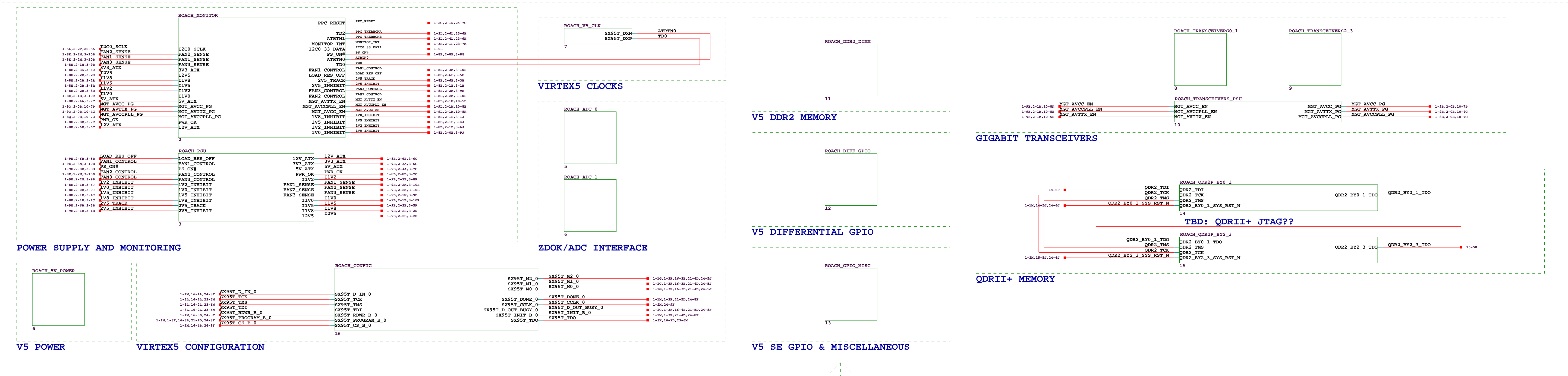


VIRTEX5



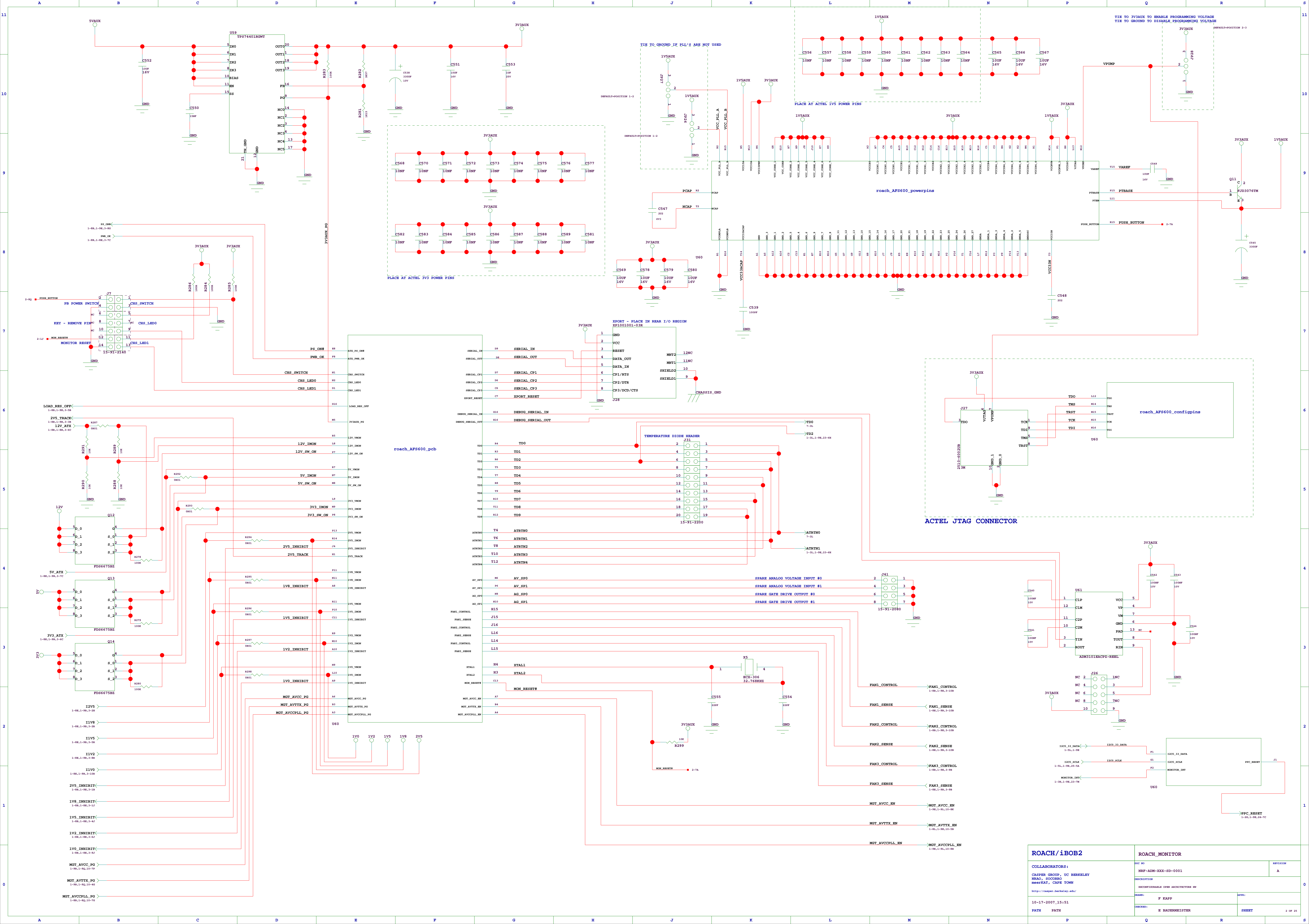
PPC

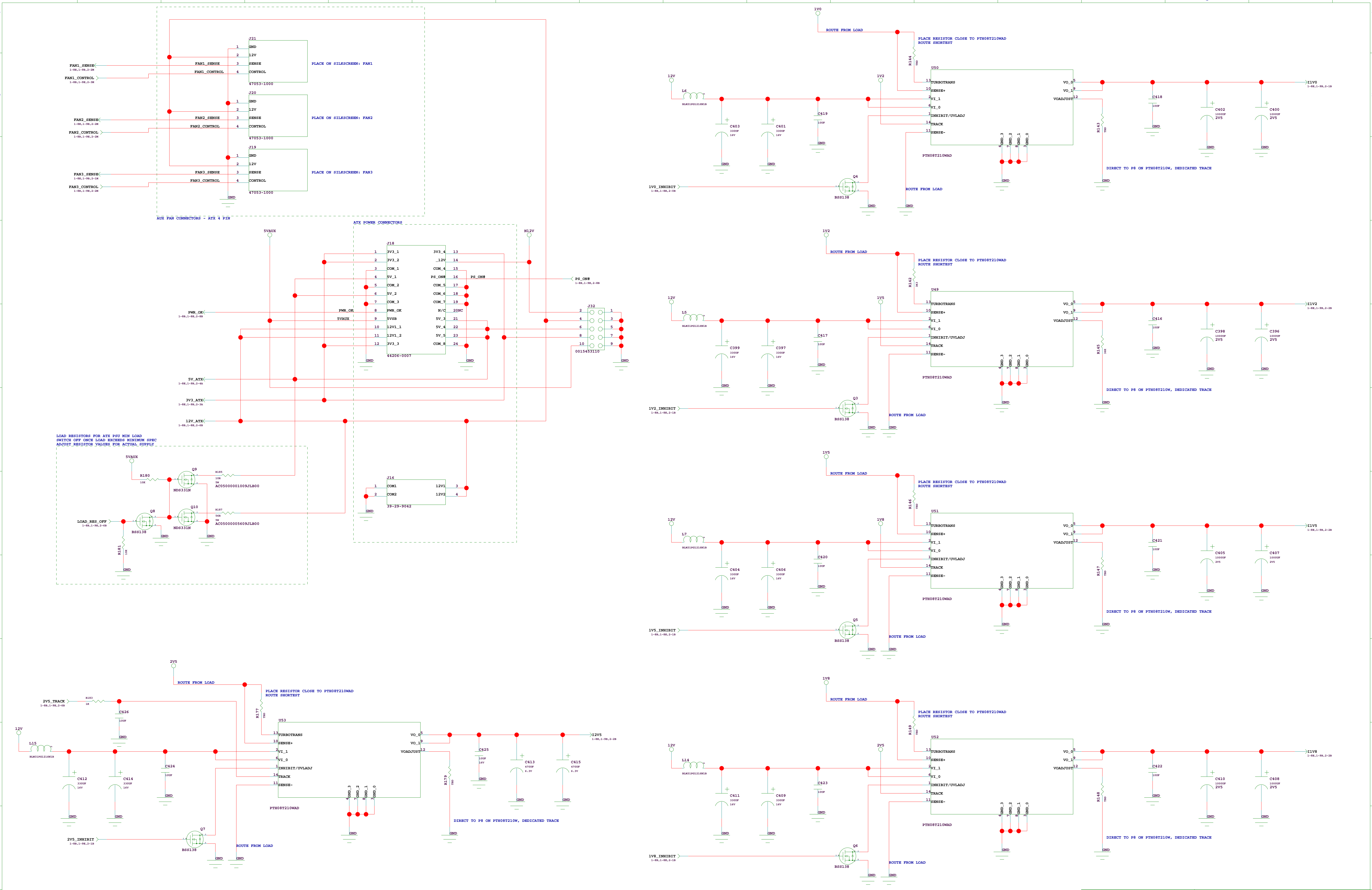


CONTRIBUTORS

ETIENNE BAUERMEISTER
HENRY CHON
STEVE DORAND
FRANCOIS KAPP
ALAN LANGMAN
GEORGE PECK
MIKE REYNELL
HAYDEN SO
DAN WERTHIMER

ROACH/iBOB2		ROACH_TOP	
COLLABORATORS:		SOC NO	REVISION
CAPSER GROUP, UC BERKELEY WRAG, SCORCHIO meerkat, CAPE TOWN		NRF-ADM-XXX-SD-0001	A
		DESCRIPTION	
		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://capers.berkeley.edu/		NAME:	APP:
10-17-2007_15:51		F KAPP	
PATH PATH		WORKED:	SHEET
		E BAUMEISTER	1 OF 2

