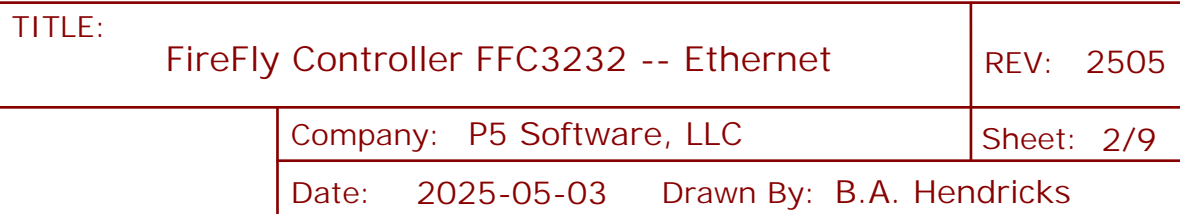
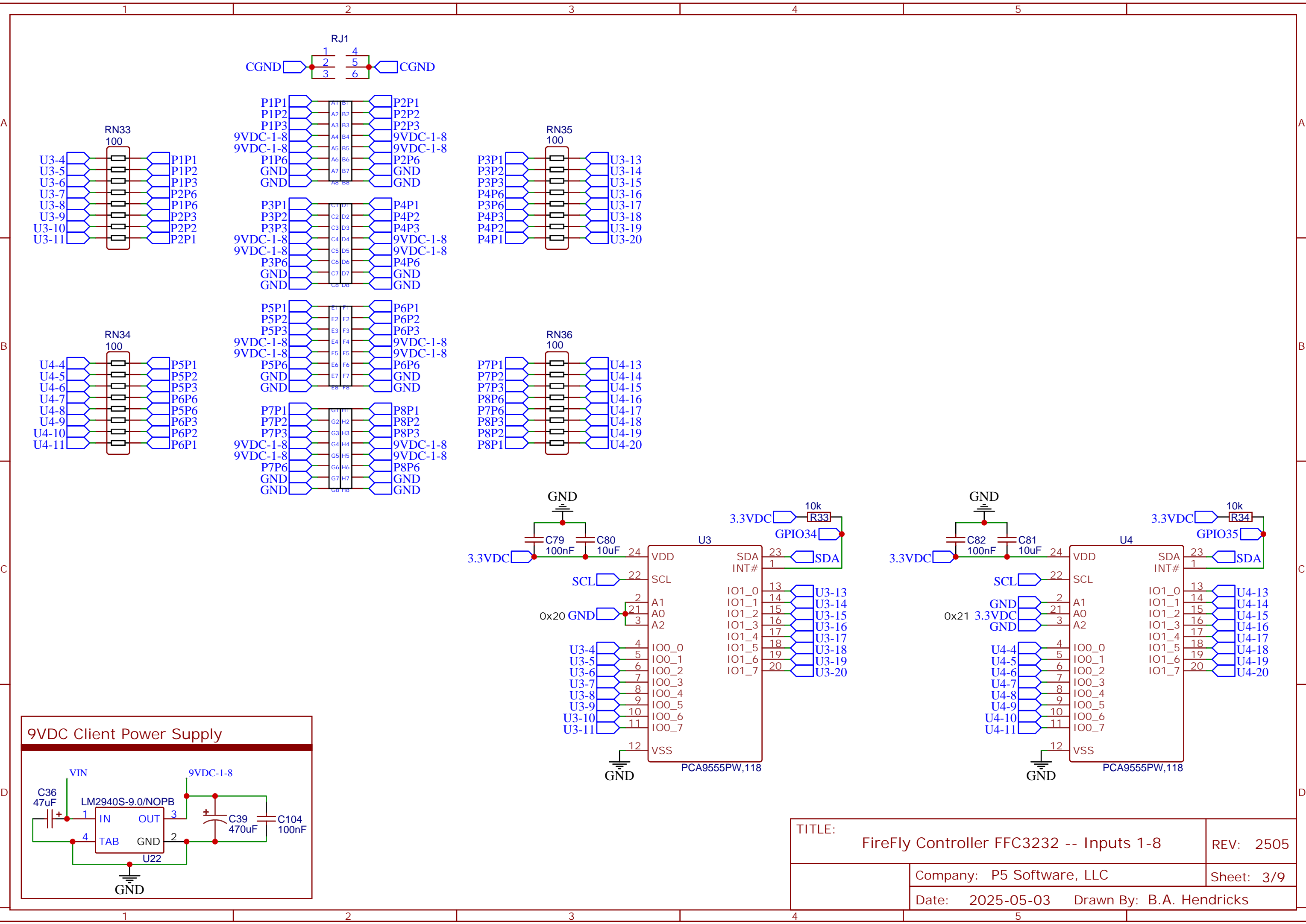
