



TABLE OF CONTENTS - CONTINUED FROM PAGE 1

DRAWING NUMBER	NO. OF SHEETS	DESCRIPTION
D-UA-5411036-0-0	(SHT 1)	POWER LINE MONITOR 15V REG
D-CS-5411086-0-1		POWER LINE MONITOR 15V REG (CS)
K-PL-5411036-0-DBP		POWER LINE MONITOR 15V REG (PL)
D-UA-H7440-0-0	(SHT 1)	H7440 POWER SUPPLY ASSY.
D-UA-5411793-0-0	(SHT 1)	+5V REGULATOR POWER SUPPLY
D-CS-5411793-0-1		+5V REGULATOR POWER SUPPLY (CS)
A-PL-5411793-0-0		+5V REGULATOR POWER SUPPLY (PL)
D-CS-H730-0-1		MASS BUS TERMINATOR
D-AD-7009938-0-0		TERMINATOR PACK ASSY.
D-UA-5413762-0-0		RM02/03 DUAL PORT SWITCH
D-CS-5413762-0-1		RM02/03 DUAL PORT SWITCH (CS)
K-PL-5413762-0-DBP		RM02/03 DUAL PORT SWITCH (PL)
D-AD-7017748-0-0		CABINET AND MBA ASSY. DIAL PORT
K-PL-7017748-0-DBP		CABINET AND MBA ASSY. DIAL PORT (PL)
D-AD-7017747-0-0		MBA CHASSIS ASSY. (UPPER)
K-PL-7017747-0-DBP		MBA CHASSIS ASSY. (UPPER) (PL)

TITLE	SIZE CODE	NUMBER	REV
RM05 DISK DRIVE	B TC	RM05-0-1	B
SHEET 2 OF 5			



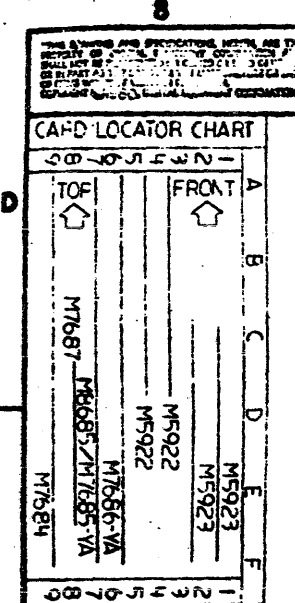
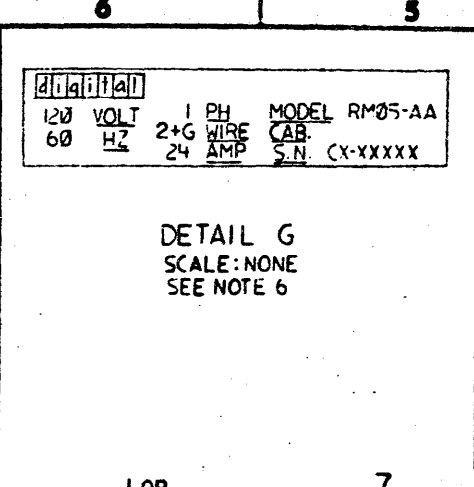
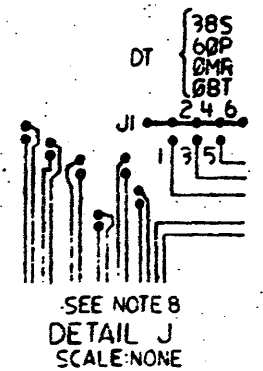
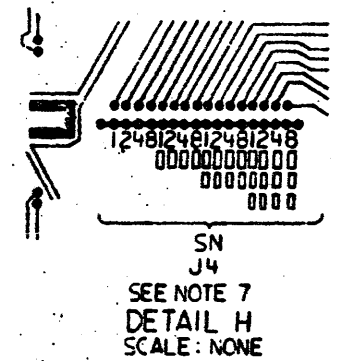
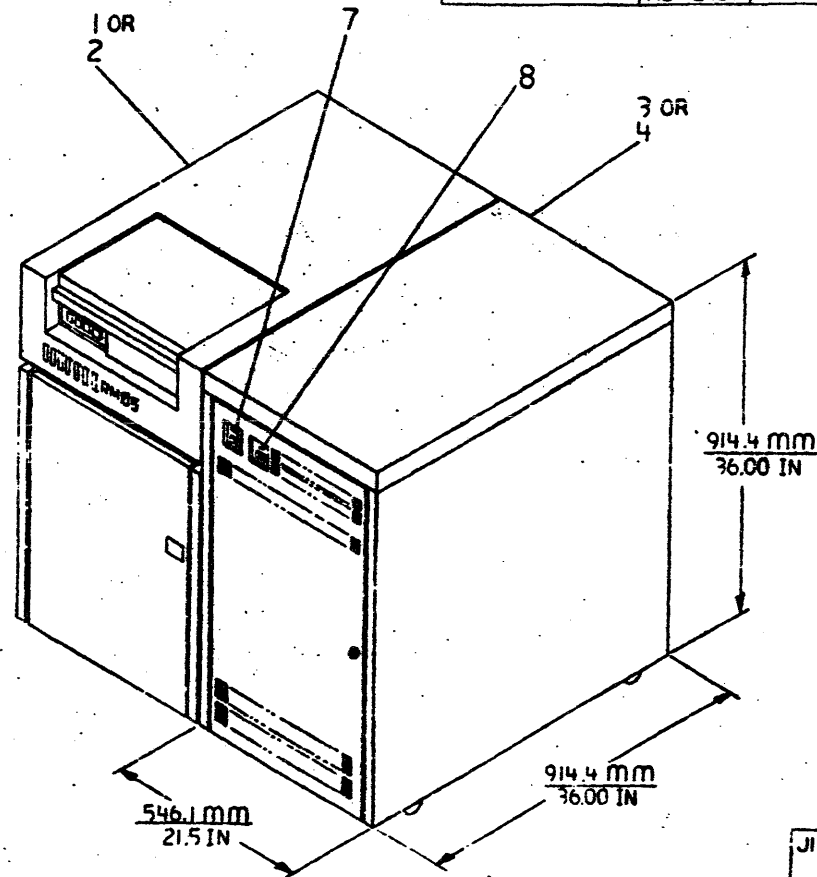


TABLE A			
X INDICATES INSTALLING A JUMPER			
S N BIT	JUMPER	RESULT	S N BIT
1	X		
2			2
4	X		
8	X		
10			10
20			20
40			40
60	X		
100			100
200	X		
400	X		
600	X		
1000			1000
2000			2000
4000	X		
6000	X		
			3172 TOTAL



LEGEND			
MODEL/OPTION NO	VOLTAGE	FREQUENCY	DESCRIPTION
RM05-AA	DRIVE 208V MBA 120V	60 HZ	256 MBYTE DRIVE W/ SINGLE PORT MBA AND CABINET
RM05-AB	DRIVE 220V MBA 240V	50 HZ	256 MBYTE DRIVE W/ SINGLE PORT MBA CABINET
RM05-AC	DRIVE 208V MBA 120V	60 HZ	256 MBYTE DRIVE W/ SINGLE PORT MBA (SECOND MBA)
RM05-AD	DRIVE 220V MBA 240V	50 HZ	256 MBYTE DRIVE W/ SINGLE PORT MBA (SECOND MBA)
RM05-BA	DRIVE 208V MBA 120V	60 HZ	256 MBYTE DRIVE W/ DUAL PORT MBA AND CABINET
RM05-BB	DRIVE 220V MBA 240V	50 HZ	256 MBYTE DRIVE W/ DUAL PORT MBA AND CABINET
RM05-BC	DRIVE 208V MBA 120V	60 HZ	256 MBYTE DRIVE W/ DUAL PORT MBA (SECOND MBA)
RM05-BD	DRIVE 220V MBA 240V	50 HZ	256 MBYTE DRIVE W/ DUAL PORT MBA (SECOND MBA)

- NOTES:
- REMOVE PART FROM MBA AND SET ASIDE. IT IS NOT USED IN THIS CONFIGURATION.
  - DELETED
  - DIAGRAM
  - DELETED
  - DELETED
  - MANUFACTURING ORGANIZATION TO COMPLETE LABEL INFORMATION ACCORDING TO DETAIL G. (DETAIL G SHOWS MODEL RM05-AA AS EXAMPLE ONLY).
  - THIRTY TWO WIREWRAP POSTS, IDENTIFIED AS J4 OF THE MASS BUS ADAPTER W/ DUAL PORT MBA (SECOND MBA). ALLOW THE SERIAL NO. TO BE WIRED INTO THE BACKPLANE. THE 16 POST PAIRS ARE IDENTIFIED AS 1, 2, 4, ... 2000, 4000, 8000 PROVIDING A BCD REPRESENTATION OF THE SERIAL NO.. THE LAST FOUR DIGITS OF THE DEC SERIAL NO. ARE TO BE USED AS THE WIRED SERIAL NO.. A JUMPER (124314-00) MUST BE INSTALLED FOR EACH LOGIC ZERO IN THE WIRED SERIAL NO.. FOR EXAMPLE IF THE SERIAL NO. IS 3172, IT IS WIRED PER DETAIL "H" AND TABLE "A".
  - THE MASS BUS ADAPTER MUST HAVE THE FOLLOWING JUMPERS INSTALLED ON J1 OF THE WIRED ASSY. SEE DETAIL "J" AND JUMPER CONFIGURATION.
  - DELETED
  - DELETED
  - TERMINATORS ARE ALWAYS INSTALLED IN J2 AND J6 OF THE MBA BACKPLANE ONLY ON THE LAST MBA IN A SERIES.
  - THIS ITEM SUPPLIED WITH CABINET AND MBA ASSY. D.P. (7017748-00) OR CABINET AND MBA ASSY. S.P. (7017619-00).
  - TO UPGRADE A SINGLE PORT MBA IN THE FIELD, ORDER 1 DUAL ACCESS KIT (C-AD-RM05-C-0) PER EACH MBA.
- CAUTION: OFF-SHEET PARTS LIST EXISTS. SEE K-PL- RM05-0-DBP (21187).

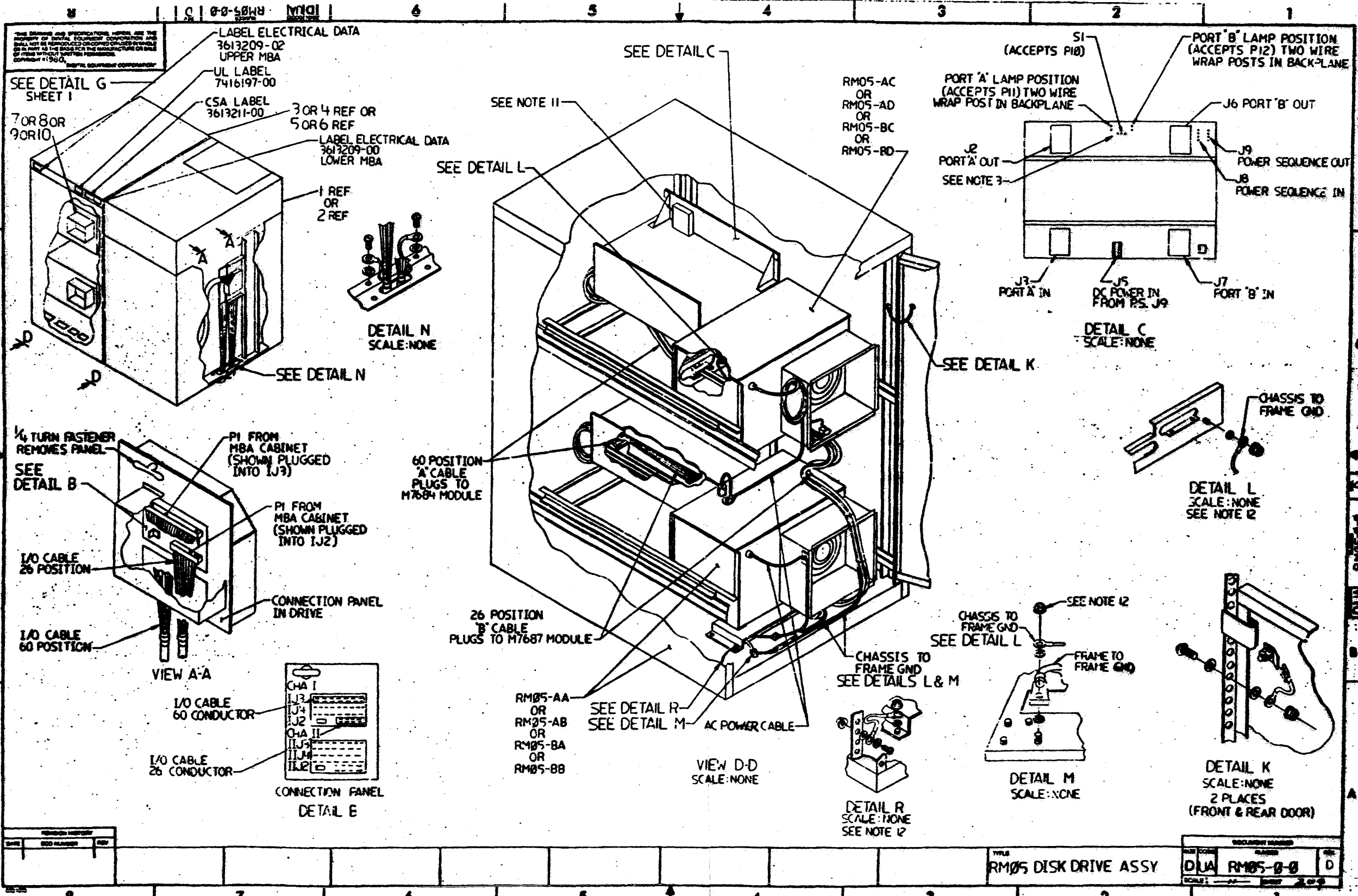


SEE NOTE 8

J1 JUMPER CONFIGURATION	
JUMPER	NUMBER
SINGLE PORT	5-6
DRIVE TYPE REG	20027
DUAL PORT	24027
DRIVE TYPE REG	

NO.	DESCRIPTION	QTY	UNIT
1	SELECTOR SWITCH	1	EA
2	CONTROL PANEL	1	EA
3	REAR PANEL	1	EA
4	FRONT PANEL	1	EA
5	DRIVE CHASSIS	1	EA
6	DRIVE CHASSIS	1	EA
7	DRIVE CHASSIS	1	EA
8	DRIVE CHASSIS	1	EA
9	DRIVE CHASSIS	1	EA
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25	DRIVE CHASSIS	1	EA
26	DRIVE CHASSIS	1	EA
27	DRIVE CHASSIS	1	EA
28	DRIVE CHASSIS	1	EA
29	DRIVE CHASSIS	1	EA
30	DRIVE CHASSIS	1	EA
31	DRIVE CHASSIS	1	EA
32	DRIVE CHASSIS	1	EA

QUANTITY & VARIATION	DESCRIPTION	DRWG. PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLE		
	CLASS OF SURFACE FINISH		
	CHECK ONE		
	FINISH		
	PREFERRED		
	QUANTITY		
	DESCRIPTION		
	DRWG. PART NO.		
	ITEM NO.		
	TITLE		
	SCALE		
	SHEET		

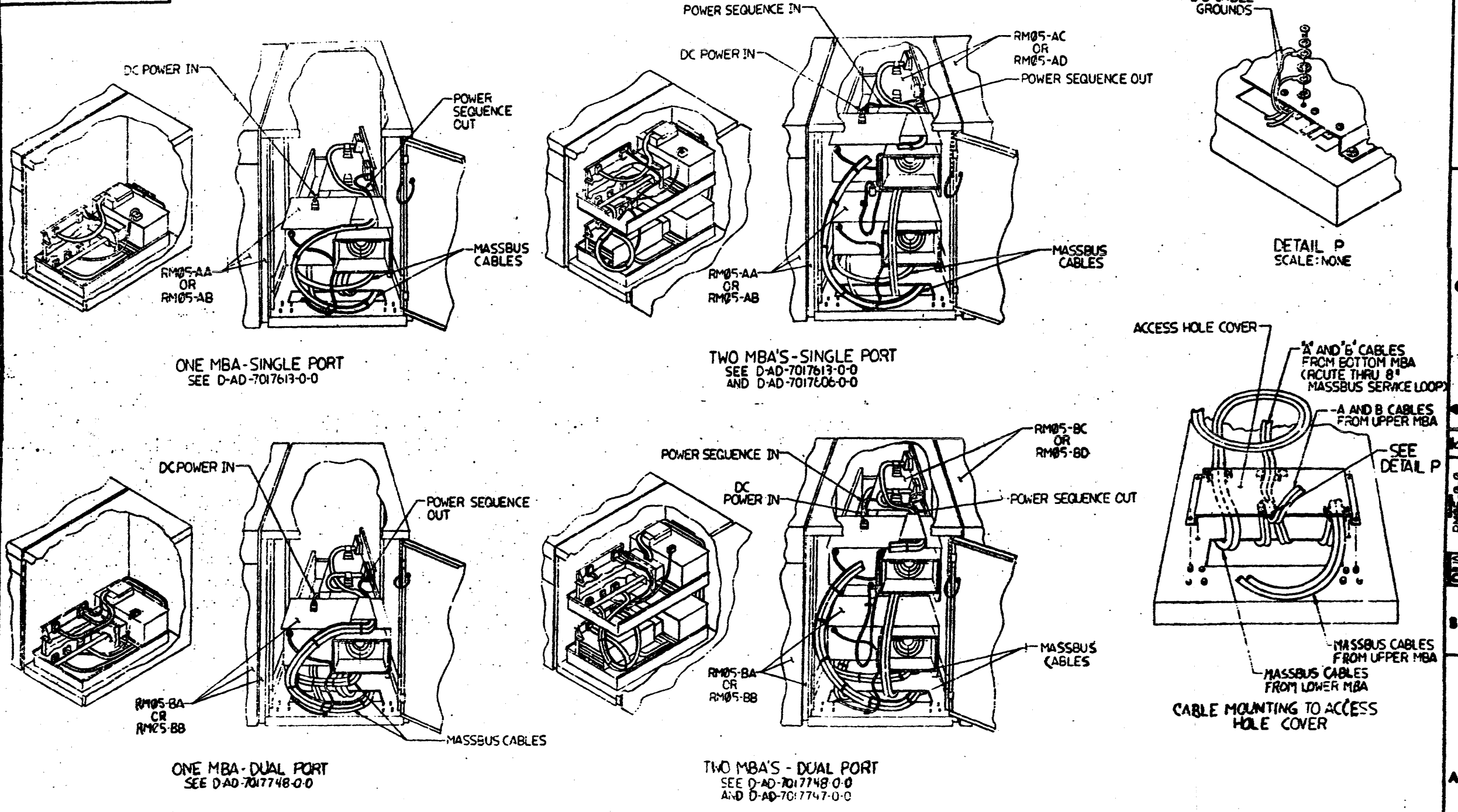


REV	DESCRIPTION	DATE

TITLE  
**RM05 DISK DRIVE ASSY**

REV	DESCRIPTION	DATE

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REV	REV NUMBER	DATE

TITLE	DOCUMENT NUMBER	SCALE	SHEET	TOTAL
RM05 DISK DRIVE ASSEMBLY	DJA RM05-0-0		3	4

8

0-0-50WB MD

6

5

4

3

2

1

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CABLE CHART RM05-AC/AD

CABLE CHART RM05-BC/BD

CABLE APPEARS ON DRAWING NO.	DESCRIPTION	FROM	TO	REMARKS
D-AD-7018322-0-0	JUMPER, POWER SEQUENCE			SEE NOTE 1
D-AD-7017605-0-0 D-AD-7017748-0-0	POWER SEQUENCE CABLE	J9 LOWER MBA	J8 UPPER MBA	
D-AD-7017747-0-0	MASS BUS CABLE, PORT 'A'	J2 LOWER MBA	J3 UPPER MBA	
D-AD-7018322-0-0	60 CONDUCTOR I/O CABLE	J1 ON M7684	IJ3 ON DISK DRIVE	
D-AD-7018322-0-0	26 CONDUCTOR I/O CABLE	J1 ON M7687	IJ2 ON DISK DRIVE	
D-AD-7018323-0-0	LINE CORD, AC INPUT	BACK OF POWER SUPPLY, UPPER MBA	J1 ON POWER SUPPLY, LOWER MBA	

CABLE APPEARS ON DRAWING NO.	DESCRIPTION	FROM	TO	REMARKS
D-AD-7018322-0-0	JUMPER, POWER SEQUENCE			SEE NOTE 1
D-AD-7017747-0-0 D-AD-7017748-0-0	POWER SEQUENCE CABLE	J9 LOWER MBA	J8 UPPER MBA	
D-AD-7017747-0-0	MASS BUS CABLE PORT 'A'	J2 LOWER MBA	J3 UPPER MBA	
D-AD-7018322-0-0	60 CONDUCTOR I/O CABLE	J1 ON M7684	IJ3 ON DISK DRIVE	
D-AD-7018322-0-0	26 CONDUCTOR I/O CABLE	J1 ON M7687	IJ2 ON DISK DRIVE	
D-AD-7018322-0-0	LINE CORD, AC INPUT	BACK OF POWER SUPPLY, UPPER MBA	J1 ON POWER SUPPLY, LOWER MBA	

CABLE CHART RM05 - BA/BB

CABLE CHART RM05-BC/BD

D-AD-7018322-0-0	JUMPER, POWER SEQUENCE		PLUGS INTO J8 ON LOWER MBA	
D-AD-7017748-0-0	MASS BUS CABLE, PORT 'A'	HOST SYSTEM OR PREVIOUS MBA	J3 LOWER MBA	
D-AD-7018322-0-0	60 CONDUCTOR I/O CABLE	J1 ON M7684	IJ3 ON DISK DRIVE	
D-AD-7018322-0-0	26 CONDUCTOR I/O CABLE	J1 ON M7687	IJ2 ON DISK DRIVE	
D-AD-7018322-0-0	LINE CORD, AC INPUT	BACK OF POWER SUPPLY, LOWER MBA	WALL SOCKET	
D-AD-7017748-0-0	MASS BUS CABLE, PORT 'B'	HOST SYSTEM	J7 LOWER MBA	
D-AD-7017605-0-0	DUAL PORT HARNESS ASSEMBLY	J1 SWITCH PANEL ASSEMBLY	P11 TO PORT 'A' LAMP POSTS P12 TO PORT 'B' LAMP POSTS P10 TO 3PIN MATE-IN-LOK, MOUNTED IN SWITCH POSITION	SEE NOTE 3

D-AD-7017747-0-0	MASS BUS CABLE, PORT 'B'	J6 LOWER MBA	J7 UPPER MBA	
D-AD-7017605-0-0	DUAL PORT HARNESS ASSY	J1 SWITCH PANEL ASSEMBLY	P11 TO PORT 'A' LAMP POSTS P12 TO PORT 'B' LAMP POSTS P10 TO 3PIN MATE-IN-LOK LOCATION IN SWITCH POSITION	SEE NOTE 3

CABLE CHART RM05 - AA/AB

D-AD-7018322-0-0	JUMPER, POWER SEQUENCE		PLUG INTO J8 ON LOWER MBA	
D-AD-7017619-0-0	MASS BUS CABLE PORT 'A'	HOST SYSTEM OR PREVIOUS MBA	J3 LOWER MBA	
D-AD-7018322-0-0	60 CONDUCTOR I/O CABLE	J1 ON M7684	IJ3 ON DISK DRIVE	
D-AD-7018322-0-0	26 CONDUCTOR I/O CABLE	J1 ON M7687	IJ2 ON DISK DRIVE	
D-AD-7018322-0-0	LINE CORD, AC INPUT	BACK OF POWER SUPPLY, LOWER MBA	WALL SOCKET	

DATE	ECO NUMBER	REV

RM05 DISK DRIVE ASSEMBLY

DUA RM05-0-0 D

8

7

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4

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2

1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION								
					AA	AB	AC	AD	BA	BB	BC	BD	
1	1	D-AD-7017618-0-0	7017618-00	REWORK DRAWING, RM05 DISK DRIVE	1	-	1	-	1	-	1	-	-
2	2	D-AD-7017618-0-1	7017618-01	REWORK DRAWING, RM05 DISK DRIVE	-	1	-	1	-	1	-	1	-
3	3	D-AD-7017613-0-0	7017613-00	CABINET & MBA ASSY S.P. (60 HZ)	1	-	-	-	-	-	-	-	-
4	4	D-AD-7017613-0-0	7017613-01	CABINET & MBA ASSY S. P. (50 HZ)	-	1	-	-	-	-	-	-	-
5	5		7017748-00	CABINET & MBA ASSY D. P. (60HZ)	-	-	-	-	1	-	-	-	-
6	6		7017748-01	CABINET & MBA ASSY D. P. (50 HZ)	-	-	-	-	-	1	-	-	-
7	7		7017747-00	MBA ASSY, DUAL PORT (60 HZ)	-	-	-	-	-	-	1	-	-
8	8		7017747-01	MBA ASSY, DUAL PORT (50 HZ)	-	-	-	-	-	-	-	1	-
9	9		7017606-00	MBA ASSY, SINGLE PORT (60HZ)	-	-	1	-	-	-	-	-	-
10	10		7017606-01	MBA ASSY, SINGLE PORT (50HZ)	-	-	-	1	-	-	-	-	-
11	11		3017107-00	DISK PACK RM05P DATA	1	1	1	1	1	1	1	1	1

REVISION HISTORY		BASIC PART NO: RM05		DRN: M. ENGLE		DATE: 05-FEB-80		DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	B. NICHOLE	DATE:	05-FEB-80	TITLE PARTS LIST			
	INITIAL	*	SECTION, VARIATION INDEX	CHK'D:	B. NICHOLE <td>DATE:</td> <td>05-FEB-80 <td colspan="4">RM05 DISK DRIVE ASSEMBLY</td> </td>	DATE:	05-FEB-80 <td colspan="4">RM05 DISK DRIVE ASSEMBLY</td>	RM05 DISK DRIVE ASSEMBLY			
ME	RM05-CX002	A	[A] AA,AB,AC,AD,BA,BB,	DES.ENG.:	A. CLARK <td>DATE:</td> <td>05-FEB-80 <td colspan="4"></td> </td>	DATE:	05-FEB-80 <td colspan="4"></td>				
ME	RM05-CX003	B	BC,BD	RESP.ENG.:	B. MONTERO <td>DATE:</td> <td>05-FEB-80 <td colspan="4">DOCUMENT NUMBER</td> </td>	DATE:	05-FEB-80 <td colspan="4">DOCUMENT NUMBER</td>	DOCUMENT NUMBER			
ME	RM05-CX004	C	[B]	MFG.ENG.:	B. BASSETT <td>DATE:</td> <td>05-FEB-80</td> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td>	DATE:	05-FEB-80	SIZE	CODE	NUMBER	REV
MH	RM05-CX05A	D	[C]	ASSEMBLY NUMBER:	D-UA-RM05-0-0 <td>TOP DOCUMENT NUMBER:</td> <td>B-DD-RM05-0</td> <td>K</td> <td>PL</td> <td>RM05-0-DBP</td> <td>D</td>	TOP DOCUMENT NUMBER:	B-DD-RM05-0	K	PL	RM05-0-DBP	D
			[D]	FILE NAME:	Z1187D.PLS	EDIT #:	35				
			[E]								
			[F]								

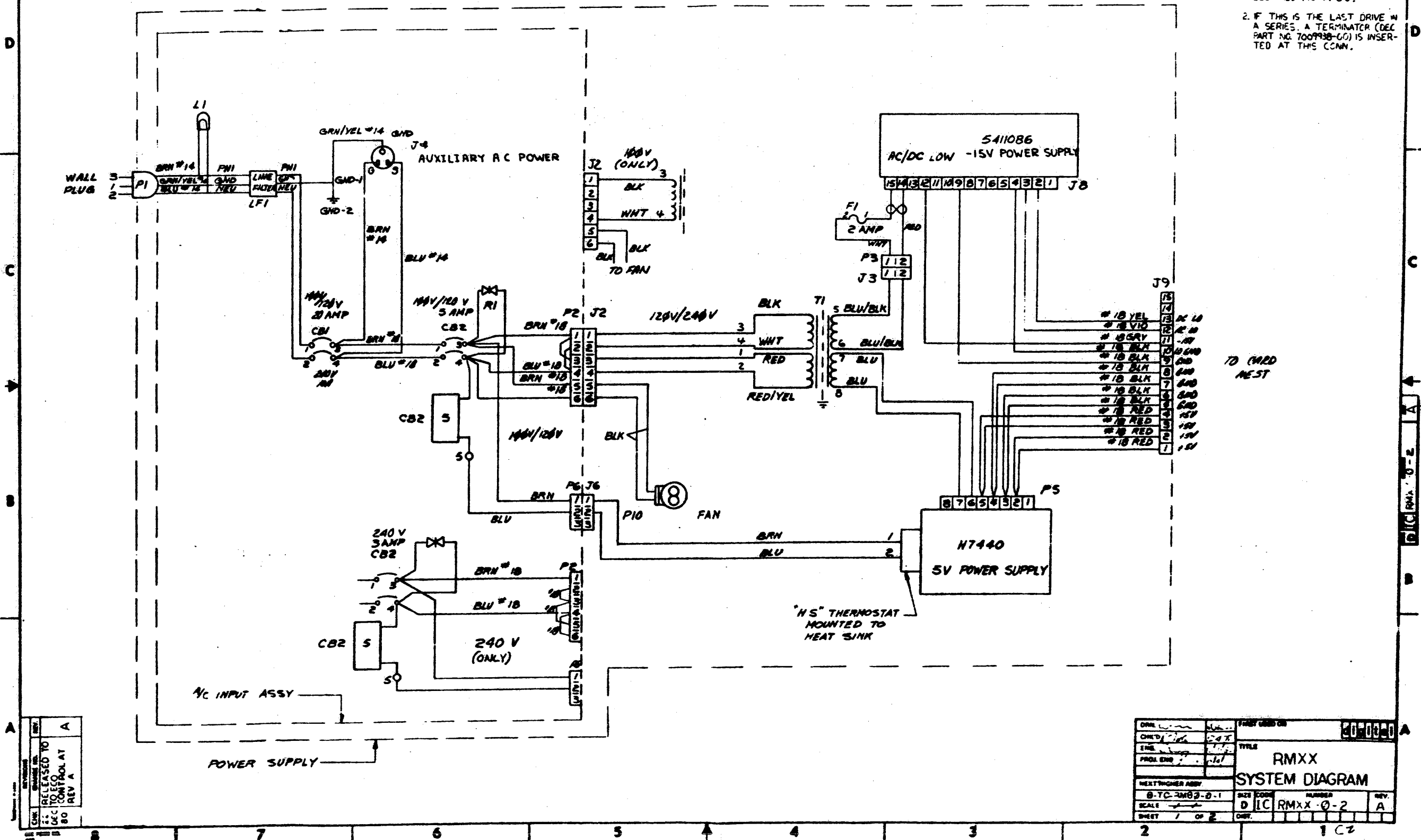
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RDM  
13487  
80  
W.C.M.  
15480  
80



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- NOTES:
1. IF THIS IS THE FIRST DRIVE IN A SERIES, INSTALL JUMPER DEC #7004490 IN J8.
  2. IF THIS IS THE LAST DRIVE IN A SERIES, A TERMINATOR (DEC PART NO. 7004490-00) IS INSERTED AT THIS CONN.



TO CARD  
NEST

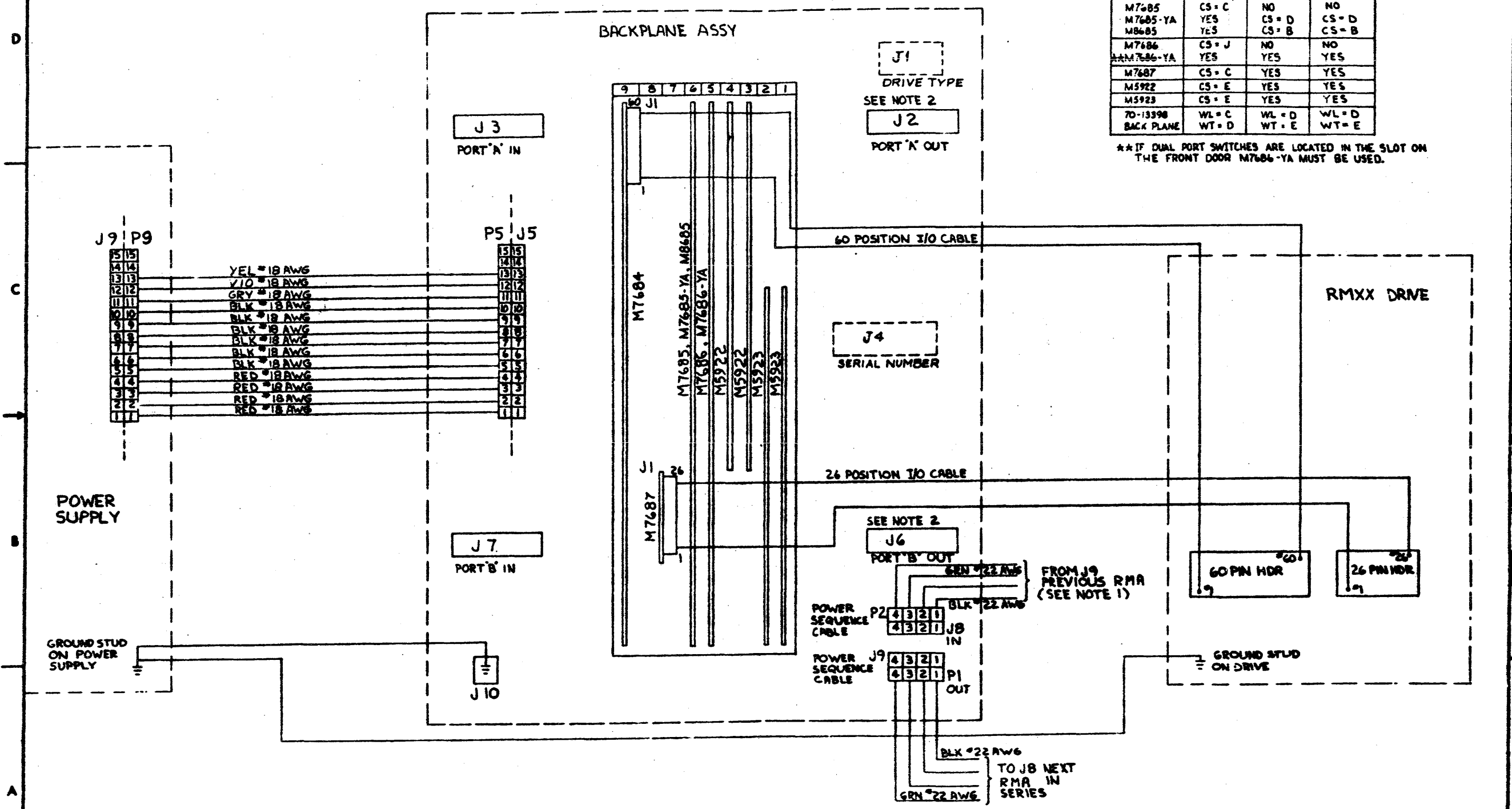
RELEASING TO  
SEC. CONTROL AT  
REV. A

DATE	2-4-7	FILED	20-0000
CHK'D		TITLE	RMXX
ENG.			SYSTEM DIAGRAM
PROJ. ENG.			
NEXT DRAWING ASSY		SIZE CODE	NUMBER
D-TC-2003-0-1		DIC RMXX-0-2	REV. A
SCALE		DRY.	
SHEET	1 OF 2		

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MODULE	RM02/03	RM00	RM05
M7684	CS = R	YES	YES
M7685	CS = C	NO	NO
M7685-YA	YES	CS = D	CS = D
M8685	YES	CS = B	CS = B
M7686	CS = J	NO	NO
M7686-YA	YES	YES	YES
M7687	CS = C	YES	YES
M5922	CS = E	YES	YES
M5923	CS = E	YES	YES
70-13398	WL = C	WL = D	WL = D
BACK PLANE	WT = D	WT = E	WT = E

\*\* IF DUAL PORT SWITCHES ARE LOCATED IN THE SLOT ON THE FRONT DOOR M7686-YA MUST BE USED.

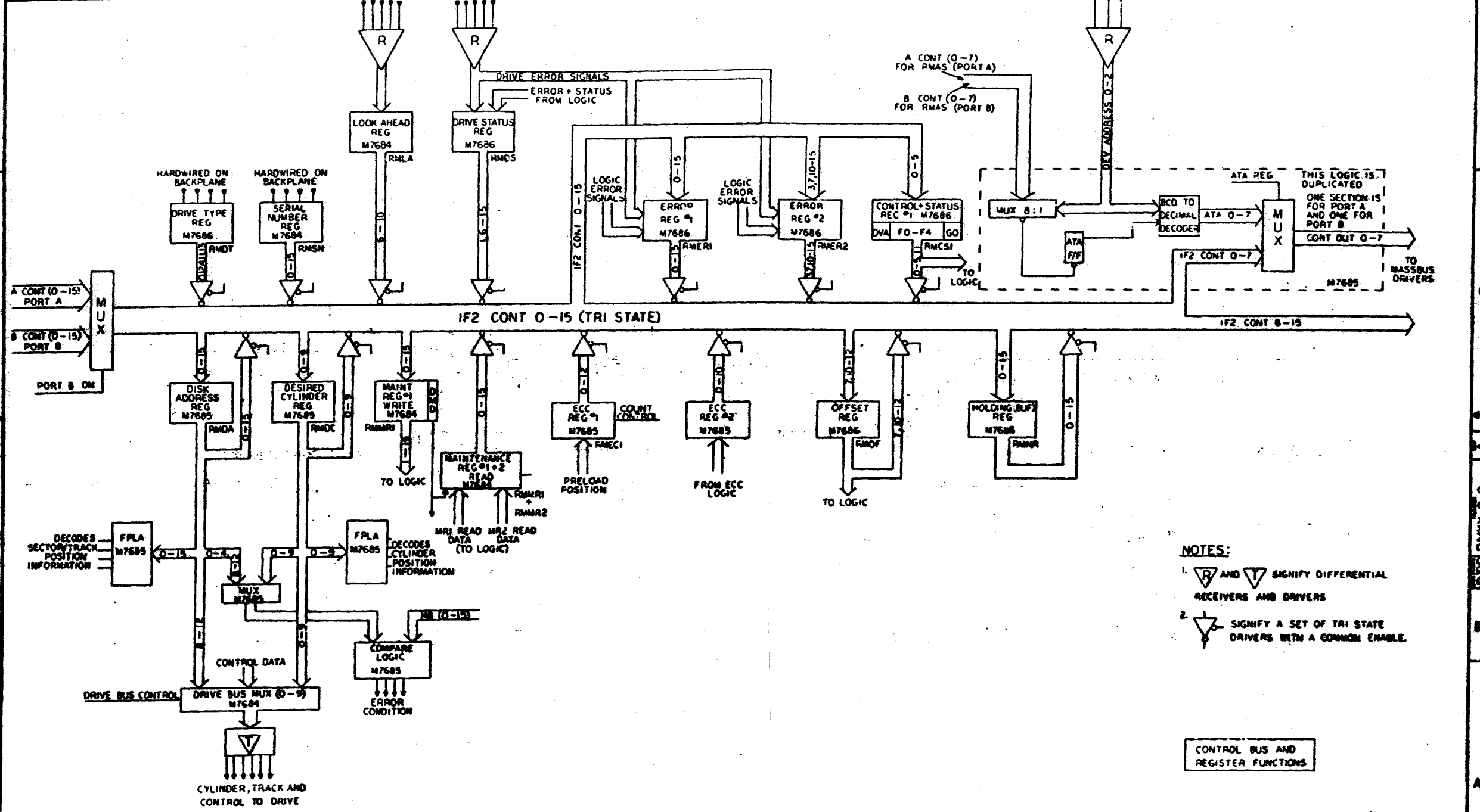


REV	CHG	NO	REV





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- NOTES:**
1.  $\nabla$  AND  $\nabla$  SIGNIFY DIFFERENTIAL RECEIVERS AND DRIVERS
  2.  $\nabla$  SIGNIFY A SET OF TRI STATE DRIVERS WITH A COMMON ENABLE.

CONTROL BUS AND REGISTER FUNCTIONS

REVISIONS		
CHG	CHANGE NO.	REV.

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2 DTD RMXX-0-0 A

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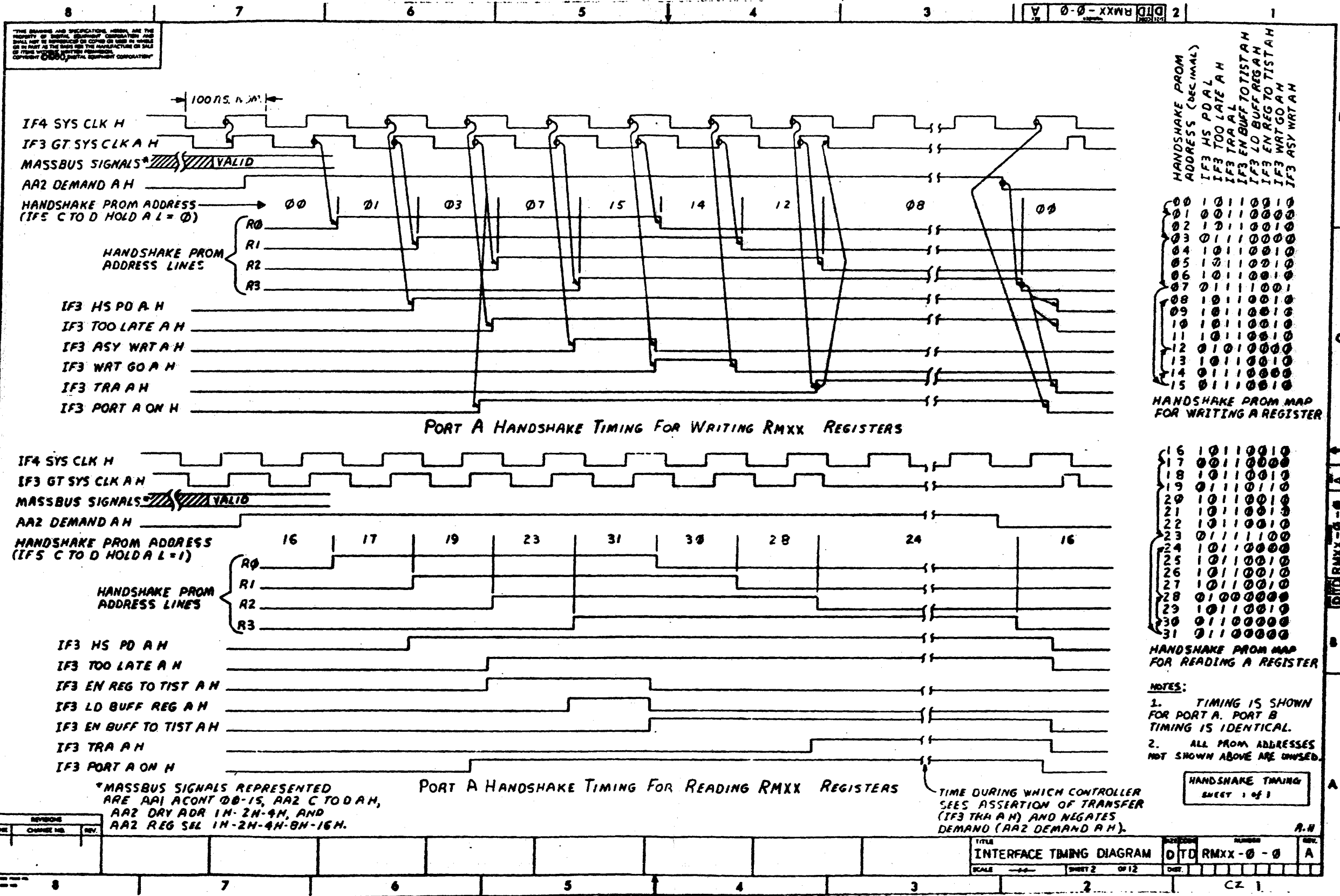
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1	INDEX
2	HANDSHAKE TIMING
3	TIMING FOR ALL COMMANDS (COMMAND SEQUENCER), (SH 1 OF 3)
4	TIMING FOR ALL COMMANDS (COMMAND SEQUENCER), (SH 2 OF 3)
5	TIMING FOR ALL COMMANDS (COMMAND SEQUENCER/DATA), (SH 3 OF 3)
6	START OF DATA COMMAND ON SECTOR X+1 FOLLOWING DATA COMMAND ON SECTOR X
7	BASIC DATA TIMING (CLOCK GENERATION)
8	DATA TIMING FOR WRITE HEADER AND DATA (FORMAT)
9	READ HEADER AND DATA AND READ DATA TIMING
10	TIMING FOR WRITE DATA OPERATION
11	TIMING FOR ECC DURING READ
12	TIMING FOR ECC CORRECTION

INDEX

REV. CONTROL A  
 BY REV A

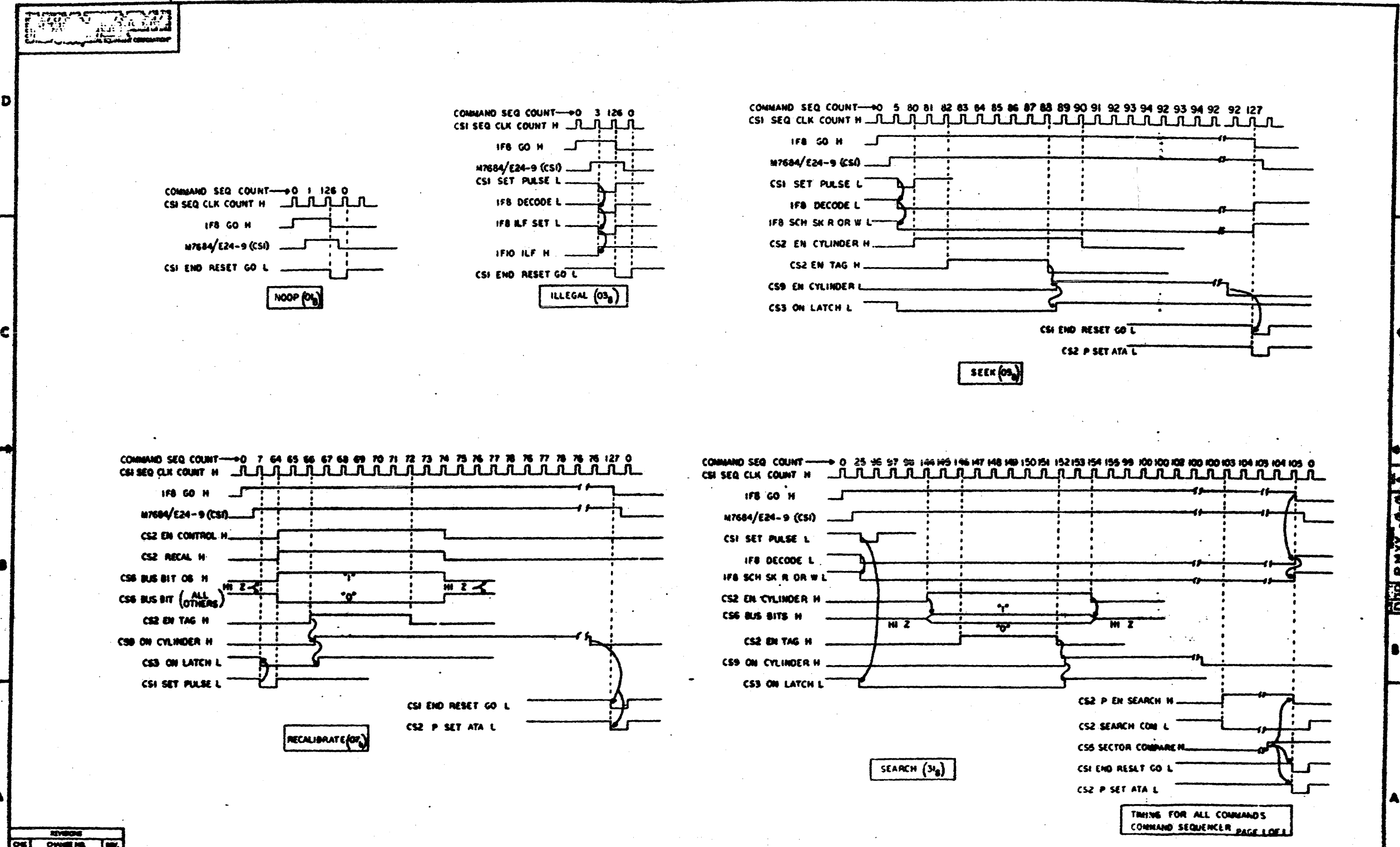
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ENG'D	ables	TITLE	TIMING DIAGRAM
PROJ. ENG.			
NEXT NUMBER ADR.			
3-TC-5439-3--	REV. CODE	NUMBER	REV.
SCALE	0 TD	RMXX-0-0	A
SHEET 1	OF 12	DATE	

CZ 1



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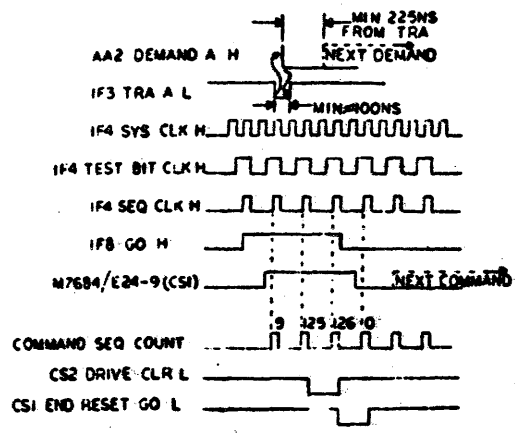
REVISED	DATE	BY	CHKD	DATE	BY	TITLE	NUMBER	REV.
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						SCALE	SHEET 2	OF 12
						CZ 1		



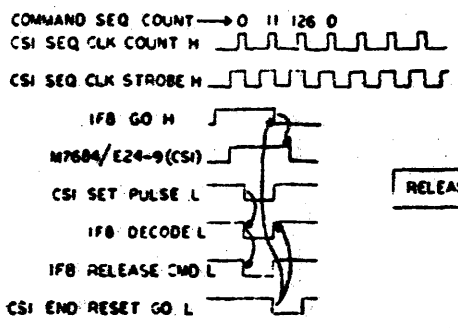
REVISIONS		
ONE	CHANGE NO.	REV.



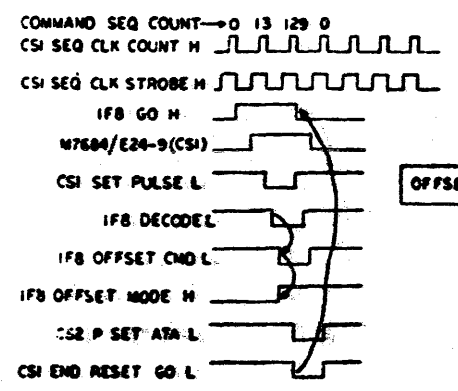
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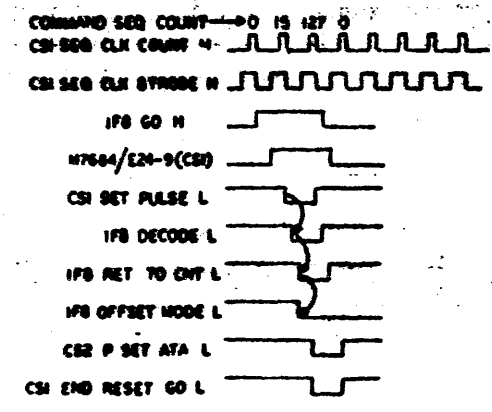
DRIVE CLEAR (12)



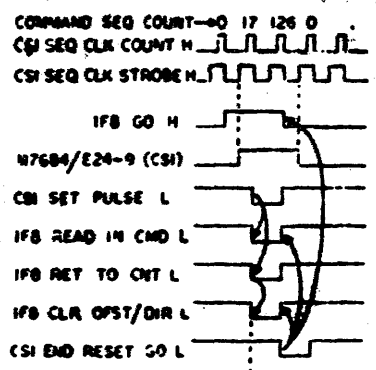
RELEASE (13)



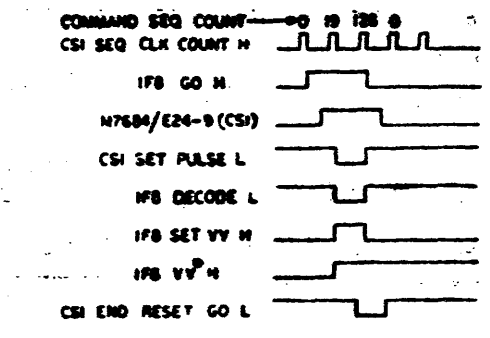
OFFSET (15)



RETURN TO CENTERLINE (17)



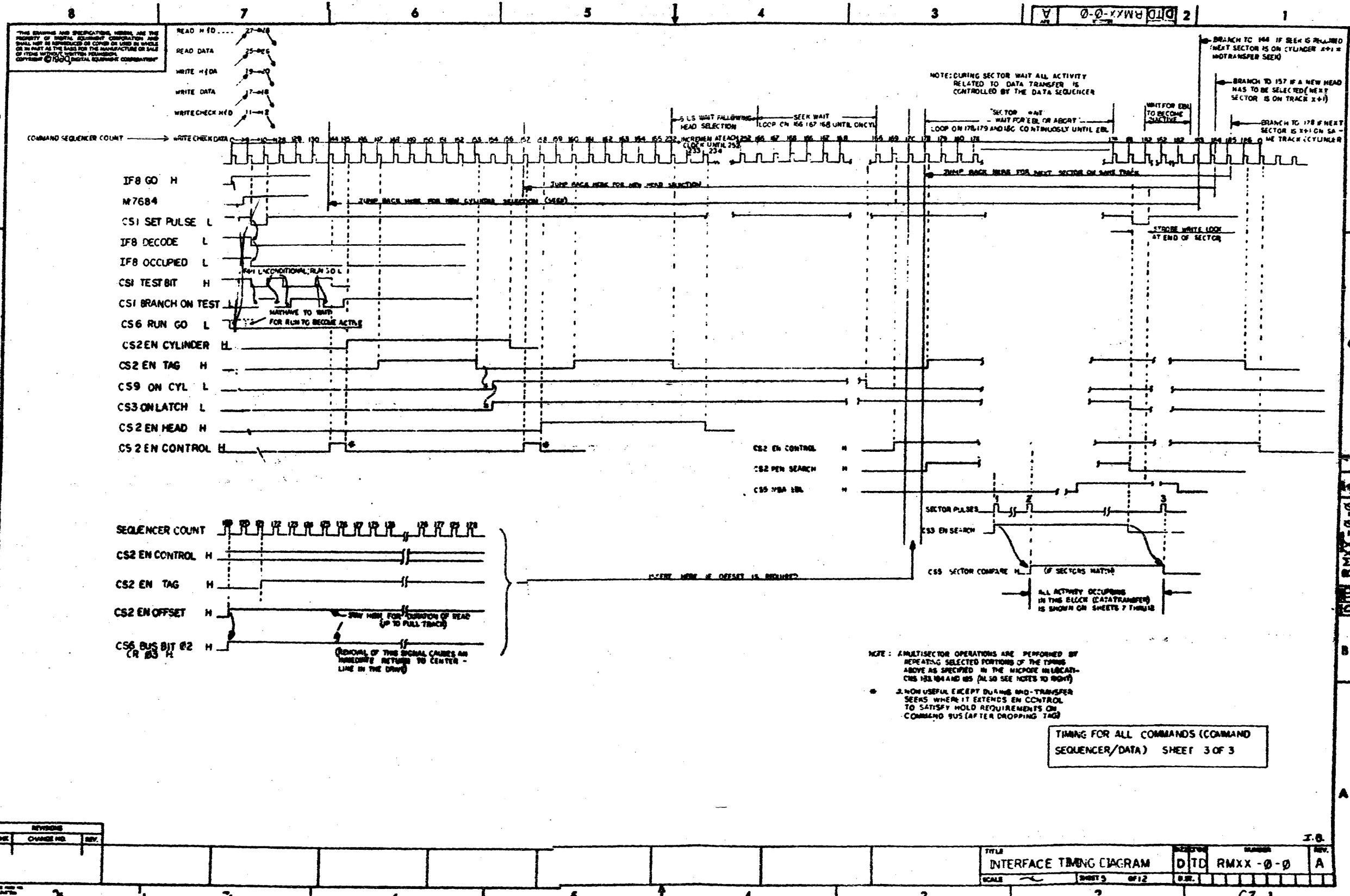
READ IN PRESET (21)



PACK ACKNOWLEDGE (23)

TIMING FOR ALL COMMANDS  
COMMAND SEQUENCER PAGE 1 OF 1

REV	CHG	CHG NO	REV

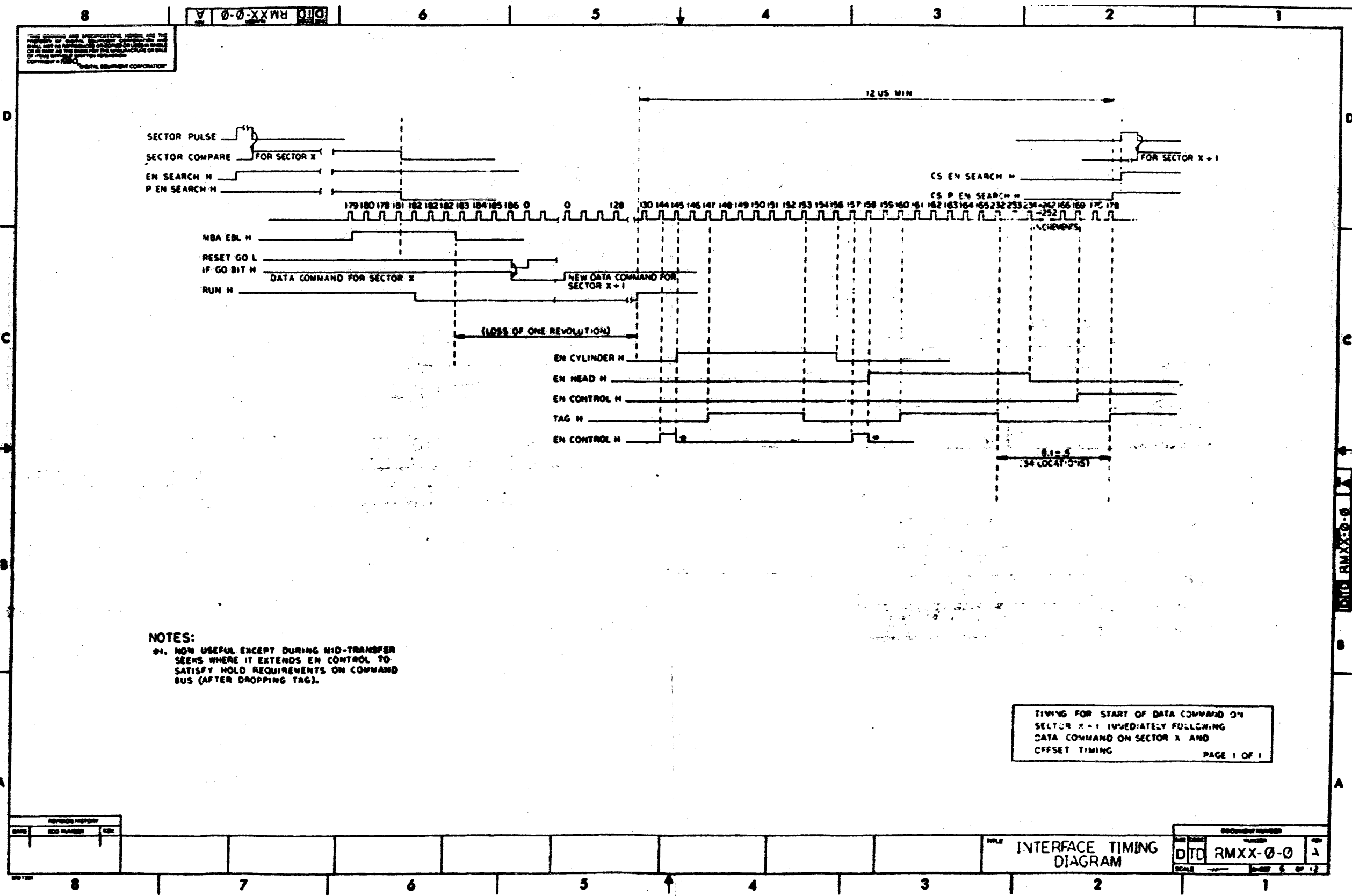


5 of 12

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	INTERFACE TIMING DIAGRAM	DESIGN	DTD	NUMBER	RMXX-0-0	REV.	A
SCALE		SHEET	3	OF	12	DWG.	

J.B.



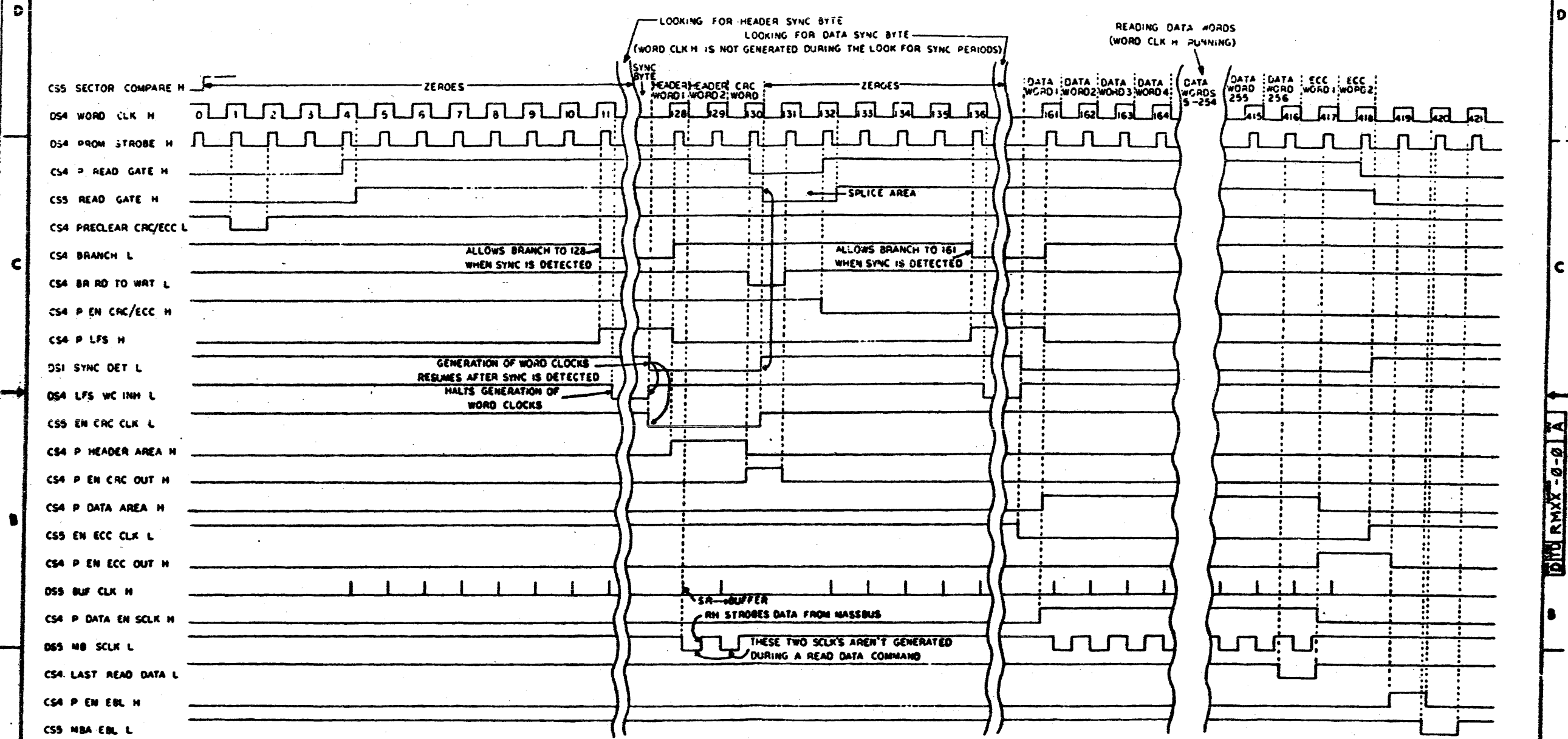
NOTES:  
 01. NON USEFUL EXCEPT DURING MID-TRANSFER SEENS WHERE IT EXTENDS EN CONTROL TO SATISFY HOLD REQUIREMENTS ON COMMAND BUS (AFTER DROPPING TAG).

TIMING FOR START OF DATA COMMAND ON SECTOR X+1 IMMEDIATELY FOLLOWING DATA COMMAND ON SECTOR X AND OFFSET TIMING  
 PAGE 1 OF 1

REV	DATE	BY

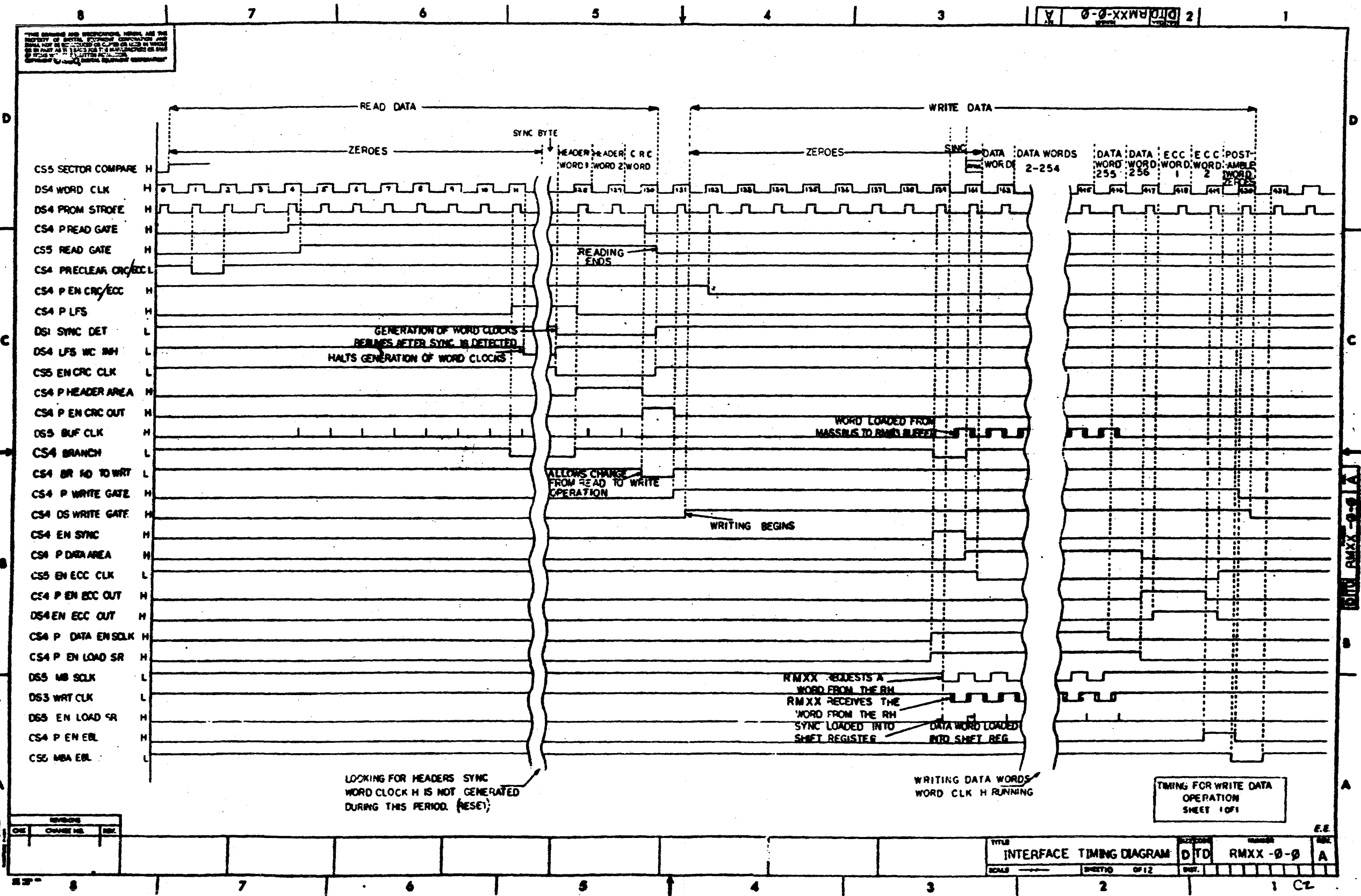
TITLE		DOCUMENT NUMBER	
INTERFACE TIMING DIAGRAM		DIT RMXX-0-0 A	
SCALE		SHEET 6 OF 12	

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READ HEADER AND DATA AND READ DATA TIMING  
PAGE 1 OF 1

REVISIONS		
ONE	CHANGE NO.	REV.



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DTD RMXX-0-0 2

REV	DATE	BY

TITLE: INTERFACE TIMING DIAGRAM  
 DTD RMXX-0-0 A  
 SHEETS: 12 OF 12  
 SHEET: 1  
 DWT: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

E.E.

