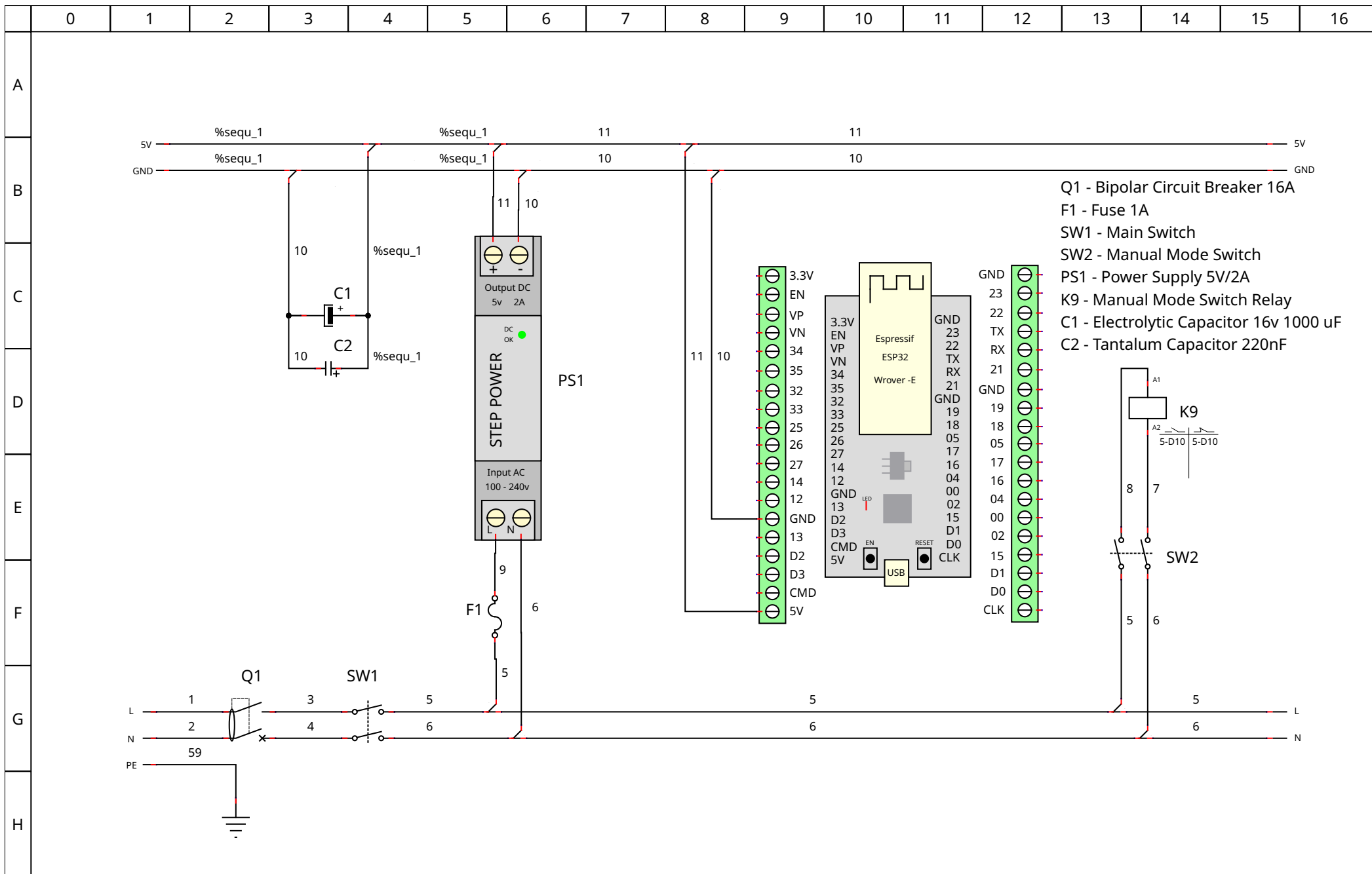
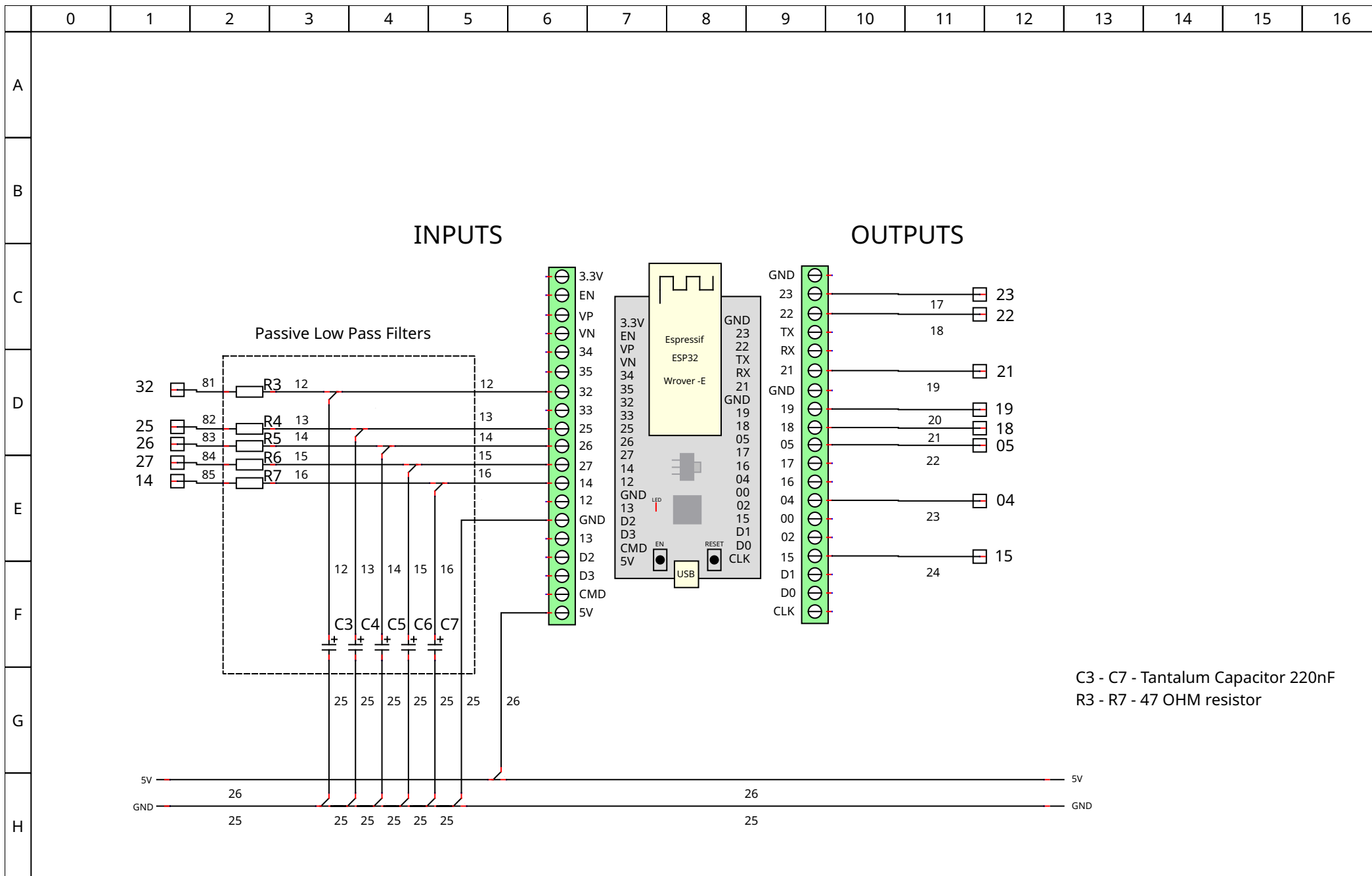
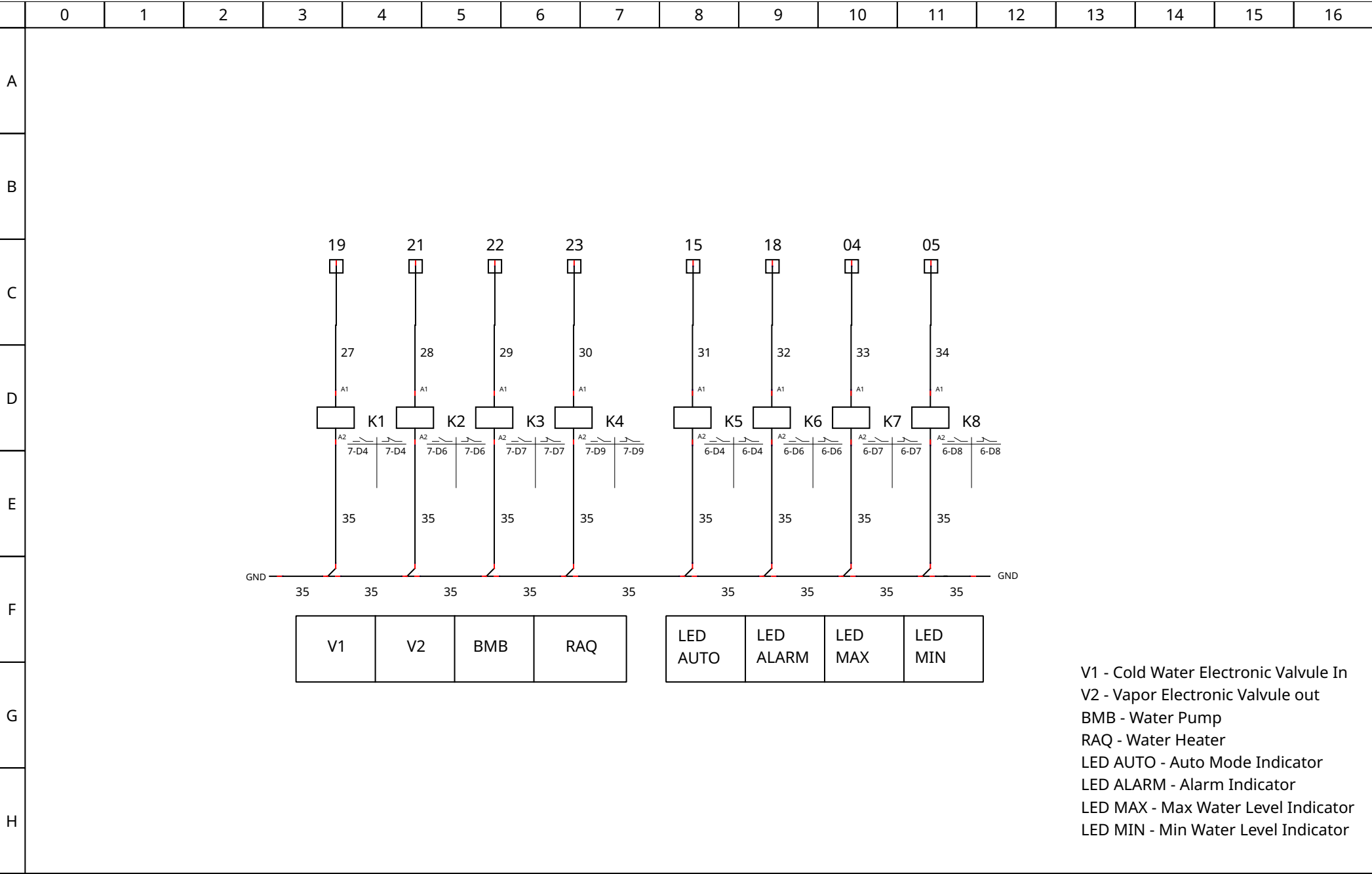
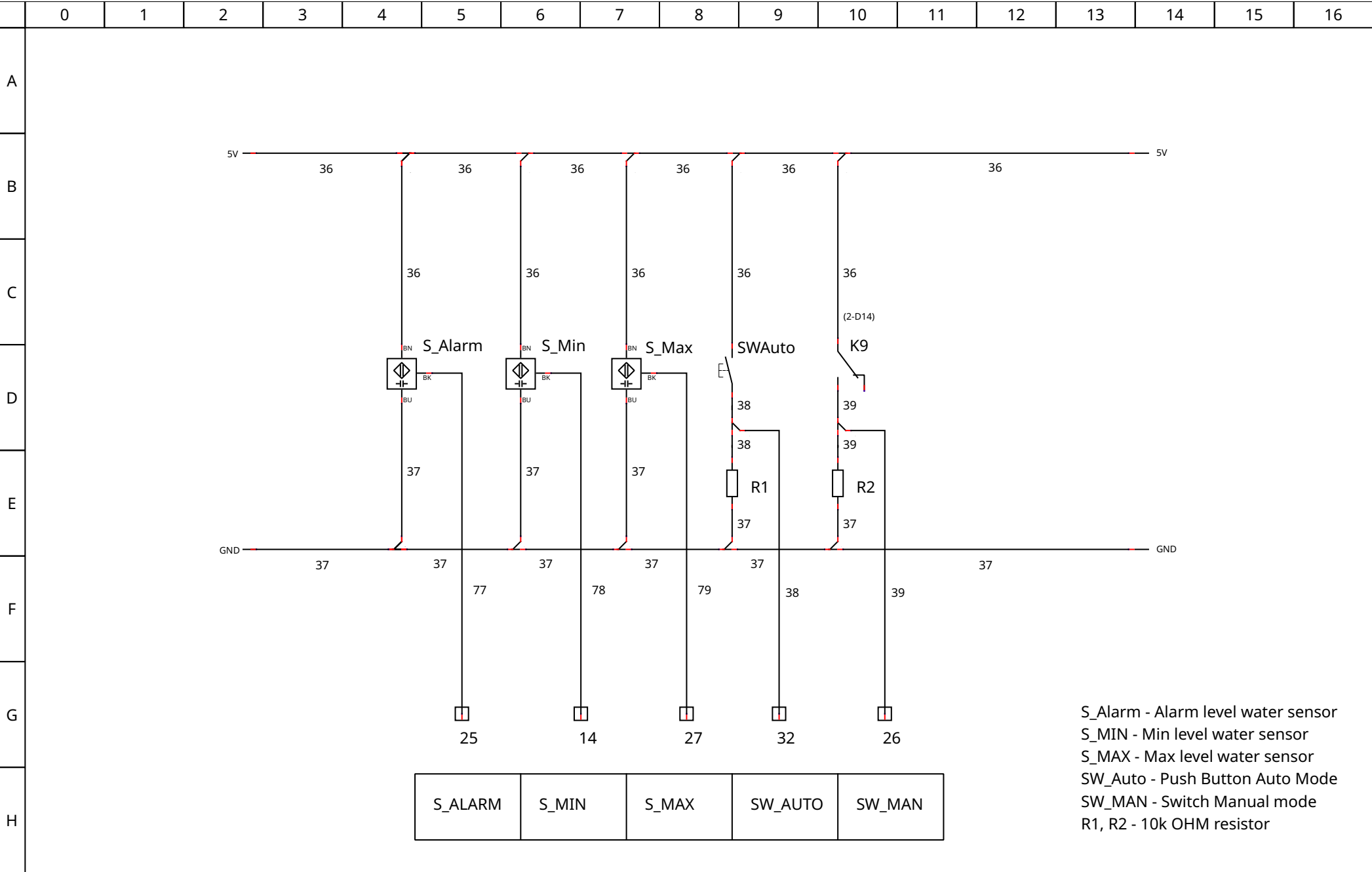


