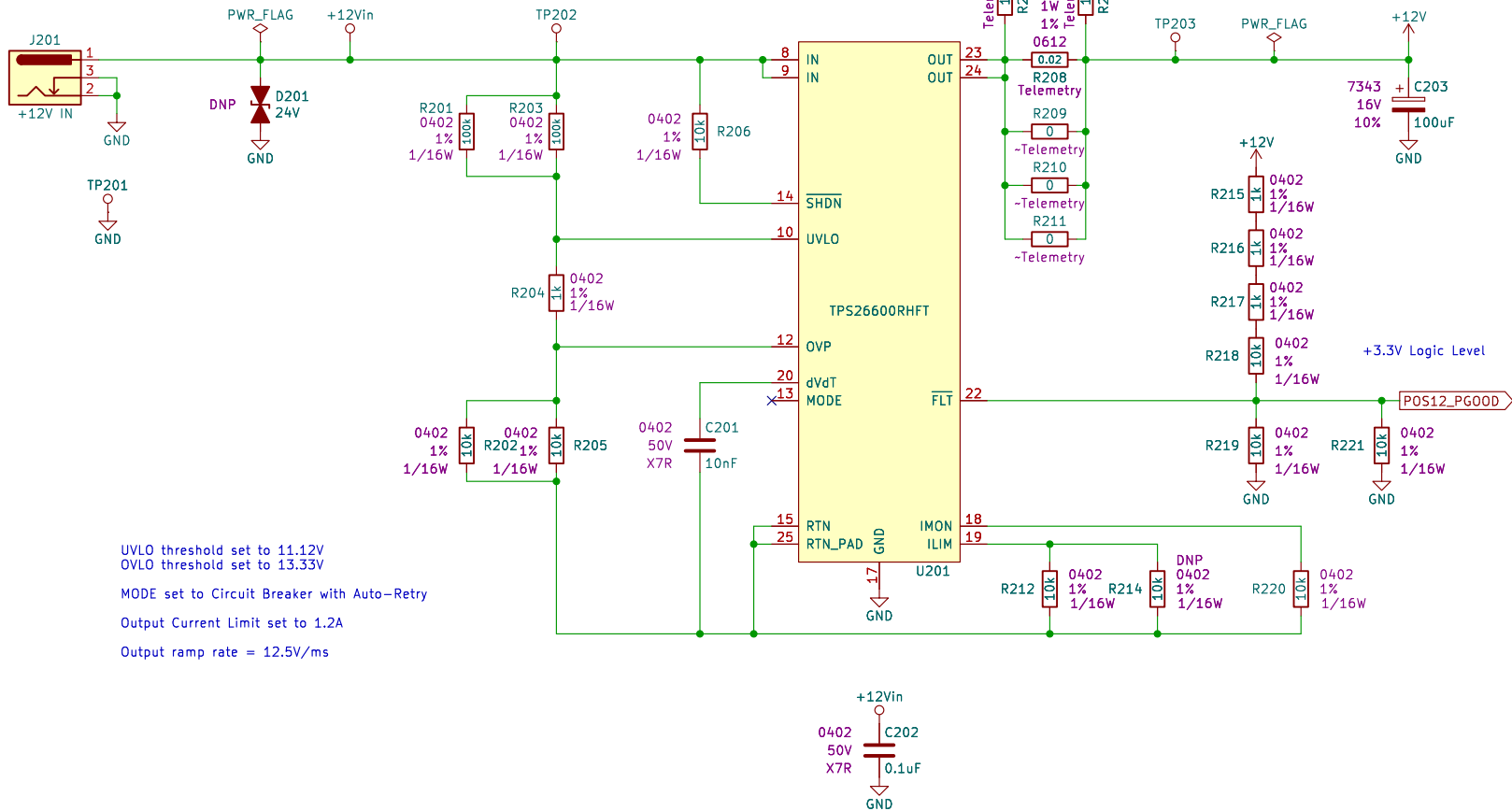


	1	2	3	4	5	
A	<div>Power Input</div> <div></div> <div>File: power_input.kicad_sch</div> <div>Power Input Telemetry</div> <div></div> <div>File: power_input_telemetry.kicad_sch</div> <div>+3.3V Power Supply</div> <div></div> <div>File: pos3p3_power_supply.kicad_sch</div> <div>+3.3V Telemetry</div> <div></div> <div>File: pos3p3_telemetry.kicad_sch</div> <div>+180V Power Supply</div> <div></div> <div>File: pos180_power_supply.kicad_sch</div> <div>+180V Telemetry</div> <div></div> <div>File: pos180_telemetry.kicad_sch</div> <div>PIC32MZ Programming</div> <div></div> <div>File: pis32mz_programming.kicad_sch</div> <div>PIC32MZ Bypass</div> <div></div> <div>File: PIC32MZ_Bypass.kicad_sch</div> <div>PIC32MZ</div> <div></div> <div>File: PIC32MZ.kicad_sch</div> <div>PIC32MZ Clocking</div> <div></div> <div>File: PIC32MZ_Clocking.kicad_sch</div> <div>Backup RTC</div> <div></div> <div>File: Backup_RTC.kicad_sch</div> <div>USB UART Bridge</div> <div></div> <div>File: USB_UART_Bridge.kicad_sch</div> <div>USB Telemetry</div> <div></div> <div>File: USB_Telemetry.kicad_sch</div> <div>Platform ETC</div> <div></div> <div>File: Platform_ETC.kicad_sch</div> <div>PGOOD LEDs</div> <div></div> <div>File: PGOOD_LEDs.kicad_sch</div> <div>Status LEDs</div> <div></div> <div>File: Status_LEDs.kicad_sch</div>	<div>IO Buffers 1</div> <div></div> <div>File: IO_Buffers_1.kicad_sch</div> <div>IO Buffers 2</div> <div></div> <div>File: IO_Buffers_2.kicad_sch</div> <div>IO Connectors</div> <div></div> <div>File: IO_Connectors.kicad_sch</div> <div>Misc Circuits</div> <div></div> <div>File: Misc_Circuits.kicad_sch</div> <div>Mechanical</div> <div></div> <div>File: Mechanical.kicad_sch</div>				A
B						B
C						C
D					<div>Drew Maatman</div> <div>Sheet: /</div> <div>File: Nixie_Clock_Core.kicad_sch</div> <div>Title:</div> <div>Size: ADate: 2023-05-12KiCad E.D.A. kicad 7.0.1</div> <div>Rev: PRELIMId: 1/22</div>	D
	1	2	3	4	5	

