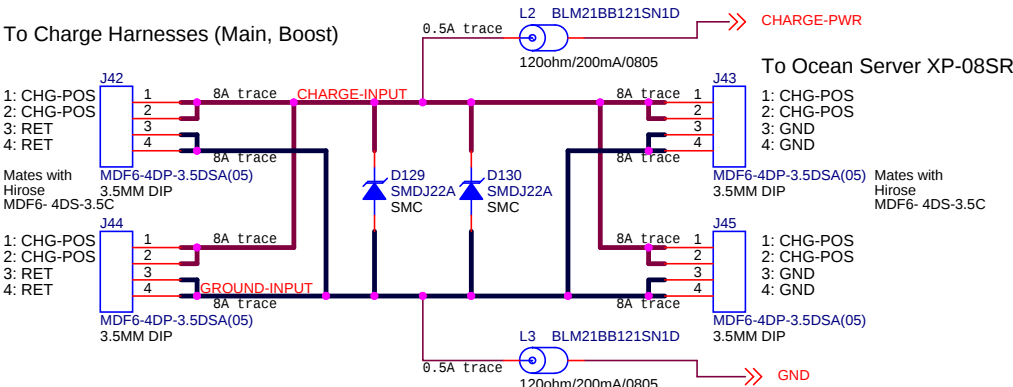
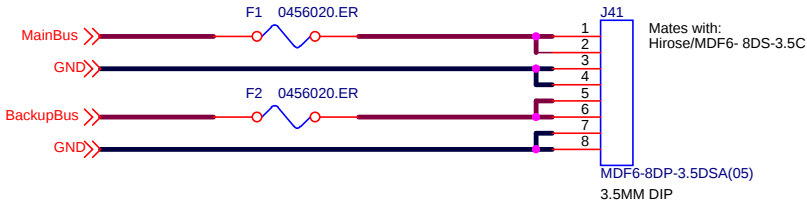


Charge inputs and power distribution to XP-08SR

To Charge Harnesses (Main, Boost)



Outputs to MB by Discharge Harness



Charging currents required per Half-Pack:

18V: 8A initial, 12A final
20V: 7.9A initial, 11.2A final
22V: 7.2A initial, 10.2A final
24V: 6.6A initial, 9.4A final

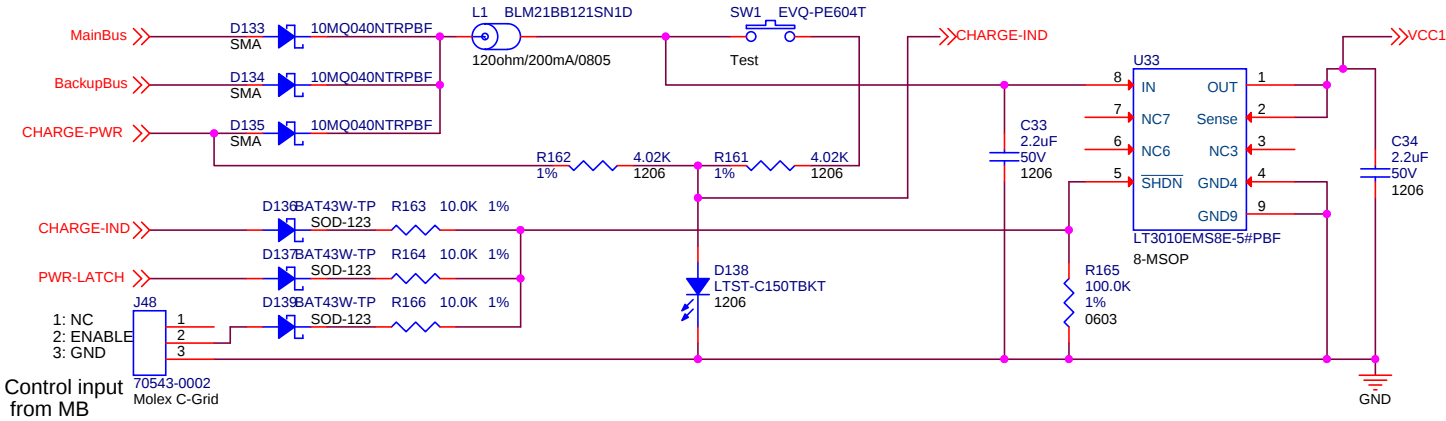
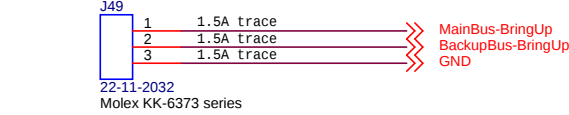
Charging time at 24V and full current with cycling loss and top-off:
(6.2 AH x 4 x 2) / 3A x 1.12 x 1.04 = 19.3 hours

