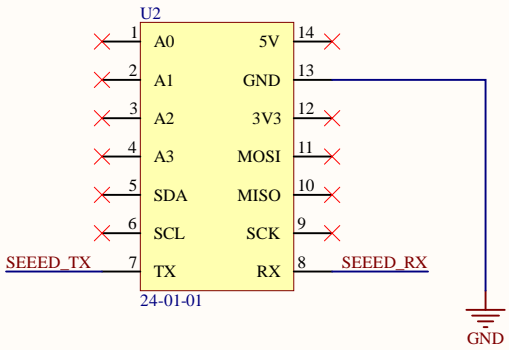
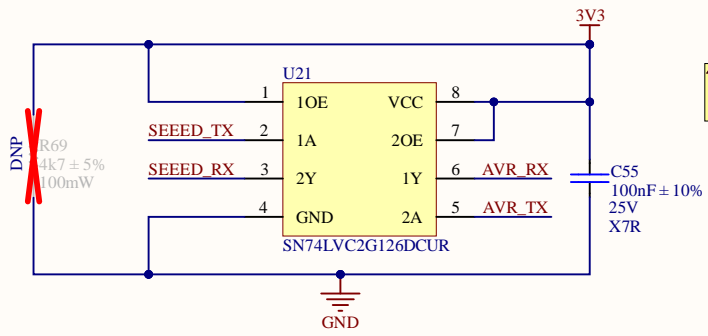


