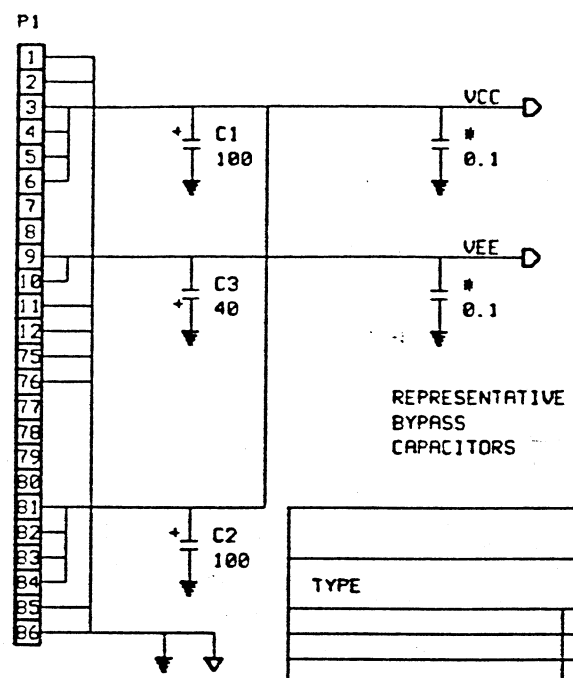


E 7 6 5 4 3 2 1

I.C. LEGEND				
TYPE	CNT	GND	VCC	REFERENCE DESIGNATORS
7407	1	7	14	U29
74HC132	1	7	14	U102
74LS148	1	8	16	U9
74LS153	1	8	16	U116
74LS175	1	8	16	U80
74LS273	2	10	20	U113 U114
74LS365	1	8	16	U175
74LS366	2	8	16	U111 U112
74LS366	1	8	16	U123
74LS393	4	7	14	U1 U14 U144 U145
74LS652	12	12	24	U56-U59 U61-U68
74S244	1	10	20	U3
74F00	2	7	14	U50 U52
74F02	4	7	14	U34 U54 U76 U79
74F04	3	7	14	U28 U109 U124
74F10	2	7	14	U13 U99
74F20	2	7	14	U75 U115
74F32	1	7	14	U98
74F64	2	7	14	U73 U74
74F74	6	7	14	U25 U53 U55 U60 U77 U125
74F138	5	8	16	U70 U96 U100 U103 U104
74F174	1	8	16	U119
74F175	2	8	16	U61 U101
74F240	3	10	20	U146 U147 U148
74F245	4	10	20	U161 U162 U163 U164
74F374	4	10	20	U170 U171 U172 U173
74ALS244A	2	10	20	U110 U122
74ALS534	2	10	20	U30 U31
74ALS540	9	10	20	U5 U6 U7 U149 U165 U166 U167 U168 U169
74ALS541	10	10	20	U24 U51 U105 U106 U107 U108 U134 U135 U155 U156
74ALS640A	3	10	20	U10 U11 U12
74ALS645A	4	10	20	U120 U121 U130 U139
74AS30	1	7	14	U80
74AS652	4	12	24	U140-U143
PAL16L0A	2	10	20	U4 U27
PAL16L0A-2	6	10	20	U8 U85 U86 U89 U90 U117
PAL16L6-15	14	10	20	U35-U41 U71 U72 U83 U97 U136 U137 U174
PAL16R6-15	1	10	20	U82
PAL16R4	1	10	20	U76
PAL16R6-15	1	10	20	U26
PAL16C1	2	10	20	U32 U84
26LS29	3	5	1	U129 U133 U154
26LS32	5	8	16	U120 U150 U151 U152 U153
29824	1	12	24	U33
60020-16	1	*	*	U127
6E681	2	20	40	U130 U131
145E10A	1	12	24	U69
27256-20	4	14	28	U91 U92 U93 U94
27529	1	10	20	U110
2148	4	9	18	U157 U156 U159 U160
MCM2016H-70	1	12	24	U95
1400-35	17	10	20	U15-U23 U42-U49
K1114 32MHZ	1	7	14	U126
K1114 67MHZ	1	7	14	U2



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	REVISE PER ECO # 776	2/26/82	[Signature]
	C	REV ECO # 1154	5/26/87	[Signature]

REFERENCE
FILE

DISCRETE LEGEND			
TYPE	DESCRIPTION	CNT	REFERENCE DESIGNATORS
	33 OHM RESISTOR	2	R1 R18
	100 OHM RESISTOR	1	R4
	470 OHM RESISTOR	2	R12 R14
	680 OHM RESISTOR	2	R13 R15
	1K OHM RESISTOR	4	R9 R11 R16 R17
	2.2K OHM RESISTOR	2	R8 R10
	10K OHM RESISTOR	1	R6
	100K OHM RESISTOR	1	R5
	470K OHM RESISTOR	2	R2 R7
	22M OHM RESISTOR	1	R3
MSP06A01-101G	100 OHM PULLUP 6-PIN	1	RN5
MSP06A01-271G	270 OHM PULLUP 6-PIN	1	RN15
MSP10A01-222G	2.2K OHM PULLUP 10-PIN	2	RN1 RN7
MSP06A01-472G	4.7K OHM PULLUP 6-PIN	4	RN3 RN6 RN8 RN9
MSP10A01-472G	4.7K OHM PULLUP 10-PIN	4	RN2 RN4 RN13 RN14
MSP06A01-103G	10K OHM PULLUP 6-PIN	2	RN10 RN11
MSP08A01-103G	10K OHM PULLUP 8-PIN	1	RN12
SR151A100KAA	10 PF CAPACITOR	2	C7 C19
SR151A220KAA	22 PF CAPACITOR	1	C8
SR151A221KAA	220 PF CAPACITOR	11	C6 C9-C18
SR151A471KAA	470 PF CAPACITOR	1	C21
A5E104M	0.1 UF CAPACITOR	147	*
A5E104M	0.1 UF CAPACITOR	2	C4 C5
	10 UF CAPACITOR	1	C20
	40 UF CAPACITOR	1	C3
	100 UF CAPACITOR	2	C1 C2
1N914	SIGNAL DIODE	2	CR1 CR2
1N3595	SCHOTTKY DIODE	1	CR3
1N270	SCHOTTKY DIODE	1	CR4
555-4001	LED ARRAY	1	DS1
	32.768 KHZ CRYSTAL	1	Y1
	3.686 MHZ CRYSTAL	1	Y2
	16 PIN DIP SWITCH	2	S1 S2
LTC-7P	BATTERY	1	BT1

