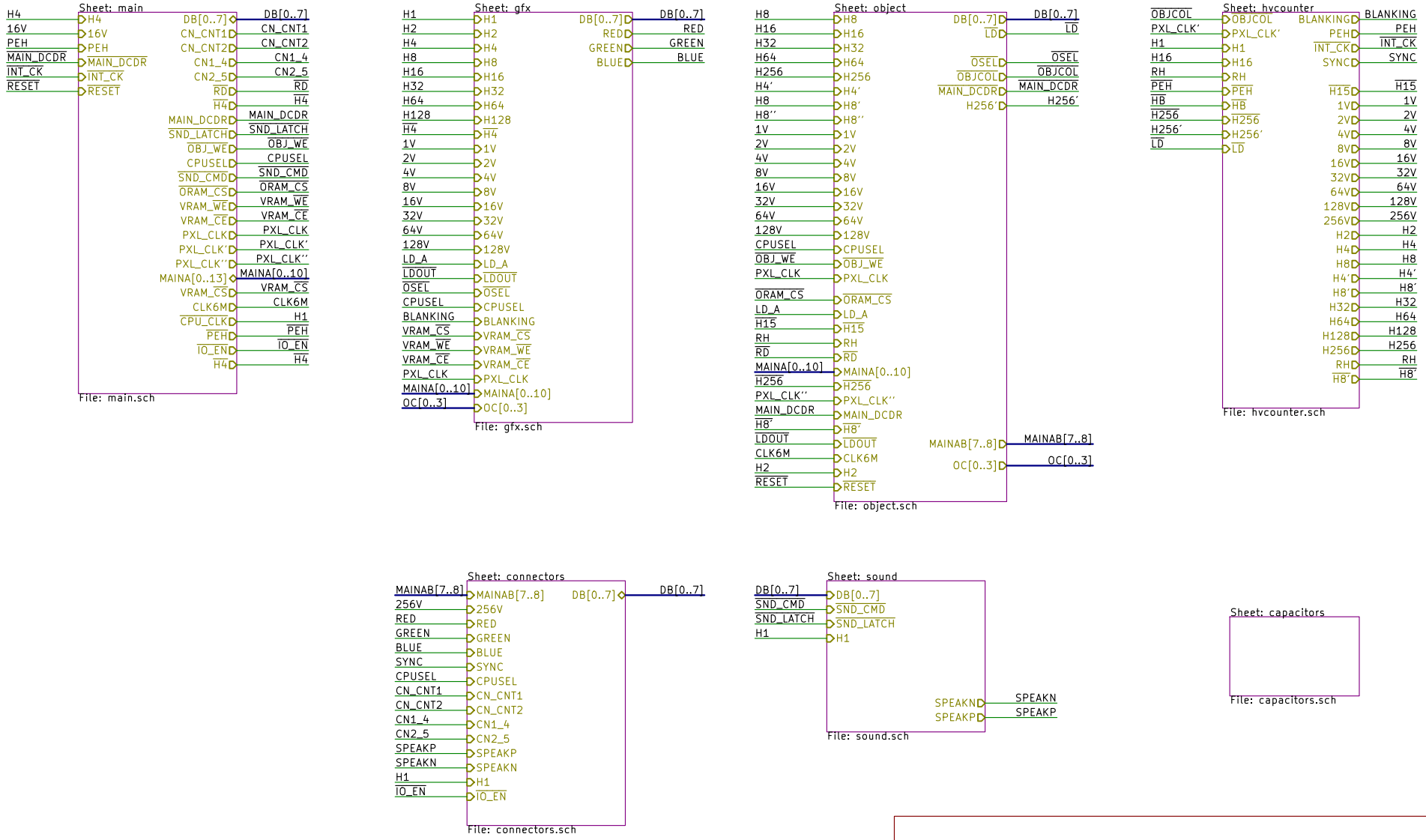


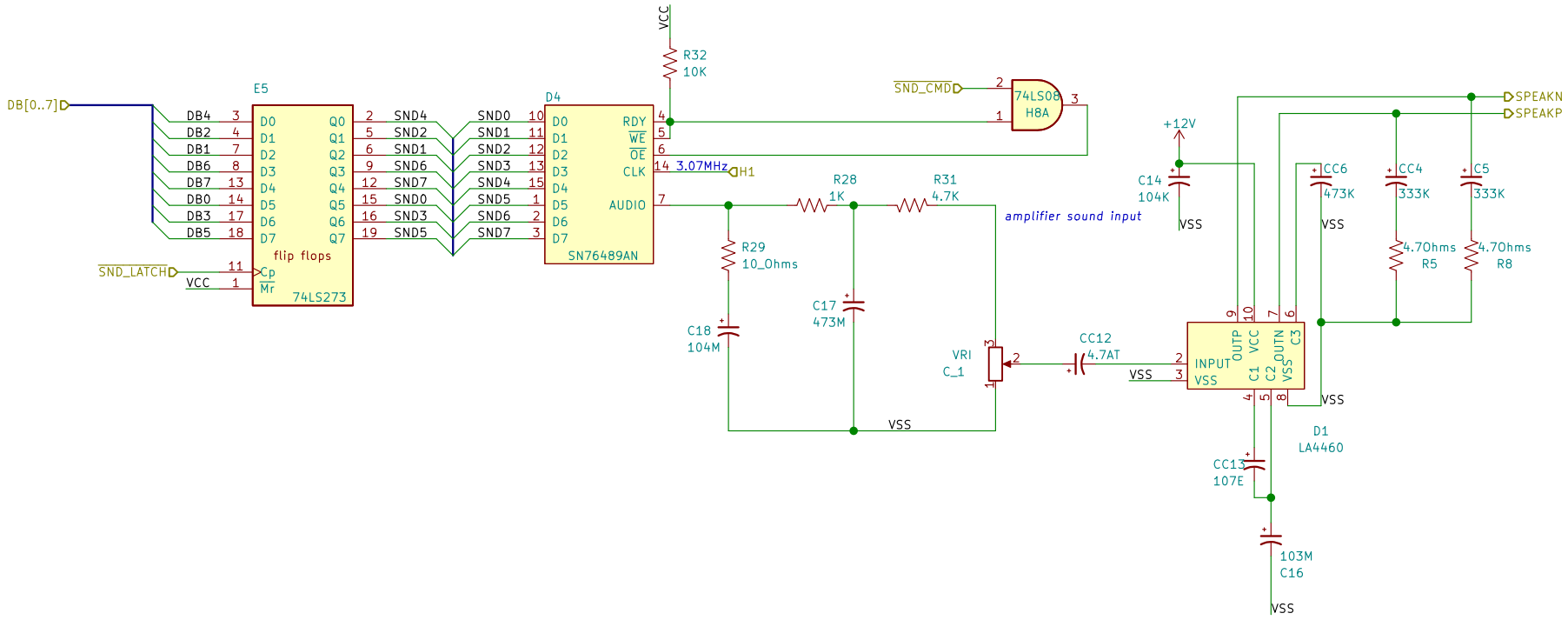
Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /
File: pingpong.sch

GX555

Title: Ping Pong

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A.	kicad 5.1.12-84ad8e8a8692ubuntu20.04.1	Id: 1/11

