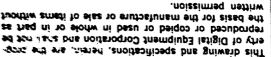


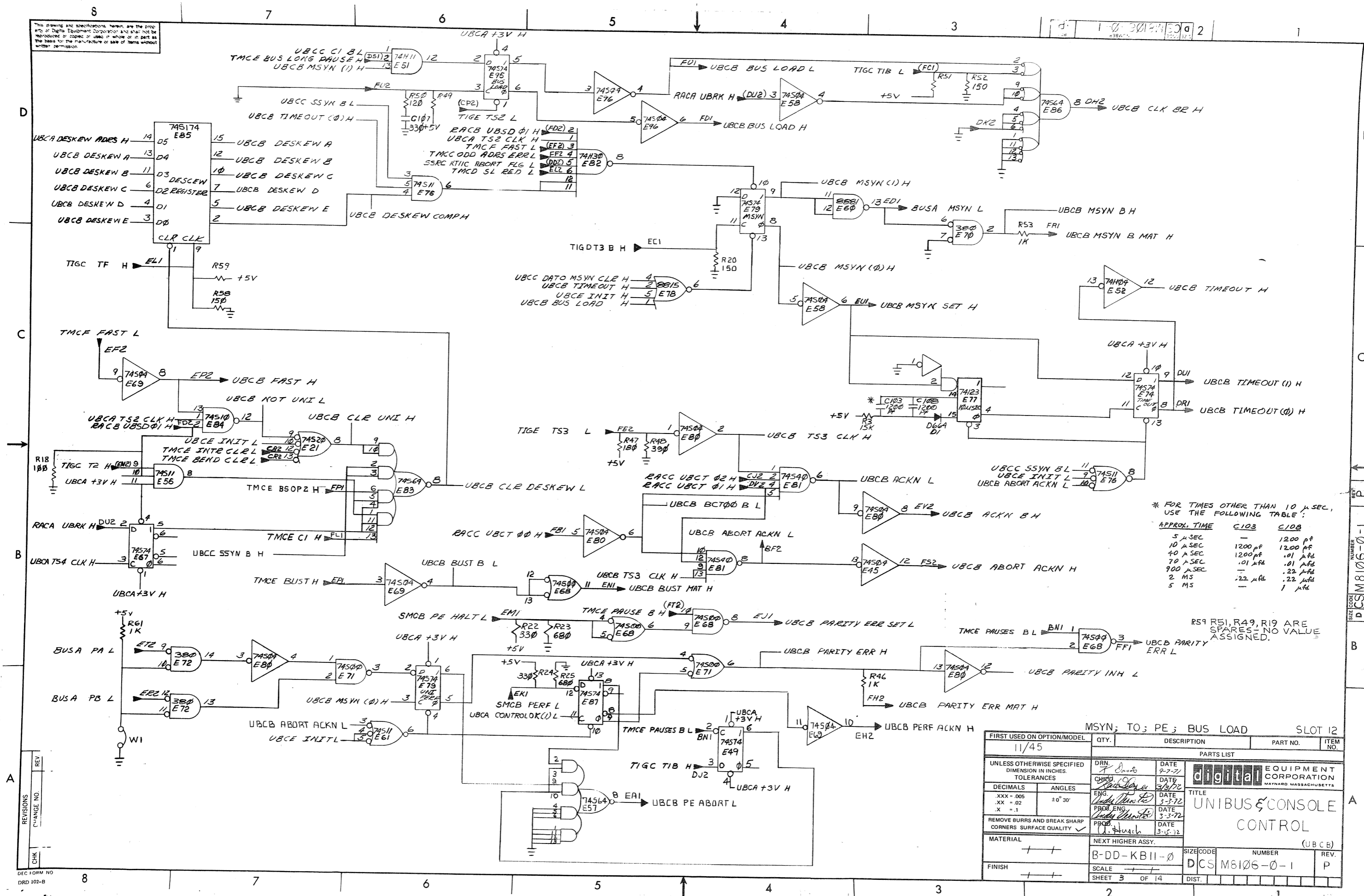
NOTES:
1. UNLESS OTHERWISE NOTED RESISTANCE IS IN Ω AND CAPACITANCE IS IN PICOFARADS. CAPS. WITHOUT VALUE NOTED ARE .01 MFD
2. RESISTOR R19, R49, R51, R54 AND R59 ARE SPARES-NO VALUES ASSIGNED

AA2, AV1, BA2, BV1, CA2, CV1, DA2, DV1, EA2, EV1, FA2, FV2
+5V +6.8M
GND C97 THRU C102, C112
C1 THRU C19, C21 THRU C29, C31 THRU C56, C58 THRU C96

REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	ETC BOARD REV			
2	DATE			
3	REV			
4	DATE			
5	REV			
6	DATE			
7	REV			
8	DATE			
9	REV			
10	DATE			
11	REV			
12	DATE			
13	REV			
14	DATE			
15	REV			
16	DATE			
17	REV			
18	DATE			
19	REV			
20	DATE			
21	REV			
22	DATE			
23	REV			
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36	DATE			
37	REV			
38	DATE			
39	REV			
40	DATE			
41	REV			
42	DATE			
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44	DATE			
45	REV			
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74	DATE			
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78	DATE			
79	REV			
80	DATE			
81	REV			
82	DATE			
83	REV			
84	DATE			
85	REV			
86	DATE			
87	REV			
88	DATE			
89	REV			
90	DATE			
91	REV			
92	DATE			
93	REV			
94	DATE			
95	REV			
96	DATE			
97	REV			
98	DATE			
99	REV			
100	DATE			