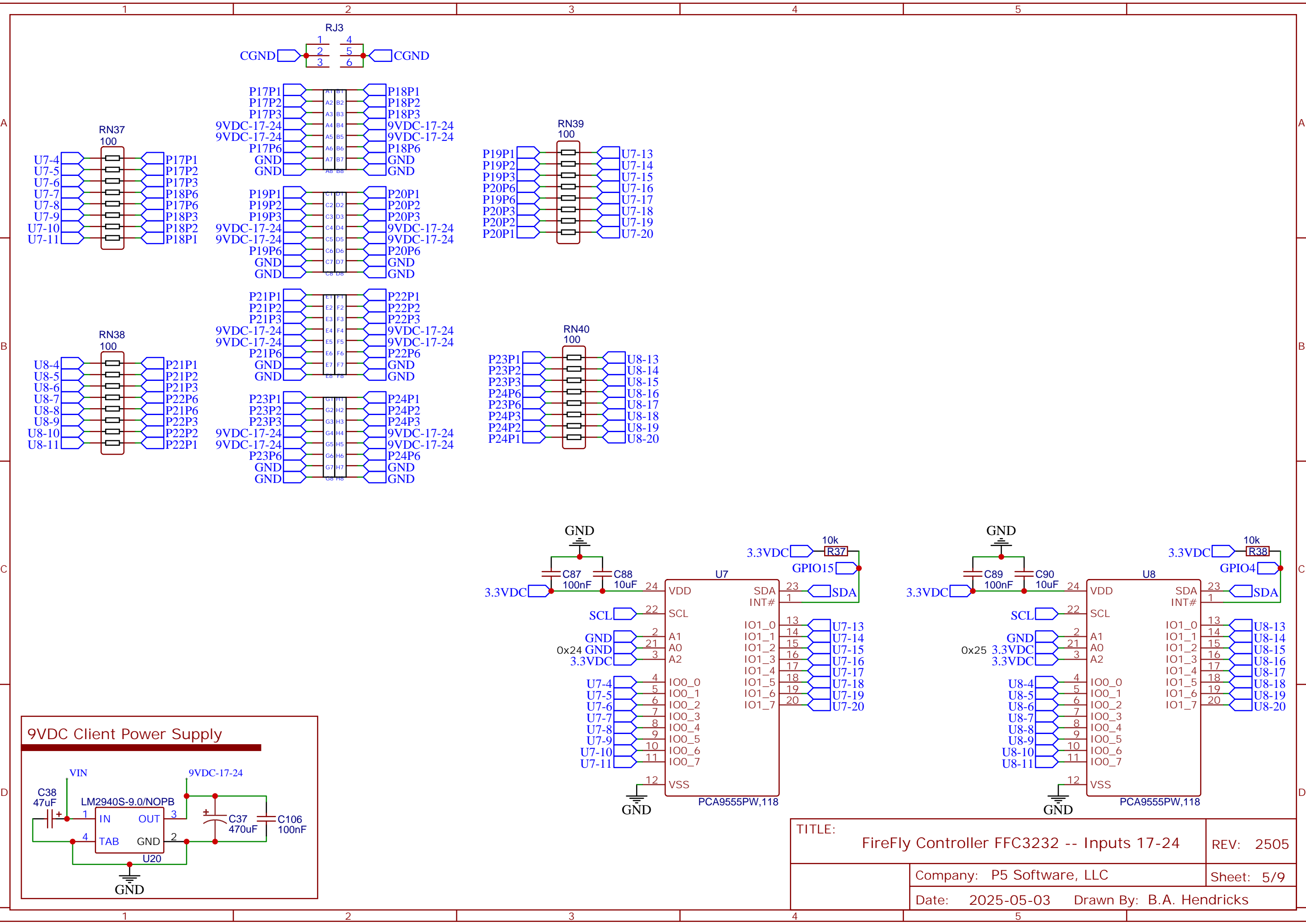


