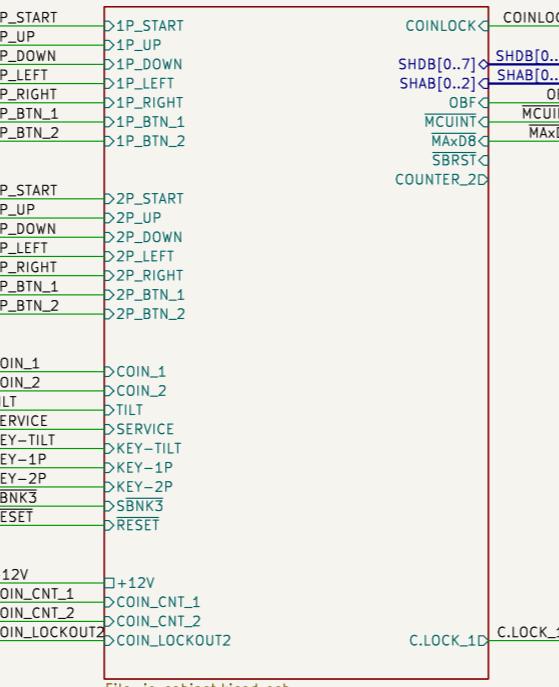
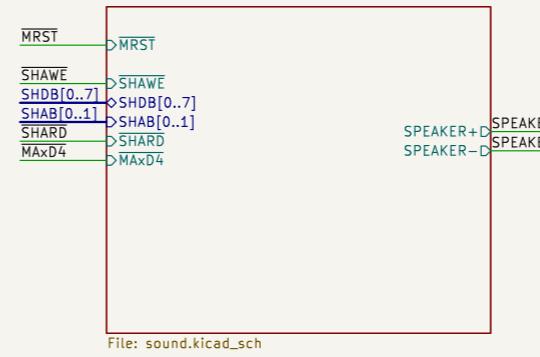


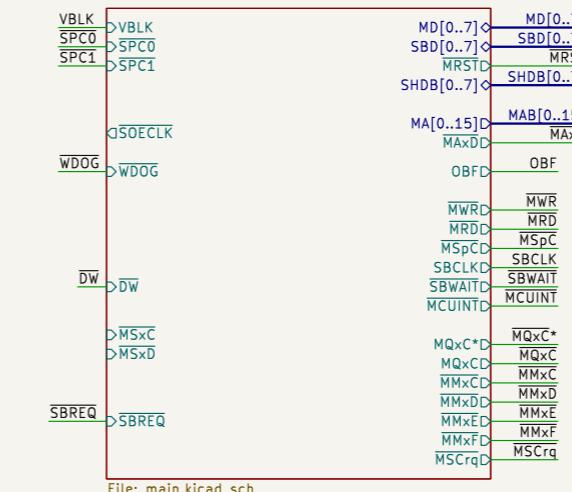
## Cabinet



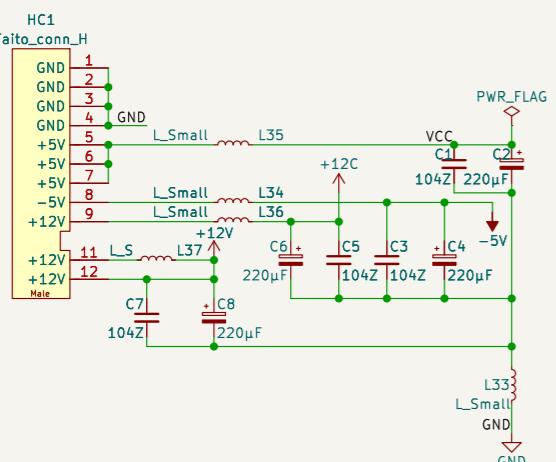
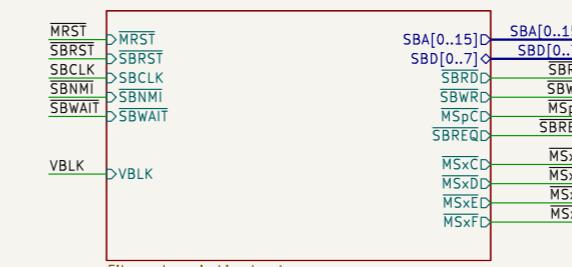
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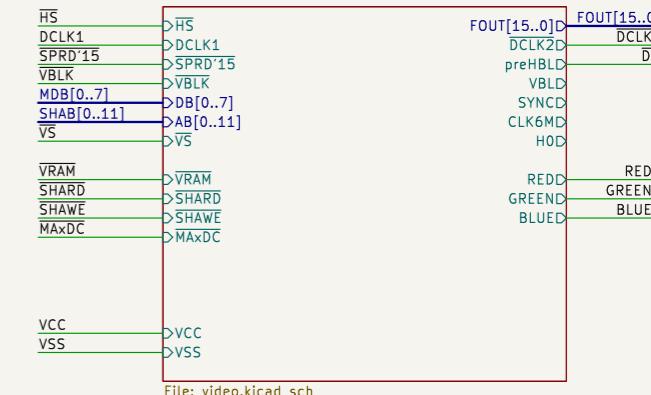
## Main