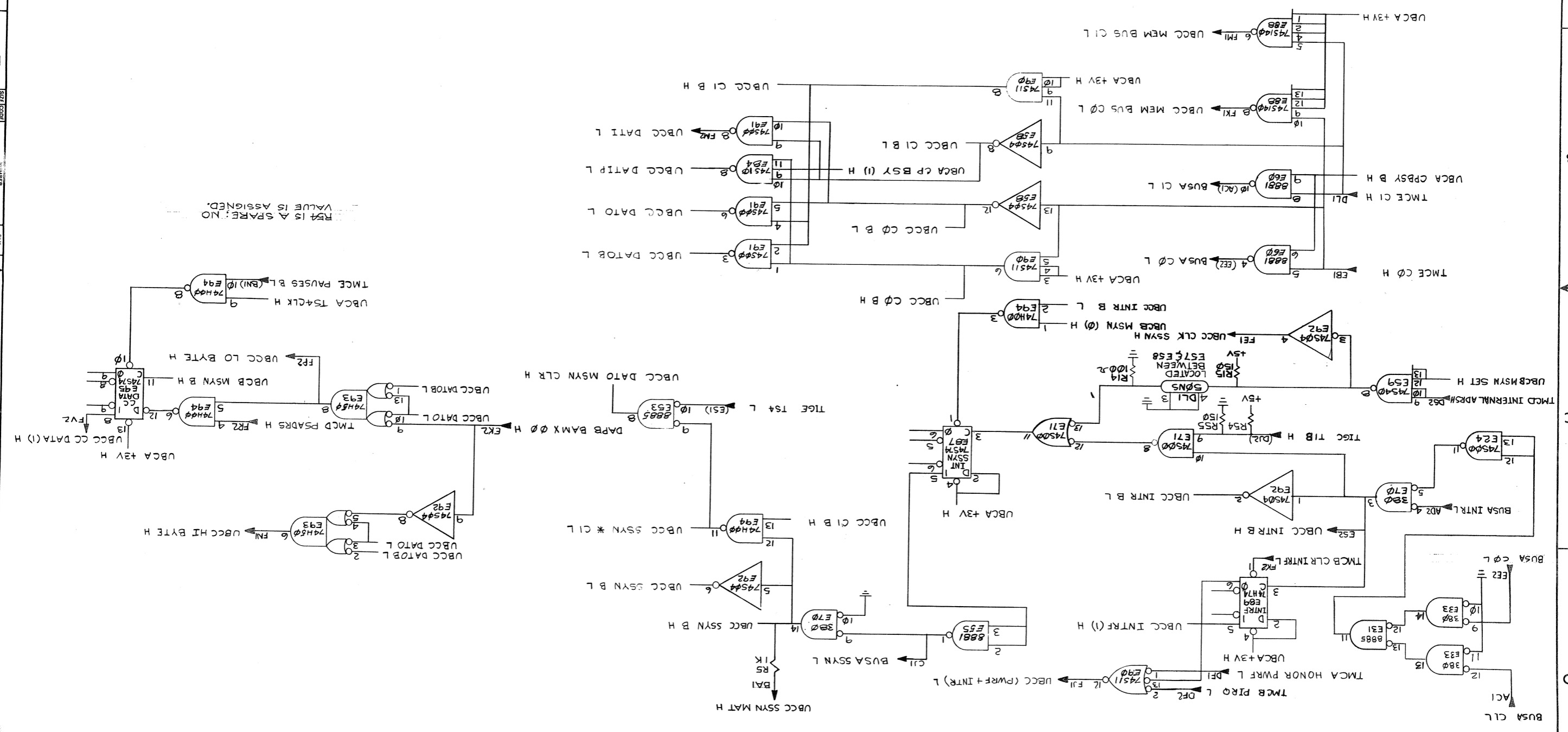
REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	ETC BOARD REV			
2	DATE			
3	REV			
4	DATE			
5	REV			
6	DATE			
7	REV			
8	DATE			
9	REV			
10	DATE			
11	REV			
12	DATE			
13	REV			
14	DATE			
15	REV			
16	DATE			
17	REV			
18	DATE			
19	REV			
20	DATE			
21	REV			
22	DATE			
23	REV			
24	DATE			
25	REV			
26	DATE			
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57	REV			
58	DATE			
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64	DATE			
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66	DATE			
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69	REV			
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72	DATE			
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85	REV			
86	DATE			
87	REV			
88	DATE			
89	REV			
90	DATE			
91	REV			
92	DATE			
93	REV			
94	DATE			
95	REV			
96	DATE			
97	REV			
98	DATE			
99	REV			
100	DATE			

1



FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
11/45									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>1000</i>		DATE <i>9-7-71</i>		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> digital </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> EQUIPMENT CORPORATION <small>NATYARD MASSACHUSETTS</small> </div>			
DECIMALS		CHND <i>1000</i>		DATE <i>9/3/72</i>					
ANGLES		ENG. <i>1000</i>		DATE <i>9-3-72</i>		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">TITLE</div> <div> UNIBUS 3 CONSOLE CONTROL </div> </div>			
.XXX = .005 .XX = .02 .X = .1		PBO, ENG. <i>1000</i>		DATE <i>9-3-72</i>					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY <input checked="" type="checkbox"/>		PBO. <i>1000</i>		DATE <i>9-5-72</i>					
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE		NUMBER		REV.	
+ + +		B-DD-KBII-Ø		DCS		M8106-Ø-1		P	
FINISH		SCALE		SHEET		OF		DIS.	
+ + +		1 OF 14		3		4			

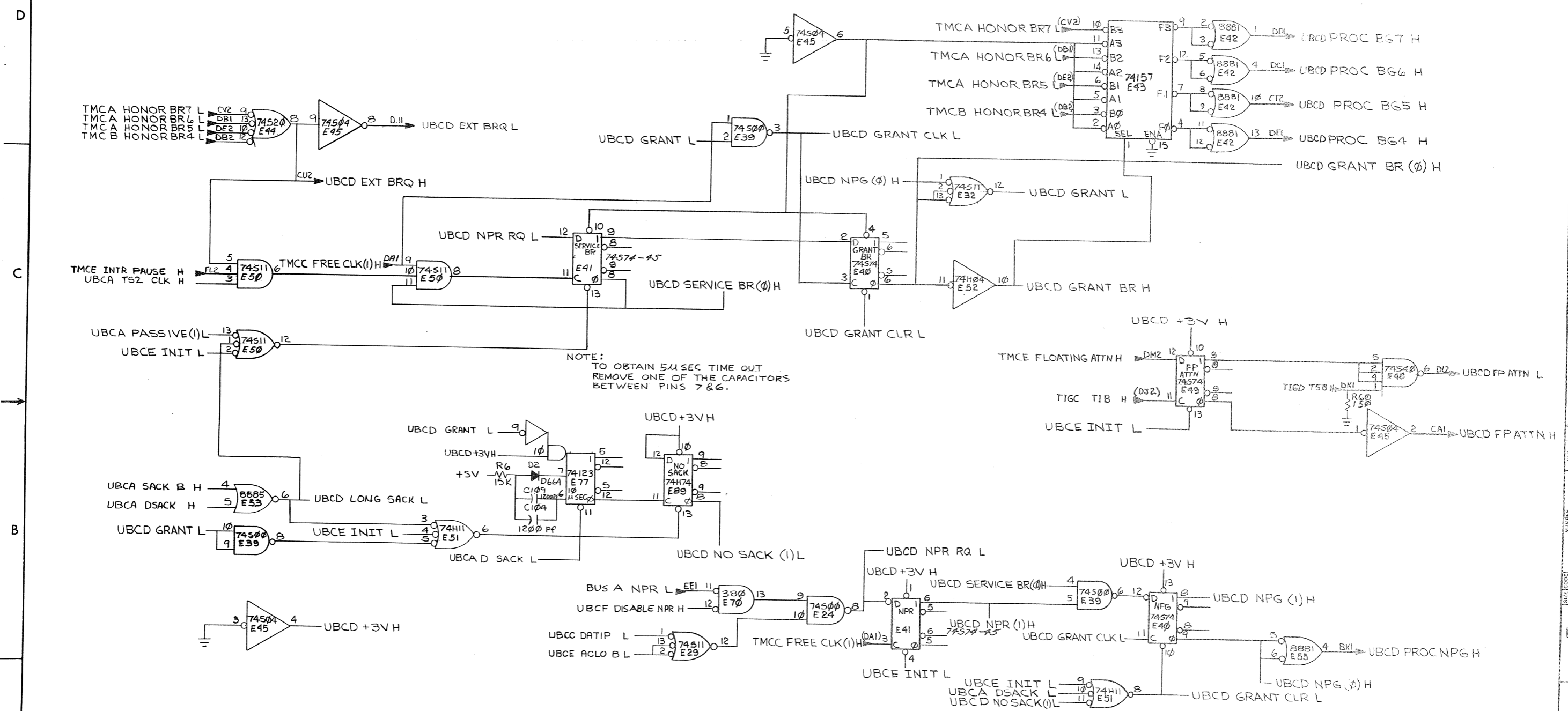
INTERNAL SSYN, INTRF, CC DATA		SLOT 12	
PARTS LIST		ITEM NO.	
DESCRIPTION		PART NO.	
QTY.		11/45	
UNLESS OTHERWISE SPECIFIED		11/45	
DIMENSION IN INCHES.			
TOLERANCES			
DECIMALS		ANGLES	
X.XX = .005		±.0° 30'	
X.X = .02			
X' = .1			
REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY ✓			
MATERIAL			
NEXT HIGHER ASSY.			
B-DD-KB11-0			
SCALE 1/1			
SHEET 4 OF 14			
DIST.			
D CS			
NUMBER			
REV. P			
(UBCC)			
UNIBUS & CONSOLE CONTROL			
TITLE			
MAYNARD MASSACHUSETTS			
CORPORATION			
EQUIPMENT			
DIGITAL			
DATE 2/24/71		DRN	
DATE 3/5/72		CHKD	
DATE 3-7-72		ENG. [Signature]	
DATE 3-7-72		PROD. ENG. [Signature]	
DATE 3-7-72		PHOD. [Signature]	



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1-0-9018WSC 2

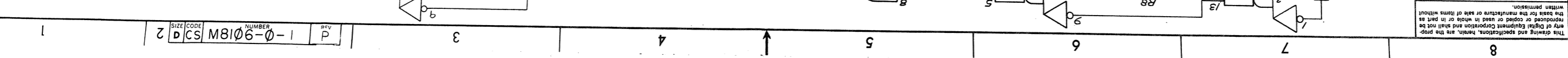


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS		CHRY	DATE		
ANGLES		ENG	DATE	TITLE UNIBUS & CONSOLE CONTROL	
.XXX = .005		PROJ	DATE		
.XX = .02		PROJ	DATE	UNIBUS & CONSOLE CONTROL	
.X = .1		PROJ	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ	DATE	UNIBUS & CONSOLE CONTROL	
MATERIAL		PROJ	DATE		
FINISH		PROJ	DATE	UNIBUS & CONSOLE CONTROL	
		PROJ	DATE		

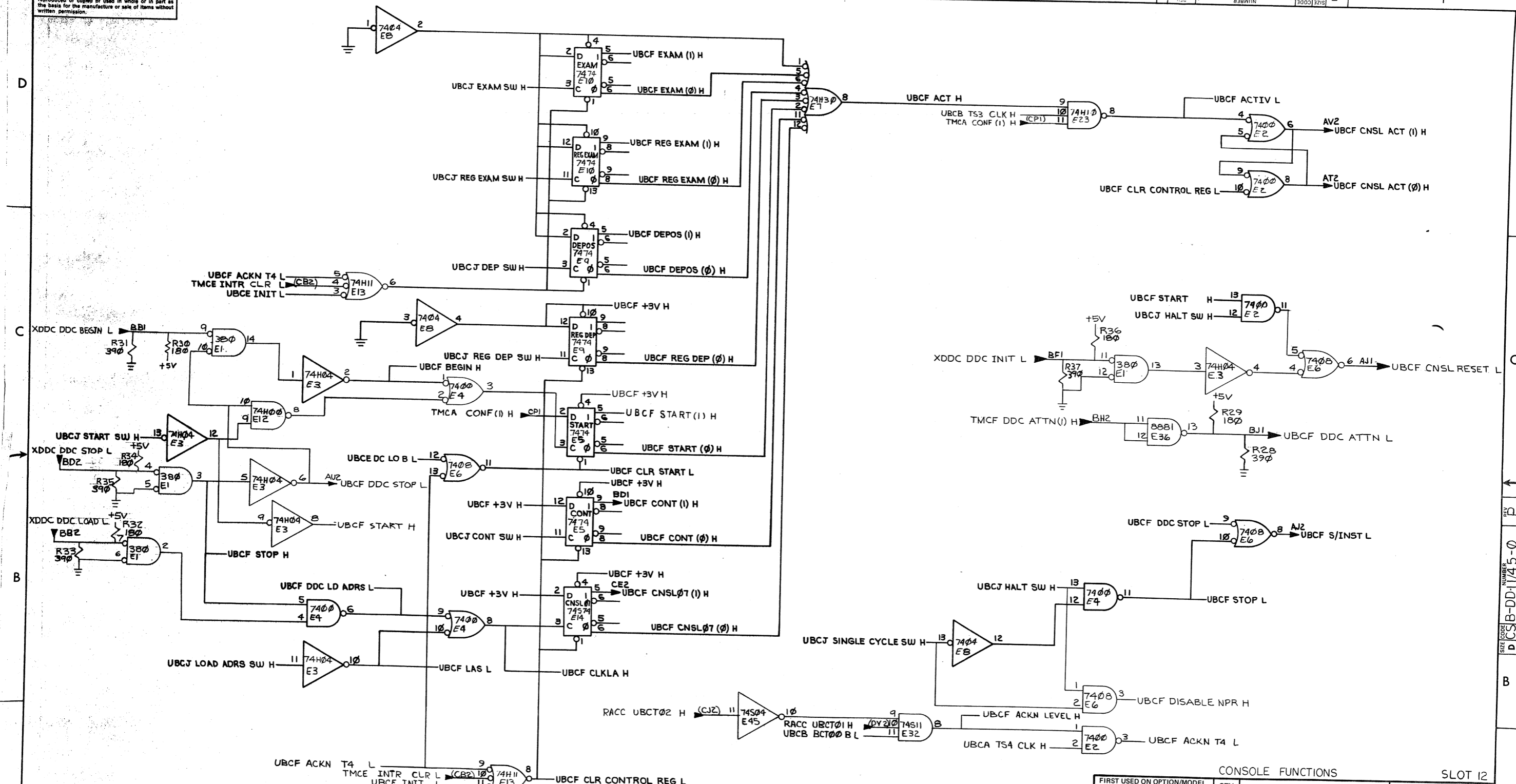
NEXT HIGHER ASSY.		SIZE CODE	NUMBER	REV.
B-DD-KBII-0		D	CSM8106-0-1	P
SCALE		SHEET	5 OF 14	DIST.

