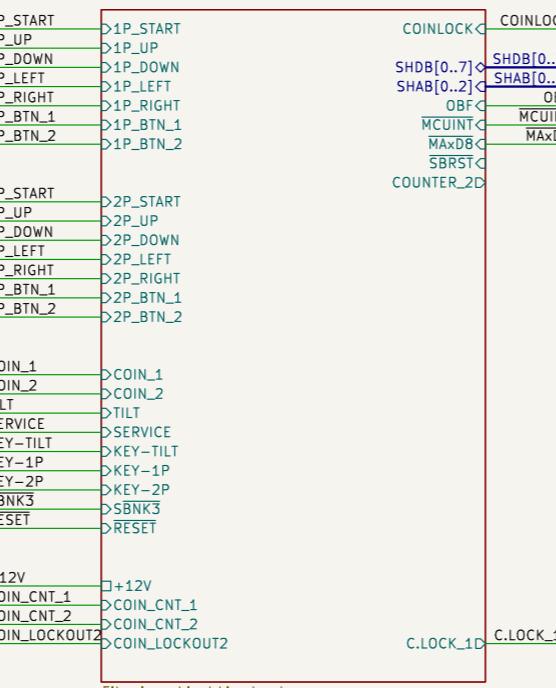
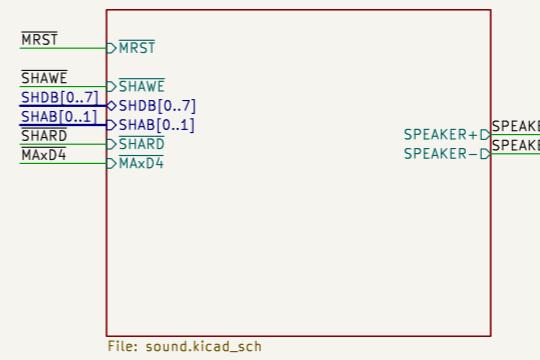


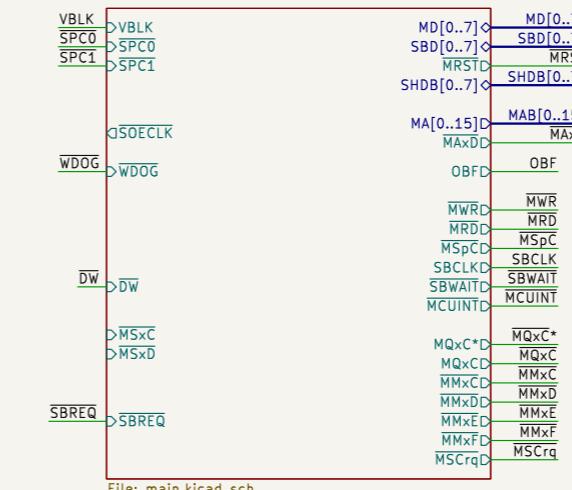
## Cabinet



## Sound



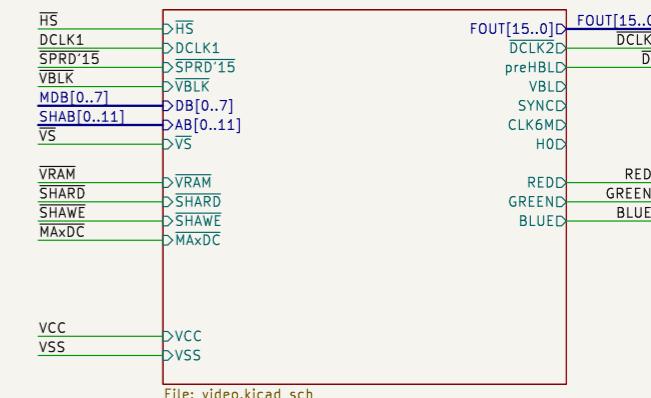
## Main



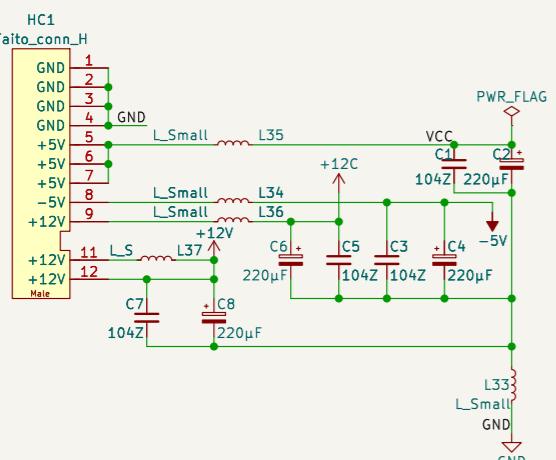
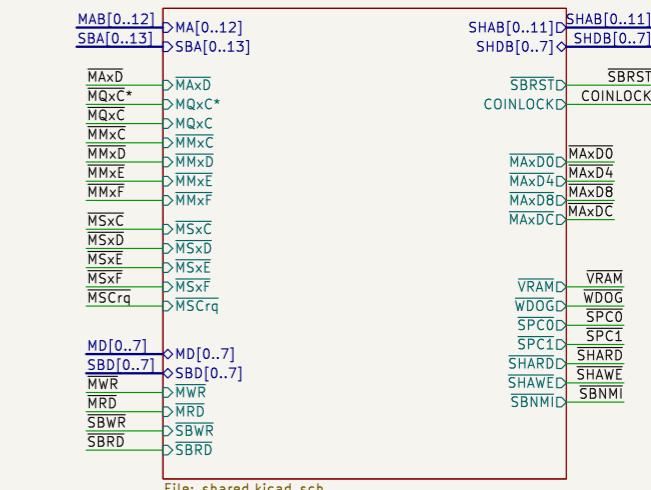
## Sub



