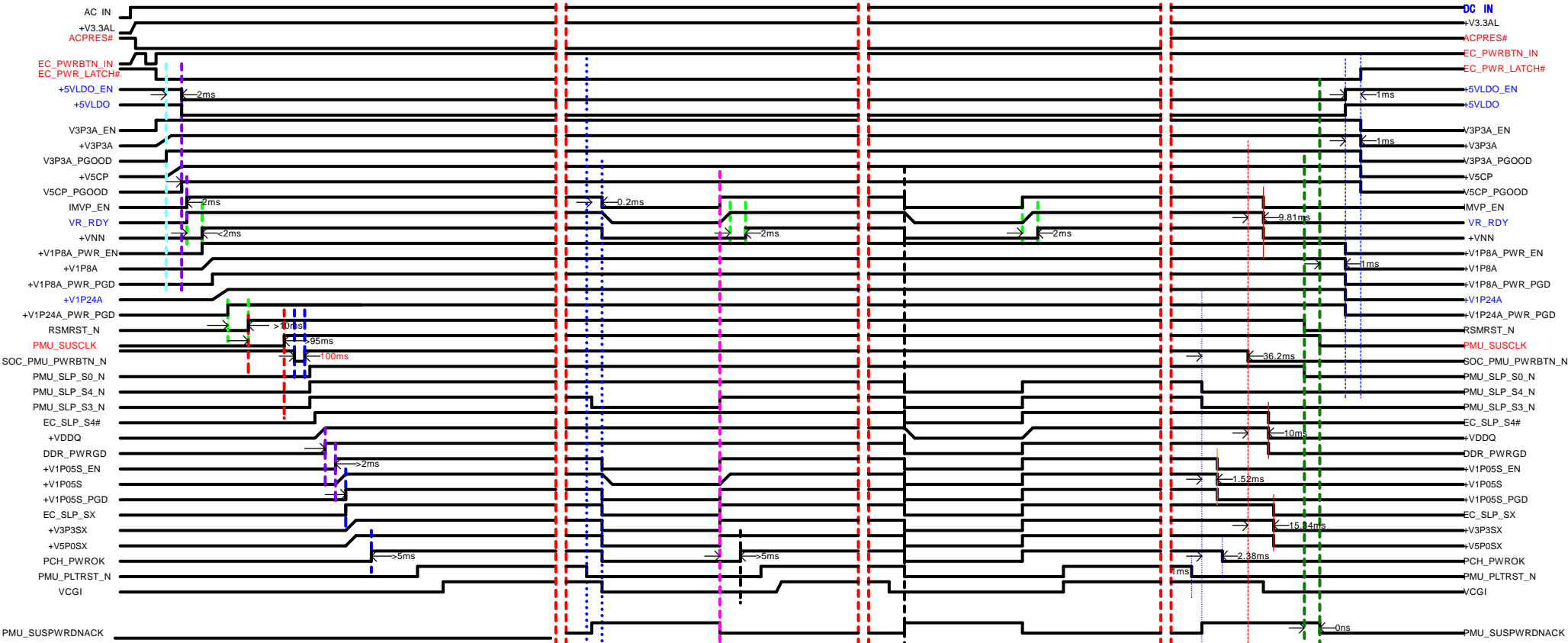


G3-S0

S0-S3-S0

S0-S4-S0

S0-G3



INTERNAL ONLY

BPAGE DRAWING

apl_R8A
Fri May 27 06:47:24 2016

		Project: 120S-11&14IAP	
Size		Engineer: Lear	
Custom	Title: <POWER SEQUENCE>	Rev V01	
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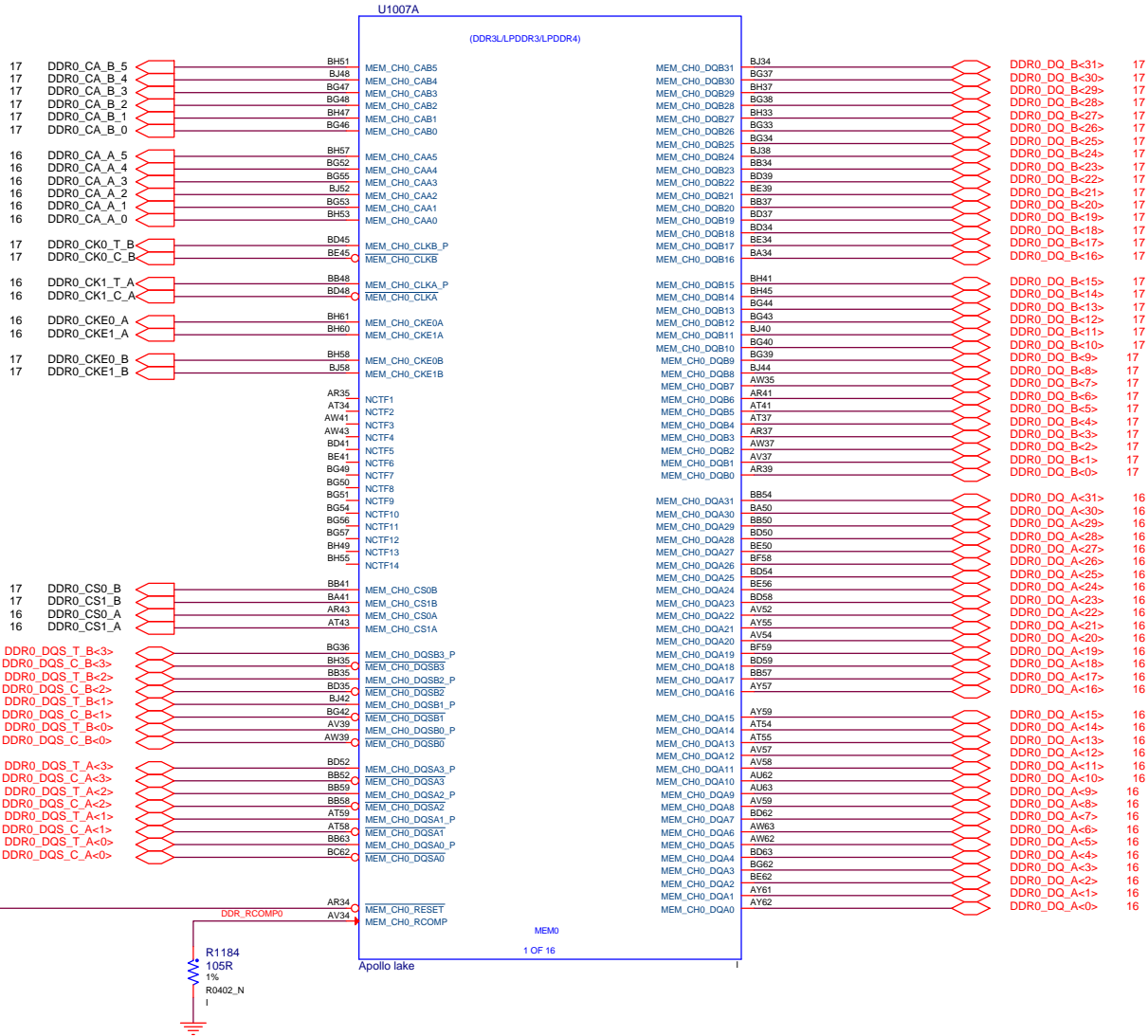
SHEET NO.	SHEET NAME
1	BLOCK DIAGRAM
2	TABLE OF CONTENTS
3	POWER SEQUENCE
4	APL SOC-LPDDR4 CH0
5	APL SOC-LPDDR4 CH1
6	APL SOC-DISPLAY
7	APL SOC-PCIE&USB
8	APL SOC-EMMC,SPI,LPC
9	APL SOC- I2C&HDA
10	APL SOC-PMU,CRYSTAL,RTC
11	APL SOC-MISC
12	APL SOC-POWER
13	APL SOC-GND
14	APL SOC-(DECAP)
15	APL SOC- (BOOT STRAP)
16	MEM_LPDDR4 CH0 1 OF 2
17	MEM_LPDDR4 CH0 2 OF 2
18	MEM_LPDDR4 CH1 1 OF 2
19	MEM_LPDDR4 CH1 2 OF 2
20	NC
21	NC
22	MEM_LPDDR4 DECAPS
23	SYSTEM_FLASH
24	EMMC
25	NC
26	SENSORS
27	NC
28	SSD-M.2_HDD-CONN
29	AUDIO CODEC
30	AUDIO_HEADSET AND SPEAKERS
31	GAUGE&BATTERY CONN
32	DC JACK
33	NC
34	NC
35	WIFI/BT M.2 CONN
36	TYPE C_MUX&CONNECTOR
37	HDMI LEVEL SHIFTER
38	HDMI CONN
39	DISPLAY
40	+V5P0A ,+V3P35X,+V5P0SX

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BPAGE DRAWING

apLff.s
Fri May 27 06:47:10 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title:	TABLE OF CONTENTS	
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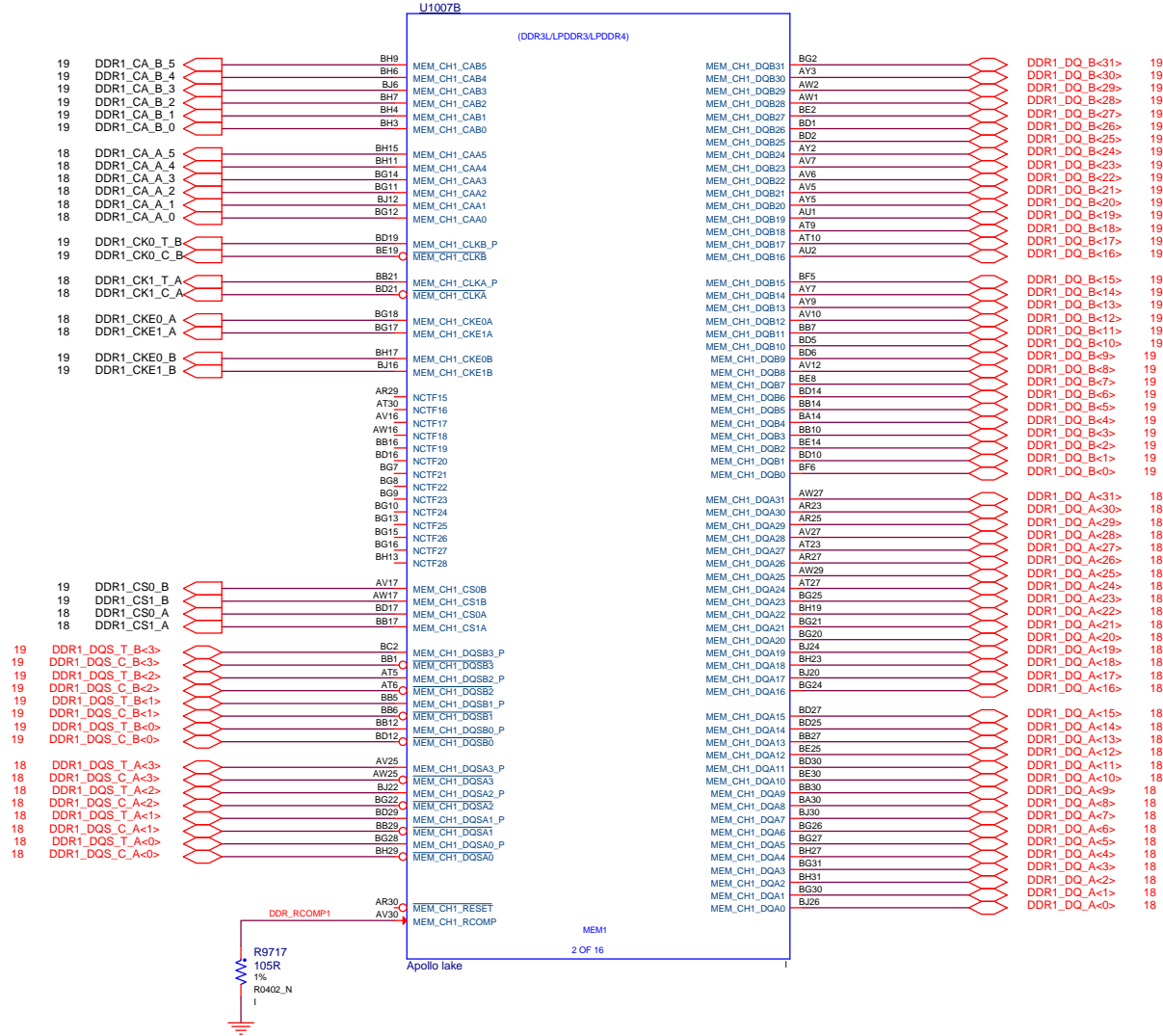
INTERNAL ONLY

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apl_8_UN\$20.205
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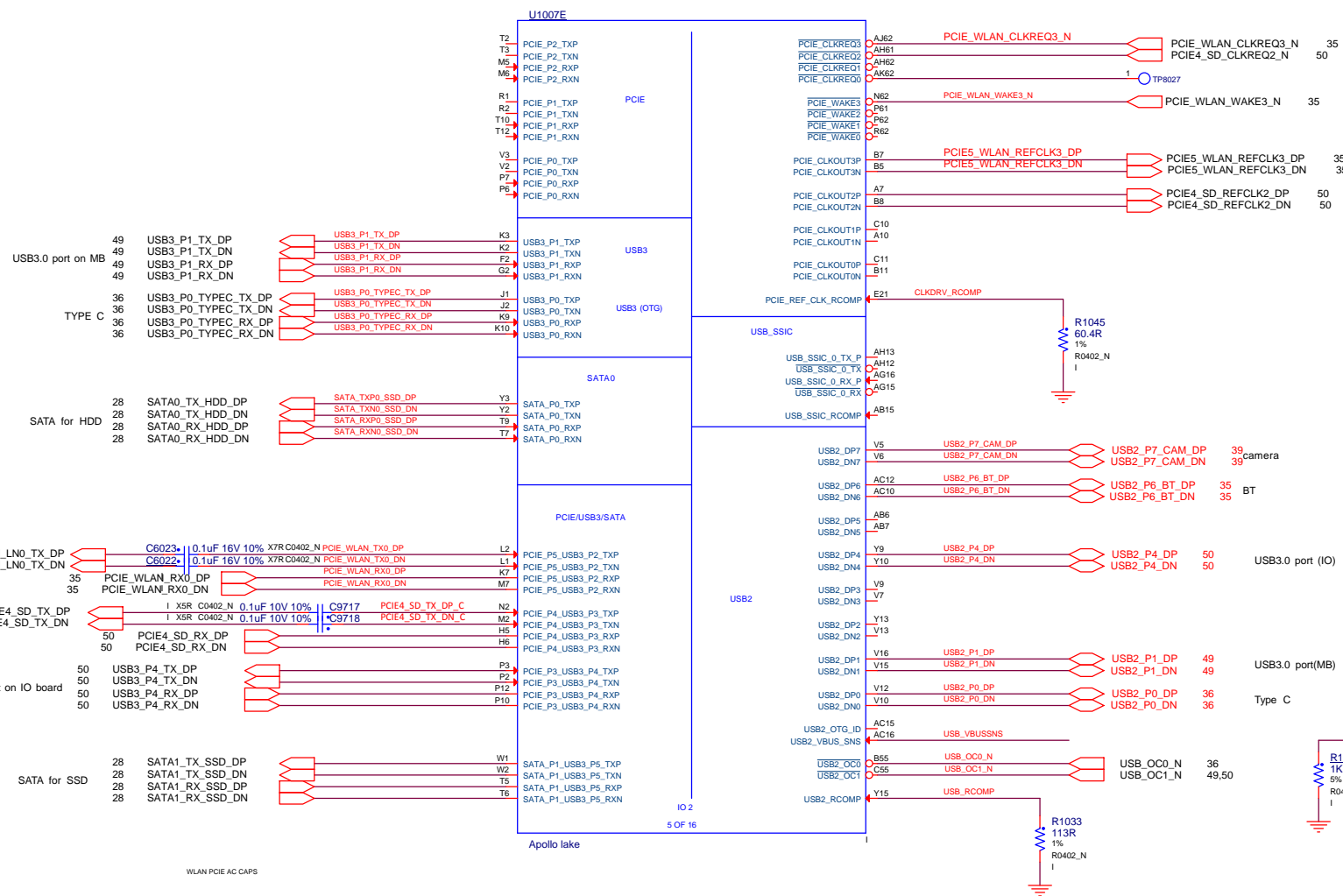
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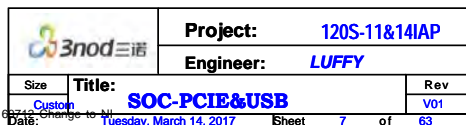
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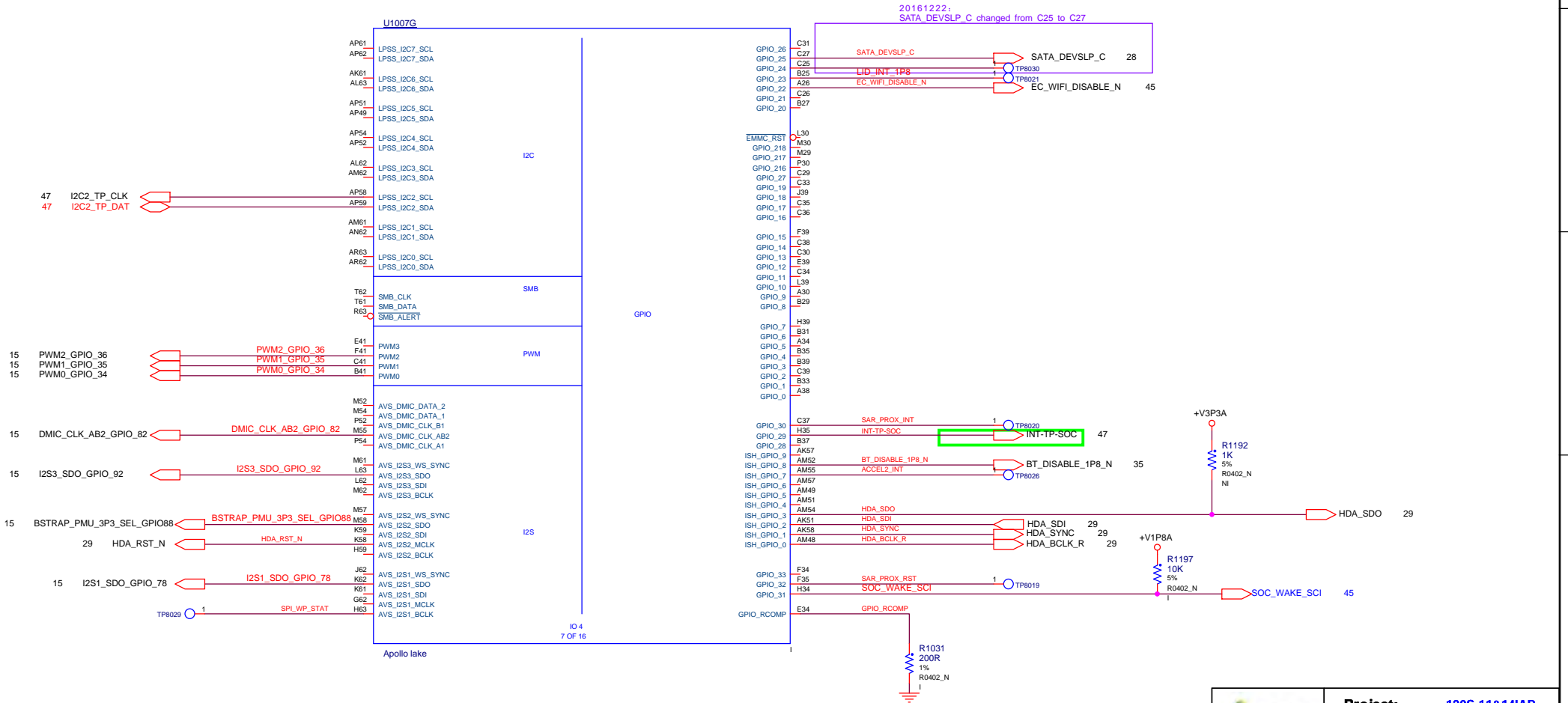
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		Engineer: LUFFY	
Size	Custom	Title: SOC-LDDR4 CH1	Rev V01
Date:	Tuesday, March 14, 2017	Sheet 5	of 63