1

SIZE	CODE	NUMBER	REV
2	D	CS M8106-0-1	P



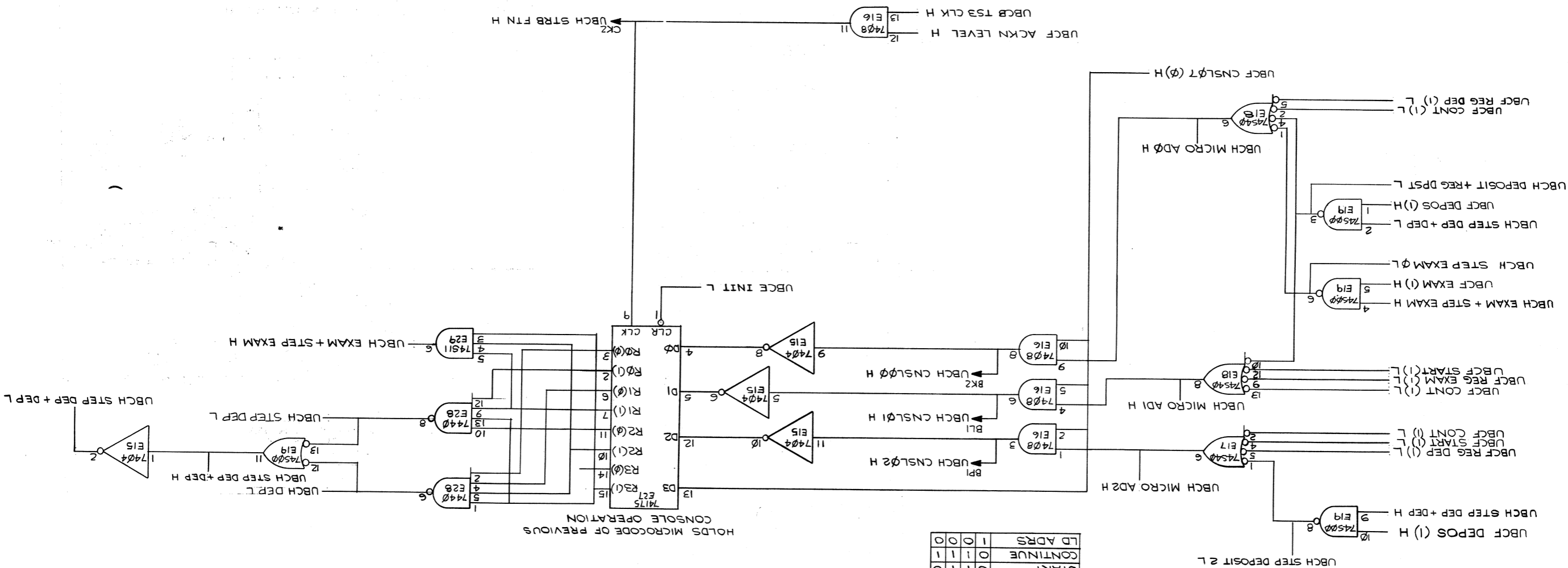
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REV		CHANGE NO.		CHK		DEC FORM NO		DRD 102-B	
11/45		6/25/71		3-3-72		3-15-72		3-15-72	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN S.W. <i>Roberts</i>		DATE <i>6/25/71</i>		DATE <i>8/3/72</i>		DATE <i>3-3-72</i>	
DECIMALS .XXX = .005 .XX = .02 .X = .1		ANGLES ± 0° 30'		ENG. <i>John J. Roberts</i>		DATE <i>3-3-72</i>		DATE <i>3-15-72</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROZ/ENG <i>John J. Roberts</i>		DATE <i>3-3-72</i>		DATE <i>3-15-72</i>		DATE <i>3-15-72</i>	
MATERIAL <i>11</i>		NEXT HIGHER ASSY.		B-DD-KB11-0		SIZE CODE <i>D</i>		NUMBER <i>M8106-0-1</i>	
FINISH <i>11</i>		SCALE <i>11</i>		SHEET <i>7 OF 14</i>		DIST.		REV. <i>P</i>	

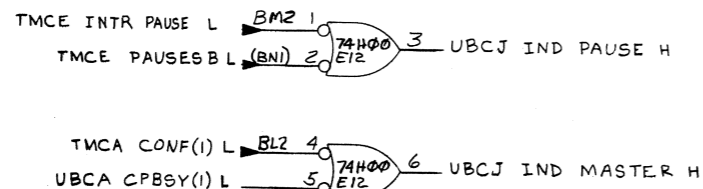
CONSOLE FUNCTIONS				SLOT 12	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
11/45					
PARTS LIST					
<div>digital</div> <div>EQUIPMENT CORPORATION</div> <div>MAYNARD, MASSACHUSETTS</div>					
TITLE					
UNIBUS & CONSOLE CONTROL (UBCF)					
SIZE CODE					
D					
NUMBER					
M8106-0-1					
REV.					
P					
SHEET					
7 OF 14					

MICRO		CONSOLE	
ADRS BIT		FUNCTION	
7	2	1	0
EXAM	0	0	0
STEP EXAM	0	0	0
REG EXAM	0	0	1
DEPOSIT	0	0	1
STEP DEPOSIT	0	1	0
REG DEPOSIT	0	1	0
START	0	1	1
CONTINUE	0	1	1
LD ADRS	1	0	0



