

	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: Backup RTC File: Backup_RTC.sch Sheet: SD Card Slot File: SD_Card_Slot.sch Sheet: Mechanical File: Mechanical.sch			A
B						B	
C						C	
D						D	
	1	2	3	4	5		

Drew Maatman		
Sheet: / File: Pulse_Oximeter.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	Rev: A
KiCad E.D.A. kicad (5.1.4)-1		Id: 1/23

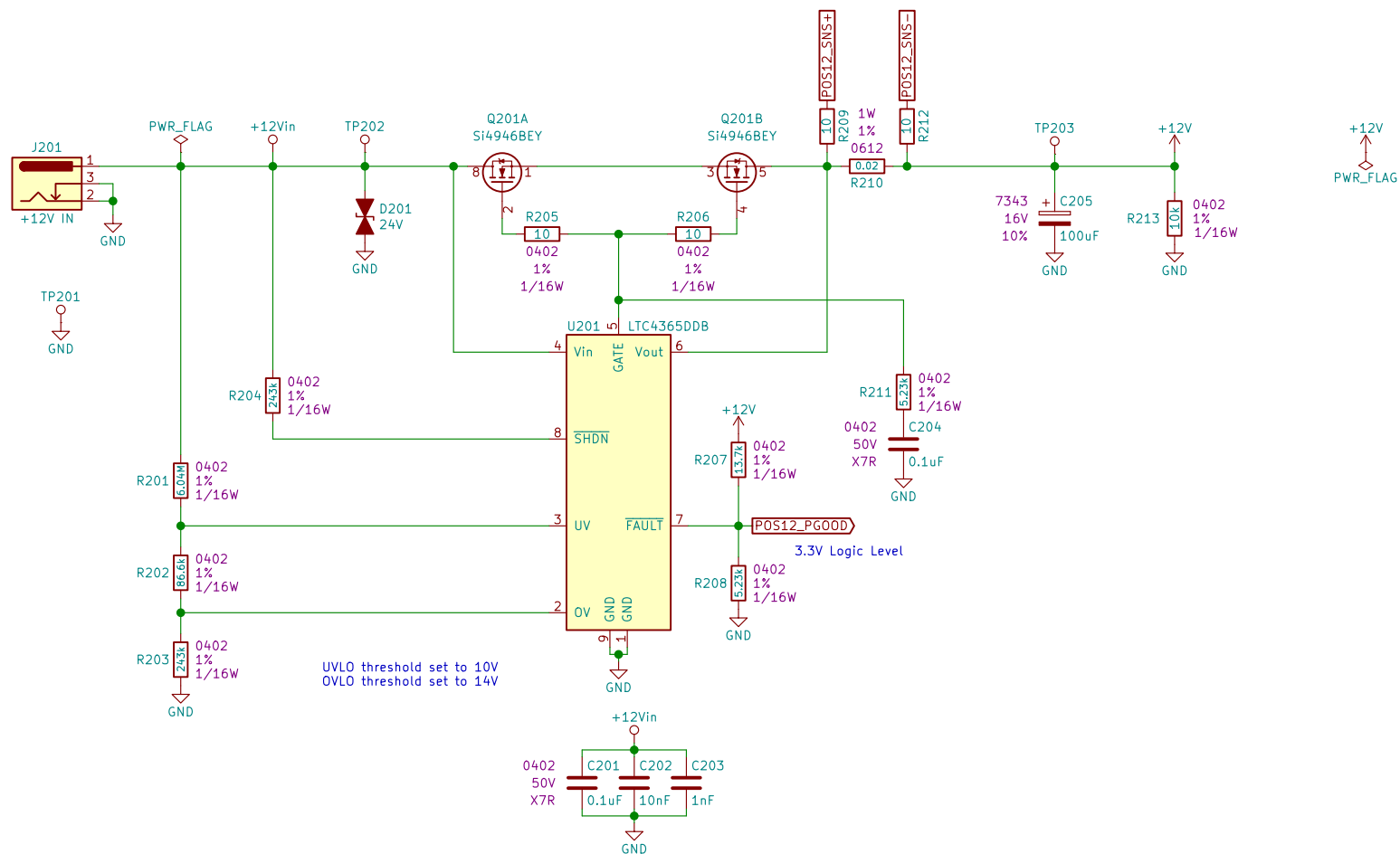
Drew Maatman

Sheet: /
File: Pulse_Oximeter.sch

Title: Pulse Oximeter

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

Rev: A
Id: 1/23



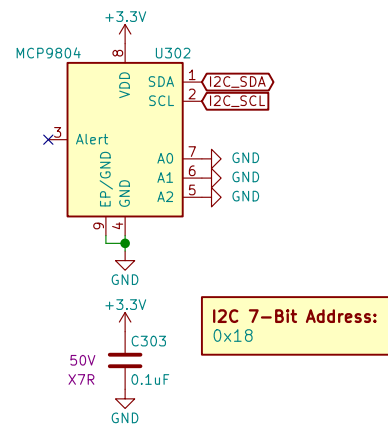
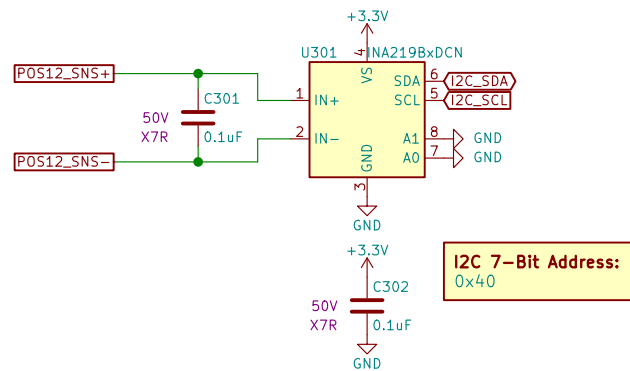
Drew Maatman

Sheet: /+12V Input/
File: POS12_Input.sch

Title: Pulse Oximeter

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

Rev: A
Id: 2/23



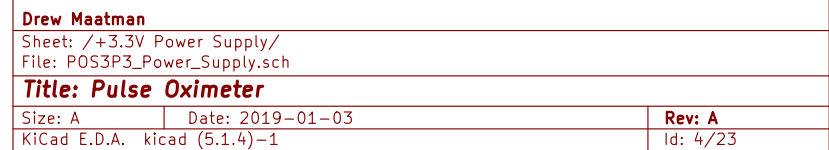
Drew Maatman

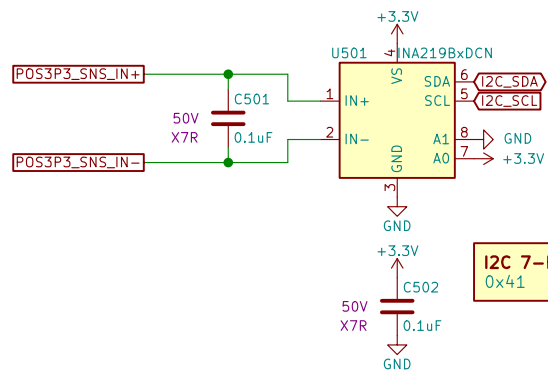
Sheet: /+12V Telemetry/
File: POS12_Telemetry.sch

Title: Pulse Oximeter

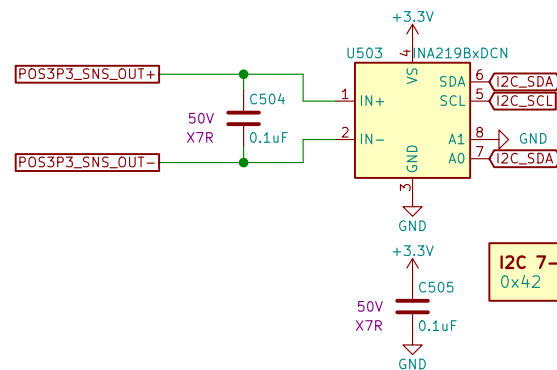
Size: A Date: 2019-01-03
KiCad E.D.A. kicad (5.1.4)-1

