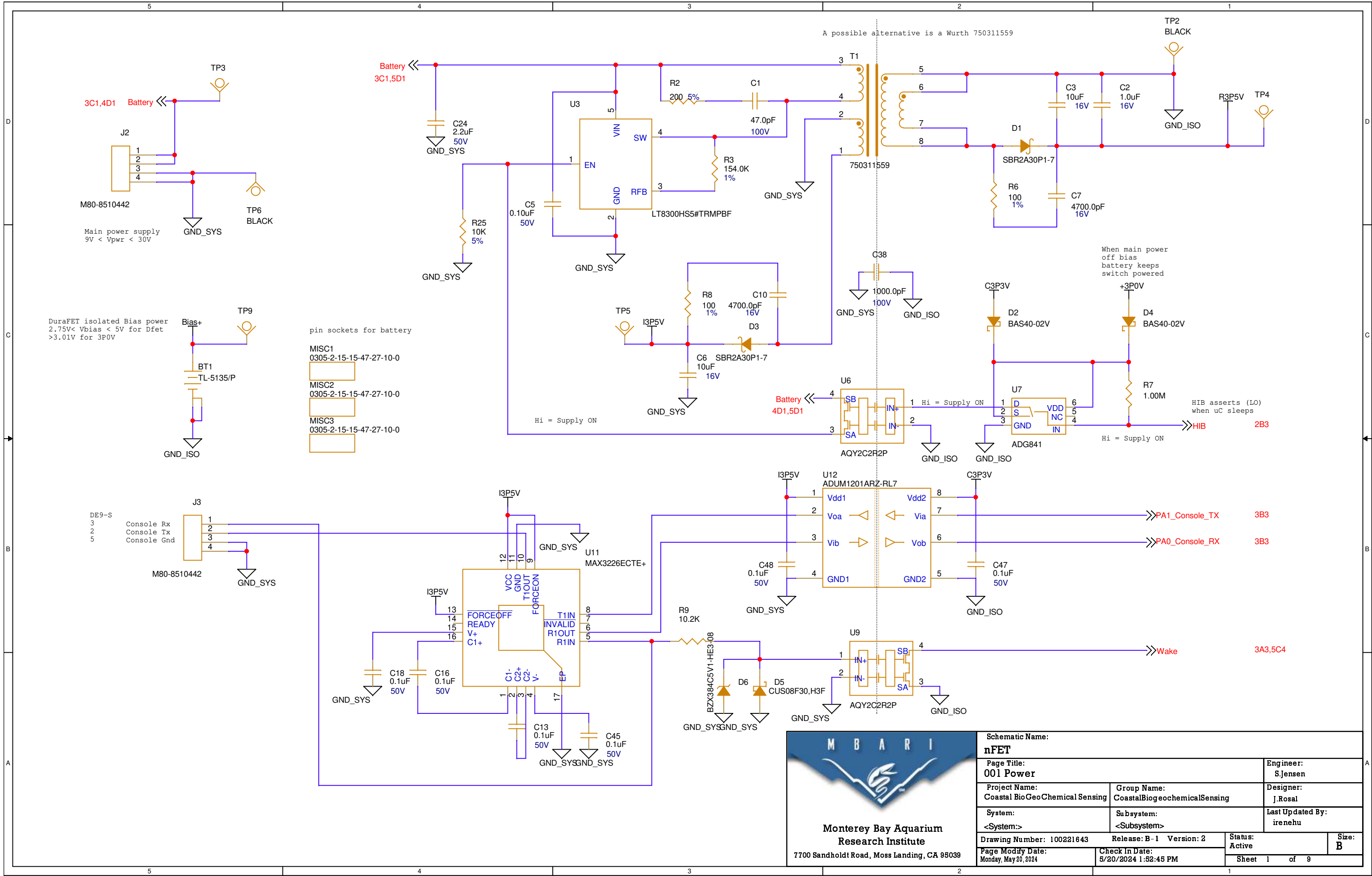
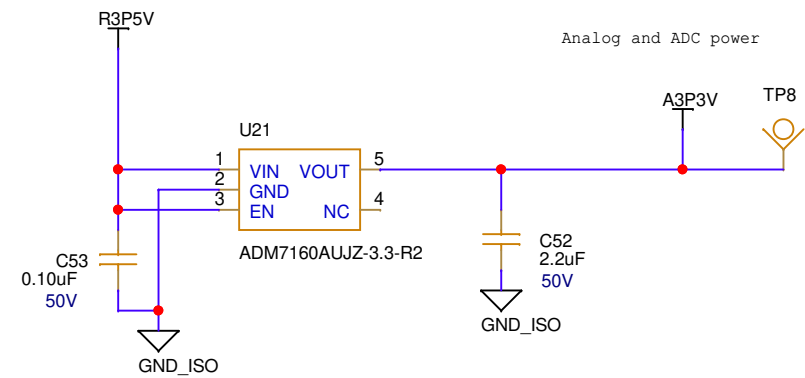
