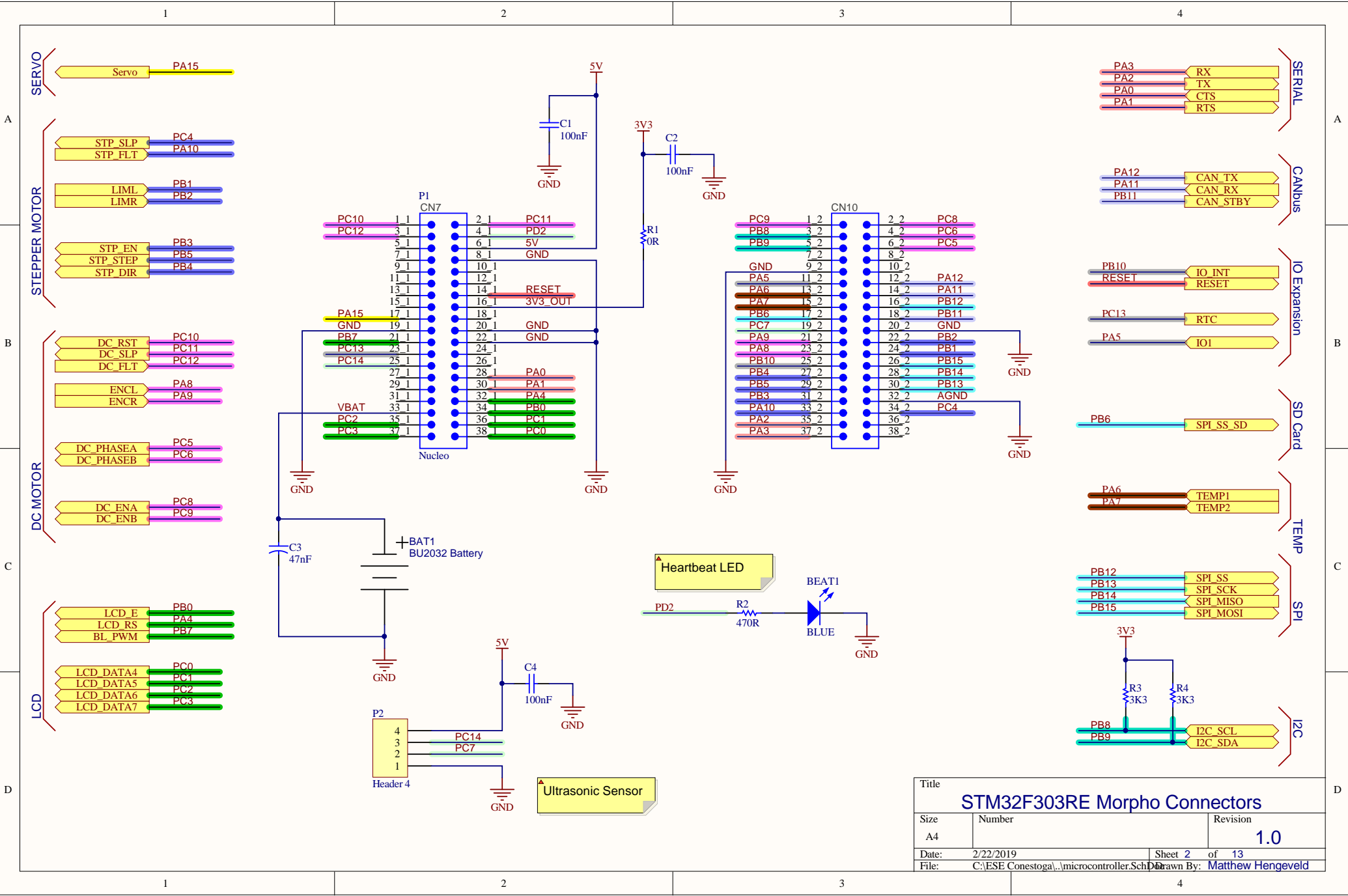
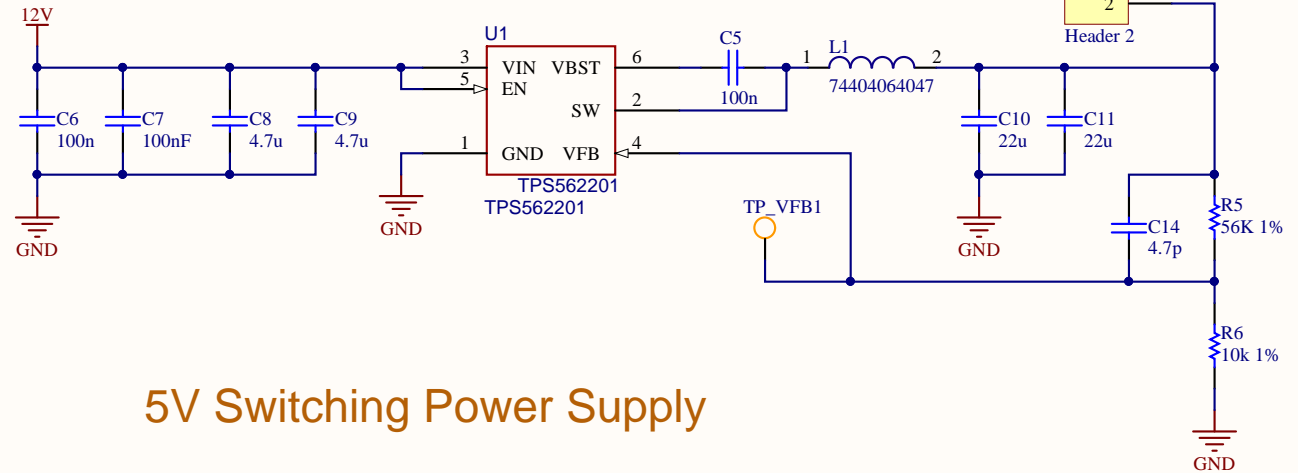
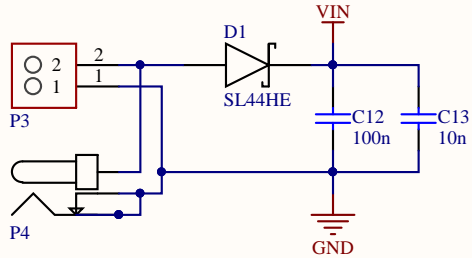


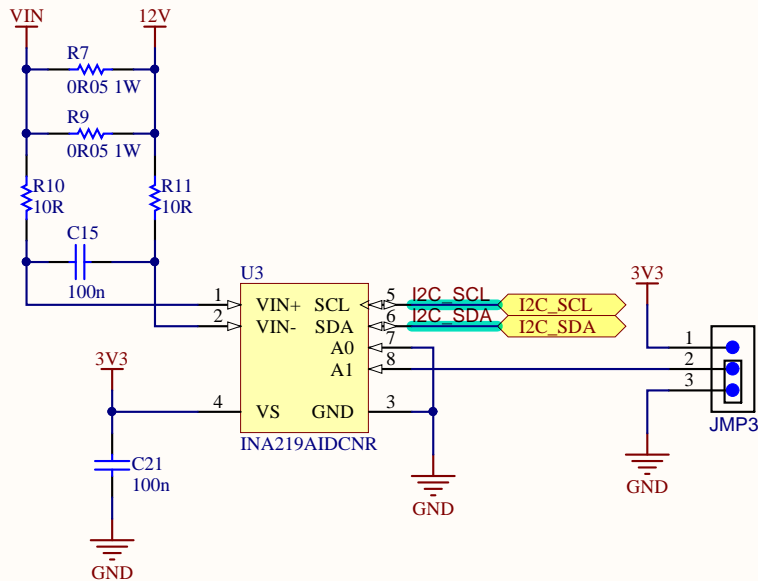
Title			Top Sheet	
Size	Number	Revision		1.0
B				
Date:	2/22/2019	Sheet	1	of 13
File:	C:\ESE Conestoga\Top sheet.SchDoc	Drawn By:	Matt Hengeveld	



