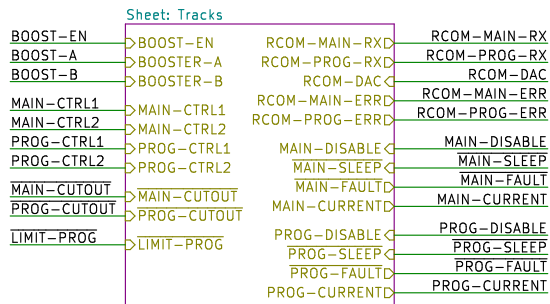
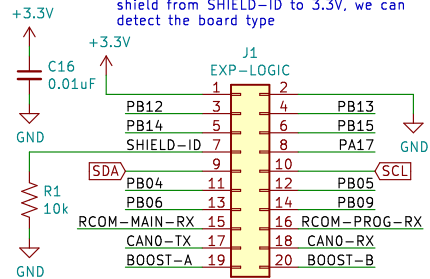


## Tracks

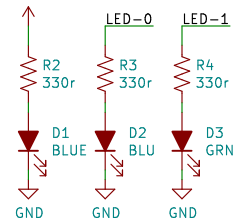


## Expansion Headers

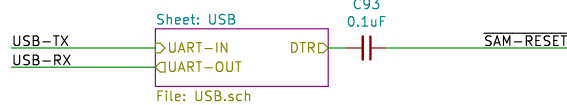
Depending on the value of resistor on the shield from SHIELD-ID to 3.3V, we can detect the board type



