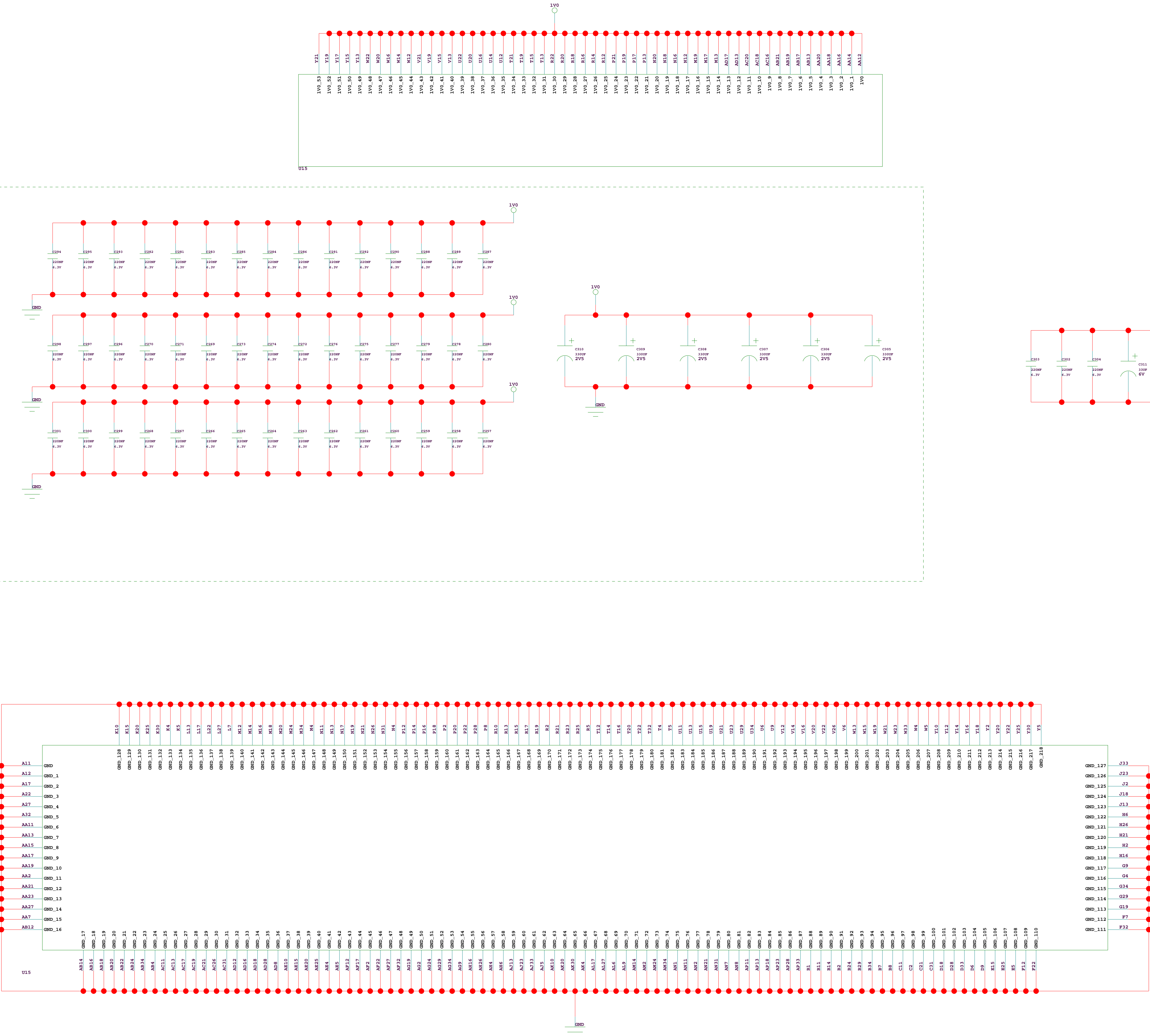


ADJUSTMENT AND T2 RESISTOR VALUES TBD  
SOURCE VOLTAGES TO BE SELECTED

ROACH/iBOB2			ROACH_PSU		
COLLABORATORS:			DOC NO	REVISION	
CASPER GROUP, UC BERKELEY NRAO, SOONERO BARRAT, CAPE TOWN			NRF-ADM-XXX-SD-0001	A	
DESCRIPTION			RECONFIGURABLE OPEN ARCHITECTURE HW		
http://casper.berkeley.edu/					
10-5-2007.15:15					
PATH			DRWN:	F KAPP	APP:
PATH			CHECKED:	R BAUERMEISTER	SHEET
			3 OF 25		



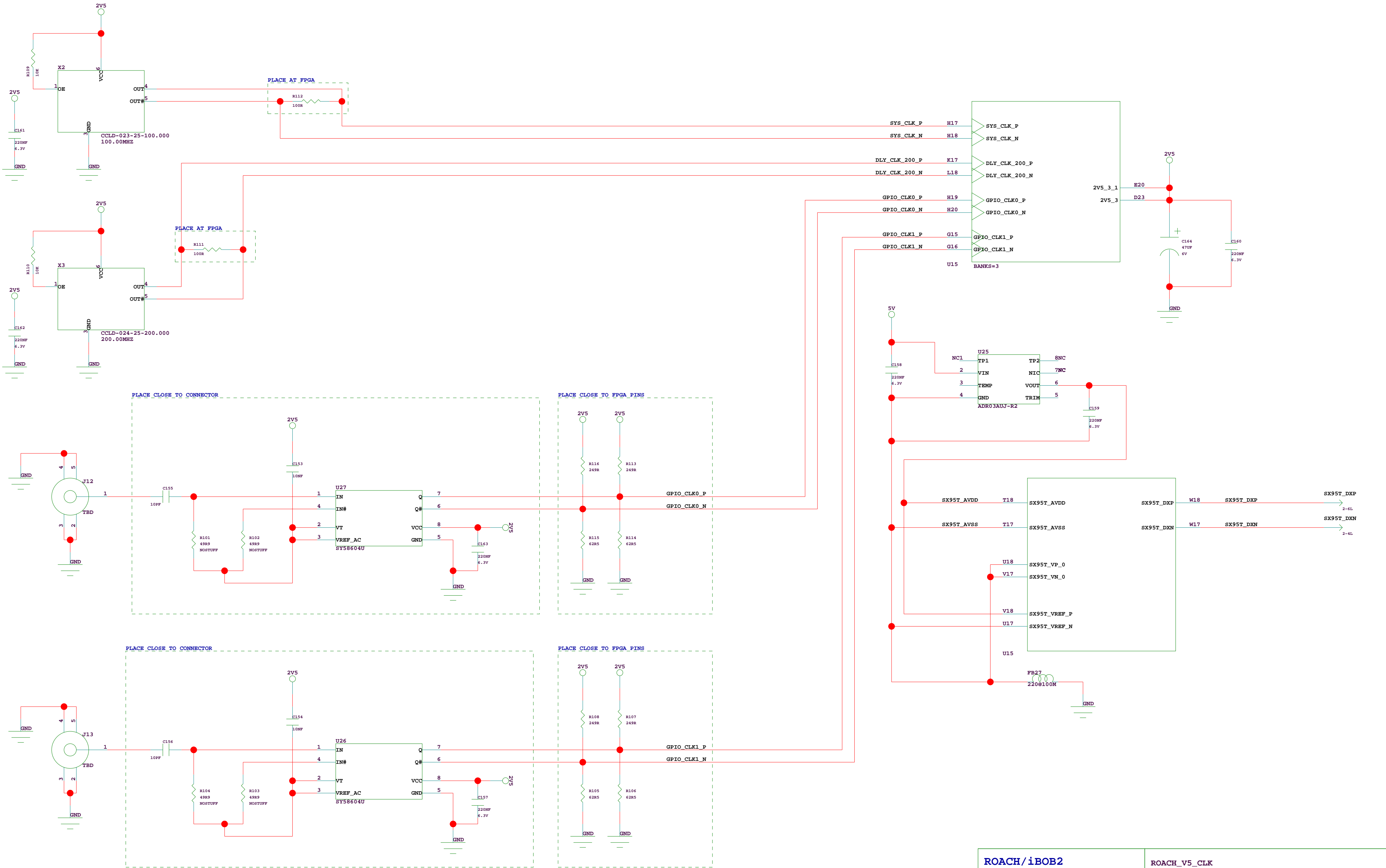


ROACH/iBOB2		ROACH_ADC_0	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN  http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
10-5-2007_15:15	DRAWN: F KAPP	APPR:	
PATH PATH	CHECKED: E BAUERMEISTER	SHEET 5 OF 25	

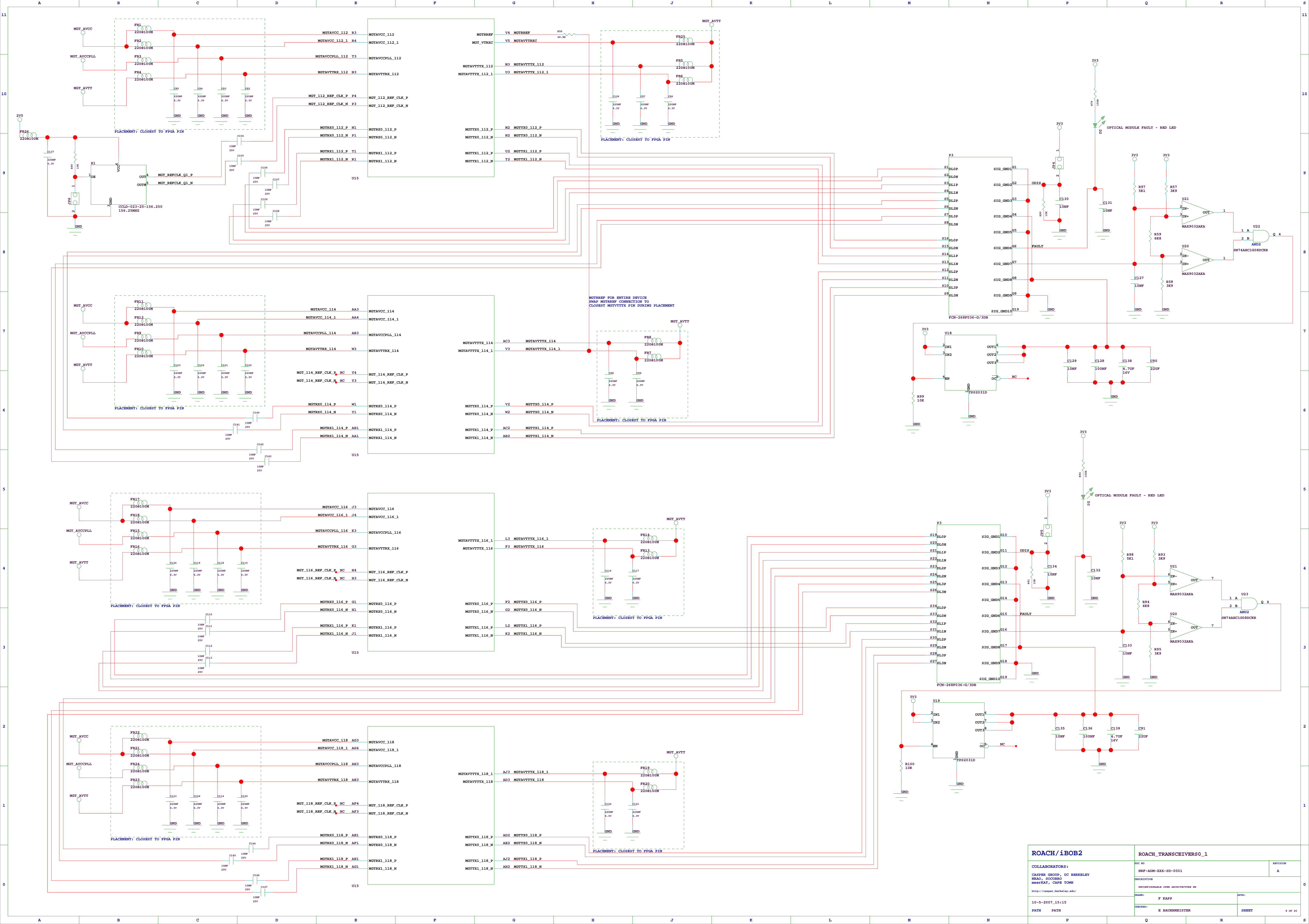




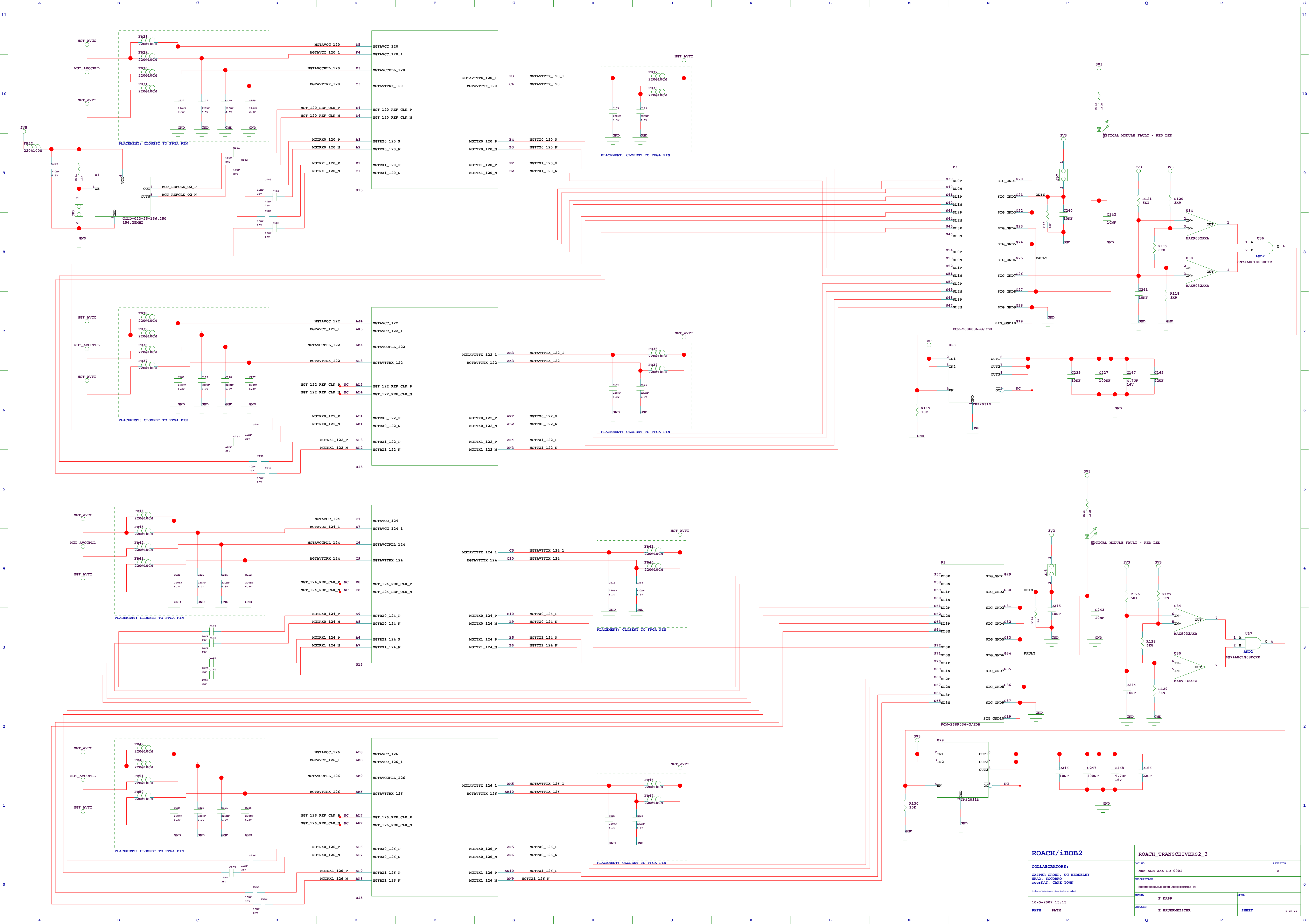
ROACH/iBOB2		ROACH_ADC_1	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN  http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
10-5-2007_15:15 PATH PATH	DRAWN: F KAPP		APPR:
	CHECKED: E BAUERMEISTER		SHEET 6 OF 25

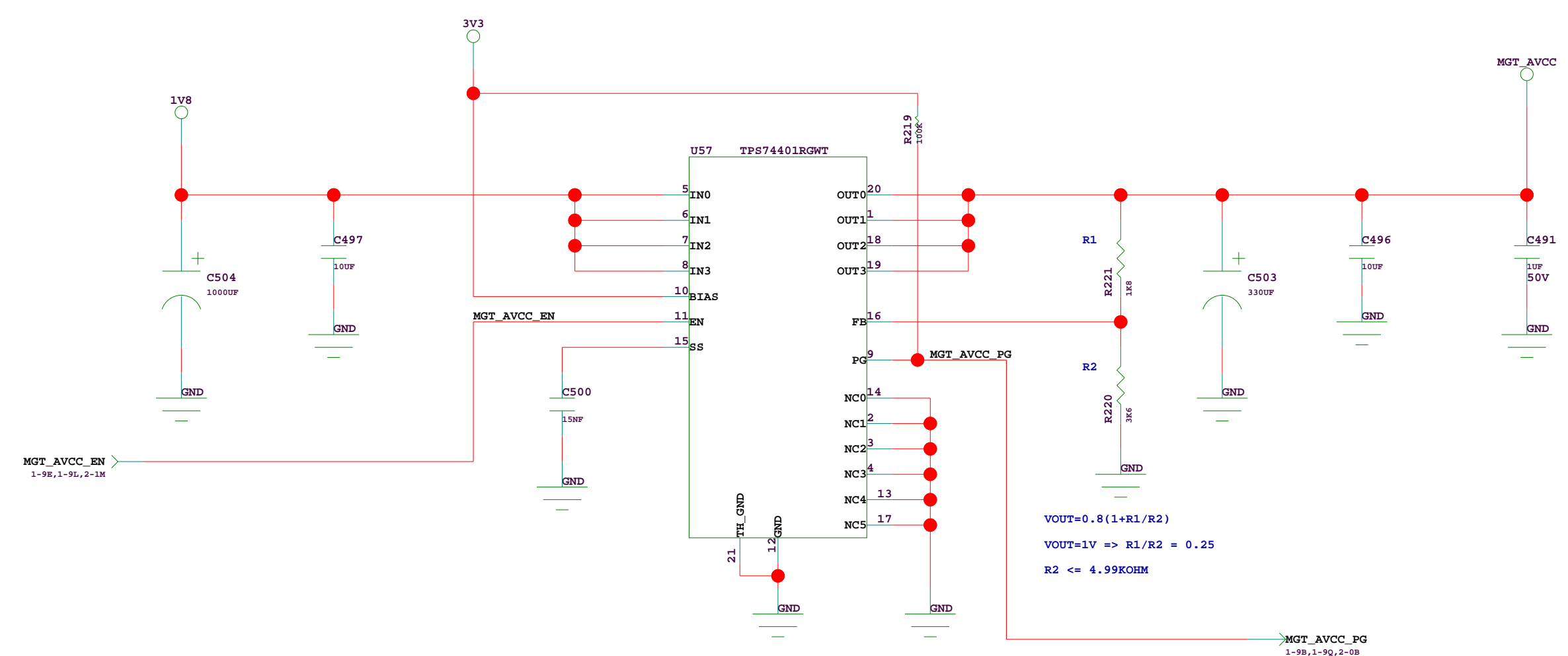


ROACH/iBOB2		ROACH_V5_CLK	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
NRAO, SOCORRO		DESCRIPTION	
meerKAT, CAPE TOWN		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		DRAWN:	APPR:
10-5-2007_15:15		F KAPP	
PATH		CHECKED:	SHEET
		E BAUERMEISTER	7 OF 25



