

# List of Schematic Sheets

Sheet: Microcontroller



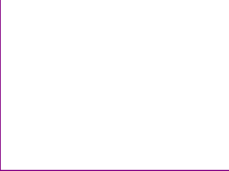
File: mcu.sch

Sheet: Display



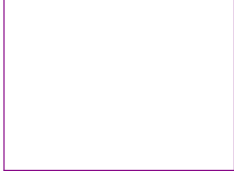
File: lcd.sch

Sheet: Onboard Peripherals



File: onboard.sch

Sheet: IO Peripherals



File: io.sch

Sheet: Power Supply



File: psu.sch

Sheet: Temporary Debugging

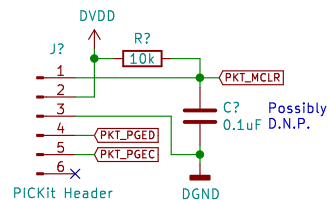


File: debug.sch

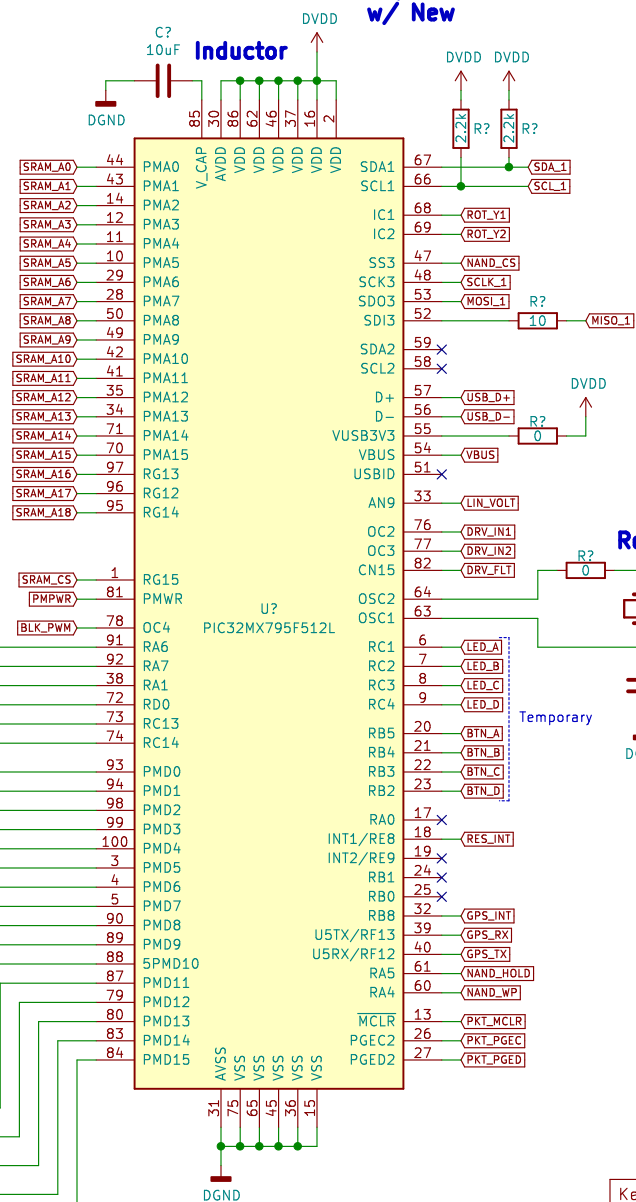
- List of tasks:
- Pick all caps and inductors
  - Shorten symbol leads
  - Fiducials
  - Move ground pin to sides
  - Test points
  - Delete 2 btns and 2 leds
  - Consistant blue text labels

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University of Idaho		
Sheet: /		
File: croptop_rev1.sch		
Title: CropTop		
Size: USLetter	Date: 2018-11-20	Rev: Revision 8
KiCad E.D.A. kicad (5.0.1)-3		Id: 1/7

