NOTES:

Rev 2, Changes from Rev 1

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1. Rename net RTC_3V3 to be RTC_VCC
2. Add 2.2uF capacitor in series between U4:6 and net PB_EN_N
3. Name newly created net connected to U4:6 to be RTC_IRQ_N
4. Add 100K pull-up R28 from RTC_IRQ_N to RTC_VCC.
5. Add 680K pull-up R22 from PB_EN_N to RTC_VCC.
6. Remove diode D2.
7. Change R10 to be 71.5K to set safety timer to maximum allowable (9.5 hours) value.
8. Change supply voltage to D1 (and hence the RTC U6) from VBATT to VBATT_PTC
9. Change some net names so everything has a specific name.

FD1♦

FD2♦

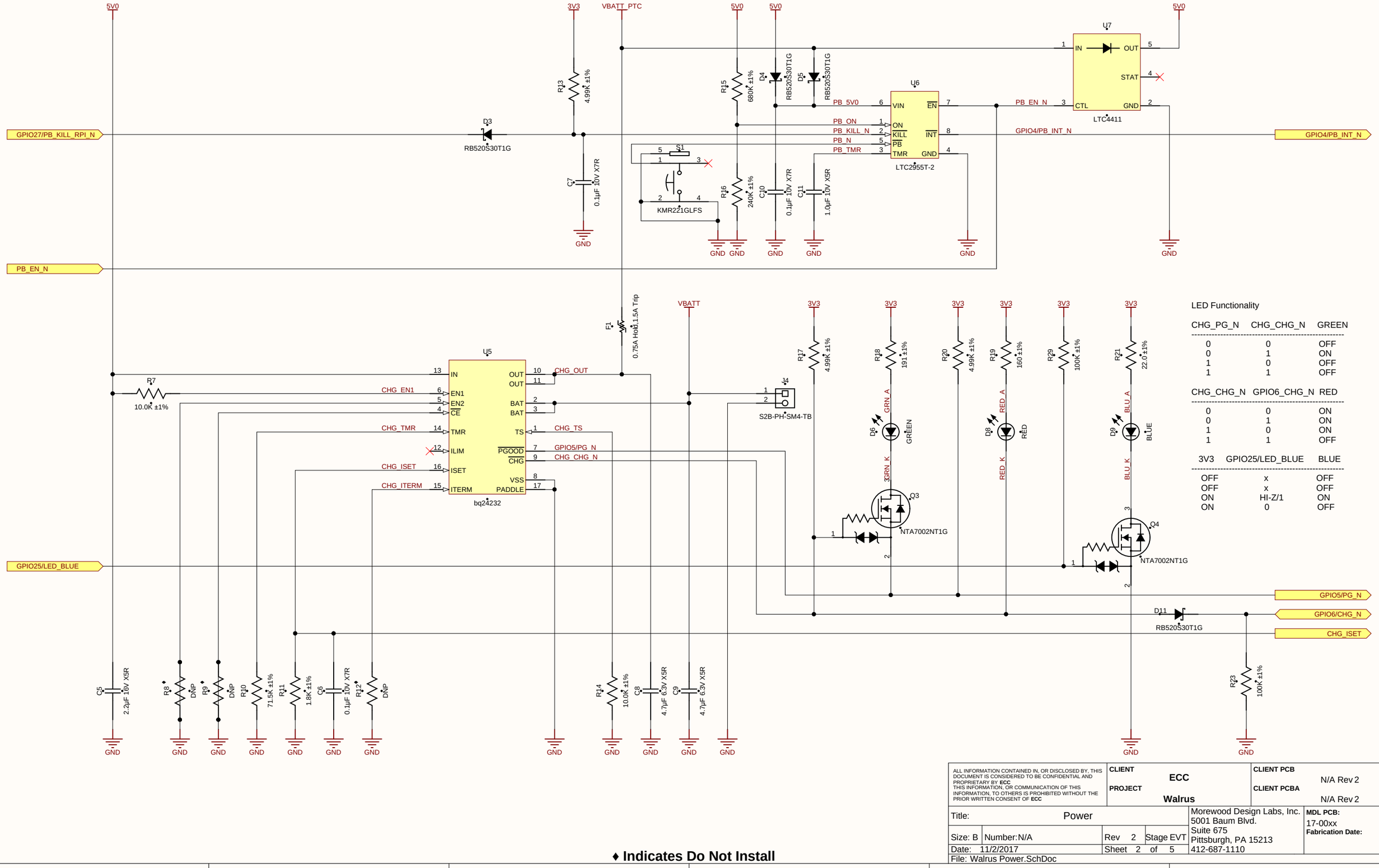