## Video



## Shared



José Tejada  
www.patreon.com/jotego  
JOTEGO

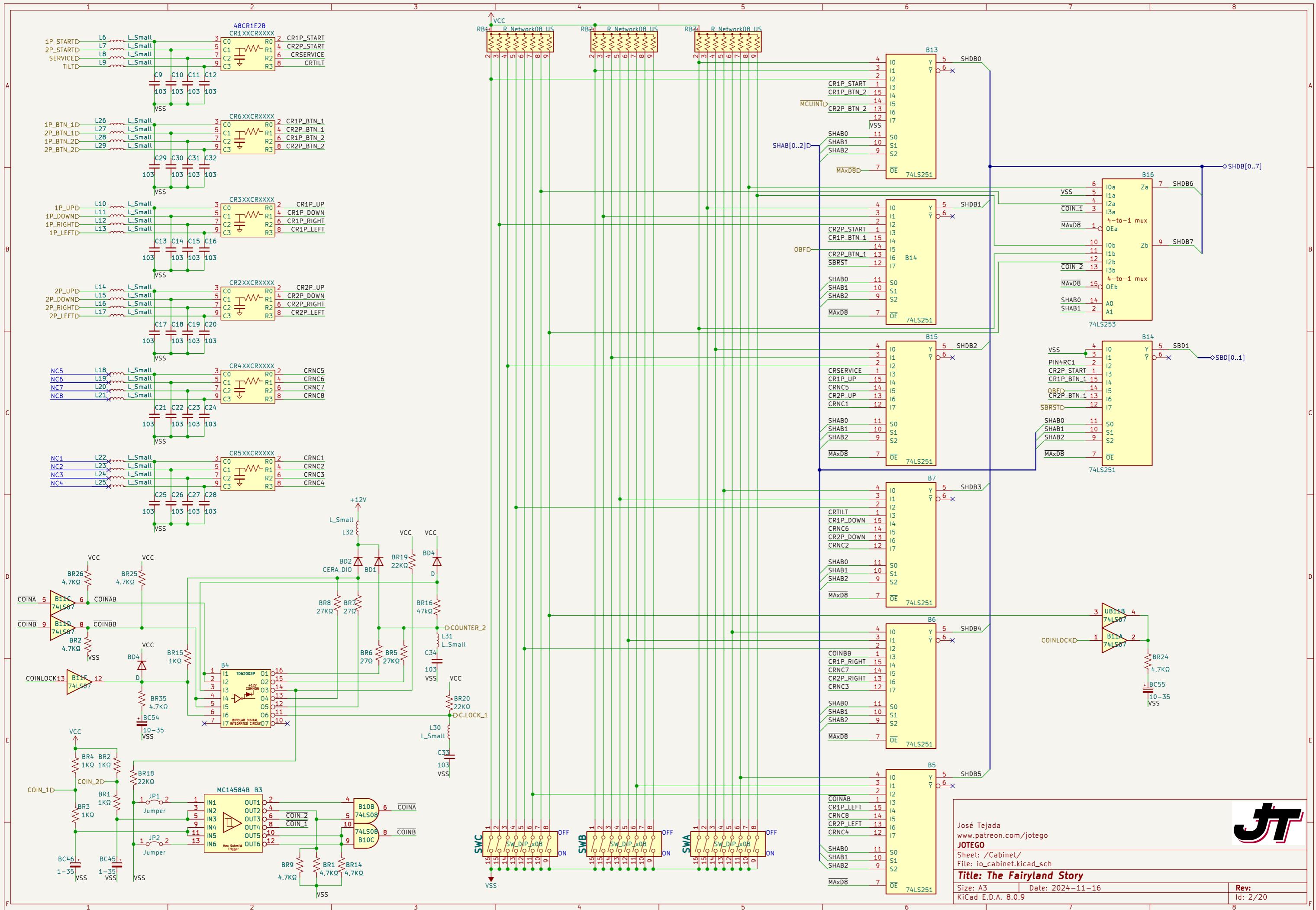


Sheet: /  
File: fairyland.kicad\_sch

**Title: The Fairyland Story**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

Rev: 1/10



A

A

B

B

C

C

D

D

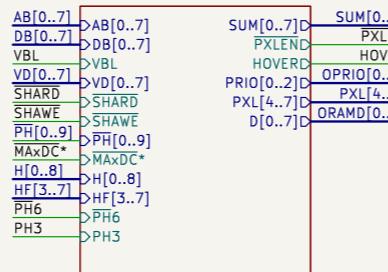
E

E

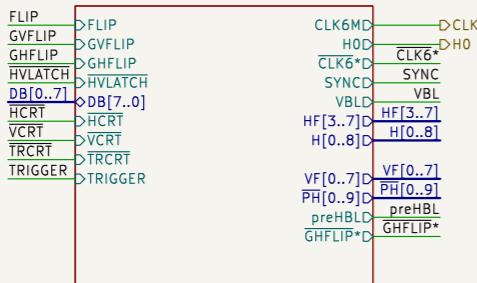
F

F

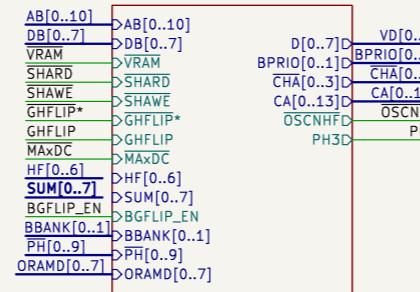
### Object RAM



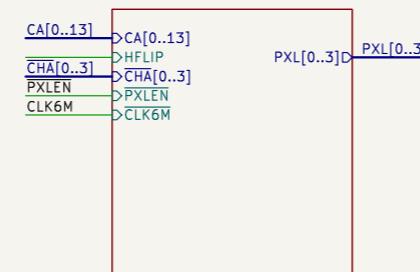
### Timing



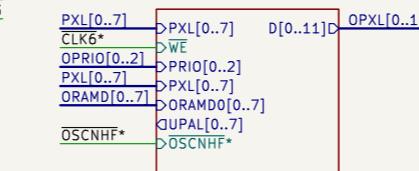
### Video RAM



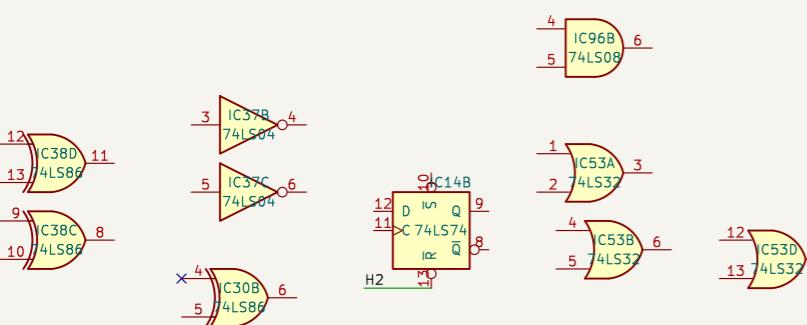
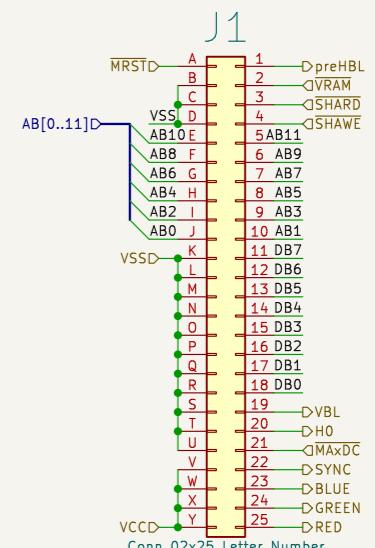
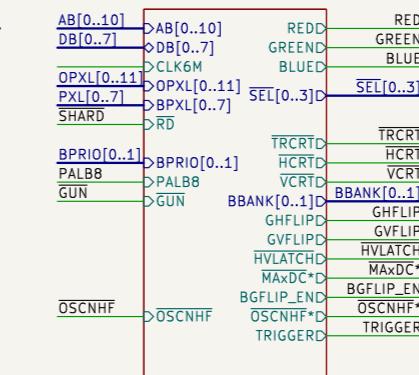
### Tile ROM

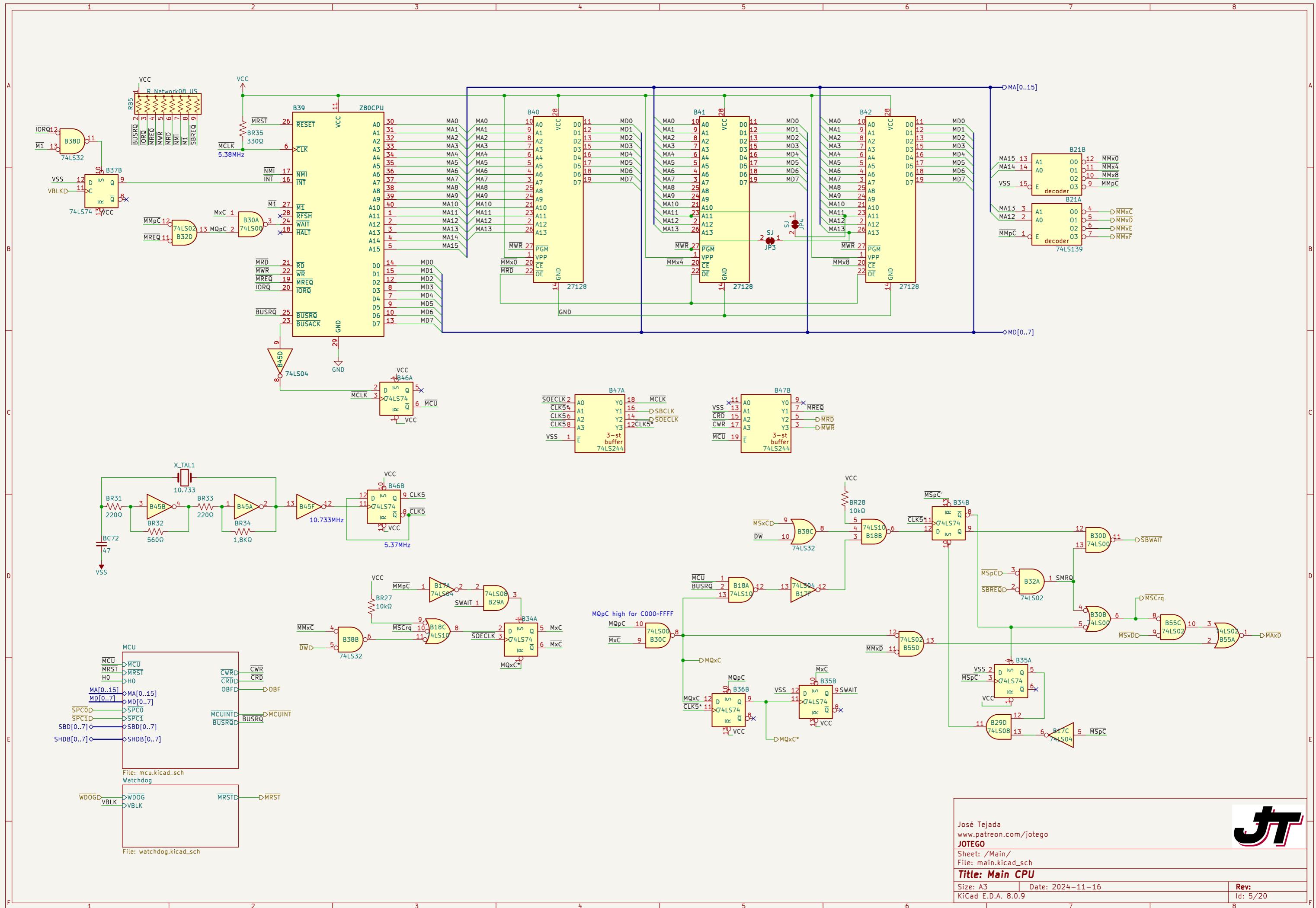


### Line buffer



### Palette







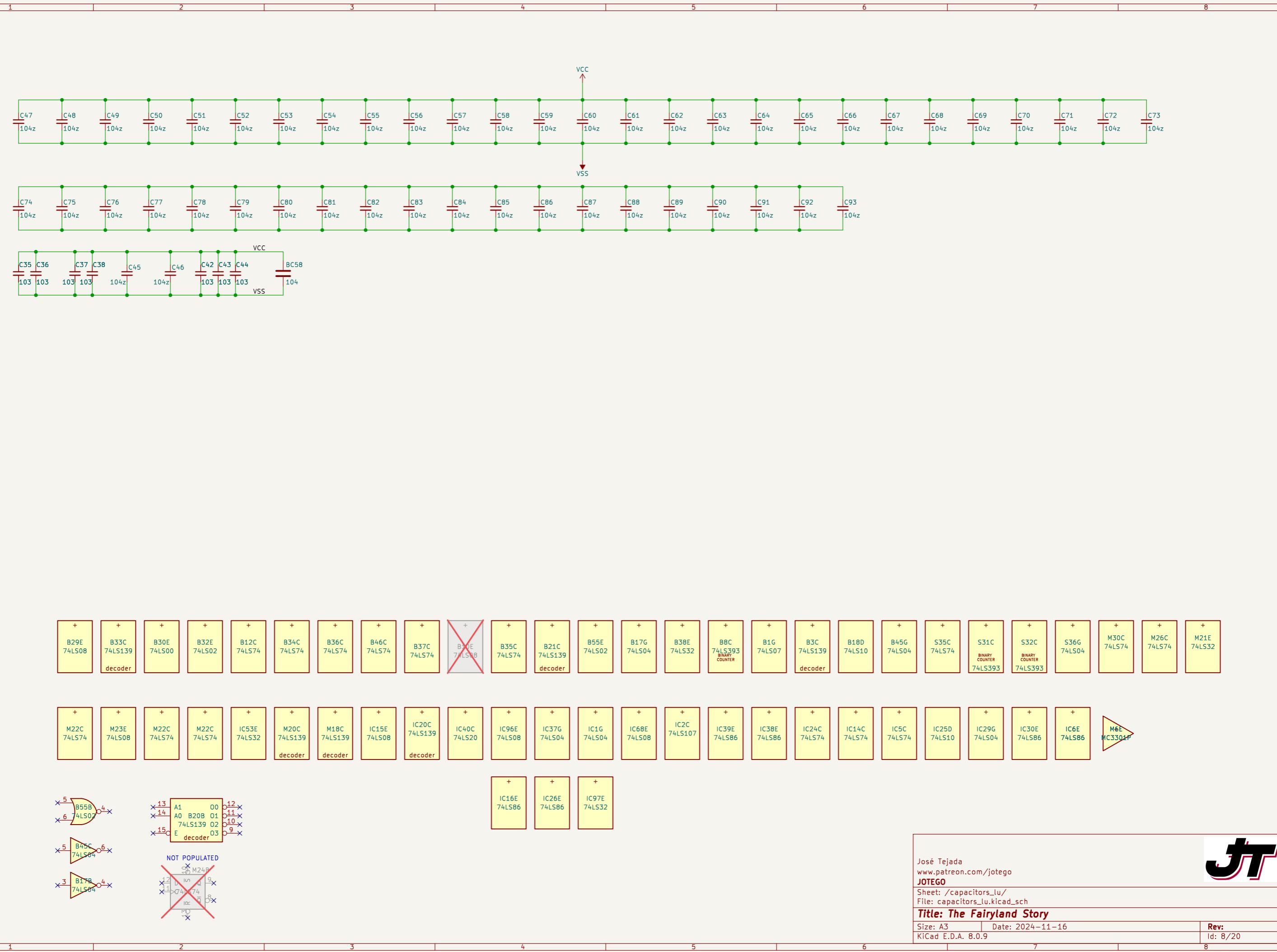
José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

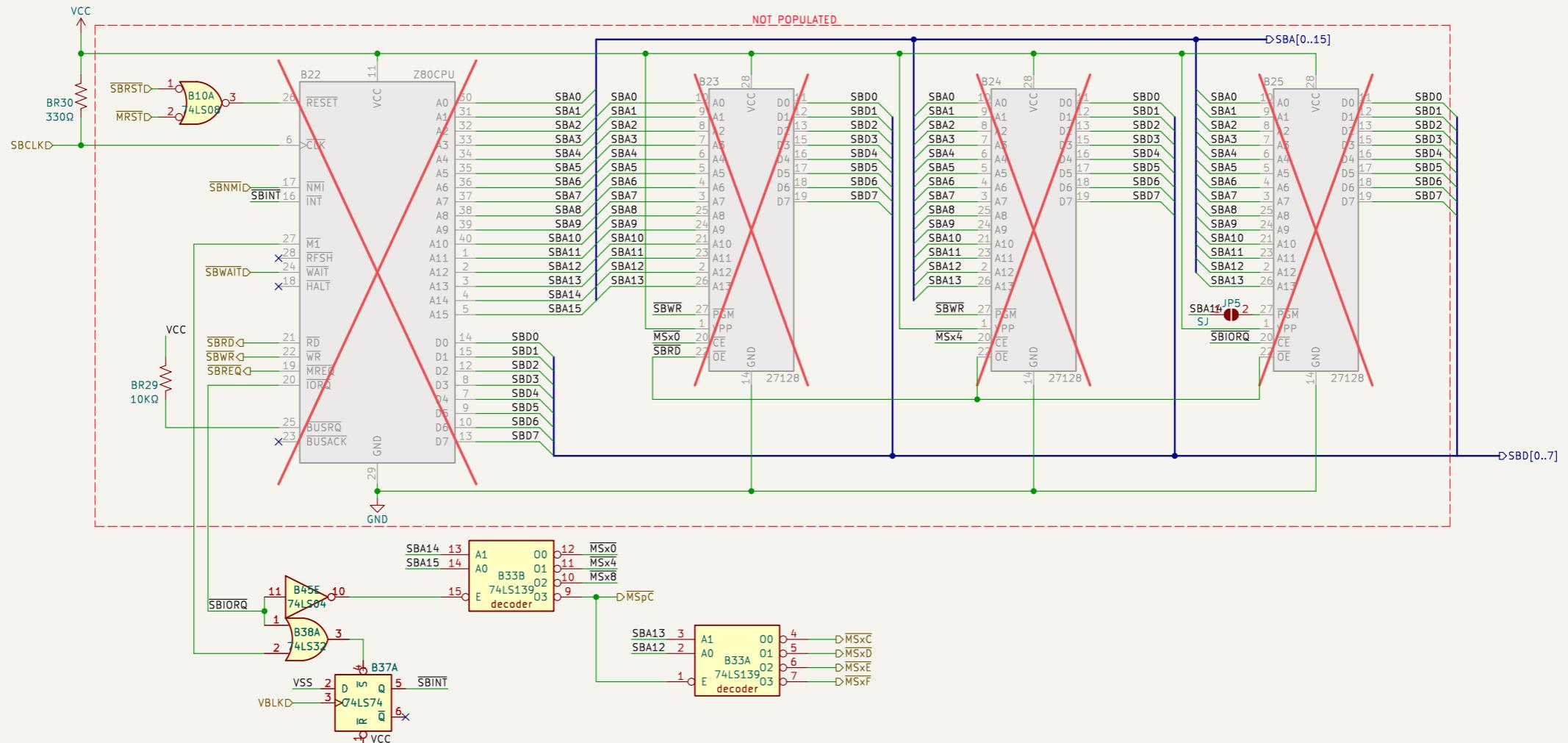
Sheet: /Sound/  
 File: sound.kicad\_sch

**Title: Sound Board**

Size: A3 | Date: 2024-11-16  
 KiCad E.D.A. 8.0.9

Rev:  
 Id: 7/20





José Tejada  
[www.patreon.com/jotego](https://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Sub/