TITLE: FireFly Controller FFC3232 -- MCU		REV: 2505
	Company: P5 Software, LLC	Sheet: 1/9
	Date: 2025-05-03	Drawn By: B.A. Hendricks

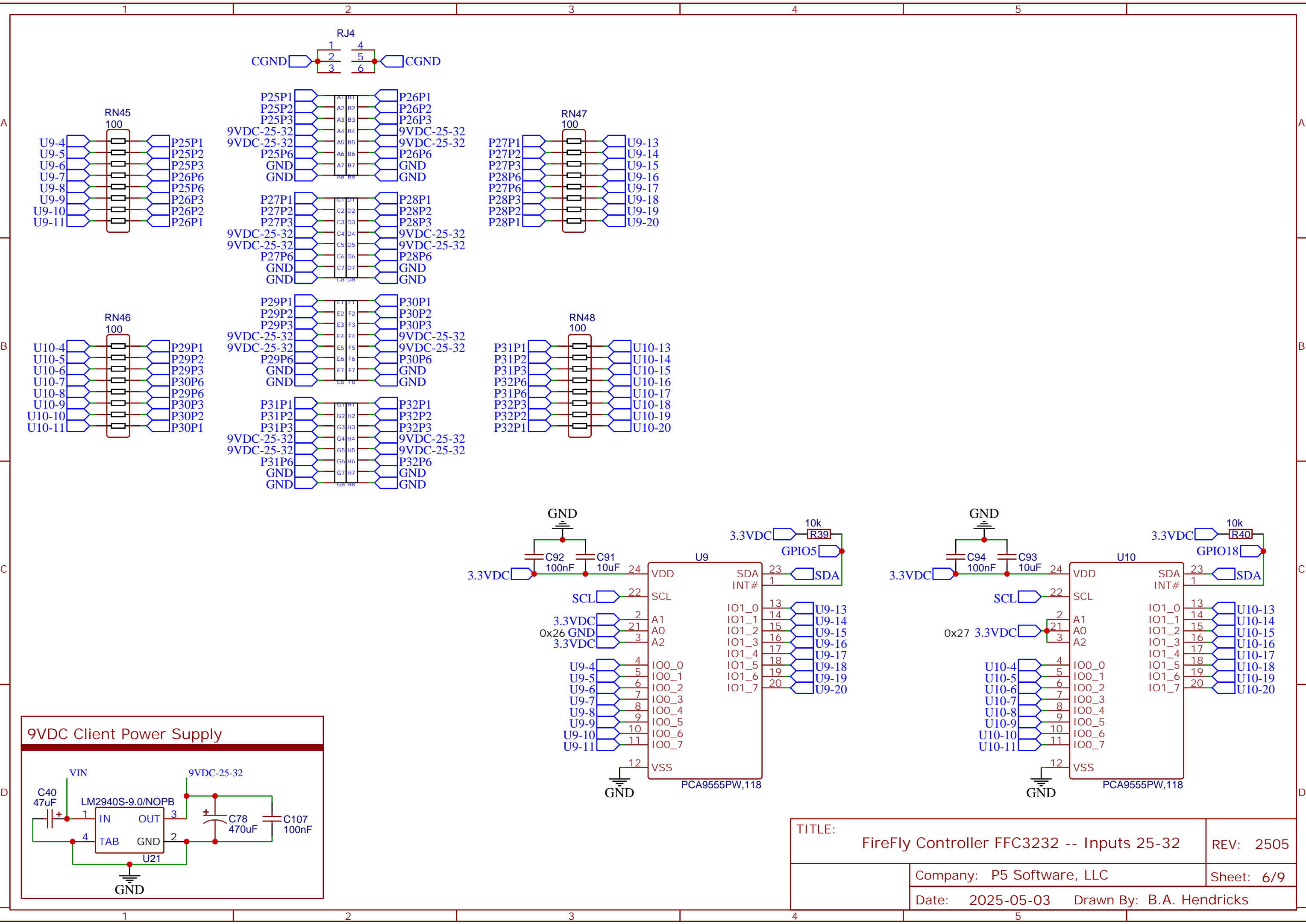