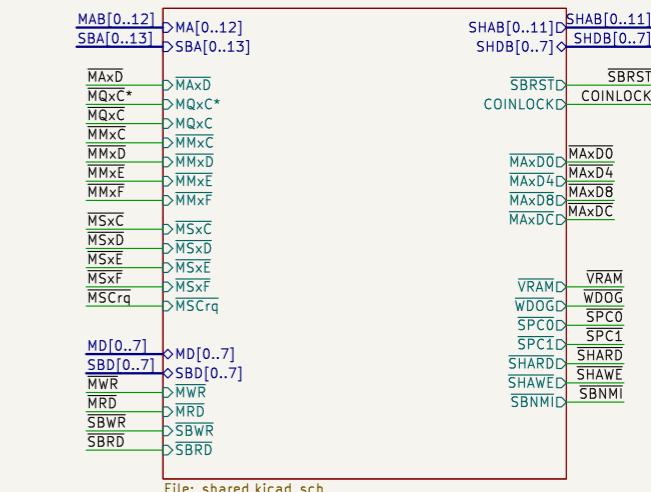
## Sub



## Video



## Shared



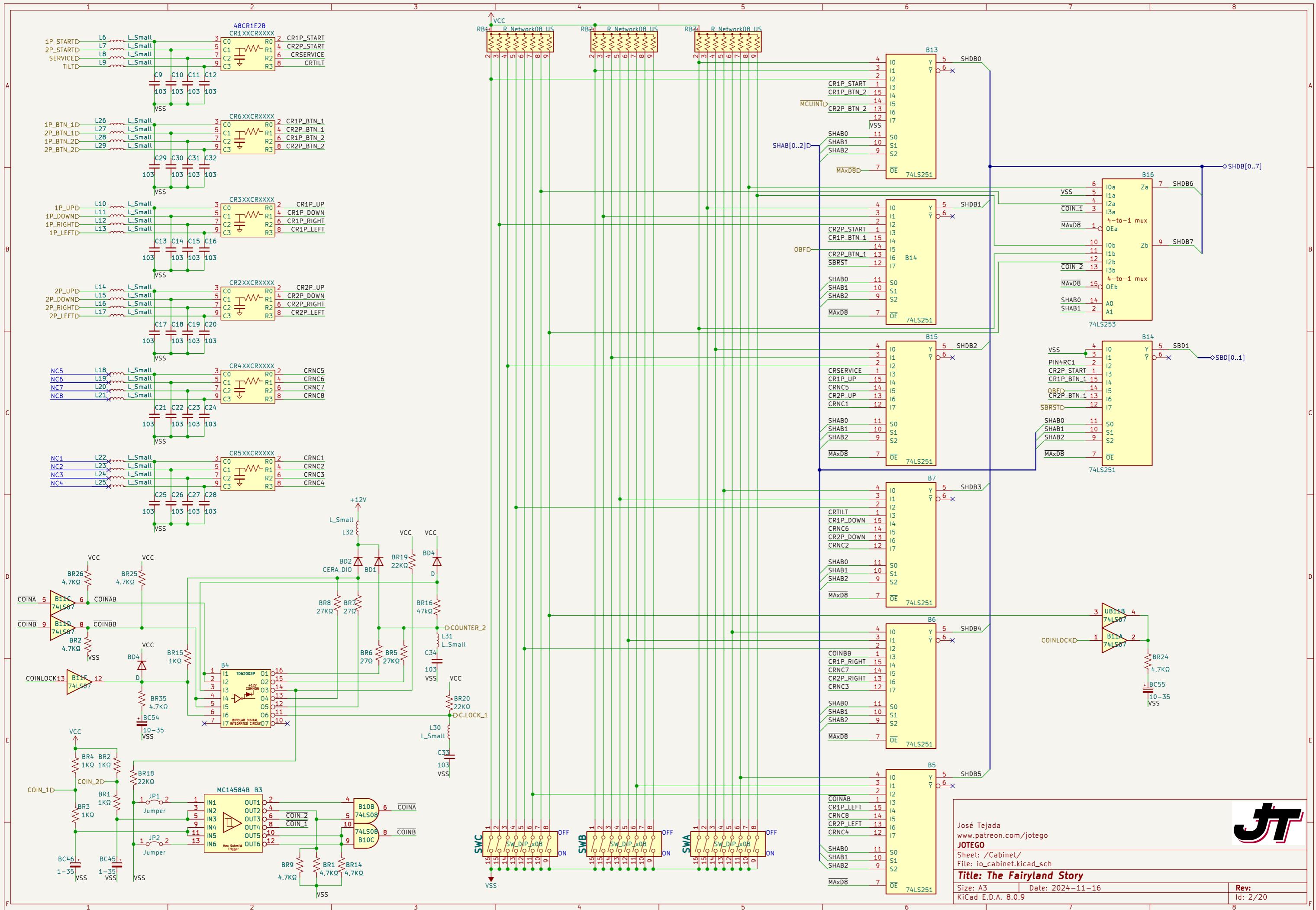
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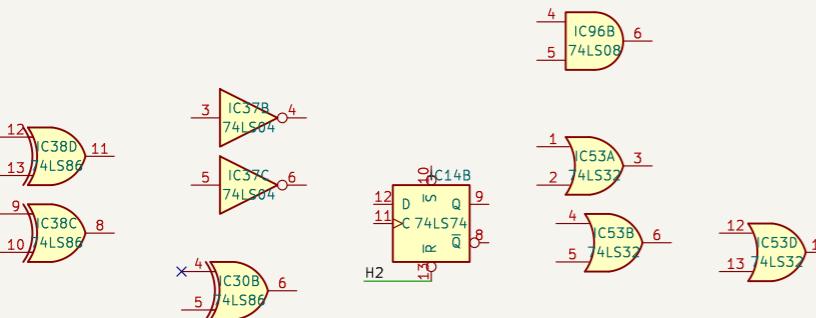
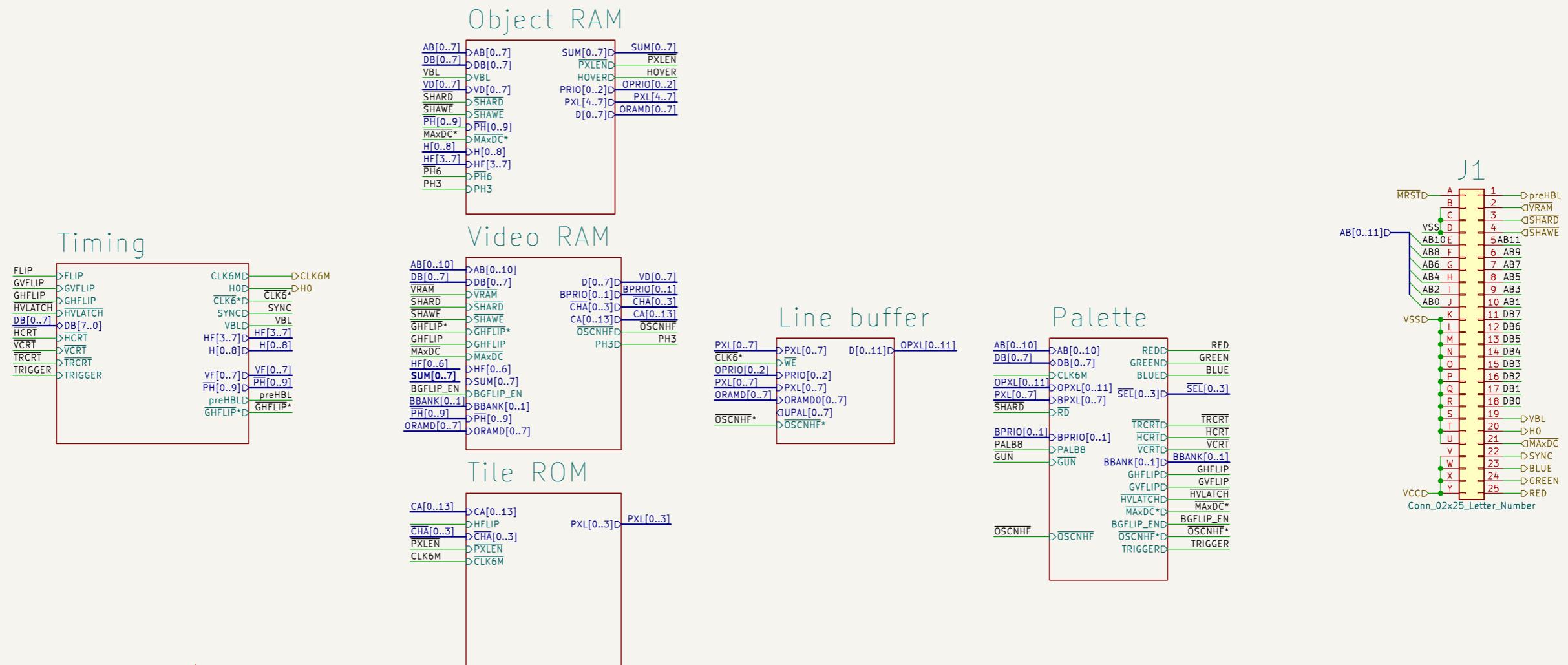
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File: fairyland.kicad\_sch

**Title: The Fairyland Story**

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

Rev:  
Id: 1/20





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Sheet: /Video/

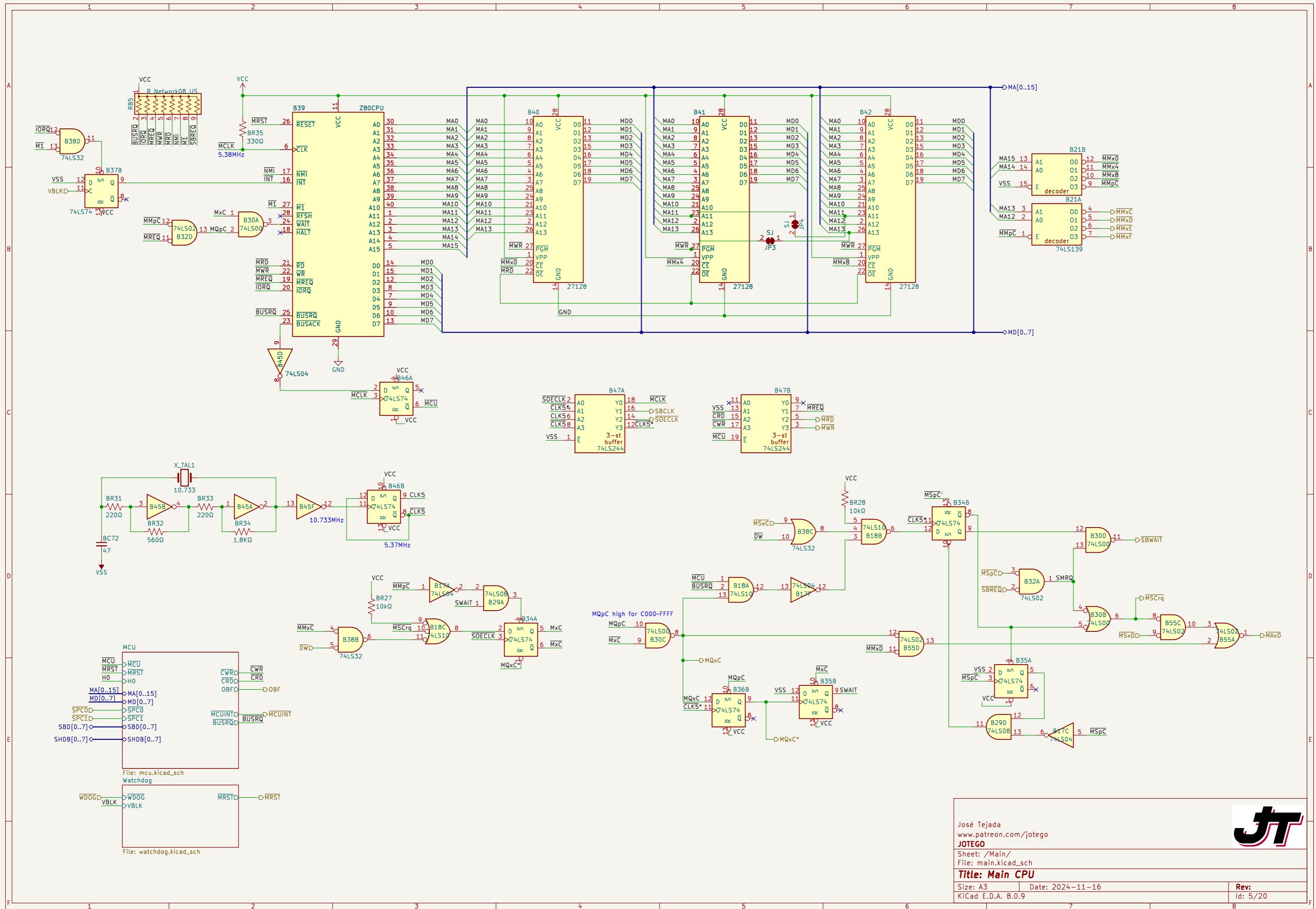
File: video.

