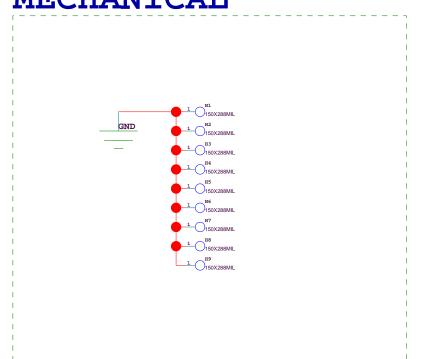
VIRTEX5 PPC_RESET SYS_CONFIG[0:7] ROACH_V5_CLK 1-2G,15-6B,22-2R ROACH_TRANSCEIVERS2_3 SX95T_DXN SX95T_DXP MONITOR_INT I2C0_33_DATA PS_ON# PS_ON# PS_ON# 1-3L,22-4L,23-6H ROACH_DDR2_DIMM 1-3H,22-1P,23-7M I2C0_SCLK FAN2_SENSE FAN1_SENSE 1-8B,14-8G,22-8B FAN3_SENSE FAN1_CONTROL LOAD_RES_OFF 3V3_ATX 12V5 11V8 11V5 1-8B,14-10B,22-3M 1-8B,14-5B,22-6B 2V5_TRACK 2V5_INHIBIT 2N3_CONTRACK 1-8E,14-2R,22-2B 1-8B,14-3B,22-6B VIRTEX5 CLOCKS ZV5_INHIBIT FAN3_CONTROL FAN2_CONTROL MGT_AVTTX_EN MGT_AVCCPLL_EN MGT_AVCC_EN LV8_INHIBIT MGT_AVCC_EN LV8_INHIBIT MGT_AVCC_EN LV8_INHIBIT MGT_AVCC_EN LV8_INHIBIT MGT_AVCC_EN LV8_INHIBIT 1-8E,14-10R,22-1B 1-8E,14-7C,22-4A 1-9Q,17-7P,22-0B 1-9Q,17-4G,22-0B 1-8E,14-7C,22-8B 1-8E,14-7C,22-8B 1-8E,14-6C,22-6B 1-8E,14-6C,22-6B 1-8B,14-9B,22-2M 1-8B,14-10B,22-2M 1-8L,17-5B,22-1M ROACH_TRANSCEIVERS_PSU 5V_ATX 1-9E,17-8K,22-1M 1-9E,17-8B,22-1M 1-9E,17-5B,22-1M MGT_AVCCPLL_EN MGT_AVTTX_EN MGT_AVCC_PG MGT_AVTTX_PG MGT_AVTTX_PG MGT_AVCCPLL_PG MGT_AVCC_PG MGT_AVTTX_PG MGT_AVCCPLL_PG 1-9L,17-8B,22-1M MGT_AVCC_EN 1-9B,17-7P,22-0B ROACH_ADC_0 1-9L,17-8K,22-1M 1-9B,17-4G,22-0B 1V8_INHIBIT 1V8_INHIBIT V5 DDR2 MEMORY MGT_AVTTX_EN MGT_AVCCPLL_PG 1-8B,17-7G,22-0B 1-8B,14-1J,22-1B PWR_OK ---12V_ATX 1V5_INHIBIT 1V5_INHIBIT 1-8B,14-4J,22-1B 1V0_INHIBIT 1V0_INHIBIT 1-8B,14-9J,22-0B -----_____ GIGABIT TRANSCEIVERS ROACH_PSU ROACH_DIFF_GPIO 1-9E,14-5B,22-6B 1-9E,14-10B,22-3M 1-9E,14-8G,22-8B 1-9E,14-10B,22-2M 1-9E,14-9B,22-2M 1-9E,14-9B,22-2M LOAD_RES_OFF FAN1_CONTROL PS_ON# 3V3_ATX 5V_ATX 1-9B,14-7C,22-4A FAN2_CONTROL FAN3_CONTROL 1-8B,14-7C,22-8B ROACH_ADC_1 ROACH_QDR2P_BY0_3 1-8E,14-9J,22-0B 1-8E,14-4J,22-1B 1-8E,14-1J,22-1B 1-9E,14-3B,22-6B 1-9E,14-1B,22-1B 1-9E,14-1B,22-1B QDR2_TDI QDR2_TCK QDR2_TMS 1V0_INHIBIT 1V5_INHIBIT QDR2_BY0_1_TDO QDR2_BY0_1_TDO 1-9B,14-9B,22-1M 1V8_INHIBIT 2V5_TRACK 1-9B,14-10R,22-1B 1-9B,14-5R,22-2B I1V0 I1V5 I1V8 I2V5 2V5_INHIBIT 1-9B,14-2R,22-2B V5 DIFFERENTIAL GPIO ROACH_QDR2P_BY2_3 QDR2_BY0_1_TDO QDR2_TMS QDR2_BY2_3_TDO POWER SUPPLY AND MONITORING ZDOK/ADC INTERFACE _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ , _____ ROACH_GPIO_MISC ROACH_5V_POWER 1-1G,1-3F,8-4D,15-7F,16-3B 1-1G,1-3F,8-4D,15-7F,16-3B QDRII+ MEMORY \$\frac{1-1\text{M},15-7C,16-4A}{1-3\text{L},16-2\text{L},23-6M}\$\$\frac{3\text{X95T}}{3\text{TCK}}\$\$\frac{1\text{TCK}}{3\text{Sy5T}}\$\$\frac{1\text{TCK}}{1\text{TCK}}\$\$\frac{3\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{X95T}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{X95T}}\$\$\frac{5\text{TDI}}{3\text{Sy5T}}\$\frac{5\text{TDI}}{3\text{Sy5T}}\$\$\frac{5\text{TDI}}{3\text{Sy5T}}\$\$\frac{5\text{TDI}}{3\text{Sy5T}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{3\text{TDI}}\$\$\frac{5\text{TDI}}{ SX95T_M0_0 SX95T_M0_0 1-1G,1-3F,8-4D,15-7F,16-3B SX95T_DONE_0 SX95T_TCK 1-1M,1-3F,8-5D,15-10C SX95T_TMS SX95T_TDI 1-2M,15-4F,15-7C 1-1G,1-3F,8-5D,15-7C,16-4B SX95T_RDWR_B_0 SX95T_PROGRAM_B_0 1-1M,1-3F,8-4D,15-9F __SX95T_CS_B_0 VIRTEX5 CONFIGURATION V5 SE GPIO & MISCELLANEOUS V5 POWER PPC ROACH_PPC_NVM_SERIAL ROACH_PPC_POWER_1 1-3H,21-8Q,23-7N 1-2G,15-6C,21-7B 1-3L,21-3D,23-7G CLK_UART_11.0592MHZ CLK_UART_11.0592MHZ 1-1G,15-5H,21-3B M66EN 1-2M,15-7C,21-3A EE1 WP 1-2M,15-7C,21-1B STTM AS 21-1B 1-3H,21-2B,23-6M M66EN EE1_WP STTM AS 21-0B ROACH_PPC_POWER_2 1-1G,15-8C,21-5G,21-7B,21-7M,21-10B RESET_POR# FWP#

