REVISION HISTORY		
ECO	DATE	DISCRIPTION
0096	2-22-83	SHEETS: 5, 15, 17, 25 AFFECTED
0103	3-10-83	CORRECT SCHEMATICS
0148	6-6-83	SHEETS 2 & 8
0149	6-16-83	SHEETS 4 & 9
0217	1-4-84	SHEET 17 & 20
0258	3-13-84	SHEET 8, 15, 17, 19, 20, 25
0283	3-30-84	SHEET 4
0336	6-29-84	SHEETS 4, 5, 8, 14, 16, 17, 22, 25,
0376	9-6-84	SHEET 17 & 18
0418	12-7-84	SHEETS 4 & 5
0511	10-85	SHEET 25

DC-295C

NOTE:
1. NUMBERS FOUND WITHIN THE HEXAGON SYMBOLS INDICATES SHEETS WHERE CONTINUED LOGIC WILL BE FOUND EXAMPLE (2) = SHEET 2

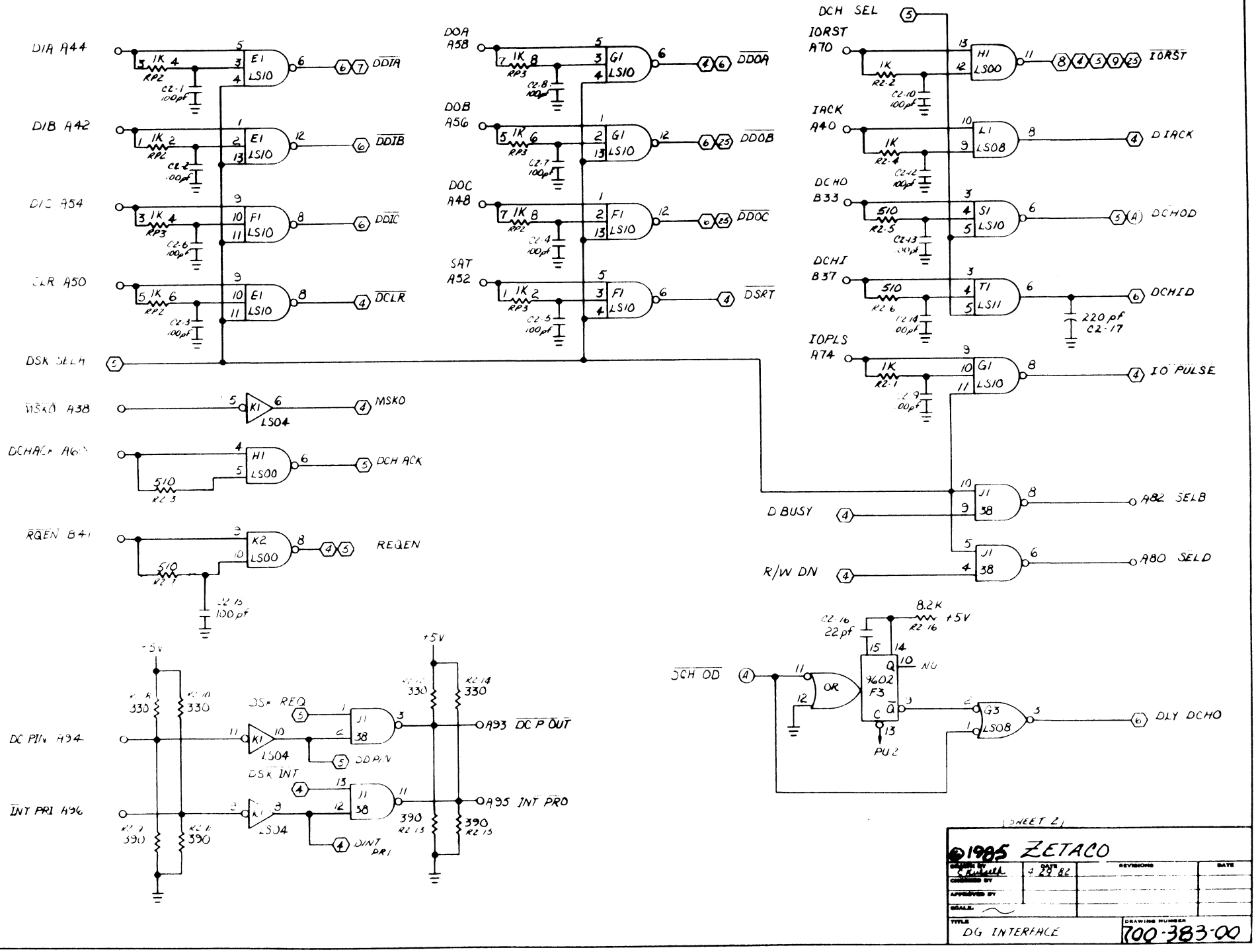
(SHEET 1 of 25)

[redacted] ZETACO

[redacted]	6-27-84		

DC-295C [redacted]-00 C

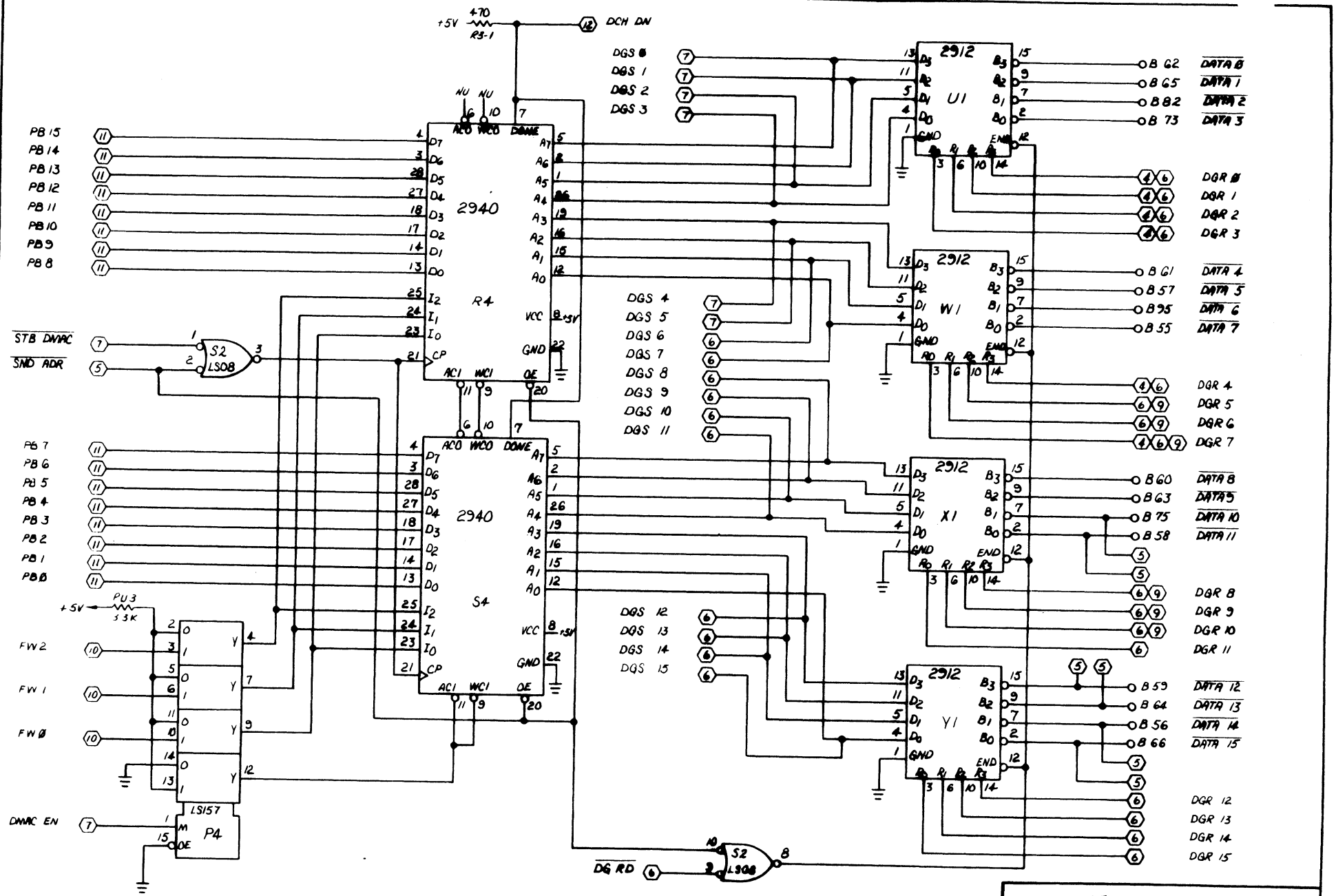
700383-0008



DRAWN BY	DATE 4 29 82	REVISIONS	DATE
CHECKED BY			
APPROVED BY			
SCALE:			
TITLE: DG INTERFACE		DRAWING NUMBER: 700-383-00	

(SHEET 2)

700383-000 B

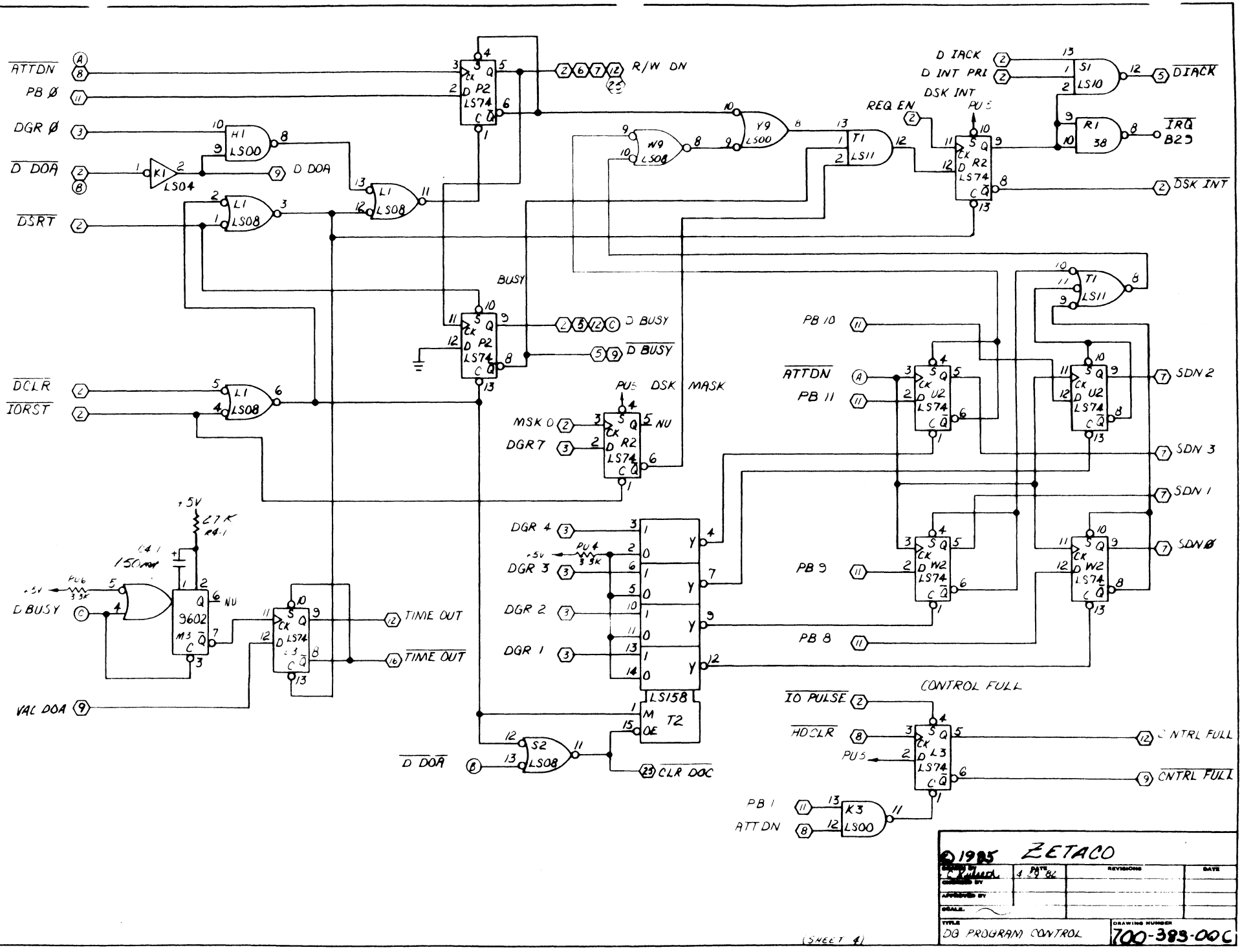


DCH DR/REC & ADDR GEN

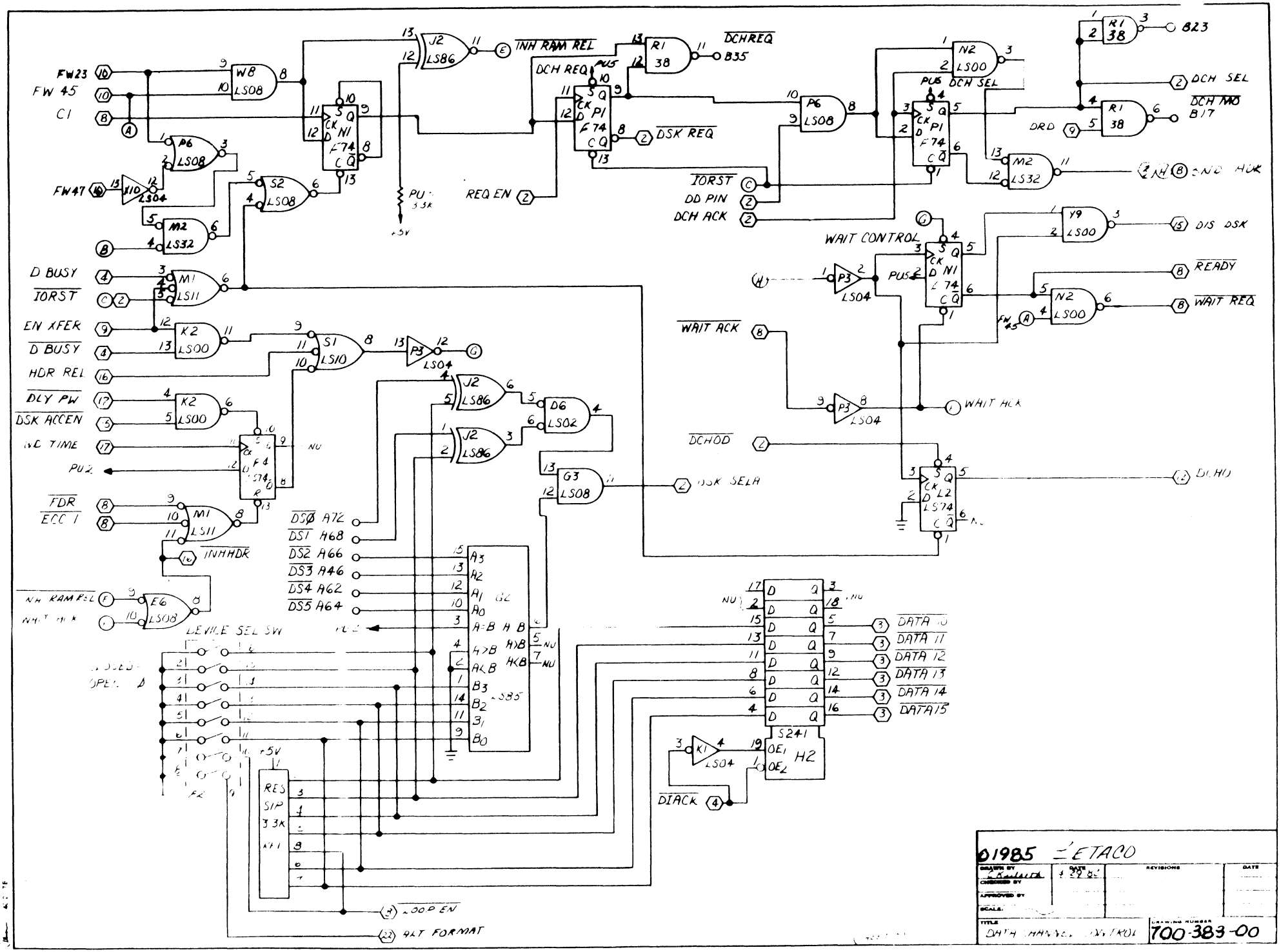
700-383-00 C

(SHEET 3)

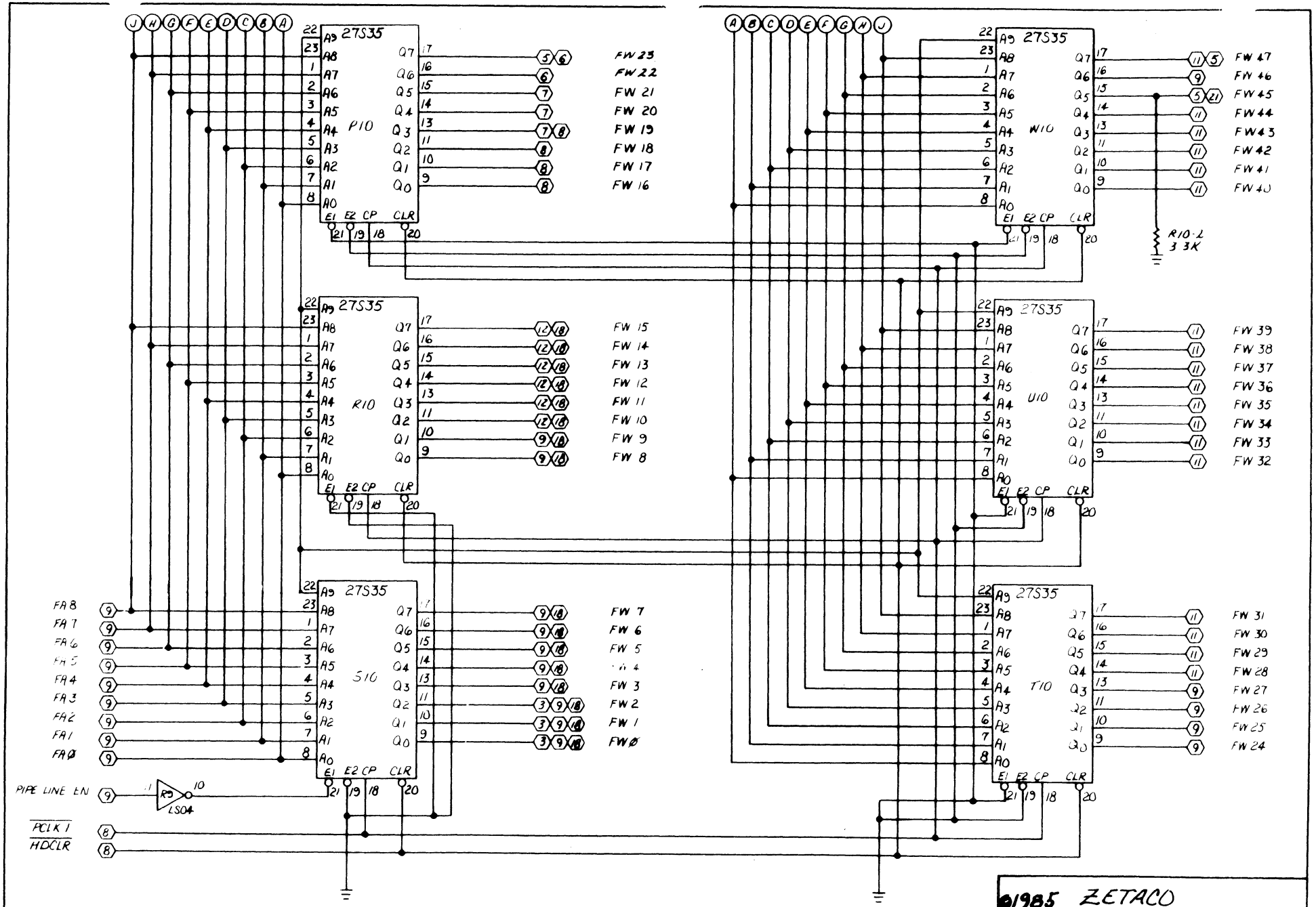
700383-000 B


ATTDN
PB Ø
DGR Ø
D DOA
DSRT
DCLR
IORST
R/W DN
D IACK
D INT PRI
DSK INT
REQ EN
DIACK
IRQ B25
DSK INT
BUSY
D BUSY
PB 10
ATTDN
PB 11
SDN 2
SDN 3
SDN 1
SDNØ
PB 9
PB 8
MSK 0
DGR 7
DSK MASK
DGR 4
DGR 3
DGR 2
DGR 1
LS158
TIME OUT
VAL DOA
IO PULSE
HDCLR
CONTROL FULL
CNTRL FULL
PB 1
ATT DN
CLR DOC
1985 ZETACO
DG PROGRAM CONTROL
700-383-00C
(SHEET 1)

700383-00B


FW23
FW 45
C1
FW47
D BUSY
IORST
EN XFER
D BUSY
HDR REL
DLY PW
DSK ACCEN
FDR
ECC 1
INH RAM REL
DCH REQ
DCHREQ
B35
DSK REQ
REQ EN
IORST
DD PIN
DCH ACK
B23
DCH SEL
DCH MO
B17
DRD
WAIT CONTROL
DIS DSK
READY
WAIT REQ
WAIT ACK
WAIT HDR
DCHOD
DSK SELA
DS0 A72
DS1 A68
DS2 A66
DS3 A46
DS4 A62
DS5 A64
LEVEL SEL SW
+5V
RES SIP 33K
DATA 10
DATA 11
DATA 12
DATA 13
DATA 14
DATA15
DIACK
LOOP EN
ALT FORMAT
©1985 ETACO
DRAWN BY
CHECKED BY
APPROVED BY
SCALE
REVISIONS
DATE
TITLE
DATA CHANNEL CONTROL
DRAWING NUMBER
700-383-00

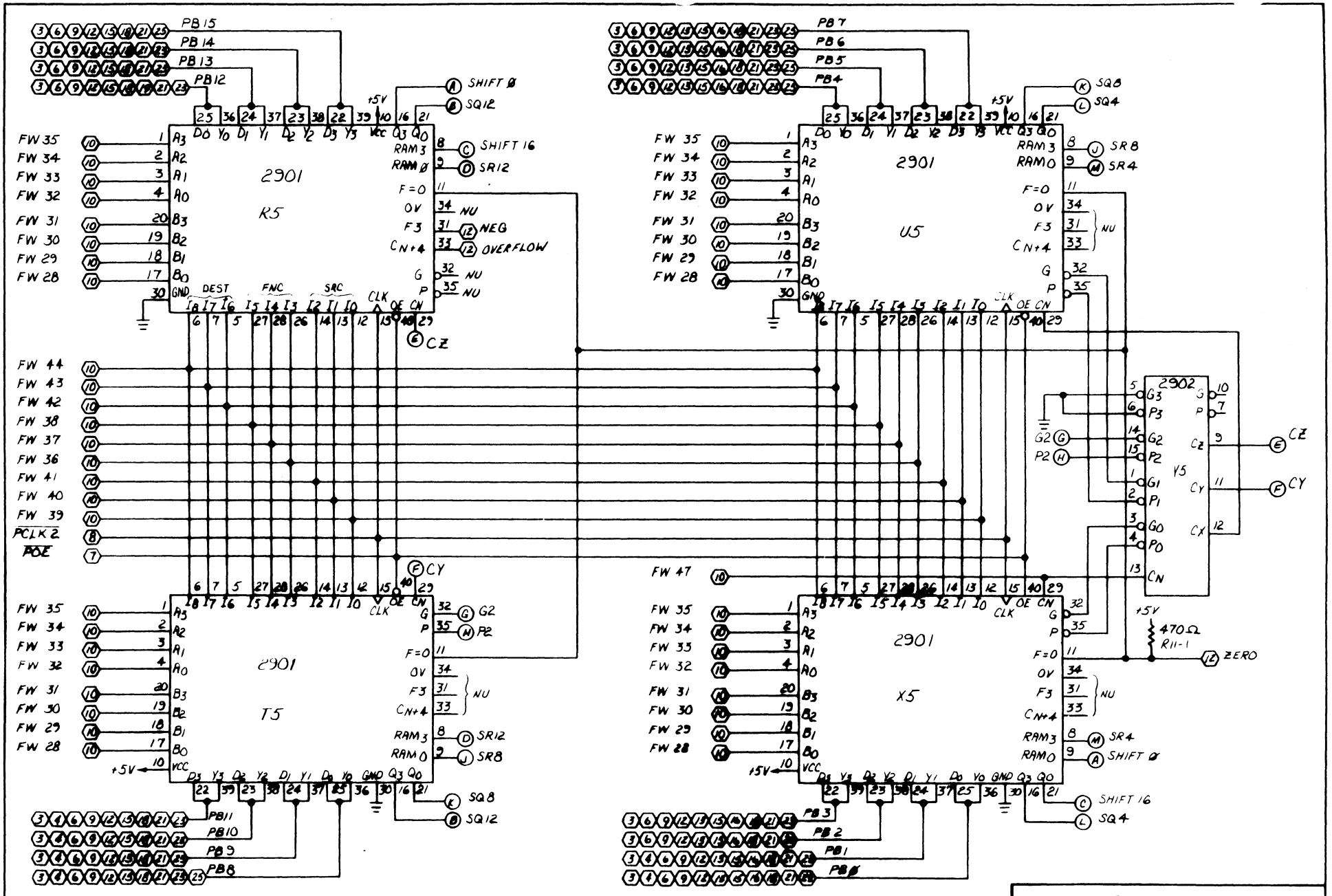
700383-0008



DESIGNED BY Ekulant	4-28-82	REVISIONS	DATE
CHECKED BY			
APPROVED BY			
SCALE:			
TITLE: FIRMWARE		DRAWING NUMBER: 700-383-00 C	

(SHEET 10)

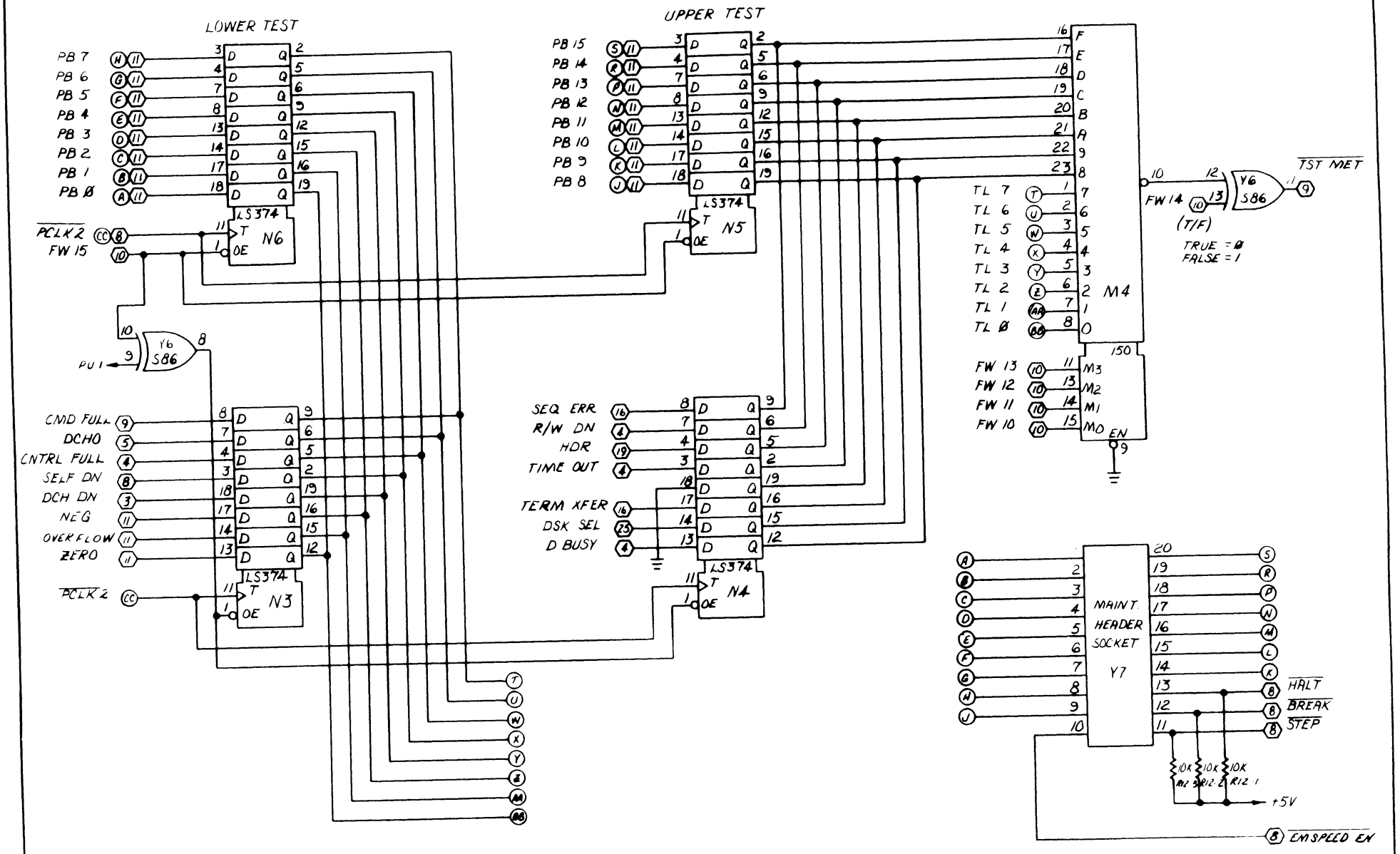
700383-0008



(SHEET 11)

ZETACO			
DRAWN BY	4-29-82	REVISIONS	DATE
CHECKED BY			
APPROVED BY			
SCALE			
TITLE: PROCESSOR		DRAWING NUMBER: 700-383-00C	

700383-000B

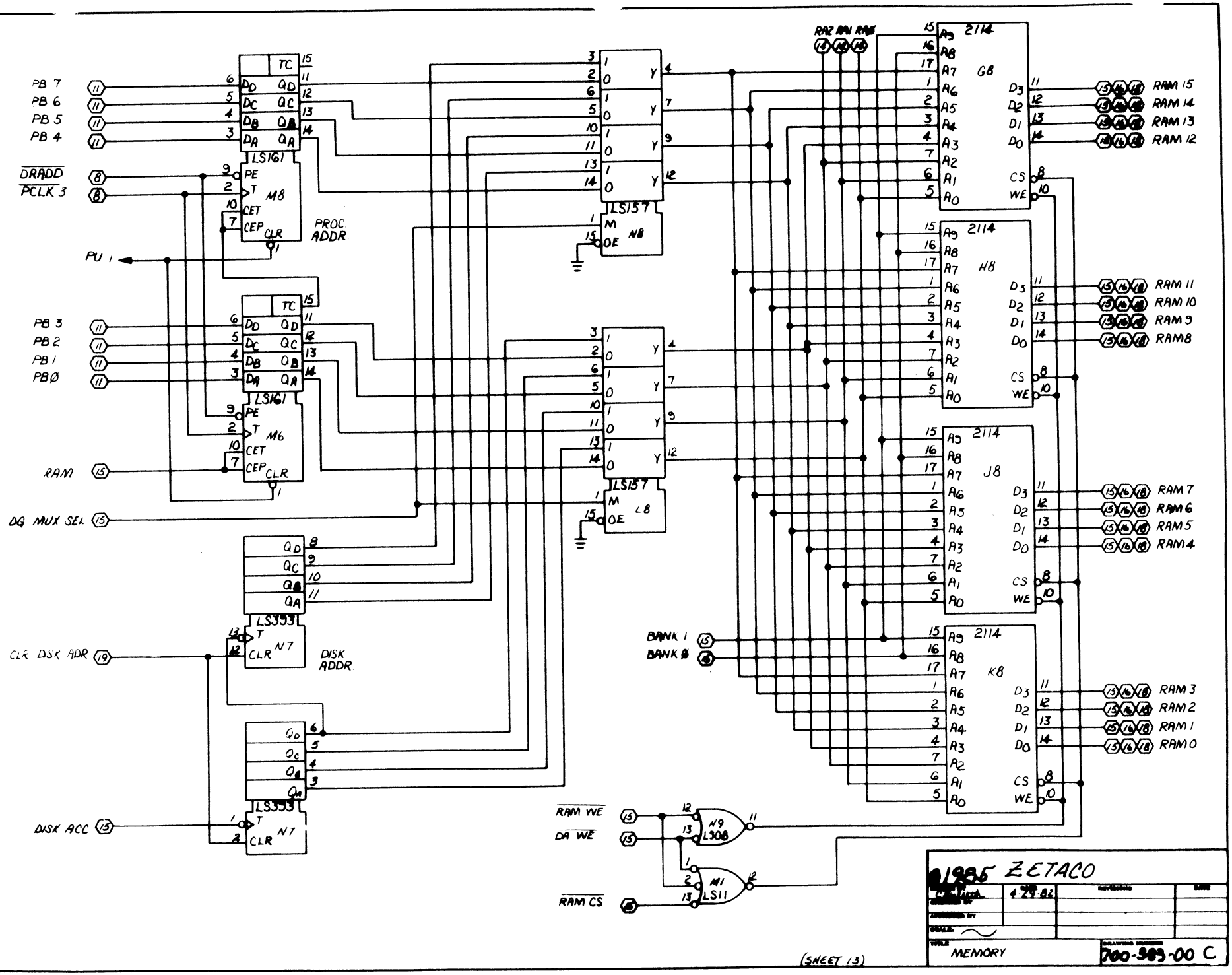


(SHEET 12)

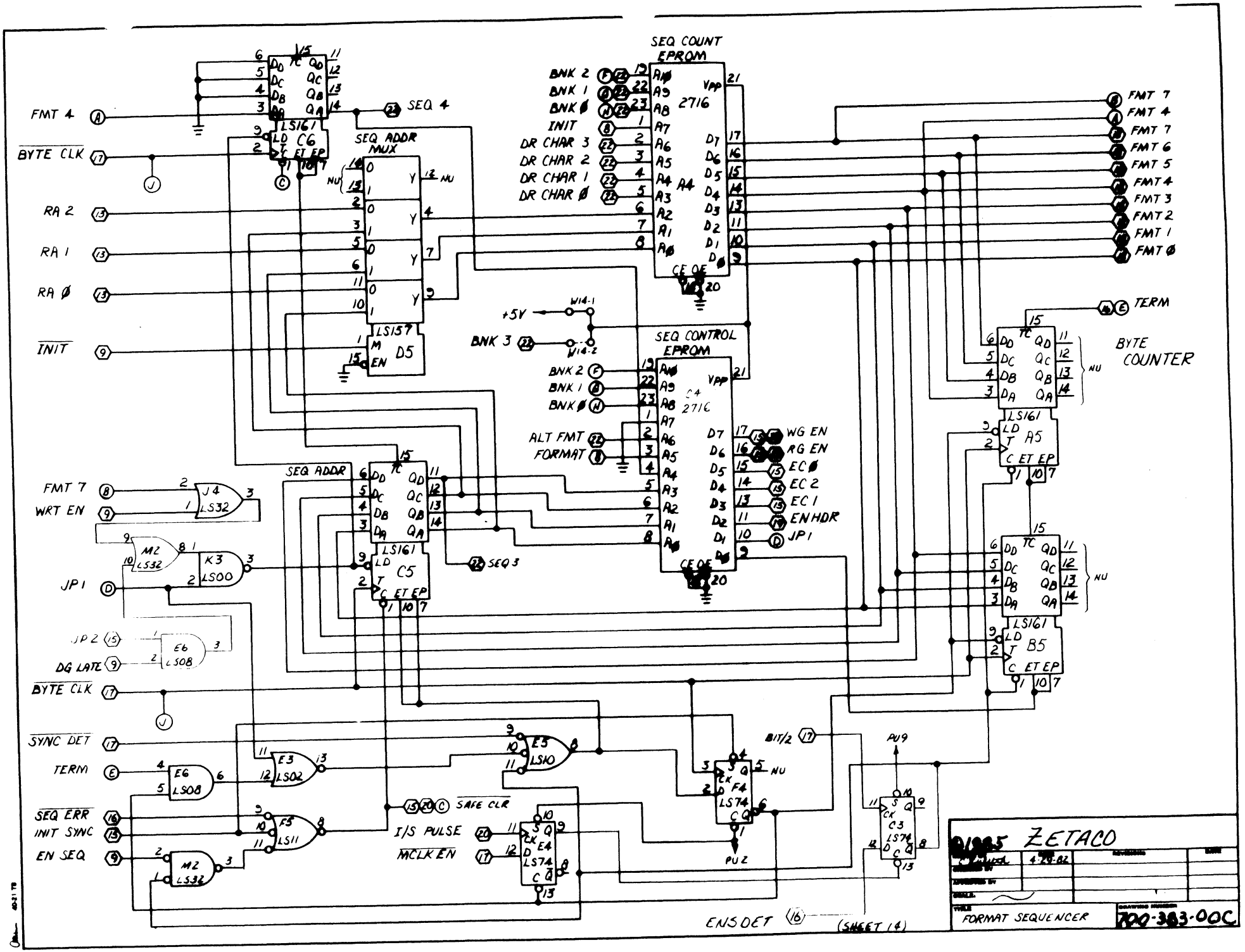
DRAWN BY C Mirsch	4-29-82	REVISIONS	DATE
CHECKED BY			
APPROVED BY			
SCALE: ~			
TITLE: TEST CONDITION		DRAWING NUMBER: 700-383-00 C	

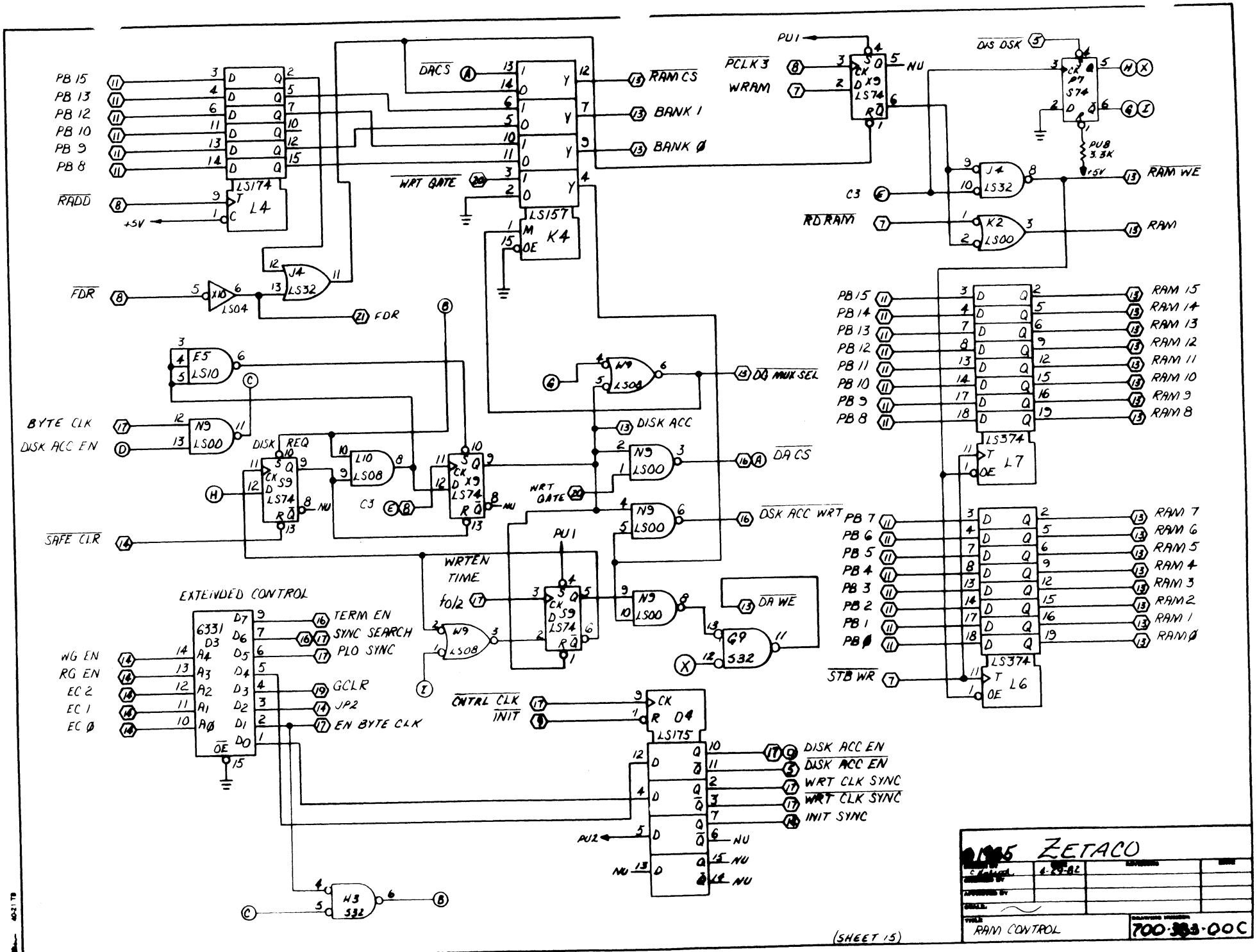
4021 78

700383-000B

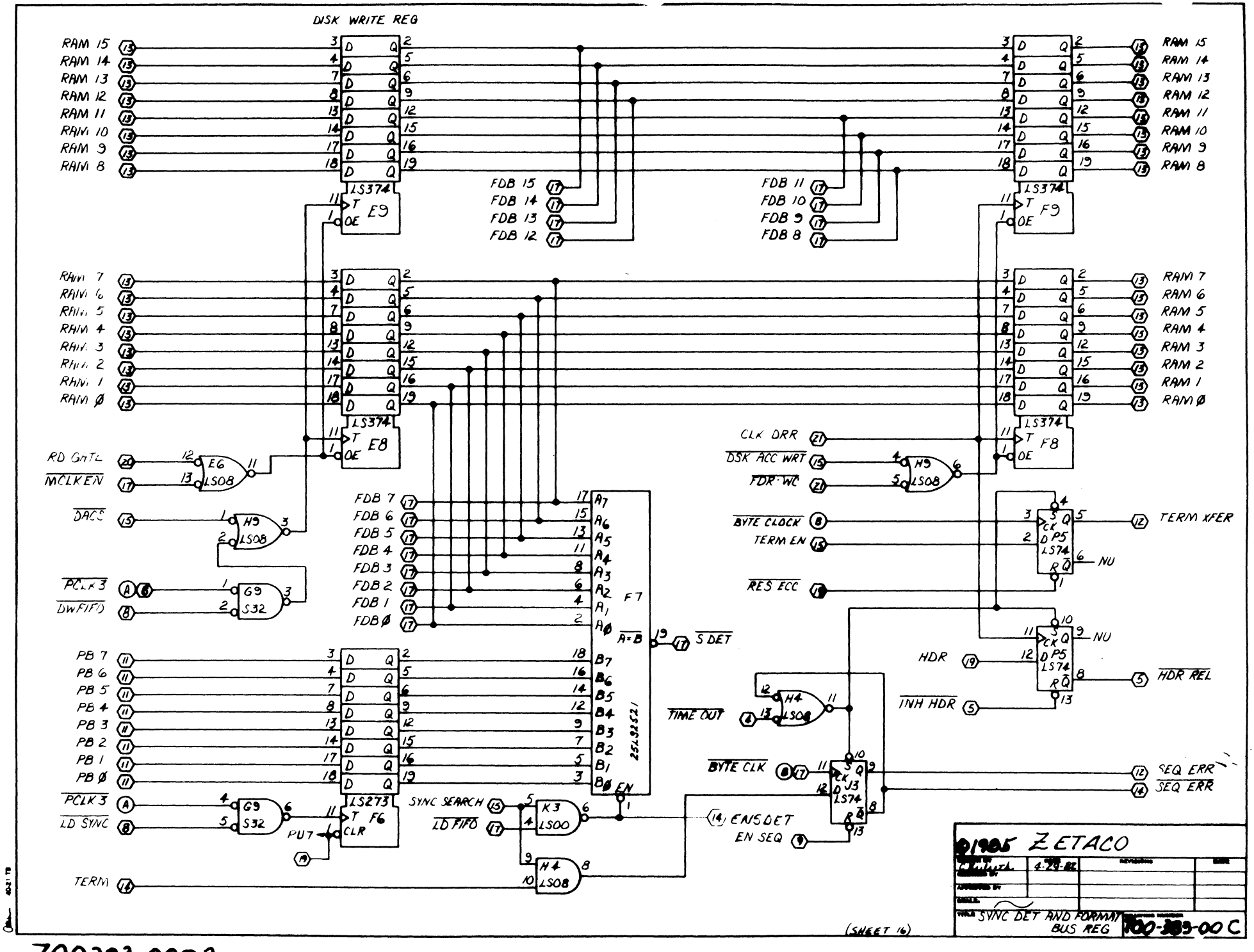

PB 7
PB 6
PB 5
PB 4
DRADD
PCLK 3
PU 1
LS161
M8
PROC ADDR
PB 3
PB 2
PB 1
PBØ
M6
RAM
DG MUX SEL
LS157
N8
L8
LS393
CLR DSK ADR
N7
DISK ADDR
DISK ACC
RA2 RA1 RA0
2114
G8
H8
J8
K8
BANK 1
BANK Ø
RAM 15
RAM 14
RAM 13
RAM 12
RAM 11
RAM 10
RAM 9
RAM8
RAM 7
RAM 6
RAM 5
RAM 4
RAM 3
RAM 2
RAM 1
RAM 0
RAM WE
DA WE
RAM CS
N9
L30B
M1
LS11
©1985 ZETACO
4-29-82
MEMORY
700-383-00 C
(SHEET 13)

700383-000B

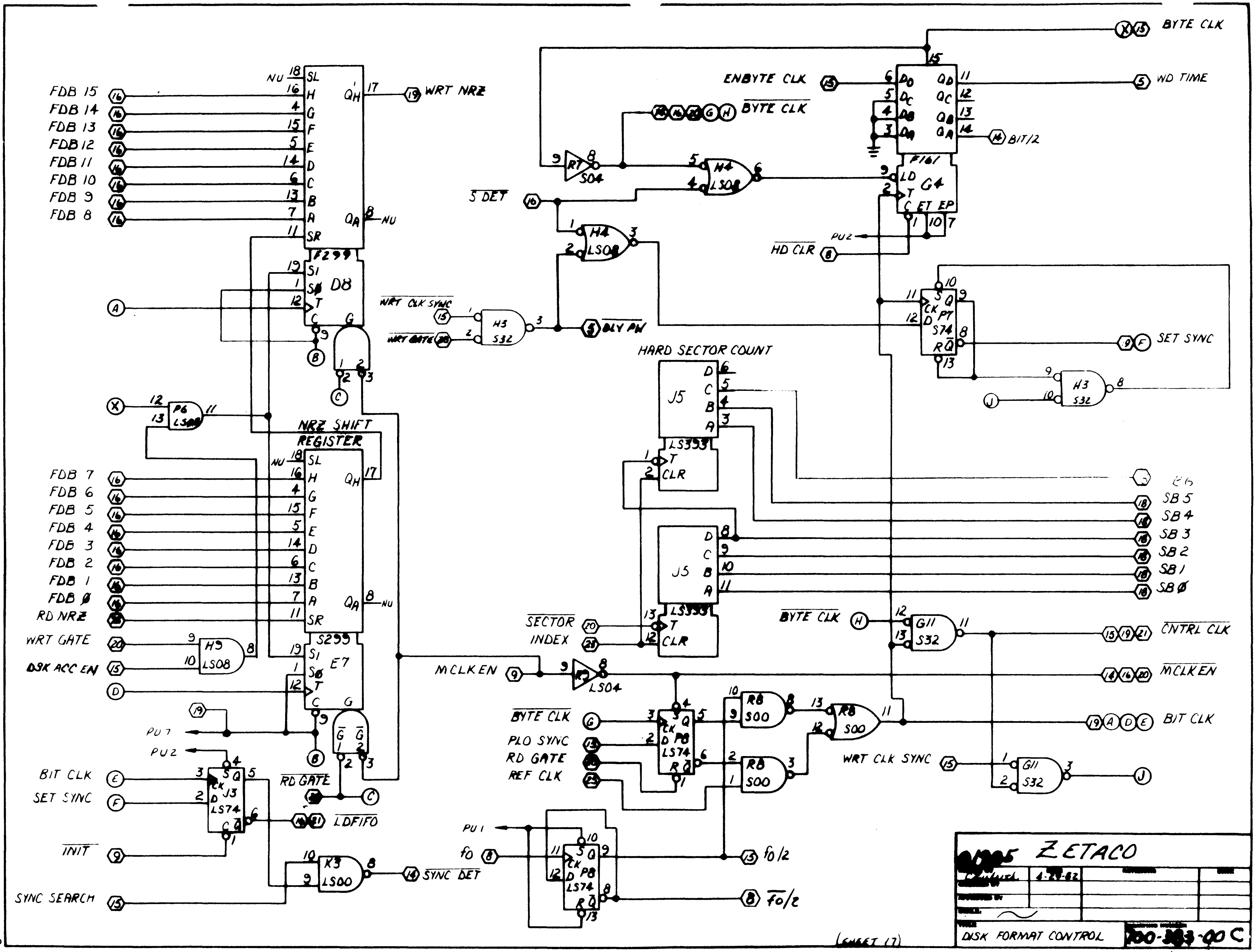

SEQ COUNT EPROM
SEQ CONTROL EPROM
SEQ ADDR MUX
SEQ ADDR
BYTE COUNTER
FMT 4
BYTE CLK
RA 2
RA 1
RA Ø
INIT
FMT 7
WRT EN
JP1
JP2
DG LATE
SYNC DET
TERM
SEQ ERR
INIT SYNC
EN SEQ
I/S PULSE
MCLK EN
SAFE CLR
BIT/2
ENSDET
TERM
WG EN
RG EN
EC Ø
EC 2
EC 1
EN HDR
JP1
ALT FMT FORMAT
BNK 3
+5V
FMT 7
FMT 4
FMT 7
FMT 6
FMT 5
FMT 4
FMT 3
FMT 2
FMT 1
FMT Ø
ZETACO
FORMAT SEQUENCER
700-383-00C
700383-000B


PB 15
PB 13
PB 12
PB 10
PB 9
PB 8
RADD
L4
LS174
+5V
DACS
RAM CS
BANK 1
BANK Ø
WRT GATE
K4
LS157
J4
LS32
FDR
LS04
FDR
PU1
PCLK 3
WRAM
NU
DAS DSK
PU8
3.3K
+5V
RAM WE
C3
RD RAM
K2
LS00
RAM
PB 15
PB 14
PB 13
PB 12
PB 11
PB 10
PB 9
PB 8
LS374
L7
RAM 15
RAM 14
RAM 13
RAM 12
RAM 11
RAM 10
RAM 9
RAM 8
E5
LS10
DQ MUX SEL
BYTE CLK
DISK ACC EN
N9
LS00
DISK REQ
L10
LS08
DISK ACC
DA CS
WRT GATE
DSK ACC WRT
SAFE CLR
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB Ø
LS374
L6
RAM 7
RAM 6
RAM 5
RAM 4
RAM 3
RAM 2
RAM 1
RAM Ø
STB WR
WRTEN
TIME
fo/2
W9
LS08
G9
532
DA WE
EXTENDED CONTROL
6331
D3
WG EN
RG EN
EC 2
EC 1
EC Ø
TERM EN
SYNC SEARCH
PLO SYNC
GCLR
JP2
EN BYTE CLK
CNTRL CLK
INIT
LS175
DISK ACC EN
DISK ACC EN
WRT CLK SYNC
WRT CLK SYNC
INIT SYNC
PU2
NU
H3
532
(SHEET 15)
ZETACO
4-29-82
RAM CONTROL
700-383-00C

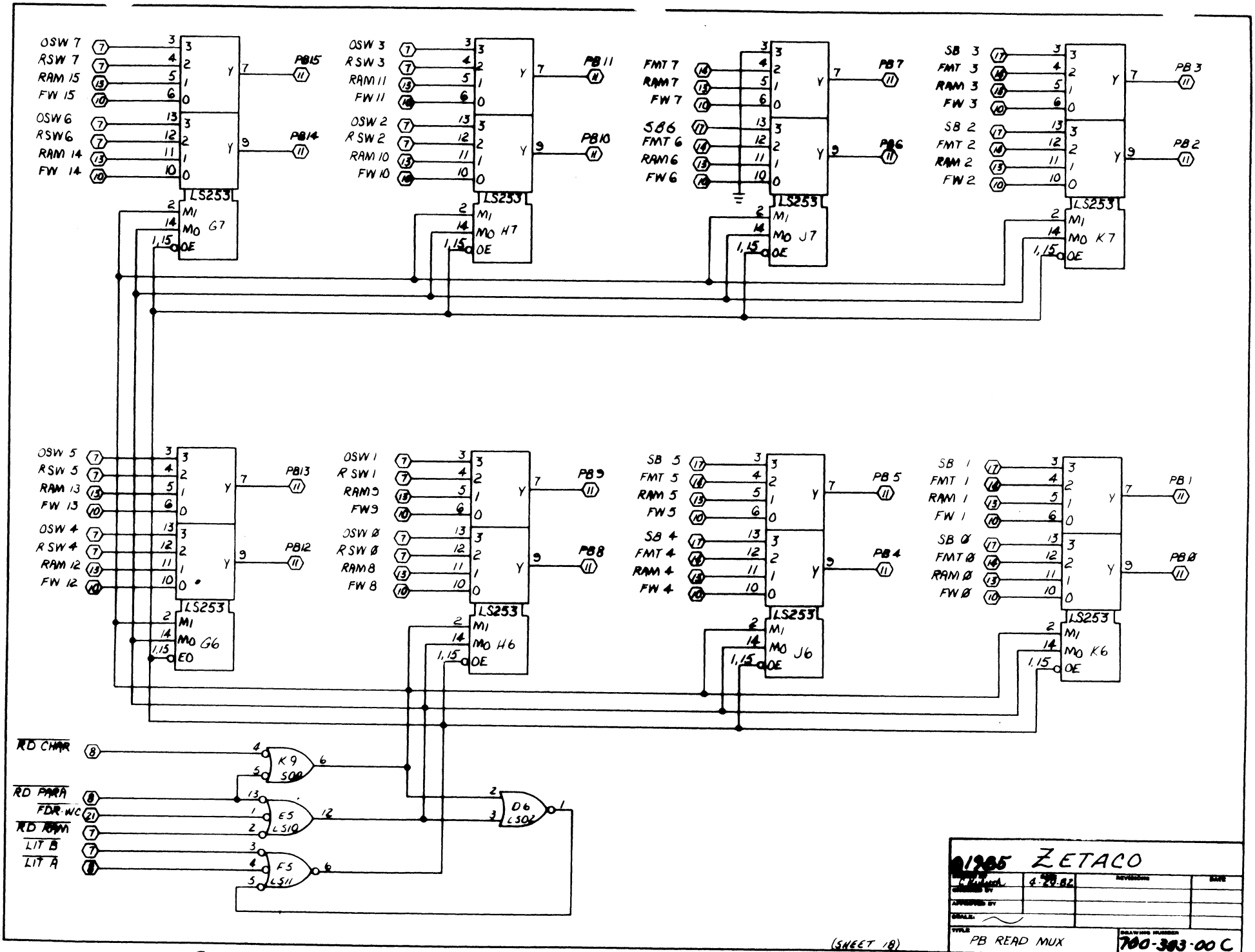
700383-0008


DISK WRITE REG
RAM 15
RAM 14
RAM 13
RAM 12
RAM 11
RAM 10
RAM 9
RAM 8
LS374
E9
F9
E8
F8
FDB 15
FDB 14
FDB 13
FDB 12
FDB 11
FDB 10
FDB 9
FDB 8
RAM 7
RAM 6
RAM 5
RAM 4
RAM 3
RAM 2
RAM 1
RAM Ø
RD GATE
MCLKEN
E6
LS08
DACS
H9
G9
S32
PCLK 3
DWFIFO
FDB 7
FDB 6
FDB 5
FDB 4
FDB 3
FDB 2
FDB 1
FDBØ
F7
25LS2521
A=B
S DET
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB Ø
LS273
F6
LD SYNC
PU?
CLR
SYNC SEARCH
LD FIFO
K3
LS00
H4
LS08
TERM
ENSDET
EN SEQ
CLK DRR
DSK ACC WRT
FDR WC
BYTE CLOCK
TERM EN
RES ECC
TERM XFER
NU
HDR
INH HDR
HDR REL
TIME OUT
BYTE CLK
J3
LS74
SEQ ERR
SEQ ERR
(SHEET 16)
SYNC DET AND FORMAT BUS REG
700383-000 C
ZETACO
4-29-82

700383-000 B


ZETACO
DISK FORMAT CONTROL
700-383-00 C
4-29-82
NRZ SHIFT REGISTER
HARD SECTOR COUNT
FDB 15
FDB 14
FDB 13
FDB 12
FDB 11
FDB 10
FDB 9
FDB 8
FDB 7
FDB 6
FDB 5
FDB 4
FDB 3
FDB 2
FDB 1
FDB Ø
RD NRZ
WRT GATE
DSK ACC EN
BIT CLK
SET SYNC
INIT
SYNC SEARCH
WRT NRZ
LDFIFO
SYNC DET
RD GATE
WRT CLK SYNC
DLY PW
S DET
ENBYTE CLK
BYTE CLK
WD TIME
BIT/2
HD CLR
SB 5
SB 4
SB 3
SB 2
SB 1
SB Ø
SECTOR
INDEX
CNTRL CLK
MCLKEN
PLO SYNC
REF CLK
f0
f0/2
PU 1
PU 2
PU 7

700383-000B

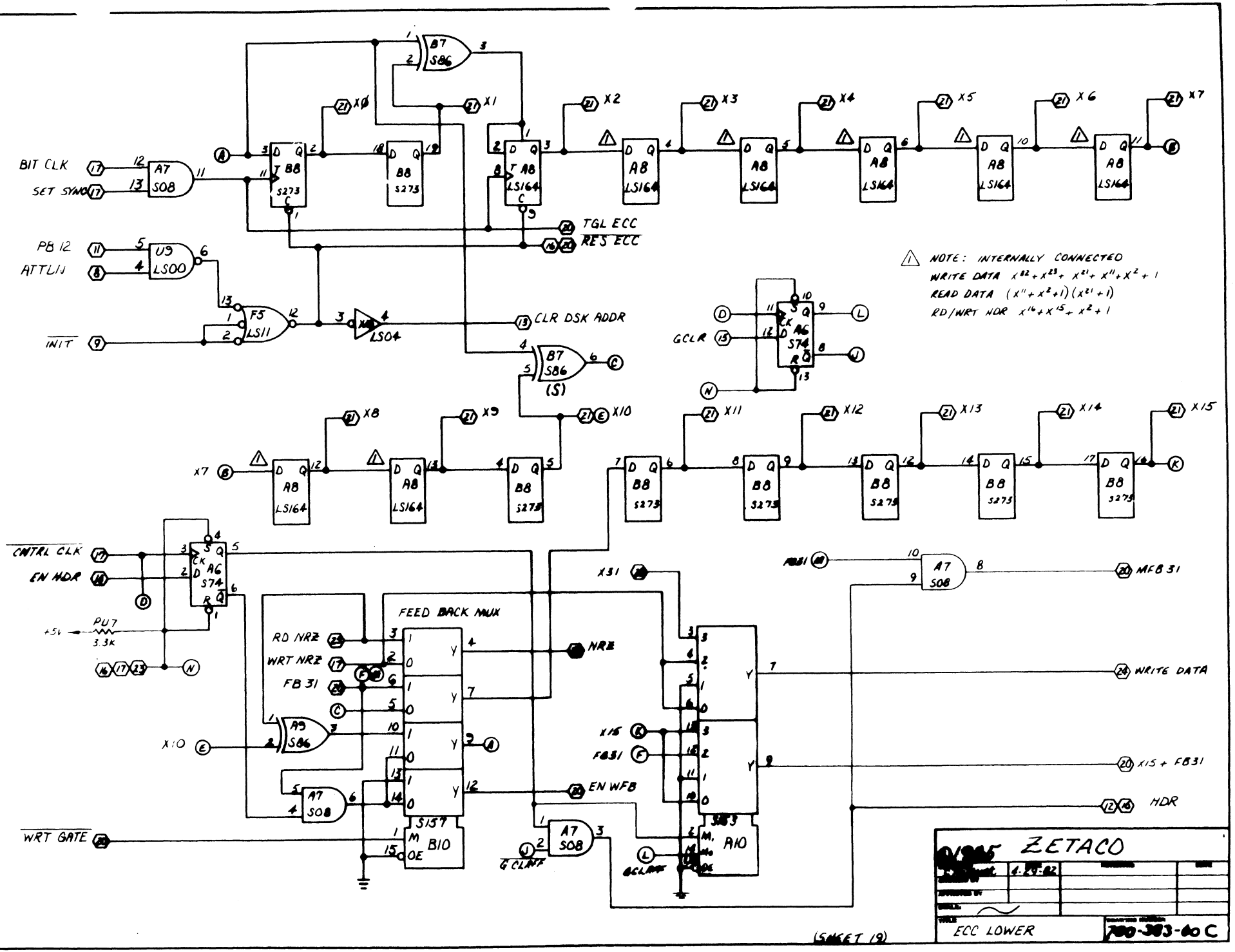


(SHEET 18)

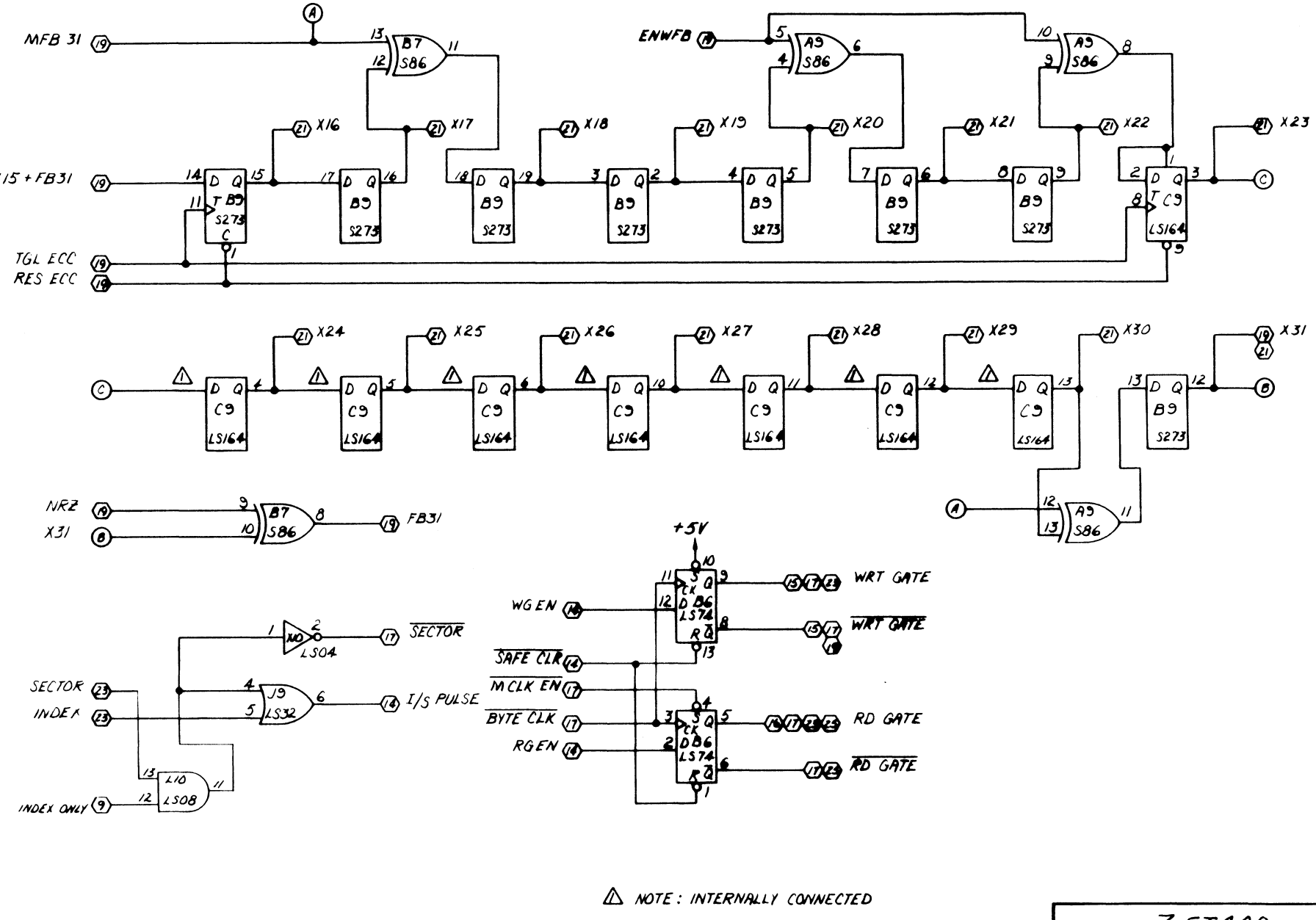
1985 ZETACO

DRAWN BY	4-20-82	REVISIONS	DATE
APPROVED BY			
SCALE:			
TITLE: PB READ MUX		DRAWING NUMBER: 700-383-00 C	

700383-000B


BIT CLK
SET SYNC
PB 12
ATTLN
INIT
TGL ECC
RES ECC
CLR DSK ADDR
NOTE: INTERNALLY CONNECTED
WRITE DATA X^32 + X^23 + X^21 + X^11 + X^2 + 1
READ DATA (X^11 + X^2 + 1)(X^21 + 1)
RD/WRT HDR X^16 + X^15 + X^2 + 1
GCLR
CNTRL CLK
EN HDR
+5V
PU7
3.3K
FEED BACK MUX
RD NRZ
WRT NRZ
FB 31
NRZ
EN WFB
WRT GATE
MFB 31
WRITE DATA
X15 + FB31
HDR
ECC LOWER
ZETACO
700-383-60 C
(SHEET 19)

700383-000 B



⚠ NOTE: INTERNALLY CONNECTED

(SHEET 20)

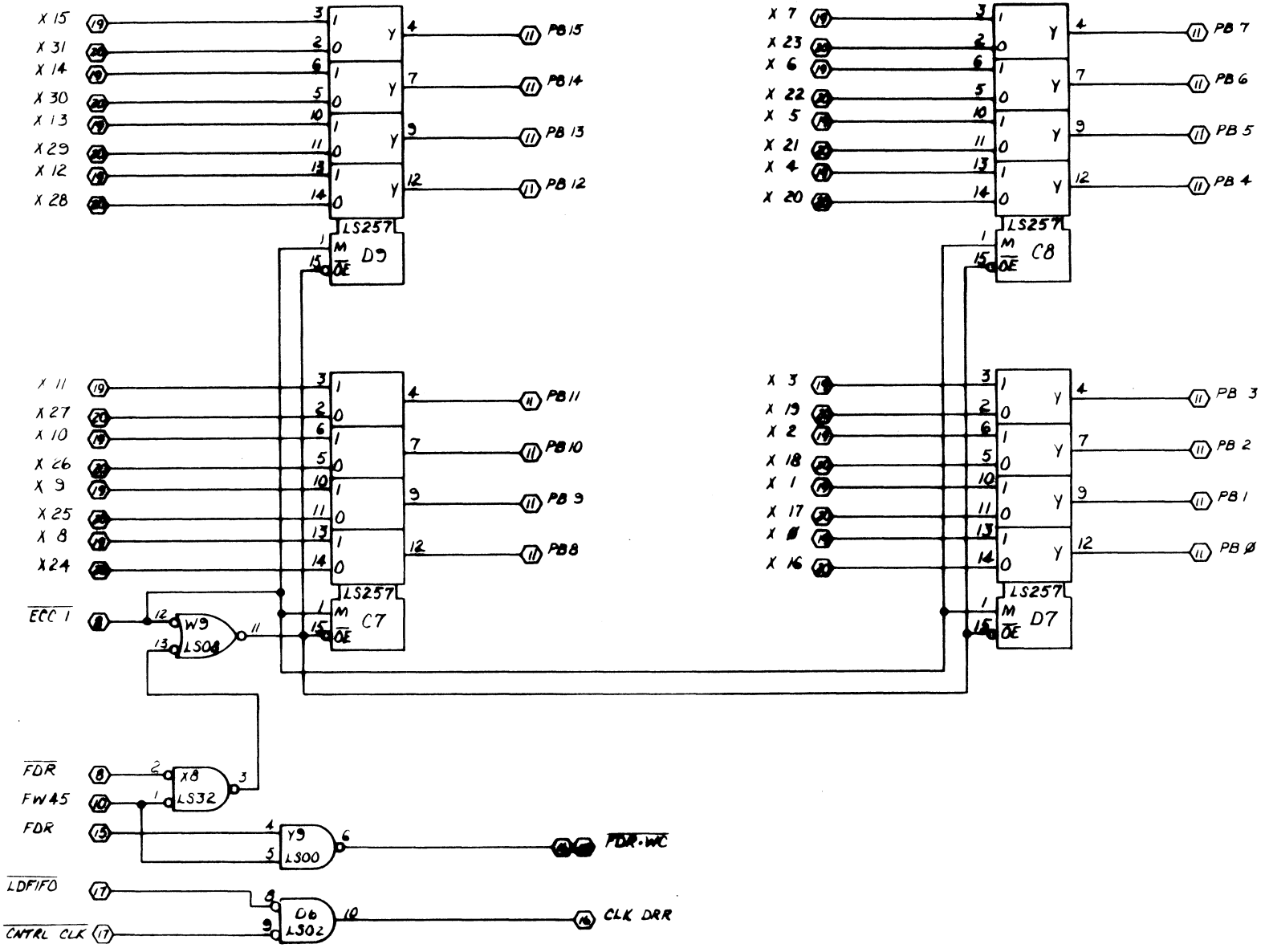
Approved	4-28-82		

ZETACO

TITLE: ECC UPPER

DRAWING NUMBER: 700-383-00 C

700383-000 B



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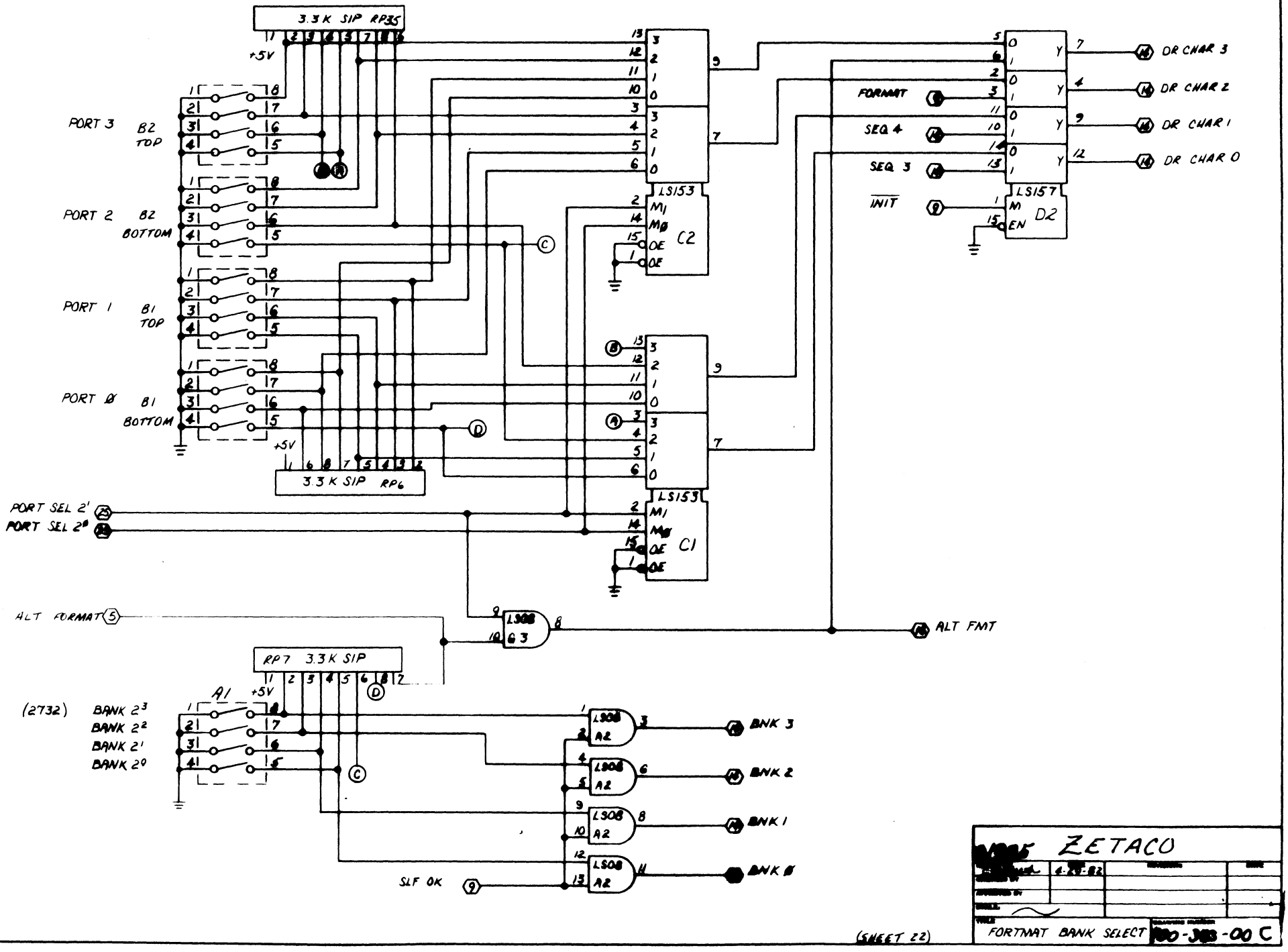
	4-29-82		