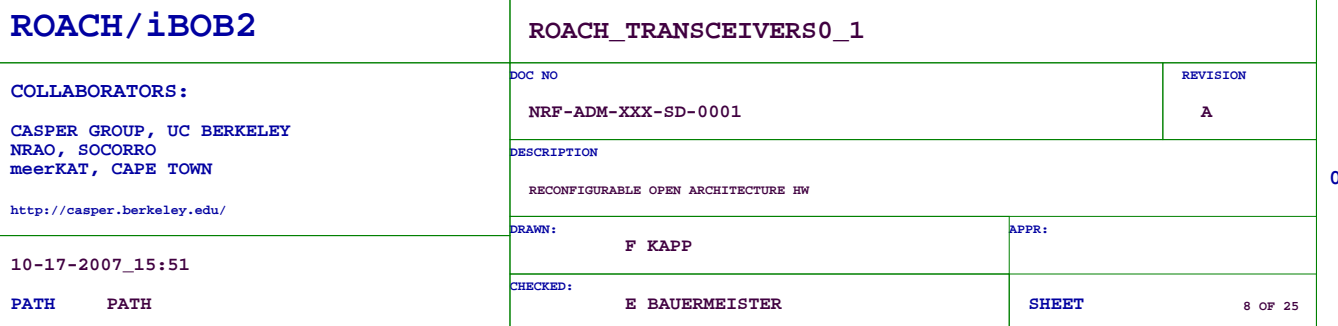


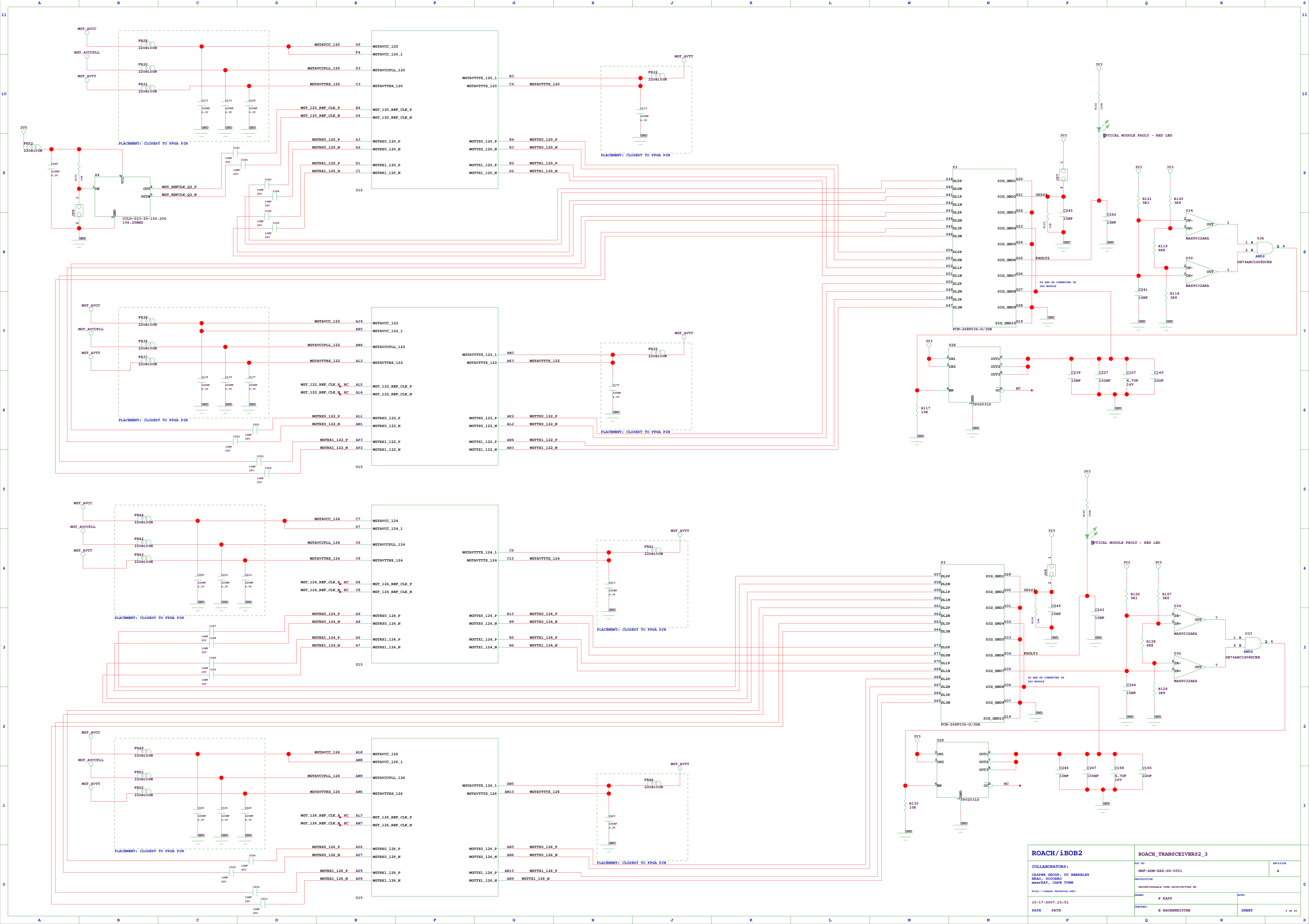


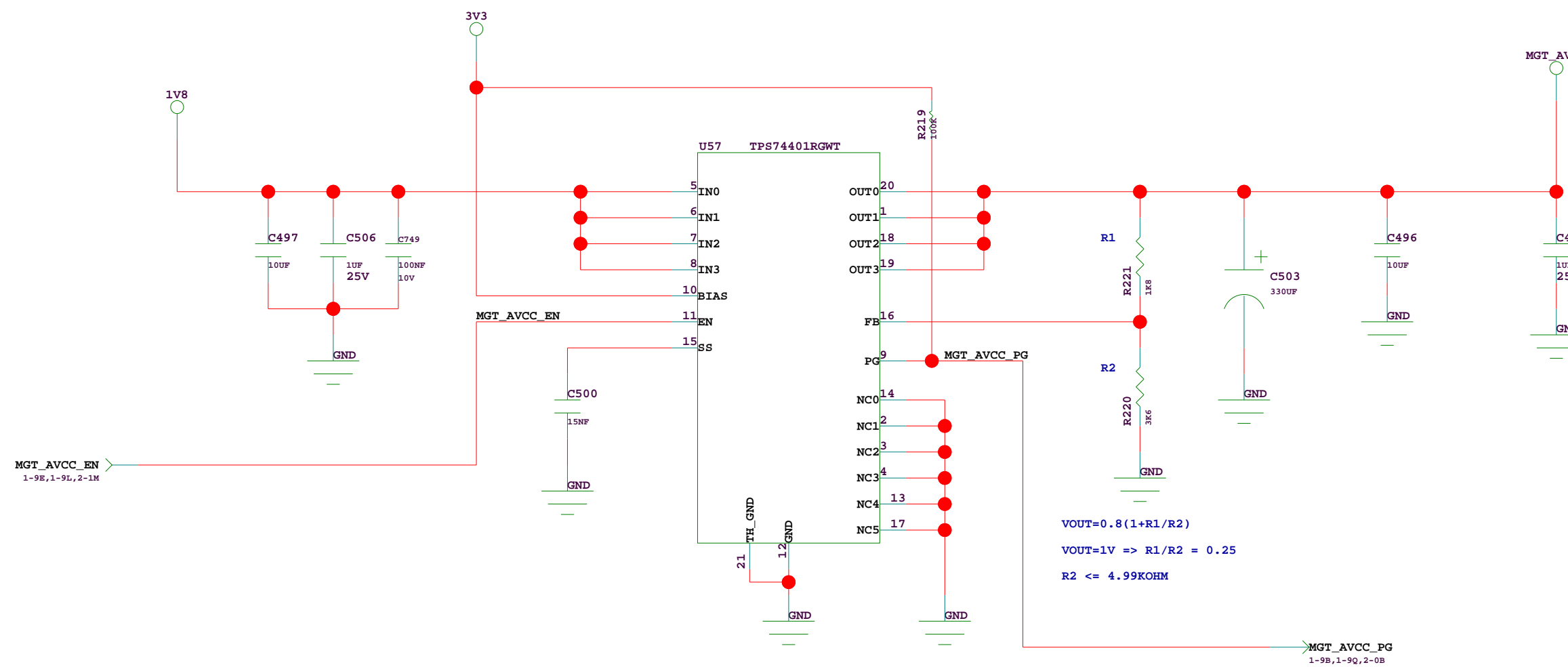
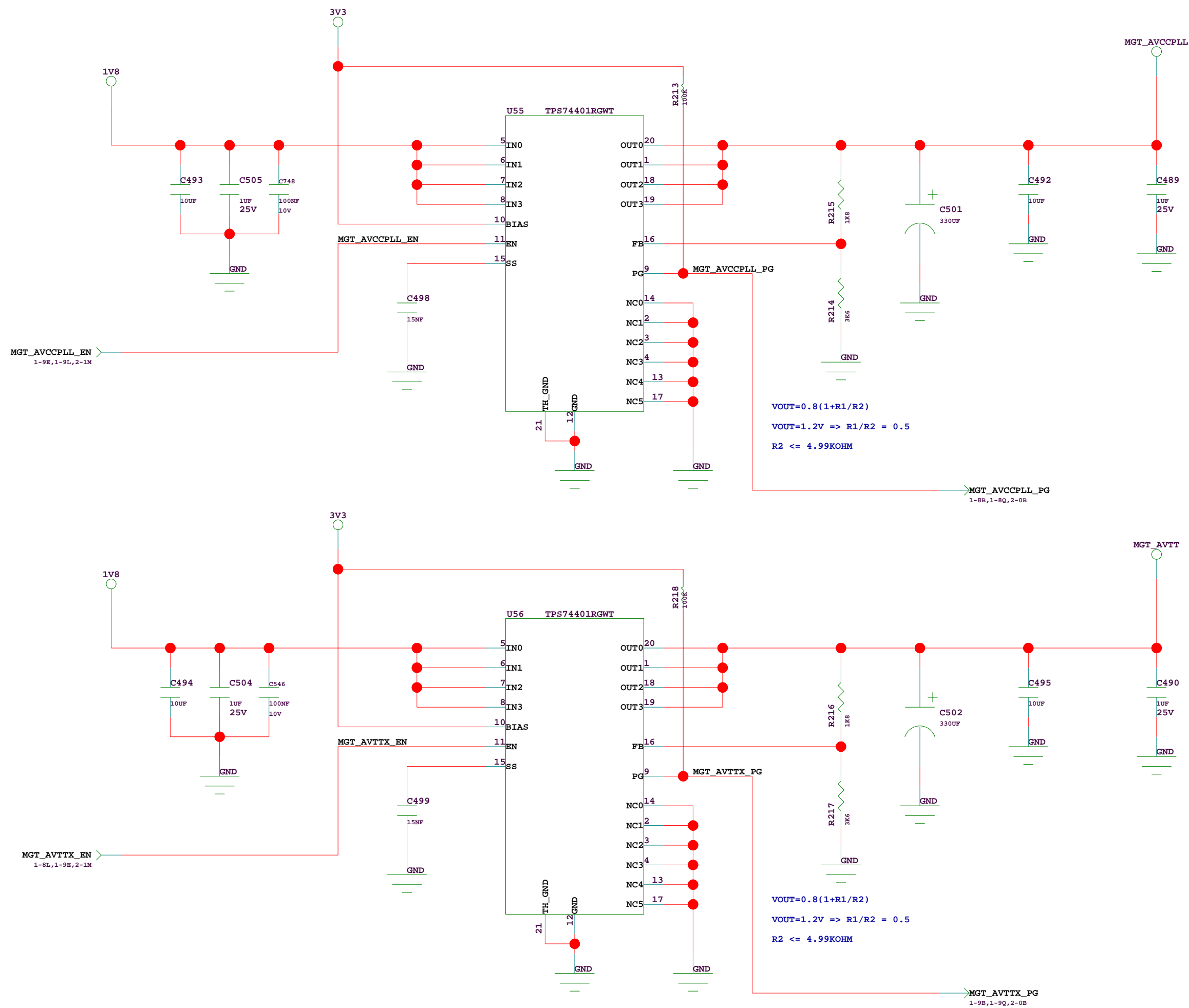
ADJUSTMENT AND T2 RESISTOR VALUES TBD
SOURCE VOLTAGES TO BE SELECTED