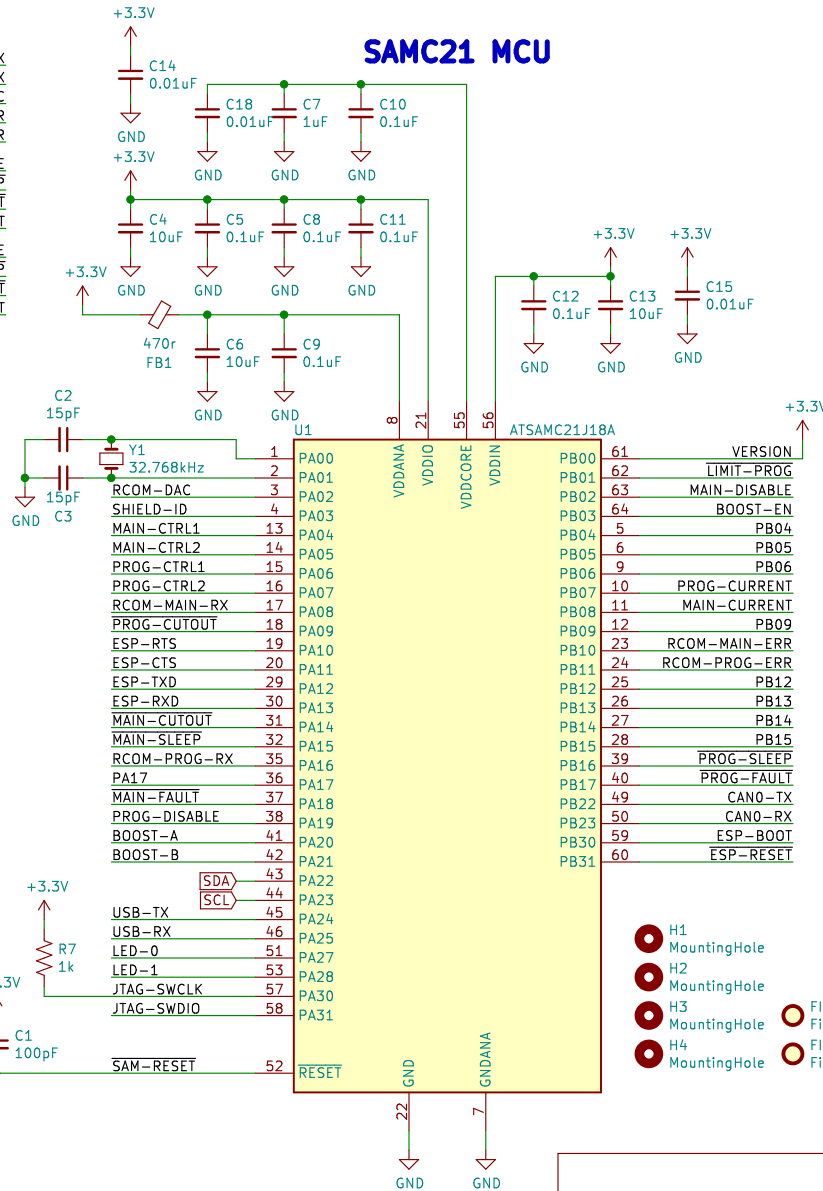
## Status LEDs



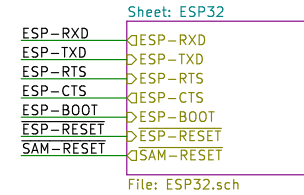
## Isolated USB



## SAMC21 MCU

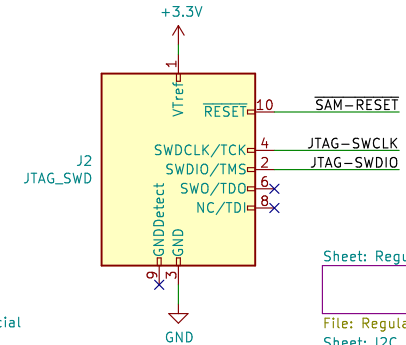


## ESP32 WIFI



## Extra Decoupling Caps

## JTAG SWD Header



Sheet: Regulator

File: Regulator.sch

Sheet: I2C

File: I2C.sch

## Wasatch Scale Models

Sheet: /  
File: FireBox.sch

## Title: Main

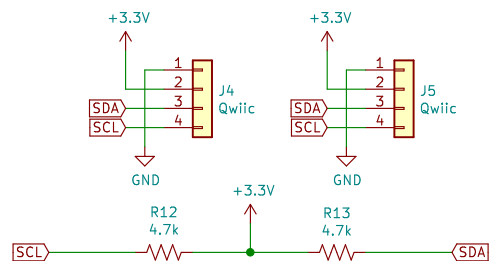
Size: A Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.6)-1

