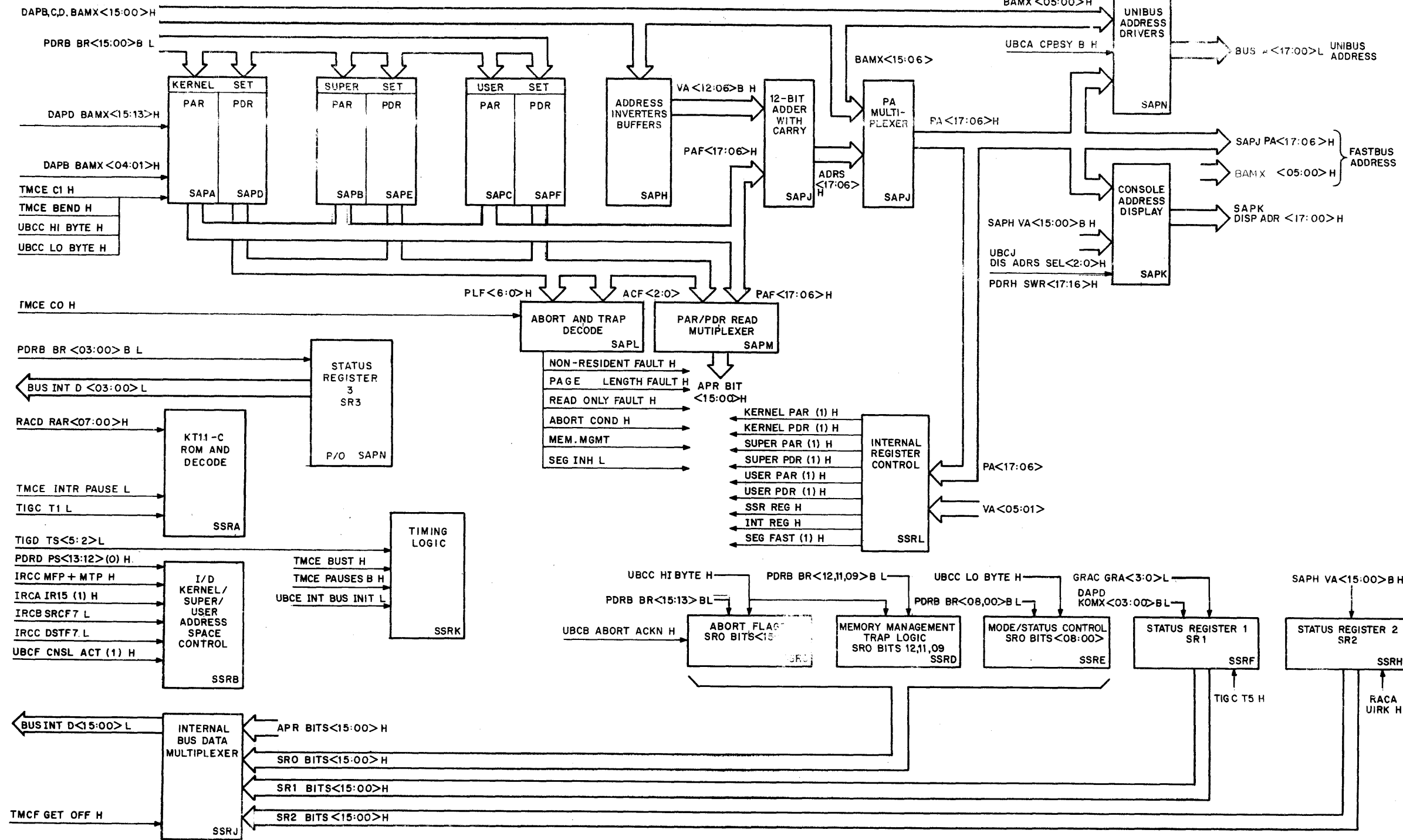


KT11-C
memory
management unit
engineering drawings

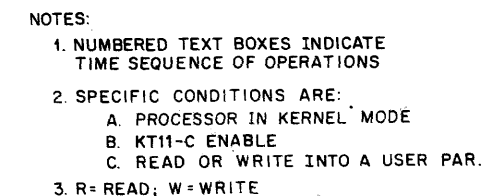
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FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/15					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
DECIMALS	ANGLES	CHKD	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS (U.S.A.)	
.XXX ± .006	± 0° 30'	ENG	DATE		
.XX ± .02		PROJ. ENG.	DATE		
.X ± .1		PROD.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY				TITLE HDD-K DIA. RAIL	
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		SCALE		D10-KTH-C-1	REV.
		SHEET 1 OF 5		DIST	

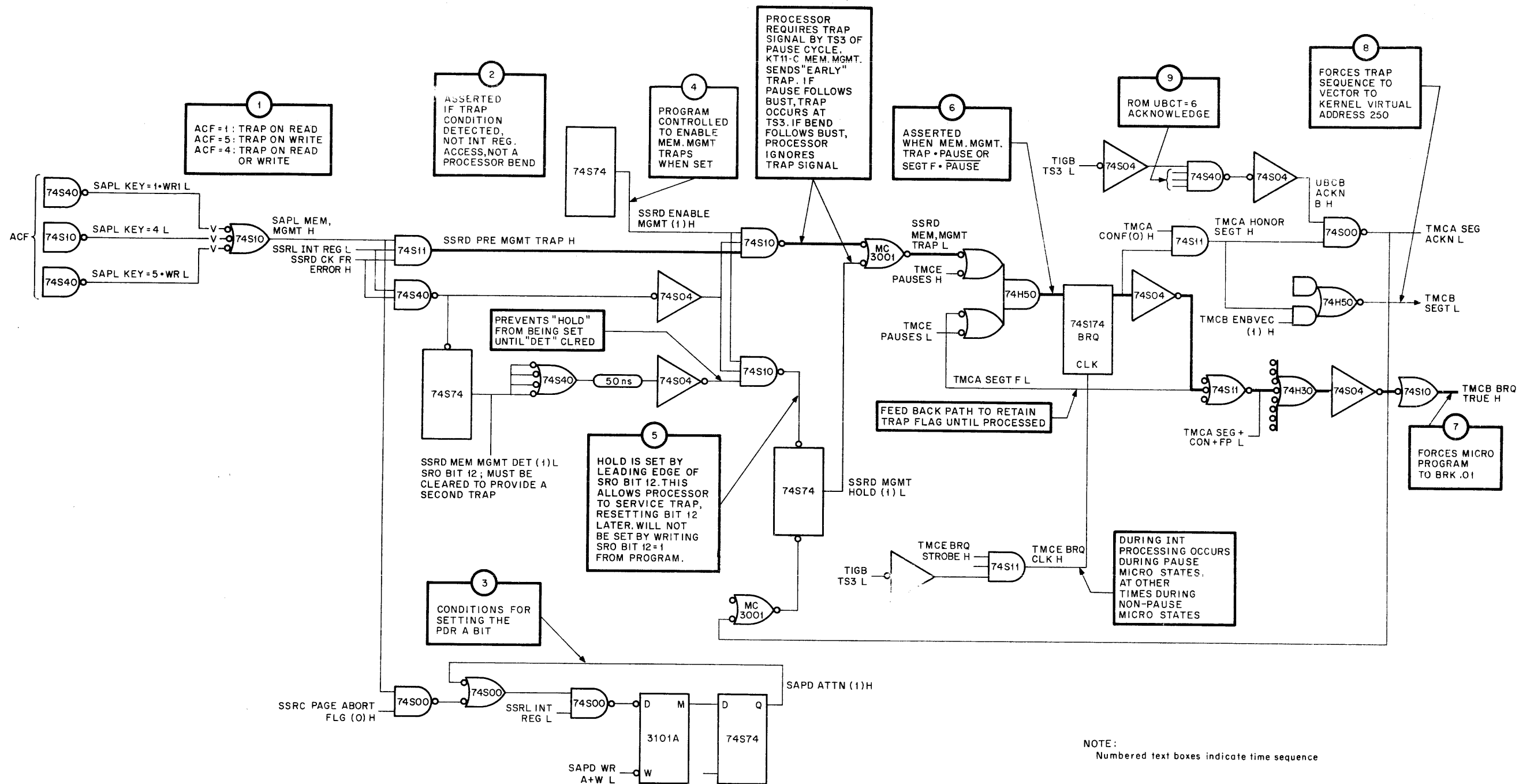
REV.	CHANGE NO.	DATE
1	1	11/15

DRD 102-B



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.		ITEM NO.
11/45			PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRAW.	DATE		 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
		CHKD.	DATE				
DECIMALS	ANGLES	ENG.	DATE		TITLE		
XXX = .005 X = .02 XX = .1	± 0° 30'	PROV. ENG.	DATE				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD.	DATE		L-1111 1-1111		
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE		NUMBER	REV.
+ - +		E 111111		D		EDCAT-1-2-1	
FINISH		SCALE		DIST.			
1 1		SHEET 11 OF 55					

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NOTE:
Numbered text boxes indicate time sequence

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
DECIMALS		CHK	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ANGLES		ENG	DATE	TITLE	
XXX = .005 XX = .02 X = .1		PROJ-ENG	DATE	BLOCK DIAGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE	SIZE CODE	
MATERIAL		NEXT HIGHER ASSY.		NUMBER	
FINISH		SCALE		REV.	
SHEET				DIST.	

