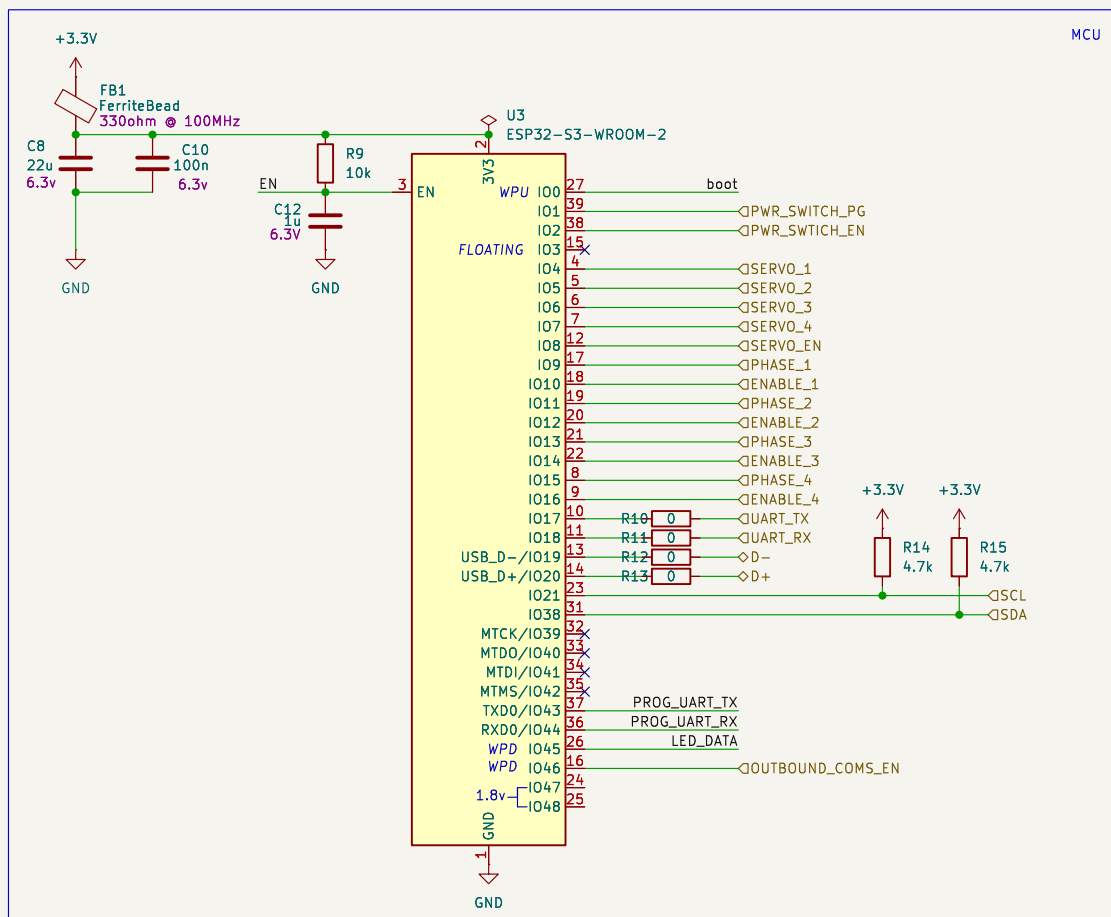
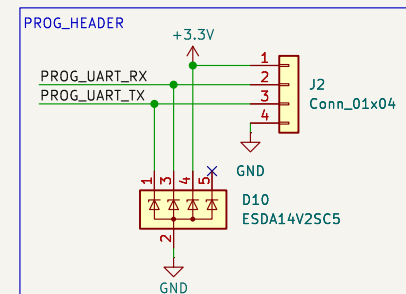
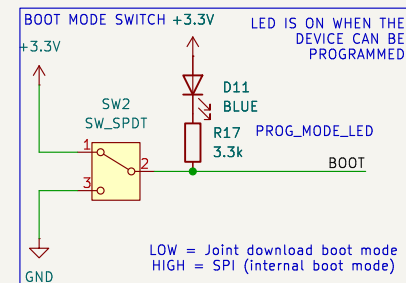
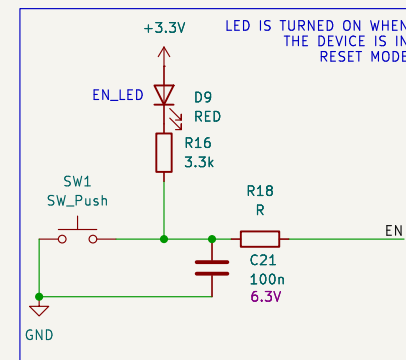
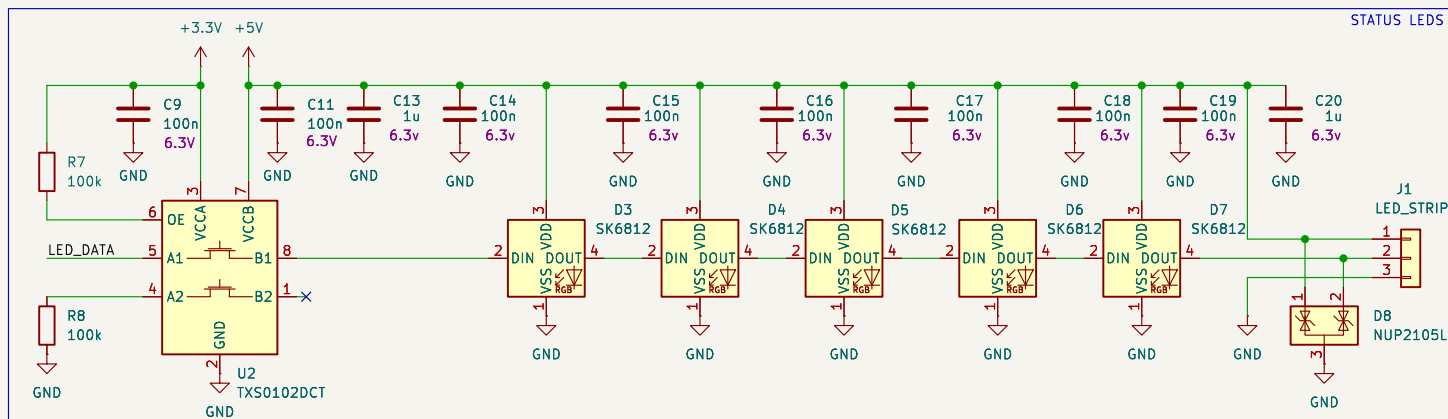


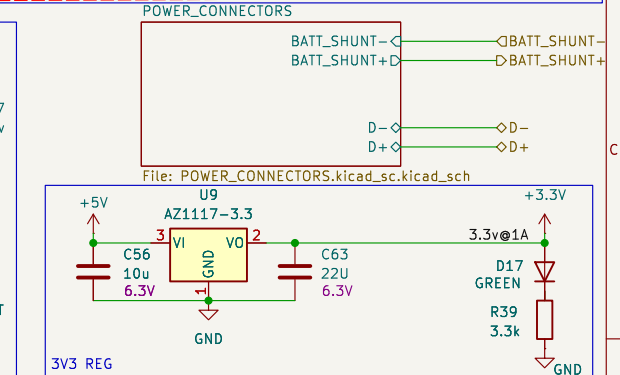
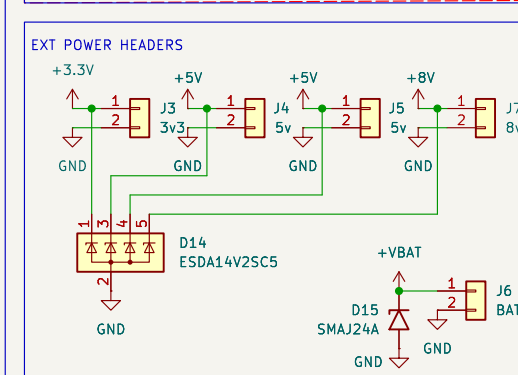
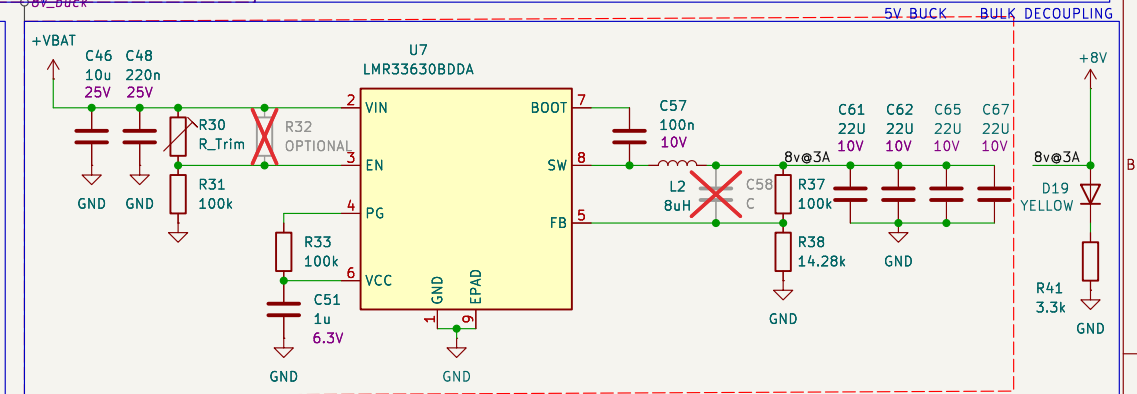
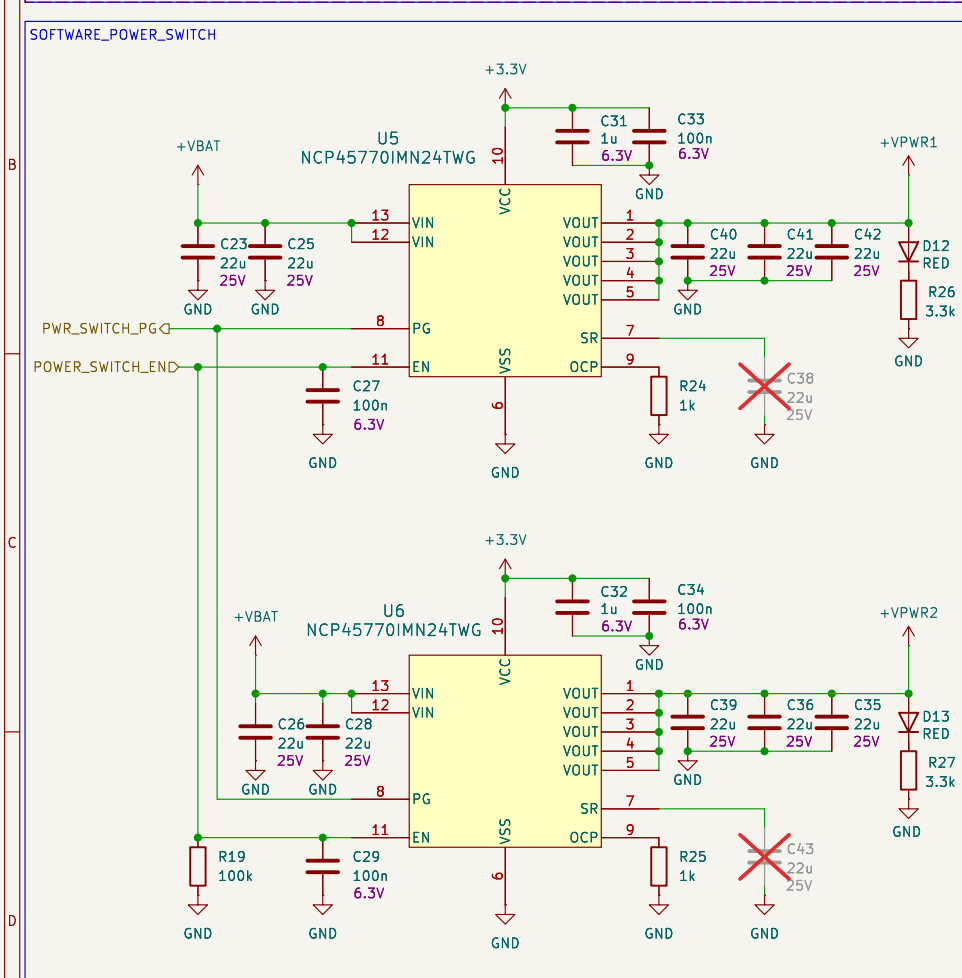
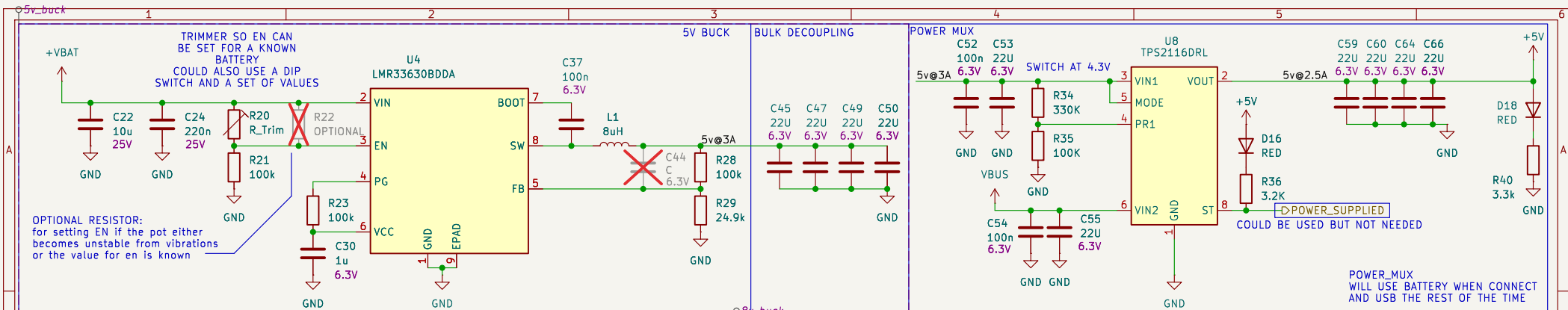
VREF should be 2V if shunt is 5mOhm and we want a 20A max.

