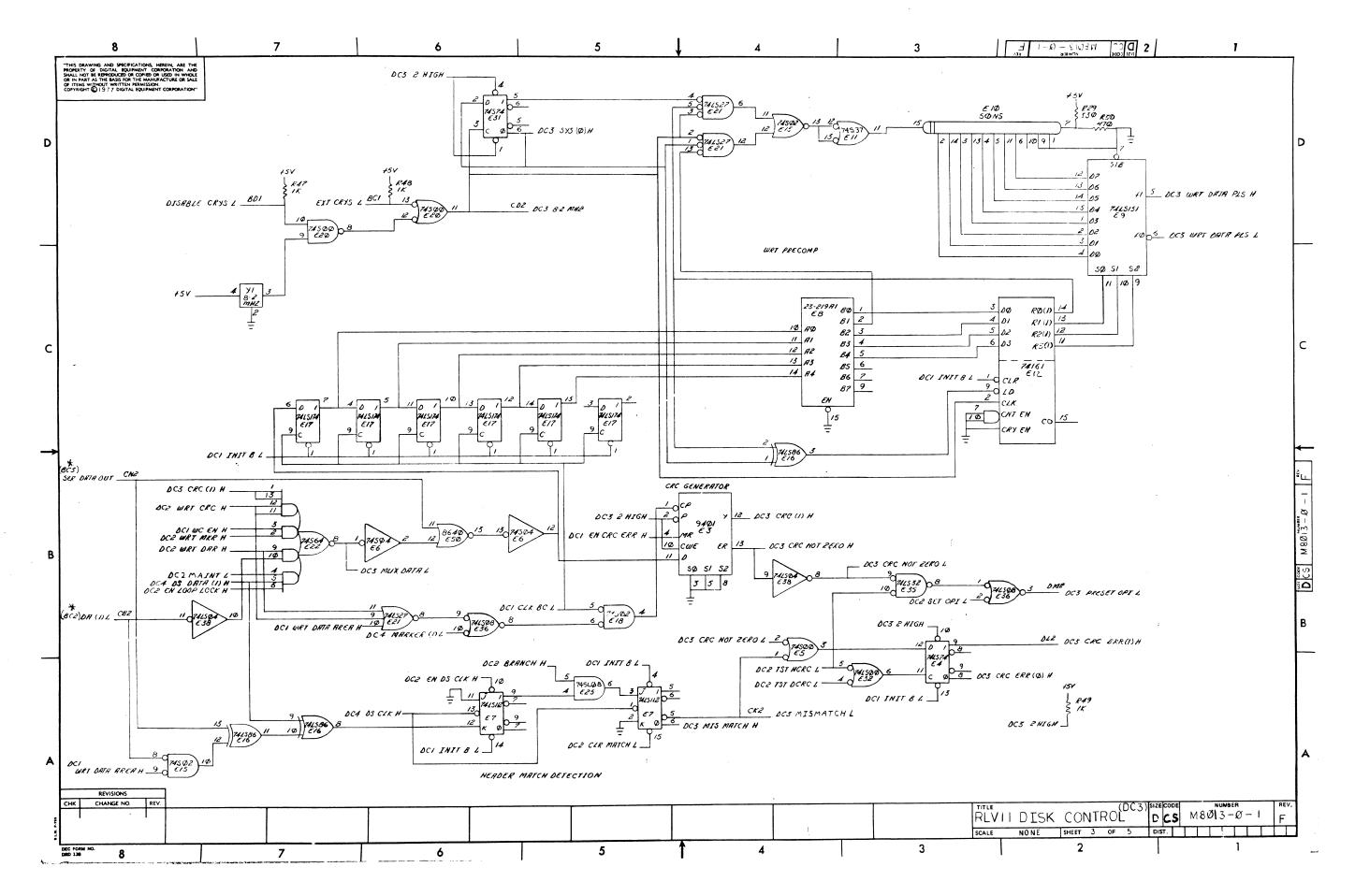
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UIPMENT CORPORATION	PARTS LIST	CHECKED Presignal Rulling SECTION	DATE 4	PROD HIT & Carlon ISSUED SECT. DATE 3 Willing 78		CZRLFB0 RL01 Drive Cmpt (PT1)	CZRLFB0 RL01 Drive Cmpt (PT2)	CVRLAA0 RLV11/RLØ1 DSK1S (DOC)	CVRLAAO RLV11/RLØ1 DSK1S (FICHE)	CVRLAAO RLV11/RLØ1 DSK1S (PT1)	CVRLAA0 RLV11/RLØ1 DSK1s (PT2)		*NOT TO BE SHIPPED REFERENCE ONLY		
DIGITAL EQ	PARTS	MADE BY Tuckord Kaking, CHECKED	4/18/78	ENG rectard Hultman DATE 4/18/78	DWG NO. / PART NO.	AK-E252B-MC	AK-E253B-MC	AC-B1Ø7A-MC	АН-В1Ø8А-МС	AK-B1 Ø 9A-MC	AK-E375A-MC				
		MAD	DATE	ENG DATE	NON	23	24	25	26	2.7	28				

