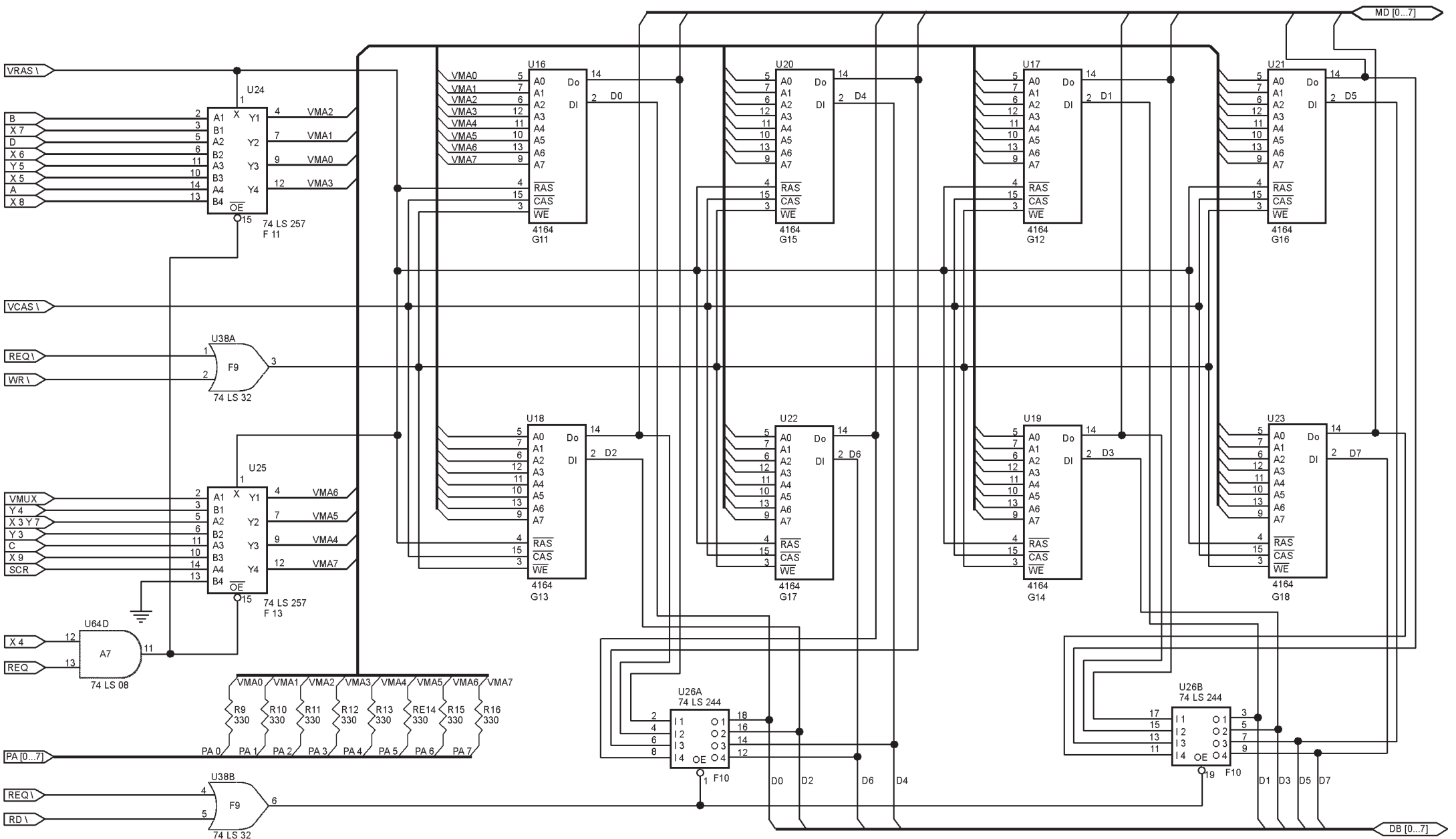


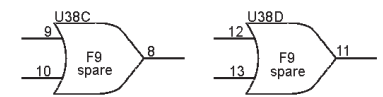
ICE - APME		
Title		HC88 CPU, ROM
		revival by CMD
Size	Document Number	REV
B	869 300 350	A
Date	May 3, 1989	Sheet 1 of 14



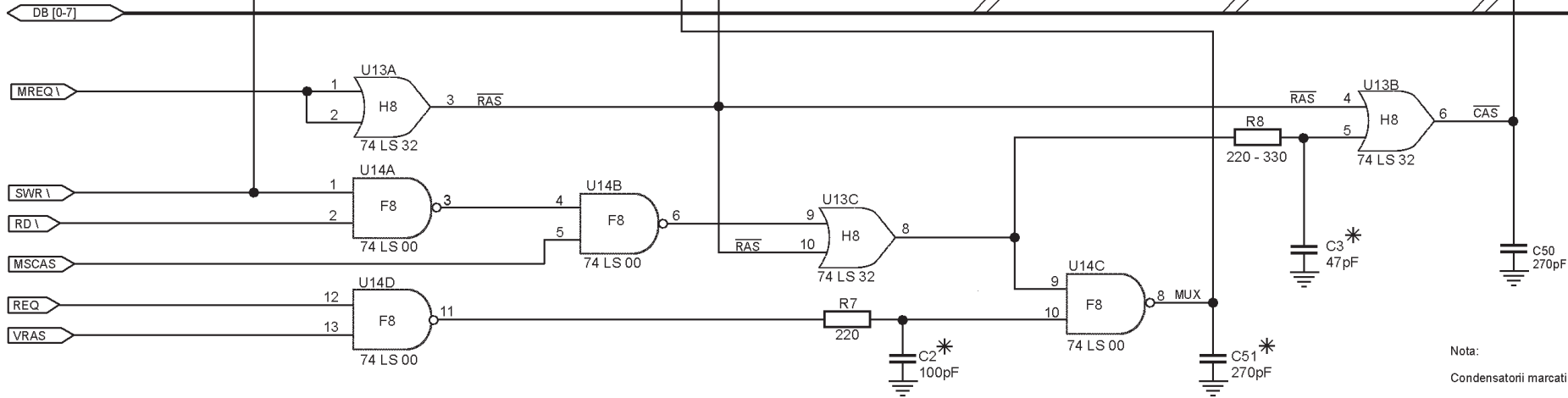
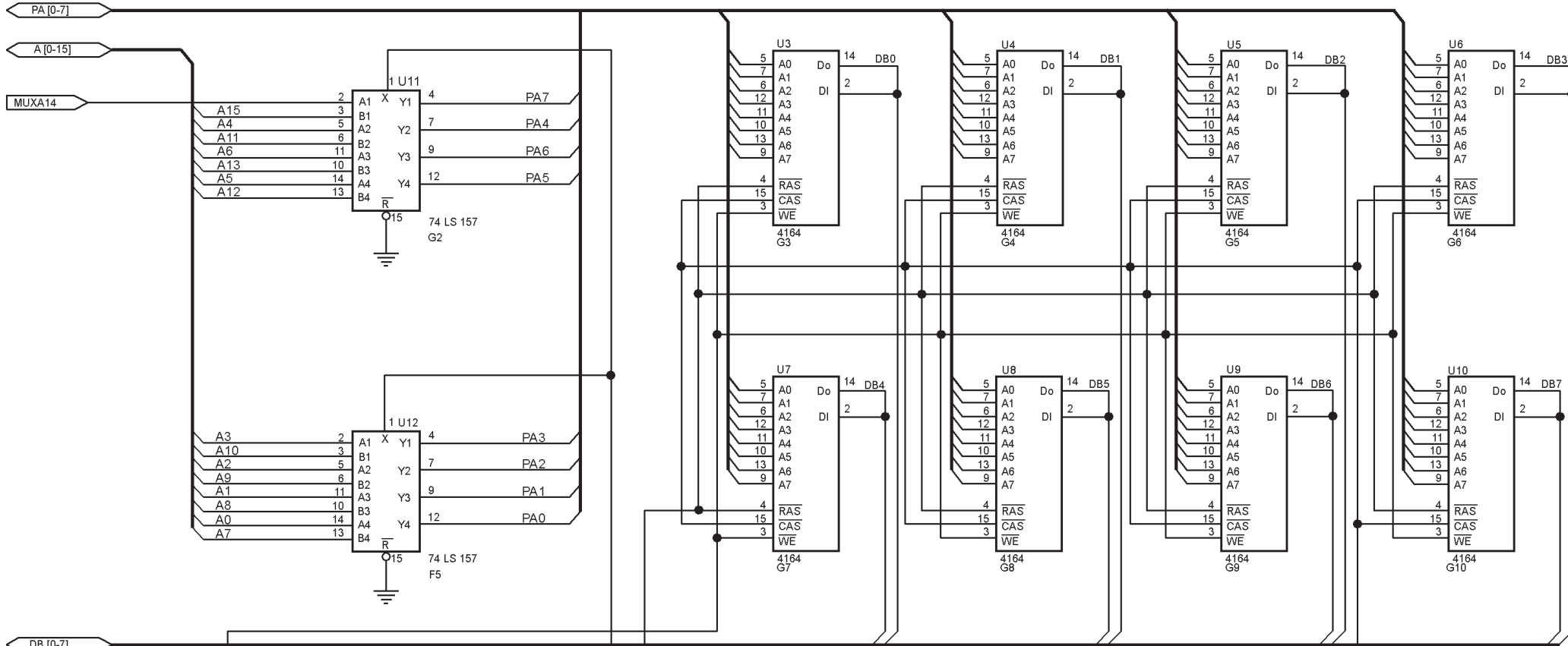
PHASE	CAS	RAS	CAS							RAS						
RANK	A15	A14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0
IP[A0-7]	A15	MUXA14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0
VM[A0-7]	SCR	0	VMUX	X3Y7	C	A	B	D	Y5	Y4	Y3	X9	X8	X7	X6	X5