CHANGE TO 24V BUS



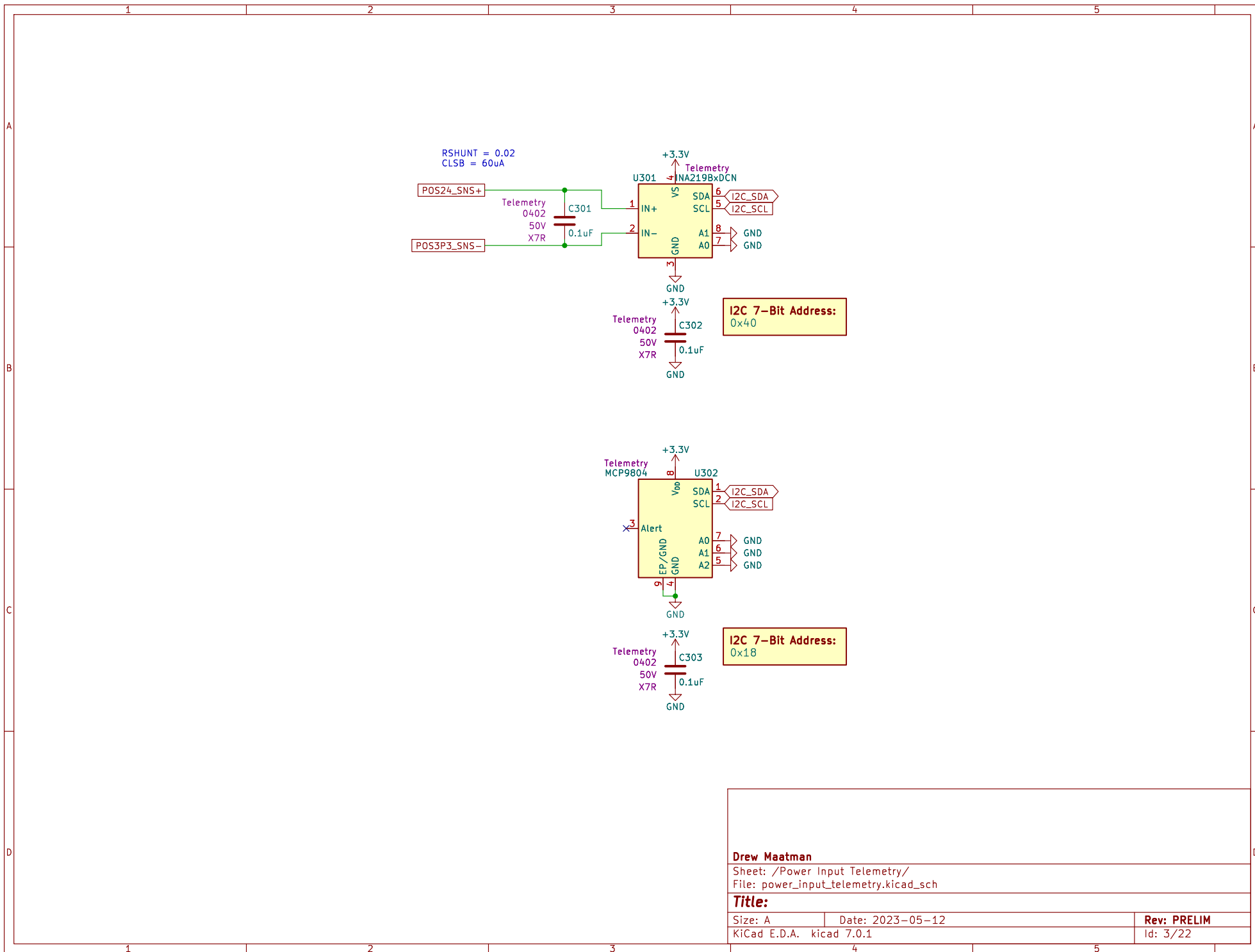
Drew Maatman

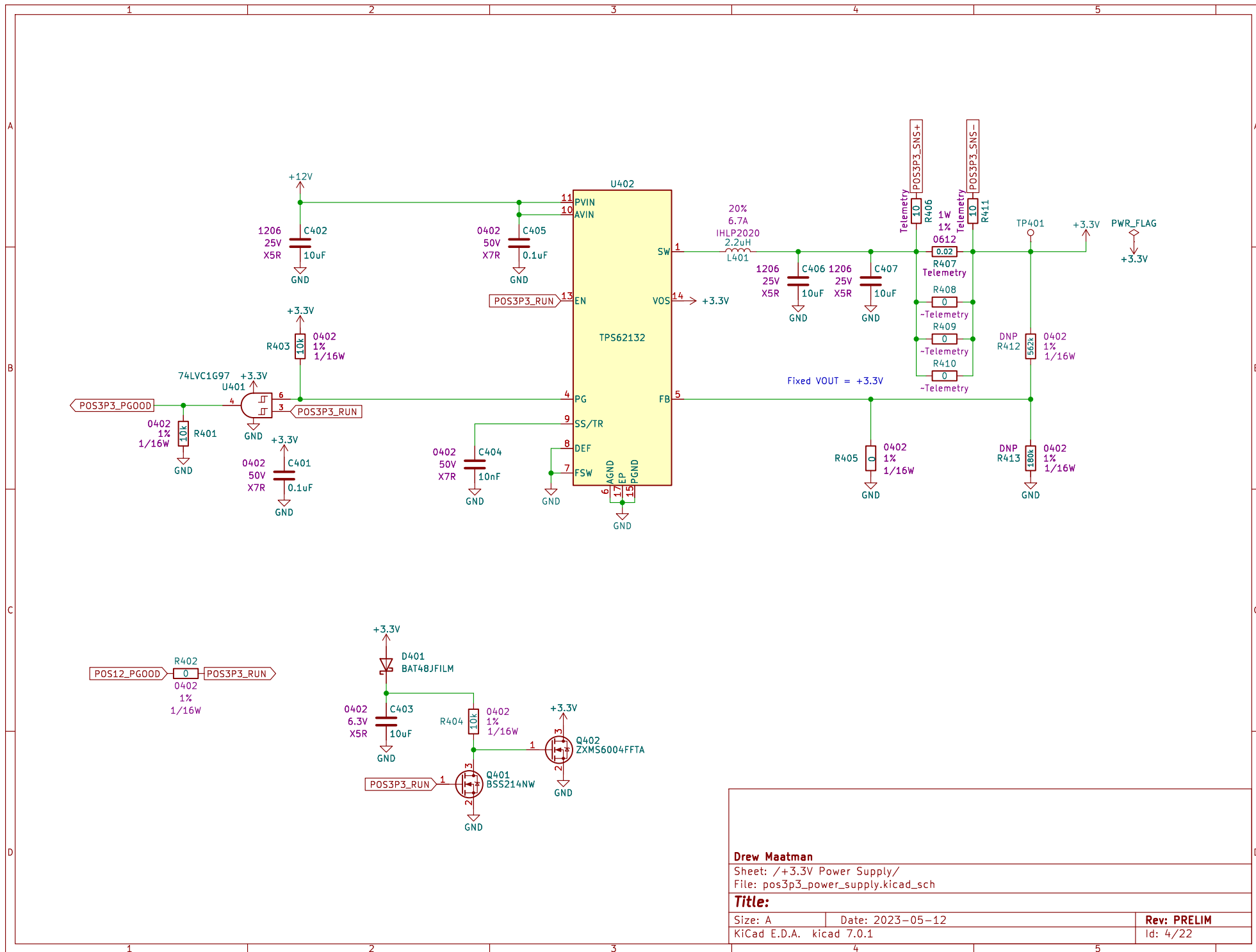
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 File: power_input.kicad_sch

Title:

Size: A Date: 2023-05-12
 KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
 Id: 2/22





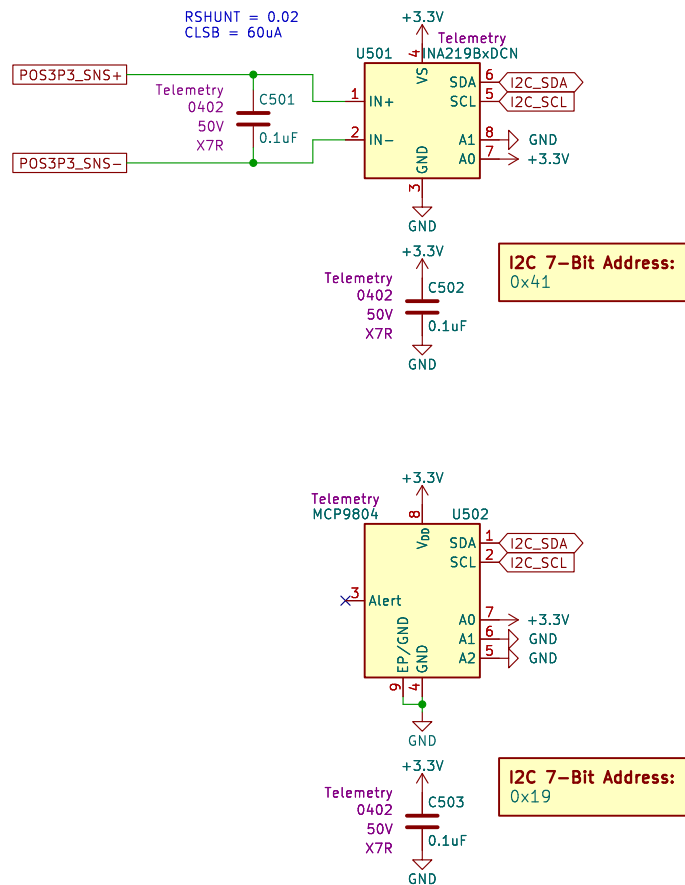
Drew Maatman

Sheet: /+3.3V Power Supply/
File: pos3p3_power_supply.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 4/22



