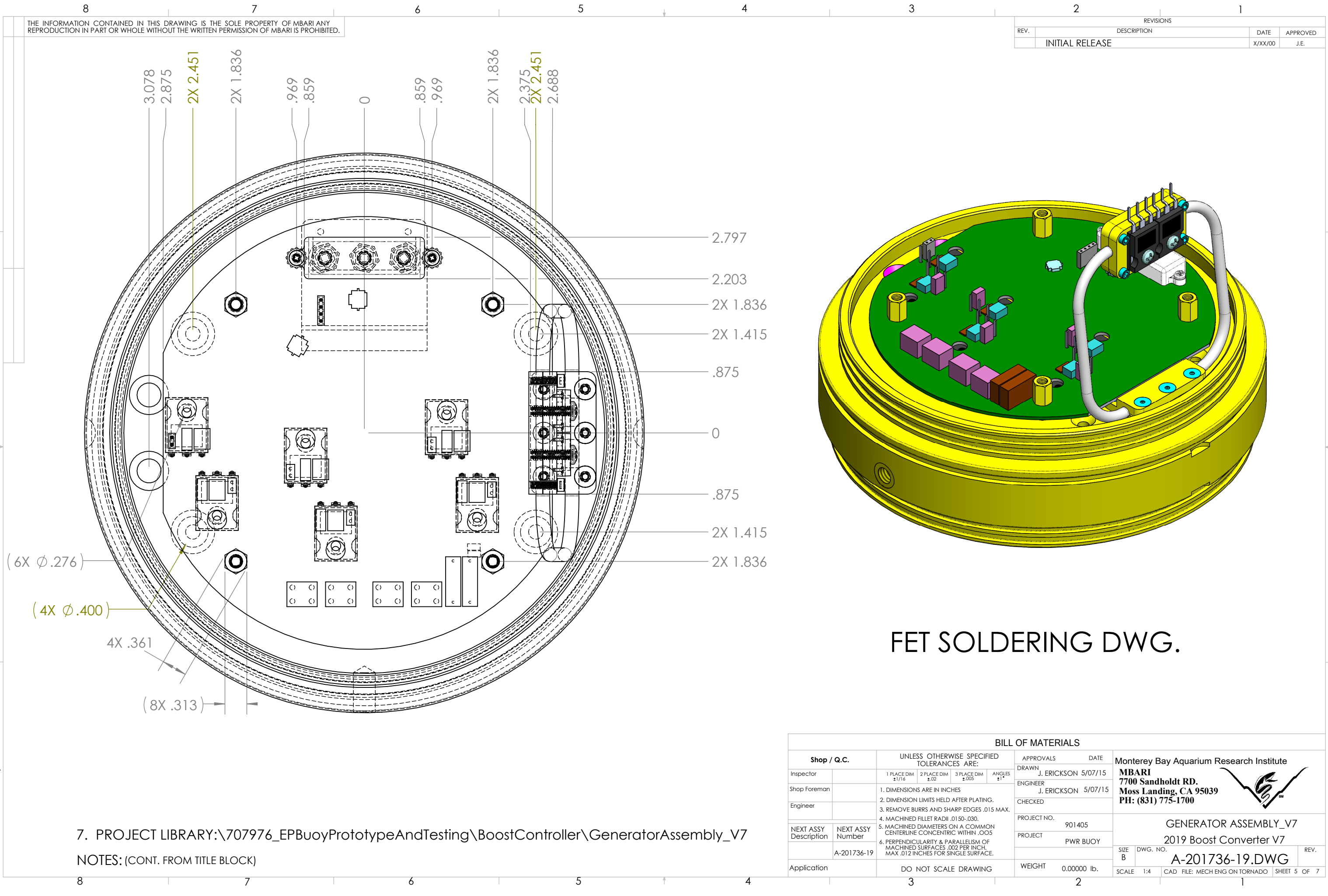




THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

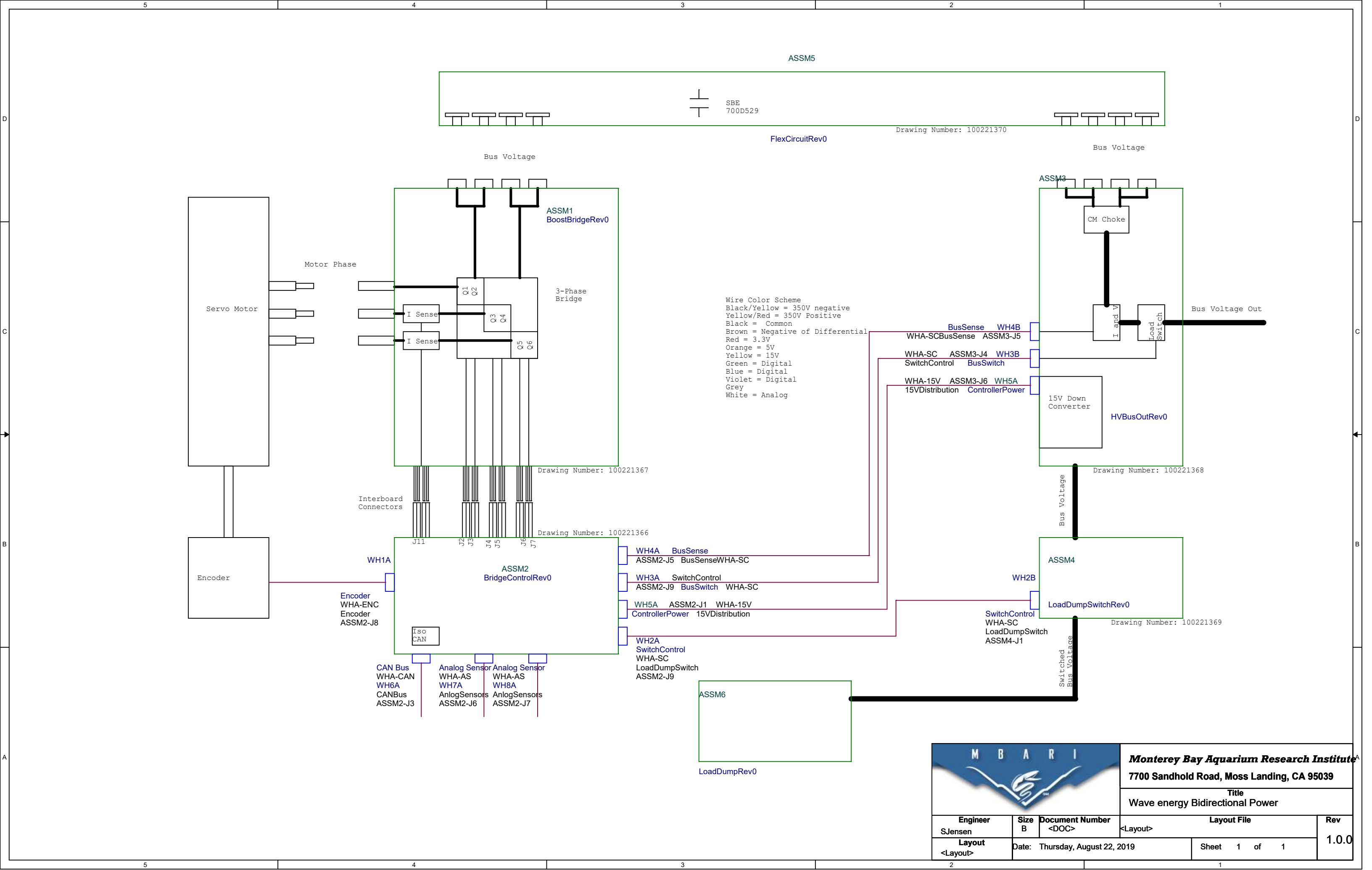
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

FET SOLDERING DWG.

7. PROJECT LIBRARY:\707976_EPBuoyPrototypeAndTesting\BoostController\GeneratorAssembly_V7

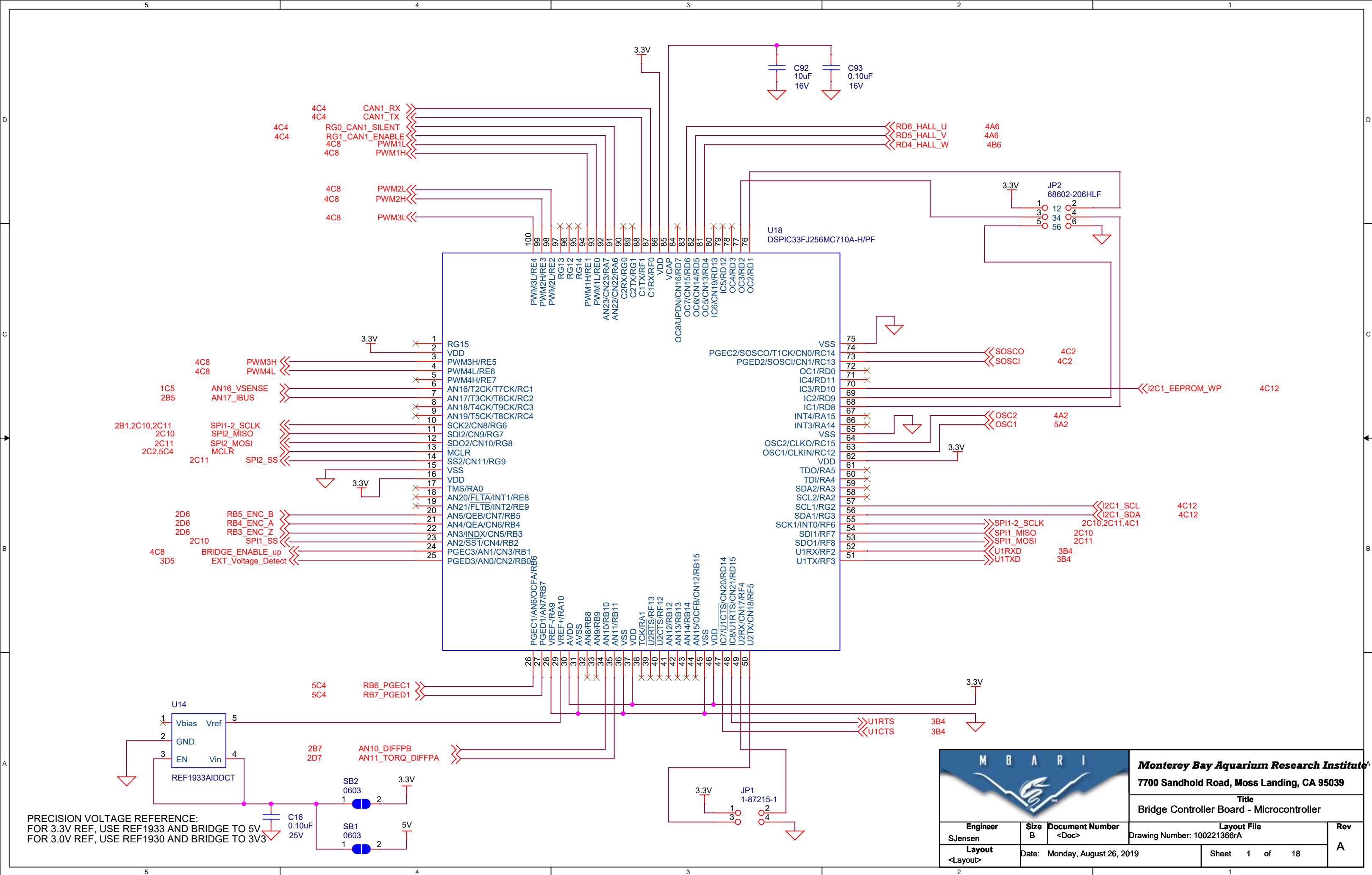
NOTES: (CONT. FROM TITLE BLOCK)