MOD=0 SPECTRUM mode, resolution 256x192, pixel serializator clock is X1 (7MHz)								
VRAM ADDRESSES	VMA7	VMA6	VMA5	VMA4	VMA3	VMA2	VMA1	VMA0
RAS	0	Y4	Y3	X9	X8	X7	X6	X5
PIXEL CAS	SCR	0	Y7	Y6	Y2	Y1	Y0	Y5
ATTRIBUTES CAS	SCR	0	1	1	0	Y7	Y6	Y5

MOD=1 CP/M mode, resolution 512x192, pixel serializator clock is X0 (14MHz)								
VRAM ADDRESSES	VMA7	VMA6	VMA5	VMA4	VMA3	VMA2	VMA1	VMA0
RAS	0	Y4	Y3	X9	X8	X7	X6	X5
PIXEL CAS	SCR	X4	Y7	Y6	Y2	Y1	Y0	Y5
ATTRIBUTES CAS	SCR	X4	1	1	0	Y7	Y6	Y5

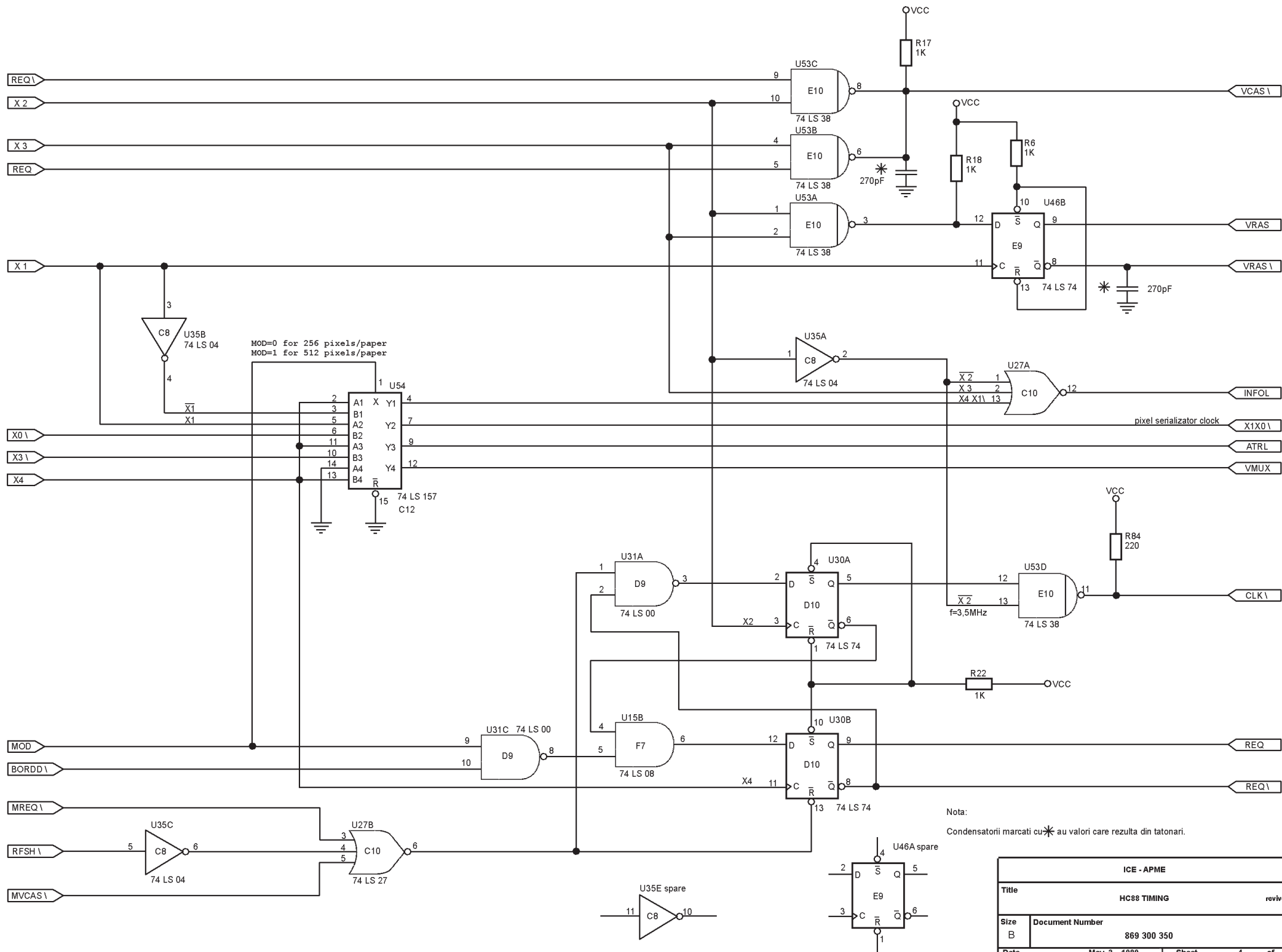


ICE - APME		
Title	HC88 VIDEO MEMORY	revital by CMD
Size	Document Number	REV
B	869 300 350	A
Date	May 22, 1989	Sheet 2 of 14

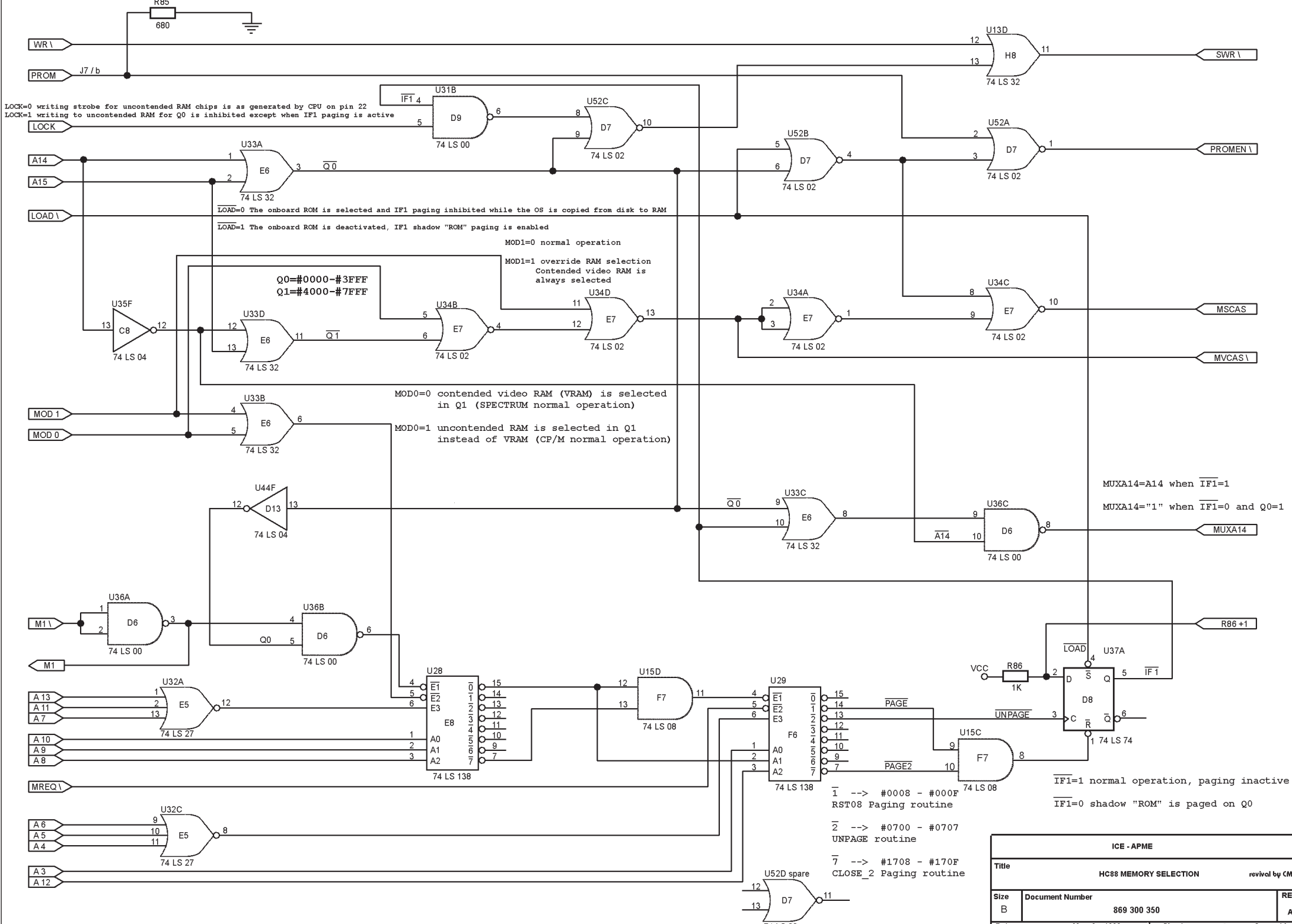


Nota:  
Condensatorii marcati cu \* au valori care rezulta din tatonari.

