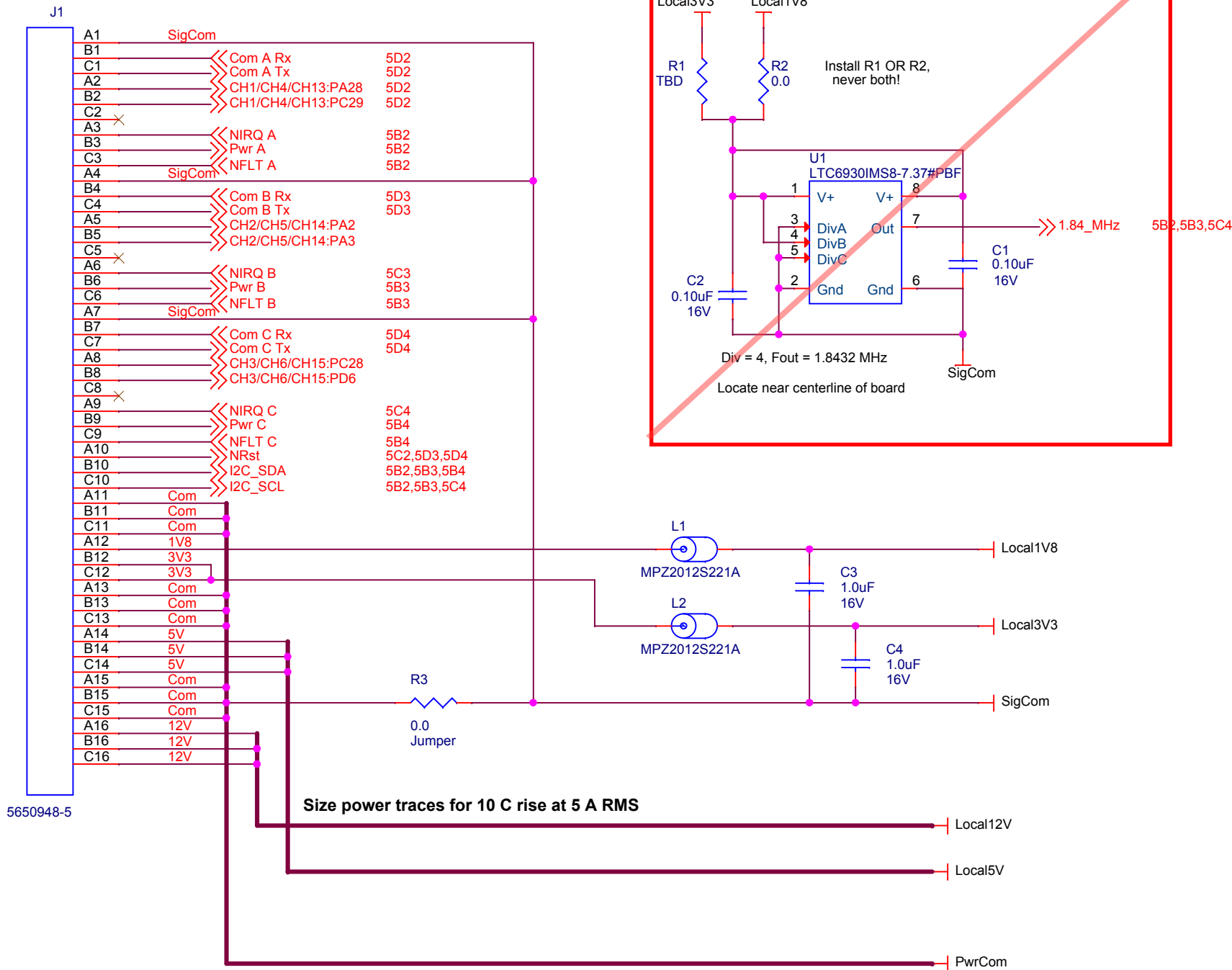


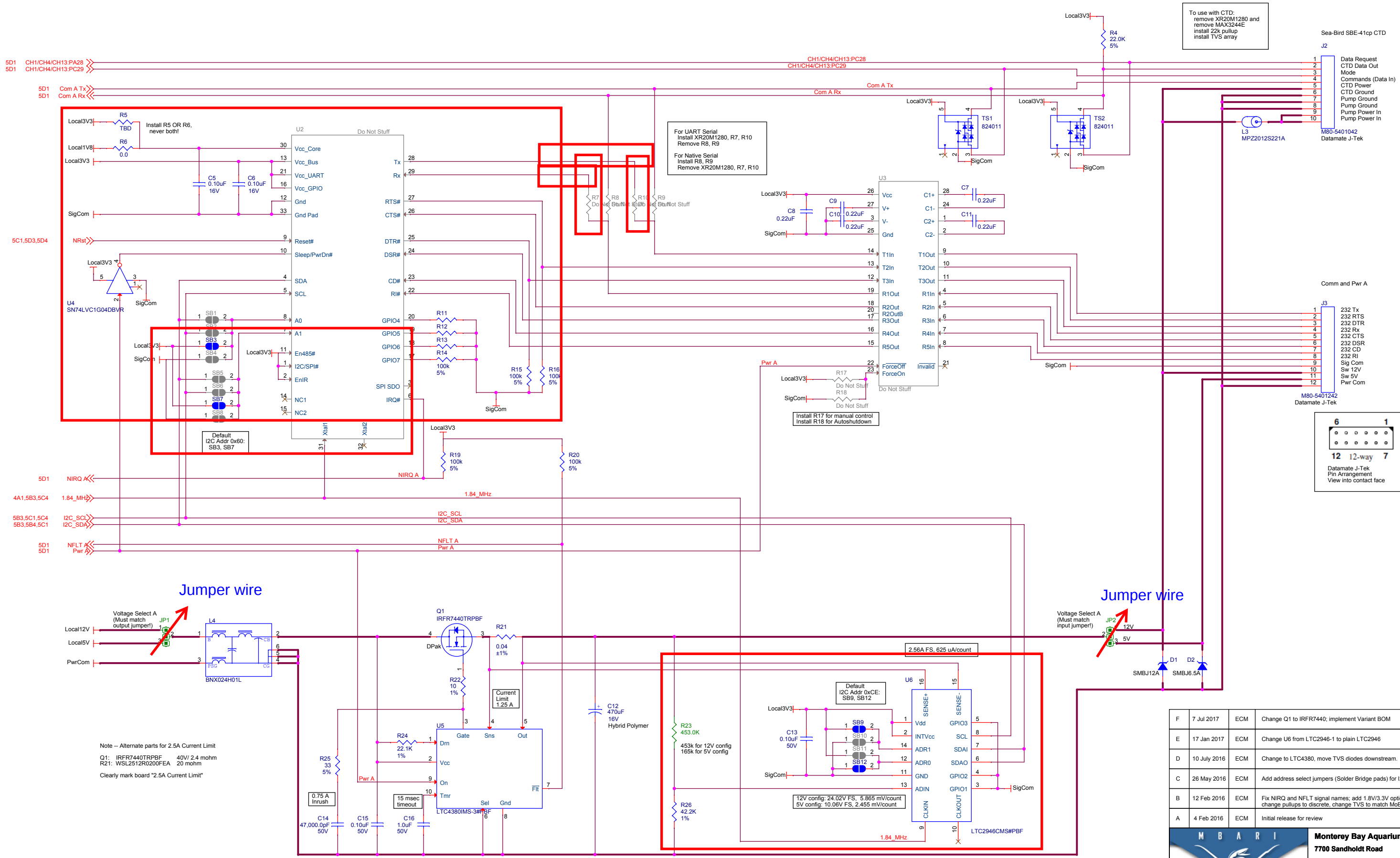


D	24 Aug 2016	ECM	Correct separation of Com and SigCom nets
C	26 May 2016	ECM	Change J1 signal names to match .XLS sheet 13 (18 Apr 16)
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for oscillator
A	4 Feb 2016	ECM	Initial release for review



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Title Schematic, Bus Interface, Power Switch Board, Coastal Profiling Float			Document Number 100221094	Rev D
Size B	Date: Wednesday, July 19, 2017	Engineer Mellinger		Sheet 1 of 5
Design File X:\CPFI\ELECTRICAL ENGR\ORCAD PROJECTS\IED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN				
Schematic Name 100221094CPF-PwrSwitchSchematic		Page Name 01BusInterface		Layout File <Layout File>



To use with CTD:
remove XR20M1280 and
remove MAX3244E
install 22k pullup
install TVS array

Sea-Bird SBE-41cp CTD

1	Data Request
2	CTD Data Out
3	Mode
4	Commands (Data In)
5	CTD Power
6	CTD Ground
7	Pump Ground
8	Pump Ground
9	Pump Power In
10	Pump Power In

M80-5401042
Datamate J-Tek

Comm and Pwr A

1	232 Tx
2	232 RTS
3	232 Rx
4	232 CTS
5	232 DSR
6	232 CD
7	232 RI
8	Sig Com
9	Sw 12V
10	Sw 5V
11	Pwr Com
12	

M80-5401242
Datamate J-Tek

12 12-way 7

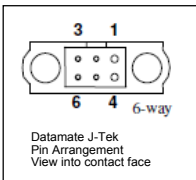
Datamate J-Tek
Pin Arrangement
View into contact face

F	7 Jul 2017	ECM	Change Q1 to IRRFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIROQ and NFLT signal names; add 1.8V/3.3V option for UART; change pullups to discrete, change TVS to match MoBo.
A	4 Feb 2016	ECM	Initial release for review