ROACH/iBOB2		ROACH_PSU	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-BD-0001	A
NRAO, SOONERO		DESCRIPTION	
BEEFAT, CAPE TOWN		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		DRAWN:	APPD:
10-17-2007_15:51		F KAPP	
PATH	PATH	CHECKED:	SHEET
		R BAUERNISTE	3 OF 25

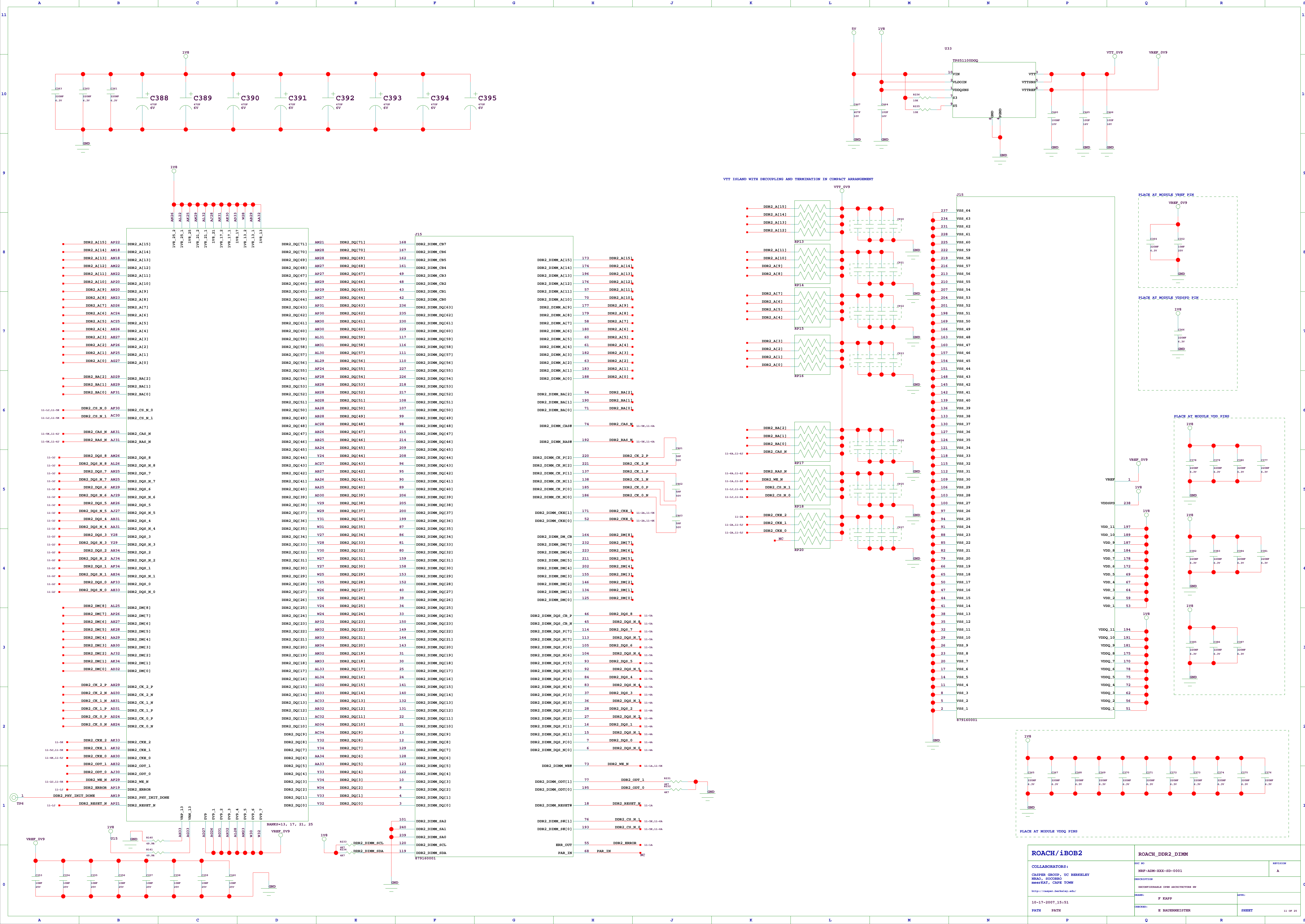


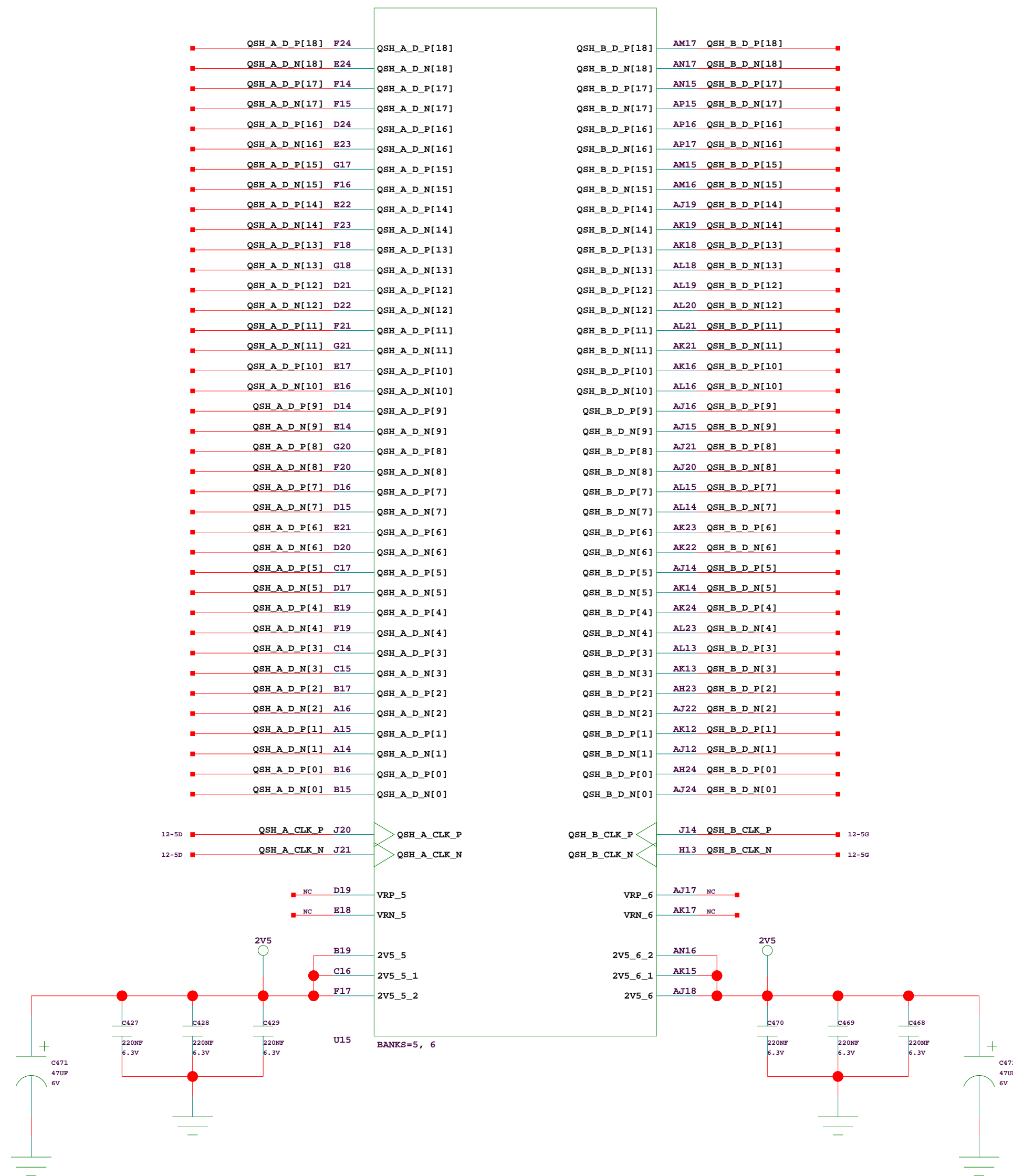




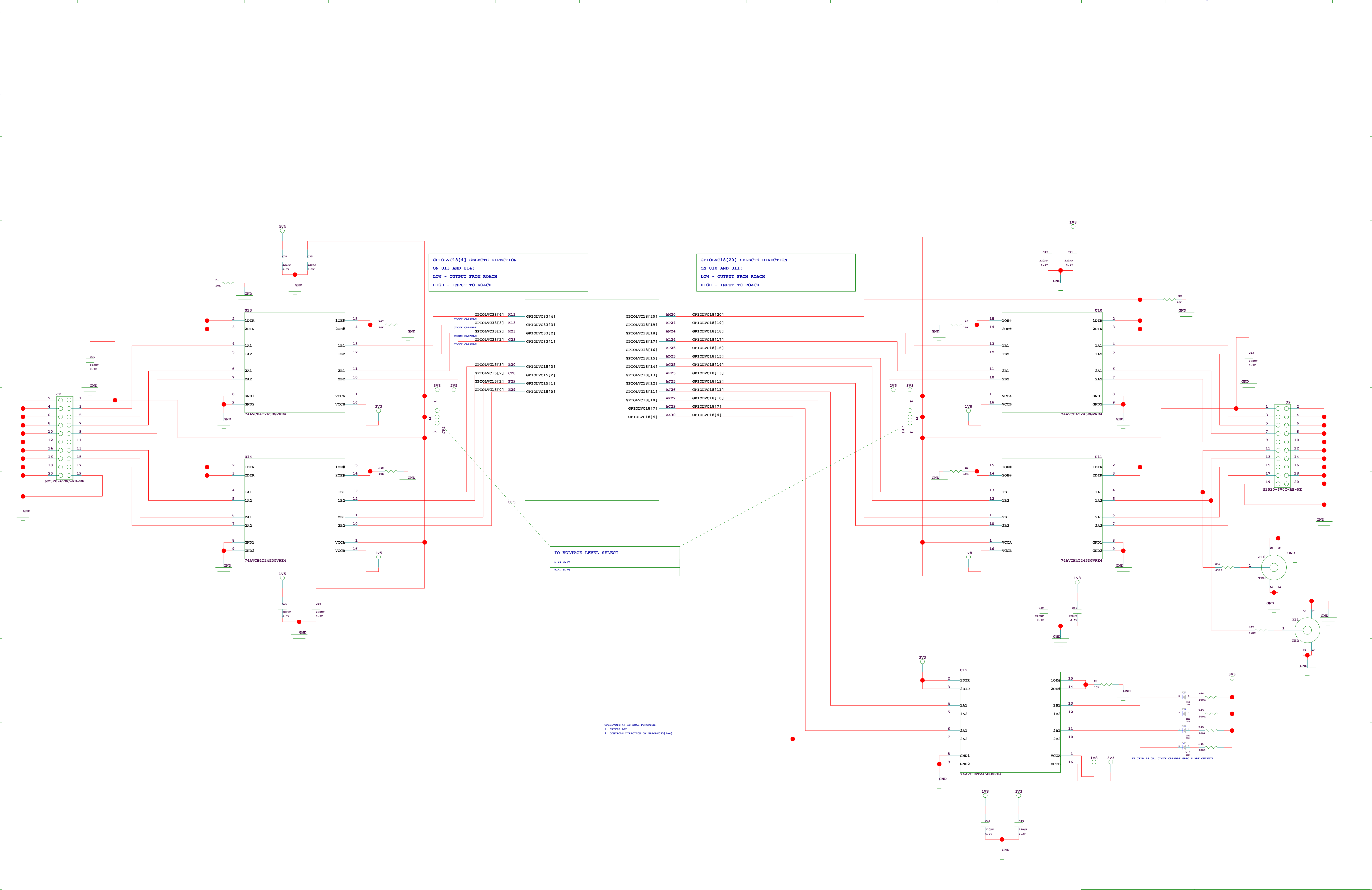


ROACH/iBOE2		ROACH_TRANSCEIVERS_PSU	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY NRF, FORTORD moeKAT, CAPE TOWN http://casper.berkeley.edu/		NRF-ADM-XXX-SD-0001 DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW	A
10-17-2007_15:51		DRAWN: F KAPP	APPR:
PATH	PATH	CHECKED: K BAUERMEISTER	SHEET 10 OF 2

