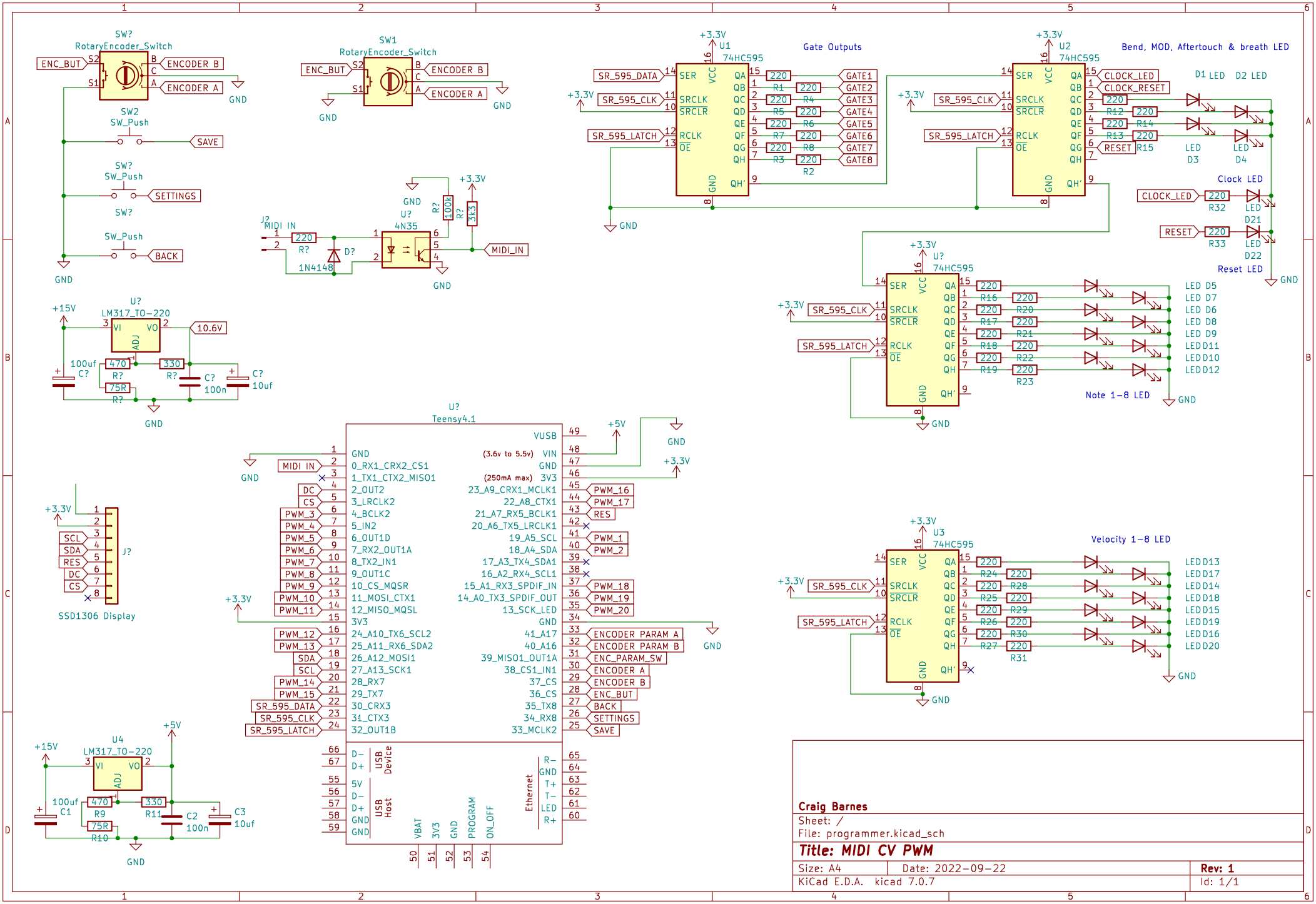
SW? RotaryEncoder_Switch
ENC_BUT
ENCODER B
ENCODER A
GND
SW1 RotaryEncoder_Switch
SW2 SW_Push
SAVE
SW? SW_Push
SETTINGS
SW? SW_Push
BACK
J? MIDI IN
R? 220
D? 1N4148
U? 4N35
R? 100k
R? 3k3
+3.3V
MIDI_IN
U? LM317_TO-220
+15V
10.6V
100uf C?
470 R?
330 R?
75R R?
C? 100n
C? 10uf
U? Teensy4.1
MIDI IN
DC
CS
PWM_3
PWM_4
PWM_5
PWM_6
PWM_7
PWM_8
PWM_9
PWM_10
PWM_11
PWM_12
PWM_13
SDA
SCL
PWM_14
PWM_15
SR_595_DATA
SR_595_CLK
SR_595_LATCH
+5V
PWM_16
PWM_17
RES
PWM_1
PWM_2
PWM_18
PWM_19
PWM_20
ENCODER PARAM A
ENCODER PARAM B
ENC_PARAM_SW
ENCODER A
ENCODER B
ENC_BUT
BACK
SETTINGS
SAVE
VUSB
(3.6v to 5.5v) VIN
(250mA max) 3V3
USB Device
USB Host
Ethernet
VBAT
3V3
PROGRAM
ON_OFF
J? SSD1306 Display
SCL
SDA
RES
DC
CS
U4 LM317_TO-220
100uf C1
470 R9
330 R11
75R R10
C2 100n
C3 10uf
U1 74HC595
Gate Outputs
GATE1
GATE2
GATE3
GATE4
GATE5
GATE6
GATE7
GATE8
U2 74HC595
Bend, MOD, Aftertouch & breath LED
CLOCK_LED
CLOCK_RESET
RESET
D1 LED
D2 LED
LED D3
LED D4
Clock LED
LED D21
Reset LED
LED D22
U? 74HC595
Note 1-8 LED
LED D5
LED D7
LED D6
LED D8
LED D9
LED D11
LED D10
LED D12
U3 74HC595
Velocity 1-8 LED
LED D13
LED D17
LED D14
LED D18
LED D15
LED D19
LED D16
LED D20
Craig Barnes
Sheet: /
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Size: A4
Date: 2022-09-22
Rev: 1
KiCad E.D.A. kicad 7.0.7
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