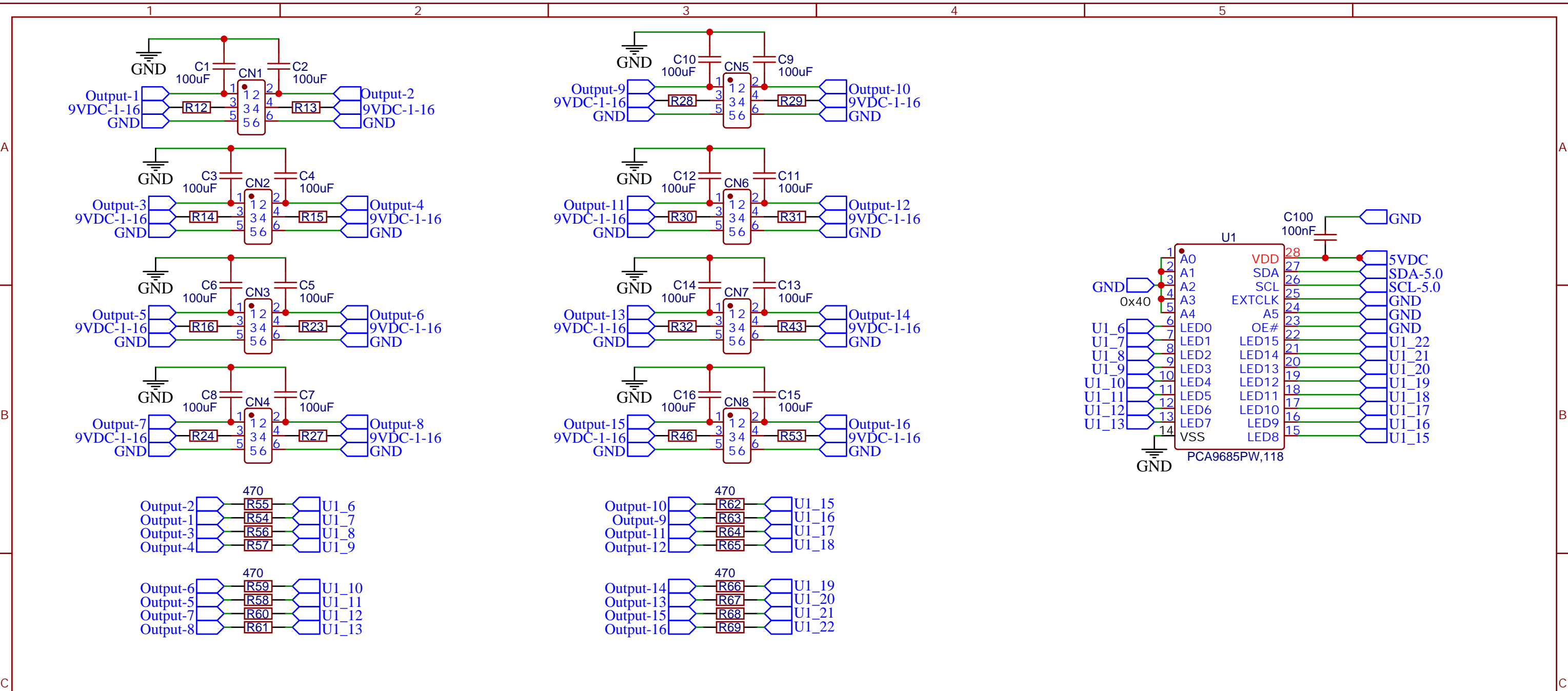




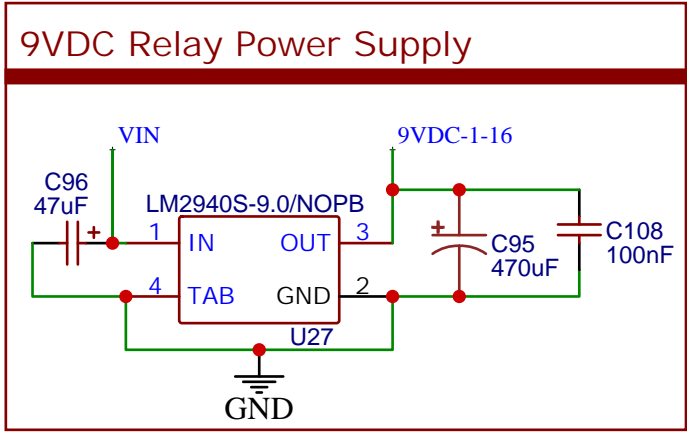
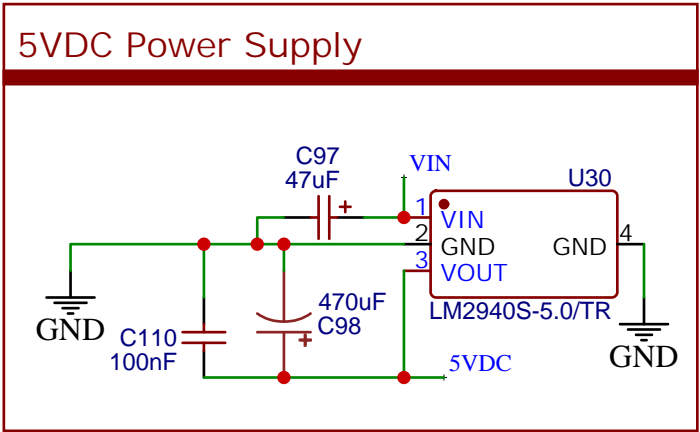