UNLESS OTHERWISE SHOWN:
1.. RESISTANCE VALUES ARE IN OHMS
2.. CAPACITANCE VALUES ARE IN MICROFARADS

APPLICATIONS		SILICON GRAPHICS INC.	
		drw	
		chk K. Allen	4/7/86
		iss K. Allen	4/7/86
-02	FOOO-561-XX MULTI-USE		
DASH NO.	NEXT ASSEMBLY	USED ON	APPROVALS
			DATE
			IP2
			5000-556
			C
			14. NOV. 1985
			1. OF. 20

PCB SCHEMATIC, IP2

B 7 6 5 4 3 2 1

P1. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
13	BBCLK\	18
14	BINIT\	18
15	BBPRN\	18
16	BBPRO\	18
17	BBUSY\	18
18	BBREQ\	18
19	BMRDC\	18
20	BMLTC\	18
21	BIDRC\	18
22	BJOWC\	18
23	BXACK\	18
24		NC
25		NC
26		NC
27	BBHEN\	19
28	BA16\	19
29	BCBR0\	16
30	BA17\	19
31	BCCLK\	18
32	BA18\	19
33		NC
34	BA19\	19
35	BBINT6\	4
36	BBINT7\	4
37	BBINT4\	4
38	BBINT5\	4
39	BBINT2\	4
40	BBINT3\	4
41	BBINT0\	4
42	BBINT1\	4
43	BA14\	19
44	BA15\	19
45	BA12\	19
46	BA13\	19
47	BA10\	19
48	BA11\	19
49	BA8\	19
50	BA9\	19
51	BA6\	19
52	BA7\	19
53	BA4\	19
54	BA5\	19
55	BA2\	19
56	BA3\	19
57	BA0\	19
58	BA1\	19
59	BD14\	20
60	BD15\	20
61	BD12\	20
62	BD13\	20
63	BD10\	20
64	BD11\	20
65	BD8\	20
66	BD9\	20
67	BD6\	20
68	BD7\	20
69	BD4\	20
70	BD5\	20
71	BD2\	20
72	BD3\	20
73	BD0\	20
74	BD1\	20

J1. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
1	DCD0\	6
2		NC
3	TXD0\	6
4	DTR0\	6
5	RXD0\	6
6		NC
7	JHALT\	4
8		NC
9		NC
10		NC
11		NC
12		NC
13	GND	6
14	DCD2\	7
15	CTS2\	7
16	RTS2\	7
17	TXD2\	7
18	RXD2\	7
19	DTR2\	7
20	DCD3\	7
21	CTS3\	7
22	RTS3\	7
23	TXD3\	7
24	RXD3\	7
25	DTR3\	7
26		NC
27		NC
28	TXD1\	6
29		NC
30	RXD1\	6
31		NC
32		NC
33		NC
34		NC
35	DCD1\	6
36	DTR1\	6
37	JDIAG0	10
38	GND	6
39	JDIAG1	10
40	JDIAG2	10
41	JDIAG3	10
42	CONF0	10
43	CONF1	10
44	CONF2	10
45	CONF3	10
46	CONF4	10
47	CONF5	10
48	CONF6	10
49	CONF7	10
50		NC
51		NC
52	ME2\	8
53	ME1\	8
54	ME0\	8
55	MX0\	8
56	MX1\	8
57	MY0\	8
58	MY1\	8
59	GND	6
60	NO	3

J2. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
1	MD0	20
2	MD1	20
3	GND	20
4	MD2	20
5	MD3	20
6	MD4	20
7	MD5	20
8	GND	20
9	MD6	20
10	MD7	20
11	MD8	20
12	MD9	20
13	GND	20
14	MD10	20
15	MD11	20
16	MD12	20
17	MD13	20
18	GND	20
19	MD14	20
20	MD15	20
21	MD16	20
22	MD17	20
23	GND	20
24	MD18	20
25	MD19	20
26	MD20	20
27	MD21	20
28	GND	20
29	MD22	20
30	MD23	20
31	MD24	20
32	MD25	20
33	GND	20
34	MD26	20
35	MD27	20
36	MD28	20
37	MD29	20
38	GND	20
39	MD30	20
40	MD31	20

P2. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
55	BA22\	19
56	BA23\	19
57	BA20\	19
58	BA21\	19

5000-558 IP2 SCHEMATIC
5000-559 IP2 ARTWORK
5000-560 IP2 FAB. DRAWING
5000-561-xx IP2 ASSEMBLY DRAWING
5000-562 IP2 TEST PROCEDURES
5000-563 IP2 FUNCTIONAL DESCRIPTION