BPAGE DRAWING


apl_#8A

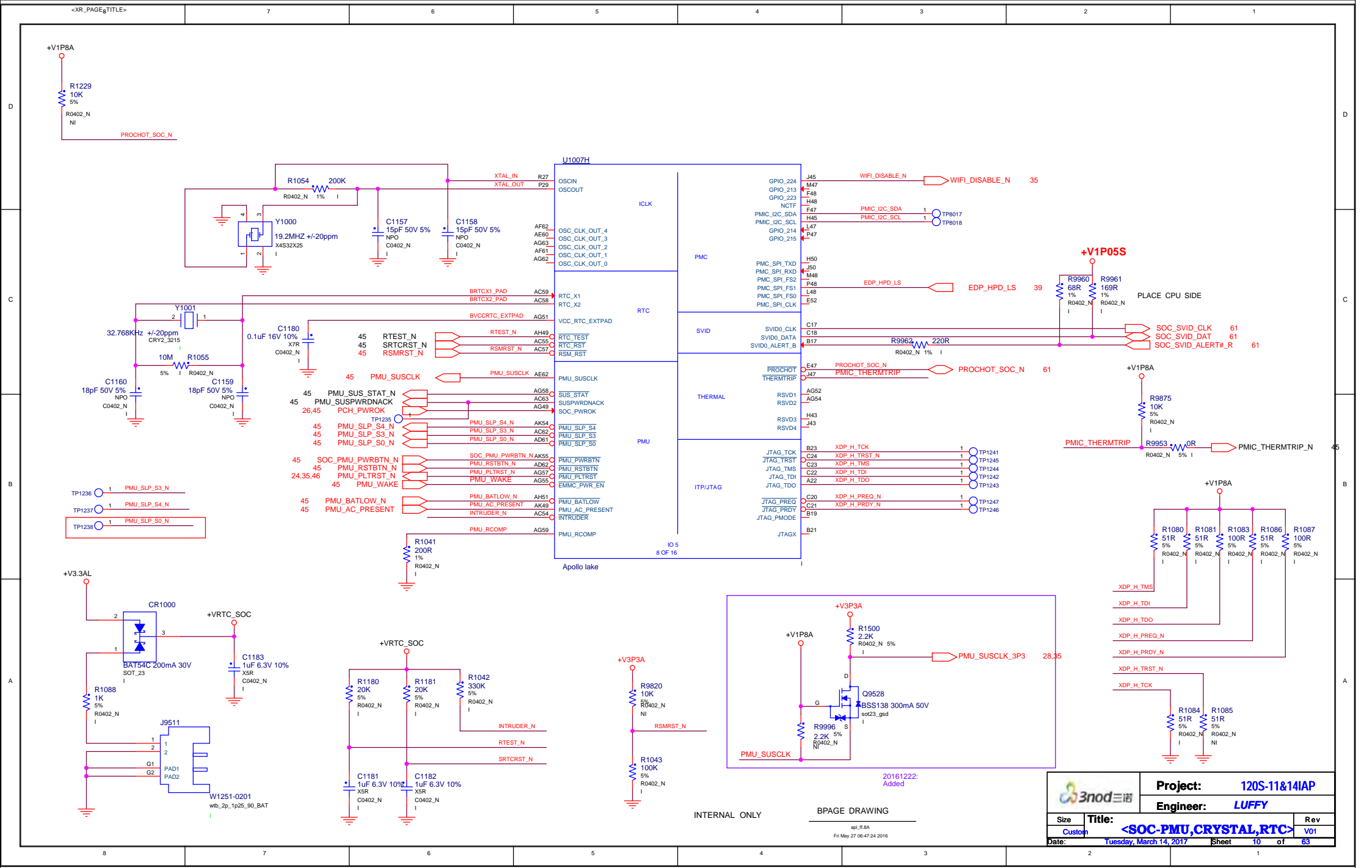




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apl_8_UNB8S.8
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		Engineer: LUFFY	
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		V01	
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D

D

C

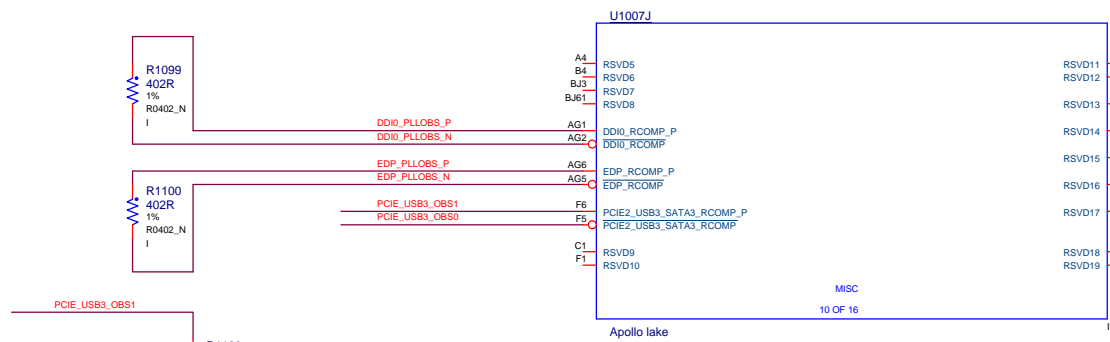
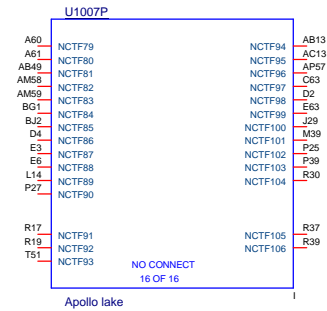
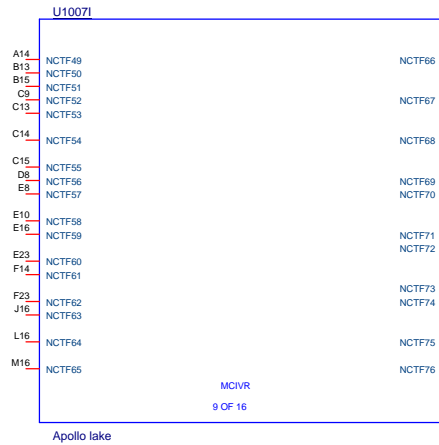
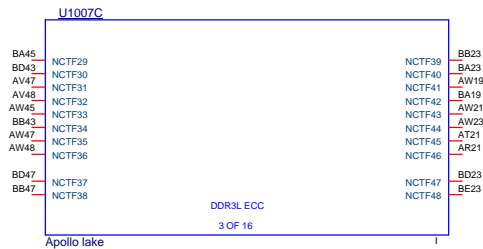
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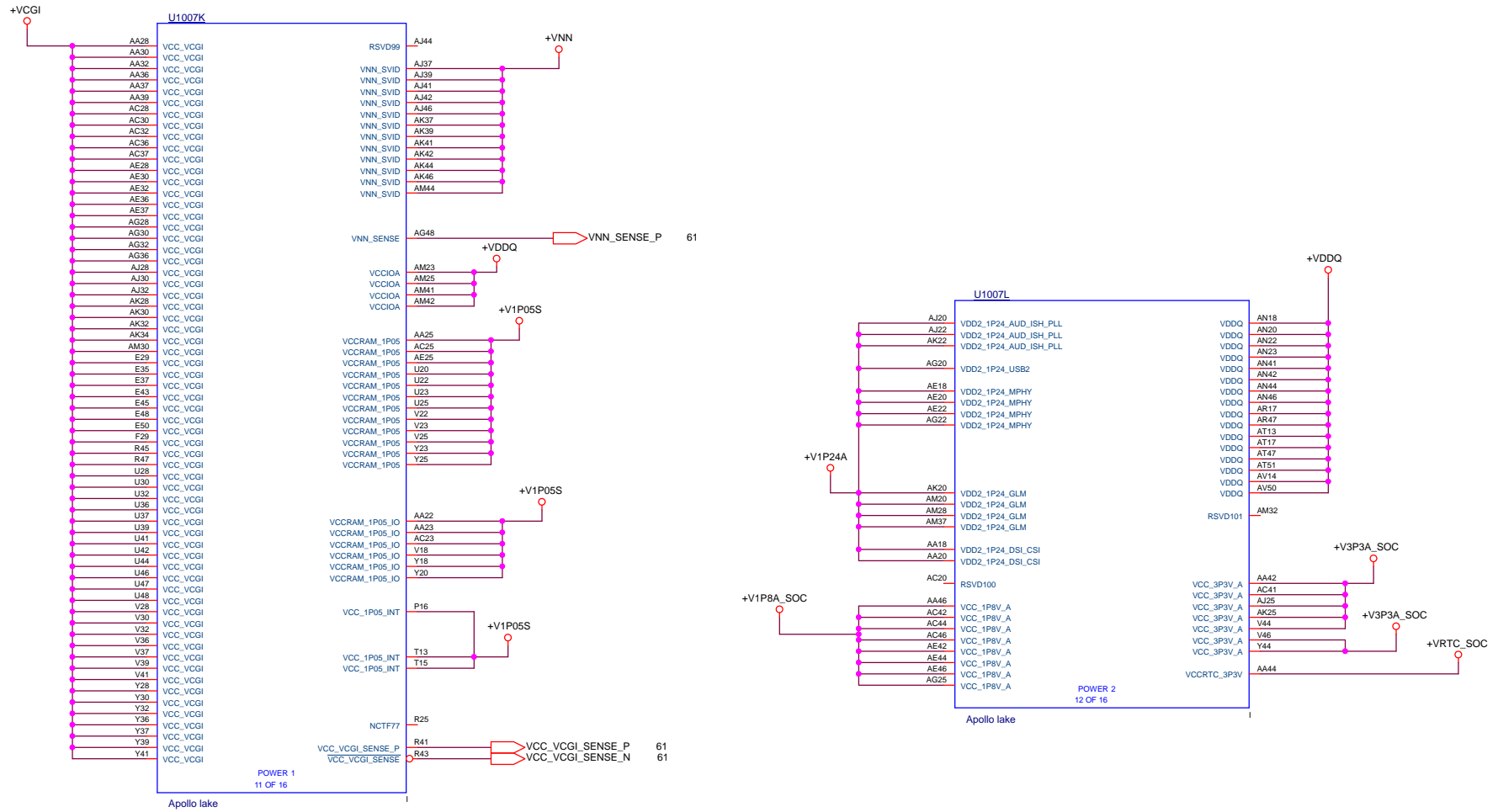
INTERNAL ONLY

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Size Custom		Engineer: LUFFY	
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SOC: POWER



BPAGE DRAWING

apl_E +V1P0.9
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		Engineer:	LUFFY
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SOC: GND

U1007M

AN7 VSS
AN8 VSS
AN9 VSS
AN54 VSS
AN56 VSS
AN57 VSS
AN59 VSS
AN63 VSS
AP9 VSS
AP55 VSS
AR19 VSS
AR32 VSS
AR45 VSS
AT2 VSS
AT3 VSS
AT7 VSS
AT12 VSS
AT16 VSS
AT19 VSS
AT25 VSS
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AT35 VSS
AT39 VSS
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AT61 VSS
AT62 VSS
AU32 VSS
AV2 VSS
AV3 VSS
AV9 VSS
AV19 VSS
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AY6 VSS
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B3 VSS
B62 VSS
B63 VSS
BA1 VSS
BA2 VSS
BA12 VSS
BA16 VSS
BA17 VSS
BA21 VSS
BA25 VSS

VSS 1
13 OF 16

Apollo lake

BA27 VSS
BA29 VSS
BA32 VSS
BA35 VSS
BA37 VSS
BA39 VSS
BA43 VSS
BA47 VSS
BA48 VSS
BA52 VSS
BA62 VSS
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BB3 VSS
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BJ32 VSS
BJ36 VSS
BJ46 VSS

U1007N

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AG23 VSS
AG27 VSS
R29 VSS

VSS 2
14 OF 16

Apollo lake

AG34 VSS
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AN51 VSS

U1007O

BJ8 VSS
BJ50 VSS
BJ54 VSS
BJ56 VSS
BJ60 VSS
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C16 VSS
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VSS 3
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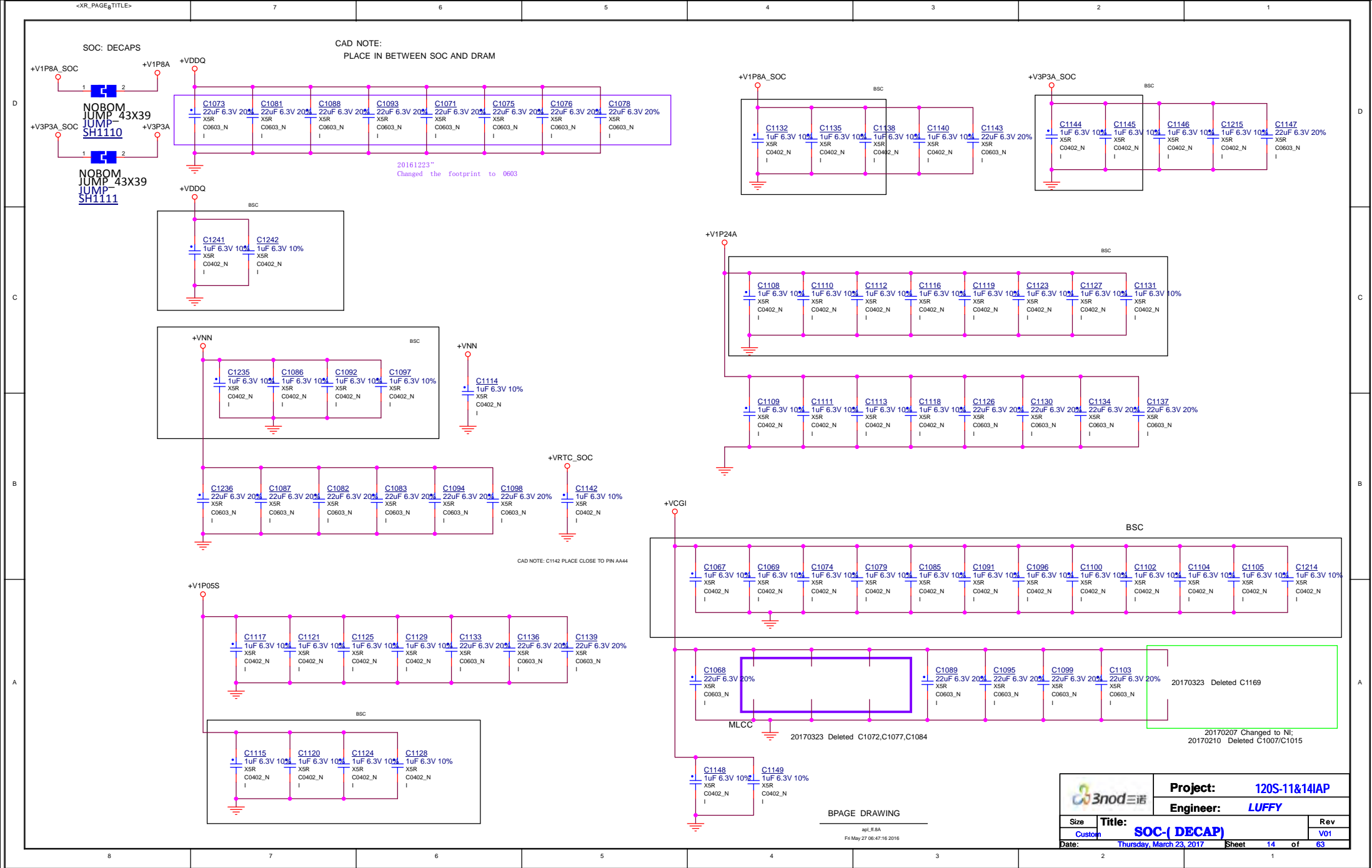
Apollo lake

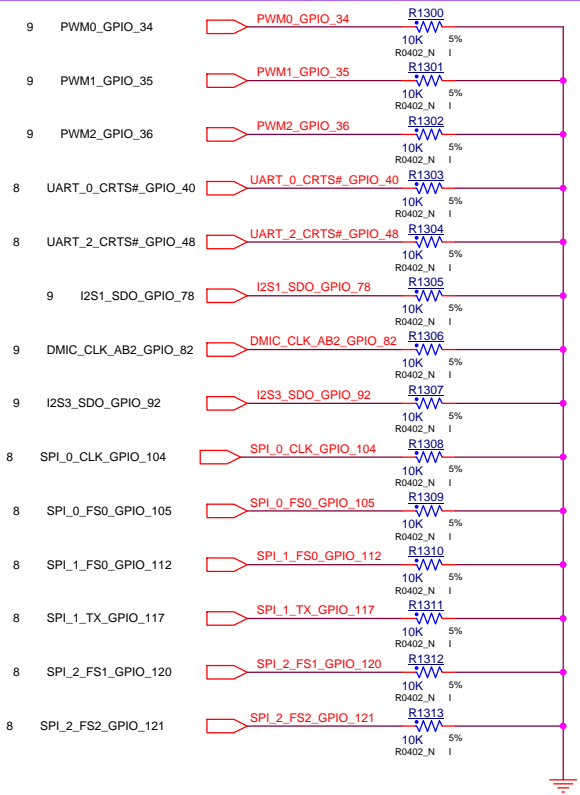
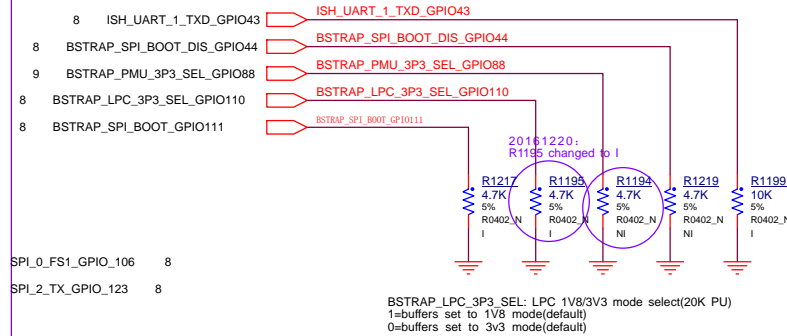
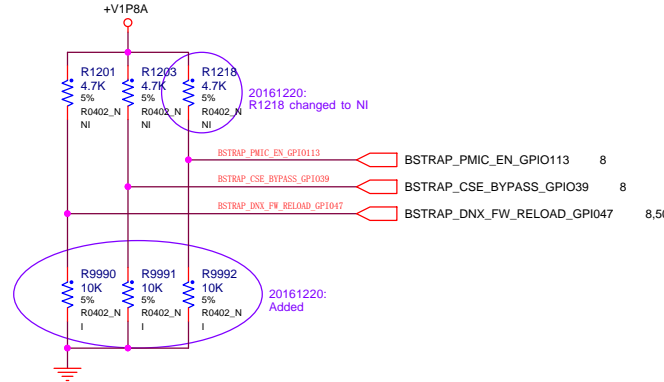
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U59 VSS
U62 VSS
U63 VSS
V20 VSS
V27 VSS
V34 VSS
V42 VSS
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Y6 VSS
Y7 VSS
Y12 VSS
Y16 VSS
Y22 VSS
Y27 VSS
Y34 VSS
Y42 VSS
Y46 VSS
Y48 VSS
Y52 VSS
Y54 VSS
Y55 VSS
Y57 VSS
Y59 VSS

BPAGE DRAWING

apl, R, GND
Fri May 27 06:47:14 2016

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		Engineer: LUFFY	
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20161220:
AddedBSTRAP_LPC_3P3_SEL: LPC 1V8/3V3 mode select(20K PU)
1=buffers set to 1V8 mode(default)
0=buffers set to 3v3 mode(default)