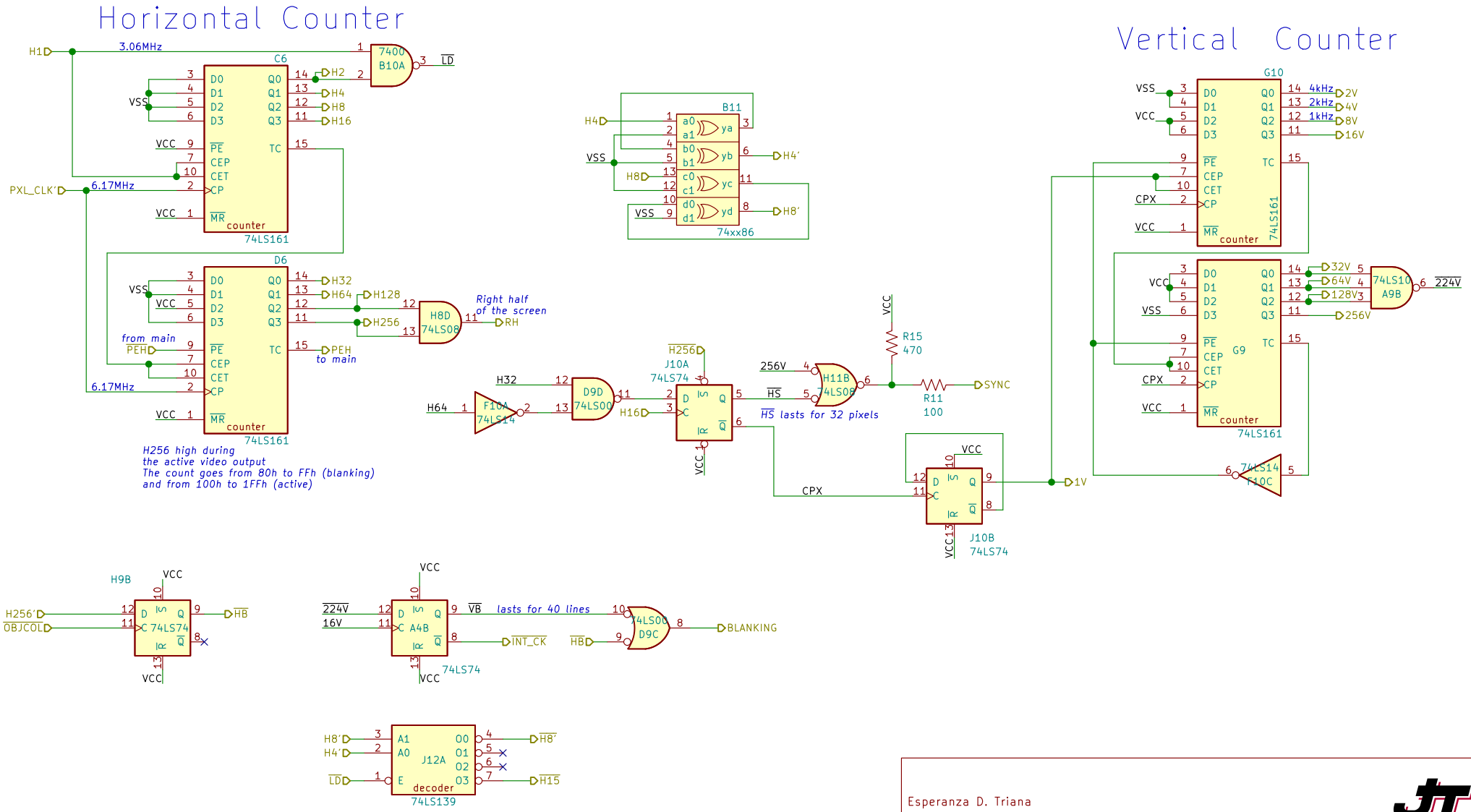


Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /sound/
File: sound.sch

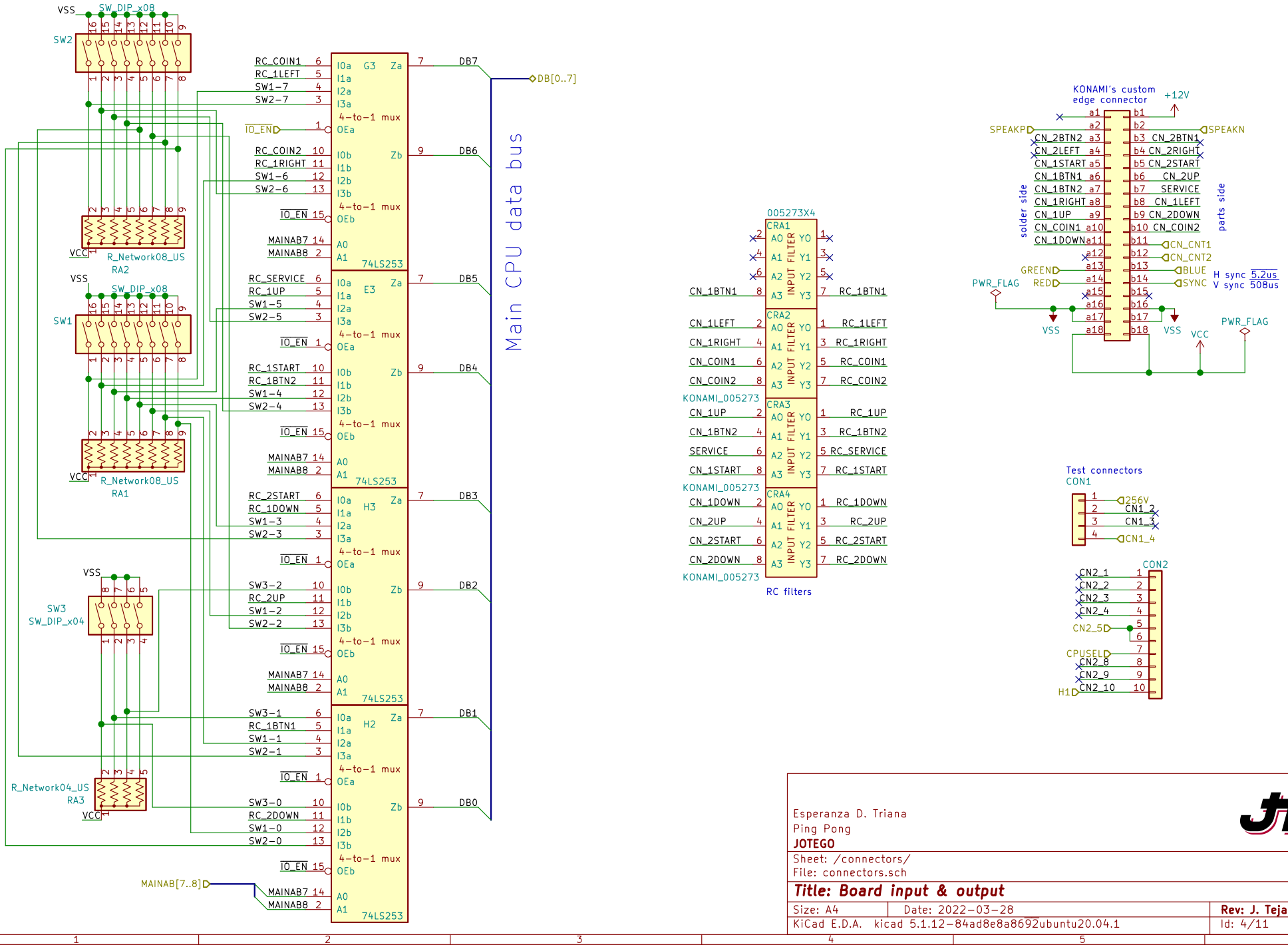
Title: Sound generator

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 2/11



Esperanza D. Triana Ping Pong **JOTEGO**	
Sheet: /hvcounter/ File: hvcounter.sch	
Title: Horizontal and vertical counters	
Size: A4	Date: 2022-03-28
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1	Id: 3/11

