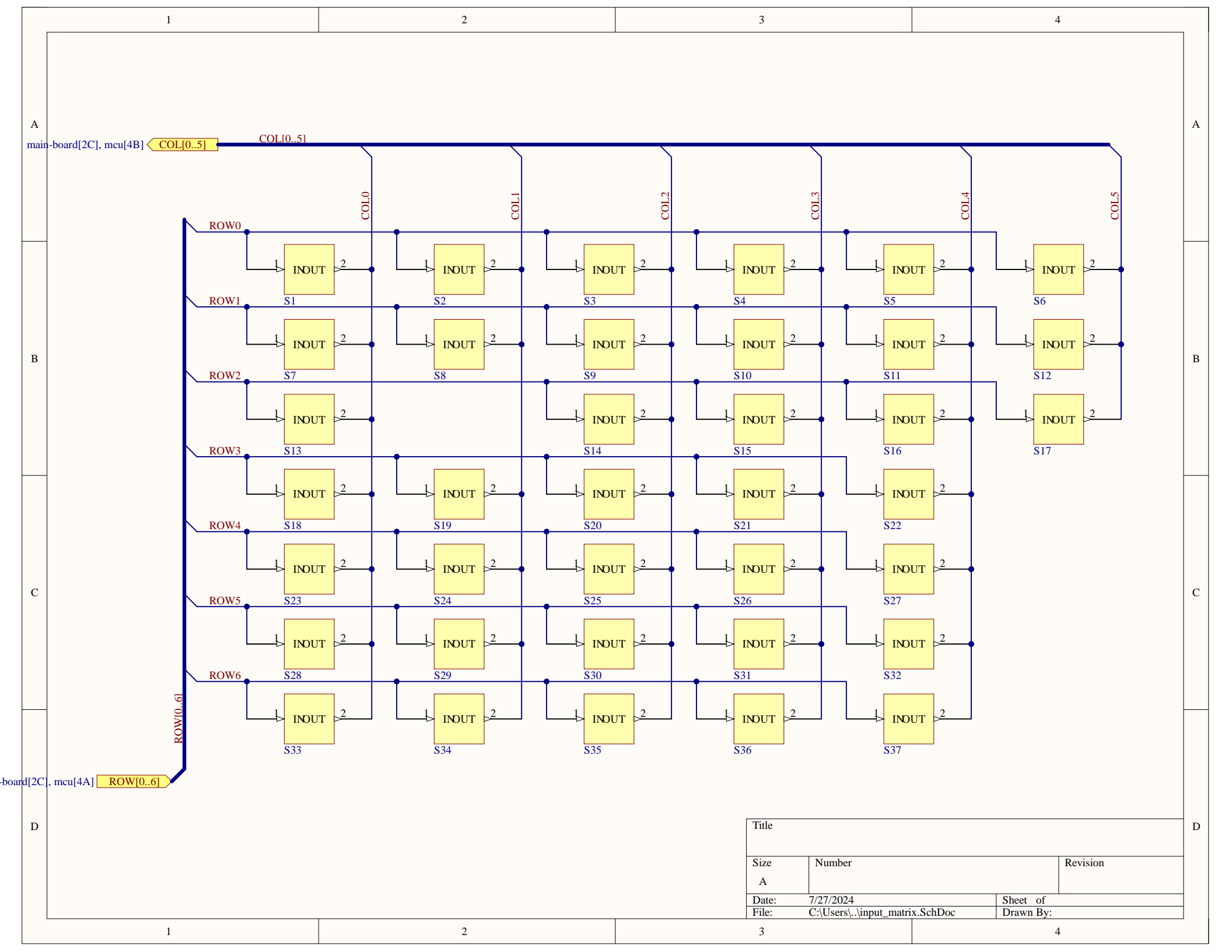