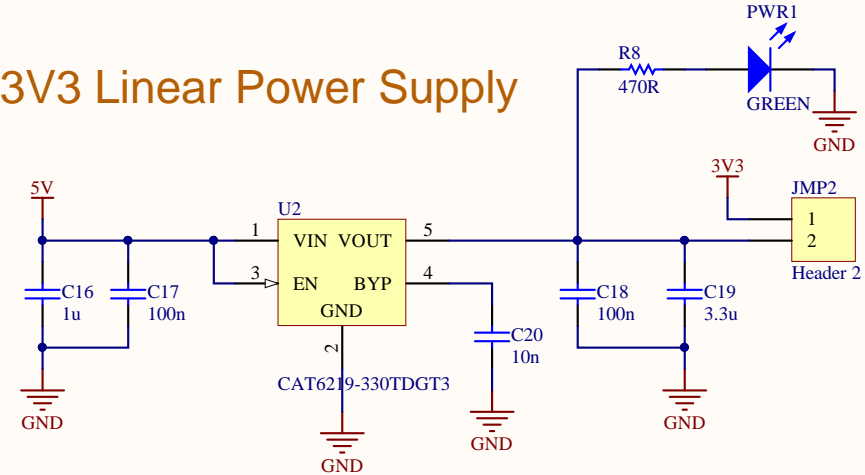
Title		
STM32F303RE Morpho Connectors		
Size	Number	Revision
A4		1.0
Date:	2/22/2019	Sheet 2 of 13
File:	C:\ESE Conestoga\...\microcontroller.SchDoc	
Drawn By:		Matthew Hengeveld