IDrive dictates the current to the gate of mosfet, NC means 150ma source and 300ma sink.

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Size: A4	Date:
KiCad E.D.A. 9.0.7	Rev: Id: 2/10

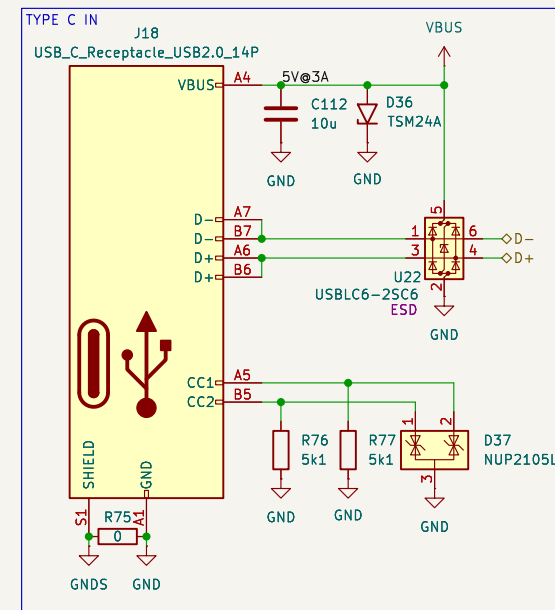
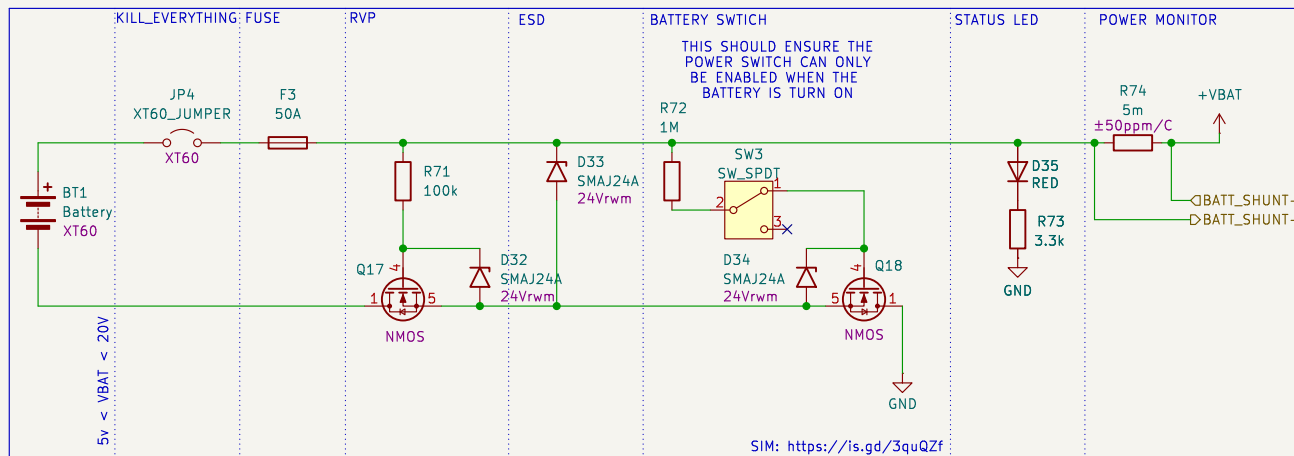


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Rev:
 Id: 3/10



THE REASON FOR THE POWER MUX IS PR1 WILL SWITCH @ 1V USB VOLTAGE IS A MIN OF 4.5V IF PASSED THROUGH AN OR-ING DIODE THEN IT WILL DROP IT ENOUGH TO NOT CLEAR THE 4.3V MIN REQUIRED BY THE AZ1117-3.3

PR1 WILL SWITCH @ 1V VOLTAGE DIV WILL SWAP TO VIN2 WHEN VIN1 REACHES 4.3V THE POINT WHERE THE 3.3V REG WILL DROP TOO MUCH VOLTAGE HOWEVER IT IS SUGGESTED THESE ARE REMOVED ONCE TESTING IS DONE



