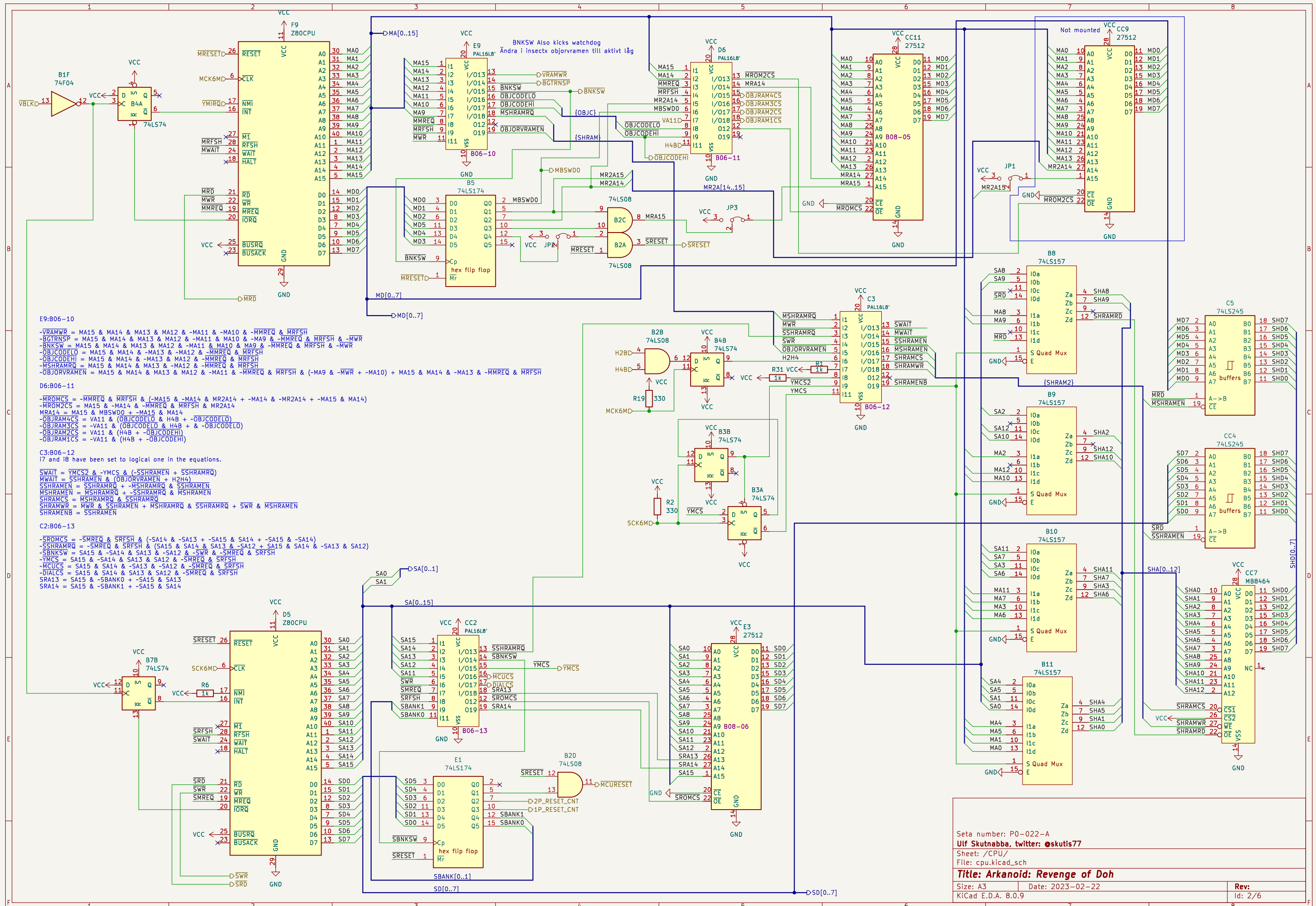