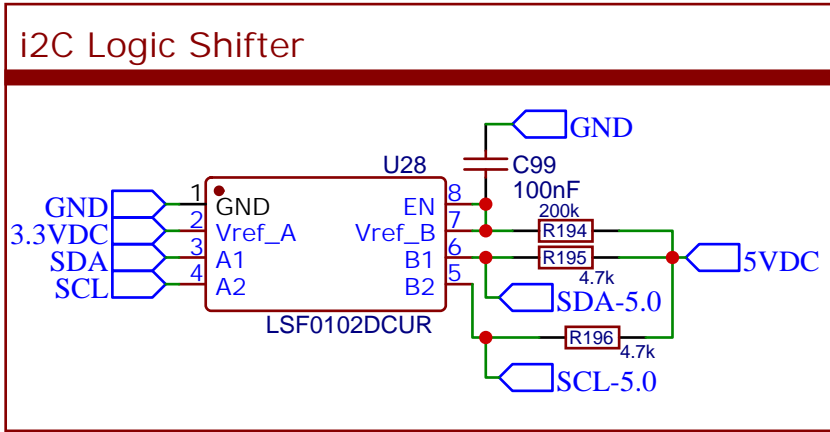


TITLE: FireFly Controller FFC3232 -- Inputs 17-24		REV: 2505
	Company: P5 Software, LLC	
	Date: 2025-05-03 Drawn By: B.A. Hendricks	

