Pir	A-rij	Pin	C-rij
4	Ø VOLT	1	Ø VOLT
2	Ø VOLT	2	Ø VOLT
3	DIV1 #	3	DIV2 #
4	DIV3 #	4.	DIV4 #
5	DATA Ø	5	DATA 1
6	DATA 2	6	DATA 3
7	DATA 4	7	DATA 5
8	DATA 6	8	DATA 7
9	ADRES 0	9	ADRES 1
10	ADRES 2	10	ADRES 3
11	ADRES 4	11	ADRES 5
12	ADRES 6	12	ADRES 7
13	ADRES 8	13	ADRES 9
14	ADRES 10	14	ADRES 11
15	ADRES 12	15	ADRES 13
16	ADRES 14	16	ADRES 15
17	ADRES 16	17	ADRES 17
18	ADRES 18	18	ADRES 19
19	0 VOLT	19	Ø VOLT
20	E CLOCK	20	R/W
24	/RESET	21	ZVMA
22	BS	22	BA
23	Q CLOCK	23	DIV5 # (SELECT)
24	R/W DMA(IN)	24	MRDY
25	/HALT	25	/DMA-/BREQ
26	/FIRQ	26	/IRQ
27	IMN	27	/VMA(DMA) (IN)
28	DIV6 #	58	DIV7 #
29	+12 VOLT	29	+12 VOLT
30	-12 VOLT	30	-12 VOLT
31	+5 VOLT	31	+5 VOLT
32	+5 VOLT	32	+5 VOLT

```
DIV5 IS BANKSELECT VOOR MEMORY BOARDS
```

DIV6 IS BUS ENABLE INPUT VOOR DMA

DIV7 IS BUS ENABLE OUTPUT VOOR DMA

Pin definities van IO backptane 64 polig

Pin	A-rij		Fin	C-rij
1	Ø VOLT		1	0 VOLT
2	Ø VOLT		2	Ø VOLT
3	>56K	#:	3	100HZ #
4	/BANKSEL	4:	4	/XFFXX #
5	DATA Ø		5	DATA 1
6	DATA 2		ద	DATA 3
ッ	DATA 4		フ	DATA 5
8	DATA 6		8	DATA 7
9	ADRES 0		9	ADRES 1
10	ADRES 2		10	ADRES 3
11	ADRES 4		11	ADRES 5
12	ADRES 6		12	ADRES 7
13	ADRES 8		13	ADRES 9
14	ADRES 10		14	BUF'D E CLOCK
15	BUF'D R/W		15	BUF'D /RESET
16	ADRES 11		16	ADRES 12
17	0 VOLT		17	Ø VOLT
18	E CLOCK		18	R/W
19	ZRESET		19	/FEØXX
20	DISDEC		20	/IRQ
21	/FF0XX	#	24	/FE080 #
22	/FE070	4:	22	/FE050 #
23	/FE040	#	23	/FE030 #
24	/FE020	#	24	/FE010 #
25	EAUD 3		25	BAUD 2
26	BAUD 1		26	BAUD 0
27	BUF'D ADR	3	27	BUF'D ADR 2
28	BUF'D ADR	1	28	BUF'D ADR 0
29	+12 VOLT		29	+12 VOLT
30	-12 VOLT		30	-12 VOLT
31	+5 VOLT		31	+5 VOLT
32	+5 VOLT		32	+5 VOLT

Pin definities van IO backplane 31 polig

```
Fin
 1
       Ø VOLT
       Ø VOLT
 2
 3
       ANALOGE Ø VOLT
 4
       DATA 0
 ij
       DATA 1
 6
       DATA 2
 7
       DATA 3
 8
       DATA 4
 9
       DATA 5
10
       DATA 6
11
       DATA 7
12
       CARD SELECT
13
       E CLOCK (BUF'D)
14
       R/W (BUF'D)
15
       /RESET (BUF'D)
16
       /IRQ
17
       DIVI
18
       DIV2
19
       BAUD 3
20
       BAUD 2
21
       BAUD 1
22
       BAUD 0
23
       ADRES 3 (BUF'D)
24
       ADRES 2 (BUF'D)
25
       ADRES 1 (BUF'D)
26
       ADRES 0 (BUF'D)
27
       DIV3
28
       +12 VOLT
       -12 VOLT
29
30
       +5 VOLT
31
       +5 VOLT
```

/RESET BETEKENT 'NOT RESET' = AKTIEF LAAG

DUIDT EEN NIET DOORLOPENDE BUSVERBINDING AAN

AANSLUITINGEN VOOR HET ECSI 6809 SYSTEEM

21 Nov 1982 REV 1.0

Lijst van alle apart aan te brengen draden.