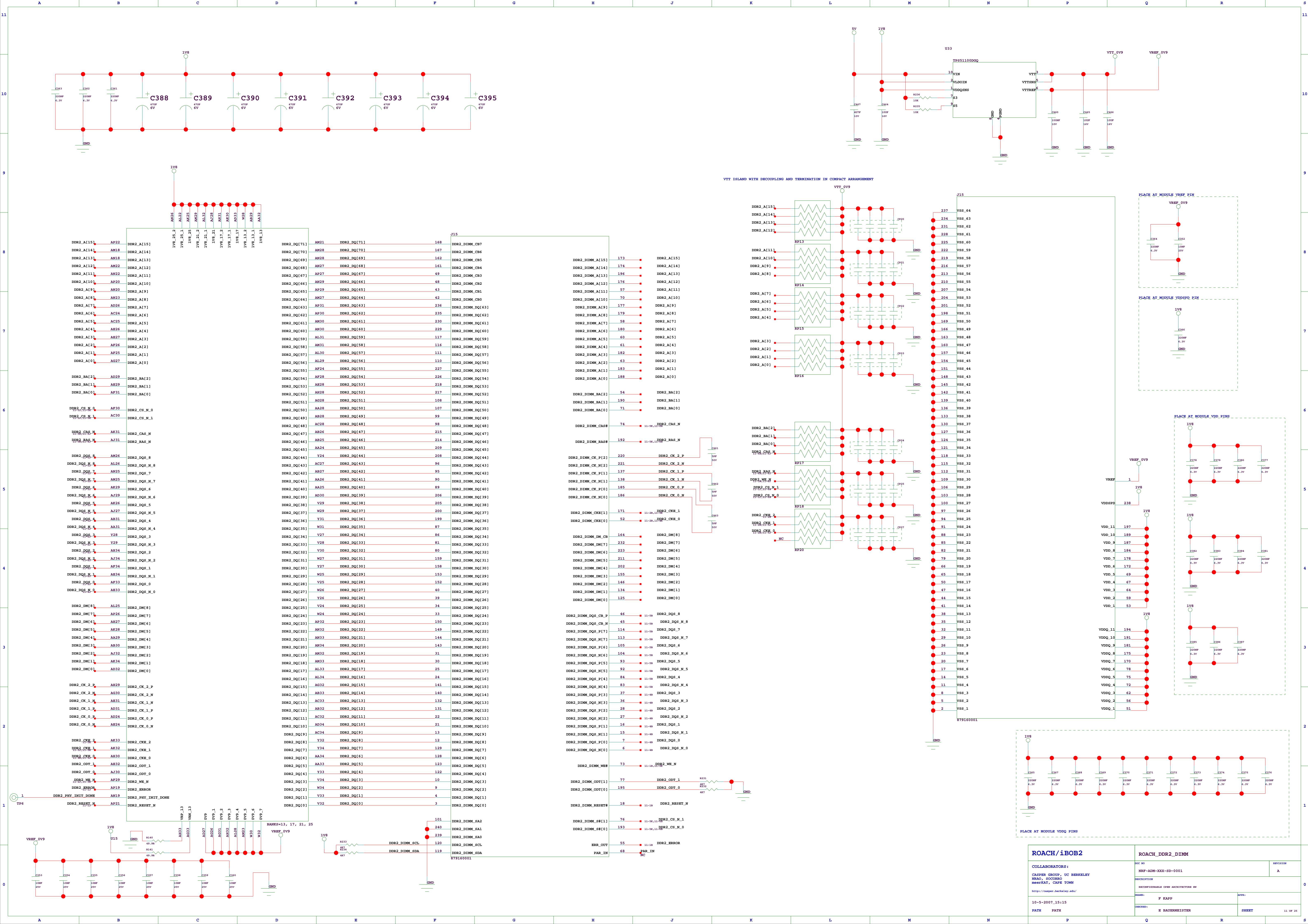




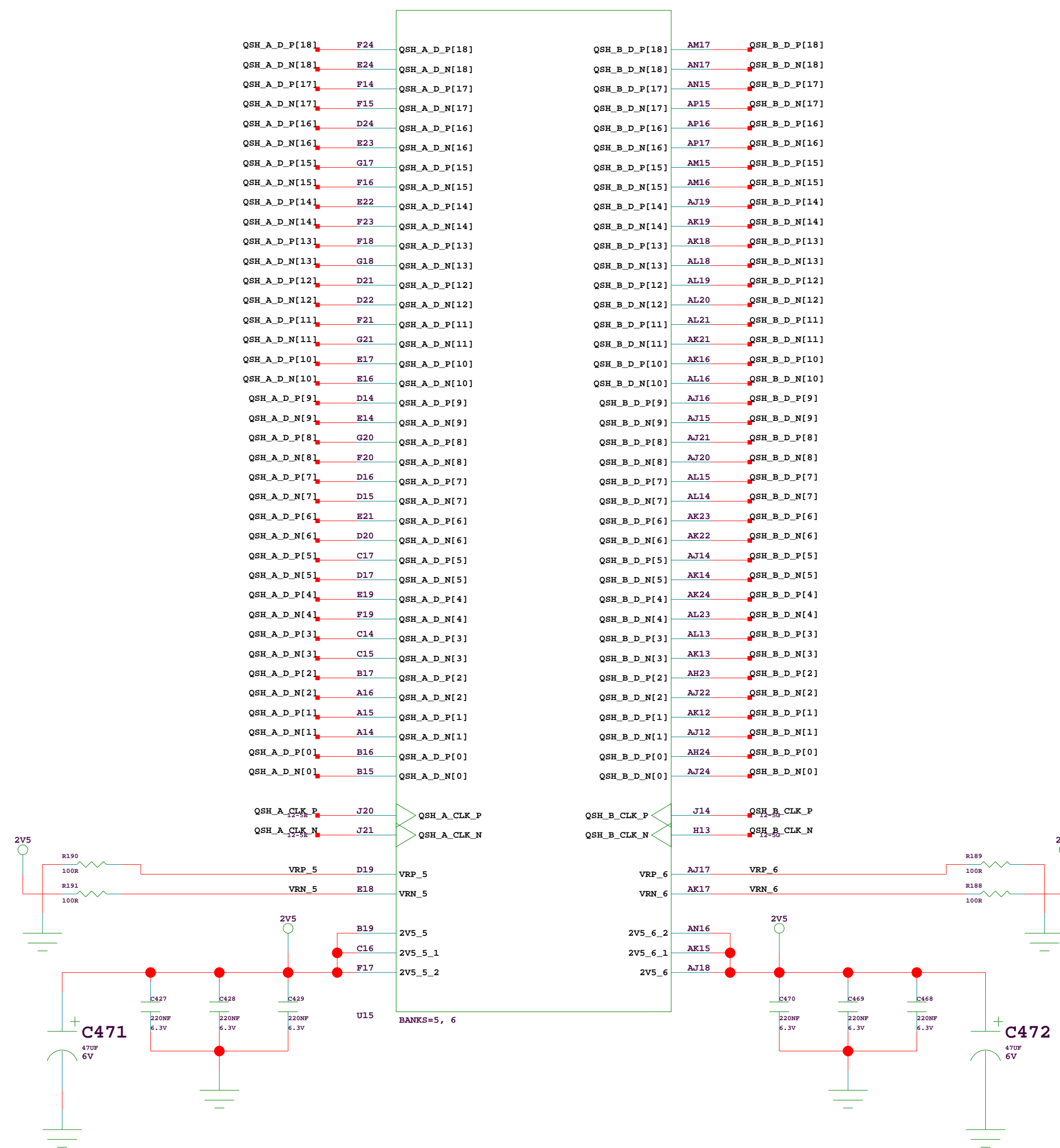
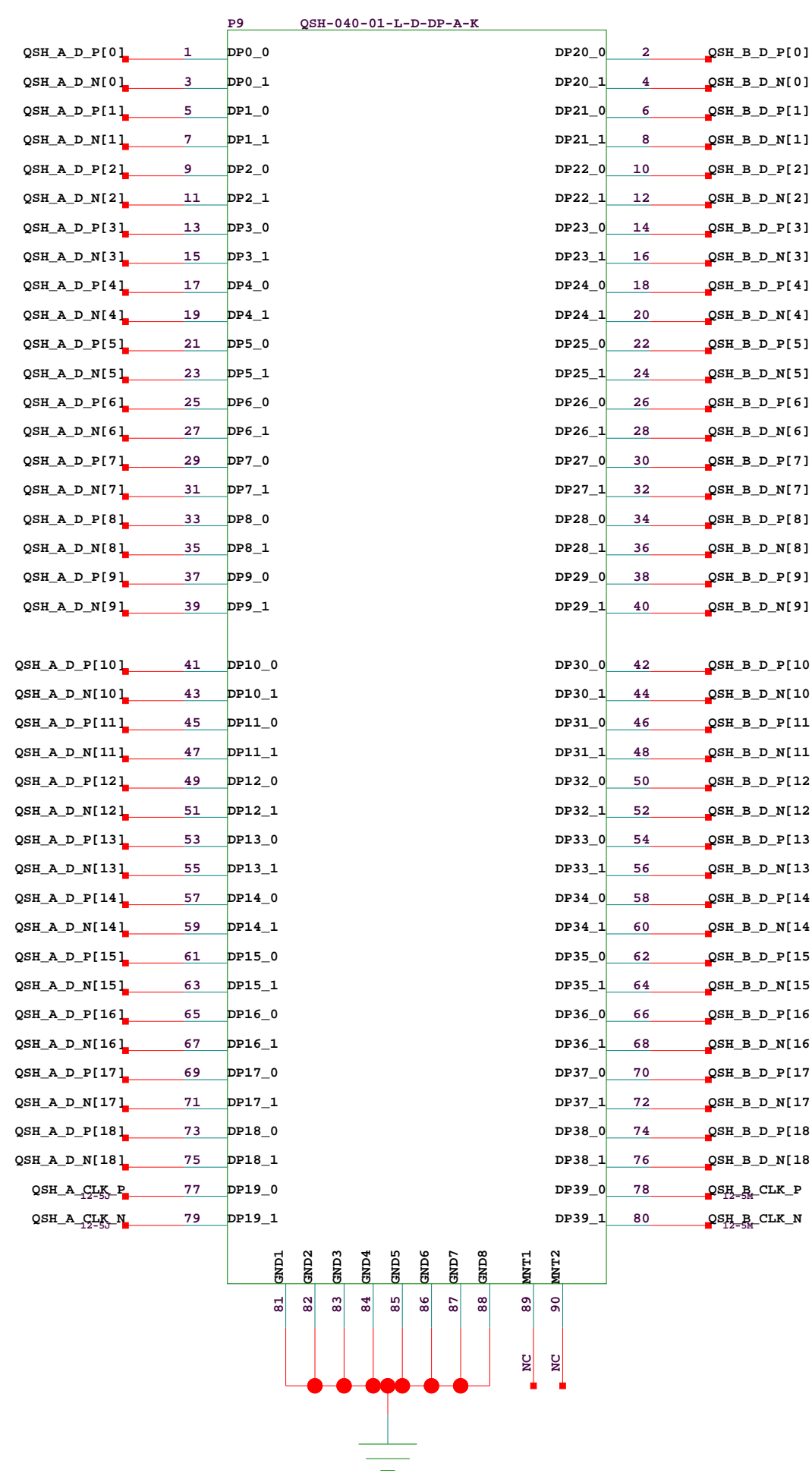


<b>ROACH/iBOB2</b>		<b>ROACH_TRANSCEIVERS_PSU</b>	
<b>COLLABORATORS:</b> CASPER GROUP, UC BERKELEY HEAD, SPOCSED beerKAT, CAPE TOWN <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>		<b>DOC NO</b> NRP-ADM-XXX-SD-0001 <b>DESCRIPTION</b> RECONFIGURABLE OPEN ARCHITECTURE SW	<b>REVISION</b> A
10-5-2007 15:15		<b>NAME:</b> F KAPP	<b>APP:</b>
PATH PATH		<b>CHECKED:</b> E BAUMERMEISTER	<b>SHEET</b> 10 OF 25

