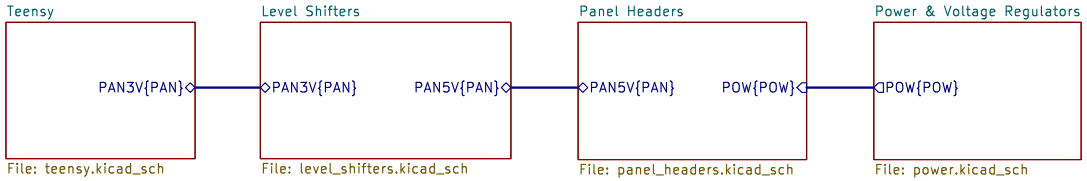
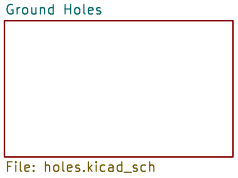
12-12 Teensy Arena





IORodeo for Reiserlab @ Janelia

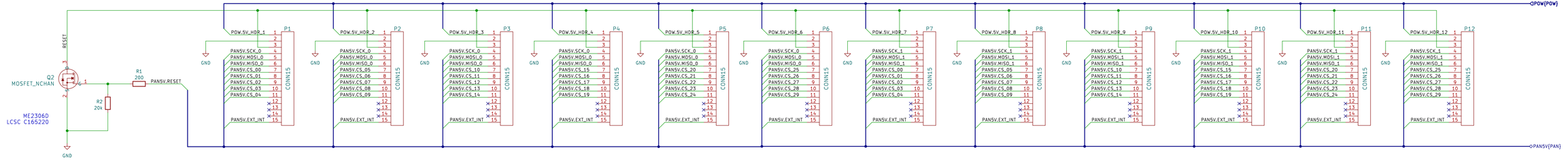
Sheet: /

File: teensy_arena_12-12.kicad_sch

Title: 12-12 Teensy G4.1 Arena Modular LED Display

Size: USLetter	Date: 2024-10-08	**Rev: v0.2**
KiCad E.D.A. 8.0.5		Id: 1/6

Panel Headers



10Rodeo for Reiserlab ● Janelia	
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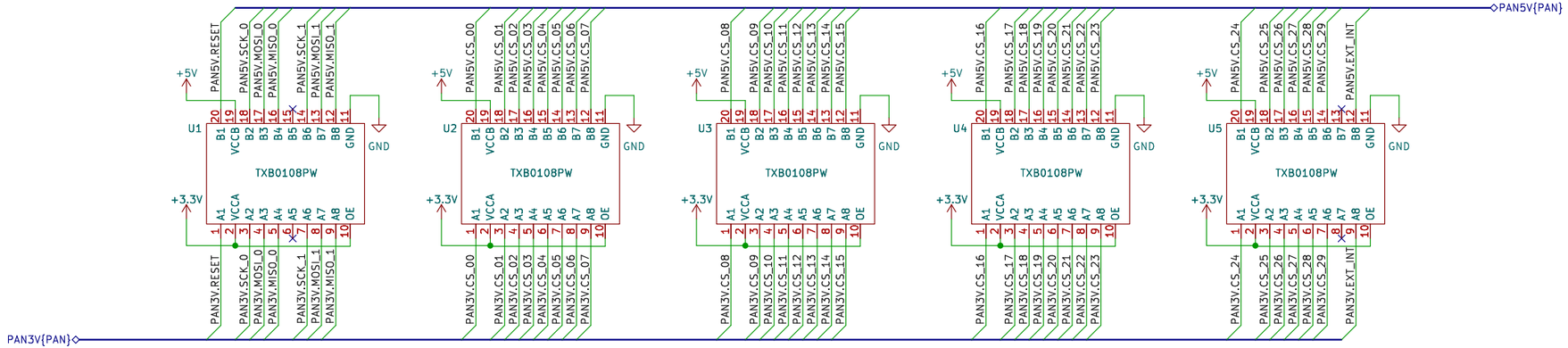
Title: 12-12 Teensy G4.1 Arena Modular LED Display	
Size: User	Date: 2024-10-08
KiCad E.D.A. 8.0.5	Id: 2/6
	Rev: v0.2

