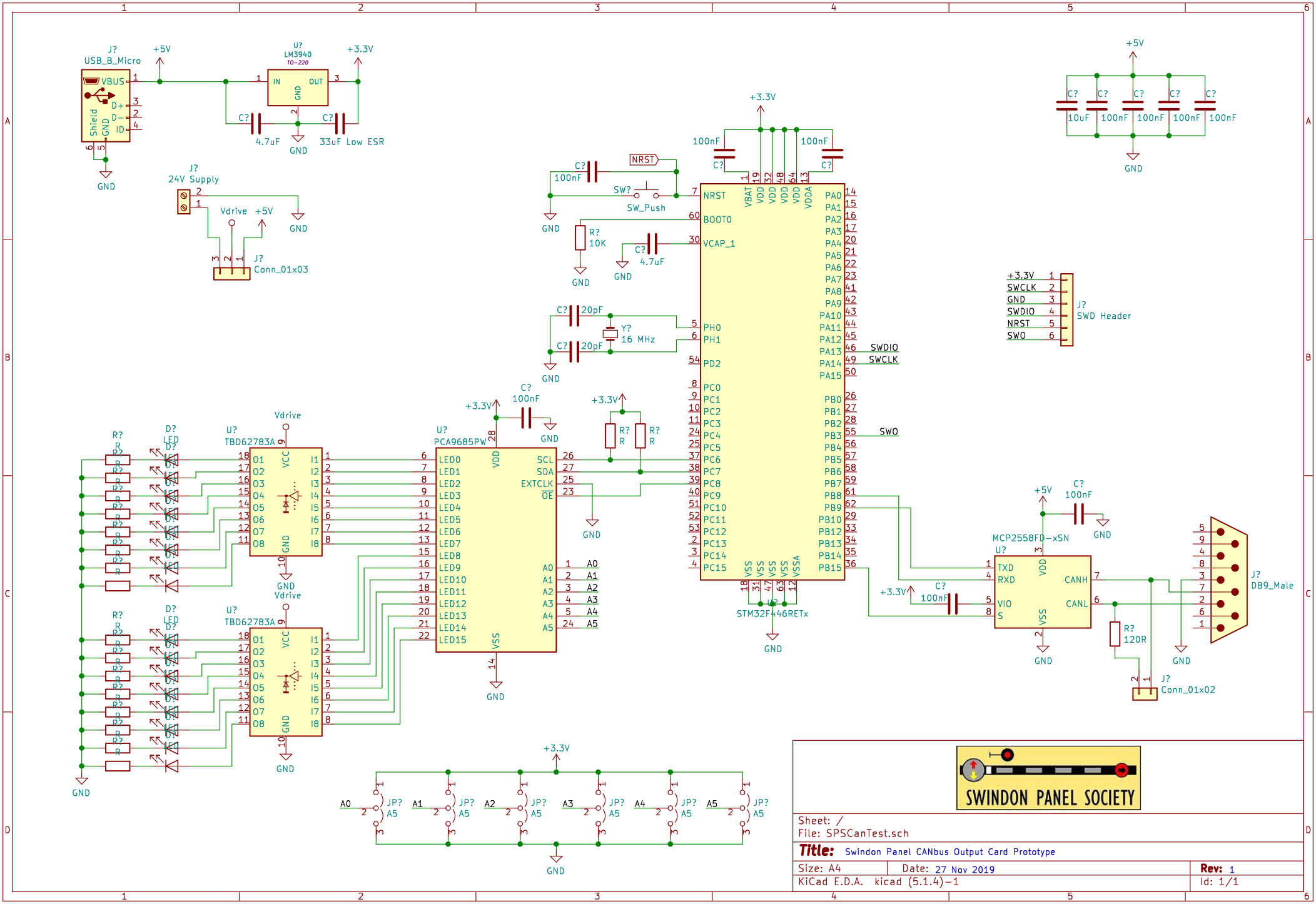
J?
USB_B_Micro
VBUS
D+
D-
ID
Shield
GND
+5V
U?
LM3940
TO-220
IN
OUT
GND
+3.3V
C?
4.7uF
33uF Low ESR
J?
24V Supply
Vdrive
J?
Conn_01x03
NRST
SW?
SW_Push
100nF
R?
10K
4.7uF
20pF
Y?
16 MHz
STM32F446RETx
NRST
BOOT0
VCAP_1
VBAT
VDD
VDDA
VSS
VSSA
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB12
PB13
PB14
PB15
PH0
PH1
PD2
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13
PC14
PC15
SWDIO
SWCLK
SWO
J?
SWD Header
+3.3V
SWCLK
GND
SWDIO
NRST
SWO
U?
TBD62783A
VCC
GND
O1
O2
O3
O4
O5
O6
O7
O8
I1
I2
I3
I4
I5
I6
I7
I8
R?
R
D?
LED
U?
PCA9685PW
VDD
VSS
SCL
SDA
EXTCLK
OE
LED0
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
A0
A1
A2
A3
A4
A5
JP?
A5
U?
MCP2558FD-xSN
TXD
RXD
VIO
S
VDD
VSS
CANH
CANL
R?
120R
J?
Conn_01x02
J?
DB9_Male
SWINDON PANEL SOCIETY
Sheet: /
File: SPSCanTest.sch
Title: Swindon Panel CANbus Output Card Prototype
Size: A4
Date: 27 Nov 2019
Rev: 1
KiCad E.D.A. kicad (5.1.4)-1
Id: 1/1