

José Tejada
www.patreon.com/jotego
JOTEGO

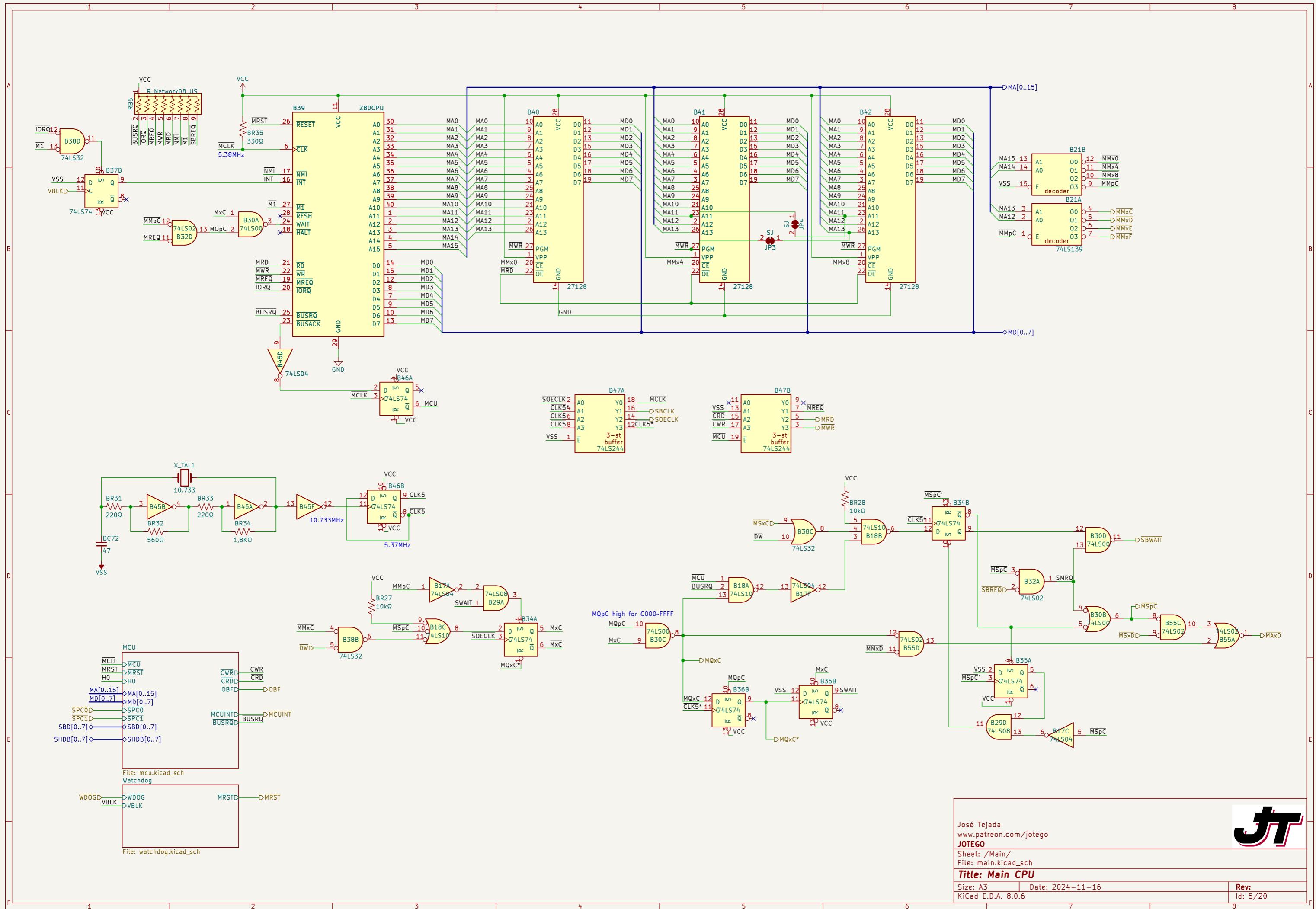
Sheet: /Video/

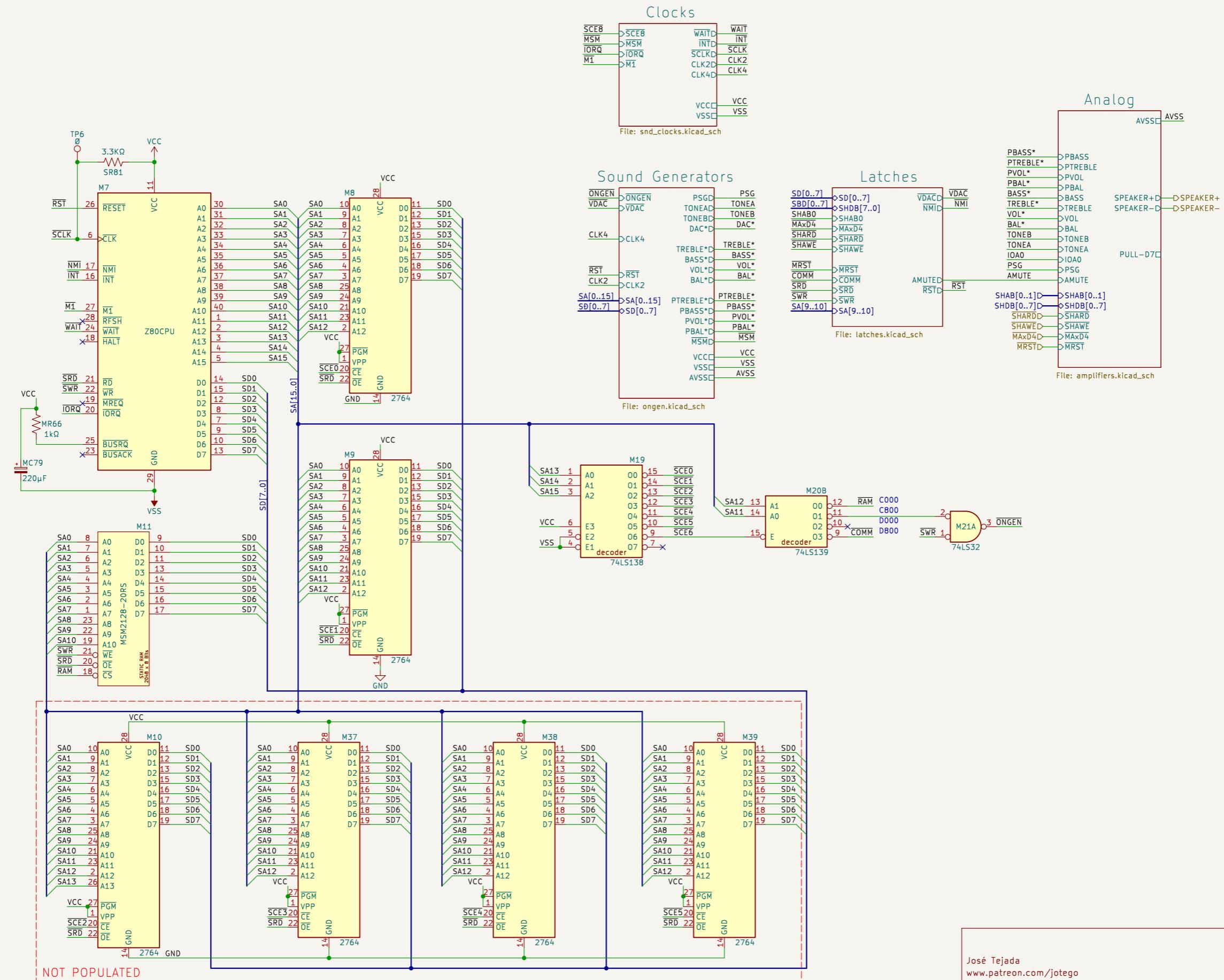
File: video.