## Title: The Fairy

Size: A3 Date: 2

KiCad E.D.A. 8.0.9

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Sheet: /Main/  
File: main.kicad\_sch

**Title: Main CPU**

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



Rev:  
Id: 5/20



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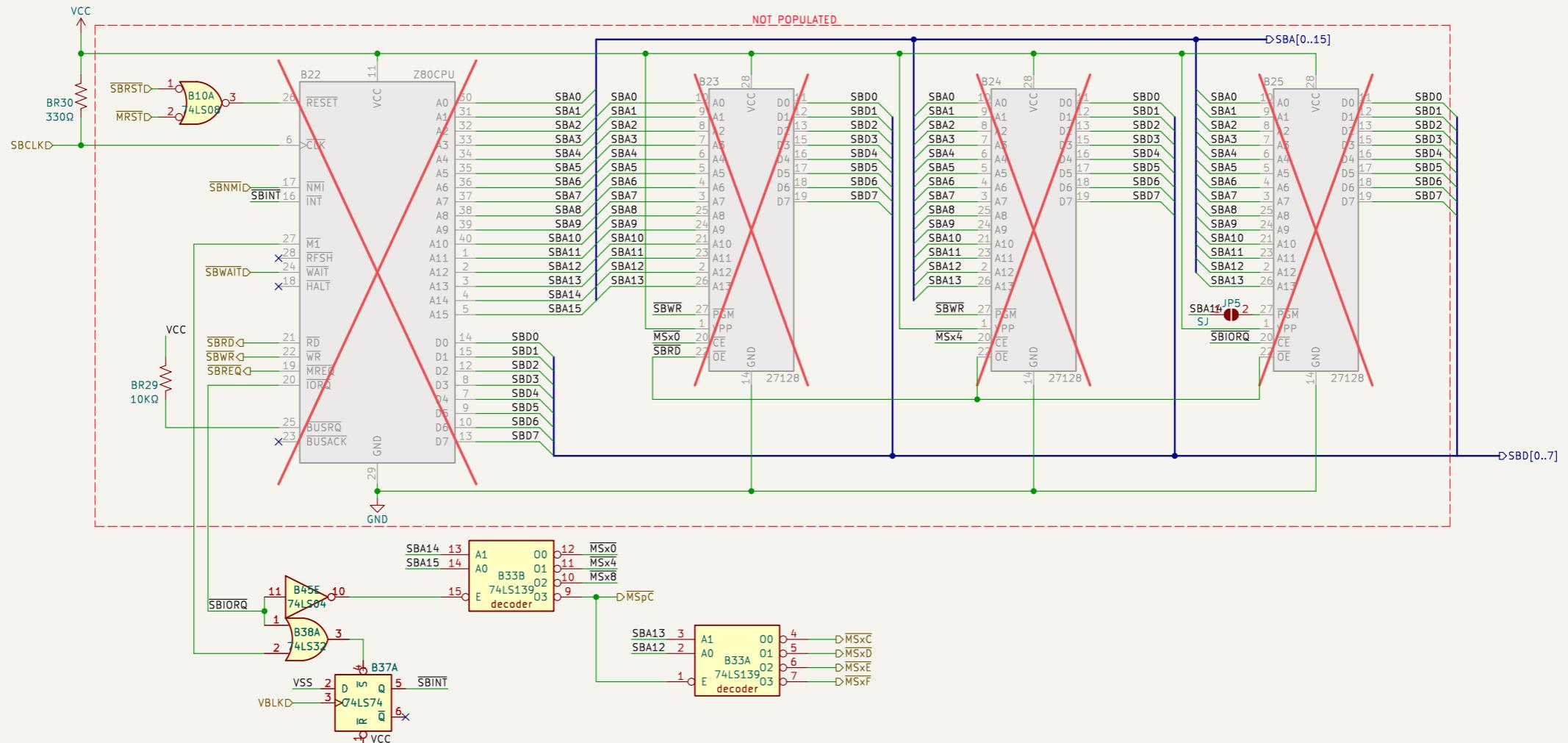
Sheet: /Sound/  
 File: sound.kicad\_sch

**Title: Sound Board**

Size: A3 | Date: 2024-11-16  
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Rev:  
 Id: 7/20





