Charity: Water

AfriDev

REVISION HISTORY

DATE	*ENGINEER*	*REVISION*	*COMMENTS*
12/06/16	ML	1.0	Initial release for production
12/19/16	ML	1.1	Added fab notes for layer-to-layer registration, and bow and twist spec. Fixed Incorrect pin 1 marker on U3.
12/06/16	MD	1.2	Changed J4
1/29/18	MD	2.0	New GPS module; Added UART mux and level translation

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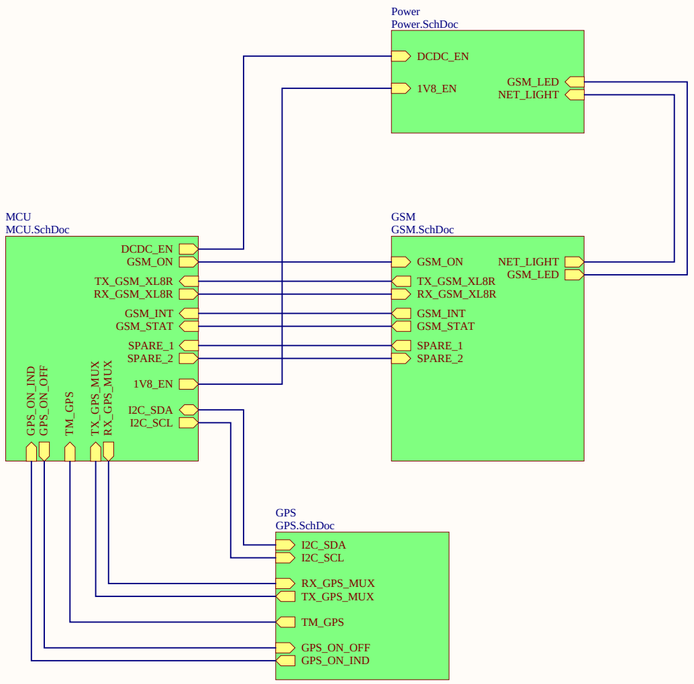
NOTES:

1: UNLESS OTHERWISE SPECIFIED

I. ALL RESISTORS ARE 1%

II. ALL CAPACITORS ARE 10% X7R OR X5R

Title: *Title*			Drawn By: MD Checked By:	*Charity: Water* *40 Worth St #330* *New York, NY 10013*
Project Name: AfriDev		Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018	Time: 6:17:00 PM	SVN TAG: 12054	Sheet 1 of 7	File: Title.SchDoc