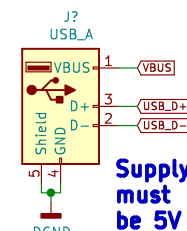
## PICKit3 Header



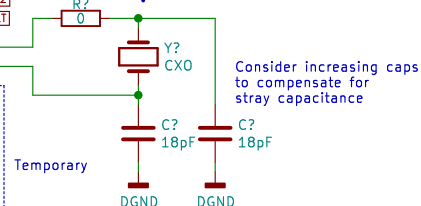
## PIC32 Microcontroller



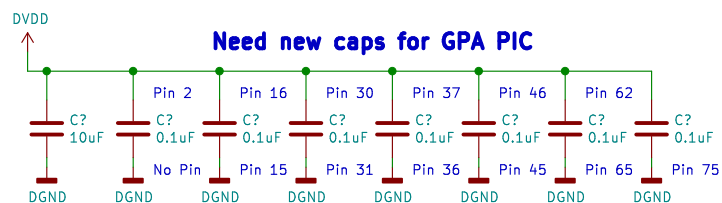
## Peripheral USB Port



## Replace



## Need new caps for GPA PIC



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Sheet: /Microcontroller/  
File: mcu.sch

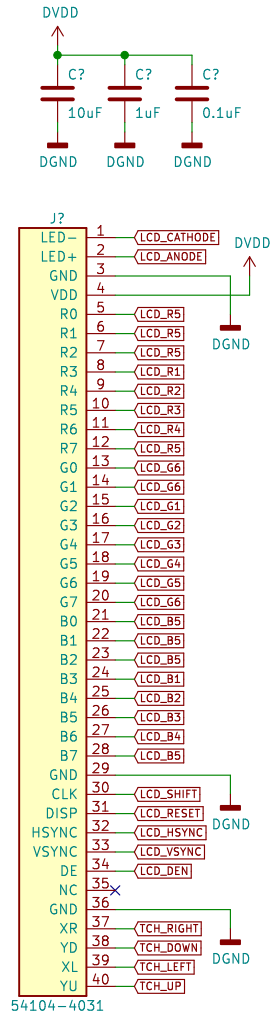
Title: CropTop

Size: USLetter Date: 2018-11-20  
KiCad E.D.A. kicad (5.0.1)-3

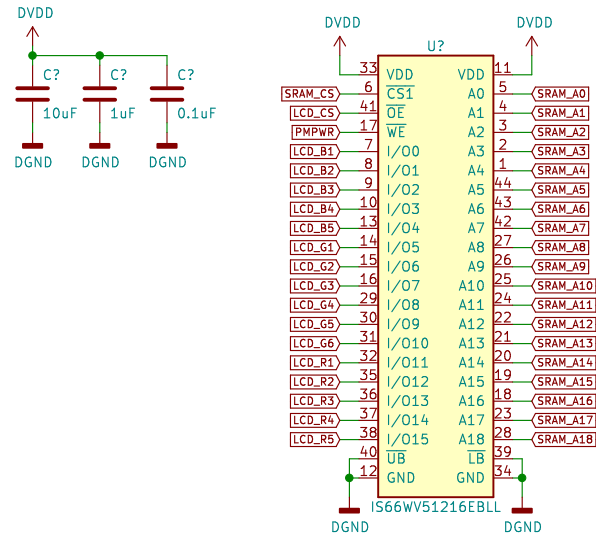
Rev: Revision 8  
