

DWG NO
44A0637

REVISIONS

SYM	DESCRIPTION	APPROVED	DATE
A	PRODUCTION RELEASE PER EN81014	<i>[Signature]</i>	8/7/72
B	REVISED NOTE 3 PER EN 81352	<i>[Signature]</i>	12/6/72

FOR PARTS LIST SEE 44P0637

DR	<i>MANCARELLI</i>	6-23-72
CHK	<i>[Signature]</i>	7/17/72
DSGN	—	—
ENGR	<i>[Signature]</i>	7-19-72
APPD	<i>[Signature]</i>	7/19/72
APPD	—	—



varian data machines / a varian subsidiary
2722 michelson drive / irvine / california / 92664

TITLE
PEC DISC CONTROLLER
MODIFICATION

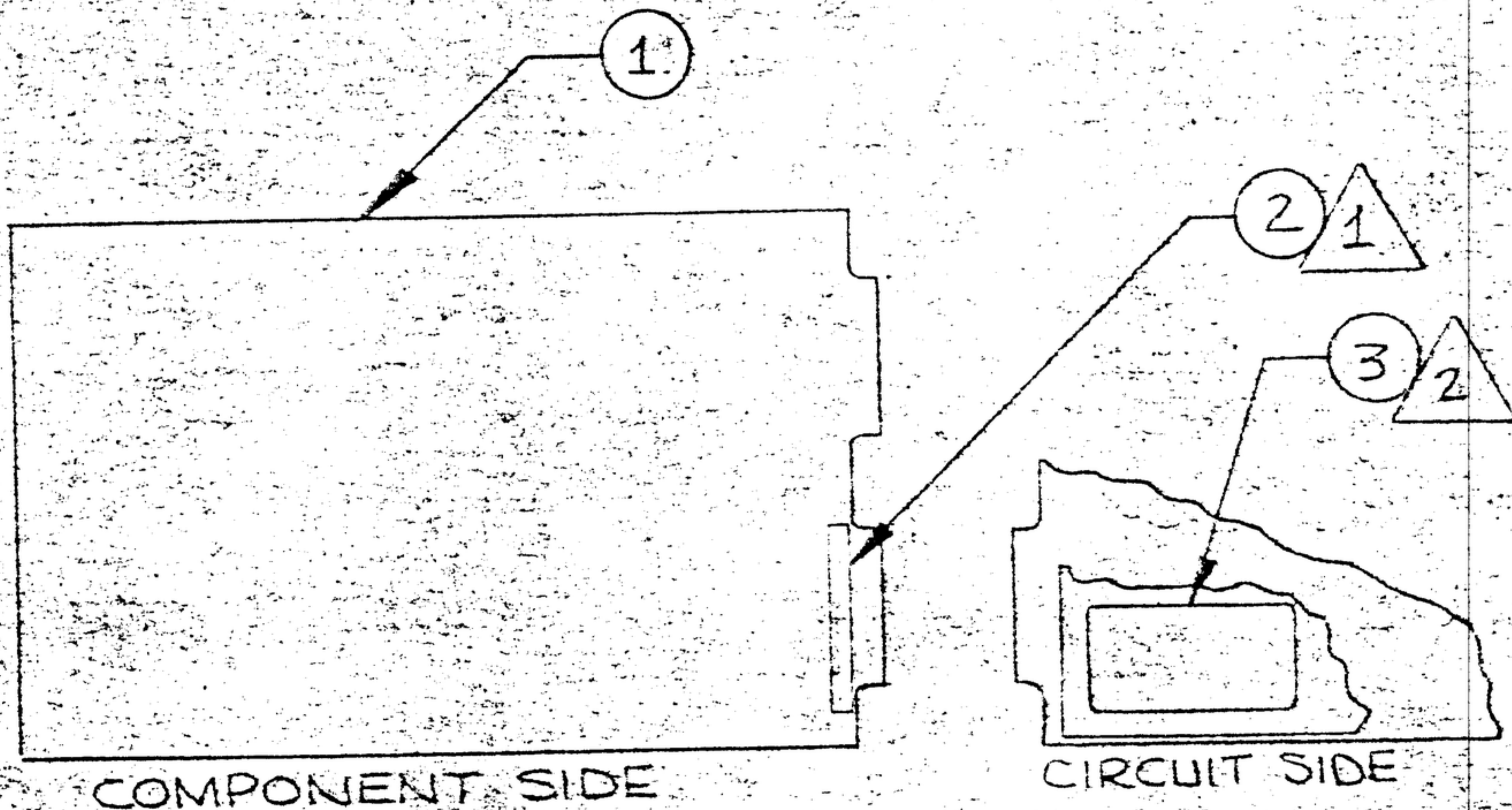
96A0153-000B

THIS DOCUMENT MAY CONTAIN PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED TO PRODUCE THE ARTICLE OR SUBJECT, WITHOUT WRITTEN PERMISSION FROM VDM

CODE IDENT NO.	SIZE	DWG NO.	REV
21101	A	44A0637	B
SCALE	620-36	SHEET 1	OF 3

NOTES: UNLESS OTHERWISE SPECIFIED:

1. THIS DRAWING MODIFIES 44P0551-000 FOR USE AS A 620-36 PEC DISC CONTROLLER.
2. ADD AND DELETE WIRES PER WIRE LIST 95W0942.
3. ADD F/N 7 & 4 TO BOARD, AT POSITION A8.
4. REMOVE EXISTING LABEL IDENT. AND REPLACE WITH NEW LABEL IDENT. WHERE SHOWN BELOW.
5. ADD F/N 7 & 6 TO BOARD AT POSITION D5.
6. ADD F/N 8 & 7 TO BOARD AT POSITION S8.



MARK PART NO. 44P0637-000 AND THE REVISION LETTER OF THE PARTS LIST TO WHICH THE PART WAS MANUFACTURED ON LABEL (F/N 2) IDENTIFICATION TO BE .12 HIGH CHARACTERS AND PERMANENT.



varian data machines
a varian subsidiary

CODE
IDENT NO.

21101

44A0637

SH 2 OF 3

B

REV

2

MARK IN TITLE, PARTS LIST NO. 44P0637-000, WIRE LIST NO. 95W0942, LOGIC DIAGRAM NO. 91C0394 AND THE REVISION LETTERS TO WHICH THE PART WAS MANUFACTURED ON LABEL (F/N 3) IDENTIFICATION TO BE .12 HIGH CHARACTERS AND PERMANENT.