Rev: A
Id: 3/23

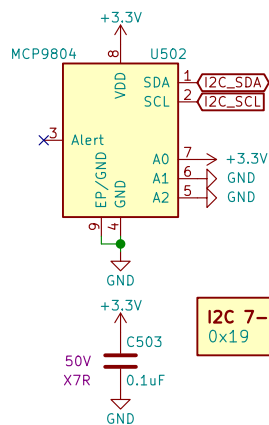




I2C 7-Bit Address:
0x41



I2C 7-Bit Address:
0x42



I2C 7-Bit Address:
0x19

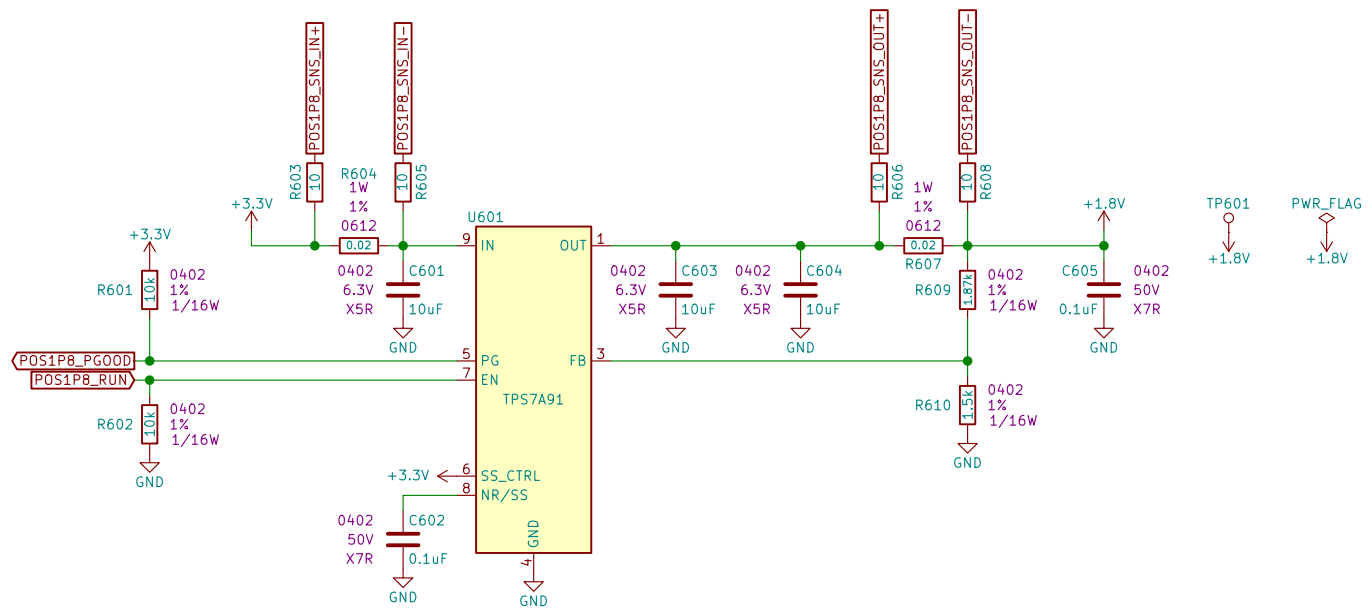
Drew Maatman

Sheet: /+3.3V Telemetry/
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: 5/23