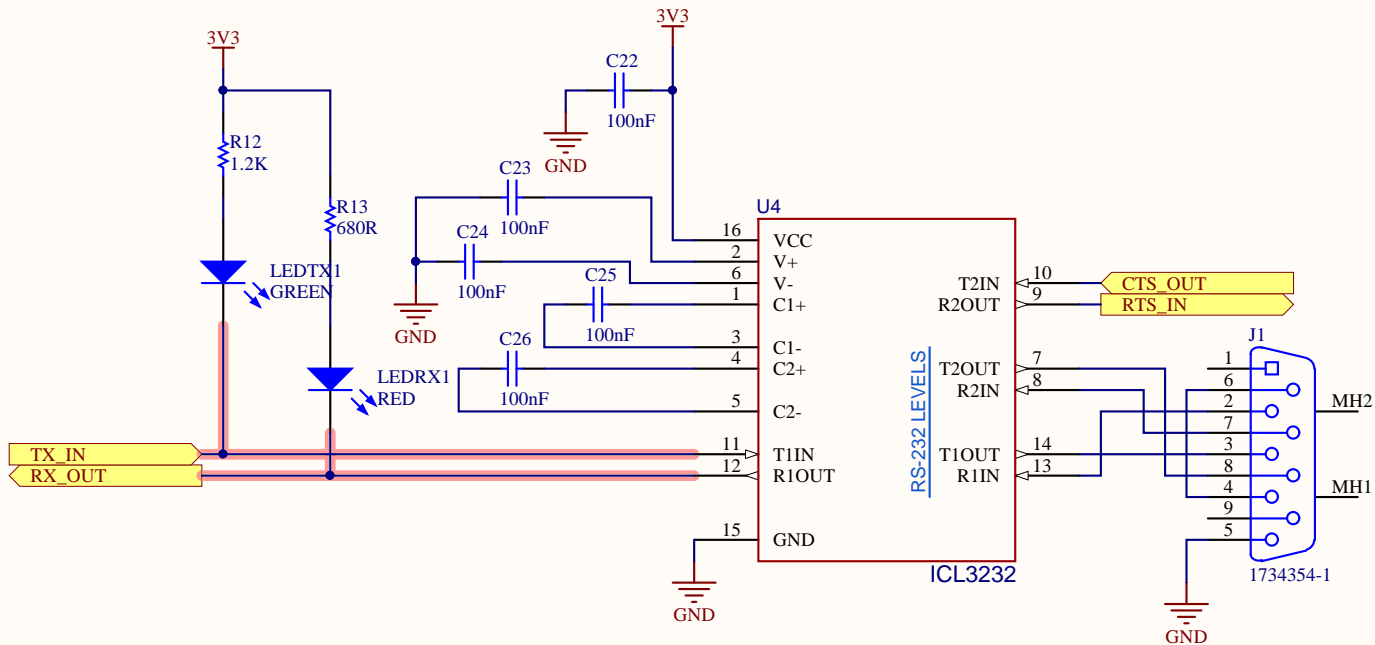
5V Switching Power Supply



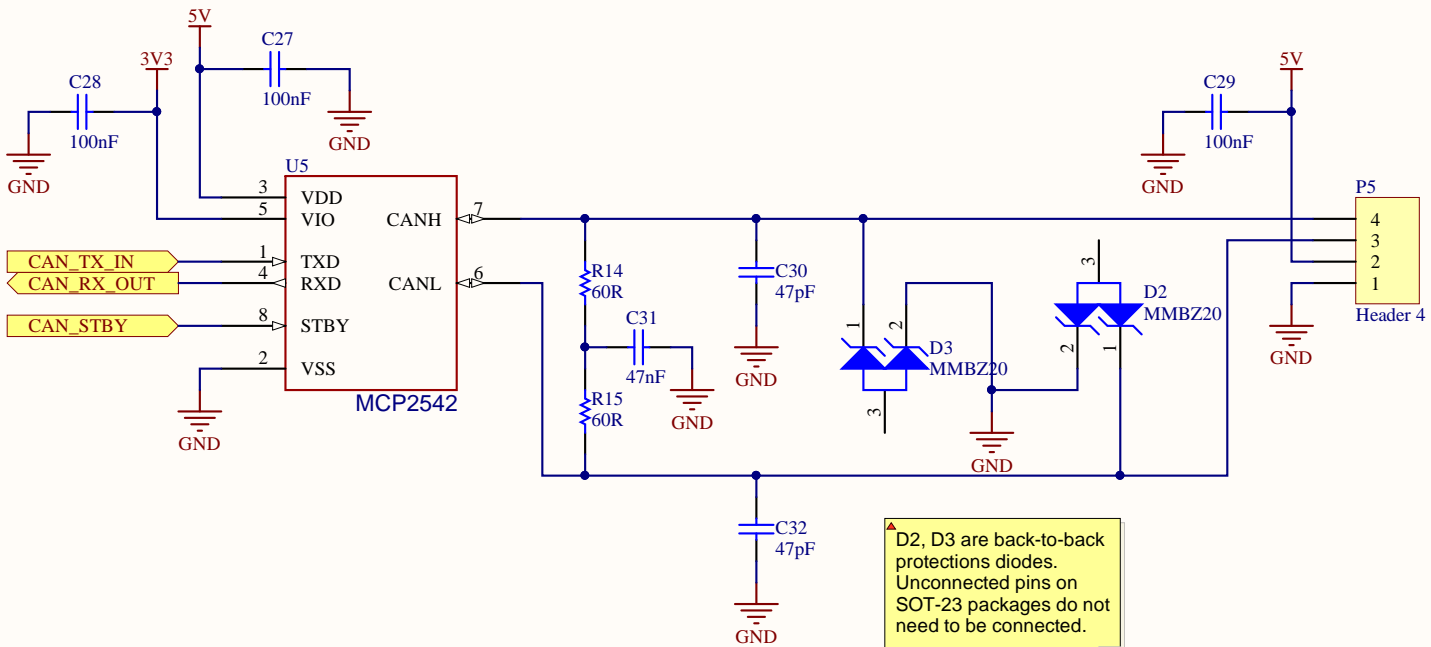
3V3 Linear Power Supply



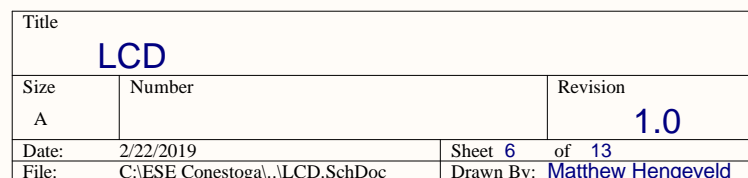
Title		
Power Supply		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 3 of 13
File:	C:\ESE Conestoga\power supply.SchDoc Drawn By: Matthew Hengeveld	