Title: The Fairy

Size: A3 Date: 2

KiCad E.D.A. 8.0.6





José Tejada
www.patreon.com/jotego
JOTEGO

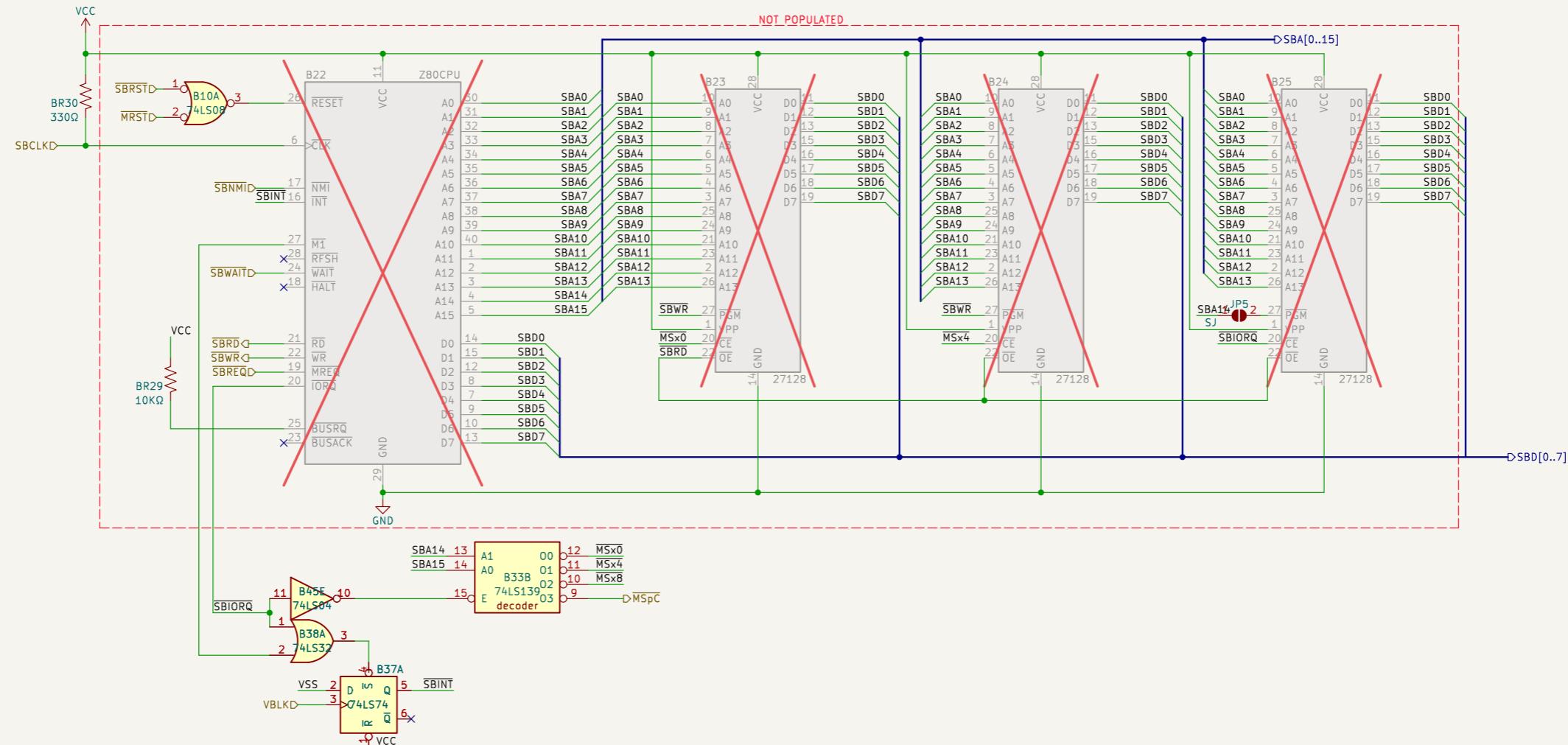
Sheet: /Sound/
 File: sound.kicad_sch

Title: Sound Board

Size: A3 | Date: 2024-11-16
 KiCad E.D.A. 8.0.6

Rev:
 Id: 7/20



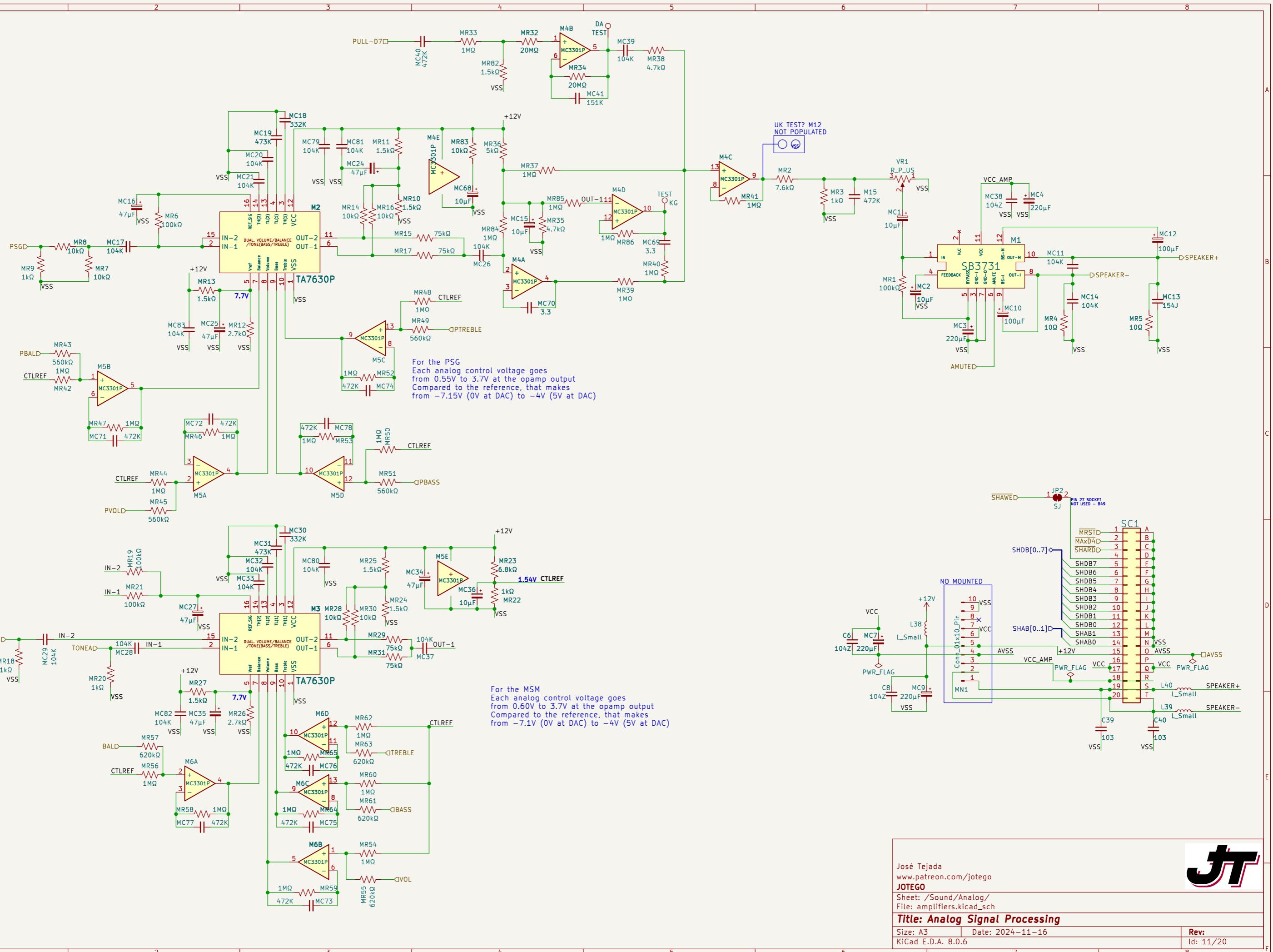


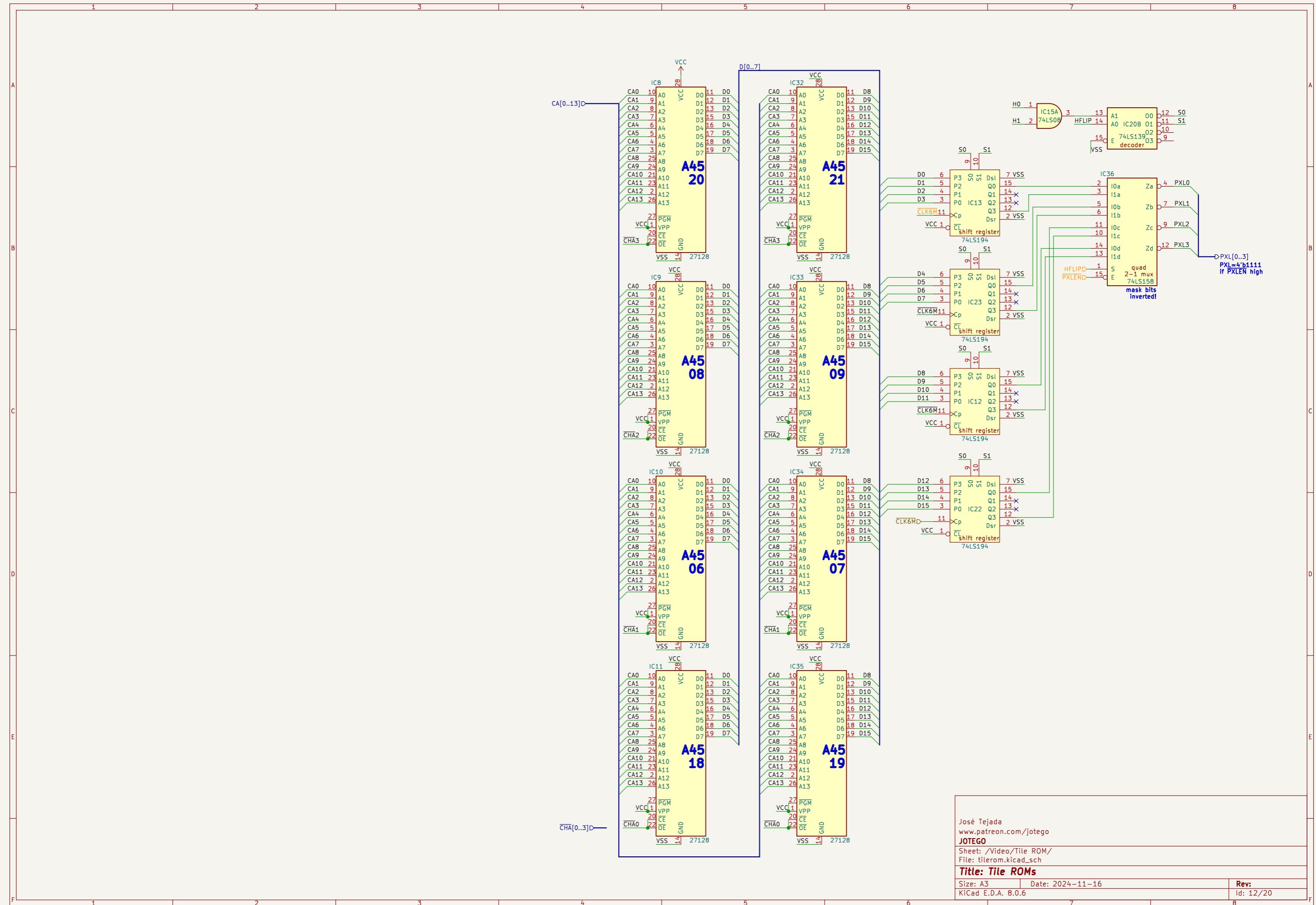
José Tejada
www.patreon.com/jotego
JOTEGO

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

Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.6

Rev: 10/20





José Tejada
www.patreon.com/jotego

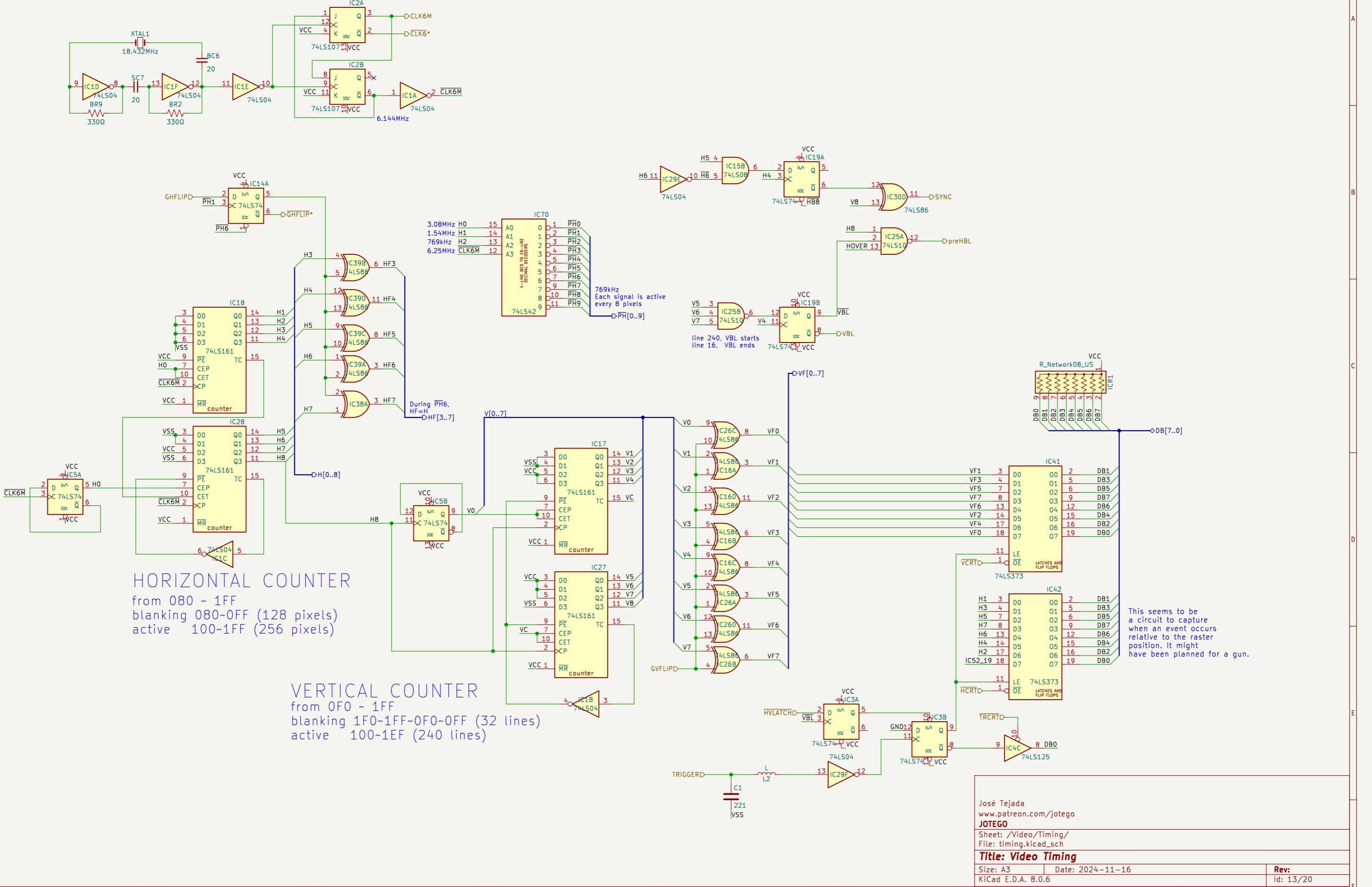
JOTEGO

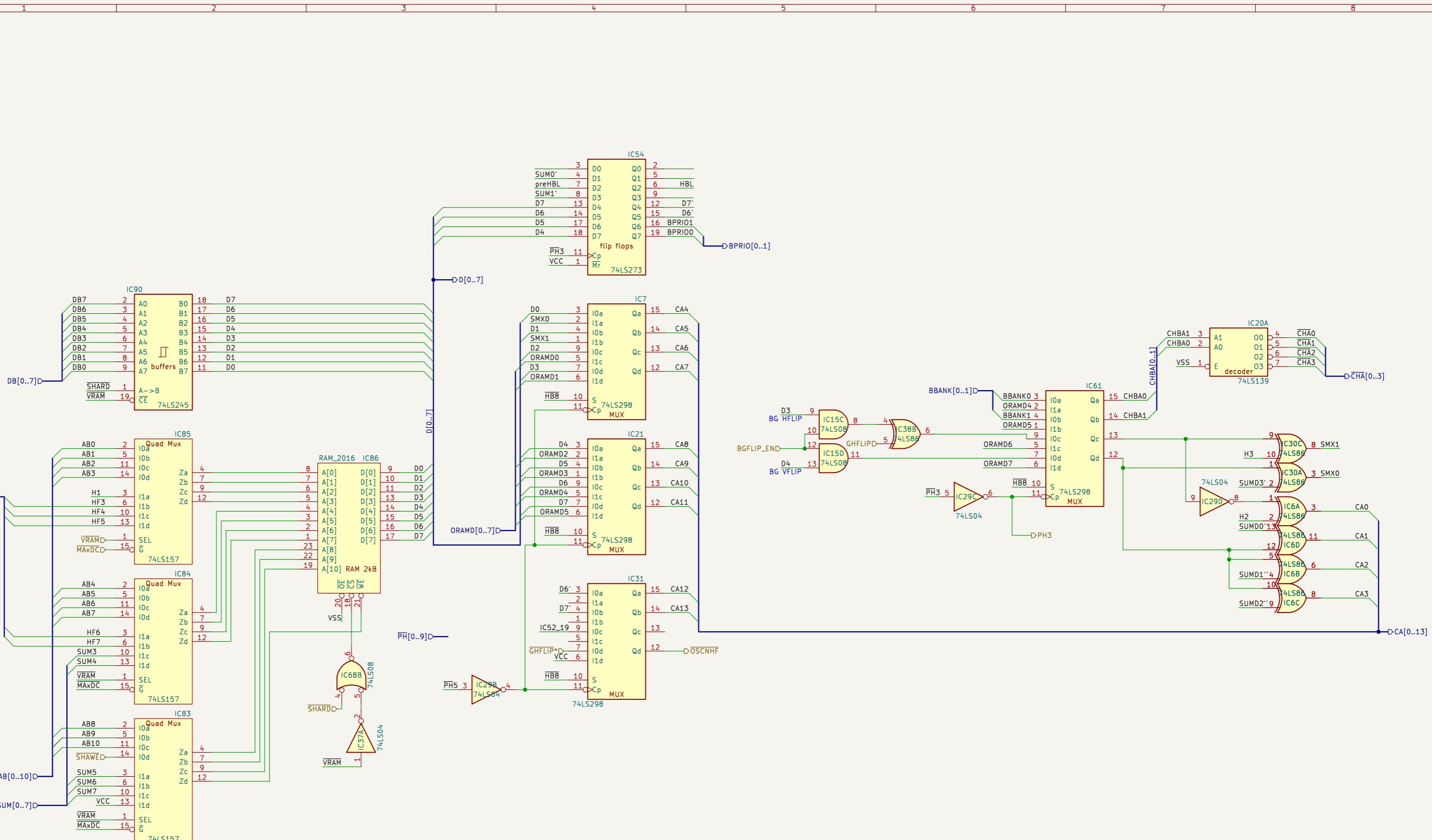
