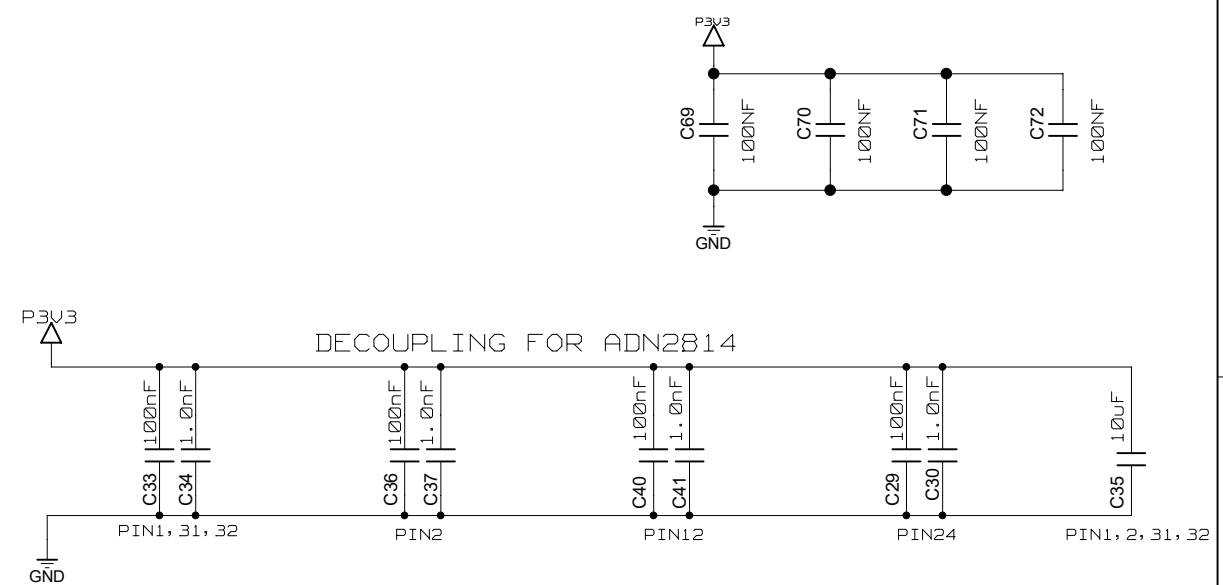
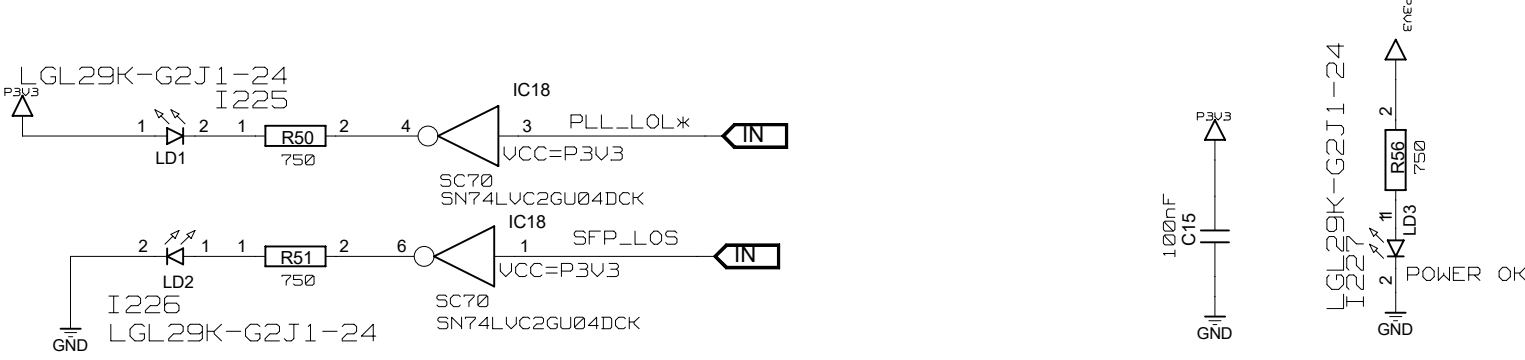