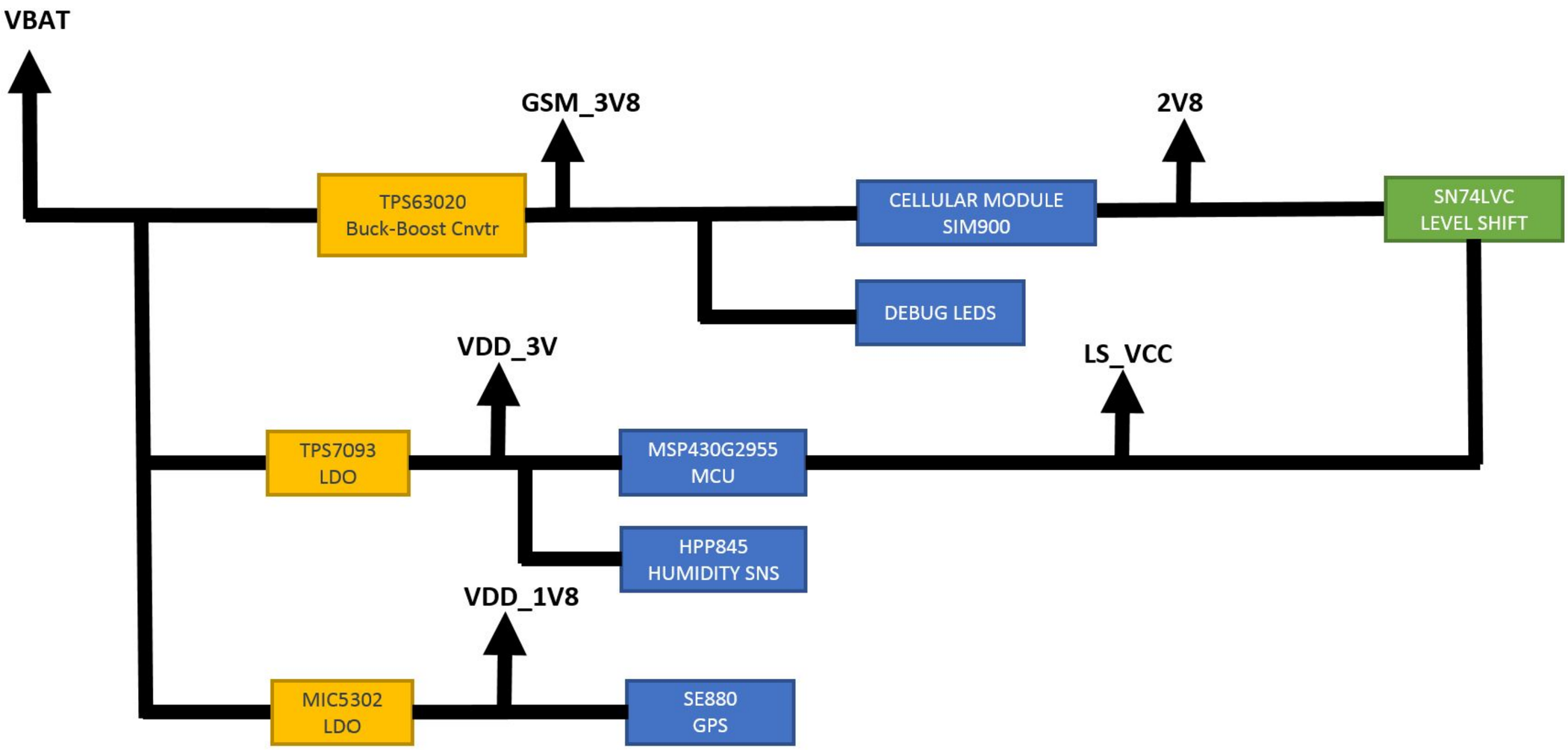


Title
Title.SchDoc

U_Power Tree
Power Tree.SchDoc

Title ***Title***			Drawn By: MD Checked By:	*Charity: Water* *40 Worth St #330* *New York, NY 10013*
Project Name: AfriDev		Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018	Time: 6:17:00 PM	SVN TAG: 12019	Sheet 2 of 7	File: Block Diagram.SchDoc

POWER TREE

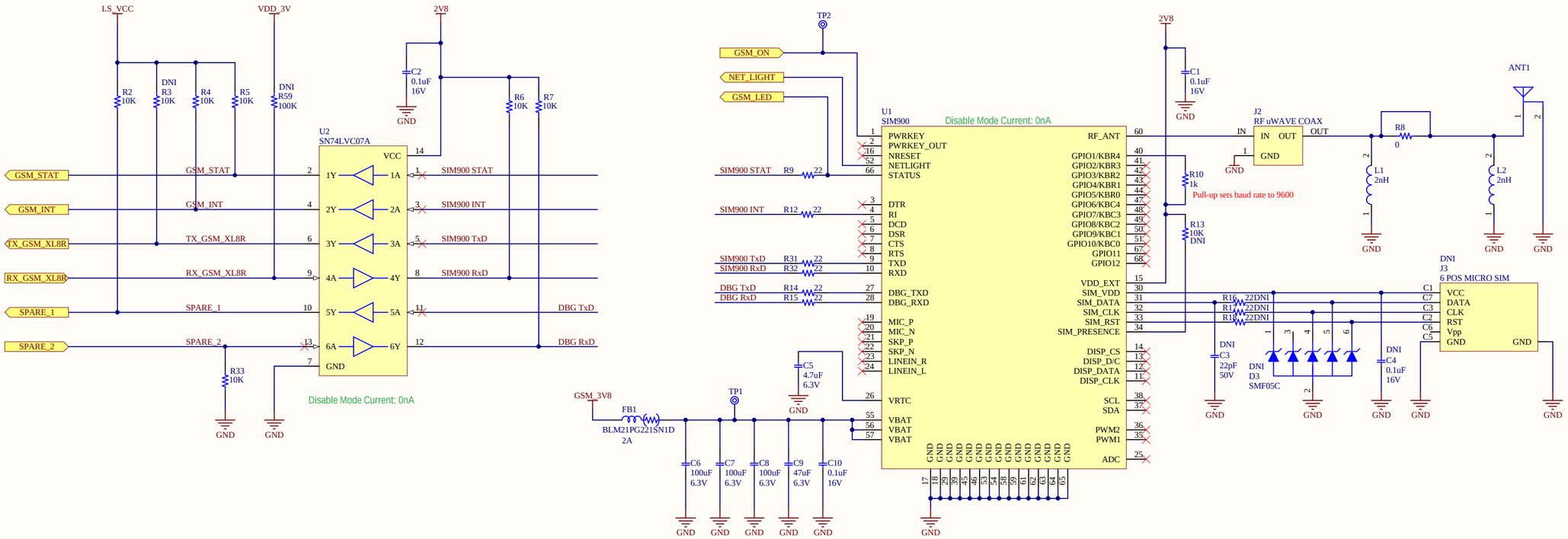


Title: *Power Tree*			Drawn By: MD Checked By:	*Charity: Water* *40 Worth St #330* *New York, NY 10013*
Project Name: AfriDev		Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018	Time: 6:17:00 PM	SVN TAG: 11950	Sheet 3 of 7	File: Power Tree.SchDoc

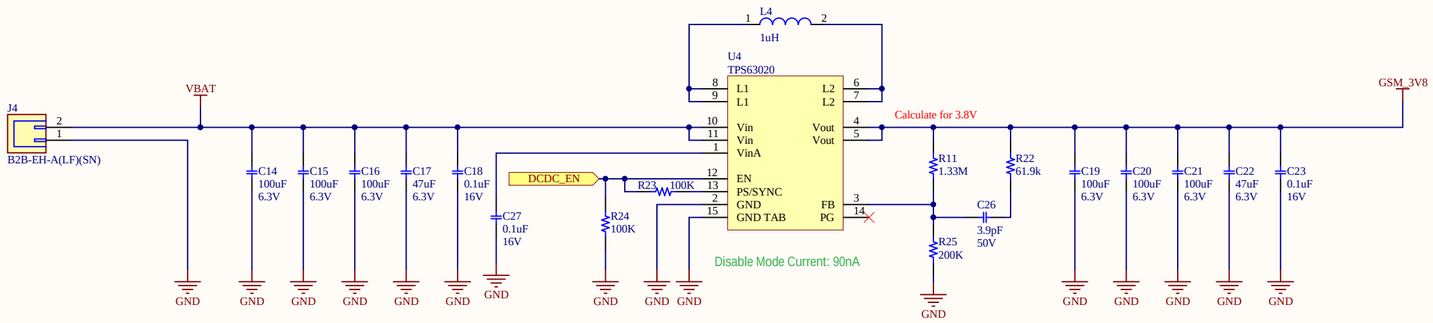
Fid1
Fiducial

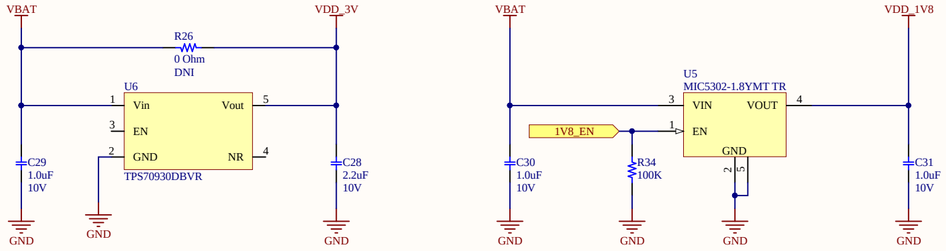
Fid2
Fiducial

Fid3
Fiducial

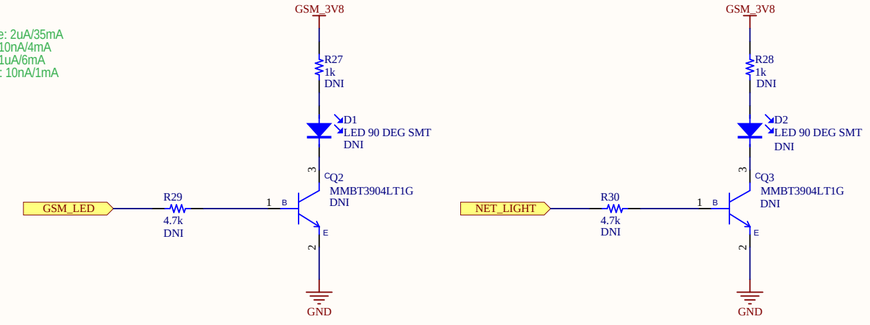


Title	GSM	Drawn By: MD Checked By:	Charity: Water 40 Worth St #330 New York, NY 10013
Project Name: AfriDev	Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018 Time: 6:17:00 PM	SVN TAG: 12036	Sheet 4 of 7	File: GSM.SchDoc