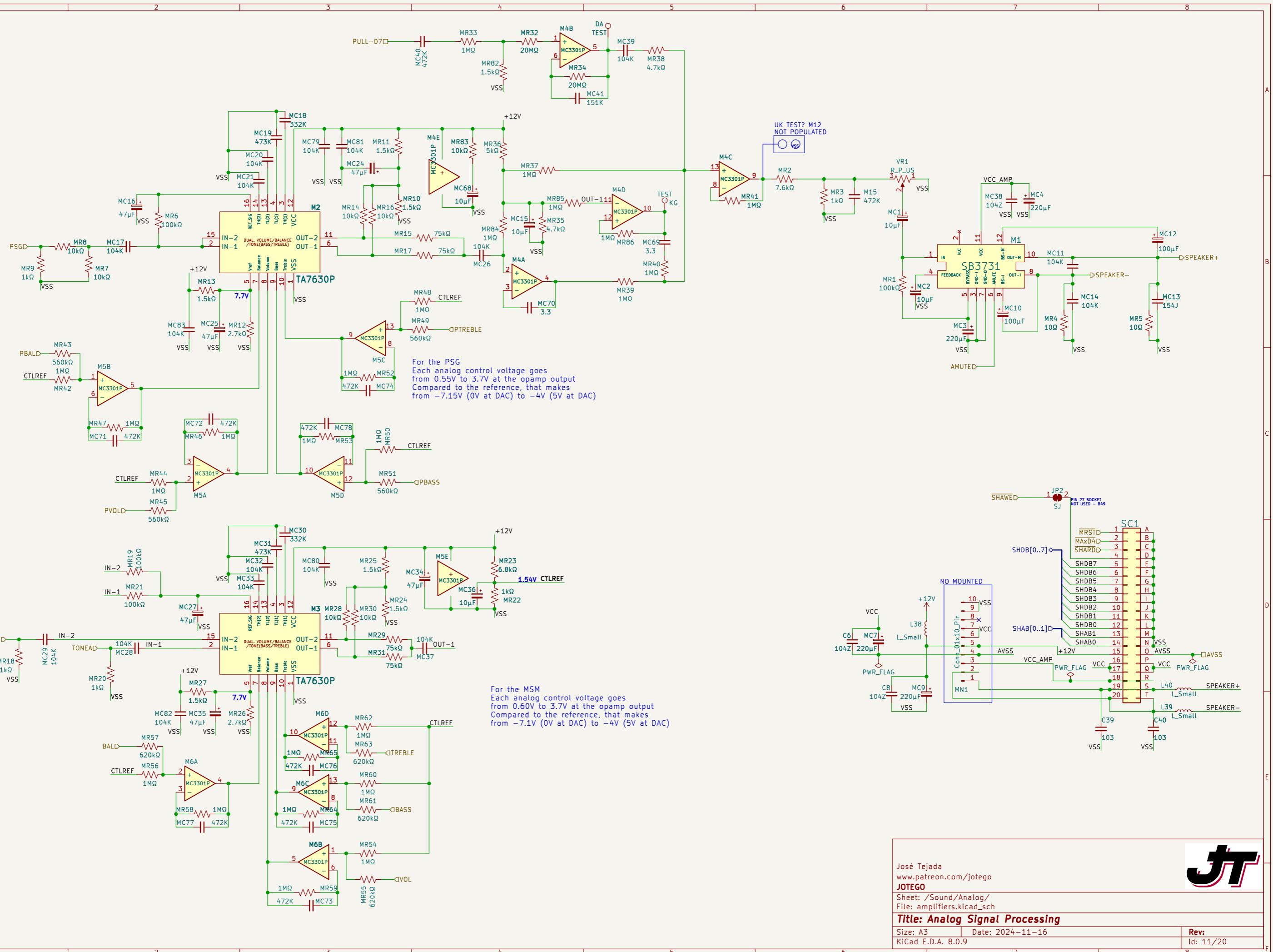
File: sub\_main.kicad\_sch

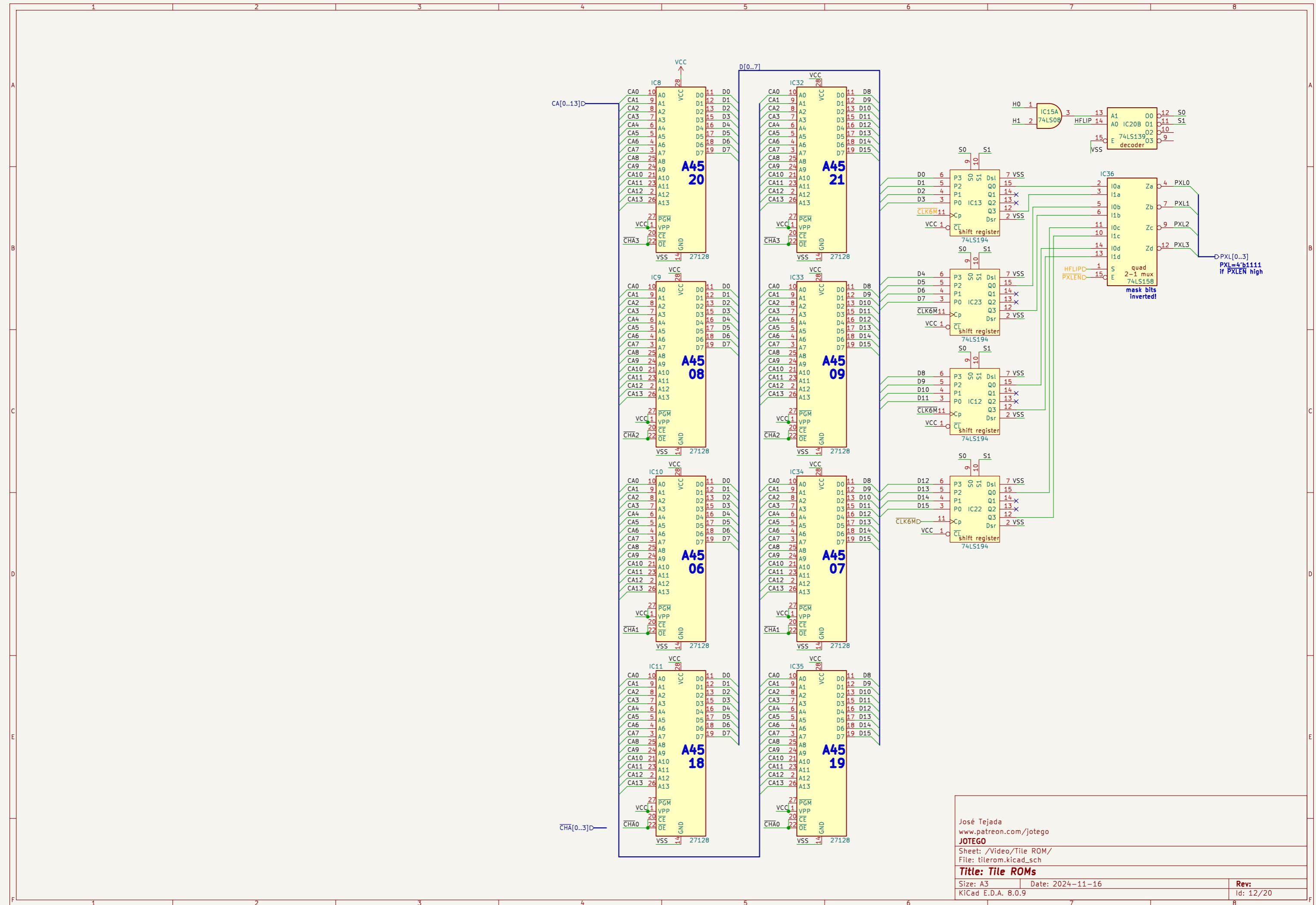
## Title: Subsidiary CPU

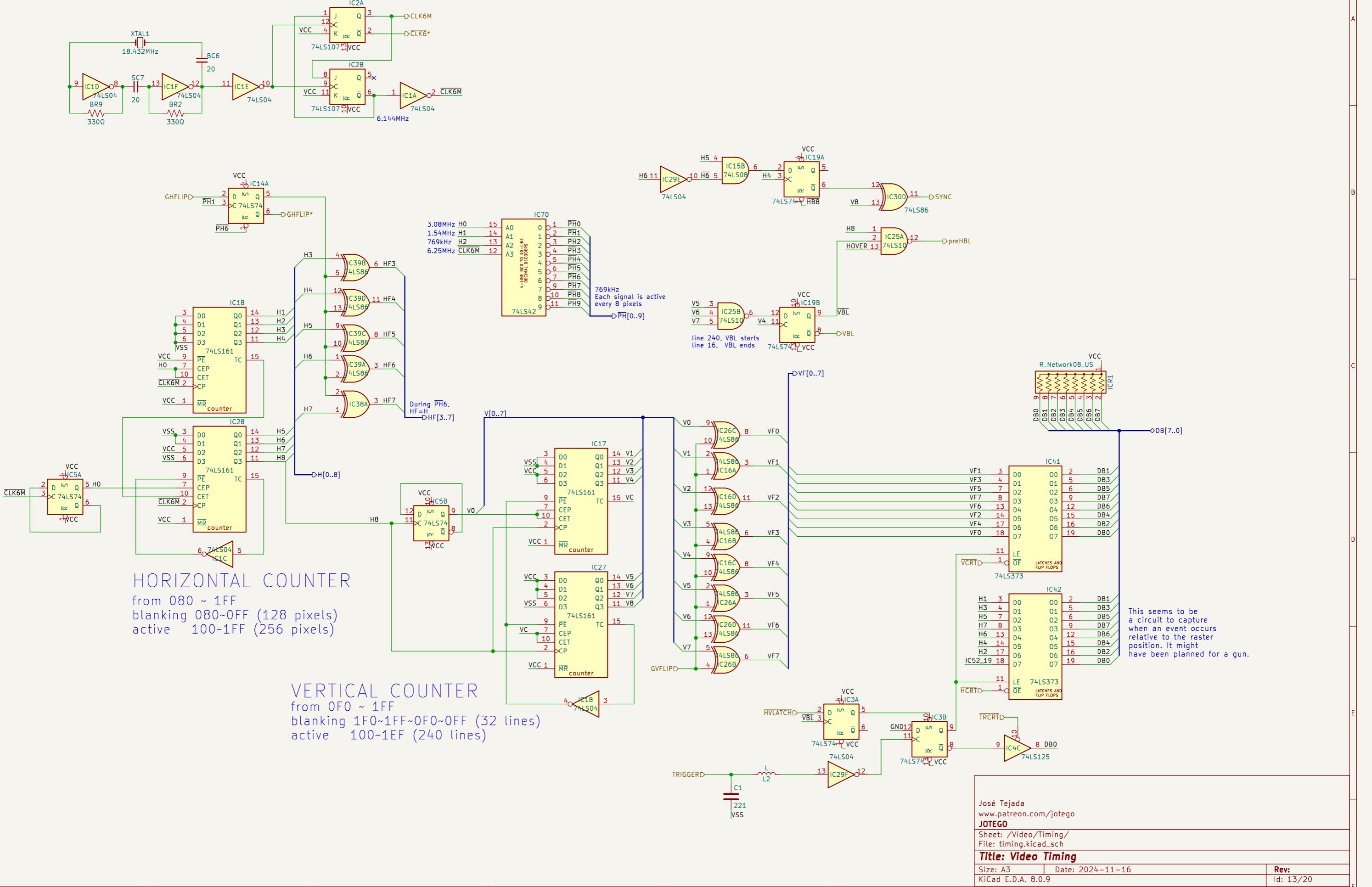
Size: A3 Date: 2024-11-16  
KiCad EDA 8.0.8

