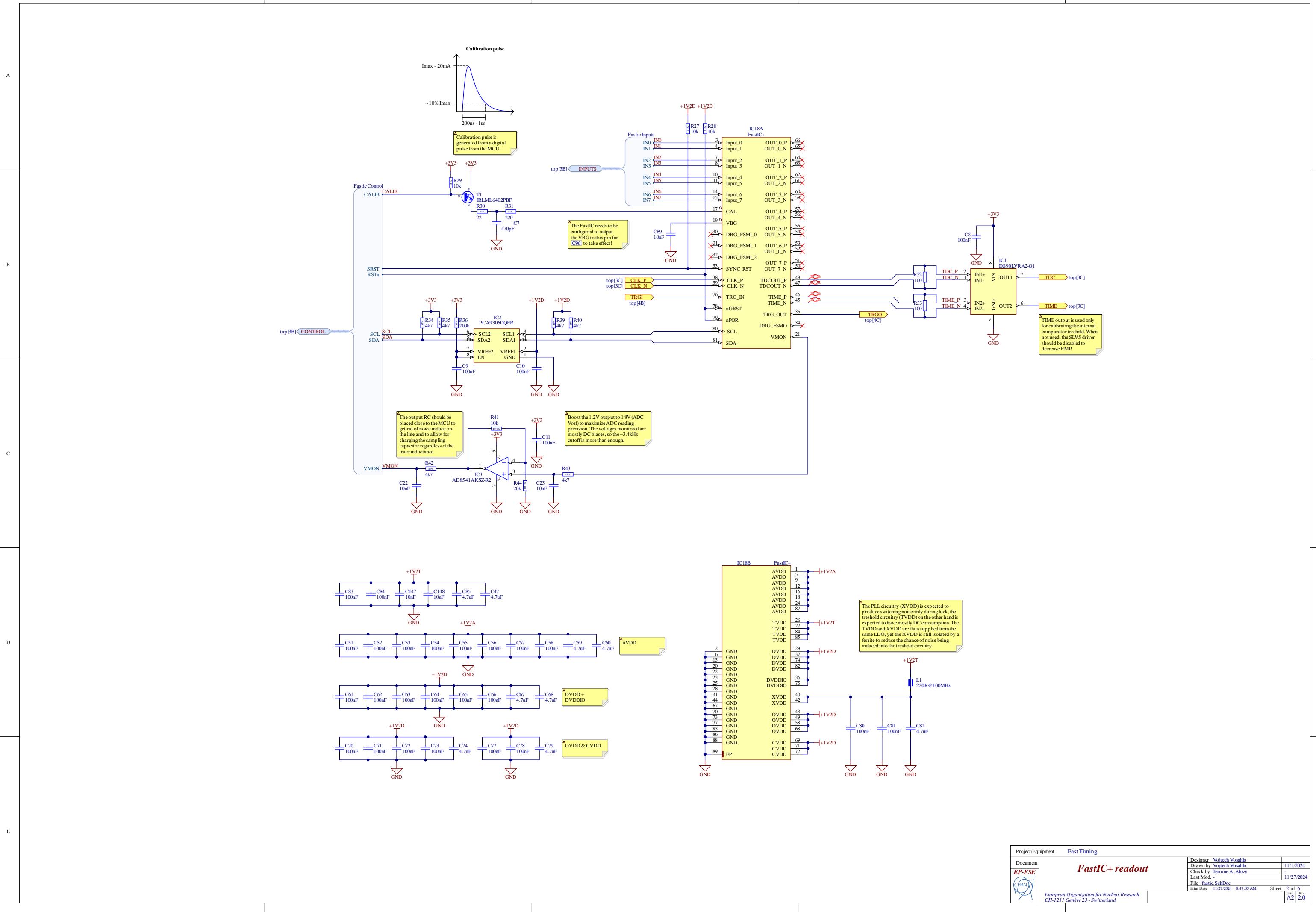
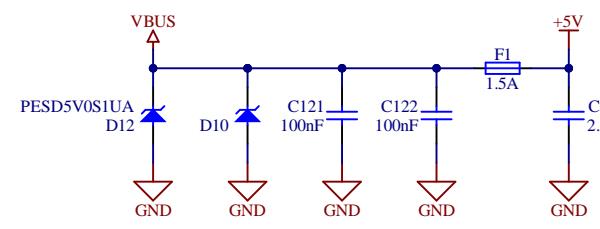