FD3♦

♦ Indicates Do Not Install

CLIENT	**ECC**
PROJECT	**Walrus**
CLIENT PCB	N/A Rev 2
CLIENT PCBA	N/A Rev 2

Title:	Cover Sheet			Morewood Design Labs, Inc. 5001 Baum Blvd. Suite 675 Pittsburgh, PA 15213 412-687-1110
Size: B	Number: N/A	Rev 2	Stage EVT	
Date: 11/2/2017		Sheet 1 of 5		
File: Walrus Coversheet.SchDoc				

MDL PCB: 17-00xx
Fabrication Date:



LED Functionality

CHG_PG_N	CHG_CHG_N	GREEN
0	0	OFF
0	1	ON
1	0	OFF
1	1	OFF

CHG_CHG_N	GPIO6_CHG_N	RED
0	0	ON
0	1	ON
1	0	ON
1	1	OFF

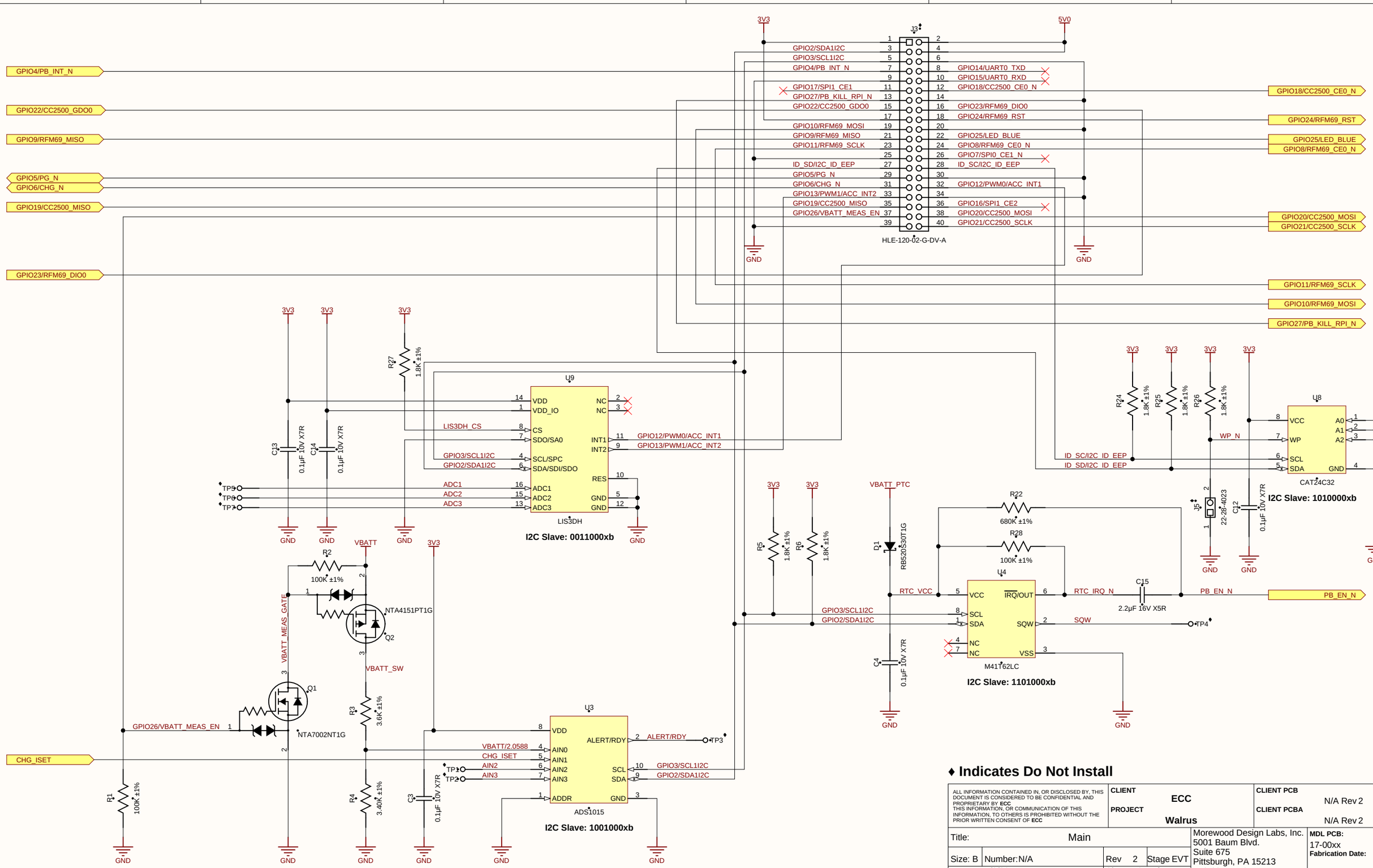
3V3	GPIO25/LED_BLUE	BLUE
OFF	x	OFF
OFF	x	OFF
ON	HI-Z/1	ON
ON	0	OFF