TIMING FOR WRITE DATA OPERATION  
 SHEET 1 OF 1

LOOKING FOR HEADERS SYNC  
 WORD CLOCK H IS NOT GENERATED  
 DURING THIS PERIOD. (RESET)

WRITING DATA WORDS  
 WORD CLK H RUNNING

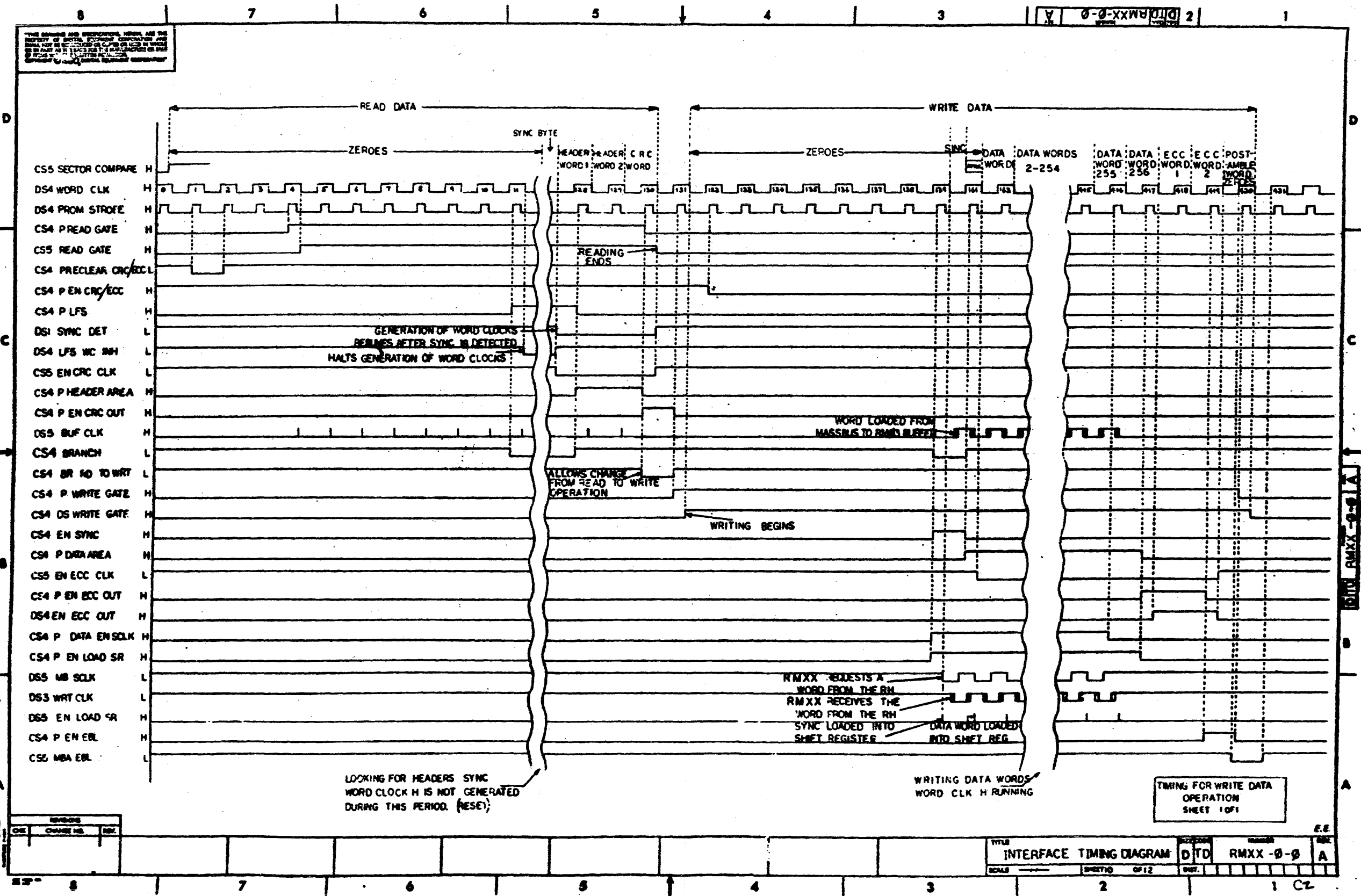
RMXX REQUESTS A  
 WORD FROM THE RH  
 RMXX RECEIVES THE  
 WORD FROM THE RH  
 SYNC LOADED INTO  
 SHIF REGISTER  
 DATA WORD LOADED  
 INTO SHIF REG

ALLOWS CHANGE  
 FROM READ TO WRITE  
 OPERATION

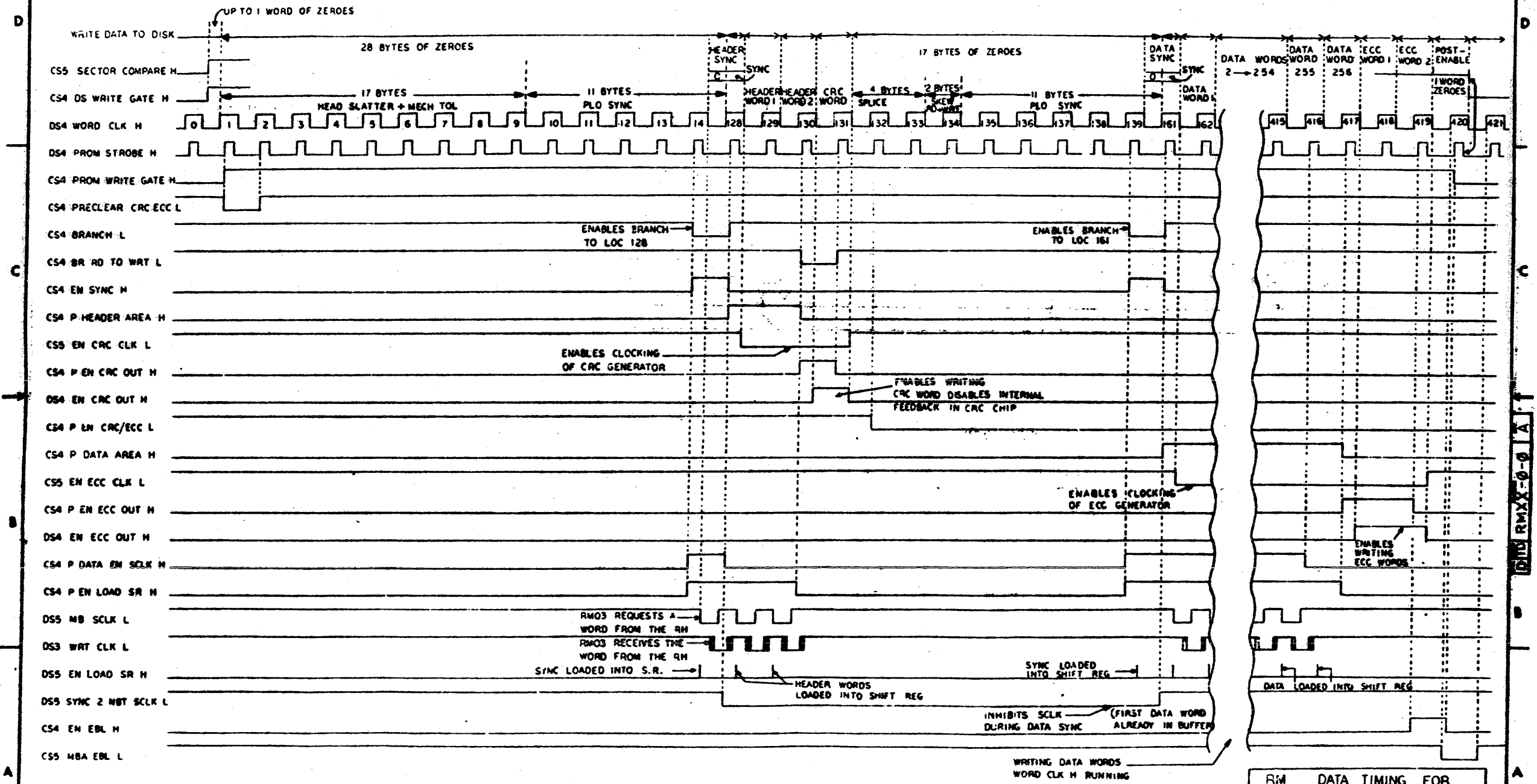
WORD LOADED FROM  
 MASSBUS TO RMXX BUFFER

GENERATION OF WORD CLOCKS  
 BEGINS AFTER SYNC IS DETECTED  
 HALTS GENERATION OF WORD CLOCKS

READING ENDS



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RM DATA TIMING FOR WRITE HEADER & DATA

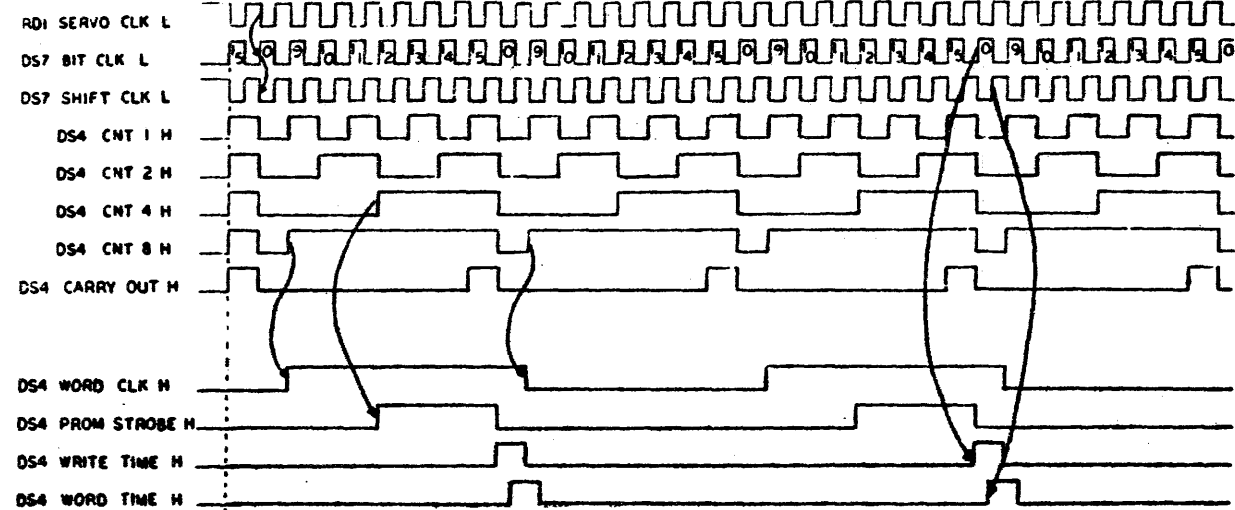
REVISIONS		
CHR	CHANGE NO.	REV.

TITLE	INTERFACE TIMING DIAGRAM	D/TD	NUMBER	RMXA-0-0 A	REV.	
SCALE		SHEET	5 OF 12	DATE		

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DIGITAL RMXX-0-0 2

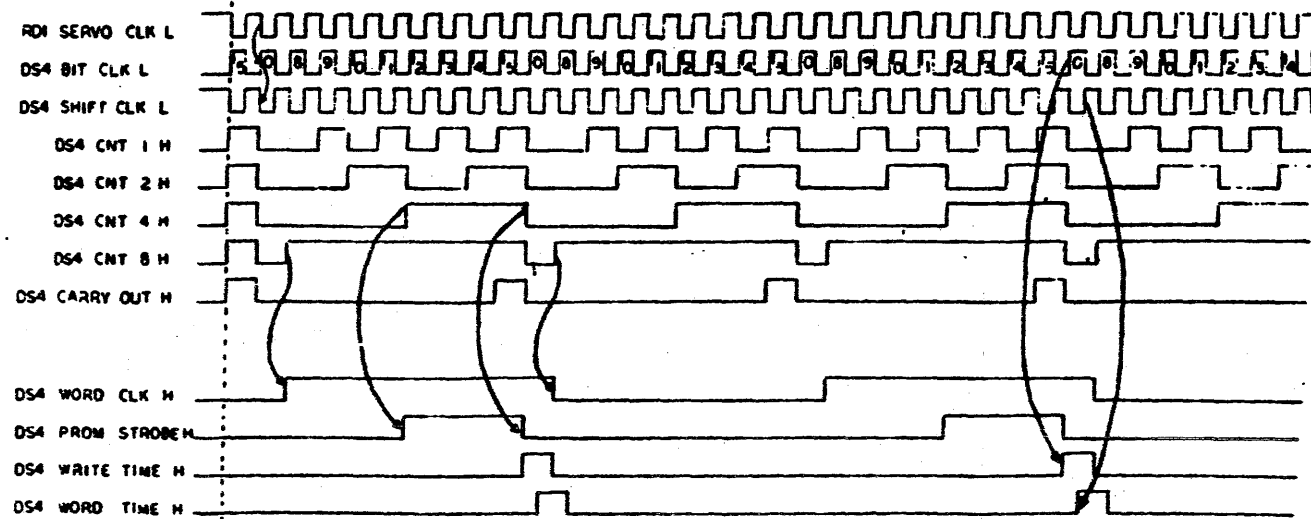
16 BIT MODE



NOTE

1. THESE TIMING DIAGRAMS DESCRIBE THE BASIC DATA TIMING GENERATED ON THE M7685 MODULE (SHEET DS4).
2. THE NUMBER ENCLOSED UNDER THE LEADING EDGE OF THE SIGNAL DS7 BIT CLOCK L (16) INDICATES THE COUNT VALUE OF EG PRODUCED BY THE LEADING EDGE OF THAT PULSE.

18 BIT MODE



BASIC DATA TIMING  
(CLOCK GENERATION) PAGE 1 OF 1

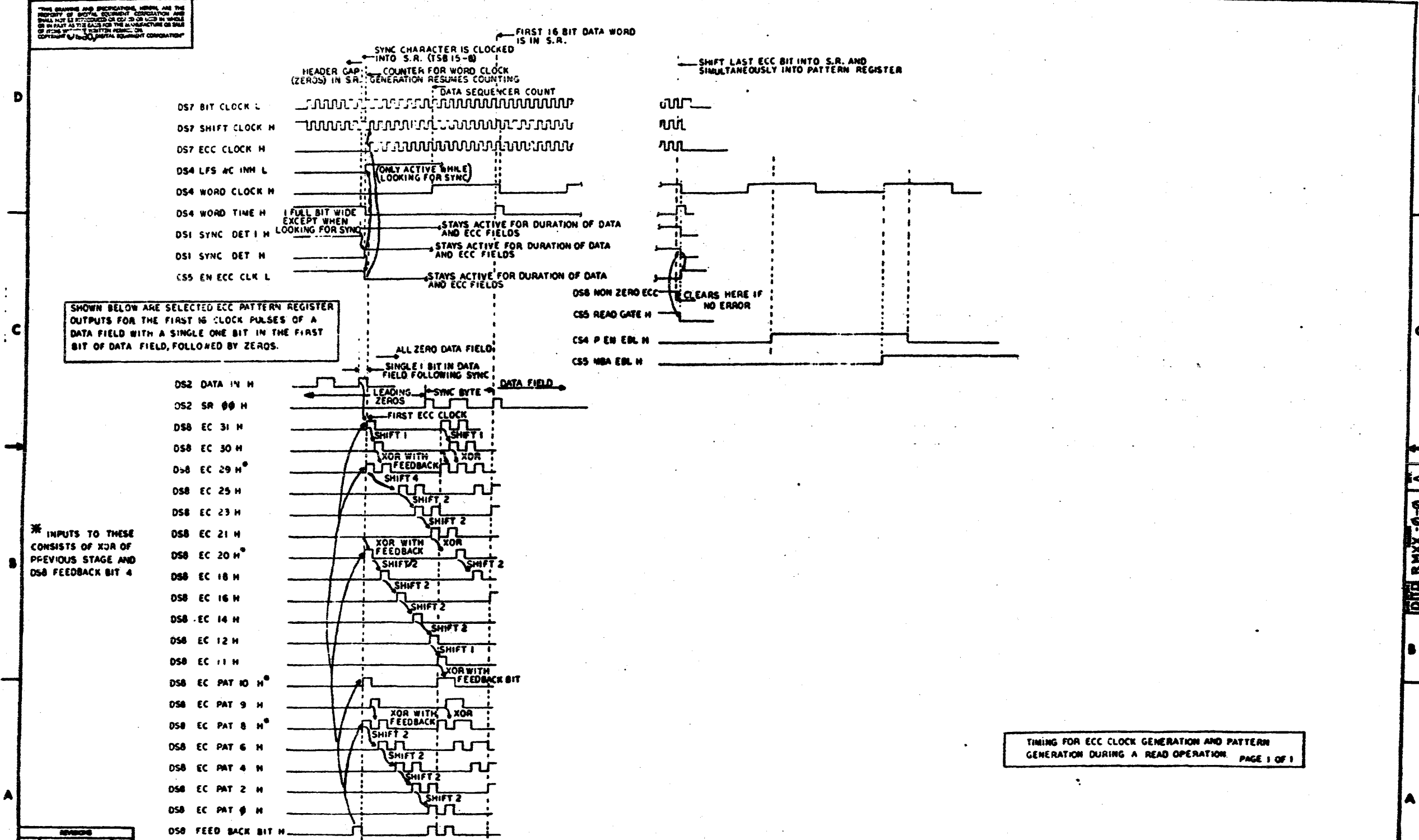
REVISIONS		
DATE	CHANGE NO.	REV.

TITLE INTERFACE TIMING DIAGRAM  
SCALE 1:1  
SHEET 7 OF 12  
REV. 1  
DITC RMXX-0-0 A

8 7 6 5 4 3 2 1 CZ

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DITD RMXX-0-0 2 A

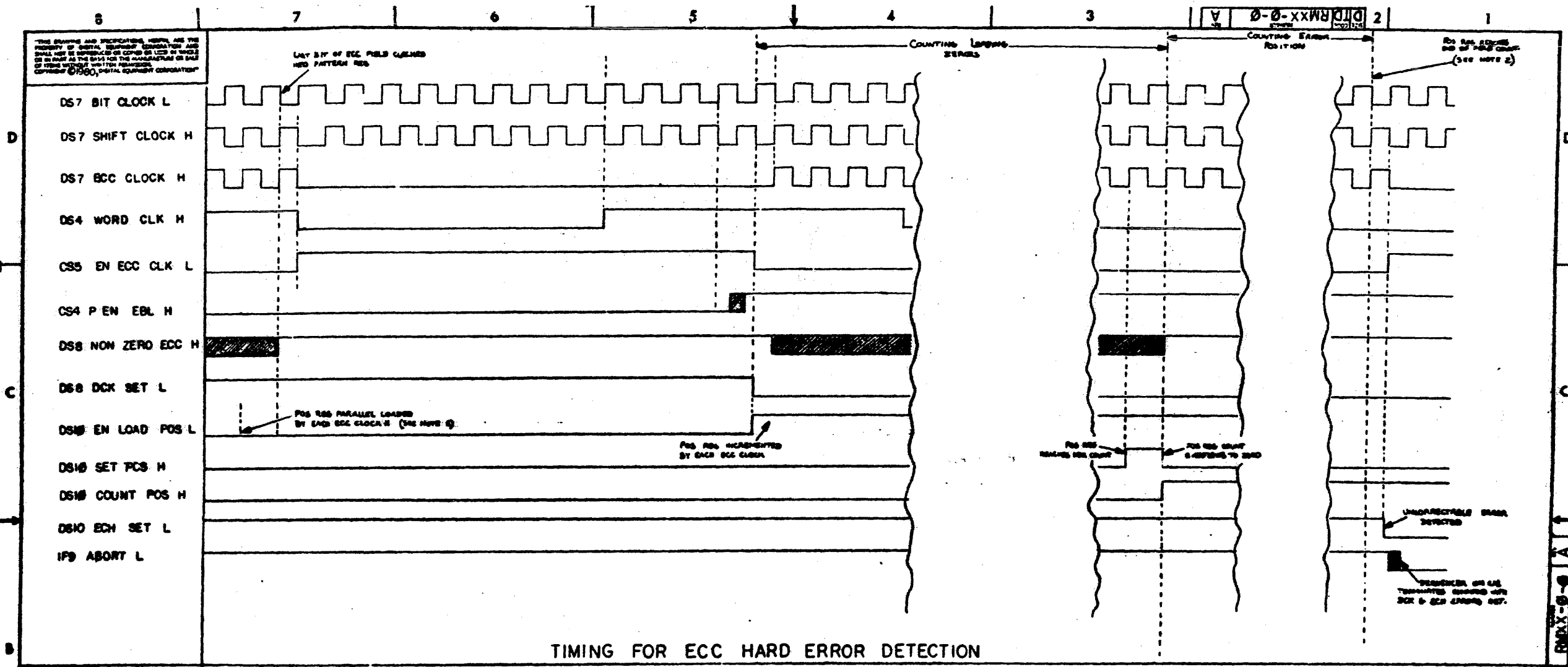


\* INPUTS TO THESE CONSISTS OF XOR OF PREVIOUS STAGE AND DS8 FEEDBACK BIT 4

TIMING FOR ECC CLOCK GENERATION AND PATTERN GENERATION DURING A READ OPERATION. PAGE 1 OF 1

REVISIONS		
CHK	CHANGE NO.	REV.

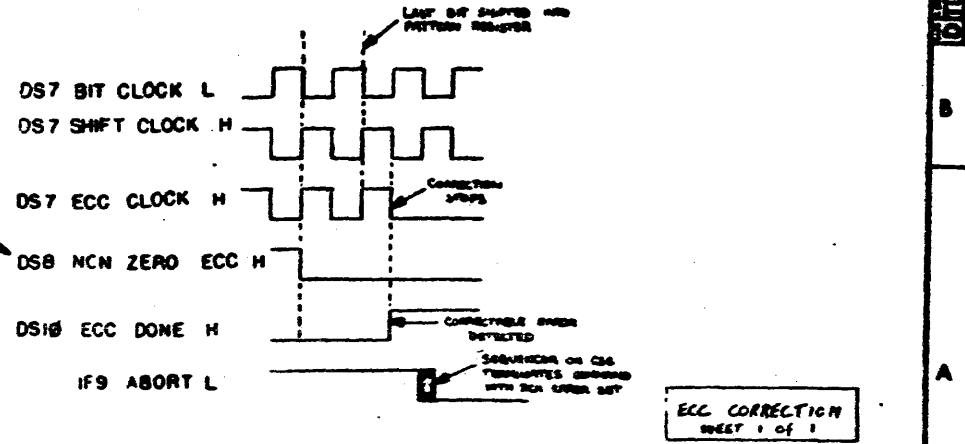




TIMING FOR ECC HARD ERROR DETECTION

- NOTES: (1) THE POSITION REGISTER IS PARALLEL RELOADED TO:
- (a) 640000 for 16 BIT MODE.
  - (b) 650000 for 18 BIT MODE.
- (2) THE END OF FIELD COUNT FOR THE POSITION REGISTER IS:
- (a) 100400 for 16 BIT MODE.
  - (b) 110400 for 18 BIT MODE.

ASSUMES A ZERO ECC CORRECTABLE ERROR RESULT IS DETECTED DURING THE CORRECTION PHASE TERMINATION IS AS SHOWN HERE.



REVISED		
CHK	CHANGE NO.	REV

DTRMXX-0-0-A

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1 2 3 4 5 6 7 8  
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

INDEX

- PAGE 1 INDEX
- 2. CONTROL SEQUENCER (RESET CONDITION AND BRANCH CODES)
- 3. CONTROL SEQUENCER FLOW (PAGE 1-START)
- 4. CONTROL SEQUENCER FLOW (PAGE 2-ERROR START)
- 5. CONTROL SEQUENCER FLOW (PAGE 3-RECALIBRATE-SEEK-DRIVE CLEAR)
- 6. CONTROL SEQUENCER FLOW (PAGE 4-SEARCH)
- 7. CONTROL SEQUENCER FLOW (PAGE 5-DATA COMMANDS)
- 8. CONTROL SEQUENCER FLOW (PAGE 6-DATA OFFSET-DATA OPI-ABORT EBL)
- 9. CONTROL SEQUENCER ROM LISTINGS (PAGE 1)
- 10. CONTROL SEQUENCER ROM LISTINGS (PAGE 2)
- 11. DATA SEQUENCER ROM LISTINGS

INDEX  
PAGE 1 OF 1

REV. 11/77  
 12 RELEASED TO  
 13 140 CONTROL  
 30 31 REV A

DATE	BY	CHKD BY	DATE	REV.
11/77	12	13	14	15
NEXT NUMBER ABBV.		B-T-C-RM88-0-1		
SCALE	1 OF 13	D FD RMXX-0-0		A
SHEET		CZ 1		

D FD RMXX-0-0

A

D

D

C

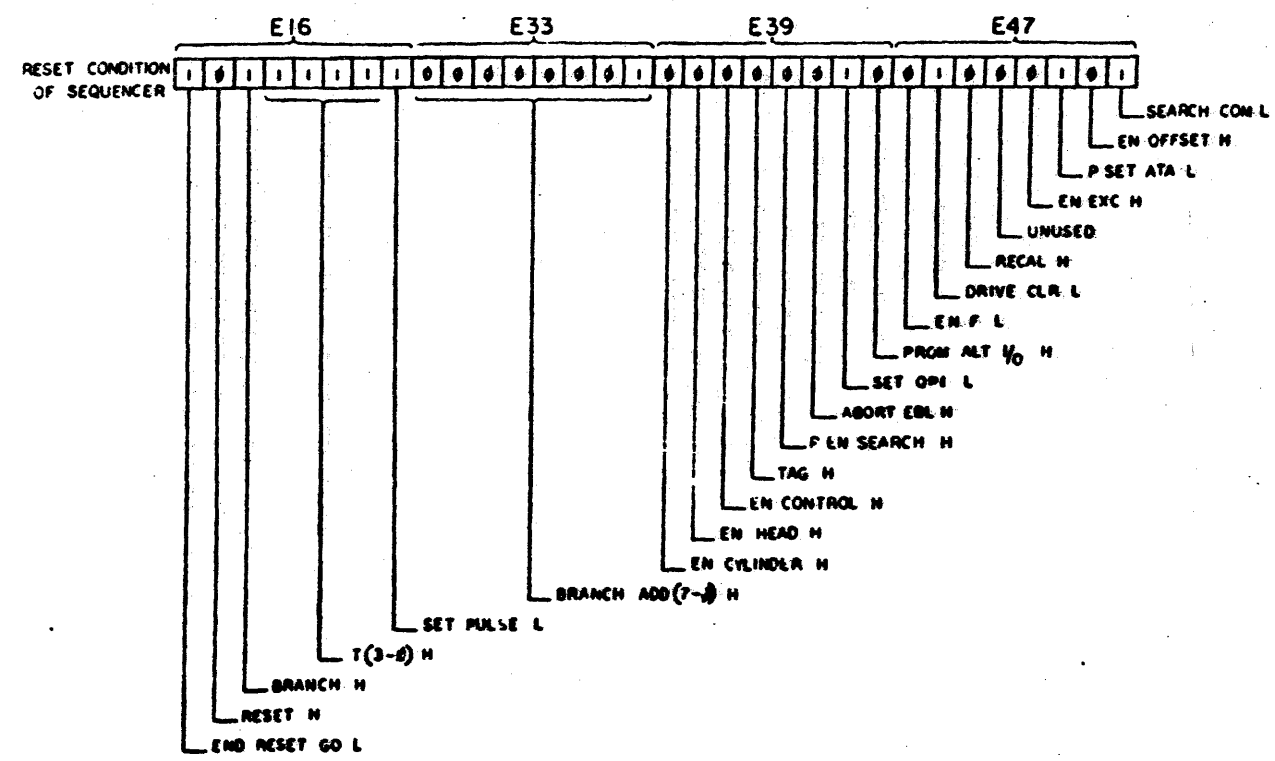
C

A

A

8 7 6 5 4 3 2 1

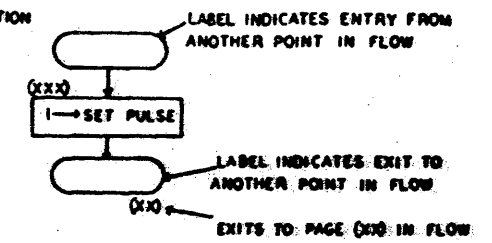
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TEST CODE	BRANCH CONDITION
00	OCCUPIED L
01	ON CYLINDER L
02	ABORT L
03	UNIT READY L
04	NOT USED
05	F 4 L
06	ON LATCH L
07	RUN AND GO L
10	MBA EBL L
11	SECTOR COMPARE L
12	OFFSET MODE L
13	DATA COMMAND L
14	SEEK REQUIRED L
15	NEW TRACK REQUIRED L
16	CONTINUE L
17	UNCONDITIONAL BRANCH

**NOTE:**

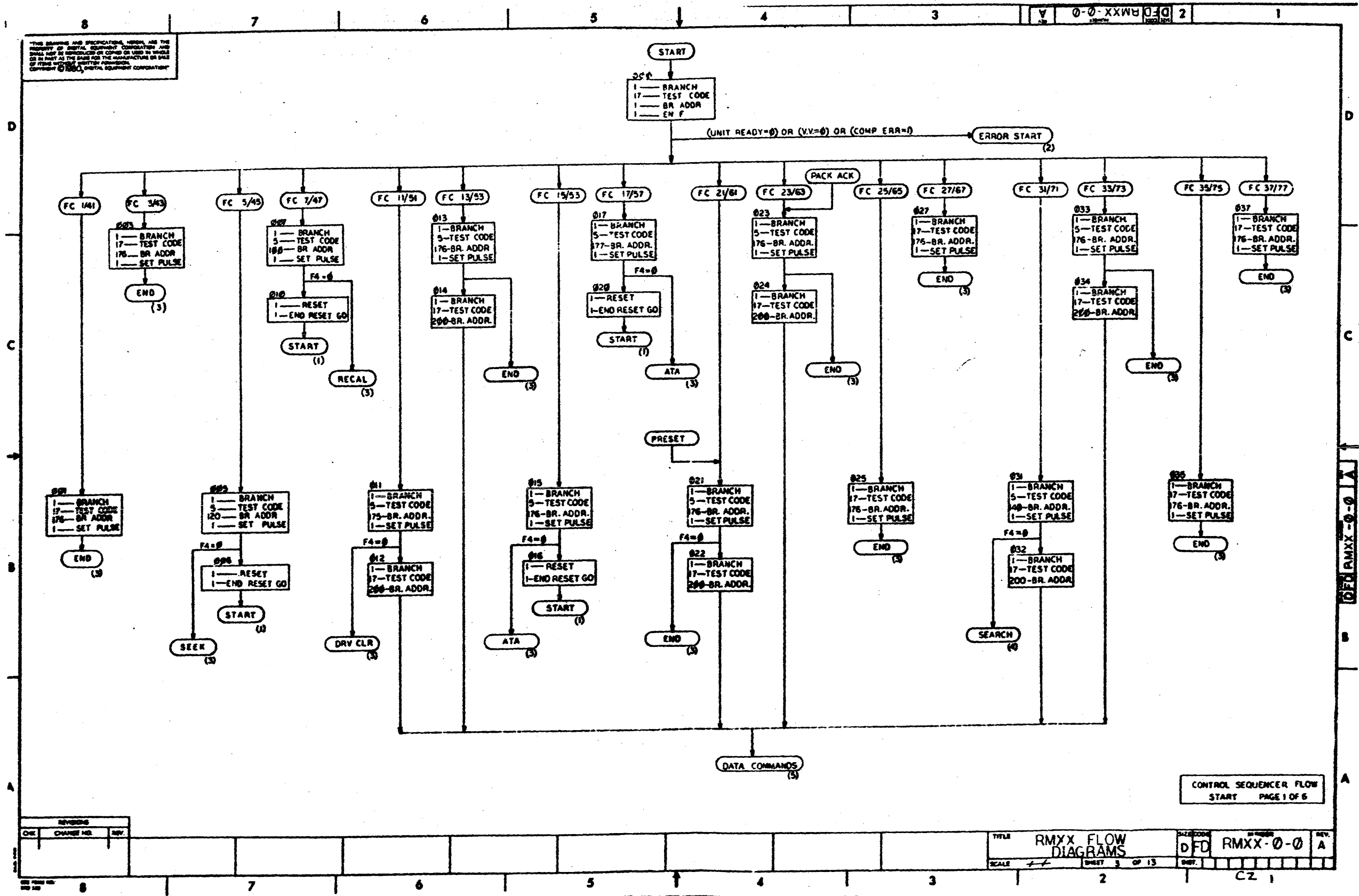
- (XXX) IS ROM LOCATION IN OCTAL OF THIS MICROWORD
- EXAMPLE 1→SET PULSE, MEANS ASSERT THE SIGNAL 'SET PULSE L'
- PROM 1/0 IS NOT SHOWN IN FLOW. ALL OTHER SIGNALS ASSERTED DURING ANY MICROWORD ARE SHOWN IN THE FLOW FOR THAT WORD.
- ALL ADDRESSES, BRANCH ADDRESSES AND TEST CODES SHOWN IN THE FLOWS ARE IN OCTAL.



CONTROL SEQUENCER  
RESET CONDITION AND  
BRANCH CODES (PAGE 1 OF 1)

REVISED		
CHK	CHANGE NO.	REV.

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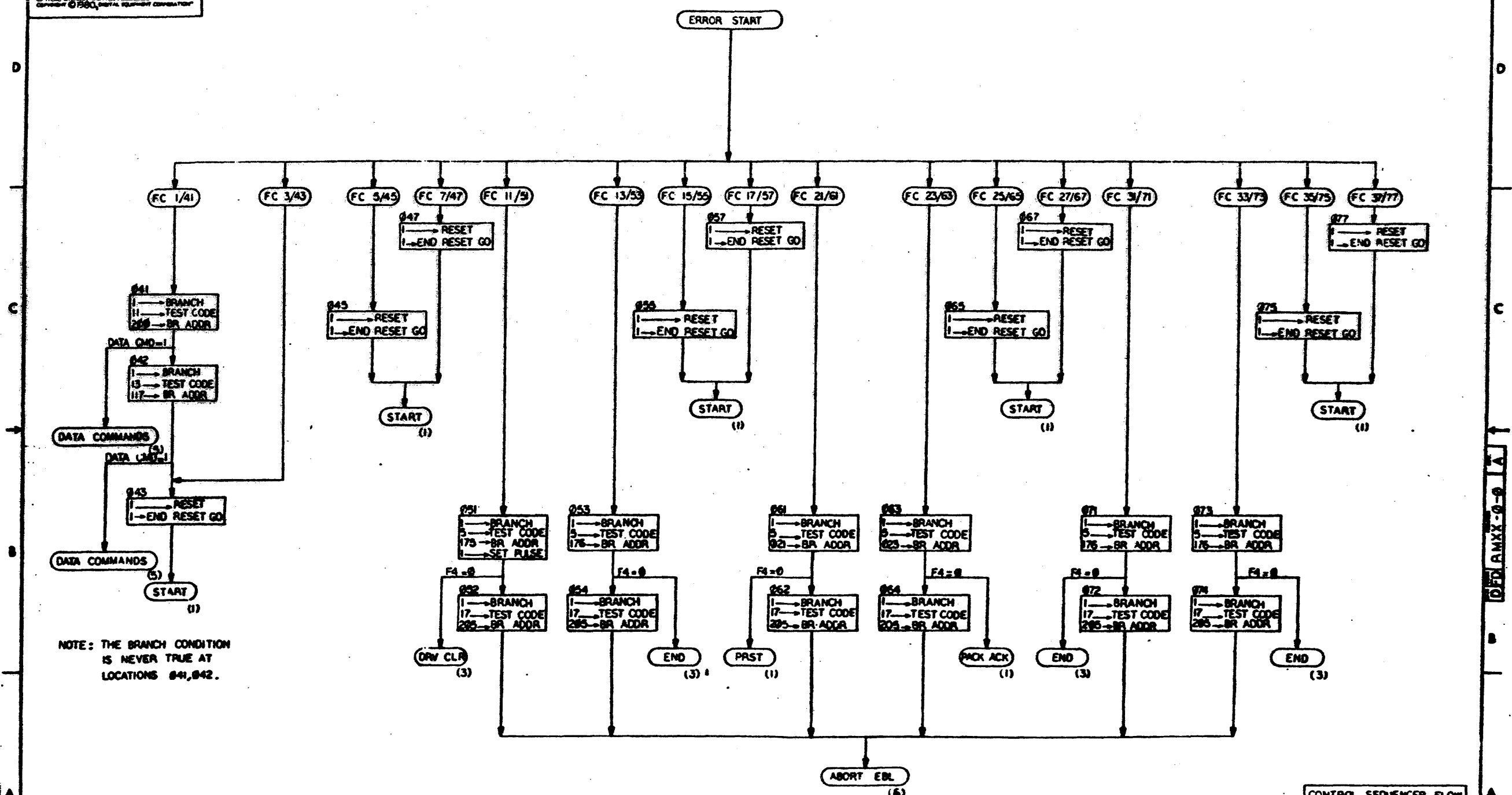


CONTROL SEQUENCER FLOW  
START PAGE 1 OF 6

REV.	CHG. NO.	BY

TITLE RMXX FLOW DIAGRAMS  
SCALE 1/1 SHEET 3 OF 13  
REV. A  
CZ 1

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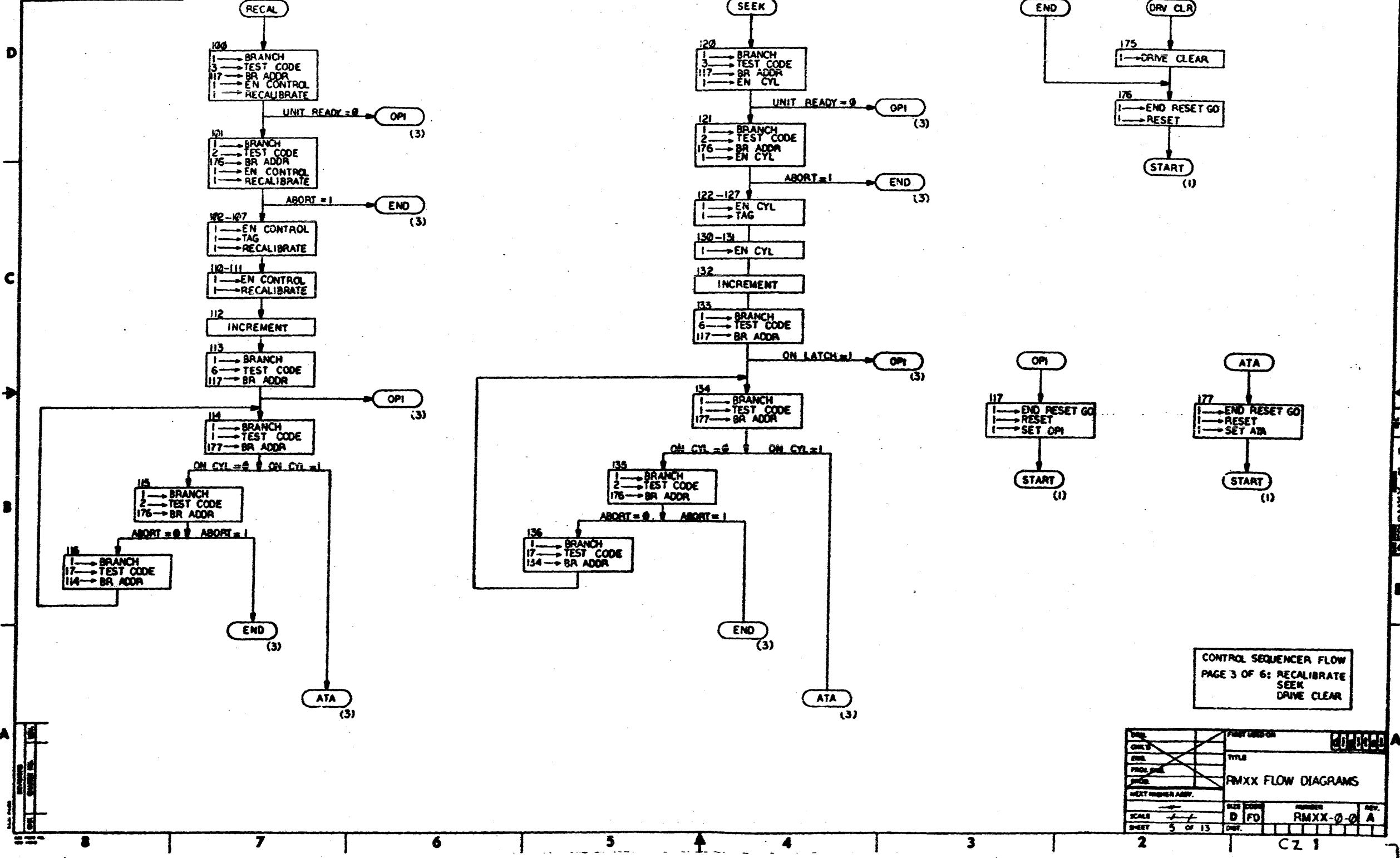


NOTE: THE BRANCH CONDITION IS NEVER TRUE AT LOCATIONS 041, 042.

CONTROL SEQUENCER FLOW  
PAGE 2 OF 6: ERROR START

REVISIONS		
CHK	CHANGE NO.	REV.

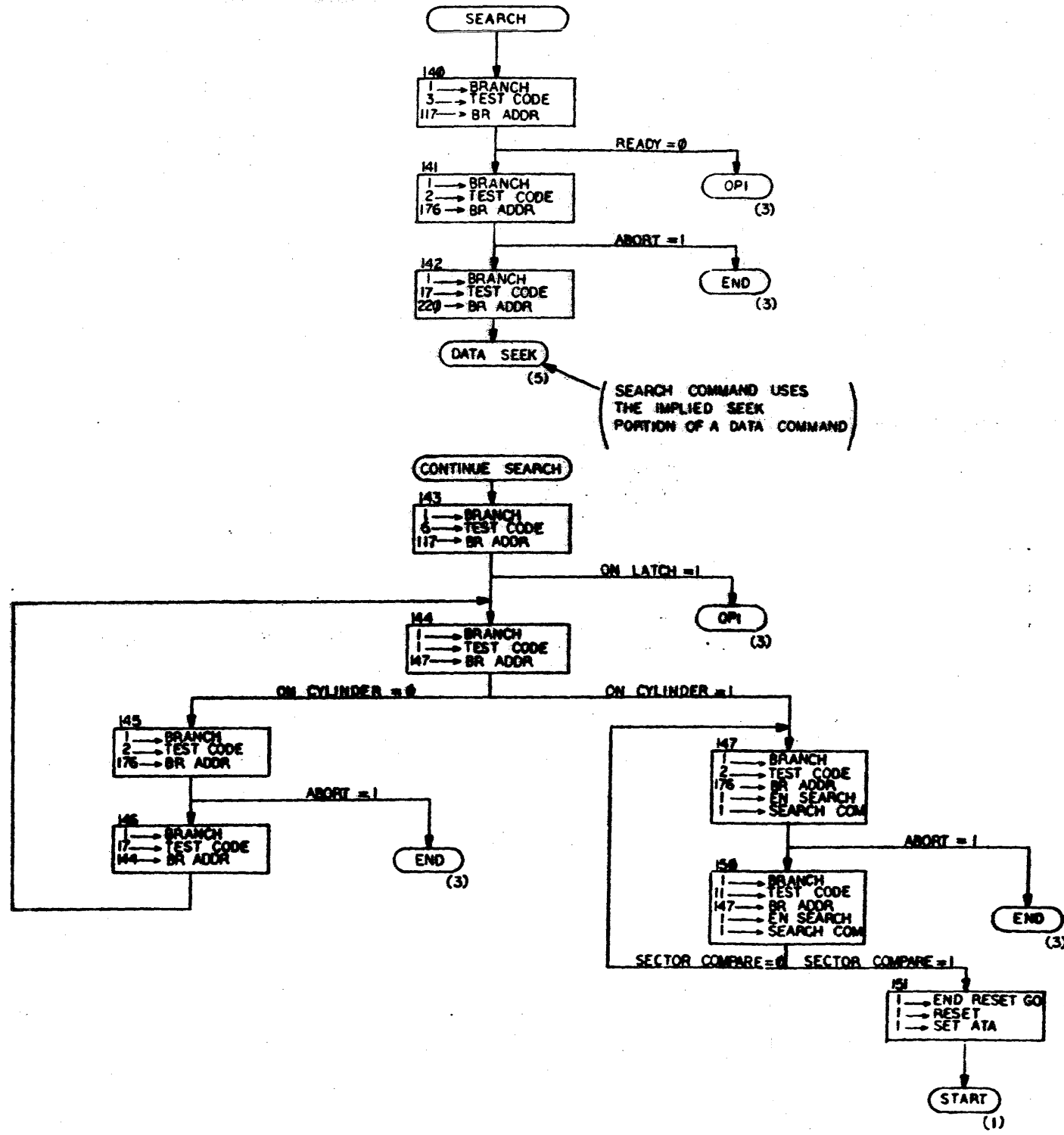
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CONTROL SEQUENCE FLOW  
PAGE 3 OF 6: RECALIBRATE  
SEEK  
DRIVE CLEAR

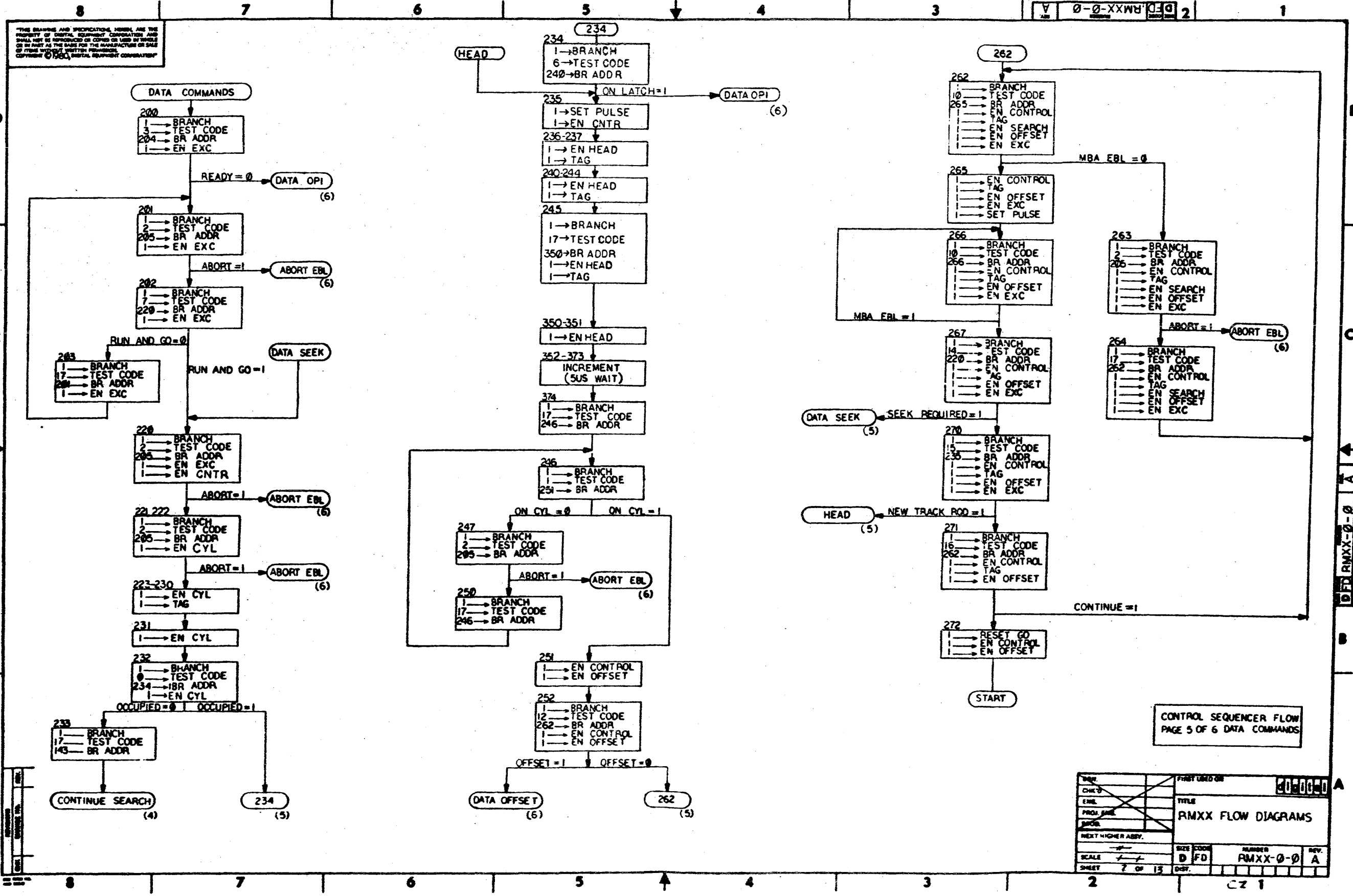
DATE	PROJ. DESIGN	REV.	NO.
SCALE	SIZE	CODE	NUMBER
SHEET 5 OF 13	D	FD	RMXX-0-0 A

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CONTROL SEQUENCER FLOW  
PAGE 4 OF 6: SEARCH

DATE	REVISED BY	NO.
CHK'D		40-0000
ENGR	TITLE	
PRG. ENGR	RMXX FLOW DIAGRAMS	
DRW. ENGR		
NEXT NUMBER ASSY.		
SCALE	D F D	REV. RMXX-0-0 A
SHORT	6 OF 13	

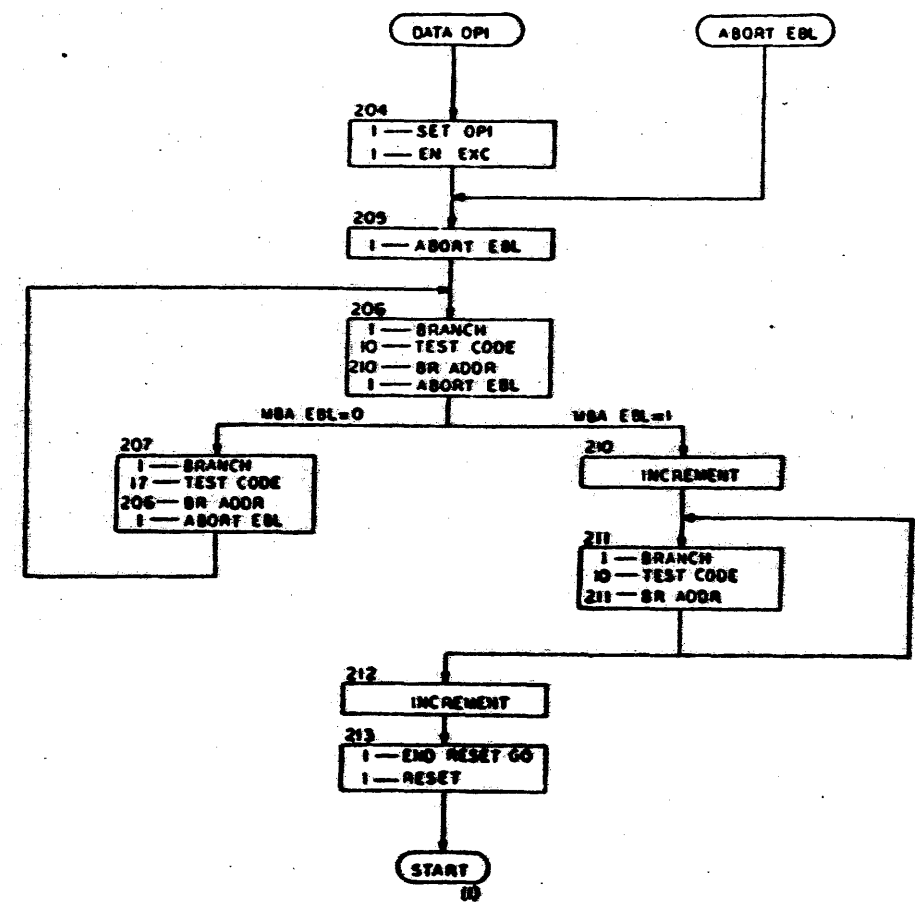
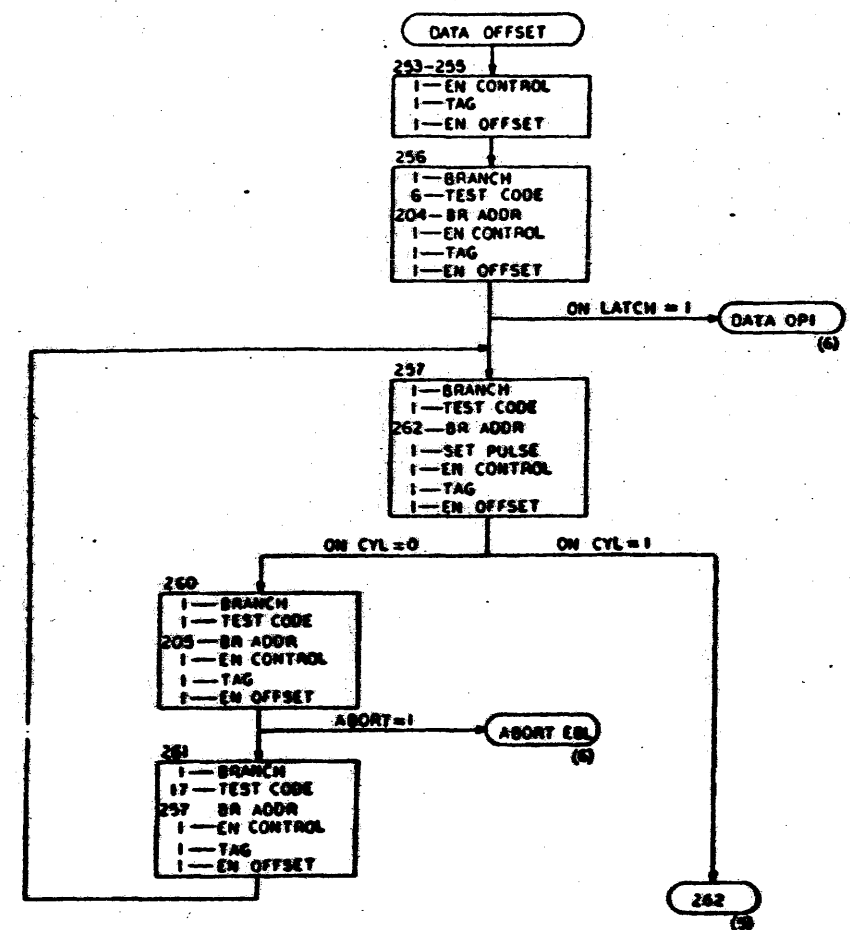


DATE	FIRST USED ON	200000
CHK'D	TITLE	RMXX FLOW DIAGRAMS
ENR'D	PROJ. FILE	
PROG. FILE	PROG.	
NEXT HIGHER ASSY.	SIZE CODE	D / FD
SCALE	NUMBER	RMXX-0-0 A
SHEET 7 of 13	REV.	

CZ 1



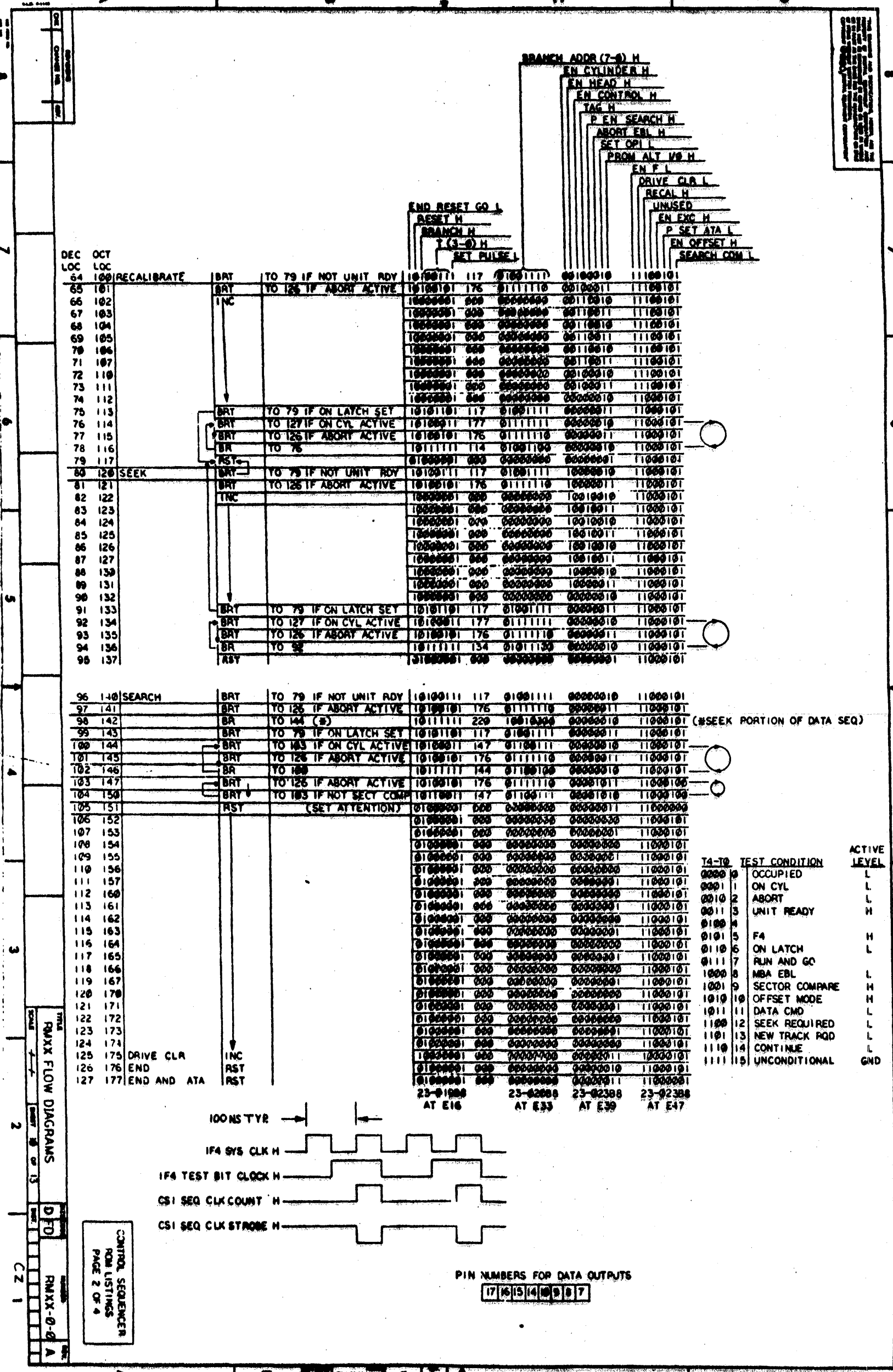
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CONTROL SEQUENCER  
FLOW  
DATA OPI  
DATA OFFSET  
ABORT EBL PAGE 6 OF 6

REVISIONS		
CHK	CHANGE NO.	REV





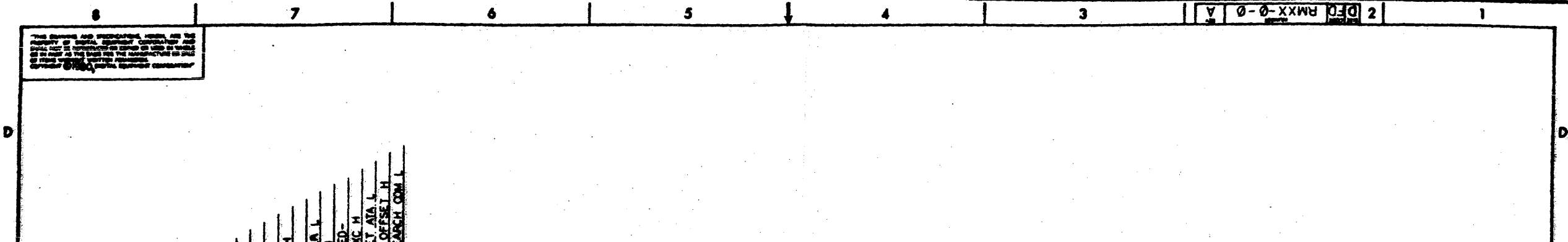
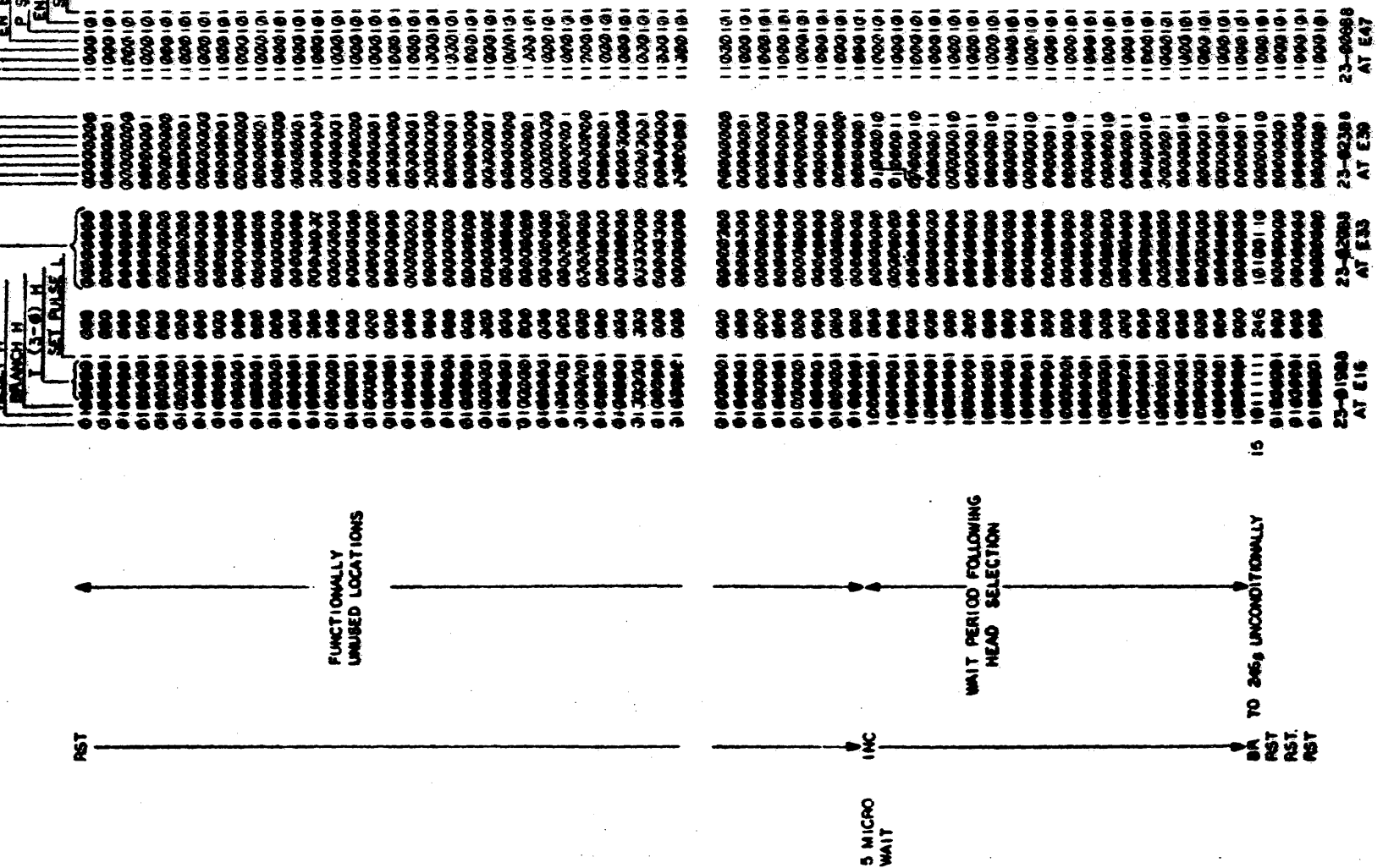


REV	DATE	BY

REVISED

DEC LOC	OCT LOC
192	300
193	301
194	302
195	303
196	304
197	305
198	306
199	307
200	310
201	311
202	312
203	313
204	314
205	315
206	316
207	317
208	320
209	321
210	322
211	323
212	324
213	325
214	326
215	327
216	330
217	331
218	332
219	333
220	334
221	335
222	336
223	337

CONTROL SEQUENCE  
ROM LISTINGS  
PAGE 4 OF 4

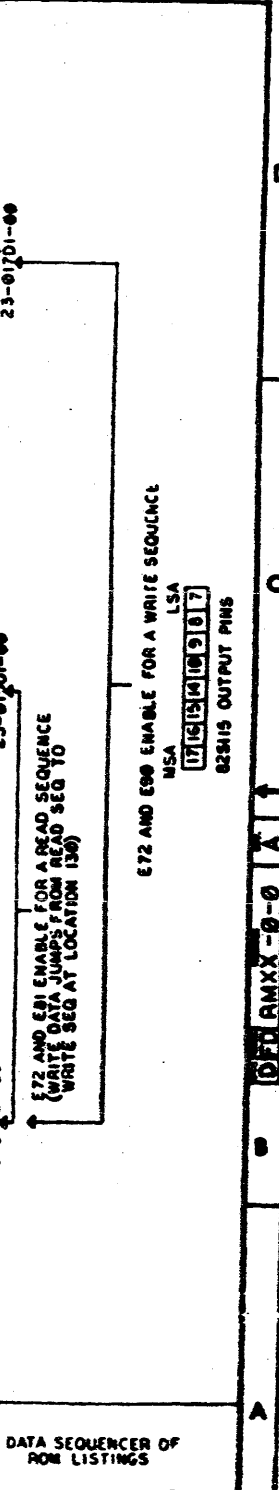
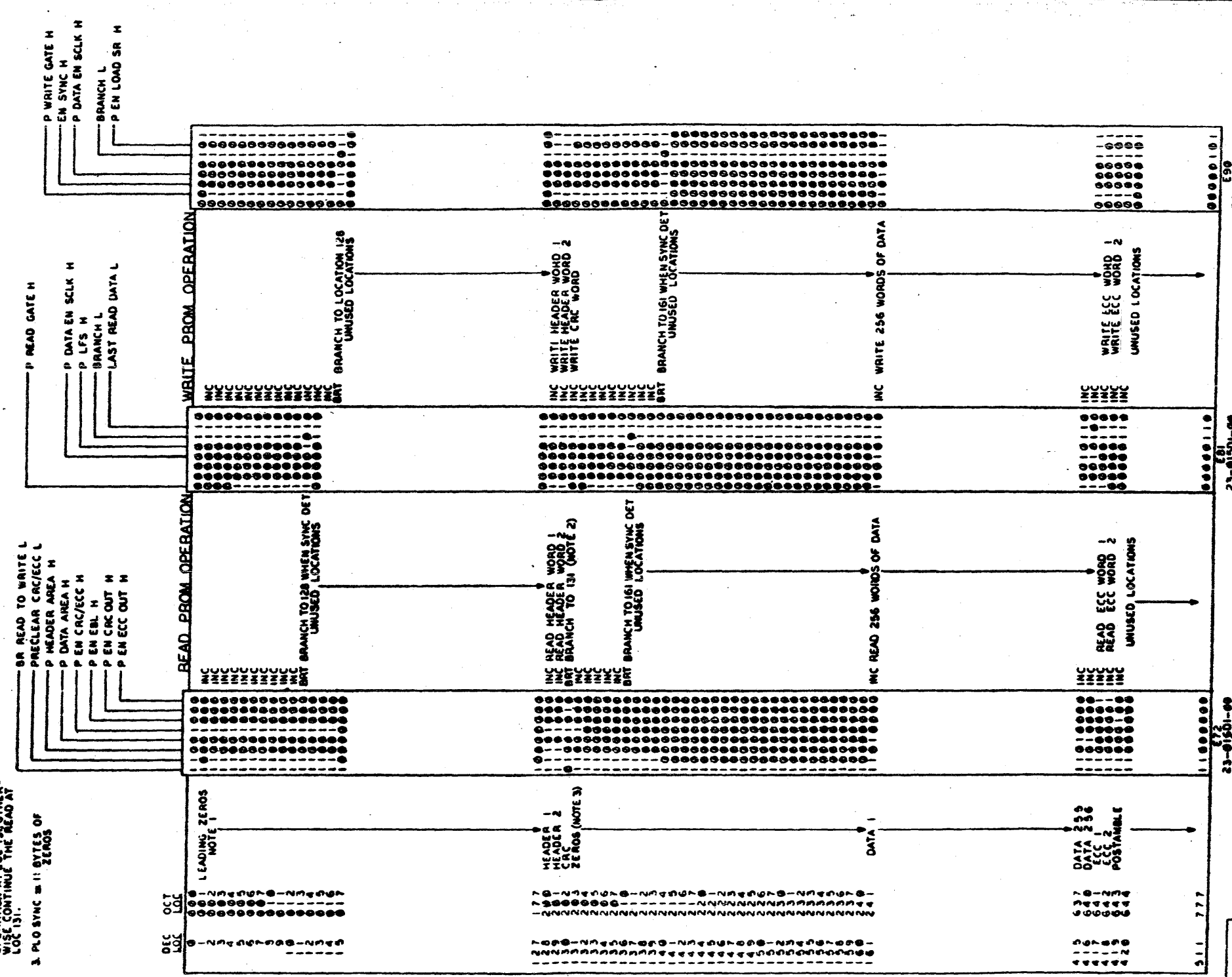


PIN NUMBERS FOR DATA OUTPUTS  
17 15 14 10 9 8 7

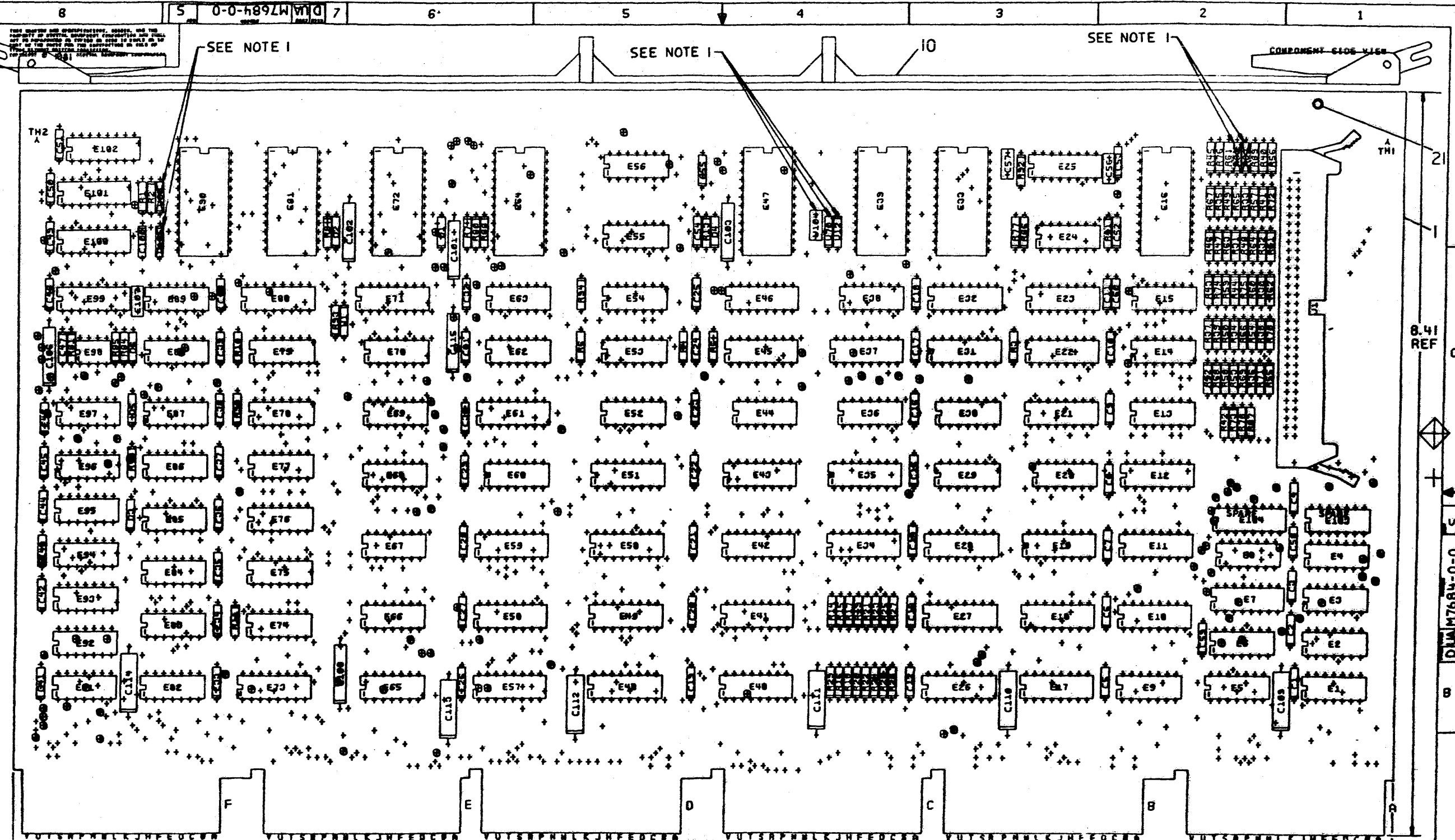
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A C D

**NOTE.**  
 1. SECTOR LEADING ZEROS, PREAMBLE EQUALS 17 BYTES FOR READ SCATTER AND 11 BYTES FOR PLO SYNC.  
 2. IF THE COMMAND IS WRITE DATA SWITCH TO WRITE PROM OPERATION AT LOC 131 OTHERWISE CONTINUE THE READ AT LOC 131.  
 3. PLO SYNC = 11 BYTES OF ZEROS



REVISIONS		
CHK	CHANGE NO.	REV.



NOTES:  
 1. R92, R93, U80, U103, U12, U70 & U104 ARE NOT USED.  
 2. E103 & E104 ARE SPARES.