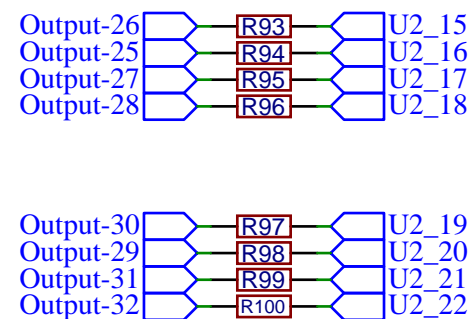
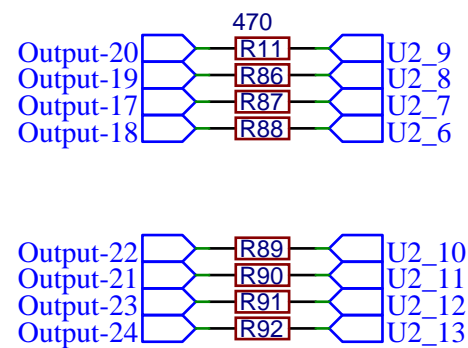
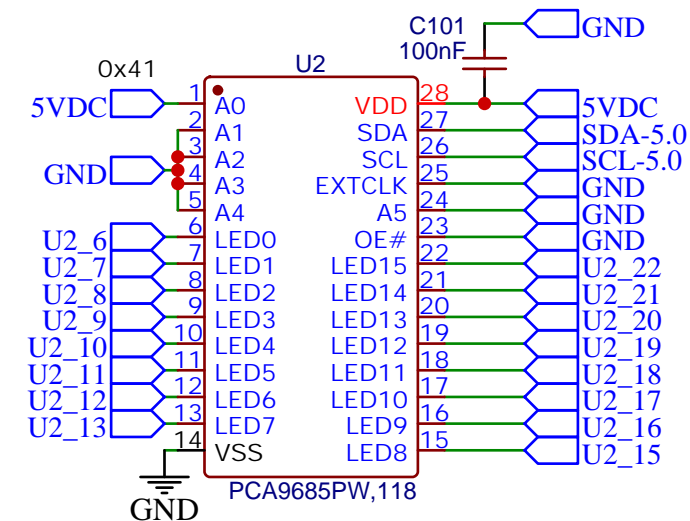
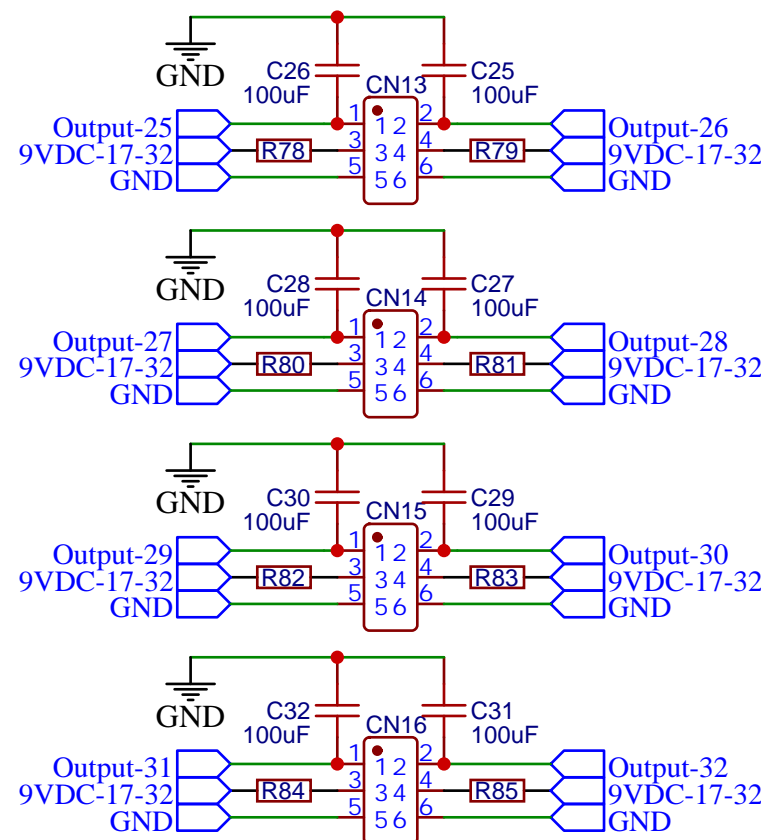
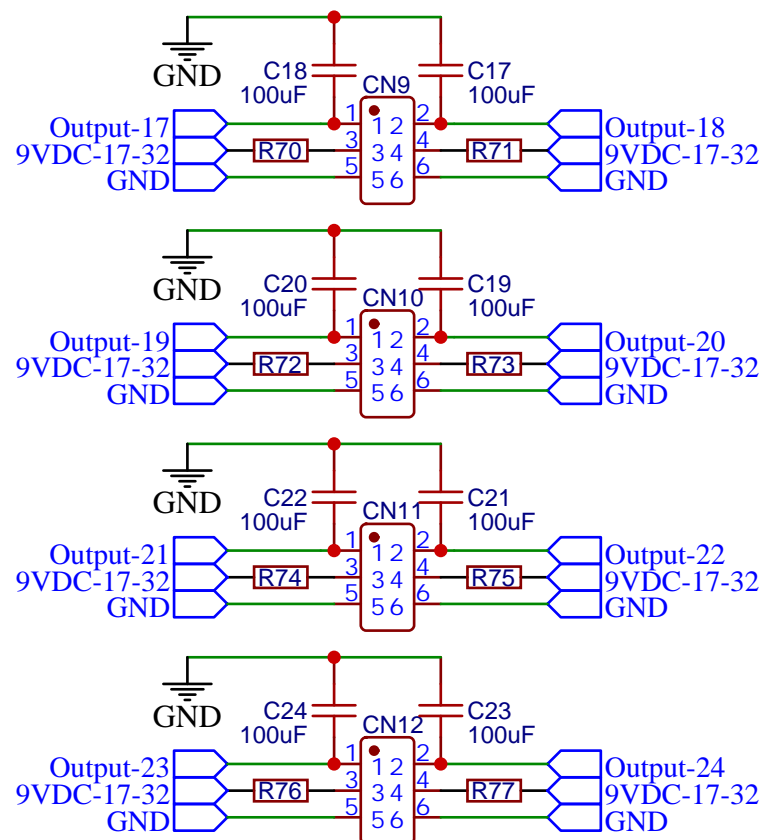




