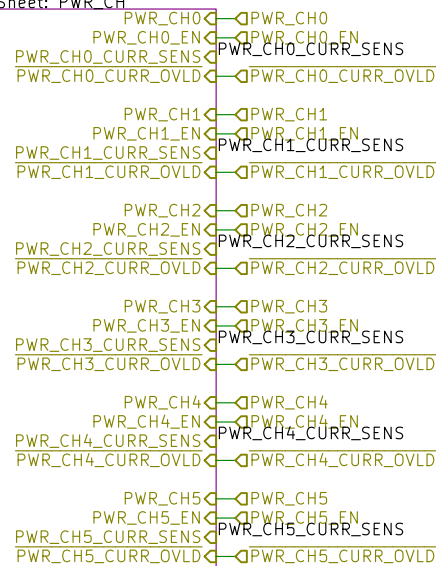
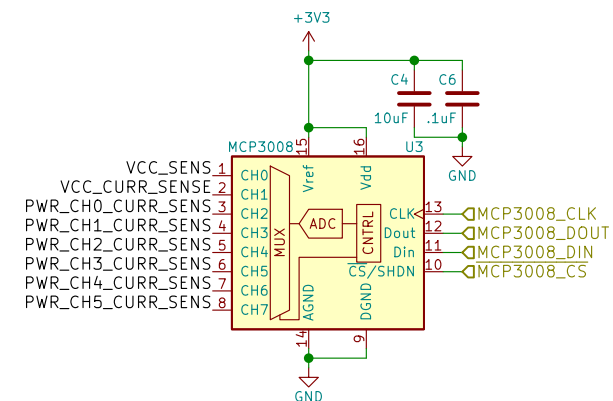
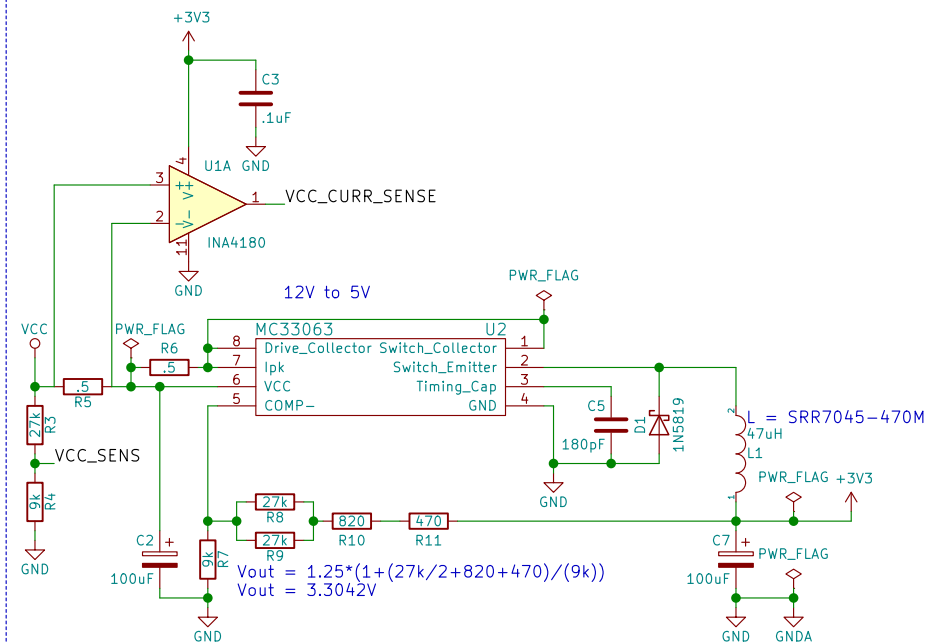