Drew Maatman

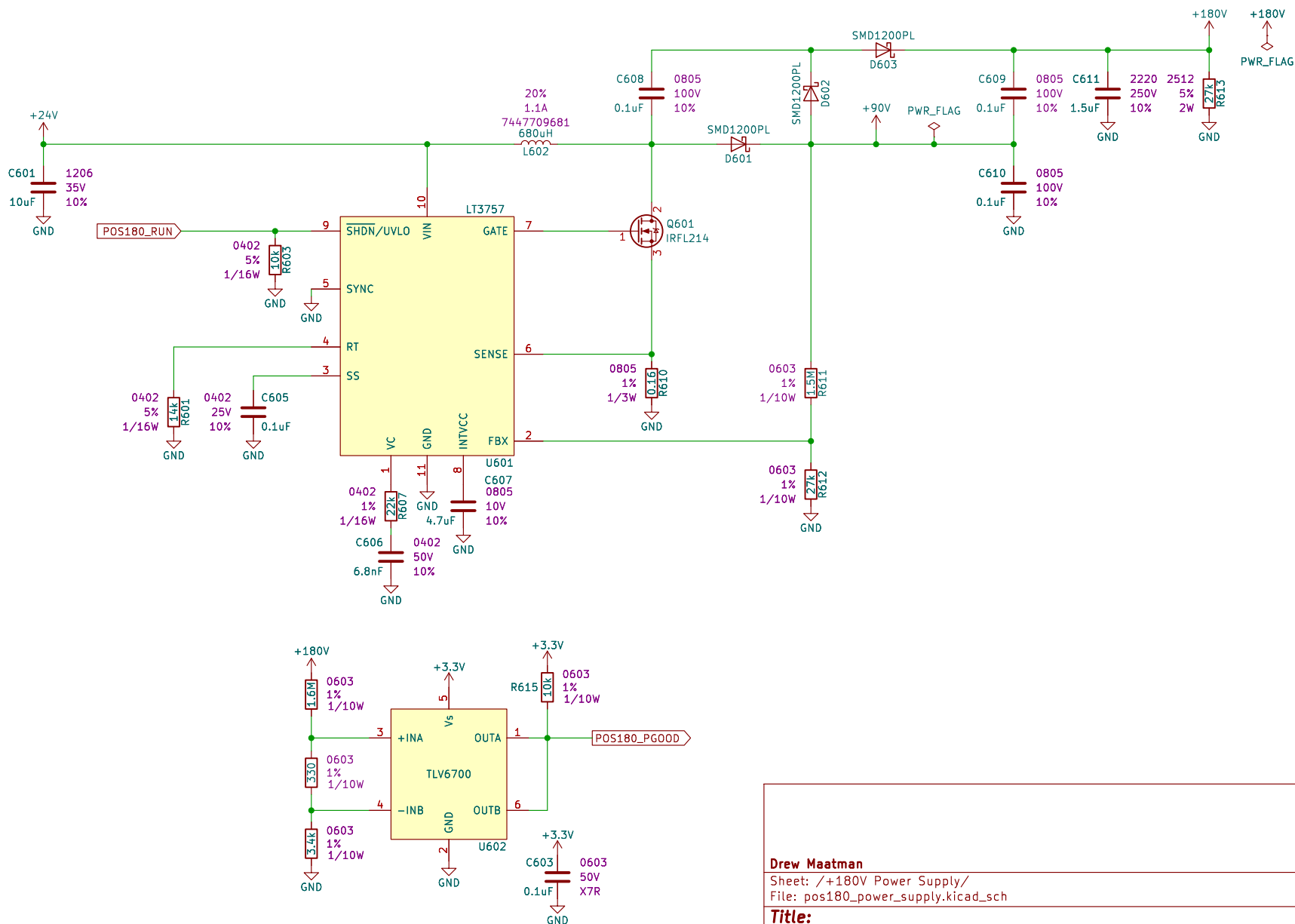
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File: pos3p3_telemetry.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 5/22

REEVALUATE ALL VOLTAGE DERATINGS



Drew Maatman

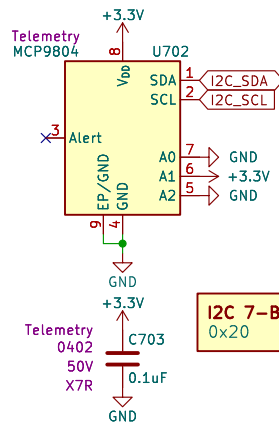
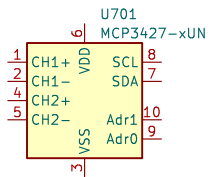
Sheet: /+180V Power Supply/
File: pos180_power_supply.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 6/22

USE THIS TO MONITOR +180V AND +90V



I2C 7-Bit Address:
0x20

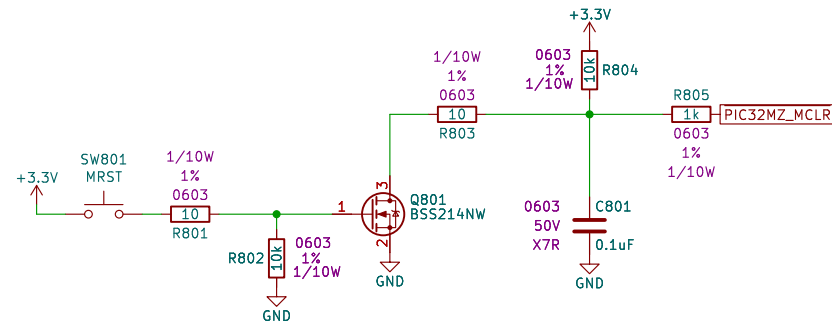
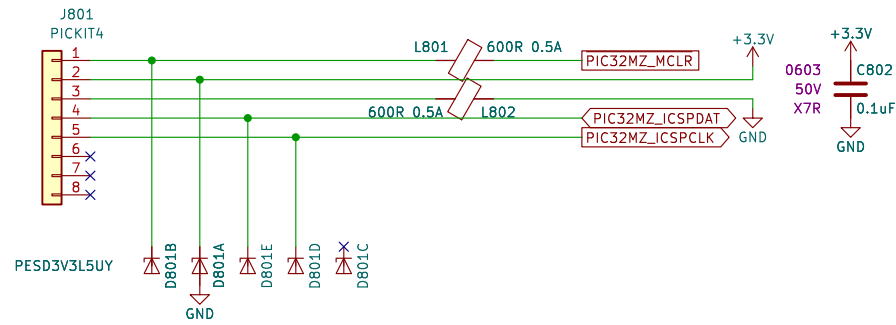
Drew Maatman

Sheet: /+180V Telemetry/
File: pos180_telemetry.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 7/22