Rev: J. Tejada

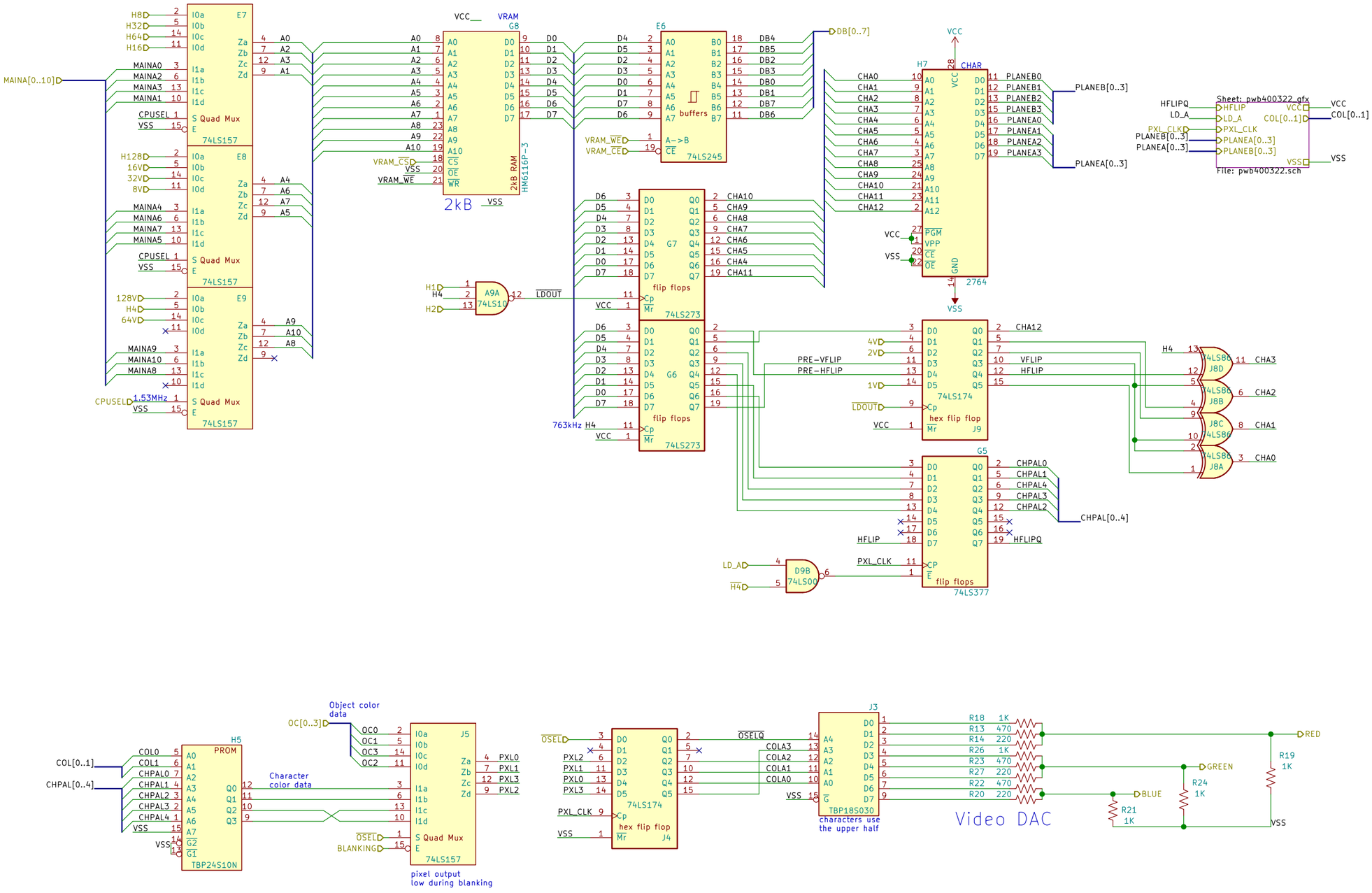


Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /connectors/
File: connectors.sch

Title: Board input & output

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 4/11

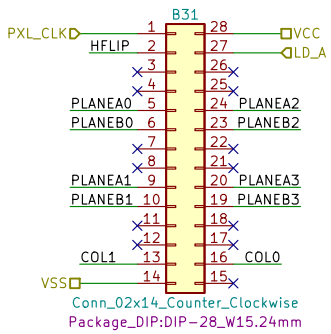


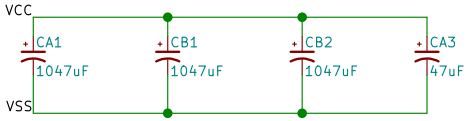
Esperanza D. Triana
Ping Pong
JOTEGO

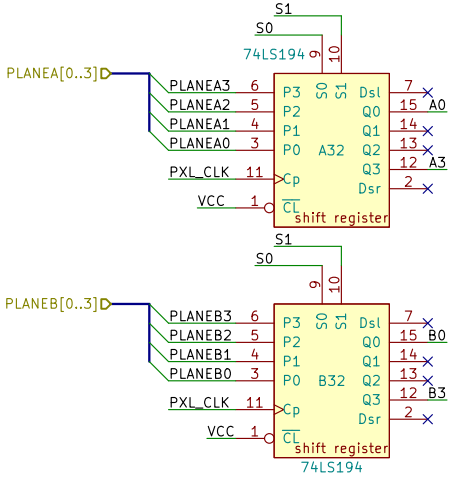
Sheet: /gfx/
File: gfx.sch

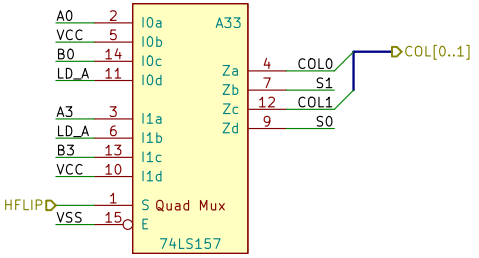
Title: Character generator

Size: A3	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 5/11









This is a small board soldered to a DIP-28 footprint. It appears twice in the design