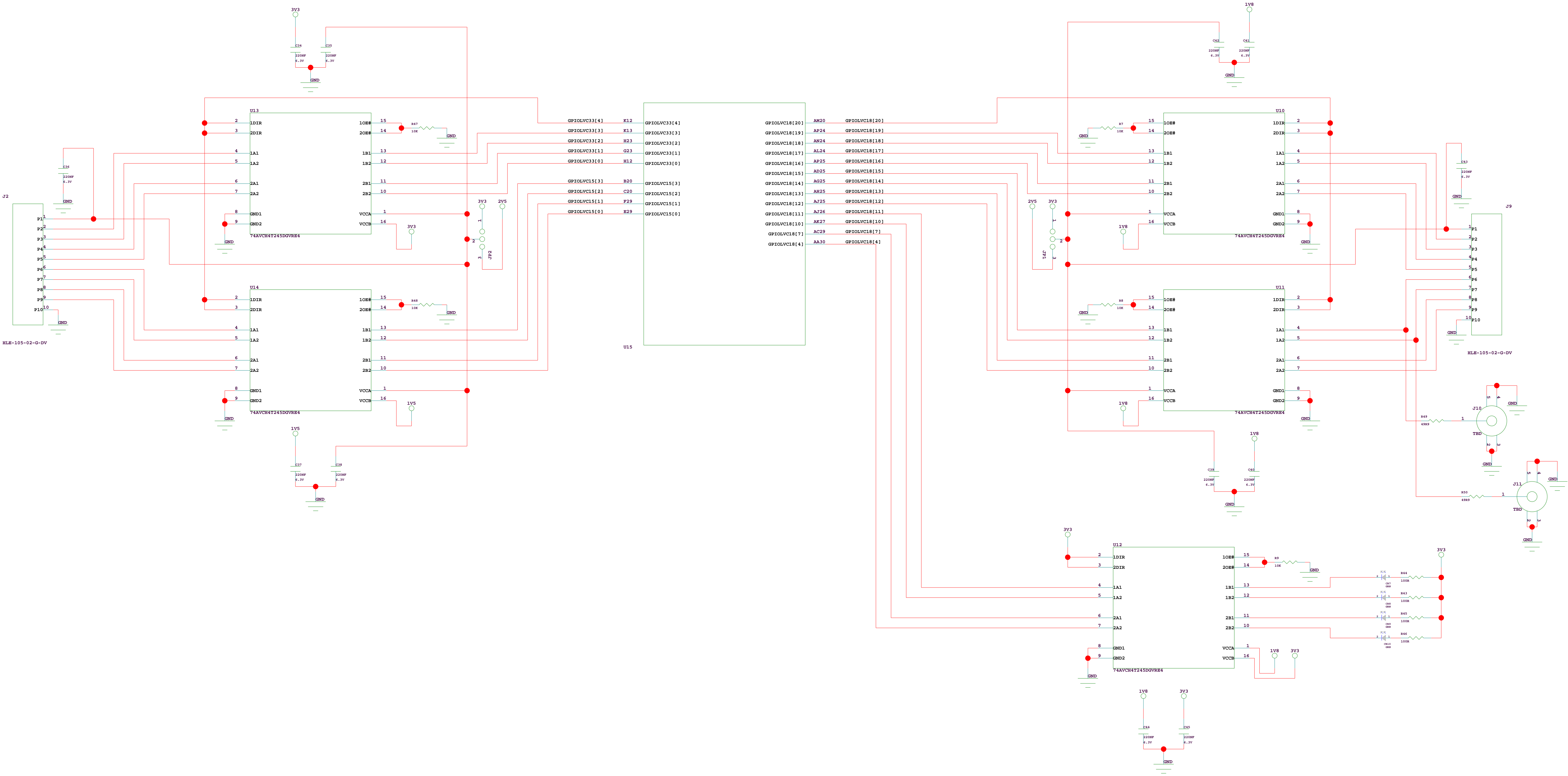




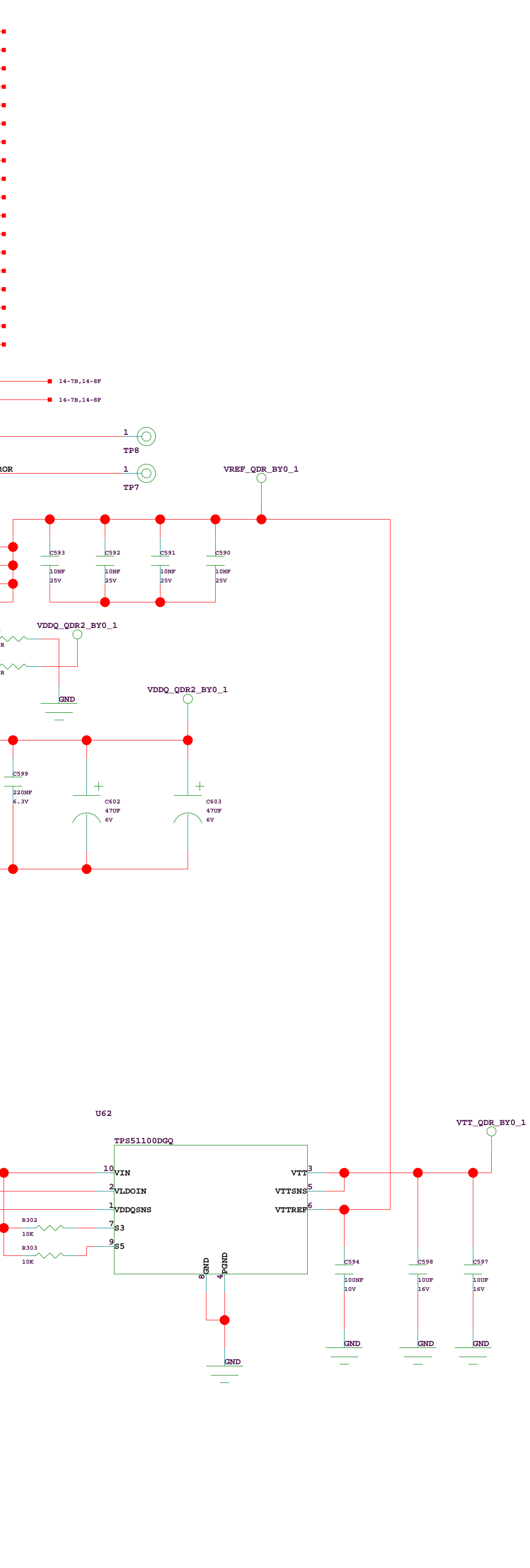
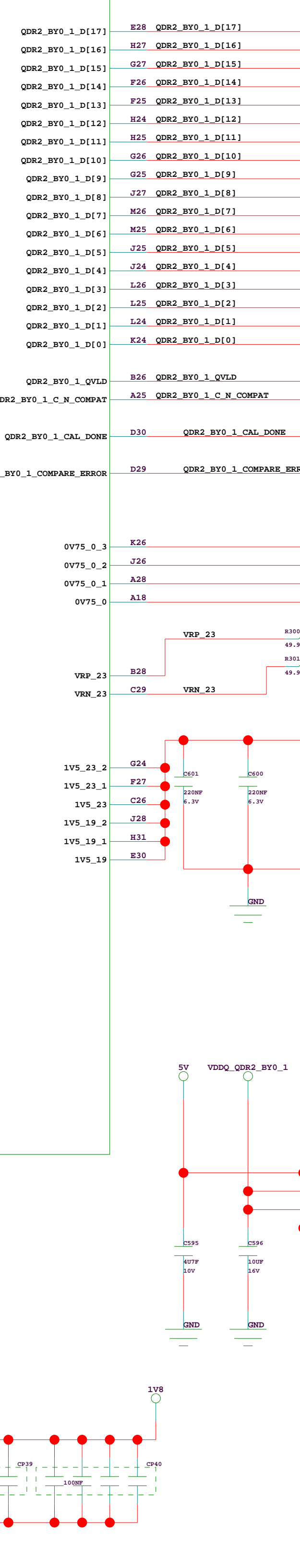
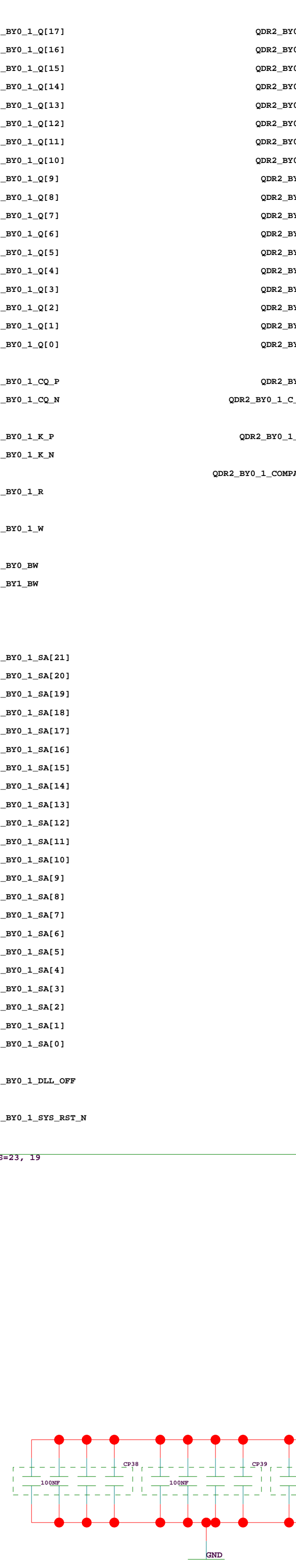
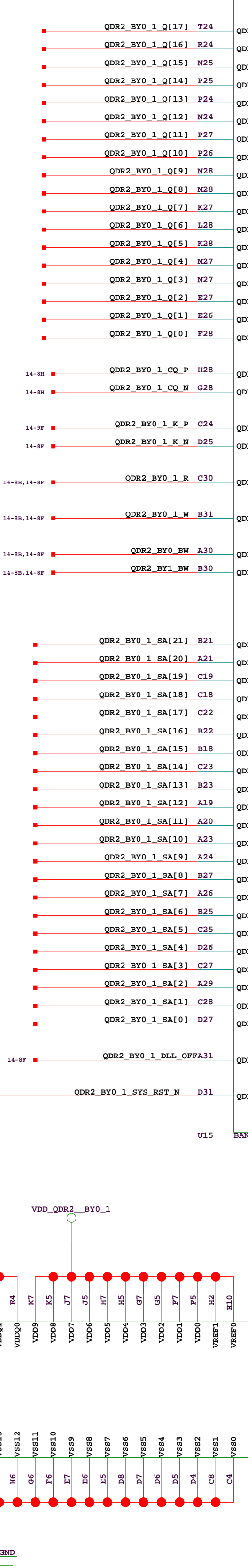
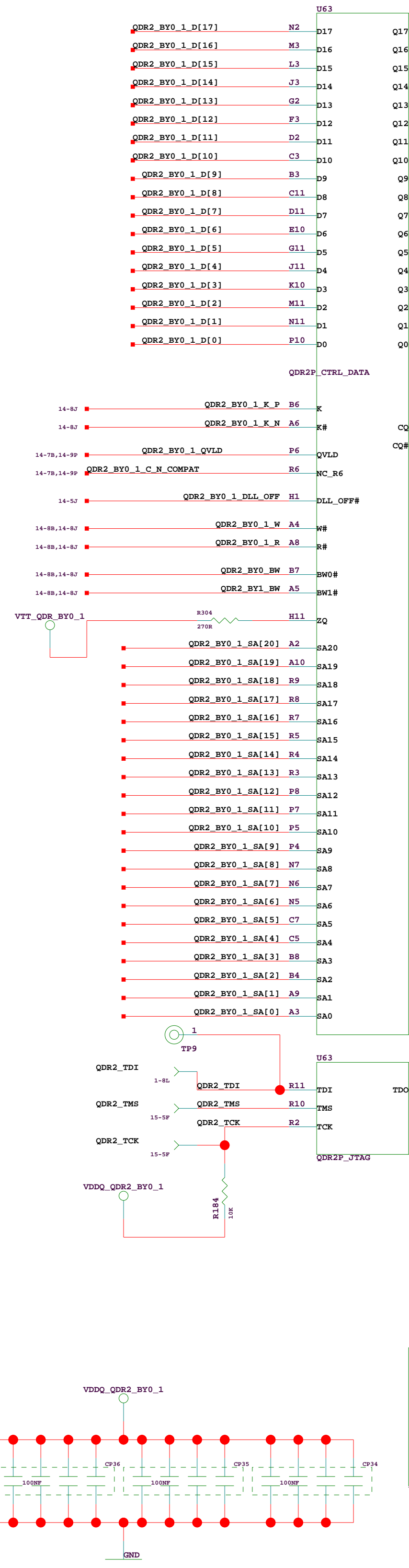
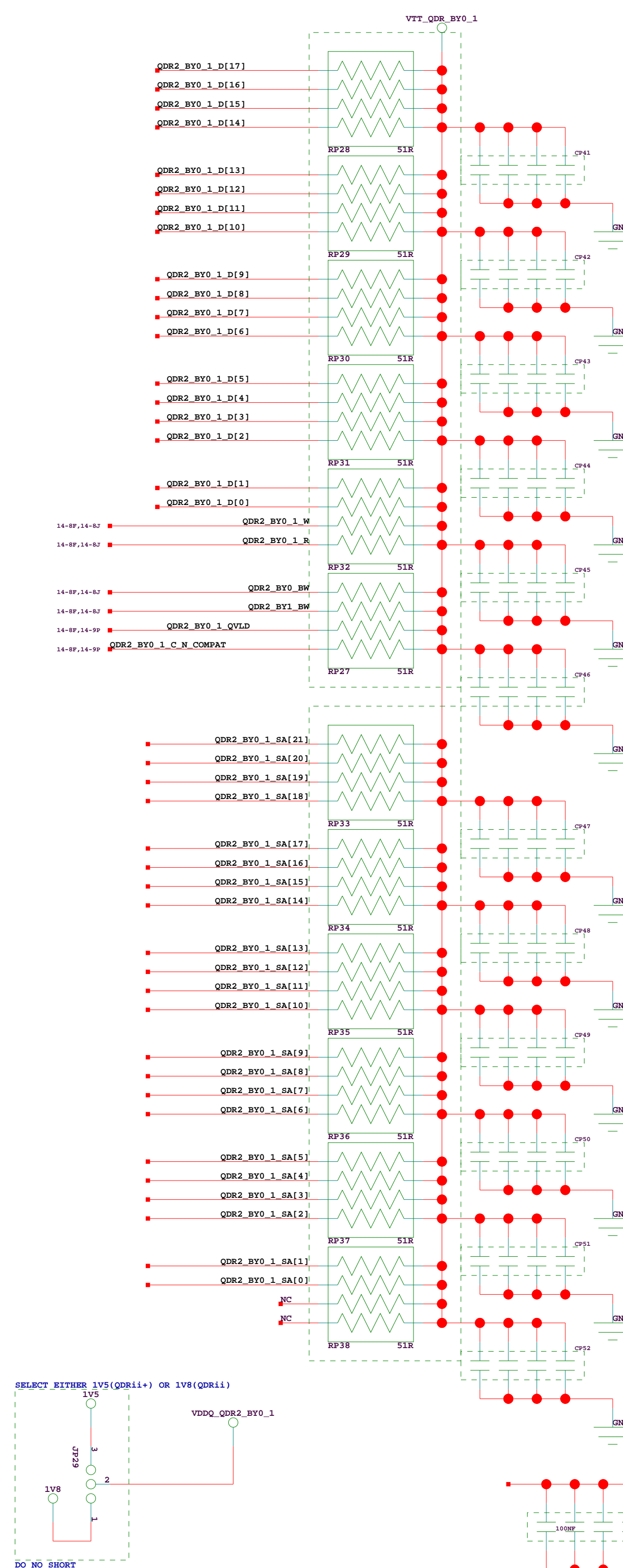




