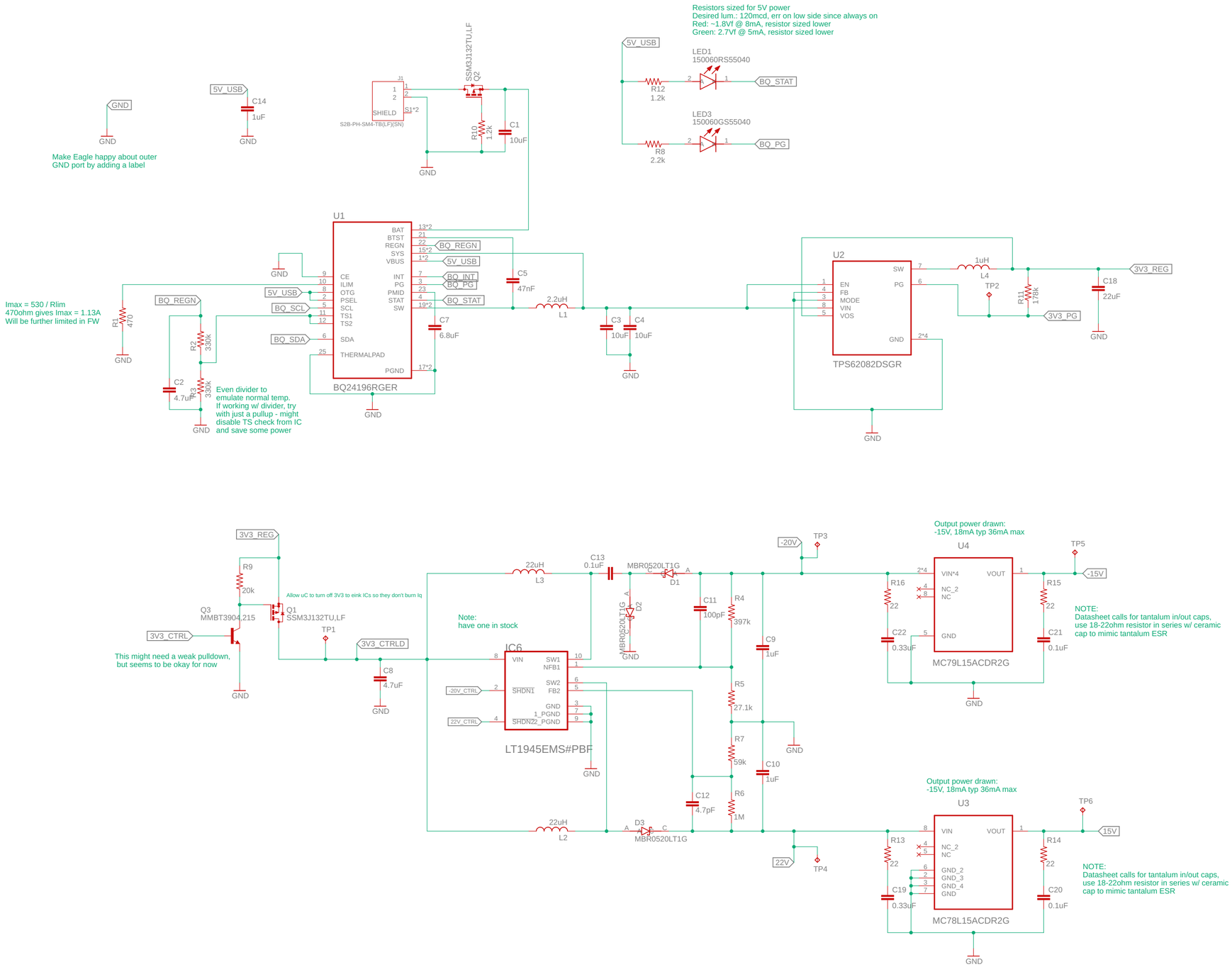
Resistors sized for 5V power
Desired lum.: 120mcd, err on low side since always on
Red: ~1.8Vf @ 8mA, resistor sized lower
Green: 2.7Vf @ 5mA, resistor sized lower
Make Eagle happy about outer GND port by adding a label
Imax = 530 / Rlim
470ohm gives Imax = 1.13A
Will be further limited in FW
Even divider to emulate normal temp. If working w/ divider, try with just a pullup - might disable TS check from IC and save some power
U1
BQ24196RGER
U2
TPS62082DSGR
LED1
150060RS55040
LED3
150060GS55040
SSM3J132TU,LF
S2B-PH-SM4-TB(LF)(SN)
5V_USB
3V3_REG
BQ_REGN
BQ_SCL
BQ_SDA
BQ_INT
BQ_PG
BQ_STAT
GND

Allow uC to turn off 3V3 to eink ICs so they don't burn Iq
This might need a weak pulldown, but seems to be okay for now
Q3
MMBT3904,215
Q1
SSM3J132TU,LF
Note:
have one in stock
IC6
LT1945EMS#PBF
MBR0520LT1G
Output power drawn:
-15V, 18mA typ 36mA max
U4
MC79L15ACDR2G
NOTE:
Datasheet calls for tantalum in/out caps, use 18-22ohm resistor in series w/ ceramic cap to mimic tantalum ESR
Output power drawn:
-15V, 18mA typ 36mA max
U3
MC78L15ACDR2G
NOTE:
Datasheet calls for tantalum in/out caps, use 18-22ohm resistor in series w/ ceramic cap to mimic tantalum ESR
3V3_REG
3V3_CTRL
3V3_CTRLD
-20V_CTRL
22V_CTRL
-20V
-15V
22V
15V
GND