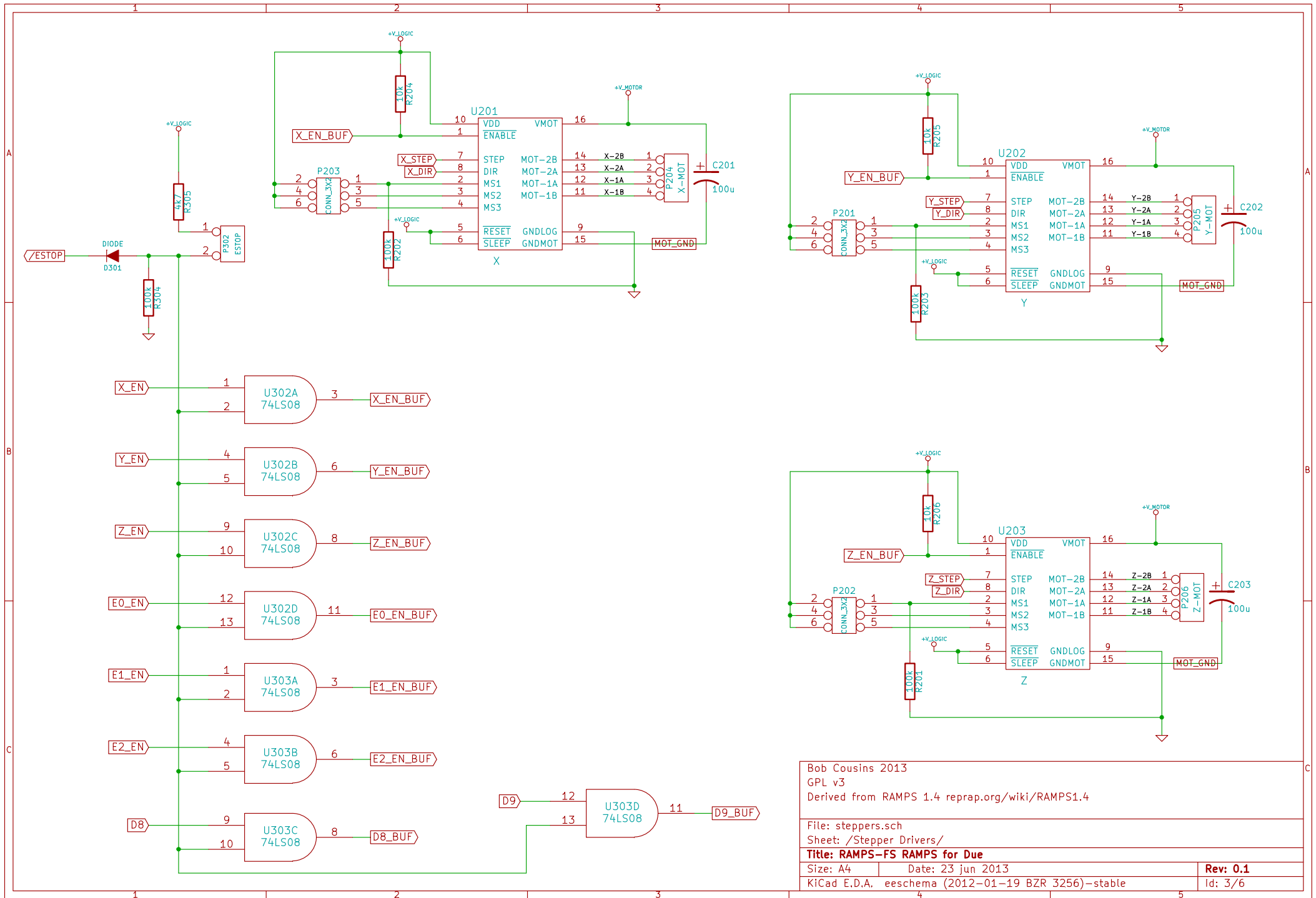


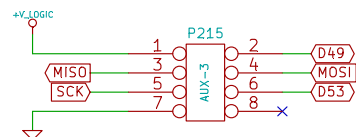
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Sheet: /Stepper Drivers 2/		
<b>Title:</b>		
Size: A4	Date: 23 jun 2013	Rev:
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 2/6



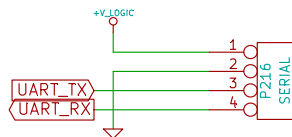
Bob Cousins 2013  
 GPL v3  
 Derived from RAMPS 1.4 [reprap.org/wiki/RAMPS1.4](http://reprap.org/wiki/RAMPS1.4)

File: steppers.sch  
 Sheet: /Stepper Drivers/  
**Title: RAMPS-FS RAMPS for Due**

Size: A4	Date: 23 jun 2013	Rev: 0.1
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 3/6

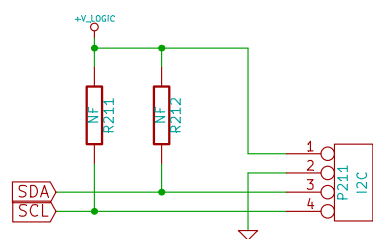


Aux3-SPI



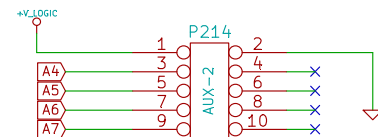
TTL 3V3 or 5V compatible

UART-TTL

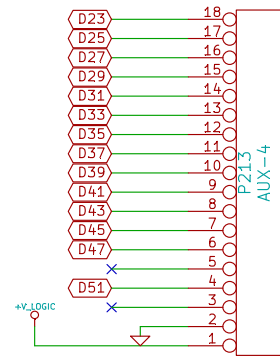


I2C

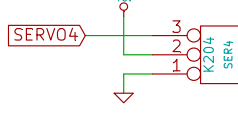
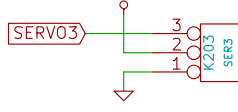
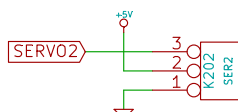
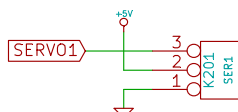
1k5 Pull ups on Due  
Must not have external pullups to 5V



Aux2 - spare ADC inputs



Aux4 - general IO



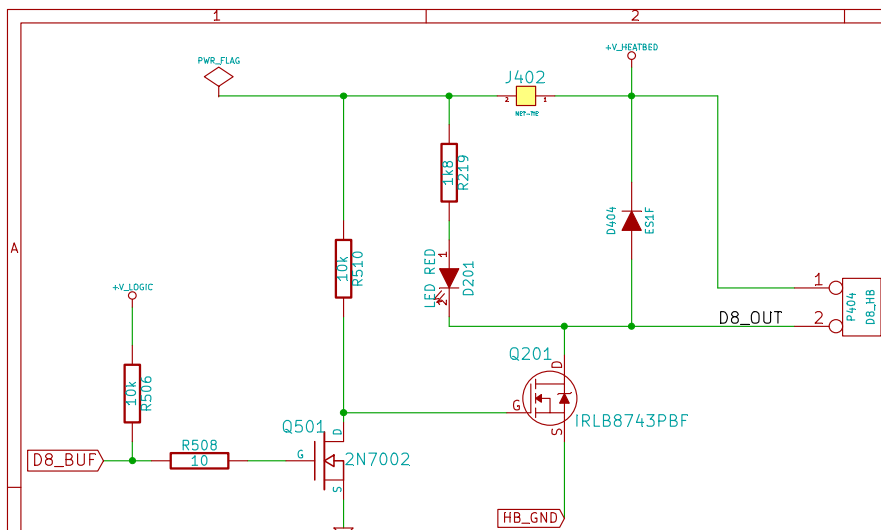
Servos

Need buffered outputs?

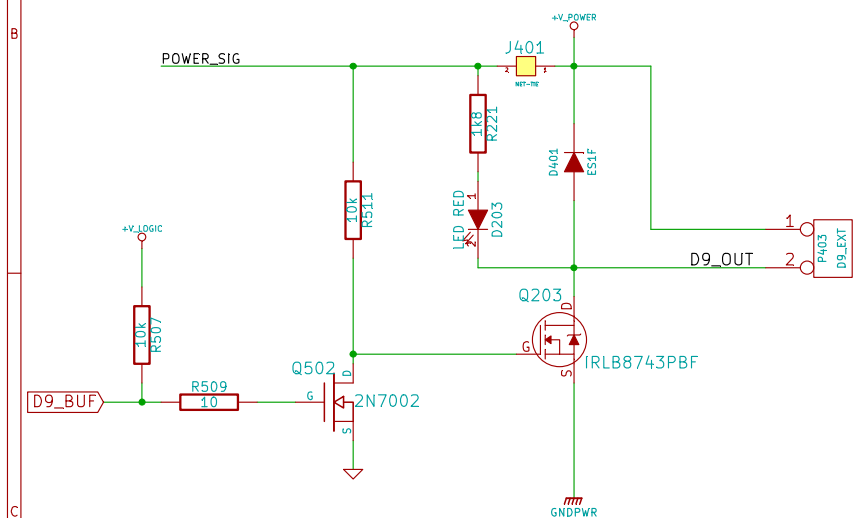
Aux connectors

Should these be 5V?

File: con_misc.sch		
Sheet: /Misc Connectors/		
<b>Title:</b>		
Size: A4	Date: 23 jun 2013	Rev:
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 4/6



