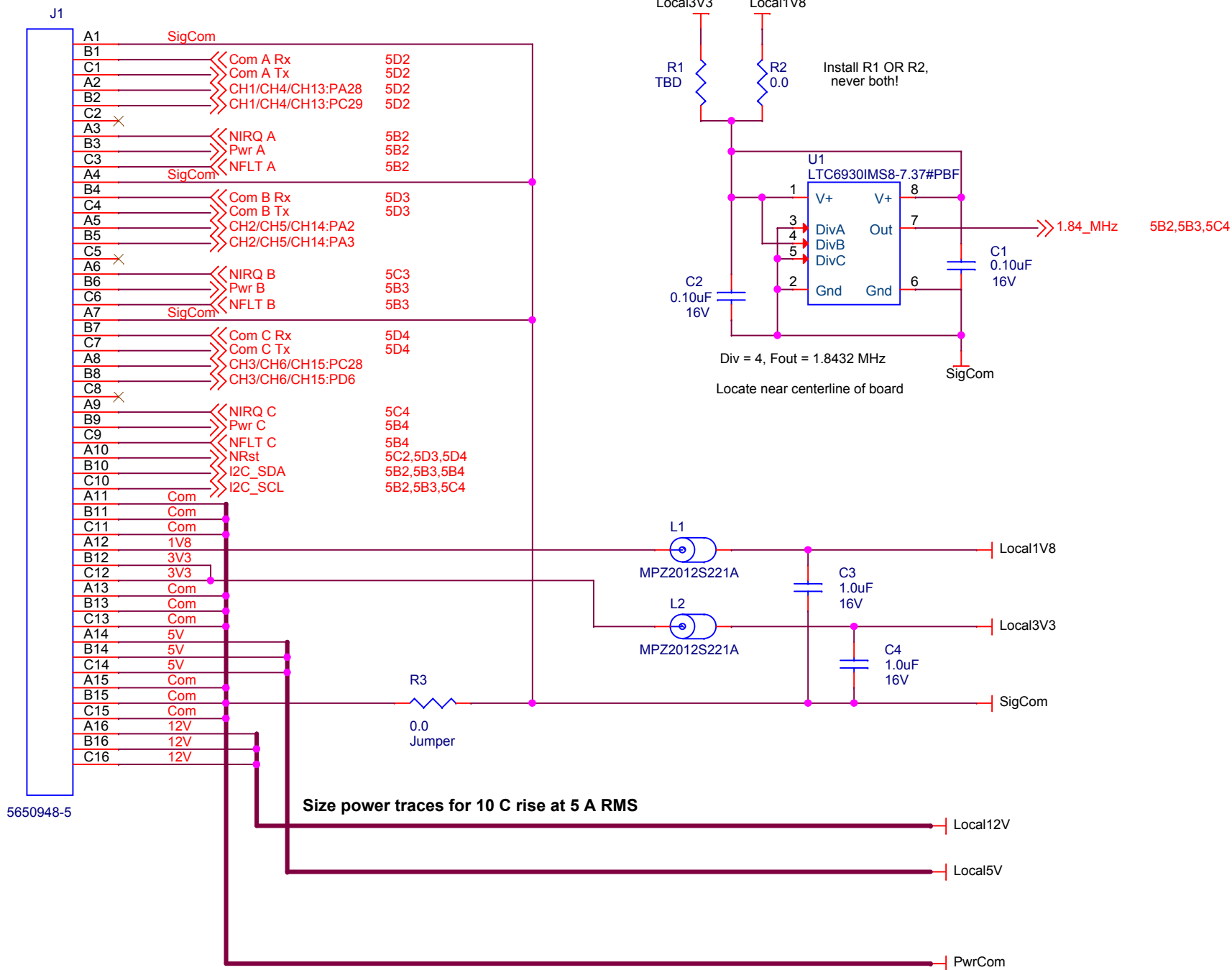


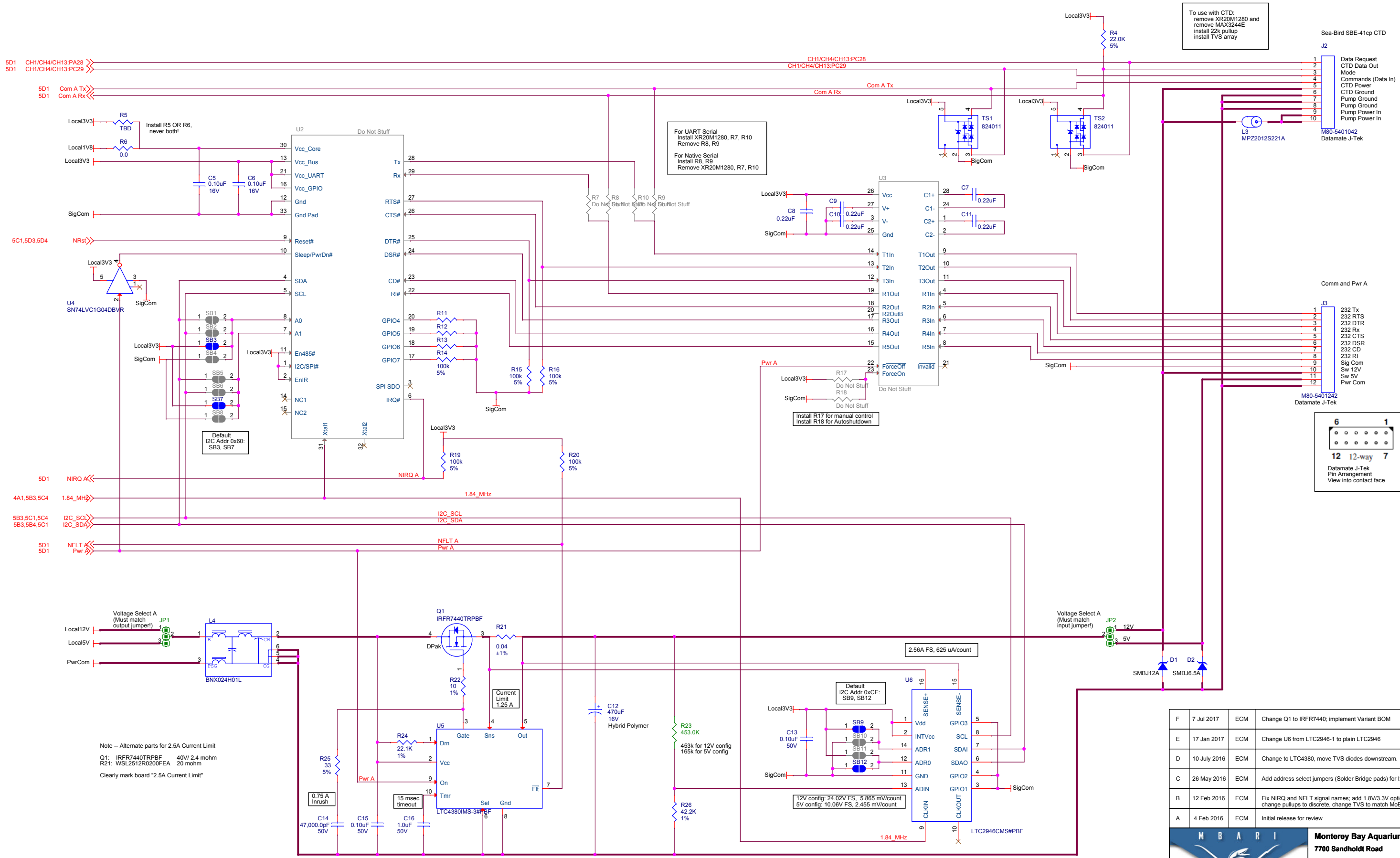


D	24 Aug 2016	ECM	Correct separation of Com and SigCom nets
C	26 May 2016	ECM	Change J1 signal names to match .XLS sheet 13 (18 Apr 16)
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for oscillator
A	4 Feb 2016	ECM	Initial release for review



Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA 95039
(831) 775-1700 www.mbari.org (c) MBARI 2015

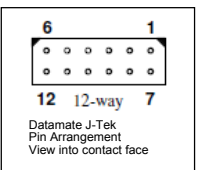
Title Schematic, Bus Interface, Power Switch Board, Coastal Profiling Float			Document Number 100221094	Rev D
Size B	Date: Wednesday, July 19, 2017	Engineer Mellinger	Sheet 1	of 5
Design File X:\CPFI\ELECTRICAL ENGR\ORCAD PROJECTS\IED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN				
Schematic Name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