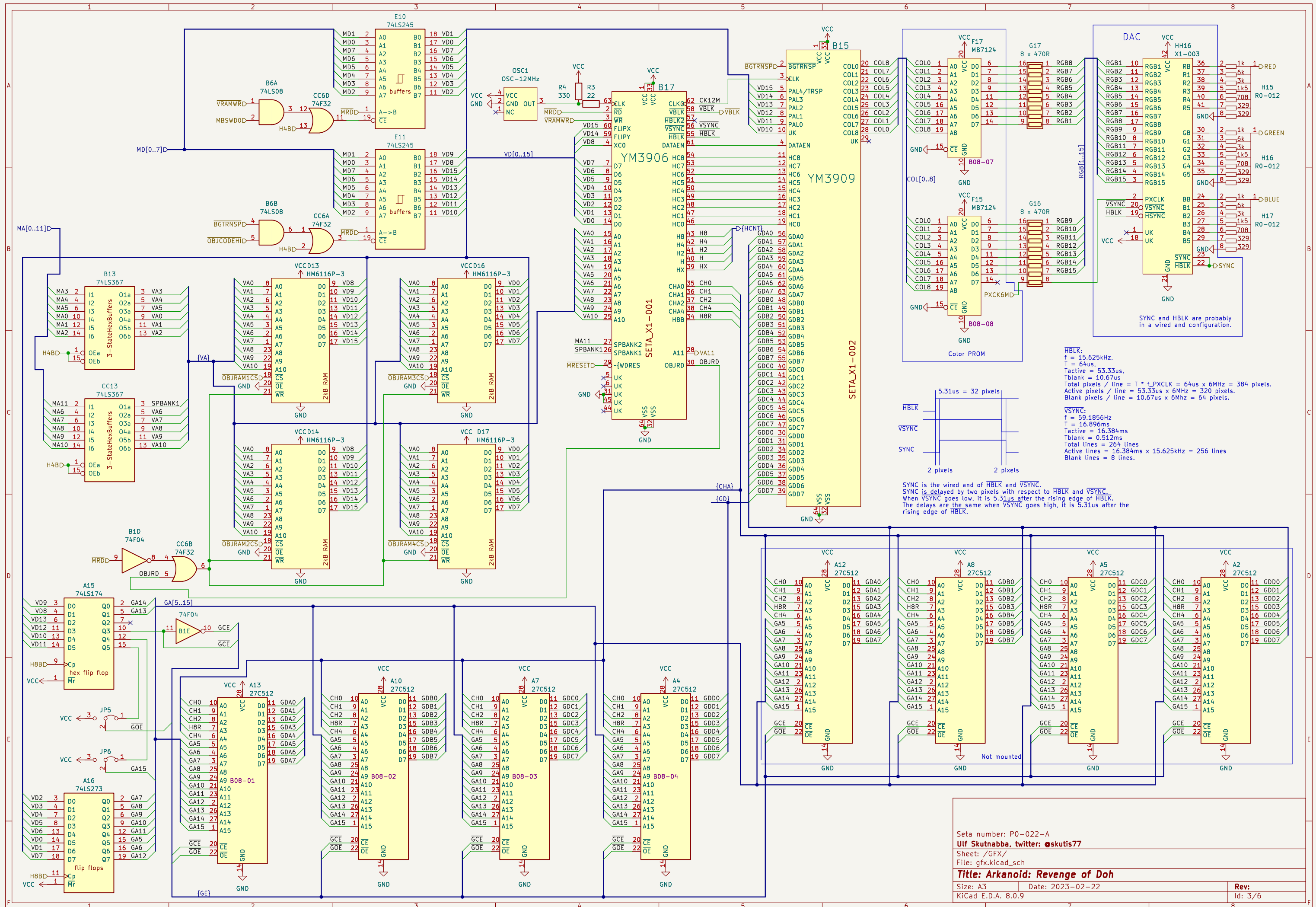