STEP	Y AXIS	STEP	TIMES
REPEAT	- Y AXIS	REP	TIMES

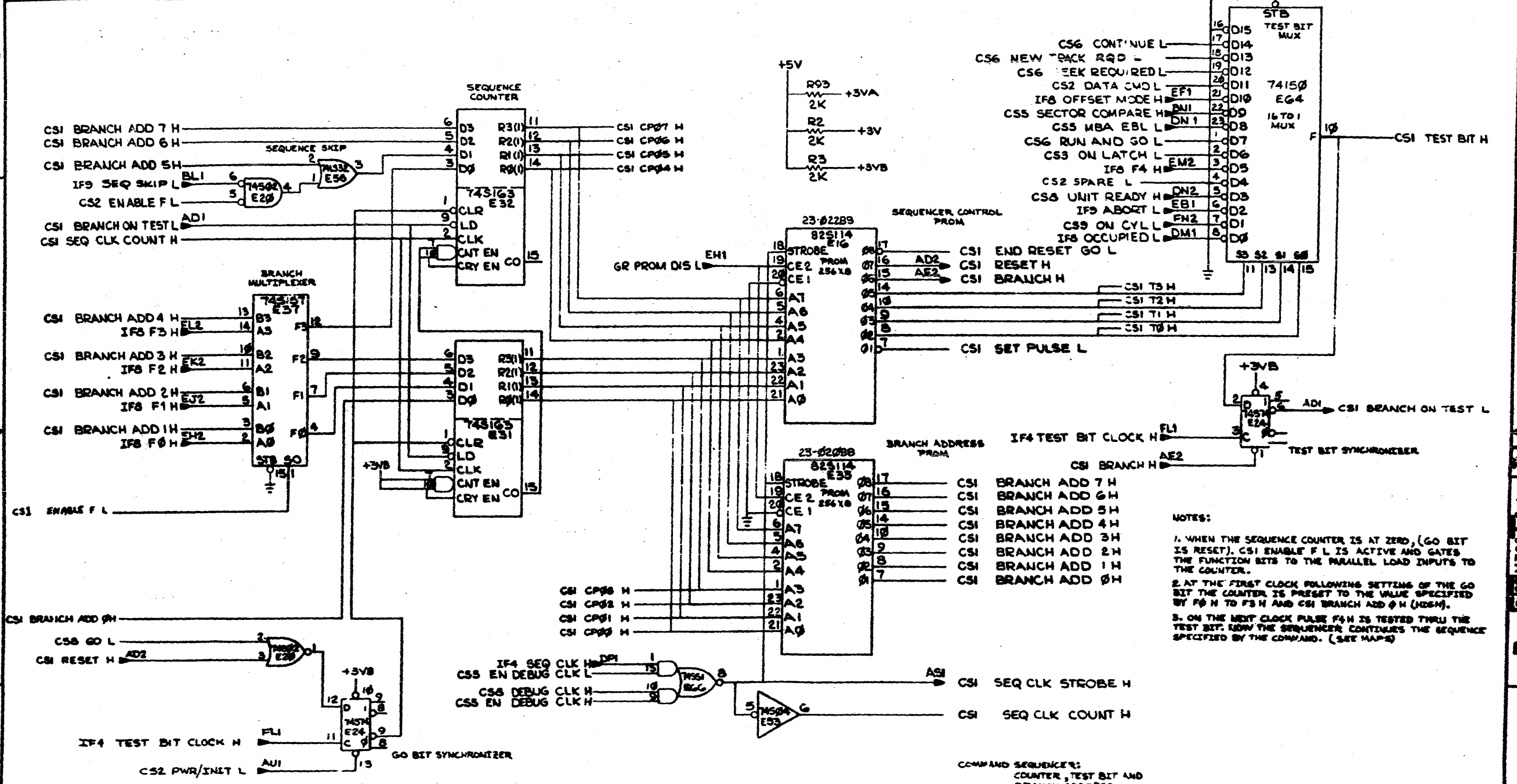
CHANGE NO.	BY	DATE	REASON
1	RAIKUNEN		

ETCH REV. E-PI

SIGNATURES	DATE
DRN. E. M.	10-20
CHK'D. P. H.	10-20
MECH. ENG. J. S.	10-20
PROJ. ENG. J. S.	10-20
PROD. J. S.	10-20
SCALE 2/1	
SHT. 1 OF 1	
*EST. WISNER RECY. B-OP. M761	

digital	TITLE CONTROL SEQUENCER
0 UA M7684-0-0 S	SIZE CODE NUMBER REV

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- NOTES:
1. WHEN THE SEQUENCE COUNTER IS AT ZERO, (GO BIT IS RESET), CS1 ENABLE F L IS ACTIVE AND GATES THE FUNCTION BITS TO THE PARALLEL LOAD INPUTS TO THE COUNTER.
  2. AT THE FIRST CLOCK FOLLOWING SETTING OF THE GO BIT THE COUNTER IS PRESET TO THE VALUE SPECIFIED BY F0 H TO F3 H AND CS1 BRANCH ADD 0 H (H0SM).
  3. ON THE NEXT CLOCK PULSE F4 H IS TESTED THRU THE TEST BIT. IF0 H THE SEQUENCER CONTINUES THE SEQUENCE SPECIFIED BY THE COMMAND. (SEE MAPS)

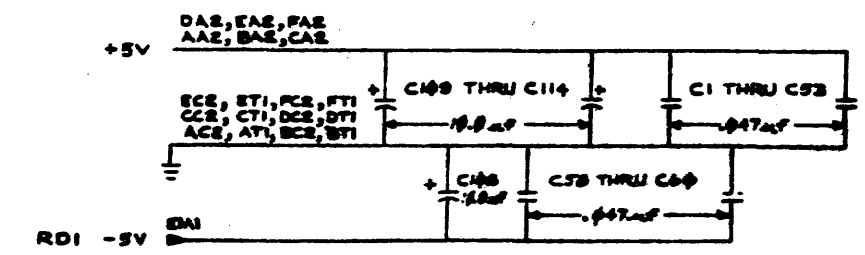
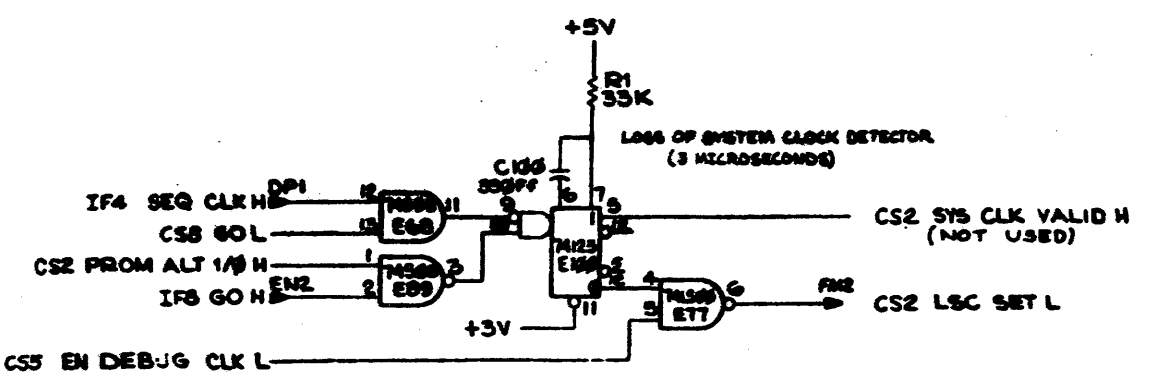
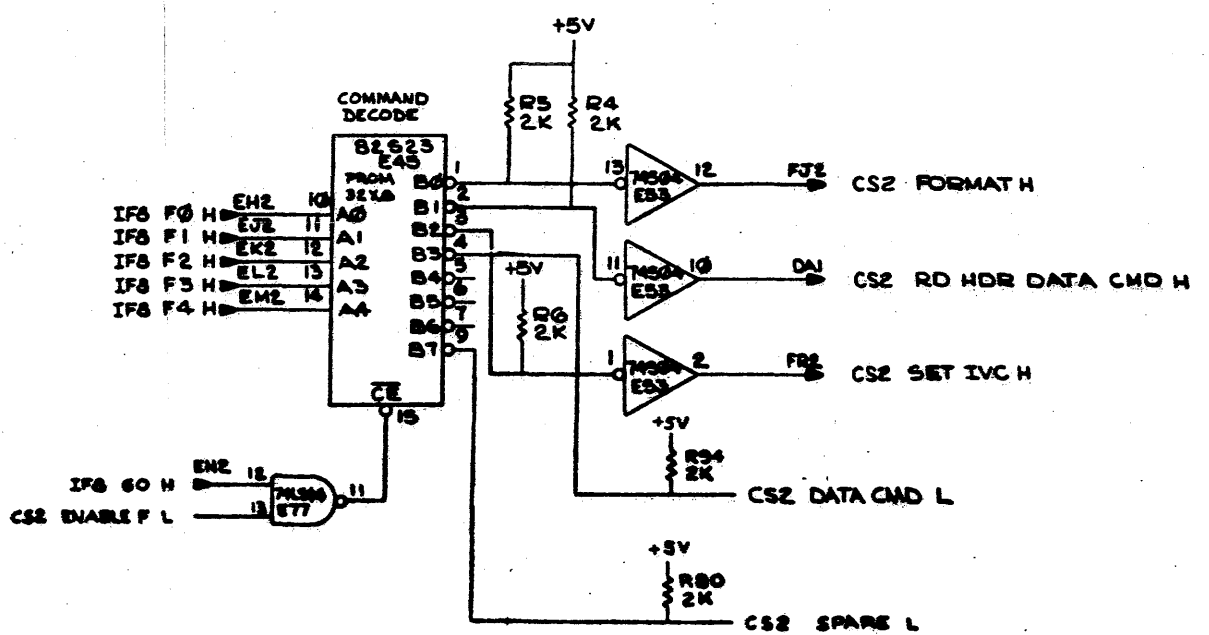
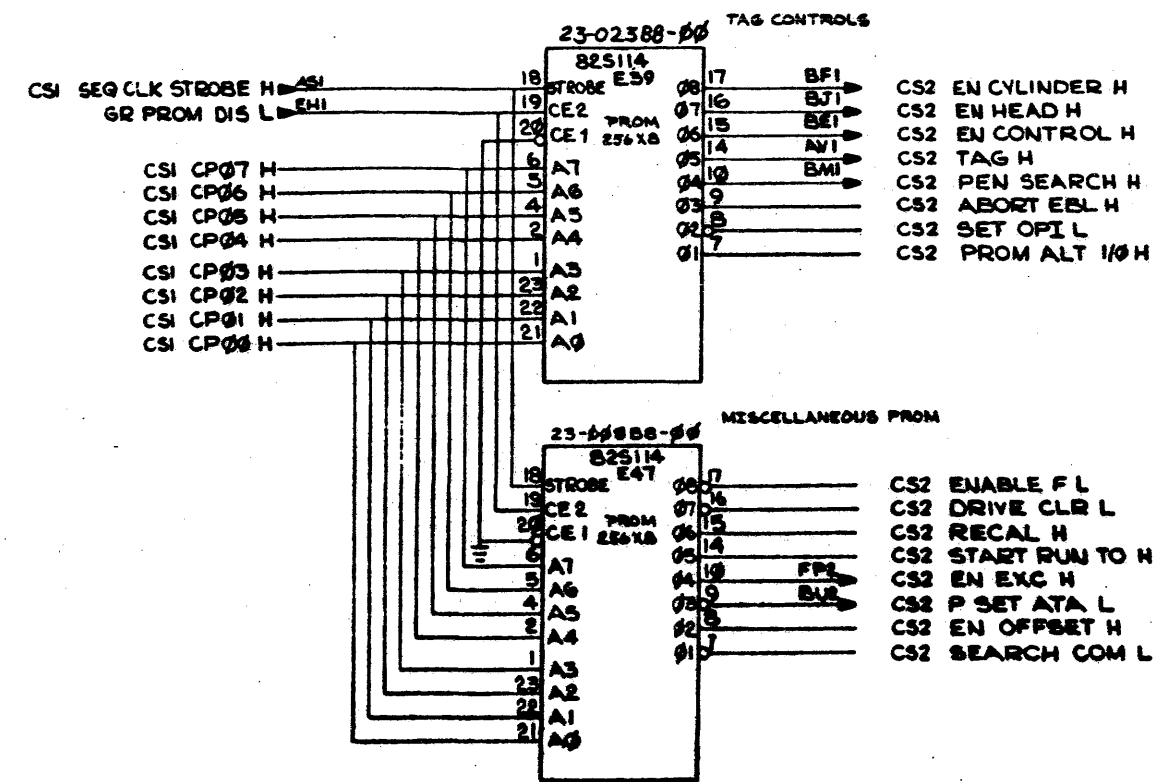
COMMAND SEQUENCER:  
COUNTER, TEST BIT AND  
BRANCH ADDRESS

1	W. J. BRYAN
2	W. J. BRYAN
3	W. J. BRYAN
4	W. J. BRYAN
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7	W. J. BRYAN
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11	W. J. BRYAN
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88	W. J. BRYAN
89	W. J. BRYAN
90	W. J. BRYAN
91	W. J. BRYAN
92	W. J. BRYAN
93	W. J. BRYAN
94	W. J. BRYAN
95	W. J. BRYAN
96	W. J. BRYAN
97	W. J. BRYAN
98	W. J. BRYAN
99	W. J. BRYAN
100	W. J. BRYAN

DATE	3-1-77	REV	5
CHKD	RM03	BY	CS1
ENR	1-2-77	TITLE	CONTROL (CS1)
PRD	1-3-77		SEQUENCER
PROJ	6-3-77		
NEXT HIGHER ASSY			
REV	5		
SCALE			
SHEET	1	OF	9



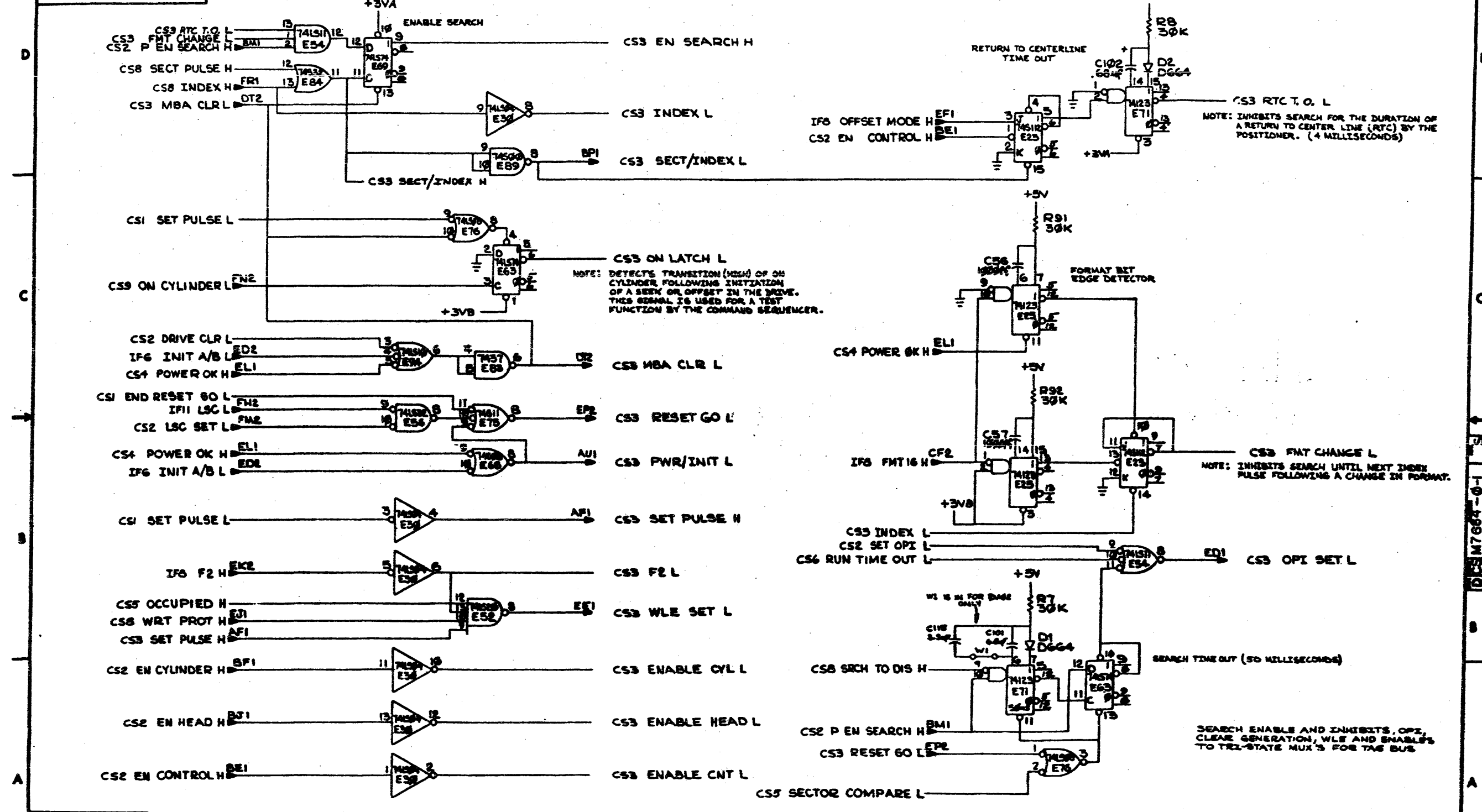
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COMMAND SEQUENCER: DRIVE CONTROLS (TAG) AND COMMAND DECODES

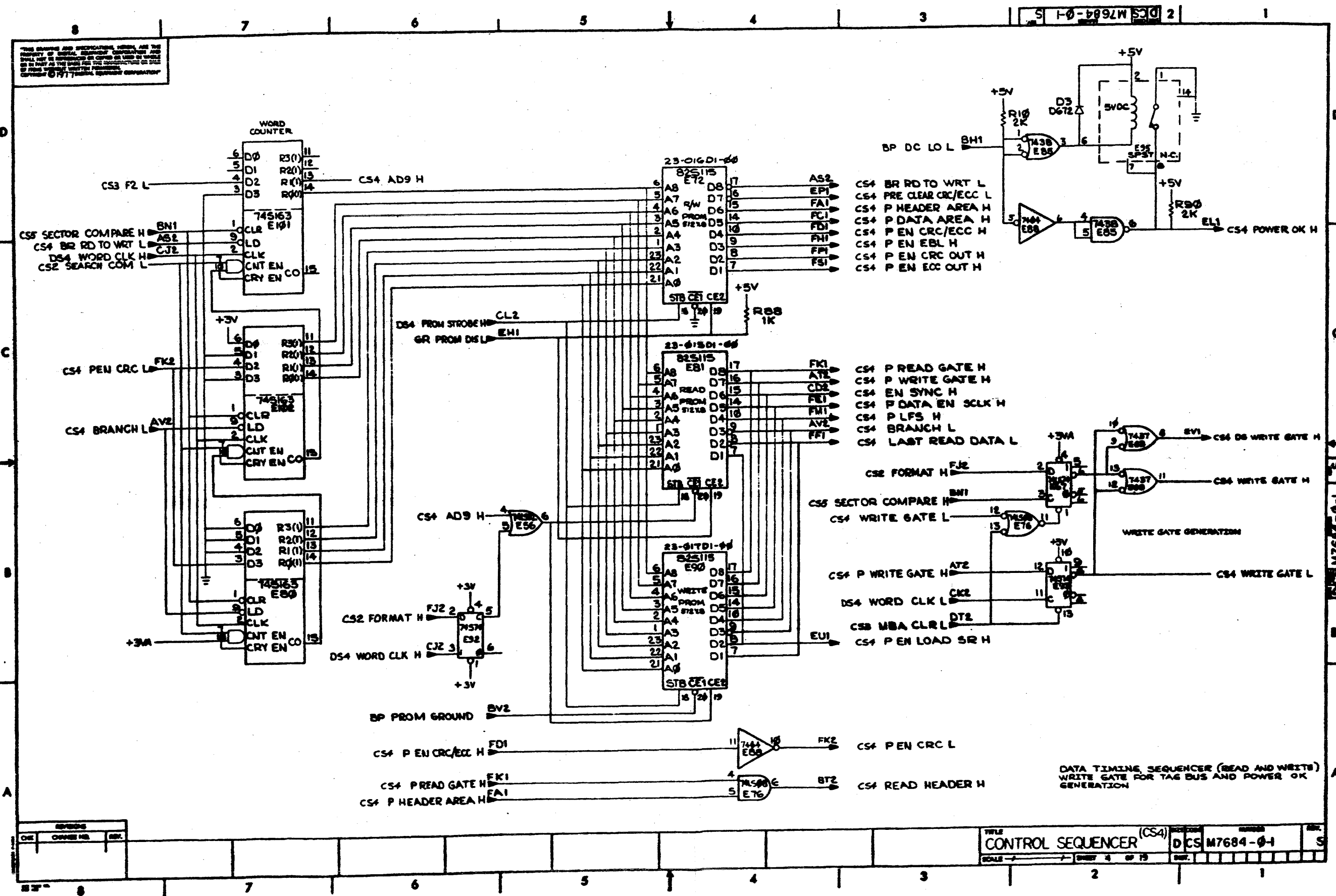
REV.	DATE	BY

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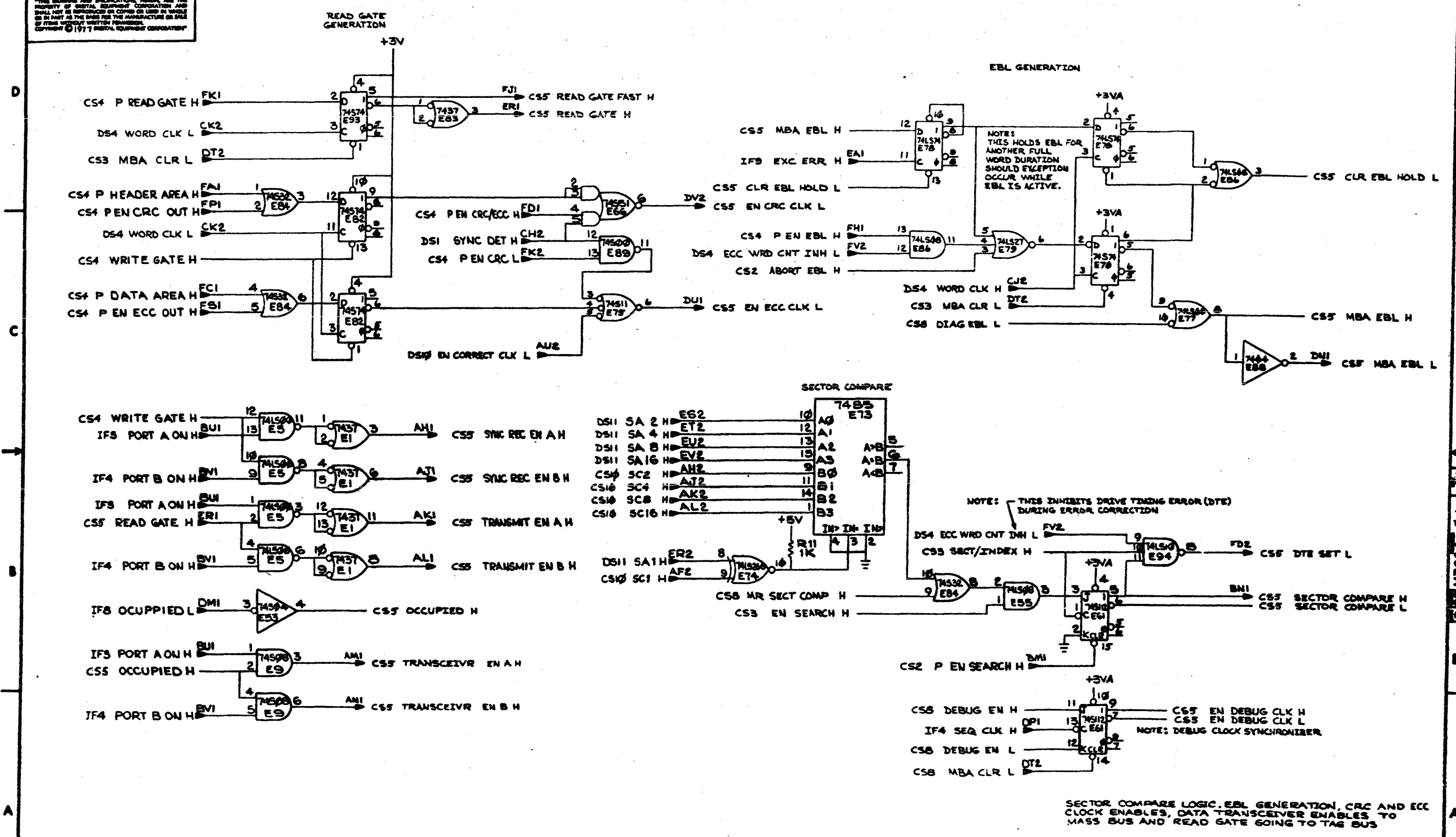
REV. 1			DESIGNER: [ ]			CHECKED: [ ]			DATE: [ ]			TITLE: CONTROL SEQUENCER (CS3)			DRAWING NO.: DCS M7684-0-1			REV. NS		
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DATA TIMING SEQUENCER (READ AND WRITES)  
 WRITE GATE FOR TAG BUS AND POWER OK  
 GENERATION

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EBL GENERATION

NOTES:  
THIS HOLDS EBL FOR ANOTHER FULL WORD DURATION SHOULD EXCEPTION OCCUR WHILE EBL IS ACTIVE.

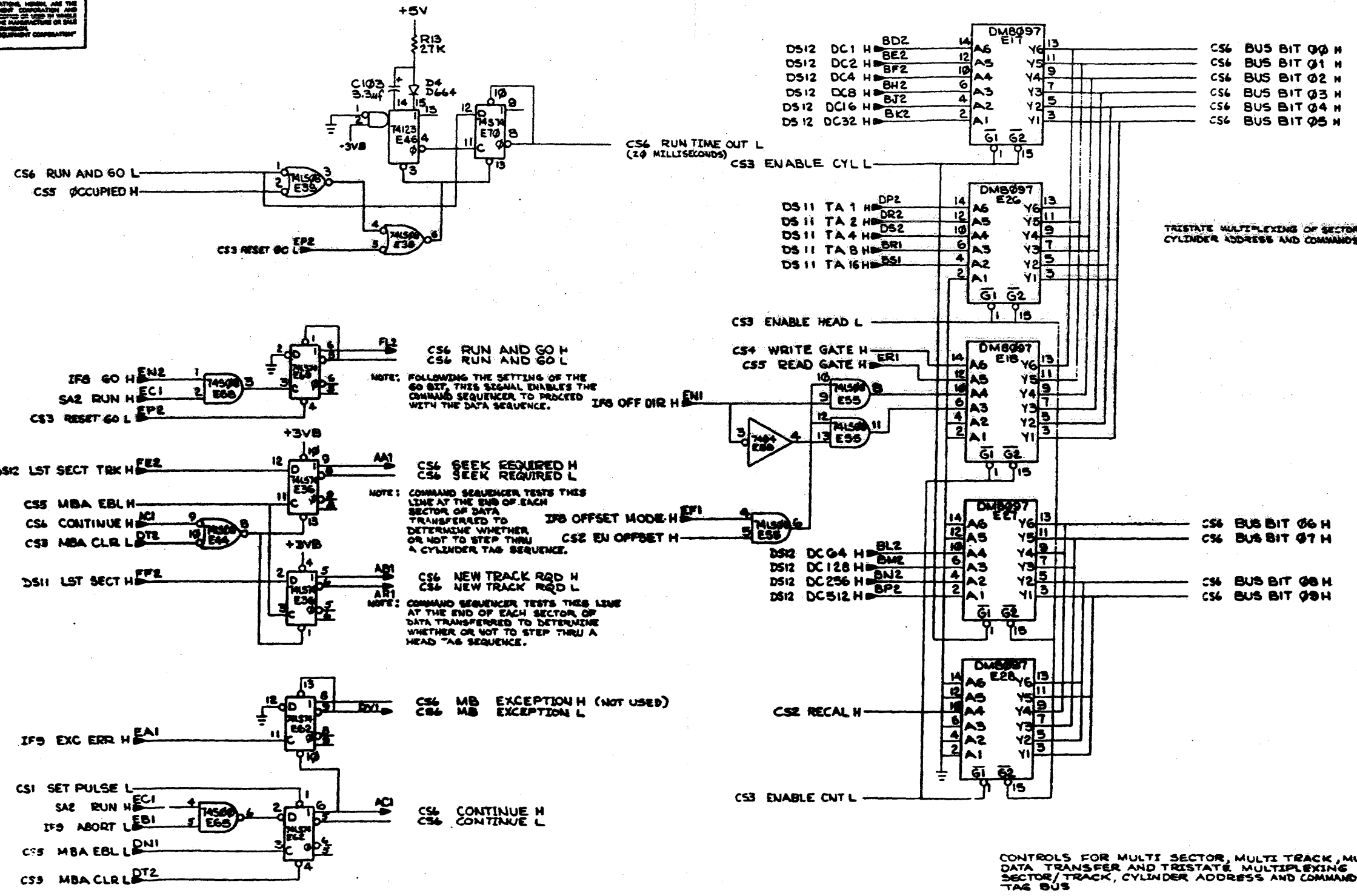
NOTE: THIS INHIBITS DRIVE TIMING ERROR (DTE) DURING ERROR CORRECTION

NOTE: DEBUG CLOCK SYNCHRONIZER

SECTOR COMPARE LOGIC, EBL GENERATION, CRC AND ECC CLOCK ENABLES, DATA TRANSCEIVER ENABLES TO MASS BUS AND READ GATE GOING TO TAG BUS

REV.	CHANGE NO.	BY.

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NOTE: FOLLOWING THE SETTING OF THE GO BIT, THIS SIGNAL ENABLES THE COMMAND SEQUENCER TO PROCEED WITH THE DATA SEQUENCE.

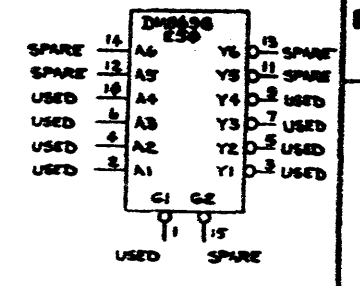
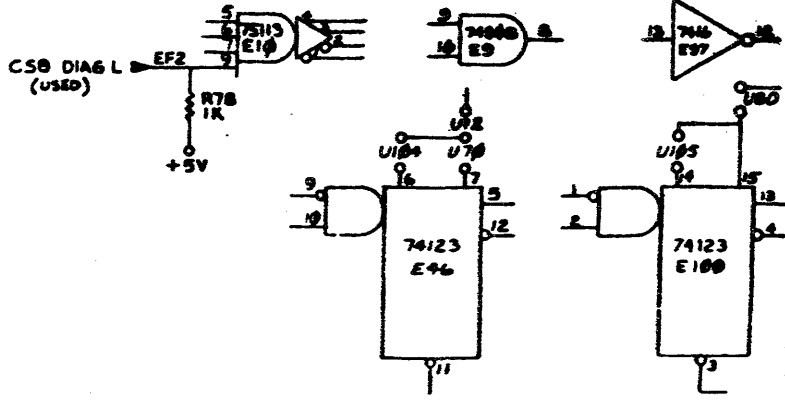
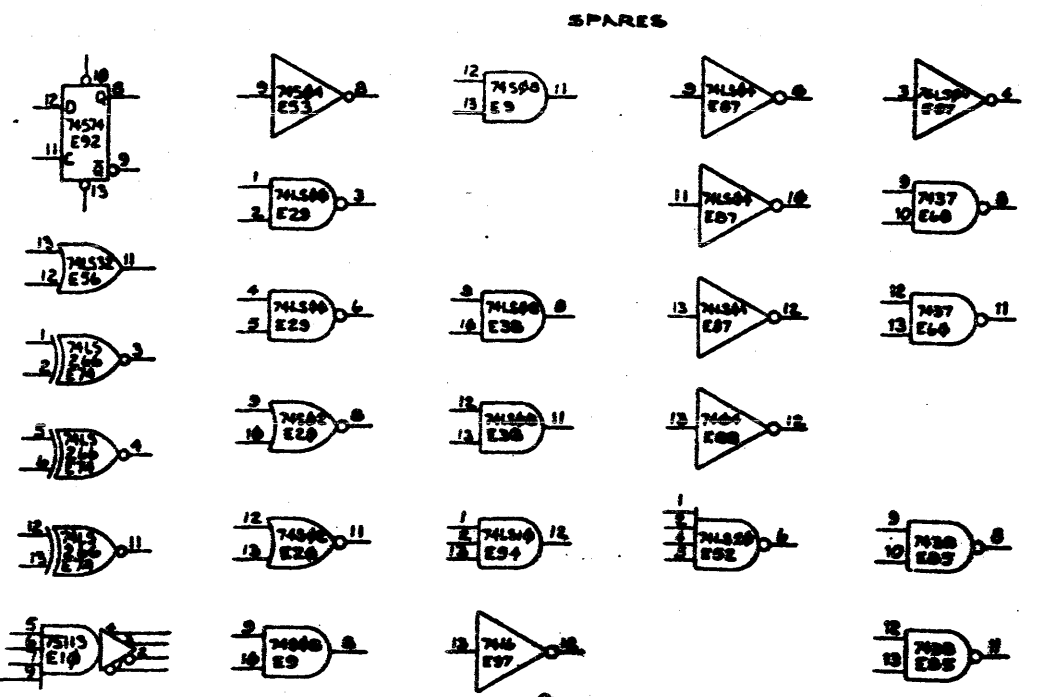
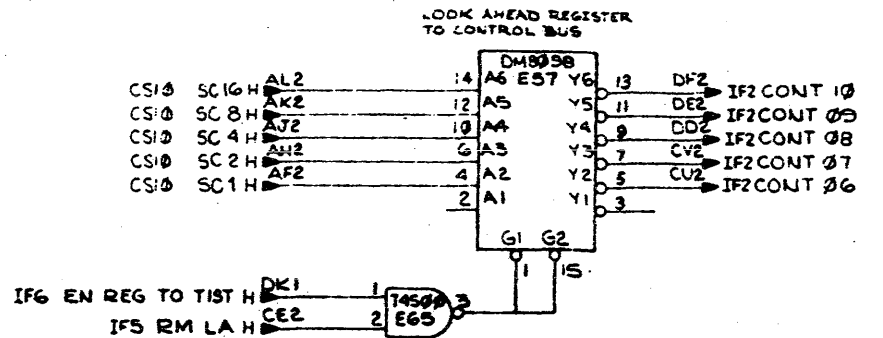
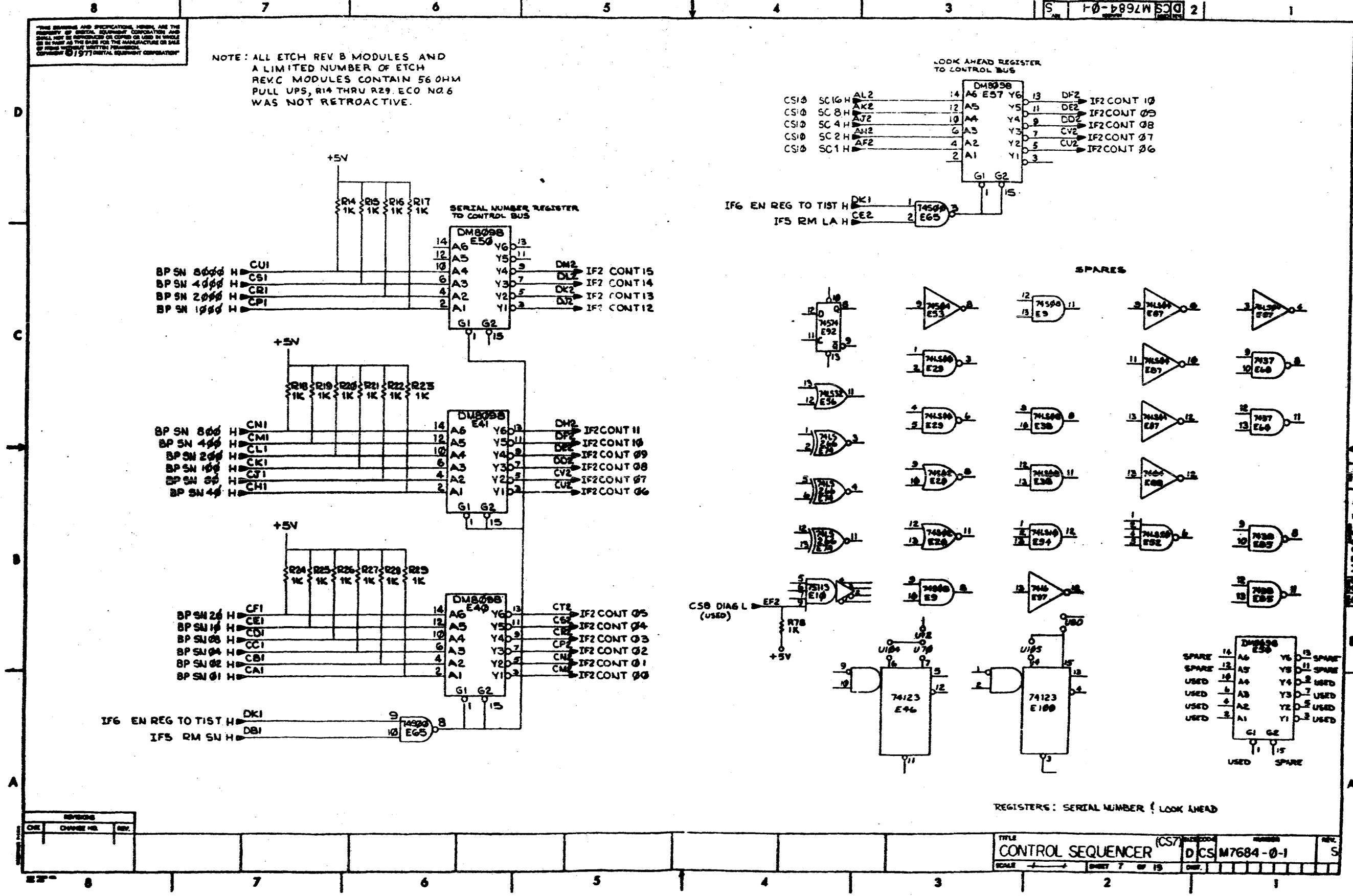
NOTE: COMMAND SEQUENCER TESTS THIS LINE AT THE END OF EACH SECTOR OF DATA TRANSFERRED TO DETERMINE WHETHER OR NOT TO STEP THRU A CYLINDER TAG SEQUENCE.

NOTE: COMMAND SEQUENCER TESTS THIS LINE AT THE END OF EACH SECTOR OF DATA TRANSFERRED TO DETERMINE WHETHER OR NOT TO STEP THRU A HEAD TAG SEQUENCE.

REV	CHG	CHG	NO	REV

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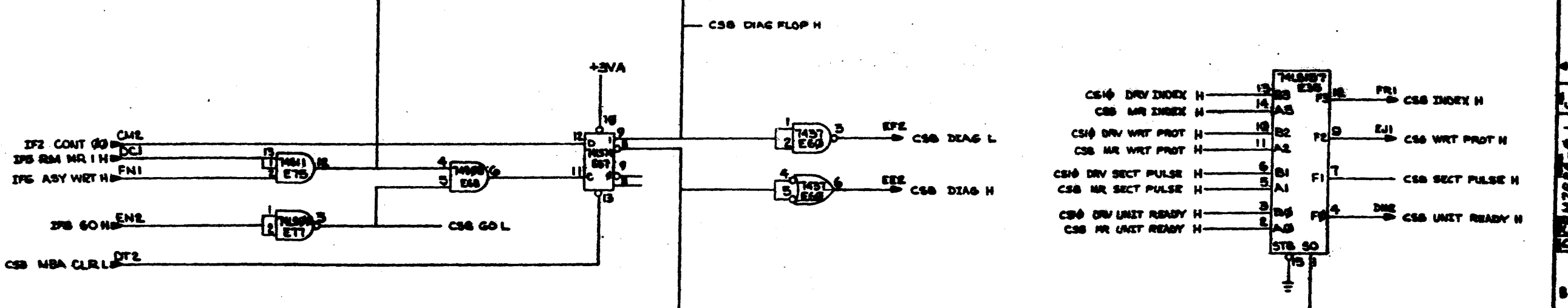
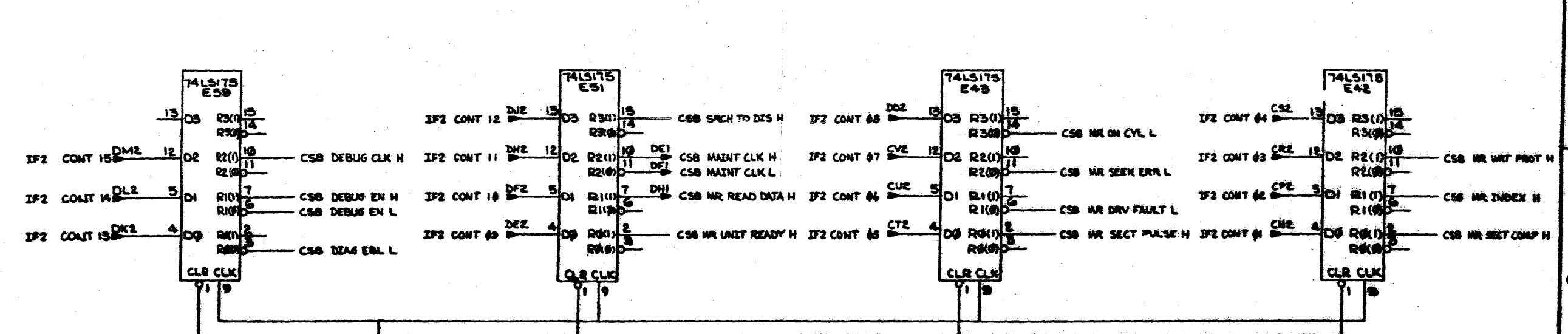
NOTE: ALL ETCH REV B MODULES AND A LIMITED NUMBER OF ETCH REV C MODULES CONTAIN 56 OHM PULL UPS, R14 THRU R29. ECO NO.6 WAS NOT RETROACTIVE.



REGISTERS: SERIAL NUMBER (LOOK AHEAD)

REV	DATE	BY

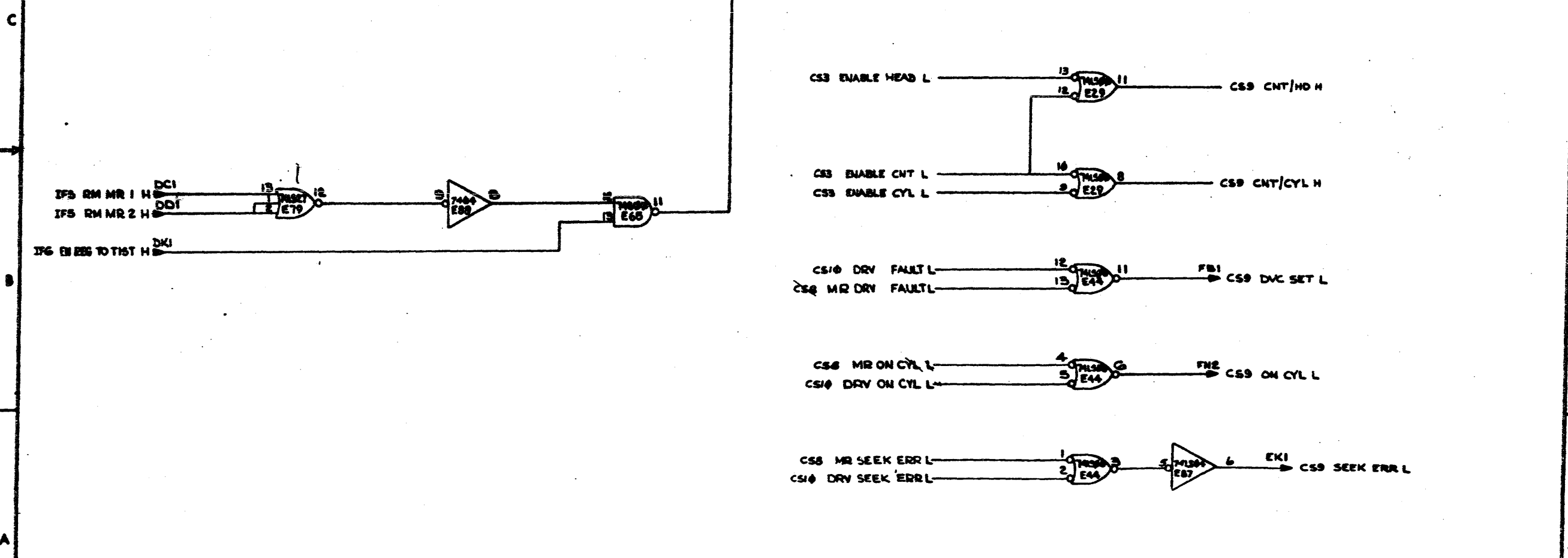
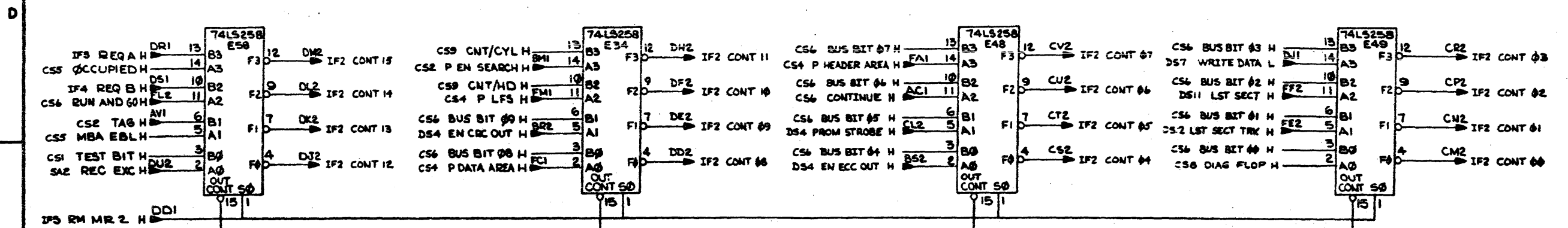
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- CS# DRV INDEX H — 13 B3 —> F1 — CSB INDEX H
- CS# MR INDEX H — 14 B4 —> F2 — CSB WRIT PROT H
- CS# DRV WRIT PROT H — 10 B2 —> F3 — CSB SECT PULSE H
- CS# MR WRIT PROT H — 11 B3 —> F4 — CSB UNIT READY H
- CS# DRV SECT PULSE H — 6 B1 —> F5 — CSB UNIT READY H
- CS# MR SECT PULSE H — 5 B0 —> F6 — CSB UNIT READY H
- CS# DRV UNIT READY H — 3 B4 —> F7 — CSB UNIT READY H
- CS# MR UNIT READY H — 2 B3 —> F8 — CSB UNIT READY H

REV.	CHANGED BY	DATE

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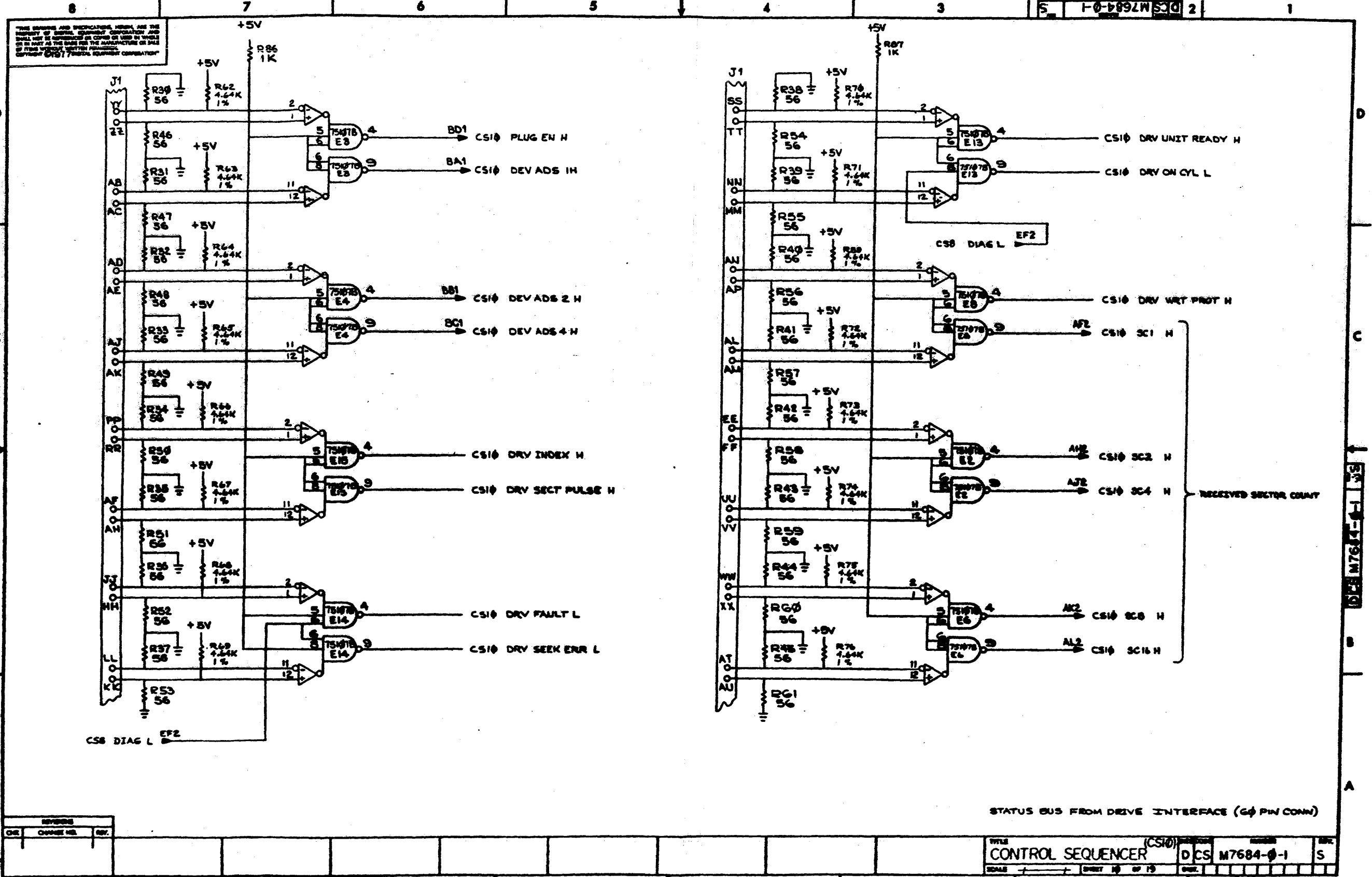


REVISIONS		
CHK	CHANGE NO.	REV.

(MR1 & MR2) MAINTENANCE REGISTERS (READ ONLY)

TITLE	DCS M7684-0-1	REV.	S
CONTROL SEQUENCER (CS9)			
SCALE	SHEET 9 OF 19	DATE	





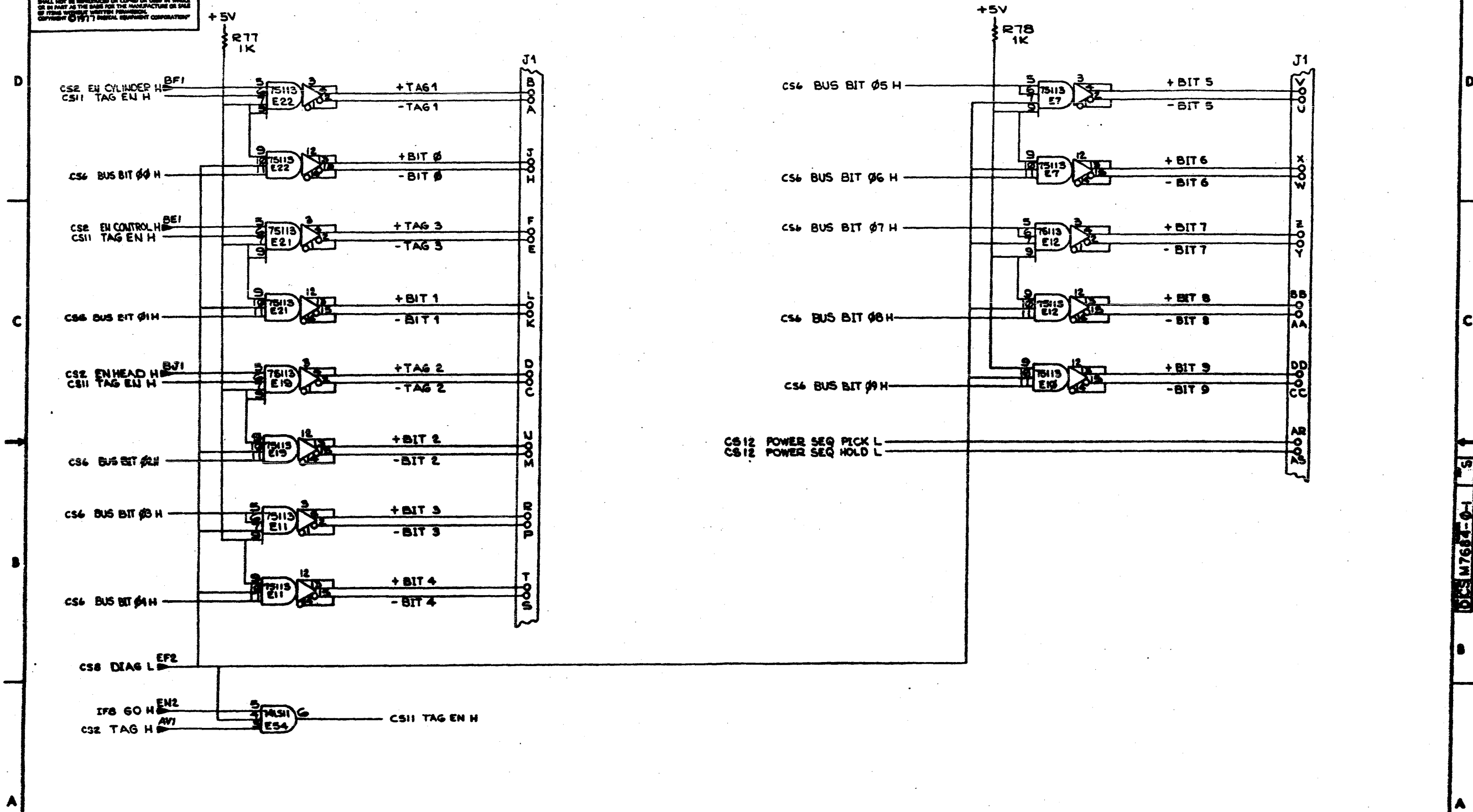
STATUS BUS FROM DRIVE INTERFACE (G<sub>1</sub> PIN CONN)

TITLE CONTROL SEQUENCER (CS10) DCS M7684-0-1 S

SCALE SHEET 10 OF 15

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DCS M7684-0-1 S 2



TAG BUS TO DRIVE INTERFACE (60 PIN CONN)

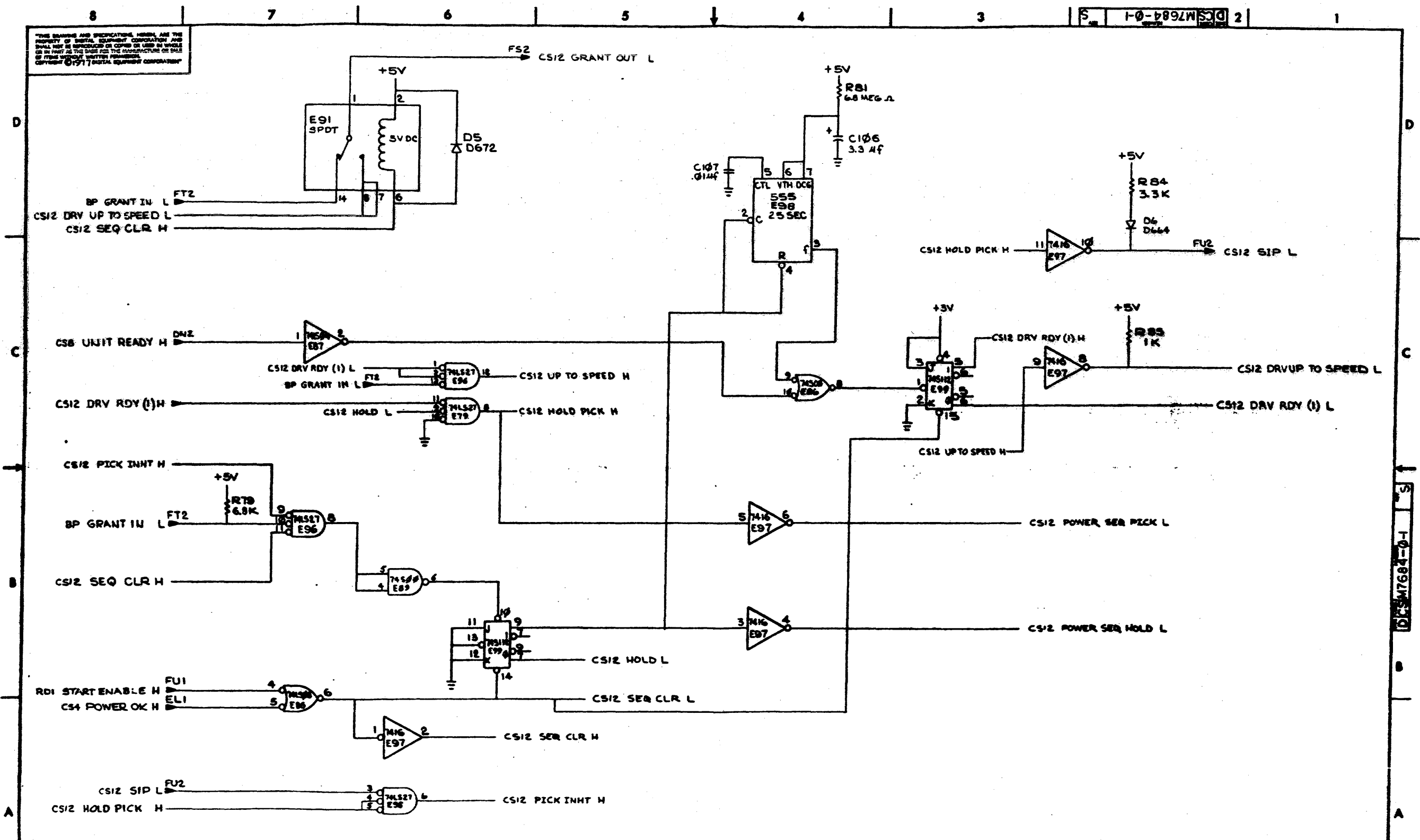
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CONTROL SEQUENCER (CS11)	DATE CODE	D CS M7684-0-1	REV.	S
SCALE	1	SHEET	11 OF 19	DATE	

8 7 6 5 4 3 2 1

DCS M7684-0-1 S

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REVISIONS		
CHK	CHANGE NO.	REV.

DCS M7684-0-1

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AAI CS6 SEEK REQUIRED H	BAI CS8 DEV ADS 1 H	CAI BP SN 01 H	DAI CS2 RD HDR DATA CMD H	EAI IF9 EXC ERR H	FAI CS4 P HEADER AREA H
ABI CS6 NEW TRACK REQ'D H	BAI CS8 DEV ADS 2 H	CBI BP SN 02 H	EBI IF5 RM SN H	FBI IF9 ABORT L	CS9 DVC SET L
ACI CS6 CONTINUE H	BCI CS8 DEV ADS 4 H	CCI BP SN 04 H	DCI IF5 RM WR 1 H	ECI SA2 RUN H	CS4 P DATA AREA H
ADI CS1 BRANCH ON TEST L	BDI CS8 PLUG EN H	DDI BP SN 08 H	DDI IF5 RM WR 2 H	EDI CS3 OPT SET L	CS4 P EN CRC/ECC H
AEI SPARE	BEI CS2 EN CONTROL H	DEI BP SN 10 H	DEI CS8 MAINT CLK H	EEL CS3 WLE SET L	CS4 P DATA EN SCLK H
AFI CS3 SET PULSE H	BFI CS2 EN CYLINDER H	DFI BP SN 20 H	DFI CS8 MAIN* CLK L	EFI IF9 OFFSET MODE H	CS4 LAST READ DATA L
AHI CS5 SYNC REC EN A H	BHI BP DC LO L	DHI BP SN 40 H	DHI CS8 MR READ DATA H	EHI SR PROM DIS L	CS4 P EN EBL H
AJI CS5 SYNC REC EN B H	BJI CS2 EN HEAD H	DJI BP SN 80 H	DJI DS7 WRITE DATA L	EJI CS8 WRT PROT H	CS5 READ GATE FAST H
AKI CS5 TRANSMIT EN A H	BKI (NOT USED) IF8 DECODE L	DKI BP SN 100 H	DKI IF6 EN REG TO TIST H	EKI CS9 SEEK ERR L	CS4 P READ GATE H
ALI CS5 TRANSMIT EN B H	BLI IF9 SEQ SKIP L	DLI BP SN 200 H	DLI SPARE	ELI CS4 POWER OK H	IF4 TEST BIT CLOCK H
AMI CS5 TRNSCEIVR EN A H	BMI CS2 P EN SEARCH H	DMI BP SN 400 H	DMI IF8 OCCUPIED L	EMI RDI -5V	CS4 P LFS H
ANI CS5 TRNSCEIVR EN B H	BNI CS5 SECTOR COMPARE H	CNI BP SN 800 H	CNI CS5 MBA EBL L	ENI IF8 OFF DIR H	IF6 ASY WRT H
API SPARE	BPI CS3 SECT/INDEX L	CPI BP SN 1000 H	CPI IF4 SEQ CLK H	EPI CS4 PRECLEAR CRC/ECC L	CS4 P EN CRC OUT L
ARI CS6 NEW TRACK REQD L	BRI DS11 TA 8 H	CRI BP SN 2000 H	CRI IF3 REQ A H	ERI CS5 READ GATE H	CS8 INDEX H
ASI CS1 SEQ CLK STROBE H	BSI DS11 TA 16 H	CSI BP SN 4000 H	CSI IF4 REQ B H	ESI SPARE	CS4 P EN ECC OUT H
ATI GND	BTI GND	CTI GND	DTI GND	ETI GND	GND
AUI CS3 PWR/INIT L	BUI IF3 PORT A ON H	CUI BP SN 8000 H	DUI CS5 EN ECC CLOCK L	EUI CS4 P EN LOAD SR H	RDI START ENABLE H
AVI CS2 TAG H	BVI IF4 PORT B ON H	CVI SPARE	DVI CS6 MB EXCEPTION L	EVI CS4 DS WRITE GATE H	SPARE

AA2 +5V	BA2 +5V	CA2 +5V	DA2 +5V	EA2 +5V	FA2 +5V
AB2 -15V	BB2 -15V	CB2 -15V	DB2 -15V	EB2 -15V	FB2 -15V
AC2 GND	BC2 GND	CC2 GND	DC2 GND	EC2 GND	FC2 GND
AD2 CS1 RESET H	BD2 DS12 DC 1 H	CD2 CS4 EN SYNC H	DD2 IF2 CONT 00	ED2 IF6 INIT A/B L	FD2 CS5 DTE SET L
AE2 CS1 BRANCH H	BE2 DS12 DC 2 H	CE2 IF5 RM LA H	DE2 IF2 CONT 09	EE2 CS8 DIAG H	FE2 DS12 LST SECT TRK H
AF2 CS10 SC 1 H	BF2 DS12 DC 4 H	CF2 IF8 FMT 16 H	DF2 IF2 CONT 10	EF2 CS8 DIAG L	FF2 DS11 LST SECT H
AH2 CS10 SC 2 H	BH2 DS12 DC 8 H	CH2 DS1 SYNC DET H	DH2 IF2 CONT 11	EH2 IF8 F0 H	FH2 IF11 LSC L
AJ2 CS10 SC 4 H	BJ2 DS12 DC 16 H	CJ2 DS4 WORD CLK H	DJ2 IF2 CONT 12	EJ2 IF8 F1 H	FJ2 CS2 FORMAT H
AK2 CS10 SC 8 H	BK2 DS12 DC 32 H	CK2 DS4 WORD CLK L	DK2 IF2 CONT 13	EK2 IF8 F2 H	FK2 CS4 P EN CRC L
AL2 CS10 SC 16 H	BL2 DS12 DC 64 H	CL2 DS4 PROM STROBE H	DL2 IF2 CONT 14	EL2 IF8 F3 H	FL2 CS6 RUN AND GO H
AM2 SPARE	BM2 DS12 DC 128 H	CM2 IF2 CONT 00	DM2 IF2 CONT 15	EM2 IF8 F4 H	FM2 CS2 LSC SET L
AN2 SPARE	BN2 DS12 DC 256 H	CN2 IF2 CONT 01	DN2 CS8 UNIT READY H	EN2 IF8 GO H	FN2 CS9 OPT CYL L
AP2 SPARE	BP2 DS12 DC 512 H	CP2 IF2 CONT 02	DP2 DS11 TA1 H	EP2 CS3 RESET GO L	FP2 CS2 EN EMC H
AR2 SPARE	BR2 DS4 EN CRC OUT H	CR2 IF2 CONT 03	DR2 DS11 TA2 H	ER2 DS11 SA 1 H	FR2 CS2 SET IVC L
AS2 CS4 BR RD TO WRT L	BS2 DS4 EN ECC OUT H	CS2 IF2 CONT 04	DS2 DS11 TA4 H	ES2 DS11 SA 2 H	FS2 CS12 GRANT OUT L
AT2 CS4 P WRITE GATE H	BT2 CS4 READ HEADER H	CT2 IF2 CONT 05	DT2 CS3 *PA CLR L	ET2 DS11 SA 4 H	FT2 BP GRANT IN L
AU2 DS10 EN CORRECT CLK L	BU2 CS2 P SET ATA L	CU2 IF2 CONT 06	DU2 SA2 REC EXC H	EU2 DS11 SA 8 H	FU2 CS12 SIP L
AV2 CS4 BRANCH L	BV2 BP PROM GROUND	CV2 IF2 CONT 07	DV2 CS5 EN CRC CLOCK L	EV2 DS11 SA 16 H	FV2 DS4 ECC WRD CNT INH L

REVISIONS		
CHK	CHANGE NO.	REV.

I/O SIGNAL LIST

TITLE	(CS 13)	REVISION	REV.
CONTROL SEQUENCER	DCS	M7684-0-1	5
SCALE	SHEET 13 OF 19	DATE	

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DEC PART NUMBER 21-1501  
LEFT COLUMN OF BIN DATA IS MSB(PW/70)IC

ORIGINATOR: IANM BELLETIERE  
DATE ORIGINATED: 5-3-77

BINARY DATA "1" = HIGH  
BINARY DATA "0" = LOW

SHEET 1 OF 4

DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT
LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC
0 000 000	000 00 00000110	32 020 000	000 00 00000110	64 040 100	000 00 00000110	96 060 100	000 00 00000110
1 001 001	000 00 00000110	33 021 001	000 00 00000110	65 041 101	000 00 00000110	97 061 101	000 00 00000110
2 002 002	000 00 00000110	34 022 002	000 00 00000110	66 042 102	000 00 00000110	98 062 102	000 00 00000110
3 003 003	000 00 00000110	35 023 003	000 00 00000110	67 043 103	000 00 00000110	99 063 103	000 00 00000110
4 004 004	000 00 00000110	36 024 004	000 00 00000110	68 044 104	000 00 00000110	100 064 104	000 00 00000110
5 005 005	000 00 00000110	37 025 005	000 00 00000110	69 045 105	000 00 00000110	101 065 105	000 00 00000110
6 006 006	000 00 00000110	38 026 006	000 00 00000110	70 046 106	000 00 00000110	102 066 106	000 00 00000110
7 007 007	000 00 00000110	39 027 007	000 00 00000110	71 047 107	000 00 00000110	103 067 107	000 00 00000110
8 008 008	000 00 00000110	40 028 008	000 00 00000110	72 048 108	000 00 00000110	104 068 108	000 00 00000110
9 009 009	000 00 00000110	41 029 009	000 00 00000110	73 049 109	000 00 00000110	105 069 109	000 00 00000110
10 010 010	000 00 00000110	42 030 010	000 00 00000110	74 050 110	000 00 00000110	106 070 110	000 00 00000110
11 011 011	000 00 00000110	43 031 011	000 00 00000110	75 051 111	000 00 00000110	107 071 111	000 00 00000110
12 012 012	000 00 00000110	44 032 012	000 00 00000110	76 052 112	000 00 00000110	108 072 112	000 00 00000110
13 013 013	000 00 00000110	45 033 013	000 00 00000110	77 053 113	000 00 00000110	109 073 113	000 00 00000110
14 014 014	000 00 00000110	46 034 014	000 00 00000110	78 054 114	000 00 00000110	110 074 114	000 00 00000110
15 015 015	000 00 00000110	47 035 015	000 00 00000110	79 055 115	000 00 00000110	111 075 115	000 00 00000110
16 016 016	000 00 00000110	48 036 016	000 00 00000110	80 056 116	000 00 00000110	112 076 116	000 00 00000110
17 017 017	000 00 00000110	49 037 017	000 00 00000110	81 057 117	000 00 00000110	113 077 117	000 00 00000110
18 018 018	000 00 00000110	50 038 018	000 00 00000110	82 058 118	000 00 00000110	114 078 118	000 00 00000110
19 019 019	000 00 00000110	51 039 019	000 00 00000110	83 059 119	000 00 00000110	115 079 119	000 00 00000110
20 020 020	000 00 00000110	52 040 020	000 00 00000110	84 060 120	000 00 00000110	116 080 120	000 00 00000110
21 021 021	000 00 00000110	53 041 021	000 00 00000110	85 061 121	000 00 00000110	117 081 121	000 00 00000110
22 022 022	000 00 00000110	54 042 022	000 00 00000110	86 062 122	000 00 00000110	118 082 122	000 00 00000110
23 023 023	000 00 00000110	55 043 023	000 00 00000110	87 063 123	000 00 00000110	119 083 123	000 00 00000110
24 024 024	000 00 00000110	56 044 024	000 00 00000110	88 064 124	000 00 00000110	120 084 124	000 00 00000110
25 025 025	000 00 00000110	57 045 025	000 00 00000110	89 065 125	000 00 00000110	121 085 125	000 00 00000110
26 026 026	000 00 00000110	58 046 026	000 00 00000110	90 066 126	000 00 00000110	122 086 126	000 00 00000110
27 027 027	000 00 00000110	59 047 027	000 00 00000110	91 067 127	000 00 00000110	123 087 127	000 00 00000110
28 028 028	000 00 00000110	60 048 028	000 00 00000110	92 068 128	000 00 00000110	124 088 128	000 00 00000110
29 029 029	000 00 00000110	61 049 029	000 00 00000110	93 069 129	000 00 00000110	125 089 129	000 00 00000110
30 030 030	000 00 00000110	62 050 030	000 00 00000110	94 070 130	000 00 00000110	126 090 130	000 00 00000110
31 031 031	000 00 00000110	63 051 031	000 00 00000110	95 071 131	000 00 00000110	127 091 131	000 00 00000110

DEC PART NUMBER 21-1501  
LEFT COLUMN OF BIN DATA IS MSB(PW/70)IC

ORIGINATOR: IANM BELLETIERE  
DATE ORIGINATED: 5-3-77

BINARY DATA "1" = HIGH  
BINARY DATA "0" = LOW

SHEET 2 OF 4

DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT	DEC HEX OCT
LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC	LOC LOC LOC
256 100 000	270 96 10010110	288 120 000	270 96 10010110	312 144 000	270 96 10010110	324 168 000	270 96 10010110
257 101 001	270 96 10010110	289 121 001	270 96 10010110	313 145 001	270 96 10010110	325 169 001	270 96 10010110
258 102 002	270 96 10010110	290 122 002	270 96 10010110	314 146 002	270 96 10010110	326 170 002	270 96 10010110
259 103 003	270 96 10010110	291 123 003	270 96 10010110	315 147 003	270 96 10010110	327 171 003	270 96 10010110
260 104 004	270 96 10010110	292 124 004	270 96 10010110	316 148 004	270 96 10010110	328 172 004	270 96 10010110
261 105 005	270 96 10010110	293 125 005	270 96 10010110	317 149 005	270 96 10010110	329 173 005	270 96 10010110
262 106 006	270 96 10010110	294 126 006	270 96 10010110	318 150 006	270 96 10010110	330 174 006	270 96 10010110
263 107 007	270 96 10010110	295 127 007	270 96 10010110	319 151 007	270 96 10010110	331 175 007	270 96 10010110
264 108 008	270 96 10010110	296 128 008	270 96 10010110	320 152 008	270 96 10010110	332 176 008	270 96 10010110
265 109 009	270 96 10010110	297 129 009	270 96 10010110	321 153 009	270 96 10010110	333 177 009	270 96 10010110
266 110 010	270 96 10010110	298 130 010	270 96 10010110	322 154 010	270 96 10010110	334 178 010	270 96 10010110
267 111 011	270 96 10010110	299 131 011	270 96 10010110	323 155 011	270 96 10010110	335 179 011	270 96 10010110
268 112 012	270 96 10010110	300 132 012	270 96 10010110	324 156 012	270 96 10010110	336 180 012	270 96 10010110
269 113 013	270 96 10010110	301 133 013	270 96 10010110	325 157 013	270 96 10010110	337 181 013	270 96 10010110
270 114 014	270 96 10010110	302 134 014	270 96 10010110	326 158 014	270 96 10010110	338 182 014	270 96 10010110
271 115 015	270 96 10010110	303 135 015	270 96 10010110	327 159 015	270 96 10010110	339 183 015	270 96 10010110
272 116 016	270 96 10010110	304 136 016	270 96 10010110	328 160 016	270 96 10010110	340 184 016	270 96 10010110
273 117 017	270 96 10010110	305 137 017	270 96 10010110	329 161 017	270 96 10010110	341 185 017	270 96 10010110
274 118 018	270 96 10010110	306 138 018	270 96 10010110	330 162 018	270 96 10010110	342 186 018	270 96 10010110
275 119 019	270 96 10010110	307 139 019	270 96 10010110	331 163 019	270 96 10010110	343 187 019	270 96 10010110
276 120 020	270 96 10010110	308 140 020	270 96 10010110	332 164 020	270 96 10010110	344 188 020	270 96 10010110
277 121 021	270 96 10010110	309 141 021	270 96 10010110	333 165 021	270 96 10010110	345 189 021	270 96 10010110
278 122 022	270 96 10010110	310 142 022	270 96 10010110	334 166 022	270 96 10010110	346 190 022	270 96 10010110
279 123 023	270 96 10010110	311 143 023	270 96 10010110	335 167 023	270 96 10010110	347 191 023	270 96 10010110
280 124 024	270 96 10010110	312 144 024	270 96 10010110	336 168 024	270 96 10010110	348 192 024	270 96 10010110
281 125 025	270 96 10010110	313 145 025	270 96 10010110	337 169 025	270 96 10010110	349 193 025	270 96 10010110
282 126 026	270 96 10010110	314 146 026	270 96 10010110	338 170 026	270 96 10010110	350 194 026	270 96 10010110
283 127 027	270 96 10010110	315 147 027	270 96 10010110	339 171 027	270 96 10010110	351 195 027	270 96 10010110
284 128 028	270 96 10010110	316 148 028	270 96 10010110	340 172 028	270 96 10010110	352 196 028	270 96 10010110
285 129 029	270 96 10010110	317 149 029	270 96 10010110	341 173 029	270 96 10010110	353 197 029	270 96 10010110
286 130 030	270 96 10010110	318 150 030	270 96 10010110	342 174 030	270 96 10010110	354 198 030	270 96 10010110
287 131 031	270 96 10010110	319 151 031	270 96 10010110	343 175 031	270 96 10010110	355 199 031	270 96 10010110
288 132 032	270 96 10010110	320 152 032	270 96 10010110	344 176 032	270 96 10010110	356 200 032	270 96 10010110
289 133 033	270 96 10010110	321 153 033	270 96 10010110	345 177 033	270 96 10010110	357 201 033	270 96 10010110
290 134 034	270 96 10010110	322 154 034	270 96 10010110	346 178 034	270 96 10010110	358 202 034	270 96 10010110
291 135 035	270 96 10010110	323 155 035	270 96 10010110	347 179 035	270 96 10010110	359 203 035	270 96 10010110
292 136 036	270 96 10010110	324 156 036	270 96 10010110	348 180 036	270 96 10010110	360 204 036	270 96 10010110
293 137 037	270 96 10010110	325 157 037	270 96 10010110	349 181 037	270 96 10010110	361 205 037	270 96 10010110
294 138 038	270 96 10010110	326 158 038	270 96 10010110	350 182 038	270 96 10010110	362 206 038	270 96 10010110
295 139 039	270 96 10010110	327 159 039	270 96 10010110	351 183 039	270 96 10010110	363 207 039	270 96 10010110
296 140 040	270 96 10010110	328 160 040	270 96 10010110	352 184 040	270 96 10010110	364 208 040	270 96 10010110
297 141 041	270 96 10010110	329 161 041	270 96 10010110	353 185 041	270 96 10010110	365 209 041	270 96 10010110
298 142 042	270 96 10010110	330 162 042	270 96 10010110	354 186 042	270 96 10010110	366 210 042	270 96 10010110
299 143 043	270 96 10010110	331 163 043	270 96 10010110	355 187 043	270 96 10010110	367 211 043	270 96 10010110
300 144 044	270 96 10010110	332 164 044	270 96 10010110	356 188 044	270 96 10010110	368 212 044	270 96 10010110
301							

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DEC PART NUMBER: 23-01001 ORIGINAL: IRENE BELLETIERE DATE ORIGINATED: 5-4-77 SHEET 1 OF 6. DEC PART NUMBER: 23-01001 ORIGINAL: IRENE BELLETIERE DATE ORIGINATED: 5-4-77 SHEET 2 OF 6. Tables with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT, etc.