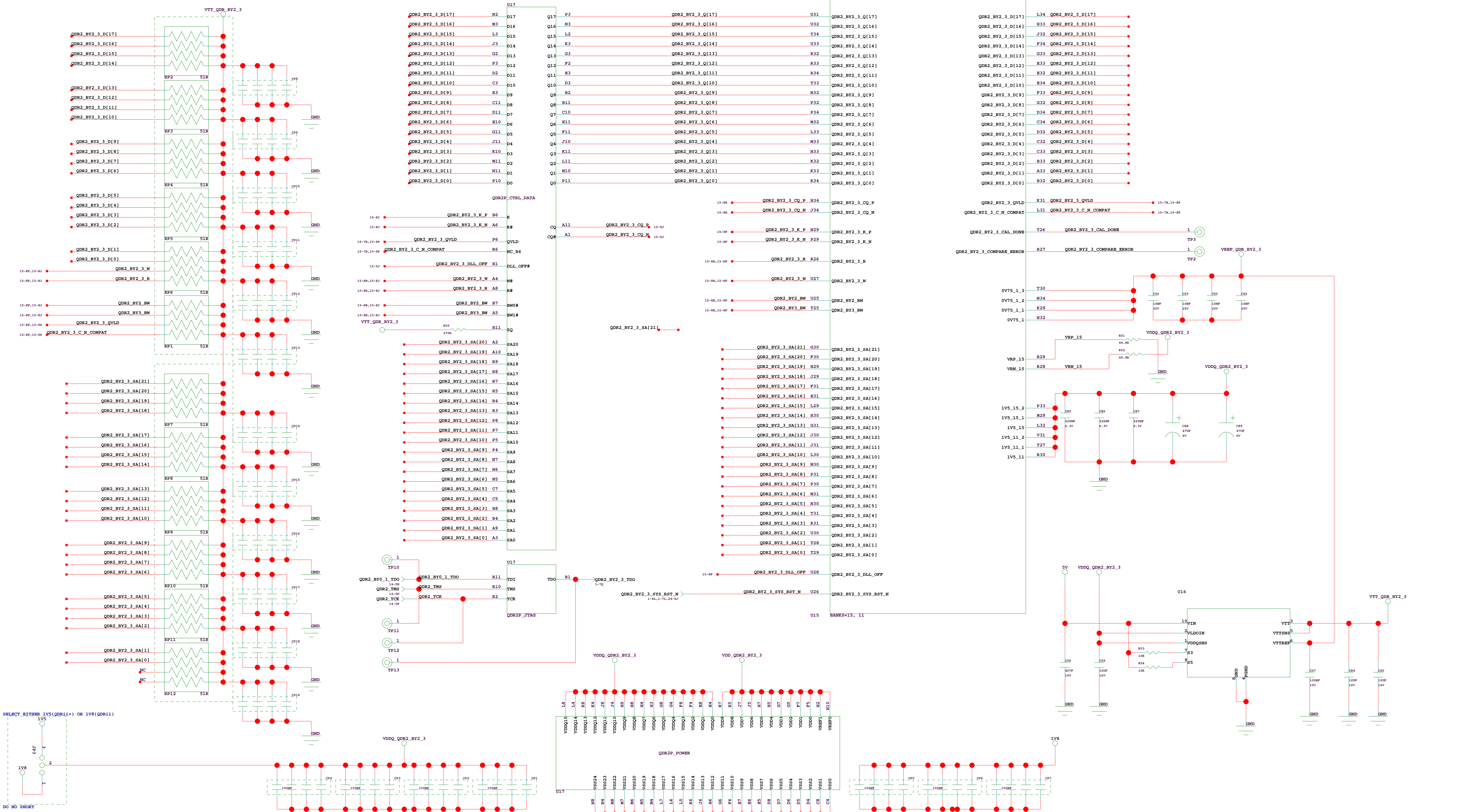
ROACH/iBOB2		ROACH_DIFF_GPIO	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY MESA, SCORED MEMEAT, CAPE TOWN		REF-ADM-XXX-SD-0001	A
http://casper.berkeley.edu/		DESCRIPTION	
		NONCONFIDENTIAL OPEN ARCHITECTURE SW	
10-5-2007.15:15		NAME: F KAPP	APPR:
PATH PATH		CHECKED: R BAUERHEISTER	SHEET 12 OF 2



ROACH/iBOE2		ROACH_GPIO_MISC	
COLLABORATORS:		DOC NO:	REVISION:
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
DESCRIPTION:		DESCRIPTION:	
NRAO, SOONERO		RECONFIGURABLE OPEN ARCHITECTURE HW	
Mentor, CAPE TOWN		DESIGNER:	APPR:
10-5-2007 15:15		F KAPP	
PATH: PATH		CHECKED:	SHEET
		R BAUERMISTOTER	13 OF 25

