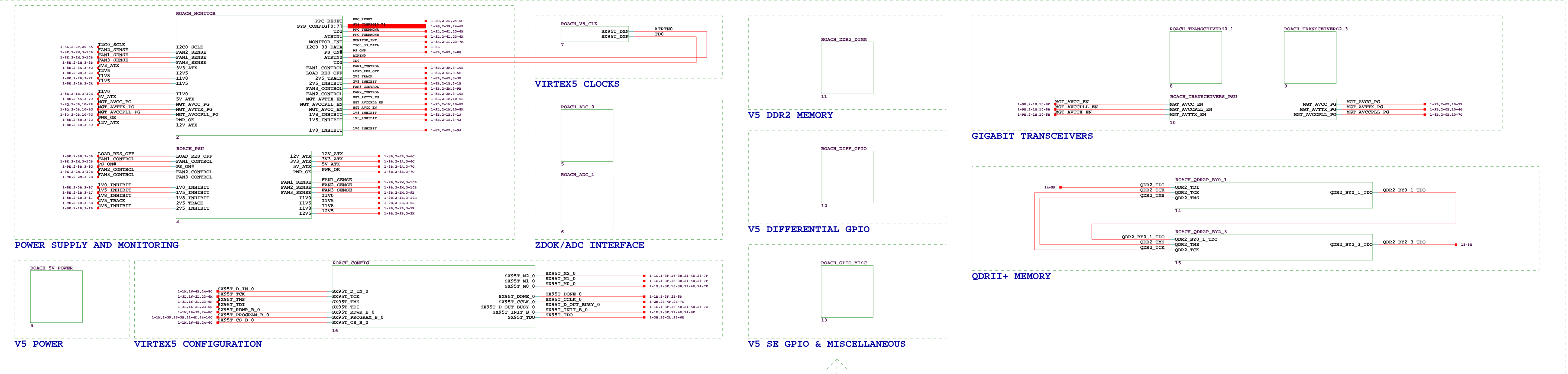
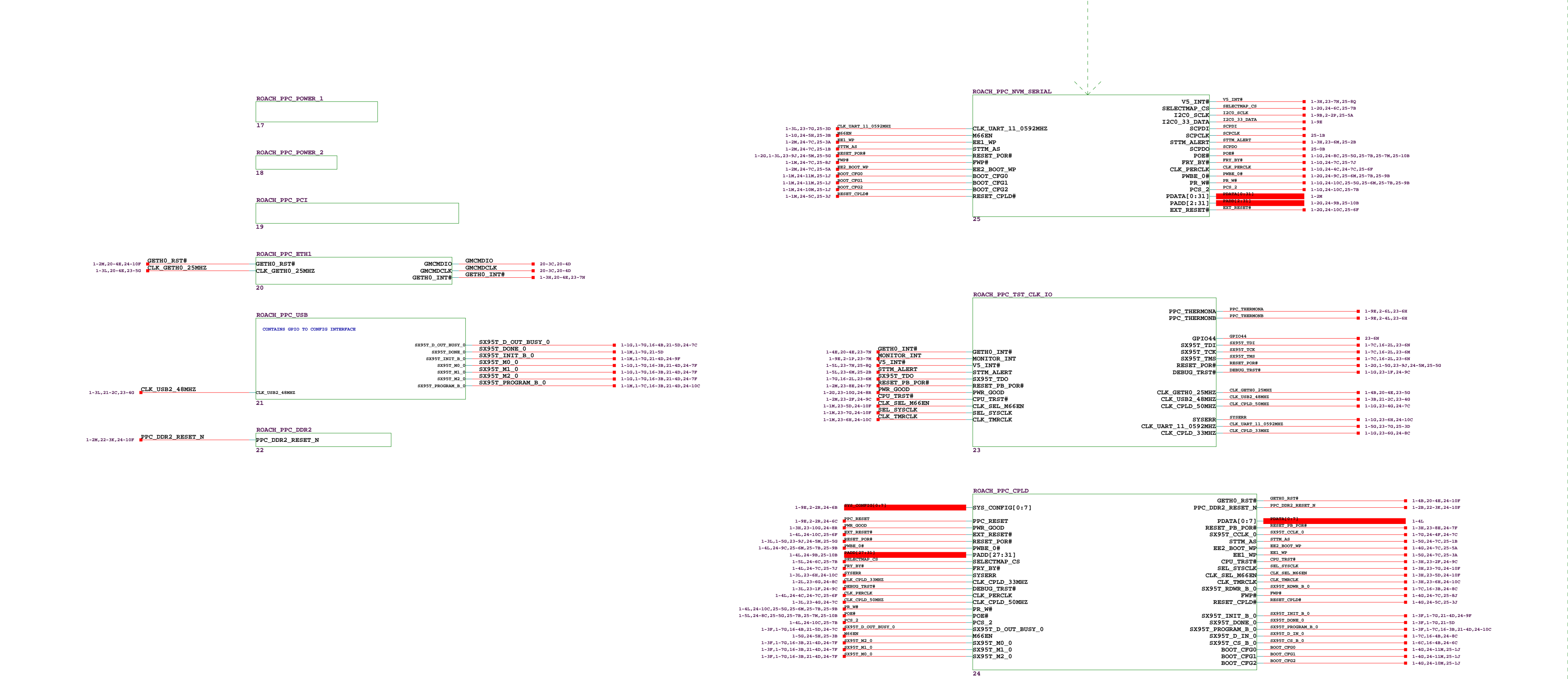