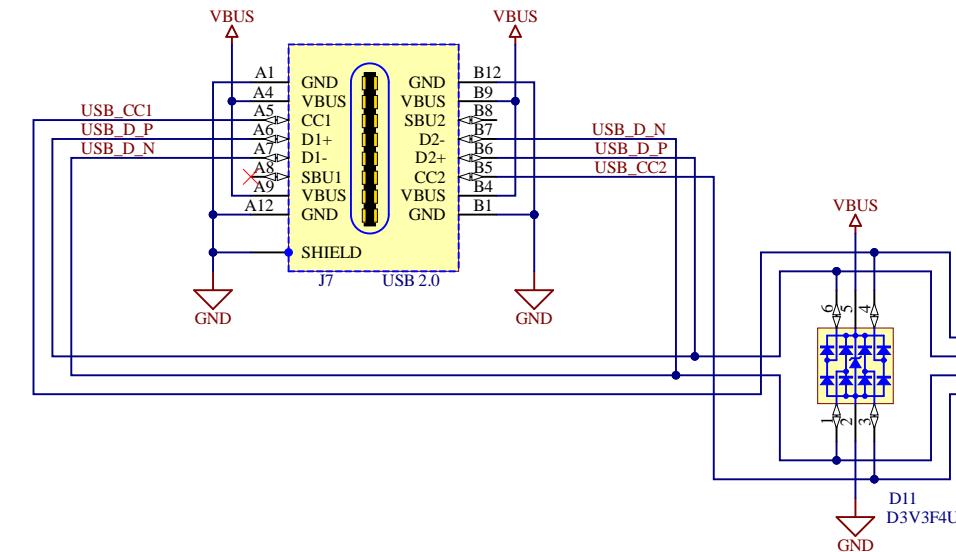
Project/Equipment	Fast Timing	Designer	Vojtěch Vosálo	Date
Document		Drawn by	Vojtěch Vosálo	11/1/2024
EP-ESE	FastIC+ readout	Check by	Jérôme A. Alozy	
		Last Mod.		11/27/2024
		File	top.SchDoc	
		Print Date	11/27/2024 8:47:05 AM	Sheet 1 of 6
				Rev. A2.0
European Organization for Nuclear Research CERN - CH-1211 Geneva 23, Switzerland				