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Sheet: /Sub/

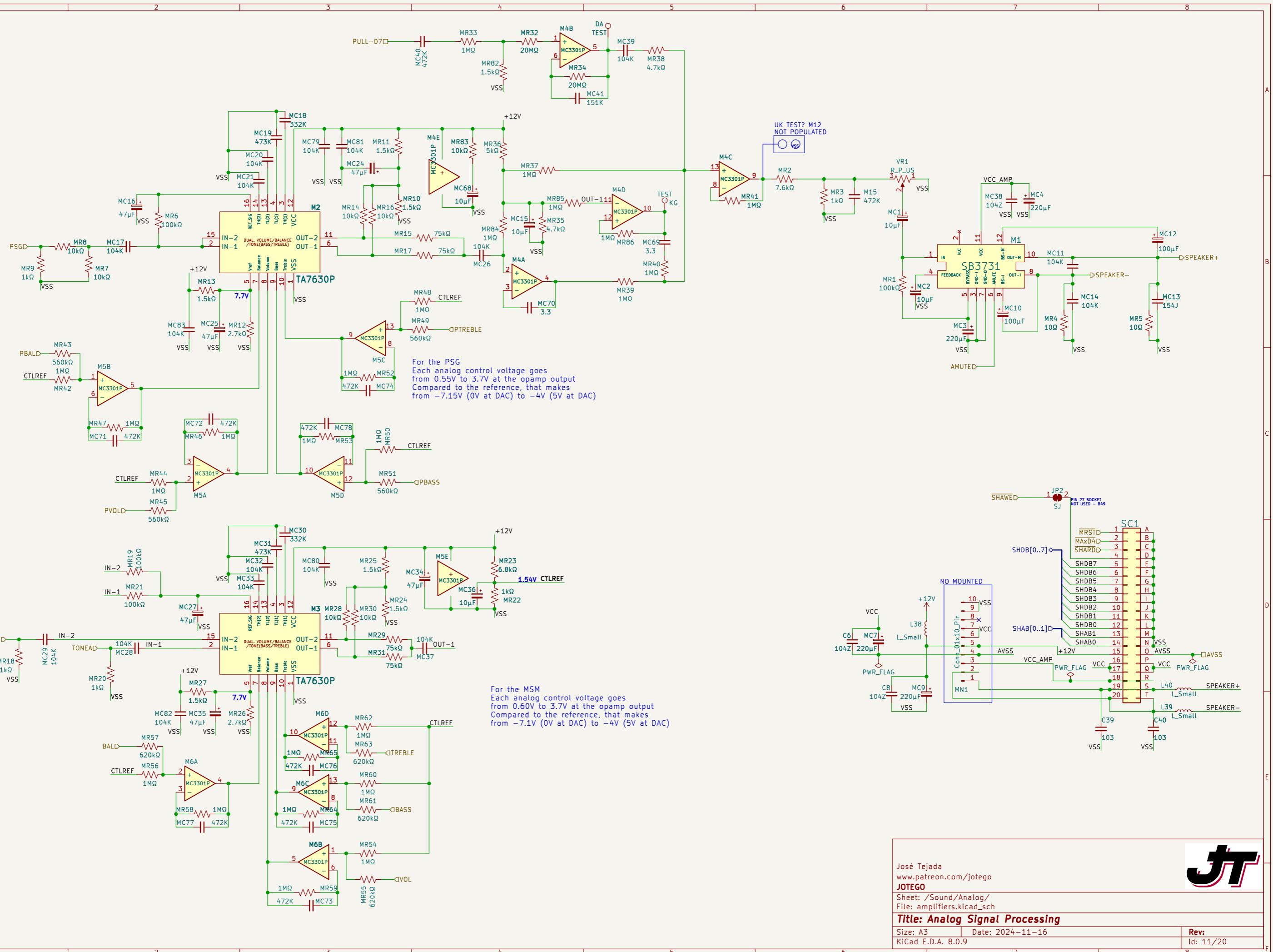
File: sub\_main.kicad\_sch

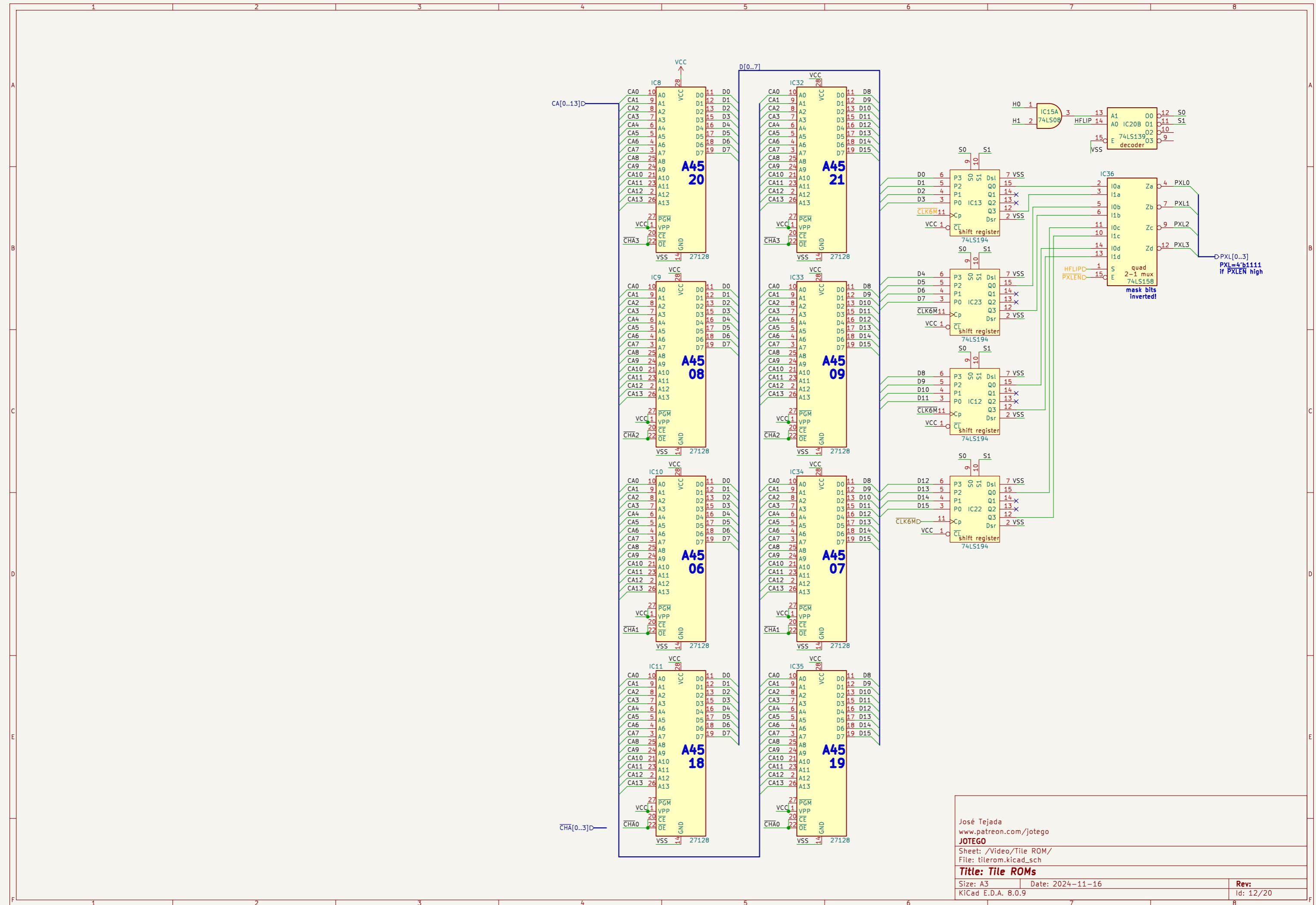
## Title: Subsidiary CPU

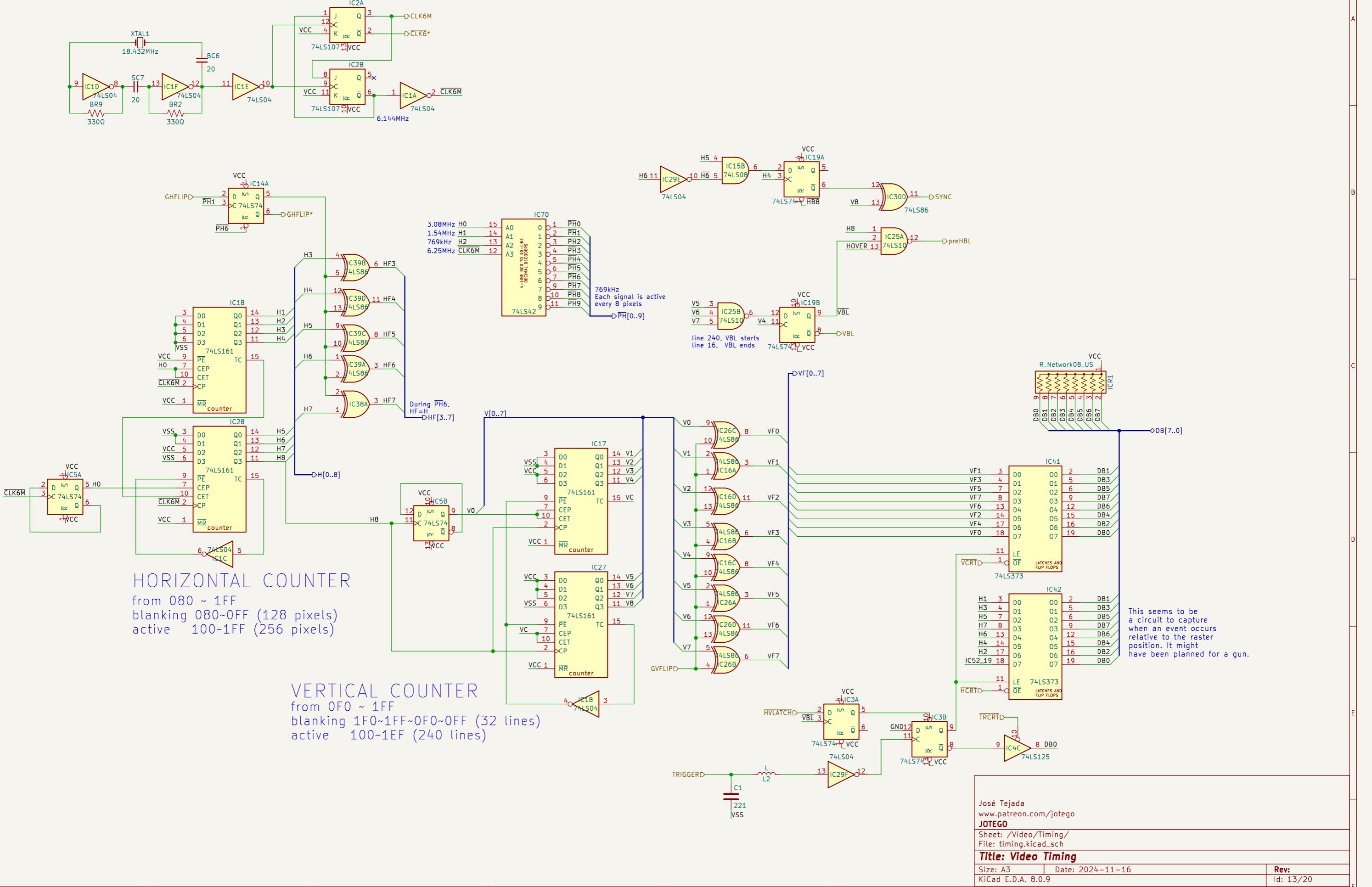
Size: A3 Date: 2024-11-16  
KiCad EDA 8.0.8