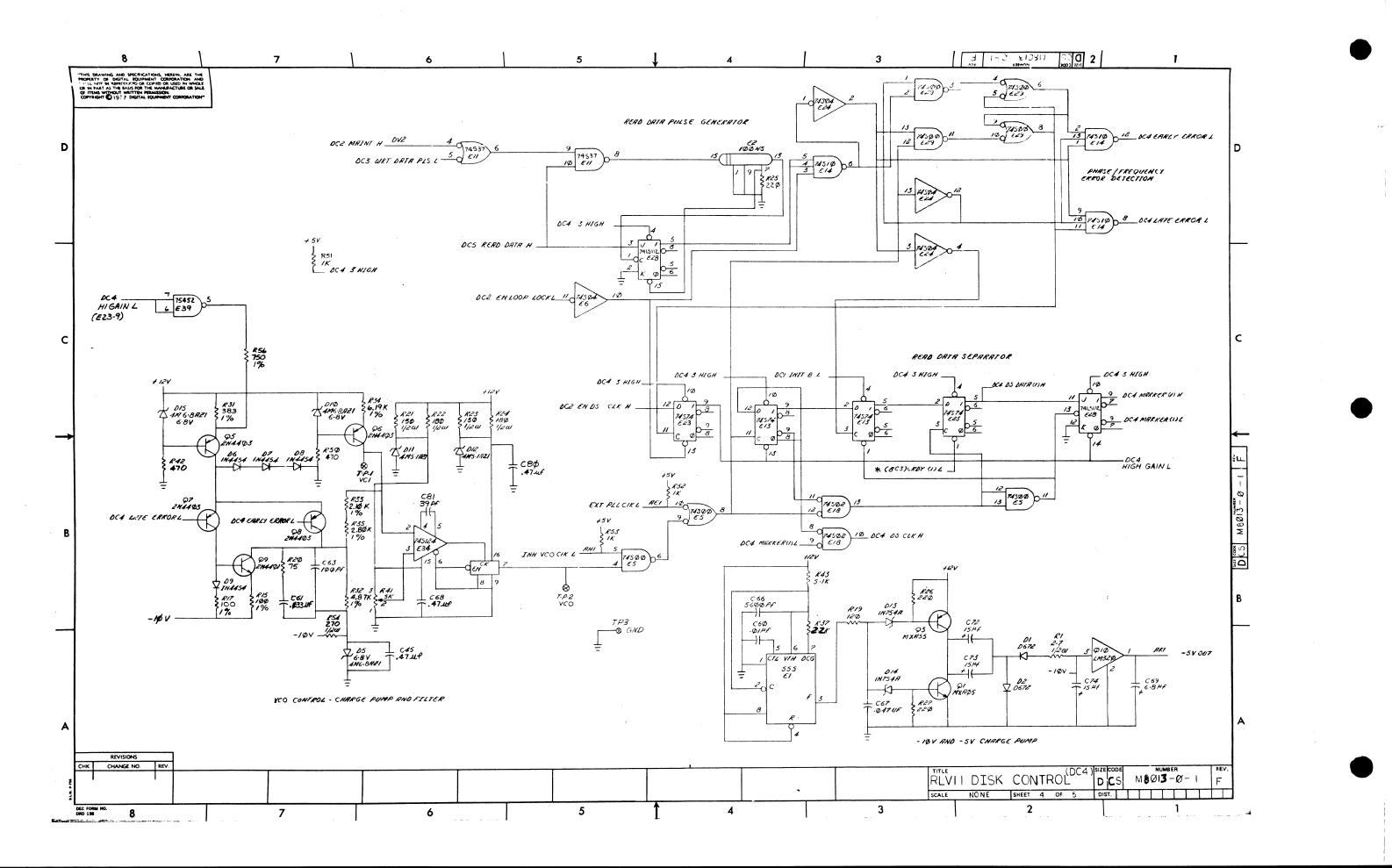


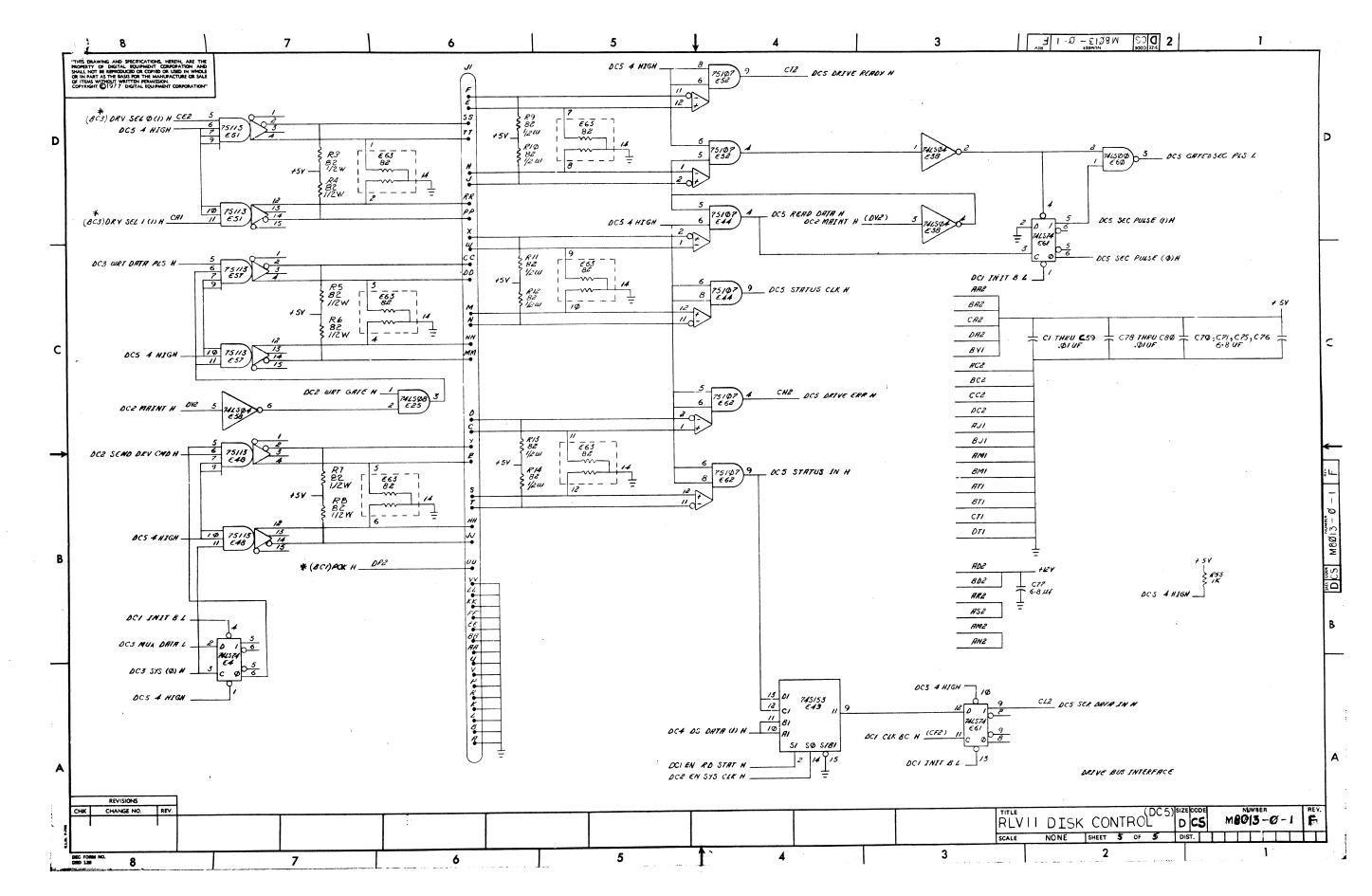


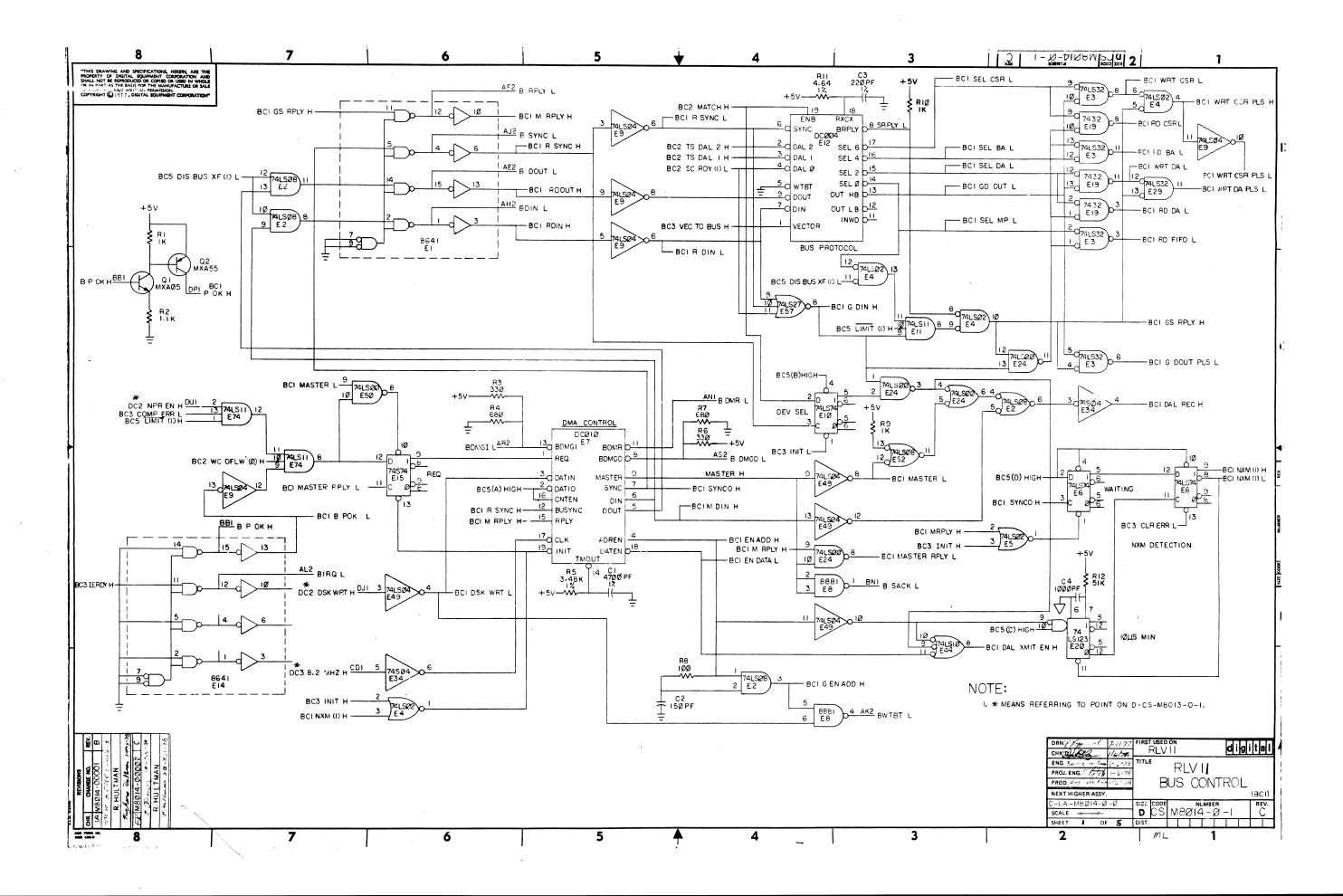


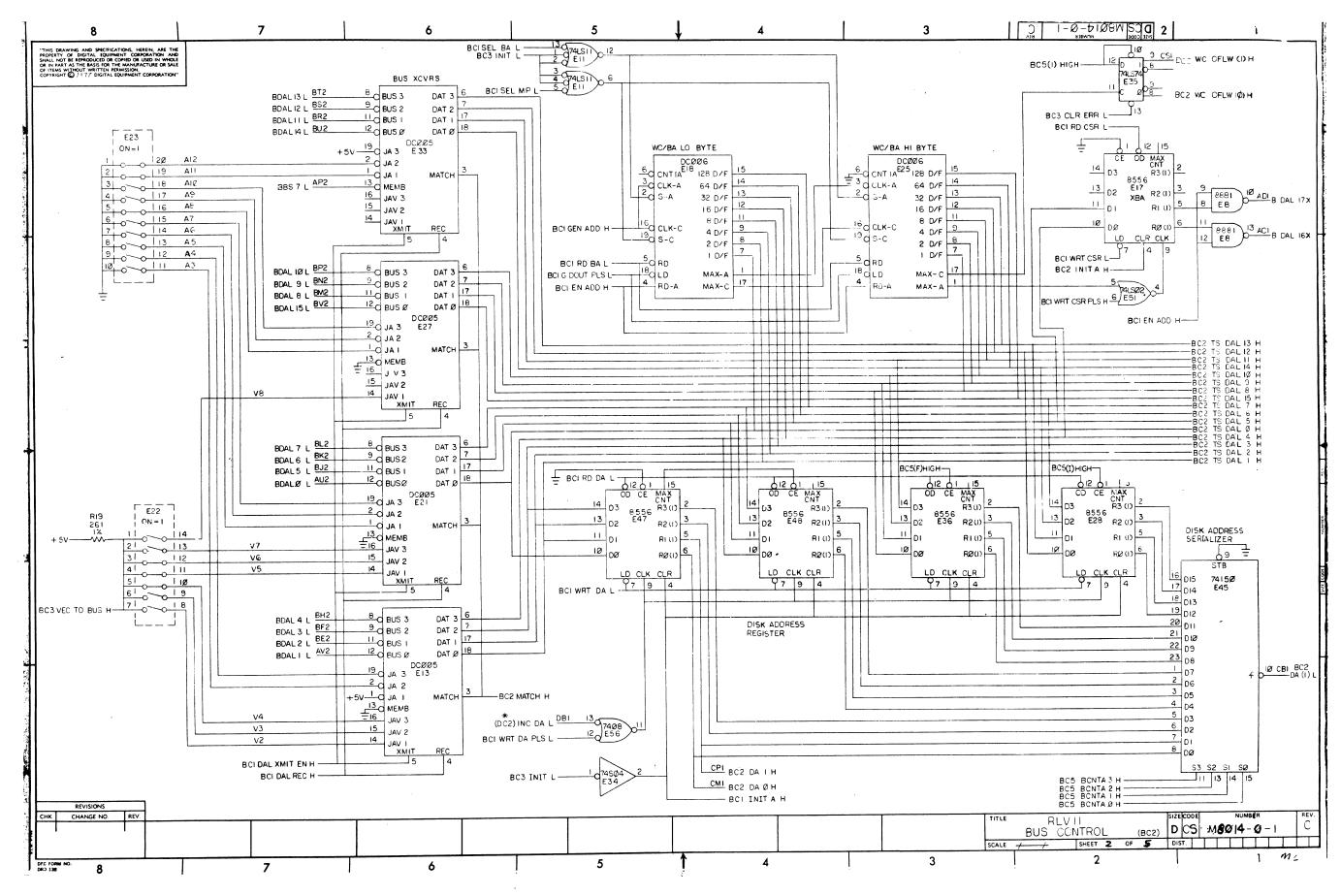


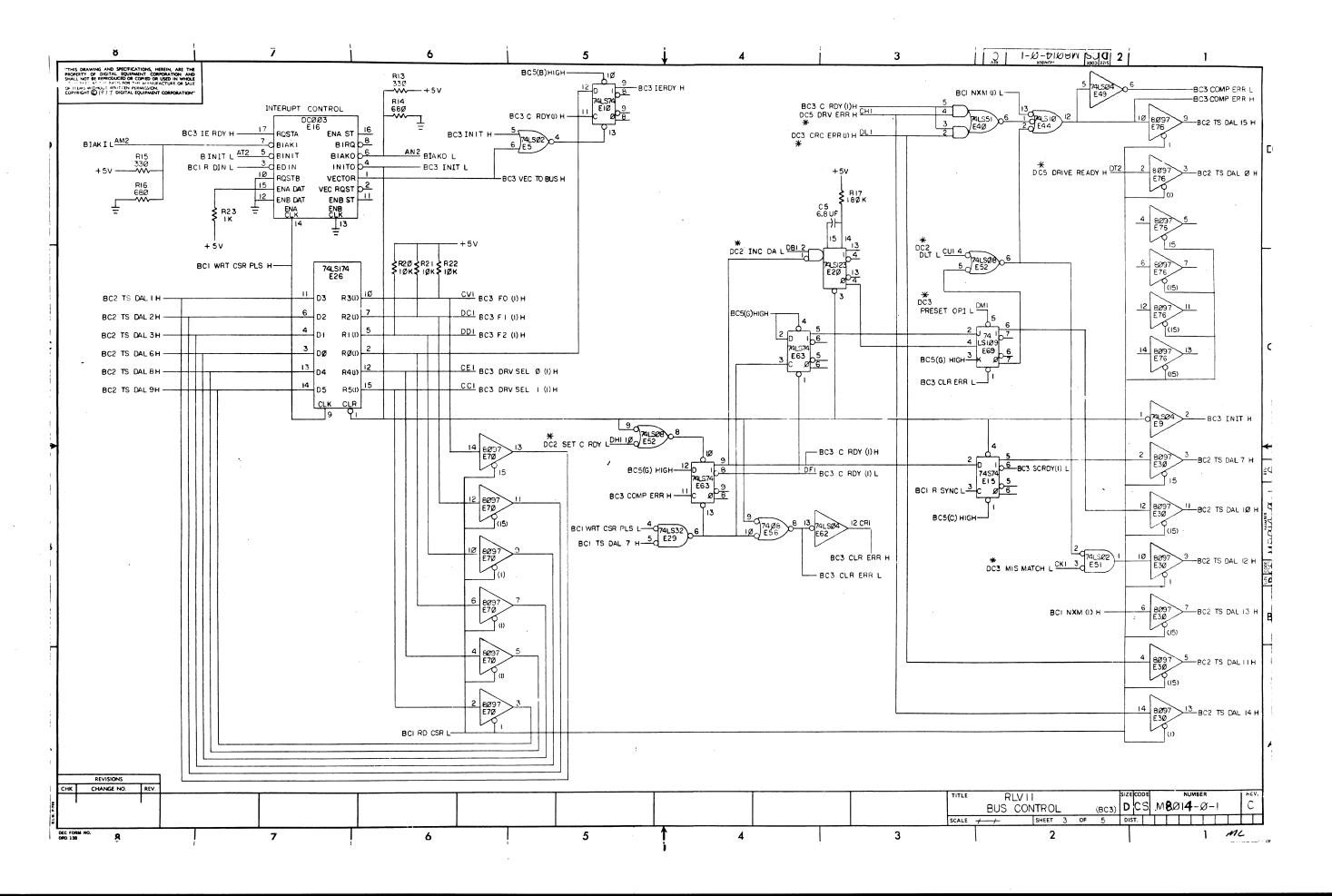


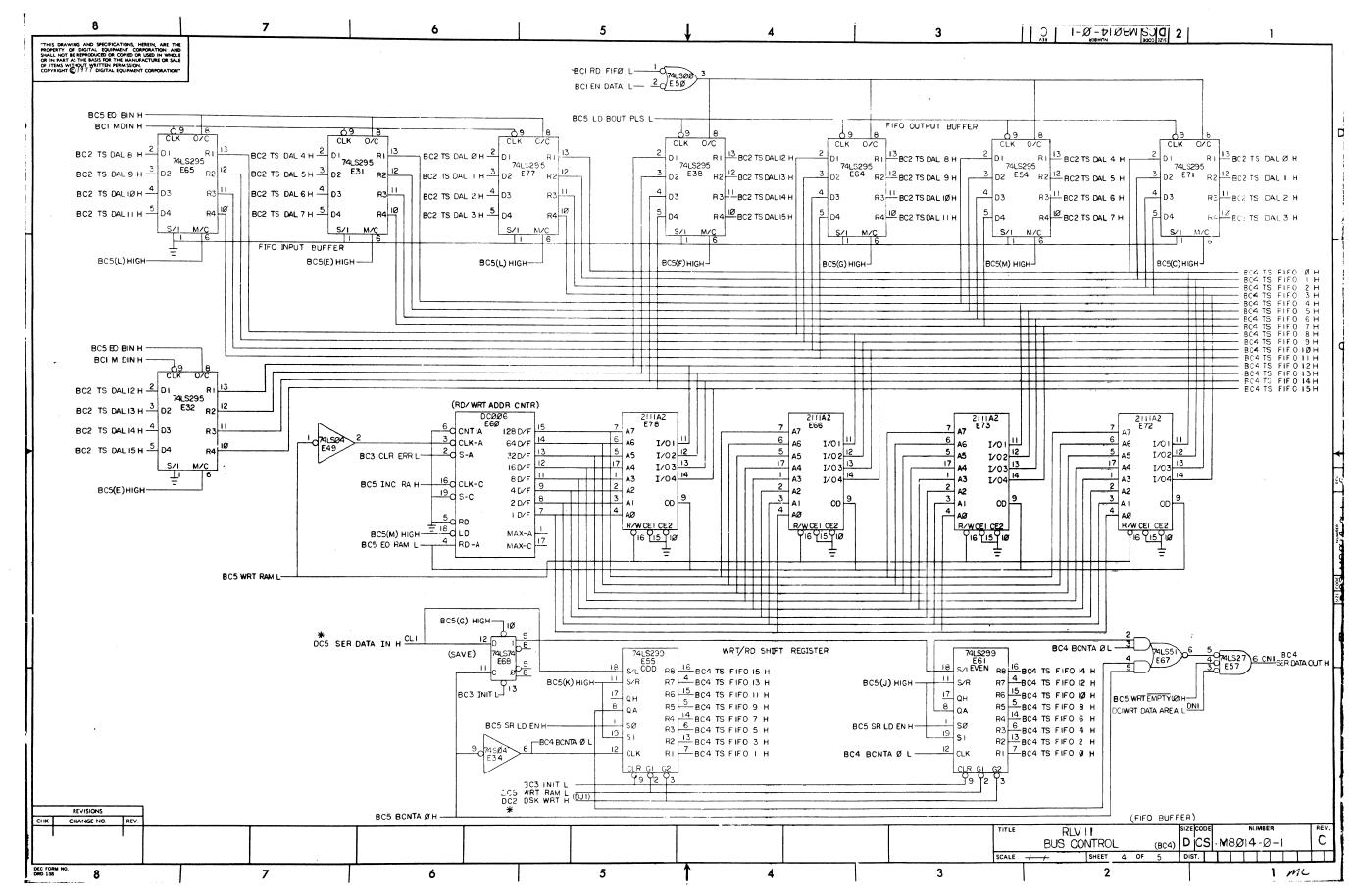


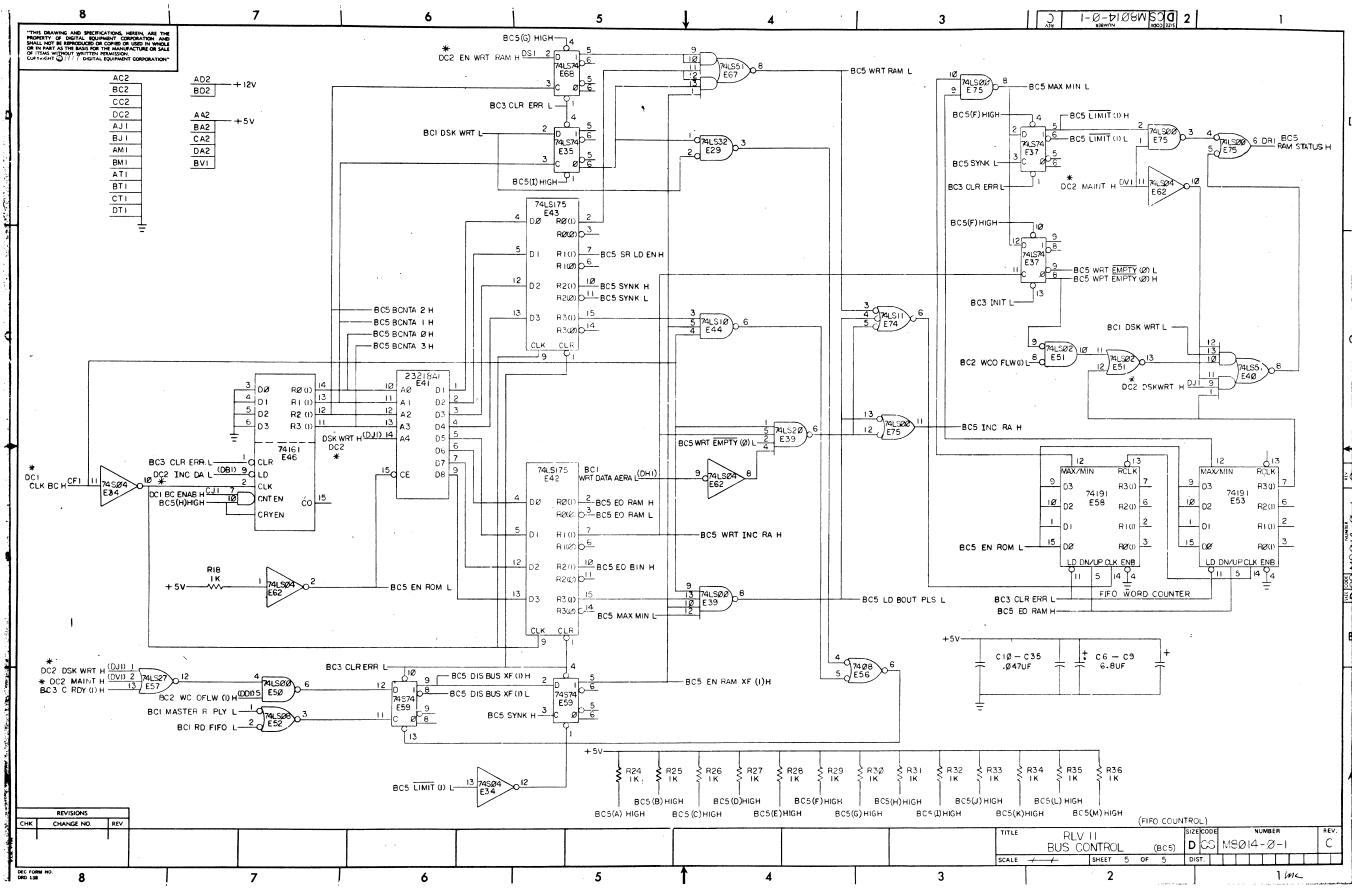






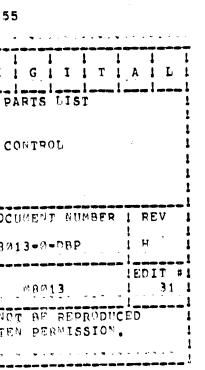






TOMATED BY PRTLST.10			OTY REFERENCE	DESTONATOR
NE ITEM DOCUMENT NUM	MBER PART NUMBER	DESCRIPTION	WIT REFERENCE	1 DESIGNATOR
1 1 D-MD-501296 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 26 27 27 28 28 29 29 30 30	$\begin{array}{llllllllllllllllllllllllllllllllllll$	RLV11 DISK CONTROL *** THIS ITEM IS NOT USED *** 100.0 MMF 100V 5%200PPM DM155 5600.0 MMF 100V 10% CW15C CER. .033 MFD 100V 10% 663UW MYLR .047 MFD 50V 20+80 CER .05 MFD 20V 10% S.TANT .01 MFD 100V -20+80 Z5U DISC SOCKET 16PIN LOW PROFILE D 672 TR= 15NS PIV= 60V SI 1N 4454 TR= 4NS PIV= 50 S 1/4N5.1AZ1 = 5.1 1% .25W N 1N 754A VZ= 6.8 5% .40W 4M6.8AZ1 VZ= 6.8 1% .40W SOCKET 24PIN IC 270 1/2W 5% CC 82 1/2W 5% CC 100 1/4W 1% RN55D=F 100P 120 1/4W 5% CC 300 1/4W 5% CC 1 K 1/4W 5% CC <td><pre>5 1 C63 1 C66 1 C61 1 C67 4 C68,C45, 6 C69=C71, 3 C72-C74 6 1 C1=C44,C 1 XE8 2 D1,D2 4 D6,D7,D8 2 D11,D12 2 D13,D14 3 D5,D10,D 1 XE49 1 R54 1 R1 12 R3=R14 1 R1 12 R3=R14 14 1 E63 pM 2 R15,R17 1 R19 * 2 R22,R24 3 R26,R27 1 R29 3 R30,R42 11 R40,R44</pre></td> <td>,C75-C77 C78,C79,C46-C60 8,D9 D15</td>	<pre>5 1 C63 1 C66 1 C61 1 C67 4 C68,C45, 6 C69=C71, 3 C72-C74 6 1 C1=C44,C 1 XE8 2 D1,D2 4 D6,D7,D8 2 D11,D12 2 D13,D14 3 D5,D10,D 1 XE49 1 R54 1 R1 12 R3=R14 1 R1 12 R3=R14 14 1 E63 pM 2 R15,R17 1 R19 * 2 R22,R24 3 R26,R27 1 R29 3 R30,R42 11 R40,R44</pre>	,C75-C77 C78,C79,C46-C60 8,D9 D15
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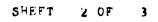


			PARIS DIST			
INE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PEFEPENCE DESI	TNATOR
31 31		1305145-00	2.8 K 1/4W 1% RN55D-F 100PPM	1	R35	
32 32		1309143-09	5 K 3/4W10% POT 100PPM	1	R41	
33 33		1312930-00	5.1 K 1/4% 5% CC	1		
34 34		1305125-00	383 1/40 18 RN55D-F 100PPM	1	R31	•
35 35		1314187-90	6.19 K 1/4W 18 PN55D-F 100PPM	1	R34	
36 36		1313592+00	4.87 K 1/4W 18 RN55D-F 100PPM	ĩ		