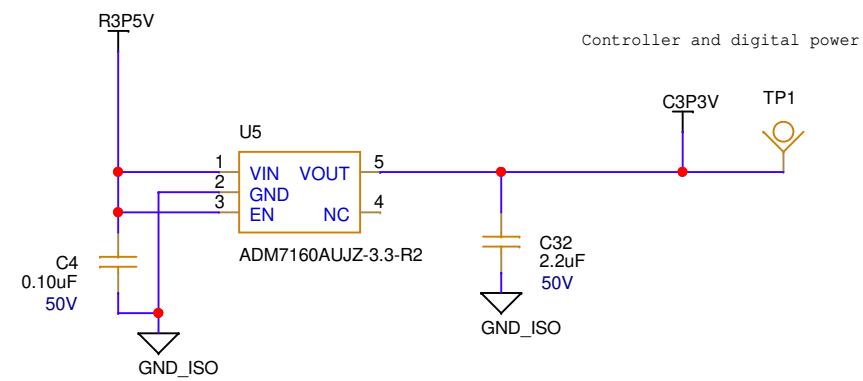
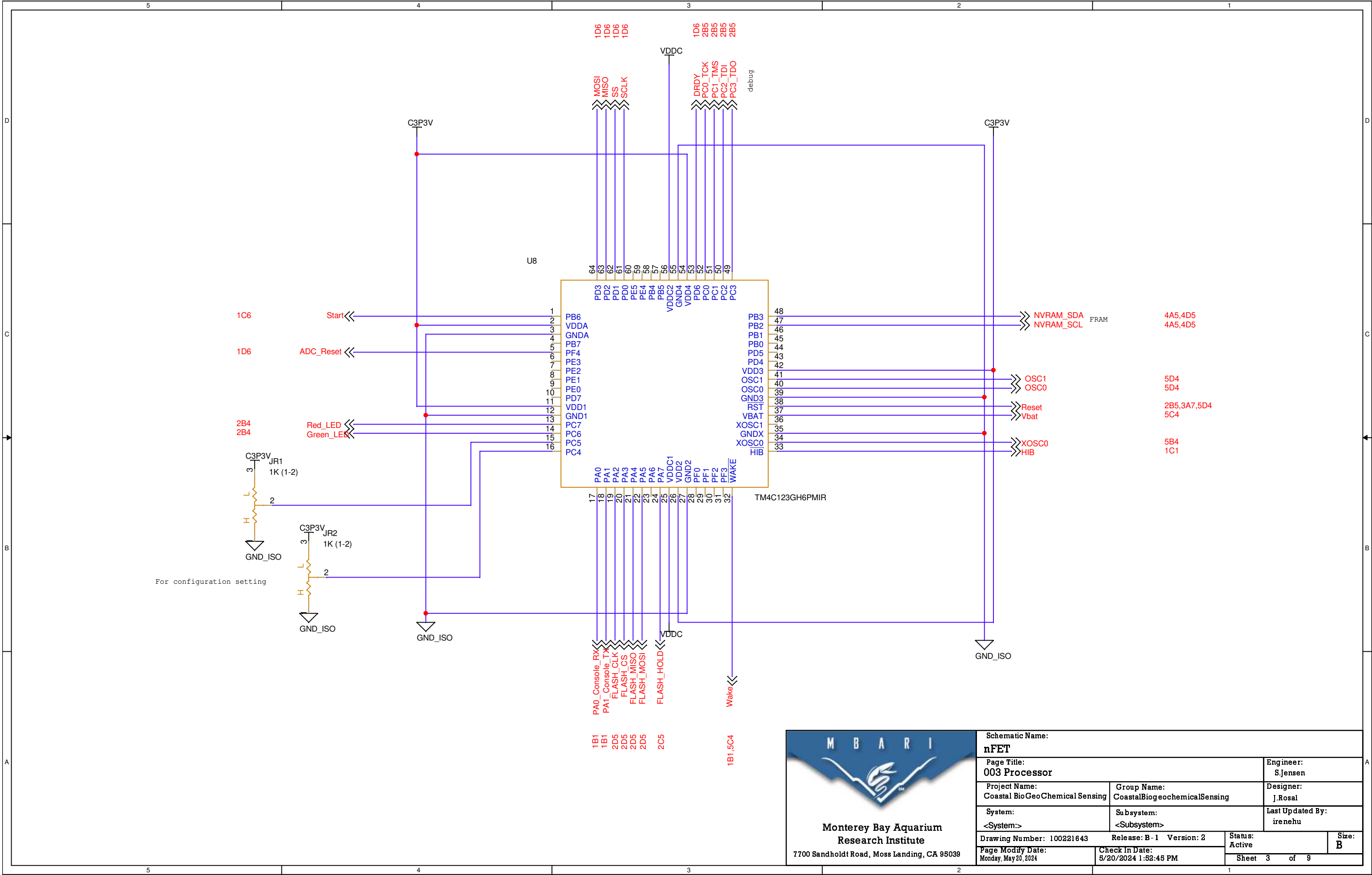