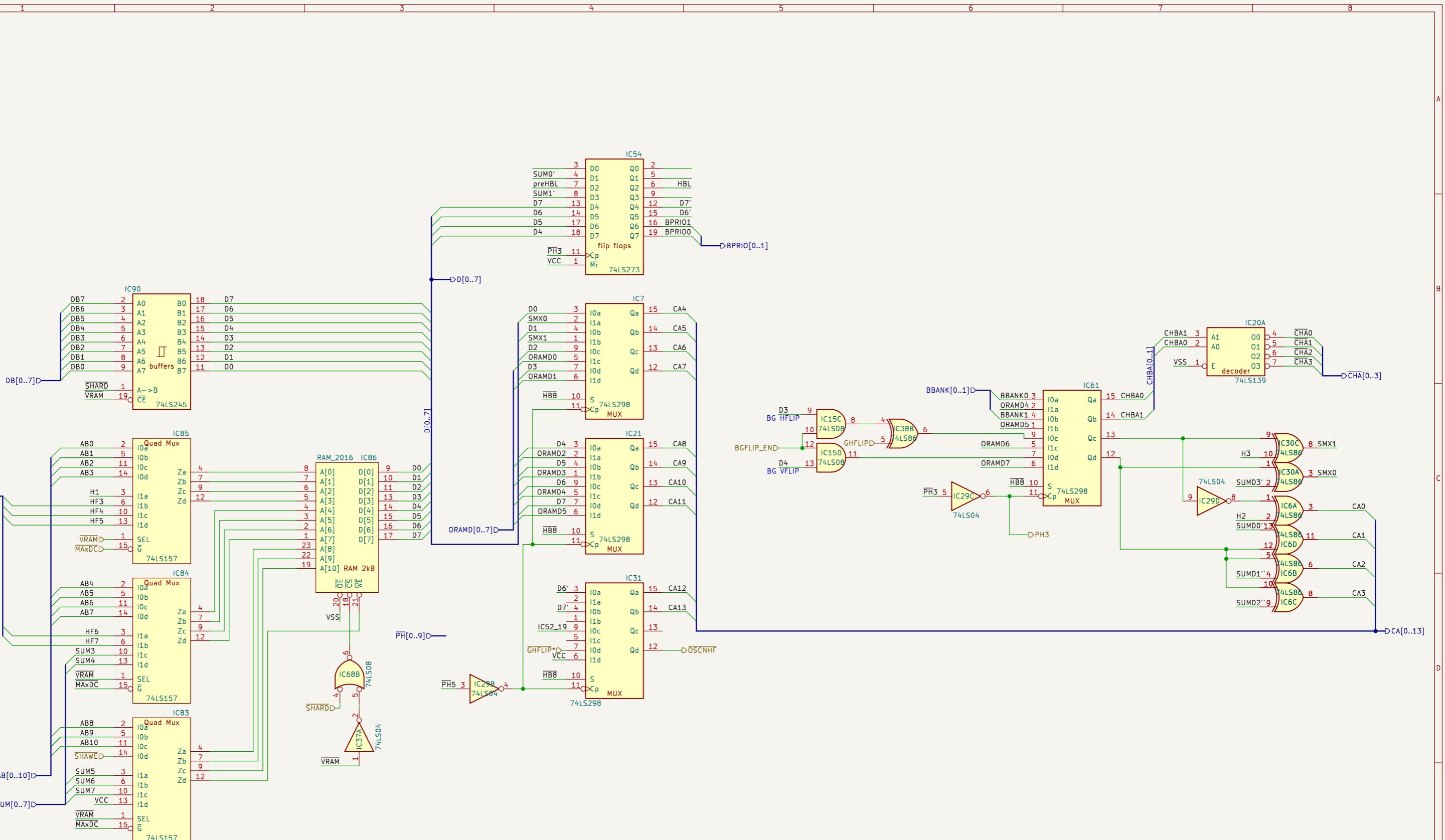
KiCad EDA 8.0.9

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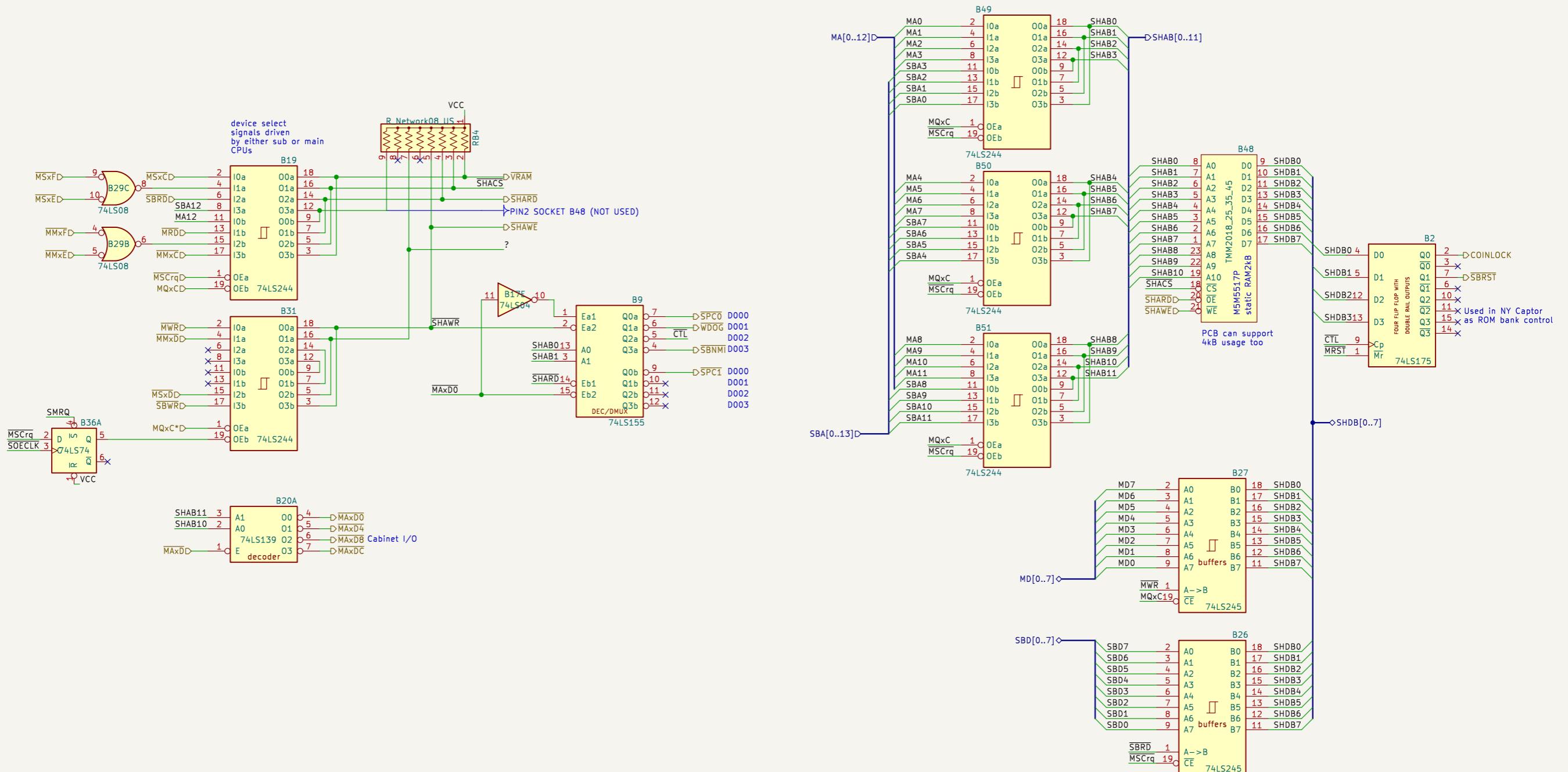
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**JOTEGO**