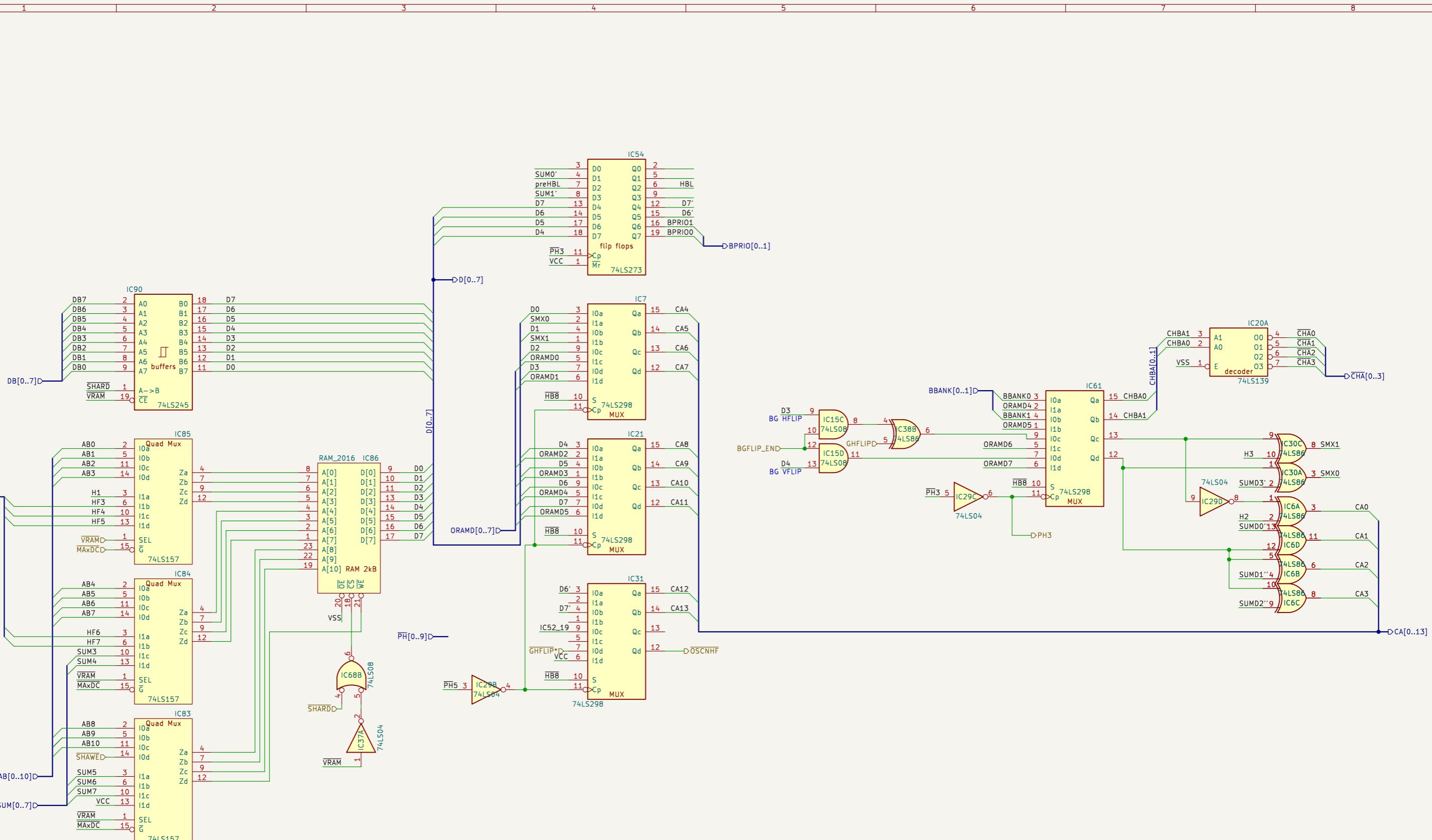
KICad E.D.A. 8.0.9

Digitized by srujanika@gmail.com









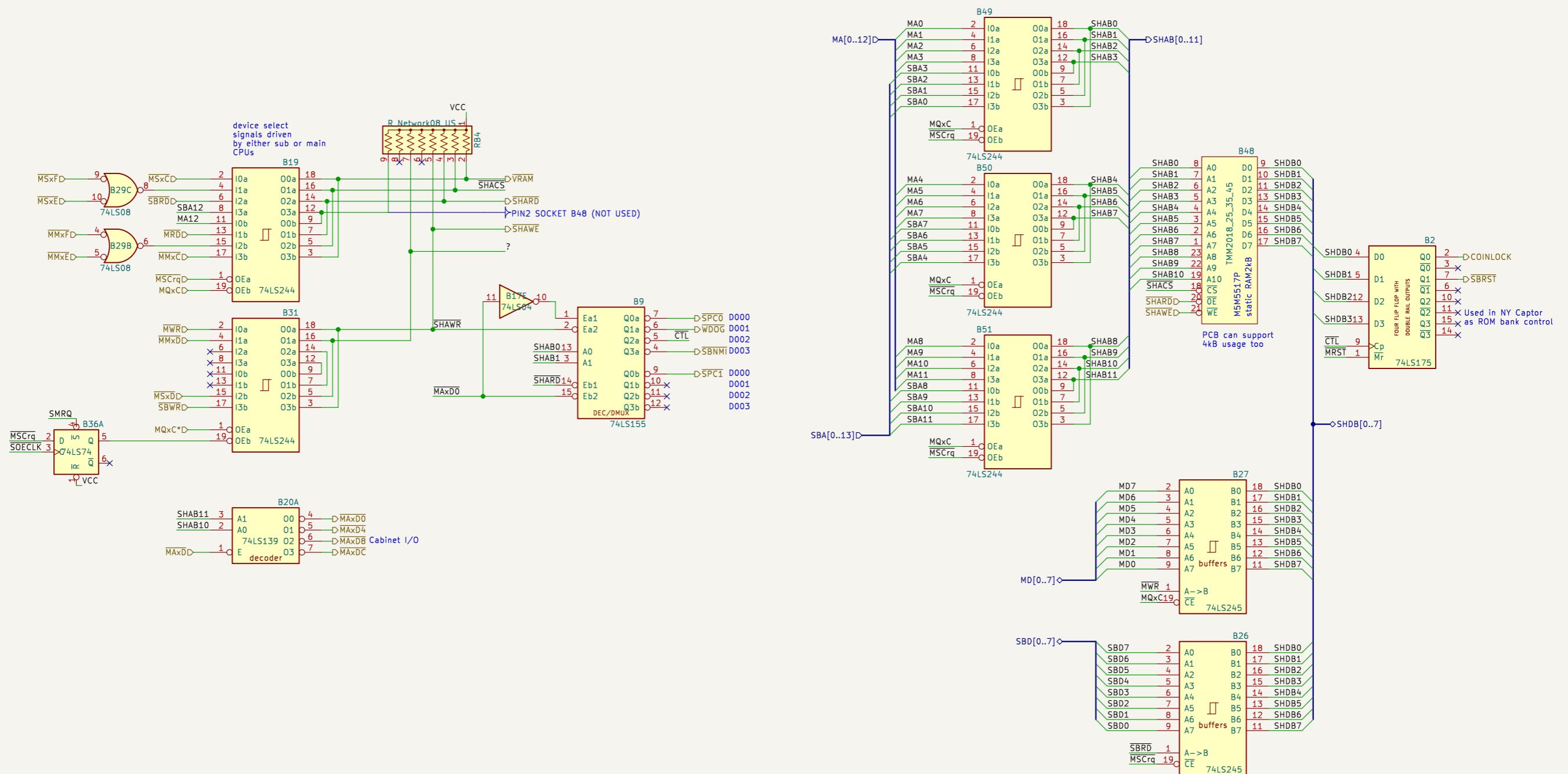
José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Video/Video RAM/  
File: vram.kicad\_sch