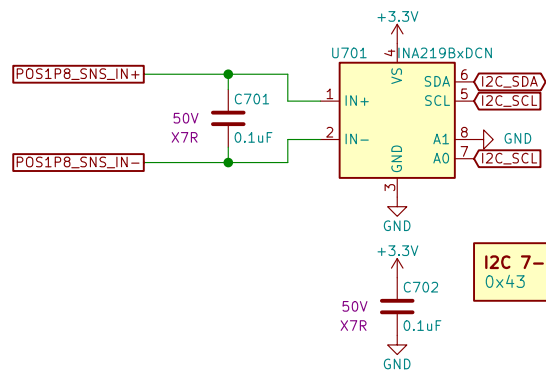
Drew Maatman

Sheet: /+1.8V Power Supply/
File: POS1P8_Power_Supply.sch

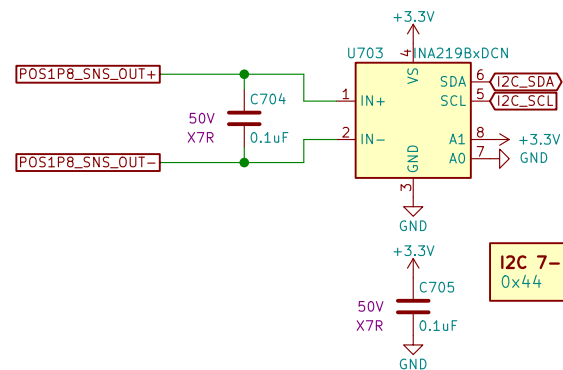
Title: Pulse Oximeter

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

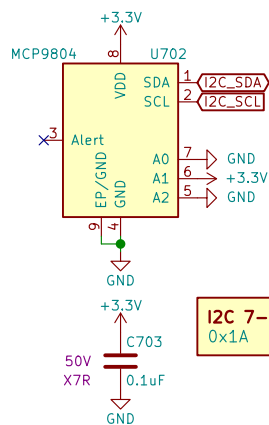
Rev: A
Id: 6/23



I2C 7-Bit Address:
0x43



I2C 7-Bit Address:
0x44



I2C 7-Bit Address:
0x1A

Drew Maatman

Sheet: //+1.8V Telemetry/
File: POS1P8_Telemetry.sch

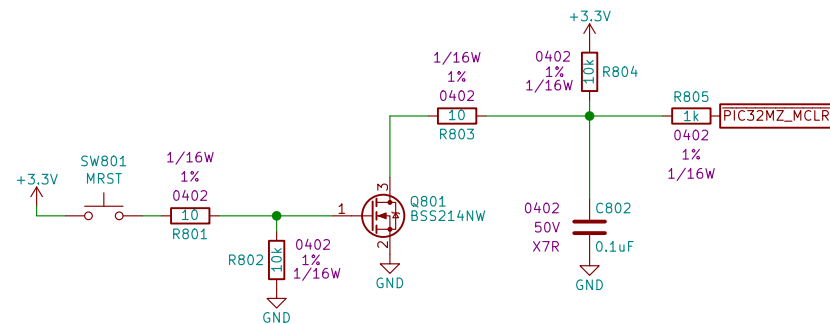
Title: Pulse Oximeter

Size: A Date: 2019-01-03

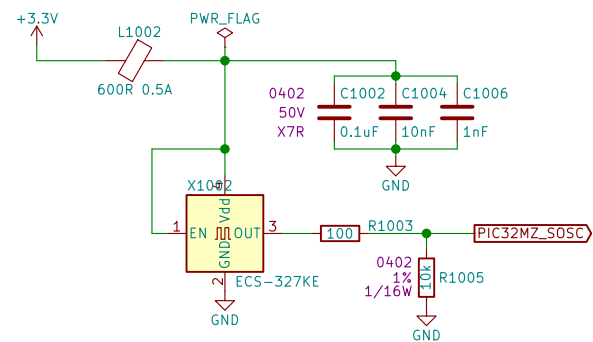
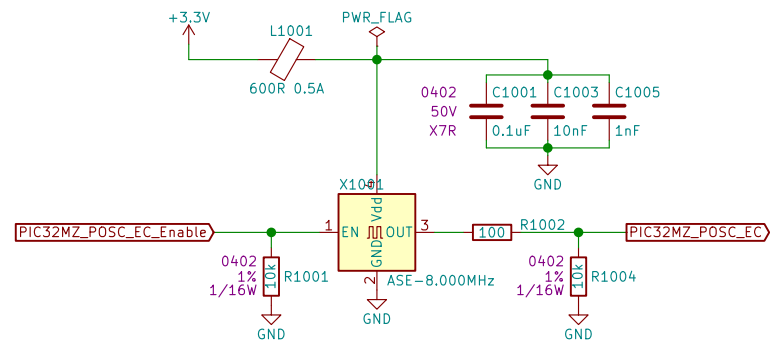
KiCad E.D.A. kicad (5.1.4)-1

Rev: A

Id: 7/23



Rev: A
Id: 8/23



Drew Maatman

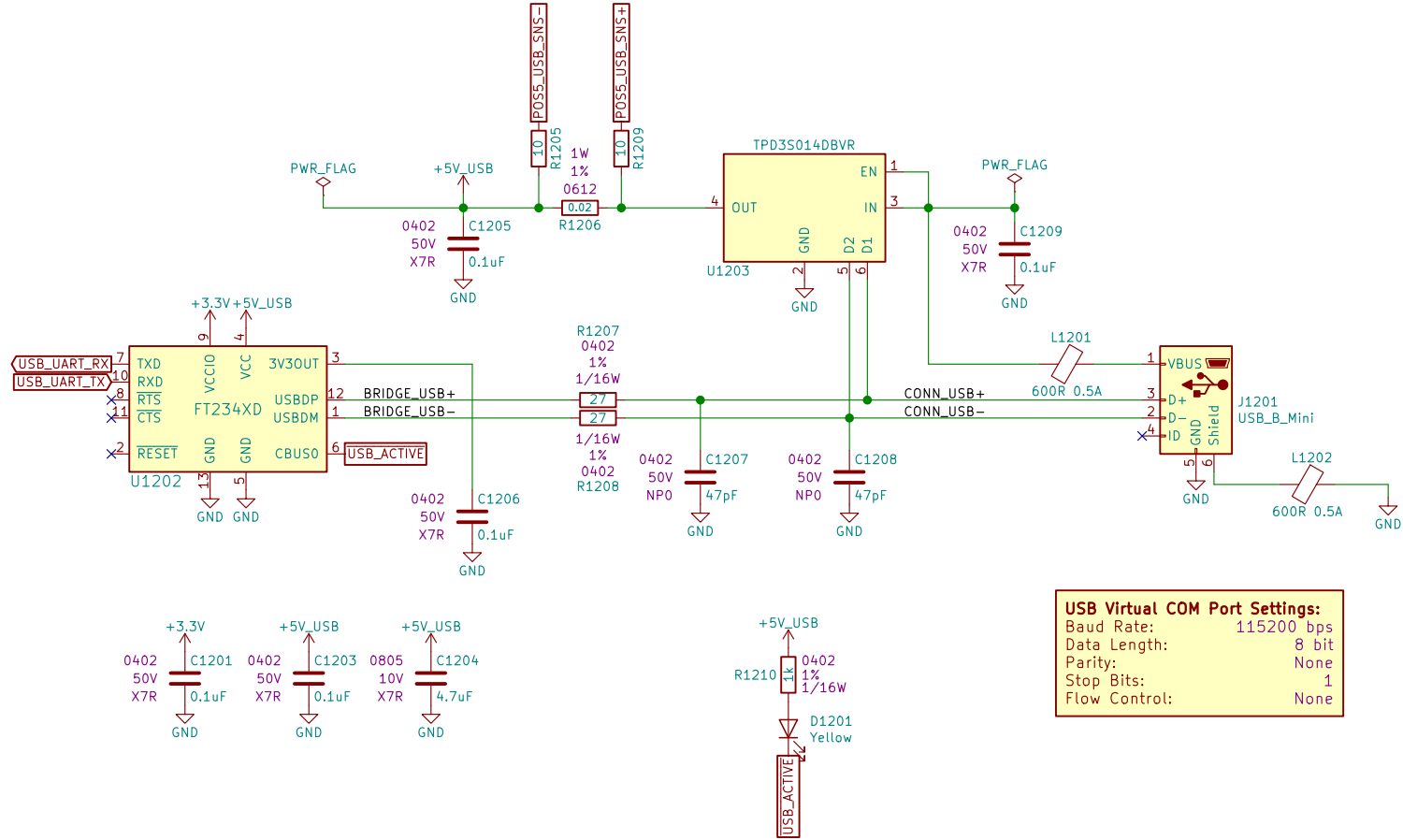
Sheet: /PIC32MZ_Clocking/
File: PIC32MZ_Clocking.sch

Title: Pulse Oximeter

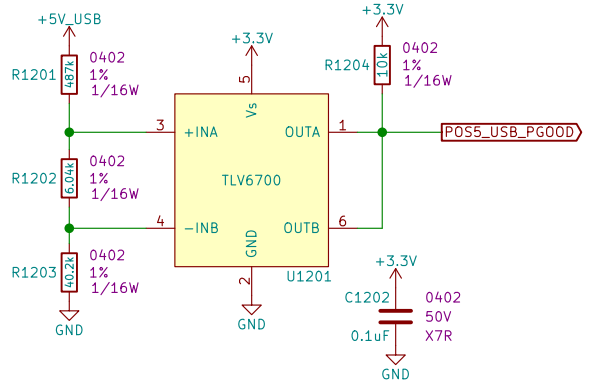
Size: A	Date: 2019-01-03
---------	------------------

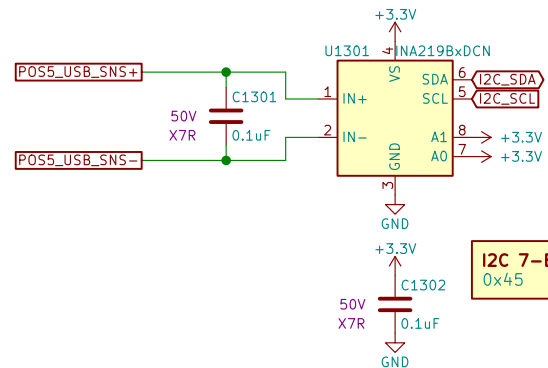
KiCad E.D.A.	kiCad (5.1.4)–1
--------------	-----------------

Rev: A
Id: 10/23

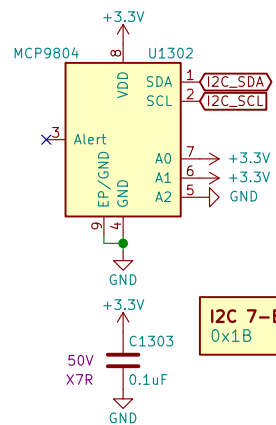


USB Virtual COM Port Settings:
Baud Rate: 115200 bps
Data Length: 8 bit
Parity: None
Stop Bits: 1
Flow Control: None





I2C 7-Bit Address:
0x45



I2C 7-Bit Address:
0x1B

Drew Maatman

Sheet: /USB Telemetry/
File: USB_Telemetry.sch

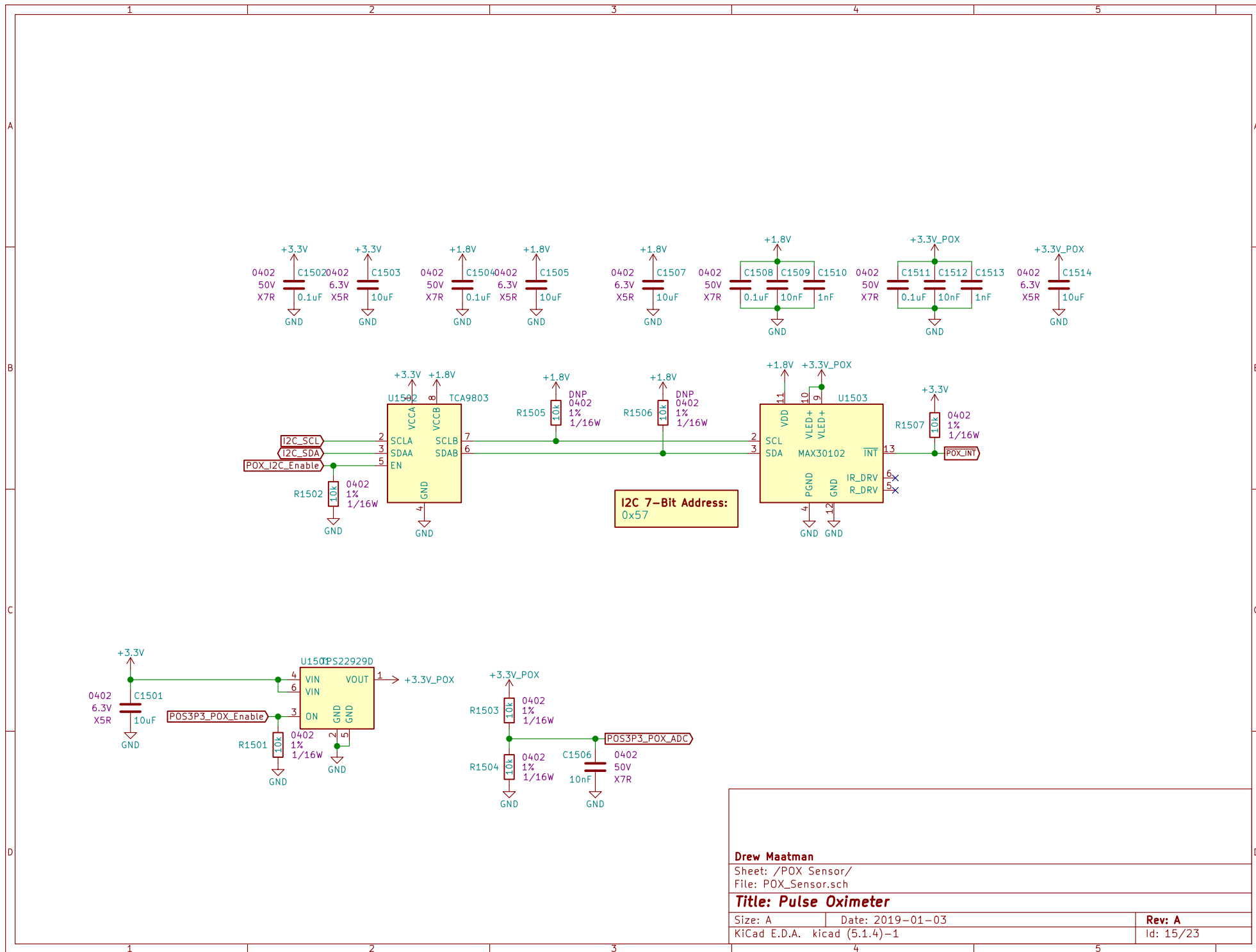
Title: Pulse Oximeter

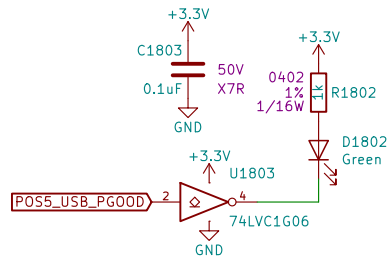
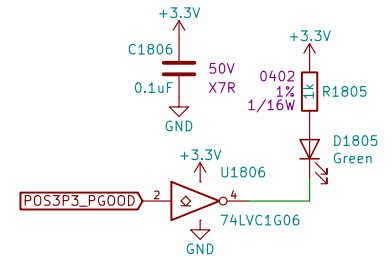
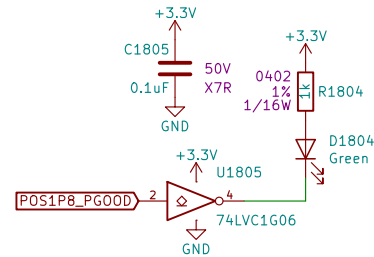
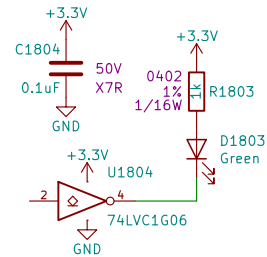
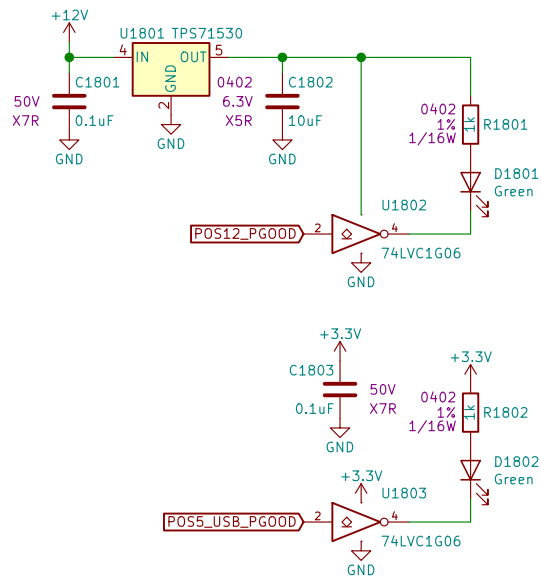
Size: A Date: 2019-01-03
KiCad E.D.A. kicad (5.1.4)-1

Rev: A
Id: 13/23



Rev: A
Id: 14/23





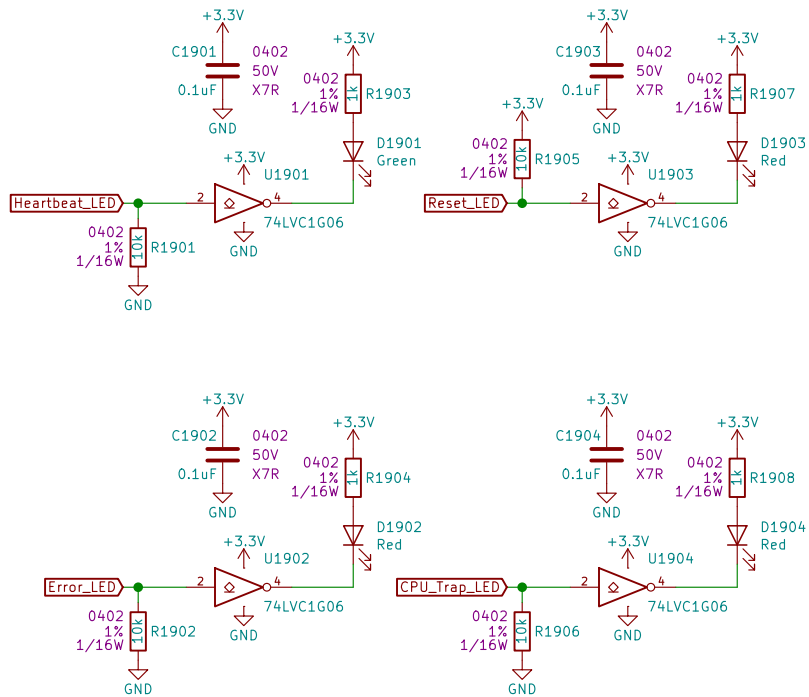
Drew Maatman

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: 18/23



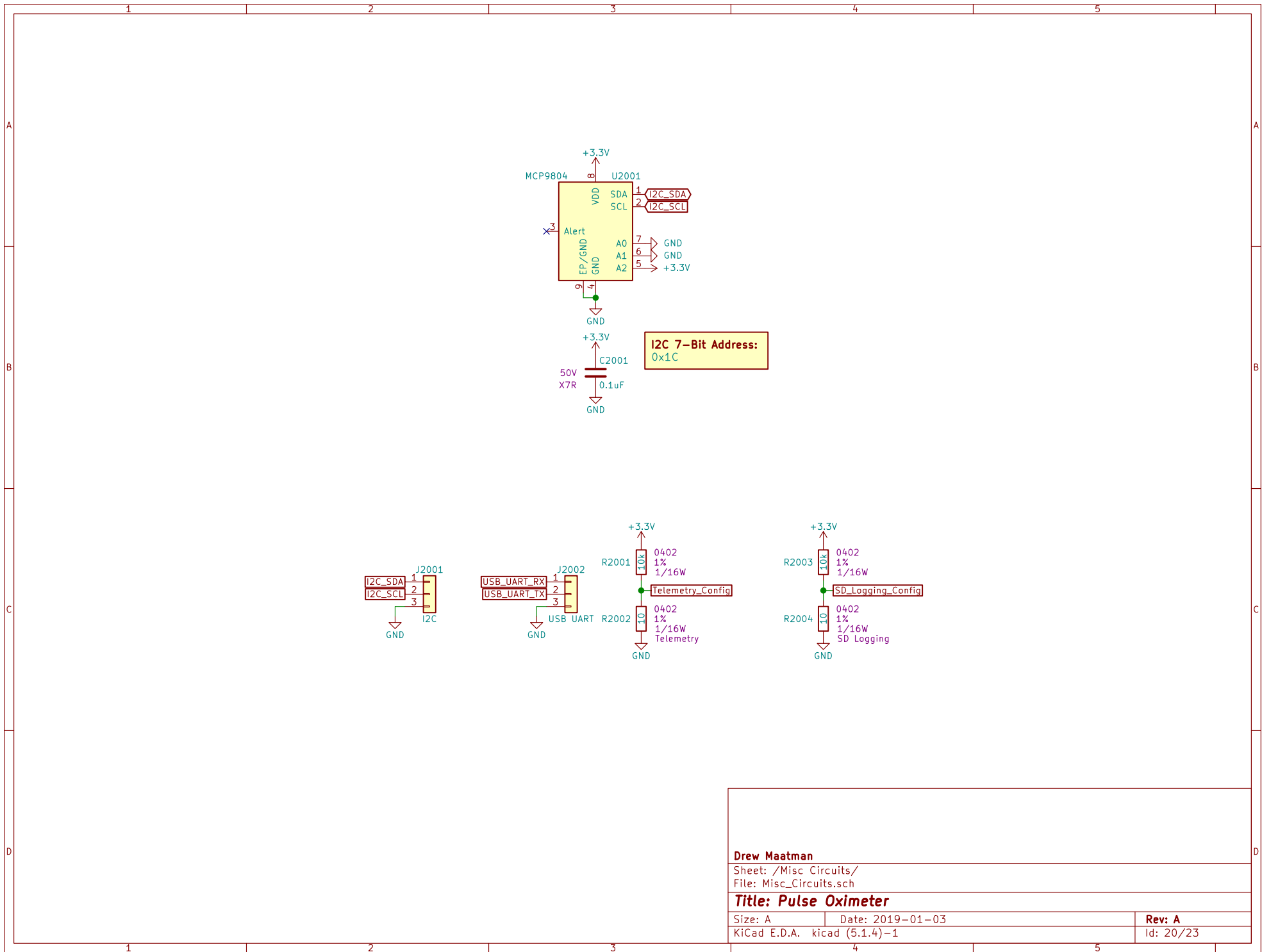
Drew Maatman

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: 19/23