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:  
Id: 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

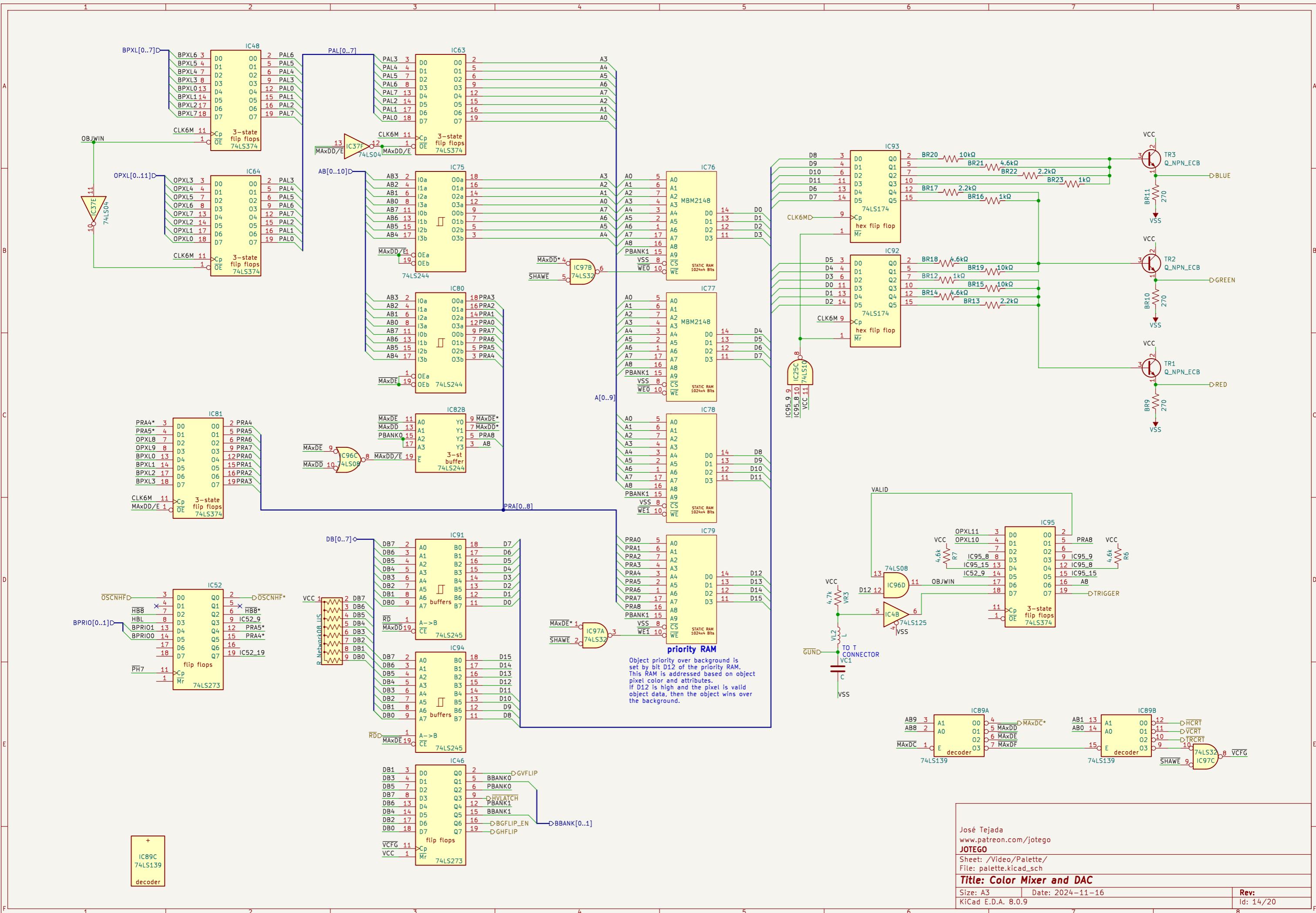
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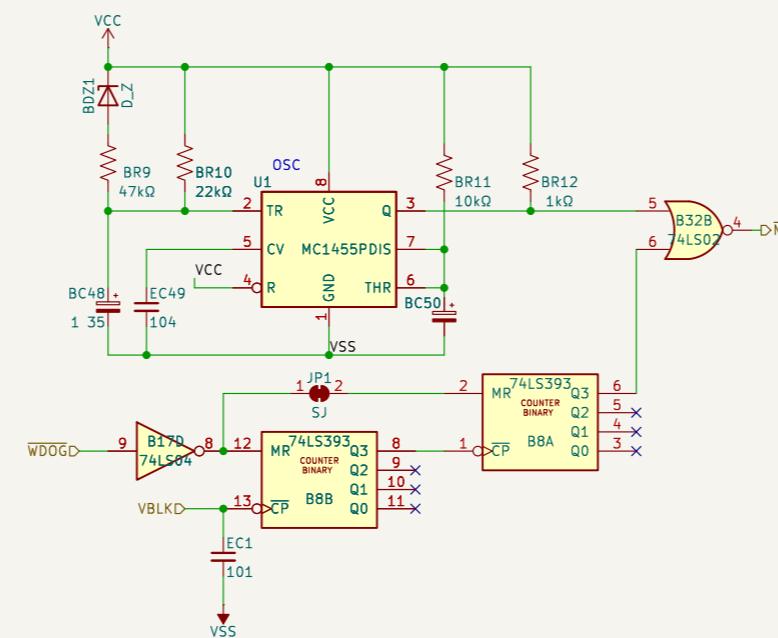
Sheet: /Main/MCU/  
File: mcu.kicad\_sch

**Title: MCU**

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

Rev: Id: 14/20





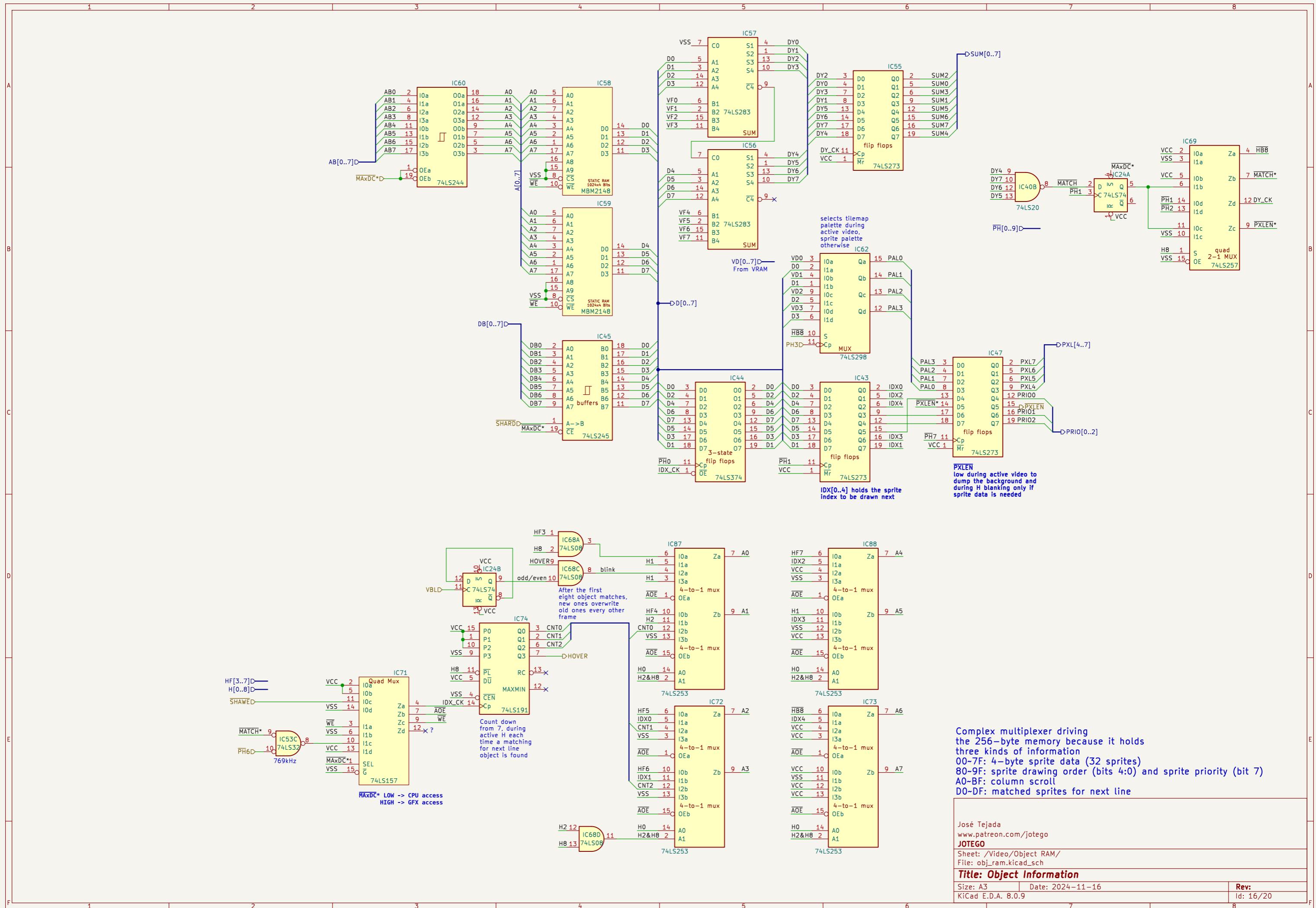
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**JOTEGO**