37 37		1312923-00	2.10 K 1/4W 18 RN55D-F 100PPM	1	R33	
38 38		1510705-00	XA 05 NPN 500MM SI 60 50 P	1	Q 1	
39 39		1510706-60	XA 55 PNP 500MW SI 60 50 P	1	Q3	
46 46		1513490-00	2N 4403 END 350MW 81-40 30	4	Q5=Q8	
41 41		1513489=00	2N 4401 NPN 350MW SI 40 20	1	09	
42 42		1610033=00	DELAYE 10-100NS, 10TAPS	1	E2	
43 43		1614159-90	DELAY 50NS, 10TAPS	1	出1 の	
44 44		1912799-00	LS00 NAND-GATE-QUAD 2TN,P	2	E32,E6Ø	
4 5 45		1912803-00	LS04 INVERTER GATE-HEX 11	1	E38	
46 46		1912805-00	LS08 AND GATE-QUAD 21%, PO	2	E25,E36	
47 47		1912807-00	LS10 MAND GATE-TRIPLE 3TN	1	£58	
48 48		1912813-00	LS27 NOR GATE-TRIPLE 31M	1	E21	
49 49		<u>1912816-</u> 00	LS32 OF GATE-QUAD 2TN, POS	2		
50 50		1912824-00	LS74 PF-D DUAL,EDGE TRIGG	2	E4,E61	
51 51		1912829-00	ISA6 X-OR GATE-QUAD 2TH	1	E16	
52 52		1912833-00	LS109 FF-JK DUAL,POS EDGF	1	E53	
53 53		1912842-00	LS138 DECODER-THREE INFUT,	1	E37	
54 54		1912844-30	LS151 MUX 1 OF 8 & DATA	2	E9,E55	
55 55		1912697-00	LS174 FF-D HEX W/CLEAR	1	E17	
56 56	<i>с</i> .	1912853-00	LS175 PF-D QUAD	- 5	E26,E27,E33,E	41,E42
57 57		1912863-00	LS273 FE-D OCTAL W/CLEAR	۱	-	
58 58		1910950-00	74874 FF=D DUAL (=45 VFRSI	3	E23,E31,E56	
59 59		1910091-00	*** THIS ITEM IS NOT USED ***			
6 0 60		1910650-00	74161 COUNTER, SYNCHR, UP	1		
61 61		1910542-00	74864 A-0-1 GATE 4-2-3-2		E22, F47	
62 62		1910532-00	74500 NAND GATE-QUAD 21NS	3	E5,E20,E29	
63 63		1912388-Cu	74502 MOR GATE-QUAD 21M, PO	2		
64 64		1910534-00	74504 INVERTER GATE-HEX 1I	2		
65 65		1919536-40	74510 HAND GATE-TRIPLE 3TN	1		
66 66		1910544-00	74574 FF=D DUAL, FDGE TRIGG	1	E13	
67 67		1910545-00	*** THIS ITEM IS NOT USED ***	*		
68 68		1911911-00	DEC 745124 OSCILLATOR, LHAL VOLT	1	£34	
69 69		1910547-00	745153 MUX 1 OF 4 (DHAL)	1	E43	
70 70		1910268-00	DEC 751070 RECEIVER, LINE, DUAL,	3	E44,E52,E62	
71 71		1911341-00	75113 DRIVER, LINE, DUAL, MA	3	E48,E51,E57	
72 72		1911469-00	DEC 8640 RECEIVER, BUS, ONAD, D	1	E50	
73 73		1913474-00	9401 GENERATOR/CHECKER CR	1	E3	
74 74		1911944=00	555CN TIMER, FUNCT, BLOCK	1	F. 1	
75 75		1912541=06	VOLT. FEG.FIX -	1	Q1.4	
76 76		2305887- Rめ	*** THIS ITEN IS NOT USED ***	~		
77 77		1912834-00	LS112 FE-JK DUAL, EDGE TRTG	7	E7, E28	
78 78	• . • • • • . • . • . • .	1911675-00	745138 DECODER/DEMIX 3-8 LTN	1	E46	
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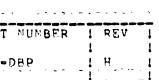
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PARTS LIST



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AUTOM	ATED	BY PRTLST.1C(4)		PARTS LIST		
LINE	ITEN	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	GTY	REFERENCE DESIGNATOR
79	79		1912849-00	LS161 COUNTER, SYNCHR, 4BIT	3	E30,E40,E54
80	80		1811660-12	OSCILLATOR, CRYSTAL 8.2000MHZ	1	¥ 1
81	81		1209941=02	HEADER 100 40POS RT ANGLE	1	. J1
82	82		1209941-03	HEADER RT ANGLE DEFT L	1	·
83	83		1209941-04	HEADER RT ANGLE, RIGHT	1	
84	84		1213113-01	HANDLE, MODULF,	1	
85	85		9009185-00	JUMPER, MIDE, INSULATED, BLACK B	4	W1-W4
86	86		9000024=01	EVELET, POLLED FLANGE, 121 OD X	8	
87	87		9007791-00	TERM PCB 2205 SOLDER, TURRET	3	TP1, TP2, TP3
88	88		23219A1-00	A1=07	1	E A
89	89		9007201-00	TRANSTPADS #10253	1	-
90	90		9105740-55	WIRE (WRAP) 30AWG UL1423	AIR	
91	91		1365249=00	150 1/24 5% CC	2	R21, R23
92	92		1912746-00	DEC 74837 MAND GATE-QUAD 21N	1	E11
93	93	SEE NOTES	2301762-00	E2=01	1	E 4 9
94	94		1000010-00	39 0 MMF 100V 58200PPM DN158	1	C P 1
95	95	BLANK			P	
96	96	e Lanta a	1302955-40	756 1/40 1% PN55D=F 100PPM	1	856
97	97		1910645-00	75452 ORIVER, PERIPH, DUAL,	i	E39
98	98		1303064-00	75 1/44 18 PN550-F 100PP4	1	R2-0
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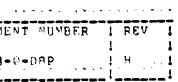
99 NOTE: PARTS SUBSTITUTION LIST 100 NOTE: NOTE: NOTE: FOR E49:23017E2-00 IS PREFEREND ;ALLOWABLE SUBSTITUTION IS 2305887-00 101 NOTE: 102 NOTE:

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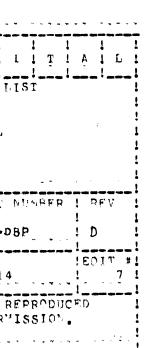
1 1 D-MD-50129					
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REVISION HISTOR	!SECTION	1 OF 1	IRESP, ENG, I. R. FULLTMAN	ATF: 24-APR-78	
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			р <u>5</u> џ.ЕиG.: Р. роттиар и		
1			IPEQD.: P. KIEK		K PL M8014-0-DBP D
•			ASSEMBLY WUNDER: D-UA-08014	, (7 m /)	ED PART NUMBER: MAR14

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AUTOMATED BY PRTLST. 2D(12) PARTS LIST







AUTOHATED HY PRTIST, 20(12)

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PARTS LIST

LINF	ITEM	DOCUMENT UNMBER	PART NUMBER	DESC	BIELLO.	•	OTY	REFERENCE DESIGNATOR
						,		
31	31		1912813-00		1.527	NOP GATE TRIPLE 31	1 1	E57
32	37		1912816-00		1.532	OR GARE-QUAD 211, P	15 2	R3,F29
33	13		1912820-00		1.551	A-O-T GATE 2-MIDE	2 I 2	EF7, E4の
34	34		1912824-00		1,574	FF-D DUAL FDGE TPI	:6 6	E68,863,835,E37,810,86
35	35		1912833-00		1.5109	FF-JK DUAL, POS FOR	r 1	E69
36	36		1912837-00		1.5123	ONE SHOT-DUAL, RETR	[G]	E20
37	37		1912697-00		15174	PF-D HEX W/CLEAR	1	E26
38	38		1912853-00		1.5175	TH-D QUAD	2	F42,E43
19	39		1912866-00		15295	SHIFT PEG., 48JT PT	11 R	871,854,864,F38,877,831,F
40	40		1912868-00		15299	SHIFT REG. 8-BTT U	1 2	E55,E61
41	41		1910155-00	DEC	7408	AUD CATE, POS. QUAD	I 1	£56
42	+2		1911521-00		7432	OR GATE-QUAD 211, 1	0 1	E19
13	43		1910153-00	DBC	74150	MUX 1 OF 16	1	E45
44	44		1910652-00		74161	COUNTER, SYNCHR, UP	1	E46
45	45		1910096-00	DFC	74191	COUNTER, SYNCHR. UP	/D 2	E53,E58
46	46		1910534-20		74504	TNVEPTER GATE-HEX	II 1	E34
47	47		1910950-00		74874	FE-D DUAL (-45 VER	sI 2	E15, E59
48	48		1911527-00		8097	BUFFER CATE-HEX 21	VP 3	E30,F70,E76
49	49		1909705-00	DEC	8881	MAND GATE-QUAD 21N	0 1	E.8
50			1912951-00	DM	8556	COUNTER, BIMARY, 48J	т 5	E17,E28,E36,E47,E48
51	51		1911579-00		R641	TRANSCRIVER, BUS, Q	11A 2	E1, E14
52	52		1912730-60	DC	003	INTERRUPT, 2 CIPCUI	т 1	E16
53	53		1912729-00	DC.	604	PROTOCOL, REG. SEVE	T 1	E12
54	54		1913040-00	DC	905	TPANSCEIVER 4BIT	4	E13,E21,E27,F33
55	55		1914035-00	PC	036	BJPOLAR, PUS ADDRES	s 3	E18,F75,E60
56	56	*.	1914038-00	DC	610	BIPOLAR, MEM ADRESS	, L 1	E7
57	57		1912810-00		US20	NAND GATE-DUAL 4TH	1	839
58	58		2113106-01			1K MOS PAN 250"S	4	E66,E72,E73,E78
53			23218A1-30	A1 +0	17		1	E41
60			9000024-71			LLED FLANGE, .121 PD	X 8	3
61	61		1301475-80	1.	1 K 1	/4% 5% CC	1	R 2

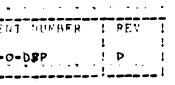
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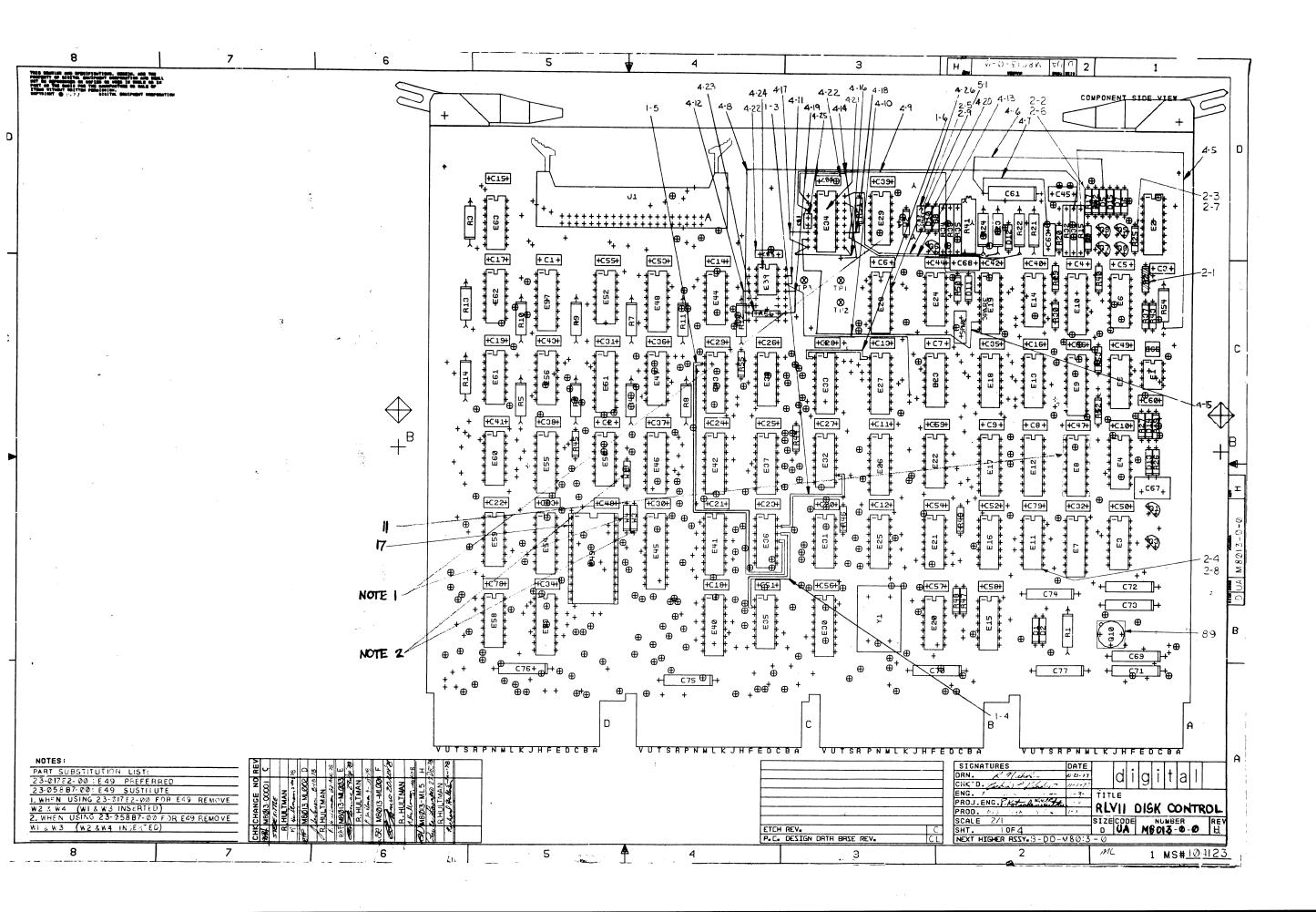
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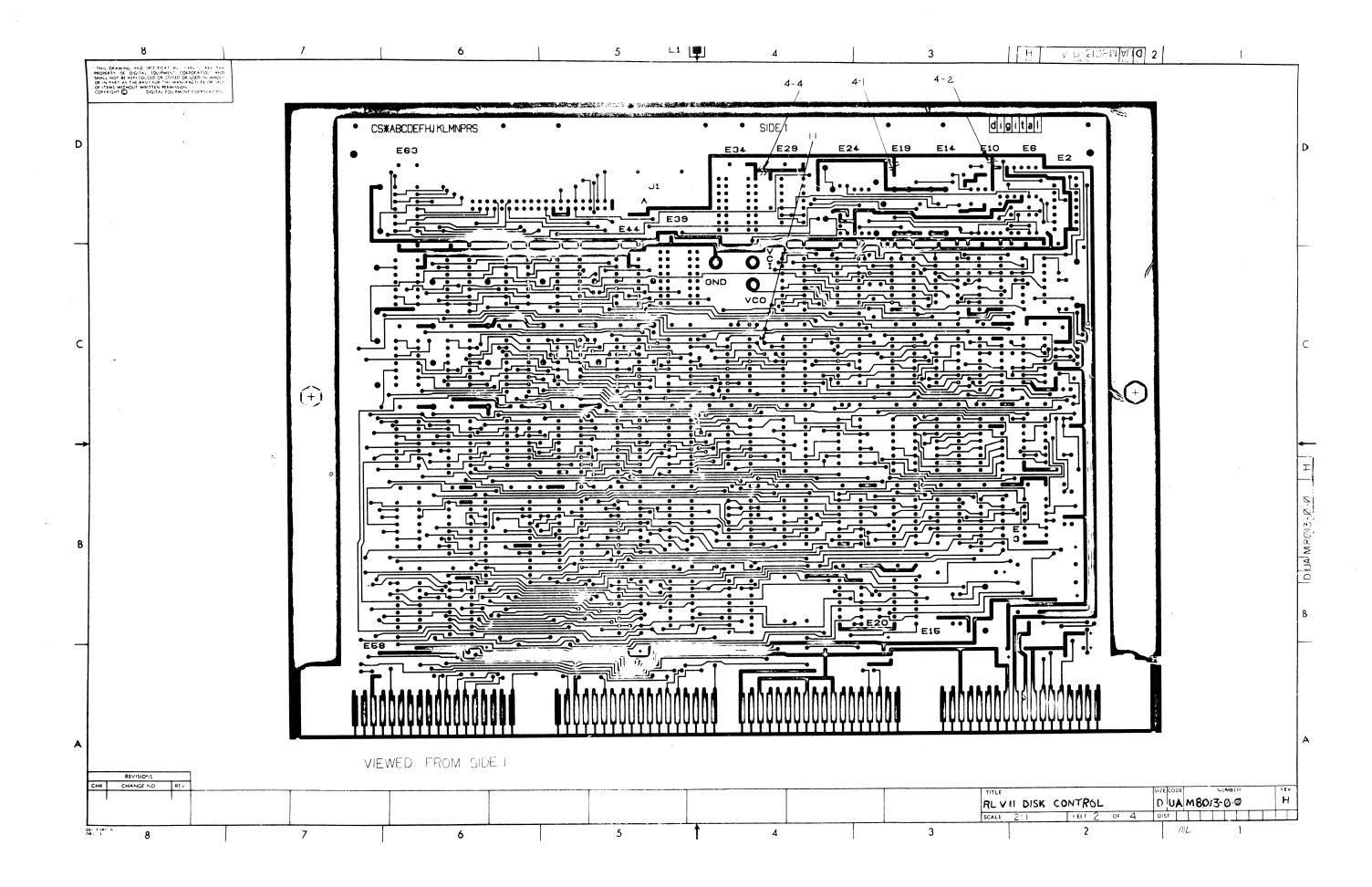
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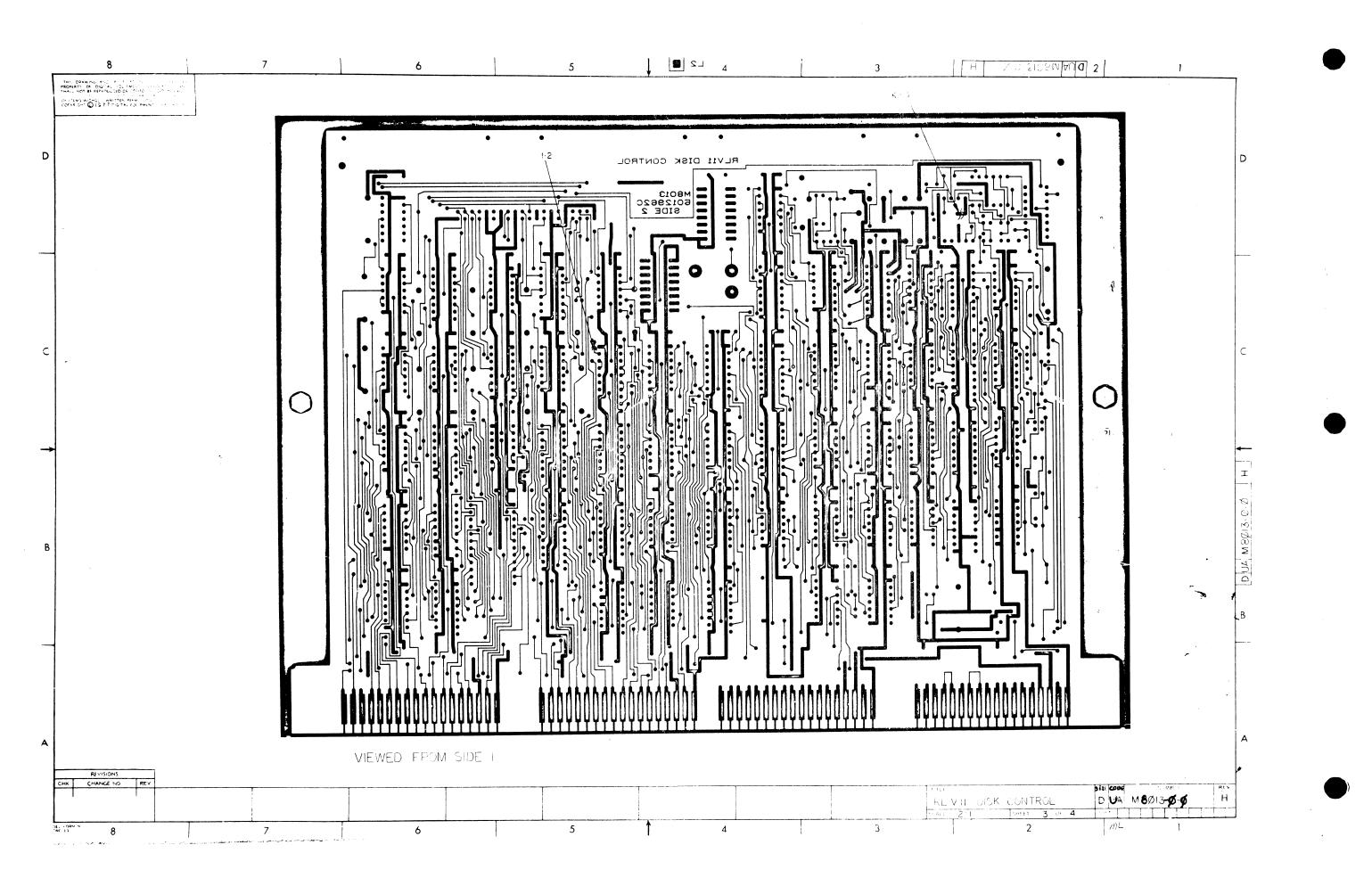