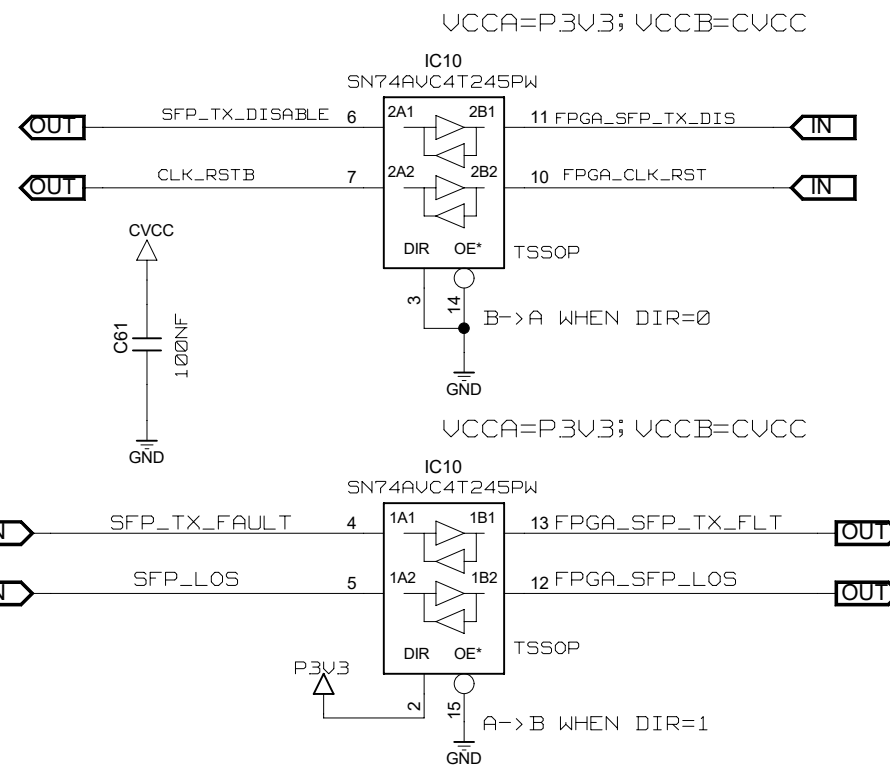
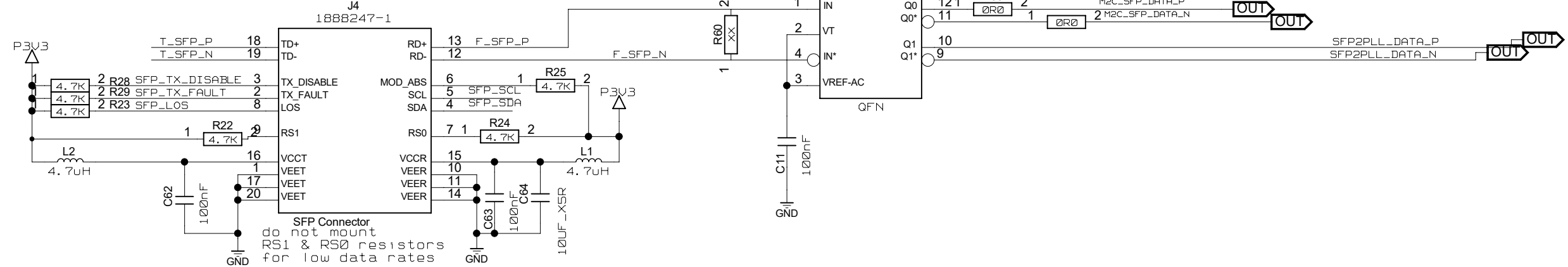