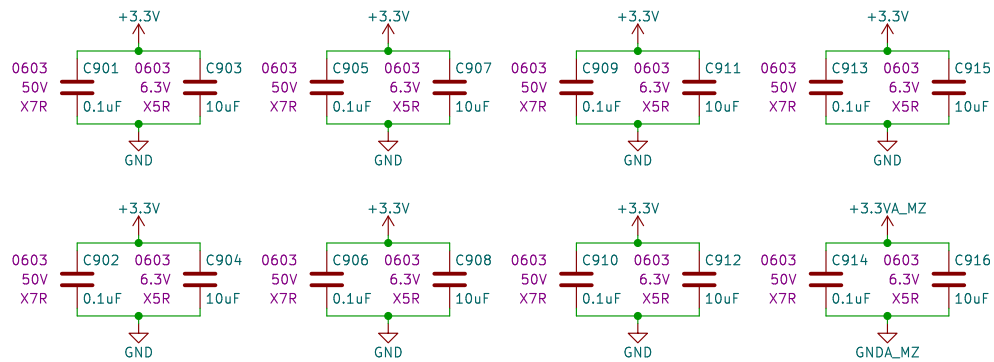
Drew Maatman

Sheet: /PIC32MZ Programming/
File: pis32mz_programming.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 8/22



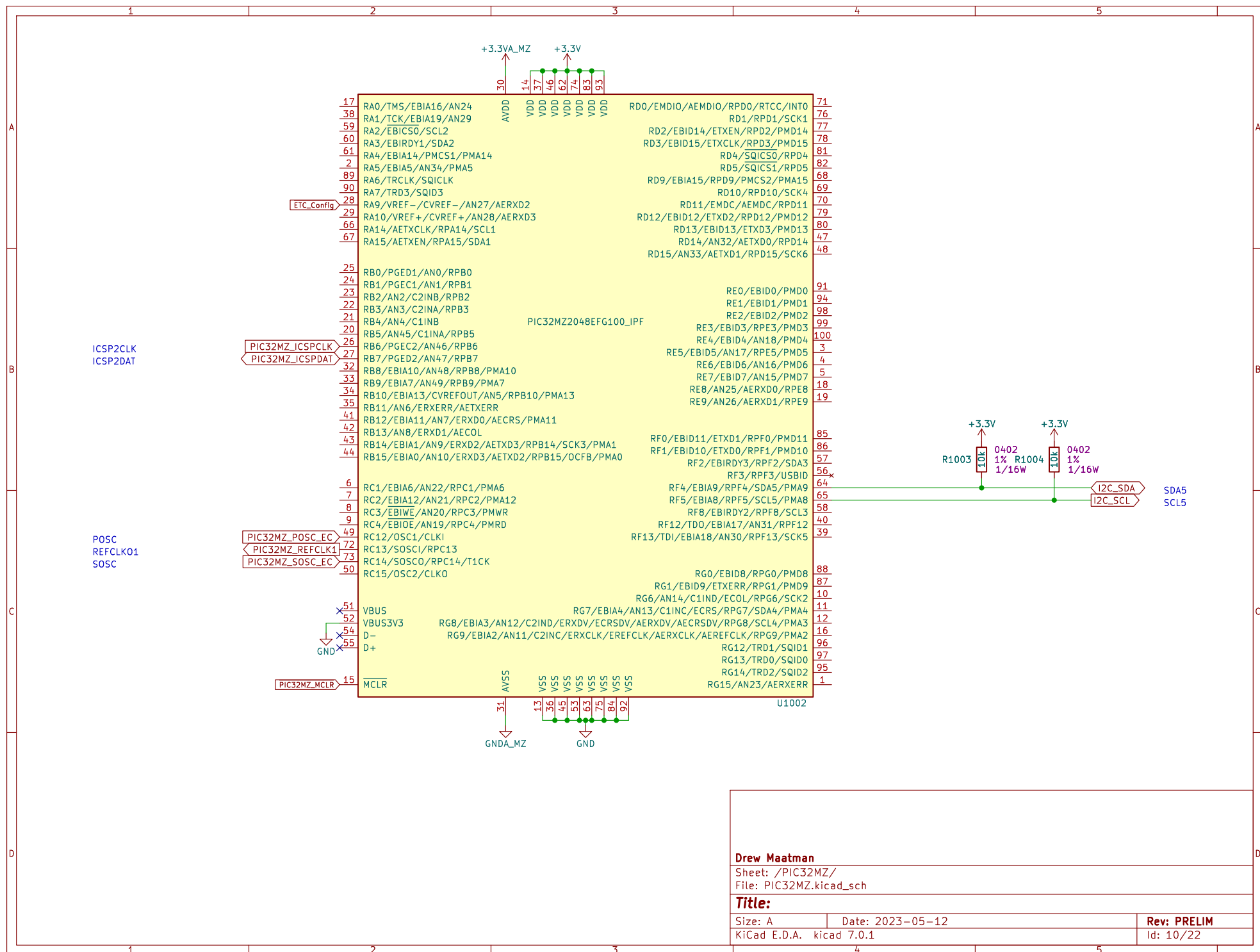
Drew Maatman

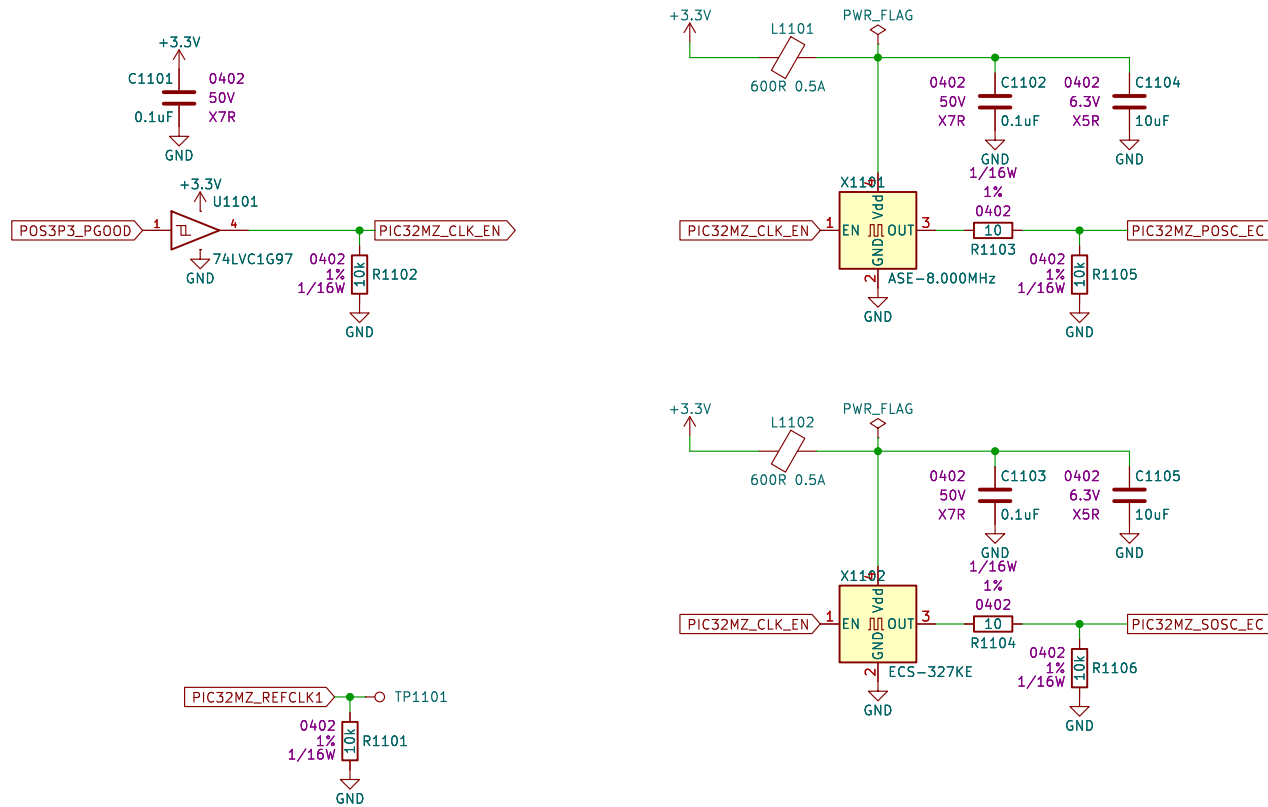
Sheet: /PIC32MZ Bypass/
File: PIC32MZ_Bypass.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 9/22