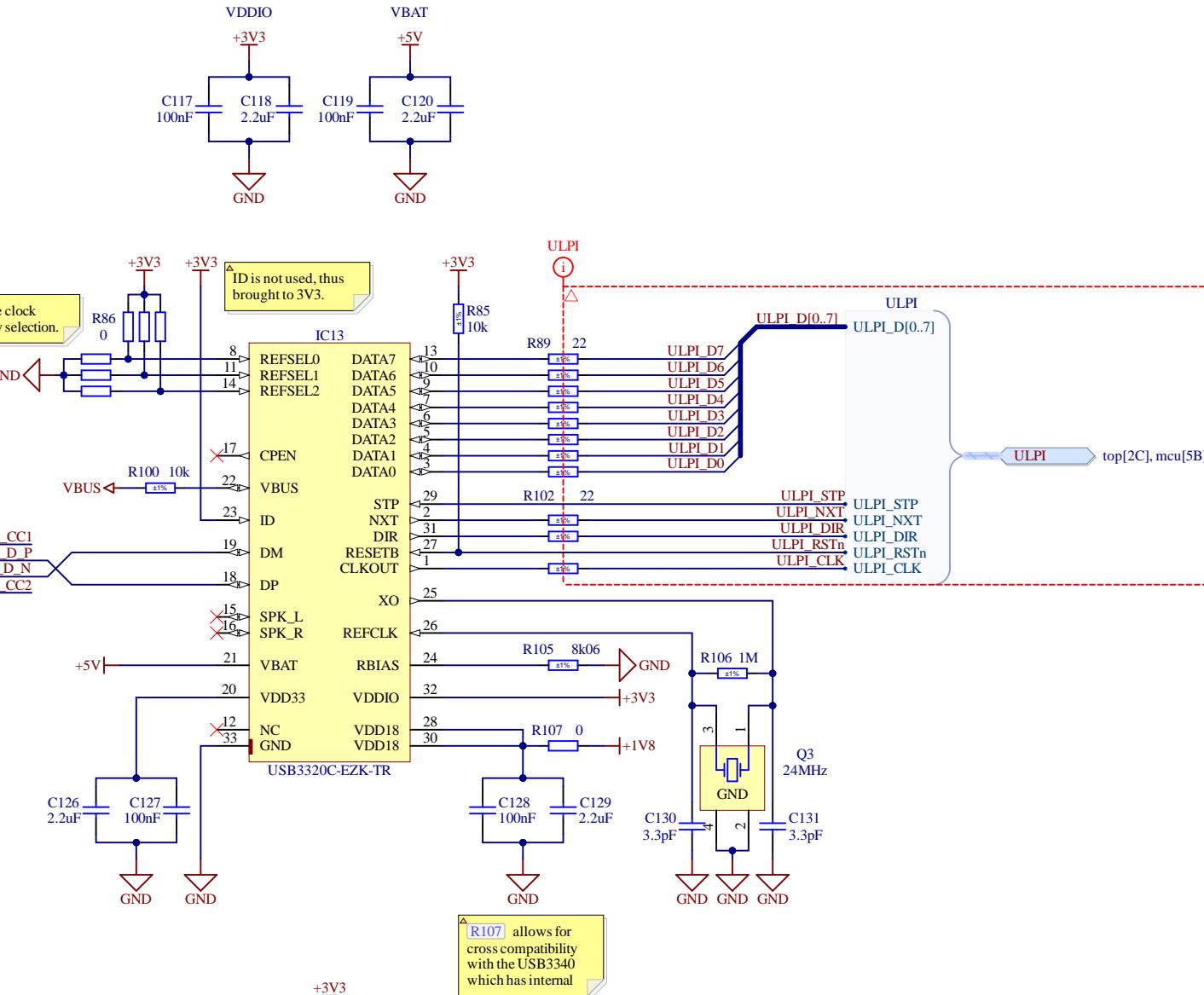
A



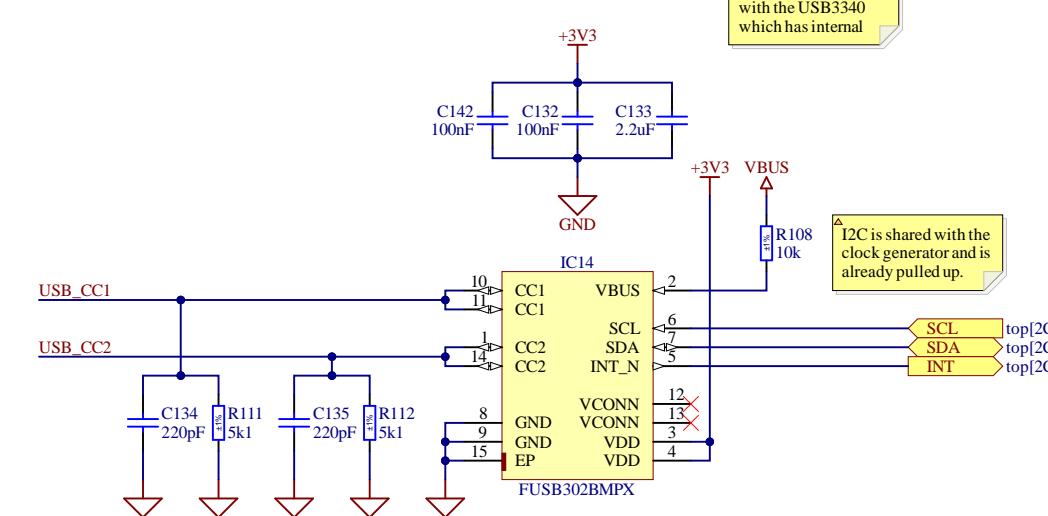
