

github.com/jfleitz/gp-mpu

ePinball

Sheet: /

File: gp-mpu.kicad_sch

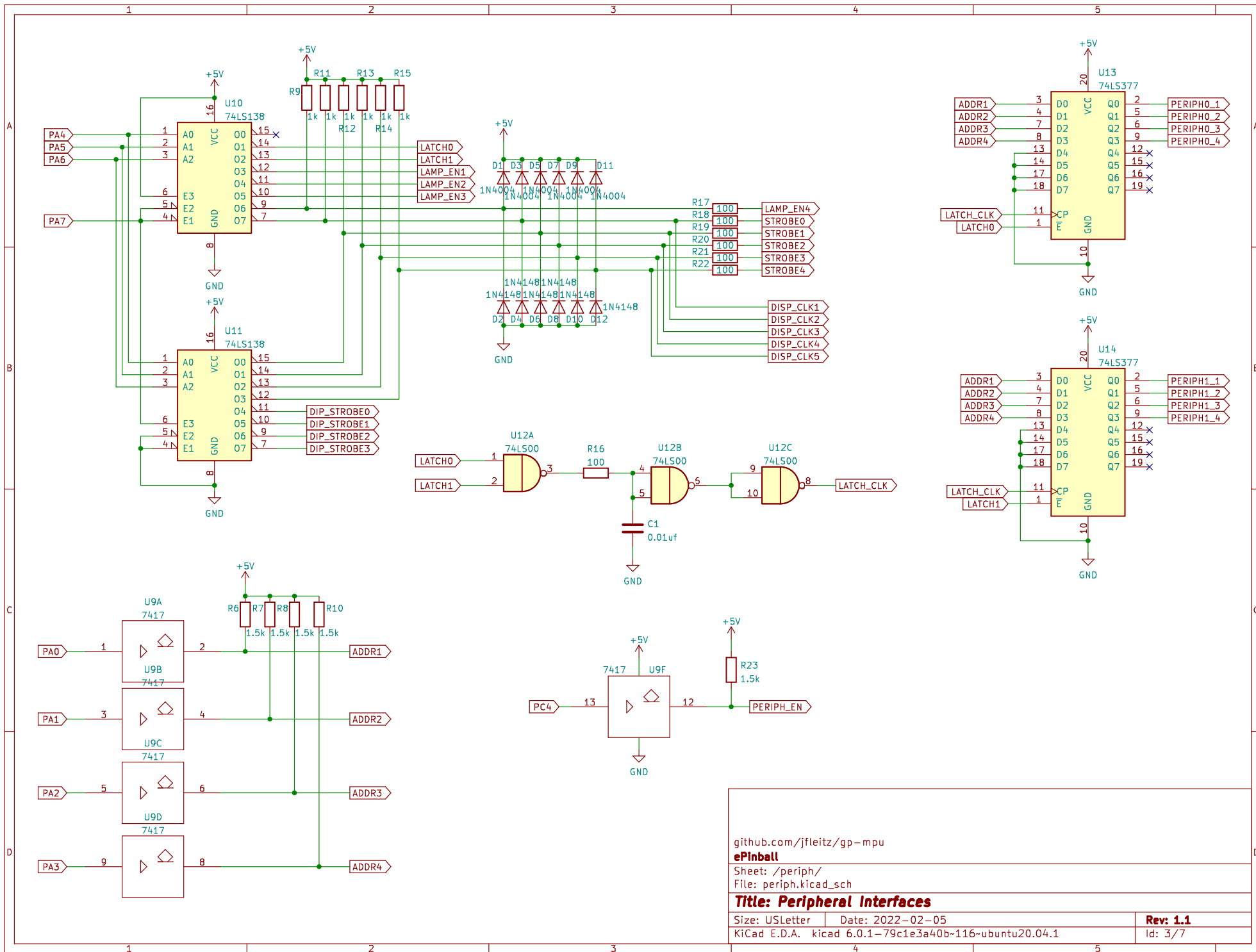
Title: CPU and Memory

Size: USLetter Date: 2022-02-05

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Rev: 1.1

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Sheet: /periph/

File: periph.kicad_sch

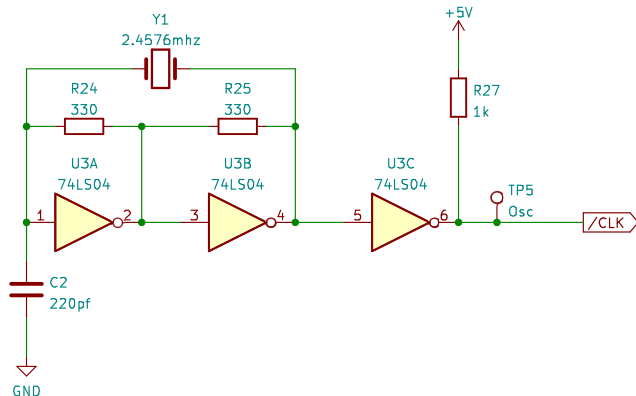