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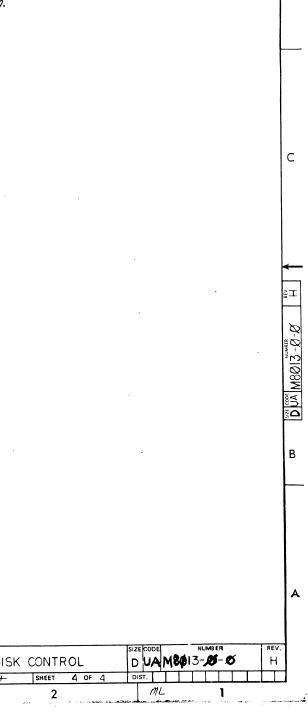


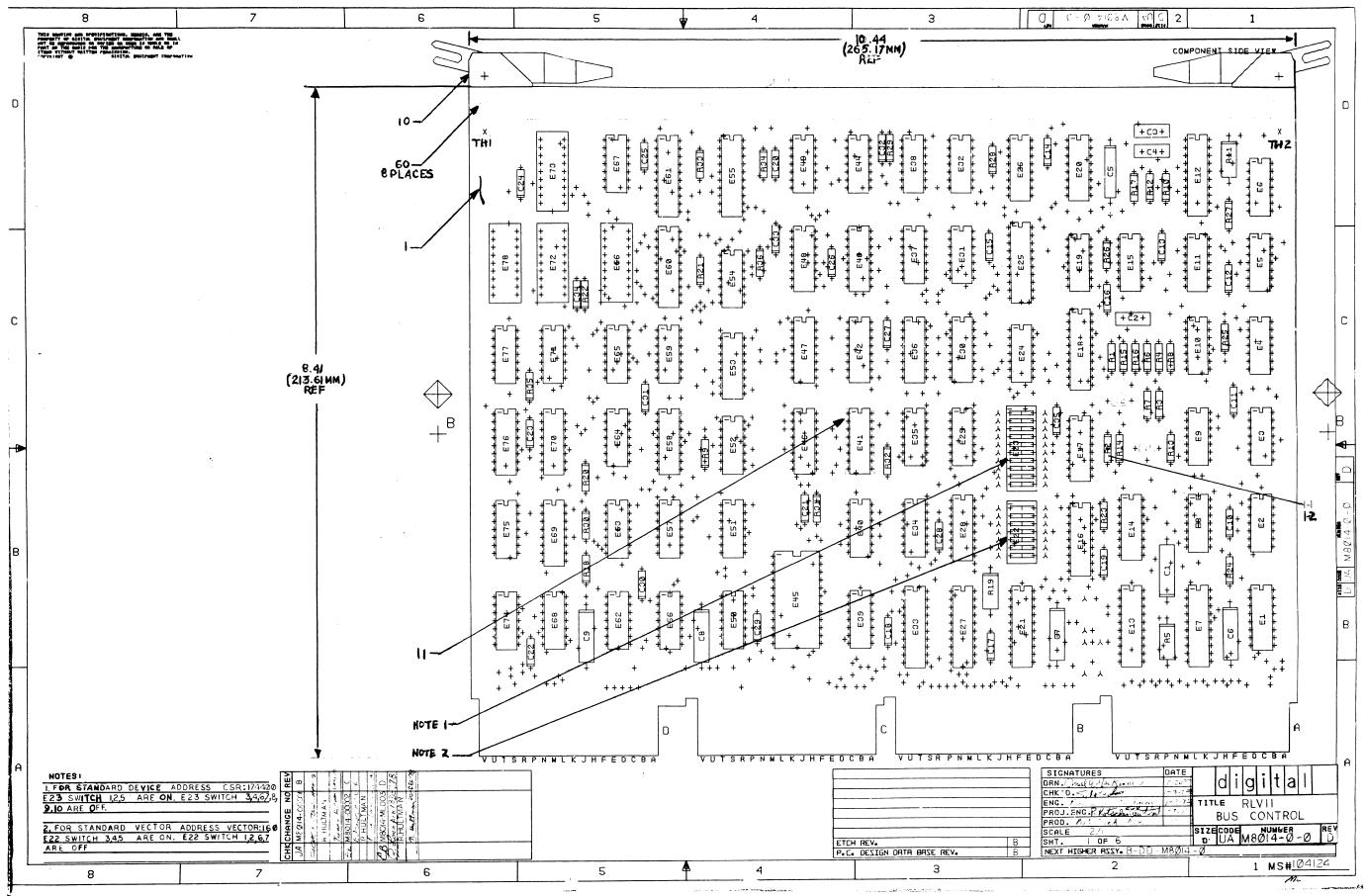
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	"This drawing and specifications, herein, are the property of distal equipment corroration, and synall not be reproduced or corred or used in whose or in part as the basis for the manufacture or sale of items without written remission. Corrent O_{14} , δ distal course correct corrections to the constraint corroration"							REWORK	1NSTRU #4(conT.)	CTIONS CON	JT.
	COPYRIGHT CIA 78 DIGITAL EQUIPMENT CORPORATION"]				4-19		CATION, PIN 13 STEP 4-23).			D(REF:
	REWORK INSTI	RUCTIONS:				4-20	BOTTOM COMPO.	OF R23 TO E34 NENT ADDS:(*	, PIN 16. ONLY THES	SE INSTRUCTION	NS SHOWNON UN
D	E.C.O.*1					* 4-21	E34 (P/N	1 9-11911-00) 7451 8 (PIN 10-12312-0	24.	I OC ATION [ANI!	EZA LOCATION
	ETCH CUTS SIDE 1: I-I. BETWEEN E33-I AND	PTH TO THE RIGHT OF	E33-16.			* 4-22 * 4-23	R56 (PIN	13-02955-00) Ai	E39 LOCA	TION, PINS 7 AN	D IO (REF:
	ETCH CUTS SIDE 2: I-2.BETWEEN E 43- 2 AND	PTH ABOVE AND TO THE	E LEFT OF EA	3-/		¥4-24		5TEP 4-8 AND 4-18 19-10645-00) AT		16.	:
	WIRE ADDS SIDE 1: 1-3. FROME32-9 TOE36-13					\$4.75	CBI(PIN	10-00010-00) AT L 10-00020-00) AT L	OCATION E34	4 PINS 4 AND S	TOPE BOTTOM.
	1.9. FROM E35-2 TO E36-12 1-5. FROM E43-2 TO E36-11					4.27	RZØIPIN	13-03064-00)			101 9 201 101
	1-6, FROM E 33-1 TO E27-1					4·28 4-29	° R42 ξ' R5 R31 (P/N	Ø(PIN 1300316-0 13-05125-00)	0)		
	E.C.O.#2					4.30	RIT(P/N	13-02858-00).			
	COMPONENT DELE						R33 (PIN	/3- <i> 4 8</i> 7-00). /3-/2923-00),			
	2-1. R2,330 (P/N, 2-2. R17, 180 (P/N,					4-33 4-34		13-05145-00). 13-13592-00).			·
	2-3. R25, 470-~ (P/N,	13-00316-00)				4-35	R54 (P/N	13-00Z85-00).			
	2-4. E11, 7437 (P/N, 191 2-5. E28, 745112 (P/N					4-36 4-37	CGI(P/N	(PIN 13-00249-00 10-00050-00)	<i>9</i>		
ا _	COMPONENT ADD	SIDEI				4-38	(45, CEB((P/N 10-12312-01)			
C	2-6 R17, 100- (P/) 4-39	OMPONEN P31(PIN	T DELETES: 13-03047-00)			
	2-7 R25, 220 (P, 2-8 EII, 74537 (P/N					4-40	RIT (PIN	13-00229-00)			
	2-9 E28, 74LS112 (1					4-42	R34(PIN	13-01322-00) 13-04862-00)			