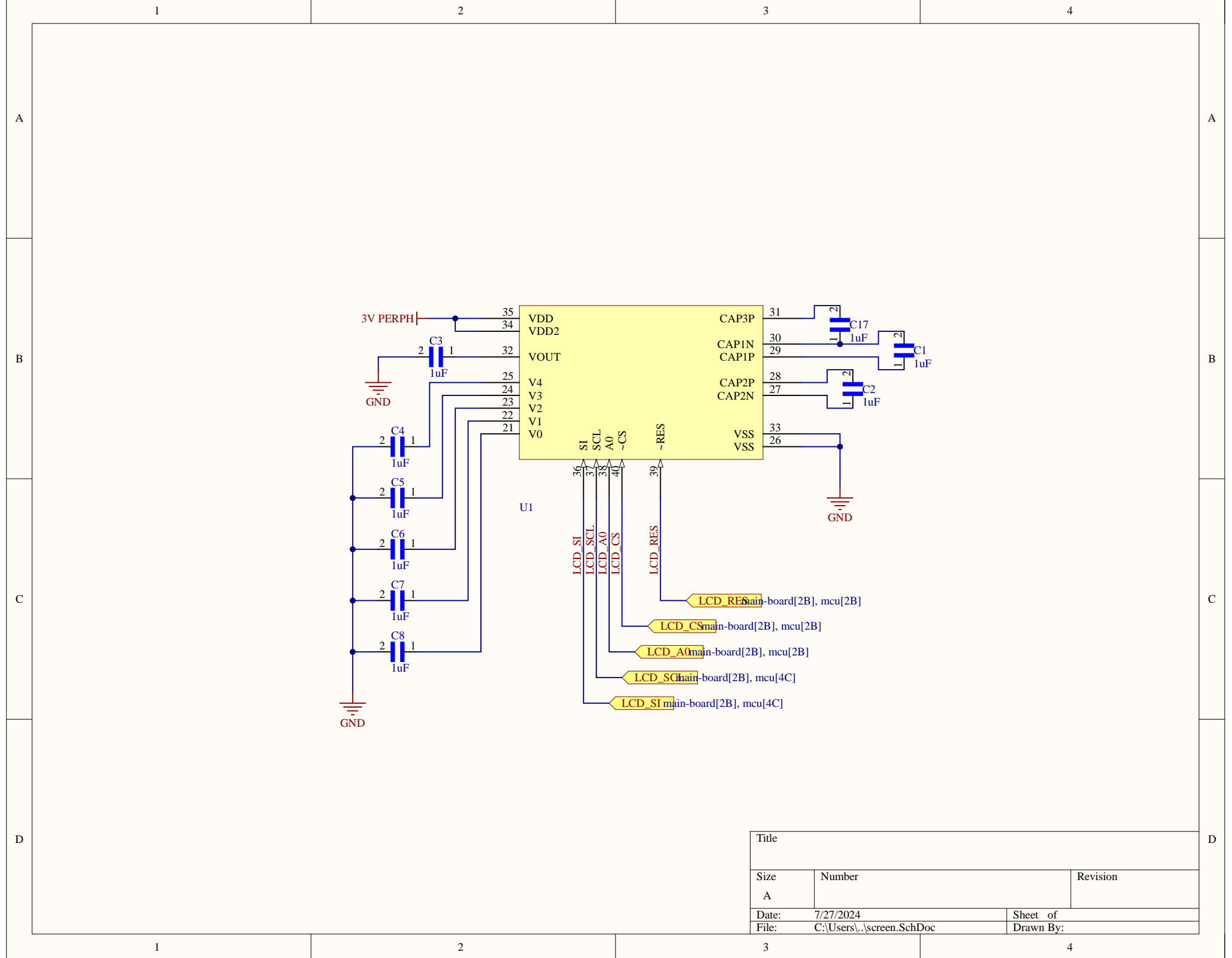


Title		
Size	Number	Revision
A		
Date:	7/27/2024	Sheet of
File:	C:\Users\...\main-board.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	7/27/2024	Sheet of
File:	C:\Users\...\input_matrix.SchDoc	Drawn By:



A

A

B

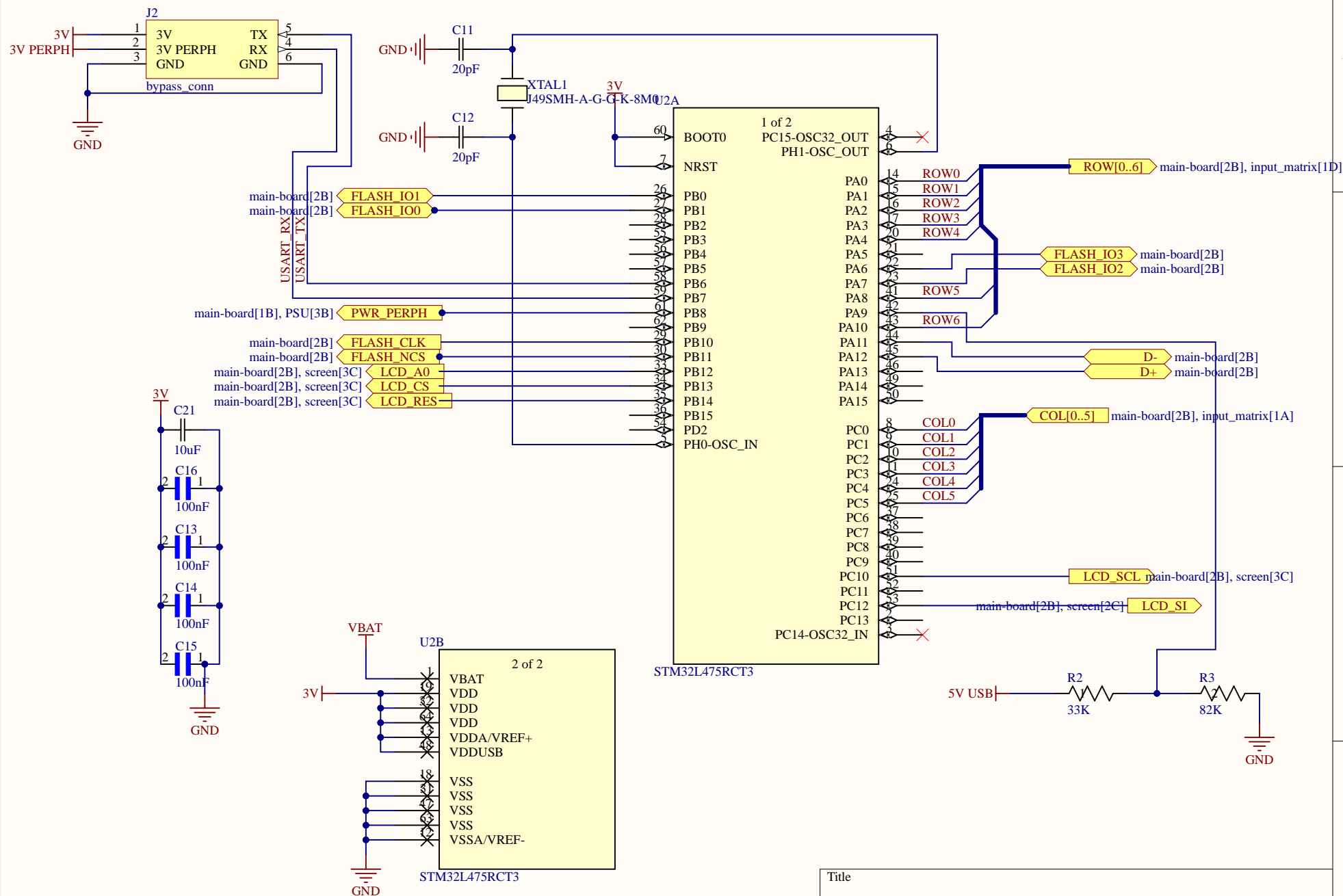
B

C

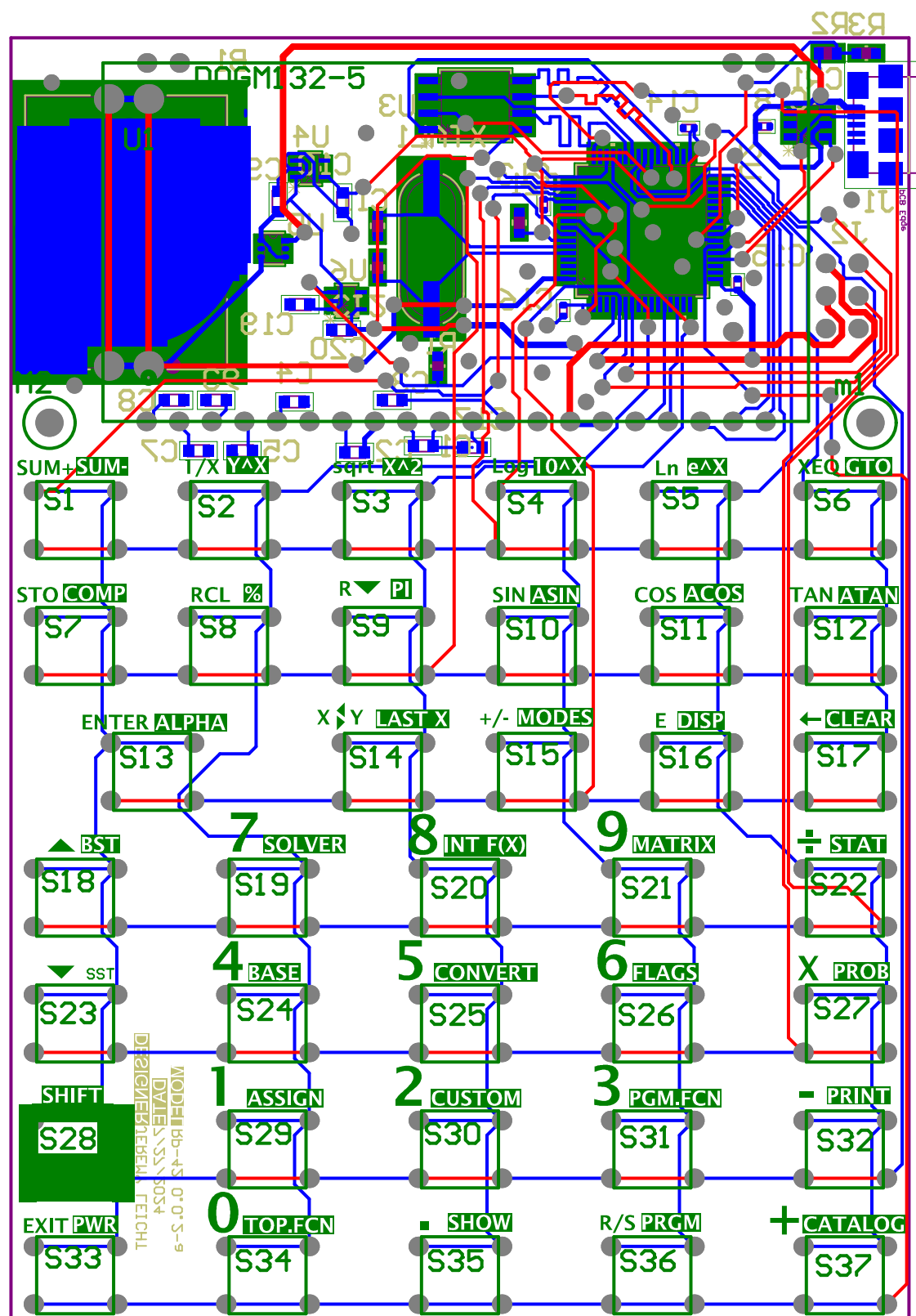
C

D

D



Title		
Size	Number	Revision
A		
Date:	7/27/2024	Sheet of
File:	C:\Users\...\mcu.SchDoc	Drawn By:



Line#	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	BAT-HLD-001-THM	OR202 Battery holder. 2.7V3V. https://www.digkey.com/en/products/detail/he-connectivity-line/BAT-HLD-001-THM304009	B1	1				Digkey	BAT-HLD-001-THM-ND		
	1uF	CL10B109KFR8NNNC	C1, C2, C3, C4, C5, C6, C7, C8, C7, C20	10				[NoParam], Amet	[NoParam], CL10B109KFR8NNNC		
	1uF	CL10B109KFR8NNNC https://www.digkey.com/en/products/detail/samsung-electro-mechanics/CL10B109KFR8NNNC38876047s-N4lgTCB-DaIMBkCMAGAQqgrAsGQaAA45fu5AVXCFtg	C8, C19	2				Amet	CL10B109KFR8NNNC		
	1uF	CL10B109KFR8NNNC https://www.digkey.com/en/products/detail/samsung-electro-mechanics/CL10B109KFR8NNNC38876047s-N4lgTCB-DaIMBkCMAGAQqgrAsGQaAA45fu5AVXCFtg	C10	1				Amet	CL10B109KFR8NNNC		
	20pF	CL10C001UB8NNNC	C11, C12	2							
	100nF	0.1uF A2105 10V Ceramic Capacitor X7R 0402_1005 Metric.	C13, C14, C15, C16, C18	5							