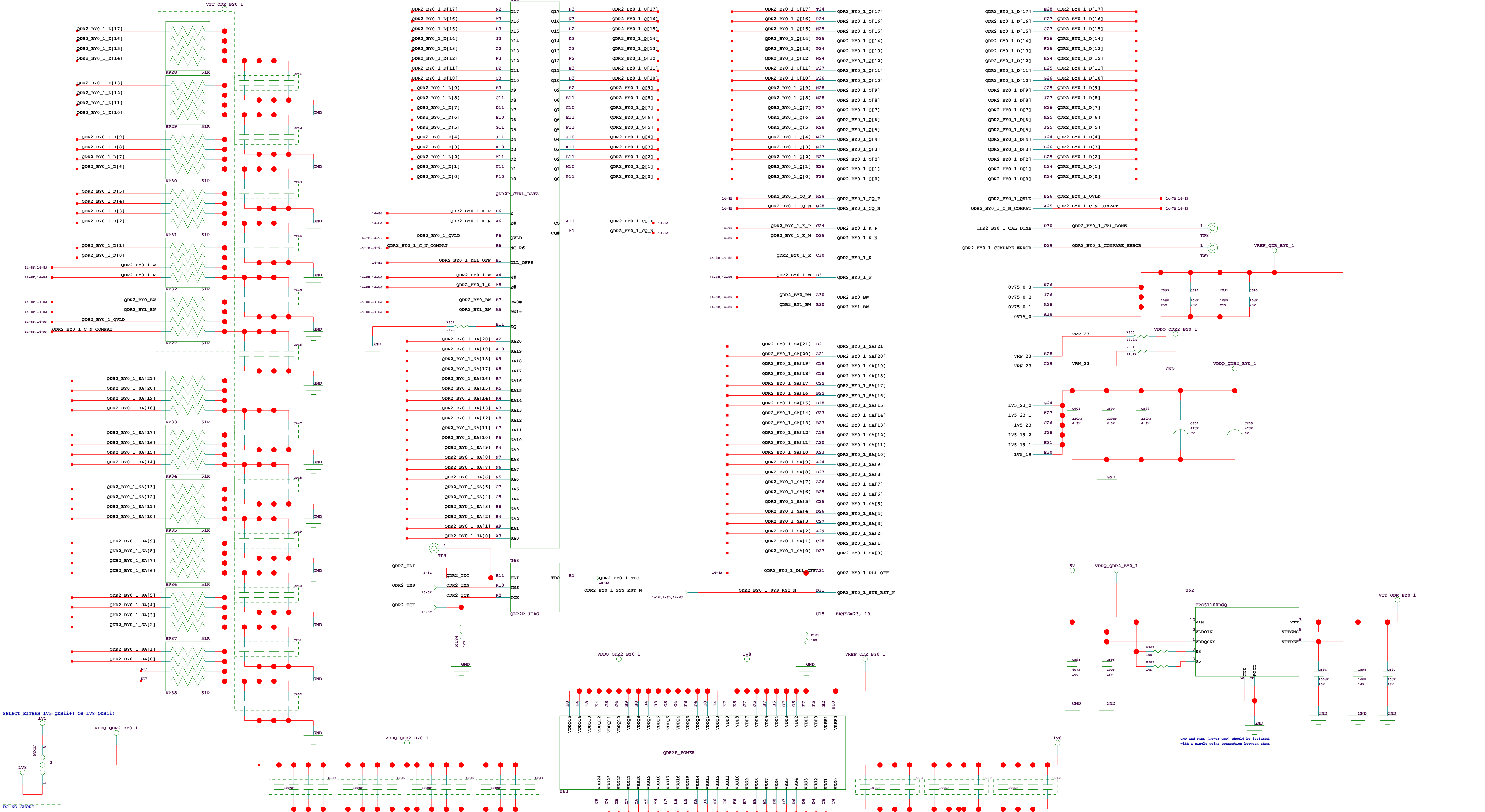




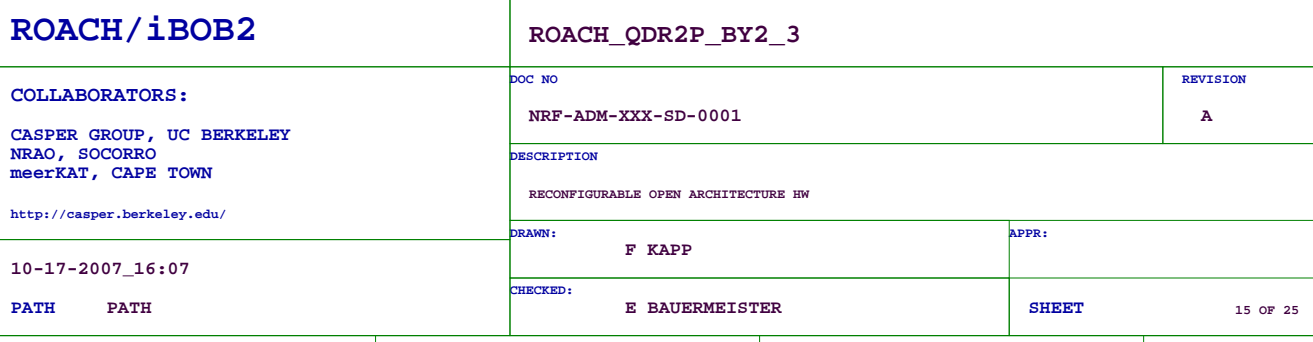
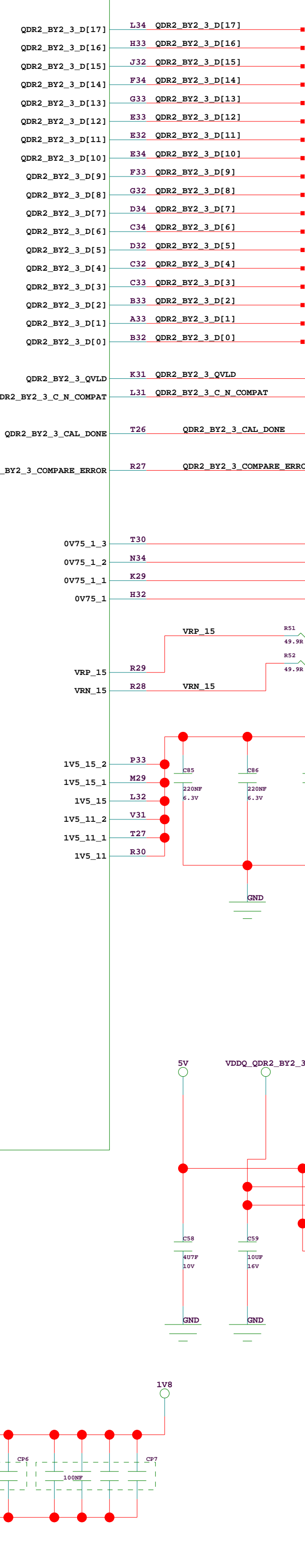
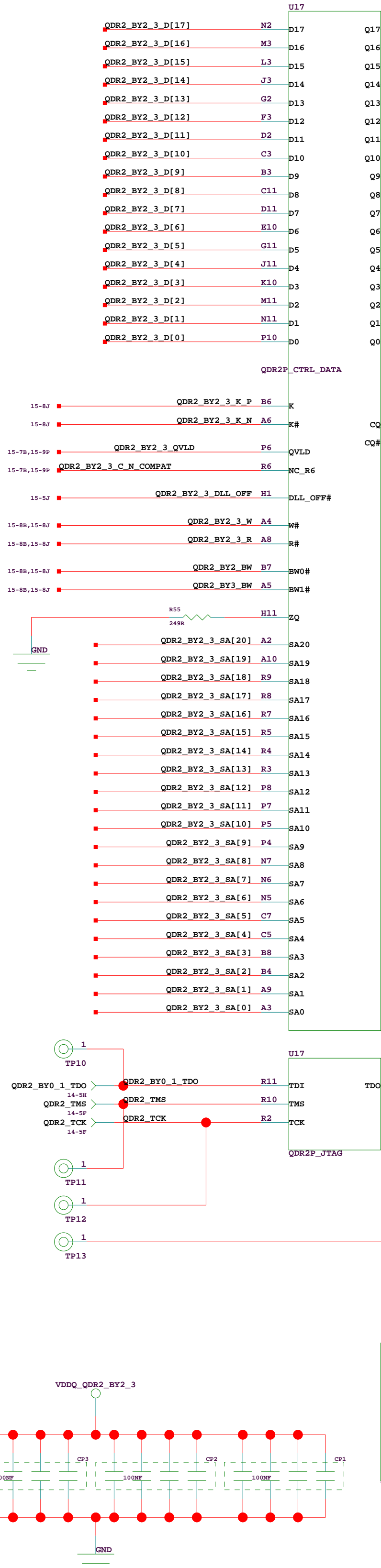
ROACH/iBOB2		ROACH_DIFF_GPIO	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY MRAD, GOCORO MESAECO, CAPE TOWN http://casper.berkeley.edu/		NRY-ADM-XXX-ID-0001 DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE ON	A
10-17-2007-15:51		NAME:	APP:
PATH PATH		F KAPP	
CHECKED:		E BAUERMEISTER	SHEET
			12 OF 2



ROACH/iBOE2				ROACH_GPIO_MISC			
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOONERO BauerKAT, CAPE TOWN http://casper.berkeley.edu/ 10-17-2007_15:51				DOC NO: NRF-ADM-XXX-BD-0001		REVISION: A	
				DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW			
				DRAWN: F KAPP		APPD:	
PATH		PATH		CHECKED: R BAUERMEISTER		SHEET	
				13 OF 25			