RS-232 pass-thru from discharge harness to Ocean Server XP-08SR

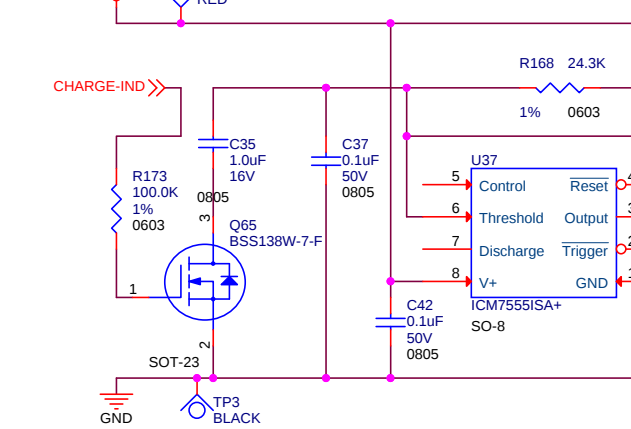
RS-232 port to MB RS-232 to Ocean Server



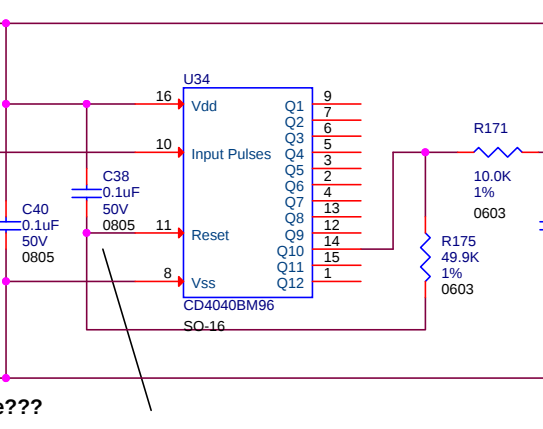
Battery bring-up interface



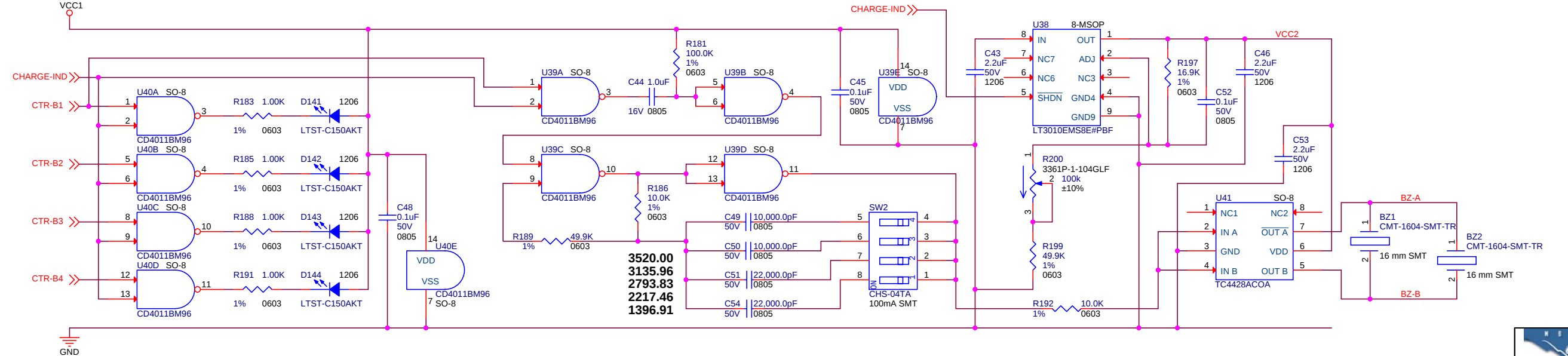
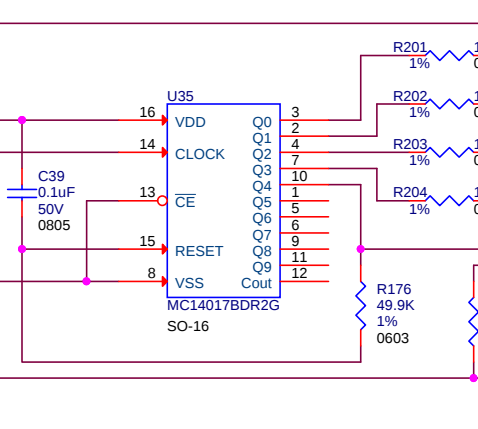
Frequency generator D=50%, T=1.4 RC