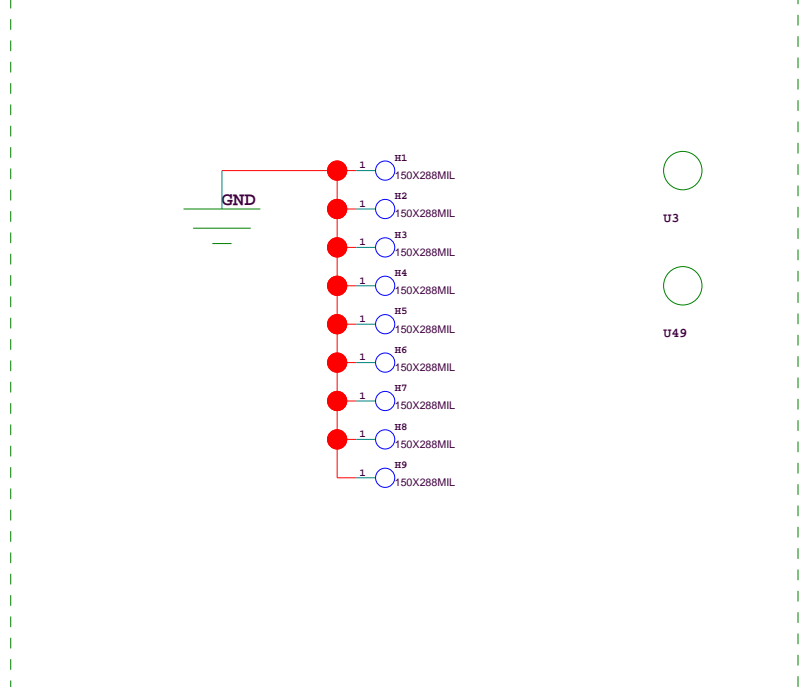
VIRTEX5



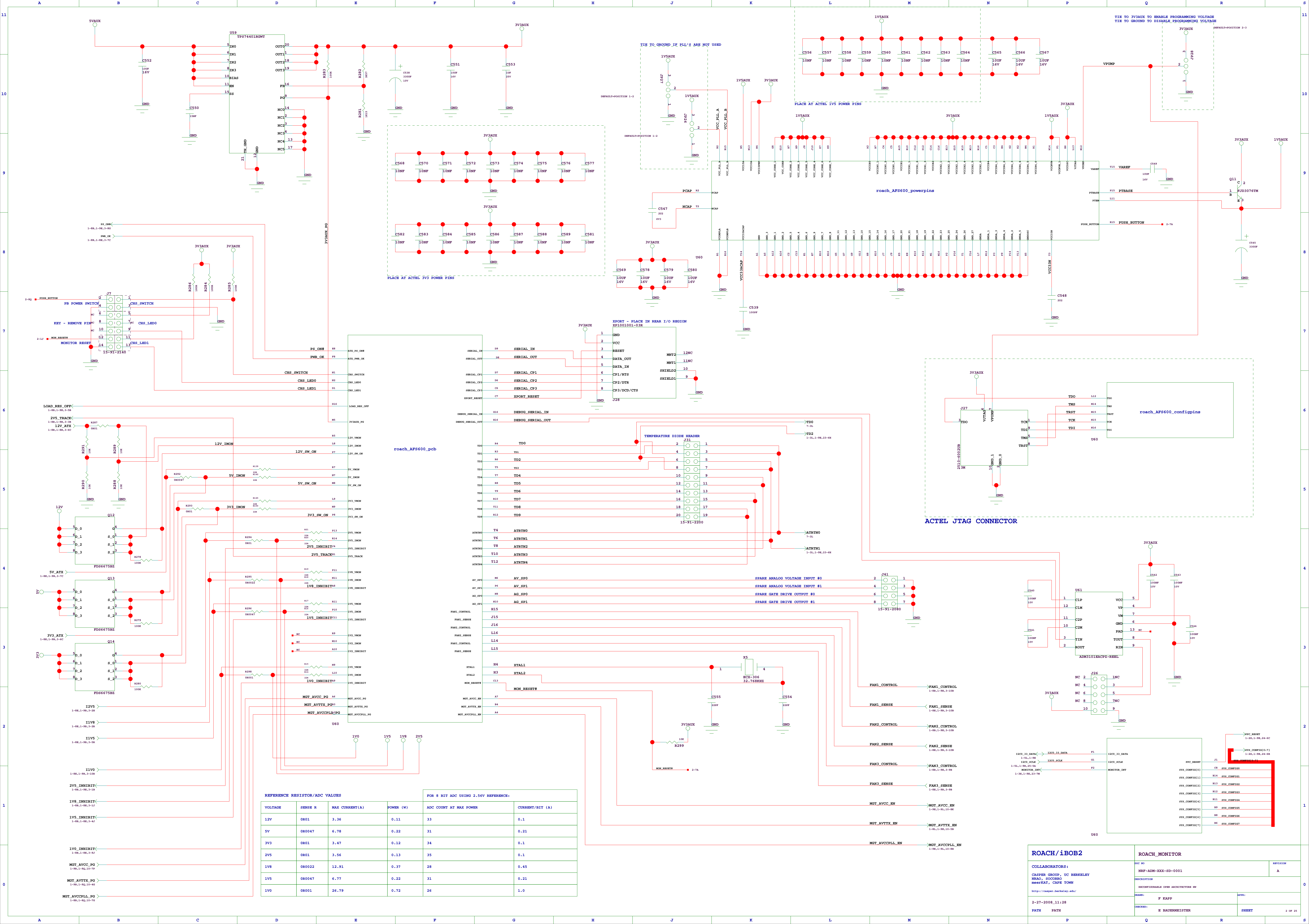
PPC

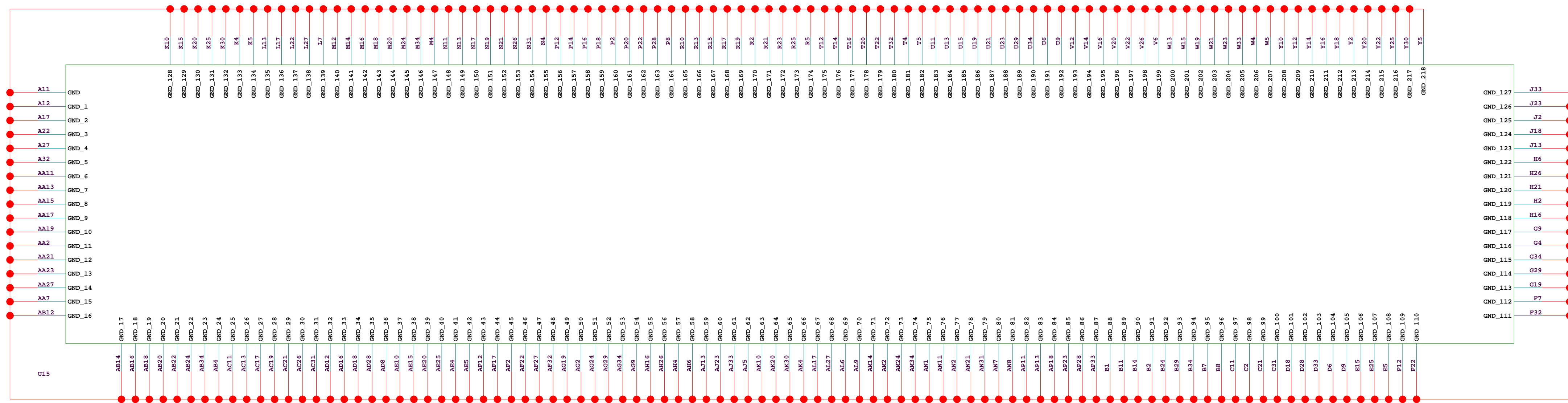
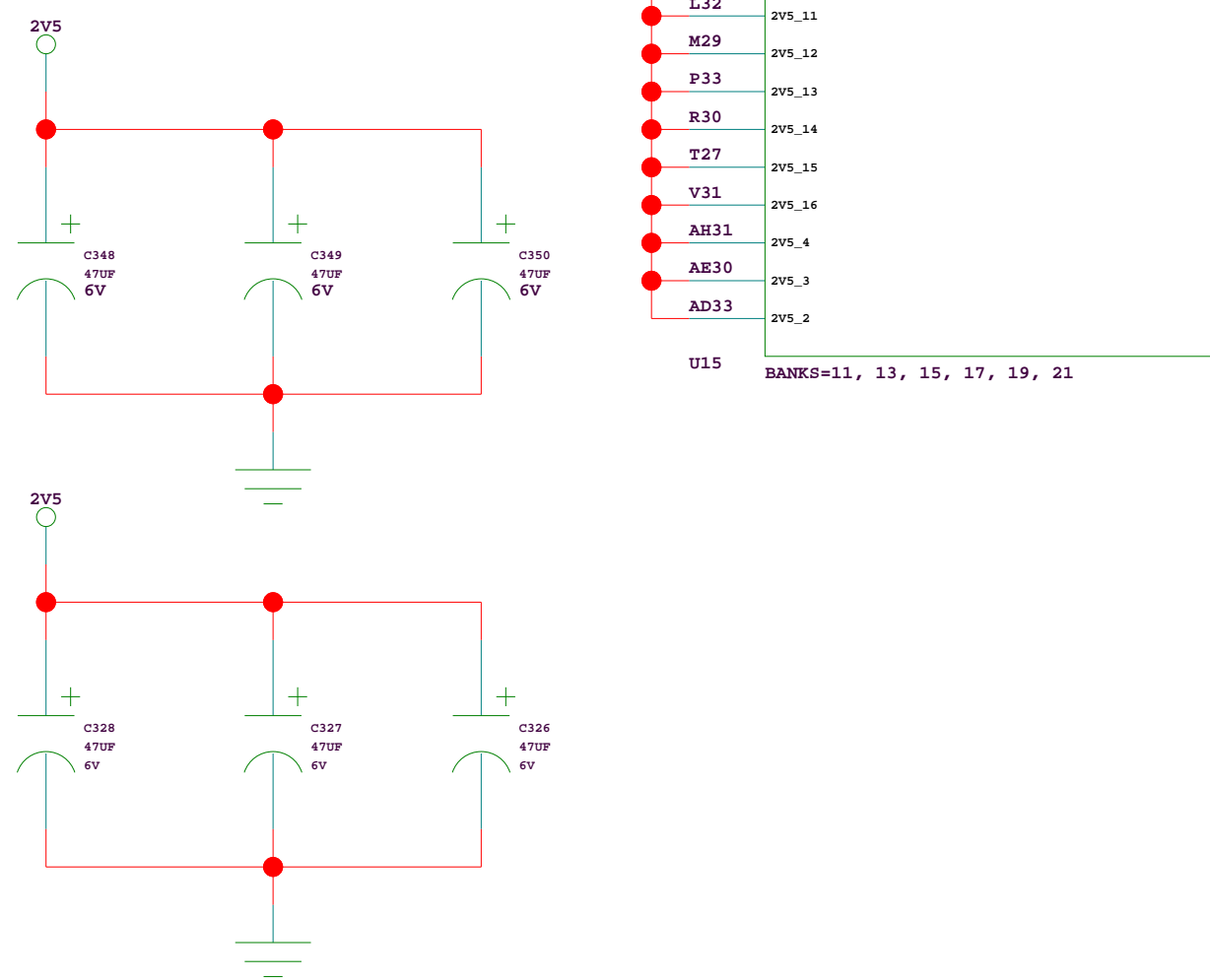
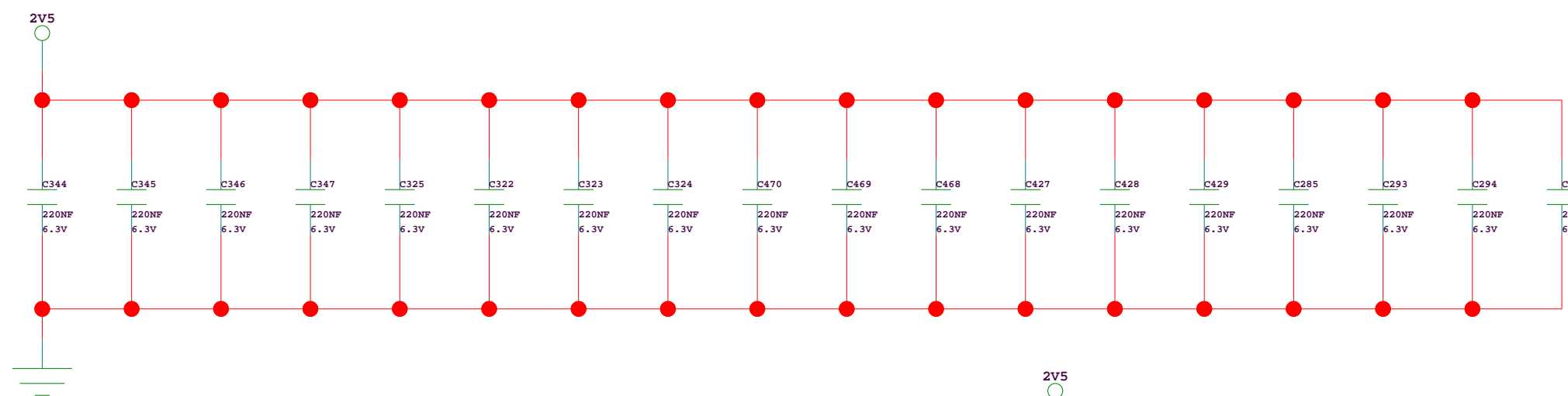
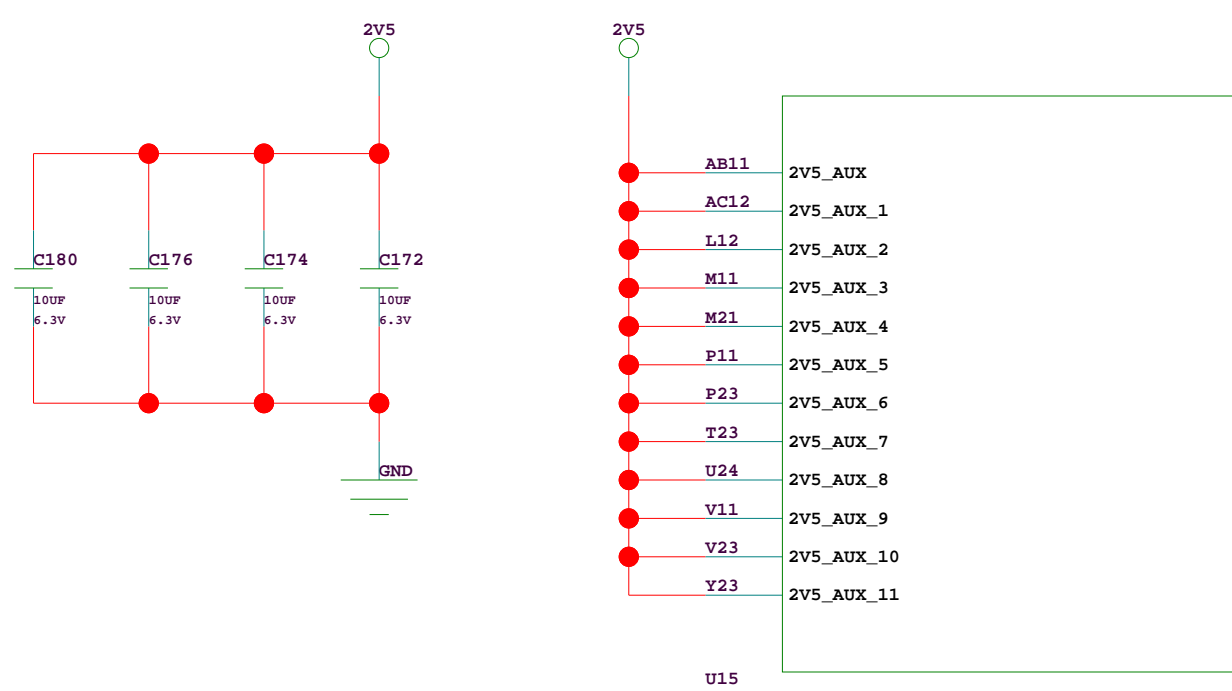
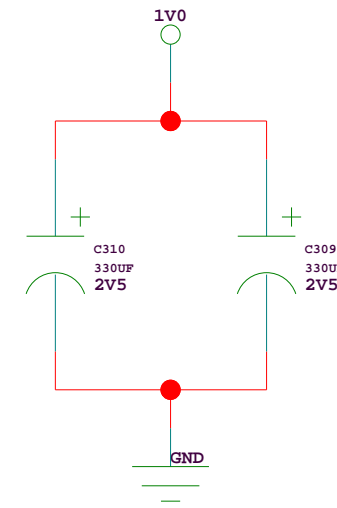
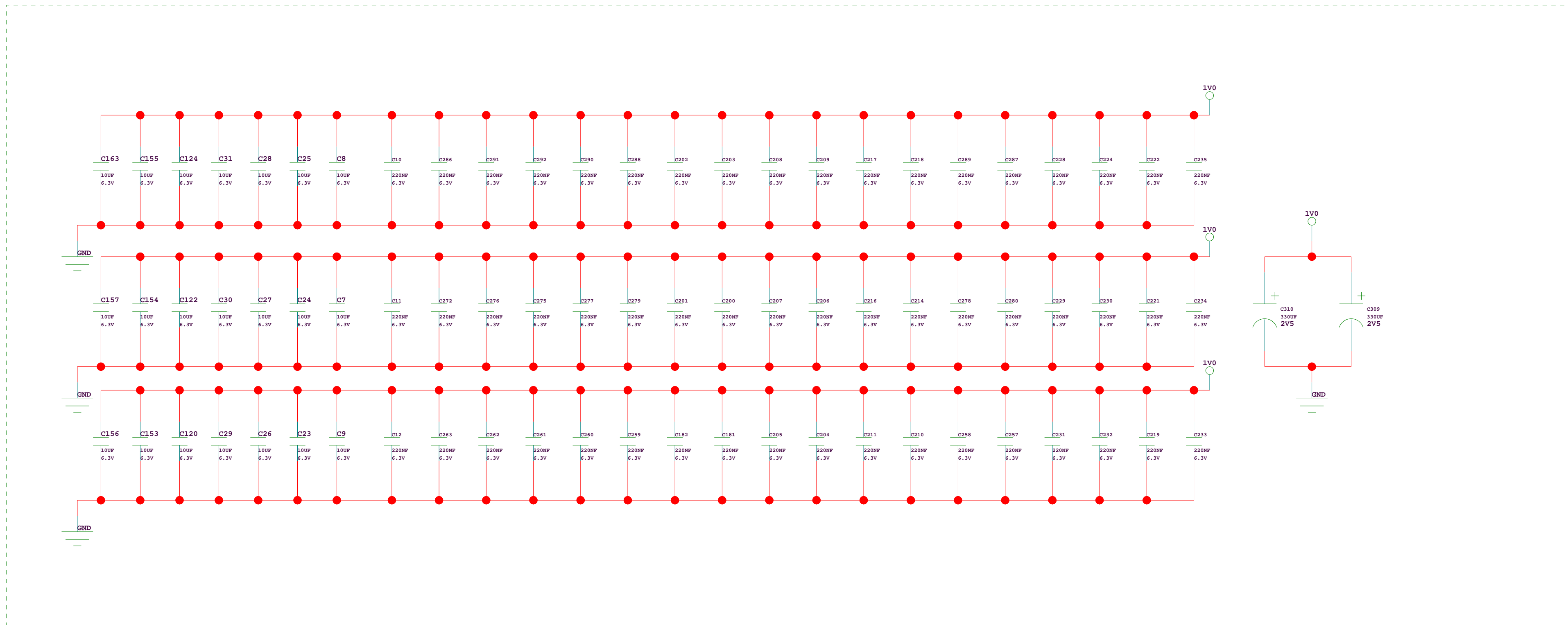
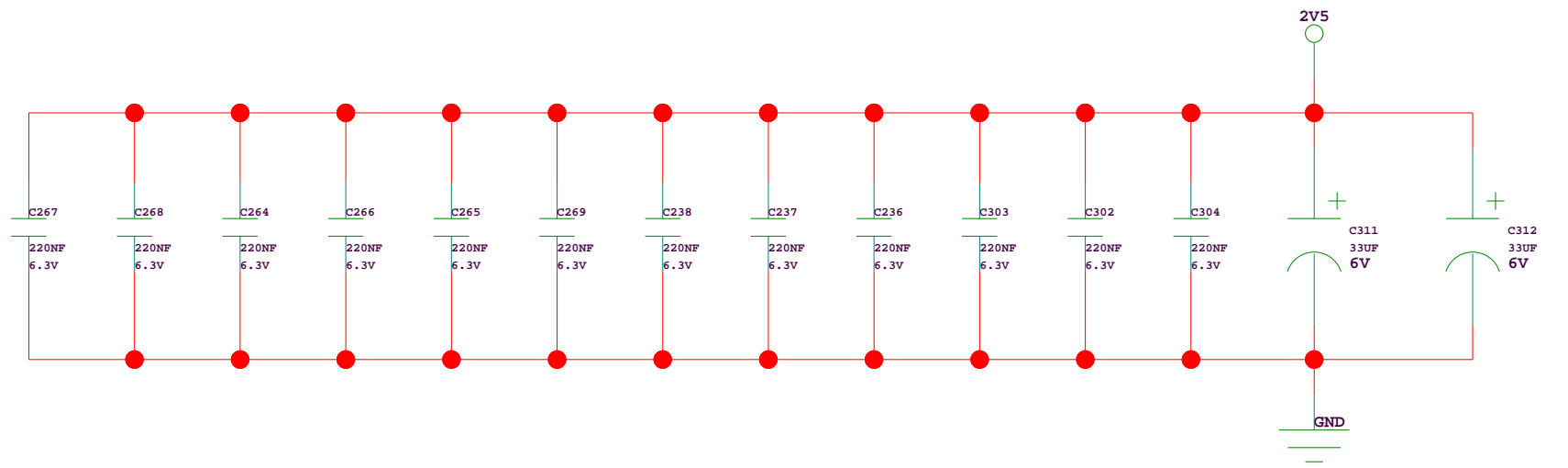
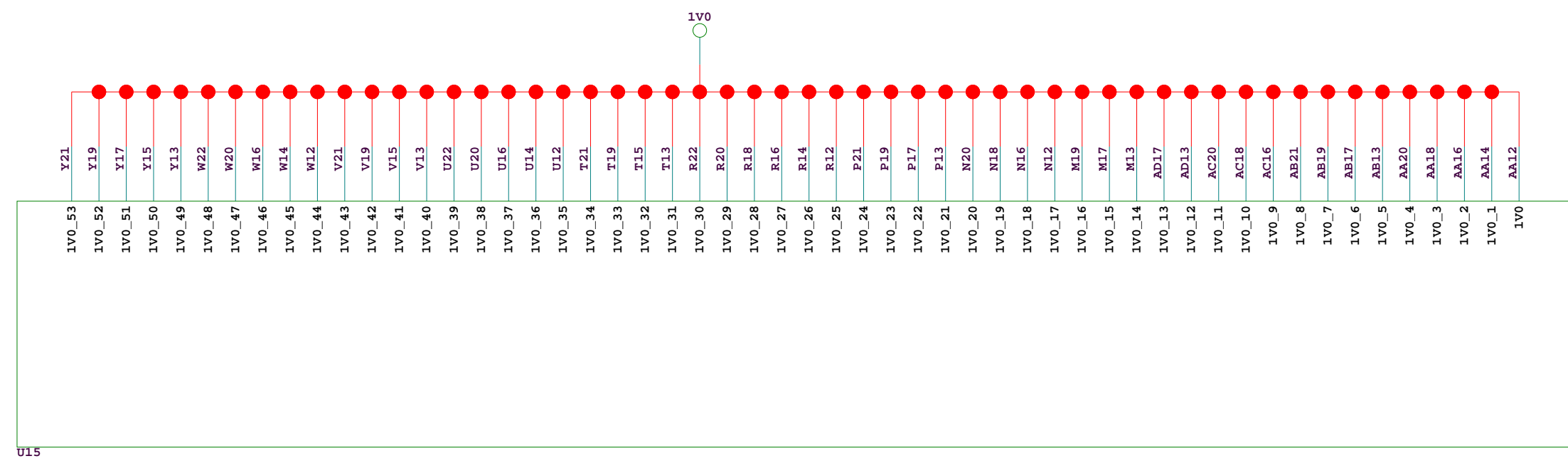


