

8

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2

SIZE CODE NUMBER
D TC RH20-0-1

1

FIELD MAINTENANCE PRINT SET TABLE OF CONTENTS

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

RH20

RH20
FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION

PRINT SET ORDER NO.
MP00056

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REVISIONS		
CHK	CHANGE NO.	REV
✓	004	D

digital	DRN	DATE	ENG	DATE	TITLE
	CHK'D.	104-MAR-81	1/11/81	104-MAR-81	MASSBUS INTERFACE (RH20)
DSK:RH20TC.T2P(4,37)		104-MAR-81 02:18	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: KL10		NONE		D TC	RH20-0-1

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1

MR

REV. D
NUMBER RH20-0-1
SIZE CODE D TC

DOCUMENT NUMBER REV DESCRIPTION

B-TC-RH20-0-1 D RH20 FIELD MAINTENANCE PRINT SET (TC)
D-MU-KL10-0-RHDT * MODULE UTILIZATION RH20-DTE20

RH20 MODULE (CS)

D-DD-M8555-0 E MASSBUS CONTROL EBUS INTERFACE SH 1
D-UA-M8555-0-0 D1 MASSBUS CONTROL EBUS INTERFACE SH 2
D-CS-M8555-0-EBI1 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI2 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI3 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI4 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI5 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI6 D1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI7 B1 MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI8 B1 POWER, GND. CAPS

D-DD-M8555-0 E MASSBUS CONTROL EBUS INTERFACE SH 2
D-UA-M8555-0-0 E MASSBUS CONTROL EBUS INTERFACE SH 1
D-CS-M8555-0-EBI1 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI2 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI3 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI4 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI5 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI6 E MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI7 C MASSBUS CONTROL EBUS INTERFACE
D-CS-M8555-0-EBI8 C POWER, GND. CAPS

D-DD-M8556-0 H MASSBUS CONTROL CBUS INTERFACE SH 1
D-UA-M8556-0-0 E1 MASSBUS CONTROL CBUS INTERFACE SH 2
D-CS-M8556-0-DP1 A1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP2 A1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP3 A1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP4 C1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP5 A1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP6 *1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP7 A1 MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP8 A1 POWER, GND. CAPS

D-DD-M8556-0 H MASSBUS CONTROL CBUS INTERFACE SH 2
D-UA-M8556-0-0 H MASSBUS CONTROL CBUS INTERFACE SH 1
D-CS-M8556-0-DP1 B MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP2 B MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP3 B MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP4 E MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP5 C MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP6 A MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP7 B MASSBUS CONTROL CBUS INTERFACE
D-CS-M8556-0-DP8 C POWER, GND. CAPS

DOCUMENT NUMBER REV DESCRIPTION

RH20 MODULE (C. S.) CONTINUED

D-DD-M8557-0 H MASSBUS CONTROL MBUS INTERFACE SH 1
D-UA-M8557-0-0 D2 MASSBUS CONTROL MBUS INTERFACE SH 2
D-CS-M8557-0-MSS1 B1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS2 C1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS3 B2 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS4 B1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS5 B1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS6 A1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS7 A1 MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS8 A1 POWER, GND. CAPS

D-DD-M8557-0 H MASSBUS CONTROL MBUS INTERFACE SH 2
D-UA-M8557-0-0 F MASSBUS CONTROL MBUS INTERFACE SH 1
D-CS-M8557-0-MSS1 E MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS2 E MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS3 C MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS4 C MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS5 C MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS6 B MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS7 B MASSBUS CONTROL MBUS INTERFACE
D-CS-M8557-0-MSS8 B POWER, GND. CAPS

RH20 OPTION/ASSY.

D-IC-KL10-0-IOC1 * EBUS CABLE I/O TO CPU
D-IC-KL10-0-IOC2 * EBUS & CBUS CABLES I/O TO CPU
C-UA-BC06S-0-0 E MASSBUS CABLE
D-AD-7009938-0-0 C TERMINATOR PACK ASSY
A-SP-RH20-0-SP * RH20 RTP04 ACCEPTANCE PROCEDURE
D-FD-RH20-0-INST * RH20 INSTRUCTION FORMAT
D-FD-RH20-0-BD * RH20 BLOCK DIAGRAM
A-PL-RH20-0-0 * MASSBUS INTERFACE
A-PL-RH20-0-ACL * RH20 ACCESSORY SHIP LIST
D-CS-5411070-0-1 A RH20 MASSBUS TRANSITION

NOTE: A REVISION DESIGNATED AS "*" REPRESENTS THE INITIAL RELEASE REVISION OF A DOCUMENT IN THE CASE WHERE THE INITIAL RELEASE REVISION WAS "-", "*" OR WAS LEFT BLANK.

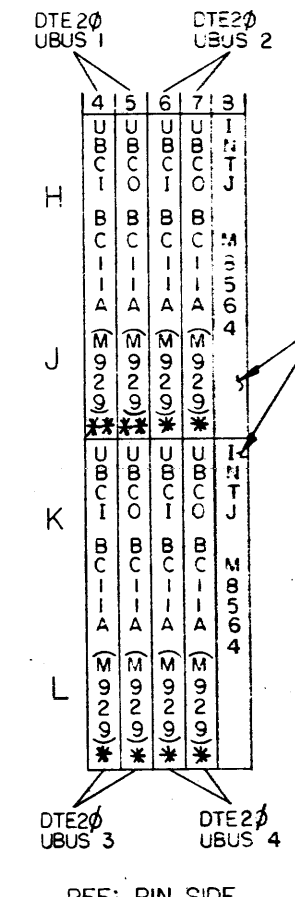
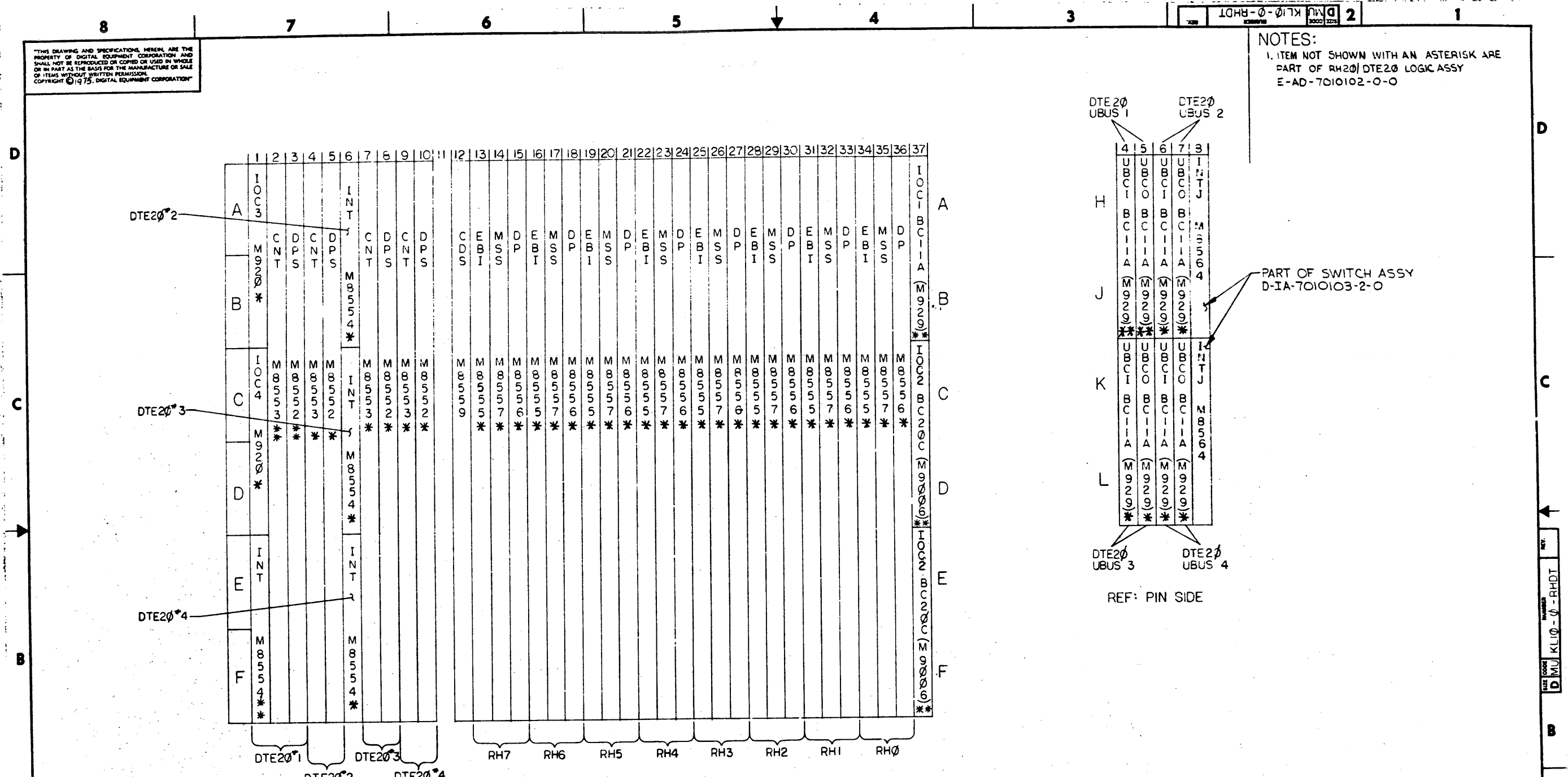
Table with columns: REVISIONS, CHK, CHANGE NO., REV. Includes a small table for tracking changes.

digital logo and header information including date (16-MAR-81), title (MASSBUS INTERFACE (RH20)), and sheet number (2 OF 2).

NR

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NOTES:
 1. ITEM NOT SHOWN WITH AN ASTERISK ARE PART OF RH20/DTE20 LOGIC ASSY
 E-AD-7010102-0-0



REF: PIN SIDE
 * INSTALLED AT SYSTEMS LEVEL
 ** INSTALLED AT KLI0 UNIT ASSY LEVEL D-UA-KLI0-0-0

REV.	
CHG.	
REV.	

DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES M 30°	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
		OVER 0 TO 1.0	OVER 1.0 TO 40.0
SURFACE QUALITY IN	MICROINCHES	1.004	1.004
		1.012	1.003
QUANTITY & VARIATION	FIRST USED ON		
THIRD ANGLE PROJECTION	DRM. m. 3-11-75	KLI0 Digital	
REMOVE BURS AND BREAK SHARP CORNERS	CHK'G. 3-20-75	TITLE	
DO NOT SCALE DWG.	ENG. 3-25-75	MODULE UTILIZATION	
MATERIAL	PROD. 3-21-75	RH20-DTE20	
FINISH	NEXT HIGHER ASSY.	SIZE CODE	NUMBER
	E-UA-KLI0-0-0	D MU	KLI0-0-RHDT
	SCALE	SHEET	REV.
		OF 1	

8 7 6 5 4 3 2 3 0-5555-0 CC D 2000 2215 1

DRAWING NUMBER PAGE PART NO. DESCRIPTION REVISIONS

FILE: ORIGINAL LAYOUT

ECO NUMBER - 1 2 2A 3 4 6

MODULE REVISION A B C C C D D

D-UA-M8555-0-0	5		MASSBUS CONTROL EBUS INTERFACE	-	A	B	B	C	D	D1
D-CS-M8555-0-EBI1	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI2	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI3	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI4	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI5	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI6	1		MASSBUS CONTROL EBUS INTERFACE	-	A	B	B	C	D	D1
D-CS-M8555-0-EBI7	1		MASSBUS CONTROL EBUS INTERFACE	-	-	A	A	A	B	B1
D-CS-M8555-0-EBI8	1		POWER, GND. CAPS.	-	-	A	A	A	B	B1
D-AH-M8555-0-5	4		DRILL & ETCH DRAWING	A	A	A	A	A	A	A1
K-CO-M8555-0-4	1	5010512	ETCH CIRCUIT BOARD	B	B	B	B	B	B	B
POO-M8555-00			CALDEC DATA BASE	B	B	B	B	B	B	B
			PROCESS SHEET (REF ONLY)							

NOTES: ECO #5 CANCELED

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

digital DSK: B555DD.T2P(4,616) 12-OCT-78 16:47

DATE 12-OCT-78 ENG V.KU DATE 30 OCT 74 TITLE: MASS CONTROL EBUS INTERFACE

CHK'D BY PEBLANC DATE 27 SEP 74 BOARD LOCATION: N/A SHEET 1 OF 2

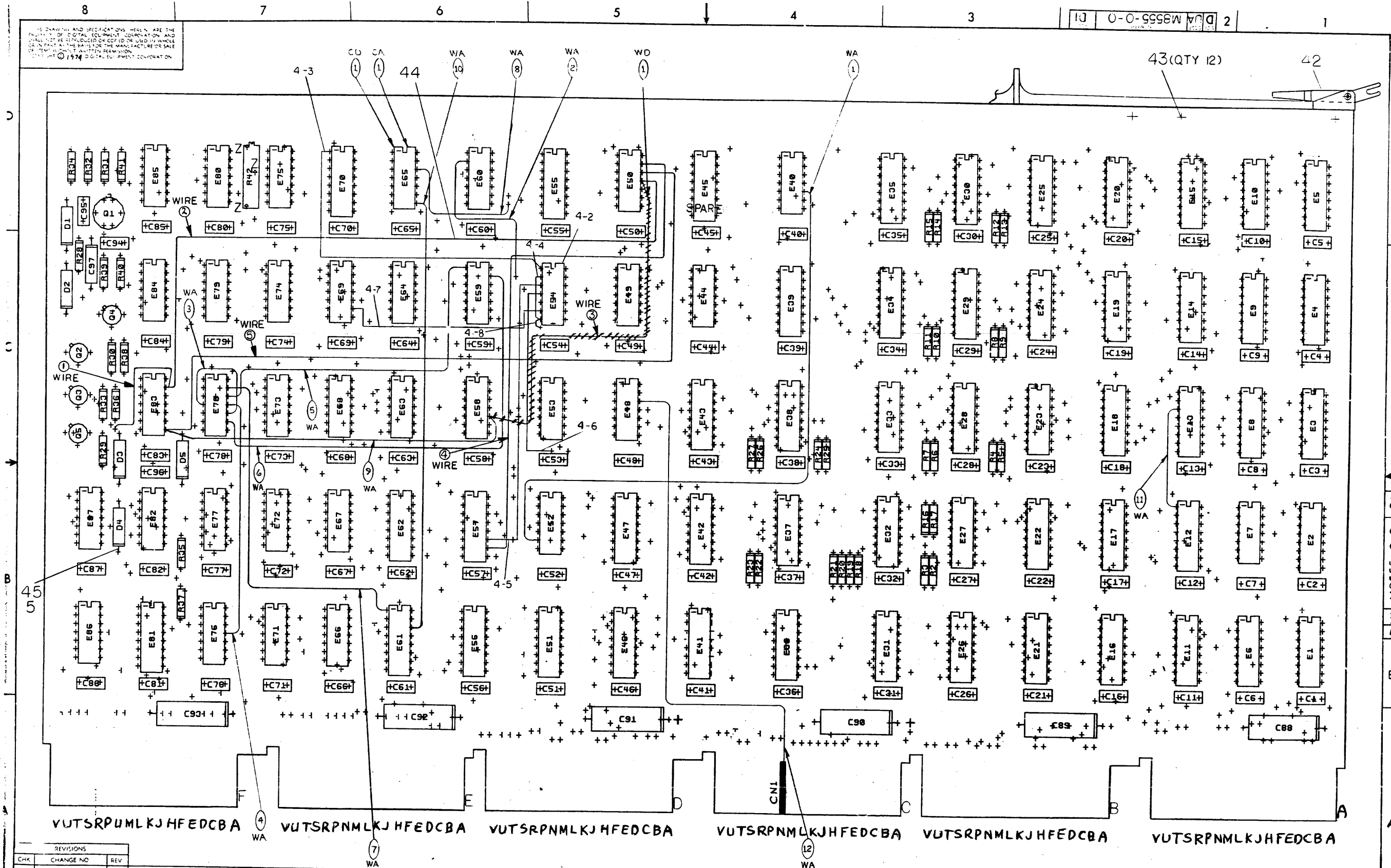
FIRST USED ON OPTION/MODEL: RH20 NEXT HIGHER ASSEMBLY: NONE

SIZE CODE D DD NUMBER M8555-0 REV. E

8 7 6 5 4 3 2 1

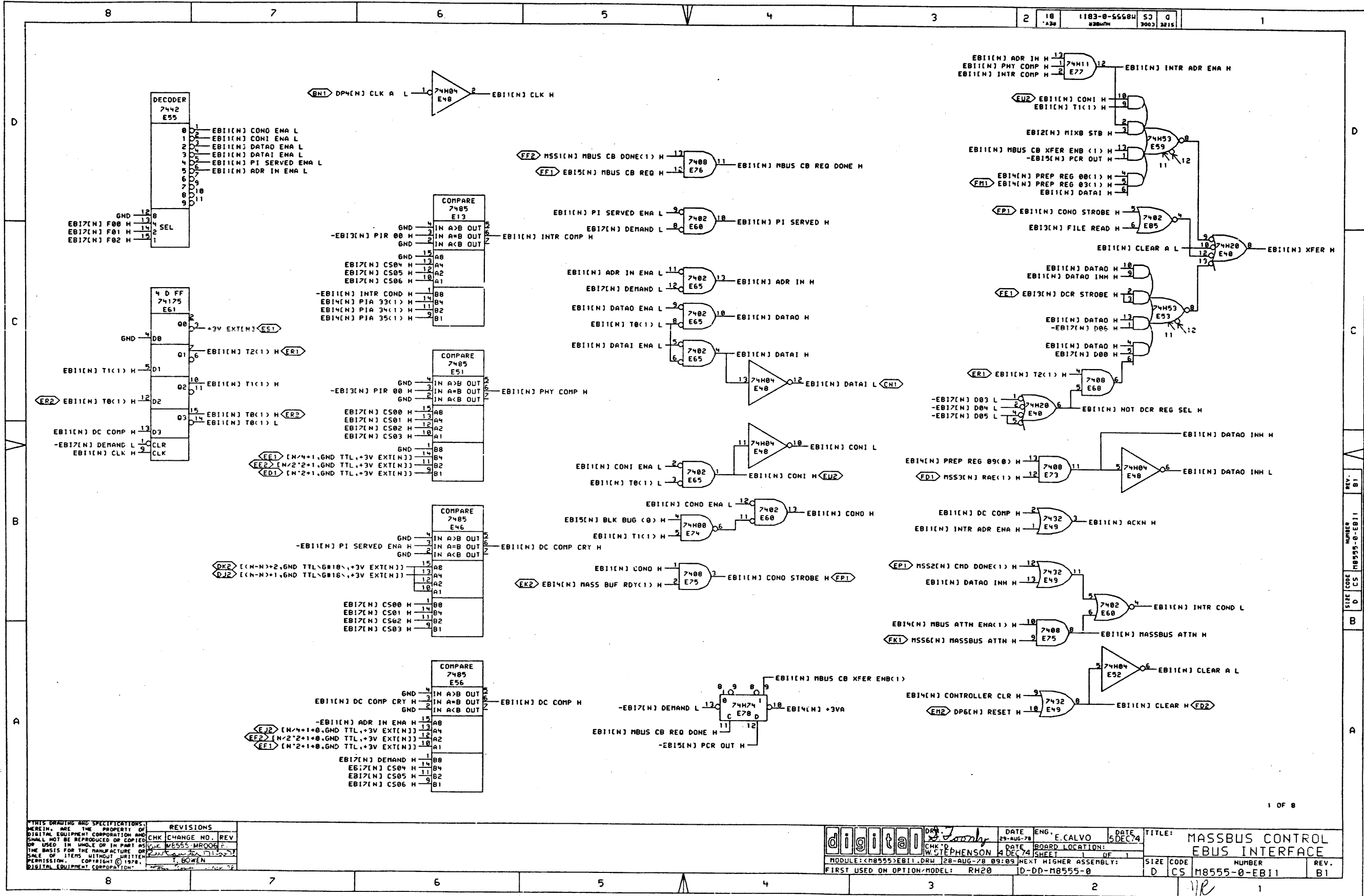
REV. E
NUMBER M8555-0
SIZE CODE D DD

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REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASSBUS CONTROL EBUS INTERFACE	SIZE CODE	DUA	NUMBER	M8555-0-0	REV.	DI
SCALE	NONE	SHEET	2	OF	5	DIST.	



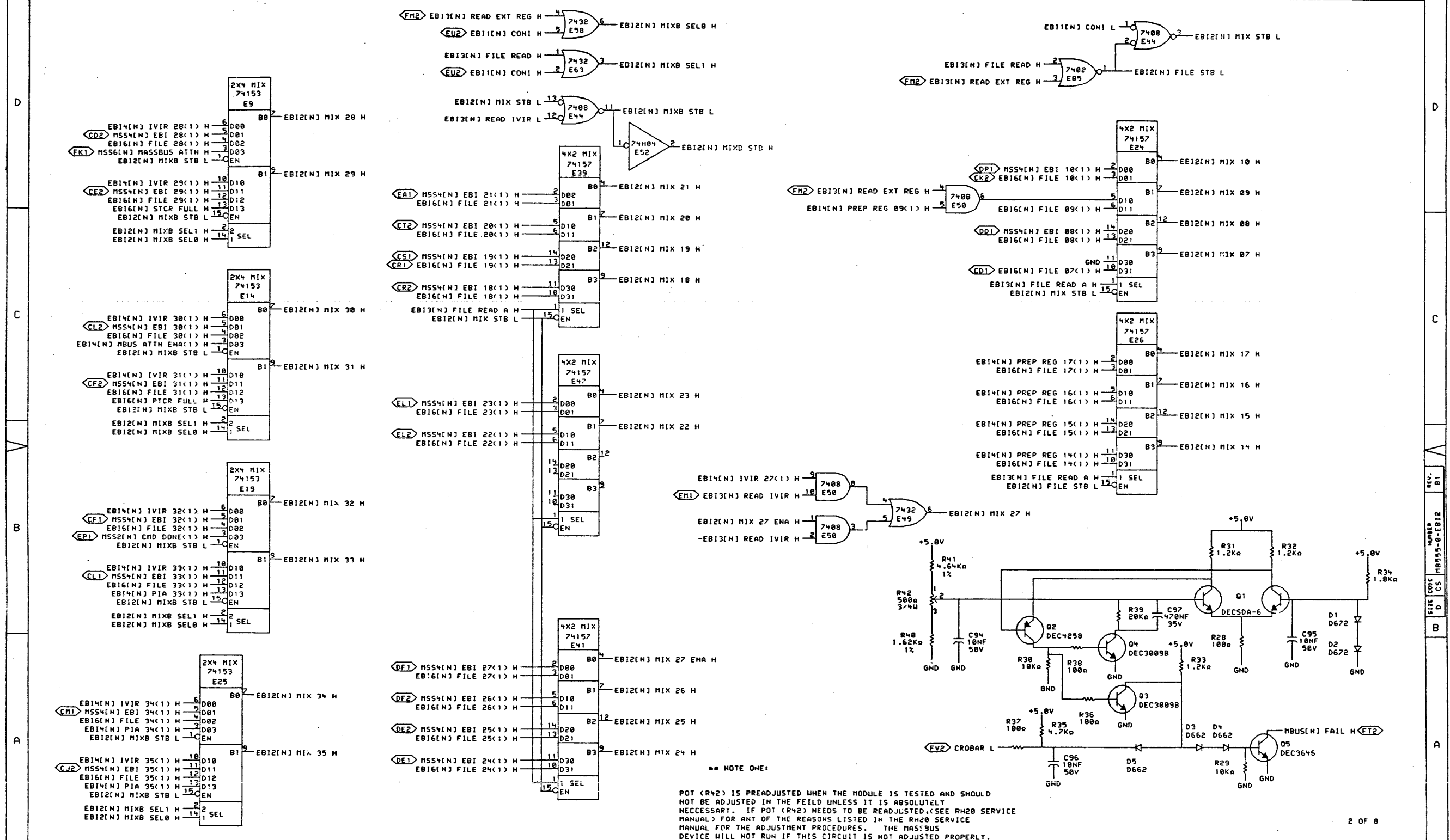
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REV.	DATE	DESCRIPTION
1		
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REV.	DATE	DESCRIPTION
B1		
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B99		
B100		

DATE	25-AUG-78	ENG.	E. CALVO	DATE	5 DEC 74	TITLE	MASSBUS CONTROL EBUS INTERFACE
CHECK'D	W. STEPHENSON	DATE	4 DEC 74	BOARD LOCATION			
MODULE	M8555-EB11.DRW	DATE	28-AUG-78 09:09	NEXT HIGHER ASSEMBLY			
FIRST USED ON OPTION/MODEL	RH20		10-DD-M8555-0				
SIZE	D	CODE	CS	NUMBER	M8555-0-EB11	REV.	B1

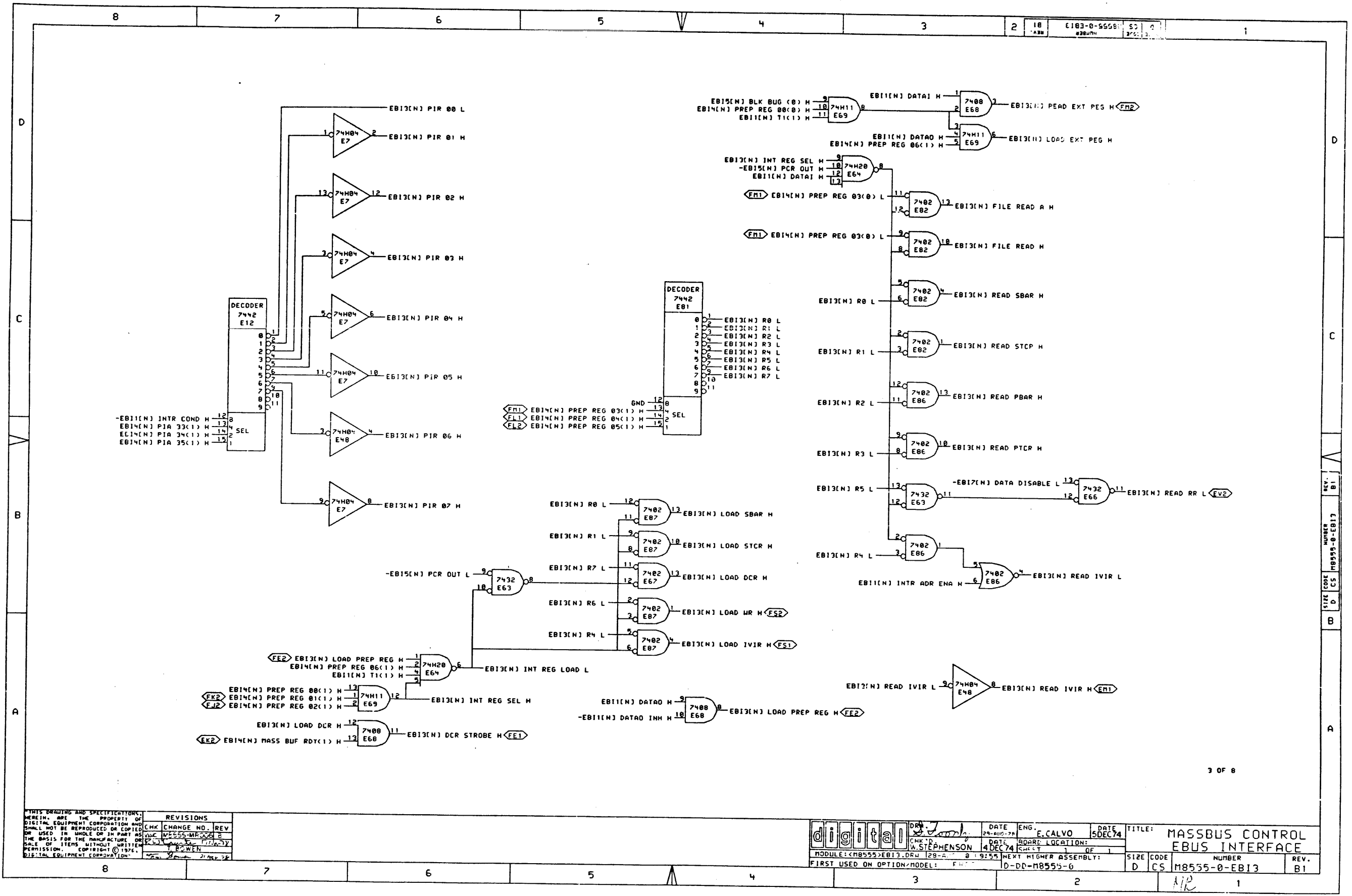
REV. B1
 NUMBER M8555-0-EB11
 CS
 D
 B
 A



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REV.	CHG.	NO.	REV.
	1	1	1

digital	DATE: 29-AUG-78	ENG: E.CALVO	DATE: 12-DEC-74	TITLE: MASSBUS CONTROL EBUS INTERFACE
DRY: J. J. J.	DATE: 4 DEC 74	BOARD LOCATION: 1 OF 1	SIZE: D	CODE: CS
CHK'D: W. STEPHENSON	DATE: 12-DEC-74	SHEET: 1 OF 1	NUMBER: M8555-0-EBI2	REV.: B1
MODULE: M8555-EBI2, DRW 128-AUG-78, 89:53	NEXT HIGHER ASSEMBLY: D-DD-M8555-0			
FIRST USED ON OPTION/MODEL: RH20				

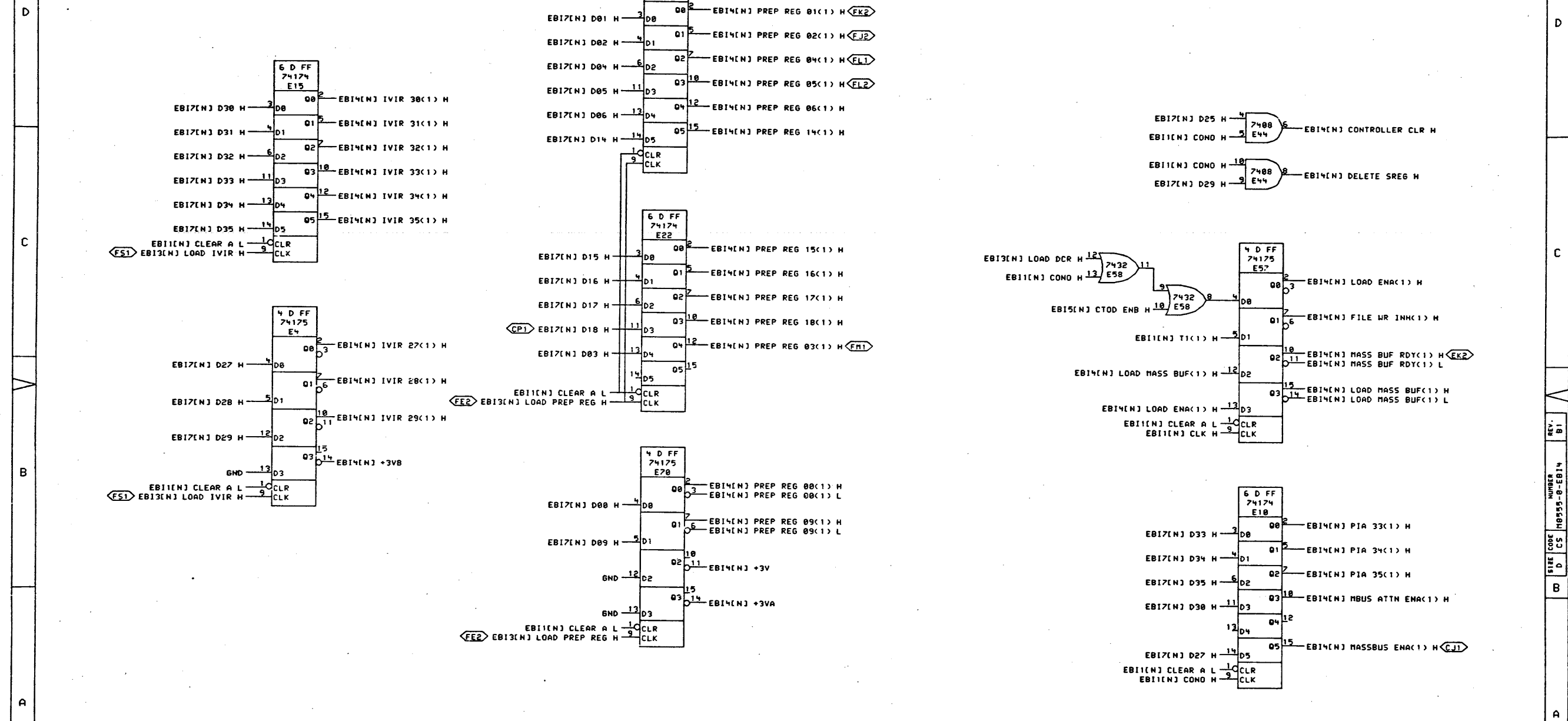


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REVISIONS		
CHK	CHANGE NO.	REV
WJK	1	ISSUED FOR REVISE
WJK	2	REVISED

digital	DATE: 29-AUG-74	ENG: E. CALVO	DATE: 5 DEC 74	TITLE: MASSBUS CONTROL EBUS INTERFACE
CHK: W. STEPHENSON	DATE: 4 DEC 74	DRG. LOCATION: SELECT 1	OF 1	
MODULE: M8555-EB13.DRW	128-A	8:55	NEXT HIGHER ASSEMBLY:	SIZE CODE: D CS
FIRST USED ON OPTION/MODEL: F			10-DD-M8555-0	NUMBER: M8555-0-EB13
				REV. B1

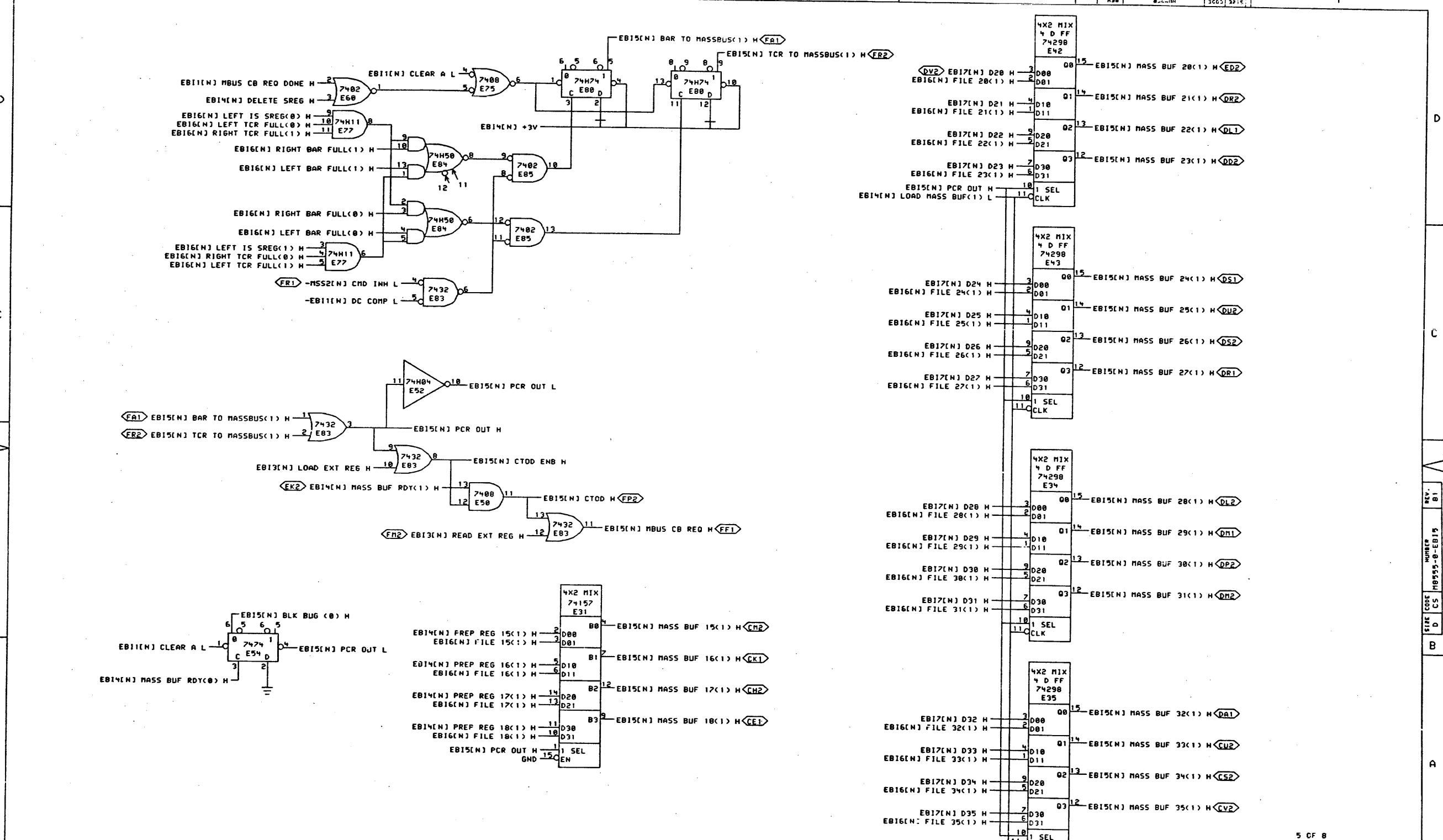
REV. B1
NUMBER M8555-0-EB13
SIZE CODE D CS



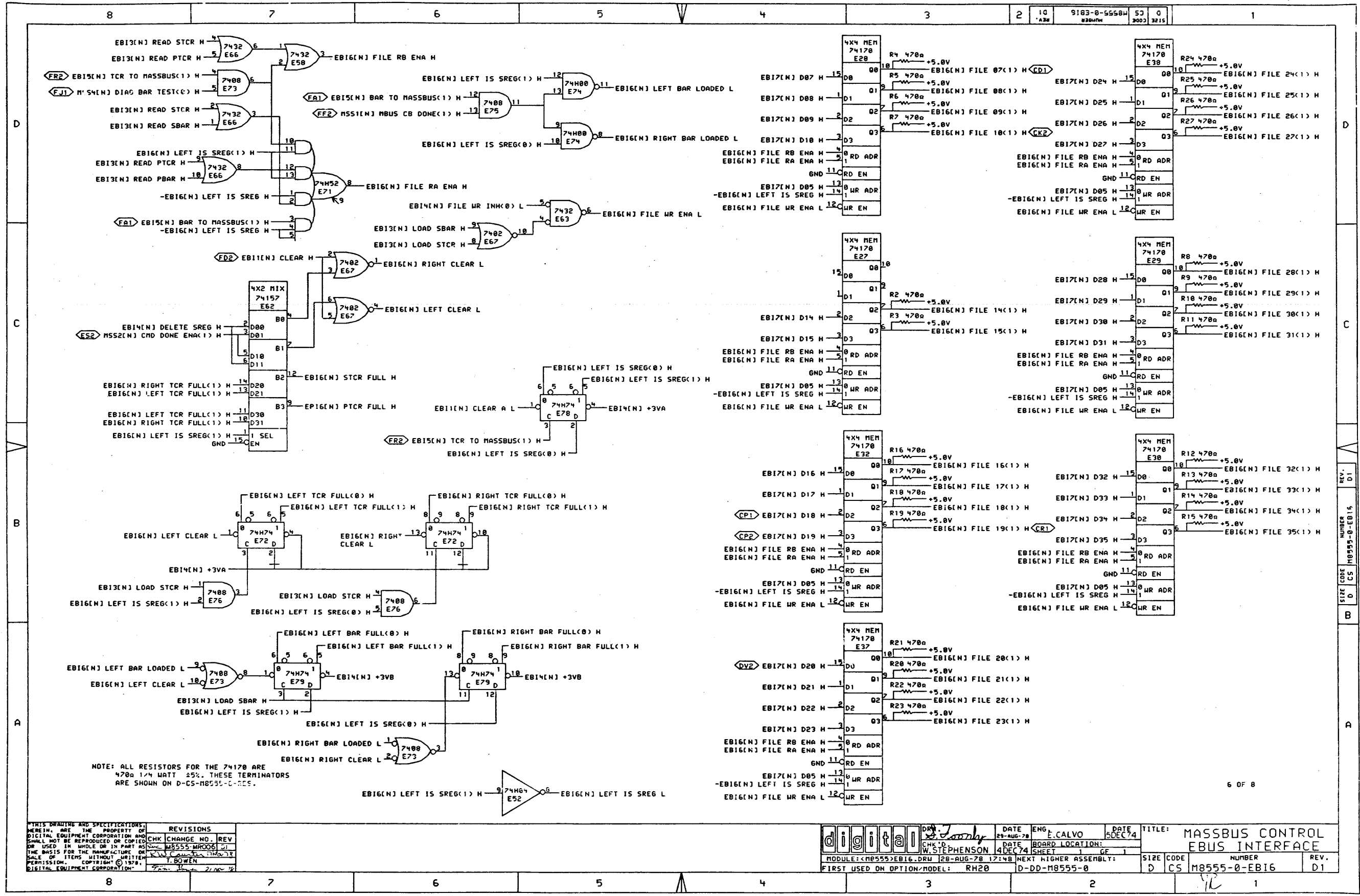
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REVISIONS		
CHK	CHANGE NO.	REV
W. STEPHENSON	1	1
T. BOWEN	2	1

digital	DATE	ENG.	DATE	TITLE:
	29-AUG-78	E. CALVO	5 DEC 74	MASSBUS CONTROL EBUS INTERFACE
CHK'D	DATE	BOARD LOCATION:	SHEET	OF
W. STEPHENSON	4 DEC 74	1F	1	1
MODULE:	DATE	SIZE CODE	NUMBER	REV.
M8555-0-E14.DRW	28-AUG-78 09:58	D CS	M8555-0-E14	B1
FIRST USED ON OPTION/MODEL:	NEXT HIGHER ASSEMBLY:			
RH20	D-DD-M8555-0			