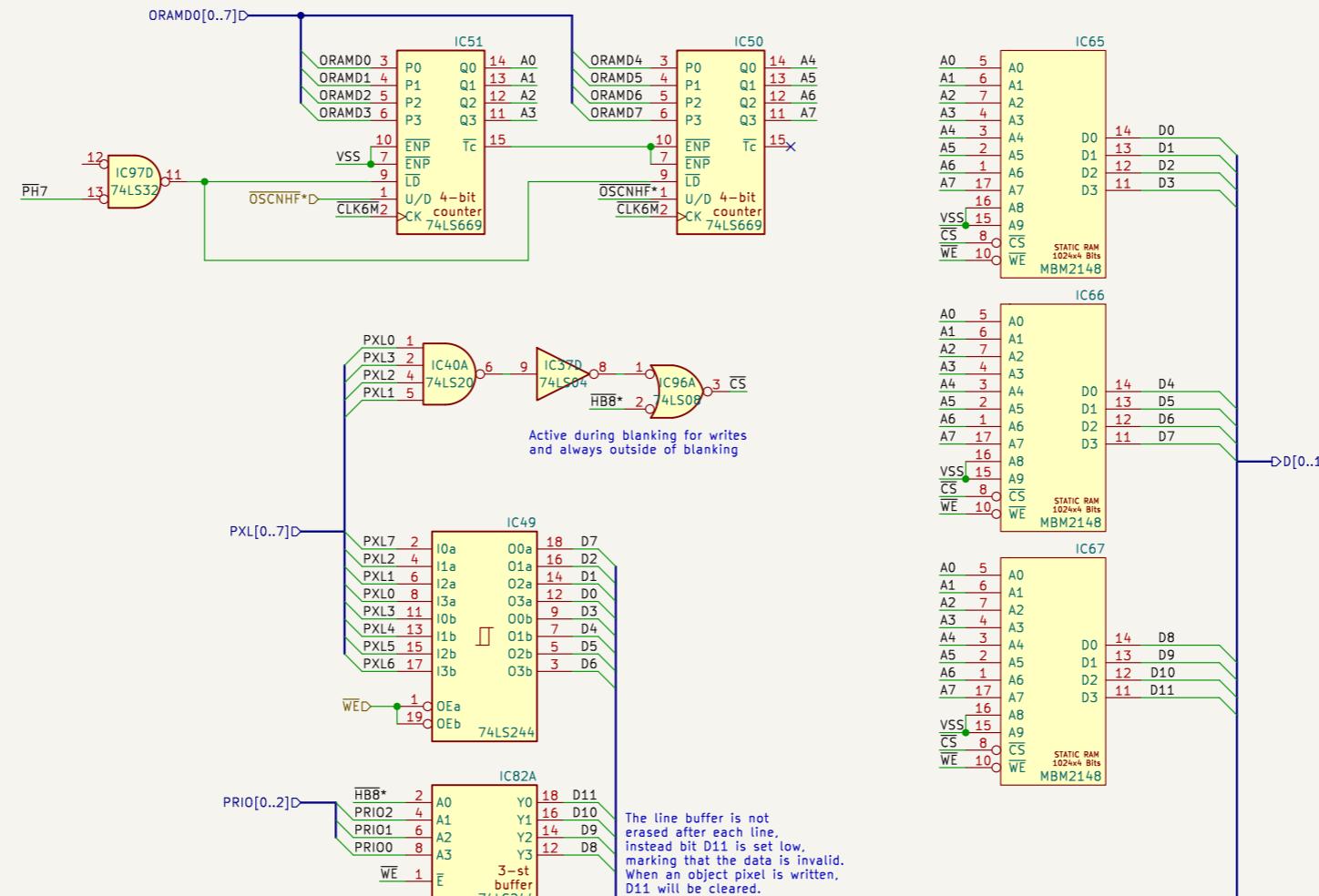
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File: watchdog.kicad\_sch

**Title:**

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

Rev:  
Id: 15/20



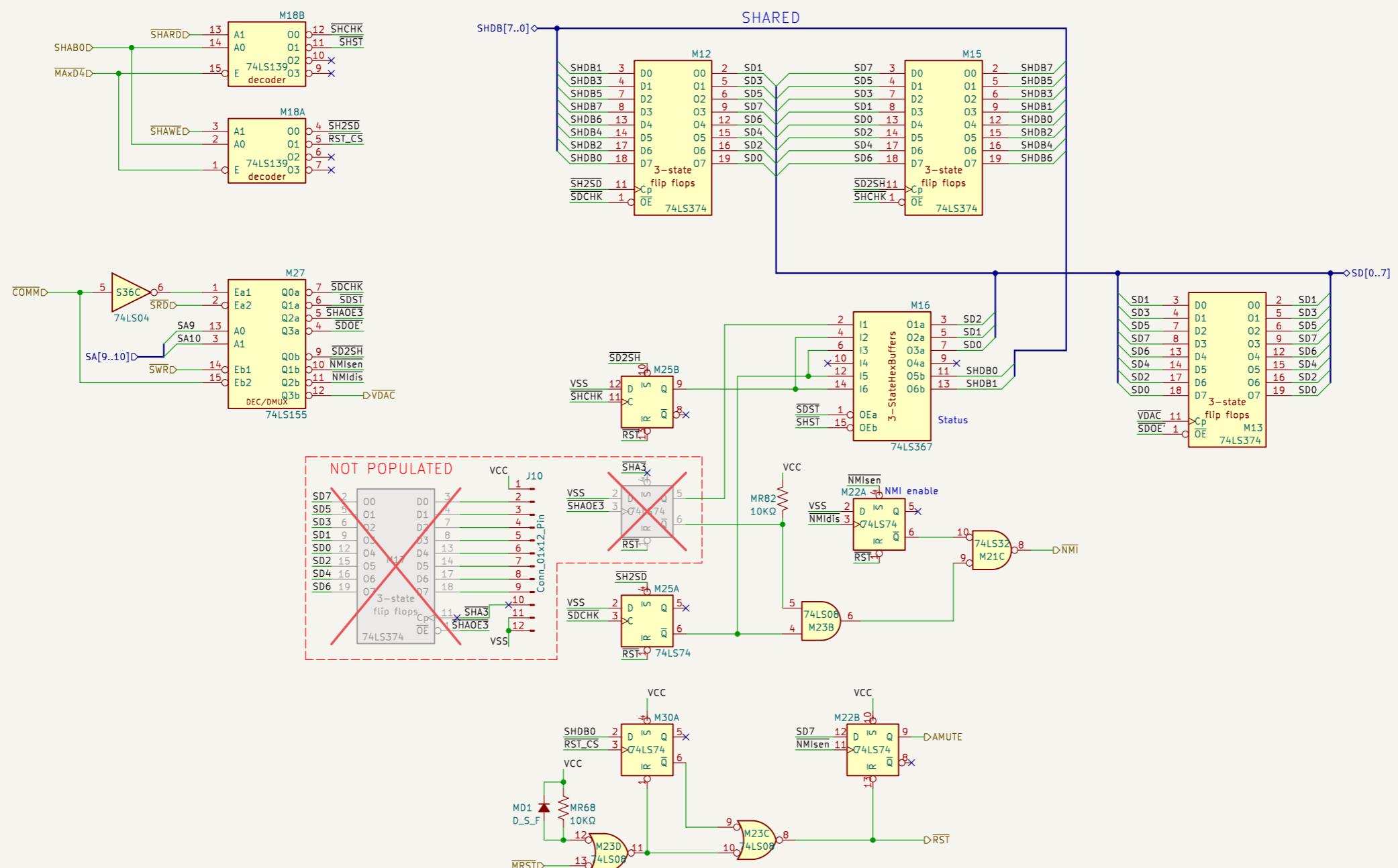


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Sheet: /Video/Line buffer/  
File: linebuf.kicad\_sch