Drew Maatman

Sheet: /Misc Circuits/
File: Misc_Circuits.sch

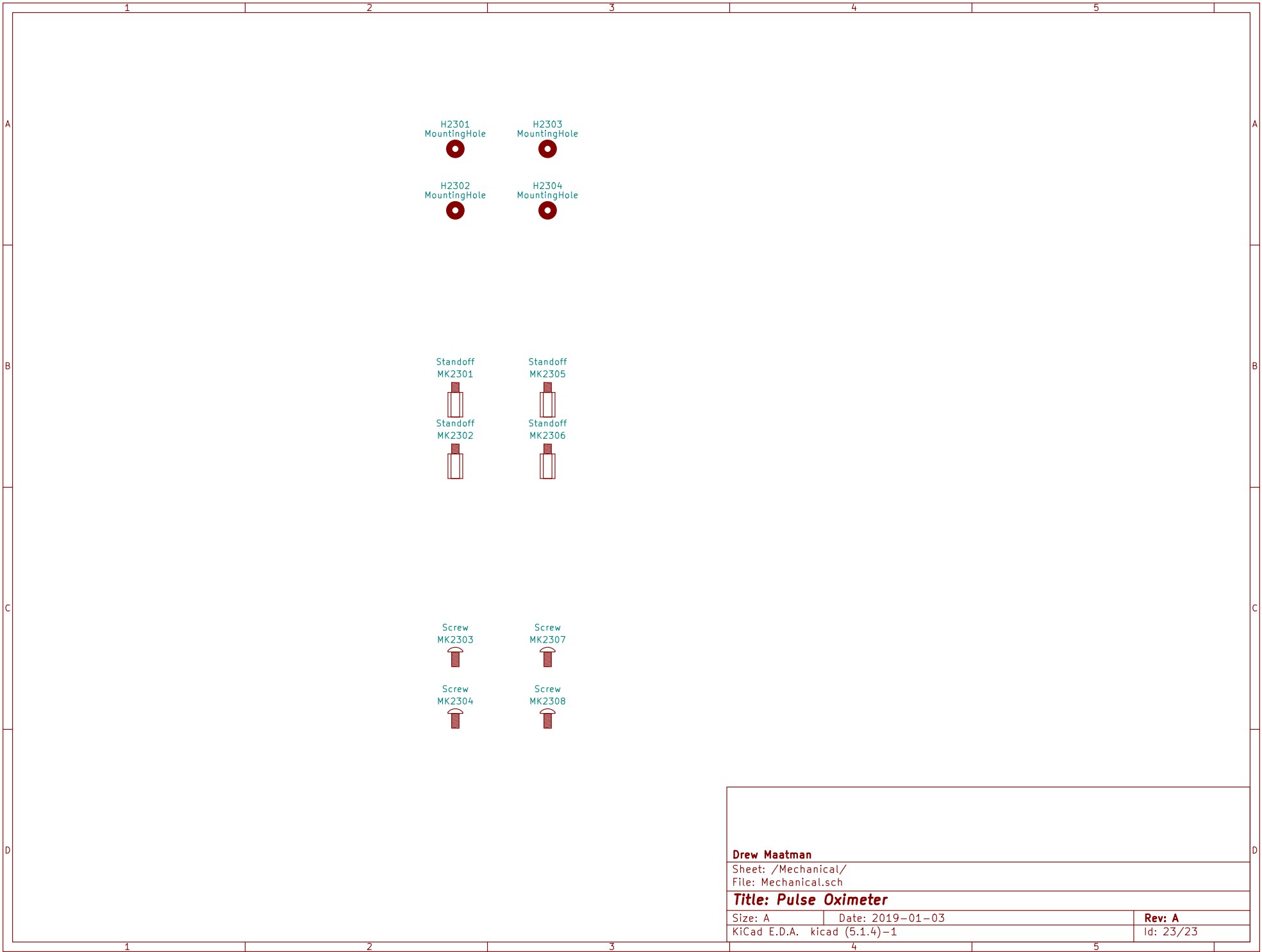
Title: Pulse Oximeter

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

Rev: A
Id: 20/23



Rev: A
Id: 21/23



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: 23/23