

Alex Davenport
MASA

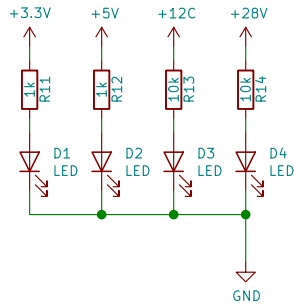
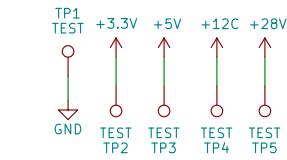
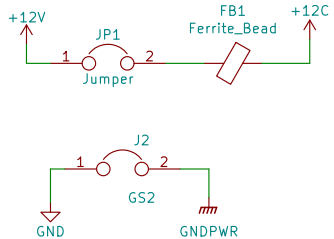
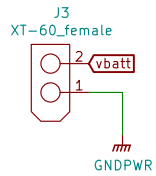
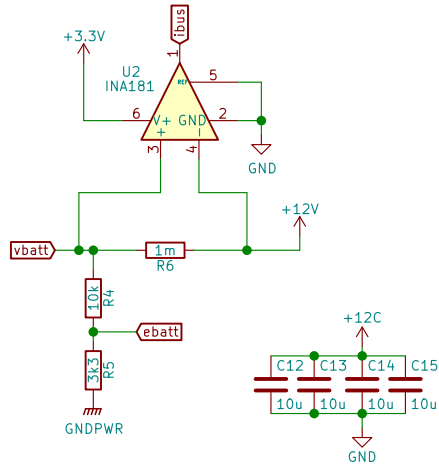
Sheet: /
File: prop_support.sch

Title: Prop Support Board

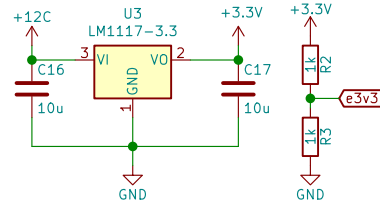
Size: A4 Date: 2019-03-27
KiCad E.D.A. eeschema (5.1.0)-1

Rev: A
Id: 1/14

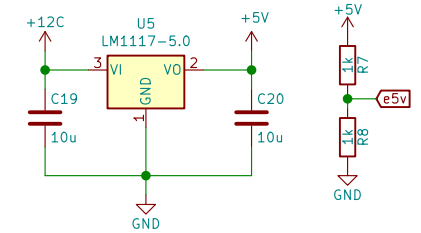
Bus Telemetry



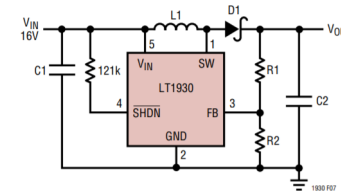
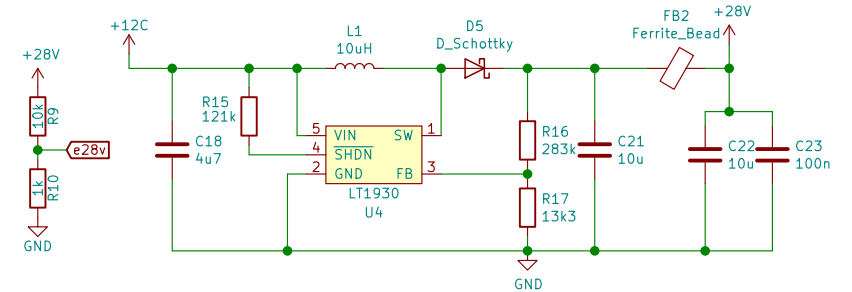
3.3V Linear Regulator



5V Linear Regulator



28V Boost Converter



SETTING OUTPUT VOLTAGE

To set the output voltage, select the values of R1 and R2 (see Figure 1) according to the following equation.

$$R1 = R2 \left(\frac{V_{OUT}}{1.255V} - 1 \right)$$

A good value for R2 is 13.3k which sets the current in the resistor divider chain to $1.255V/13.3k = 94.7\mu A$.

