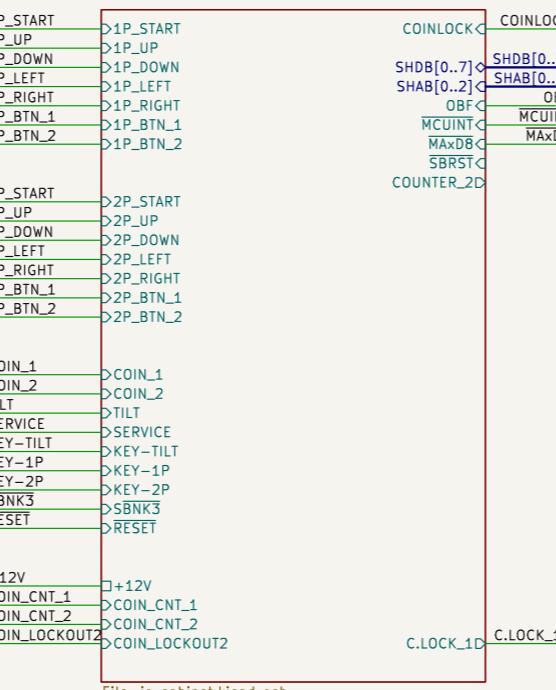
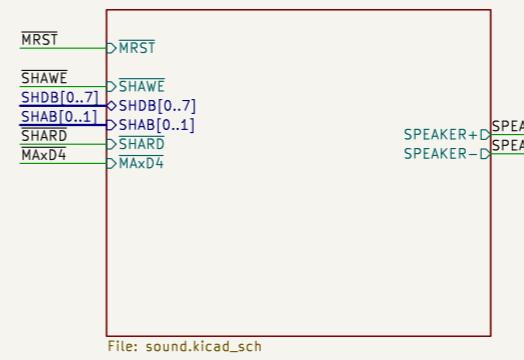


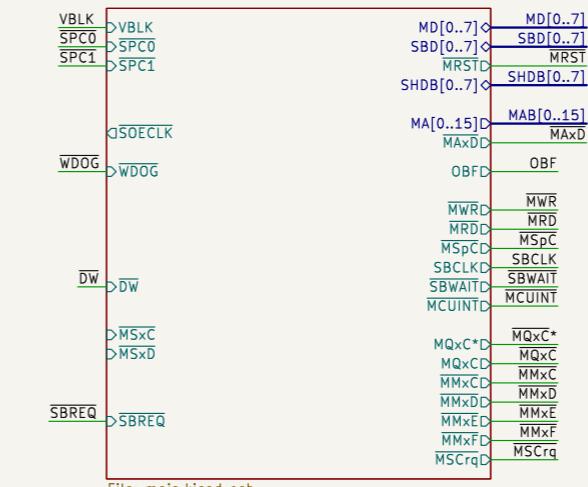
Cabinet



Sound



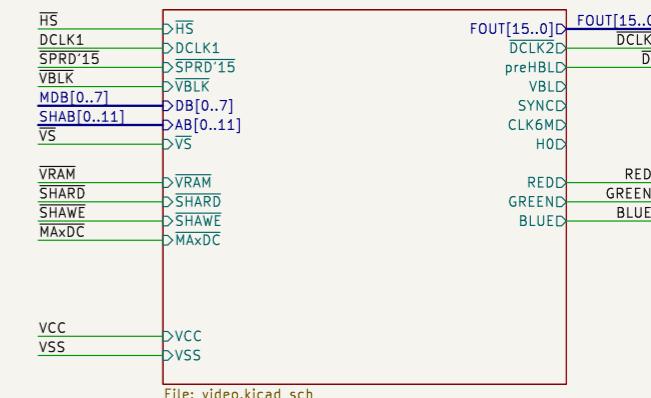
Main



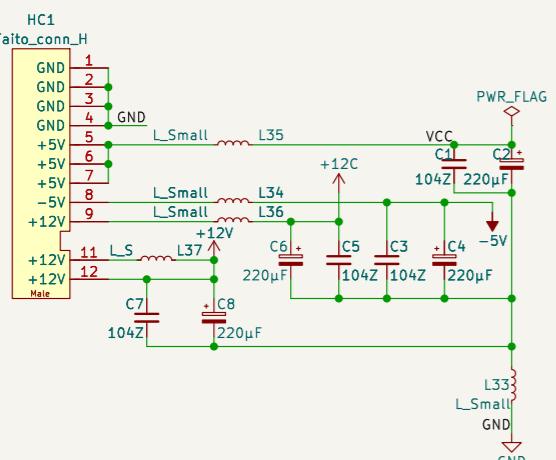
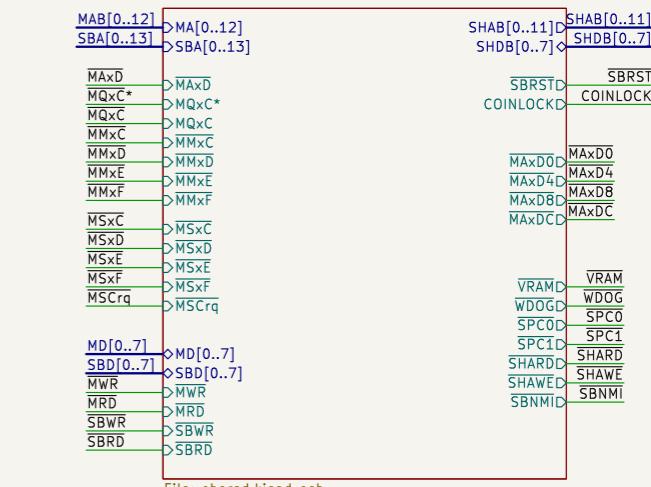
Sub



Video



Shared



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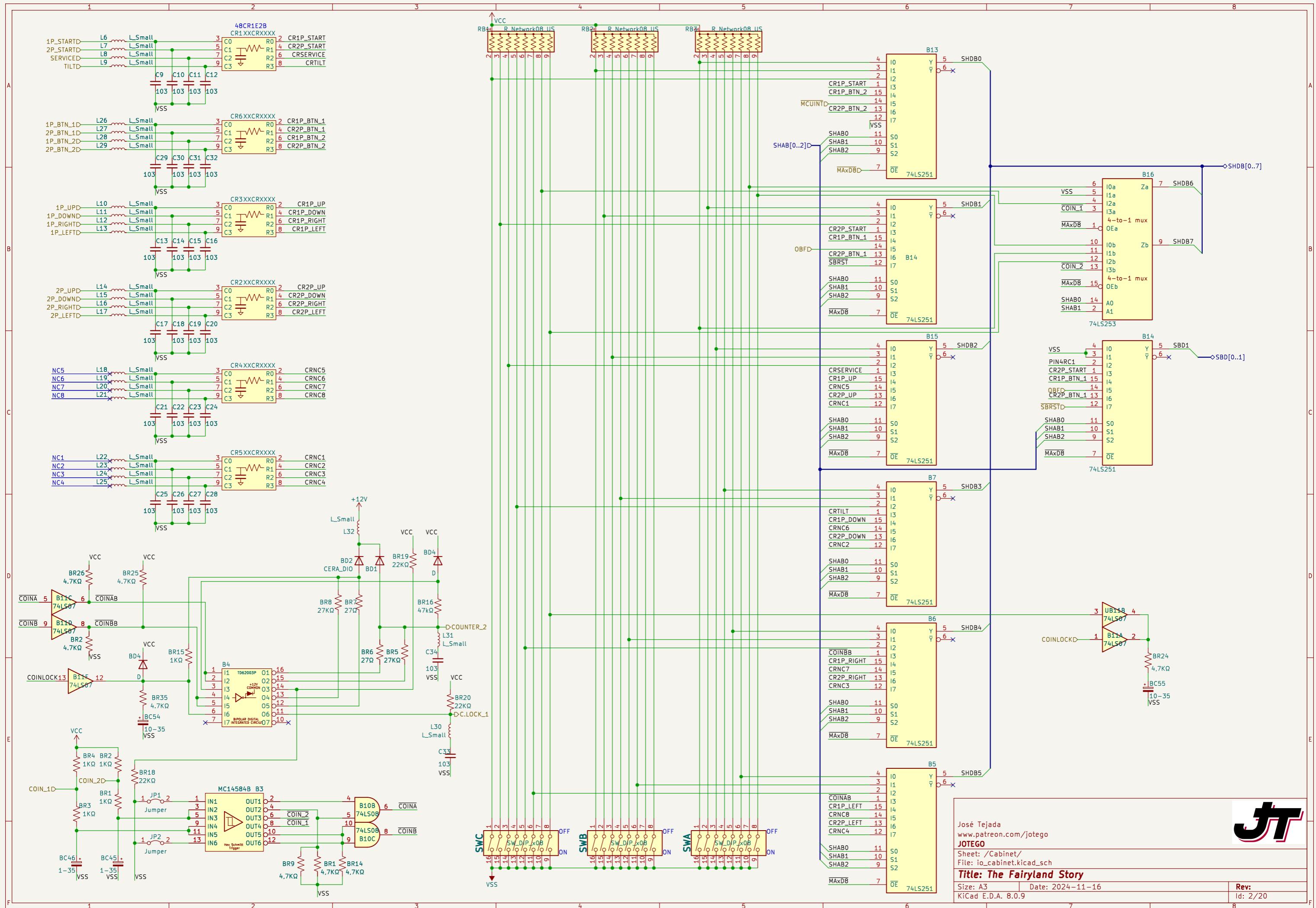
Sheet: /
File: fairyland.kicad_sch

