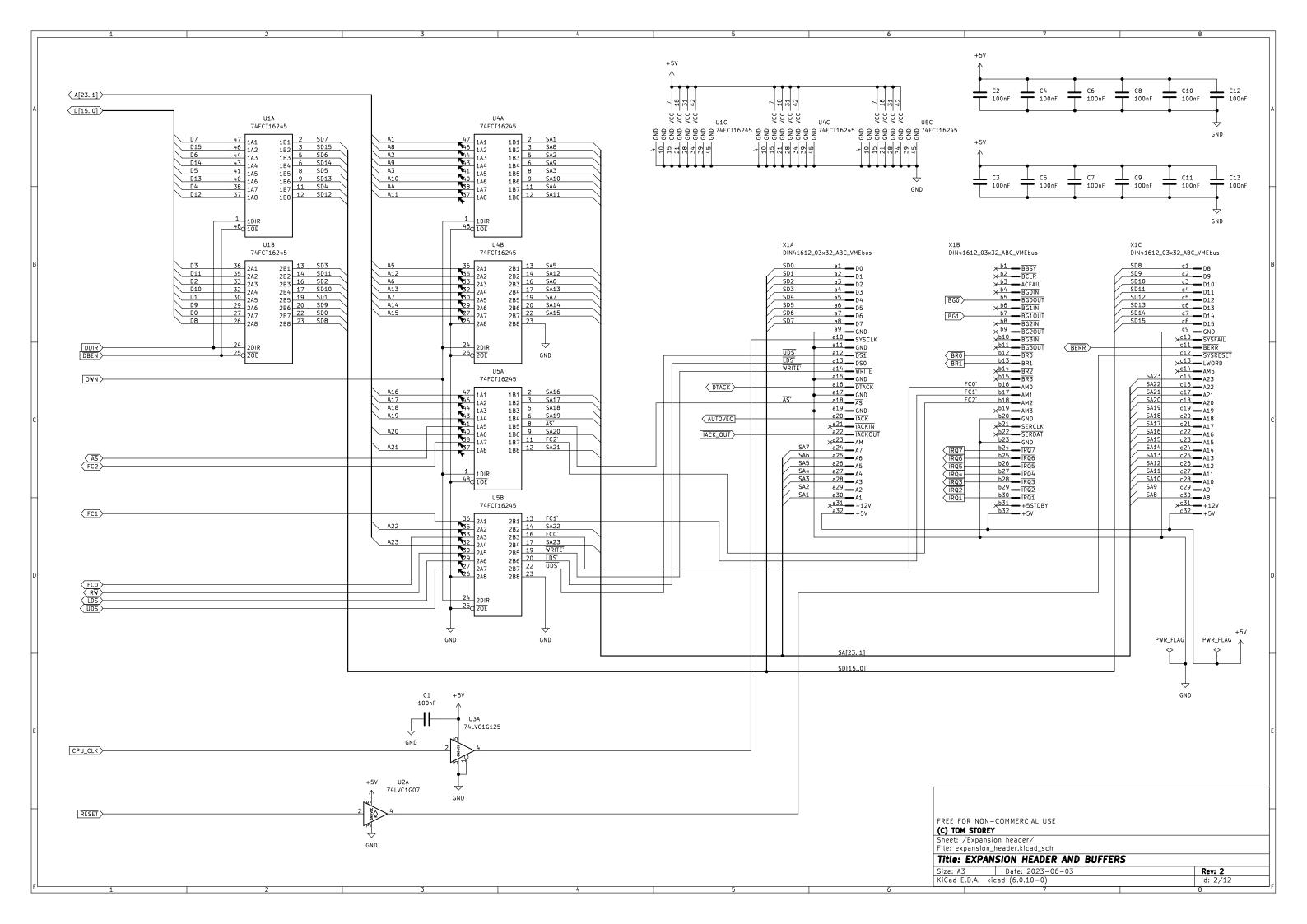
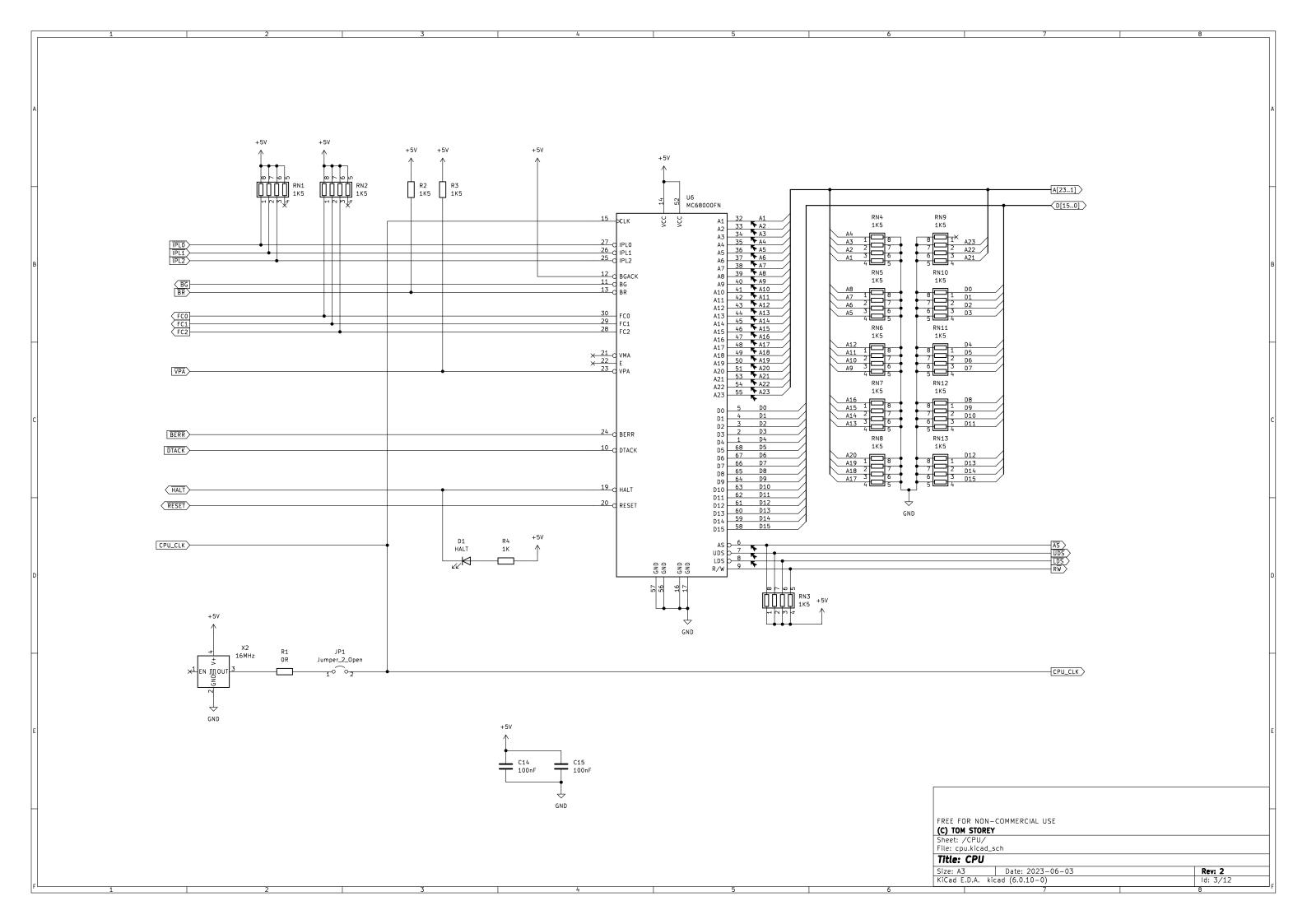
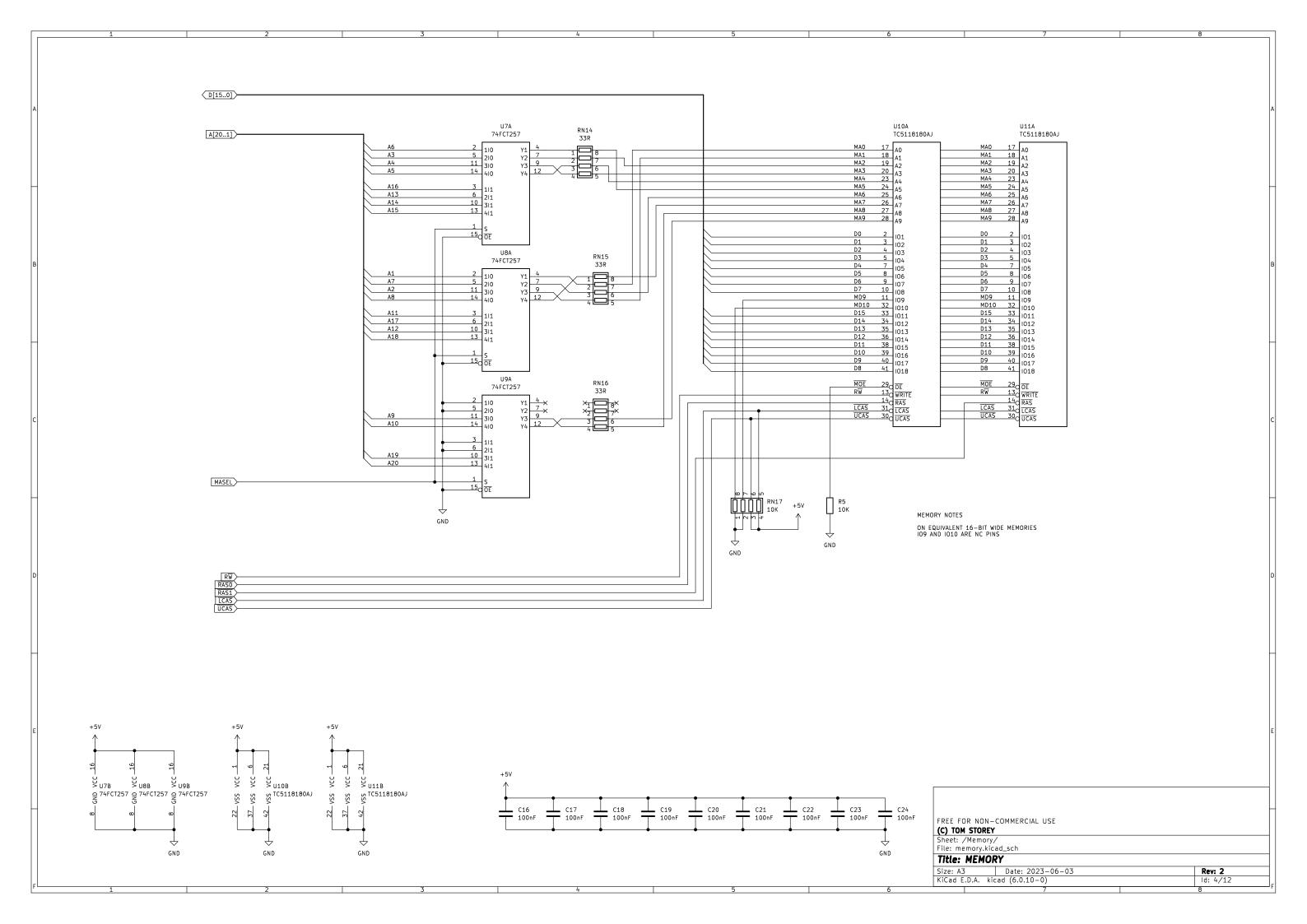
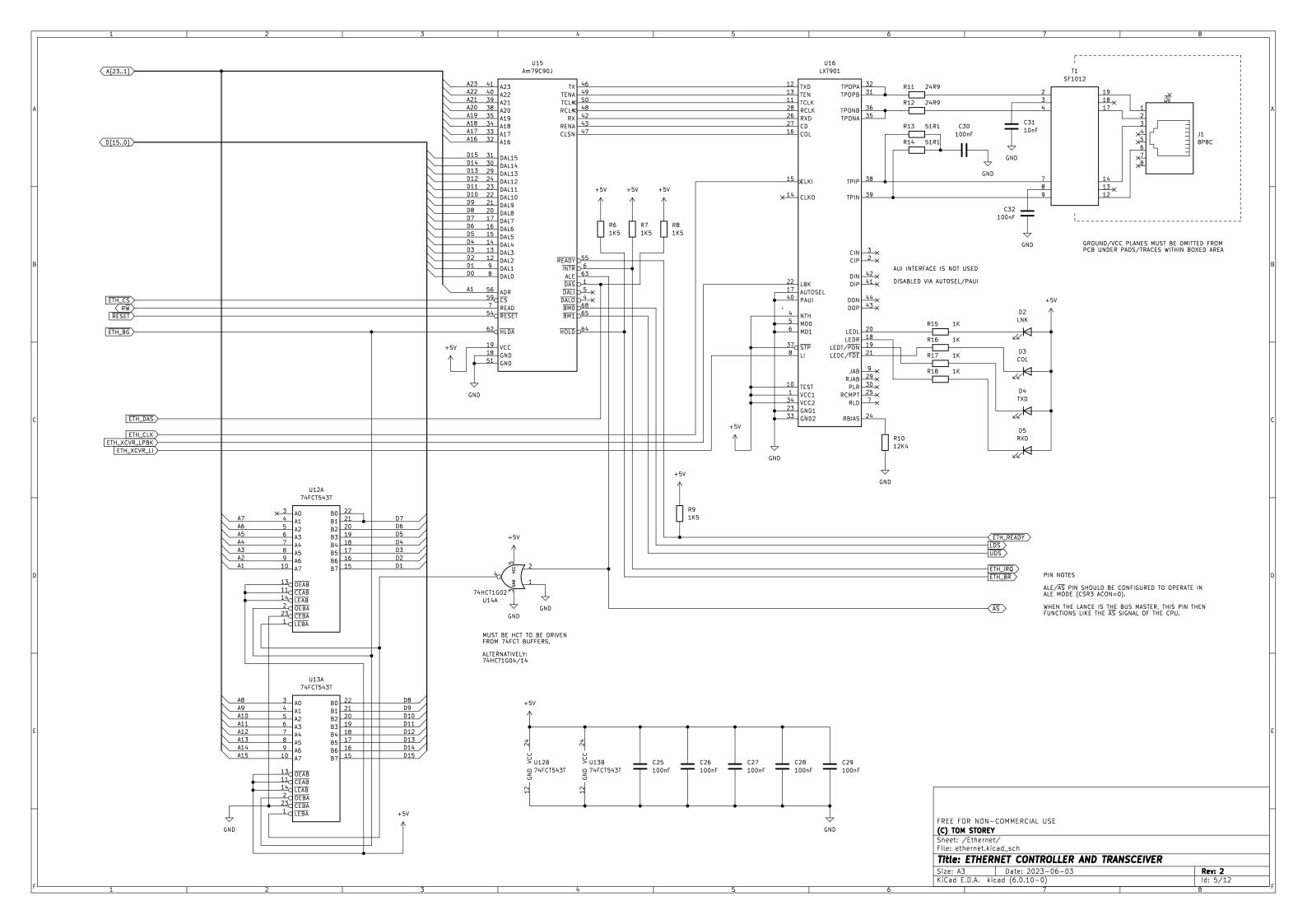
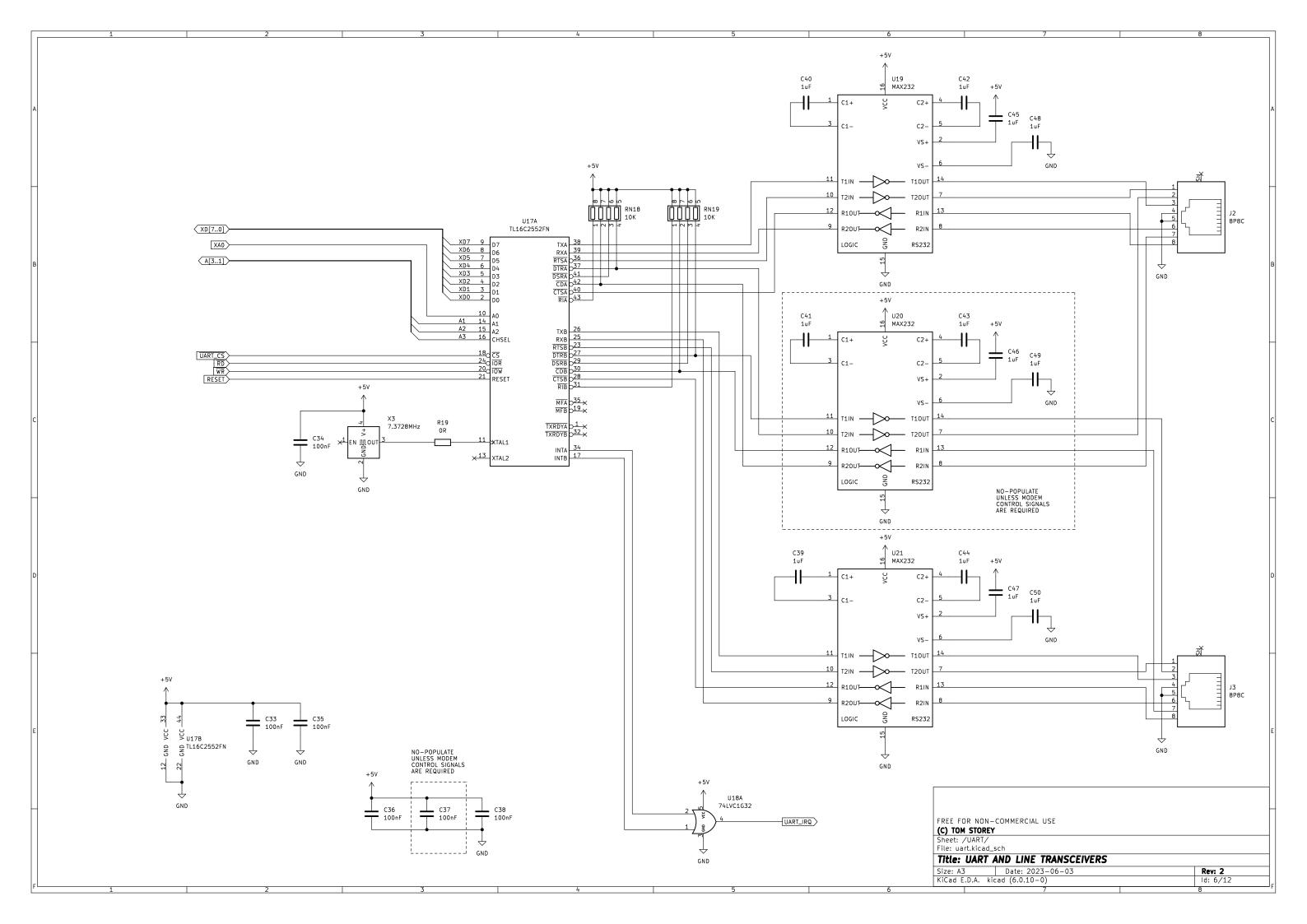
Expansion header Memory Ethernet UART Timer & RTC File: expansion\_header.kicad\_sch File: cpu.kicad\_sch File: memory.kicad\_sch File: ethernet.kicad\_sch File: uart.kicad\_sch File: timer\_rtc.kicad\_sch CPLD Onboard 10 X busses File: reset.kicad\_sch File: cpld.kicad\_sch File: onboard\_io.kicad\_sch File: xbusses.kicad\_sch File: rom.kicad\_sch FREE FOR NON-COMMERCIAL USE
(C) TOM STOREY
Sheet: /
File: COMET68k.kicad\_sch 

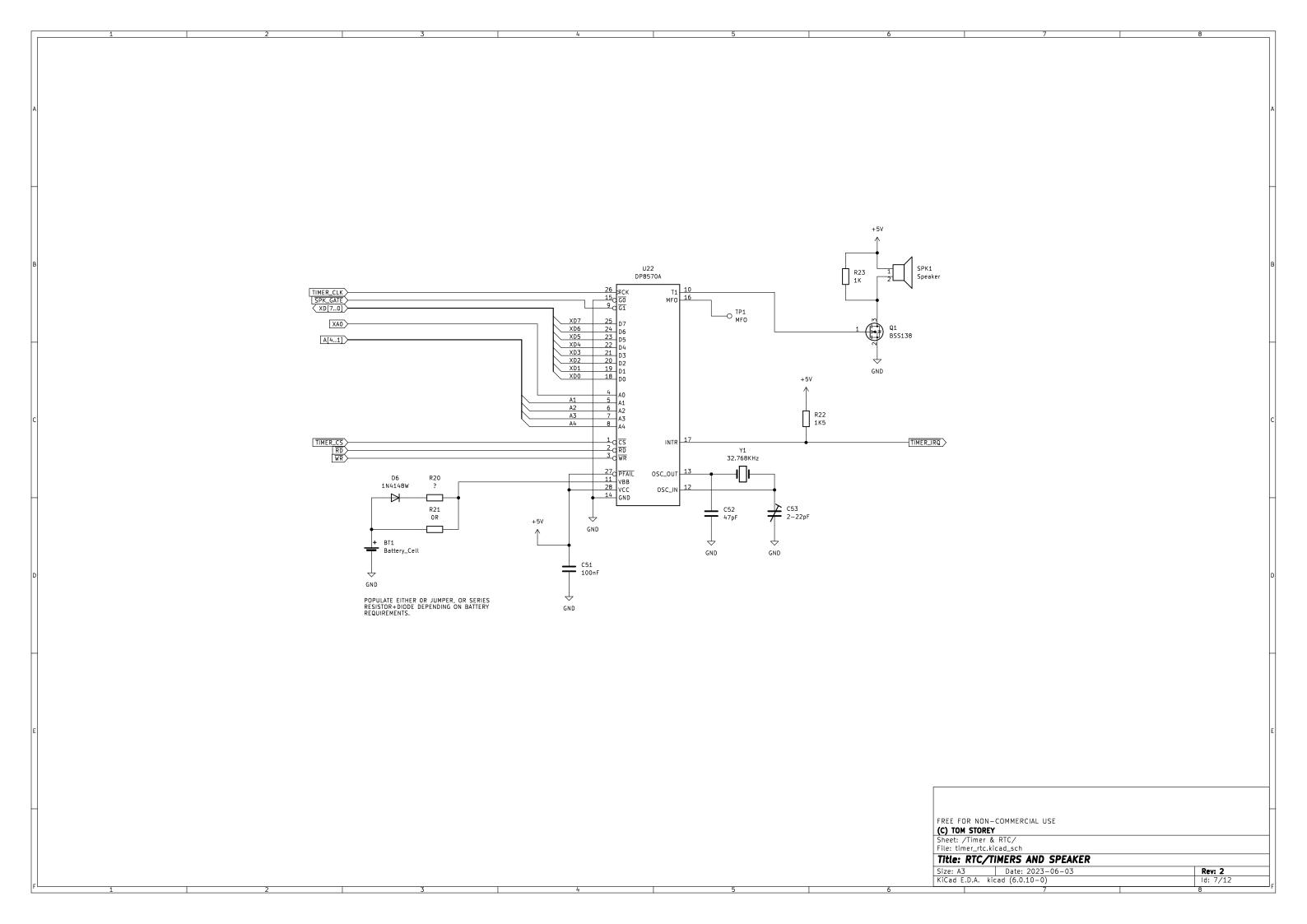


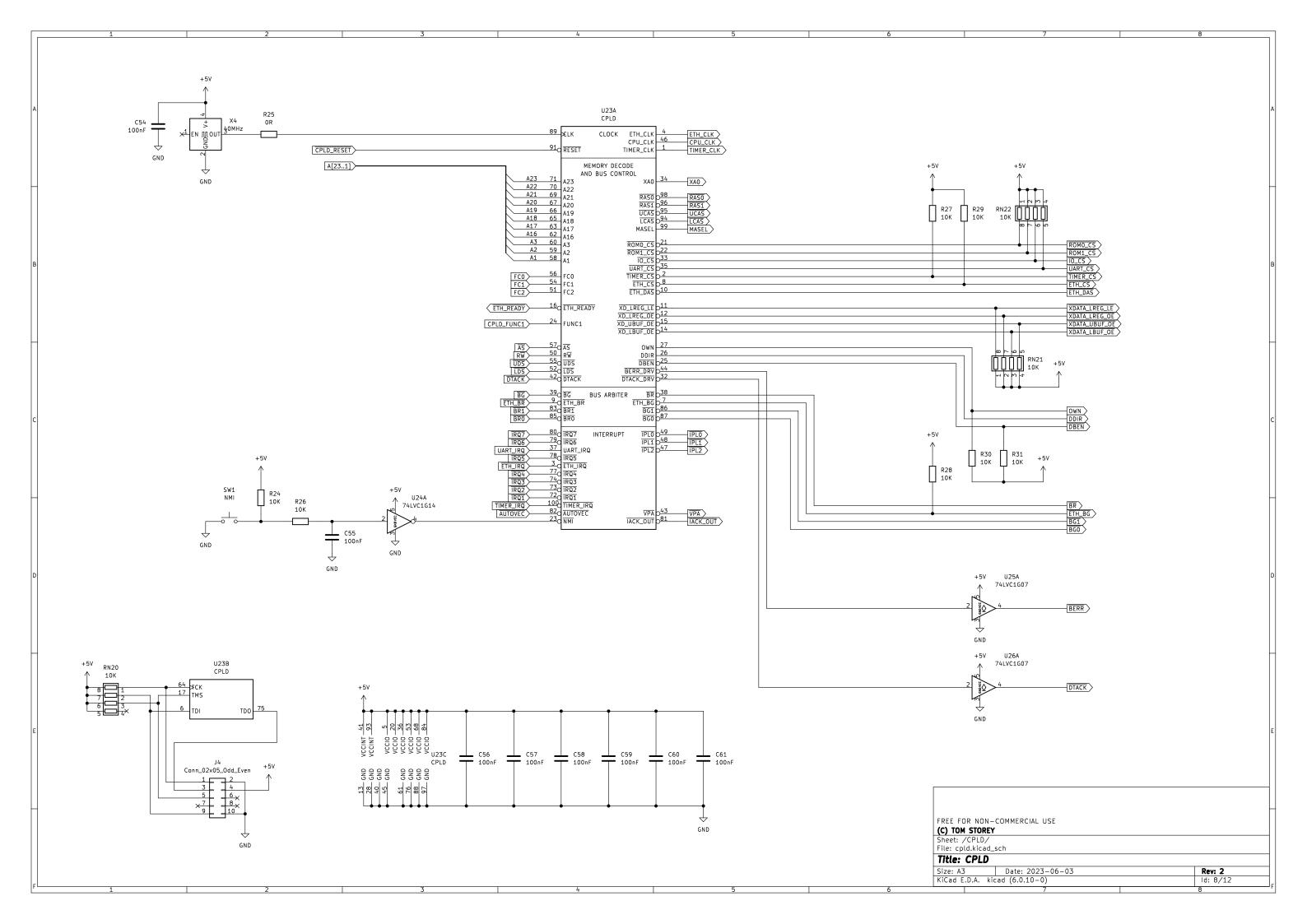












+5٧ U28A 74FCT543T XD[7..0] RN23 XA0 XD1 +5٧ XD3 XD4 -<del>LL</del> XD5 —<u>//</u> 9 10 A6 A7 XD6 B6 16 B7 15 R32 R33 10K U27A D10 130 OEAB 74HCT138 11C CEAB 14C LEAB 2C OEBA 23C CEBA 1 LEBA 71 014 72 013 × 73 012 × 74 011 75 010 76 0 9  $R\overline{W}$ ETH\_XCVR\_LPBK SPK\_GATE ĪO\_CS IO DECODE SUMMARY CPLD\_FUNC1 ) OFFSET WRITE READ FUNCTION GND READ/WRITE CONTROL REGISTER 1 READ/WRITE CONTROL/STATUS REGISTER 2 WATCHDOG TIMER RESET SOFTWARE RESET (IF ENABLED VIA CSR 2) CONFIG\_RD WDT\_CLR GND U29A 74FCT245T Conn\_02x04\_0dd\_Even XD1 B3 16 XD3 B4 15 XD4 XD5 XD6 B7 12 B8 11 GND 9 A8 XD7 19 DIR GND POR\_FLAG CONTROL REGISTER 1 RW-x RW-x RW-xRW-xRW-xRW-xRW-xRW-x+5٧ U30A CPLD\_FUNC1 SPK\_GATE ETH\_LI ETH\_LPBK LED\_D LED\_C LED\_B LED\_A 74LVC1G74 BIT 0 PRE LED\_D: LED D CONTROL 1 = LED OFF 0 = LED ON CPLD\_FUNC1: CPLD FUNCTION 1 0 = LOGIC LOW TO CPLD PIN 1 = LOGIC HIGH TO CPLD PIN BIT 7 1 6 CLR RESET WDT\_EN SPK\_GATE: SPEAKER GATE 1 = SPEAKER TIMER IS GATED 0 = SPEAKER TIMER IS RUNNING LED\_C: LED C CONTROL 1 = LED OFF 0 = LED ON U32A U31A ETH\_LI: ETHERNET LINK INTEGRITY TEST 1 = LINK INTEGRITY TEST ENABLED 0 = LINK INTEGRITY TEST DISABLED LED\_B: LED B CONTROL 1 = LED OFF 0 = LED ON U33A 74LVC1G74 74LVC1G74 74LVC1G32 -O PRE Z PRE BIT 4 ETH\_LPBK: ETHERNET LOOPBACK 1 = LOOPBACK ENABLED BIT 0 LED\_A: LED A CONTROL 1 = LED OFF 1 = LED O... 0 = LED ON 0 = LOOPBACK DISABLED -b⊊IK 6 CLR 6 CLR SOFT\_RESET CONTROL/STATUS REGISTER 2 R-1 R-0 RW-0 RW-0 R-x R-x POR WDTO SOFT\_RST\_EN WDT\_EN CONFIG3 CONFIG2 CONFIG1 CONFIG0 GND BIT 7 POR: POWER ON RESET FLAG (1)(3) 1 = POWER ON RESET OCCURRED 0 = NORMAL RESET WDT\_EN: WATCHDOG TIMER ENABLE (4) 1 = WATCHDOG IS ENABLED 0 = WATCHDOG IS DISABLED BIT 3-0 CONFIG3..0: CONFIGURATION JUMPERS 1 = OPEN, JUMPER NOT INSTALLED 0 = CLOSED, JUMPER INSTALLED WDTO: WATCHDOG TIMEOUT FLAG (2)(3) 1 = WATCHDOG TIMEOUT CAUSED RESTART 0 = NORMAL RESET +5٧ BIT 5 SOFT\_RST\_EN: SOFTWARE RESET ENABLE (4)
1 = SOFTWARE RESET MAY BE INITIATED
0 = SOFTWARE RESET IS INHIBITED NOTE 1: BIT IS SET DURING POWER UP, OR BROWNOUT IF VOLTAGE DROPS TO 4V OR LESS.
NOTE 2: BIT IS SET IN THE EVENT OF A WATCHDOG TIMEOUT. BIT IS CLEARED BY POR OR BROWNOUT.
NOTE 3: BIT IS CLEARED AFTER CONTROL/STATUS REGISTER 2 IS READ.
NOTE 4: BIT IS CLEARED FOLLOWING ANY RESET CAUSE. S U28B Ş U32B ≥ U30B ¥ U31B ≥ u33B ≥ U29B ≥ U27B 974LVC1G74 974LVC1G74 974LVC1G74 874LVC1G32 ⊋ 74FCT543T 74FCT245T ⊋ 74HCT138 FREE FOR NON-COMMERCIAL USE LEGEND: R = READABLE BIT -n = VALUE AT POR W = WRITABLE BIT 1 = BIT IS SET (C) TOM STOREY x = BIT IS UNKNOWN Sheet: /Onboard IO/ File: onboard\_io.kicad\_sch Title: ON-BOARD I/O PORTS GND Size: A3 Date: 2023-06-03 KiCad E.D.A. kicad (6.0.10-0)

