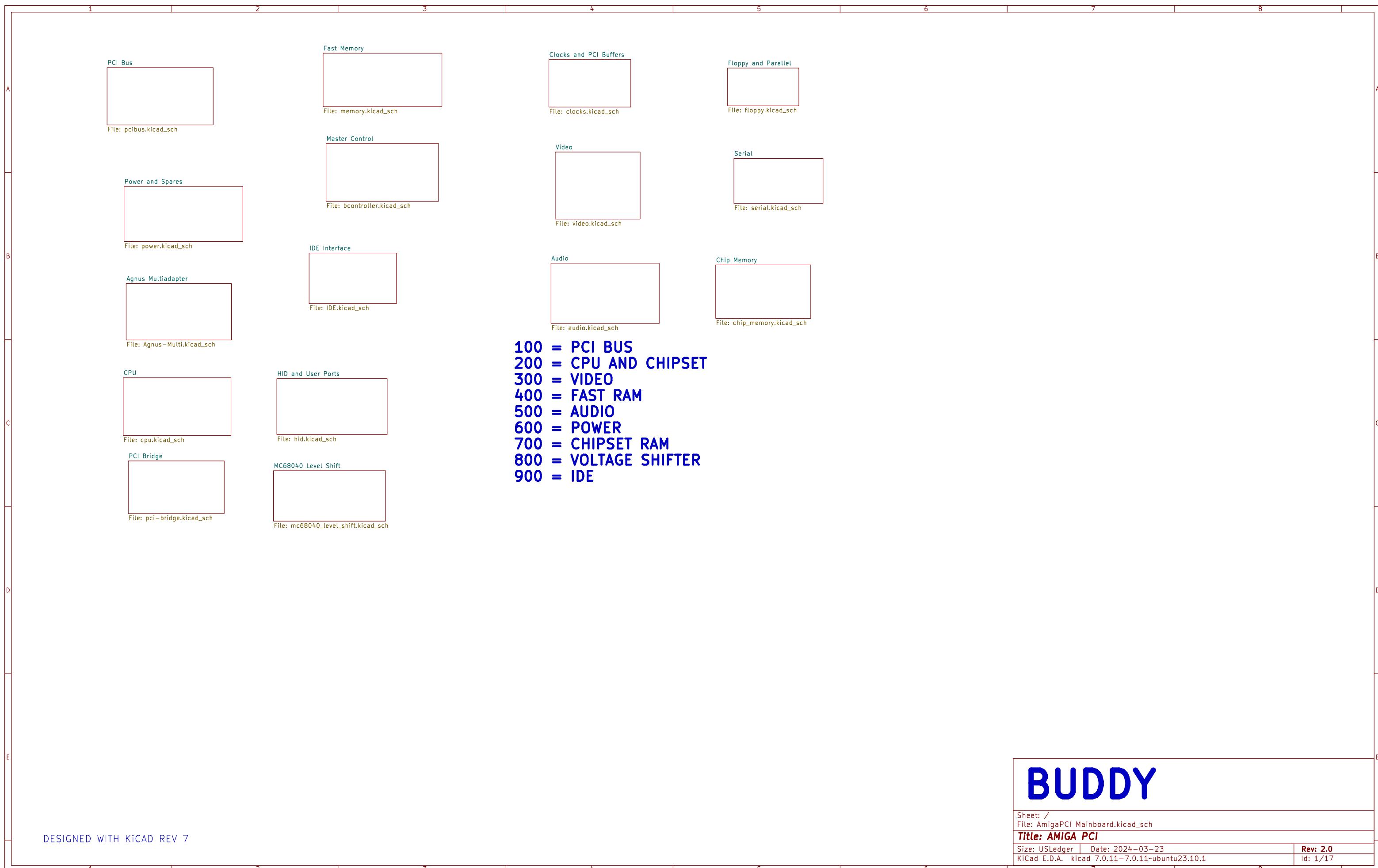


1 2 3 4 5 6 7 8



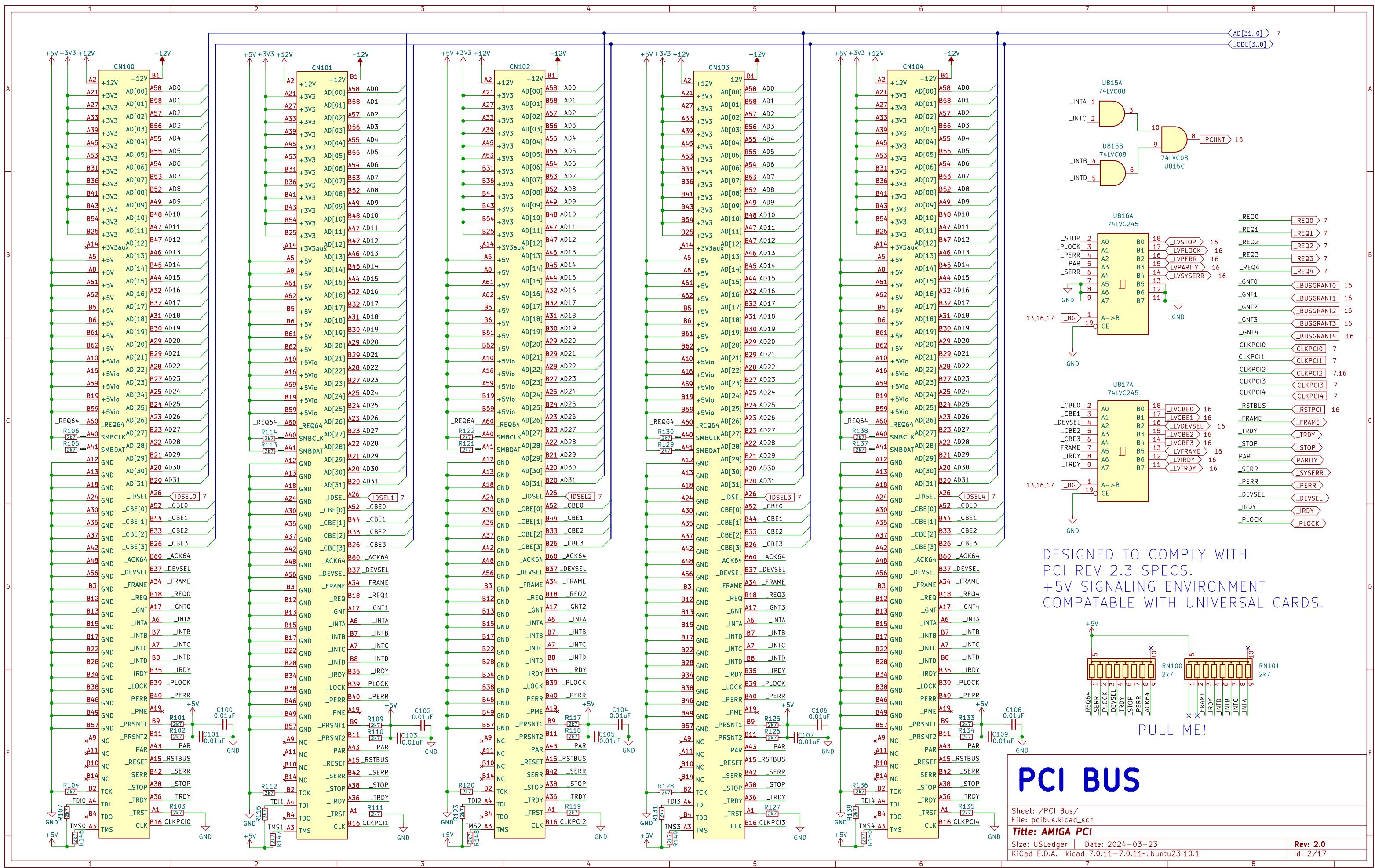
BUDDY

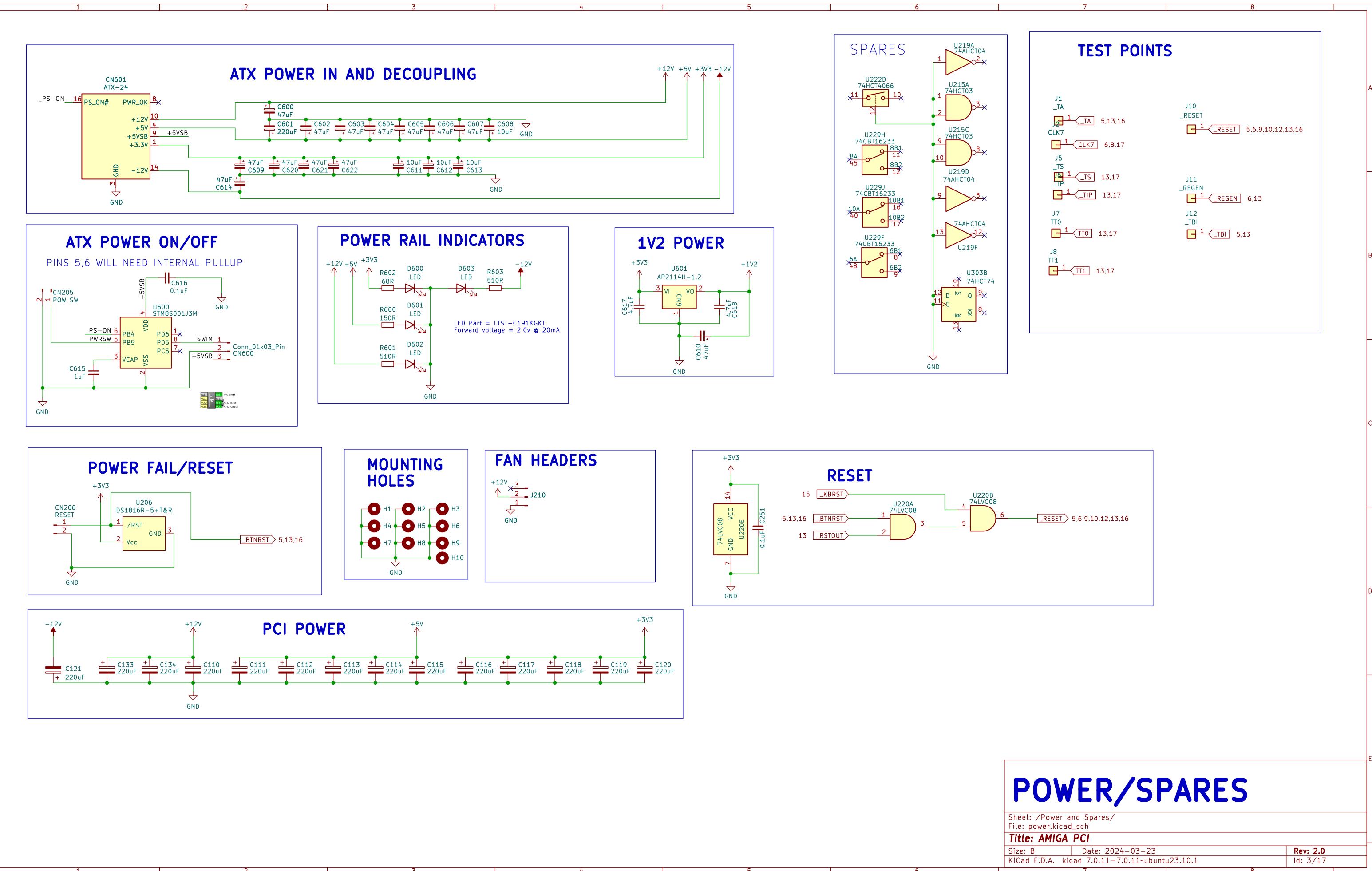
Sheet: /
File: AmigaPCI Mainboard.kicad_sch

