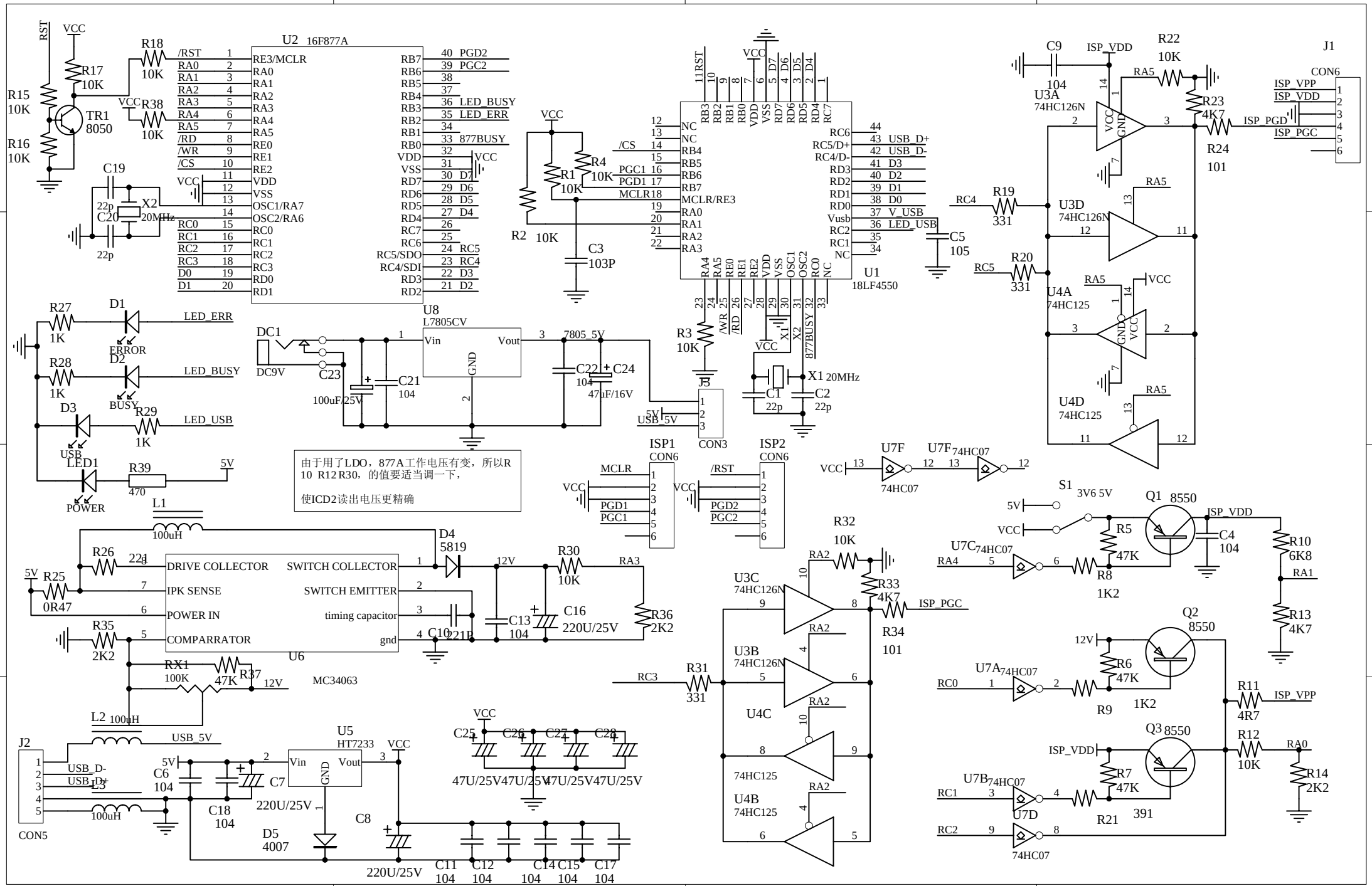
U2 16F877A
U1 18LF4550
U3A 74HC126N
U3B 74HC126N
U3C 74HC126N
U3D 74HC126N
U4A 74HC125
U4B 74HC125
U4C 74HC125
U4D 74HC125
U5 HT7233
U6 MC34063
U7A 74HC07
U7B 74HC07
U7C 74HC07
U7D 74HC07
U7F 74HC07
U8 L7805CV
J1 CON6
J2 CON5
J3 CON3
ISP1 CON6
ISP2 CON6
Q1 8550
Q2 8550
Q3 8550
S1 3V6 5V
X1 20MHz
X2 20MHz
TR1 8050
D1 LED_ERR
D2 LED_BUSY
D3 LED_USB
D4 5819
D5 4007
LED1 POWER
DC1 DC9V
L1 100uH
L2 100uH
L3 100uH
RST
VCC
5V
12V
USB_5V
7805_5V
ISP_VDD
ISP_VPP
ISP_PGD
ISP_PGC
LED_ERR
LED_BUSY
LED_USB
USB_D-
USB_D+
877BUSY
MCLR
PGD1
PGC1
PGD2
PGC2
R1 10K
R2 10K
R3 10K
R4 10K
R5 47K
R6 47K
R7 47K
R8 1K2
R9 1K2
R10 6K8
R11 4R7
R12 10K
R13 4K7
R14 2K2
R15 10K
R16 10K
R17 10K
R18 10K
R19 331
R20 331
R21 391
R22 10K
R23 4K7
R24 101
R25 0R47
R26 22R
R27 1K
R28 1K
R29 1K
R30 10K
R31 331
R32 10K
R33 4K7
R34 101
R35 2K2
R36 2K2
R37 47K
RX1 100K
C1 22p
C2 22p
C3 103P
C4 104
C5 105
C6 104
C7 220U/25V
C8 220U/25V
C9 104
C10 221P
C11 104
C12 104
C13 104
C14 104
C15 104
C16 220U/25V
C17 104
C18 104
C19 22p
C20 22p
C21 104
C22 104
C23 100uF/25V
C24 47uF/16V
C25 47U/25V
C26 47U/25V
C27 47U/25V
C28 47U/25V
DRIVE COLLECTOR
SWITCH COLLECTOR
IPK SENSE
SWITCH EMITTER
POWER IN
timing capacitor
COMPARRATOR
gnd
由于用了LDO，877A工作电压有变，所以R10 R12 R30，的值要适当调一下，
使ICD2读出电压更精确