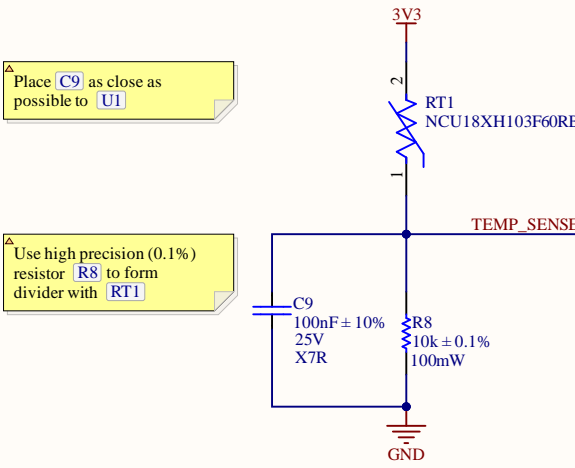
SEEDUINO



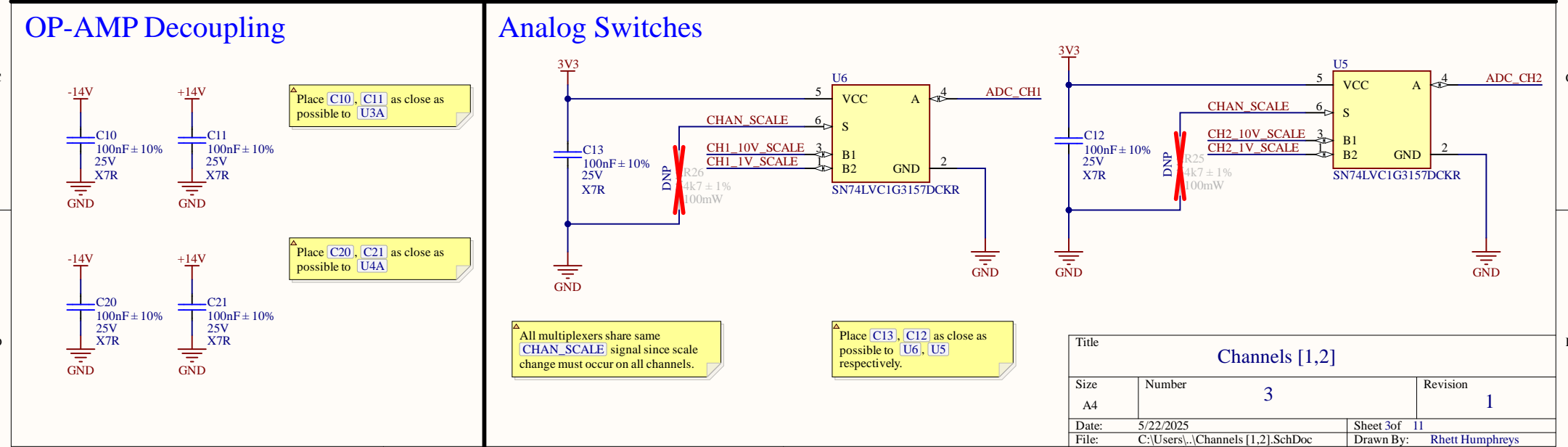
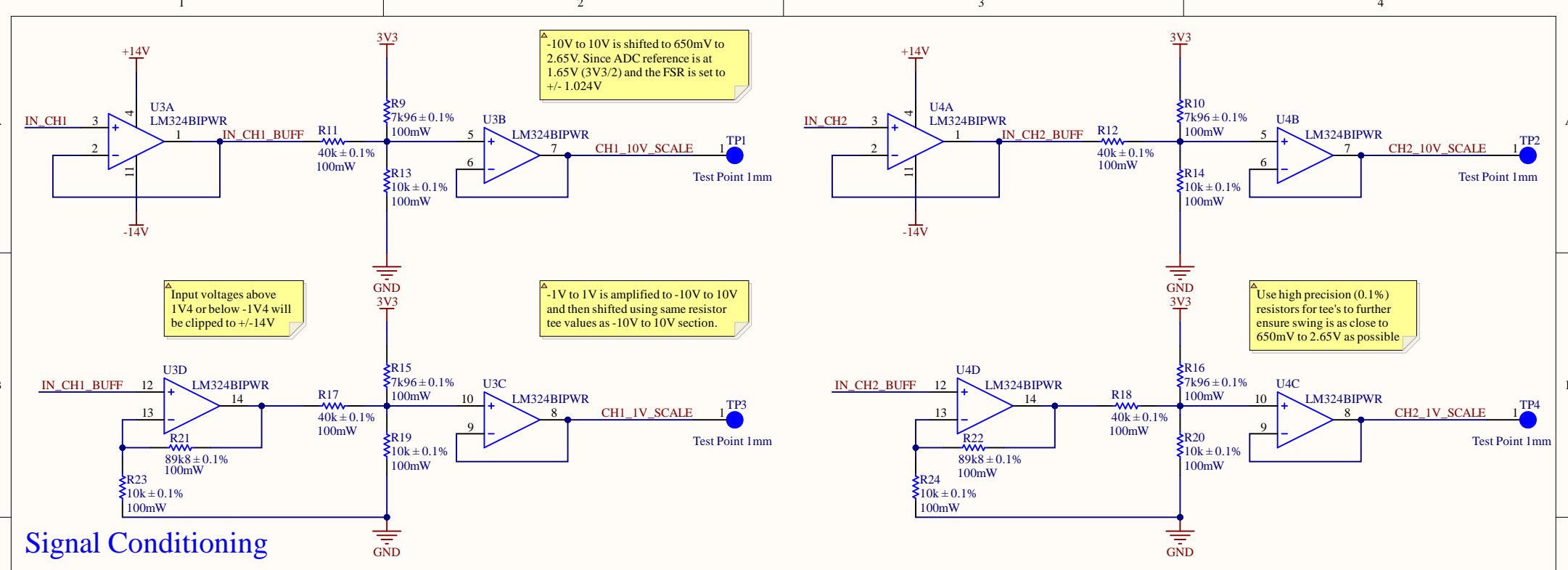
BUFFER