Title: The Fairyland Story

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



Rev:
Id: 1/20



A

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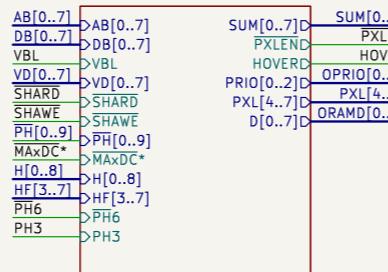
E

E

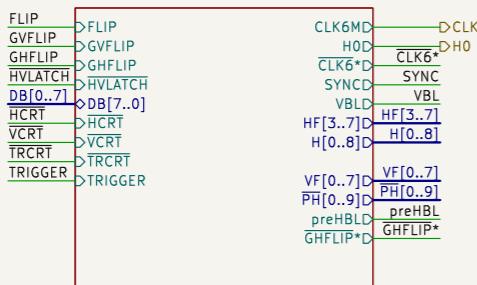
F

F

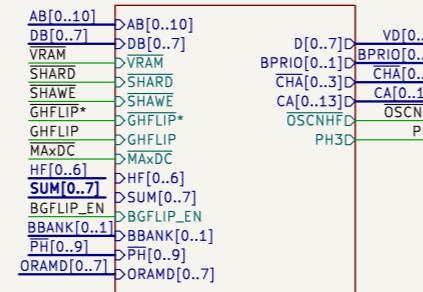
Object RAM



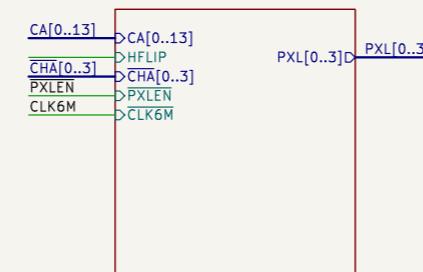
Timing



Video RAM

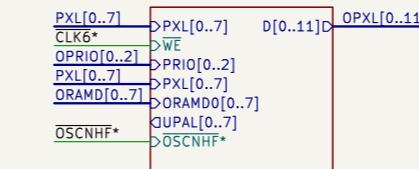


Tile ROM

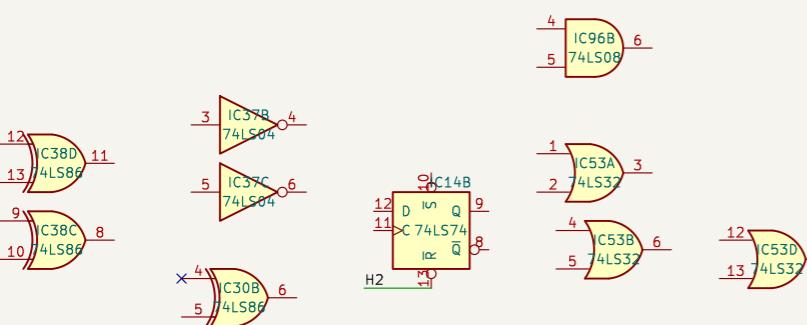
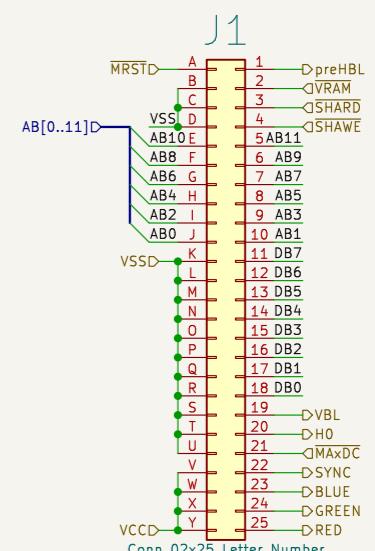
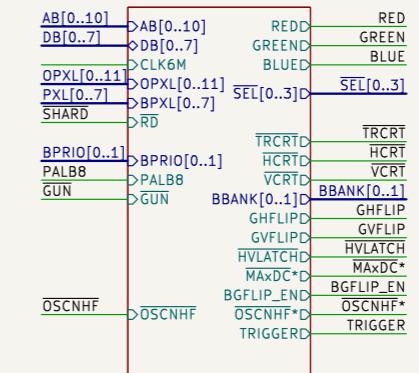


1 2 3 4 5 6 7 8

Line buffer



Palette



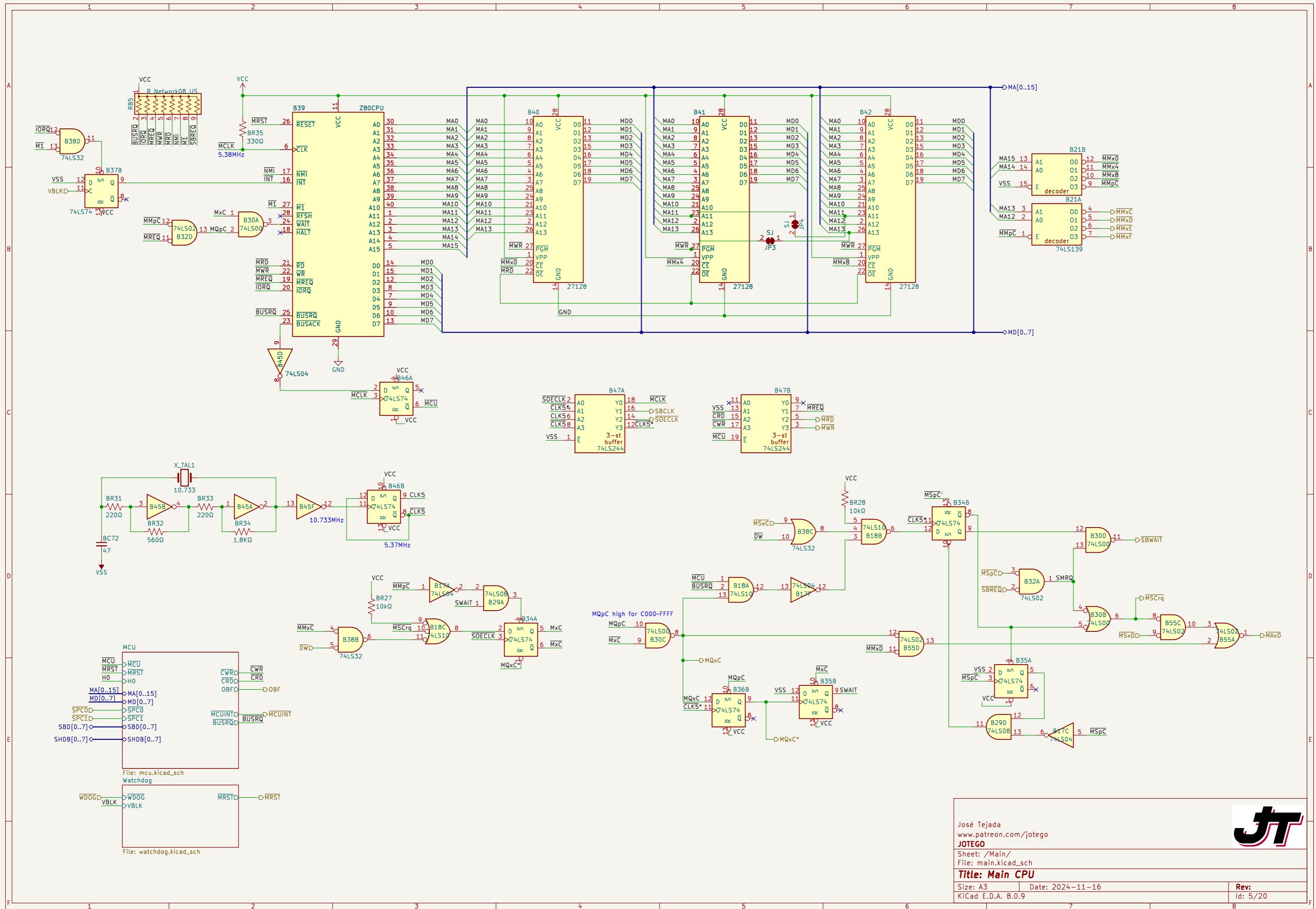
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Sheet: /Video/
File: video.kicad_sch