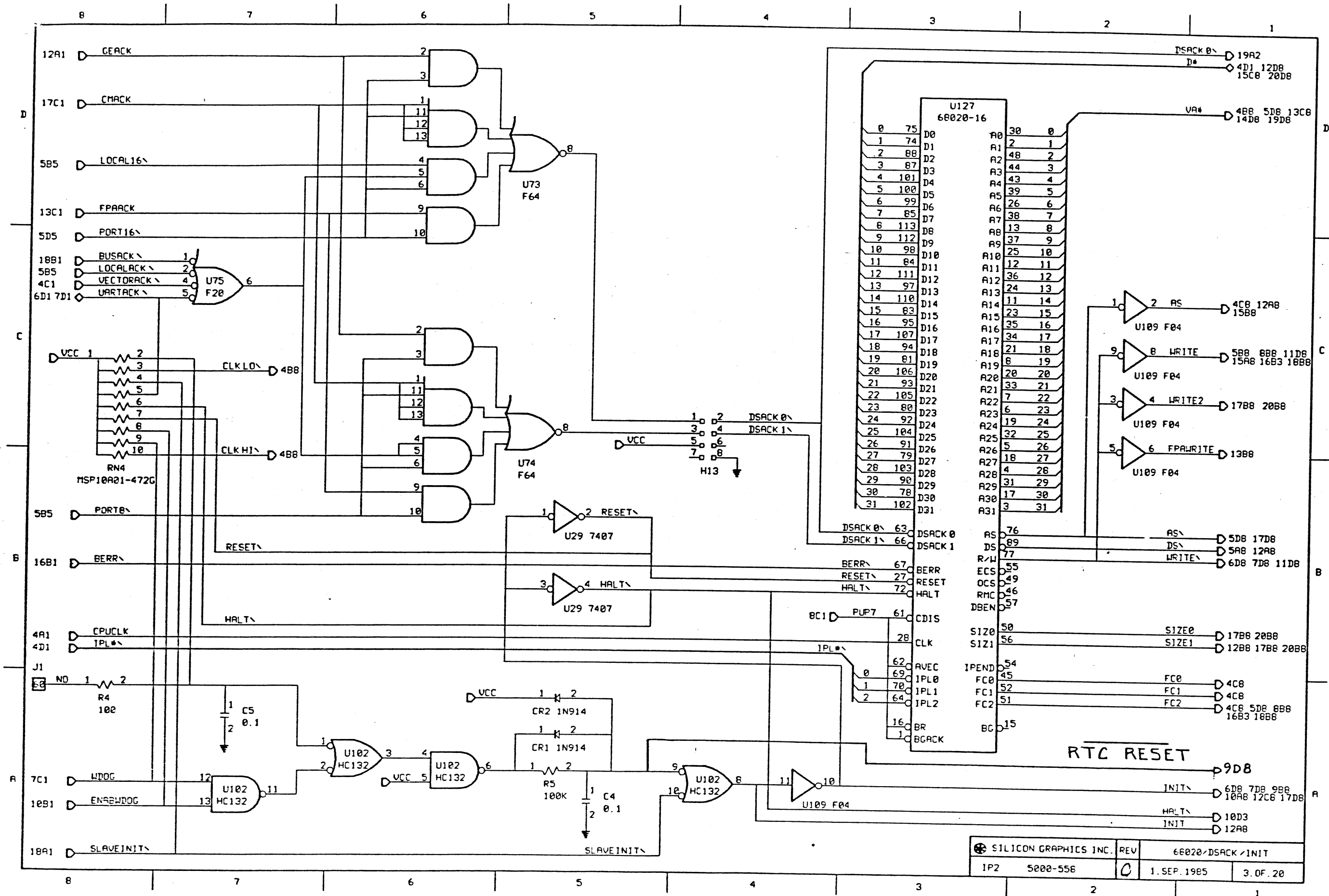
J3. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
1	MA2\	19
2	MA3\	19
3	GND	19
4	MA4\	19
5	MA5	19
6	MA6\	19
7	MA7\	19
8	GND	19
9	MA8\	19
10	MA9\	19
11	MA10\	19
12	MA11\	19
13	GND	19
14	MA12\	19
15	MA13\	19
16	MA14\	19
17	MA15\	19
18	GND	19
19	MA16\	19
20	MA17\	19
21	MA18\	19
22	MA19\	19
23	GND	19
24	MA20\	19
25	MA21\	19
26	MA22\	19
27	MA23\	19
28	GND	19
29	MA24\	19
30	MA25\	19
31	GND	17
32	PENAB\	17
33	GND	17
34	MULTIBUS\	17
35	GND	17
36	WRITE3\	17
37	WRITE2\	17
38	WRITE1\	17
39	WRITE0\	17
40	GND	17
41	TRAS\	17
42	GND	17
43	MOE\	17
44	GND	17
45	BAD\	4
46	GND	17
47	GND	17
48	GND	17
49	PERROR\	17
50	GND	17

J5. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
1	GND	13
2	FPA00\	13
3	FPA01\	13
4	GND	13
5	FPA02\	13
6	FPA03\	13
7	GND	13
8	FPA04\	13
9	FPA05\	13
10	GND	13
11	FPA06\	13
12	GND	13
13	FPA07\	13
14	GND	13
15	FPA08\	13
16	GND	13
17	FPA09\	13
18	GND	13
19	FPA10\	13
20	GND	13

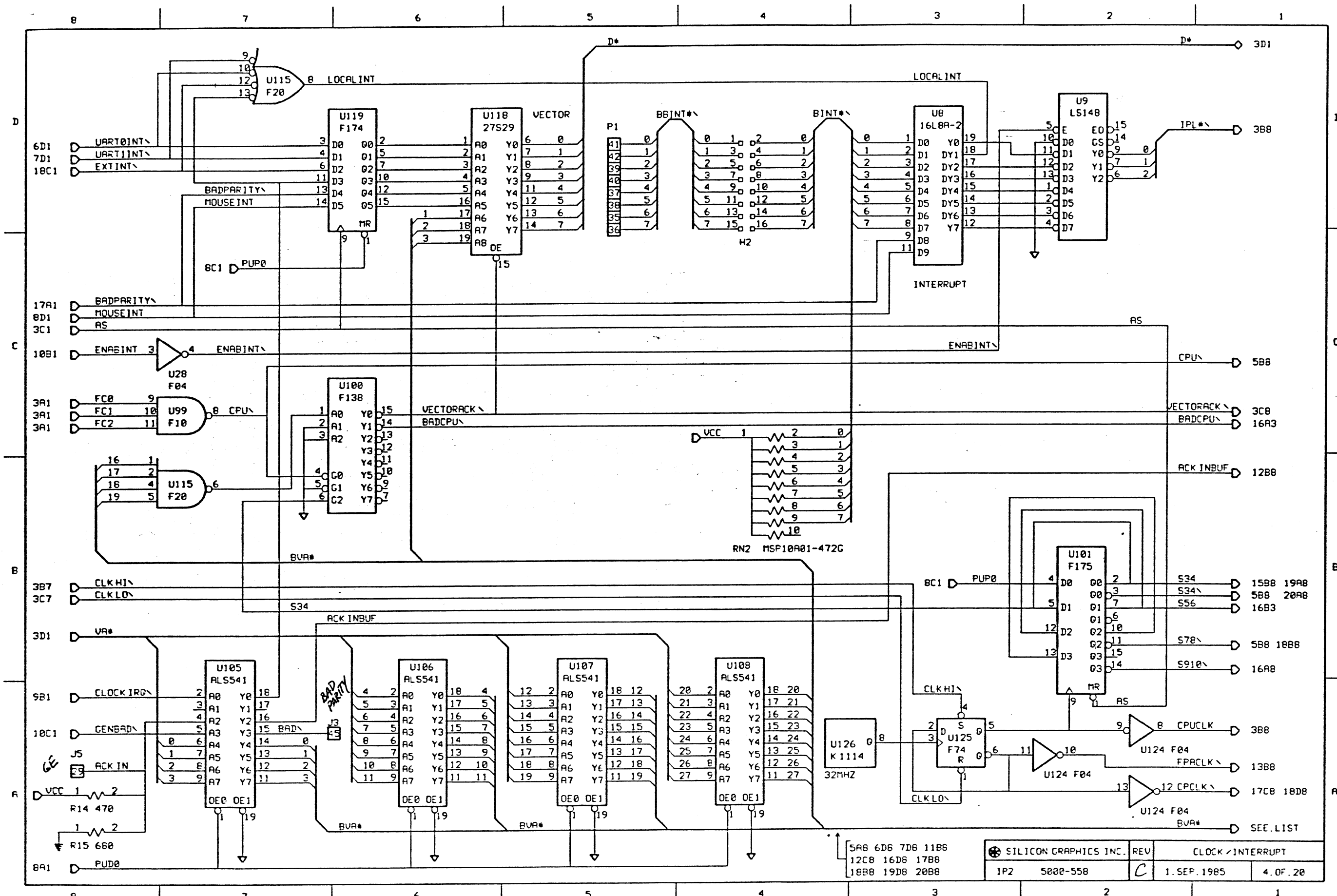
J5. CONNECTIONS		
PIN	SIGNAL NAME	SHEET
1	GEDATA0	12
2	GEDATA1	12
3	GEDATA2	12
4	GEDATA3	12
5	GEDATA4	12
6	GEDATA5	12
7	GEDATA6	12
8	GEDATA7	12
9	GEDATA8	12
10	GEDATA9	12
11	GEDATA10	12
12	GEDATA11	12
13	GEDATA12	12
14	GEDATA13	12
15	GEDATA14	12
16	GEDATA15	12
17	GND	12
18	GND	12
19	GND	12
20	GND	12
21	GND	12
22	GND	12
23	JA12\	12
24	GND	12
25	GND	12
26	GND	12
27	REGOUT	12
28	GND	12
29	ACK IN	4
30	GND	12
31		NC
32	GND	12
33		NC
34	GND	12

