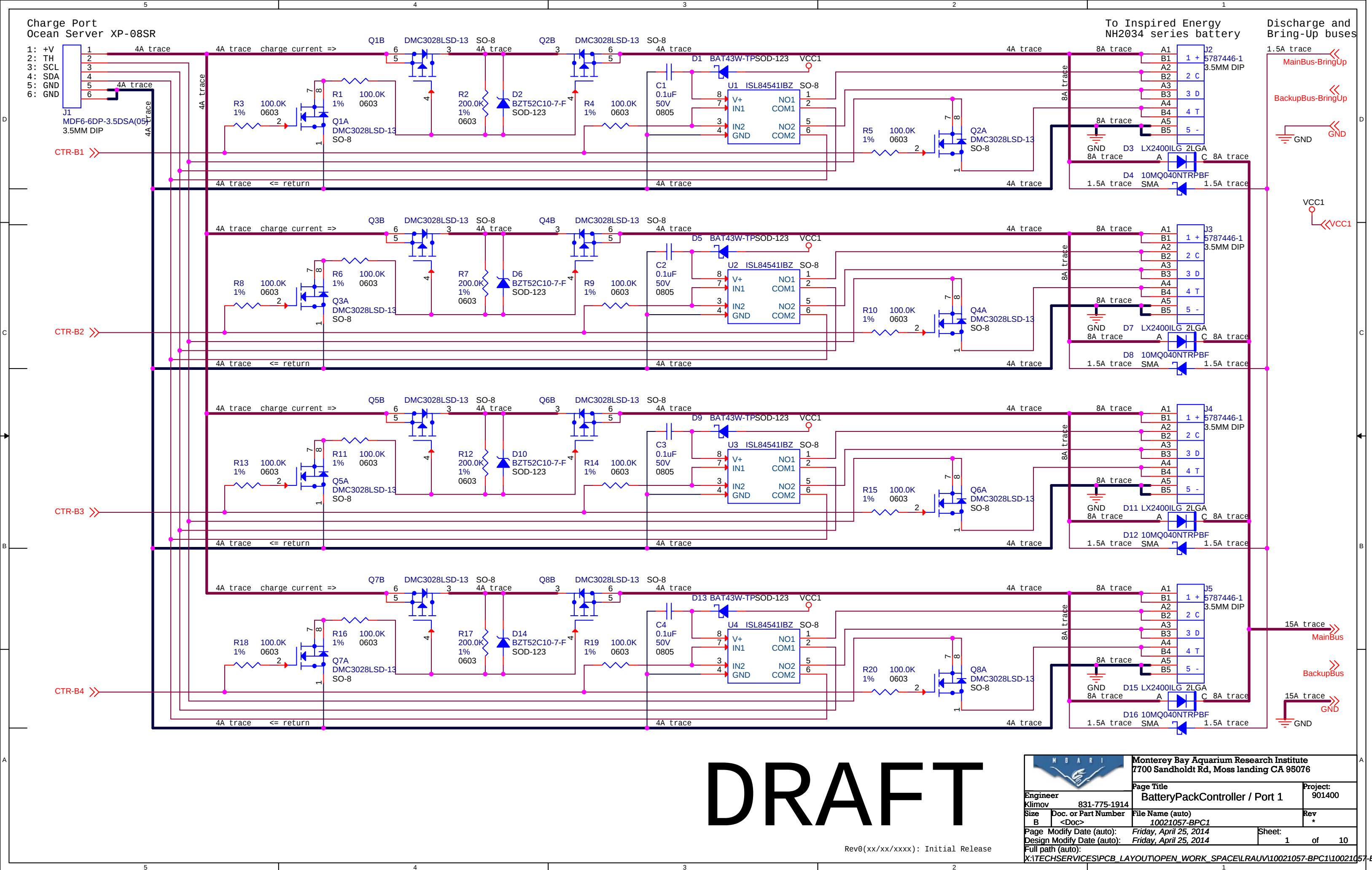