Sheet: PWR_CH



Ftite: PWR_CH.sch



Schematic Design: David Knight

Layout Design: Chris Johnson

SDSU Rocket Project

Sheet: /Power/

File: Power.sch

Title: HELIX Extension Board

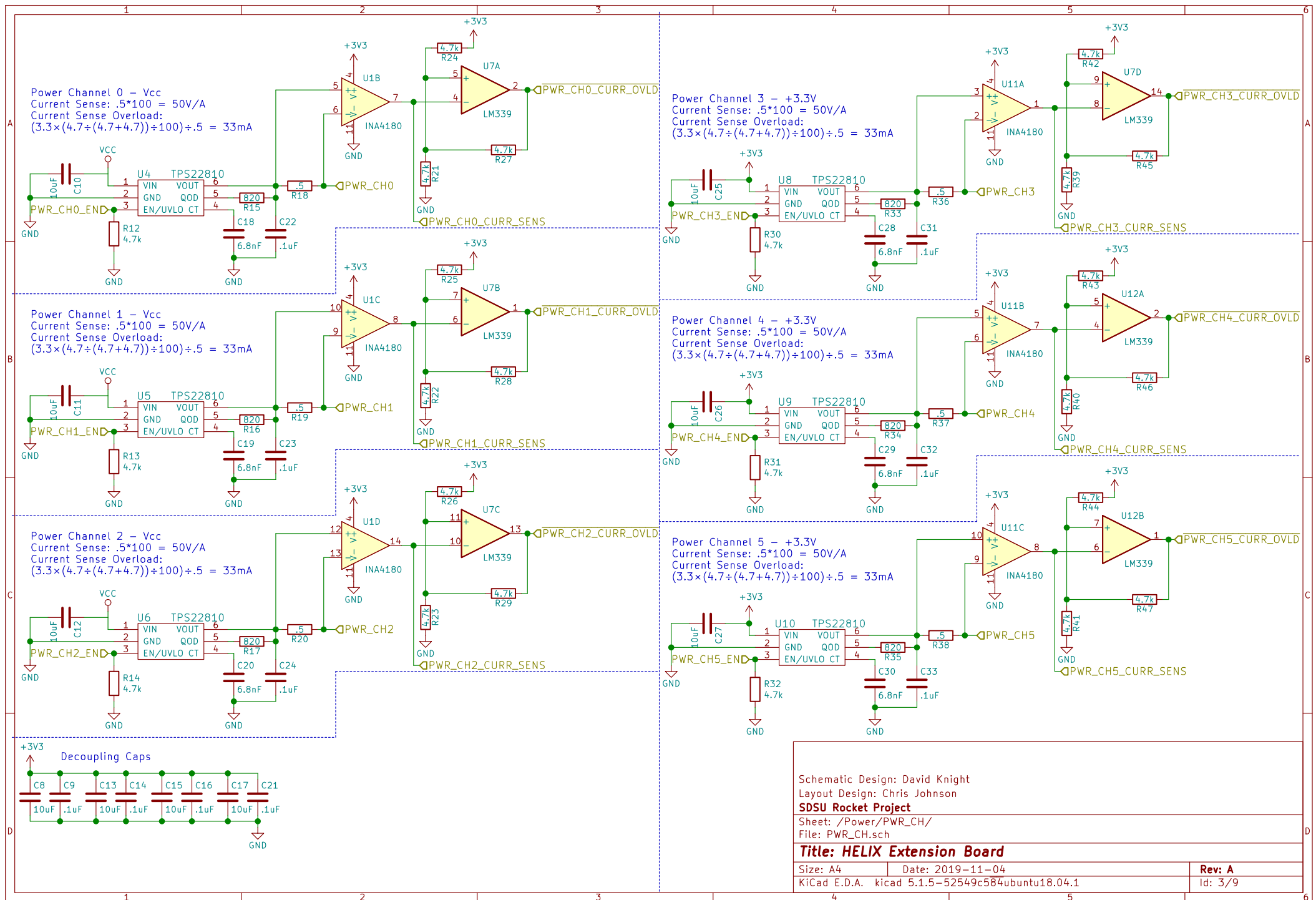
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Date: 2019-11-04

Rev: A

KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

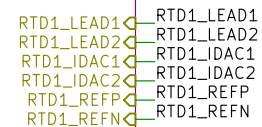
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TC_CH0 TC_CH0
TC_CH1 TC_CH1

RTDO_LEAD1	RTDO_LEAD1
RTDO_LEAD2	RTDO_LEAD2
RTDO_IDAC1	RTDO_IDAC1
RTDO_IDAC2	RTDO_IDAC2
RTDO_REFP	RTDO_REFP
RTDO_REFN	RTDO_REFN



PWR_CH3_HE  PWR_CH3_HE
PWR_CH4_HE  PWR_CH4_HE
PWR_CH5_HE PWR_CH5_HE

RTD0_LEAD1 12 X0
PT_CH0 14 X1
RTD1_LEAD1 15 X2
TC_CH0 11 X3
RTD0_LEAD2 1 Y0
PT_CH1 5 Y1
RTD1_LEAD2 2 Y2
TC_CH1 4 Y3

6 Inh
10 A
9 B

ADS1247_CHSEL_S0D
ADS1247_CHSEL_S1D

GND

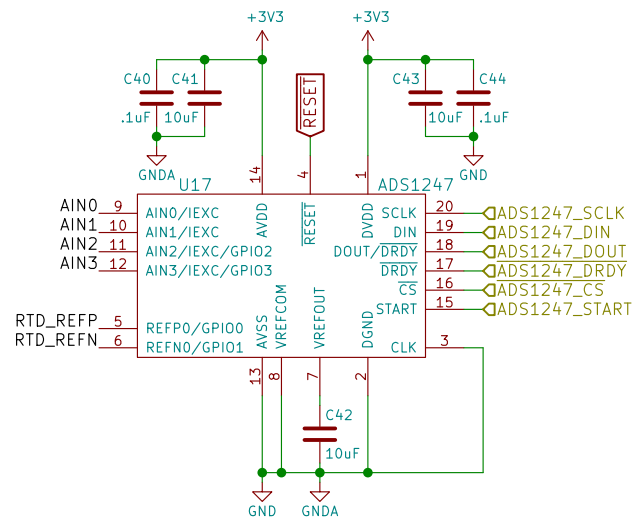
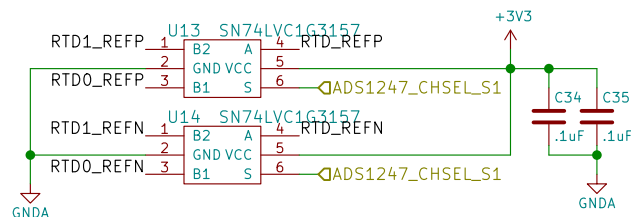
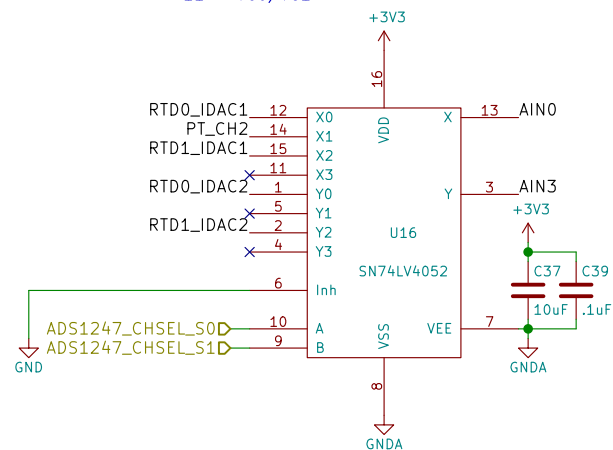
Sx - Sensor
00 - RTD0
01 - PT0/PT1
10 - RTD1
11 - TC0/TC1