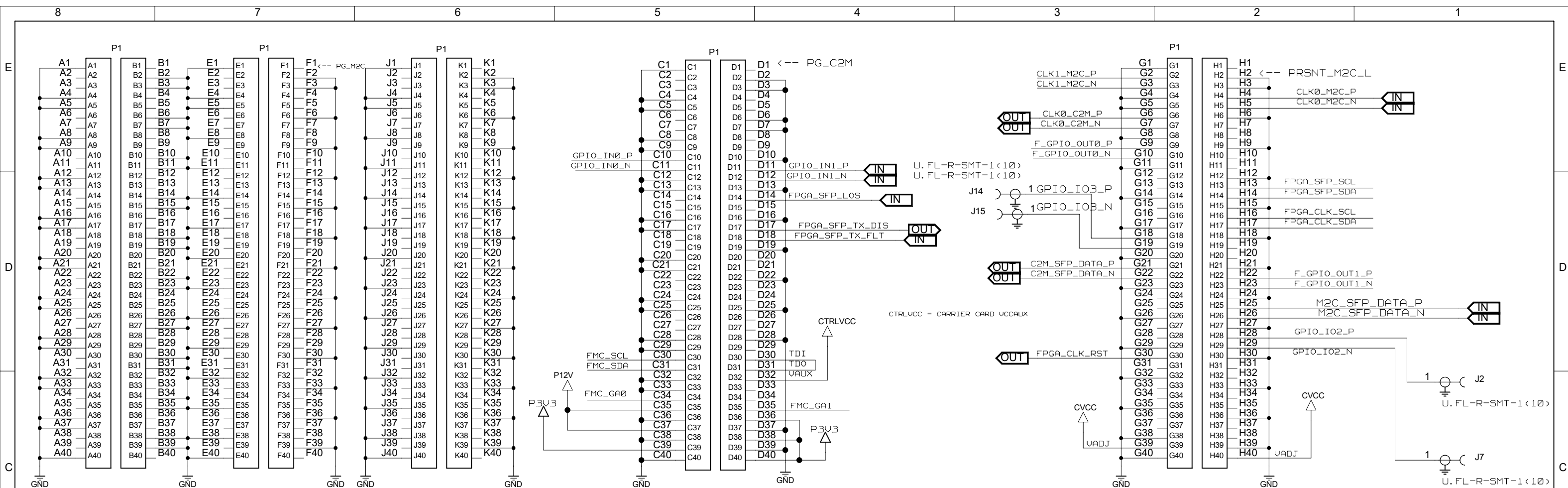
SFP I2C ADDRESSES:
1010000 AND
1010001



THIS PAGE ADAPTED FROM
CERN PROJECT EDA-02319-V3-1 (TTC_FMC)

PROTODUNE TIMING/SYNC TEST FMC

PROJECT: pc069a_toplevel		REVISION: A		DATE MODIFIED: March/2022	
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		DESIGNED BY: Baesso, Cussans		SIZE: A3	PAGE: 1 / 5
		SFP AND CDR			