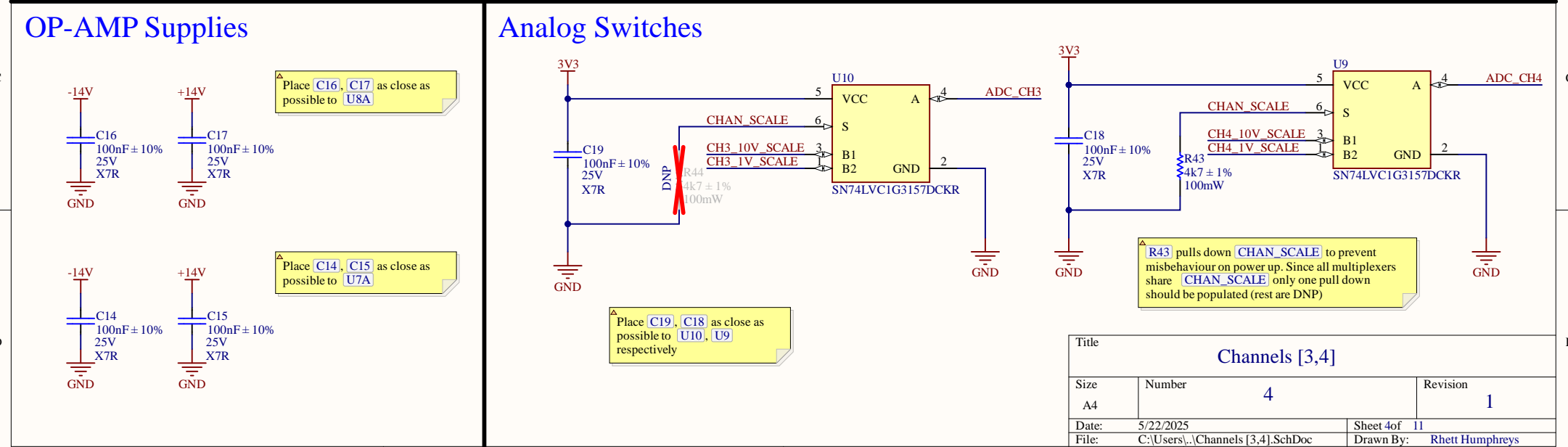
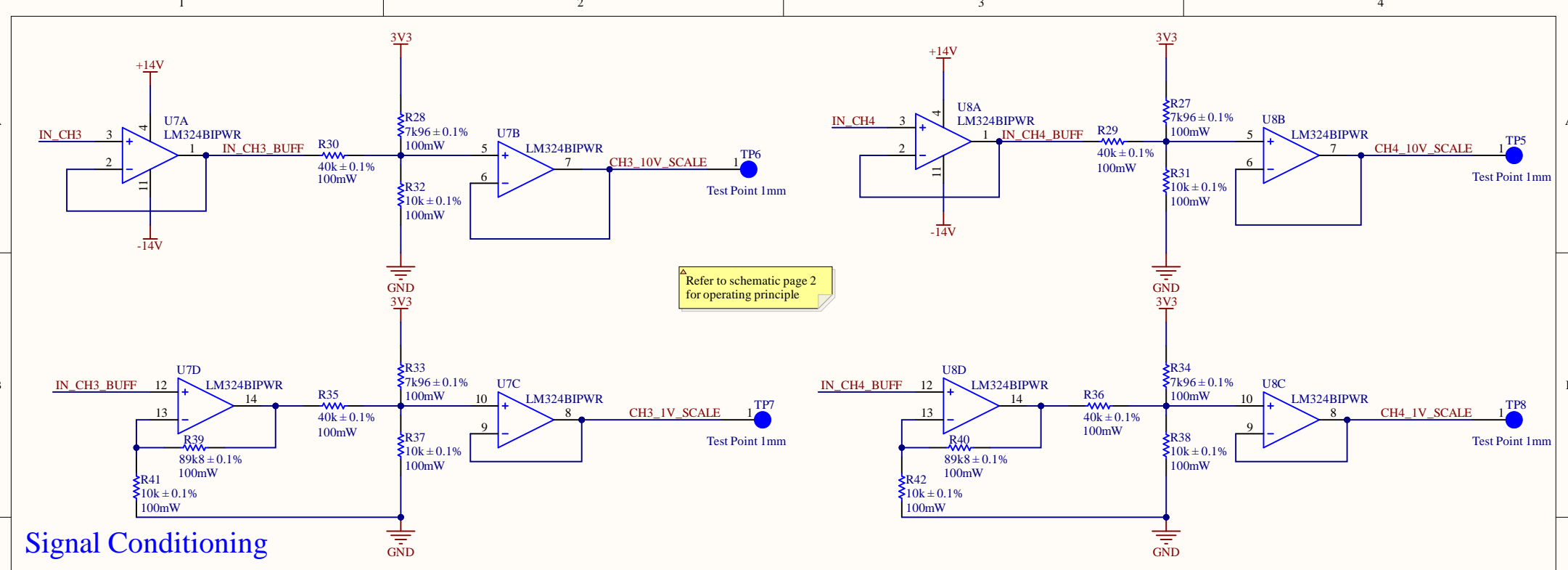