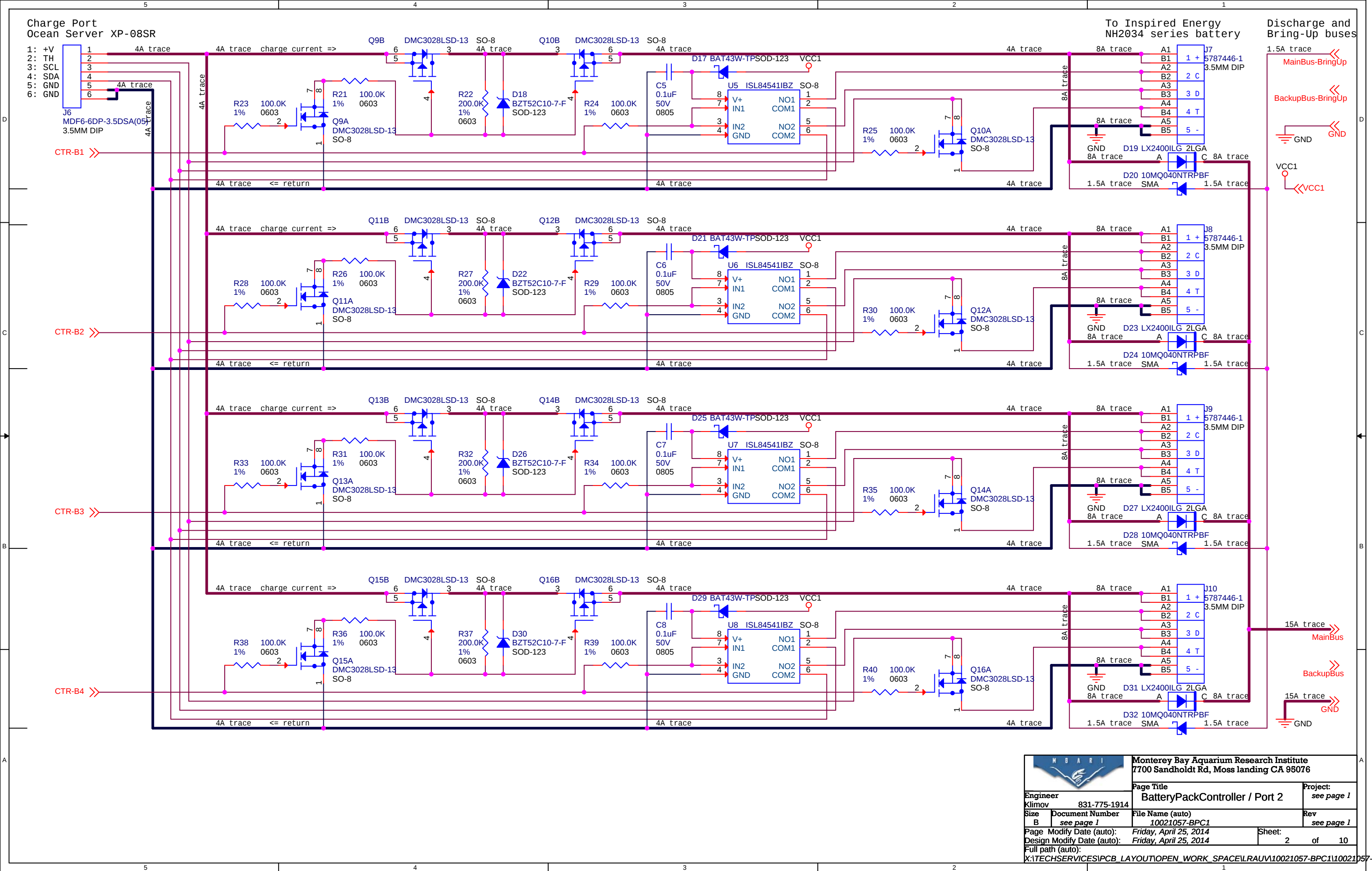