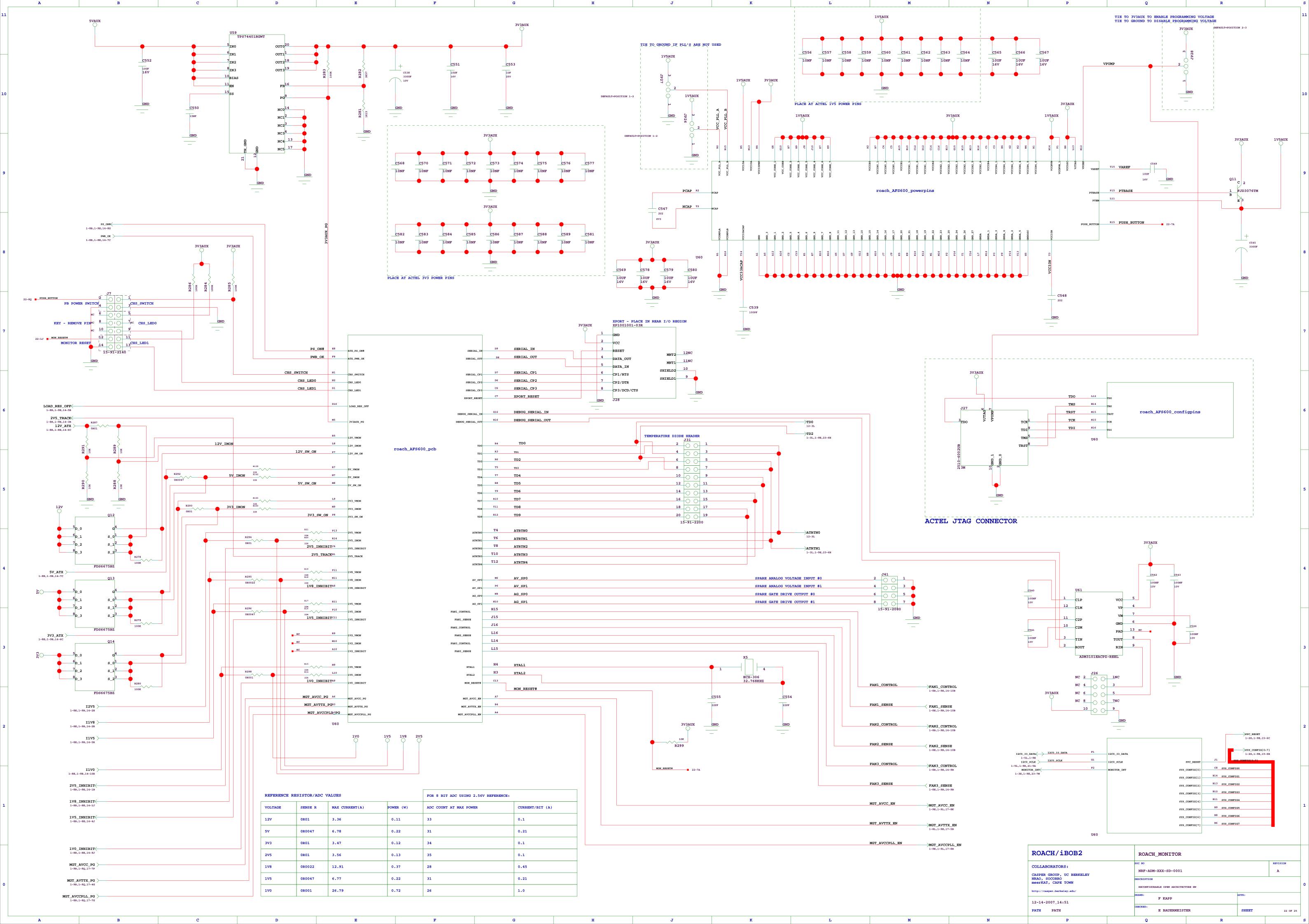


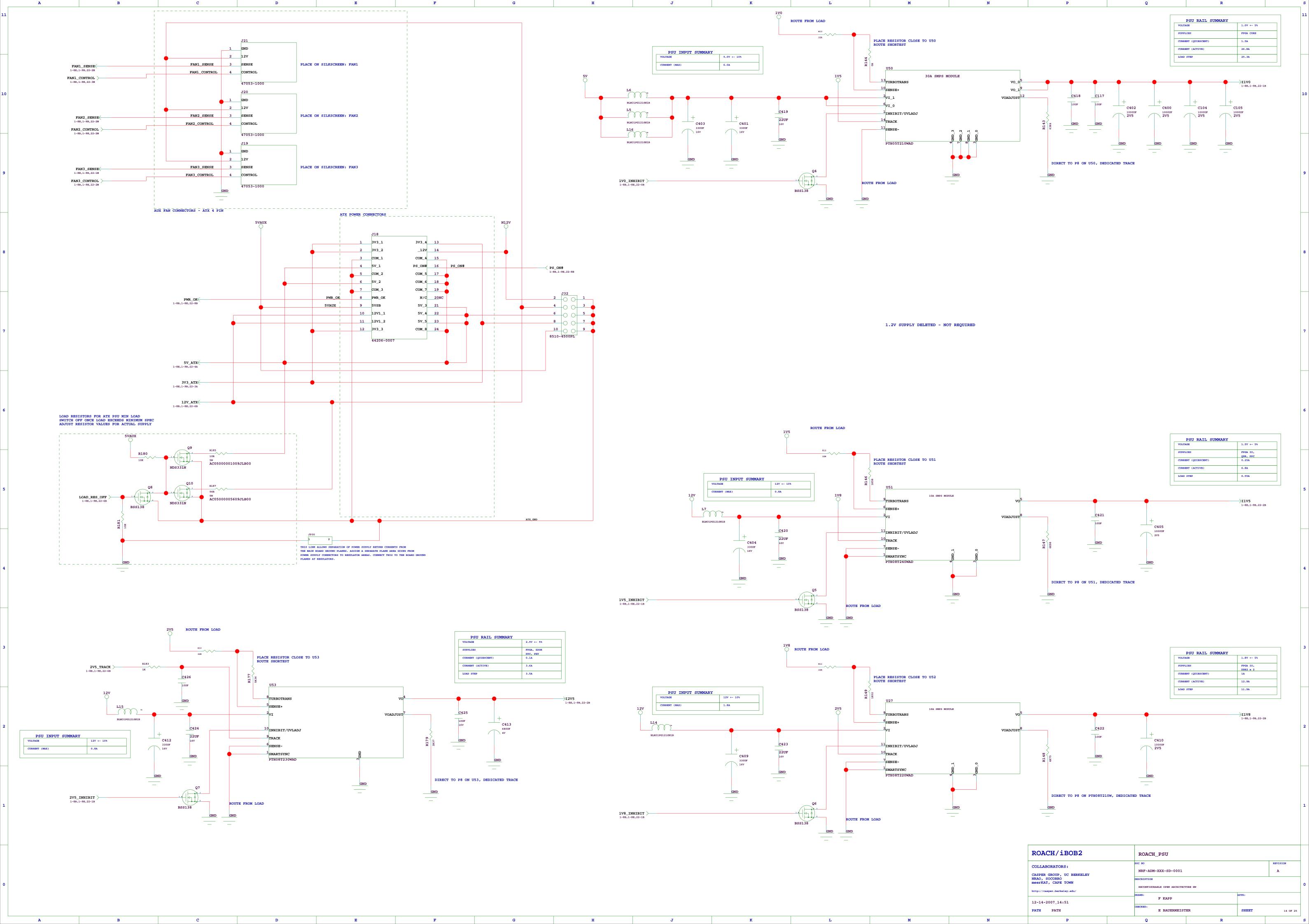


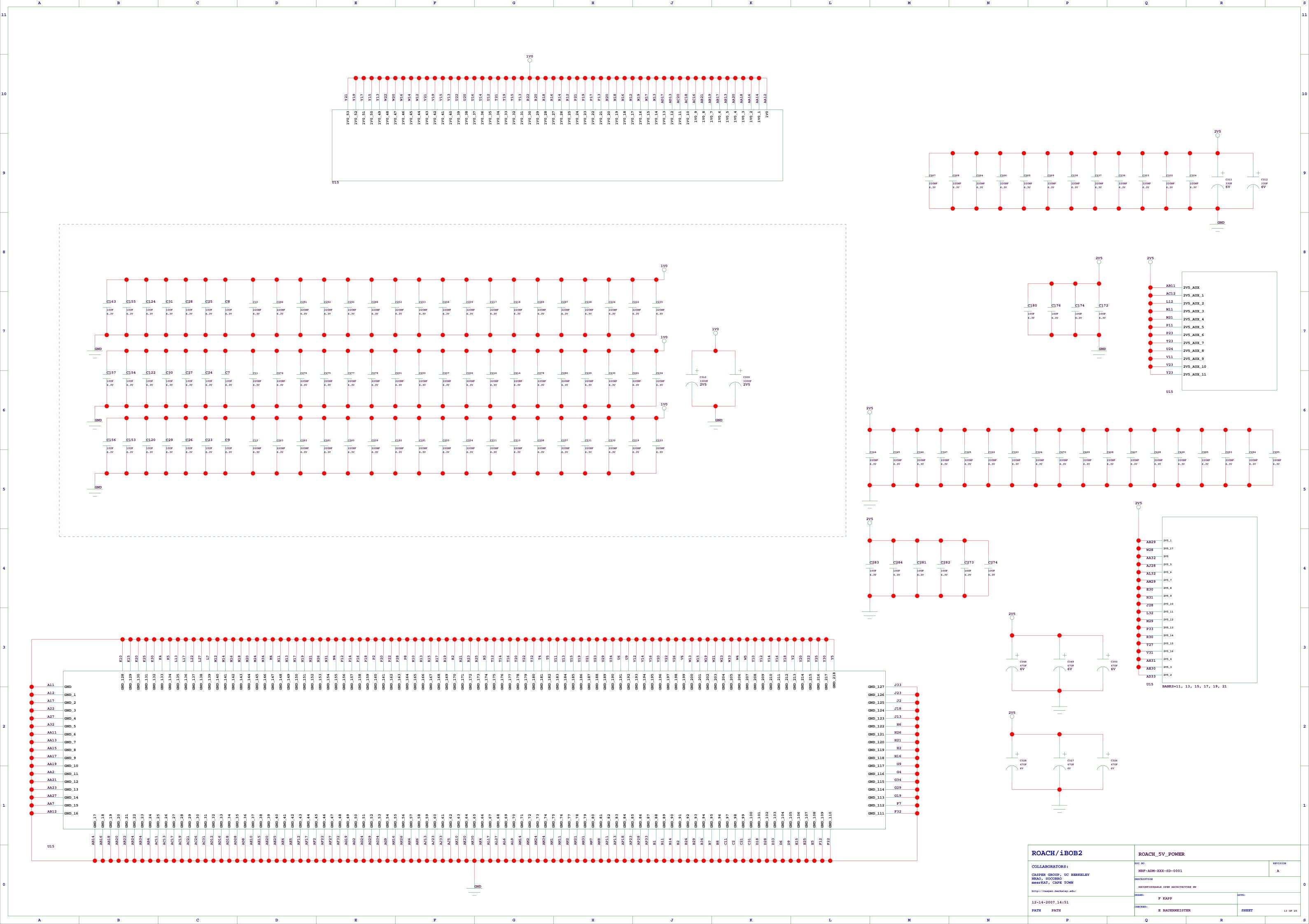
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GEORGE PECK
MIKE REVNELL
HAYDEN SO
DAN WERTHIMER

ROACH/iBOB2	ROACH_TOP	ROACH_TOP				
