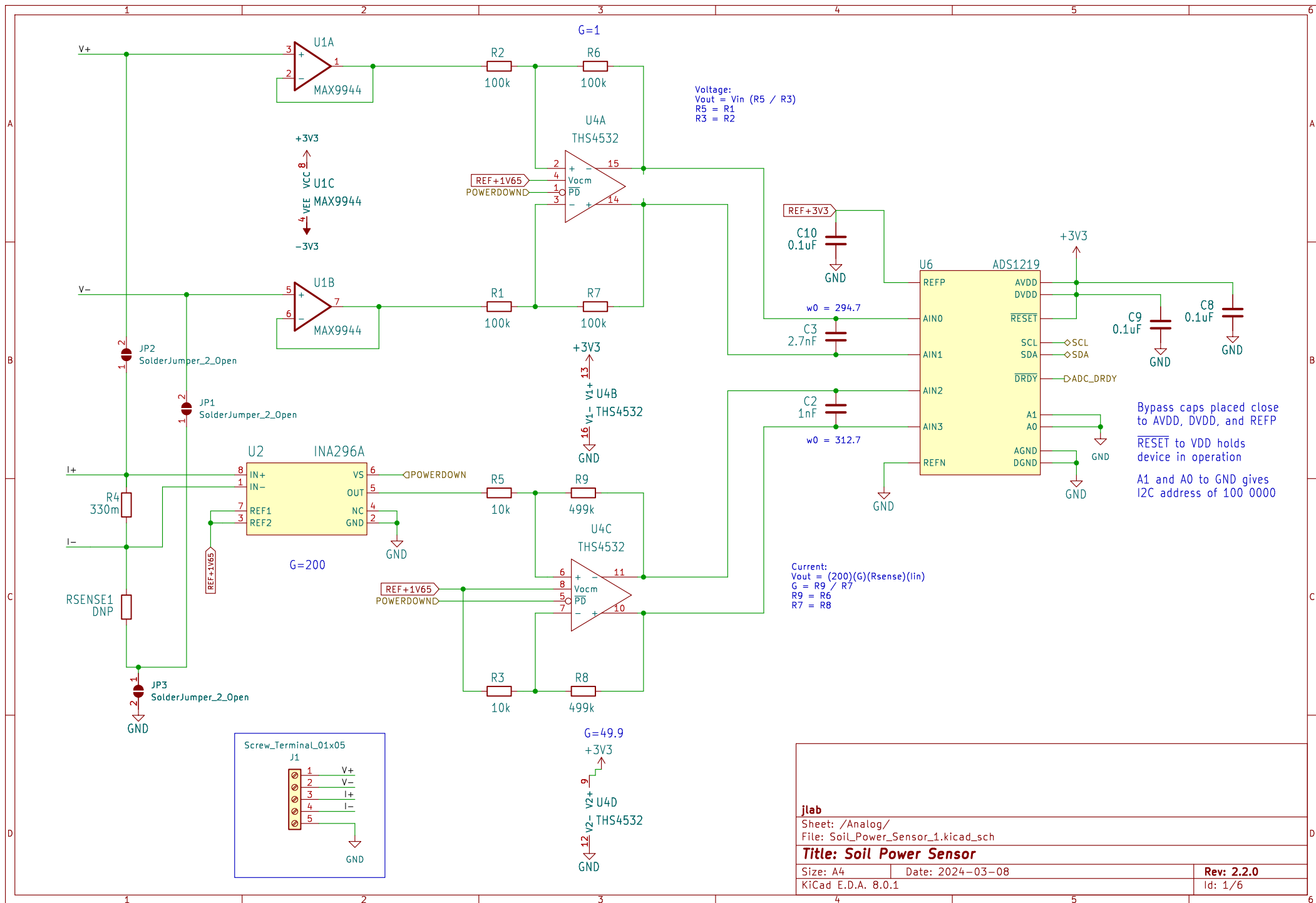


jlab		
Sheet: /		
File: Soil Power Sensor.kicad_sch		
Title: Soil Power Sensor		
Size: A4	Date: 2024-03-08	Rev: 2.2.0
KiCad E.D.A. 8.0.1		Id: 1/6