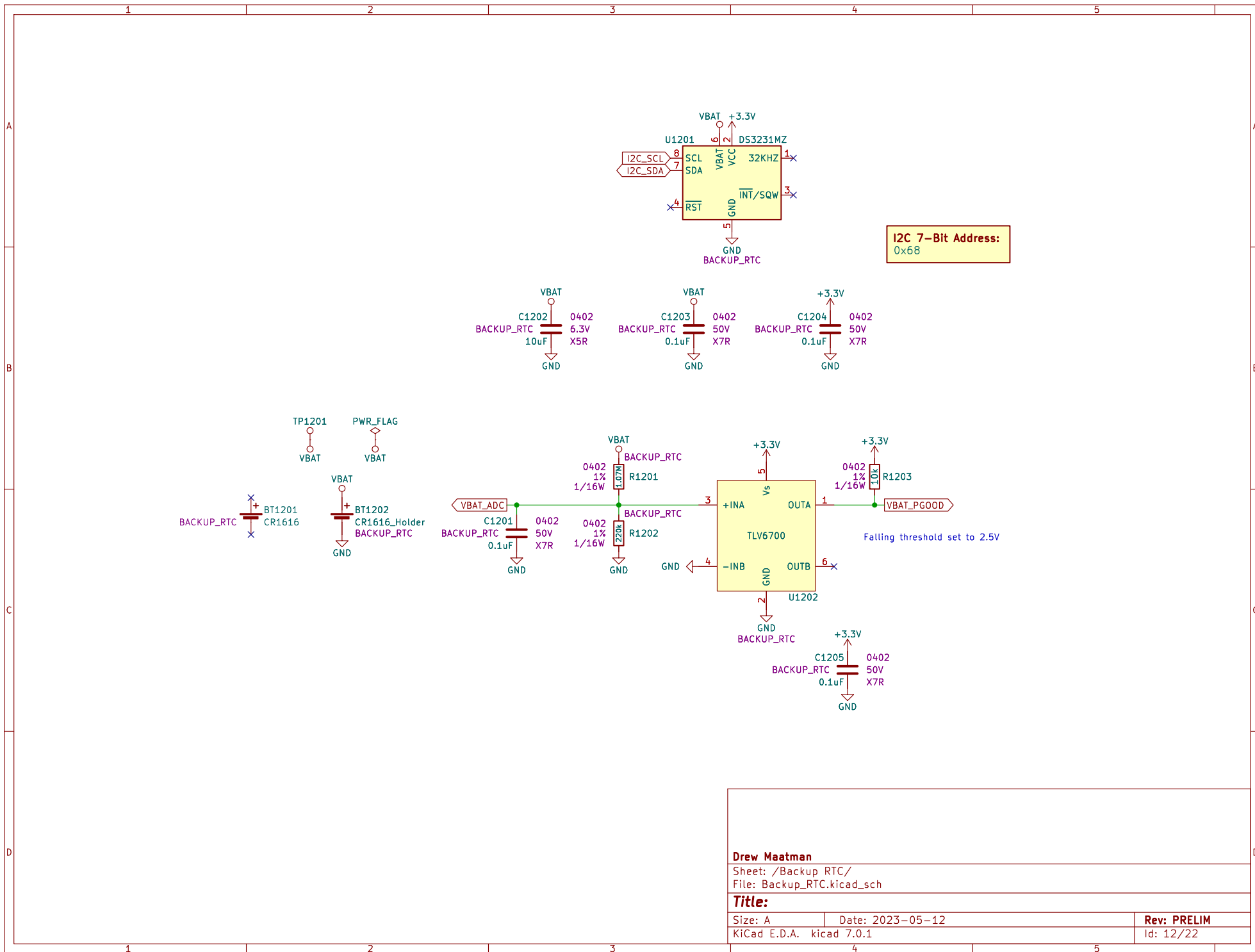
Drew Maatman

Sheet: /PIC32MZ Clocking/
File: PIC32MZ_Clocking.kicad_sch

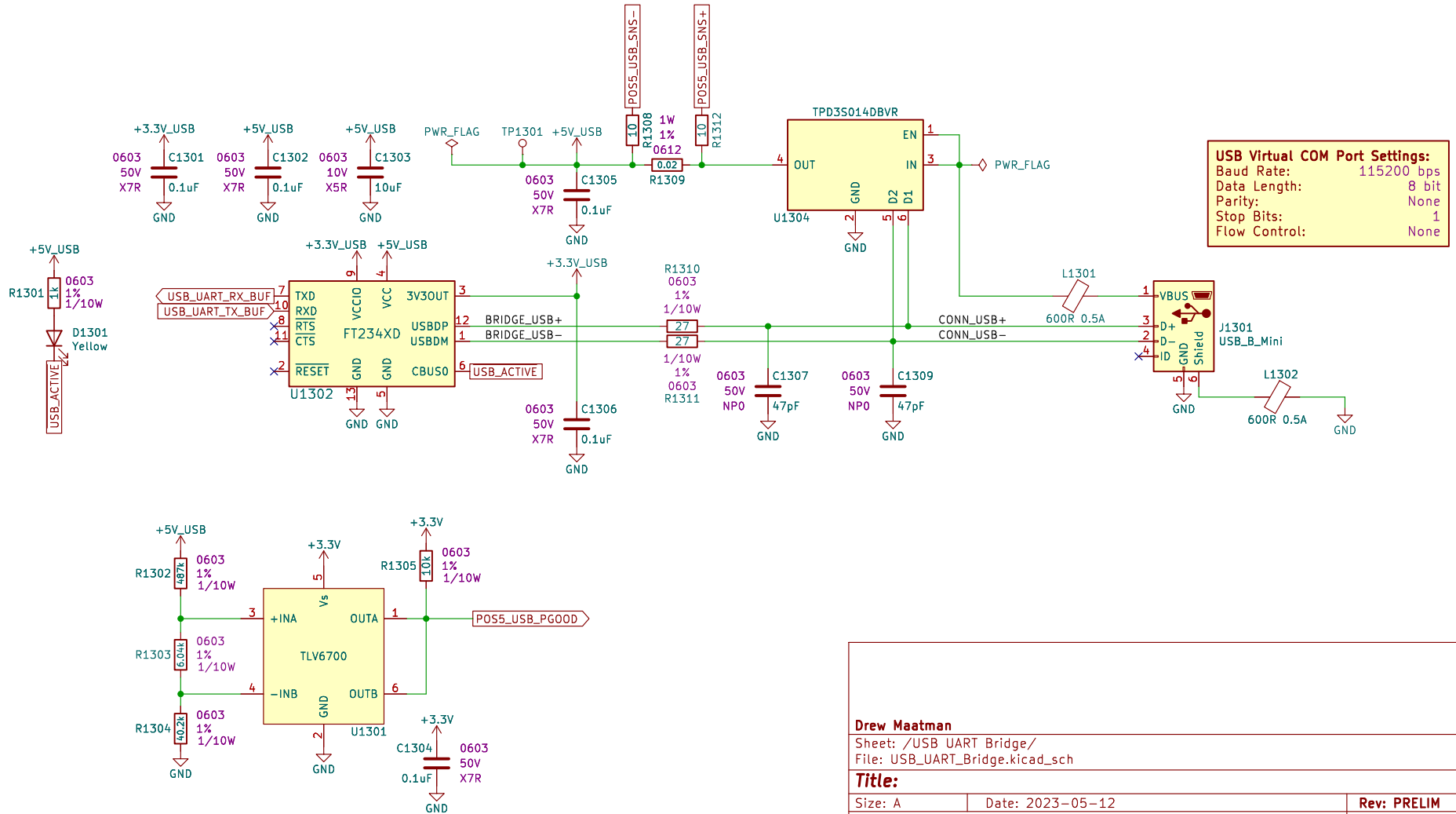
Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 11/22



FIX THIS, THIS IS WRONG, ADD LEGIT ISOLATION



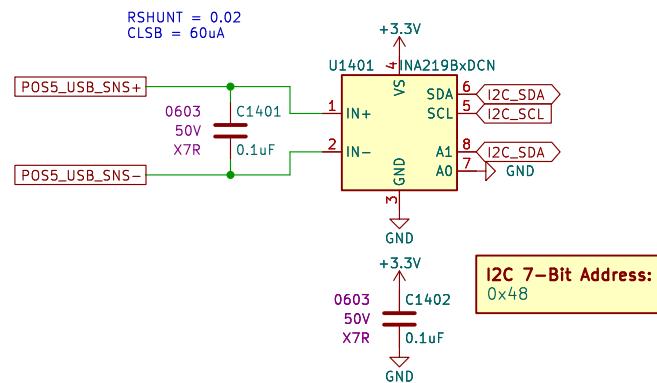
Drew Maatman

Sheet: /USB UART Bridge/
File: USB_UART_Bridge.kicad_sch

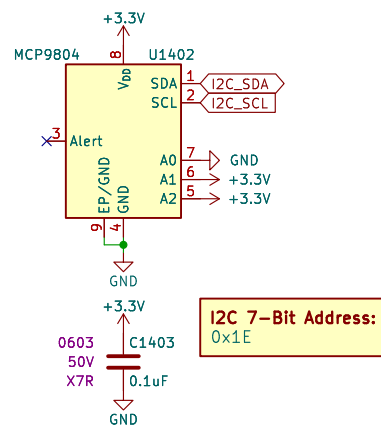
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Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 13/22



POTENTIALLY REMOVE THIS



Drew Maatman

Sheet: /USB Telemetry/
File: USB_Telemetry.kicad_sch

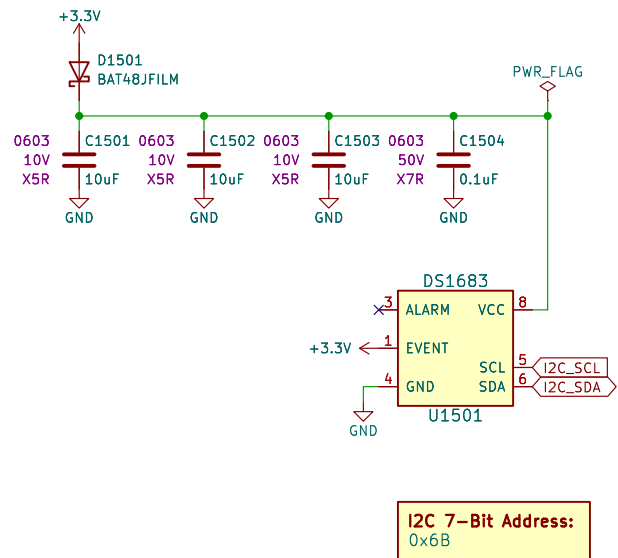
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Size: A Date: 2023-05-12

KiCad E.D.A. kicad 7.0.1

Rev: PRELIM

Id: 14/22



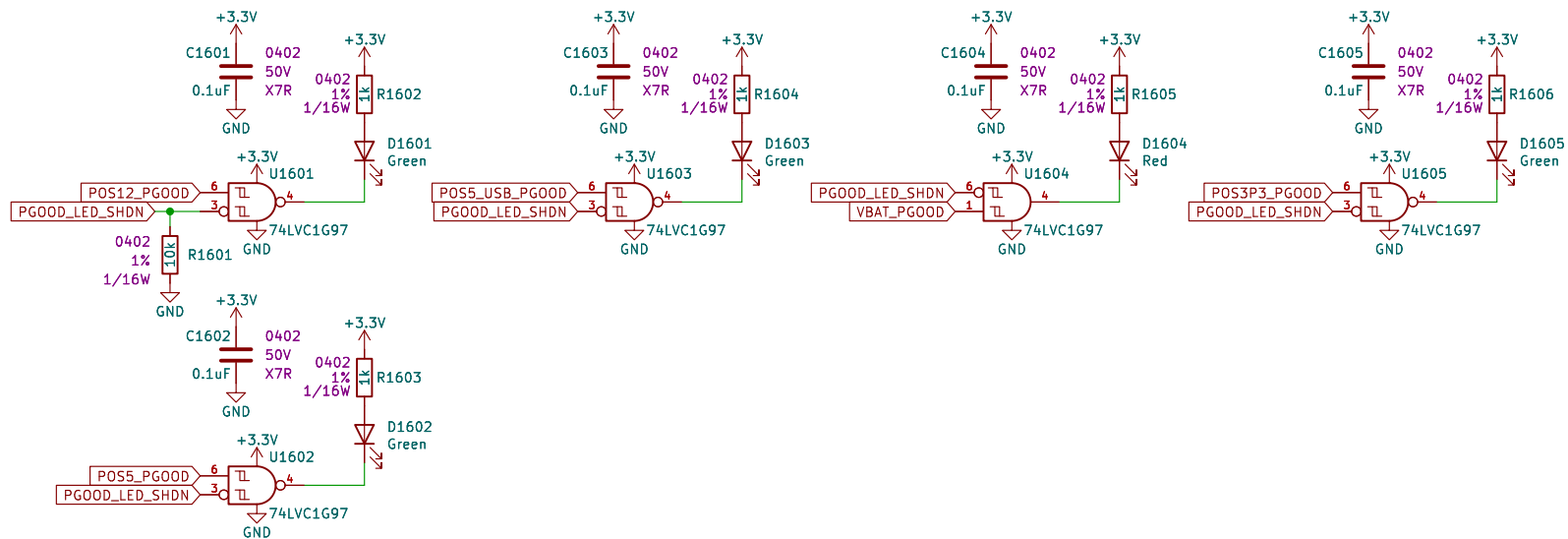
Drew Maatman

Sheet: /Platform ETC/
File: Platform_ETC.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 15/22



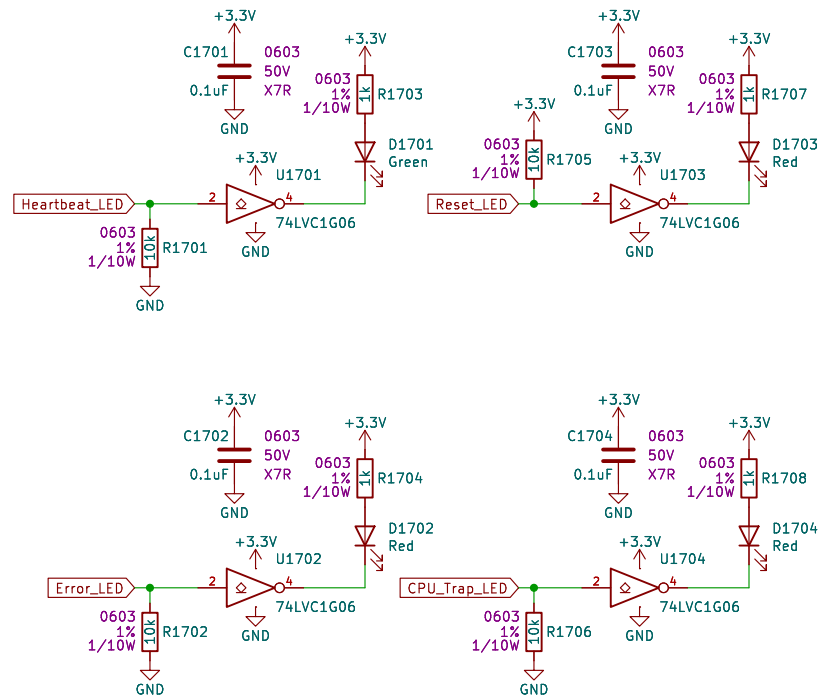
Drew Maatman

Sheet: /PG00D LEDs/
File: PG00D_LEDs.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 16/22