Title: Peripheral Interfaces

Size: USLetter Date: 2022-02-05

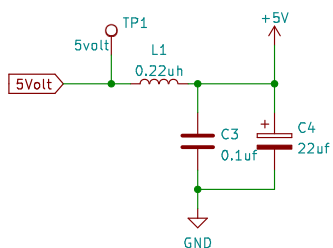
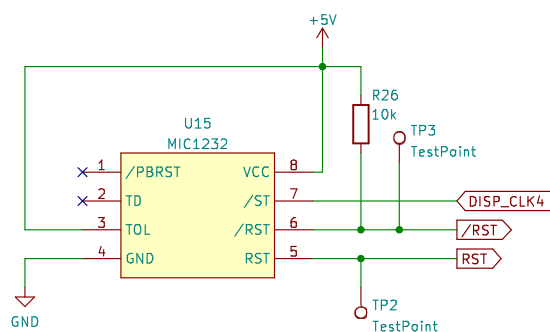
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Rev: 1.1

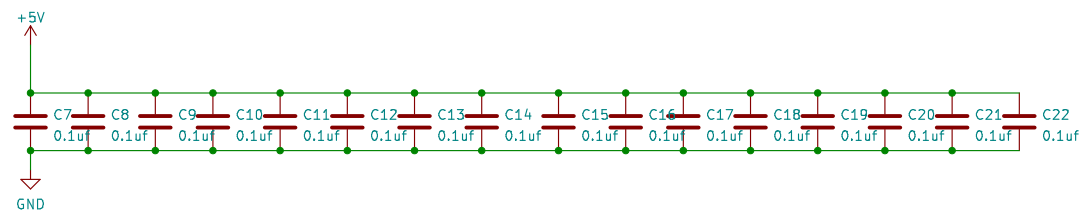
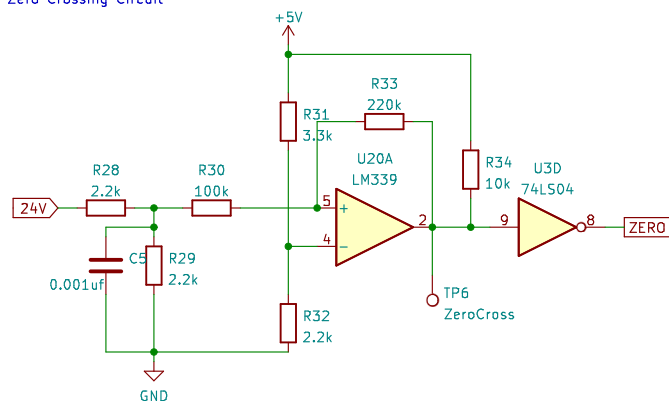
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Watchdog