FIRST USED ON OPTION/MODEL						11/45	
UNLESS OTHERWISE SPECIFIED							
DIMENSIONS IN INCHES							
TOLERANCES							
DECIMALS				ANGLES			
.XXX - .005 .XX = .02 .X = .1				$\pm 0.30^\circ$			
<input checked="" type="checkbox"/> REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY							
MATERIAL							
FINISH							
QTY.				SCALE			
DESCRIPTION				PARTS LIST			
ITEM NO.		PART NO.					
CONSOLE & ADDRESS SLOT 12							

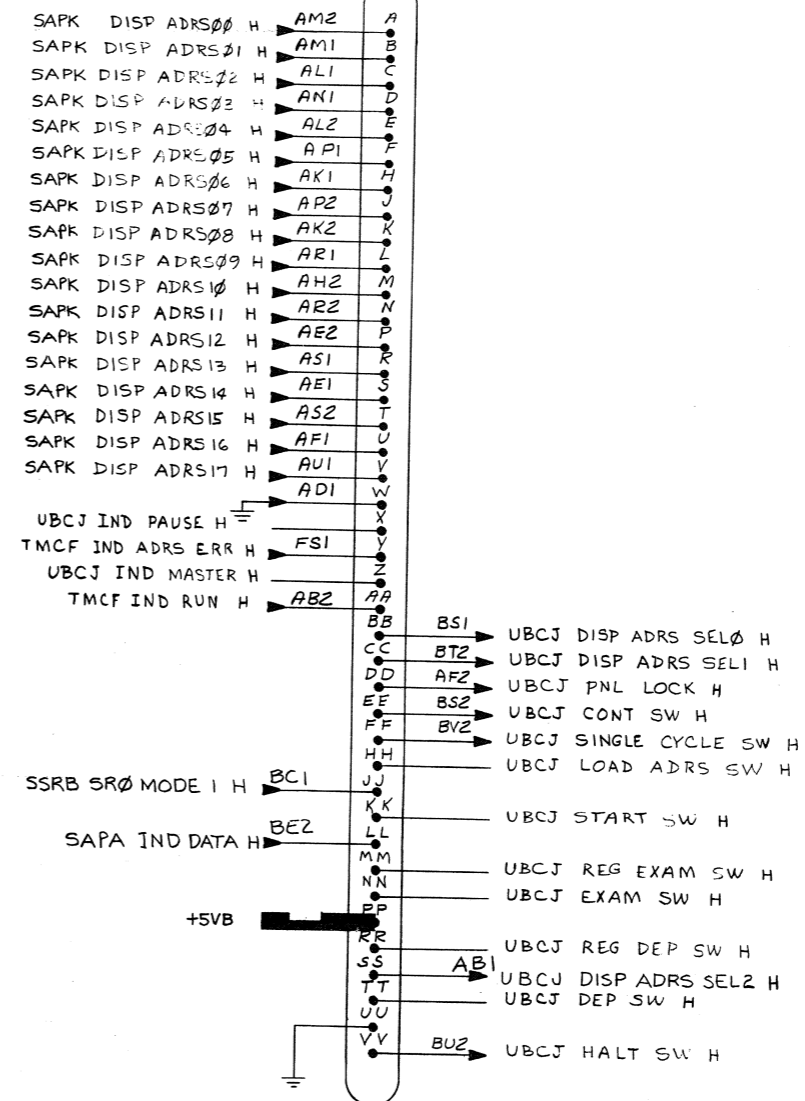
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UBC/KNL INTERFACE

SIGNALS TO CONSOLE

SIGNALS FROM CONSOLE

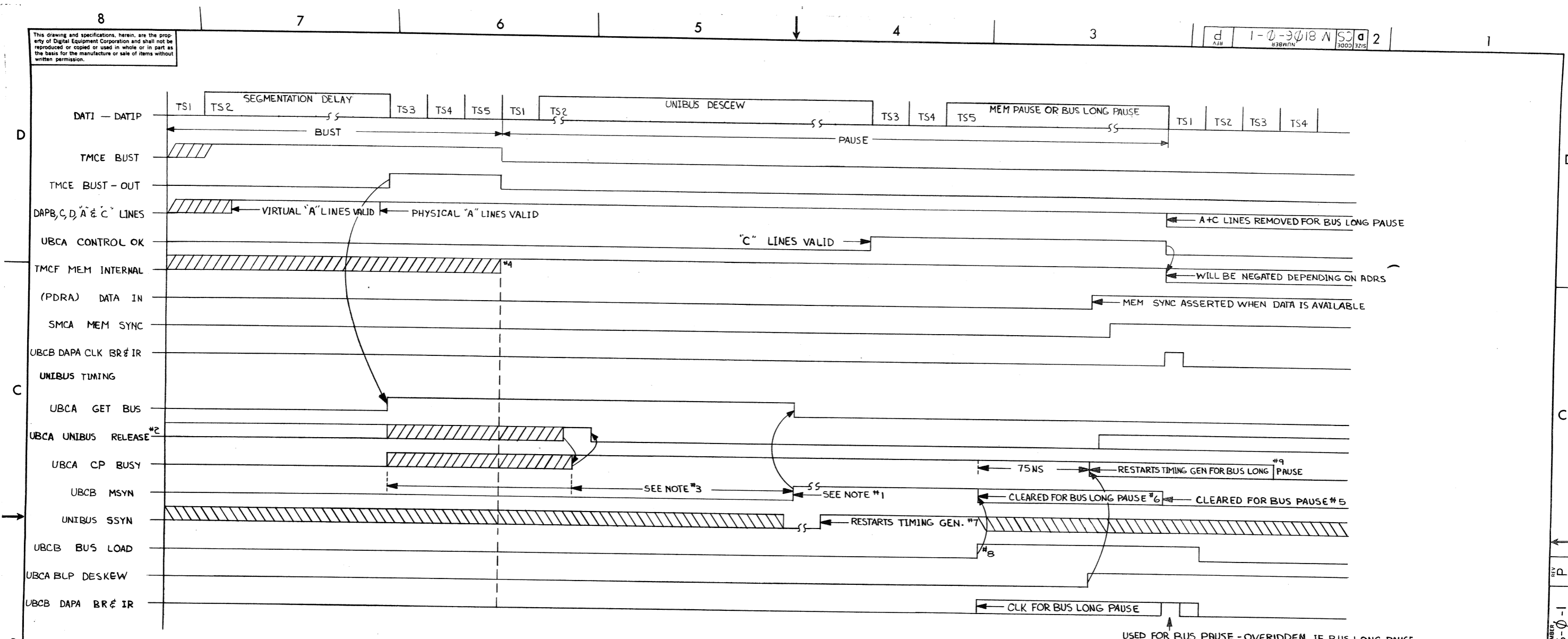


7008864

CONSOLE CABLE; INDICATORS SLOT 12

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN	DATE	<div>digital EQUIPMENT CORPORATION</div> <div>MAYNARD, MASSACHUSETTS</div> <div>TITLE</div> <div>UNIBUS & CONSOLE CONTROL</div> <div>(UBCJ)</div>	
DECIMALS	ENG	DATE		
ANGLES	PROJ ENG	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ	DATE		
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE		DCS M8106-0-1	REV.
	SHEET 9 OF 14		DIST.	p