varian data machines
a varian subsidiary

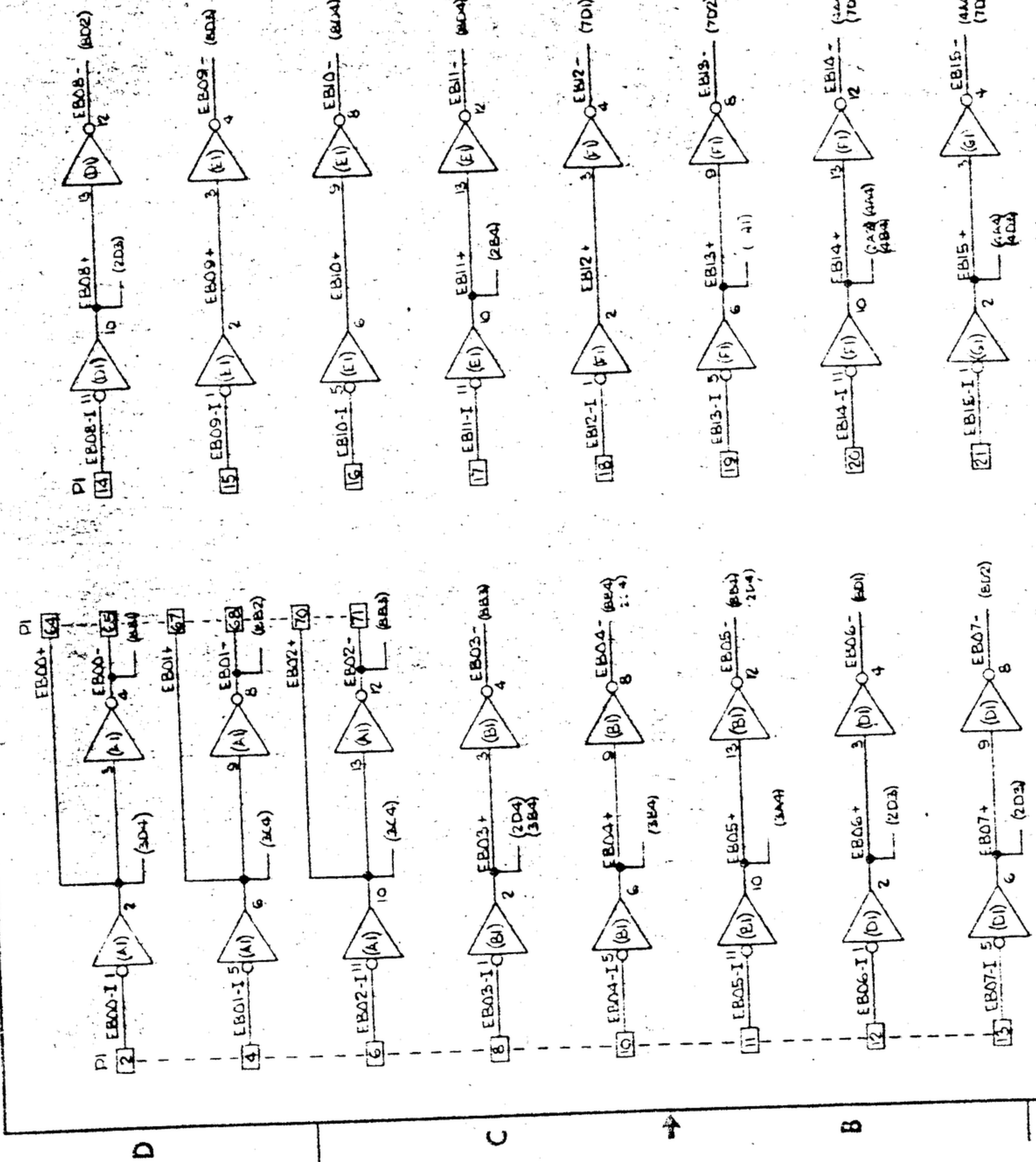
CODE
IDENT NO.

21101

44A0637 B

SH 3 OF 3 REV

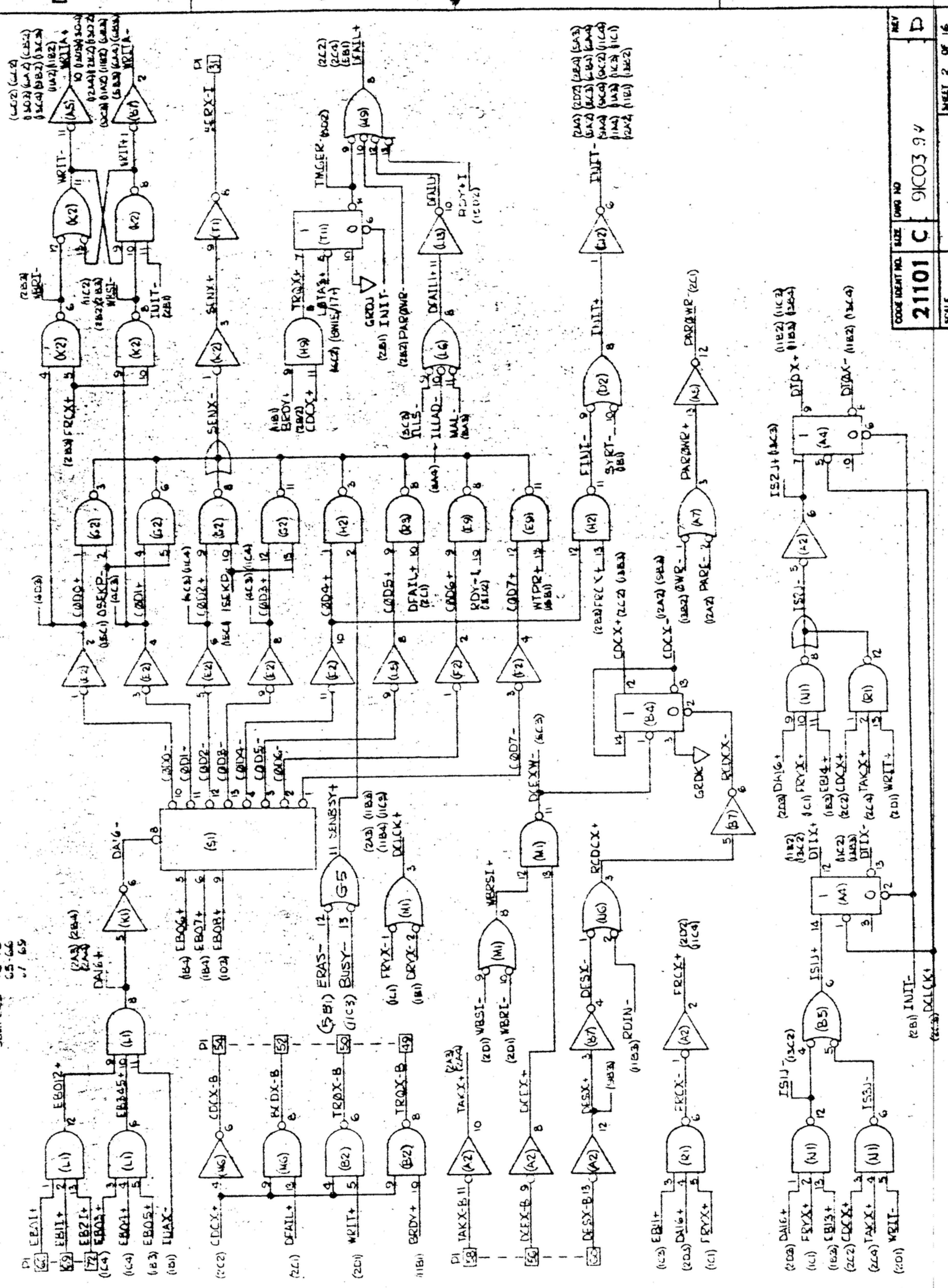
REVISIONS		DATE	
SYM	ZONE	DESCRIPTION	APPROVED
X		MODIFIED FOR MODEL 620-36 SHITS 2,515	<i>[Signature]</i>
A		PRODUCTION RELEASE PER EN 81014 3/1/74	<i>[Signature]</i>
B		REVISED PER EN 81352	<i>[Signature]</i>
C		REVISED PER EN 81327	<i>[Signature]</i>
D		REVISED PER EN 82237	<i>[Signature]</i>

