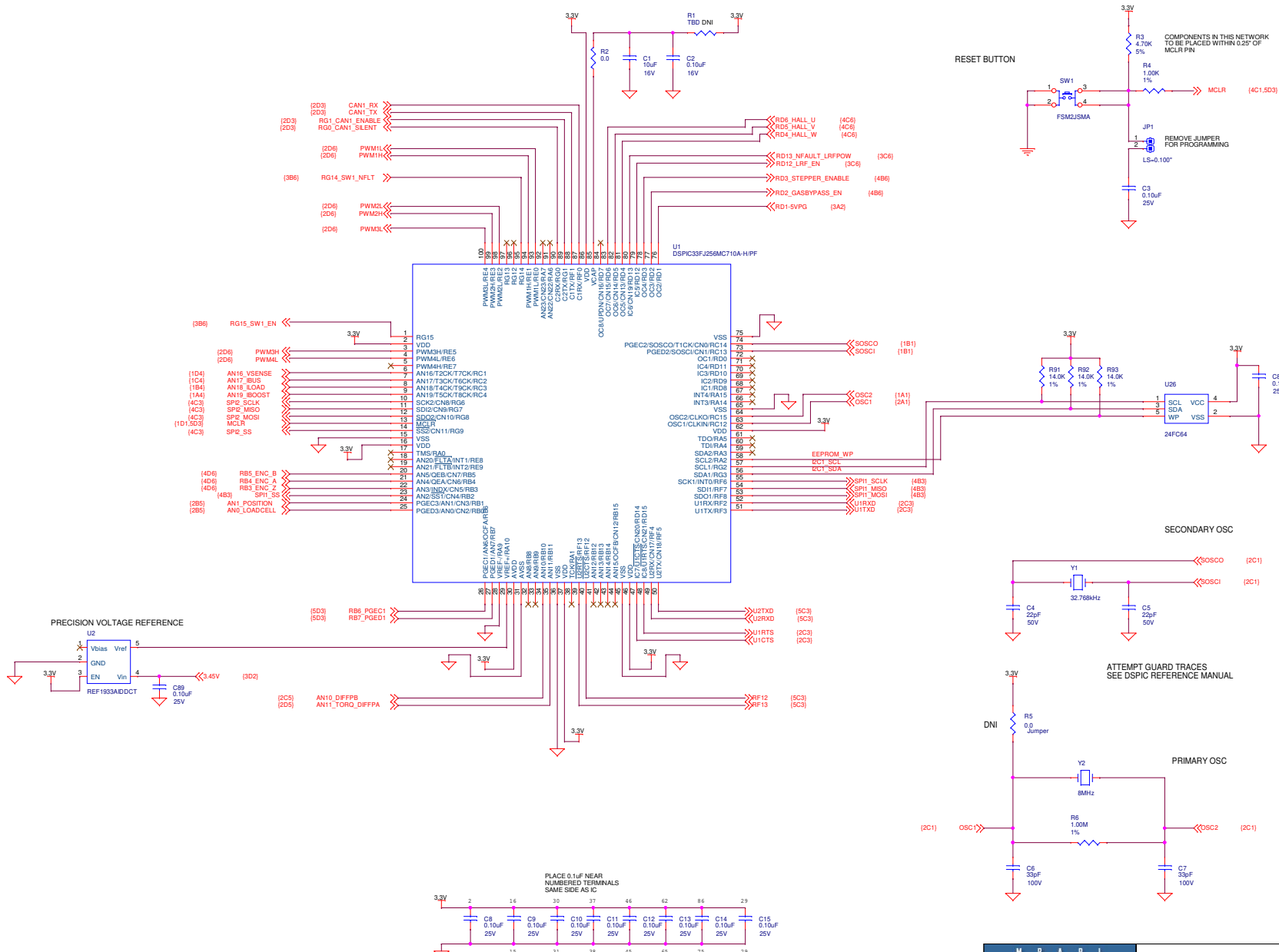
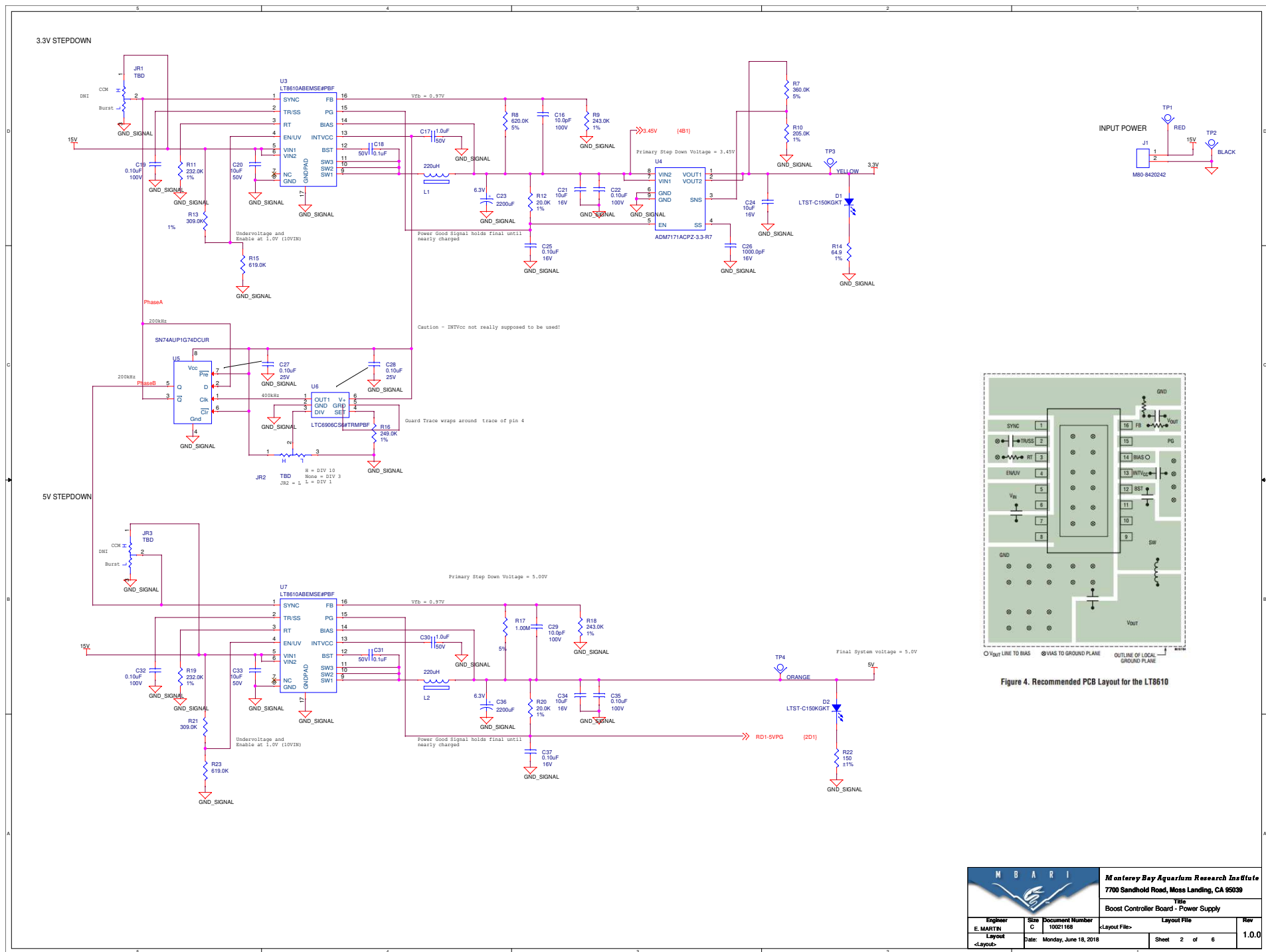
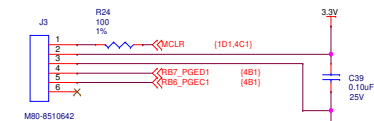