Zero Crossing Circuit



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Sheet: /osc watchdog/

File: osc watchdog.kicad_sch

Title: Oscillator, Watchdog, Zero Cross

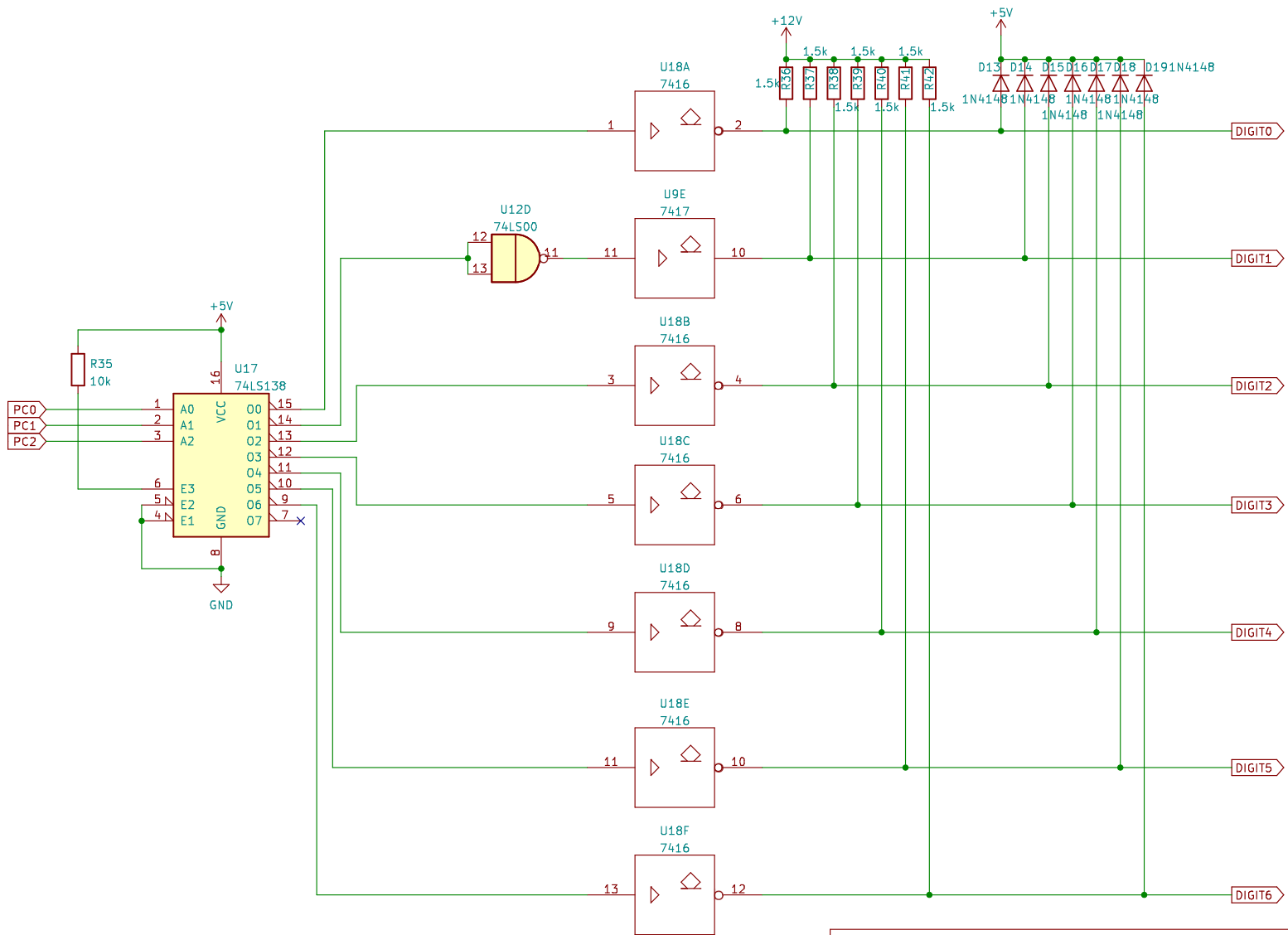
Size: USLetter

Date: 2022-02-05

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Sheet: /Displays/

File: display.kicad_sch

Title: Display Digit Drivers

Size: USLetter

Date: 2022-02-05

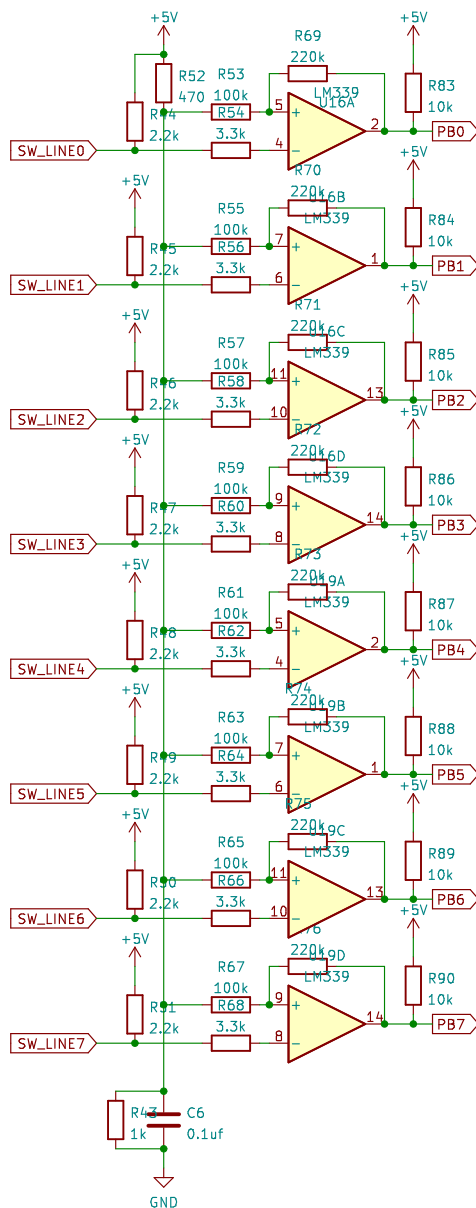
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Rev: 1.1

