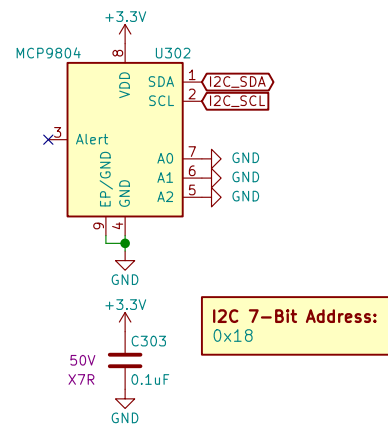
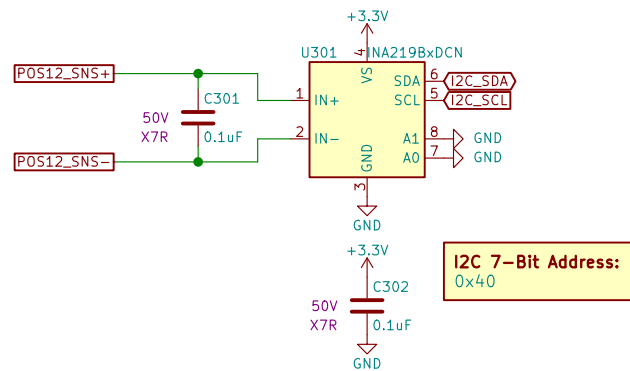


	1	2	3	4	5		
A		Sheet: +12V Input File: POS12_Input.sch Sheet: +12V Telemetry File: POS12_Telemetry.sch Sheet: +3.3V Power Supply File: POS3P3_Power_Supply.sch Sheet: +3.3V Telemetry File: POS3P3_Telemetry.sch Sheet: +1.8V Power Supply File: POS1P8_Power_Supply.sch Sheet: +1.8V Telemetry File: POS1P8_Telemetry.sch Sheet: PIC32MZ Programming File: PIC32MZ_Programming.sch Sheet: PIC32MZ Bypass File: PIC32MZ_Bypass.sch Sheet: PIC32MZ Clocking File: PIC32MZ_Clocking.sch Sheet: PIC32MZ File: PIC32MZ.sch Sheet: USB UART Bridge File: USB_UART_Bridge.sch Sheet: USB Telemetry File: USB_Telemetry.sch Sheet: Time of Flight File: Time_of_Flight.sch Sheet: POX Sensor File: POX_Sensor.sch Sheet: Display File: Display.sch Sheet: Pushbuttons File: Pushbuttons.sch		Sheet: PG00D LEDs File: PG00D_LEDs.sch Sheet: Status LEDs File: Status_LEDs.sch Sheet: Misc Circuits File: Misc_Circuits.sch Sheet: Mechanical File: Mechanical.sch			A
B						B	
C						C	
D					<div>Drew Maatman Sheet: / File: Pulse_Oximeter.sch <b>Title: Pulse Oximeter</b> Size: A      Date: 2019-01-03      Rev: A KiCad E.D.A.   kicad (5.1.4)-1      Id: 1/21</div>	D	
	1	2	3	4	5		

Rev: A  
Id: 2/21



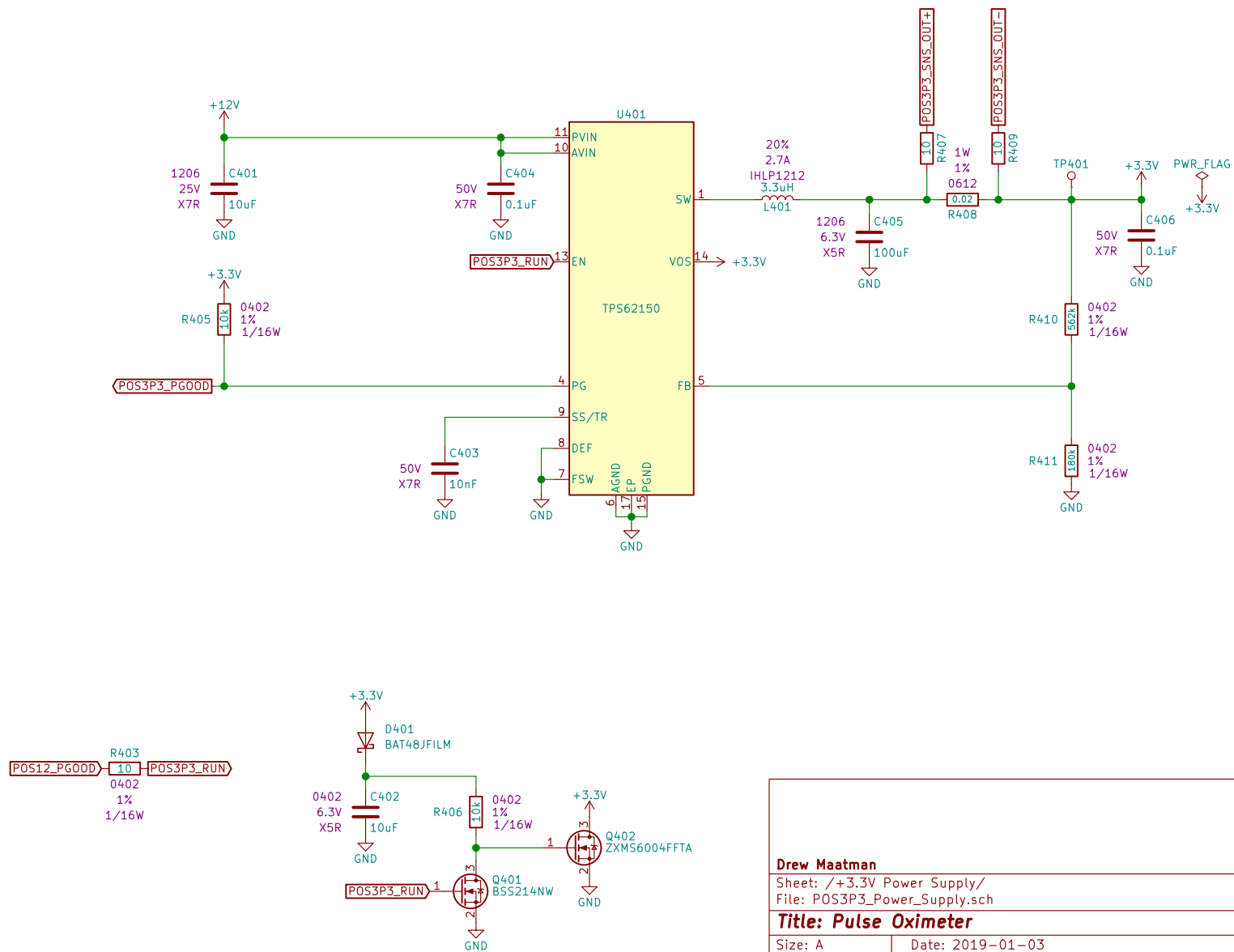
Drew Maatman

Sheet: /+12V Telemetry/  
File: POS12\_Telemetry.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 3/21