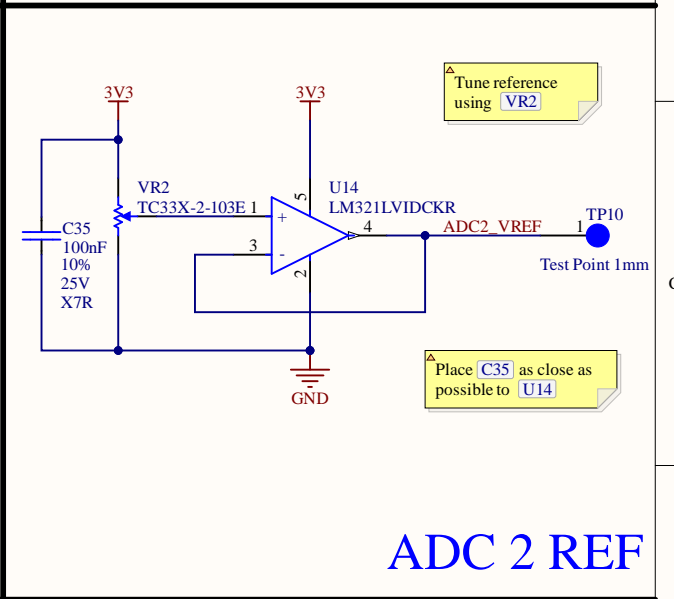
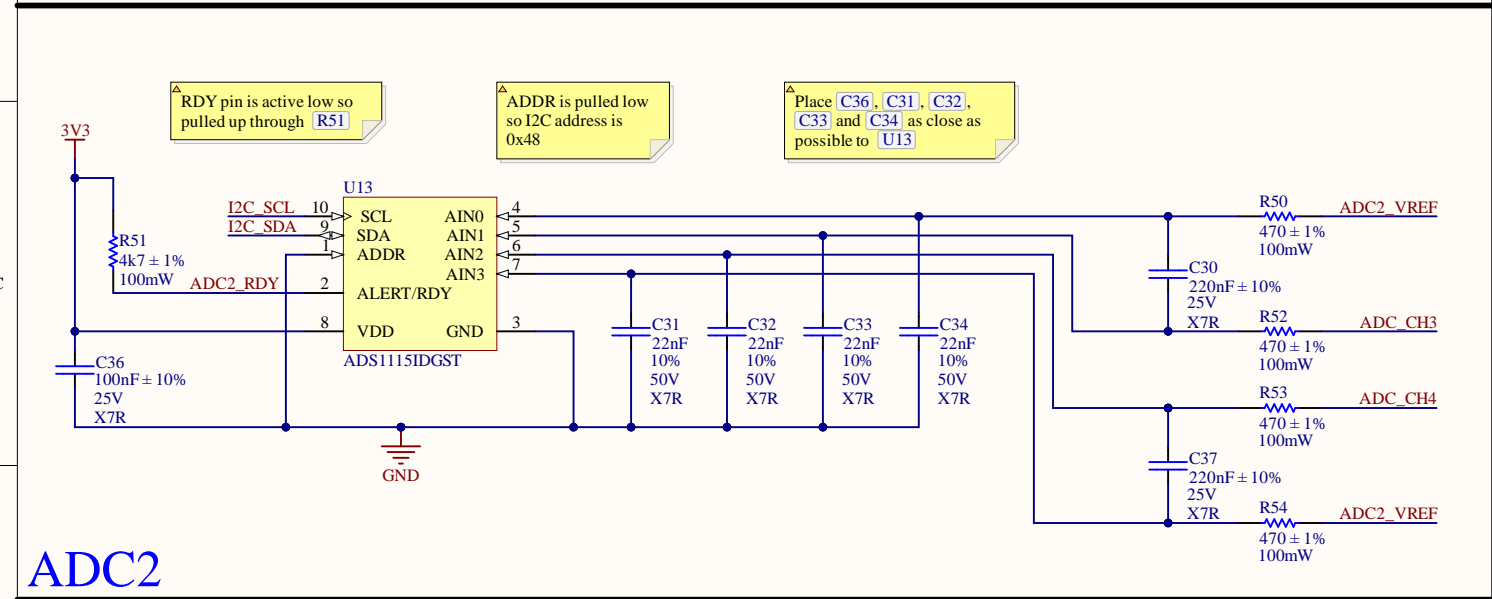
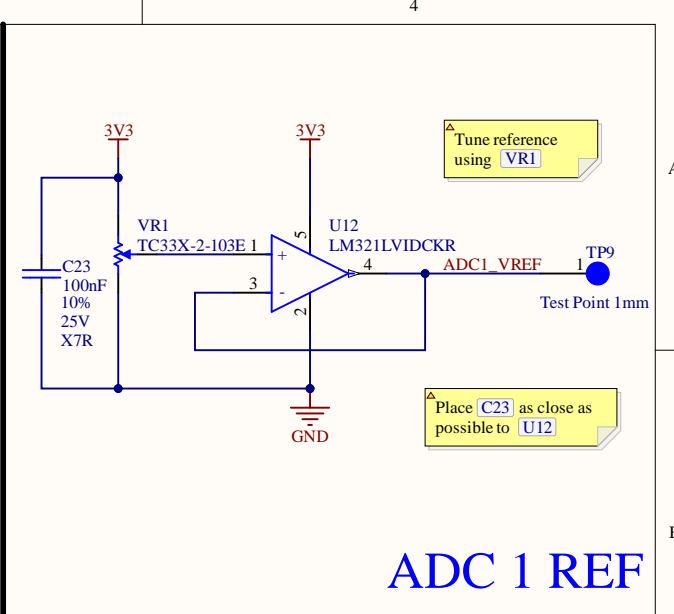
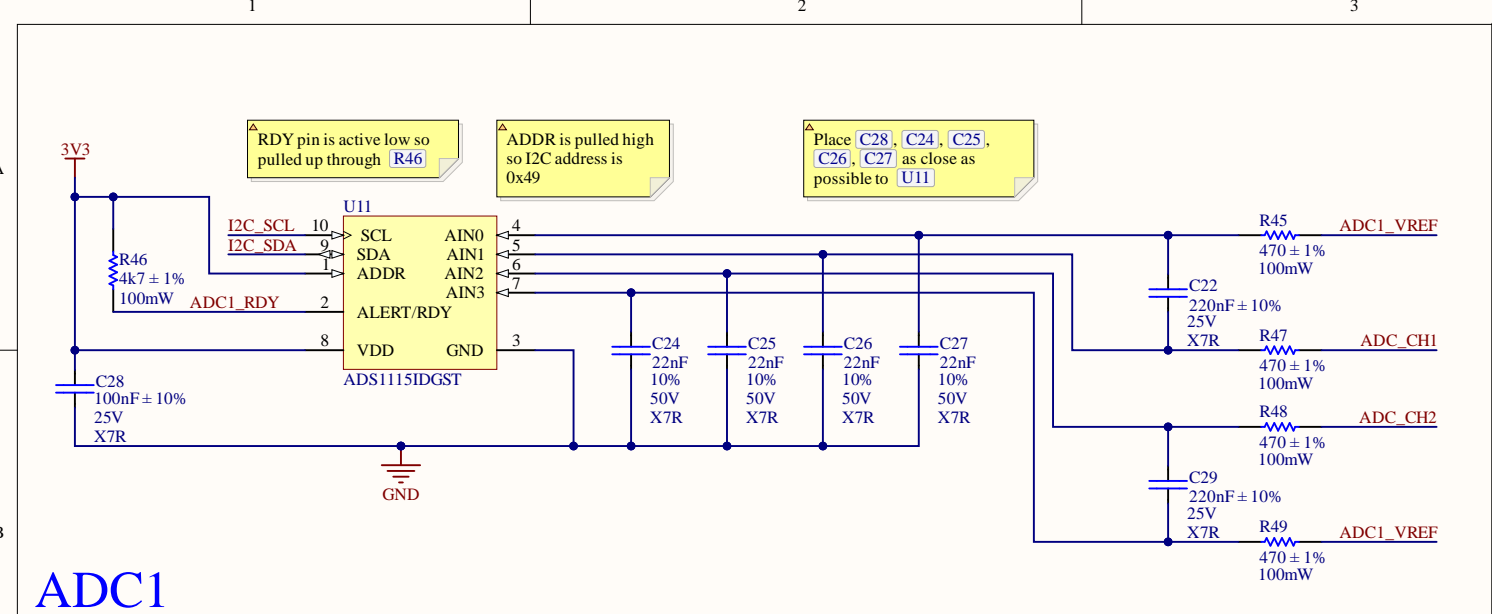
AMBIENT TEMP