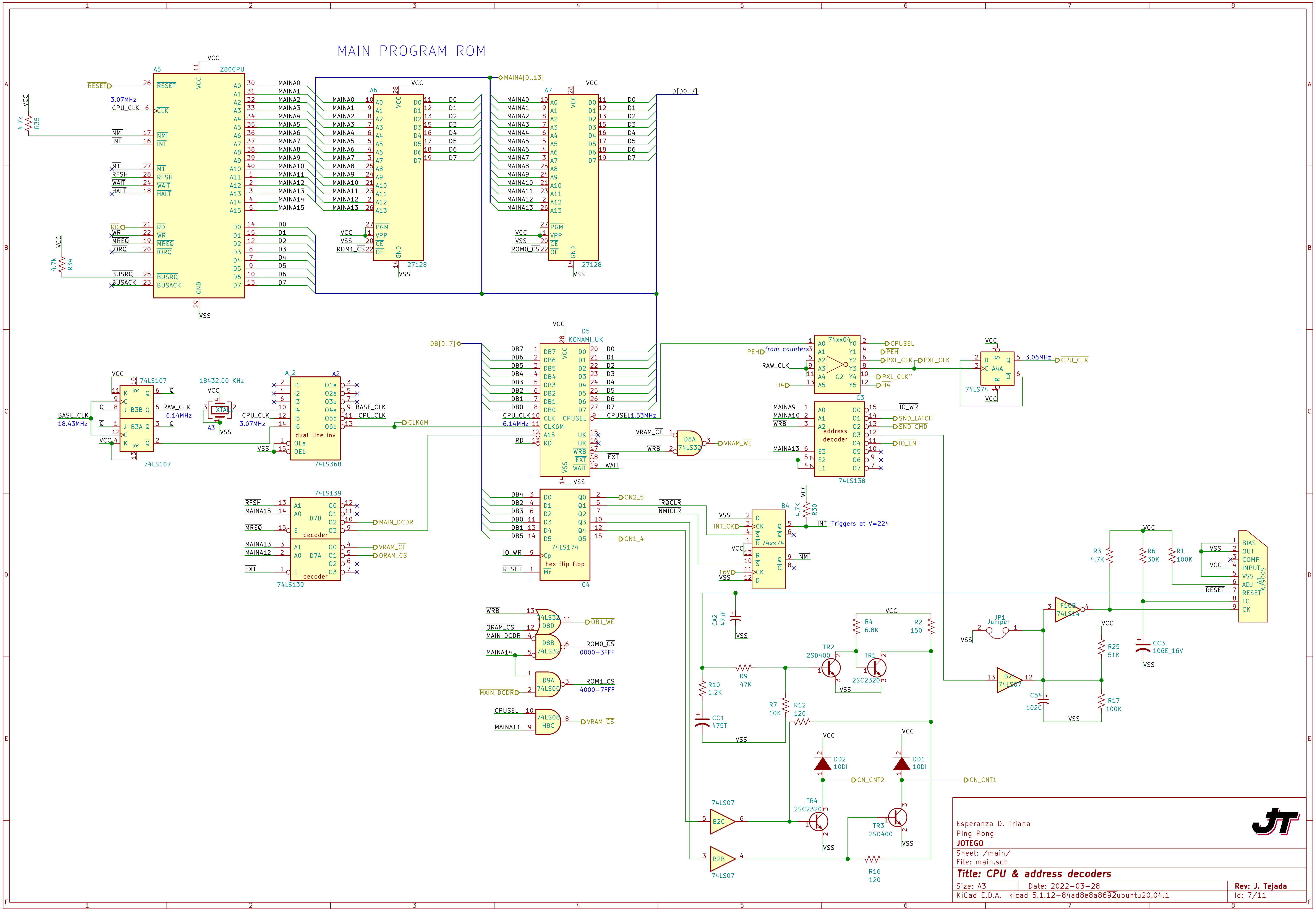
PWB-400322

Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /gfx/pwb400322_gfx/
File: pwb400322.sch