B



C

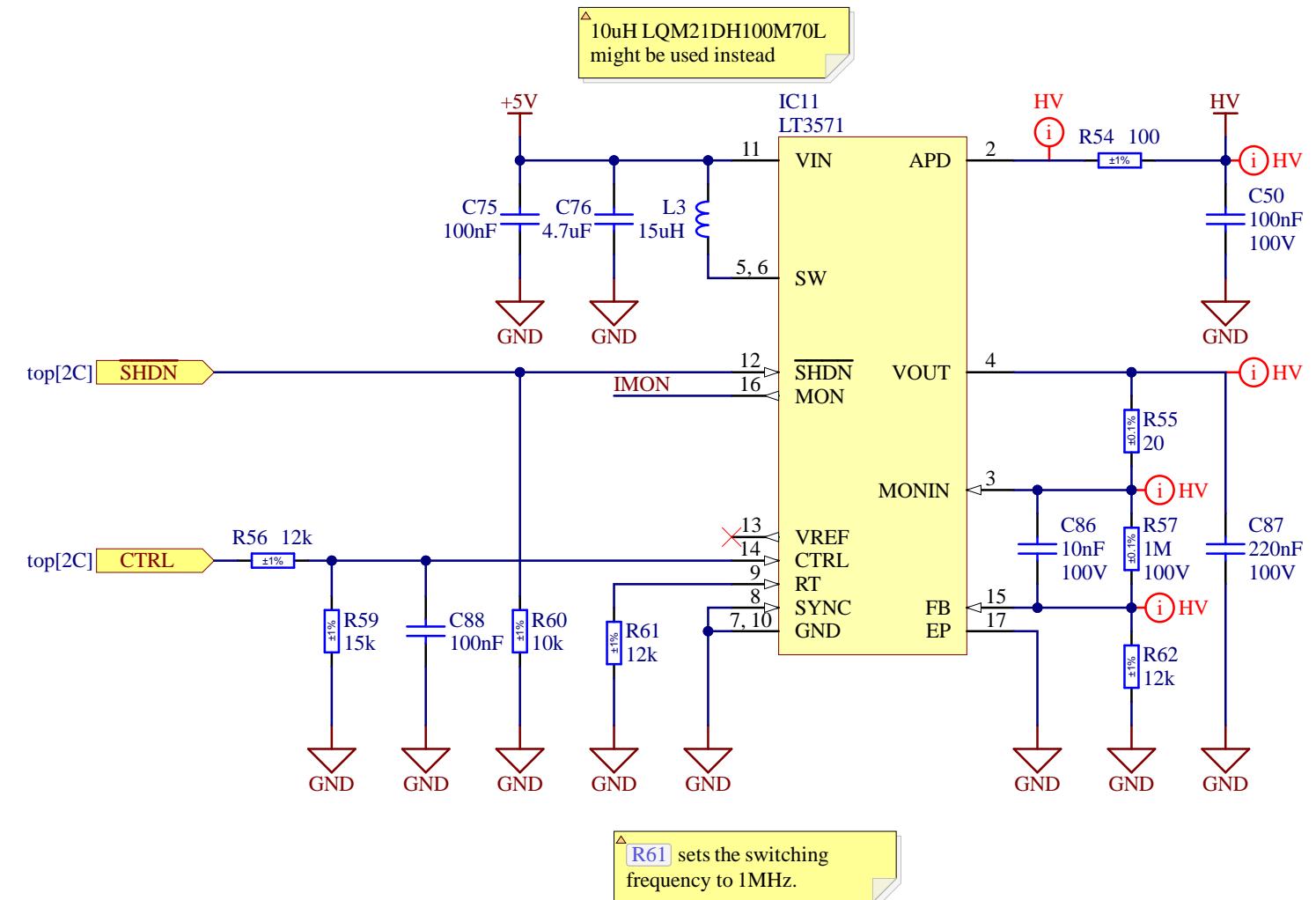
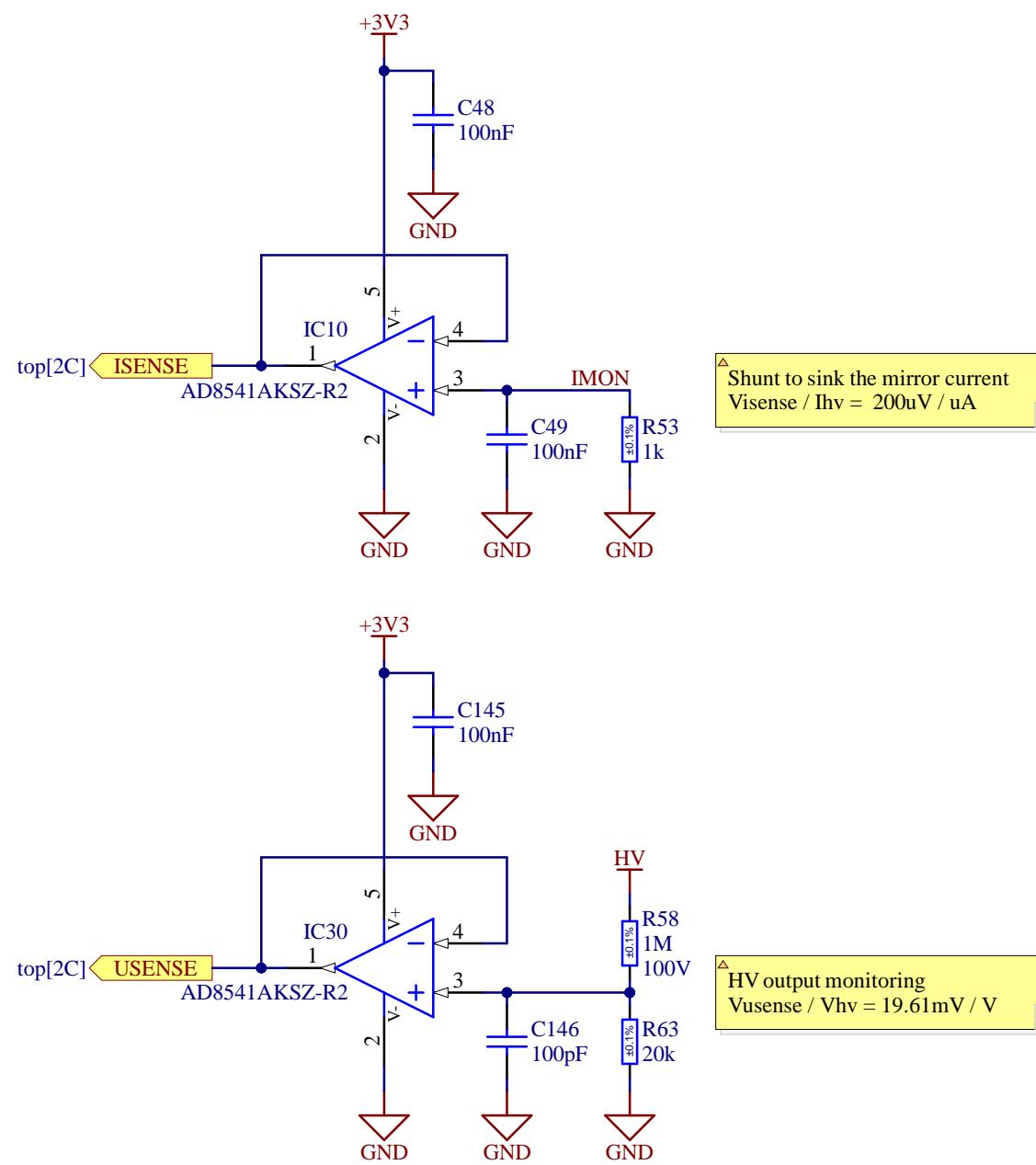