jlab

Sheet: /Analog/  
 File: Soil\_Power\_Sensor\_1.kicad\_sch

**Title: Soil Power Sensor**

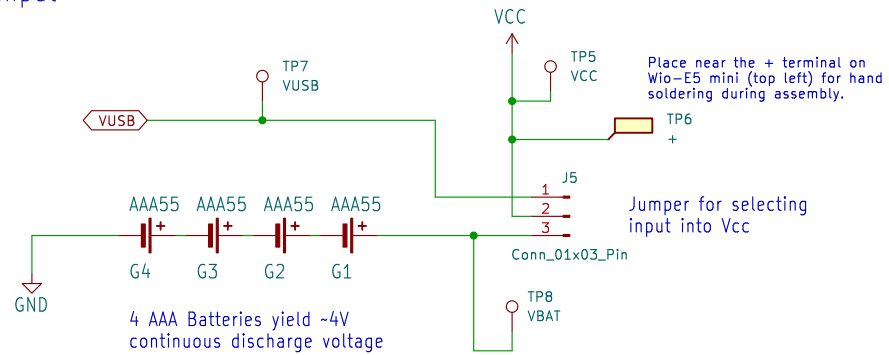
Size: A4 Date: 2024-03-08

KiCad E.D.A. 8.0.1

**Rev: 2.2.0**

Id: 1/6

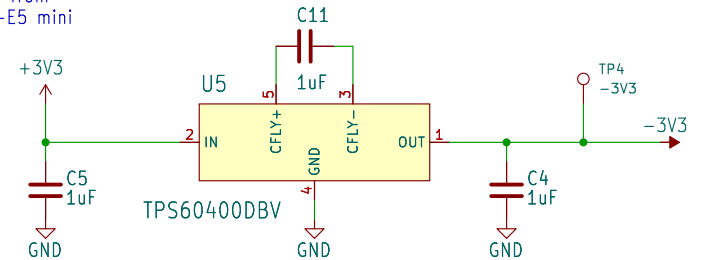
## VCC Input



## Charge Pump for -3V3 Rail

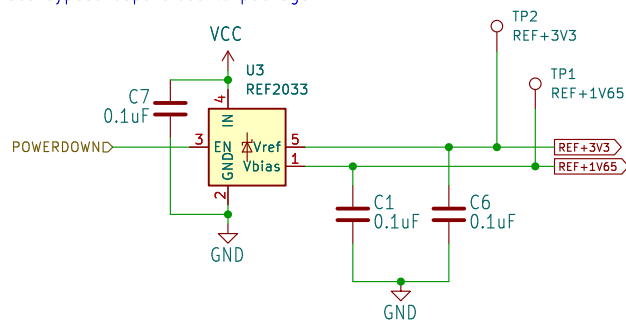
Place bypass caps close to package

+3V3 comes from LDO on Wio-E5 mini



## Reference +3V3 and +1V65

Place bypass caps close to package



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Sheet: /Power/

File: Soil\_Power\_Sensor\_2.kicad\_sch

**Title: Soil Power Sensor**

Size: A4

Date: 2024-03-08

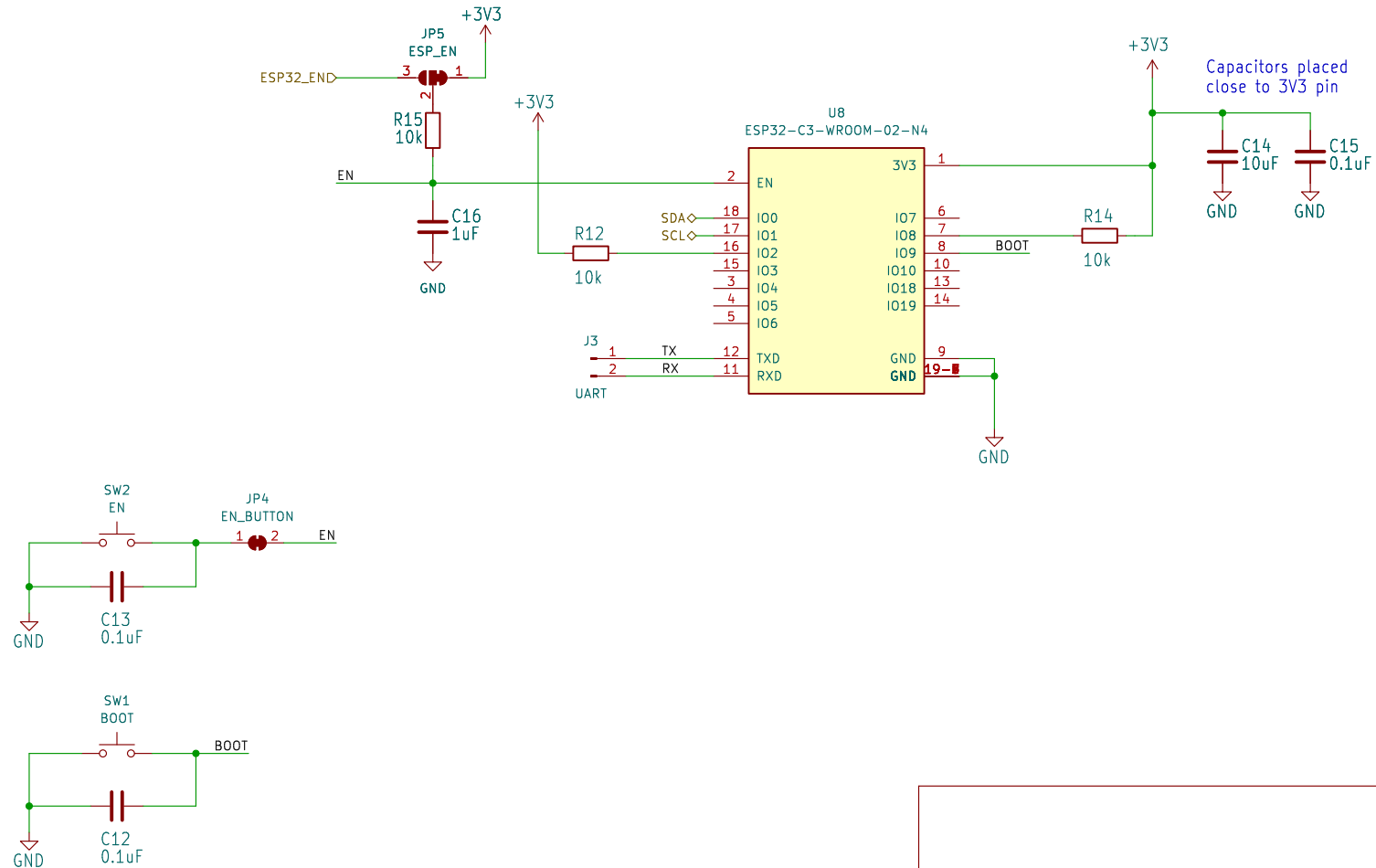