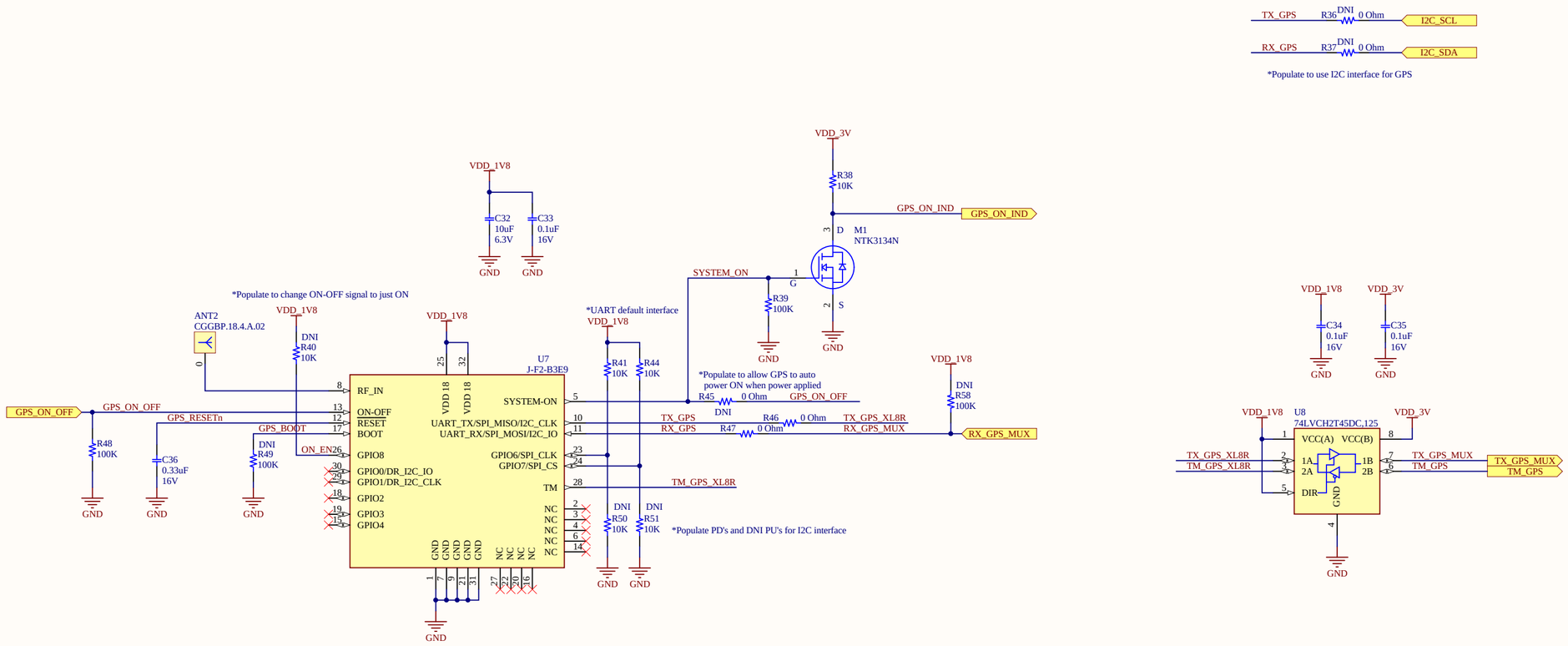




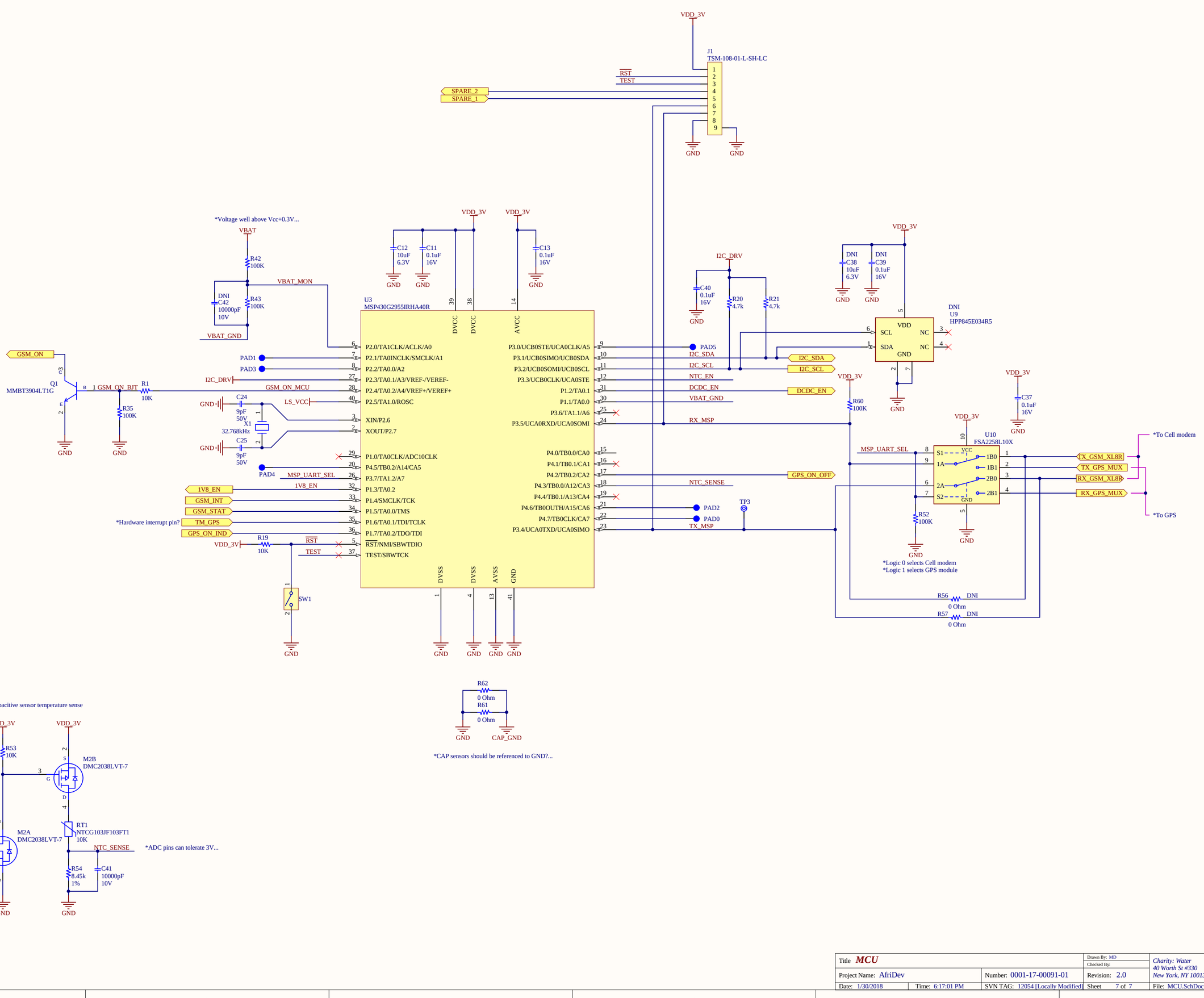
Ground Current
MIC29302: Shutdown/normal mode: 2uA/35mA
LP3856: Shutdown/normal mode: 10nA/4mA
LP3876: Shutdown/normal mode: 1uA/6mA
LT1764A: Shutdown/normal mode: 10nA/1mA



Title **Power**			Drawn By: MD	*Charity: Water*	
			Checked By:	*40 Worth St #330*	
Project Name: AfriDev		Number: 0001-17-00091-01	Revision: 2.0	*New York, NY 10013*	
Date: 1/30/2018	Time: 6:17:00 PM	SVN TAG: 12054	Sheet 5 of 7	File: Power.SchDoc	



Title GPS		Drawn By: MD Checked By:	Charity: Water 40 Worth St #330 New York, NY 10013
Project Name: AfriDev	Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018 Time: 6:17:01 PM	SVN TAG: 12054	Sheet 6 of 7	File: GPS.SchDoc



Title: MCU		Drawn By: MD / Checked By:	Charity: Water, 40 Worth St #330, New York, NY 10013
Project Name: AfriDev	Number: 0001-17-00091-01	Revision: 2.0	
Date: 1/30/2018	Time: 6:17:01 PM	SVN TAG: 12054 [Locally Modified]	Sheet 7 of 7 — File: MCU.SchDoc