+3V3 16 VDD
8 VSS
GND A

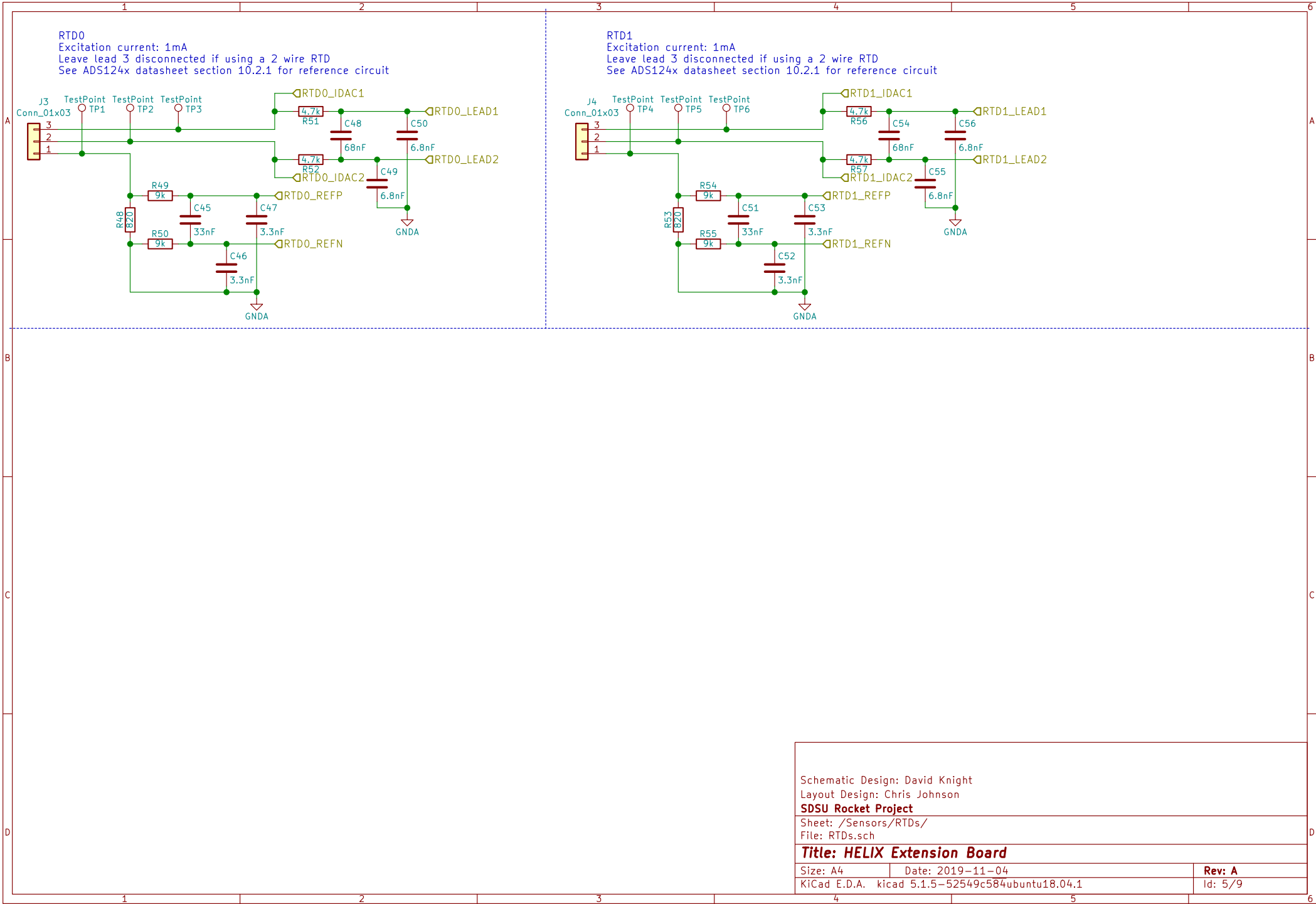
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SN74LV4052

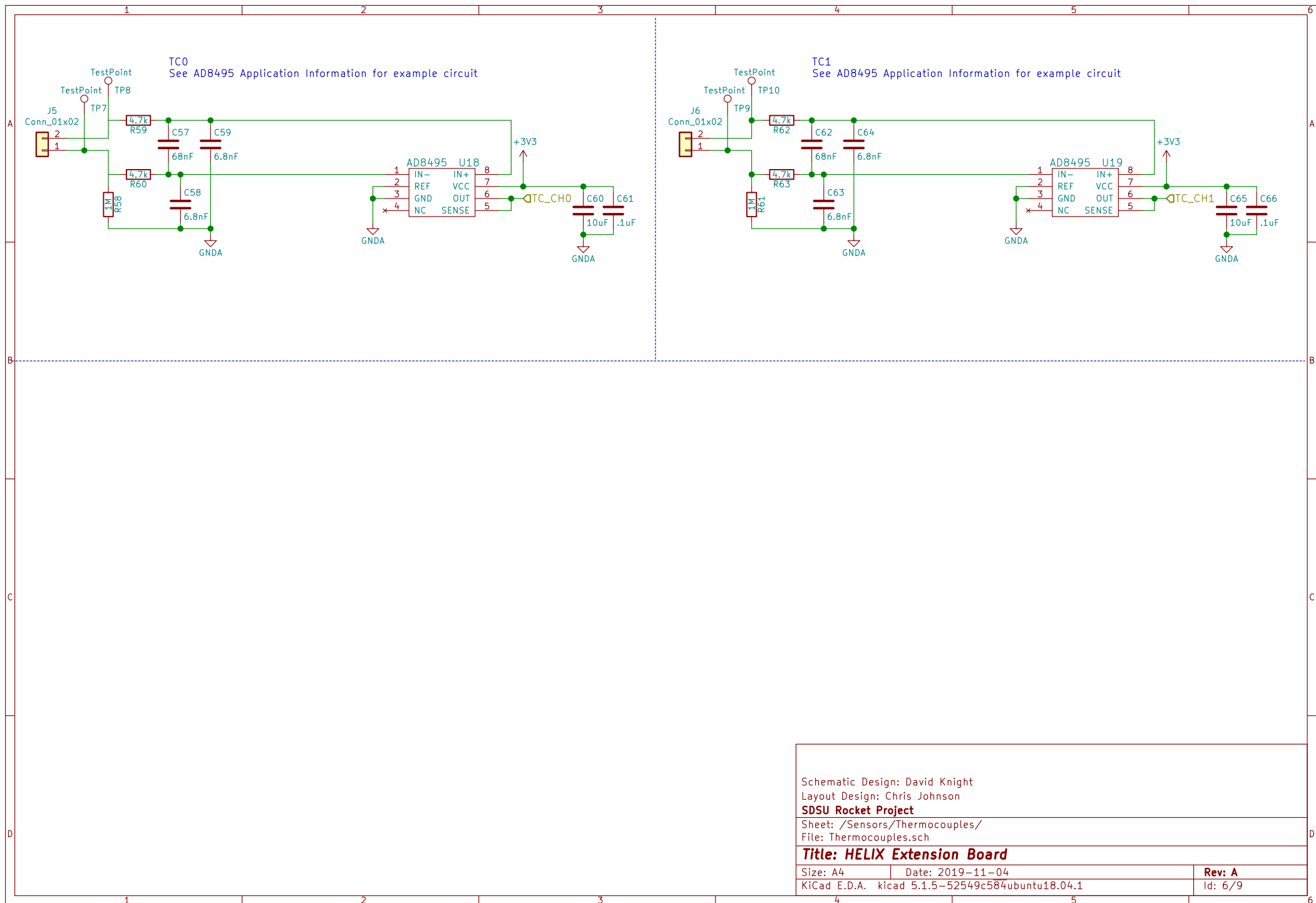
13 AIN1 X
3 AIN2 Y
+3V3
7 GND Z
GND A

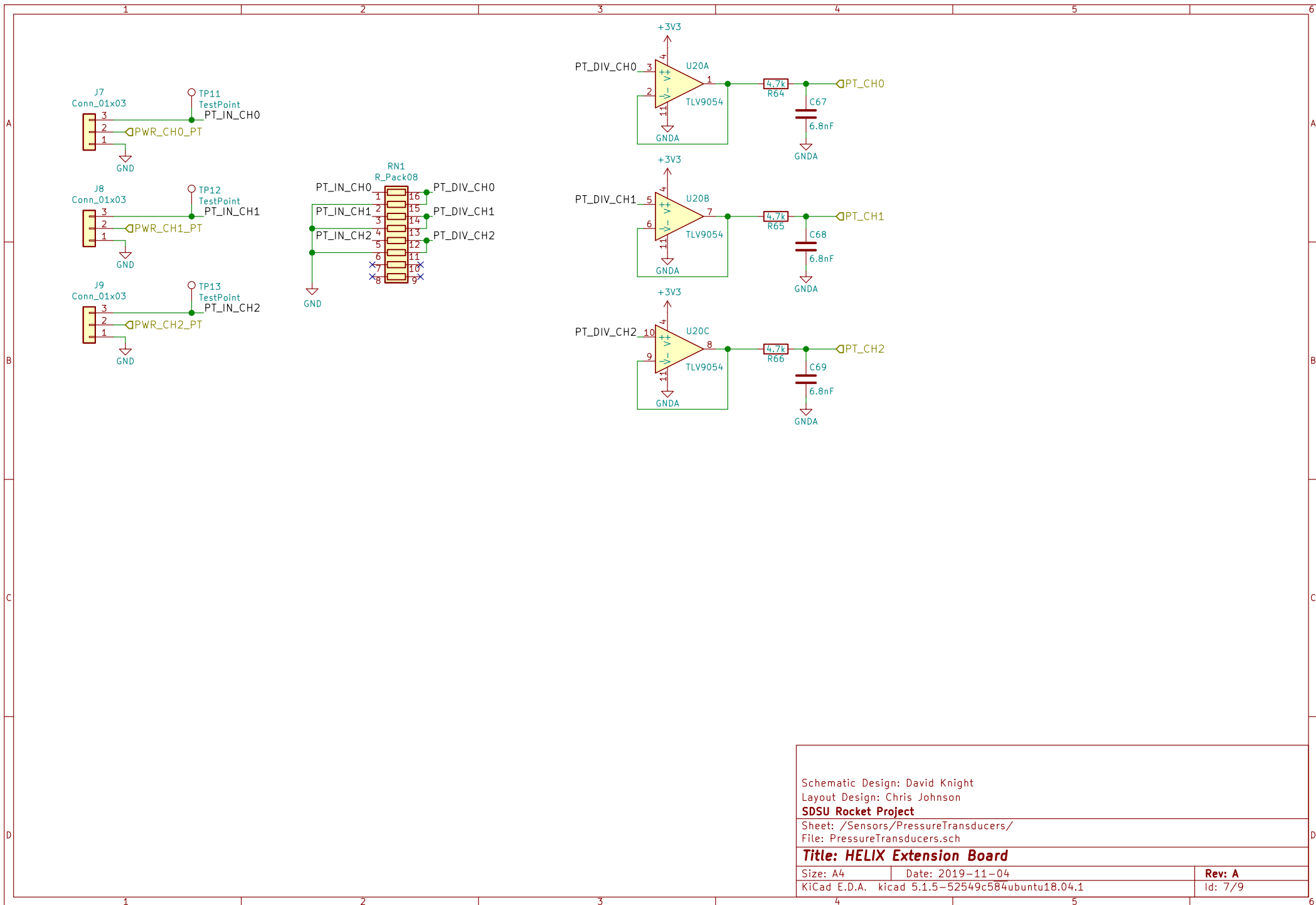
C36
C38
10uF
.1uF



Id: 4/9







Schematic Design: David Knight

Layout Design: Chris Johnson

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Sheet: /Sensors/PressureTransducers/

File: PressureTransducers.sch

Title: HELIX Extension Board

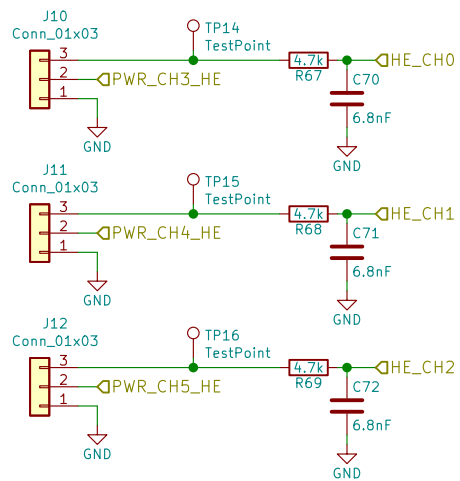
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Date: 2019-11-04

KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Rev: A

Id: 7/9



Schematic Design: David Knight

Layout Design: Chris Johnson

SDSU Rocket Project

Sheet: /Sensors/HallEffect/

File: HallEffect.sch

Title: HELIX Extension Board

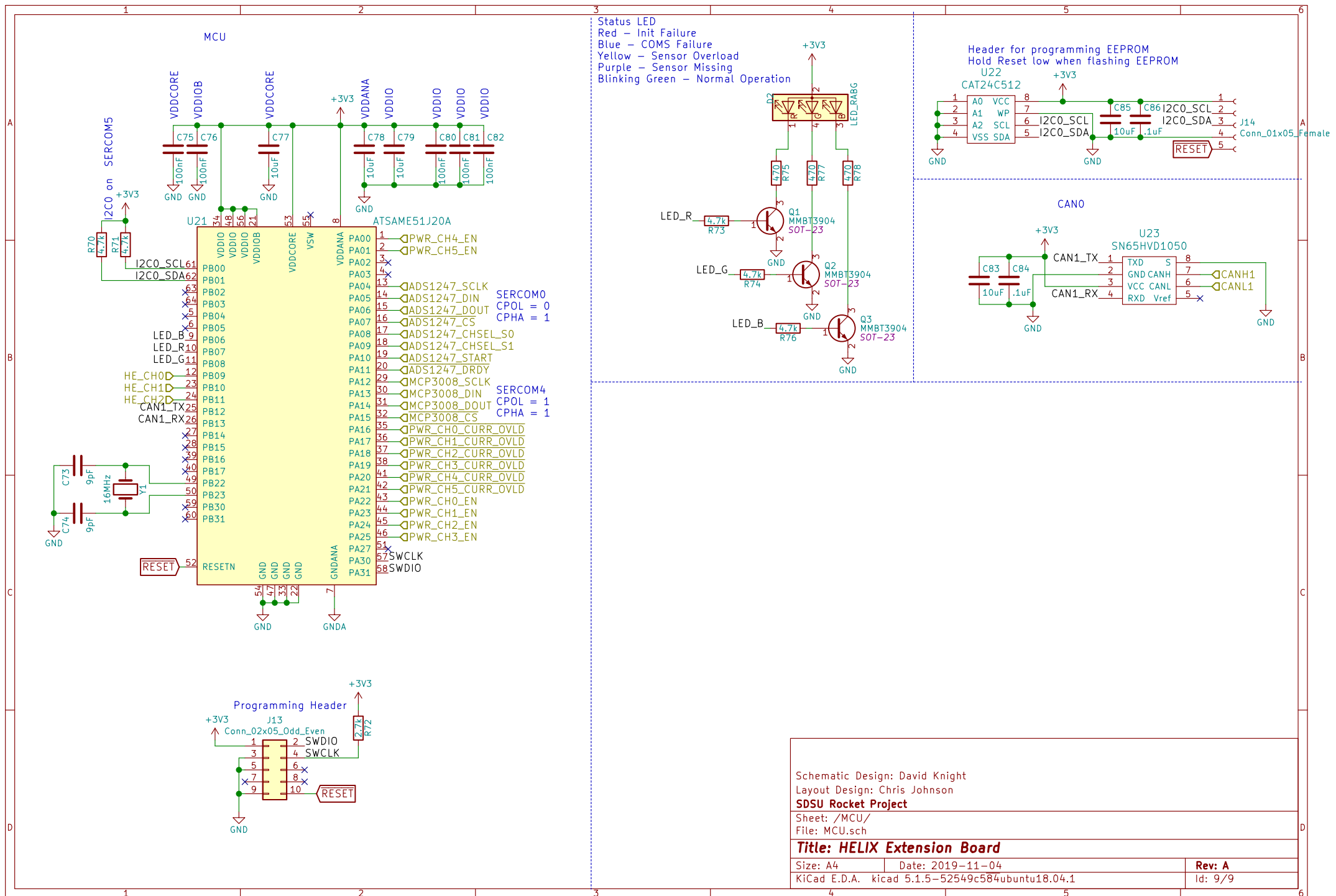
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Date: 2019-11-04

Rev: A

KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Id: 8/9



Schematic Design: David Knight

Layout Design: Chris Johnson

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Sheet: /MCU/

File: MCU.sch

Title: HELIX Extension Board

Size: A4 Date: 2019-11-04

KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Rev: A

Id: 9/9