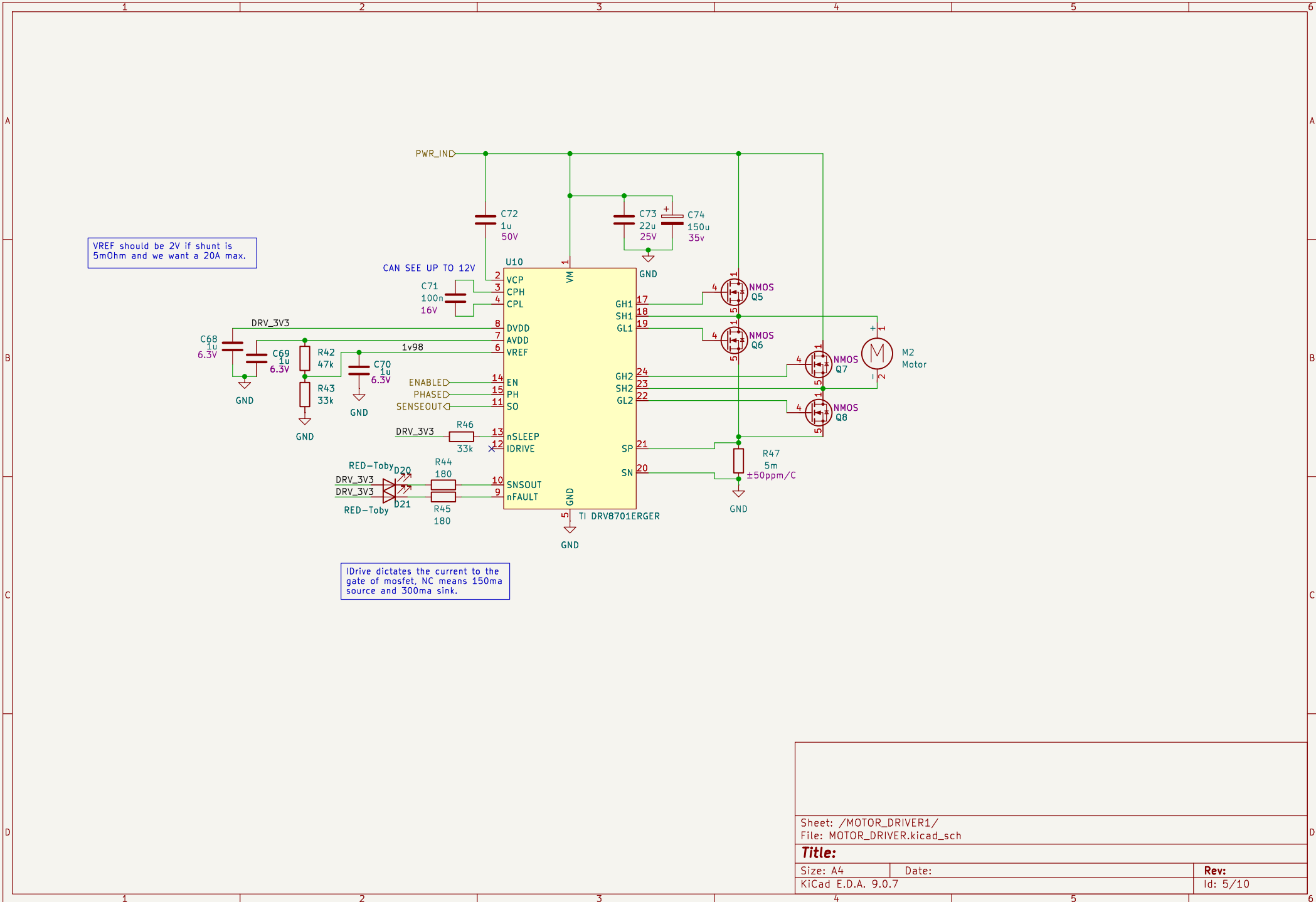
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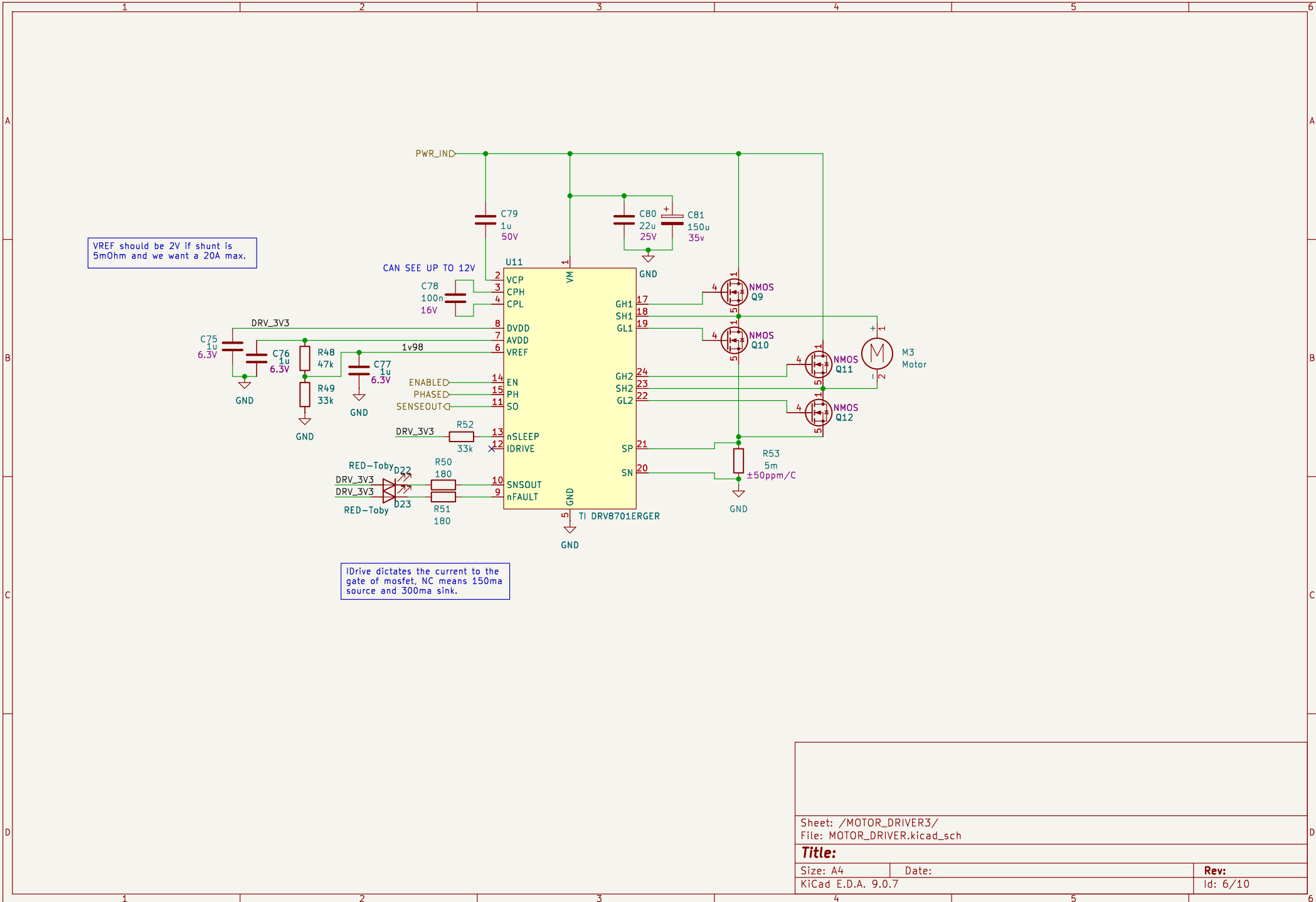
Rev:
 Id: 10/10



VREF should be 2V if shunt is 5mOhm and we want a 20A max.

IDrive dictates the current to the gate of mosfet, NC means 150ma source and 300ma sink.