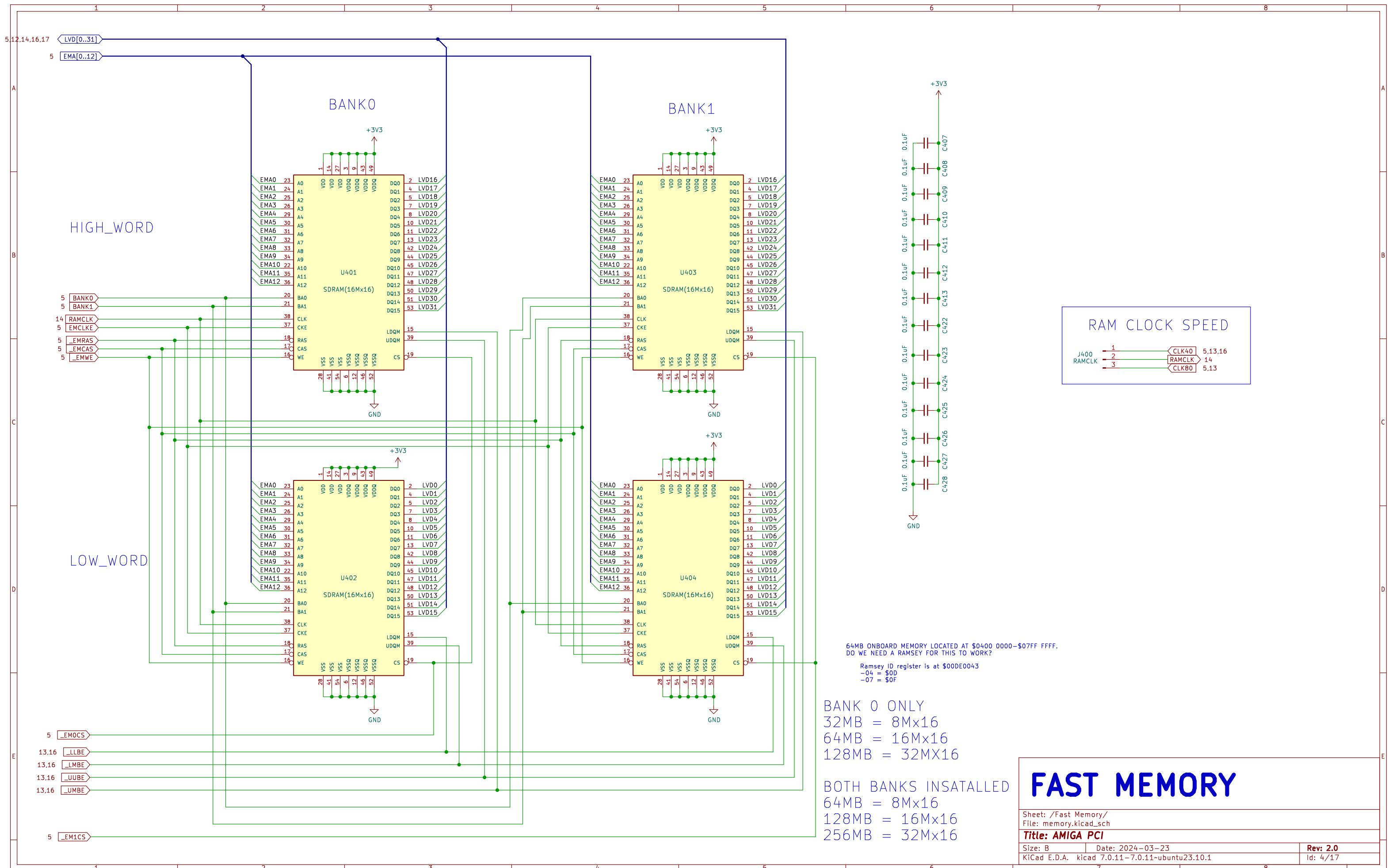
Title: AMIGA PCI

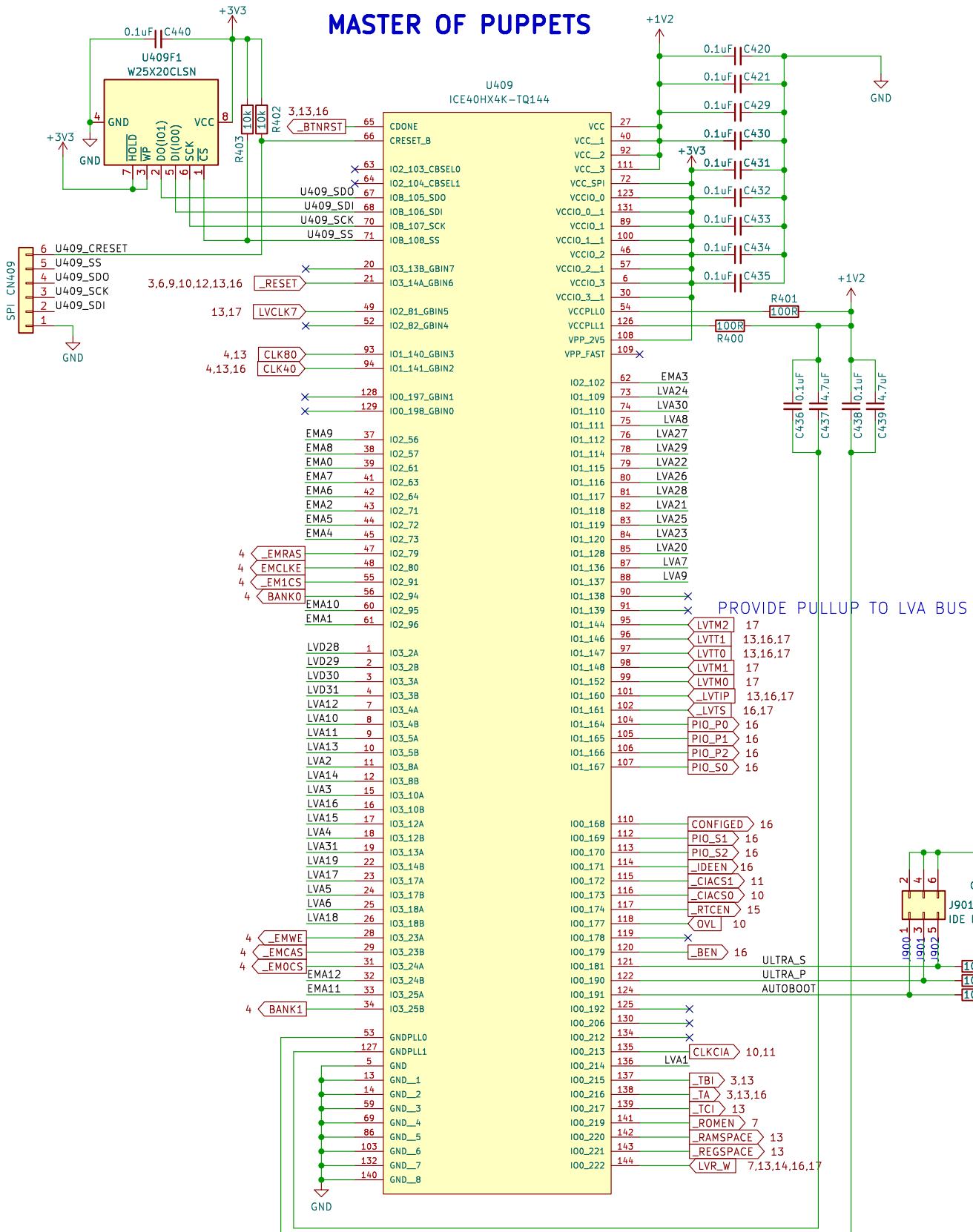
Size: USLetter Date: 2024-03-23
KiCad E.D.A. kicad 7.0.11-7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 1/17









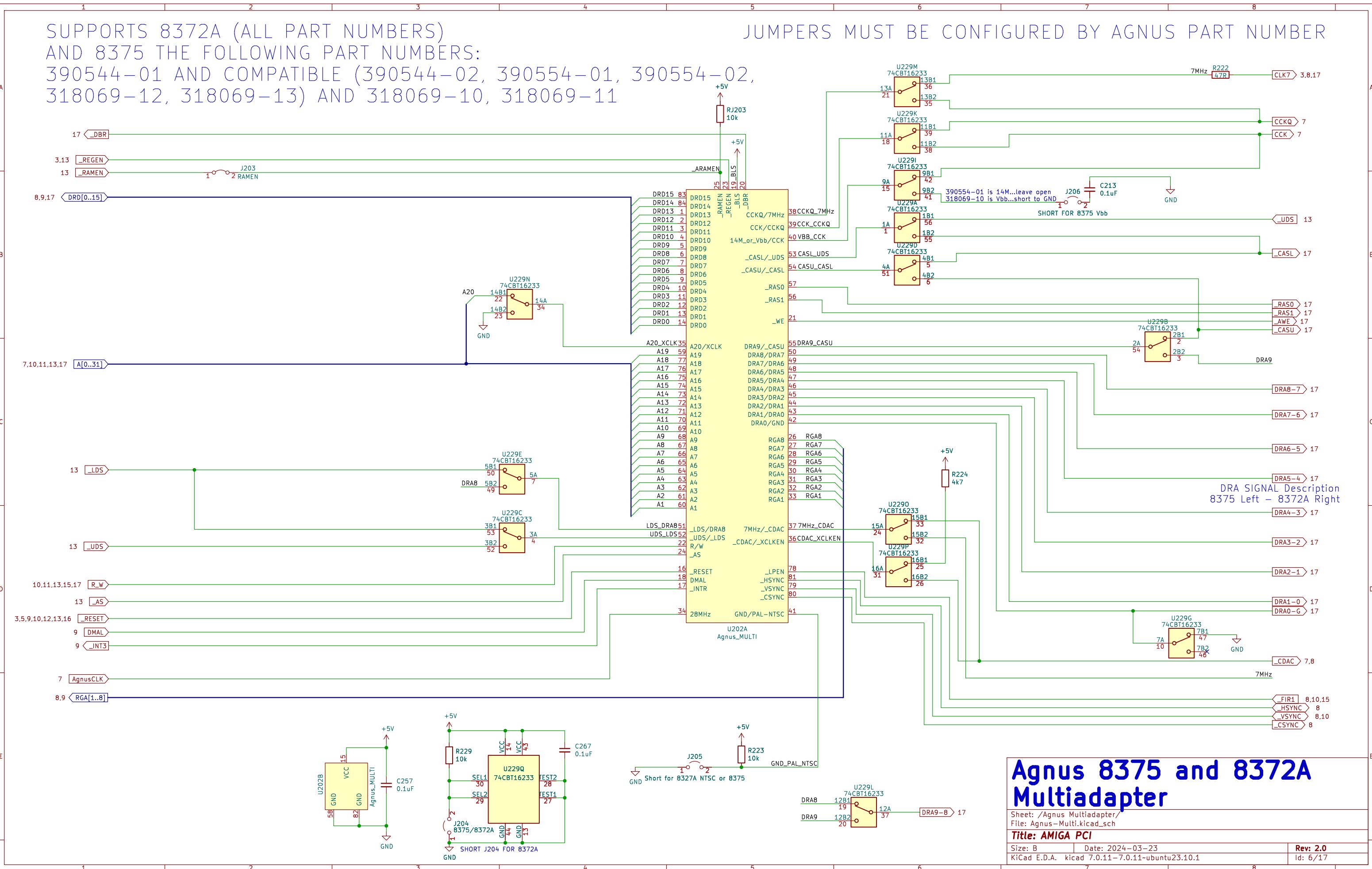
SUPPORTS 8372A (ALL PART NUMBERS)

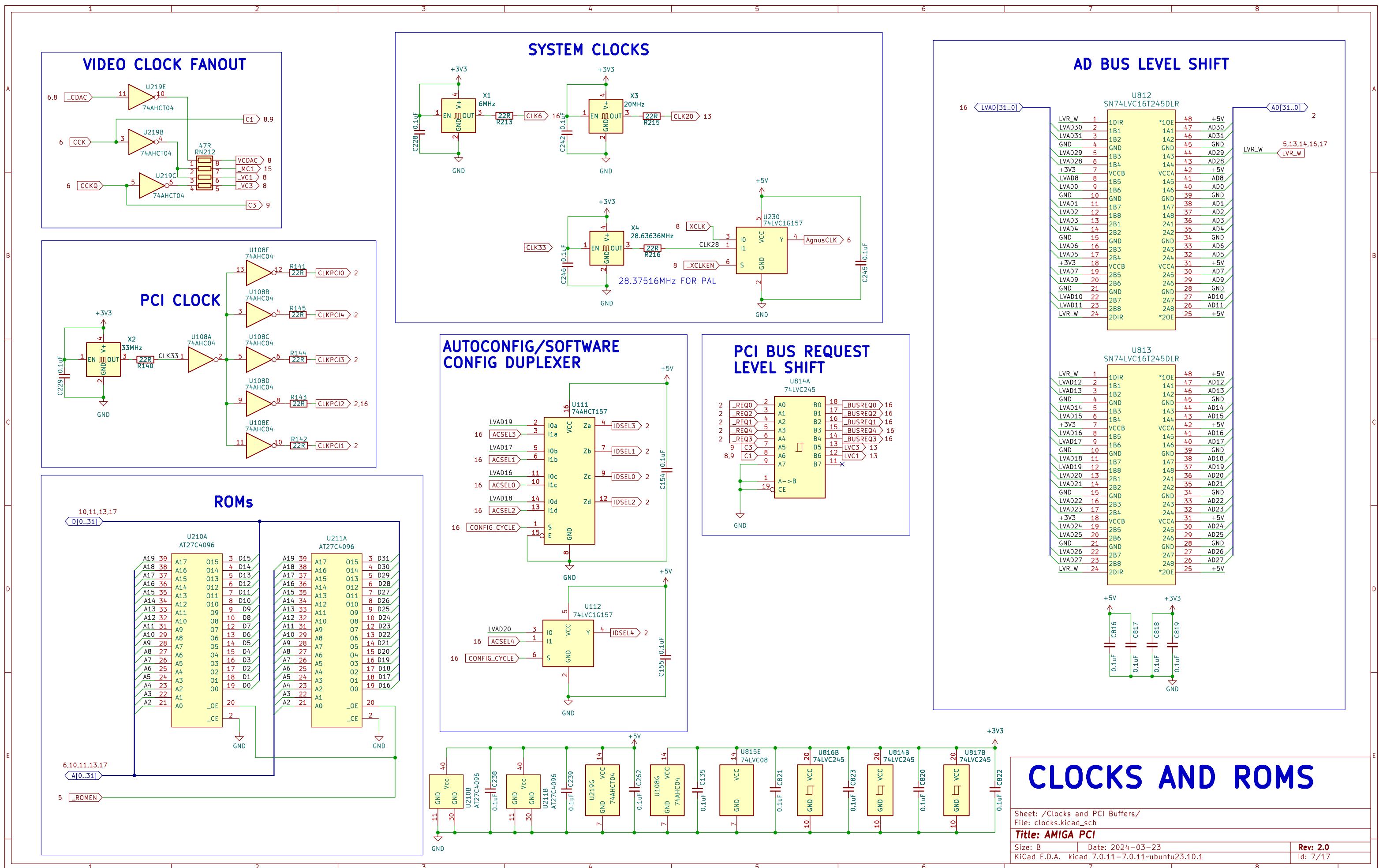
AND 8375 THE FOLLOWING PART NUMBERS:

390544-01 AND COMPATIBLE (390544-02, 390554-01, 390554-02,

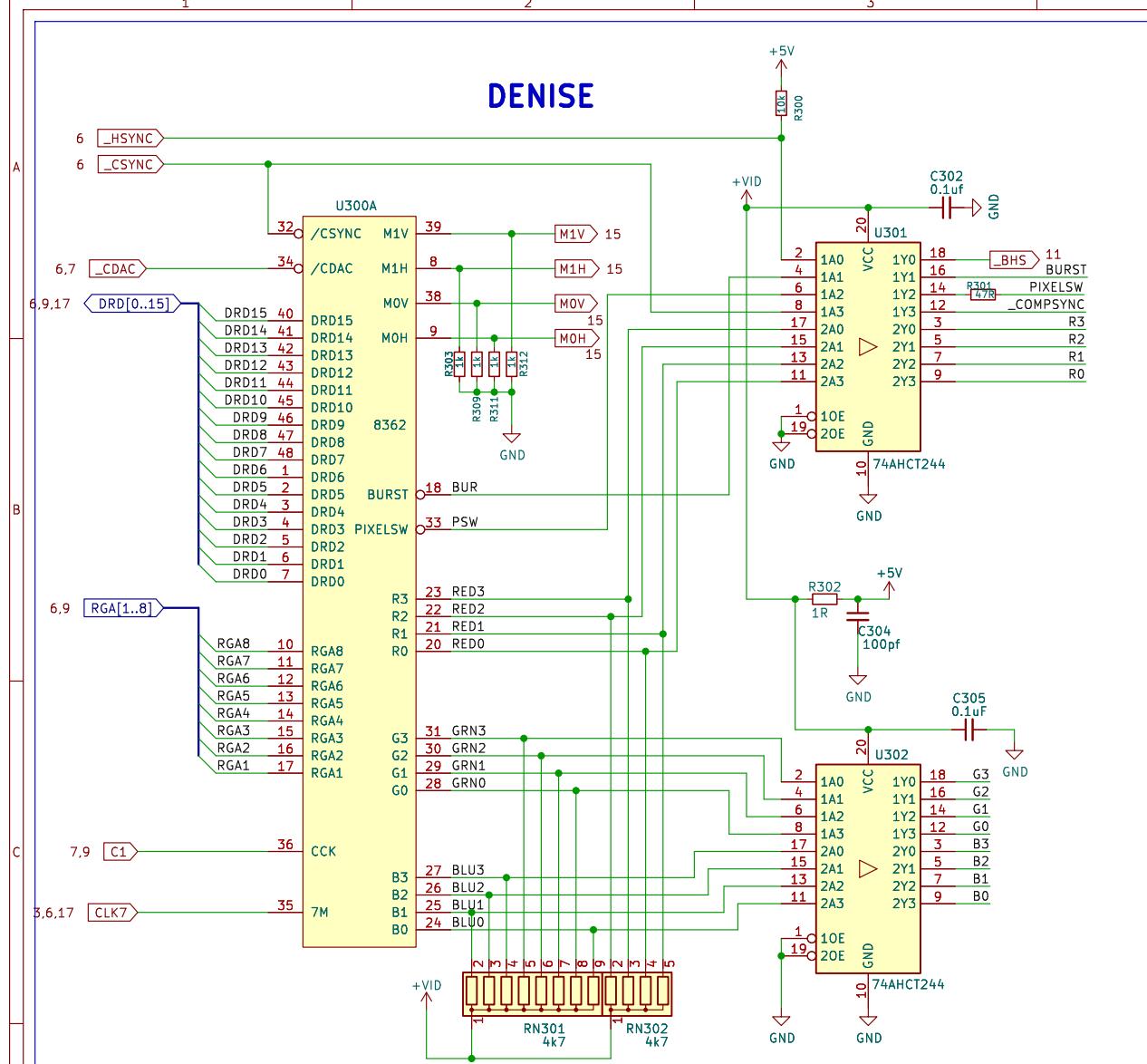
318069-12, 318069-13) AND 318069-10, 318069-11

JUMPERS MUST BE CONFIGURED BY AGNUS PART NUMBER

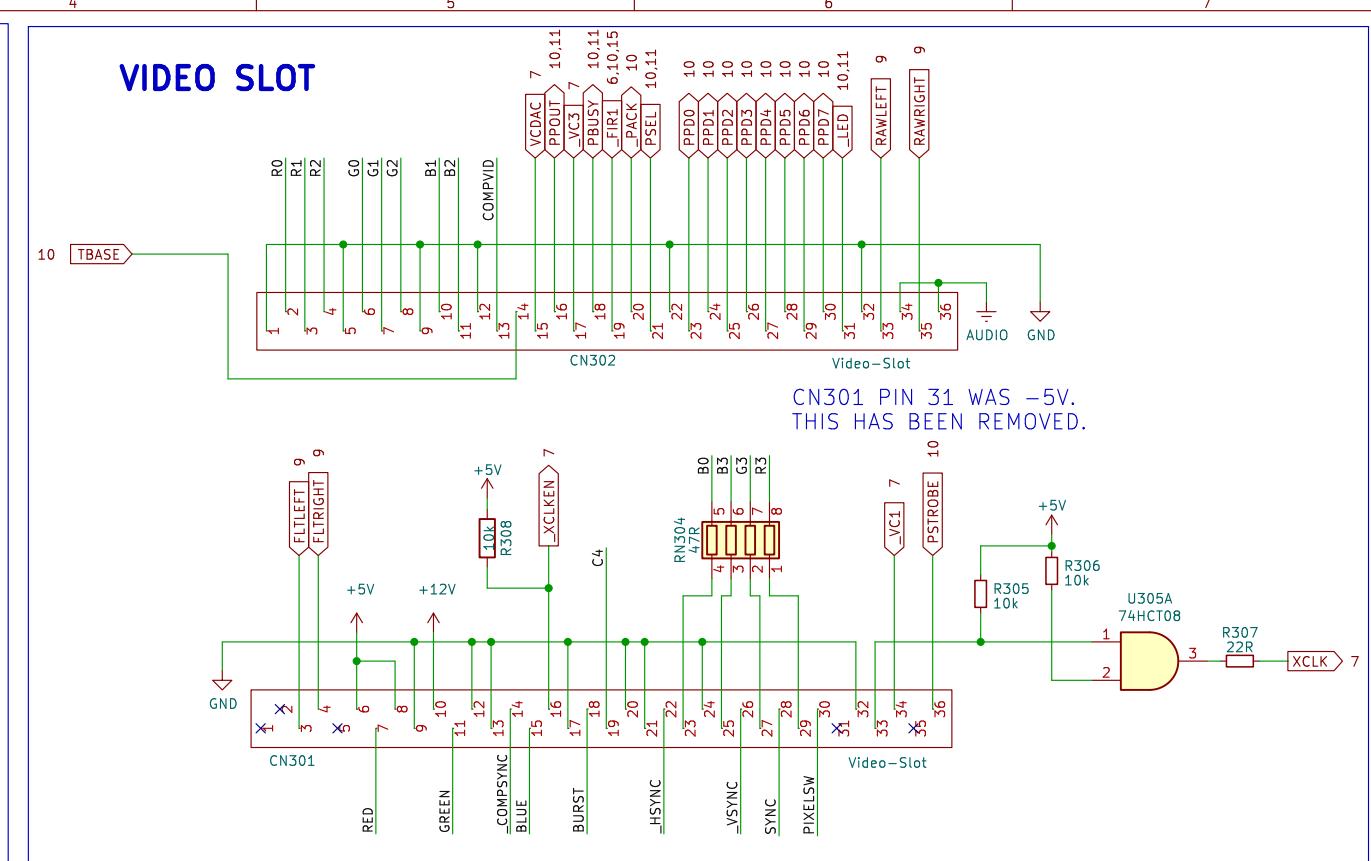




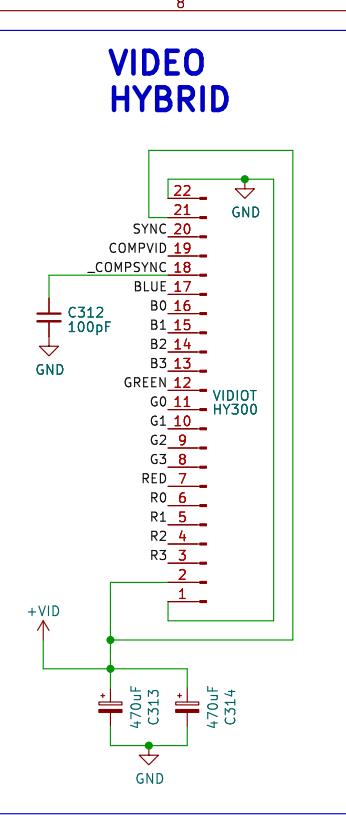
DENISE



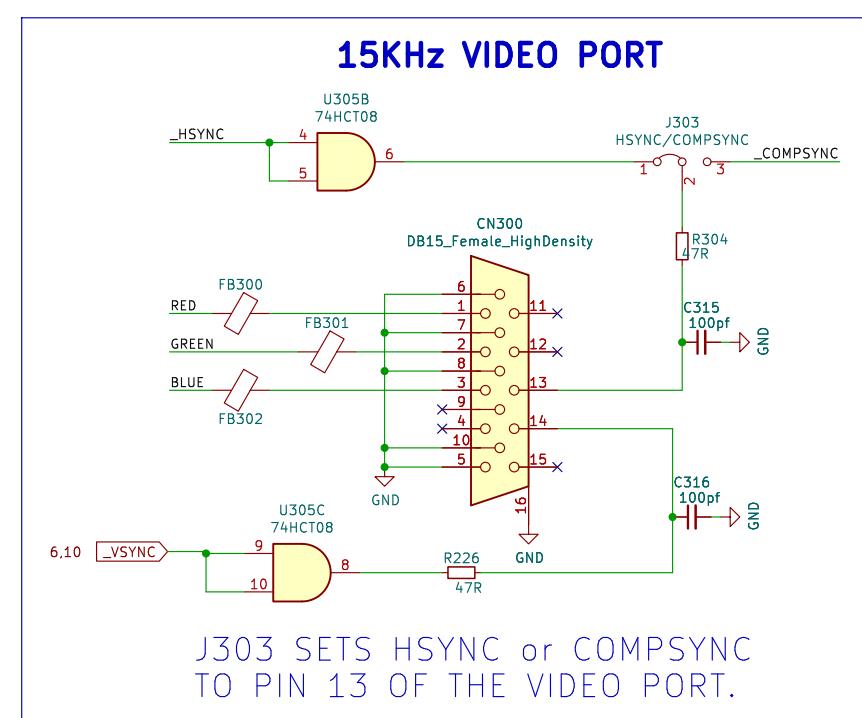
VIDEO SLOT



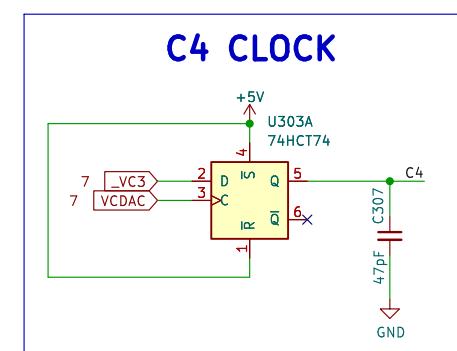
VIDEO HYBRID



15KHz VIDEO PORT



C4 CLOCK



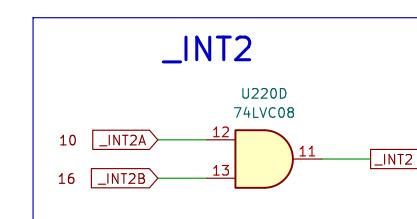
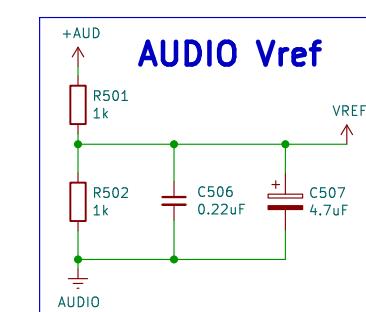
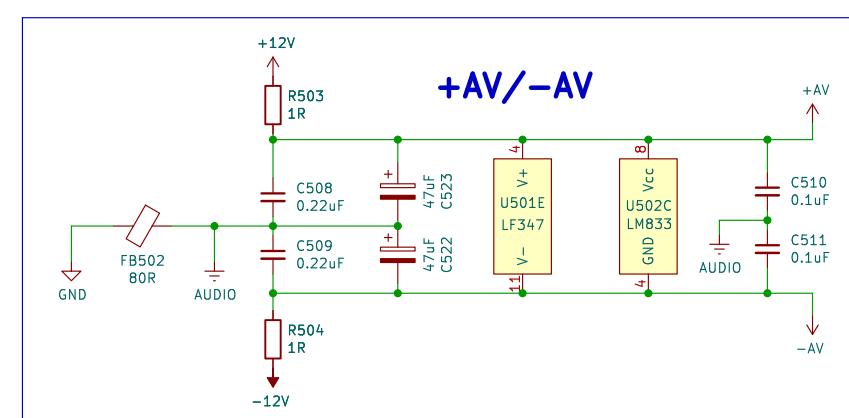
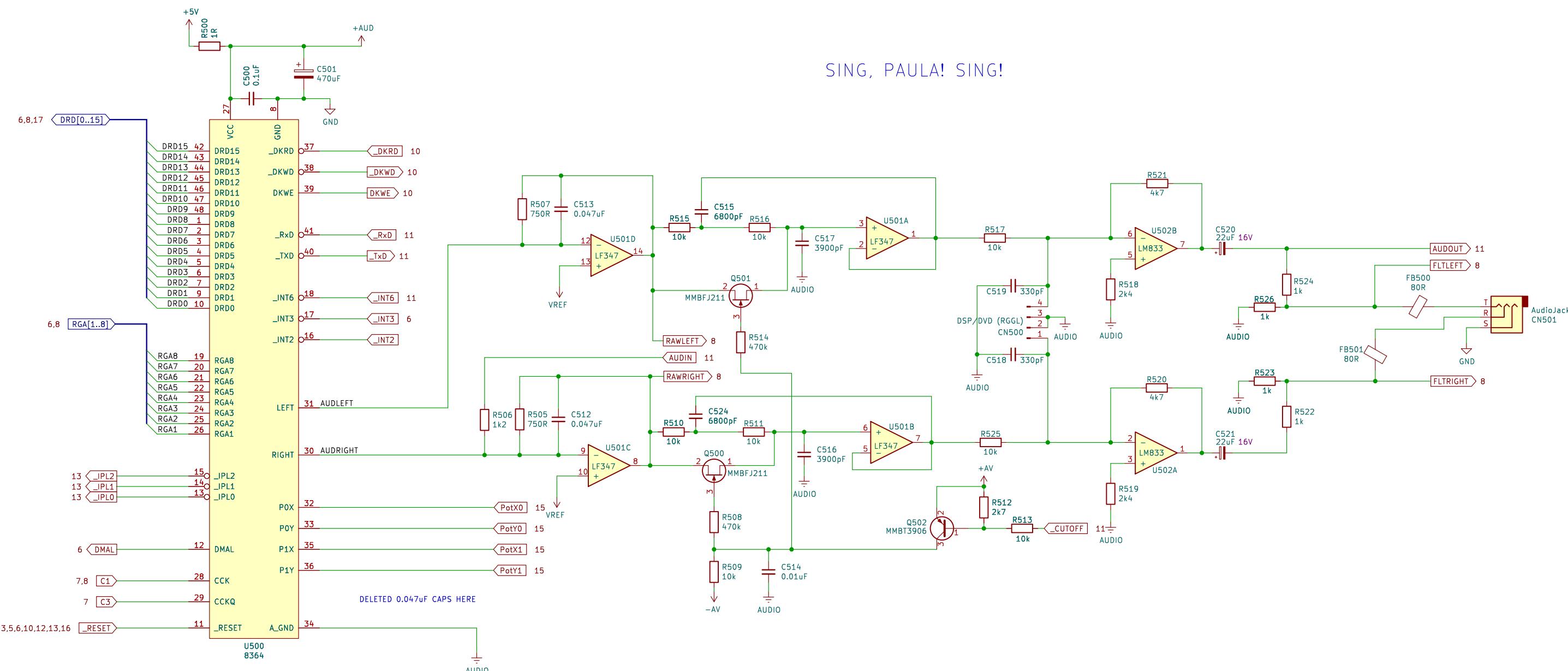
VIDEO

Sheet: /Video/
File: video.kicad_sch

Title: AMIGA PCI

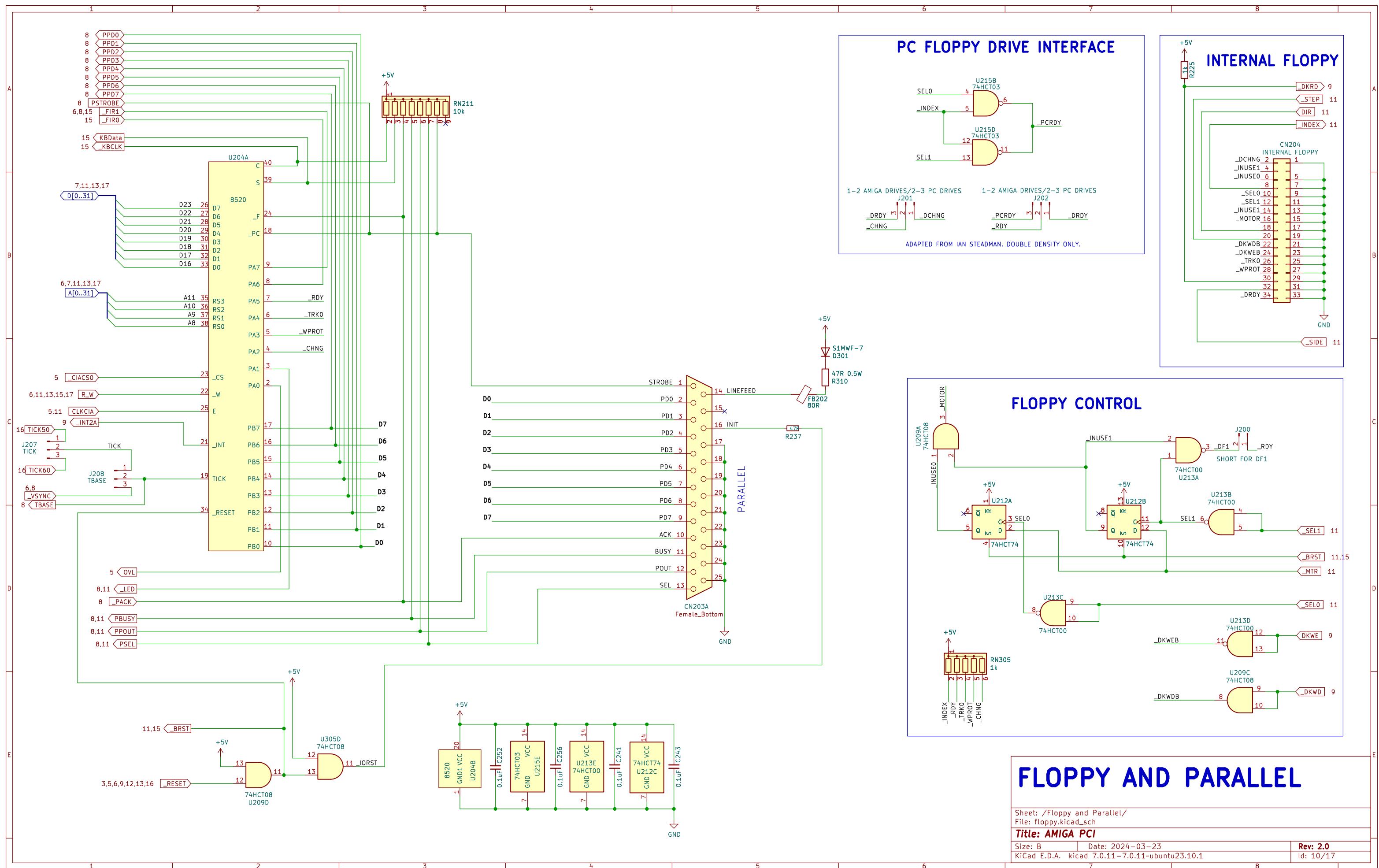
Size: B Date: 2024-03-23
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

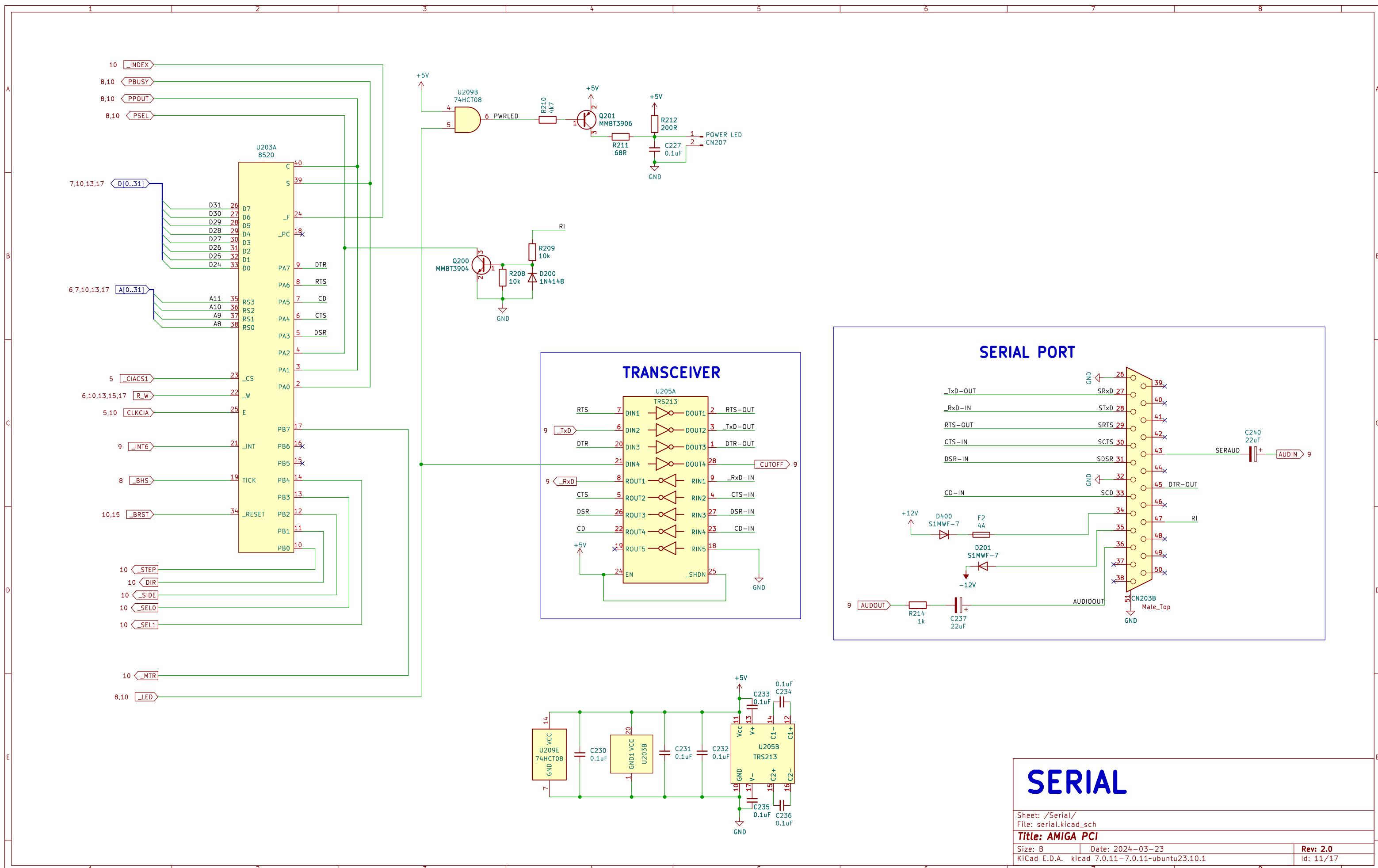
Rev: 2.0
Id: 8/17



PAULA/AUDIO

Sheet: /Audio/
File: audio.kicad_sch
Title: AMIGA PCI
Size: B Date: 2024-03-23
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1
Rev: 2.0
Id: 9/17





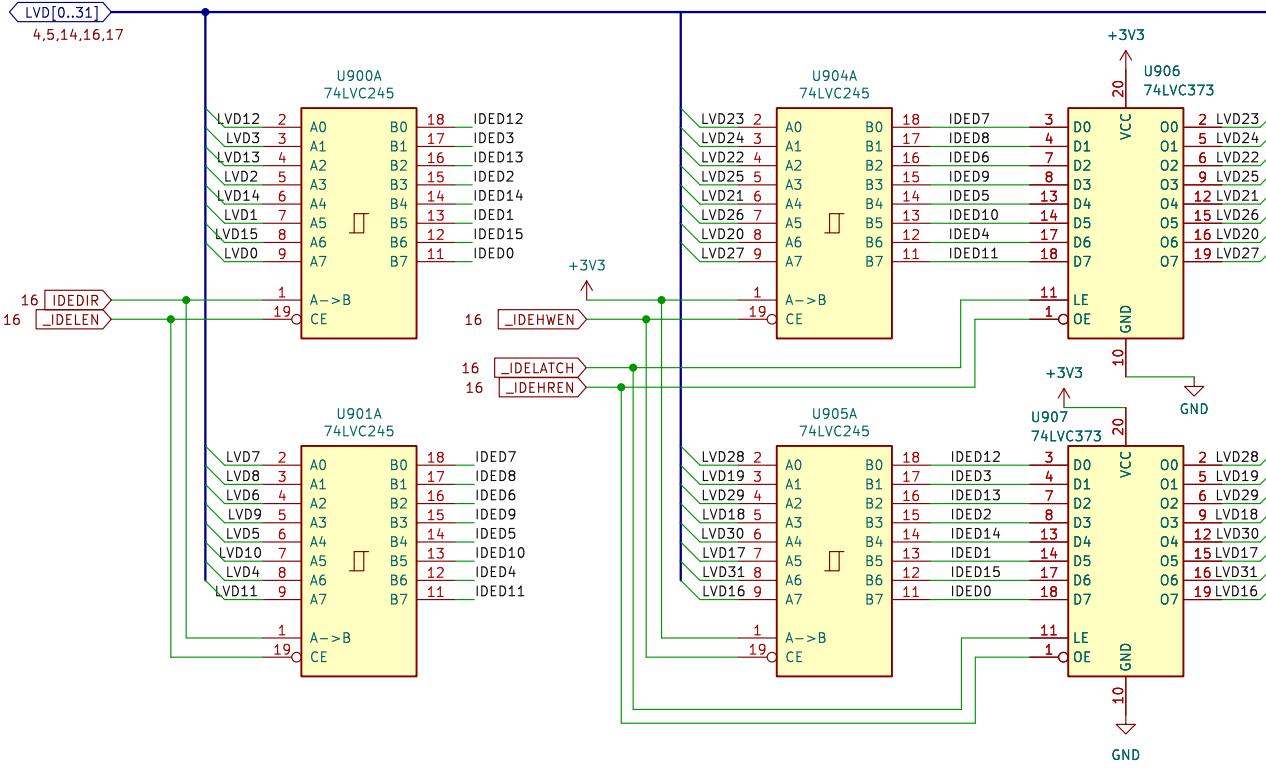
74LVC245 ENABLED FOR FIRST WORD DURING WRITES.
DATA ALWAYS FLOWS A->B.

74LVC373 LATCHES DATA FOR FIRST WORD DURING READS.

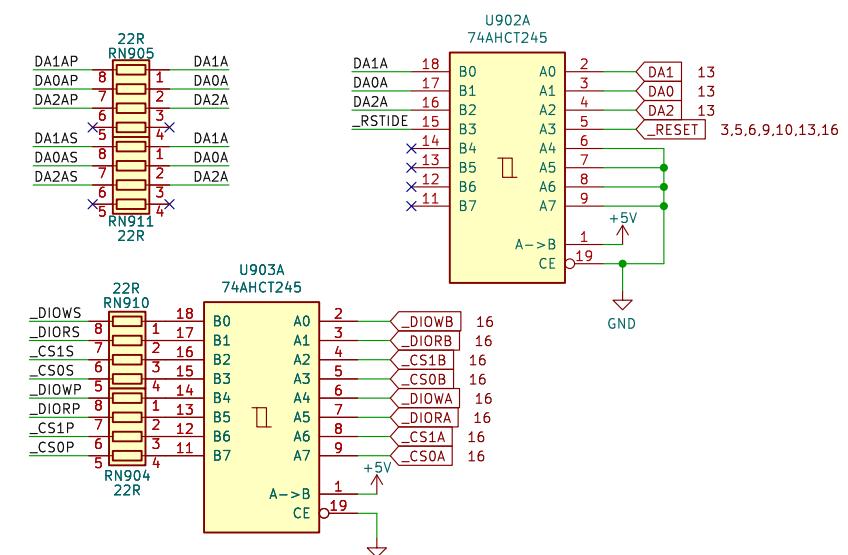
DATA BUFFERS

DURING WRITE CYCLES, ALL DATA IS REAL-TIME.
FOR THE FIRST WRITE COMMAND, D16..31 IS ENABLED.
FOR THE SECOND WRITE COMMAND, D0..15 IS ENABLED.

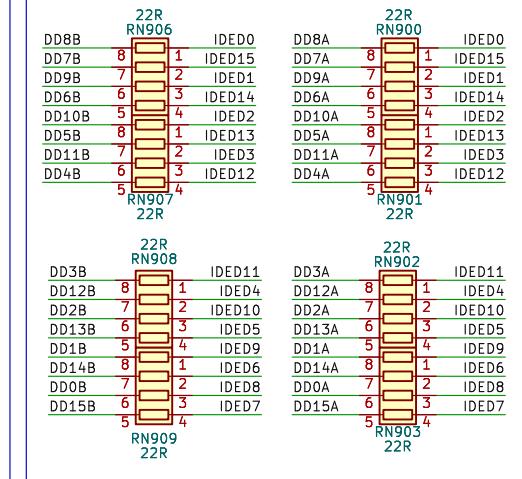
DURING READ CYCLES, D16..31 IS LATCHED
AFTER THE FIRST READ COMMAND FROM THE IDE DEVICE.
THE SECOND READ FROM THE IDE DEVICE DRIVES
D0..15 LIVE. THE DATA IS THEN LATCHED BY THE MC68040.



BUFFERS AND TERMINATION

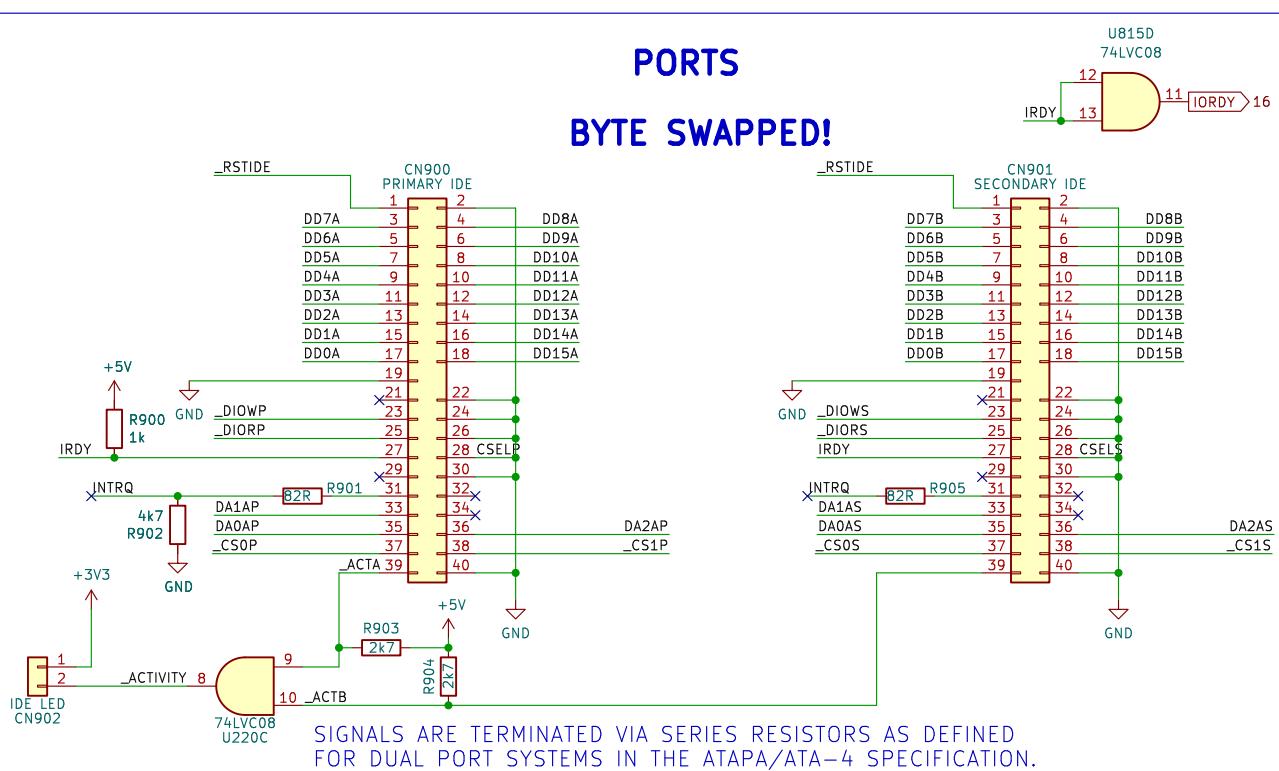


DATA TERMINATION



PORTS

BYTE SWAPPED!



SIGNALS ARE TERMINATED VIA SERIES RESISTORS AS DEFINED
FOR DUAL PORT SYSTEMS IN THE ATAPA/ATA-4 SPECIFICATION.

IDE INTERFACE

Sheet: /IDE Interface/
File: IDE.kicad_sch

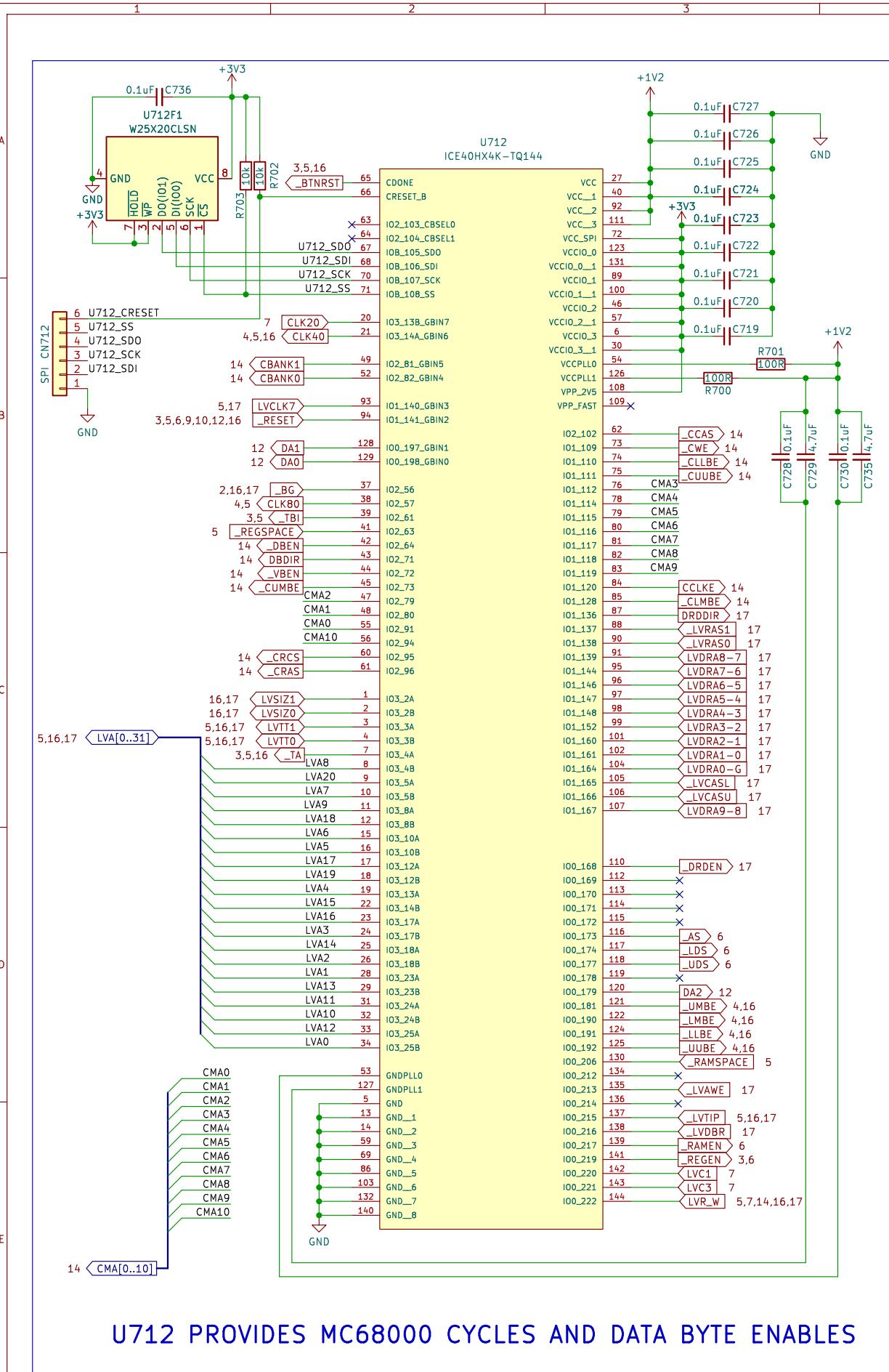
Title: AMIGA PCI

Size: B Date: 2024-03-23

KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

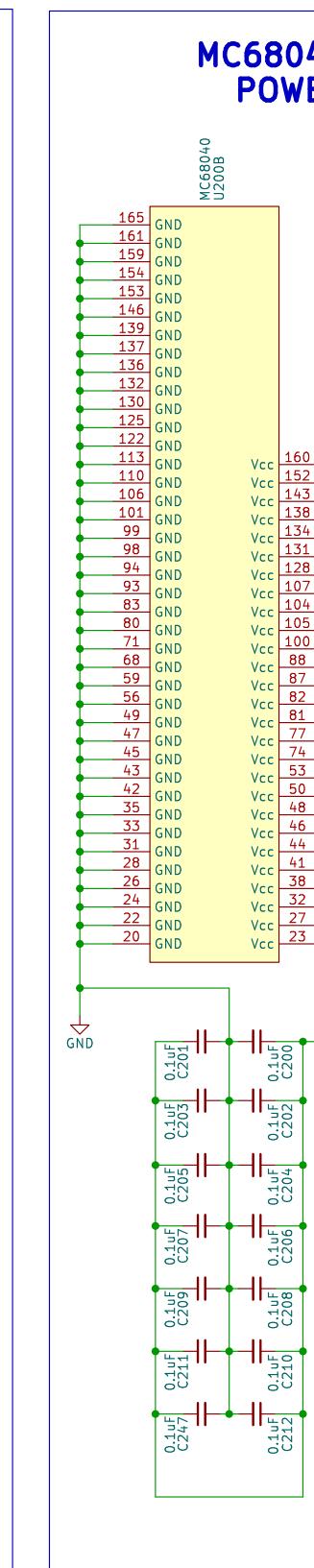
Rev: 2.0

Id: 12/17

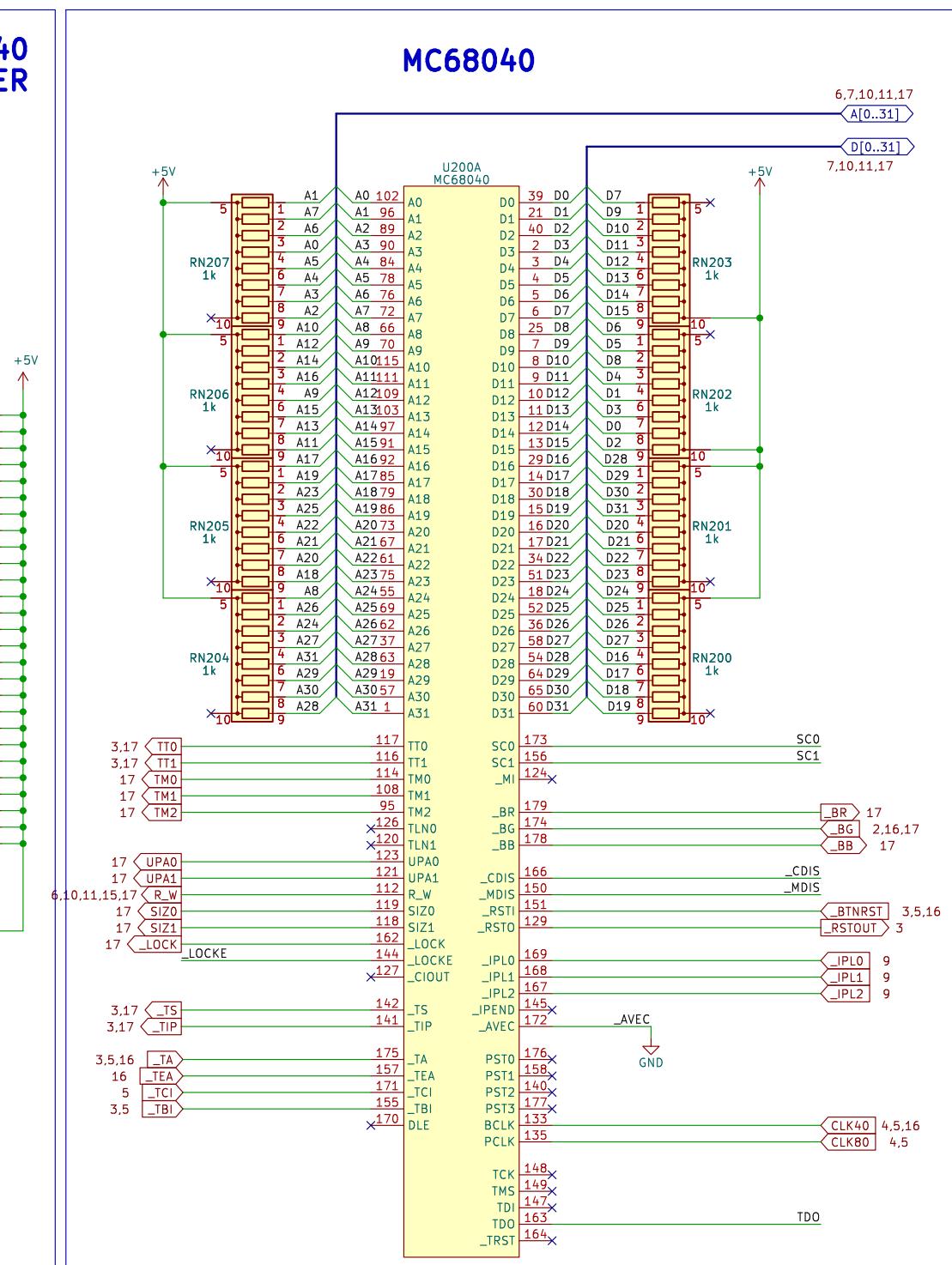


U712 PROVIDES MC68000 CYCLES AND DATA BYTE ENABLER

MC6804
POWER



MC68040

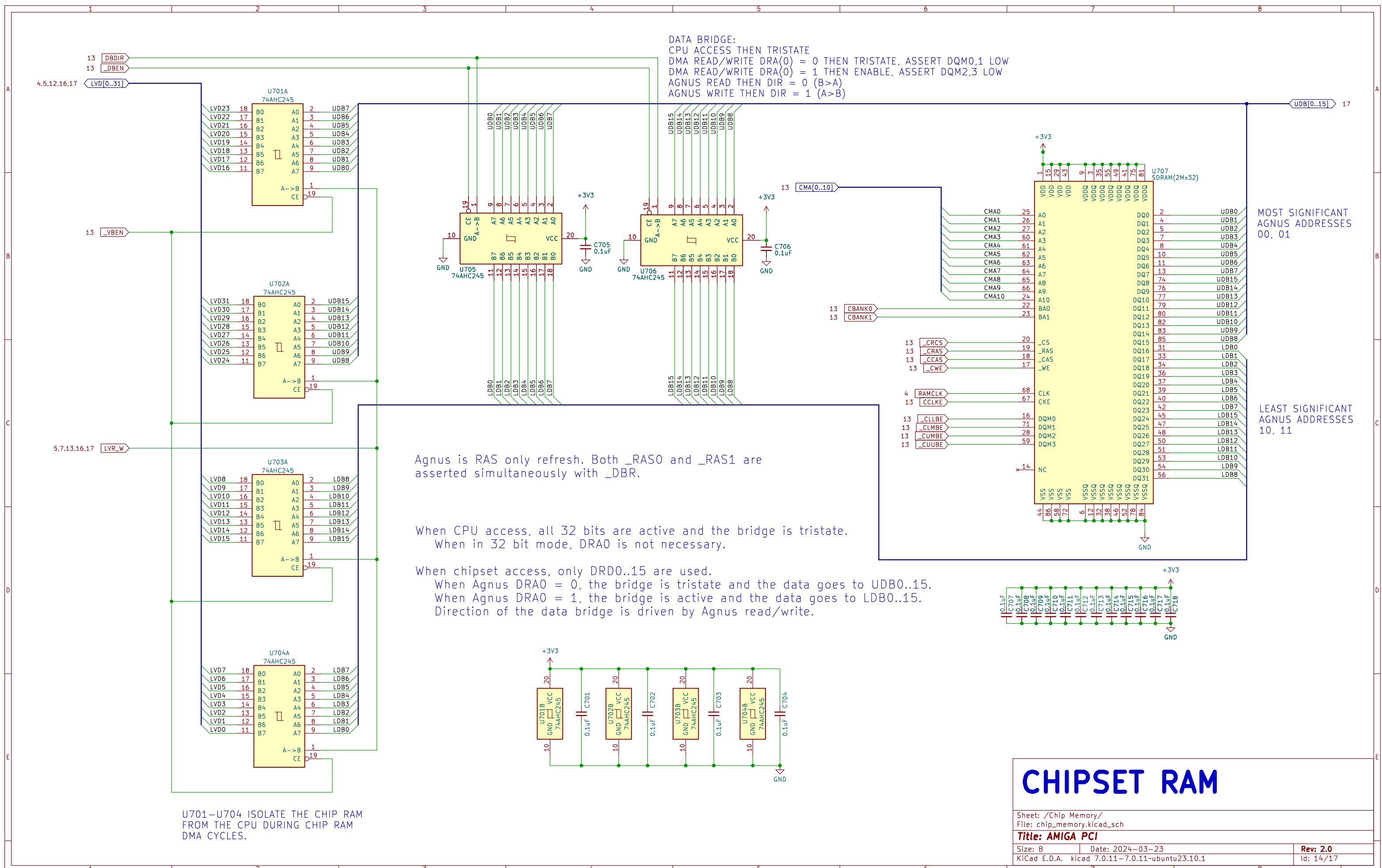