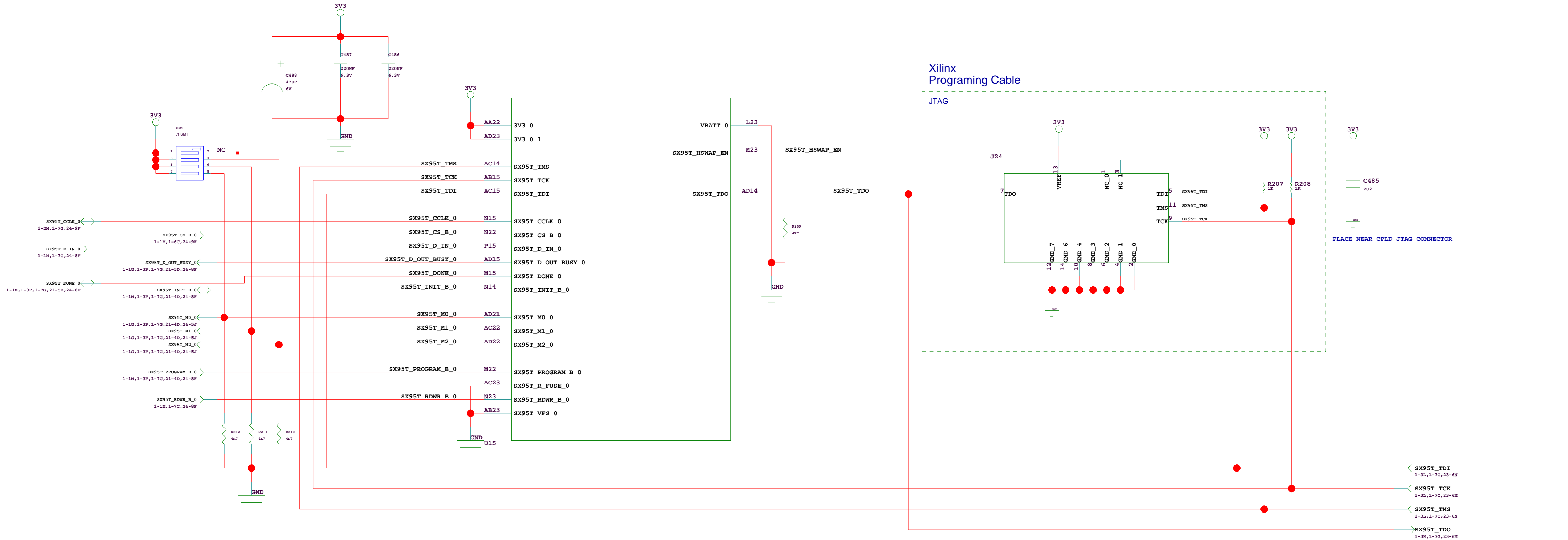


ROACH/iBOE2		ROACH_QDR2P_BY0_1	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		NAME:	IPF:
10-17-2007_16:07		F KAPP	
PATH		R BAUERMEISTER	
		CHECKED:	SHEET

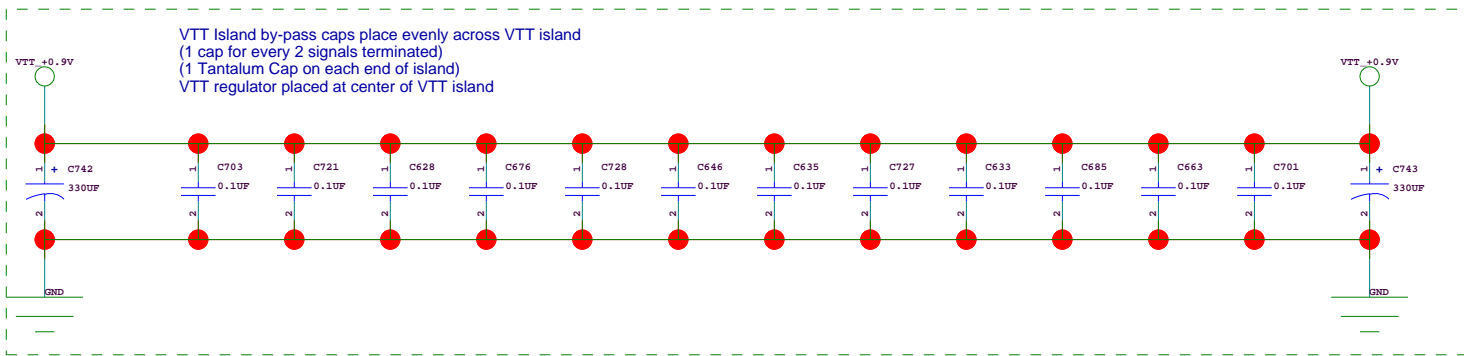
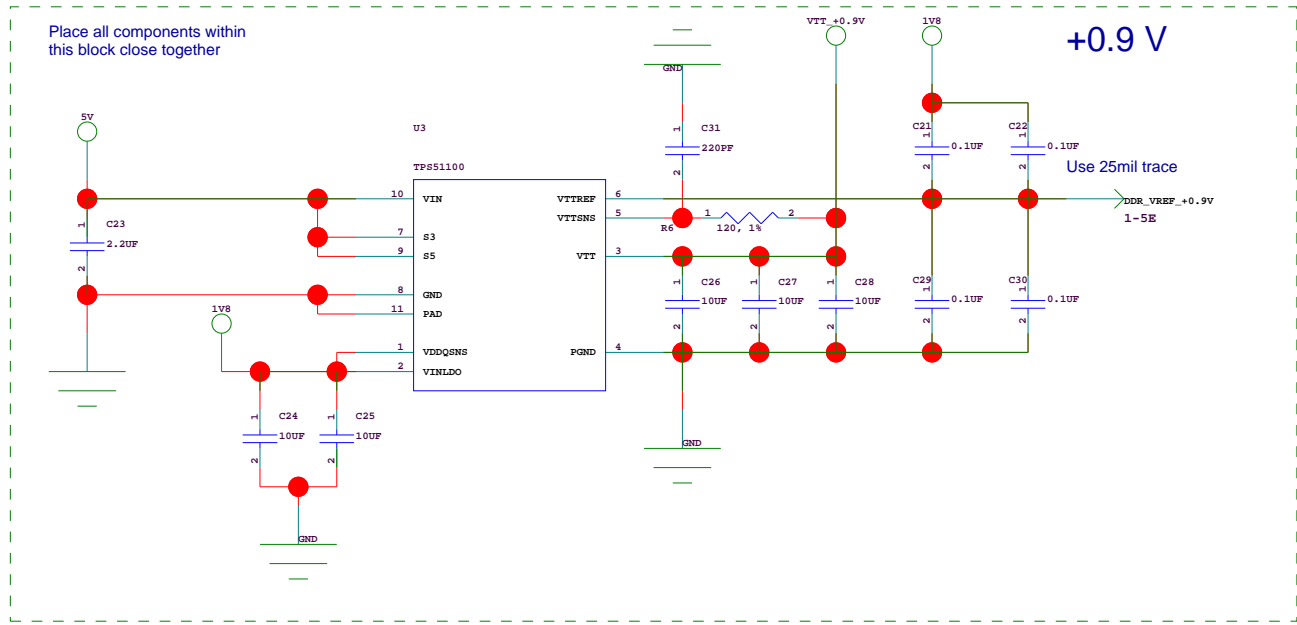
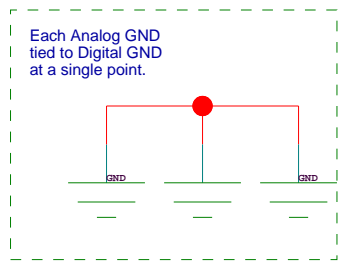
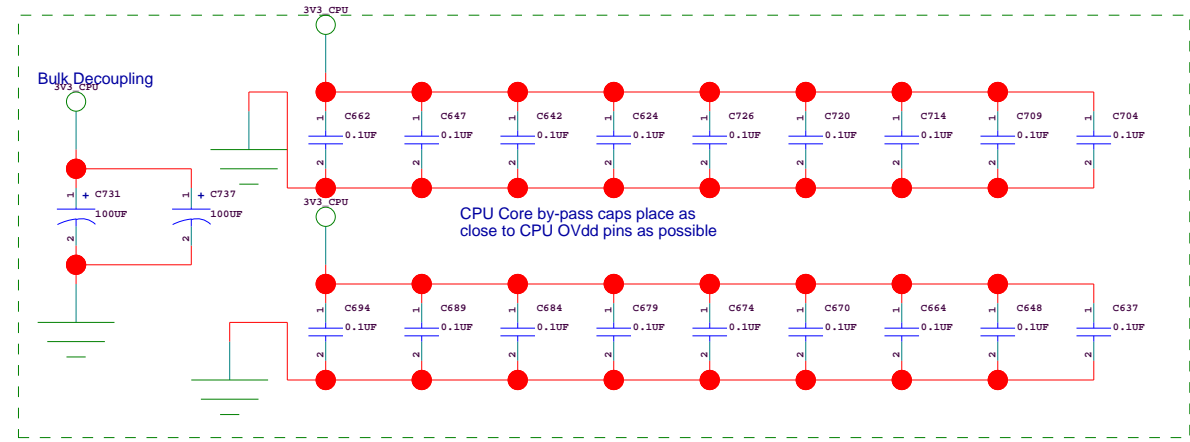
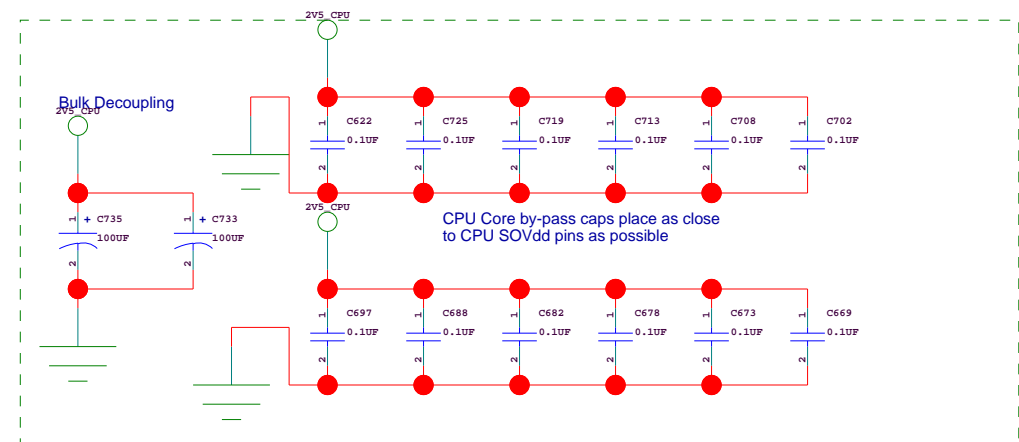
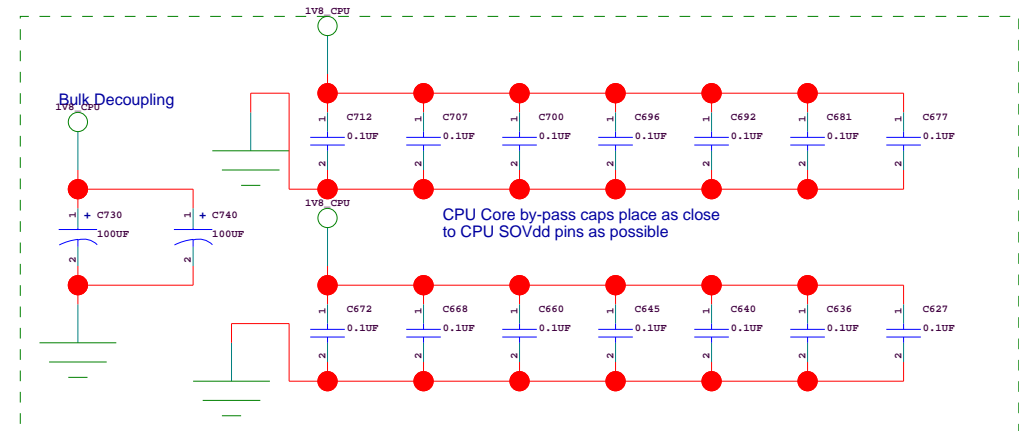
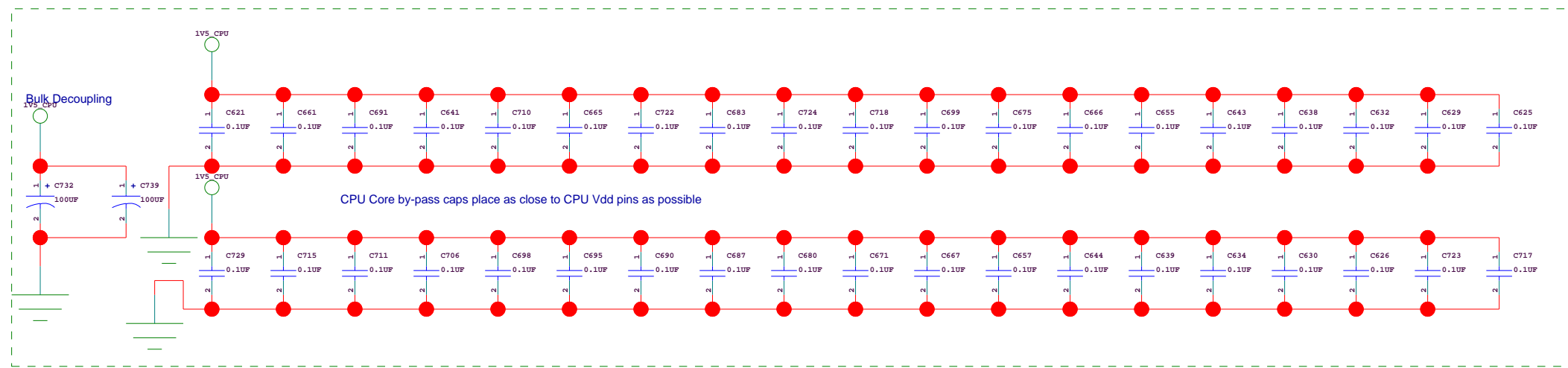
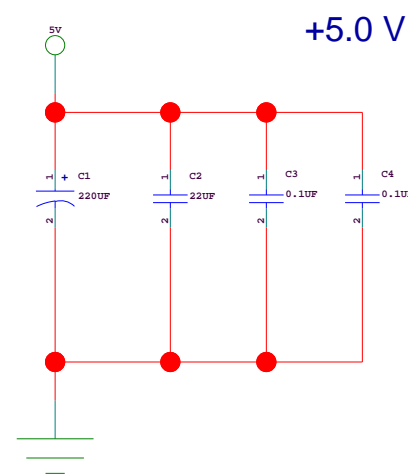
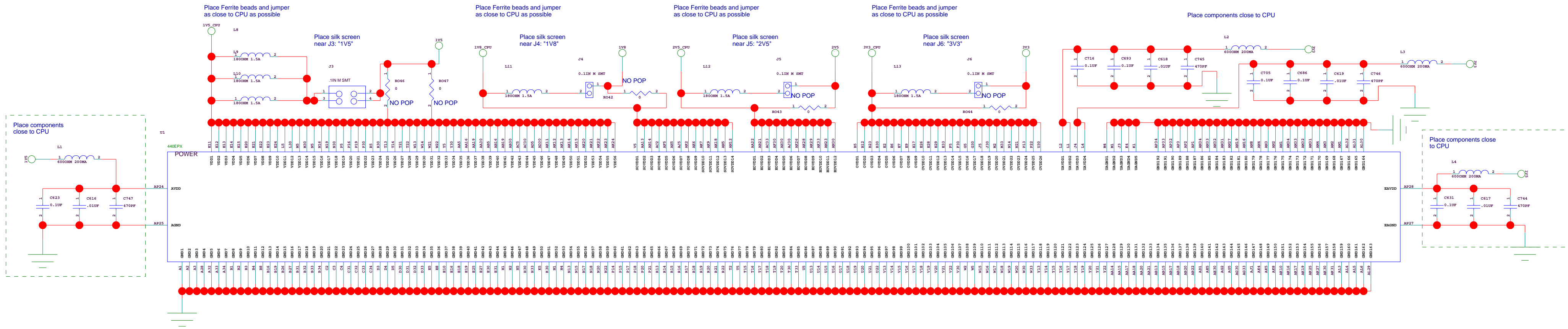