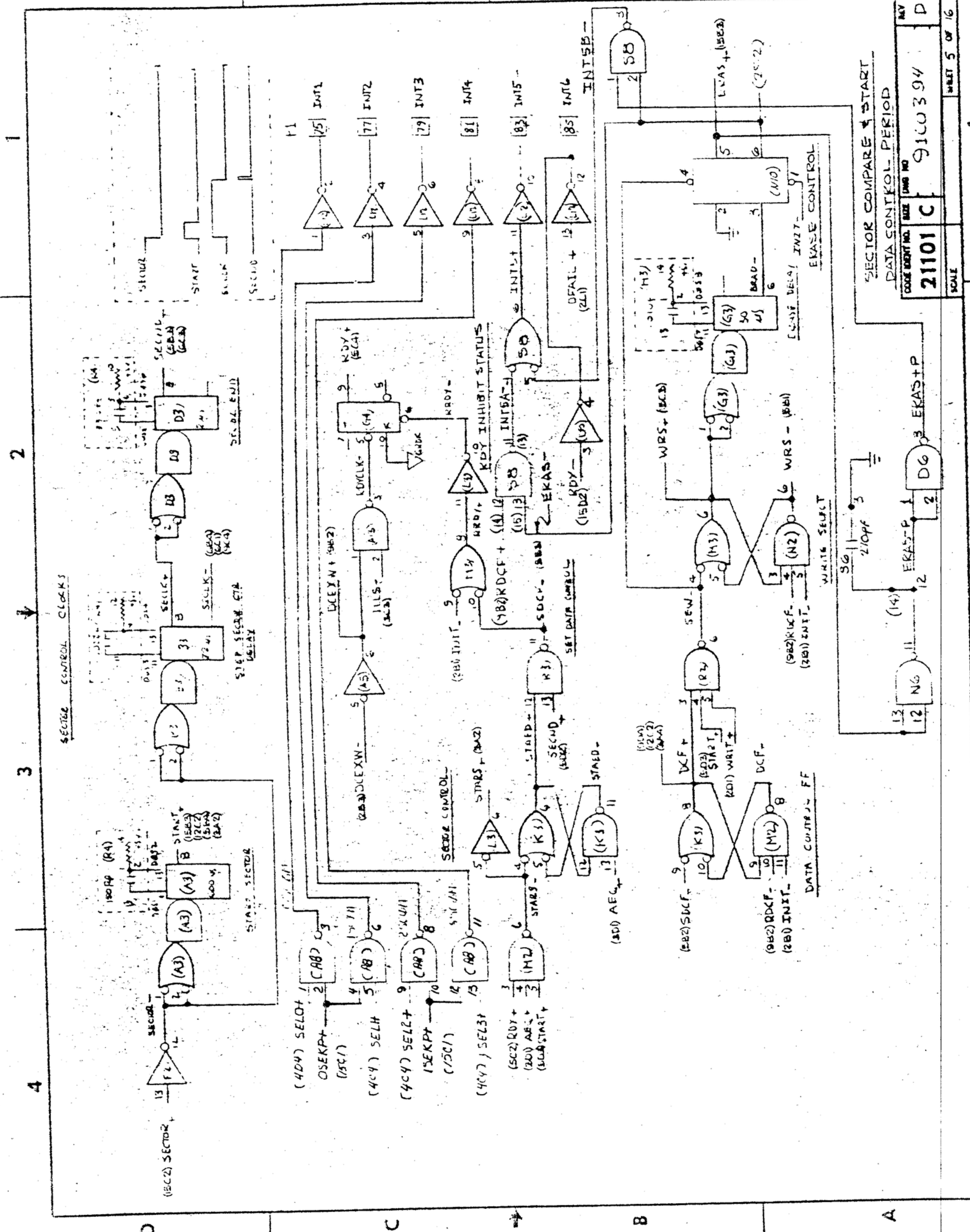


VARIAN DATA MACHINES a Varian subsidiary 222 Michelson Drive, Santa Clara, California 95050		TITLE DISC CONTROLLER MODEL 620-36	CODE IDENT NO. 21101 C	SIZE 91C0394	REV D
DR <i>[Signature]</i> 7.1.71 CRK <i>[Signature]</i> 7.1.71 DSGN <i>[Signature]</i> 7.1.71 ENGR <i>[Signature]</i> 7.1.71 APPR <i>[Signature]</i> 7.1.71 APPR	THIS DOCUMENT MAY CONTAIN PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED TO PRODUCE THE ARTICLE OR SUBJECT WITHOUT WRITTEN PERMISSION FROM VDM				
MODEL NO. 620-36 NEXT ASSY MATERIAL FINISH	DIMENSIONS ARE IN INCHES AND AFTER FINISHING TOLERANCES UNLESS OTHERWISE SPECIFIED X ± .1 XX ± .05 XXX ± .010 ANGLES ± .05° BREAK ALL SHARP EDGES .010 R APPROX DO NOT SCALE DRAWING				
SCALE		SHEET 1 OF 16		91C0394	

NOTES: (UNLESS OTHERWISE SPECIFIED)

DEVICE ADDRESS = 16
 JUMPERS 70-72
 65-66
 67-68





SECTOR COMPARE & START
DATA CONTROL PERIOD

CODE IDENT NO. 21101 C
DRAW NO. 910394
SCALE
SHEET 5 OF 16

SECTOR CONTROL CLOCKS

START SECTOR
150 R4 (R4)
START+ (E83)
(222)
(574)
(2A2)