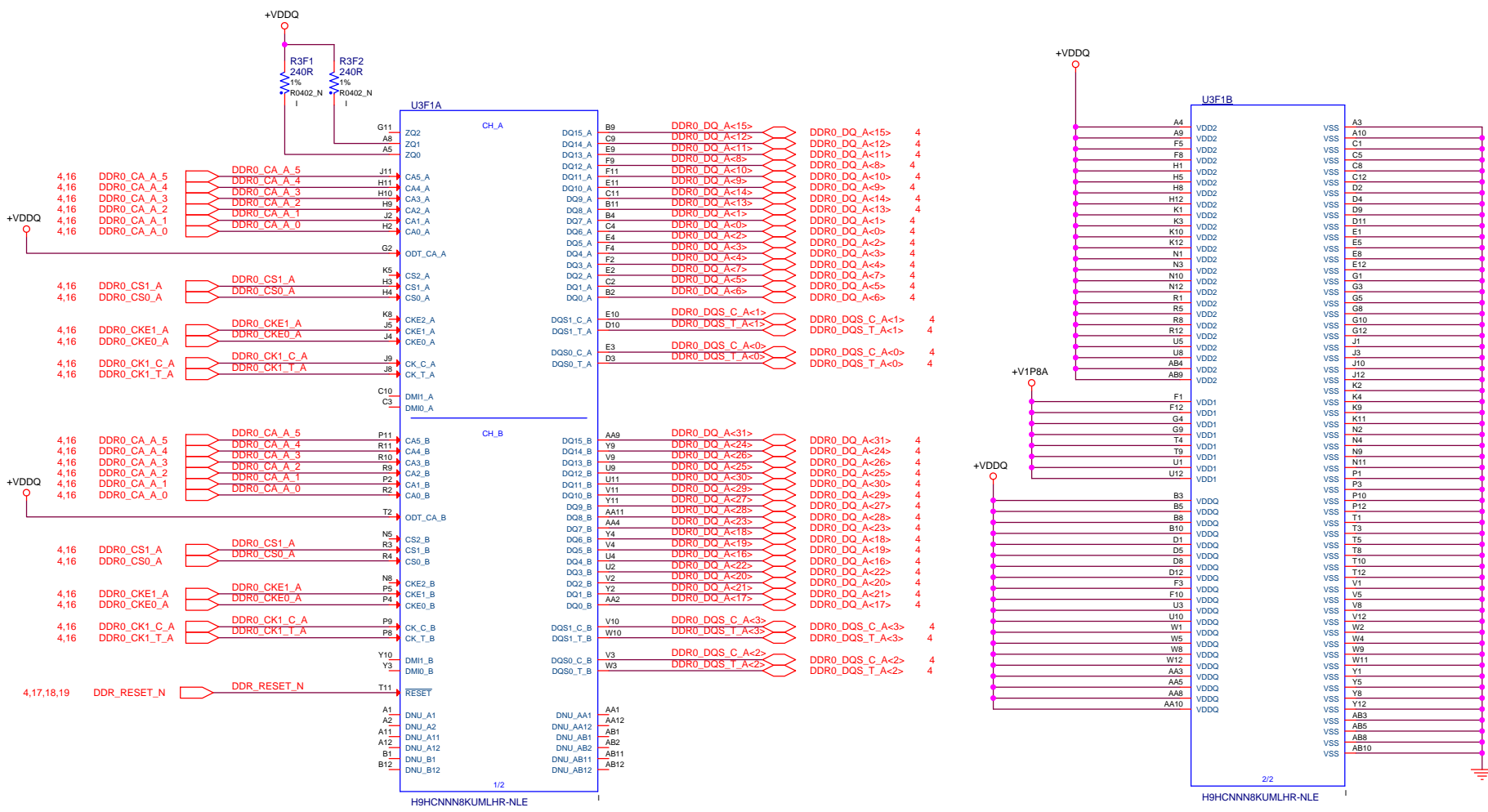
BXT-P GPIO	SOC Ball Name	BSTRAP	Default Internal PU/PD
GPIO34	PWM0	Delayed_vref_switch 0= not delayed(Default) 1=delayed	PD
GPIO35	PWM1	Spare1 0= do not stall boot FSM(Default) 1=stall boot FSM	PD
GPIO36	PWM2	Spare2 0 =VDD2 IS 1.24V(Default) 1=VDD2 IS 1.35V	PD
GPIO39	LPASS_UART0_TXD	Enable CSE ROM bypass 0 = disable bypass (default) 1 = enable bypass	PD
GPIO40	RTC Clock Timer Bypass	RTC Clock Timer Bypass 0 =disable bypass (Default) 1 =enable bypass	PD
GPIO43	LPASS_UART1_TXD	Select eMMC boot source 0 =do not allow (Default) 1=allow	PU
GPIO44	LPASS_UART1_RTS_B	Select SPI boot source 0 =Disable 1=Enable(Default)	PU
GPIO47	LPASS_UART2_TXD	Force DNX FW Load 0 =Disable(Default) 1=Enable	PD
GPIO48	LPASS_UART2_RTS_B	LPC Boot strap 0 =Do not boot from LPC(Default) 1=Enable	PD
GPIO78	AVS_I2S1_SDO	SMBus 1.8V/3.3V mode select 0=buffers set to 3.3V mode 1=buffers set to 1.8V mode (default)	PU
GPIO82	AVS_M_CLK_AB2	WC_PRESENT 0=non-Whiskey Cove(Default) 1=Whiskey Cove is connected	PD
GPIO88	AVS_I2S2_SDO	PMU (Power Management Unit) 1.8V/3.3V mode select 0=buffers set to 3.3V mode 1=buffers set to 1.8V mode (default)	PU
GPIO92	AVS_I2S3_SDO	SMBus No Re-Boot 0=Disable(Default) 1=Enable	PD
GPIO104	GP_SSP_0_CLK	(HVM Tester)XTAL startup 0=Disable(Default) 1=Enable	PD
GPIO105	GP_SSP_0_FS0	(HVM Tester)XTAL startup 0=Disable(Default) 1=Enable	PU
GPIO106	GP_SSP_0_FS1	Halts early boot for debug 0=Enable 1=Disable	PU
GPIO110	GP_SSP_0_TXD	LPC 1.8V/3.3V mode select 0=buffers set to 3.3V mode 1=buffers set to 1.8V mode (default)	PU
GPIO111	GP_SSP_1_CLK	SPI Boot BIOS strap 0=boot from SPI(Debug) 1=Do not boot from SPI (default)	PU
GPIO112	GP_SSP_1_FS0	Enable metal password auth 0=Disable 1=Enable	PD
GPIO113	GP_SSP_1_FS1	SVID disable 0=Enable SVID(Default) 1=Disable SVID	PU
GPIO117	GP_SSP_1_TXD	Stall B0ot FSM for debug 0=Do not stall boot FSM(Default) 1=stall boot FSM	PD
GPIO118	GP_SSP_2_CLK	Flash Descriptpr Override Pin-Strap status 0=Disable(Default) 1=Enable	PD
GPIO120	GP_SSP_2_FS1	Top swap pverride 0=Disable(Default) 1=Enable	PD
GPIO121	GP_SSP_2_FS2	Pilled LOW when RSM_RST_N deasserts	PD
GPIO123	GP_SSP_2_TXD	Pulled HIGH when RSM_RST_N de-asserts	PU

BPAGE DRAWING

apl_H.GND
Fri May 27 06:47:16 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title:	Rev	
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CHANNEL 0 - MEMORY1/2

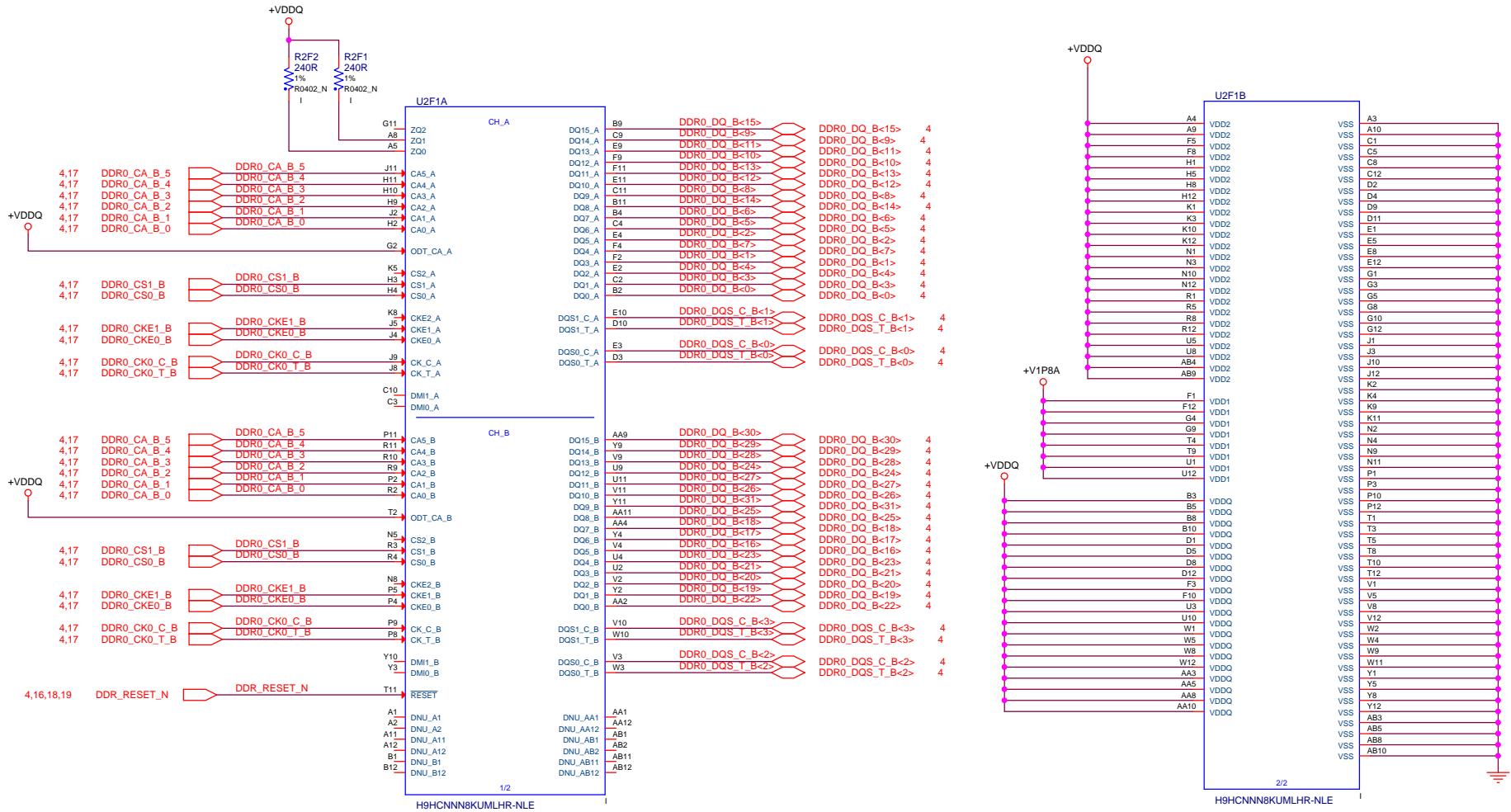


BPAGE DRAWING

apl.HI.GND
Fri May 27 06:47:16 2016


		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title:	MEM LPDDR4 CH0-1 of 2	Rev
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CHANNEL 0 - MEMORY2/2

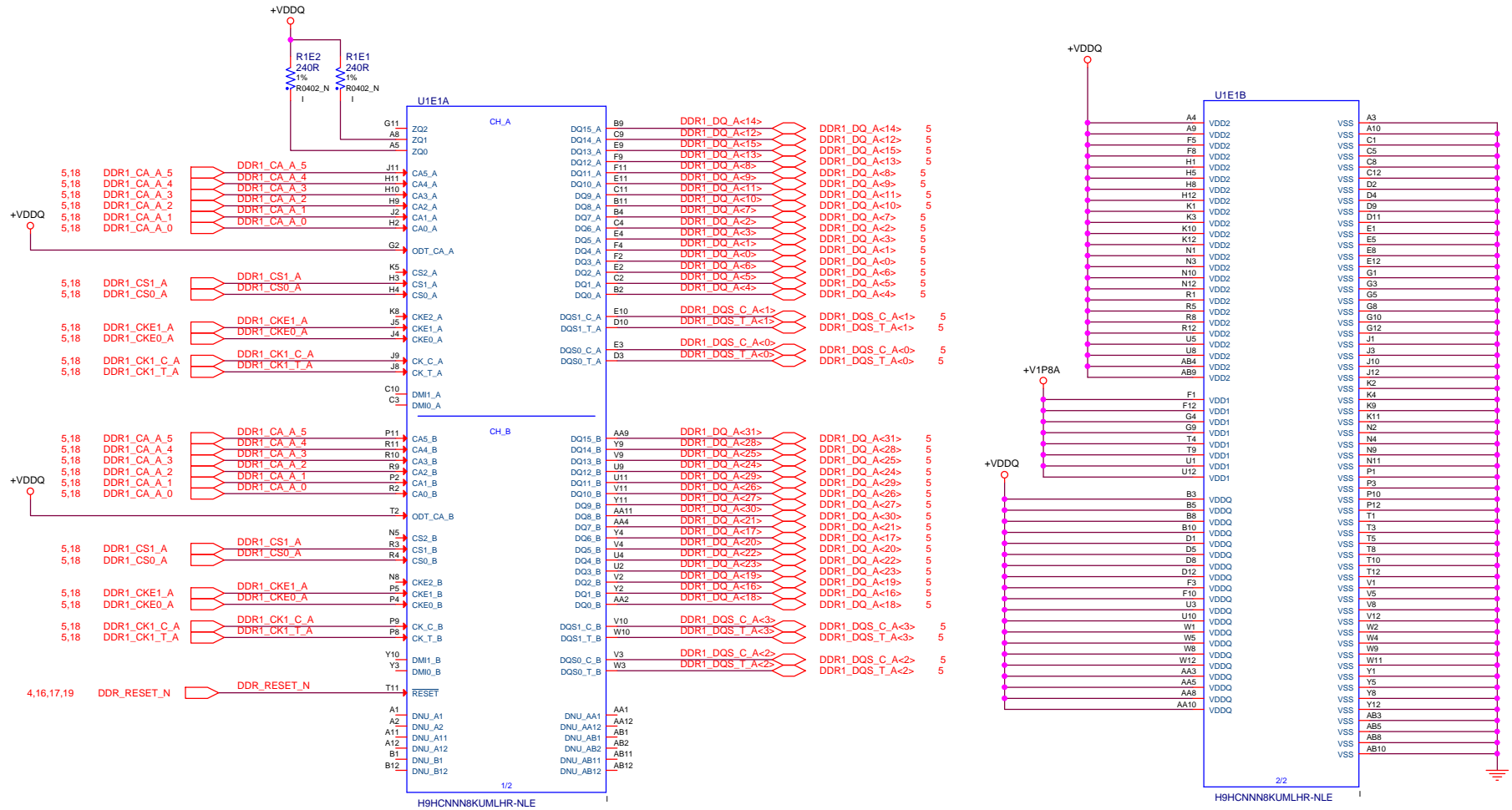


BPAGE DRAWING

apl,fl.GND
Fri May 27 06:47:16 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title:	MEM LPDDR4 CH0-2 of 2	
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CHANNEL 1 - MEMORY1/2

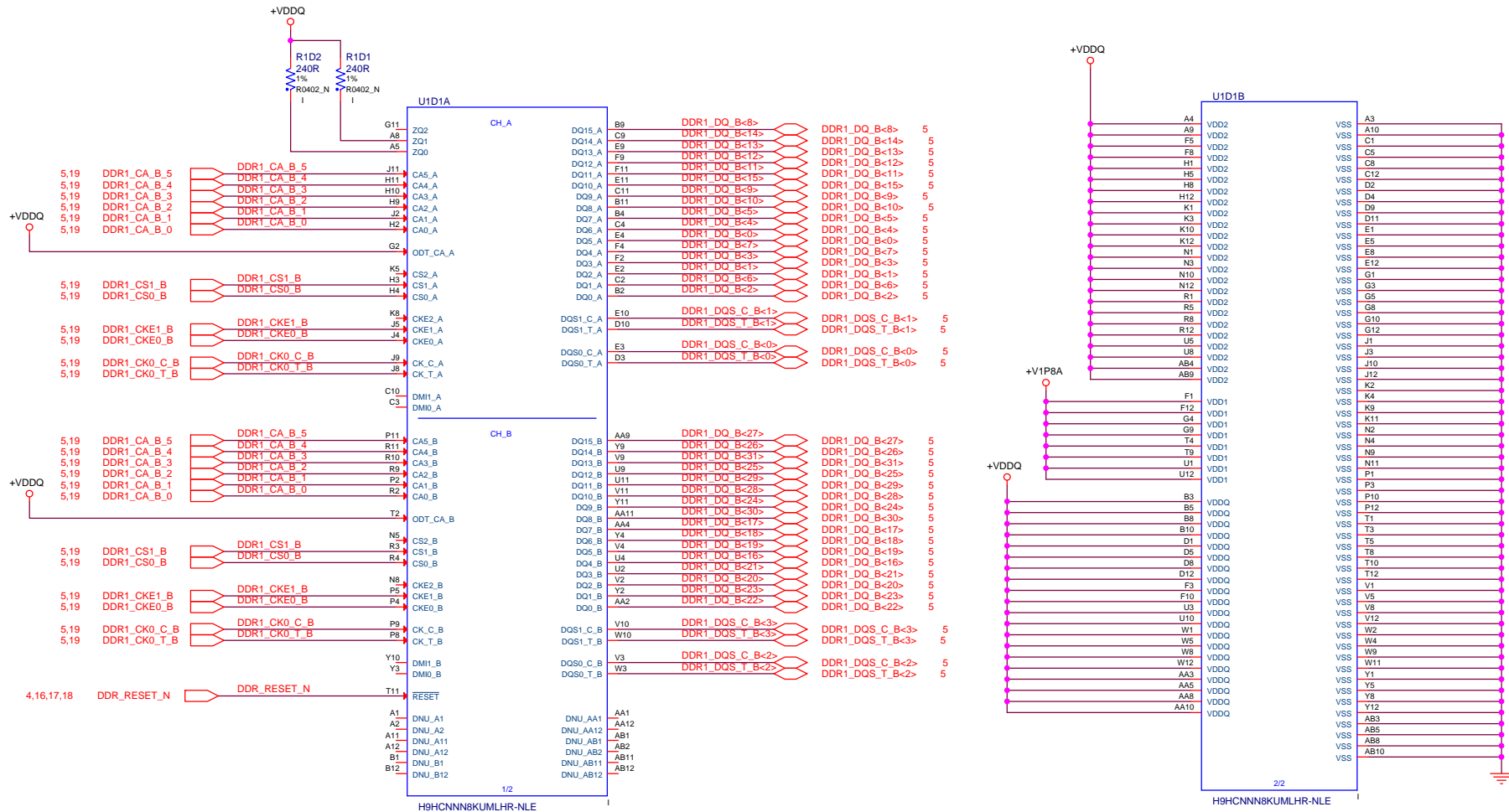


BPAGE DRAWING

apl,JI.GND
Fri May 27 08:47:18 2016

		Project: 120S-11&14IAP	
Size: Custom		Engineer: LUFFY	
Title: MEM_LPDDR4 CH1-1 of 2		Rev: V01	
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CHANNEL 1 - MEMORY2/2



BPAGE DRAWING

ngl, J.GMD
Fri May 27 06:47:18 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title: MEM_LPDDR4 CH1-2of 2	Rev	V01
Customer	Date: Tuesday, March 14, 2017	Sheet	19 of 63

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A									A
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Project: 120S-11&14IAP