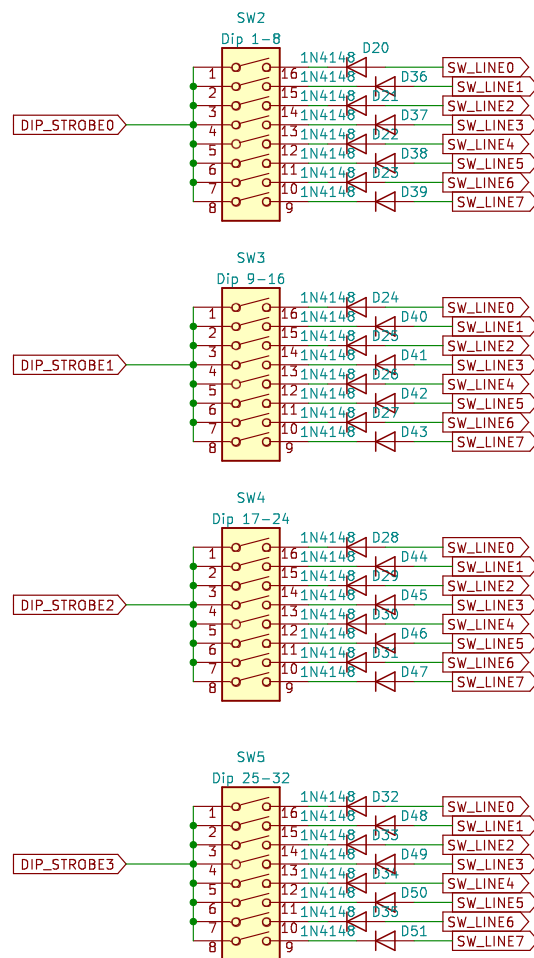
Id: 4/7

Switch Matrix Input

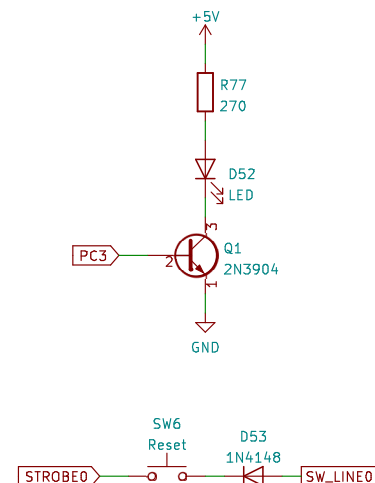
Need 10k pullup on each LM339 output
Check 6.8k pullup for proper value on Cyclones MPU
Check 10k pulldown (looks like 1k pulldown??) on Cyclones MPU



Dip Switch Settings



Diagnostic LED and Reset Switch



1.1: Update R52 = 470, R43 = 1k; Add R83-R90
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Sheet: /switches/