STOP SECTOR
674
684

DATA CONTROL FF

WRITE SELECT

ERASE CONTROL

A

B

C

D

4

3

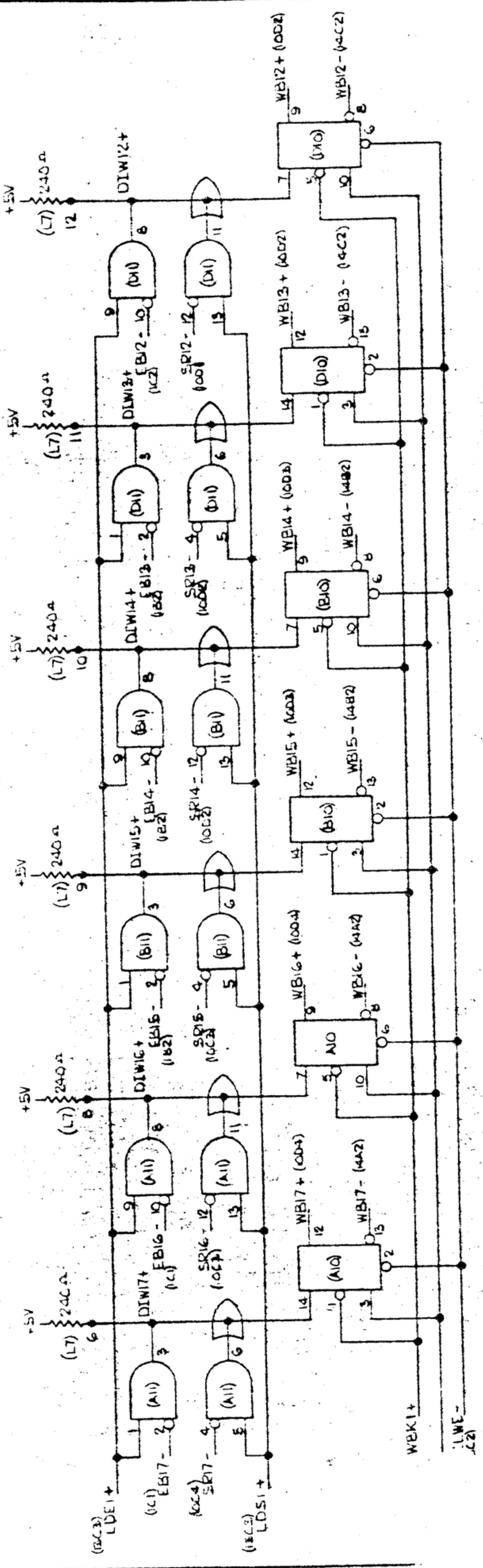
2

1

7

1

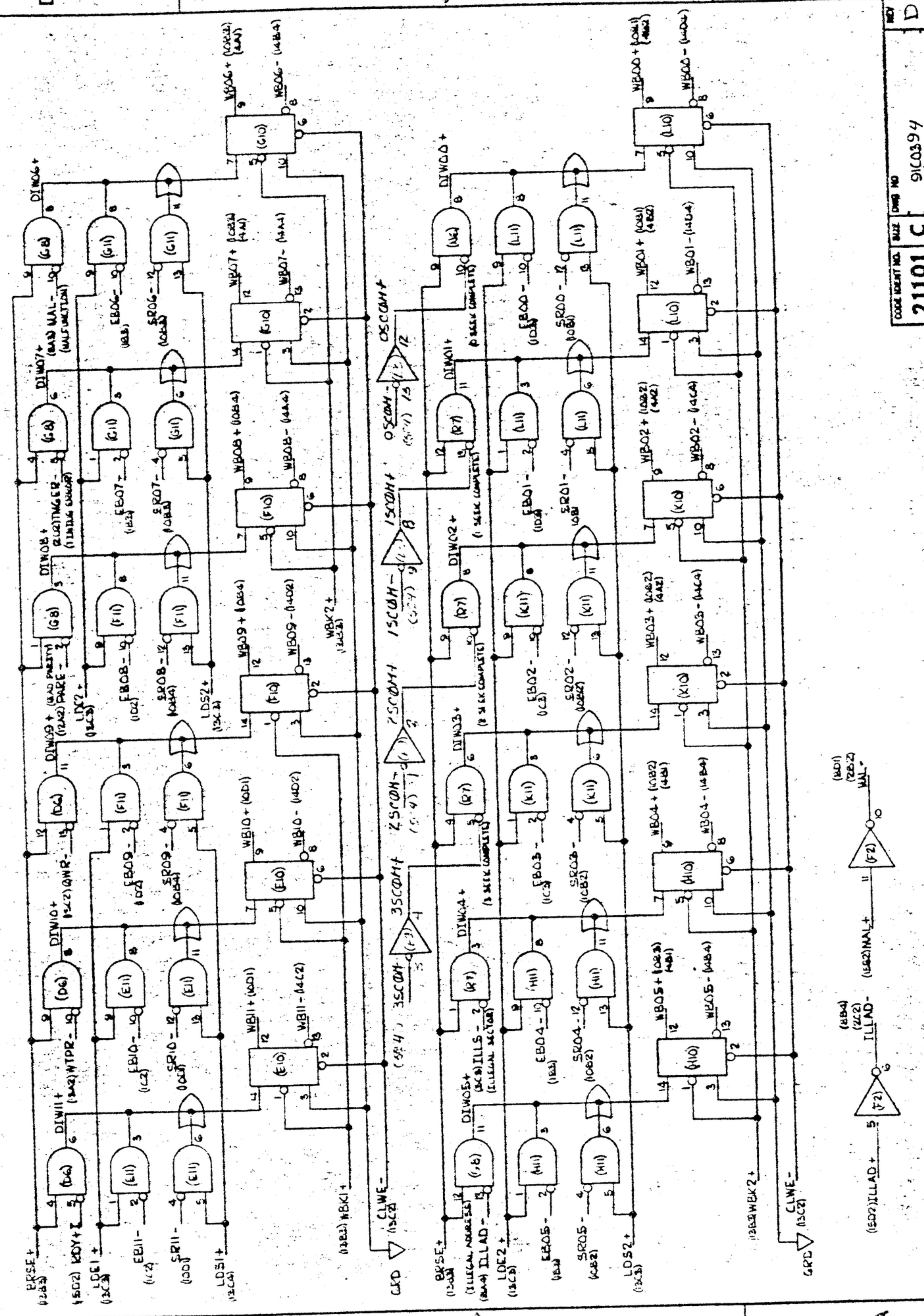
1 2 3 4



CODE SHEET NO.	SIZE	DWG NO.	REV.
21101 C		91C0394	D
SCALE			SHEET 7 OF 16

1 2 3 4

4 3 2 1



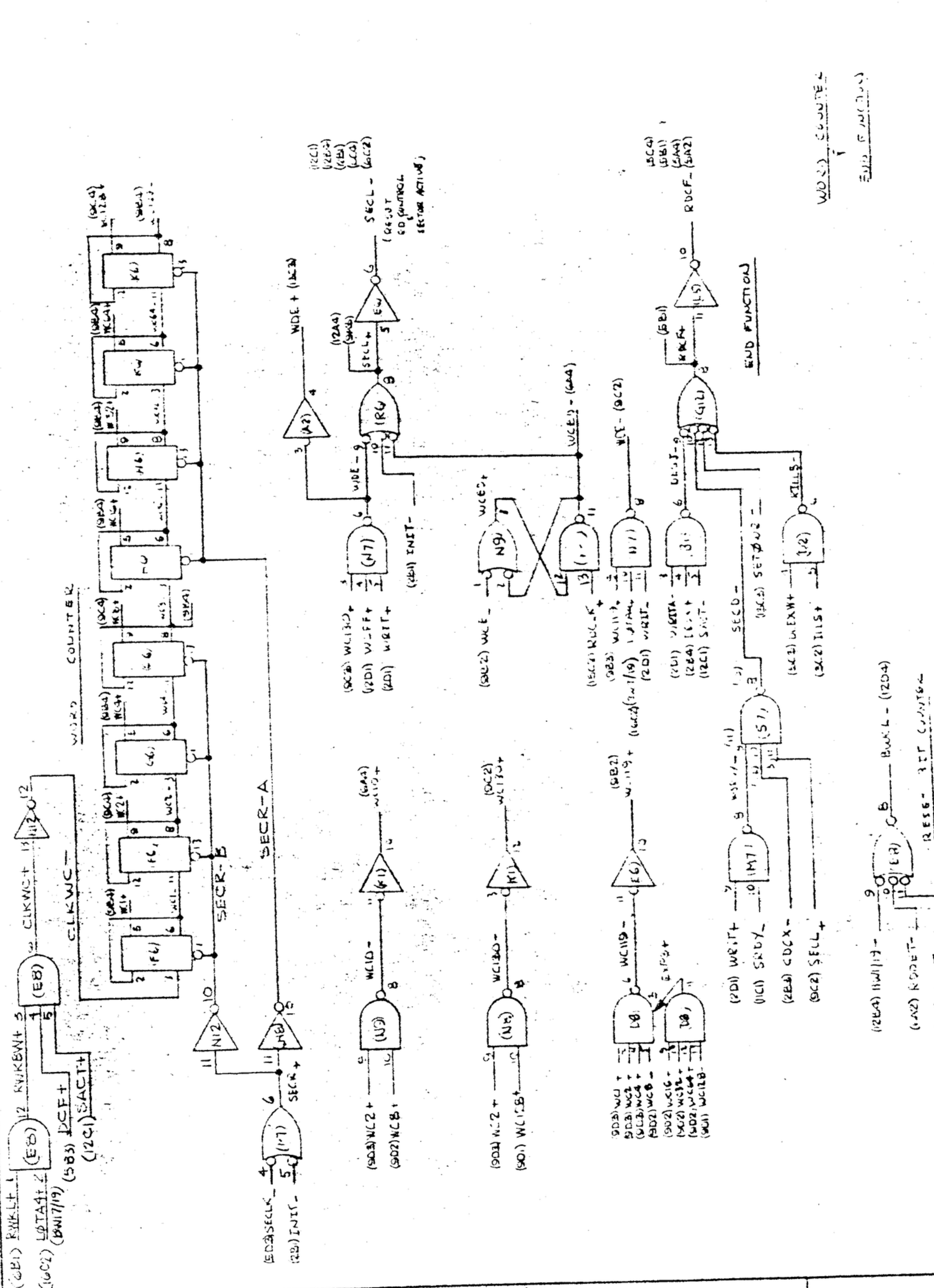
CODE IDENT NO.	SIZE	CHG NO.	REV
21101 C		910394	D
SCALE	SHEET 6 OF 10		