D

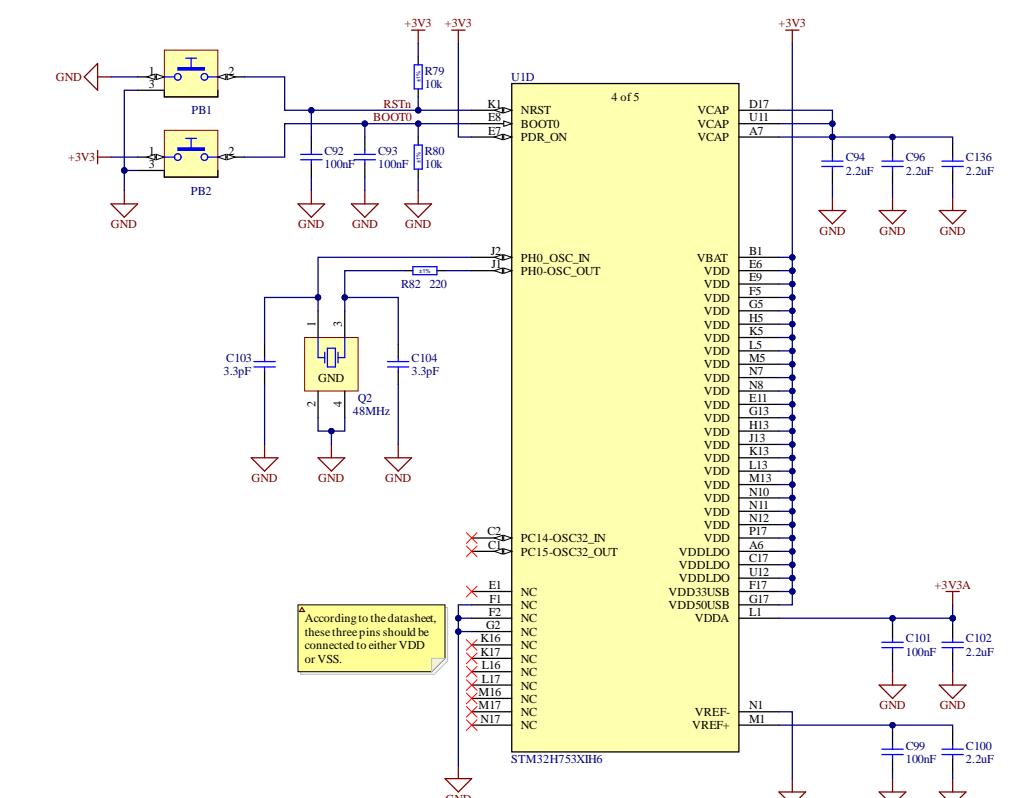
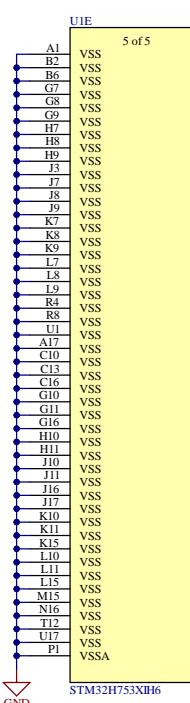
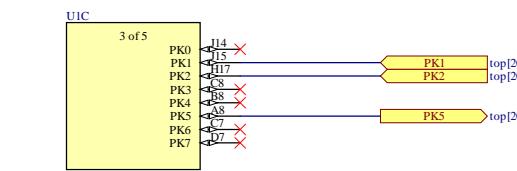
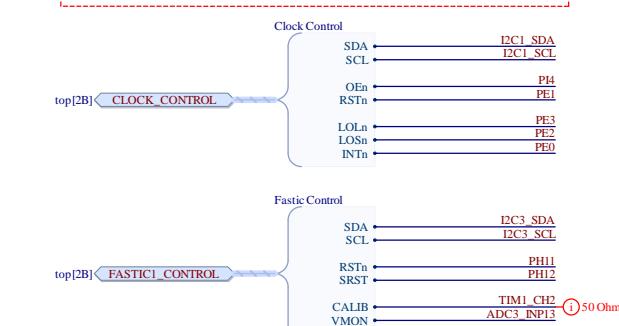
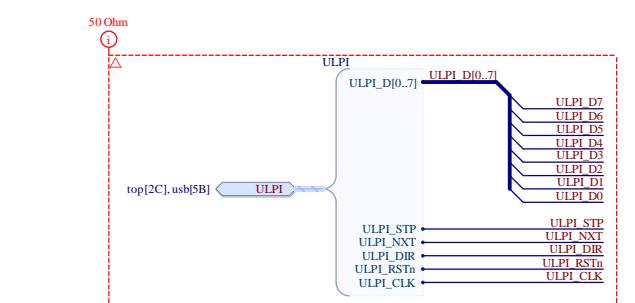
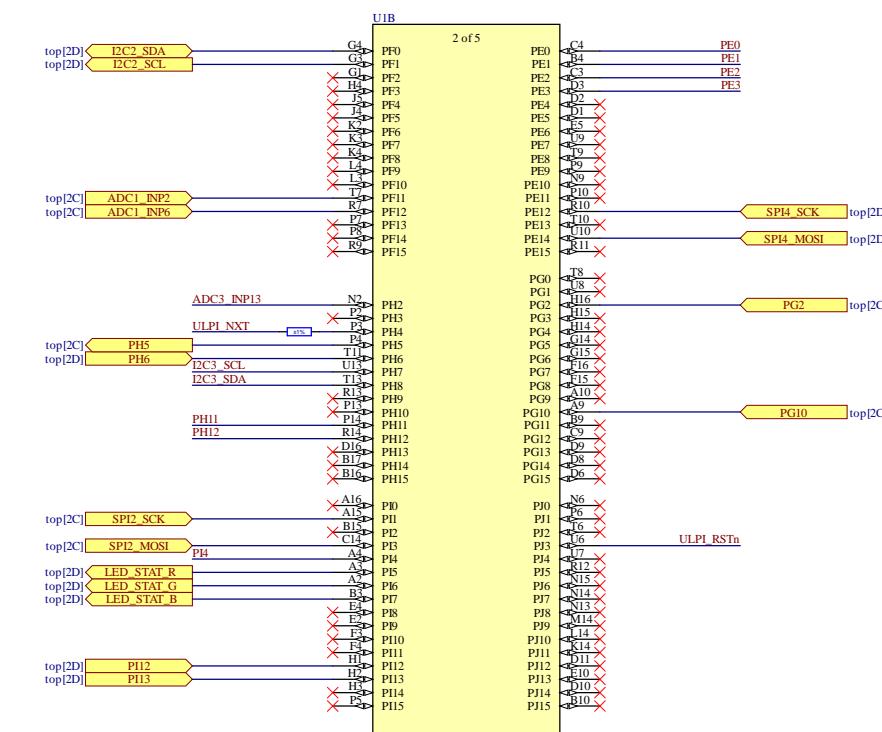
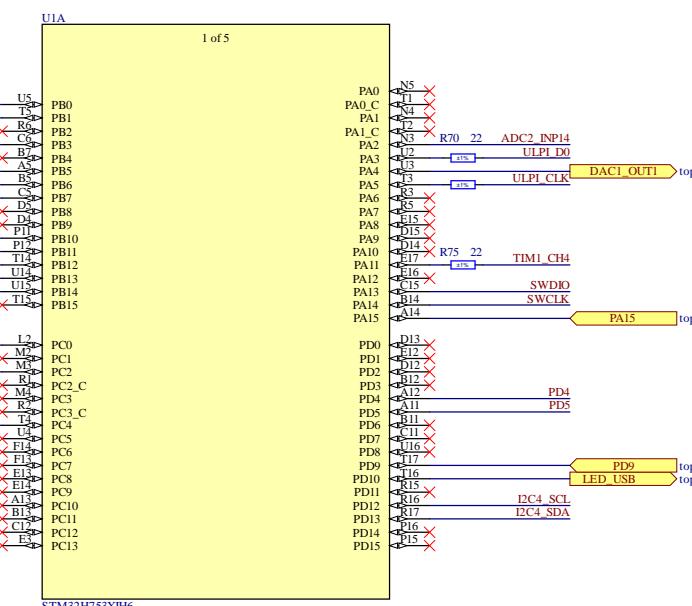
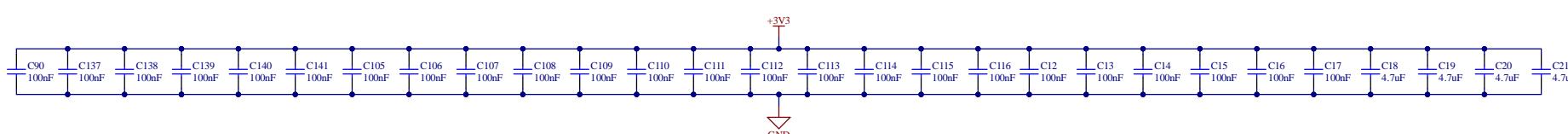