Id: 2/7



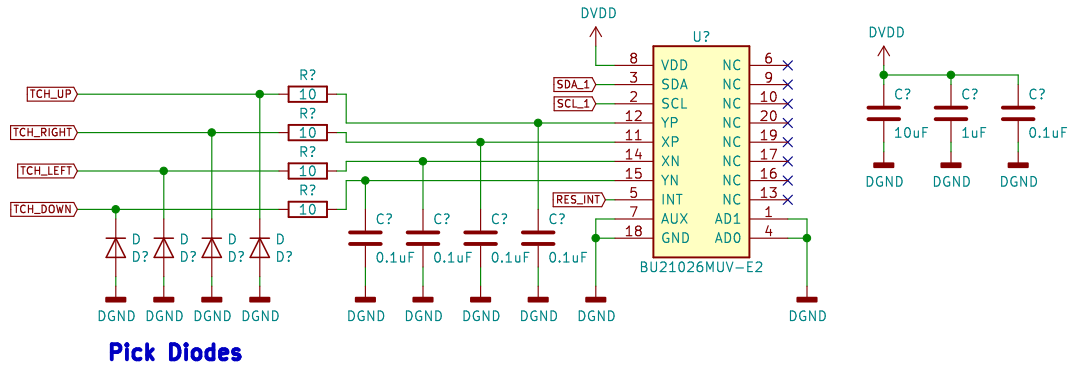
## TFT LCD Header



## Asynchronous SRAM



## Resistive Touch Driver



## Pick Diodes

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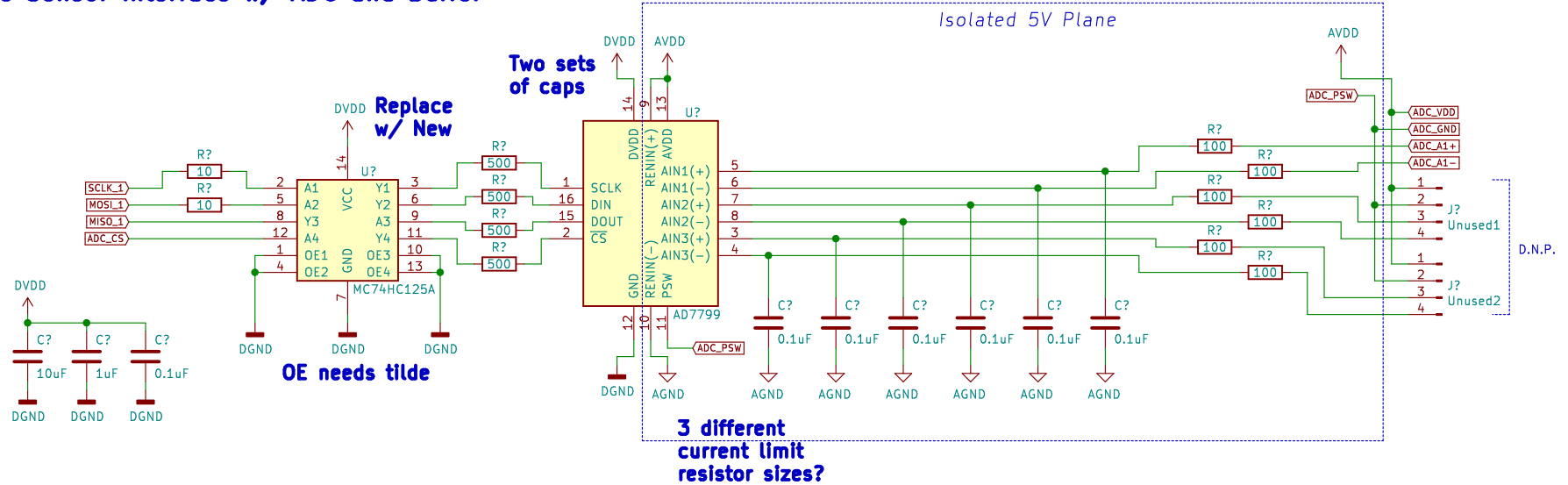
Sheet: /Display/  
File: lcd.sch

**Title: CropTop**

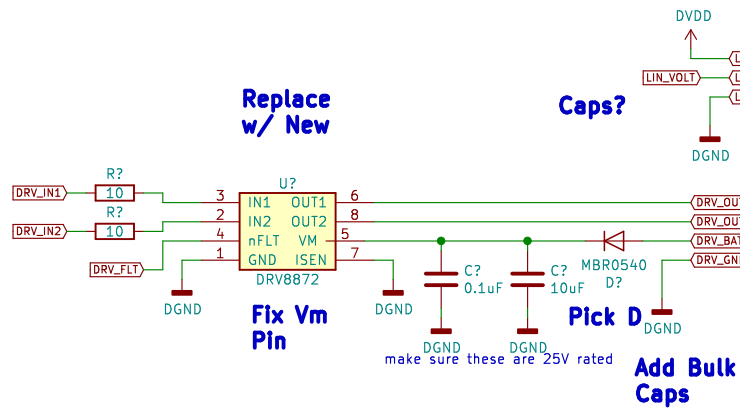
Size: USLetter Date: 2018-11-20  
KiCad E.D.A. kicad (5.0.1)-3

**Rev: Revision 8**  
Id: 4/7

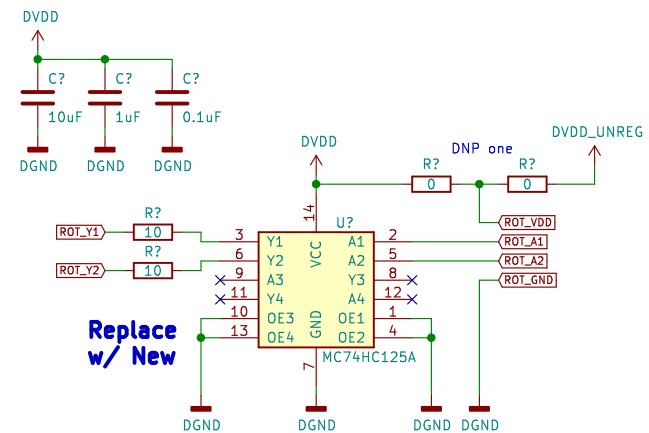
## Force Sensor Interface w/ ADC and Buffer