MECHANICAL

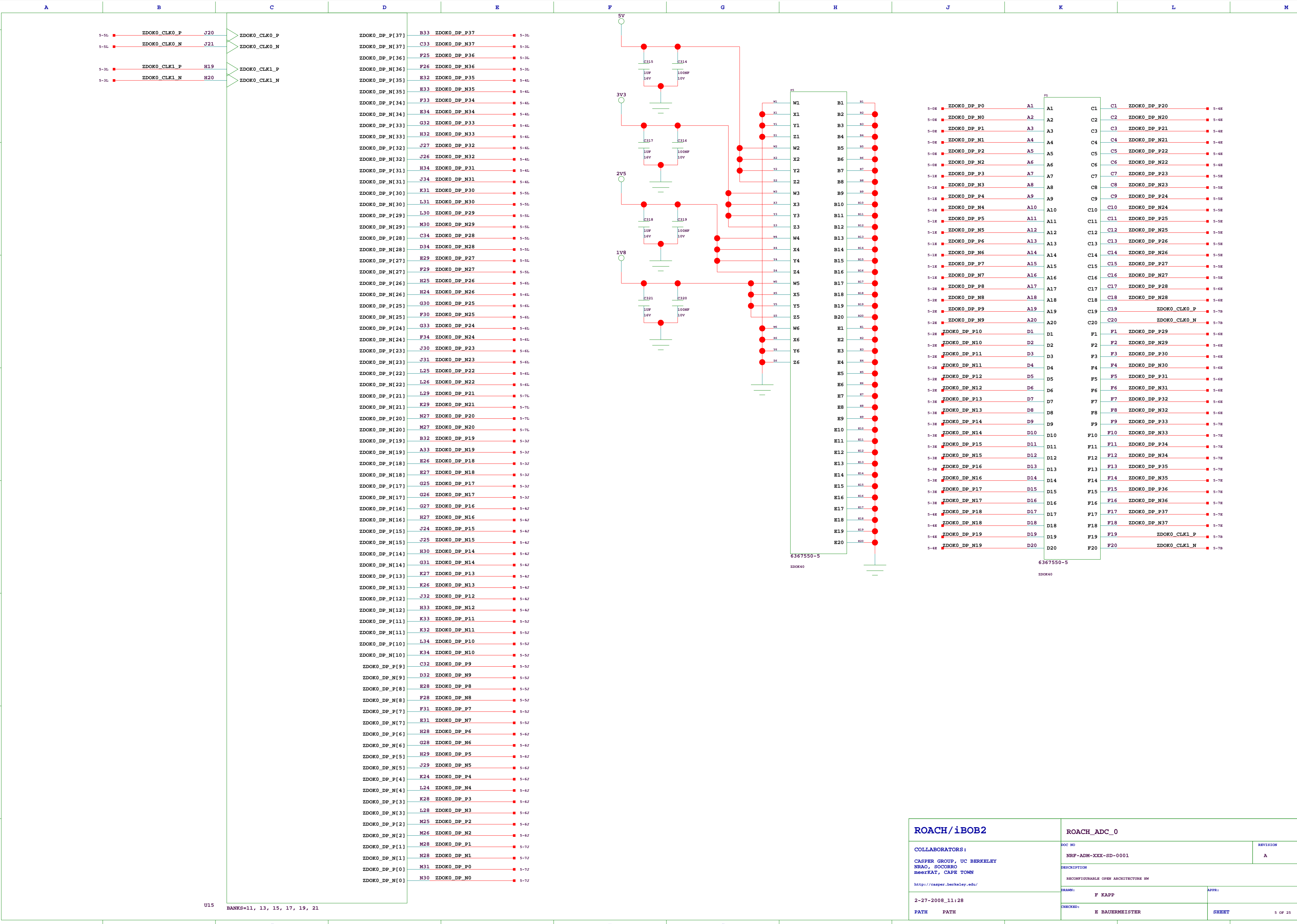


ROACH/iBOB2		ROACH_TOP	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		MRP-ADM-XXX-SD-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		DRWN:	APPD:
2-27-2008, 11:28		F KAPP	
PATH		R BAUERMEISTER	
CHECKED:		SHEET	