E

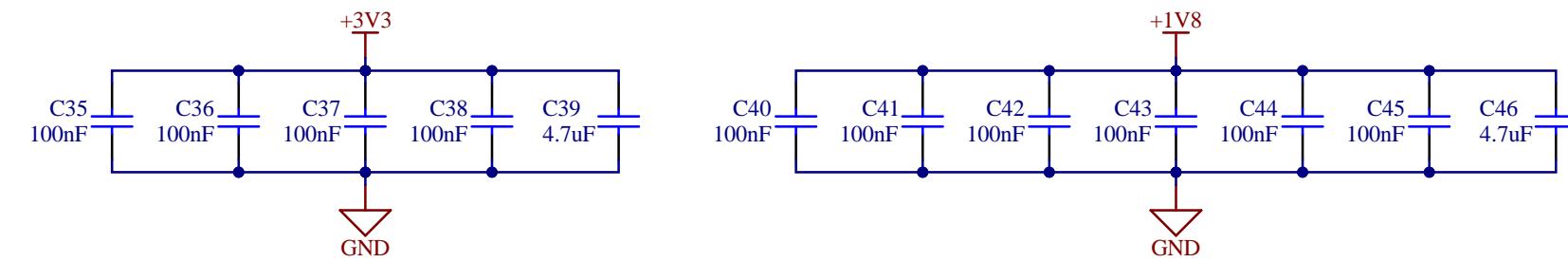
Project/Equipment		FastIC+ readout	
Document		Designer	Vojtech Vosahlo
EP-ESE		Drawn by	Vojtech Vosahlo
			11/1/2024
		Check by	Jerome A. Alozy
		Last Mod.	11/27/2024
		File	usb.SchDoc
		Print Date	11/27/2024 8:47:05 AM
		Sheet	3 of 6
		Size	A3
		Rev	2.0