A

B

C

D



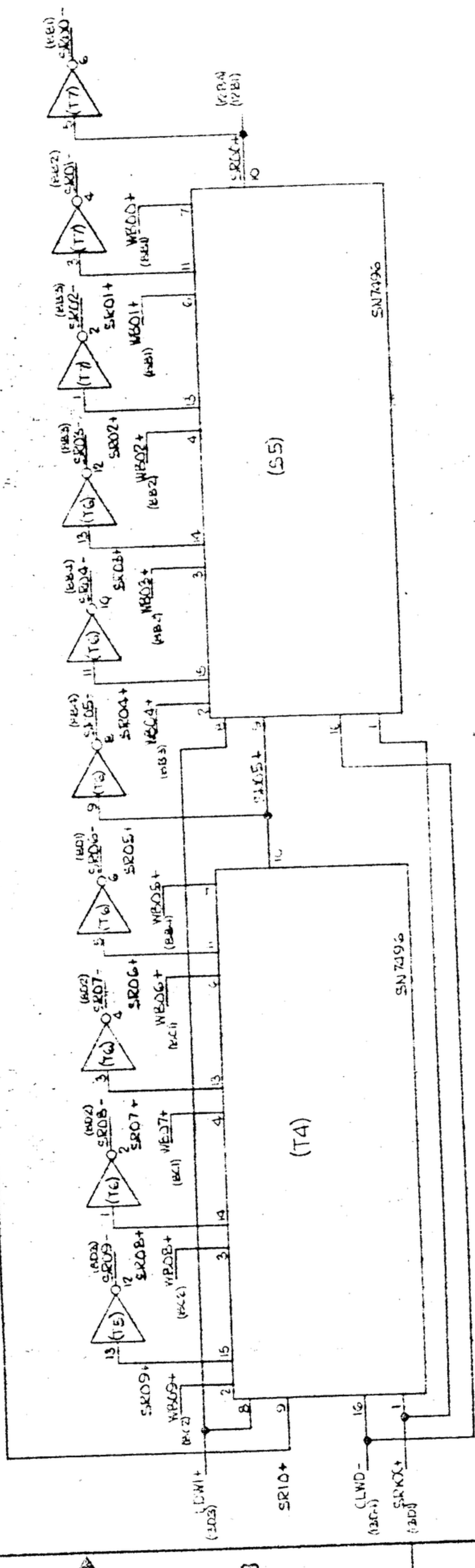
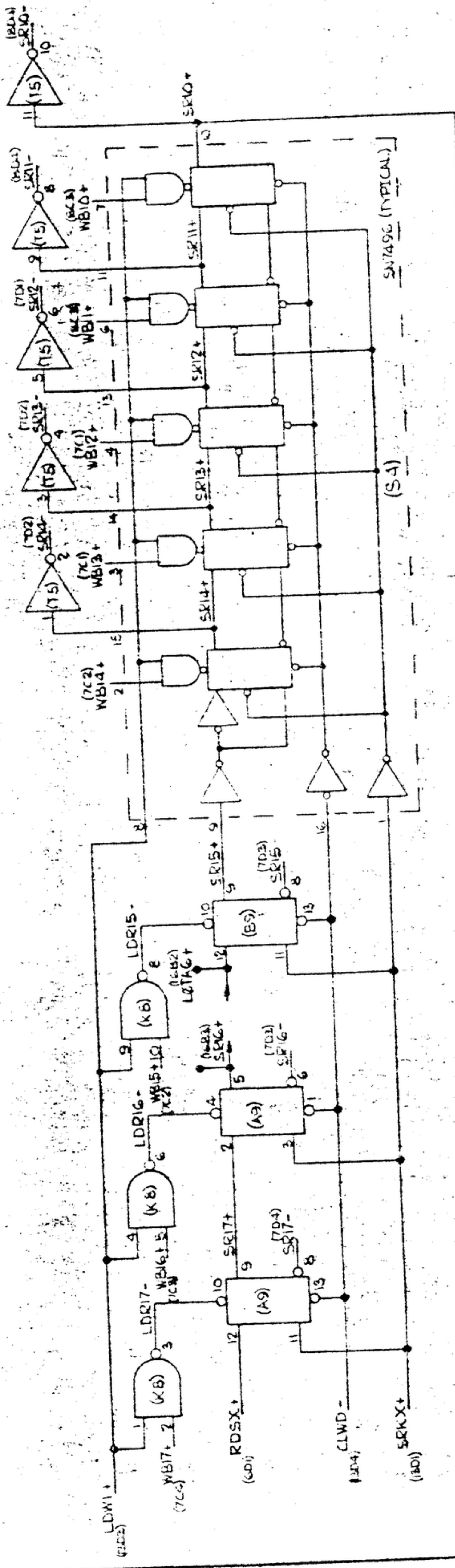
WORLD COMPUTER
 EXP. 6. 10. 1954