**Title: Background Video RAM**

Size: A3 | Date: 2024-11-16  
KiCad E.D.A. 8.0.9

Rev: 13/20





The MCU can take control of the share bus by requesting the main CPU bus

The MCU can communicate with both CPUs via latches B52 and B53

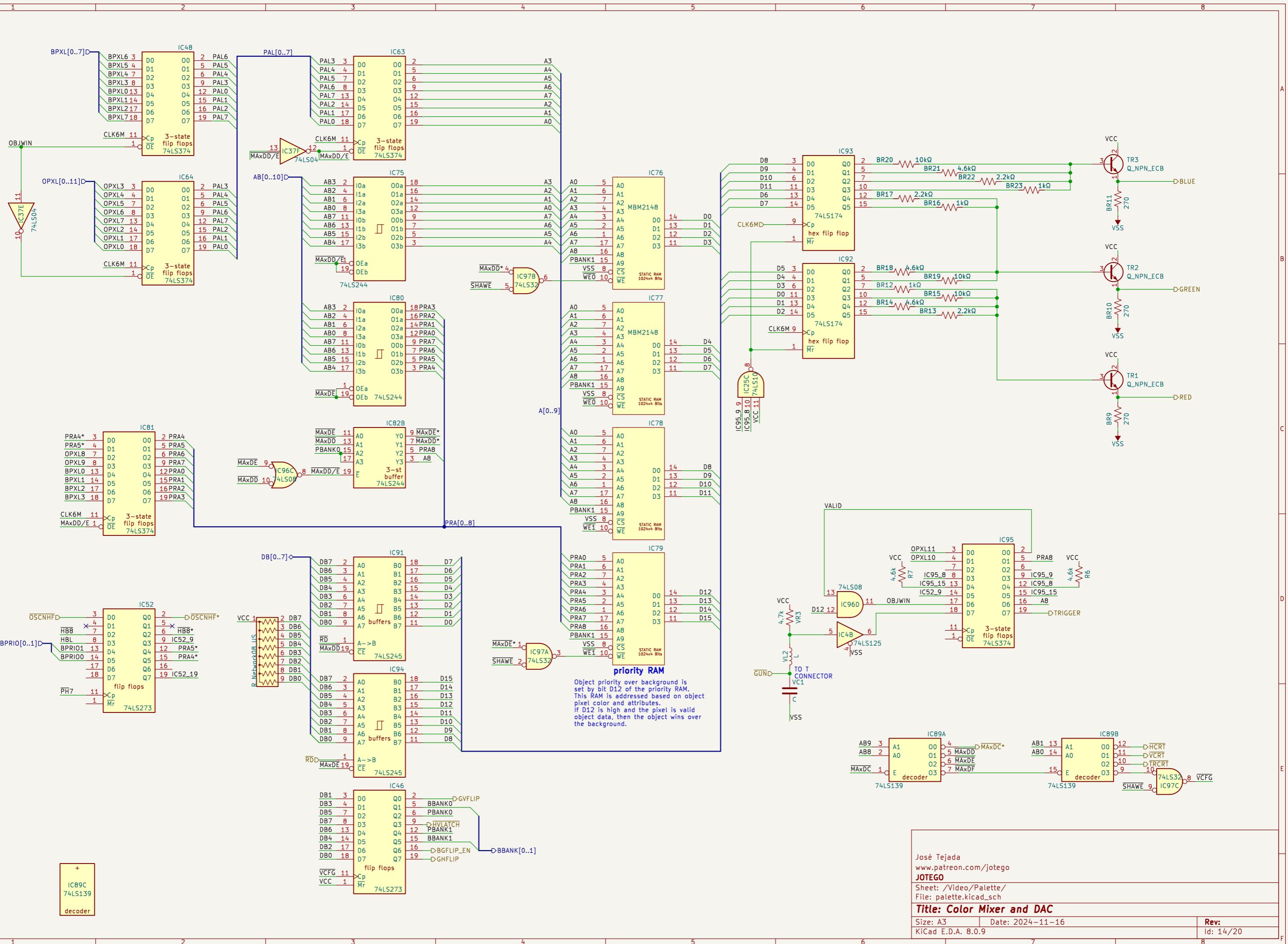
José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

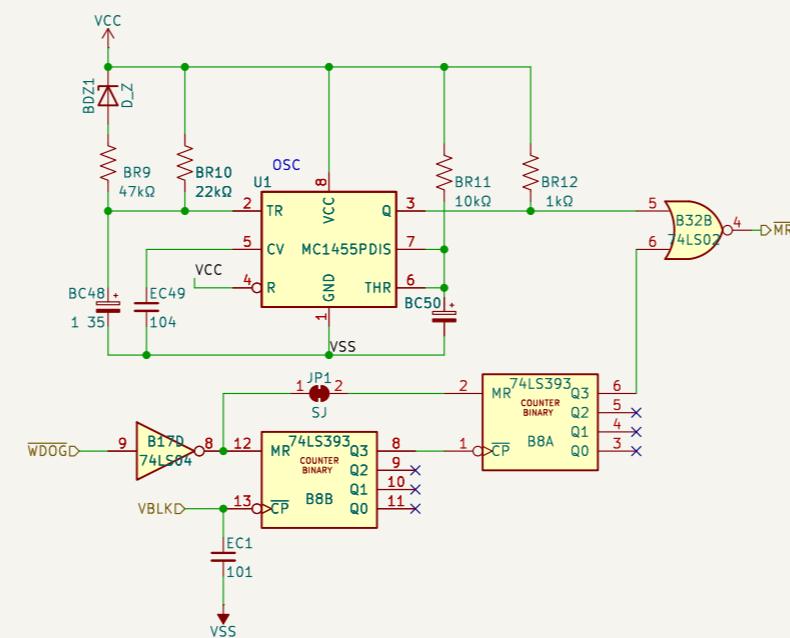
Sheet: /Main/MCU/  
File: mcu.kicad\_sch

**Title: MCU**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

Rev: Id: 14/20





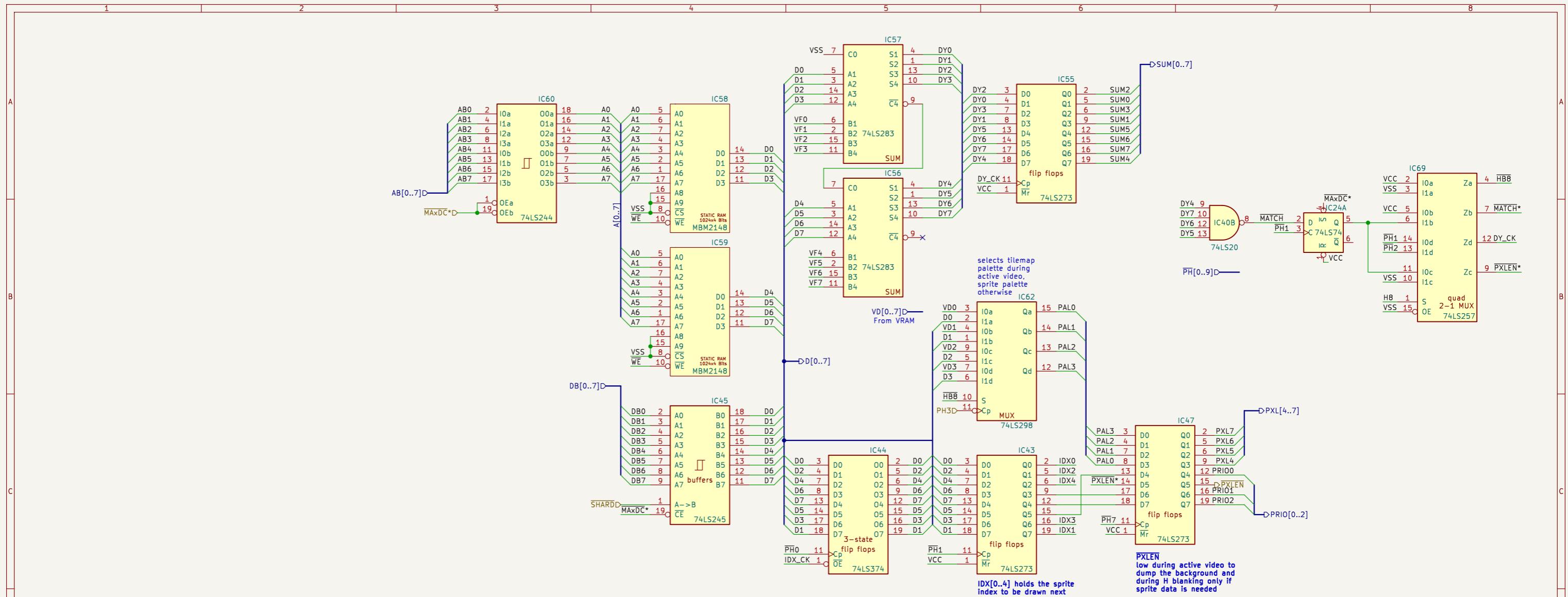
José Tejada  
[www.patreon.com/jotego](https://www.patreon.com/jotego)  
JOTEGO

