

A

B

C

D

E

A

B

C

D

E

headers for chaining
multiple boards

PWR/I2C OUT

JP2

SDA 1
GND A 2
GND A 3
+24V 4
SCL 5
GND A 6

PWR/I2C IN

JP3

SDA 1
GND A 2
GND A 3
+24V 4
SCL 5
GND A 6

heatsinks for
voltage regulators

HS1
V8813W
HS2
V8813W

voltage regulator for
shifting 24V down to 10V
(2 regulators to prevent overheating)

+24V
Vin

+10V
Vout

+10V

+24V
PWR IN

J1
1 +24V
2 GND A
PJ-037AH

power jack for connecting
to +24V power supply
for modular setup with multiple
boards/units, only 1 board needs
to be connected to the +24V supply

0.33 uF C_{in} required
if regulator is located an
appreciable distance from
power supply filter.
(from L78S datasheet)

Although no output capacitor
is needed for stability, it does
improve transient response
(from L78S datasheet)

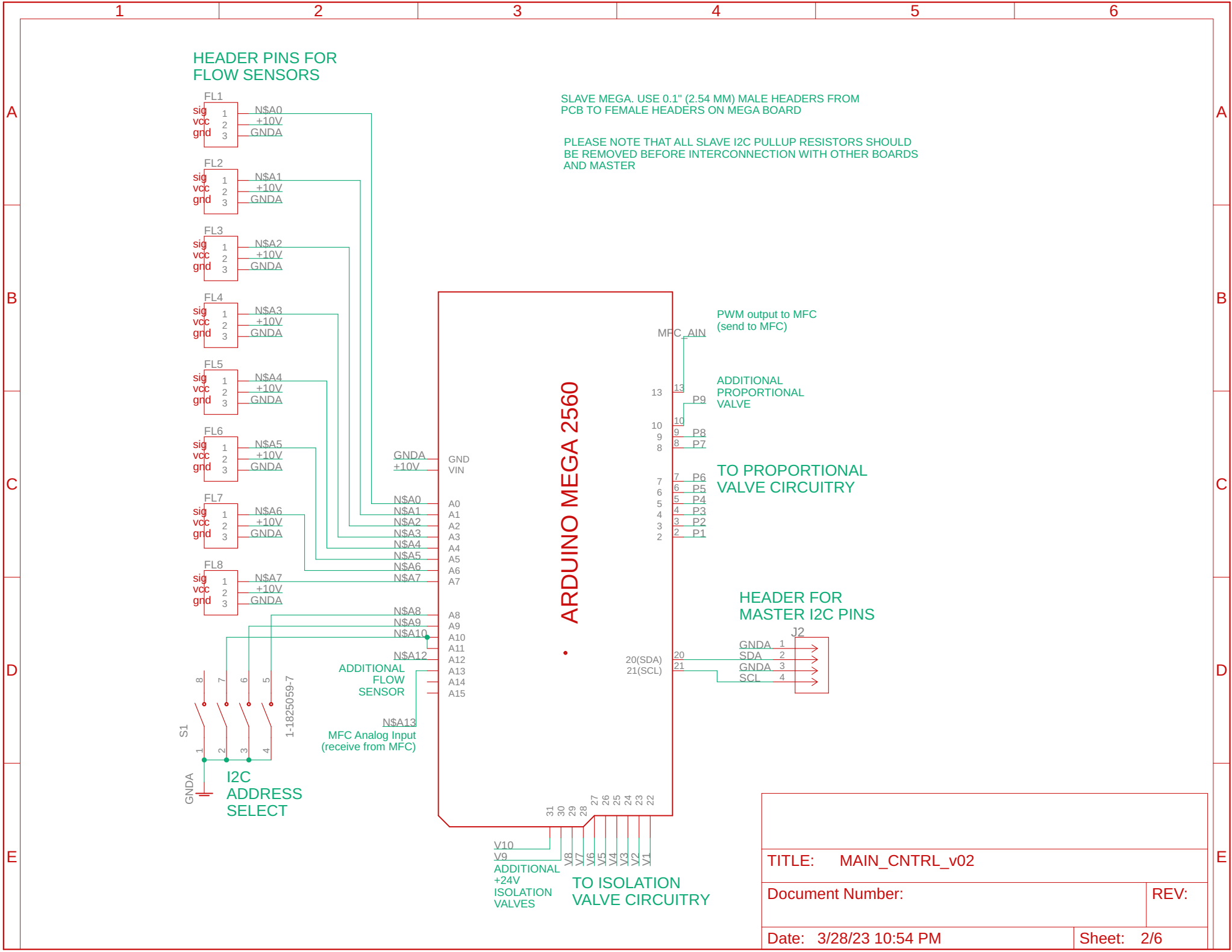
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Sheet: 1/6