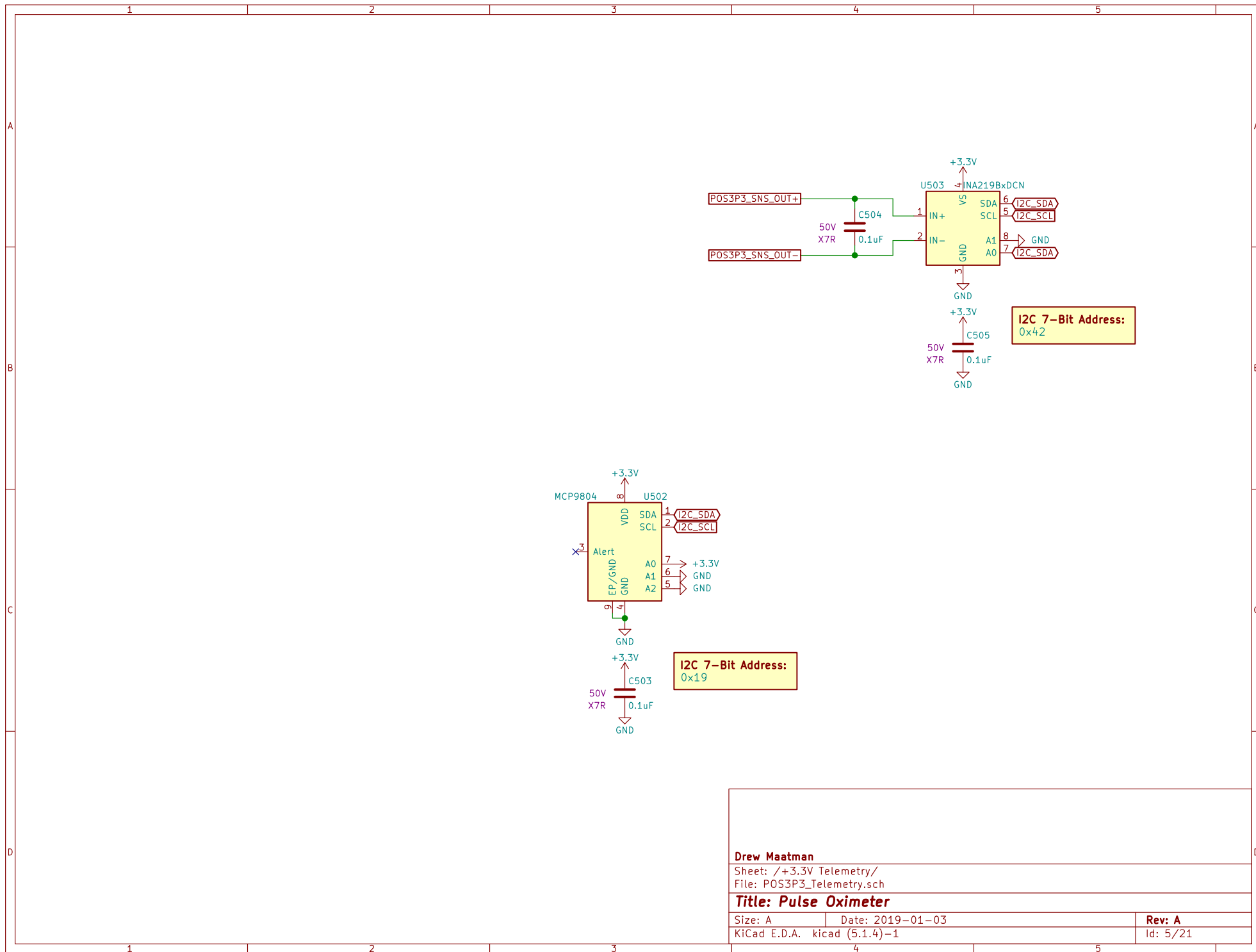
Drew Maatman

Sheet: /+3.3V Power Supply/  
File: POS3P3\_Power\_Supply.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 4/21