DEC PART NUMBER: 23-01001 ORIGINAL: IRENE BELLETIERE DATE ORIGINATED: 5-4-77 SHEET 3 OF 6. DEC PART NUMBER: 23-01001 ORIGINAL: IRENE BELLETIERE DATE ORIGINATED: 5-4-77 SHEET 4 OF 6. Tables with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT, etc.

COMMON READ/WRITE CONTROLS FROM E 72 (CS4) TITLE: 23-01001

REVISIONS table with columns: CHK, CHANGE NO., REV.

CONTROL SEQUENCER (CS13) table with columns: SCALE, SHEET, OF, PART, NUMBER, REV.

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DEC PART NUMBER 22-01700 ORIGINATOR: IRENE PALLATTIHER DATE ORIGINATED: 3-4-77 SHEET 1 OF 4. Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of hex/oct/bin values.

DEC PART NUMBER 22-01700 ORIGINATOR: IRENE PALLATTIHER DATE ORIGINATED: 3-4-77 SHEET 3 OF 4. Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of hex/oct/bin values.

DEC PART NUMBER 22-01700 ORIGINATOR: IRENE PALLATTIHER DATE ORIGINATED: 3-4-77 SHEET 2 OF 4. Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of hex/oct/bin values.

DEC PART NUMBER 22-01700 ORIGINATOR: IRENE PALLATTIHER DATE ORIGINATED: 3-4-77 SHEET 4 OF 4. Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of hex/oct/bin values.

WRITE CONTROL FROM # E30 (CS4)  
BIT 8  
PULL/PUSH PATTERN NONE  
22-01700

REVISIONS table with columns: REV, CHANGE NO., REV. TITLE: CONTROL SEQUENCER (CS16) NUMBER: DCS M7684-0-1 SCALE: SHEET 16 OF 19

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DEC PART NUMBER: 23-00000 OPERATIONS: IPECA BELLEVILLE DATE ORIGINATED: 5-2-77 SHEET 1 OF 2

Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of data for control sequencer.

DEC PART NUMBER: 23-00000 OPERATIONS: IPECA BELLEVILLE DATE ORIGINATED: 5-2-77 SHEET 2 OF 2

Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of data for control sequencer.

DEC PART NUMBER: 23-00000 OPERATIONS: IPECA BELLEVILLE DATE ORIGINATED: 5-2-77 SHEET 3 OF 2

Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of data for control sequencer.

DEC PART NUMBER: 23-00000 OPERATIONS: IPECA BELLEVILLE DATE ORIGINATED: 5-2-77 SHEET 4 OF 2

Table with columns: DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN, DEC HEX OCT, OCT HEX BIN. Rows of data for control sequencer.

COMMON SEQUENCER MISCELLANEOUS AT E47(C52)

TAG CONTROLS AT E39(C52)

Table with columns: REV, CHANGE NO, REV, TITLE, SHEET, OF, NUMBER, REV. Contains title 'CONTROL SEQUENCER' and sheet number '17 OF 19'.





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DIC PART NUMBER: 23-204A1      ORIGINATOR: TRW BELLEFONNE      READY DATA "1" = HIGH      SHEET 1 OF 1  
 LEFT COLUMN OF BIN DATA IS HIGH (PIN 9 OF 2)      DATE ORIGINATED: 4-29-57      READY DATA "0" = LOW

DIC #	HEX	OCT	BIN	DIC #	HEX	OCT	BIN	DIC #	HEX	OCT	BIN	DIC #	HEX	OCT	BIN
LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC
0	00	00	017	00	00001111										
1	01	01	013	00	00001011										
2	02	02	013	00	00001001										
3	03	03	013	00	00001001										
4	04	04	017	00	00001111										
5	05	05	013	00	00001011										
6	06	06	013	00	00001011										
7	07	07	013	00	00001011										
8	08	10	017	00	00001111										
9	09	11	017	00	00001111										
10	0A	12	013	00	00001011										
11	0B	13	013	00	00001011										
12	0C	14	013	00	00001011										
13	0D	15	013	00	00001011										
14	0E	16	013	00	00001011										
15	0F	17	013	00	00001011										
16	10	20	013	00	00001011										
17	11	21	013	00	00001011										
18	12	22	013	00	00001011										
19	13	23	013	00	00001011										
20	14	24	002	01	00000011										
21	15	25	002	01	00000011										
22	16	26	013	00	00001011										
23	17	27	013	00	00001011										
24	18	28	002	01	00000011										
25	19	29	002	01	00000011										
26	1A	2A	013	00	00001011										
27	1B	2B	013	00	00001011										
28	1C	2C	002	01	00000011										
29	1D	2D	001	01	00000001										
30	1E	2E	013	00	00001011										
31	1F	2F	013	00	00001011										

COMMAND DECODE AT E45 (CS2)

DIGITAL EQUIPMENT CORPORATION MAYLAND, MASSACHUSETTS	
TITLE	20 X 0
	20X/2000 PATTERN 200C
	23-204A1

REVISIONS		
CHK	CHANGE NO.	REV.

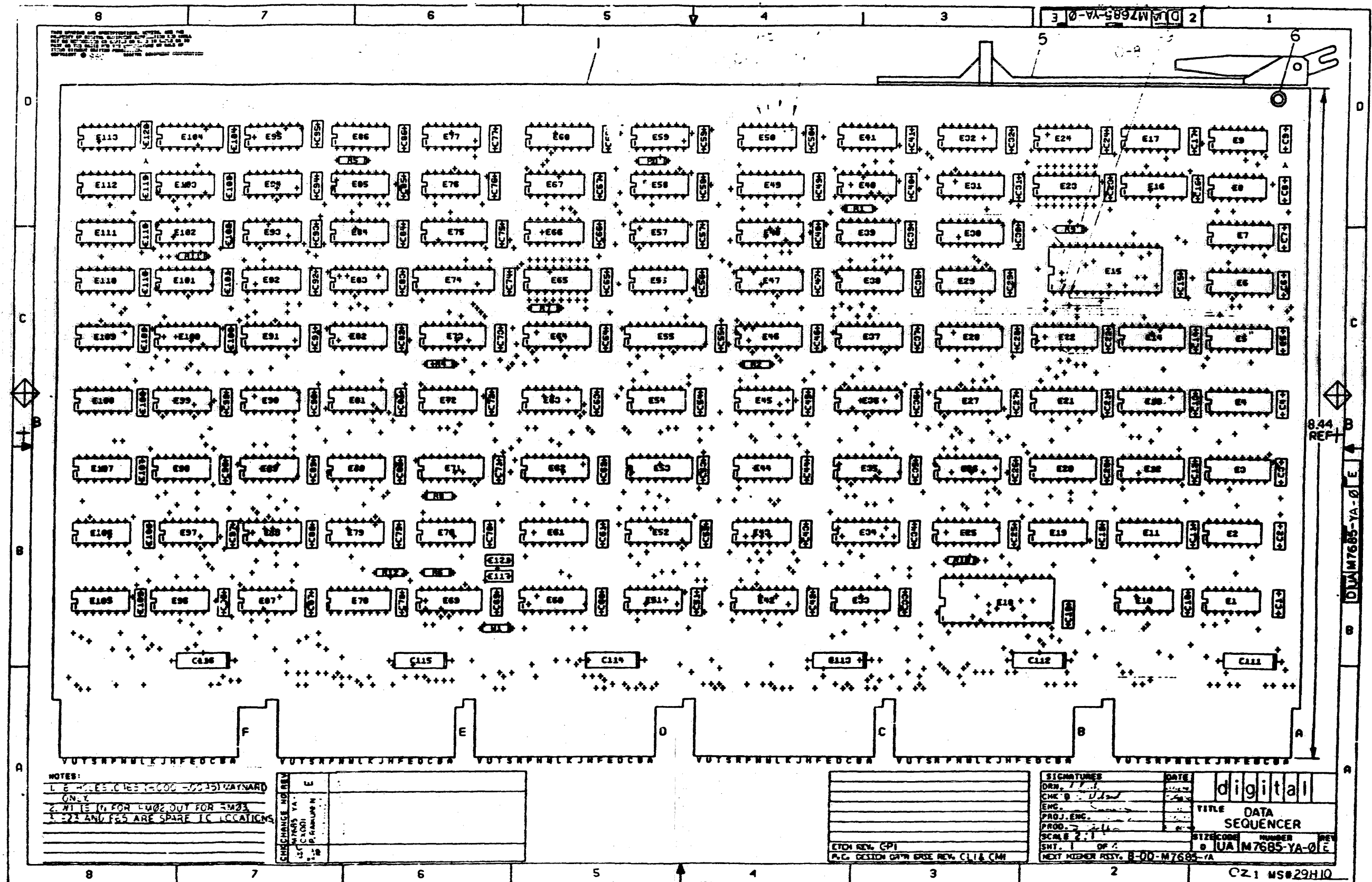
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	D-MD-5012484-0-0	5012484-00	M7684	1	
2		1012784-00	.047 MFD 50V +80-20% CER	58	C1-C55,C58-C60
3		1005306-00	*** THIS ITEM IS NOT USED ***	-	
4		1005334-00	3.3MFD 20V 10% S.TANT	3	C103,C106,C115
5		1009964-00	.68 MFD 35V 10% S.TANT	1	C102
6		1000042-00	1000.0 MMF 100V 5X200PPM MICA	2	C56,C57
7		1001631-00	390.0 MMF 100V 5X200PPM MICA	1	C100
8		1100114-00	D 664 QS\75PCB PIV= 25V SP	4	D1,D2,D4,D6
9		1105275-00	D 672 TR= 15NS PIV= 60V SI	2	D3,D5
10		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
11		1302602-00	56.0 .25 W 5.0 % CC	32	R30-R61
12		1300365-00	1.0 K .25 W 5.0 % CC	23	R11,R14-R29,R77,R78,R85-R88
13		1302388-00	2.0 K .25 W 5.0 % CC	10	R2-R6,R10,R90,R93,R94,R80
14		1302394-00	30.0 K .25 W 5.0 % CC	4	R7,R8,R91,R92
15		1313349-00	33.0 K .25 W 5.0 % CC	1	R1
16		1305346-00	27.0 K .25 W 5.0 % CC	1	R13
17		1304856-00	4.64 K .25 W 1.0 % RN55D-F10	16	R62-R76,R89
18		1301423-00	6.80 K .25 W 5.0 % CC	1	R79
19		1302666-00	*** THIS ITEM IS NOT USED ***	-	
20		1300439-00	3.30 K .25 W 5.0 % CC	1	R84
21		9000024-01	EYELET,ROLL FLANGE .1210DX .192	12	
22		2300888-00	BB-01	1	E47
23		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	3	E1,E60,E83
24		1911219-00	7438 NAND GATE-QUAD 2IN,B	1	E85
25		1909928-00	7416 INVERTER GATE-HEX 1I	1	E97
26		1910224-00	DEC 7485 COMPARATOR-4BIT	1	E73
27		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIS	4	E25,E46,E71,E100
28		1910153-00	DEC 74150 MUX 1 OF 16	1	E64
29		1910268-01	DEC 75107B-01 RECEIVER,LINE,DUA	8	E2,E3,E4,E6,E8,E13,E14,E15
30		1911341-00	75113 DRIVER,LINE,DUAL,MA	7	E7,E10,E11,E12,E19,E21,E22

REVISION HISTORY		BASIC PART NO: M7684		DRN: JVV	DATE: 13-FEB-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: RSW	DATE: 13-FEB-78	TITLE PARTS LIST			
IB	00008	K	SECTION.VARIATION INDEX		DATE: 13-FEB-78				
KIT	00009	L	[A] 00			CONTROL SEQUENCER			
CL	00010	M	[B]						
--	00011	N	[C]	DES.ENG: I.BELLETTIER	DATE: 13-FEB-78				
BHF	HL012	P	[D]			DOCUMENT NUMBER			
WH	M7684-CX013	R	[E]						
WH	M7684-CX014	S	[F]	RESP.ENG.: I.BELLETTIERE	DATE: 13-FEB-78				
WH			[H]			SIZE	CODE	NUMBER	REV
			[J]						
			[K]	MFG.ENG.: J.MILLER	DATE: 13-FEB-78	K	PL	M7684-0-DBP	S
			[L]						
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[N]	D-UA-M7684-0-0	B-DD-M7684-0	Z1028S.PLS		27	

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31	1911527-00	8097 BUFFER GATE-HEX 2INP	5	E17,E18,E26,E27,E28
32	32	1914087-00	8098 BUFFER GATE-HEX 2IN,	4	E40,E41,E50,E57
33	33	1910532-00	74S00 NAND GATE-QUAD 2IN	2	E65,E89
34	34	1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	E20
35	35	1910534-00	74S04 INVERTER GATE-HEX 1I	1	E53
36	36	1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	E9,E68
37	37	1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E75
38	38	1911712-00	74S51 AND-OR GATE-INVERT D	1	E66
39	39	1910544-00	74S74 FF-D DUAL,EDGE TRIGG	5	E24,E70,E82,E92,E93
40	40	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	3	E23,E61,E99
41	41	1910548-00	74S157 MUX 1 OF 2 (QUAD)	1	E37
42	42	1914082-00	74S163 COUNTER,SYNCH UP/DOW	5	E31,E32,E80,E101,E102
43	43	1913340-00	74S32 OR GATE-QUAD 2IN	1	E84
44	44	1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E35
45	45	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	3	E5,E29,E77
46	46	1912803-00	74LS04 INVERTER GATE,HEX	2	E30,E87
47	47	1912805-00	LS08 AND GATE-QUAD 2IN,PO	5	E38,E44,E55,E76,E86
48	48	1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E94
49	49	1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E54
50	50	1912810-00	LS20 NAND GATE-DUAL 4IN	1	E52
51	51	1912813-00	LS27 NOR GATE-TRIPLE 3IN	2	E79,E96
52	52	1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E56
53	53	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	6	E36,E62,E63,E67,E69,E78
54	54	1912853-00	LS175 FF-D QUAD	4	E42,E43,E51,E59
55	55	1911944-00	555CN TIMER,FUNCT.BLOCK	1	E98
56	56	23017D1-00	D1-02	1	E90
57	60	1912859-00	LS258 MUX 1 OF 2 (DUAL),	4	E34,E48,E49,E58
58	58	1912862-00	LS266 X-NOR GATE-QUAD,OPN,	1	E74
59	59	23022B8-00	B8-01	1	E16
60	60	23016D1-00	D1-02	1	E72
61	61	23204A1-00	A1-03,A1-04,A1-05	1	E45
62	62	1209941-11	*** THIS ITEM IS NOT USED ***	-	
63	63	23015D1-00	D1-02	1	E81
64	64	1909686-00	7404 INVERTER GATE-HEX 1I	1	E88
65	65	1214224-00	RLY,REED, 15V COIL,SPDT	1	E91
66	66	9105740-55	*** THIS ITEM IS NOT USED ***	-	
67	67	9107256-11	*** THIS ITEM IS NOT USED ***	-	
68	68	23020B8-00	B8-01	1	E33
69	69	23023B8-00	B8-01	1	E39
70	70	1214413-00	RLY,REED, 5V COIL,SPST	1	E95
71	71	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
72	72	1005965-00	*** THIS ITEM IS NOT USED ***	-	
73	73	1001610-00	.01 MFD 50V +80-20% Z5U CER	1	C107
74	74	1017472-00	10 MFD 35V +50-10% AL EL	8	C101,C108-C114
75	75	1312934-00	6.80 M .25 W 5.0 Z CC	1	R81
76	76	1216832-04	HEADER 60POS WITH LATCHES	1	J1

D	I	B	I	T	A	L	TITLE	CONTROL SEQUENCER	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M7684-0-DBP	S



NOTES:  
 1. E-FILES C1657-000-0001 (WAYNARD)  
 ONLY  
 2. WRITE IN FOR LM02 OUT FOR 4M03  
 3. E22 AND F05 ARE SPARE IC LOCATIONS

CHANGE NO.	DATE	BY

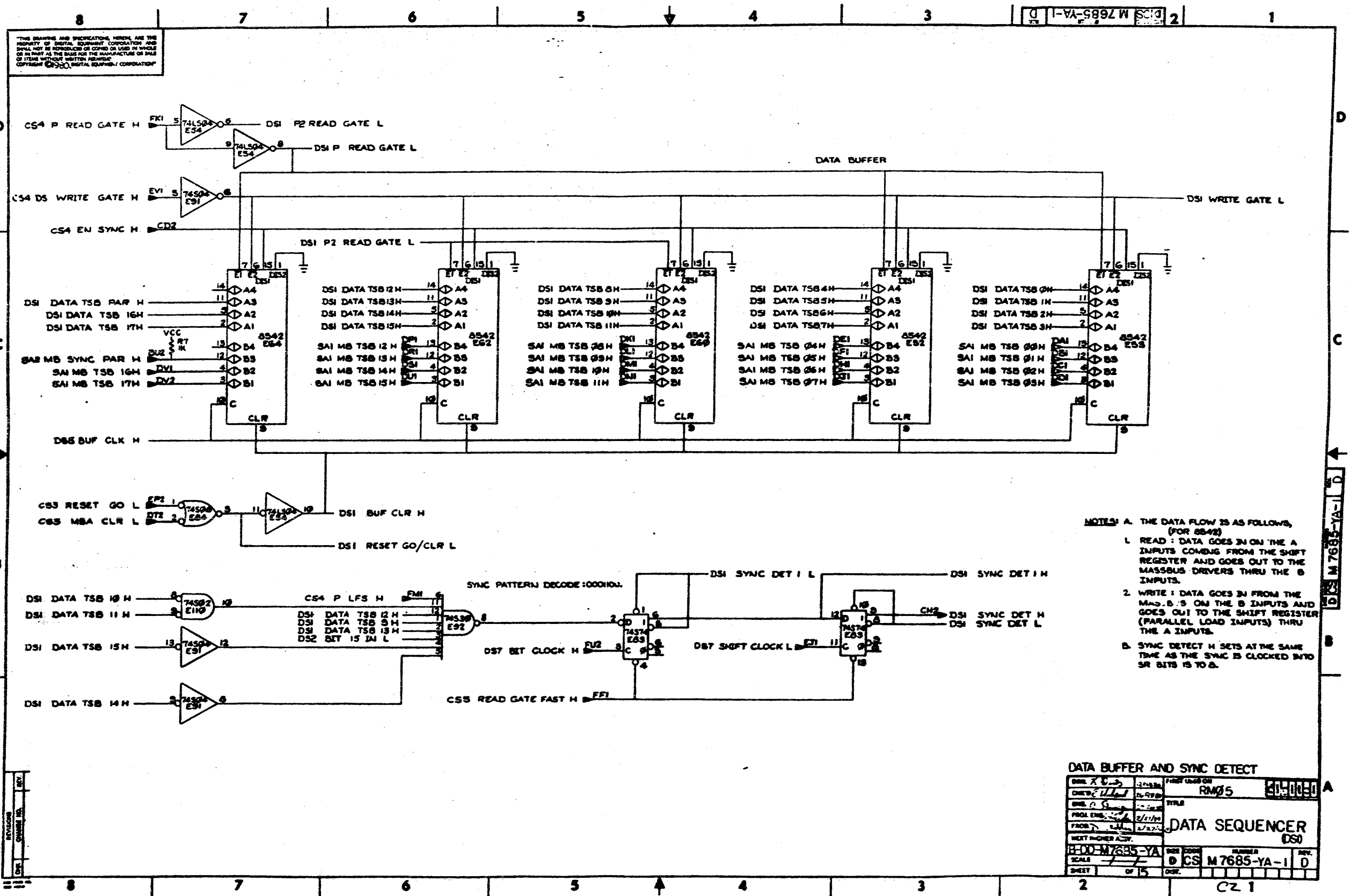
ETCH REV. CPI
P.C. DESIGN DATA BRD REV. C11 & C11

SIGNATURES	DATE
DRN. <i>[Signature]</i>	<i>[Date]</i>
CHK. <i>[Signature]</i>	<i>[Date]</i>
ENG. <i>[Signature]</i>	<i>[Date]</i>
PROJ. ENG. <i>[Signature]</i>	<i>[Date]</i>
PROD. <i>[Signature]</i>	<i>[Date]</i>
SCALE 2:1	
SHT. 1 OF 2	
NEXT MEMBER ASSY. B-00-M7685-7A	

digital  
 TITLE DATA SEQUENCER  
 SIZE CODE NUMBER REV  
 0 UA M7685-YA-01E  
 C-2.1 MS#29H10

8.44 REF

0 UA M7685-YA-01E



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- NOTES: A. THE DATA FLOW IS AS FOLLOWS, (FOR 8542)
1. READ: DATA GOES IN ON THE A INPUTS COMING FROM THE SHIFT REGISTER AND GOES OUT TO THE MASSBUS DRIVERS THRU THE B INPUTS.
  2. WRITE: DATA GOES IN FROM THE MASSBUS ON THE B INPUTS AND GOES OUT TO THE SHIFT REGISTER (PARALLEL LOAD INPUTS) THRU THE A INPUTS.
  3. SYNC DETECT H SETS AT THE SAME TIME AS THE SYNC IS CLOCKED INTO SR BITS 15 TO 8.

DATA BUFFER AND SYNC DETECT			
DATE: 11/10/70	DESIGNER: J. J. GIBSON	PROJECT: RM05	REV: 1
CHKD: J. J. GIBSON	DATE: 11/10/70	TITLE:	
PROJ. ENG: J. J. GIBSON	DATE: 11/10/70	DATA SEQUENCER (DS)	
FRONT PANEL: J. J. GIBSON	DATE: 11/10/70		
TEST NUMBER: 1			
REV: 1	DATE: 11/10/70	REV: 1	DATE: 11/10/70
SCALE: 1		SCALE: 1	
SHEET: 2	OF 15	REV: 1	DATE: 11/10/70

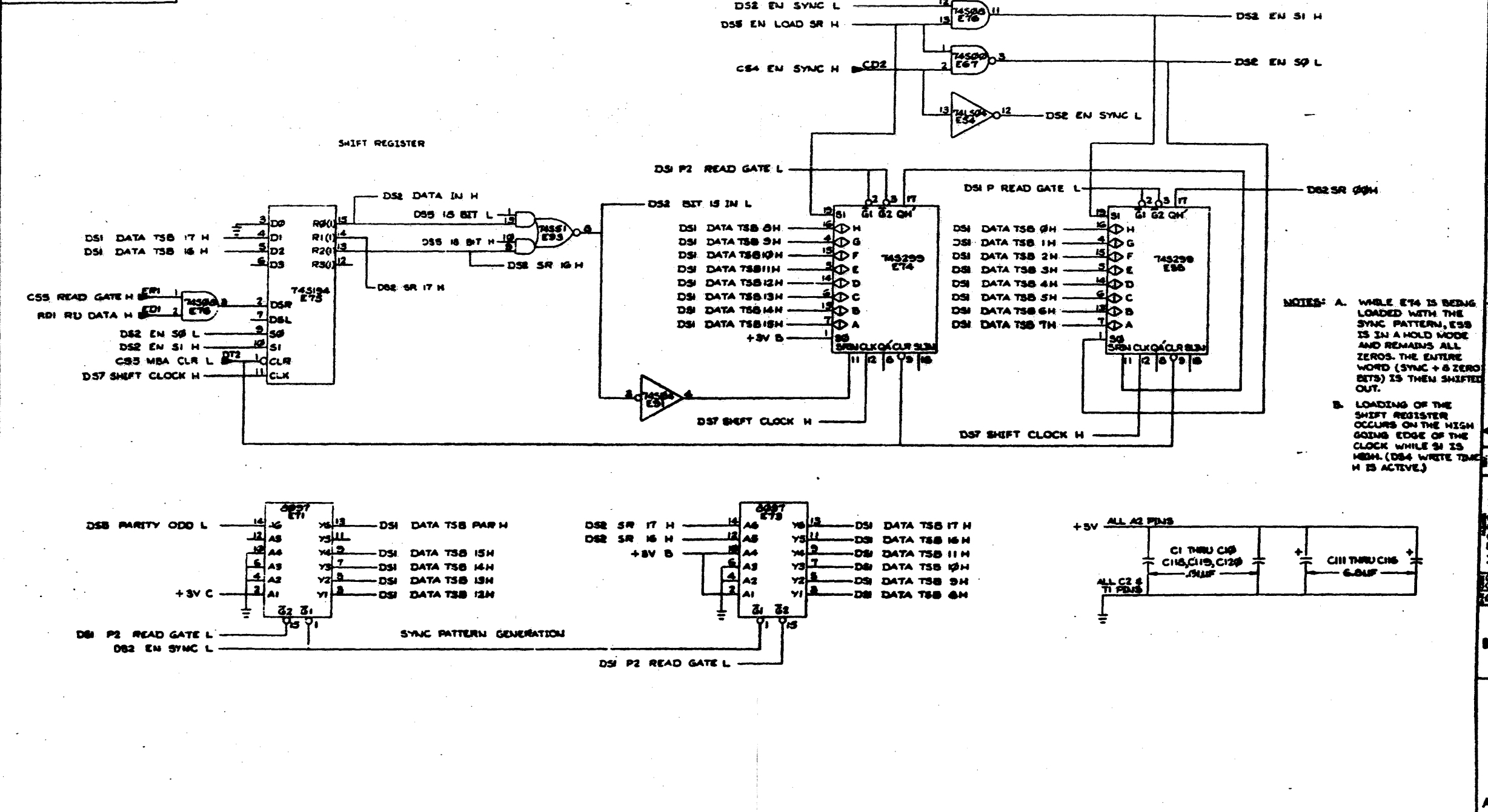
DSI M7685-YA-1 D

A

8 7 6 5 4 3 2 1

CZ 1

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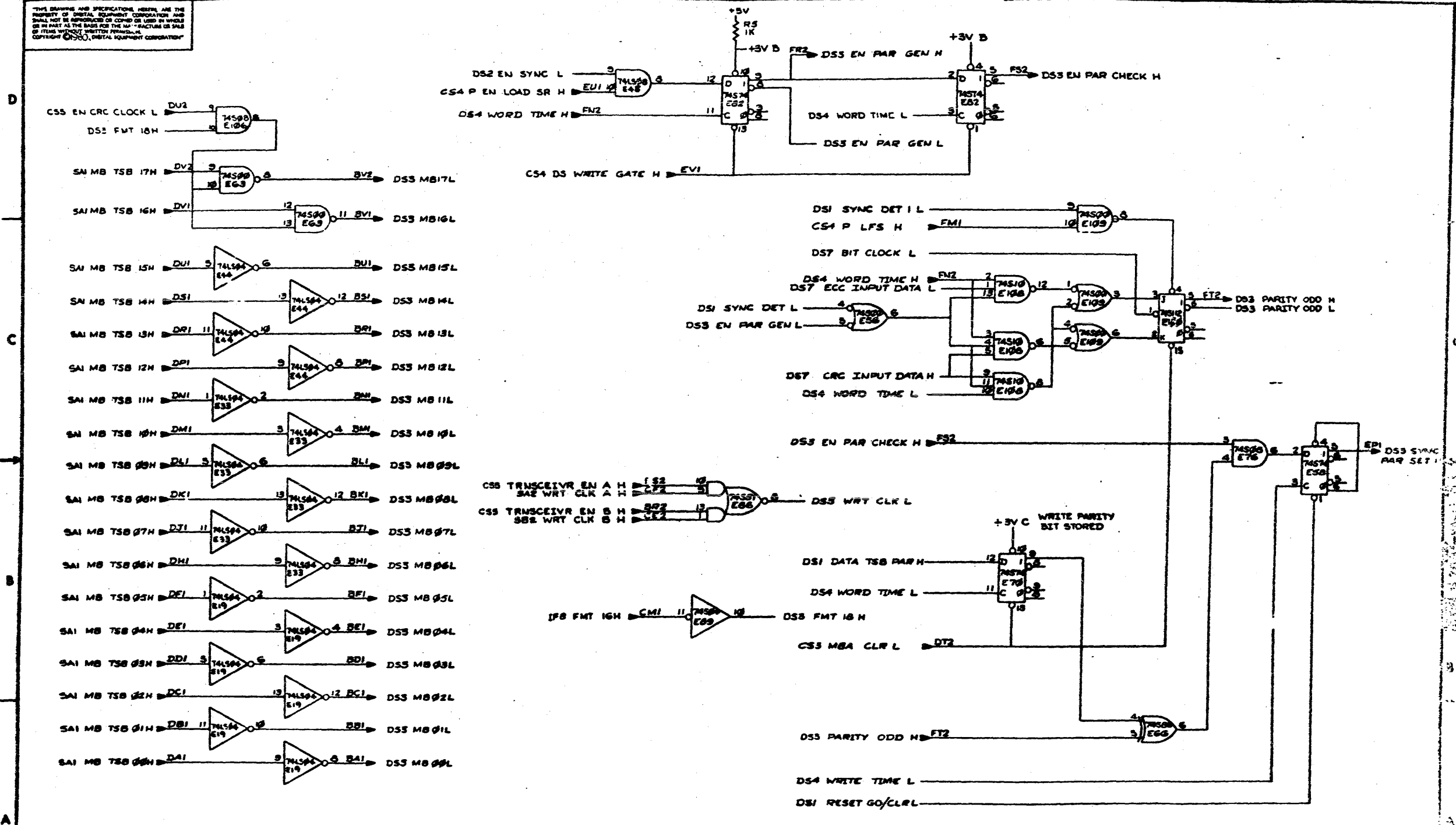
NOTES: A. WHILE E74 IS BEING LOADED WITH THE SYNC PATTERN, E73 IS IN A HOLD MODE AND REMAINS ALL ZEROS. THE ENTIRE WORD (SYNC + 8 ZERO BITS) IS THEN SHIFTED OUT.  
 B. LOADING OF THE SHIFT REGISTER OCCURS ON THE HIGH GOING EDGE OF THE CLOCK WHILE SI IS HIGH. (DS4 WRITE TIME H IS ACTIVE.)

REVISIONS		
DATE	CHANGE NO.	REV.

SHIFT REGISTER AND SYNC PATTERN GENERATION (WRITE)		TITLE	DATE/REV.	NUMBER	REV.
		DATA SEQUENCER (DS2)	DCS M 7685-YA-1	D	
		SCALE	SHEET 2 OF 15		
					CZ 1

D-CS-M7685-YA-1 2 of 15

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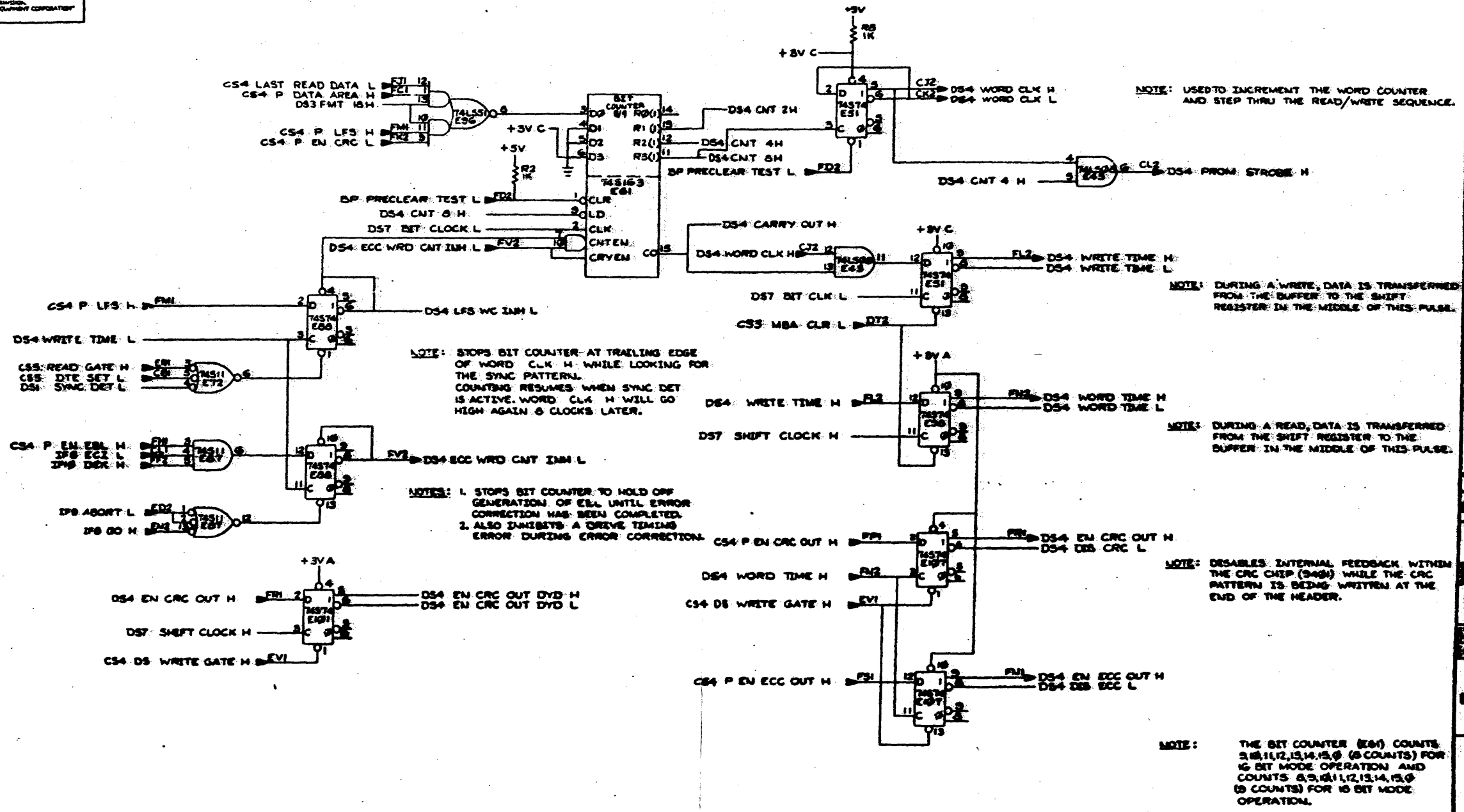


REV	CHG	NO	REV

TITLE		NUMBER	
PARITY & DATA BUS (DS3) DATA SEQUENCER		D CS M 7685-YA-1 D	
SCALE	SHEET	OF	DIST.
	3	15	



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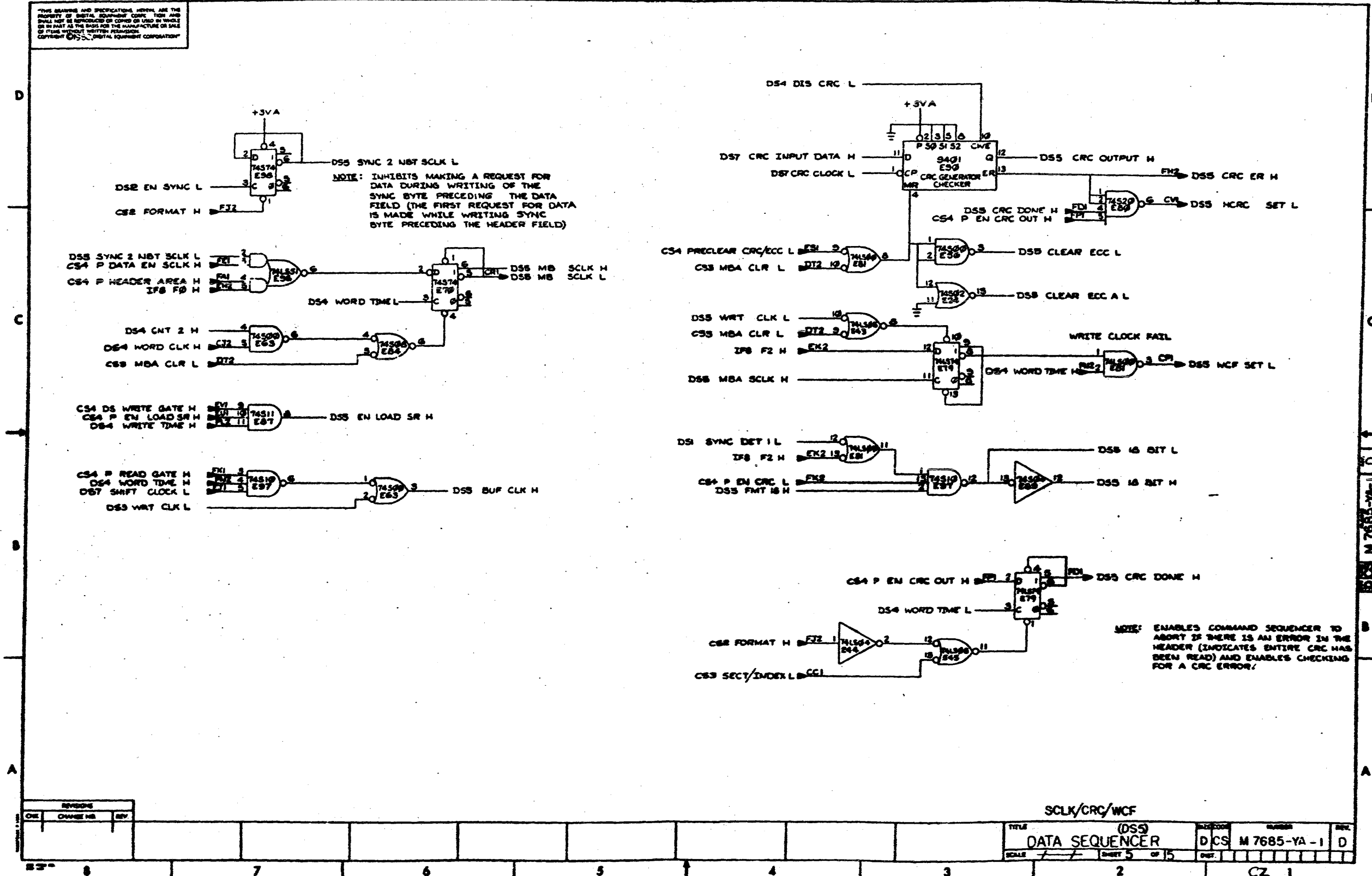


REV	CHANGE NO.	DATE

WORD CLOCK/TIMING

TITLE	(DS4)	REV.	
DATA SEQUENCER			
SCALE	SHEET 4 OF 5	DRAWN	

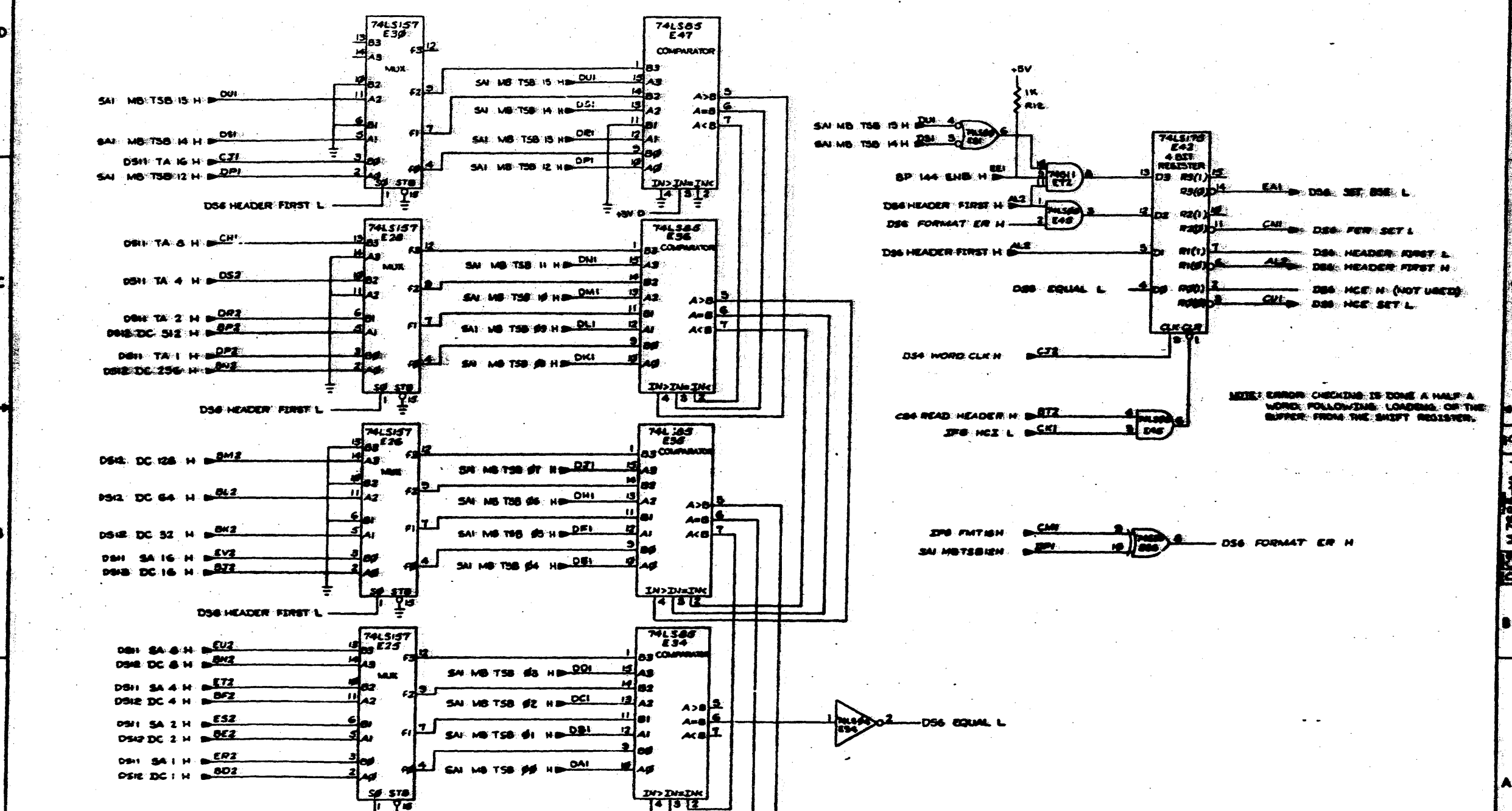
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REVISED		
DATE	CHANGE NO.	BY

SCLK/CRC/WCF		TITLE		NUMBER		REV.	
		DS3		DCS M7685-YA-1		D	
		DATA SEQUENCER					
		SCALE 1/1		SHEET 5 OF 15			

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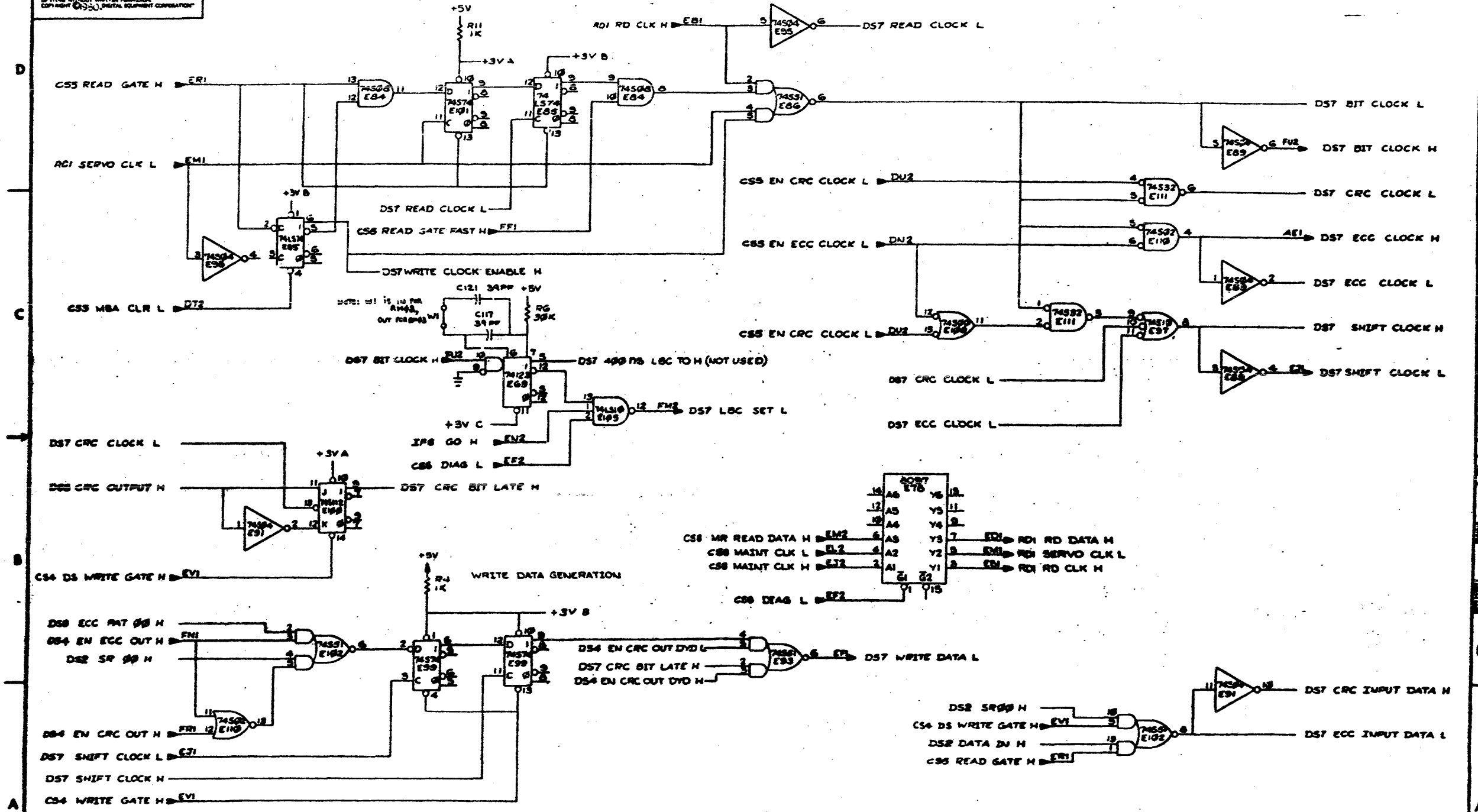


REV	CHG	CHG	NO	REV

TITLE		DS6		NAME		REV.	
DATA SEQUENCER		DCS M 7685-YA-1		D		D	
SCALE		SHEET 6		OF 15		DATE	

D-CS-M7685-YA-1  
6 of 15

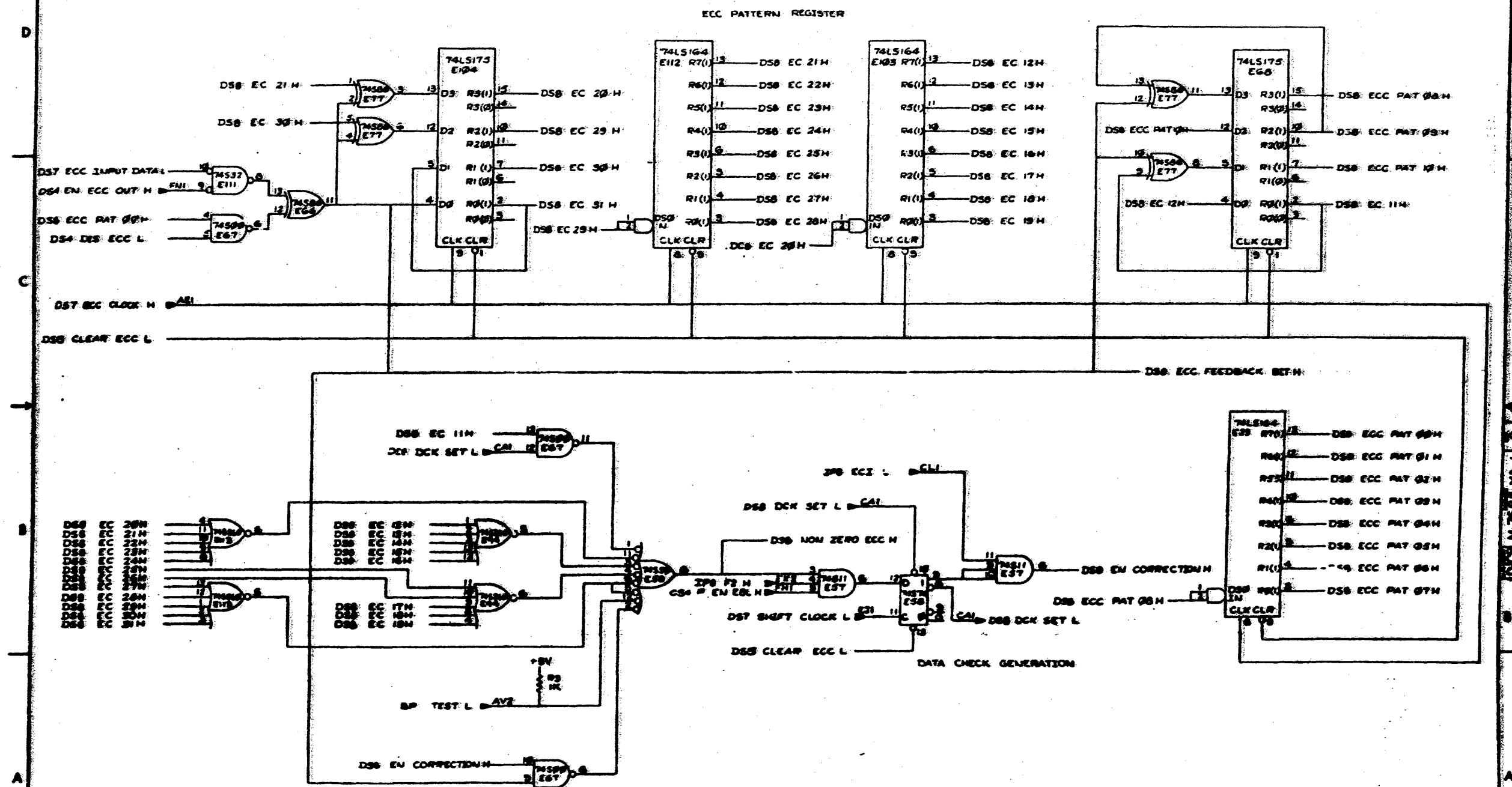
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REV	CHG	OWNER	NO.	DATE

TITLE		DRAWER		REV.	
BIT CLOCK GENERATION AND WRITE DATA		(DST) DATA SEQUENCER		C	
SCALE	SHEET	OF	TOTAL	DATE	
	7	15			

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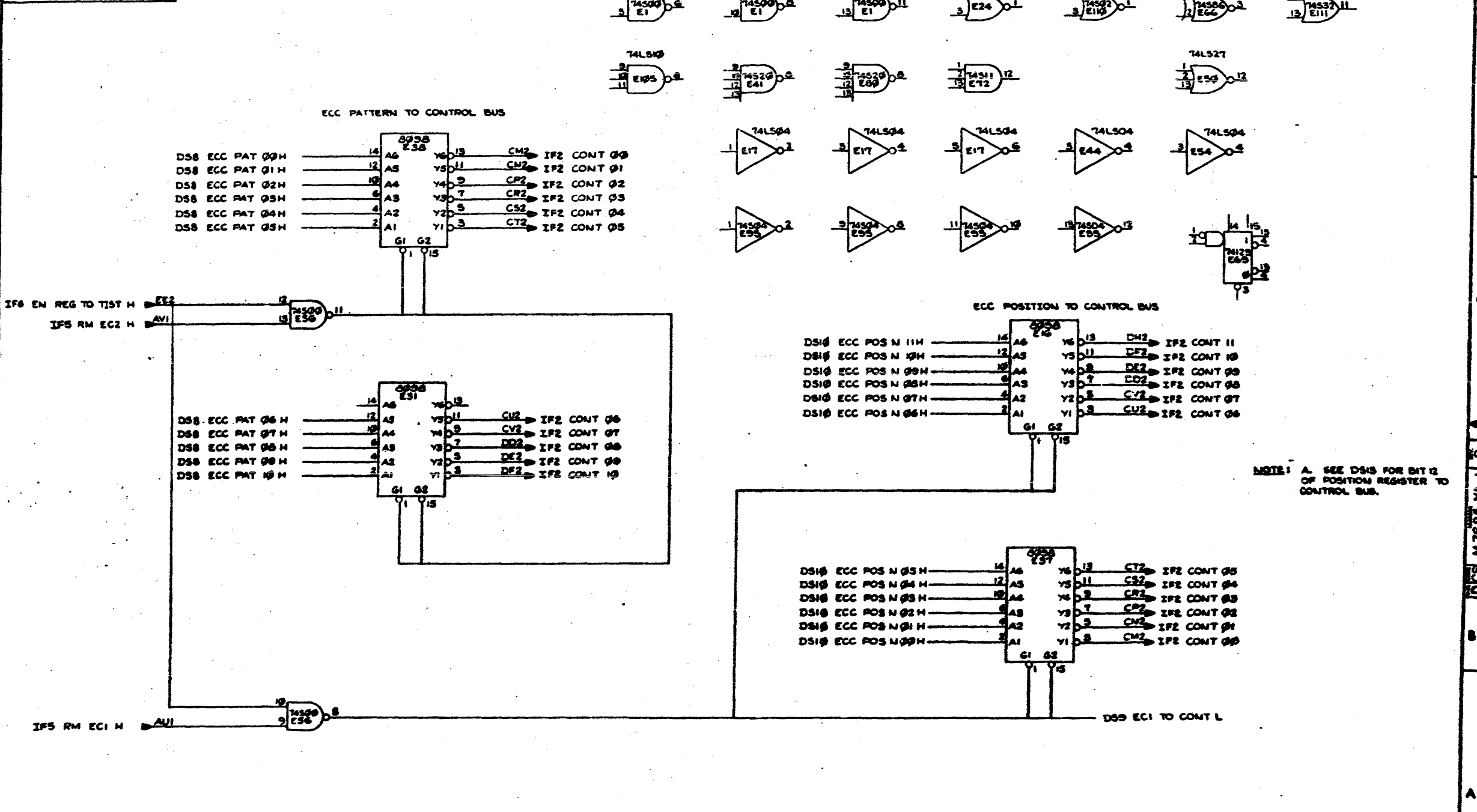


REVISION		
NO.	CHANGE NO.	REV.

ECC PATTERN REGISTER AND DCK GENERATION		DATE	DESIGNER	CHK'D
TITLE (DSB) DATA SEQUENCER		D CS	M 7685-YA-1	D
SCALE	SHEET 8	OF 15	REV.	

CZ 1

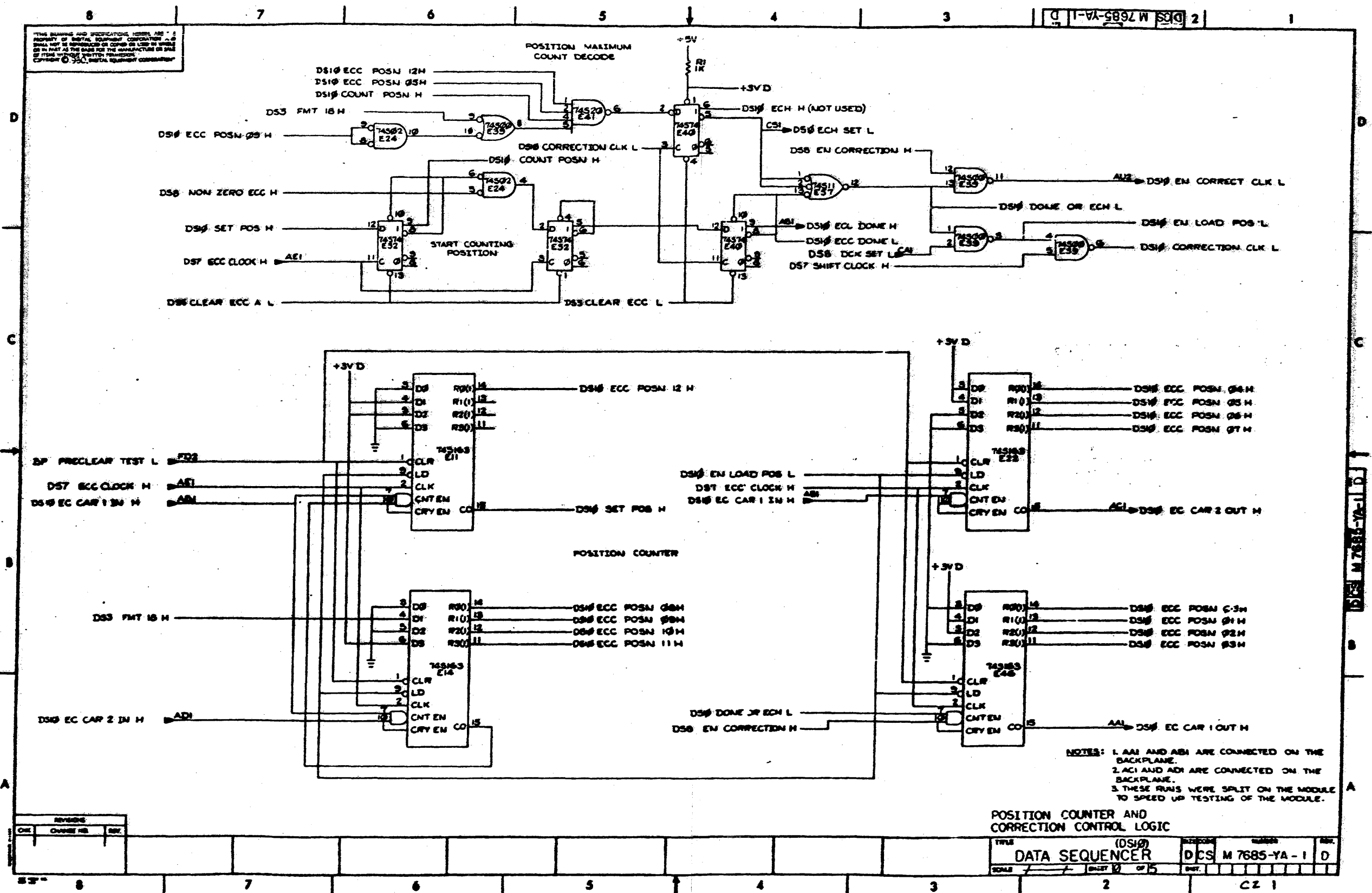
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NOTE: A. SEE DSI0 FOR BIT 12 OF POSITION REGISTER TO CONTROL BUS.

REVISIONS		
CHK	CHANGE NO.	REV.

POSITION AND PATTERN GATED TO CONTROL BUS			
TITLE		DESIGN NO.	REV.
(DS9) DATA SEQUENCER		DCS M 7685-YA-1	C
SCALE	SHEET 9 OF 15	DATE	



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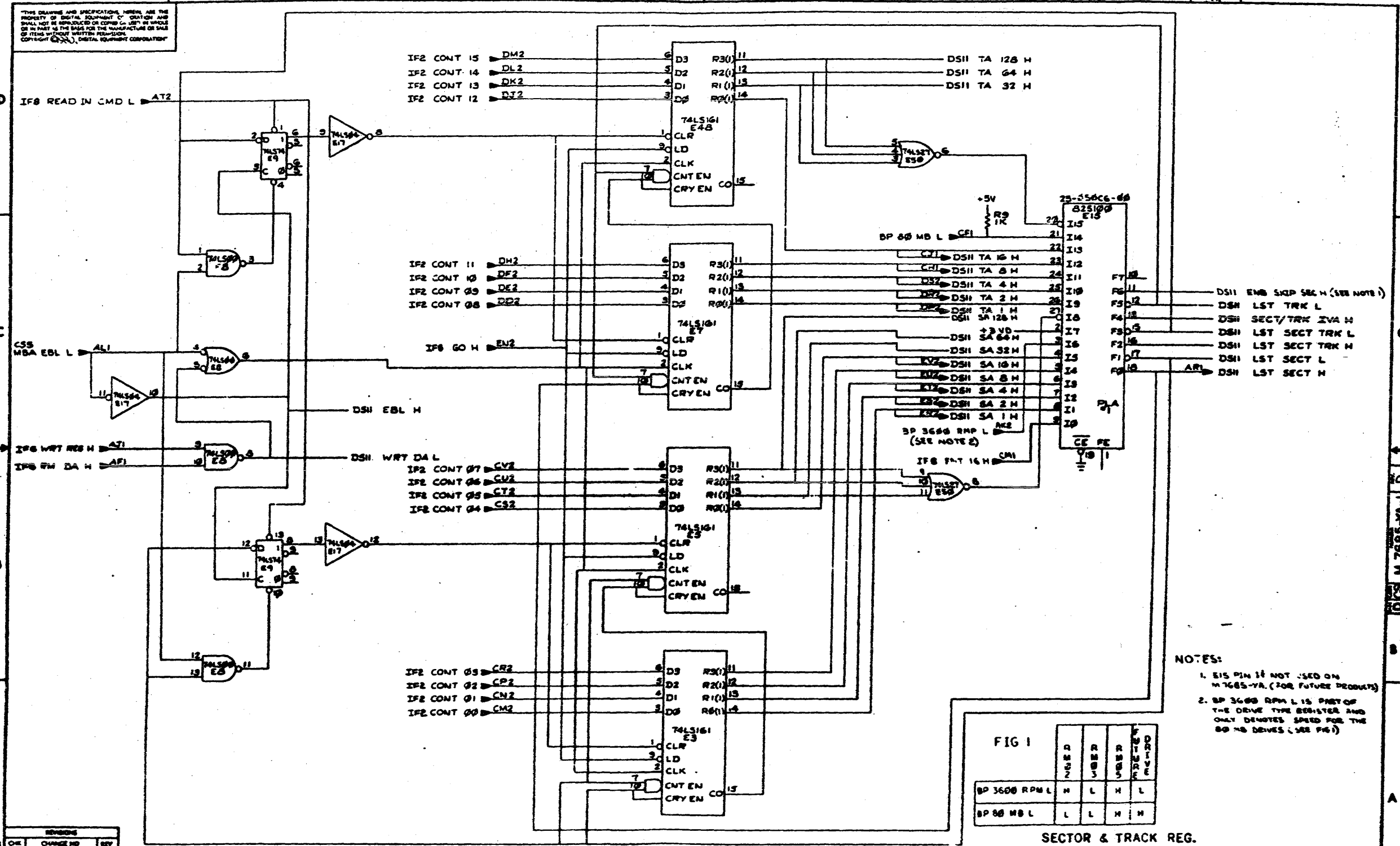
DCS M 7685-YA-1 D 2

DCS M 7685-YA-1 D

NOTES: 1. AAI AND ABI ARE CONNECTED ON THE BACKPLANE.  
 2. ACI AND ADI ARE CONNECTED ON THE BACKPLANE.  
 3. THESE RUNS WERE SPLIT ON THE MODULE TO SPEED UP TESTING OF THE MODULE.

POSITION COUNTER AND CORRECTION CONTROL LOGIC  
 DATA SEQUENCER (DS#)  
 DCS M 7685-YA-1 D  
 SCALE 1 OF 15  
 SHEET 10 OF 15

REV	DATE	BY	CHK	CHKD	APP



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REVISIONS		
CHK	CHANGE NO	REV

FIG 1

	D	R	R	F
	2	3	5	7
BP 3600 RPM L	H	L	H	L
BP 80 MB L	L	L	H	H

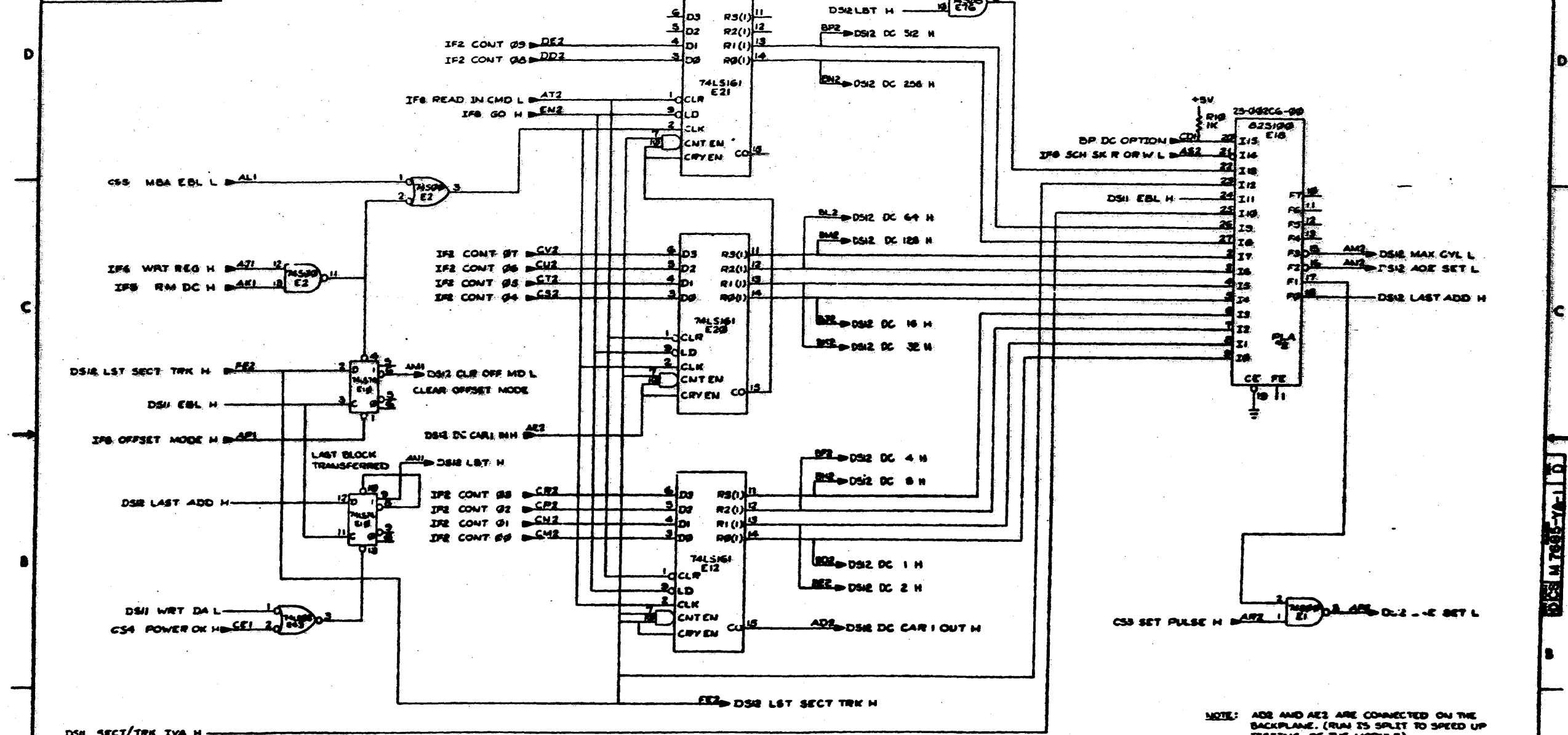
SECTOR & TRACK REG.

- NOTES:
- E15 PIN IS NOT USED ON M7685-YA (FOR FUTURE PRODUCTS)
  - BP 3600 RPM L IS PART OF THE DRIVE TYPE REGISTER AND ONLY DENOTES SPEED FOR THE 80 MB DRIVES (SEE FIG 1)

TITLE	(DSII)	REVISION	REV
DATA SEQUENCER	DCS M 7685-YA-1	0	0
SCALE	SHEET 11	OF 15	DIST.



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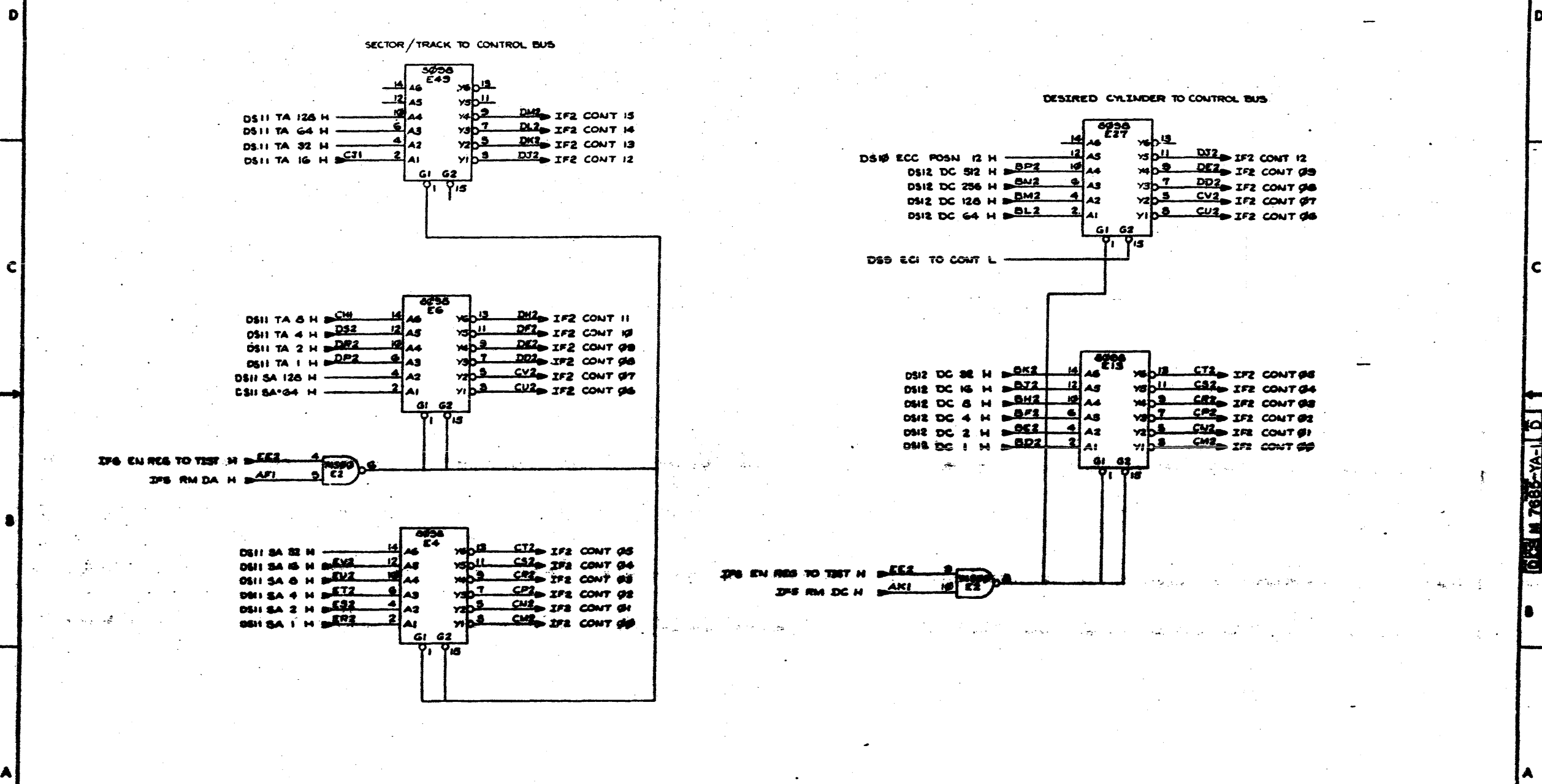


NOTE: A02 AND A03 ARE CONNECTED ON THE BACKPLANE. (R19 IS SPLIT TO SPEED UP TESTING OF THE MODULE)

REVISIONS		
NO.	CHANGE NO.	REV.