Sheet: /Video/Tile ROM/
File: tilerom.kicad_sch

Title: Tile ROMs

Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.6

Rev: 12/20





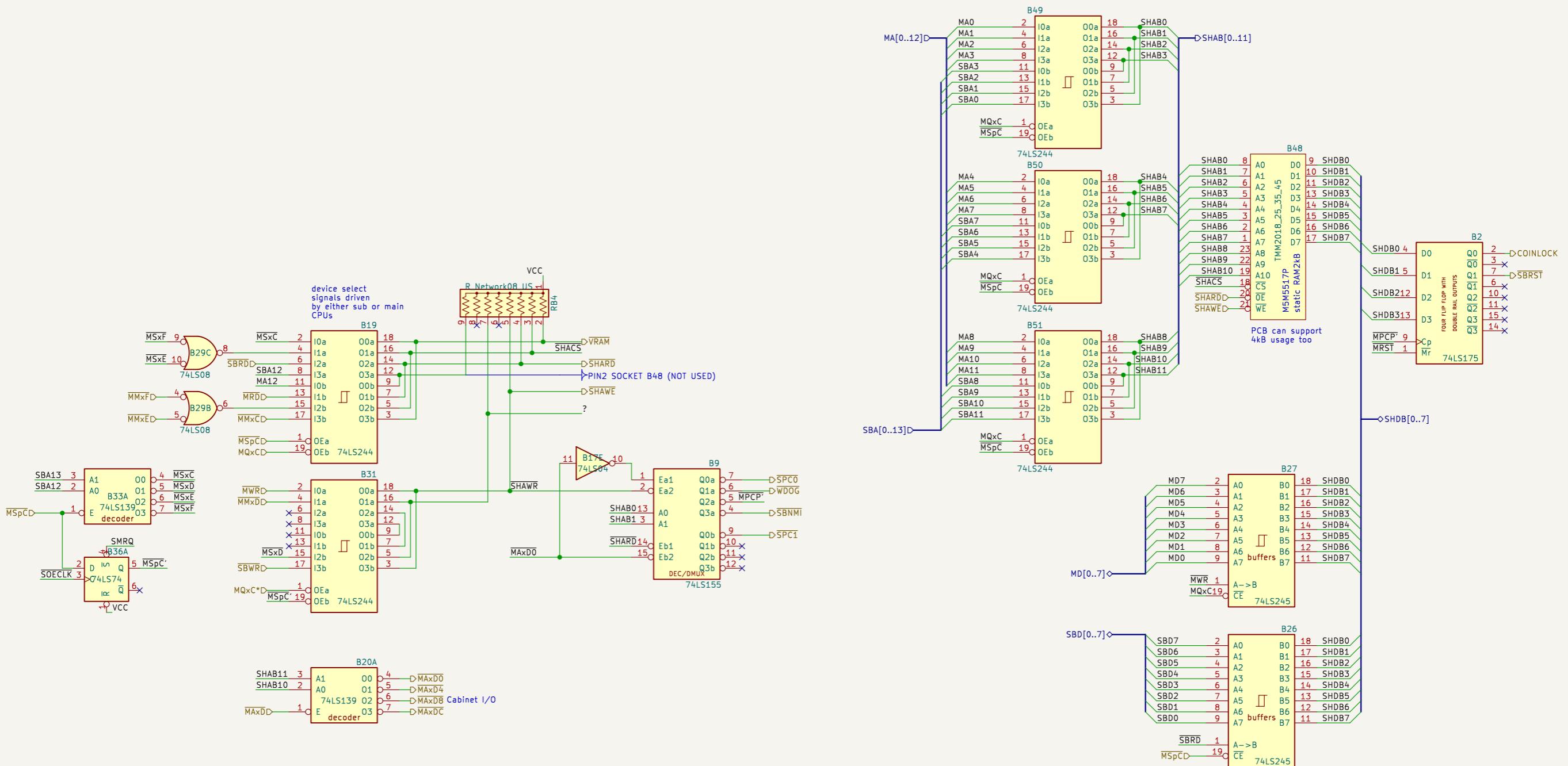
José Tejada
www.patreon.com/jotego
JOTEGO