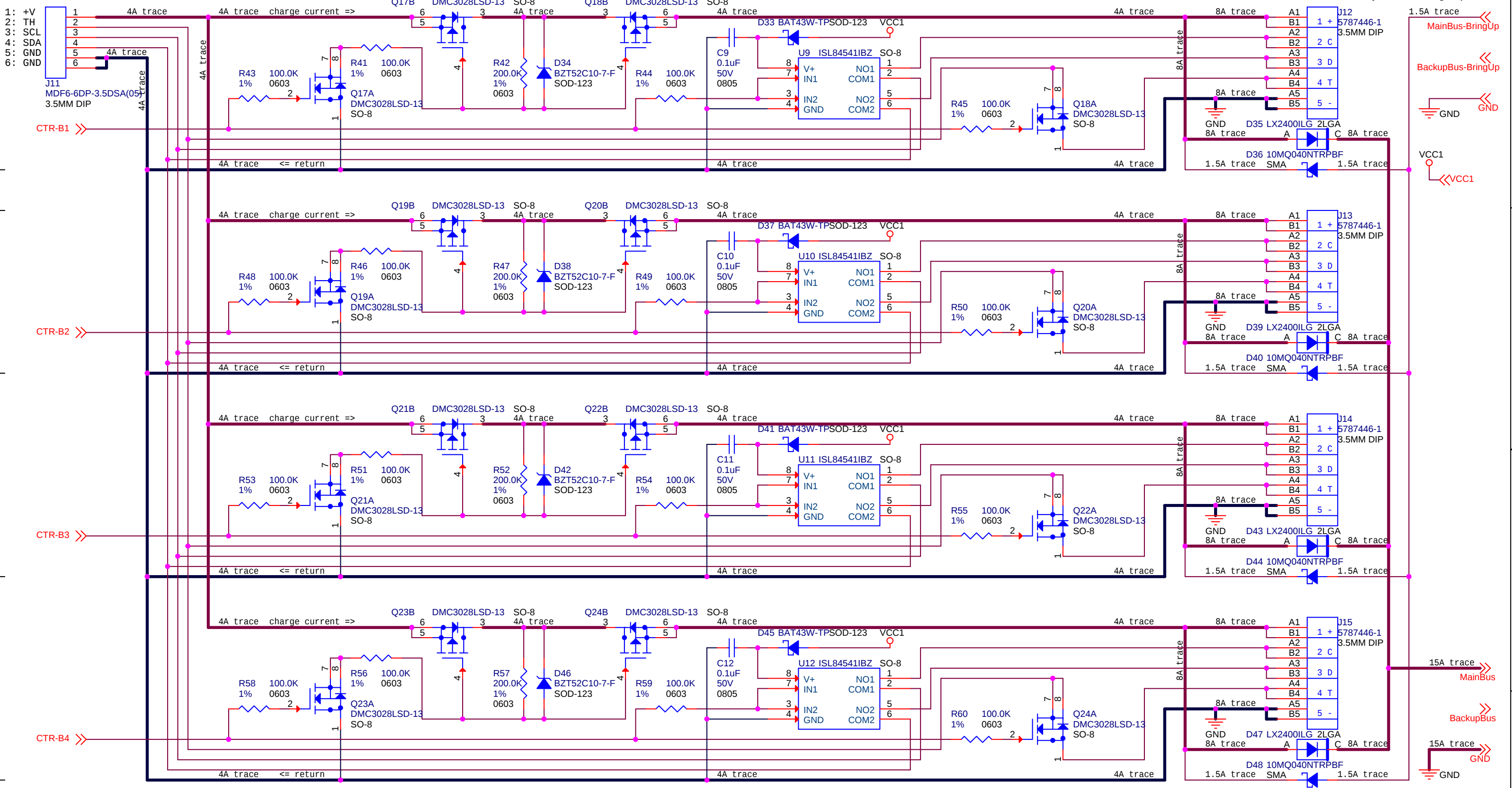




