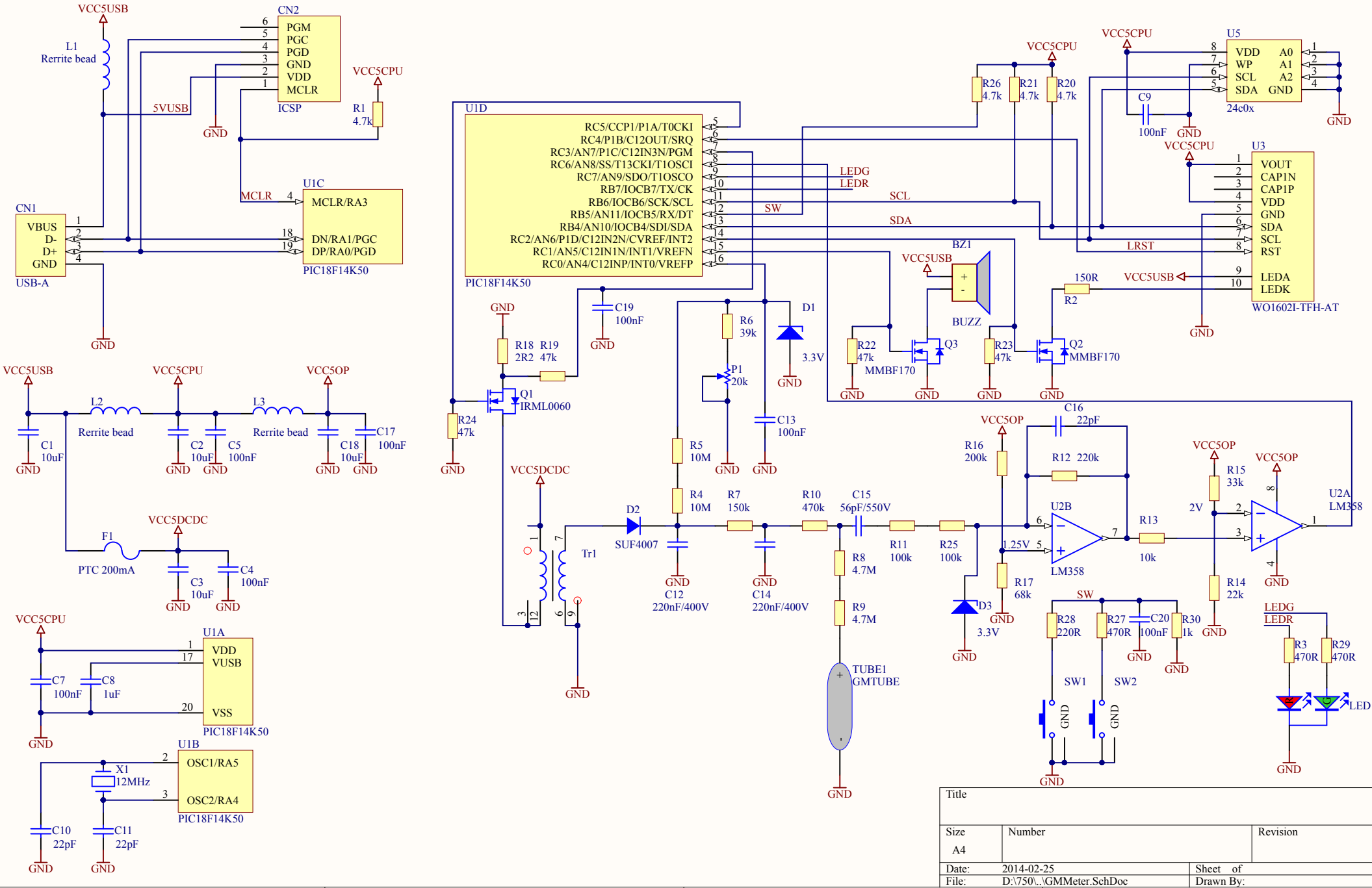
VCC5USB
L1
Rerrite bead
CN2
PGM
PGC
PGD
GND
VDD
MCLR
ICSP
5VUSB
VCC5CPU
R1
4.7k
CN1
VBUS
D-
D+
GND
USB-A
MCLR
U1C
MCLR/RA3
DN/RA1/PGC
DP/RA0/PGD
PIC18F14K50
U1D
RC5/CCP1/P1A/T0CKI
RC4/P1B/C12OUT/SRQ
RC3/AN7/P1C/C12IN3N/PGM
RC6/AN8/SS/T13CKI/T1OSCI
RC7/AN9/SDO/T1OSCO
RB7/IOCB7/TX/CK
RB6/IOCB6/SCK/SCL
RB5/AN11/IOCB5/RX/DT
RB4/AN10/IOCB4/SDI/SDA
RC2/AN6/P1D/C12IN2N/CVREF/INT2
RC1/AN5/C12IN1N/INT1/VREFN
RC0/AN4/C12INP/INT0/VREFP
PIC18F14K50
LEDG
LEDR
SW
SCL
SDA
LRST
R26
4.7k
R21
4.7k
R20
4.7k
U5
VDD
WP
SCL
SDA
A0
A1
A2
GND
24c0x
C9
100nF
U3
VOUT
CAP1N
CAP1P
VDD
GND
SDA
SCL
RST
LEDA
LEDK
WO1602I-TFH-AT
BZ1
BUZZ
150R
R2
R22
47k
MMBF170
Q3
R23
47k
Q2
MMBF170
C19
100nF
R18 R19
2R2 47k
R6
39k
P1
20k
D1
3.3V
Q1
IRML0060
R24
47k
C13
100nF
R5
10M
R4
10M
R7
150k
R10
470k
C15
56pF/550V
R11
100k
R25
100k
R8
4.7M
R9
4.7M
TUBE1
GMTUBE
D2
SUF4007
Tr1
C12
220nF/400V
C14
220nF/400V
VCC5DCDC
C16
22pF
R12 220k
R16
200k
R17
68k
D3
3.3V
1.25V
U2B
LM358
R13
10k
U2A
LM358
R15
33k
2V
R14
22k
R28
220R
R27
470R
C20
100nF
R30
1k
SW1
SW2
LEDG
LEDR
R3
470R
R29
470R
LED1
VCC5USB
L2
Rerrite bead
L3
Rerrite bead
VCC5CPU
VCC5OP
C1
10uF
C2
10uF
C5
100nF
C18
10uF
C17
100nF
F1
PTC 200mA
C3
10uF
C4
100nF
VCC5CPU
U1A
VDD
VUSB
VSS
PIC18F14K50
C7
100nF
C8
1uF
U1B
OSC1/RA5
OSC2/RA4
PIC18F14K50
X1
12MHz
C10
22pF
C11
22pF
Title
Size
A4
Number
Revision
Date:
2014-02-25
Sheet of
File:
D:\750\..\GMMeter.SchDoc
Drawn By: