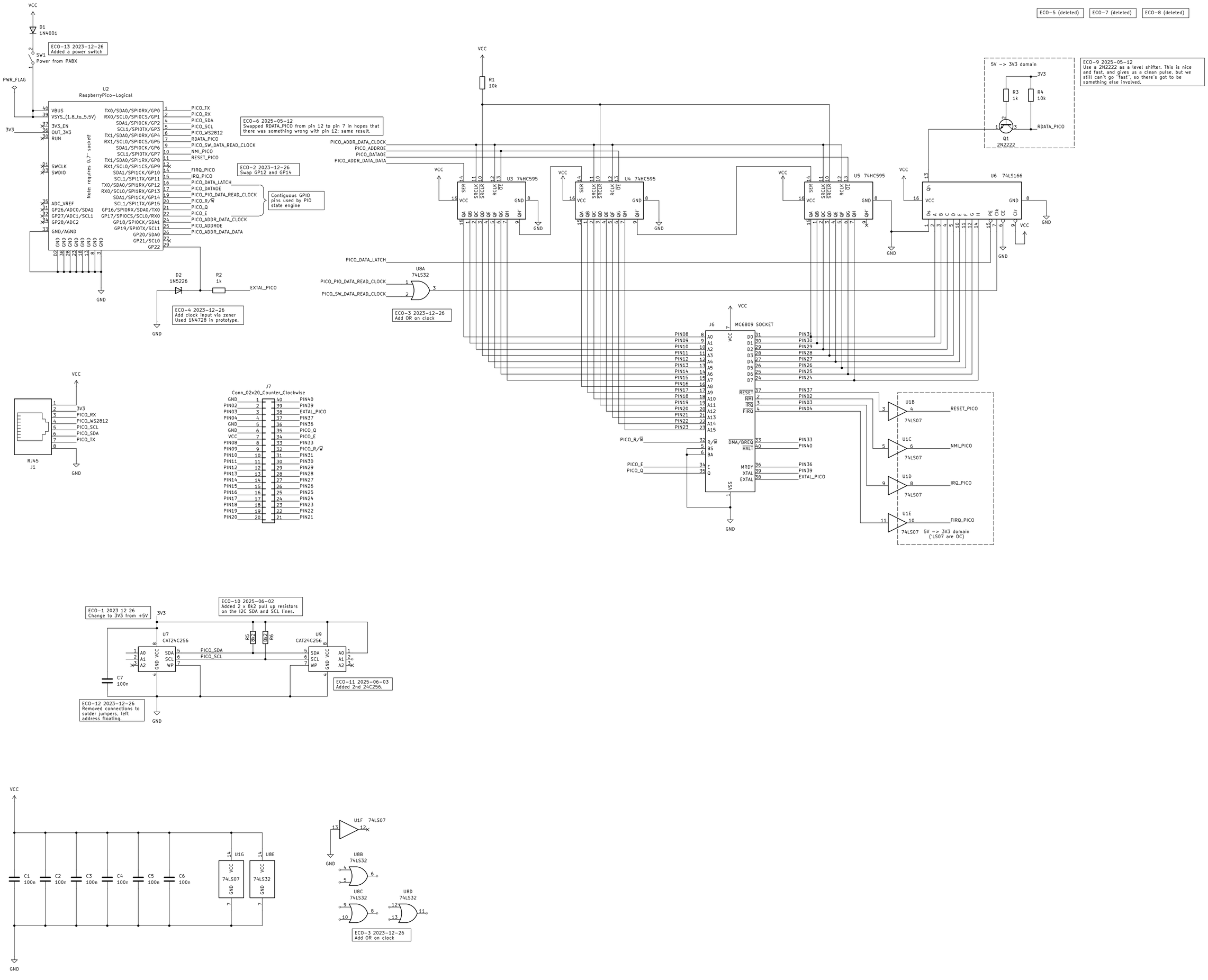
ECO-5 (deleted)
ECO-7 (deleted)
ECO-8 (deleted)
ECO-13 2023-12-26
Added a power switch
Power from PABX
ECO-6 2025-05-12
Swapped RDATA_PICO from pin 12 to pin 7 in hopes that there was something wrong with pin 12; same result.
ECO-2 2023-12-26
Swap GP12 and GP14
Contiguous GPIO pins used by PIO state engine
ECO-4 2023-12-26
Add clock input via zener
Used 1N4728 in prototype.
ECO-3 2023-12-26
Add OR on clock
5V -> 3V3 domain
ECO-9 2025-05-12
Use a 2N2222 as a level shifter. This is nice and fast, and gives us a clean pulse, but we still can't go "fast", so there's got to be something else involved.
U2
RaspberryPico-Logical
Note: requires 0.7" socket!
U3 74HC595
U4 74HC595
U5 74HC595
U6 74LS166
U8A
74LS32
J6
MC6809 SOCKET
U1B
U1C
U1D
U1E
74LS07
5V -> 3V3 domain
('LS07 are OC)
J1
RJ45
J7
Conn_02x20_Counter_Clockwise
ECO-1 2023 12 26
Change to 3V3 from +5V
ECO-10 2025-06-02
Added 2 x 8k2 pull up resistors on the I2C SDA and SCL lines.
U7
CAT24C256
U9
CAT24C256
ECO-11 2025-06-03
Added 2nd 24C256.
ECO-12 2023-12-26
Removed connections to solder jumpers, left address floating.
U1G
U8E
74LS07
74LS32
U1F 74LS07
U8B
74LS32
U8C
74LS32
U8D
74LS32
ECO-3 2023-12-26
Add OR on clock