Seta number: P0-022-A  
Ulf Skutnabba, twitter: @skutis77  
Sheet: /  
File: arknoid2.kicad\_sch

**Title: Arkanoid: Revenge of Doh**

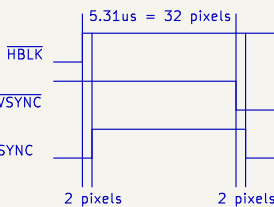
Size: A3	Date: 2023-02-22	Rev:
KiCad E.D.A. 8.0.9	Id: 1/6	





HBCLK:  
f = 15.625kHz,  
T = 64us,  
Tactive = 53.33us,  
Tblank = 10.67us  
Total pixels / line = T \* f.PXCLK = 64us x 6MHz = 384 pixels.  
Active pixels / line = 53.33us x 6MHz = 320 pixels.  
Blank pixels / line = 10.67us x 6MHz = 64 pixels.

VSYN:  
f = 59.1856Hz  
T = 16.896ms  
Tactive = 16.384ms  
Tblank = 0.512ms  
Total lines = 264 lines  
Active lines = 16.384ms x 15.625kHz = 256 lines  
Blank lines = 8 lines.



SYNC is the wired and of HBLK and VSYNC.  
SYNC is delayed by two pixels with respect to HBLK and VSYNC.  
When VSYNC goes low, it is 5.31us after the rising edge of HBLK.  
The delays are the same when VSYNC goes high, it is 5.31us after the rising edge of HBLK.

Seta number: P0-022-A  
Ulf Skutnabba, twitter: @skutis77

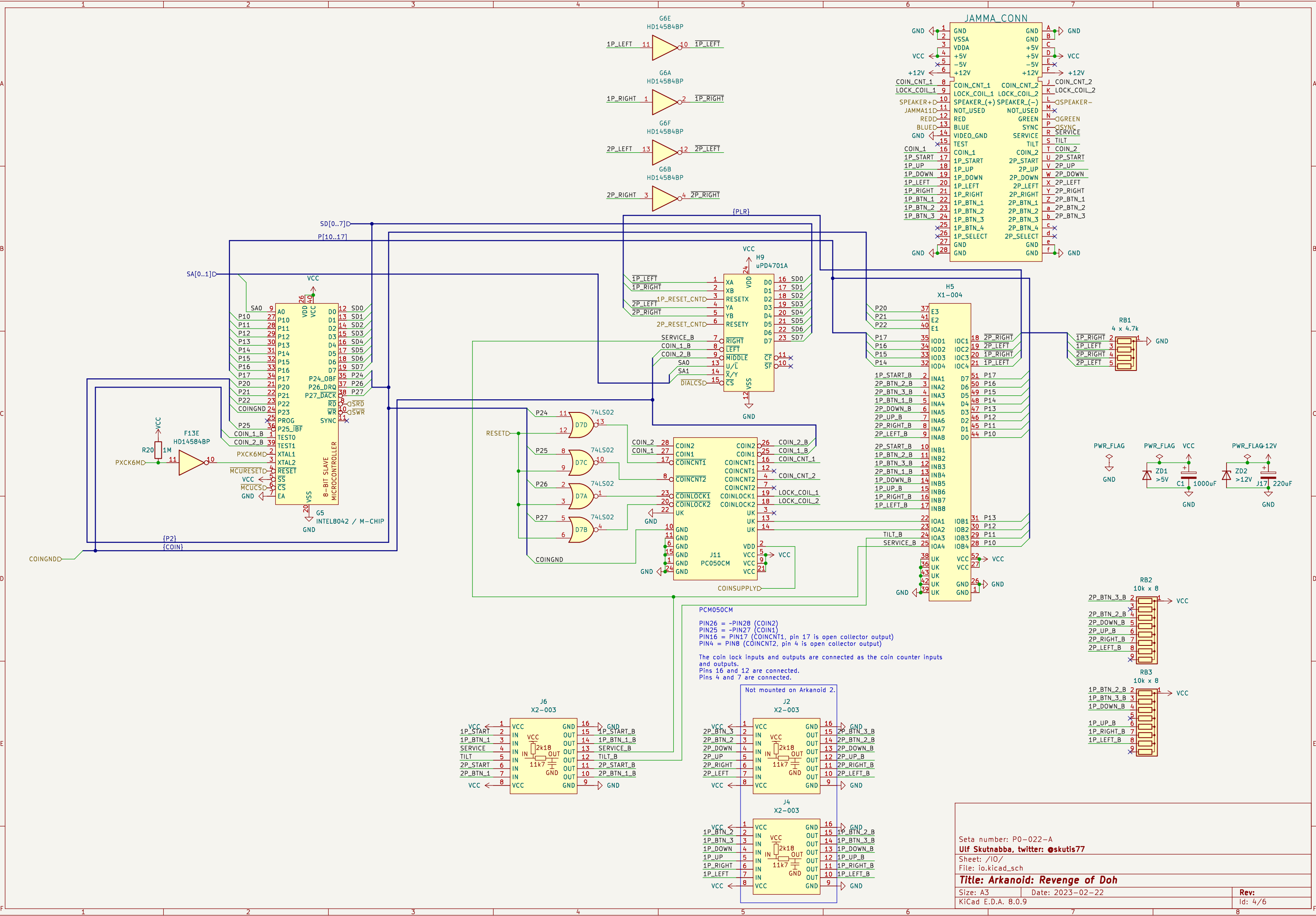
Sheet: /GFX/  
File: gfx.kicad\_sch

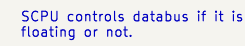
Title: Arkanoid: Revenge of Doh

Size: A3 Date: 2023-02-22

KiCad E.D.A. 8.0.9 Id: 3/6

Rev:







Clocks