1

2

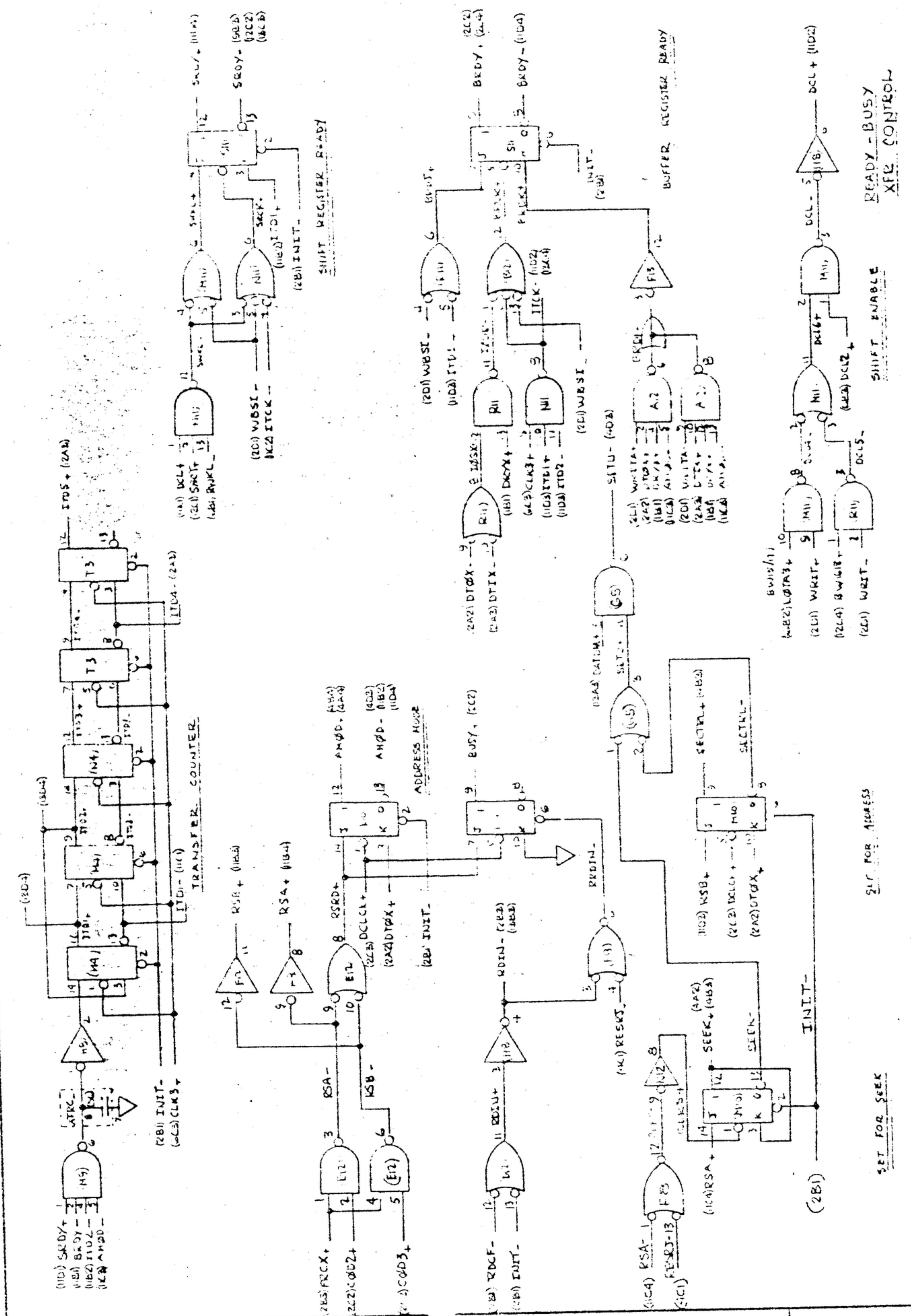
3

4

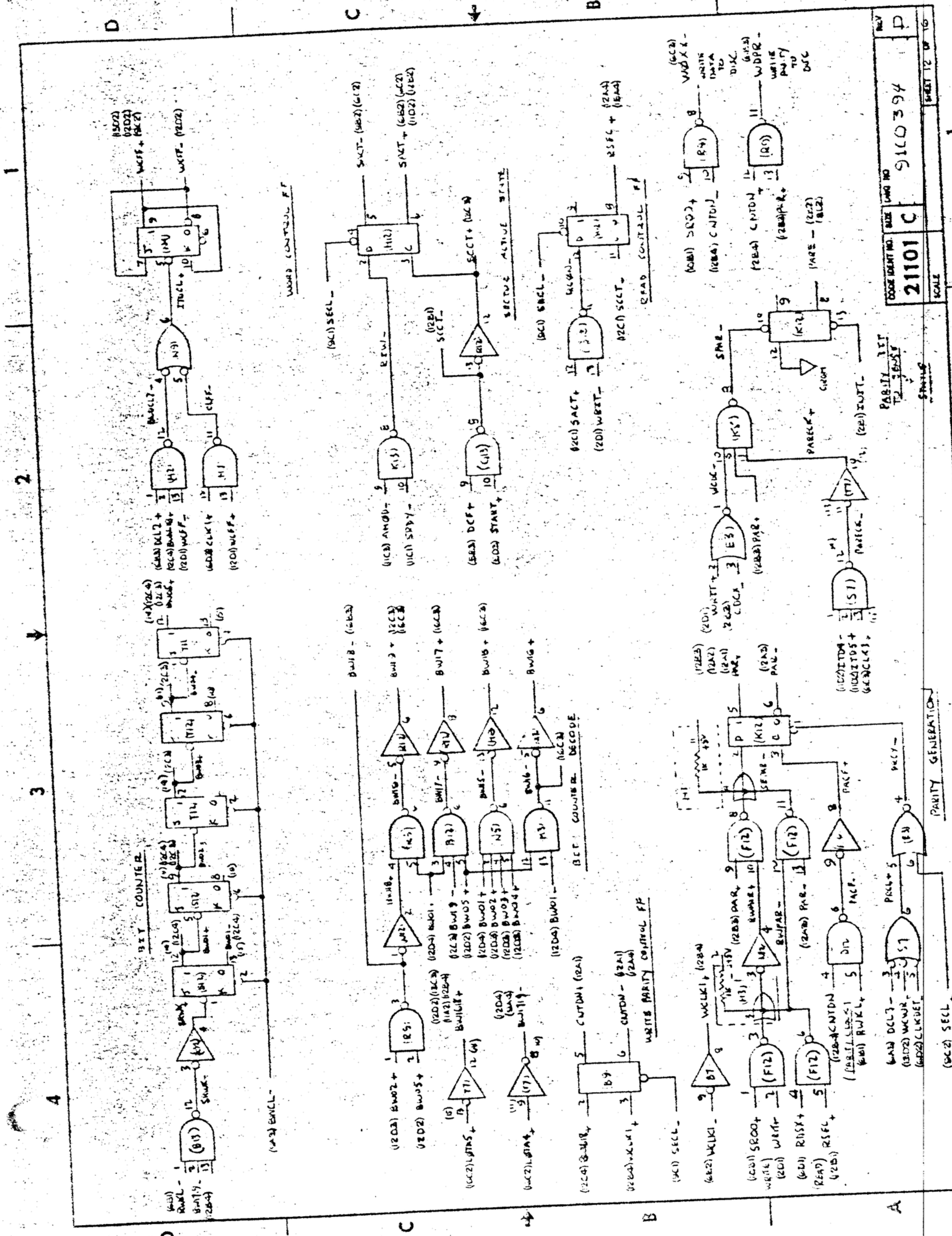


18 BIT DATA SHIFT REGISTER

KEY	D
DATE IDENT NO.	21101 C
SIZE	91C0394
UNQ NO.	
SCALE	
SHEET 10 OF 16	