Attereerst moeten atte datalijnen tussen de beide backplanes worden doorverbonden (zie bus specs). Vervolgens atte overeenkomende adressen dus A0 t/m A10, A11 en A12. Ook 'E', R/W/RESET, /IRQ en de voedingsspannigen moeten worden gedaan.

De volgende verbindingen dienen om wat extra controle signalen tussen de diverse printen door te geven.

processor kaart:

```
pin c-4 output /XFFXX near io kaart
pin a-4 output 16 Mhz clock voor rem- en video boards
pin c-23 input voor /reset signaal van reset schak.
```

64k dyn. ram kaart:

```
pin a-4 input 16 Mhz ctock van processor kaart
pin c-23 input bank setect van decoder
```

io-control kmart:

```
E-m mig
           input >56K signaat van bank decoder
pin c-3
           input 100hz blokgolf van voedings eenheid
pin a-4
           input setect /FXXXX van bank decoder
pin c-4
           input /XFFXX van processor kaart
pin a-20
           output disdec naar bank decoder
pin a-21
           output /FF0XX voor dma floppy
pin c-21
           output /FE080 card select (parallel printer)
          output /FE070 card setect (vrij)
pin a-22
pin c-22
           output /FE050 card setect (vrij)
          output /FE040 card select (vrij)
pin a-23
pin c-23
          output /FE030 card select (vrij)
          output /FE020 card select (vrij)
pin a-24
pin c-24
          output /FE010 card select (floppy kaart)
```

floppy keart:

```
pin 17 verbinden met a-23 van systeem backplane (Q clock)
pin 12 card setect input van io-control card
```

bank decoder:

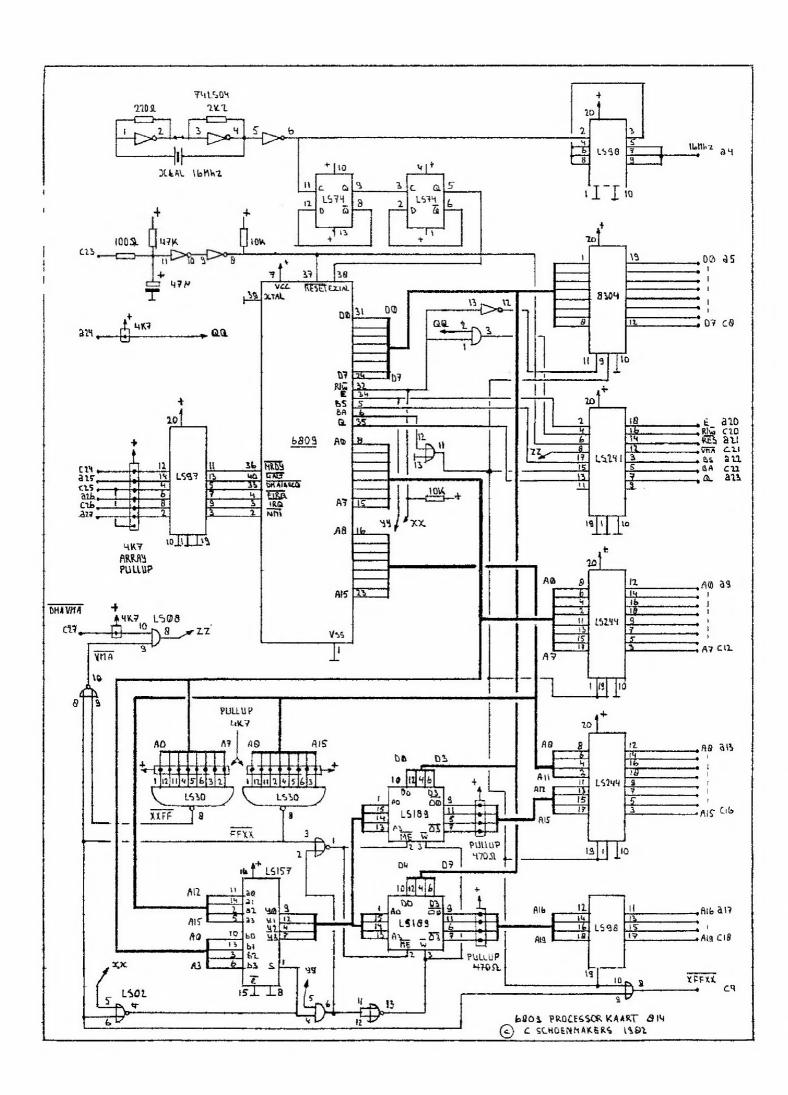
```
-74154- (middetste ic)
pin 1
           output bank 0XXXX (naar ram kaart)
pin 2
           output bank 1XXXX
pin 3
           output bank 2XXXX
pin 4
           output bank 3XXXX
pin 5
           output bank 4XXXX
pin 6
           output bank 5XXXX
pin Z
           output bank 6XXXX
pin 8
           output bank 7XXXX
pin 9
           output bank 8XXXX
pin 10
           output bank 9XXXX
pin 11
           output bank AXXXX
pin 13
           output bank BXXXX
pin 14
           output bank CXXXX
pin 45
           output bank DXXXX
pin 16
           output bank EXXXX
pin 17
           output bank FXXXX (naar IO kaart)
pin 18
           imput /vma
                                 (bustijn)
pin 19
           input disdec van io control kaart
pin 20
           input adres 19
                                 (bustijn)
pin 21
           input adres 18
                                (bustijn)
pin 22
           input adres 17
                                 (bustijn)
pin 23
           input adres 16
                                 (bustijn)
-741s21-
          (onderste ic)
pin 12
           input adres 15
                                 (bustiin)
pin 10
           input adres 14
                                 (bustijn)
pin 9
           input adres 13
                                 (bustijn)
pin 8
           output >56K
                           naar io control kaart
-741s74-
           (bovenste ic)
pin 11
           input clock 16 Mhz
                                 van processor kaart
pin 9
           output clock 8 Mhz
                                  voor diverse doeleinden
```

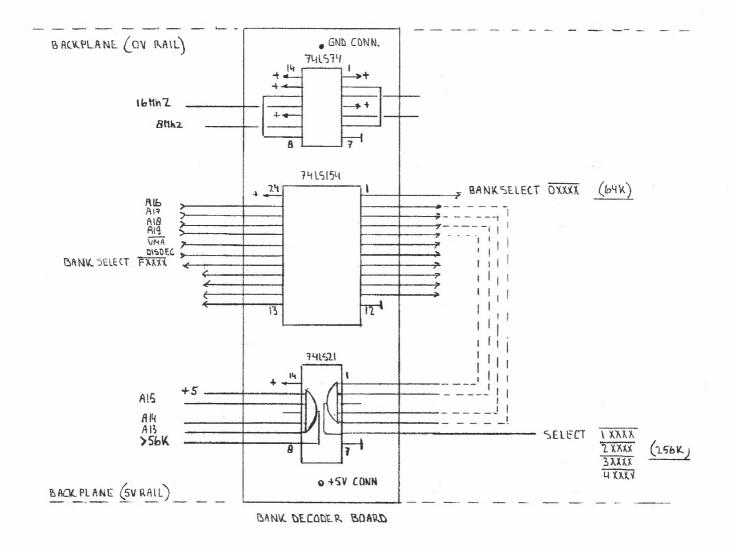
/vma betekent 'not vma' = aktief Lmag

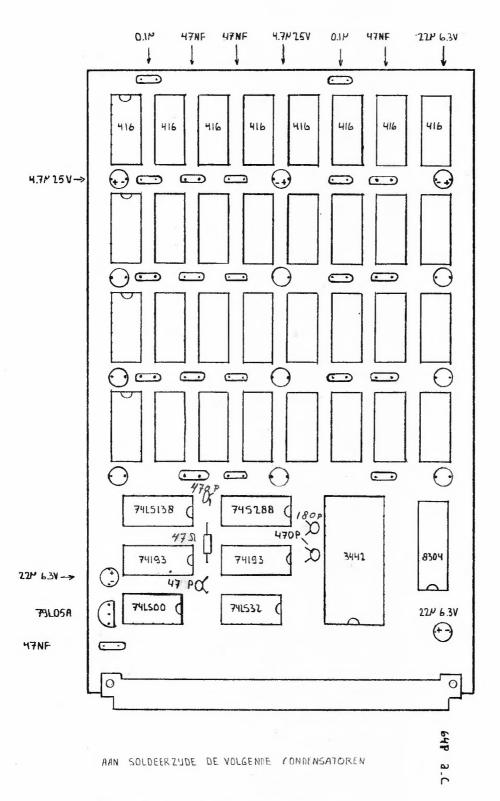
aanstuitingen voor het ECSI 6809 systeem 21 nov 1982 – rev 1.0

ALLEEN ICVOETEN VOOR

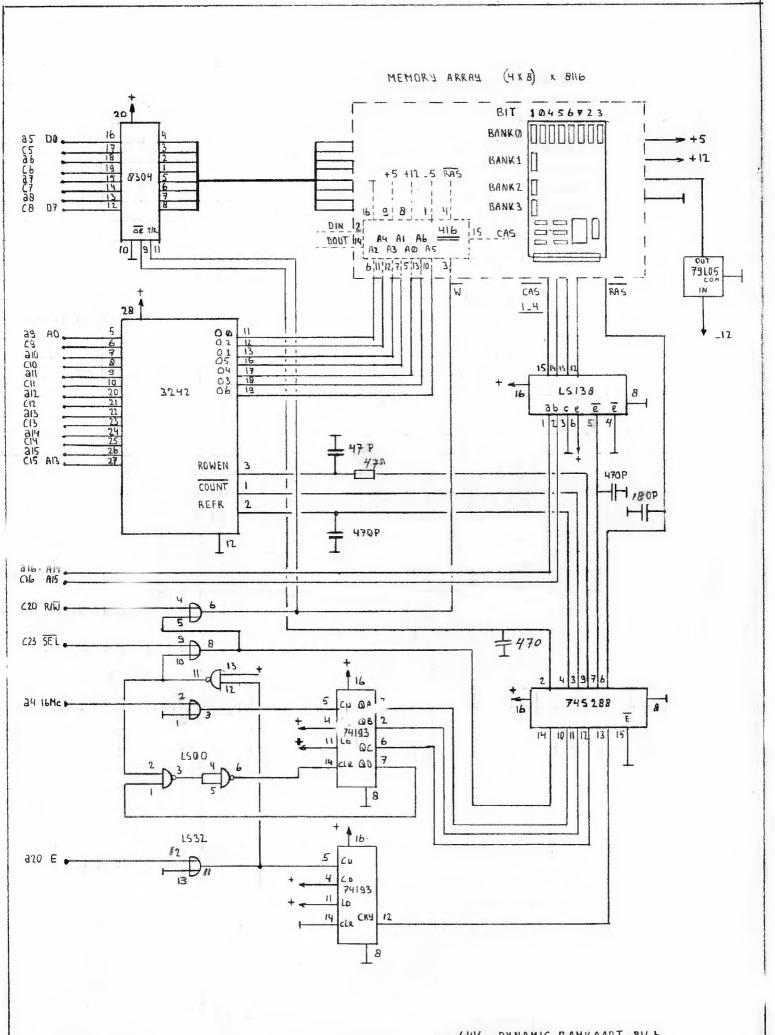
ARRAY 7 WEEKST 1 COMMON





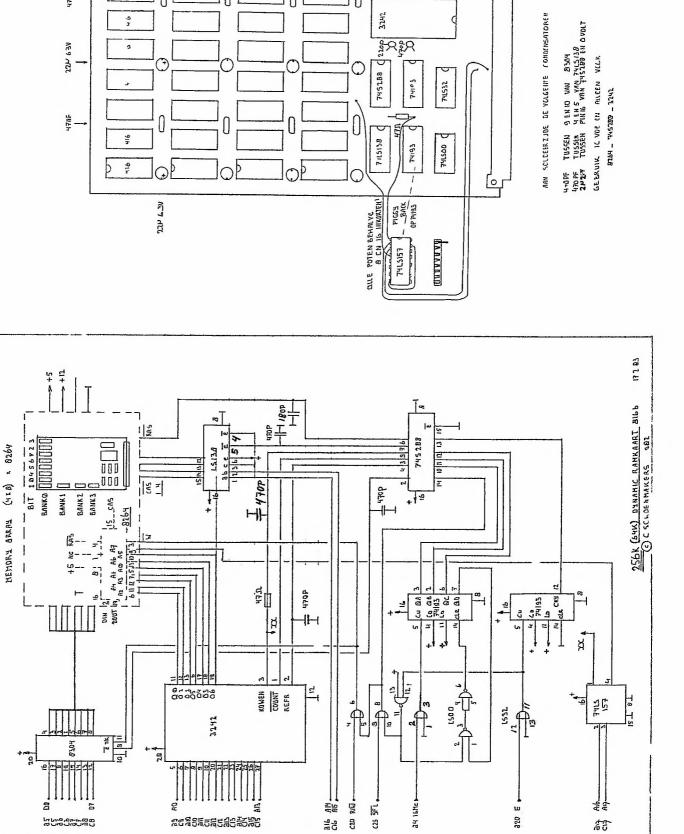


470PF TUSSEN 4 EN 5 VAN 74LS138 470PF TUSSEN 9 EN 10 VAN 8204 GEBRÜIK IC VOCTEN ALLEEN VOOK 4116 - 745280 - 3442



47NF

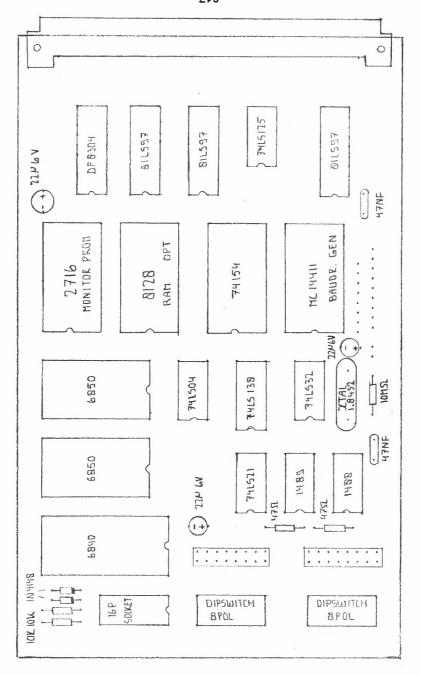
. 2



120 6 3V

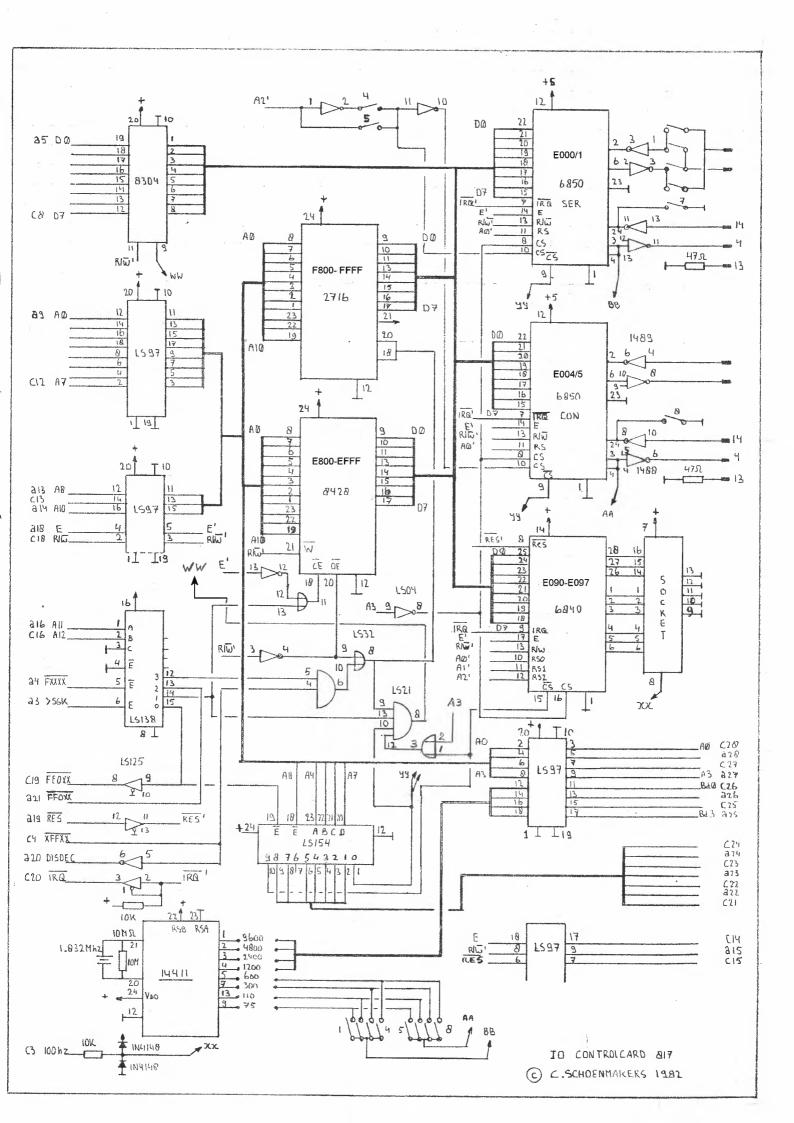
9 8304

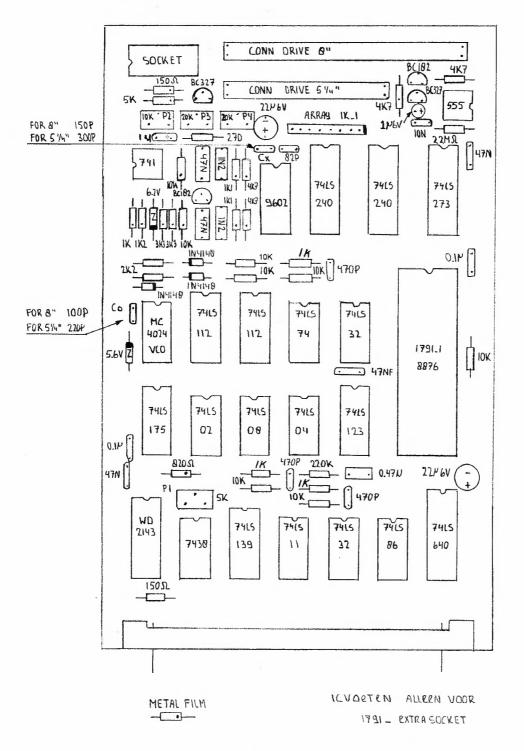
64P a C



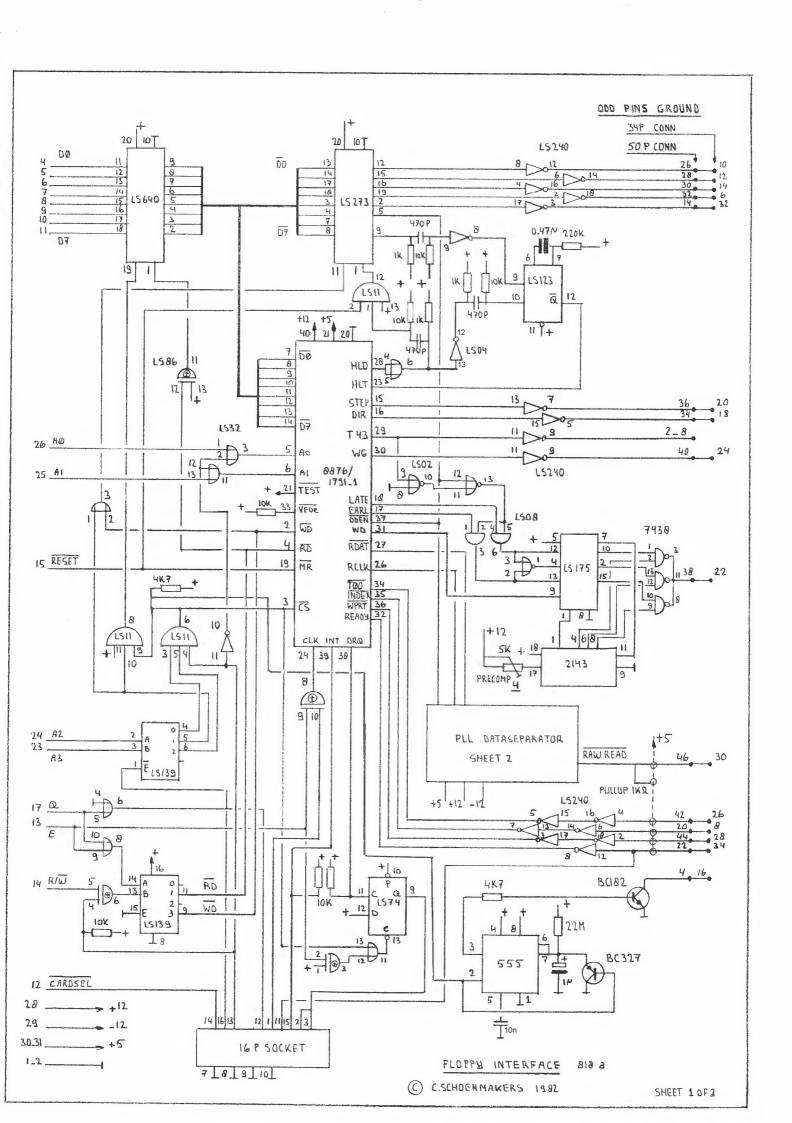
COMPONENTEN LAYOUT & 10 CONTROLCARD
REV 0.1 16_3_82_ CS

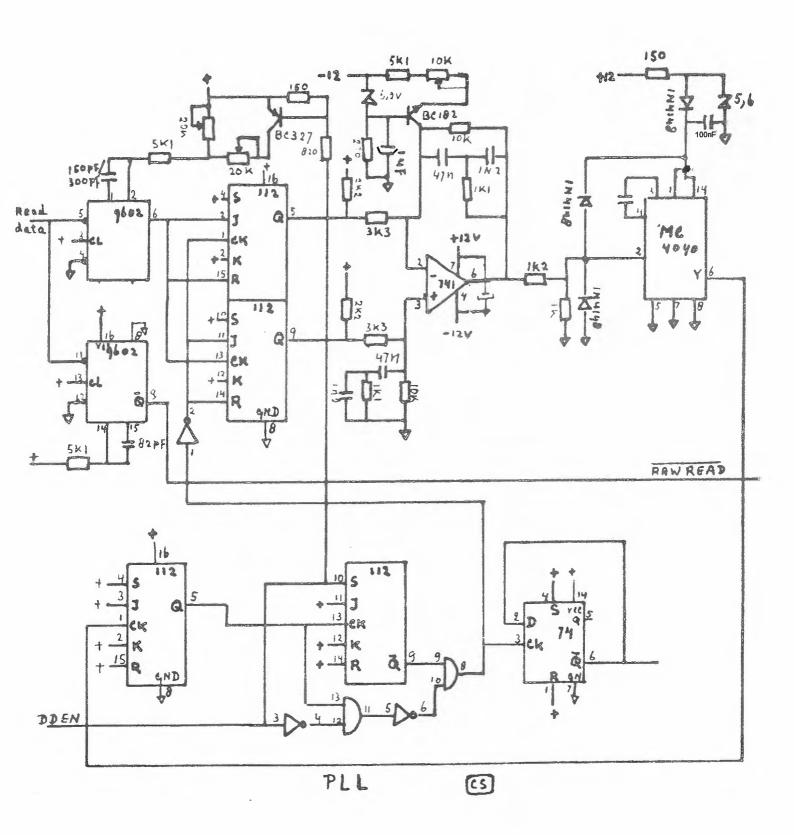
ICVOETEN VOOR 14411_8128_2716_6850_ 6840_EXTRASOCKET

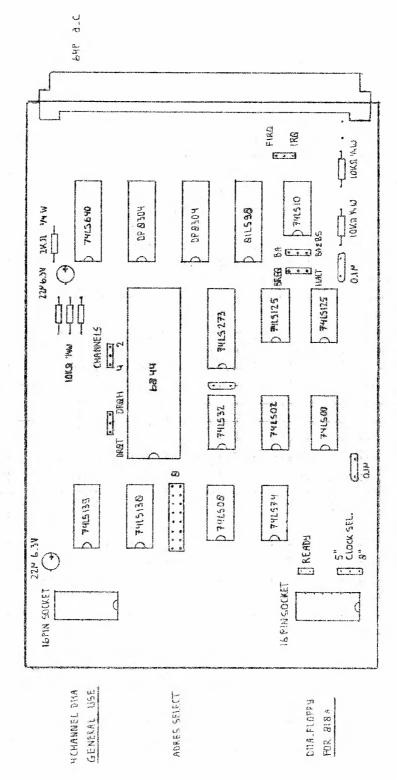




818a

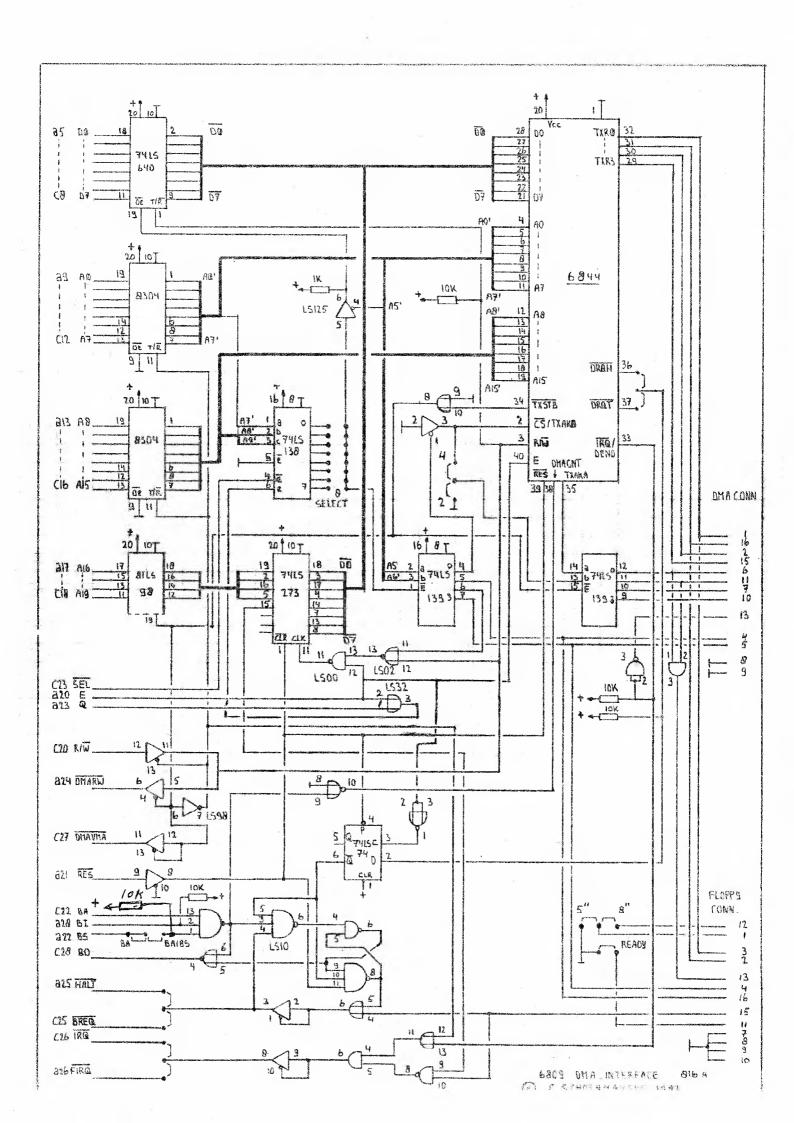


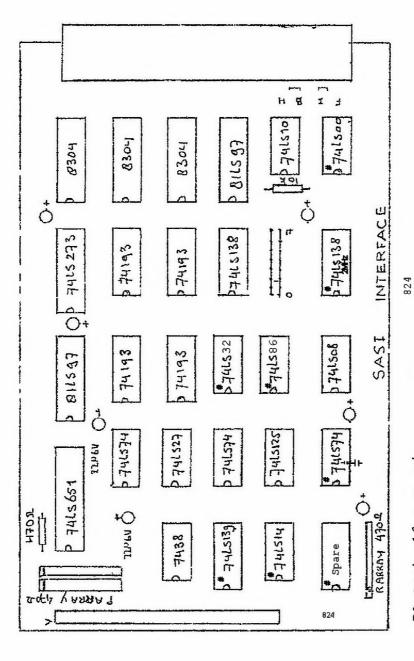




IC VOETEN VOOR 6844 EN BEIDE EXTENSION SOCKETS

NB. 74L5440 KAN VERVANGEN NORBEN DOOR 74L5245 INDIEN
GEBRUIK ALS GENERAL USE DMA.
VOOR FIOPPY JUMPERS: SELECTI, UMEH, 2CHANH., BREQ, BA, IRQ..
GORNOG: 5" OF 8" EN EVENTOEEL READY





TANTARL 22 LLF 16V

```
(Card error, 824 only) Chips marker #
Place 74LS08 at Spare location.
Wire pin-14 to Vcc (hole-16)
Component side:
 Cut trace between pin-9 74LS27 and pin-9 74LS74 next LS651.
 Cut trace between 74LS74 pin-4 and Vcc.
 Cut trace between 74LS74 pin-4 and pin-10.
 Cut trace at pin-1 74LS139.
Solder side:
 Cut trace at pin-10 from 74LS74 next 74LS651.
 Cut trace at pin-11 from 74LS74 next 74LS651.
 Cut trace between pin-15 74LS138 and pin-12 74LS00.
 Cut trace between pin-11 74LS138 and pin-13 74LS00.
 Cut trace at pin-6 74LS139.
 Cut trace at pin-7 74LS139.
 Wire pin-10 74LS74
                     to Vcc.
 Wire pin-13 74LS139 to Gnd.
 Wire pin-1
             to pin-11 74LS139.
 Wire pin-9 to pin-10 74LS27.
 Wire pin-12 74LS00
                      to pin-6
                                74LS08.
 Wire pin-13 74LS00
                      to pin-11
                               74LS32.
 Wire pin-11 74LS138 to pin-5
                                74LS32.
 Wire pin-15 74LS138 to pin-12 74LS32.
             74LS32
 Wire pin-4
                      to pin-3
                                74LS14.
                      to pin-5
             74LS32
                                74LS08.
 Wire pin-6
                      to pin-4 74LS14.
 Wire pin-13 74LS32
                      to pin-5
 Wire pin-4
                                74LS74 the middle one.
             74LS08
             74LS08
                      to pin-21 74LS651.
 Wire pin-8
 Wire pin-9 74LS08
                      to pin-7 74LS139.
                      to pin-5
 Wire pin-10 74LS08
                                74LS139.
 Wire pin-12 74LS08
                                74LS139.
                      to pin-6
                      to pin-4 74LS139.
 Wire pin-13 74LS08
                      to pin-11 74LS14.
 Wire pin-11 74LS08
                      to pin-50 50pin connector.
 Wire pin-3
             74LS14
 Wire pin-14 74LS139 to pin-42 50pin connector.
```

Wire pin-15 74LS139 to pin-48 50pin connector.