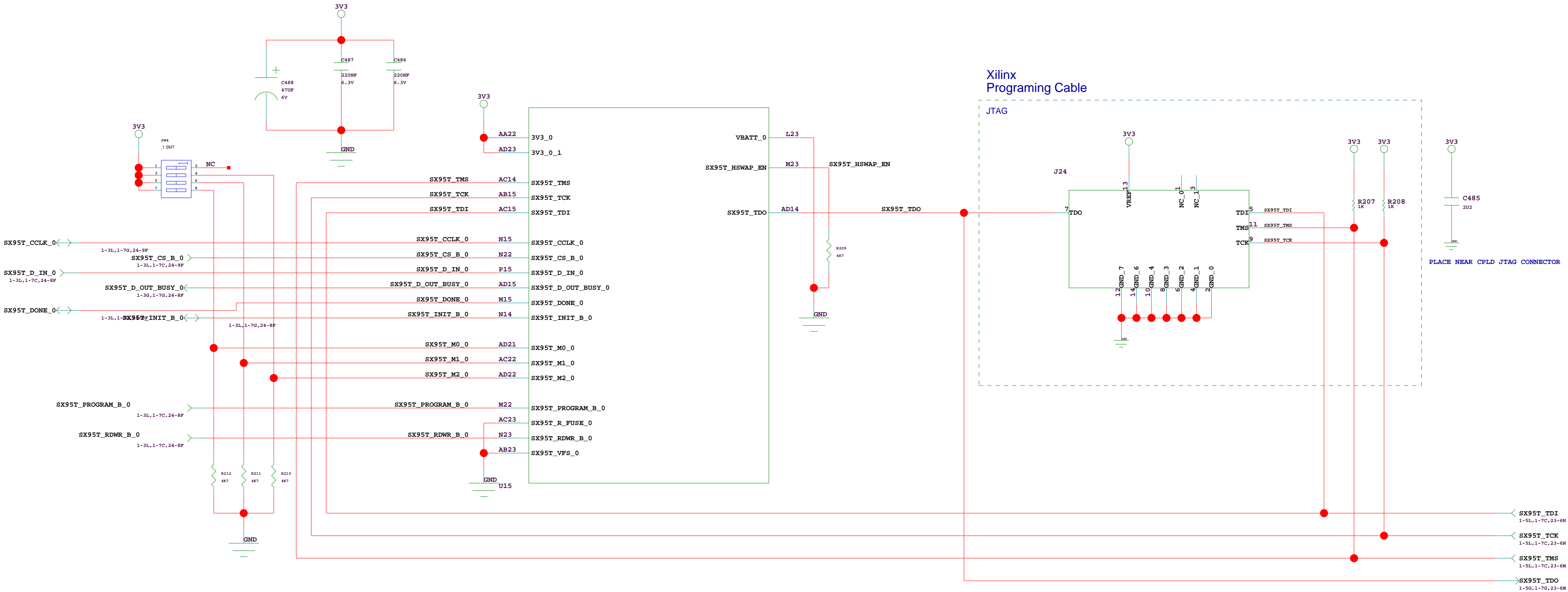




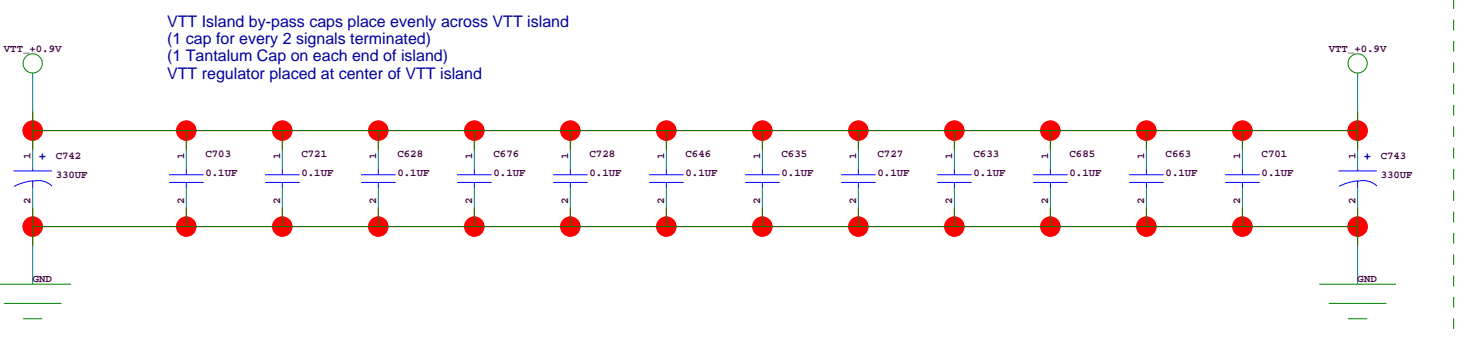
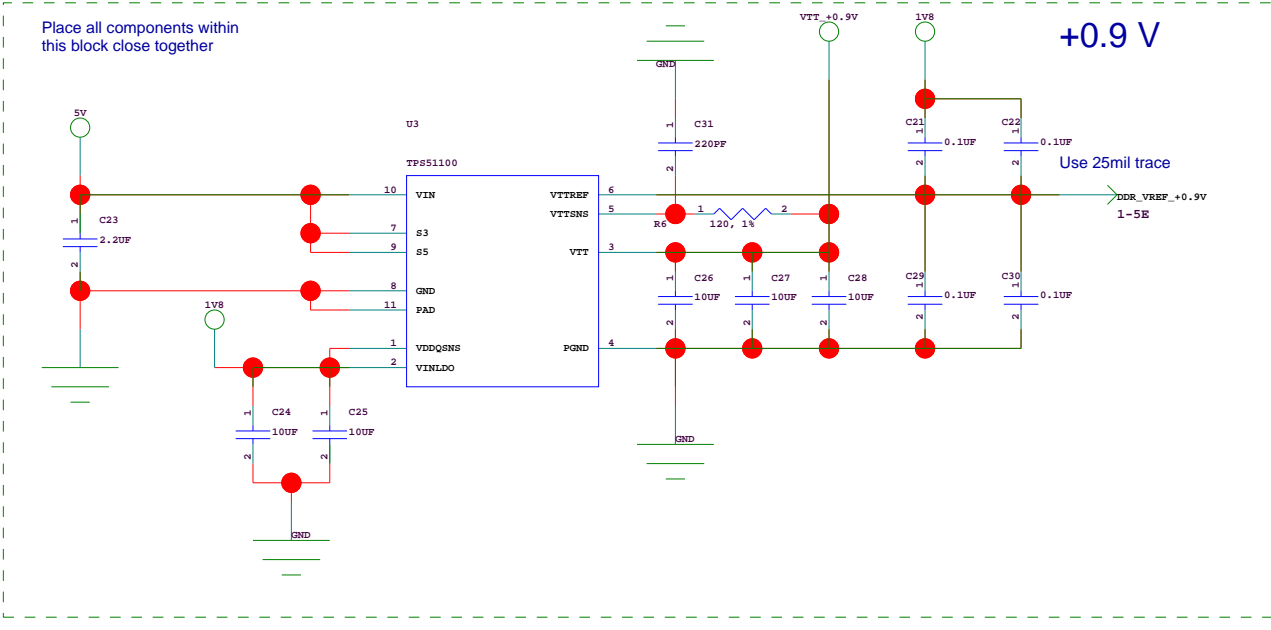
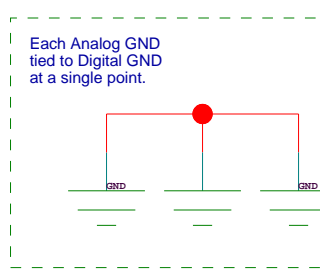
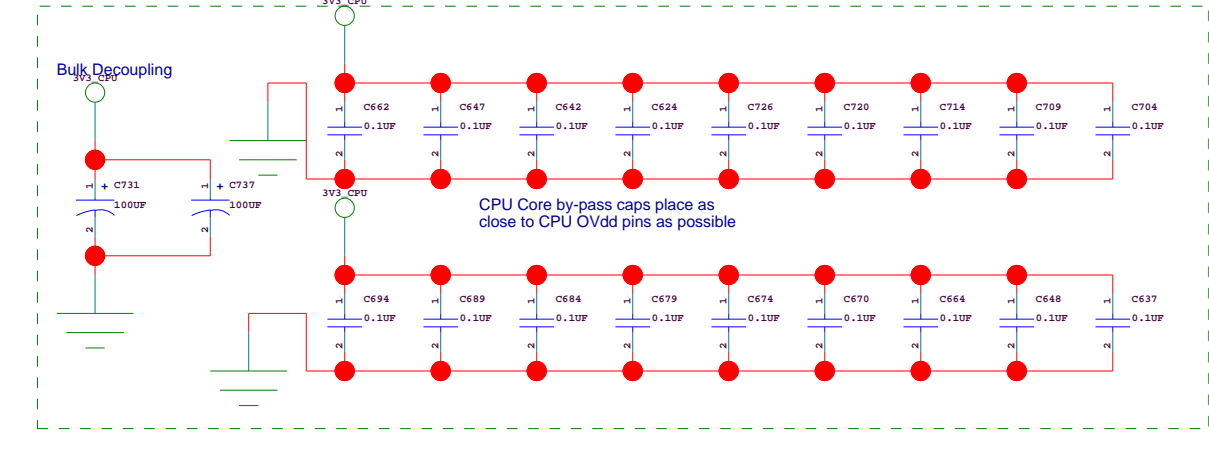
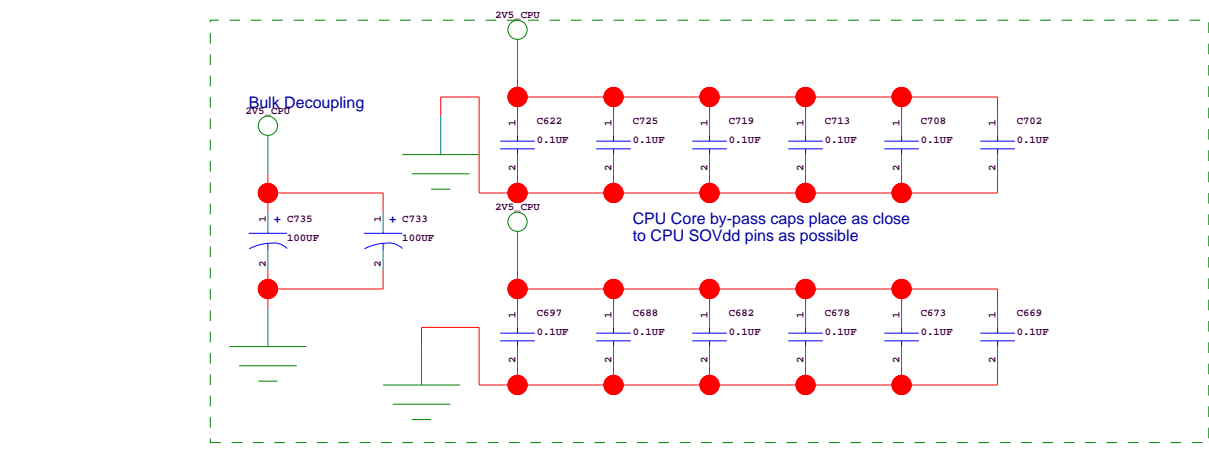
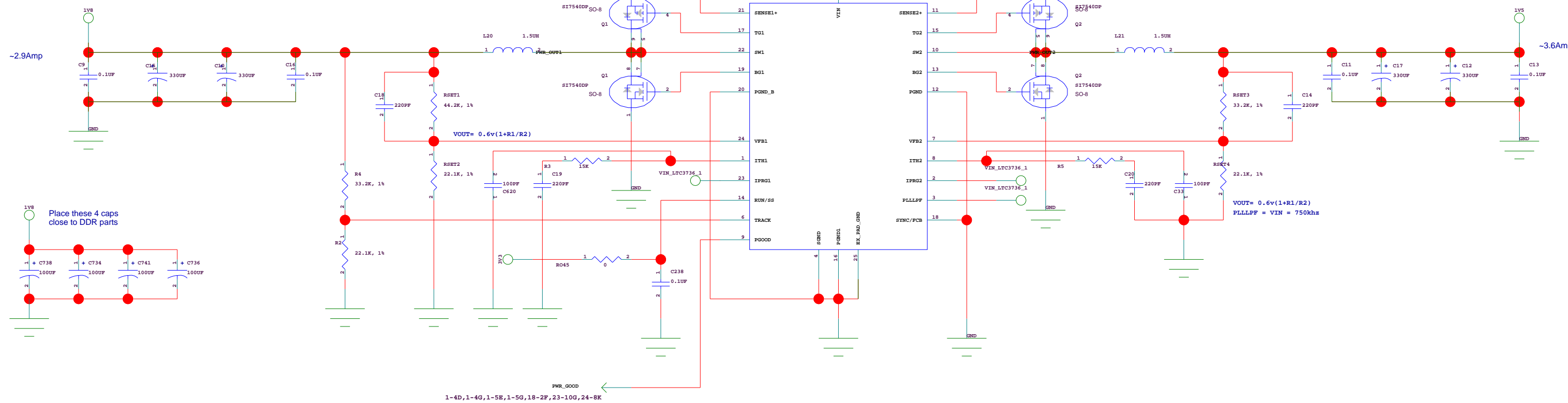
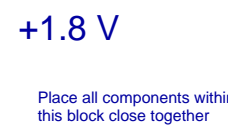
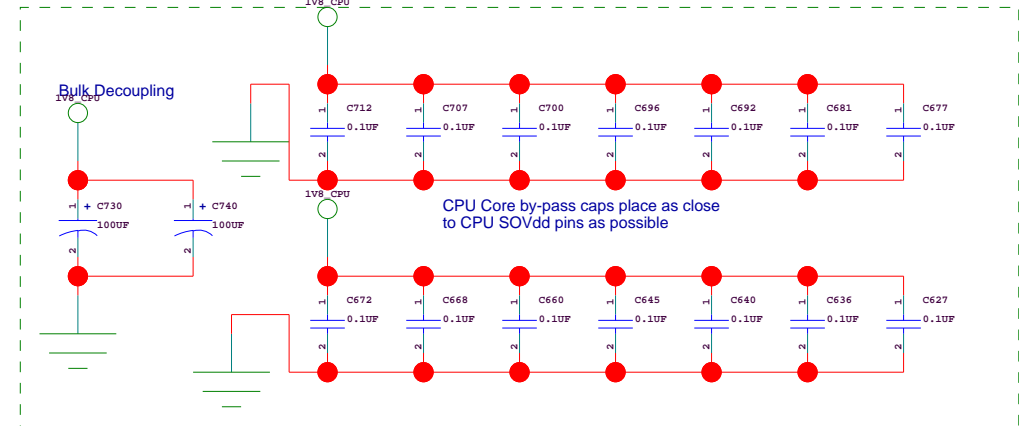
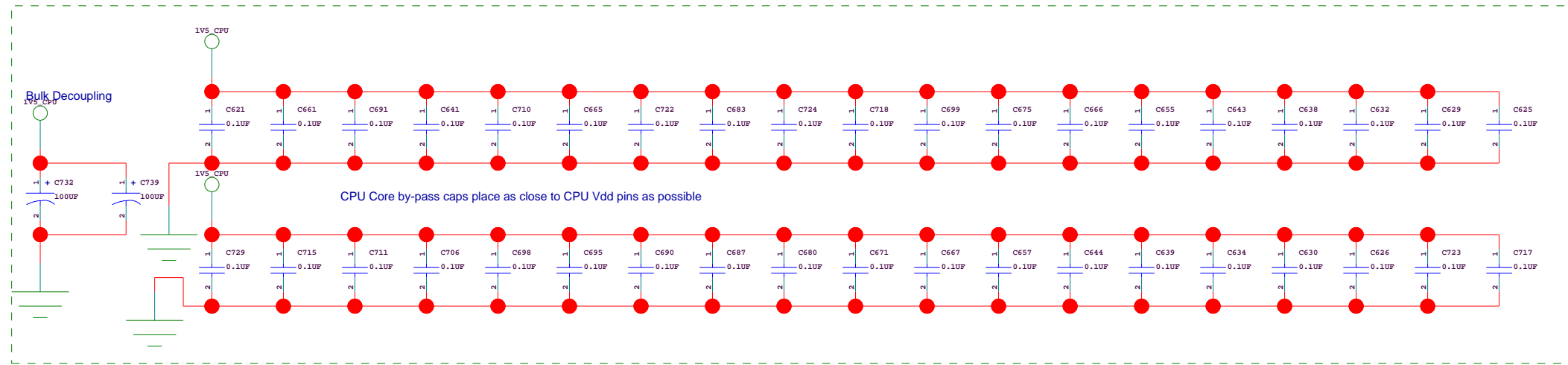
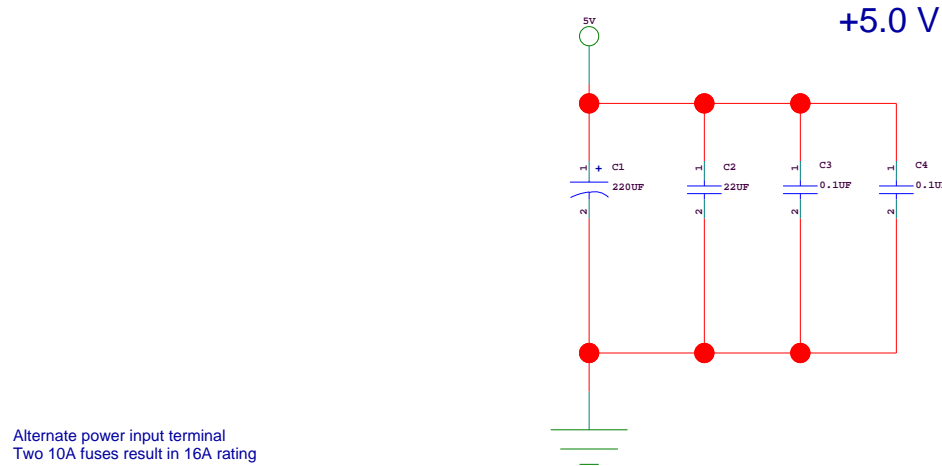
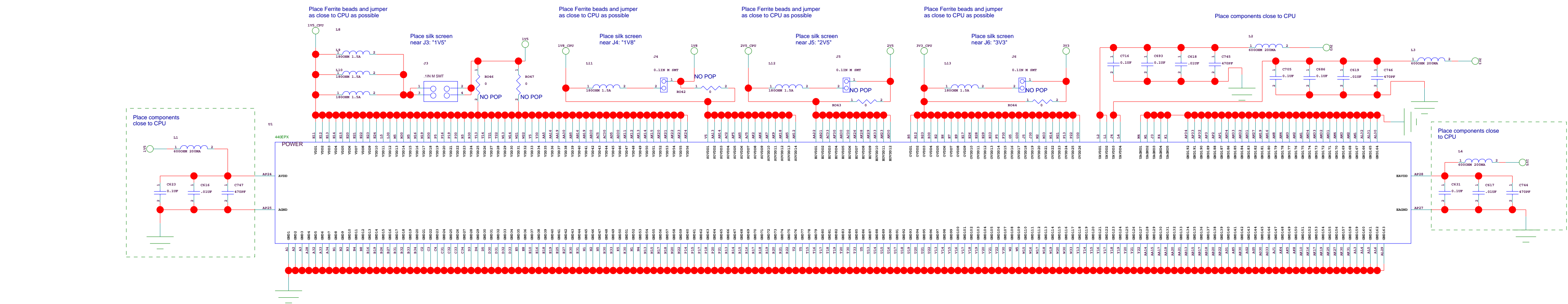