Title: The Fairyland Story

Size: A3 | Date: 2024-11-16
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



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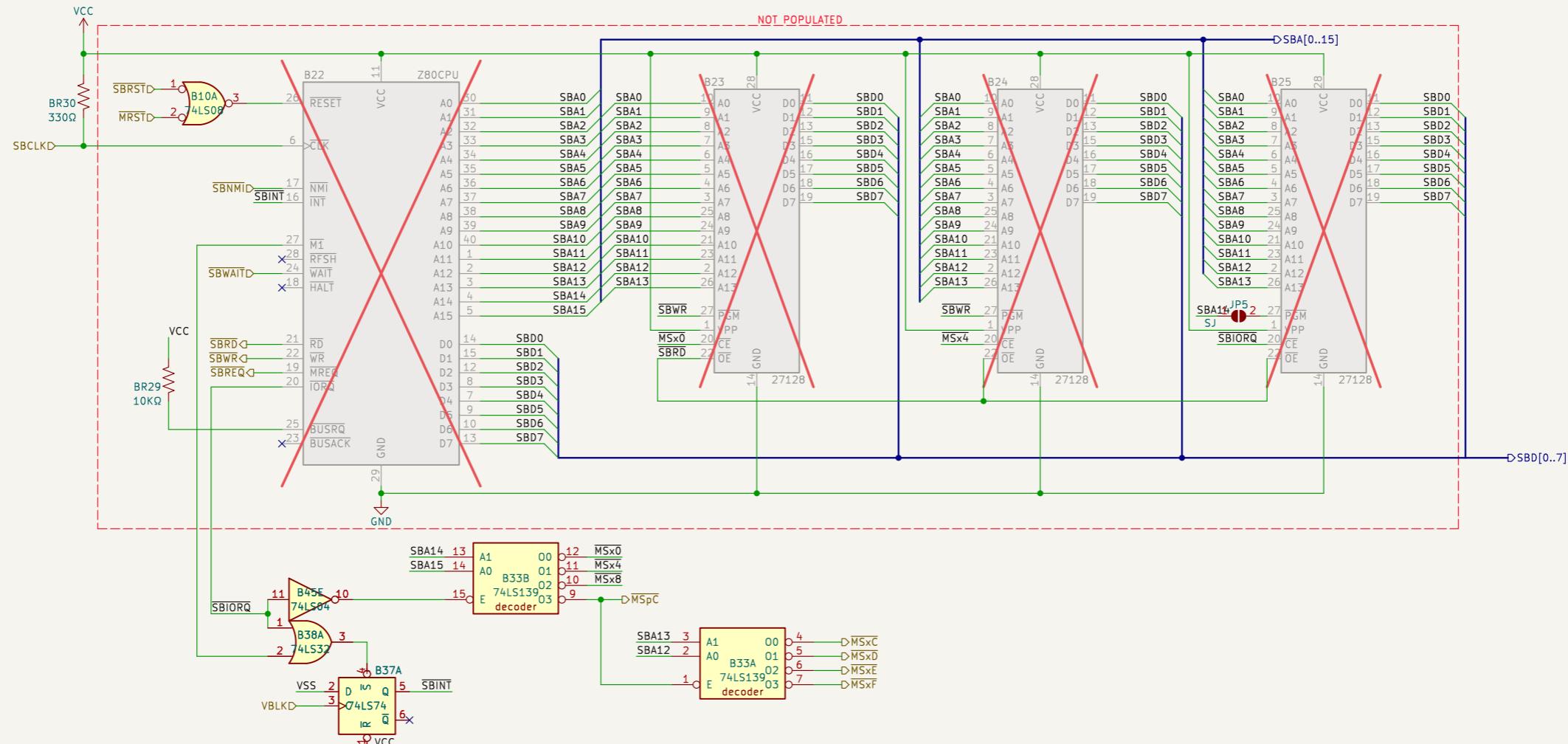
Sheet: /Sound/
File: sound.kicad_sch