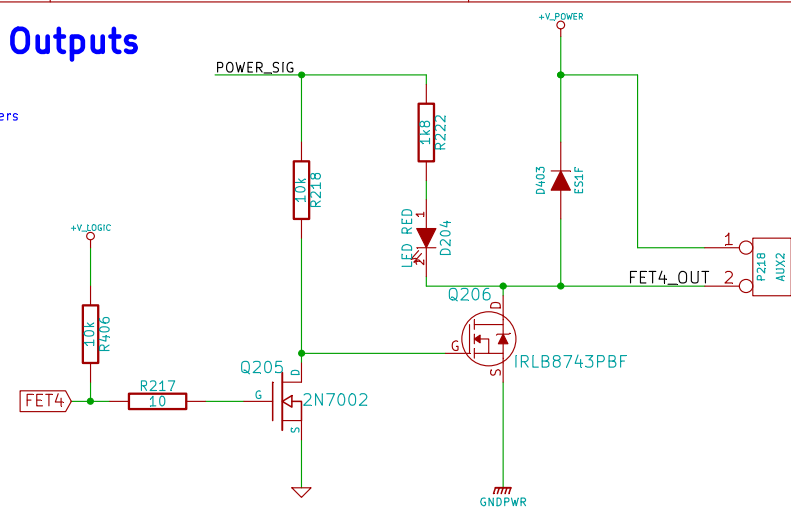
D8 – Heatbed



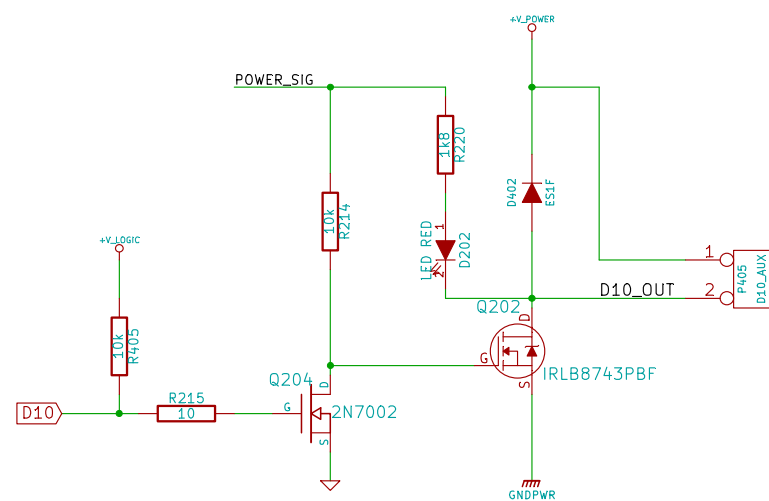
D9 – Extruder 1

## MOSFET Outputs

NB: inverting drivers

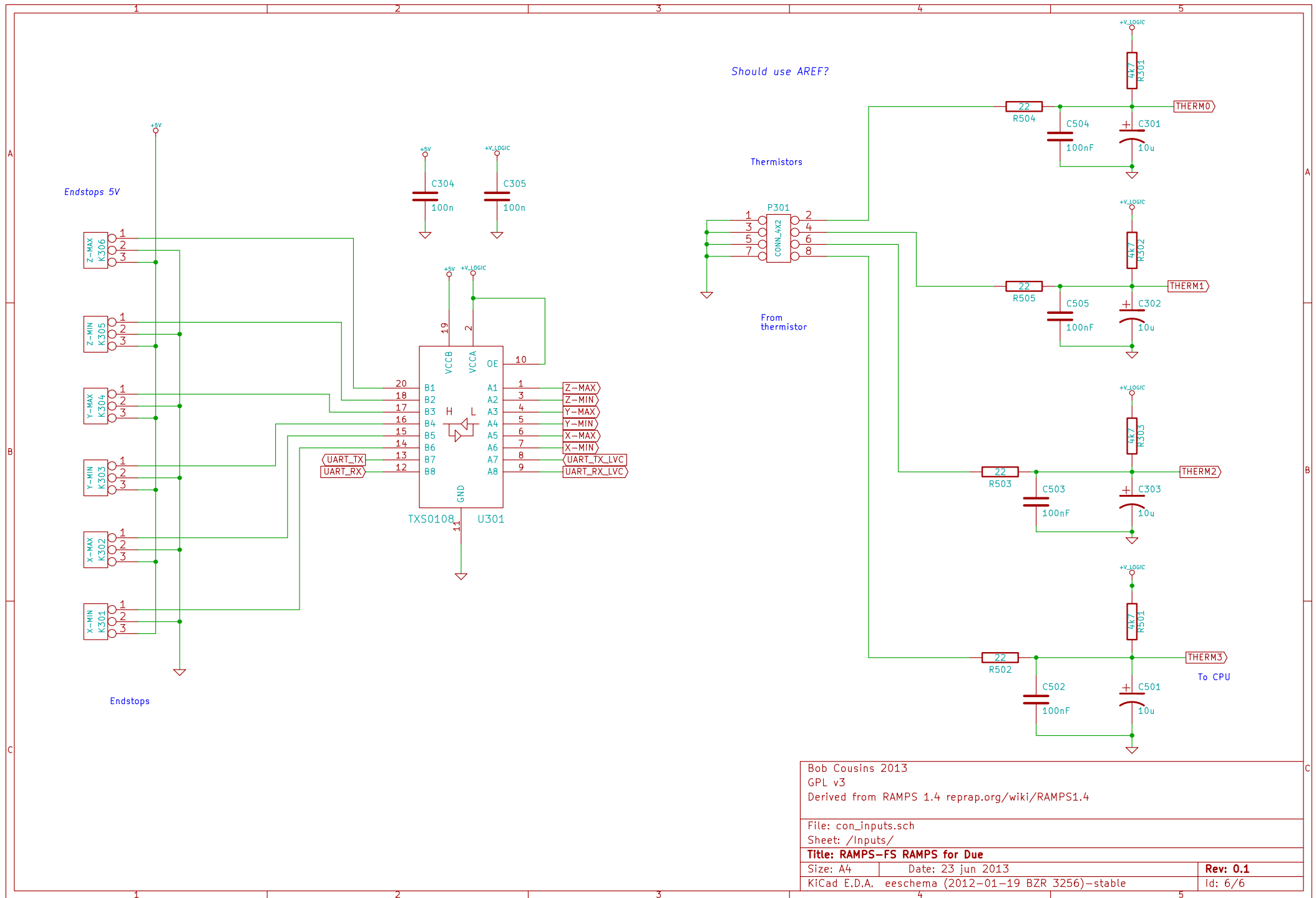


FET4 – Extruder 3 / Fan



D10 – Extruder 2 / Fan

File: con_outputs.sch		
Sheet: /Outputs/		
<b>Title:</b>		
Size: A4	Date: 23 jun 2013	<b>Rev:</b>
KiCad E.D.A.	eeschema (2012-01-19 BZR 3256)-stable	Id: 5/6



Bob Cousins 2013  
 GPL v3  
 Derived from RAMPS 1.4 [reprap.org/wiki/RAMPS1.4](http://reprap.org/wiki/RAMPS1.4)

File: con\_inputs.sch  
 Sheet: /Inputs/

**Title: RAMPS-FS RAMPS for Due**

Size: A4	Date: 23 jun 2013	Rev: 0.1
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 6/6