Resistors R12-R16, R23, R24,R27-R32, R43, R46, R53 = 1k

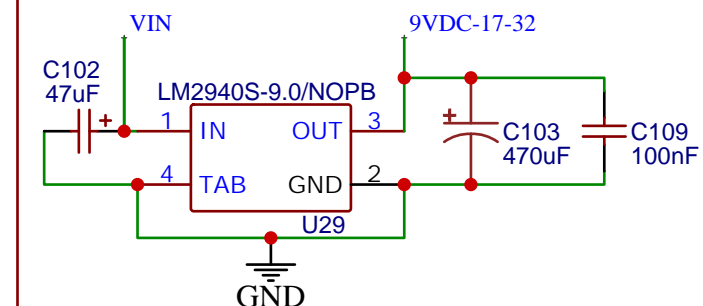


TITLE: FireFly Controller FFC3232 -- Outputs 1-16		REV: 2505
	Company: P5 Software, LLC	Sheet: 7/9
	Date: 2025-05-03 Drawn By: B.A. Hendricks	



Resistors R70-R85 = 1k

9VDC Relay Power Supply



TITLE: FireFly Controller FFC3232 -- Outputs 17-32		REV: 2505
	Company: P5 Software, LLC	Sheet: 8/9
	Date: 2025-05-03	Drawn By: B.A. Hendricks

Changes since 2211

- 1. OLED Display LED Button from GPIO32 to GPIO19
- 2. OLED Display LED from GPIO33 to GPIO2
- 3. U3 Interrupt from GPIO35 to GPIO34
- 4. U4 Interrupt from GPIO25 to GPIO35
- 5. U5 Interrupt from GPIO26 to GPIO33
- 6. U7 Interrupt from GPIO4 to GPIO15
- 7. U8 Interrupt from GPIO5 to GPIO4
- 8. U9 Interrupt from GPIO18 to GPIO5
- 9. U10 Interrupt from GPIO19 to GPIO18
- 10. U24 RSTn from 3.3VDC to GPIO26
- 11. U24 INTn from NC to GPIO32
- 12. U24 SCSn from GND to GPIO25
- 13. Multiple resistor and capacitor changes to correct Ethernet controller defects
- 14. U2 corrected address to 0x41 from 0x42
- 15. Changed port,channel definitions to have odd-numbered ports at the top and even-numbered ones at the bottom
- 16. Changed output ports definitions to have odd-numbered ports at the top and even-numbered ones at the bottom
- 17. Changed output resistor array to individual resistors due to EOL
- 18. Changed output capacitor to better smooth PWM output.

Addresses

0x20	Inputs Ports 1-4
0x21	Inputs Ports 5-8
0x22	Inputs Ports 9-12
0x23	Inputs Ports 13-16
0x24	Inputs Ports 17-20
0x25	Inputs Ports 21-24
0x26	Inputs Ports 25-28
0x27	Inputs Ports 29-32
0x40	Output Ports 1-16
0x41	Output Ports 17-32
0x70	Output All-Call
0x48	Temperature
0x50	EEPROM
0x3C	OLED Display Header (Check Display Pinout)

TITLE: FireFly Controller FFC3232 -- Notes		REV: 2505
	Company: P5 Software, LLC	Sheet: 9/9
	Date: 2025-05-03 Drawn By: B.A. Hendricks	