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1. MSYN IS NOT SET IF ODD ADRS, SEGMENTATION, PARITY OR STACK LIMIT ERROR HAS OCCURED. ERROR CONDITION RESTARTS TIMING GENERATOR AND ROM IS FORCED TO ZAP. 00
2. UNIBUS RELEASE = -(NPG + NPR + DSACK + BBSY)
3. MSYN IS SET 150 NS AFTER CP BUSY IS SET OR WHENEVER SSYN IS NOT PRESENT AFTER THE 150NS DESCEW
4. IF ADRS IS INTERNAL OR SOLID STATE MEMORY UNIBUS CNTL LOGIC IS CLEARED, DESCEW STOPPED, MSYN NOT ASSERTED.
5. BUS PAUSE - ADRS WILL NOT BE CHANGED IMMEDIATELY UPON EXITING PAUSE STATE

6. BUS LONG PAUSE - 75NS ADRS DESCEW AFTER NEGATION OF MSYN MUST BE DONE BEFORE TIMING GEN. RESTARTS AT TS OF PAUSE CYCLE BECAUSE A & C LINES WILL CHANGE UPON EXITING PAUSE STATE.
7. IF NON-EXISTANT MEMORY, TIMEOUT RESTARTS CLOCK.
8. BUS LOAD IS SET ONE CLOCK AFTER TS TO ALLOW COMPLETION OF WRITE TO SCRATCHPAD FOR PREVIOUS CYCLE BEFORE NEW TR & BR ARE LOADED
9. CLEARED 75NS AFTER MSYN → 0: T4 FOR BUS PAUSE

NOTE:

IF PROCESSOR HAS M8104 REV C AND KBII-A ECO #13 USE PRINT UBCP FOR UNIBUS TIMING.

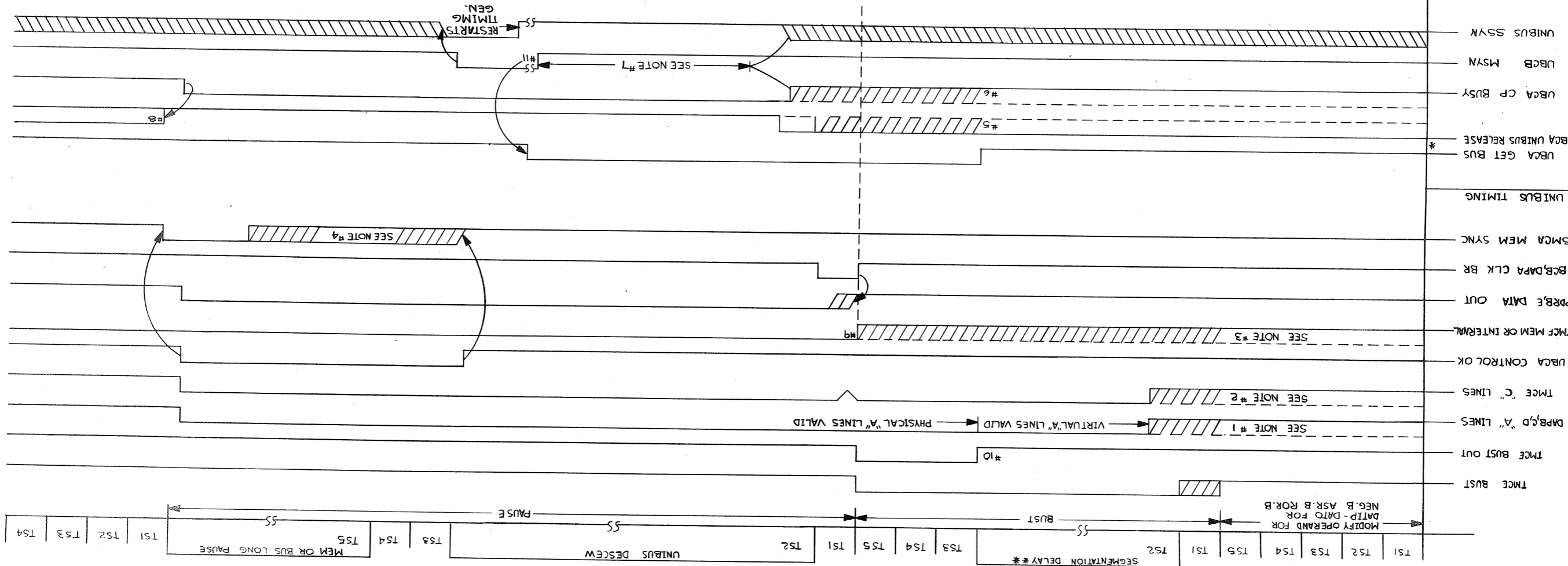
DATI - DATIP TIMING DIAGRAM				SLOT 12	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE 7/12/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
DECIMALS	ANGLES	DATE 7/12/72	TITLE UNIBUS & CONSOLE CONTROL		
XXX = .005 XX = .02 X = .1	± 0° 30'	DATE 7/12/72	REV. P		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 7/12/72	NUMBER M8106-0-1		
MATERIAL		DATE 7/12/72	SHEET 11 OF 14		
FINISH		DATE 7/12/72	DIST.		

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NOTE:
IF PROCESSOR HAS M8104 REV "C"
AND KB1-A ECO #13 USE PRINT
UBCP FOR UNIBUS TIMING.