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KiCad E.D.A. 9.0.7	Rev: Id: 5/10



VREF should be 2V if shunt is 5mOhm and we want a 20A max.

IDrive dictates the current to the gate of mosfet, NC means 150ma source and 300ma sink.

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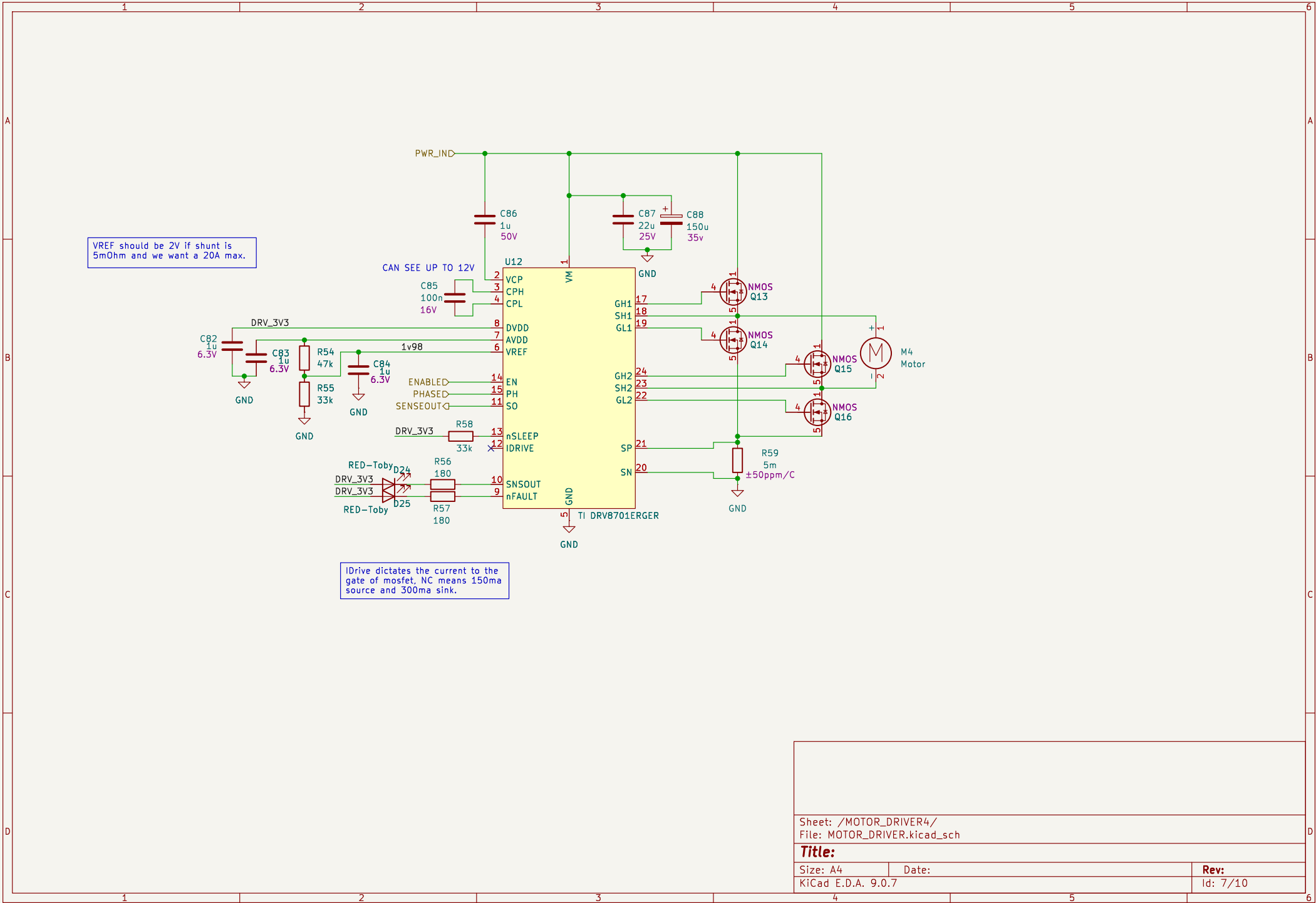
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Date:

Rev:

Id: 6/10



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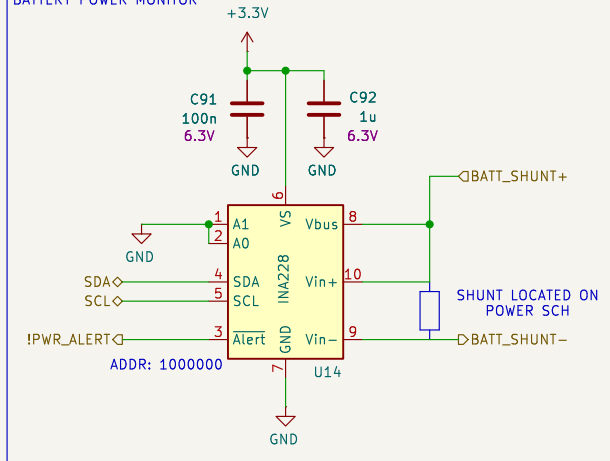
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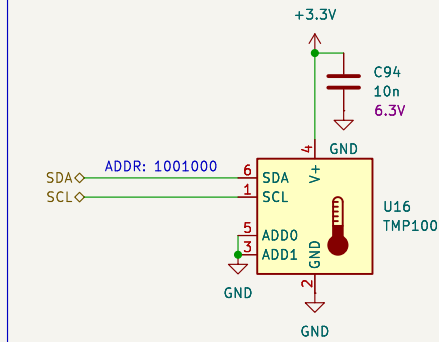
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Id: 7/10