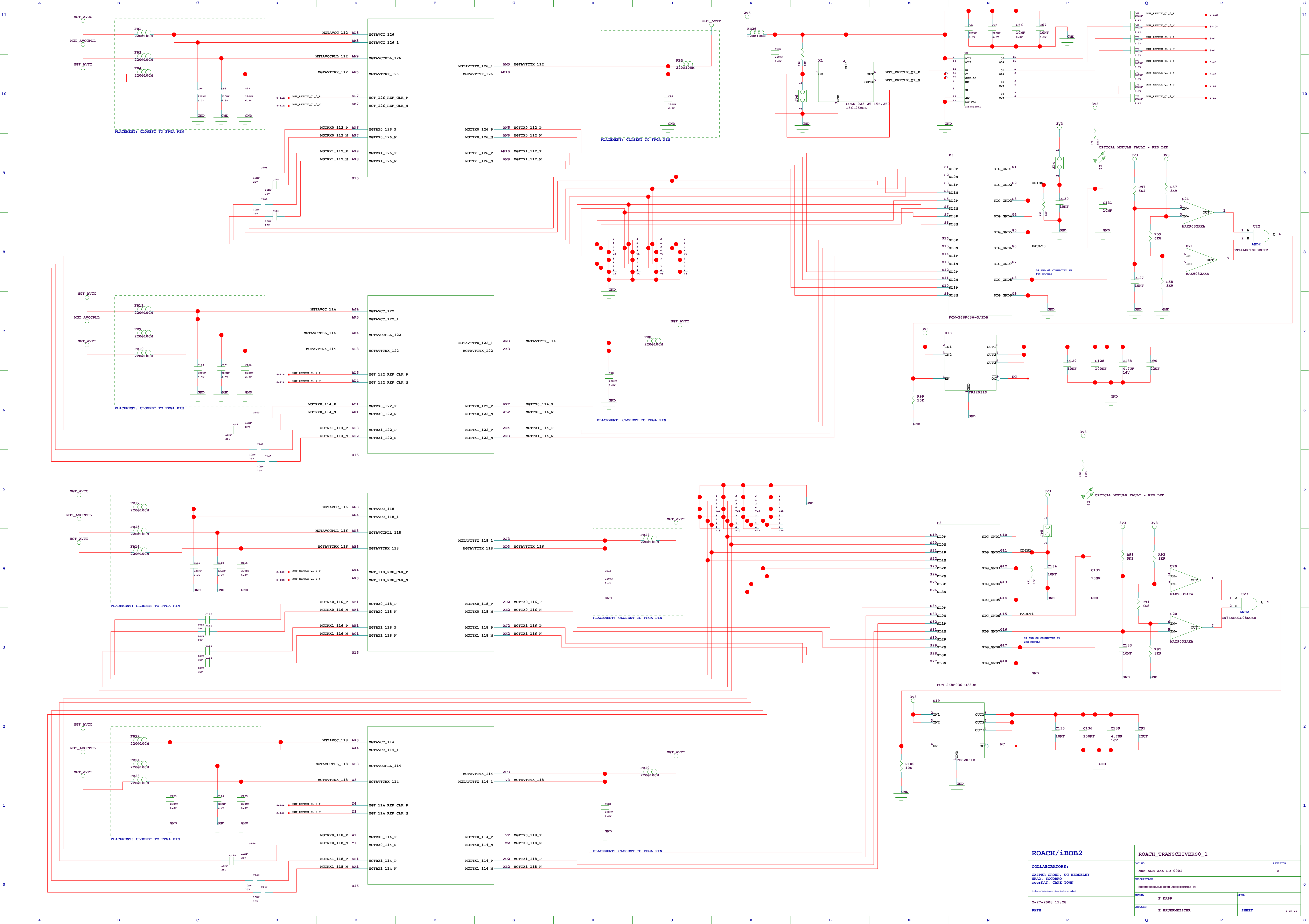


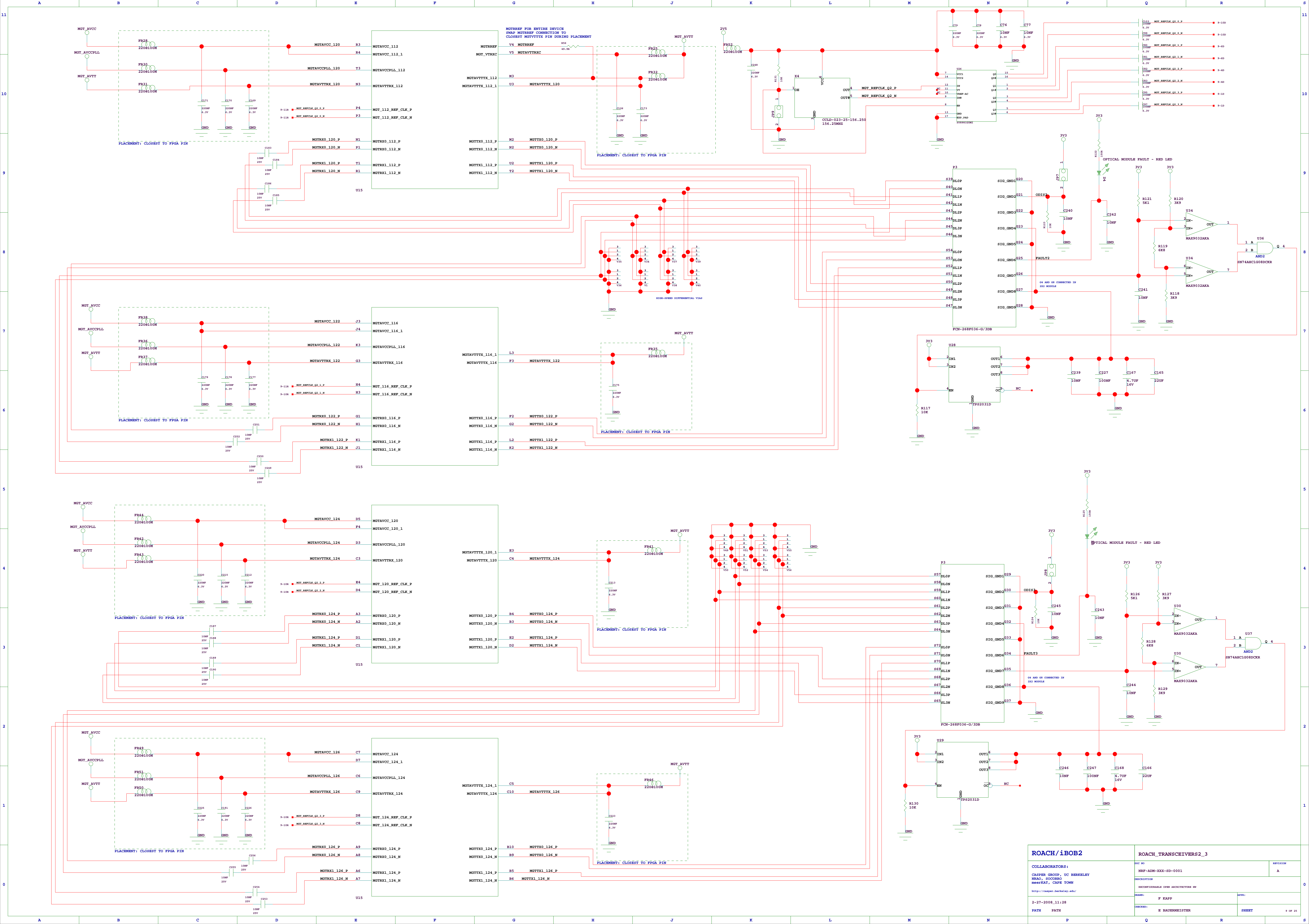


ROACH/iBOB2		ROACH_5V_POWER	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY HEAD, SCORED MEERFAT, CAPE TOWN		HRP-ADM-XXX-SD-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE SW	
http://casper.berkeley.edu/		NAME:	APP:
2-27-2008_11:28		F KAPP	
PATH PATH		CHECKED:	SHEET
		E BAUERHEISTER	4 OF 2