TITLE: ECC OUT PUT SELECT

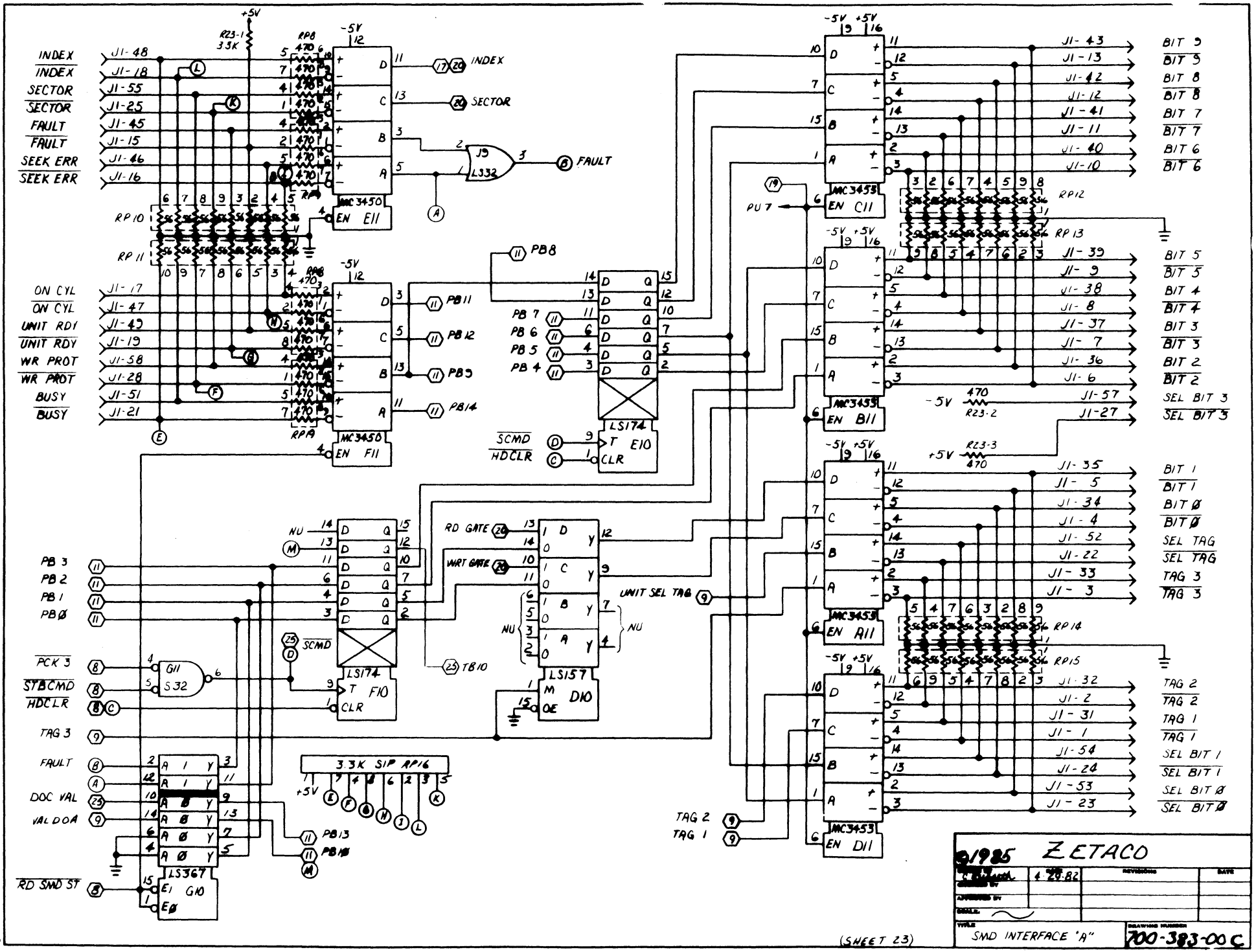
700383-000 C

SHEET 21

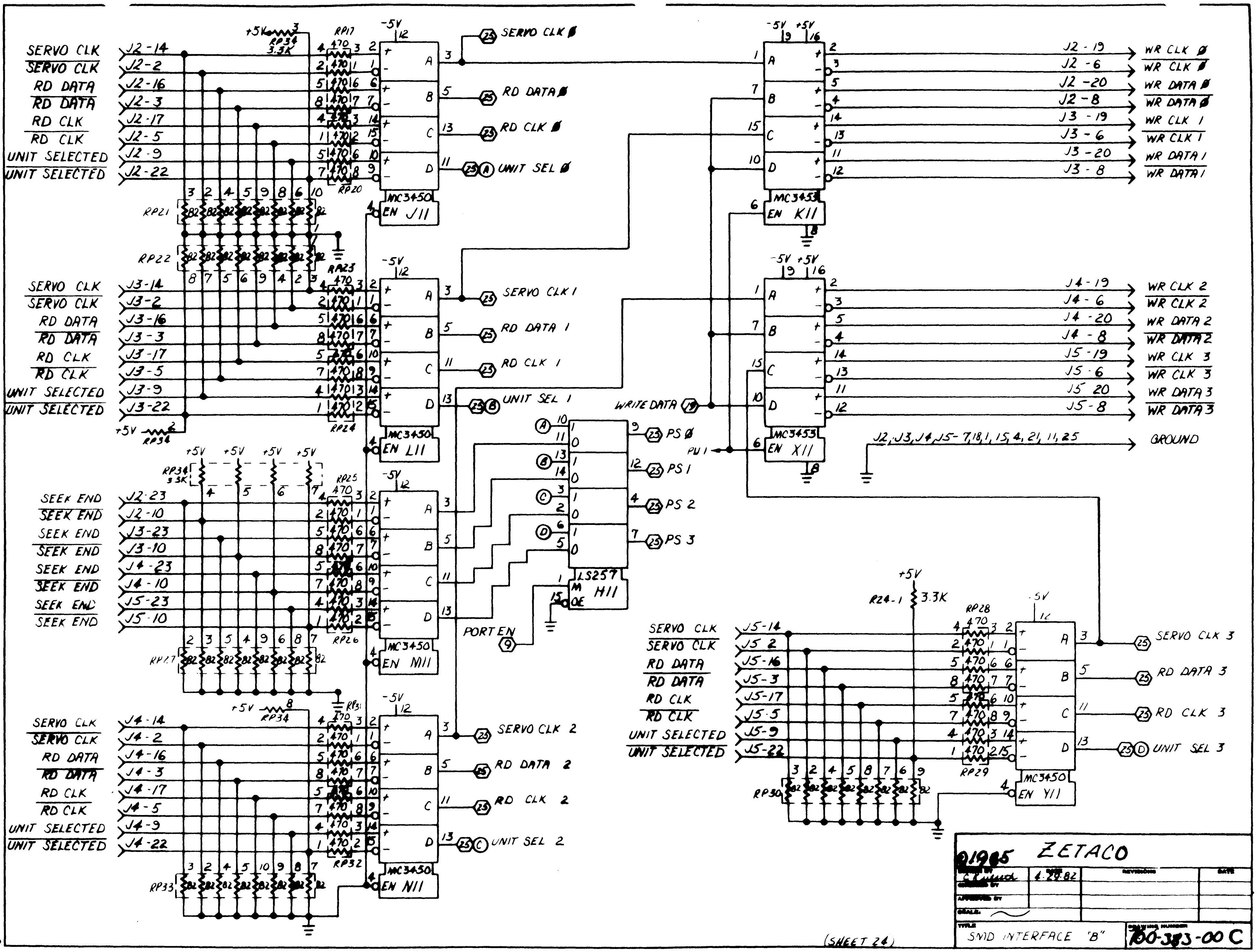
700383-000 B


3.3K SIP RP35
+5V
PORT 3 B2 TOP
PORT 2 B2 BOTTOM
PORT 1 B1 TOP
PORT 0 B1 BOTTOM
+5V
3.3K SIP RP6
LS153 C2
LS153 C1
LS157 D2
FORMAT
SEQ 4
SEQ 3
INIT
DR CHAR 3
DR CHAR 2
DR CHAR 1
DR CHAR 0
PORT SEL 2'
PORT SEL 2⁰
ALT FORMAT
LS08 G 3
ALT FMT
RP7 3.3K SIP
A1
+5V
(2732)
BANK 2³
BANK 2²
BANK 2¹
BANK 2⁰
LS08 A2
BNK 3
BNK 2
BNK 1
BNK 0
SLF OK
(SHEET 22)
ZETACO
4-29-82
FORTNAT BANK SELECT
700383-00 C

700383-000 B


INDEX
INDEX
SECTOR
SECTOR
FAULT
FAULT
SEEK ERR
SEEK ERR
ON CYL
ON CYL
UNIT RDY
UNIT RDY
WR PROT
WR PROT
BUSY
BUSY
PB 3
PB 2
PB 1
PB Ø
PCK 3
STBCMD
HDCLR
TAG 3
FAULT
DOC VAL
VAL DOA
RD SMD ST
+5V
-5V
R23-1 3.3K
RPB 470
RPA 470
RP10
RP11
MC3450 EN E11
MC3450 EN F11
J9 LS32
LS174 T E10 CLR
LS174 T F10 CLR
LS157 M D10 OE
G11 S32
LS367 E1 GND Eø
3.3K SIP RP16
SCMD
HDCLR
RD GATE
WRT GATE
UNIT SEL TAG
TB10
PB8
PB7
PB6
PB5
PB4
PB11
PB12
PB9
PB14
PB13
PB10
NU
MC3453 EN C11
MC3453 EN B11
MC3453 EN A11
MC3453 EN D11
PU7
R23-2 470
R23-3 470
RP12
RP13
RP14
RP15
BIT 9
BIT 5
BIT 8
BIT 7
BIT 6
BIT 4
BIT 3
BIT 2
SEL BIT 3
BIT 1
BIT Ø
SEL TAG
TAG 3
TAG 2
TAG 1
SEL BIT 1
SEL BIT Ø
TAG 2
TAG 1
(SHEET 23)
©1985 ZETACO
4-29-82
SMD INTERFACE "A"
700-383-00C

700383-000B


SERVO CLK
SERVO CLK
RD DATA
RD DATA
RD CLK
RD CLK
UNIT SELECTED
UNIT SELECTED
J2-14
J2-2
J2-16
J2-3
J2-17
J2-5
J2-9
J2-22
+5V
RP34
3.3K
RP17
470
RP20
RP21
RP22
82
-5V
MC3450
EN J11
SERVO CLK Ø
RD DATA Ø
RD CLK Ø
UNIT SEL Ø
J3-14
J3-2
J3-16
J3-3
J3-17
J3-5
J3-9
J3-22
RP23
RP24
EN L11
SERVO CLK 1
RD DATA 1
RD CLK 1
UNIT SEL 1
SEEK END
J2-23
J2-10
J3-23
J3-10
J4-23
J4-10
J5-23
J5-10
RP25
RP26
RP27
EN M11
PORT EN
J4-14
J4-2
J4-16
J4-3
J4-17
J4-5
J4-9
J4-22
RP31
RP32
RP33
EN N11
SERVO CLK 2
RD DATA 2
RD CLK 2
UNIT SEL 2
LS257
H11
PS Ø
PS 1
PS 2
PS 3
WRITE DATA
PU 1
+5V
MC3453
EN K11
EN X11
J2-19
J2-6
J2-20
J2-8
J3-19
J3-6
J3-20
J3-8
WR CLK Ø
WR CLK Ø
WR DATA Ø
WR DATA Ø
WR CLK 1
WR CLK 1
WR DATA 1
WR DATA 1
J4-19
J4-6
J4-20
J4-8
J5-19
J5-6
J5-20
J5-8
WR CLK 2
WR CLK 2
WR DATA 2
WR DATA 2
WR CLK 3
WR CLK 3
WR DATA 3
WR DATA 3
J2, J3, J4, J5- 7,18, 1, 15, 4, 21, 11, 25
GROUND
R24-1
3.3K
J5-14
J5-2
J5-16
J5-3
J5-17
J5-5
J5-9
J5-22
RP28
RP29
RP30
EN Y11
SERVO CLK 3
RD DATA 3
RD CLK 3
UNIT SEL 3
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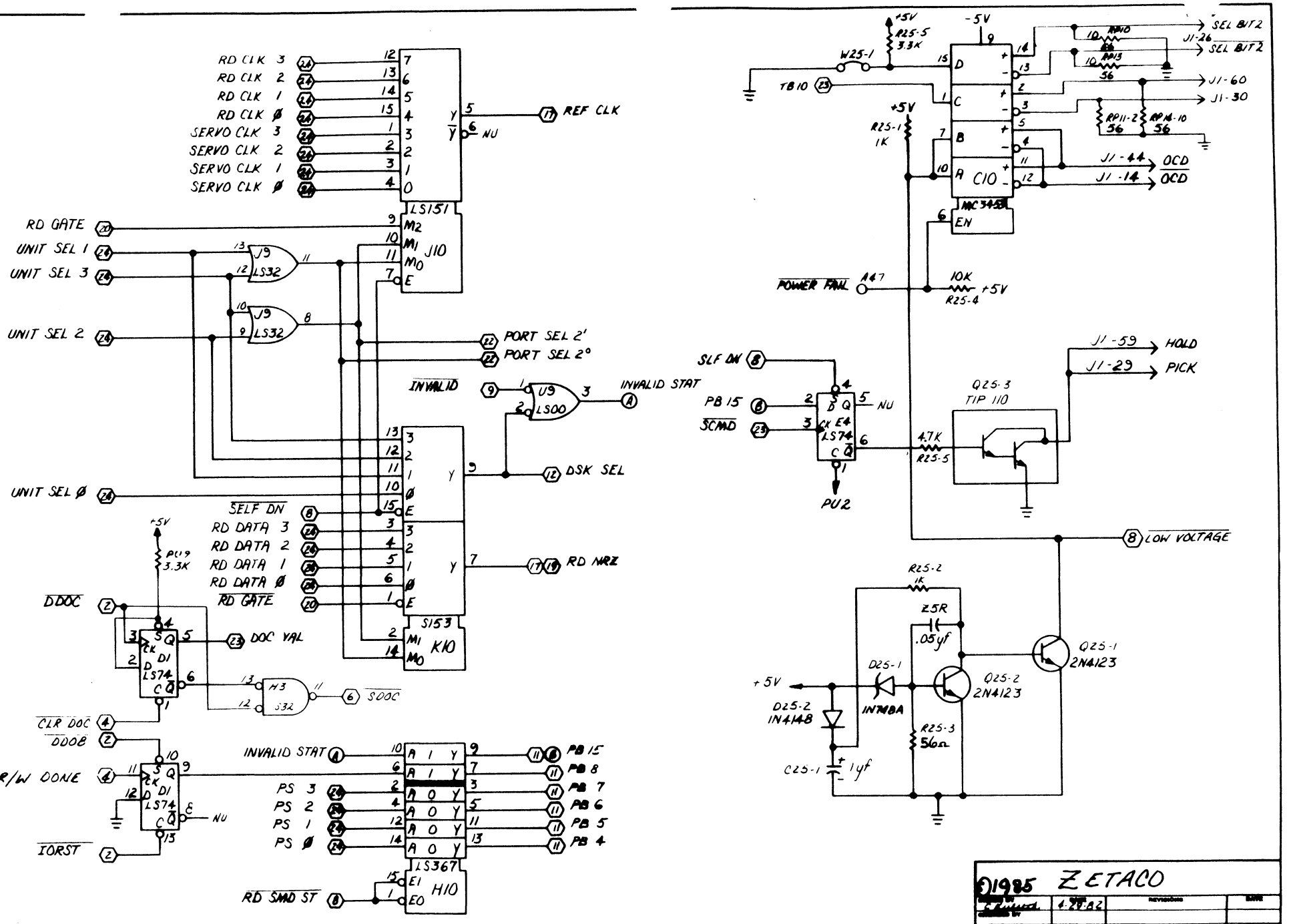
4-22-82
SMD INTERFACE "B"
700-383-00 C
(SHEET 24)

700383-000B



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DRAWN BY C. Tunnicliffe	4-29-82	REVISIONS	ISSUE
CHECKED BY			
APPROVED BY			
SCALE:			

TITLE: SMD INTERFACE "CONTROL" DRAWING NO. 700-383-00C

(SHEET 25)

700383-000B

REVISION HISTORY		
ECO	DATE	DESCRIPTION
0096	2-22-83	SHEETS: 5, 15, 17, 25 AFFECTED
0103	3-10-83	CORRECT SCHEMATICS
0148	6-6-83	SHEETS 2 & 8
0149	6-16-83	SHEETS 4 & 9
0217	1-4-84	SHEET 17 & 20
0258	3-13-84	SHEET 8, 15, 17, 19, 20, 25
0283	3-30-84	SHEET 4
0336	6-29-84	SHEETS 4, 5, 8, 14, 16, 17, 22, 25,
0376	9-04-84	SHEET 17 & 18
0418	12-7-84	SHEETS 4 & 5
0511	10-85	SHEET 25

DC-295C

NOTE:
1. NUMBERS FOUND WITHIN THE HEXAGON SYMBOLS INDICATES SHEETS WHERE CONTINUED LOGIC WILL BE FOUND EXAMPLE (2) = SHEET 2

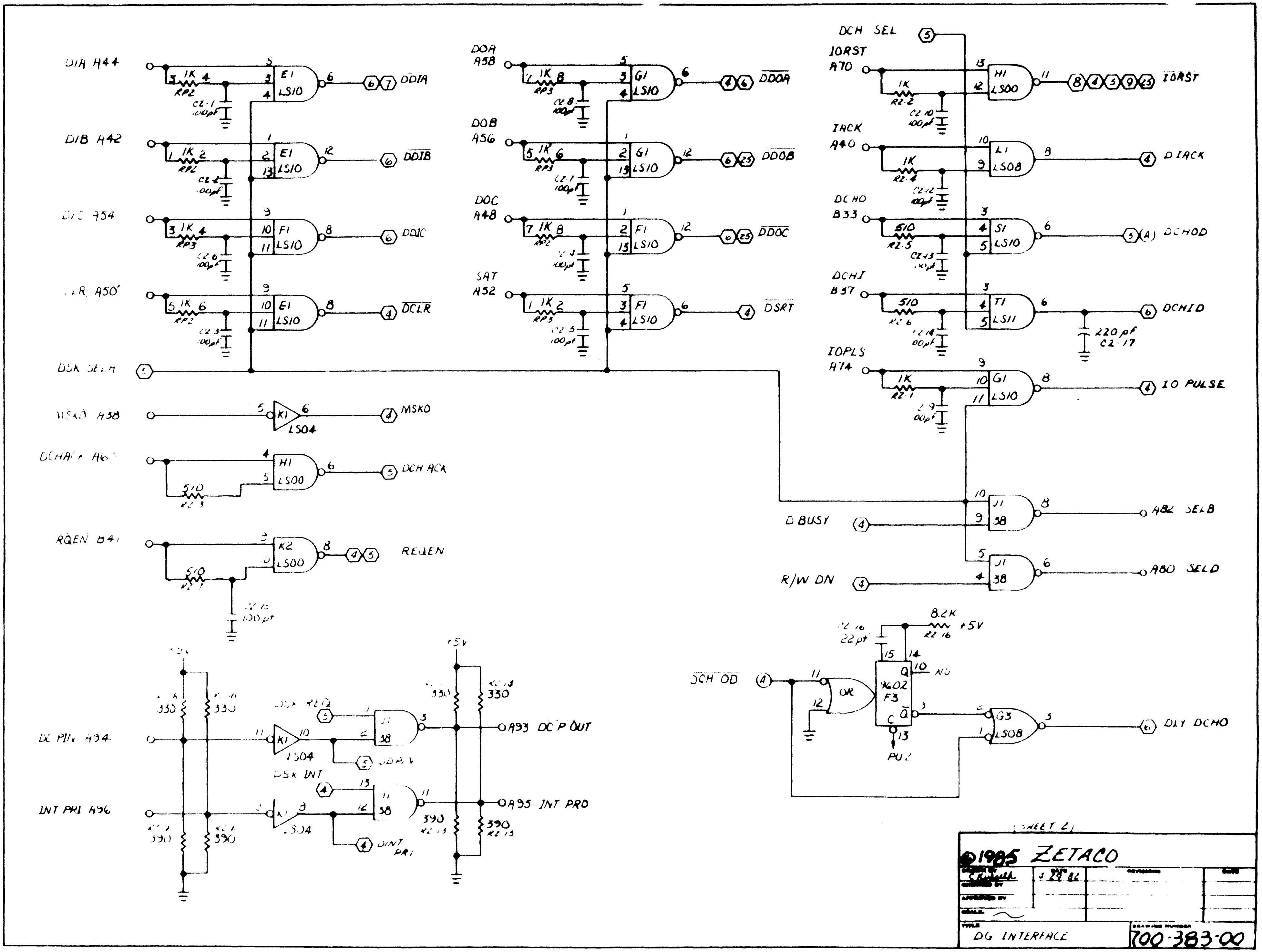
(SHEET 1 OF 25)

[redacted] ZETACO

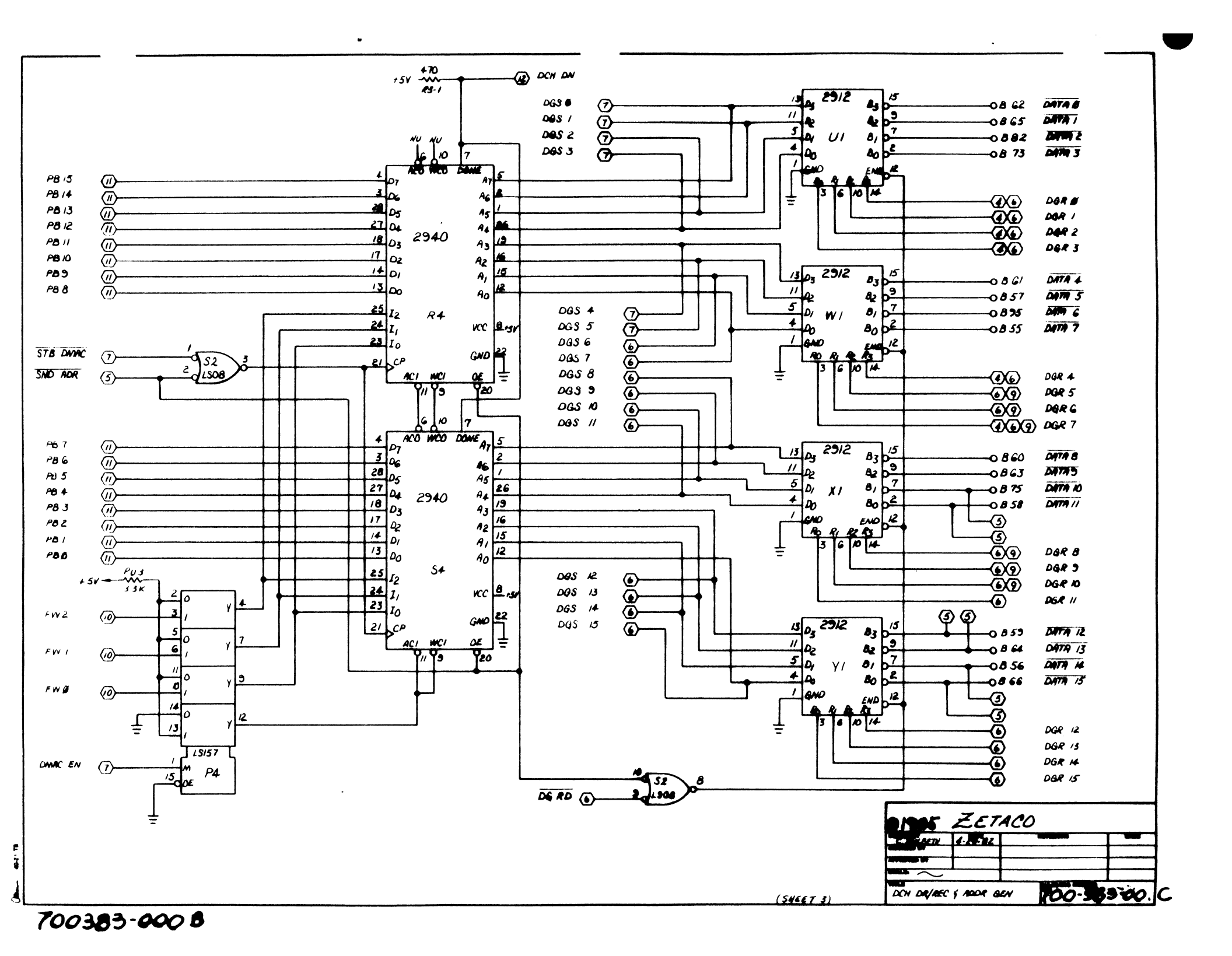
[redacted]	[redacted]		
			1

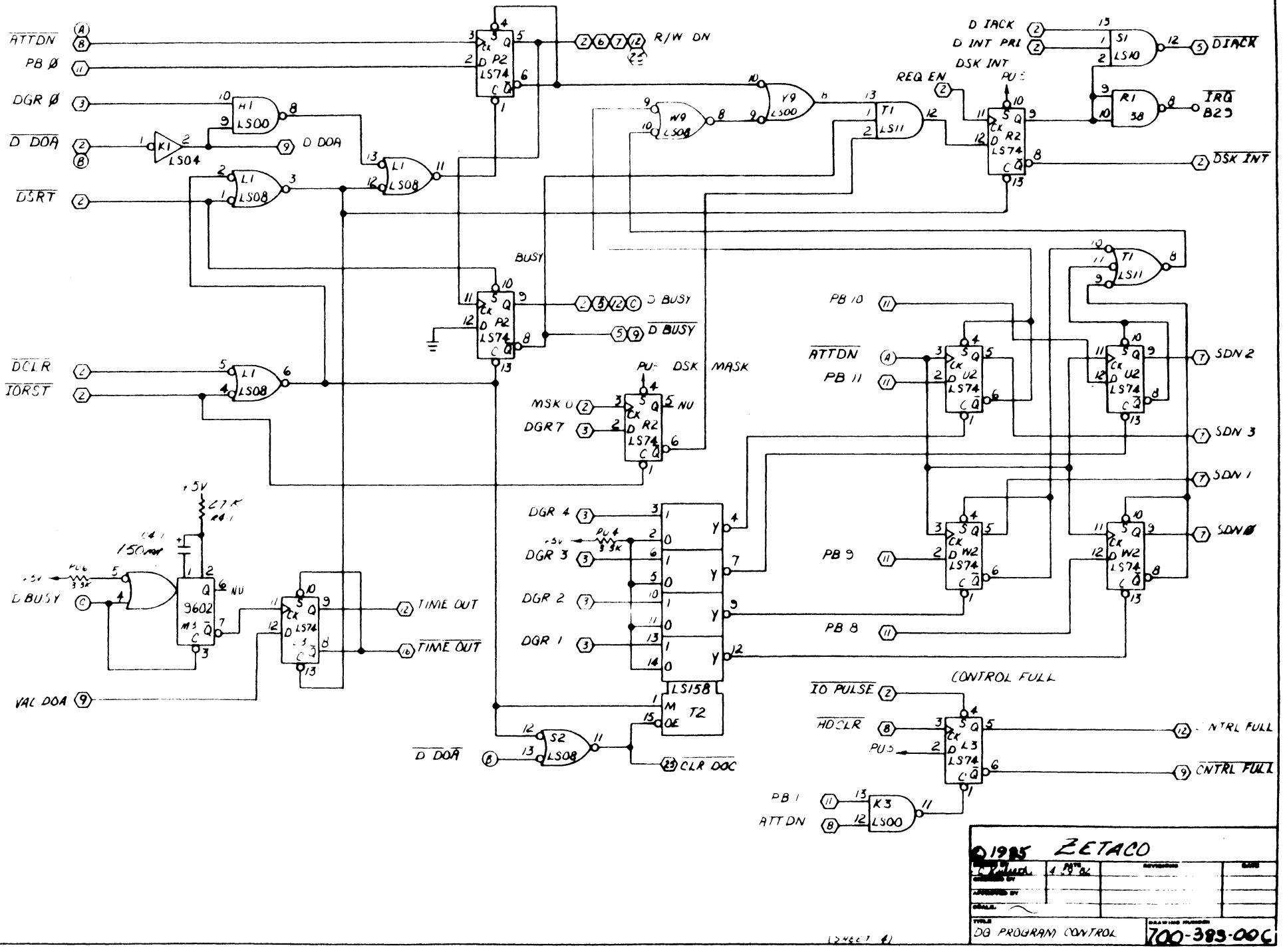
DC-295C [redacted]-00 C

700383-0008

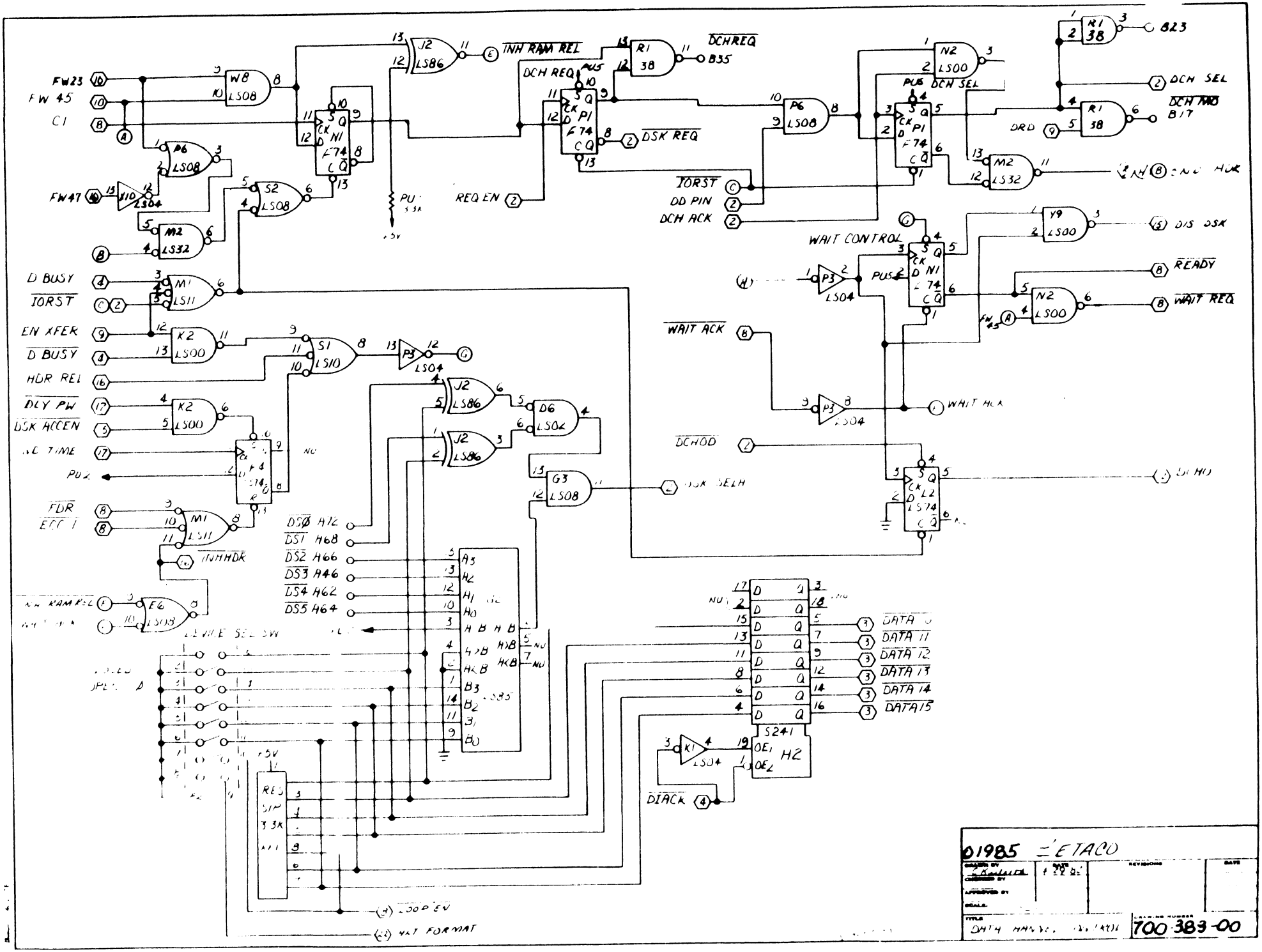

DIA A44
DDIA
DIB A42
DDIB
DDIC
DCLR
DSK SELH
MSKO A38
MSKO
DCH ACK
RQEN B41
REQEN
DOA A58
DDOA
DOB A56
DDOB
DOC A48
DDOC
SAT A52
DSRT
DCH SEL
IORST A70
IORST
IACK A40
DIACK
DCHO B33
DCHOD
DCHI B37
DCHID
IOPLS A74
IO PULSE
D BUSY
A82 SELB
R/W DN
A80 SELD
DCH OD
DLY DCHO
DC PIN A94
A93 DC P OUT
INT PRI A96
A95 INT PRO
DSK INT
DINT PRI
8.2K
+5V
9602 F3
PU2
LS10
LS00
LS08
LS11
LS04
38
©1985 ZETACO
(SHEET 2)
DG INTERFACE
700-383-00

700383-000 B

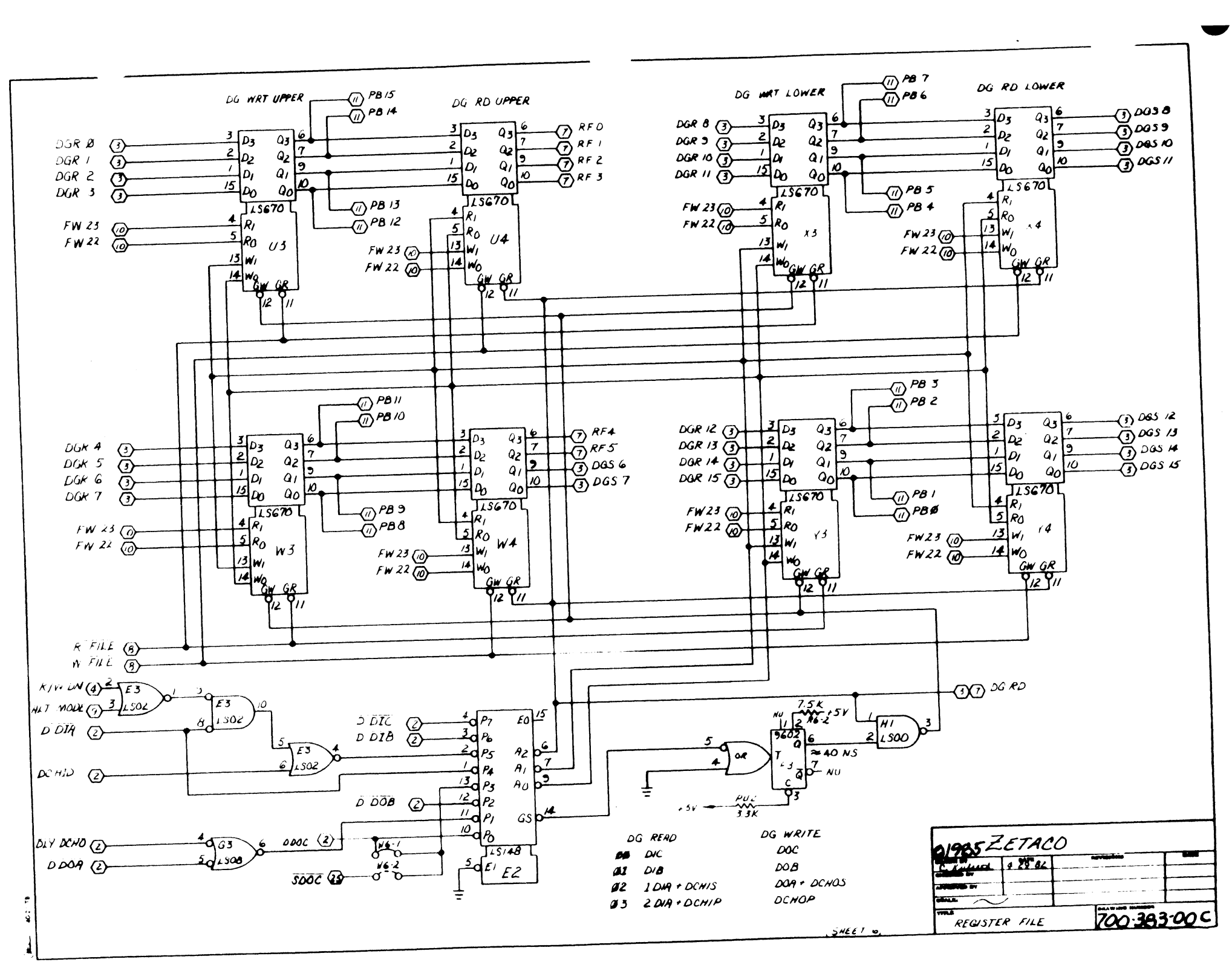

+5V
470
RS-1
DCH DN
NU
NU
ACO
WCO
DONE
2940
R4
ACI
WCI
OE
CP
VCC
GND
+5V
PB 15
PB 14
PB 13
PB 12
PB 11
PB 10
PB 9
PB 8
STB DMAC
SND ADR
S2
LS08
DGS 0
DGS 1
DGS 2
DGS 3
DGS 4
DGS 5
DGS 6
DGS 7
DGS 8
DGS 9
DGS 10
DGS 11
2912
U1
W1
X1
Y1
B G2
B G5
B B2
B 73
B G1
B 57
B 35
B 55
B G0
B G3
B 75
B 58
B 59
B G4
B 56
B 66
DATA 0
DATA 1
DATA 2
DATA 3
DATA 4
DATA 5
DATA 6
DATA 7
DATA 8
DATA 9
DATA 10
DATA 11
DATA 12
DATA 13
DATA 14
DATA 15
DQR 0
DQR 1
DQR 2
DQR 3
DQR 4
DQR 5
DQR 6
DQR 7
DQR 8
DQR 9
DQR 10
DQR 11
DQR 12
DQR 13
DQR 14
DQR 15
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB 0
PU3
3.3K
FW 2
FW 1
FW 0
LS157
P4
DMAC EN
DG RD
S2
LS08
(SHEET 3)
ZETACO
DCH DR/REC & ADDR GEN
700383-000 C
700383-000 B


ATTDN
PB Ø
DGR Ø
D DOA
DSRT
DCLR
IORST
R/W DN
D BUSY
BUSY
D IACK
D INT PRI
DSK INT
REQ EN
DIACK
IRQ B2
DSK INT
PB 10
PB 11
PB 9
PB 8
SDN 2
SDN 3
SDN 1
SDN Ø
MSK Ø
DGR 7
DSK MASK
DGR 4
DGR 3
DGR 2
DGR 1
TIME OUT
VAL DOA
CLR DOC
IO PULSE
HDCLR
CONTROL FULL
CNTRL FULL
PB 1
ATTDN
© 1985 ZETACO
DG PROGRAM CONTROL
700-383-00C

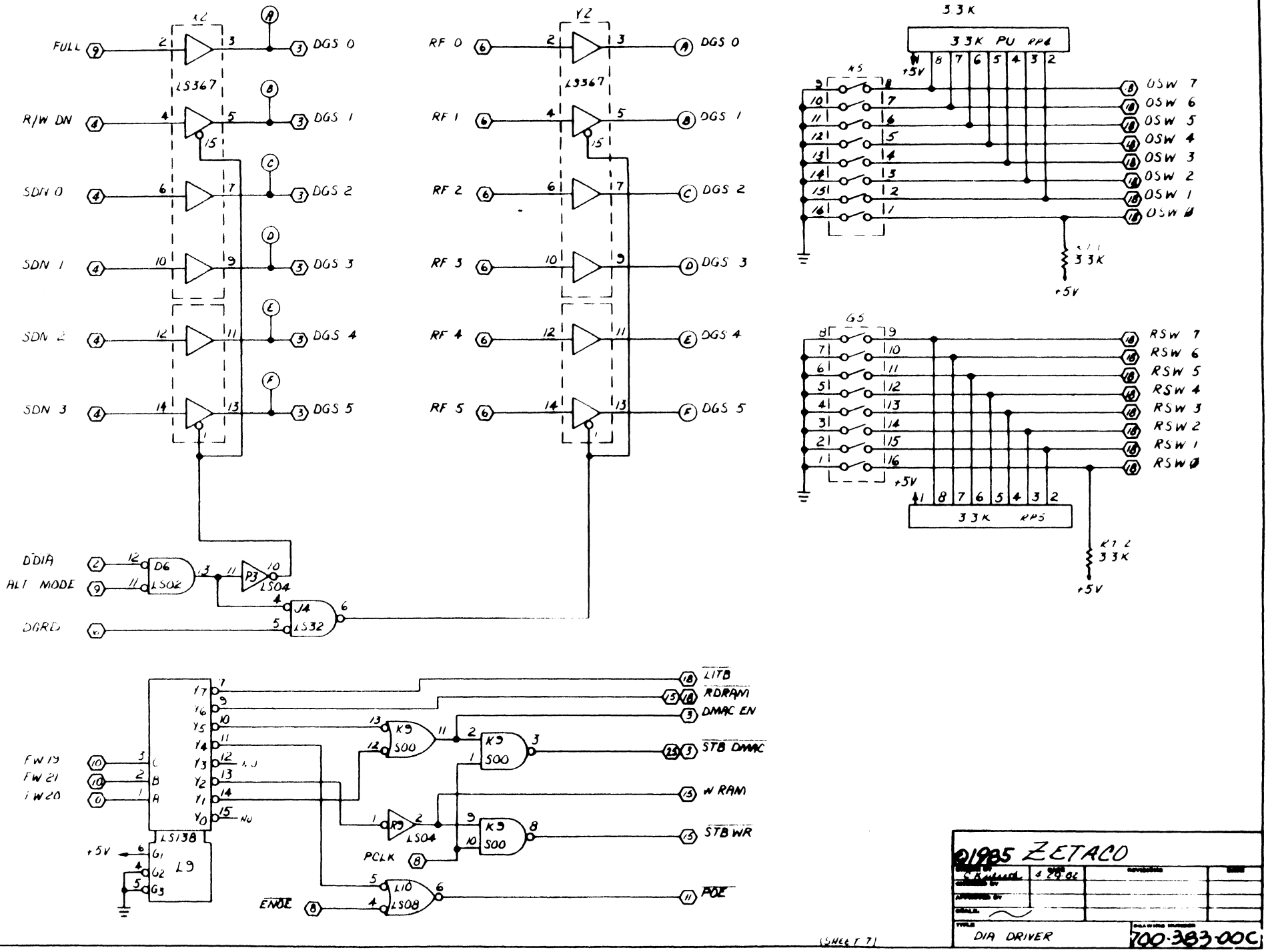
700383-00B


FW23
FW 45
C1
FW47
D BUSY
IORST
EN XFER
D BUSY
HDR REL
DLY PW
DSK ACCEN
PUL
FDR
ECC 1
INHHDR
DSØ H12
DS1 H68
DS2 H66
DS3 H46
DS4 H62
DS5 H64
INH RAM REL
DCH REQ
DSK REQ
REQ EN
IORST
DD PIN
DCH ACK
DCHREQ
B35
B23
DCH SEL
DCH MOD B17
DRD
WAIT CONTROL
READY
WAIT REQ
WAIT ACK
DCHOD
DISK SELH
DIACK
DATA 10
DATA 11
DATA 12
DATA 13
DATA 14
DATA15
S241
HZ
RES SIP 33K
LOOP EN
WAIT FORMAT
©1985 ETACO
DATA HANDLER
700-383-00

700383-000B


DG WRT UPPER
DG RD UPPER
DG WRT LOWER
DG RD LOWER
LS670
U3
U4
X3
X4
W3
W4
Y3
Y4
E2
R FILE
W FILE
DG RD
DG READ
DG WRITE
DOC
DOB
DOA + DCNOS
DCNOP
1 DIA + DCNIS
2 DIA + DCNIP
REGISTER FILE
700383-000C
©1985 ZETACO

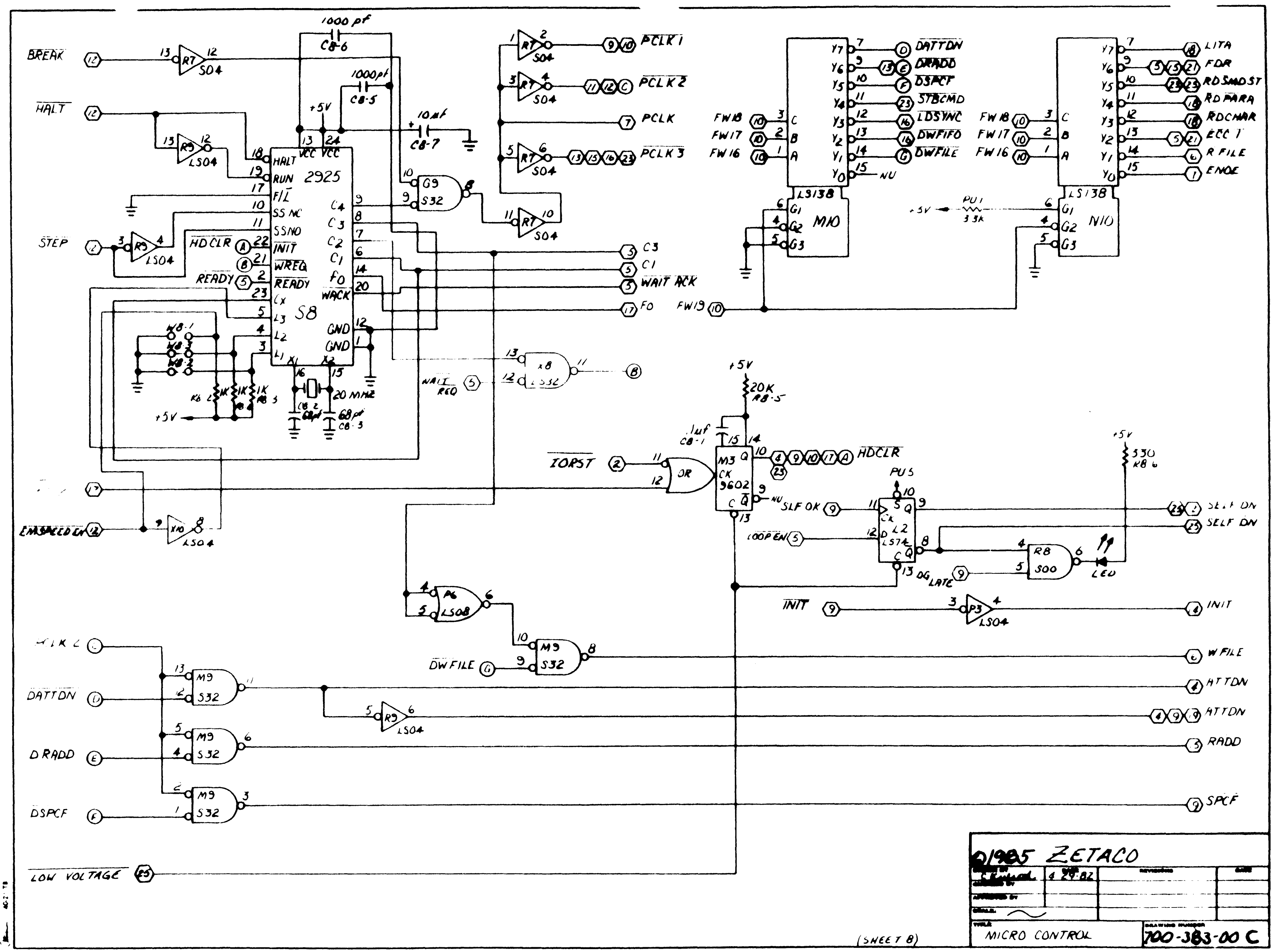
700383-000B



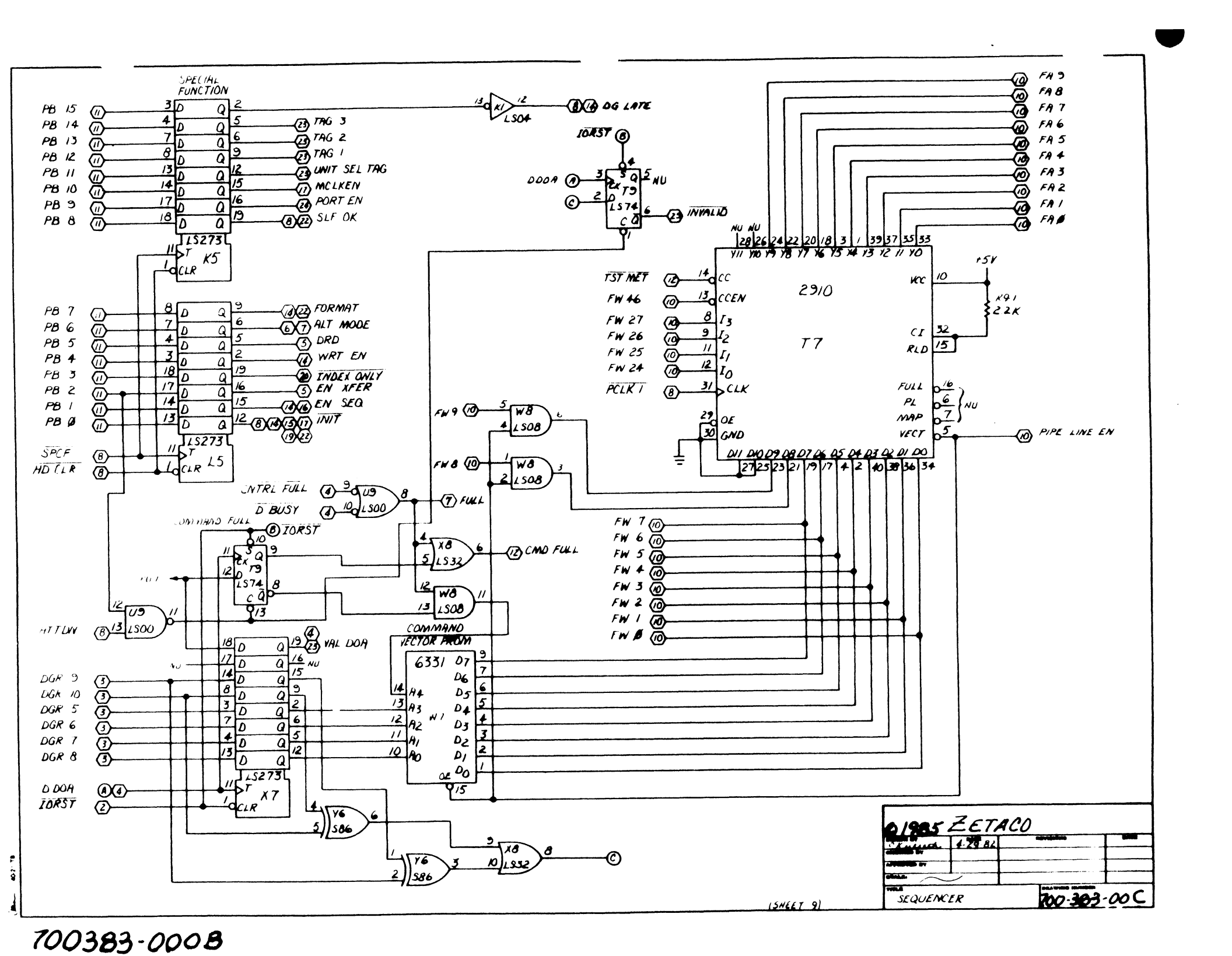
DRAWN	4 29 86	
DIA DRIVER		700-383-00C

(SHEET 7)

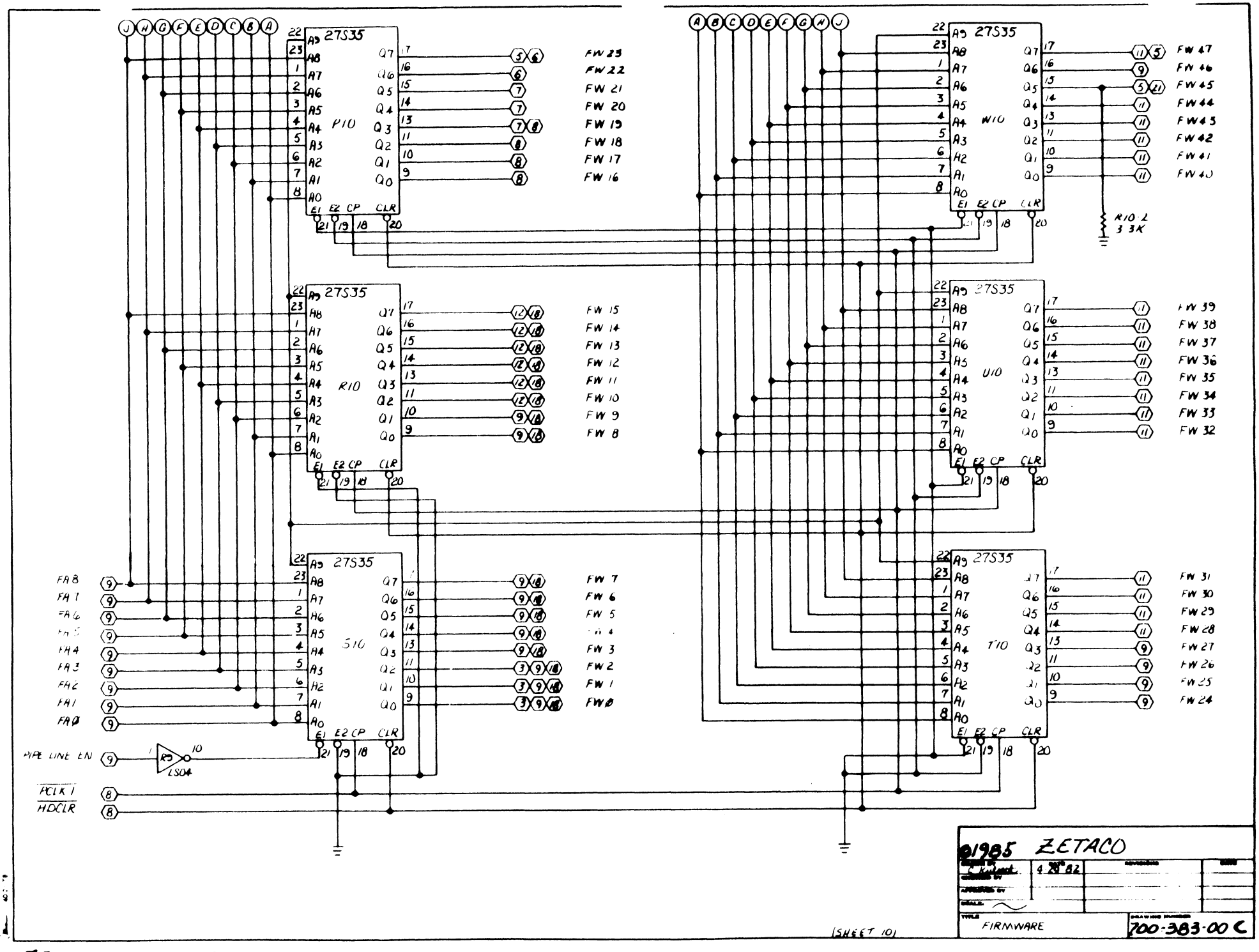
700383-000B


BREAK
HALT
STEP
READY
HDCLR
EMSPEED EN
2925
S8
HALT
RUN
F/I
SS NC
SSNO
INIT
WREQ
READY
CX
L3
L2
L1
C4
C3
C2
C1
F0
WACK
GND
20 MHZ
1000 pf
C8-6
C8-5
10 uf
C8-7
+5V
R7
S04
R9
LS04
G9
S32
PCLK 1
PCLK 2
PCLK
PCLK 3
C3
C1
WAIT ACK
F0
FW19
WAIT REQ
LS32
LS138
M10
N10
FW18
FW17
FW16
DATTDN
DRADD
DSPCF
STBCMD
LDSYNC
DWFIFO
DWFILE
NU
LITA
FDR
RDSMDST
RD PARA
RDCHAR
ECC T
R FILE
ENOE
PU1
3.3K
20K
R8-5
.1uf
C8-1
IORST
OR
M3
9602
HDCLR
PU5
SLF OK
LOOPEN
L2
LS74
DG LATE
R8
S00
LED
330
R8-6
SELF DN
INIT
P3
P6
LS08
M9
S32
DWFILE
W FILE
DATTDN
DRADD
DSPCF
ATTDN
RADD
SPCF
LOW VOLTAGE
(SHEET 8)
©1985 ZETACO
4-29-82
MICRO CONTROL
700-383-00 C

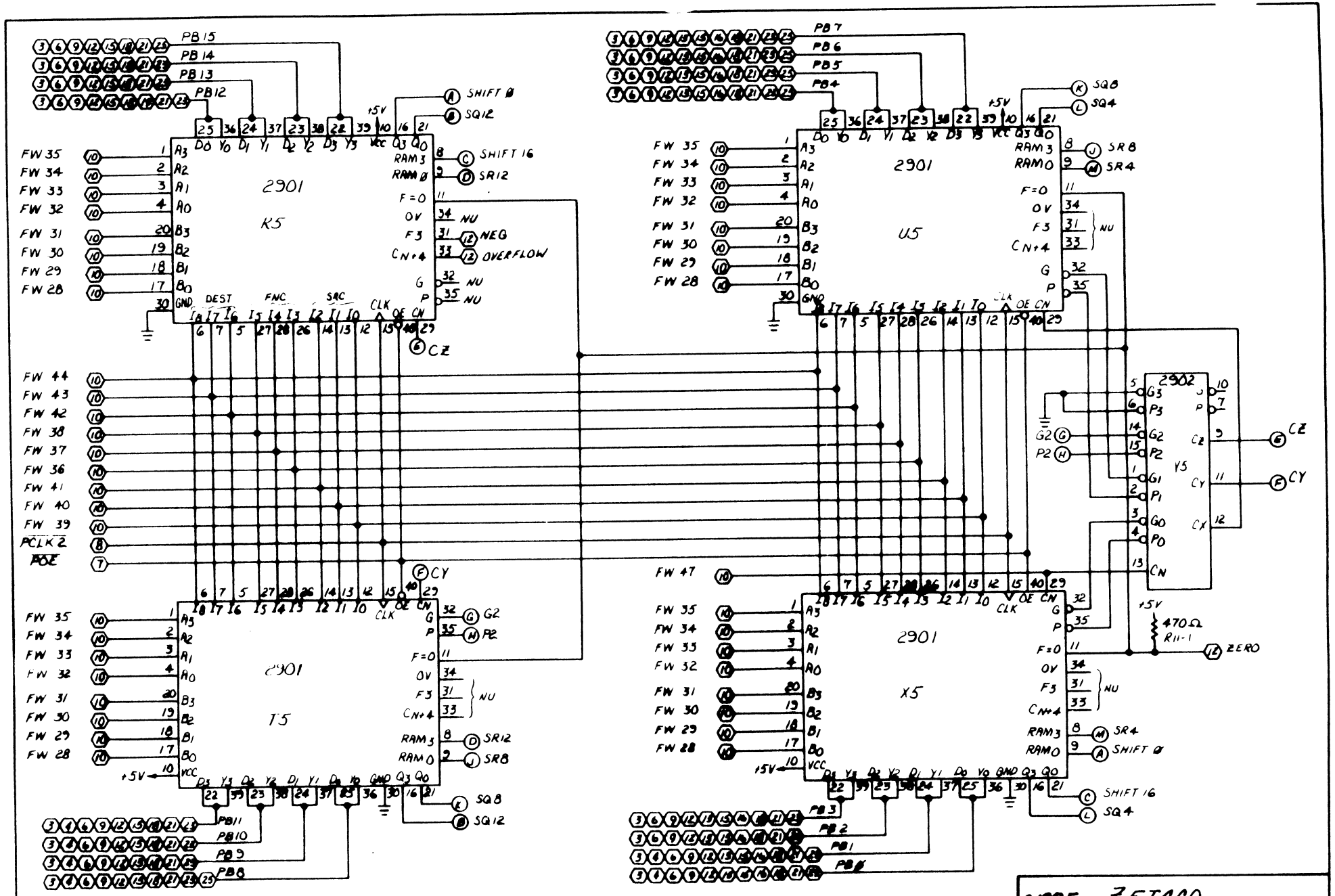
700383-000B

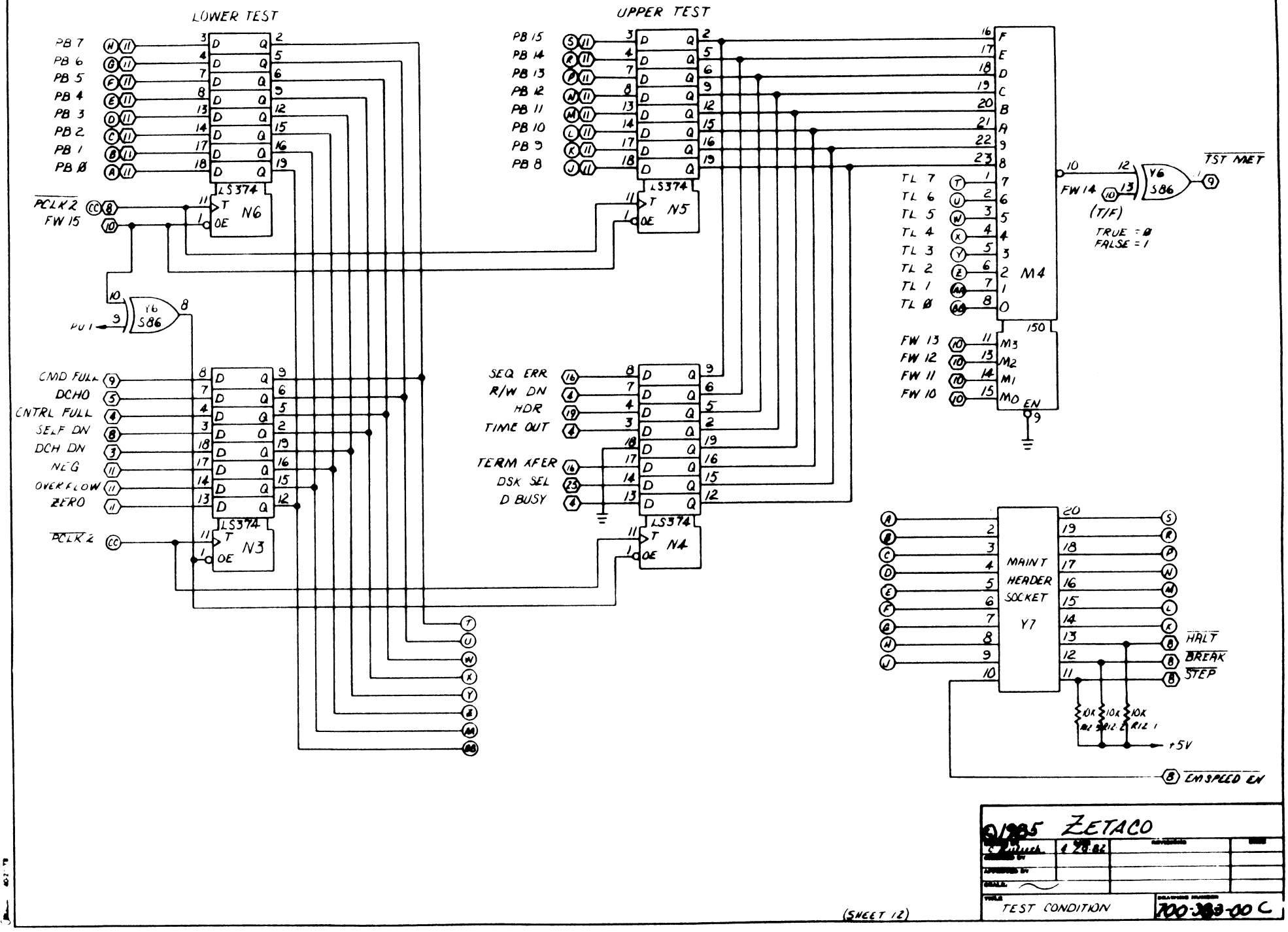

SPECIAL FUNCTION
PB 15
PB 14
PB 13
PB 12
PB 11
PB 10
PB 9
PB 8
LS273
K5
TAG 3
TAG 2
TAG 1
UNIT SEL TAG
MCLKEN
PORT EN
SLF OK
K1
LS04
OG LATE
IORST
DOOA
T9
LS74
INVALID
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB Ø
L5
FORMAT
ALT MODE
DRD
WRT EN
INDEX ONLY
EN XFER
EN SEQ
INIT
SPCF
HD CLR
2910
T7
RST MET
FW 46
FW 27
FW 26
FW 25
FW 24
PCLK 1
CC
CCEN
CLK
OE
GND
VCC
CI
RLD
FULL
PL
MAP
VECT
NU
PIPE LINE EN
FA 9
FA 8
FA 7
FA 6
FA 5
FA 4
FA 3
FA 2
FA 1
FA Ø
FW 9
FW 8
W8
LS08
CNTRL FULL
D BUSY
U9
LS00
FULL
COMMAND FULL
CMD FULL
X8
LS32
FW 7
FW 6
FW 5
FW 4
FW 3
FW 2
FW 1
FW Ø
COMMAND VECTOR PROM
6331
W1
VAL DOA
DGR 9
DGR 10
DGR 5
DGR 6
DGR 7
DGR 8
D DOA
X7
Y6
S86
©1985 ZETACO
SEQUENCER
700-383-00C
(SHEET 9)

700383-000B

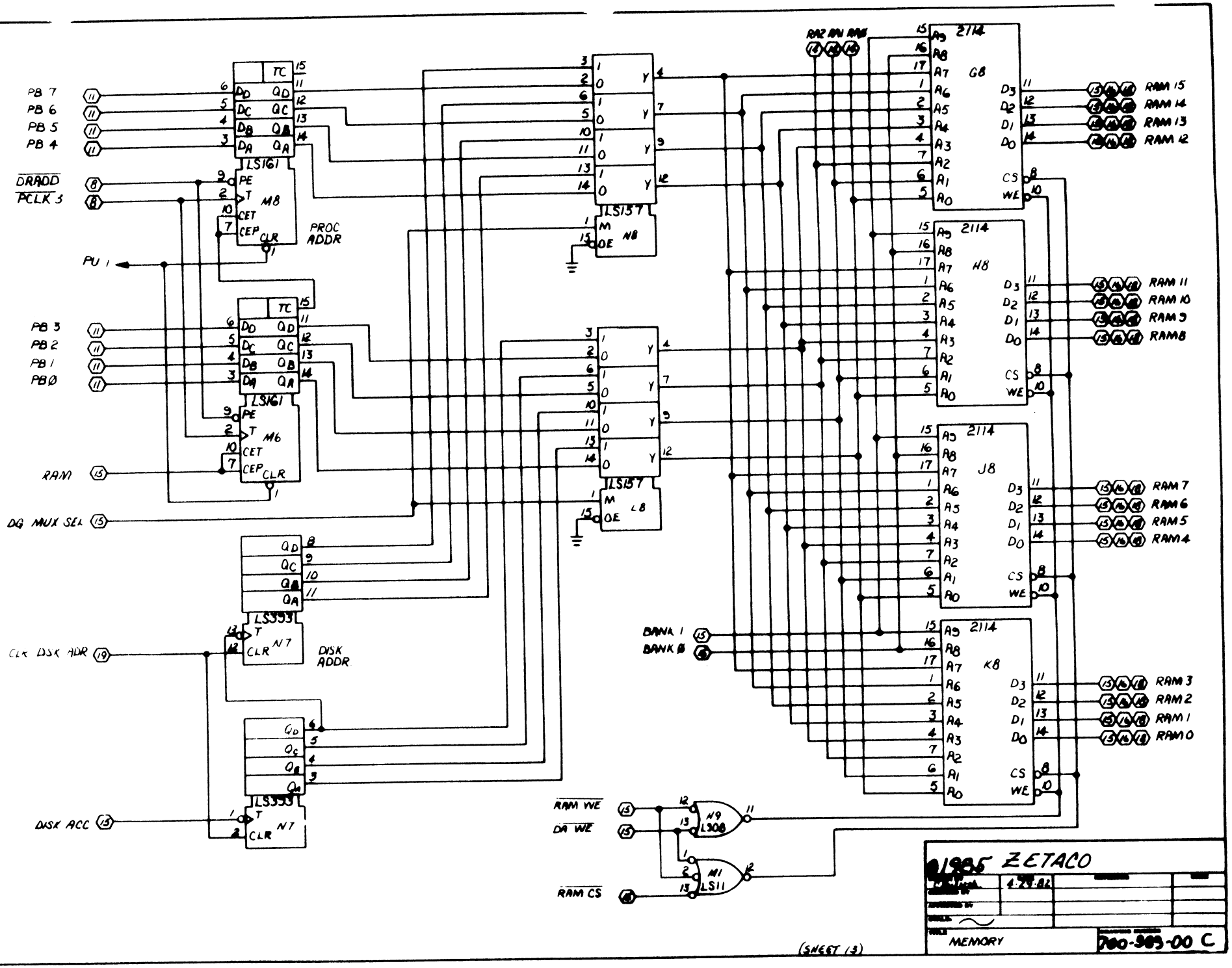

27S35
P10
R10
S10
U10
W10
T10
FW 23
FW 22
FW 21
FW 20
FW 19
FW 18
FW 17
FW 16
FW 15
FW 14
FW 13
FW 12
FW 11
FW 10
FW 9
FW 8
FW 7
FW 6
FW 5
FW 4
FW 3
FW 2
FW 1
FW 0
FW 47
FW 46
FW 45
FW 44
FW 43
FW 42
FW 41
FW 40
FW 39
FW 38
FW 37
FW 36
FW 35
FW 34
FW 33
FW 32
FW 31
FW 30
FW 29
FW 28
FW 27
FW 26
FW 25
FW 24
R10 L
3.3K
FA8
FA7
FA6
FA5
FA4
FA3
FA2
FA1
FA0
PIPE LINE EN
LS04
PCLK /
HDCLR
©1985 ZETACO
FIRMWARE
700-383-00 C
(SHEET 10)

700383-0008

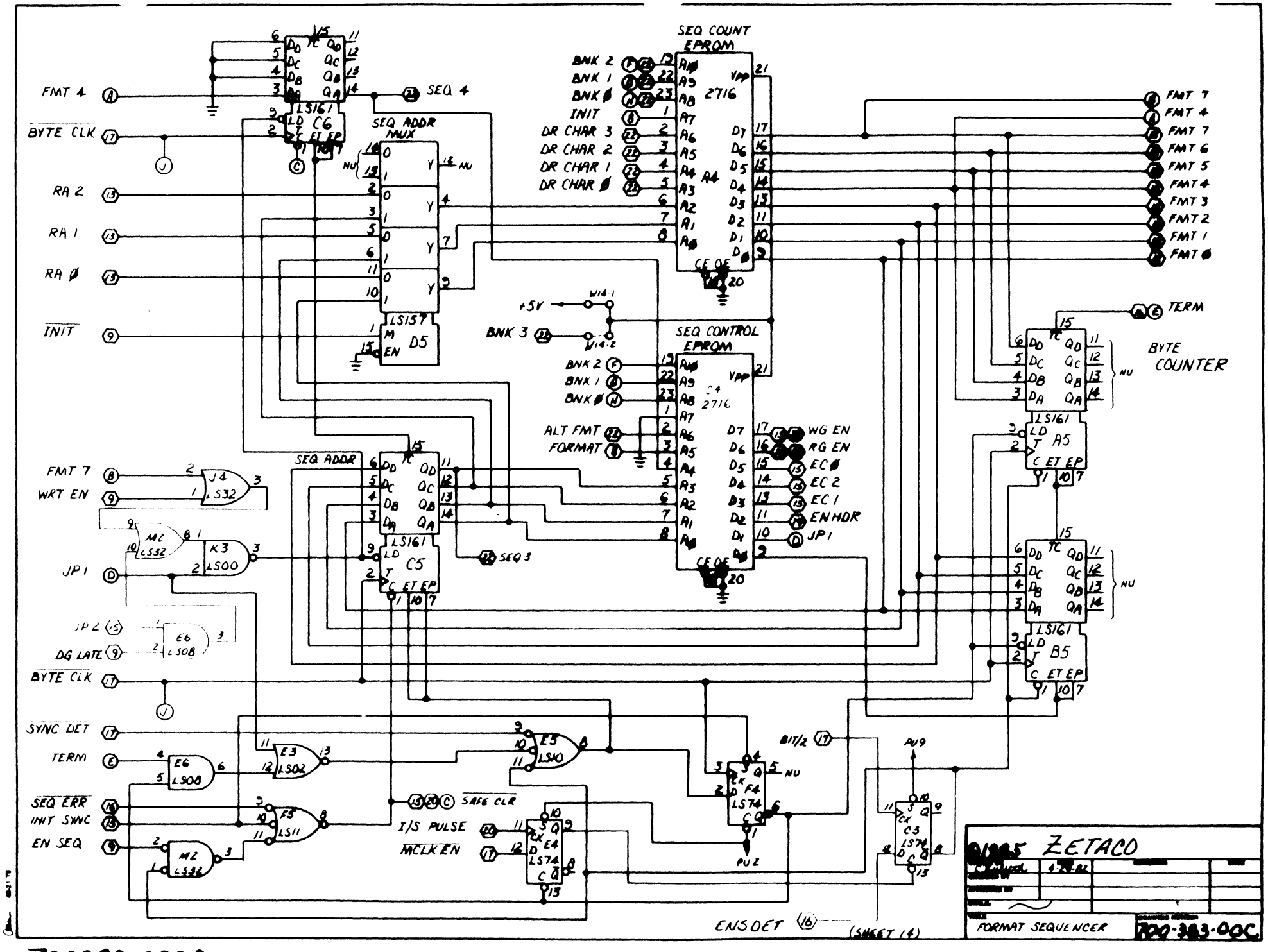

PB 15
PB 14
PB 13
PB 12
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB 0
PB 11
PB 10
PB 9
PB 8
SHIFT Ø
SQ 12
SHIFT 16
SR 12
NEG
OVERFLOW
SQ 8
SQ 4
SR 8
SR 4
CZ
CY
ZERO
2901
K5
U5
T5
X5
Y5
2902
470Ω
R11-1
+5V
CLK
OE
CN
DEST
FNC
SRC
NU
(SHEET 11)
PROCESSOR
700-303-00C
700303-000B


LOWER TEST
UPPER TEST
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB Ø
PB 15
PB 14
PB 13
PB 12
PB 11
PB 10
PB 9
PB 8
LS374
N6
N5
N4
N3
PCLK2
FW 15
Y6
S86
PU 1
CMD FULL
DCHO
CNTRL FULL
SELF DN
DCH DN
NEG
OVERFLOW
ZERO
SEQ ERR
R/W DN
HDR
TIME OUT
TERM XFER
DSK SEL
D BUSY
TL 7
TL 6
TL 5
TL 4
TL 3
TL 2
TL 1
TL Ø
M4
150
FW 13
FW 12
FW 11
FW 10
M3
M2
M1
MO
EN
FW 14
(T/F)
TRUE = Ø
FALSE = 1
TST MET
MAINT
HEADER
SOCKET
Y7
HALT
BREAK
STEP
10K
+5V
EMSPEED EN
ZETACO
TEST CONDITION
700-383-00 C
(SHEET 12)

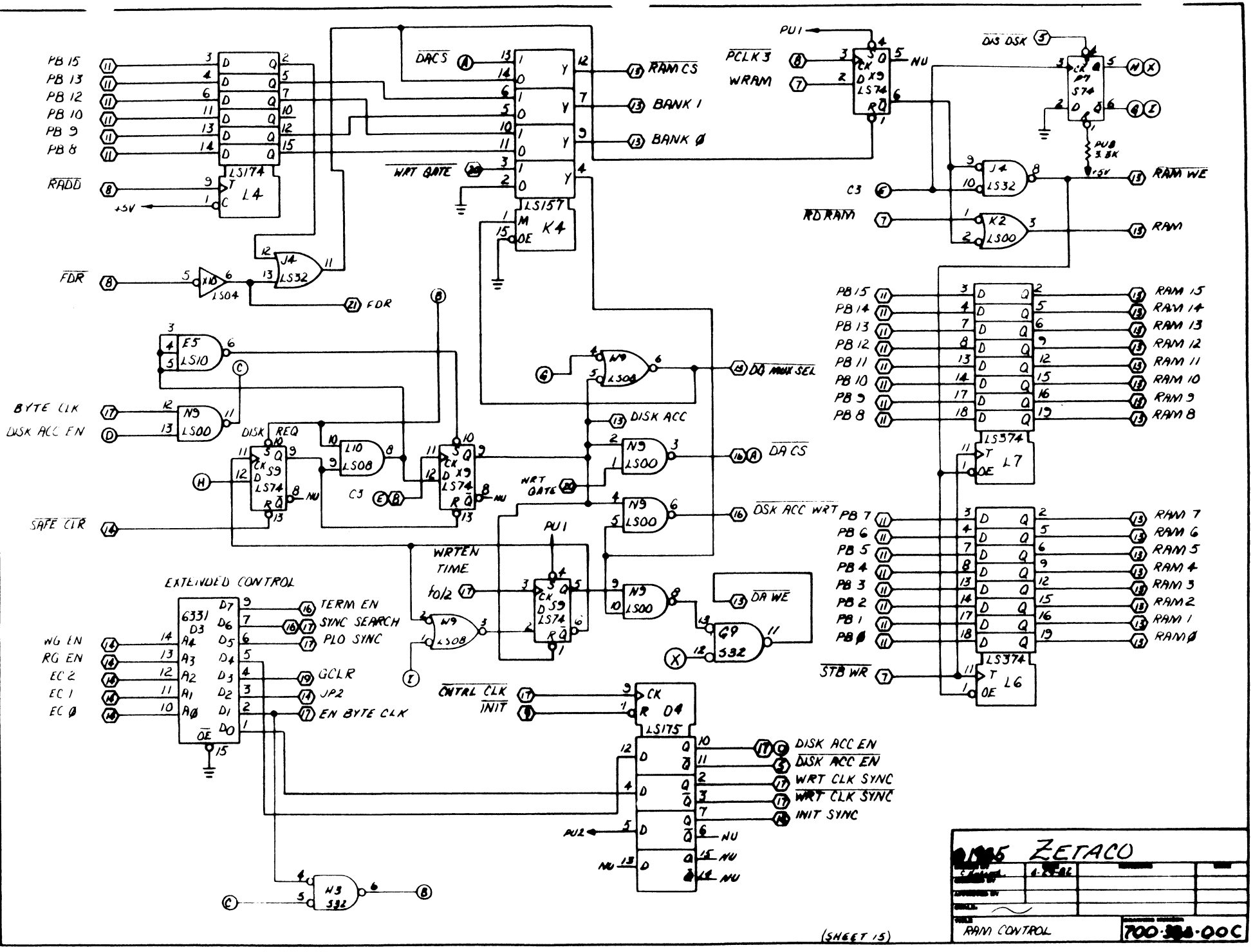
700383-000 B


PB 7
PB 6
PB 5
PB 4
DRADD
PCLK 3
LS161
M8
PROC ADDR
PU 1
PB 3
PB 2
PB 1
PB0
M6
RAM
DG MUX SEL
LS157
M8
L8
LS373
N7
CLK DSK ADDR
DSK ADDR
DSK ACC
RAM WE
DA WE
RAM CS
N9
LS08
M1
LS11
RA2 RA1 RA0
2114
G8
H8
J8
K8
BANK 1
BANK 0
RAM 15
RAM 14
RAM 13
RAM 12
RAM 11
RAM 10
RAM 9
RAM 8
RAM 7
RAM 6
RAM 5
RAM 4
RAM 3
RAM 2
RAM 1
RAM 0
(SHEET 13)
1985 ZETACO
4.29.82
MEMORY
700-983-00 C

700383-0008


FMT 4
BYTE CLK
RA 2
RA 1
RA Ø
INIT
SEQ 4
SEQ ADDR MUX
LS161 LD C6 T C ET EP
LS157 M EN D5
SEQ COUNT EPROM
2716 A4
BNK 2
BNK 1
BNK Ø
INIT
DR CHAR 3
DR CHAR 2
DR CHAR 1
DR CHAR Ø
D7 D6 D5 D4 D3 D2 D1 D
FMT 7
FMT 4
FMT 7
FMT 6
FMT 5
FMT 4
FMT 3
FMT 2
FMT 1
FMT Ø
+5V
W14-1
W14-2
BNK 3
SEQ CONTROL EPROM
2716 C4
ALT FMT
FORMAT
WG EN
RG EN
EC Ø
EC 2
EC 1
ENHDR
JP1
TERM
BYTE COUNTER
LS161 LD T A5 C ET EP
LS161 LD T B5 C ET EP
NU
SEQ ADDR
LS161 LD T C5 C ET EP
SEQ 3
FMT 7
WRT EN
J4 LS32
M2 LS32
K3 LS00
JP1
JP2
DG LATE
E6 LS08
BYTE CLK
SYNC DET
TERM
SEQ ERR
INT SYNC
EN SEQ
E3 LS02
E3 LS10
F3 LS11
M2 LS32
SAFE CLR
I/S PULSE
MCLK EN
E4 LS74
F4 LS74
C3 LS74
BIT/2
PU9
PU2
ENSDET
(SHEET 16)
ZETACO
FORMAT SEQUENCER
700383-000C

700383-000B



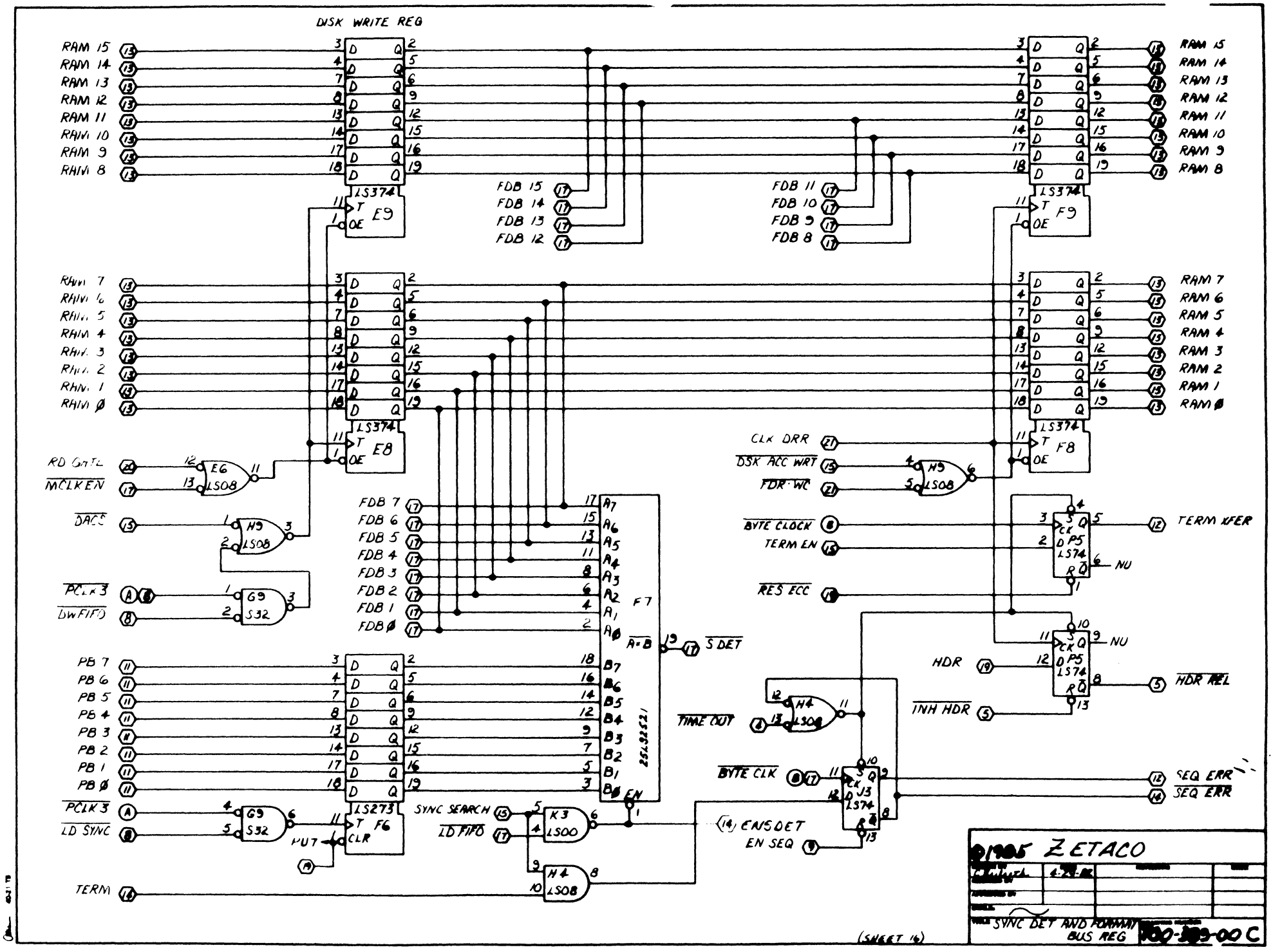
ZETACO

RAM CONTROL

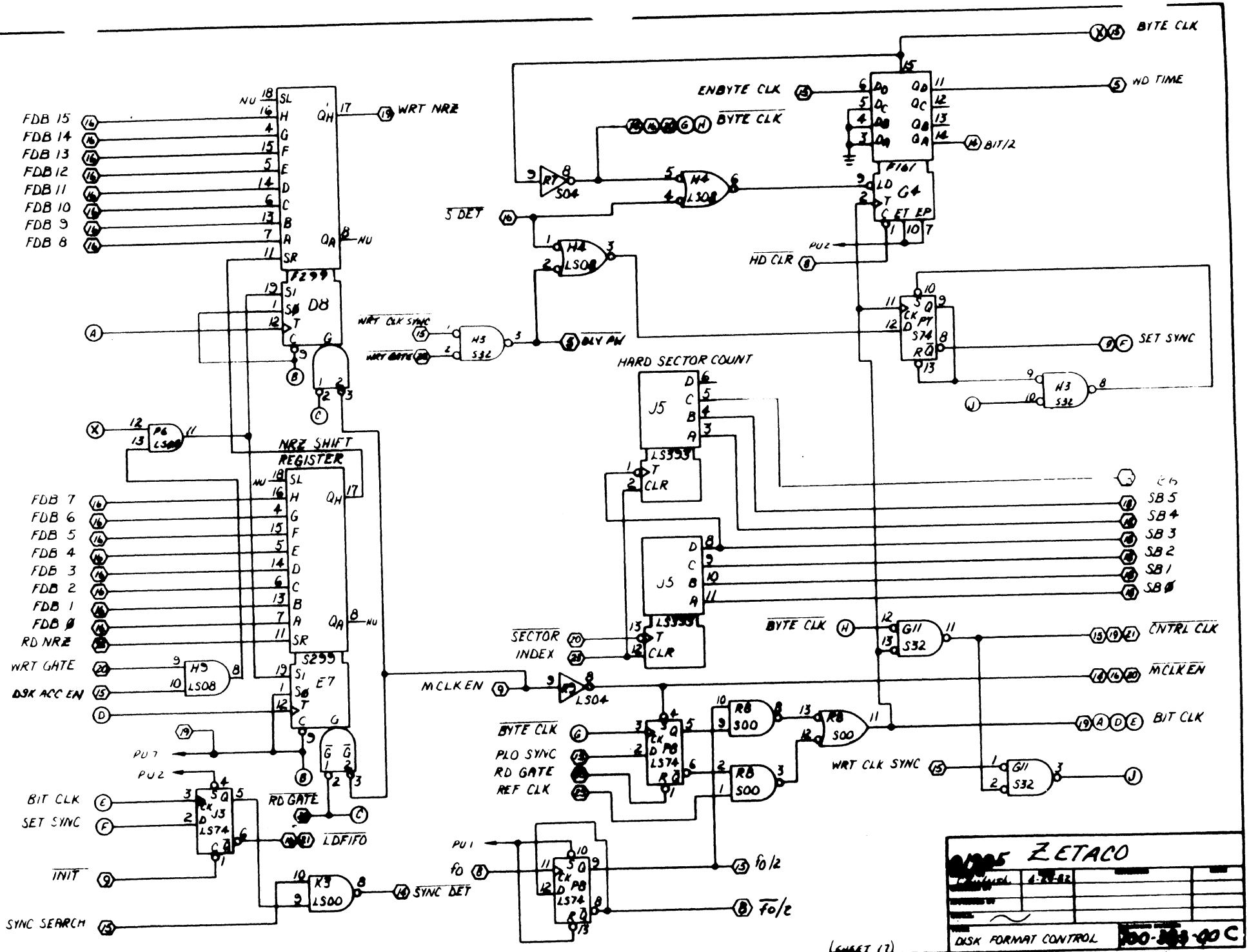
700383-000C

(SHEET 15)

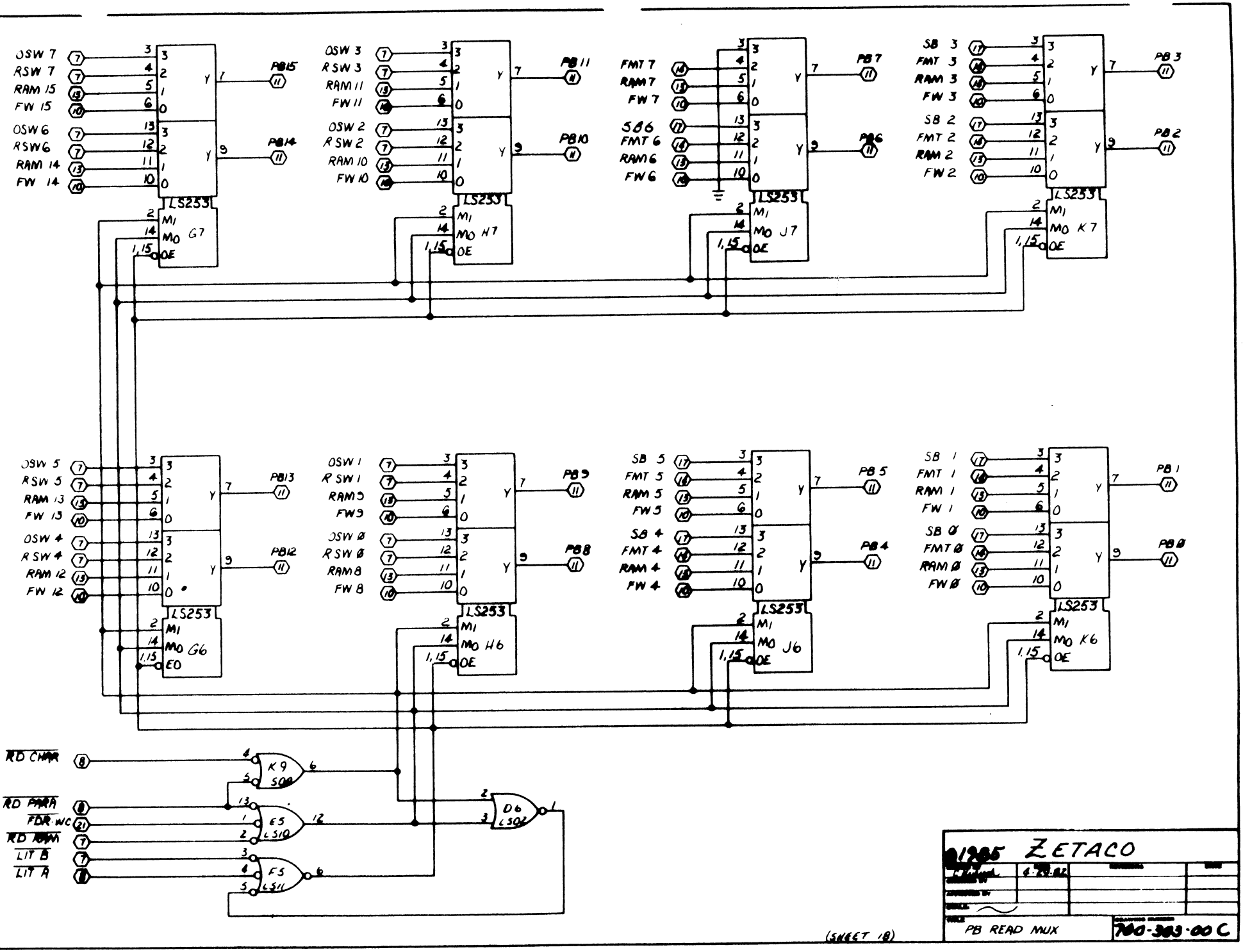
700383-000B


DISK WRITE REG
RAM 15
RAM 14
RAM 13
RAM 12
RAM 11
RAM 10
RAM 9
RAM 8
FDB 15
FDB 14
FDB 13
FDB 12
FDB 11
FDB 10
FDB 9
FDB 8
LS374
E9
F9
RAM 7
RAM 6
RAM 5
RAM 4
RAM 3
RAM 2
RAM 1
RAM 0
E8
F8
RD GATE
MCLKEN
DACS
PCLK 3
DWFIFO
E6
LS08
H9
G9
S32
FDB 7
FDB 6
FDB 5
FDB 4
FDB 3
FDB 2
FDB 1
FDB 0
F7
A=B
S DET
PB 7
PB 6
PB 5
PB 4
PB 3
PB 2
PB 1
PB 0
LS273
F6
PCLK 3
LD SYNC
PUT
TERM
SYNC SEARCH
LD FIFO
K3
LS00
H4
ENSDET
EN SEQ
CLK DRR
DSK ACC WRT
FDR-WC
BYTE CLOCK
TERM EN
RES ECC
TERM XFER
NU
HDR
INH HDR
HDR REL
TIME OUT
BYTE CLK
SEQ ERR
SEQ ERR
©1985 ZETACO
SYNC DET AND FORMAT BUS REG
700383-000C
(SHEET 16)

700383-000B


FDB 15
FDB 14
FDB 13
FDB 12
FDB 11
FDB 10
FDB 9
FDB 8
WRT NRZ
NRZ SHIFT REGISTER
FDB 7
FDB 6
FDB 5
FDB 4
FDB 3
FDB 2
FDB 1
FDB Ø
RD NRZ
WRT GATE
D9K ACC EN
BIT CLK
SET SYNC
INIT
SYNC SEARCH
SYNC DET
LDFIFO
RD GATE
MCLKEN
BYTE CLK
PLO SYNC
RD GATE
REF CLK
WRT CLK SYNC
SECTOR INDEX
HARD SECTOR COUNT
SB 5
SB 4
SB 3
SB 2
SB 1
SB Ø
CNTRL CLK
MCLKEN
BIT CLK
SET SYNC
HD CLR
WD TIME
BIT/2
ENBYTE CLK
S DET
WRT CLK SYNC
DLY AN
fo/2
fo/2
ZETACO
DISK FORMAT CONTROL

700383-0008

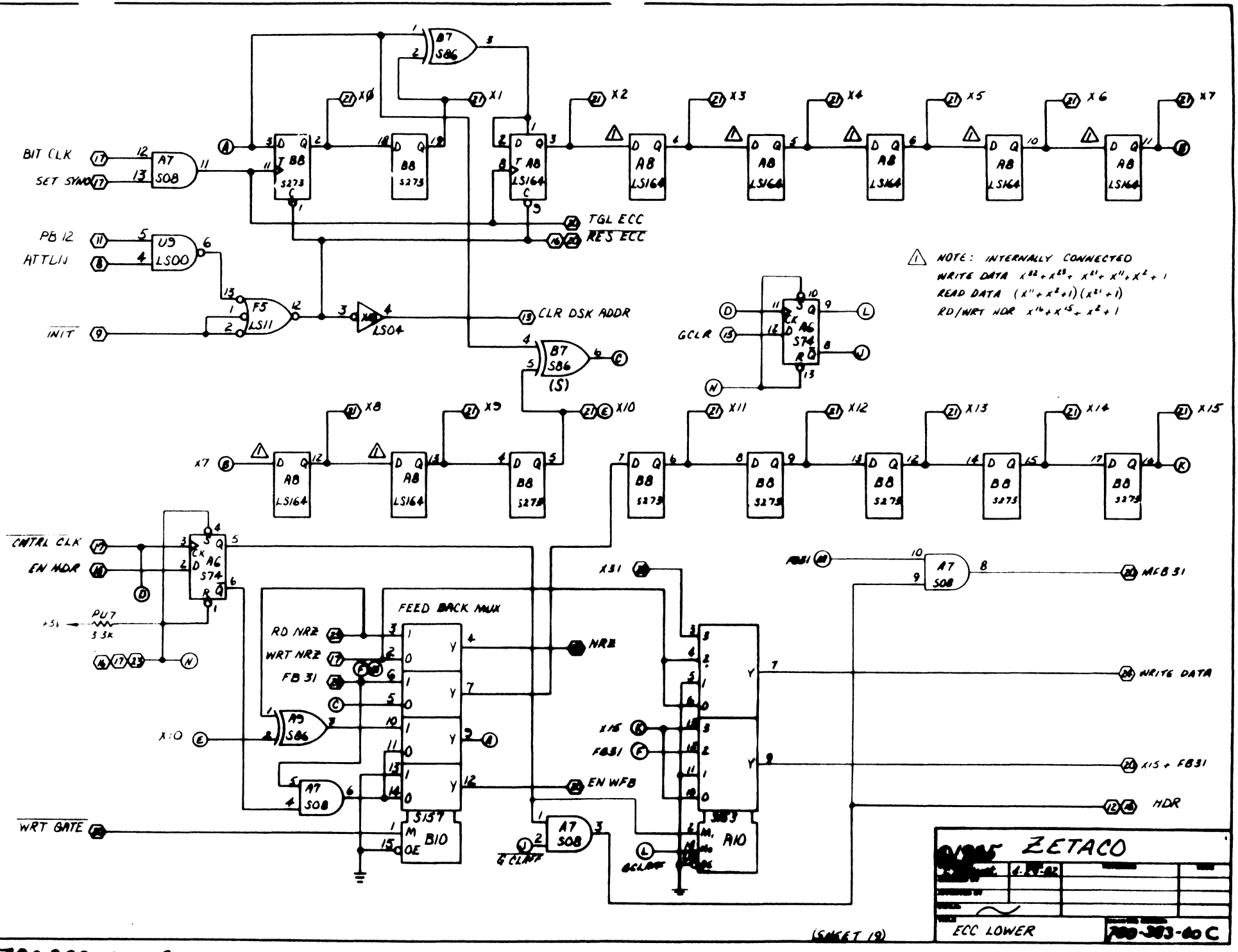


(SHEET 18)

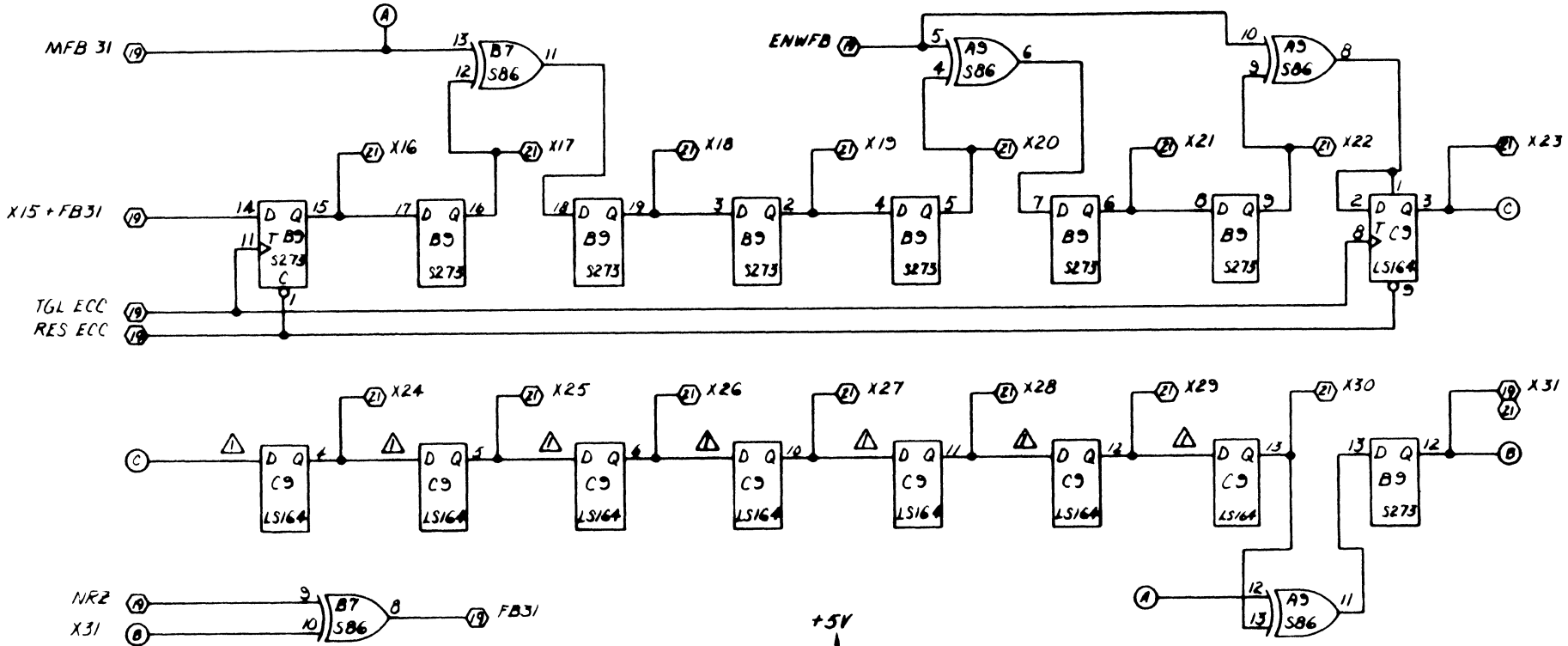
ZETACO

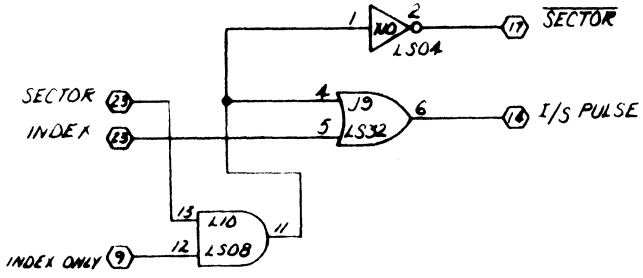
01205			
	6-29-82		
PB READ MUX			700-383-00 C

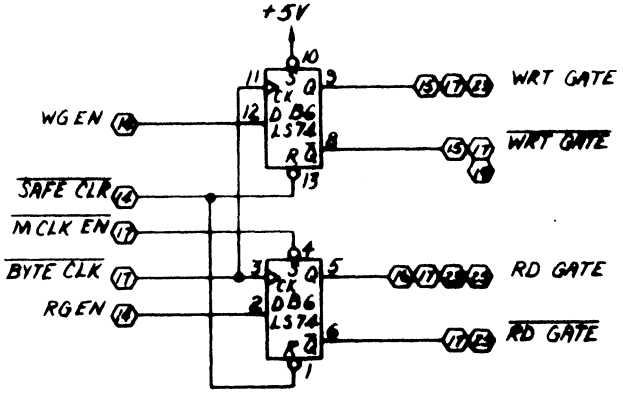
700383-000B


BIT CLK
SET SYNC
PB 12
ATTN
INIT
TGL ECC
RES ECC
CLR DSK ADDR
GCLR
NOTE: INTERNALLY CONNECTED
WRITE DATA $X^{32}+X^{23}+X^{21}+X^{11}+X^{2}+1$
READ DATA $(X^{11}+X^{2}+1)(X^{21}+1)$
RD/WRT HDR $X^{16}+X^{15}+X^{2}+1$
CNTRL CLK
EN HDR
+5V
PU7
3.3K
FEED BACK MUX
RD NRZ
WRT NRZ
FB 31
NRZ
EN WFB
WRT GATE
G CLK
MCB 31
WRITE DATA
X15 + FB31
HDR
ZETACO
ECC LOWER
700383-000C
(SHEET 19)

700383-000 B







⚠ NOTE: INTERNALLY CONNECTED

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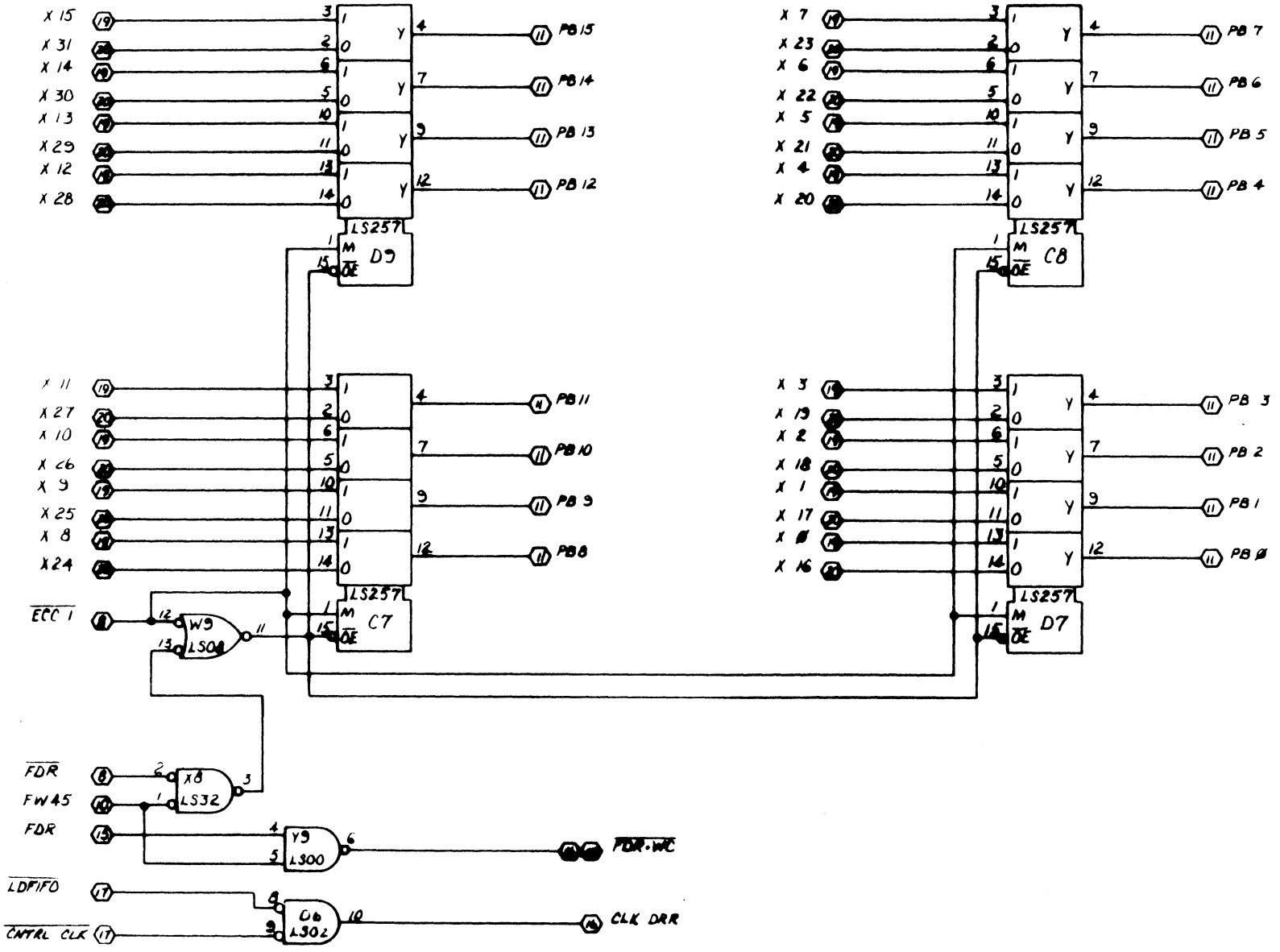
Original	4-28-82		
ECC UPPER			700-383-00 C

(SHEET 20)

700383-000 B



ZETACO

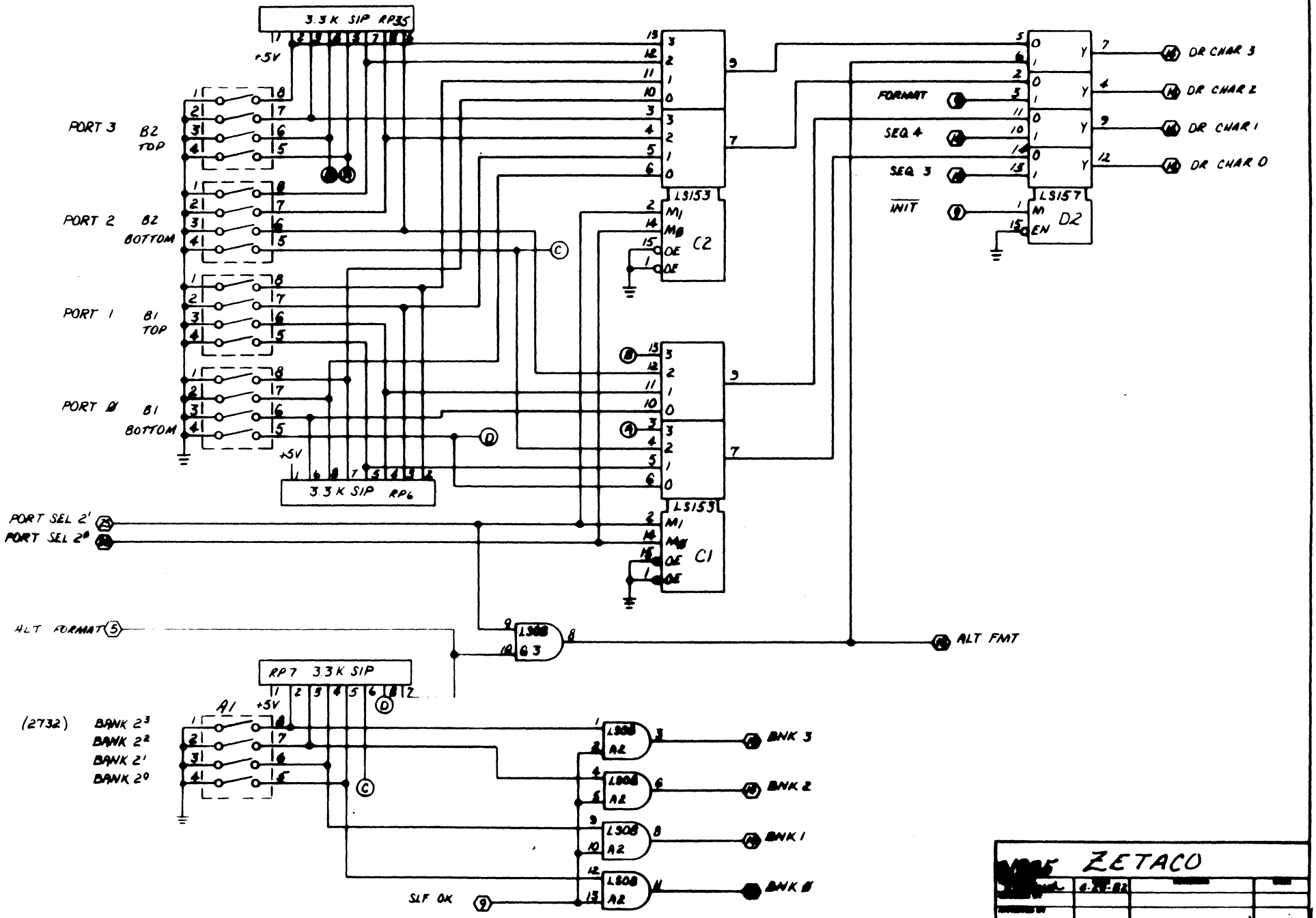
4-2-82

ECC OUT PUT SELECT

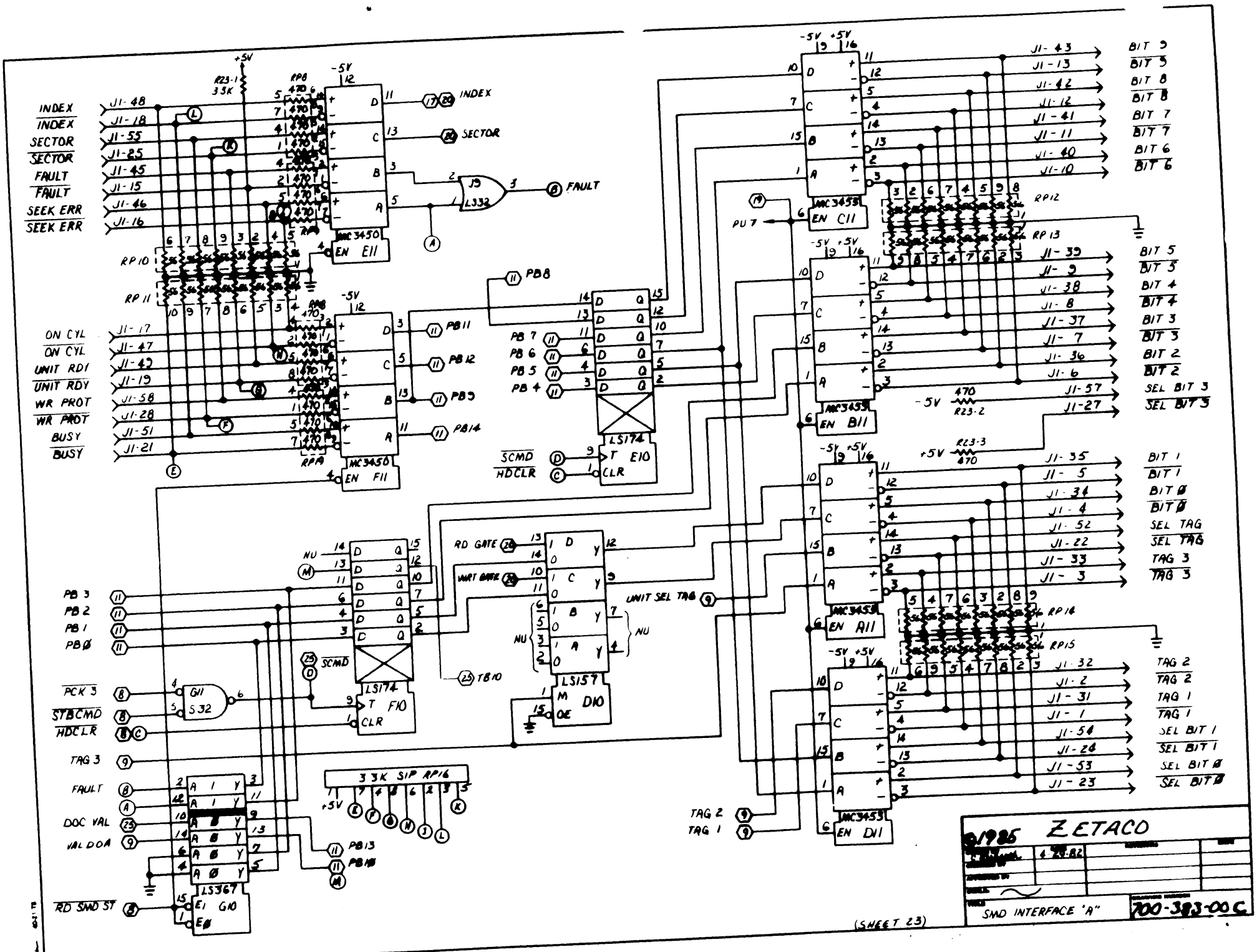
700383-000 C

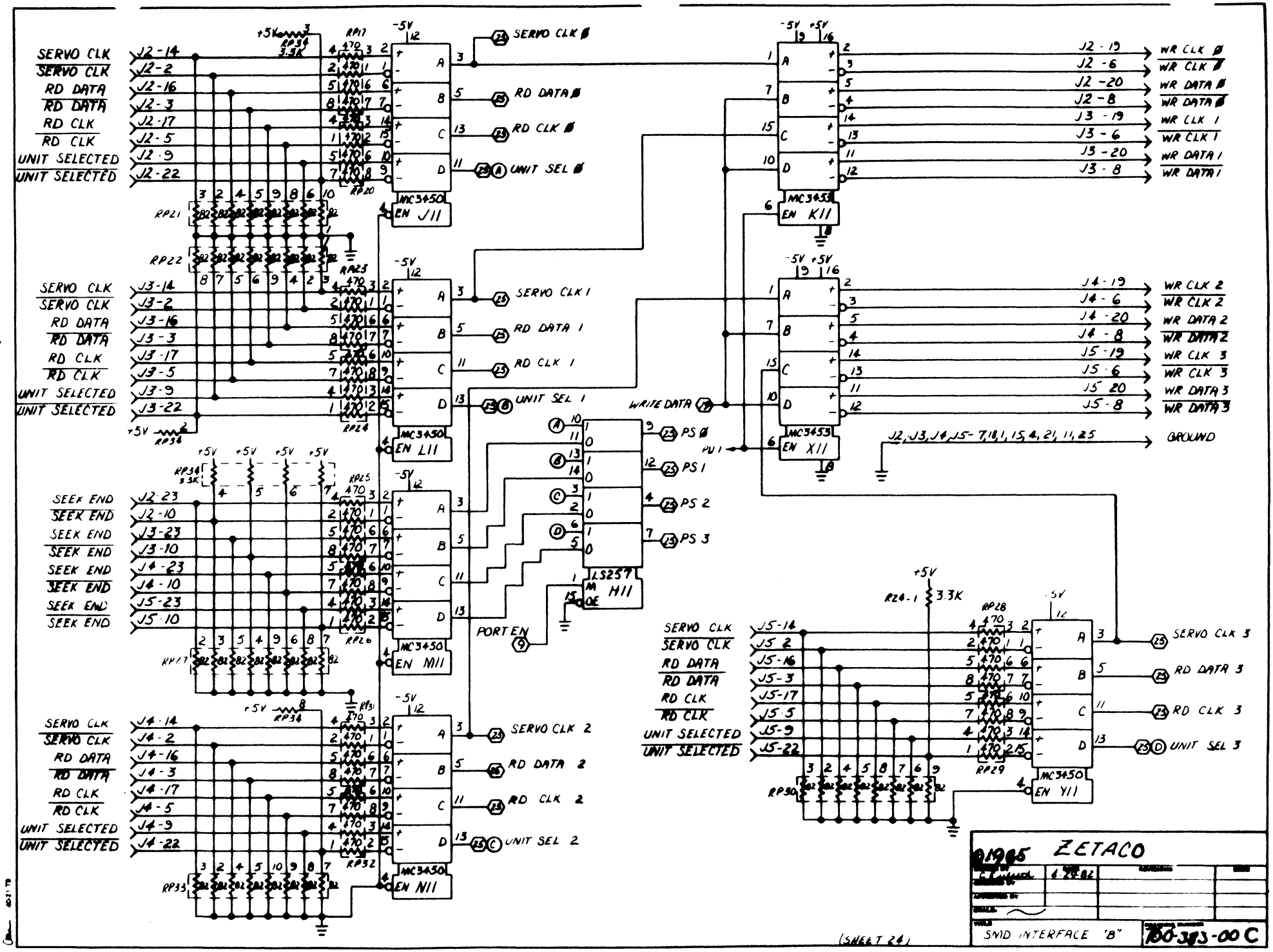
SHEET 21

700383-000 B


3.3K SIP RP35
+5V
PORT 3 B2 TOP
PORT 2 B2 BOTTOM
PORT 1 B1 TOP
PORT 0 B1 BOTTOM
3.3K SIP RP6
LS153 C2
LS153 C1
LS157 D2
FORMAT
SEQ 4
SEQ 3
INIT
DR CHAR 3
DR CHAR 2
DR CHAR 1
DR CHAR 0
PORT SEL 2'
PORT SEL 2⁰
ALT FORMAT
ALT FMT
RP7 3.3K SIP
A1
(2732)
BANK 2³
BANK 2²
BANK 2'
BANK 2⁰
SLF OK
BNK 3
BNK 2
BNK 1
BNK 0
ZETACO
FORMAT BANK SELECT
(SHEET 22)

700383-000 B


INDEX
INDEX
SECTOR
SECTOR
FAULT
FAULT
SEEK ERR
SEEK ERR
ON CYL
ON CYL
UNIT RDY
UNIT RDY
WR PROT
WR PROT
BUSY
BUSY
PB 3
PB 2
PB 1
PB Ø
PCK 3
STBCMD
HDCLR
TAG 3
FAULT
DOC VAL
VAL DOA
RD SMD ST
SCMD
HDCLR
RD GATE
UART GATE
TB10
UNIT SEL TAG
TAG 2
TAG 1
PU 7
MC3450
MC3453
LS174
LS157
LS367
LS32
33K SIP RP16
BIT 5
BIT 4
BIT 3
BIT 2
SEL BIT 3
BIT 1
BIT Ø
SEL TAG
TAG 3
TAG 2
TAG 1
SEL BIT 1
SEL BIT Ø
ZETACO
SMD INTERFACE 'A'
700-383-00C
(SHEET 23)


SERVO CLK J2-14
SERVO CLK J2-2
RD DATA J2-16
RD DATA J2-3
RD CLK J2-17
RD CLK J2-5
UNIT SELECTED J2-9
UNIT SELECTED J2-22
SERVO CLK J3-14
SERVO CLK J3-2
RD DATA J3-16
RD DATA J3-3
RD CLK J3-17
RD CLK J3-5
UNIT SELECTED J3-9
UNIT SELECTED J3-22
SEEK END J2-23
SEEK END J2-10
SEEK END J3-23
SEEK END J3-10
SEEK END J4-23
SEEK END J4-10
SEEK END J5-23
SEEK END J5-10
SERVO CLK J4-14
SERVO CLK J4-2
RD DATA J4-16
RD DATA J4-3
RD CLK J4-17
RD CLK J4-5
UNIT SELECTED J4-9
UNIT SELECTED J4-22
SERVO CLK J5-14
SERVO CLK J5-2
RD DATA J5-16
RD DATA J5-3
RD CLK J5-17
RD CLK J5-5
UNIT SELECTED J5-9
UNIT SELECTED J5-22
MC3450 EN J11
MC3450 EN K11
MC3450 EN L11
MC3450 EN M11
MC3450 EN N11
MC3450 EN Y11
MC3453 EN X11
LS257 M11
WRITE DATA
PORT EN
PS 0
PS 1
PS 2
PS 3
SERVO CLK 0
RD DATA 0
RD CLK 0
UNIT SEL 0
SERVO CLK 1
RD DATA 1
RD CLK 1
UNIT SEL 1
SERVO CLK 2
RD DATA 2
RD CLK 2
UNIT SEL 2
SERVO CLK 3
RD DATA 3
RD CLK 3
UNIT SEL 3
WR CLK 0
WR CLK 0
WR DATA 0
WR DATA 0
WR CLK 1
WR CLK 1
WR DATA 1
WR DATA 1
WR CLK 2
WR CLK 2
WR DATA 2
WR DATA 2
WR CLK 3
WR CLK 3
WR DATA 3
WR DATA 3
GROUND
+5V
-5V
3.3K
470
(SHEET 24)
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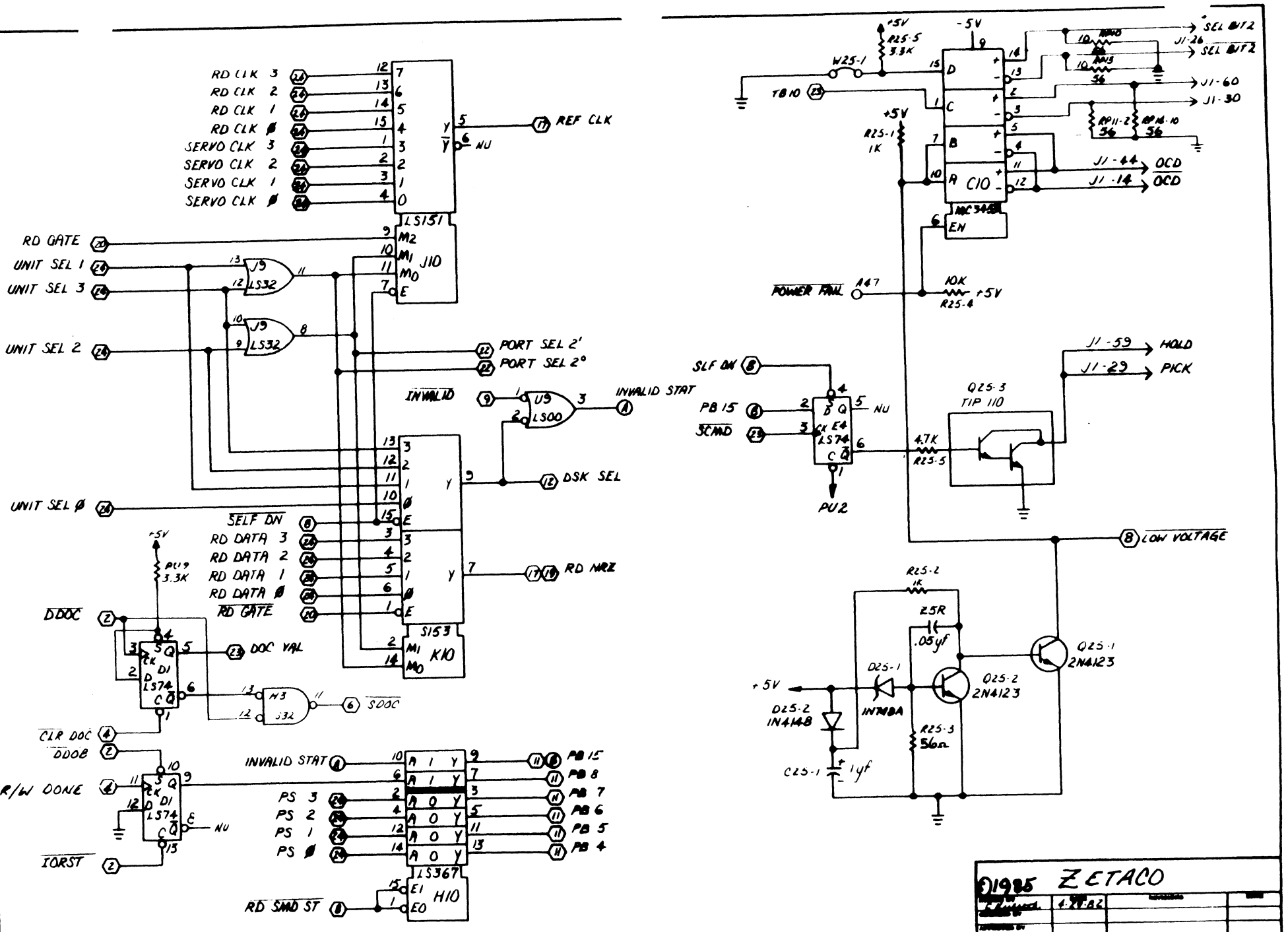
SCSI INTERFACE "B"
700383-00C

700383-000B



(SHEET 25)

	4.24.82		

SMD INTERFACE "CONTROL" 700-383-00C

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