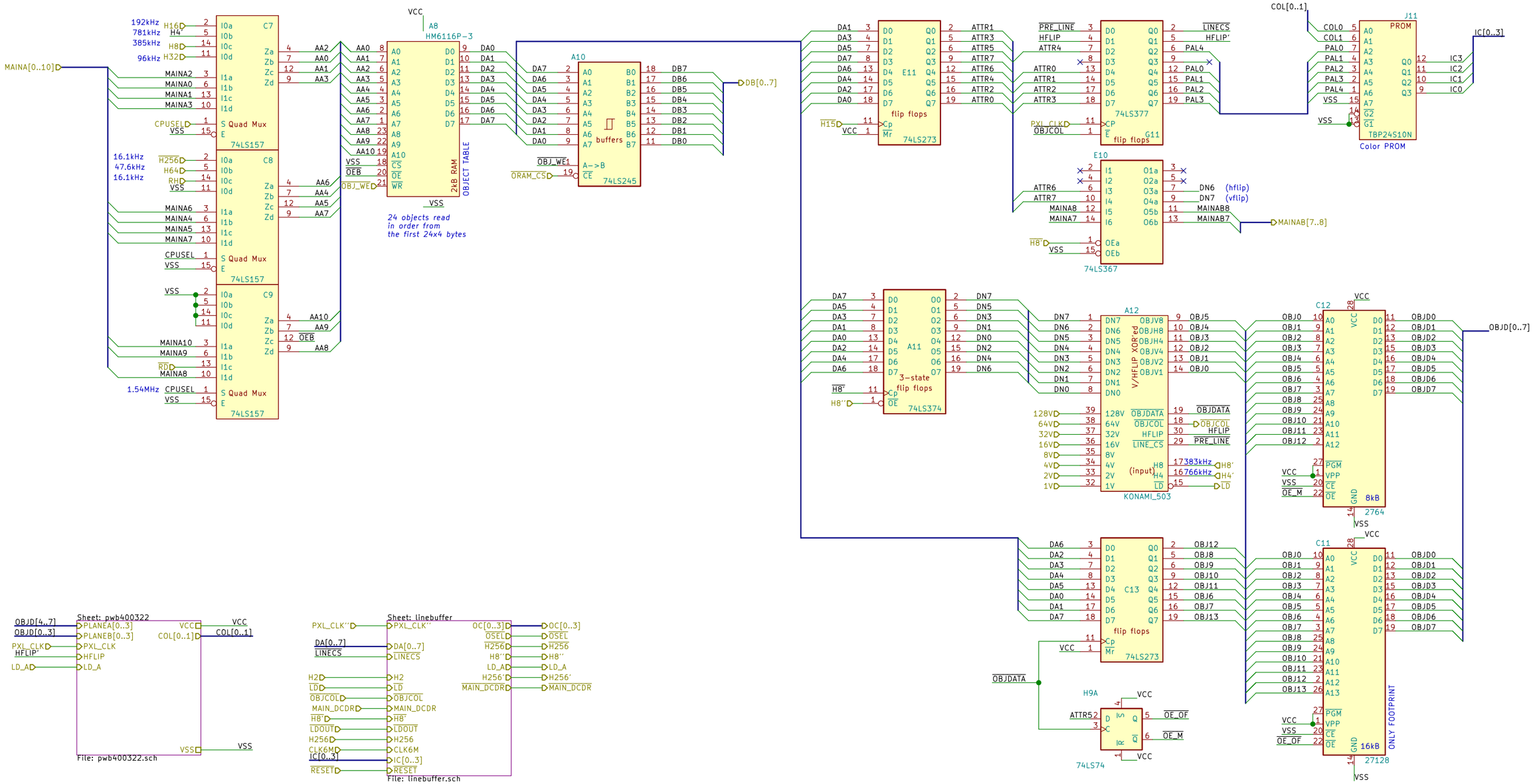
Title: Pixel shift register

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 6/11

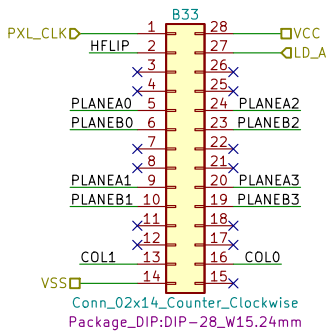


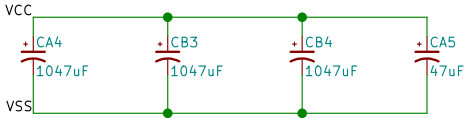
MAIN PROGRAM ROM
A5 Z80CPU
RESET
3.07MHz
CPU_CLK
NMI
INT
M1
RFSH
WAIT
HALT
RD
WR
MREQ
IORQ
BUSRQ
BUSACK
VCC
VSS
4.7k R35
4.7k R34
MAINA[0..13]
A6 27128
A7 27128
ROM1_CS
ROM0_CS
D[D0..7]
DB[0..7]
D5 KONAMI_UK
CPUSEL 1.53MHz
6.14MHz
CLK6M
74LS107
B3B
B3A
BASE_CLK 18.43MHz
RAW_CLK 6.14MHz
18432.00 KHz
XTAL
A3
3.07MHz
A_2 A2
dual line inv
74LS368
74xx04
from counters
PEH
H4
CPUSEL
PXL_CLK
PXL_CLK'
PXL_CLK''
74LS74 A4A
3.06MHz
C3
address decoder
74LS138
IO_WR
SND_LATCH
SND_CMD
IO_EN
D8A 74LS32
VRAM_WE
EXT
74LS139
D7B decoder
D7A decoder
MAIN_DCDR
VRAM_CE
ORAM_CS
C4 74LS174
hex flip flop
CN2_5
CN1_4
IRQCLR
NMICLR
B4 74xx74
4.7K R30
INT Triggers at V=224
16V
74LS32 D8D
OBJ_WE
D8B 74LS32
ROM0_CS 0000-3FFF
D9A 74LS00
ROM1_CS 4000-7FFF
74LS08 H8C
VRAM_CS
CA2 47uF
R10 1.2K
CC1 475T
R9 47K
R7 10K
R12 120
TR2 2SD400
TR1 2SC2320
R4 6.8K
R2 150
DD2 10DI
DD1 10DI
CN_CNT2
CN_CNT1
TR4 2SC2320
TR3 2SD400
74LS07 B2C
74LS07 B2B
R16 120
JP1 Jumper
F10B 74LS14
B2F 74LS07
C54 102C
R25 51K
R17 100K
CC3 106E_16V
R3 4.7K
R6 30K
R1 100K
A1 TA7900S
BIAS
OUT
COMP
INPUT
VSS
ADJ
RESET
TC
CK
Esperanza D. Triana
Ping Pong
JOTEGO
Sheet: /main/
File: main.sch
Title: CPU & address decoders
Size: A3
Date: 2022-03-28
Rev: J. Tejada
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1
Id: 7/11