Drew Maatman

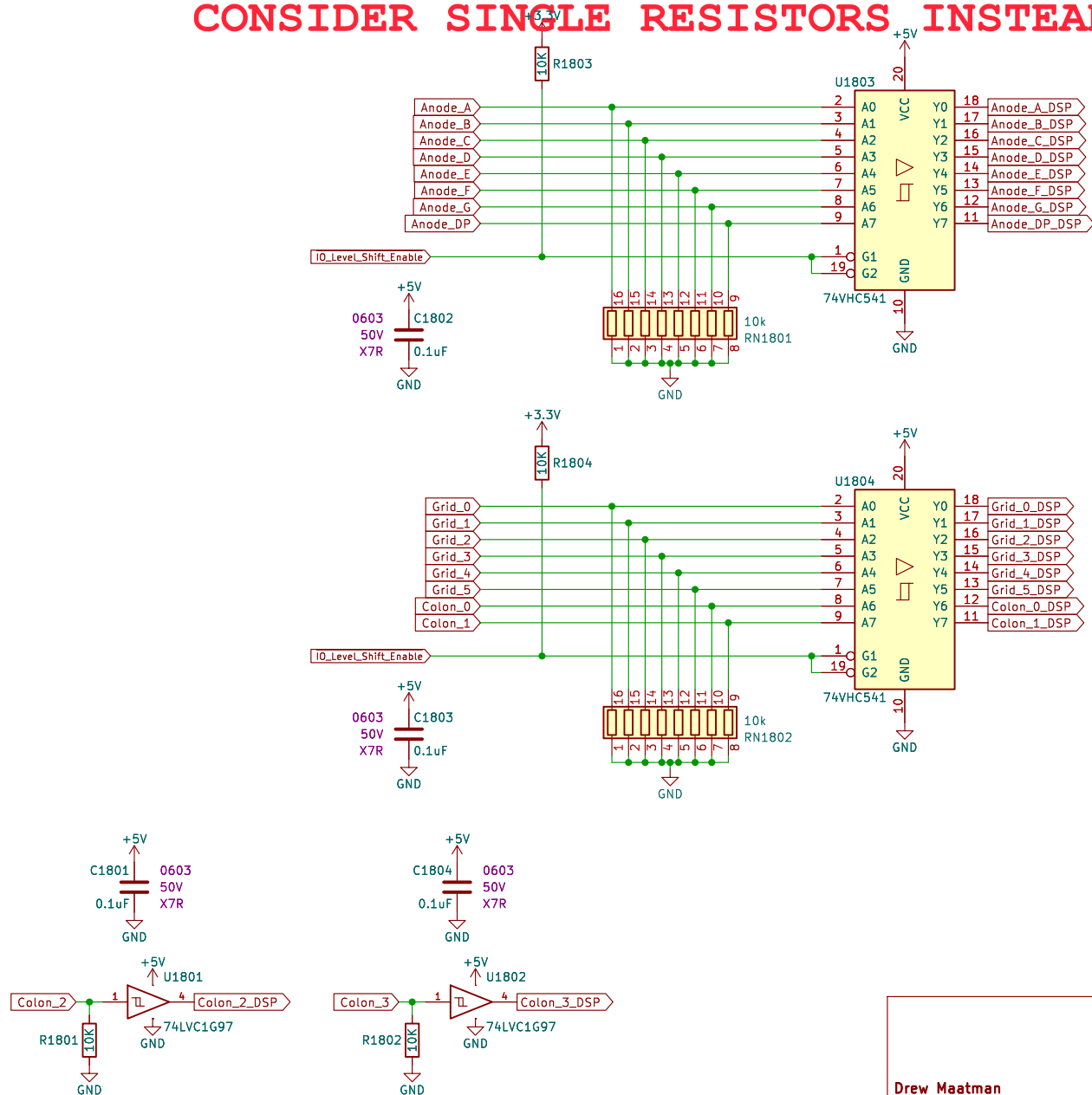
Sheet: /Status LEDs/
File: Status_LEDs.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 17/22

CONSIDER SINGLE RESISTORS INSTEAD OF RPACKS



Drew Maatman

Sheet: /IO Buffers 1/
File: IO_Buffers_1.kicad_sch

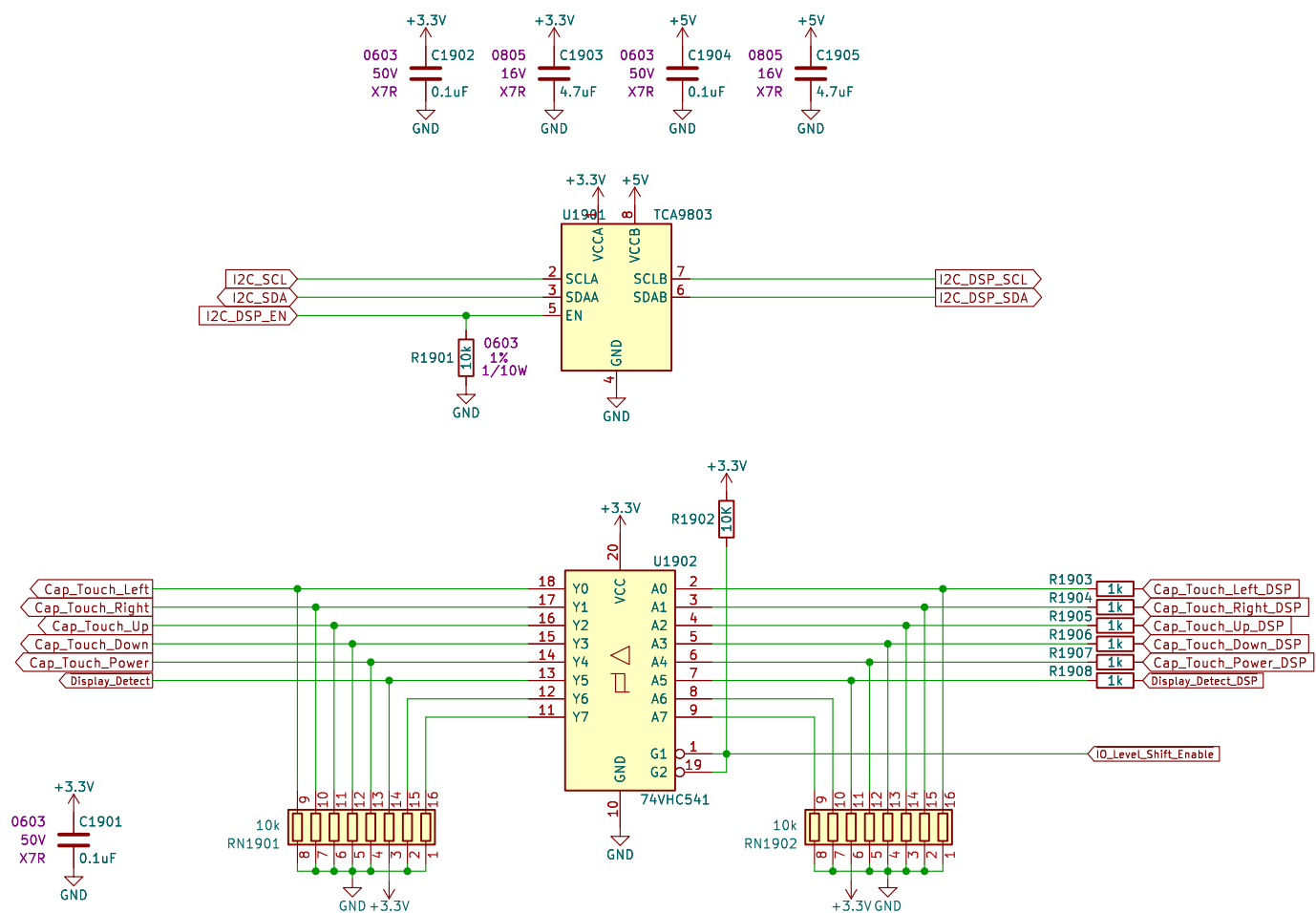
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Size: A Date: 2023-05-12

