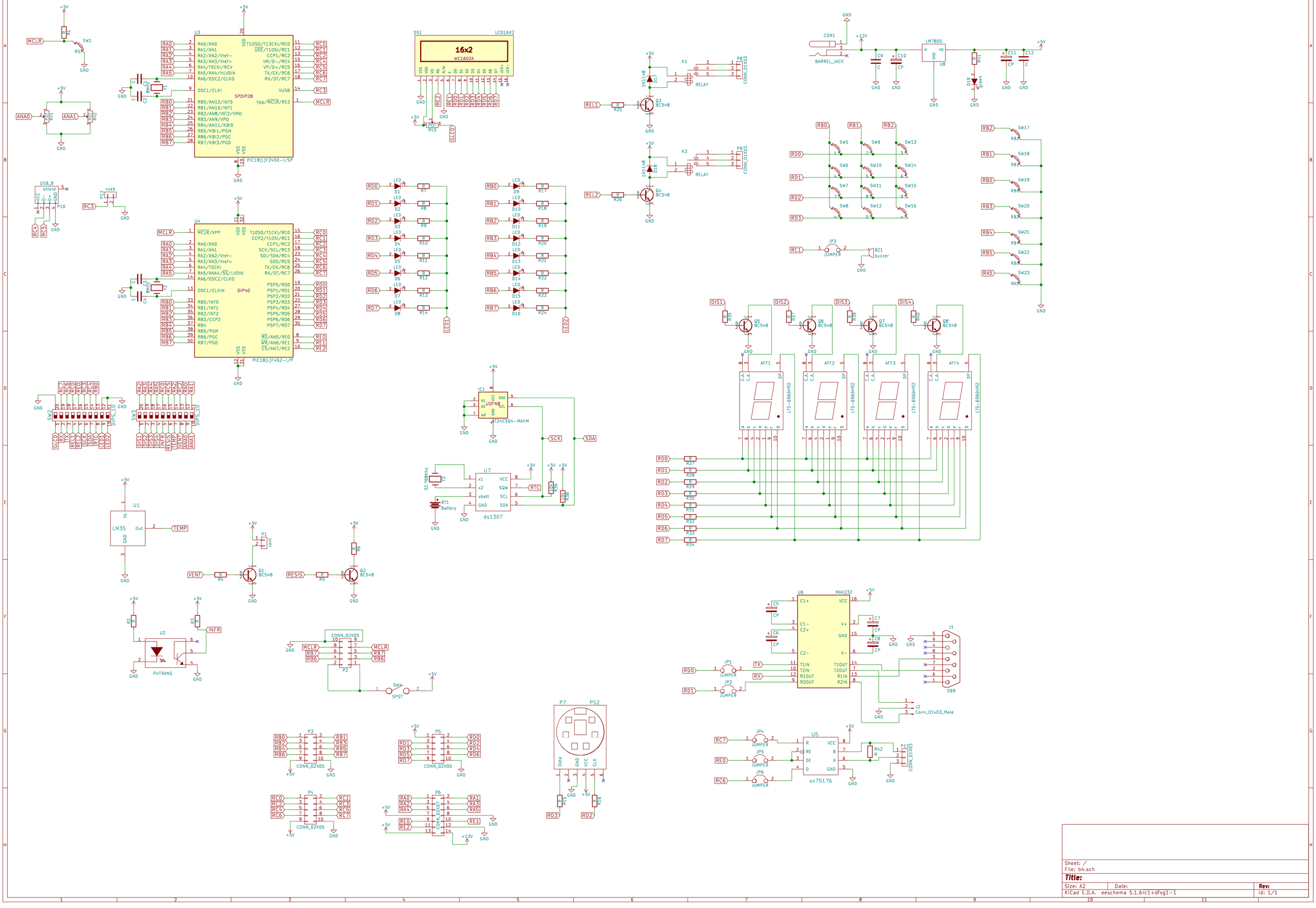
MCLR
SW1
RST
R1
+5V
GND
ANA0
ANA1
RV1
RV2
U3
SPDIP28
PIC18(L)F2450-I/SP
RA0/AN0
RA1/AN1
RA2/AN2/Vref-
RA3/AN3/Vref+
RA4/T0CKI/RCV
RA5/AN4/HLVDIN
RA6/OSC2/CLKO
OSC1/CLKI
RB0/AN12/INT0
RB1/AN10/INT1
RB2/AN8/INT2/VMO
RB3/AN9/VPO
RB4/AN11/KBI0
RB5/KBI1/PGM
RB6/KBI2/PGC
RB7/KBI3/PGD
T1OSO/T13CKI/RC0
UOE/T1OSI/RC1
CCP1/RC2
VM/D-/RC4
VP/D+/RC5
TX/CK/RC6
RX/DT/RC7
VUSB
Vpp/MCLR/RE3
VDD
VSS
X1
8MHz
C1
C2
RC0
RC1
RC2
RC4
RC5
RC6
RC7
RE3
DS1
LCD16X2
16x2
WC1602A
VSS
VDD
VO
RS
RW
E
D0
D1
D2
D3
D4
D5
D6
D7
LED+
LED-
RE2
RE1
RD0
RD1
RD2
RD3
RD4
RD5
RD6
RD7
PDT
RV3
GLCD
K1
K2
RELAY
CONN_01X03
REL1
REL2
R25
R26
Q3
Q4
BC548
1N4148
D17
D18
P8
P9
CON1
BARREL_JACK
+12V
C9
C10
CP
LM7805
VI
VO
U8
R41
D19
LED
C11
C12
RB0
RB1
RB2
RB3
RB4
RB5
RB6
RB7
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
SW21
SW22
SW23
RC1
JP3
JUMPER
BZ1
buzzer
USB_B
shield
P10
P12
vusb
RC3
RC4
RC5
U4
PIC18(L)F452-I/P
DIP40
MCLR/VPP
RA0/AN0
RA1/AN1
RA2/AN2/Vref-
RA3/AN3/Vref+
RA4/T0CKI
RA5/AN4/SS/LVDIN
RA6/OSC2/CLKO
OSC1/CLKIN
RB0/INT0
RB1/INT1
RB2/INT2
RB3/CCP2
RB4
RB5/PGM
RB6/PGC
RB7/PGD