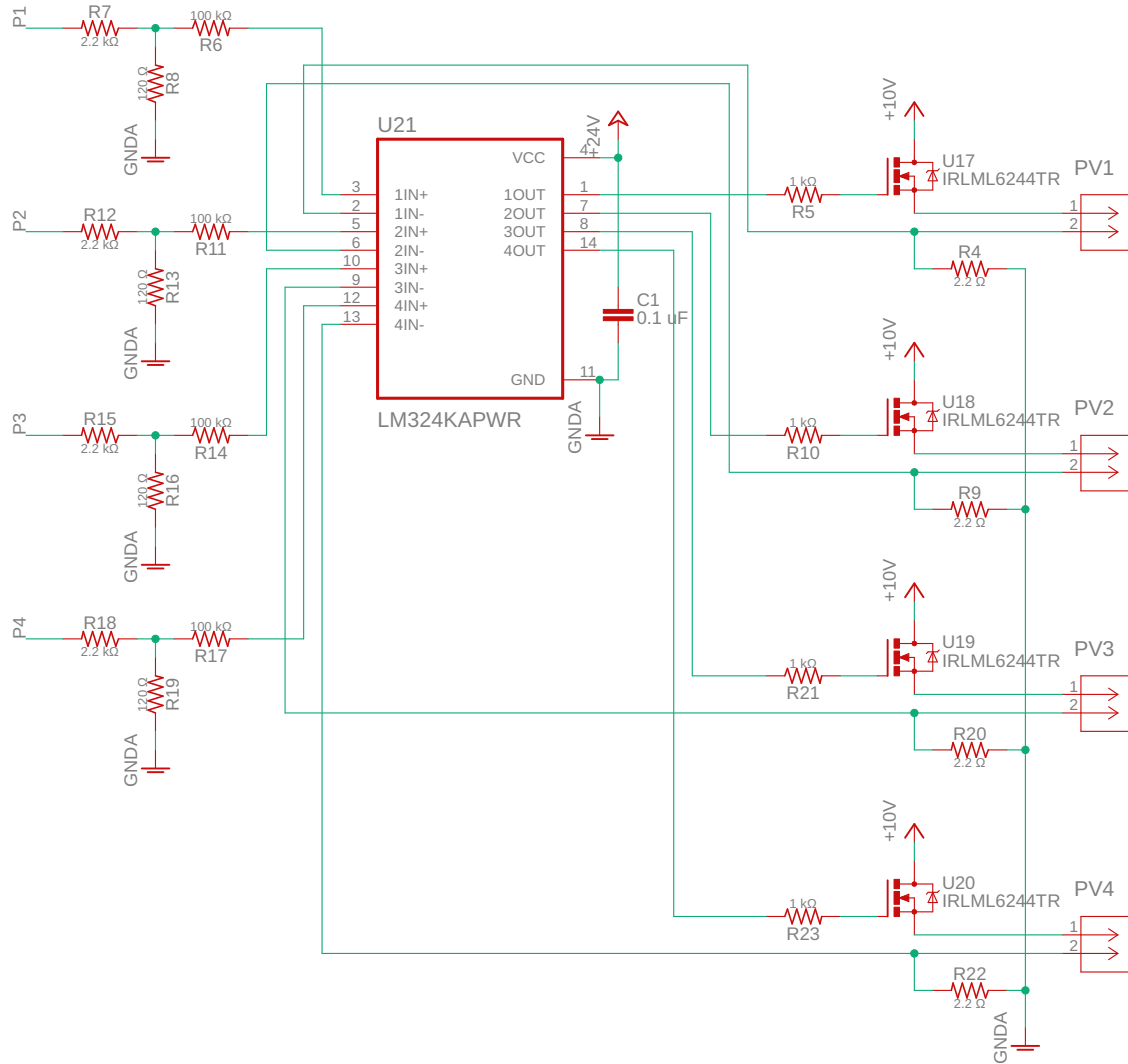
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Sheet: 2/6