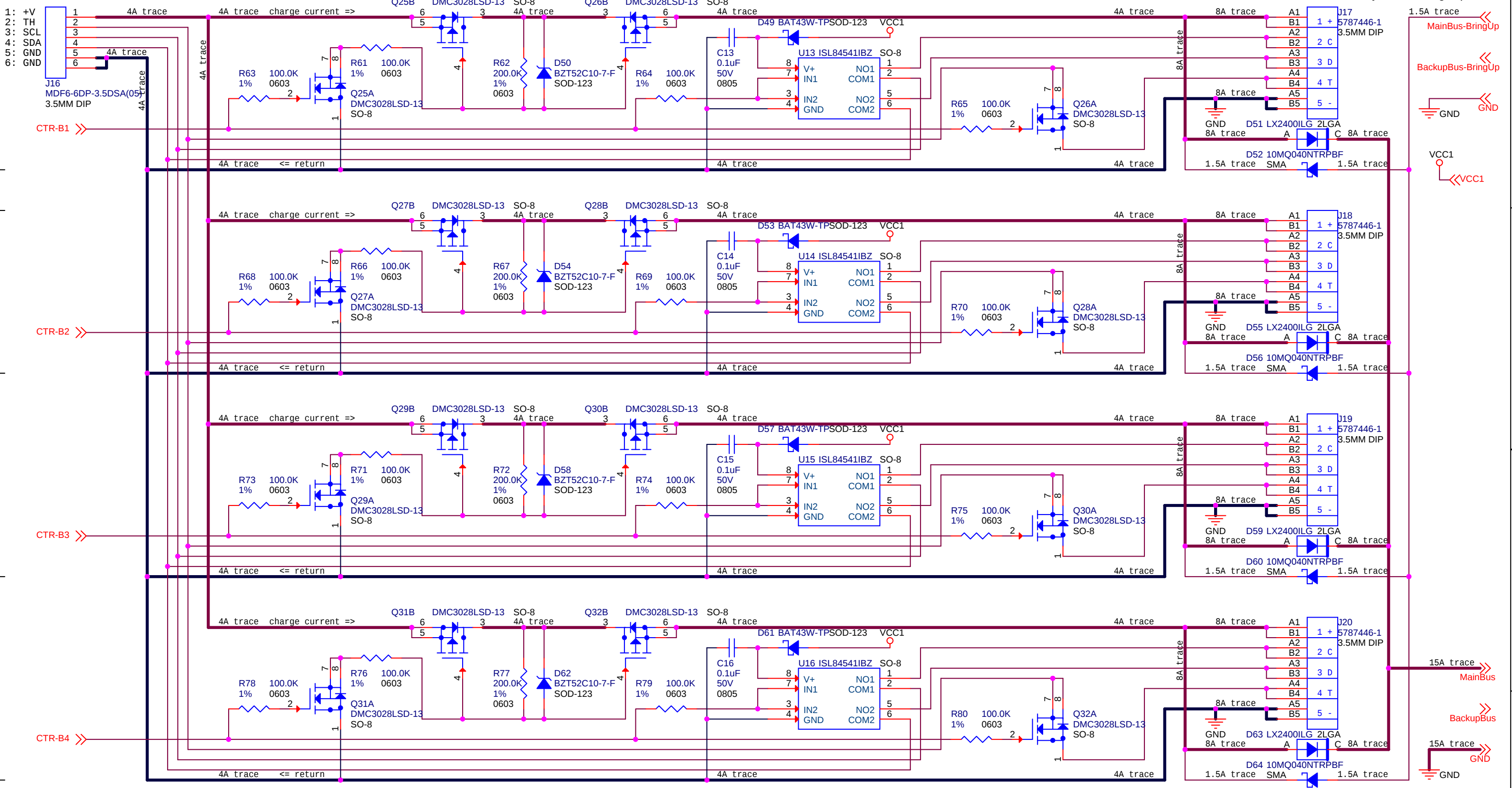
DRAFT



Charge Port
Ocean Server XP-08SR



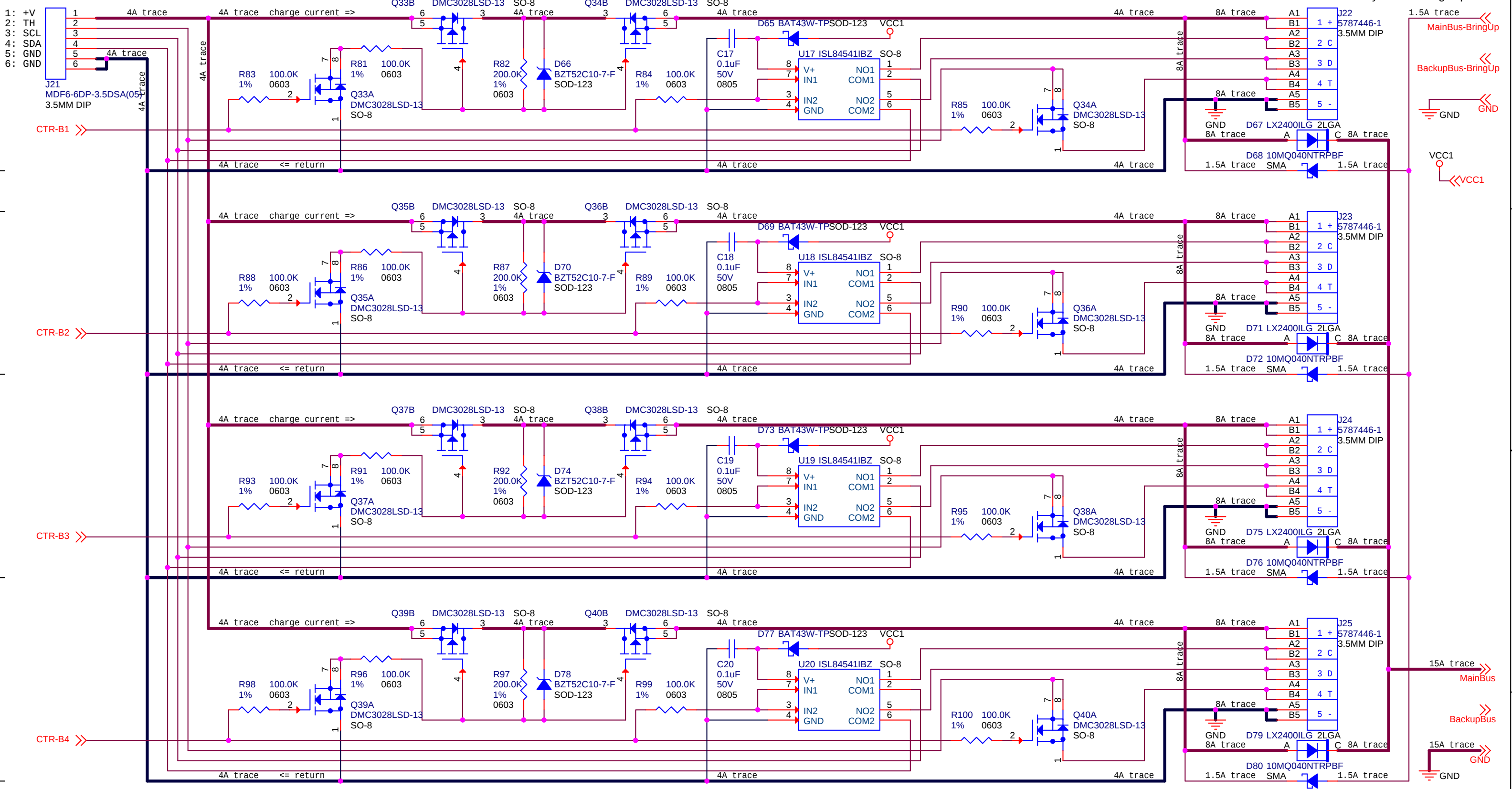
Charge Port
Ocean Server XP-08SR

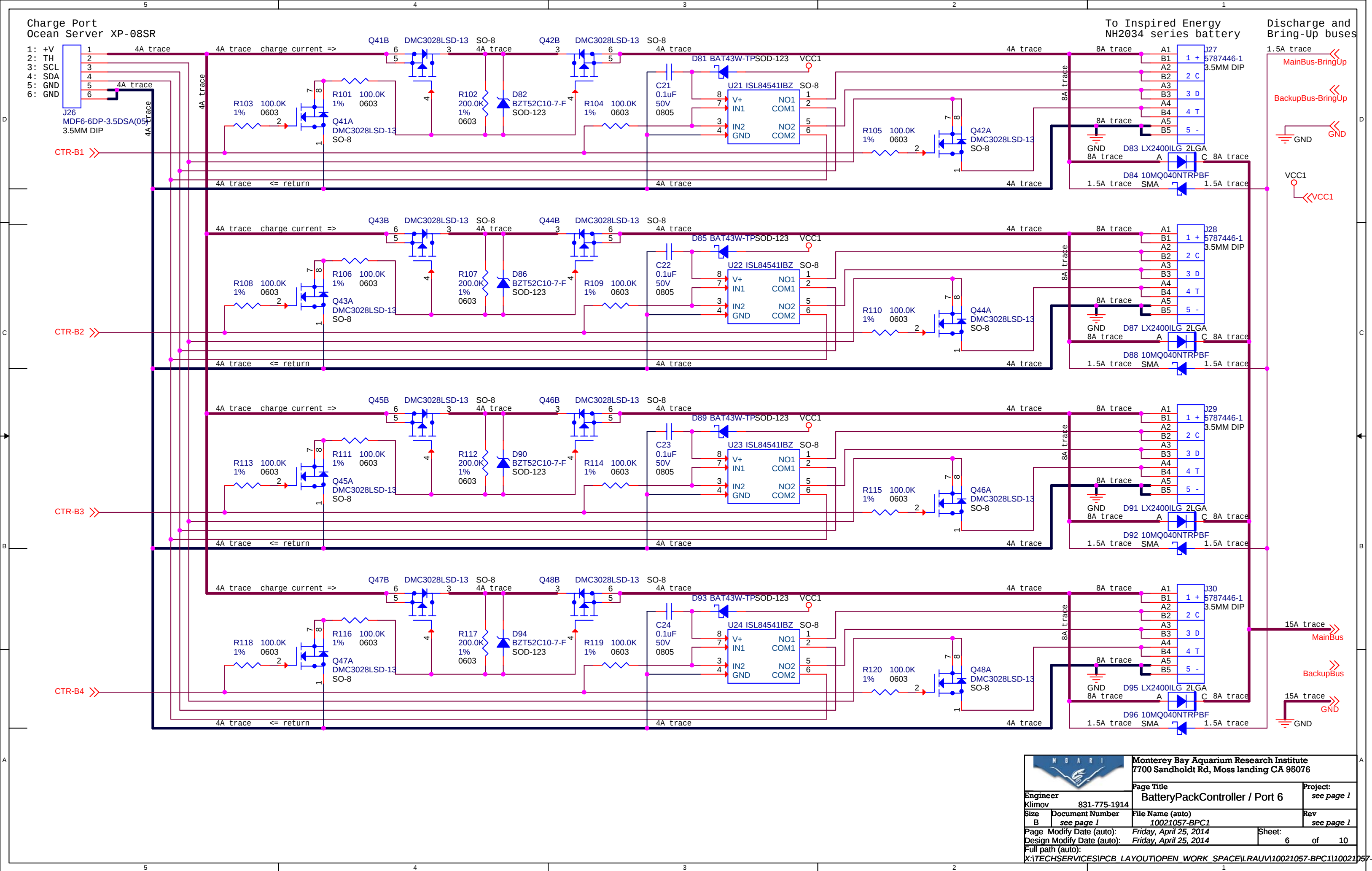


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