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Schematic Name: nFET				
Page Title: 002 Voltage Regulators			Engineer: S.Jensen	
Project Name: Coastal BioGeoChemical Sensing		Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal
System: <System>		Subsystem: <Subsystem>		Last Updated By: irenehu
Drawing Number: 100221643		Release: B-1 Version: 2		Status: Active
Page Modify Date: Monday, May 20, 2024		Check In Date: 5/20/2024 1:52:45 PM		Size: B
Sheet 2 of 9				

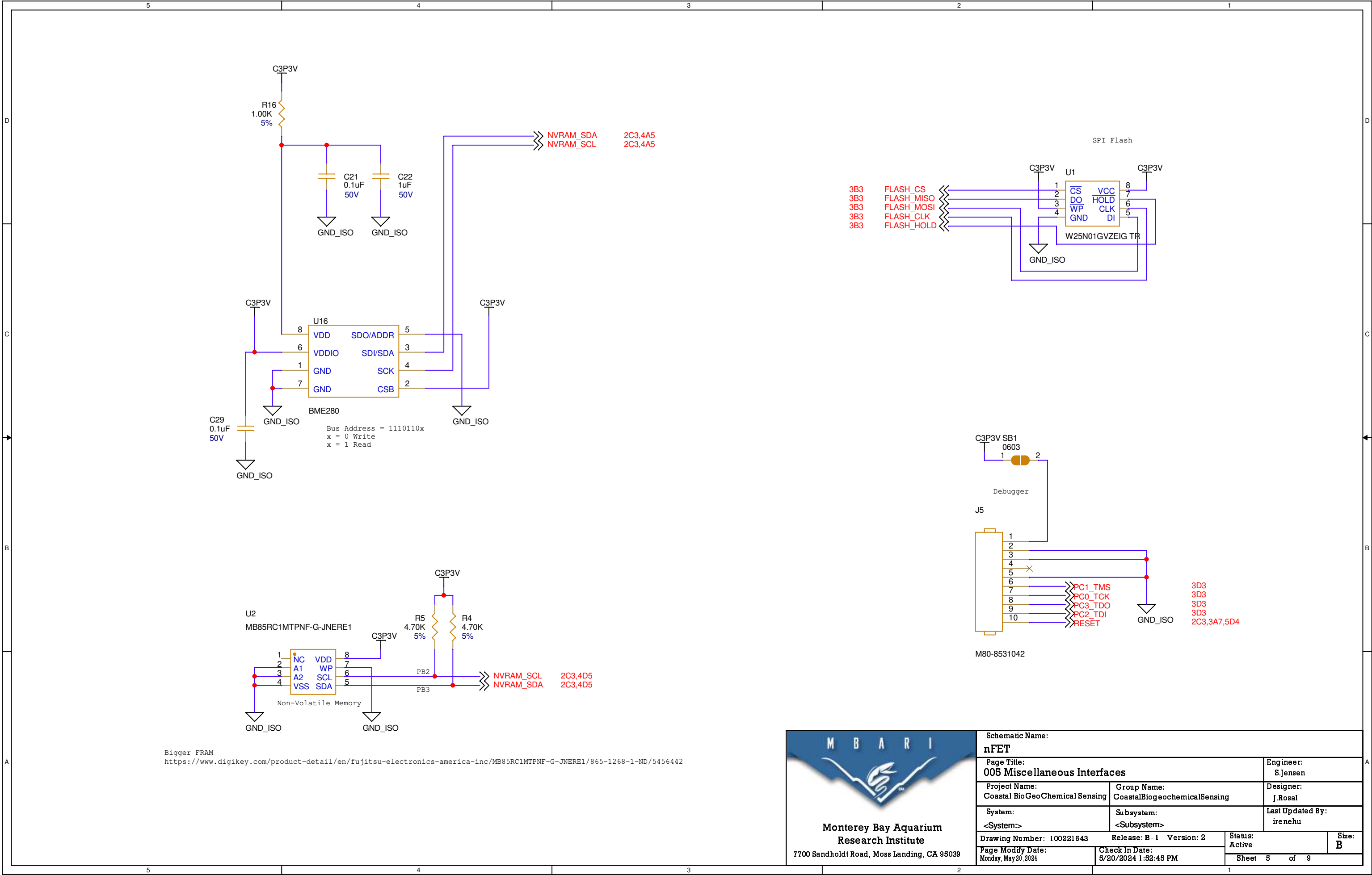