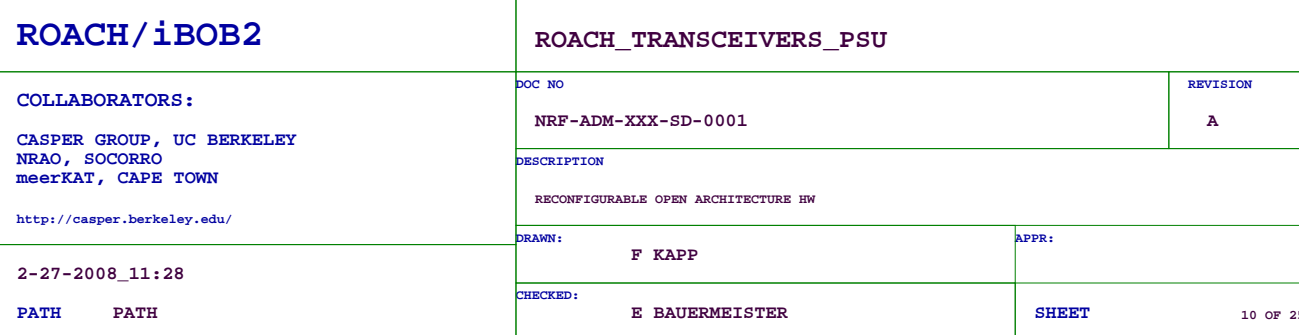
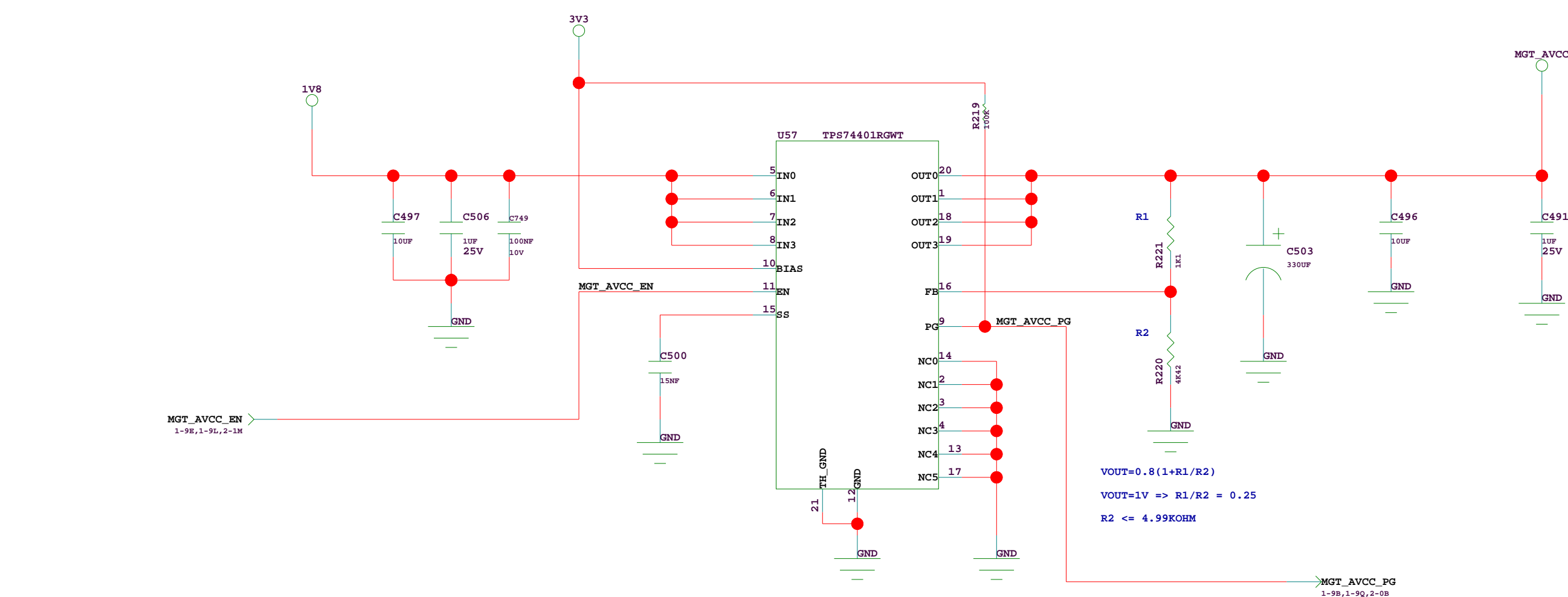