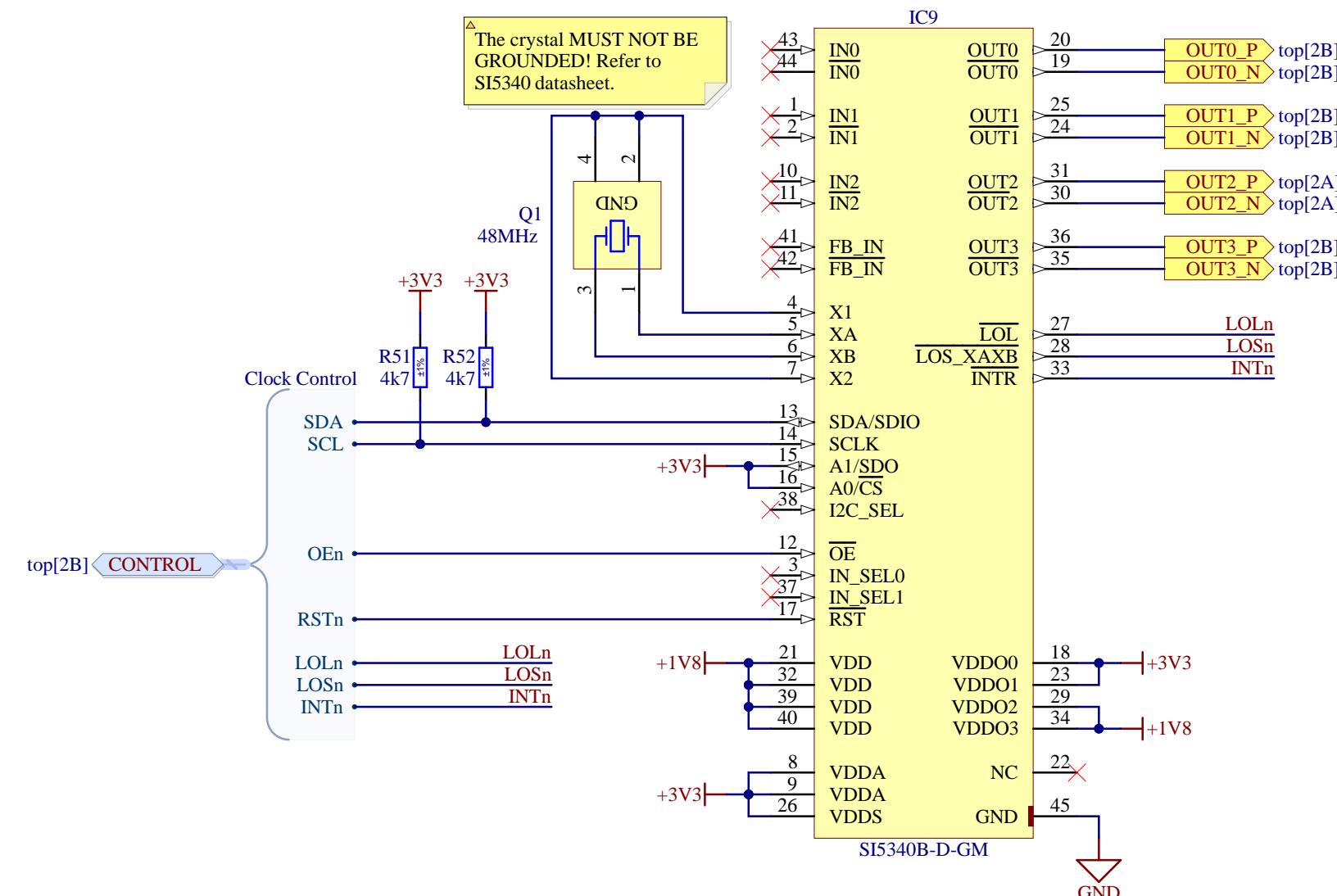
Project/Equipment	Fast Timing	Designer	Vojtech Vosahlo	
Document		Drawn by	Vojtech Vosahlo	11/1/2024
EP- ESE 	<i>FastIC+ readout</i>		Check by	Jerome A. Alozy
		Last Mod.		11/15/2024
		File	hv.SchDoc	
		Print Date	11/27/2024 8:47:05 AM	Sheet 4 of 6
				Size Rev A4 2.0



A



B



C

Project/Equipment		Fast Timing	
Document	EP- ESE	Designer	Vojtech Vosahlo
		Drawn by	Vojtech Vosahlo
		Check by	Jerome A. Alozy
		Last Mod.	11/15/2024
		File	clock.SchDoc
		Print Date	11/27/2024 8:47:06 AM
		Sheet	6 of 6
		Size	A4
		Rev	2.0