TBD

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 http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	10-17-2007_15:51	DRAWN: F KAPP	APPR:
PATH	PATH	CHECKED: E BAUERMEISTER	SHEET 16 OF 25



ROACH/iBOE2

COLLABORATORS:
CASPER GROUP, UC BERKELEY
NRAO, SOONERO
BAAERAT, CAPE TOWN
<http://casper.berkeley.edu/>

10-17-2007_15:51

PATH PATH

ROACH_PPC_POWER_1

DOC NO: NRP-ADM-XXX-BD-0001

DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW

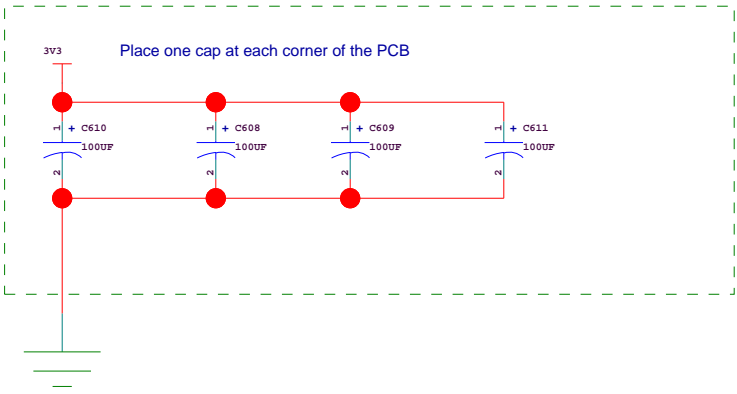
REVISION: A

DATE: 10-17-2007_15:51

PATH PATH

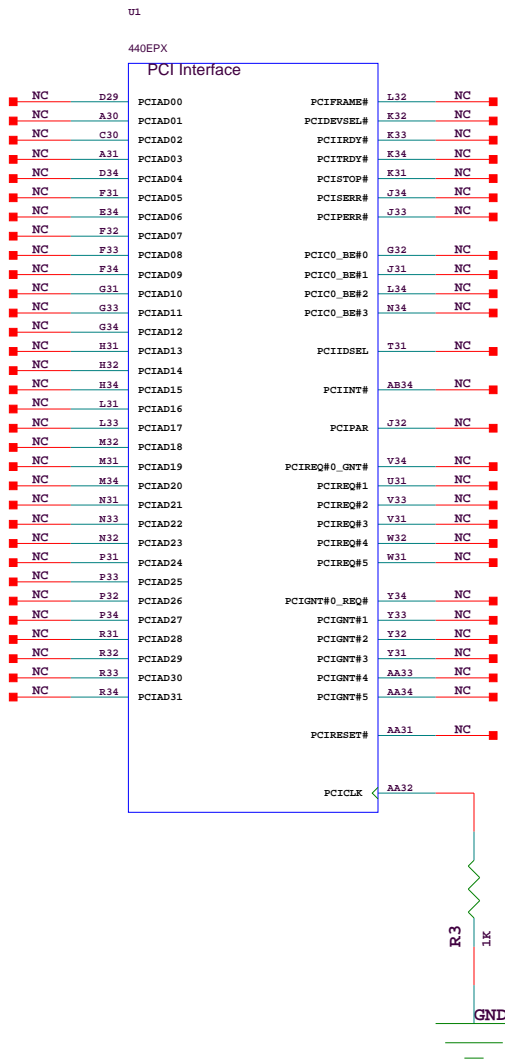
17 OF 25

	A	B	C	D	E	F	G	H	J	K	L	M
7												
6			REMOVED 3V3 GENERATION									
5												
4		REMOVED +12V GENERATION			REMOVED -12V GENERATION							
3												
2												
1		REMOVED +1V GENERATION			REMOVED +2V5 GENERATION							
0												
	A	B	C	D	E	F	G	H	J	K	L	M

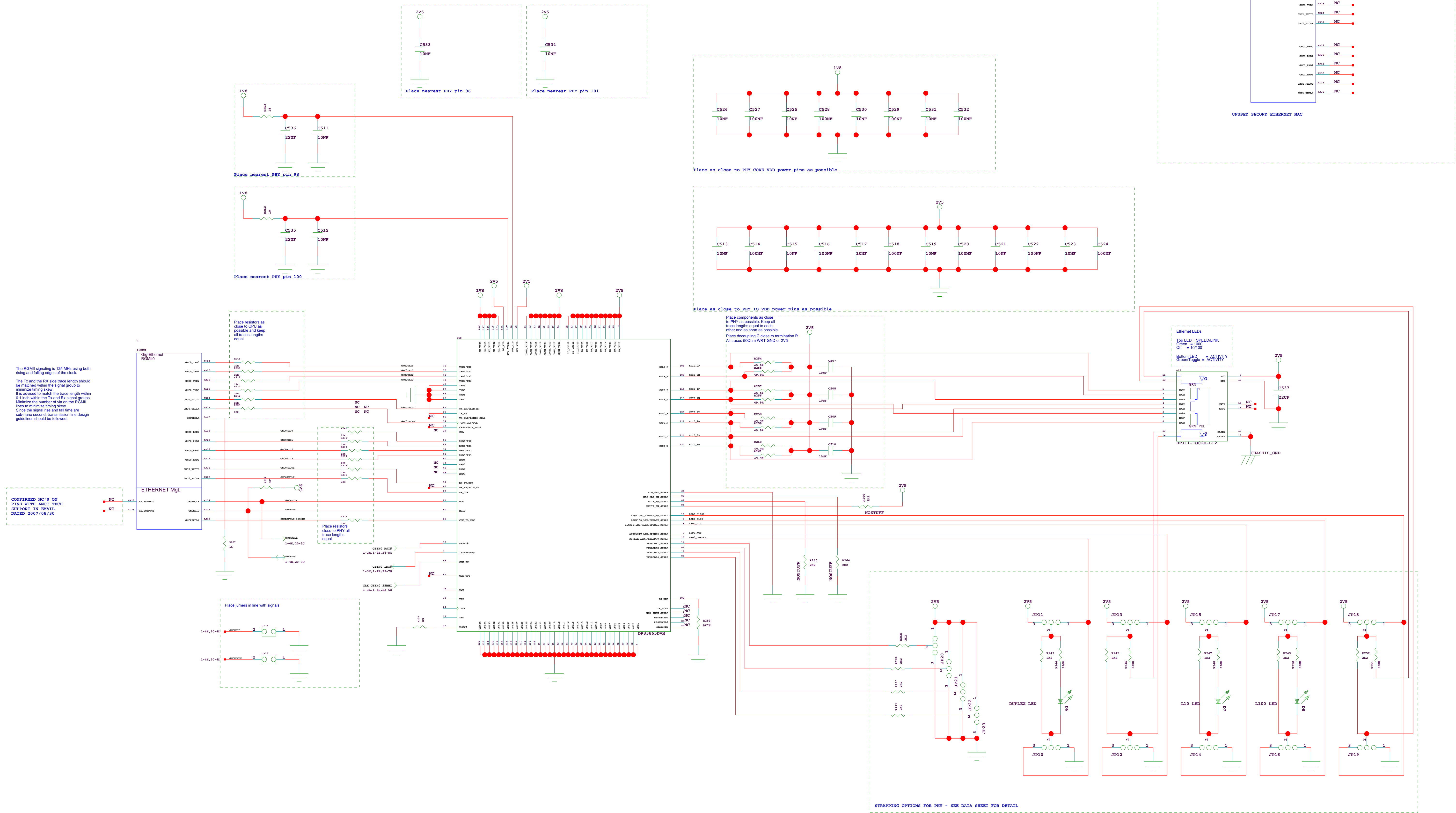


ROACH/iBOB2	ROACH_PPC_POWER_2	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001	REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW	
	DRAWN: F KAPP	APPR:
10-17-2007_15:51	CHECKED: E BAUERMEISTER	SHEET 18 OF 25
PATH	PATH	