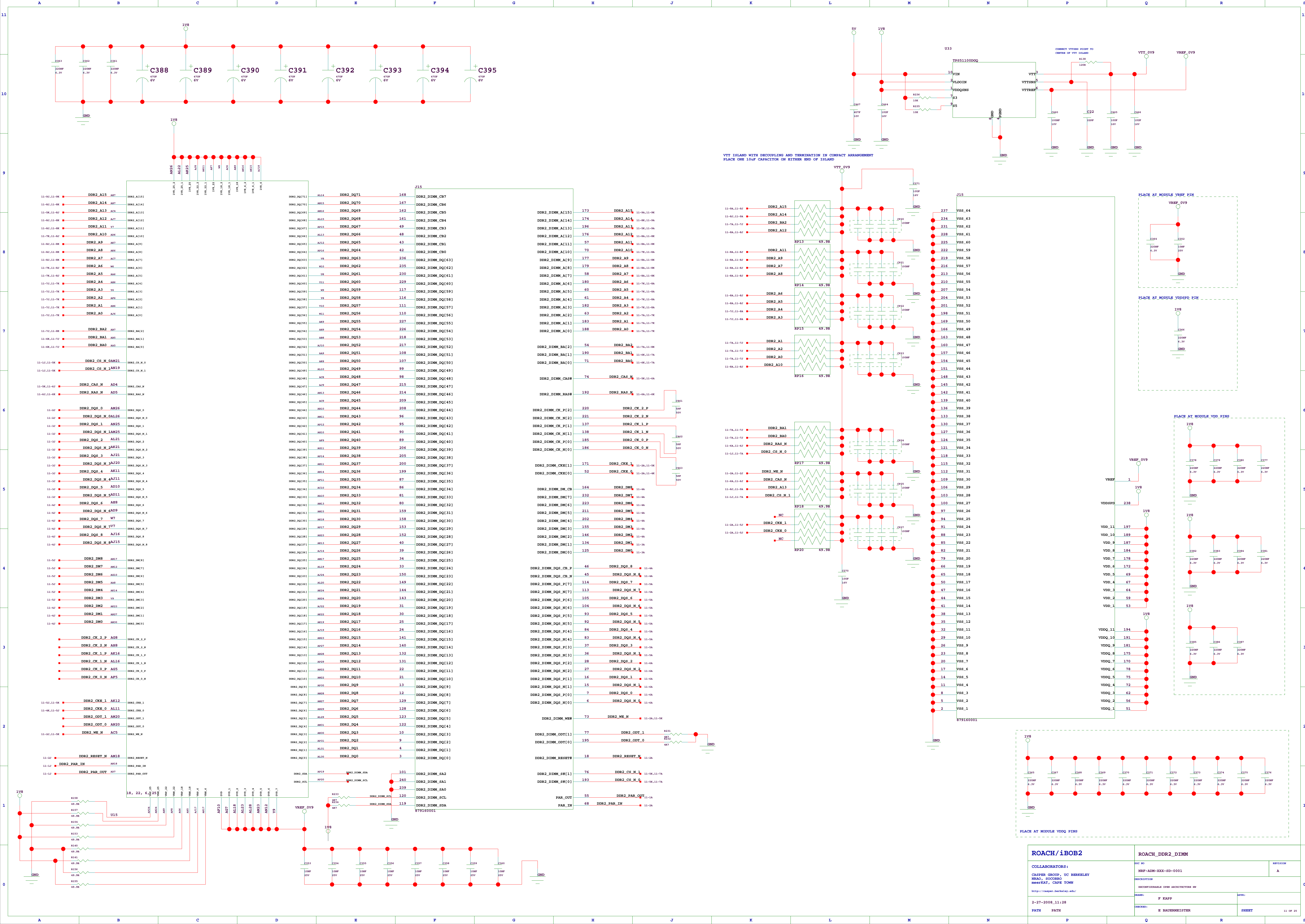


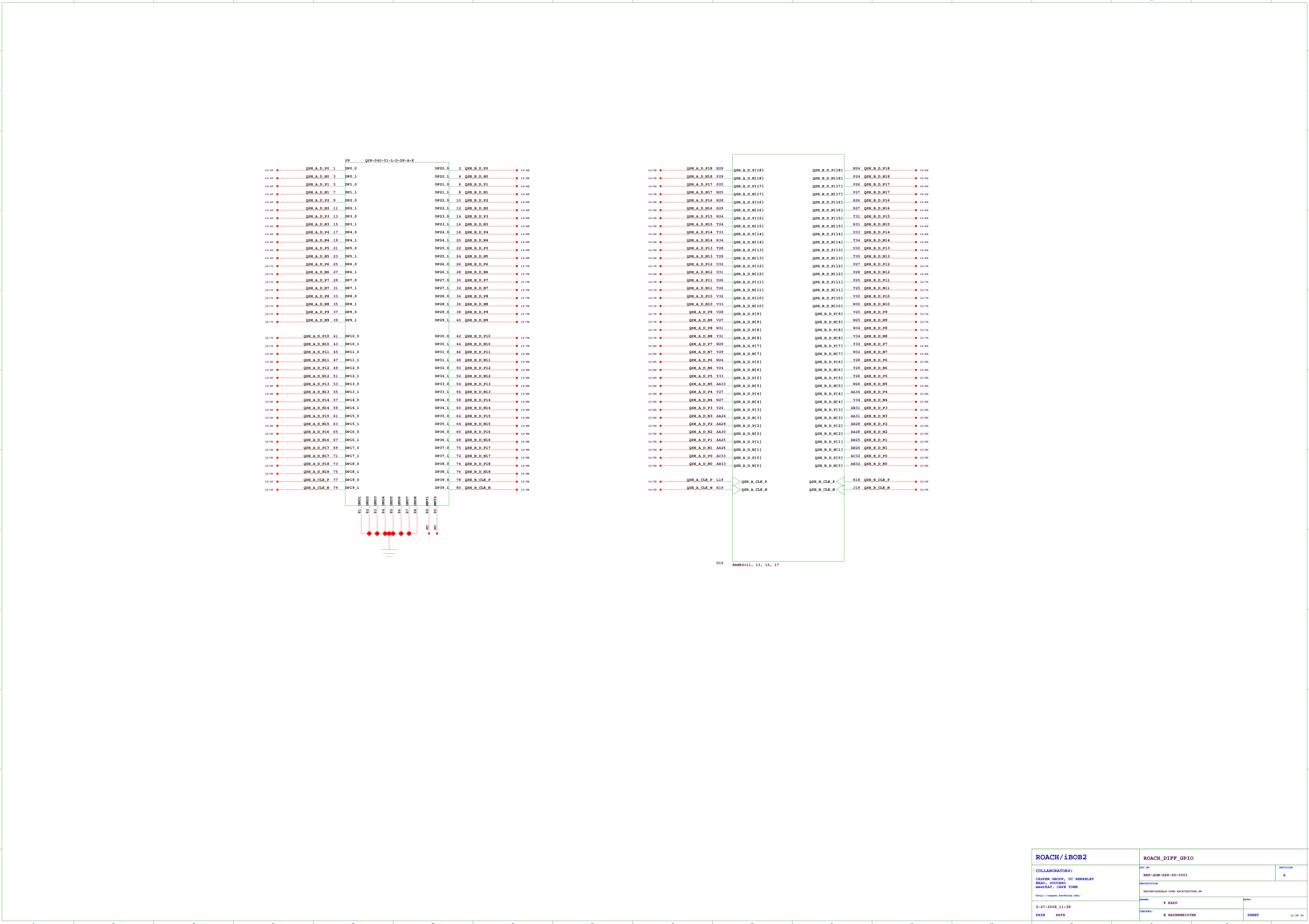




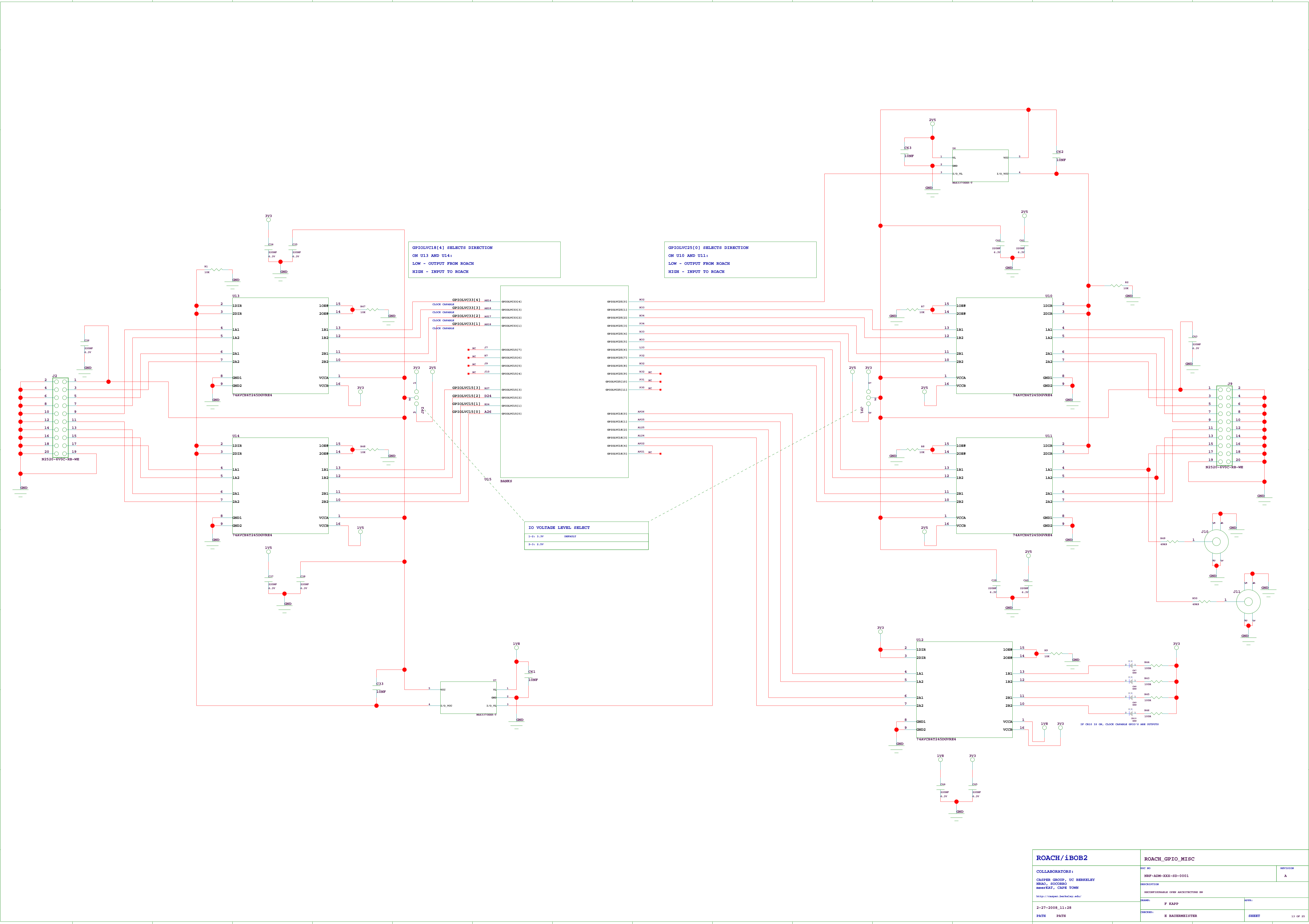
ROACH/iBOE2		ROACH_TRANSCEIVERS2_3	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY HEAD, SCORED BauerFAT, CAPE TOWN		NRK-ADM-XXX-SD-0001	A
DESCRIPTION		RECONFIGURABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		ISSUED:	ISSUE:
2-27-2008.11:28		F KAPP	R BAUERMASTER
PATH PATH		CHECKED:	SHEET
			9 OF 2







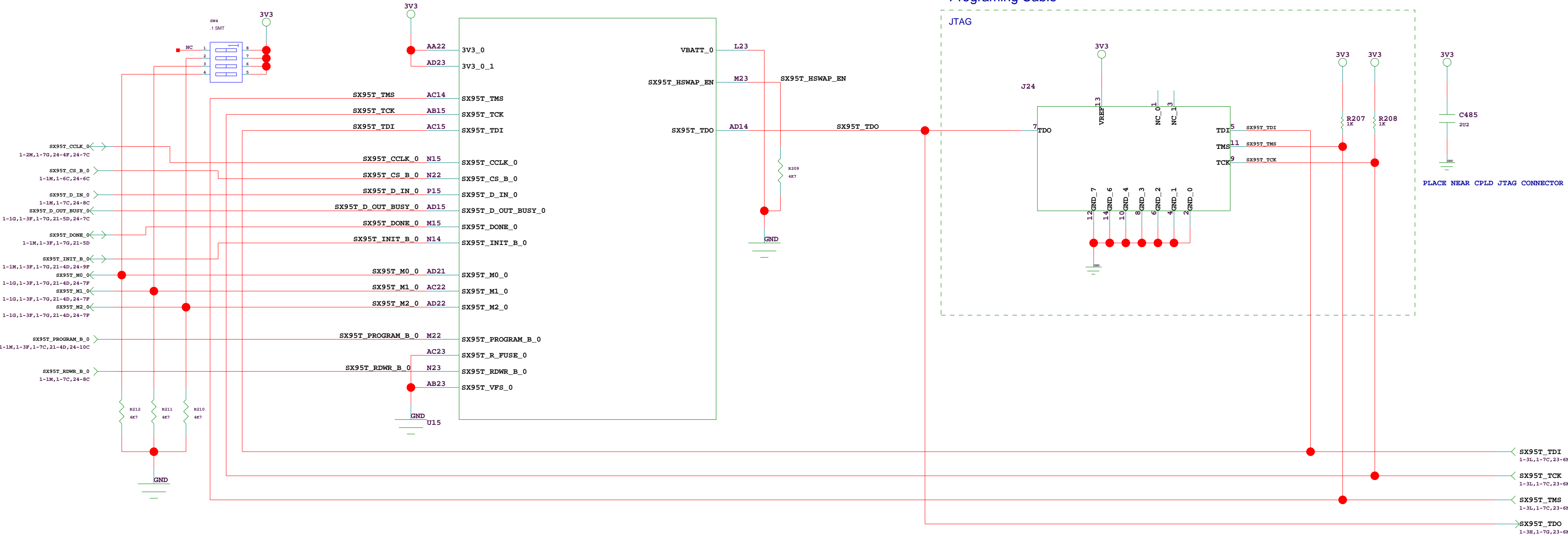
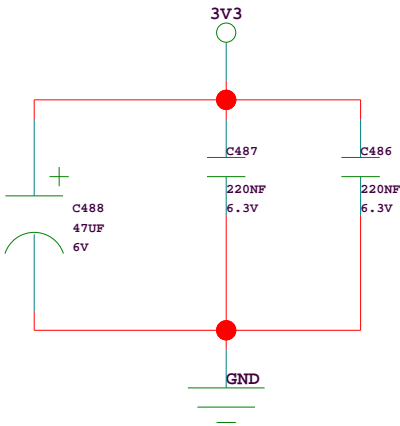
ROACH/iBOE2				ROACH_DIFF_GPIO			
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCCORO BrewKAT, CAPE TOWN http://casper.berkeley.edu/				DOC NO: NRF-ADM-XXX-BD-0001		REVISION: A	
				DESCRIPTION: RECONFIGURABLE OPEN ARCHITECTURE HW			
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2-27-2008.11:28				CHECKED: E BAUERMEISTER		SHEET	
PATH		PATH				12 OF 25	