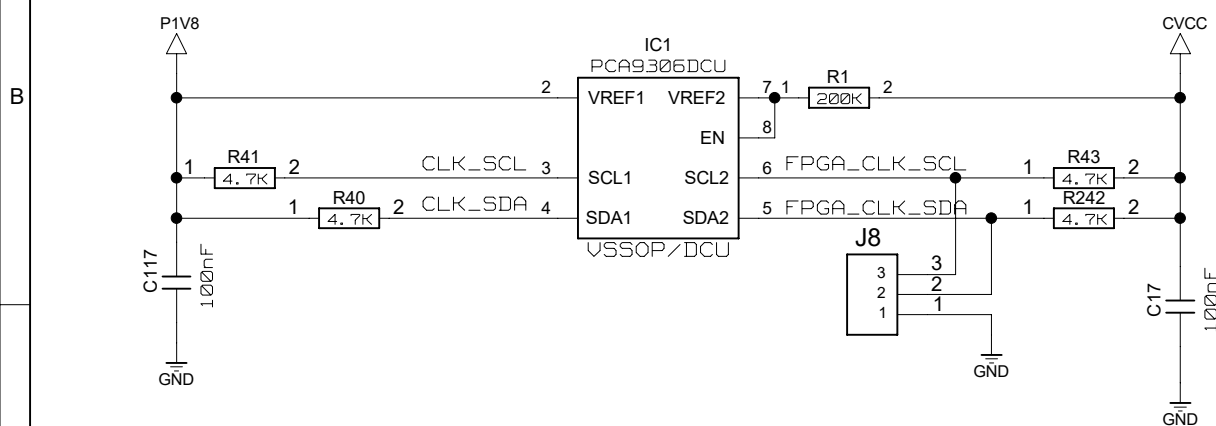


FOR P1 USE SAMTEC MC-LPC-10 OR MC-HPC-10

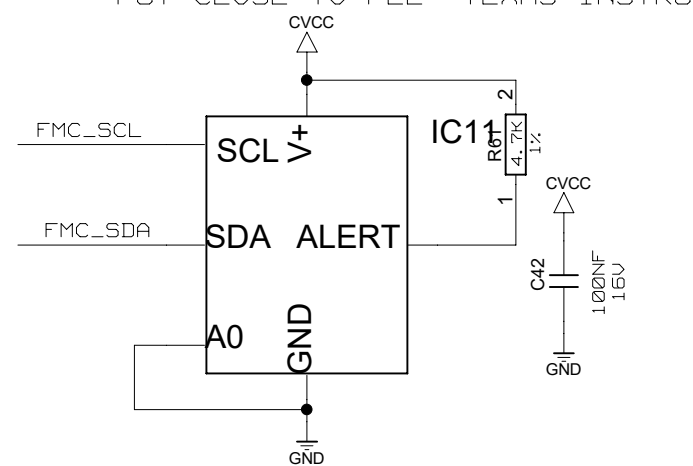
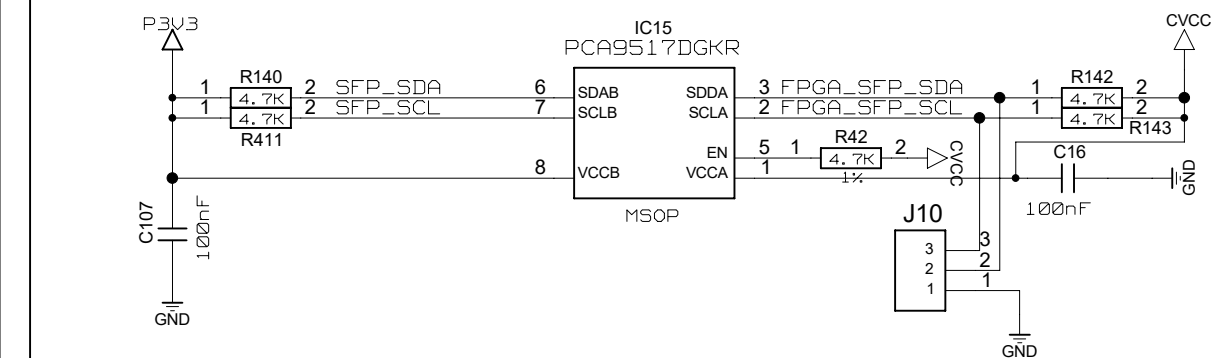
TEMPERATURE SENSOR I308
PUT CLOSE TO PLL TMP1075NDRLR
TEXAS INSTRUMENTS