COLLABORATORS:	DOC NO	DOC NO				
CASPER GROUP, UC BERKELEY NRAO, SOCORRO meerKAT, CAPE TOWN	NRF-ADM-XXX-SD-0001	NRF-ADM-XXX-SD-0001				
	DESCRIPTION					
	RECONFIGURABLE OPEN ARCHITECTURE HW					
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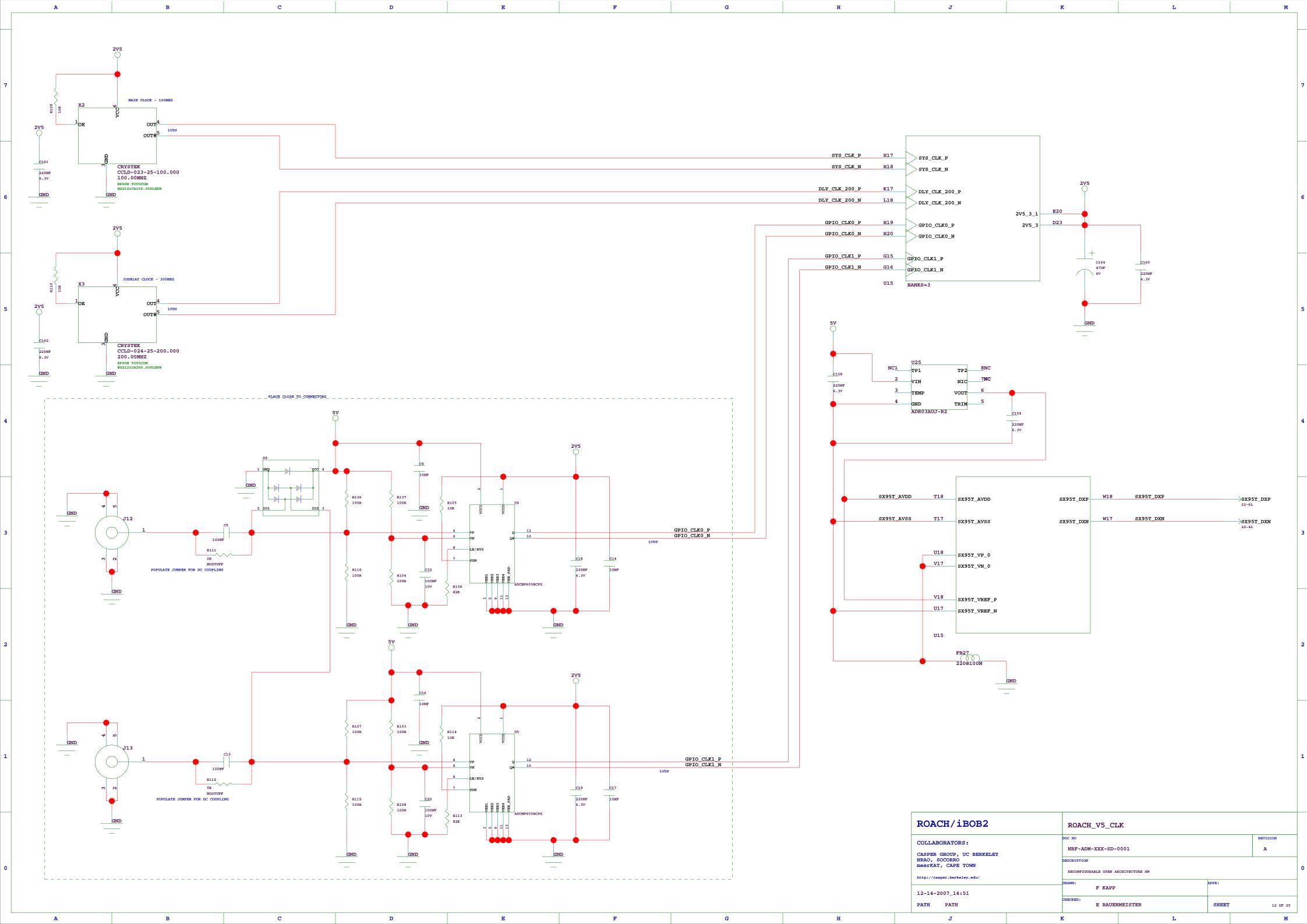


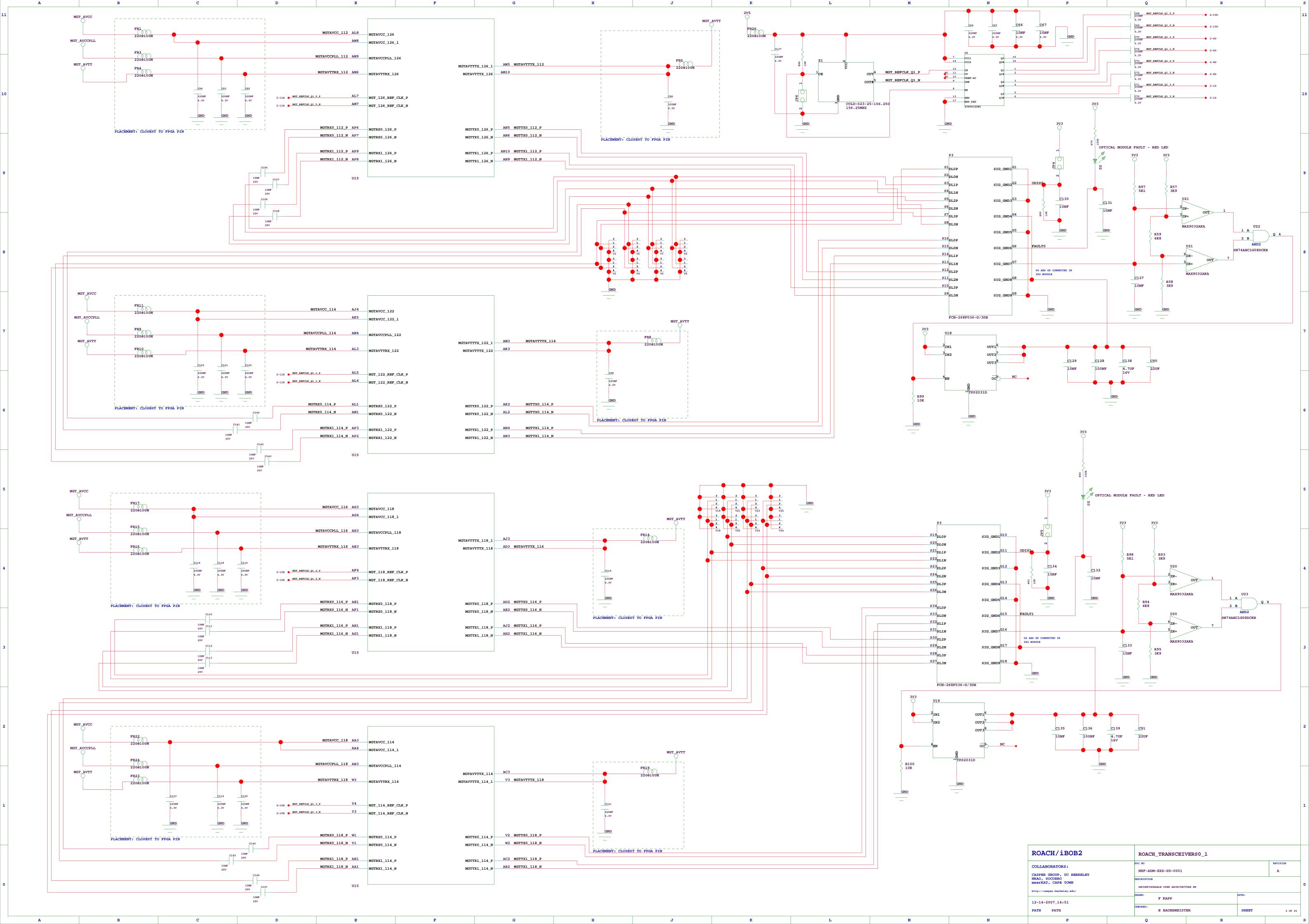


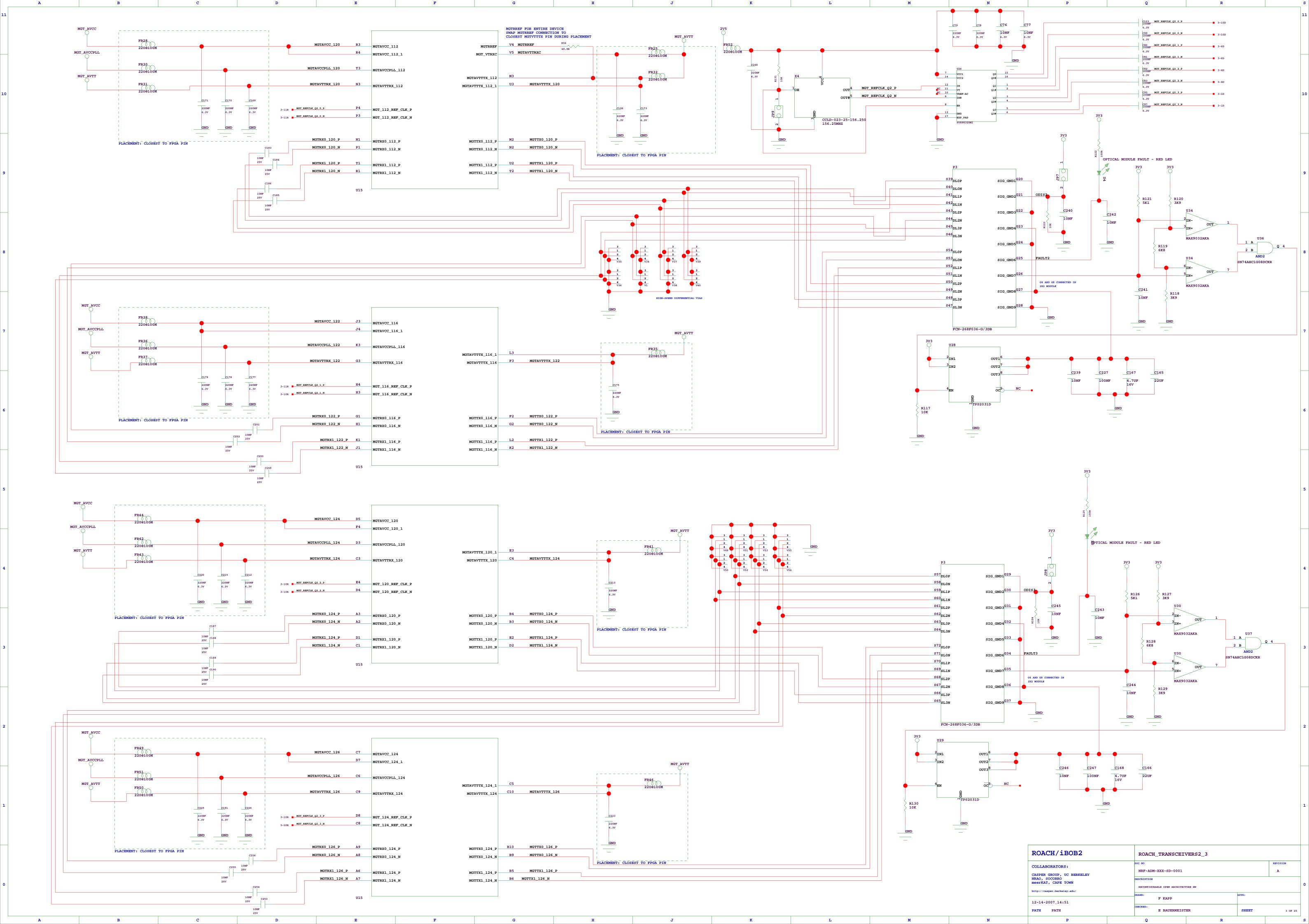


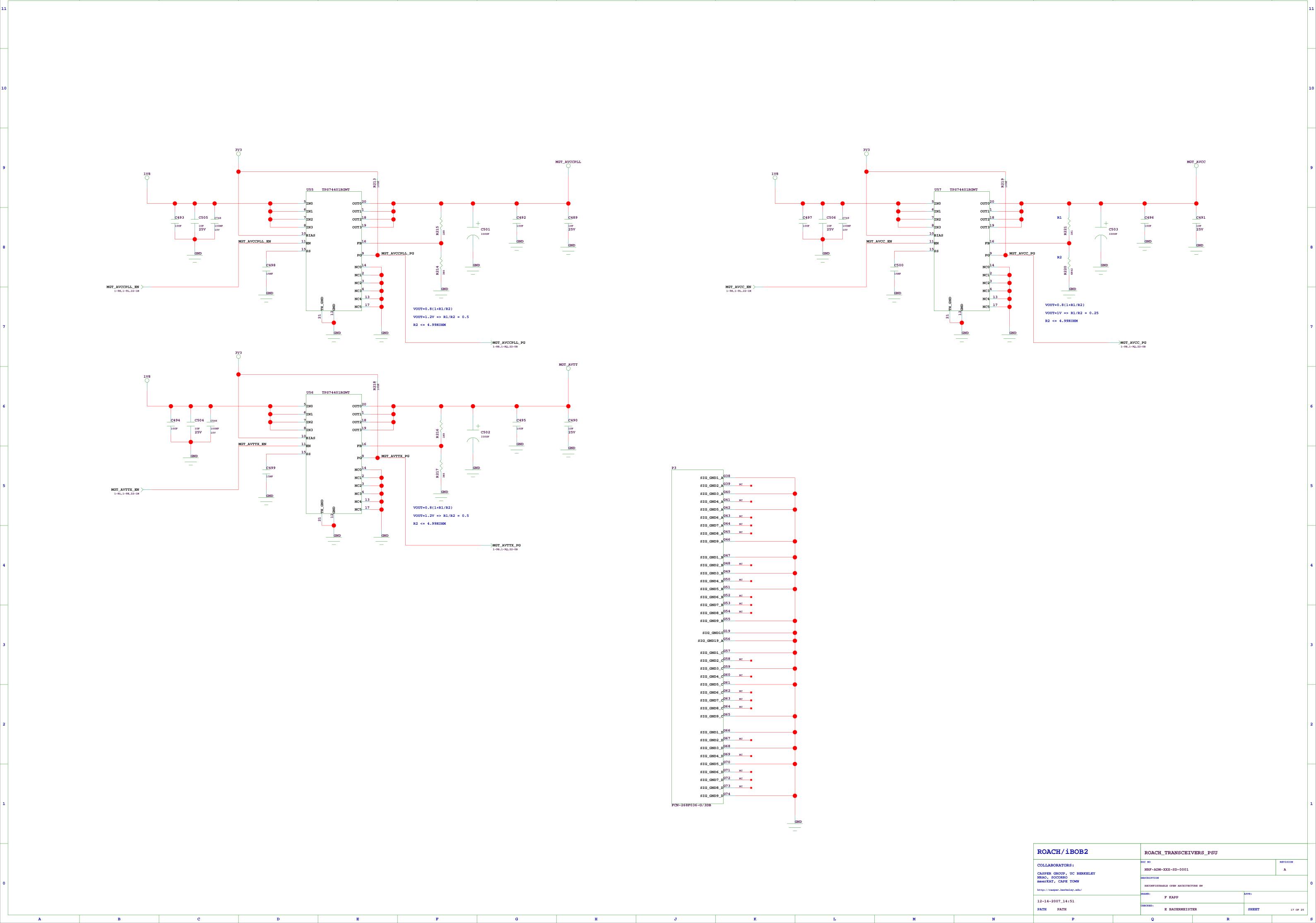


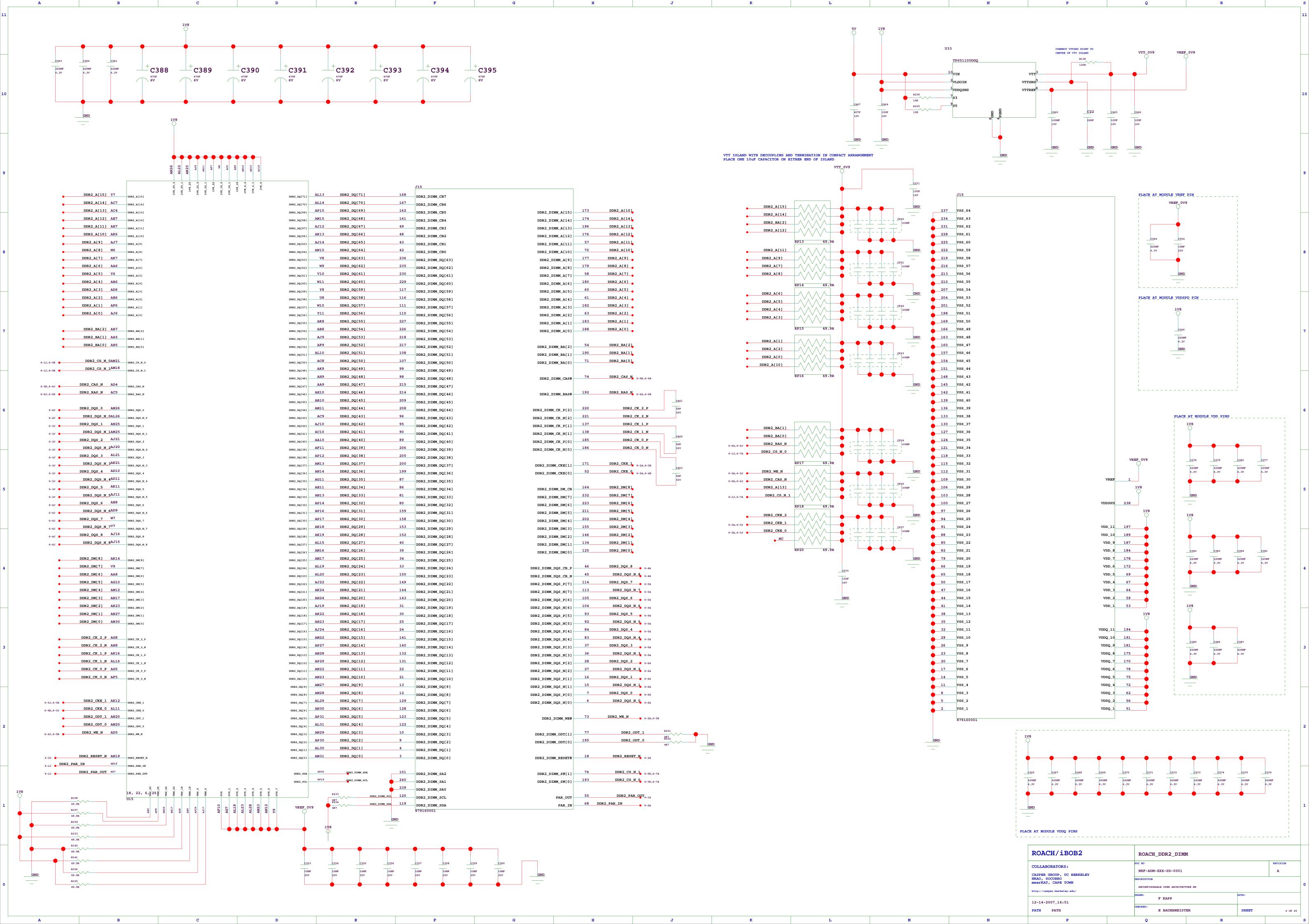