ICE - APME		
Title		reviz by CMD
HC88 64K UNCONTENDED RAM (SRAM)		
Size	Document Number	REV
B	869 300 350	A
Date	May 3, 1989	Sheet 3 of 14

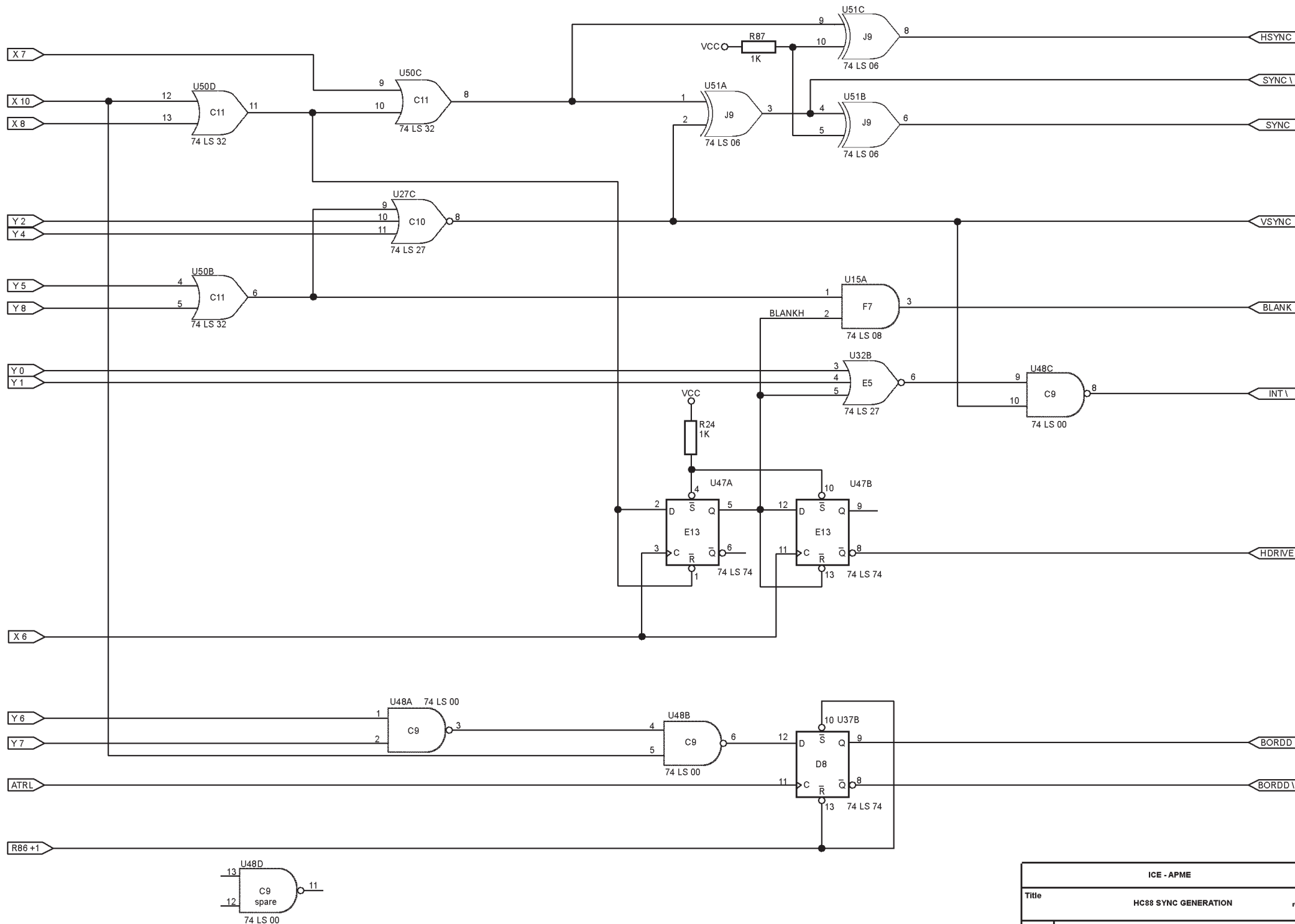


ICE - APME		
Title	HC88 TIMING	revital by CMD
Size	Document Number	REV
B	869 300 350	A
Date	May 3, 1989	Sheet 4 of 14



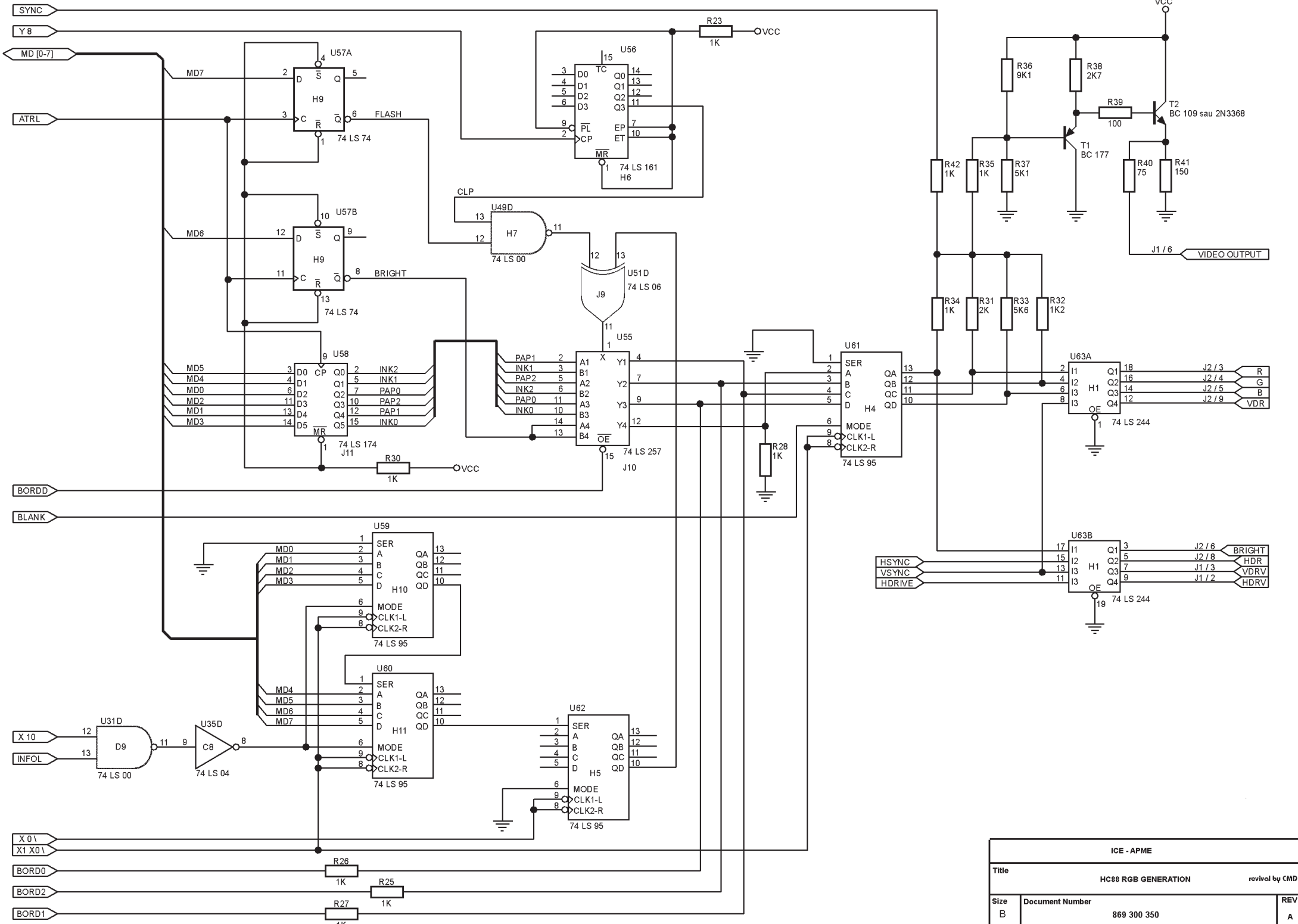
ICE - APME		
Title	HC88 MEMORY SELECTION	revival by CMD
Size	Document Number	REV
B	869 300 350	A
Date	May 3, 1989	Sheet 5 of 14





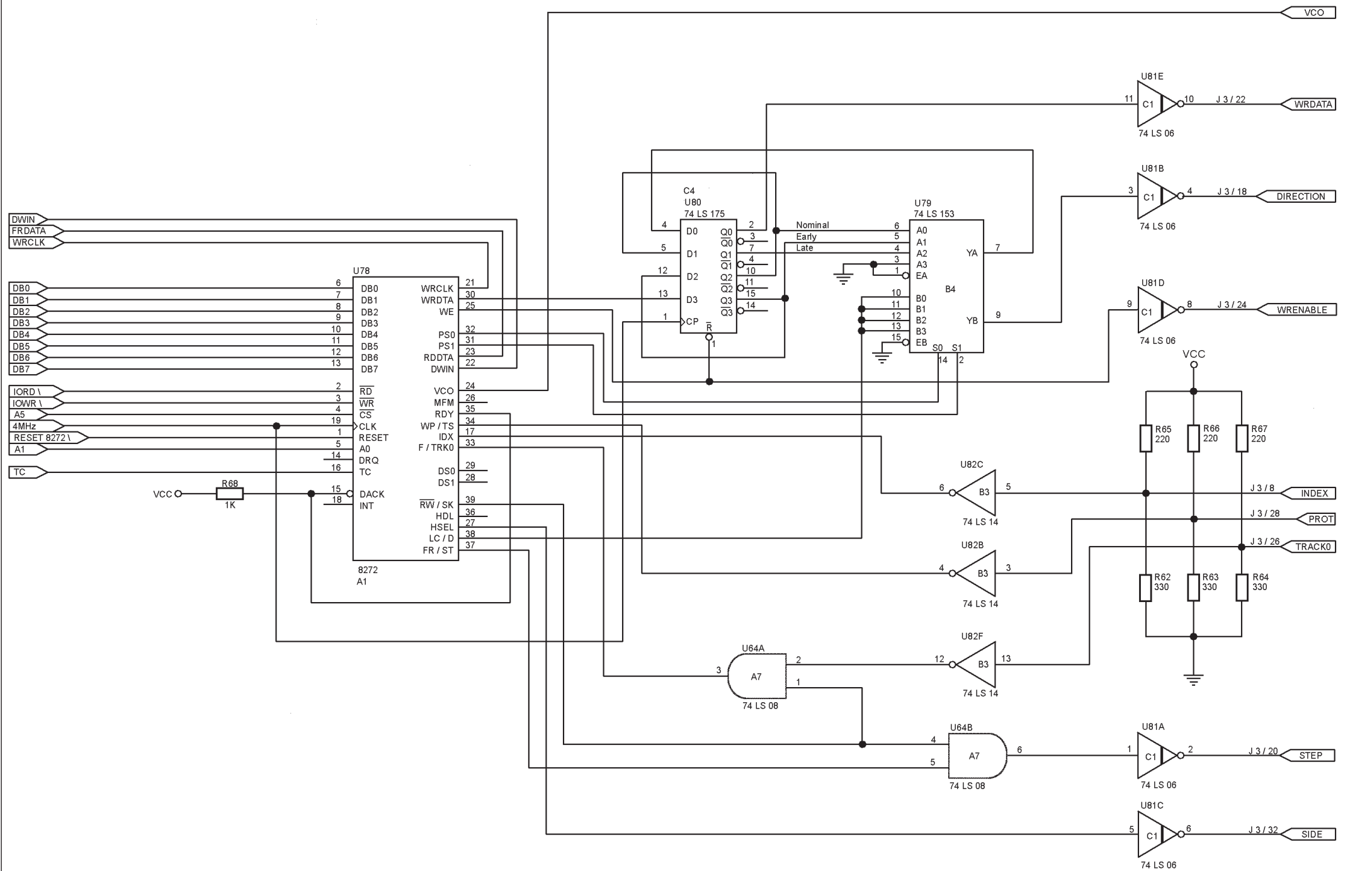
ICE - APME		
Title	HC88 SYNC GENERATION	revival by CMD
Size	Document Number	REV
B	869 300 350	A
Date	January 1, 1990	Sheet 7 of 14