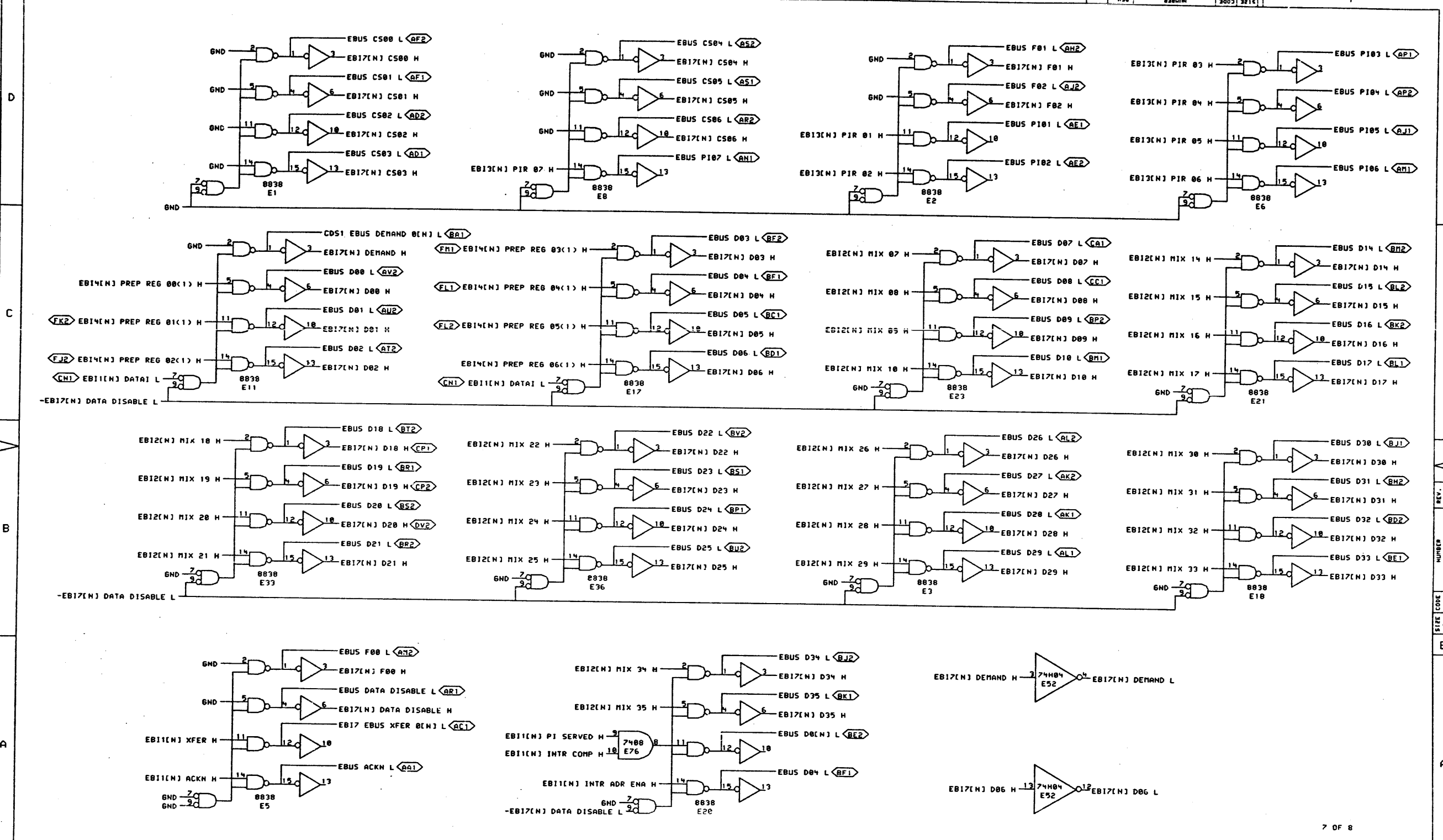
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---	--	---	--	---	--	---	--



NOTE: ALL RESISTORS FOR THE 74170 ARE 470Ω 1/4 WATT 25%. THESE TERMINATORS ARE SHOWN ON D-CS-M8555-C-RES.

REVISIONS		
CHK	CHANGE NO.	REV
	M8555-MR003	1
		2
		3
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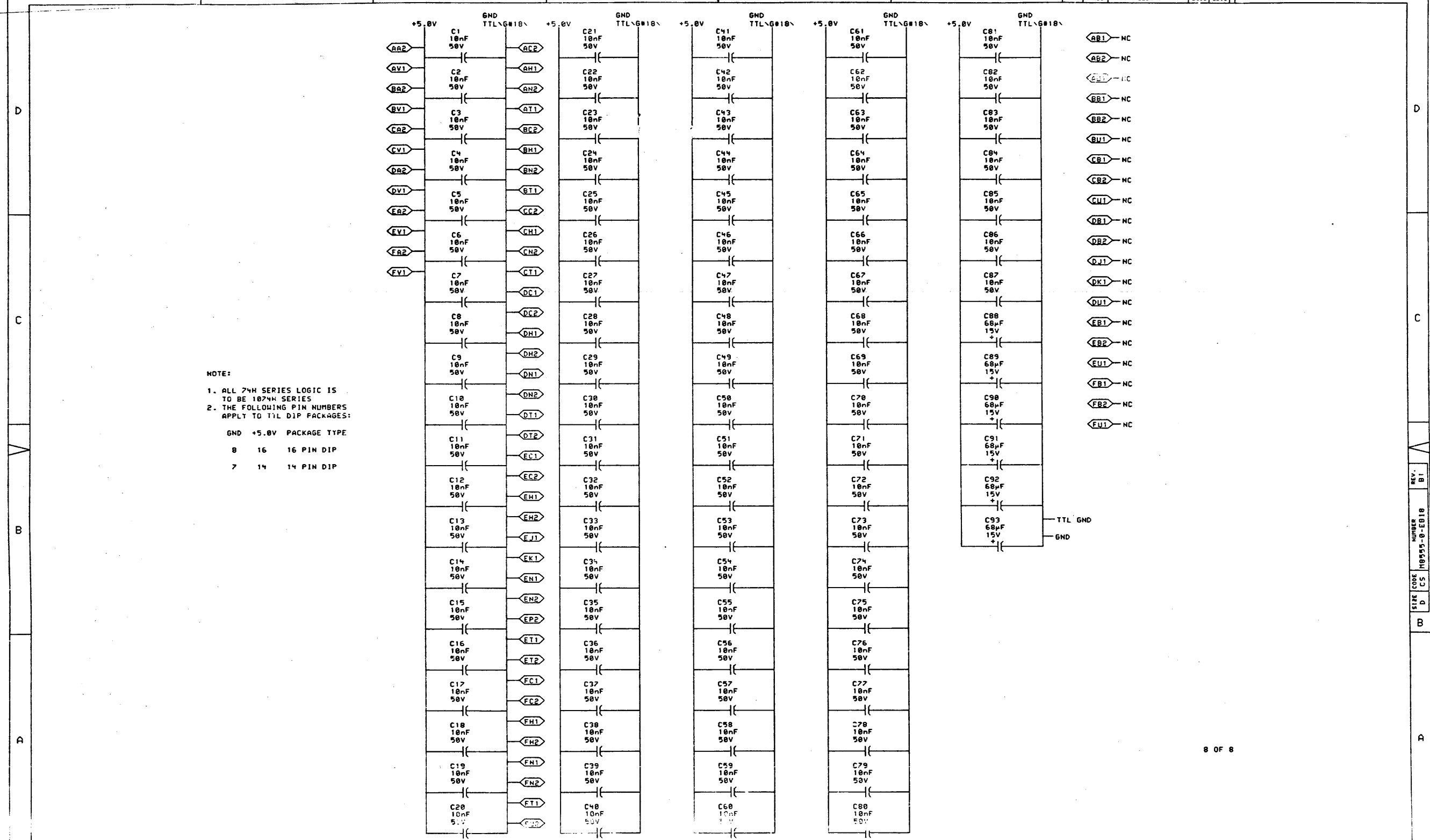
	DATE	ENG	DATE	TITLE
	29-AUG-78	E. CALVO	30-DEC-74	MASSBUS CONTROL EBUS INTERFACE
W. STEPHENSON DATE: 4DEC74 SHEET: 1 OF 1	BOARD LOCATION:	SIZE CODE: D CS	NUMBER: M8555-0-EB16	REV.: D1
MODULE: <M8555>EB16.DRW FIRST USED ON OPTION/MODEL: RH20	DATE: 28-AUG-78 17:48 NEXT HIGHER ASSEMBLY: D-DD-M8555-0			



REV	CHG	NO.	DATE	BY
1				

REV	CHG	NO.	DATE	BY
1				

	DATE	28-AUG-78	ENG.	E. CALVO	DATE	5 DEC 74	TITLE:	MASSBUS CONTROL
	CHK'D.	W. STEPHENSON	DATE	4 DEC 74	BOARD LOCATION:	1 DE 1	SHEET	EBUS INTERFACE
MODULE:		M8555-EB17.DRW		28-AUG-78 14:39	NEXT HIGHER ASSEMBLY:			
FIRST USED ON OPTION/MODEL:		RH20		D-DD-M8555-0		SIZE	CODE	NUMBER
						D	CS	M8555-0-EB17
								REV.
								B1



NOTE:
 1. ALL 74H SERIES LOGIC IS TO BE 1074H SERIES
 2. THE FOLLOWING PIN NUMBERS APPLY TO TTL DIP PACKAGES:

GND	+5.0V	PACKAGE TYPE
8	16	16 PIN DIP
7	14	14 PIN DIP

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REVISIONS		
CHK	CHANGE NO.	REV
W.S. STEPHENSON	4	B
T. BOWEN		

digital	DRN	DATE	ENG.	DATE	TITLE:
	W. STEPHENSON	29-AUG-78	E. CALVO	5DEC74	POWER, GND. CAPS. EBUS INTERFACE
MODULE: <M8555>EB18.DRW		DATE	BOARD LOCATION:	SIZE CODE NUMBER REV.	
FIRST USED ON OPTION MODEL: RH20		128-AUG-78 14147	D-DD-M8555-0	D CS M8555-0-EB18 B1	

REV. B1
 NUMBER M8555-0-EB18
 SIZE CODE D CS
 B
 A

DRAWING NUMBER PAGE PART NO. DESCRIPTION REVISIONS

FILE: RELAYOUT

ECO NUMBER 6

MODULE REVISION E

D-UA-M8555-0-0	4		MASSBUS CONTROL EBUS INTERFACE	E
K-PL-M8555-0-DBP	2		PARTS LIST	E
D-CS-M8555-0-EBI1	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI2	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI3	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI4	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI5	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI6	1		MASSBUS CONTROL EBUS INTERFACE	E
D-CS-M8555-0-EBI7	1		MASSBUS CONTROL EBUS INTERFACE	C
D-CS-M8555-0-EBI8	1		POWER, GND. CAPS.	C
D-MD-5010512-0-0	5		DRILL & ETCH DRAWING	B
		5010512	ETCH CIRCUIT BOARD	C
K-PC-M8555-0-DBC	1		P.C. DESIGN DATA BASE	C
P00-M8555-00			PROCESS SHEET (REF ONLY)	

NOTES: ECO #5 CANCELED

D
C
B
A

D
C
B
A

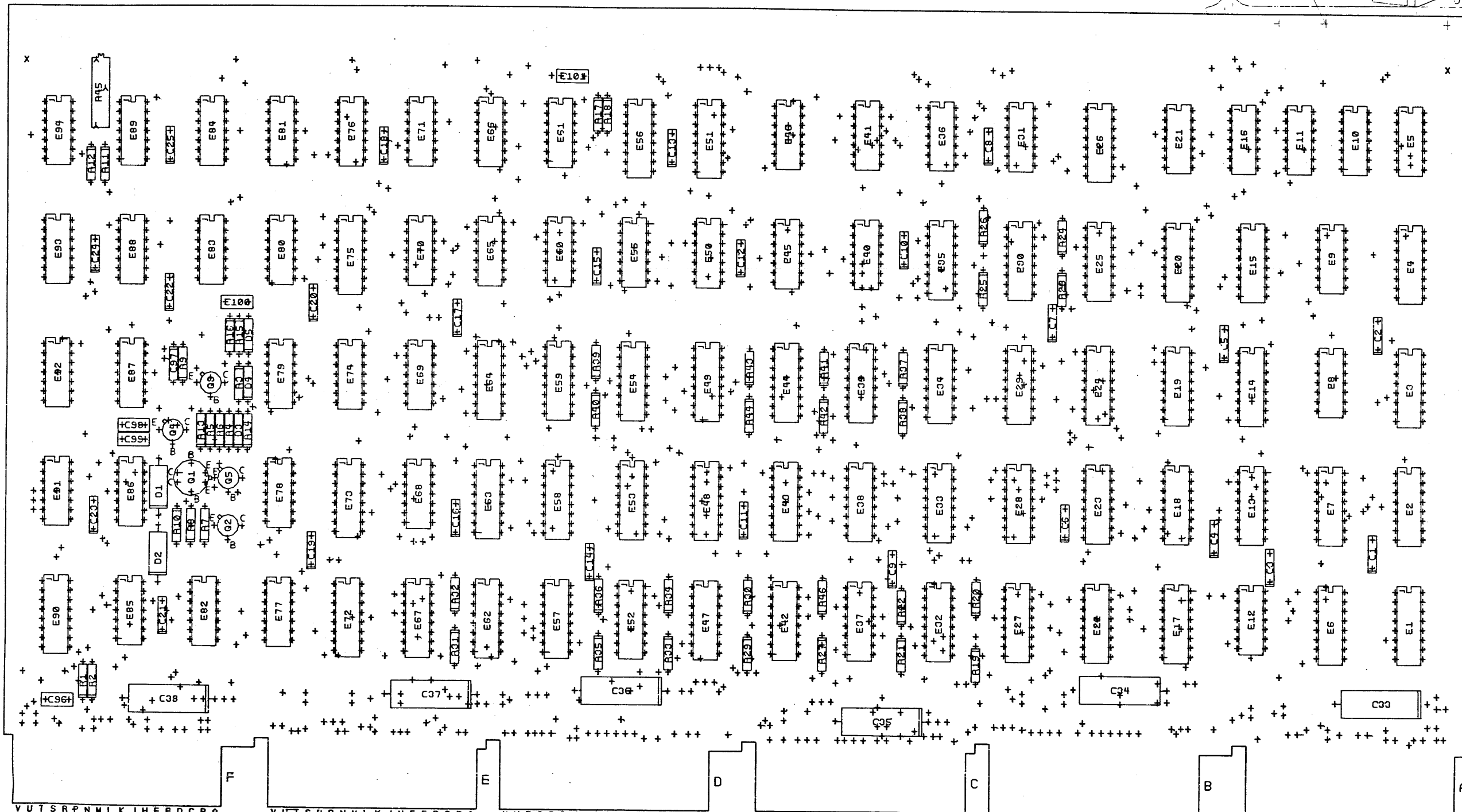
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REVISIONS	
CHK	CHANGE NO. REV

digital	CHK'D <i>M. Mahan</i>	DATE 9/21/78	TITLE MASS CONTROL EBUS INTERFACE
DSK:8555DD.T2P(4,616) 107-SEP-78 15:54	SHEET 2 OF 2	NEXT HIGHER ASSEMBLY: NONE	SIZE CODE NUMBER REV. D DD M8555-0 E
FIRST USED ON OPTION/MODEL: RH20			

REV. E
NUMBER DD M8555-0
SIZE CODE D DD
B
A

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43 (QTY 12)



NOTES:
 1. REFERENCE DESIGNATORS R32 C26 THRU C32 AND C33 THRU C35 ARE NOT USED.

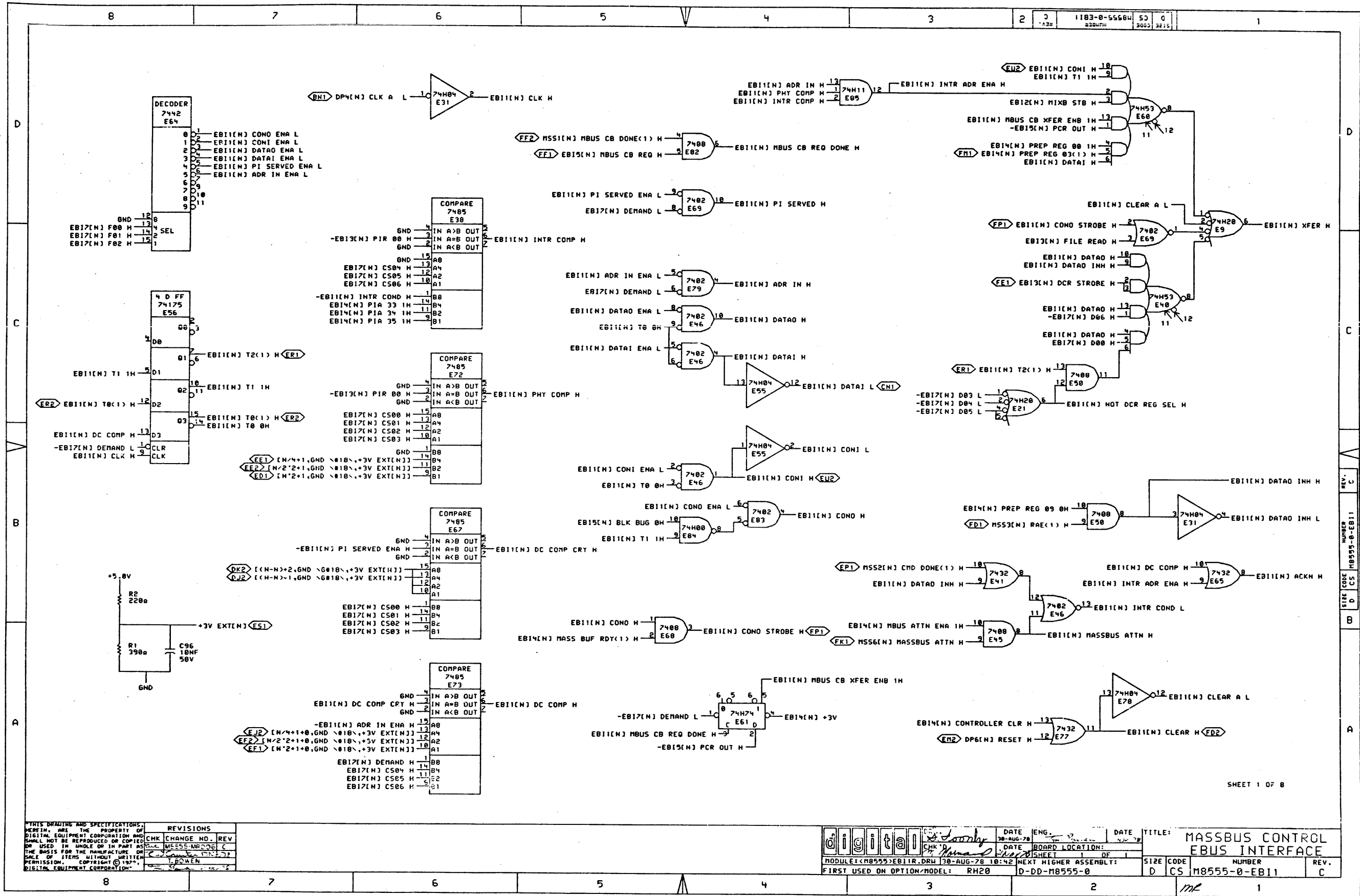
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3	1	G
4	1	H
5	1	I
6	1	J
7	1	K
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9	1	M
10	1	N
11	1	O
12	1	P
13	1	Q
14	1	R
15	1	S
16	1	T
17	1	U
18	1	V
19	1	W
20	1	X
21	1	Y
22	1	Z

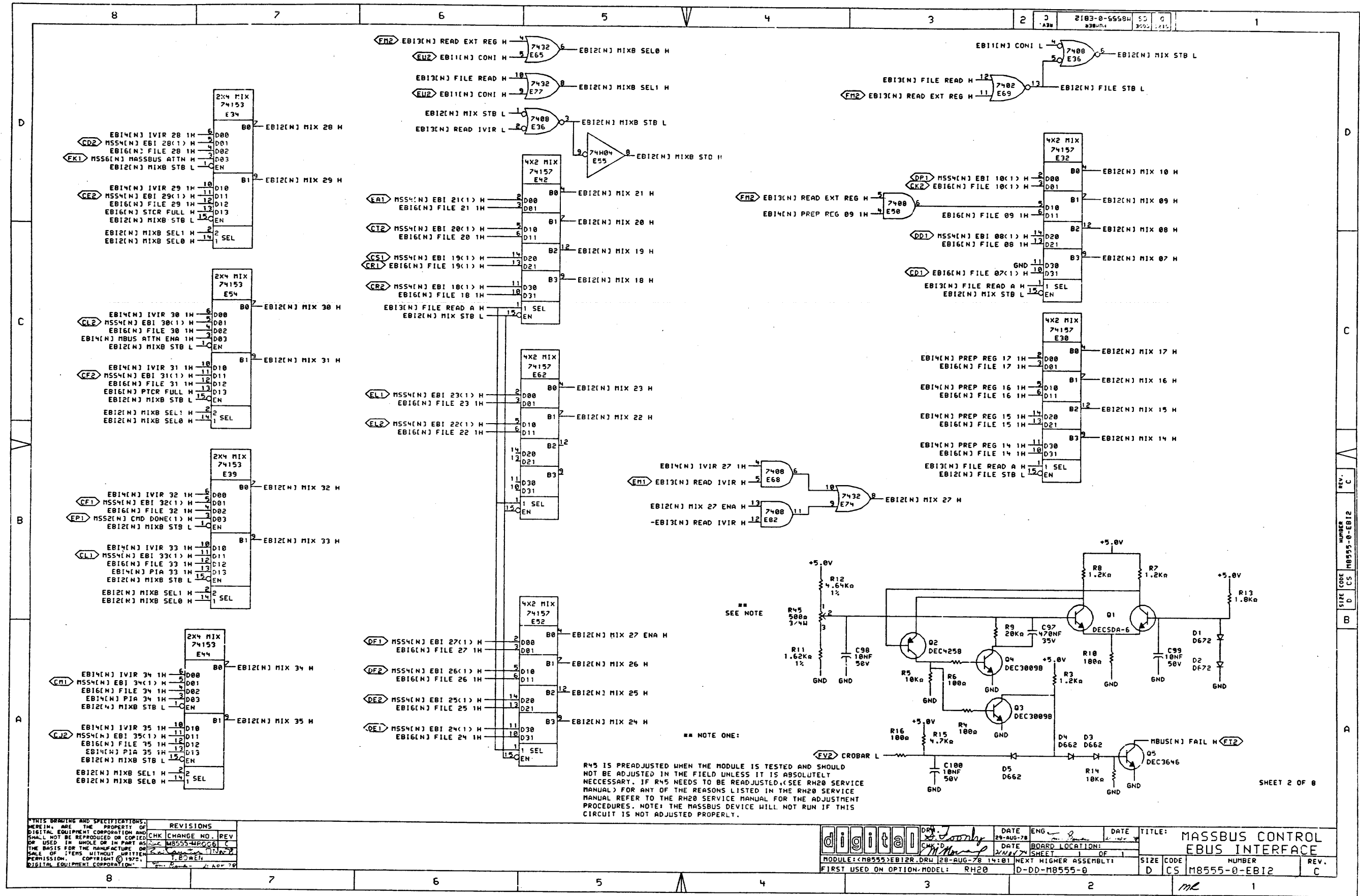
ETCH REV.	C-P2
P.C. DESIGN DATA BASE REV.	C

SIGNATURES		DATE	digital
DRN.	<i>[Signature]</i>	1/2/80	
CHK'D	<i>[Signature]</i>	1/2/80	
ENG.			
PROJ. ENG.			
PROD.			
SCALE	2/1		
SHT.	1 OF 4		
NEXT HIGHER ASSY.	D-DD-M8555-0		

TITLE	EBUS INTERFACE
SIZE	CODE
NUMBER	REV
UA	M8555-0-0 E

1 MS#





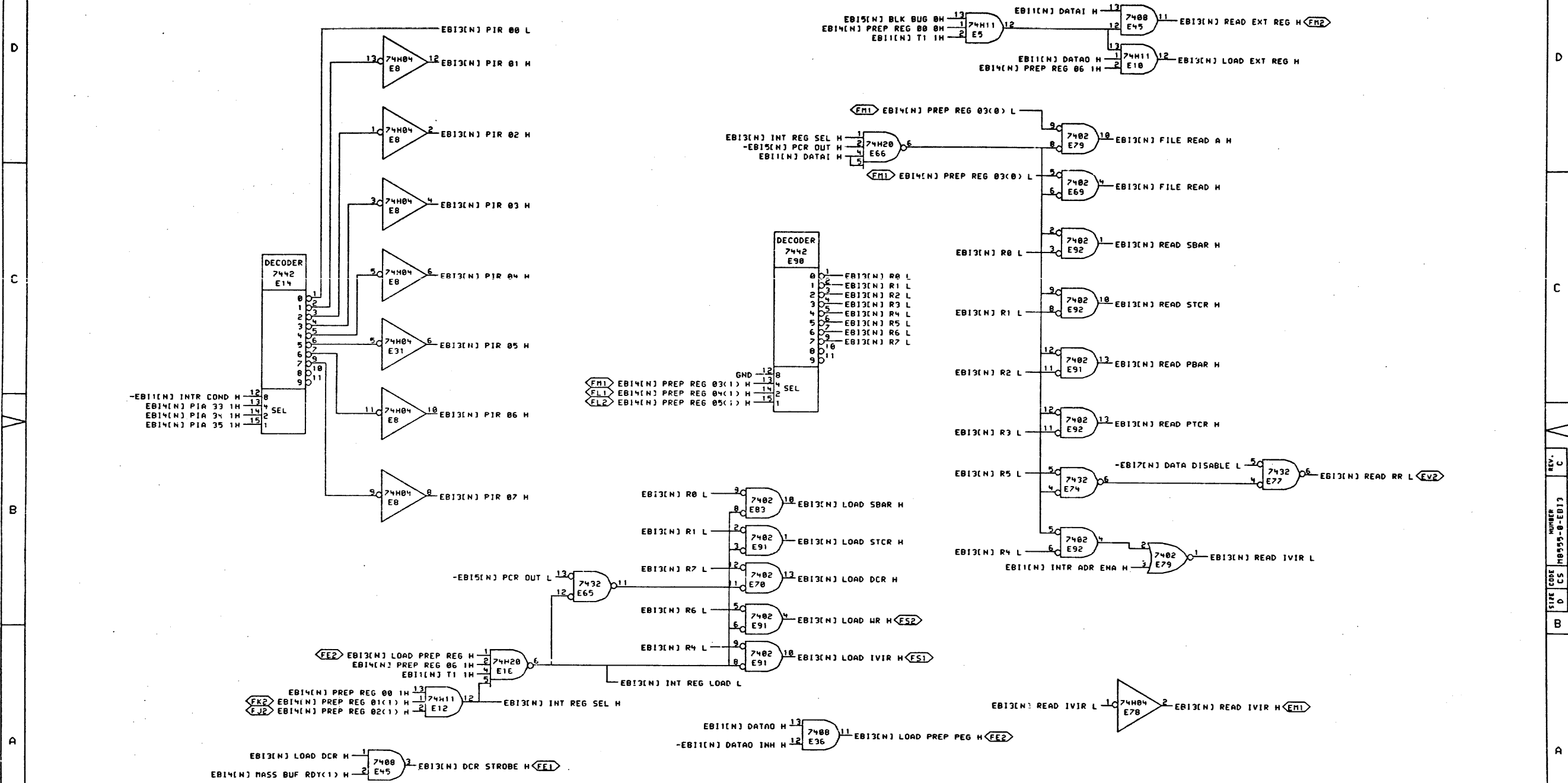
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REV.	DATE	DESCRIPTION
1	10/27/75	REVISED

REV.	DATE	DESCRIPTION
1	10/27/75	REVISED

digital	DATE: 29-AUG-78	ENG: [Signature]	DATE: [Signature]	TITLE: MASSBUS CONTROL EBUS INTERFACE
MODULE: M8555-EB12R.DRW	DATE: 28-AUG-78	14101	NEXT HIGHER ASSEMBLY: D-DD-M8555-0	SIZE: D
FIRST USED ON OPTION MODEL: RH20	DATE: [Signature]	BOARD LOCATION: [Signature]	SHEET: [Signature]	OF: [Signature]
				NUMBER: M8555-0-EB12
				REV. C

REV. C
NUMBER M8555-0-EB12
SIZE CODE D
CS



SHEET 3 OF 8

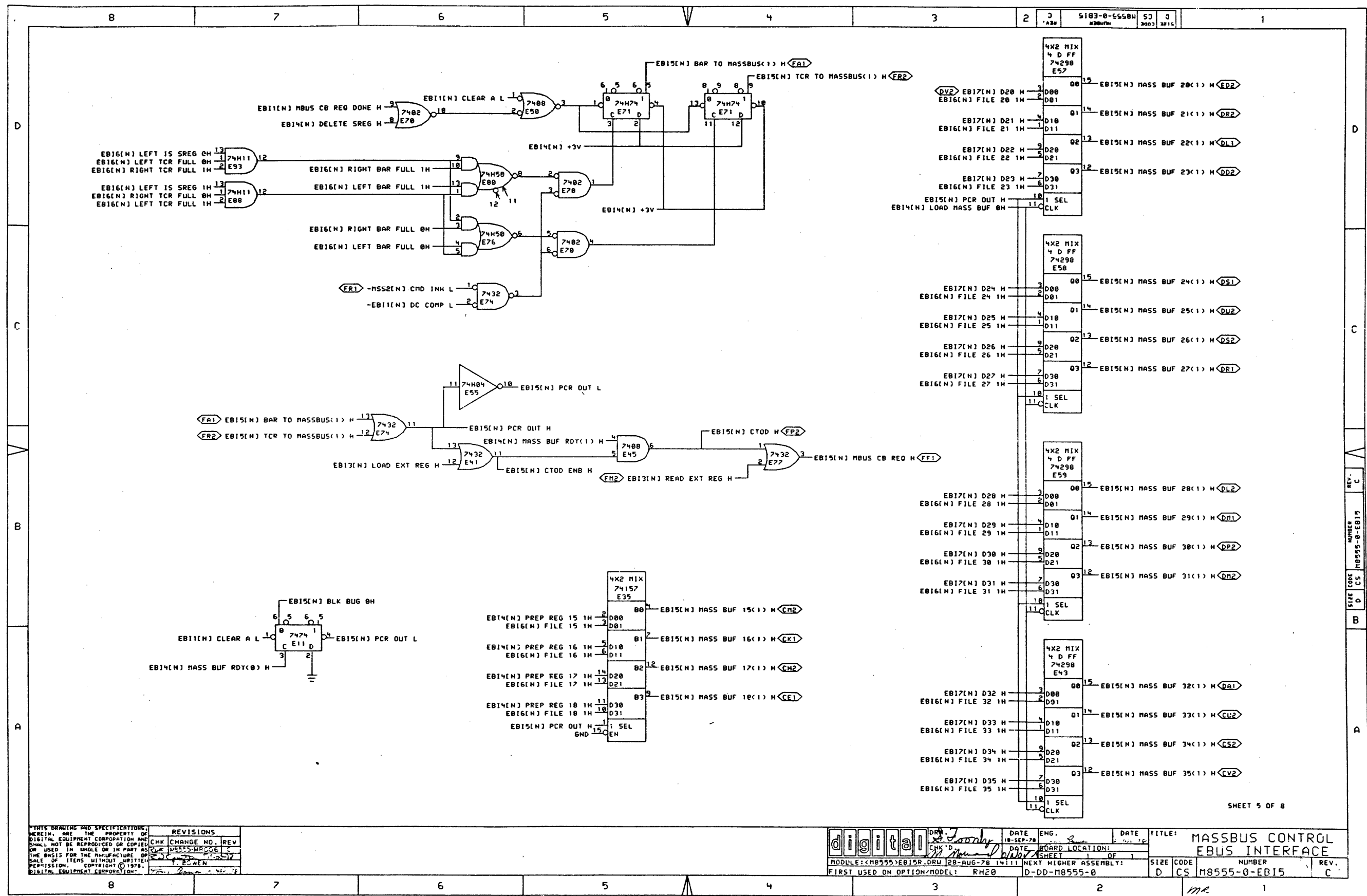
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REV.	DATE	DESCRIPTION
1		

REV.	DATE	DESCRIPTION
1		

DATE	18-SEP-78	ENG.	W. J. ...	DATE		TITLE:	MASSBUS CONTROL EBUS INTERFACE
CHK'D.		DATE		BOARD LOCATION:		SIZE	D
DRW.		DATE		SHEET	1 OF 1	CODE	CS
MODULE:	M8555-EB13R.DRW	28-AUG-78	14:07	NEXT HIGHER ASSEMBLY:		NUMBER	M8555-0-EB13
FIRST USED ON OPTION:	MODEL: RH20					REV.	C

REV. C
NUMBER M8555-0-EB13
D CS

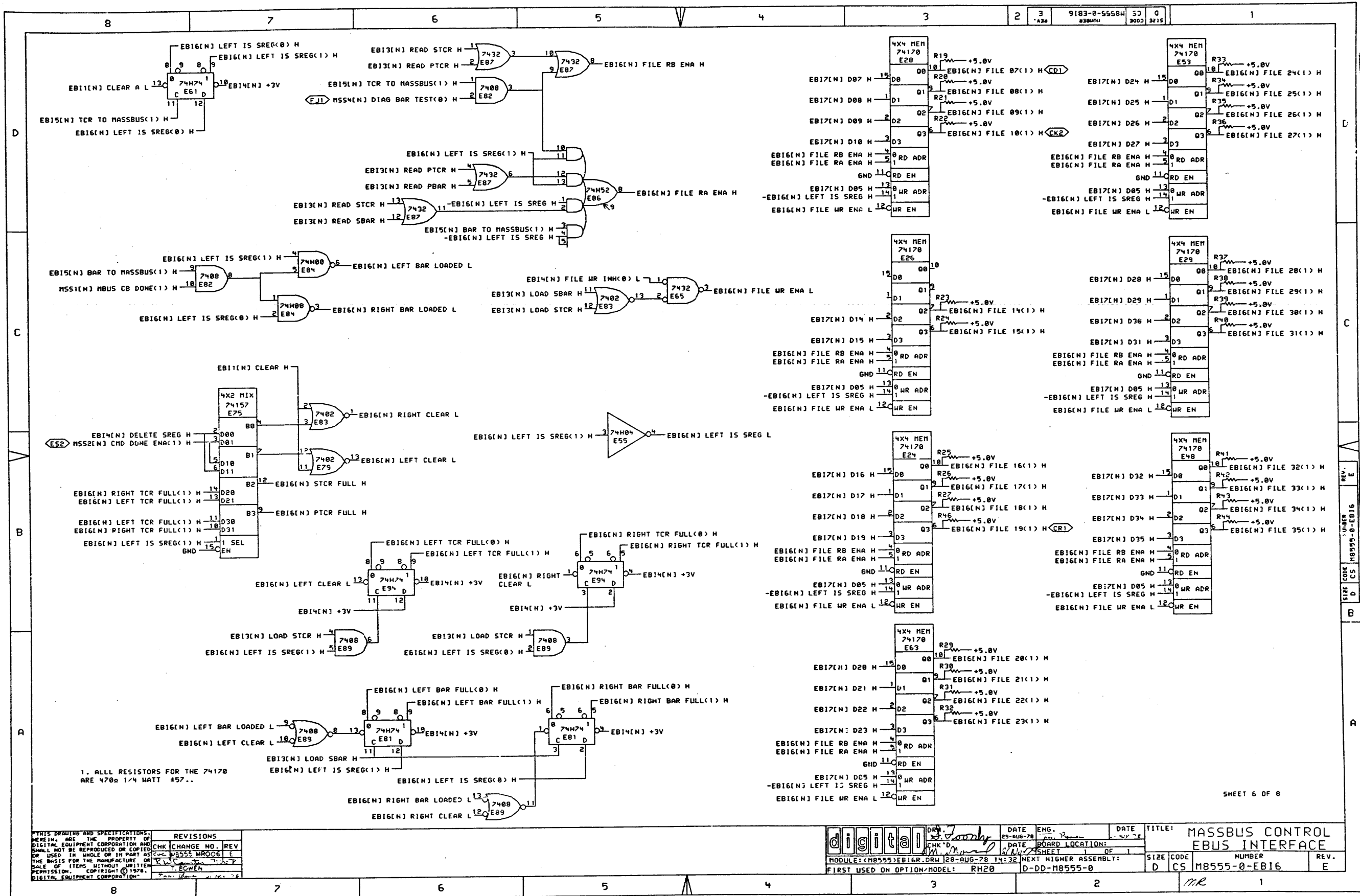


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REVISIONS	
CHK	CHANGE NO. REV
...	...
...	...

digital	DATE: 18-SEP-78	ENG: [Signature]	DATE: [Signature]	TITLE: MASSBUS CONTROL EBUS INTERFACE
MODULE: M8555-EB15R.DRW	DATE: 28-AUG-78 14:11	NEXT HIGHER ASSEMBLY: D-DD-M8555-0	SIZE CODE: D CS	NUMBER: M8555-0-EB15
FIRST USED ON OPTION/MODEL: RH20				REV. C