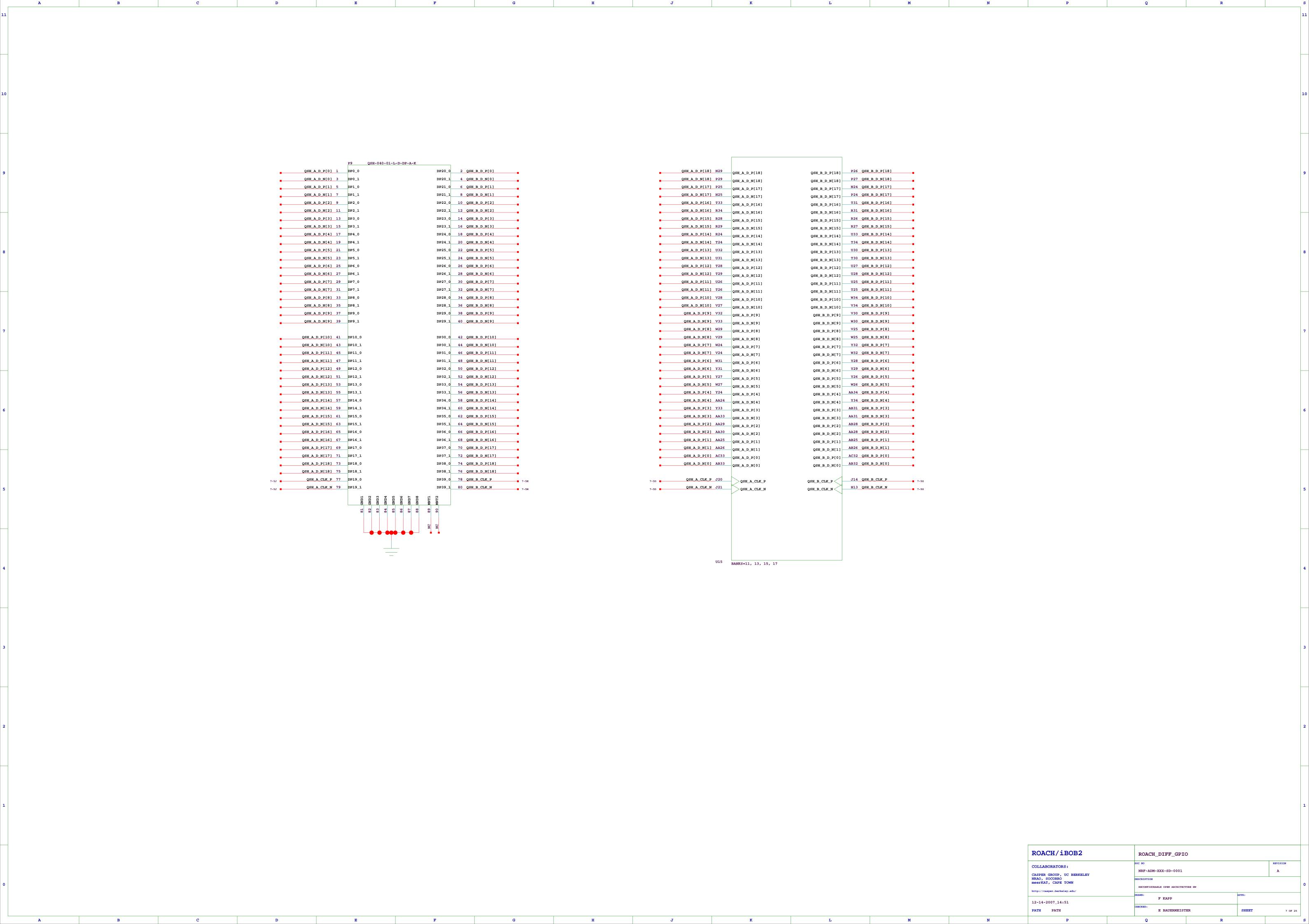


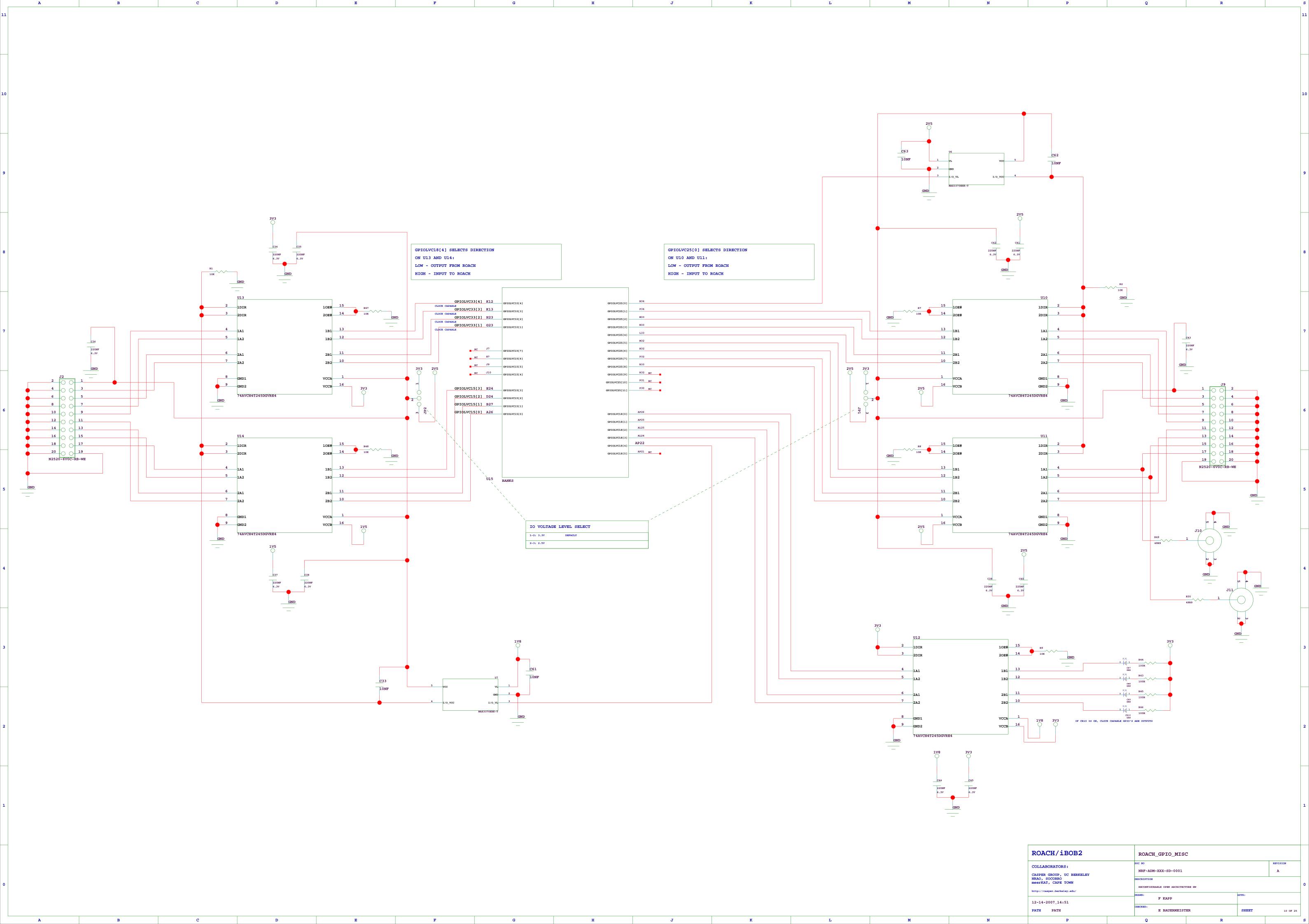


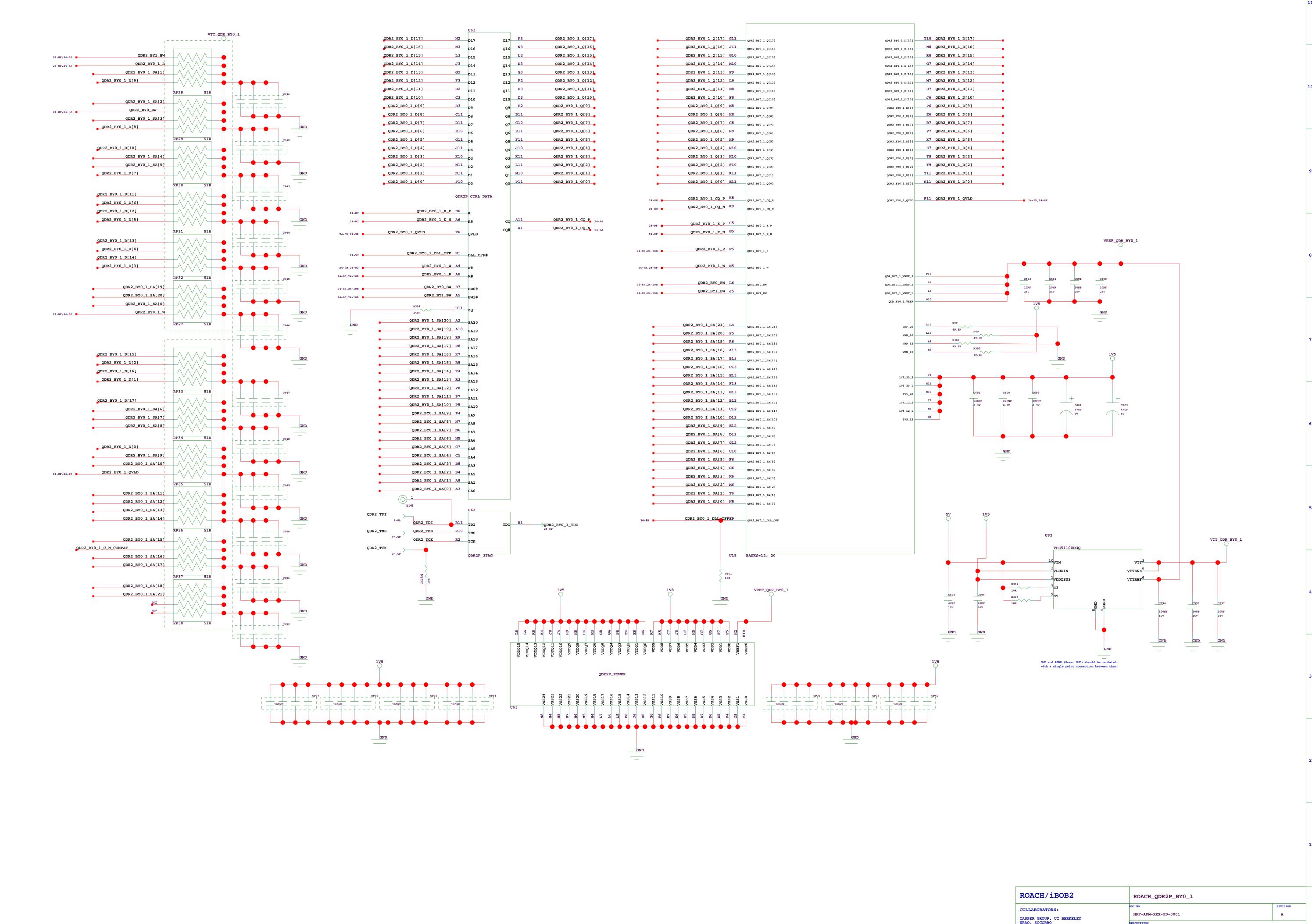