NOTE: . P1. PINS. 1-12. AND. 75-86. ON. PAGE. 1

SILICON GRAPHICS INC.	REV	CONNECTOR LEGEND	
IP2	5000-558	C	24. OCT. 1985 2. OF. 20

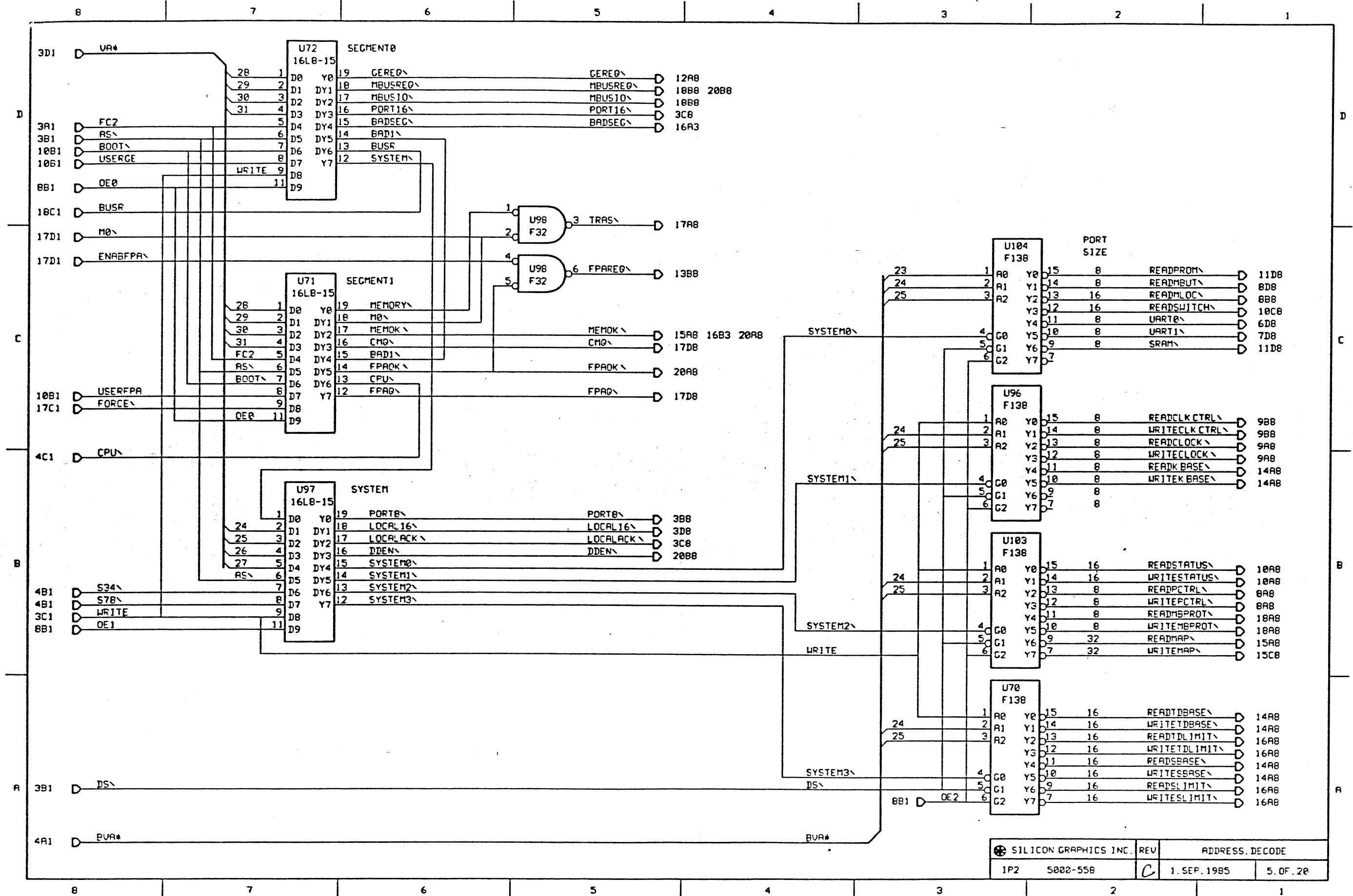