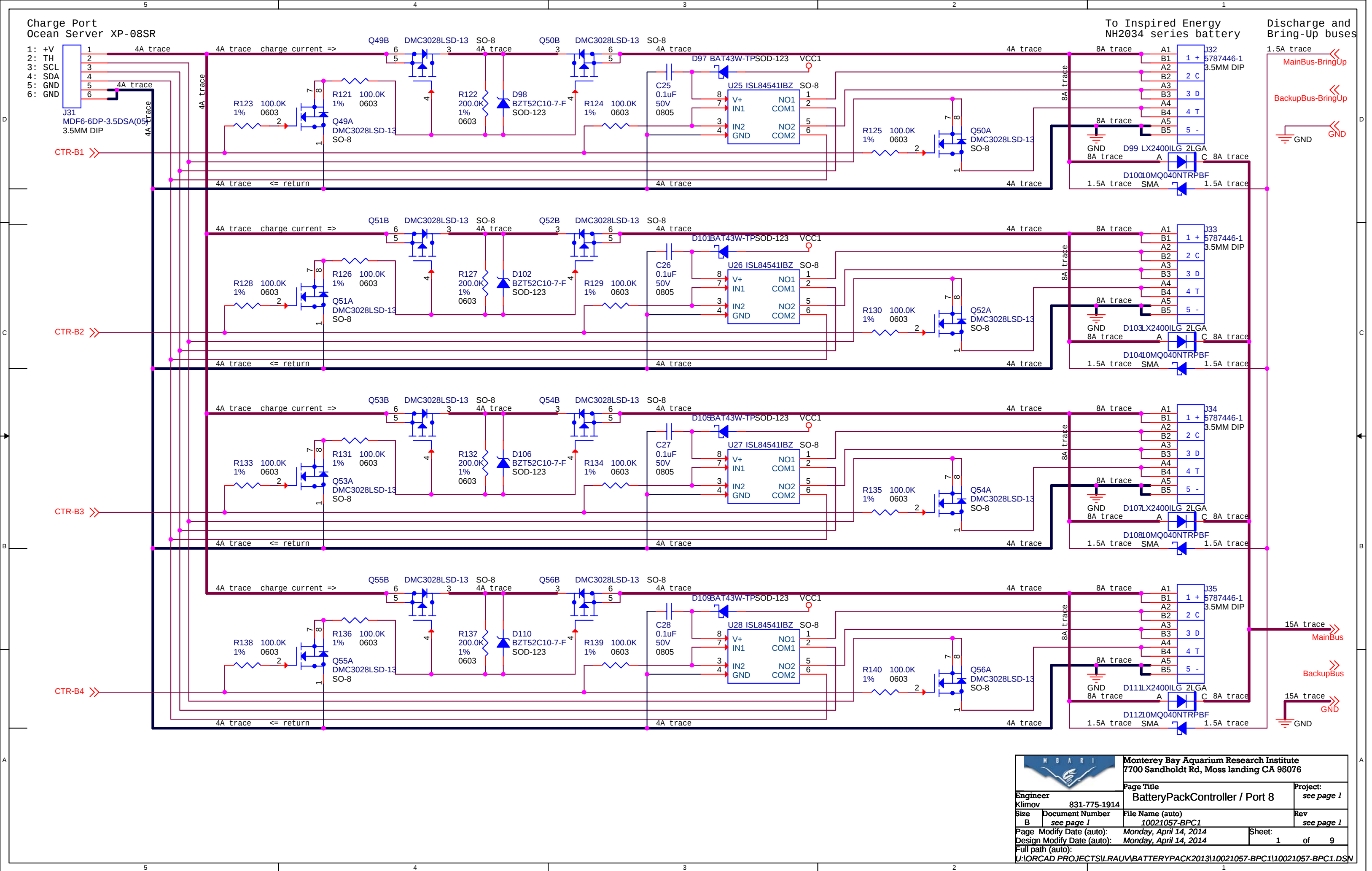


Binary Counter 3-18V, 3 MHz, 5uA