EEPROM WITH UNIQUE ID

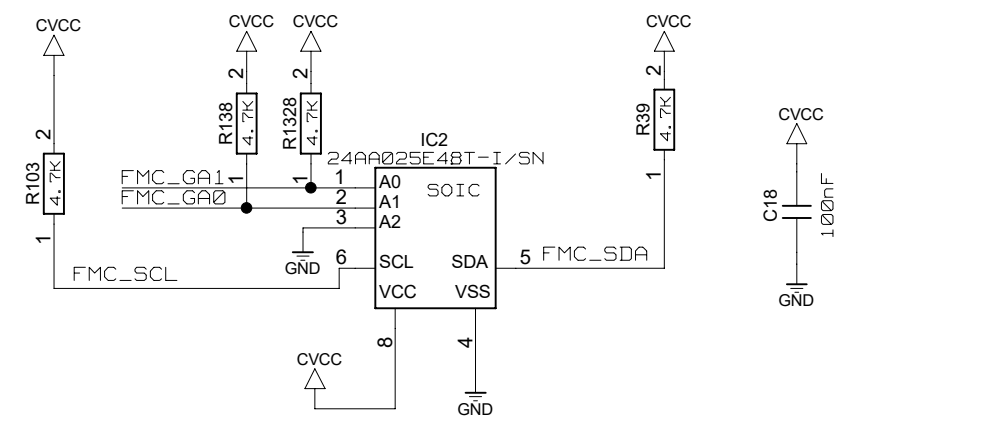
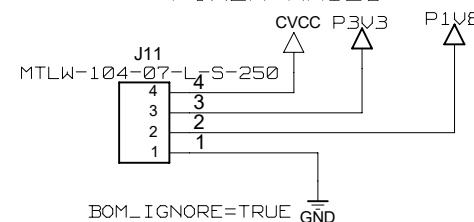
WHEN USING PCA9306, CVCC MUST BE AT LEAST $1.8V + 0.6V = 2.4V$



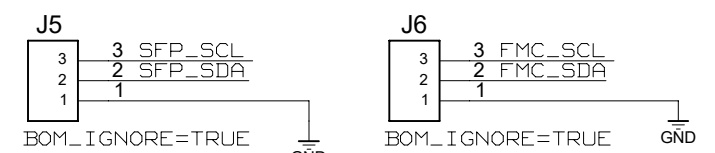
```
USE TCA9517D GK INSTEAD
EN PIN INTERNALLY PULLED-UP
```