♦ **Indicates Do Not Install**

CLIENT	**ECC**
PROJECT	**Walrus**
CLIENT PCB	N/A Rev 2
CLIENT PCBA	N/A Rev 2

Title: Power			Morewood Design Labs, Inc. 5001 Baum Blvd. Suite 675 Pittsburgh, PA 15213 412-687-1110
Size: B	Number: N/A	Rev 2	Stage EVT
Date: 11/2/2017		Sheet 2 of 5	
File: Walrus Power.SchDoc			

MDL PCB: 17-00xx
Fabrication Date:

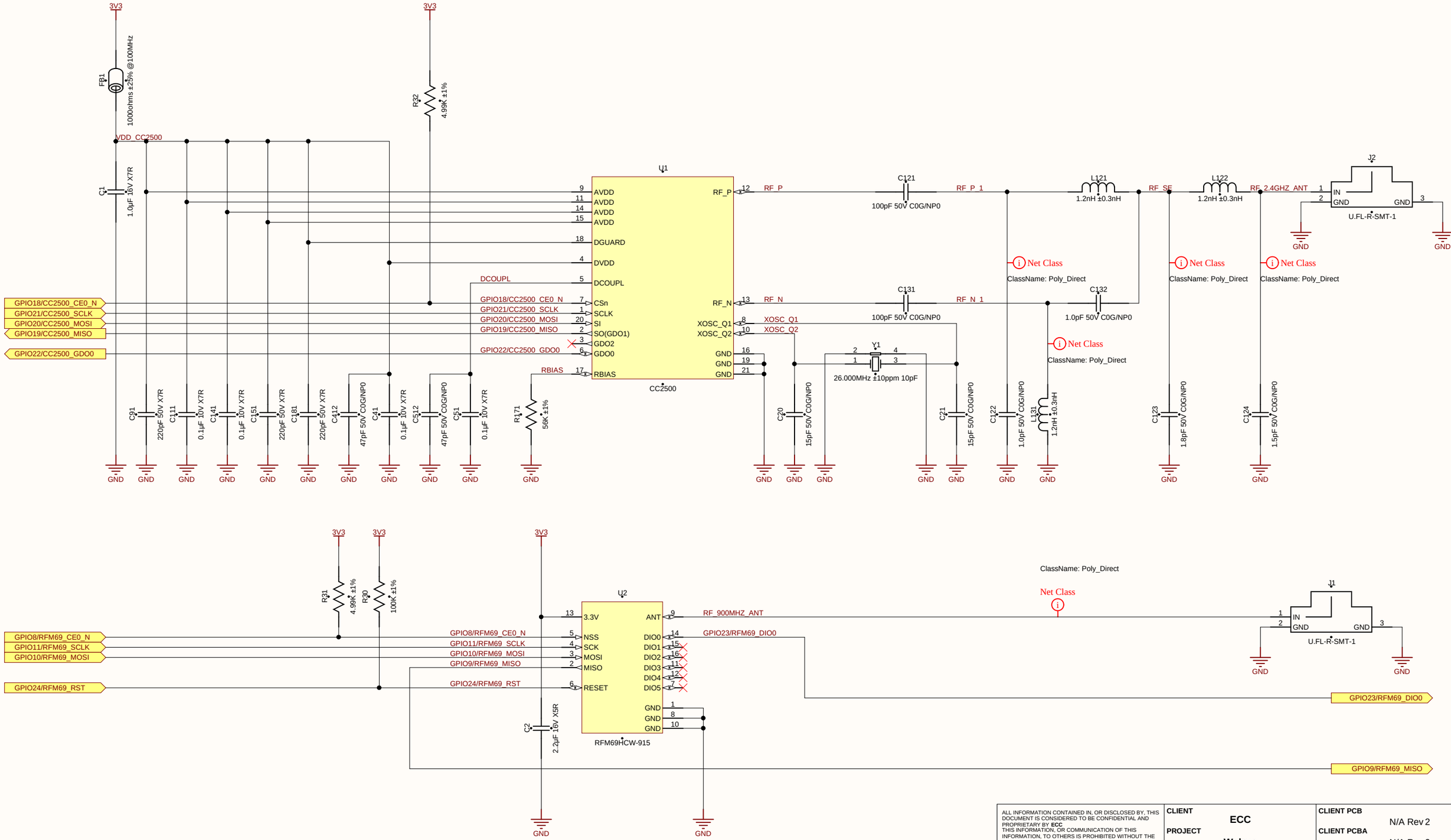


♦ **Indicates Do Not Install**

CLIENT	**ECC**
PROJECT	**Walrus**
CLIENT PCB	N/A Rev 2
CLIENT PCBA	N/A Rev 2

Title: Main			Morewood Design Labs, Inc. 5001 Baum Blvd. Suite 675 Pittsburgh, PA 15213 412-687-1110
Size: B	Number: N/A	Rev 2	Stage EVT
Date: 11/2/2017		Sheet 3 of 5	
File: Walrus Main.SchDoc			

MDL PCB: 17-00xx
Fabrication Date:



♦ **Indicates Do Not Install**

CLIENT	**ECC**
PROJECT	**Walrus**
CLIENT PCB	N/A Rev 2
CLIENT PCBA	N/A Rev 2
Title:	Radio
Size: B	Number: N/A
Rev	2
Stage	EVT
Date:	10/16/2017
Sheet	4 of 5
File:	Walrus Radios.SchDoc

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412-687-1110

MDL PCB: 17-00xx
Fabrication Date:

3V3	TP10
5V0	TP11
ADC1	TP12
ADC2	TP13
ADC3	TP14
AIN2	TP15
AIN3	TP16
ALERT/RDY	TP17
BLU_A	TP18
BLU_K	TP19
CHG_CHG_N	TP20
CHG_EN1	TP21
CHG_ISET	TP22
CHG_ITERM	TP23
CHG_OUT	TP24
CHG_TMR	TP25
CHG_TS	TP26
GND	TP28
GPIO2/SDA1I2C	TP29
GPIO3/SCL1I2C	TP30
GPIO4/PB_INT_N	TP31
GPIO5/PG_N	TP32
GPIO6/CHG_N	TP33
GPIO8/RFM69_CE0_N	TP35
GPIO9/RFM69_MISO	TP36
GPIO10/RFM69_MOSI	TP37
GPIO11/RFM69_SCLK	TP38
GPIO12/PWM0/ACC_INT1	TP39
GPIO13/PWM1/ACC_INT2	TP40
GPIO18/CC2500_CE0_N	TP45
GPIO19/CC2500_MISO	TP46
GPIO20/CC2500_MOSI	TP47
GPIO21/CC2500_SCLK	TP48
GPIO22/CC2500_GDO0	TP49
GPIO23/RFM69_DIO0	TP50
GPIO24/RFM69_RST	TP51
GPIO25/LED_BLUE	TP52
GPIO26/VBATT_MEAS_EN	TP53
GPIO27/PB_KILL_RPI_N	TP54
GRN_A	TP55
GRN_K	TP56
ID_SC/I2C_ID_EEP	TP57
ID_SD/I2C_ID_EEP	TP58
LIS3DH_CS	TP59
PB_5V0	TP60
PB_EN_N	TP61
PB_KILL_N	TP62
PB_N	TP63
PB_ON	TP64
PB_TMR	TP65
RBIAS	TP66
RED_A	TP67
RF_2.4GHZ_ANT	
RTC_IRQ_N	TP75
RTC_VCC	TP76
SQW	TP77
VBATT	TP78
VBATT/2.0588	TP79
VBATT_MEAS_GATE	TP80
VBATT_PTC	TP81
VBATT_SW	TP82
VDD_CC2500	TP83
WP_N	TP84

♦ **Indicates Do Not Install**

CLIENT ECC
PROJECT Walrus
CLIENT PCB N/A Rev 2
CLIENT PCBA N/A Rev 2

Title: Radio
Size: B | Number: N/A | Rev 2 | Stage EVT
Date: 11/4/2017 | Sheet 5 of 5
File: Walrus Test Points.SchDoc

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MDL PCB: 17-00xx
Fabrication Date: