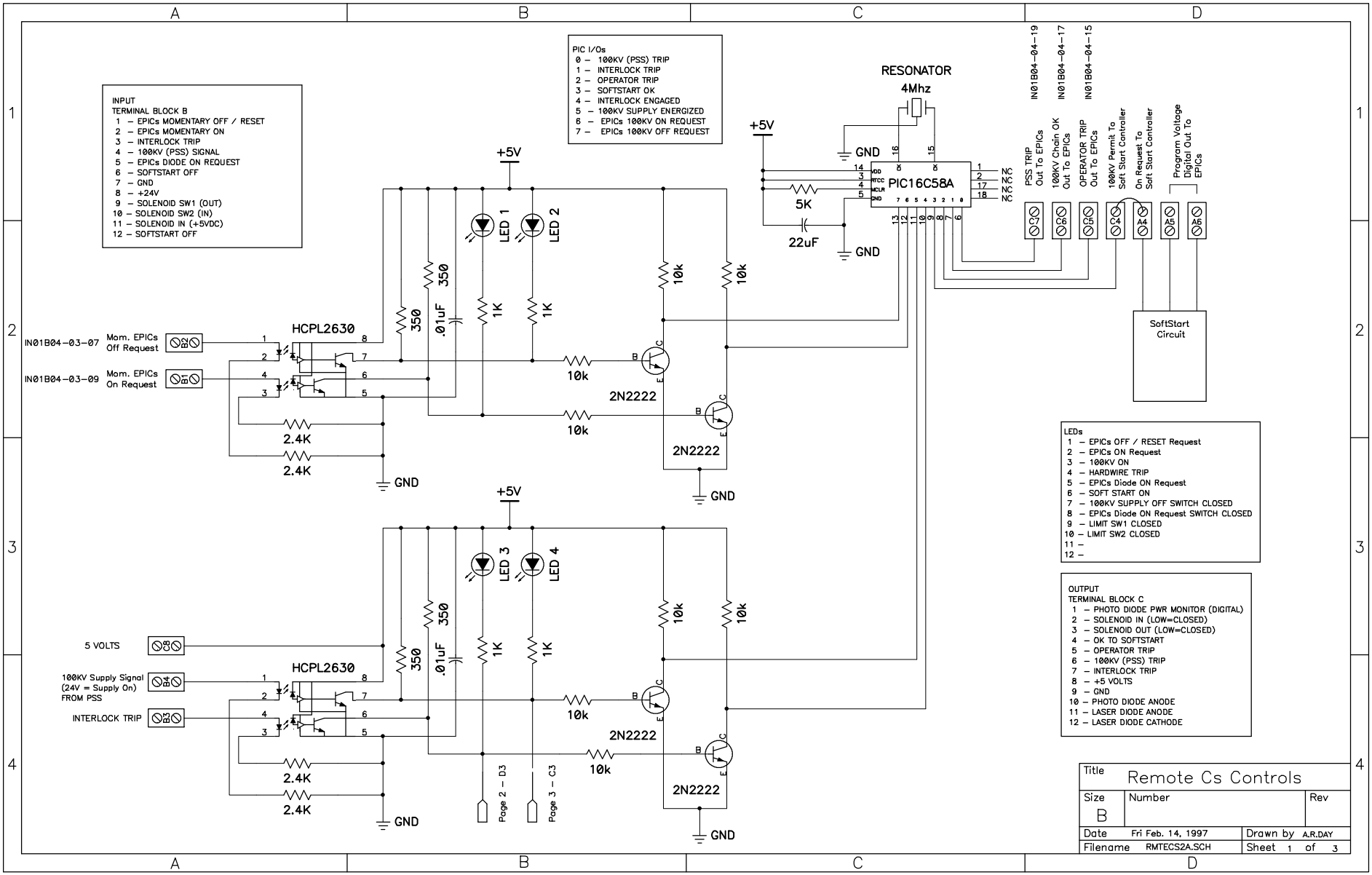
INPUT
TERMINAL BLOCK B
1 – EPICs MOMENTARY OFF / RESET
2 – EPICs MOMENTARY ON
3 – INTERLOCK TRIP
4 – 100KV (PSS) SIGNAL
5 – EPICs DIODE ON REQUEST
6 – SOFTSTART OFF
7 – GND
8 – +24V
9 – SOLENOID SW1 (OUT)
10 – SOLENOID SW2 (IN)
11 – SOLENOID IN (+5VDC)
12 – SOFTSTART OFF
PIC I/Os
0 – 100KV (PSS) TRIP
1 – INTERLOCK TRIP
2 – OPERATOR TRIP
3 – SOFTSTART OK
4 – INTERLOCK ENGAGED
5 – 100KV SUPPLY ENERGIZED
6 – EPICs 100KV ON REQUEST
7 – EPICs 100KV OFF REQUEST
RESONATOR
4Mhz
PIC16C58A
+5V
GND
5K
22uF
IN01B04-04-19
IN01B04-04-17
IN01B04-04-15
PSS TRIP Out To EPICs
100KV Chain OK Out To EPICs
OPERATOR TRIP Out To EPICs
100KV Permit To Soft Start Controller
On Request To Soft Start Controller
Program Voltage Digital Out To EPICs
SoftStart Circuit
IN01B04-03-07
Mom. EPICs Off Request
IN01B04-03-09
Mom. EPICs On Request
HCPL2630
LED 1
LED 2
LED 3
LED 4
350
.01uF
1K
10k
2N2222
2.4K
5 VOLTS
100KV Supply Signal (24V = Supply On) FROM PSS
INTERLOCK TRIP
Page 2 – D3
Page 3 – C3
LEDs
1 – EPICs OFF / RESET Request
2 – EPICs ON Request
3 – 100KV ON
4 – HARDWIRE TRIP
5 – EPICs Diode ON Request
6 – SOFT START ON
7 – 100KV SUPPLY OFF SWITCH CLOSED
8 – EPICs Diode ON Request SWITCH CLOSED
9 – LIMIT SW1 CLOSED
10 – LIMIT SW2 CLOSED
11 –
12 –
OUTPUT
TERMINAL BLOCK C
1 – PHOTO DIODE PWR MONITOR (DIGITAL)
2 – SOLENOID IN (LOW=CLOSED)
3 – SOLENOID OUT (LOW=CLOSED)
4 – OK TO SOFTSTART
5 – OPERATOR TRIP
6 – 100KV (PSS) TRIP
7 – INTERLOCK TRIP
8 – +5 VOLTS
9 – GND
10 – PHOTO DIODE ANODE
11 – LASER DIODE ANODE
12 – LASER DIODE CATHODE
Title
Remote Cs Controls
Size
B
Number
Rev
Date
Fri Feb. 14, 1997
Drawn by
A.R.DAY
Filename
RMTECS2A.SCH
Sheet
1
of
3