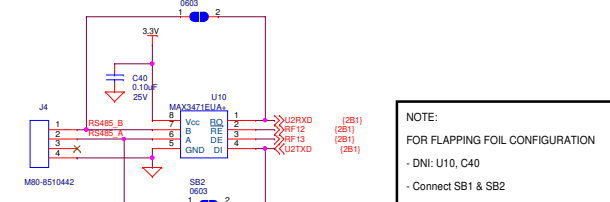
		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Boost Controller Board - Microcontroller	
Engineer E. MARTIN	Size C	Document Number 10021168	Layout File <Layout File>
Layout <Layout>	Date Monday, June 18, 2018	Sheet 1 of 6	Rev 2.0.0



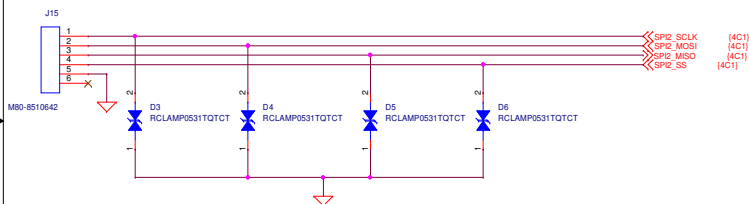
MPLAB ICD CONNECTOR



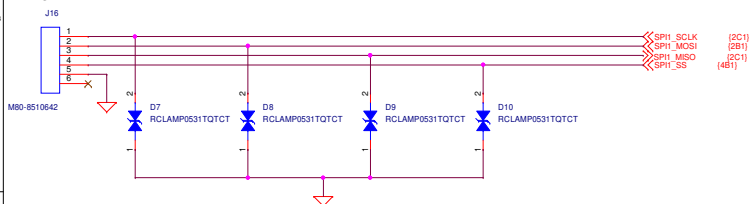
STEPPER MOTOR RS485



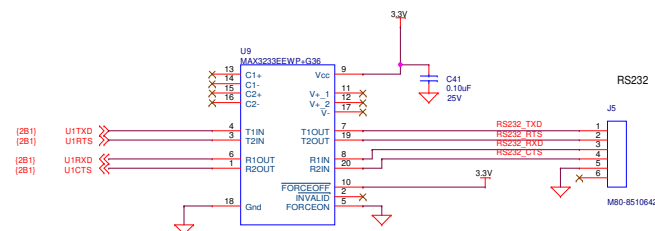
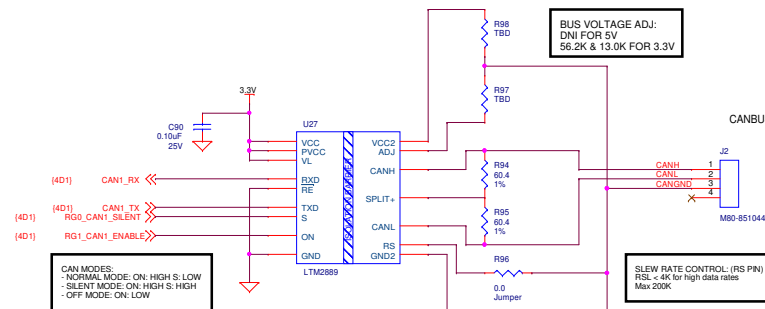
SPI