Engineer: LUFFY

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Title

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V01

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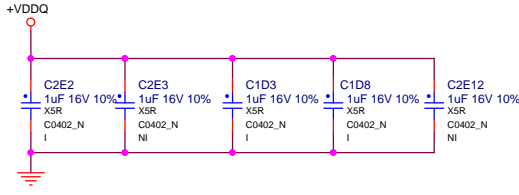
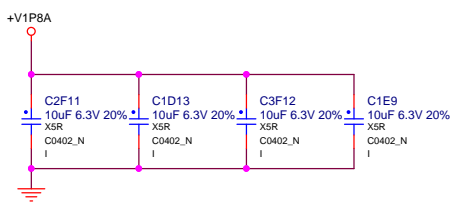
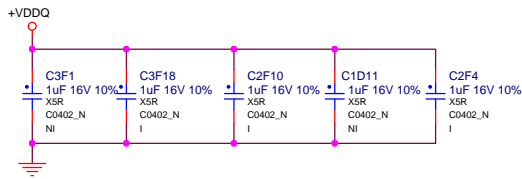
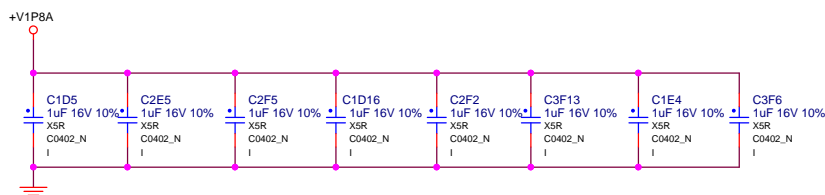
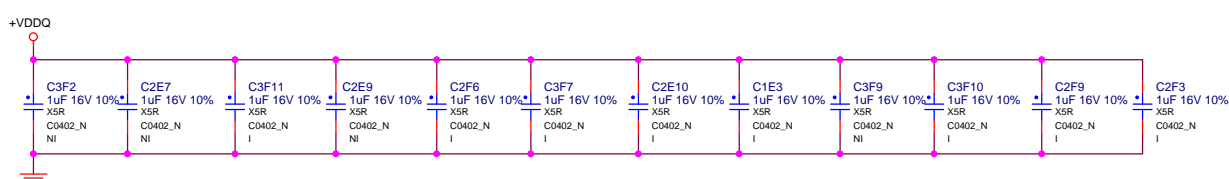
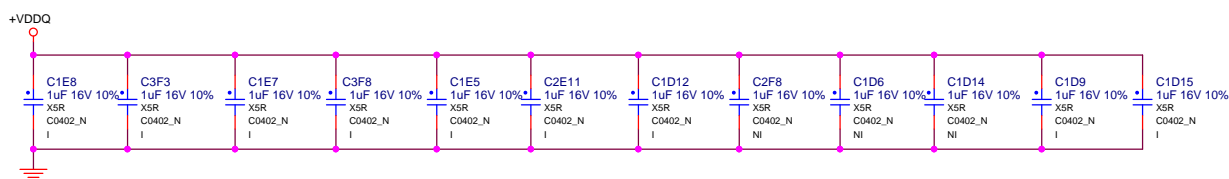
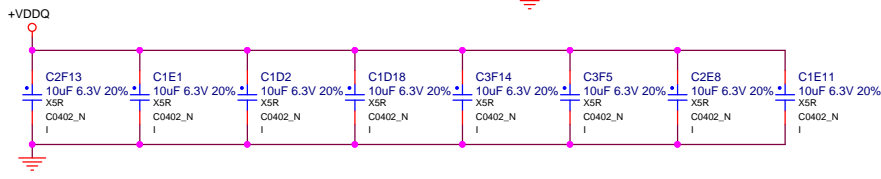
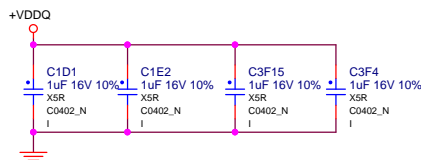
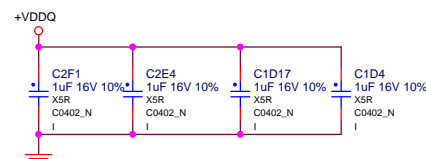
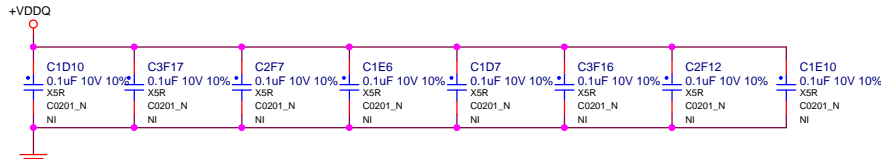
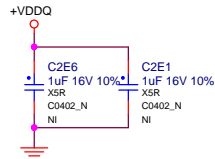
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Fri May 27 06:47:18 2016

BPAGE DRAWING


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Fri May 27 06:47:18 2016

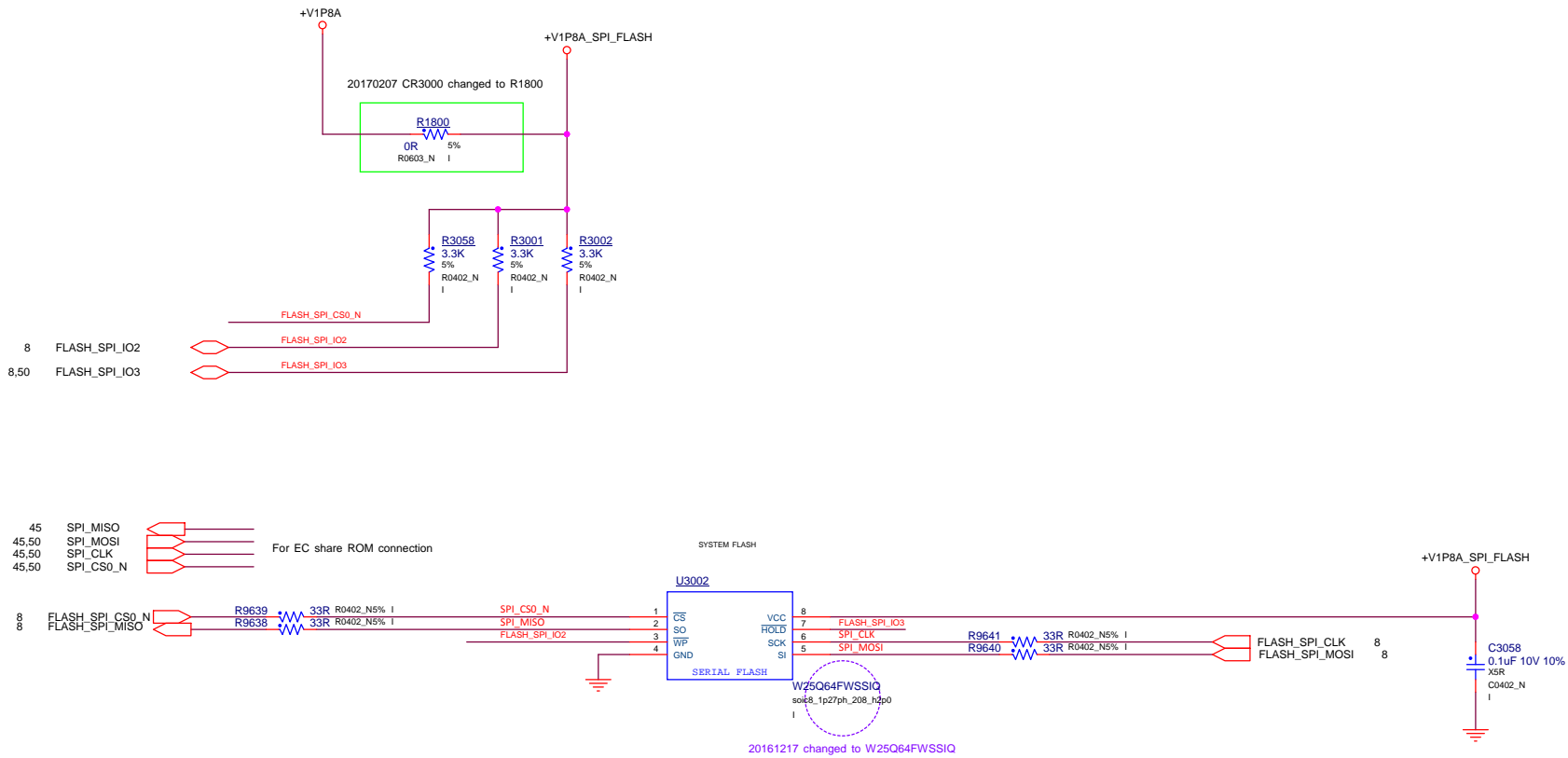
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Size	Title: NC		Rev
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BPAGE DRAWING

apl,fl,BA
Fri May 27 06:47:18 2016


		Project: 120S-11&14IAP	
		Engineer: LUFFY	
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Custom		Rev	
Date:	Tuesday, March 14, 2017	Sheet	22 of 63
		V01	

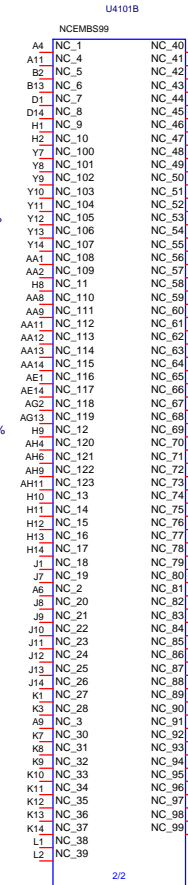
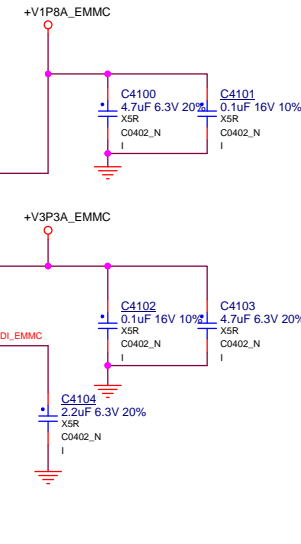
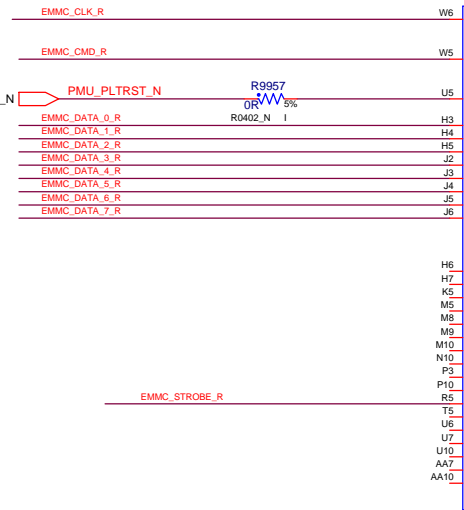
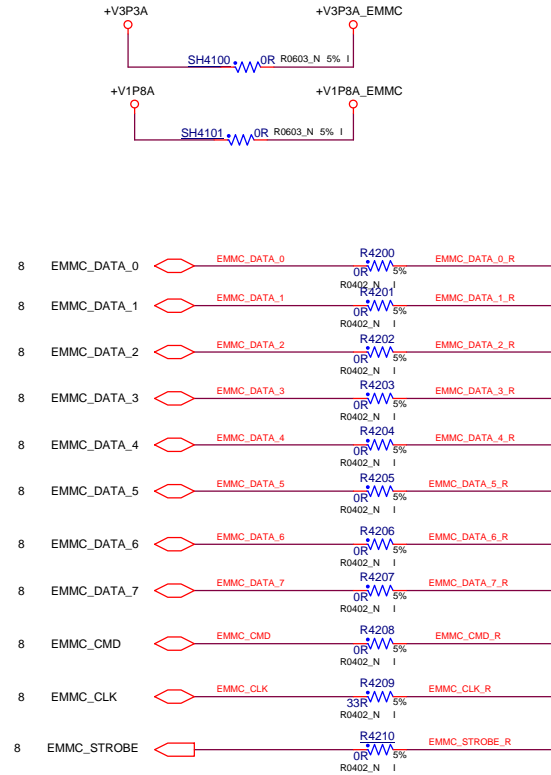


INTERNAL ONLY

BPAGE DRAWING

apl.if.GND
Fri May 27 06:47:20 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Custom	Title: <SYSTEM FLASH>	Rev
Date: Tuesday, March 14, 2017		Sheet 23 of 63	V01



INTERNAL ONLY

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apl.R.GND
Fri May 27 08:47:20 2016


		Project:	120S-11&14IAP
		Engineer:	LUFFY
Size	Title:	Rev	
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Date:	Tuesday, March 14, 2017	Sheet	24 of 63

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INTERNAL ONLY

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apl, R.5
Fri May 27 06:47:20 2016

		Project: 120S-11&14IAP	
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Size	Title:	Rev	
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Date: Tuesday, March 14, 2017		Sheet	25 of 63

INTERNAL ONLY

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apl,fl.s
Fri May 27 06:47:20 2016

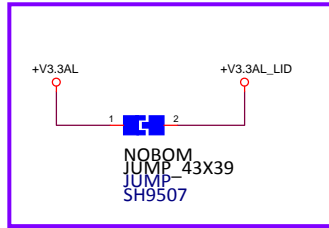
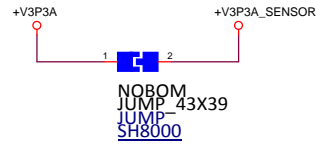


Project: 120S-11&14IAP

Engineer: LUFFY

Size	Title:	Rev
Custom	<NC>	V01
Date: Tuesday, March 14, 2017		Sheet 25 of 63

SENSORS



20170316 Added

CPU THERMAL SENSOR

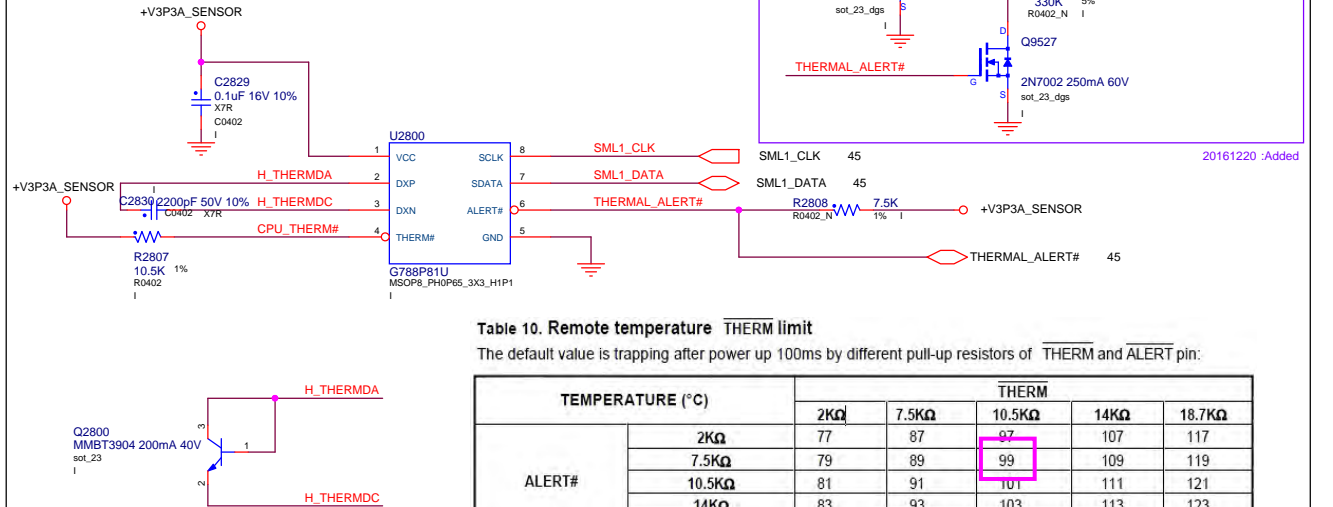
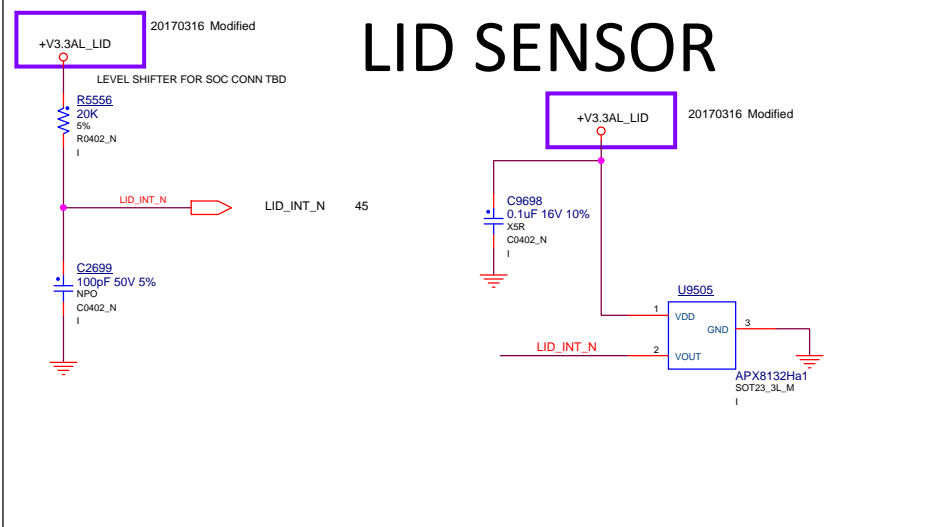


Table 10. Remote temperature THERM limit

The default value is trapping after power up 100ms by different pull-up resistors of THERM and ALERT pin:

TEMPERATURE (°C)		THERM				
		2KΩ	7.5KΩ	10.5KΩ	14KΩ	18.7KΩ
ALERT#	2KΩ	77	87	97	107	117
	7.5KΩ	79	89	99	109	119
	10.5KΩ	81	91	101	111	121
	14KΩ	83	93	103	113	123
	18.7KΩ	85	95	105	115	125

LID SENSOR



INTERNAL ONLY

BPAGE DRAWING

apl_H.GND
Fri May 27 06:47:20 2016


		Project: 120S-11&14IAP	
Size: Custom		Engineer: LUFFY	
Title: <SENSORS>		Rev: V01	
Date: Thursday, March 16, 2017		Sheet 26 of 63	

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INTERNAL ONLY

BPAGE DRAWING


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Size	Title:	Rev	
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Date:	Tuesday, March 14, 2017	Sheet	27 of 63