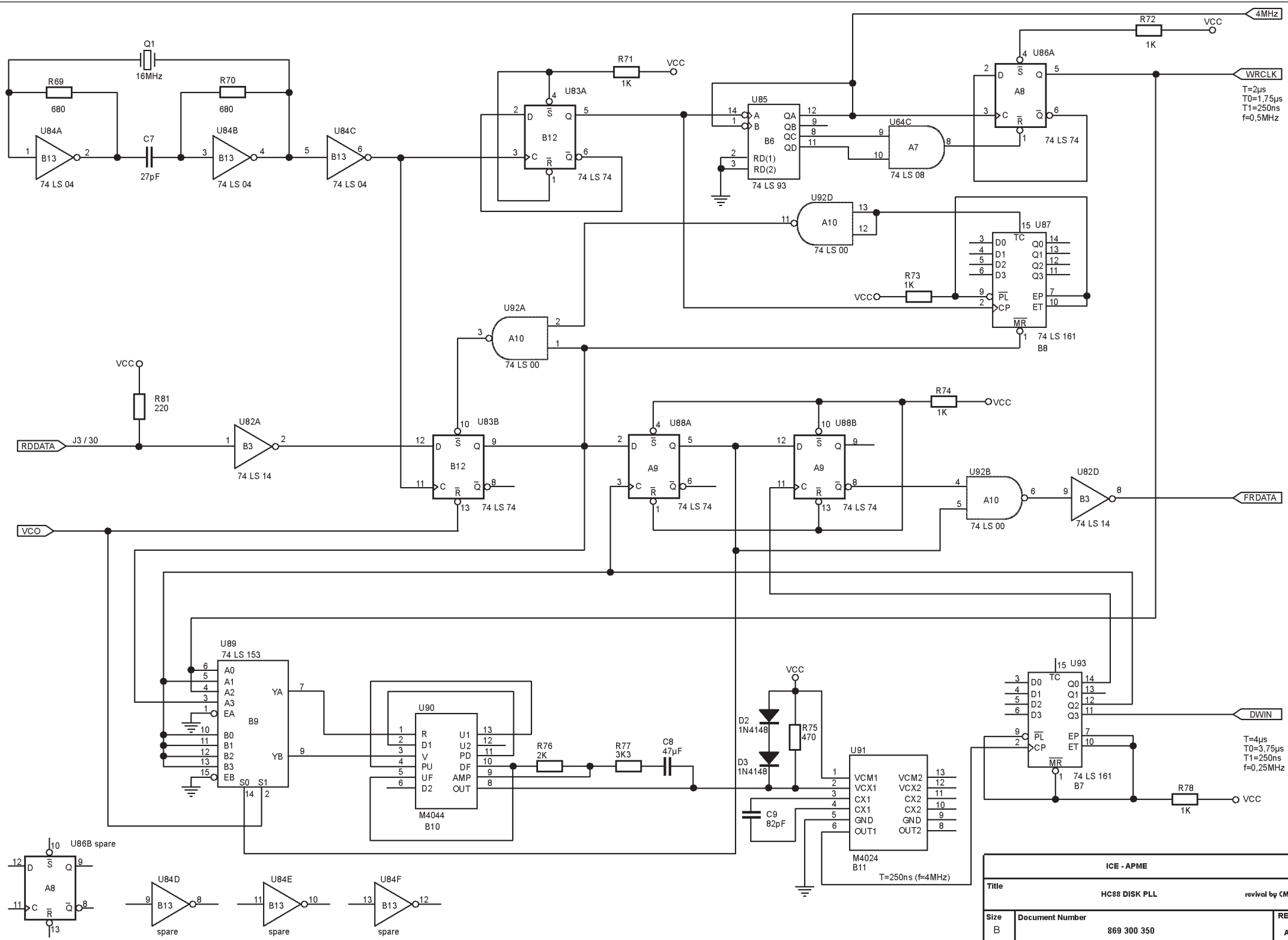


<b>ICE - APME</b>		
Title		revival by CMD
HC88 RGB GENERATION		
Size	Document Number	REV
B	869 300 350	A
Date	May 4, 1989	Sheet 8 of 14