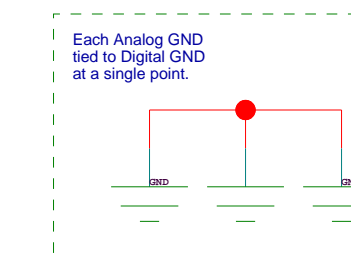
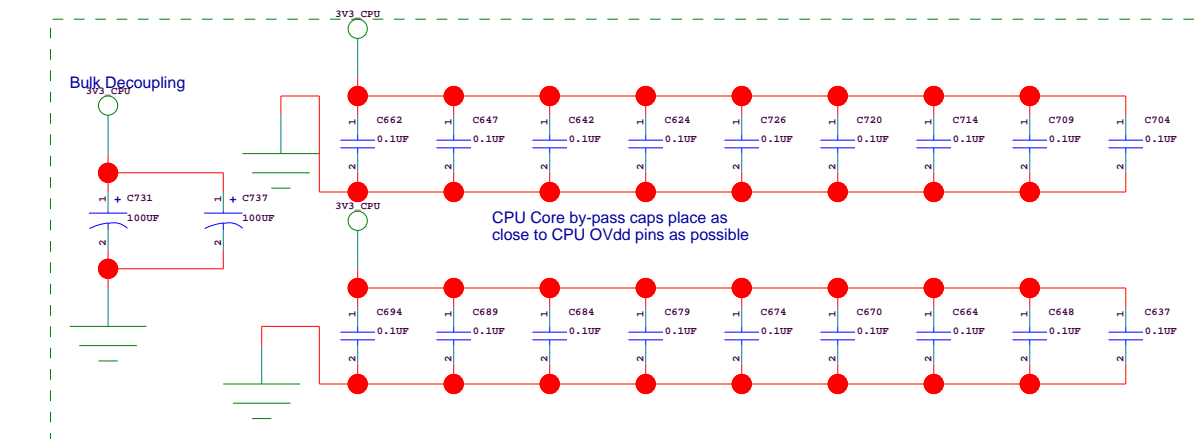
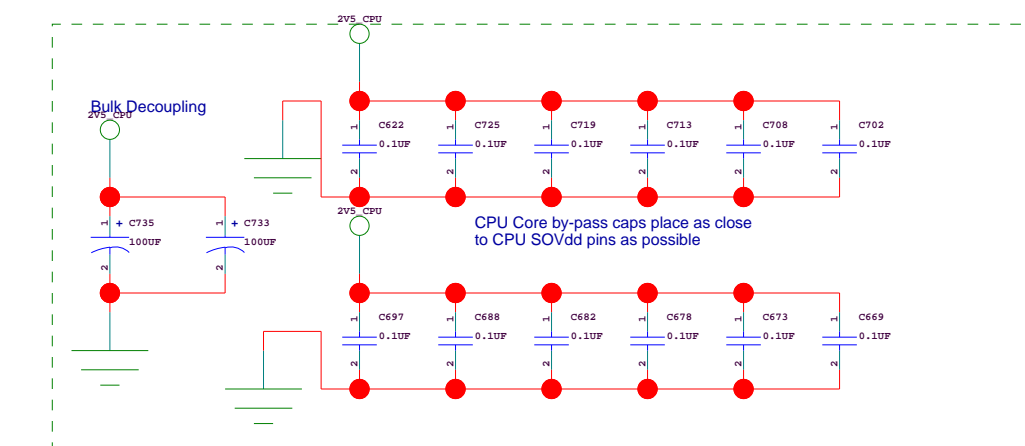
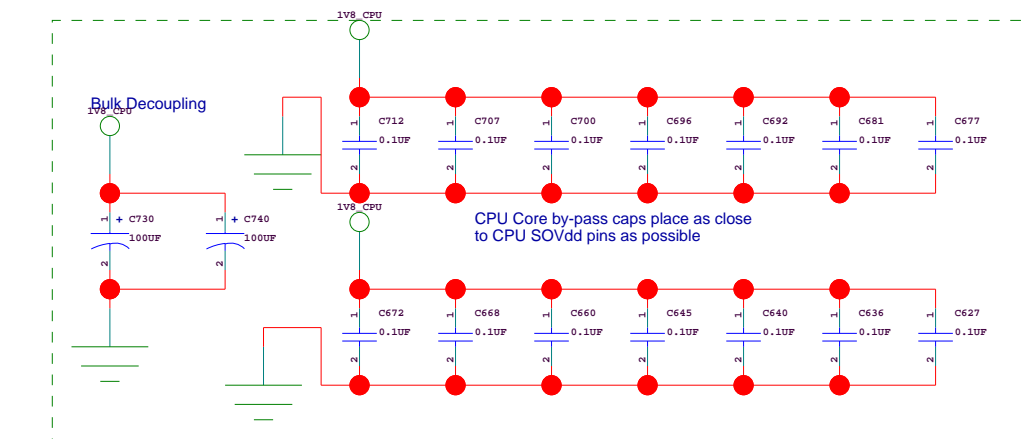
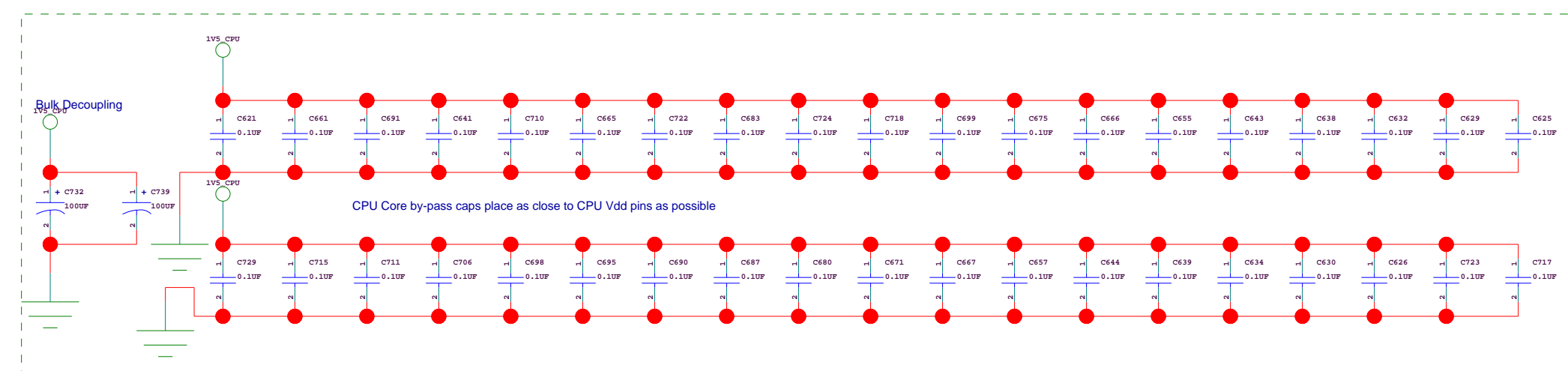
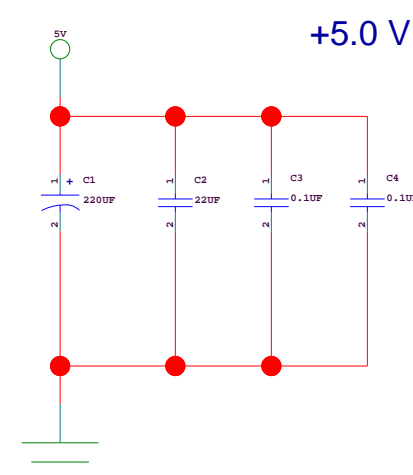
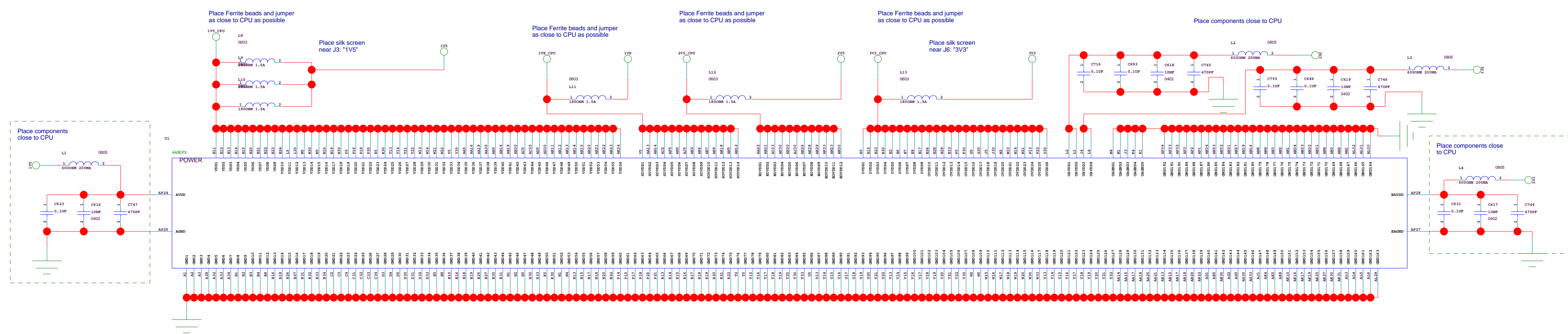
ROACH/iBOE2		ROACH_GPIO_MISC	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-BD-0001	A
DESCRIPTION			
NRAO, SOCCORRO			
MesaCAT, CAPE TOWN			
RECONFIGURABLE OPEN ARCHITECTURE HW			
http://casper.berkeley.edu/		DRWN:	APP:
2-27-2008, 11:28		F KAPP	
PATH	PATH	R BAUERMISTROT	
		CHECKED:	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/ 2-27-2008_11:28 PATH PATH	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	DRAWN: F KAPP	APPR:	
	CHECKED: E BAUERMEISTER	SHEET 16 OF 25	

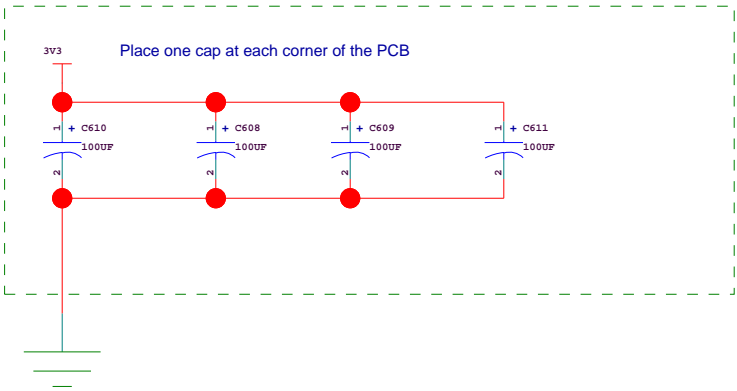


REMOVED 1.8V AND 1.5V REGULATORS, CONNECTED TO V5 RAILS

REMOVED VTT AND VREF - INCLUDED ON ROACH_PPC_DDR2

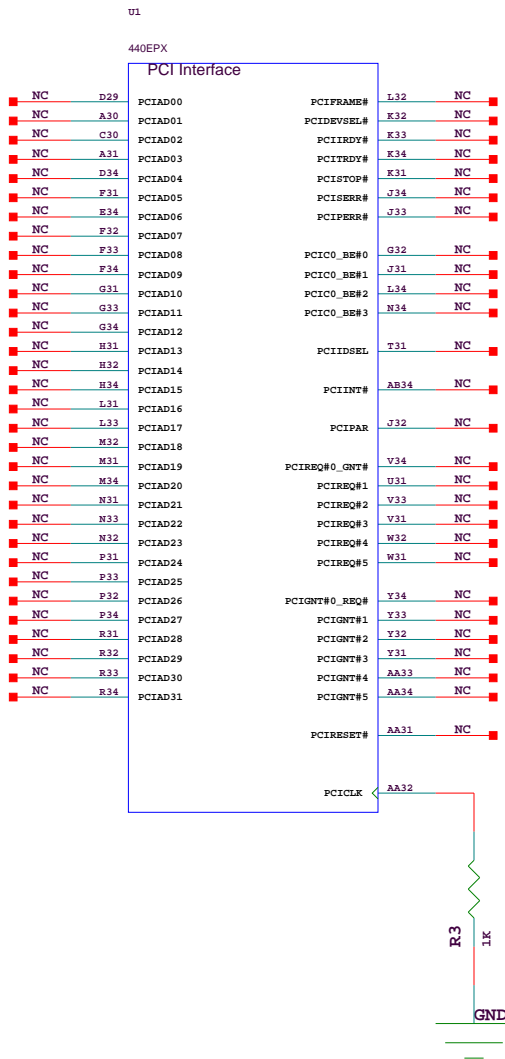
ROACH/iBOB2		ROACH_PPC_POWER_1	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRC, COORDINATED MEETKAT, CAPE TOWN http://casper.berkeley.edu/		SOC NO NRP-ADM-XXX-SD-0001 DESCRIPTION RECONFIGURATION OPEN ARCHITECTURE HW	REVISION A
2-27-2008 11:28		DESIGNS: F KAPP	APPS:
PATH	PATH	CHECKED: E BAUERMEISTER	SHHRT 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