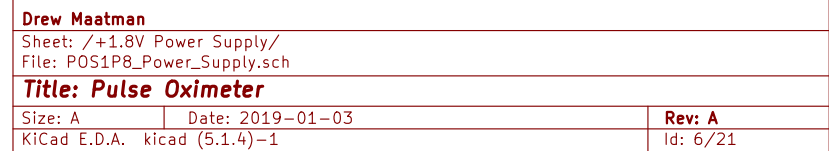
Drew Maatman

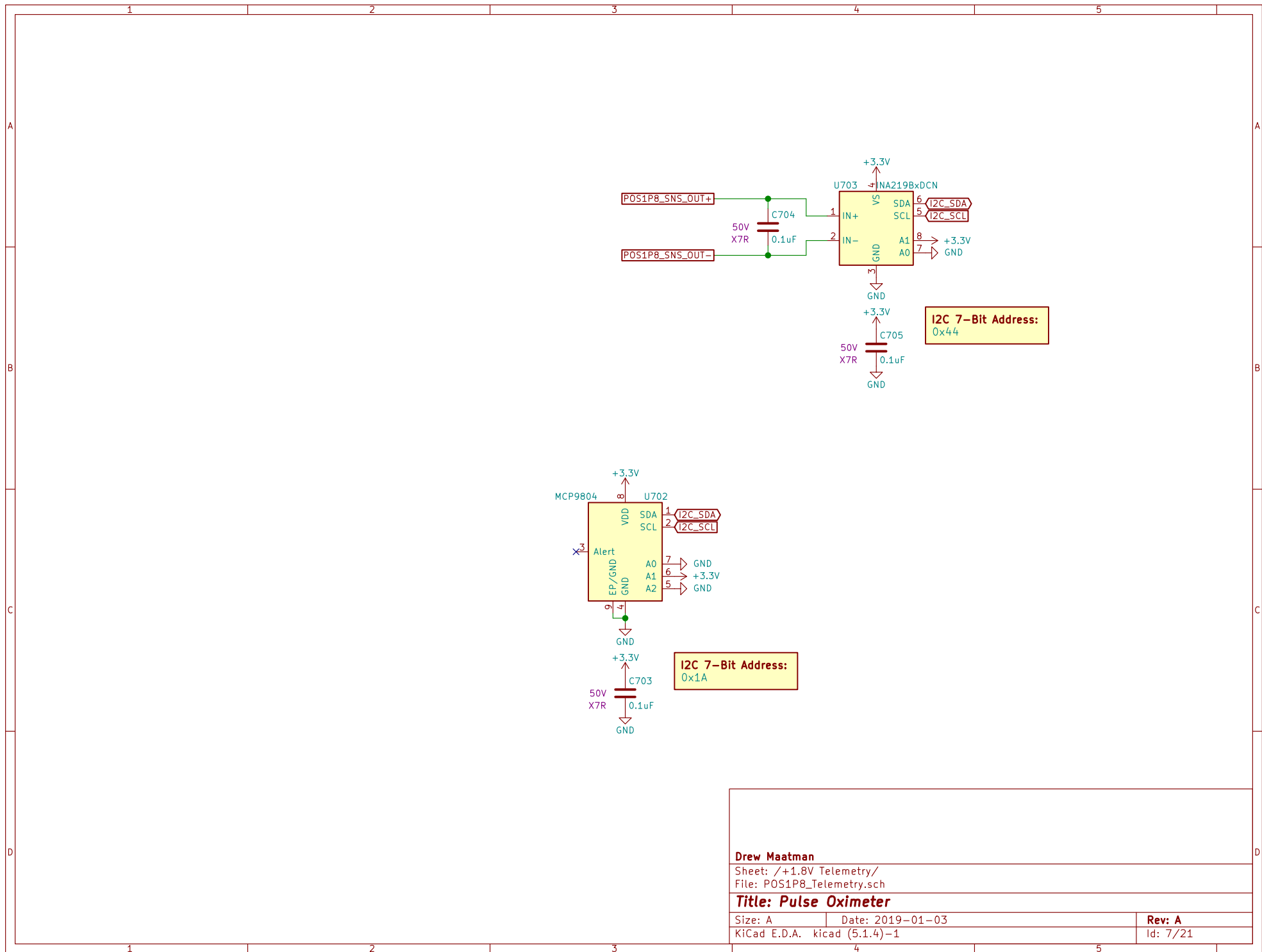
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File: POS3P3\_Telemetry.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 5/21





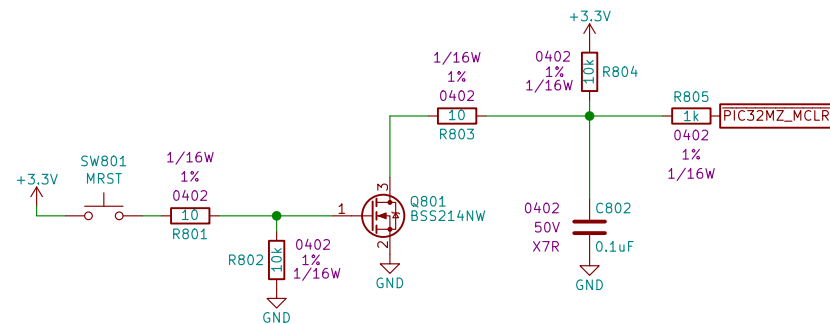
Drew Maatman

Sheet: /+1.8V Telemetry/  
File: POS1P8\_Telemetry.sch

**Title: Pulse Oximeter**

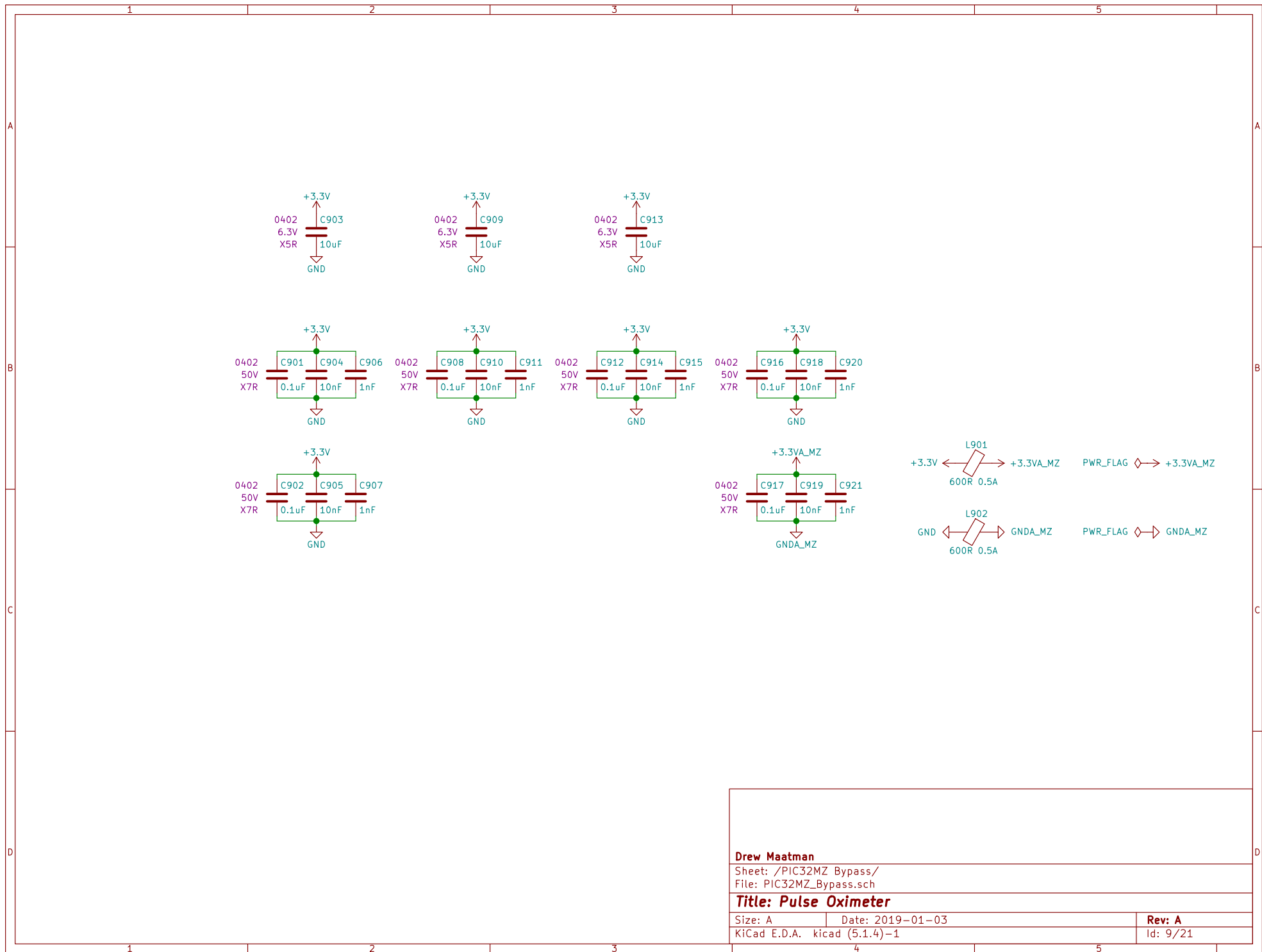
Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 7/21



