+12V U1 Driver\_Motor\_MotorDriver1 +3.3V +3.3V AIN2 15 AIN1 14 FL\_IN2 U2 Teensy4.0 \_\_FL\_IN1 GND 39\_DAT2\_TX5
38\_DAT3\_RX5
37\_CMD\_SCK2
3V3
36\_CLK\_CS2
GND
35\_DAT0\_MOS12
34\_DAT1\_MISO2
32\_DAT14
31\_CTX3
30\_CRX3
29\_TX7
28\_RX7
27\_A13\_SCK1
26\_A12\_MOS11
25\_A11\_RX6\_SDA2
24\_A10\_TX6\_SCL2
35\_X MOTOR\_FL\_0 4 A01
MOTOR\_FL\_1 5 A02
MOTOR\_FR\_0 6 B02
MOTOR\_FR\_1 7 B01
GND MOTOR\_FL\_0\_ STBY 13
BIN1 12 FR\_IN1
BIN2 11 FR\_IN2
PWMB 10 FR\_EN
9 GND **Mounting Holes SERVO** X\_SERVO\_ 3mm\_Mounting\_Hole 3mm\_Mounting\_Hole Conn\_01x03 H2 H4 Y\_SERVO 1 2 VUSB 34 × +3.3V Conn\_01x03 3mm\_Mounting\_Hole 3mm\_Mounting\_Hole 3.6V to 5.5V VIN 33 +3.3V GND 32 max 250mA 3V3 31 3\_A9\_CRX1\_NCV SERVO\_POWER\_ +3.3٧ 23\_A9\_CRX1\_MCLK1 22\_A8\_CTX1 Ultrasonic 2.5 FL\_EN 12V POWER IN +12V SONAR\_TRIGGER 2 SONAR\_ECHO 3 Screw\_Terminal\_01x02 2 PWR\_FLAG GND GND H C M 7 L O PWR\_FLAG SERVO POWER INPUT \_FL\_ENCODER\_B +3.3V J6 0 1
Screw\_Terminal\_01x02 0 2 \_SERVO\_POWER \_FL\_ENCODER\_A GND \_MOTOR\_FL\_0 \_MOTOR\_FL\_1 JP1 Jumper\_2\_Open GND Front Right Wheel C D FR\_ENCODER\_B +3.3V FR\_ENCODER\_A Champion Metrics Inc \_MOTOR\_FR\_1 Sheet: / File: Brandeis\_Platform.kicad\_sch GND Title: Brandeis Bot Connection Board Size: A3 Date: 2021-02-03 KiCad E.D.A. kicad (6.0.7)