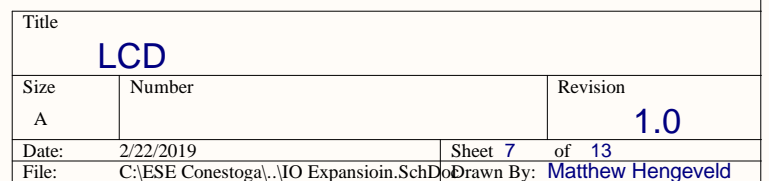


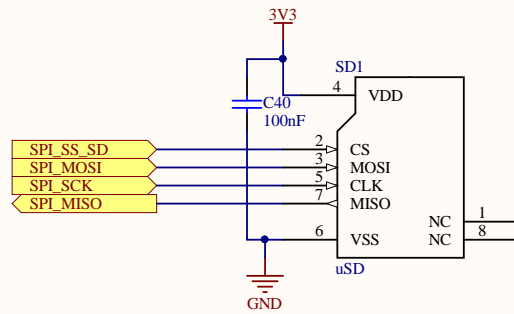
Title		
RS232		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 4 of 13
File:	C:\ESE Conestoga\rs232.SchDoc	Drawn By: Matthew Hengeveld



Title		
CANbus		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 5 of 13
File:	C:\ESE Conestoga\...\CANbus.SchDoc	Drawn By: Matthew Hengeveld