Rev: A  
Id: 8/21





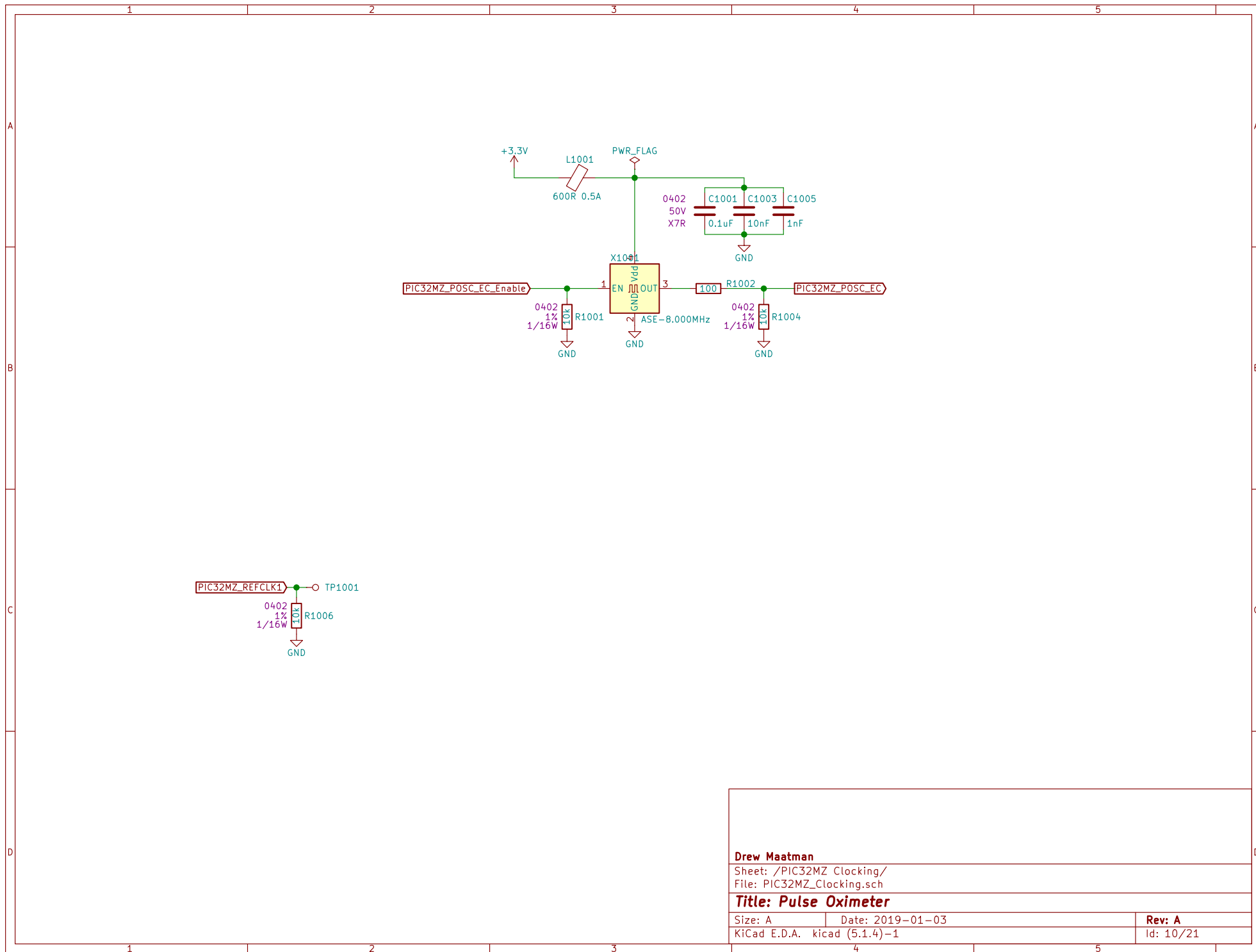
Drew Maatman

Sheet: /PIC32MZ Bypass/  
File: PIC32MZ\_Bypass.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 9/21



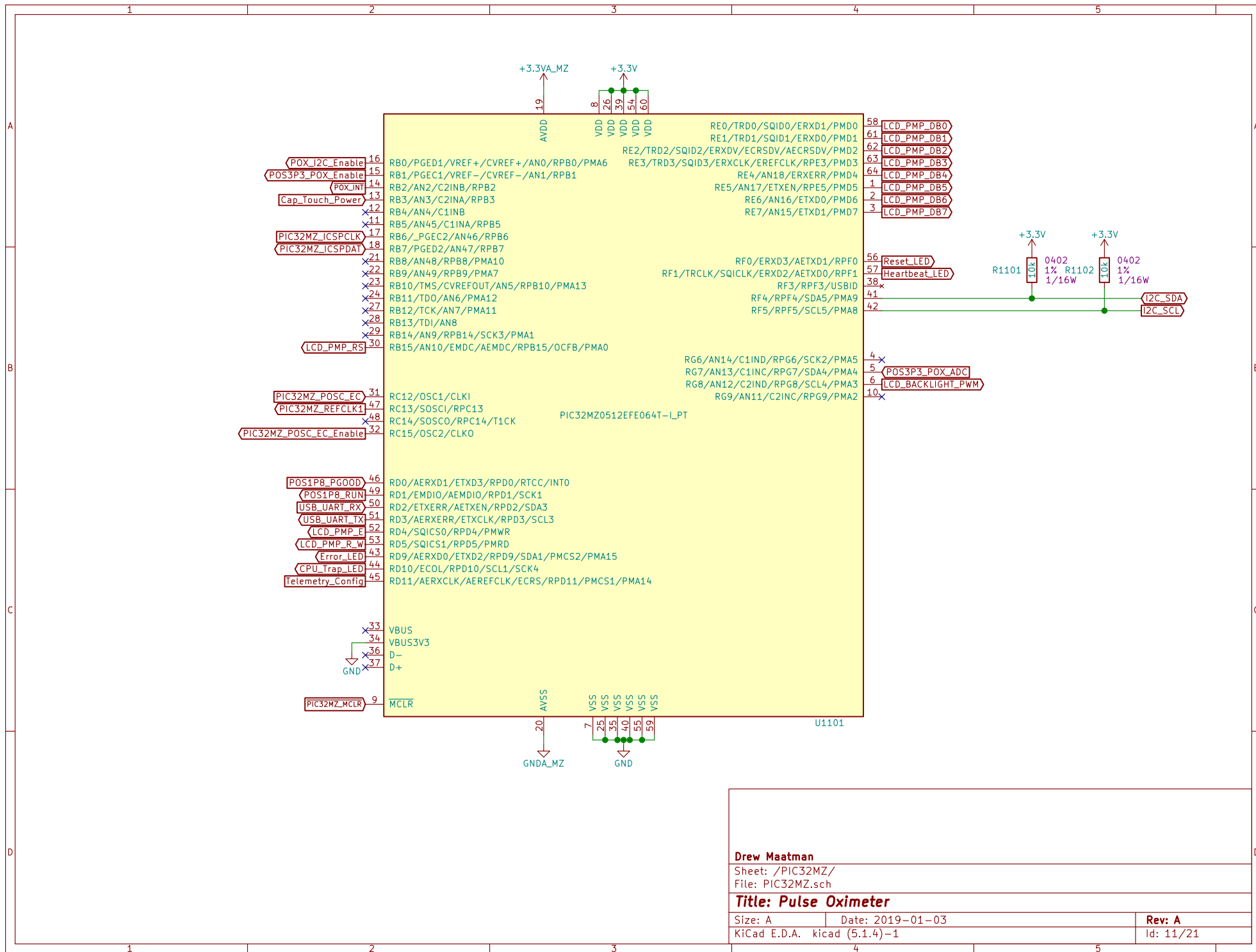
Drew Maatman

Sheet: /PIC32MZ Clocking/  
File: PIC32MZ\_Clocking.sch

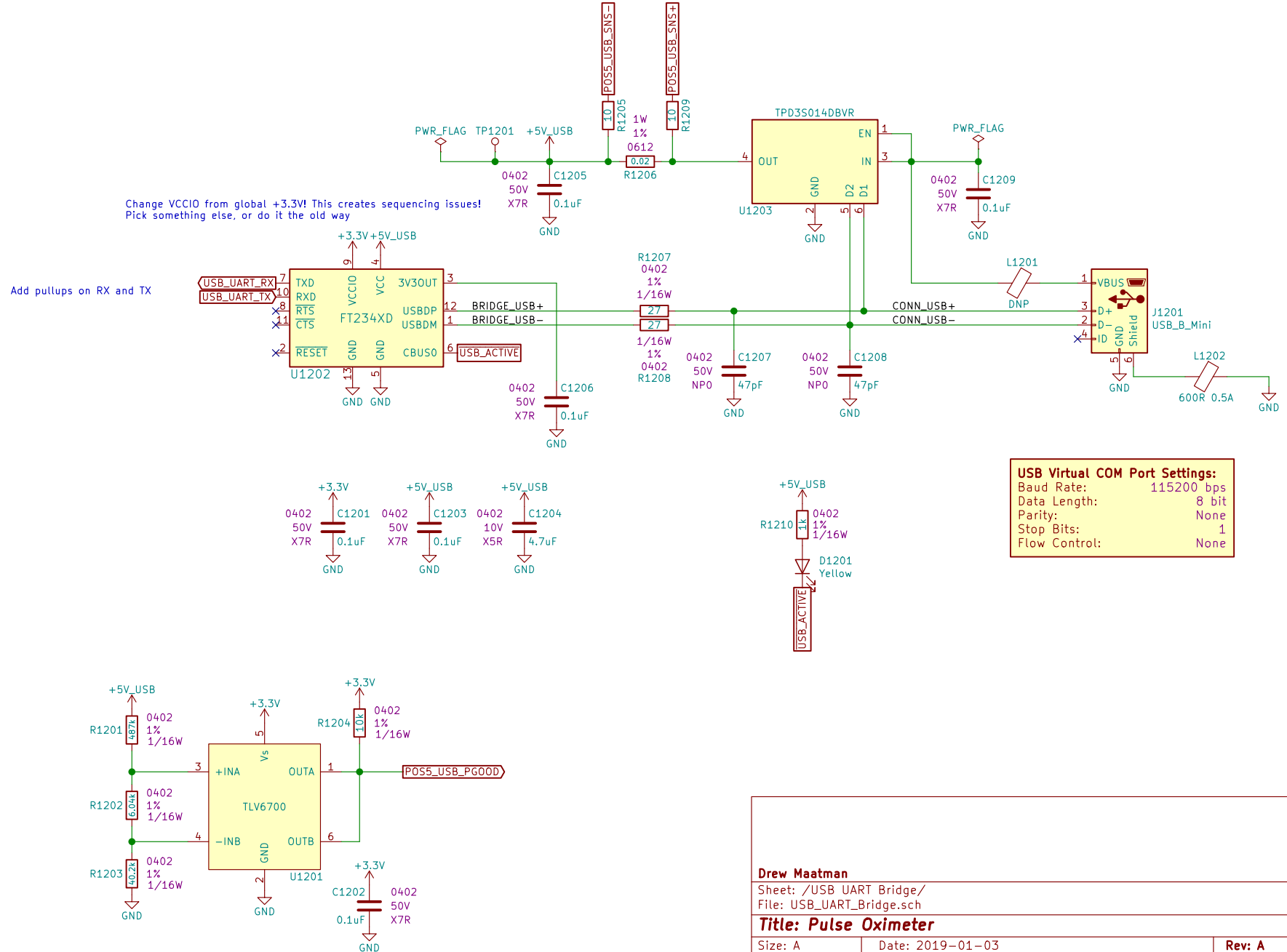
**Title: Pulse Oximeter**

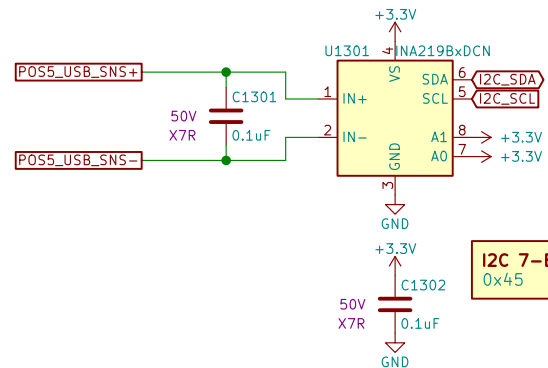
Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 10/21

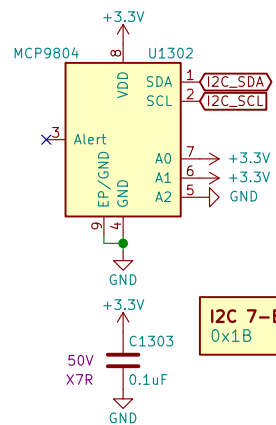


ECO: Run a modwire from +3.3V to +5V\_USB somewhere, and ensure L1201 is non-popped





**I2C 7-Bit Address:**  
0x45



**I2C 7-Bit Address:**  
0x1B

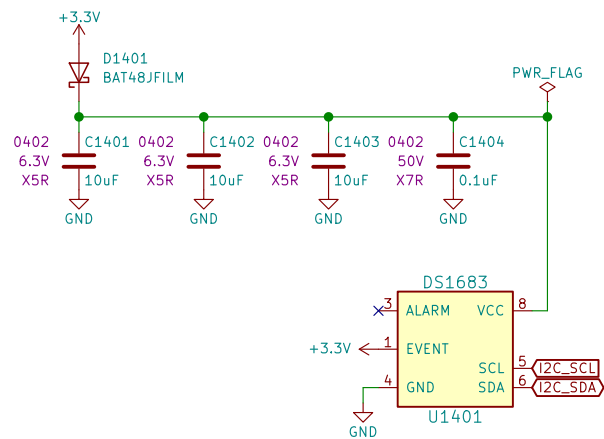
**Drew Maatman**

Sheet: /USB Telemetry/  
File: USB\_Telemetry.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**  
Id: 13/21



**I2C 7-Bit Address:**  
0x6B

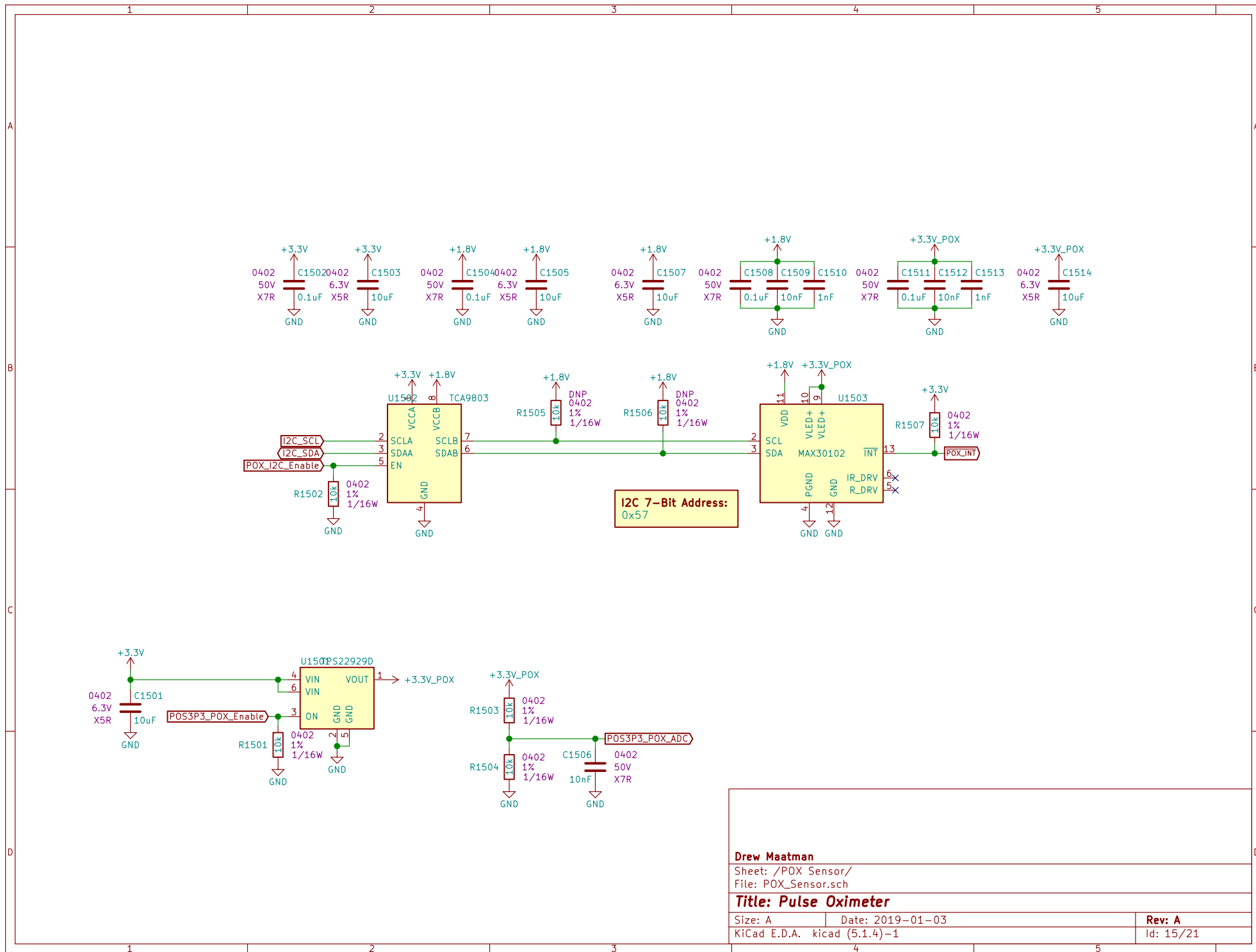
**Drew Maatman**

Sheet: /Time of Flight/  
File: Time\_of\_Flight.sch

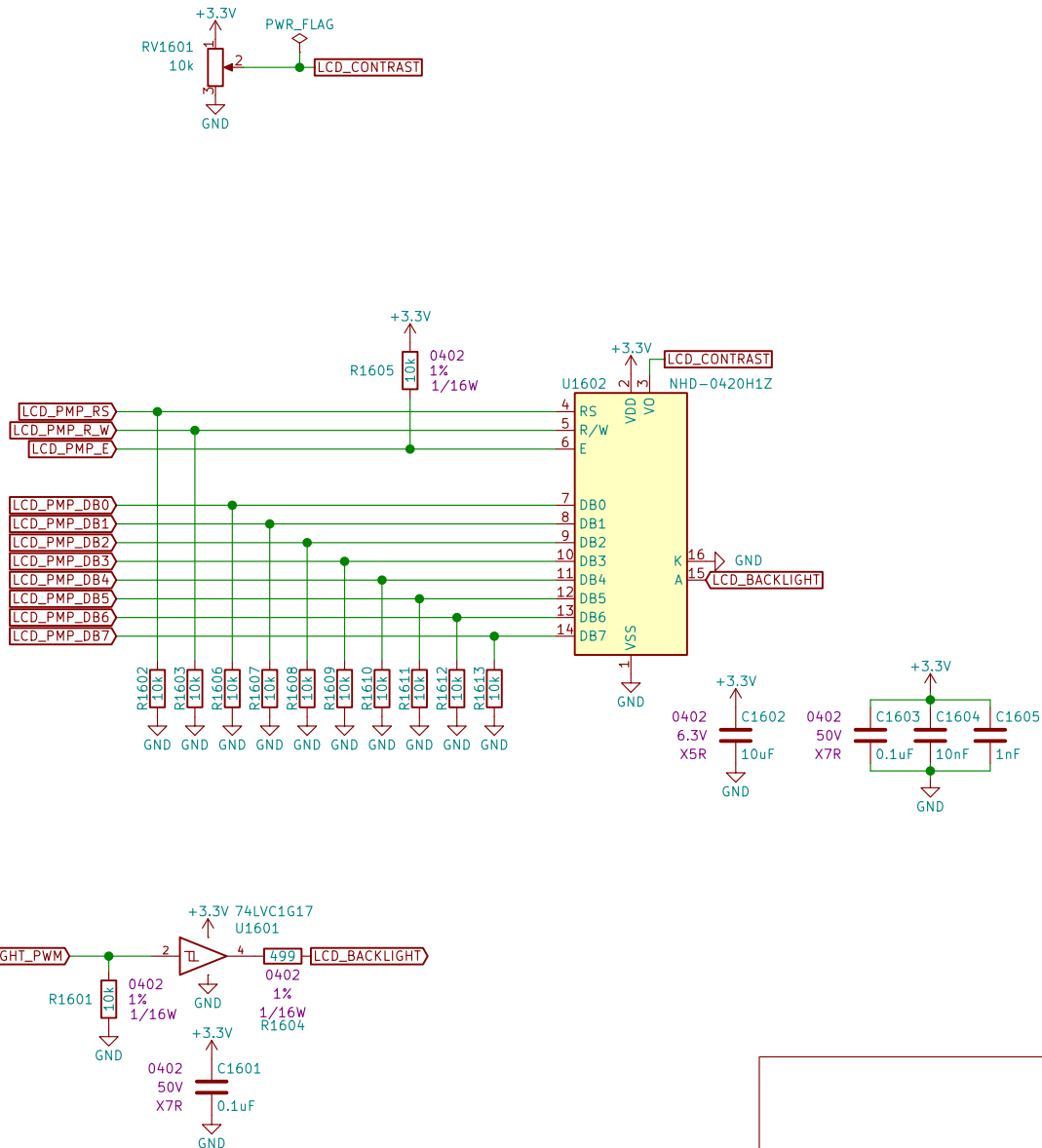
**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**  
Id: 14/21

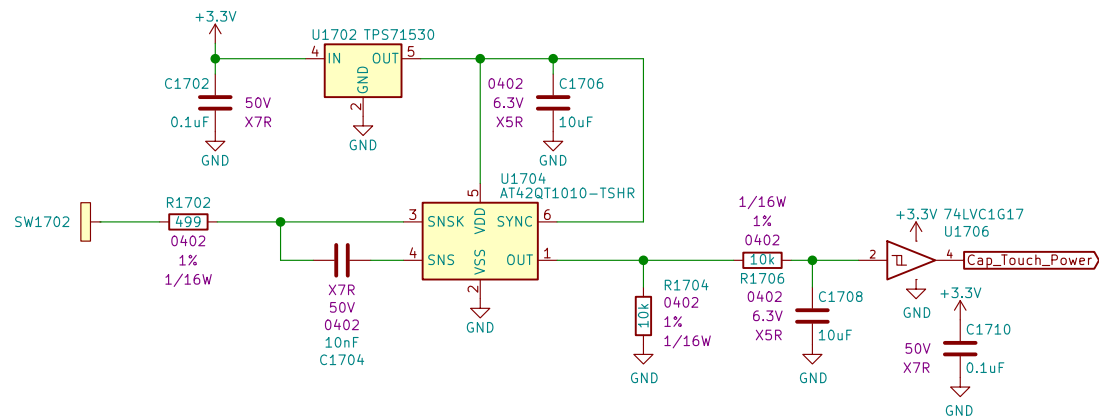


<b>Drew Maatman</b>	
Sheet: /POX Sensor/ File: POX_Sensor.sch	