1. ADDRESS WILL NOT BE CHANGING IF DATI IS PRECEDED BY DATIP (DOTTED LINE SHOWS DATIP)
2. CONTROL LINES WILL SHOW DATIP OR ELSE ARE INVALID UNTIL CONTROL OK
3. MEM OR INTERNAL WILL BE TRUE UPON ENTERING DATI IF ADDRESS WAS SEMI CONDUCTOR MEMORY OR INTERNAL FROM PREVIOUS DATIP
4. MEM SYNC IS ASSERTED BY SEMI CONDUCTOR MEMORY AS SOON AS DATI IS TAKEN-IF DATA IS TAKEN AND MEM SYNC ASSERTED PRIOR TO STOPPED IN TRS
5. UNIBUS RELEASE WILL NOT BE TRUE IF PREVIOUS OPERATION WAS A DATIP TO A UNIBUS ADDRESS.
6. CP BUSY WILL BE ASSERTED UPON ENTRY INTO DATI ADDRESS

NOTES:
* UNIBUS RELEASE = $-(NPR + NPG + BBSY + SACK)$



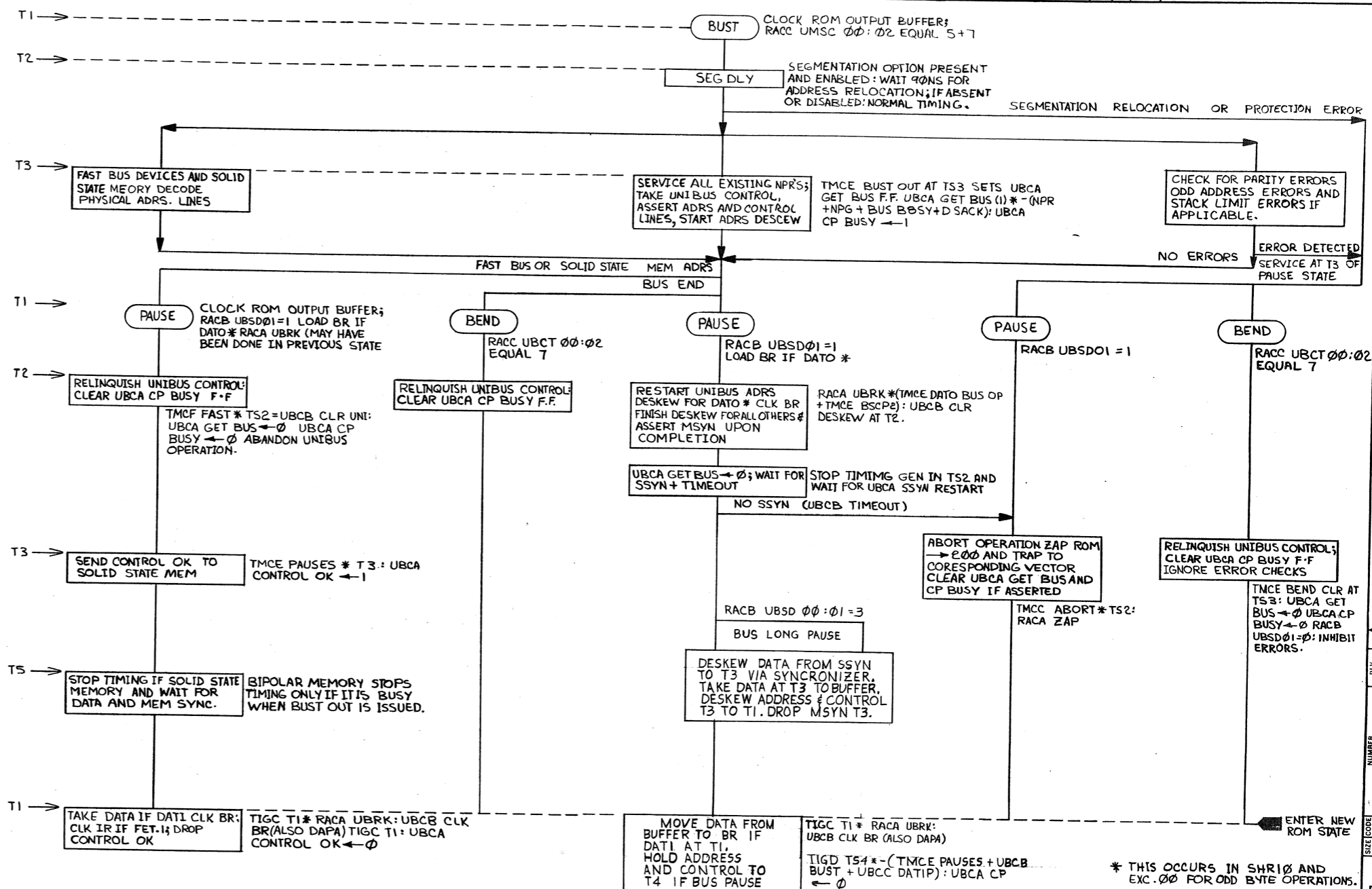
7. DESKVIEW FOR A "C" "D" LINES IS LEADS STARTING WHEN CP BUSY IS SET AND SSYN FROM THE PREVIOUS BUS OPERATION IS NEGATED.
8. UNBUS RELEASE BECOMES TRUE IF NO NPR DEVICE HAS BEEN GIVEN CONTROL OR IS REQUESTING PRIOR TO CP BUSY GETTING CLEARED
9. IF ADDRESS IS SEMI CONDUCTOR MEMORY OR INTERNAL, UNBUS LOGIC IS CLEARED DESKVIEW IS STOPPED AND MSYN IS NOT ASSERTED.
10. BUSY ON SM125 IS INHIBITED IN ~~TRD00~~ FOR CONDUCTOR BUSY(MSC=5) IF BIN # SM125+BR INSTR # BRQ TRUE+ DM125 *- (BIN# SM125+BR INSTR)
11. MSYN IS NOT SET IF AN ODD ADDRESS, STACK LIMIT RED SEGMENTATION OR PARITY ERROR HAS OCCURRED

NOTE: 1. ALL SIGNALS ARE SHOWN TRUE WHEN HIGH


FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PARTS LIST			
11/45									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES						DECIMALS			
ANGLES						$\pm .005$ $.XX = .02$ $X.X = .1$			
						REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY ✓			
DATE		CHK'D BY		DATE		DATE		TITLE	
5/2/72		[Signature]		5/2/72		5/2/72		UNIBUS & CONSOLE CONTROL	
NEXT HIGHER ASSY		B.DD-KB11-A		SCALE		FINISH			
SIZE CODE		CS M 810-6-Ø -1		DIST.					
NUMBER		REV.		(UBCM)					