- 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

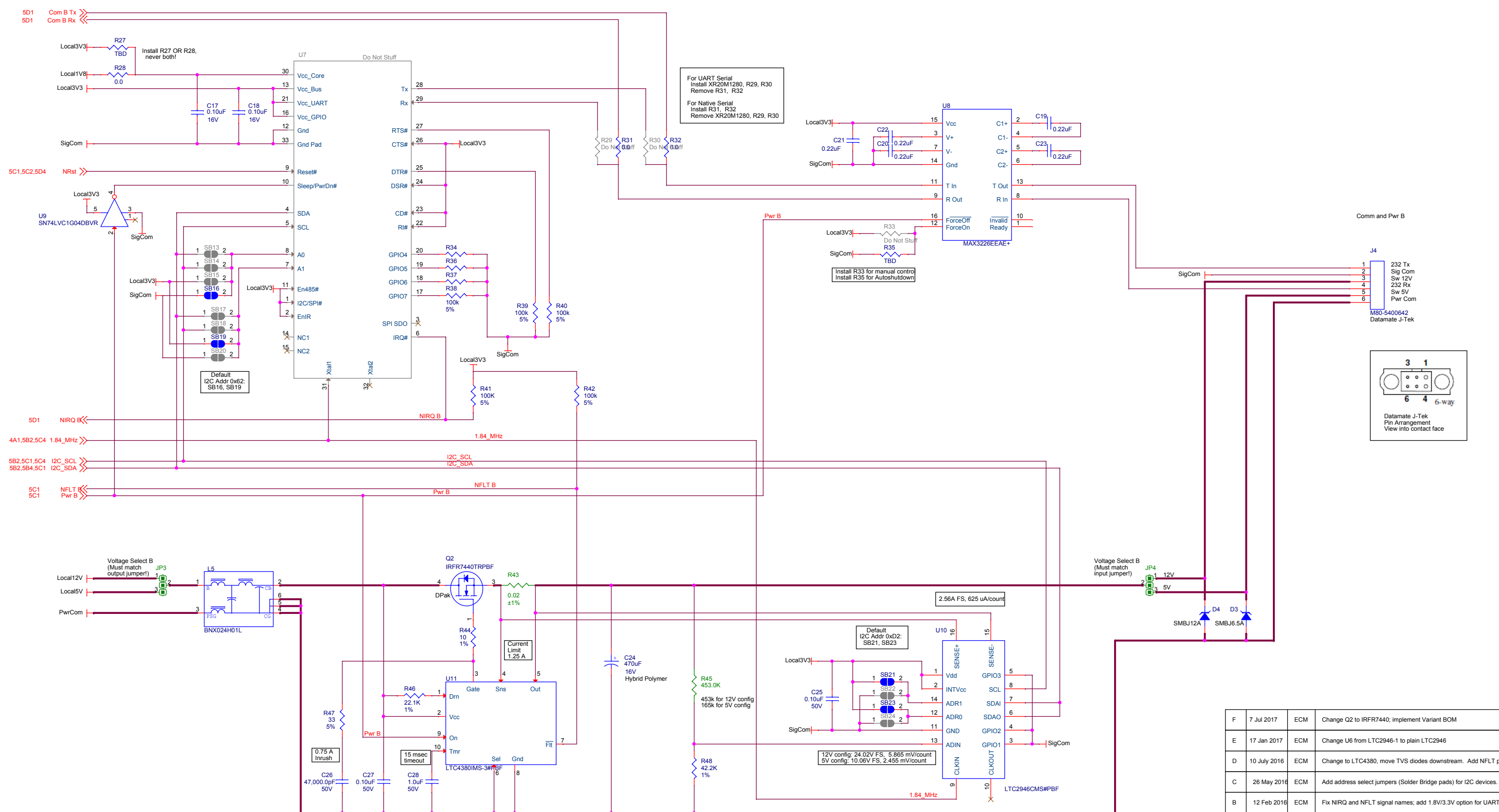


F	7 Jul 2017	ECM	Change Q1 to IFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRO 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



Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA 95039
(831) 775-1700 www.mbari.org (c) MBARI 2015

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\SED'S STUFF\SCHMATIC\100221094-CPF-POWERSWITCH.DSN		Page Name: 02ChannelA	Layout File: <Layout File>

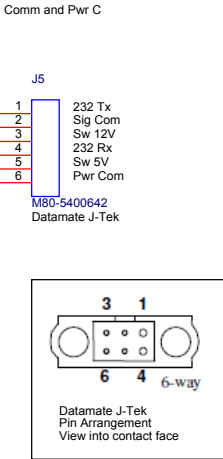


F	7 Jul 2017	ECM	Change Q2 to IRFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for UART
A	4 Feb 2016	ECM	Initial release for review



Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA 95039
(831) 775-1700 www.mbari.org (c) MBARI 2015

Title		Schematic, Channel B, Power Switch Board, Coastal Profiling Float		Document Number	100221094	Rev	F
Size		Custom		SN 2 CTD Nitrate unused			
Date:		Thursday, July 20, 2017		Engineer	Mellinger	Sheet	3 of 5
Design File		X:\CPPIELECTRICAL\ENGR\ORCAD PROJECTS\SED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN					
Schematic Name		100221094-CPF-PwrSwitchSchematic		Page Name	03ChannelB	Layout File	<Layout File>




Monterey Bay Aquarium Research Institute
 7700 Sandholdt Road
 Moss Landing, CA 95039
 (831) 775-1700 www.mbari.org (c) MBARI 2015

5		4		3		2		1	
D									