Rev: 2.2.0

KiCad E.D.A. 8.0.1

Id: 2/6



RC Filter for added delay  
(values from ESP32 DS)



jlab

Sheet: /ESP32/

File: Soil\_Power\_Sensor\_4.kicad\_sch

**Title: Soil Power Sensor**

Size: A4

Date: 2024-03-08

Rev: 2.2.0

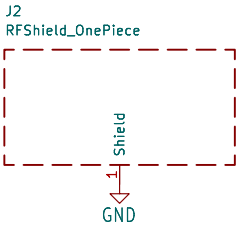
KiCad E.D.A. 8.0.1

Id: 4/6

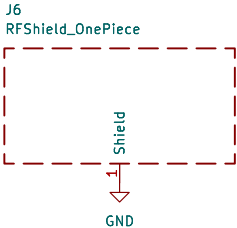
# RF Shield

Covers analog components in sheet 1 and reference voltage source.

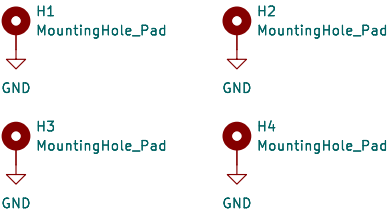
Frame placed  
on PCB



Cover not placed



# Mounting Holes



jlab		
Sheet: /Hardware/ File: hardware.kicad_sch		
Title: Soil Power Sensor		
Size: A4	Date: 2024-03-08	Rev: 2.2.0
KiCad E.D.A. 8.0.1		Id: 5/6