<b>Title: Pulse Oximeter</b>	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.1.4)-1	Rev: A
Id: 15/21	



<b>Drew Maatman</b>		
Sheet: /Display/ File: Display.sch		
<b>Title: Pulse Oximeter</b>		
Size: A	Date: 2019-01-03	Rev: A
KiCad E.D.A. kicad (5.1.4)-1		Id: 16/21





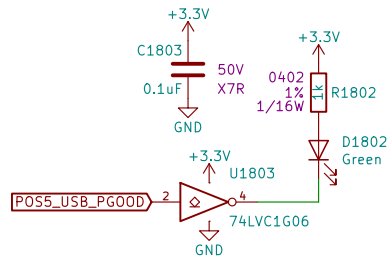
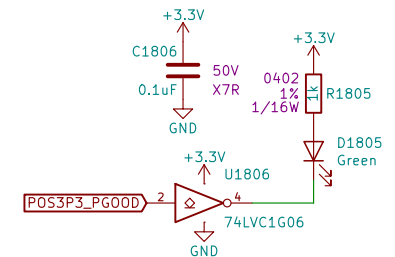
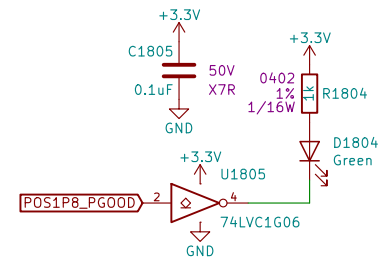
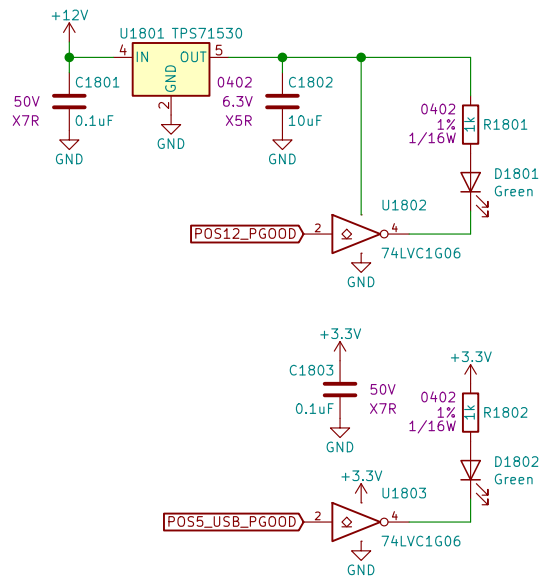
**Drew Maatman**

Sheet: /Pushbuttons/  
File: Pushbuttons.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**  
Id: 17/21



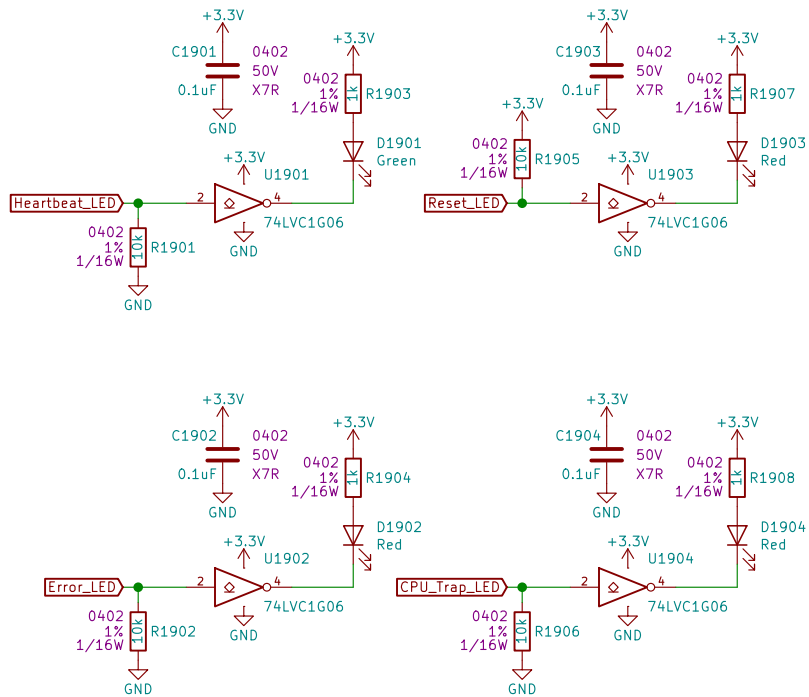
**Drew Maatman**

Sheet: /PGOOD LEDs/  
File: PGOOD\_LEDs.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**  
Id: 18/21



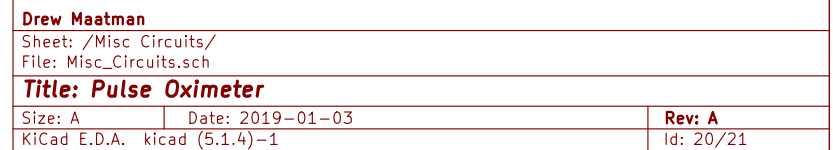
**Drew Maatman**

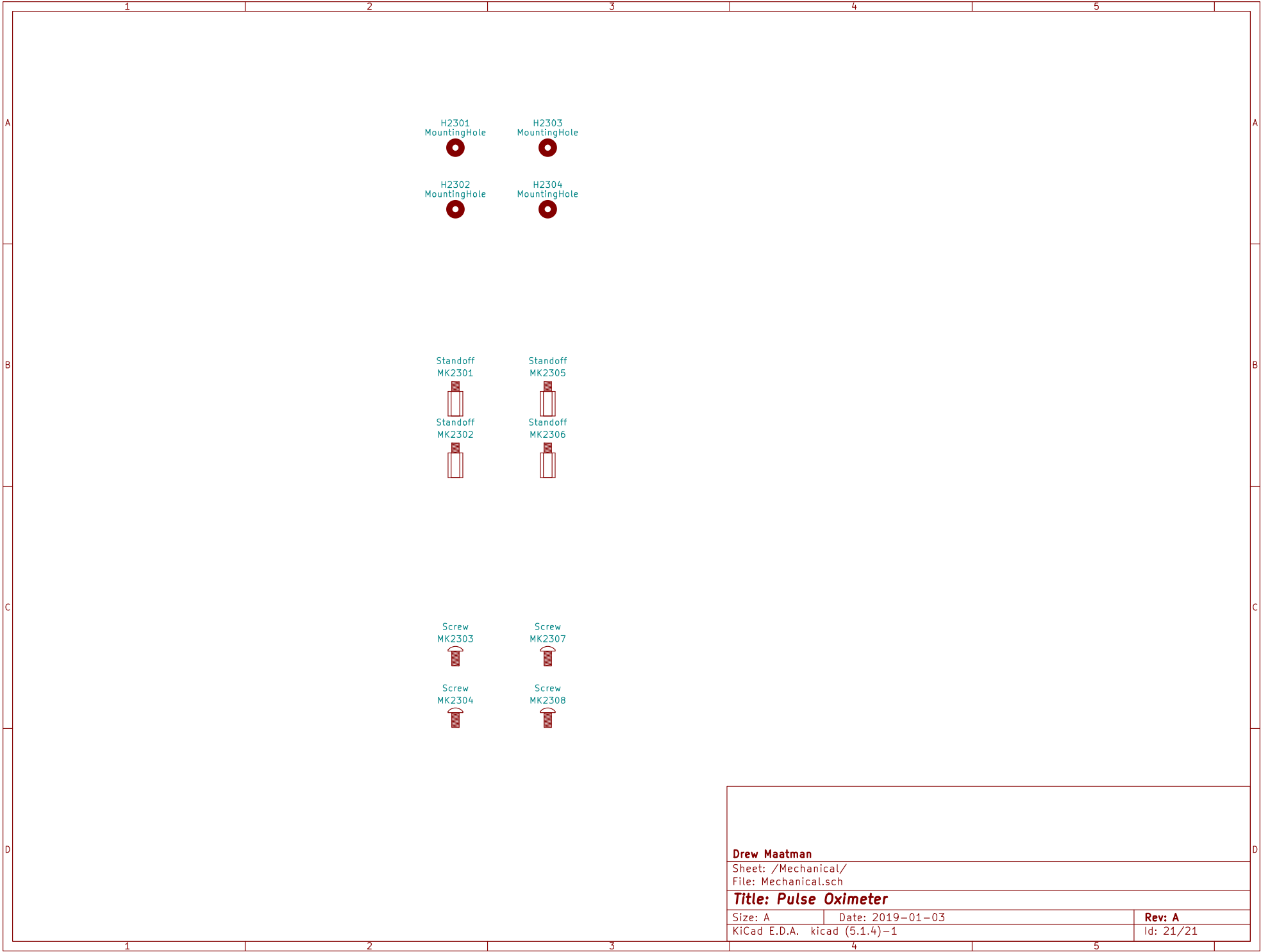
Sheet: /Status LEDs/  
File: Status\_LEDs.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**  
Id: 19/21





Drew Maatman

Sheet: /Mechanical/  
File: Mechanical.sch

**Title: Pulse Oximeter**

Size: A	Date: 2019-01-03	Rev: A
KiCad E.D.A. kicad (5.1.4)-1		Id: 21/21