CODE ELEMENT NO.	21101	C	DWG NO.	9103094	REV	D
SCALE					SHEET 11	OF 16

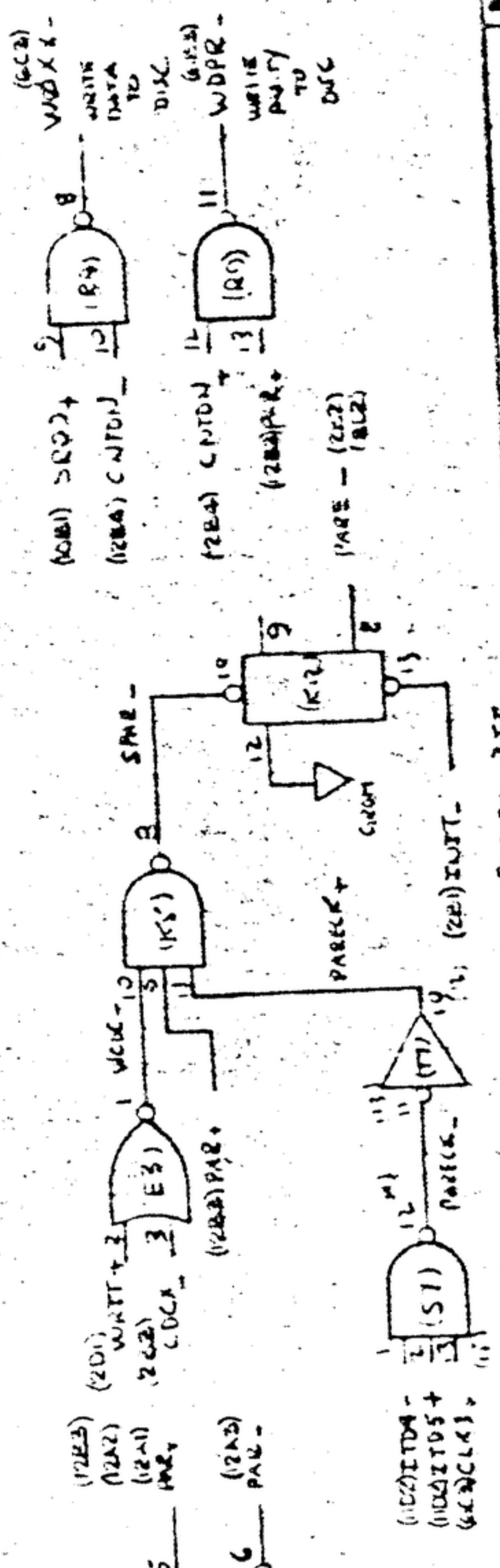
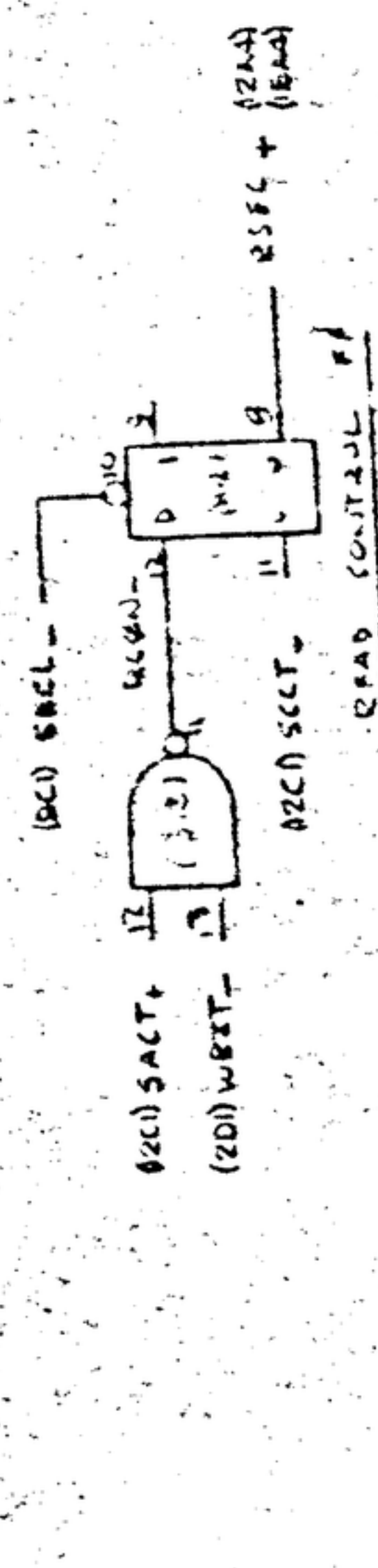
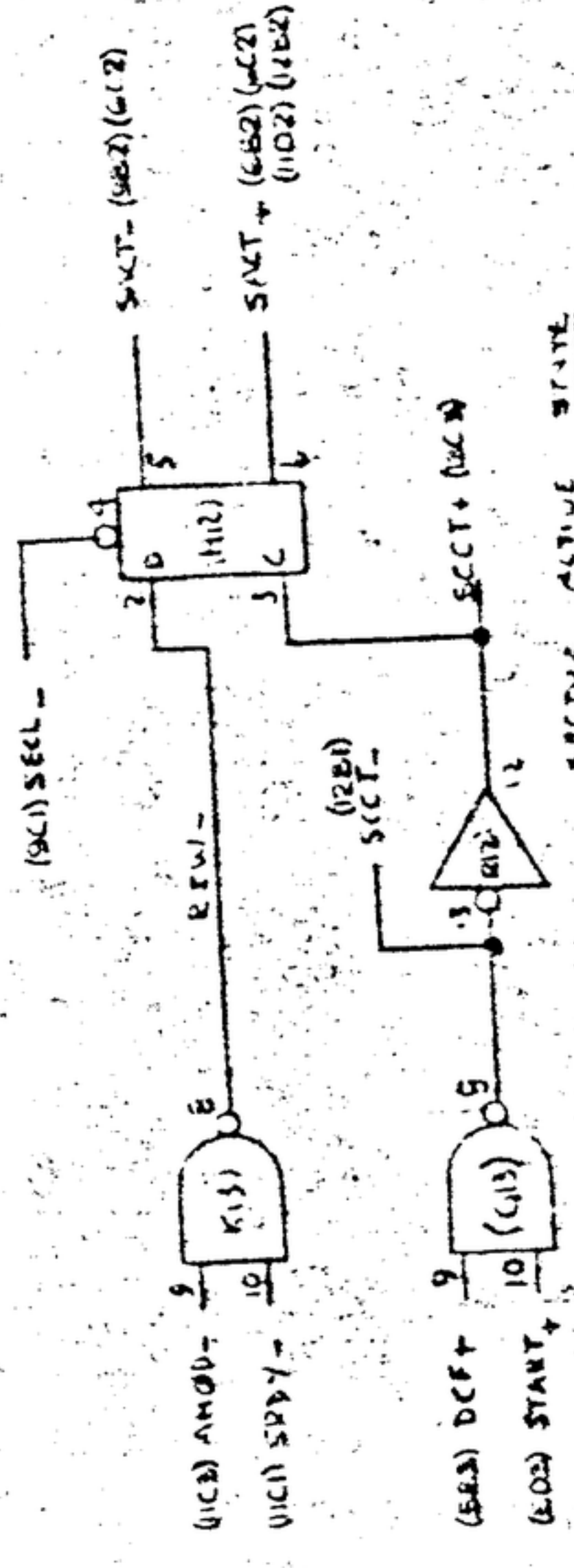
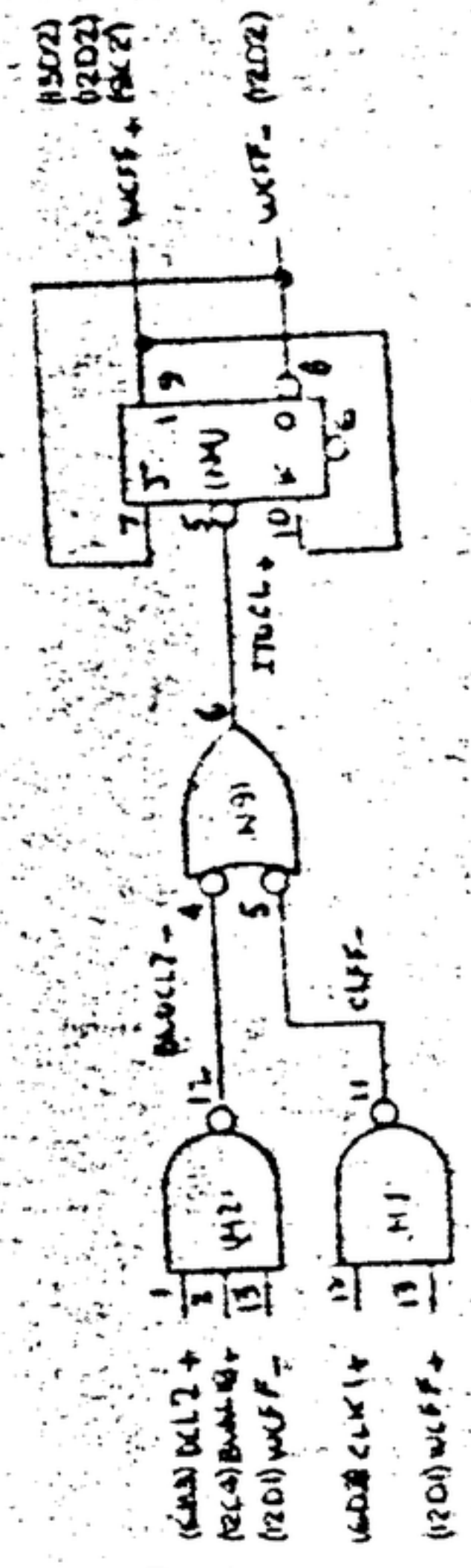