Title: Sound Board

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

Rev: 7/20



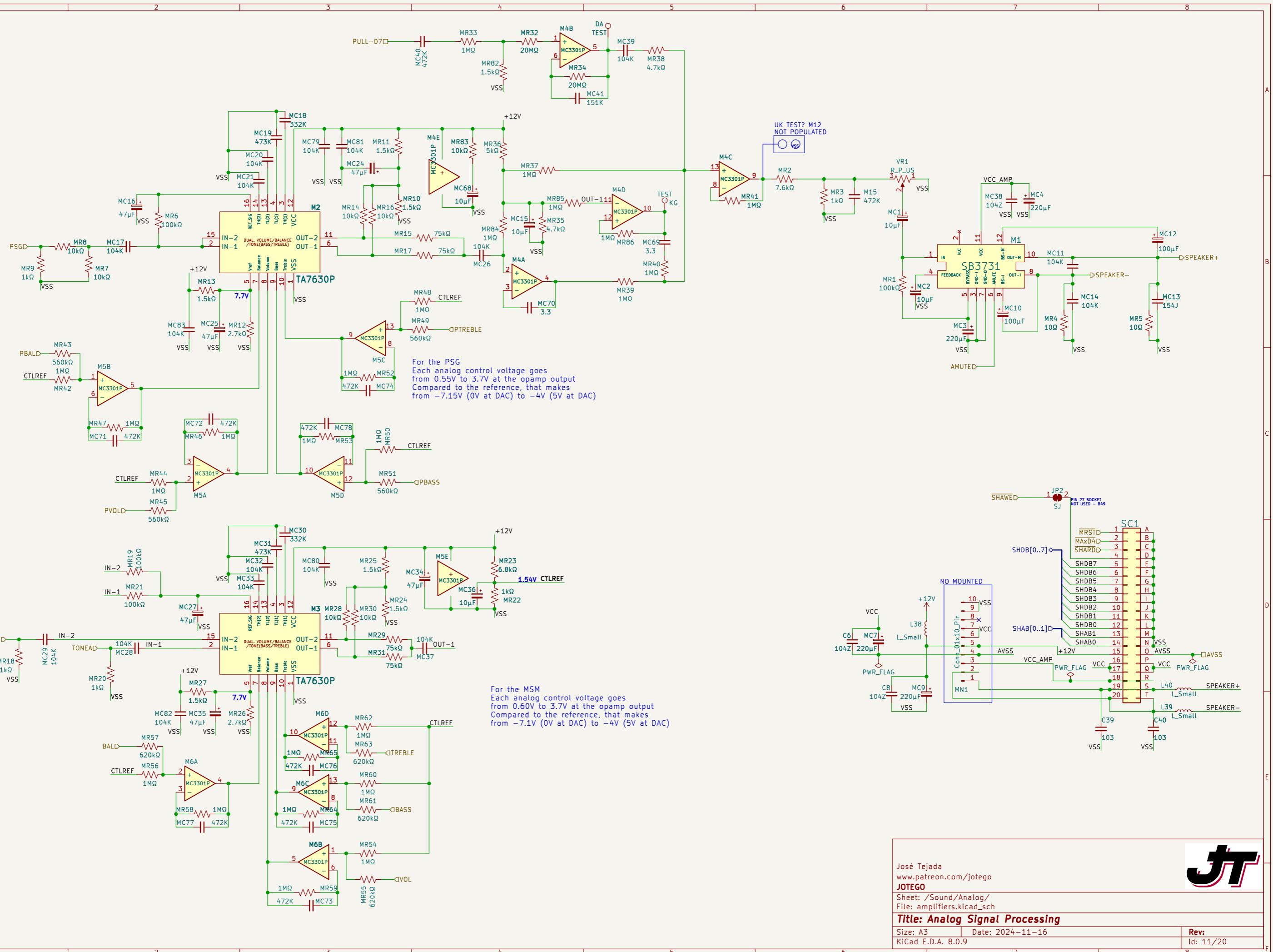


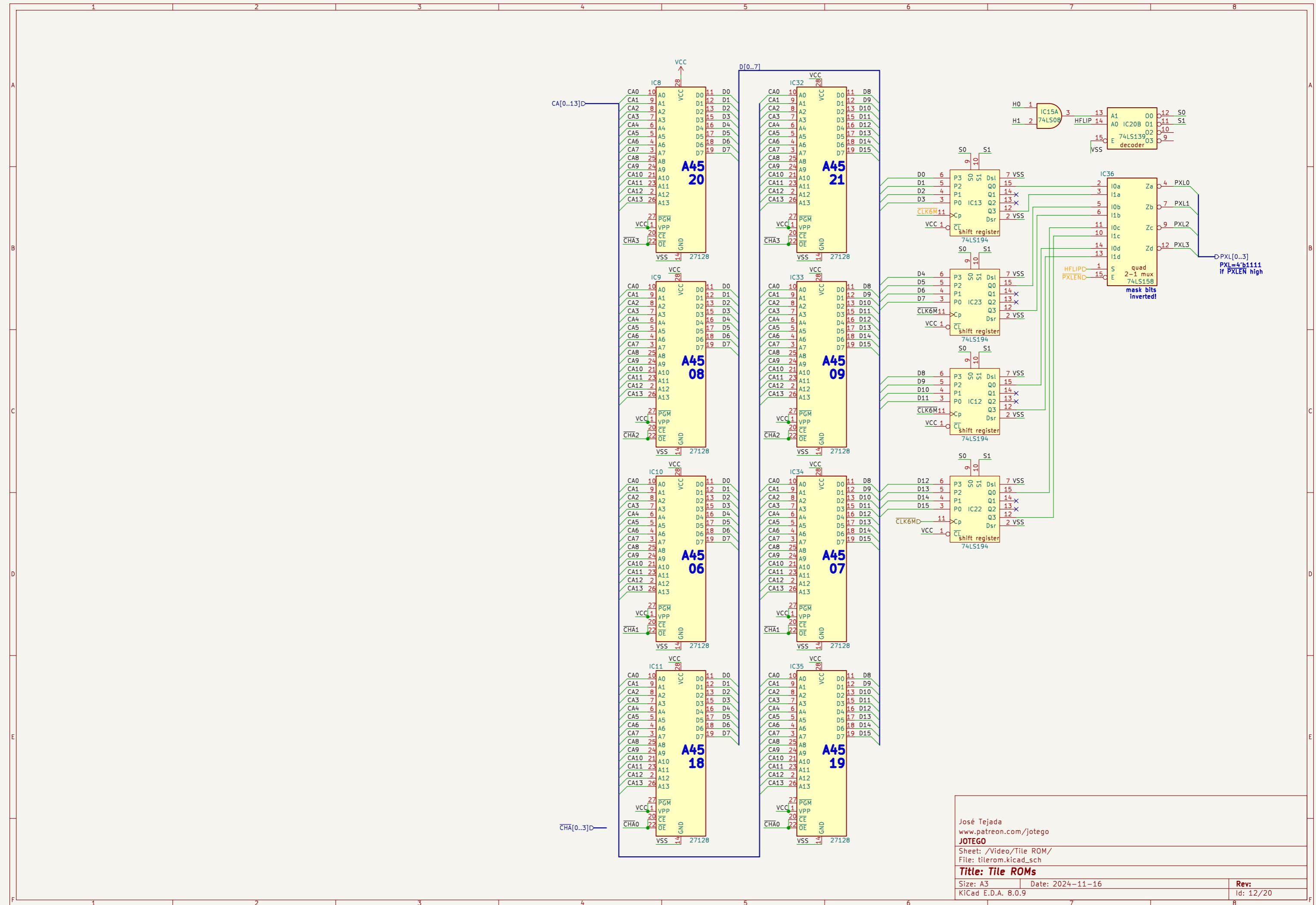
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Sheet: /Sub/
File: sub_main.kicad_sch
Title: Subsidiary CPU

Size: A3 | Date: 2024-11-16
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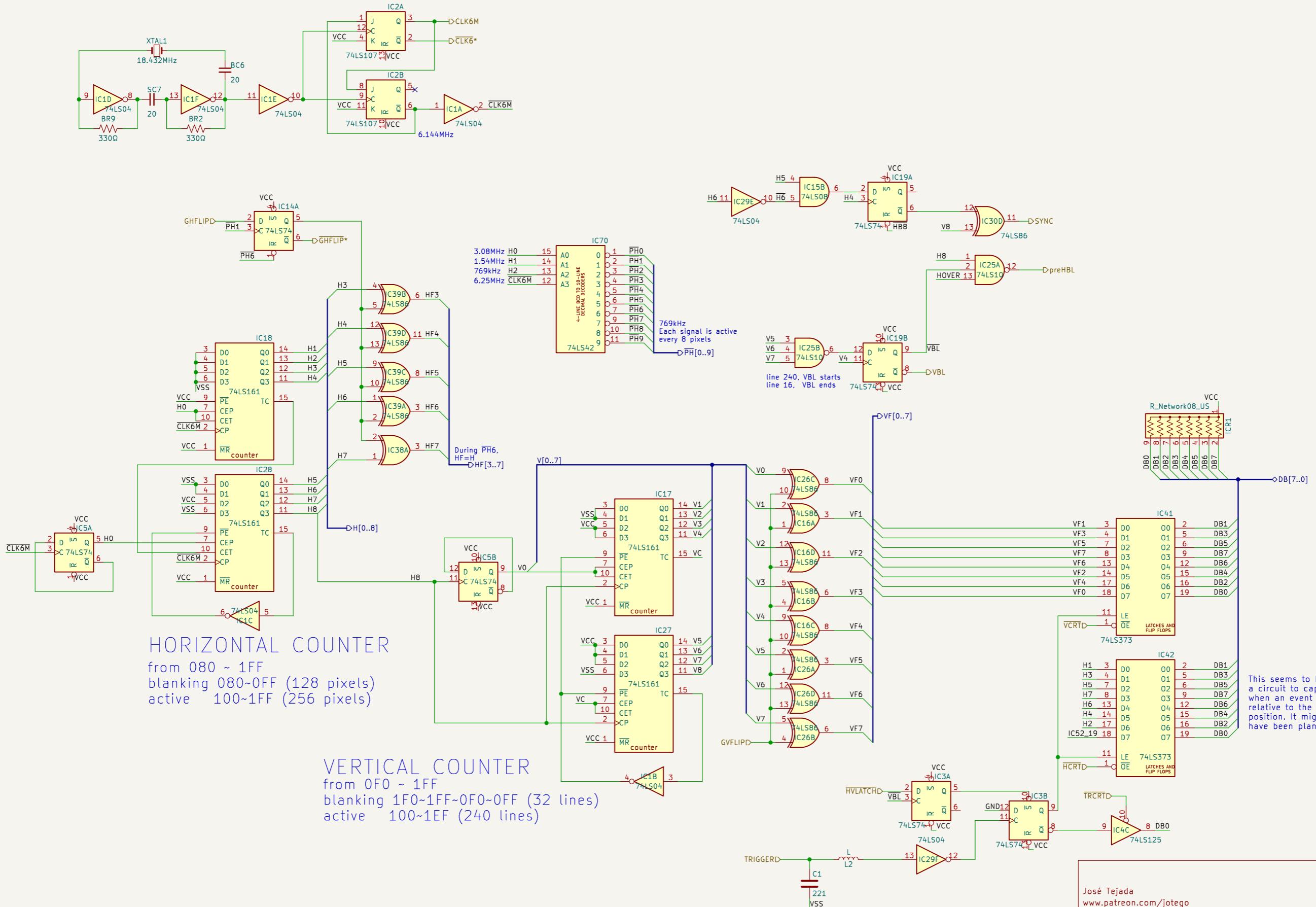
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Sheet: /Video/Tile ROM/
File: tilerom.kicad_sch