SHEET 5 OF 8

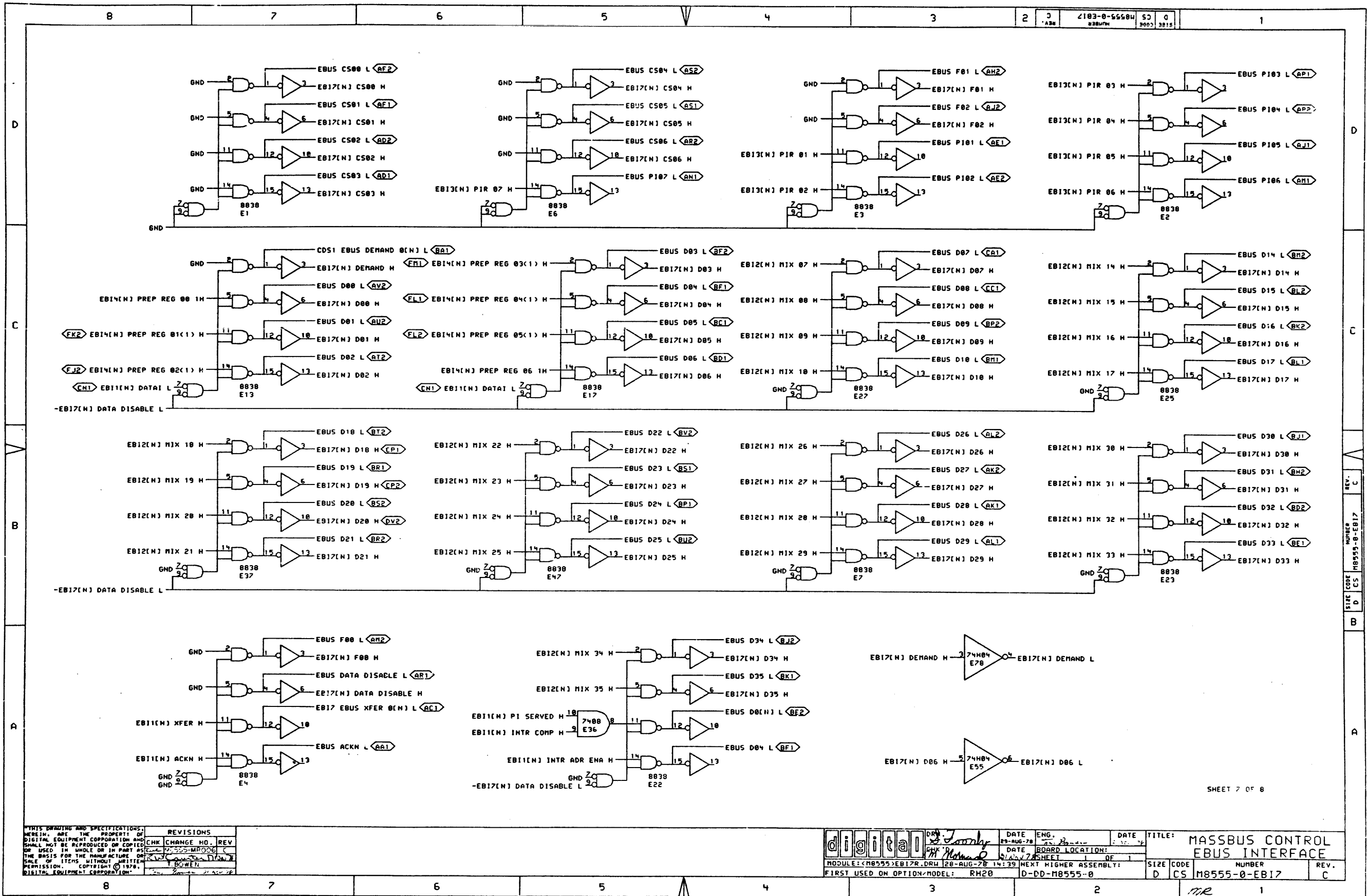


1. ALL RESISTORS FOR THE 74170 ARE 470Ω 1/4 WATT 5%..

REVISIONS	
CHK	CHANGE NO. REV
WALSH	MROO6 E
WALSH	MROO6 E
T. BOWEN	

digital	DATE	ENG.	DATE	TITLE:
	29-AUG-78			MASSBUS CONTROL EBUS INTERFACE
	DATE	BOARD LOCATION:		
	28-AUG-78 14:32			
MODULE: M8555-EB16.DRW	NEXT HIGHER ASSEMBLY:	SIZE	CODE	NUMBER
FIRST USED ON OPTION/MODEL: RH20	D-DD-M8555-0	D	CS	M8555-0-EB16
				REV. E

SHEET 6 OF 8



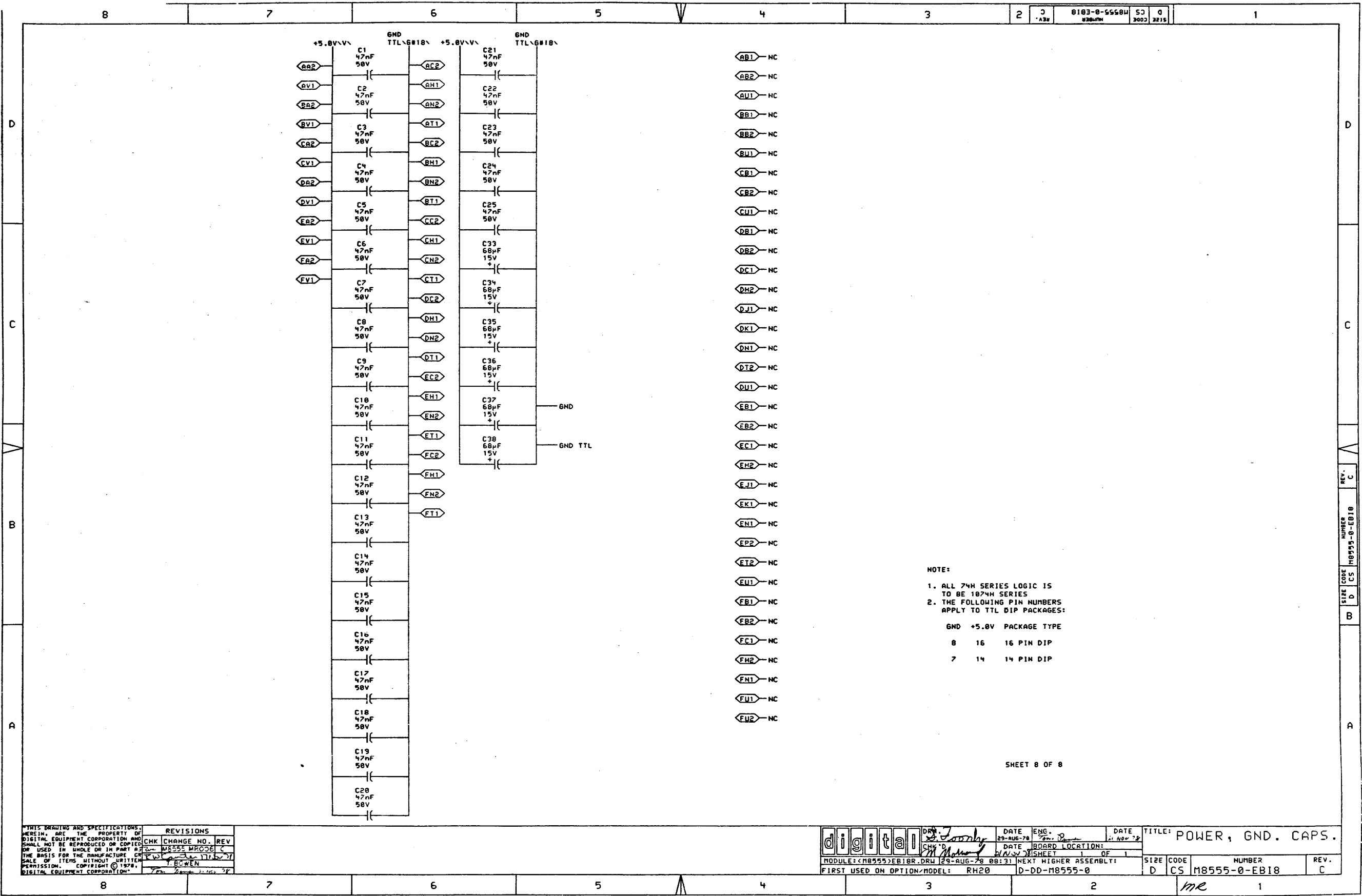
SHEET 7 OF 8

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REVISIONS		
CHK	CHANGE NO.	REV

	DATE: 29-AUG-78	ENG.:	DATE:	TITLE: MASSBUS CONTROL EBUS INTERFACE
	DATE: 29-AUG-78	DATE: 29-AUG-78	DATE: 29-AUG-78	DATE: 29-AUG-78
MODULE: M8555-EB17R.DRW 28-AUG-78 14:39	NEXT HIGHER ASSEMBLY:	SIZE CODE: D CS	NUMBER: M8555-0-EB17	REV. C
FIRST USED ON OPTION/MODEL: RH20	D-DD-M8555-0			

SIZE CODE NUMBER REV. C
 D CS M8555-0-EB17
 D B
 SHEET 7 OF 8
 MASSBUS CONTROL EBUS INTERFACE



CHK	CHANGE NO.	REV.

REVISIONS

digital

DATE: 29-AUG-78
 DATE: 21-Nov-78
 TITLE: POWER, GND. CAPS.

MODULE: M8555-EB18.DRW 29-AUG-78 08:31
 FIRST USED ON OPTION/MODEL: RH20

DATE: 21-Nov-78
 BOARD LOCATION: 1 OF 1
 NEXT HIGHER ASSEMBLY: D-DD-M8555-0

SIZE: D
 CODE: CS
 NUMBER: M8555-0-EB18
 REV.: C

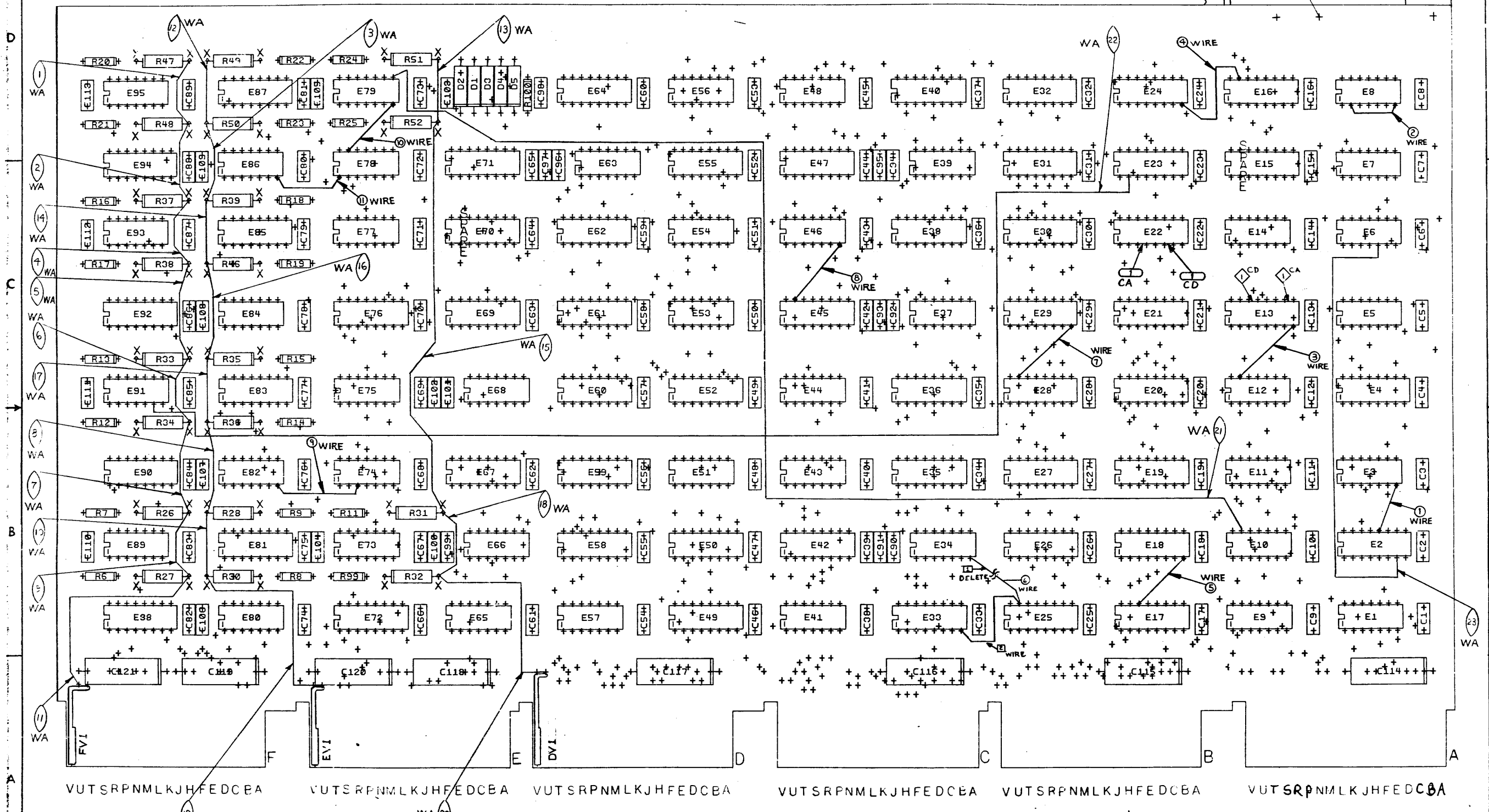
DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS							
FILE: ORIGINAL LAYOUT											
ECO NUMBER				-	1	2	3	4	5	6	7
MODULE REVISION					B	C	C	D	E	E	E
D-UA-M8556-0-0	5		MASSBUS CONTROL CBUS INTERFACE	-	A	B	C	D	E	E1	E1
D-CS-M8556-0-DP1	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	A	A	A1	A1
D-CS-M8556-0-DP2	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	A	A	A1	A1
D-CS-M8556-0-DP3	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	A	A	A1	A1
D-CS-M8556-0-DP4	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	B	C	C1	C1
D-CS-M8556-0-DP5	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	A	A	A1	A1
D-CS-M8556-0-DP6	1		MASSBUS CONTROL CBUS INTERFACE	-	-	-	-	-	-	*1	*1
D-CS-M8556-0-DP7	1		MASSBUS CONTROL CBUS INTERFACE	-	-	A	A	A	A	A1	A1
D-CS-M8556-0-DP8	1		POWER, GND. CAPS.	-	-	A	A	A	A	A1	A1
D-AH-M8556-0-5	4		DRILL & ETCH DRAWING	A	A	A	A	A	A	A1	A1
		5010632	ETCH CIRCUIT BOARD	B	B	B	B	B	B	B	B
K-CO-M8556-0-4	1		CALDEC DATA BASE	B	B	B	B	B	B	B	B
P00-M8556-00			PROCESS SHEET (REF ONLY)								

NOTES: ECO 6 RELAYOUT BOARD

REVISIONS
CHK CHANGE NO. REV
M8556-007 H
YOM BOWEN

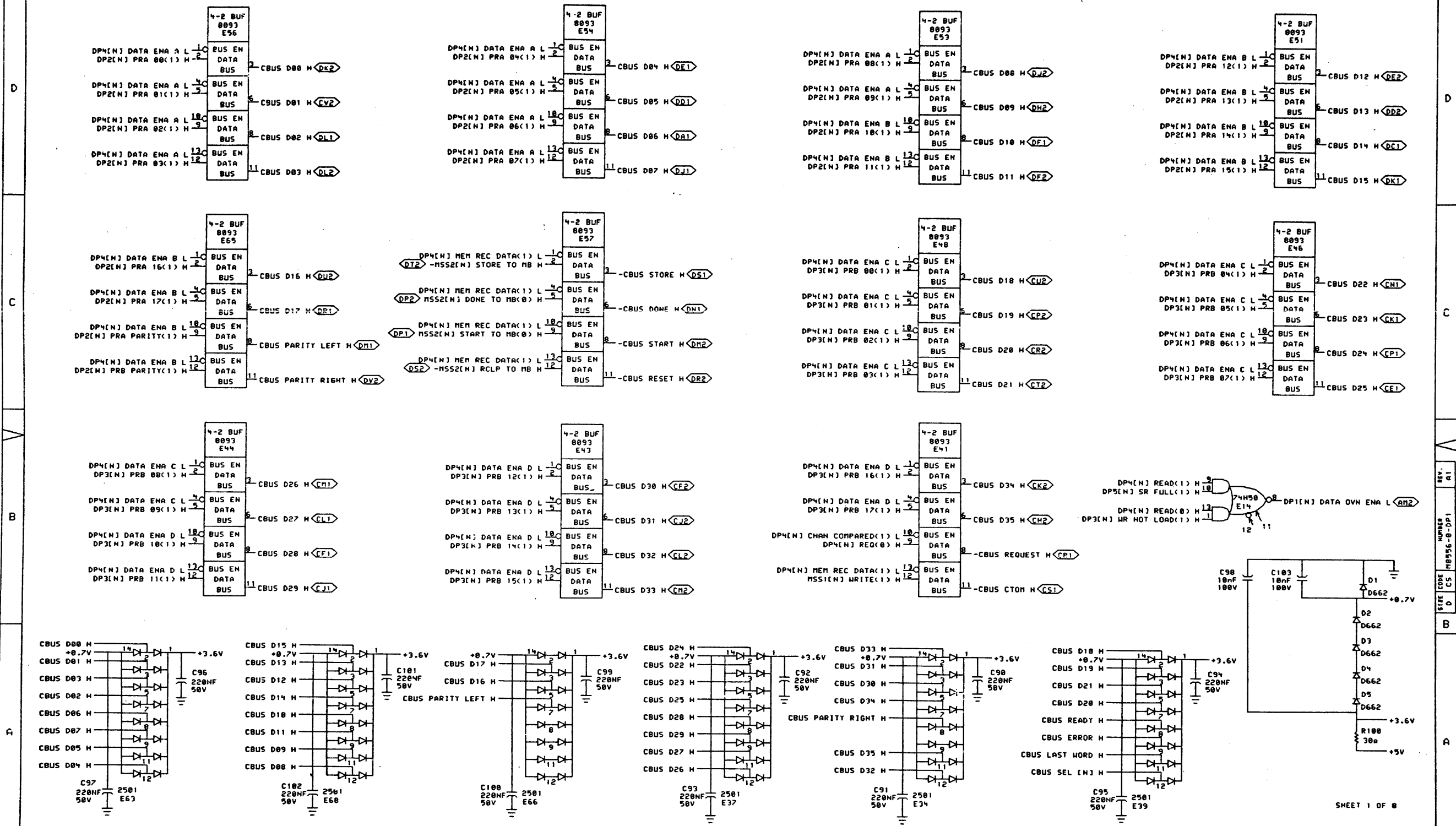
digital	DRW. <i>J. J. J.</i>	DATE 24-MAY-79	ENG. V. KU	DATE 12-DEC-74	TITLE: MASS CONTROL CBUS INTERFACE
FILE BLANK	DATE 12-DEC-74	SHEET 1 OF 2	BOARD LOCATION: N/A	SIZE CODE D DD	NUMBER M8556-0
FIRST USED ON OPTION/MODEL: RH20	NONE	NEXT HIGHER ASSEMBLY:			REV. H

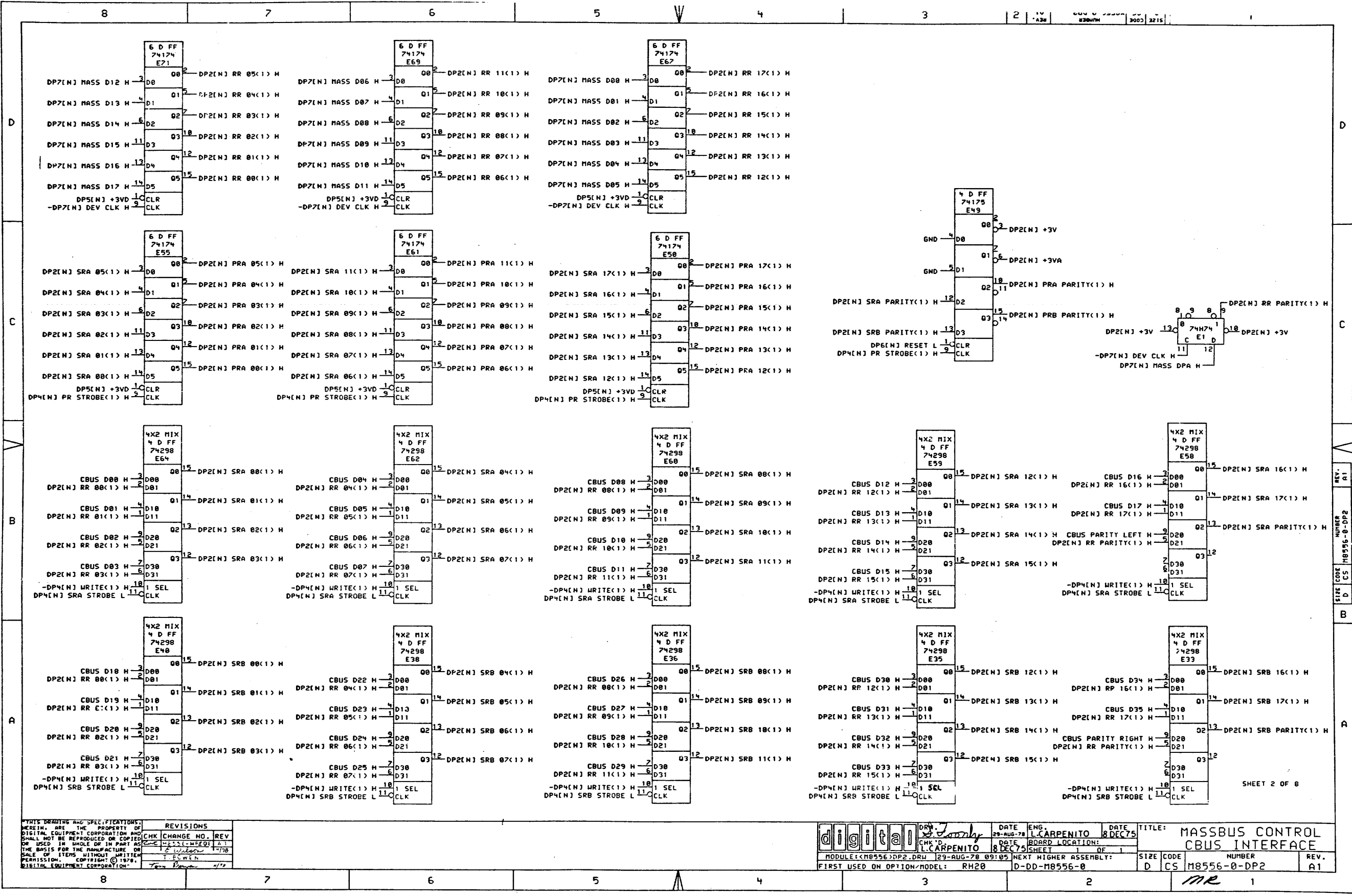
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REVISIONS		
CHK	CHANGE NO	REV
	N6556-MRC06	E1
	T. BOWEN	

TITLE	MASSBUS CONTROL CPU INTERFACE	SIZE CODE	DUA M8556-0-0	NUMBER	E1	REV.	
SCALE	2/1	SHEET	2 OF 5	DIST.			

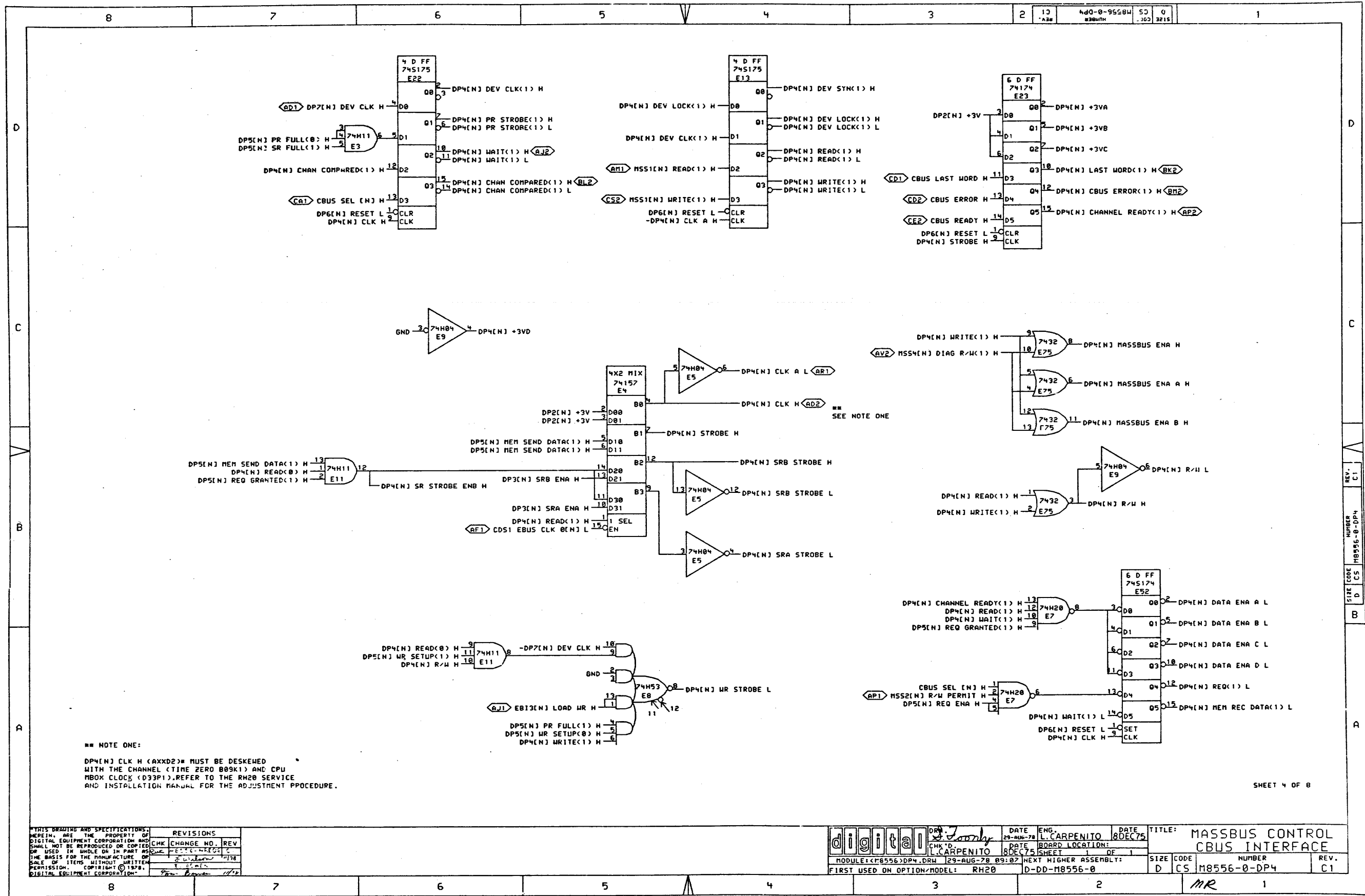




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REV.	NO.	DESCRIPTION
1	1	INITIAL RELEASE
2	1	REVISION

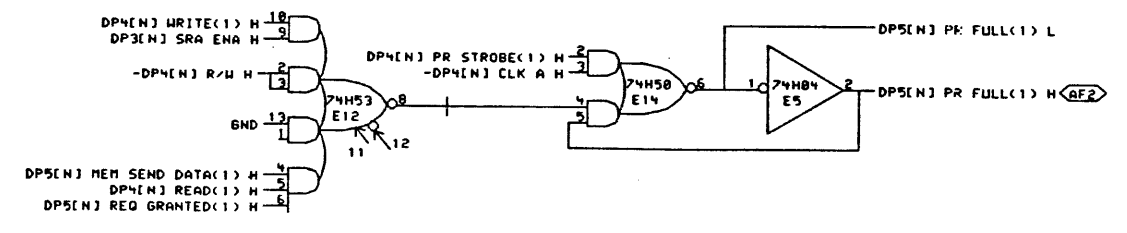
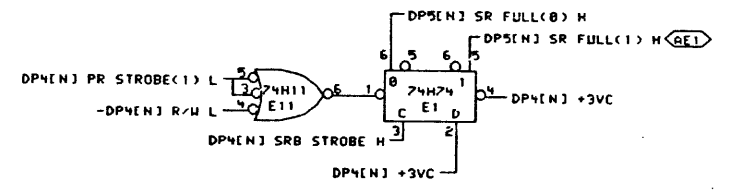
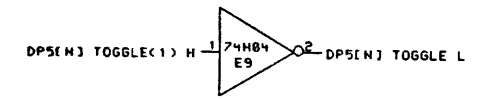
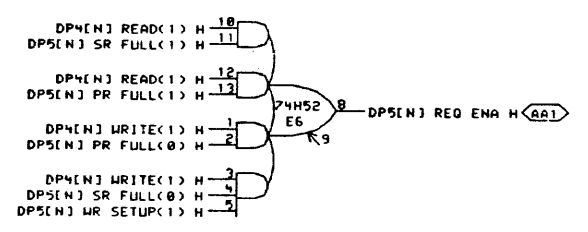
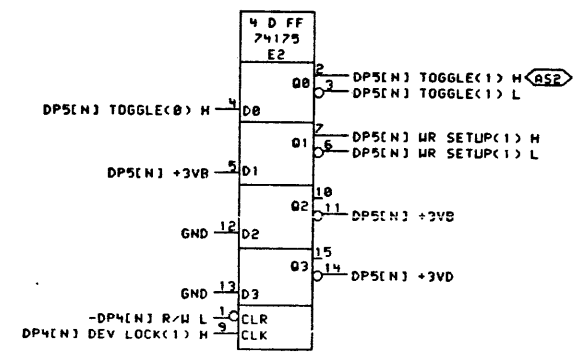
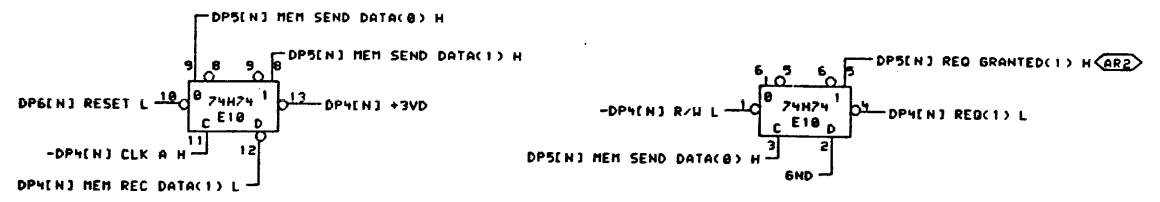
	DATE: 29-AUG-78	ENG: L. CARPENITO	DATE: 8 DEC 75	TITLE: MASSBUS CONTROL CBUS INTERFACE
	DATE: 8 DEC 75	BOARD LOCATION: SHEET 1 OF 1	DATE: 8 DEC 75	SIZE: D
MODULE: M8556-DP2-DRAW	DATE: 29-AUG-78	09:05	NEXT HIGHER ASSEMBLY: D-DD-M8556-0	SIZE: D
FIRST USED ON OPTION MODEL: RH20	DATE: 29-AUG-78	09:05	NEXT HIGHER ASSEMBLY: D-DD-M8556-0	SIZE: CS
				NUMBER: M8556-0-DP2
				REV: A1



NOTE ONE:
 DP4[N] CLK H (AXXD2)* MUST BE DESKEWED WITH THE CHANNEL (TIME ZERO 009K1) AND CPU MBOX CLOCK (D39P1). REFER TO THE RM20 SERVICE AND INSTALLATION MANUAL FOR THE ADJUSTMENT PROCEDURE.

REVISIONS	
CHK	CHANGE NO. REV
2	10/17/78
1	10/17/78

digital	DATE: 29-AUG-78	ENG: L. CARPENITO	DATE: 8DEC75	TITLE: MASSBUS CONTROL CBUS INTERFACE
CHK'D: L. CARPENITO	DATE: 8DEC75	BOARD LOCATION: 1 OF 1	SIZE: D	CODE: CS
MODULE: M8556-DP4	DRW: 29-AUG-78 09:07	NEXT HIGHER ASSEMBLY: D-DD-M8556-0	NUMBER: M8556-0-DP4	REV: C1
FIRST USED ON OPTION/MODEL: RH20				



SHEET 5 OF 8

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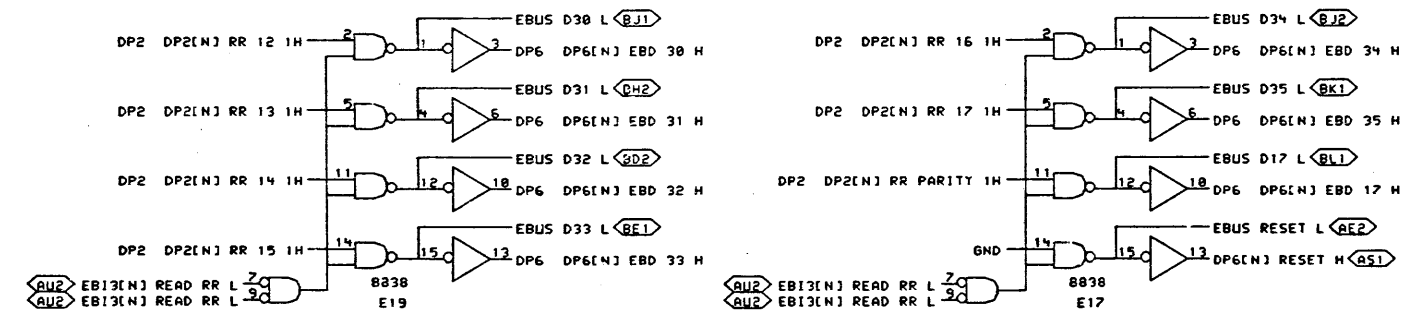
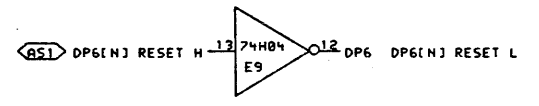
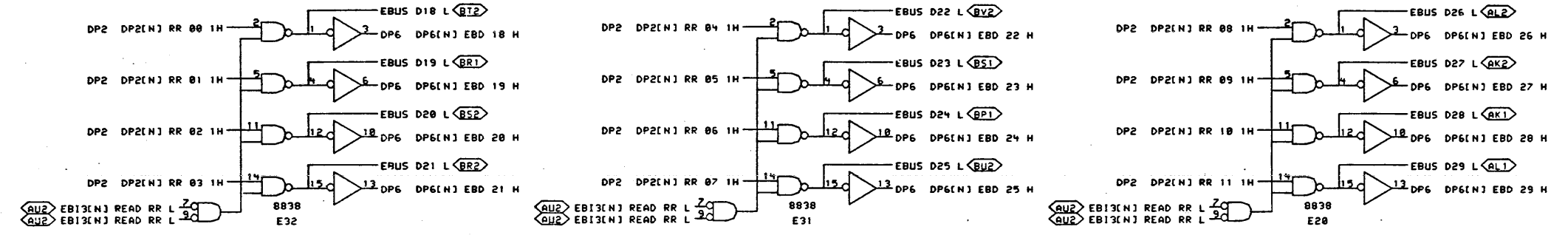
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	CHK'D	29-AUG-78	L. CARPENITO 18DEC75
MODULE: CM8556-DP5.DRW		DATE	BOARD LOCATION
FIRST USED ON OPTION/MODEL: RH20		29-AUG-78 09:08	1 DE 1
SIZE	CODE	NUMBER	REV.
D	C5	M8556-0-DP5	A1

D

C

B

A

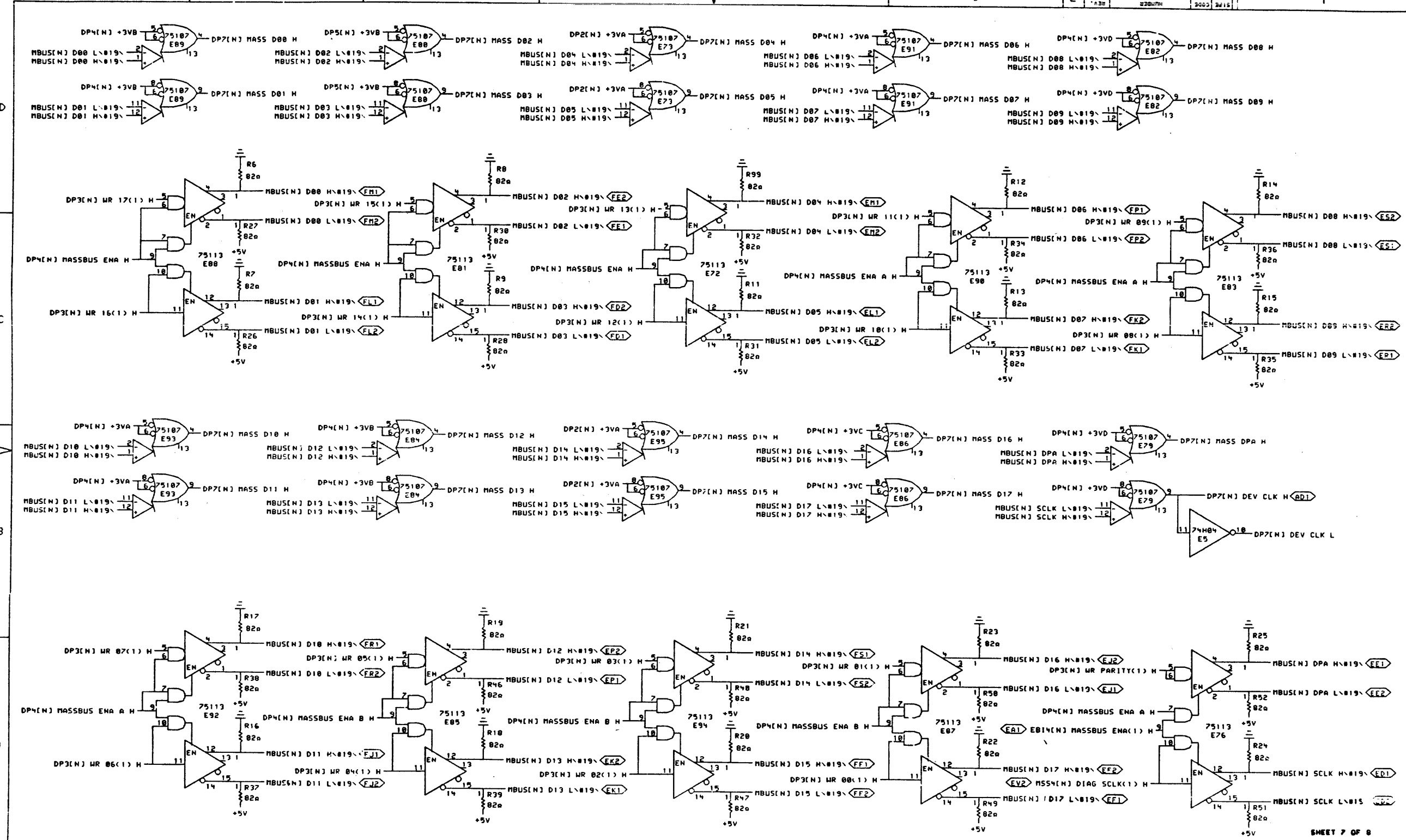


SHEET 6 OF 6

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REVISIONS	
CHK	CHANGE NO. REV
1	1

digital	DATE	ENG.	DATE	TITLE:
	29-AUG-78	L. CARPENITO	8DEC78	MASSBUS CONTROL CBUS INTERFACE
	CHK'D	DATE	BOARD LOCATION:	
	L. CARPENITO	8DEC78	SHEET 1 OF 1	
MODULE: M8556-DP6.DRW		29-AUG-78 09:09	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER REV.
FIRST USED ON OPTION/MODEL: RH20		D-DD-M8556-0		D CS M8556-0-DP6 *1