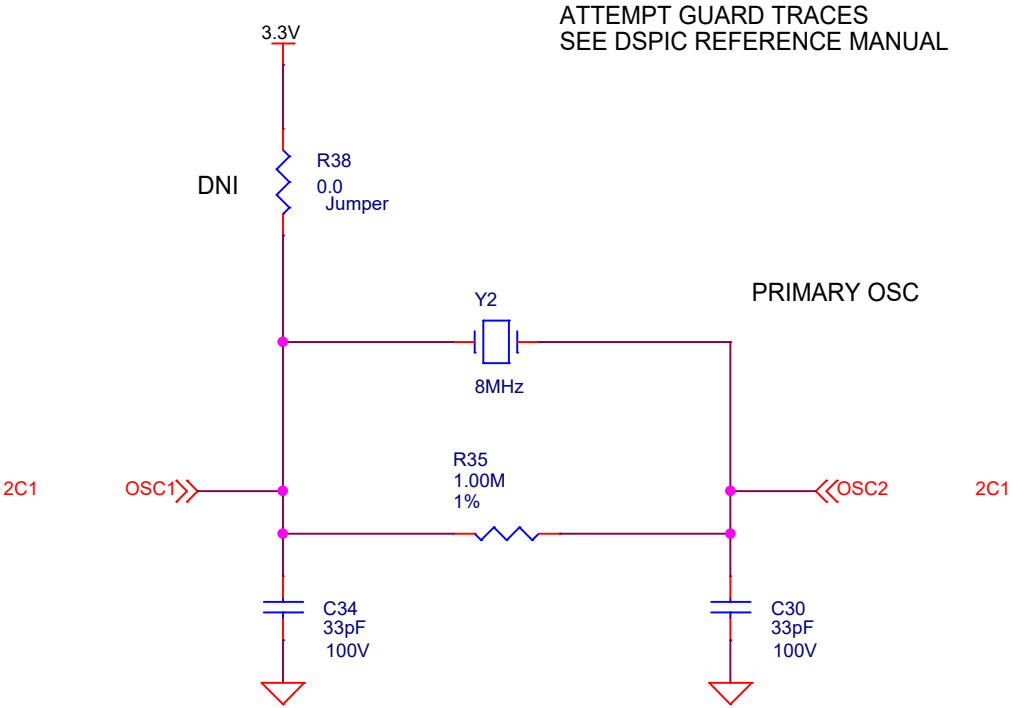
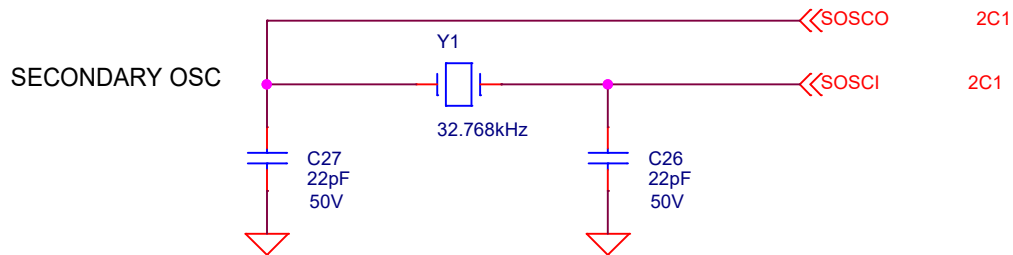
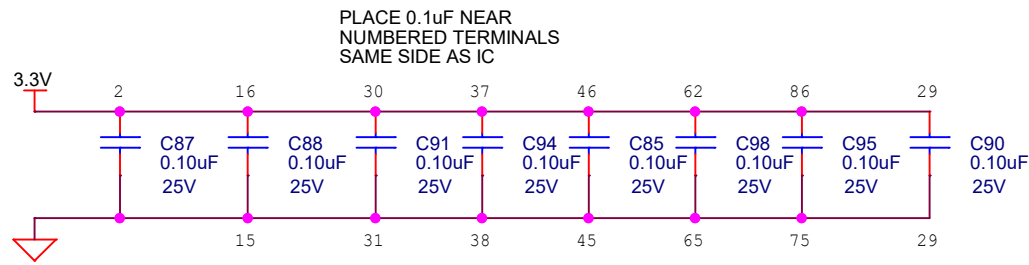
BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°
Engineer		1. DIMENSIONS ARE IN INCHES	
		2. DIMENSION LIMITS HELD AFTER PLATING.	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.	
		4. MACHINED FILLET RADII .0150-.030.	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	
	A-201736-19	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.	
Application		DO NOT SCALE DRAWING	
APPROVALS		DATE	
DRAWN		J. ERICKSON	5/07/15
ENGINEER		J. ERICKSON	5/07/15
CHECKED			
PROJECT NO.		901405	
PROJECT		PWR BUOY	
WEIGHT		0.00000 lb.	
Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
GENERATOR ASSEMBLY_V7 2019 Boost Converter V7			
SIZE B		DWG. NO.	REV.
SCALE 1:4		A-201736-19.DWG	
CAD FILE: MECH ENG ON TORNADO		SHEET 5 OF 7	



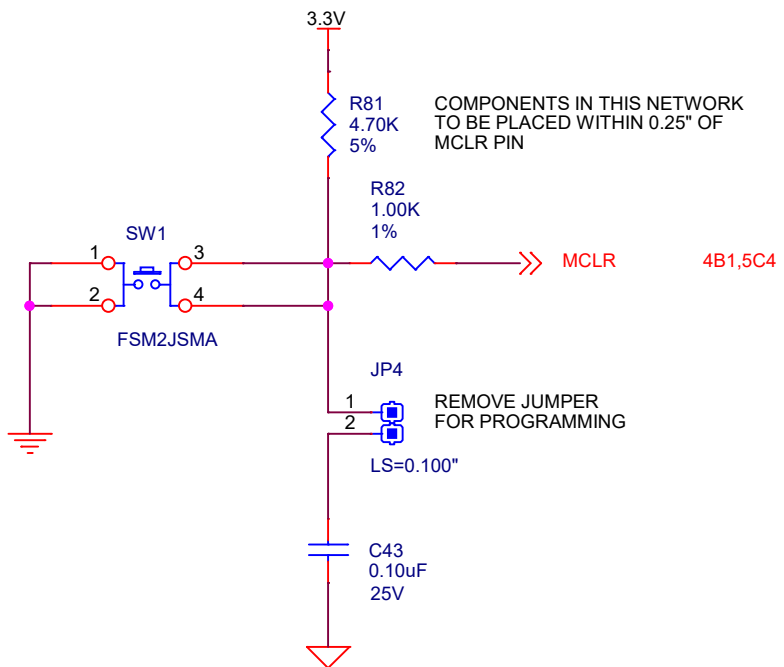
Wire Color Scheme
Black/Yellow = 350V negative
Yellow/Red = 350V Positive
Black = Common
Brown = Negative of Differential
Red = 3.3V
Orange = 5V
Yellow = 15V
Green = Digital
Blue = Digital
Violet = Digital
Grey = Digital
White = Analog

		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039		
		Title Wave energy Bidirectional Power		
Engineer SJensen	Size B	Document Number <DOC>	Layout File <Layout>	
Layout <Layout>	Date: Thursday, August 22, 2019		Sheet 1 of 1	Rev 1.0.0

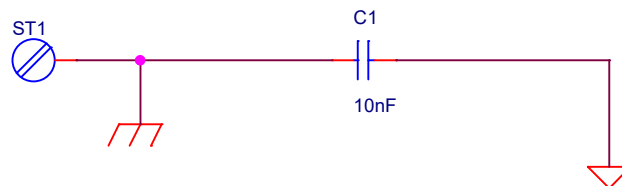
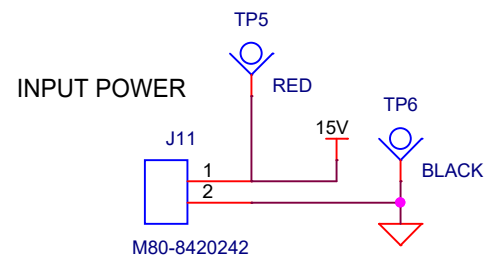
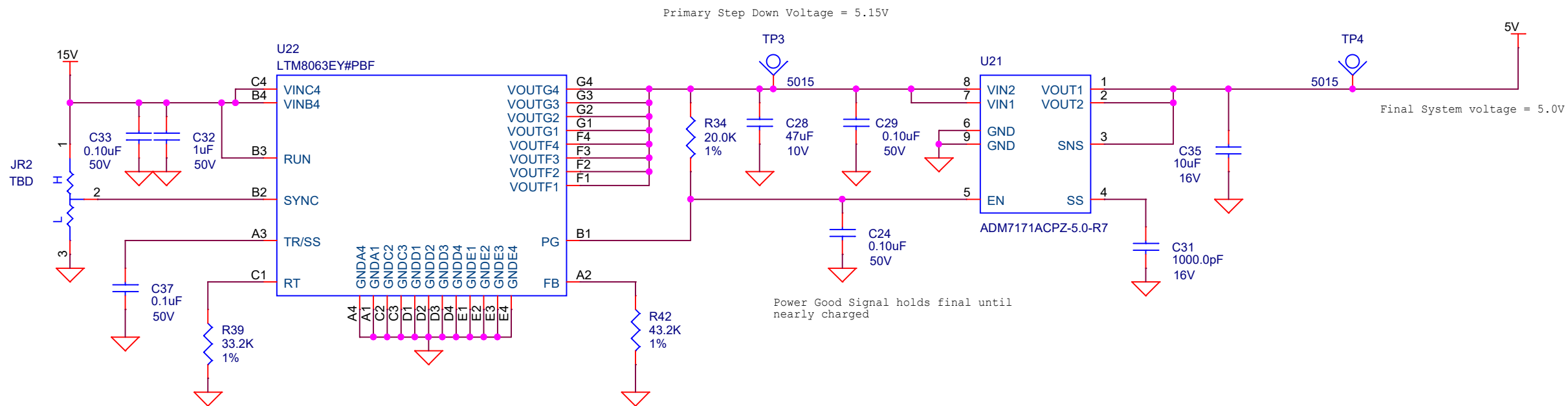
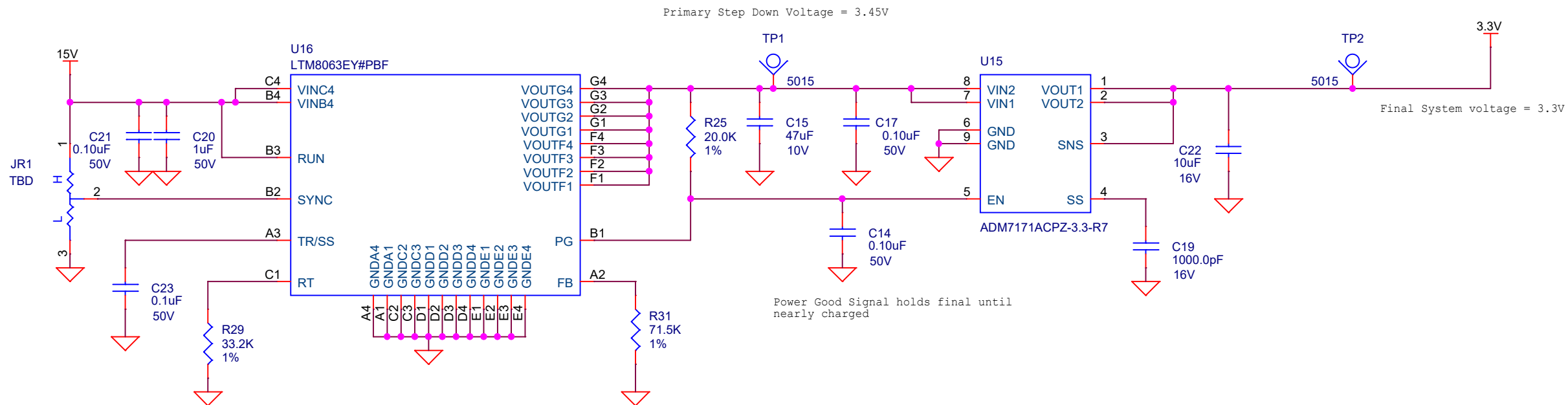