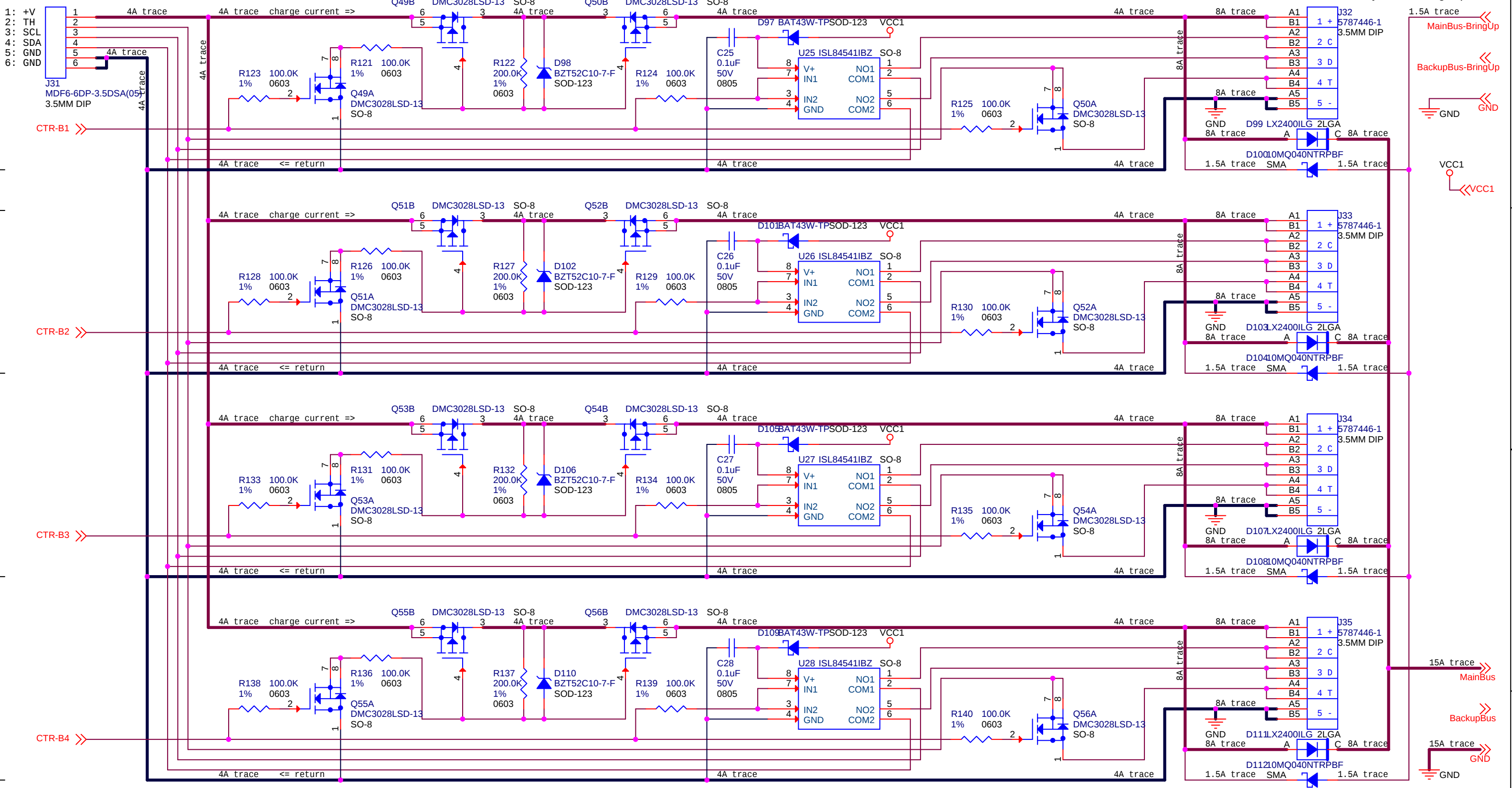
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Engineer		BatteryPackController / Port 4		see page 1	
Klimov 831-775-1914					
Size	Document Number	File Name (auto)		Rev	
B	see page 1	10021057-BPC1		see page 1	
Page Modify Date (auto):			Friday, April 25, 2014		Sheet:
Design Modify Date (auto):			Friday, April 25, 2014		
4 of 10					
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Charge Port
Ocean Server XP-08SR





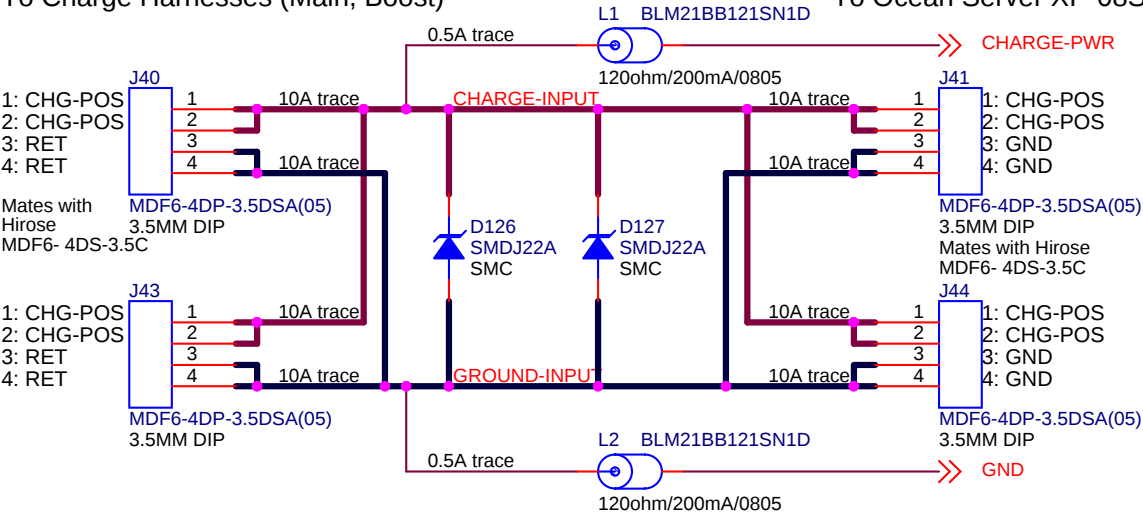
Charge Port
Ocean Server XP-08SR



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Page Title BatteryPackController / Port 7		Project: see page 1
Engineer Klimov	831-775-1914	Rev see page 1
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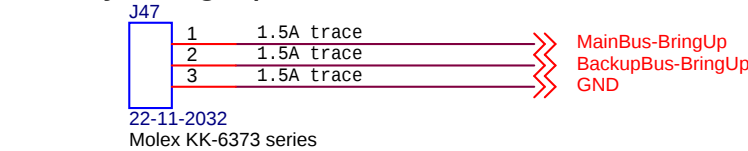
Charge inputs, power distribution to XP-08SR, charge power to charge flag section
To Charge Harnesses (Main, Boost) To Ocean Server XP-08SR



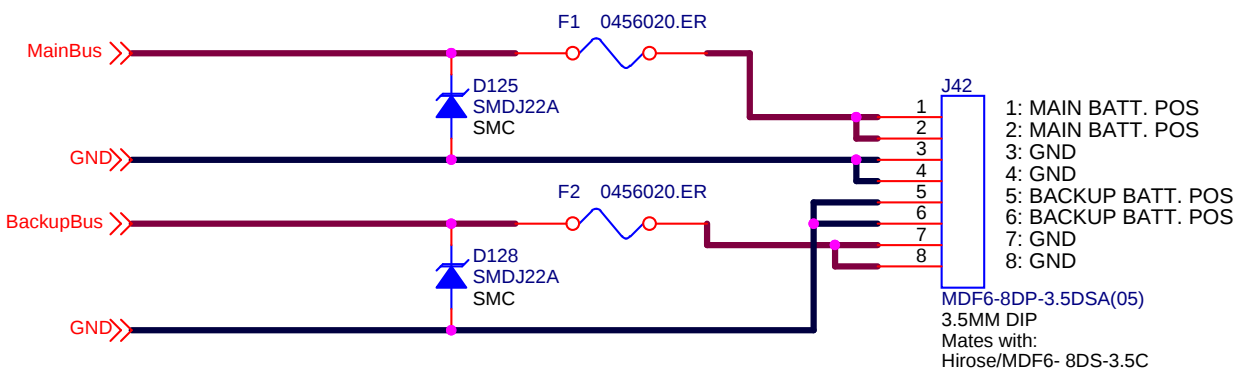
RS-232 pass-thru from discharge harness to Ocean Server XP-08SR
RS-232 port to MB RS-232 to Ocean Server