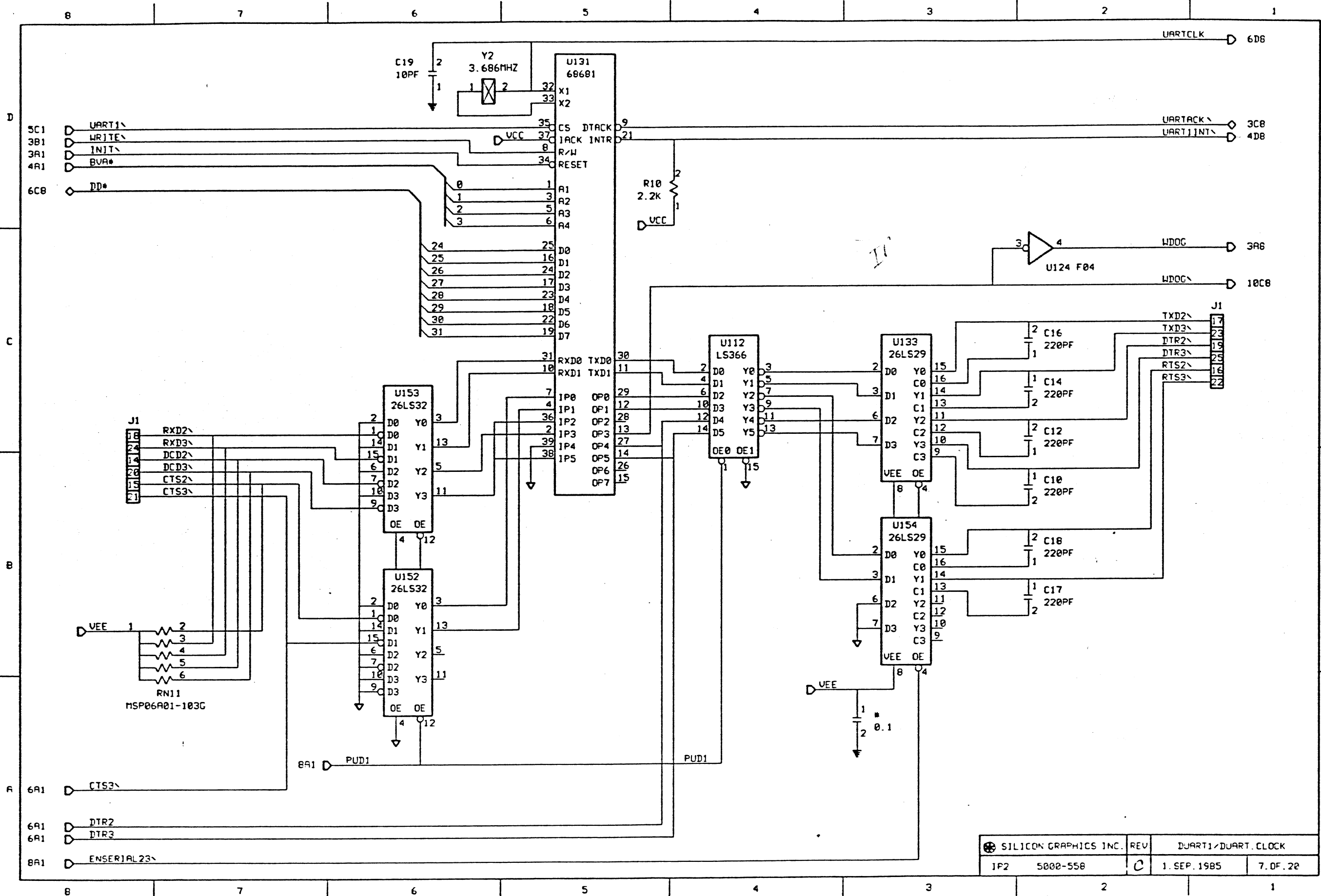
SILICON GRAPHICS INC.		REV	68020-DSACK/INIT	
IP2	5000-556	0	1. SEP. 1985	3. OF. 20



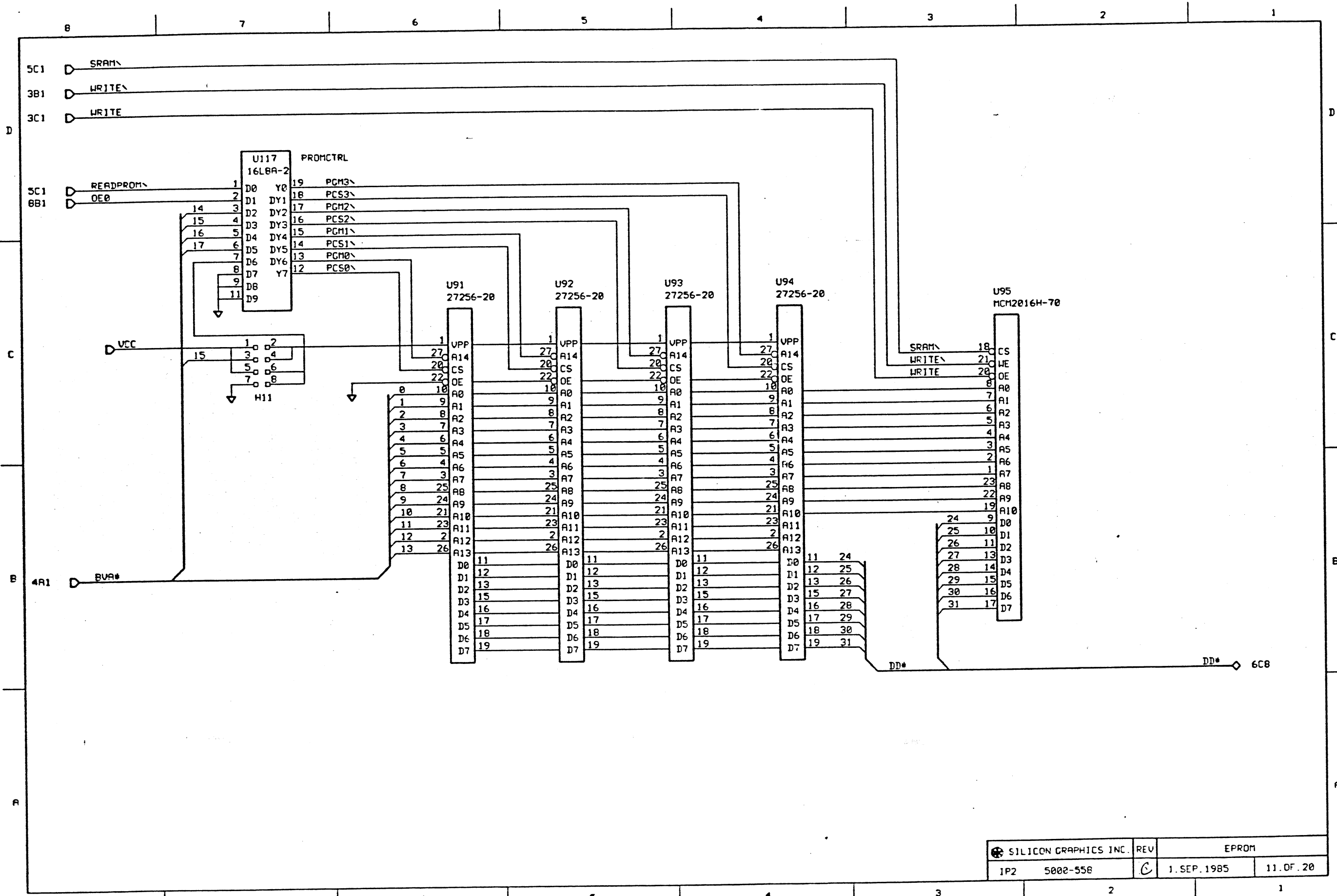
5A8 6D6 7D6 11B8
12C8 16D6 17B8
18B8 19D8 20B8

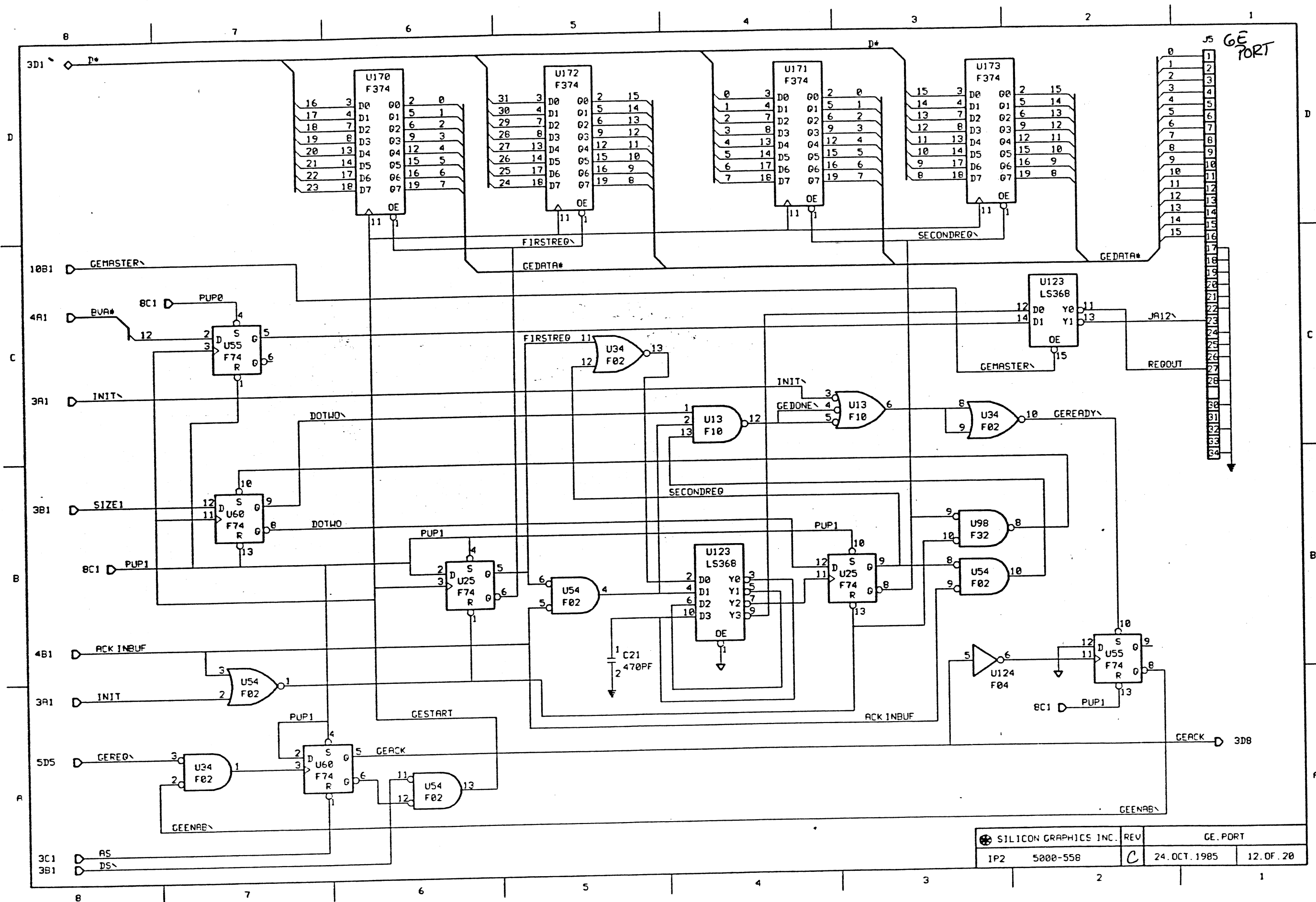
SILICON GRAPHICS INC.	REV	CLOCK / INTERRUPT	
	IP2	5000-558	C
		1. SEP. 1985	4. OF. 20



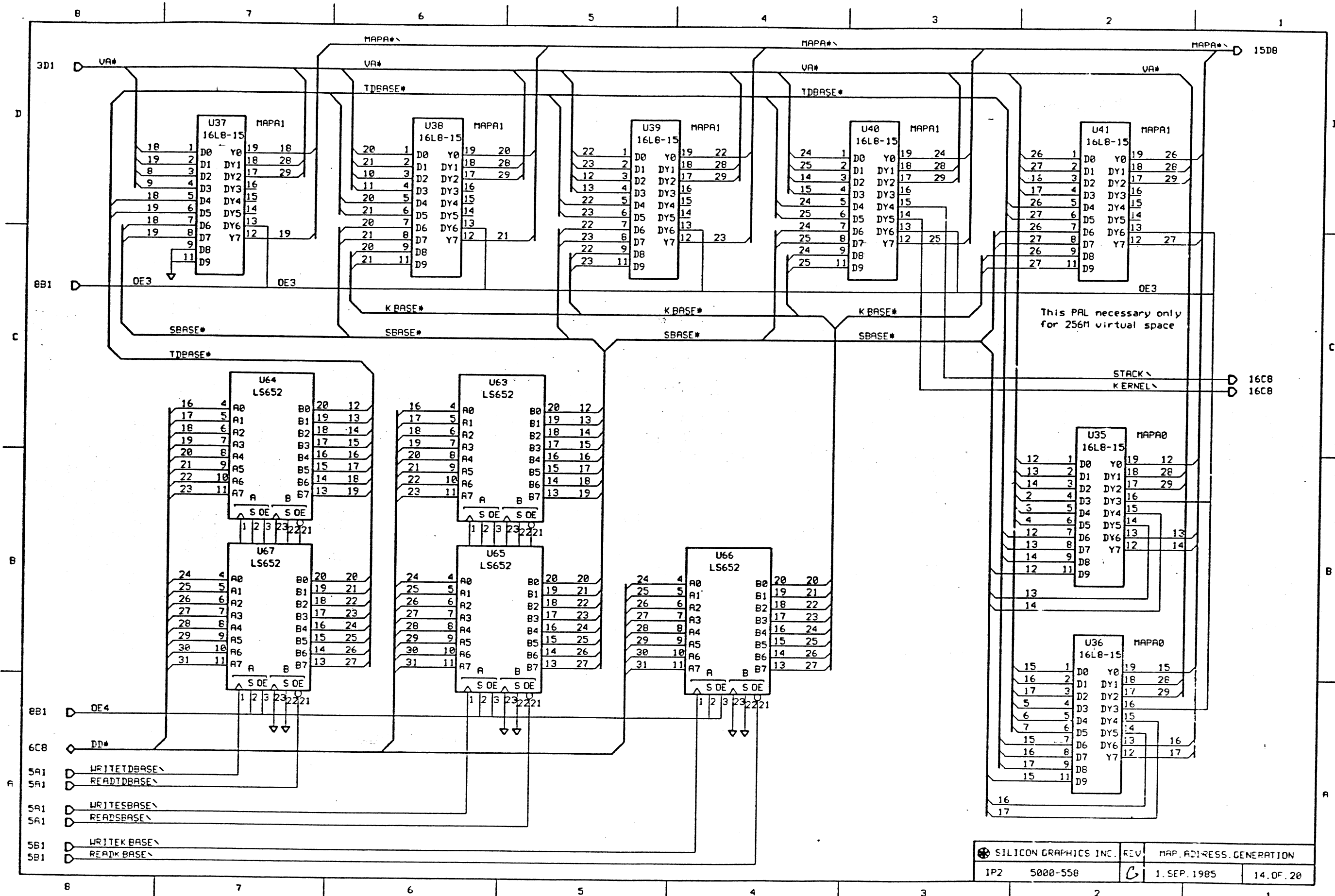


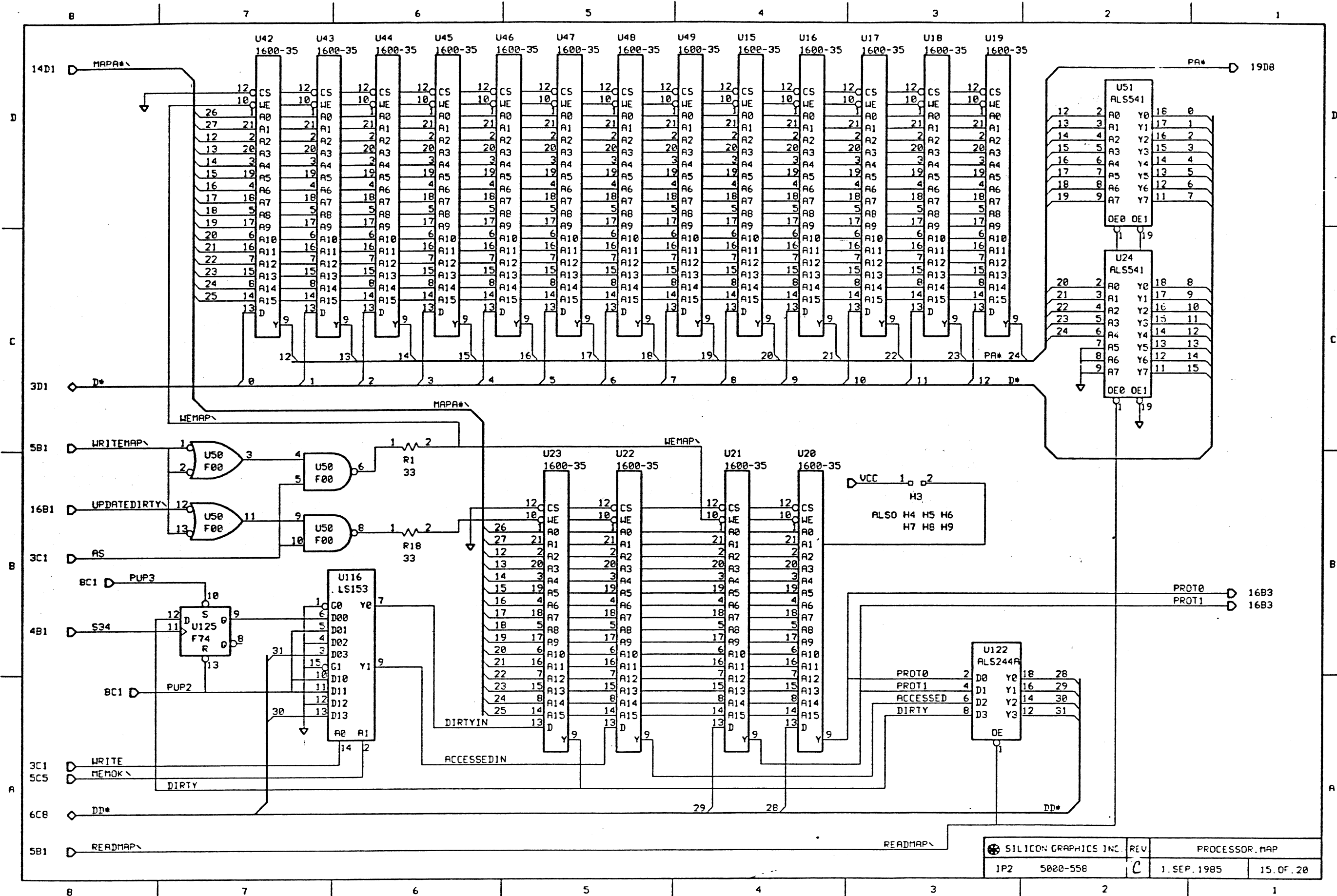
SILICON GRAPHICS INC.		REV	DUART1/DUART.CLOCK	
IP2	5000-558	C	1. SEP. 1985	7. OF. 20