Rev: 1.1.0  
Id: 1/8

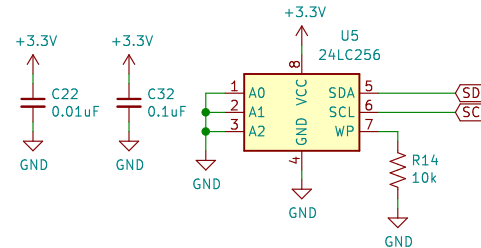
## VERSION DETECTION

MK15 MK1T  
PB00 Low High

## I2C Expansion Headers



## I2C EEPROM



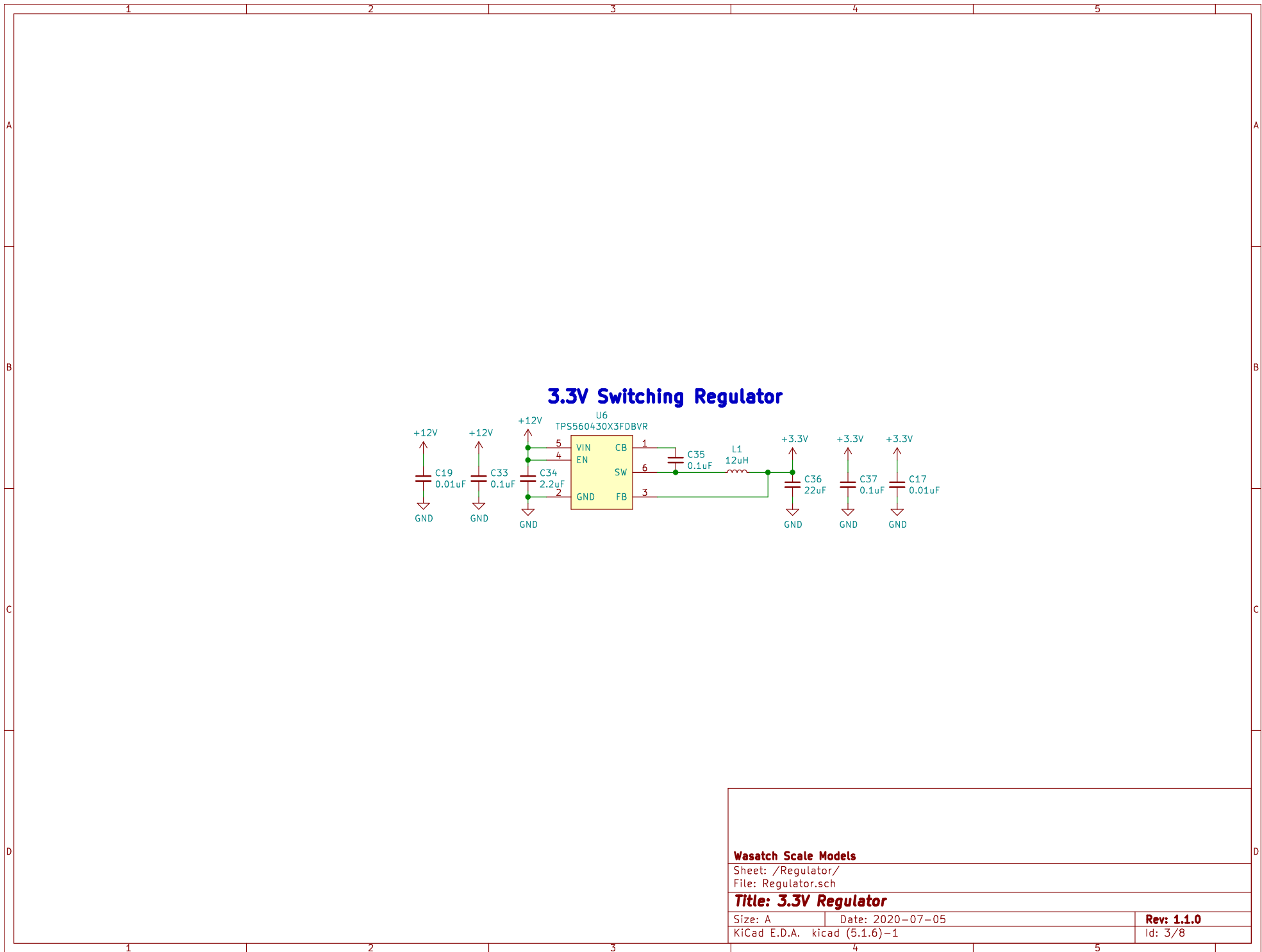
### Wasatch Scale Models

Sheet: /I2C/  
File: I2C.sch

### Title: I2C Devices

Size: A Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.6)-1