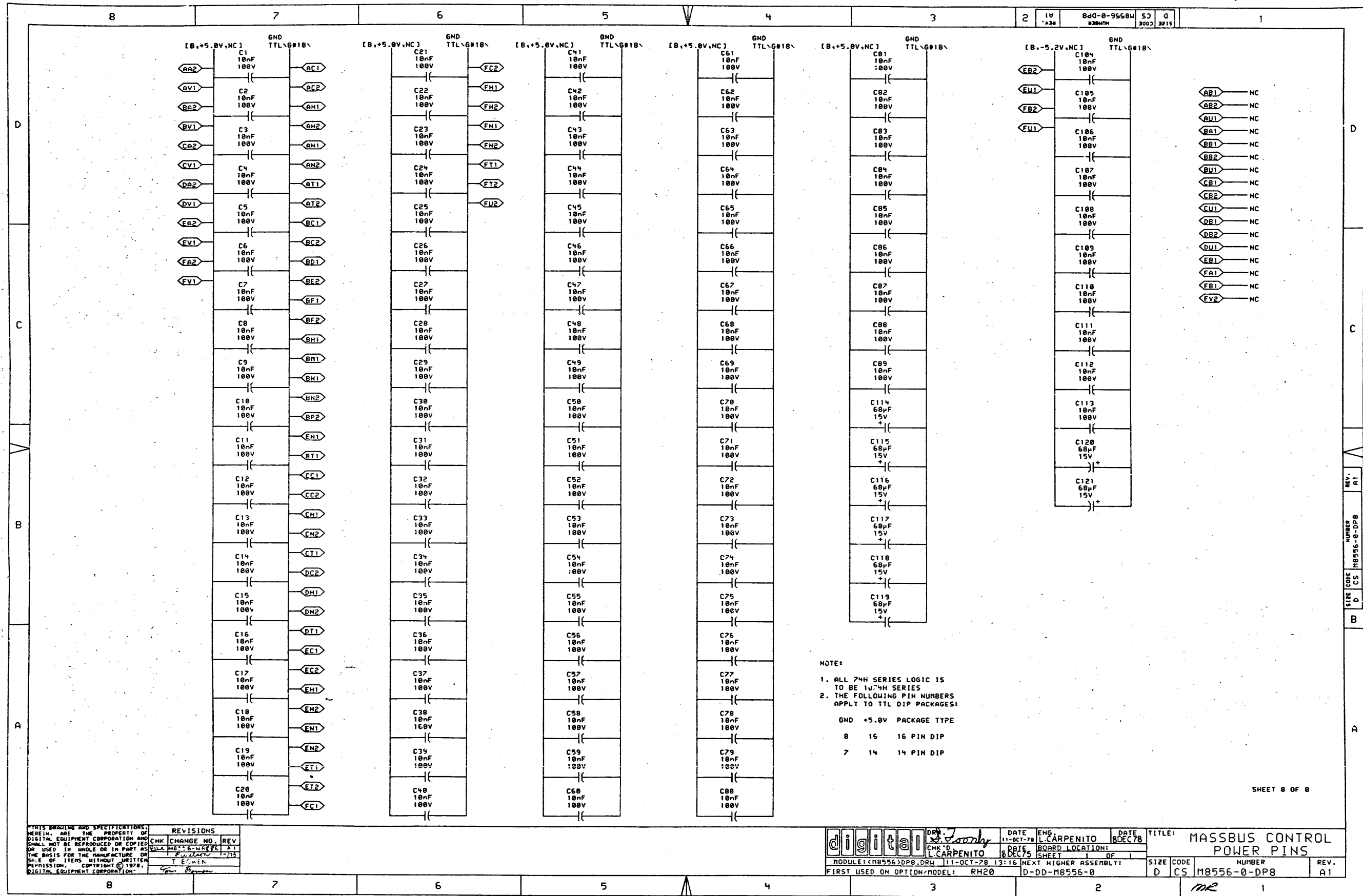


SHEET 7 OF 8

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REV.	CHG.	CHANGE NO.	REV.
1			

	DATE: 29-AUG-78	ENG.: L. CARPENITO	DATE: 8 DEC 75	TITLE: MASSBUS CONTROL
	CHK'D: L. CARPENITO	DATE: 8 DEC 75	SHEET: 1	CBUS INTERFACE
MODULE: MB556-DP7, DRN 129-AUG-78 09:14		NEXT HIGHER ASSEMBLY:		SIZE CODE: D CS
FIRST USED ON OPTION/MODEL: RH20		D-DD-MB556-0		NUMBER: MB556-0-DP7
				REV.: A1



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REV.	CHG.	CHANGE NO.	REV.
1			

digital DRN: *L. Carpenito* DATE: 11-OCT-78 ENG: L. CARPENITO DATE: DEC 78
 CHK'D: *L. Carpenito* DATE: 8 DEC 78 BOARD LOCATION: SHEET 1 OF 1
 MODULE: M8556-DP8.DRW 11-OCT-78 13:16 NEXT HIGHER ASSEMBLY: D-DD-M8556-0
 FIRST USED ON OPTION/MODEL: RH20

TITLE: MASSBUS CONTROL POWER PINS
 SIZE CODE: D CS NUMBER: M8556-0-DP8 REV. A1

DRAWING NUMBER PAGE PART NO. DESCRIPTION REVISIONS

FILE: RELAYOUT

ECO NUMBER 6 7

MODULE REVISION F H

D-UA-M8556-0-0	4		MASSBUS CONTROL CBUS INTERFACE	F	H
K-PL-M8556-0-DBP	2		PARTS LIST	F	H
D-CS-M8556-0-DP1	1		MASSBUS CONTROL CBUS INTERFACE	B	B
D-CS-M8556-0-DP2	1		MASSBUS CONTROL CBUS INTERFACE	B	B
D-CS-M8556-0-DP3	1		MASSBUS CONTROL CBUS INTERFACE	B	B
D-CS-M8556-0-DP4	1		MASSBUS CONTROL CBUS INTERFACE	D	E
D-CS-M8556-0-DP5	1		MASSBUS CONTROL CBUS INTERFACE	B	C
D-CS-M8556-0-DP6	1		MASSBUS CONTROL CBUS INTERFACE	A	A
D-CS-M8556-0-DP7	1		MASSBUS CONTROL CBUS INTERFACE	B	B
D-CS-M8556-0-DP8	1		POWER, GND. CAPS.	B	C
D-MD-5010632-0-0	5		DRILL & ETCH DRAWING	B	B
		5010632	ETCH CIRCUIT BOARD	C	C
K-PC-M8556-0-DBC	-		P.C. DESIGN DATA BASE	C	C
P00-M8556-00			PROCESS SHEET (REF ONLY)		

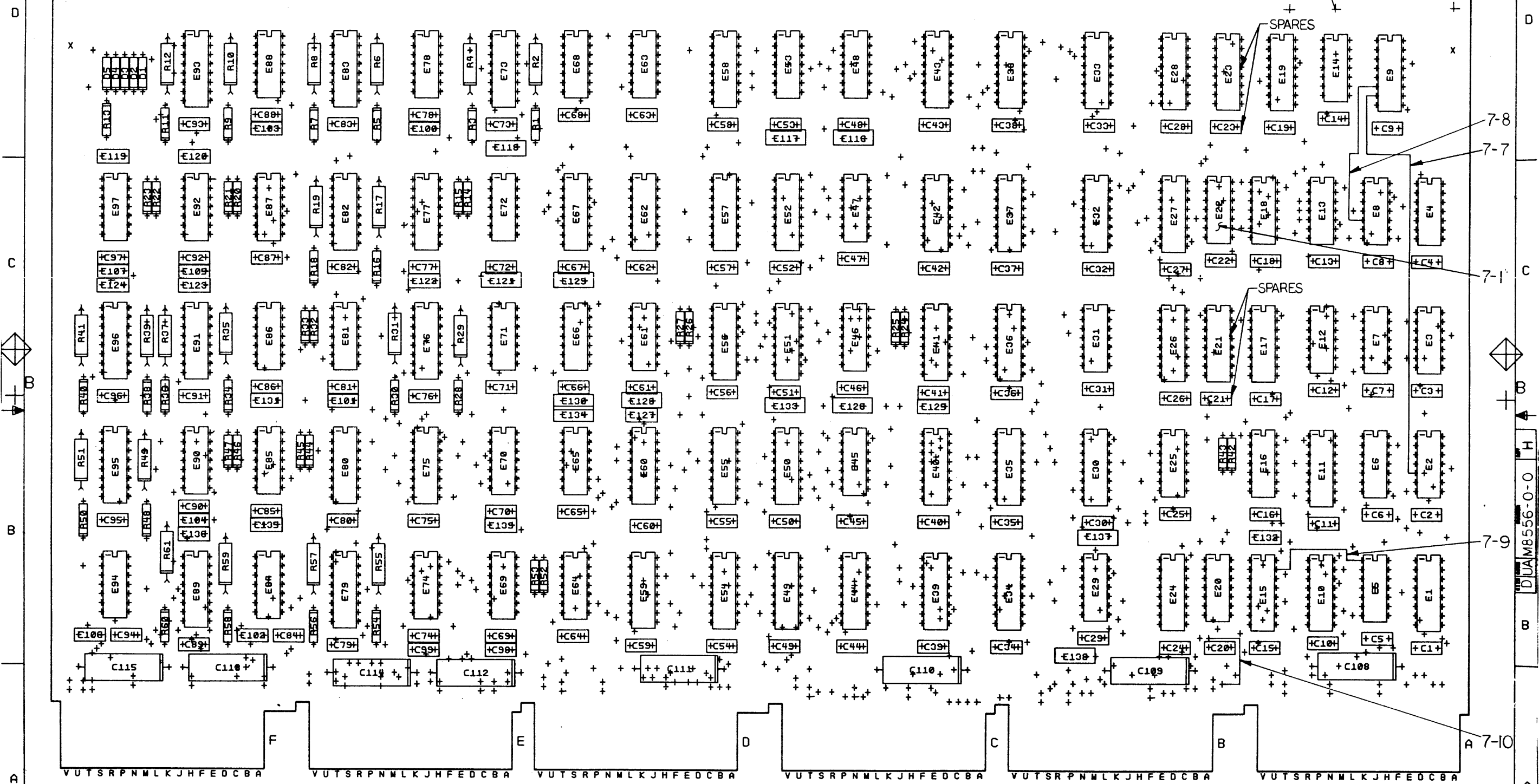
NOTES: ECO 6 RELAYOUT BOARD
 ECO 7 REMOVES SPEED UP FEATURE THAT DOES NOT WORK WITH
 SOME EXTERNAL MEMORY CONFIGURATIONS.

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

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H 0-0-959877 2 1 MR

28 (QTY 12)



NOTES:

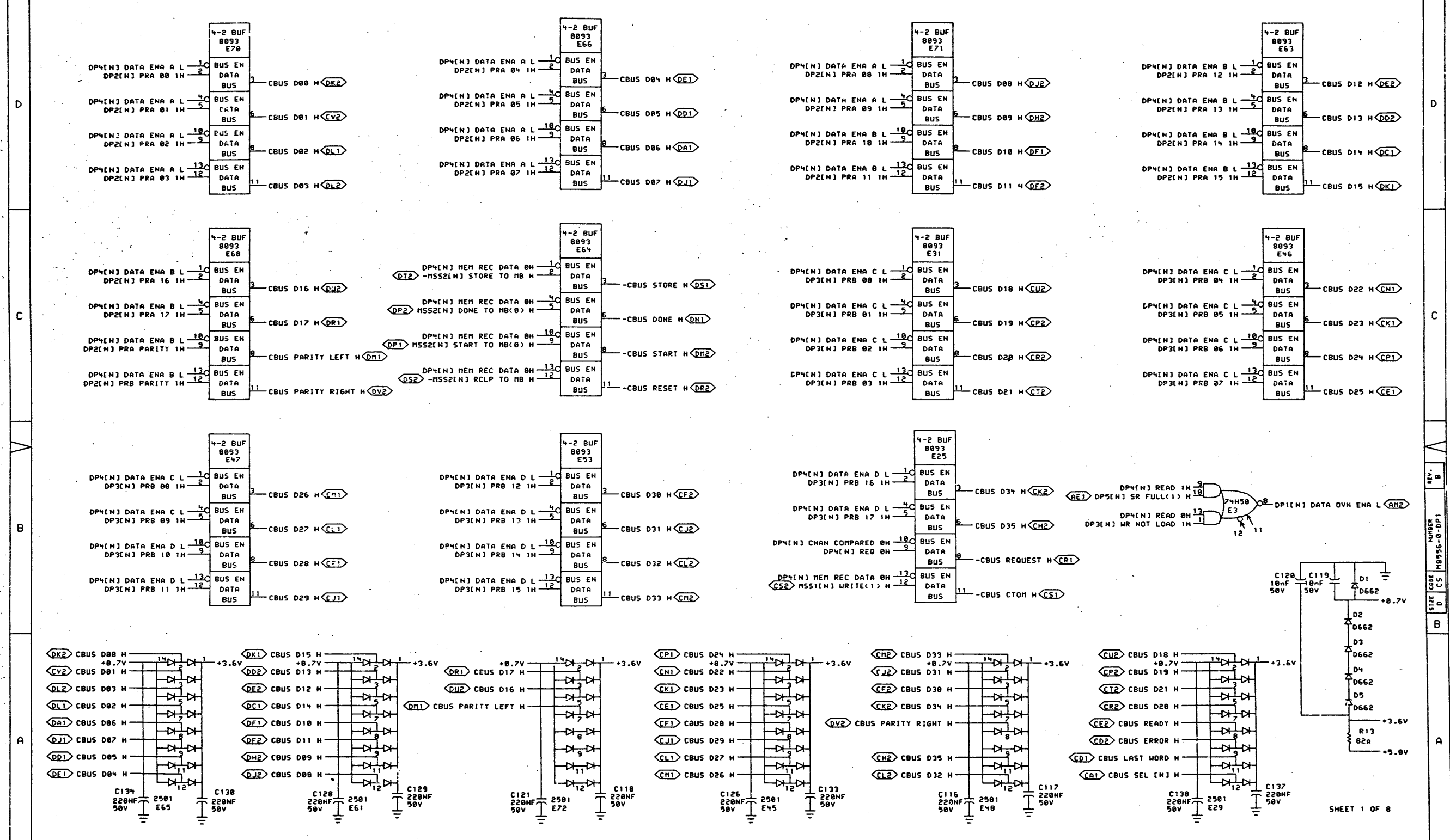
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6	1	1
7	1	1
8	1	1

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

ETCH REV.	C-P4
P.C. DESIGN DATA BASE REV.	C

SIGNATURES	DATE	digital
DRN: [Signature]	10/1/78	
CHK: [Signature]	10/1/78	
ENG: [Signature]	10/1/78	
PROJ. ENG: [Signature]	10/1/78	
PROD: [Signature]	10/1/78	TITLE MASS BUS DATA PATH
SCALE 2/1	SIZE CODE	NUMBER
SHT. 1 OF 5	d	UA M8556-0-0
NEXT HIGHER ASSY: D-DD-M8556-0		RPV

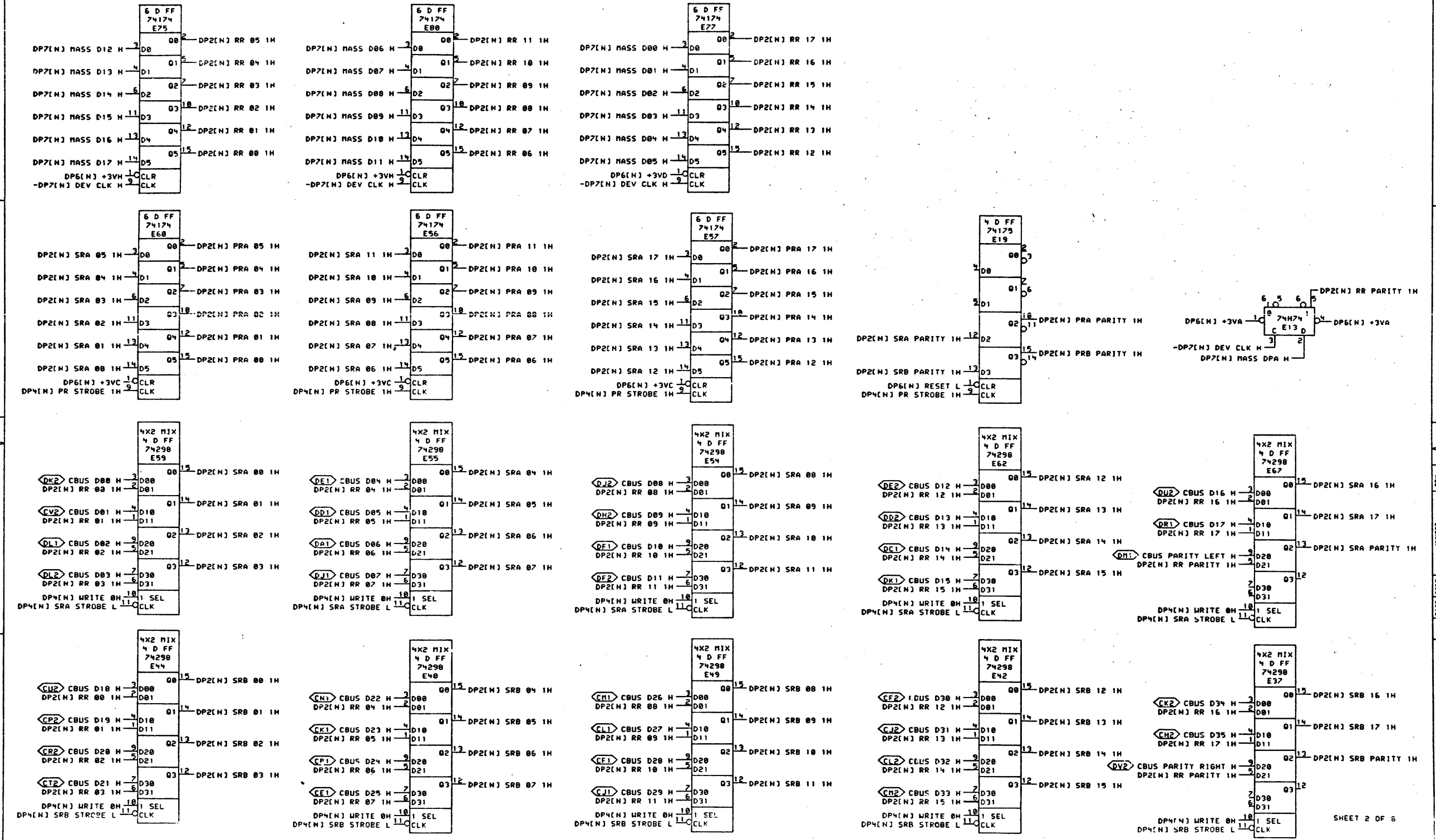
DUA M8556-0-0



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REV.	CHANGE NO.	REV.
1	1	1

	DATE: 11-OCT-78 BOARD LOCATION: 11-22-3 SHEET: 1 OF 8	TITLE: MASSBUS CONTROL CBUS INTERFACE
MODULE: M8556-DP1PR-RVC FIRST USED ON OPTION/MODEL: RH20	DATE: 11-OCT-78 BOARD LOCATION: 11-22-3 SHEET: 1 OF 8	SIZE: D CS NUMBER: M8556-0-DP1 REV.: B



REV. B
SIZE CODE CS M8556-0-DP2

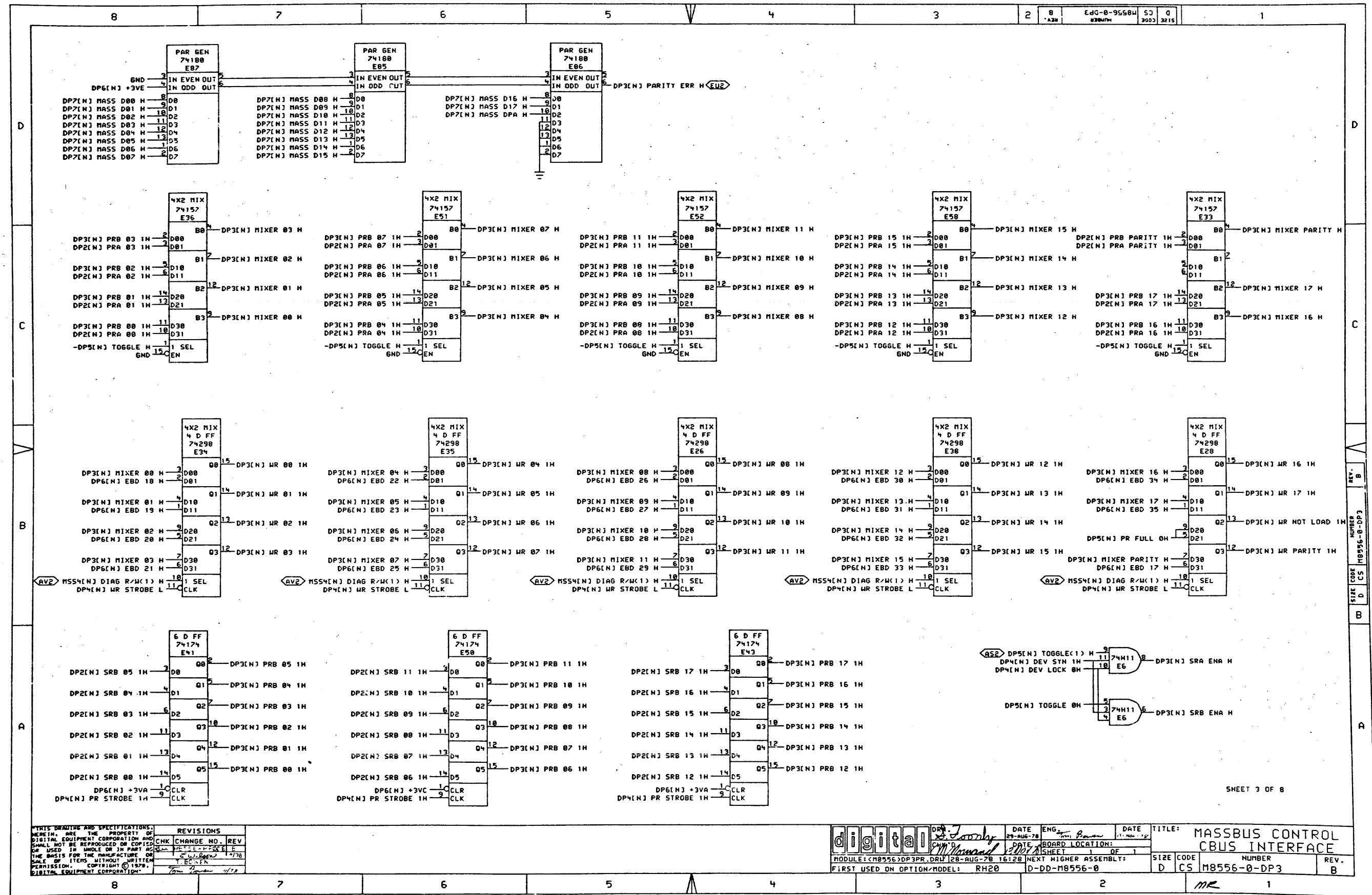
SHEET 2 OF 6

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REV. NO.	DATE	DESCRIPTION
1	11/15/74	INITIAL DESIGN
2	1/15/75	REVISION
3	3/15/75	REVISION
4	5/15/75	REVISION
5	7/15/75	REVISION
6	9/15/75	REVISION
7	11/15/75	REVISION
8	1/15/76	REVISION
9	3/15/76	REVISION
10	5/15/76	REVISION
11	7/15/76	REVISION
12	9/15/76	REVISION
13	11/15/76	REVISION
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99	3/15/91	REVISION
100	5/15/91	REVISION

digital *DP2* *7* *11/15/74* *1/15/75* *3/15/75* *5/15/75* *7/15/75* *9/15/75* *11/15/75* *1/15/76* *3/15/76* *5/15/76* *7/15/76* *9/15/76* *11/15/76* *1/15/77* *3/15/77* *5/15/77* *7/15/77* *9/15/77* *11/15/77* *1/15/78* *3/15/78* *5/15/78* *7/15/78* *9/15/78* *11/15/78* *1/15/79* *3/15/79* *5/15/79* *7/15/79* *9/15/79* *11/15/79* *1/15/80* *3/15/80* *5/15/80* *7/15/80* *9/15/80* *11/15/80* *1/15/81* *3/15/81* *5/15/81* *7/15/81* *9/15/81* *11/15/81* *1/15/82* *3/15/82* *5/15/82* *7/15/82* *9/15/82* *11/15/82* *1/15/83* *3/15/83* *5/15/83* *7/15/83* *9/15/83* *11/15/83* *1/15/84* *3/15/84* *5/15/84* *7/15/84* *9/15/84* *11/15/84* *1/15/85* *3/15/85* *5/15/85* *7/15/85* *9/15/85* *11/15/85* *1/15/86* *3/15/86* *5/15/86* *7/15/86* *9/15/86* *11/15/86* *1/15/87* *3/15/87* *5/15/87* *7/15/87* *9/15/87* *11/15/87* *1/15/88* *3/15/88* *5/15/88* *7/15/88* *9/15/88* *11/15/88* *1/15/89* *3/15/89* *5/15/89* *7/15/89* *9/15/89* *11/15/89* *1/15/90* *3/15/90* *5/15/90* *7/15/90* *9/15/90* *11/15/90* *1/15/91* *3/15/91* *5/15/91* *7/15/91* *9/15/91* *11/15/91* *1/15/92* *3/15/92* *5/15/92* *7/15/92* *9/15/92* *11/15/92* *1/15/93* *3/15/93* *5/15/93* *7/15/93* *9/15/93* *11/15/93* *1/15/94* *3/15/94* *5/15/94* *7/15/94* *9/15/94* *11/15/94* *1/15/95* *3/15/95* *5/15/95* *7/15/95* *9/15/95* *11/15/95* *1/15/96* *3/15/96* *5/15/96* *7/15/96* *9/15/96* *11/15/96* *1/15/97* *3/15/97* *5/15/97* *7/15/97* *9/15/97* *11/15/97* *1/15/98* *3/15/98* *5/15/98* *7/15/98* *9/15/98* *11/15/98* *1/15/99* *3/15/99* *5/15/99* *7/15/99* *9/15/99* *11/15/99* *1/15/00* *3/15/00* *5/15/00* *7/15/00* *9/15/00* *11/15/00*

DATE: 28-AUG-78
 ENG: *Tom Brown*
 TITLE: MASSBUS CONTROL CBUS INTERFACE
 BOARD LOCATION: *1* OF *1*
 SHEET: *1* OF *1*
 NEXT HIGHER ASSEMBLY:
 FIRST USED ON OPTION/MODEL: RH20
 D-DD-M8556-0
 SIZE CODE NUMBER REV.
 D CS M8556-0-DP2 B

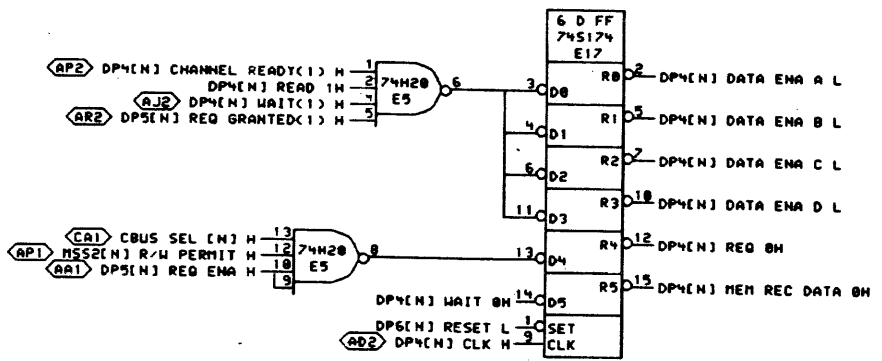
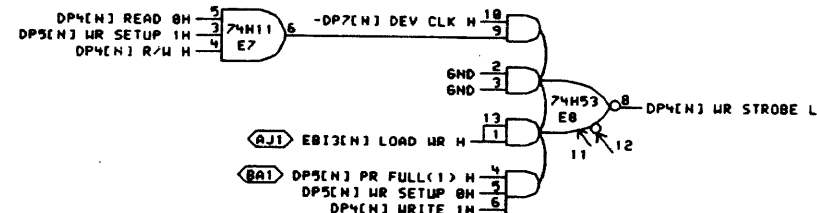
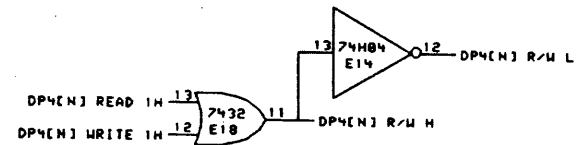
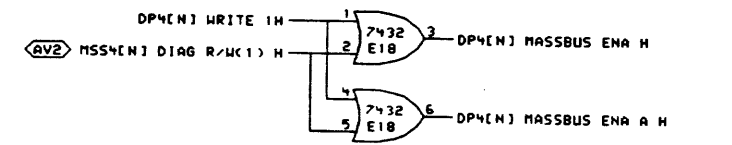
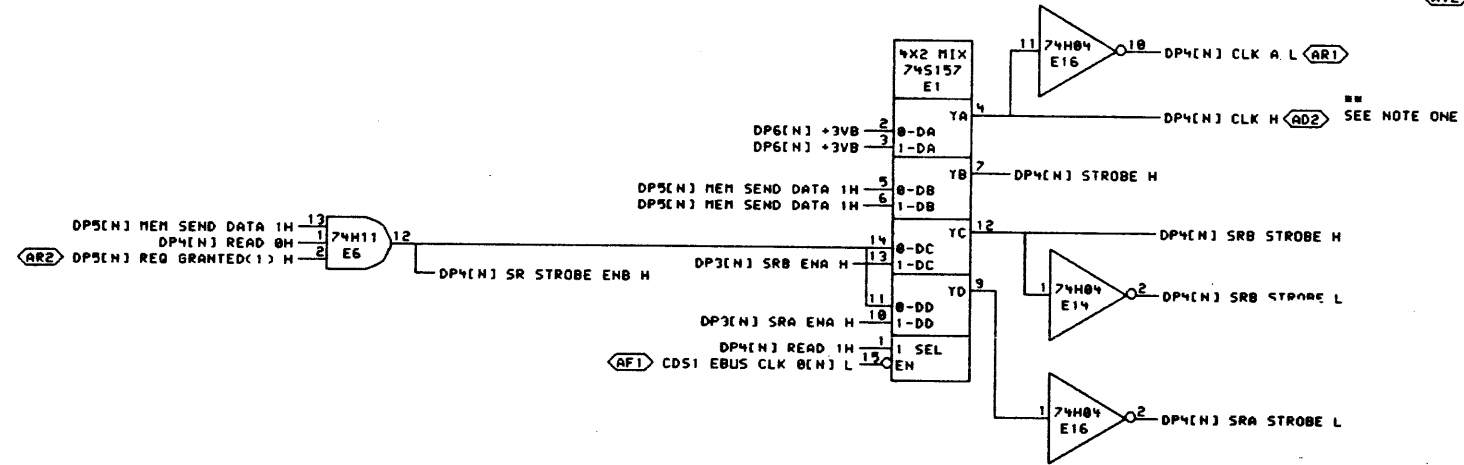
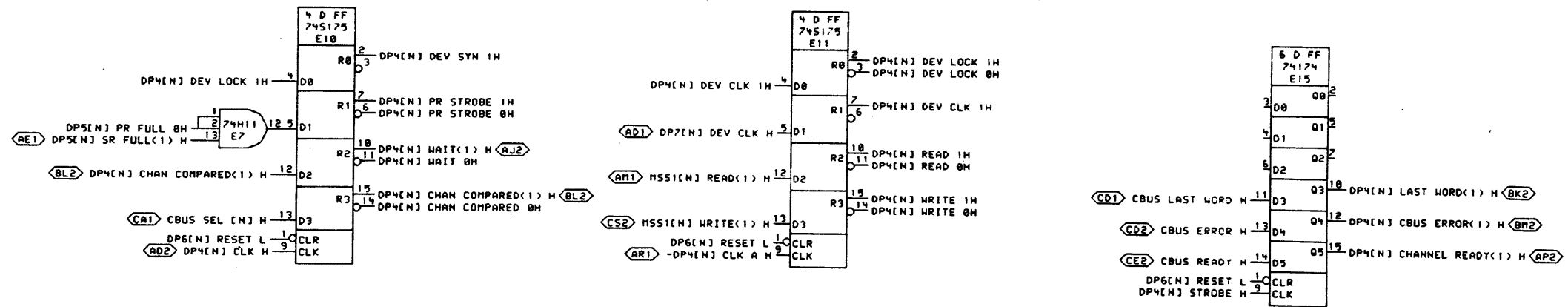


SHEET 3 OF 8

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	ENG	DATE	TITLE:
	23-AUG-78	Brown	11-NOV-77	MASSBUS CONTROL CBUS INTERFACE
MODULE: <M8556>DP3PR.DRV		DATE	BOARD LOCATION:	
FIRST USED ON OPTION MODEL: RH20		28-AUG-78 16:28	1 OF 1	
SIZE	CODE	NUMBER	REV.	
D	CS	M8556-0-DP3	B	

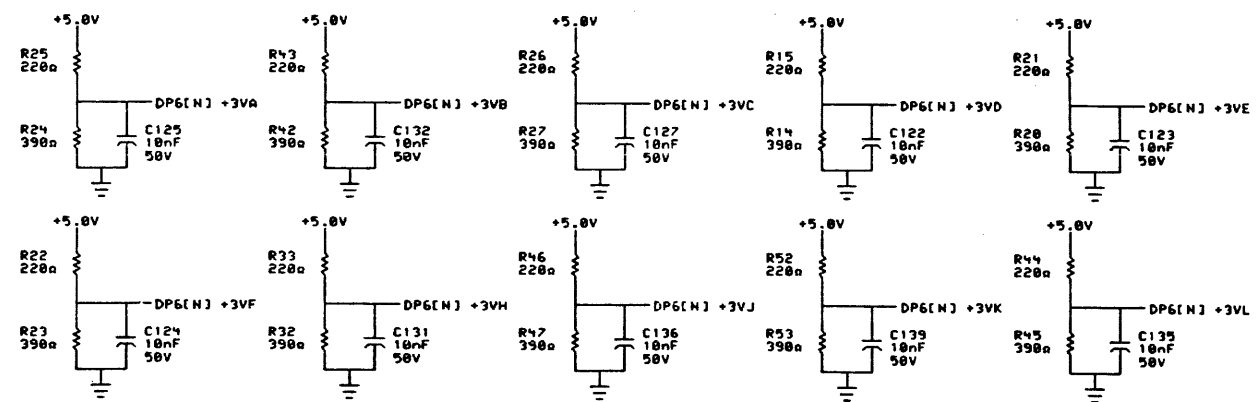
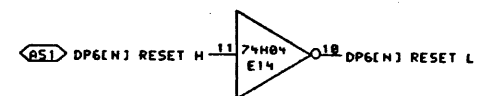
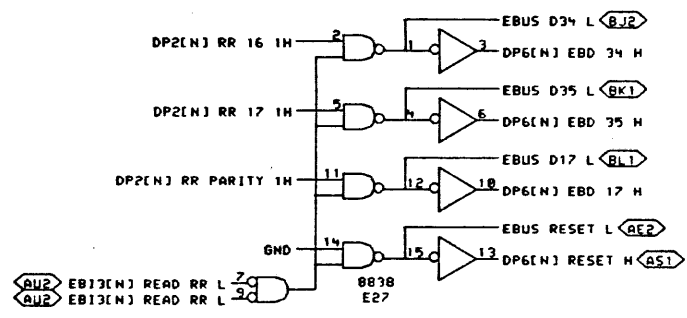
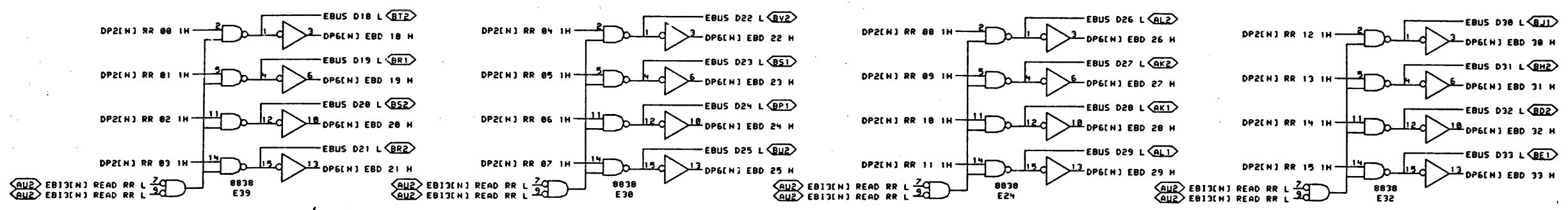


== NOTE ONE:
 I DP4[N] CLK H (AXXD2) MUST BE DESKEWED WITH THE CHANNEL (TIME ZERO 009K1) AND CPU MBOX CLOCK (D33P1). REFER TO THE RH20 SERVICE AND INSTALLATION MANUAL FOR THE ADJUSTMENT PROCEDURE.

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REVISIONS	CHK	CHANGE NO.	REV
1	BOWEN	1	1

digital	DATE	17-MAY-79	EMB.	TOM BOWEN	DATE	13-NOV-78	TITLE	MASBUS CONTROL
	CHK'D	M. NORWAND	DATE	13-NOV-78	BOARD LOCATION	1 OF 1	NUMBER	M8556-0-DP4
PS1(BOWEN)DP4PR.DRW		17-MAY-79	13:48	NEXT HIGHER ASSEMBLY	D	CS	REV.	E
FIRST USED ON OPTION/MODEL:		RH20		D-DD-M8556-0				

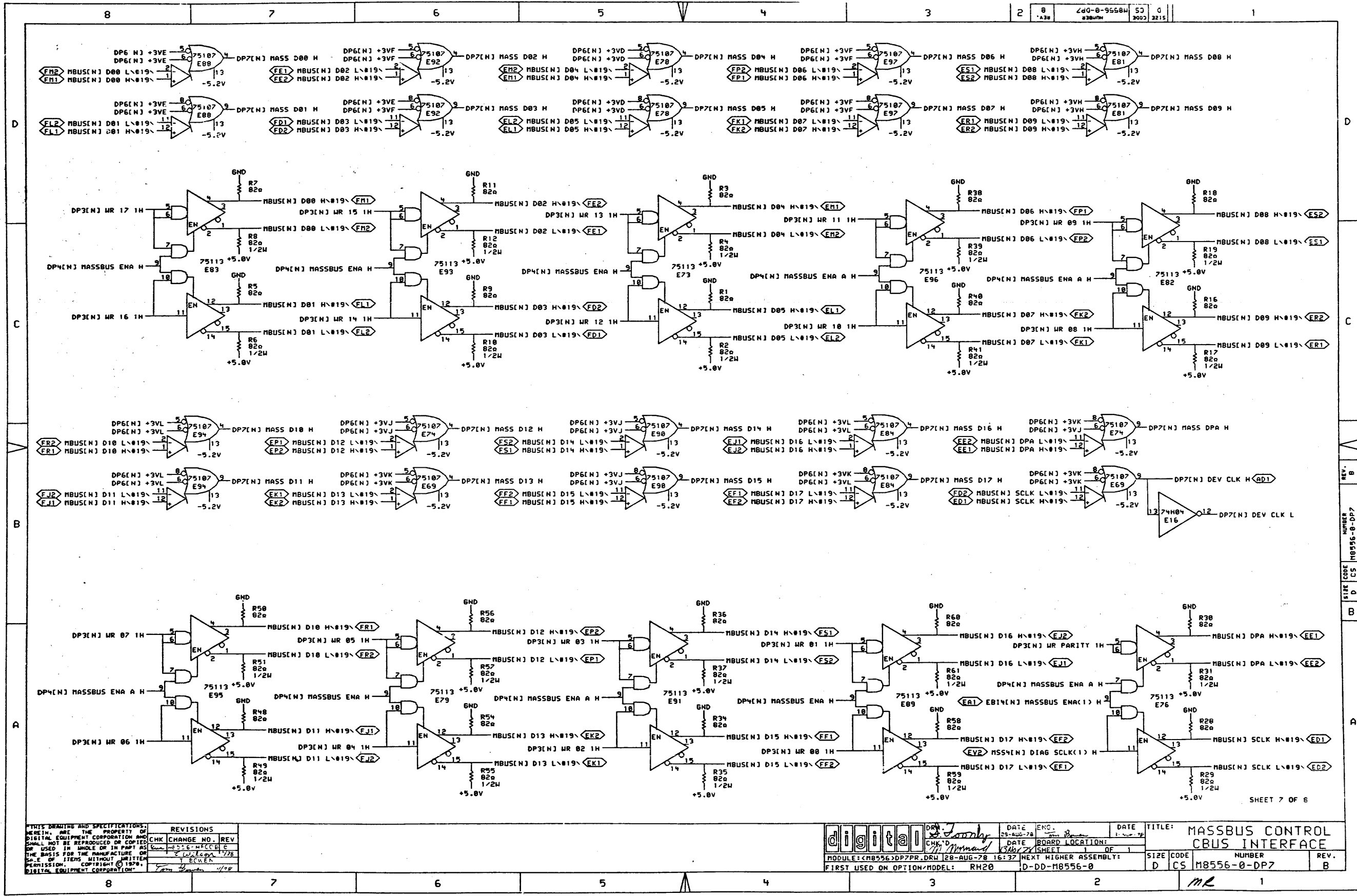


SHEET 6 OF 8

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REVISIONS		
CHK	CHANGE NO.	REV
EW	1	A
EW	2	B
EW	3	C
EW	4	D

digital	DATE	ENG.	DATE	TITLE:
	28-AUG-78	J. J. [Signature]	1-NOV-78	MASSBUS CONTROL CBUS INTERFACE
MODULE:	DATE	BOARD LOCATION:	SIZE	CODE
M8556-DP6PR.DRW	28-AUG-78 16:35	1	D	CS
FIRST USED ON OPTION/MODEL:	RH20	NEXT HIGHER ASSEMBLY:	NUMBER	REV.
	D-DD-M8556-0		M8556-0-DP6	A



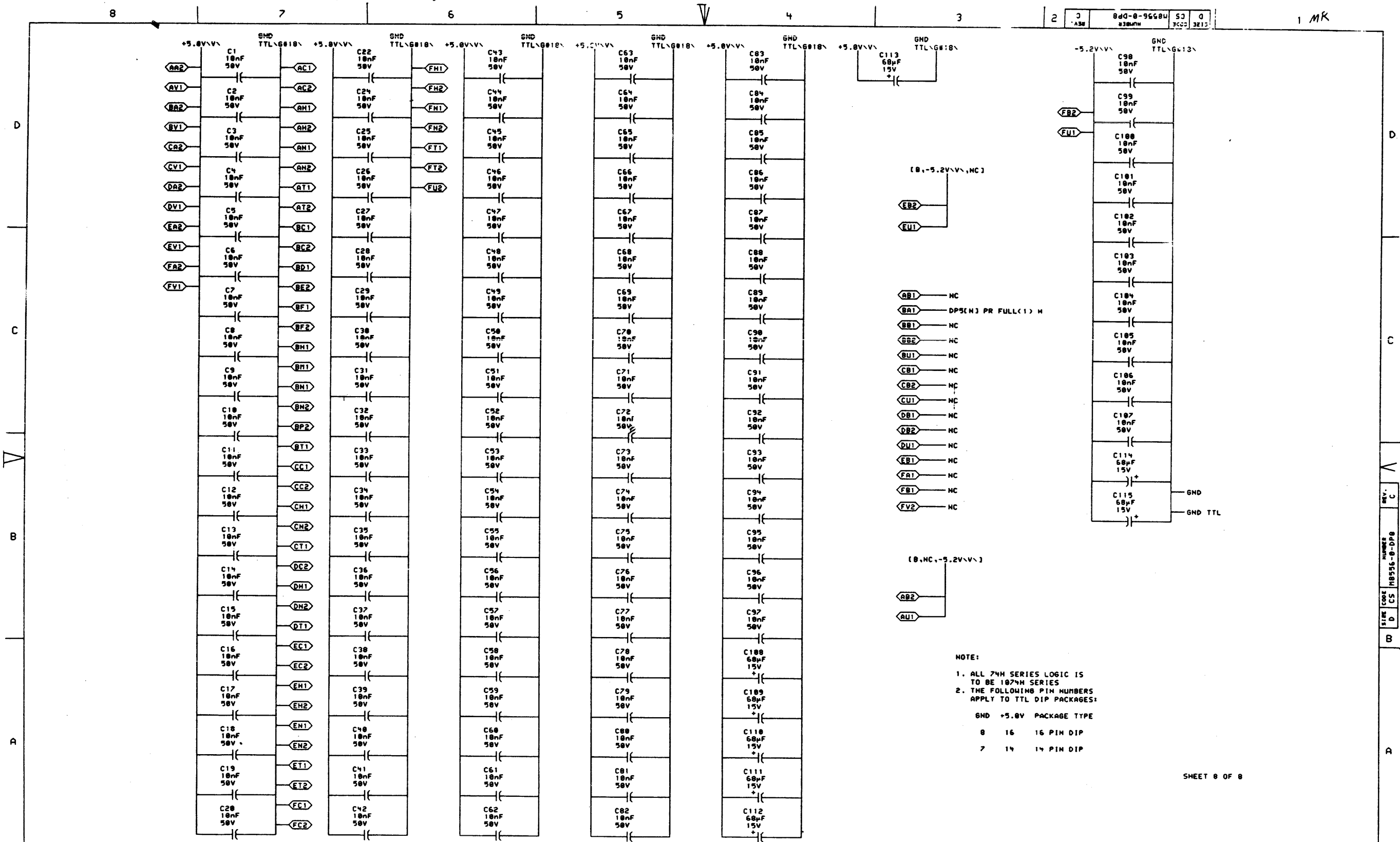
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REV.	DATE	BY	CHK'D	DATE
1	8-28-78	J. J. [unclear]	[unclear]	8-28-78
2	8-28-78	M. J. [unclear]	[unclear]	8-28-78

REV.	DATE	BY	CHK'D	DATE
1	8-28-78	J. J. [unclear]	[unclear]	8-28-78
2	8-28-78	M. J. [unclear]	[unclear]	8-28-78

digital	DATE: 8-28-78	ENC.:	DATE:	TITLE: MASSBUS CONTROL CBUS INTERFACE
CHK'D: M. J. [unclear]	DATE: 8-28-78	BOARD LOCATION:	1 OF 1	SIZE: D
MODULE: M8556 DP7PR.DRW	28-AUG-78 16:37	NEXT HIGHER ASSEMBLY:		NUMBER: M8556-0-DP7
FIRST USED ON OPTION/MODEL: RH20		D-DD-M8556-0		REV.:

REV. B
 SIZE CODE CS M8556-0-DP7



NOTE:
 1. ALL 74H SERIES LOGIC IS TO BE 1074H SERIES
 2. THE FOLLOWING PIN NUMBERS APPLY TO TTL DIP PACKAGES:

GND	+5.0V	PACKAGE TYPE
8	16	16 PIN DIP
7	14	14 PIN DIP

SHEET 8 OF 8

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REVISIONS	CHK	CHANGE NO.	REV
1	BOUEN	1	1

digital	DATE	17-MAY-79	ENG.	T. BOWEN	DATE	13NOV78	TITLE:	POWER, GND. CAPS.
	CHK'D	M. NORMAND	DATE	13NOV78	SHEET	1	OF	1
PS1(BOWEN)DPBPR.DRW		117-MAY-79	14:35	NEXT HIGHER ASSEMBLY:	SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL:		RH20	0-DD-M8556-0		D	CS	M8556-0-DP8	C

REV. C
 NUMBER M8556-0-DP8
 SIZE CODE D CS

A

1 MK

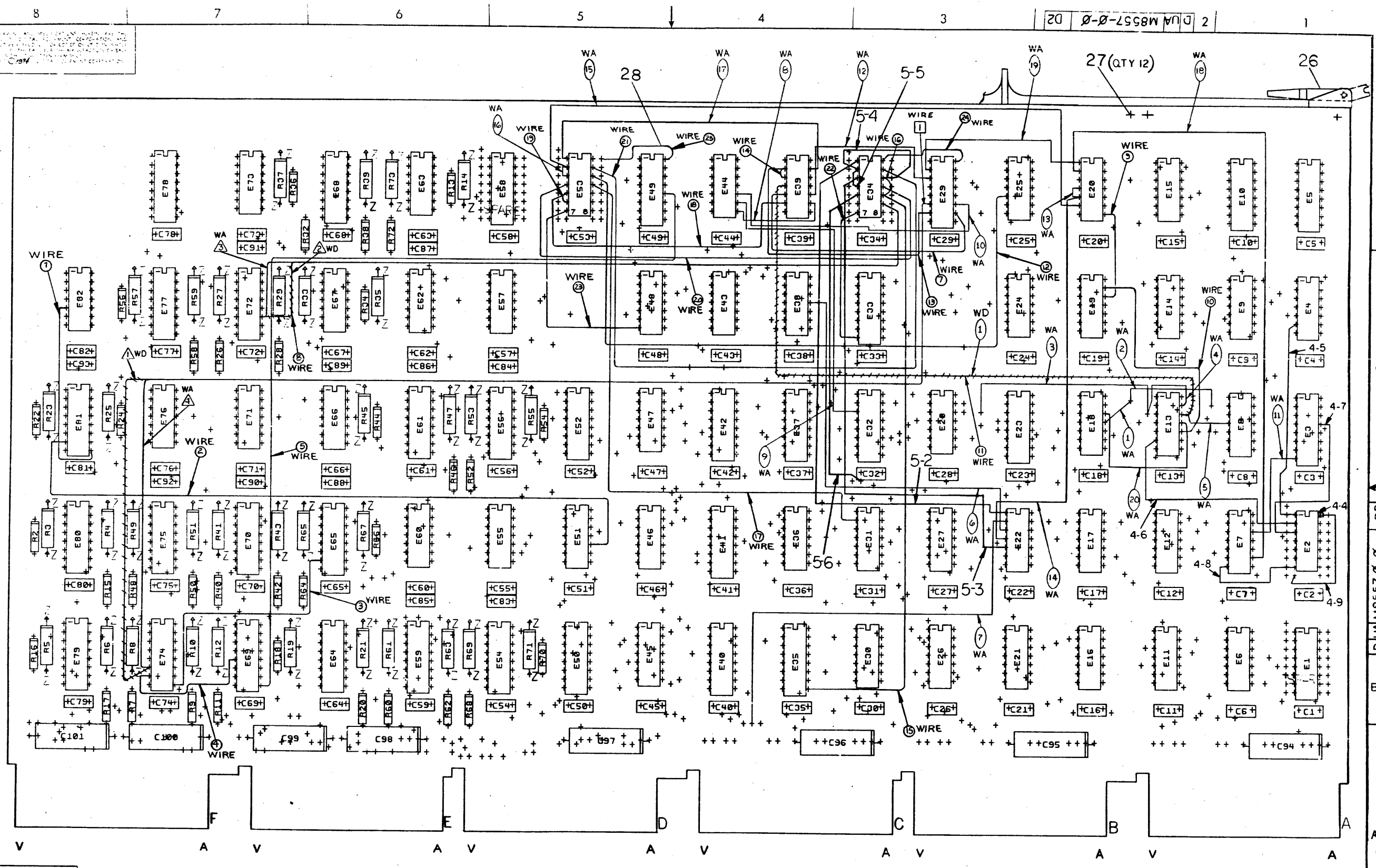
1 MK

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS							
FILE: ORIGINAL LAYOUT											
ECO NUMBER				-	1	2	3	4	5	6	7
M8557 MODULE REVISION				A	B	C	C	D	D1	D1	D1
D-UA-M8557-0-0	6		MASSBUS CONTROL MBUS INTERFACE	-	A	B	C	D	D2	D2	D2
D-CS-M8557-0-MSS1	1		MASSBUS CONTROL MBUS INTERFACE	-	A	B	B	B	B1	B1	B1
D-CS-M8557-0-MSS2	1		MASSBUS CONTROL MBUS INTERFACE	-	A	B	B	C	C1	C1	C1
D-CS-M8557-0-MSS3	1		MASSBUS CONTROL MBUS INTERFACE	-	A	B	B	B	B2	B2	B2
D-CS-M8557-0-MSS4	1		MASSBUS CONTROL MBUS INTERFACE	-	A	B	B	B	B1	B1	B1
D-CS-M8557-0-MSS5	1		MBSSBUS CONTROL MBUS INTERFACE	-	A	B	B	B	B1	B1	B1
D-CS-M8557-0-MSS6	1		MASSBUS CONTROL MBUS INTERFACE	-	-	A	A	A	A1	A1	A1
D-CS-M8557-0-MSS7	1		MASSBUS CONTROL MBUS INTERFACE	-	-	A	A	A	A1	A1	A1
D-CS-M8557-0-MSS8	1		POWER, GND. CAPS.	-	-	A	A	A	A1	A1	A1
D-AH-M8557-0-5	4		DRILL & ETCH DRAWING	A	A	A	A	A	A1	A1	A1
		5010633	ETCH CIRCUIT BOARD	B	B	B	B	B	B	B	B
K-CO-M8557-0-4	1		CALDEC DATA BASE	B	B	B	B	B	B	B	B
P00-M8557-00			PROCESS SHEET (REF ONLY)								
<p>NOTES: ECO #5 IS A REWORK OF THE ORIGINAL BOARD AND A RELAYOUT, THEREFORE THE MODULE REV WENT TO D1 AND THE SUPPORTING DOCUMENTATION FOR THE REWORK WENT TO D2</p>											

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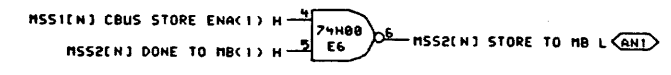
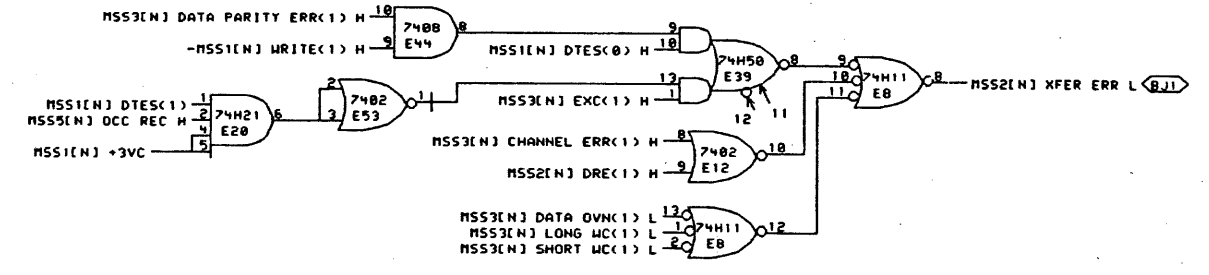
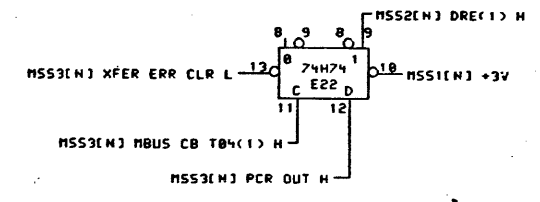
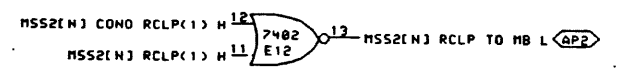
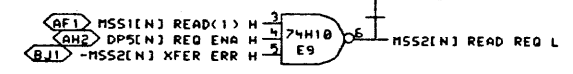
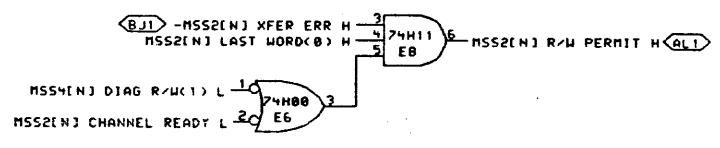
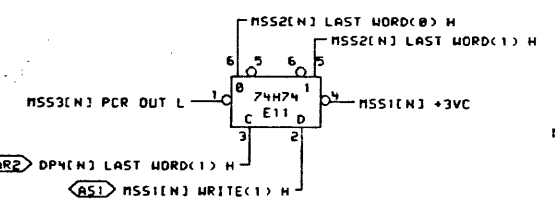
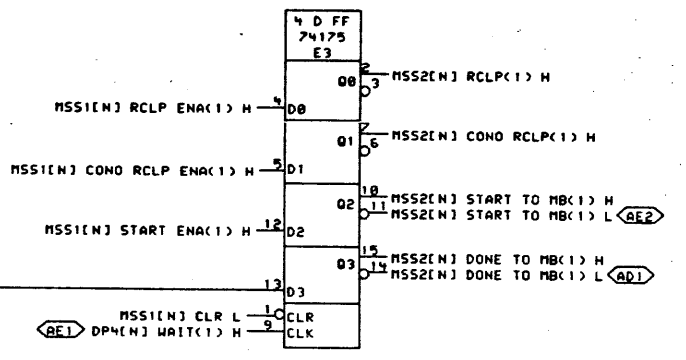
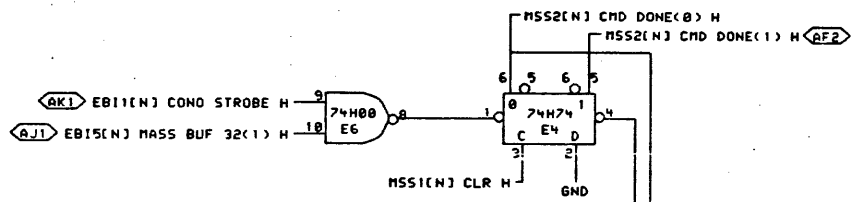
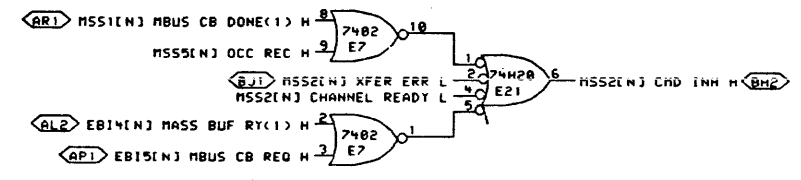
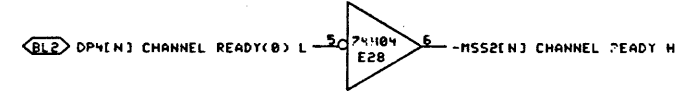
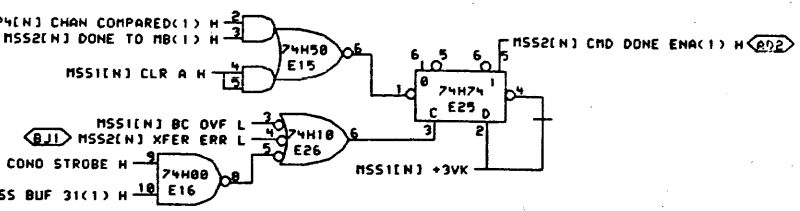
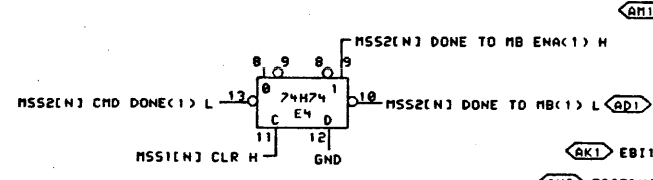
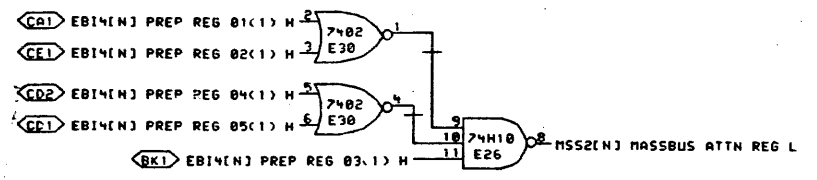
REVISIONS		
CHK	CHANGE NO.	REV.

	DATE: 04-MAR-81	ENG: T. SCWEN	DATE: 12-MAR-81	TITLE: MASS CONTROL MBUS INTERFACE
	CHK'D: M. NORMAND	DATE: 04-MAR-81	BOARD LOCATION: N/A	
DSK: 8557DD.T2P14.37	04-MAR-81 07:17	NEXT HIGHER ASSEMBLY:	SIZE: D DD	CODE: M8557-0
FIRST USED ON OPTION/MODEL: RH20	NONE		NUMBER: 1	REV: H



TITLE MASSBUS CONTROL MBUS INTERFACE		SIZE CODEL	NUMBER	REV
SCALE NONE		SHEET 2 OF 6	DUA M8557-0-0	D2
		DIST		

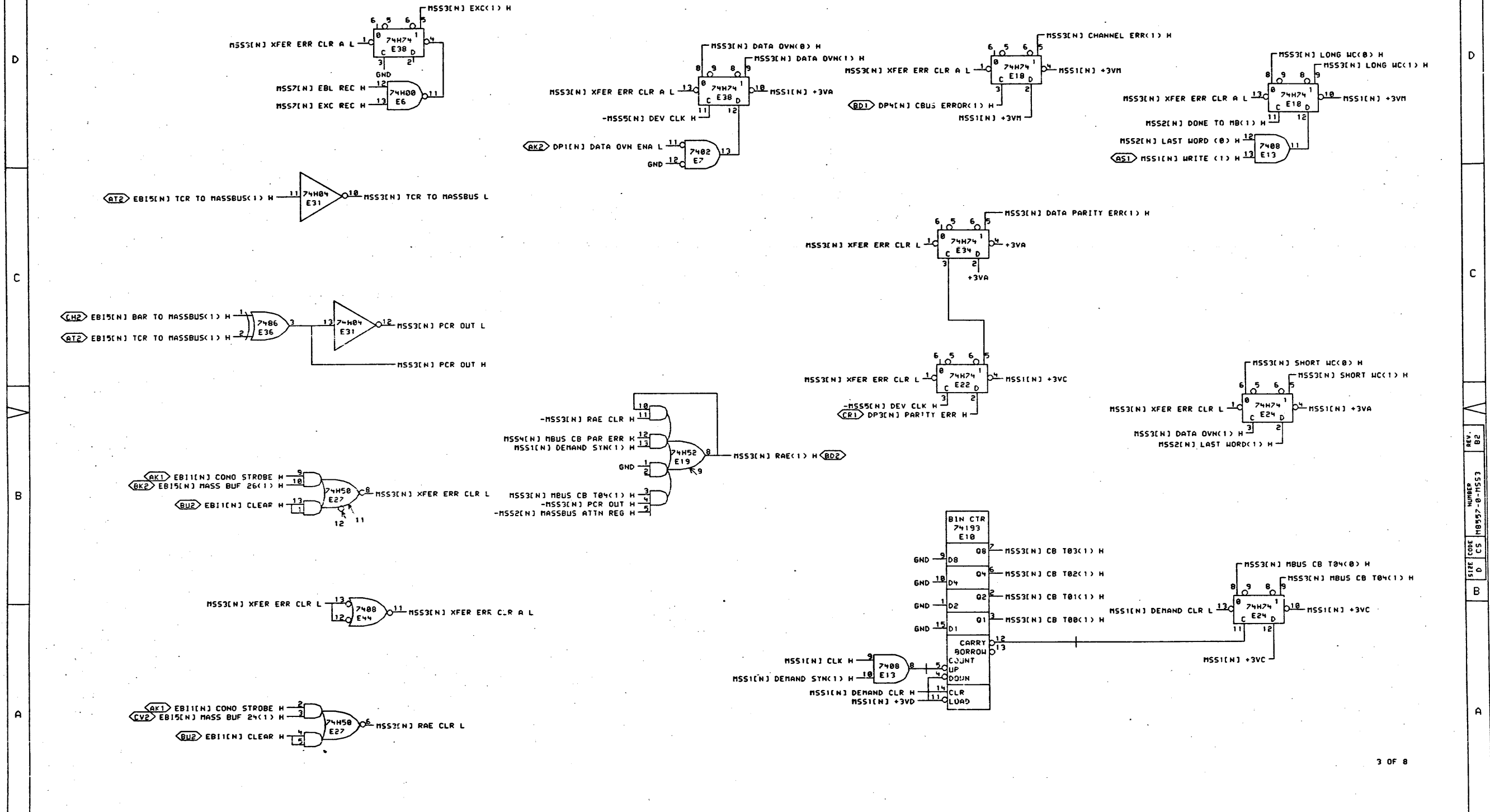
MR



REVISIONS

CMK	CHANGE NO.	REV

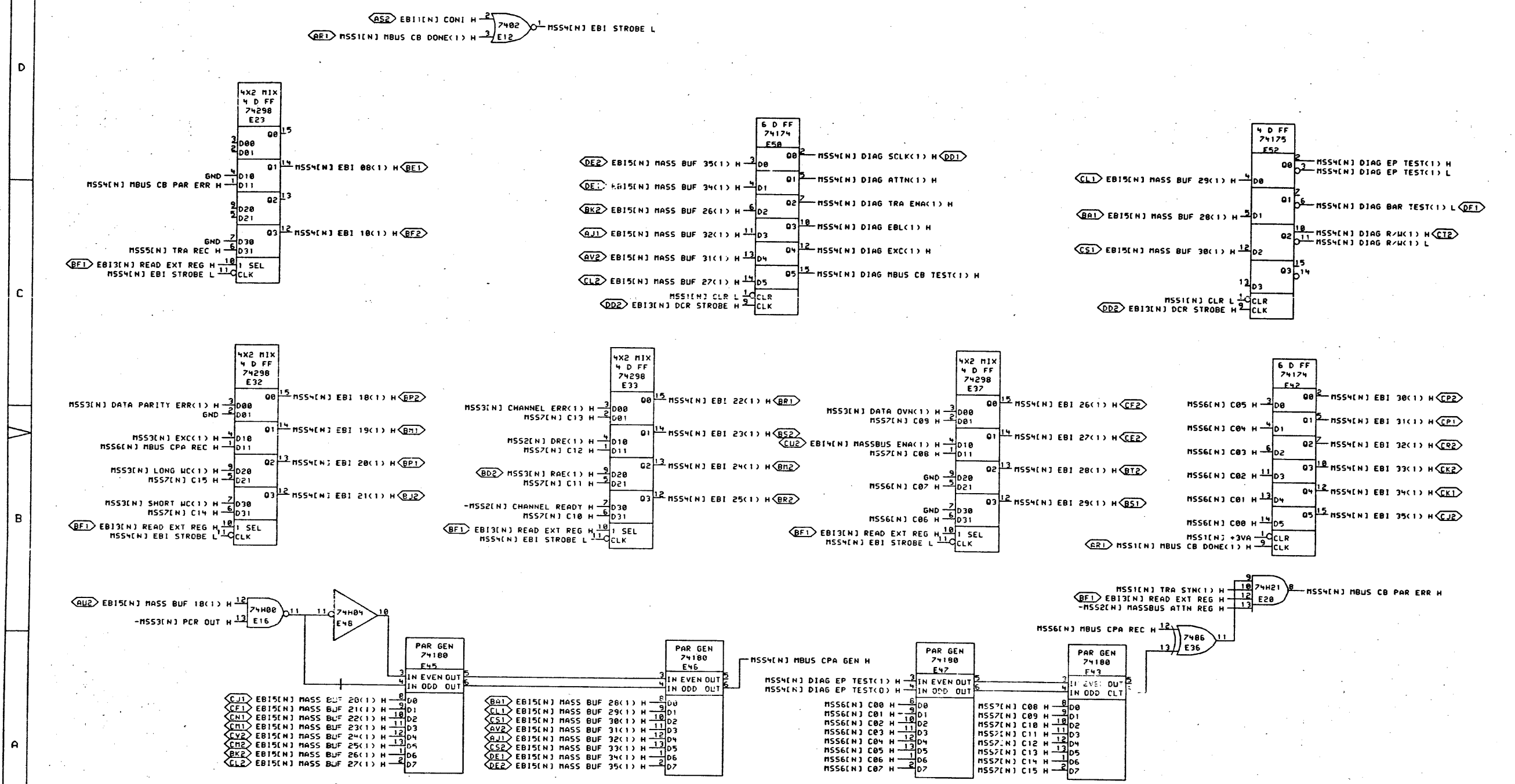
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DRAWN BY: J. J. CARPENITO		DATE: 12AUG75		SHEET 1 OF 1	
MODULE: M8557-MSS2.DRW 105-SEP-78 10:34			NEXT HIGHER ASSEMBLY:		SIZE: D
FIRST USED ON OPTION MODEL: RH20			D-DD-M8557-0		CODE: CS
					NUMBER: M8557-0-MSS2
					REV: C1



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REV.	CHG	NO.	REV
1		1	1
2		2	2

digital DATE: 18-SEP-78 ENG: L. CARPENITO DATE: 12-AUG-75 BOARD LOCATION: SHEET 1 OF 1	TITLE: MASSBUS CONTROL MBUS INTERFACE
	MODULE: <M8557>M853.DRW 118-SEP-78 13:51 FIRST USED ON OPTION/MODEL: RH20 NE T HIGHER ASSEMBLY: D-DD-M8557-0
SIZE: D CODE: CS NUMBER: M8557-0-M853	REV.: B2



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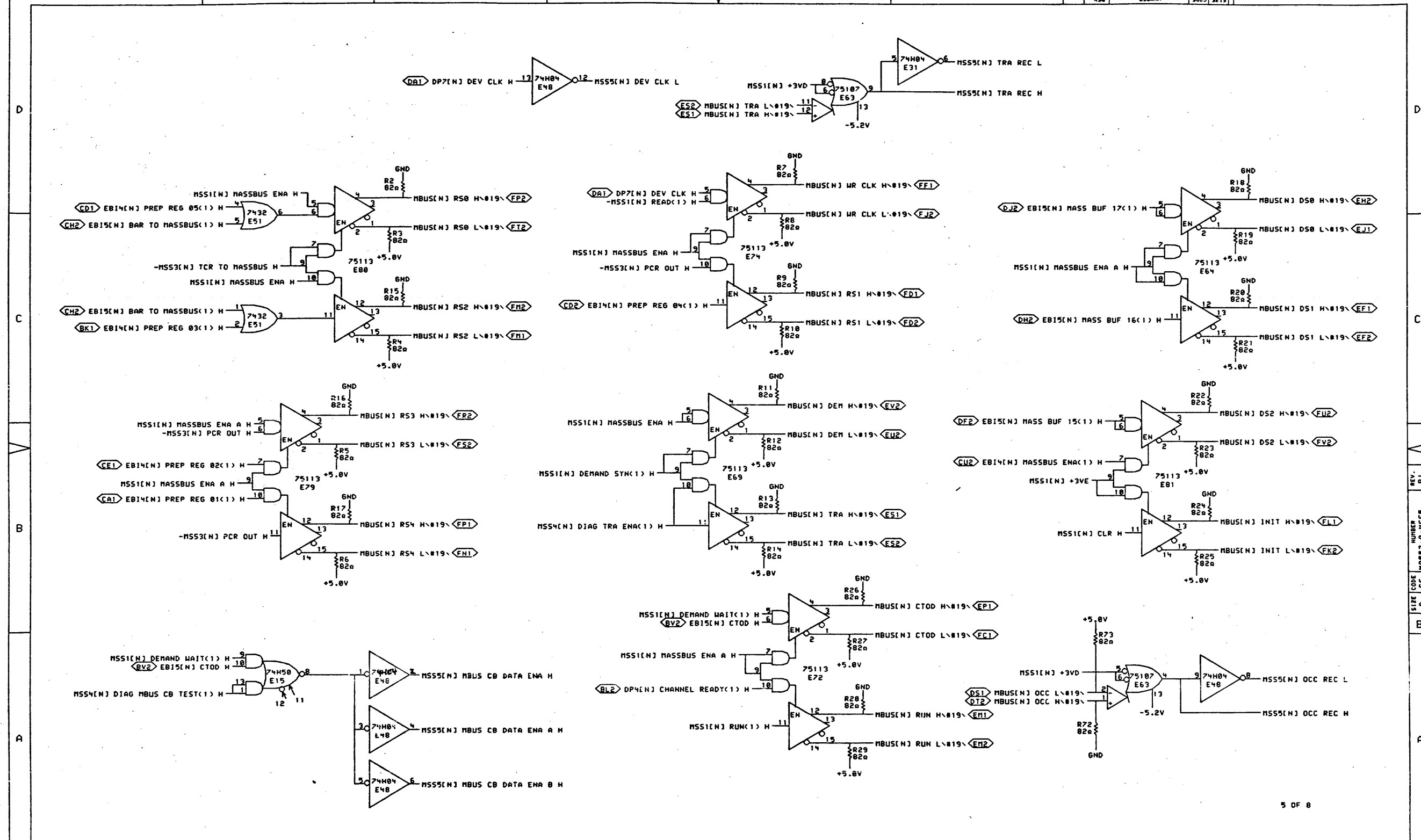
CHK	CHANGE NO.	REV

digital *Don Lowmy*

DATE	ENG.	DATE	TITLE:
05-SEP-78	L. CARPENITO	12AUG75	MASSBUS CONTROL
DATE	BOARD LOCATION:	SHEET	OF
12AUG75		1	1
MODULE: <M8557>MSS4.DRW	DATE	NEXT HIGHER ASSEMBLY:	SIZE
05-SEP-78 10:37		D-DD-M8557-0	CODE
FIRST USED ON OPTION MODEL: RH20			NUMBER
			REV.
			B1

me

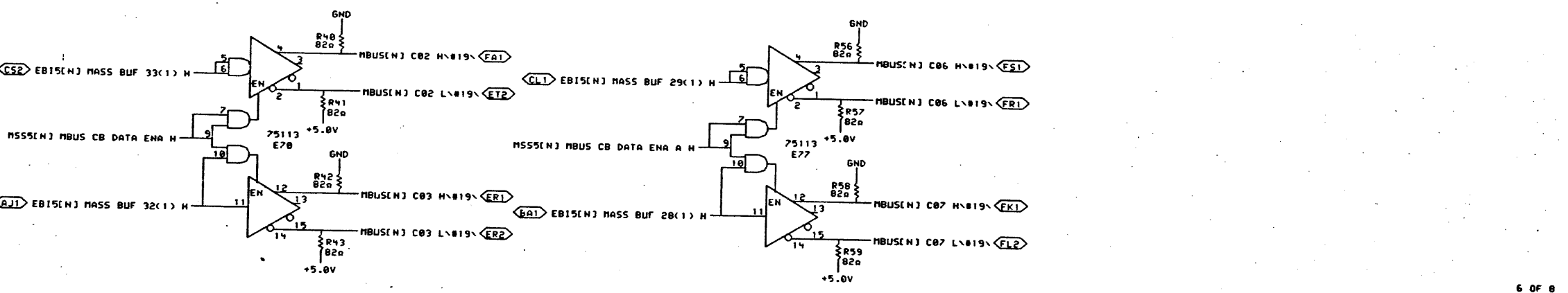
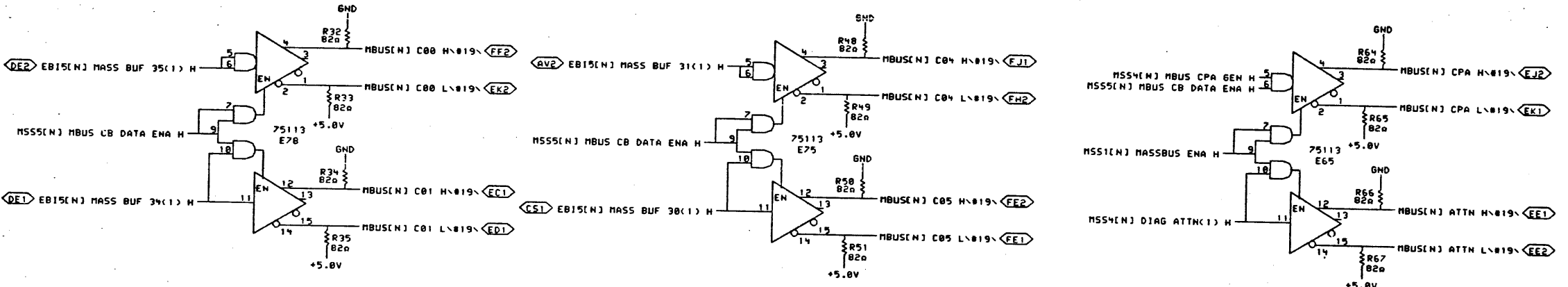
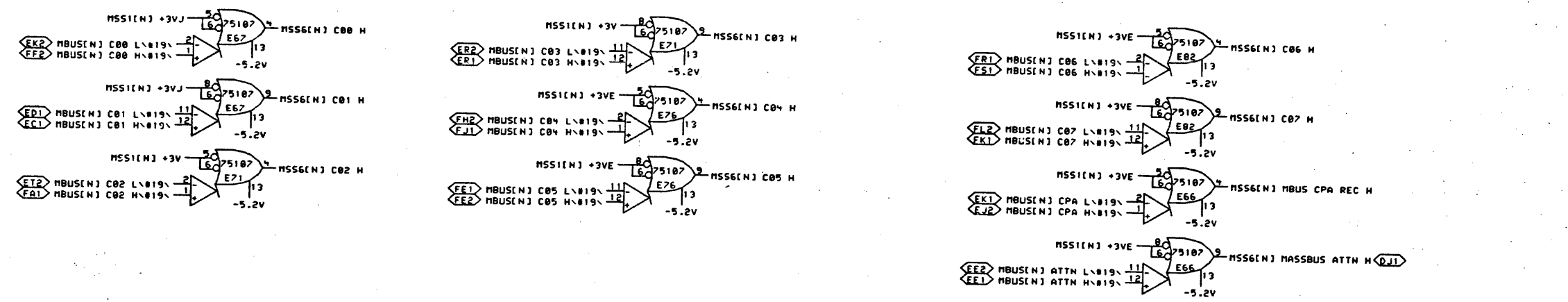
REV. B1
NUMBER MB557-0-MSS4
SITE CODE D CS
D



REVISIONS	
CHK	CHANGE NO. REV.
1	10/25/78 MROOS/B1
2	11/17/78 BOWEN

DATE	ENG.	DATE	TITLE:
05-SEP-78	L. CARPENITO	12AUG75	MASSBUS CONTROL MBUS INTERFACE
DATE	BOARD LOCATION:	OF	
12AUG75		1	
MODULE:	DATE	NEXT HIGHER ASSEMBLY:	SIZE
M8557-MSS5-DR4	05-SEP-78 10:38		D
FIRST USED ON OPTION/MODEL:			CS
RH20			M8557-0-MSS5
			REV. B1