TITLE		(DS2)	DESI2
DATA SEQUENCER		D 1	D
SCALE	1	SHEET	12 OF 15
DESIGN		DATE	

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		NUMBER		REV.	
DATA SEQUENCER (DS13)		DCS M7685-YA-1		0	
SCALE	SHEET		OF		
	13		15		

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AA1 DSW ECC CAR 1 OUT H  
 AB1 DSW ECC CAR 1 IN H  
 AC1 DSW ECC CAR 2 OUT H  
 AD1 DSW ECC CAR 2 IN H  
 AE1 DSW ECC CLOCK H  
 AF1 IFS RM QA H  
 AH1 SPARE  
 AJ1 IFS WRT REG H  
 AK1 IFS RM QC H  
 AL1 CSS MBA EBL L  
 AM1 DSW CLR OFF MD L  
 AN1 DSW LBT H  
 AP1 IFS OFFSET M/JDF H  
 AR1 DSW LST SECT H  
 AS1 DSW ECC DONE H  
 AT1 GND  
 AU1 IFS RM ECL H  
 AV1 IFS RM ECR H

BA1 DSW MB 01 L  
 BB1 DSW MB 01 L  
 BC1 DSW MB 02 L  
 BD1 DSW MB 03 L  
 BE1 DSW MB 04 L  
 BF1 BP 00 MB L  
 BH1 DSW MB 05 L  
 BJ1 DSW MB 07 L  
 BK1 IFS MC L  
 BL1 DSW MB 09 L  
 BM1 DSW MB 10 L  
 BN1 DSW MB 11 L  
 BP1 DSW MB 12 L  
 BR1 DSW MB 13 L  
 BS1 DSW MB 14 L  
 BT1 GND  
 BU1 DSW MB 15 L  
 BV1 DSW MB 16 L

CA1 DSW DCK SET L  
 CB1 CSS DTE SET L  
 CC1 CSS SECT/INDEX L  
 CD1 BP DC OPTION  
 CE1 CS4 POWER OK H  
 CF1 BP 00 MB L  
 CH1 DSW TA 0 H  
 CJ1 DSW TA 16 H  
 CK1 IFS MC L  
 CL1 IFS ECL L  
 CM1 IFS FMT 16 H  
 CN1 DSW FER SET L  
 CP1 DSW WCF SET L  
 CR1 DSW MB SCLK L  
 CS1 DSW ECH SET L  
 CT1 GND  
 CU1 DSW HCE SET L  
 CV1 DSW MCRC SET L

DA1 SAI MB TSB 10 H  
 DB1 SAI MB TSB 21 H  
 DC1 SAI MB TSB 22 H  
 DD1 SAI MB TSB 23 H  
 DE1 SAI MB TSB 24 H  
 DF1 SAI MB TSB 25 H  
 DH1 SAI MB TSB 26 H  
 DJ1 SAI MB TSB 27 H  
 DK1 SAI MB TSB 28 H  
 DL1 SAI MB TSB 29 H  
 DM1 SAI MB TSB 10 H  
 DN1 SAI MB TSB 11 H  
 DP1 SAI MB TSB 12 H  
 DR1 SAI MB TSB 13 H  
 DS1 SAI MB TSB 14 H  
 DT1 GND  
 DU1 SAI MB TSB 15 H  
 DV1 SAI MB TSB 16 H

EAI DSW SET BSE L  
 EB1 ROI RD CLK H  
 EC1 SAI MB TSB 22 H  
 ED1 ROI RD DATA H  
 EE1 BP 144 ENB H  
 EF1 DSW WRITE DATA L  
 EH1 SPARE  
 EJ1 DSW SHIFT CLOCK L  
 EK1 SPARE  
 EL1 SPARE  
 EM1 ROI SERVO CLK L  
 EN1 SPARE  
 EP1 DSW SYNC PWR SET H  
 ER1 CS4 READ GATE H  
 ES1 CS4 PRECLEAR CRC/DC L  
 ET1 GND  
 EU1 CS4 P EN LDR 0R H  
 EV1 CS4 DR WRITE GATE H

FA1 CS4 P HEADER AREA H  
 FB1 SPARE  
 FC1 CS4 P DATA AREA H  
 FD1 DSW CRC DONE H  
 FE1 CS4 P DATA EN SCLK H  
 FF1 CS4 READ GATE PWR H  
 FH1 CS4 P EN 0R H  
 FI1 CS4 LAST READ DATA L  
 FJ1 CS4 P READ GATE H  
 FK1 SPARE  
 FL1 SPARE  
 FM1 CS4 P LFS H  
 FN1 DSW EN ECC OUT H  
 FP1 CS4 P EN CRC OUT H  
 FQ1 DSW EN CRC OUT H  
 FR1 CS4 P EN ECC OUT H  
 FS1 GND  
 FT1 SPARE  
 FU1 SPARE  
 FV1 SPARE

AG2 +5V  
 AH2 -15V  
 AJ2 GND  
 AK2 DSW DC CAR 1 OUT H  
 AL2 DSW DC CAR 1 IN H  
 AM2 SPARE  
 AN2 SPARE  
 AO2 BP 1600 RPM  
 AP2 DSW HEADER FIRST H  
 AQ2 DSW MAX CYL L  
 AR2 DSW AOE SET L  
 AS2 DSW IAE SET L  
 AT2 CS3 SET PWR SE H  
 AU2 IFS SCH SK R OR W L  
 AV2 IFS READ IN CMD L  
 AW2 DSW EN CORRECT CLK L  
 AX2 BP TEST L

BY2 +5V  
 BZ2 -15V  
 CA2 GND  
 CB2 DSW DC 1 H  
 CC2 DSW DC 2 H  
 CD2 DSW DC 4 H  
 CE2 DSW DC 8 H  
 CF2 DSW DC 16 H  
 CG2 DSW DC 32 H  
 CH2 DSW DC 64 H  
 CI2 DSW DC 128 H  
 CJ2 DSW DC 256 H  
 CK2 DSW DC 512 H  
 CL2 CS3 TRANSCVLR EN B H  
 CM2 CS3 TRANSCVLR EN A H  
 CN2 CS4 READ HEADER H  
 CO2 SAI MB SYNC PWR H  
 CP2 DSW MB 17 L

CQ2 +5V  
 CR2 -15V  
 CS2 GND  
 CT2 CS4 EN SYNC H  
 CU2 SBE WRT CLK 0 H  
 CV2 SAI WRT CLK A H  
 CW2 DSW SYNC DET H  
 CX2 DSW WORD CLK H  
 CY2 DSW WORD CLK L  
 CZ2 DSW PROM STROBE H  
 CA3 IFS CONT 00  
 CB3 IFS CONT 02  
 CC3 IFS CONT 10  
 CD3 IFS CONT 11  
 CE3 IFS CONT 12  
 CF3 IFS CONT 13  
 CG3 IFS CONT 14  
 CH3 IFS CONT 15  
 CI3 CS4 EN ECC CLOCK L  
 CJ3 DSW TA 1 H  
 CK3 DSW TA 2 H  
 CL3 DSW TA 4 H  
 CM3 CS4 MBA CLK L  
 CN3 CS4 EN CRC CLOCK L  
 CO3 SAI MB TSB 17 H

CP3 +5V  
 CQ3 -15V  
 CR3 GND  
 CS3 IFS CONT 00  
 CT3 IFS CONT 02  
 CU3 IFS CONT 10  
 CV3 IFS CONT 11  
 CW3 IFS CONT 12  
 CX3 IFS CONT 13  
 CY3 IFS CONT 14  
 CZ3 IFS CONT 15  
 CA4 CS4 EN ECC CLOCK L  
 CB4 DSW TA 1 H  
 CC4 DSW TA 2 H  
 CD4 DSW TA 4 H  
 CE4 CS4 MBA CLK L  
 CF4 CS4 EN CRC CLOCK L  
 CG4 DSW SA 0 H  
 CH4 DSW SA 1 H  
 CI4 DSW SA 2 H  
 CJ4 DSW SA 3 H  
 CK4 DSW SA 4 H  
 CL4 DSW SA 5 H  
 CM4 DSW SA 6 H  
 CN4 DSW SA 7 H  
 CO4 DSW SA 8 H  
 CP4 DSW SA 9 H  
 CQ4 DSW SA 10 H  
 CR4 DSW SA 11 H  
 CS4 DSW SA 12 H  
 CT4 DSW SA 13 H  
 CU4 DSW SA 14 H  
 CV4 DSW SA 15 H

CP5 +5V  
 CQ5 -15V  
 CR5 GND  
 CS5 IFS CONT 00  
 CT5 IFS CONT 02  
 CU5 IFS CONT 10  
 CV5 IFS CONT 11  
 CW5 IFS CONT 12  
 CX5 IFS CONT 13  
 CY5 IFS CONT 14  
 CZ5 IFS CONT 15  
 CA5 CS4 EN ECC CLOCK L  
 CB5 DSW TA 1 H  
 CC5 DSW TA 2 H  
 CD5 DSW TA 4 H  
 CE5 CS4 MBA CLK L  
 CF5 CS4 EN CRC CLOCK L  
 CG5 DSW SA 0 H  
 CH5 DSW SA 1 H  
 CI5 DSW SA 2 H  
 CJ5 DSW SA 3 H  
 CK5 DSW SA 4 H  
 CL5 DSW SA 5 H  
 CM5 DSW SA 6 H  
 CN5 DSW SA 7 H  
 CO5 DSW SA 8 H  
 CP5 DSW SA 9 H  
 CQ5 DSW SA 10 H  
 CR5 DSW SA 11 H  
 CS5 DSW SA 12 H  
 CT5 DSW SA 13 H  
 CU5 DSW SA 14 H  
 CV5 DSW SA 15 H

CP6 +5V  
 CQ6 -15V  
 CR6 GND  
 CS6 IFS CONT 00  
 CT6 IFS CONT 02  
 CU6 IFS CONT 10  
 CV6 IFS CONT 11  
 CW6 IFS CONT 12  
 CX6 IFS CONT 13  
 CY6 IFS CONT 14  
 CZ6 IFS CONT 15  
 CA6 CS4 EN ECC CLOCK L  
 CB6 DSW TA 1 H  
 CC6 DSW TA 2 H  
 CD6 DSW TA 4 H  
 CE6 CS4 MBA CLK L  
 CF6 CS4 EN CRC CLOCK L  
 CG6 DSW SA 0 H  
 CH6 DSW SA 1 H  
 CI6 DSW SA 2 H  
 CJ6 DSW SA 3 H  
 CK6 DSW SA 4 H  
 CL6 DSW SA 5 H  
 CM6 DSW SA 6 H  
 CN6 DSW SA 7 H  
 CO6 DSW SA 8 H  
 CP6 DSW SA 9 H  
 CQ6 DSW SA 10 H  
 CR6 DSW SA 11 H  
 CS6 DSW SA 12 H  
 CT6 DSW SA 13 H  
 CU6 DSW SA 14 H  
 CV6 DSW SA 15 H

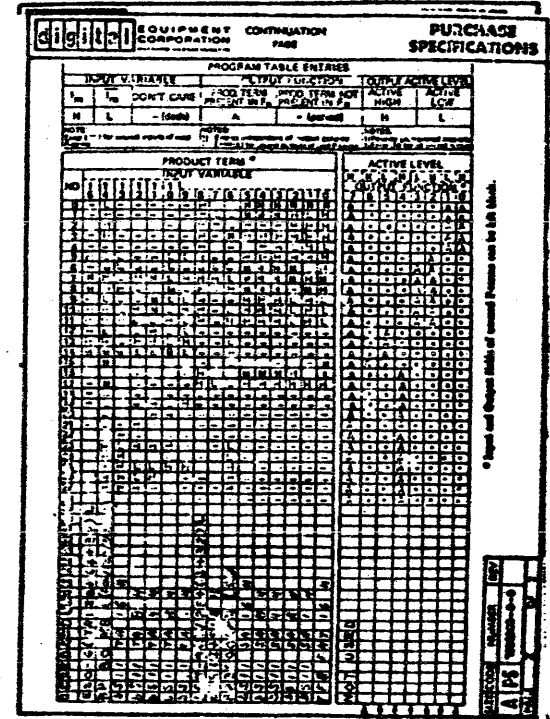
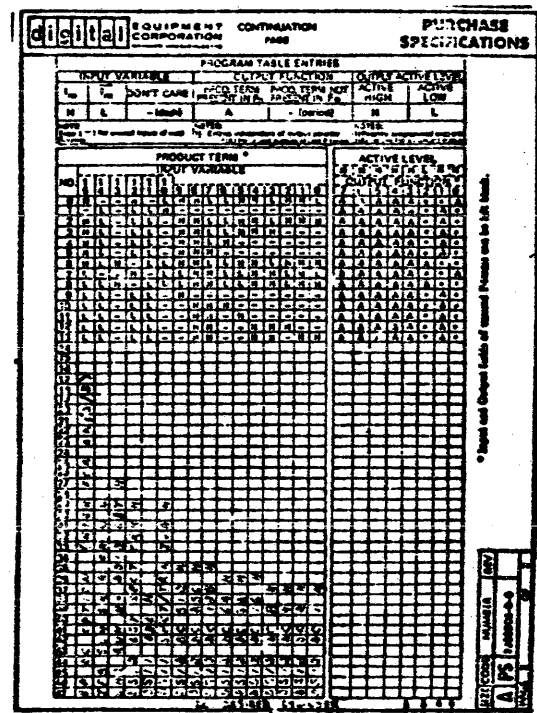
CHK	CHK'D BY	REV

I/O SIGNAL LIST

TITLE	(DSM) DATA SEQUENCER	REV	DCS	NO	DATE	14	OF	15	REV	
NO.										

CZ 1

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23-00206: FPLA AT E18  
CYLINDER ADDRESS DECODE

23-050C6 FPLA AT E15  
TRACK/SECTOR ADDRESS DECODE

FIG 1

	R	R	R	F
	M	M	M	U
	2	3	5	R
				I
				R
				V
				E
BP 3600 RPM L	H	L	H	L
BP 60 MB L	L	L	H	H

IF ALWAYS HIGH FOR M7685-YA, THIS PIN IS FOR FUTURE PRODUCTS.  
 IF BP 3600 RPM L IS PART OF THE DRIVE TYPE BBS AND ONLY DENOTES SPEED FOR 60 MB DRIVES (SEE FIG 1).

REVISIONS		
CHK	CHANGE NO.	REV.

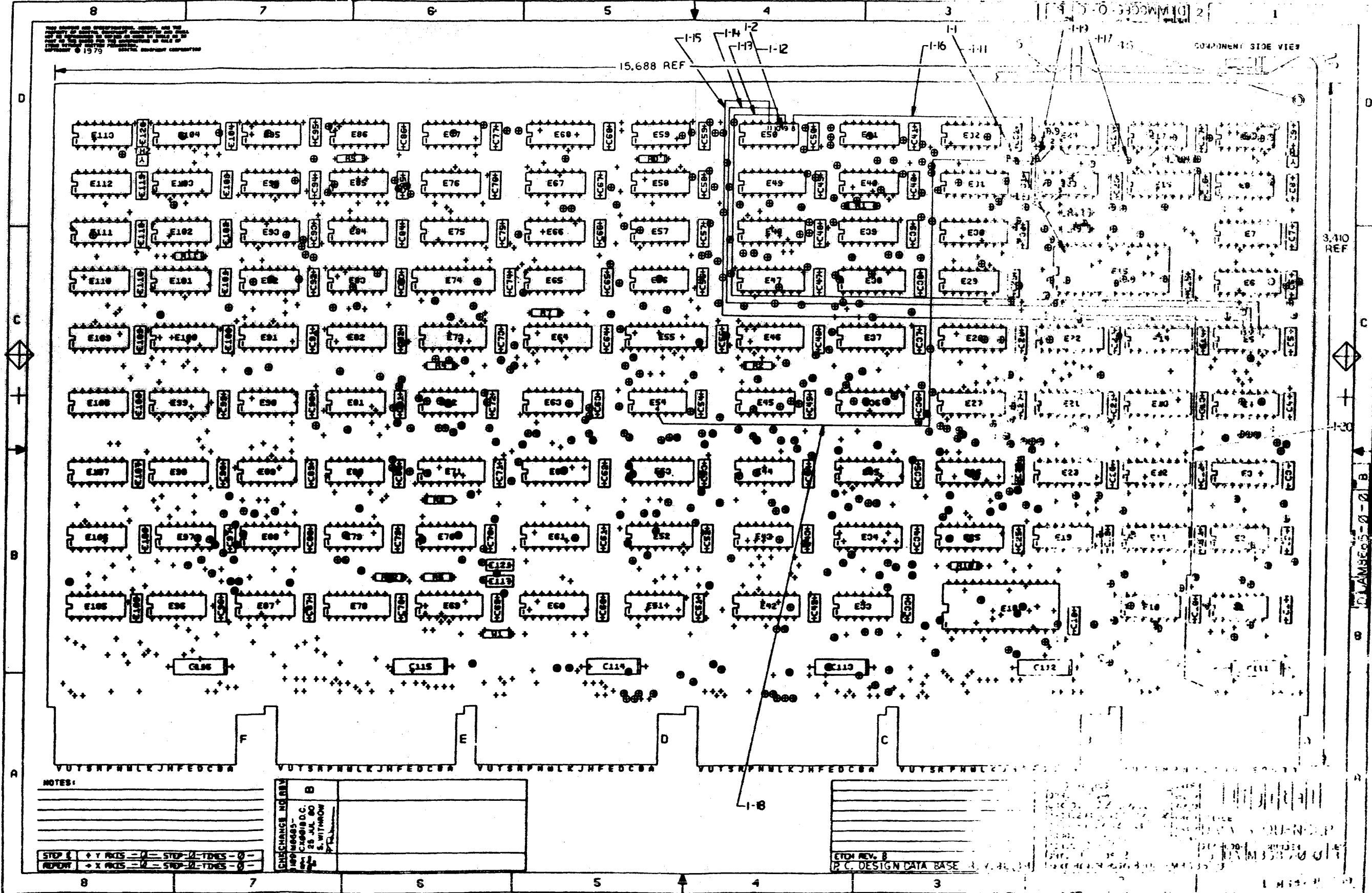
DCS M7685-YA-1 D 51 40 51

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
1	1	D-MD-5012485-0-0	5012485-00	M7685	1	
2	2		1001610-01	.01 MFD 100V -20+80 Z5U DISC	113	C1-C110,C118-C120
3	3		1017472-00	10 MFD 35V +50-10% AL EL	6	C111-C116
4	4		1000010-00	39.0 MMF 100V 5%200PPM DM15S	2	C117,C121
5	5		1210711-02	HANDLE,MODULE,HEX	1	
6	6		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
7	7		1300365-00	1.0 K .25 W 5.0 % CC	11	R1-R5,R7,R8,R9,R10,R11,R12
8	8		1302394-00	30.0 K .25 W 5.0 % CC	1	R6
9	9		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E8,E81
10	10		1910532-00	74S00 NAND GATE-QUAD 2IN	7	E1,E2,E39,E56,E63,E67,E109
11	11		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	E110
12	12		1912803-00	LS04 INVERTER GATE-HEX 1I	5	E17,E19,E33,E44,E54
13	13		1910534-00	74S04 INVERTER GATE-HEX 1I	3	E89,E91,E95
14	14		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	E43,E45
15	15		1912389-00	74S08 AND GATE-QUAD 2IN,PO	3	E76,E84,E106
16	16		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E97,E108
17	17		1910537-00	74S11 AND GATE-TRIPLE 3INP	3	E57,E72,E87
18	18		1912801-00	LS02 NOR-GATE-QUAD 2IN	1	E24
19	19		1910539-00	74S20 NAND GATE-DUAL 4INPU	2	E41,E80
20	20		1914086-00	74S30 NAND GATE-POS 8IN	2	E59,E92
21	21		1913340-00	74S32 OR GATE-QUAD 2IN	1	E111
22	22		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E96
23	23		1911712-00	74S51 AND-OR GATE-INVERT D	3	E86,E93,E102
24	24		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	12	E32,E40,E51,E58,E70,E82,E83,E88
25	25		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	4	CONT E98,E99,E101,E107
26	26		1912828-00	L385 COMPARATOR,4BIT MAGN	4	E9,E10,E79,E85
27	27		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	2	E34,E35,E36,E47
28	28		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	E66,E77
29	29		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	1	E100 E69

REVISION HISTORY		BASIC PART NO: M7685		DRN:	DATE:	DIGITAL			
ENG:	ECD NUMBER	REV	SECTION A OF A	CHK'D:	DATE:	PARTS LIST			
<i>RPA</i>	INITIAL	D	SECTION VARIATION INDEX	<i>R. Michaud</i>	DATE:	DATA SEQUENCER			
<i>26 Feb 80</i>			[A] YA	<i>C. Dunigan</i>	DATE:	DOCUMENT NUMBER			
			[B]		DATE:	SIZE CODE NUMBER REV			
			[C]	<i>D. Clarlin</i>	DATE:	K	PL	M7685-YA-DBP	D
			[D]		DATE:	ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: EDIT #			
			[E]		DATE:	#B-DD-M7685-YA Z1189D.PLS 8			
			[F]		THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.				
			[G]		COPYRIGHT (C) 1980. DIGITAL EQUIPMENT CORPORATION				
			[H]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
30	30		1912847-00	LS157 MUX 1 OF 2(QUAD)	4	E25,E26,E28,E30
31	31		1914082-00	74S163 COUNTER,SYNCH UP/DOW	5	E11,E14,E22,E46,E61
32	32		1912850-00	LS164 SHIFT REG. 8BIT SERI	3	E29,E103,E112
33	33		1912853-00	LS175 FF-D QUAD	3	E42,E68,E104
34	34		1910552-00	74S194 SHIFT REG.,4BIT RIGH	1	E75
35	35		1914085-00	74S260 NOR GATE-DUAL,POS	2	E94,E113
36	36		1914084-00	74S299 SHIFT REG.,8BIT RIGH	2	E55,E74
37	37		1911527-00	8097 BUFFER GATE-HEX 2INP	3	E71,E73,E78
38	38		1914087-00	8098 BUFFER GATE-HEX 2IN,	9	E4,E6,E13,E16,E27,E31,E37,E38, CONT E49
39	39		1914083-00	8542 REGISTER,I/O-QUAD,TR	5	E52,E53,E60,E62,E64
40	40		1913474-00	9401 GENERATOR/CHECKER CR	1	E90
41	41		1912807-00	LS19 NAND GATE-TRIPLE 3IN	1	E105
42	42		1912849-00	LS161 COUNTER,SYNCHR,4BIT	7	E3,E5,E7,E12,E20,E21,E48
43	43		23050C6-00	C6-01	1	E15
44	44		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E50
45	45		23002C6-00	C6-01	1	E18
46	46		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
47	47		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

! D ! I ! G ! I ! T ! A ! L !	! TITLE !	! SIZE !	! CODE !	! DOCUMENT NUMBER !	! REV !
! ! ! ! ! ! ! ! ! ! !	! DATA SEQUENCER !	! ! !	! ! !	! M7685-YA-DBP !	! D !
! ! ! ! ! ! ! ! ! ! !	! ! ! ! ! ! ! ! ! ! !	! ! !	! ! !	! ! !	! ! !







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D

C

B

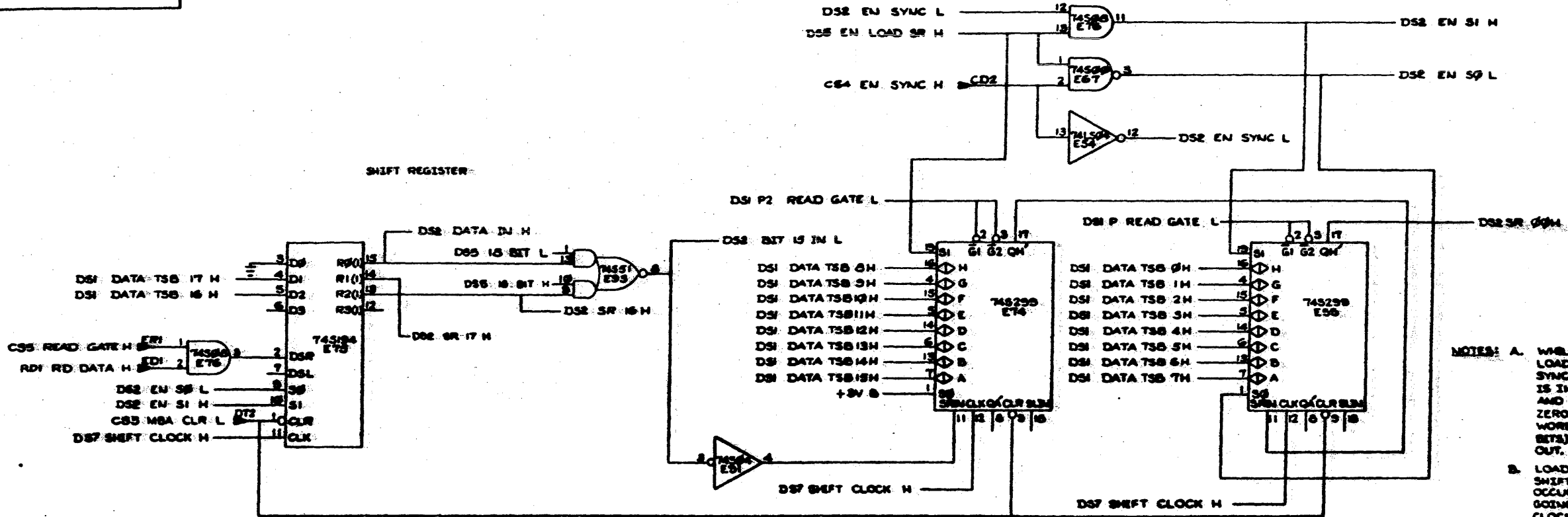
A

D

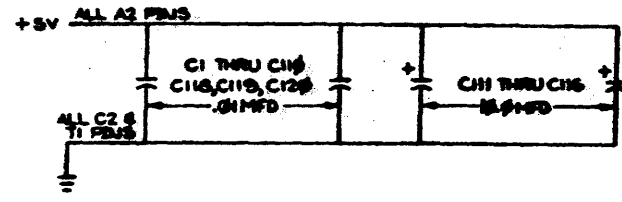
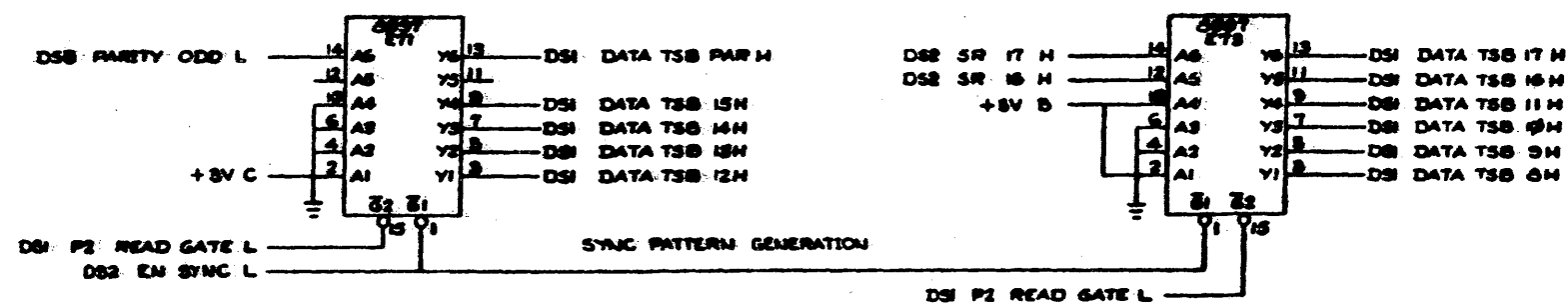
C

B

A



NOTES: A. WHILE E74 IS BEING LOADED WITH THE SYNC PATTERN, E78 IS IN A HOLD MODE AND REMAINS ALL ZEROS. THE ENTIRE WORD (SYNC + 8 ZERO BITS) IS THEN SHIFTED OUT.  
 B. LOADING OF THE SHIFT REGISTER OCCURS ON THE HIGH GOING EDGE OF THE CLOCK WHILE 'SI IS HIGH. (DS4 WRITE TIME H IS ACTIVE.)

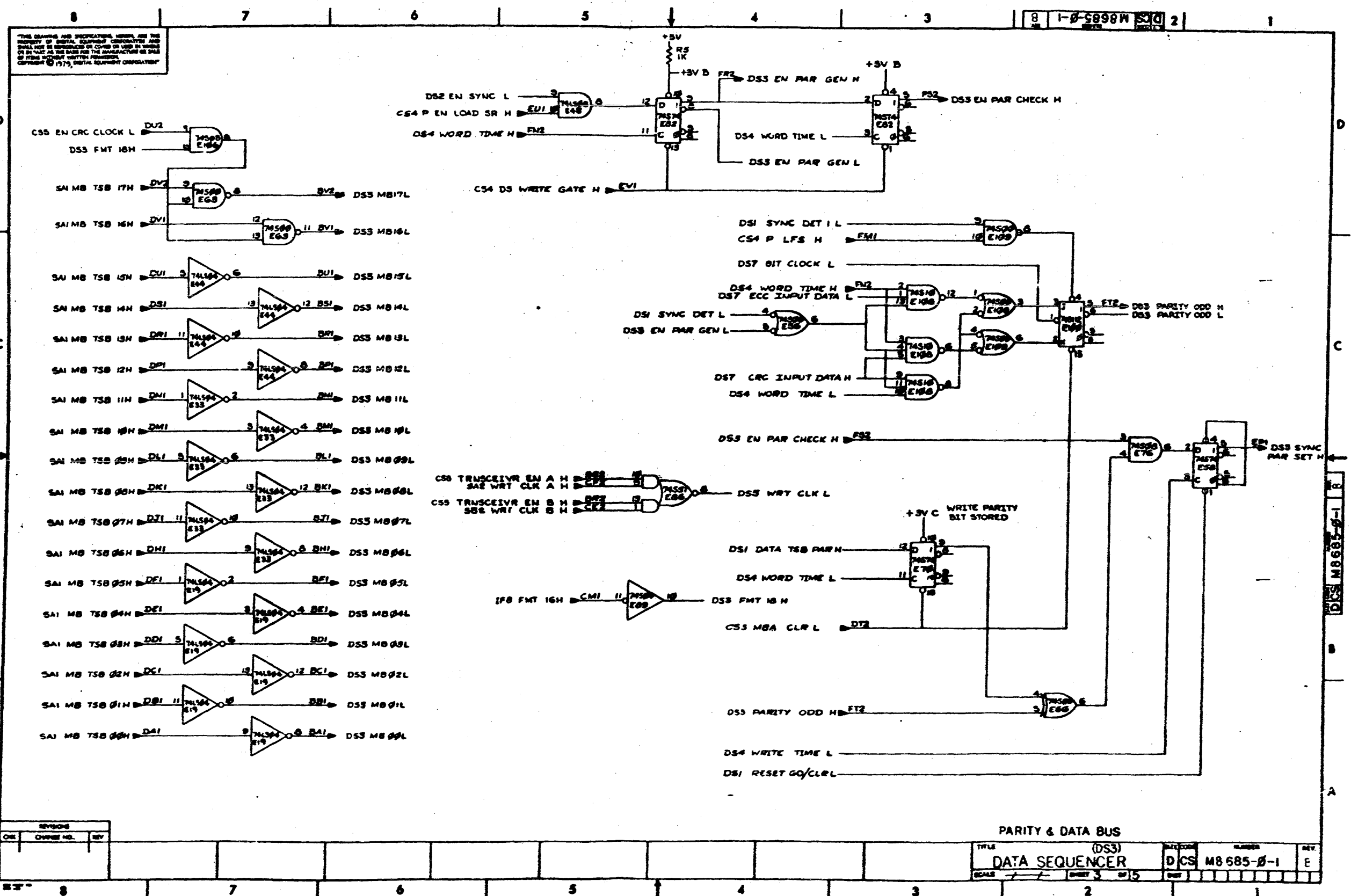


SHIFT REGISTER AND SYNC PATTERN GENERATION (WRITE)

REVISED		
CHK	CHANGE NO.	REV.

TITLE	(DS2)	REVISION	REV.
DATA SEQUENCER		D CS M8685-0-1	8
SCALE	1-1	SHEET 2 OF 5	REV.

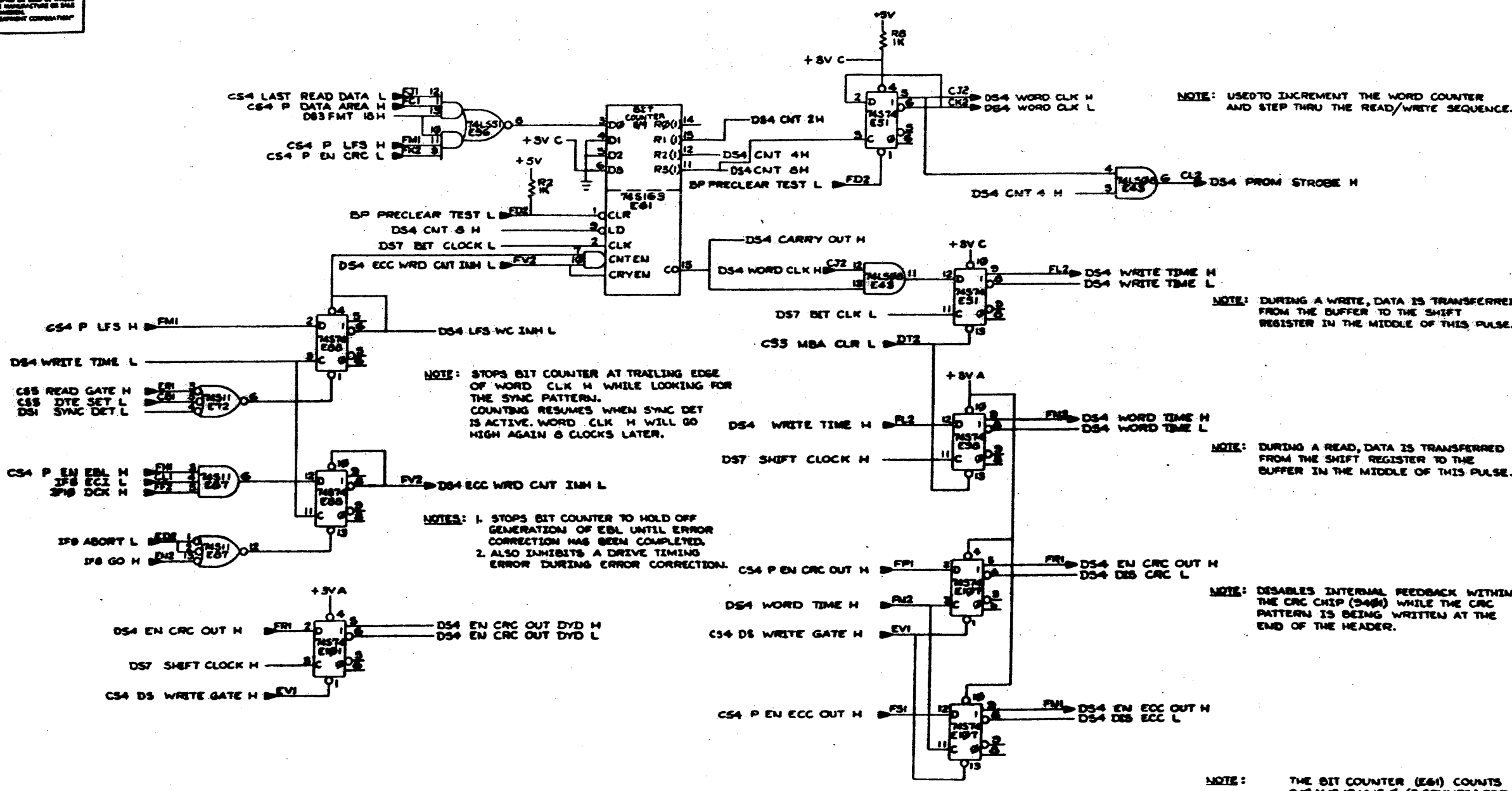
D CS M8685-0-1 B



REVISIONS		
CHK	CHANGE NO.	REV

DCS M8685-β-1 R

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NOTE: USED TO INCREMENT THE WORD COUNTER AND STEP THRU THE READ/WRITE SEQUENCE.

NOTE: DURING A WRITE, DATA IS TRANSFERRED FROM THE BUFFER TO THE SHIFT REGISTER IN THE MIDDLE OF THIS PULSE.

NOTE: DURING A READ, DATA IS TRANSFERRED FROM THE SHIFT REGISTER TO THE BUFFER IN THE MIDDLE OF THIS PULSE.

NOTE: DISABLES INTERNAL FEEDBACK WITHIN THE CRC CHIP (2400) WHILE THE CRC PATTERN IS BEING WRITTEN AT THE END OF THE HEADER.

NOTE: THE BIT COUNTER (E61) COUNTS 2,3,11,12,13,14,15,0 (8 COUNTS) FOR 16 BIT MODE OPERATION AND COUNTS 0,9,10,11,12,13,14,15,0 (9 COUNTS) FOR 18 BIT MODE OPERATION.

NOTE: STOPS BIT COUNTER AT TRAILING EDGE OF WORD CLK H WHILE LOOKING FOR THE SYNC PATTERN. COUNTING RESUMES WHEN SYNC DET IS ACTIVE. WORD CLK H WILL GO HIGH AGAIN 6 CLOCKS LATER.

NOTES: 1. STOPS BIT COUNTER TO HOLD OFF GENERATION OF EDL UNTIL ERROR CORRECTION HAS BEEN COMPLETED. 2. ALSO INHIBITS A DRIVE TIMING ERROR DURING ERROR CORRECTION.

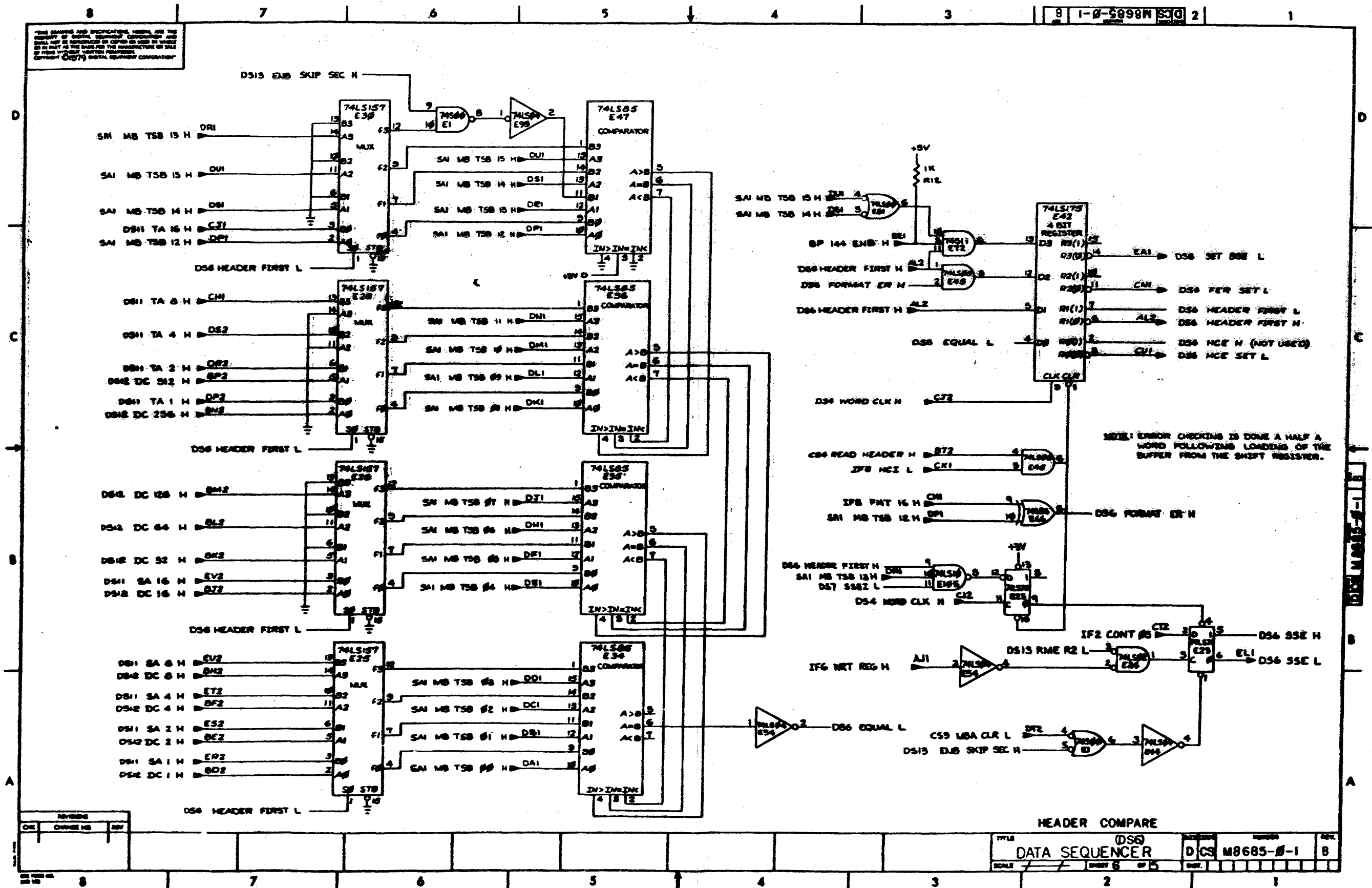
REVISIONS		
CHR	CHANGE NO.	REV

WORD CLOCK/TIMING

TITLE	(DS4)	DATE CODE	NUMBER	REV.
DATA SEQUENCER		DCS	M8685-0-1	8
SCALE	1/1	SHEET	4	OF 15



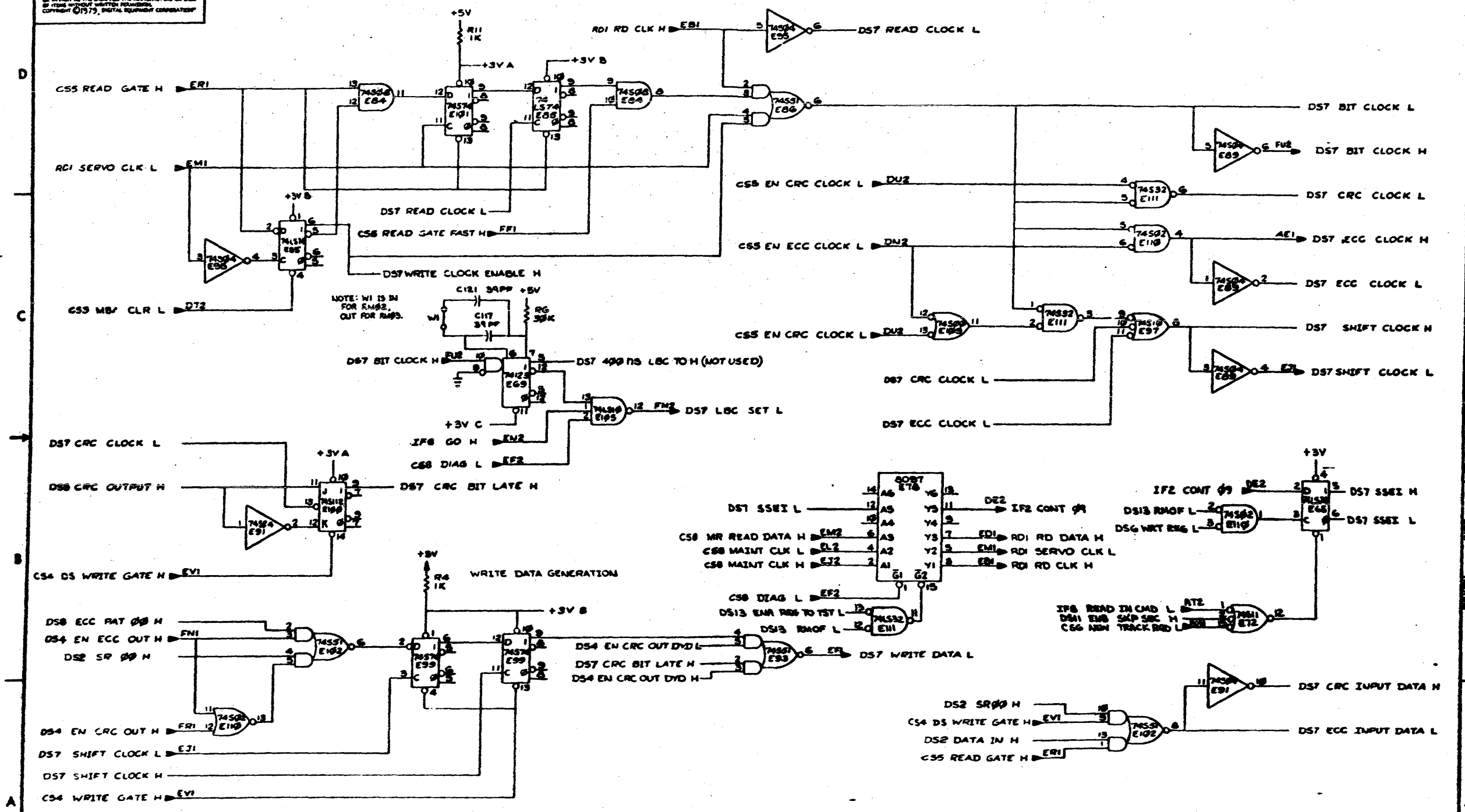
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REV	DATE	BY	CHK

TITLE		DS6	
DATA SEQUENCER		DCS M8685-0-1	
SCALE	SHEET	OF	TOTAL
	6	15	

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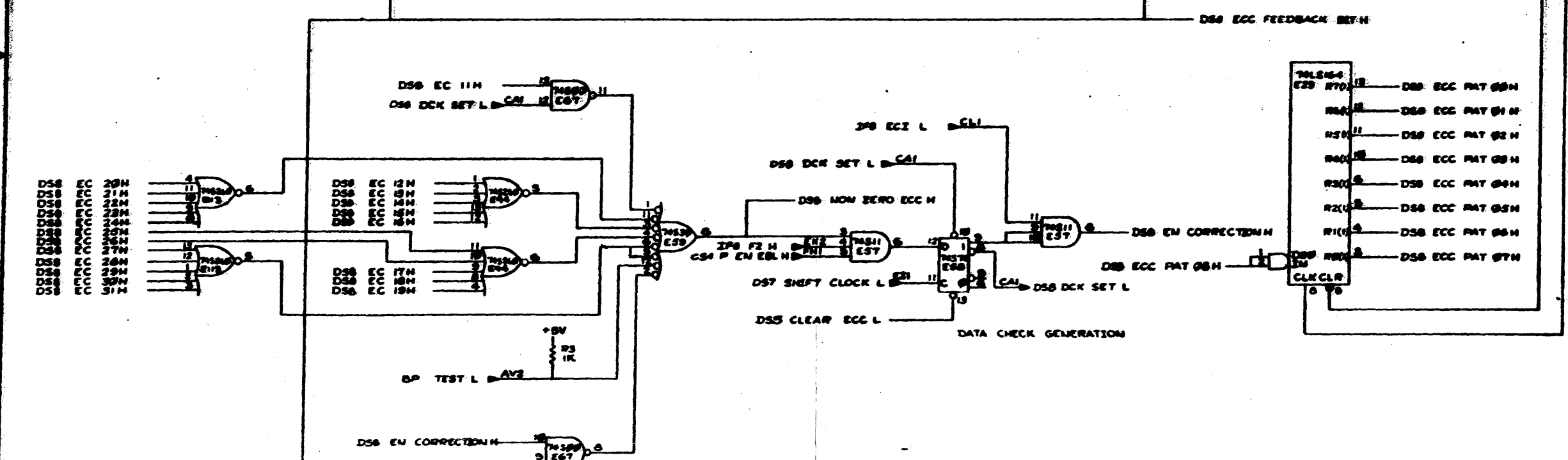
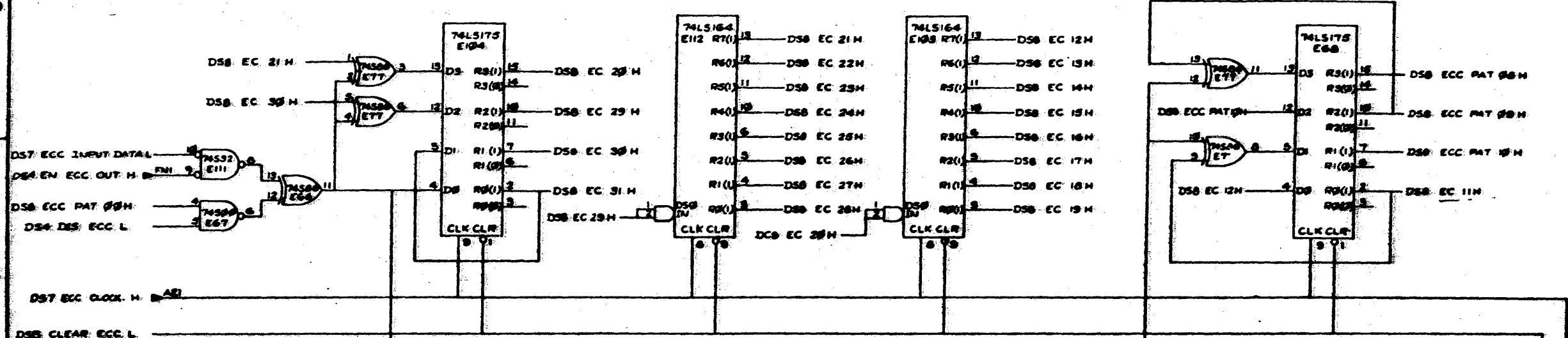


REVISIONS		
CHK	CHANGE NO	REV

TITLE		NUMBER		REV.	
DATA SEQUENCER (DS7)		DCS M8685-0-1		B	
SCALE	1-1	SHEET	7	OF	15

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ECC PATTERN REGISTER



ECC PATTERN REGISTER AND DCK GENERATION

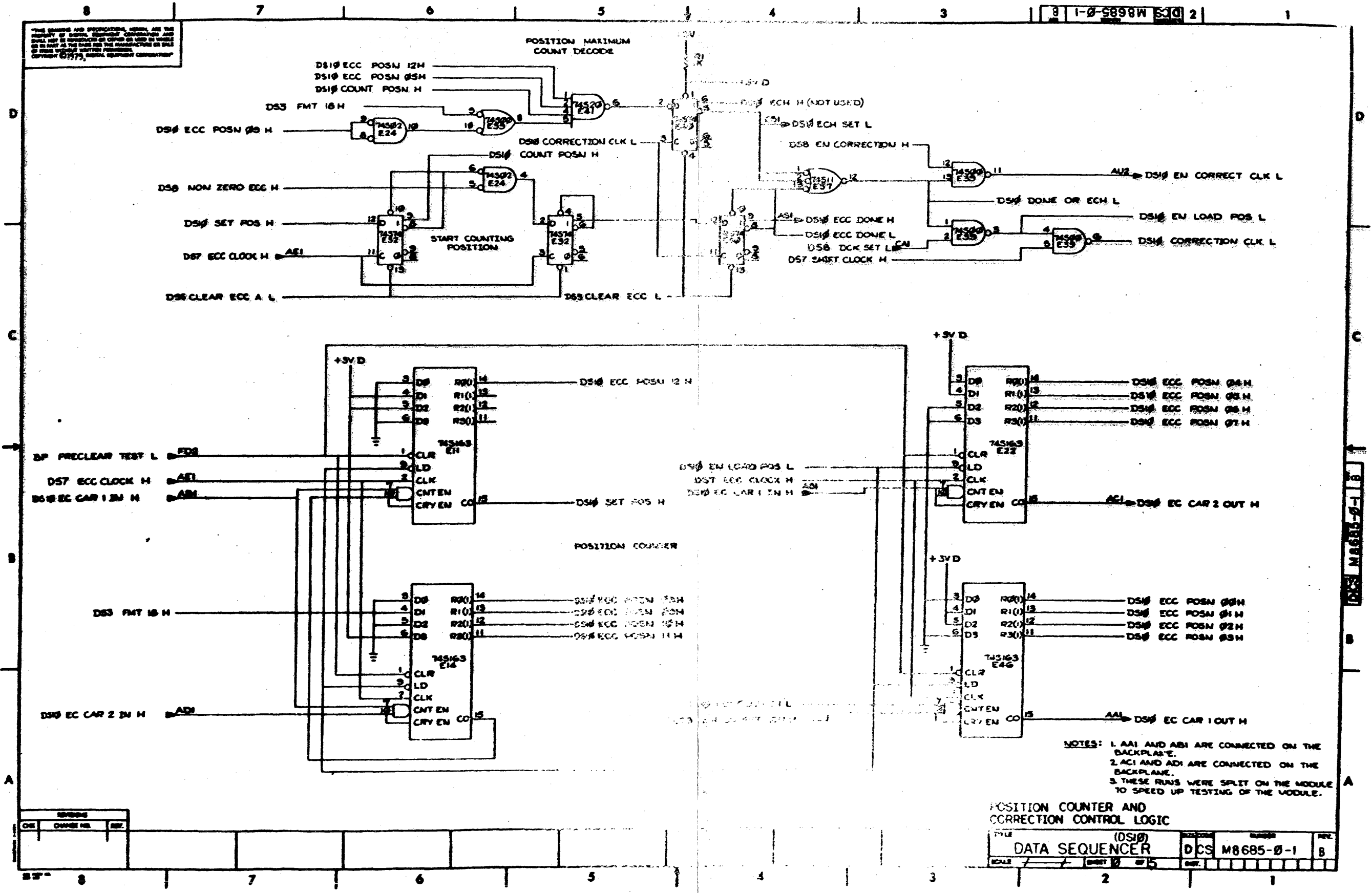
REV	DATE	BY

TITLE	(DS6)	NUMBER	REV.
DATA SEQUENCER	DCS M8685-0-1	1	e
SCALE	SHEET 8	OF 15	





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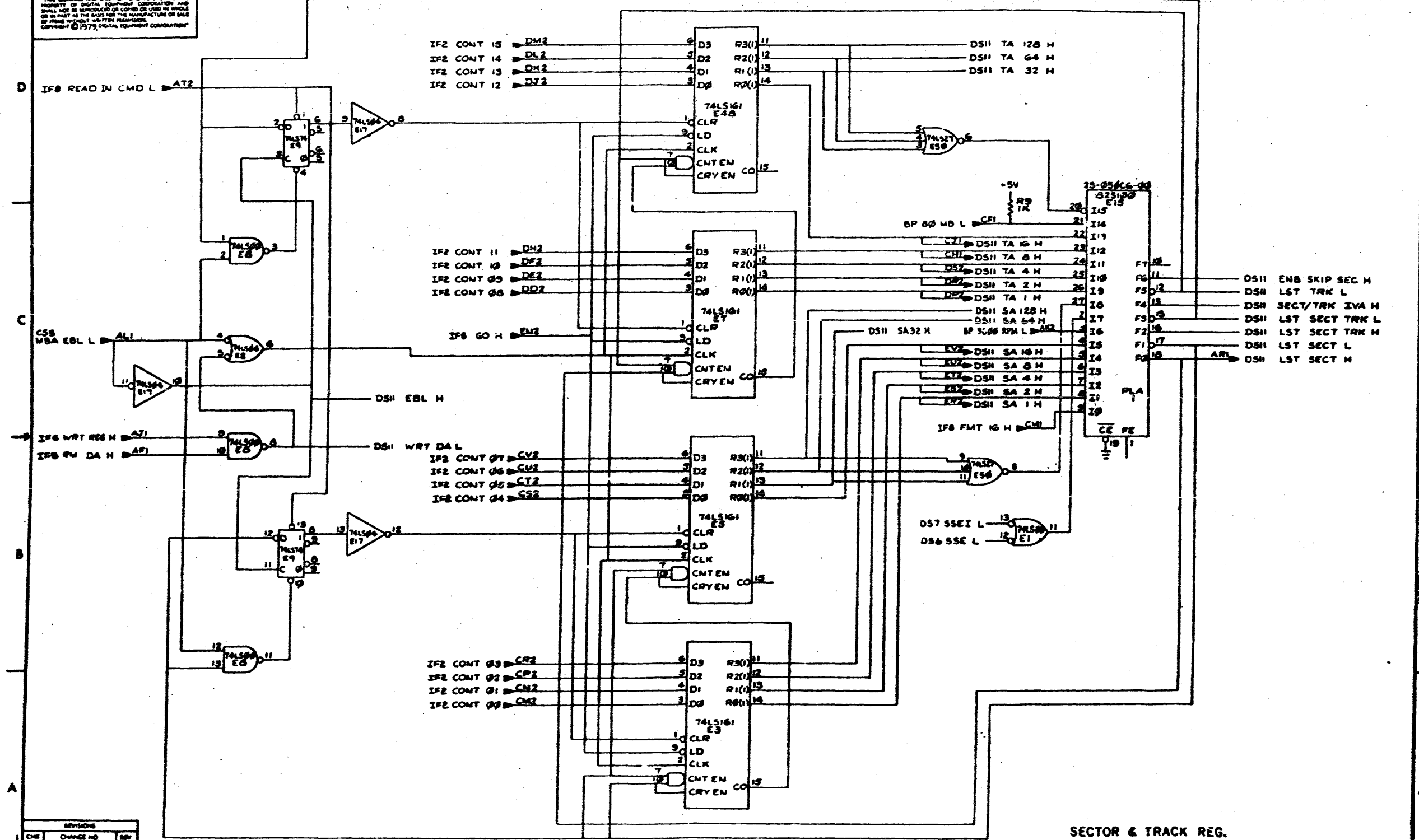
NOTES: 1. AA1 AND AB1 ARE CONNECTED ON THE BACKPLANE.  
 2. AC1 AND AD1 ARE CONNECTED ON THE BACKPLANE.  
 3. THESE RUNS WERE SPLIT ON THE MODULE TO SPEED UP TESTING OF THE MODULE.

POSITION COUNTER AND CORRECTION CONTROL LOGIC

FILE	(DS10)	REV.	
DATA SEQUENCER		DCS M8685-0-1	B
SCALE	1	SHEET 2	OF 5

REV.	DATE	BY

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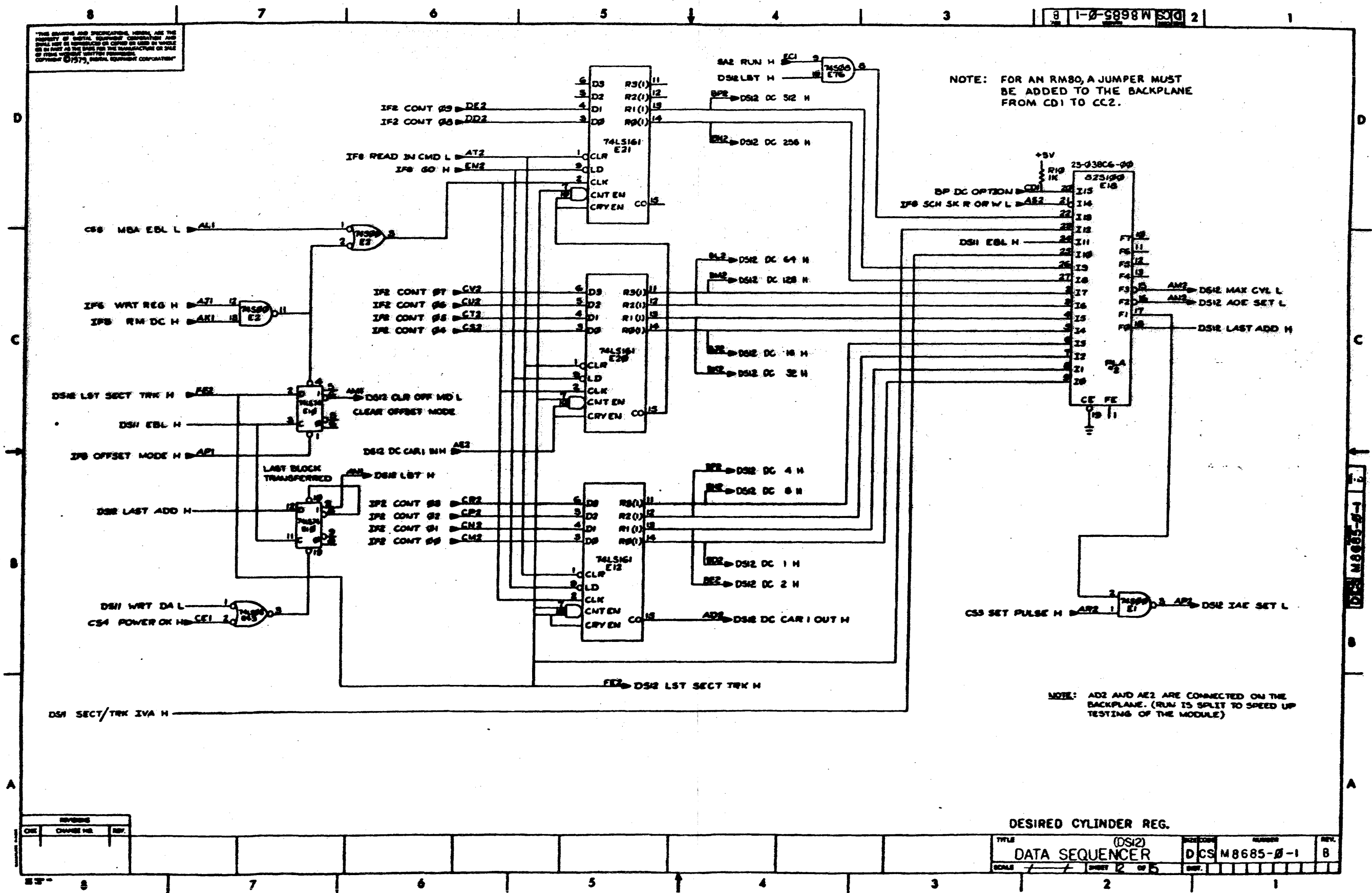
REVISIONS		
CHK	CHANGE NO	REV

SECTOR & TRACK REG.

TITLE	DS10	DATE		NUMBER		REV.	
DATA SEQUENCER		DCS	M8685-B-1			E	
SCALE		SHEET	1	OF	5		

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1-0-5898 W SCD 2



NOTE: FOR AN RM80, A JUMPER MUST BE ADDED TO THE BACKPLANE FROM CD1 TO CC2.

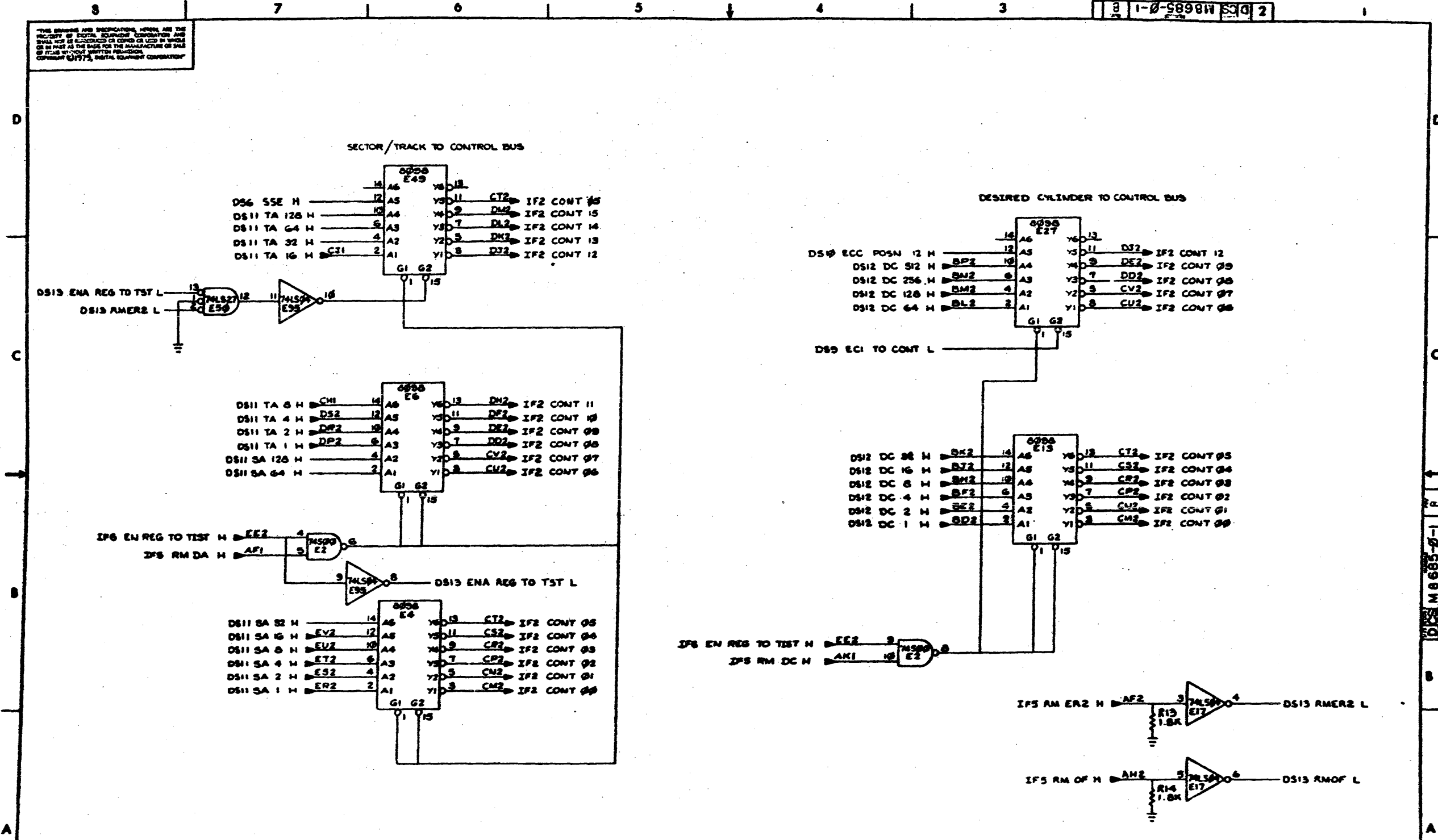
NOTE: AD2 AND AE2 ARE CONNECTED ON THE BACKPLANE. (RUN IS SPLIT TO SPEED UP TESTING OF THE MODULE)

REVISING		
CHK	CHANGE NO.	REV.