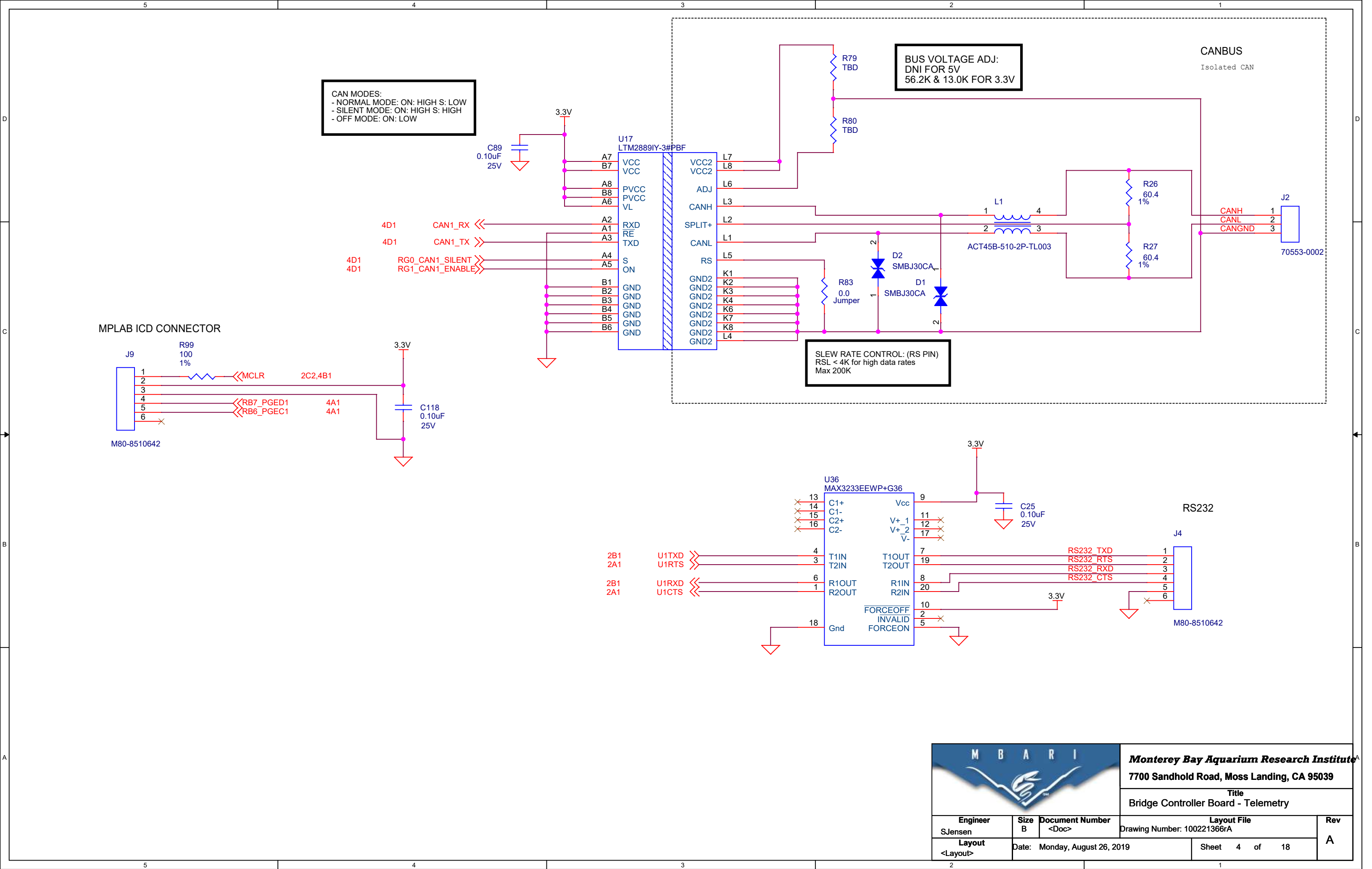
RESET BUTTON

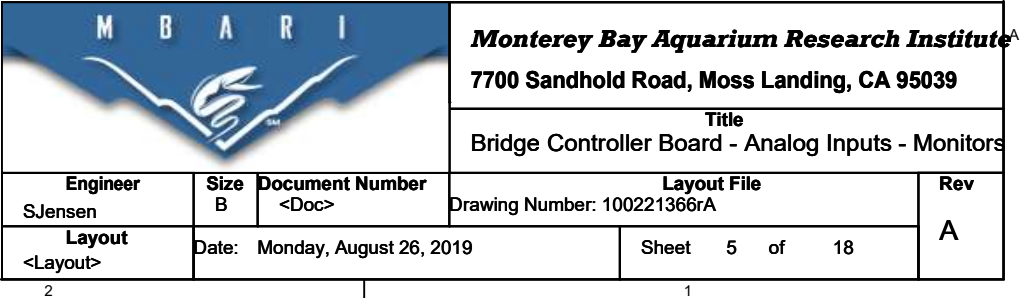


		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039		
		Title Bridge Controller Board - Microcontroller Support		
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA	Rev A
Layout <Layout>	Date: Monday, August 26, 2019		Sheet 2 of 18	

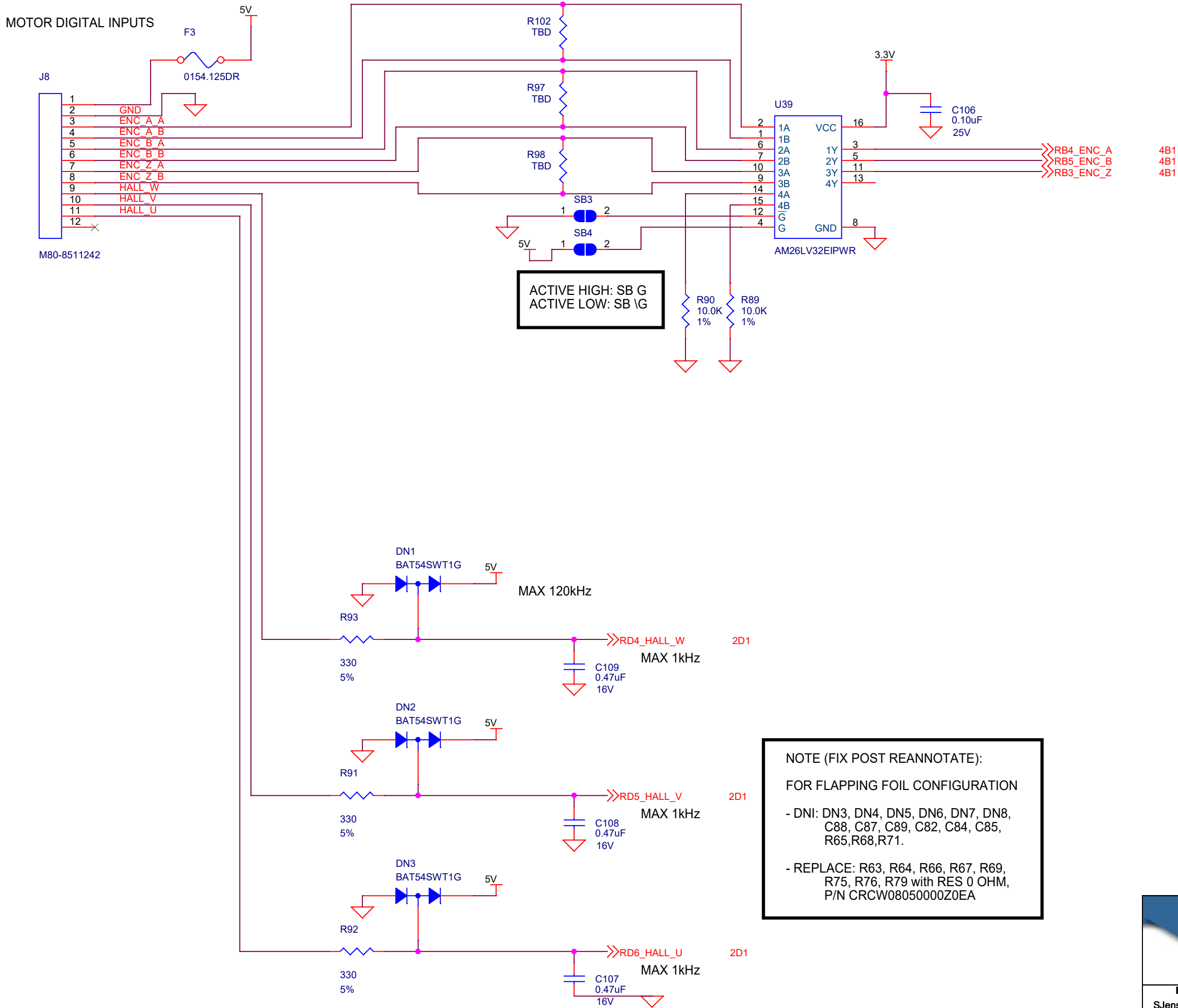


		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039		
		Title Bridge Controller Board - Power Supply		
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA	Rev A
Layout <Layout>	Date: Monday, August 26, 2019		Sheet 3 of 18	





MOTOR DIGITAL INPUTS

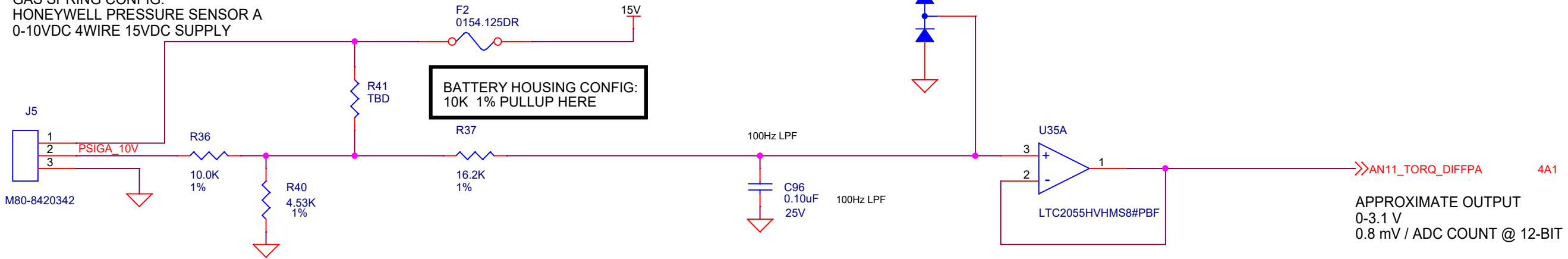


NOTE (FIX POST REANNOTATE):
FOR FLAPPING FOIL CONFIGURATION
- DNI: DN3, DN4, DN5, DN6, DN7, DN8, C88, C87, C89, C82, C84, C85, R65,R68,R71.
- REPLACE: R63, R64, R66, R67, R69, R75, R76, R79 with RES 0 OHM, P/N CRCW08050000Z0EA

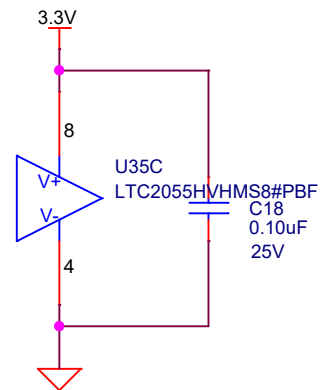
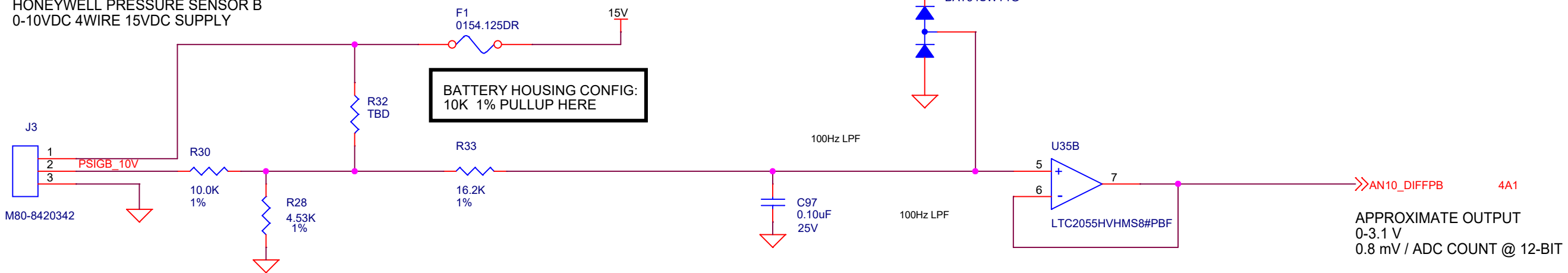
		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Bridge Controller Board - Digital Inputs	
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA
Layout <Layout>	Date: Monday, August 26, 2019	Sheet 6 of 18	Rev A

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

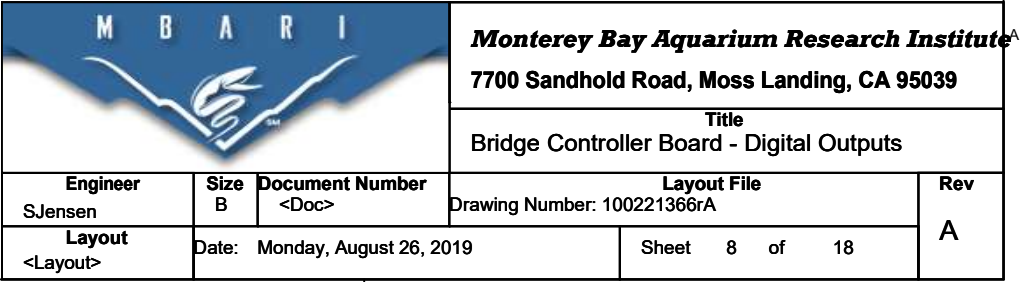
GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR A
0-10VDC 4WIRE 15VDC SUPPLY