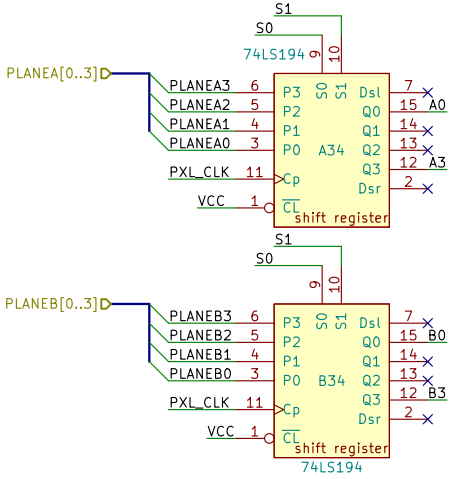
OBJRAM

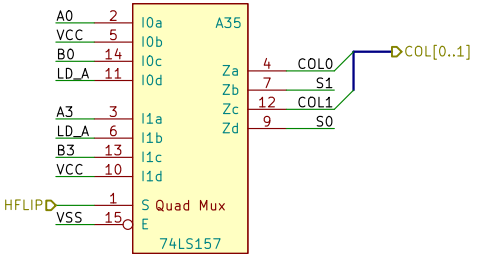


Esperanza D. Triana Ping Pong **JOTEGO**		
Sheet: /object/ File: object.sch		
Title: Object generator		
Size: A3	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 8/11









This is a small board soldered to a DIP-28 footprint. It appears twice in the design