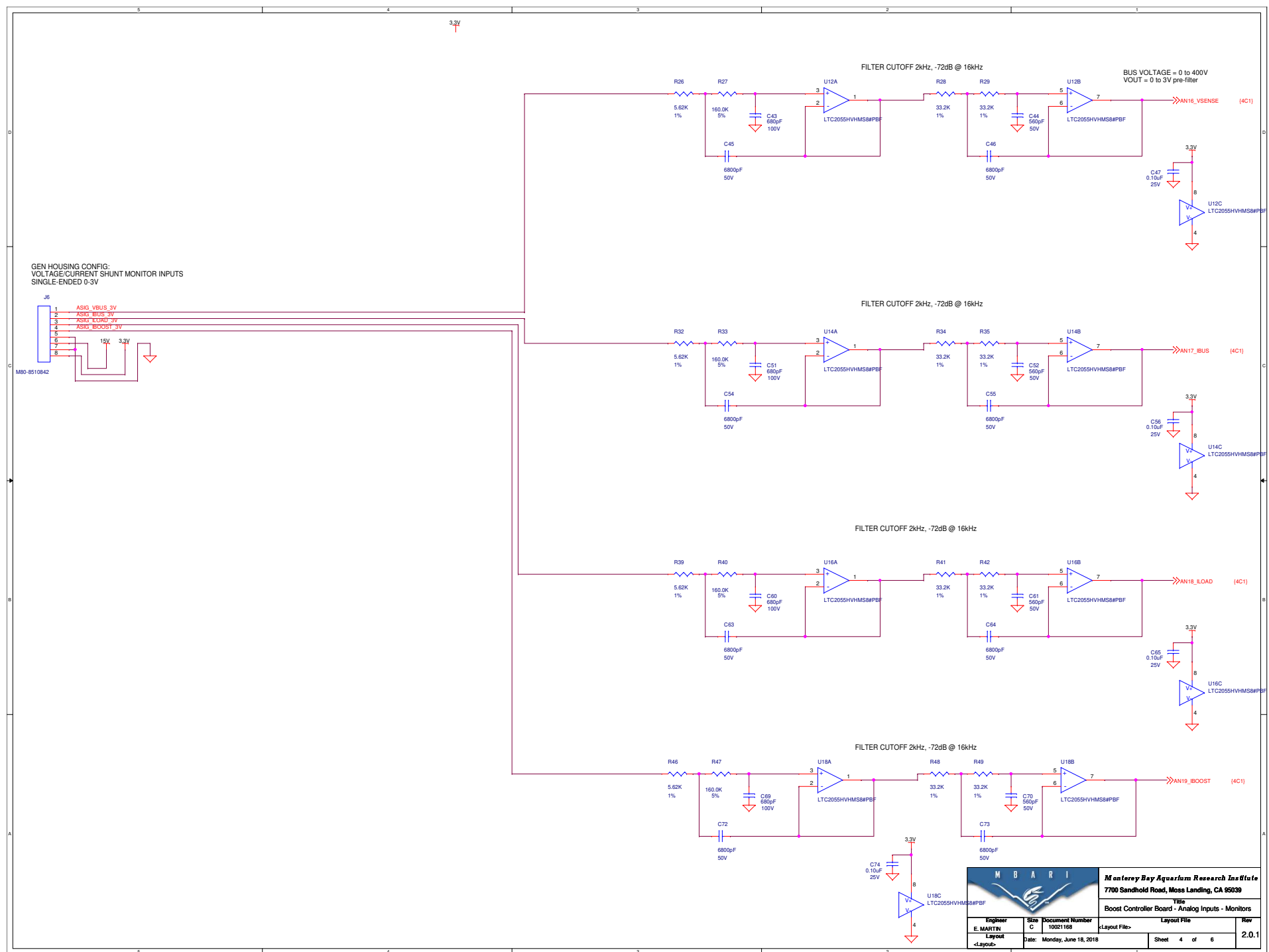
SPI



change linked part

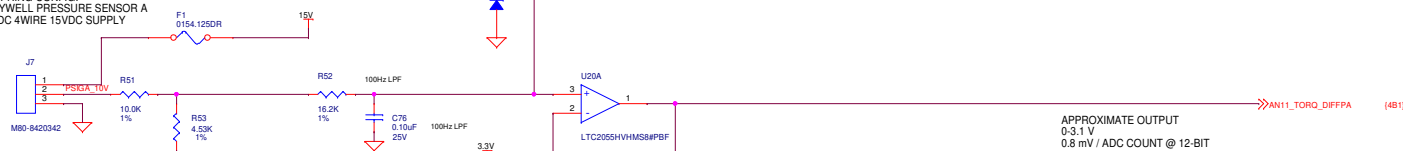


		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
Engineer E. MARTIN		Size C	
Document Number 10021168		Layout File <Layout File>	
Date Monday, June 18, 2018		Sheet 3 of 6	
Rev 2.0.0		Rev 2.0.0	