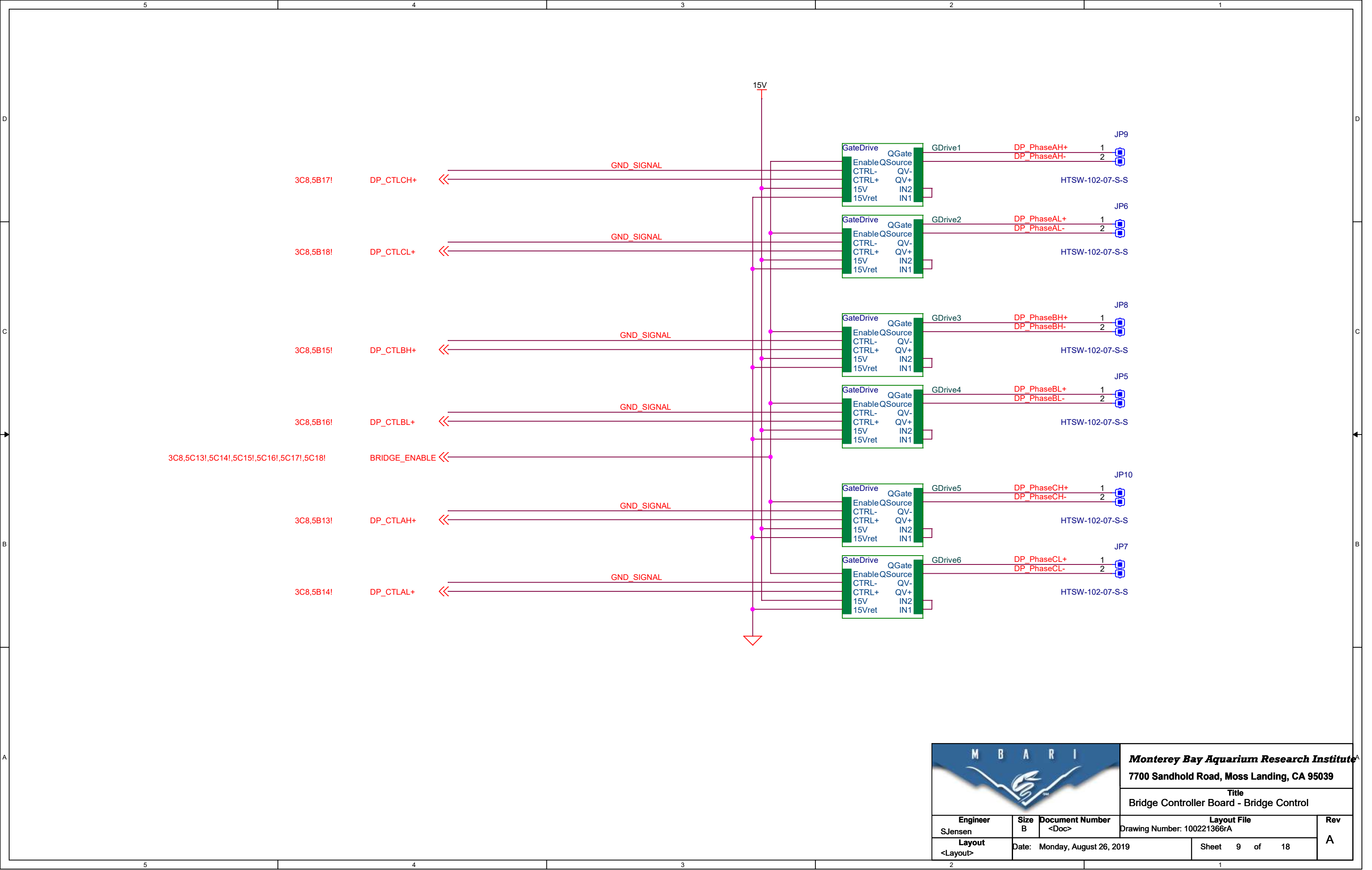


GAS SPRING CONFIG:
HONEYWELL PRESSURE SENSOR B
0-10VDC 4WIRE 15VDC SUPPLY

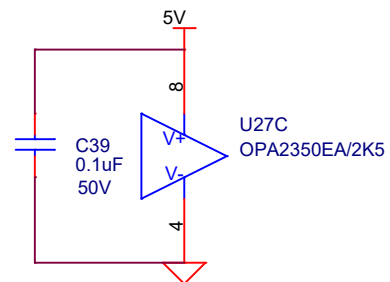
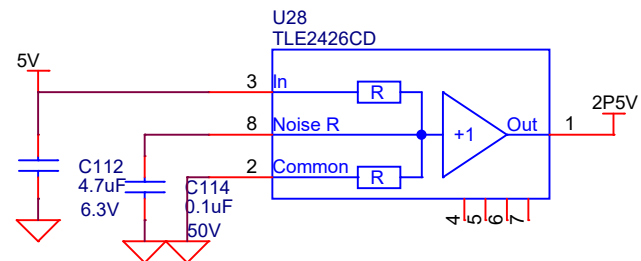
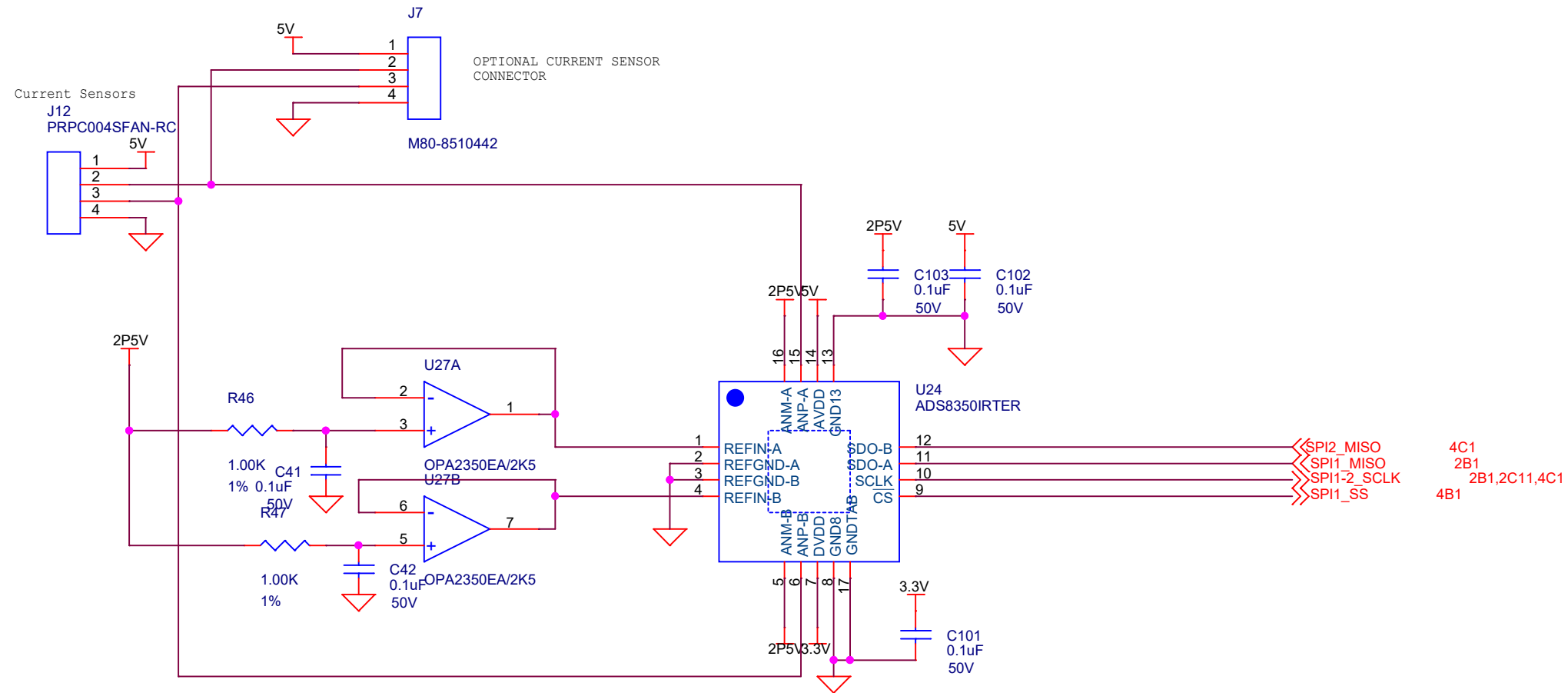


		Monterey Bay Aquarium Research Institute 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Bridge Controller Board - Analog Inputs - Sensors	
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA
Layout <Layout>	Date: Monday, August 26, 2019		Rev A

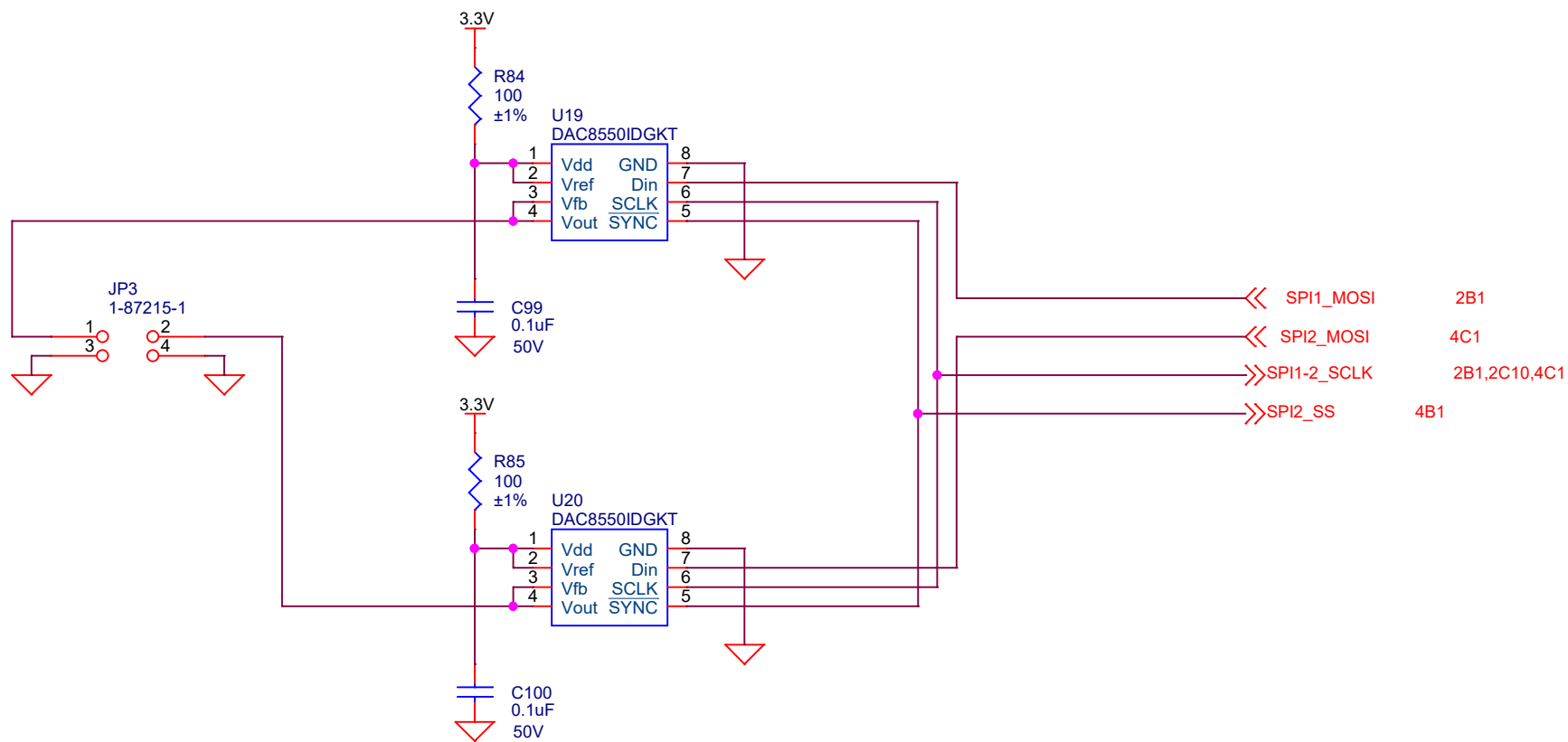




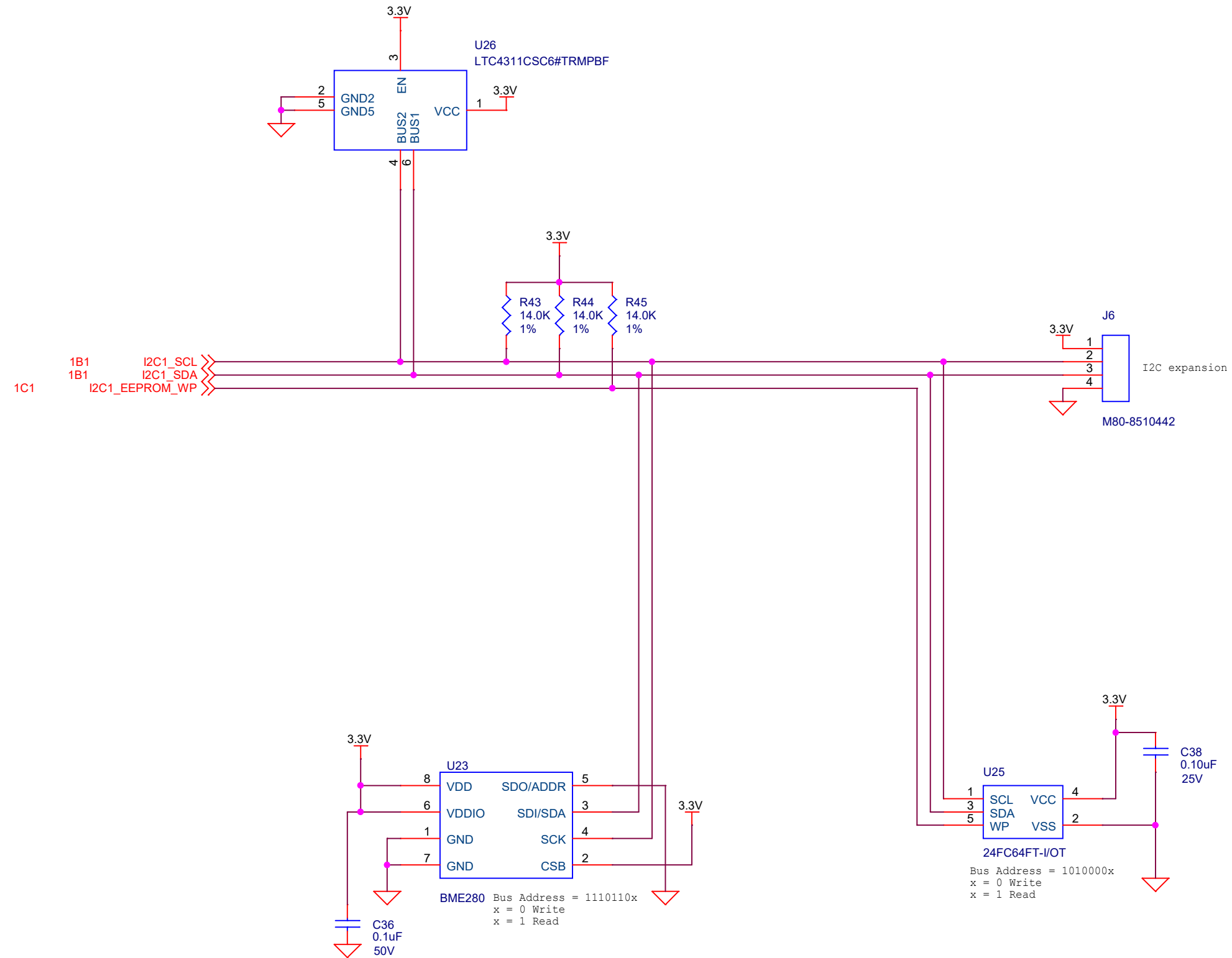
		Monterey Bay Aquarium Research Institute^A 7700 Sandhold Road, Moss Landing, CA 95039		
		Title Bridge Controller Board - Bridge Control		
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA	Rev A
Layout <Layout>	Date: Monday, August 26, 2019		Sheet 9 of 18	

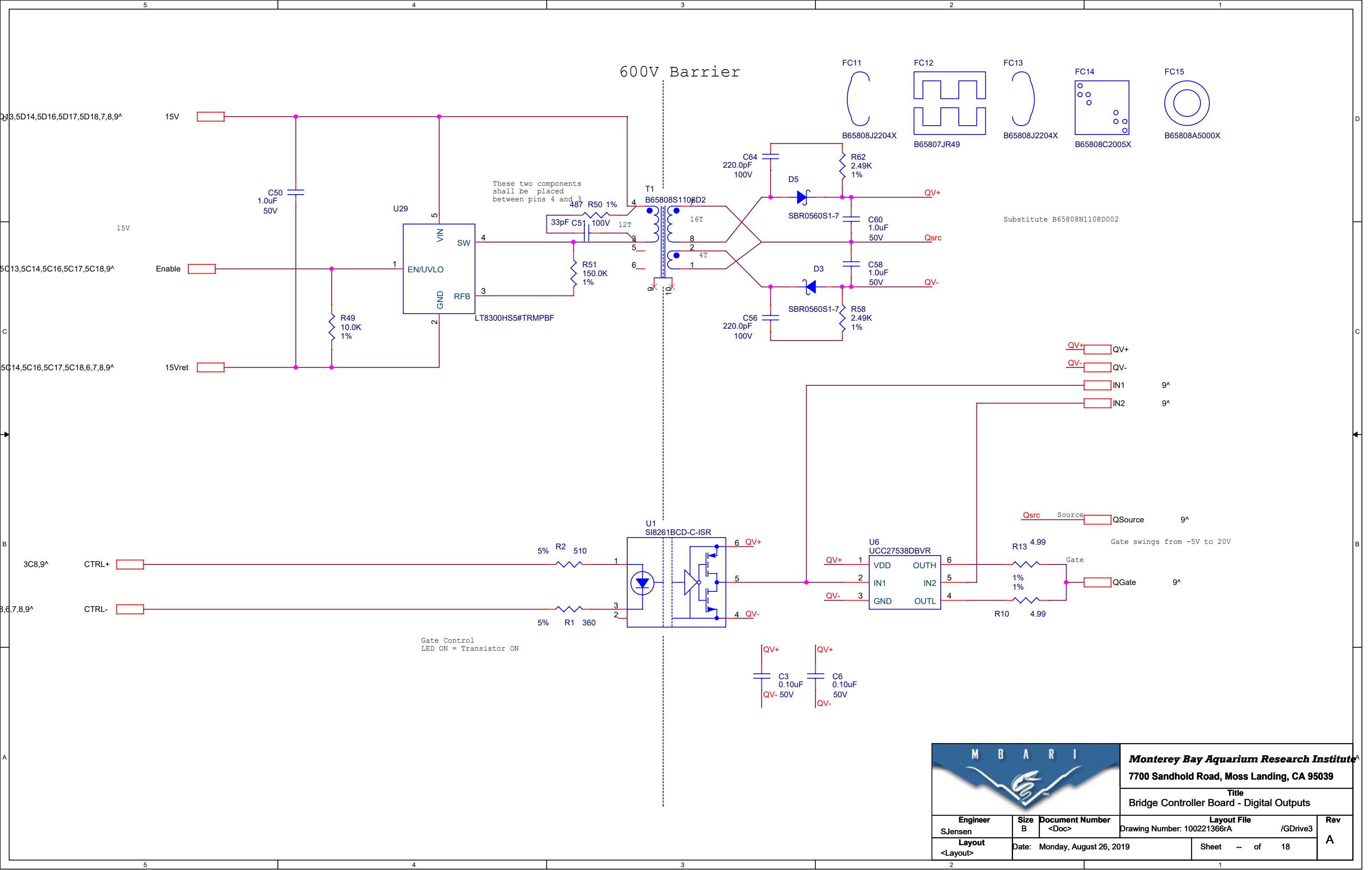


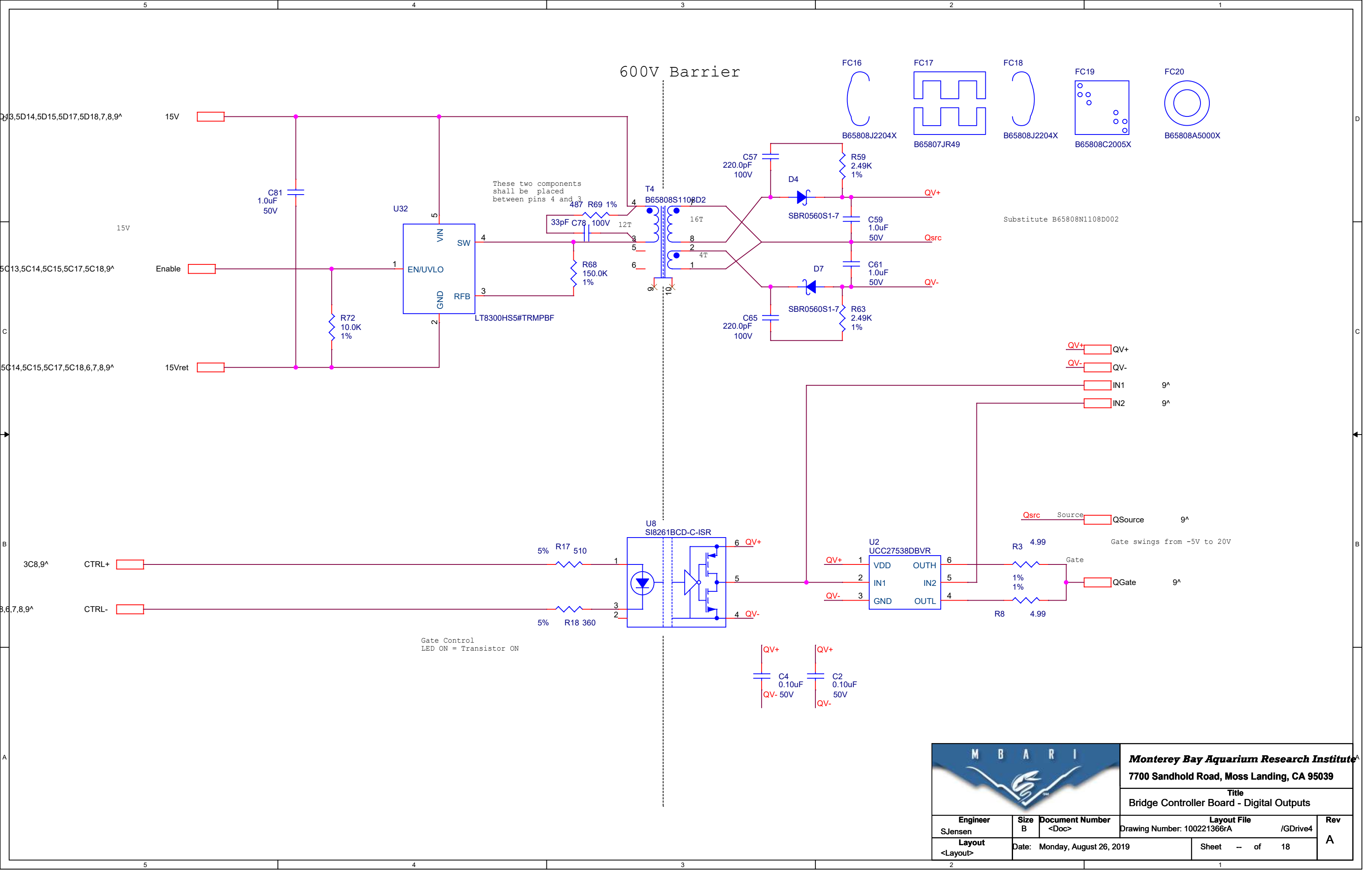
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		Title Bridge Controller Board - Current ADC		
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA	Rev A
Layout <Layout>	Date: Monday, August 26, 2019		Sheet 10 of 18	

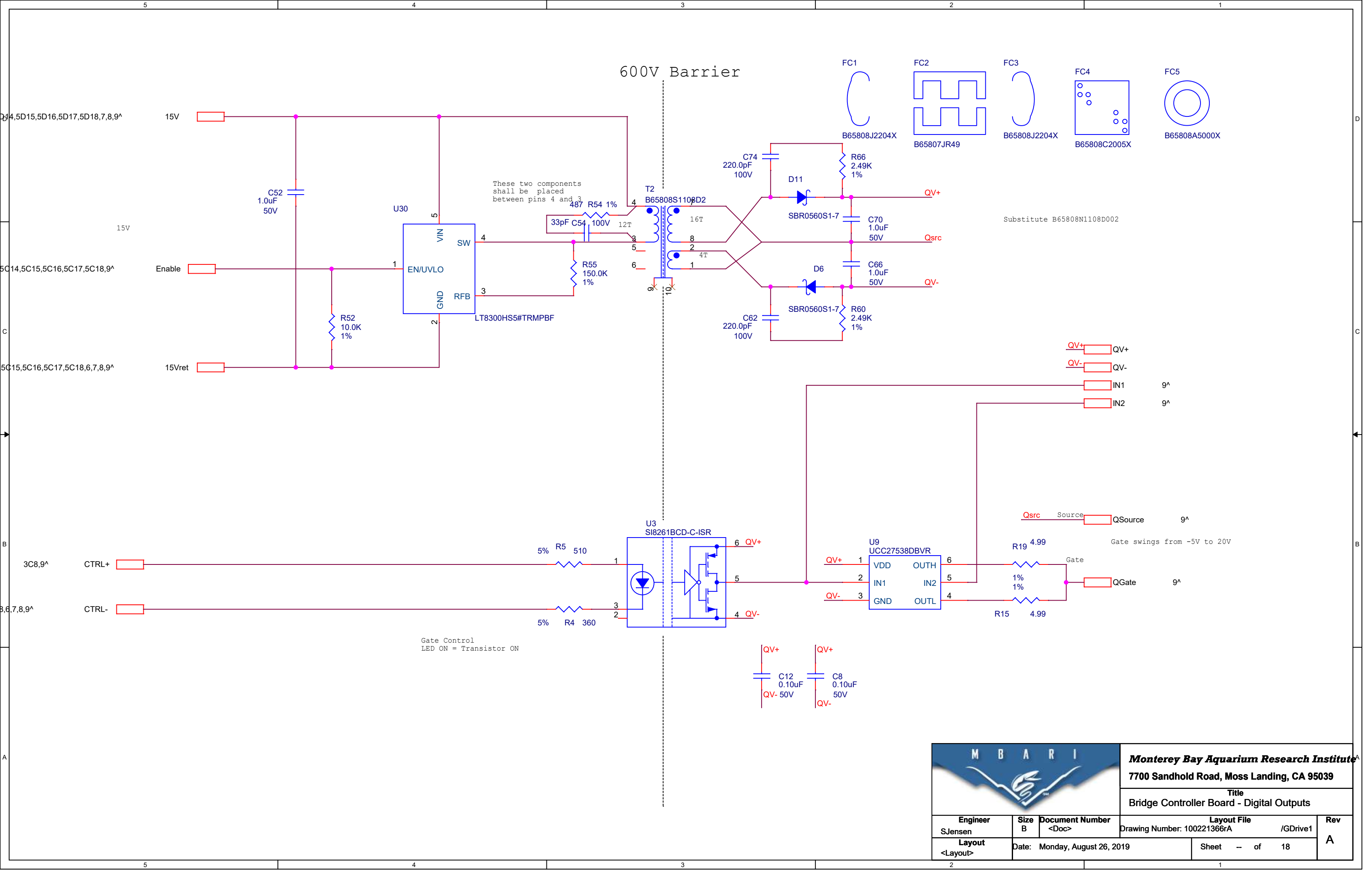


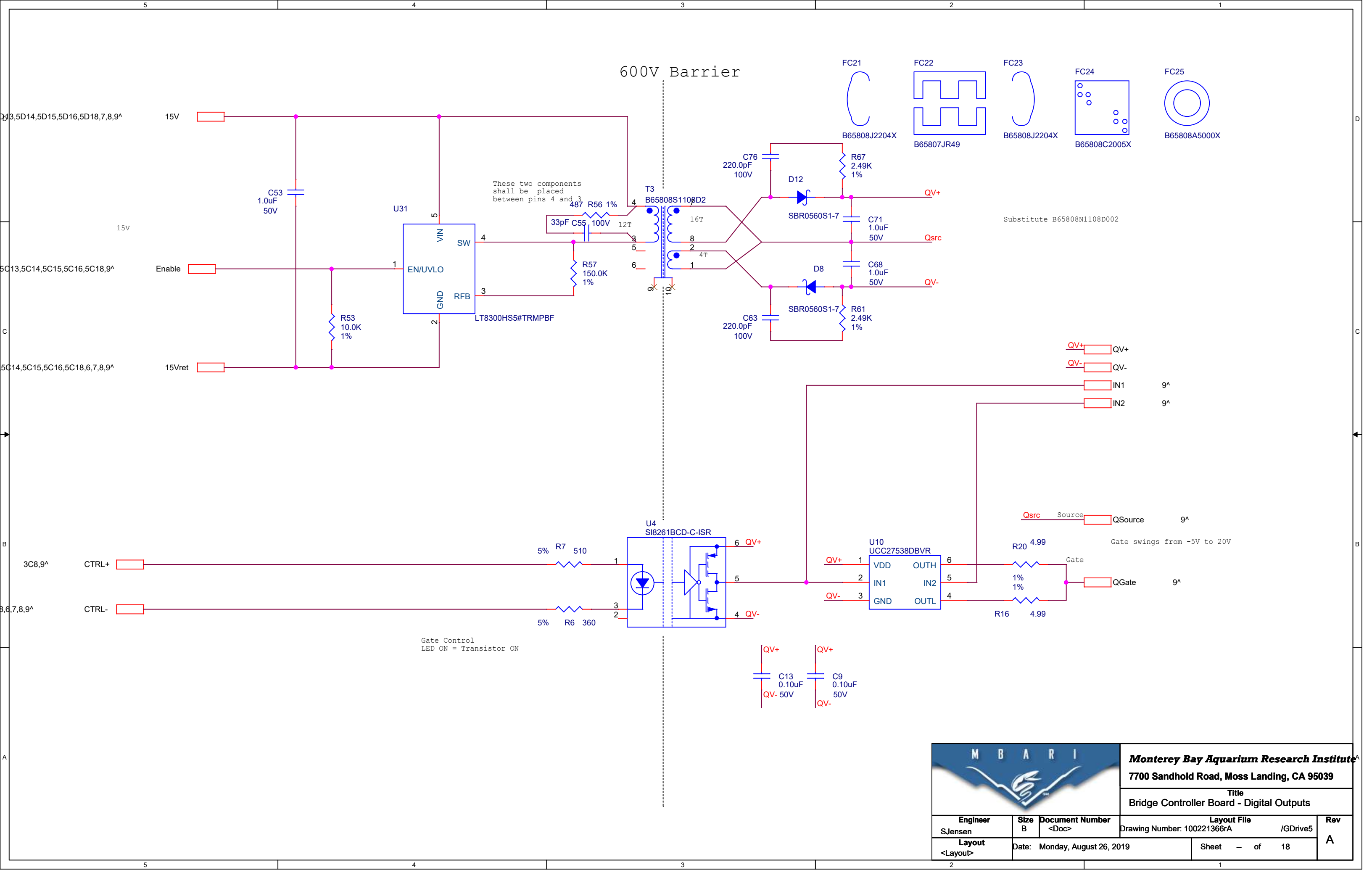
			Monterey Bay Aquarium Research Institute		
			7700 Sandhold Road, Moss Landing, CA 95039		
			Title Bridge Controller Board - SPI DACs		
Engineer SJensen	Size B	Document Number <Doc>	Layout File Drawing Number: 100221366rA		Rev A
Layout <Layout>	Date: Monday, August 26, 2019		Sheet 11 of 18		

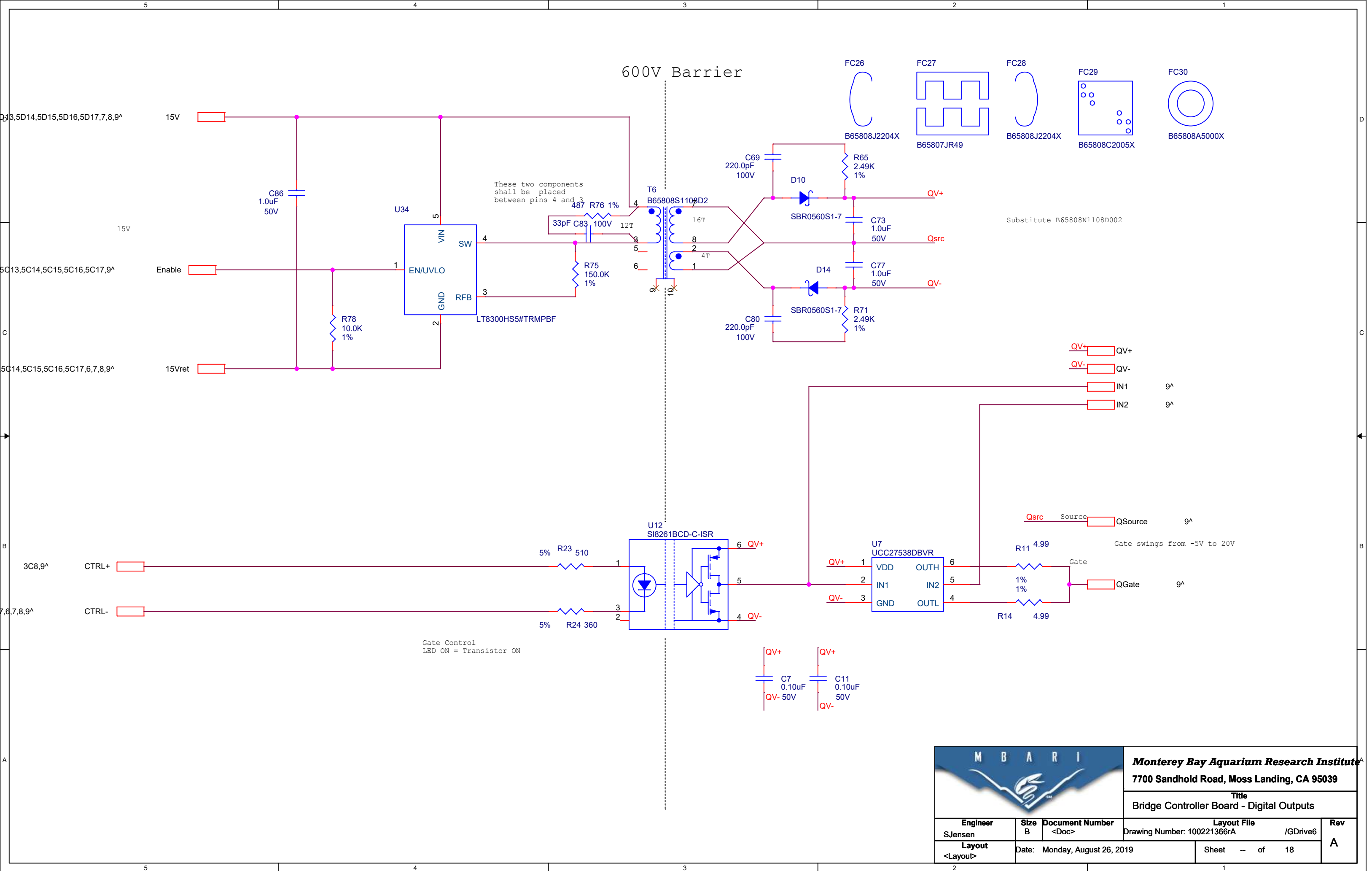


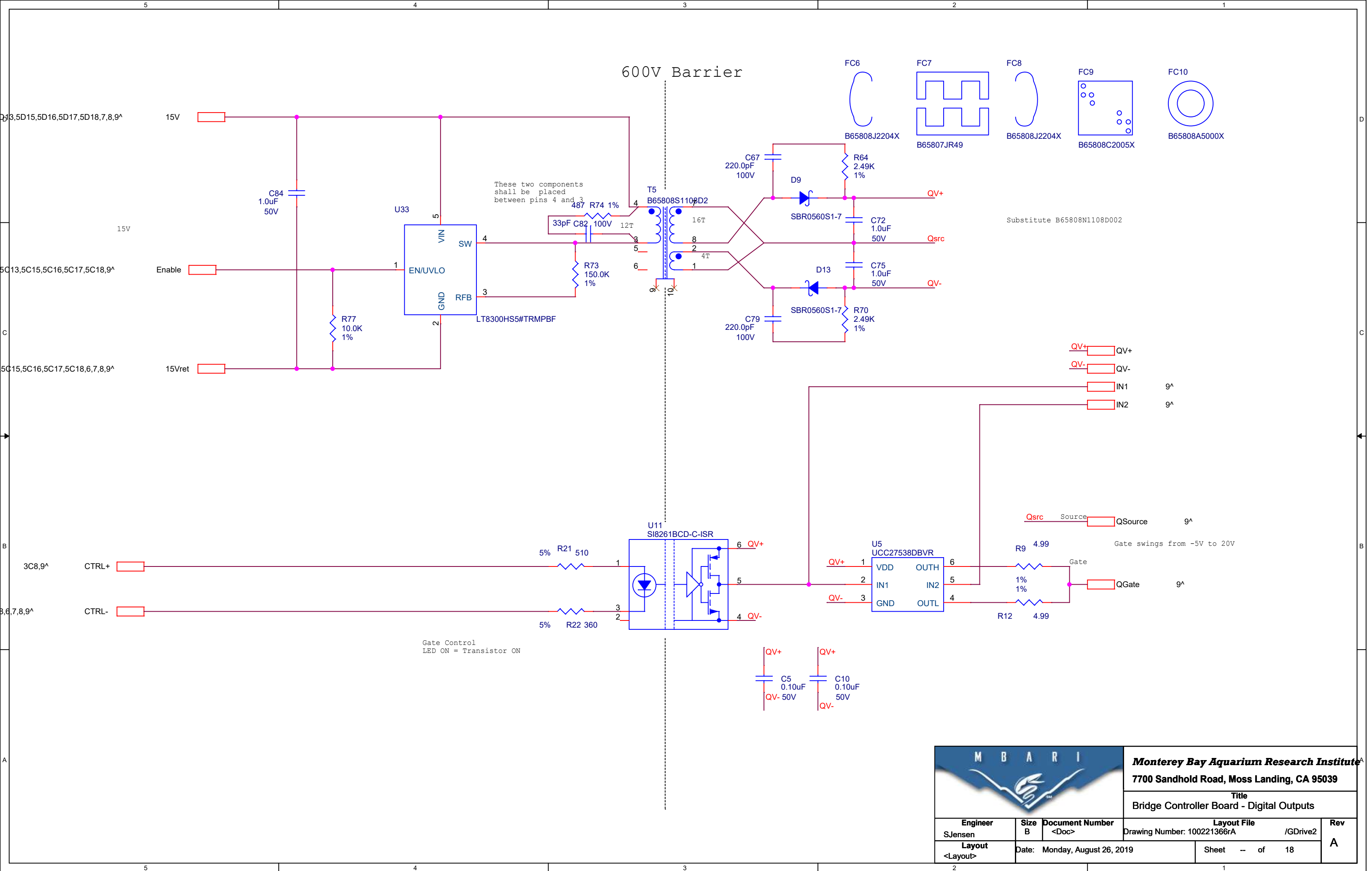


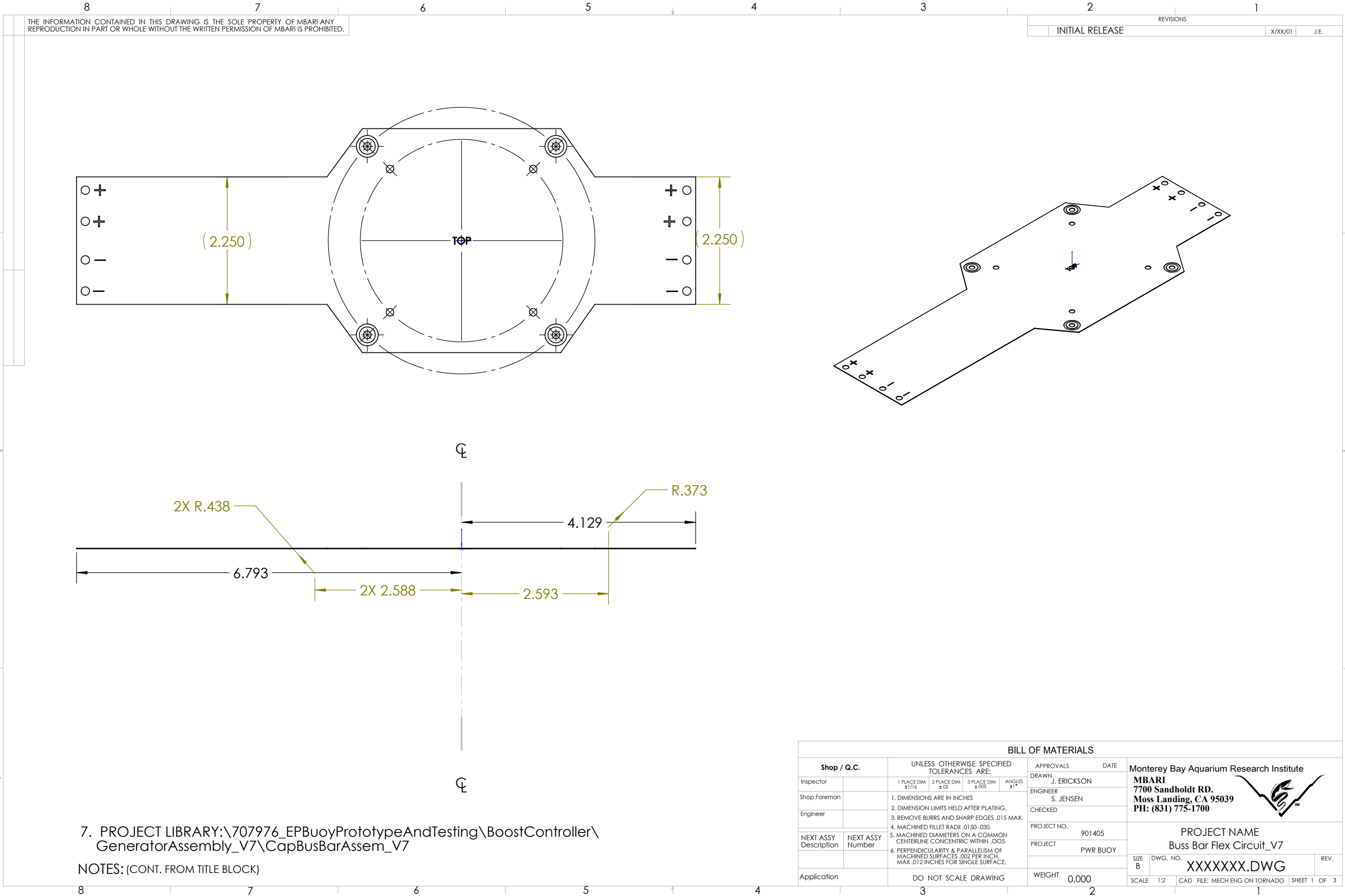


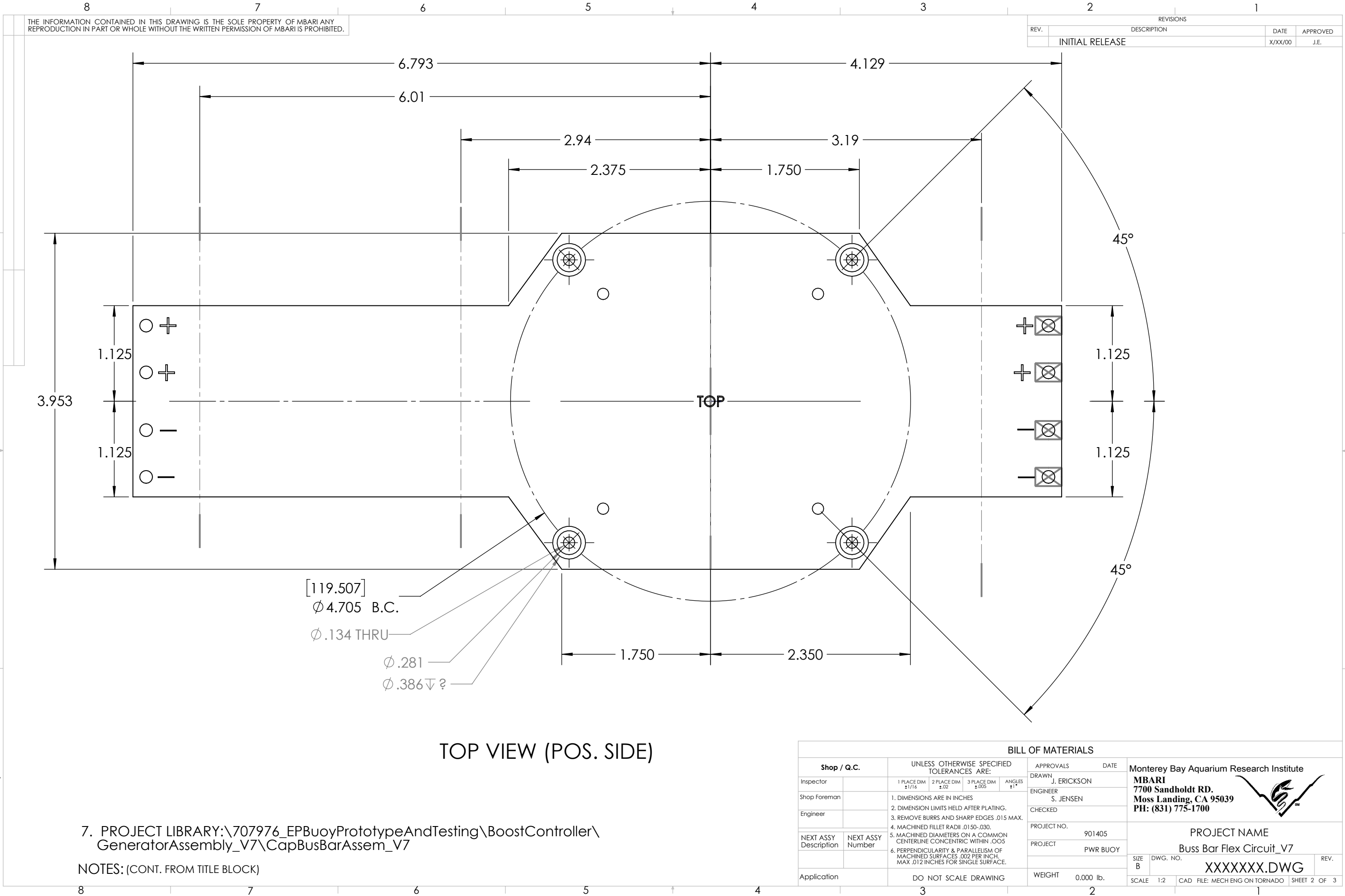


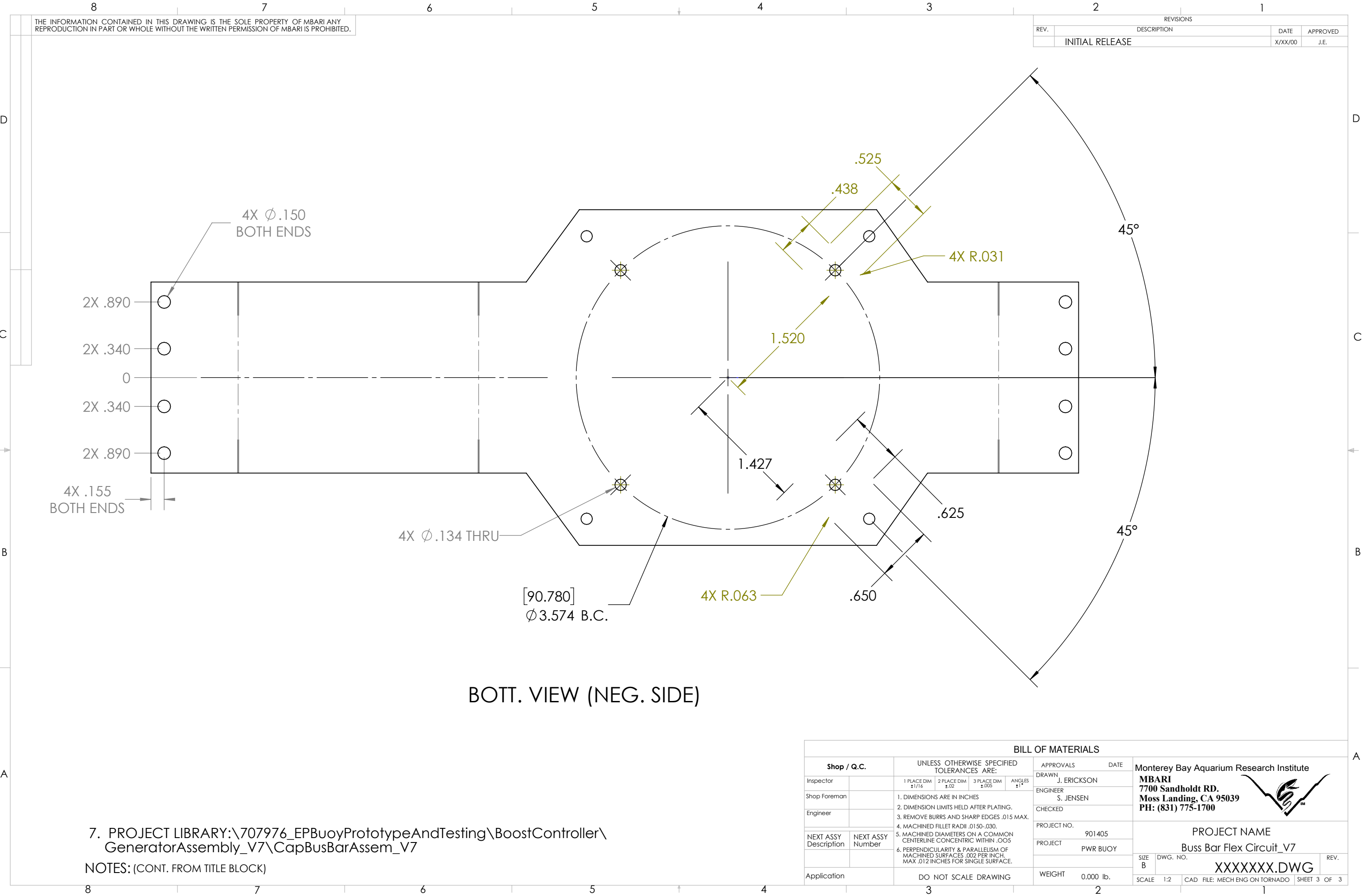


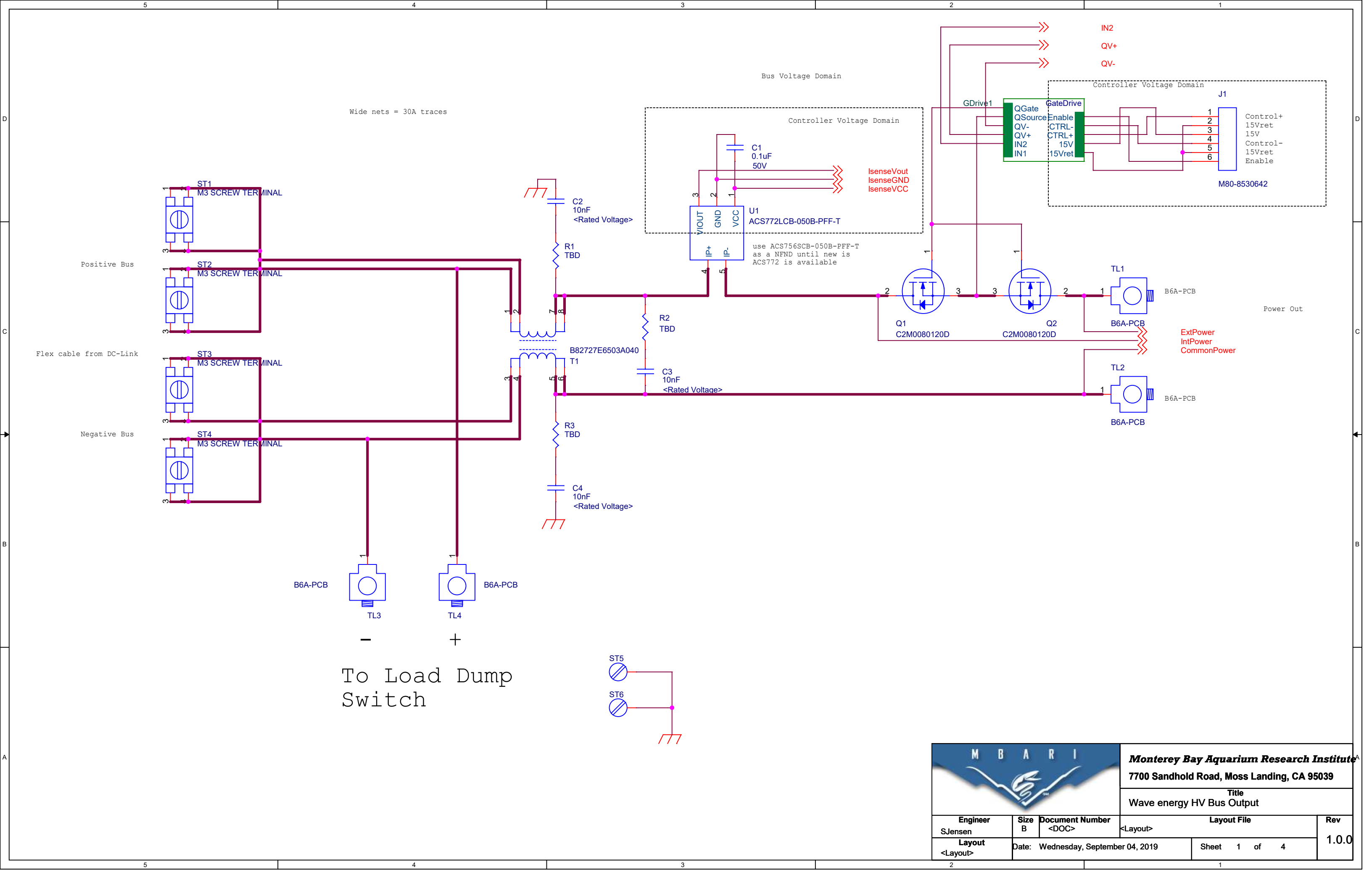


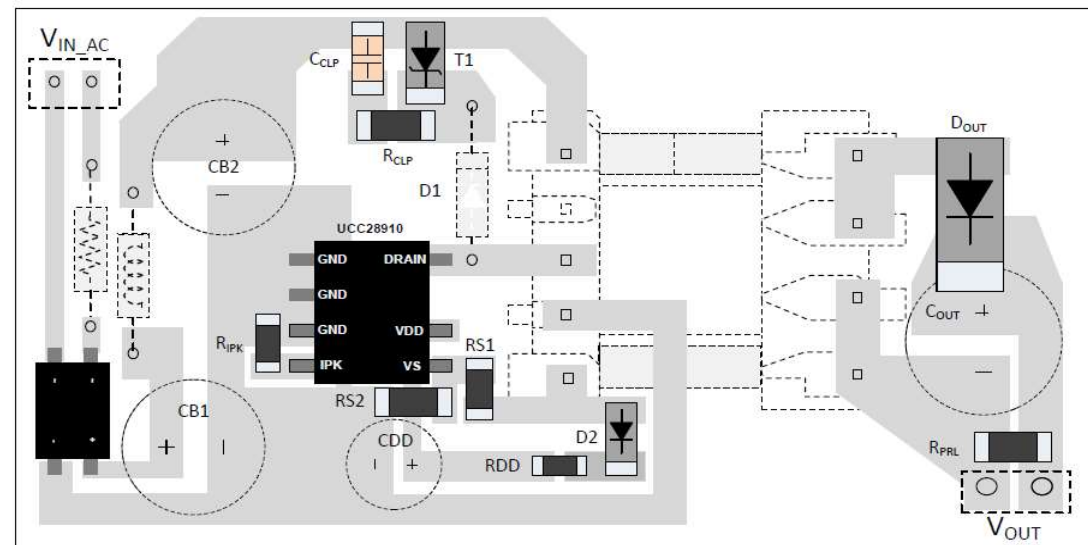
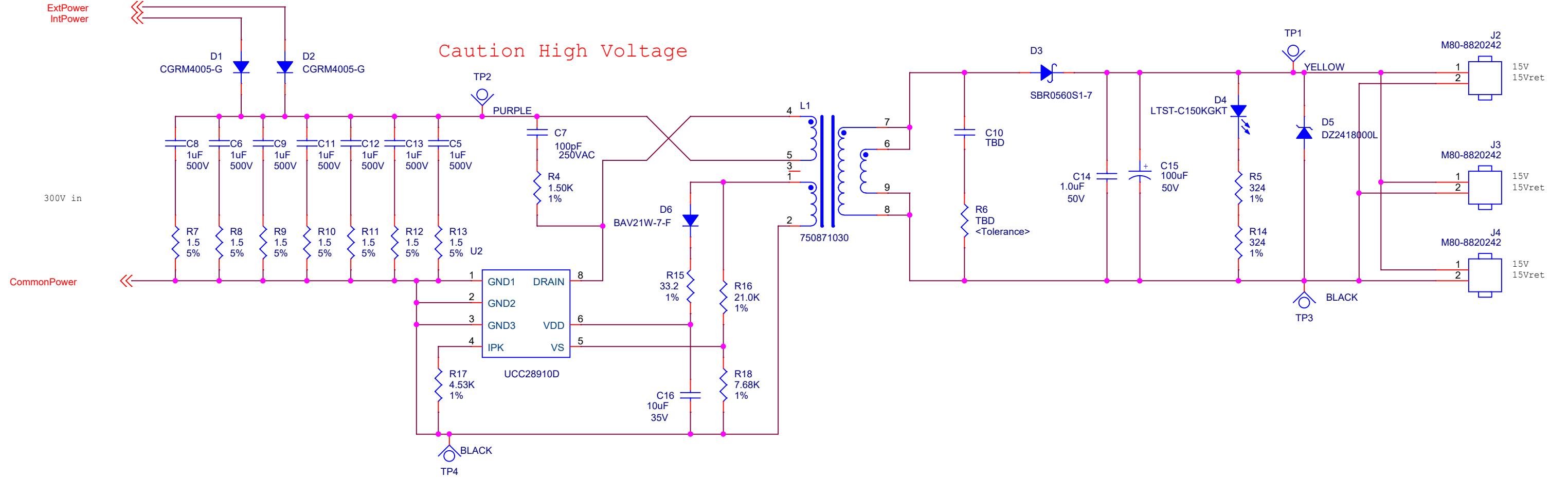


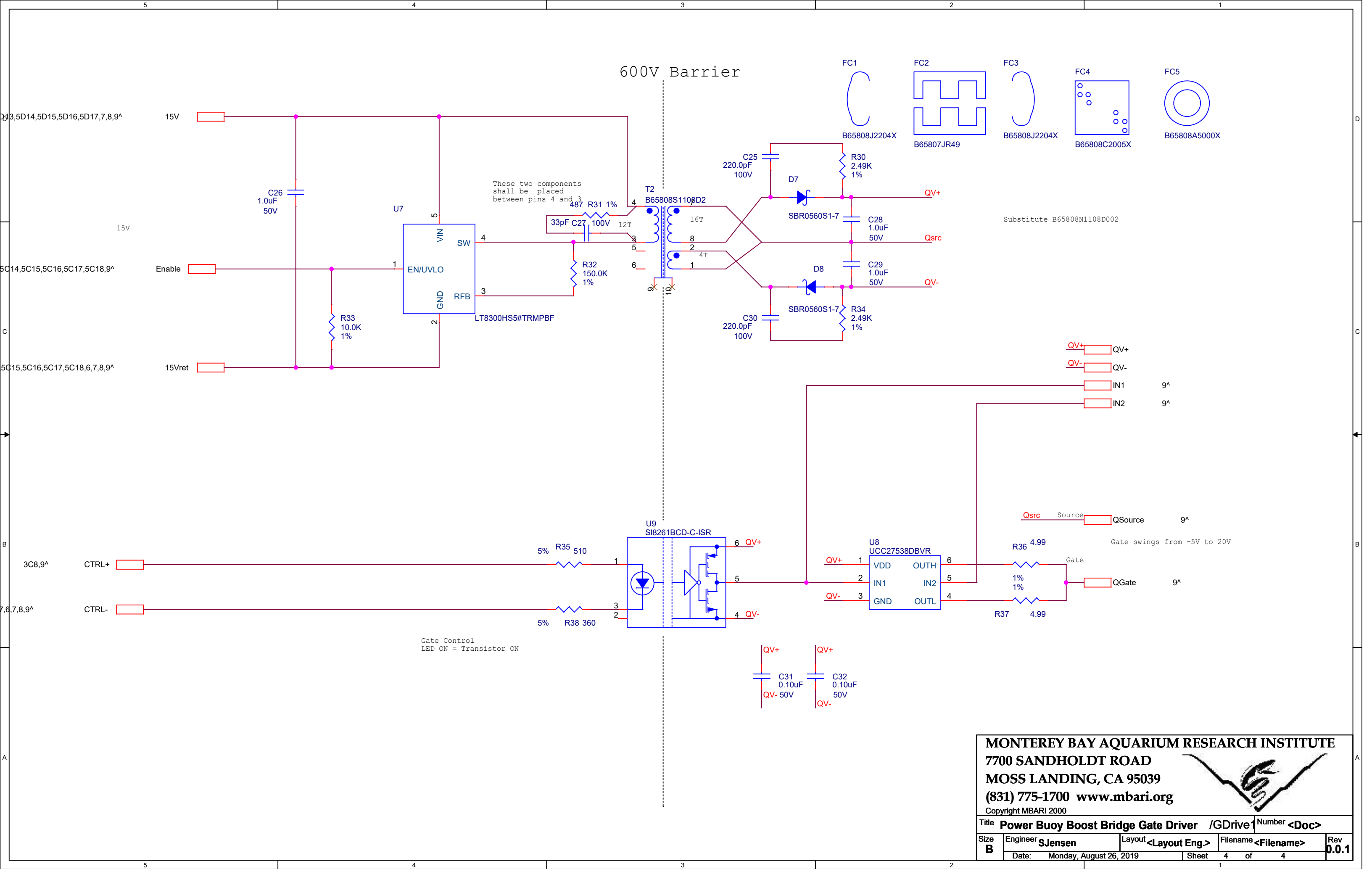


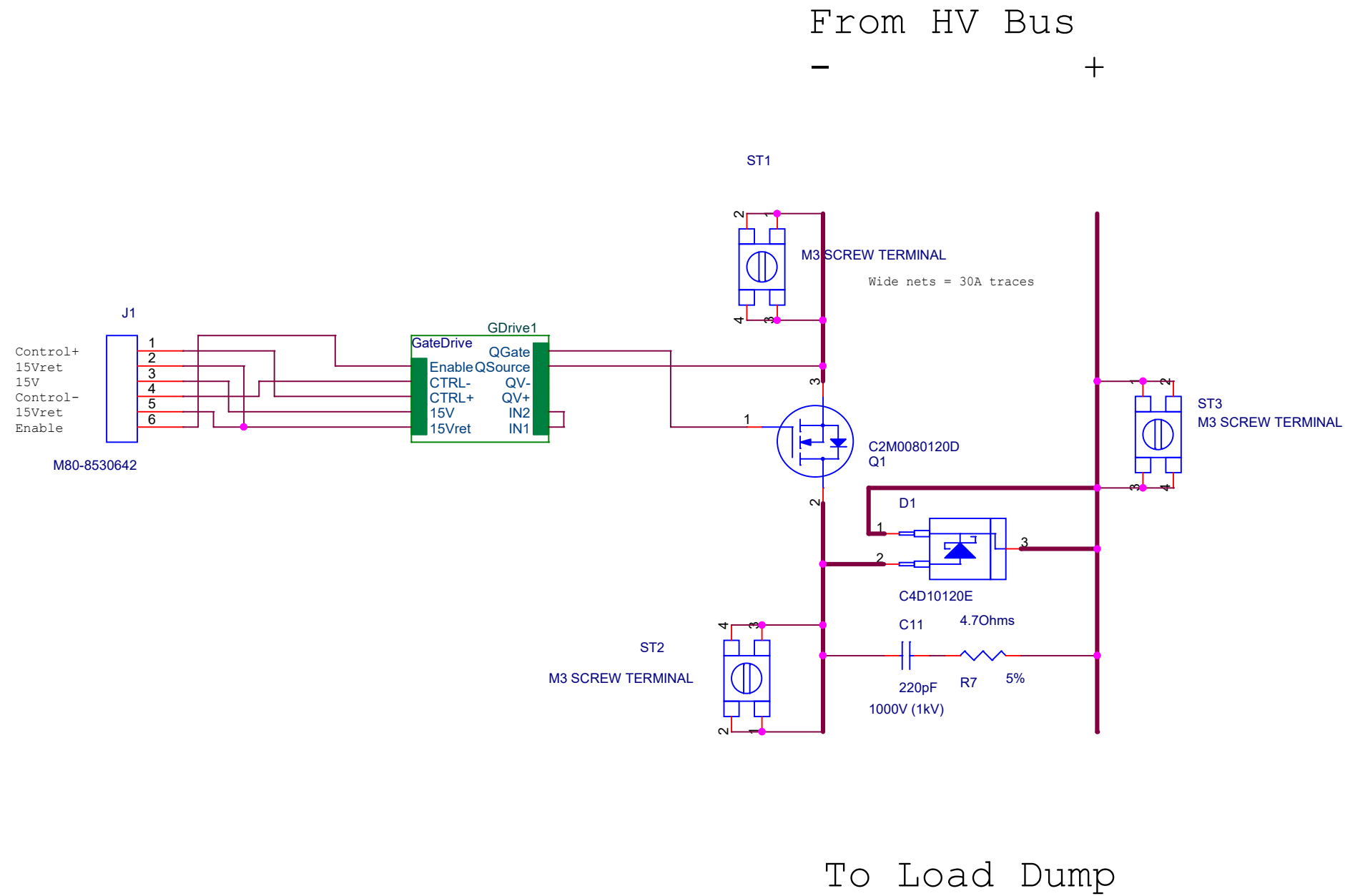












		Monterey Bay Aquarium Research Institute^A 7700 Sandhold Road, Moss Landing, CA 95039	
		Title Wave energy Load Dump Switch	
Engineer SJensen	Size B	Document Number <DOC>	Layout File Drawing Number: 100221369rA
Layout <Layout>	Date: Wednesday, September 04, 2019		Rev A
Sheet 1 of 2			