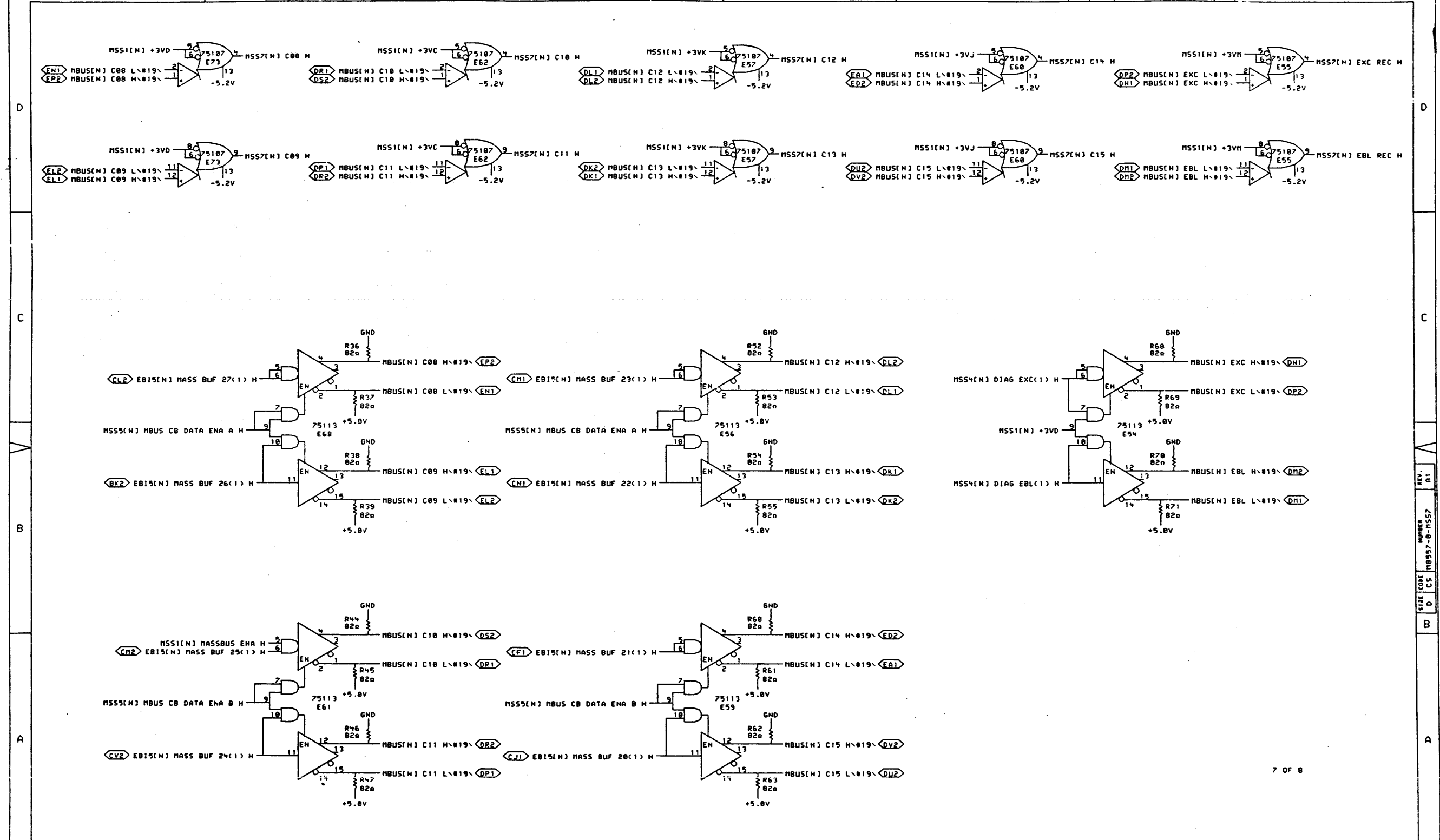
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DATE	BOARD LOCATION:	OF	
12AUG75		1	
MODULE:	DATE	NEXT HIGHER ASSEMBLY:	SIZE
M8557-MSS5-DR4	05-SEP-78 10:38		D
FIRST USED ON OPTION/MODEL:			CS
RH20			M8557-0-MSS5
			REV. B1



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REVISIONS	
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MB557	NR005 A1
Y. BOWEN	

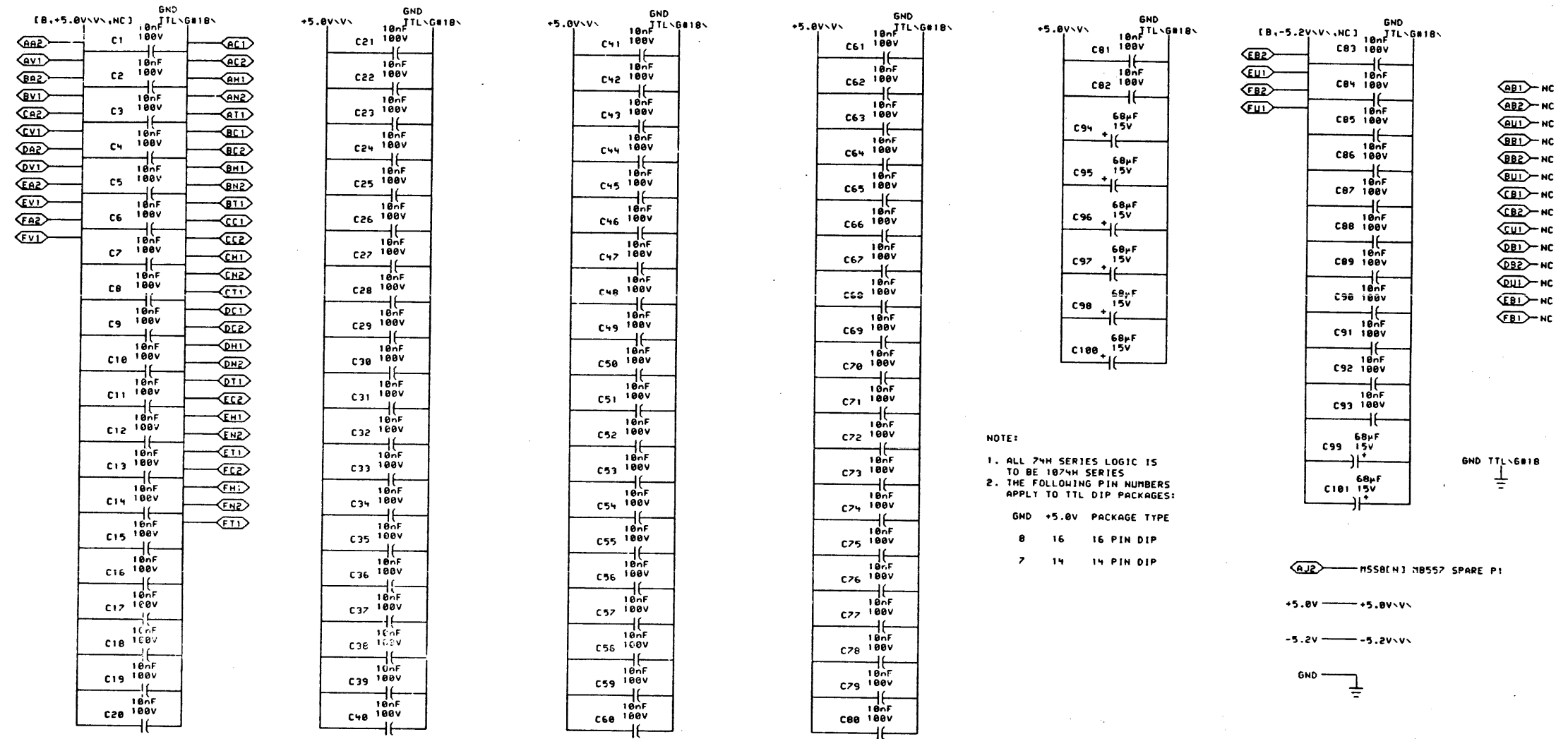
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	DATE	12AUG75	DATE	12AUG75	SHEET	1 OF 1	BOARD LOCATION:	MBUS INTERFACE	
MODULE:	MB557	M556	DRW	05-SEP-78	10:48	NEXT HIGHER ASSEMBLY:	D-DD-M8557-0	SIZE CODE	D CS
FIRST USED ON OPTION/MODEL:	RH20							NUMBER	M8557-0-M556
								REV.	A1



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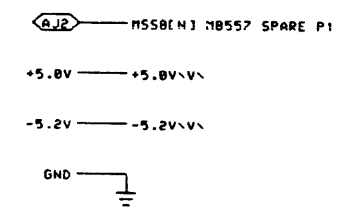
REV.	DESCRIPTION	DATE
1	INITIAL DESIGN	10/1/78
2	REVISIONS	
3	CHG. NO. REV.	

DATE: 09-SEP-78	ENG: L. CARPENITO	DATE: 12AUG75	TITLE: MASSBUS CONTROL MBUS INTERFACE
DATE: 12AUG75	BOARD LOCATION:	SHEET: 1 OF 1	SIZE CODE: D CS
MODULE: MB557-MSS7-DRA	DATE: 105-SEP-78 10:39	NEXT HIGHER ASSEMBLY: D-DD-MB557-0	NUMBER: MB557-0-MSS7
FIRST USED ON OPTION/MODEL: RH20			REV. A1



NOTE:
 1. ALL 74H SERIES LOGIC IS TO BE 1074H SERIES
 2. THE FOLLOWING PIN NUMBERS APPLY TO TTL DIP PACKAGES:

GND	+5.0V	PACKAGE TYPE
8	16	16 PIN DIP
7	14	14 PIN DIP



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REVISIONS
CHK CHANGE NO. M557-MR005 A1
DATE 12/28/77
BY T. BOWEN

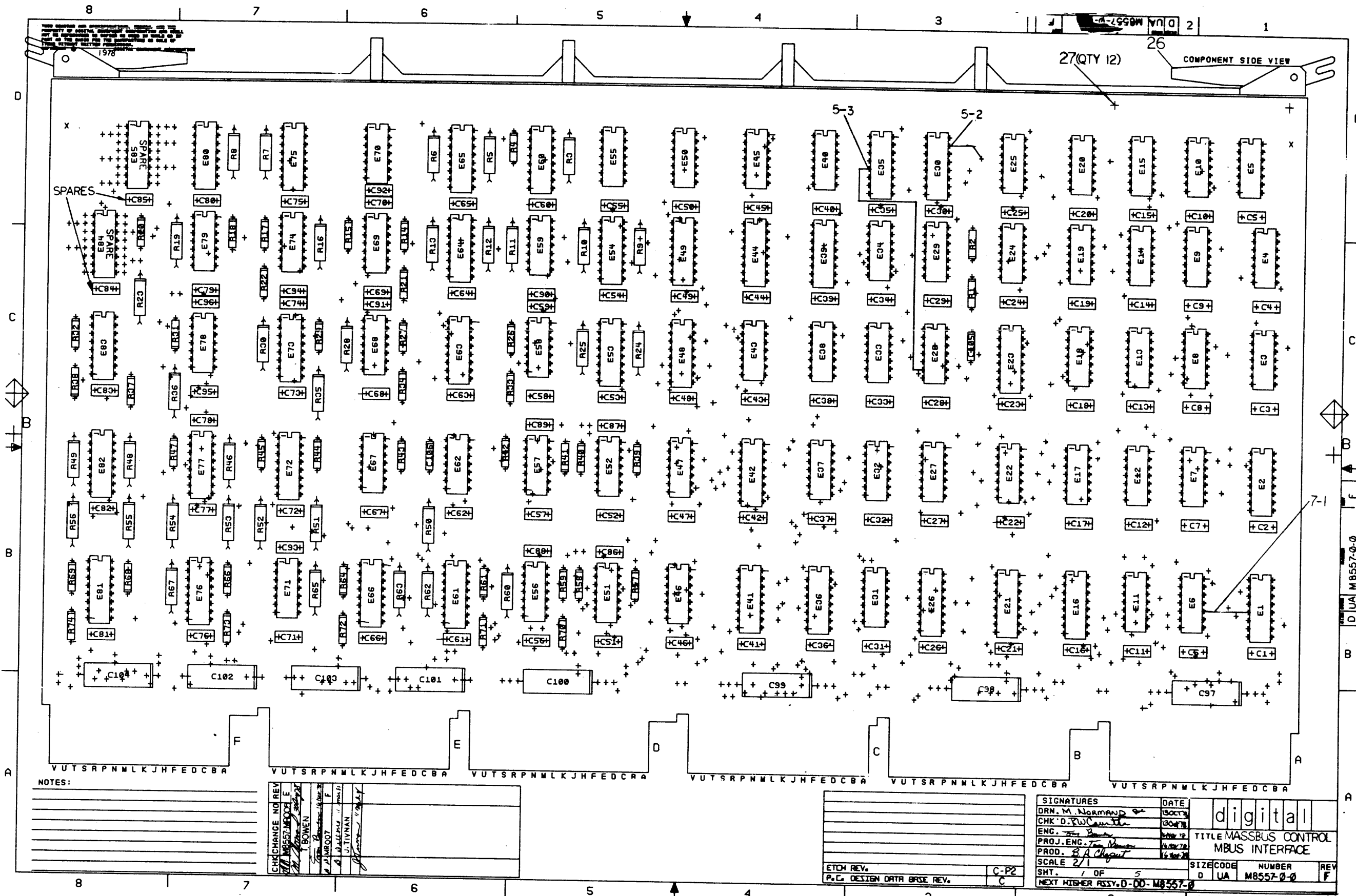
digital	DATE 07-SEP-76	ENG. L. CARPENITO	DATE 12AUG75	TITLE: POWER, GND. CAPS.
	CHK'D L. CARPENITO	DATE 12AUG75	BOARD LOCATION: 1 OF 1	
MODULE: M557-M558 DRW 107-SEP-78 12:41		NEXT HIGHER ASSEMBLY: D-DD-M557-0		SIZE CODE D CS
FIRST USED ON OPTION/MODEL: RH20		NUMBER M557-0-M558		REV. A1

8	7	6	5	4	3	2	1	V.R		
							H REV.	D DD	D DD	D DD
							0-25584	300	3215	
DRAWING NUMBER				PAGE	PART NO.	DESCRIPTION	REVISIONS			
				FILE: RELAYOUT						
				ECO NUMBER			5	6	7	
				M8557 MODULE REVISION			E	E	F	
D-UA-M8557-0-0	5			E	E	F				
K-PL-M8557-0-DBP	2			E	E	F				
D-CS-M8557-0-MSS1	1			C	D	E				
D-CS-M8557-0-MSS2	1			D	D	E				
D-CS-M8557-0-MSS3	1			C	C	C				
D-CS-M8557-0-MSS4	1			C	C	C				
D-CS-M8557-0-MSS5	1			C	C	C				
D-CS-M8557-0-MSS6	1			B	B	B				
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D-CS-M8557-0-MSS8	1			B	B	B				
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K-PC-M8557-0-DBC	-	5010633			C	C	C			
P00-M8557-00	-			C	C	C				
NOTES:										

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRG. <i>W. Norvand</i>	DATE: 01-1988-01	ENG. BOWEN	DATE: 12 MAR 81	TITLE: MASS CONTROL MBUS INTERFACE
CHK'D	M. NORVAND	DATE: 12 MAR 81	BOARD LOCATION: N/A	SHEET: 2	OF: 2
DSK: 0557DD.T2PL(4,37) 104-1100-01 02117			NEXT HIGHER ASSEMBLY:	SIZE CODE: D DD	NUMBER: M8557-0
FIRST USED ON OPTION/MODEL: RH20			NONE	REV. H	



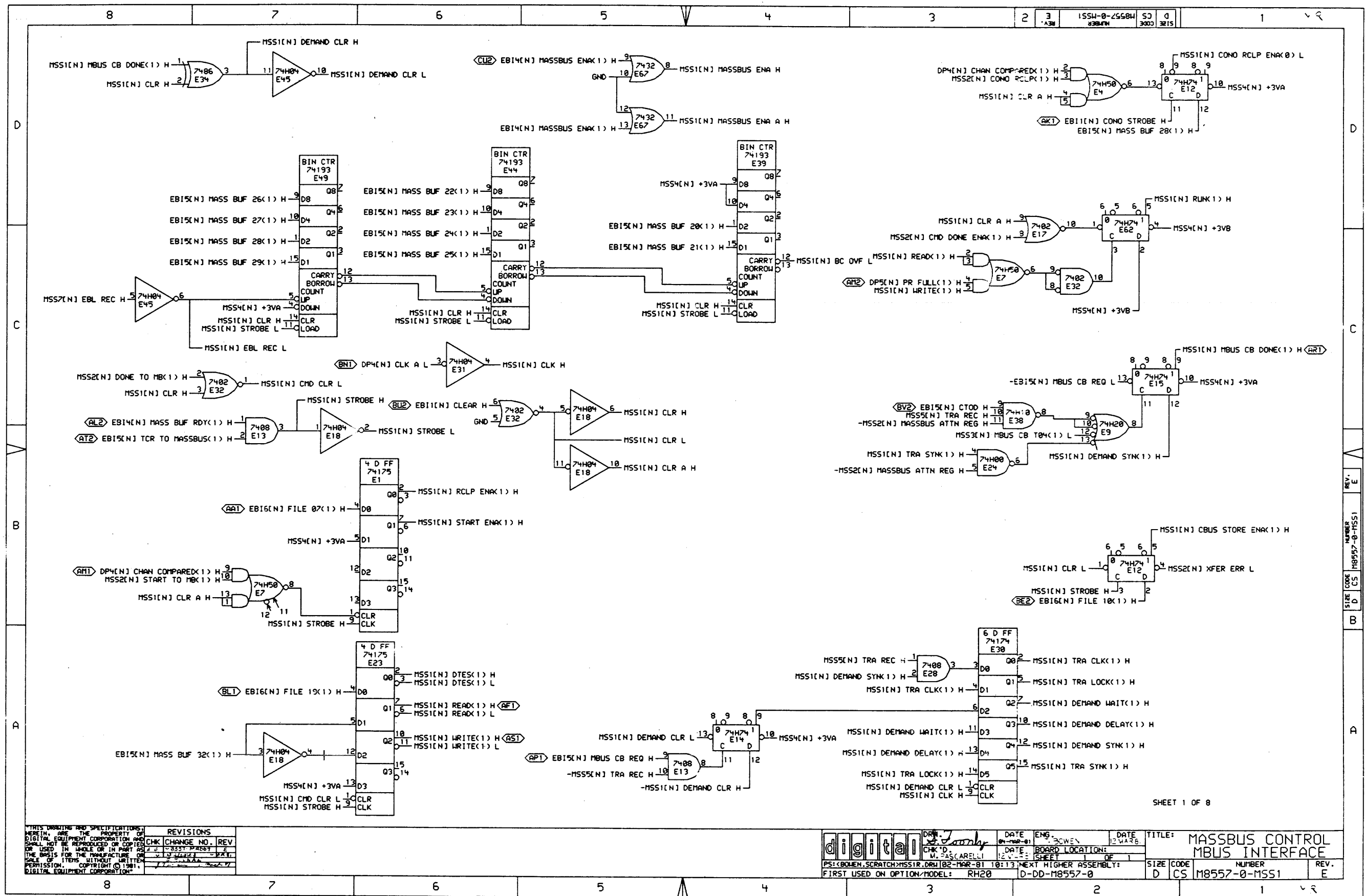
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3	1	1	11/14/78	B. J. CLUGET	
4	1	1	11/14/78	B. J. CLUGET	
5	1	1	11/14/78	B. J. CLUGET	
6	1	1	11/14/78	B. J. CLUGET	
7	1	1	11/14/78	B. J. CLUGET	
8	1	1	11/14/78	B. J. CLUGET	

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

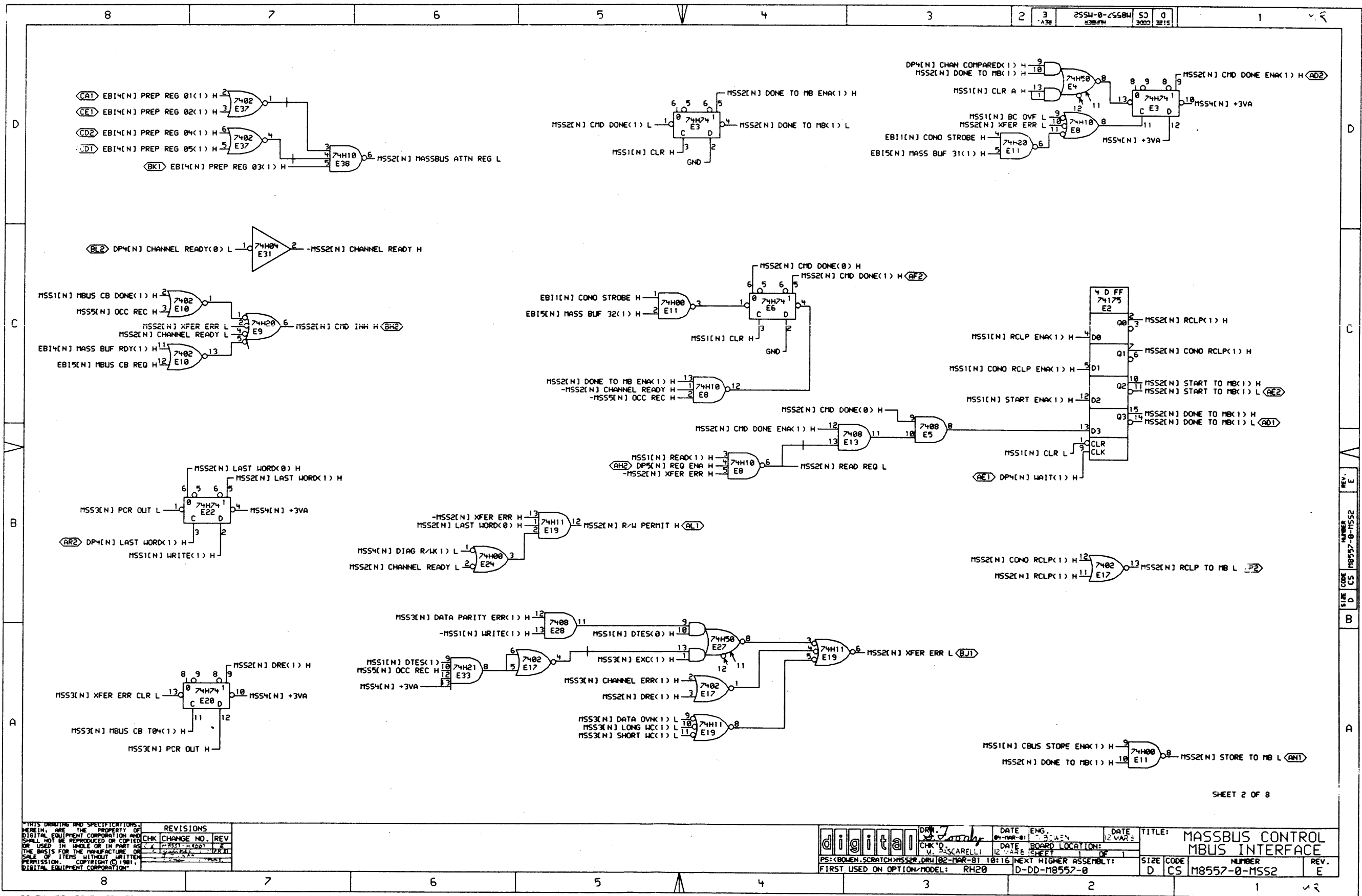
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CHK'D. D. W. CANTER		11/04/78
ENC. B. J. CLUGET		11/14/78
PROJ. ENG. B. J. CLUGET		11/14/78
SCALE 2/1		
SHT. 1 OF 5		
NEXT HIGHER ASSY. D-00-M8557-0		

digital	
TITLE MASSBUS CONTROL MBUS INTERFACE	
SIZE CODE	NUMBER
D U A	M8557-0-0
REV	F



REV	DESCRIPTION	DATE
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7	REVISION	04-13-82
8	REVISION	05-13-82
9	REVISION	06-13-82
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digital	DATE: 01-13-81	ENG: J. POWEN	DATE: 12-13-86	TITLE: MASSBUS CONTROL MBUS INTERFACE
CHK'D: M. PASCALELLI	DATE: 12-13-85	BOARD LOCATION: 1	SHEET: 1	OF: 1
PS: <BOJEN, SCRATCH> MSS1R.DRL	DATE: 10-13-81	NEXT HIGHER ASSEMBLY: D-DD-M8557-0	SIZE: D	CODE: CS
FIRST USED ON OPTION/MODEL: RH20			NUMBER: M8557-0-MSS1	REV: E

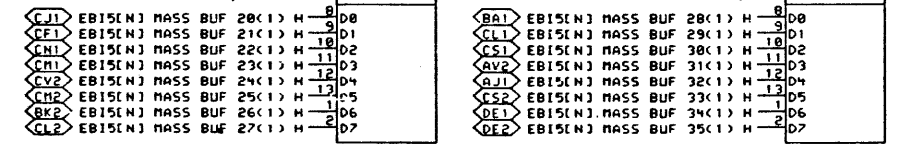
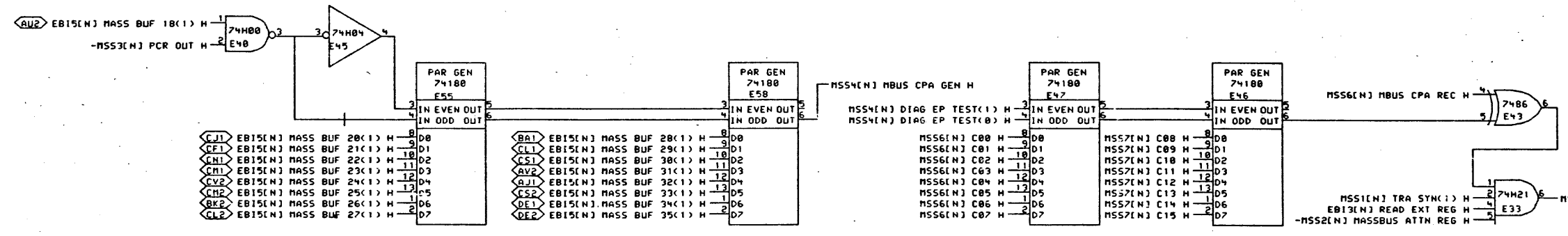
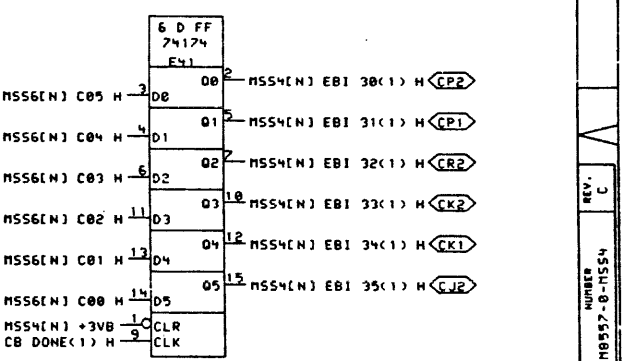
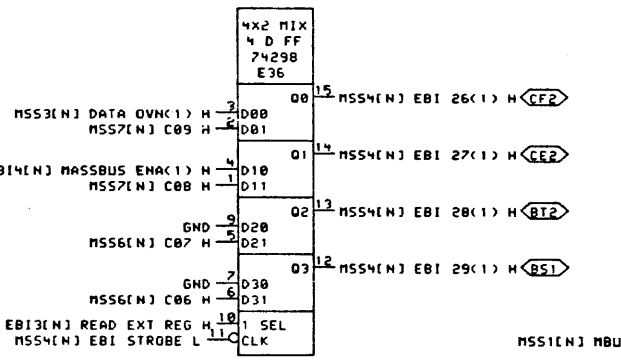
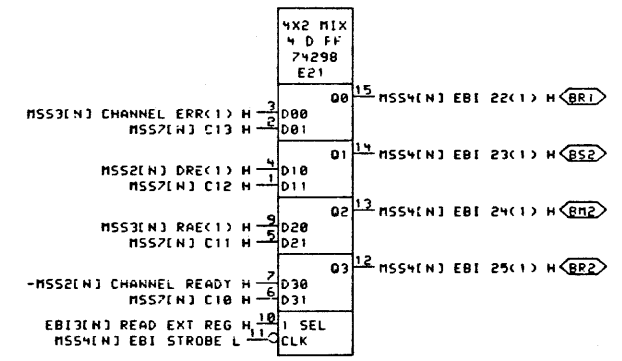
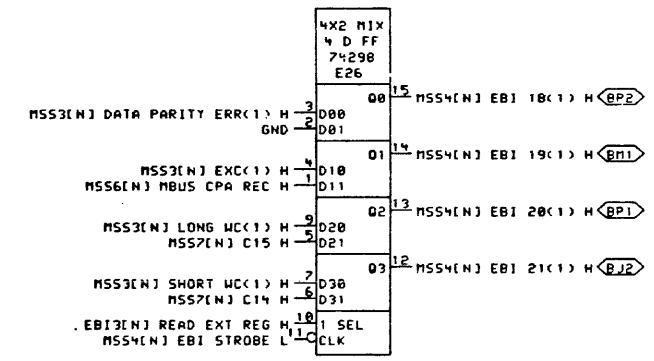
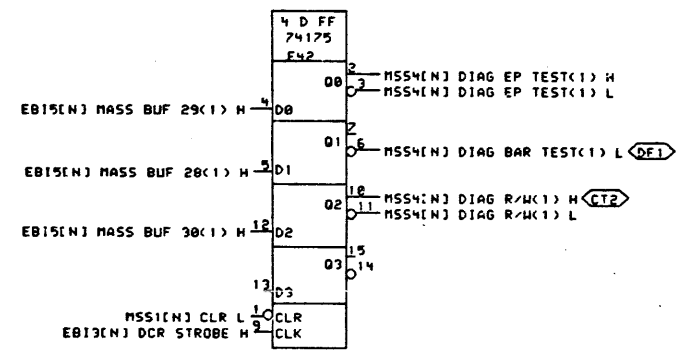
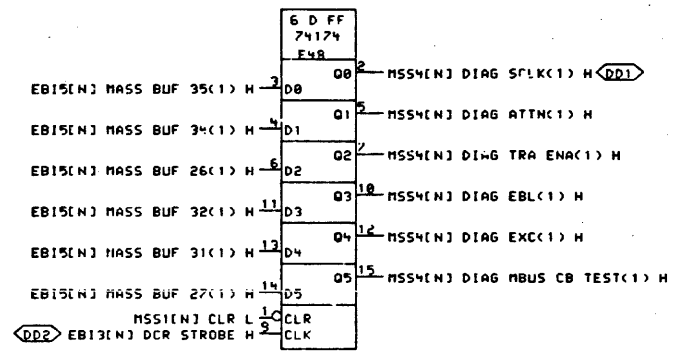
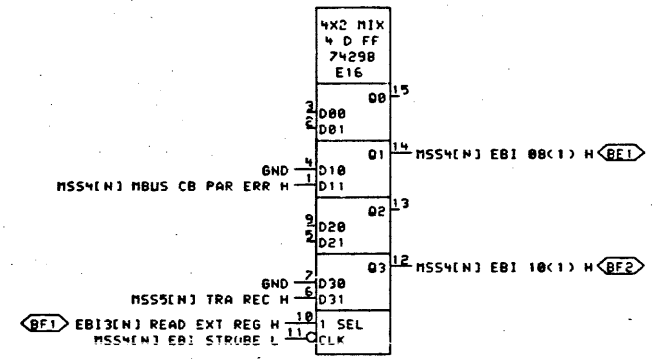
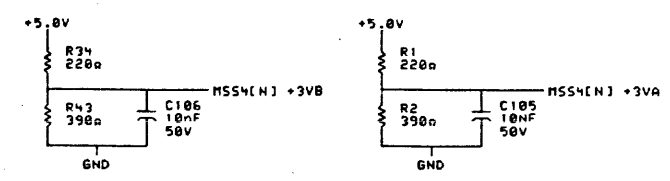
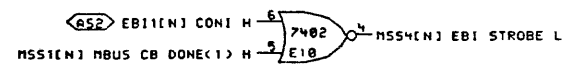


SHEET 2 OF 8

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REV.	DATE	BY	CHK	CHANGE NO.	REV.
1	01-11-81

digital	DATE ENG. 01-11-81	DATE 12 VAR 3	TITLE: MASSBUS CONTROL MBUS INTERFACE
DRN. J. PASCARELLI	DATE BOARD LOCATION: 12-12-81	SHEET 1 OF 1	SIZE CODE NUMBER REV. D CS M8557-0-MSS2 E
PS:(BOWEN,SCRATCH)MSS2R.DWL 02-MAR-81 10:16	NEXT HIGHER ASSEMBLY: D-DD-M8557-0		
FIRST USED ON OPTION/MODEL: RH20			

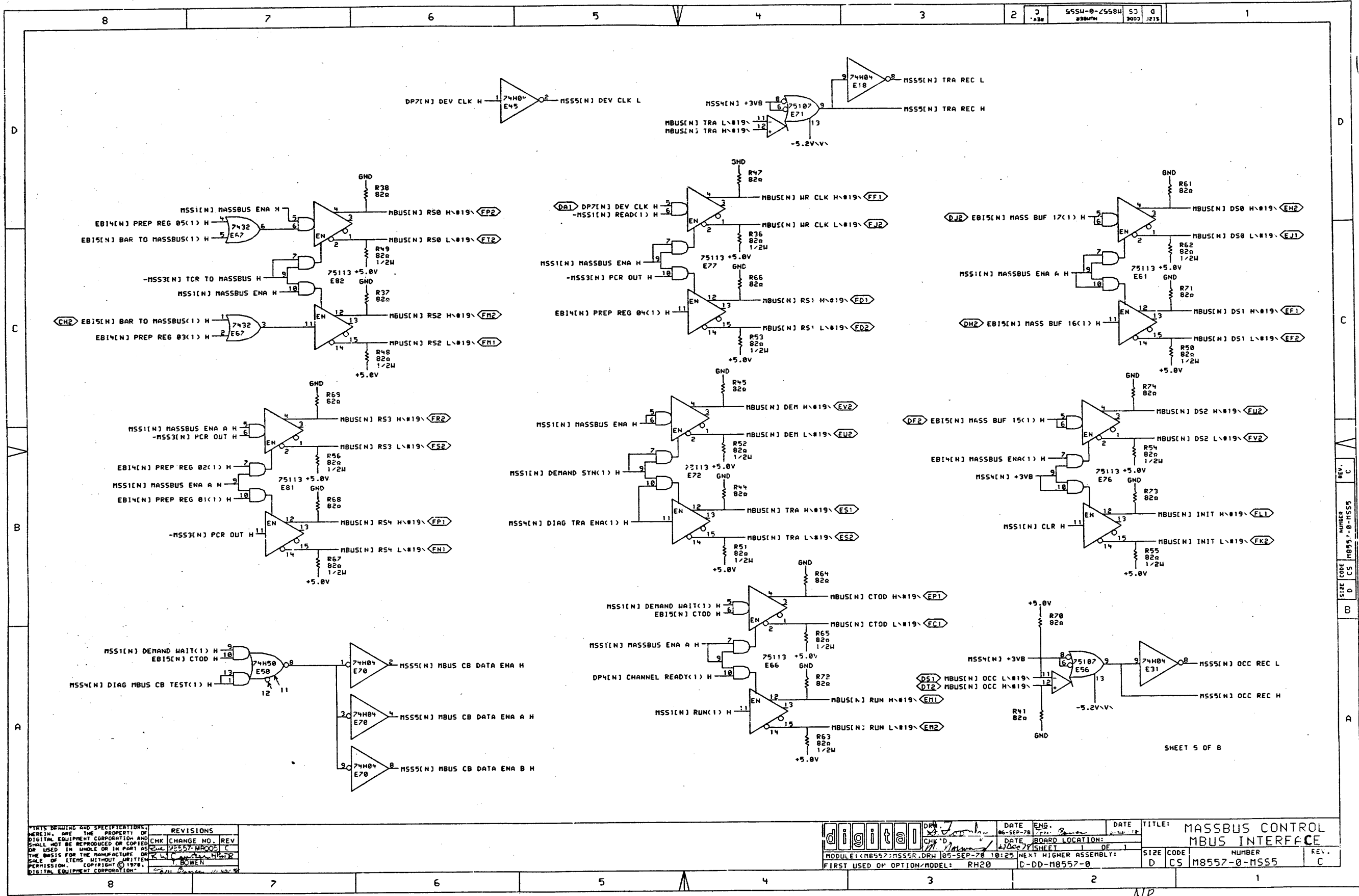


SHEET 4 OF 8

REVISIONS table with columns for CHK, CHANGE NO., and REV. Includes a note about the drawing and specifications being the property of Digital Equipment Corporation.

digital logo and title block. TITLE: MASSBUS CONTROL MBUS INTERFACE. Includes fields for DATE, ENG., and other project information.