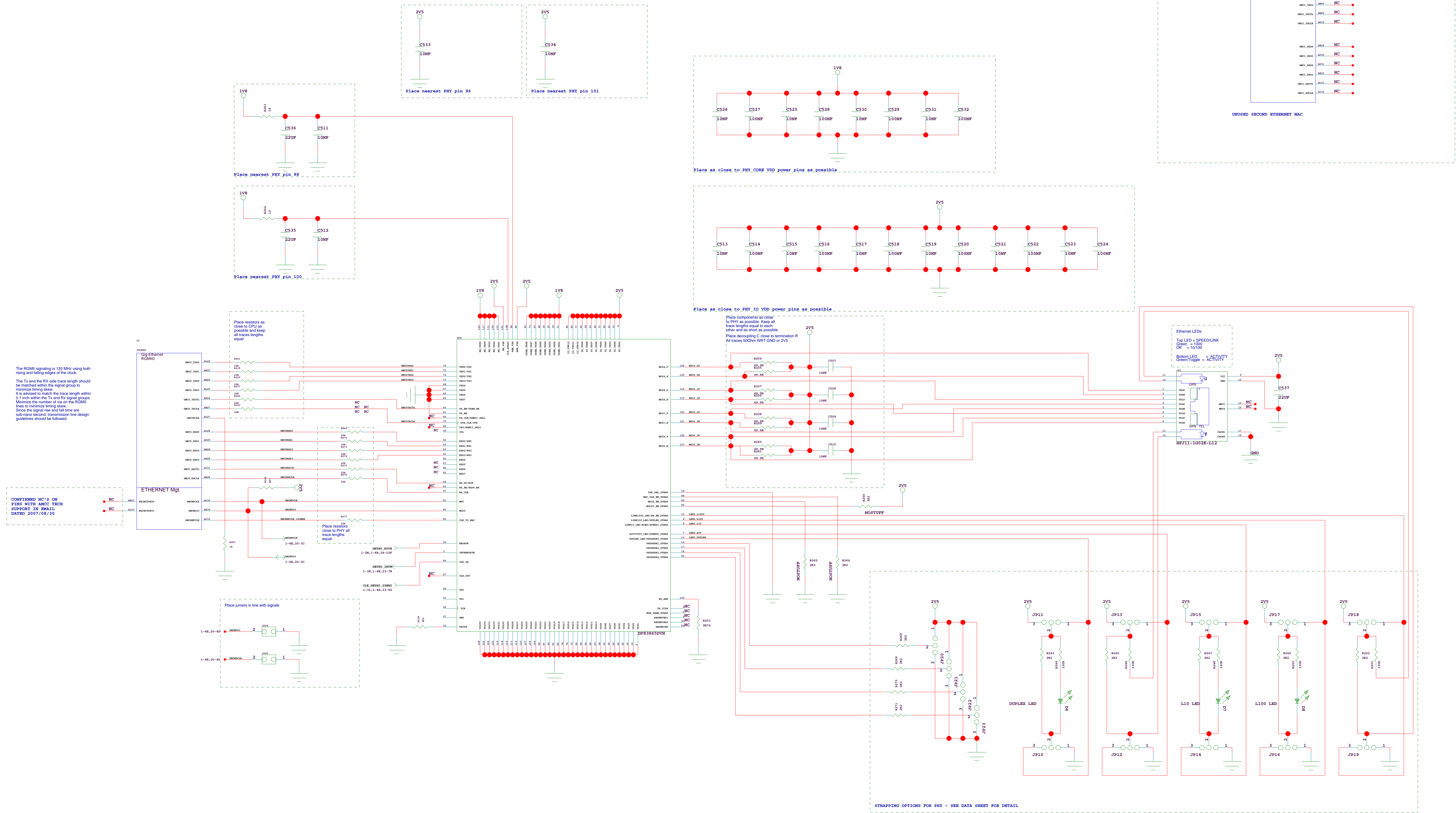


ROACH/iBOB2	ROACH_PPC_POWER_2	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001	REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW	
	DRAWN: 2-27-2008_11:28 F KAPP	APPR: E BAUERMEISTER
PATH	PATH	SHEET 18 OF 25

PCI BUS NOT IMPLEMENTED

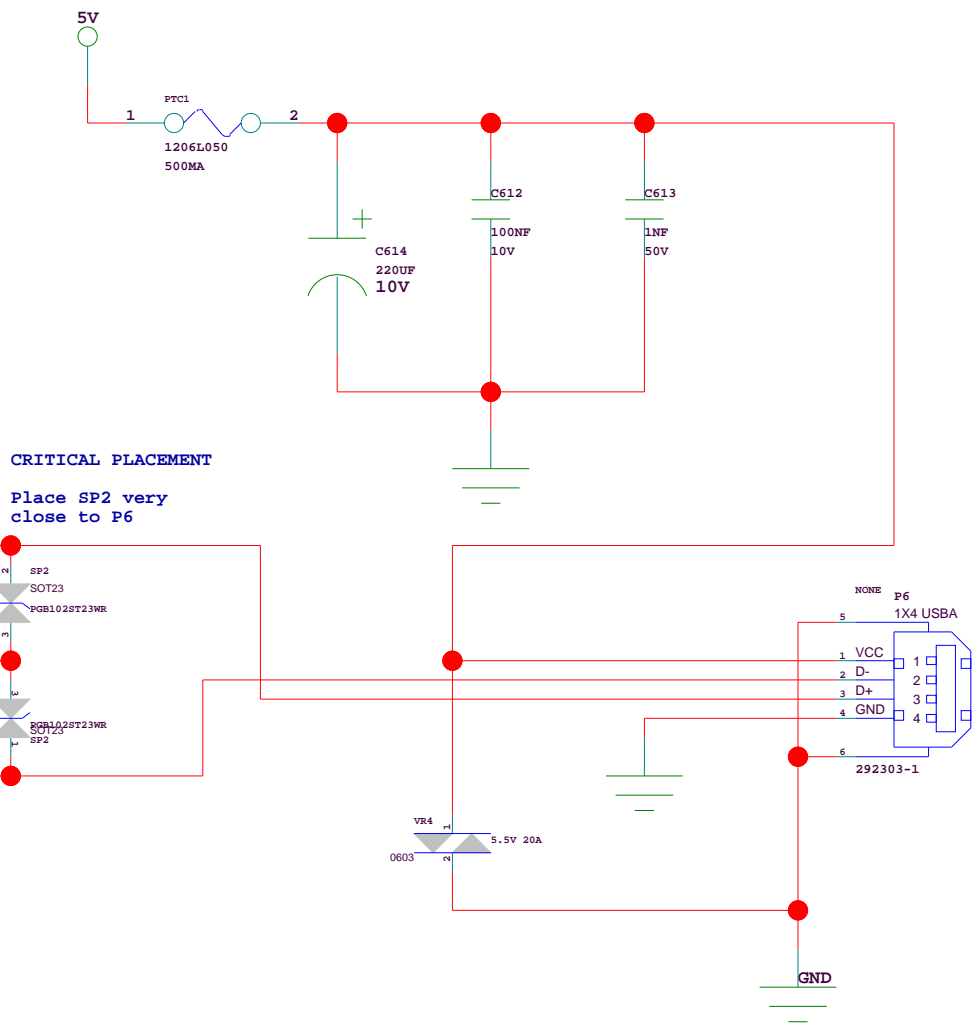
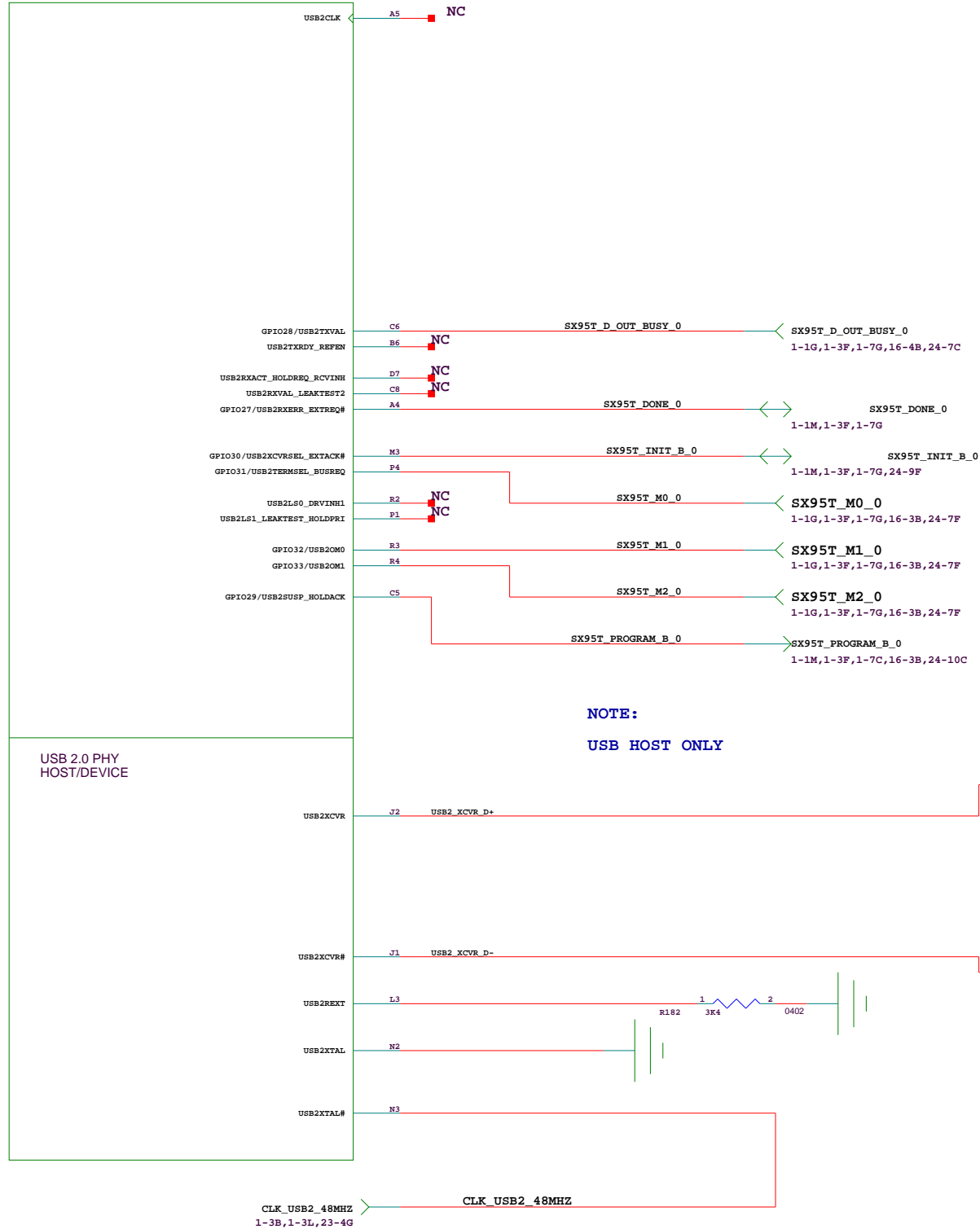


ROACH/iBOB2		ROACH_PPC_PCI	
COLLABORATORS: CASPER GROUP, UC BERKELEY NRAO, SOCCORRO meerKAT, CAPE TOWN http://casper.berkeley.edu/	DOC NO NRF-ADM-XXX-SD-0001		REVISION A
	DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW		
	2-27-2008_11:28	DRAWN: F KAPP	APPR:
PATH	PATH	CHECKED: E BAUERMEISTER	SHEET 19 OF 25



ROACH/iBOB2		ROACH_PPC_ETH1	
COLLABORATORS:		DOC NO	REVISION
CASPER GROUP, UC BERKELEY		NRF-ADM-XXX-SD-0001	A
HRAU, FORDHO		DESCRIPTION	
MEERKAT, CAPE TOWN		RECOMMENDABLE OPEN ARCHITECTURE HW	
http://casper.berkeley.edu/		NAME:	NAME:
2-27-2008_11:28		F KAPP	
PATH PATH		CHECKED:	SHEET
		E BAUERKRITTER	20 OF 2

U1
USB 2.0 DEVICE
40EPA



ROACH/iBOB2

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

2-27-2008_11:28
PATH PATH

ROACH_PPC_USB

DOC NO
NRF-ADM-XXX-SD-0001

REVISION
A

DESCRIPTION
RECONFIGURABLE OPEN ARCHITECTURE HW

DRAWN: F KAPP

APPR:

CHECKED: E BAUERMEISTER

SHEET