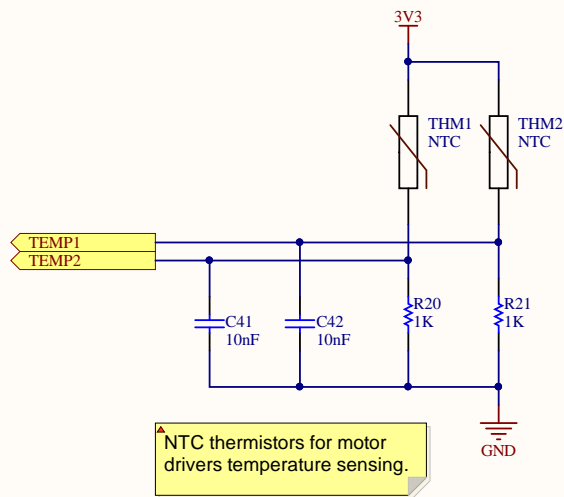




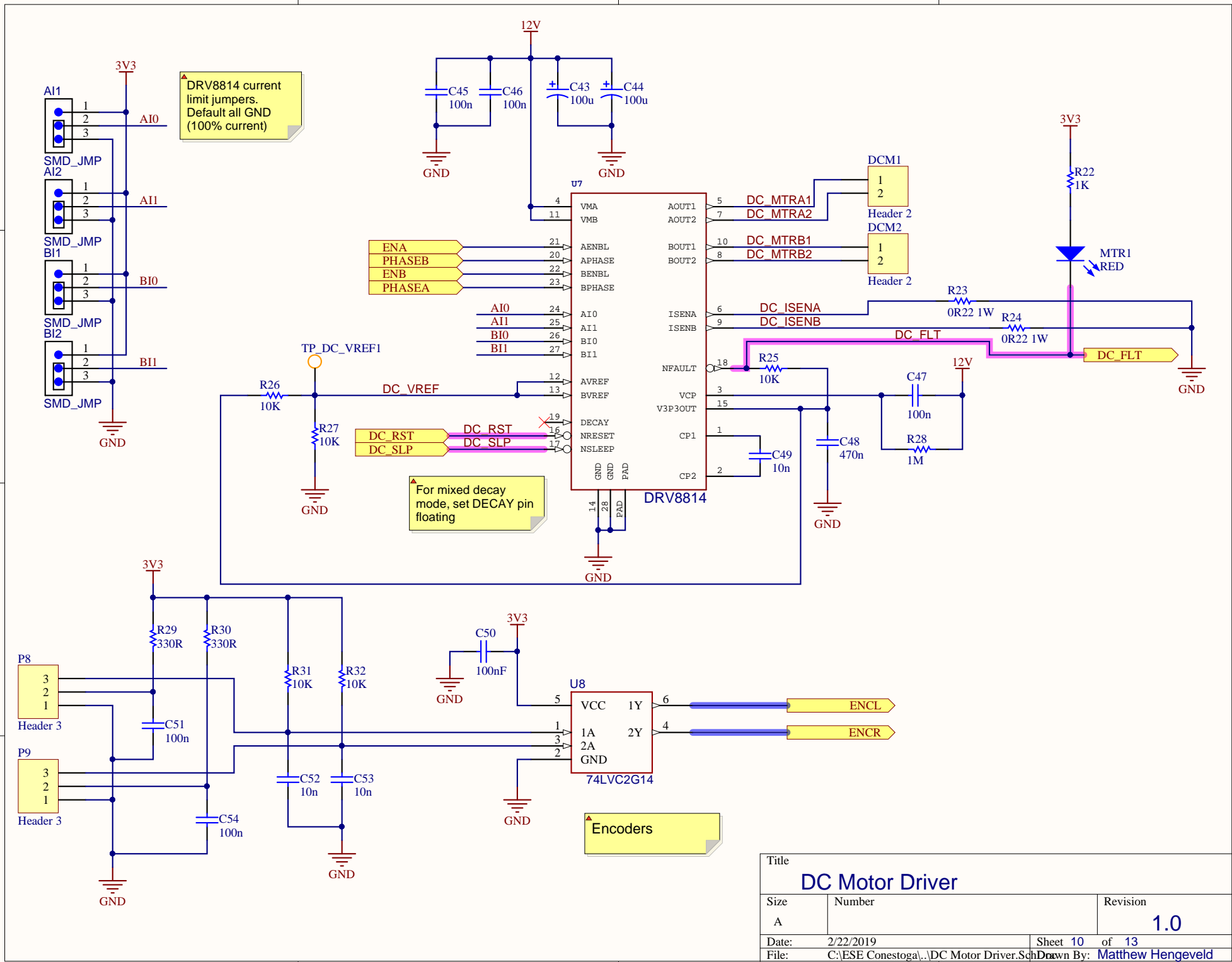


▲ Micro SD card with SPI interface.