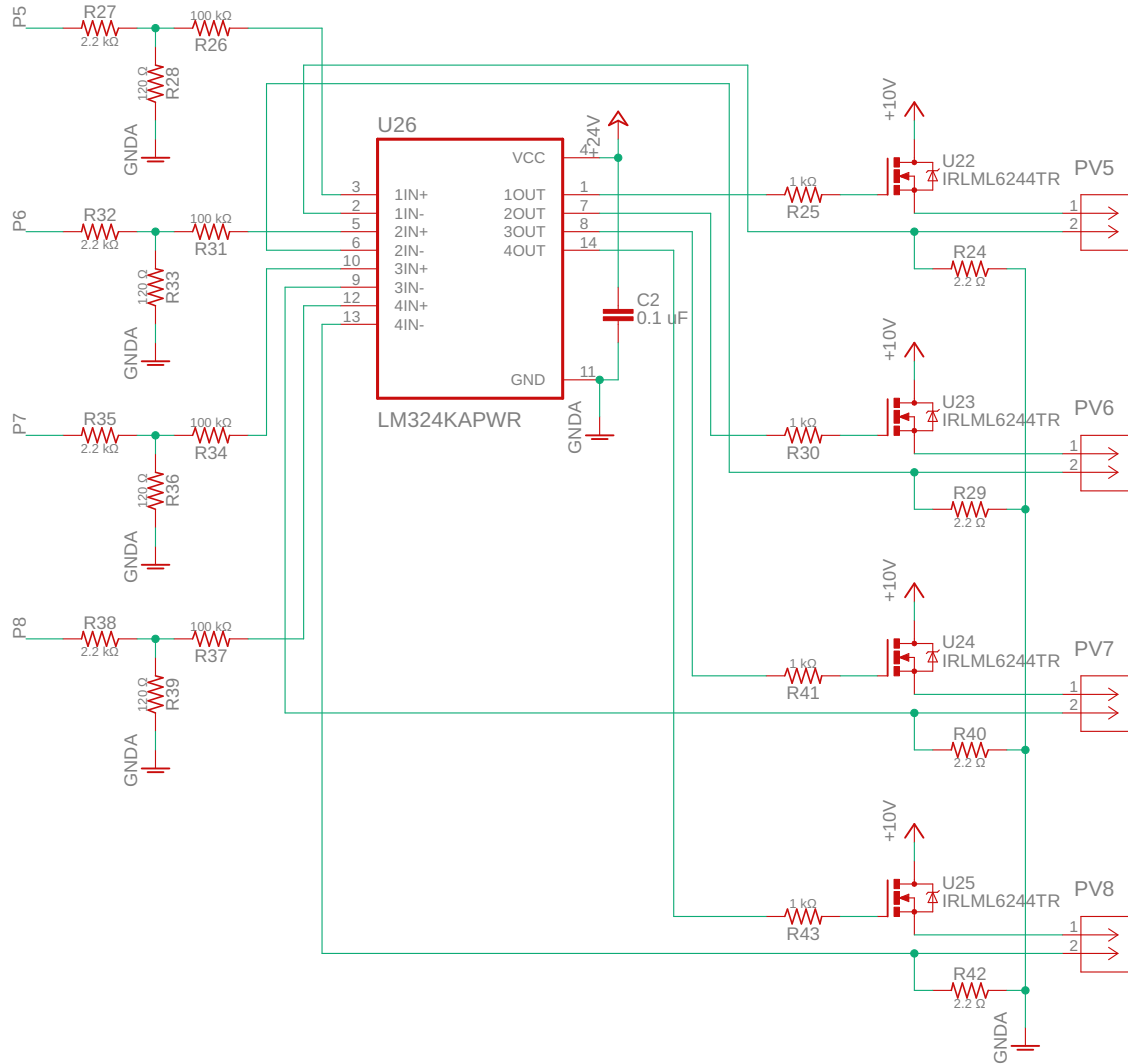
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Sheet: 3/6