	10uF	CL10A109KQ8NNNL	C21	1							
	USB-C-4306	No Description Available	CR1	1							
	10118192-0002LF	Micro USB 2.0, Input Output Connections, B TYPE RECEPTACLE without flange	J1	1							
	bypass_conn	Bypass connector for power supply and backup chip programming	J2	1							
	m2		m1, m2	2							
	100K	RC0603FR-07100KL	R1	1							
	33K	RC0603FR-0733KL	R2	1							
	82K	RC0603FR-0782KL	R3	1							
	temp_switch		S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37	37							
	EA00GM132W	EA00GM132W https://www.digkey.com/en/products/detail/eavisions/EA-DOGM132L-5488710	U1	1							
	STM32L475RCT3	STM32 - 256KB, 128KB RAM, USB, OTG, QUAD SPI https://www.st.com/en/microcontrollers-microprocessors/stm32l475rc.html#overview	U2	1							
	V25064J/SSQ	V25064J/SSQ, 64MB, Quad-SPI flash	U3	1							
	MIC5385-3.0VCS-TR	3V Linear Voltage Regulator. https://www.digkey.com/en/products/detail/microchip-technology/MIC5385-3.0VCS-TR1868002?s=N4lgTCBzDaLUBDDBWzAnhQMjCOGAYENVbAFQCUQBJ60yA	U4, U5	2				Newark	554CZ794		
	BAT54DW7-F	2Diode Array, 30V@100mA, Surface mount, Schottky, 6-TSSOP https://www.diodes.com/assets/Datasheets/BAT54DW.pdf	U5	1				Arrow Electronics	BAT54DW7-F		
	J69MHA-G-G-K-8M0	No Description Available	XTAL1	1							