TITLE		PAGE NO.		NUMBER		REV.
DATA SEQUENCER (DS2)		DCS M8685-β-1		8		8
SCALE	1	SHEET	2	OF	5	

DCS M8685-β-1

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REV	CHANGE NO.	DATE

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1-0-5898W 2

AA1	DS10 EC CAR 1 OUT M	BA1	DS3 MB 00 L	CA1	DS8 DCK SET L	DA1	SA1 MB TSB 00 M	EAI	DS6 SET RSE L	FA1	CS4 P HEADER AREA M
AB1	DS10 EC CAR 1 IN M	BB1	DS3 MB 01 L	CB1	CS3 DTE SET L	DB1	SA1 MB TSB 01 M	EB1	RD1 RD CLK M	FB1	SPARE
AC1	DS10 EC CAR 2 OUT M	BC1	DS3 MB 02 L	CC1	CS3 SECT/INDEX L	DC1	SA1 MB TSB 02 M	EC1	SAR RUN M	FC1	CS4 P DATA AREA M
AD1	DS10 EC CAR 2 IN M	BD1	DS3 MB 03 L	CD1	BP DC OPTION	DD1	SA1 MB TSB 03 M	ED1	RD1 RD DATA M	FD1	DS5 CRC DONE M
AE1	DS7 ECC CLOCK M	BE1	DS3 MB 04 L	CE1	CS4 POWER ON M	DE1	SA1 MB TSB 04 M	EE1	BP 144 ENB M	FE1	CS4 P DATA EN SCLN M
AF1	IFS RM DA M	BF1	DS3 MB 05 L	CF1	BP 80 MB L	DF1	SA1 MB TSB 05 M	EF1	DS7 WRITE DATA L	FF1	CS5 READ GATE FAST M
AG1	CS6 NEW TRK RQD L	BH1	DS3 MB 06 L	CH1	DSH TA 8 M	DH1	SA1 MB TSB 06 M	FH1	SPARE	GH1	CS4 P EN EBL M
AJ1	IFS WRT REG M	BJ1	DS3 MB 07 L	CJ1	DSH TA 16 M	DJ1	SA1 MB TSB 07 M	EJ1	DS7 SHIFT CLOCK L	FJ1	CS4 LAST READ DATA L
AK1	IFS RM DC M	BK1	DS3 MB 08 L	CK1	IFS HCL L	DK1	SA1 MB TSB 08 M	EK1	SPARE	FK1	CS4 P READ GATE M
AL1	CS6 MBA EBL L	BL1	DS3 MB 09 L	CL1	IFS ECI L	DL1	SA1 MB TSB 09 M	EL1	DS6 SSE L	FL1	SPARE
AM1	DS2 CLR OFF MB L	BM1	DS3 MB 10 L	CM1	IFS FMT 16 M	DM1	SA1 MB TSB 10 M	EM1	RD1 EBL CLK L	FM1	CS4 P LFS M
AN1	DS2 LBT M	BN1	DS3 MB 11 L	CN1	DS8 FER SET L	DN1	SA1 MB TSB 11 M	EN1	SPARE	GN1	DS4 EN ECC OUT M
AP1	IFS OFFSET MODE M	BP1	DS3 MB 12 L	CP1	DS8 WCF SET L	DP1	SA1 MB TSB 12 M	EP1	DS3 SYNC PAR SET M	FP1	CS4 P EN CRC OUT M
AQ1	DSH LST SECT M	BR1	DS3 MB 13 L	CR1	DS8 MB SCLK L	DR1	SA1 MB TSB 13 M	ER1	CS6 READ GATE M	FR1	DS4 EN CRC OUT M
AS1	DSH ECC DONE M	BS1	DS3 MB 14 L	CS1	DSH ECH SET L	DS1	SA1 MB TSB 14 M	ES1	CS4 PRECLEAR CAC/ECC L	FS1	CS4 P EN ECC OUT M
AT1	GND	BT1	GND	CT1	GND	DT1	GND	ET1	CS4 P EN LOAD SH M	FT1	GND
AU1	IFS RM ECI M	BU1	DS3 MB 15 L	CU1	DS8 HCE SET L	DU1	SA1 MB TSB 15 M	FU1	CS4 P EN LOAD SH M	FU1	SPARE
AV1	IFS RM ECR M	BV1	DS3 MB 16 L	CV1	DS8 HCR SET L	DV1	SA1 MB TSB 16 M	FV1	CS4 DE WRITE GATE M	FV1	SPARE

AA2	+5V	BA2	+5V	CA2	+5V	DA2	+5V	EAI	+5V	FA2	+5V
AB2	-15V	BB2	-15V	CB2	-15V	DB2	-15V	EB2	-15V	FB2	-15V
AC2	GND	BC2	GND	CC2	GND	DC2	GND	EC2	GND	FC2	GND
AQ2	DS2 DC CAR 1 OUT M	BQ2	DS2 DC 1 M	CQ2	CS4 EN SYNC M	DQ2	IFS CONT 00	EQ2	IFS ABORT L	FQ2	BP PRECLEAR TEST L
AR2	DS12 DC CAR 1 IN M	BR2	DS2 DC 2 M	CR2	SBR WRT CLK B M	DR2	IFS CONT 01	ER2	IFS EN REG TO TEST M	FR2	DS2 LST SECT TRK M
AP2	IFS RM ER2 M	BP2	DS2 DC 4 M	CP2	SAR WRT CLK A M	DP2	IFS CONT 12	EP2	CS6 DS4 L	FP2	IFS DCK M
AH2	IFS RM OF L	BH2	DS2 DC 8 M	CH2	DS8 SYNC DET M	DH2	IFS CONT 11	EH2	IFS F0 M	FH2	DS5 CRC EN M
AJ2	SPARE	BJ2	DS2 DC 16 M	CJ2	DS4 WORD CLK M	DJ2	IFS CONT 12	EJ2	CS6 MAINT CLK M	FJ2	CS2 FORMAT M
AK2	BP 3600 RPM L	BK2	DS2 DC 32 M	CK2	DS4 WORD CLK L	DK2	IFS CONT 13	EK2	IFS F2 M	FK2	CS4 P EN CRC L
AL2	DS8 HEADER FIRST M	BL2	DS2 DC 64 M	CL2	DS4 PROM STROBE M	DL2	IFS CONT 14	EL2	CS6 MAINT CLK L	FL2	DS4 WRITE TIME M
AM2	DS8 MAX CYL L	BM2	DS2 DC 128 M	CM2	IFS CONT 00	DM2	IFS CONT 15	EM2	CS6 MR READ DATA M	FM2	DS7 LBC SET L
AN2	DS8 AOE SET L	BN2	DS2 DC 256 M	CN2	IFS CONT 01	DN2	CS6 EN ECC CLOCK L	EN2	IFS 00 M	FN2	DS4 WORD TIME M
AP2	DS8 IAR SET L	BP2	DS2 DC 512 M	CP2	IFS CONT 02	DP2	DSH TA 1 M	EP2	CS6 RESET 00 L	FP2	SPARE
AQ2	CS3 SET PULSE M	BR2	CS5 TRNSCEIVR EN B M	CR2	IFS CONT 03	DR2	DSH TA 2 M	ER2	DSH SA 1 M	FR2	DS3 EN PAR GEN M
AR2	IFS SCH SK R OR W L	BS2	CS5 TRNSCEIVR EN A M	CS2	IFS CONT 04	DS2	DSH TA 4 M	ES2	DSH SA 2 M	FS2	DS3 EN PAR CHECK M
AT2	IFS READ IN CMD L	BT2	CS4 READ HEADER M	CT2	IFS CONT 05	DT2	CS3 MBA CLR L	ET2	DSH SA 4 M	FT2	DS3 PARITY COO M
AU2	DS8 EN CORRECT CLK L	BU2	SA2 MB SYNC PAR M	CU2	IFS CONT 06	DU2	CS6 EN CRC CLOCK L	FU2	DSH SA 8 M	FU2	DS7 01T CLOCK M
AV2	BP TEST L	BV2	DS3 MB 17 L	CV2	IFS CONT 07	DV2	SA1 MB TSB 17 M	FV2	DSH SA 16 M	FV2	DS4 ECC WRD CNT INH L

REVISIONS		
CHG	CHANGE NO	REV

1/0 SIGNAL LIST

TITLE	(DS14)	NUMBER	REV
DATA SEQUENCER	0 CS	M8685-0-1	1
SCALE	1/4	SHEET 14	OF 15



LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	D-MD-5014029-0-0	5014029-00	DRILL AND ETCH BRD	1	
2		1000010-00	39.0 MMF 100V 5X200PPM MICA	2	C117,C121
3		1001610-00	.01 MFD 50V +80-20% 25U CER	113	C1-C110,C118-C120
4		1017472-00	10 MFD 35V +50-10% AL EL	6	C111-C116
5		1210711-02	/REPLACED BY 12-16988-02	1	
6		1300365-00	1.0 K .25 W 5.0 % CC	11	R1-R5,R7-R12
7		1300398-00	1.80 K .25 W 5.0 % CC	2	R13,R14
8		1302394-00	30.0 K .25 W 5.0 % CC	1	R6
9		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	1	E69
10		1910532-00	74S00 NAND GATE-QUAD 2IN	7	E1,E2,E39,E56,E63,E67,E109
11		1910534-00	74S04 INVERTER GATE-HEX 1I	3	E89,E91,E95
12		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E97,E108
13		1910537-00	74S11 AND GATE-TRIPLE 3INP	3	E57,E87,E72
14		1910539-00	74S20 NAND GATE-DUAL 4INPU	2	E41,E80
15		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	12	E32,E40,E51,E58,E70,E82,E83,E88, CONT E98,E101,E107,E99
16		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	E100
17		1910552-00	74S194 SHIFT REG.,4BIT RIGH	1	E75
18		1911527-00	8097 BUFFER GATE-HEX 2INP	3	E71,E73,E78
19		1911712-00	74S51 AND-OR GATE-INVERT D	3	E86,E93,E102
20		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	2	E46,E77
21		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	E110
22		1912389-00	74S08 AND GATE-QUAD 2IN,PO	3	E76,E84,E106
23		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E8,E81
24		1912801-00	LS02 NOR-GATE-QUAD 2IN	1	E24
25		1912803-00	LS04 INVERTER GATE-HEX 1I	5	E17,E19,E33,E44,E54
26		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	E43,E45
27		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E105
28		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E50
29		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E96

REVISION HISTORY		BASIC PART NO: M8685		DRN:	DON BILODEAU	DATE:	8-AUG-79	D I G I T A L			
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DON BILODEAU	DATE:	8-AUG-79	TITLE PARTS LIST			
	INITIAL	A	SECTION.VARIATION INDEX					DATA SEQUENCER			
RPM 1550	SW M8685-CX001B	B	[A] 00								
			[B]								
			[C]	DES.ENG:	S. WITHROW	DATE:	8-AUG-79				
			[D]								
			[E]					DOCUMENT NUMBER			
			[F]	RESP.ENG.:	S. WITHROW	DATE:	2 NOV 79	SIZE!	CODE!	NUMBER	REV
			[G]								
			[H]								
			[I]	MFG.ENG.:	A. MORGAN	DATE:	14 DEC 79	K	PL	M8685-0-DBP	B
			[J]								
			[K]								
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #:	
			[N]	D-UA-M8685-0-0		B-DD-M8685-0		Z0912B.PLS		18	
			[O]								

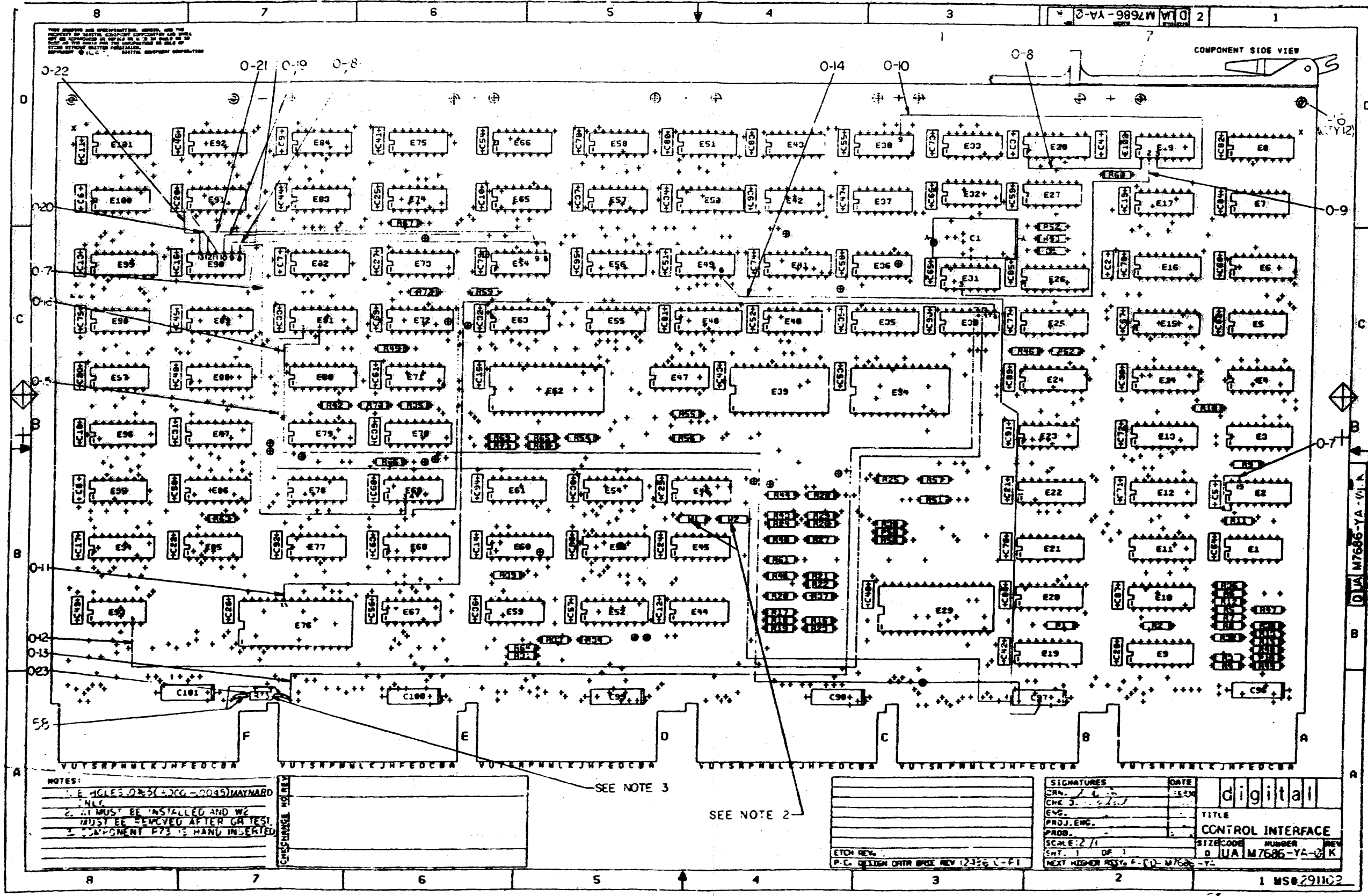
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	6	E9,E10,E23,E65,E79,E85
31	31	1912828-00	LS85 COMPARATOR,4BIT MAGN	4	E34-E36,E47
32	32	1912847-00	LS157 MUX 1 OF 2(QUAD)	4	E25,E26,E28,E30
33	33	1912849-00	LS161 COUNTER,SYNCHR,4BIT	7	E3,E5,E7,E12,E20,E21,E48
34	34	1912850-00	LS164 SHIFT REG. 8BIT SERI	3	E29,E103,E112
35	35	1912853-00	LS175 FF-D QUAD	3	E42,E68,E104
36	36	1913340-00	74S32 OR GATE-QUAD 2IN	1	E111
37	37	1913474-00	9401 GENERATOR/CHECKER CR	1	E90
38	38	1914082-00	74S163 COUNTER,SYNCH UP/DOW	5	E11,E14,E22,E46,E61
39	39	1914083-00	8542 REGISTER,I/O-QUAD,TR	5	E52,E53,E60,E62,E64
40	40	1914084-00	74S299 SHIFT REG.,8BIT RIGH	2	E55,E74
41	41	1914085-00	74S260 NOR GATE-DUAL,POS	2	E94,E113
42	42	1914086-00	74S30 NAND GATE-POS 8IN	2	E59,E92
43	43	1914087-00	8098 BUFFER GATE-HEX 2IN,	9	E4,E6,E13,E16,E27,E31,E37,E38, E49
44	44	23050C6-00	C6-01	1	E15
45	45	23038C6-00	C6-01	1	E18
46	46	9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
47	47	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
48	48	9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
49	49	9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	

CONT

! D ! I ! G ! I ! T ! A ! L !	! T I T L E !	! S I Z E !	! C O D E !	! D O C U M E N T N U M B E R !	! R E V !
	DATA SEQUENCER				
			K PL	M8685-0-DBP	B





NOTES:  
 1. ICLES 2-3 (200-0049) MAYNARD  
 2. IT MUST BE INSTALLED AND W2  
 MUST BE REMOVED AFTER GR TEST.  
 3. COMPONENT P73 IS HAND INSERTED

SEE NOTE 3

SEE NOTE 2

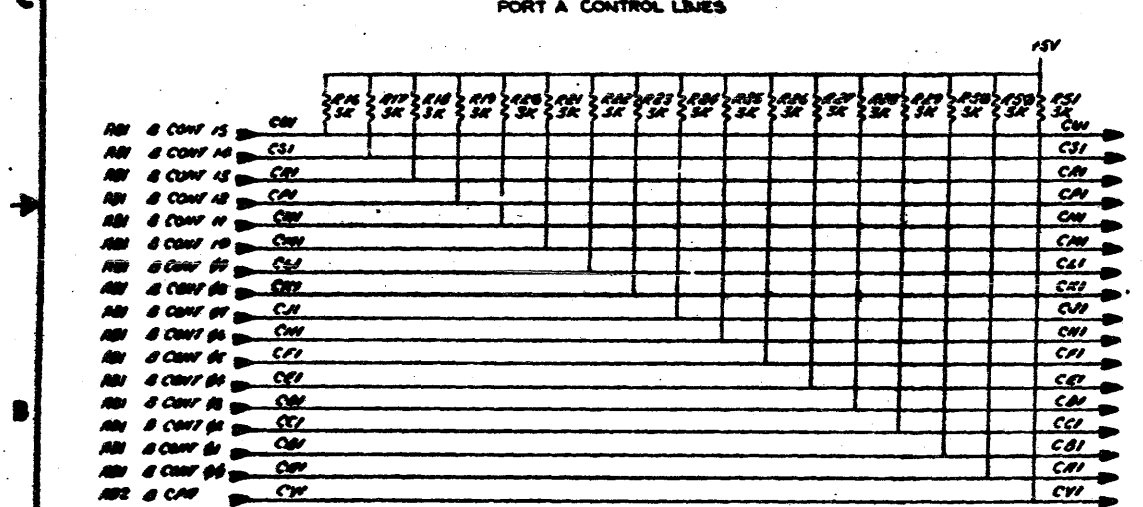
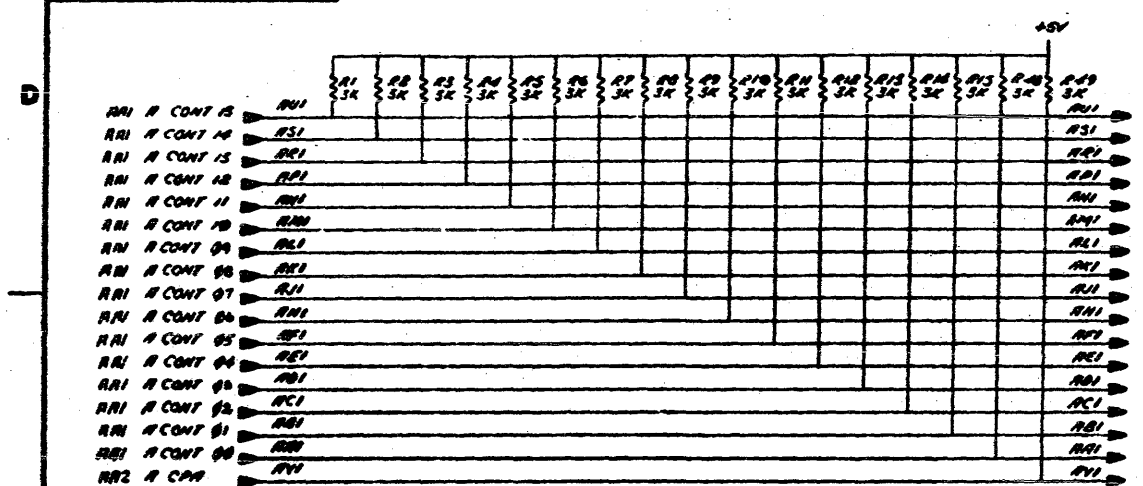
ETCH REV.	
P.C. DESIGN DATA BRG REV 12356 L-F1	

SIGNATURES	DATE
DRG. <i>[Signature]</i>	1-67
CHK D. <i>[Signature]</i>	
ENG.	
PROJ. ENG.	
PROD.	
SCALE: 2/1	
SHT. 1 OF 1	
NEXT HIGHER REV. P.C. M7686-YA	

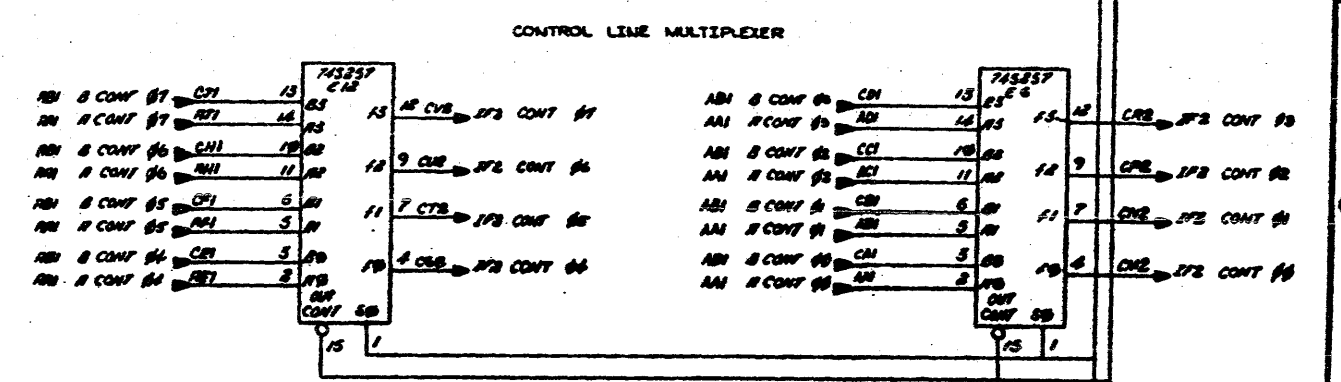
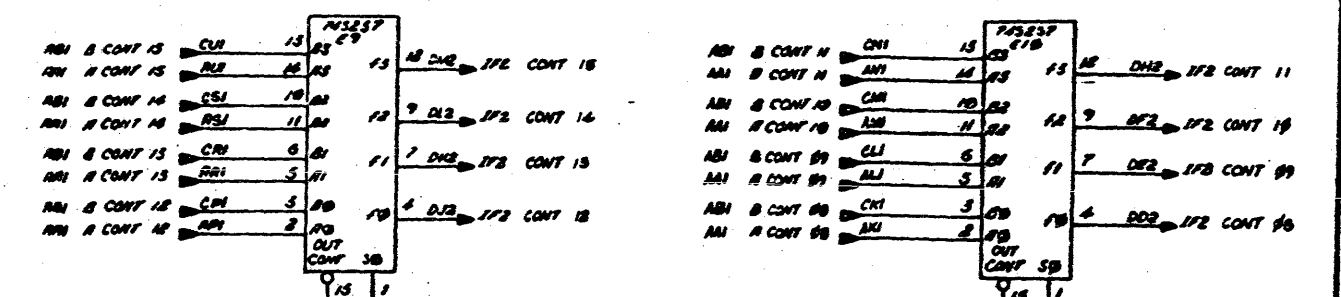
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TITLE	
CONTROL INTERFACE	
SIZE: 008	NUMBER
D IA M7686-YA-01 K	

1 MS0291102

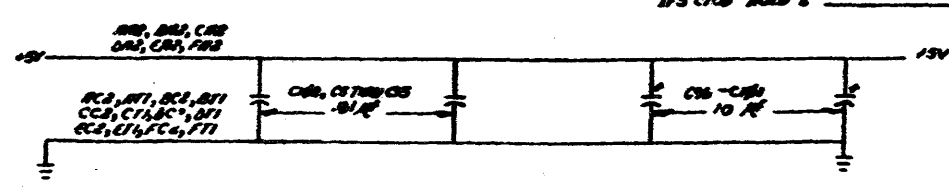
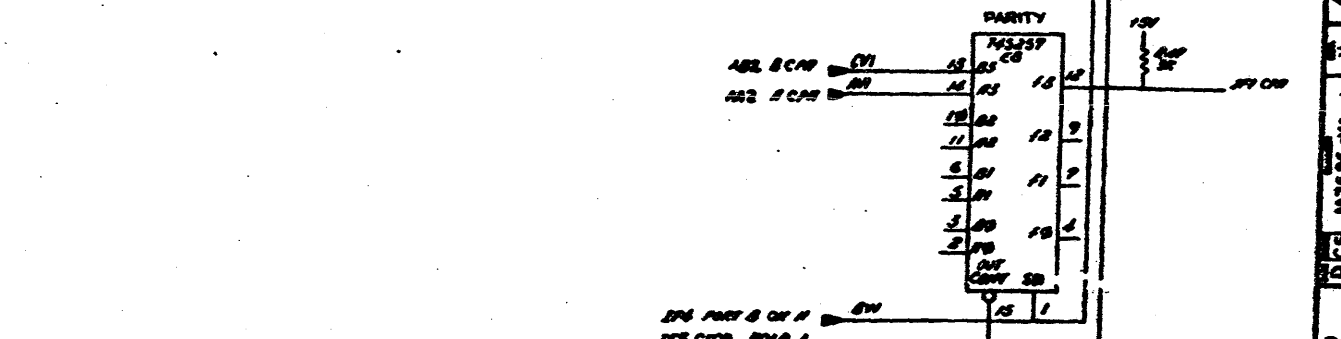
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BM1, BM2, BM3, CM, CM2, DZ2, DZ3  
SPARE PINS



**CONTROL LINE MULTIPLEXER**

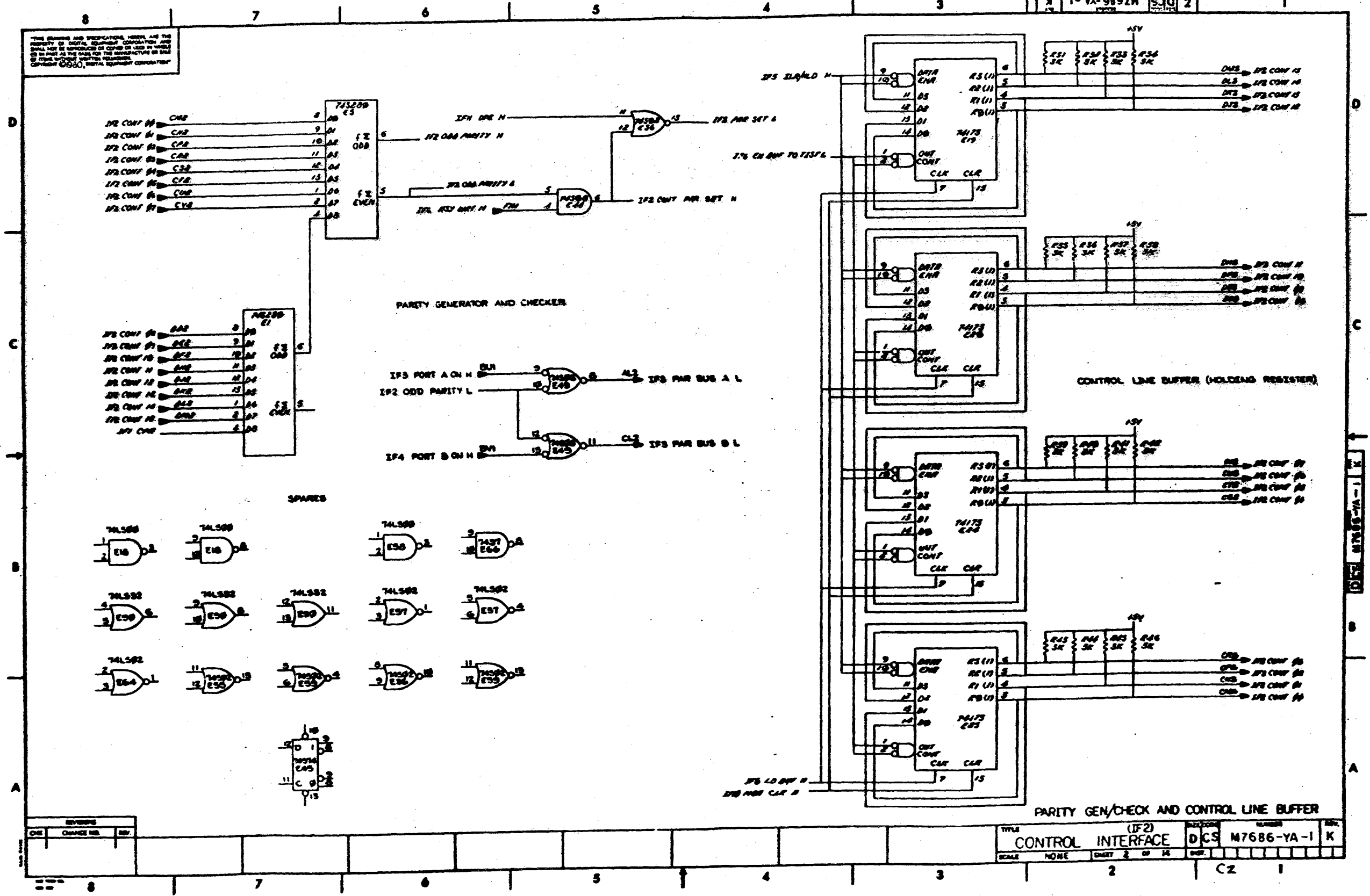


NOTE: SIGNALS NOT SUPPLIED WITH '1' OR '0' ARE MADE BUS SIGNALS WHICH ARE RECEIVED ASSERTED HIGH, AND TRANSMITTED ASSERTED LOW

**CONTROL LINES AND INPUT MULTIPLEXERS**

REV. 1	DATE 11/75	DESIGNED BY	RM05
CHECKED BY	DATE 11/75	TESTED BY	
ENGR.		TITLE	CONTROL INTERFACE (IF1)
PROJ. ENG.			
PROD. ENGR.			
NEXT HIGHER ASSY.			
DD-M7686-YA	REV. 000	SCALE	NONE
SHEET 1 OF 14	DES.	D CS	M7686-YA-1 K

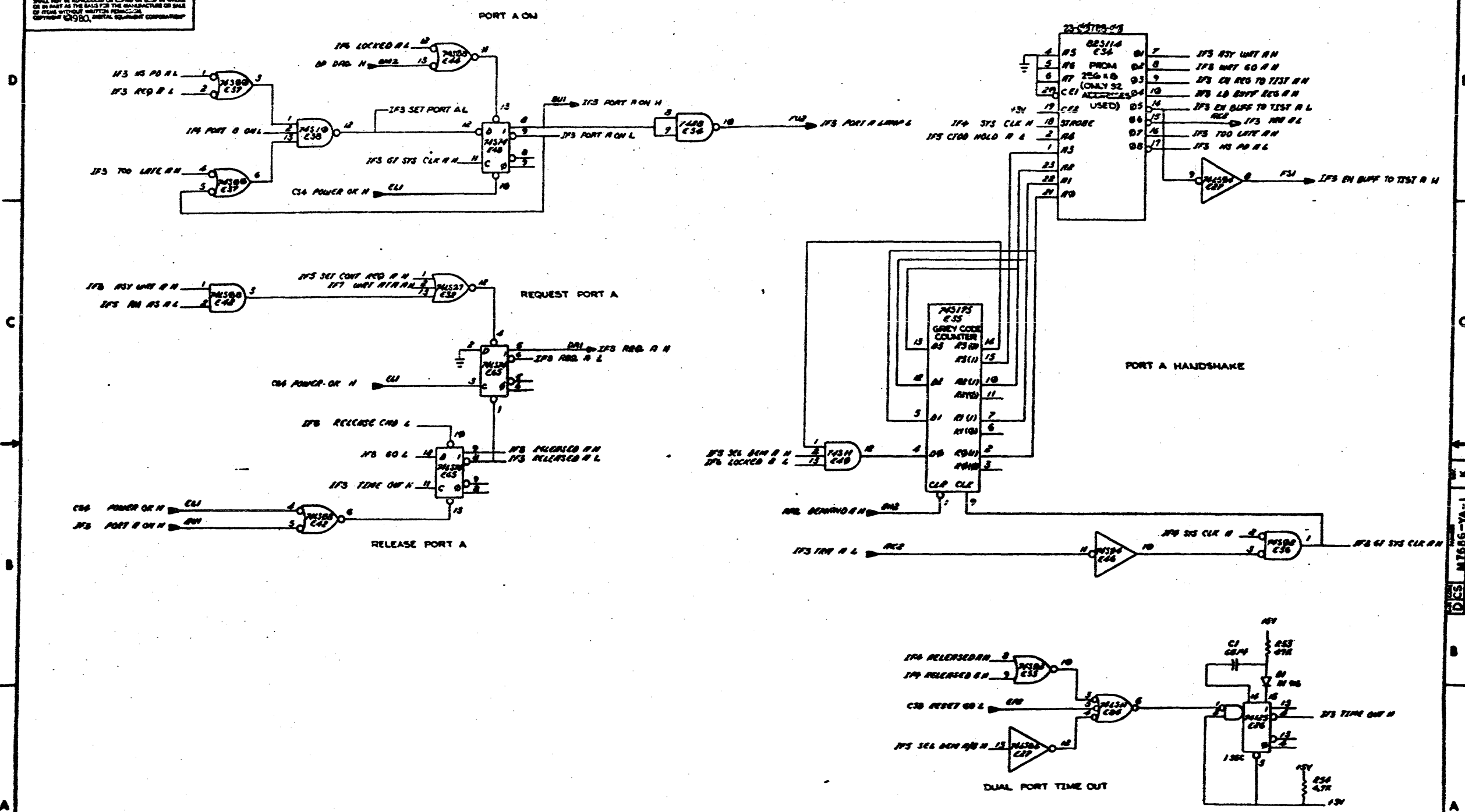
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REVISED	DATE	BY

TITLE	(IF2) CONTROL INTERFACE	NUMBER	DCS M7686-YA-1 K	REV.	
SCALE	NONE	SHEET	2 OF 14		

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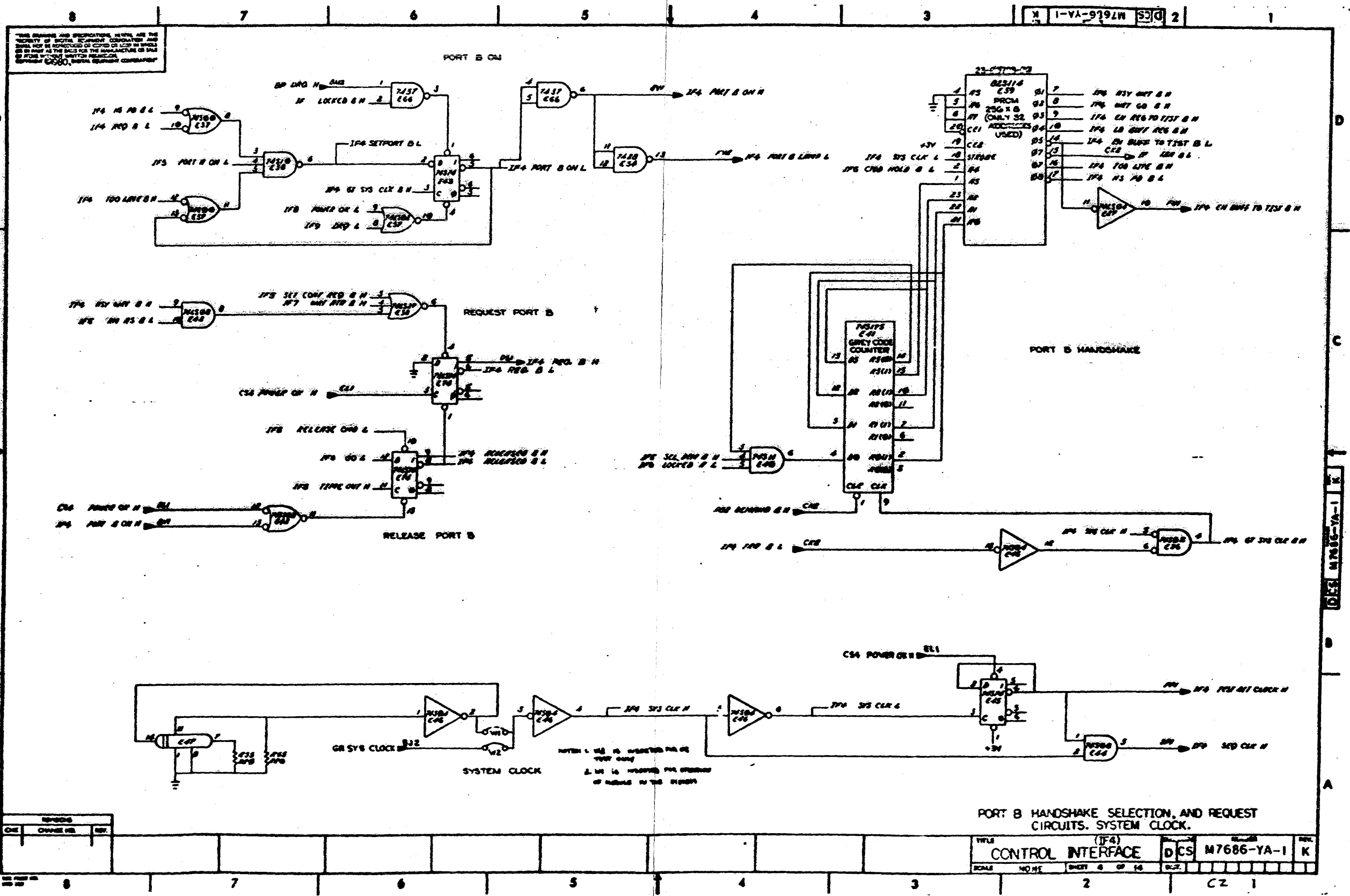


REVISED		
CHK	CHANGE NO.	REV.

TITLE		SCALE		SHEET		OF		TOTAL	
(IFS) CONTROL INTERFACE		NONE		3		OF		14	
DCS M7686-YA-1		K		C2		1			





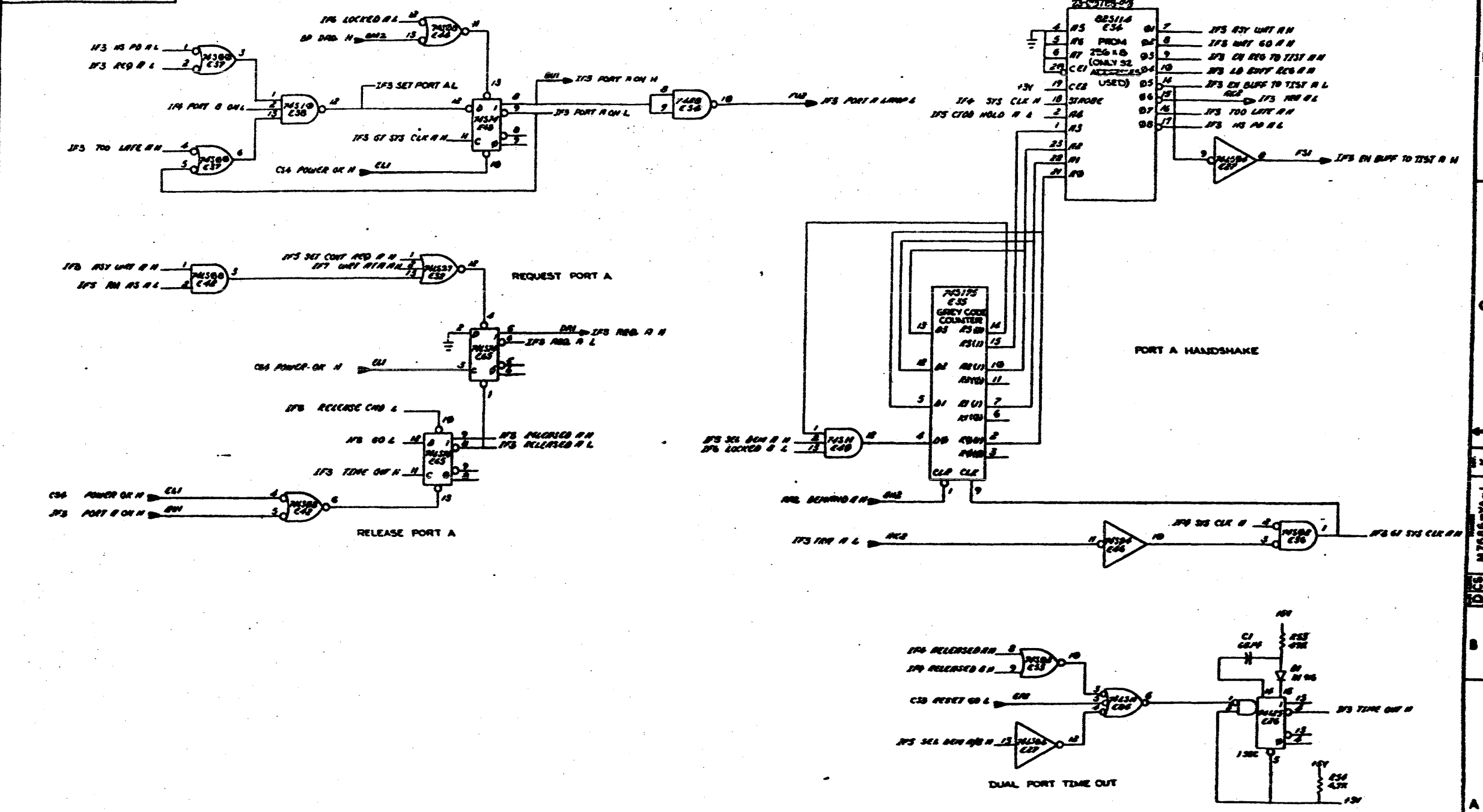


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REV	DATE	BY

TITLE		(IF4)		REV	
CONTROL INTERFACE		DCS M7686-YA-1		K	
SCALE	NO. OF SHEETS	SHEET NO. OF 16	DCS		

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PORT A HANDSHAKE SELECTION, AND REQUEST CIRCUITS. DUAL PORT TIME OUT

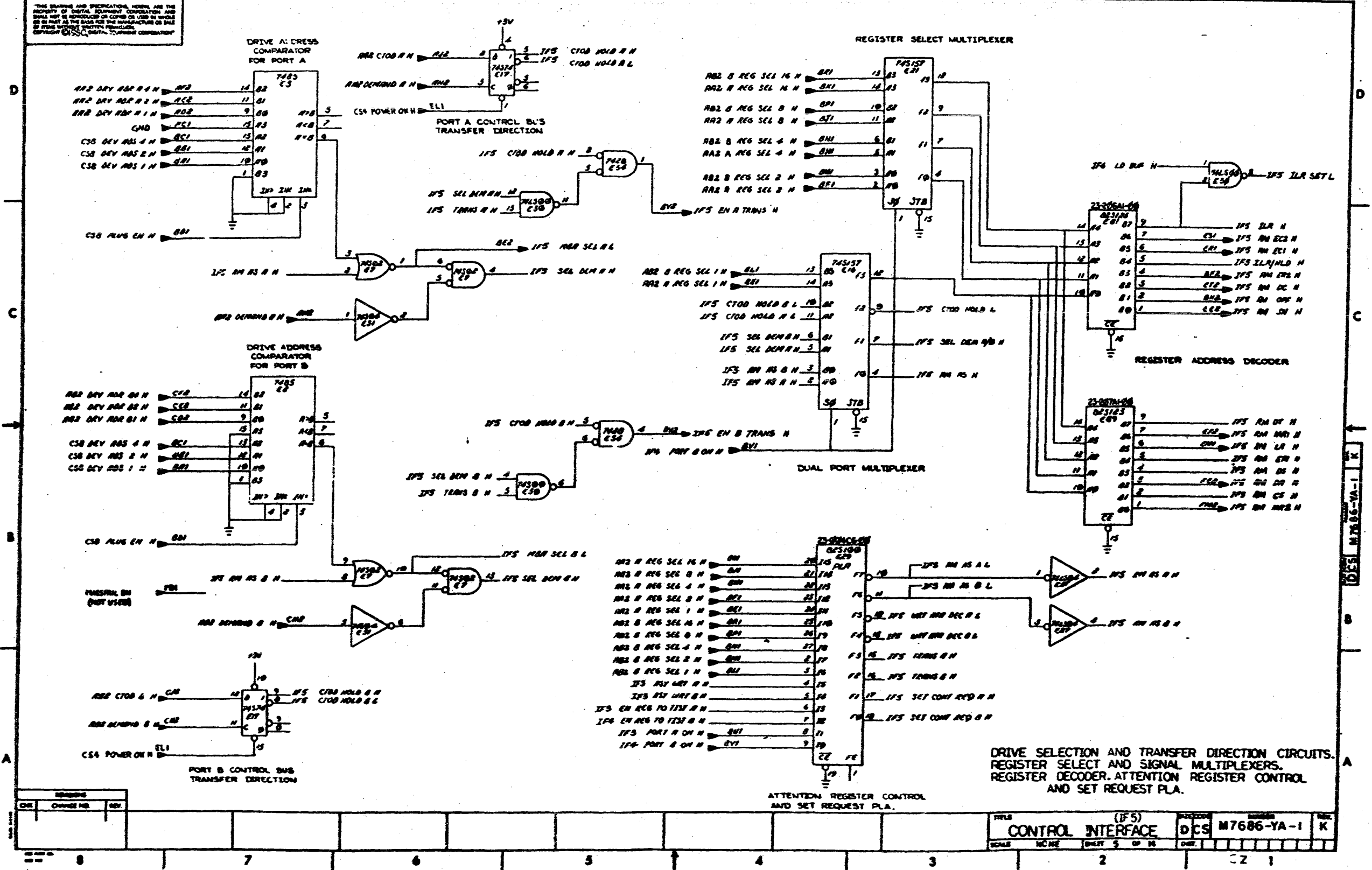
REVISED		
DATE	CHANGE NO.	BY

TITLE		(1F3)		REV.	
CONTROL INTERFACE		DCS		M7686-YA-1	
SCALE	NONE	SHEET	3	OF	14





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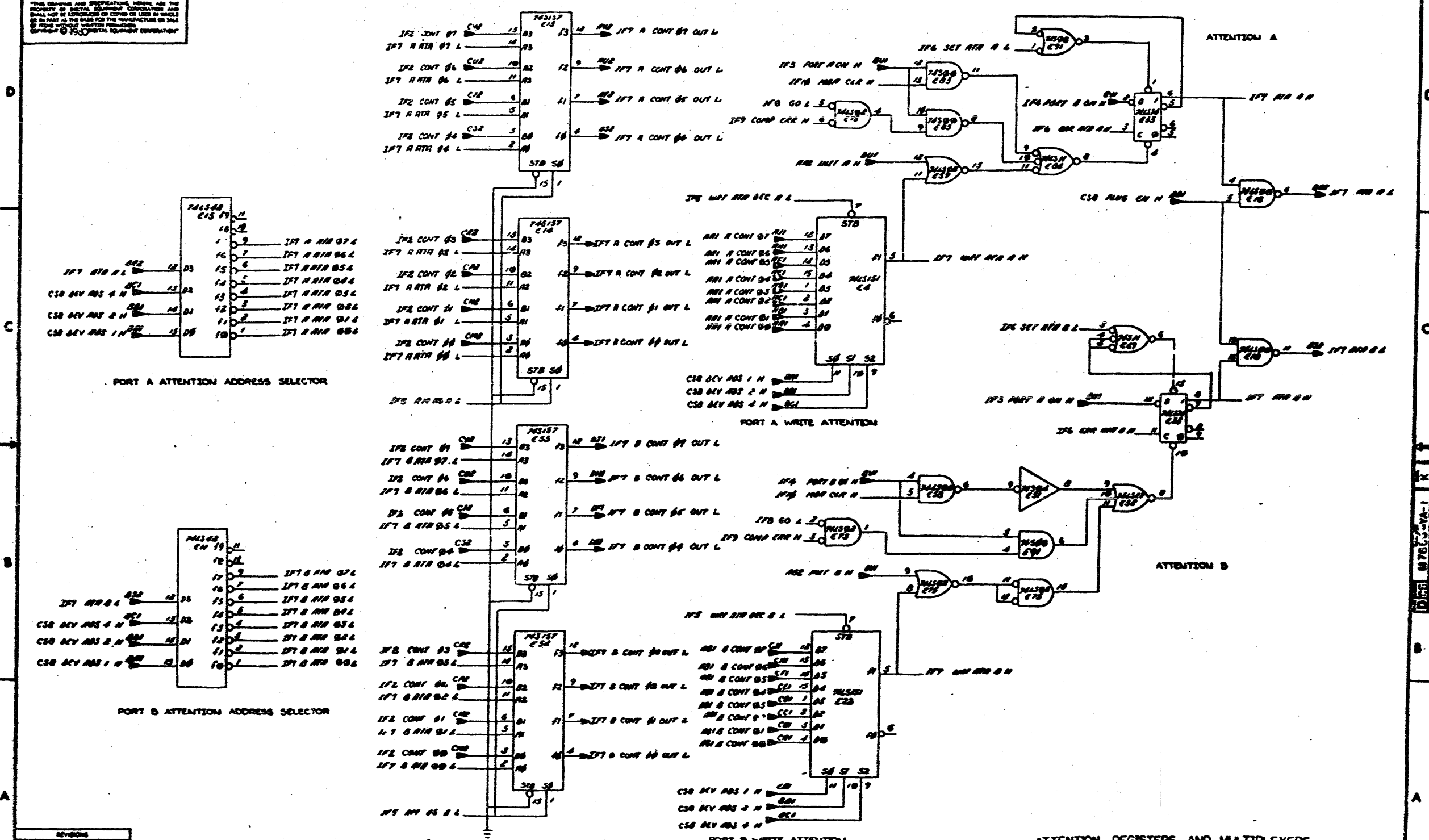
DRIVE SELECTION AND TRANSFER DIRECTION CIRCUITS. REGISTER SELECT AND SIGNAL MULTIPLEXERS. REGISTER DECODER. ATTENTION REGISTER CONTROL AND SET REQUEST PLA.

CHK	CHANGE NO.	REV.

FILE	(IF5)	DESCRIPTION	NUMBER	REV.
CONTROL INTERFACE	DCS	M7686-YA-1	K	
SCALE	SCALE	SHEET 5 OF 10	DATE	



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REVISIONS		
NO.	CHANGE	BY

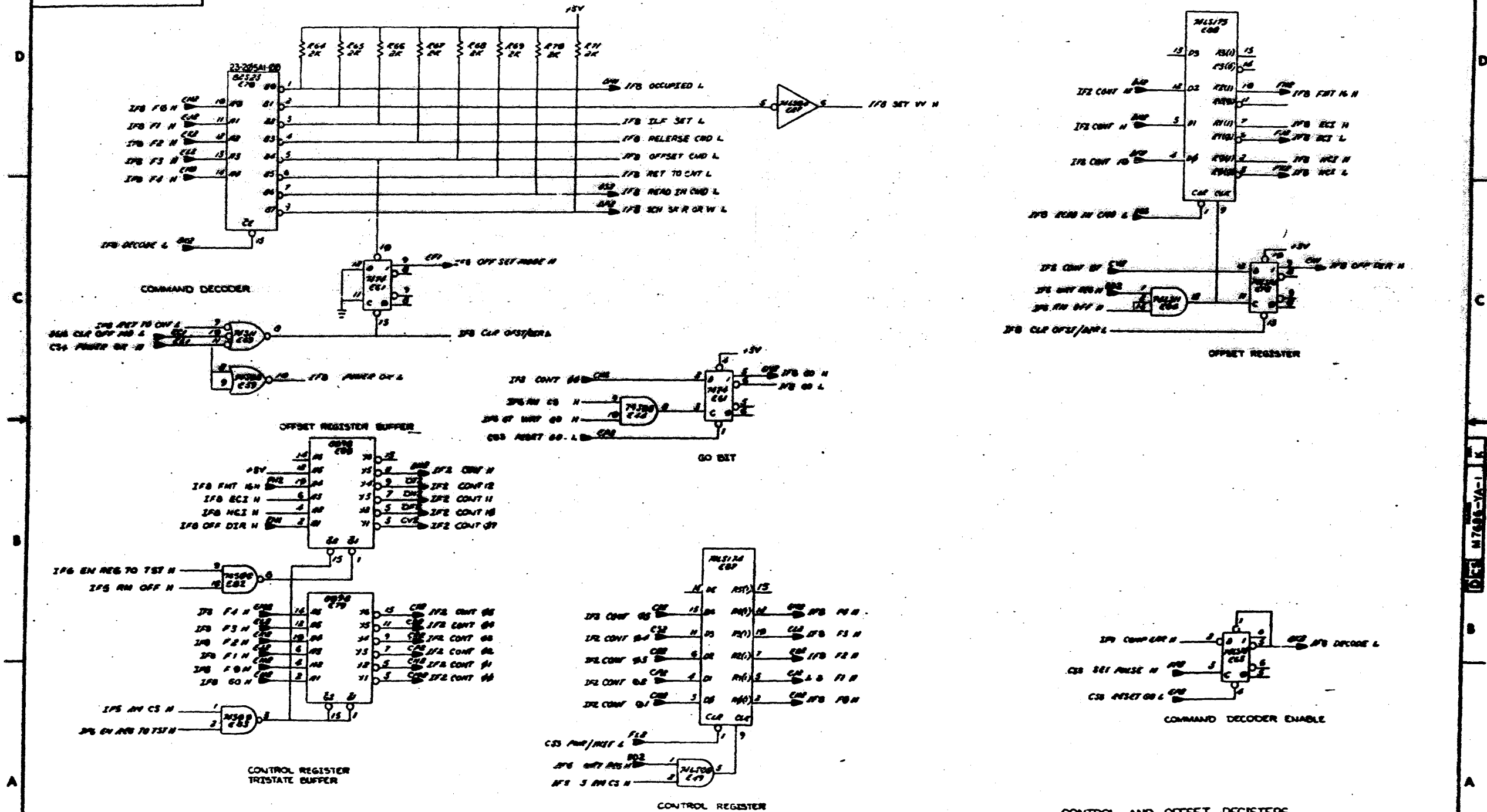
CONTROL/ATTENTION OUTPUT MULTIPLEXER (BITS 00-07)

PORT B WRITE ATTENTION

ATTENTION REGISTERS AND MULTIPLEXERS

SCALE	NONE	SHEET	7 OF 16	DATE		REV.	
CONTROL INTERFACE (IF7)				DCS	M7686-YA-1	K	

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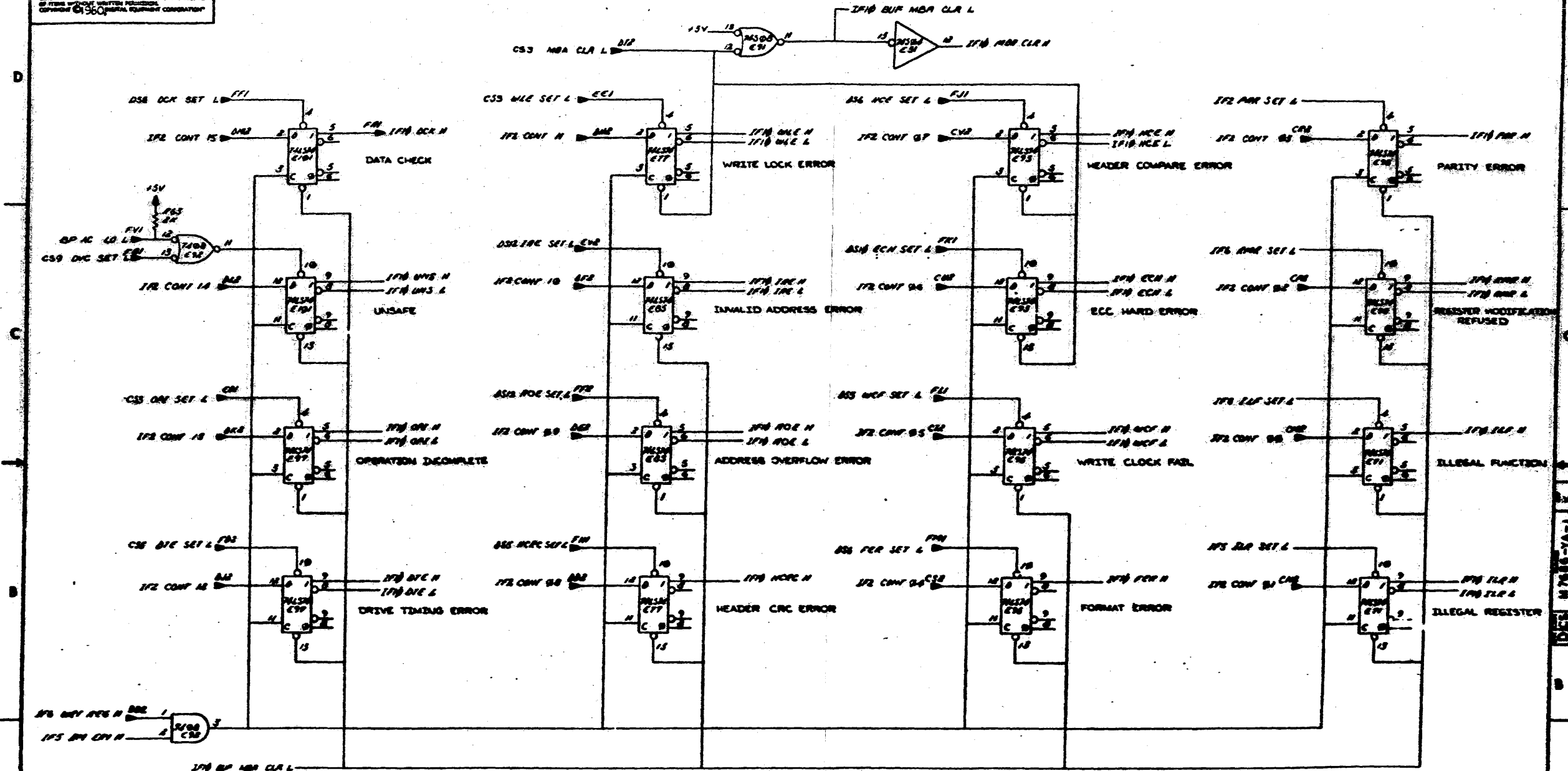
CONTROL AND OFFSET REGISTERS. COMMAND DECODE.

REV	CHG	DATE	BY	CHK	APP	REV	CHG	DATE	BY	CHK	APP	TITLE	SCALE	NO. IN SET	SHEET	OF	NO. SHEETS	DATE	REV.
												CONTROL INTERFACE (IFB)	D/CS					M7686-YA-1	K

M7686-YA-1 K



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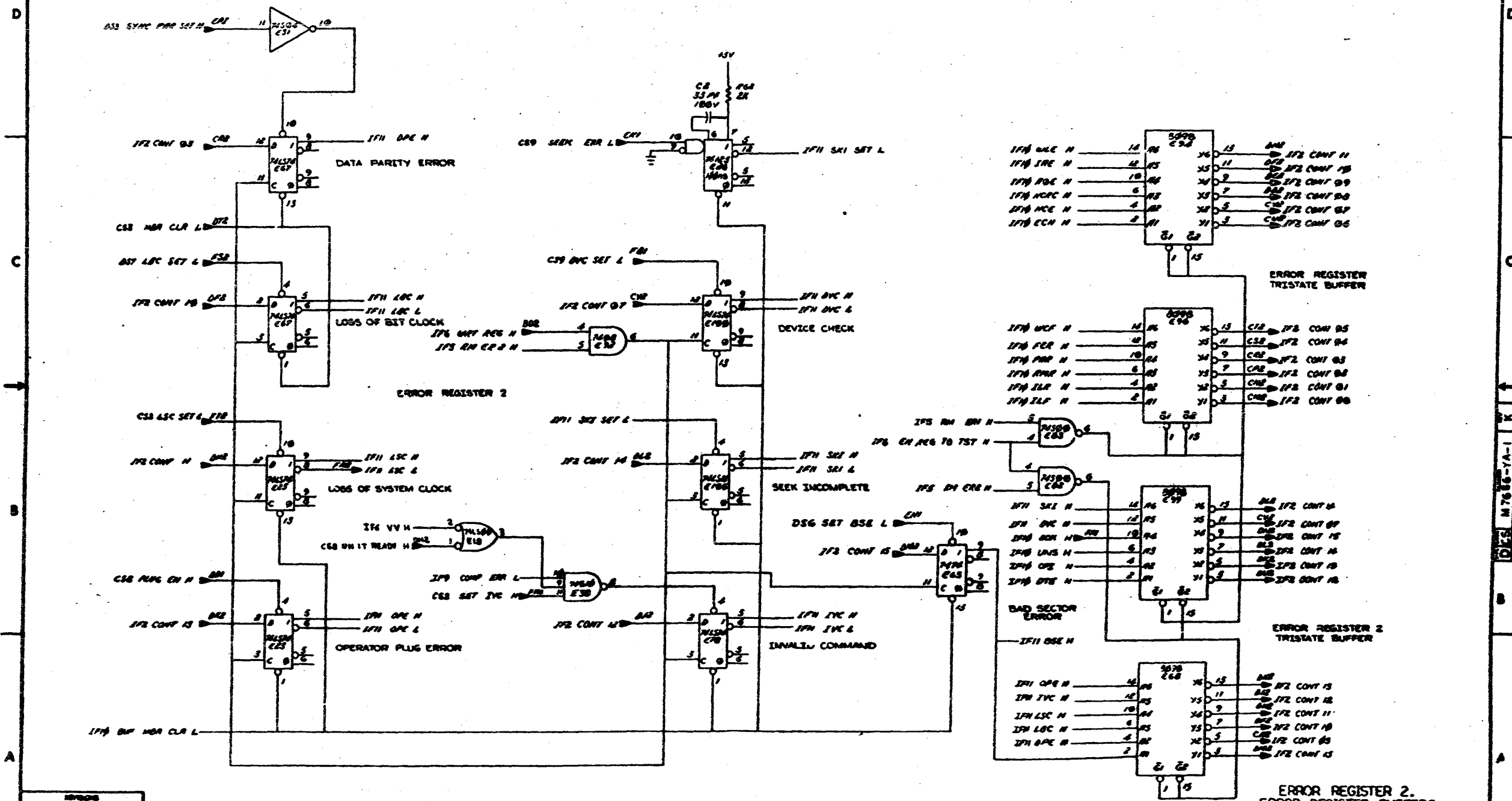


REV.	DATE	BY

ERROR REGISTER 1			
TITLE (1F10) CONTROL INTERFACE			
SCALE	NO. OF SHEETS	SHEET NO. OF 16	REV.

SCS M7686-YA-1 K

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REV	DATE	BY	CHK

TITLE	(IF1)	REV. NO.	
CONTROL INTERFACE	DCS	NO. 11	OF 16
SCALE			



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AA1	AA1 A CONT 00
AB1	AA1 A CONT 01
AC1	AA1 A CONT 02
AD1	AA1 A CONT 03
AE1	AA1 A CONT 04
AF1	AA1 A CONT 05
AG1	AA1 A CONT 06
AH1	AA1 A CONT 07
AI1	AA1 A CONT 08
AL1	AA1 A CONT 09
AM1	AA1 A CONT 10
AN1	AA1 A CONT 11
AO1	AA1 A CONT 12
AP1	AA1 A CONT 13
AQ1	AA1 A CONT 14
AT1	GND
AU1	AA1 A CONT 15
AV1	AA2 A CPA

BA1	CS8 DEV ADS 1 H
BB1	CS8 DEV ADS 2 H
BC1	CS8 DEV ADS 4 H
BD1	CS8 PLUG EN H
BE1	AA2 A REG SEL 1 H
BF1	AA2 A REG SEL 2 H
BH1	AA2 A REG SEL 4 H
BJ1	AA2 A REG SEL 8 H
BK1	AA2 A REG SEL 16 H
BL1	AB2 B REG SEL 1 H
BM1	AB2 B REG SEL 2 H
BN1	AB2 B REG SEL 4 H
BP1	AB2 B REG SEL 8 H
BQ1	AB2 B REG SEL 16 H
BS1	BP LOCK PORT A L
BT1	GND
BU1	IF3 PORT A ON H
BV1	IF4 PORT B ON H

CA1	AB1 B CONT 00
CB1	AB1 B CONT 01
CC1	AB1 B CONT 02
CD1	AB1 B CONT 03
CE1	AB1 B CONT 04
CF1	AB1 B CONT 05
CH1	AB1 B CONT 06
CJ1	AB1 B CONT 07
CK1	AB1 B CONT 08
CL1	AB1 B CONT 09
CM1	AB1 B CONT 10
CN1	AB1 B CONT 11
CP1	AB1 B CONT 12
CQ1	AB1 B CONT 13
CS1	AB1 B CONT 14
CT1	GND
CU1	AB1 B CONT 15
CV1	AB2 B CPA

DA1	IF7 B CONT 00 OUT L
DB1	IF7 B CONT 01 OUT L
DC1	IF7 B CONT 02 OUT L
DD1	IF7 B CONT 03 OUT L
DE1	IF7 B CONT 04 OUT L
DF1	IF7 B CONT 05 OUT L
DH1	IF7 B CONT 06 OUT L
DJ1	IF7 B CONT 07 OUT L
DK1	IF8 EN REG TO TST H
DL1	DS6 SSE L
DM1	IF8 OCCUPIED L
DN1	CS5 MBA EBL L
DP1	IF4 SEQ CLK H
DQ1	IF3 REQ A H
DS1	IF4 REQ B H
DT1	GND
DU1	AA2 INIT A H
DV1	AB2 INIT B H

EA1	IF9 EXC ERR H
EB1	IF9 ABORT L
EC1	DS2 CLR OFF MD L
ED1	CS3 OPI SET L
EE1	CS3 WLE SET L
EF1	IF8 OFFSET MODE H
EH1	DS6 SET BSE L
EJ1	CS8 WRT PROT H
EK1	CS8 SEEK ERR H
EL1	CS4 POWER ON H
EM1	IF5 RM LA H
EN1	IF8 OFF DIR H
EP1	DS3 SYNC PAR SET H
ER1	IF5 RM EC1 H
ES1	IF5 RM EC2 H
ET1	GND
EU1	DS5 CRC DONE H
EV1	CS2 RD HDR DATA CMD H

FA1	IF8 DCK H
FB1	CS9 DVC SET L
FC1	GND
FD1	MASS FAIL B H
FE1	DS8 ECC DONE H
FF1	DS8 DCK SET L
FH1	DS9 MCRC SET L
FJ1	DS6 MCE SET L
FK1	DS8/ECH SET L
FL1	DS5 WCF SET L
FM1	DS6 FER SET L
FN1	IF8 ASY WRT H
FP1	IF4 TEST BIT CLOCK H
FQ1	CS2 SET NC H
FS1	IF5 EN BUF TO TST A H
FT1	GND
FU1	IF4 EN BUF TO TST B H
FV1	BP AC LO L

AA2	+5V
AB2	-15V
AC2	GND
AD2	AA2 DRV ADR A1 H
AE2	AA2 DRV ADR A2 H
AF2	AA2 DRV ADR A4 H
AG2	AA2 DEMAND A H
AH2	AA2 CTOD A H
AI2	IF3 TRA A L
AL2	IF3 PAR BUS A L
AM2	IF7 A CONT 00 OUT L
AN2	IF7 A CONT 01 OUT L
AO2	IF7 A CONT 02 OUT L
AP2	IF7 A CONT 03 OUT L
AQ2	IF7 A CONT 04 OUT L
AT2	IF7 A CONT 05 OUT L
AU2	IF7 A CONT 06 OUT L
AV2	IF7 A CONT 07 OUT L

BA2	+5V
BB2	-15V
BC2	GND
BD2	IF8 WRT REG H
BE2	IF5 MBA SEL A L
BF2	IF5 RM ER2 H
BH2	IF5 RM OF H
BJ2	GR SYS CLOCK
BK2	IF8 DECODE L
BL2	IF9 SEQ SWP L
BM2	BP DRQ H
BN2	BP 80 MB L
BP2	BP 3600 RPM L
BQ2	IF7 ATA A L
BR2	IF7 ATA B L
BS2	BP LOCK PORT B L
BU2	CS2 P SET ATA L
BV2	IF5 EN A TRANS H

CA2	+5V
CB2	-15V
CC2	GND
CD2	AB2 DRV ADR B 1 H
CE2	AB2 DRV ADR B 2 H
CF2	AB2 DRV ADR B 4 H
CH2	AB2 DEMAND B H
CJ2	AB2 CTOD B H
CK2	IF4 TRA B L
CL2	IF3 PAR BUS B L
CM2	IF2 CONT 00
CN2	IF2 CONT 01
CO2	IF2 CONT 02
CP2	IF2 CONT 03
CQ2	IF2 CONT 04
CS2	IF2 CONT 05
CT2	IF2 CONT 06
CU2	IF2 CONT 07
CV2	IF2 CONT 08

DA2	+5V
DB2	-15V
DC2	GND
DD2	IF2 CONT 09
DE2	IF2 CONT 10
DF2	IF2 CONT 11
DH2	IF2 CONT 12
DJ2	IF2 CONT 13
DK2	IF2 CONT 14
DL2	IF2 CONT 15
DM2	IF2 CONT 16
DN2	CS8 UNIT READY H
DP2	IF8 SCH BK R OR W L
DQ2	DS11 LBT H
DS2	IF8 READ IN CMD L
DT2	CS3 MBA CLR L
DU2	SA2 REC EXC H
DV2	IF5 EN B TRANS H

EA2	+5V
EB2	-15V
EC2	GND
ED2	IF8 INIT A/B L
EE2	IF5 RM SN H
EF2	IF5 RM MR 1 H
EH2	IF8 F0 H
EJ2	IF8 F1 H
EK2	IF8 F2 H
EL2	IF8 F3 H
EM2	IF8 F4 H
EN2	IF8 F5 H
EO2	IF8 F6 H
EP2	CS3 RESET GO L
EQ2	CS8 RUN AND GO H
ER2	CS2 EN EXC H
ES2	IF5 RM DC H
ET2	IF5 RM DC H
EU2	SPARE
EV2	DS2 IAE SET L

FA2	+5V
FB2	-15V
FC2	GND
FD2	CS5 DTE SET L
FE2	IF5 RM DA H
FF2	DS2 AGE SET L
FH2	IF8 FMT 16 H
FJ2	IF8 EC1 L
FK2	IF8 HCL L
FL2	CS3 PWR/DMT L
FM2	IF5 RM MR2 H
FN2	CS8 ON CYL L
FO2	CS3 SET PULSE H
FP2	IF1 LSC L
FQ2	DS7 LBC SET L
FR2	CS2 LSC SET L
FU2	IF3 PORT A LAMP L
FV2	IF3 PORT B LAMP L

REV	CHANGE NO.	DATE

(I/O SIGNAL LIST)

WRLA	(IF12)	CONTROL INTERFACE	DCS	M7686-YA-1	K
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6

REV: CZ 1

M7686-YA-1 K



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BINARY DATA '1' = HIGH  
BINARY DATA '0' = LOW

DEC PART NUMBER 23-20541  
LEFT COLUMN OF BIN DATA IS HIGH

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
0 00 00	377 77 11111111
1 01 01	377 77 11111111
2 02 02	377 77 11111111
3 03 03	377 77 11111111
4 04 04	377 77 11111111
5 05 05	377 77 11111111
6 06 06	377 77 11111111
7 07 07	377 77 11111111
8 08 08	377 77 11111111
9 09 09	377 77 11111111
10 10 10	377 77 11111111
11 11 11	377 77 11111111
12 12 12	377 77 11111111
13 13 13	377 77 11111111
14 14 14	377 77 11111111
15 15 15	377 77 11111111
16 16 16	377 77 11111111
17 17 17	377 77 11111111
18 18 18	377 77 11111111
19 19 19	377 77 11111111
20 20 20	377 77 11111111
21 21 21	377 77 11111111

DEC PART NUMBER 23-20741  
LEFT COLUMN OF BIN DATA IS HIGH

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
0 00 00	072 02 00000000
1 01 01	010 00 00010000
2 02 02	220 10 00010000
3 03 03	170 04 01000000
4 04 04	074 00 00000000
5 05 05	004 00 00000000
6 06 06	220 00 00000000
7 07 07	004 20 00000000
8 08 08	000 00 00000000
9 09 09	000 00 00000000
10 10 10	000 00 00000000
11 11 11	000 00 00000000
12 12 12	000 00 00000000
13 13 13	000 00 00000000
14 14 14	000 00 00000000
15 15 15	000 00 00000000
16 16 16	000 00 00000000
17 17 17	000 00 00000000
18 18 18	000 00 00000000
19 19 19	000 00 00000000
20 20 20	000 00 00000000
21 21 21	000 00 00000000

ORIGINATOR: ITRM BELLEFLENE  
DATE ORIGINATED: 8-27-77

TITLE  
23-20541  
BIN/PROM PATTERN SPEC  
23-20541 AT E7D  
COMMAND DECOCE

DEC PART NUMBER 23-20541  
LEFT COLUMN OF BIN DATA IS HIGH

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
0 00 00	000 00 00000000
1 01 01	000 00 00000000
2 02 02	000 00 00000000
3 03 03	000 00 00000000
4 04 04	000 00 00000000
5 05 05	000 00 00000000
6 06 06	000 00 00000000
7 07 07	000 00 00000000
8 08 08	001 01 00000000
9 09 09	002 01 00000000
10 10 10	000 00 00000000
11 11 11	000 00 00000000
12 12 12	000 00 00000000
13 13 13	000 00 00000000
14 14 14	000 00 00000000
15 15 15	100 00 00000000
16 16 16	200 00 00000000
17 17 17	300 00 00000000
18 18 18	400 00 00000000
19 19 19	500 00 00000000
20 20 20	600 00 00000000
21 21 21	700 00 00000000
22 22 22	800 00 00000000
23 23 23	900 00 00000000
24 24 24	000 00 00000000
25 25 25	100 00 00000000
26 26 26	200 00 00000000
27 27 27	300 00 00000000
28 28 28	400 00 00000000
29 29 29	500 00 00000000
30 30 30	600 00 00000000
31 31 31	700 00 00000000

ORIGINATOR: ITRM BELLEFLENE  
DATE ORIGINATED: 8-2-77

TITLE  
23-20741  
BIN/PROM PATTERN SPEC  
23-20741 AT E8D  
REGISTER ADDRESS DECOCE

ORIGINATOR: ITRM BELLEFLENE  
DATE ORIGINATED: 8-2-77

TITLE  
23-20541  
BIN/PROM PATTERN SPEC  
23-20541 AT E8A  
REGISTER ADDRESS DECOCE

REV	DATE	BY	CHK

DEC PART NUMBER 23-20700  
LEFT COLUMN OF BIN DATA IS HIGH

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
0 00 000	700 00 10110000
1 01 021	000 00 10110000
2 02 072	700 00 10110000
3 03 063	100 70 10110000
4 04 074	200 00 10110000
5 05 075	300 00 10110000
6 06 076	400 00 10110000
7 07 067	500 00 10110000
8 08 078	600 00 10110000
9 09 079	700 00 10110000
10 10 070	800 00 10110000
11 11 081	900 00 10110000
12 12 082	000 00 10110000
13 13 093	100 00 10110000
14 14 094	200 00 10110000
15 15 095	300 00 10110000
16 16 086	400 00 10110000
17 17 097	500 00 10110000
18 18 098	600 00 10110000
19 19 089	700 00 10110000
20 20 090	800 00 10110000
21 21 091	900 00 10110000
22 22 082	000 00 10110000
23 23 093	100 00 10110000
24 24 094	200 00 10110000
25 25 095	300 00 10110000
26 26 086	400 00 10110000
27 27 097	500 00 10110000
28 28 098	600 00 10110000
29 29 089	700 00 10110000
30 30 090	800 00 10110000
31 31 091	900 00 10110000

ORIGINATOR: ITRM BELLEFLENE  
DATE ORIGINATED: 8-27-77

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
32 20 744	000 70 00000000
33 21 741	000 70 00000000
34 22 742	000 70 00000000
35 23 743	000 00 00000000
36 24 744	000 00 00000000
37 25 745	000 00 00000000
38 26 746	000 00 00000000
39 27 747	000 00 00000000
40 28 748	000 00 00000000
41 29 749	000 00 00000000
42 30 750	000 00 00000000
43 31 751	000 00 00000000
44 32 752	000 00 00000000
45 33 753	000 00 00000000
46 34 754	000 00 00000000
47 35 755	000 00 00000000
48 36 756	000 00 00000000
49 37 757	000 00 00000000
50 38 758	000 00 00000000
51 39 759	000 00 00000000
52 40 760	000 00 00000000
53 41 761	000 00 00000000
54 42 762	000 00 00000000
55 43 763	000 00 00000000
56 44 764	000 00 00000000
57 45 765	000 00 00000000
58 46 766	000 00 00000000
59 47 767	000 00 00000000
60 48 768	000 00 00000000
61 49 769	000 00 00000000
62 50 770	000 00 00000000
63 51 771	000 00 00000000
64 52 772	000 00 00000000
65 53 773	000 00 00000000
66 54 774	000 00 00000000
67 55 775	000 00 00000000
68 56 776	000 00 00000000
69 57 777	000 00 00000000

BINARY DATA '1' = HIGH  
BINARY DATA '0' = LOW

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
64 40 100	072 02 00000000
65 41 101	072 02 00000000
66 42 102	072 02 00000000
67 43 103	072 02 00000000
68 44 104	072 02 00000000
69 45 105	072 02 00000000
70 46 106	072 02 00000000
71 47 107	072 02 00000000
72 48 108	072 02 00000000
73 49 109	072 02 00000000
74 50 110	072 02 00000000
75 51 111	072 02 00000000
76 52 112	072 02 00000000
77 53 113	072 02 00000000
78 54 114	072 02 00000000
79 55 115	072 02 00000000
80 56 116	072 02 00000000
81 57 117	072 02 00000000
82 58 118	072 02 00000000
83 59 119	072 02 00000000
84 60 120	072 02 00000000
85 61 121	072 02 00000000
86 62 122	072 02 00000000
87 63 123	072 02 00000000
88 64 124	072 02 00000000
89 65 125	072 02 00000000
90 66 126	072 02 00000000
91 67 127	072 02 00000000
92 68 128	072 02 00000000
93 69 129	072 02 00000000
94 70 130	072 02 00000000
95 71 131	072 02 00000000
96 72 132	072 02 00000000
97 73 133	072 02 00000000
98 74 134	072 02 00000000
99 75 135	072 02 00000000
100 76 136	072 02 00000000
101 77 137	072 02 00000000

DEC PART NUMBER 23-20700  
LEFT COLUMN OF BIN DATA IS HIGH

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
128 2A 300	072 02 00000000
129 2B 301	072 02 00000000
130 2C 302	072 02 00000000
131 2D 303	072 02 00000000
132 2E 304	072 02 00000000
133 2F 305	072 02 00000000
134 30 306	072 02 00000000
135 31 307	072 02 00000000
136 32 308	072 02 00000000
137 33 309	072 02 00000000
138 34 310	072 02 00000000
139 35 311	072 02 00000000
140 36 312	072 02 00000000
141 37 313	072 02 00000000
142 38 314	072 02 00000000
143 39 315	072 02 00000000
144 40 316	072 02 00000000
145 41 317	072 02 00000000
146 42 318	072 02 00000000
147 43 319	072 02 00000000
148 44 320	072 02 00000000
149 45 321	072 02 00000000
150 46 322	072 02 00000000
151 47 323	072 02 00000000
152 48 324	072 02 00000000
153 49 325	072 02 00000000
154 50 326	072 02 00000000
155 51 327	072 02 00000000
156 52 328	072 02 00000000
157 53 329	072 02 00000000
158 54 330	072 02 00000000
159 55 331	072 02 00000000
160 56 332	072 02 00000000
161 57 333	072 02 00000000
162 58 334	072 02 00000000
163 59 335	072 02 00000000
164 60 336	072 02 00000000
165 61 337	072 02 00000000
166 62 338	072 02 00000000
167 63 339	072 02 00000000
168 64 340	072 02 00000000
169 65 341	072 02 00000000
170 66 342	072 02 00000000
171 67 343	072 02 00000000
172 68 344	072 02 00000000
173 69 345	072 02 00000000
174 70 346	072 02 00000000
175 71 347	072 02 00000000
176 72 348	072 02 00000000
177 73 349	072 02 00000000
178 74 350	072 02 00000000
179 75 351	072 02 00000000
180 76 352	072 02 00000000
181 77 353	072 02 00000000
182 78 354	072 02 00000000
183 79 355	072 02 00000000
184 80 356	072 02 00000000
185 81 357	072 02 00000000
186 82 358	072 02 00000000
187 83 359	072 02 00000000
188 84 360	072 02 00000000
189 85 361	072 02 00000000
190 86 362	072 02 00000000
191 87 363	072 02 00000000

ORIGINATOR: ITRM BELLEFLENE  
DATE ORIGINATED: 8-27-77

DEC HEX OCT	DEC HEX BIN
LOC LOC LOC	DAT DAT DAT
182 5A 300	072 02 00000000
183 5B 301	072 02 00000000
184 5C 302	072 02 00000000
185 5D 303	072 02 00000000
186 5E 304	072 02 00000000
187 5F 305	072 02 00000000
188 60 306	072 02 00000000
189 61 307	072 02 00000000
190 62 308	072 02 00000000
191 63 309	072 02 00000000
192 64 310	072 02 00000000
193 65 311	072 02 00000000
194 66 312	072 02 00000000
195 67 313	072 02 00000000
196 68 314	072 02 00000000
197 69 315	072 02 00000000
198 70 316	072 02 00000000



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STEADY DATA \*1\* = HIGH  
STEADY DATA \*0\* = LOW

DEC PART NUMBER: 23-20761  
LEFT COLUMN OF BIN DATA IS HIGH

Table with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT. Rows 0-31 showing binary data for the left column.