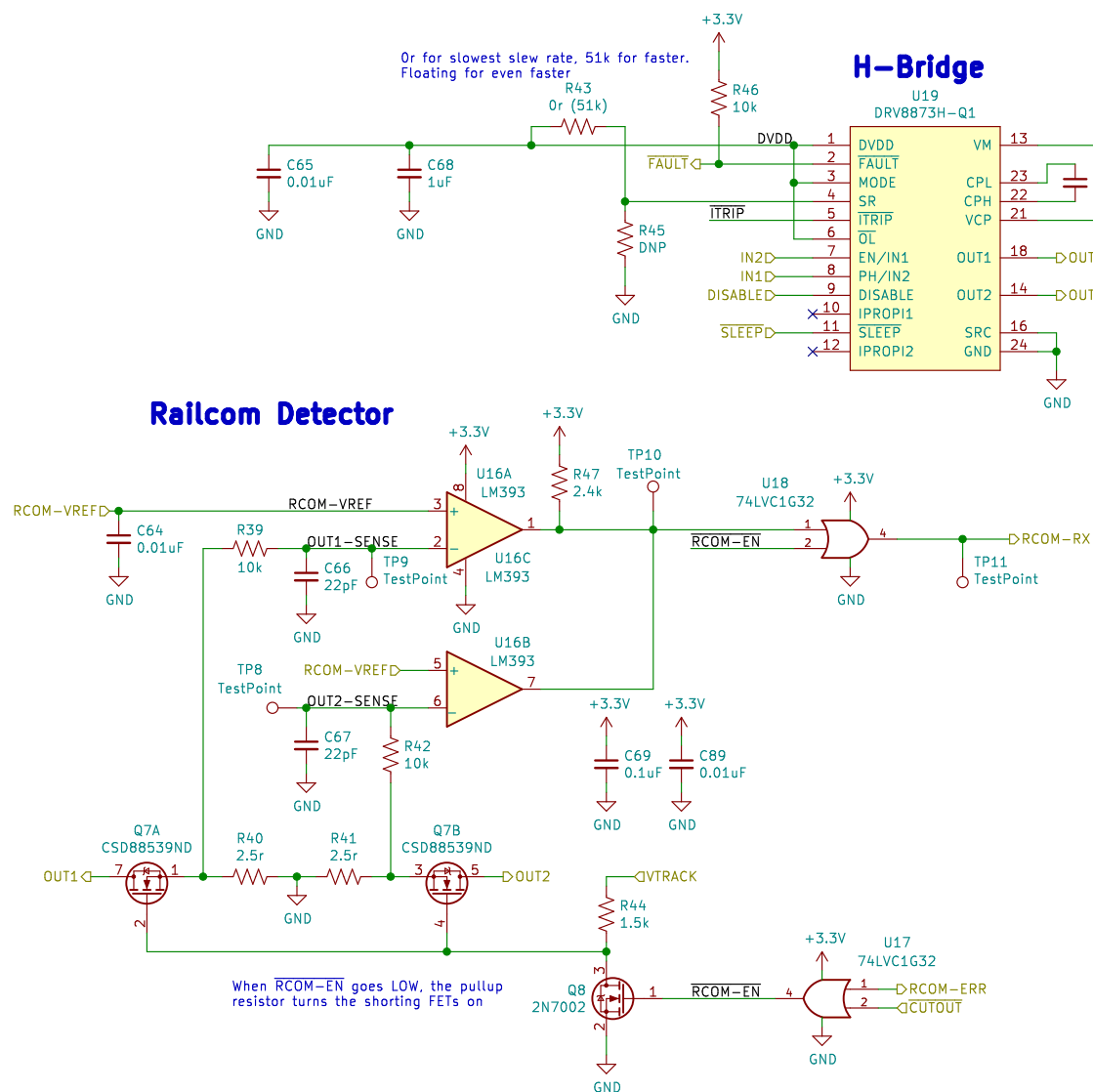
Rev: 1.1.0  
Id: 2/8





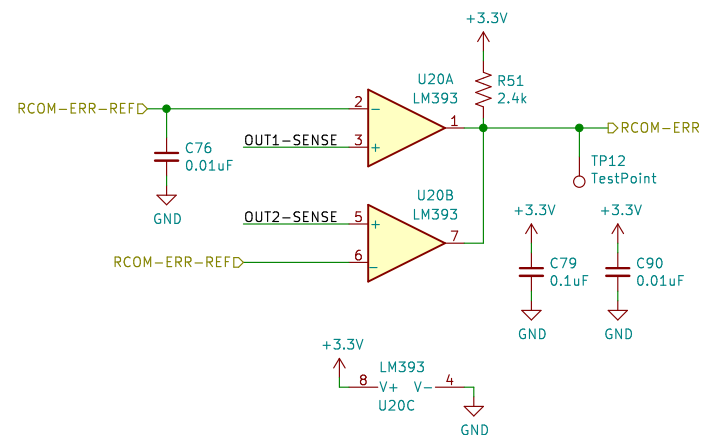


## Railcom Detector



## Railcom Overcurrent Detection

RCOM-ERR will go HIGH when the current across either 2.5 ohm railcom resistor goes above 0.2316 amps



