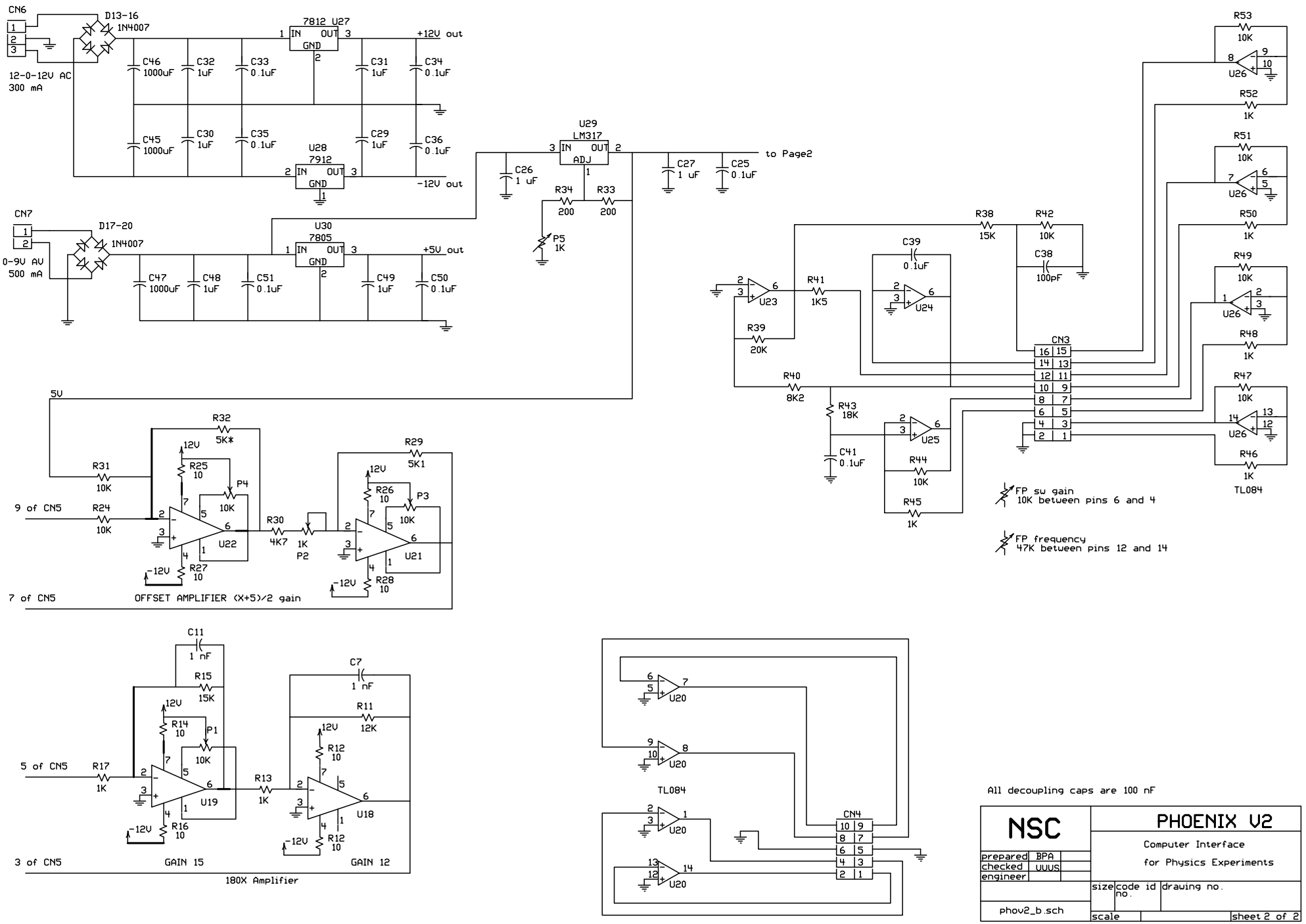
CN6
D13-16
1N4007
12-0-12V AC
300 mA
7812 U27
+12V out
C46 1000uF
C32 1uF
C33 0.1uF
C31 1uF
C34 0.1uF
C45 1000uF
C30 1uF
C35 0.1uF
C29 1uF
C36 0.1uF
U28
7912
-12V out
U29
LM317
ADJ
to Page2
C26 1 uF
C27 1 uF
C25 0.1uF
R34 200
R33 200
P5 1K
CN7
D17-20
1N4007
0-9V AV
500 mA
U30
7805
+5V out
C47 1000uF
C48 1uF
C51 0.1uF
C49 1uF
C50 0.1uF
5V
R32 5K*
R31 10K
R25 10
P4 10K
9 of CN5
R24 10K
U22
R30 4K7
R27 10
-12V
7 of CN5
OFFSET AMPLIFIER (X+5)/2 gain
R29 5K1
R26 10
P3 10K
U21
R28 10
P2 1K
R38 15K
R42 10K
C39 0.1uF
C38 100pF
U23
R41 1K5
U24
R39 20K
R40 8K2
R43 18K
C41 0.1uF
U25
R44 10K
R45 1K
CN3
R53 10K
U26
R52 1K
R51 10K
R50 1K
R49 10K
R48 1K
R47 10K
R46 1K
TL084
FP su gain
10K between pins 6 and 4
FP frequency
47K between pins 12 and 14
C11 1 nF
R15 15K
R14 10
P1 10K
5 of CN5
R17 1K
U19
R16 10
C7 1 nF
R11 12K
R12 10
R13 1K
U18
3 of CN5
GAIN 15
GAIN 12
180X Amplifier
U20
TL084
CN4
All decoupling caps are 100 nF
NSC
PHOENIX V2
Computer Interface
for Physics Experiments
prepared BPA
checked UUUS
engineer
size
code id no.
drawing no.
phov2_b.sch
scale
sheet 2 of 2