DEC PART NUMBER: 23-20761  
LEFT COLUMN OF BIN DATA IS HIGH

Table with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT. Rows 0-31 showing binary data for the left column.

ORIGINATOR: IRENE BELLEFLEUR  
DATE SPECIFIED: 6-29-77

TITLE: 23 x 8  
NON-PROM PATTERN SPEC  
23-20761 AT E7D  
COMMAND DECODE

DEC PART NUMBER: 23-20761  
LEFT COLUMN OF BIN DATA IS HIGH

Table with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT. Rows 0-31 showing binary data for the left column.

ORIGINATOR: IRENE BELLEFLEUR  
DATE SPECIFIED: 6-29-77

TITLE: 23 x 8  
NON-PROM PATTERN SPEC  
23-20761 AT E8D  
REGISTER ADDRESS DECODE

ORIGINATOR: IRENE BELLEFLEUR  
DATE SPECIFIED: 6-29-77

TITLE: 23 x 8  
NON-PROM PATTERN SPEC  
23-20761 AT E8I  
REGISTER ADDRESS DECODE

DEC PART NUMBER: 23-20760  
LEFT COLUMN OF BIN DATA IS HIGH

Table with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT. Rows 0-31 showing binary data for the left column.

ORIGINATOR: IRENE BELLEFLEUR  
DATE SPECIFIED: 6-29-77

STEADY DATA \*1\* = HIGH  
STEADY DATA \*0\* = LOW

DEC PART NUMBER: 23-20760  
LEFT COLUMN OF BIN DATA IS HIGH

Table with columns: DEC HEX OCT, LOC LOC LOC, DAT DAT DAT. Rows 0-31 showing binary data for the left column.

ORIGINATOR: IRENE BELLEFLEUR  
DATE SPECIFIED: 6-29-77

STEADY DATA \*1\* = HIGH  
STEADY DATA \*0\* = LOW

TITLE: 23 x 8  
NON-PROM PATTERN SPEC  
23-20760  
HANDSHAKE FROM AT E34 AND E39

Table with columns: REV, CHANGE NO, REV. Rows 1-2.





LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
1	D-MD-5012486-0-0	5012486-00	M7686	1	
2		1000082-00	68 MFD 15V 10% 150D S.TA	1	C1
3		1001610-01	.01 MFD 100V -20+80 Z5U DISC	92	C5-C95,C102
4		1017472-00	10 MFD 35V +50-10% AL EL	6	C96,C97,C98,C99,C100,C101
5		1000009-00	33.0 MMF 100V 5%200PPM DM15S	3	C2,C3,C4
6		1105275-00	D 672 TR= 15NS PIV= 60V SI	1	D1
7		1210711-02	HANDLE,MODULE,HEX	1	
8		1302388-00	2.0 K .25 W 5.0 % CC	14	R59,R61-R73
9		1300271-00	220.0 .25 W 5.0 % CC	2	R55,R56
10		1300432-00	3.0 K .25 W 5.0 % CC	51	R1-R51
11		1300447-00	4.70 K .25 W 5.0 % CC	1	R54
12		1302177-00	47.0 K .25 W 5.0 % CC	1	R53
13		1611300-00	DELAY= 10-125NS,5TAPS FAST RISE	1	E47
14		1910224-00	DEC 7485 COMPARATOR-4BIT	2	E2,E3
15		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	2	E26,E28
16		1910532-00	74500 NAND GATE-QUAD 2IN	3	E37,E82,E83
17		1910534-00	74504 INVERTER GATE-HEX 1I	2	E31,E44
18		1910536-00	74510 NAND GATE-TRIPLE 3IN	1	E38
19		1910537-00	74511 AND GATE-TRIPLE 3INP	2	E40,E69
20		1910544-00	74574 FF-D DUAL,EDGE TRIGG	3	E17,E43,E45
21		1910548-00	745157 MUX 1 OF 2 (QUAD)	8	E13,E14,E16,E21,E48,E50,E52,E53
22		1910957-00	745175 FF-D QUAD COMMON CLO	2	E35,E41
23		1911330-00	74173 FF-D QUAD,TRISTATE	4	E19,E20,E24,E25
24		1911573-00	745280 PARITY GEN/CHKR,9BIT	2	E1,E5
25		1911641-00	SN 745257 MUX,QUAD 2 TO 1	5	E6,E8,E9,E10,E12
26		1912388-00	74502 NOR GATE-QUAD 2IN,PO	4	E7,E36,E55,E59
27		1912389-00	74508 AND GATE-QUAD 2IN,PO	3	E44,E49,E91
28		1912697-00	LS174 FF-D HEX W/CLEAR	1	E87
29		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	3	E18,E30,E58
30		1912801-00	LS02 NOR-GATE-QUAD 2IN	3	E57,E64,E75

20M  
1 MAR  
80

REVISION HISTORY		BASIC PART NO: M7686		DRN:	DATE: 6-FEB-80	DIGITAL	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DATE: 21-FEB-80	TITLE	PARTS LIST
	INITIAL	K	SECTION.VARIATION INDEX	R. MICHAUD		CONTROL	INTERFACE
			[A] YA	DES.ENG:	DATE: 21-FEB-80	DOCUMENT NUMBER	
			[B]	RESP.ENG.:	DATE: 21-FEB-80	SIZE	CODE
			[C]	MFG.ENG.:	DATE: 21-FEB-80	NUMBER	REV
			[D]	D. CLAFLIN		K	PL
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
			[F]	D-UA-M7686-YA-0	#B-DD-M7686-YA	Z1188K.PLS	13
			[G]				
			[H]				
			[I]				
			[J]				
			[K]				
			[L]				
			[M]				
			[N]				

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AUTOMATED BY PRTLST.3L(40)

PARTS LIST

SHEET A2 OF A2

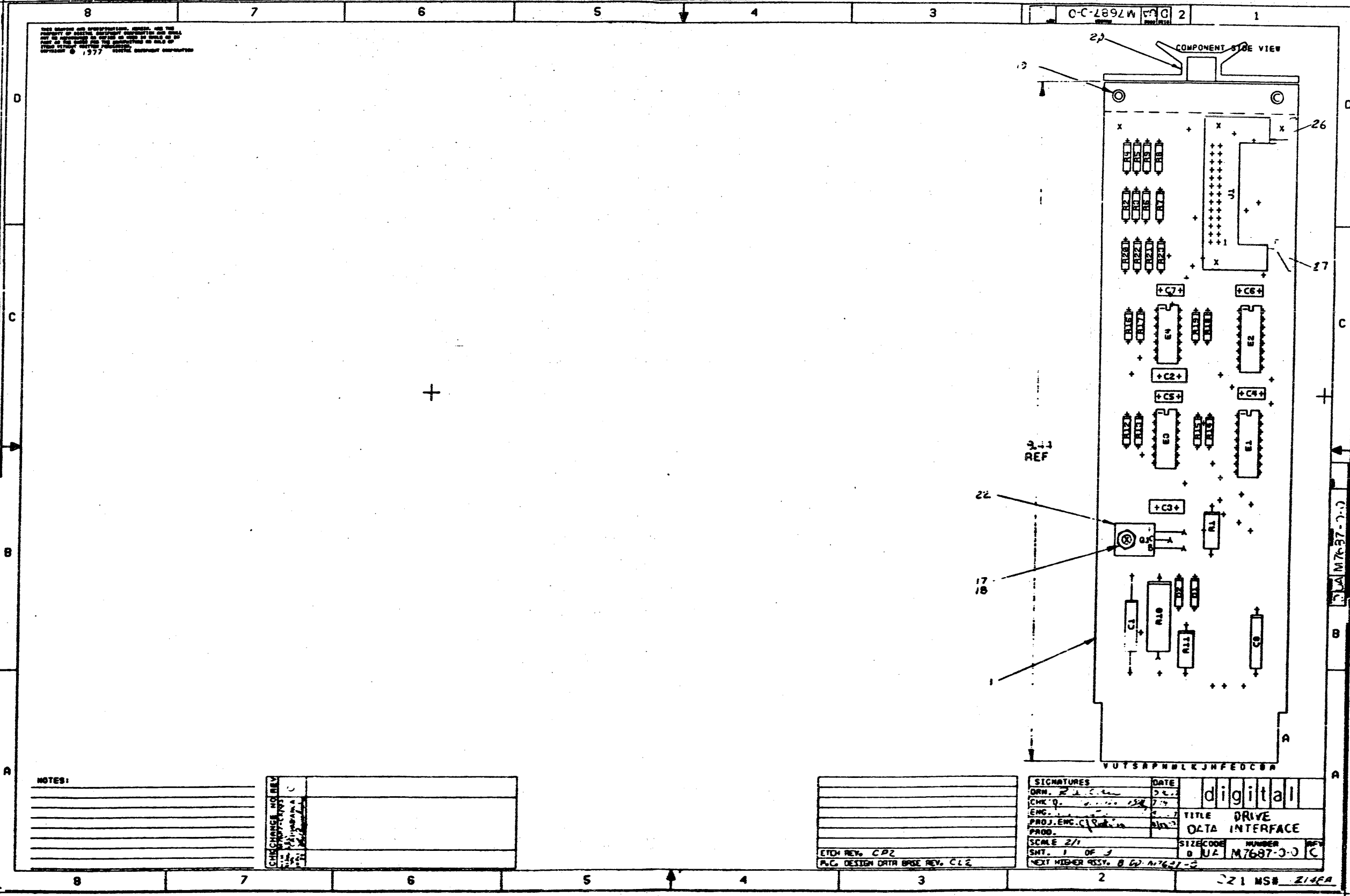
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
31	31	1912803-00	LS04 INVERTER GATE-HEX 1I	1	E27
32	32	1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E42
33	33	1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E84
34	34	1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E32
35	35	1912819-00	LS42 DECODER,BCD-DECIMAL	2	E11,E15
36	36	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	18	E23,E33,E51,E56,E63,E65,E67,E71, CONT E74,E77,E78,E85,E93,E95,E97,E98, CONT E100,E101
37	37	1912839-00	LS133 NAND GATE-POS	1	E86
38	38	1912844-00	LS151 MUX 1 OF 8 & DATA	2	E4,E22
39	39	1912853-00	LS175 FF-D QUAD	1	E88
40	40	1913312-00	7428P NOR GATE-QUAD 2IN POS	1	E54
41	41	23004C6-00	C6-01	1	E29
42	42	23007B8-00	B8-01	2	E34,E39
43	43	23206A1-00	A1-07	1	E81
44	44	23205A1-00	A1-03,A1-04,A1-05	1	E70
45	45	1914087-00	8098 BUFFER GATE-HEX 2IN,	9	E60,E68,E72,E73,E79,E80,E94,E96, CONT E99
46	46	9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
47	47	1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E90
48	48	1903547-00	7474 FF-D DUAL,EDGE TRIGG	1	E61
49	49	1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	1	E92
50	50	1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E66
51	51	9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
52	52	1300496-00	15.0 K .25 W 5.0 X CC	2	R57,R58
53	53	23005C6-00	C6-01	1	E76
54	54	23207A1-00	A1-C7	1	E89
55	55	23006C6-00	C6-01	1	E62
56	56	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
57	57	1300479-00	10.0 K .25 W 5.0 X CC	2	R52,R60
58	58	9107267-11	TUBING,THIN WALL,.034ID UL	A/R	

59 NOTE: NOTE 1: W1 (9009185-00) SHOULD NOT BE AUTOMATICALLY INSERTED.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							CONTROL INTERFACE		K	PL	M7686-YA-DBP	K

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C-C-2892W P.C. 2



NOTES:

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CHANGE NO	REV	DATE	BY
1	A		
2	B		
3	C		
4	D		
5	E		
6	F		
7	G		
8	H		
9	I		
10	J		
11	K		
12	L		
13	M		
14	N		
15	O		
16	P		
17	Q		
18	R		
19	S		
20	T		
21	U		
22	V		
23	W		
24	X		
25	Y		
26	Z		
27	AA		
28	AB		
29	AC		
30	AD		
31	AE		
32	AF		
33	AG		
34	AH		
35	AI		
36	AJ		
37	AK		
38	AL		
39	AM		
40	AN		
41	AO		
42	AP		
43	AQ		
44	AR		
45	AS		
46	AT		
47	AU		
48	AV		
49	AW		
50	AX		
51	AY		
52	AZ		
53	BA		
54	BB		
55	BC		
56	BD		
57	BE		
58	BF		
59	BG		
60	BH		
61	BI		
62	BJ		
63	BK		
64	BL		
65	BM		
66	BN		
67	BO		
68	BP		
69	BQ		
70	BR		
71	BS		
72	BT		
73	BU		
74	BV		
75	BW		
76	BX		
77	BY		
78	BZ		
79	CA		
80	CB		
81	CC		
82	CD		
83	CE		
84	CF		
85	CG		
86	CH		
87	CI		
88	CJ		
89	CK		
90	CL		
91	CM		
92	CN		
93	CO		
94	CP		
95	CQ		
96	CR		
97	CS		
98	CT		
99	CU		
100	CV		

ETCH REV. CP2
P.C. DESIGN DATA BASE REV. CL2

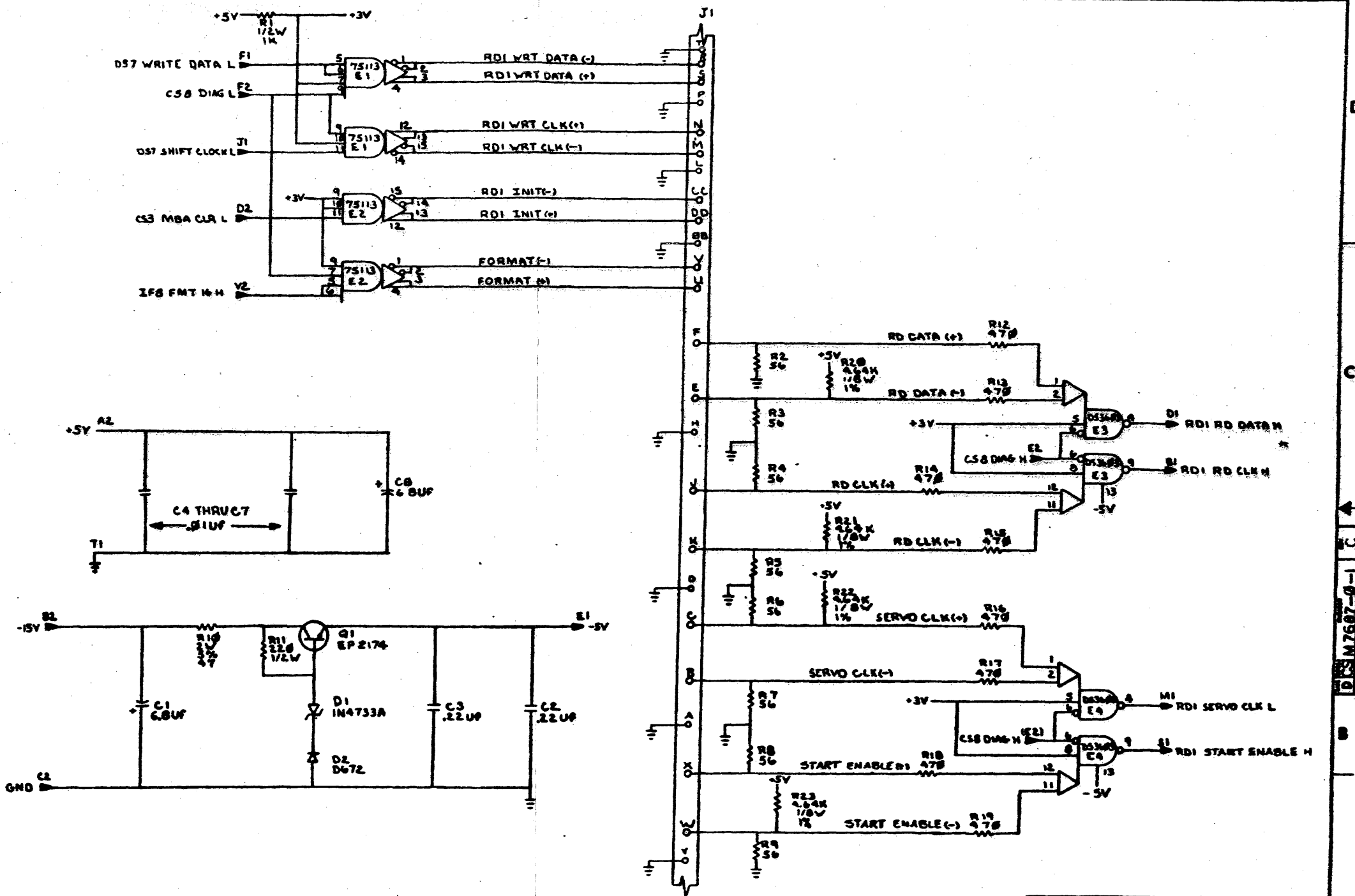
SIGNATURES	DATE
DRW. J. C. ...	7/79
CHK. Q. ...	7/79
ENG. ...	7/79
PROJ. ENG. C. ...	7/79
PROD. ...	
SCALE 2/1	
SMT. 1 OF 3	
NEXT HIGHER ASSY. B 62 M7687-00	

digital	
TITLE DRIVE DATA INTERFACE	
SIZE CODE	NUMBER
D U/A	M7687-00 C

211 MSB 214FA

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D E S I G N 2  
D E S I G N 2  
D E S I G N 2



REV	DATE	BY	CHKD
1	11/11/78	W. J. ...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...

DATE	11/11/78	REV	1
DESIGNER	W. J. ...	CHECKED	...
PROJ ENGR	...	DATE	...
PROJ MGR	...	SCALE	...
NEXT HIGHER ASSY	...	SHEET	1 OF 1
TITLE		DRIVE DATA INTERFACE	
PART NUMBER		D E S I G N 2	
SCALE		...	
SHEET		1 OF 1	

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION								NOTES:	
PARTS LIST												USED ON: OPTION / MODEL RM03	
MADE BY JVV		CHECKED <i>Tom Mudge</i>											
DATE 12/16/76		DATE 2/2/77											
ENG <i>Y. Bellone</i>		PROD <i>M. Bellone</i>											
DATE <i>5/11/77</i>		DATE <i>5/11/77</i>											
		SECTION 1											
		ISSUED SECTION 1											
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF								REF DESIGNATION	
	D-MD-5012487-0-0		DRILL & ETCH DRAWING	REF									
	D-UA-M7687-0-0		UNIT ASSY.	REF									
	B-DD-M7687-0		DWG. DIRECTORY	REF									
	D-CS-M7687-0-1		CIRCUIT SCHEMATIC	REF									
1		5012487	ETCHED CIRCUIT BOARD	1									
2		10-05306-00	CAP, 6.8 UF 10% 35V	2								C8, C1	
3		10-10274-00	CAP, 0.22 UF 50V	2								C2, C3	
4		10-01610-01	CAP, .01 UF 100V DISC	4								C4, C5, C6, C7	
5		<del>10-00082-00</del>	<del>CAP, 68UF 15V 10%</del>	<del>1</del>								<del>C1</del>	
6		11-05275-00	DIODE, D672	1								D2	
7		11-09943-00	DIODE, IN4733A	1								D1	
8		13-00274-00	RES, 220 1/2W 5%	1								R11	
9		13-00364-00	RES, 1K 1/2W 5%	1								R1	
10		13-14023-00	RES, 47 2W 5%	1								R10	
11		13-00316-00	RES, 470 1/2W 5%	8								R12 thru R19	
12		13-02602-00	RES, 56 1/2W 5%	8								R2 thru R9	
13		13-01802-00	RES 4.64K 1/8K 1% MF	4								R20 thru R23	
14		15-12589-00	TRANS, PNP, 40W, 60V, 3A	1								Q1	
15		19-11341-00	I.C. DEC 75113	2								E1, E2	
16		19-14091-00	I.C. DS3603	2								E3, E4	
17		90-06010-04	SCREW BHM#4-40 x 5-16 LG	1									

E.C.O. NO. 000012  
M7687-C  
CX 0003

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TITLE  
DRIVE DATA INTERFACE

ASSY NO.  
D-UA M7687-0-0  
SHEET 1 OF 2

SIZE CODE NUMBER REV.  
B PL M7687-0-0 C

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON / OPTION / MODEL  
RM03

MADE BY	JVV	CHECKED	<i>P. Bauman</i>	SECTION	1
DATE	12-16-76	DATE	15 APR 77	ISSUED SECTION	1
ENG	<i>Y. Belliveau</i>	PROD	<i>[Signature]</i>		
DATE	5/11/77	DATE	5/2/77		

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY	UNIT	REF DESIGNATION
18		90-06557-00	KEPNUT #4-40	1		
19		90-06732-00	EYELET	2		
20		90-08337-06	HANDLE, FLIP CHIP - MAGENTA	1		
21		12-09941-09	CONNECTOR 26 PIN	1		J1
22		90-08268-00	THERMAL COMPOUND	1		
23		90-06004-04	SCREW BHM #2-56 x 7/16-18	2		
24		90-06555-00	NUT, HEX	2		
25		90-06631-00	WASHER, INTLK #2	2		
26		12-09941-03	LATCH, LEFT	1		
27		12-09941-04	LATCH, RIGHT	1		

E.C.O. NO.

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TITLE  
DRIVE DATA INTERFACE

ASSY NO.  
D-UA-M7687-0-0  
SHEET 2 OF 2

SIZE CODE NUMBER  
B PL M7687-0-0  
INSERTION PARTS LIST DATA BASE REV B

REV.  
C

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**REWORK INSTRUCTIONS**

ECO # 1  
 COMPONENT DELETE SIDE 1:  
 1-1 DELETE E6 (P/N 1905486-00),  
 COMPONENT ADD SIDE 1:  
 1-2 ADD E6 (P/N 1911329-00)

25,23,24

8.44 REF.

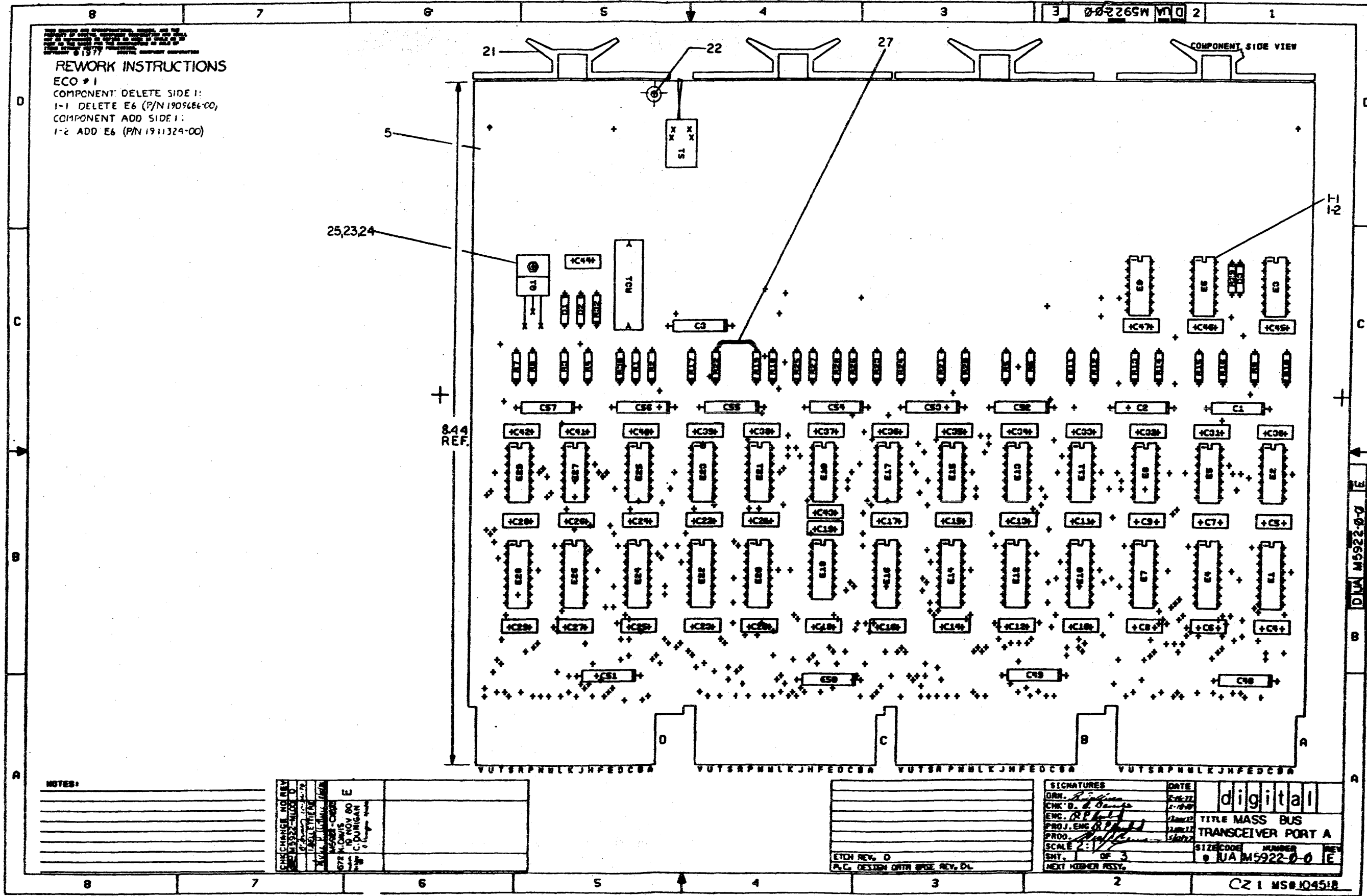
**NOTES:**


CHANGE NO	REV	DATE	BY	CHK'D

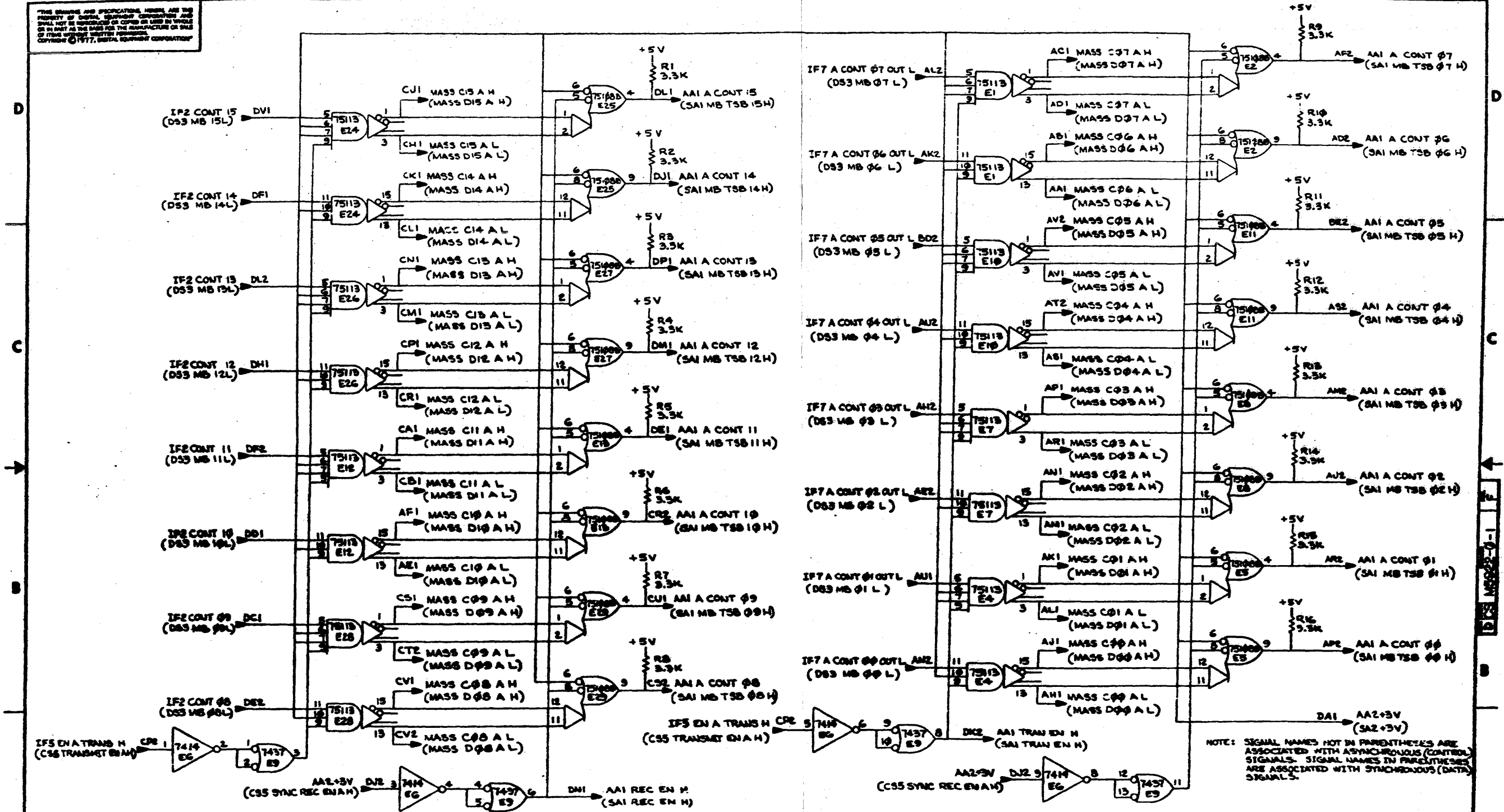
ETCH REV. 0  
 P.C. DESIGN DATA SIDE REV. DL

SIGNATURES		DATE	digital
DRN. <i>[Signature]</i>		2-28-77	
CHK'D. <i>[Signature]</i>		1-9-78	TITLE MASS BUS TRANSCEIVER PORT A
ENC. <i>[Signature]</i>		12/22/77	
PROJ. ENG. <i>[Signature]</i>		12/22/77	
SCALE: 1:1	OF 3	SIZE CODE	NUMBER
SHT. 1		0 U/A M5922-0-0	REV. E
NEXT HIGHEN REVISION			

CZ 1 MS# 104518



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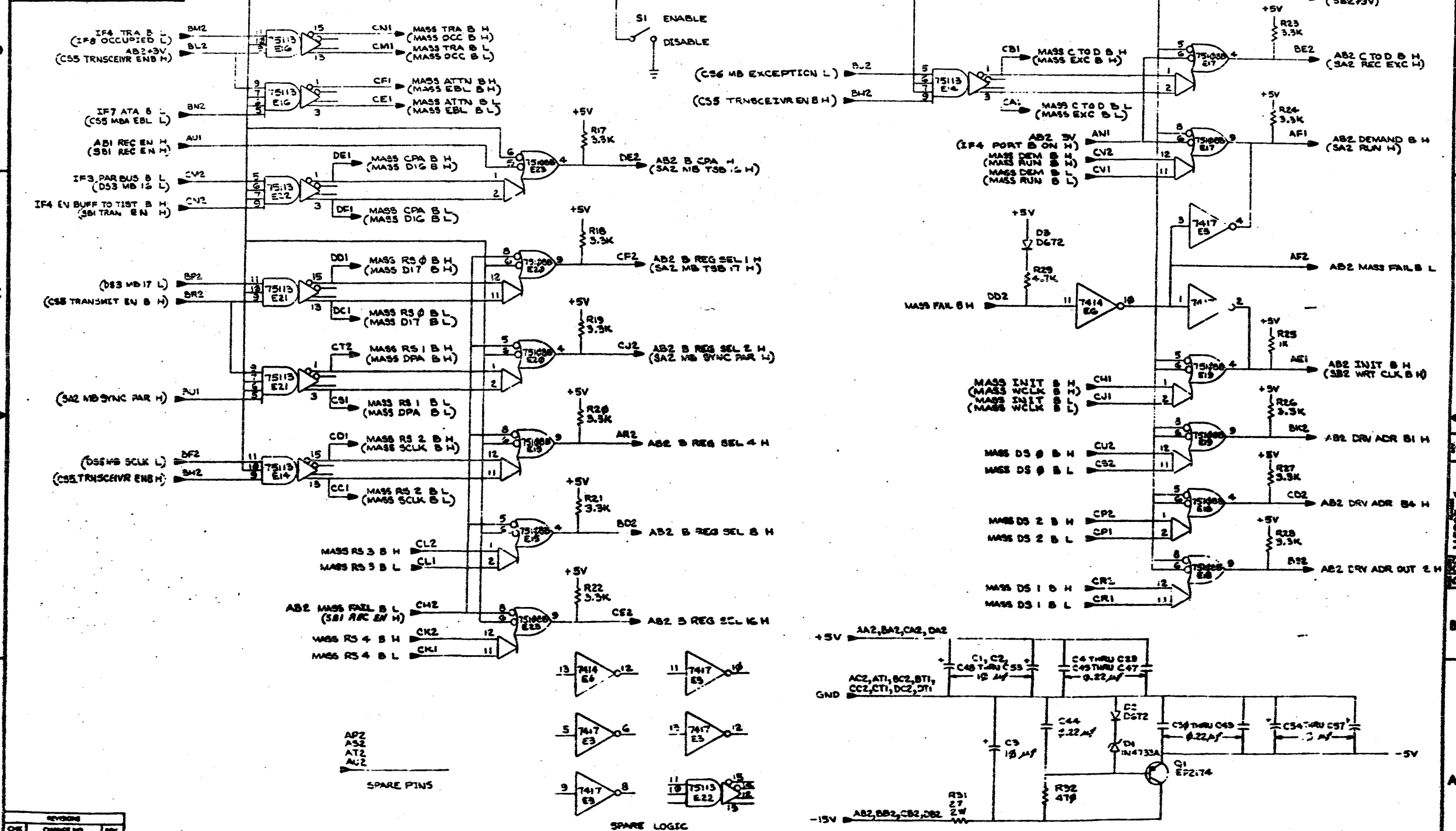


NOTE: SIGNAL NAMES NOT IN PARENTHESES ARE ASSOCIATED WITH ASYNCHRONOUS (CONTROL) SIGNALS. SIGNAL NAMES IN PARENTHESES ARE ASSOCIATED WITH SYNCHRONOUS (DATA) SIGNALS.

DESIGNED BY	DATE	APPROVED BY
W. B. BENTLEY	5/29/77	
W. B. BENTLEY		
W. B. BENTLEY		
W. B. BENTLEY		
W. B. BENTLEY		
W. B. BENTLEY		
W. B. BENTLEY		

DATE	5/29/77	FIRST USED BY	RM03
DESIGNED BY	W. B. BENTLEY	DATE	5/29/77
APPROVED BY	W. B. BENTLEY	TITLE	MASS BUS TRANSCEIVER PORT A
PROJ. ENG. NO.	118211	SCALE	D
NEXT NUMBER ASSY.		SHEET	1 OF 2
8-00-M5922-0		REV.	F

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REV	CHG	DATE	BY

TITLE MASS BUS TRANSCIEVER PORT B DCS M5923-0-1 SHEET 2 OF 2



LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-CS-M5923-0-1		CIRCUIT SCHEMATIC		REF	
2	2	D-UA-M5923-0-0		UNIT ASSEMBLY		REF	
3	3	B-DD-M5923-0-0		DWG DIRECTORY		REF	
4	4	D-MD-5012533-0-0		DRILL AND ETCH DRAWING		REF	
5	5		5012533-00	M5923		1	
6	6		1017472-00	10 MFD 35V +50-10% AL EL	13		C1,C2,C3,C48-C57
7	7		1010274-00	.22 MFD 50V +80-20% Z5U CER	44		C4-C47
8	8		1105275-00	D 672 TR= 15NS PIV= 60V SI	2		D2,D3
9	9		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1		D1
10	10		1300316-00	470.0 .25 W 5.0 % CC	1		R32
11	11		1300439-00	3.30 K .25 W 5.0 % CC	27		R1-R24,R26,R27,R28
12	12		1300447-00	4.70 K .25 W 5.0 % CC	1		R29
13	13		1305624-00	27.0 2.0 W10.0 % CC	1		R31
14	14		1300309-00	390.0 .25 W 5.0 % CC	1		R30
15	15		1512589-00	PNP 40W SI 60 25	1		Q1
16	16		1911324-00	7414 INVERTER,HEX 1IN SCH	1		E6
17	17		1909929-00	7417 BUFFER GATE-HEX 1INP	1		E3
18	18		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1		E9
19	19		1910725-00	751088 RECEIVER,LINE,DUAL,	14		E2,E5,E8,E11,E13,E15,E17,E18, E19,E20,E23,E25,E27,E29
20	20		1911341-00	75113 DRIVER,LINE,DUAL,PA	12	CONT	E1,E4,E7,E10,E12,E14,E16-E21, E22,E24,E26,E28
21	21		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4		
22	22		9006732-00	E/ELET, ROLLED FLANGE, .121 OD X	8		
23	23		9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	1		
24	24		9006557-00	NUT,KEP , 4-40X 1/4 AF	1		
25	25		9008268-00	COMPOUND, THERMAL JOINT	A/R		
26	26		1210209-00	SW,TOG,SPDT,.01A@6V,ON/ON,SUBMIN	1		S1
27	27		1300365-00	1.0 K .25 W 5.0 % CC	1		R25

REVISION HISTORY		BASIC PART NO: M5923		DRN:	R SULLIVAN	DATE:	13-JUL-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	CB	DATE:	13-JUL-78	TITLE PARTS LIST			
	INIT	D	SECTION VARIATION INDEX					MSSBUS TRANCEIVER PORT B			
ER	00001	D	[A] 00								
LC	M5923-CX002	E	[B]								
CD	M5923-CX003	F	[C]	DES.ENG:	RE	DATE:	13-JUL-78				
	W.L.M. 25 Nov 80		[D]								
			[E]					DOCUMENT NUMBER			
			[F]	RESP.ENG.:	R E	DATE:	13-JUL-78	SIZE	CODE	NUMBER	REV
			[G]					K	PL	M5923-0-DBP	F
			[H]	MFG.ENG.:	MH	DATE:	13-JUL-78				
			[I]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT		
			[J]	D-UA-M5923-0-0		RM03		Z0847F.PLS	6		

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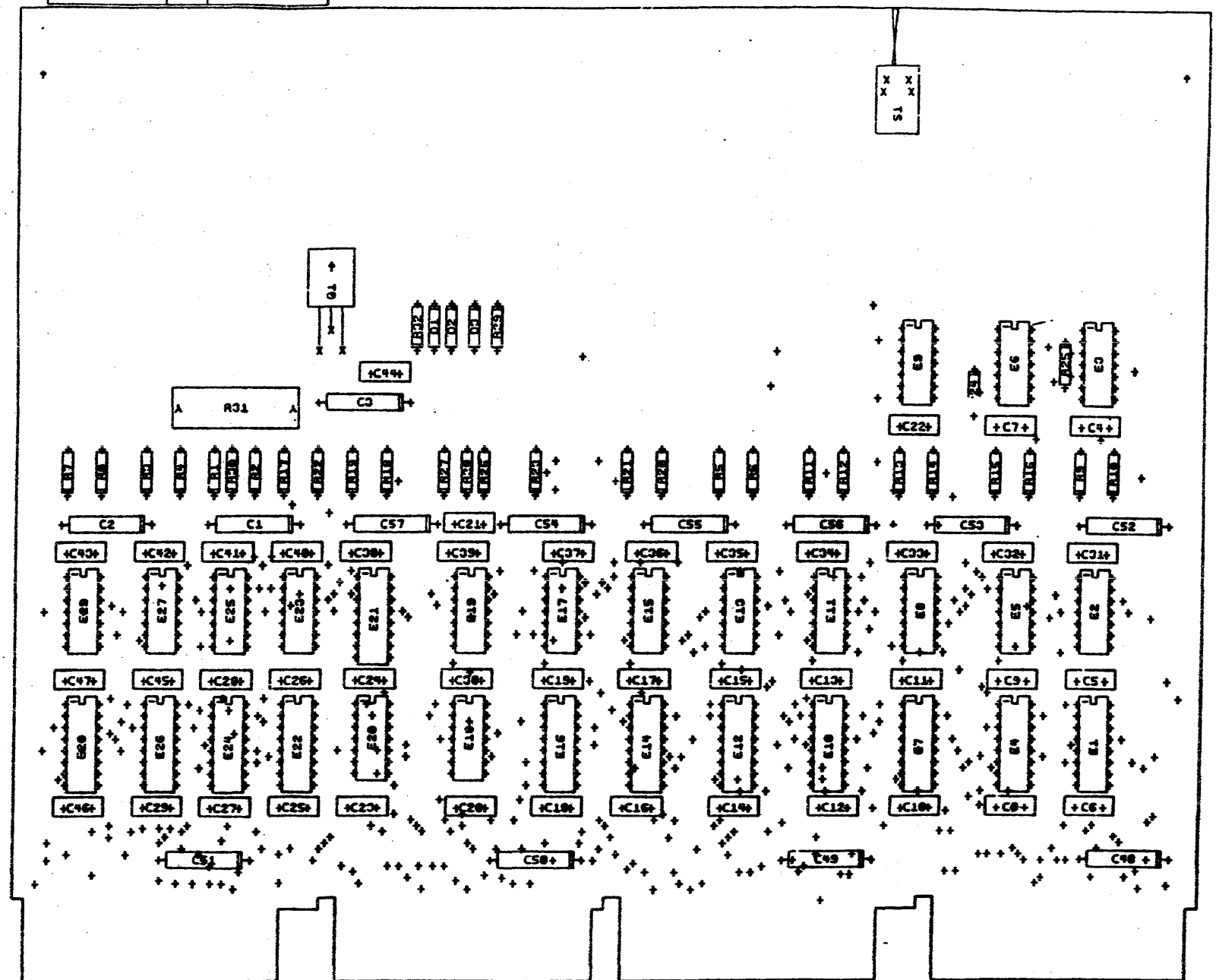
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**REWORK INSTRUCTIONS**  
 COMPONENT DELETE SIDE 1:  
 1-1 DELETE E6 (PIN 1909684-00)  
 COMPONENT ADD SIDE 1:  
 1-2 ADD E6 (PIN 1911324-00)

23,24,25

21

COMPONENT SIDE VIEW



NOTES:


CHANGE NO.	

ETC. REV.	
P.C. DESIGN DATA BASE REV.	

SIGNATURES		DATE
DRN.		
CHK'D.		
ENG.		
PROJ. ENG.		
PROD.		
SCALE		
SHT. OF 3		
NEXT HIGHER ASSY.		

digital
TITLE MASS BUS
TRANSCIVER PORT B
SIZE CODE NUMBER
0 115 M 3023-02 E

8

7

6

5

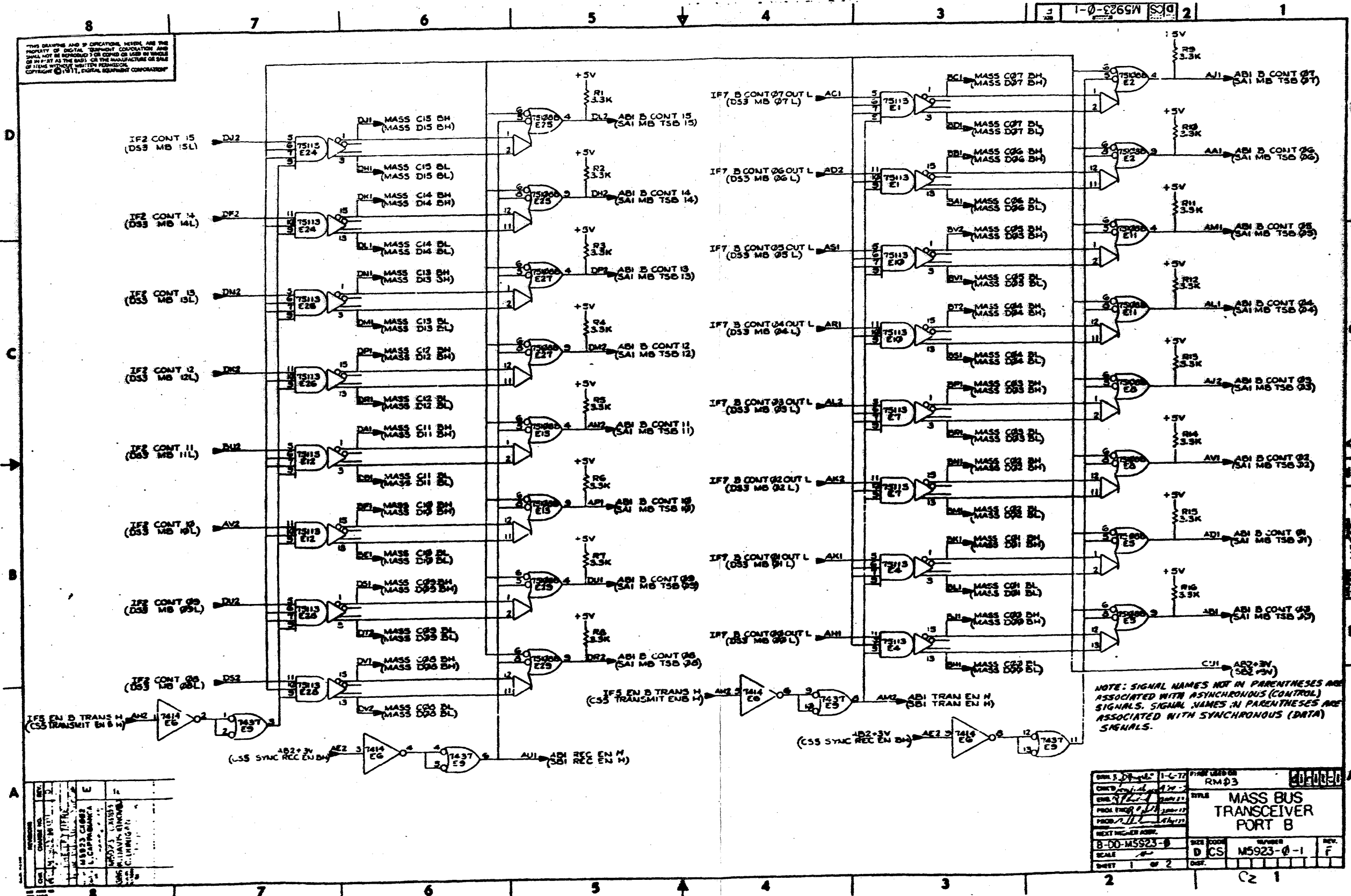
4

3

2

1 MSB

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REV.	DATE	BY	CHKD.	DESCRIPTION
1				
2				
3				
4				
5				
6				
7				
8				

DATE	1-6-77	REV. NO.	RM 03
DESIGNER		DRWING	
CHECKED		DATE	
PROJ. ENGR.		DATE	
PROD. ENGR.		DATE	
TITLE			
MASS BUS TRANSCEIVER PORT B			
NEXT REVISION		SIZE	DOCS
B-D0-M5923-8		D	CS
SCALE		NUMBER	M5923-0-1
1 of 2		REV.	F
DRWT		DISP.	

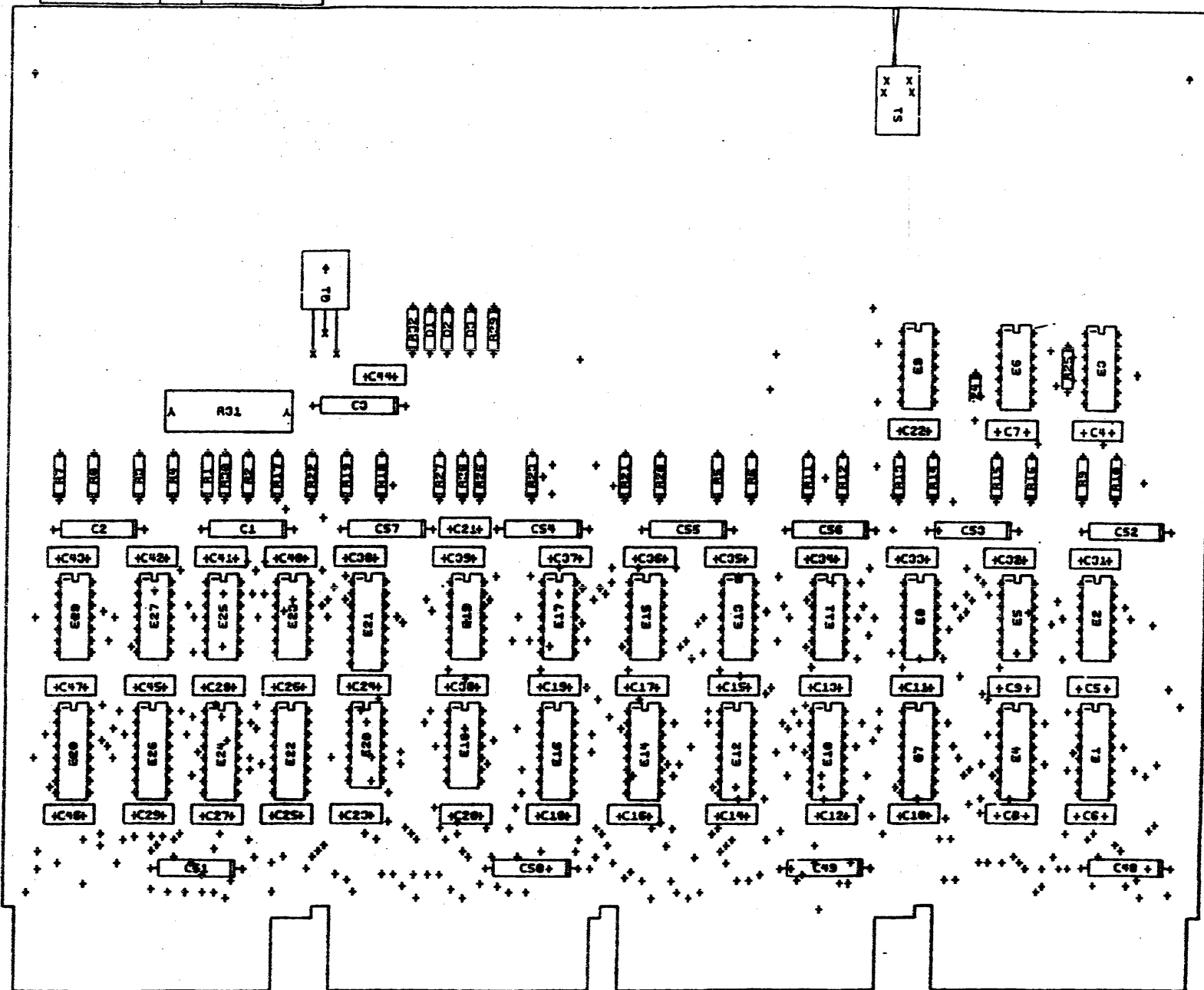
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**REWORK INSTRUCTIONS**  
 COMPONENT DELETE SIDE 1:  
 1-1 DELETE E6 (PN 1905684-00)  
 COMPONENT ADD SIDE 1:  
 1-2 ADD E6 (PN 1911324-00)

23,24,25

21

COMPONENT SIDE VIEW



NOTES:


REVISION NO.	REV.	DATE	BY

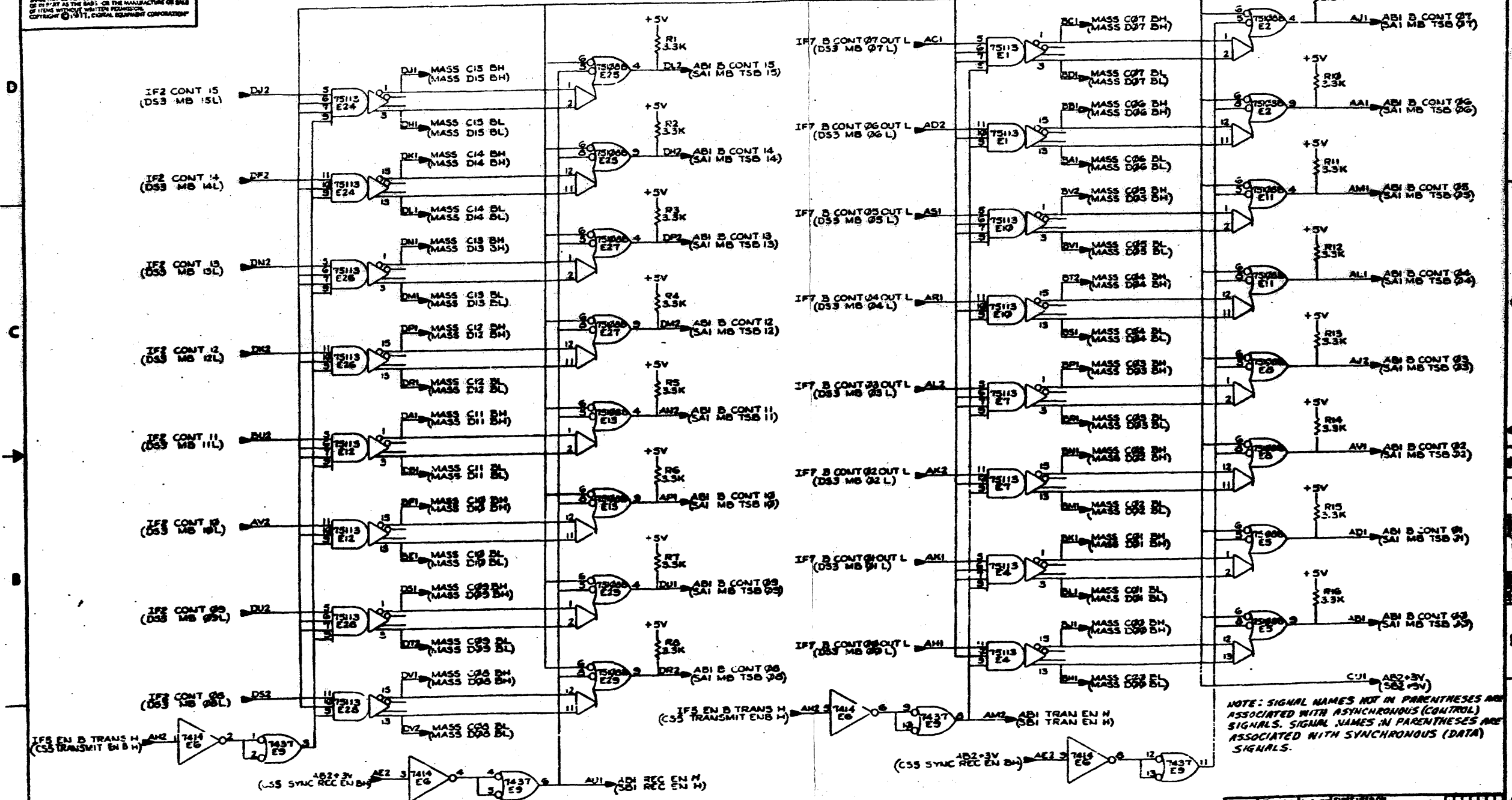
ETCH REV.	
P.C. DESIGN DATA BASE REV.	

SIGNATURES	DATE
ORN.	
CHK'D.	
ENG.	
PROJ. ENG.	
PROG.	
SCALE	
SMT. OF 3	
NEXT HIGHER ASSY.	

digital
TITLE MASS BUS TRANSCIVER PORT B
SIZE CODE NUMBER
D 11A M3923-07 E

1 MS0

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REV	DATE	BY	CHKD	DESCRIPTION
1	11/11/77	...	...	...
2	...	...	...	...

DATE	1-6-77	REVISED BY	RM#3
CHKD	...	...	...
PRG	...	...	...
PROJ	...	...	...
NEXT IN CHARGE	...	...	...
SCALE	B-00-MS923-0	SHEET	1 OF 2
TITLE		MASS BUS TRANSCEIVER PORT B	
SIZE	D CS	NUMBER	MS923-0-1
REV.	F	...	...

A

A

D

D

C

C

B

B

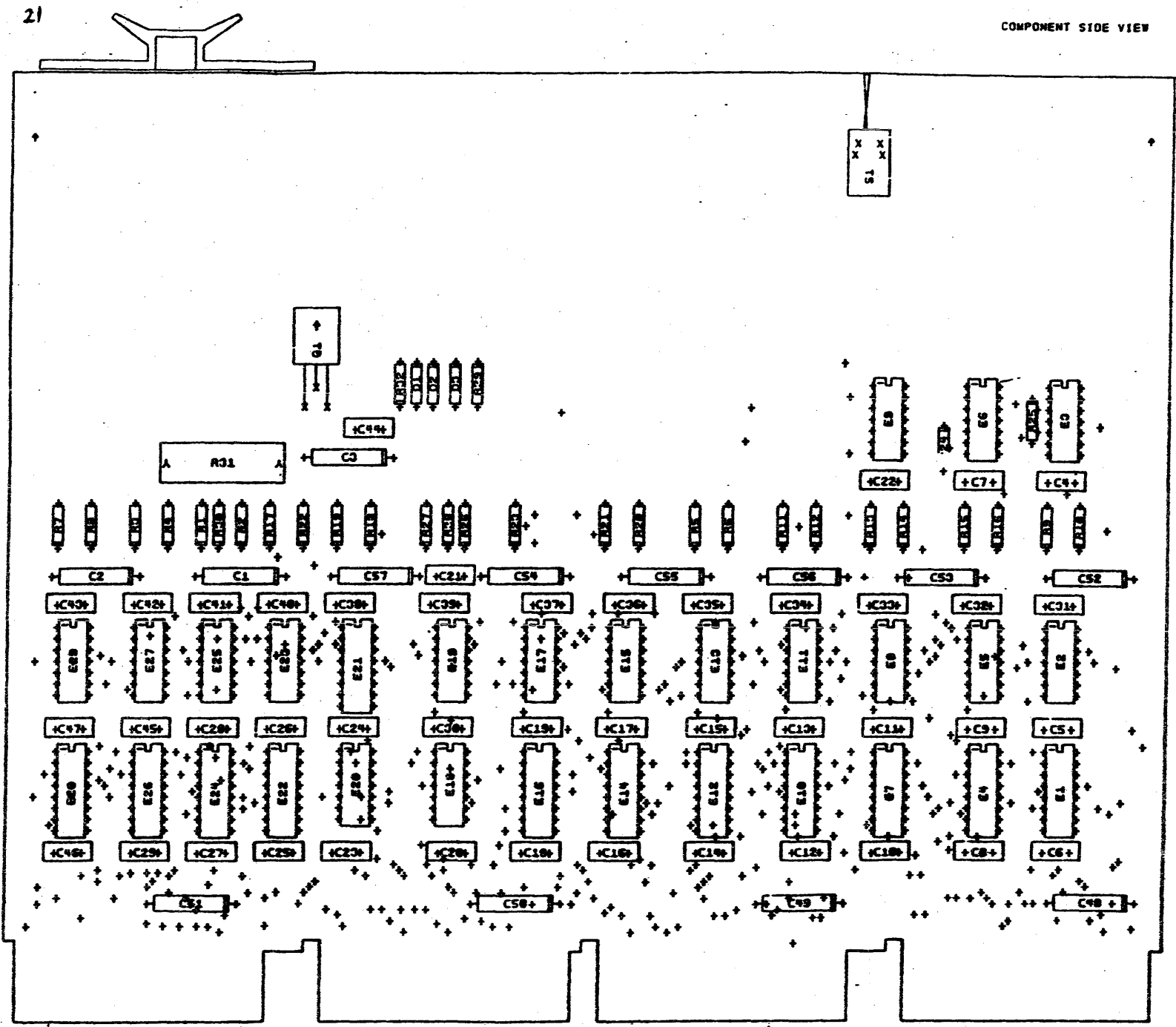
A

A

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**REWORK INSTRUCTIONS**  
 COMPONENT DELETE SIDE 1:  
 1-1 DELETE E6 (PN 1905684-00)  
 COMPONENT ADD SIDE 1:  
 1-2 ADD E6 (PN 1911324-00)

23,24,25



NOTES:

CHANGE NO.	REV.	DATE	BY	CHKD.

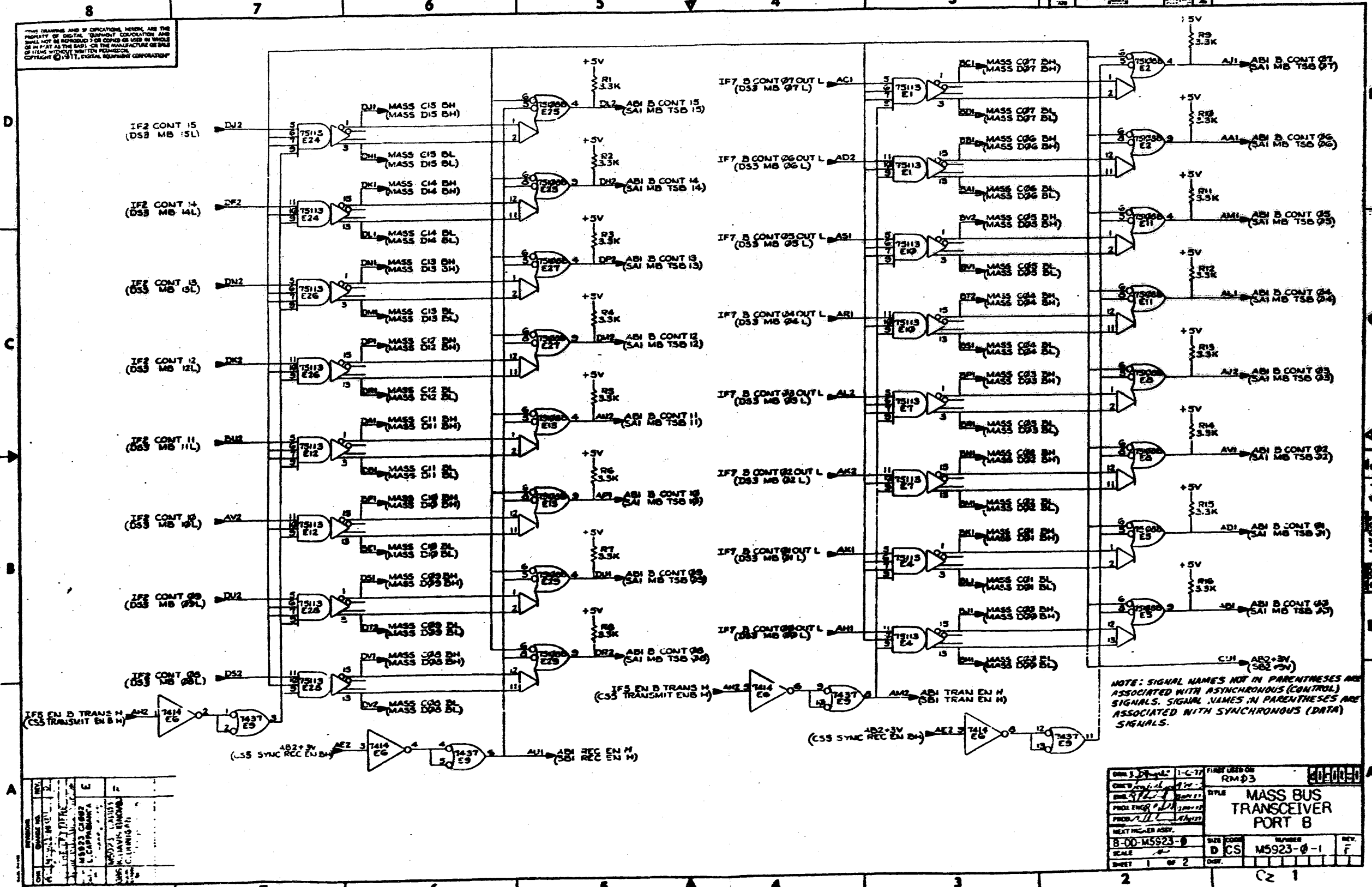
ETCH REV.	
P.C. DESIGN ORTR BRSE REV.	

SIGNATURES	DATE
DRN.	
ENC. D.	
PROJ. ENG.	
PROD.	
SCALE	
SMT.	075
NEXT HIGHER REV.	

digital	
TITLE MASS BUS	
TRANSEIVER PORT B	
SIZE CODE	NUMBER
0 115 1523-07 E	

1 MS#

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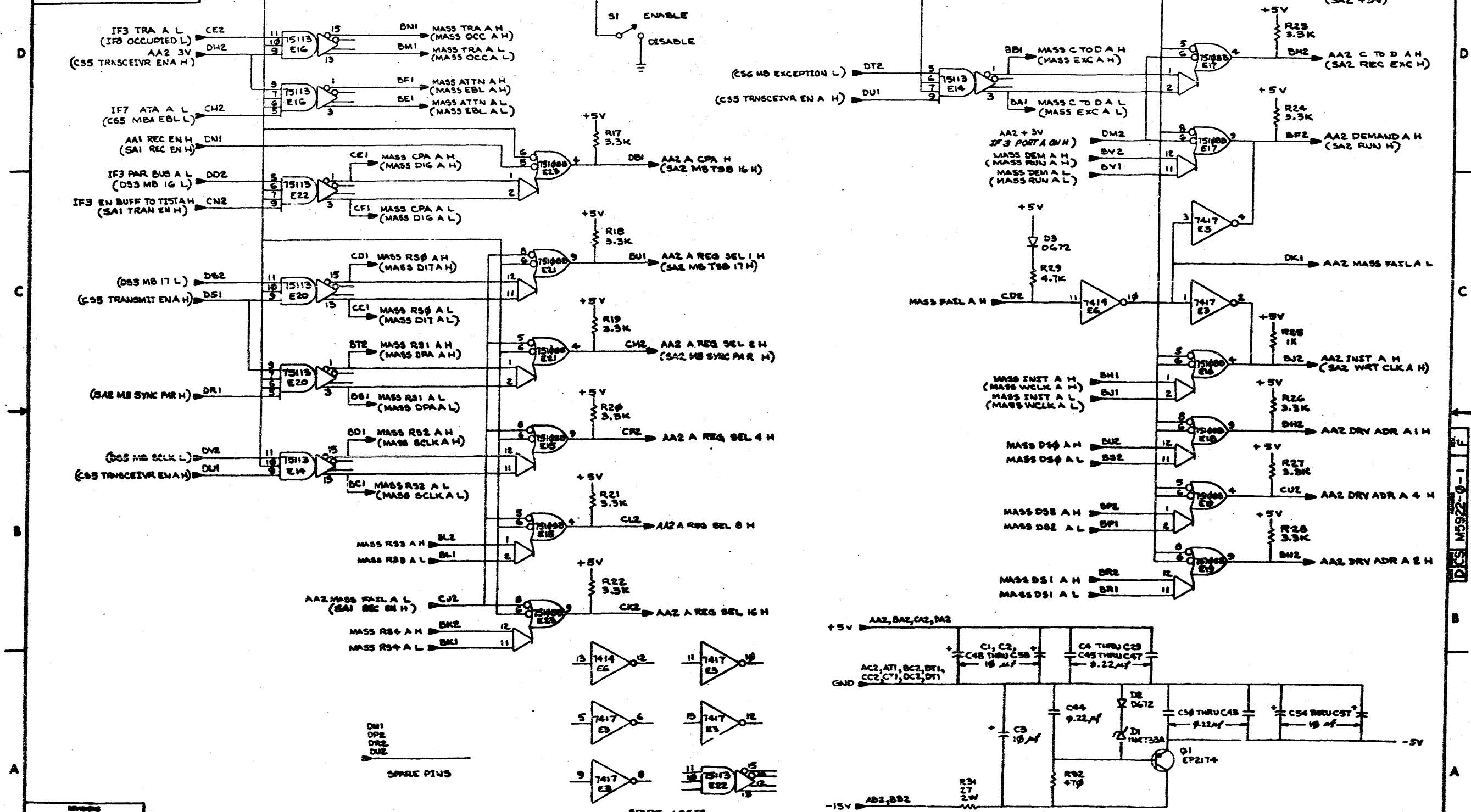


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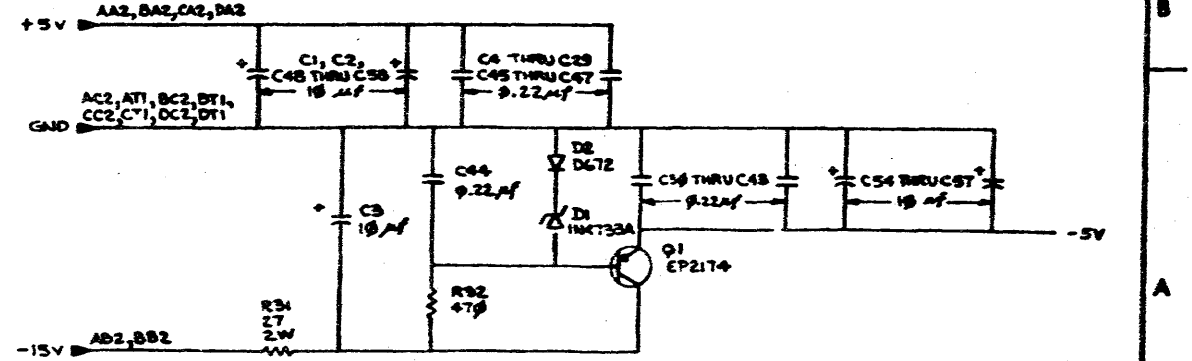
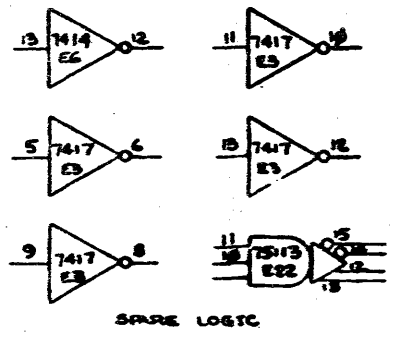
REV.	DATE	BY	CHKD.	APP.
1	11/11/77	L. CAPPABIANCA		
2	11/11/77	M. J. HARRIS		
3	11/11/77	M. J. HARRIS		
4	11/11/77	M. J. HARRIS		

DESIGN NO.	1-C-77	FIRST USED ON	RM 03
DATE	11/11/77	TITLE	MASS BUS TRANSCEIVER PORT B
PROJ. ENGR.	M. J. HARRIS	SCALE	
PROJ. CHECKER	M. J. HARRIS	SHEET	1 OF 2
DESIGNER	M. J. HARRIS	NO.	
DATE	11/11/77	REV.	F

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REV	CHANGE NO.	REV.