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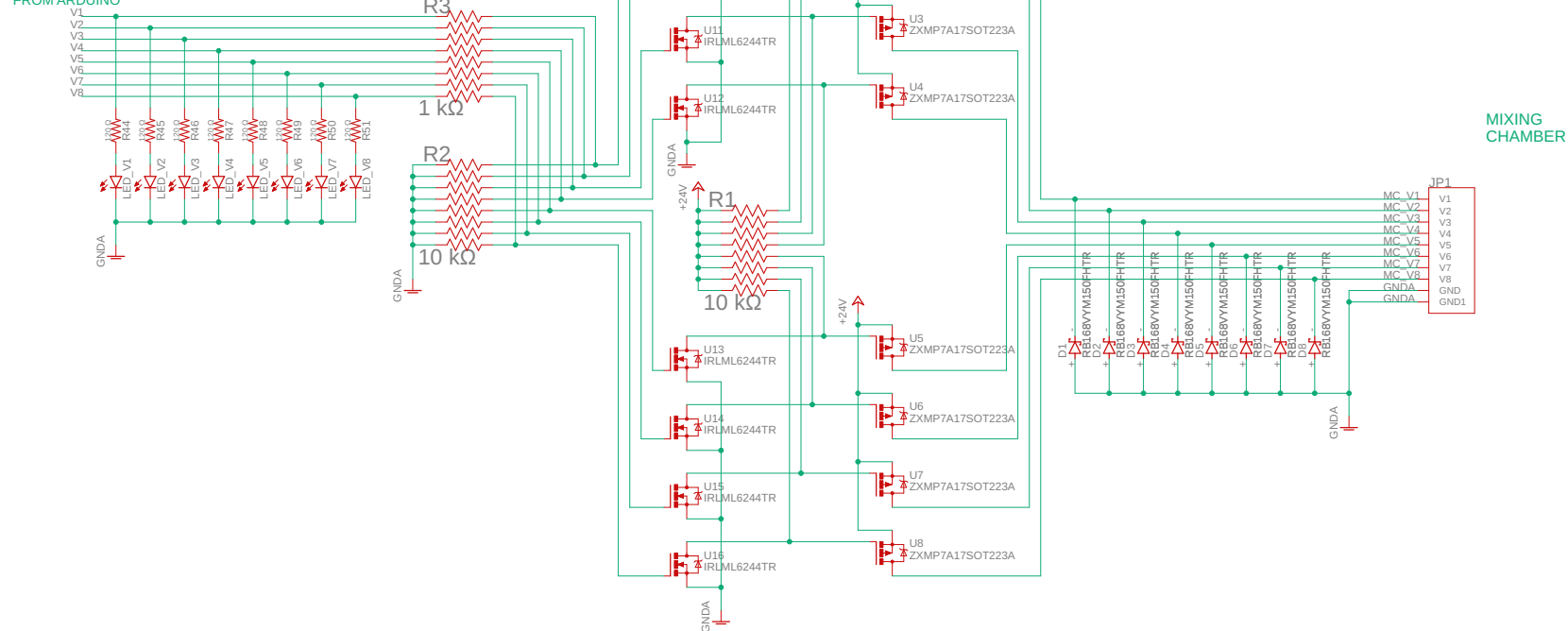
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Date: 3/28/23 10:54 PM

Sheet: 4/6

CONTROL SIGNAL (0-5V)
FROM ARDUINO



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Document Number:

REV:

Date: 3/28/23 10:54 PM

Sheet: 5/6

1

2

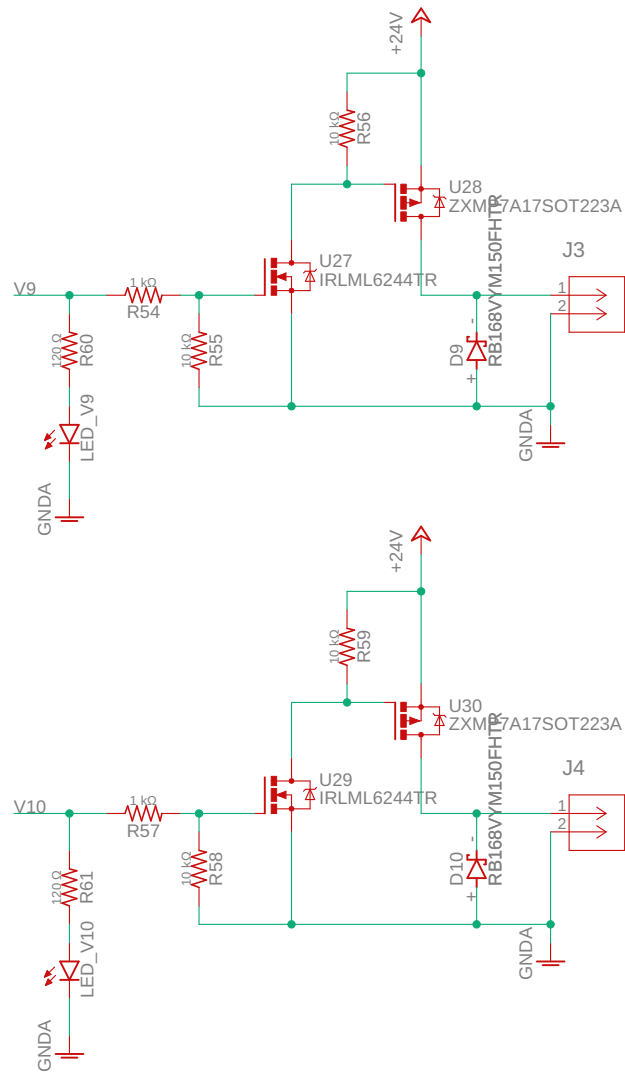
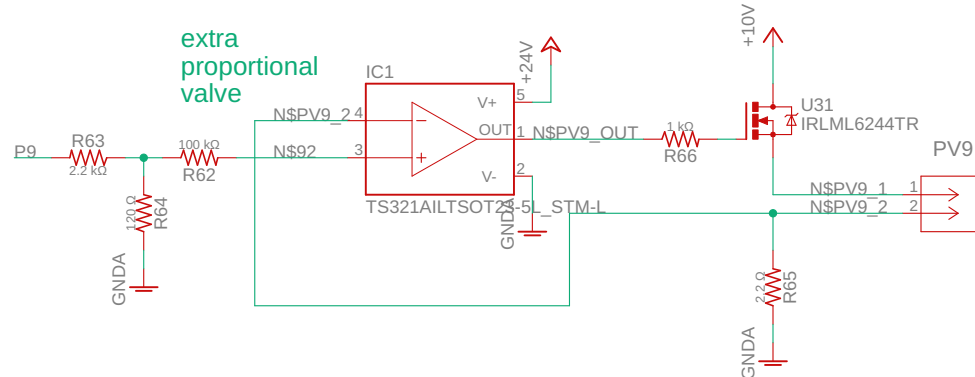
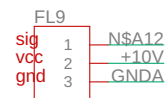
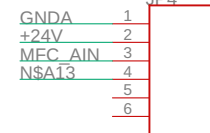
3

4

5

6

(x2) isolation valves

extra
proportional
valveheader pins for
extra flow sensorheader to
MFC board

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Document Number:

REV:

Date: 3/28/23 10:54 PM

Sheet: 6/6