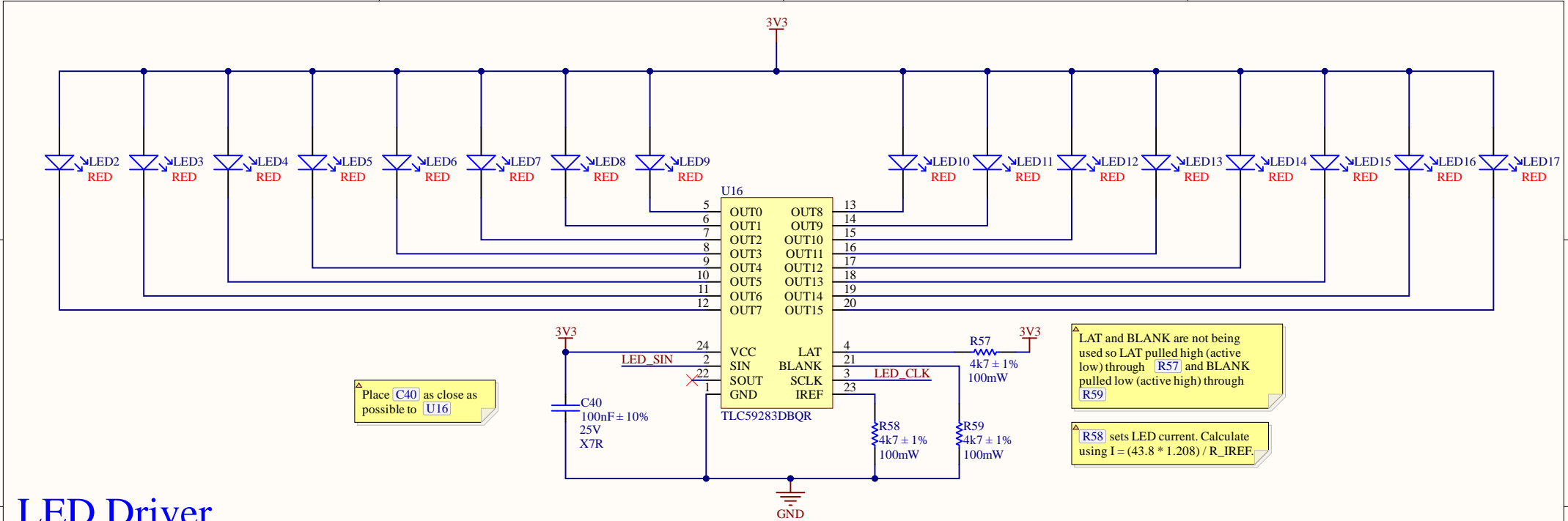


Title			Seeeduino and Temp	
Size	Number		Revision	
A4	2		1	
Date:	5/22/2025		Sheet 2 of	11
File:	C:\Users\...\Seeeduino and Temp.SchDoc		Drawn By:	Rhett Humphreys



