100n STM RST +3V3 ← PAO 11 TX PAO 11 TX PAO 11 TX PAO 12 TX PAO 14 TX PAO 16 PAO 16 PAO 16 PAO 17 TX PAO 16 PAO 17 TX PAO 17 T R31 R\_Photo D1 D1 GND (-GND (1-GND +3V3 ← → GND +3V3 ← — GND GND ( 22p C3 LED CD74HC4067SM C4 C5 5 1 4 5 5 1 2 5 0.1u R35 10K R37 10K J1 Conn\_01x04 M2\_S0 21 PB10
M2\_S1 22 PB11
25 PB12
26 PB13
27 PB14
28 PB15 GND GND GND GND GND GND MUX +3V3 +3V3 Conn\_01x04 1 2 RX 3 TX 4 U3 STM32F103CBTx D3 D4 LED LED Z D5 LED L D6 V D7 V D8 V D9 V D10 V LED V LED V LED V LED V GND Connection GND +12V SS510 +48V 56uH LM2587S-ADJ R38 57k C10 R39 RV1 10k 2.94k R40 1.5k D28 V D29 V D30 V D31 V D32 V D33 V LED V LED V LED V + C12 GND LED GND +12V 1 J3 Conn\_01x02 +12V MTH1 MountingHole\_Pad MTH2 MountingHole\_Pad R? D34 1N5401 MTH3 MountingHole\_Pad MTH4 MountingHole\_Pad 112 PC817 MTH5 MountingHole\_Pad MountingHole\_Pad Sol R41 20 <u>\*</u> \* = [ Q1 STP75NF75 MTH7 MountingHole\_Pad MTH8 MountingHole\_Pad 1500pF MTH9 MountingHole\_Pad MTH10 MountingHole\_Pad MTH11 MountingHole\_Pad MTH12 MountingHole\_Pad GND GND Sentinels Robotics MTH13 MountingHole\_Pad MTH14 MountingHole\_Pad Sheet: / File: 2024|1.kicad\_sch Title: Layer 1 MTH15 MountingHole\_Pad MTH16 MountingHole\_Pad Activation Circuit Size: A3 Date: 2023-04-21 KiCad E.D.A. kicad 7.0.6-0 ld: 1/1