Level Shifters



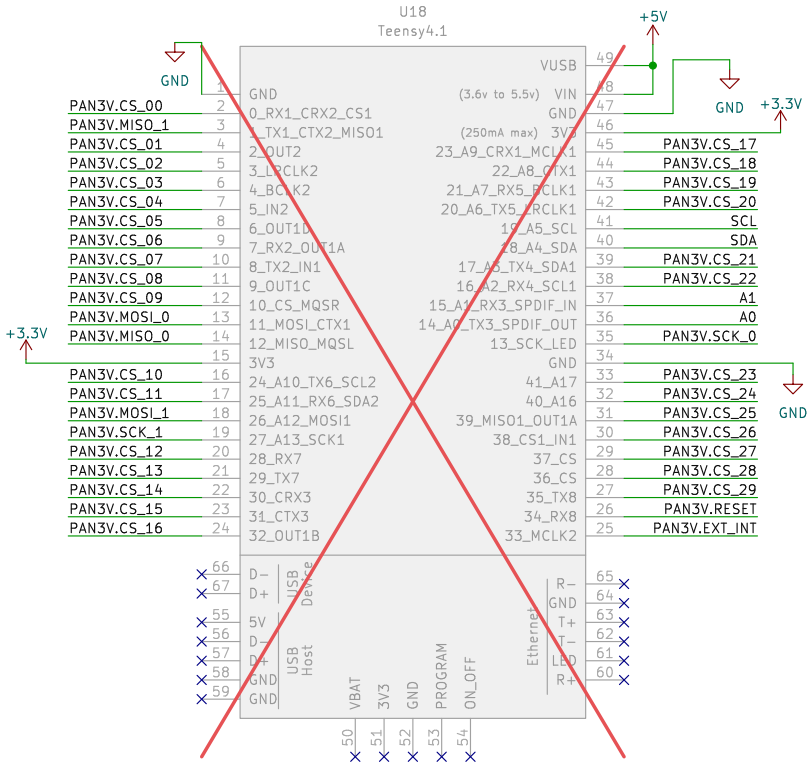
IORodeo for Reiserlab @ Janelia

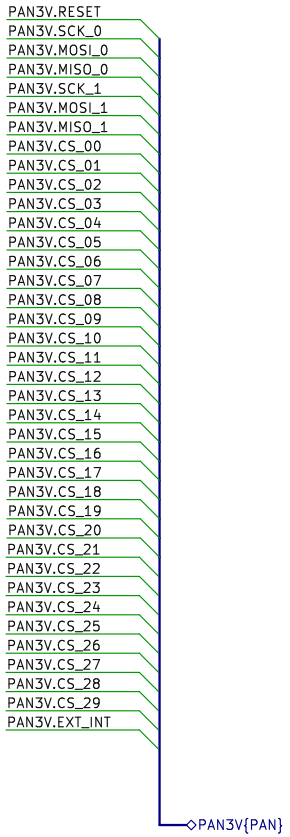
Sheet: /Level Shifters/

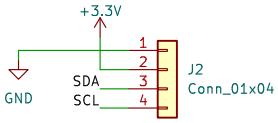
File: level_shifters.kicad_sch

Title: 12–12 Teensy G4.1 Arena Modular LED Display

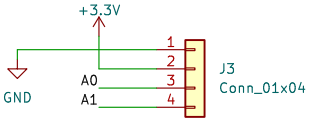
Size: User	Date: 2024-10-08	Rev: v0.2
KiCad E.D.A. 8.0.5		Id: 3/6







I2C connections for analog outputs, sensors etc.