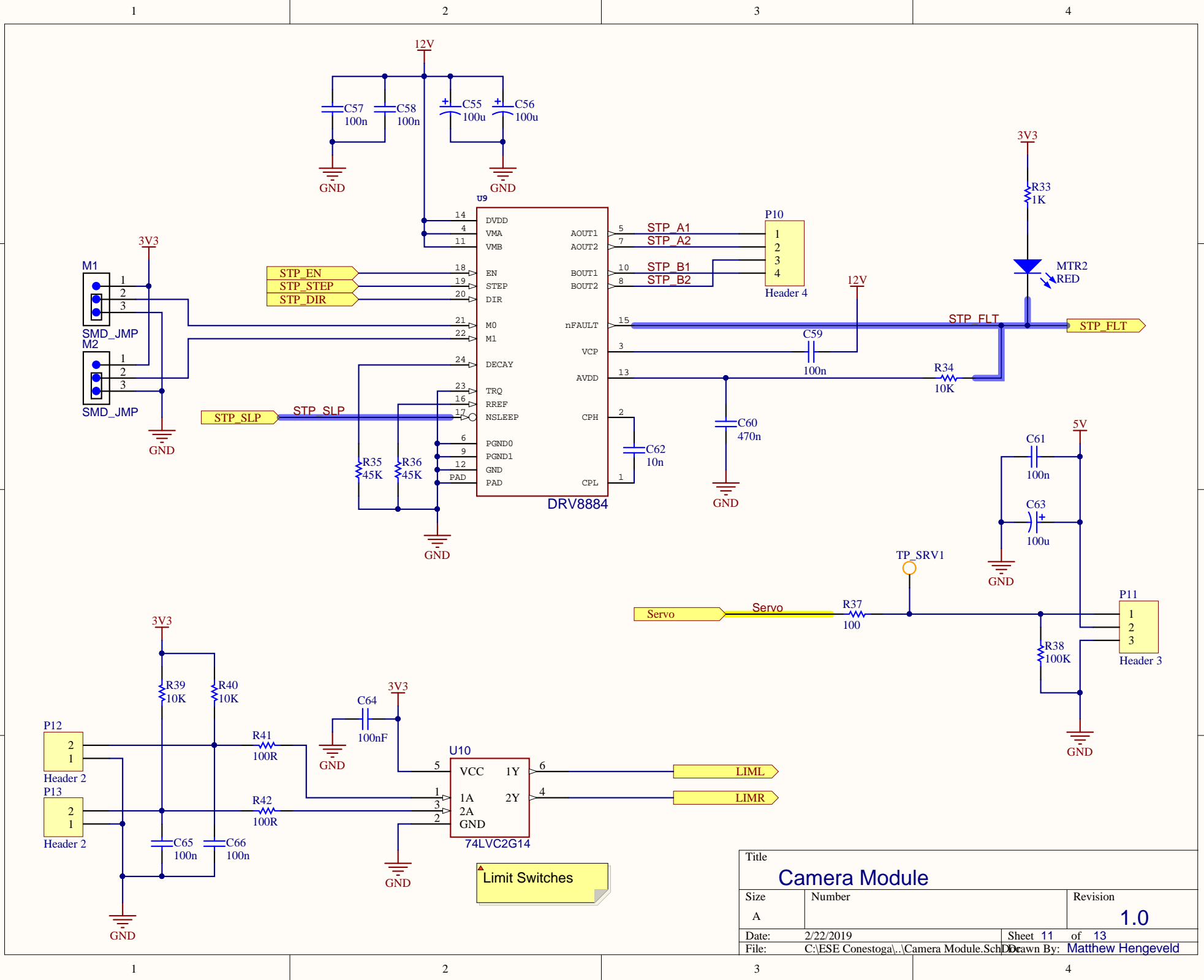
Title			SD Card	
Size	Number		Revision	
A4			1.0	
Date:	2/22/2019		Sheet 8 of 13	
File:	C:\ESE Conestoga\...\SD card.SchDoc		Drawn By: Matthew Hengeveld	



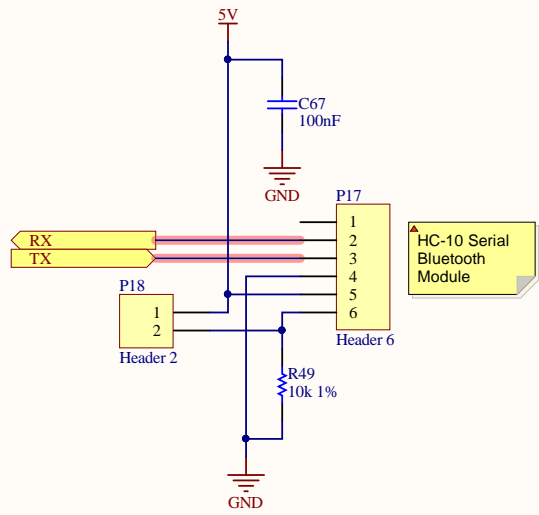
Title		
NTC Temperature Sensors		
Size	Number	Revision
A4		1.0
Date:	2/22/2019	Sheet 9 of 13
File:	C:\ESE Conestoga\Temperature.SchDoc	Drawn By: Matthew Hengeveld