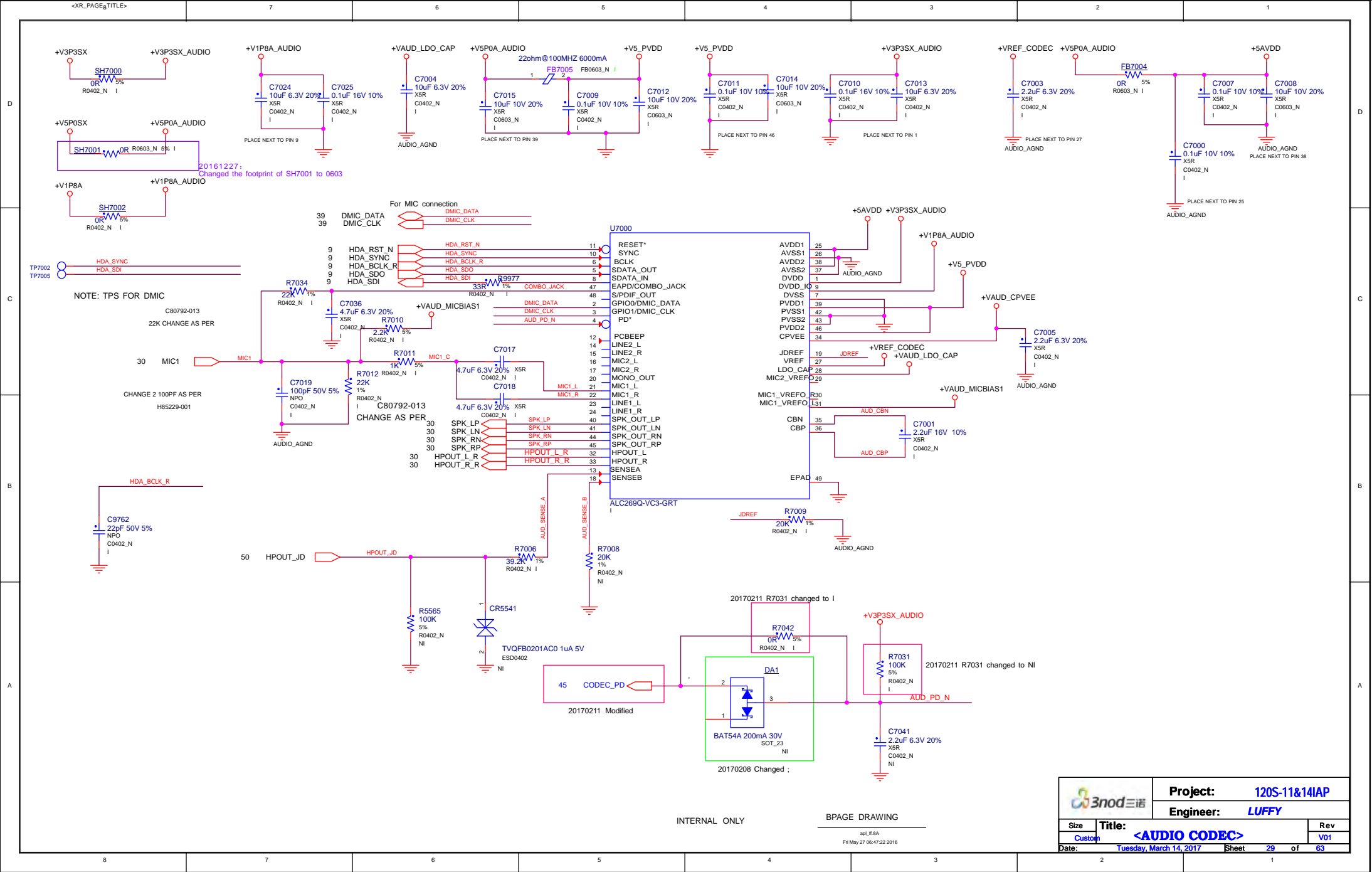
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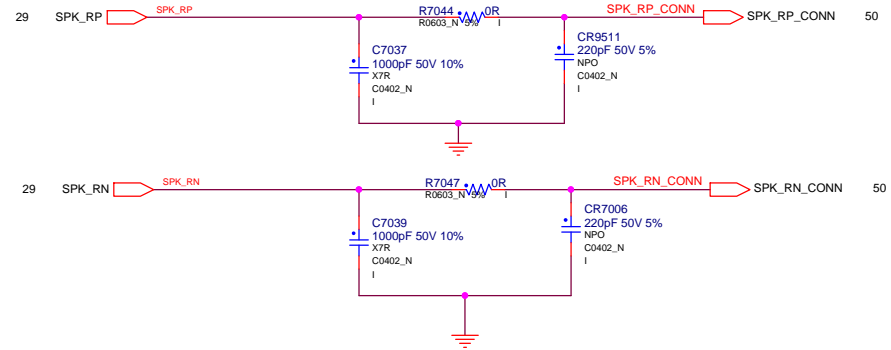
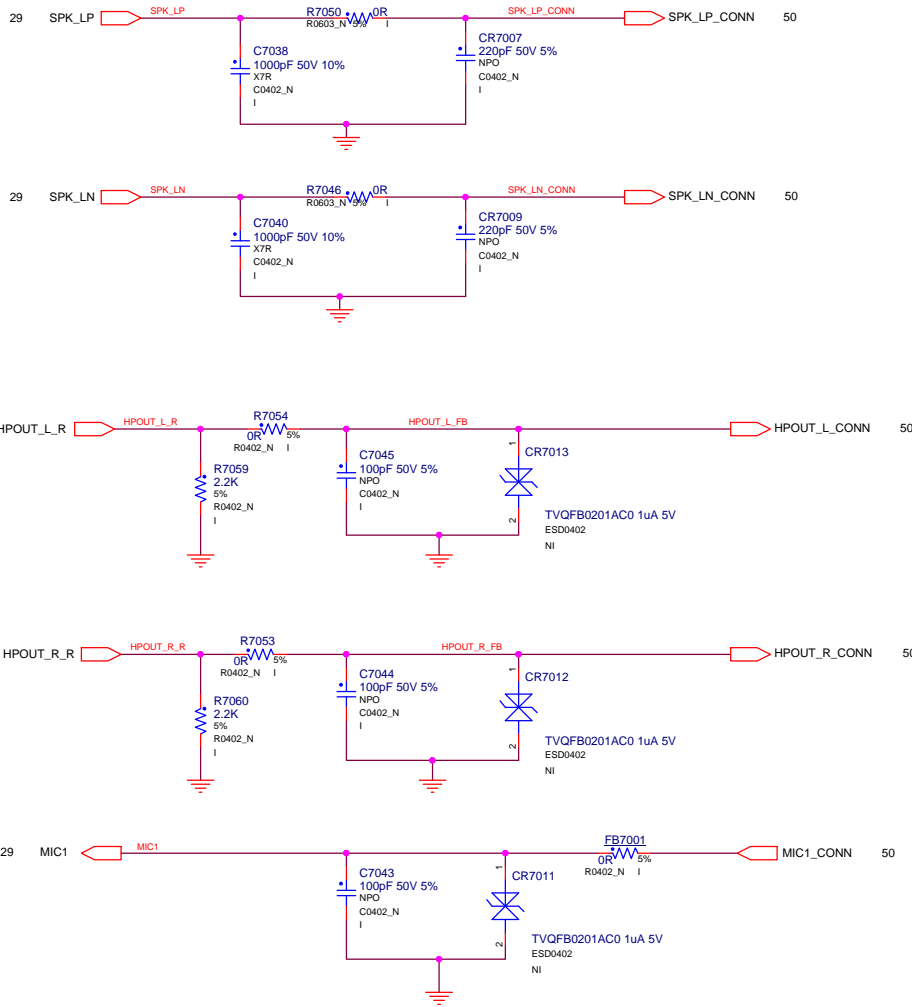
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Date:	Tuesday, March 14, 2017	Sheet 27 of 63	






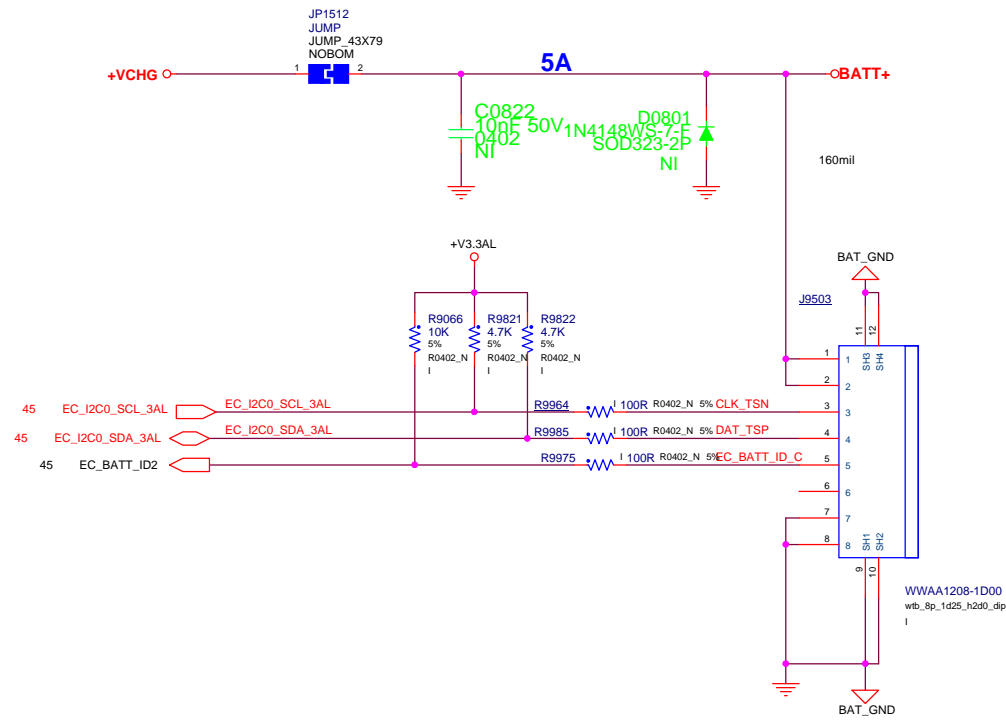


INTERNAL ONLY

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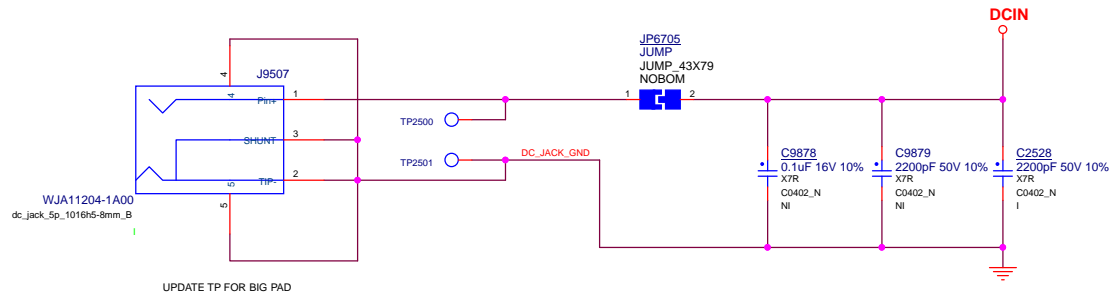
apl, B.A.
Fri May 27 06:47:24 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title: <AUDIO HEADSET AND SPEAKERS>		
Custom			
Date:	Tuesday, March 14, 2017	Sheet	30 of 63



20170205 Deleted reserved design for dummy battery


		Project: 120S-11&14IAP	
		Engineer: GGS	
Size	Title:	Rev	
Custom	<GAUGE&BATTERY CONN>	V01	
Date:	Tuesday, March 14, 2017	Sheet	31 of 63



INTERNAL ONLY

BPAGE DRAWING

apl_11.ADP_P.48
Fri May 27 08:47:24 2016


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		Engineer: GGS	
Size	Title: <DC JACK>	Rev	
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Date:	Tuesday, March 14, 2017	Sheet	32 of 63

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INTERNAL ONLY

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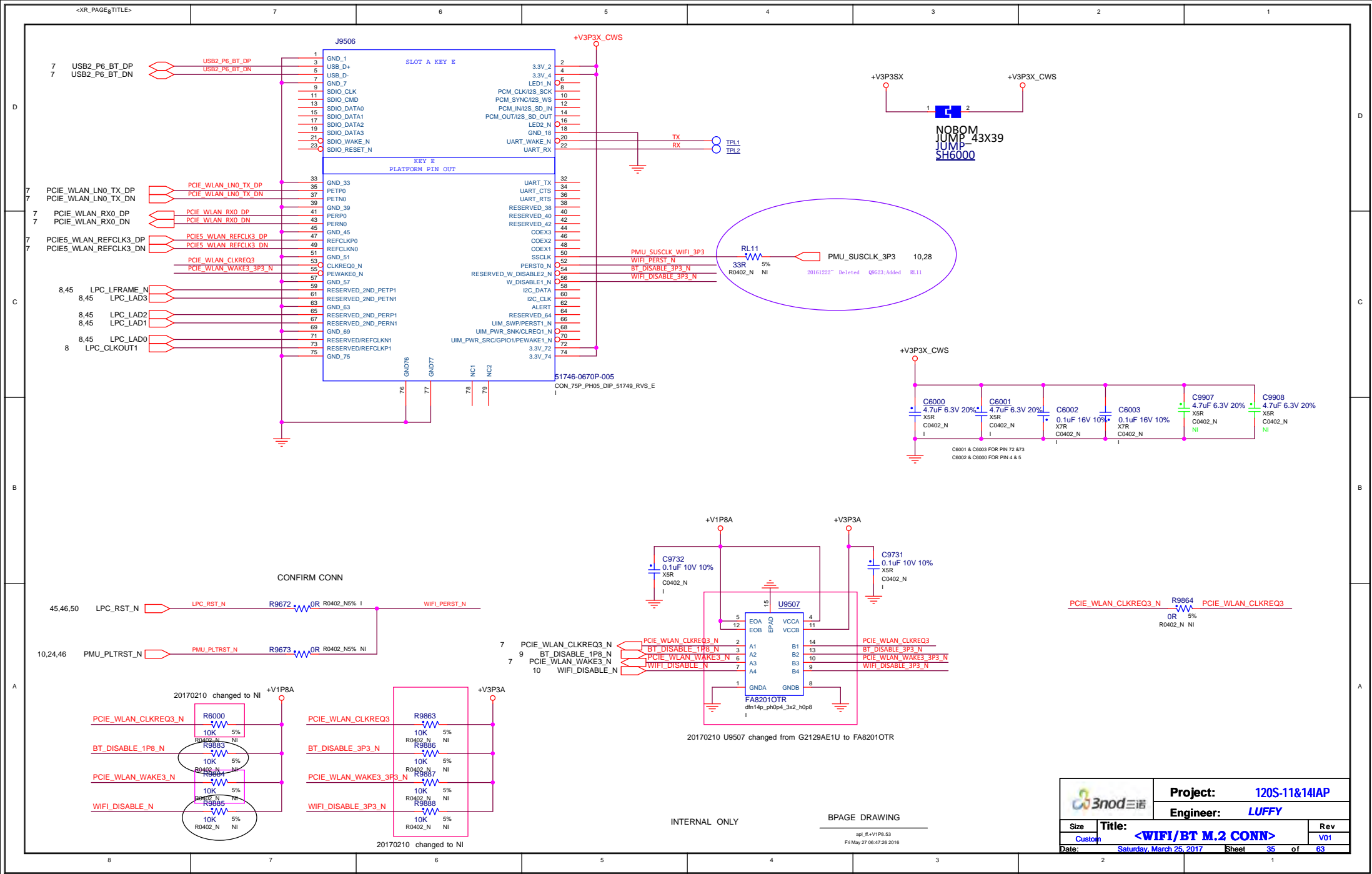
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Size	Title: <NC>		Rev
Custom			V01
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INTERNAL ONLY

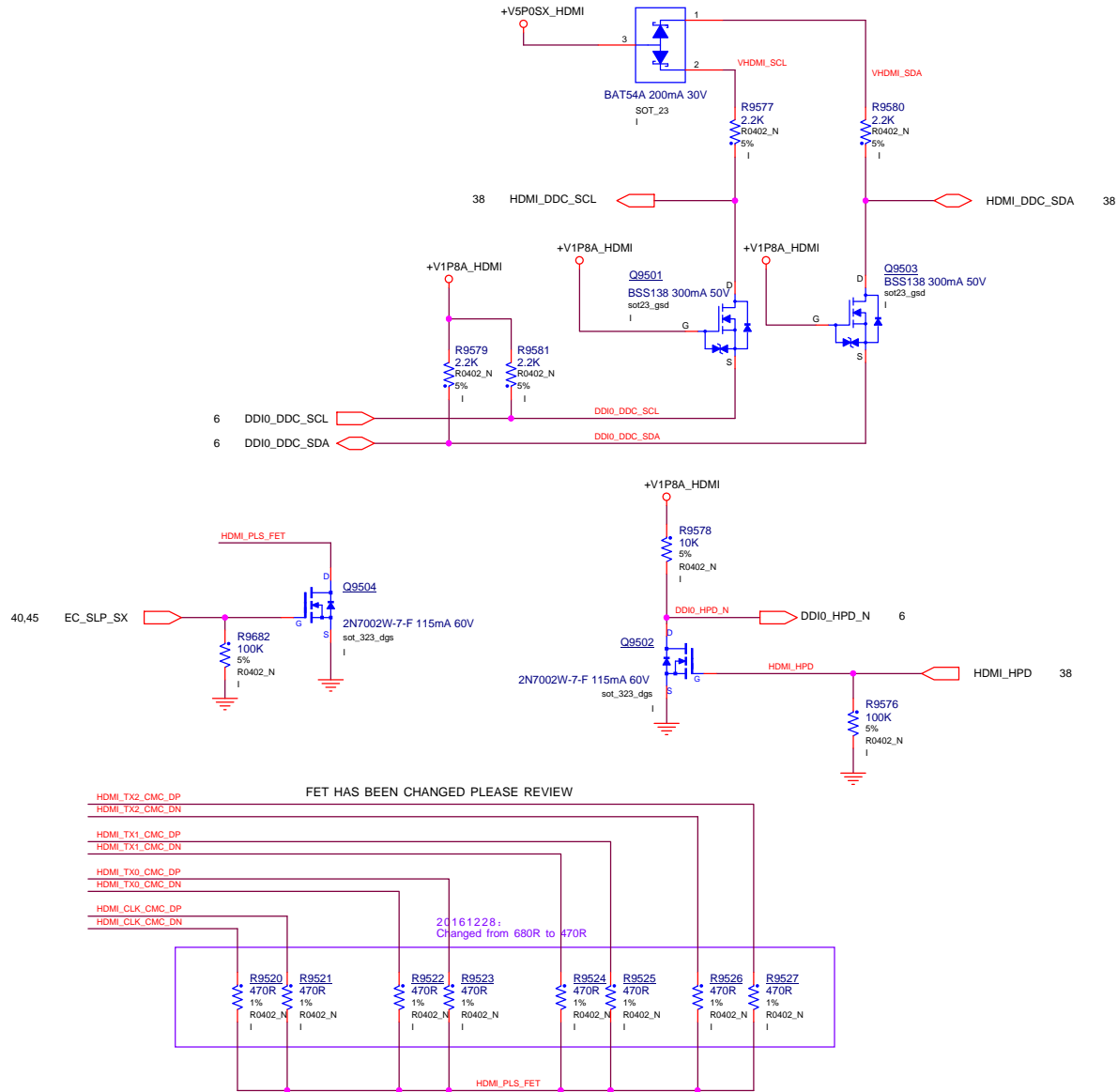
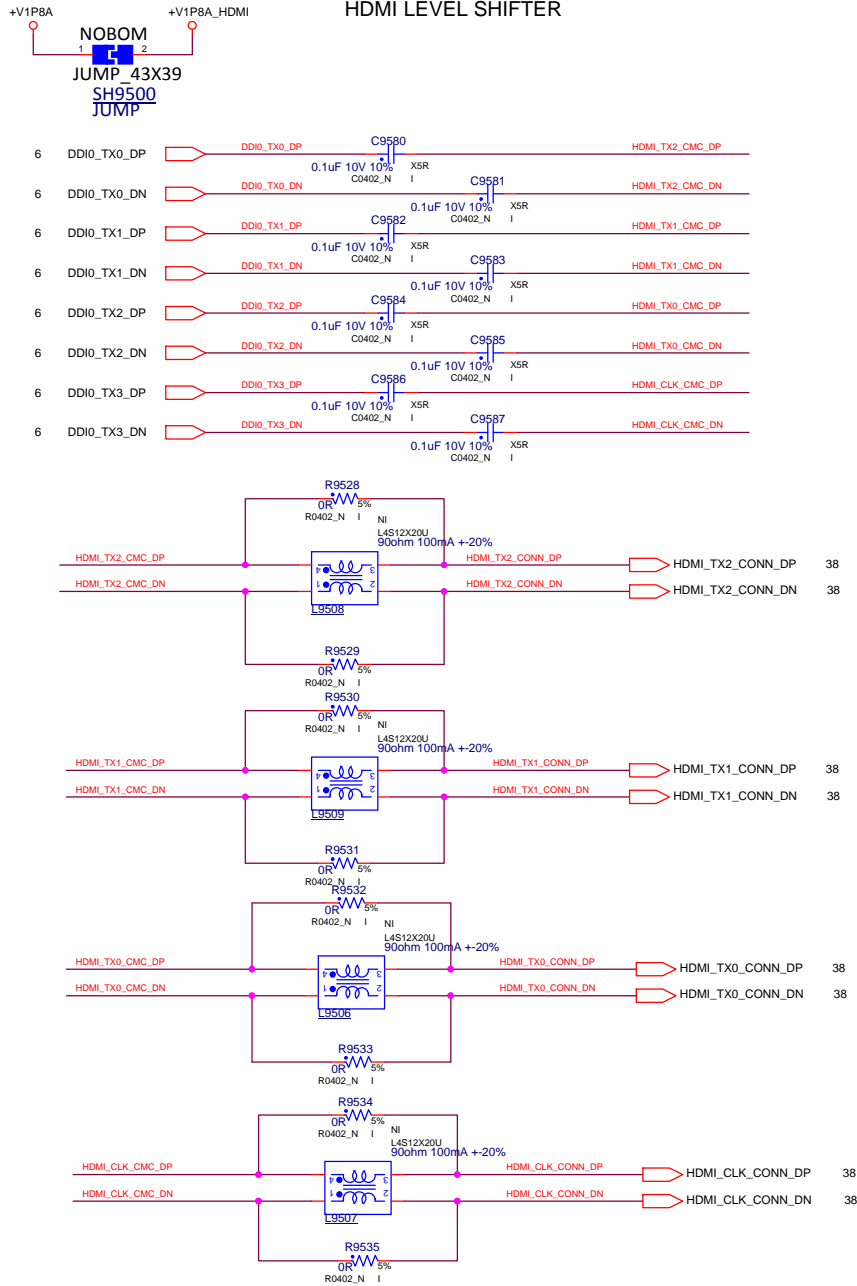
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apl_IF.8A
Fri May 27 06:47:24 2016

		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title:	Rev	
Custom	<NC>	V01	
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HDMI LEVEL SHIFTER

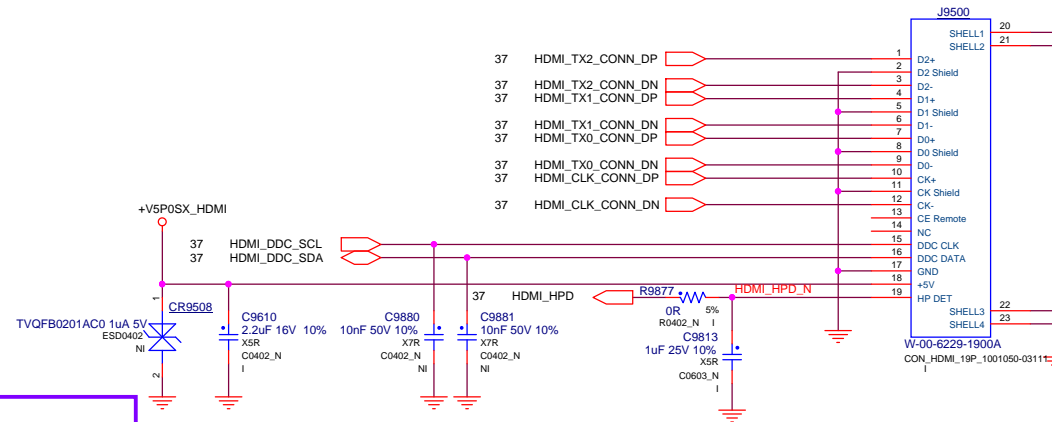
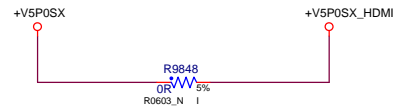


