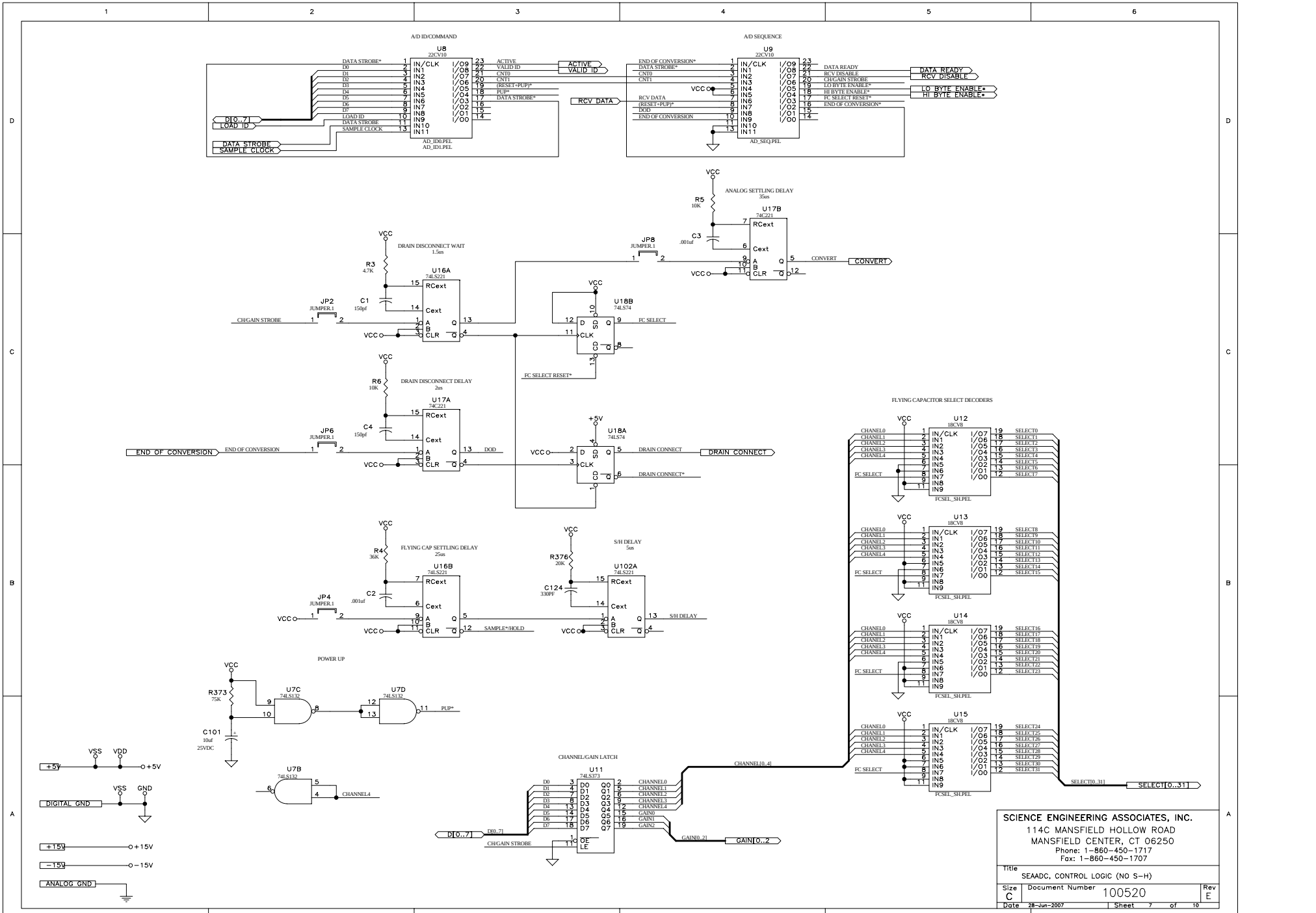
A/D ID/COMMAND
U8
22CV10
DATA STROBE*
D0
D1
D2
D3
D4
D5
D6
D7
LOAD ID
DATA STROBE
SAMPLE CLOCK
ACTIVE
VALID ID
CNT0
CNT1
(RESET+PUP)*
PUP*
DATA STROBE*
AD_ID0.PEL
AD_ID1.PEL
D[0..7]
LOAD ID
DATA STROBE
SAMPLE CLOCK
ACTIVE
VALID ID
RCV DATA
A/D SEQUENCE
U9
22CV10
END OF CONVERSION*
DATA STROBE*
CNT0
CNT1
RCV DATA
(RESET+PUP)*
DOD
END OF CONVERSION
DATA READY
RCV DISABLE
CH/GAIN STROBE
LO BYTE ENABLE*
HI BYTE ENABLE*
FC SELECT RESET*
END OF CONVERSION*
AD_SEQ.PEL
DATA READY
RCV DISABLE
LO BYTE ENABLE*
HI BYTE ENABLE*
VCC
ANALOG SETTLING DELAY
35us
R5
10K
U17B
74C221
RCext
Cext
A
B
CLR
Q
C3
.001uf
JP8
JUMPER.1
CONVERT
DRAIN DISCONNECT WAIT
1.5us
R3
4.7K
U16A
74LS221
JP2
JUMPER.1
C1
150pf
CH/GAIN STROBE
U18B
74LS74
FC SELECT
FC SELECT RESET*
DRAIN DISCONNECT DELAY
2us
R6
10K
U17A
74C221
C4
150pf
JP6
JUMPER.1
END OF CONVERSION
DOD
+5V
U18A
74LS74
DRAIN CONNECT
DRAIN CONNECT*
FLYING CAP SETTLING DELAY
25us
R4
36K
U16B
74LS221
C2
.001uf
JP4
JUMPER.1
SAMPLE*/HOLD
S/H DELAY
5us
R376
20K
U102A
74LS221
C124
330PF
S/H DELAY
POWER UP
R373
75K
U7C
74LS132
U7D
74LS132
PUP*
C101
10uf
25VDC
U7B
74LS132
CHANNEL4
VSS
VDD
+5V
DIGITAL GND
GND
+15V
-15V
ANALOG GND
CHANNEL/GAIN LATCH
U11
74LS373
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
OE
LE
CHANNEL0
CHANNEL1
CHANNEL2
CHANNEL3
CHANNEL4
GAIN0
GAIN1
GAIN2
D[0..7]
CH/GAIN STROBE
CHANNEL[0..4]
GAIN[0..2]
GAIN[0..2]
FLYING CAPACITOR SELECT DECODERS
U12
U13
U14
U15
18CV8
CHANEL0
CHANEL1
CHANEL2
CHANEL3
CHANEL4
FC SELECT
IN/CLK
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
IN9
I/O7
I/O6
I/O5
I/O4
I/O3
I/O2
I/O1
I/O0
SELECT0
SELECT1
SELECT2
SELECT3
SELECT4
SELECT5
SELECT6
SELECT7
SELECT8
SELECT9
SELECT10
SELECT11
SELECT12
SELECT13
SELECT14
SELECT15
SELECT16
SELECT17
SELECT18
SELECT19
SELECT20
SELECT21
SELECT22
SELECT23
SELECT24
SELECT25
SELECT26
SELECT27
SELECT28
SELECT29
SELECT30
SELECT31
FCSEL_SH.PEL
SELECT[0..31]
SELECT[0..31]
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