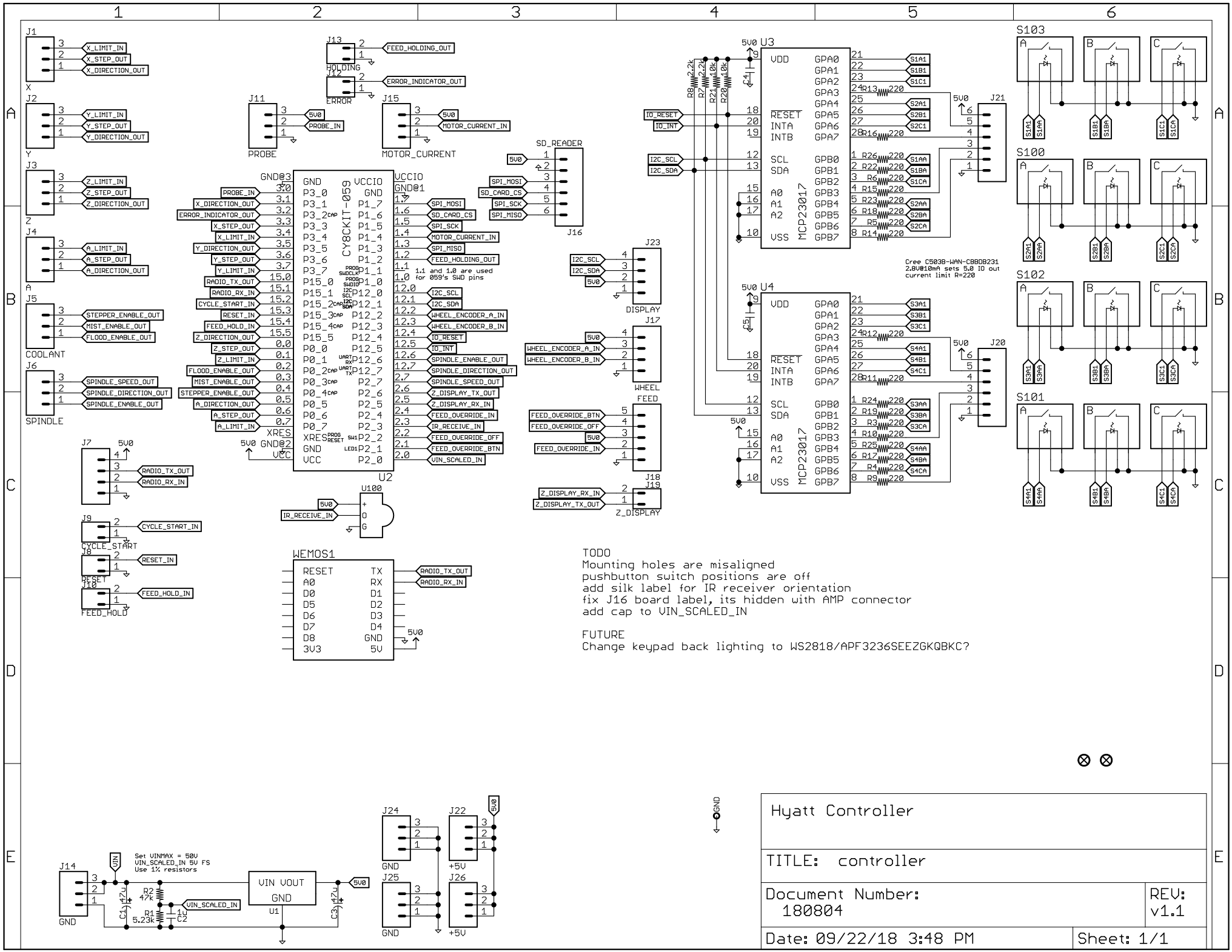
J1 X
X_LIMIT_IN
X_STEP_OUT
X_DIRECTION_OUT
J2 Y
Y_LIMIT_IN
Y_STEP_OUT
Y_DIRECTION_OUT
J3 Z
Z_LIMIT_IN
Z_STEP_OUT
Z_DIRECTION_OUT
J4 A
A_LIMIT_IN
A_STEP_OUT
A_DIRECTION_OUT
J5 COOLANT
STEPPER_ENABLE_OUT
MIST_ENABLE_OUT
FLOOD_ENABLE_OUT
J6 SPINDLE
SPINDLE_SPEED_OUT
SPINDLE_DIRECTION_OUT
SPINDLE_ENABLE_OUT
J13 HOLDING
FEED_HOLDING_OUT
J12 ERROR
ERROR_INDICATOR_OUT
J11 PROBE
5V0
PROBE_IN
J15 MOTOR_CURRENT
MOTOR_CURRENT_IN
SD_READER
J16
SPI_MOSI
SD_CARD_CS
SPI_SCK
SPI_MISO
CY8CKIT-059
U2
GND@3
VCCIO
GND@1
GND@2
XRES
VCC
PROBE_IN
X_DIRECTION_OUT
ERROR_INDICATOR_OUT
X_STEP_OUT
X_LIMIT_IN
Y_DIRECTION_OUT
Y_STEP_OUT
Y_LIMIT_IN
RADIO_TX_OUT
RADIO_RX_IN
CYCLE_START_IN
RESET_IN
FEED_HOLD_IN
Z_DIRECTION_OUT
Z_STEP_OUT
Z_LIMIT_IN
FLOOD_ENABLE_OUT
MIST_ENABLE_OUT
STEPPER_ENABLE_OUT
A_DIRECTION_OUT
A_STEP_OUT
A_LIMIT_IN
SPI_MOSI
SD_CARD_CS
SPI_SCK
MOTOR_CURRENT_IN
SPI_MISO
FEED_HOLDING_OUT
1.1 and 1.0 are used for 059's SWD pins
I2C_SCL
I2C_SDA
WHEEL_ENCODER_A_IN
WHEEL_ENCODER_B_IN
IO_RESET
IO_INT
SPINDLE_ENABLE_OUT
SPINDLE_DIRECTION_OUT
SPINDLE_SPEED_OUT
Z_DISPLAY_TX_OUT
Z_DISPLAY_RX_IN
FEED_OVERRIDE_IN
IR_RECEIVE_IN
FEED_OVERRIDE_OFF
FEED_OVERRIDE_BTN
VIN_SCALED_IN
J7
J9 CYCLE_START
J8 RESET
J10 FEED_HOLD
U100
WEMOS1
RESET
A0
D0
D5
D6
D7
D8
3V3
TX
RX
D1
D2
D3
D4
GND
5V
U3
U4
MCP23017
VDD
VSS
RESET
INTA
INTB
SCL
SDA
A0
A1
A2
GPA0
GPA1
GPA2
GPA3
GPA4
GPA5
GPA6
GPA7
GPB0
GPB1
GPB2
GPB3
GPB4
GPB5
GPB6
GPB7
J21
J20
J23 DISPLAY
J17 WHEEL
J18 FEED
J19 Z_DISPLAY
S103
S100
S102
S101
Cree C503B-WAN-CBBDB231
2.8V@10mA sets 5.0 IO out
current limit R=220
TODO
Mounting holes are misaligned
pushbutton switch positions are off
add silk label for IR receiver orientation
fix J16 board label, its hidden with AMP connector
add cap to VIN_SCALED_IN
FUTURE
Change keypad back lighting to WS2818/APF3236SEEZGKQBKC?
J14
VIN
Set VINMAX = 50V
VIN_SCALED_IN 5V FS
Use 1% resistors
R2 47k
R1 5.23k
C2 1u
C1 47u
C3 47u
VIN VOUT
GND
U1
J24
J22
J25
J26
+5V
GND
Hyatt Controller
TITLE: controller
Document Number: 180804
REV: v1.1
Date: 09/22/18 3:48 PM
Sheet: 1/1