TBD

VALID CONFIGURATION MODES			
Configuration Mode	M[2:0]	Bus Width	CCLK Direction
Master Serial	000	1	Output
Master SPI	001	1	Output
Master BPI-Up	010	8, 16	Output
Master BPI-Down	011	8, 16	Output
Master SelectMAP	100	8, 16	Output
JTAG	101	1	Input (TCK)
Slave SelectMAP	110	8, 16, 32	Input
Slave Serial	111	1	Input

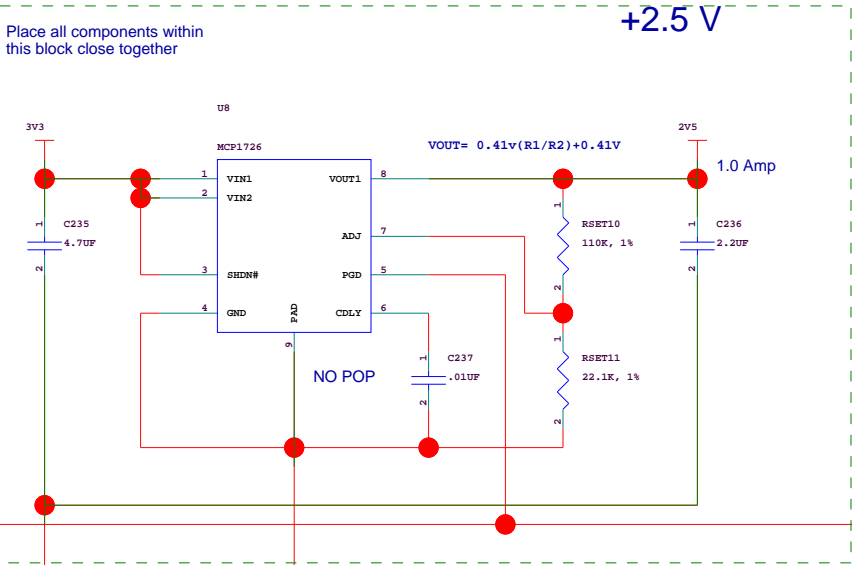
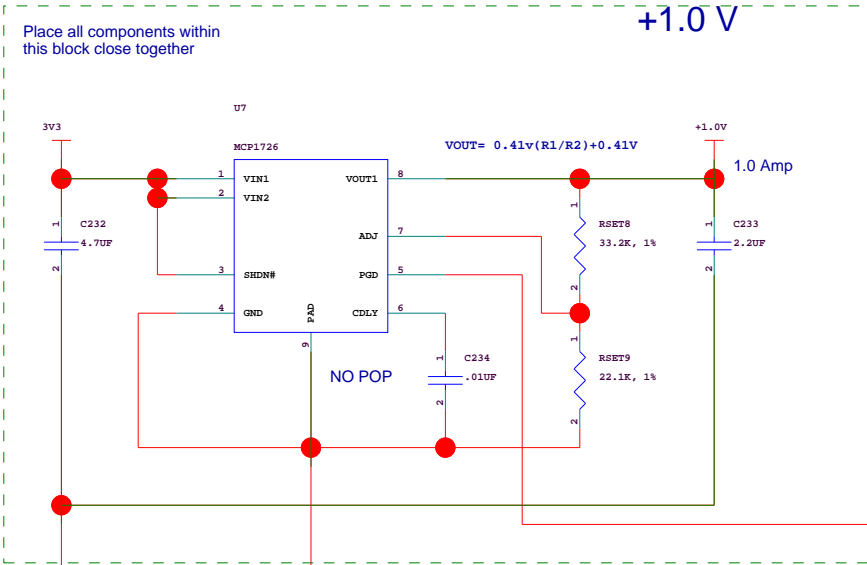
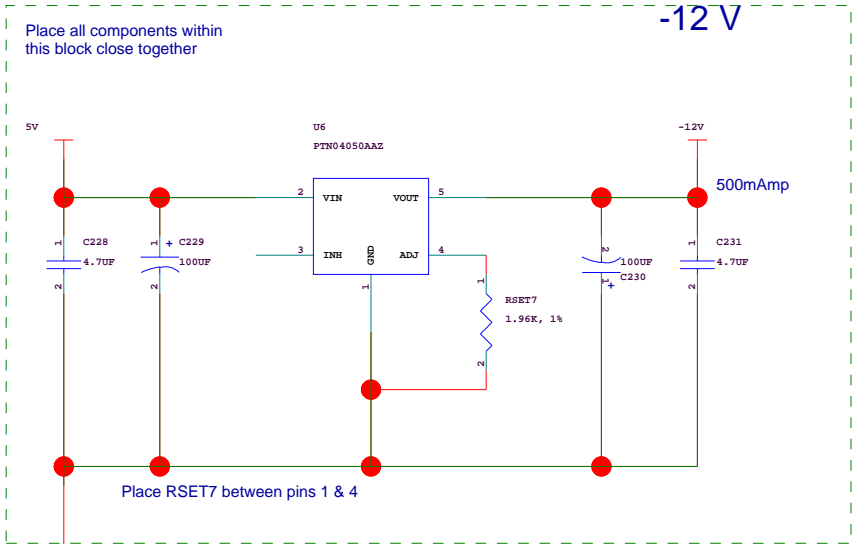
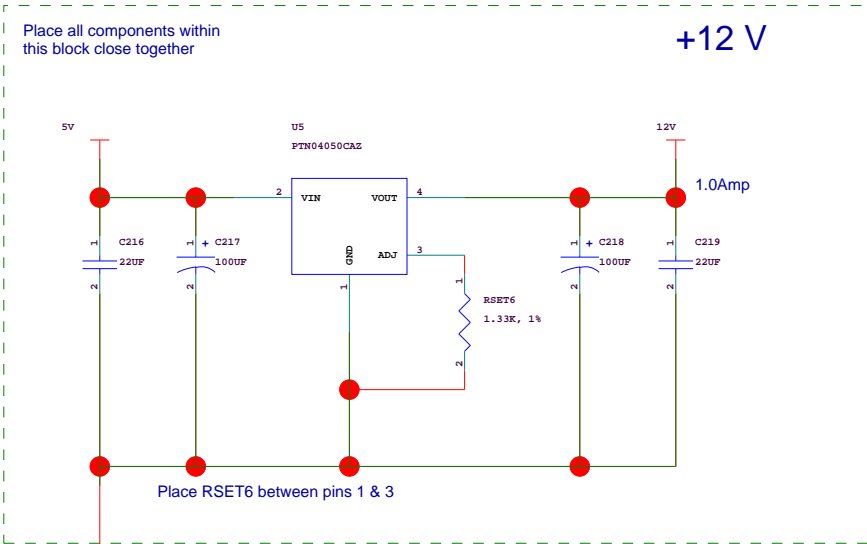
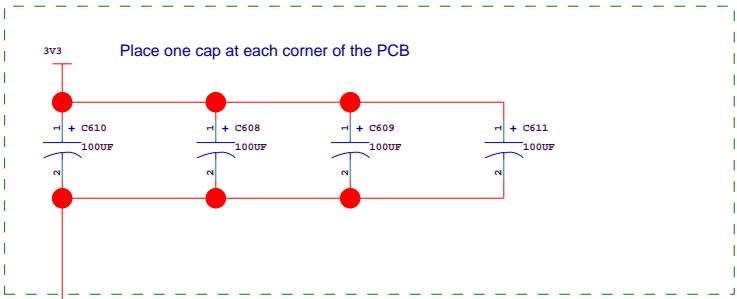
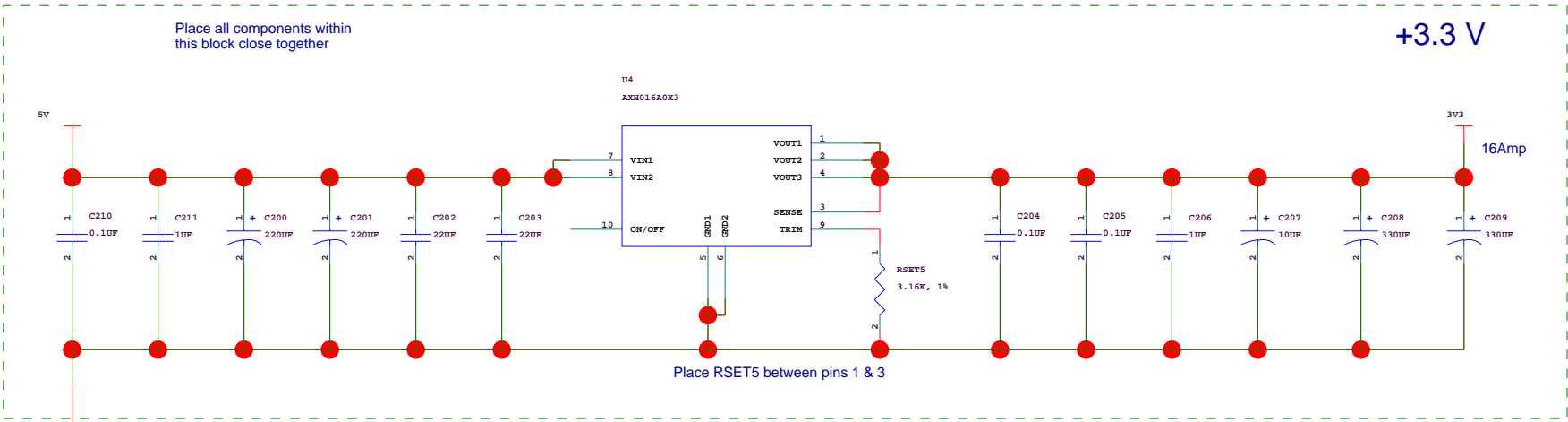


ROACH/iBOB2		ROACH_CONFIG	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN  <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	10-5-2007_15:15	DRAWN: F KAPP	APPR:
PATH	PATH	CHECKED: E BAUERMEISTER	SHEET 16 OF 25



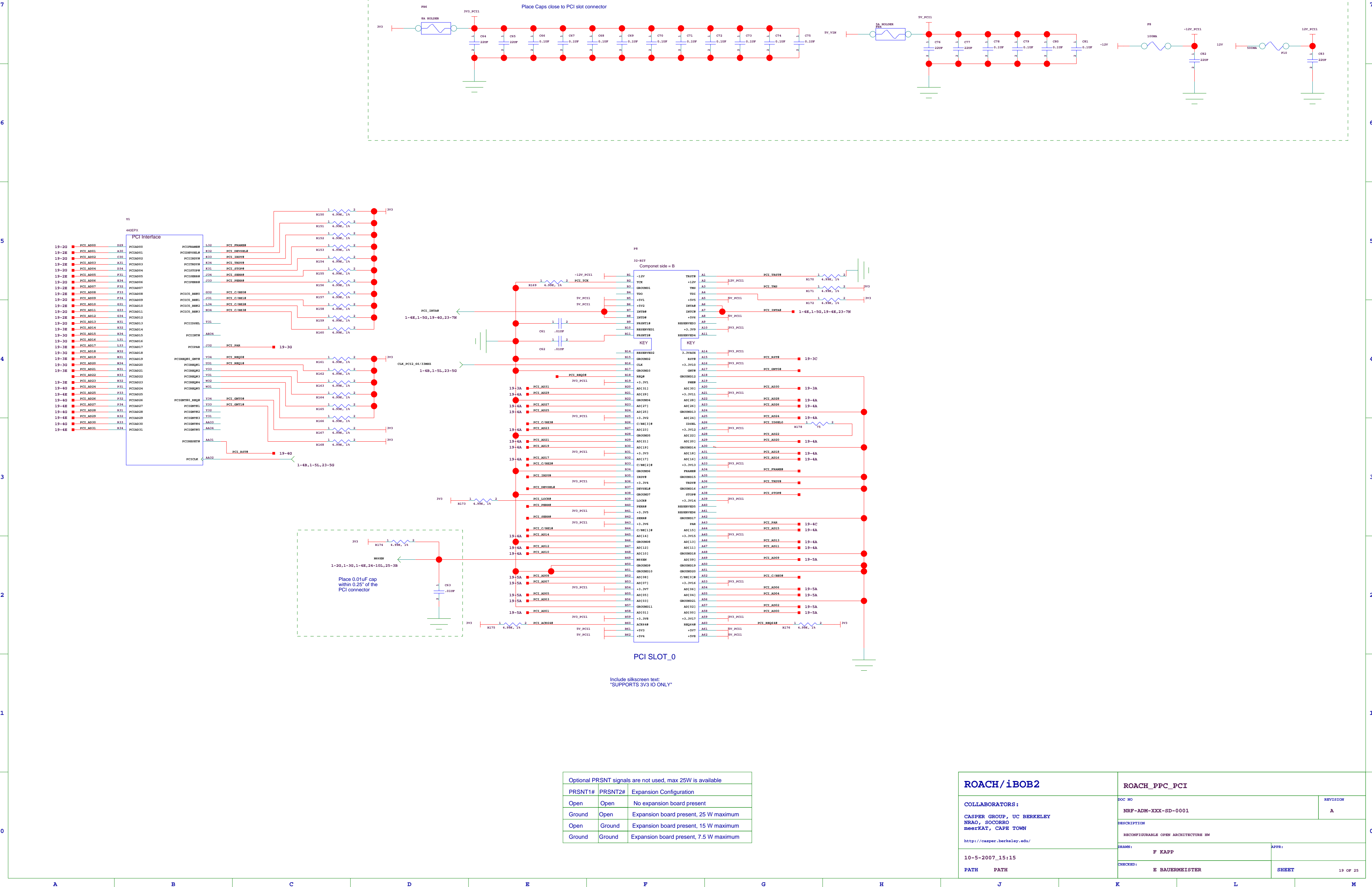
ROACH/iBOE2			ROACH_PPC_POWER_1	
COLLABORATORS:			DOC NO	REVISION
CASPER GROUP, UC BERKELEY NRAO, SOONERO BeeKAT, CAPE TOWN			NRF-ADM-XXX-SD-0001	A
DESCRIPTION			RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/			BRAND:	PPR:
10-5-2007_15:15			F KAPP	
PATH			CHECKED:	SHEET
			R BAUERMEISTER	





pin\_0000  
1-4D,1-4G,1-5E,1-5G,17-3F,23-10G,24-8K

ROACH/iBOB2		ROACH_PPC_POWER_2	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN <a href="http://casper.berkeley.edu/">http://casper.berkeley.edu/</a>	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	DRAWN: 10-5-2007_15:15	F KAPP	APPR:
PATH	PATH	CHECKED: E BAUERMEISTER	SHEET 18 OF 25

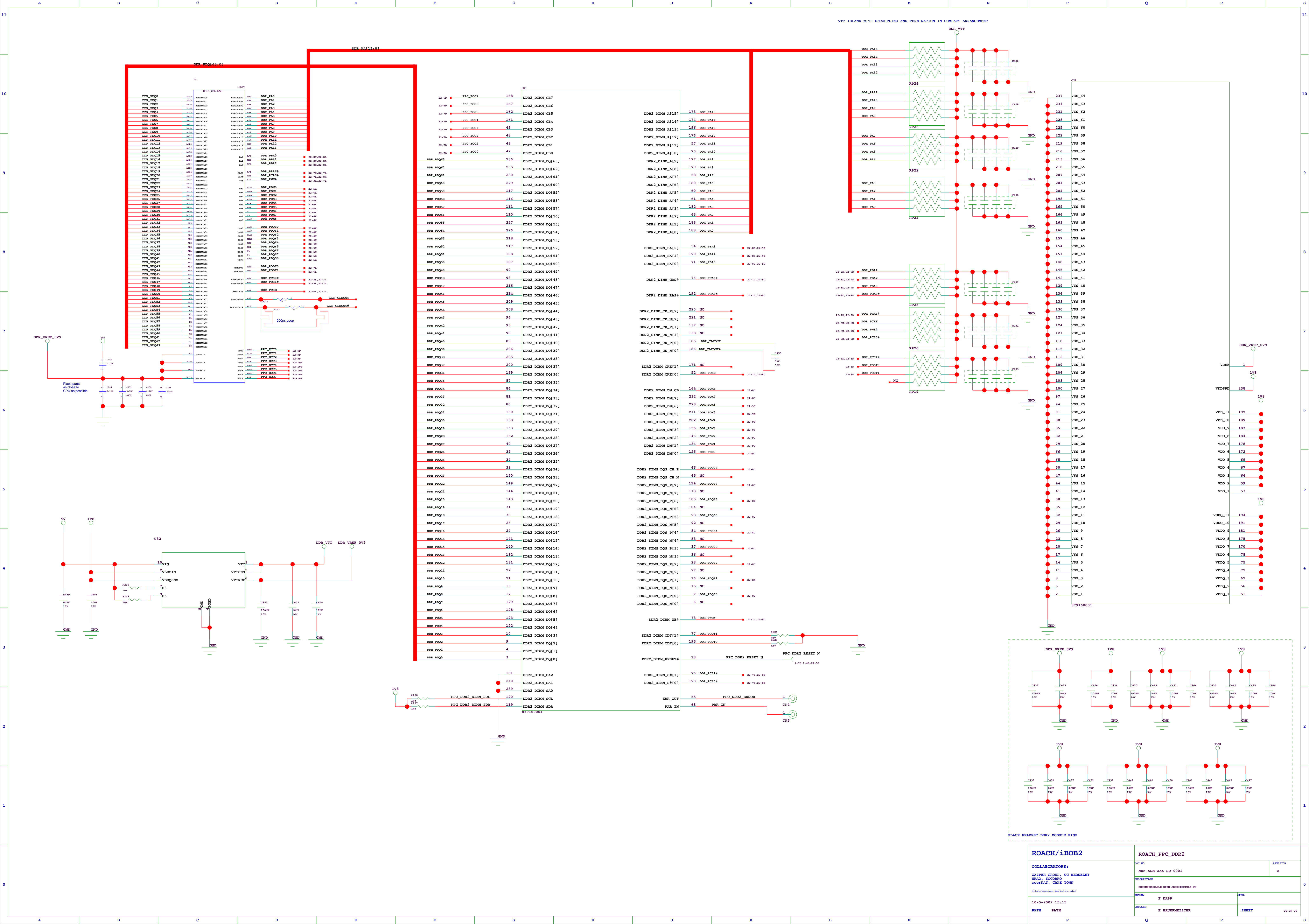




ROACH/iBOB2		ROACH_PPC_ETH1	
COLLABORATORS:		DOC NO	REVISION
CAPSER GROUP, UC BERKELEY NRAD, SOCOORO MOUNTAIN, CAPE TOWN		NRP-ADM-KXX-GD-0001	A
		DESCRIPTION	
		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		ISSUED:	APPRO:
10-5-2007_15:15		F KAPP	
PATH	PATH	CHECKED:	SHEET
		K BAUMHEISTER	20 OF 2





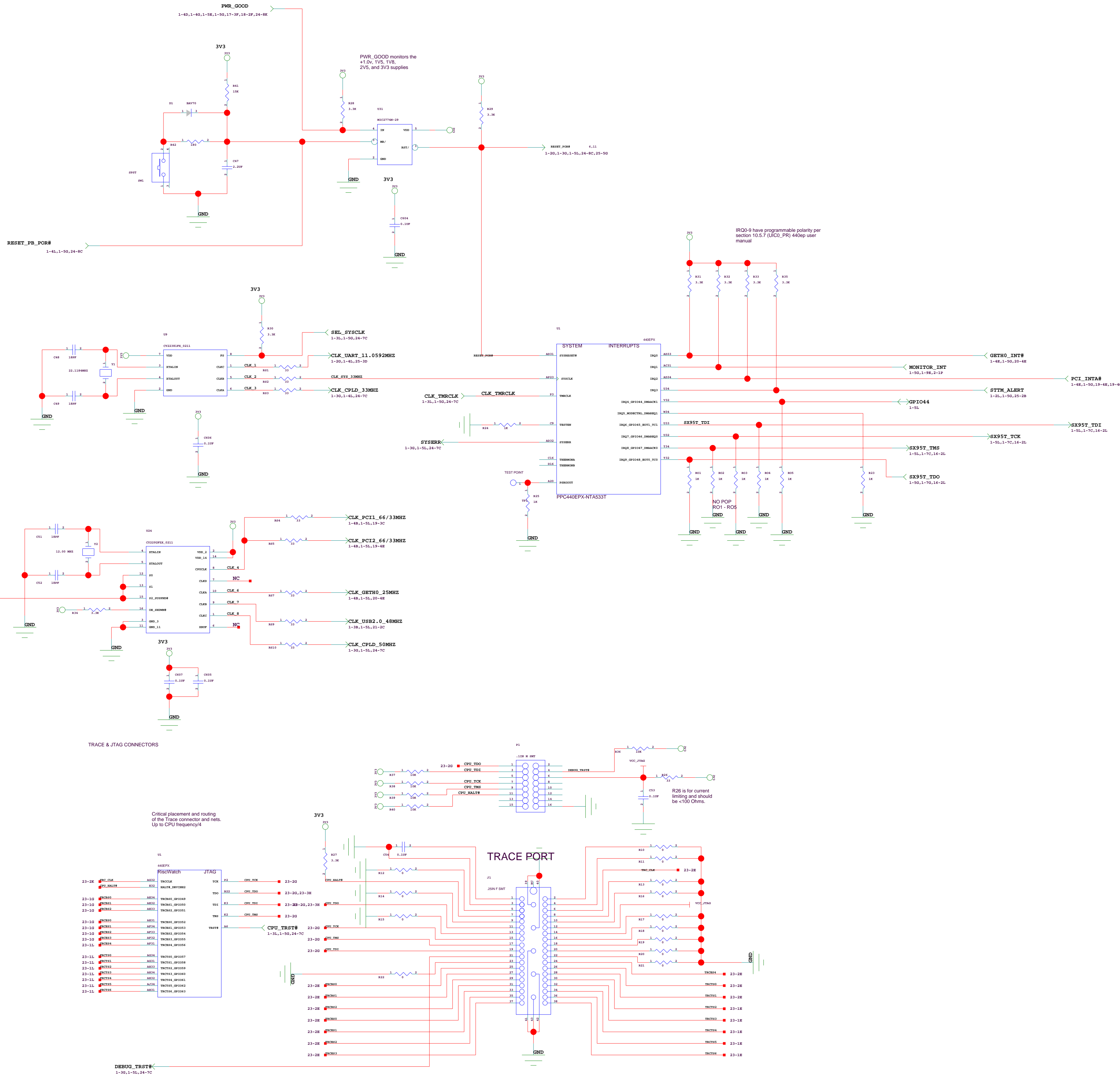


Critical Placement and Route  
Clock Rules:

Clock Rules:  
CLK\_UART\_11.0592MHz = as short as possible  
CLK\_SYS\_33MHz = as short as possible  
CLK\_CPLD\_33MHz = CLK\_SYS\_33MHz

Critical Placement and Route  
Clock Rules:

Clock Rules:  
CLK\_PC13\_66/33MHz = as short as possible  
CLK\_PC12\_66/33MHz = CLK\_PC13\_66/33MHz  
CLK\_PC11\_66/33MHz = CLK\_PC12\_66/33MHz + 2.5°  
CLK\_GETH0\_25MHz = as short as possible  
CLK\_GETH1\_25MHz = CLK\_GETH0\_25MHz  
CLK\_CPLD\_50MHz = as short as possible  
CLK\_USB2\_0\_48MHz = as short as possible  
CLK\_USB2\_0\_12MHz = as short as possible



ROACH/iBOE2		ROACH_PPC_TST_CLK_IO	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
HEAD, SOCOMBO		DESCRIPTION	
HEEKAT, CAPE TOWN		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		DESIGN:	APP:
		F KAPP	
10-5-2007 15:15		CHECKED:	
		E BAUERMEISTER	SHEET
			23 OF 2