Battery bring-up interface

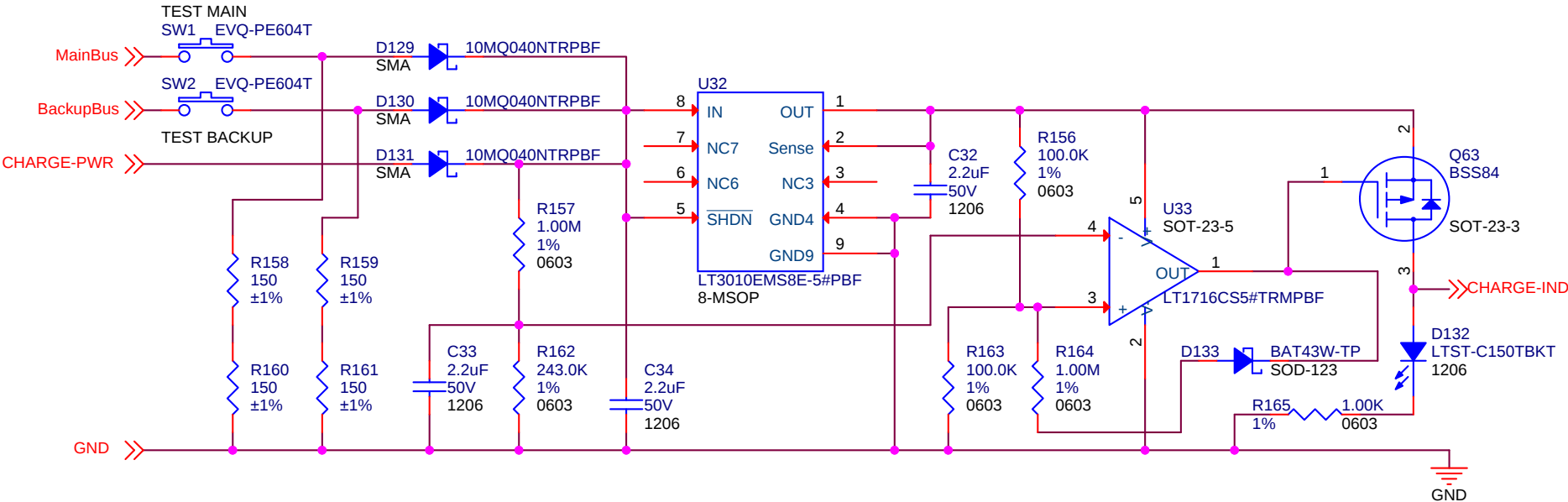


Outputs to mother board with fuse and TVS protection

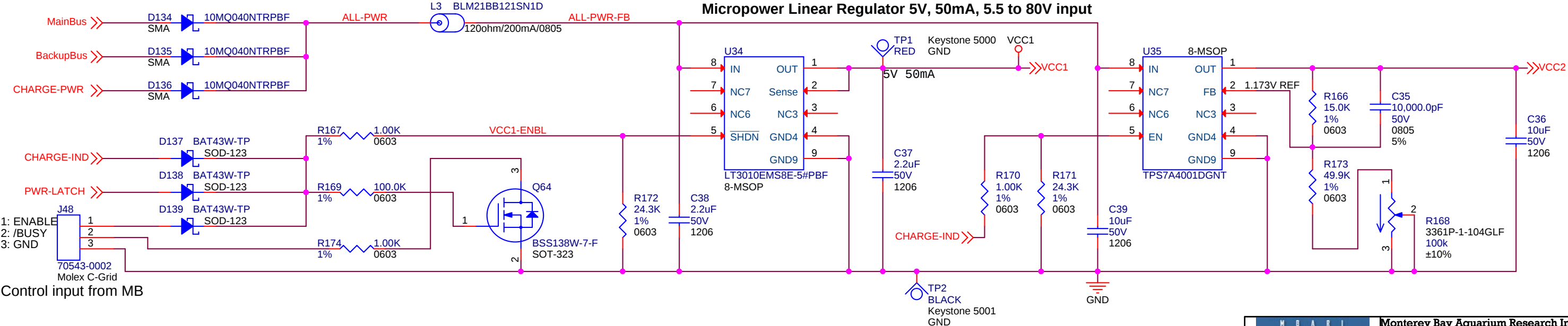


Charging currents required per Half-Pack:
18V: 8A initial, 12A final
20V: 7.9A initial, 11.2A final
22V: 7.2A initial, 10.2A final
24V: 6.6A initial, 9.4A final

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



Micropower Linear Regulator 5V, 50mA, 5.5 to 80V input



Control input from MB

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