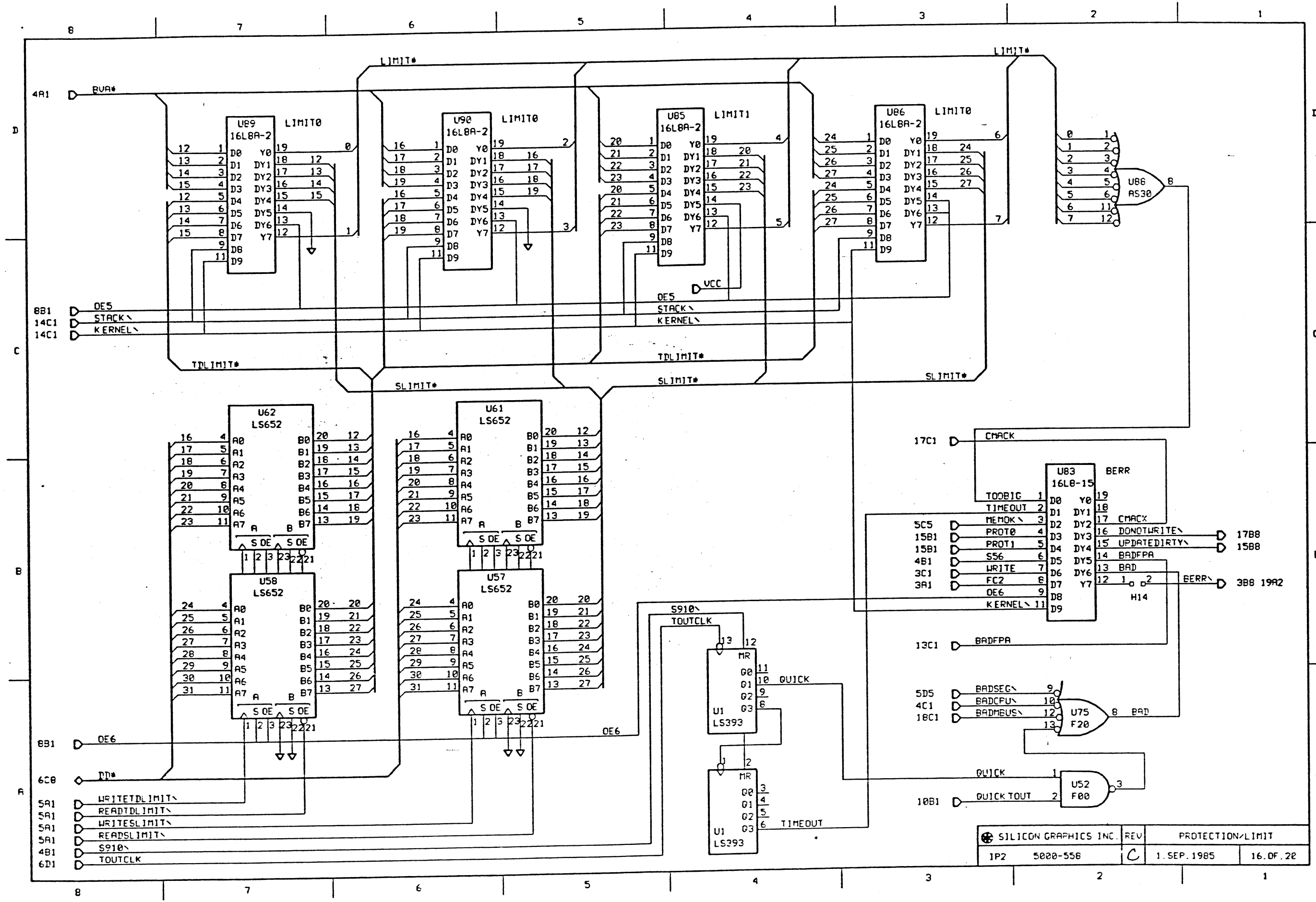




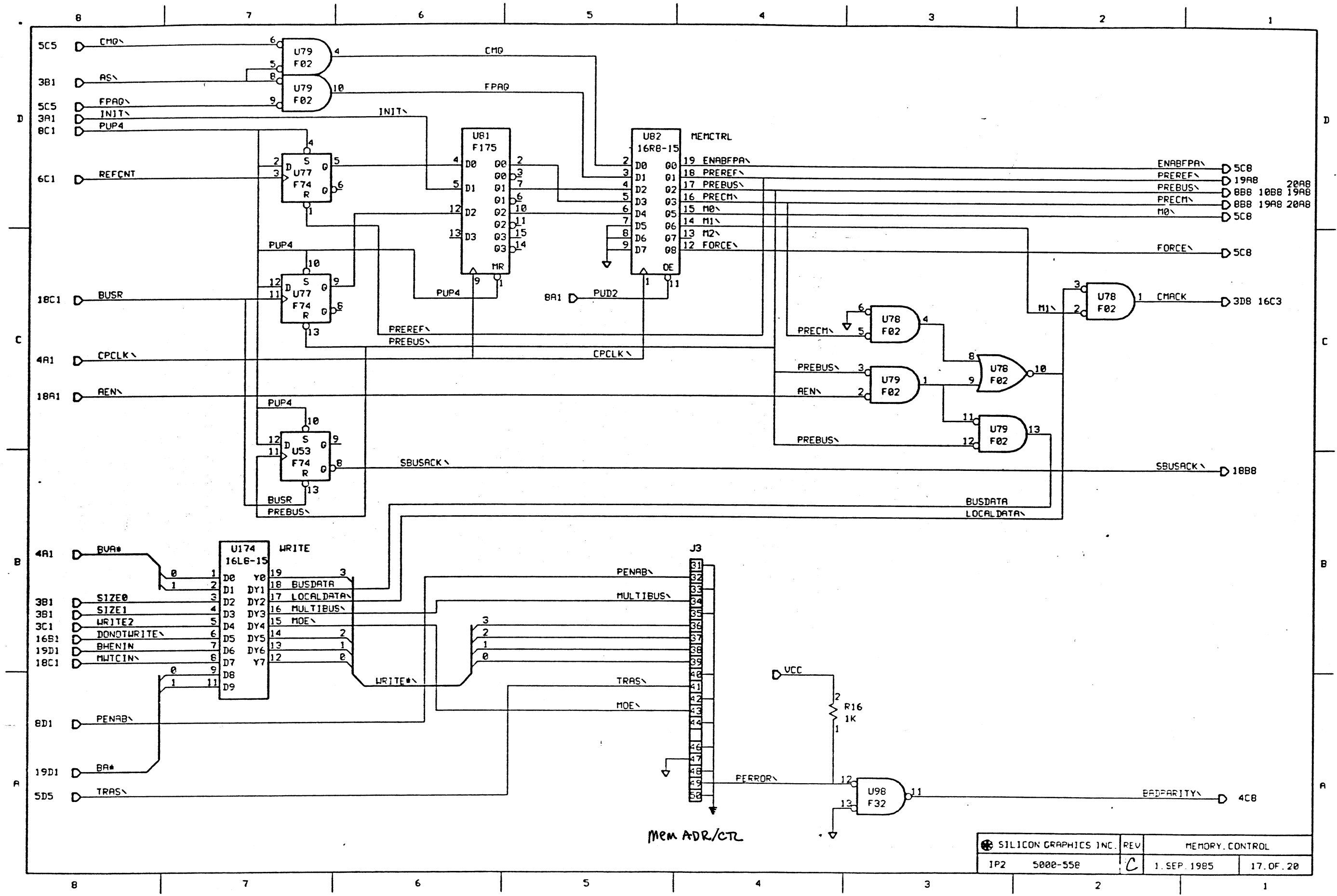
SILICON GRAPHICS INC.		REV	GE. PORT	
1P2	5000-558	C	24. OCT. 1985	12. OF. 20







SILICON GRAPHICS INC.		REV	PROTECTION/LIMIT	
1P2	5000-556	C	1. SEP. 1985	16. OF. 20



SILICON GRAPHICS INC.		REV	MEMORY CONTROL	
IP2	5000-558	C	1. SEP. 1985	17. OF. 20