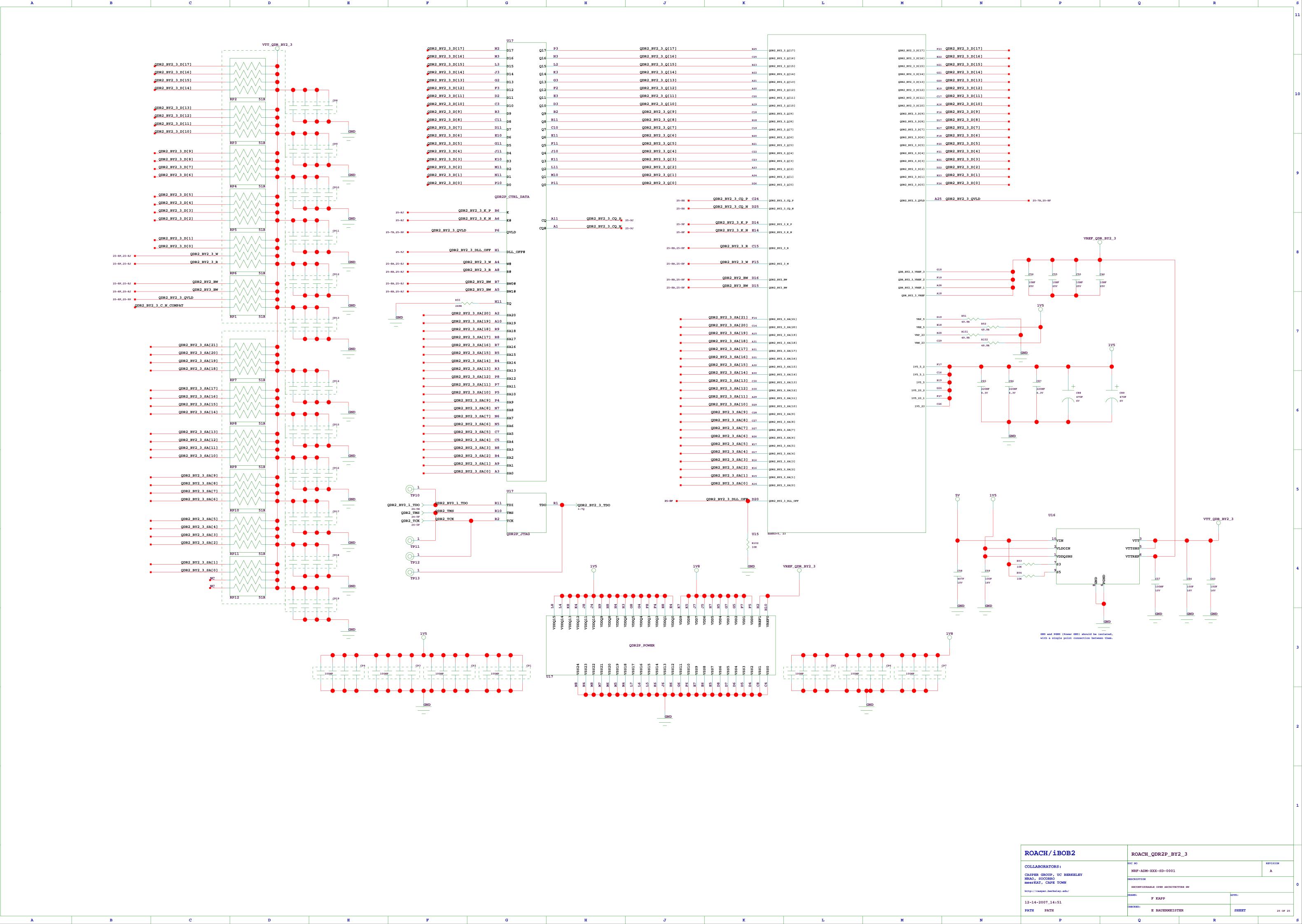


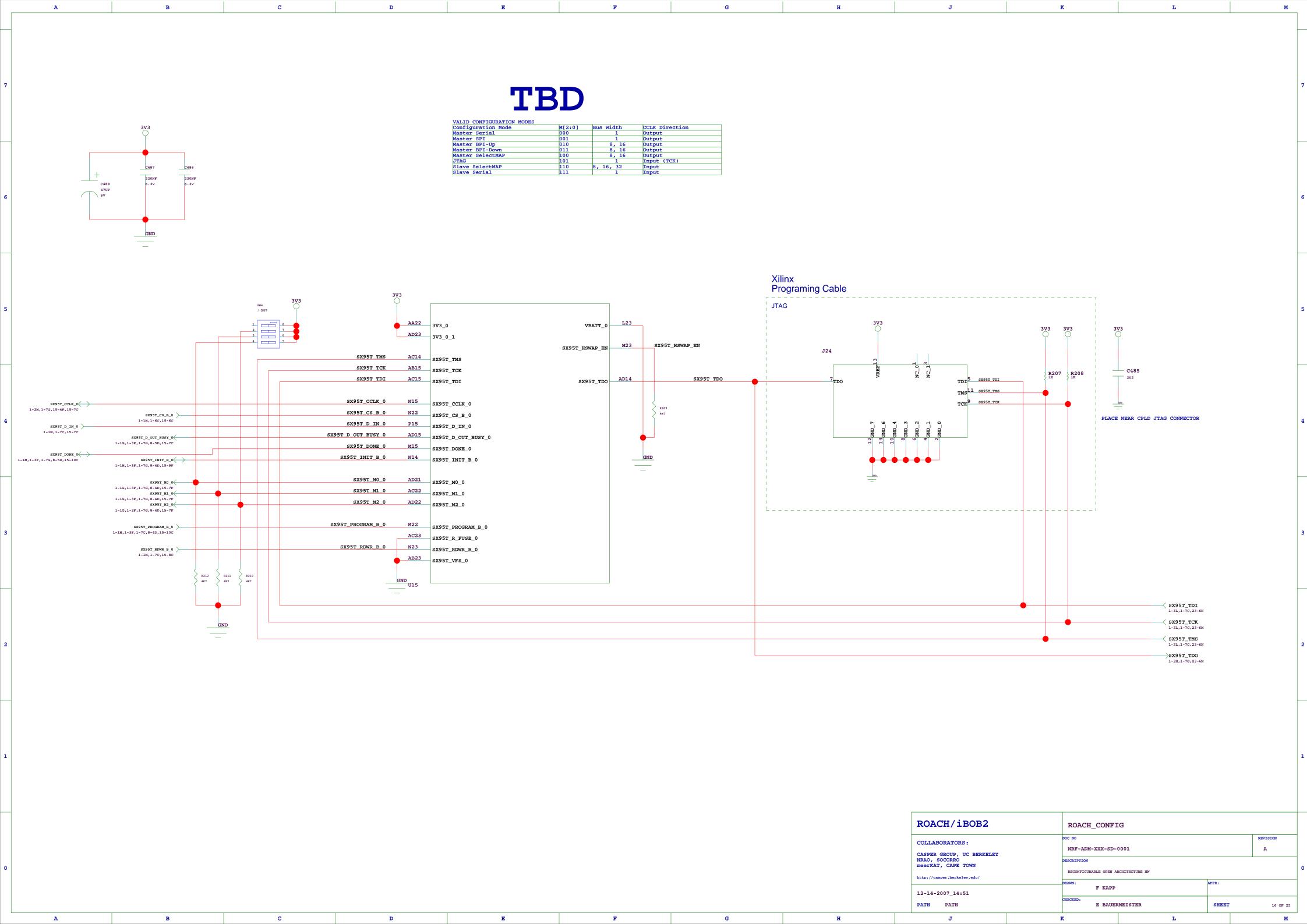














REMOVED VTT AND VREF - INCLUDED ON ROACH_PPC_DDR2

ROACH/iBOB2	ROA	ACH_PPC_POWE	R_1				
COLLABORATORS: CASPER GROUP, UC BERKELEY	DOC NO NRF-	NRF-ADM-XXX-SD-0001			REVISION A		
NRAO, SOCORRO meerKAT, CAPE TOWN		DESCRIPTION RECONFIGURABLE OPEN ARCHITECTURE HW					
http://casper.berkeley.edu/	RECON	FIGURABLE OPEN ARCHITEC	TURE HW	_			
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