E

A

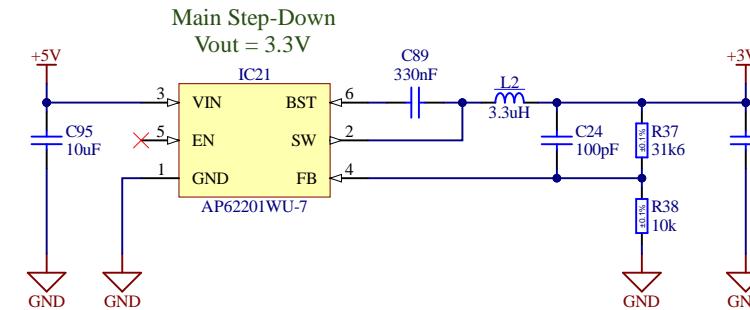
A

Power Consumption (Absolute Maximum)
 Pmax(FastICs)=230mW
 Pmax(Clock)=860mW
 Pmax(USB)=100mW
 Pmax(STM32)=1000mW
 Pmax(HV)=160mW

Pmax ~ 2.4W which should fit into the USB 2.0 current specification (2.5W).

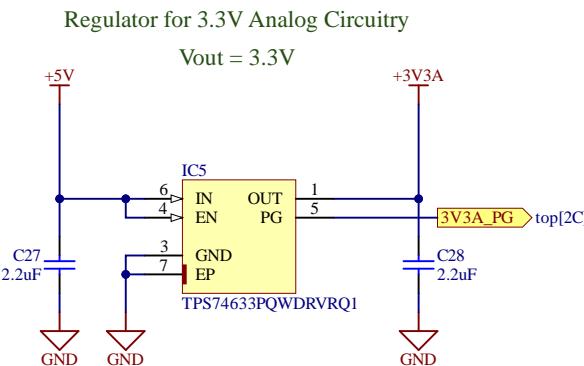
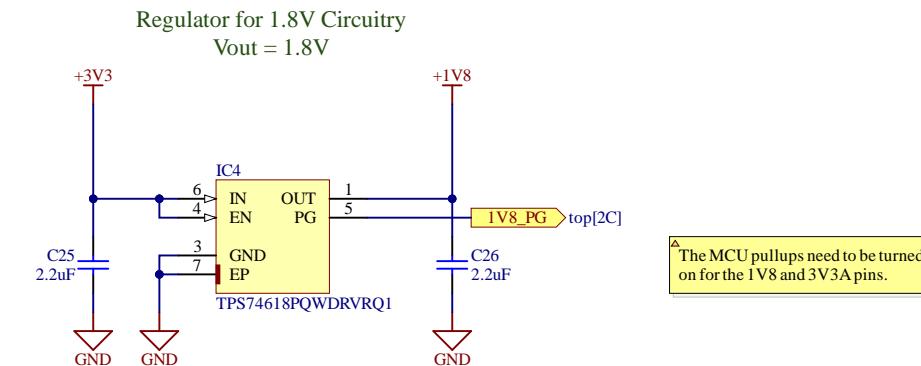
B

B



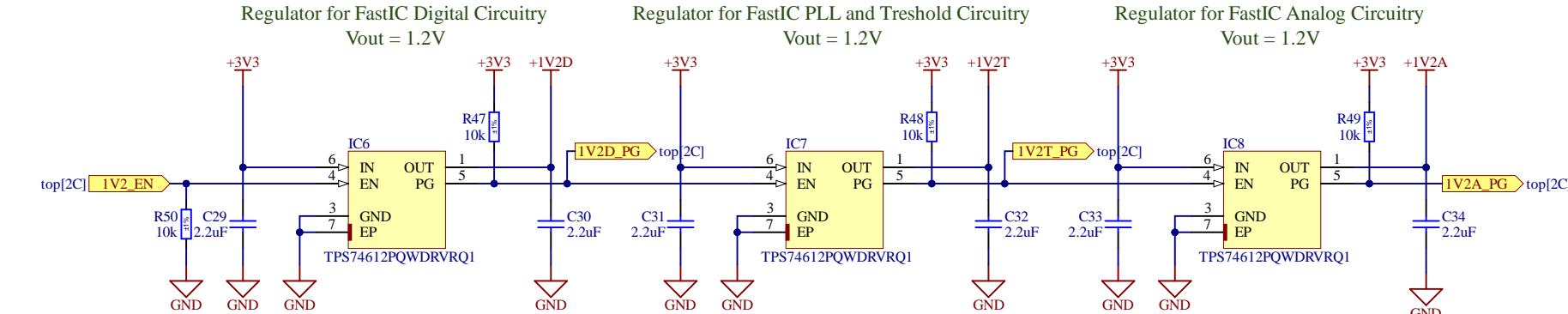
C

C



D

D



E

E

Project/Equipment		Fast Timing	
Document	EP-ESE	Designer	Vojtech Vosahlo
		Drawn by	Vojtech Vosahlo
		Check by	Jerome A. Alozy
		Last Mod.	11/27/2024
		File	power.SchDoc
		Print Date	11/27/2024 8:47:06 AM
		Sheet	7 of 6
		Size	A3
		Rev	2.0

FastIC+ readout

European Organization for Nuclear Research
CH-1211 Genève 23 - Switzerland