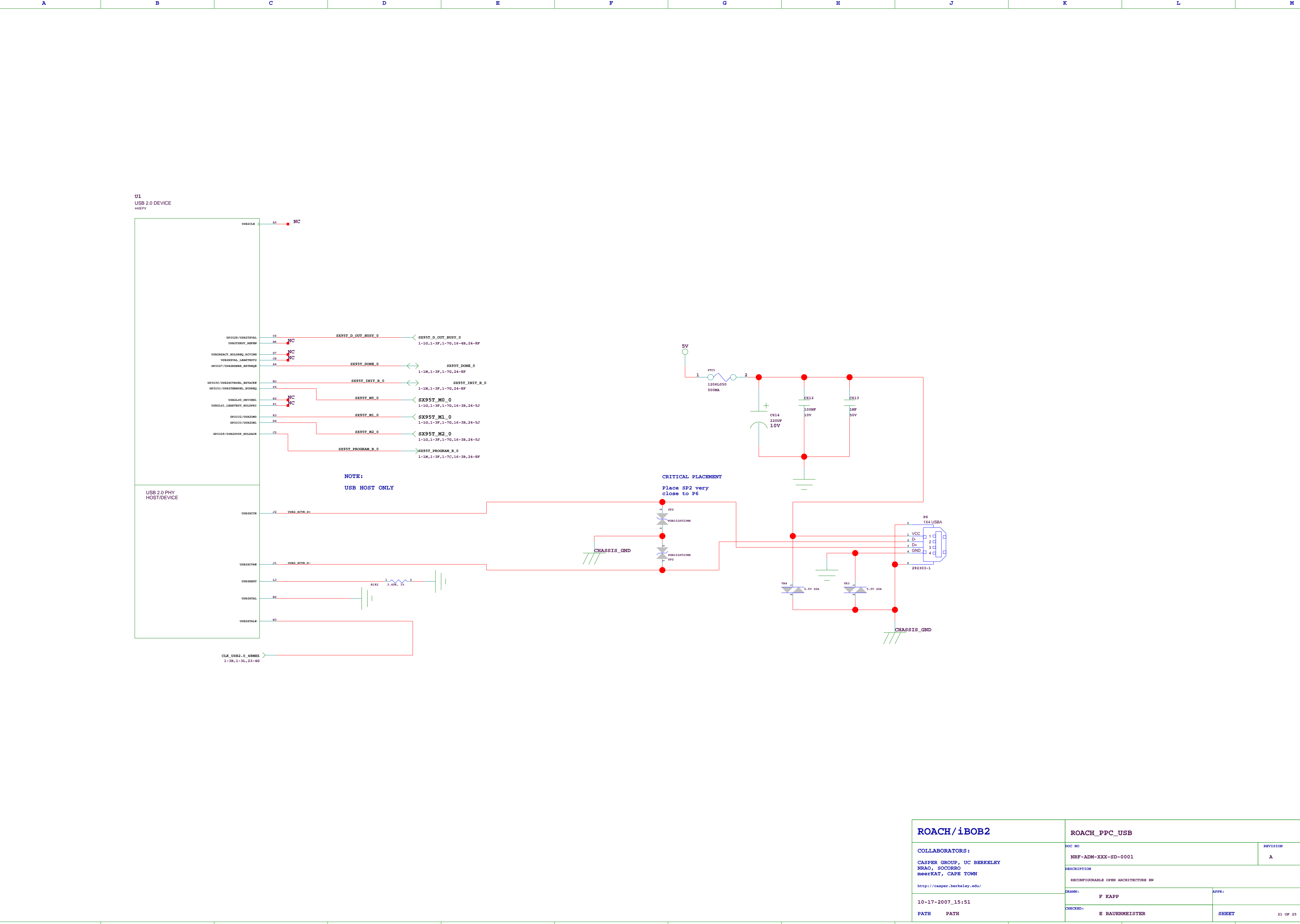
PCI BUS NOT IMPLEMENTED



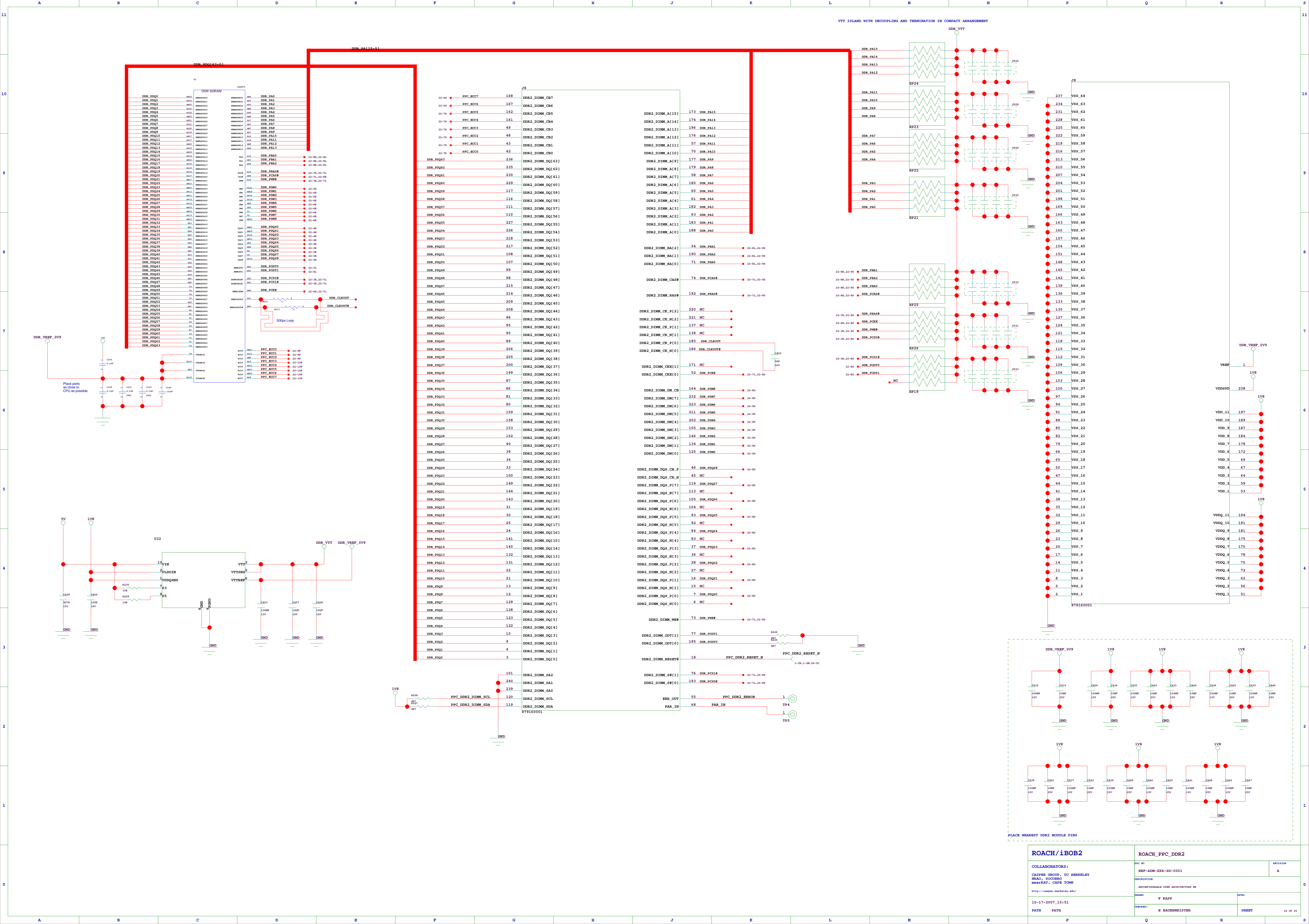
ROACH/iBOB2		ROACH_PPC_PCI	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	DRAWN: F KAPP		APPR:
10-17-2007_15:51	CHECKED: E BAUERMEISTER		SHEET
PATH	PATH		19 OF 25