Alex Davenport
MASA

Sheet: /power/
File: power.sch

Title: Prop Support Board

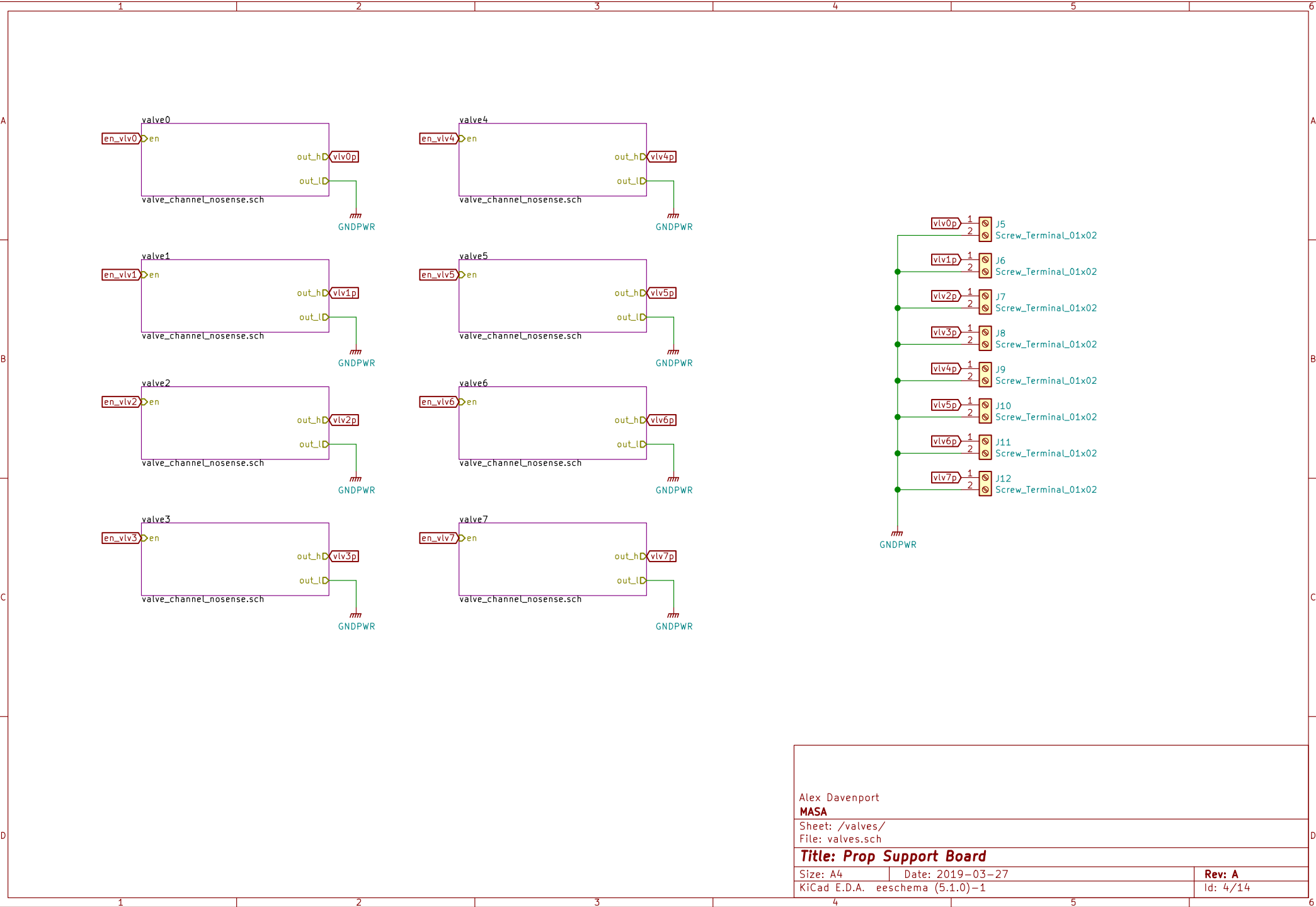
Size: A4 Date: 2019-03-27

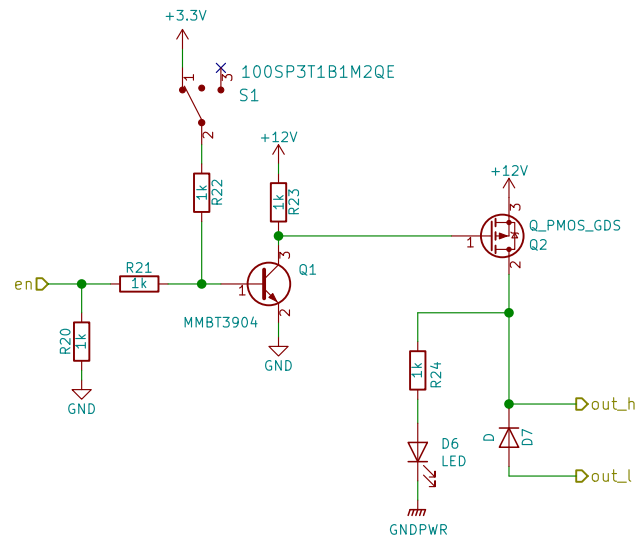
KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 2/14







Alex Davenport
MASA

Sheet: /valves/valve0/
 File: valve_channel_nosense.sch

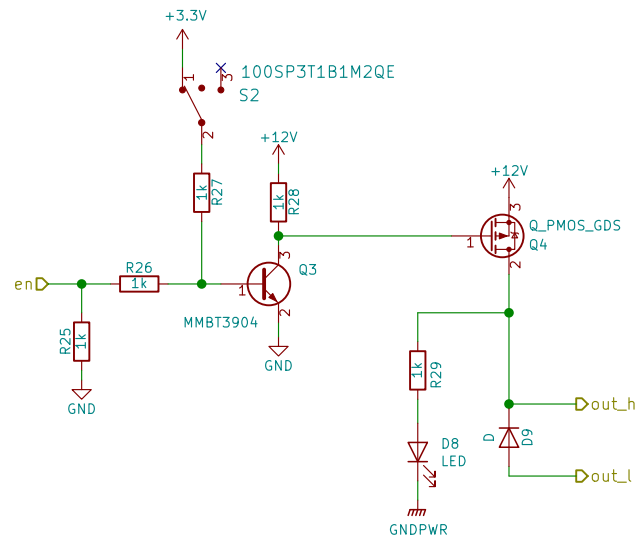
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 5/14



Alex Davenport
MASA

Sheet: /valves/valve1/
 File: valve_channel_nosense.sch

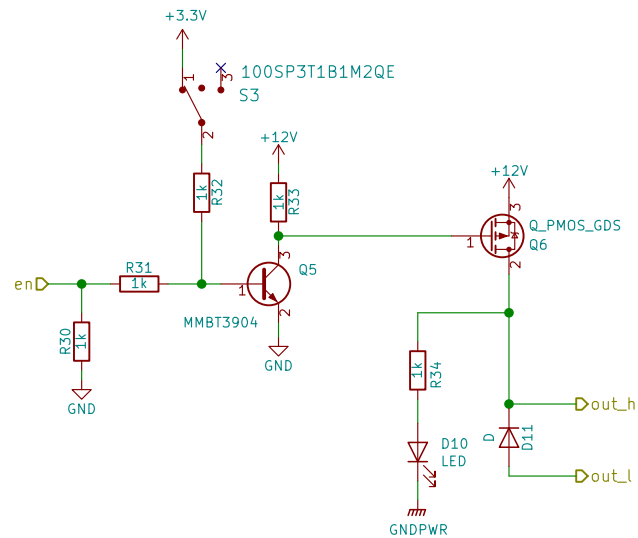
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 6/14



Alex Davenport
MASA

Sheet: /valves/valve2/
 File: valve_channel_nosense.sch

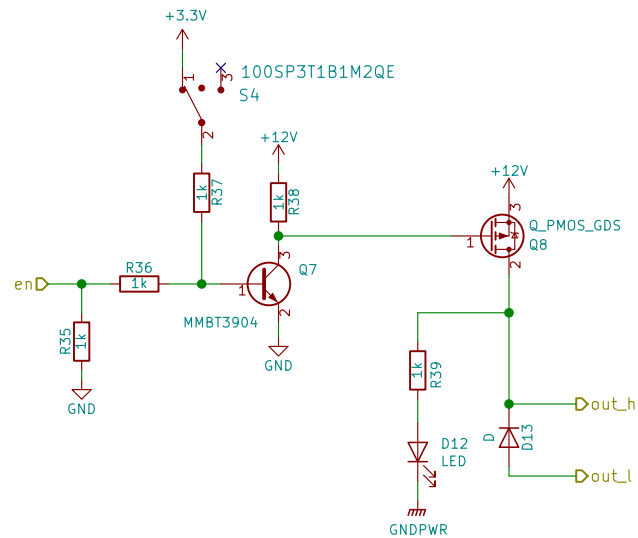
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 7/14



Alex Davenport
MASA

Sheet: /valves/valve3/
 File: valve_channel_nosense.sch

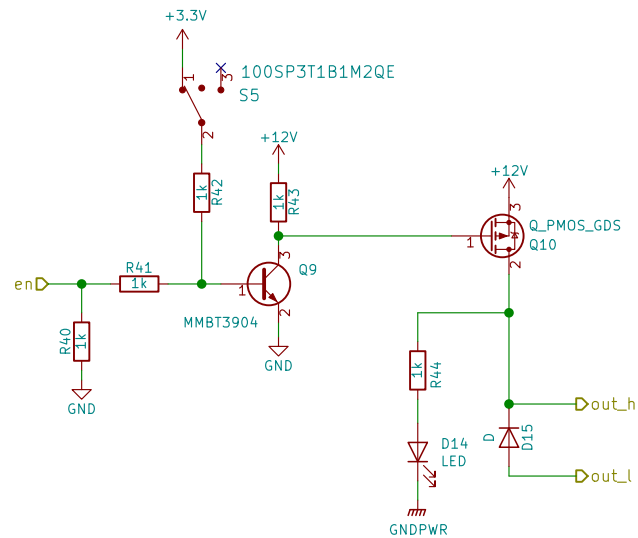
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 8/14



Alex Davenport
MASA

Sheet: /valves/valve4/
 File: valve_channel_nosense.sch

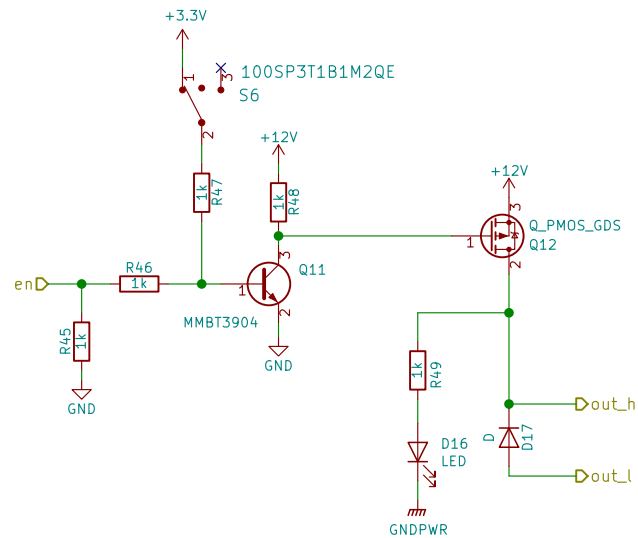
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 9/14



Alex Davenport
MASA

Sheet: /valves/valve5/
 File: valve_channel_nosense.sch

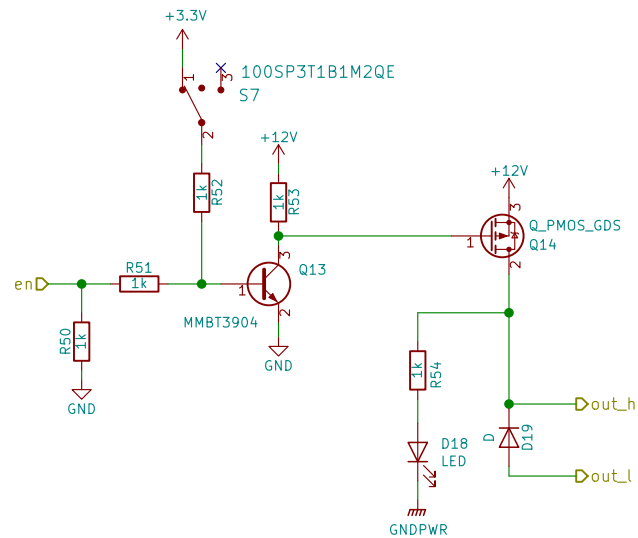
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 10/14



Alex Davenport
MASA

Sheet: /valves/valve6/
 File: valve_channel_nosense.sch

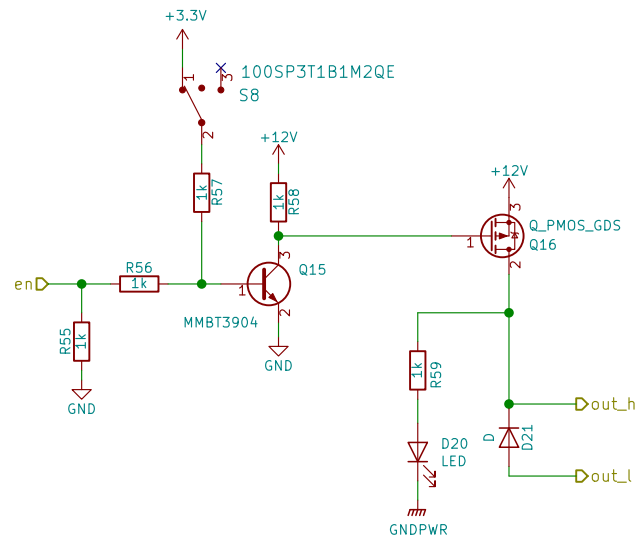
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 11/14



Alex Davenport
MASA

Sheet: /valves/valve7/
 File: valve_channel_nosense.sch

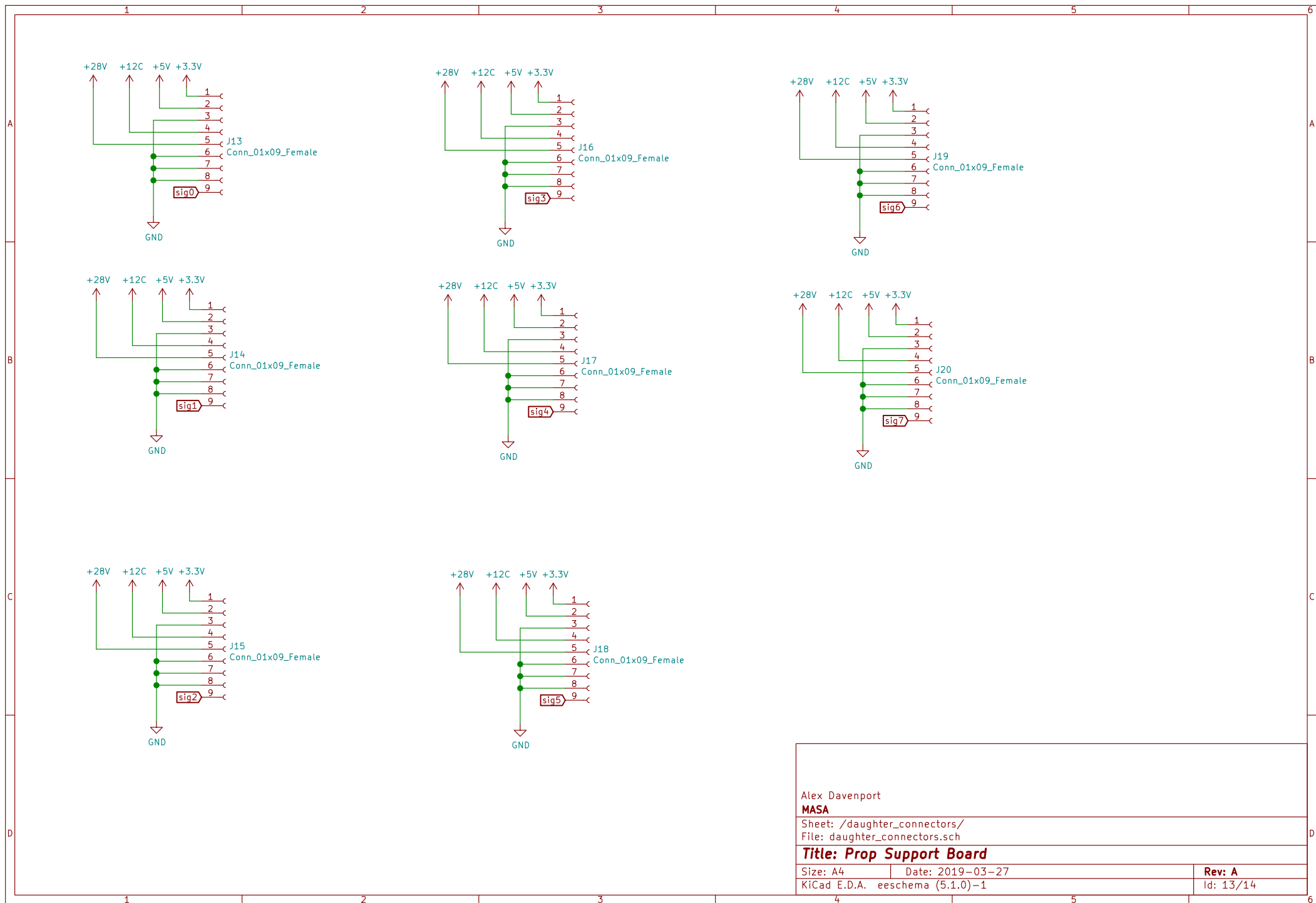
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 12/14



Alex Davenport
MASA

Sheet: /daughter_connectors/
File: daughter_connectors.sch

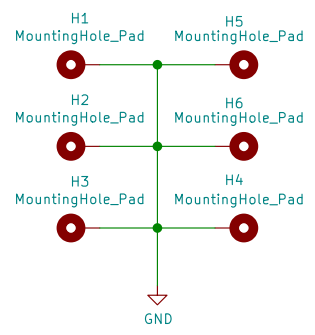
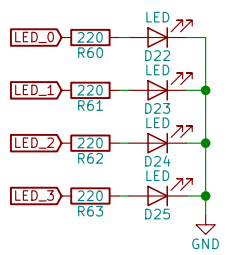
Title: Prop Support Board

Size: A4 Date: 2019-03-27

KiCad E.D.A. eeschema (5.1.0)-1

Rev: A

Id: 13/14



Alex Davenport		
MASA		
Sheet: /misc/		
File: misc.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	Rev: A
KiCad E.D.A. eeschema (5.1.0)-1		Id: 14/14