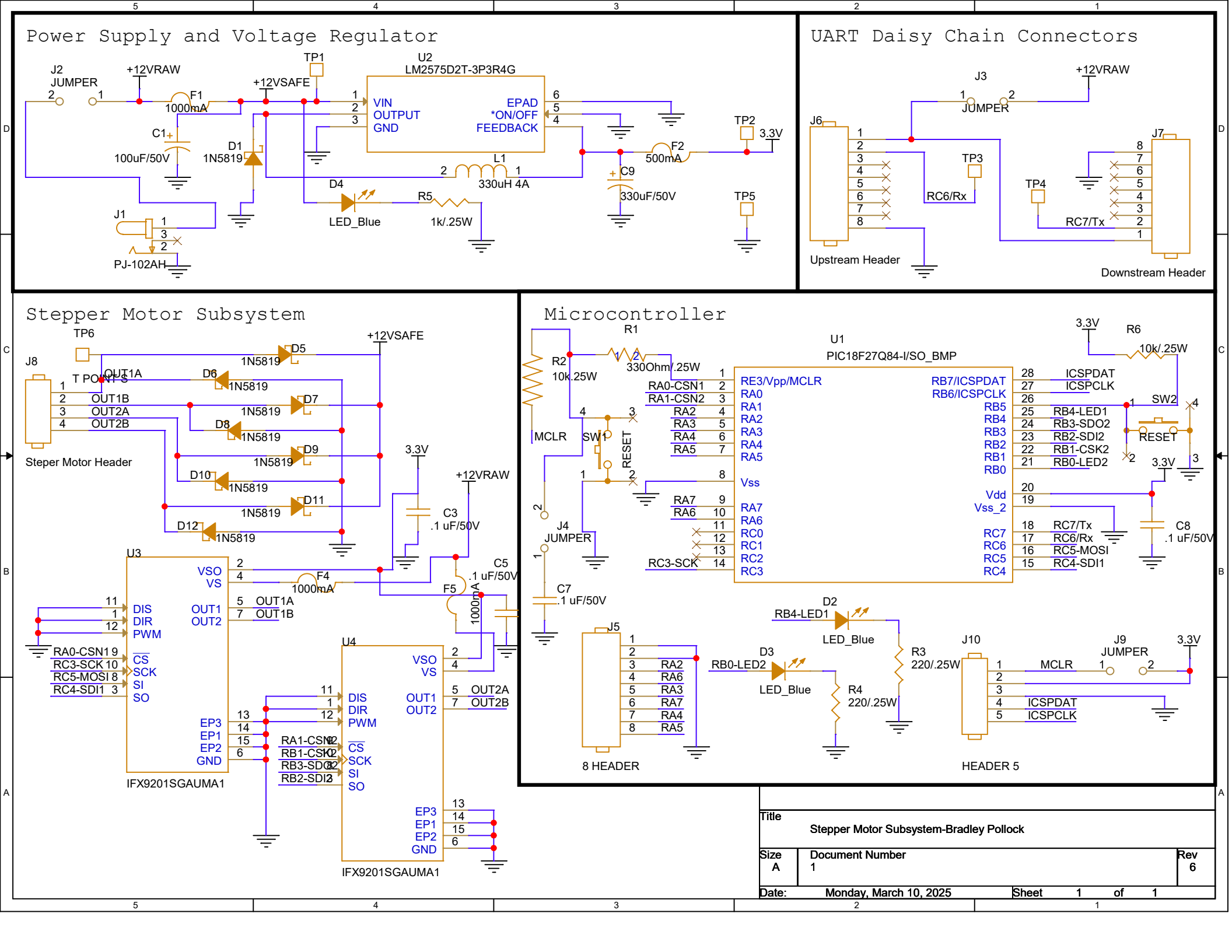
Power Supply and Voltage Regulator
J2
JUMPER
+12VRAW
F1
1000mA
+12VSAFE
TP1
U2
LM2575D2T-3P3R4G
VIN
OUTPUT
GND
EPAD
*ON/OFF
FEEDBACK
TP2
3.3V
C1
100uF/50V
D1
1N5819
L1
330uH 4A
F2
500mA
C9
330uF/50V
D4
LED_Blue
R5
1k/.25W
TP5
J1
PJ-102AH
UART Daisy Chain Connectors
J3
JUMPER
+12VRAW
J6
Upstream Header
TP3
RC6/Rx
TP4
RC7/Tx
J7
Downstream Header
Stepper Motor Subsystem
TP6
+12VSAFE
J8
Steper Motor Header
D5
D6
D7
D8
D9
D10
D11
D12
1N5819
3.3V
+12VRAW
C3
.1 uF/50V
C5
.1 uF/50V
F4
1000mA
F5
1000mA
U3
IFX9201SGAUMA1
U4
IFX9201SGAUMA1
VSO
VS
OUT1
OUT2
DIS
DIR
PWM
CS
SCK
SI
SO
EP3
EP1
EP2
GND
Microcontroller
R1
330Ohm/.25W
R2
10k.25W
MCLR
SW1
RESET
J4
JUMPER
C7
.1 uF/50V
U1
PIC18F27Q84-I/SO_BMP
RE3/Vpp/MCLR
RA0-CSN1
RA1-CSN2
RA0
RA1
RA2
RA3
RA4
RA5
Vss
RA7
RA6
RC0
RC1
RC2
RC3
RC3-SCK
RB7/ICSPDAT
RB6/ICSPCLK
RB5
RB4
RB3
RB2
RB1
RB0
Vdd
Vss_2
RC7
RC6
RC5
RC4
ICSPDAT
ICSPCLK
RB4-LED1
RB3-SDO2
RB2-SDI2
RB1-CSK2
RB0-LED2
RC7/Tx
RC6/Rx
RC5-MOSI
RC4-SDI1
R6
10k/.25W
SW2
RESET
C8
.1 uF/50V
J5
8 HEADER
D2
RB4-LED1
LED_Blue
D3
RB0-LED2
LED_Blue
R3
220/.25W
R4
220/.25W
J10
HEADER 5
J9
JUMPER
MCLR
ICSPDAT
ICSPCLK
Title
Stepper Motor Subsystem-Bradley Pollock
Size
A
Document Number
1
Rev
6
Date:
Monday, March 10, 2025
Sheet
1
of
1