Sheet: /Main/Watchdog/  
File: watchdog.kicad\_sch

**Title:**

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

**Rev:**  
Id: 15/20



Complex multiplexer driving  
the 256-byte memory because it holds  
three kinds of information  
00-7F: 4-byte sprite data (32 sprites)  
80-9F: sprite drawing order (bits 4:0) and sprite priority (bit 7)  
A0-BF: column scroll  
D0-DF: matched sprites for next line

José Tejada  
[www.patreon.com/jotego](https://www.patreon.com/jotego)

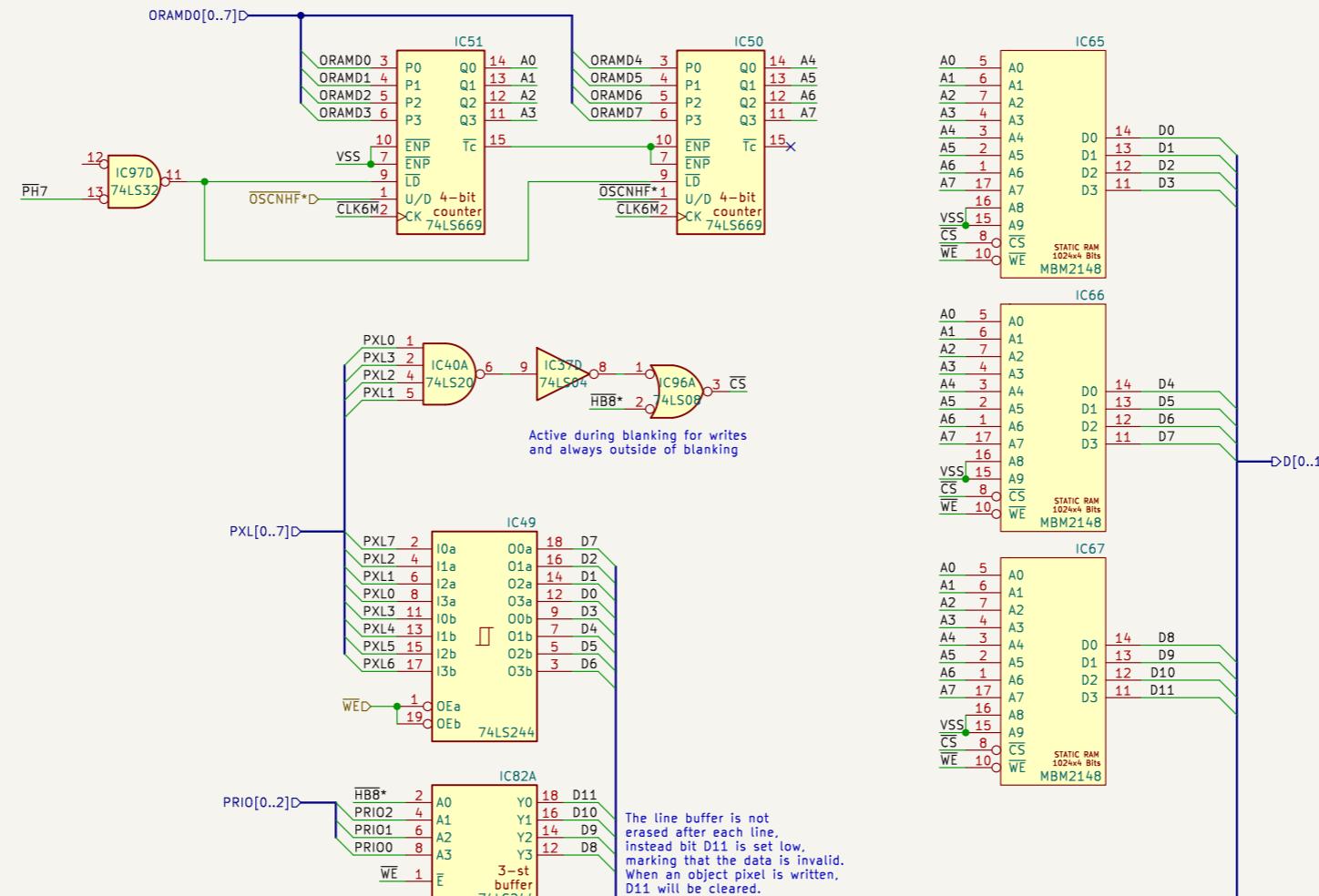
JOTEGO

## Title: Object Information

Size: A3 Date: 2024-11-16

KiCad E.D.A. 8.0.9

1 / 1



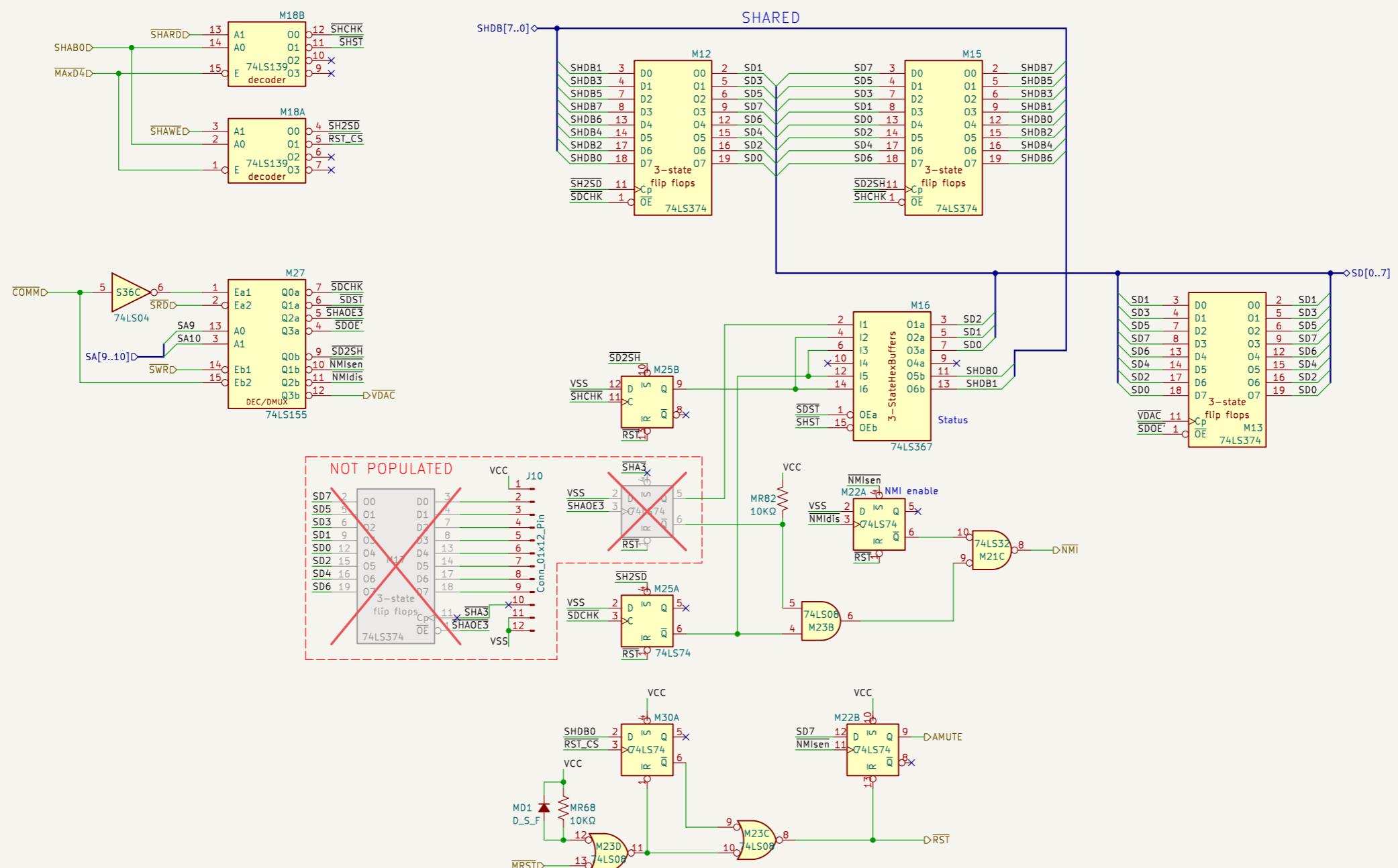
José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Video/Line buffer/  
File: linebuf.kicad\_sch