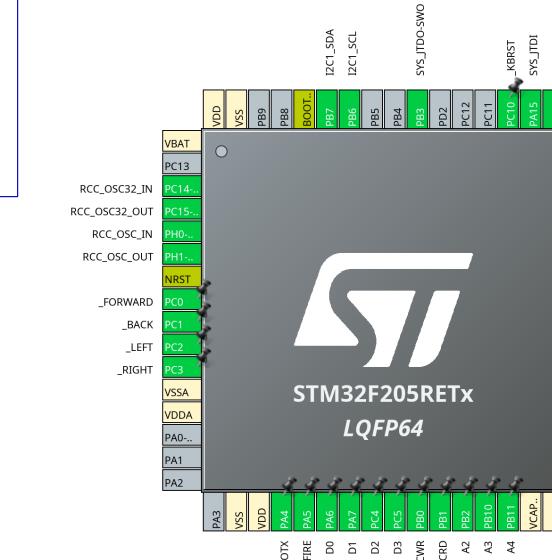
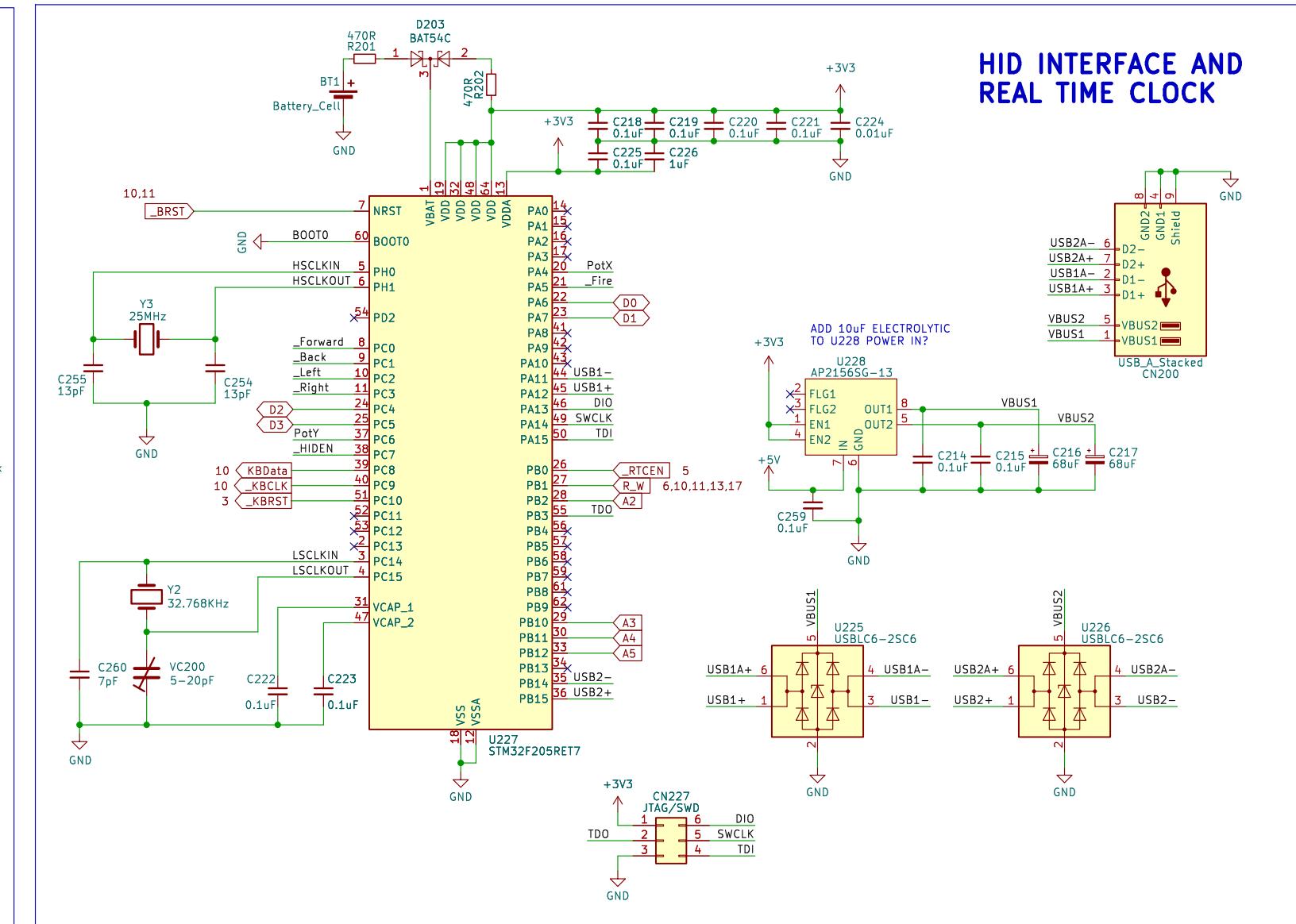
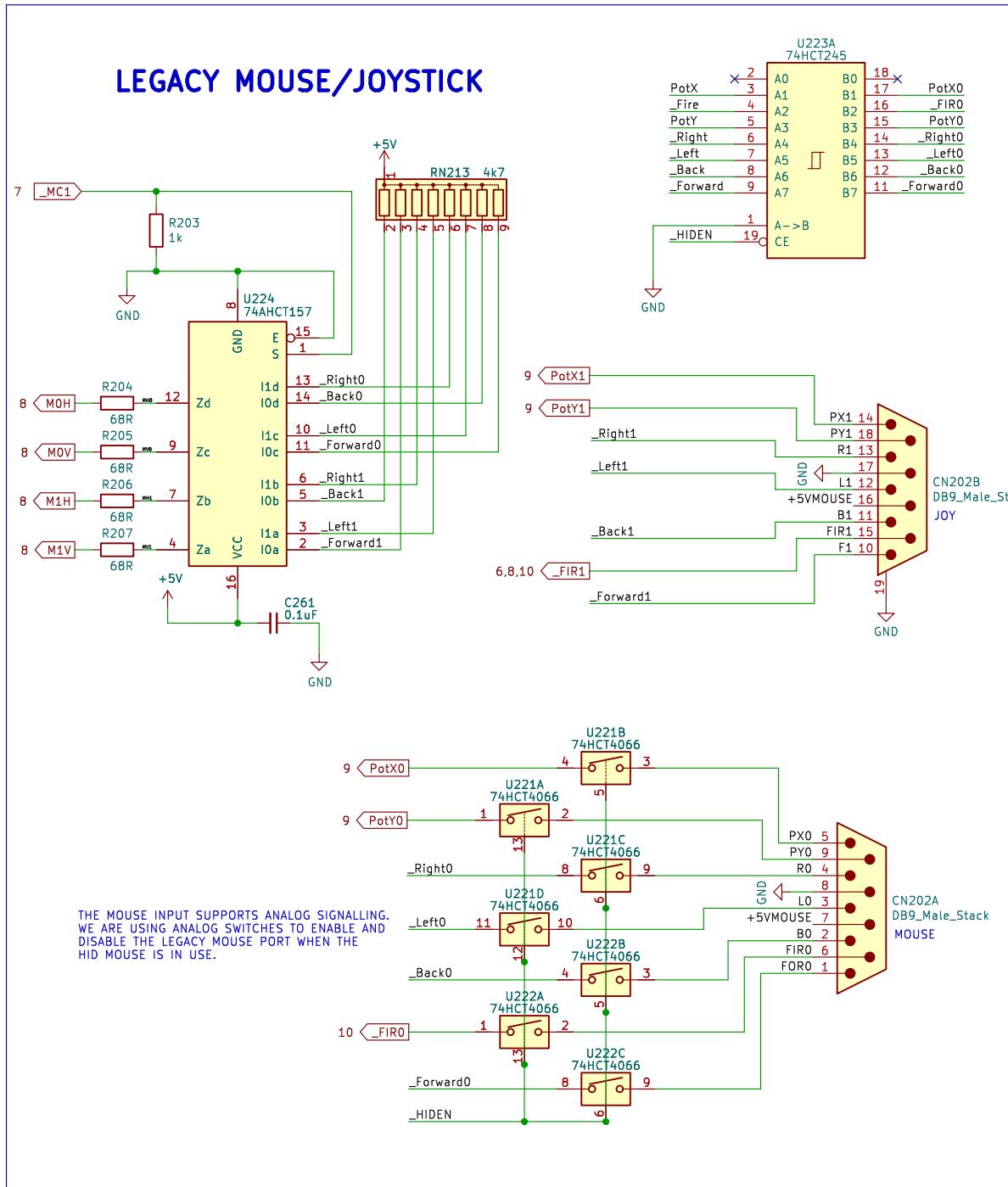
MC68040 PREFERRED HEATSINK:
ATS-CPX060060025-132-C1-R0 x 1
ATS-HK127-R0 x 4

ALTERNATE HEATSINK: BDN18-6CB/A01

CPU/CHIP RAM CONT

Sheet: /CPU/
File: cpu.kicad_sch
Title: AMIGA PCI
Size: B Date: 2024-03-23
KiCad EDA - kicad 7.0.11 - 7.0.11 - ubuntu 23.10





HID and USER PORTS

Sheet: /HID and User Ports/
File: hid.kicad_sch

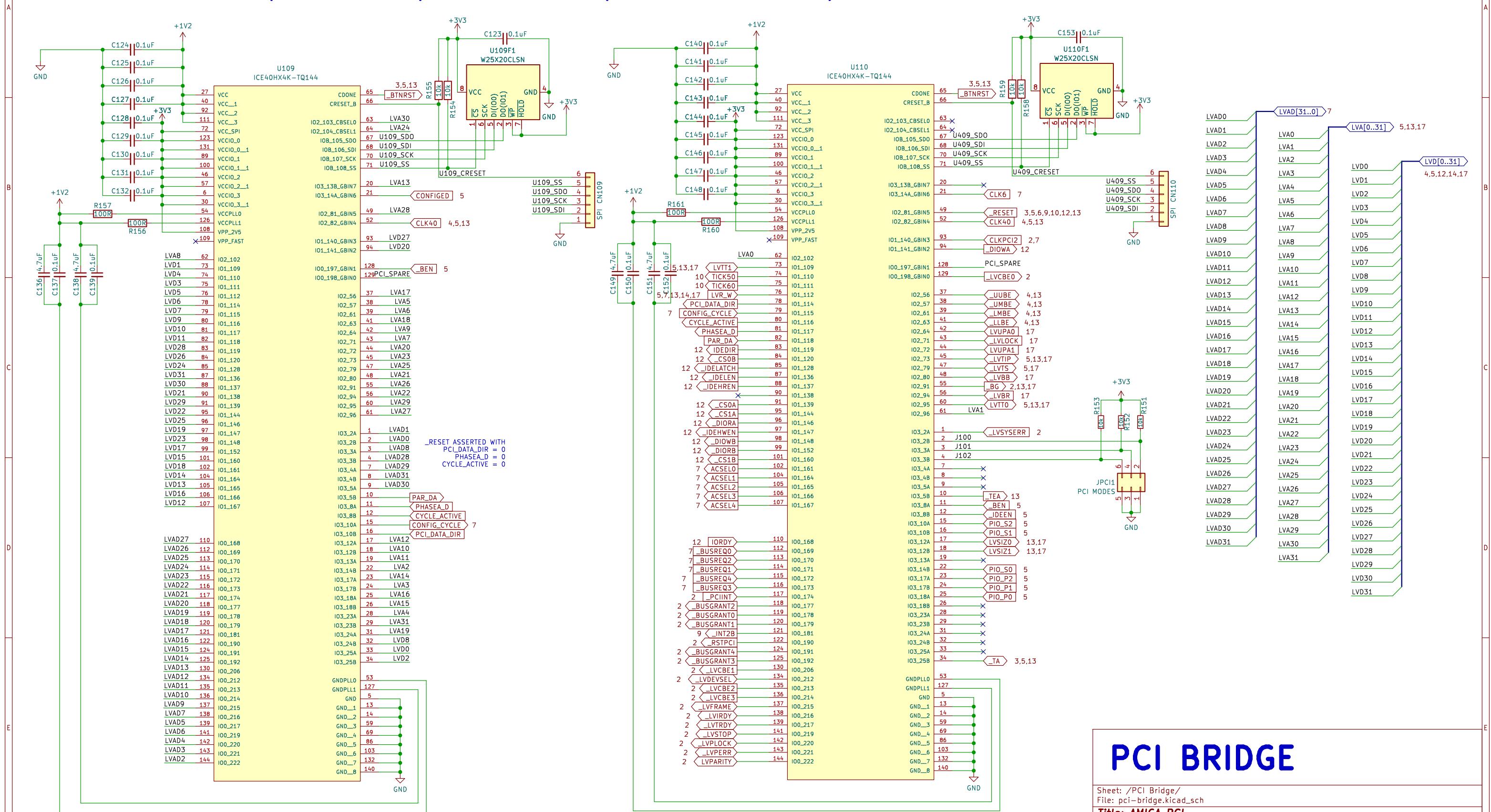
Title: AMIGA PCI

Size: B Date: 2024-03-23
KiCad E.D.A. kicad 7.0.11-7.0.11~ubuntu23.10.1

ev: 2.0
d: 15/17

U109: BUFFERS AD/D/A BUSSES, AD PARITY CALC, AUTOCONFIG, BRIDGE REGISTERS

U110: PCI STATE MACHINE, BUS ARBITRATOR, INTERRUPT HANDLING, PARITY ERROR DETECTION, IDE CONTROLLER



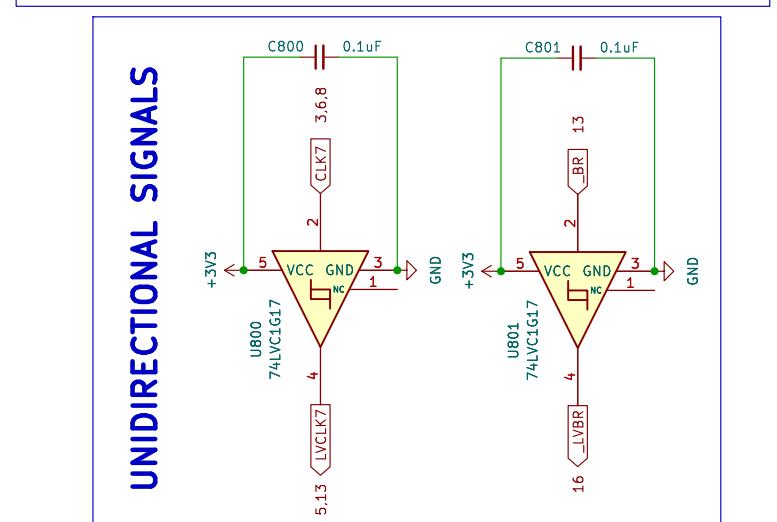
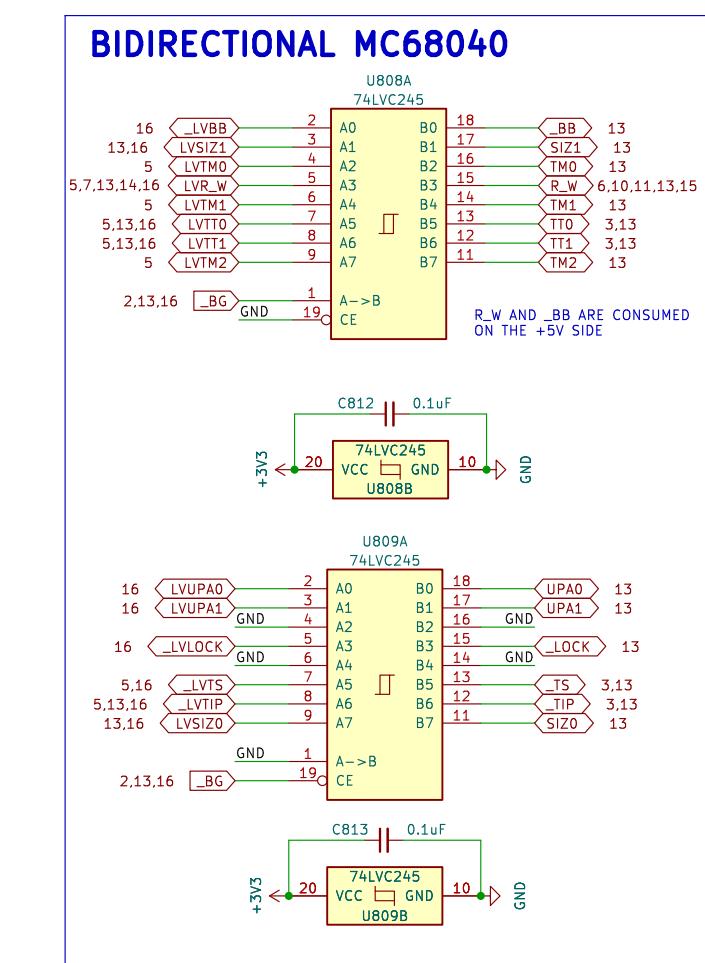
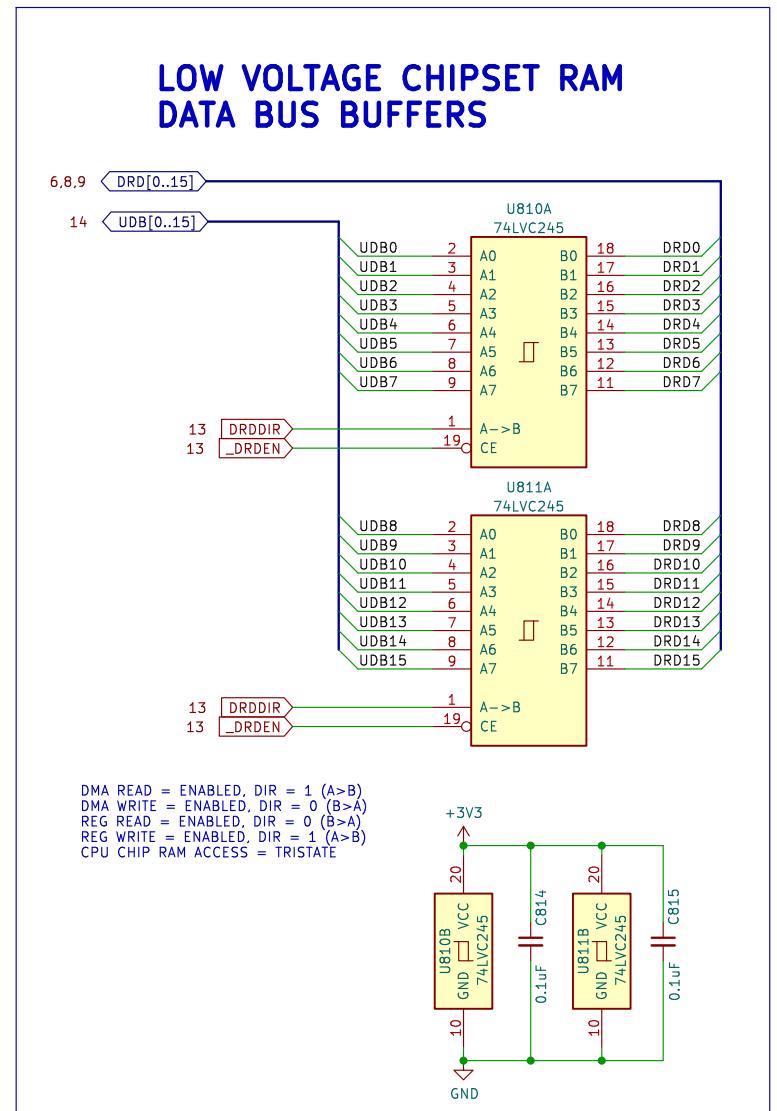
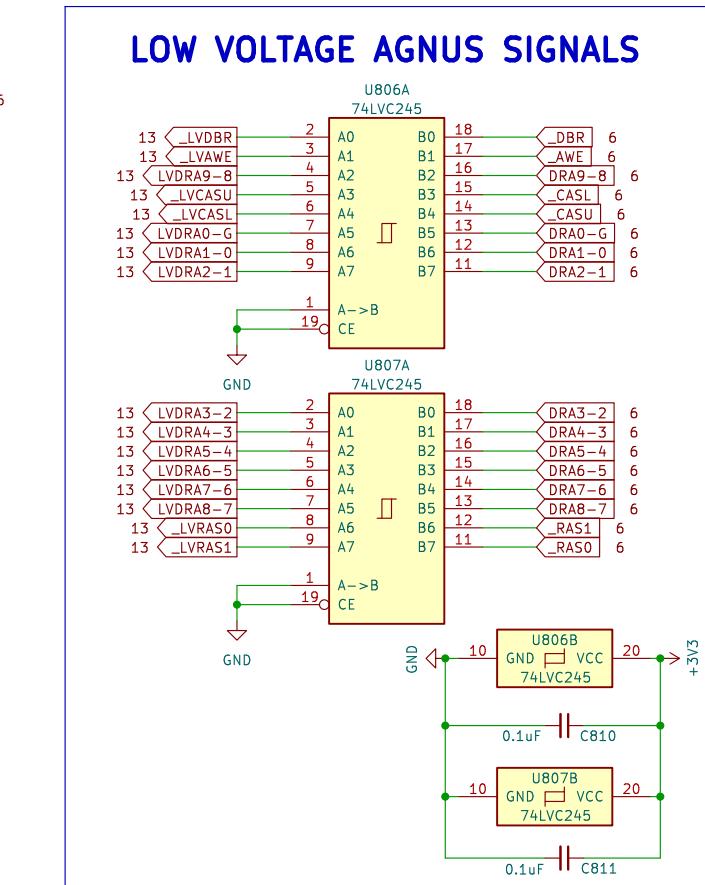
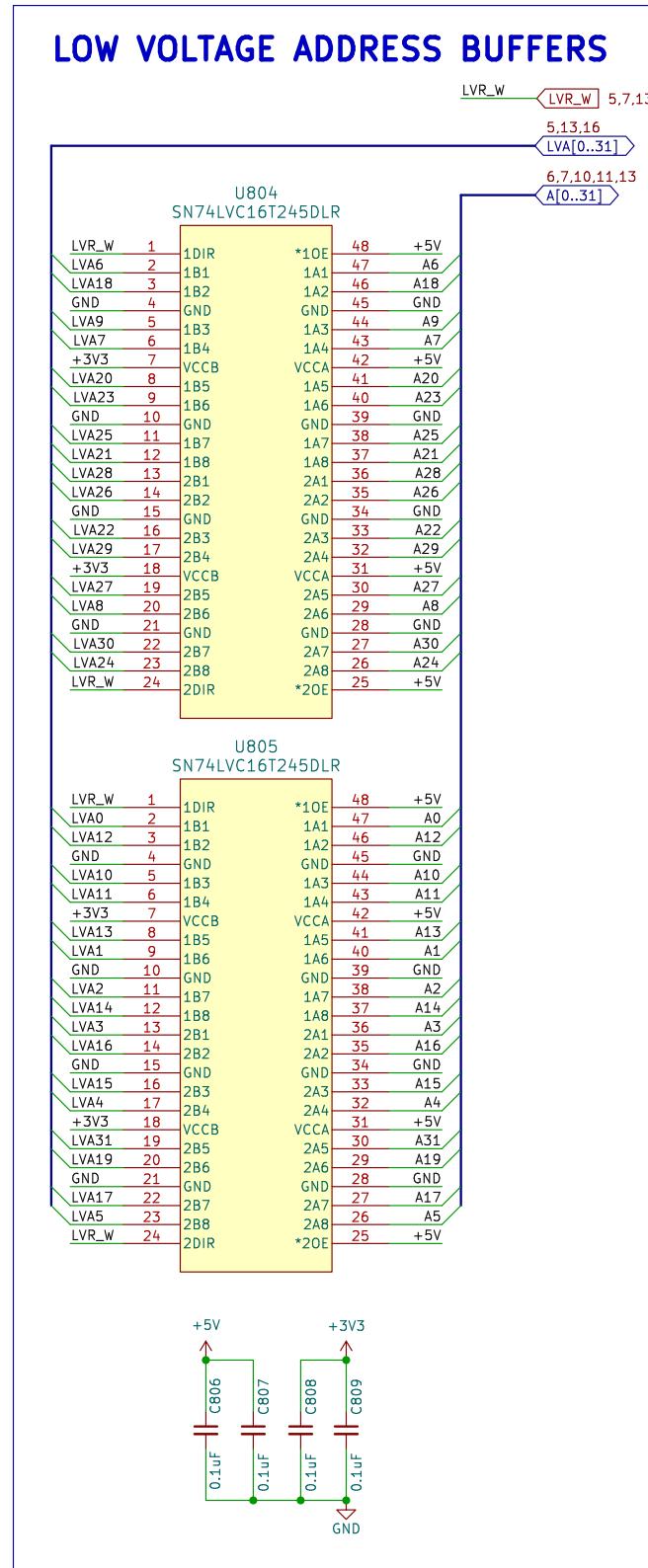
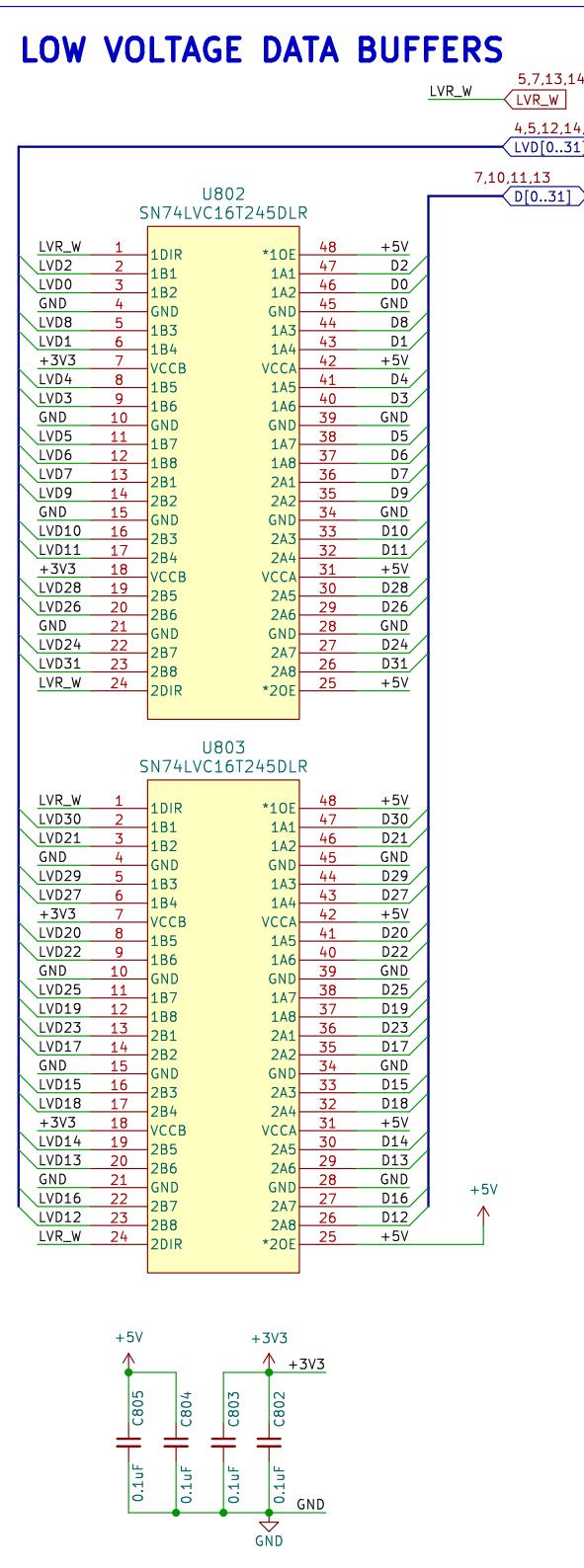
PCI BRIDGE

Sheet: /PCI Bridge/
File: pci-bridge.kicad_sch

Title: AMIGA PCI

Size: B Date: 2024-03-23
KiCad E.D.A. kicad 7.0.11~7.0.11~ubuntu23.10.1

Rev: 2.0
Id: 16/17



MC68040 LEVEL SHIFT

Sheet: /MC68040_Level_Shift/
File: mc68040_level_shift.kicad_sch

Title: AMIGA PCI

Size: B Date: 2024-03-

KiCad E.D.A. kicad 7.0.11-7.0.11~ubuntu23.10.1

Id: 17/17