REV	CHANGE NO	CHK

DWG FORM NO
DWD 100-A

8

7

6

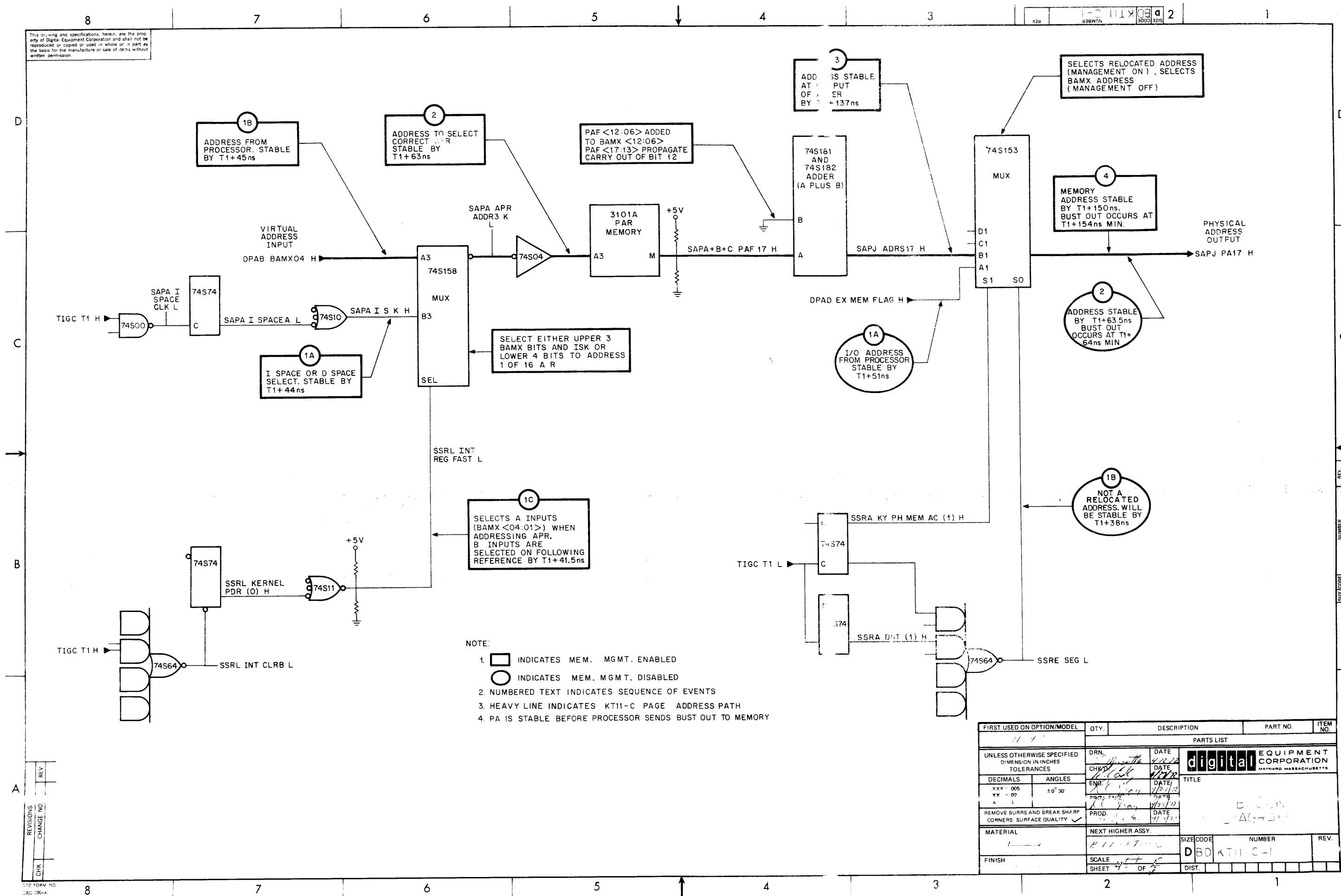
5

4

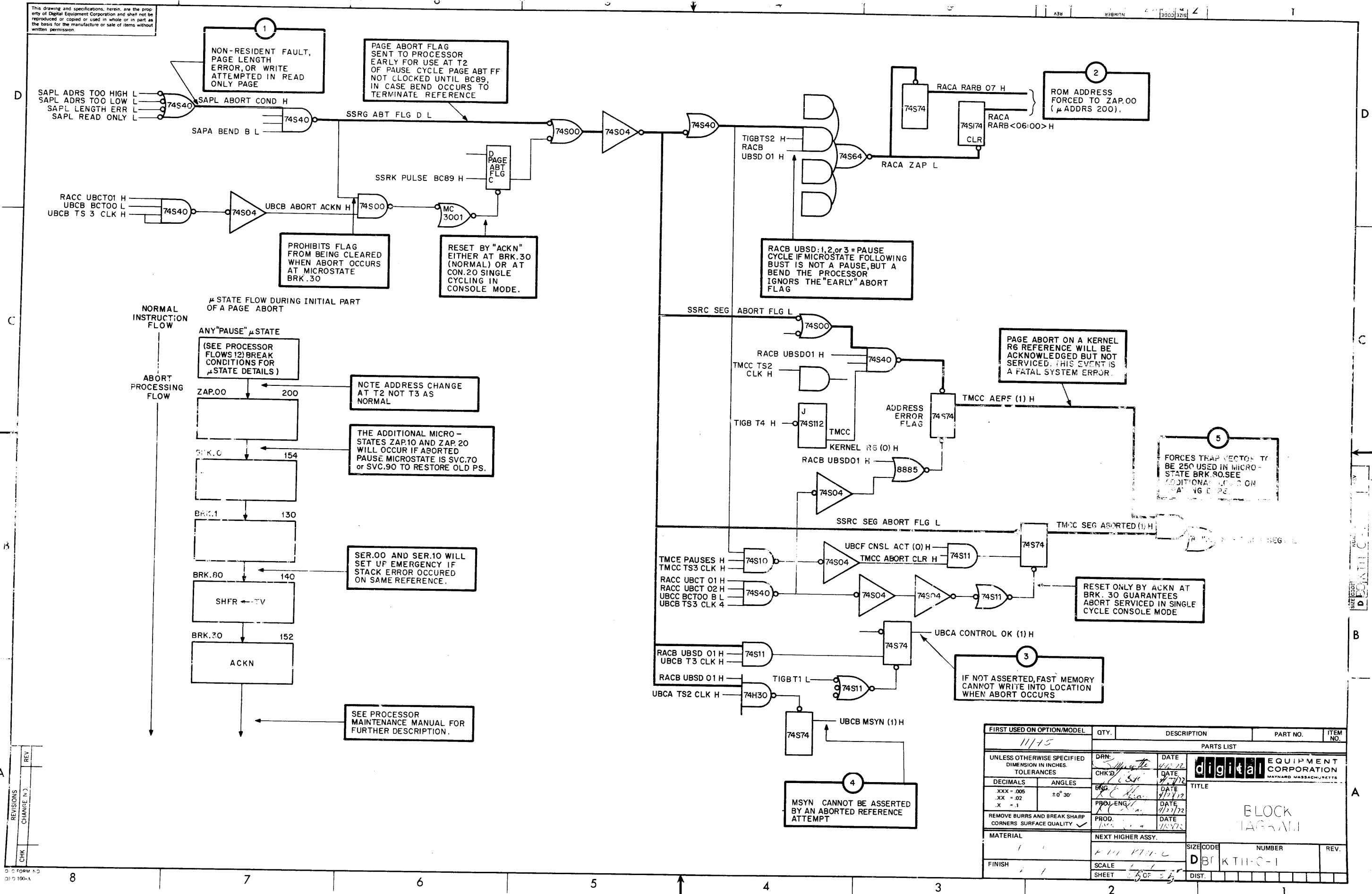
3

2

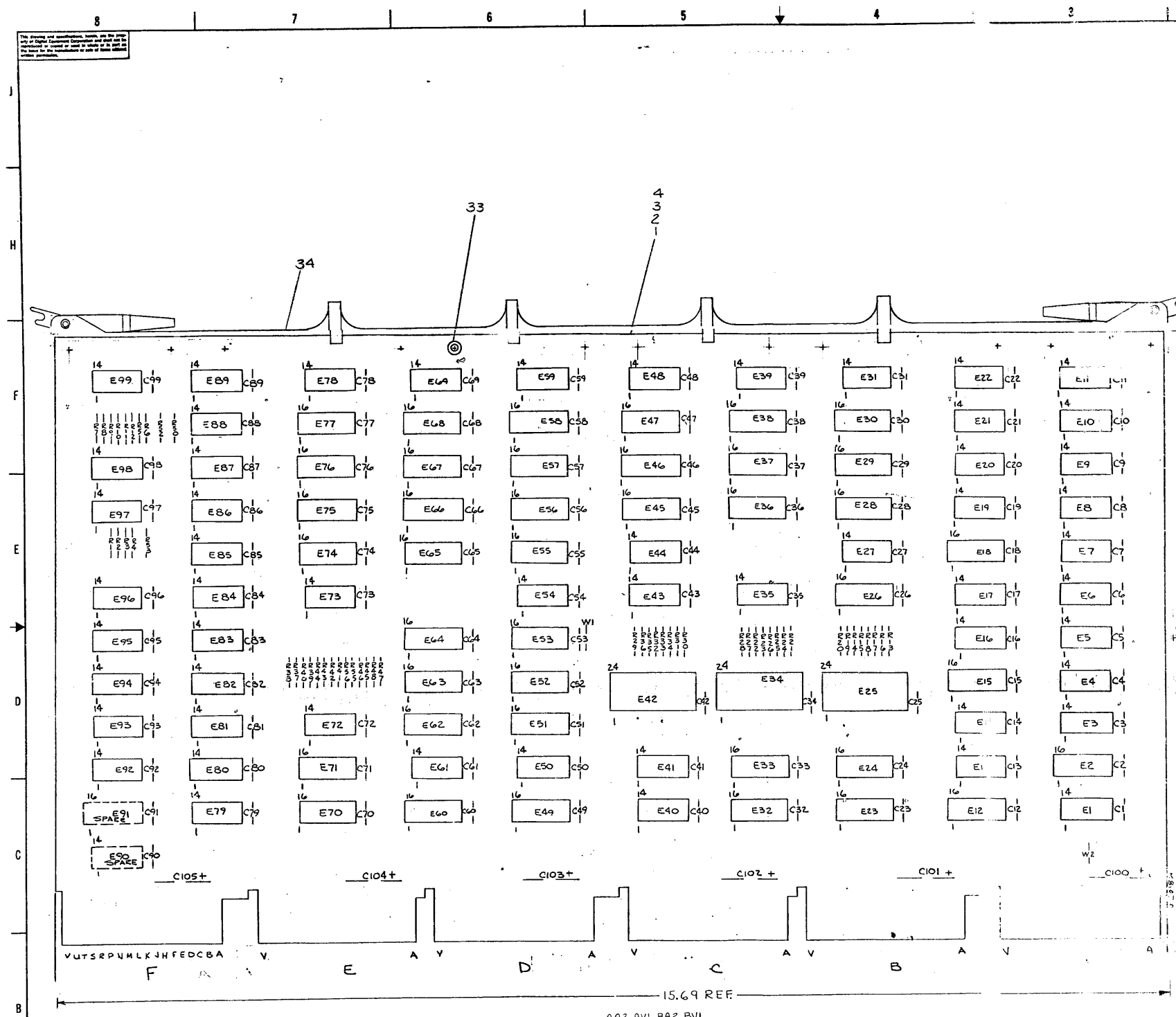
1



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FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/75					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
		CHK'D	DATE		
DECIMALS	ANGLES	ENG	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
XXX = .005		PROJ ENG	DATE		
XX = .02		PROD.	DATE		
X = .1				TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				BLOCK	
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	
FINISH		SCALE		NUMBER	
		SHEET		REV.	
				DIST.	

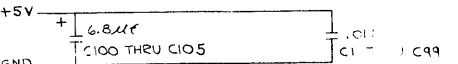


NOTES:
1. UNLESS OTHERWISE NOTED RESISTANCE IS IN OHMS AND CAPACITANCE IS IN PICO FARADS. CAPS. WITHOUT VALUE NOTED ARE .01 MFD.

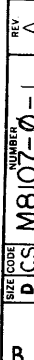
ITEM NO.	HANDLE, MODULE	QTY	REF. DESIGNATION
1	HANDLE, MODULE	1	8-PS-1210711-234
12	EYELET	33	9006732
1	E5	1	IC DEC 74H04 1909931
1	E2	1	IC DEC 74S174 1910550
1	E1	1	IC DEC 74S03 1910533
2	F9, E99	1	IC DEC 74S64 1910542
6	E4, E79, E86, E87, E93, E94	1	IC DEC 74S00 1910532
10	E3, E6, E11, E14, E27, E44, E54, E73, E92, E98	1	IC DEC 74S04 1910534
2	E81, E88	1	IC DEC 74S10 1910536
5	E7, E35, E43, E84, E89	1	IC DEC 74S11 1910537
1	E95	1	IC DEC 7437 1910091
1	E80	1	IC DEC 74H30 1909059
9	E10, E31, E39, E48, E59, E69, E78, E82, E83	1	IC DEC 74S40 1910541
1	E51	1	IC DEC 74S153 1910547
4	E8, E96, E97, E72	1	IC DEC 74S74 1910544
2	E10, E11	1	IC DEC 7485 1910224
3	E23, E24, E32, E33, E52, E53, E63, E64	1	IC DEC 74S157 1910548
1	E62	1	IC DEC 74153 1909937
2	E18, E26	1	IC DEC 74S158 1910549
3	E25, E34, E42	1	IC DEC 74S181 1910531
1	E15	1	IC DEC 74182-1 1910551
5	E13, E16, E17, E40, E41	1	IC DEC 8881 1909105
3	E12, E49, E60	1	IC DEC 74157 1910655
21	E28, E29, E30, E39, E37, E38, E45, E46, E47, E55, E56, E57, E58, E65, E66, E67, E68, E74, E75, E76, E77	1	IC DEC 3101A 1910653
7	E19, E20, E21, E22, E50, E41, E85	1	IC DEC 3001 1909514
25	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R56	1	RESISTOR 620A, 1/4W, 5% 1303175
25	R31, R33, R35, R37, R39, R41, R43, R45, R47, R55	1	RESISTOR 330A, 1/4W, 5% 1300295
5	R13, R50, R52	1	RESISTOR 180A, 1/4W, 5% 1300250
6	C100 THRU C105	1	CAPACITOR .001, 35V, 20% 1000067
20	C1 THRU C99	1	CAPACITOR .001, 50V, 20% DISC 1001610
1	ETCHED CIRCUIT BOARD	1	500 9801
1	MODULE ECO HISTORY	1	8-MH-NS107-0-43
1	ASSY/DRILLING HOLE LAYOUT	1	8-MH-NS107-0-5
1	X-Y COORDINATE HOLE LOCATION	1	KCO-NS107-0-4

IC TYPE	QTY	REF. DESIGNATION
DEC 74S174	8	16
DEC 74S153	8	16
DEC 7485	8	16
DEC 74S157	8	16
DEC 74S153	8	16
DEC 74S158	8	16
DEC 74182-1	8	16
DEC 74157	8	16
DEC 3101A	8	16
IC TYPE	QTY	REF. DESIGNATION
IC TYPE	GND	+5V
ITEM NO.	AWG	FROM PT
IC PIN LOCATIONS	JUMPER LIST	

AA2, AV1, BA2, BV1, CA2, CV1, DA2, DV1, EA2, EV1, FA2, FV1
AC2, AN2, AH1, AT1, BC2, BN2, BH1, BT1, CC2, CN2, CH1, CT1, DC2, DN2, DH1, DT1, EC2, EN2, EH1, ET1, FC2, FN2, FH1, FT1

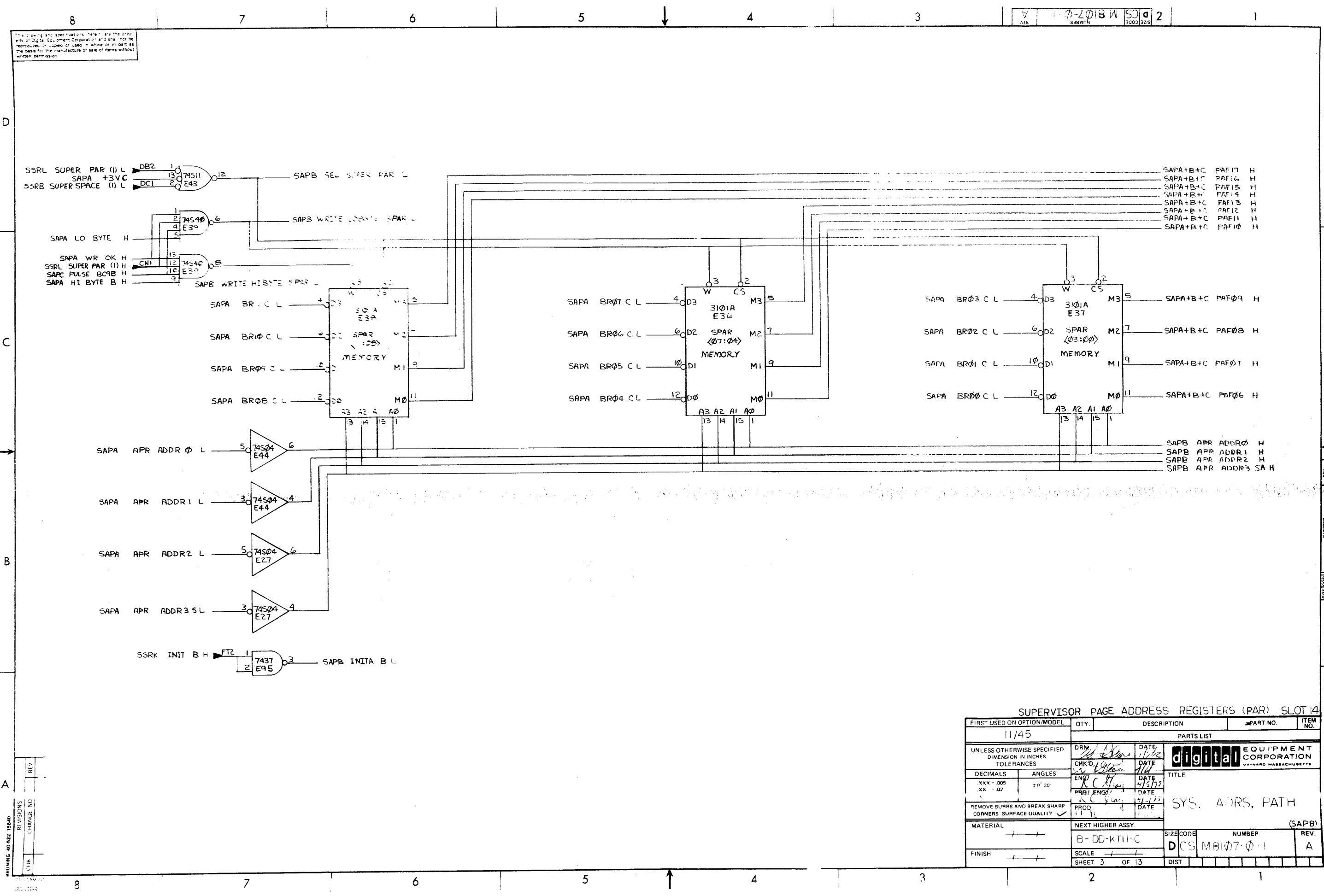


ETCH BOARD REV	B	DATE	11/15/50
PROJ. NO.	1001610	REV.	1
DESIGNER	W. J. B.	DATE	11/15/50
CHECKED	W. J. B.	DATE	11/15/50
APPROVED	W. J. B.	DATE	11/15/50
REVISION	1	DATE	11/15/50
DESCRIPTION	ADDRESS PATH		
OUTLINE	8-MH-NS107-0-1	REV.	A



KERNEL PAGE ADDRESS REGISTERS (PAR)	SLOT 14
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FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>DR</i>	DATE <i>10/13/77</i>	 DIGITAL EQUIPMENT CORPORATION NATHAN MA, MASSACHUSETTS	
DECIMALS ANGLES		CHK'D <i>EL</i>	DATE <i>11/1/78</i>		
XXX = .005	±0° 30'	ENG. <i>RC</i>	DATE <i>4/15/78</i>		
XX = .02		PROJ. ENG. <i>RC</i>	DATE <i>4/15/78</i>		
X = .1		PROD. <i>RC</i>	DATE <i>4/15/78</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ☒				TITLE	
MATERIAL		NEXT HIGHER ASSY.		SYS. ADRS. PATH	
FINISH		B-LD-KTII-C		SIZE CODE	NUMBER
		SCALE <i>1/1</i>		DICS	M8107-0-I
		SHEET 2 OF 13		DIS.	REV. A



SUPERVISOR PAGE ADDRESS REGISTERS (PAR) SLOT 14			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE	DATE
DECIMALS	ANGLES	DATE	DATE
XXX - .005	± 0° 30'	DATE	DATE
XX - .02		DATE	DATE
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	DATE
MATERIAL		DATE	DATE
FINISH		DATE	DATE
NEXT HIGHER ASSY.		DATE	DATE
B-DD-KTII-C		DATE	DATE
SCALE		DATE	DATE
SHEET 3 OF 13		DATE	DATE
DIST.		DATE	DATE
TITLE		DATE	DATE
SYS. ADPRS. PATH		DATE	DATE
SIZE CODE		DATE	DATE
D C S M8107-0-1		DATE	DATE
NUMBER		DATE	DATE
REV.		DATE	DATE
A		DATE	DATE

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D

C

B

A

BRUNING 40-522 15840
REVISIONS
CHANGE NO.
CHK

DEF. FORM NO.
DRD 102-B

SSRL USER PAR (1) L CU2
SAPA +3 VC
SSRB USER SPACE(1) L CV2

SAPA LOBYTE B H
SAPA WR OK H
SSRL USER PAR (1) H
SAPC PULSE BC9B H
SAPA HIBYTE B H

SAPA APR ADDR0 L
SAPA APR ADDR1 L
SAPA APR ADDR2 L
SAPA APR ADDR3 U L

SAPC SEL USER PAR L

SAPC WRITE LOBYTE UPAR L

SAPC WRITE HIBYTE UPAR L

SAPA BR0C L
SAPA BR0C L
SAPA BR0C L
SAPA BR0C L

SAPA BR07C L
SAPA BR06C L
SAPA BR05C L
SAPA BR04C L

SAPA BR03C L
SAPA BR02C L
SAPA BR01C L
SAPA BR00C L

SAPA+B+C PAF17 H
SAPA+B+C PAF16 H
SAPA+B+C PAF15 H
SAPA+B+C PAF14 H
SAPA+B+C PAF13 H
SAPA+B+C PAF12 H
SAPA+B+C PAF11 H
SAPA+B+C PAF10 H

SAPC APR ADDR0 H
SAPC APR ADDR1 H
SAPC APR ADDR2 H
SAPC APR ADDR3 UA H

TIGD T4 L
SAPB INITA B L
TIGD T5 L
SAPC FLIP H
SAPC FLOP H
TMCE PAUSES B H
SAPD +3VB

SAPA+B+C PAF09 H
SAPA+B+C PAF08 H
SAPA+B+C PAF07 H
SAPA+B+C PAF06 H

USER PAGE ADDRESS REGISTERS (PAR)				SLOT 14	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES					
DECIMALS	ANGLES	TITLE			
XXX = .005	±0° 30'	SYS. ADRS. PATH			
.XX = .02					
.X = .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL					
NEXT HIGHER ASSY.					
B-DD-KT11-C					
SCALE					
SHEET 4 OF 13					
FINISH					
DIST.					

DRN	DATE	CHK'D	DATE	ENG	DATE	PROD. ENG	DATE	PROD.	DATE
	3/1/72		4/13/72	RC	4/13/72	RC	4/13/72		4/13/72

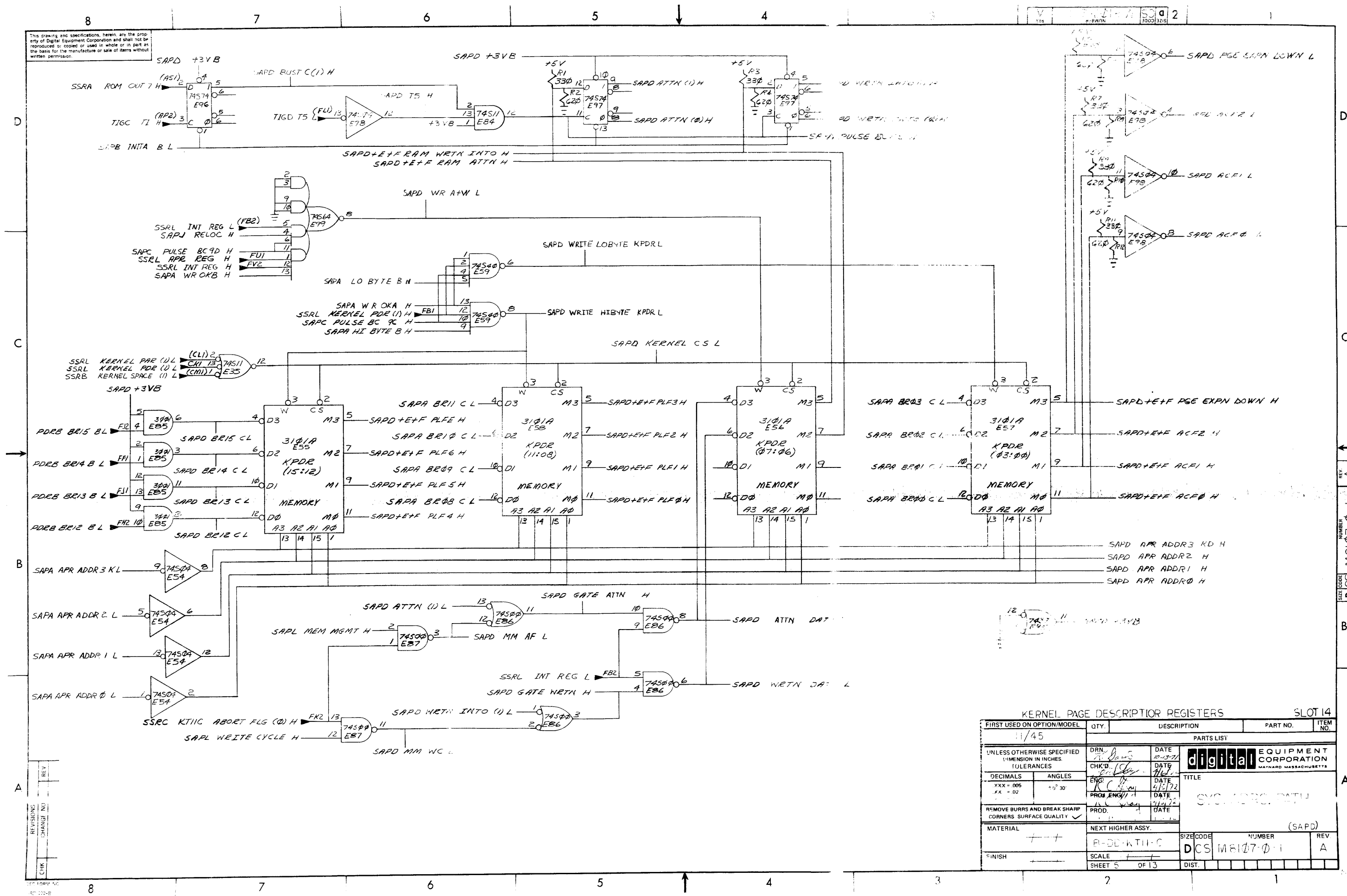
digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
SIZE CODE	NUMBER	REV
DCS	118107-0	A

D

C

B

A



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D

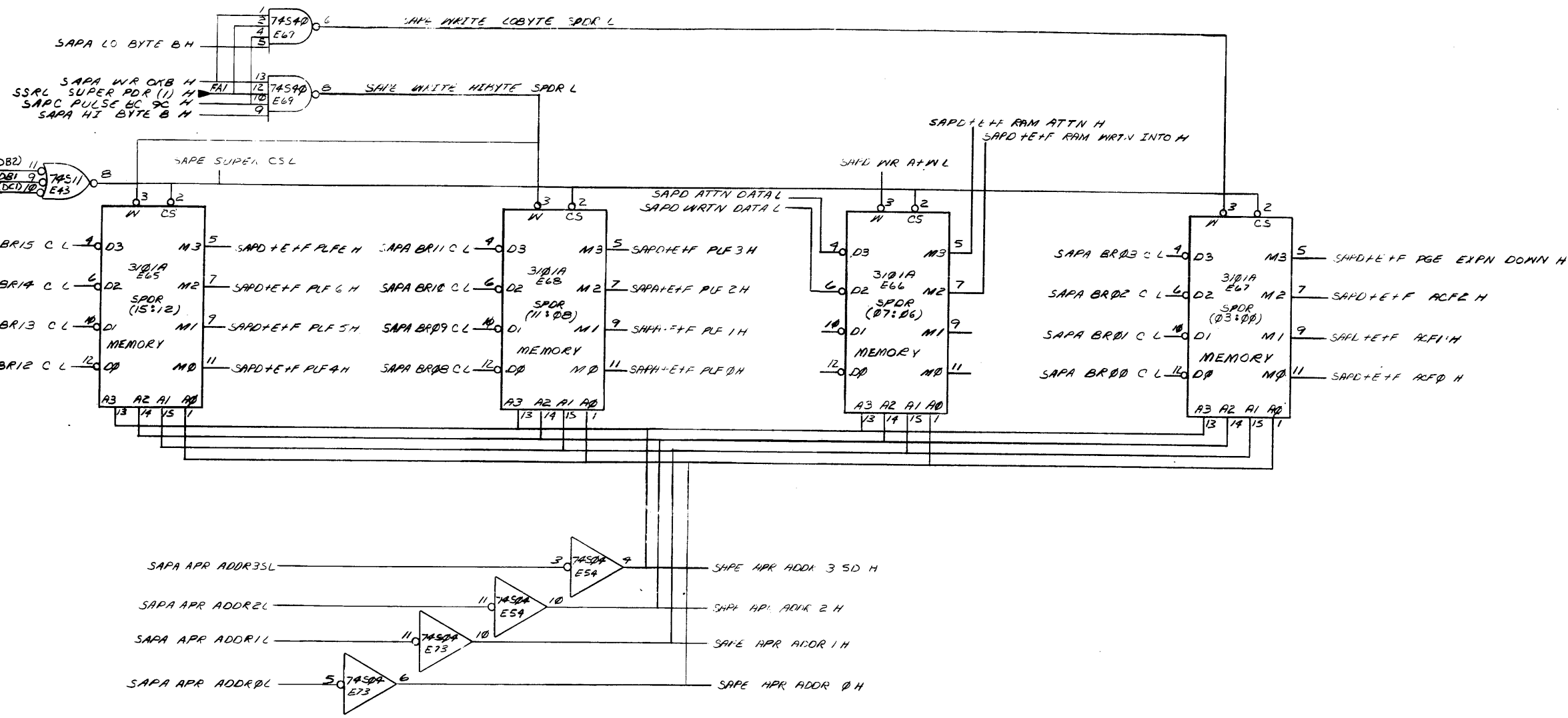
C

B

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REV	CHG	NO
1	1	1

DEC FORM NO
DRD 102-B



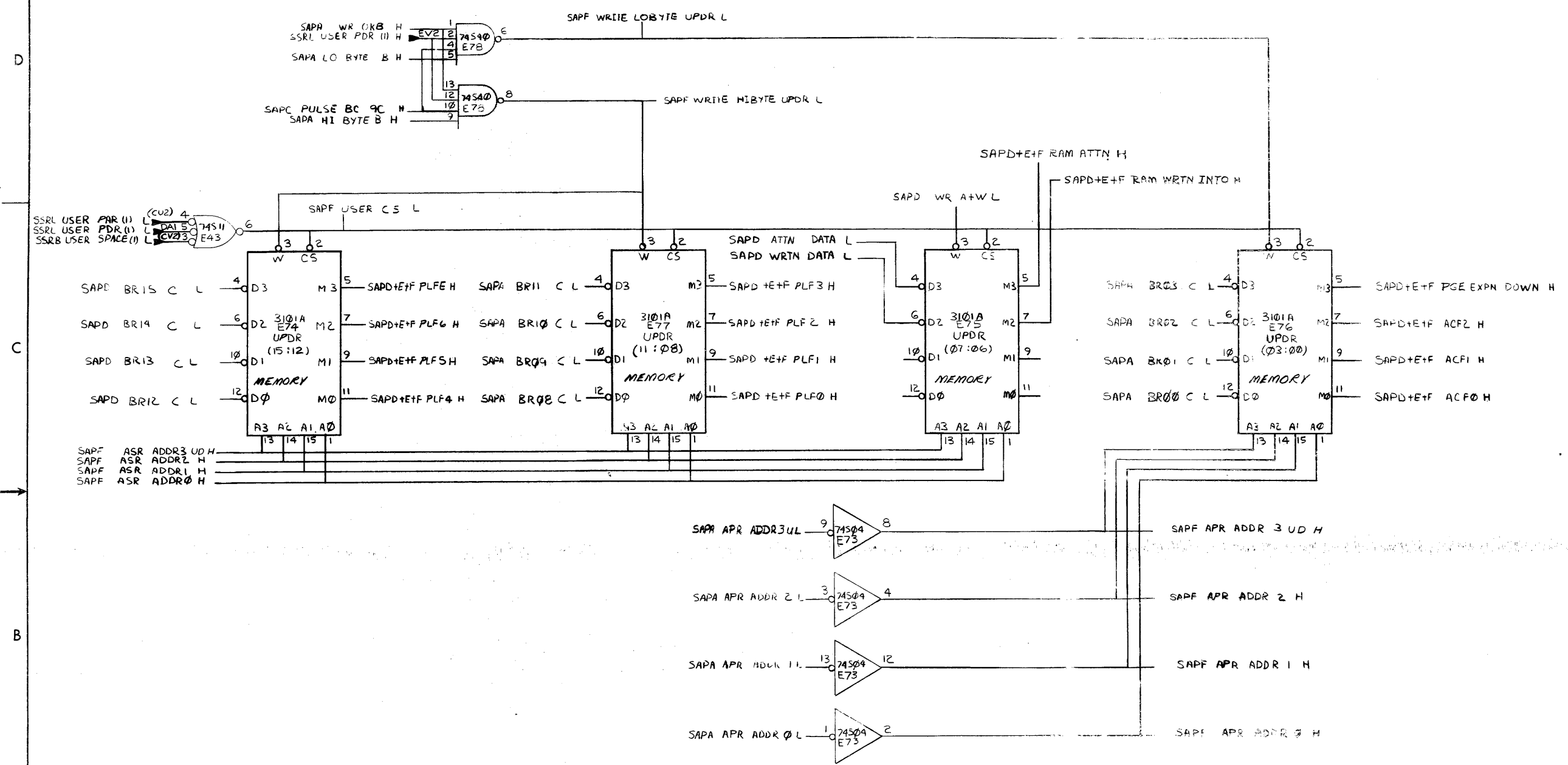
SUPERVISOR PAGE DESCRIPTOR REGISTERS				SLOT14	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
11/45					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	ENG	DATE	TITLE	
.XXX ± .005	± 0° 30'	RC	4/26/72	SYS. ADRS PATH	
.XX ± .02		PROV	4/25/72		
.X ± .1		PROD	4/26/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.		(SAPE)	
FINISH		B-DD-KT11-C		NUMBER	
		SCALE		REV.	
		SHEET 6 OF 13		A	
		DIST.			

REV. A
NUMBER MB107-0-1
SIZE CODE DCS

B

A

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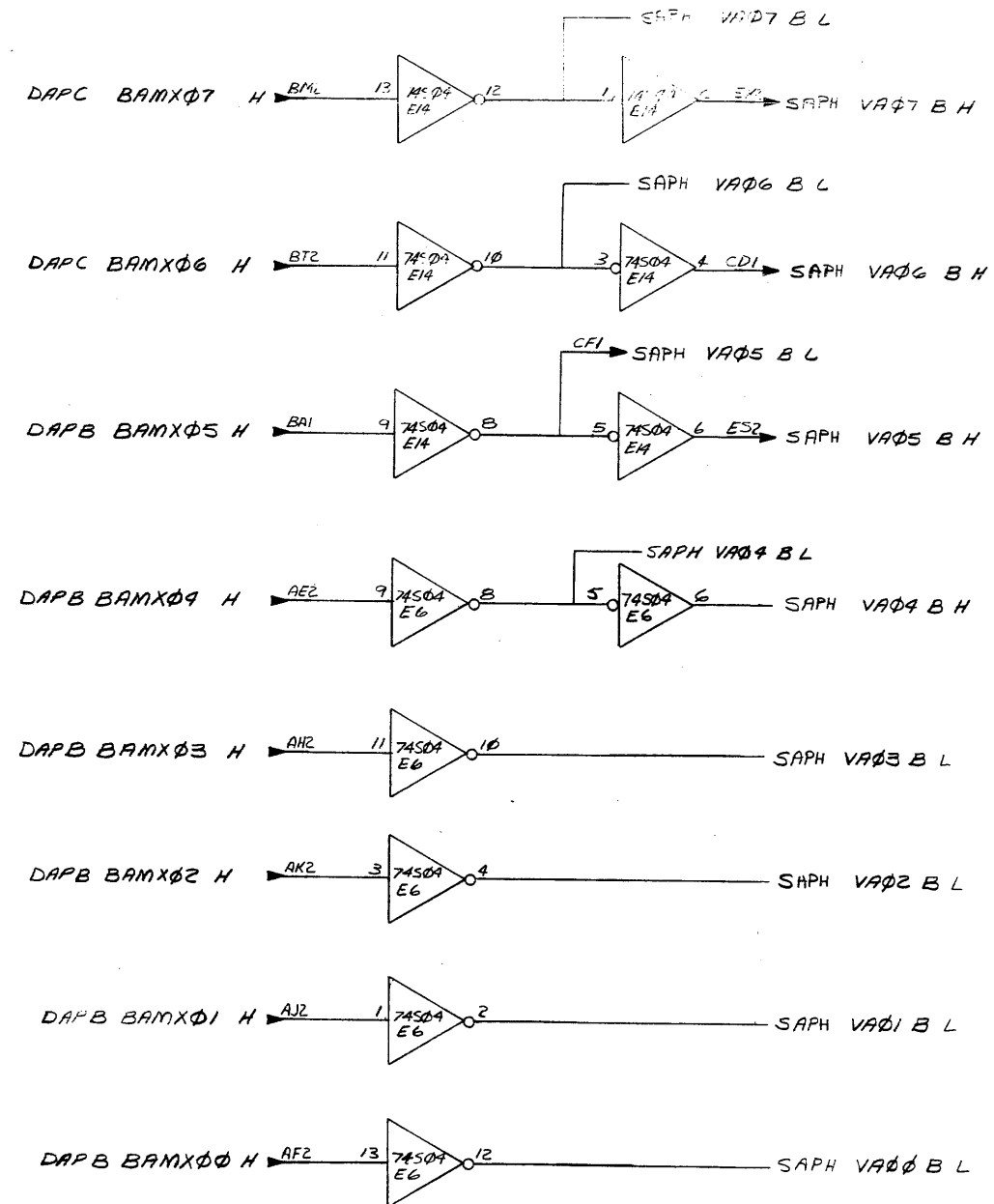
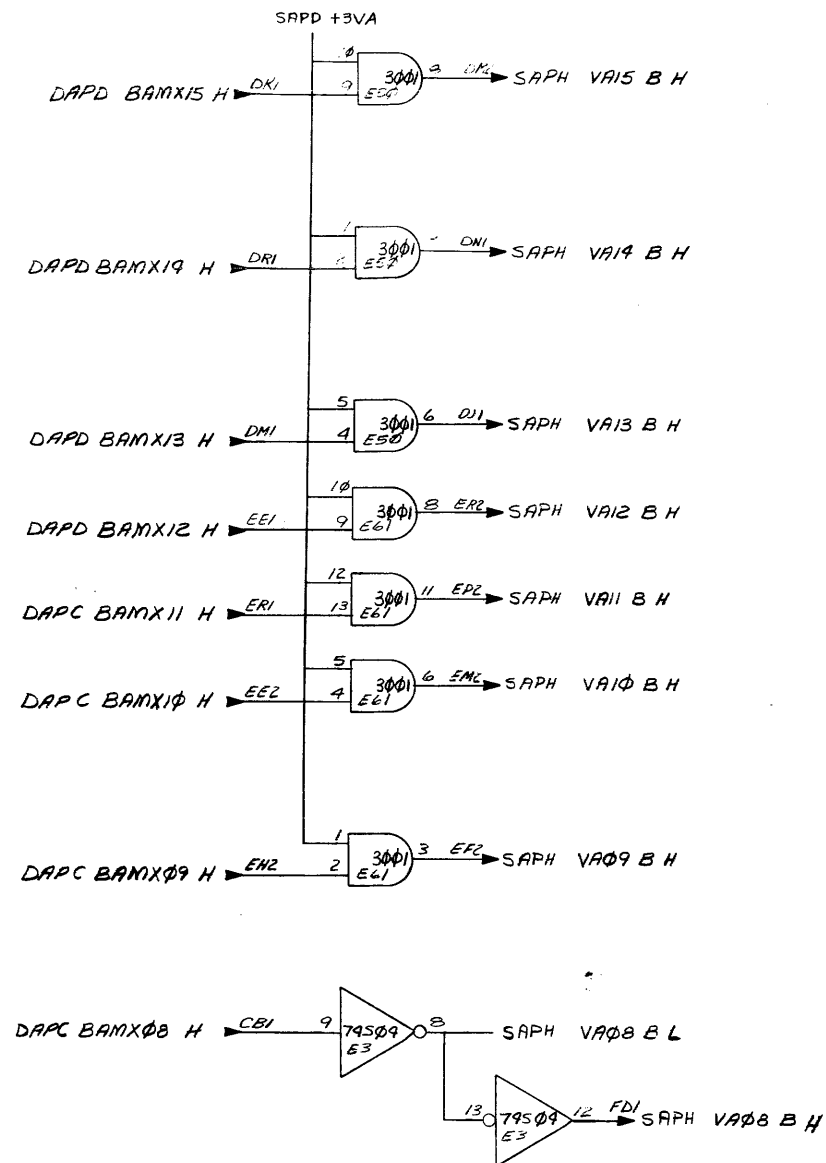


USER PAGE DESCRIPTOR REGISTERS SLOT 14

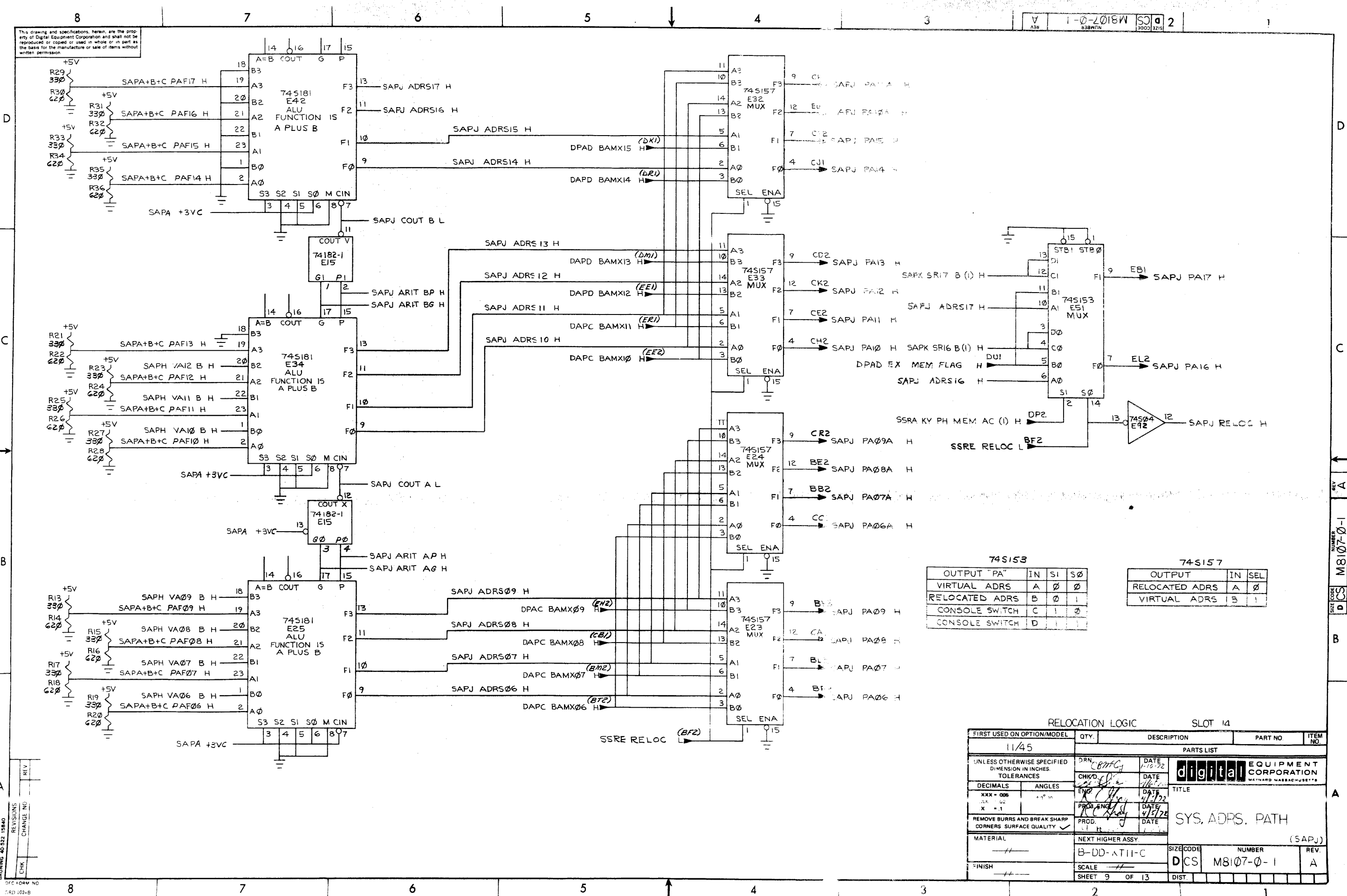
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.	ITEM NO.
11/45			PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
		CHKD	DATE			
		ENG	DATE			
		PROD.	DATE			
DECIMALS		ANGLES	TITLE			
.XXX - .005	±0° 30'					
.XX - .02						
.X - .01						
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD.	DATE	S13. APRS. PATH		
			DATE			
			DATE			
			DATE			
MATERIAL		NEXT HIGHER ASSY.		(SAPF)		
+ + +		B-DD-KTII-C		SIZE CODE	NUMBER	REV
				DCS	M8107-0-1	A
FINISH		SCALE				
+ + +		+ + +				
		SHEET 7 OF 13		DIST.		

REV	CHANGE	DATE
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FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
.XXX = .005	±0° 30'	CHK'D	DATE	TITLE	
.XX = .02		ENG	DATE	SYS. ADRS. PATH	
.X = .1		PROJ. ENG	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE		
MATERIAL		NEXT HIGHER ASSY.		(SAPH)	
FINISH		R-DE-FATH-C		SIZE CODE	NUMBER
		SCALE		DCS	M8107-0-1
		SHEET 8 OF 13		DIST.	REV. A



74153			
OUTPUT "PA"	IN	SI	S0
VIRTUAL ADRS	A	0	0
RELOCATED ADRS	B	0	1
CONSOLE SWITCH	C	1	0
CONSOLE SWITCH	D	1	1

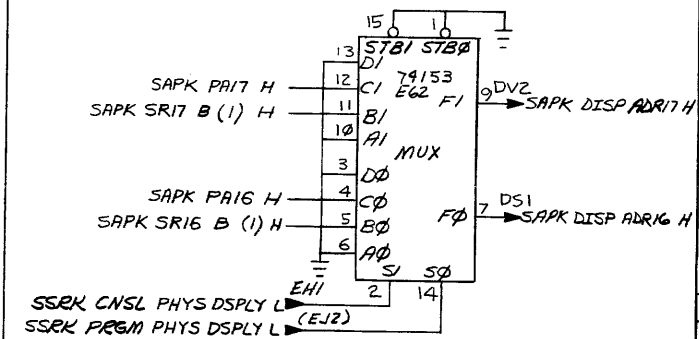
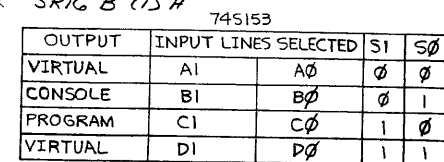
74157			
OUTPUT	IN	SEL	
RELOCATED ADRS	A	0	
VIRTUAL ADRS	B	1	

RELOCATION LOGIC		SLOT 14	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES			
DECIMALS	ANGLES	DATE	DATE
XXX - .006	± .1°	1/10/72	4/13/72
XX - .02		DATE	DATE
X - .1		4/13/72	4/13/72
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE
MATERIAL		DATE	DATE
FINISH		DATE	DATE
NEXT HIGHER ASSY.		DATE	DATE
B-DD-AT11-C		DATE	DATE
SCALE		DATE	DATE
SHEET 9 OF 13		DATE	DATE

PARTS LIST		TITLE	
DRN	DATE	DRN	DATE
CHKD	DATE	CHKD	DATE
ENG	DATE	ENG	DATE
PROD	DATE	PROD	DATE
digital EQUIPMENT CORPORATION		SYS. ADPS. PATH	
MAYNARD MASSACHUSETTS		(SAPJ)	
SIZE CODE	NUMBER	REV.	
DCS	M8107-0-1	A	
DIST.			

BRUNING 40 522 15840
REV. 102-B

REV	NO	DATE	BY	CHK
1	1	1/10/72	CBM/CJ	
2	2	4/13/72	CBM/CJ	



74157		
OUTPUT	IN	SEL
RELOCATED ADRS	A	0
VIRTUAL ADRS	B	1

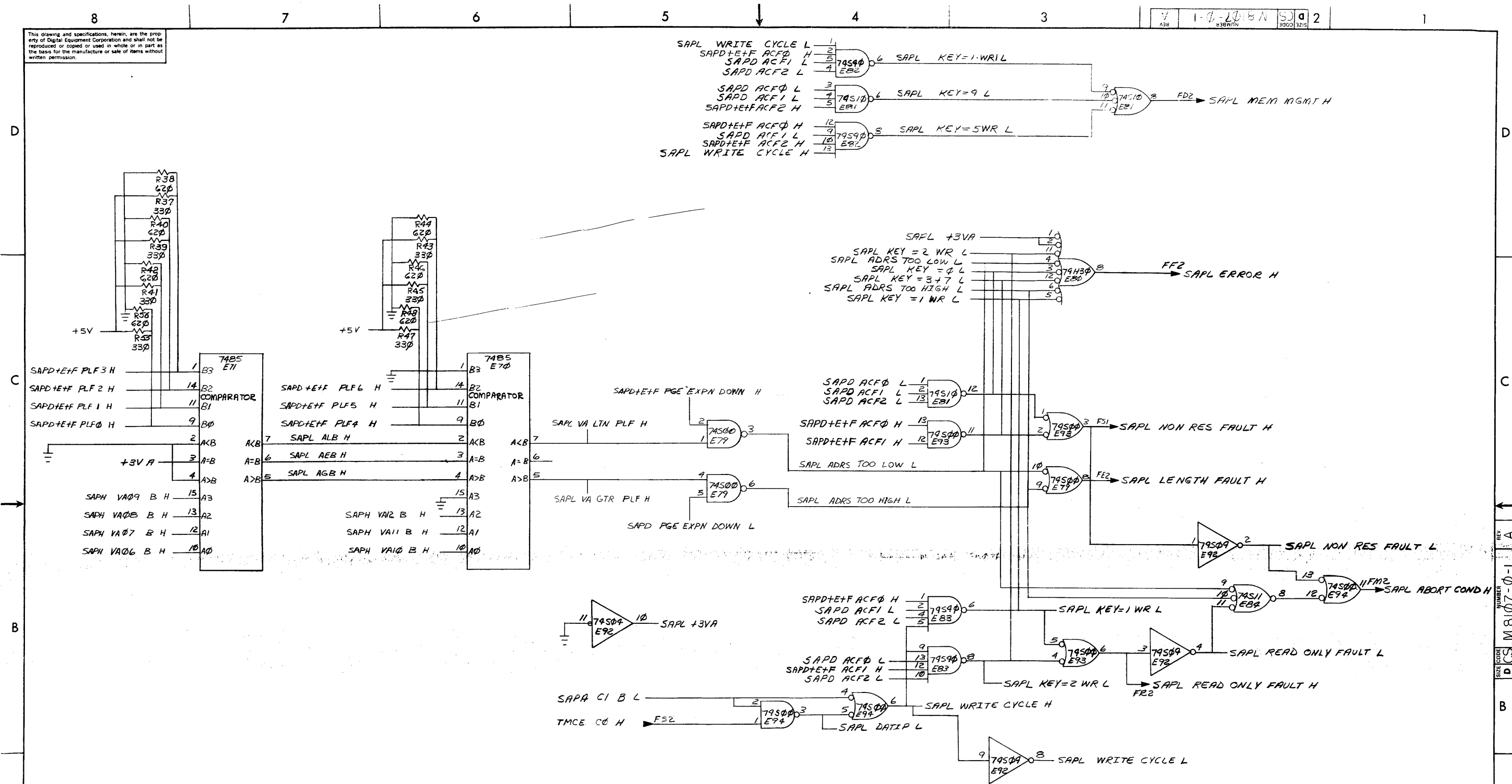


ADDRESS SELECT SWITCH POSITION	UBCJ DIS ADRS SEL2	UBCJ DIS ADRS SEL1	UBCJ DIS ADRS SEL0
PROGRAM PHYSICAL	0	0	0
KERNEL D VIRTUAL	0	0	1
KERNEL I VIRTUAL	0	1	0
CONSOLE PHYSICAL	0	1	1
SUPERVISOR D VIRTUAL	1	0	0
SUPERVISOR I VIRTUAL	1	0	1
USER D VIRTUAL	1	1	0
USER I VIRTUAL	1	1	1

CONSOLE ADDRESS DISPLAY SLOT 14

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>Wichor</i>	DATE <i>7-12-71</i>	digital EQUIPMENT CORPORATION NATYARD MASSACHUSETTS	
DECIMALS ANGLES		CHK'D <i>Dr</i>	DATE <i>7-12-71</i>		
XXX ± .005	± 0° 30'	ENGR <i>KC Gray</i>	DATE <i>7-12-72</i>	TITLE SYS. ADRS. PATH	
.XX ± .02		PROJ. ENGR <i>KC Gray</i>	DATE <i>7-15-72</i>		
.X ± .1		PROD. <i>Q</i>	DATE <i>7-1-72</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		(SAPK)			
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
—/—		B-DU-KTI-C	D	C8 M8107-0-1	A
FINISH		SCALE —/—			
—/—		SHEET 10 OF 13	DIST.		

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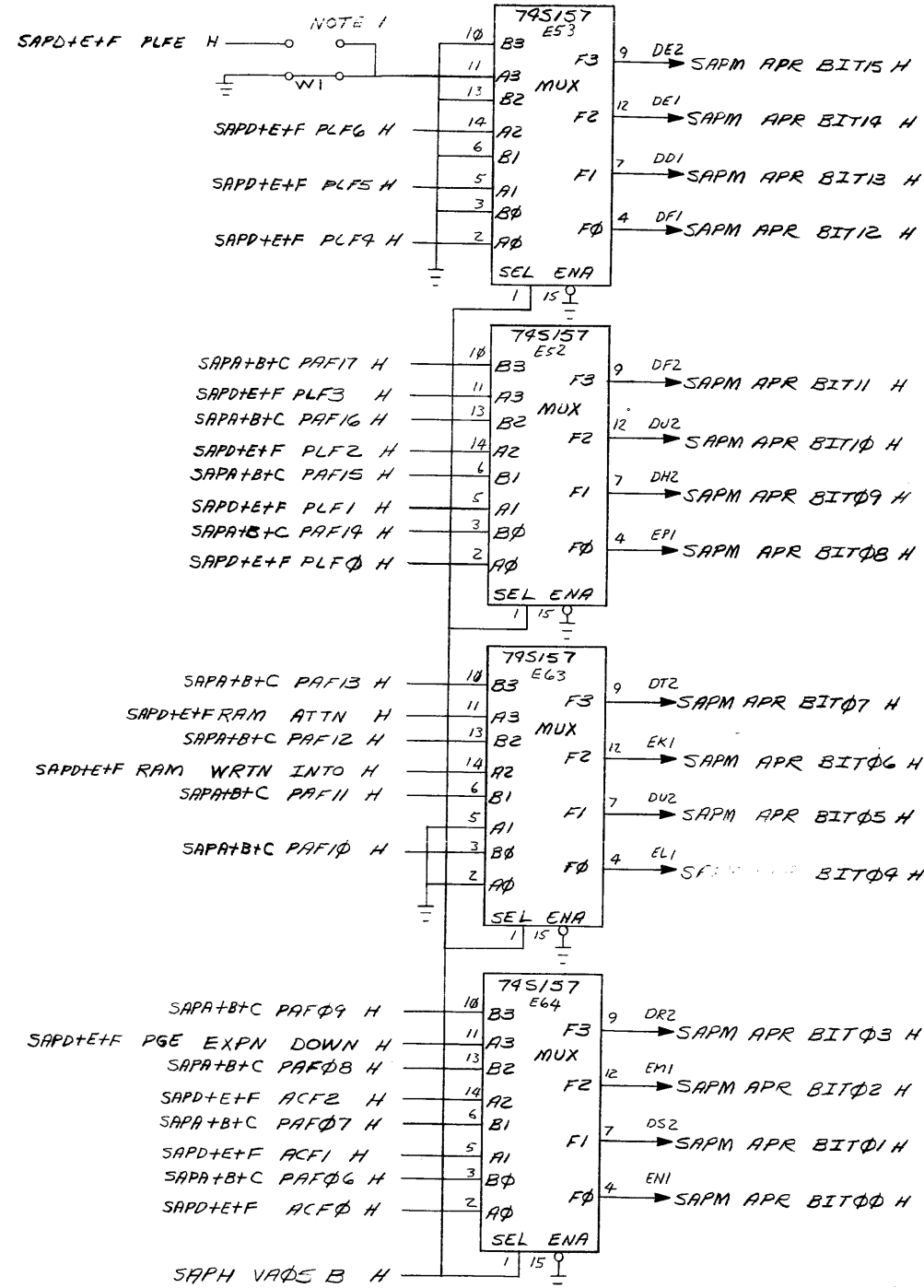
REV	NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

DEF 100M N°
JRI 102-B

ABORT AND TRAP DECODE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>WLD</i>	DATE 8-12-71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DECIMALS ANGLES		CHK'D. <i>WLD</i>	DATE 9-14-71	
.XXX = .005 XX = .001 X = .1		ENG. <i>WLD</i>	DATE 4-13-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. <i>WLD</i>	DATE 4-13-72	
MATERIAL		PROD. <i>WLD</i>	DATE	SYS. ADRS. PATH (SAPL)
NEXT HIGHER ASSY.				
FINISH				
SCALE				
SHEET 11 OF 13				
DIST.				

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79157

OUTPUT	INPUT LINES SELECTED				SEL
PDR'S	A3	A2	A1	A0	0
PAR'S	B3	B2	B1	B0	1

NOTES:

1. PROVISIONS FOR WIRE JUMPER. JUMPER IS NORMALLY INSERTED TO CONNECT "A3" TO GROUND.

PAR/PDR READ MULTIPLEXORS

SLOT 14

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	DATE	TITLE	
.XXX ± .005	± 0° 30'	DATE	SYS. ADRS. PATH	
.XX ± .02		DATE		
.X ± .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE		
MATERIAL		DATE		
NEXT HIGHER ASSY.		DATE		
B-DD-KT11-C		DATE		
SCALE		DATE		
SHEET 12 OF 13		DATE		
FINISH		DATE		
SIZE CODE		NUMBER	REV.	
DCS		M8107-0-1	A	

REVISIONS
CHANGE NO.
REV.

DEC 1970 NO
1970 1972-B

8

7

6

5

4

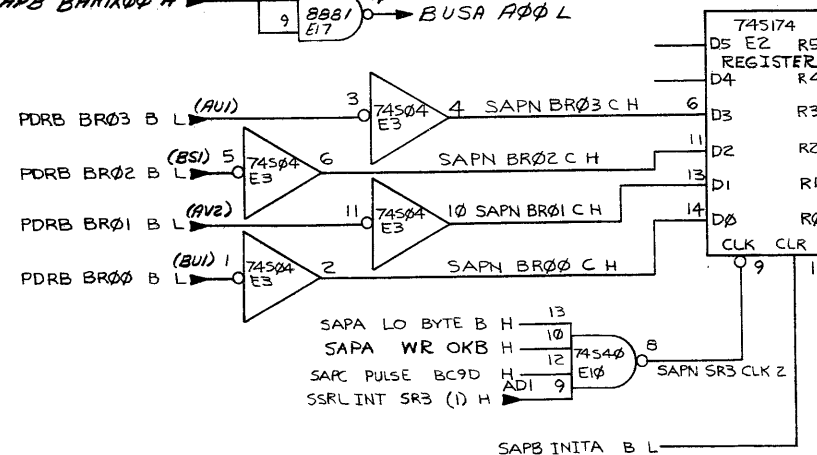
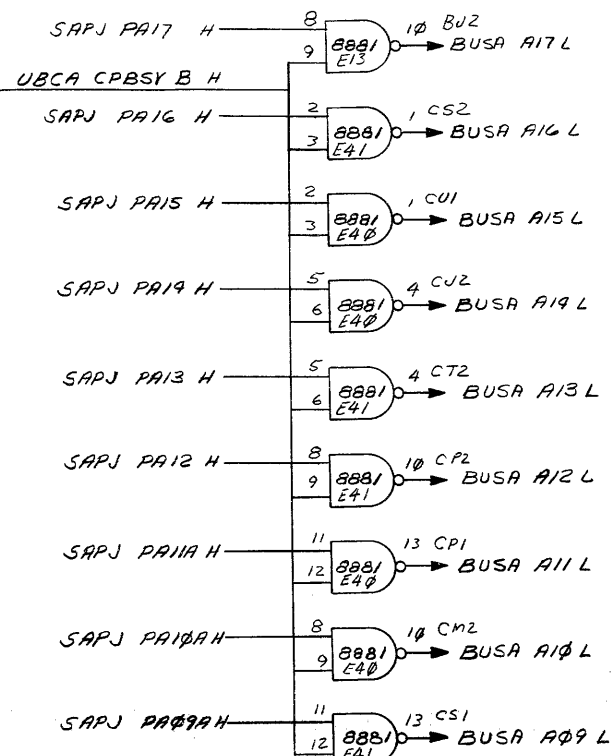
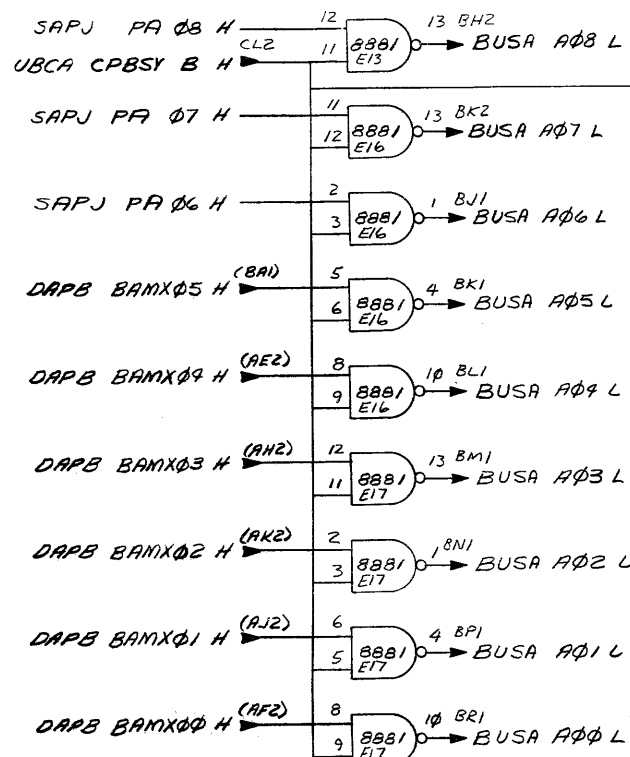
3

2

1

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NOTE 1
PORD PS15 (1) L → FKI
PORD PS14 (1) L → FPI
SSRB SR0 MODE 1 H → API
SSRB SR0 MODE 0 H → FRI
SSRB ENABLE T3 DLY H → FHI
SSRA PS RESTORE (1) H → BD2
SSRA INH PWE L → DHI
SSRD MEM. MGMT. TRAP L → FNI
SSRL KTIC FAST (1) L → ESI

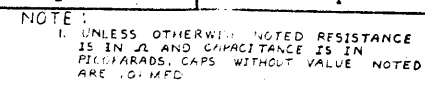


NOTE 2 W2

NOTES:
1. SIGNALS REQUIRED BY SJB (M810) MODULE. THESE SIGNALS DO NOT LOGICALLY CONNECT TO ANYTHING IN THIS MODULE.
2. WIRE JUMPER NORMALLY TIES THIS SPARE BIT TO GROUND.

UNIBUS ADDRESS DRIVERS+SR3 SLOT 14

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. <i>Went</i>	DATE <i>6-15-71</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D. <i>Went</i>	DATE <i>7/6/71</i>		
ANGLES	ENG'D. <i>Went</i>	DATE <i>4/3/72</i>		
XXX - .005 XX - .02 X - .1	PROD. ENG'D. <i>Went</i>	DATE <i>1-1-72</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>Went</i>	DATE <i>1-1-72</i>	TITLE SYS. ADRES. PATH (SAPN)	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	B-DU-KT11-C		DCS	M8107-0-1
SCALE	13 OF 13		SHEET	1



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ROM ENCODING (1-4)			
FUNCTION	M0	M1	M2
NO OPERATION	0	0	0
RESTORE PROCESSOR STATUS	1	0	0
AUTO INCREMENT	0	1	0
AUTO DECREMENT	1	1	0
BRK.30	0	0	1
INHIBIT PADWRITE ENABLE	1	0	1
CLR ADRES 16,17	0	1	1
DESTINATION MODE	X	X	X
NOT DESTINATION MODE	X	X	X

ROM ENCODING (5-8)			
FUNCTION	M0	M1	M2
EXEC DATA	X	1	X
BSOPI	1	X	X
BUST	X	X	1
I IF M PI SPACE	X	X	X

ROM ENCODING (9-12)			
FUNCTION	M0	M1	M2
I SPACE	1	X	X
I IF PREV=I	X	X	1
I IF CNSL=I	X	X	X

ROM ENCODING (13-16)			
FUNCTION	M0	M1	M2
I IF SRCF7	1	X	X
I IF DSTF7 + MTP + MFP	X	1	X
I IF DSTF7	X	X	1
I IF DSTF7 + DSTM 2	X	X	X

RACD RAR07 H AD1
RACD RAR06 H AE2
RACD RAR05 H AD2
RACD RAR04 H AC1
RACD RAR03 H AF2
RACD RAR02 H AF1
RACD RAR01 H AH2
RACD RAR00 H AE1

NOTE 1:
SEE SHEET SSRM FOR A "TRUTH
TABLE" OF THE 74187 READ
ONLY MEMORY (ROM).

NOTE 1

(74187)

A7 E7 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E8 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E9 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E10 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E11 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E12 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E13 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E14 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E15 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E16 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E17 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E18 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E19 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E20 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E21 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E22 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E23 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E24 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E25 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E26 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E27 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E28 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E29 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E30 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E31 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E32 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E33 M3

1 AG ROM

2 A5 M2

3 A4 M2

4 A3 M1

7 A2 M1

6 A1 M0

5 A0 M0

ENBI ENB0

13 14

15 A7 E34 M3

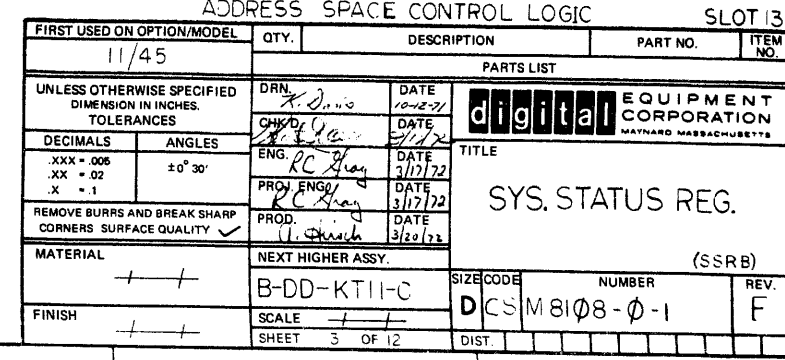
1 AG ROM

2 A5 M2

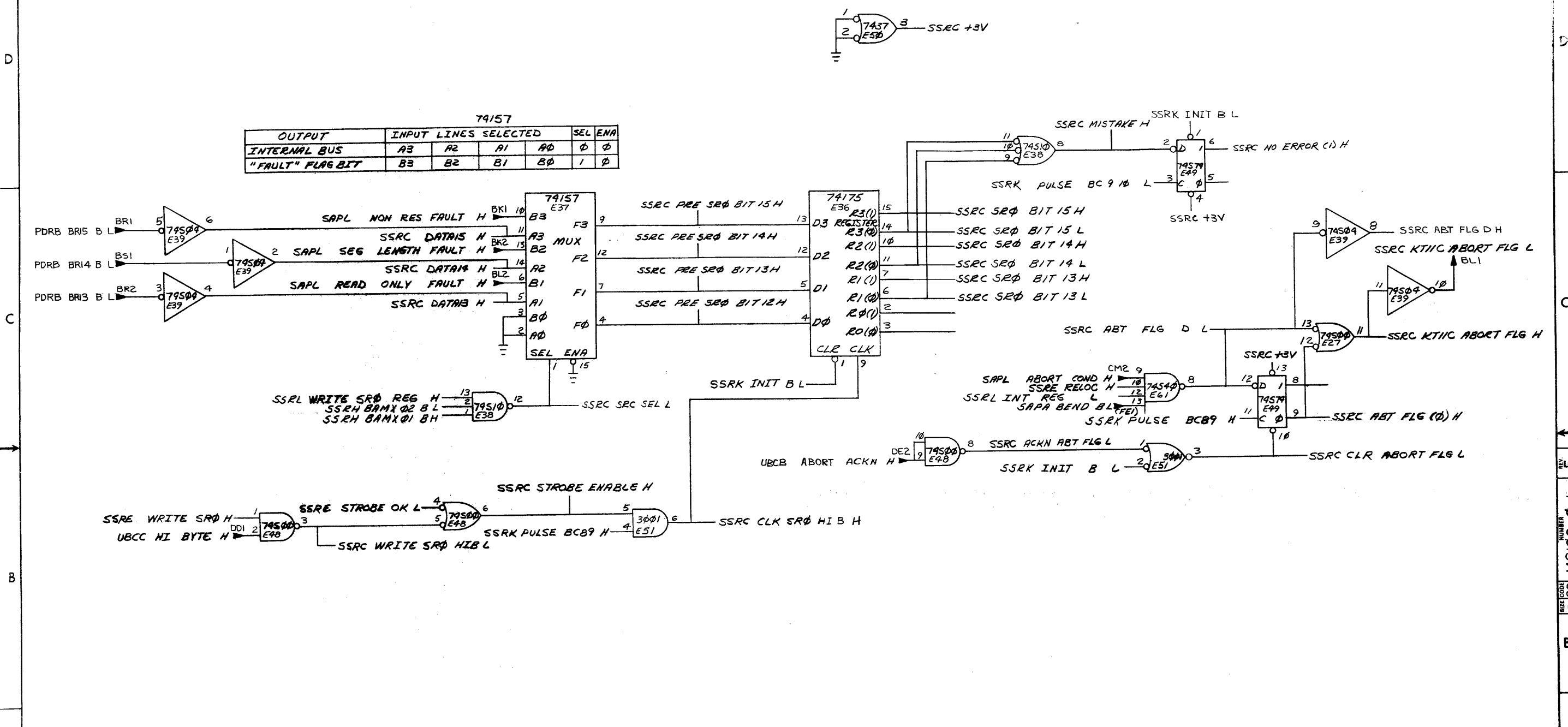
3 A4 M2

4 A3 M1

7 A2 M1



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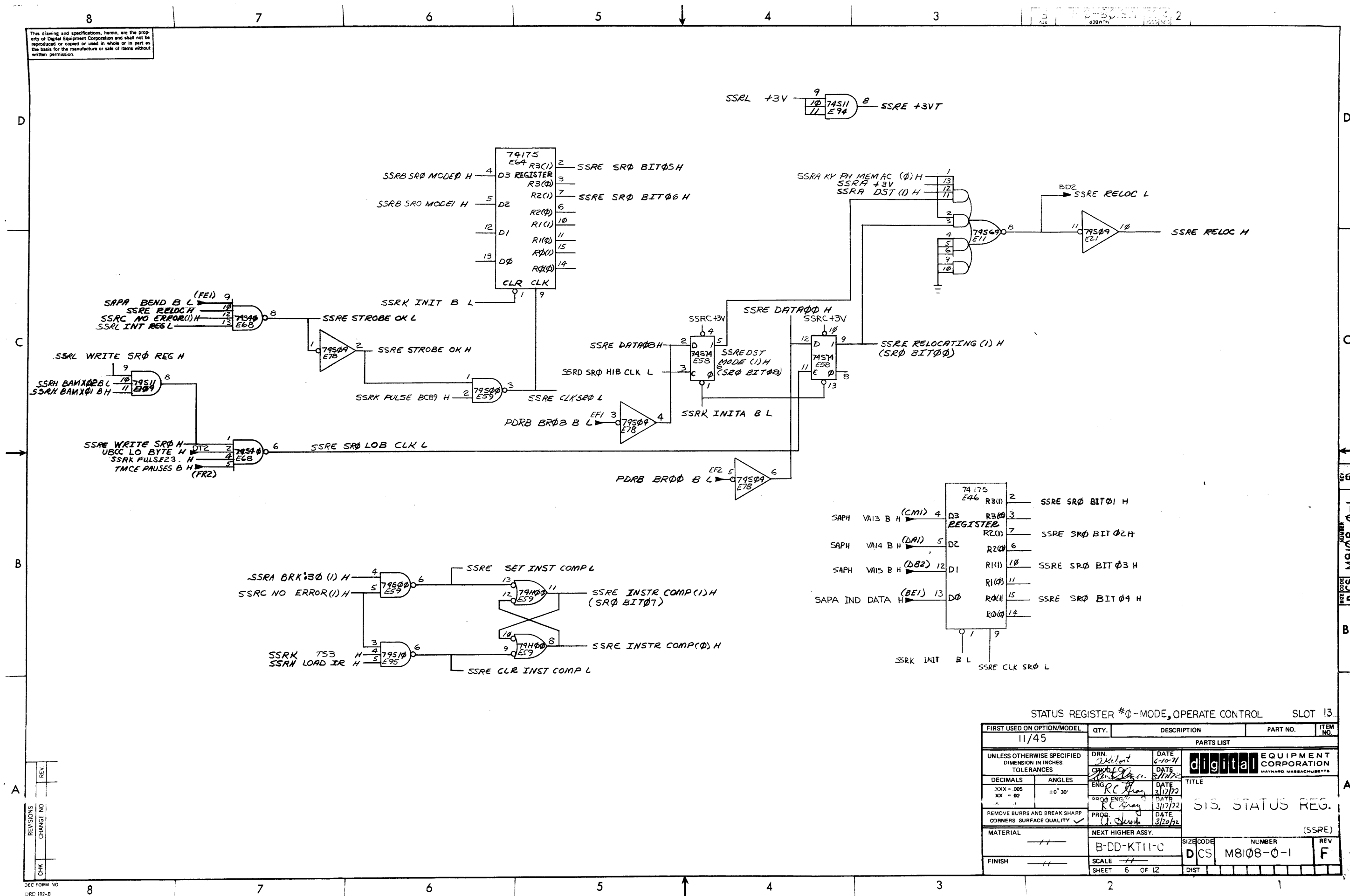
REV	CHG	NO
1	1	1

STATUS REGISTER #0-ABORT FLAGS		SLOT 13	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES			
DECIMALS	ANGLES	TITLE	
.XXX = .006	±0° 30'	SYS. STATUS REG.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
NEXT HIGHER ASSY.			
MATERIAL			
FINISH			
B-DD-KT11-C		SIZE CODE	NUMBER
SCALE		D CS	M8108-0-1
SHEET 4 OF 12		DIST.	REV E

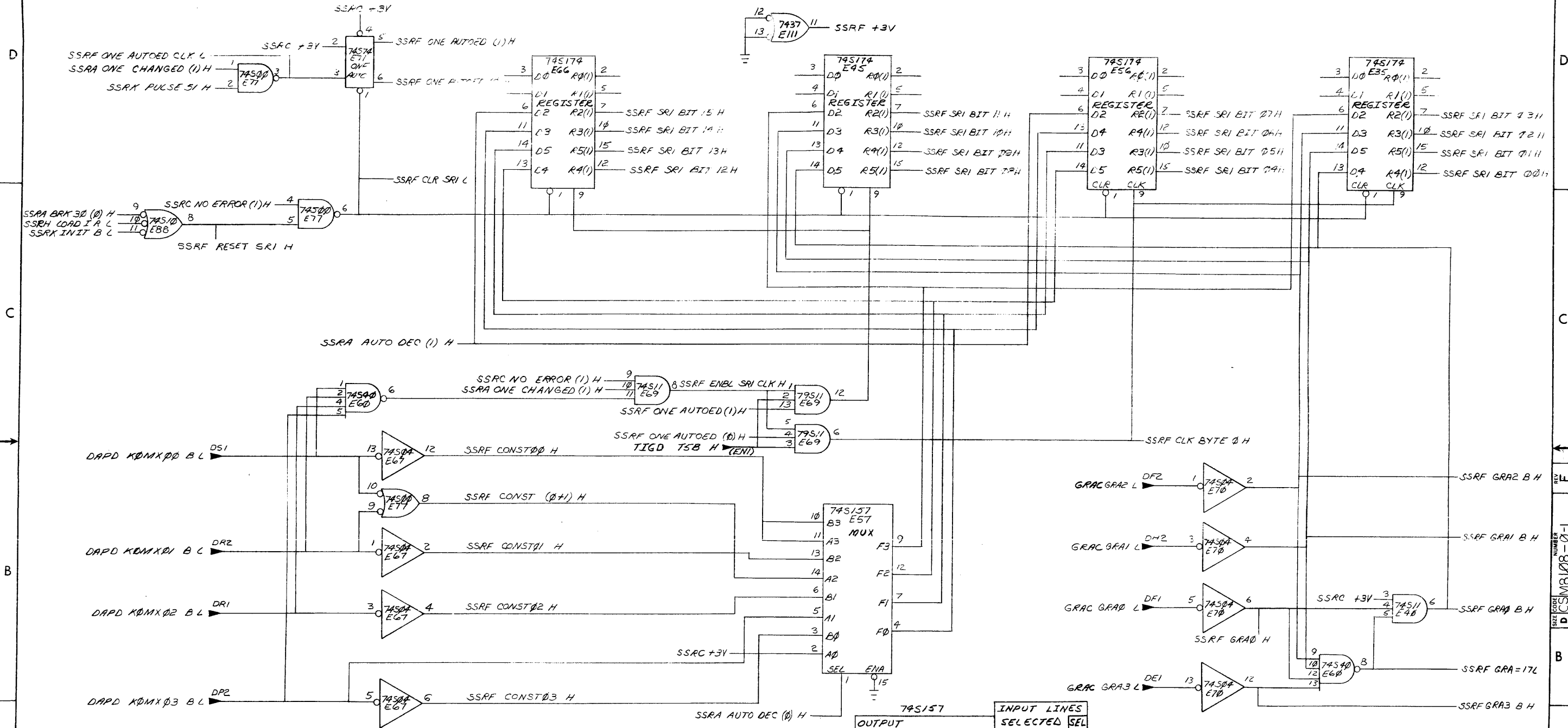
REVISIONS		
CHK	CHANGE NO.	REV.



STATUS REGISTER #0 - MODE, OPERATE CONTROL						SLOT 13
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.	ITEM NO.
11/45			PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRAWN	DATE		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
		CHECKED	DATE			
		ENG.	DATE			
		PROD. ENG.	DATE			
DECIMALS	ANGLES			TITLE		
.XXX = .005 .XX = .02 X = .1	$\pm 0^{\circ} 30'$	RC Ray		SYS STATUS REG.		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD.	DATE		(SSRE)	
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER	REV
		B-DD-KTH-C		D CS	M8108-0-1	F
FINISH		SCALE				
		SHEET 6 OF 12				



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74S157		INPUT LINES	
OUTPUT		SELECTED	SEL
NEGATIVE CONSTANT	A3 A2 A1 A0 0		
POSITIVE CONSTANT	B3 B2 B1 B0 1		

STATUS REGISTER #1-AUTO INC/DEC INFO. SLOT 13

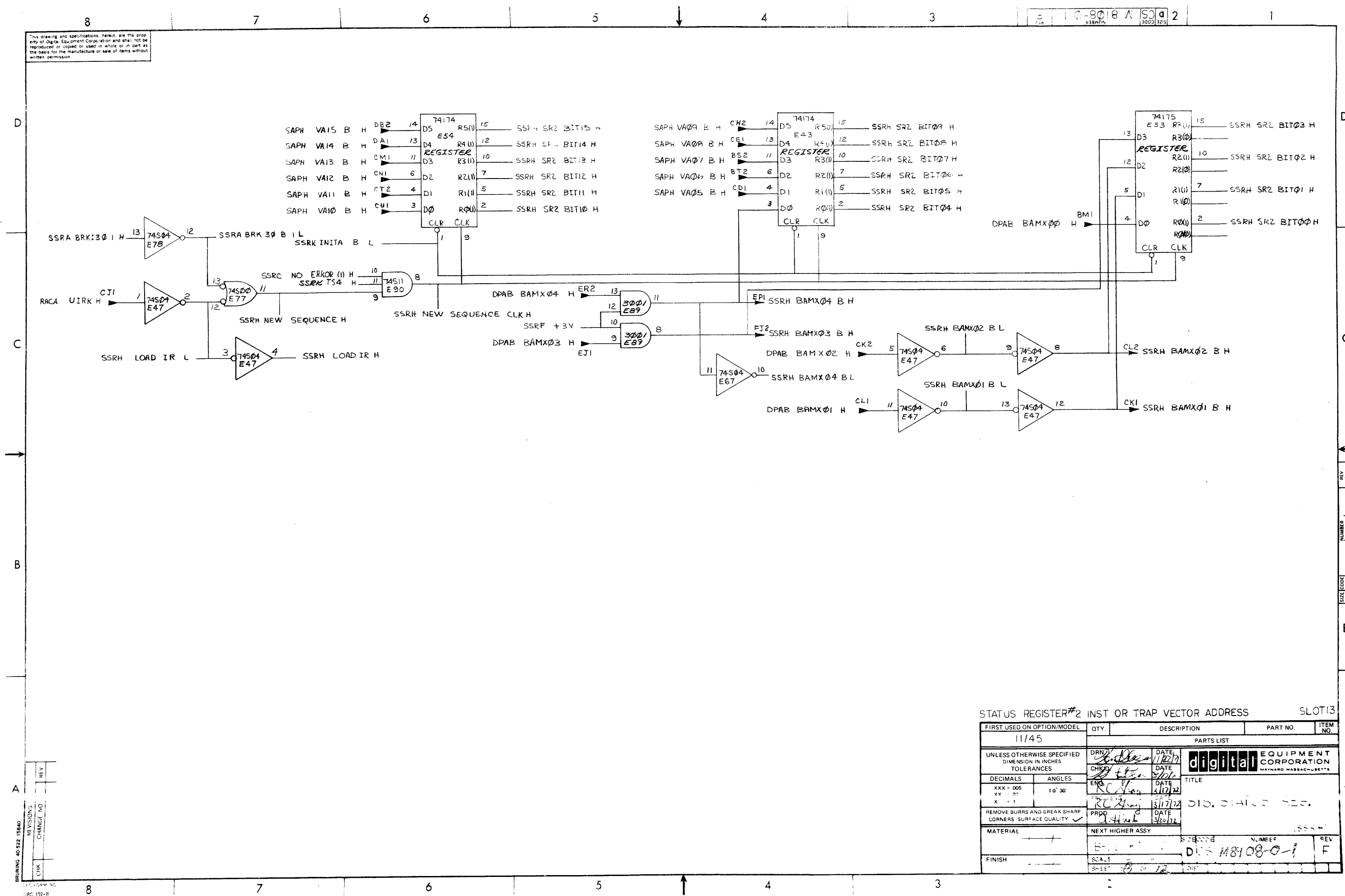
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX = .005	±0° 30'	SYS. STATUS REG.		
XX = .02				
X = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
B-DD-KTII-C				
SCALE				
SHEET 7 OF 12				

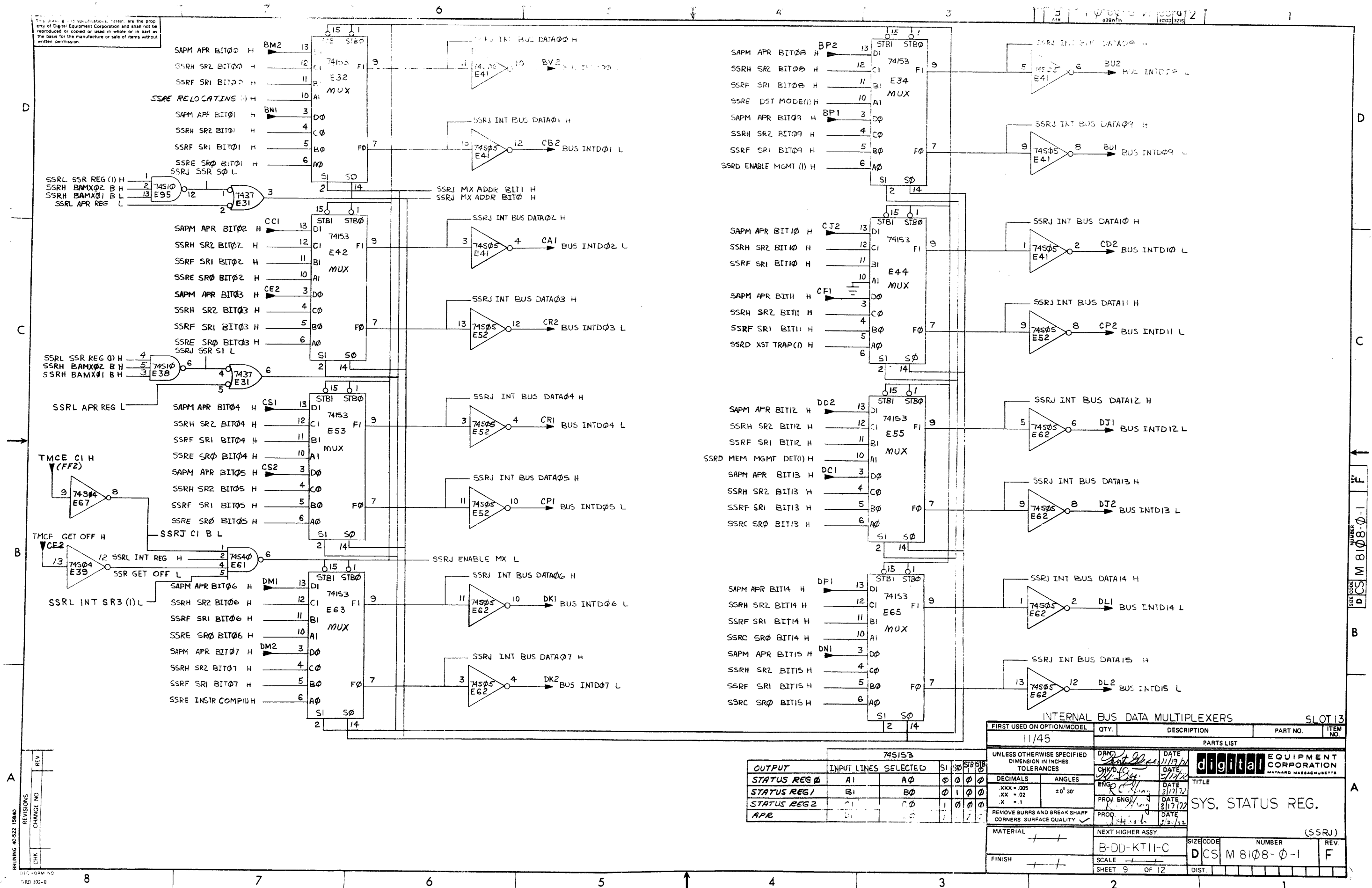
DATE	11/29/72	DATE	11/29/72
DRN.	M. Poirier	DATE	11/29/72
CHKD.	C. L. L...	DATE	11/29/72
ENG.	R. C. ...	DATE	11/29/72
PROJ. ENG.	K. C. ...	DATE	11/29/72
PRD.	A. ...	DATE	11/29/72

SIZE CODE	NUMBER	REV.
D	0018108-C-1	F

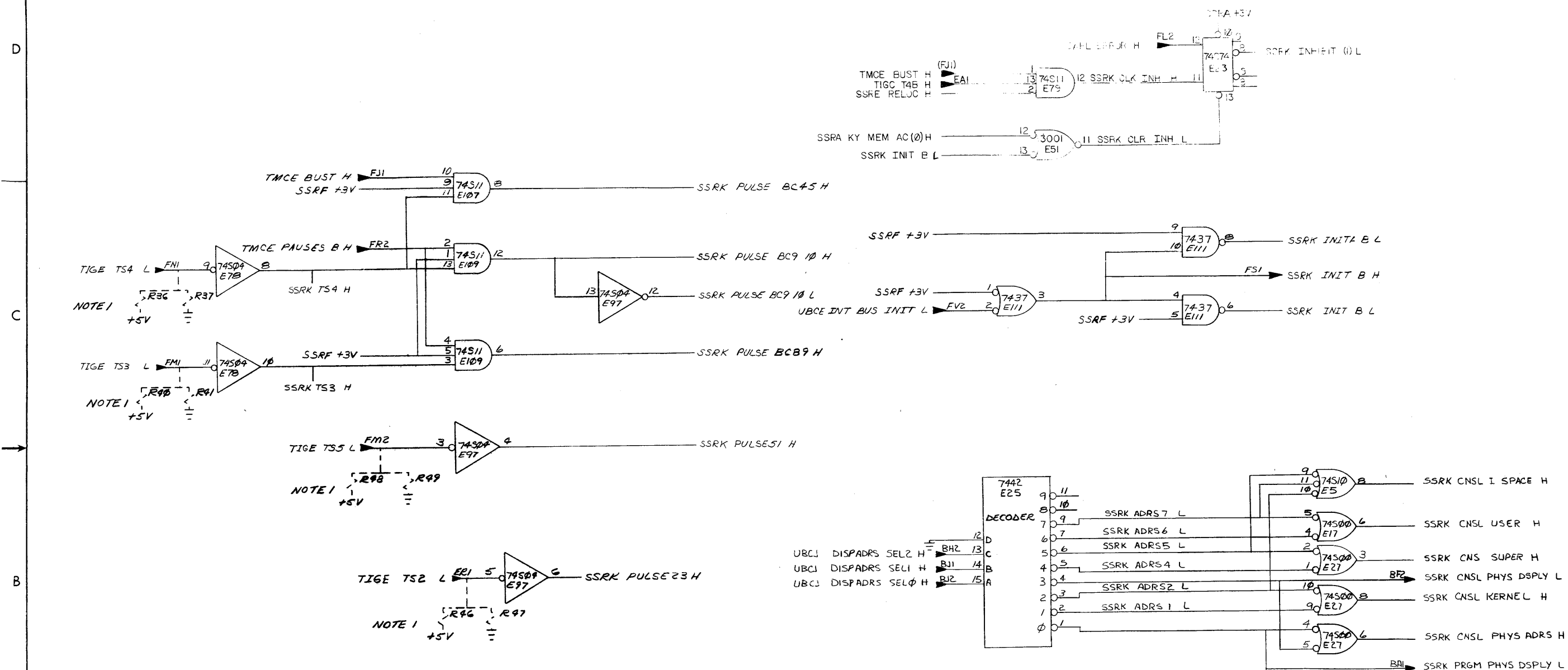
REV	CHANGE NO	CHK

BRUNING 40522 15940
DEC FORM NO
100-102-B





NOTES:
1. TERMINATION RESISTORS NOT USED.



ADDRESS SELECT SWITCH POSITION	UBCJ DIS ADRS SEL 2	UBCJ DIS ADRS SEL 1	UBCJ DIS ADRS SEL 0
PROGRAM PHYSICAL	0	0	0
KERNEL D VIRTUAL	0	0	1
KERNEL I VIRTUAL	0	1	0
CONSOLE PHYSICAL	0	1	1
SUPERVISOR D VIRTUAL	1	0	0
SUPERVISOR I VIRTUAL	1	0	1
USER D VIRTUAL	1	1	0
USER I VIRTUAL	1	1	1

CONS. ADRS. SEL. SWITCH, TIMING LOGIC, INIT		SLOT 13	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN CHK'D	DATE DATE/	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
DECIMALS	ANGLES	TITLE	
XXX - .005 XX - .02 X - .1	± 0° 30'	SYS. 11/17/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROG.	DATE	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER
FINISH	SCALE	REV.	

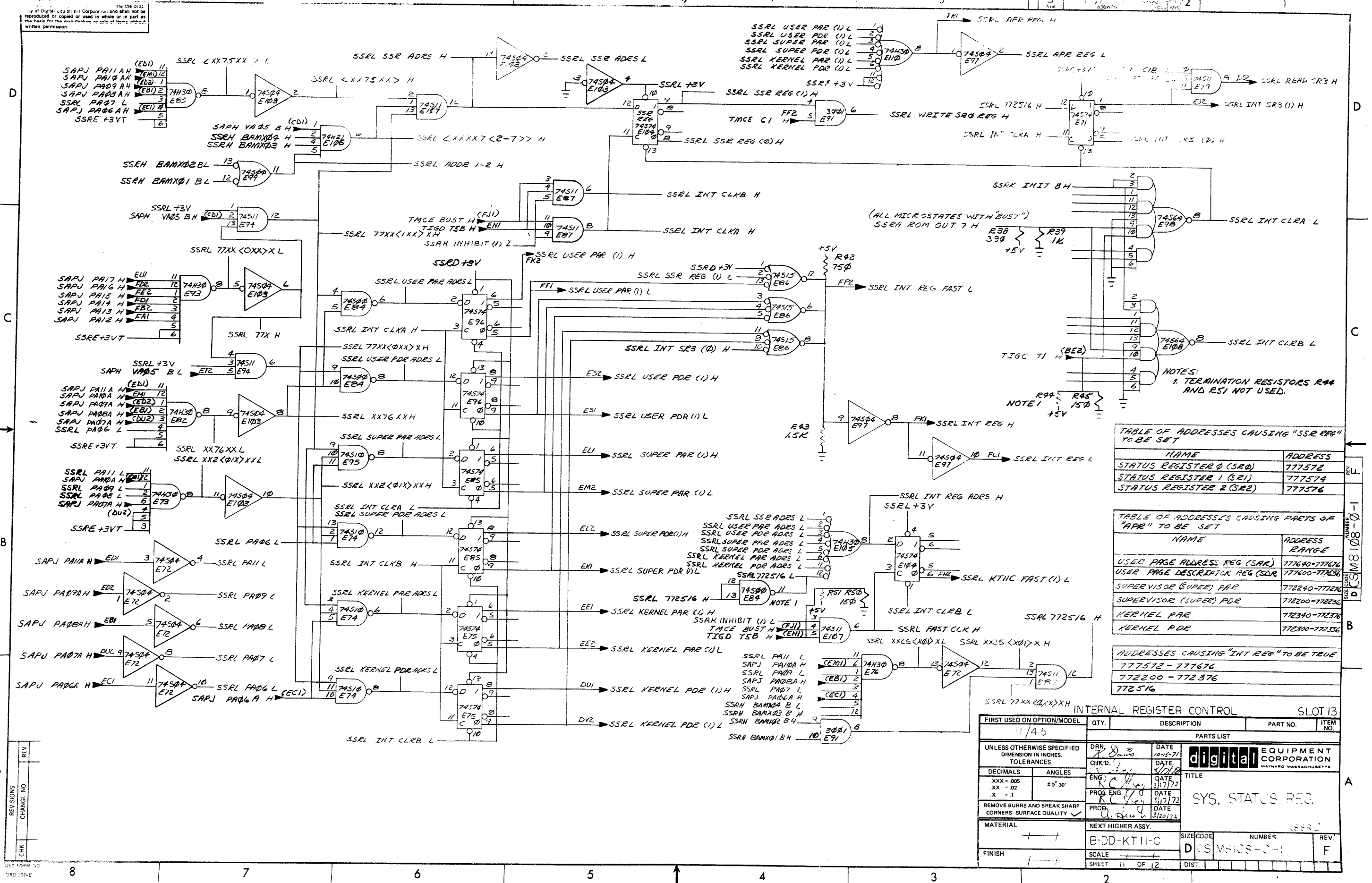


TABLE OF ADDRESSES CAUSING "SR2 REG" TO BE SET	
NAME	ADDRESS
STATUS REGISTER 0 (SR0)	777572
STATUS REGISTER 1 (SR1)	777574
STATUS REGISTER 2 (SR2)	777576

TABLE OF ADDRESSES CAUSING PARTS OF "APR" TO BE SET	
NAME	ADDRESS RANGE
USER PAGE ADDRESS REG (SAR)	777640-777676
USER PAGE DESCRIPTOR REG (SDR)	777600-777636
SUPERVISOR (SUPER) PAR	772240-772276
SUPERVISOR (SUPER) PDR	772200-772236
KERNEL PAR	772340-772376
KERNEL PDR	772300-772336

ADDRESSES CAUSING "INT REG" TO BE TRUE
777572 - 777676
772200 - 772376
772516

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
4/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>1.0</i>	DATE <i>10-15-71</i>	digital EQUIPMENT CORPORATION MATNARD MASSACHUSETTS	
DECIMALS ANGLES		CHK'D.	DATE <i>3/17/72</i>		
.XXX = .005		ENG. <i>RC</i>	DATE <i>3/17/72</i>		
.XX = .02		PROB. <i>RC</i>	DATE <i>3/17/72</i>		
.X = .1		PROB. <i>D. Sullivan</i>	DATE <i>3/20/72</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ☒				TITLE SYS. STATUS REC.	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER	REV.
	B-DD-KTII-C		D	MSICS-2-1	F
FINISH	SCALE				
	SHEET 11 OF 12				
		DIST.			