File: switches.kicad_sch

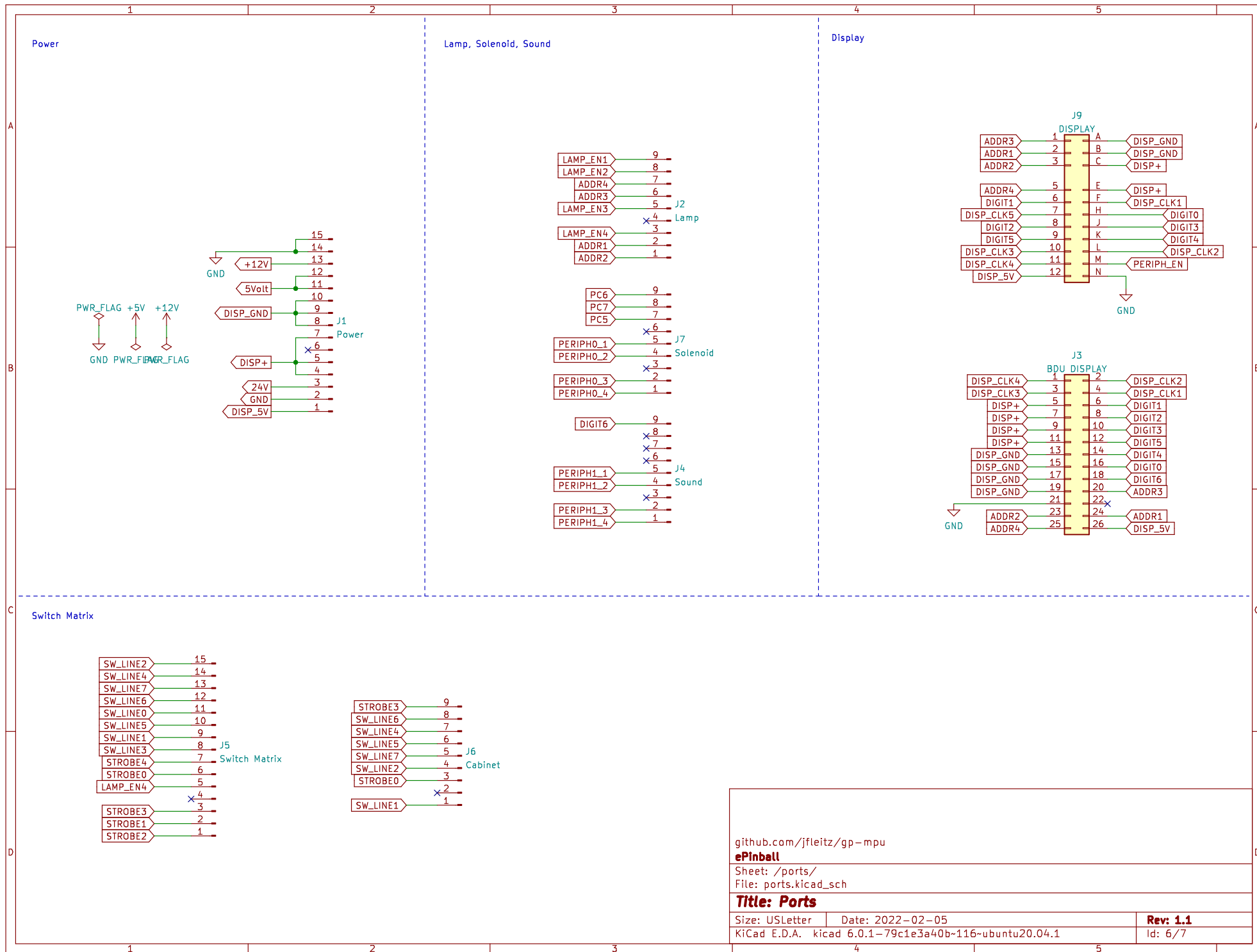
Title: Switch Matrix, Dip Switches and Diag/Reset Sw

Size: USLetter Date: 2022-02-05

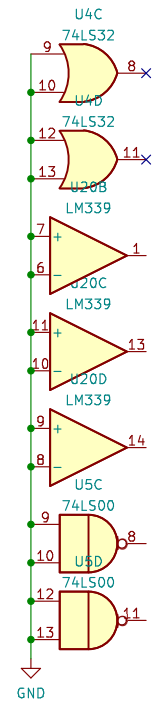
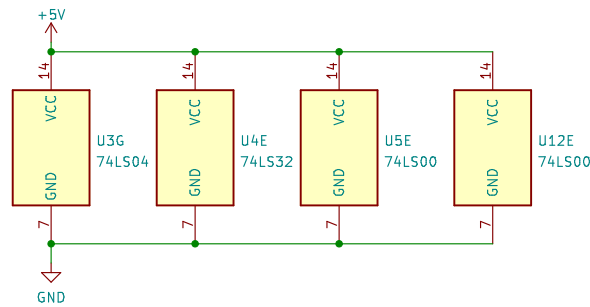
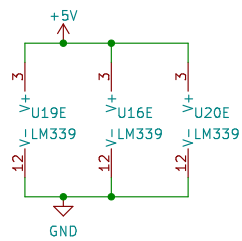
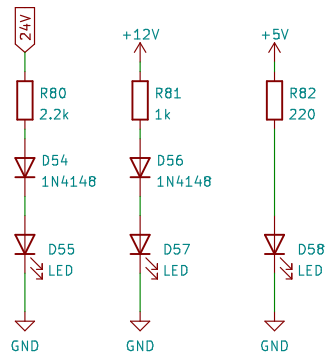
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Power Pins and NC pins



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Sheet: /PowerPins/

File: powerpins.kicad_sch

Title: Power and Non-Connected pins

Size: USLetter Date: 2022-02-05

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