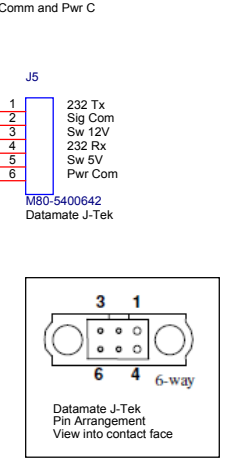
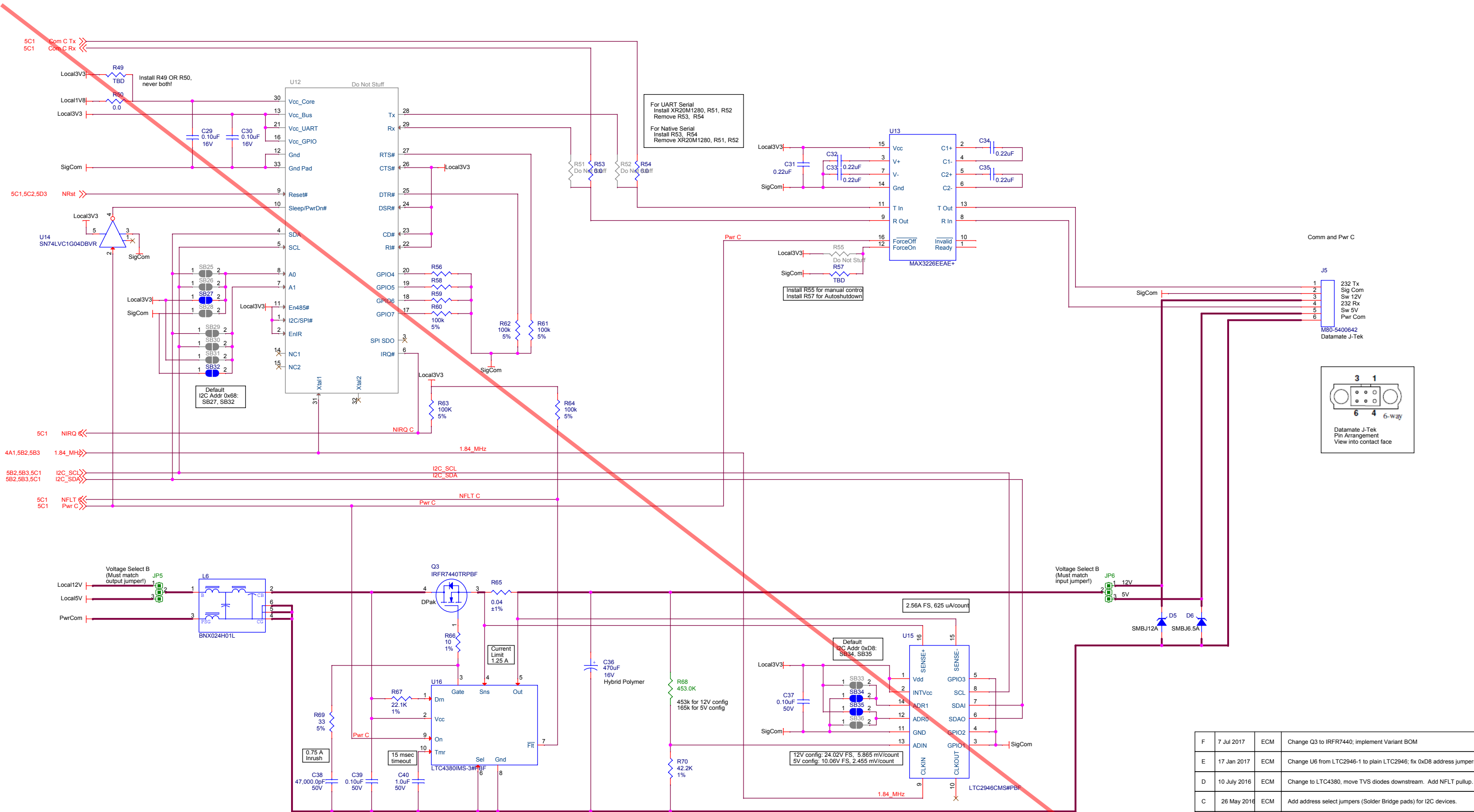


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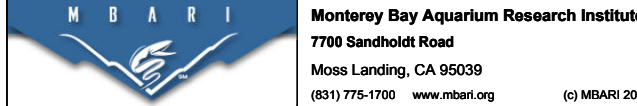
Title: Schematic, Channel A, Power Switch Board, Coastal Profiling Float		Document Number: 100221094	Rev: F
Size: Custom		Date: Thursday, July 20, 2017	Engineer: Mellinger
Design File: X:\CPFELECTRICAL\ENGR\ORCAD\PROJECTS\EDS\STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN		Page Name: 02ChannelA	Layout File: <Layout File>




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F	7 Jul 2017	ECM	Change Q3 to IREFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946; fix 0xD8 address jumpers
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for UART
A	1 Feb 2016	ECM	Initial release for review



Title Schematic, Channel C, Power Switch Board, Coastal Profiling Float			Document Number 100221094	Rev F
Size Custom	Date Wednesday, July 19, 2017	Engineer Mellinger	Sheet 4	of 5
Design File X:\CPPIELECTRICAL\ENGR\ORCAD PROJECTS\EDS STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN				
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