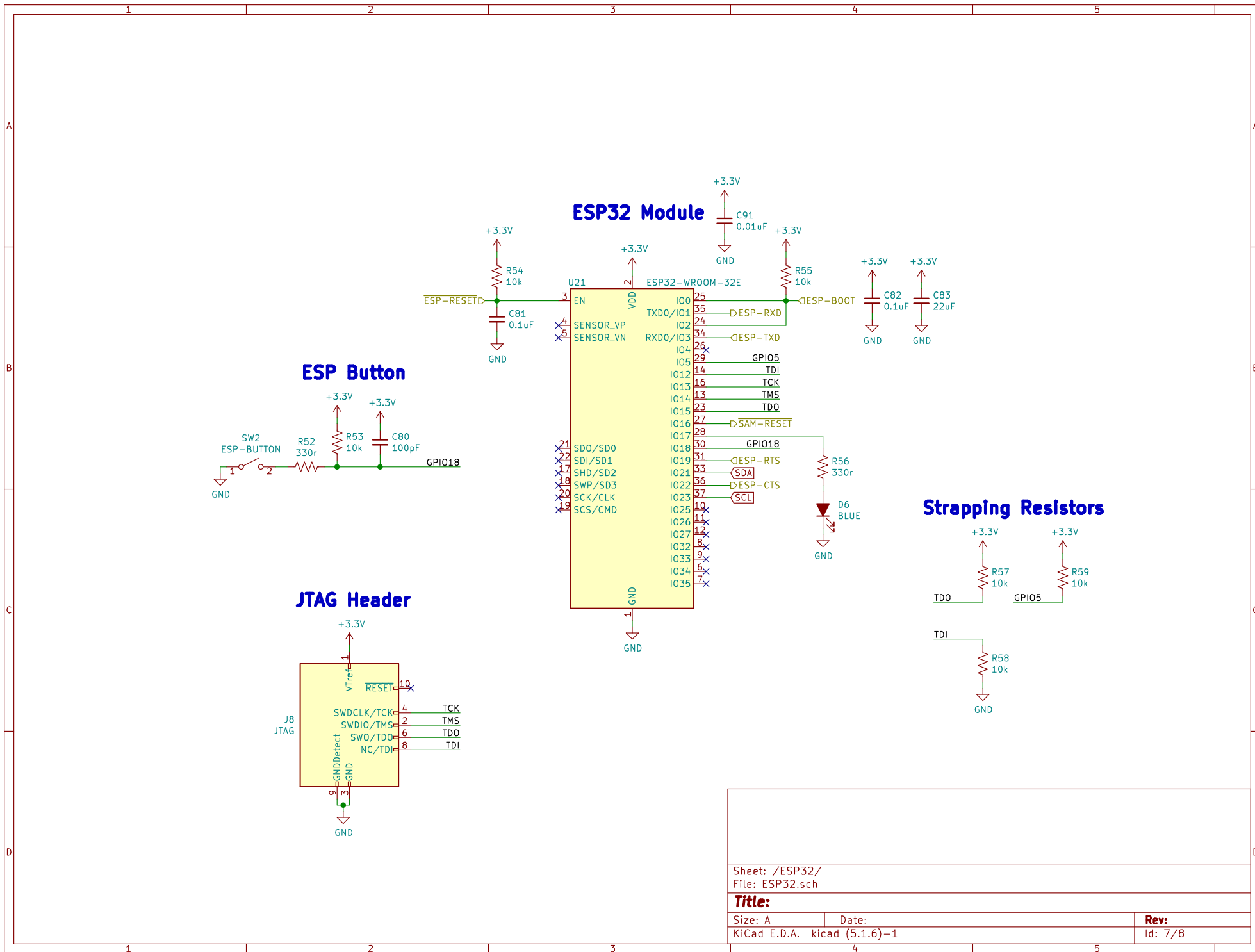
### Wasatch Scale Models

Sheet: /Tracks/Main/  
File: Track-Output.sch

### Title: H-Bridge

Size: A Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.6)-1

Rev: 1.1.0  
Id: 6/8



Sheet: /ESP32/  
File: ESP32.sch

**Title:**

Size: A

Date:

KiCad E.D.A. kicad (5.1.6)-1

**Rev:**

Id: 7/8