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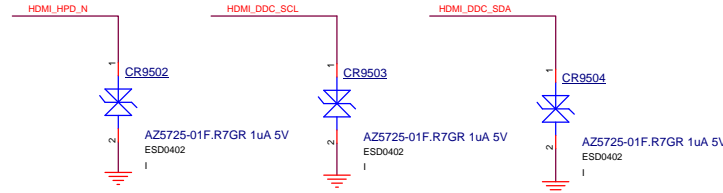
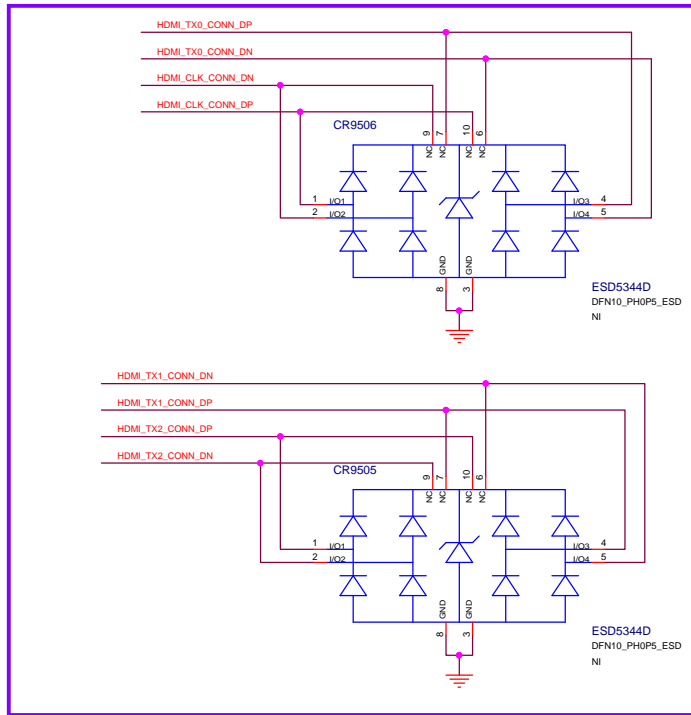
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		Engineer:	LUFFY
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Custom			
Date:	Tuesday, March 14, 2017	Sheet	37 of 63
		Rev	V01

HDMI CONNECTOR



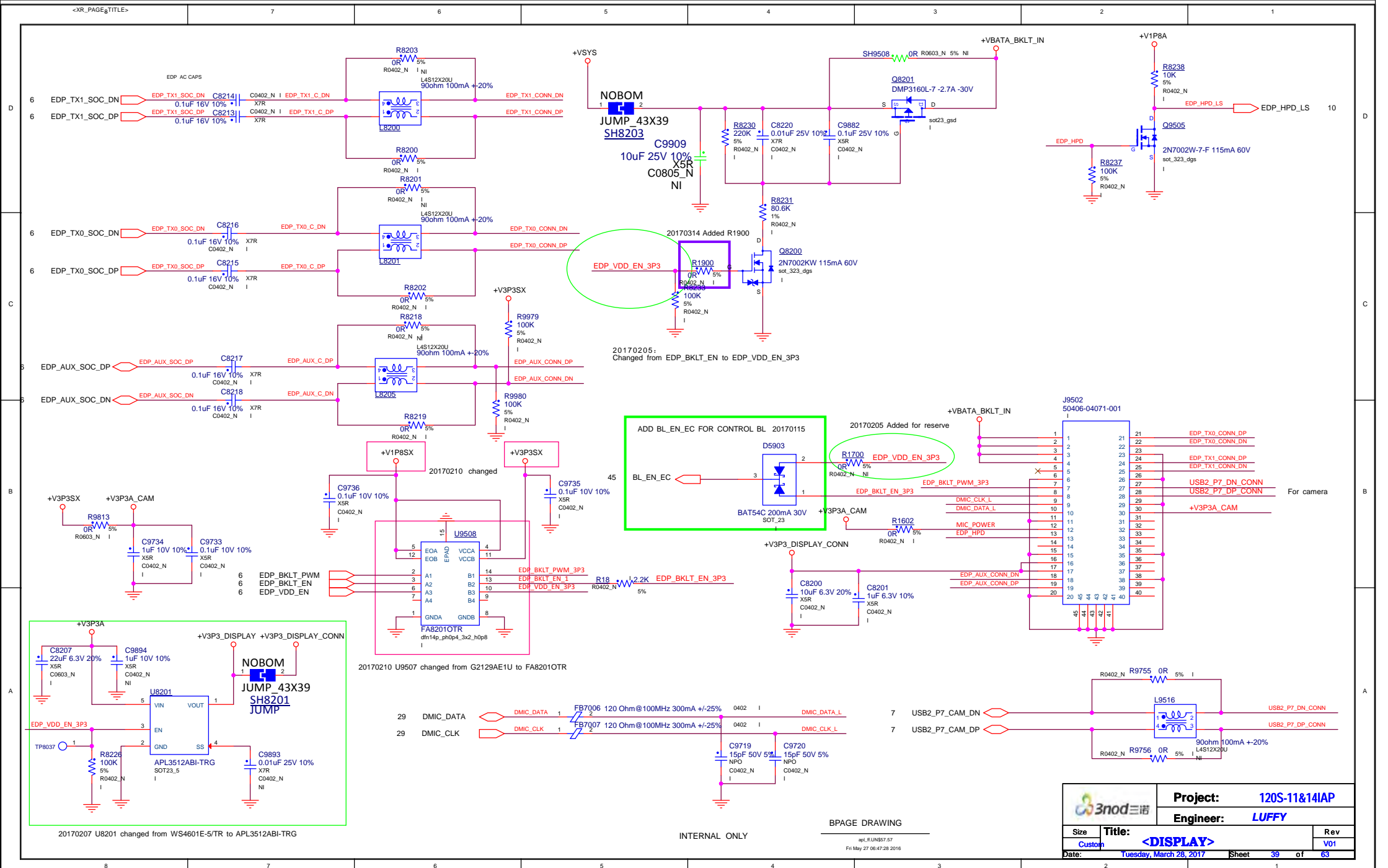
20170314 CR9505/CR9506 changed to NI

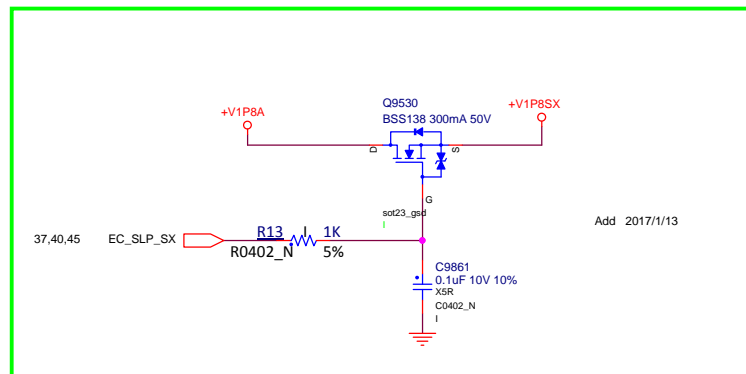
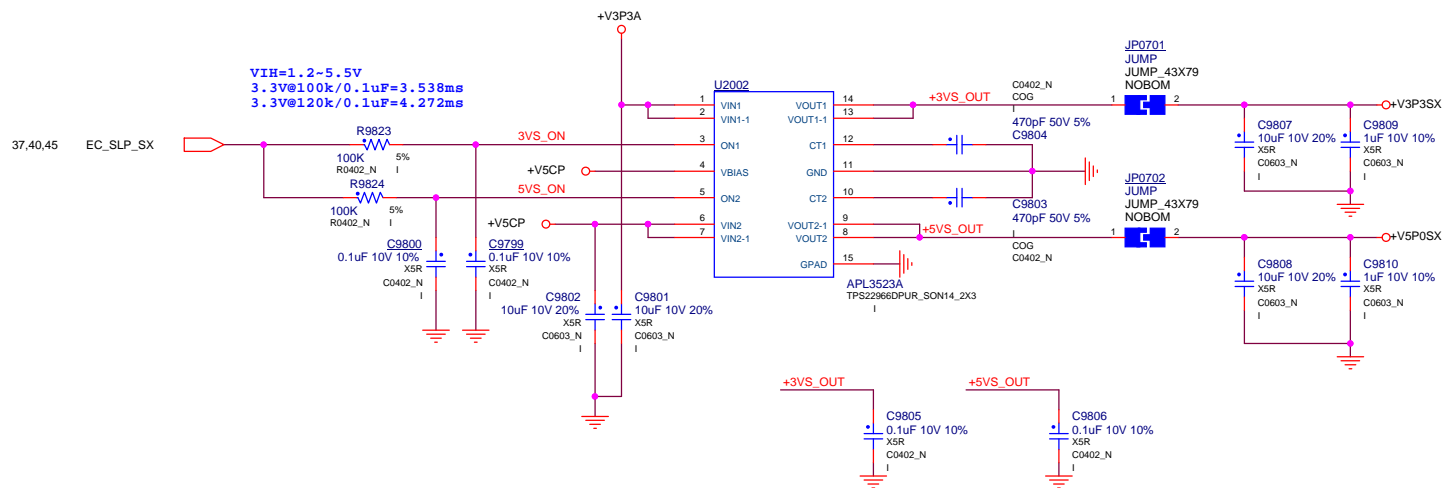


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991_11
Fri May 27 06:47:28 2016

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BPAGE DRAWING


INTERNAL ONLY

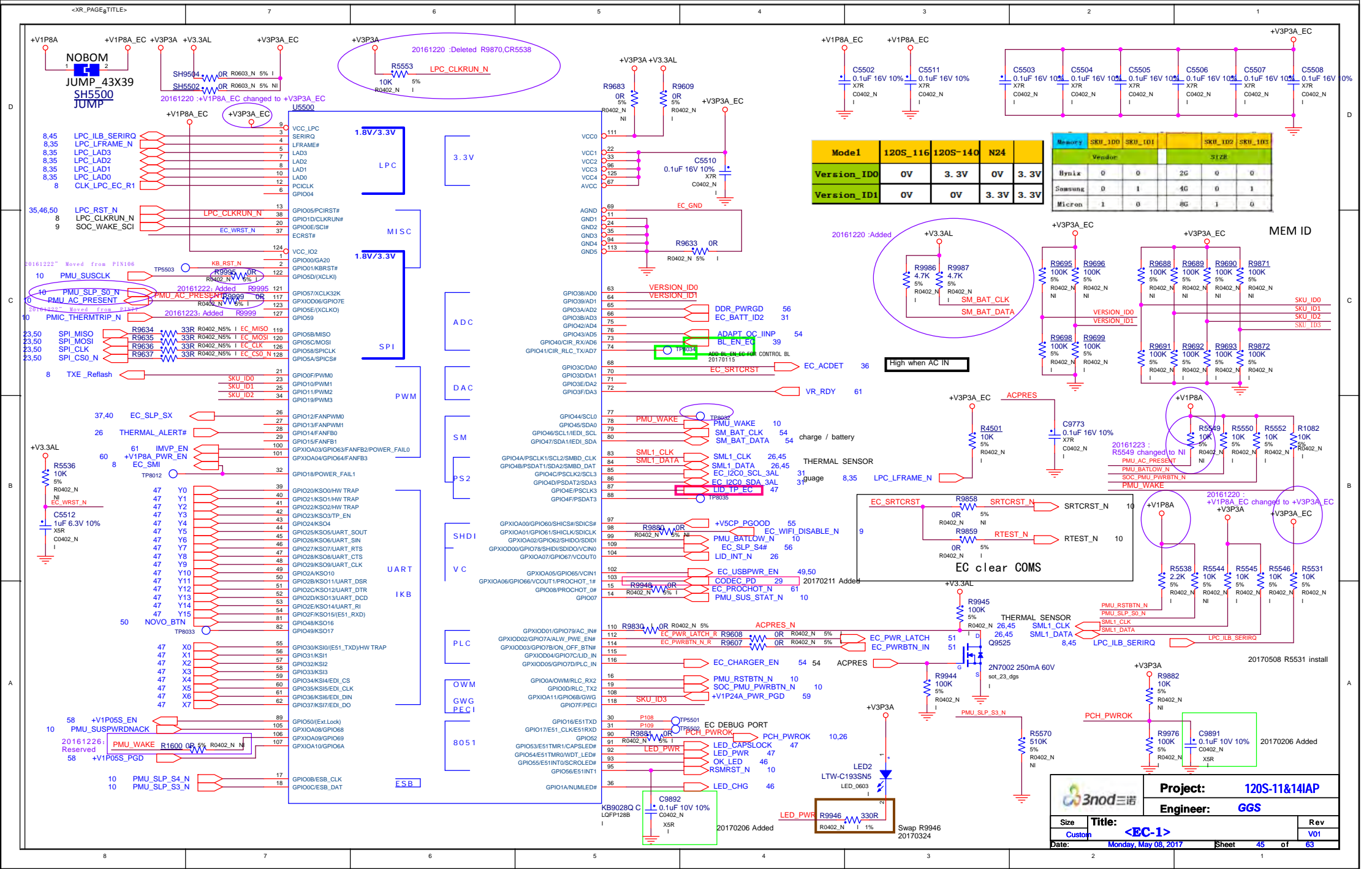
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Fri May 27 06:47:28 2016

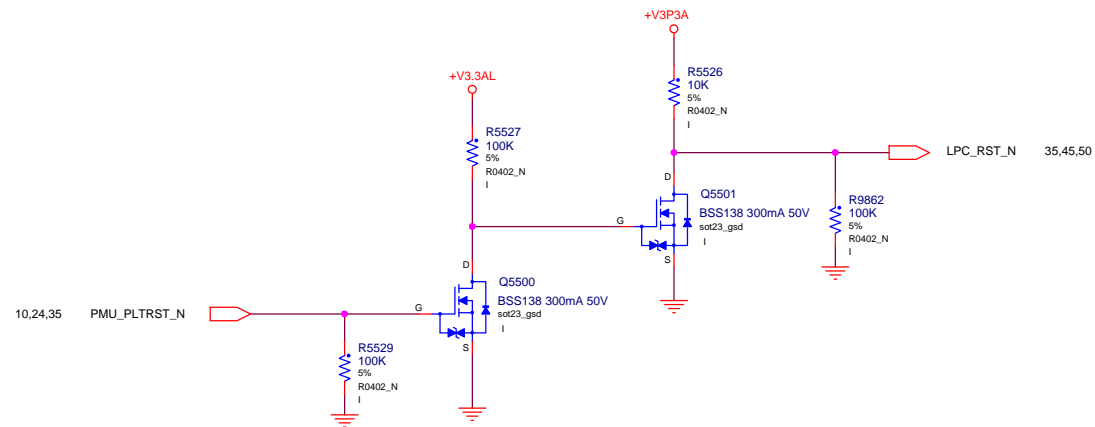
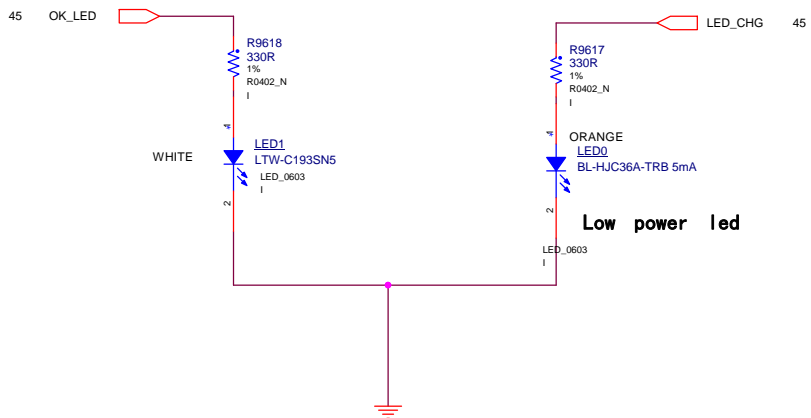
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		Engineer:	LUFFY
Size	Title:	Rev	
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Date:	Tuesday, March 14, 2017	Sheet	40 of 63

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A									A
[PAGE_TITLE=TI PMIC 4 OF 4]				BPAGE DRAWING					
				apl II.5 Fri May 27 06:47:30 2016					
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		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size	Title: <NC>		Rev
Custom			V01
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		Project: 120S-11&14IAP	
		Engineer: LUFFY	
Size Custom	Title: <NC>		Rev V01
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NOTE: CHECK RESET CONNECTION

BPAGE DRAWING

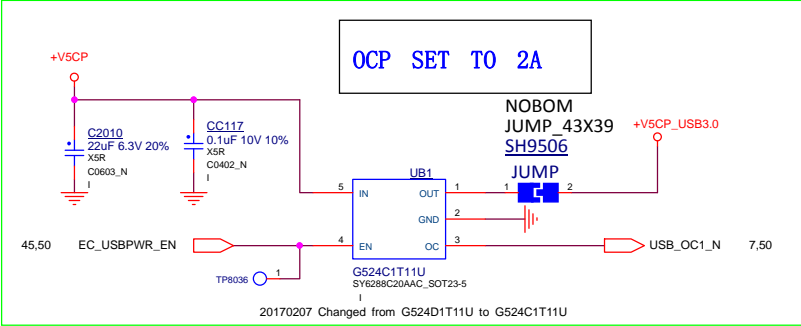
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Fri May 27 06:47:32 2016

Project: 120S-11&14IAP

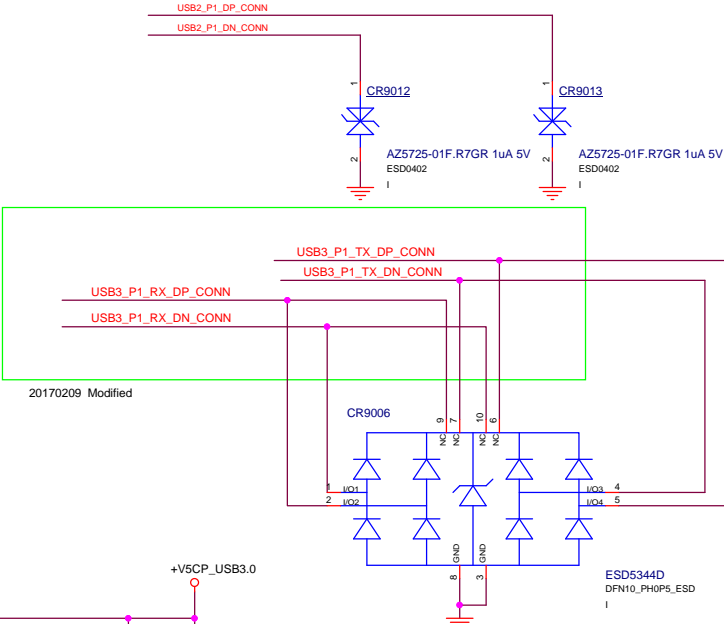
Engineer: LUFFY

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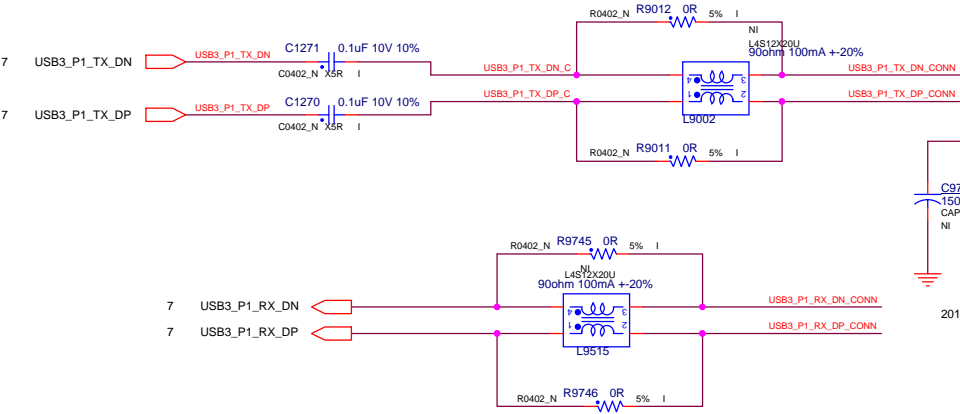
Date: Tuesday, March 14, 2017 Sheet 46 of 63