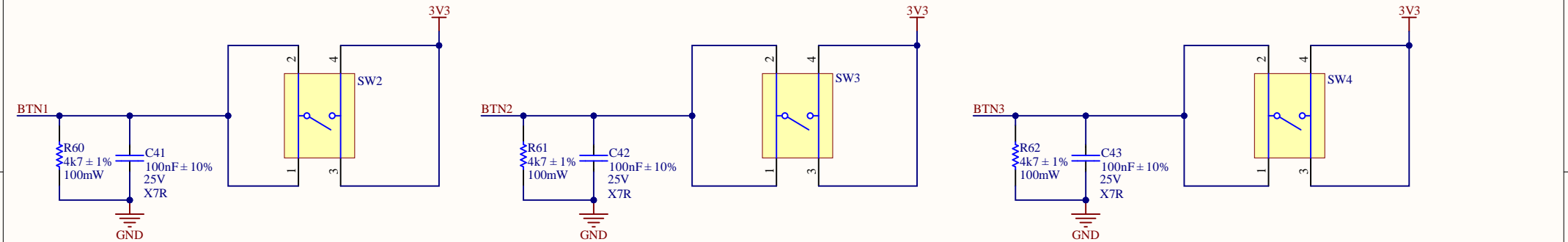






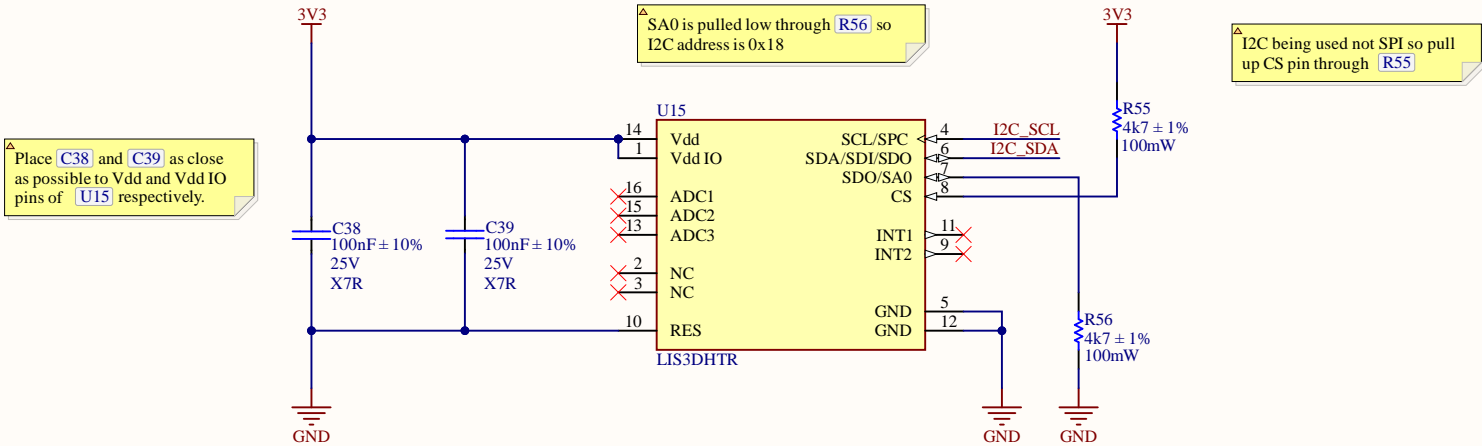
LED Driver

Buttons



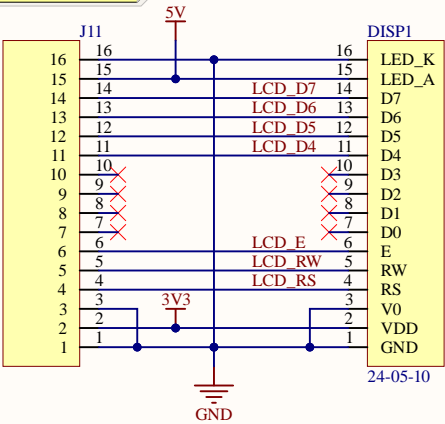
Place C41, C42 and C43 as close as possible to GPIO pins used for buttons of U1

Title		
Alarms and Buttons		
Size	Number	Revision
A4	6	1
Date:	5/22/2025	Sheet 6 of 11
File:	C:\Users\...\Alarms and Buttons.SchDoc	Drawn By: Rhett Humphreys



Title			Accelerometer	
Size	Number	Revision		
A4	7	1		
Date:	5/22/2025	Sheet 7 of	11	
File:	C:\Users\...\Accelerometer.SchDoc	Drawn By:	Rhett Humphreys	

▲ J11 is male to male header soldered to DISP1 PCB.