	ECO#4					4-43 4-40	.R33(P/N R35(P/N	/ 13-0 4858-00) / 13-02645-00)			
	ETCH CUTS	T LEFT SIDE OF	CGI.SIDE	1.		4-45	R32 (P/N	13-10630-00)			
\rightarrow	4-2 CUT FTCH A	T LINE TO RIT A	ND RIS, AT	TOP OF RIT, SID	E1.	4-47	RZIERZ	13-00228-00) 3(P/N 13-00260	-00)		
		LINE FROM TO	P OF RIS	TO FEED THRU	LINDER	4-48 4-49	CGI (P/N) C452 CG	10-05784-00) B (PIN 10-10274-1	<i>0</i> 0)		
	R31,SIDE 2. 4-4 CUT_ETCH	AT E34-16 BETW	EEN E34	AND REI NEARES	T R51,	4-50	EI9(PIN	19-11911-00). 10-00011-00)	-		
	SIDE: 1.	n an chuire an				4-52	RAZERS	O (PIN 1300036	5-00)		
	WIRE ADDS: 4-5 BDTTOM OF	154 TO TOP OF R	215.					ECO #5			
	4-6 TOP OF D5	(ANODE) TO LE	FT SIDE	OF CGI(TWO N	IIRES, REF: RE	WORK 5-1		NT DELETE			
В	STEP 4-7). 47 LEFT SIDE C	FCGI TO TOP OF	= CG3 (REF	REWORK STEP 4	7-6).			- ,			
	48 TOP OF 831 TO	E39 LOCATION PI	N 7 (REF: RE	EWORK STEP 4-23,).	FN					
	R34 AND R33	N, PIN 3 TO E34 L THEN LEFT OVE	R RZ9 ANI	$0 \in 34.)$							
	AID FEED THRILT	TO THE LEFT OF E	=23, PING	TO E39 LOCATI	ION, PIN 14 (RC	DUTE EWORK			÷		2
	ST=P 4-11)	CT THEN LEFT T									
	4-11 E39 LOCATI	ON, PIN 14 TO E3	9 LOCATIO	N, PIN 15 (REF: K	REWORK STEP	: 4-10).					
	AND POTTOM OF	N, PIN 4 TO E39 RZZ TO E34, PIN 15	CROUTE IN	VIRE BELOW RAL	AND E29).						
	4.14 E34 PIN 2 7	O VCI AT FEED	THRU BEL	OW E34, PIN9 (RO	OUTE WIRE ABO	OVE E34					
	4-15 F34 PIN/7	TO FEED THRU). TO EI9 LOCATION	, PIN 7.								
	4-11. E34 PIN 8 7	0 E34, PIN 9 (TWO 0 E34, PIN 6 (REF) WIRES, RE	F: REWORK STEP STEP 4-16)	4-11).						
	4-18 E34, PIN 11 T	O BOTTOM OF R	51.	-							
Α											
	REVISIONS										
	CHK CHANGE NO. REV.					[<u></u>	[TITLE
											RL VII DISK
8	DEC FORM NO.	<u>_</u>	<u> </u>			5	^	4		3	SCALE -++-
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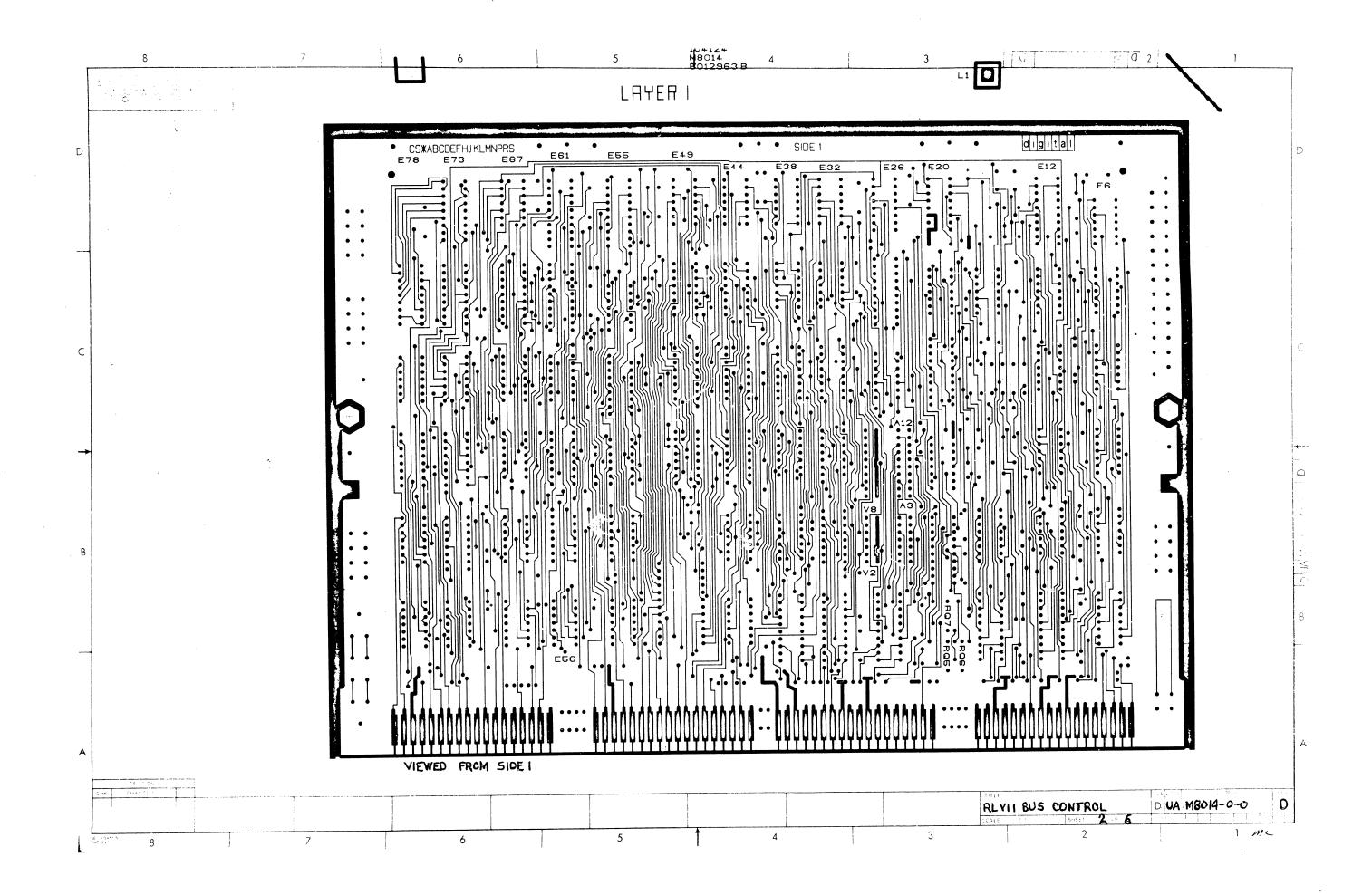
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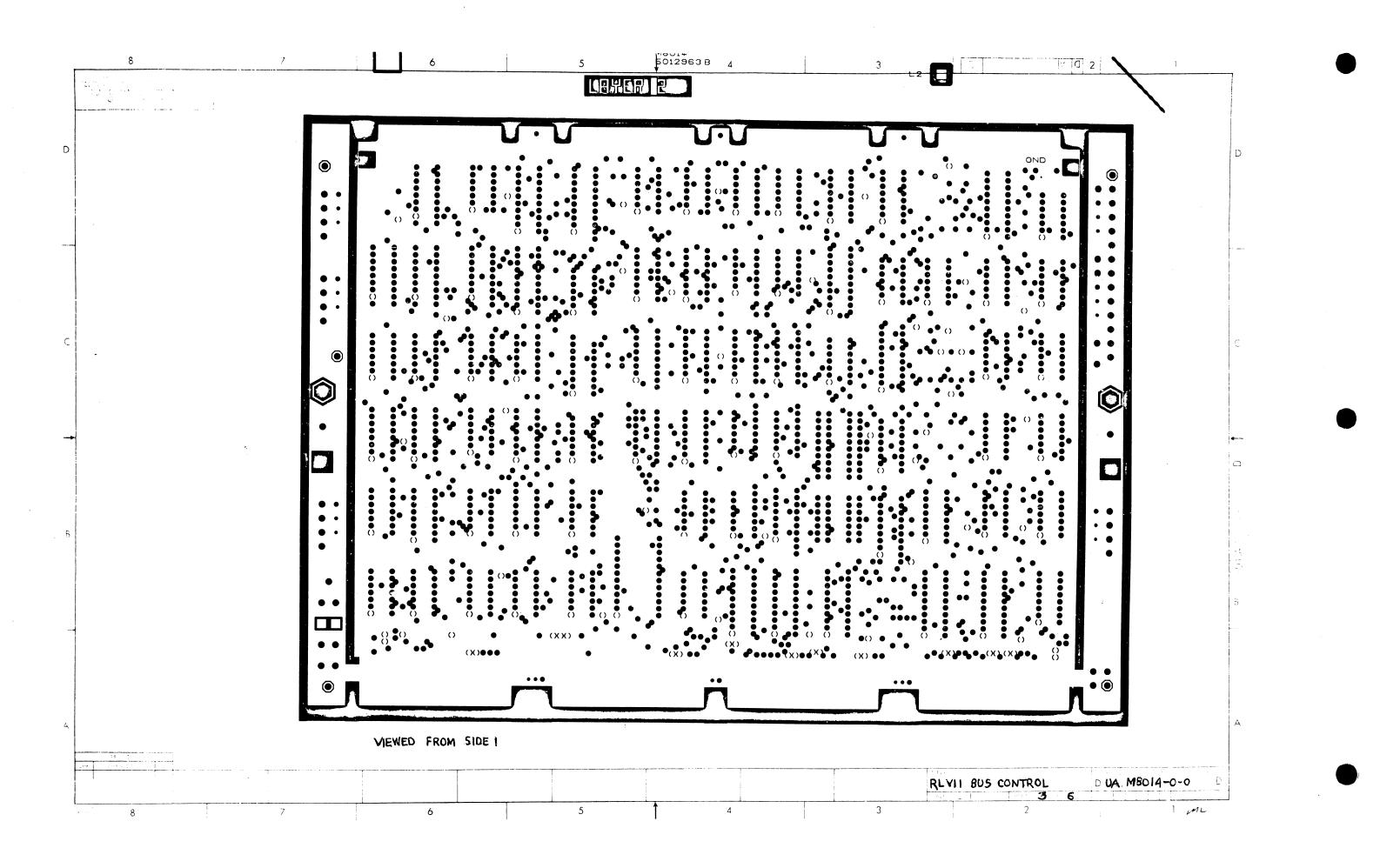
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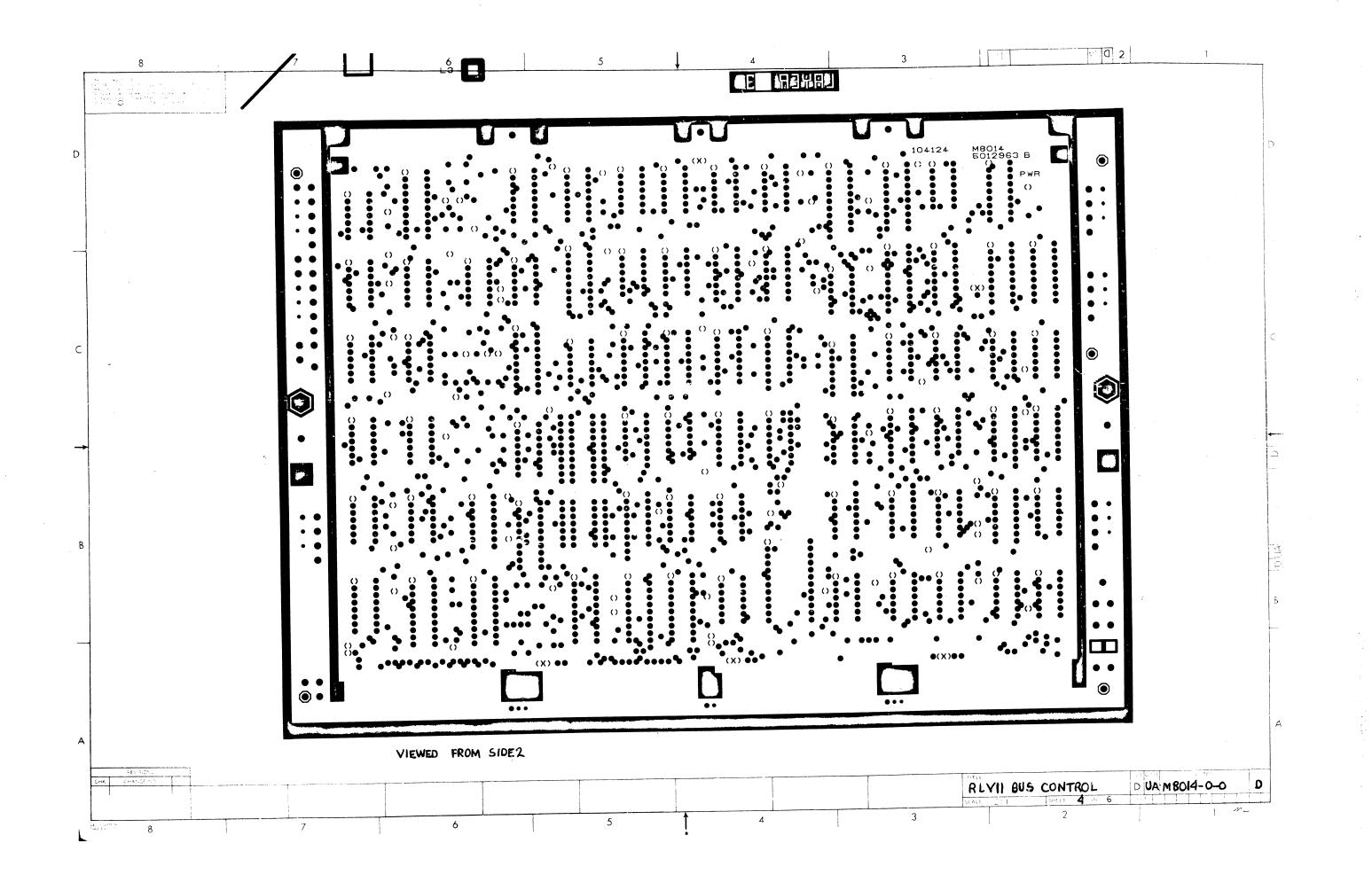
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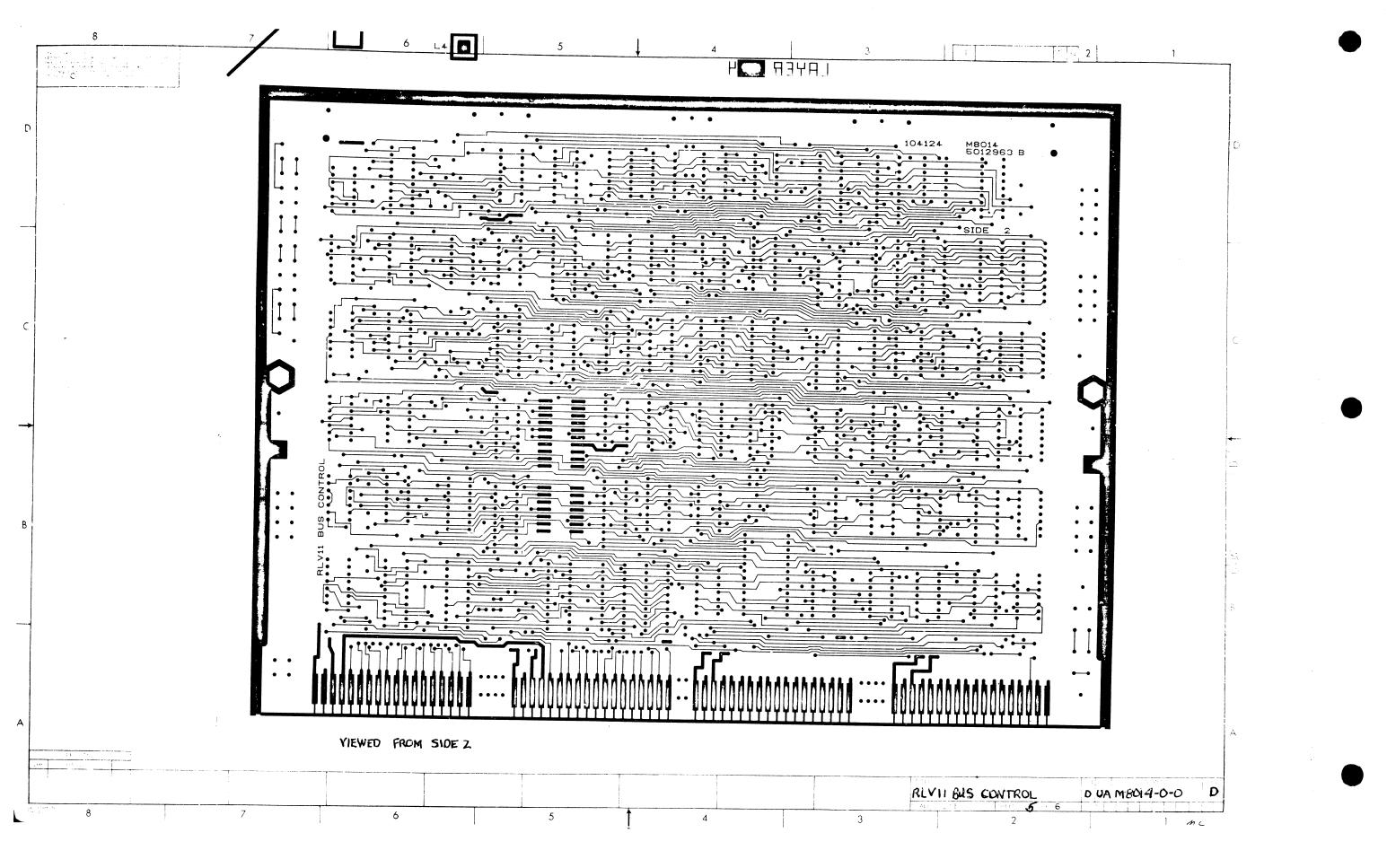