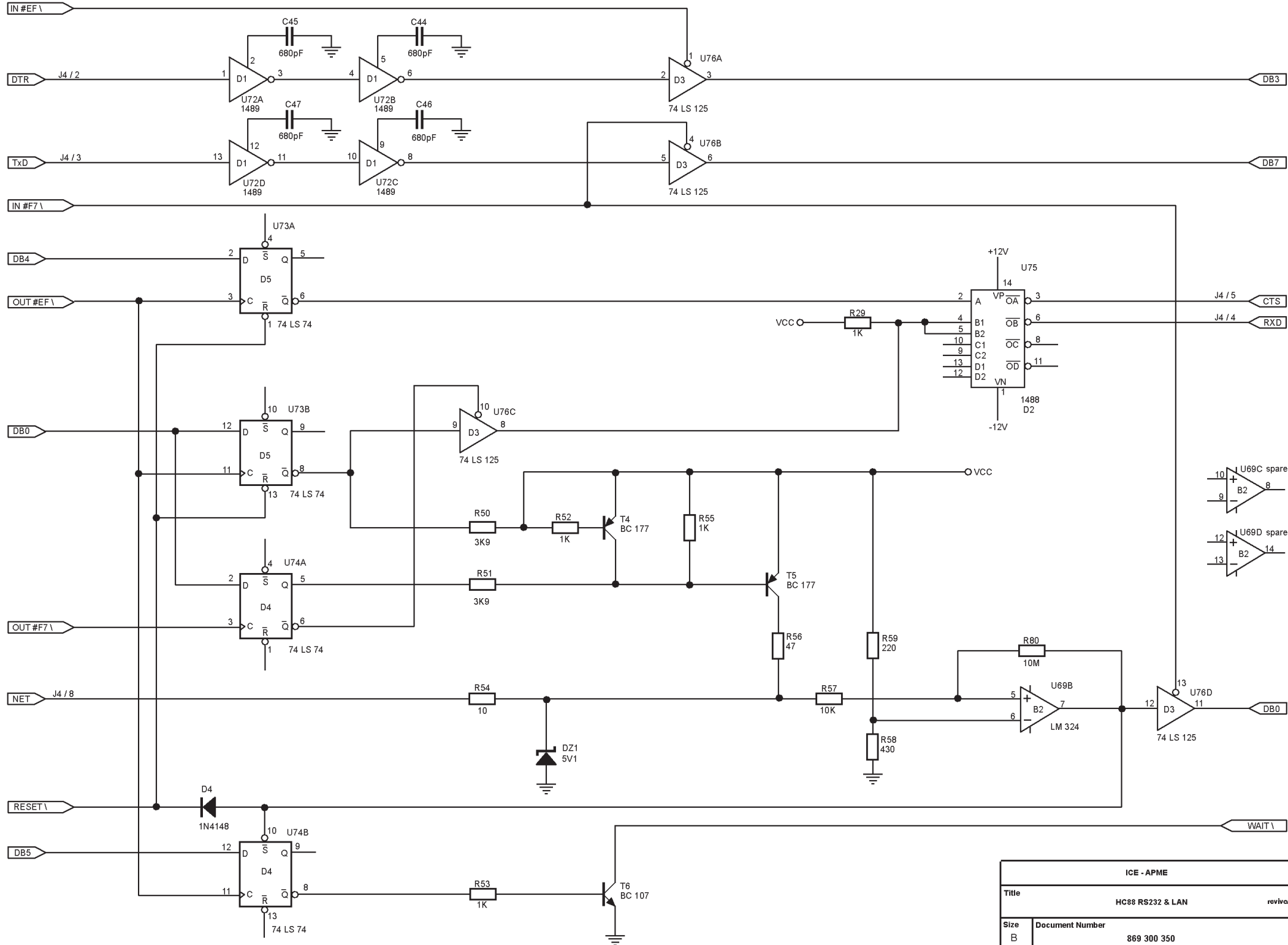




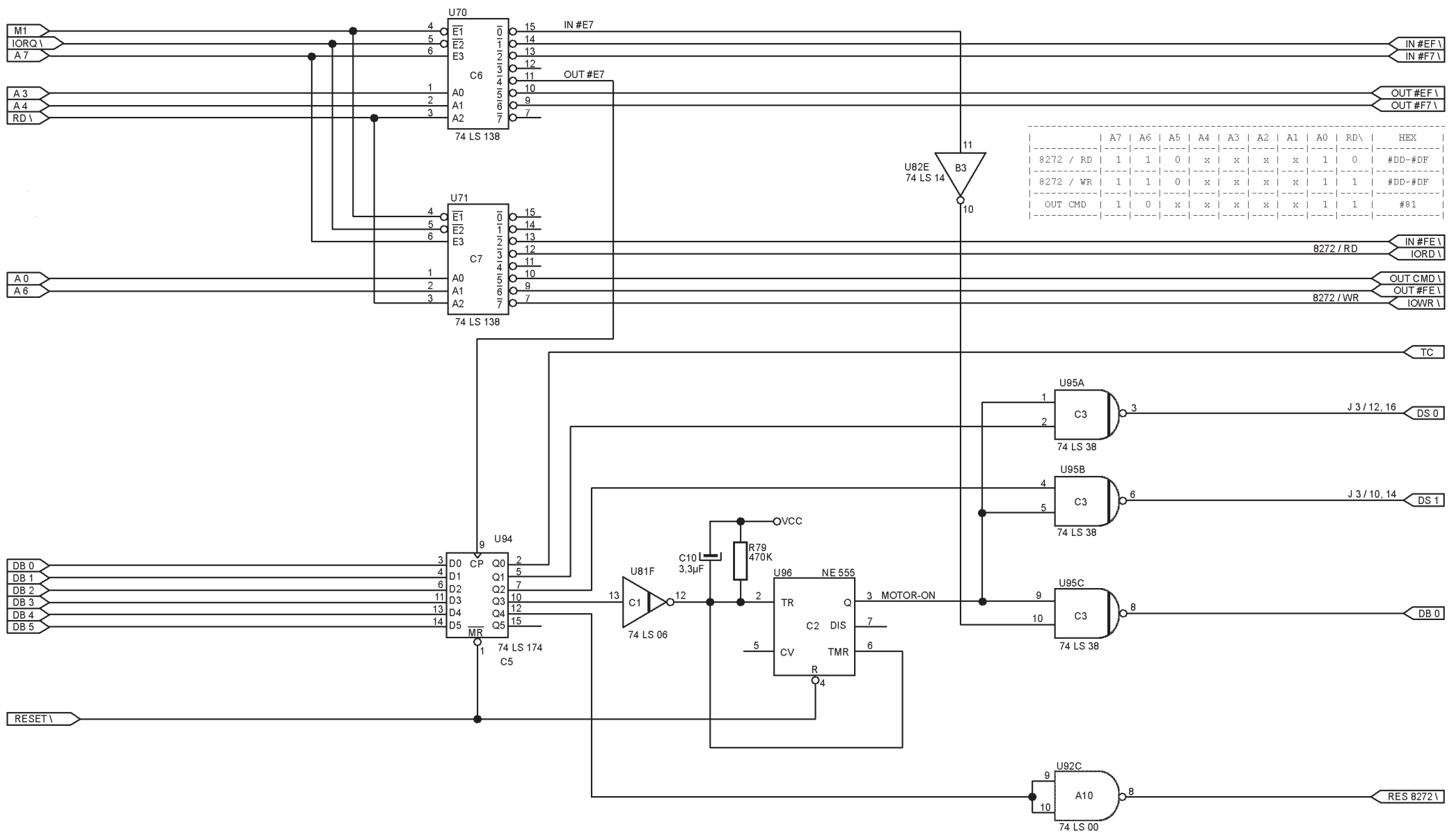
ICE - APME		
Title		revival by CMD
HC88 FDC		
Size	Document Number	REV
B	869 300 350	A
Date	May 4, 1989	Sheet 10 of 14



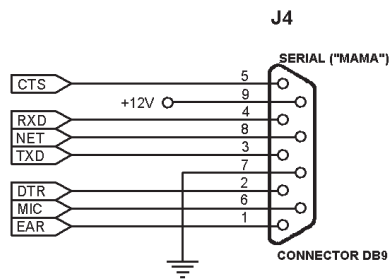
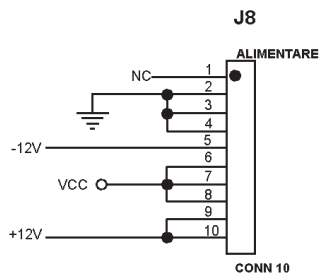
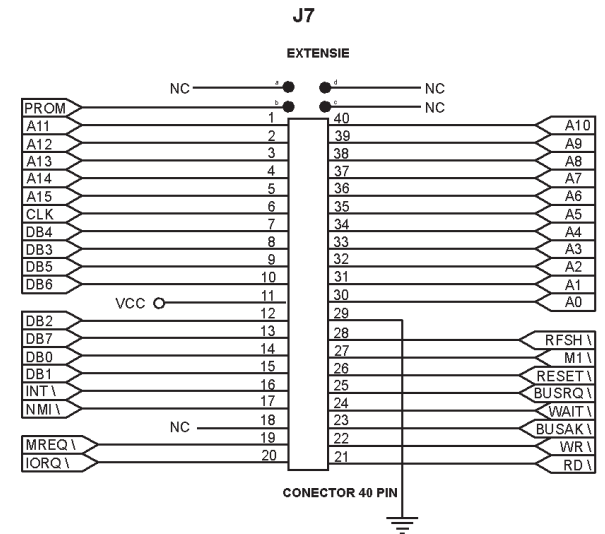
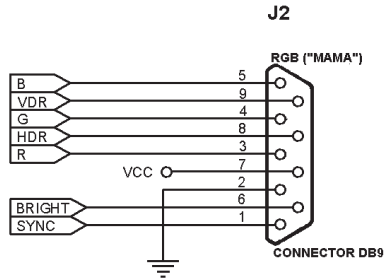
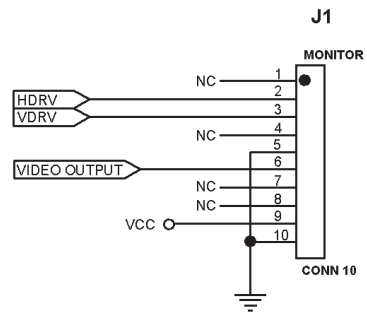
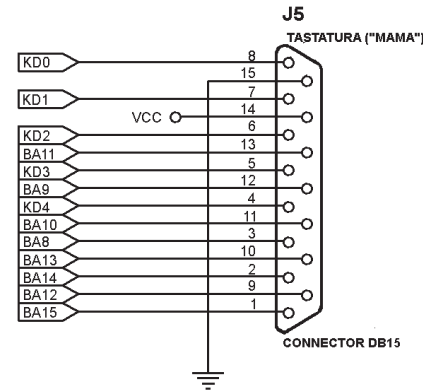
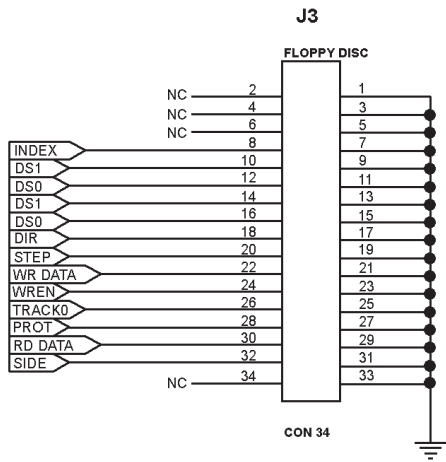
<b>ICE - APME</b>		
Title		revival by CMD
HC88 DISK PLL		
Size	Document Number	REV
B	869 300 350	A
Date	May 4, 1989	Sheet 11 of 14



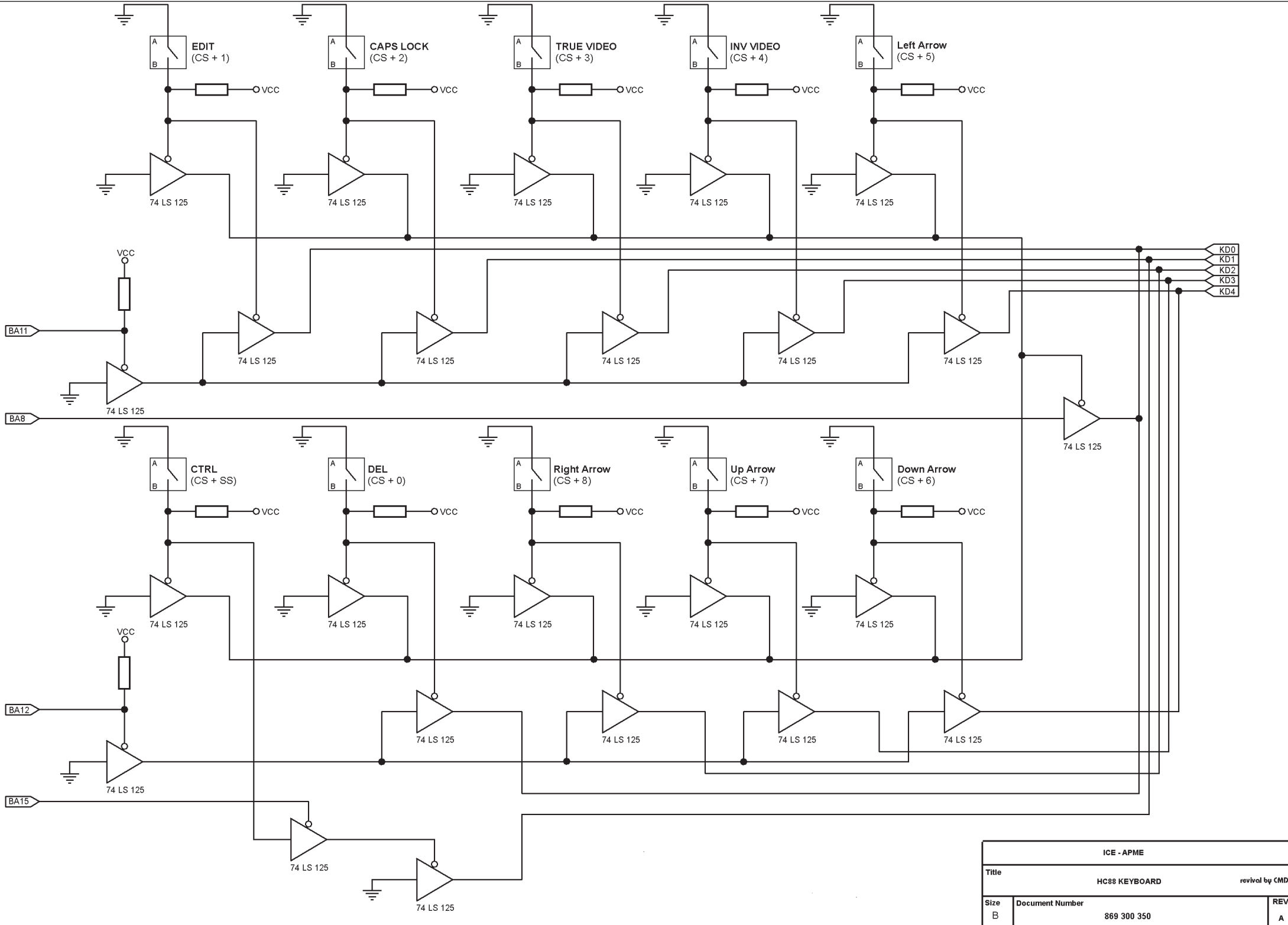
ICE - APME		
Title		revival by CMD
HC88 RS232 & LAN		
Size	Document Number	REV
B	869 300 350	A
Date	January 1, 1990	Sheet 12 of 14



ICE - APME		
Title		HC88 I/O PORTS
		revival by CMD
Size	Document Number	REV
B	869 300 350	A
Date	December 16, 1989	Sheet 13 of 14



ICE - APME		
Title		revival by CMD
HC88 CONNECTORS		
Size	Document Number	REV
B	869 300 350	A
Date	December 13, 1989	Sheet 14 of 14



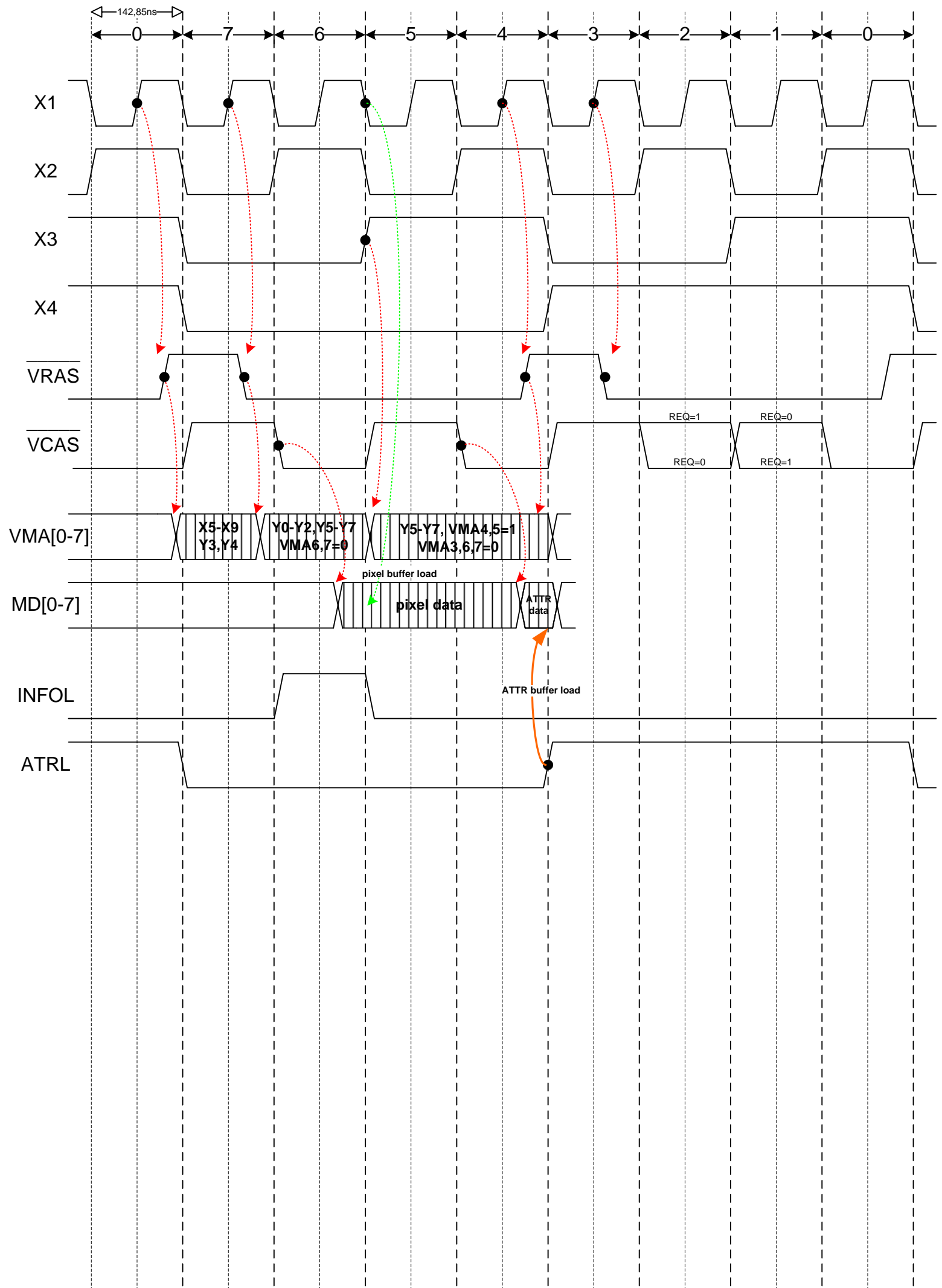
ICE - APME		
Title		revival by CMD
HC88 KEYBOARD		
Size	Document Number	REV
B	869 300 350	A
Date	January 1, 1990	Sheet 1 of 1



Lista componente HC-88

U#	Type	Position
U1	Z80-CPU	E2
U2	2716	E4
U3-U10	4564	G3-G10
U11	74 LS 157	G2
U12	74 LS 157	F5
U13	74 LS 32	H8
U14	74 LS 00	F8
U15	74 LS 08	F7
U16-U23	4516	G11-G18
U24	74 LS 257	F11
U25	74 LS 257	F13
U26	74 LS 244	F10
U27	74 LS 27	C10
U28	74 LS 138	E8
U29	74 LS 138	F6
U30	74 LS 74	D10
U31	74 LS 00	D9
U32	74 LS 27	E5
U33	74 LS 32	E6
U34	74 LS 02	E7
U35	74 LS 04	C8
U36	74 LS 00	D6
U37	74 LS 74	D8
U38	74 LS 32	F9
U39	74 LS 161	E11
U40	74 LS 161	D11
U41	74 LS 161	E12
U42	74 LS 161	D12
U43	74 LS 157	F12
U44	74 LS 04	D13
U45	74 LS 161	C13
U46	74 LS 74	E9
U47	74 LS 74	E13
U48	74 LS 00	C9
U49	74 LS 00	H7
U50	74 LS 32	C11
U51	74 LS 06	J9
U52	74 LS 02	D7
U53	74 LS 38	E10
U54	74 LS 157	C12
U55	74 LS 257	J10
U56	74 LS 161	H6
U57	74 LS 74	H9
U58	74 LS 174	J11
U59	74 LS 95	H10
U60	74 LS 95	H11

U61	74 LS 95	H4
U62	74 LS 95	H5
U63	74 LS 244	H1
U64	74 LS 08	A7
U65	74 LS 125	G1
U66	74 LS 244	F1
U67	74 LS 174	B1
U68	74 LS 174	B5
U69	LM 324	B2
U70	74 LS 138	C6
U71	74 LS 138	C7
U72	MC 1489	D1
U73	74 LS 74	D5
U74	74 LS 74	D4
U75	MC 1488	D2
U76	74 LS 125	D3
U77	74 LS 125	E1
U78	I8272	A1
U79	74 LS 153	B4
U80	74 LS 175	C4
U81	74 LS 06	C1
U82	74 LS 14	B3
U83	74 LS 74	B12
U84	74 LS 04	B13
U85	74 LS 93	B6
U86	74 LS 74	A8
U87	74 LS 161	B8
U88	74 LS 74	A9
U89	74 LS 153	B9
U90	M 4044	B10
U91	M 4024	B11
U92	74 LS 00	A10
U93	74 LS 161	B7
U94	74 LS 174	C3
U95	74 LS 38	C3
U96	LM 555	C2



HC88. LST

\*\*\*\*\*  
 \*\*\*\*\* HC-88 bootstrap 2K ROM incomplete disassembly by CMD \*\*\*\*\*  
 \*\*\*\*\*

```

0000 F3          di
0001 3E01        ld      a, 1
0003 D3FE        out     (0FEh), a      ; set BORDER
colour Blue
0005 310090      ld      sp, 9000h
0008          ; clearing pixels screen #4000-#57FF
0008 210040      ld      hl, 4000h
000B 3600        ld      (hl), 0
000D 110140      ld      de, 4001h
0010 01FF17      ld      bc, 17FFh
0013 EDB0        ldir
0015          ; setting INK=7 PAPER=0 for screen #4000-#57FF
0015 23          inc     hl
0016 13          inc     de
0017 3638        ld      (hl), 38h ; '8' ; <void>
0019 01FF02      ld      bc, 2FFh ; <void>
001C EDB0        ldir
001E          ; clearing pixels 2nd screen #6000-#71FF
001E 210060      ld      hl, 6000h
0021 3600        ld      (hl), 0
0023 110160      ld      de, 6001h
0026 01FF17      ld      bc, 17FFh
0029 EDB0        ldir
002B          ; setting INK=7 PAPER=0 for 2nd screen
002B 23          inc     hl
002C 13          inc     de
002D 3638        ld      (hl), 38h ; '8' ; <void>
002F 01FF02      ld      bc, 2FFh ; <void>
0032 EDB0        ldir
0034 3E00        ld      a, 0
0036 D3E7        out     (0E7h), a      ; Reset 8272
control register.
0038 3E10        ld      a, 10h
003A D3E7        out     (0E7h), a      ; Set signal
RES8272
003C CD3002      call    Init8272
003F 216602      ld      hl, 266h ; <void>; copy 19 octets
from #0266 to #9010
0042 111090      ld      de, 9010h
0045 011300      ld      bc, 13h
0048 EDB0        ldir
004A 011090      ld      bc, 9010h
004D CD5C01      call    loc_15C
0050 3E02        ld      a, 2
0052 D3FE        out     (0FEh), a      ; BORDER=2 red
0054 3E08        ld      a, 8
0056 321B90      ld      (byte_901B), a
0059 011090      ld      bc, 9010h
005C CD5C01      call    loc_15C
005F 384C        jr      c, Reset_8272
0061 3E03        ld      a, 3
0063 D3FE        out     (0FEh), a      ; BORDER=3 cyan
0065 3E01        ld      a, 1
0067 321B90      ld      (byte_901B), a
006A 3A0E90      ld      a, (byte_900E)
006D 321290      ld      (byte_9012), a
0070 FE02        cp      2
0072 2821        jr      z, loc_95
0074
0074          loc_74:
0074          ; CODE XREF: 007Aj
0074 011090      ld      bc, 9010h
0077 CD5C01      call    loc_15C
007A 38F8        jr      c, loc_74
007C 3E04        ld      a, 4

```

```

                                HC88. LST
007E D3FE                        out    (0FEh), a      ; BORDER=4 green
0080 FD3406                      inc    (i y+6)
0083 FD3404                      inc    (i y+4)
0086
0086                loc_86:
0086
                                ; CODE XREF: 008Cj
0086 011090                      ld     bc, 9010h
0089 CD5C01                      call  loc_15C
008C 38F8                        jr     c, loc_86
008E 3E00                        ld     a, 0
0090 D3FE                        out    (0FEh), a      ; BORDER=0 black
0092 C30080                      jp     unk_8000
0095
-----
0095                loc_95:
0095
                                ; CODE XREF: 0072j
0095 3E05                        ld     a, 5
0097 D3FE                        out    (0FEh), a
0099 3E00                        ld     a, 0
009B 321490                      ld     (byte_9014), a
009E
009E                loc_9E:
009E
                                ; CODE XREF: 00A4j
009E 011090                      ld     bc, 9010h
00A1 CD5C01                      call  loc_15C
00A4 38F8                        jr     c, loc_9E
00A6 3E00                        ld     a, 0
00A8 D3FE                        out    (0FEh), a
00AA C30080                      jp     unk_8000
00AD
-----
00AD                Reset_8272:
00AD
                                ; CODE XREF: 005Fj
00AD 3E10                        ld     a, 10h
00AF D3E7                        out    (0E7h), a      ; Reset 8272
00B1 76                          halt
00B2
00B2                Write_8272_dataregister:
00B2
                                ; CODE XREF: 00CBp
00B2 D3DF                        out    (0DFh), a      ; load command in
8272 data register
00B4 E3                          ex     (sp), hl      ; some delay
00B5 E3                          ex     (sp), hl      ; some delay
00B6 E3                          ex     (sp), hl      ; some delay
00B7 E3                          ex     (sp), hl      ; some delay
00B8 C9                          ret
00B9
-----
00B9                Read_8272_dataregister:
00B9
                                ; CODE XREF: 0155p
00B9 DBDF                        in     a, (0DFh)
00BB E3                          ex     (sp), hl
00BC E3                          ex     (sp), hl
00BD E3                          ex     (sp), hl
00BE E3                          ex     (sp), hl
00BF C9                          ret
00C0
-----
00C0                Set_8272_command:
00C0
                                ; CODE XREF: 00DEp
00E4p 01BCp 01E9p
00C0
                                ; 0202p 0217p
0220p
00C0 210090                      ld     hl, 9000h

```

HC88.LST

```

00C0          B=length of command sequence; C=first parameter;
00C0          (#9001)=second parameter etc.
00C3
00C3          GetSta_SetCommand:
00C3                                     ; CODE XREF: 00C6j
00D0j 023Ep
00C3 DBDD          in      a, (ODDh)          ; 8272 GetStatus
00C5 17          rla
00C6 30FB          jr      nc, GetSta_SetCommand; RQM=0 not
ready then check      again!
00C8 17          rla
00C9 D8          ret      c          ; RQM=1 DI0=1 so
return
00CA          RQM=1 DI0=0 => 8272 ready to receive command
00CA 79          ld      a, c          ; Load in A first
command parameter
00CB CDB200       call     Write_8272_dataregister
00CE 4E          ld      c, (hl)          ; Fetch next
parameter
00CF 23          inc     hl
00D0 10F1        djnz   GetSta_SetCommand
00D2 C9          ret
00D3
-----
00D3
00D3          loc_D3:
00D3                                     ; CODE XREF: 01ABp
01F2p
00D3 320190       ld      (command_parameter_3rd), a
00D6 210F90       ld      hl, 900Fh
00D9 BE          cp      (hl)
00DA C8          ret      z
00DB 010F03       ld      bc, 30Fh ; <voi d>
00DE CDC000       call    Set_8272_command
00E1          ; <voi d>
00E1          loc_E1: ; <voi d>
00E1                                     ; CODE XREF: 00EFj
01ECp 021Ap 0223p ; <voi d>
00E1 010801       ld      bc, 108h ; <voi d>
00E4 CDC000       call    Set_8272_command
00E7 CD4001       call    loc_140
00EA 3A0890       ld      a, (byte_9008)
00ED E620          and     20h ; ' ' ; <voi d>
00EF 28F0          jr      z, loc_E1
00F1 210F90       ld      hl, 900Fh
00F4 3A0990       ld      a, (byte_9009)
00F7 77          ld      (hl), a
00F8 3E0A          ld      a, 0Ah
00FA          ; <voi d>
00FA          Delay: ; <voi d>
00FA                                     ; CODE XREF: 0100j
0245p ; <voi d>
00FA 0EDA          ld      c, 0DAh ; 'Ú' ; <voi d>
00FC
00FC          Delay_small:
00FC                                     ; CODE XREF: 00FDj
00FC 0D          dec     c
00FD 20FD        jr      nz, Delay_small
00FF 3D          dec     a
0100 20F8        jr      nz, Delay
0102 C9          ret
0103
-----
; <voi d>
0103          ; <voi d>
0103          Bootstrap_loader: ; <voi d>
0103                                     ; CODE XREF: 01CBp
; <voi d>

```

```

HC88. LST
0103 01DF00      ld      bc, 0DFh ; 'B' ; <voi d>
0106 110000     ld      de, 0
0109
0109           Loop_5:
0109                                     ; CODE XREF: 010Fj
0112j
0109 DBDD      in      a, (ODDh) ; get 8272 status
010B 07        rlca
010C 3812     jr      c, Read_FDD_data; If RQM=1 then
Read_FDD_data
010E 1C      inc     e ; Timeout is 65536
loops
010F 20F8     jr      nz, Loop_5
0111 14      inc     d
0112 20F5     jr      nz, Loop_5
0114
0114           Timeout:
0114                                     ; CODE XREF: 0151j
0114 CD3002   call   Init8272
0117 210890   ld     hl, 9008h
011A 3640     ld     (hl), 40h ; '@' ; <voi d>; Variable
double from #9008 = #4040
011C 23      inc     hl
011D 3640     ld     (hl), 40h ; '@' ; <voi d>
011F C9      ret
0120
-----
; <voi d>
0120           ; <voi d>
0120           Read_FDD_data: ; <voi d>
0120                                     ; CODE XREF: 010Cj
; <voi d>
0120 E640     and     40h ; '@' ; <voi d>
0122 281C     jr      z, loc_140
0124 EDA2     ini
HL=destination, DE=counter
0126 E3      ex     (sp), hl
0127 E3      ex     (sp), hl
0128
0128           Wait_4_RQM:
0128                                     ; CODE XREF: 012Bj
0131j 0136j
0128 DBDD      in      a, (ODDh) ; get 8272 status
012A 07        rlca
012B 30FB     jr      nc, Wait_4_RQM ; if RQM=0 then
check again
012D EDA2     ini
012F E3      ex     (sp), hl
0130 E3      ex     (sp), hl
0131 20F5     jr      nz, Wait_4_RQM
0133 FD350D   dec     (iy+13)
0136 20F0     jr      nz, Wait_4_RQM
0138 3E1B     ld     a, 1Bh
013A D3E7     out    (0E7h), a ; SET TC=1 DS0=1
DS1=0 MOTOR_ON=1      RES8272=1
013C E6FE     and    0FEh ; 'p' ; <voi d>; toggle TC
013E D3E7     out    (0E7h), a ; SET TC=0 DS0=1
DS1=0 MOTOR_ON=1      RES8272=1
0140
0140           loc_140:
0140                                     ; CODE XREF: 00E7p
0122j 0205p
0140 210890   ld     hl, 9008h
0143 110000   ld     de, 0
0146
0146           NotReady:
0146                                     ; CODE XREF: 014Cj
014Fj 015Aj

```

```

                                HC88. LST
0146 DBDD                in      a, (ODDh)      ; 8272 GetStatus
0148 17                  rla
0149 3808                jr      c, READY_8272 ; If RQM=1 then
jump to 8272_READY
014B 1C                  inc      e      ; Timeout is 65536
loops
014C 20F8                jr      nz, NotReady
014E 14                  inc      d
014F 20F5                jr      nz, NotReady
0151 18C1                jr      Timeout ; Timeout waiting
for 8272_READY
0153

```

```

-----
0153
0153                READY_8272:
0153                                ; CODE XREF: 0149j
0153 17                rla                                ; if DIO=0 then
return
0154 D0                ret      nc
0155 CDB900            call     Read_8272_dataregister
0158 77                ld      (hl), a
0159 23                inc     hl
015A 18EA            jr      NotReady
015C

```

```

-----
015C
015C                loc_15C:
015C                                ; CODE XREF: 004Dp
005Cp 0077p 0089p
015C                                ; 00A1p
015C C5                push    bc      ; always argument
in BC=#9010
015D FDE1            pop     iy
015F FD361003        ld      (iy+16), 3 ; (#9020)=#03
0163 FD361104        ld      (iy+17), 4 ; (#9021)=#04
0167 AF              xor     a      ; (#9000)=#00
0168 320090          ld      (command_parameter_2nd), a
016B 47              ld      b, a
016C FD7E04          ld      a, (iy+4) ; A=(#9014)
016F FE10            cp      10h
0171 3804            jr      c, Next_1
0173 0604            ld      b, 4
0175 D610            sub     10h
0177

```

```

0177                Next_1:
0177                                ; CODE XREF: 0171j
0177 C5                push    bc
0178 F5                push    af      ; save A
0179 FD7E02          ld      a, (iy+2) ; A=(#9012)
017C 3D              dec     a
017D 212802          ld      hl, 228h ; <void>; load 1st
parameter set
0180 114D02          ld      de, 24Dh ; <void>
0183 2806            jr      z, Skip_1 ; if end then skip
0185 212C02          ld      hl, 22Ch ; <void>; load 2nd
parameter set
0188 115D02          ld      de, 25Dh ; <void>
018B

```

```

018B                Skip_1:
018B                                ; CODE XREF: 0183j
018B F1                pop     af      ; restore A
018C 83                add     a, e
018D 5F              ld      e, a
018E 1A              ld      a, (de)
018F 320390          ld      (command_parameter_5th), a
0192 110490          ld      de, 9004h
0195 010400          ld      bc, 4
0198 EDB0            ldi r

```

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```

019A C1          pop      bc
019B 3A0090     ld       a, (command_parameter_2nd)
019E B0         or       b
019F 320090     ld       (command_parameter_2nd), a
01A2 78         ld       a, b
01A3 0F         rrca
01A4 0F         rrca
01A5 320290     ld       (command_parameter_4th), a
01A8 FD7E03     ld       a, (iy+3)
01AB CDD300     call    loc_D3
01AE FD7E0B     ld       a, (iy+11)
01B1 FE08       cp       8
01B3 284A       jr      z, loc_1FF
01B5 FE10       cp       10h
01B7 285B       jr      z, loc_214
01B9
01B9          loc_1B9:
01B9                                     ; CODE XREF: 01D8j
01F5j
01B9 014609     ld       bc, 946h
01BC CDC000     call    Set_8272_command
01BF FD6E05     .db 0FDh, 6Eh, 5 ; <BAD> ld       yl, (iy+5)
01C2 FD6606     .db 0FDh, 66h, 6 ; <BAD> ld       yh, (iy+6)
01C5 FD7E02     ld       a, (iy+2)
01C8 FD770D     ld       (iy+13), a
01CB CD0301     call    Bootstrap_loader
01CE 3A0890     ld       a, (byte_9008)
01D1 E6C0       and     0C0h ; 'Ä' ; <voi d>
01D3 2822       jr      z, loc_1F7
01D5 FD3511     dec     (iy+17)
01D8 20DF       jr      nz, loc_1B9
01DA FD3510     dec     (iy+16)
01DD 3A0990     ld       a, (byte_9009)
01E0 2818       jr      z, loc_1F8+2
01E2 FD361104   ld       (iy+17), 4
01E6 010702     ld       bc, 207h ; <voi d>
01E9 CDC000     call    Set_8272_command
01EC CDE100     call    loc_E1
01EF FD7E03     ld       a, (iy+3)
01F2 CDD300     call    loc_D3
01F5 18C2       jr      loc_1B9
01F7
-----
01F7          loc_1F7:
01F7                                     ; CODE XREF: 01D3j
0212j 0226j
01F7 AF        xor      a
01F8
01F8          loc_1F8:
01F8                                     ; CODE XREF: 01E0j
0210j
01F8 01C137     ld       bc, 37C1h
01FB FD770C     ld       (iy+12), a
01FE C9        ret
01FF
-----
; <voi d>
01FF          ; <voi d>
01FF          loc_1FF: ; <voi d>
01FF                                     ; CODE XREF: 01B3j
; <voi d>
01FF 014A02     ld       bc, 24Ah ; <voi d>
0202 CDC000     call    Set_8272_command
0205 CD4001     call    loc_140
0208 3A0890     ld       a, (byte_9008)
020B E6C0       and     0C0h ; 'Ä' ; <voi d>
020D 3A0990     ld       a, (byte_9009)

```



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```
0210 20E8          jr      nz, loc_1F8+2
0212 18E3          jr      loc_1F7
0214
```

```
-----
; <voi d>
0214          ; <voi d>
0214          loc_214: ; <voi d>
0214          ; CODE XREF: 01B7j
; <voi d>
0214 010702      ld      bc, 207h ; <voi d>
0217 CDC000      call   Set_8272_command
021A CDE100      call   loc_E1
021D 010702      ld      bc, 207h ; <voi d>
0220 CDC000      call   Set_8272_command
0223 CDE100      call   loc_E1
0226 18CF        jr      loc_1F7
0226
```

```
-----
0228 01          .db    1 ;          ; 1st parametre
set (pointed by #017D)
0229 10          .db   10h ;
022A 0E          .db   0Eh ;
022B FF          .db  0FFh ; y
022C 02          .db    2 ;          ; 2nd parameter
set (pointed by #0185)
022D 09          .db    9 ;
022E 1B          .db   1Bh ;
022F FF          .db  0FFh ; y
0230
```

```
-----
0230
0230          Ini t8272:
0230          ; CODE XREF: 003Cp
0114p
0230 3E00      ld      a, 0
0232 D3E7      out    (0E7h), a ; Reset 8272
external control register
0234 3E1A      ld      a, 1Ah
0236 D3E7      out    (0E7h), a ; clear N555 and
set DSO
0238 010303   ld      bc, 303h ; <voi d>; "speci fy"
command
023B 214B02   ld      hl, 24Bh ; <voi d>; SRT=#0E;
HUT=#0F; HLT=0; HD=1
023E CDC300   call   GetSta_SetCommand
0241 0664      ld      b, 64h ; 'd' ; <voi d>
0243
0243          Bi gDel ay:
0243          ; CODE XREF: 0248j
0243 3E0A      ld      a, 0Ah
0245 CDFA00   call   Del ay
0248 10F9      djnz  Bi gDel ay
024A C9        ret
024A
```

```
-----
024B EF          .db  0EFh ; i
024C 01          .db    1 ;
024D 01          .db    1 ;
024E 03          .db    3 ;
024F 05          .db    5 ;
0250 07          .db    7 ;
0251 09          .db    9 ;
0252 0B          .db   0Bh ;
0253 0D          .db   0Dh ;
0254 0F          .db   0Fh ;
0255 02          .db    2 ;
0256 04          .db    4 ;
0257 06          .db    6 ;
```

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```

0258 08      .db      8 ;
0259 0A      .db     0Ah ;
025A 0C      .db     0Ch ;
025B 0E      .db     0Eh ;
025C 10      .db     10h ;
025D 01      .db      1 ;
025E 03      .db      3 ;
025F 05      .db      5 ;
0260 07      .db      7 ;
0261 09      .db      9 ;
0262 02      .db      2 ;
0263 04      .db      4 ;
0264 06      .db      6 ;
0265 08      .db      8 ;
0266 01      .db      1 ;
0267 00      .db      0 ;
0268 00      .db      0 ;
0269 00      .db      0 ;
026A 10      .db     10h ;
026B 00      .db      0 ;
026C 80      .db     80h ; €
026D 00      .db      0 ;
026E 00      .db      0 ;
026F 00      .db      0 ;
0270 00      .db      0 ;
0271 10      .db     10h ;
0272 00      .db      0 ;
0273 00      .db      0 ;
0274 00      .db      0 ;
0275 00      .db      0 ;
0276 00      .db      0 ;
0277 00      .db      0 ;
0278 00      .db      0 ;
0279 00      .db      0 ;
027A 00      .db      0 ;
027B 00      .db      0 ;
027C 00      .db      0 ;
027D 00      .db      0 ;
027E 00      .db      0 ;
027F 00      .db      0 ;

```

; copied to #9010

```

-----
8000 00      unk_8000:      .block 1; uni ni ted data
; before paging the boot code is loaded here
-----

```

```

9000 00      command_parameter_2nd: .block 1
9001 00      command_parameter_3rd: .block 1
9002 00      command_parameter_4th: .block 1
9003 00      command_parameter_5th: .block 1
9004 00      .block 1; uni ni ted data
9005 00      .block 1; uni ni ted data
9006 00      .block 1; uni ni ted data
9007 00      .block 1; uni ni ted data
9008 00      byte_9008:      .block 1
9009 00      byte_9009:      .block 1
900A 00      .block 1; uni ni ted data
900B 00      .block 1; uni ni ted data
900C 00      .block 1; uni ni ted data
900D 00      .block 1; uni ni ted data
900E 00      byte_900E:      .block 1
900F 00      .block 1; uni ni ted data
9010 00      .block 1; uni ni ted data
9011 00      .block 1; uni ni ted data
9012 00      byte_9012:      .block 1
9013 00      .block 1
9014 00      byte_9014:      .block 1
9015 00      .block 1; uni ni ted data
9016 00      .block 1; uni ni ted data
9017 00      .block 1; uni ni ted data

```

```
9018 00
9019 00
901A 00
901B 00
901C 00
901D 00
```

byte\_901B:

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```
. block 1; uni ni ted data
. block 1; uni ni ted data
. block 1; uni ni ted data
. block 1
. block 1; uni ni ted data
. block 1; uni ni ted data
```