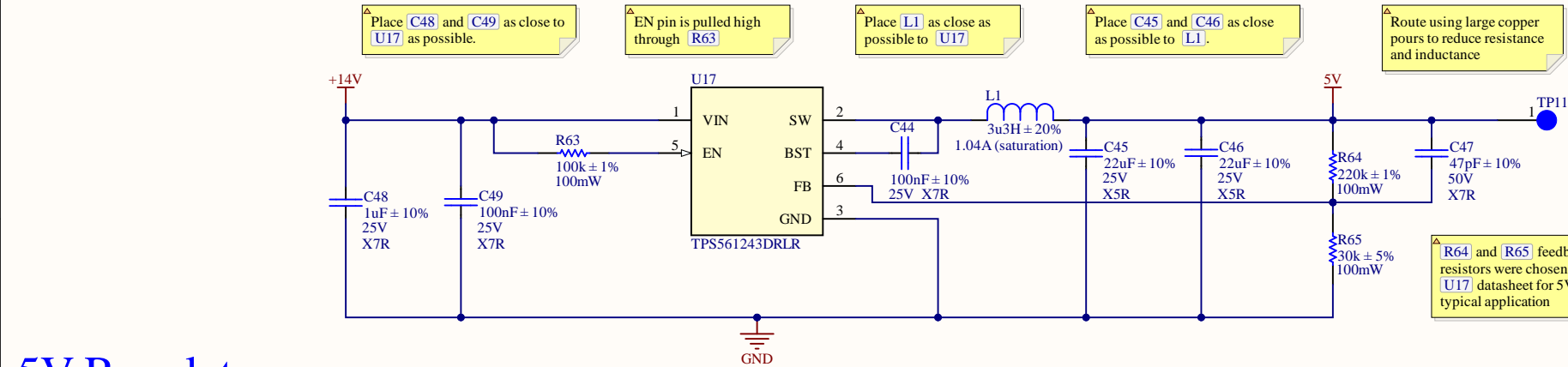
▲ LCD module has on-board decoupling so no extra capacitors needed

▲ LCD being used in 4-bit mode so D0 to D3 are NC

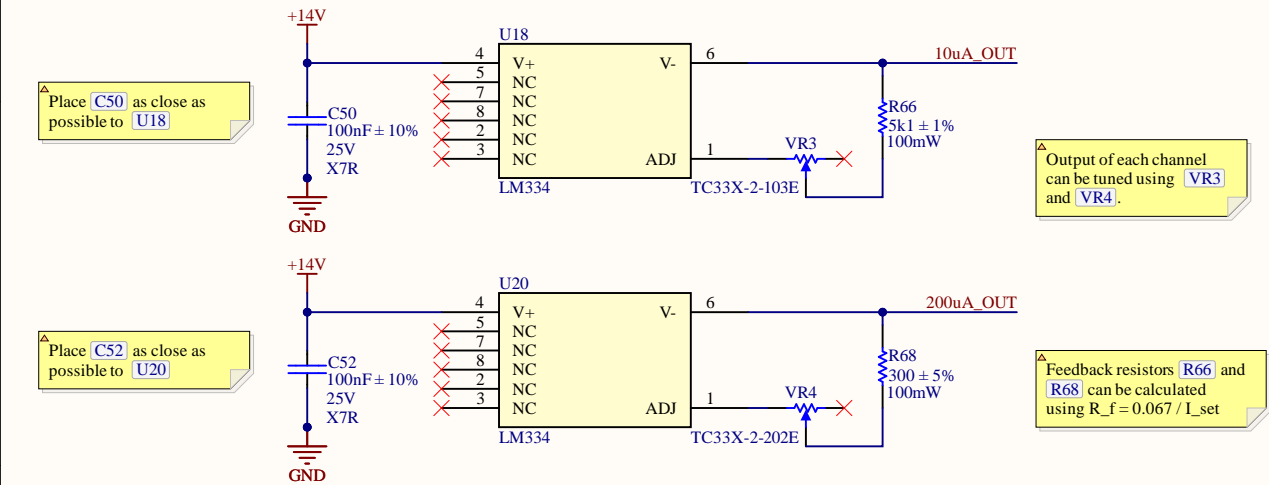
▲ LCD board has current limiting resistor for backlight

24-05-10

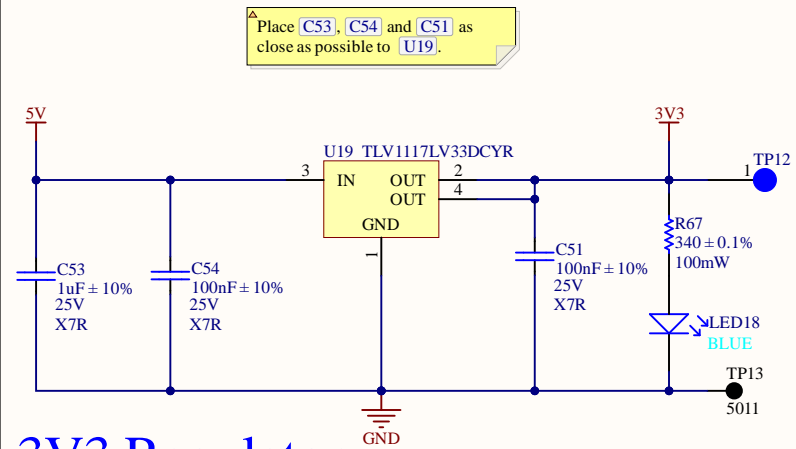
Title		
LCD		
Size	Number	Revision
A4	8	1
Date:	5/22/2025	Sheet 8 of 11
File:	C:\Users\...\LCD.SchDoc	Drawn By: Rhett Humphreys