Title: Tile ROMs

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

Rev:
Id: 12/20

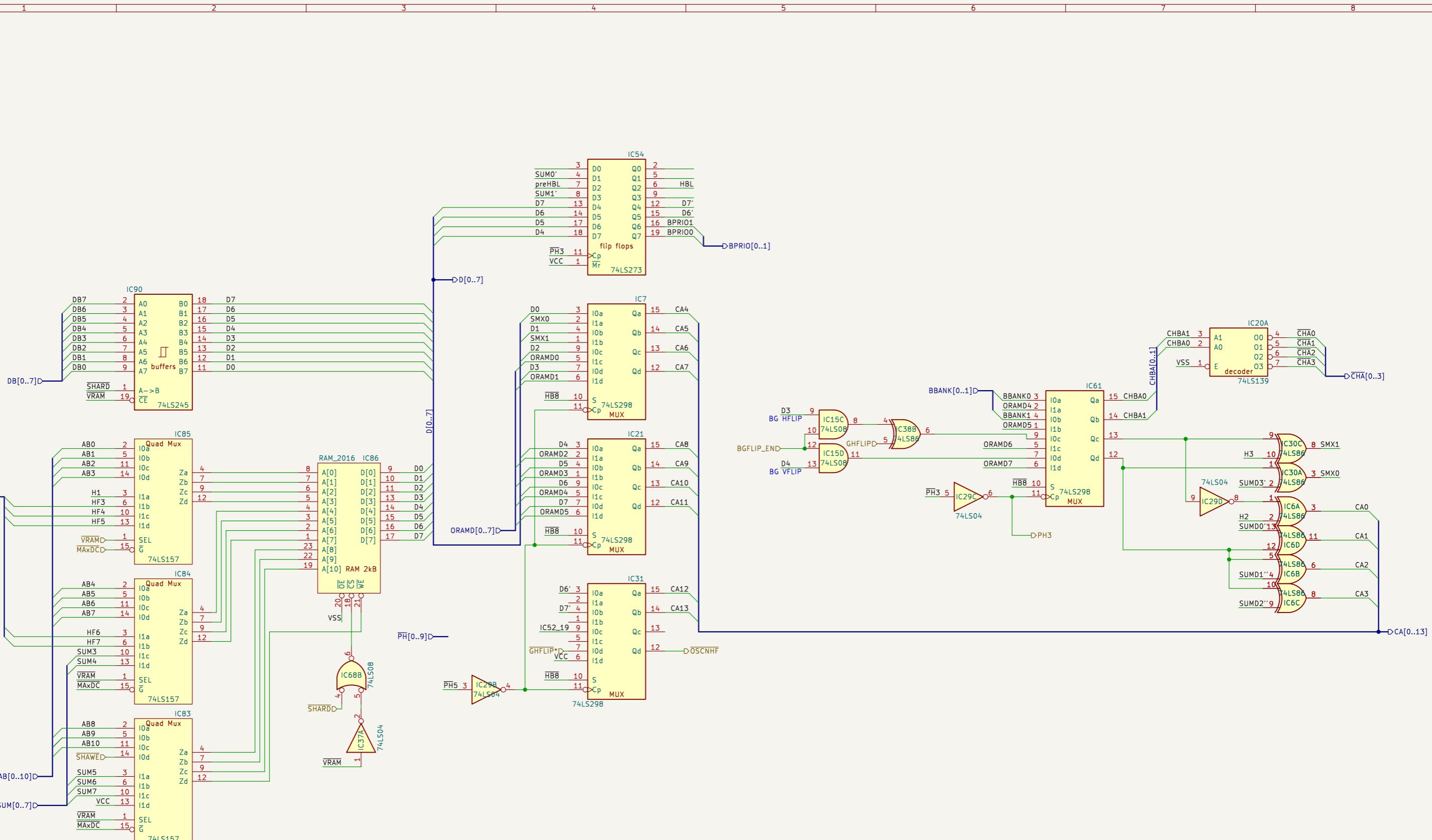


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Title: Video Timing

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



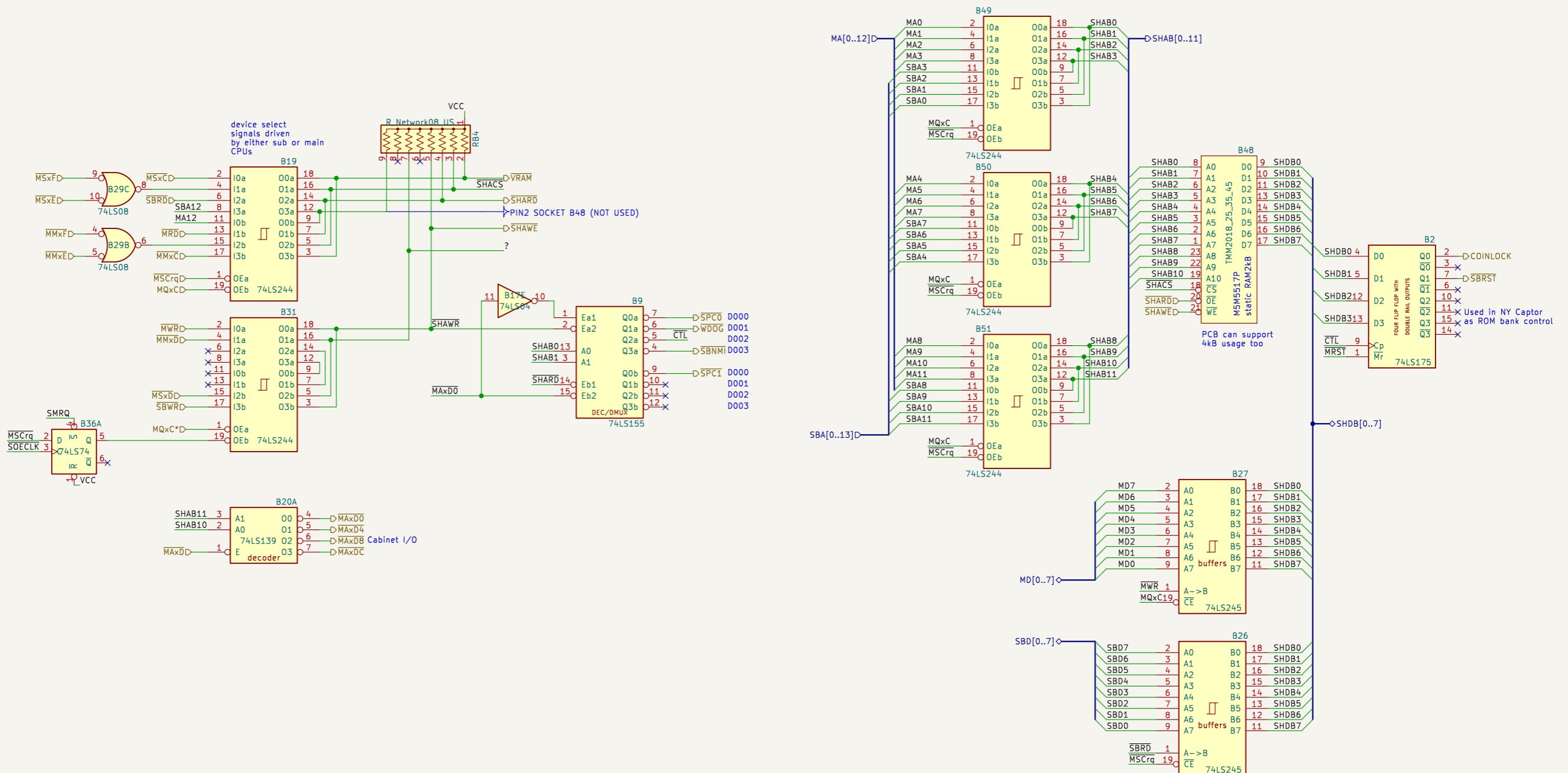
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Sheet: /Video/Video RAM/
File: vram.kicad_sch

