Digital Side Car Revision 7

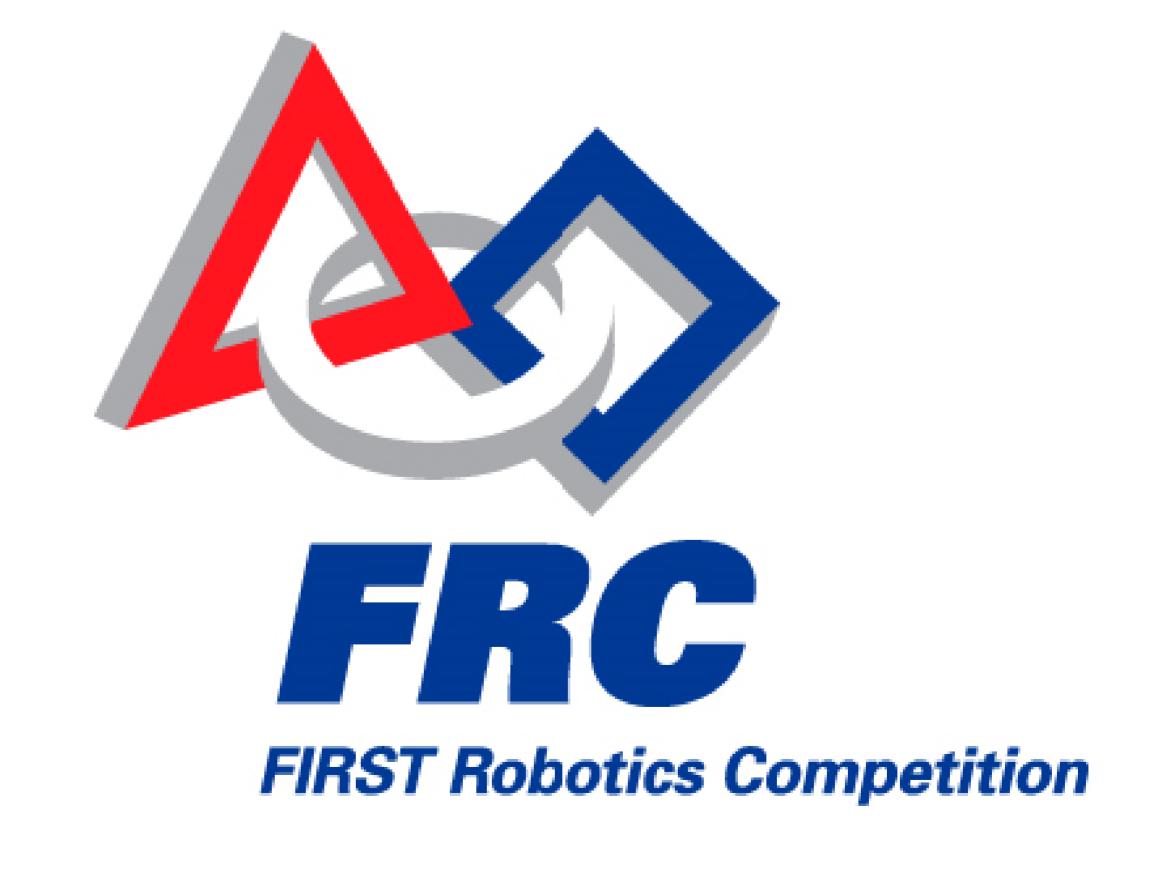
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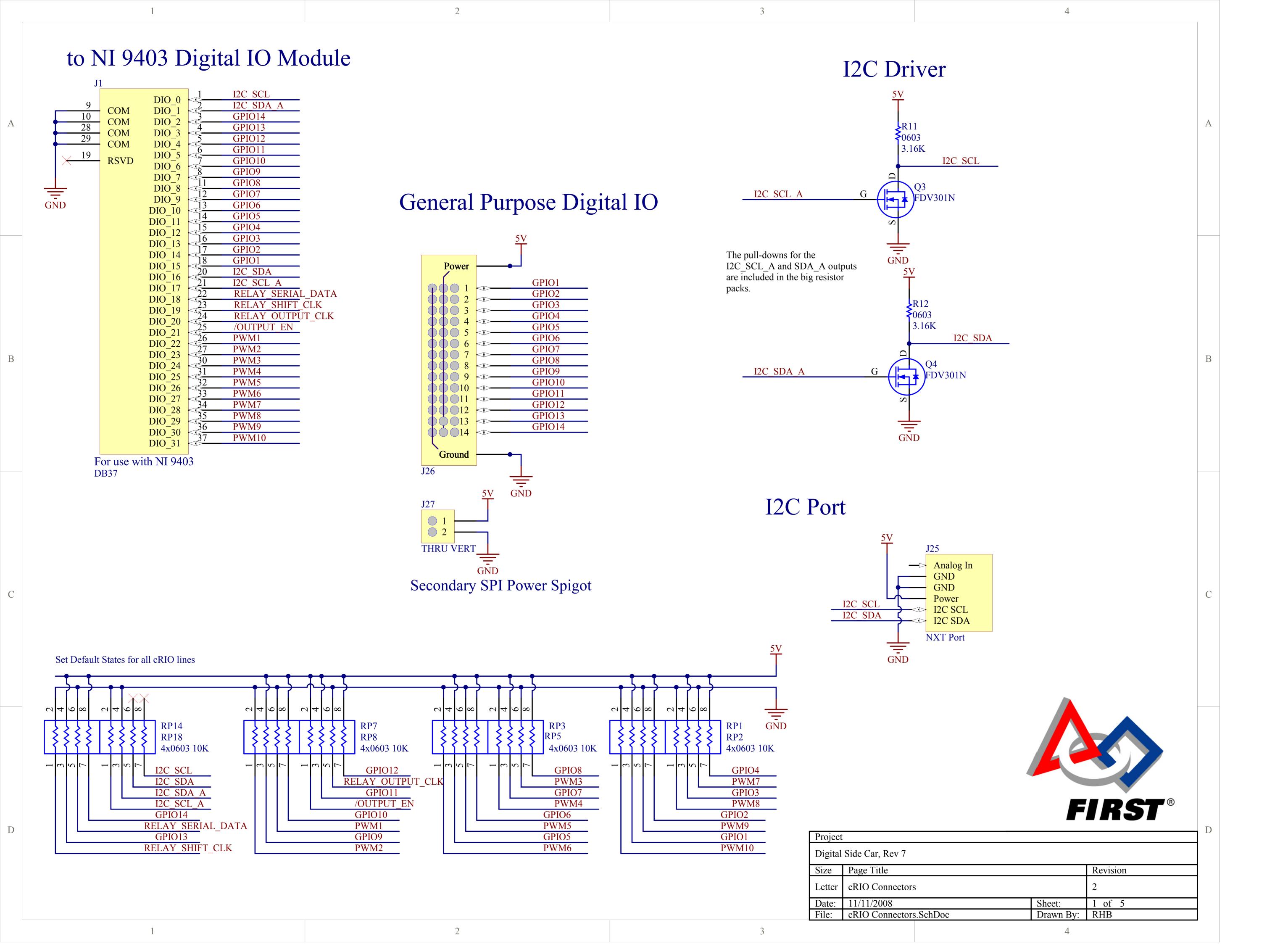
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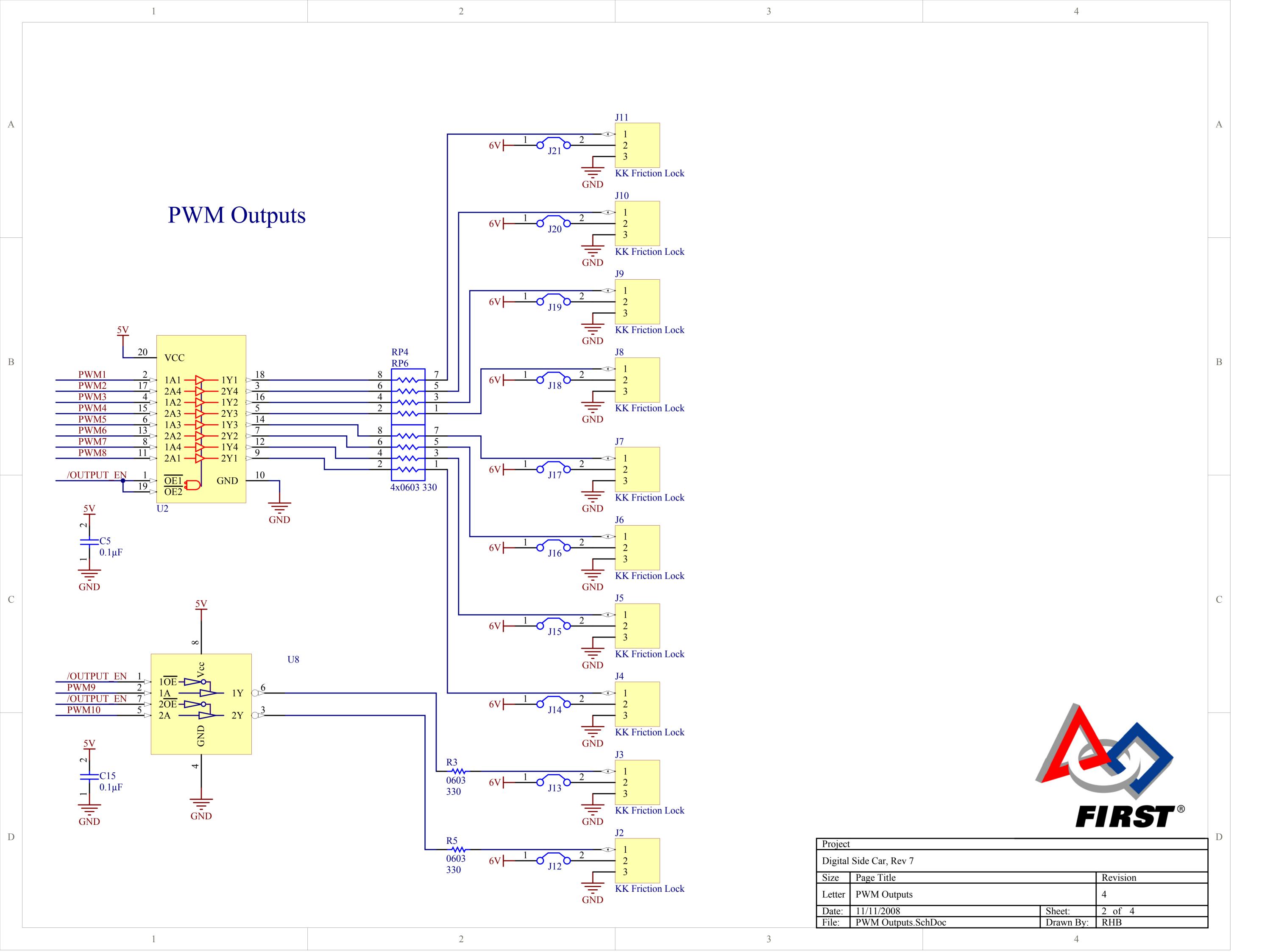
Consult the FRC Robot Rules before modifying any components. Modifying a component may invalidate its use in the FRC competition and may be dangerous.

Derivative works may or may not be allowed in the FRC competition. Consult the FRC Robot Rules for details.

These design packages are made available primarily to serve as an educational tool. Mentors are strongly encouraged to use them to help their students learn more about electronics.

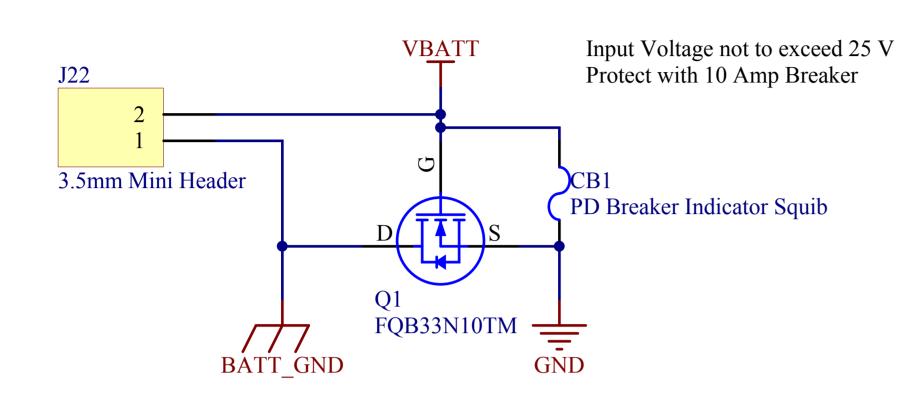


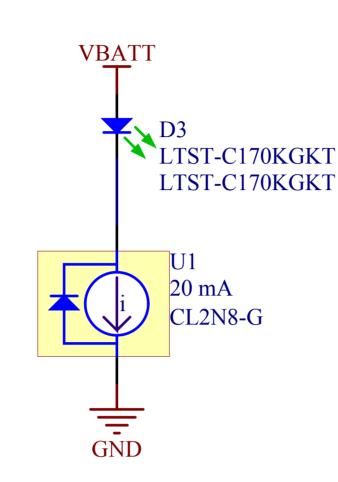






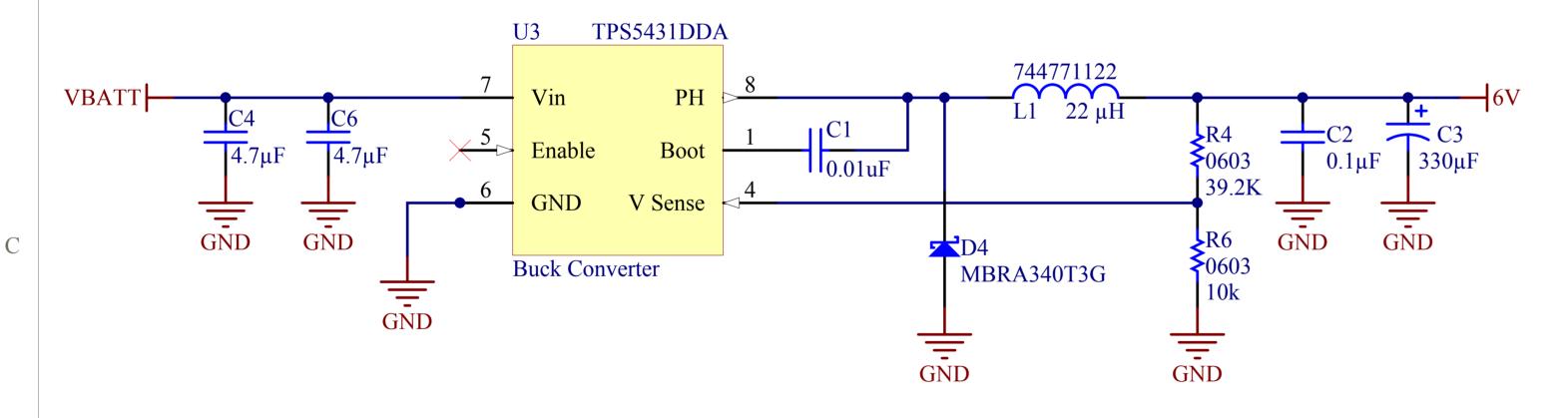
Power Input with Reverse Voltage Protection

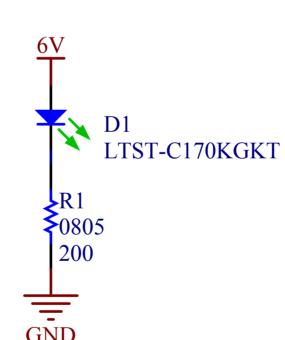




VBATT CB2 1.1 A Hold, 2.2 A Trip D7 D5 ES2A-13-F LTST-C170KGKT D7 R9 1206 680 R10 0603 10k GND GND

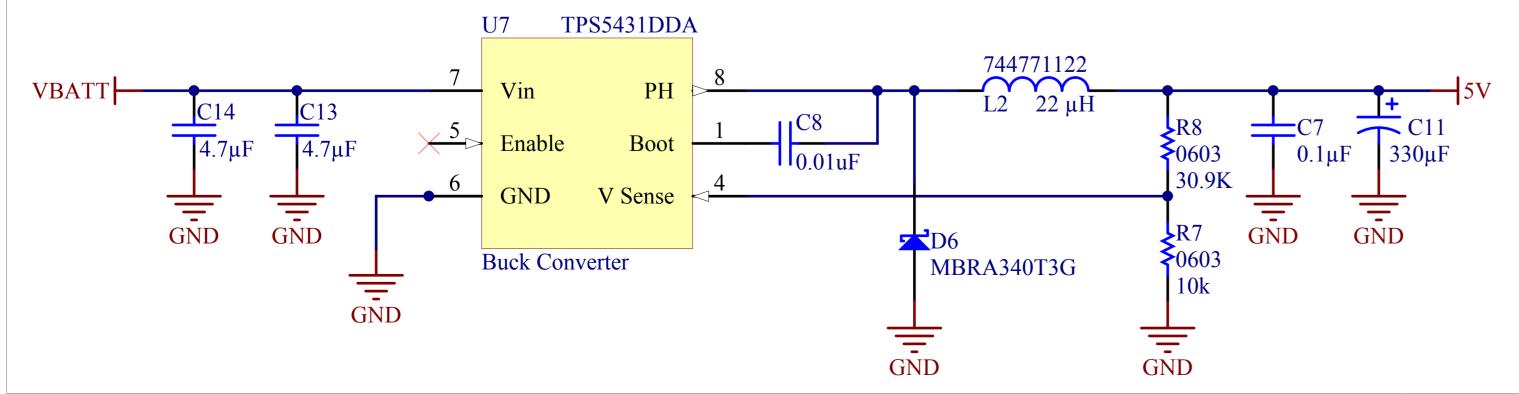
6V/3A Buck Supply

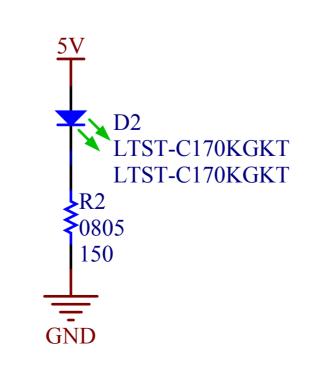




Change List:
Removed Zeners from LEDs - UVLO from the
TPS covers that functionality.
Flipped BFL connector to match standard power scheme.

5V/3A Buck Supply

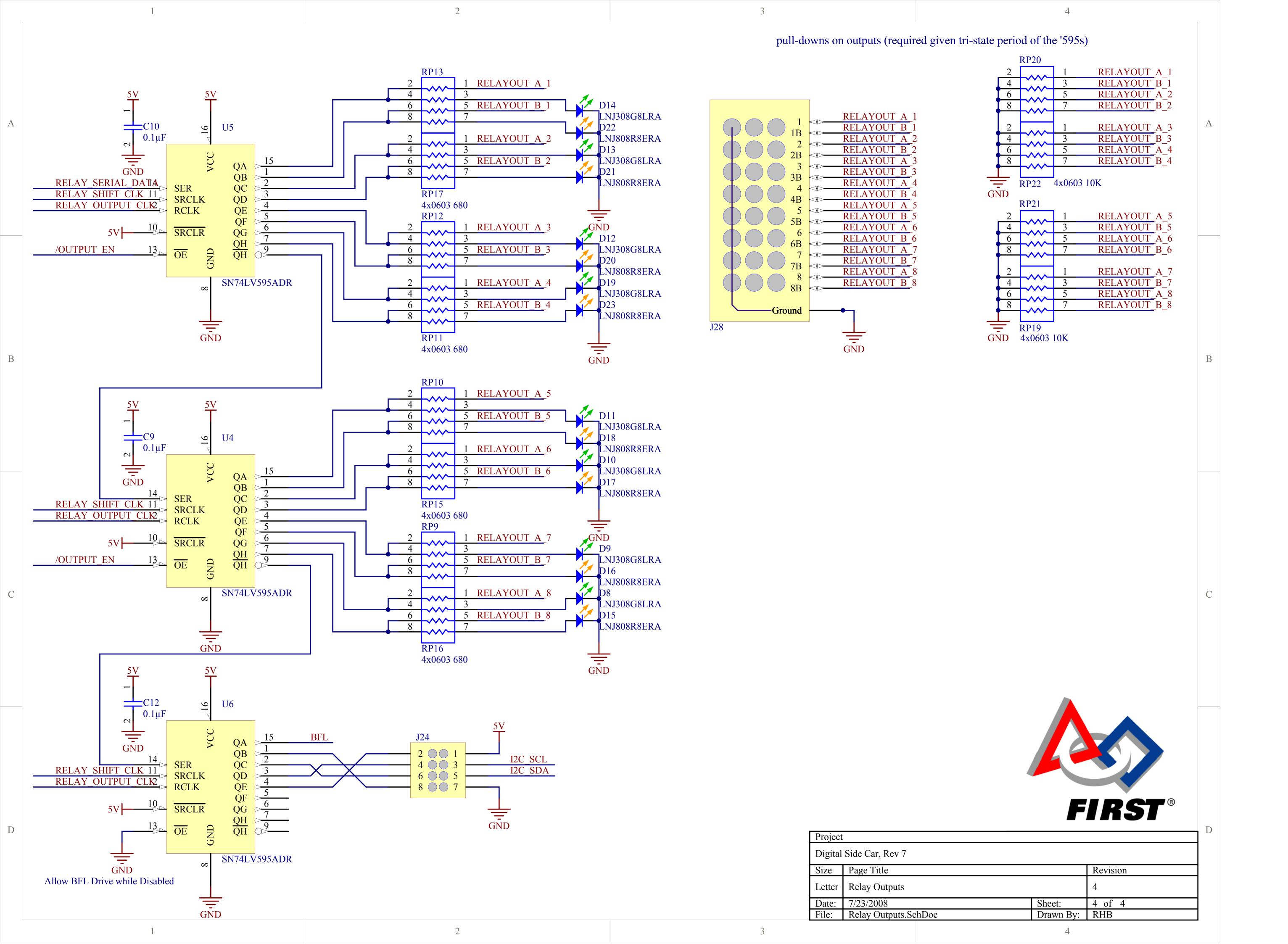


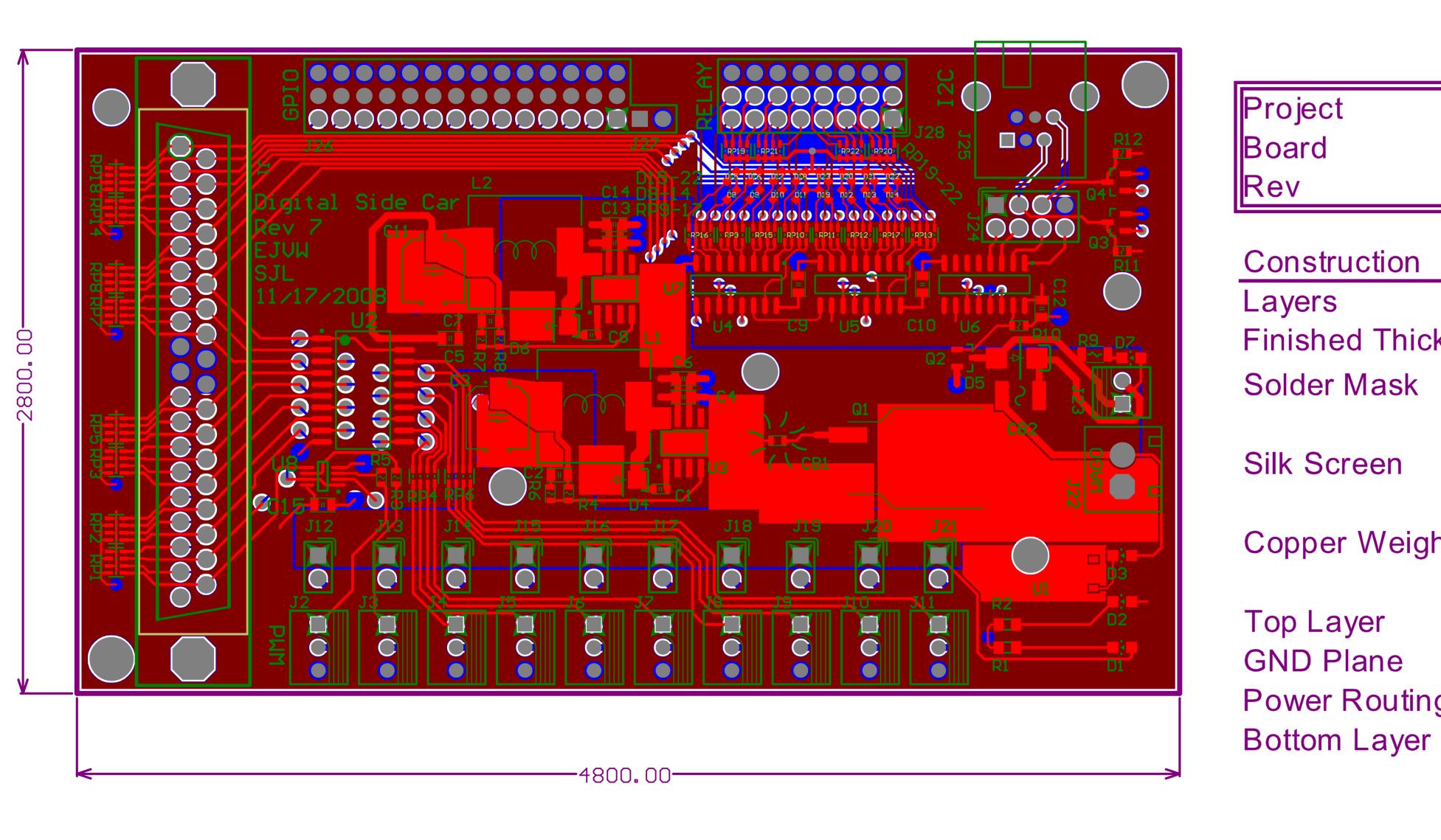




Project				
Digital Side Car, Rev 7				
Size	Page Title		Revision	
Letter	Power Input, Supplies & Indicators		3	
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File:	Power.SchDoc	Drawn By:	RHB	
		_		

4





Project	Phoenix
Board	Digital Side Car
Rev	7

Construction

Construction			
Layers	4		
Finished Thickness	062 +/- 30%		
Solder Mask	Unspecified Color		
	Top & Bottom		
Silk Screen	Unspecified Color		
	Top Only - Ignore Bottom Silk		
Copper Weight	1/2 oz or thicker		
Top Layer	.gtl		
GND Plane	.gp1		
Power Routing	.g1		
Bottom Layer	.gbl		