with 5 ms reset line

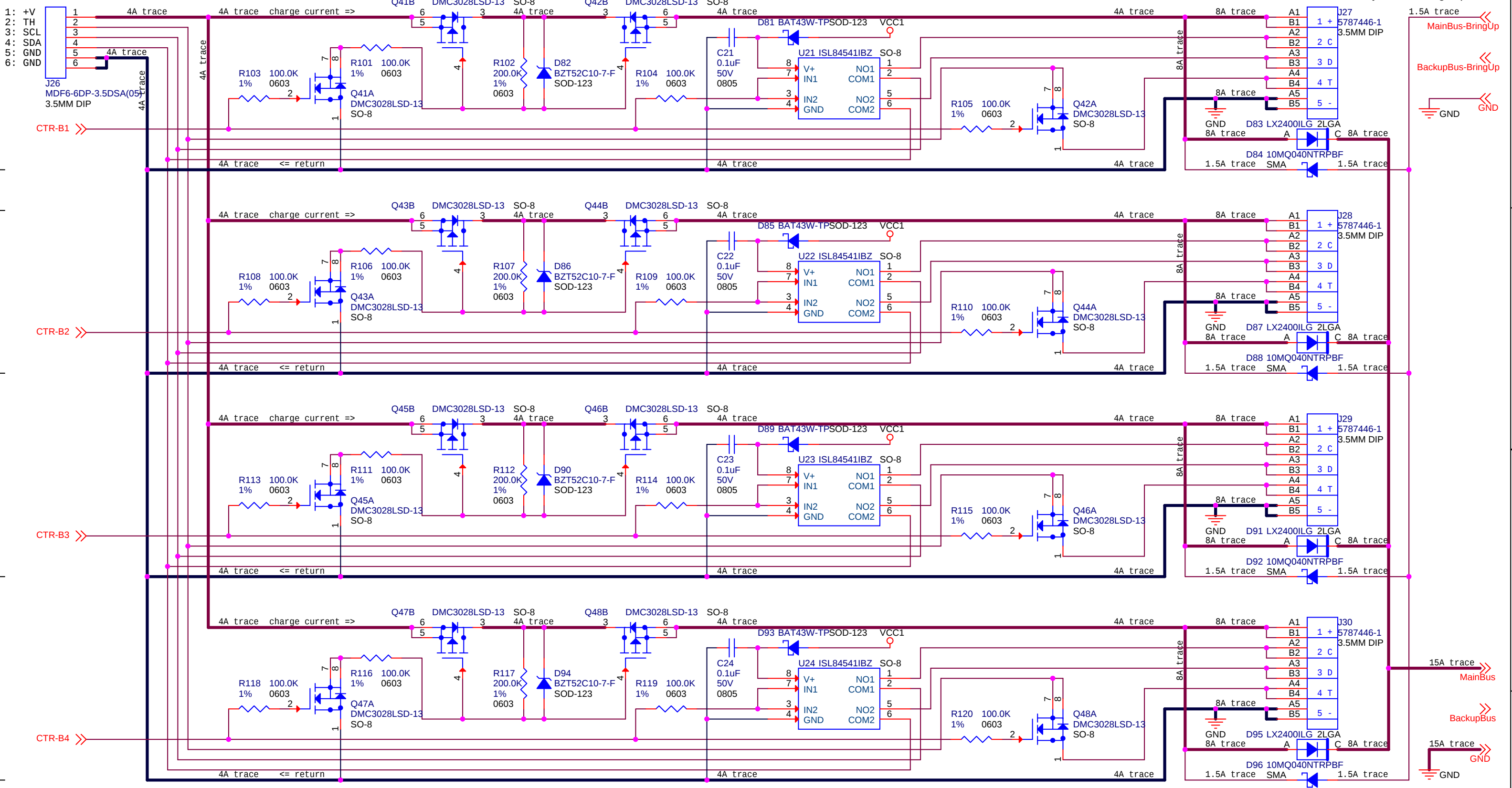


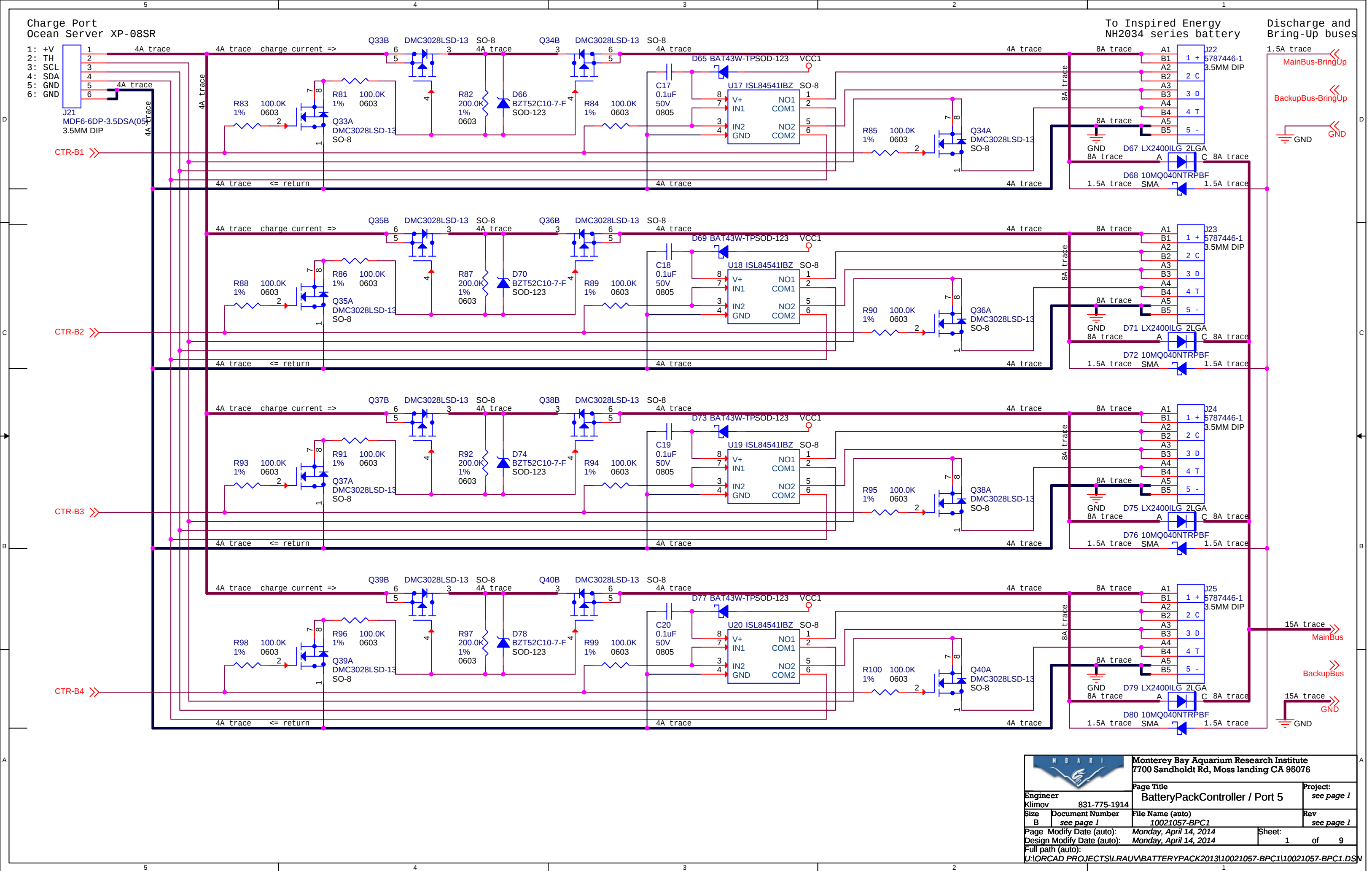
Decade Counter 3-18V, 5uA with 5 ms reset line

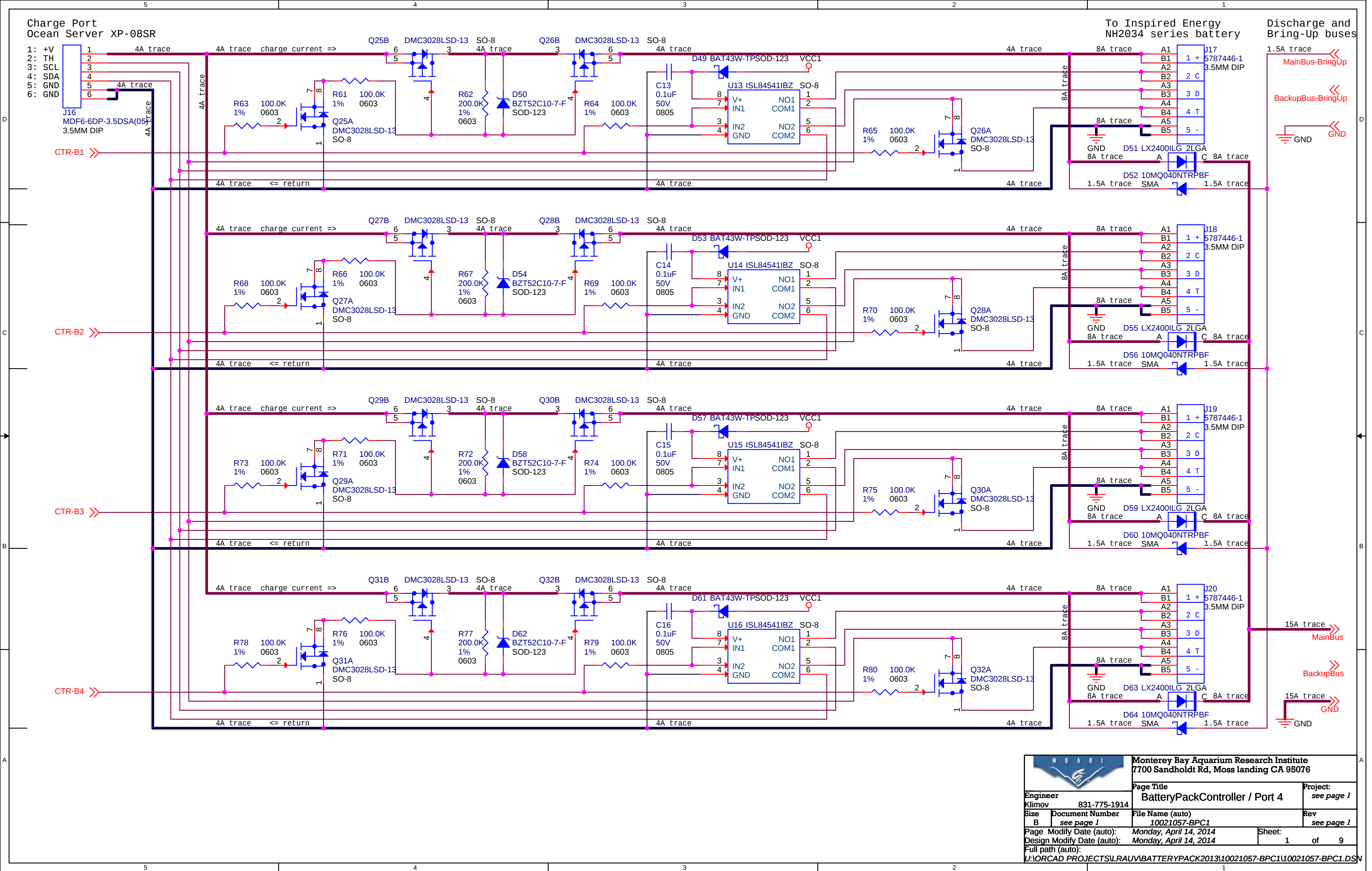


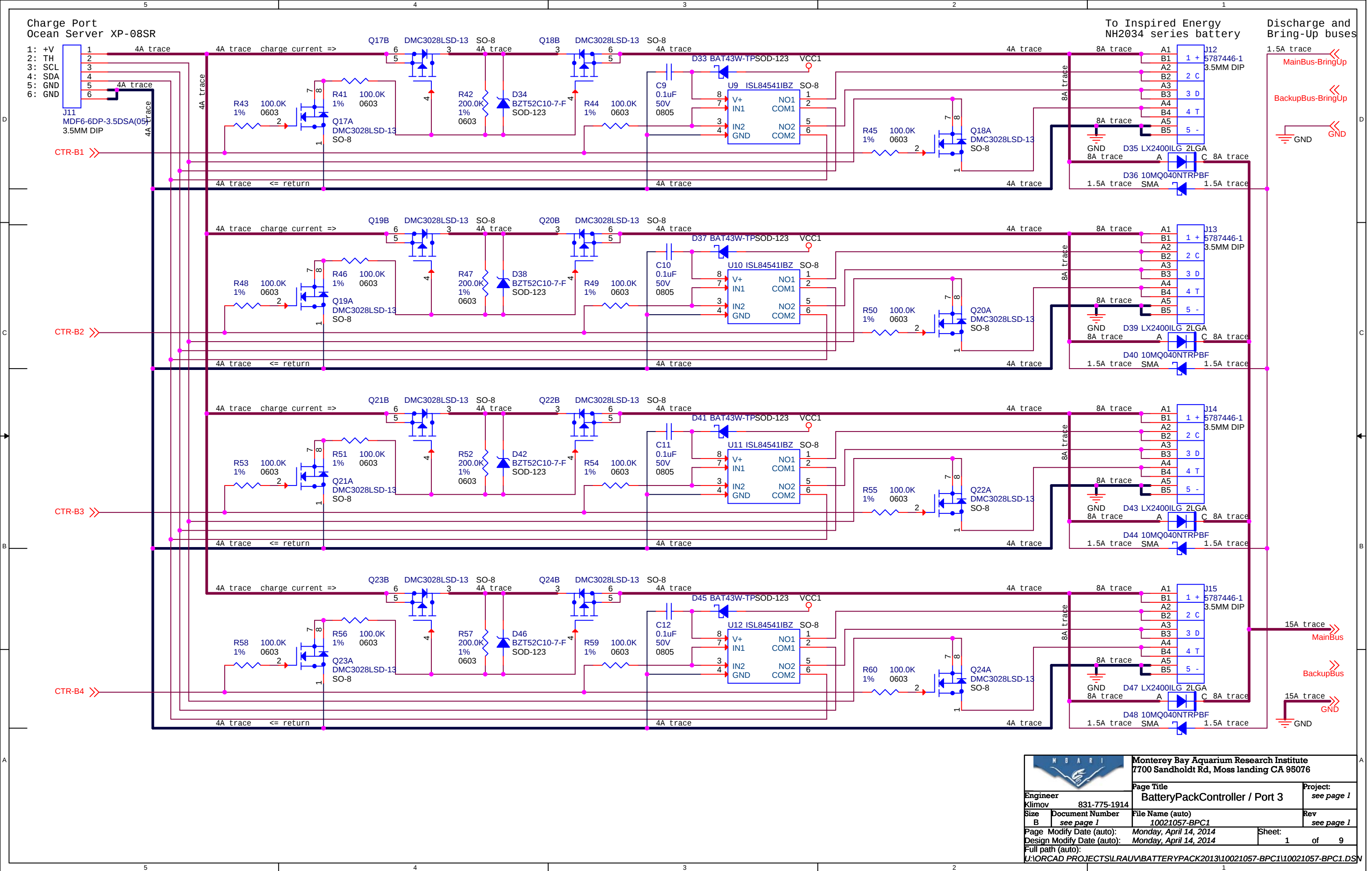


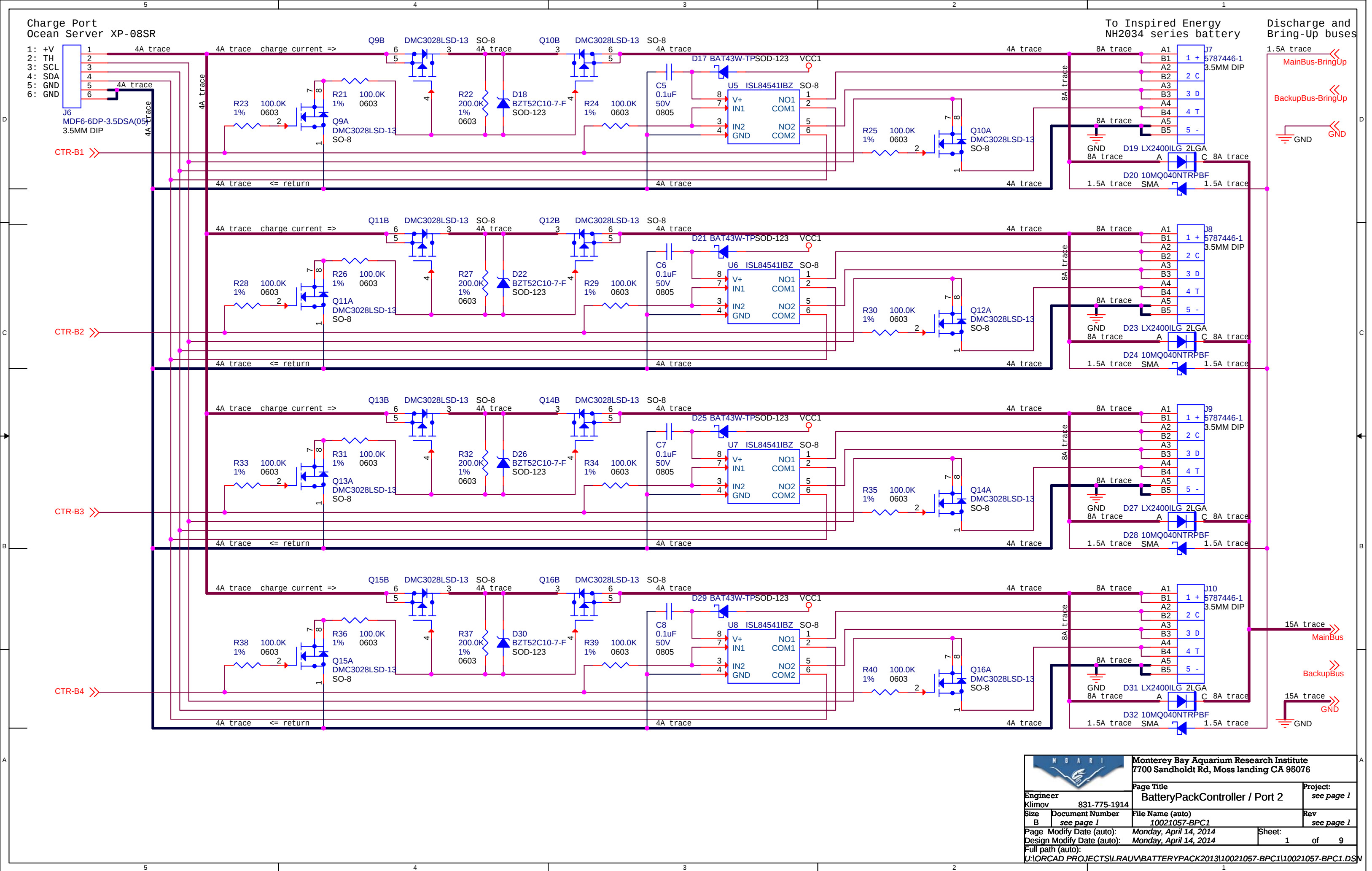
Charge Port
Ocean Server XP-08SR



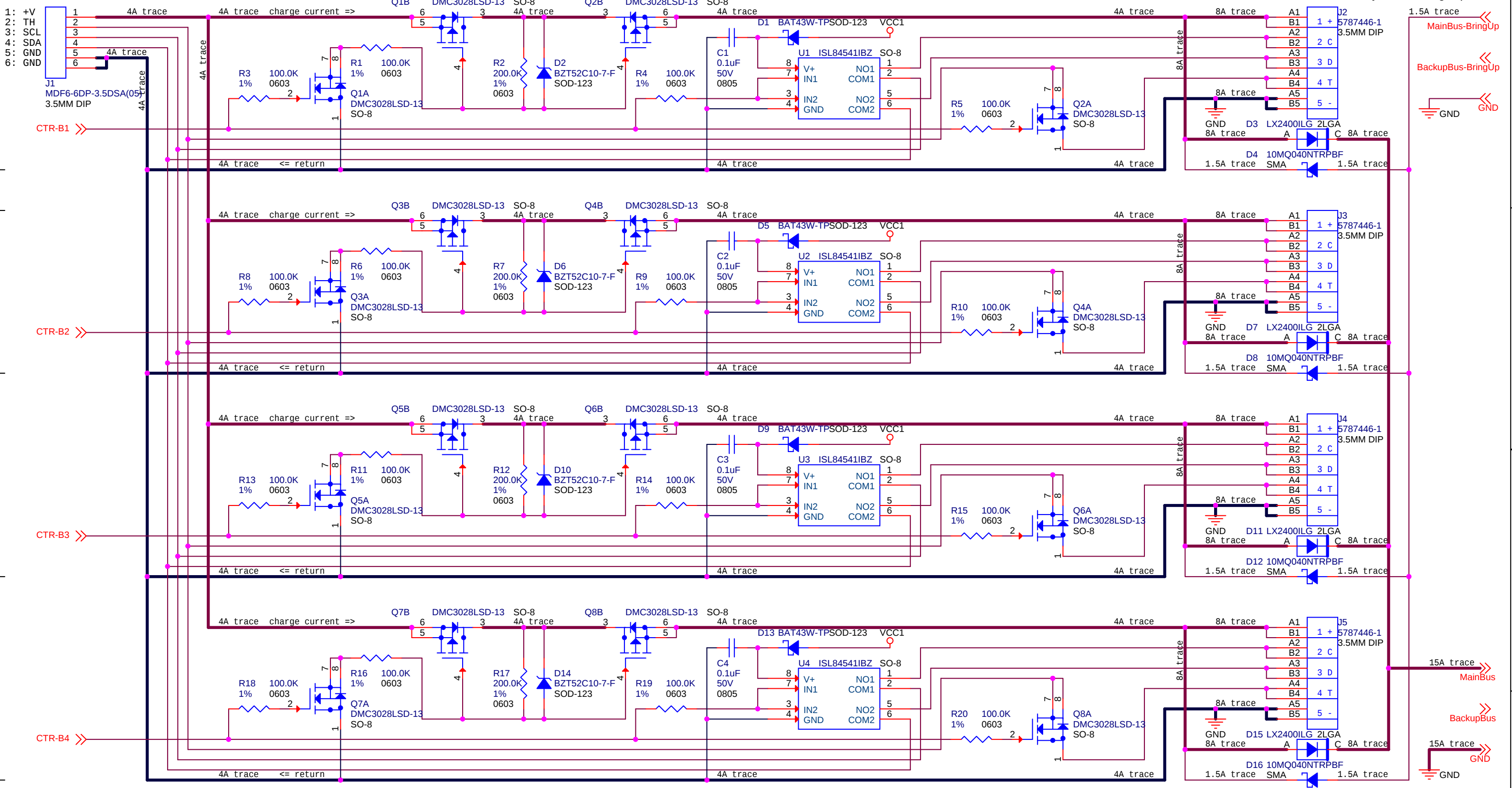








Charge Port
Ocean Server XP-08SR



DRAFT

Rev0(xx/xx/xxxx): Initial Release



Monterey Bay Aquarium Research Institute
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Engineer Klimov 831-775-1914		BatteryPackController / Port 1		901400	
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