

Title		
Size	Number	Revision
A4		
Date:	15-Jul-17	Sheet of
File:	Core.SchDoc	Drawn By:

Core  
Core.SchDoc

ENCODER\_A  
ENCODER\_B  
MOTOR\_A  
MOTOR\_B

POWER  
Power.SchDoc

ENCODER\_A  
ENCODER\_B  
MOTOR\_A  
MOTOR\_B

SENSORS  
Sensors.SchDoc

LINE\_SENSORS  
MARK\_SENSOR\_1  
MARK\_SENSOR\_2

LINE\_SENSORS  
MARK\_SENSOR\_1  
MARK\_SENSOR\_2

Communication  
Communcation.SchDoc

BLUETOOTH  
BLUETOOTH

### ARDUINO PORTS IN THIS SCHEMATIC

A0 - Motor A Digital 2  
A1 - Motor A Digital 1  
A2 -  
A3 - Battery Reader  
A4 -  
A5 - Buzzer  
D0 - RX  
D1 - TX  
D2 - SDA/Interrupt 1 (NRF 1)  
D3 - SCL/Interrupt 0 (ATMEGA 328)  
D4 - Motor B Digital 2  
D5 - PWM Motor A  
D6 - PWM Motor B  
D7 - Interrupt 6 (NRF 2)  
D8 - CE (NRF 1)  
D9 - SS ou CSN (NRF 1)  
D10 - CE (NRF 2)  
D11 - SS ou CSN (NRF 2)  
D12 - Front STATUS LEDs  
D13 - Back STATUS LEDs

- CHECKED BY JOÃO PEDRO ON 30/08/2016

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1

2

3

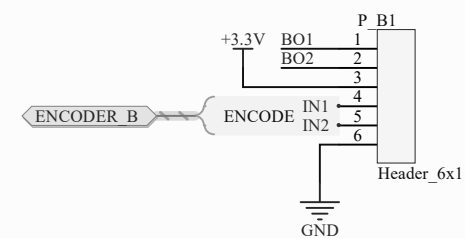
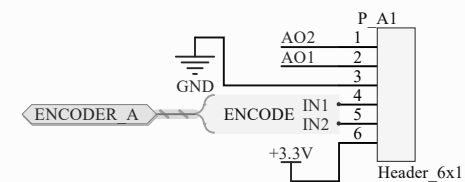
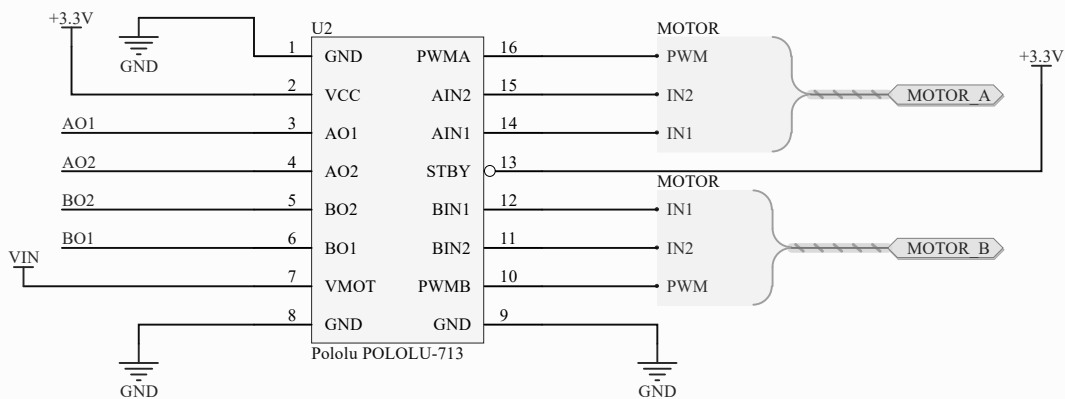
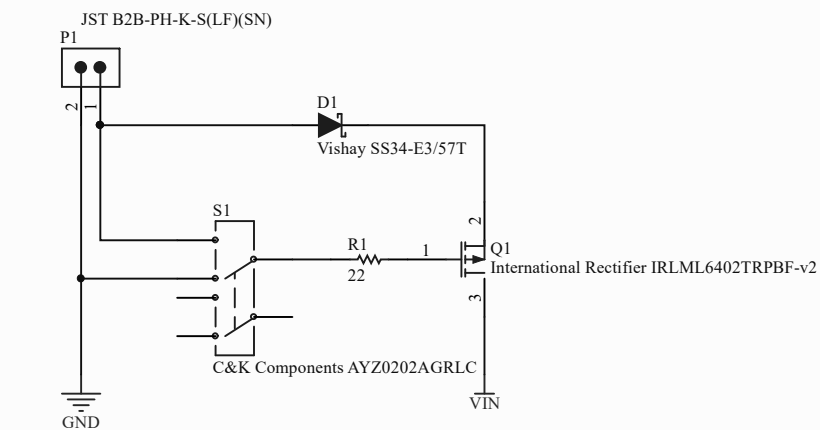
4