TEST POINTS FOR POWER RAILS

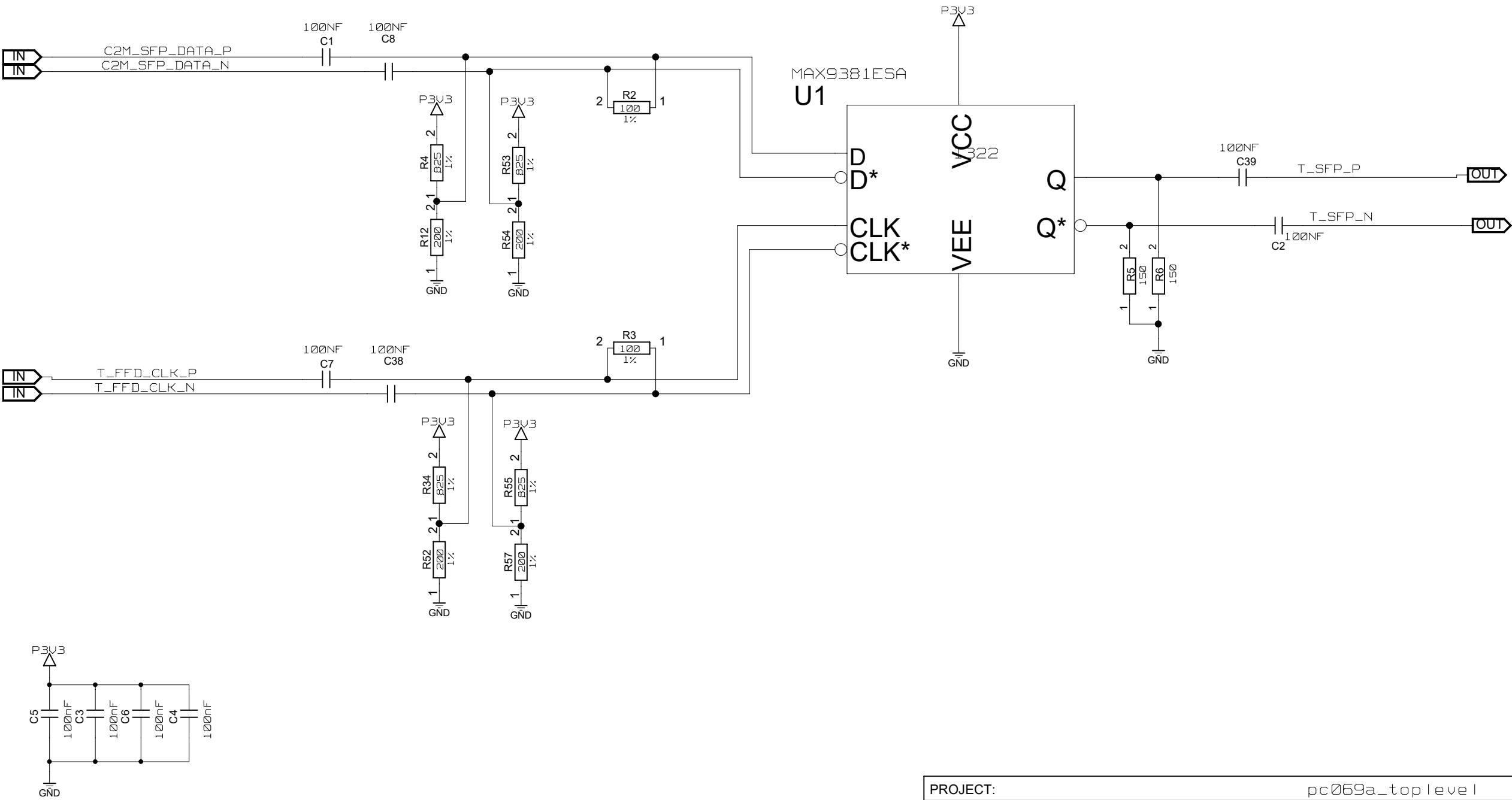


TEST POINTS FOR
I2C SIGNALS

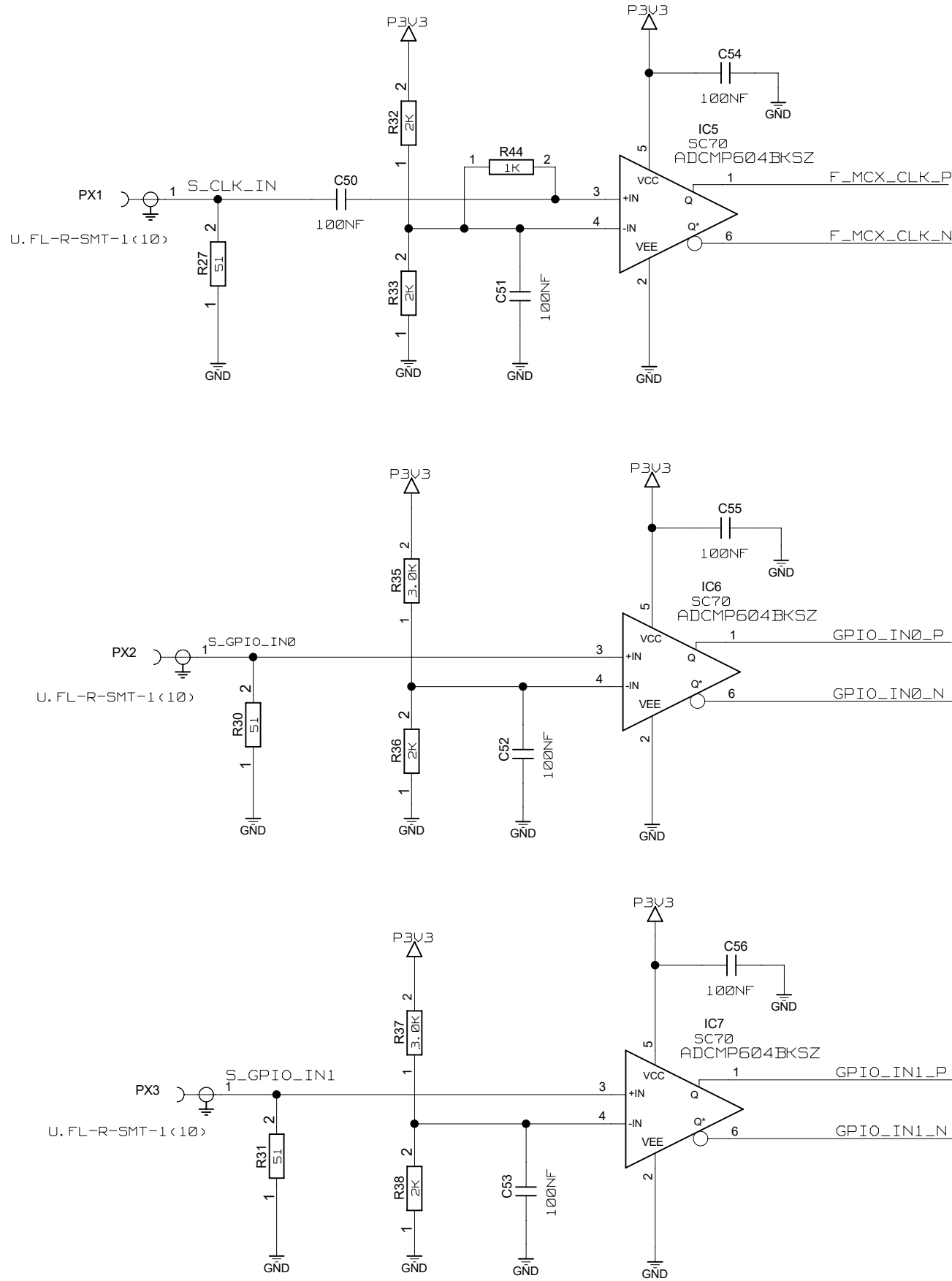


PROJECT:		pc069a_toplevel	
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION:	A	
	DESIGNED BY:	Baesso, Cussans	DATE MODIFIED: March/2022 SIZE: A3 PAGE: 2 / 5
	FMC CONNECTOR + EEPROM		