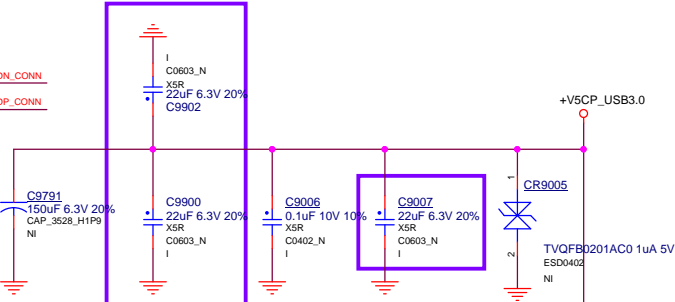
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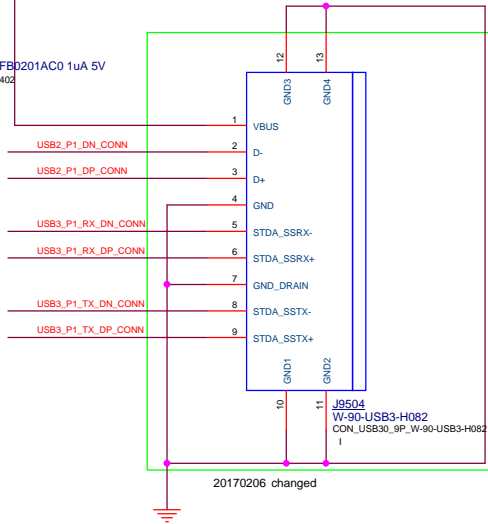
20170209 Modified



20170206 Modified



20170314 Added C9900/C9902;C9791 changed to NI;C9007 changed to I



20170206 changed

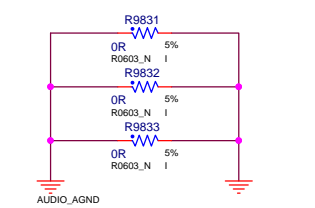
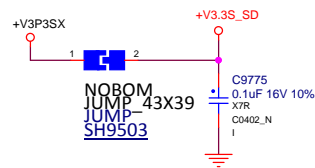
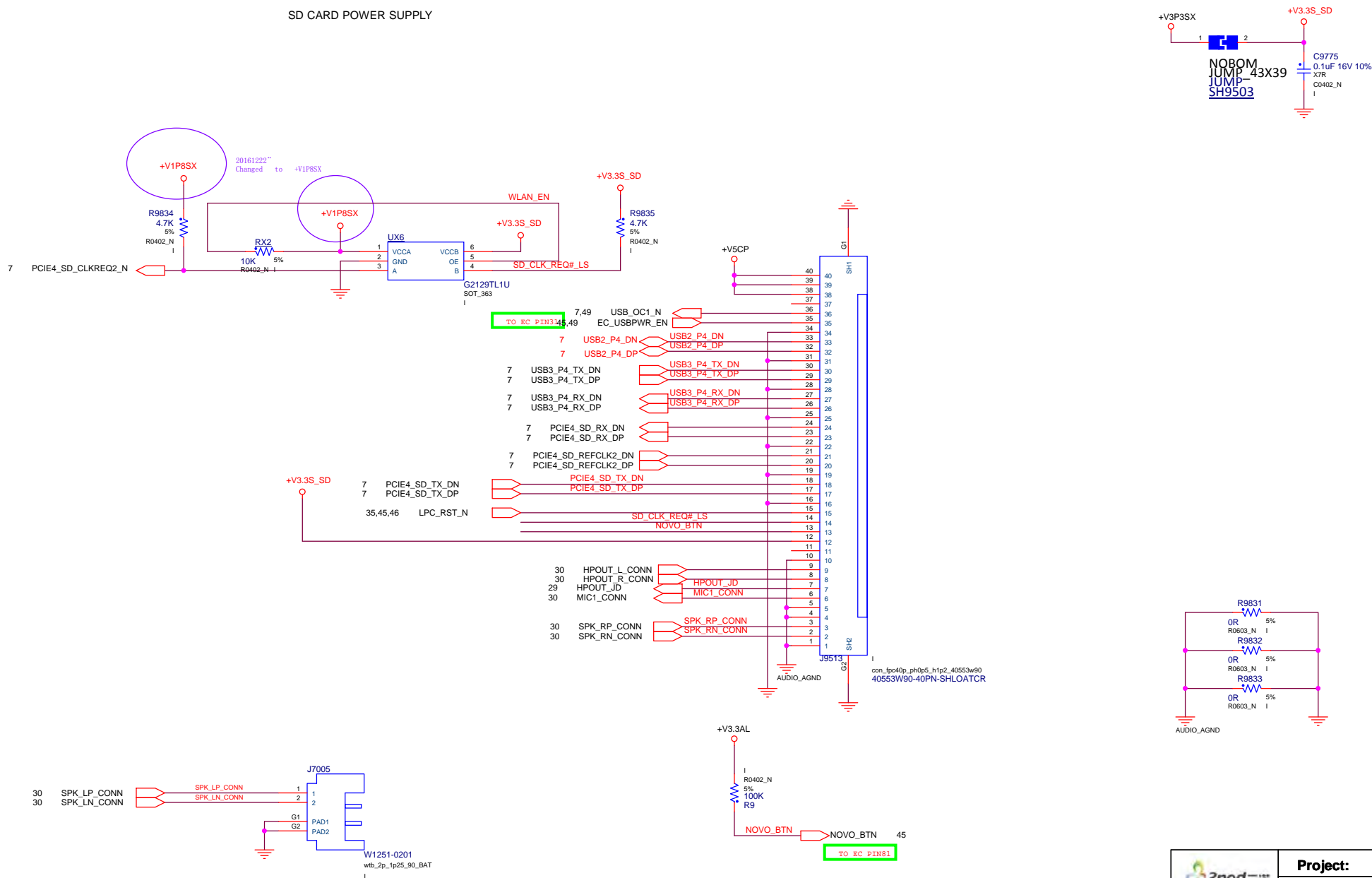
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Date:	Tuesday, March 14, 2017	Sheet	49 of 63

INTERNAL ONLY

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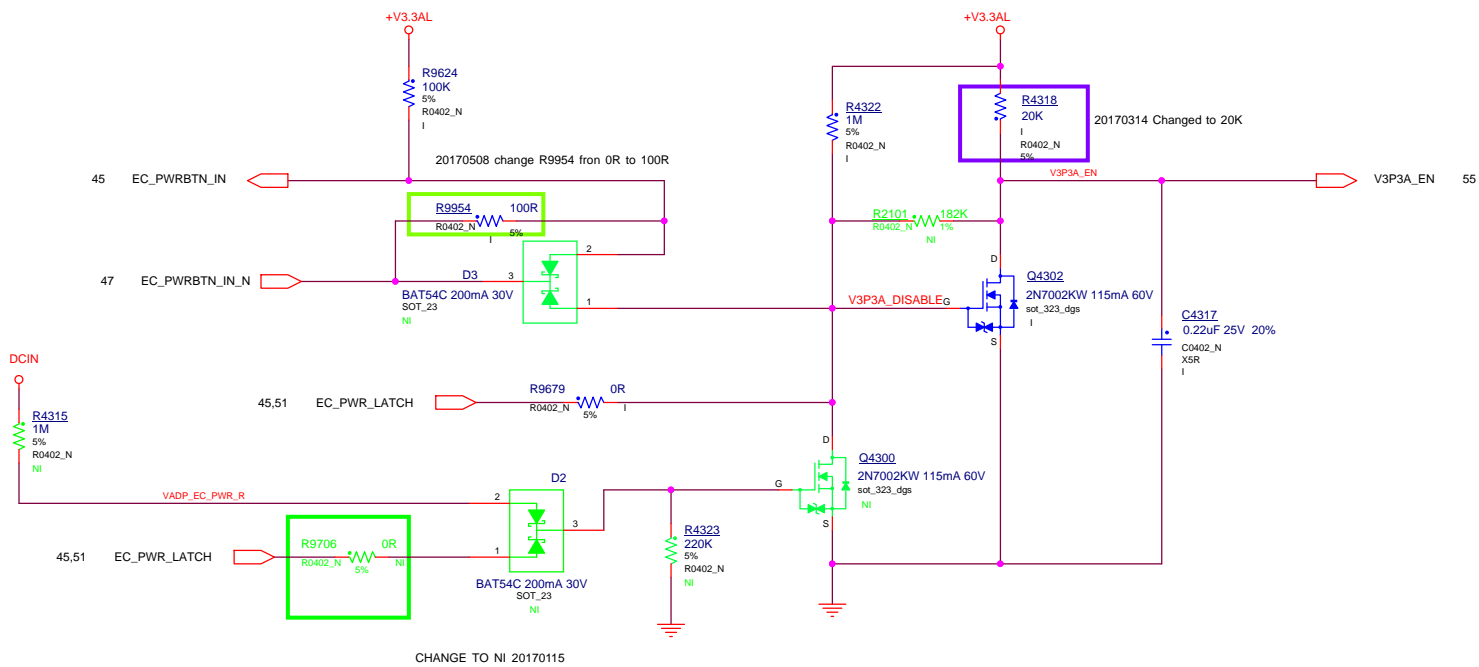
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Fri May 27 08:47:32 2016

SD CARD POWER SUPPLY




BPAGE DRAWING

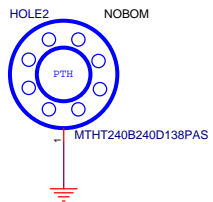
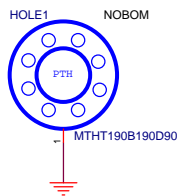
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Date:	Tuesday, March 14, 2017	Sheet	50 of 63
		Rev	V01



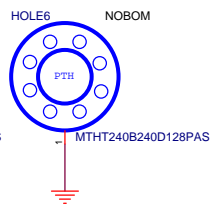
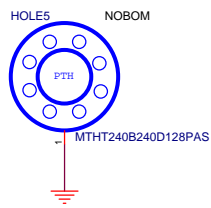
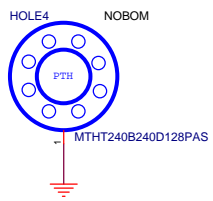
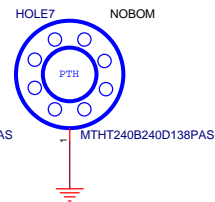
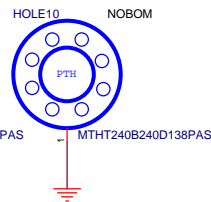
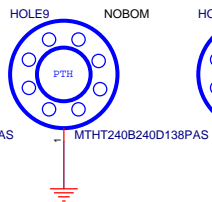
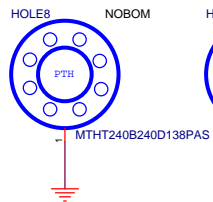
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Size	Title:	Rev	
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Date:	Monday, May 08, 2017	Sheet	51 of 63




20170323 Del HOLE 3



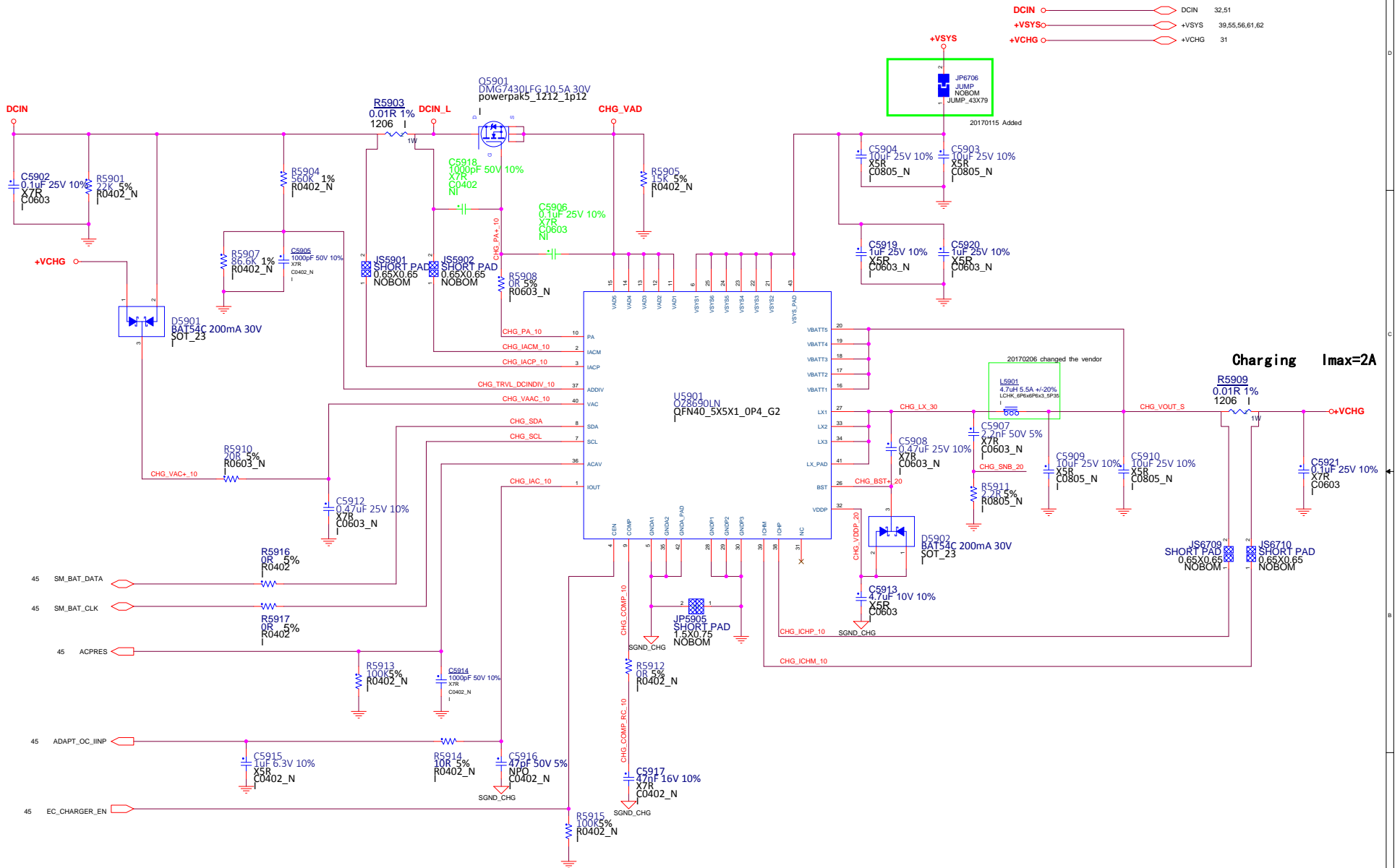
INTERNAL ONLY

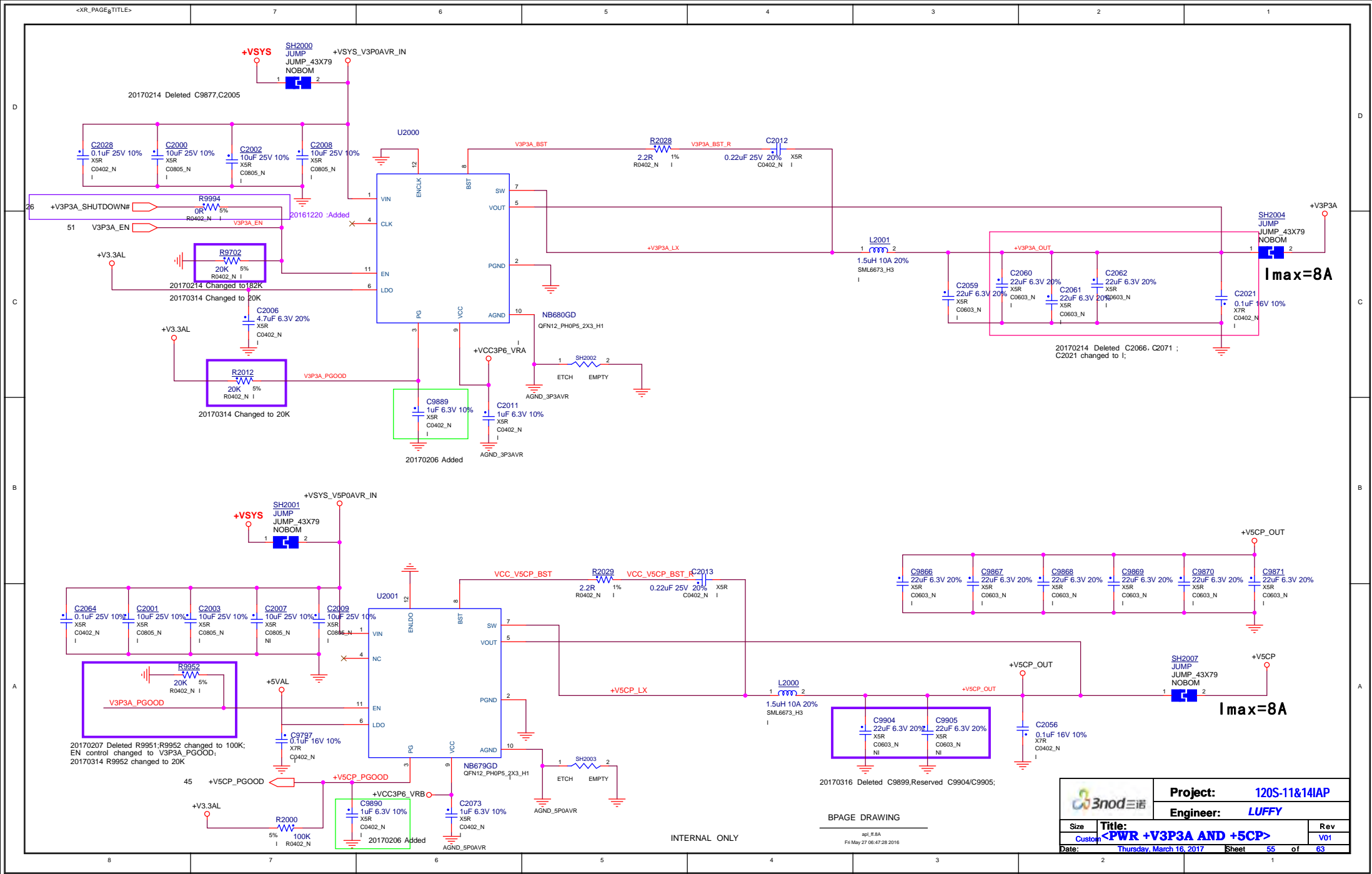
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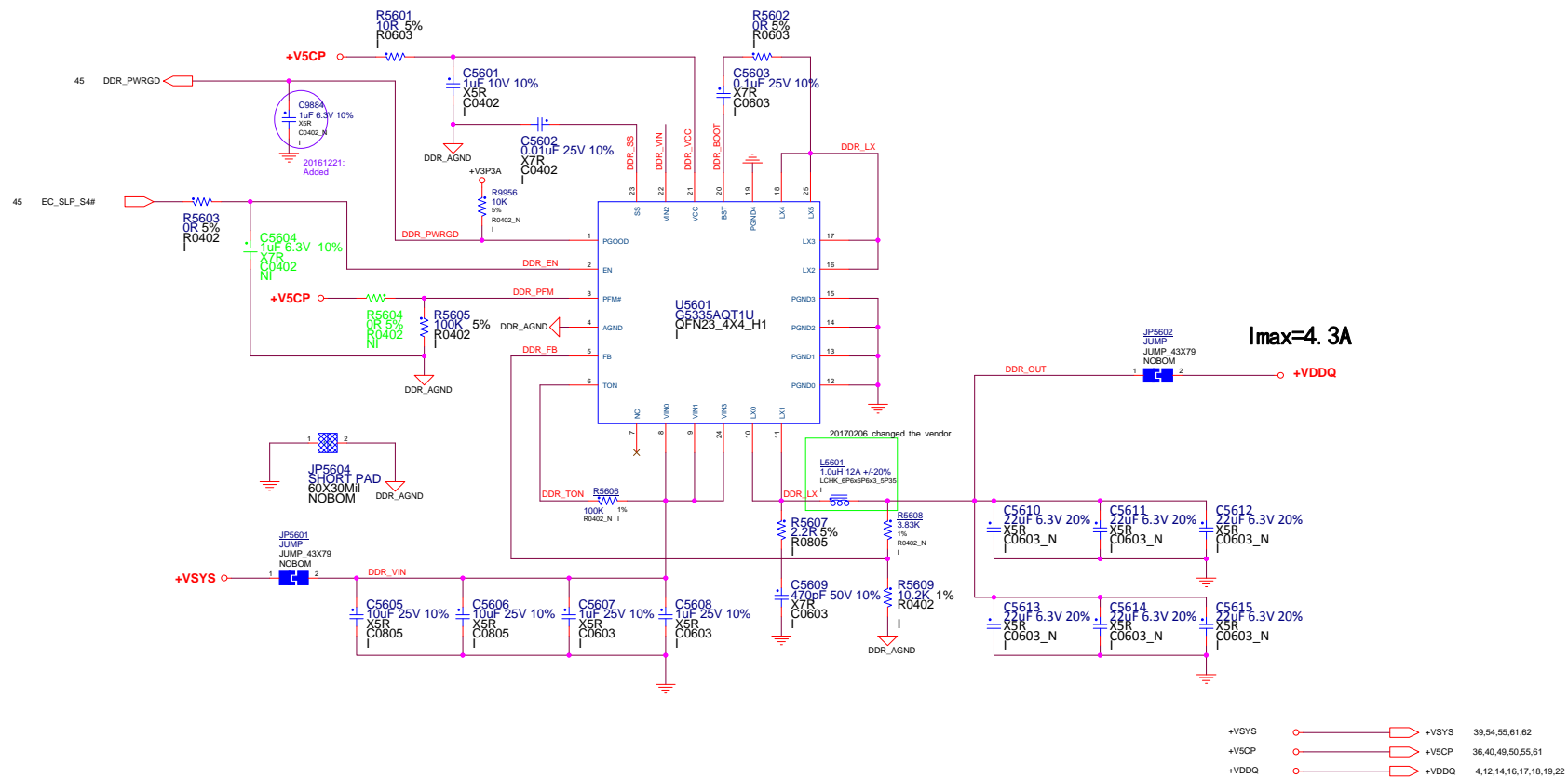
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Date: Friday, March 24, 2017	Sheet 53 of 63		V01