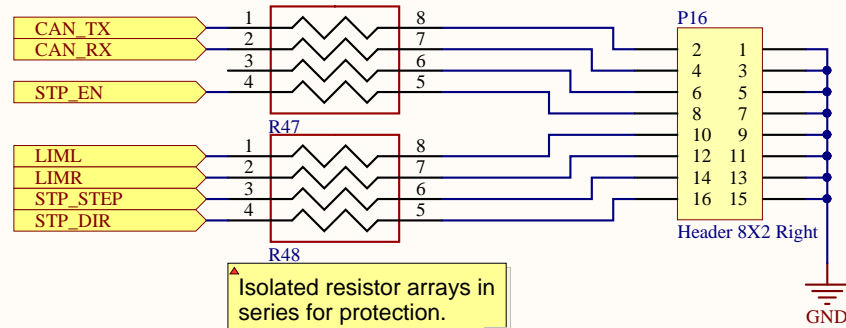
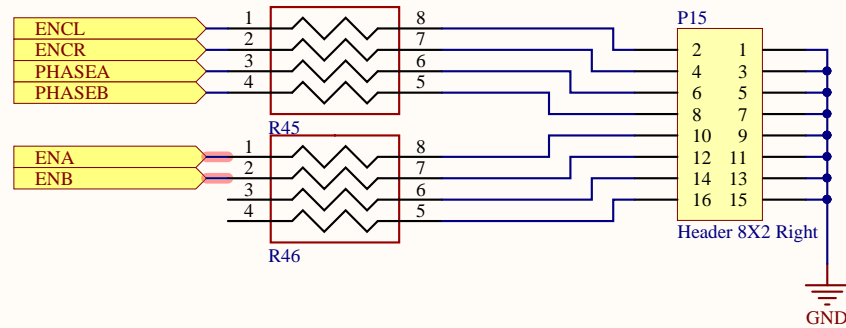
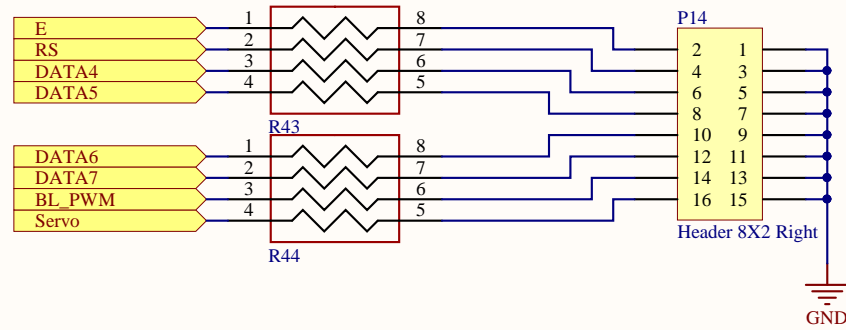
Title		
DC Motor Driver		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 10 of 13
File:	C:\ESE Conestoga\DC Motor Driver.Sch	Drawn By: Matthew Hengeveld



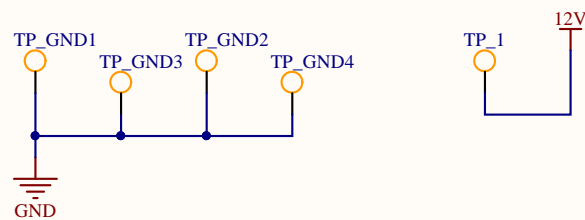
Title		
Camera Module		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 11 of 13
File:	C:\ESE Conestoga\Camera Module.SchDoc	Drawn By: Matthew Hengeveld



Title		
Bluetooth		
Size	Number	Revision
A4		1.0
Date:	2/22/2019	Sheet 12 of 13
File:	C:\ESE Conestoga\...\Bluetooth.SchDoc	Drawn By: Matthew Hengeveld



▲ Isolated resistor arrays in series for protection.



Title		
Test Points		
Size	Number	Revision
A		1.0
Date:	2/22/2019	Sheet 13 of 13
File:	C:\ESE Conestoga\...\TestPoints.SchDoc	Drawn By: Matthew Hengeveld