**Title: Single Line Video Buffer**

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.9	Rev: 17/20



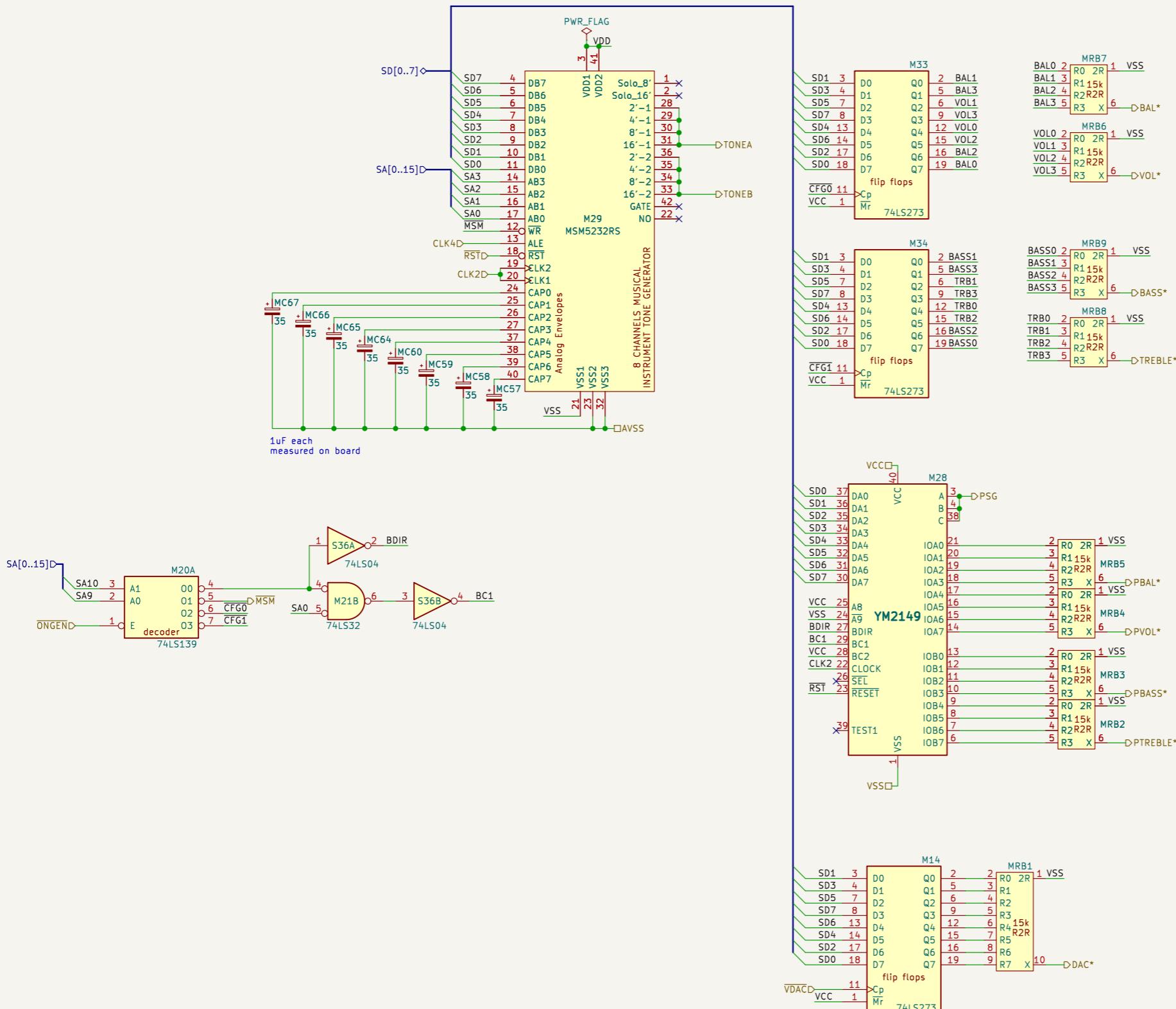
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**JOTEGO**

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

**Title: Communication Latches**

Size: A3 | Date: 2024-11-16  
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Rev:  
Id: 18/20



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**JOTEGO**  
Sheet: /Sound/Sound Generators/  
File: ongen.kicad\_sch

**Title: Sound Generators**

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

Rev:  
Id: 19/20

A

A

B

B

C

C

D

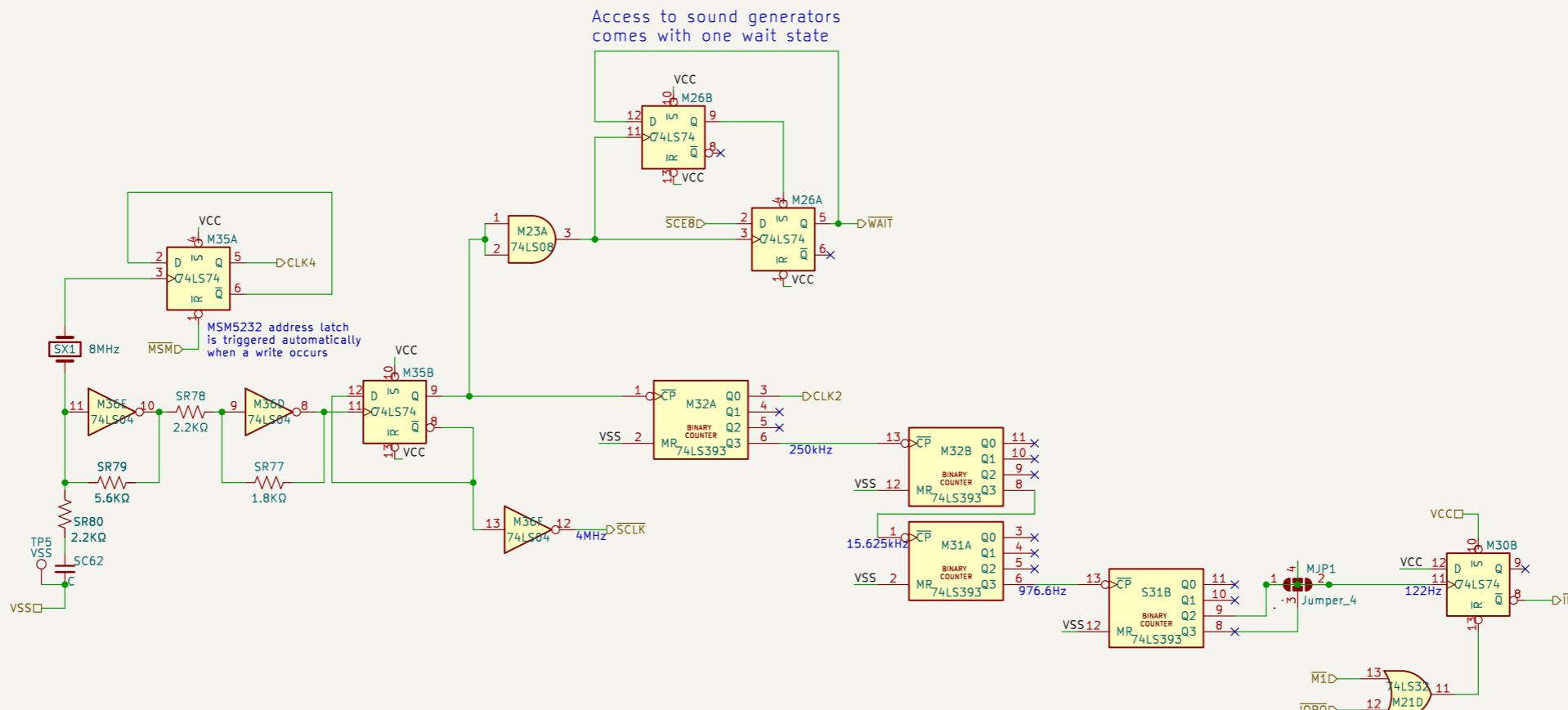
D

E

E

F

F



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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:  
Id: 20/20