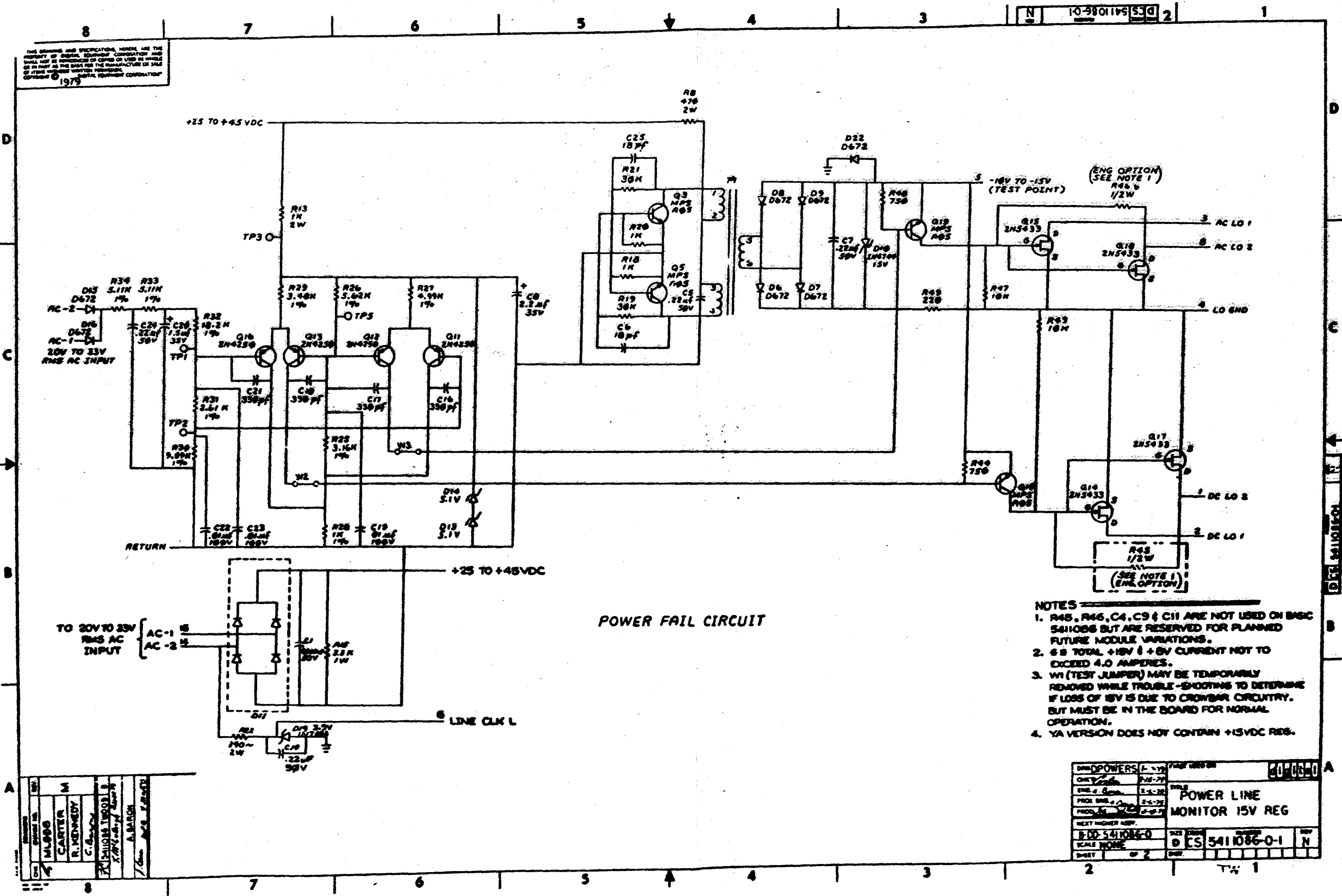
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	D-CS-M5922-0-1		CIRCUIT SCHEMATIC	REF	
2	D-UA-M5922-0-0		UNIT ASSEMBLY	REF	
3	B-DD-M5922-0-0		DWG. DIRECTORY	REF	
4	D-MD-5012462-0-0		DRILL & ETCH DWG.	REF	
5		5012462-00	M5922	1	
6		1017472-00	10 MFD 35V +50-10% AL EL	13	C1,C2,C3,C48-C57
7		1010274-00	.22 MFD 50V +80-20% Z5U CER	44	C4-C47
8		1105275-00	D 672 TR= 15NS PIV= 60V SI	2	D2,D3
9		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1	D1
10		1300316-00	470.0 .25 W 5.0 % CC	1	R32
11		1300439-00	3.30 K .25 W 5.0 % CC	27	R1-R24,R26,R27,R28
12		1300447-00	4.70 K .25 W 5.0 % CC	1	R29
13		1305624-00	27.0 2.0 W10.0 % CC	1	R31
14		1300309-00	390.0 .25 W 5.0 % CC	1	R30
15		1512589-00	PNP 40W SI 60 25	1	Q1
16		1911324-00	7414 INVERTER,HEX 1IN SCH	1	E6
17		1909929-00	7417 BUFFER GATE-HEX 1INP	1	E3
18		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E9
19		1910725-00	75108B RECEIVER,LINE,DUAL,	14	E2,E5,E8,E11,E13,E15,E17,E18, E19,E21,E23,E25,E27,E29
20		1911341-00	75113 DRIVER,LINE,DUAL,MA	12	E1,E4,E7,E10,E12,E14,E16,E20, E22,E24,E26,E28
21		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
22		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	8	
23		9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	1	
24		9006557-00	NUT,KEP 4-40X 1/4 AF	1	
25		9008268-00	COMPOUND, THERMAL JOINT	A/R	
26		1210209-00	SW,TOG,SPDT,.01A@6V,ON/ON,SUBMIN	1	S1
27		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
28		1300365-00	1.0 K .25 W 5.0 % CC	1	R25

REVISION HISTORY		BASIC PART NO: M5922		DRN:	R. SULLIVAN	DATE:	17-JUL-78	DIGITAL			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	C. BEVERLIE	DATE:	17-JUL-78	TITLE PARTS LIST			
ER	00001	D	SECTION.VARIATION INDEX	DES.ENG:	RV	DATE:	17-JUL-78	TITLE PARTS LIST			
LC	M5922-CX002	E	[A] 00	RESP.ENG.:	RV	DATE:	17-JUL-78	TITLE PARTS LIST			
CD	M5922-CX003	F	[B]	MFG.ENG.:	MR	DATE:	17-JUL-78	TITLE PARTS LIST			
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #		
			[D]	D-UA-M5922-0-0		RM03		Z0846F.PLS	6		
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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 1975



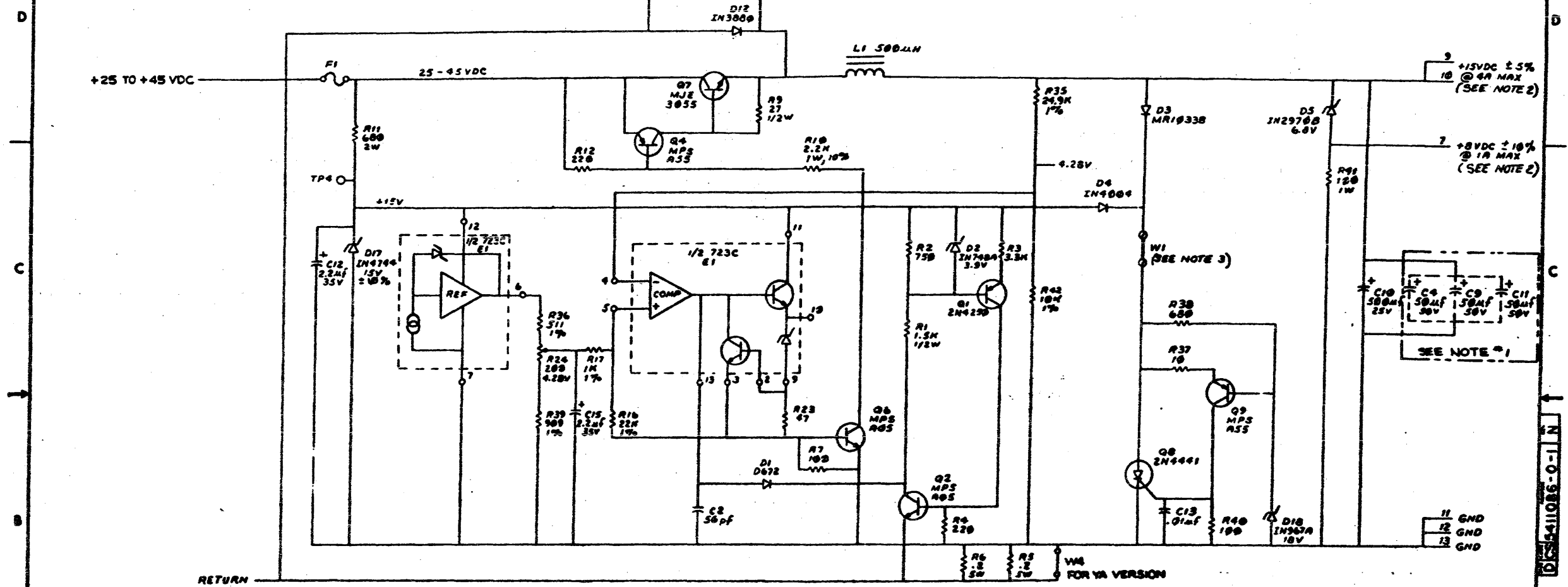
POWER FAIL CIRCUIT

- NOTES
1. R45, R46, C4, C9 & C11 ARE NOT USED ON BASIC 5411086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
  2. 6 S TOTAL +15V & +5V CURRENT NOT TO EXCEED 4.0 AMPERES.
  3. W1 (TEST JUMPER) MAY BE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROWBAR CIRCUITRY, BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
  4. YA VERSION DOES NOT CONTAIN +15VDC REG.

DESIGNED BY	MLG:BB
CHECKED BY	CARTER
APPROVED BY	R. KENNEDY
DATE	10/10/75
BY	ALBARRON

DRWG NO.	POWER LINE MONITOR 15V REG
REV.	1
DATE	10-10-75
BY	MLG:BB
CHECKED BY	CARTER
APPROVED BY	R. KENNEDY
DATE	10/10/75
BY	ALBARRON
SCALE	NONE
SHEET	1 OF 2

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15V REGULATOR  
(SEE NOTE #1)

REV	CHANGE NO	DATE

TITLE	PWR. LINE MONITOR/15V REG.	DESIGNER	DCS 5411086-0-1	NUMBER	N	REV	N
SCALE		SHEET	2	OF	2	DATE	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION		REFERENCE DESIGNATOR
					00	YA	
1	1	B-DD-5411086-0-0		DRAWING DIRECTORY	REF	REF	
2	2	D-UA-5411086-0-0		UNIT ASSEMBLY	REF	REF	
3	3	D-CS-5411086-0-1		CIRCUIT SCHEMATIC	REF	REF	
4	4		5011085-00	ETCH BRD 5411086	1	1	
5	5		1000012-00	56.0 MWF 100V 58200PPM DM155	1	0	C2
6	6		1000023-00	330.0 MWF 100V 58200PPM DM155	4	4	C16,C17,C18,C21
7	7		1001610-01	.01 MFD 100V -20+80 25U DTSC	5	0	C3,C13,C19,C22,C23
			CONT		0	3	C19,C22,C23
8	8		1002431-00	2.2MFD 35V 10% 150S S.TA	3	0	C8,C12,C15
			CONT		0	1	C8
9	9		1002608-00	10.0 MWF 100V 58200PPM DM155	2	2	C6,C25
10	10		1009725-00	1.5MFD 35V 10% 1500 S.TA	1	1	C20
11	11		1010274-01	.22 MFD 50V -20+80 25U CER	4	4	C5,C7,C14,C24
12	12		1010509-01	500 MFD 25V G8 6010 AL EL	1	0	C10
13	13		1010051-00	8400 MFD 50V G8 360 AL EL	1	1	C1
14	14		1100122-00	1N 740A VZ= 3.9 5% 5% 5%	2	0	D2,D19
			CONT		0	1	D19
15	15		1100134-00	1N 2970B VZ= 6.8 5% 10N M	1	0	D5
16	16		1103341-00	MR10330 PIV=300 I= 3A Z44 8M	1	0	D3
17	17		1105275-00	D 672 TR= 15NS PIV= 60V 8I	0	0	D1,D6,D7,D8,D9,D15,D16,D22
			CONT		0	7	D6,D7,D8,D9,D15,D16,D22
18	18		1105648-00	1N 4744 VZ= 15.0 10% 1M	2	0	D14,D17
			CONT		0	1	D14
19	19		1105796-00	1N 4004 PIV=400 I= 1A D041 8P	1	0	D4
20	20		1109440-00	1N 3000 PIV=100 I= 6A D04 8M	1	0	D12
21	21		1110068-00	1N 967A VZ= 10.0 10% 40W Y	1	0	D10
22	22		1110324-00	*** THIS ITEM IS NOT USED ***	0	0	
23	23		1110714-00	H883514 FWR400 I=20A (TRN)	1	1	D11
24	24		1105873-00	4N5-1AZ1 VZ= 5.1 1% .400W	2	2	D13,D14
25	25		1205767-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	0	F1

REVISION HISTORY		BASIC PART NO: 5411086		DRW: R. PETERSON	DATE: 04-JAN-79	D I G I T A L			
ENGR	ECO NUMBER	REV	SECTION A OF A	CHK'D: J. FERGUSON	DATE: 04-JAN-79	TITLE PARTS LIST			
C.L.	5411086-WL098	0	SECTION VARIATION INDEX			PWR. LINE MONITOR/15V REG.			
			(A) 00, YA						
			(B)	DES. ENGR: V. BOAEN	DATE: 04-JAN-79				
			(C)						
			(D)	RESP. ENGR: V. BOAEN	DATE: 04-JAN-79	DOCUMENT NUMBER			
			(E)						
			(F)						
			(H)	MFG. ENGR: R. PETERSON	DATE: 04-JAN-79	SIZE: K	CODE: PL	NUMBER: 5411086-0-08P	REV: 0
			(J)						
			(K)						
			(L)	ASSEMBLY NUMBER: D-UA-5411086-0-0	TOP DOCUMENT NUMBER:	FILE NAME: 202030.PLS	EDIT:	13	
			(M)						
			(N)						

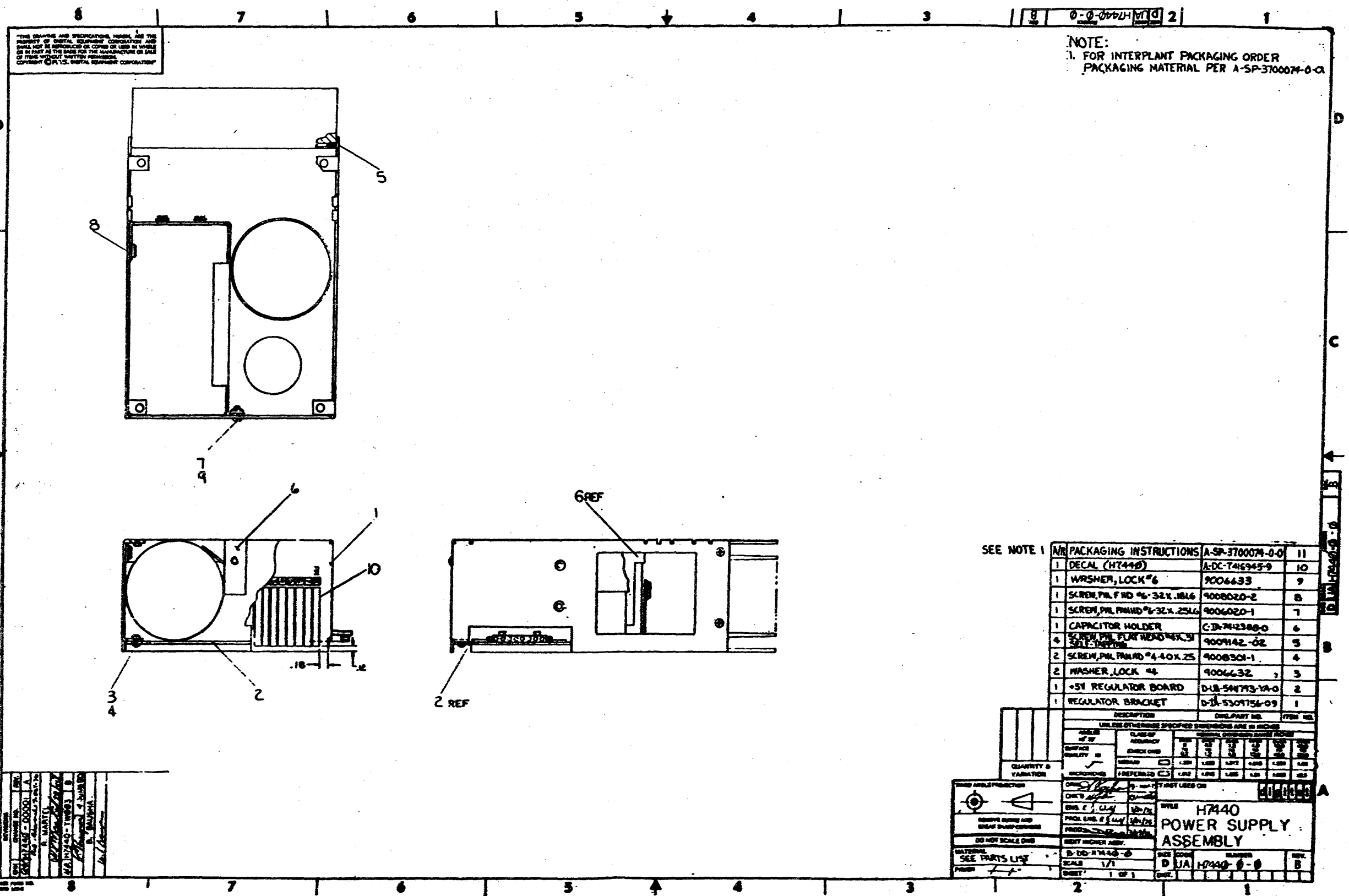
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION		REFERENCE DESIGNATOR
				00	YA	
26	26	1211986-00	HEAT SINK FOR H742	1	0	
27	27	1300202-00	47.0 .25 W 5.0 %	1	0	R23
28	28	1300229-00	100.0 .25 W 5.0 %	2	0	R7,R40
29	29	1300232-00	100.0 1.0 W 5.0 %	1	0	R41
30	30	1300271-00	220.0 .25 W 5.0 %	3	0	R4,R12,R49
		CONT			1	R49
31	31	1300278-00	220.0 2.0 W 10.0 %	1	0	R14
32	32	1300348-00	600.0 2.0 W 5.0 %	1	0	R11
33	33	1300365-00	1.0 K .25 W 5.0 %	2	2	R10,R20
34	34	1300394-00	1.50 K .50 W 5.0 %	1	0	R1
35	35	1300420-00	2.20 K 1.0 W 10.0 %	1	0	R10
36	36	1300437-00	3.30 K 1.0 W 10.0 %	1	1	R15
37	37	1300439-00	3.30 K .25 W 5.0 %	1	0	R3
38	38	1300479-00	10.0 K .25 W 5.0 %	2	2	P43,R47
39	39	1301317-00	10.0 .25 W 5.0 %	1	0	R37
40	40	1301401-00	750.0 .25 W 5.0 %	3	0	R2,R44,R48
		CONT			2	R44,R48
41	41	1301424-00	600.0 .25 W 5.0 %	1	0	R30
42	42	1301800-00	22.0 K .25 W 5.0 %	1	0	R16
43	43	1301952-00	1.0 K 2.0 W 5.0 %	1	1	R13
44	44	1302253-00	27.0 .50 W 5.0 %	1	0	R9
45	45	1302394-00	30.0 K .25 W 5.0 %	2	2	R19,R21
46	46	1302411-00	511 1/4W 1% RN550-F 100PPH	1	0	R36
47	47	1302605-00	909 1/4W 1% RN550-F 100PPH	1	0	R39
48	48	1303045-00	3.16 K 1/4W 1% RN550-F 100PPH	1	1	R25
49	49	1303062-00	470.0 3.0 W 5.0 %	1	1	R0
50	50	1303114-00	1.0 K 1/4W 1% RN550-F 100PPH	2	0	R17,R20
		CONT			1	R20
51	51	1303303-00	2.61 K 1/4W 1% RN550-F 100PPH	1	1	R31
52	52	1303312-00	10.0 K 1/4W 1% RN550-F 100PPH	1	0	R42
53	53	1304854-00	5.11 K 1/4W 1% RN550-F 100PPH	2	2	R33,R34
54	54	1304855-00	9.09 K 1/4W 1% RN550-F 100PPH	1	1	R30
55	55	1305114-00	3.40 K 1/4W 1% RN550-F 100PPH	1	1	R29
56	56	1305120-00	5.62 K 1/4W 1% RN550-F 100PPH	1	1	R26
57	57	1305324-00	4.99 K 1/4W 1% RN550-F 100PPH	1	1	R27
58	58	1305405-00	24.9 K 1/4W 1% RN550-F 100PPH	1	0	R35
59	59	1309150-10	200 1/2W20% POT 0 TO 250	1	0	R24
60	60	1309412-00	18.2 K 1/4W 1% RN550-F 100PPH	1	1	R32
61	61	1309884-00	.2 5W 5% WH	2	0	R5,R6
62	62	1510555-00	NJE3055 NPN 90MC 8I 60 20 Y	1	0	Q7
63	63	1510705-00	XA 05 NPN 500MW 8I 60 50 P	6	0	Q2,Q3,Q5,Q6,Q10,Q19
		CONT			4	Q3,Q5,Q10,Q19
64	64	1510706-00	XA 55 PNP 500MW 8I 60 50 P	2	0	Q4,Q9
65	65	1505867-00	2N 4441 3CR0 50V & 8A	1	0	Q8
66	66	1509142-00	DEC4250 PNP 200MW 8I 40250	5	0	Q1,Q11,Q12,Q13,Q16
		CONT			4	Q11,Q12,Q13,Q16
67	67	1511600-00	DEC5433 FET N 350MW 10 25 1A	4	0	Q14,Q15,Q17,Q18
68	68	1511860-00	500 UH 20% 5A	1	0	L1

D	I	G	I	T	A	L	TITLE	SECTION	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							PWR. LINE MONITOR/15V REG.				K	PL	5411006-0-000	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
69	69		1612026-00	PULSE XFMR RATIO 1:1:1 100UH	1	1		T1
70	70		1910415-00	723 VOLT REG VAR 2/37V	1	0		E1
71	71		9006012-01	SCREW,PAN ,PHIL, 4-40X 7/16	1	0		
72	72		9006020-01	SCREW,PAN ,PHIL, 6-32X 1/4	1	0		
73	73		9006027-01	SCREW,PAN ,PHIL, 6-32X 7/8	1	0		
74	74		9006557-00	NUT,KEP , 4-40X 1/4 AF	1	0		
75	75		9006565-00	NUT,KEP , 10-32X 3/8 AF	2	0		
76	76		9006635-00	WASHER,LOCK,INT,.3100 X .200ID	2	2		
77	77		9006660-00	WASHER, FLAT, .500 OD X .187 ID	2	0		
78	78		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	2	0		
79	79		9006851-00	SPACER, HEX, ALUM. 6-32, .250 X	1	0		
80	80		9007980-00	TIE, CABLE, SST-1.5M	4	4		
81	81		9007930-00	TERM RING 1POS INSULATED,22-16	2	2		
82	82		9008007-01	SCREW,PAN ,PHIL, 10-32X 1/4 S	2	2		
83	83		9008150-00	TERM LUG 1POS LOCKING,SOLDER	2	0		
84	84		9008185-00	NUT,KEP , 6-32X1/4 AF	1	0		
85	85		9008260-00	COMPOUND, THERMAL JOINT	A/R	0		
86	86		9008424-00	WASHER, FLAT, THERMAFILM, .562 O	4	0		
87	87		9008440-00	BUSHING, NYLON, .248 O.D. X .190	2	0		
88	88	BLANK			0	0		
89	89		1301000-00	390.0 2.0 W10.0 3 CC	1	1		R22
90	90		9009105-00	JUMPER, WIRE, INSULATED, BLACK B	3	0		W1,W2,W3
			CONT		0	3		W4,W2,W3
91	91		9107360-00	WIRE,STRND,18AWG,IPVC UL1429	A/R	A/R		
92	92	A-SP-11/45-TA-2		MODULE TEST PROCEDURE	REF	REF		
93	93		9006713-00	WASHER, NYLON, FLAT 40 .437 OD	1	1		
94	94		7413721-00	SHIM .010 IN.	1	1		
95	95	A-SP-5411000-0-3		ENG. SPEC-AND TEST PROC.	REF	REF		
96	96		9009597-00	INSULATOR, THERMA-FILM	1	0		
97	97		9107560-01	*** THIS ITEM IS NOT USED ***	0	0		

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE/CODE	DOCUMENT NUMBER	REV
							PWR. LINE MONITOR/15V REG.		K PL	5411000-0-00P	0



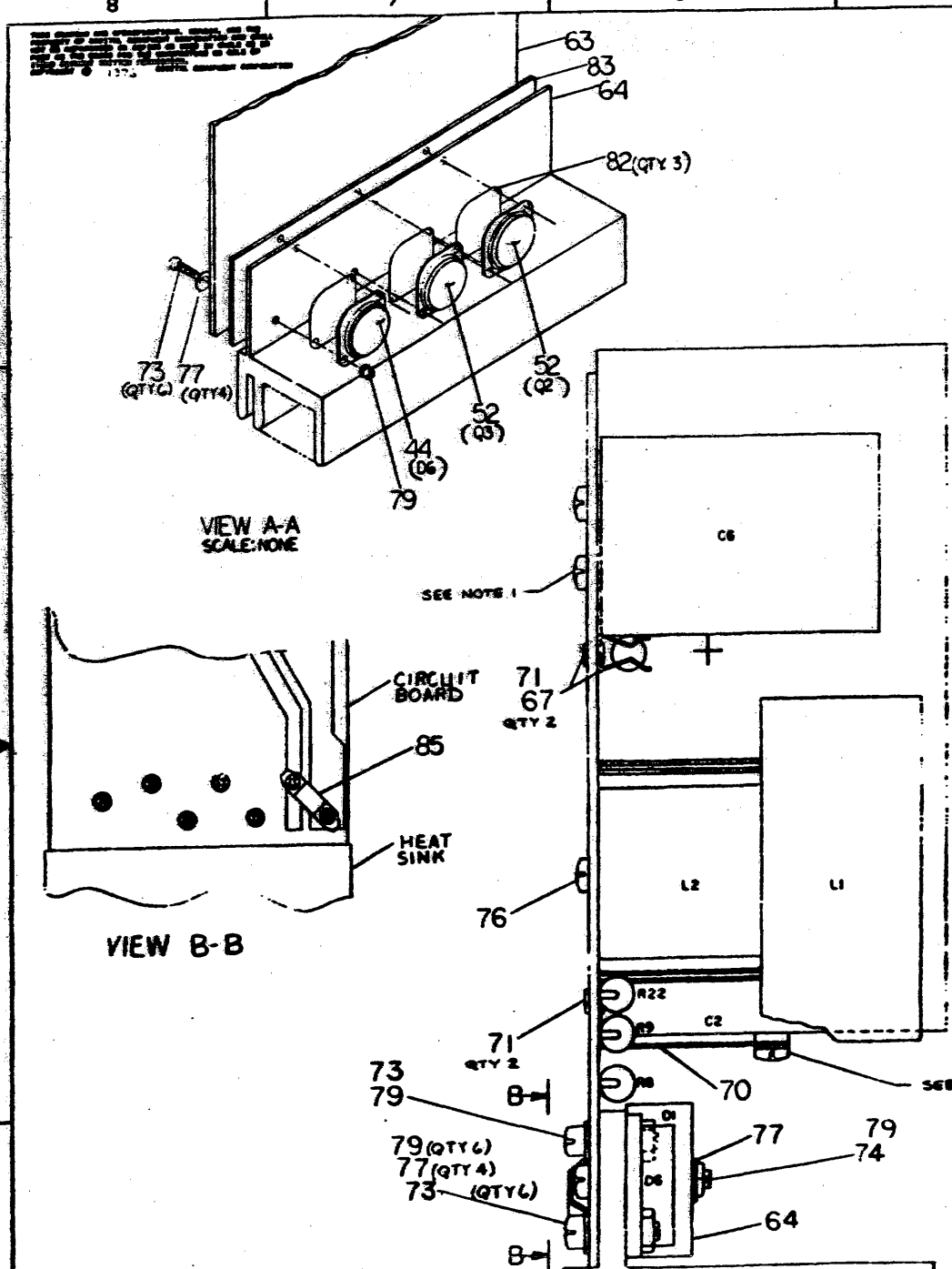
DESIGNED BY: C. COOIL A  
 DRAWN BY: A. MARTEL  
 CHECKED BY: J. J. JONES B  
 APPROVED BY: J. J. JONES B  
 DATE: 1/1/75  
 PART NO: H7440-0-0  
 REV: B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS  
 SURFACE FINISH: CHECK ONE  
 DIMENSIONS: CHECK ONE  
 TOLERANCES: CHECK ONE  
 FINISH: CHECK ONE  
 MATERIALS: CHECK ONE  
 FINISH: CHECK ONE

H7440  
 POWER SUPPLY ASSEMBLY  
 SCALE: 1/1  
 SHEET: 1 OF 1



COMPONENT SIDE VIEW



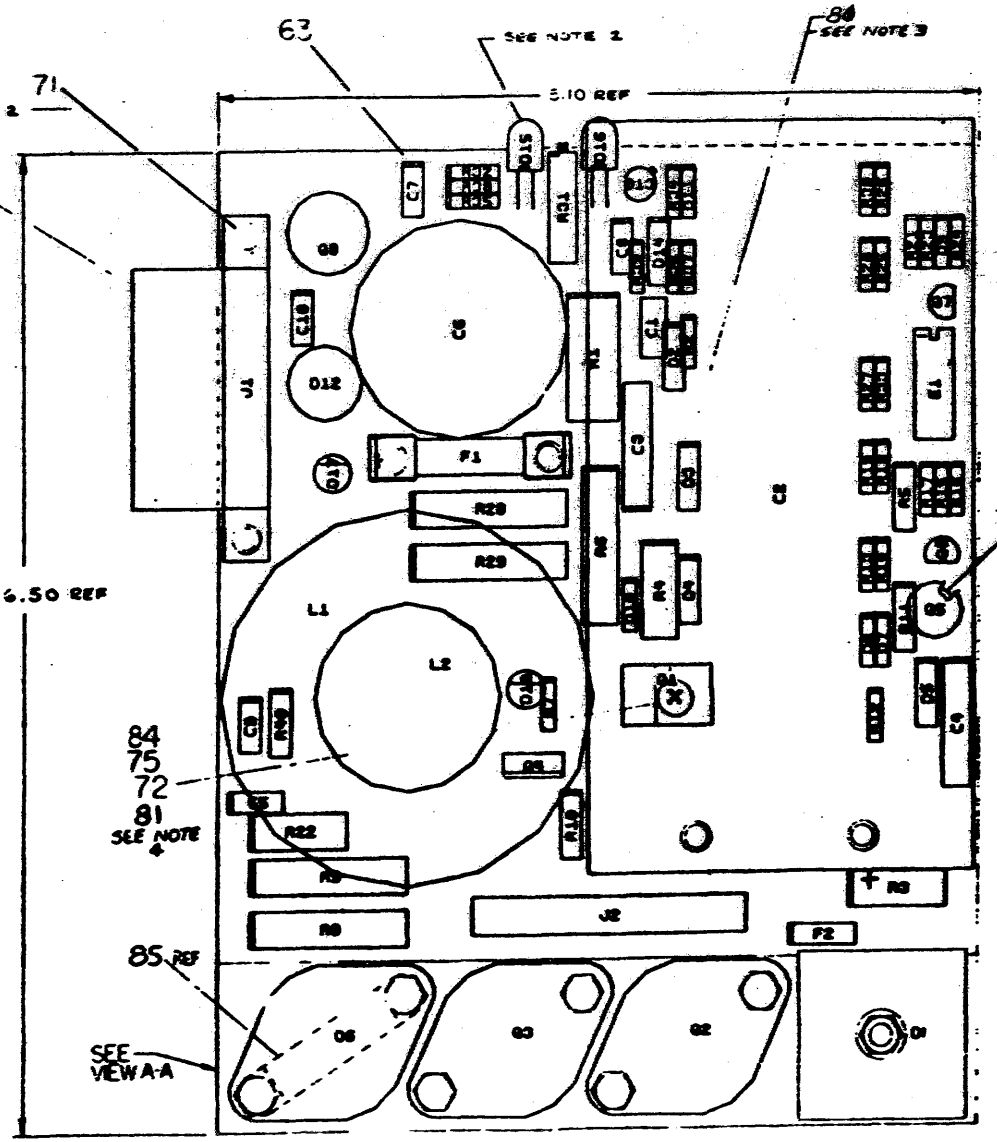
VIEW A-A  
SCALE: NONE

VIEW B-B

NOTES:  
 1. ALL HARDWARE FOR C1, C2, C3 ARE SUPPLIED WITH THE CAPACITORS.  
 2. FOR VARIATION SEE PARTS LIST.  
 3. SLEEVE LEADS OF R1, R2, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100.  
 4. USE ITEM #1 COMPUND UNDER R22.  
 5. TORQUE ALL HARDWARE TO 1 IN-LBS. BEFORE SOLDERING COMPONENTS TO PC BOARD.

QTY	DESCRIPTION	REF
1	COVER	63
1	HEAT SINK	85
1	CIRCUIT BOARD	85
1	PC BOARD	71
1	RESISTOR	81
1	RESISTOR	82
1	RESISTOR	83
1	RESISTOR	84
1	RESISTOR	85
1	RESISTOR	86
1	RESISTOR	87
1	RESISTOR	88
1	RESISTOR	89
1	RESISTOR	90
1	RESISTOR	91
1	RESISTOR	92
1	RESISTOR	93
1	RESISTOR	94
1	RESISTOR	95
1	RESISTOR	96
1	RESISTOR	97
1	RESISTOR	98
1	RESISTOR	99
1	RESISTOR	100

68 REF  
69 QTY 3



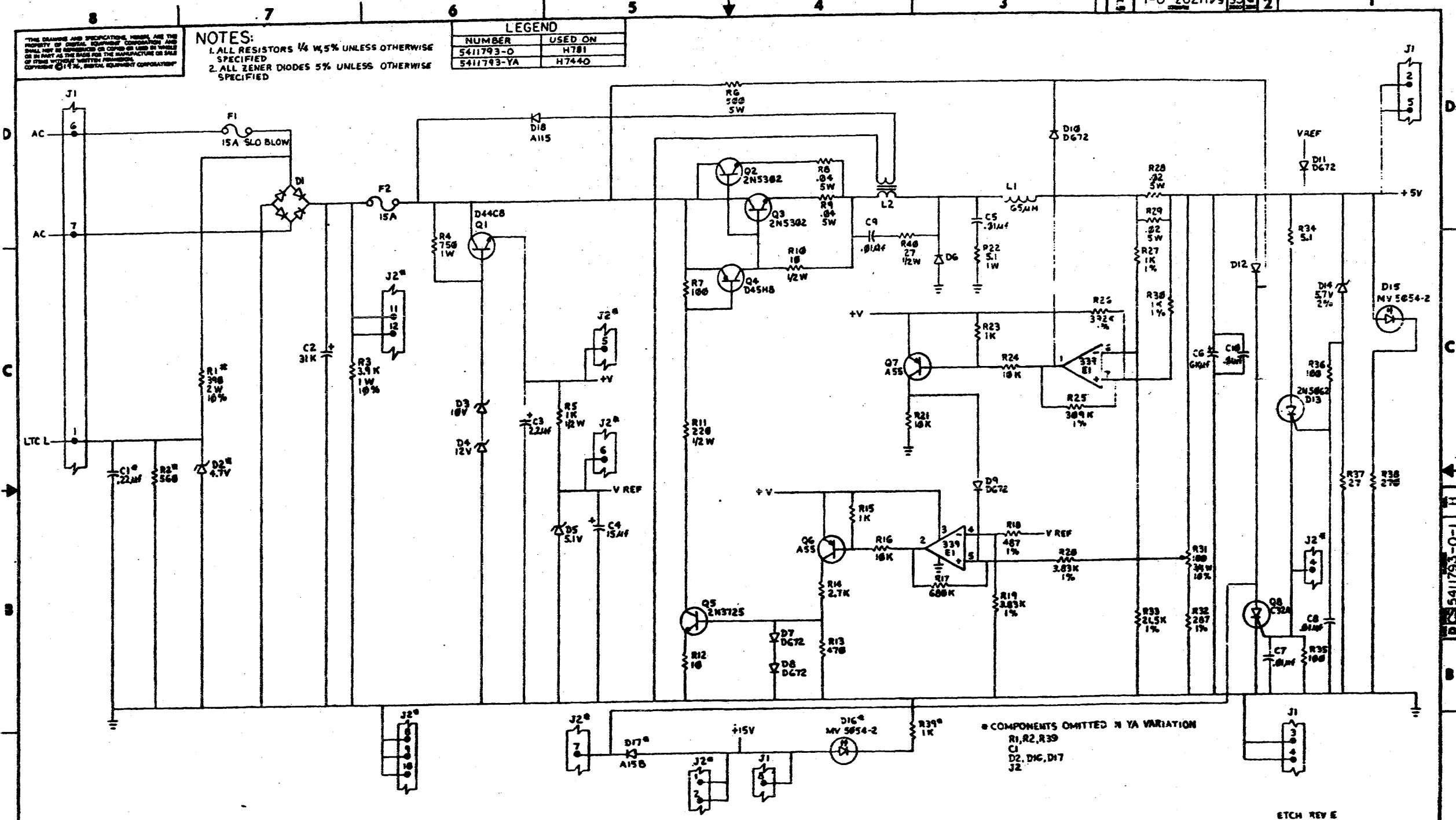
SIGNATURES		DATE
OWN		
ENG. D.		
PROJ. ENG.		
SCALE	2/1	
SHT.	OF 1	
NEXT MEMBER ASSY.		

digital	
TITLE: +5V REGULATOR POWER SUPPLY	
SIZE CODE	NUMBER
U 5411793-0-0 H	
1 MSB 50727	

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**NOTES:**  
 1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE SPECIFIED  
 2. ALL ZENER DIODES 5% UNLESS OTHERWISE SPECIFIED

LEGEND	
NUMBER	USED ON
5411793-0	H781
5411793-YA	H7440



\* COMPONENTS OMITTED IN YA VARIATION  
 R1, R2, R39  
 C1  
 D2, D4C, D17  
 J2

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	11/11/76	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...

ETCH REV E		PART USED ON	
REV	DATE	BY	CHKD
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...

TITLE: +5V REGULATOR POWER SUPPLY  
 D-CS-5411793-0-1  
 SHEET 2 OF 2

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PARTS LIST				QUANTITY/VARIATION					
MADE BY BOB WOLF		CHECKED <i>[Signature]</i>		SECTION 1		ETCH REV E		5411793-0-0		5411793-YA			
DATE 11/SEPT/75		DATE 19 FEB 76		ISSUED SECT. 1									
ENG <i>[Signature]</i>		PROG <i>[Signature]</i>											
DATE 16 MAR 76		DATE 16 MAR 76											
ITEM NO	DWG NO. / PART NO.	DESCRIPTION											
1	D-CS-5411793-0-1	+5V REGULATOR POWER SUPPLY (C.S.)	REF										
2	D-AH-5411793-0-5	ASSY/DRILLING HOLE LAYOUT	REF										
3	D-MH-5411793-0-6	MODULE ECO HISTORY	REF										
4	1301880-00	RES 290, 24, 10%	CC	1	R1								
5	1301890-00	RES 560, 1/4W, 5%	CC	1	R2								
6	1302927-00	RES 3.9K, 1/4W, 10%	CC	1	R3								
7	1302385-00	RES 750, 1W, 5%	CC	1	R4								
8	1300364-00	RES 1K, 1/4W, 5%	CC	1	R5								
9	1303169-00	RES 500, 5W	CC	1	R6								
10	1300229-00	RES 100, 1/4W, 5%	CC	3	R7, R35, R36								
11	1311362-00	RES .04, 5W, 5%	CC	2	R8, R9								
12	1300168-00	RES 10, 1/4W, 5%	CC	1	R10								
13	1300274-00	RES 220, 1/4W, 5%	CC	1	R11								
14	1301317-00	RES 10, 1/4W, 5%	CC	1	R12								
15	1300316-00	RES 470, 1/4W, 5%	CC	1	R13								
16	1300426-00	RES 2.7K, 1/4W, 5%	CC	1	R14								
17	1300263-00	RES 1K, 1/4W, 5%	CC	3	R15, R23, R29								
18	1300867-00	RES 680K, 1/4W, 5%	CC	1	R17								
19	1303114-00	RES 1K, 1/4W, 5%	MF	2	R27, R30								
20	1311842-00	RES 487, 1/4W, 1%	MF	1	R18								
21	1309413-00	RES 3.9K, 1/4W, 1%	MF	2	R19, R20								
22	1300479-00	RES 10K, 1/4W, 5%	CC	3	R21, R16, R24								
TITLE +5V REGULATOR POWER SUPPLY			ASSY NO. D-UA-5411793-0-0	SIZE CODE A PL	NUMBER 5411793-0-0	REV H	ECO NO 00003						
SHEET 1 OF 4			DIST										

SEC FORM DEC 16 (75) 1031-NB78  
994 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PARTS LIST				QUANTITY/VARIATION					
MADE BY BOB WOLF		CHECKED <i>[Signature]</i>		SECTION 1		ETCH REV E		5411793-0-0		5411793-YA			
DATE 11/SEPT/75		DATE 19 FEB 76		ISSUED SECT. 1									
ENG <i>[Signature]</i>		PROG <i>[Signature]</i>											
DATE 16 MAR 76		DATE 16 MAR 76											
ITEM NO	DWG NO. / PART NO.	DESCRIPTION											
23	1302136-00	RES 5.1, 1W, 5%	CC	1	R22								
24	1305426-00	RES 309K, 1/4W, 1%	MF	1	R25								
25	1305426-00	RES 392K, 1/4W, 1%	MF	1	R26								
26	1310876-00	RES .02, 5W, 5%		2	R28, R29								
27	1309143-04	RES 100, 3/4W, 10% POT		1	R32								
28	1305124-00	RES 287, 1/4W, 1%	MF	1	R32								
29	1309422-00	RES 5.1, 1/4W, 5%	CC	1	R34								
30	1301522-00	RES 27, 1/4W, 5%	CC	1	R37								
31	1301972-00	RES 270, 1/4W, 5%	CC	1	R38								
32	1303153-00	RES 21.5K, 1/4W, 1%	MF	1	R33								
33	1010274-00	CAP .22UF, 50V		1	C1								
34	1010958-00	CAP 33K, UF, 50V		1	C2								
35	1002431-00	CAP 2.2UF, 35V 10%		1	C3								
36	1004812-00	CAP 150UF, 20V, 10%		1	C4								
37	1012794-00	CAP 600UF, 10V		1	C5								
38	1001610-01	CAP .01UF 100V		5	C7, C8, C9, C10								
39	1110714-00	DIODE RECTIFIER BRIDGE NSS3514		1	D1								
40	1110994-00	DIODE 5.1V, .4A, 5% ZENER 51A		1	D5								
41	1100125-00	DIODE 10V, .4A, 5% ZENER 758A		1	D3								
42	1110836-00	DIODE 12V, .4A, 5% ZENER 759A		1	D4								
43	1105275-00	DIODE D72		5	D7, D9, D10, D11, D8								
44	1110715-00	DIODE RECTIFIER T03		1	D6								
TITLE +5V REGULATOR POWER SUPPLY			ASSY NO. D-UA-5411793-0-0	SIZE CODE A PL	NUMBER 5411793-0-0	REV H	ECO NO 00003						
SHEET 2 OF 4			DIST										

SEC FORM DEC 16 (75) 1031-NB78  
994 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PARTS LIST				QUANTITY/VARIATION					
MADE BY BOB WOLF		CHECKED <i>[Signature]</i>		SECTION 1		ETCH REV E		5411793-0-0		5411793-YA			
DATE 11/SEPT/75		DATE 19 FEB 76		ISSUED SECT. 1									
ENG <i>[Signature]</i>		PROG <i>[Signature]</i>											
DATE 16 MAR 76		DATE 16 MAR 76											
ITEM NO	DWG NO. / PART NO.	DESCRIPTION											
45	1103341-00	DIODE MR1033B		1	D11								
46	1110968-00	DIODE 2N5062 SCR		1	D12								
47	1111205-00	DIODE 5.7V, 2% ZENER		1	D14								
48	1110864-00	DIODE LED MV5054-2		2	D15, D16								
49	1110420-00	DIODE A15B		1	D17								
50	1112594-02	DIODE A15M		1	D18								
51	1510421-00	TRANS D44CB		1	Q1								
52	1510196-00	TRANS 2N3202		2	Q2, Q3								
53	1510708-00	TRANS D45HB		1	Q4								
54	1510259-00	TRANS 2N3725		1	Q5								
55	1510706-00	TRANS A55		2	Q6, Q7								
56	1510928-00	TRANS C32A		1	Q8								
57	1912108-00	I.C. LM 339		1	E1								
58	1612673-00	XFER 65UH, 10A		1	L1								
59	1612672-00	XFER 1:5		1	L2								
60	9007227-00	15A SLOW BLOW FUSE		1	F1								
61	1210929-00	15A PICO FUSE		1	F2								
62	1302253-00	RES, 27K, 1/2W, 5%	CC	1	R40								
63	5011798	ETCHED CIRCUIT BOARD		1									
64	1210737-01	HEAT SINK		1									
65	1100124-00	DIODE, 4.7V, 4W, 5% ZENER 750A		1	D2								
66	1212899	CONN 12 PIN		1	J2								
TITLE +5V REGULATOR POWER SUPPLY			ASSY NO. D-UA-5411793-0-0	SIZE CODE A PL	NUMBER 5411793-0-0	REV H	ECO NO 00003						
SHEET 3 OF 4			DIST										

SEC FORM DEC 16 (75) 1031-NB78  
994 110

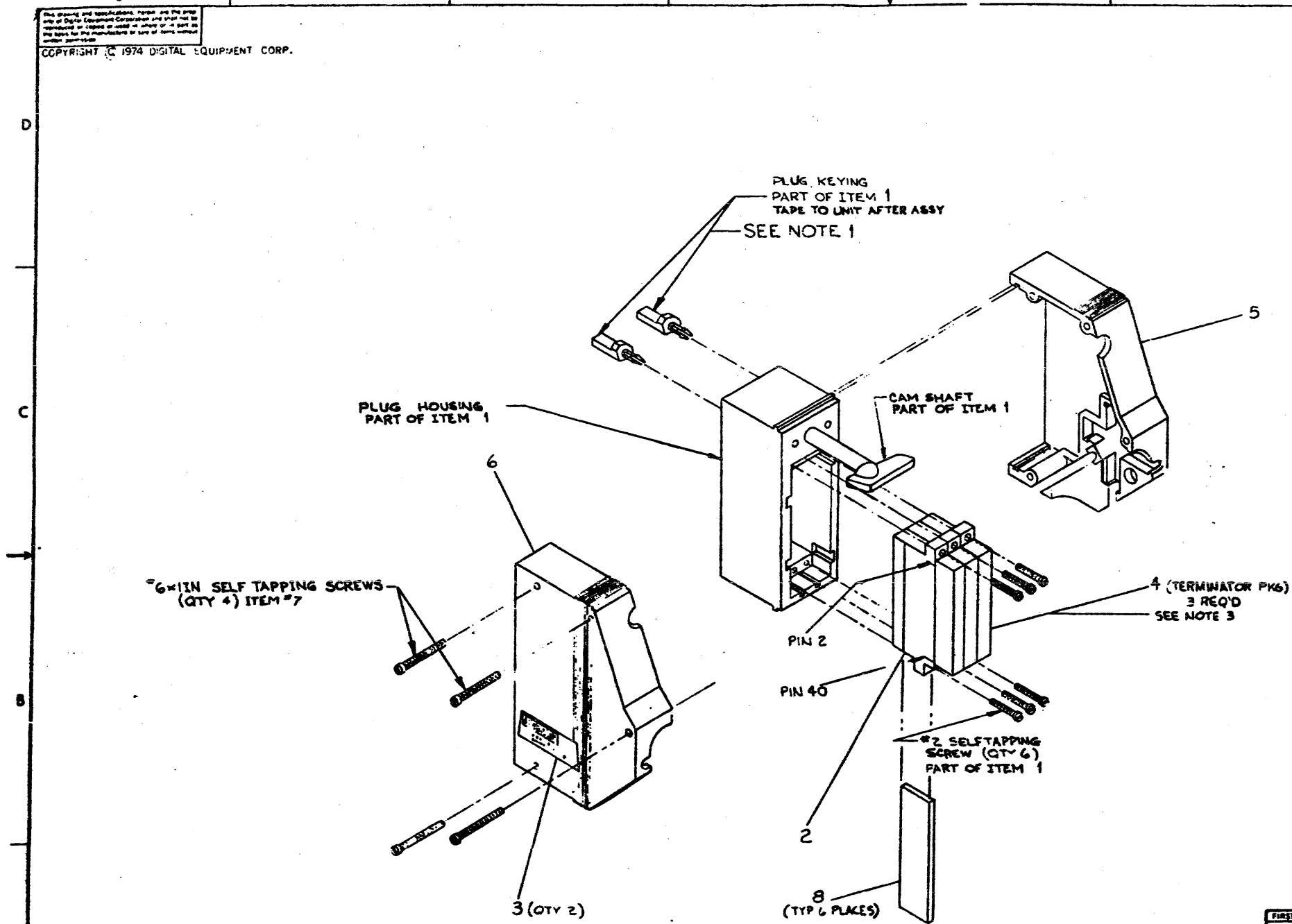
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PARTS LIST				QUANTITY/VARIATION					
MADE BY BOB WOLF		CHECKED <i>[Signature]</i>		SECTION 1		ETCH REV E		5411793-0-0		5411793-YA			
DATE 9/11/75		DATE 19 FEB 76		ISSUED SECT. 1									
ENG <i>[Signature]</i>		PROG <i>[Signature]</i>											
DATE 16 MAR 76		DATE 16 MAR 76											
ITEM NO	DWG NO. / PART NO.	DESCRIPTION											
67	9007203-00	FUSE CLIP		2									
68	1209340-00	CONN RATE-N LOCK 8 PIN SMT		1									J1
69	1209416-01	CONN CONTACT RATE-N LOCK SMT W/PC 8 TAB		8									
70	C-MD-1302759-0-C	CAP STRAPS		2									
71	9009000-00	EYELETS GE-4-B		6									
72	9006557-00	4-40 KEYPIT		1									
73	9007793-01	SCREW 6-32 x 9/16 PHL PAN HD		6									
74	9006027-01	SCREW 6-32 x 7/8 PHL PAN HD		1									
75	9006010-01	SCREW 4-40 x 7/8 PHL PAN HD		1									
76	9006447-01	SCREW 8-32 x 2 PHL PAN HD		1									
77	9006653-00	FLAT WASHER 06		5									
78	9007201-00	TRANSIPAD		1									
79	9008185-00	6-32 KEYPIT		7									
80	9107256-11	TUBING, THIN WALL, CLR		AR									
81	9008868-00	COMPOUND, THERMAL		AR									
82	1213071-02	WASHER, INSULATING T02		1									
83	1213071-07	WASHER, INSULATING		1									
84	9009769	WASHER, RECT. MFG.		1									
85	1214074-01	JUMPER MECHANICAL		1									
TITLE +5V REGULATOR POWER SUPPLY			ASSY NO. D-UA-5411793-0-0	SIZE CODE A PL	NUMBER 5411793-0-0	REV H	ECO NO 00003						
SHEET 4 OF 4			DIST										

SEC FORM DEC 16 (75) 1031-NB78  
994 110

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0-0-8E6600Z 07 2

- NOTES:**
1. PLUG KEYING, PLUG HOUSING, CAM SHAFT & MOUNTING HARDWARE ARE PART OF ITEM 1 (PLUG HOUSING & CAMSHAFT KIT).
  2. CUT JUMPER W/2 ON N870 TERMINATOR MODULES.
  3. PRIOR TO ASSY OF ITEM 4 TO ITEM 2, CUT OFF LEAD AT PIN 39. CUT FLUSH WITH TERMINATOR BODY.



6	COVER, CONTACT	1211591-11	5
4	SELF THREAD SCREW #21	1211591-13	7
1	STRAIN RELIEF HOUSING R. H.	1211591-13	5
1	STRAIN RELIEF HOUSING L. H.	1211591-14	5
3	MISC BUS TERMINATOR	1313242	4
2	DECAL	A DC 7112208-00	3
3	PLUG ASSY	1211591-07	2
1	PLUG HOUSING & CAM SHAFT	1211591-01	1

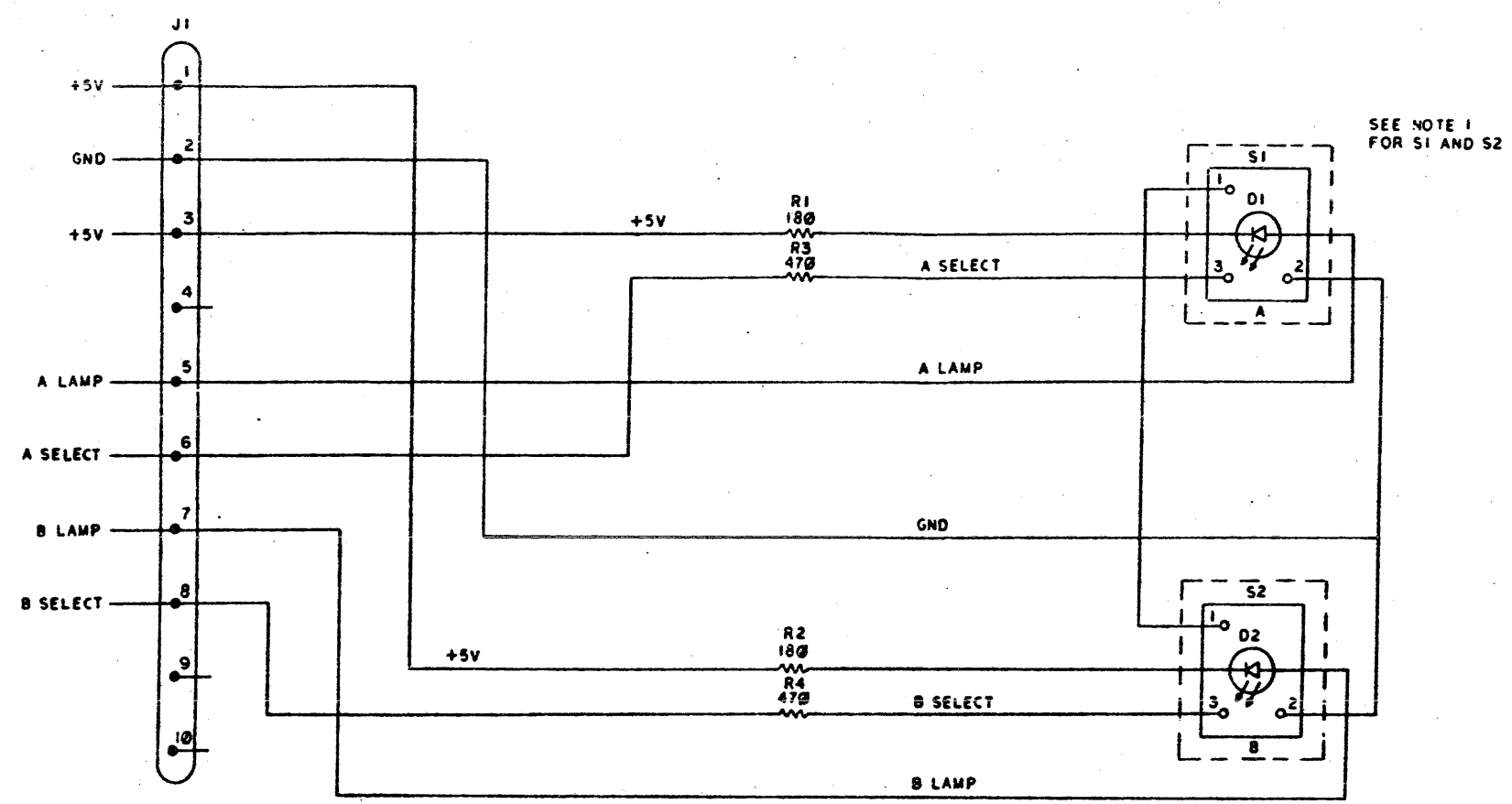
FIRST USED OR OPTION MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
2004									
PARTS LIST									
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES									
DECIMALS		ANGLES		DATE		DATE		DATE	
.0005		10°		1/27/74		1/27/74		1/27/74	
.001		10°		1/27/74		1/27/74		1/27/74	
.002		10°		1/27/74		1/27/74		1/27/74	
.005		10°		1/27/74		1/27/74		1/27/74	
.010		10°		1/27/74		1/27/74		1/27/74	
.020		10°		1/27/74		1/27/74		1/27/74	
.050		10°		1/27/74		1/27/74		1/27/74	
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CS 5413762-0-1 \* 2

NOTE:  
 1. S1 AND S2 SOLDER TO BOARD AT HIGHER ASSY.



SEE NOTE 1 FOR S1 AND S2

DRW. 0.9	DATE 1.15.79	REV. 1	PROJ. RM02/03	SIZE D	SCALE 1 OF 1
CHK'D	ENGR.	PROJ. ENGR.	PROB.	NEXT HIGHER ASSY.	
TITLE			RM02/03 DUAL PORT SWITCH		
DRAWING NO.			CS 5413762-0-1 *		
SHEET			1 OF 1		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-UA-5413762-0-0	UNIT ASSY		REF
2	2	D-CS-5413762-0-1	SCHEMATIC DIAGRAM		REF
3	3	D-MD-5013761-0-0	DRILL & ETCH DWG		REF
4	4	5013761-00	DRILL & ETCH BRD	1	
5	5	1212965-01	HEADER.100 10POS RT ANGLE	1	J1
6	6	1301322-00	180.0 .25 W 5.0 %	2	R1,R2
7	7	1300316-00	470.0 .25 W 5.0 %	2	R3,R4
8	8	D-EC-5013761-0-0	ETCH CUT DWG		REF

REVISION HISTORY		BASIC PART NO: 5413762		DRN:	BILL CASSIDY	DATE: 2-FEB-78	DIGITAL		
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE: 19-JUN-79	TITLE	PARTS LIST	
	INITIAL	*	SECTION.VARIATION INDEX				RH02/03 DUAL PORT SW		
			[A] 00						
			[B]						
			[C]	DES.ENG:	LEO CAPPABIANCA	DATE: 06-JUN-79			
			[D]						
			[E]					DOCUMENT NUMBER	
			[F]	RESP.ENG.:	L.CAPPABIANCA	DATE: 19-JUN-79			
			[H]				SIZE:CODE: NUMBER	REV	
			[J]						
			[K]	MFG.ENG.:	C.STEINWEG	DATE: 09-AUG-79	K PL	5413762-0-DBP	*
			[L]						
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #	
			[N]	D-UA-5413762-0-0		*B-DD-5413762-0	Z0213.PLS	5	

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1	1	D-AB-7017612-0-0	7017612-00	CABINET ASSY	1	1
2	2	D-AD-7018322-0-0	7018322-00	MBA CHASSIS ASSY (60 HZ)	1	-
3	3	D-AD-7018322-0-0	7018322-01	MBA CHASSIS ASSY (50 HZ)	-	1
4	4		M5923-00	MASS IUS TRANSCIVER, PORT B	2	2
5	5	E-IA-7419781-0-0	7419781-25	BC06S (REWORK) 25 FT.	2	2
6	6	D-IA-7009491-0-0	7009491-02	POWER SEQUENCE CABLE	1	1
7	7	D-IA-7016548-0-0	7016548-01	DUAL PORT HARNESS ASSEMBLY (66 I	1	1
8	8		9008341-00	CLIP,PVC HARNESS, DESKLASP,1'WID	4	4
9	9	C-AD-7017599-0-0	7017599-00	SWITCH PANEL ASSY (UPPER)	1	1
10	10	B-MD-7418607-0-0	7418607-00	CLAMP CABLE	2	2
11	11		7009938-00	*** THIS ITEM IS NOT USED ***	-	-
12	12		3617187-01	LABEL,"PORT SELECT (LEFT)" FOR	1	1
13	13	A-DC-7416197-0-0	7416197-02	SILK SCREEN	1	1
14	14		3613211-00	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1
15	15		9006418-01	SCREW,TAPPING,TYPE TT,PAN,PHIL,	1	1
16	16		9006036-01	SCREW,PAN,PHIL 8-32X 5/16 SS	1	1
17	17		9008020-01	SCREW,PAN,PHIL 6-32X 3/16 SS	2	2
18	18	D-IA-7412827-0-0	7412827-12	RK06 GROUND CABLE	1	1
19	19	C-IA-7017754-0-0	7017754-12	*** THIS ITEM IS NOT USED ***	-	-
20	20	C-IA-7017755-0-0	7017755-05	STRAP, GROUNDING (4' 0")	1	1
21	21	C-IA-7017756-0-0	7017756-06	*** THIS ITEM IS NOT USED ***	-	-
22	22		9006635-00	*** THIS ITEM IS NOT USED ***	-	-
23	23		9006565-00	*** THIS ITEM IS NOT USED ***	-	-
24	24		1214434-02	*** THIS ITEM IS NOT USED ***	-	-
25	25		1209456-01	*** THIS ITEM IS NOT USED ***	-	-
26	26		1209350-03	*** THIS ITEM IS NOT USED ***	-	-
27	27		3613209-00	LABEL,ELECTRICAL DATA	2	2
28	28		7017610-0J	*** THIS ITEM IS NOT USED ***	-	-
29	29		9006073-03	*** THIS ITEM IS NOT USED ***	-	-
30	30		9006568-00	NUT,KEP ,5/16-18 X1/2 AF	1	1

REVISION HISTORY			BASIC PART NO: 7017748			D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	M. ENGLE	DATE: 12-MAY-80	TITLE
ME	7017748-CX001	A	SECTION. VARIATION INDEX	CHK'D:	B. NICHOLS	DATE: 12-MAY-80	PARTS LIST
WH	RM05-CX05A	B	[A] 00,01	DES.ENG.:	A. CLARK	DATE: 12-MAY-80	CABINET & MBA ASSY DUAL PORT
			[B]	RESP.ENG.:	B. MONTERO	DATE: 12-MAY-80	DOCUMENT NUMBER
			[C]	MFG.ENG.:	C. STEINWEG	DATE: 12-MAY-80	SIZE CODE NUMBER REV
			[D]	ASSEMBLY NUMBER:	D-AB-7017748-0-0	TOP DOCUMENT NUMBER:	B-DD-RM05-0
			[E]			FILE NAME:	Z1200B.PLS
			[F]			EDIT #:	7

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PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
31	31		9006638-00	WASHER, LOCK-INT, .6000D X .326ID	3	3
32	32	A-DC-7416197-0-0	7416197-01	DECAL	1	1
33	33		3613211-01	DECAL, CLEAR PREPRINTED CSA 1-1/4	1	1

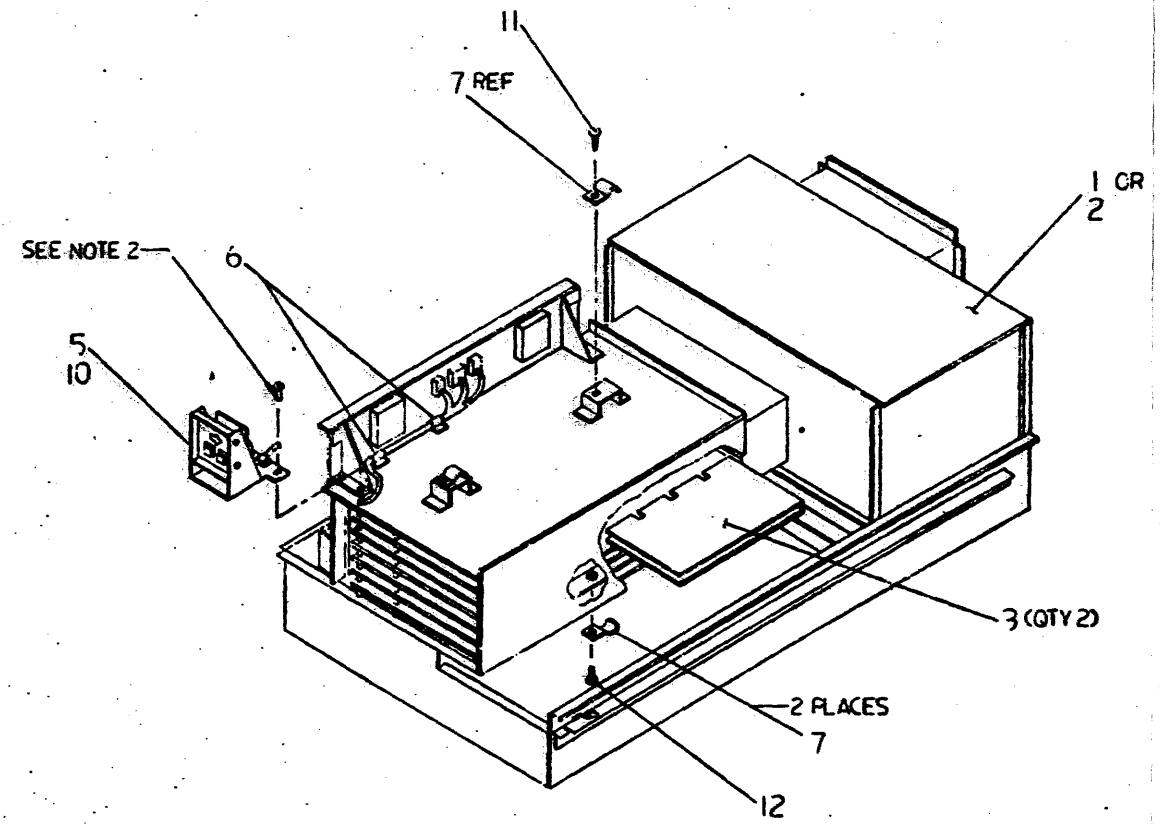
D	I	G	I	T	A	L	TITLE	CABINET & M&A ASSY DUAL PORT	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	FL	7017748-0-DBP	B

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DAD 7017747-0-0

LEGEND	
NUMBER	VARIATION
7017747-00	DUAL PORT, 120V 60HZ
7017747-01	DUAL PORT, 240V 50HZ

- NOTES:
- FOR CABLING AND GROUNDING CONFIGURATION SEE D-UA-RM05-0-0.
  - REMOVE EXISTING SCREWS FROM CARD CAGE BRACKET AND REPLACE, MOUNTING DUAL PORT SWITCH ASSEMBLY (ITEM 5) WHEN REQUIRED.
  - SHIP THE FOLLOWING ITEMS UNASSEMBLED WITH UNIT:
- | ITEM NO. | QTY | PART NO.   | DESCRIPTION               |
|----------|-----|------------|---------------------------|
| 4        | 2   | 7419781-04 | BC06S REWORK              |
| 5        | 1   | 7017605-00 | DUAL PORT SWITCH ASSY.    |
| 9        | 1   | 7009491-00 | POWER SEQUENCE CABLE      |
| 10       | 1   | 7617187-00 | LABEL, PORT SELECT, RIGHT |
| 13       | 1   | 7017755-05 | GROUND STRAP              |
| 21       | 2   | 7613209-02 | LABEL, ELECTRICAL DATA    |



CAUTION: OFF SHEET PARTS LIST EXISTS.  
 SEE 4-PL-7017747-0-0&P (Z1199).

DATE	BY	DESCRIPTION
1/14/80	M. ENGLE	REVISED DRAWING
1/14/80	M. ENGLE	REVISED DRAWING

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY PER DEC STD T5A			
FINISH	APPLICABLE DIMENSIONS	DIMENSIONAL TOLERANCES	
ASSEMBLY	ASSEMBLY	0.000	0.000
SURFACE QUALITY	ASSEMBLY	0.000	0.000
QUALITY & VARIATION	ASSEMBLY	0.000	0.000
THIRD ANGLE PROJECTION	3rd Angle	TITLE	
DO NOT SCALE DRAWING	3rd Angle	MBA ASSEMBLY, DUAL PORT	
REMOVE BURRS AND BREAK SHARP CORNERS	3rd Angle	DOCUMENT NUMBER	
MATERIAL	3rd Angle	DUA-RM05-0-0	
SEE PARTS LIST	3rd Angle	DAD 7017747-0-0 5	

DAD 7017747-0-0 5

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY	PER VARIATION
					00	01
1	1	D-AD-7018322-0-0	7018322-00	MBA CHASSIS ASSY (60 HZ)	1	-
2	2	L-AD-7018322-0-0	7018322-01	MBA CHASSIS ASSY (50 HZ)	-	1
3	3		M5923-00	MASS BUS TRANSCEIVER, PORT B	2	2
4	4	C-MD-7419781-0-0	7419781-04	BC06S (REWORK) 4 FT.	2	2
5	5	C-IA-7017605-0-0	7017605-00	DUEL, PORT SWITCH ASSY	1	1
6	6		9008341-00	CLIP,FVC HARNESS, DESKLASP,1'WID	2	2
7	7	B-MD-7418607-0-0	7418607-00	CLAMP CABLE	2	2
8	8		7009938-00	*** THIS ITEM IS NOT USED ***	-	-
9	9	D-IA-7009491-0-0	7009491-00	CABLE	1	1
10	10		3617187-00	LABEL,"PORT SELECT (RIGHT)" FOR	1	1
11	11		9006418-01	SCREW,TAPPING,TYPE TT,PAN ,PHIL,	1	1
12	12		9006036-01	SCREW,PAN,PHIL 8-32X 5/16 SS	1	1
13	13	C-IA-7017755-0-0	7017755-05	STRAP, GROUNDING (4' 0")	1	1
14	14	C-IA-7017754-0-0	7017754-12	*** THIS ITEM IS NOT USED ***	-	-
15	15		9006565-00	*** THIS ITEM IS NOT USED ***	-	-
16	16		9006635-00	*** THIS ITEM IS NOT USED ***	-	-
17	17		1214434-02	*** THIS ITEM IS NOT USED ***	-	-
18	18		1209456-01	*** THIS ITEM IS NOT USED ***	-	-
19	19		1209350-03	*** THIS ITEM IS NOT USED ***	-	-
20	20	A-PI-3700589-0-0	3700589-00	PKG ASSY RM05 MASS BUS	REF	REF
21	21		3613209-02	LABEL,ELECTRICAL DATA	2	2

22 NOTE: -  
 23 NOTE: -  
 24 NOTE: -  
 25 NOTE: -

LEGEND  
 PART NUMBER VARIATION  
 7017747-00 120V 60HZ  
 7017747-01 240V 50HZ

REVISION HISTORY		BASIC PART NO: 7017747		DRN:	M. ENGLE	DATE: 12-MAY-80	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	B. NICHOLS	DATE: 12-MAY-80	TITLE	PARTS LIST
	INITIAL	*	SECTION, VARIATION INDEX					
GN	7017747-CX001	A	[A] 00,01				MBA ASSY,DUAL PORT	
WH	RM05-CX05A	B	[B]	DES.ENG.:	A. CLARK	DATE: 12-MAY-80		
			[C]	RESP.ENG.:	B. MONTERO	DATE: 12-MAY-80	DOCUMENT NUMBER	
			[D]				SIZE CODE NUMBER	REV
			[E]	MFG.ENG.:	C. STEINWEG	DATE: 12-MAY-80	K PL 7017747-0-DBP	B
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
				D-AD-7017747-0-0		#B-DD-RM05-0	Z1199B.PLS	14

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