**Title: Single Line Video Buffer**

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.9	Rev:

Id: 17/20
-----------



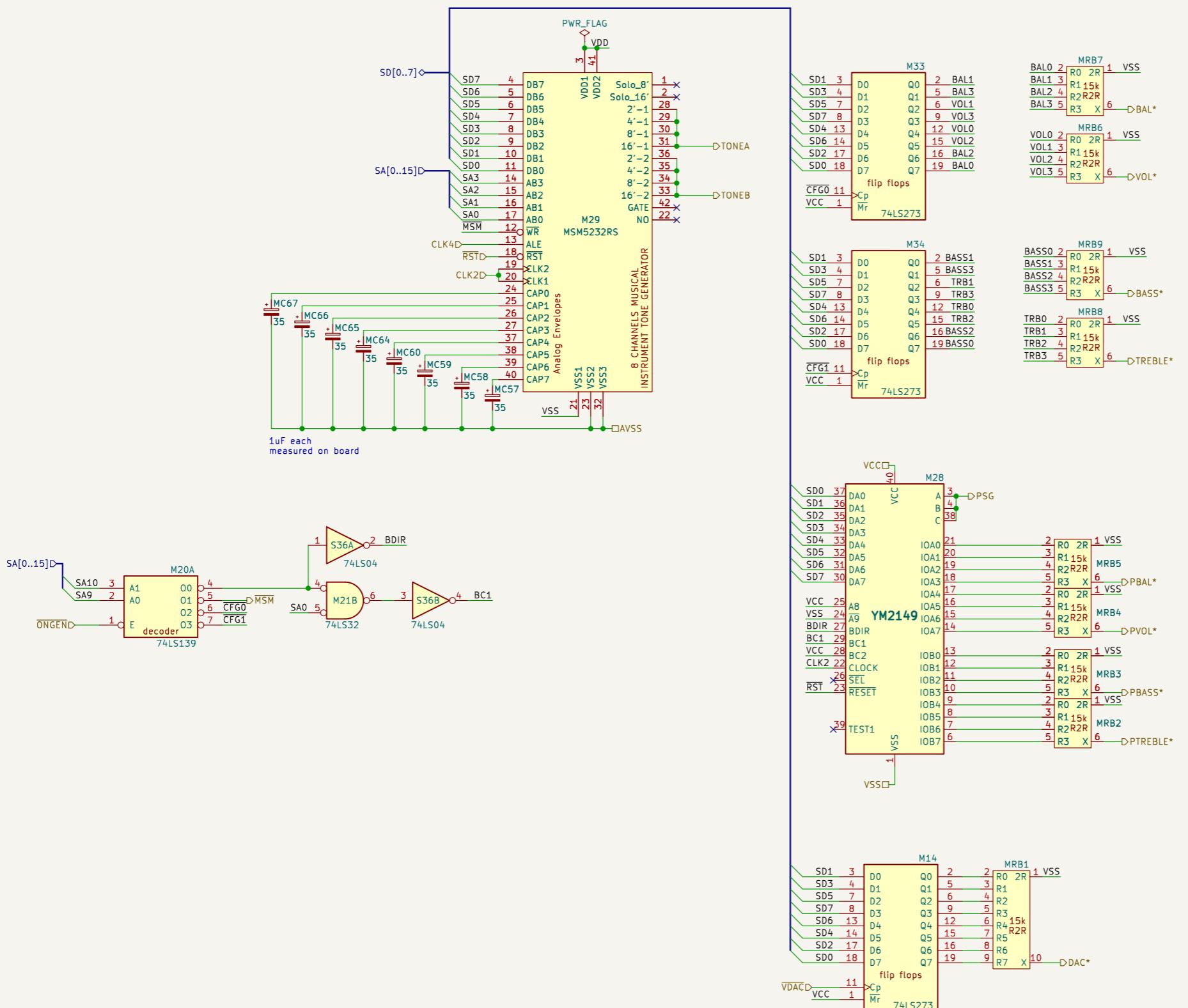
José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Sound/Latches/  
File: latches.kicad\_sch

**Title: Communication Latches**

Size: A3 | Date: 2024-11-16  
KiCad E.D.A. 8.0.9

Rev:  
Id: 18/20



José Tejada  
[www.patreon.com/jotego](https://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Sound/Sound Generators/  
File: ogen.kicad\_sch

## Title: Sound Generators

Size: A3 Date: 2024-11-16  
KiCad E.D.A. 8.0.9

7

A

A

B

B

C

C

D

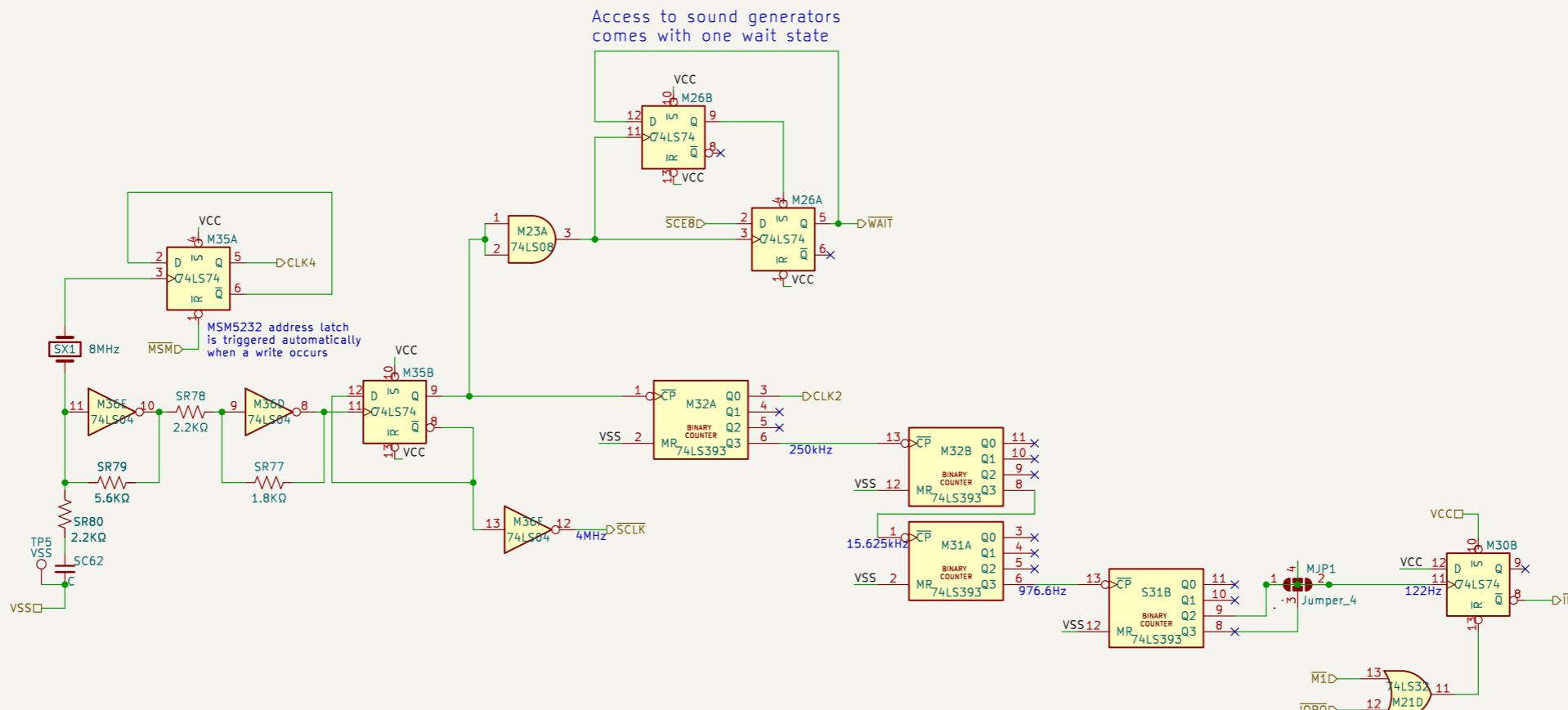
D

E

E

F

F



José Tejada  
[www.patreon.com/jotego](http://www.patreon.com/jotego)  
**JOTEGO**

Sheet: /Sound/Clocks/  
File: snd\_clocks.kicad\_sch

**Title: Sound Clock Generation**

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.9	Rev: 1d: 20/20