T1OSO/T1CKI/RC0
CCP2/T1OSI/RC1
CCP1/RC2
SCK/SCL/RC3
SDI/SDA/RC4
SDO/RC5
TX/CK/RC6
RX/DT/RC7
PSP0/RD0
PSP1/RD1
PSP2/RD2
PSP3/RD3
PSP4/RD4
PSP5/RD5
PSP6/RD6
PSP7/RD7
RD/AN5/RE0
WR/AN6/RE1
CS/AN7/RE2
X2
4MHz
C3
C4
LED1
LED2
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
R7
R8
R9
R10
R11
R12
R13
R14
R17
R18
R19
R20
R21
R22
R23
R24
DIS1
DIS2
DIS3
DIS4
Q5
Q6
Q7
Q8
R35
R37
R39
R40
AFF1
AFF2
AFF3
AFF4
LTS-6960HR2
C.A.
DP
R27
R28
R29
R30
R31
R32
R33
R34
SW2
SW3
DIPS_10
GLCD
TX
RX
REL1
REL2
SCK
SDA
RTC
LED1
LED2
DIS1
DIS2
DIS3
DIS4
INFR
RESIS
TEMP
VENT
ANA0
ANA1
IC1
UDFN8
AT24C04-MAHM
SCK
SDA
U7
ds1307
X3
32.768Khz
BT1
Battery
VCC
SQW
SCL
SDA
RTC
R36
R38
U1
LM35
Vs
Out
TEMP
P1
vent
VENT
R4
Q1
R5
Q2
R6
RESIS
U2
PHTRANS
R2
R3
INFR
P2
CONN_02X05
SW4
SPST
P3
P4
P5
P6
P7
PS2
Data
CLK
R15
R16
U6
MAX232
C1+
C1-
C2+
C2-
V+
V-
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
C5
C6
C7
C8
TX
RX
JP1
JP2
J1
DB9
J2
Conn_01x03_Male
U5
sn75176
R
RE
DE
D
B
A
JP4
JP5
JP6
R42
P11
RC7
RE0
RC6
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Date:
Rev:
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