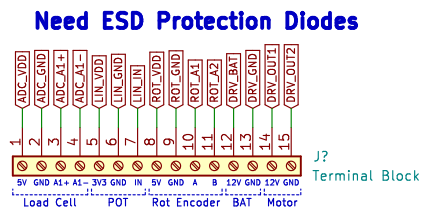
## Linear Actuator Interface w/ DC Motor Driver



## Rotary Encoder Interface w/ Buffer



## Peripheral Terminal Block



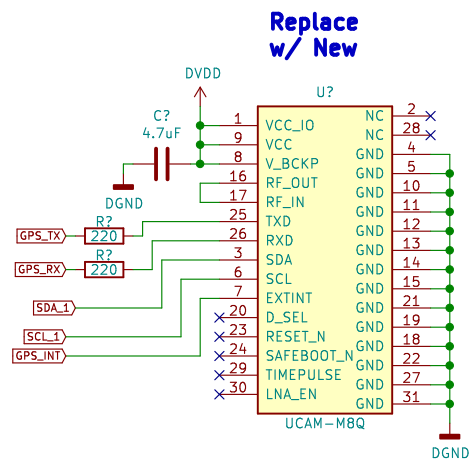
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**University of Idaho**  
 Sheet: /IO Peripherals/  
 File: io.sch

**Title:** CropTop

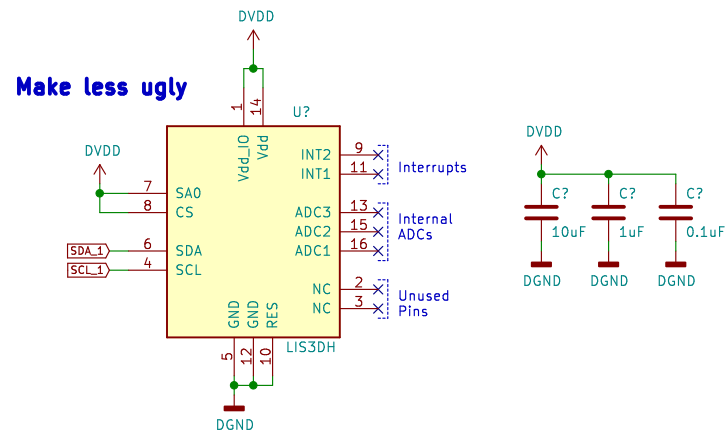
Size: USLetter	Date: 2018-11-20
KiCad E.D.A. kicad (5.0.1)-3	

**Rev: Revision 8**  
Id: 5/7

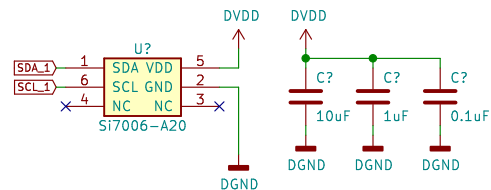
## GPS Antenna and Reciever



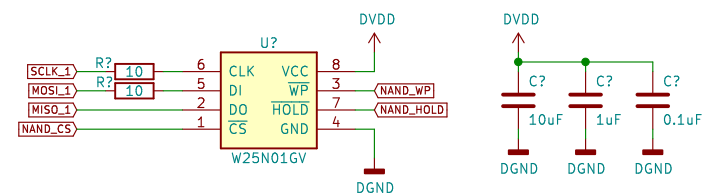
## Three Axis Accelerometer



## Temperature & Humidity Sensor



## NAND Flash Memory



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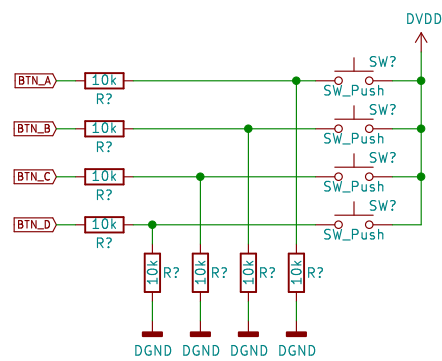
Sheet: /Onboard Peripherals/  
File: onboard.sch

**Title: CropTop**

Size: USLetter Date: 2018-11-20  
KiCad E.D.A. kicad (5.0.1)-3

**Rev: Revision 8**  
Id: 6/7

Debugging Push Buttons



Debugging LEDs