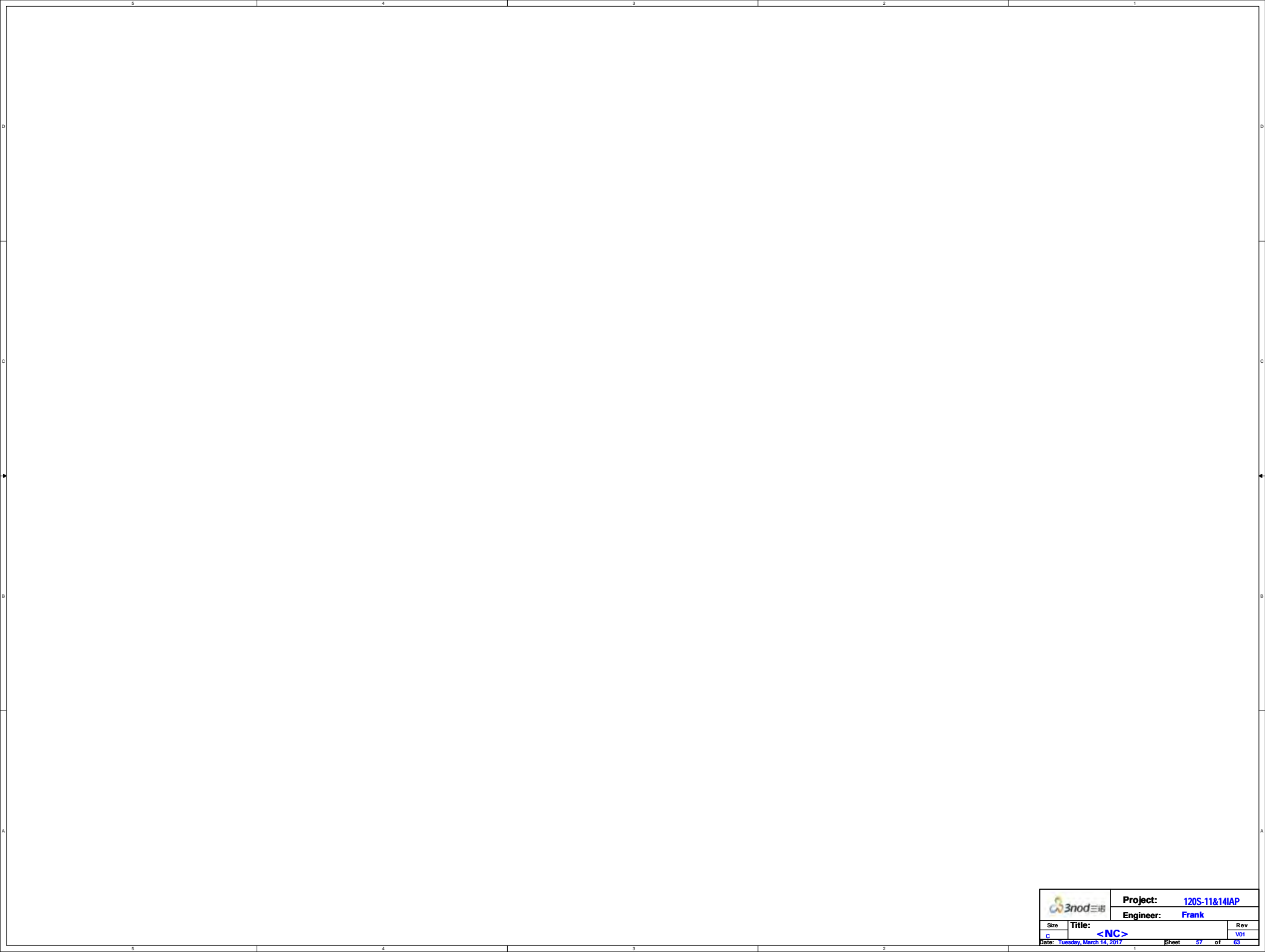
59: BATTERY CHARGER






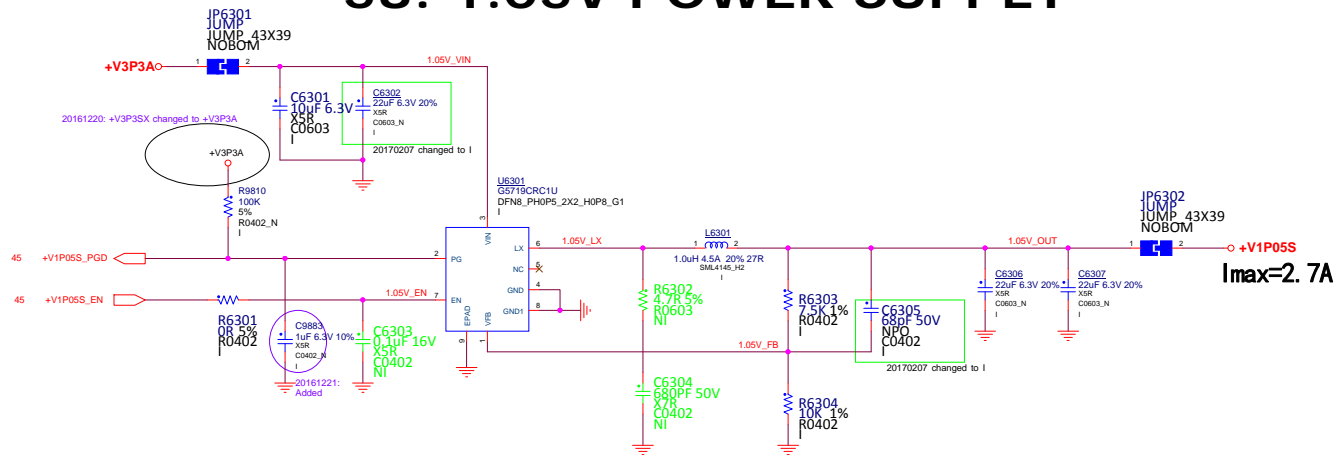
56: DDR POWER SUPPLY



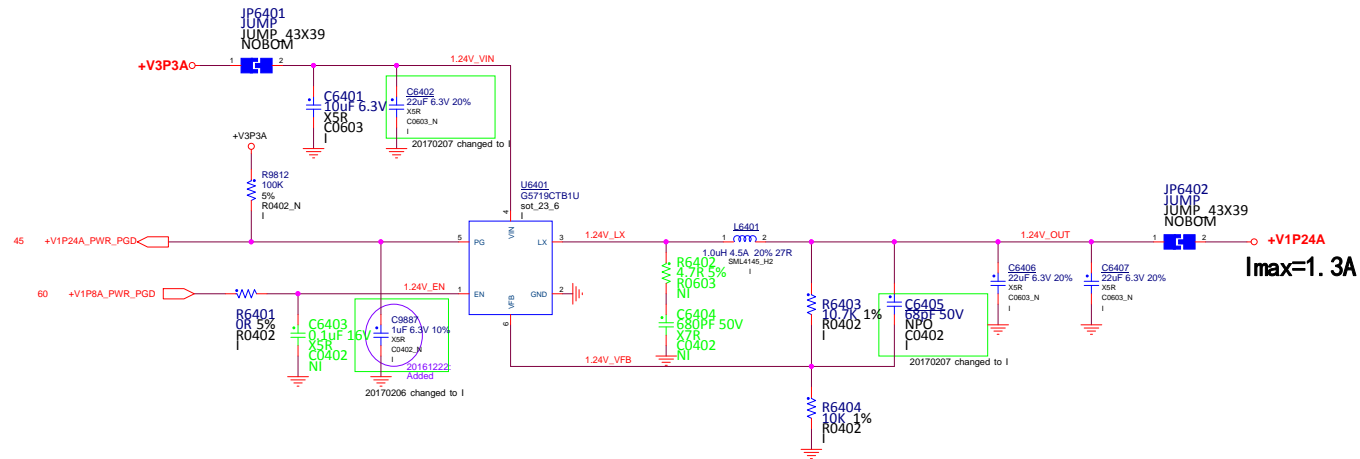


		Project: 120S-11&14IAP	
		Engineer: Frank	
Size	Title:		Rev
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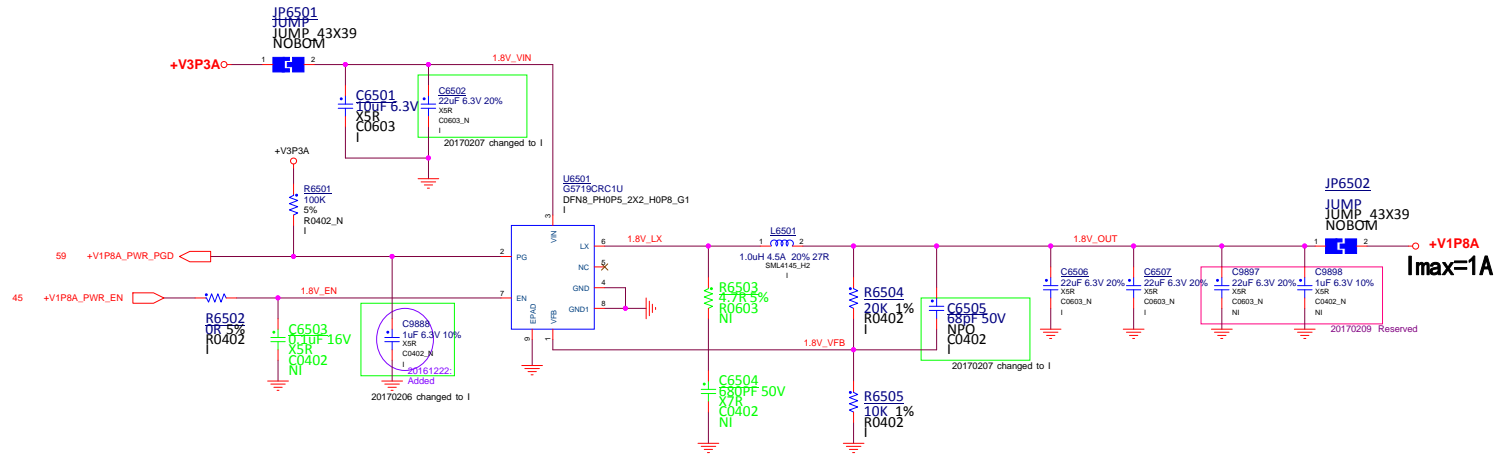
58: 1.05V POWER SUPPLY



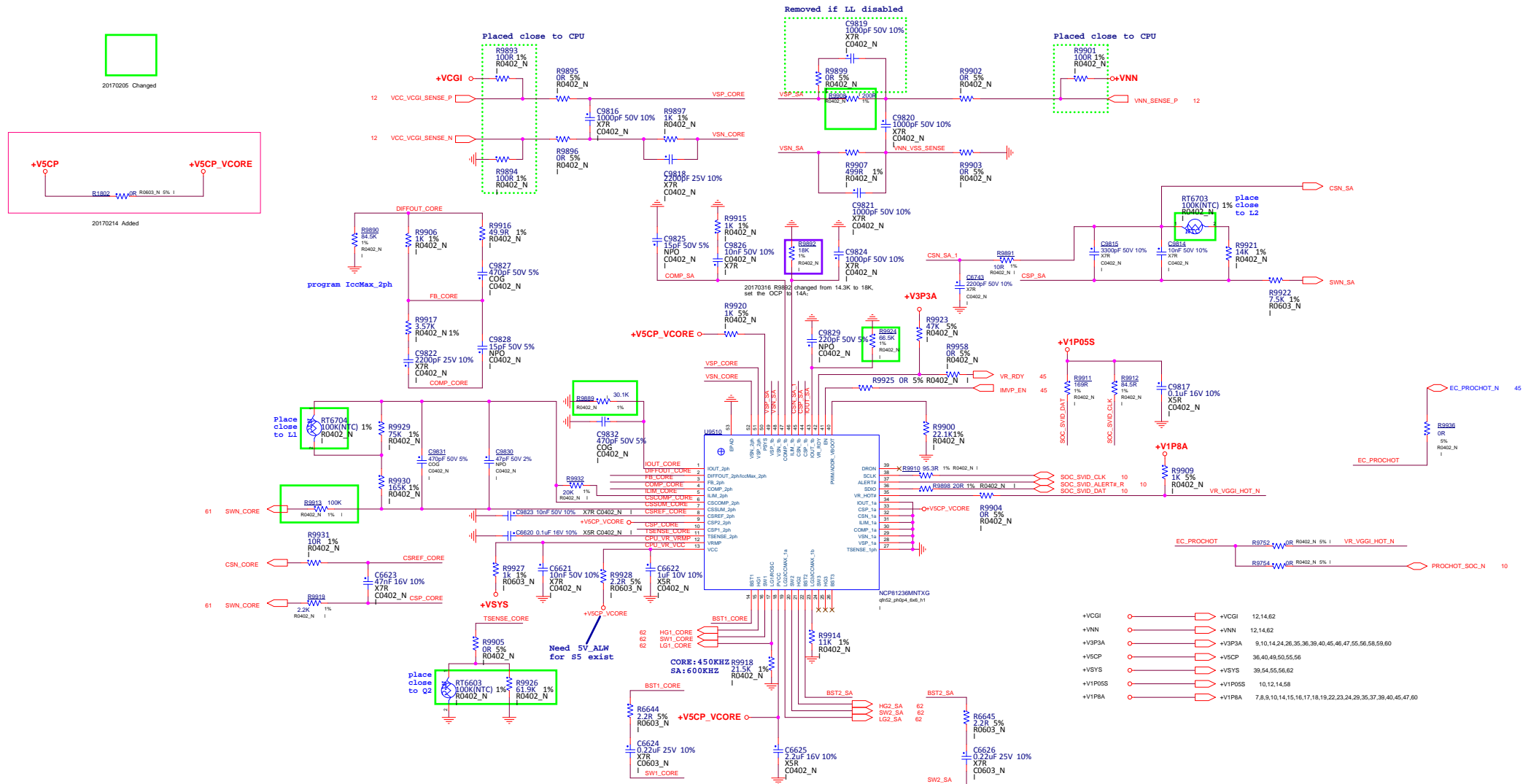
59: 1.24V POWER SUPPLY



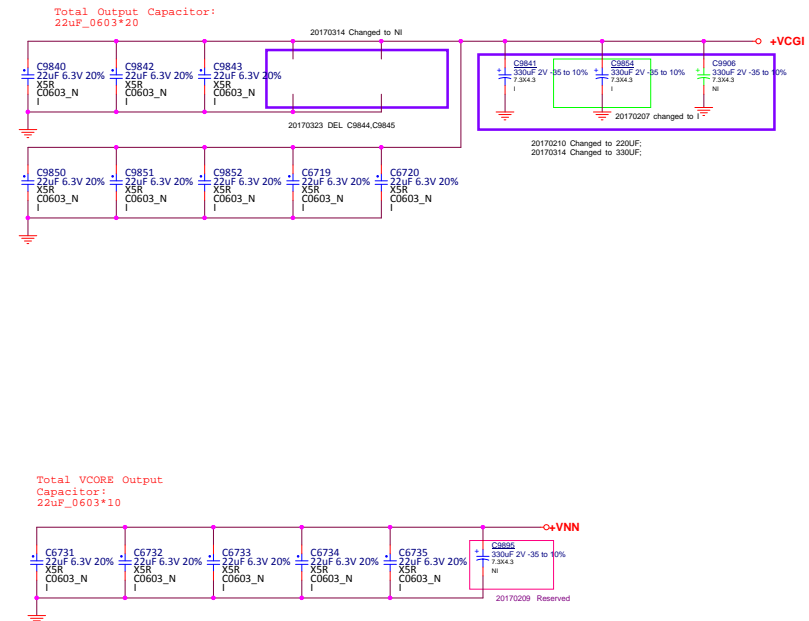
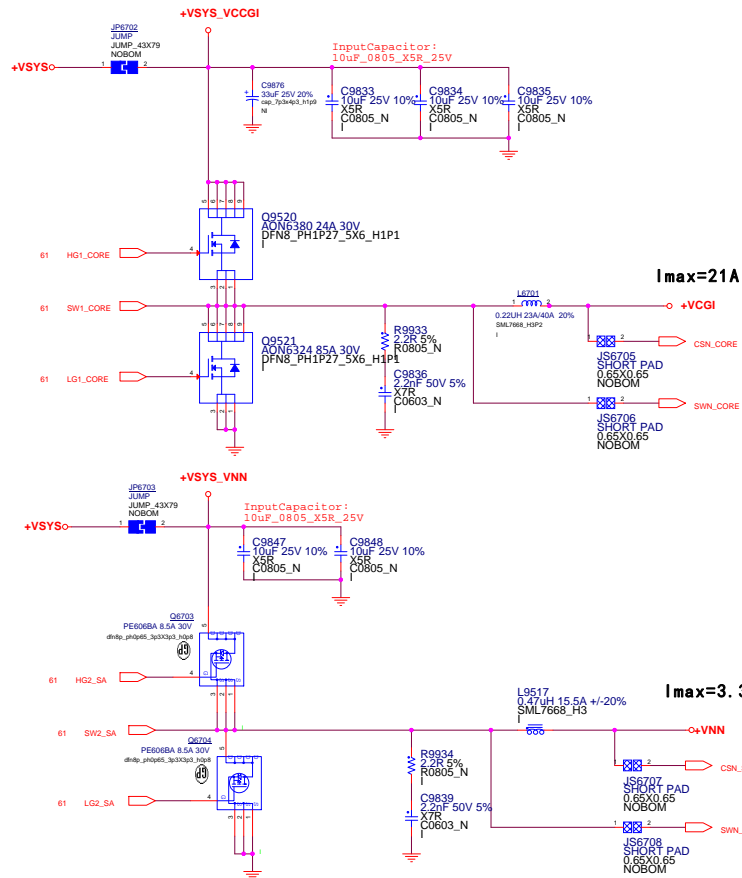
60: +1.8V POWER SUPPLY



CPU POWER SUPPLY



VCGI/VNN POWER SUPPLY



+VCGI 12,14,61
+VNN 12,14,61
+VSYS 39,54,55,56,61

Project: NA		Engineer: Frank	
Size	Title: <VCGI AND VNN_2>	Rev	
Drawn	12,14,61	101	
Date: Thursday, March 23, 2017	Sheet 02 of 03		

Apollo Lake Platform Power Map