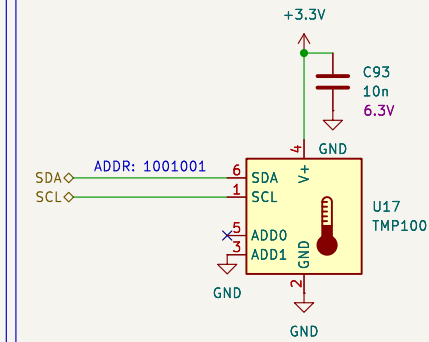
BATTERY POWER MONITOR



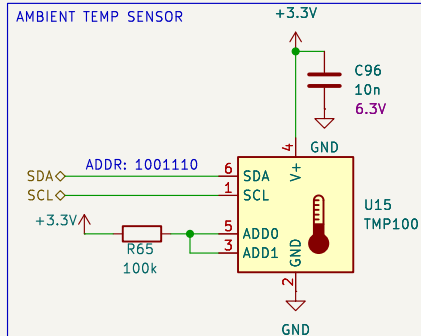
MOTOR DRIVER MOSFET TEMP MEASUREMENT SENSOR



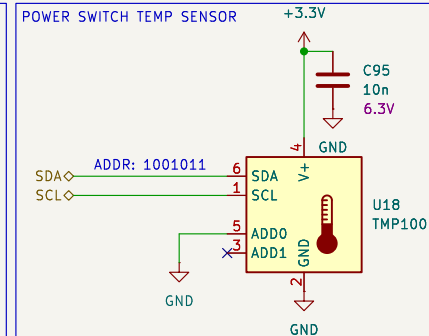
POWER MUX TEMP SENSOR



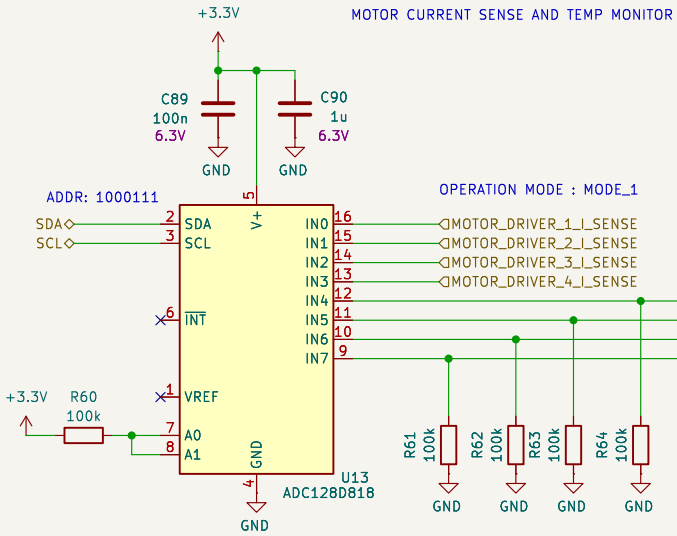
AMBIENT TEMP SENSOR



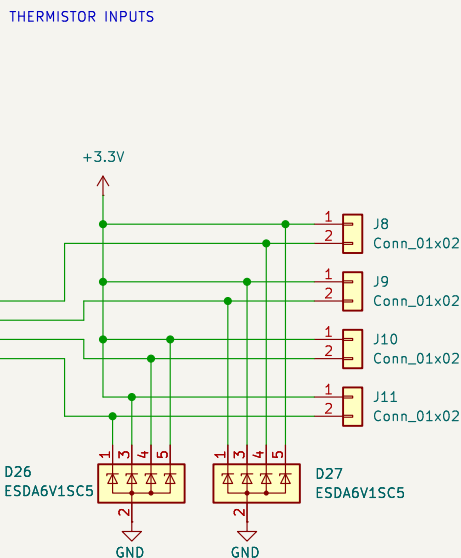
POWER SWITCH TEMP SENSOR



MOTOR CURRENT SENSE AND TEMP MONITOR



THERMISTOR INPUTS



points to measure temp:
software controlled power switch
power mux
motor drivers

Sheet: /BOARD_STAT_MESUREMENT/
File: BOARD_STAT_MESUREMENT.kicad_sch

Title:

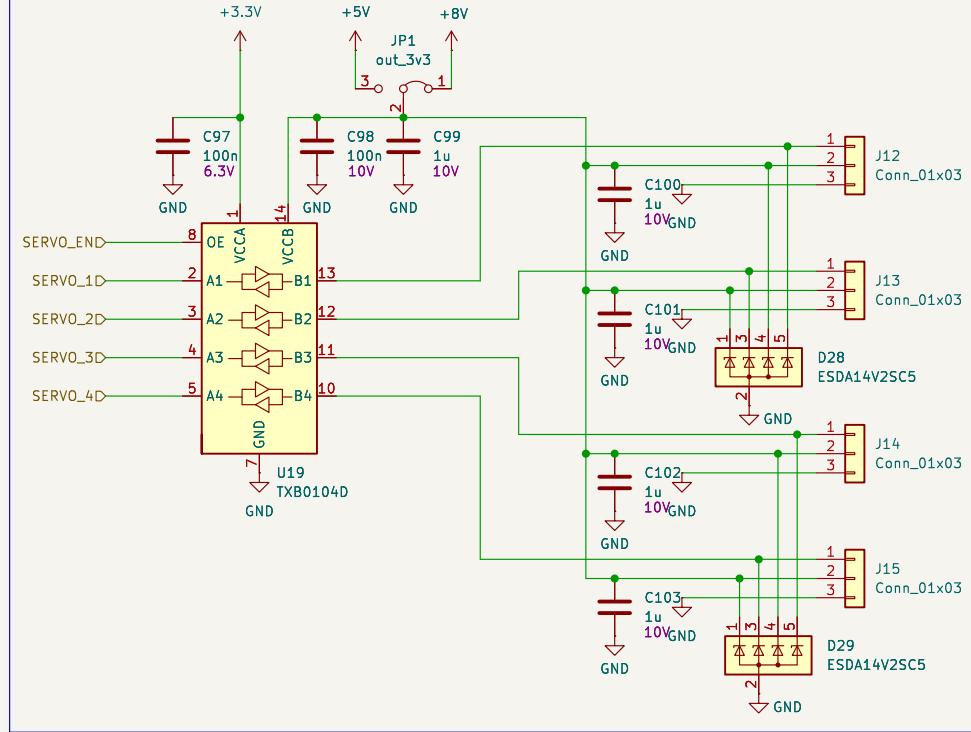
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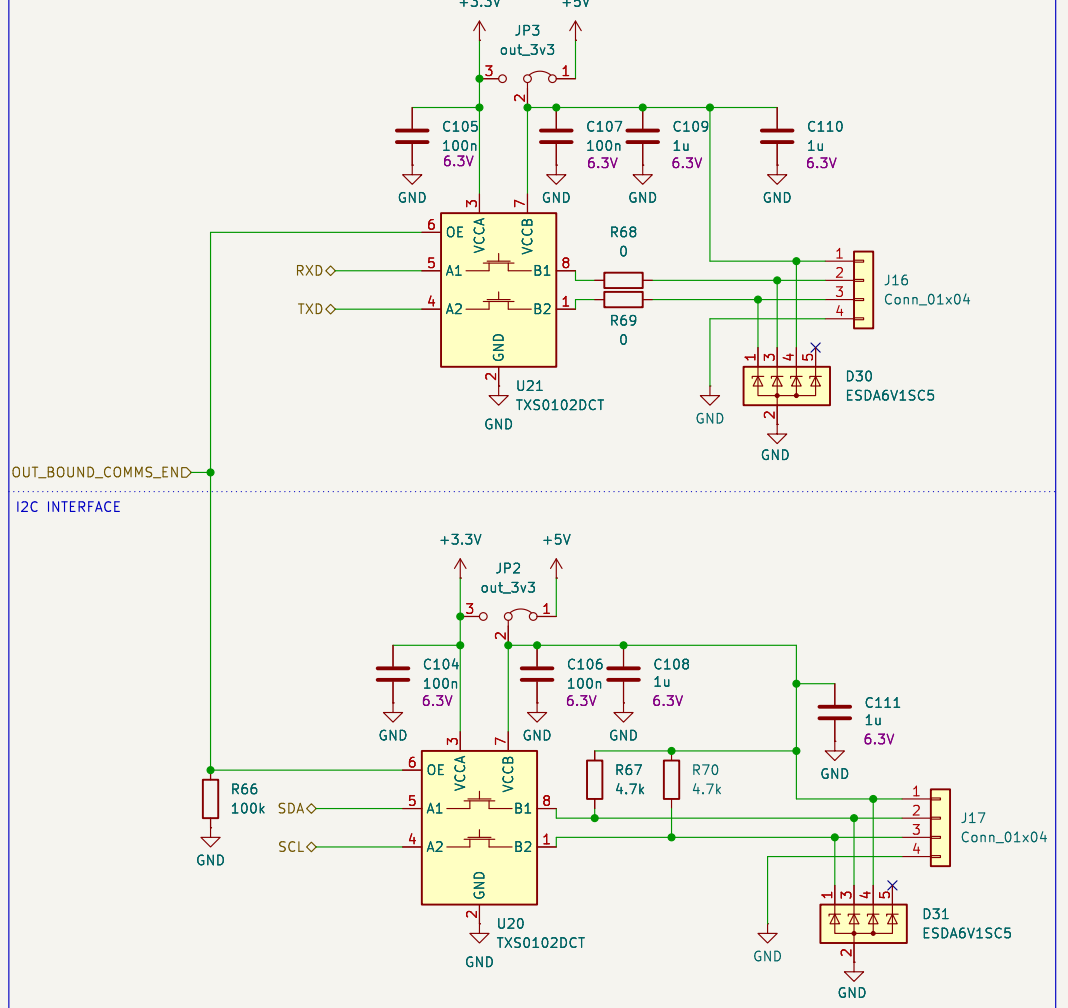
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SERVO INTERFACE



UART INTERFACE



Sheet: /EXTERNAL_INTERFACING_DEVICES/
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