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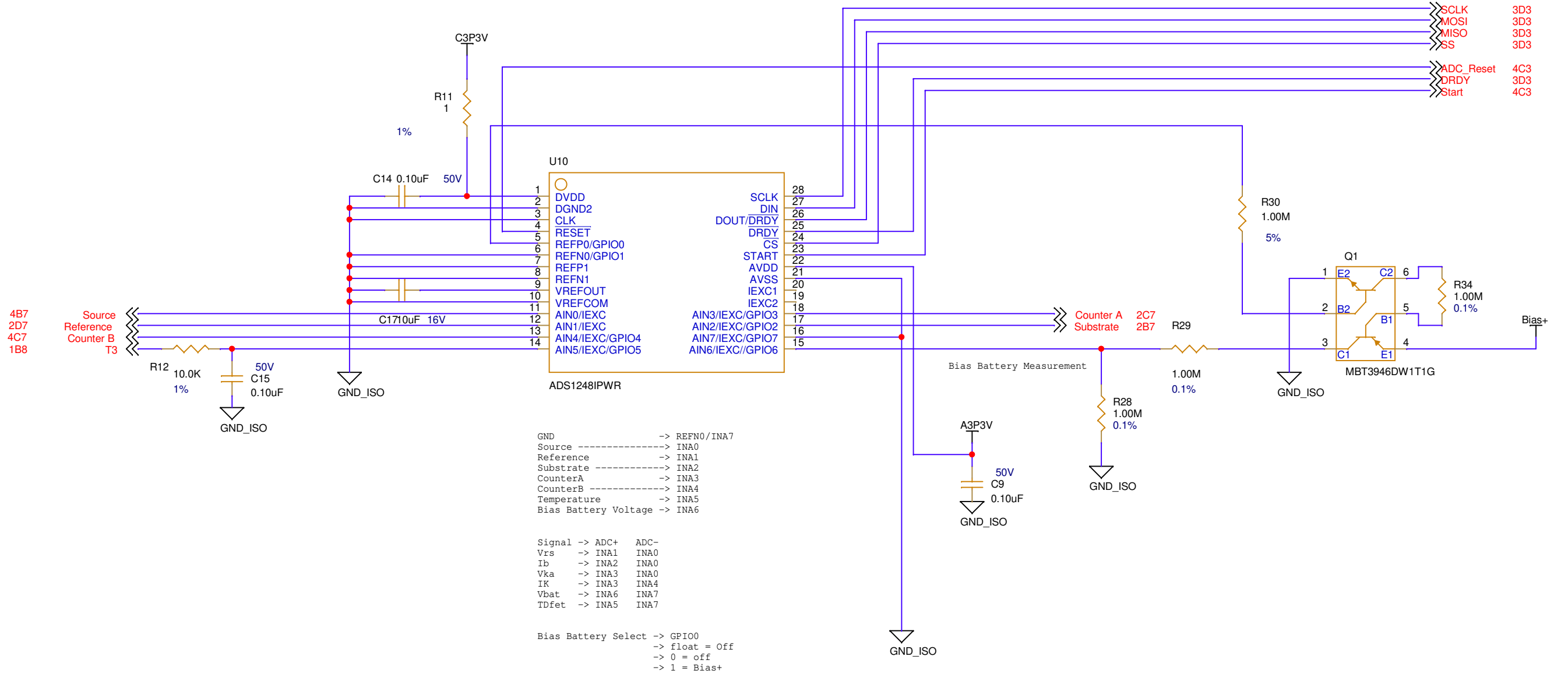
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Project Name: Coastal BioGeoChemical Sensing		Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal
System: <System>		Subsystem: <Subsystem>		Last Updated By: irenehu
Drawing Number: 100221643			Release: B-1	Version: 2
Page Modify Date: Monday, May 20, 2024			Check In Date: 5/20/2024 1:52:45 PM	Status: Active
			Sheet 3 of 9	Size: B