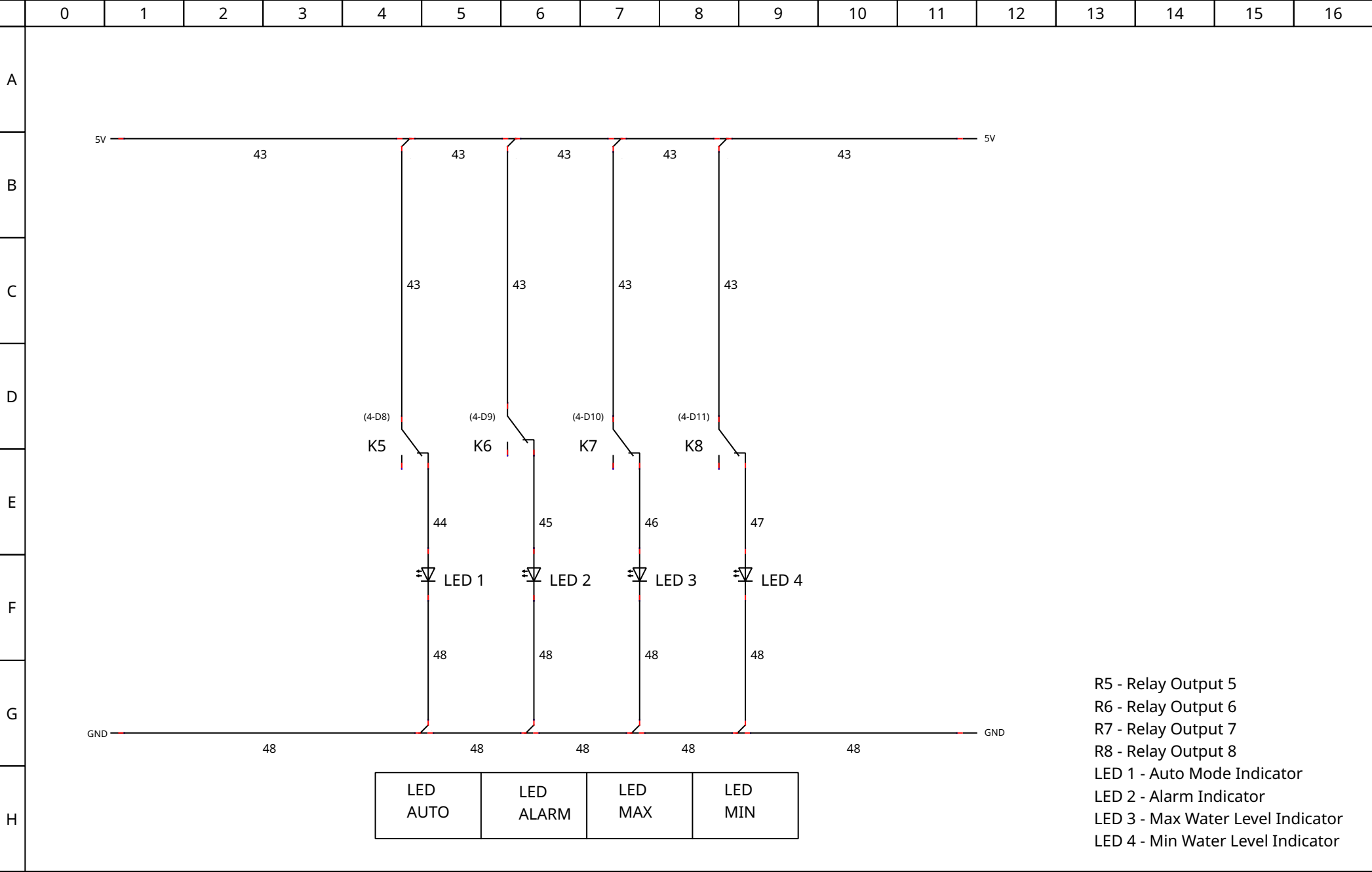
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A	<div><div><div><div>I</div><div>P</div><div>P</div></div><div>Instituto Politécnico Portalegre</div></div><div><div><div>P</div></div><div>POLITÉCNICO DE PORTALEGRE</div><div>Escola Superior de Tecnologia e Gestão</div></div></div> <h1>Intelligent Destiller</h1> <div><div><div><b>DOCENTE:</b> Sérgio Correia</div><div><b>DISCENTES:</b> Sérgio Carmo</div><div>N.º 19749</div></div></div>																
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Author: Sérgio Carmo				Cover								File:					
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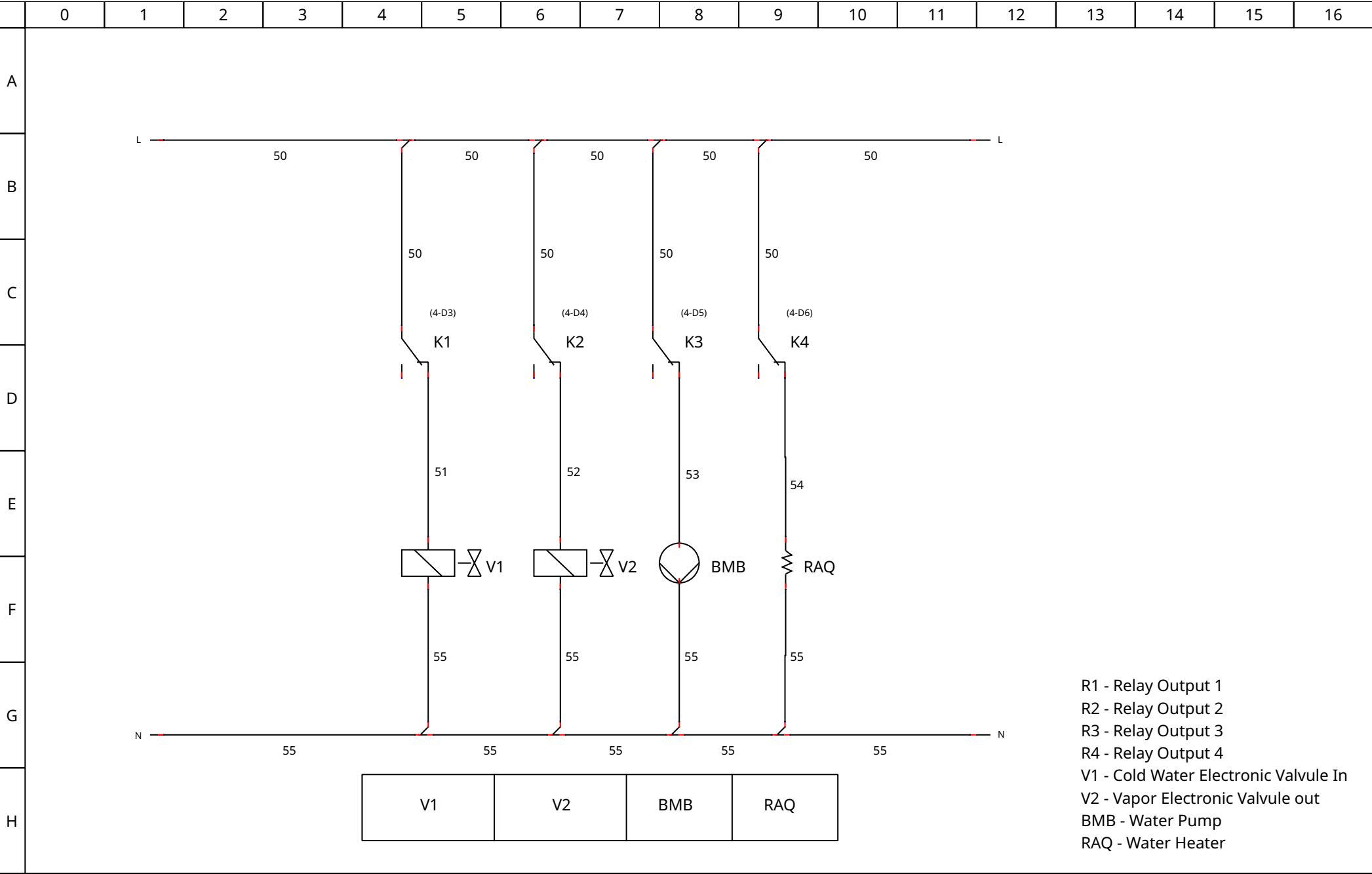












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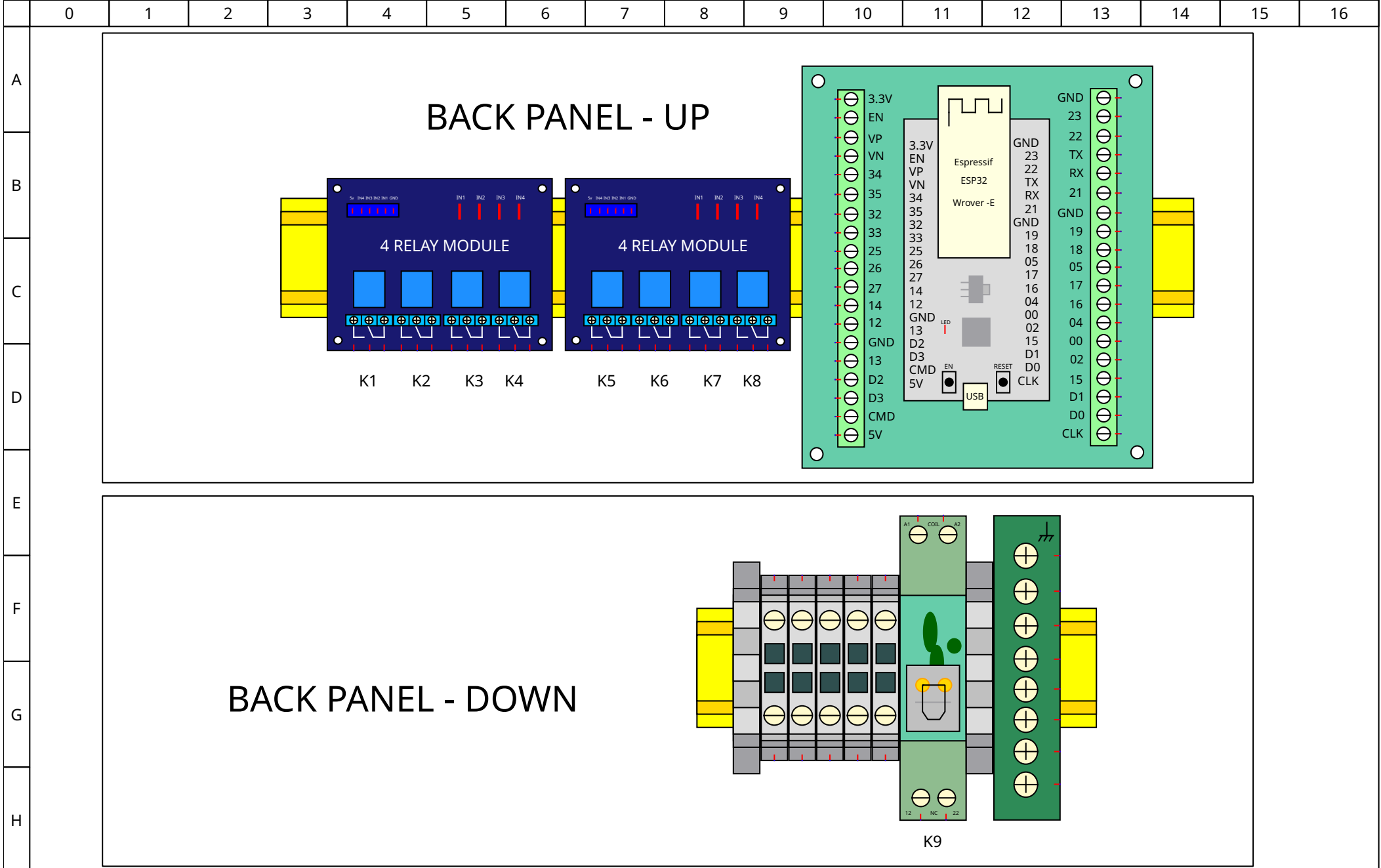
The front panel is a light blue rectangular area containing three main sections:

- POWER:** A green digital display showing '1' over '0'.