5V Regulator



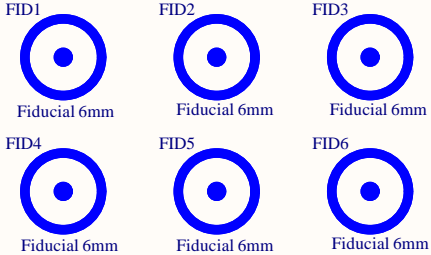
Current Sources



3V3 Regulator

Title		
Power		
Size	Number	Revision
A4	9	1
Date:	5/22/2025	Sheet 9 of 11
File:	C:\Users\...\Power.SchDoc	Drawn By: Rhett Humphreys

A

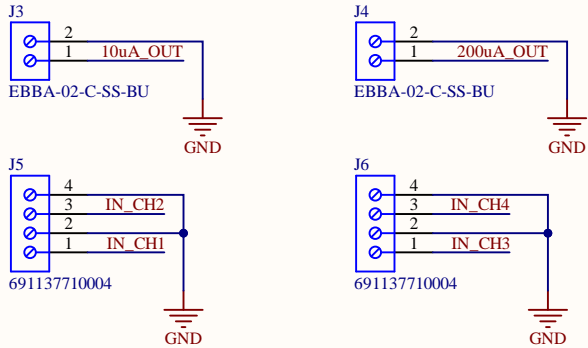


Fiducials



Mounting Holes

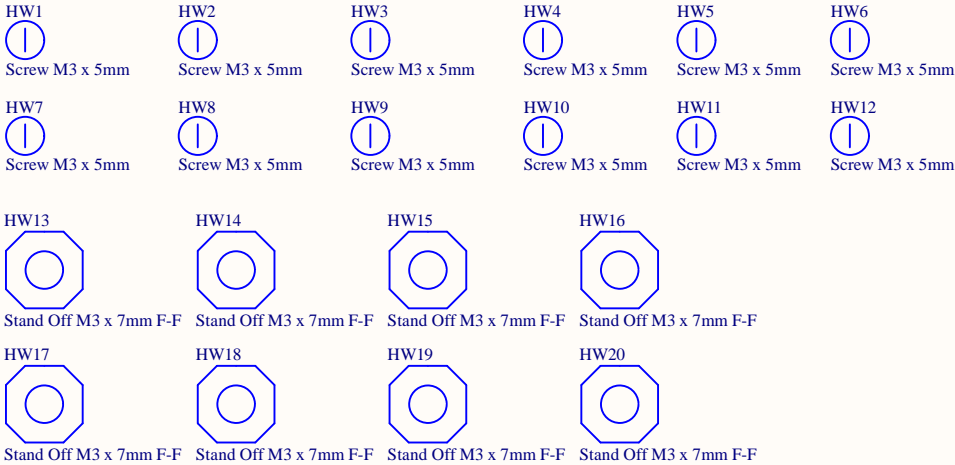
B



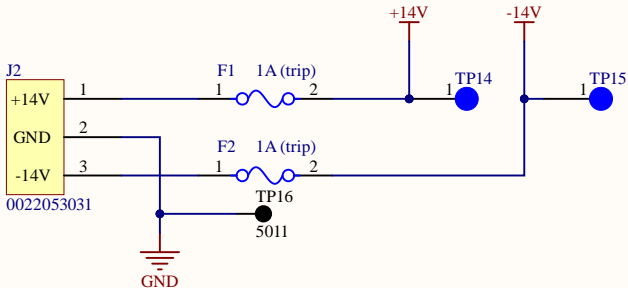
Screw Terminals

Place J3 and J4 relatively close to J5 and J6.

Mounting Hardware



D



Power Connector

Title		
Hardware		
Size A4	Number 10	Revision 1
Date:	5/22/2025	Sheet 1 of 11
File:	C:\Users\...\Hardware.SchDoc	Drawn By: Rhett Humphreys

Wires

W1 should be used for +14V connection, W2 for GND and W3 for -14V

- W1

22-03-03
24AWG, multistrand, 1000mm RED
- W2

22-03-06
24AWG, multistrand, 1000mm GREEN
- W3

22-03-01
24AWG, multistrand, 1000mm BLACK

Connector Housing

J8

0022013037
Molex female housing 2.54mm 3 pos

Crimps

- J7

0008550102
Molex crimp gold 22-30 AWG
- J9

0008550102
Molex crimp gold 22-30 AWG
- J10

0008550102
Molex crimp gold 22-30 AWG

Title			Cables	
Size	Number		Revision	
A4	11		1	
Date:	5/22/2025		Sheet11 of 11	
File:	C:\Users\...\Cables.SchDoc		Drawn By: Rhett Humphreys	