MR

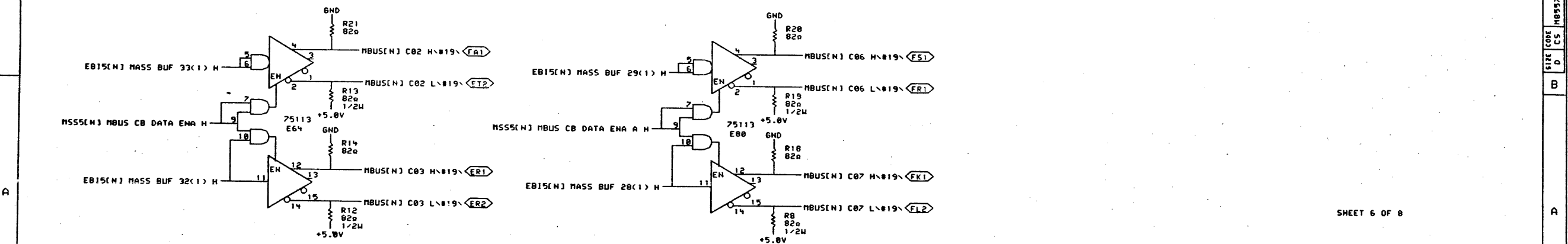
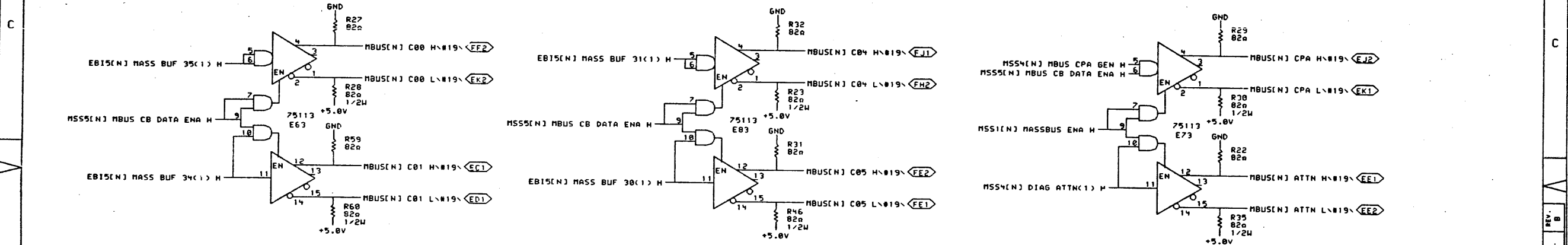
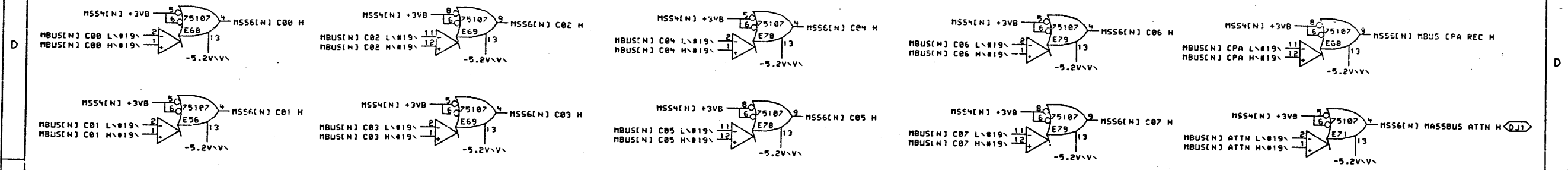


REVISIONS	
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DATE ENG.	DATE	TITLE:	MASSBUS CONTROL MBUS INTERFACE
06-SEP-78		DATE BOARD LOCATION:	
06-SEP-78		DATE SHEET	1 OF 1
MODULE: M8557: MSS57.DRW	05-SEP-78 10:25	NEXT HIGHER ASSEMBLY:	
FIRST USED OR OPTION/MODEL:	RH20	C-DD-M8557-0	
SIZE	CODE	NUMBER	REV.
D	CS	M8557-0-MSS5	C

SHEET 5 OF 8

MR

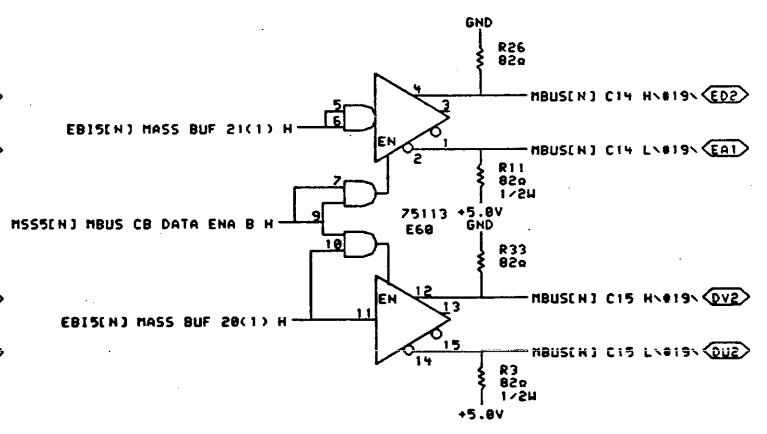
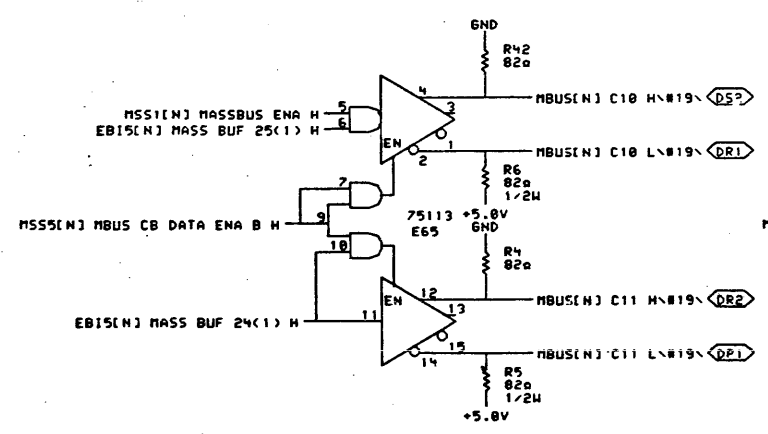
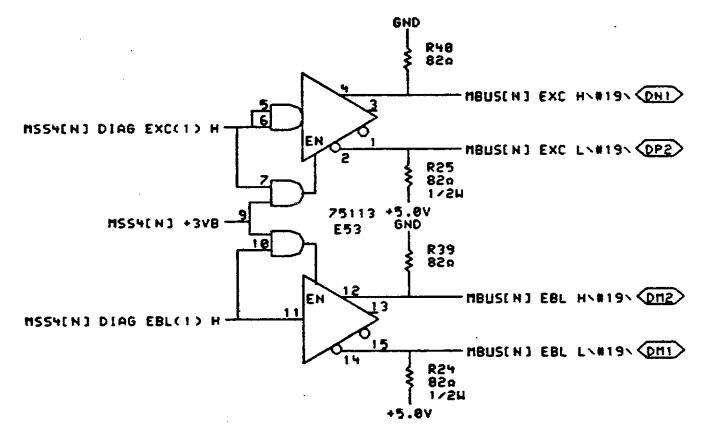
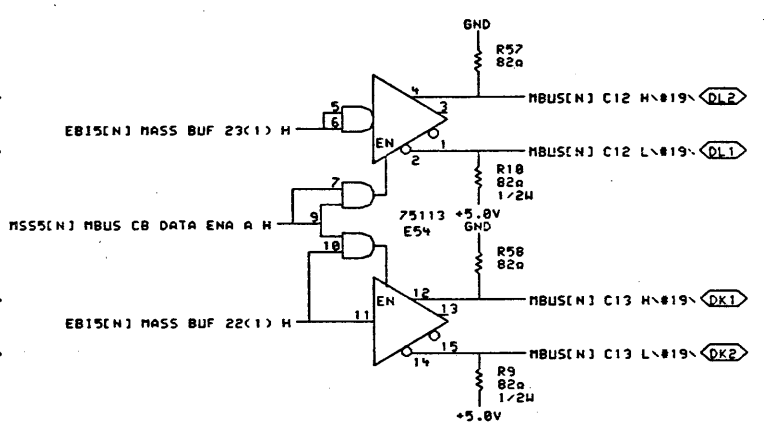
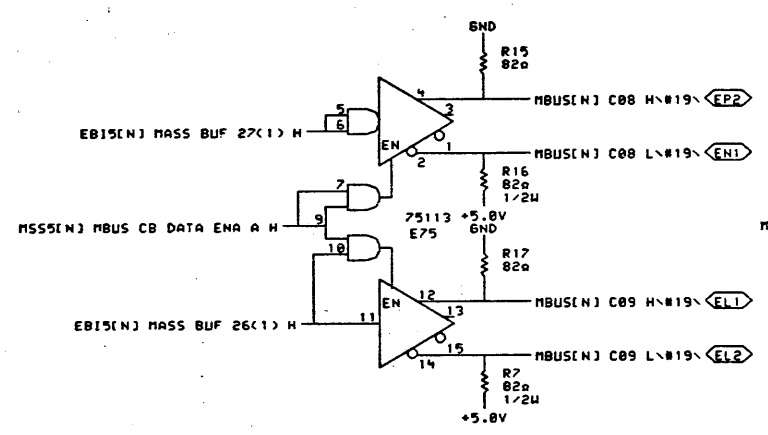
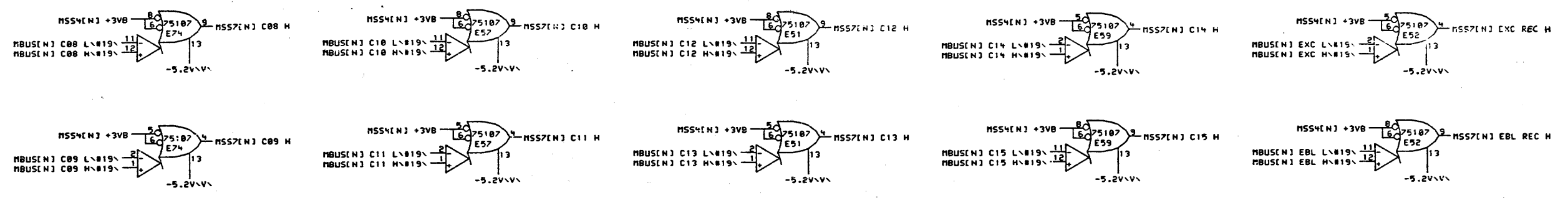


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REVISIONS	CHANGE NO.	REV
1	1	1
2	2	2

digital	DATE: 06-SEP-78	ENG.:	DATE:	TITLE: MASSBUS CONTROL MBUS INTERFACE
MODULE: <<M8557>>M856R.DRW 105-SEP-78 10:26	DATE: 08/09	BOARD LOCATION:	SHEET 1 OF 1	SIZE CODE D CS
FIRST USED ON OPTION/MODEL: RH20	DATE: 08/09	NEXT HIGHER ASSEMBLY:	D-DD-M8557-0	NUMBER: M8557-0-M856

NR



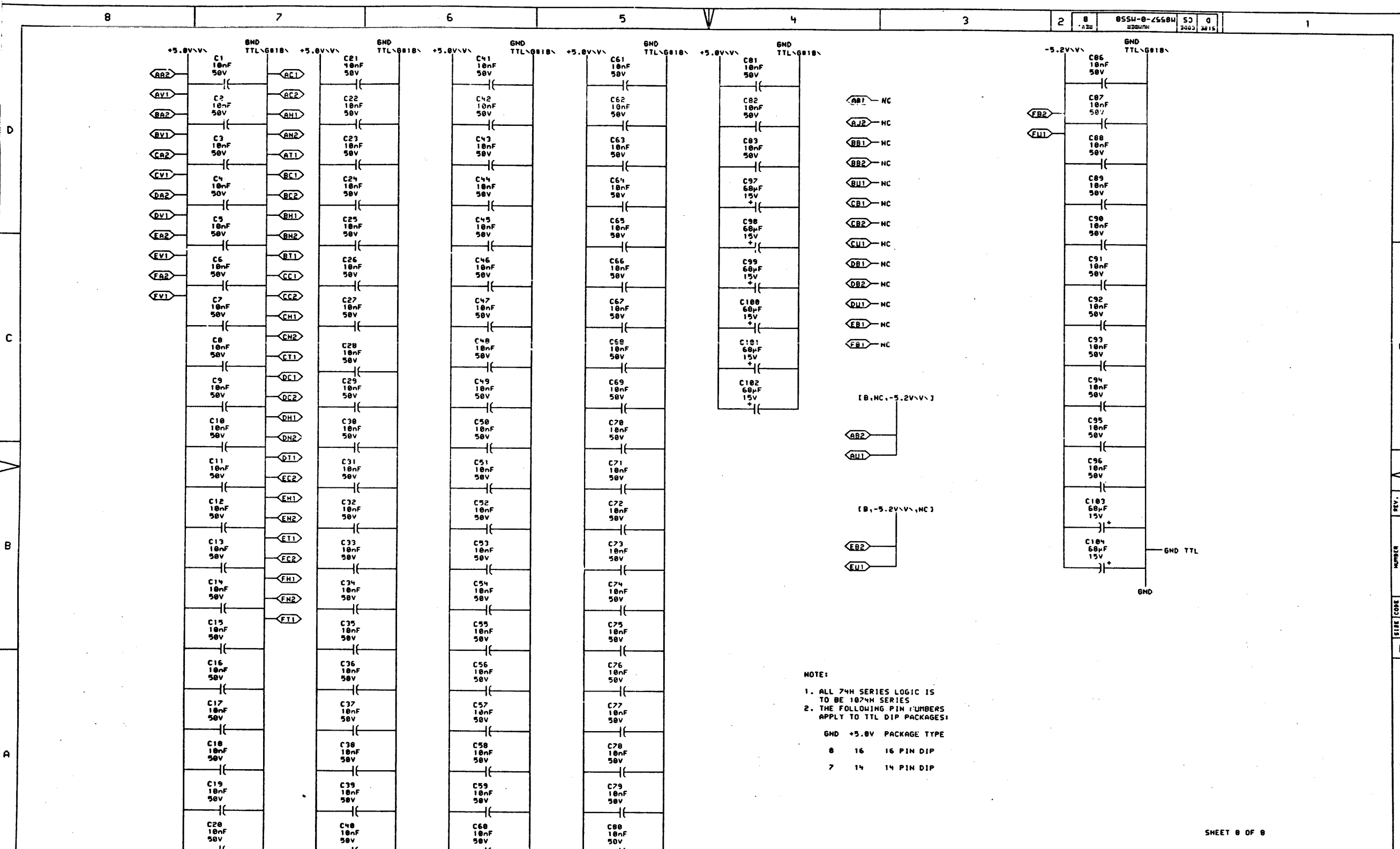
SHEET 7 OF 8

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REV	DESCRIPTION
1	INITIAL
2	CHANGE NO. REV
3	CHANGE NO. REV
4	CHANGE NO. REV
5	CHANGE NO. REV
6	CHANGE NO. REV
7	CHANGE NO. REV
8	CHANGE NO. REV

digital	DATE	ENG.	DATE	TITLE:
	06-SEP-78	J. J. J.	16-SEP-78	MASSBUS CONTROL MBUS INTERFACE
	CHK'D	DATE	BOARD LOCATION:	
	M. J. J.	27-SEP-78		
MODULE: M8557-MSS7R.DRW 05-SEP-78 10:27			NEXT HIGHER ASSEMBLY:	SHEET 1 OF 1
FIRST USED ON OPTION MODEL: RH20			D-DD-M8557-C	D CS M8557-0-MSS7 B

MR



NOTE:
 1. ALL 74H SERIES LOGIC IS TO BE 1074H SERIES
 2. THE FOLLOWING PIN NUMBERS APPLY TO TTL DIP PACKAGES:

GND	+5.0V	PACKAGE TYPE
8	16	16 PIN DIP
7	14	14 PIN DIP

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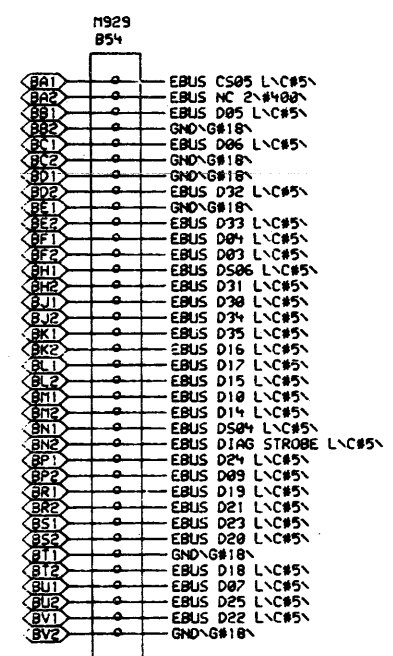
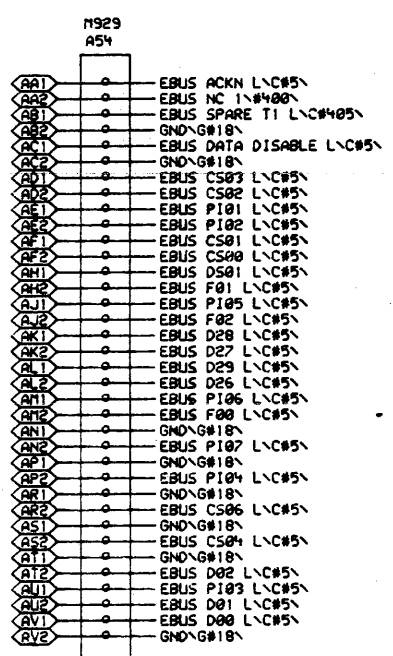
REV.	CHG	CHANGE NO.	REV
1	W	1	B
2	W	2	B
3	W	3	B
4	W	4	B

digit@l	DATE	ENG.	DATE	TITLE: POWER, GND. CAPS.
	06-SEP-78	Tom Brown	06-SEP-78	
	DATE	BOARD LOCATION:		
	07-SEP-78	1 OF 1		
MODULE: (M8557) MSSBR.DRII 105-SEP-78 10:31 NEXT HIGHER ASSEMBLY:		SIZE	CODE	NUMBER
FIRST USED ON OPTION/MODEL: RH20		D	CS	M8557 0 MSSB
				REV. 8

1.10

D
C
B
A

D
C
B
A



OPTION	CABLE LOCATION
KL10	4A001
DTE20 & RH20	2A010
DTE20 & RH20	2A037

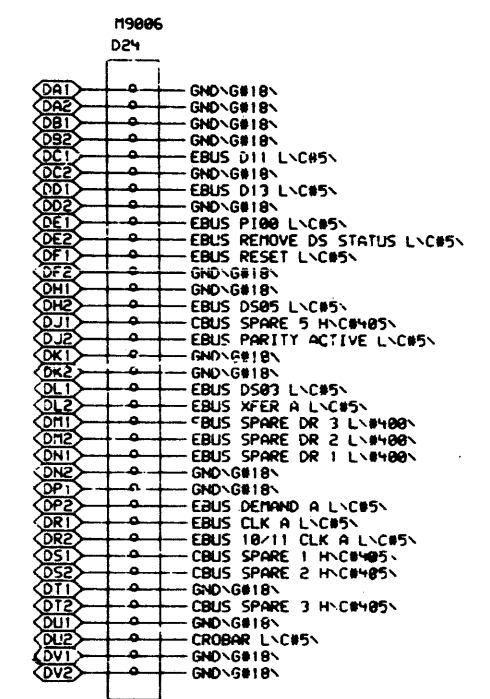
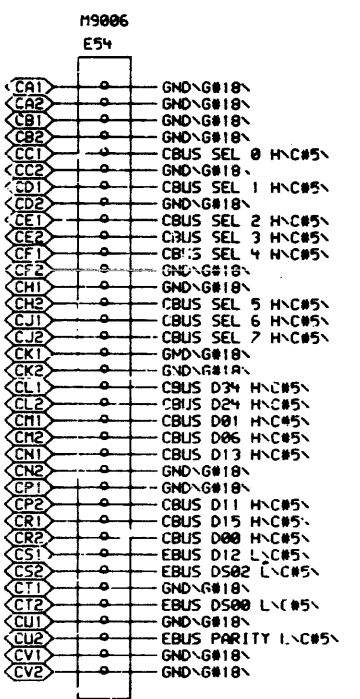
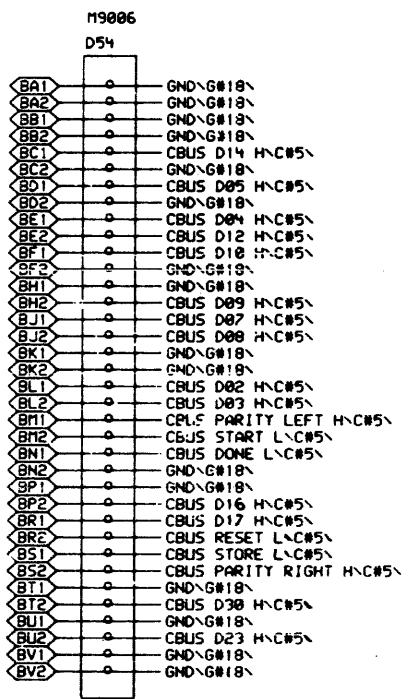
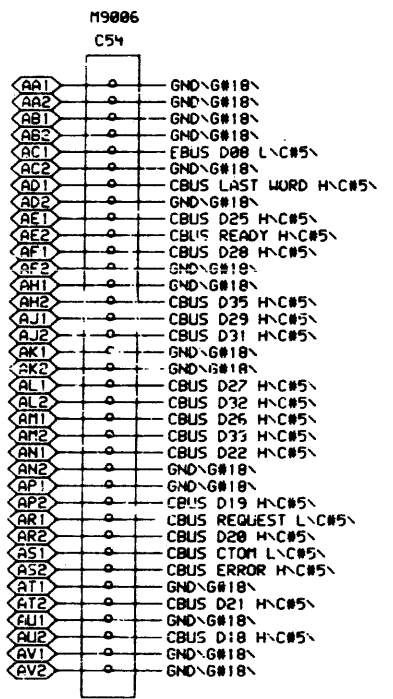
1 OF 2

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REVISIONS	
CHK	CHANGE NO. REV

	DATE: 21-OCT-75	ENG: [Signature]	DATE: 2/06/77	TITLE: EBUS CABLE I/O TO CPU
	DATE: 10/26/75	BOARD LOCATION: DE	DATE: 10/26/75	SIZE CODE: D IC
FIRST USED ON OPTION MODEL: KL10	107-SEP-75 1349	NEXT HIGHER ASSEMBLY: 0-DD-KL10-0	NUMBER: KL10-0-10C1	REV.:

REV. NUMBER
KL10-0-10C1



OPTION	CABLE LOCATION
KL10	4CF01
DTE20(ND RH20)	2CF16
DTE20 & RH20	2CF37

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REVISIONS		
CHK	CHANGE NO.	REV

digital DRW. *J. J. J.* DATE 14-OCT-75 ENG. *392* DATE 20-OCT-75
 CHK'D. *J. J. J.* DATE 20-OCT-75 SHEET 1 OF 1
 [OC2(4,426)] 107-SEP-75 15:52 NEXT HIGHER ASSEMBLY: B-DD-KL10-0
 FIRST USED ON OPTION/MODEL: KL10

TITLE: EBUS+CBUS CABLES I/O TO CPU		SIZE CODE: D I C	NUMBER: KL10-0-10C2	REV.
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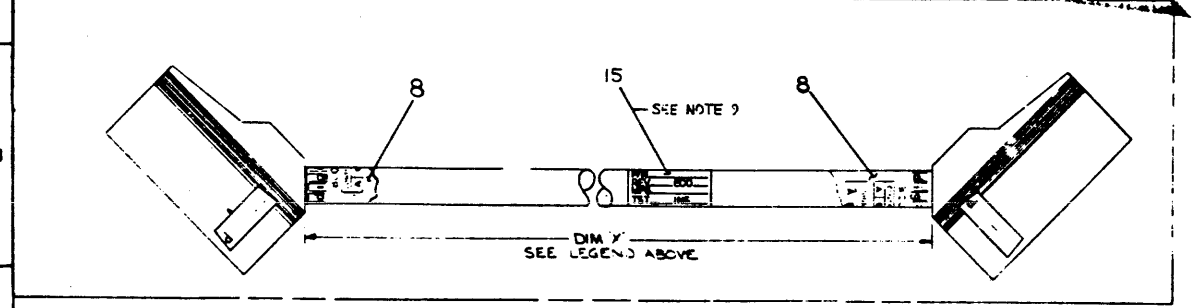
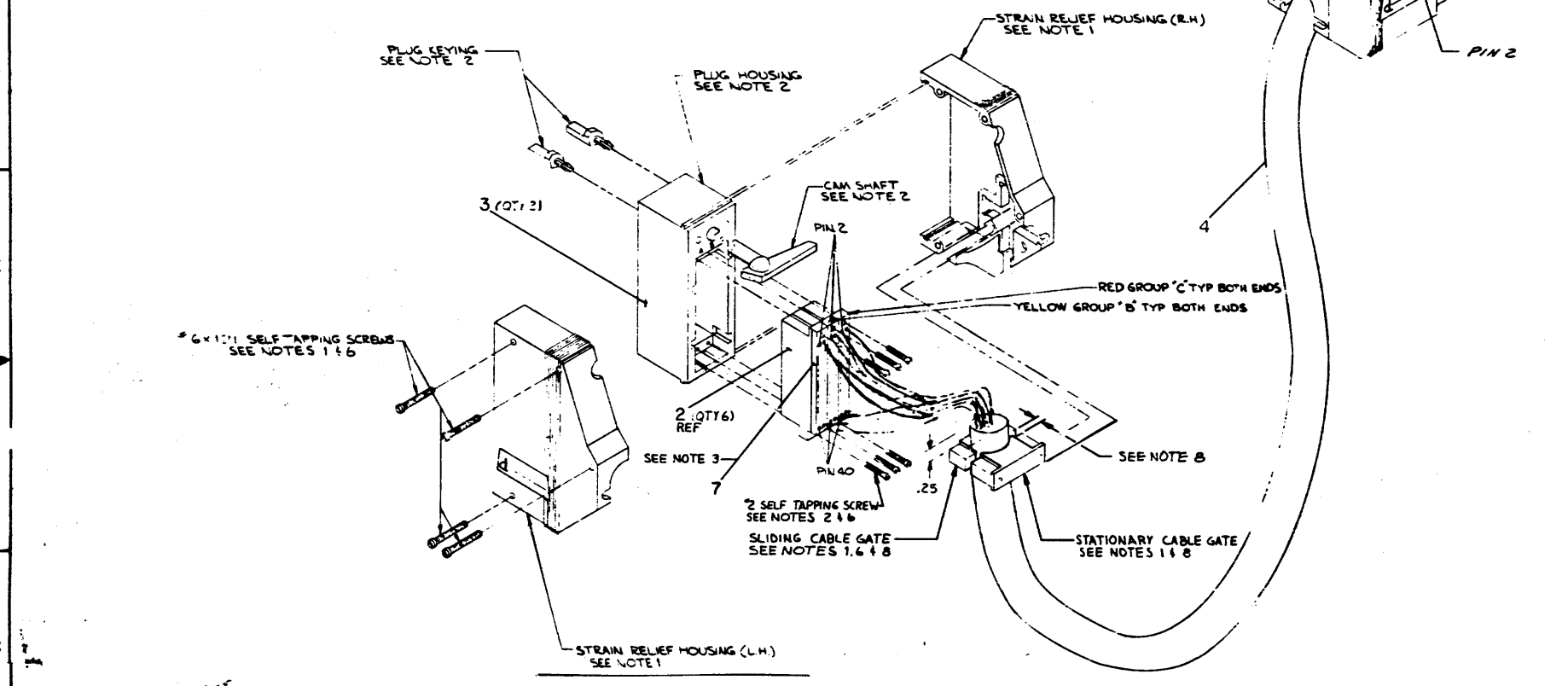
REV. 107-SEP-75 15:52

THIS DRAWING AND SPECIFICATIONS, WHEN USED IN CONNECTION WITH THE DRAWING OF THE COMPLETE ASSEMBLY, SHALL BE CONSIDERED AS PART OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

LEGEND				
NUMBER	DIM X	PRESUT LENGTH	STRIP LENGTH	REMARKS
BC065-01	1 FT	2 FT 10 IN ± 1 IN	SEE SH2 2 & NOTE 4	
BC065-02	2 FT	3 FT 10 IN ± 1 IN		
BC065-03	3 FT	4 FT 10 IN ± 1 IN		
BC065-04	4 FT	5 FT 10 IN ± 1 IN		
BC065-05	5 FT	6 FT 10 IN ± 1 IN		
BC065-06	6 FT	7 FT 10 IN ± 1 IN		
BC065-08	8 FT	9 FT 10 IN ± 1 IN		
BC065-10	10 FT	11 FT 10 IN ± 1 IN		
BC065-12	12 FT	13 FT 10 IN ± 1 IN		
BC065-15	15 FT	16 FT 10 IN ± 1 IN		
BC065-20	20 FT	21 FT 10 IN ± 1 IN		
BC065-25	25 FT	26 FT 10 IN ± 1 IN		
BC065-30	30 FT	31 FT 10 IN ± 1 IN		
BC065-40	40 FT	41 FT 10 IN ± 1 IN		
BC065-50	50 FT	51 FT 10 IN ± 1 IN		
BC065-60	60 FT	61 FT 10 IN ± 1 IN		
BC065-75	75 FT	76 FT 10 IN ± 1 IN	SEE SH2 2 & NOTE 4	

SEE NOTES 3 & 4

- NOTES:
- STRAIN RELIEF HOUSING, LH & RH & CABLE GATES, STATIONARY & SLIDING, AND THEIR MOUNTING HARDWARE ARE PART OF ITEM 1 (STRAIN RELIEF KIT).
 - KEYING PLUGS, PLUG HOUSING, CAM SHAFT, AND MOUNTING HARDWARE ARE PART OF ITEM 2 (PLUG HOUSING AND CAM SHAFT KIT). KEYING ARRANGEMENT IS TO BE DETERMINED AT USER'S FINAL ASSEMBLY. PLACE KEYING PLUGS IN BAG ITEM #24, AFTER BAG AROUND CABLE.
 - APP SEMI-AUTOMATIC INSERTION MACHINES (COMPARATOR OR COMPACTOR) MUST BE USED TO TERMINATE THE LEADS TO THE PLUG ASSEMBLIES (STEP #2). THE STANDARD CABLE CLAMP SUPPLIED WITH THE APP MACHINES MAY REQUIRE REPLACEMENT WITH AN ADJUSTABLE TYPE CLAMP TO POSITION CABLE (ITEM #1) TO PLUG ASSEMBLY (ITEM #2) PER DETAIL A. AFTER ASSEMBLY OF WIRES TO PLUG, INSTALL COVER (ITEM #3) TO EACH SIDE OF PLUG.
 - THE THINER DRAIN WIRES AND BLACK GND WIRE MUST BE PREPARED AS FOLLOWS BEFORE TERMINATING CABLE TO PLUG (ITEM #2). THESE PROCEDURES ARE DESCRIBED IN SEC ASSEMBLY PROCESS FOR THE ASST. A SIGNED DISCLOSURE STATEMENT IS REQUIRED TO OBTAIN COPIES OF ANY SEC PROCESS SPECIFICATION.
 - CUT AND REMOVE 3.0 ± .25 INCHES OF THE OUTER JACKET. REMOVE THE PLUG WIRE AND ALUMINUM SHIELD FLASH WITH OUTER JACKET FROM BOTH ENDS OF CABLE. CAUTION: DO NOT CUT OR BEND ANY WIRES UNDER CABLE JACKET.
 - CUT THE UPPER DRAIN WIRE BACK TO THE JACKET (.75 ± .06) INCHES. SLICE A PRE-CUT LENGTH OF TUBING (.75 ± .06) INCHES OVER DRAIN WIRE UNTIL (.25 ± .06) INCHES OF DRAIN WIRE IS EXPOSED. FIRM AND SEPARATE THE SOLID BLUE/WHITE TWISTED PAIRED WIRES. CUT THE WHITE WIRE FLASH WITH THE JACKET. STRIP ONE END OF THE LOOSE WHITE WIRE (.25 ± .06) SPLICE (SPITALS), SOLDER AND COVER SPLICE WITH (.05 ± .06) 24 GA TUBING (ITEM #1). TWIST THE TWO WIRES (PREVIOUSLY SEPARATED) BACK TOGETHER FOR APPROXIMATELY 3.0 INCHES.
 - REPEAT 4.2 EXCEPT FIRM THE SOLID WHITE AND YELLOW PAIRED WIRES IN THE YELLOW GROUP. TERMINATE THE LOOSE WHITE WIRE TO THE LOWER DRAIN WIRE. SPLICE, SOLDER, COVER AND TWIST PER 4.2.
 - REMOVE THE ALUMINUM SHIELD FROM THE RED GROUP OF WIRES FLASH WITH JACKET. FIRM THE SOLID WHITE AND RED PAIRED WIRES. REPEAT 4.2 EXCEPT CUT THE CENTER BLACK GROUND WIRE BACK TO (.5 ± .06) AND STRIP (.25 ± .06). TERMINATE THE LOOSE WHITE WIRE TO GROUND WIRE (STRAIGHT WIRE) SOLDER, COVER AND TWIST PER 4.2.
 - ACTIVE CONTACT (1211541-27) AND BLACK #20 AWG WIRE (1910770-00) FOR RFG REPAIR ONLY. REF. APP CONTACT (16255-3 L.P.) HAND CRIMP TOOL (92909-1) AND EXTRACTION TOOL (1111-1).
 - ALL SCREWS TO BE TORQUED AS FOLLOWS:
 - #2 X .30 LG = 2.5 ± .5 IN/LBS
 - #4 X 1.00 LG = 3.5 ± .5 IN/LBS
 - #6 X 1.00 LG = 3.5 ± .5 IN/LBS
 - ONE (ITEM #4) TO BE INSTALLED OVER EACH END OF CABLE CONNECTOR AND SECURED AFTER COMPLETION OF ASSEMBLY.
 - SLIDING AND STATIONARY CABLE GATE MUST BE CLIPPED IN POSITION BEFORE SECURING SCREWS. CABLE GATES SHALL BE EQUALLY SPACED (GAP) 1.06 AND WITHSTAND A 10/LB PULL ON THE CABLE WITHOUT SLIPPING IN CABLE GATE (TYP BDR .067.100).
 - LABEL (ITEM 15) TO CONTAIN:
 - PART NUMBER
 - REV (LEVEL)
 - DATE OF BUILD
 - RFG (PLACE OF BUILD)
 - TEST (STAMP) TEST (STAMP)
 - LABEL TO BE LOCATED APPROXIMATELY IN CENTER OF CABLE (ALL VARIATIONS).
 - SEC STD 116 (OWNERSHIP) APPLIES TO THIS ASSEMBLY.
 - SHIPPING CONTAINER TO BE MARKED:
 - PART NUMBER
 - REV (LEVEL)
 - PLACE OF BUILD
 - DATE SHIPPED
 - QTY.

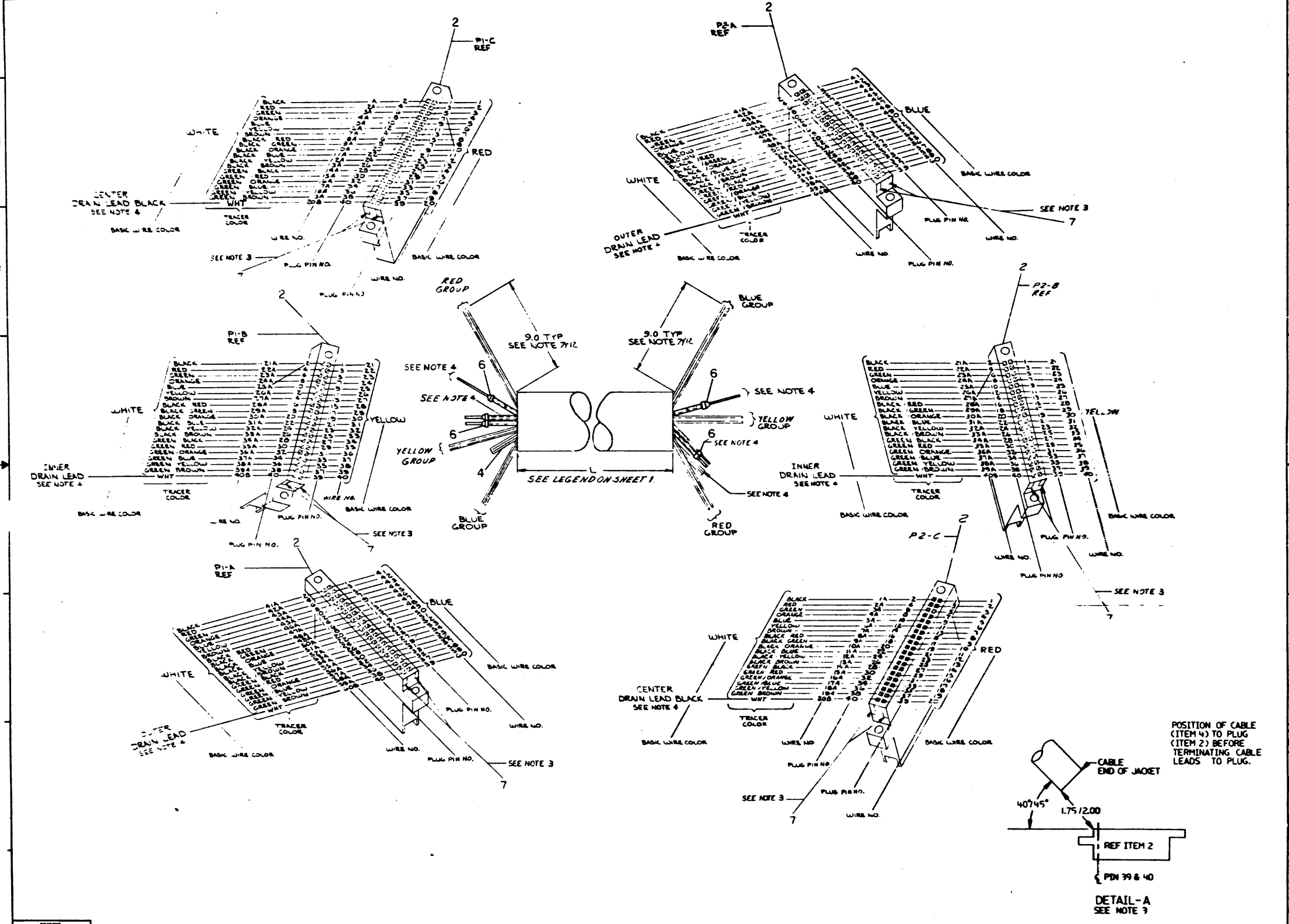


CAUTION: OFF SHEET PARTS LIST EXISTS. SEE K-PL-BC065-0-DBP (Z1755).

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
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PART USED ON OTHER MODEL		QTY	DESCRIPTION	PART NO.
RP04				
DISPOSITIONAL TITLE				
CABLE, MASS BUS				
EUA				
BC065-0-0				

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WIRE TABLE (RED GROUP)

WIRE NO.	FROM CONNECTOR PLUG	PLUG PIN NO.	BASIC WIRE COLOR	WITH TRACER COLOR	TO CONNECTOR PLUG	PLUG PIN NO.	REMARKS
1	P1-C	1	RED		P2-C	1	TWISTED PAIR
1A		2	WHT	BLK		2	
2		3	RED			3	
2A		4	WHT	RED		4	
3		5	RED			5	
3A		6	WHT	GRN		6	
4		7	RED			7	
4A		8	WHT	ORN		8	
5		9	RED			9	
5A		10	WHT	BLU		10	
6		11	RED			11	
6A		12	WHT	YEL		12	
7		13	RED			13	
7A		14	WHT	BRN		14	
8		15	RED			15	
8A		16	WHT	BLK RED		16	
9		17	RED			17	
9A		18	WHT	BLK GRN		18	
10		19	RED			19	
10A		20	WHT	BLK ORN		20	
11		21	RED			21	
11A		22	WHT	BLK BLU		22	
12		23	RED			23	
12A		24	WHT	BLK YEL		24	
13		25	RED			25	
13A		26	WHT	BLK BRN		26	
14		27	RED			27	
14A		28	WHT	GRN BLK		28	
15		29	RED			29	
15A		30	WHT	GRN RED		30	
16		31	RED			31	
16A		32	WHT	GRN ORN		32	
17		33	RED			33	
17A		34	WHT	GRN BLU		34	
18		35	RED			35	
18A		36	WHT	GRN YEL		36	
19		37	RED			37	
19A		38	WHT	GRN BRN		38	
20	P1-C	39	RED		P2-C	39	TWISTED PAIR
20A	SEE NOTE 4		WHT		SEE NOTE 4		PAIR
20B	SEE NOTE 4	40	WHT		P2-C	40	CENTER GND WIRE

WIRE TABLE (YEL GROUP)

WIRE NO.	FROM CONNECTOR PLUG	PLUG PIN NO.	BASIC WIRE COLOR	WITH TRACER COLOR	TO CONNECTOR PLUG	PLUG PIN NO.	REMARKS
21	P1-B	1	YEL		P2-B	1	TWISTED PAIR
21A		2	WHT	BLK		2	
22		3	YEL			3	
22A		4	WHT	RED		4	
23		5	YEL			5	
23A		6	WHT	GRN		6	
24		7	YEL			7	
24A		8	WHT	ORN		8	
25		9	YEL			9	
25A		10	WHT	BLU		10	
26		11	YEL			11	
26A		12	WHT	YEL		12	
27		13	YEL			13	
27A		14	WHT	BRN		14	
28		15	YEL			15	
28A		16	WHT	BLK RED		16	
29		17	YEL			17	
29A		18	WHT	BLK GRN		18	
30		19	YEL			19	
30A		20	WHT	BLK ORN		20	
31		21	YEL			21	
31A		22	WHT	BLK BLU		22	
32		23	YEL			23	
32A		24	WHT	BLK YEL		24	
33		25	YEL			25	
33A		26	WHT	BLK BRN		26	
34		27	YEL			27	
34A		28	WHT	GRN BLK		28	
35		29	YEL			29	
35A		30	WHT	GRN RED		30	
36		31	YEL			31	
36A		32	WHT	GRN ORN		32	
37		33	YEL			33	
37A		34	WHT	GRN BLU		34	
38		35	YEL			35	
38A		36	WHT	GRN YEL		36	
39		37	YEL			37	
39A		38	WHT	GRN BRN		38	
40	P1-B	39	YEL		P2-B	39	TWISTED PAIR
40A	SEE NOTE 4		WHT		SEE NOTE 4		PAIR
40B	P1-B	40	WHT		P2-B	40	INNER DRAIN WIRE

WIRE TABLE (BLU GROUP)

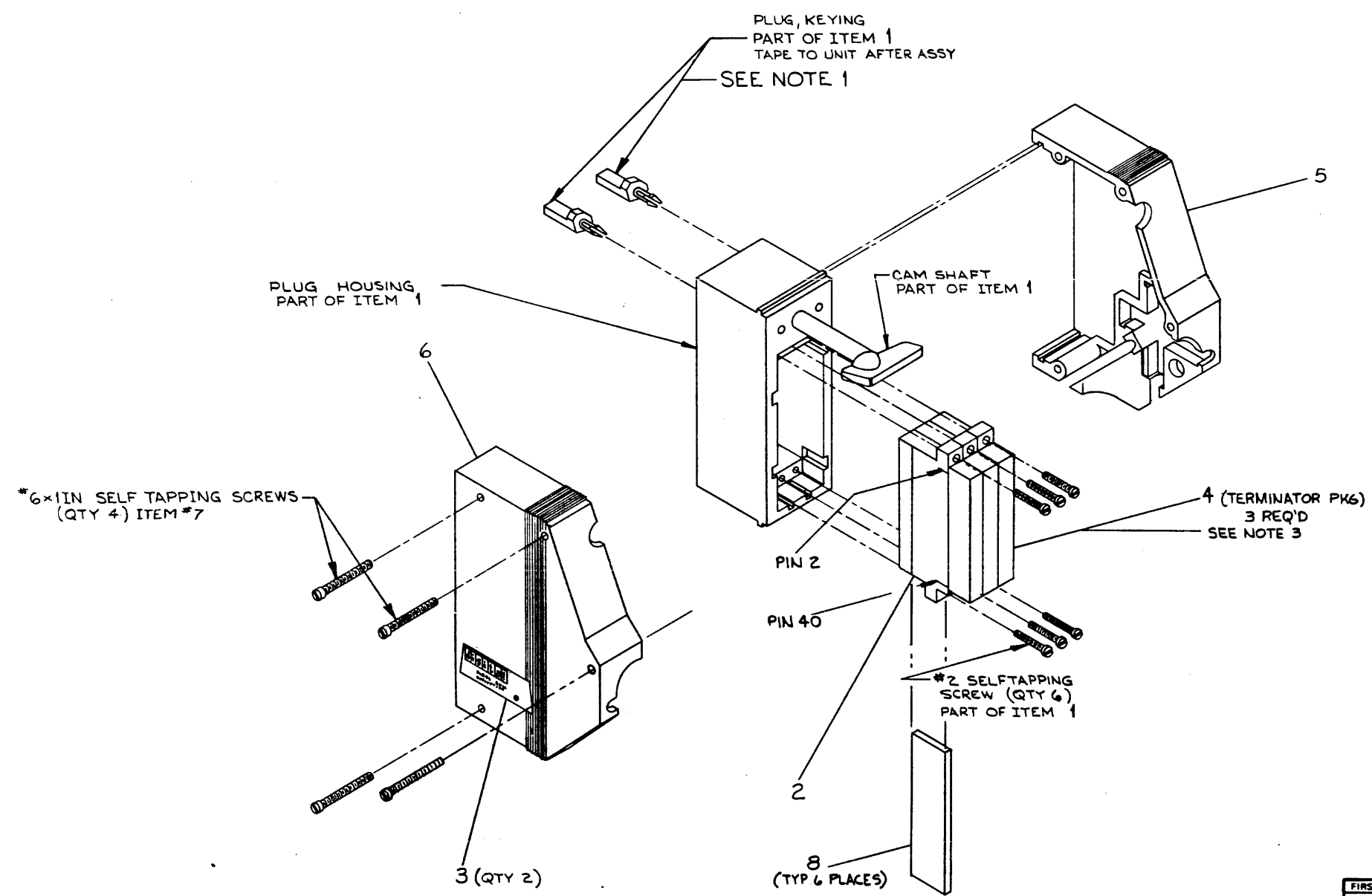
WIRE NO.	FROM CONNECTOR PLUG	PLUG PIN NO.	BASIC WIRE COLOR	WITH TRACER COLOR	TO CONNECTOR PLUG	PLUG PIN NO.	REMARKS
41	P1-A	1	BLU		P2-A	1	TWISTED PAIR
41A		2	WHT	BLK		2	
42		3	BLU			3	
42A		4	WHT	RED		4	
43		5	BLU			5	
43A		6	WHT	GRN		6	
44		7	BLU			7	
44A		8	WHT	ORN		8	
45		9	BLU			9	
45A		10	WHT	BLU		10	
46		11	BLU			11	
46A		12	WHT	YEL		12	
47		13	BLU			13	
47A		14	WHT	BRN		14	
48		15	BLU			15	
48A		16	WHT	BLK RED		16	
49		17	BLU			17	
49A		18	WHT	BLK GRN		18	
50		19	BLU			19	
50A		20	WHT	BLK ORN		20	
51		21	BLU			21	
51A		22	WHT	BLK BLU		22	
52		23	BLU			23	
52A		24	WHT	BLK YEL		24	
53		25	BLU			25	
53A		26	WHT	BLK BRN		26	
54		27	BLU			27	
54A		28	WHT	GRN BLK		28	
55		29	BLU			29	
55A		30	WHT	GRN RED		30	
56		31	BLU			31	
56A		32	WHT	GRN ORN		32	
57		33	BLU			33	
57A		34	WHT	GRN BLU		34	
58		35	BLU			35	
58A		36	WHT	GRN YEL		36	
59		37	BLU			37	
59A		38	WHT	GRN BRN		38	
60	P1-A	39	BLU		P2-A	39	TWISTED PAIR
60A	SEE NOTE 4		WHT		SEE NOTE 4		PAIR
60B	P1-A	40	WHT		P2-A	40	OUTER DRAIN WIRE

REV	DATE	BY

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- NOTES:
1. PLUG KEYING, PLUG HOUSING, CAM SHAFT & MOUNTING HARDWARE ARE PART OF ITEM 1 (PLUG HOUSING & CAMSHAFT KIT).
 2. CUT JUMPER W2 ON H870 TERMINATOR MODULES.
 3. PRIOR TO ASSY OF ITEM 4 TO ITEM 2, CUT OFF LEAD AT PIN 39. CUT FLUSH WITH TERMINATOR BODY.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
6	COVER, CONTACT	1211591-11	8
4	SELF THREAD SCREW #6x1	1211591-18	7
1	STRAIN RELIEF HOUSING R. H.	1211591-13	6
1	STRAIN RELIEF HOUSING L. H.	1211591-14	5
3	MASS BUS TERMINATOR	1313242	4
2	DECAL	A-DC-7412208-00	3
3	PLUG ASSY	1211591-07	2
1	PLUG HOUSING & CAM SHAFT	1211591-01	1

FIRST USED ON OPTION/MODEL		PARTS LIST																					
RP04		QTY.	DESCRIPTION																				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		<table border="1"> <tr> <td>DRN</td> <td>T. Quillin</td> <td>DATE</td> <td>5-24-77</td> </tr> <tr> <td>CHK'D</td> <td>T. Quillin</td> <td>DATE</td> <td>8/17/77</td> </tr> <tr> <td>ENG</td> <td>Walt D.</td> <td>DATE</td> <td>1/26/77</td> </tr> <tr> <td>PROJ. ENG.</td> <td>D. J.</td> <td>DATE</td> <td>8/26/77</td> </tr> <tr> <td>PROG.</td> <td>D. J.</td> <td>DATE</td> <td>8/26/77</td> </tr> </table>		DRN	T. Quillin	DATE	5-24-77	CHK'D	T. Quillin	DATE	8/17/77	ENG	Walt D.	DATE	1/26/77	PROJ. ENG.	D. J.	DATE	8/26/77	PROG.	D. J.	DATE	8/26/77
DRN	T. Quillin	DATE	5-24-77																				
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PROJ. ENG.	D. J.	DATE	8/26/77																				
PROG.	D. J.	DATE	8/26/77																				
DECIMALS	ANGLES	<table border="1"> <tr> <td>XXX - 008</td> <td></td> <td colspan="2">TITLE</td> </tr> <tr> <td>.XX - .02</td> <td>±0° 30'</td> <td colspan="2">TERMINATOR PACK ASSY</td> </tr> <tr> <td>.X - .1</td> <td></td> <td colspan="2">REV.</td> </tr> </table>		XXX - 008		TITLE		.XX - .02	±0° 30'	TERMINATOR PACK ASSY		.X - .1		REV.									
XXX - 008		TITLE																					
.XX - .02	±0° 30'	TERMINATOR PACK ASSY																					
.X - .1		REV.																					
REMOVES BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		<table border="1"> <tr> <td>MATERIAL</td> <td>E-UA-RP04-φ-φ</td> <td>SIZE CODE</td> <td>DAD</td> </tr> <tr> <td>FINISH</td> <td></td> <td>NUMBER</td> <td>7009938-0-0</td> </tr> <tr> <td></td> <td></td> <td>REV.</td> <td>C</td> </tr> </table>		MATERIAL	E-UA-RP04-φ-φ	SIZE CODE	DAD	FINISH		NUMBER	7009938-0-0			REV.	C								
MATERIAL	E-UA-RP04-φ-φ	SIZE CODE	DAD																				
FINISH		NUMBER	7009938-0-0																				
		REV.	C																				
SEE PARTS LIST		<table border="1"> <tr> <td>SHEET</td> <td>2</td> <td>OF</td> <td>2</td> </tr> <tr> <td>DIST.</td> <td></td> <td></td> <td></td> </tr> </table>		SHEET	2	OF	2	DIST.															
SHEET	2	OF	2																				
DIST.																							

REV.	CHANGE NO.	DATE	BY
A	7009938-00001	2 APR 72	D. LIGNOS
B	7009938-00002	11 FEB 77	J. RINALDIS
C	7009938-00003	28 AUG 77	S. BARTOFF

PART NO. 7009938-0-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION			DATE 14 Jan 1976			
TITLE RH20/RTP04 ACCEPTANCE PROCEDURE						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>Phix</i>	APPD <i>W. G. ...</i>	SIZE CODE A	NUMBER 1	REV 1
DEC FORM NO EN-01022:16-N70-(381)		DRA 107A		SHEET 1 OF 4

ENGINEERING SPECIFICATION					CONTINUATION SHEET	
TITLE RH20/RTP04 ACCEPTANCE PROCEDURE						
1.0 Diagnostics Required						
1.1	DFRHB	RH20	Fault Isolator			
1.2	DFSXA	System Exerciser				
1.3	DFRPH	RP04	Device Diagnostic			
1.4	DDRPI	RH10/RH20	RP04 Reliability Diagnostic			
2.0 Test Sequence						
2.1	Perform the clock deskew adjustment (see 3.0)					
2.2	Run 100 passes of DFRHB with a non-existent drive selected. Run on each RH20. A massbus terminator must be used if no drives are on the massbus.					
2.3	Run DFSXA, selecting all RH20s, one pass.					
2.4	Run DFRPH one pass if an RP04 is part of the system. It requires an RP04 with a scratch pack. Run the dual port tests, if the drive is dual port. Also, DFRPH must be run on each port once.					
2.5	Run DDRPI ACCEPT, one pass.					
3.0 Adjustments						
3.1	Deskew the clock on the clock distribution board per the procedure in Appendix A.					
4.0 Margins						
4.1	Voltage Margins - none					
4.2	Speed Margins - all tests to be run at max clock rate.					
5.0 Error rates						
5.1	No errors are allowed in DFRHB and DFSXA. See Appendix B for DFRPH and DDRPI error rates.					
6.0 Failure Action						
6.1	Failure of RH20					
6.1.1	Repair of Module - repeat the entire test sequence. Section 3 may be eliminated if M8556 module was not at fault.					
6.1.2	Replacement of Module - same as 6.1.1					
6.2	Failure of RP04					
6.2.1	Repair of Module - Run DFRPH and DDRPI as specified.					
6.2.2	Replacement of Module - Same as 6.2.1					

DEC FORM NO EN-01022:16-N70-(381)	DRA 108	SIZE CODE A	NUMBER 2	REV 4
DRA 108		SHEET 2 OF 4		

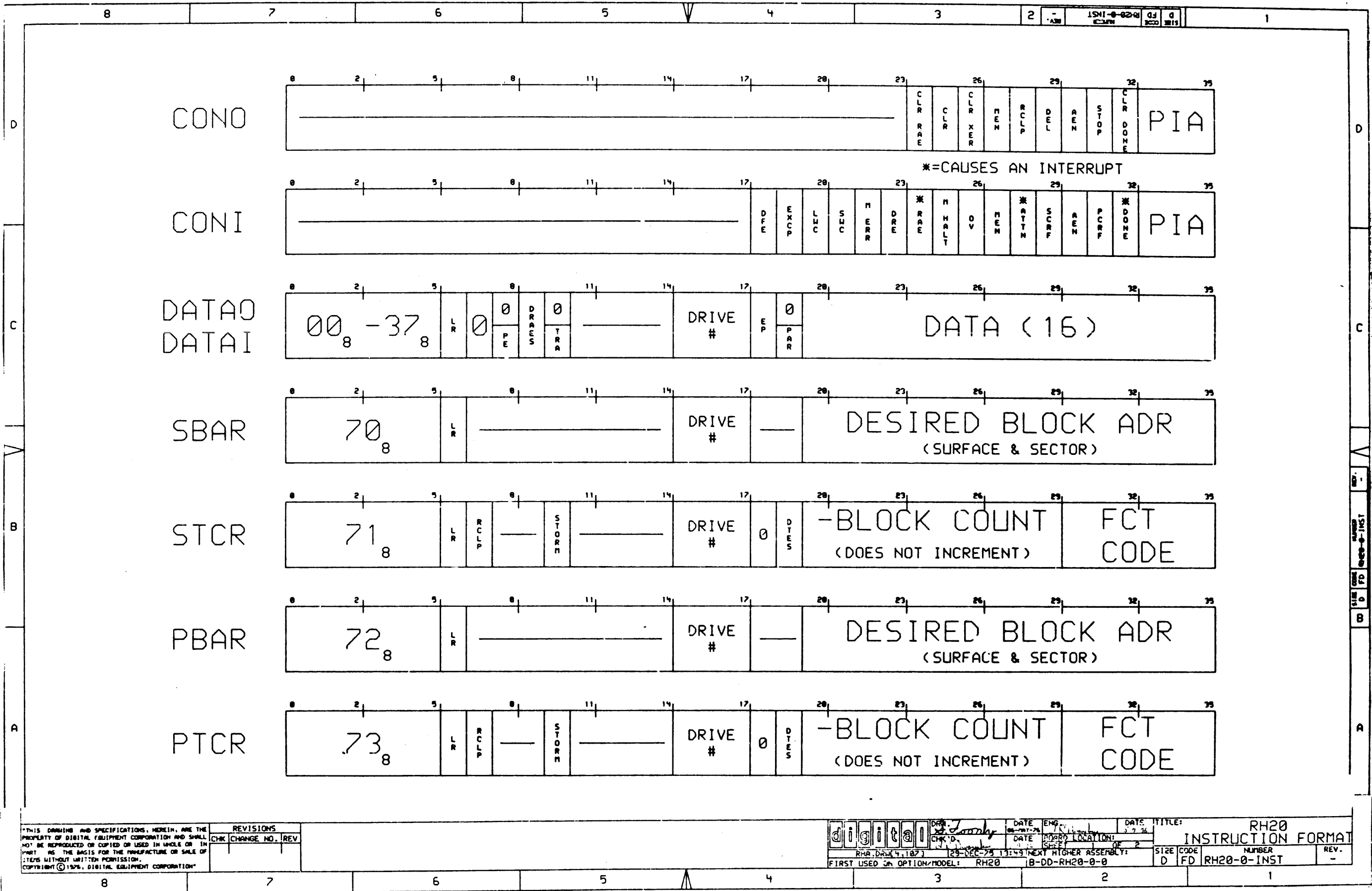
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ENGINEERING SPECIFICATION					CONTINUATION SHEET	
TITLE APPENDIX A. RH20 Clock Deskew Adjustment						
Each RH20 Data Path (DP) M8556 board must have it's clock deskewed with respect to channel time θ ($T\theta$). The deskew is accomplished by adjusting the delay line on the Clock Distribution M8559 board in the I/O cabinet per the following procedure.						
1.	Set up the scope as follows:					
a.	External Sync on B09K1 (CPU gate) at .5V/cm.					
b.	Trace 1 on D33F1 (CPU gate) at .5V/cm.					
c.	Trace 2 on AXXD2 (I/O gate) at 2V/cm. where xx is the location of the M8556 board for the RH20 to be deskewed.					
2.	At a display rate of 20 ns/cm, adjust the appropriate pot on the clock distribution board such that the CPU M80X CLOCK (trace 1) which sets Channel T0 has the 50% point of it's rising edge occurring at the same time as the 50% point of rising edge of DP4 (N) CLK H (trace 2). Move trace 2 briefly to the external sync point (B09K1) to be sure that the clock pulse on trace 1 is the one whose leading edge sets channel T0 (B09K1).					

DEC FORM NO EN-01022:16-N70-(381)	DRA 108	SIZE CODE A	NUMBER 3	REV 4
DRA 108		SHEET 3 OF 4		

ENGINEERING SPECIFICATION					CONTINUATION SHEET	
TITLE APPENDIX B. RP04 ERROR RATES						
1.0	DFRPH should run with no errors detected, if all ECOS are installed.					
2.0 DDRPI						
2.1	Error Definitions					
2.1.1	Soft error - any error recoverable by the retry sequence, including retry, offset and ECC.					
2.1.2	Hard error - any error not recoverable by the retry sequence.					
2.1.3	Seek error - SKI, OCYL, or HCE (header compare errors) where the printout shows that the drive is on the wrong cylinder. HCE logic faults and mismatches of sector and track are not seek errors.					
2.1.4	Pack attributable errors - any errors (DCK, ECH, OPI, DPE, etc.) which occur on the same cylinder and head (track) more than once, even though they may not occur every time. A record of the pack location of every error should be kept so that pack errors can be identified, since they may occur on a certain area as little as one time in ten, or less.					
2.2	Error Rate Criteria					
No hard errors allowed						
One seek error in 10^6 seeks						
One read error in 10^9 bits read, not counting pack errors						
Pack spec allows for 20 pack errors maximum with five or less hard pack errors in this 20.						

DEC FORM NO EN-01022:16-N70-(381)	DRA 108	SIZE CODE A	NUMBER 4	REV 4
DRA 108		SHEET 4 OF 4		

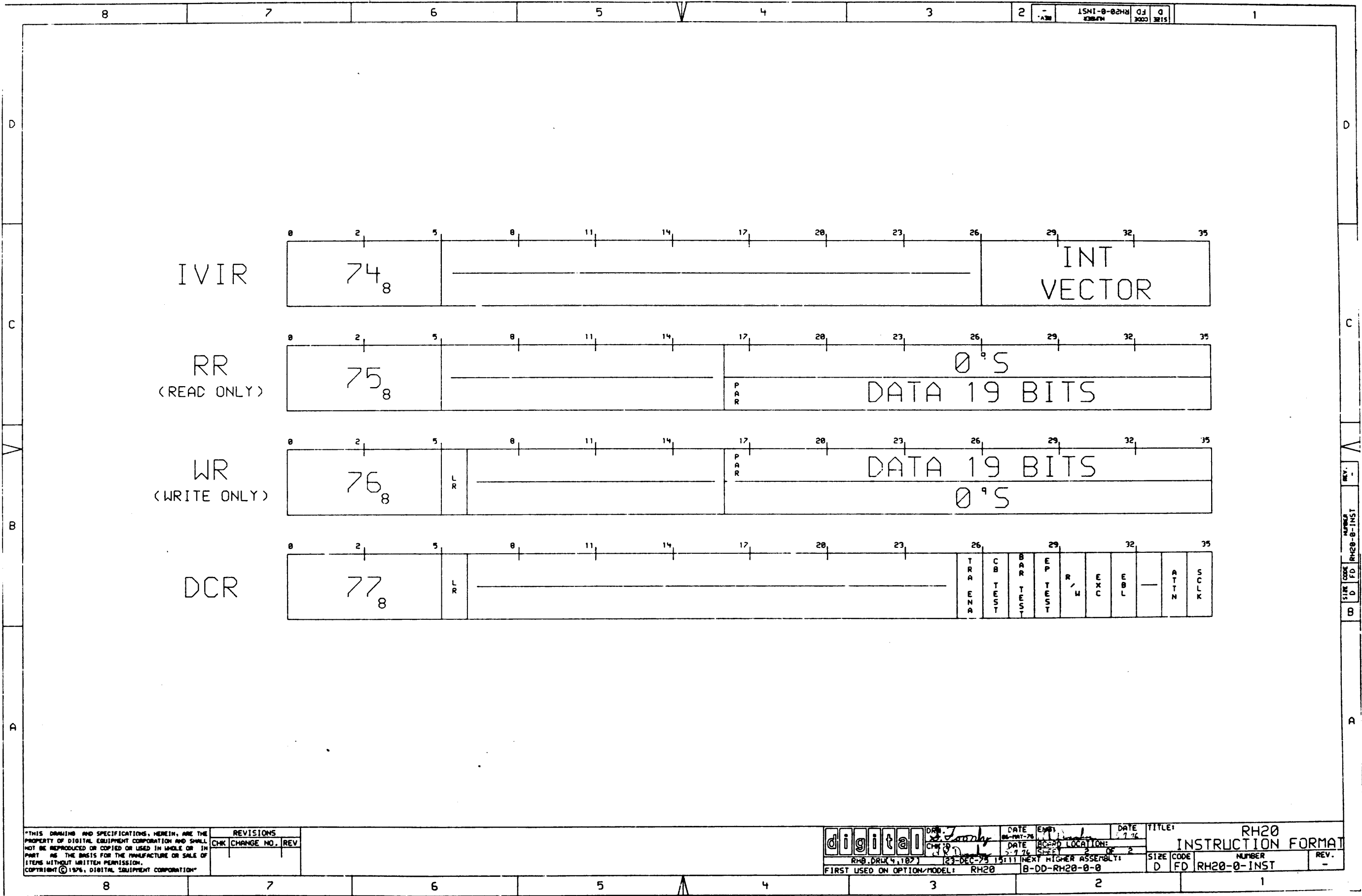


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REVISIONS	
CHK	CHANGE NO. / REV.

	DATE ENG: 10-11-75	DATE: 10-11-75	TITLE: RH20 INSTRUCTION FORMAT
	CHK'D: J. J. J.	DATE: 10-11-75	BOARD LOCATION: 2
RHA, DRW 4, 1873	29-DEC-75 13:49	NEXT HIGHER ASSEMBLY: B-DD-RH20-0-0	SIZE CODE: D FD
FIRST USED IN OPTION/MODEL: RH20			NUMBER: RH20-0-INST
			REV.: -

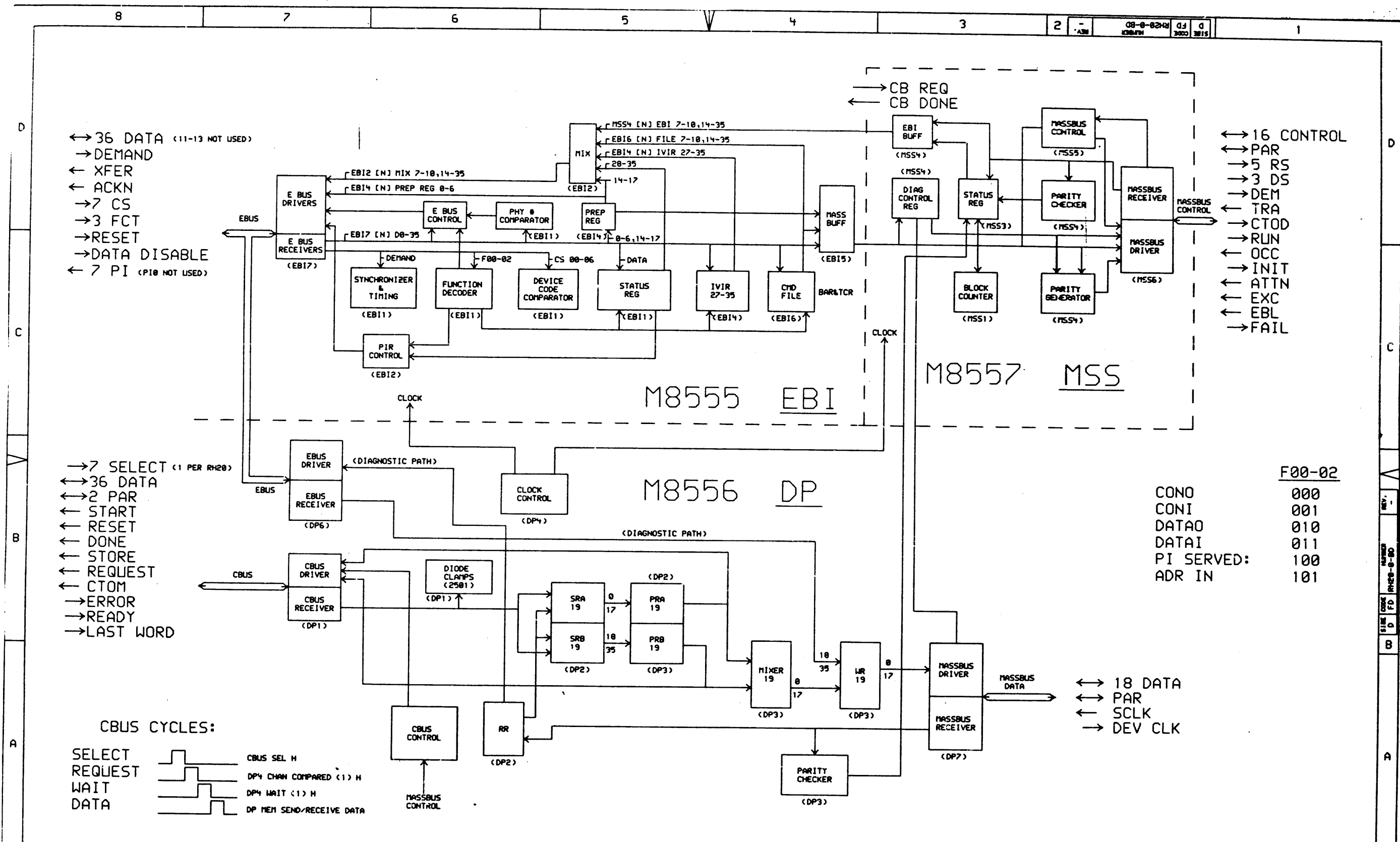
8 7 6 5 4 3 2 1



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REVISIONS	
CHK	CHANGE NO. REV.

	DATE (EOP)	DATE	TITLE: RH20
	DATE	DATE	INSTRUCTION FORMAT
RHB-DRAW 4, 187 FIRST USED ON OPTION/MODEL: RH20	27-OCT-76 12:11	2-7-76 2 OF 2	SIZE CODE: D FD NUMBER: RH20-0-INST REV.: -



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REVISIONS	
CHK	CHANGE NO. REV

digital *DR. J. L. ...* DATE ENG. *...* DATE *...* TITLE: MASSBUS CONTROLLER (BLOCK DIAGRAM)

RHC.DRLK(4.187) 29 JAN 76 15:38 NEXT HIGHER ASSEMBLY: B-00-RH20-0-0

SIZE	CODE	NUMBER	REV.
D	FD	RH20-0-BD	-

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST						QUANTITY / VARIATION															
MADE BY M. ARCHIE		CHECKED <i>M. Archie</i>		SECTION 1		RH2Ø															
DATE 4/16/75		DATE 4-22-75		ISSUED SECT. 1																	
ENG <i>Louis J. Carpenito</i>		PROD <i>D. Regan</i>																			
DATE 5/1/75		DATE 5-7-75																			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																			
1	M8555	MASSBUS CONTROL EBUS INTERFACE				1															
2	M8556	MASSBUS CONTROL CBUS INTERFACE				1															
3	M8557	MASSBUS CONTROL MBUS INTERFACE				1															
4	D-AD-7009938-0-0	MASSBUS TERMINATOR				1															
	NOTE 1:	DO NOT USE ANYTHING SHORTER THAN A																			
		BCØ6S-15 MASSBUS CABLE FROM RH.Ø																			
		CONTROLLER TO FIRST DEVICE.																			
TITLE		ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.										
MASSBUS CONTROLLER		— # —		A	PL	RH2Ø-Ø-Ø															
		SHEET 1 OF 1		DIST.																	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION																
PARTS LIST																				
MADE BY DON OLSEN		CHECKED <i>Bill Harvey</i>		SECTION																
DATE 30 JAN 76		DATE 2 FEB 76		I																
ENG <i>Phil Wilson</i>		PROD <i>J. Kersch</i>		ISSUED SECT.																
DATE 9 FEB 76		DATE 9 FEB 76		I																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		RH2Ø																
1	EK-RH2Ø-UD-ØØ1	RH2Ø UNIT DESCRIPTION		1																
2	MD-1Ø-DFRHB-Ø	RH2Ø FAULT ISOLATOR DIAGNOSTICS		1																
3	MPØØØ56	FIELD SERVICE PRINT SET (RH2Ø)		1																
4	BCØ6S-XX	CABLE MASSBUS (SEE NOTE 1 & 2)		-																
	NOTE 1:	DO NOT USE ANYTHING SHORTER THAN A BCØ6S-15 CABLE FROM RH2Ø CONTROLLER TO FIRST DEVICE.																		
	NOTE 2:	JUMPER W2 OF CARD C (THE BLOCK IS LABELED) SHOULD BE CUT																		
TITLE		ASSY NO.		SIZE CODE		NUMBER				REV.		ECO NO.								
RH2Ø ACCESSORY SHIP LIST		<i>H</i>		A PL		RH2Ø-Ø-ACL														
		SHEET 1 OF 1		DIST.																

DEC FORM DEC 16-(325)-1031-N870
DRA 110

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- NOTES:
- EVEN NUMBERED AND ODD NUMBERED CONTROLLERS HAVE THEIR TRANSITION PIN CONNECTORS NUMBERED DIFFERENTLY.
 - NOTICE THAT THE ROWS H, J, K, L CHANGE IN THE MIDDLE OF THE CONNECTORS AND THAT PIN NUMBERS EXTEND BEYOND V 10 Z. THEY THEN START AT "A" FOR THE NEW ROW.
 - CONTROLLERS ARE IN DIFFERENT BACKPLANE SLOTS, SO USE THE CONTROLLER NUMBER TO FIND WHICH SLOT THE 1ST, 2ND, ETC. ROWS OF PIN REPRESENT.
- EXAMPLE: MASSBUS DB8 H SIGNAL FOR CONTROLLER # GOES FROM #32-L1 TO B2 ON THE MASSBUS CONNECTOR. FOR CONTROLLER 7, IT WOULD RUN FROM #14-R1 TO B2 ON ITS MASSBUS CONNECTOR.

1ST

FROM	TO	SIGNAL NAME
KP1	HK1	B1 MBUS(N) DB8 L
KR1	HL1	B2 DB8 H
KS1	HM1	B5 DB8 L
KT1	HN1	B6 DB8 H
KU1	HP1	B9 DB8 L
KV1	HR1	B10 DB8 H
KW1	HS1	B13 DB8 L
KX1	HT1	B14 DB8 H
KY1	HU1	B17 DB8 L
KZ1	HV1	B18 DB8 H
LA1	HW1	B21 DB8 L
LB1	HX1	B22 DB8 H
LC1	HY1	B25 DB8 L
LD1	HZ1	B26 DB8 H
LE1	JA1	B29 DB8 L
LF1	JB1	B30 DB8 H
LM1	JC1	B33 DB8 L
LJ1	JD1	B34 DB8 H
LK1	JE1	B37 DB8 L
LL1	JF1	B39 DB8 H
KP2	HK2	C2 MBUS(N) DB8 L
KR2	HL2	C4 DB8 H
KS2	HM2	C6 DB8 L
KT2	HN2	C8 DB8 H
KU2	HP2	C10 DB8 L
KV2	HR2	C12 DB8 H
KW2	HS2	C14 DB8 L
KX2	HT2	C16 DB8 H
KY2	HU2	C18 DB8 L
KZ2	HV2	C19 DB8 H
LA2	HW2	C22 DB8 L
LB2	HX2	C24 DB8 H
LC2	HY2	C26 DB8 L
LD2	HZ2	C29 DB8 H
LE2	JA2	C30 DB8 L
LF2	JB2	C32 DB8 H
LM2	JC2	C34 DB8 L
LJ2	JD2	C36 DB8 H
LK2	JE2	C39 DB8 L
LL2	JF2	C39 MBUS(N) FAIL H

2ND

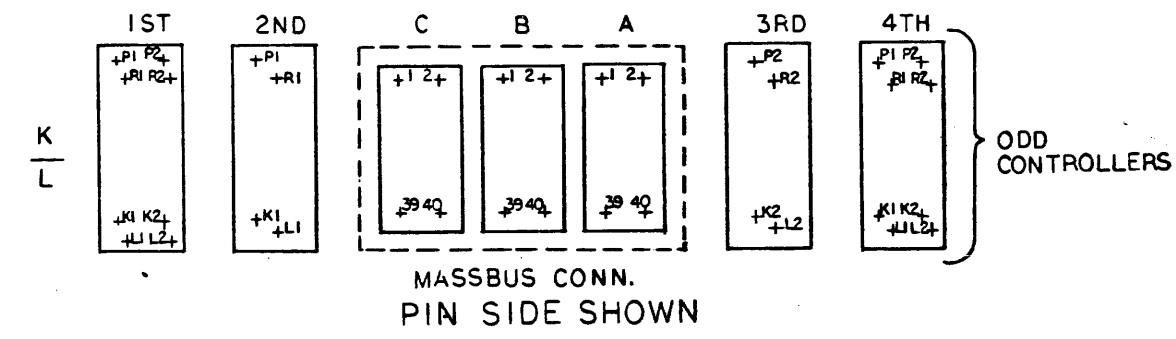
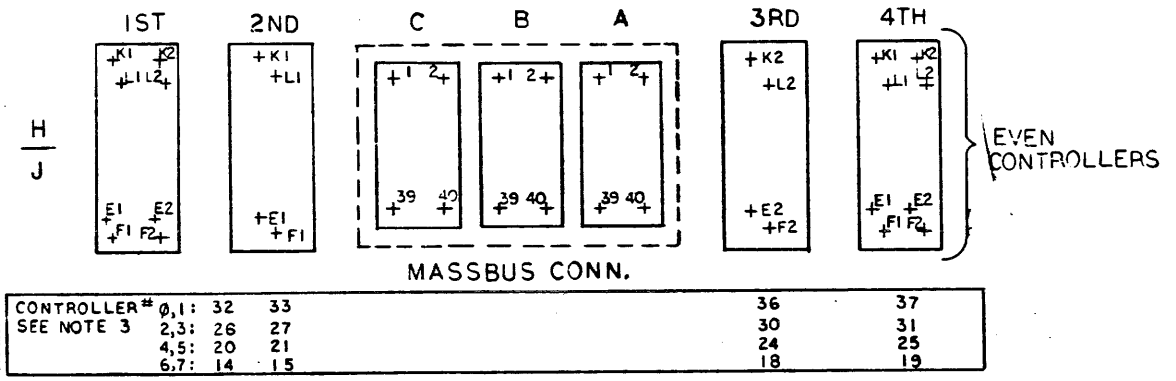
FROM	TO	SIGNAL NAME
KP1	HK1	C81 MBUS(N) D12 L
KR1	HL1	C83 D13 H
KS1	HM1	C85 D14 L
KT1	HN1	C87 D15 H
KU1	HP1	C89 D16 L
KV1	HR1	C11 D17 H
KW1	HS1	C13 DBA L
KX1	HT1	C15 DBA H
KY1	HU1	C17 C13 L
KZ1	HV1	C19 C14 H
LA1	HW1	C21 C15 L
LB1	HX1	C23 CPA H
LC1	HY1	C25 OCC L
LD1	HZ1	C27 DS8 H
LE1	JA1	C29 TRA H
LF1	JB1	C31 DS1 L
LM1	JC1	C33 DS2 L
LJ1	JD1	C35 DEM H
LK1	JE1	C37 MBUS(N) SP2 H
LL1	JF1	C40 GROUND

3RD

FROM	TO	SIGNAL NAME
KP2	HK2	A2 MBUS(N) DB8 H
KR2	HL2	A4 DB8 L
KS2	HM2	A6 DB8 H
KT2	HN2	A8 DB8 L
KU2	HP2	A10 DB8 H
KV2	HR2	A12 DB8 L
KW2	HS2	A14 DB8 H
KX2	HT2	A16 DB8 L
KY2	HU2	A18 DB8 H
KZ2	HV2	A20 DB8 L
LA2	HW2	A22 DB8 H
LB2	HX2	A24 DB8 L
LC2	HY2	A26 SCLK H
LD2	HZ2	A28 RS3 L
LE2	JA2	A30 ATTN L
LF2	JB2	A32 RS4 H
LM2	JC2	A34 CTOD H
LJ2	JD2	A36 WR CLK L
LK2	JE2	A38 RUN L
LL2	JF2	A39 MBUS(N) SP3

4TH

FROM	TO	SIGNAL NAME
KP1	HK1	A1 MBUS(N) DB8 L
KR1	HL1	A3 DB8 H
KS1	HM1	A5 DB8 L
KT1	HN1	A7 DB8 H
KU1	HP1	A9 DB8 L
KV1	HR1	A11 DB8 H
KW1	HS1	A13 DB8 L
KX1	HT1	A15 DB8 H
KY1	HU1	A17 DB8 L
KZ1	HV1	A19 DB8 H
LA1	HW1	A21 DB8 L
LB1	HX1	A23 DB8 H
LC1	HY1	A25 SCLK L
LD1	HZ1	A27 RS3 H
LE1	JA1	A29 ATTN H
LF1	JB1	A31 RS4 L
LM1	JC1	A33 CTOD L
LJ1	JD1	A35 WR CLK H
LK1	JE1	A37 MBUS(N) RUN H
LL1	JF1	A40 GROUND
KP2	HK2	B3 MBUS(N) DB8 H
KR2	HL2	B4 DB8 L
KS2	HM2	B7 DB8 H
KT2	HN2	B9 DB8 L
KU2	HP2	B11 DB8 H
KV2	HR2	B12 DB8 L
KW2	HS2	B15 DB8 H
KX2	HT2	B16 DB8 L
KY2	HU2	B19 DB8 H
KZ2	HV2	B20 DB8 L
LA2	HW2	B23 DB8 H
LB2	HX2	B24 DB8 L
LC2	HY2	B27 RS8 H
LD2	HZ2	B28 RS8 L
LE2	JA2	B31 RS1 L
LF2	JB2	B32 RS1 H
LM2	JC2	B35 INIT H
LJ2	JD2	B36 INIT L
LK2	JE2	B39 MBUS(N) SP3 L
LL2	JF2	B40 GROUND



REV.	DATE	BY	CHK
1	11/13/76
2

QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLES 90° 30'		
	SURFACE QUALITY IN		
	CLASS OF ACCURACY		
	NOMINAL DIMENSION RANGE INCHES		
	DRN. B. D. 11/13/76		
	CHK'D. All King		
	ENG. B. D. 11/13/76		
	PROJ. ENG. B. D. 11/13/76		
	PROD. B. D. 11/13/76		
	DO NOT SCALE DWG		
	MATERIAL		
	FINISH		
	FIRST USED ON		
	TITLE		
	SIZE		
	SCALE		
	SHEET		