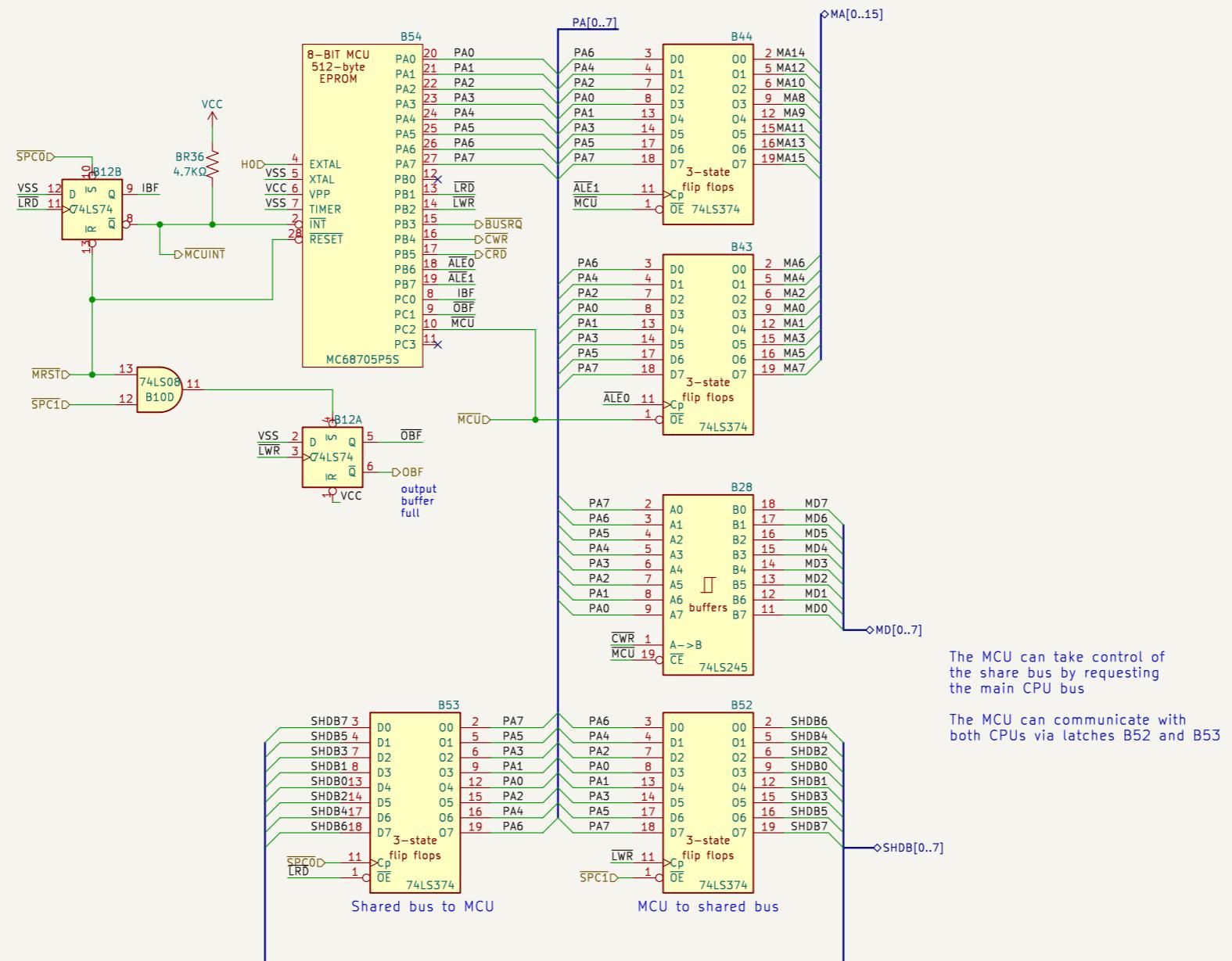
Sheet: /Video/Video RAM/
File: vram.kicad_sch

