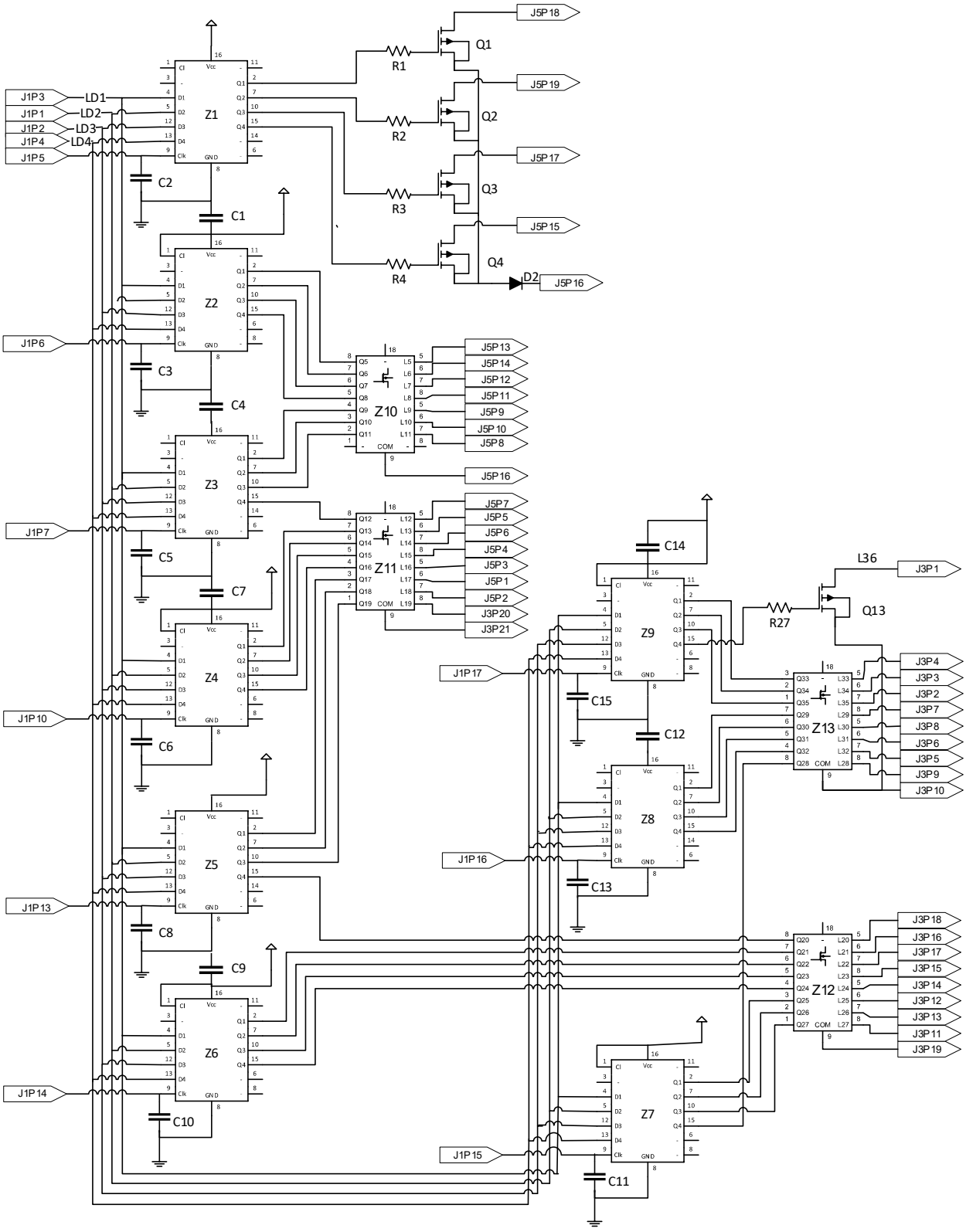
The Ni-Wumpf
System 1 Driver Board

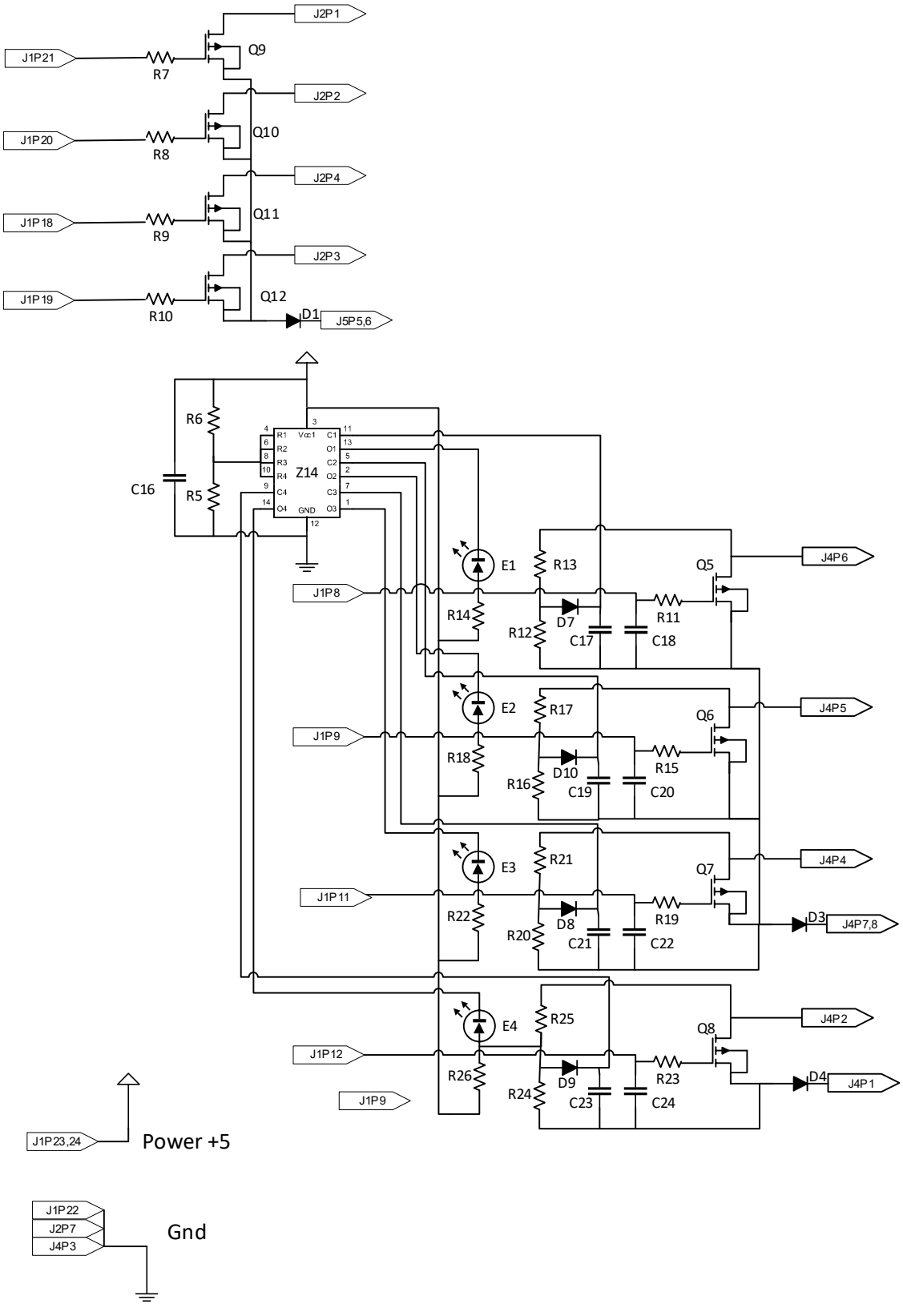
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Revision A

Schematic supplement for the
Ni-Wumpf System 1 Driver Board



Schematics – Ni-Wumpf System Driver Board - Lamps



Schematics - Ni-Wumpf System Driver Board - Coils

Designator	Qty	Description
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24	24	0.1uF,50V, 10%,X7R,0603
C0	1	100uF,25V,20%, SMD Electrolytic Capacitor
R1 R2 R3 R4 R7 R8 R9 R10 R27	9	1K ohm,1%,100mW,0603
R12 R16 R20 R24	4	1M ohm,1%,100mW,0603
R14 R18 R19 R22 R26 R11 R15 R23	8	2.2K ohm,1%,100mW,0603
R5 R6	2	3.3K ohm,1%,100mW,0603
R13 R17 R21 R25	4	4.7M ohm,1%,100mW,0603
Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8 Z9	9	CD74HCT175, SOIC16
Q1 Q2 Q3 Q4 Q9 Q10 Q11 Q12 Q13	9	DMN6025S, 60V, 3A MOSFETs, SOT-23
E1 E2 E3 E4	4	KT-0603R, 2.4v LED, 0603
Z14	1	LM339, CMOS, TSSOP-14
Q5 Q6 Q7 Q8	4	PSMN015-60BS-VB, N-Channel, 60V 75A
D1 D2 D3 D4	4	SL1G / 1N4007W, SOD-123
Z10 Z11 Z12 Z13	4	ULN2603G, Darlington transistor array, SOP-18

Table 1 – Bill of Materials for the Ni-Wumpf Driver Board