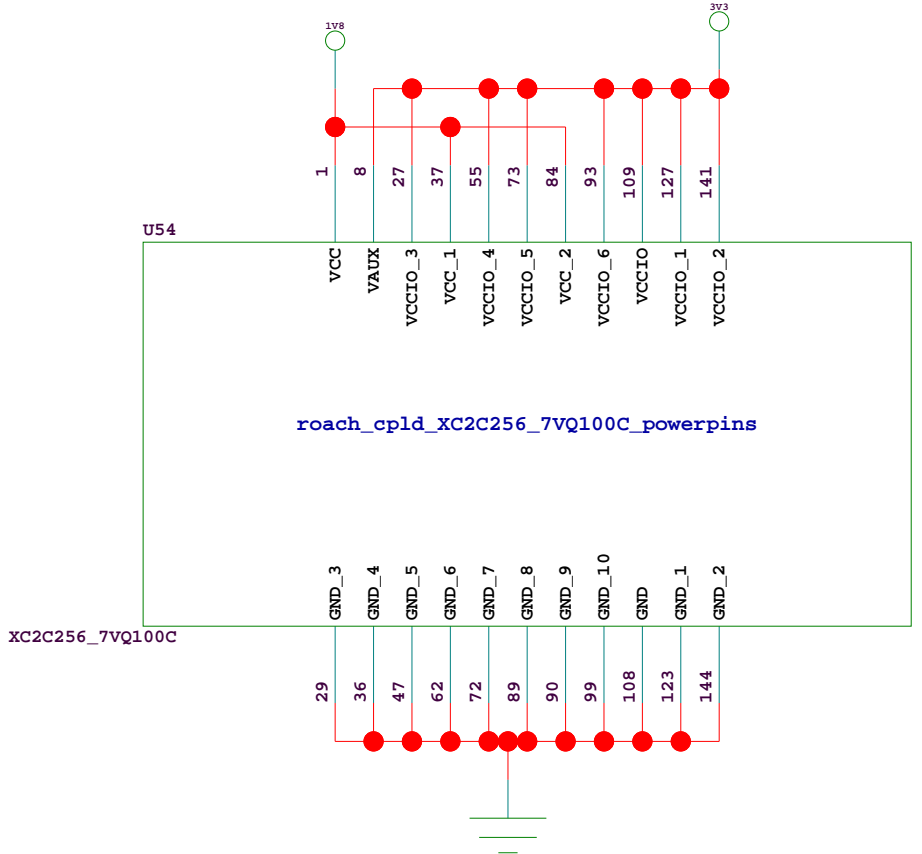
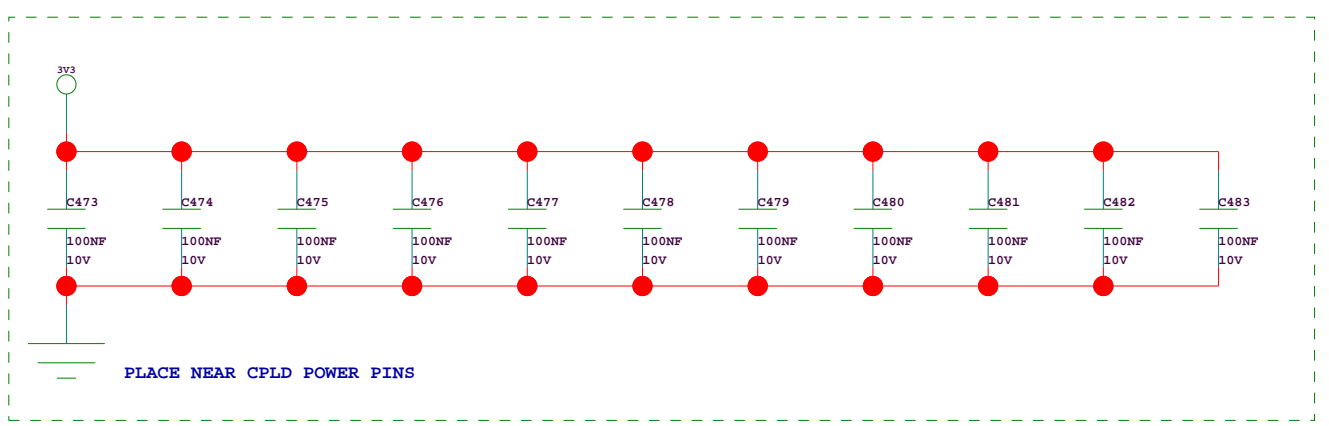
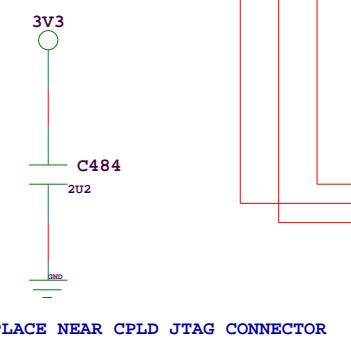
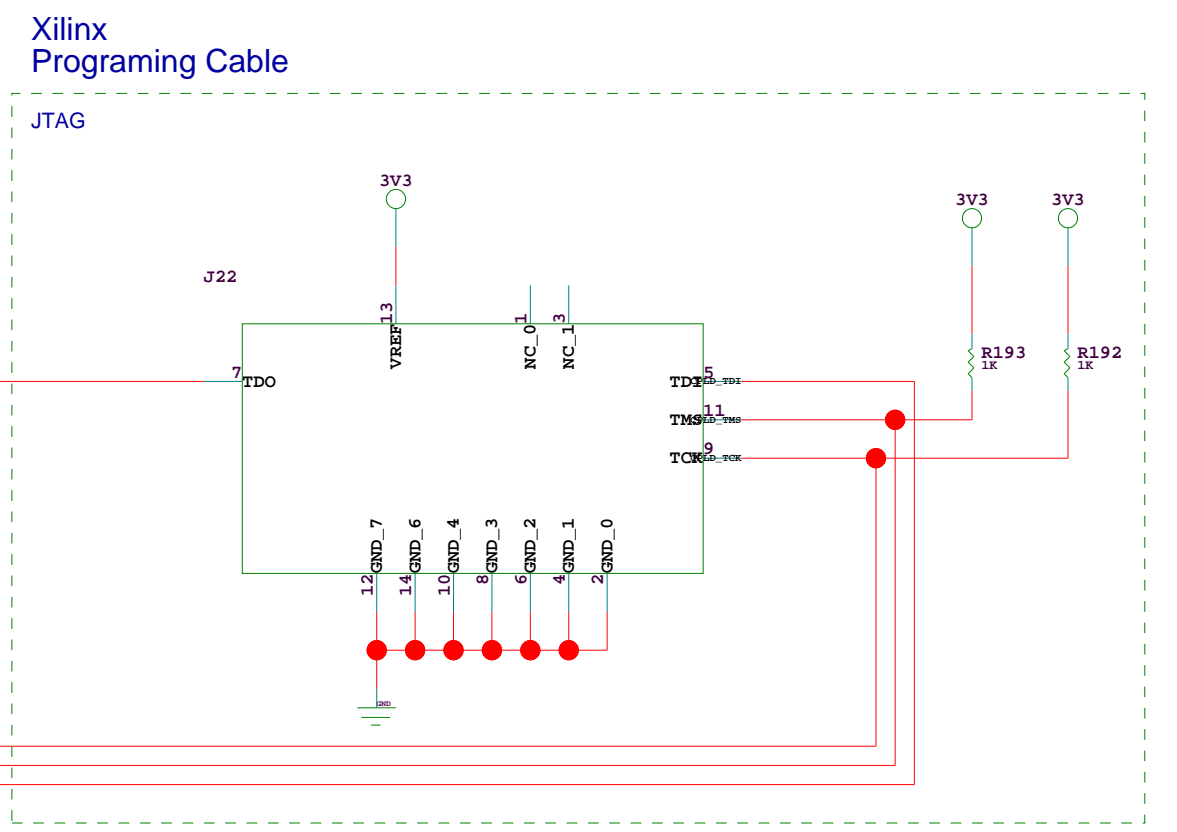
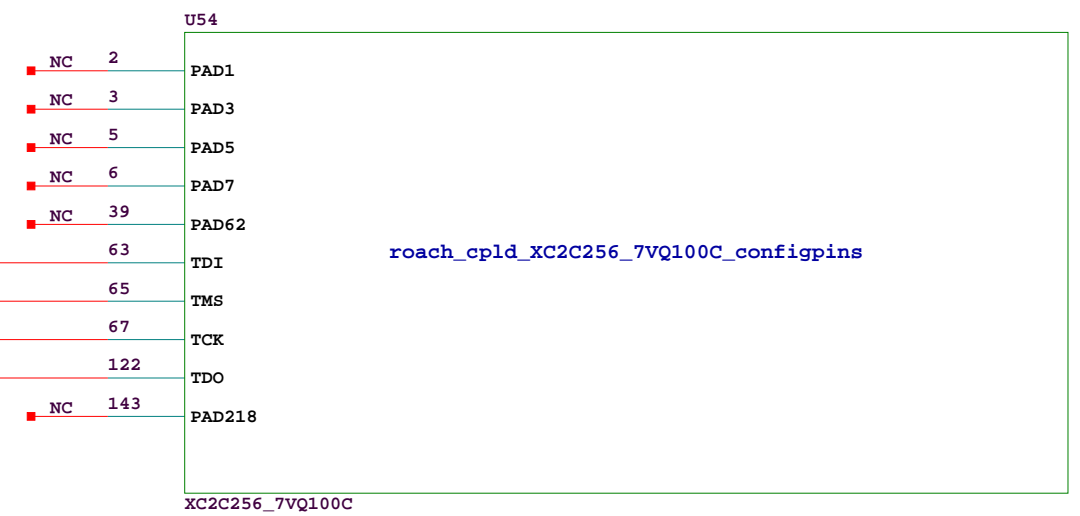
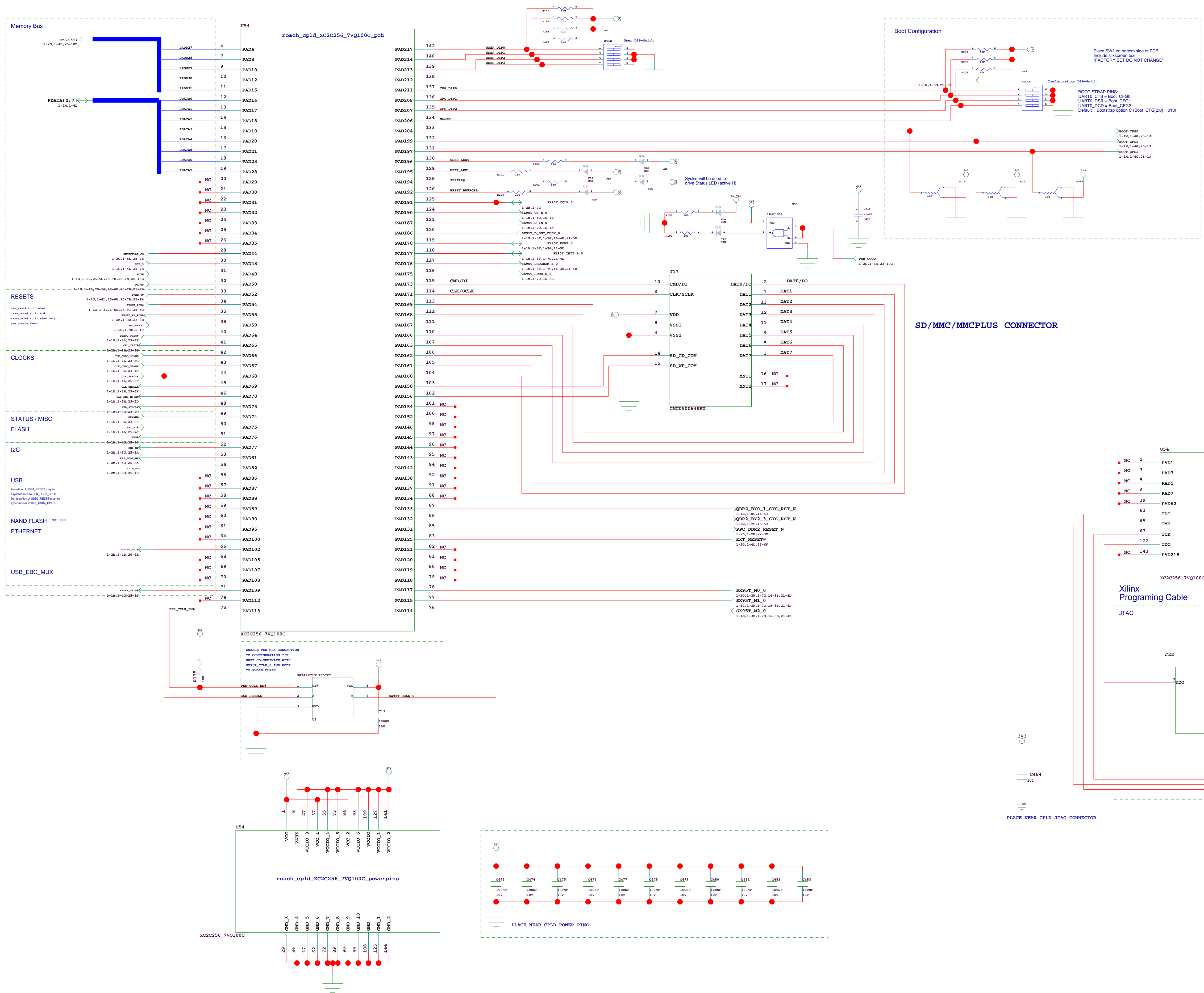


ROACH/iBOB2		ROACH_PFC_ETH1	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY BRNO, CROBORG meerkat, CAPS TOWN		NRP-ADM-XXX-ED-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE SW	
http://casper.berkeley.edu/		ISSUED:	DATE:
10-17-2007 15:51		F KAPP	
PATH PATH		CHECKED:	SHEET
		E BAUMENISTER	20 OF 2



ROACH/iBOB2		ROACH_PPC_USB	
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		
	DRAWN: F KAPP		APPR:
	CHECKED: E BAUERMEISTER		SHEET 21 OF 25
10-17-2007_15:51			
PATH	PATH		





ROACH/1BOB2		ROACH_PPC_CPLD	
COLLABORATORS:		DOC NO	REVISION
CAMPER GROUP, UC BERKELEY NRAO, SOCORRO NEE/KAT, CAPE TOWN		NRF-ADM-XXX-SD-0001	A
DESCRIPTION			
RECONFIGURABLE OPEN ARCHITECTURE IM			
http://camper.berkeley.edu/		ISSUE:	
10-17-2007_15:51		NAME:	
		F KAPP	
PATH PATH		REMOVED:	
		E BAUMEISTER	
		SHEET	24 OF 25