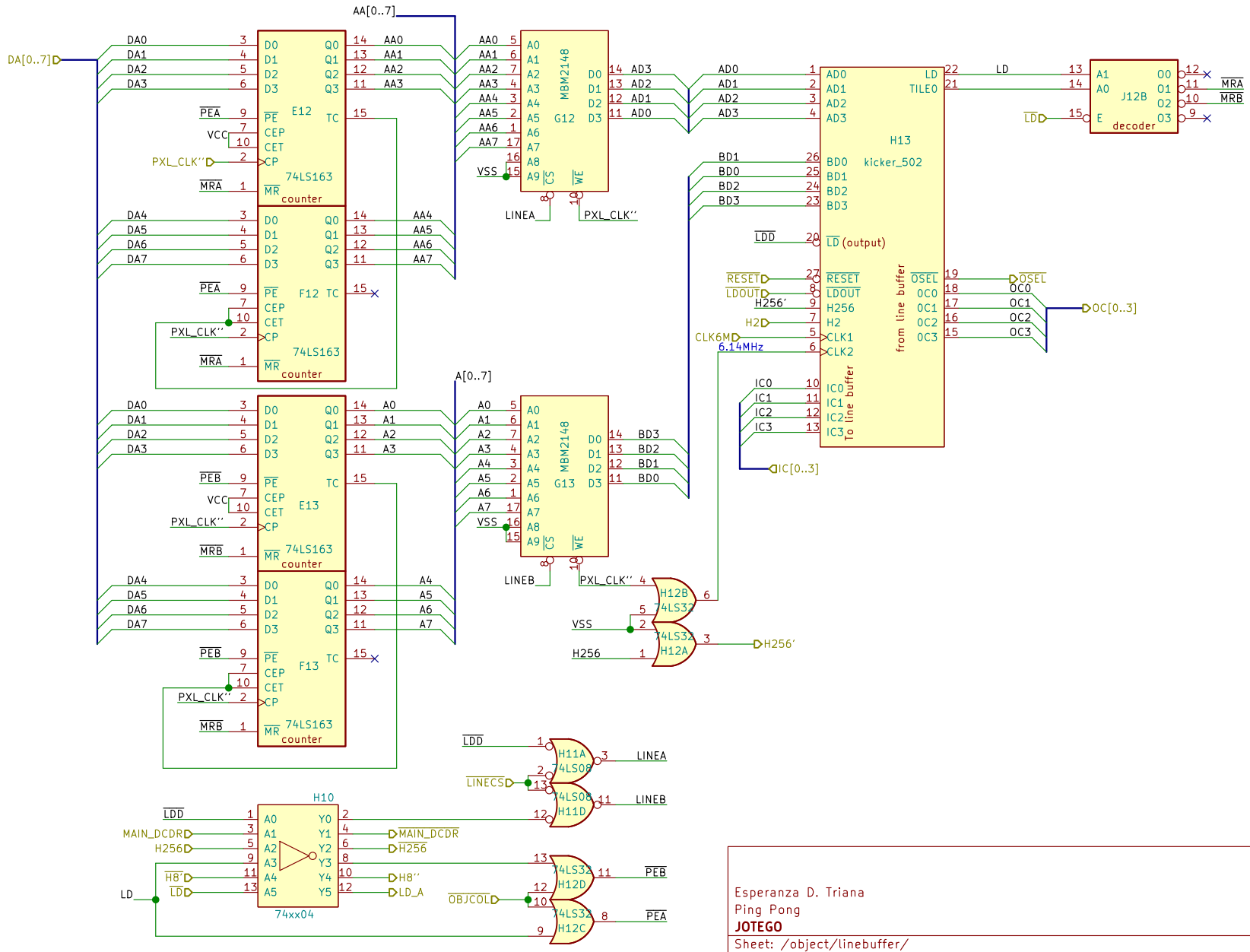
PWB-400322

Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /object/pwb400322/
File: pwb400322.sch

Title: Pixel shift register

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 9/11

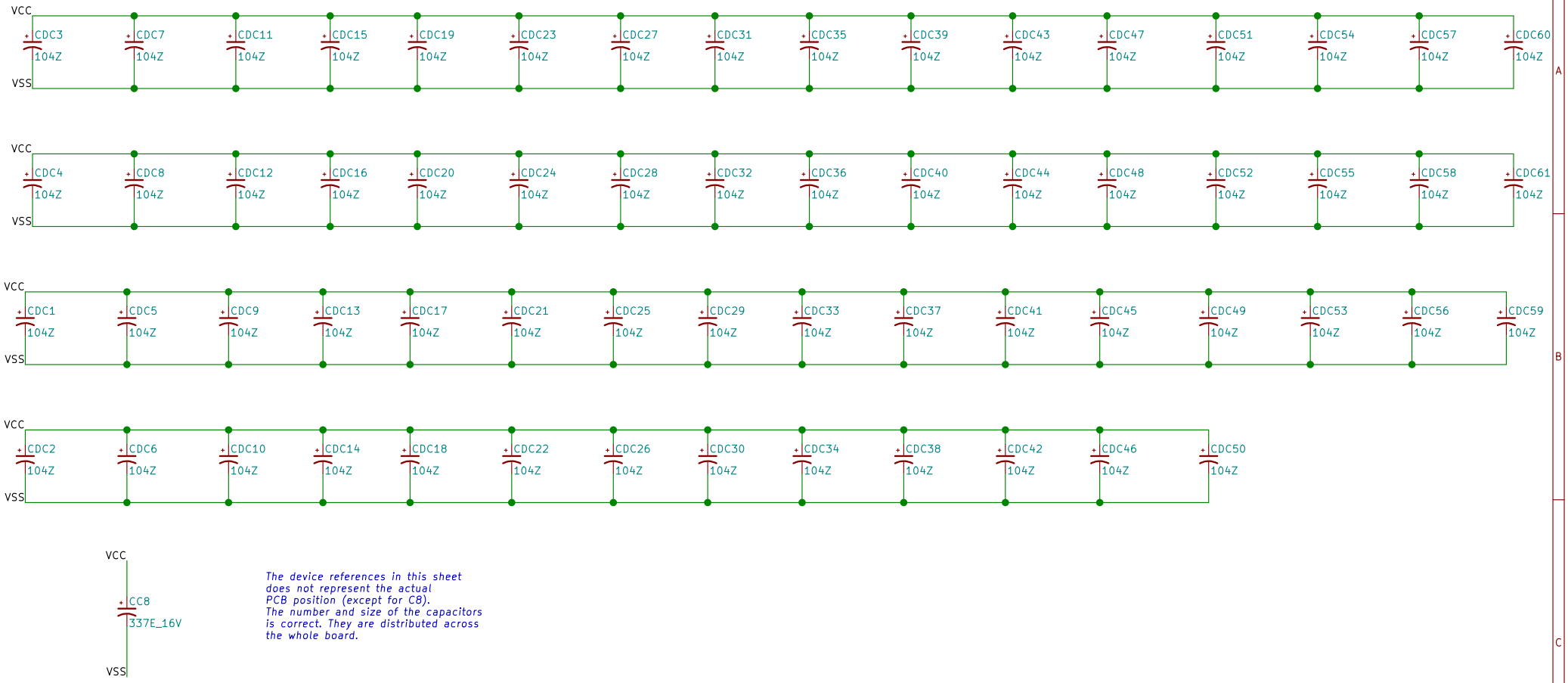


Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /object/linebuffer/
File: linebuffer.sch

Title: Doube line buffer

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A.	kicad 5.1.12-84ad8e8a8692ubuntu20.04.1	Id: 10/11



The device references in this sheet does not represent the actual PCB position (except for C8). The number and size of the capacitors is correct. They are distributed across the whole board.

Esperanza D. Triana
Ping Pong
JOTEGO

Sheet: /capacitors/
File: capacitors.sch

Title: Decoupling capacitors

Size: A4	Date: 2022-03-28	**Rev: J. Tejada**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1		Id: 11/11