Title: Background Video RAM

Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.6

Rev:
Id: 13/20





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

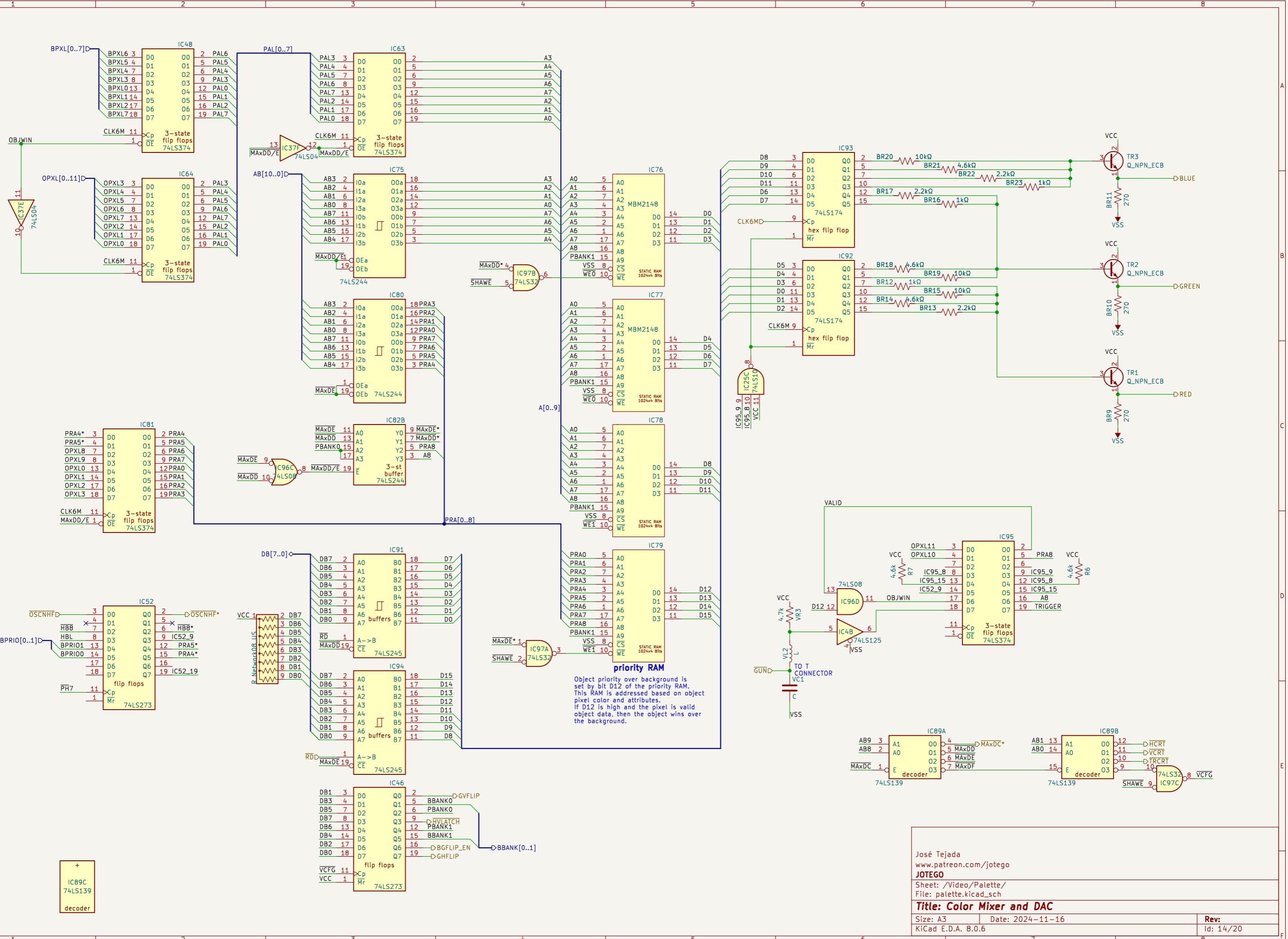
The MCU can communicate with both CPUs via latches B52 and B53

José Tejada
www.patreon.com/jotego
JOTEGO

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

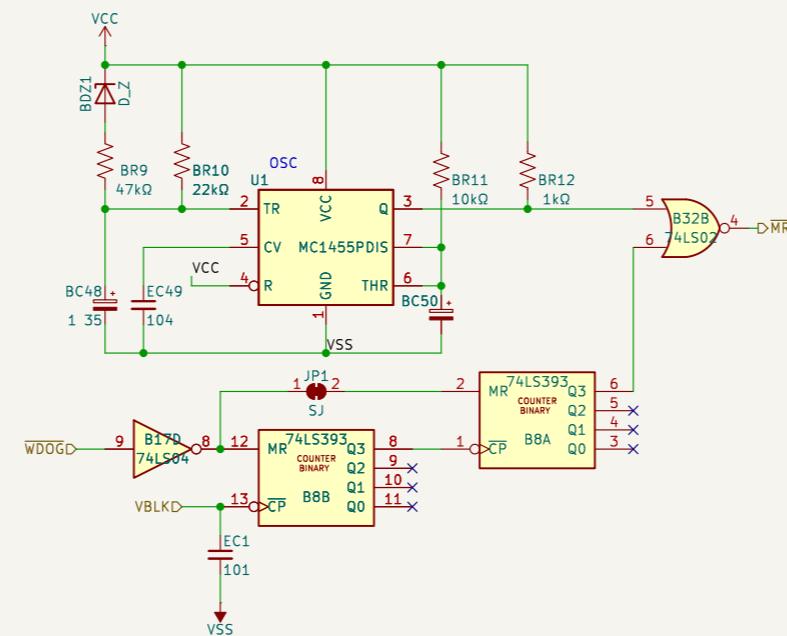
Title: MCU

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.6



José Tejada
www.patreon.com/jotego
JOTEGO
Sheet: /Video/Palette/
File: palette.kicad_sch

Title: Color Mixer and DAC
Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.6 | Rev: 14/20



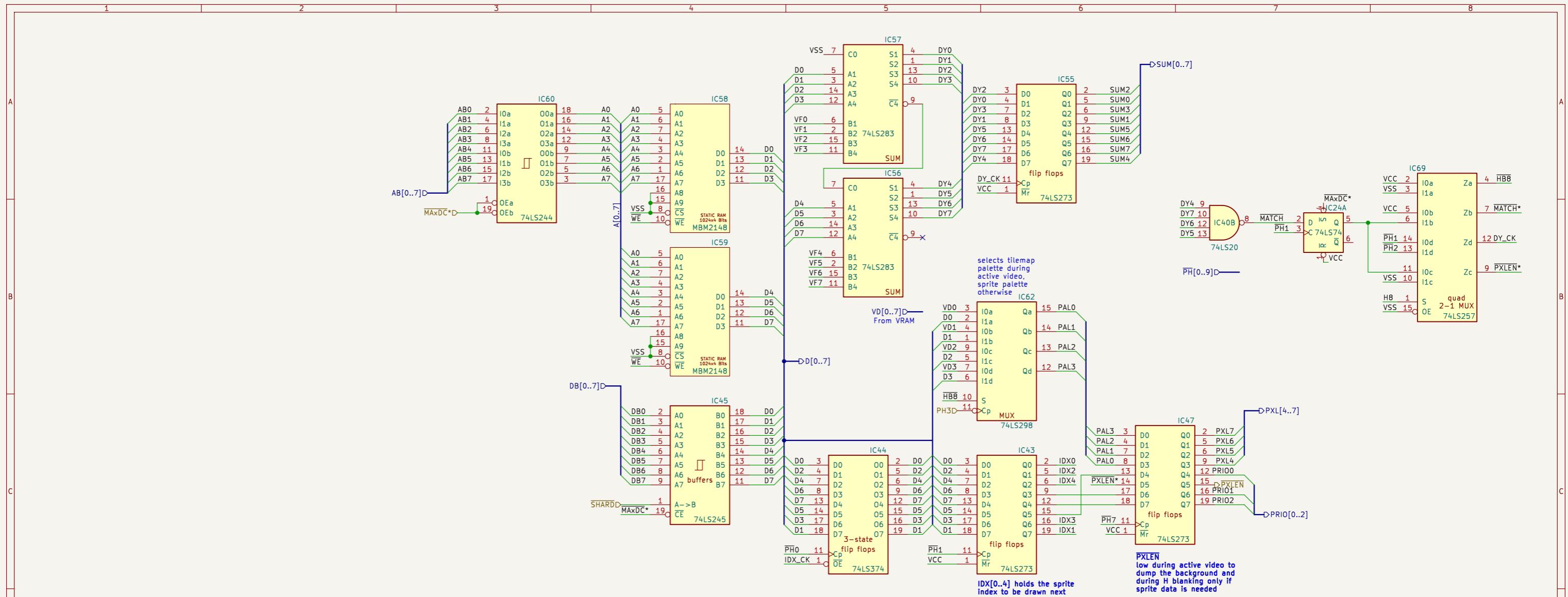
José Tejada
www.patreon.com/jotego
JOTEGO

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

Title:

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.6

Page 1



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

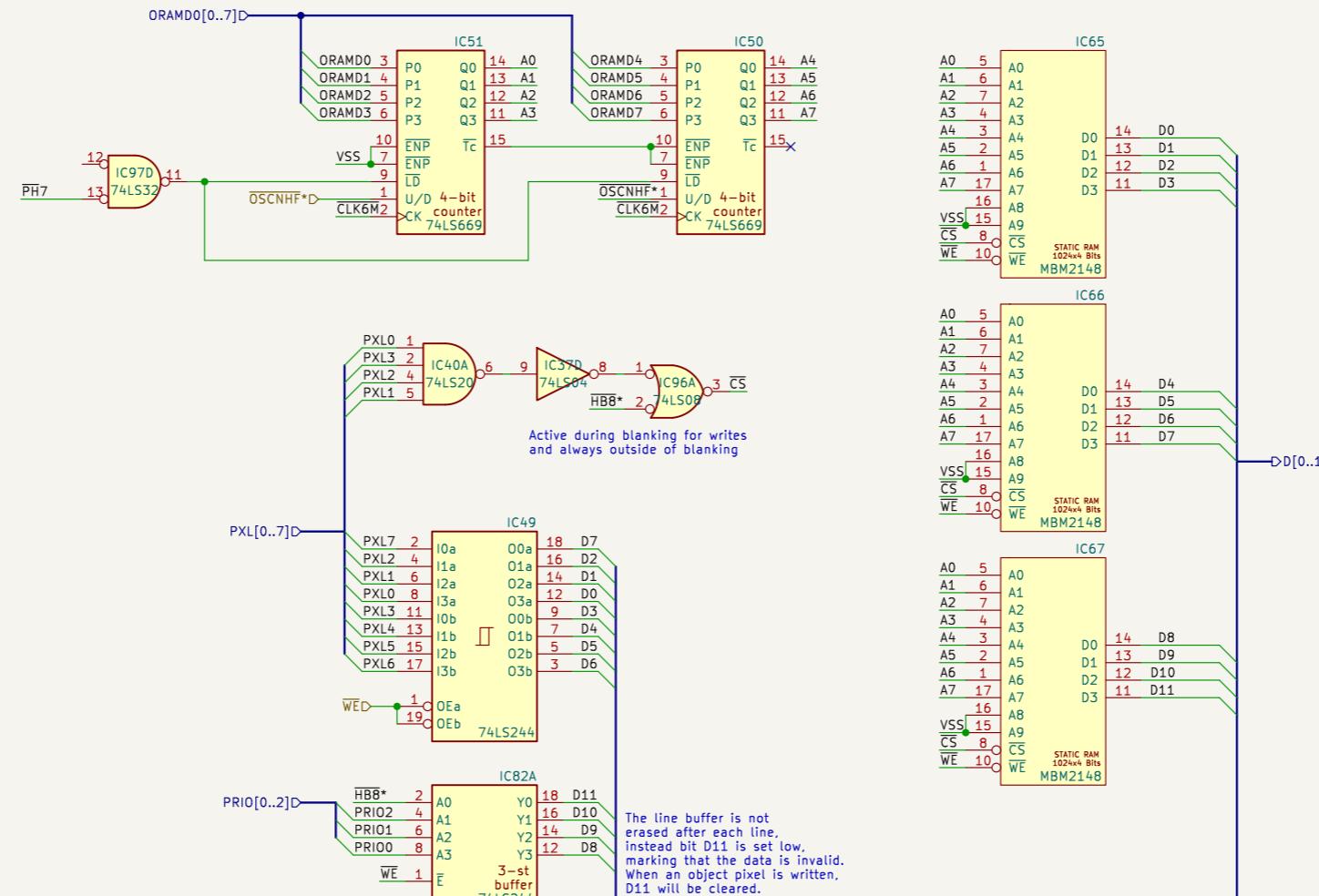
JOTEGO

Title: Object Information

Size: A3 Date: 2024-11-16

KiCad E.D.A. 8.0.6

1 / 1

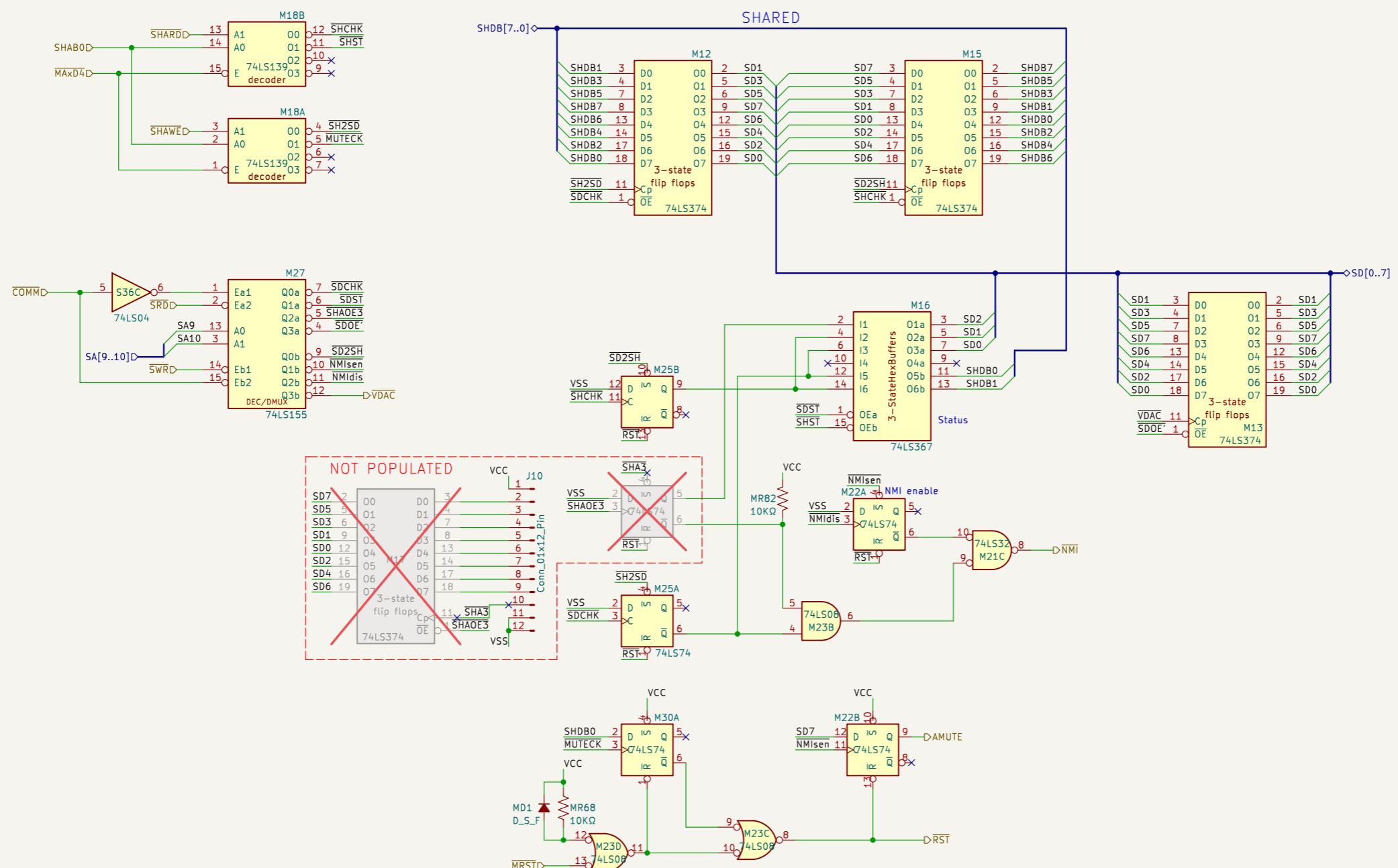


José Tejada
www.patreon.com/jotego
JOTEGO

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

Title: Single Line Video Buffer

Size: A3	Date: 2024-11-16
KiCad E.D.A. 8.0.6	Rev: 17/20



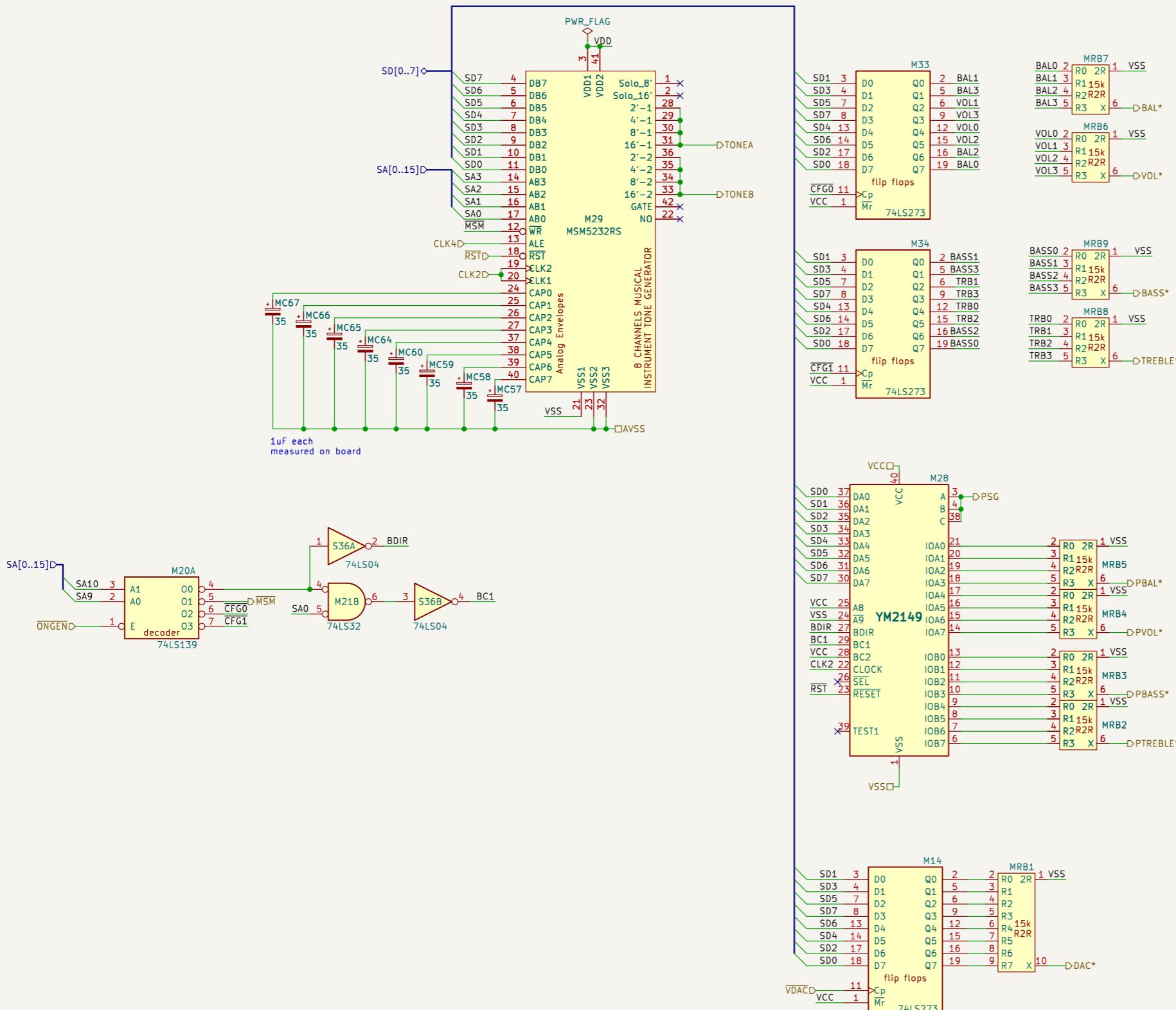
José Tejada
www.patreon.com/jotego
JOTEGO

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

Title: Communication Latches

Size: A3 | Date: 2024-11-16
KiCad E.D.A. 8.0.6

Rev:
Id: 18/20



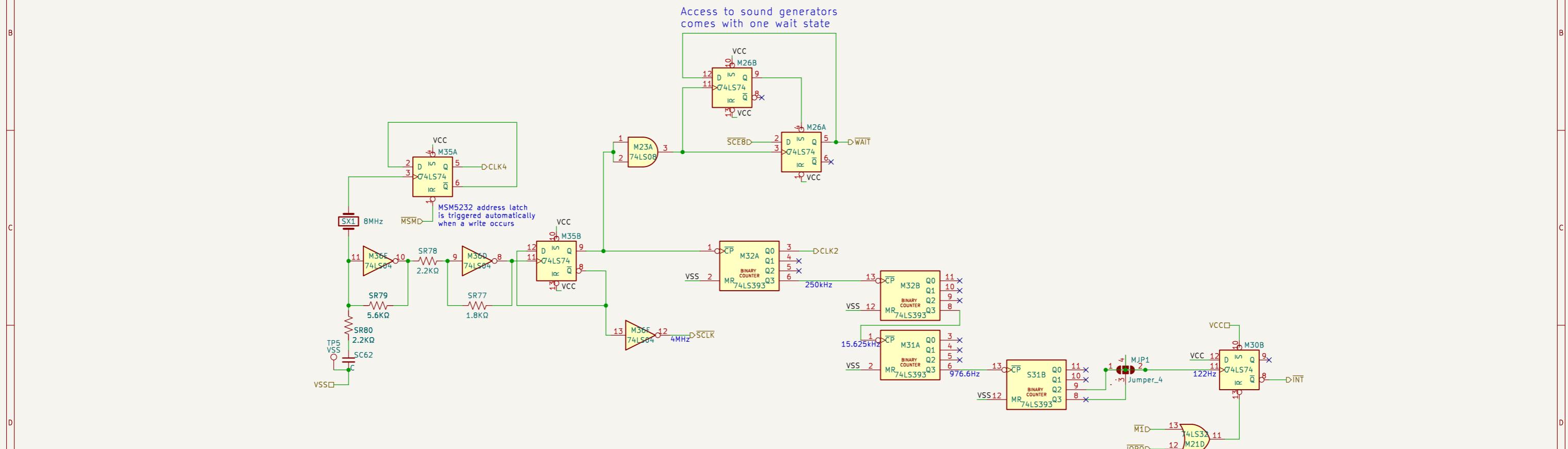
José Tejada
www.patreon.com/jotego
JOTEGO

Sheet: /Sound/Sound Generators/
File: ongen.kicad_sch

Title: Sound Generators

Size: A3 Date: 2024-11-16
KiCad E.D.A. 8.0.6

Rev: Id: 19/20



José Tejada
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. 8.0.6

Rev: Id: 20/20