Schematic Name:				
nFET				
Page Title: 004 Processor Bypass			Engineer: S.Jensen	
Project Name: Coastal BioGeoChemical Sensing		Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal
System: <System>		Subsystem: <Subsystem>		Last Updated By: irenehu
Drawing Number: 100221643			Release: B-1	Version: 2
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Page Modify Date: Monday, May 20, 2024		Check In Date: 5/20/2024 1:52:45 PM		
Sheet 4		of 9		



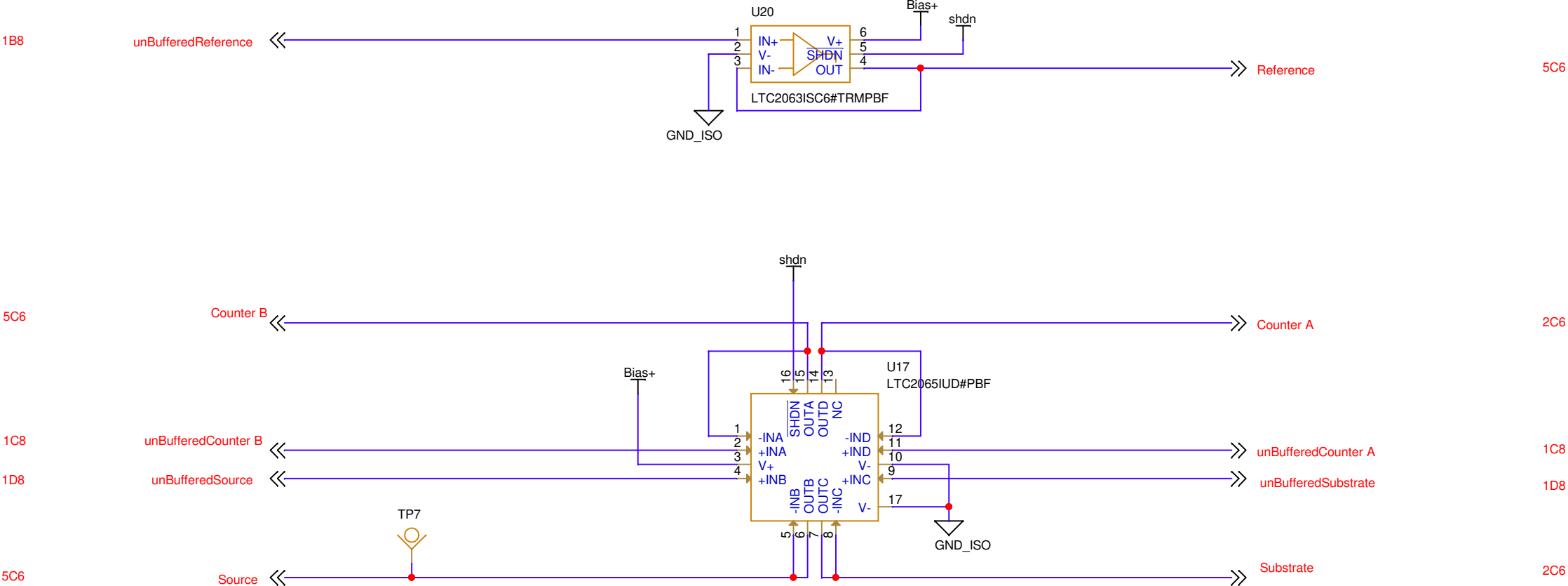
Bigger FRAM
<https://www.digikey.com/product-detail/en/fujitsu-electronics-america-inc/MB85RC1MTPNF-G-JNERE1/865-1268-1-ND/5456442>

 Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039		Schematic Name: nFET	
		Page Title: 005 Miscellaneous Interfaces	Engineer: S.Jensen
Project Name: Coastal BioGeoChemical Sensing	Group Name: CoastalBiogeochemicalSensing	Designer: J.Rosal	
System: <System>	Subsystem: <Subsystem>	Last Updated By: irenehu	
Drawing Number: 100221643	Release: B-1	Version: 2	Status: Active
Page Modify Date: Monday, May 20, 2024	Check In Date: 5/20/2024 1:52:45 PM	Sheet 5 of 9	Size: B

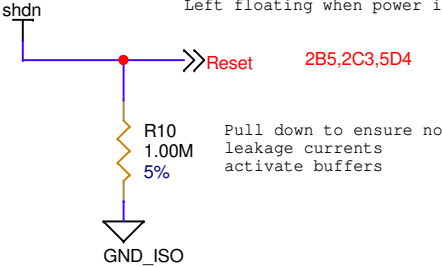


Schematic Name: nFET			
Page Title: 006 pH ADC			Engineer: S.Jensen
Project Name: Coastal BioGeoChemical Sensing	Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal
System: <System>	Subsystem: <Subsystem>		Last Updated By: irenehu
Drawing Number: 100221643		Release: B-1 Version: 2	Status: Active
Page Modify Date: Monday, May 20, 2024		Check In Date: 5/20/2024 1:52:45 PM	Size: B
Sheet 6 of 9			

These buffers serve two purposes
1)isolate leakage currents into Bias circuit
2)isolate bias circuit while analog power is off