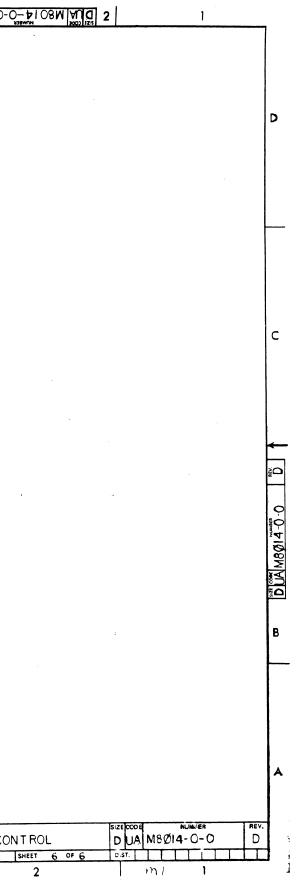






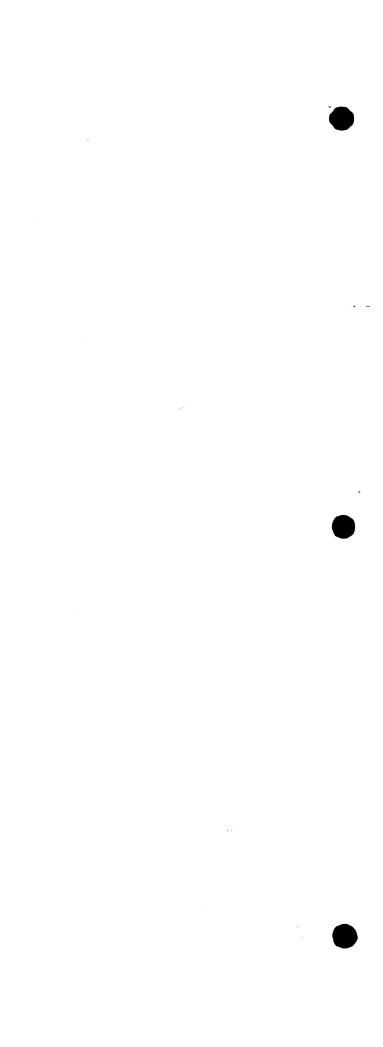


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PUBLIAL COURPORTION 1 ROM/PROM PATTERN SPEC	23017E2-0-0	

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2048 X 8 Rom/Prom Pattern Spec

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