- STEAM:** A section with two indicator lights (one orange, one green) and a green digital display showing '1' over '0'. Labels include 'AUTO IND', 'AUTO SW', 'MANUAL', and 'STEAM'.
- GENERATOR:** A section with a level indicator (a vertical bar with horizontal lines) and three indicator lights (green, orange, red). Labels include 'MAX', 'MIN', 'ALARM', 'LEVEL', and 'GENERATOR'.

The side panel is a grey rectangular area containing the following components:

- Output DC:** A terminal block with two terminals labeled '+' and '-'.
- DC OK:** A green indicator light.
- STEP POWER:** A vertical label.
- Input AC:** A terminal block with two terminals labeled 'L' and 'N'.
- Q1:** A relay or switch component with a green '1-ON' indicator.





	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A																	
B																	
C	Quantity	Description						Manufacturer		Ref. Manufacturer		Supplier		Ref. Supplier			
	1	Circuit Breaker 16A						Schneider Eletric		iDPN N C 16A		se.com		A9N21547			
	1	Main Switch With Built-in 240V Neon Indicator															
	1	STEP-PS/ 1AC/ 5DC/2 - Power supply unit						Phoenix Contact		2320513		Mouser.com		651-2320513			
	1	DIN Rail Terminal Blocks UK 5-HESI N (Fuse 1A)						Phoenix Contact		651-3000539		Mouser.com		3000539			
D	1	Esp32-Wrover-E						Espresslf		ESP32_DevKitc_V4		Mouser.com		356-ESP32WRVE22864PC			
	1	Terminal Adapter for ESP_32 (38-pin)								616							
	2	4-Channel 5V Relay Module						SAINSMART		2PH63083A							
	3	Optical liquid level sensor						Cynergy3		OLS710D3SH		Mouser.com		285-OLS710D3SH			
	1	Push Button															
E	1	Relay 250V 2x2A						Phoenix Contact		2987972		Mouser.com		651-2987972			
	1	Relay base 300VAC 12A						Phoenix Contact		28 33 521		Mouser.com		651-2833521			
	2	10k ohm Resistor															
	4	5V LED Indicator Red/Orange/Green (10mm)						Gebildet		E738A							
	2	240V Water Valve 0-12 Bar						M&M		B297DVE							
F	1	240V Oscillating Pump						Gorman Rupp Industries		14825-669							
	1	240V Water Heater															
	1	Push Switch Button With Built-in 240V Neon Indicator															
	29	DIN Rail Terminal Blocks SRL 3 (Bus Connector)						Weidmuller		2614930000		Mouser.com		470-2614930000			
	1	DIN Rail Connector 8 Outputs															
G	4	DIN Rail Terminal Blocks SRL 3						Weidmuller		2614930000		Mouser.com		470-2614930000			
H																	