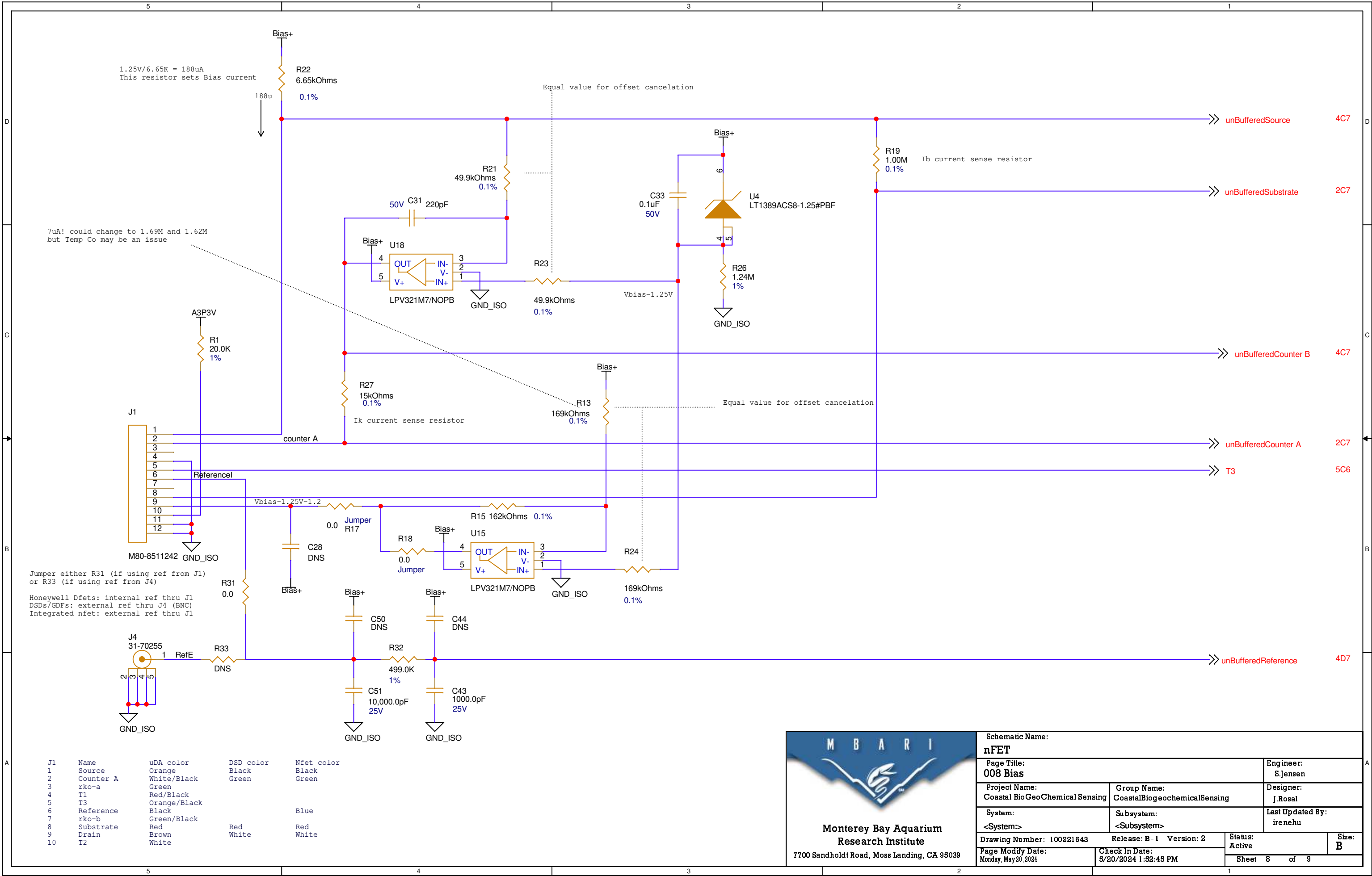


Reset (U19 output) is repurposed to control buffers, as it happens to pull low when power (C3P3V) is rising/falling, and pull high when p good
Left floating when power is gone, hence pulldown



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Schematic Name:				
nFET				
Page Title: 007 Buffer			Engineer: S.Jensen	
Project Name: Coastal BioGeoChemical Sensing	Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal	
System: <System:>	Subsystem: <Subsystem>		Last Updated By: irenehu	
Drawing Number: 100221643	Release: B-1	Version: 2	Status: Active	Size: B
Page Modify Date: Monday, May 20, 2024	Check In Date: 5/20/2024 1:52:45 PM		Sheet 7 of 9	



J1	Name	uDA color	DSD color	Nfet color
1	Source	Orange	Black	Black
2	Counter A	White/Black	Green	Green
3	rko-a	Green		
4	T1	Red/Black		
5	T3	Orange/Black		
6	Reference	Black		Blue
7	rko-b	Green/Black		
8	Substrate	Red	Red	Red
9	Drain	Brown	White	White
10	T2	White		



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Schematic Name: nFET				
Page Title: 008 Bias			Engineer: S.Jensen	
Project Name: Coastal BioGeoChemical Sensing		Group Name: CoastalBiogeochemicalSensing		Designer: J.Rosal
System: <System>		Subsystem: <Subsystem>		Last Updated By: irenehu
Drawing Number: 100221643			Release: B-1	Version: 2
Page Modify Date: Monday, May 20, 2024			Check In Date: 5/20/2024 1:52:45 PM	Status: Active
			Sheet 8 of 9	Size: B