A

B

C

D



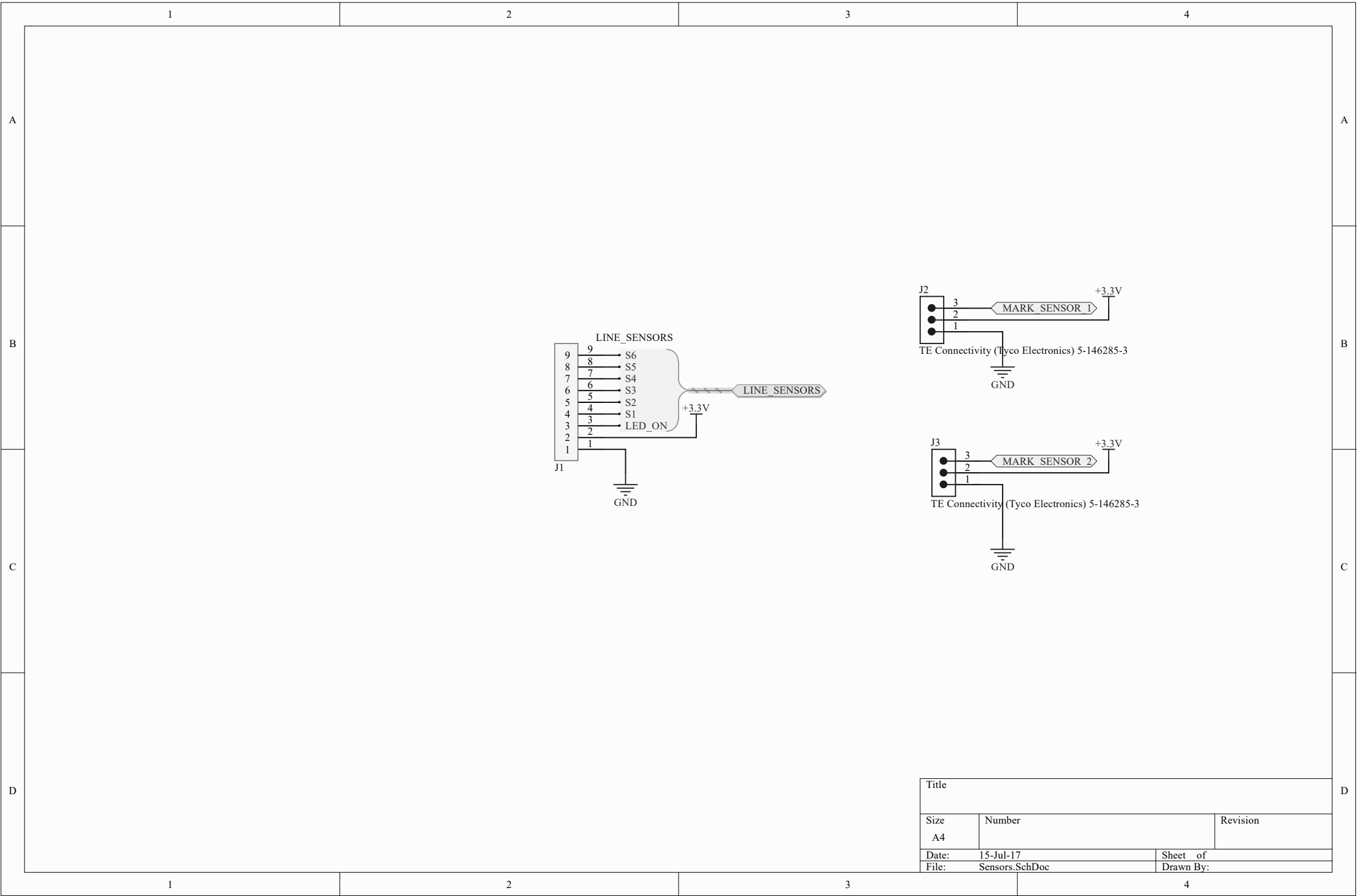
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1

2

3

4



J3

3

2

1

MARK\_SENSOR\_2

+3.3V

GND

TE Connectivity (Tyco Electronics) 5-146285-3

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