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

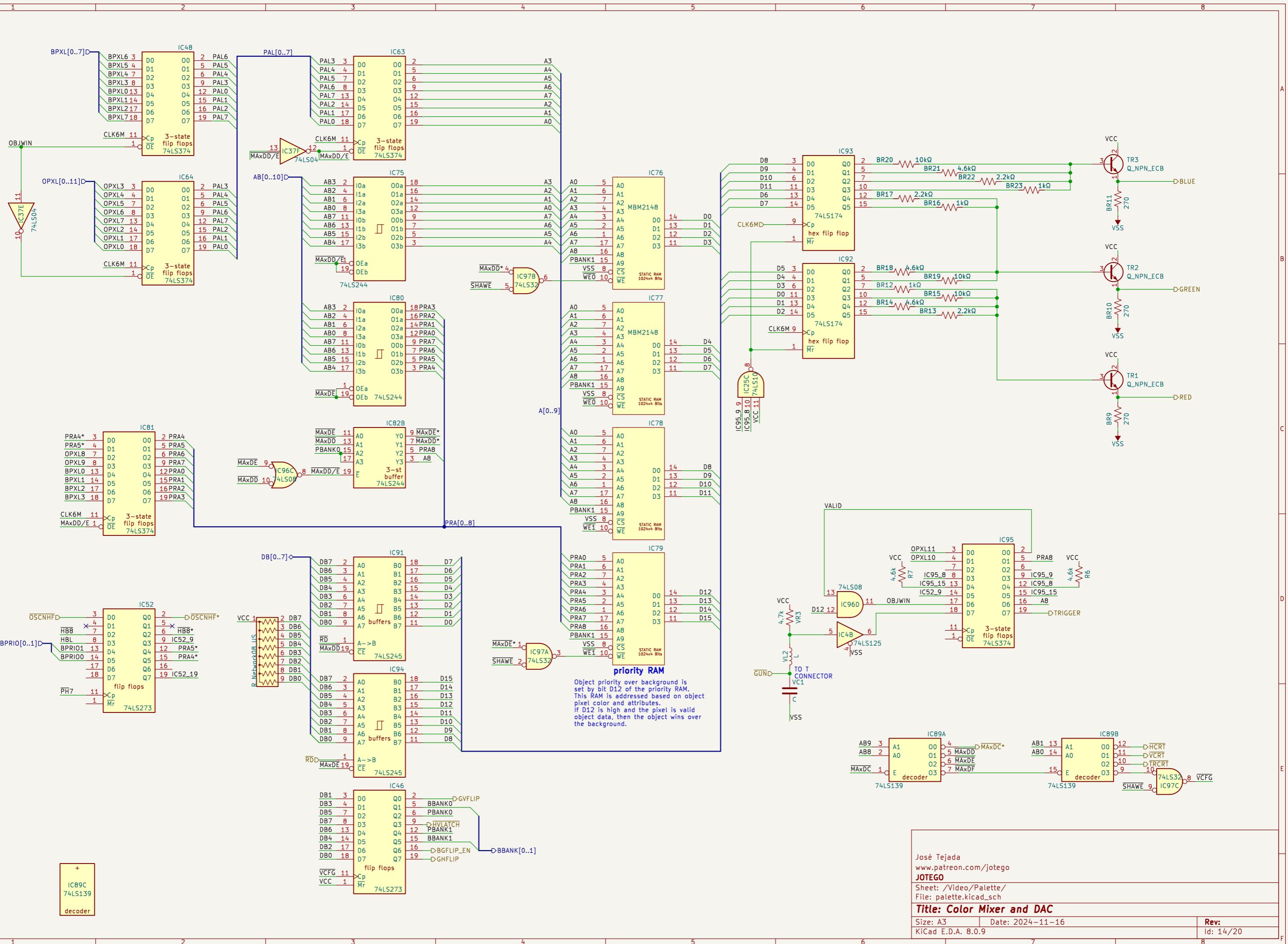
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Sheet: /Main/MCU/
File: mcu.kicad_sch

Title: MCU

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

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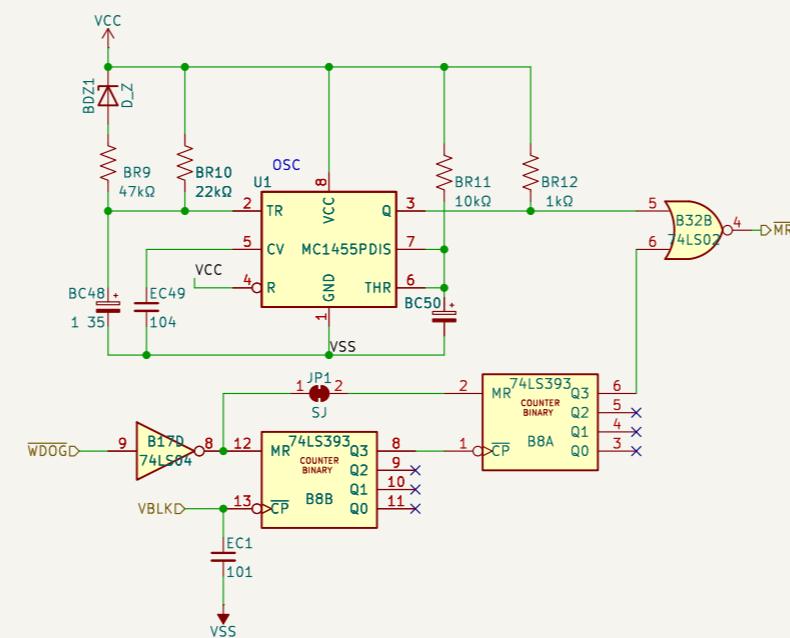
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Sheet: /Video/Palette/
File: palette.kicad_sch

Title: Color Mixer and DAC

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

Rev:
Id: 14/20



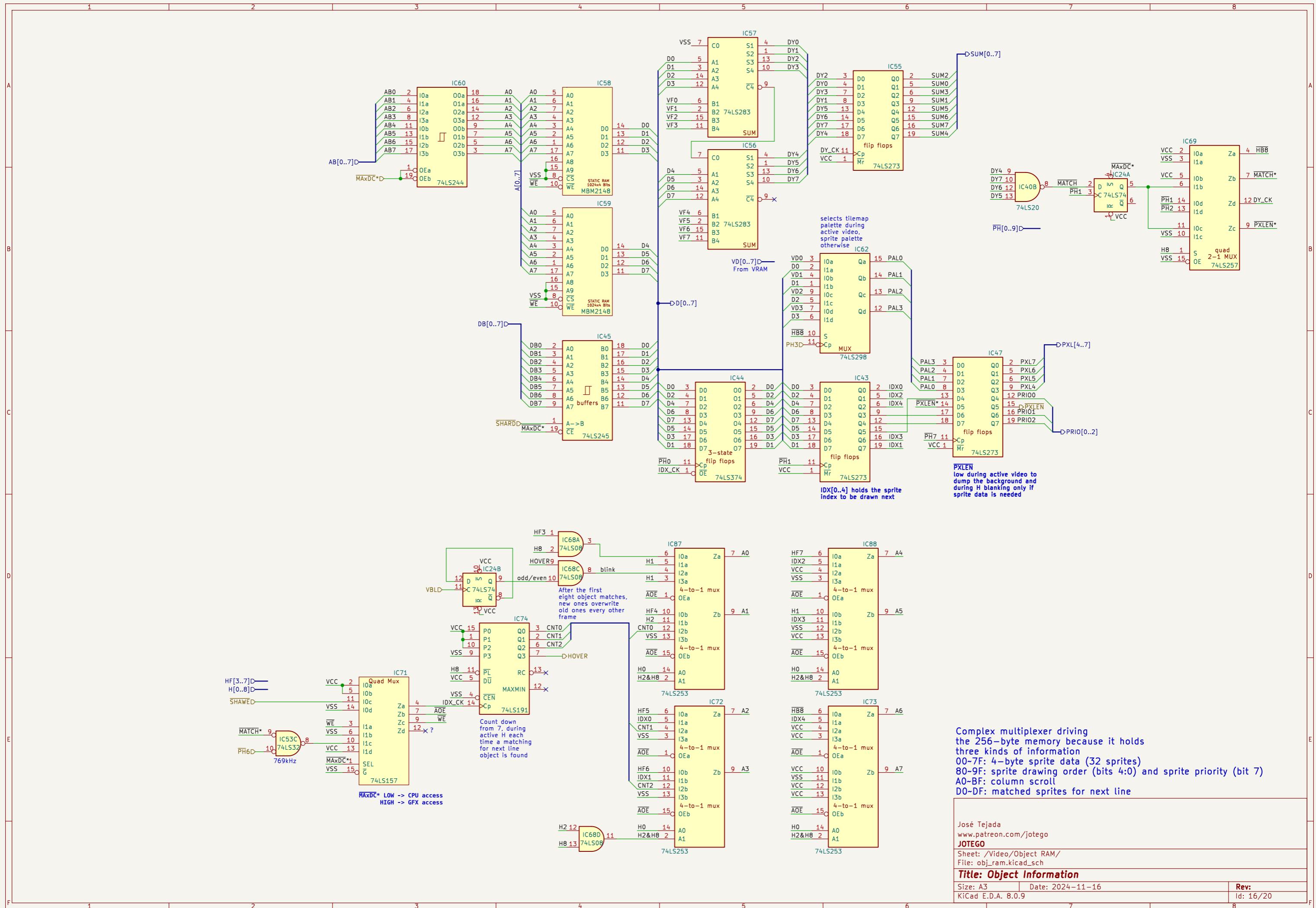
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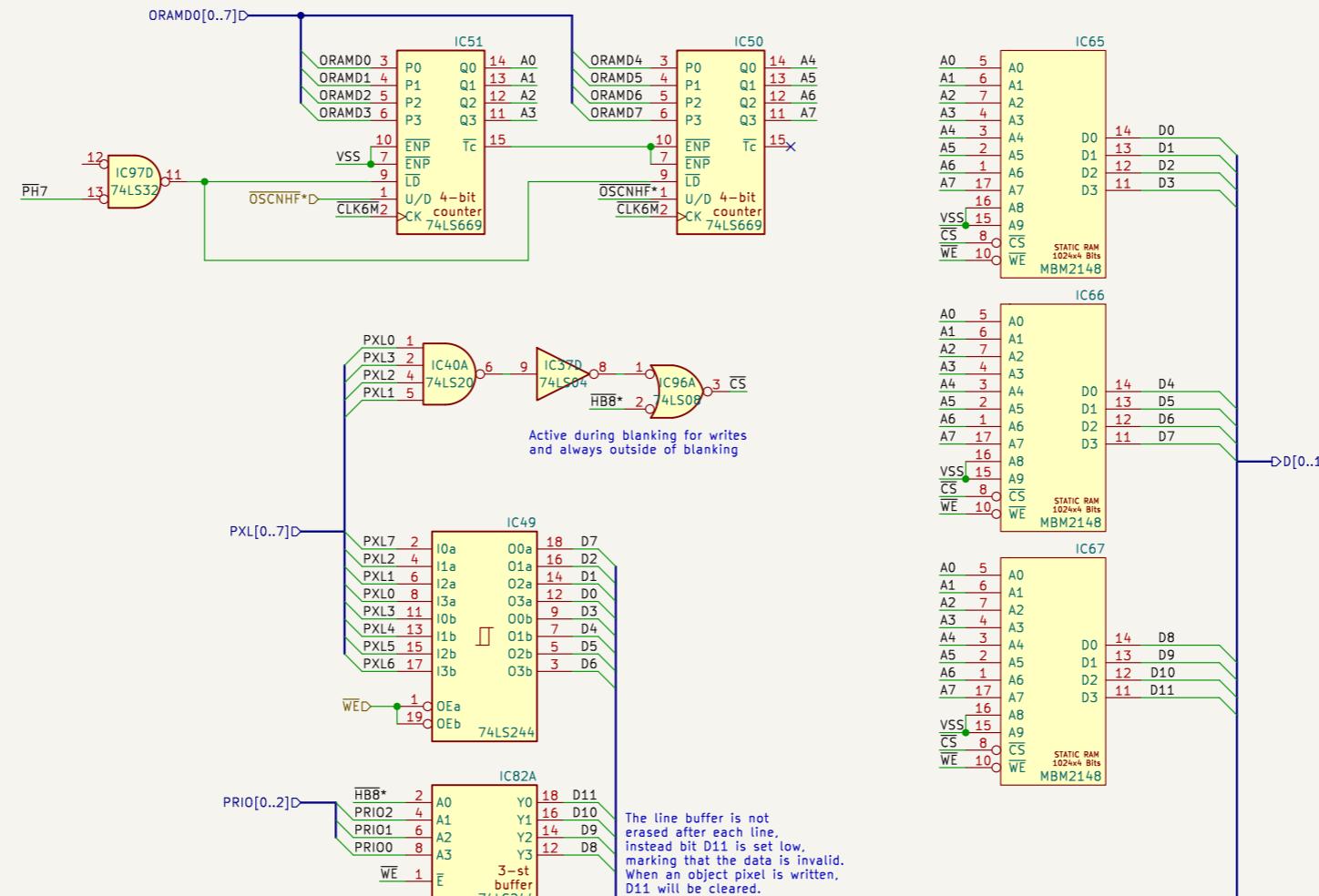
Sheet: /Main/Watchdog/
File: watchdog.kicad_sch

Title:

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

Rev:
Id: 15/20



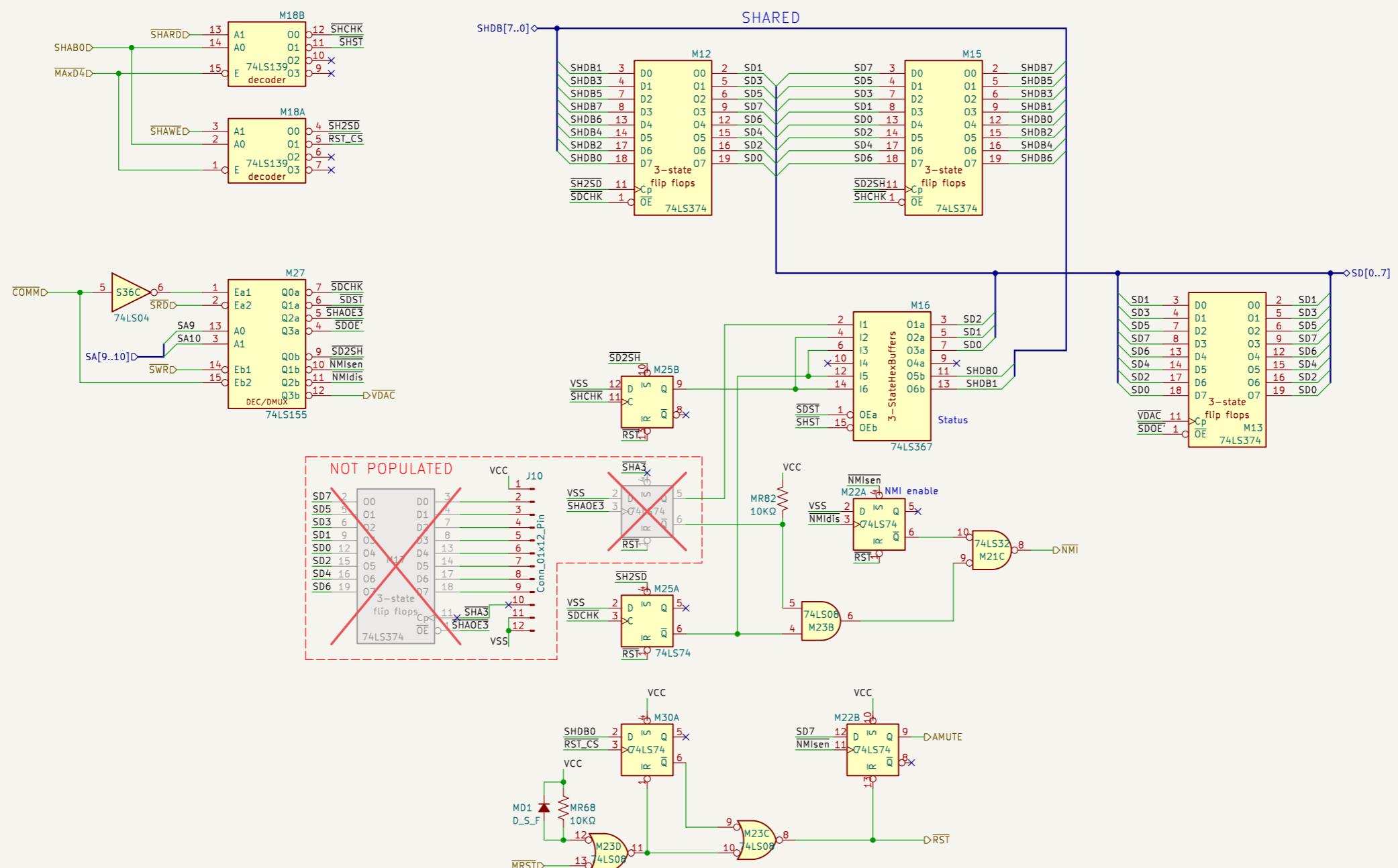


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Sheet: /Video/Line buffer/
File: linebuf.kicad_sch

Title: Single Line Video Buffer

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



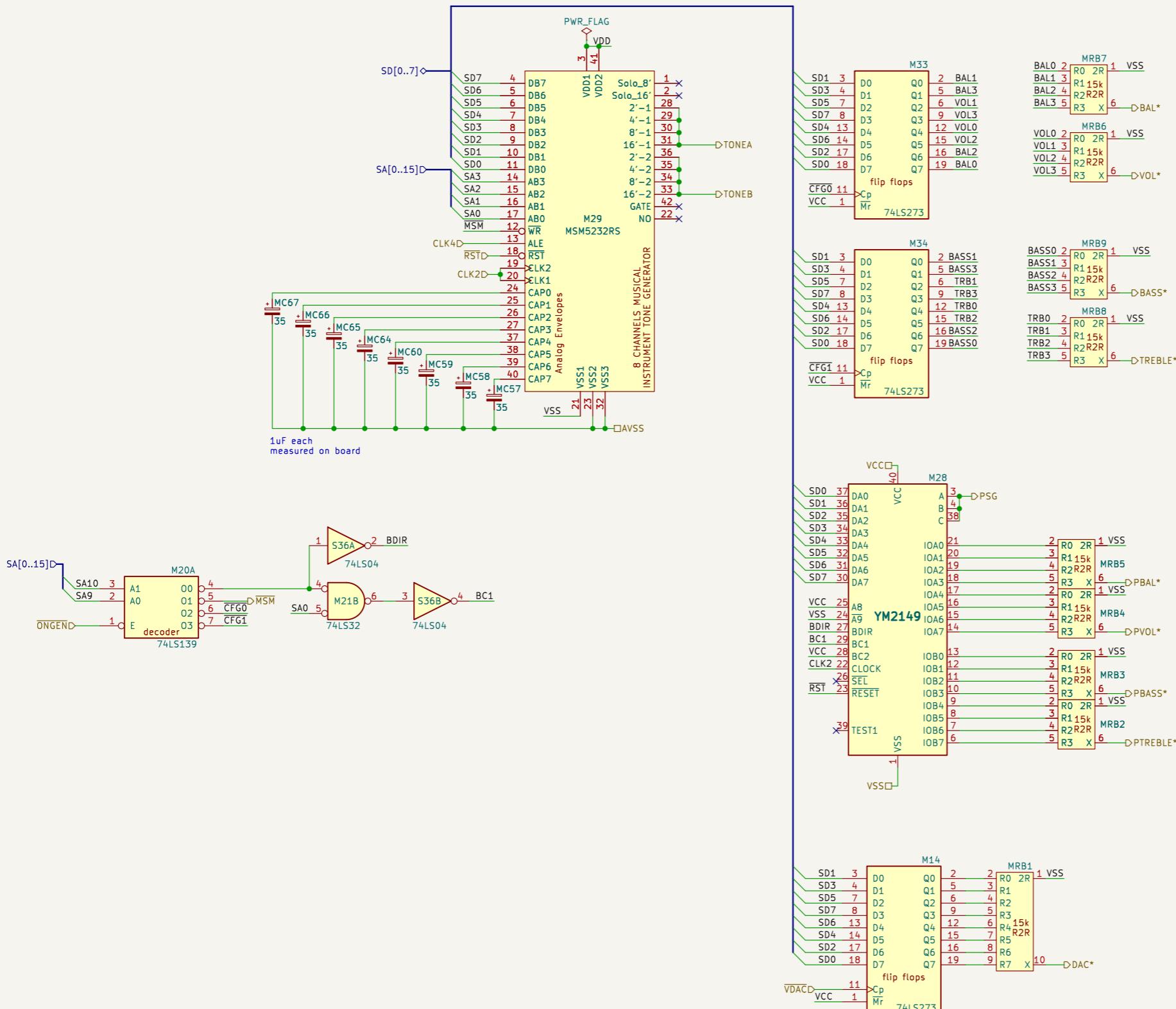
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Sheet: /Sound/Latches/
File: latches.kicad_sch

Title: Communication Latches

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

Rev:
Id: 18/20



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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

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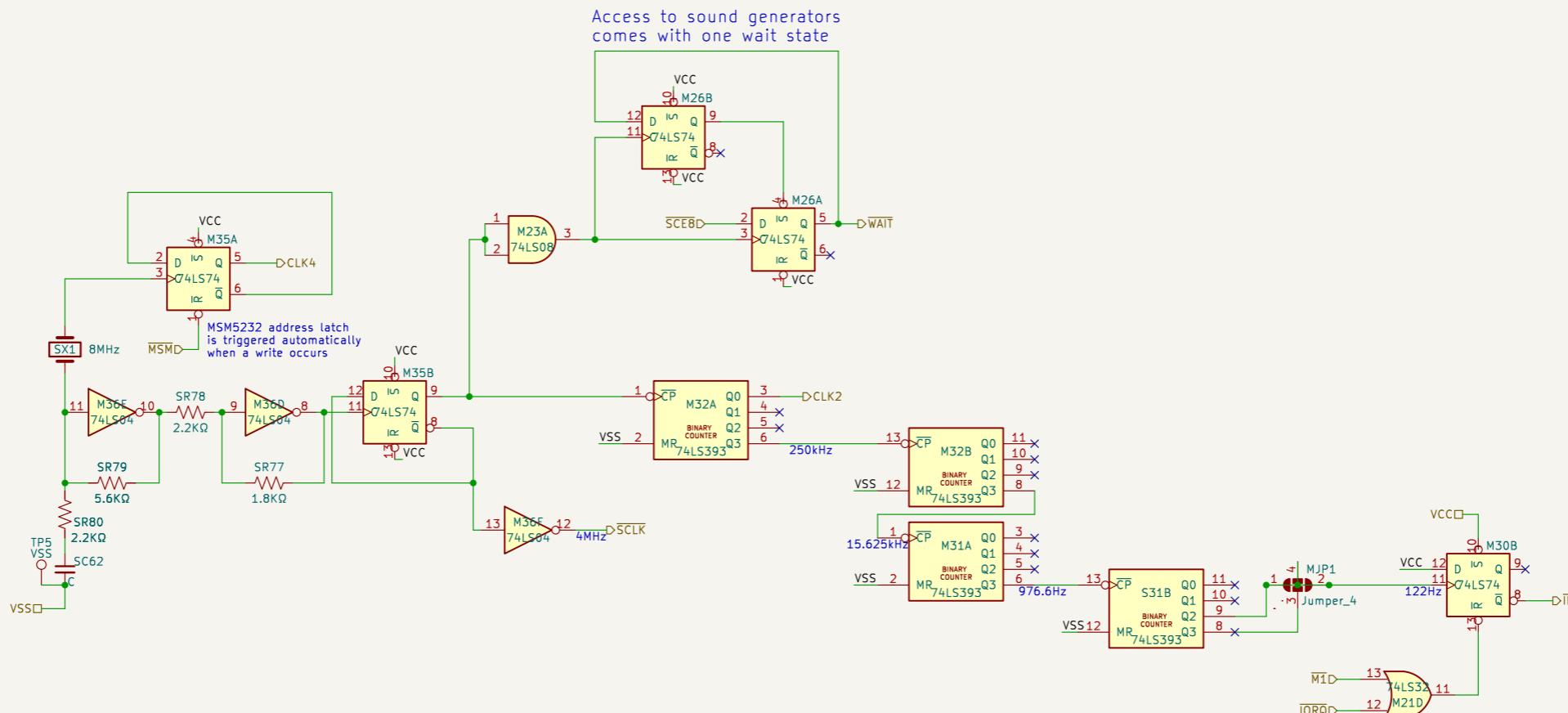
D

E

E

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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