DATO TIMING DIAGRAM

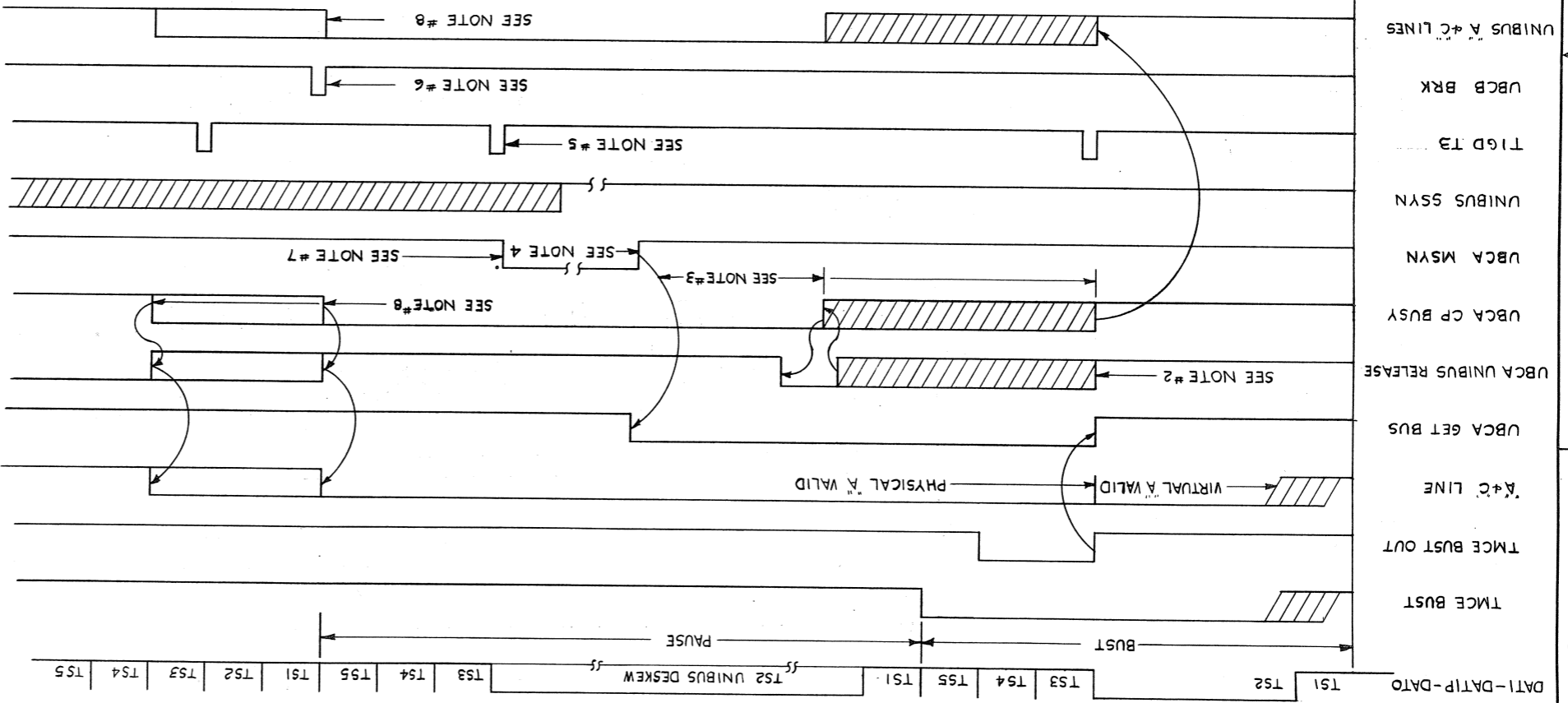
SLOT 12



SLOT 12

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.		ITEM NO.
11/45			PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRW/ <i>W. J. Owen</i>	DATE/ <i>3/11/72</i>	 digital EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small>			
DECIMALS ANGLES		CHK'D/ <i>W. J. Owen</i>	DATE/ <i>4/20/72</i>				
XXX = .005 .XX = .02 .X = .1	± 0° 30'	ENG/ <i>W. J. Owen</i>	DATE/ <i>4/20/72</i>				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY <input checked="" type="checkbox"/>		PROD. ENG/ <i>W. J. Owen</i>	DATE/ <i>4/20/72</i>	TITLE UNIBUS & CONSOLE CONTROL			
		PROD/ <i>W. J. Owen</i>	DATE/ <i>5-1-72</i>				
MATERIAL		NEXT HIGHER ASSY.		(UBCN)			
+ + +		B-DD-KBI1-A		SIZE CODE		NUMBER	REV.
FINISH		SCALE + + +		D C S		M 8106-0-1	P
+ + +		SHEET 13 OF 14		DIST.			

CHK	REVISIONS
CHANGE NO.	REV.



- NOTES:
- #1 MSYN IS NOT SET IF ODD ADDRESS, KTRIC, PARITY OR STACK LIMIT HAS OCCURRED. ERROR CONDITION RESTARTS TIMING GEN. AND ROM IS FORCED TO ZAP.00
 - #2 UNIBUS RELEASE = -(NPG + NPR + SACK + B BUSY)
 - #3 MSYN IS SET 150 NS AFTER CP BUSY OR WHENEVER SSYN IS NOT PRESENT AFTER 150 NS DESKEW.
 - #4 IF ADRES IS INTERNAL OR SOLID STATE MEMORY, UNIBUS CONTROL LOGIC IS CLEARED, DESKEW STOPPED, MSYN NOT ASSERTED.
 - #5 T3 STROBES UNIBUS DATA TO BUS BUFFER REGISTER EVERY T3. FOR DAT1-DAT1P THE BR CLOCK IS NEXT T1
 - #6 BRK IS DEPENDENT ON ROM TO LOAD BUS TO BR.
 - #7 T5NS DESKEW FOR MSYN IS OBTAINED BY THE FACT THAT SSYN MUST GO THROUGH 2 RANKS OF SYNCHRONIZATION
 - #8 FOR BUS LONG PAUSE ADDRESS + CONTROL IS DESKEWED FROM T3 TO T1. FOR BUS PAUSE THEY ARE HELD TO T54 OF THE NEXT ROM CYCLE.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED		DIMENSION IN INCHES			
TOLERANCES		ANGLES			
DECIMALS		.XXX = .005			
.XX = .02		.X = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROOF			
MATERIAL		NEXT HIGHER ASSY.			
FINISH		SCALE			
SHEET 14 OF 14		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
CORPORATION		DATE			
MAYNARD MASSACHUSETTS		DATE			
TITLE		DATE			
PARTS LIST		DATE			
REV.		DATE			
P		DATE			
D		DATE			
CS		DATE			
M8106-0-1		DATE			
UNIBUS CONTROL		DATE			
EQUIPMENT		DATE			
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