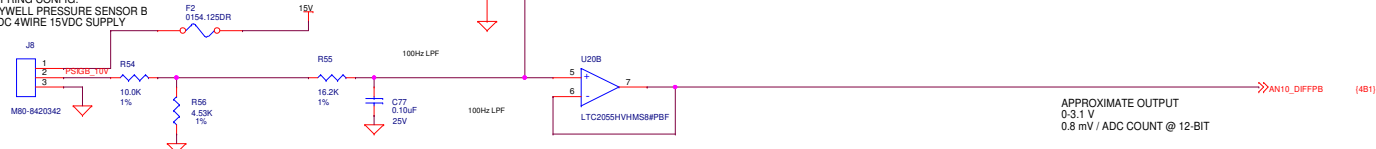


GEN HOUSING CONFIG:
OMEGA DIFF PRESSURE / TORQUE SENSOR
OUTPUT 0-10VDC SUPPLY 15VDC
DO NOT DIRECTLY ATTACH TORQUE SENSOR USE REDLION

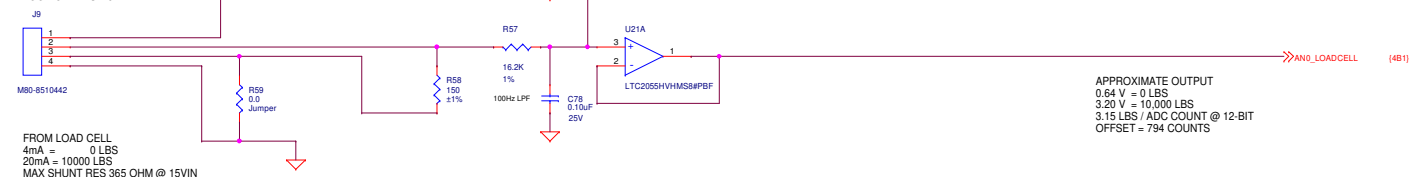
GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR A
0-10VDC 4WIRE 15VDC SUPPLY



GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR B
0-10VDC 4WIRE 15VDC SUPPLY

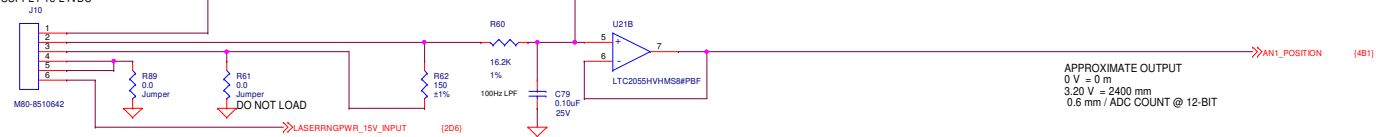


GAS SPRING CONFIG:
LOAD CELL ICA5
OUTPUT 4-20mA 2 WIRE
SUPPLY 7.5-28VDC
LOOP ON PINS 1 & 2

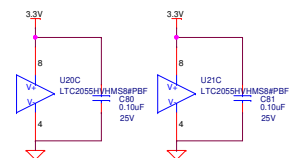


FROM LOAD CELL
4mA = 0 LBS
20mA = 10000 LBS
MAX SHUNT RES 365 OHM @ 15VIN

GAS SPRING CONFIG:
LASER RANGE FINDER MRL-ML1
OUTPUT 0-20mA 4-WIRE
SUPPLY 15-24VDC



FROM LASER RANGE FINDER
(PRECONFIGURED MAX 2.4m)
0 mA = 0 m
20mA = 2.4 m



		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Boost Controller Board - Analog Inputs - Sensors	
Engineer E. MARTIN	Size C	Document Number 10021168	Layout File <Layout File>
Layout <Layout>	Date Monday, June 18, 2018	Sheet 5 of 6	Rev 2.0.0