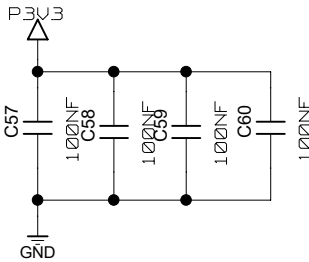
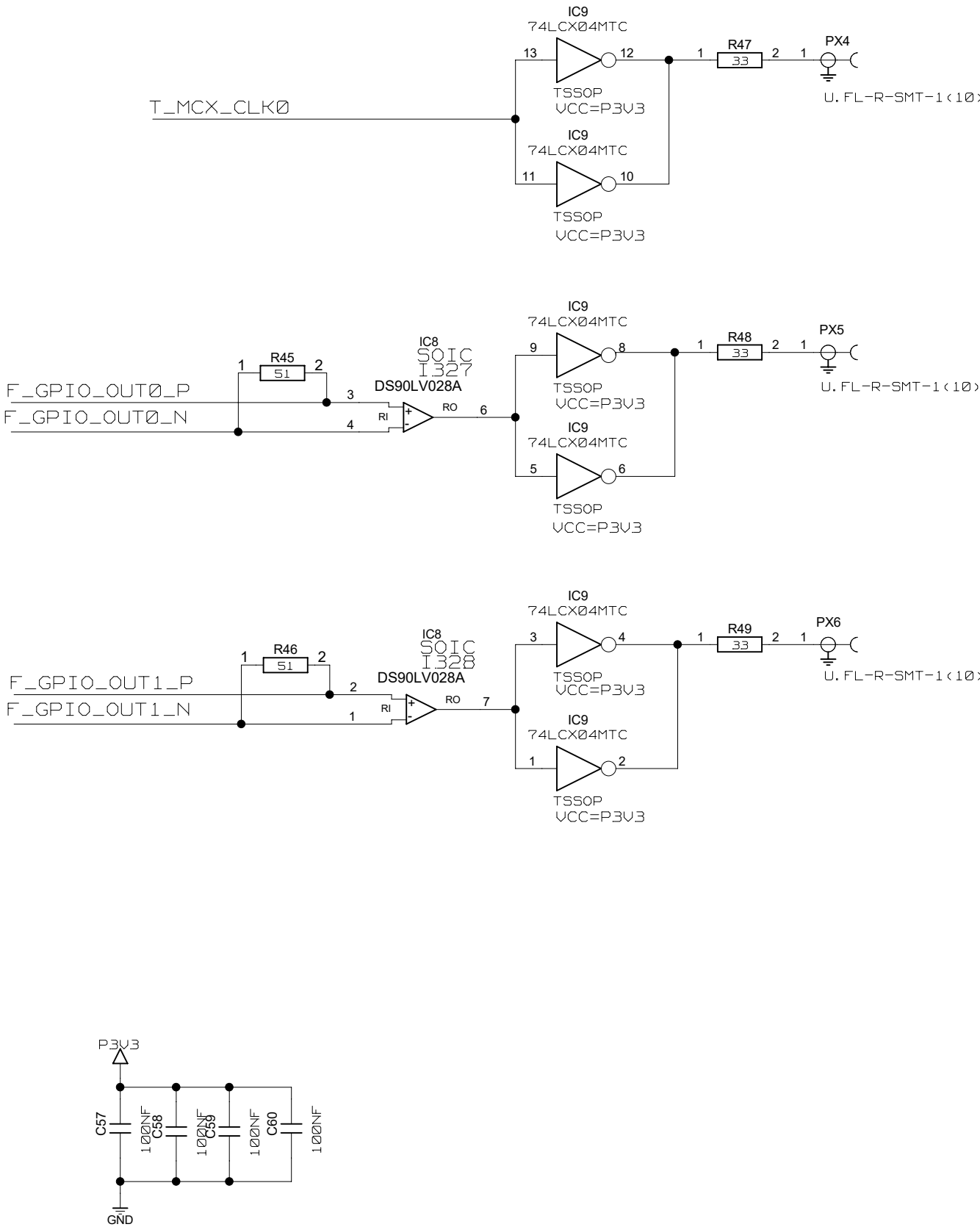
HIGH SPEED D-TYPE FLIP-FLOP
(TO REDUCE JITTER ON ENCODED DATA)



PROJECT:		pc069a_top level		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK		REVISION:	A	DATE MODIFIED: March/2022
		DESIGNED BY:	Baesso, Cussans	SIZE: A3 PAGE: 3 / 5
D-TYPE REGISTER				



THRESHOLD = 0.825V
E.G. SERIES TERMINATED 3.3V TTL
INTO 50 OHMS



PROJECT:		pc069a_toplevel		
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	DESIGNED BY:	Baesso, Cussans	SIZE: A3	PAGE: 5 / 5
	CLOCK I/O AND GPIO			