Analog inputs

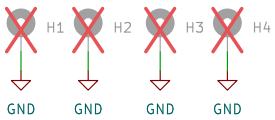
IORodeo for Reiserlab @ Janelia

Sheet: /Teensy/

File: teensy.kicad_sch

Title: 12-12 Teensy G4.1 Arena Modular LED Display

Size: USLetter	Date: 2024-10-08	**Rev: v0.2**
KiCad E.D.A. 8.0.5		Id: 5/6



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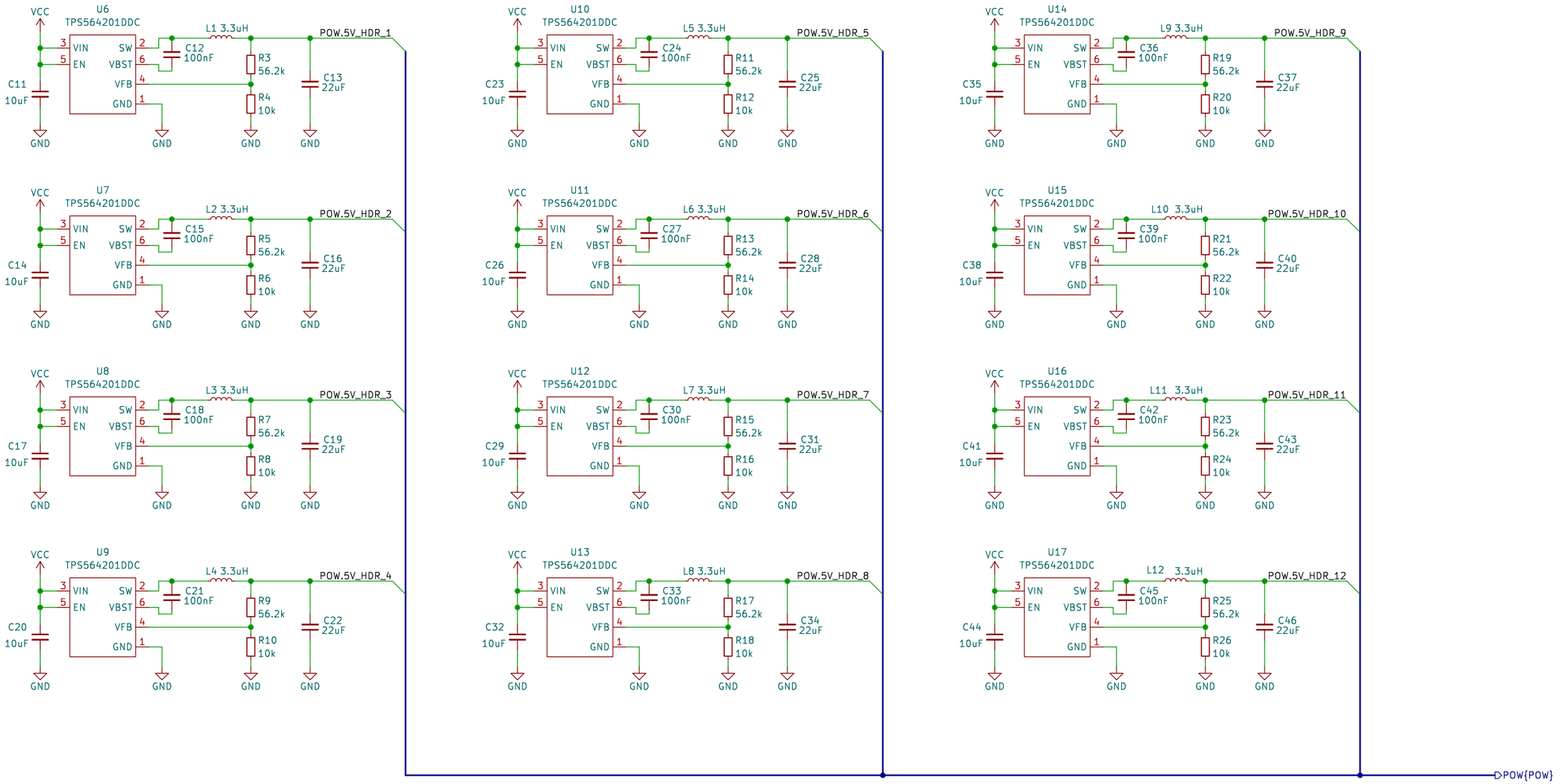
Sheet: /Ground Holes/

File: holes.kicad_sch

Title: 12-12 Teensy G4.1 Arena Modular LED Display

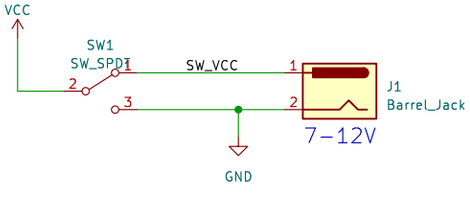
Size: USLetter	Date: 2024-10-08	**Rev: v0.2**
KiCad E.D.A. 8.0.5		Id: 6/6

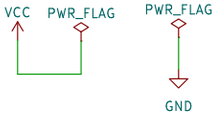
Power & Voltage Regulation



8.5A 3.3uH ±20% 19.9mΩ SMD,7.2x6.6mm Inductors, LCSC PN C5189753

Step-Down Voltage Regulator,
6.5A LCSC PN C5189747
8.0A LCSC PN C464812





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Sheet: /Power & Voltage Regulators/
File: power.kicad_sch

Title: 12-12 Teensy G4.1 Arena Modular LED Display

Size: User	Date: 2024-10-08	**Rev: v0.2**
KiCad E.D.A. 8.0.5		Id: 6/6