KiCad E.D.A. kicad 7.0.1

Rev: PRELIM

Id: 18/22



Drew Maatman

Sheet: /IO Buffers 2/
File: IO_Buffers_2.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 19/22

FIND A CONNECTOR THAT CAN HANDLE HIGH VOLTAGE
AND SIGNALLING THAT ISNT AWFUL

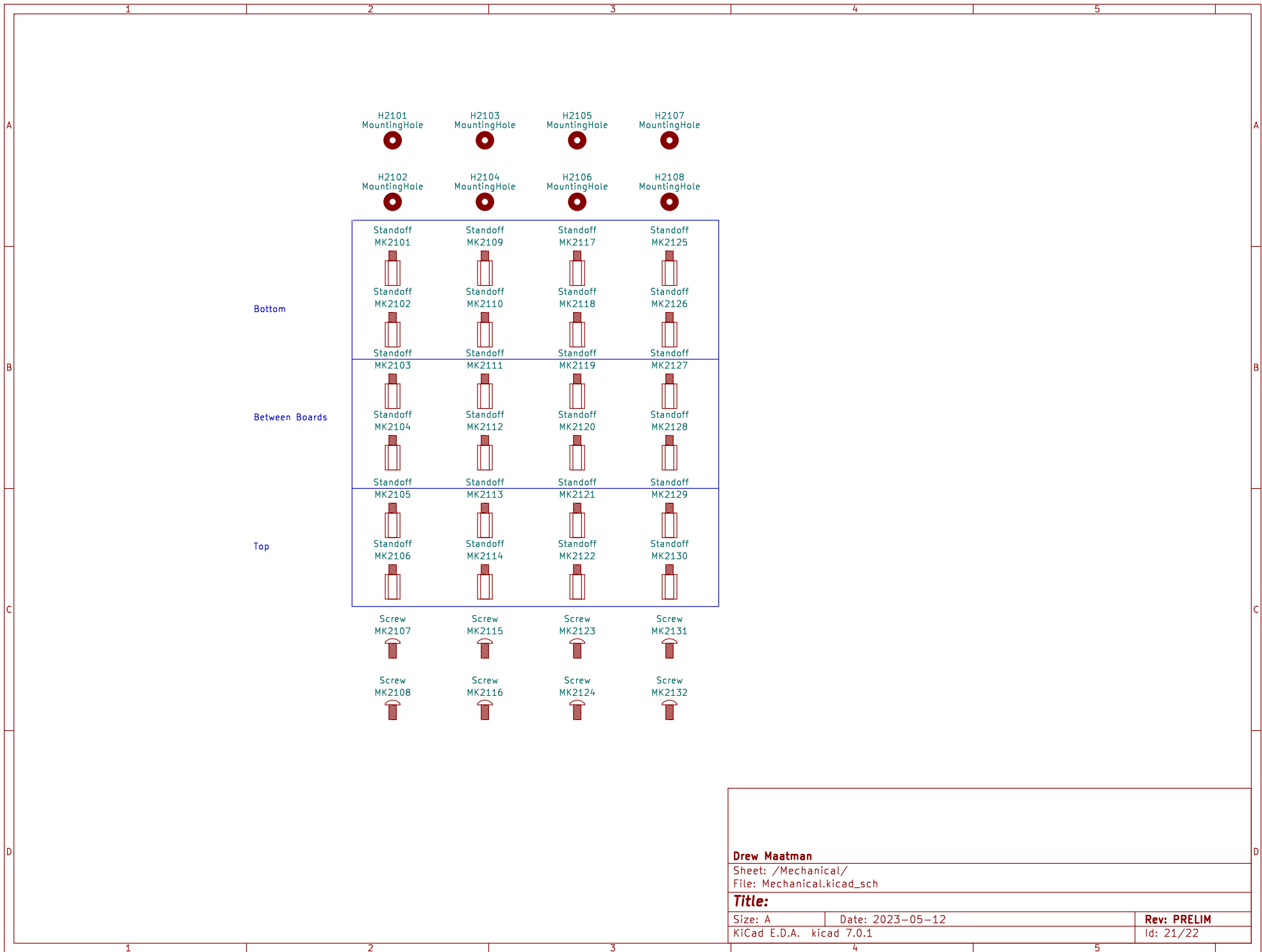
Drew Maatman

Sheet: /IO Connectors/
File: IO Connectors.kicad_sch

Title:

Size: A Date: 2023-05-12
KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 20/22



Drew Maatman

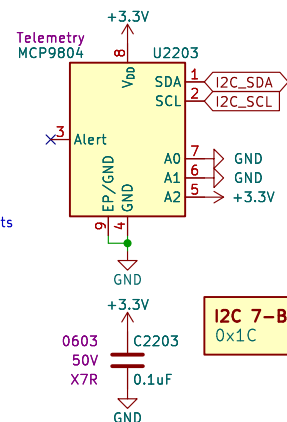
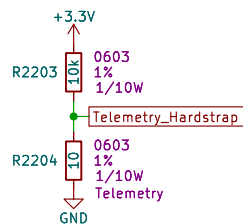
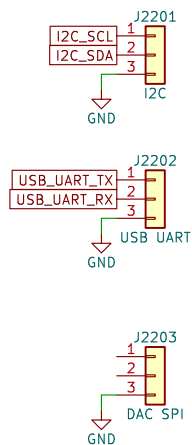
Sheet: /Mechanical/
File: Mechanical.kicad_sch

Title:

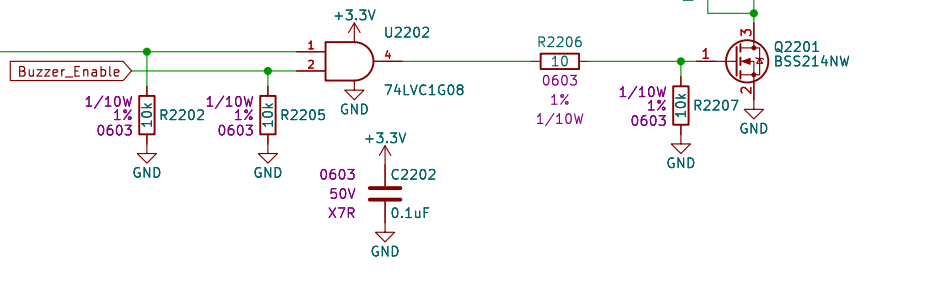
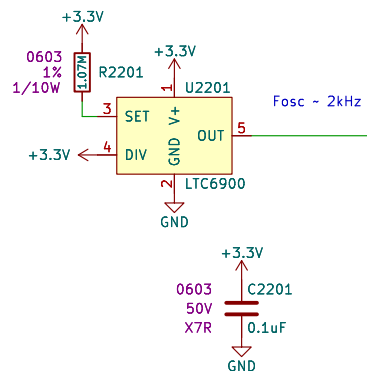
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KiCad E.D.A. kicad 7.0.1

Rev: PRELIM
Id: 21/22

ADD MORE HARDSTRAPS



I2C 7-Bit Address:
0x1C



Sheet: /Misc Circuits/
File: Misc_Circuits.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 7.0.1

Rev:

Id: 22/22