D

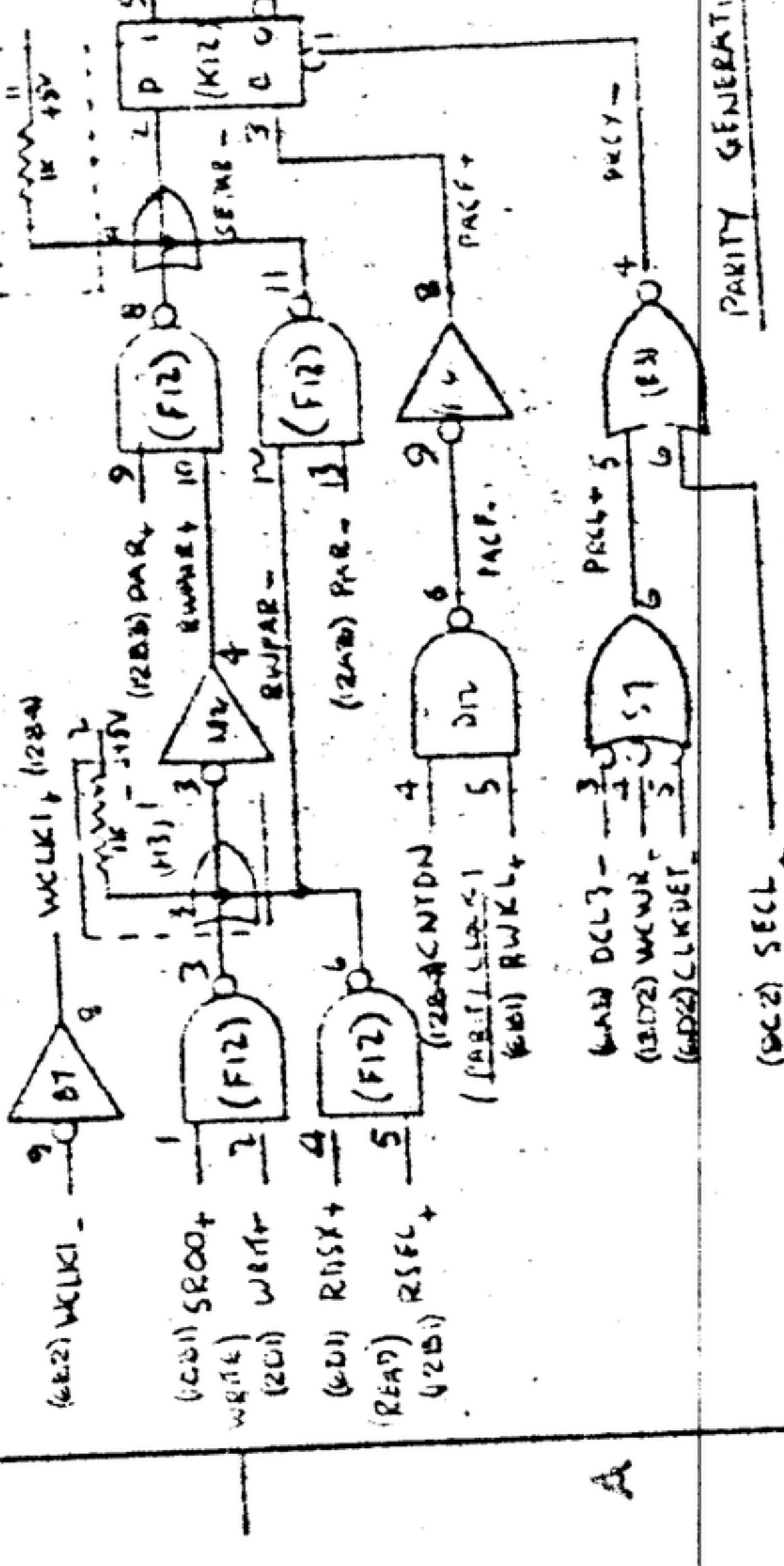
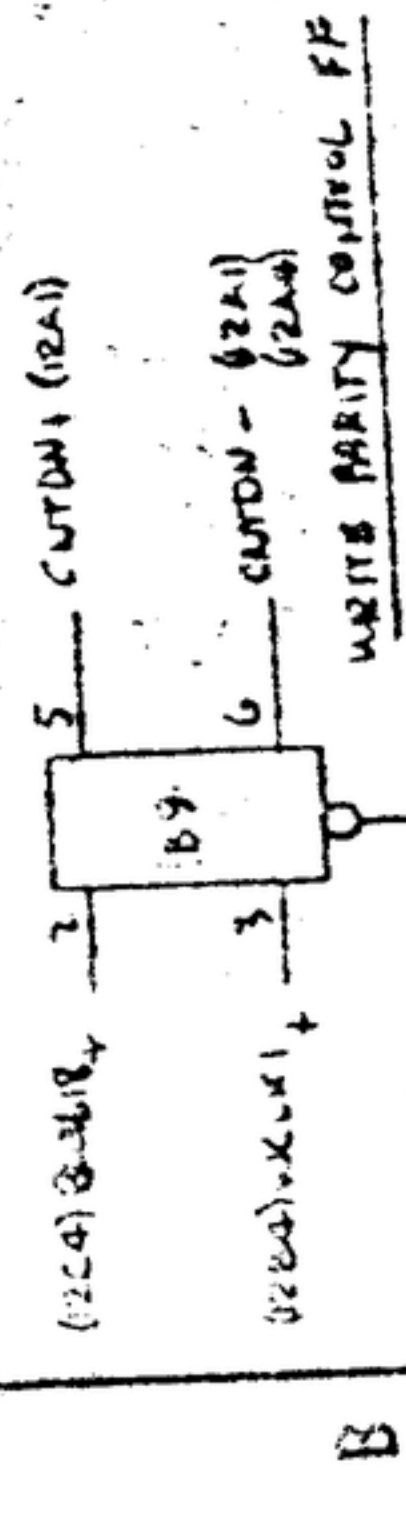
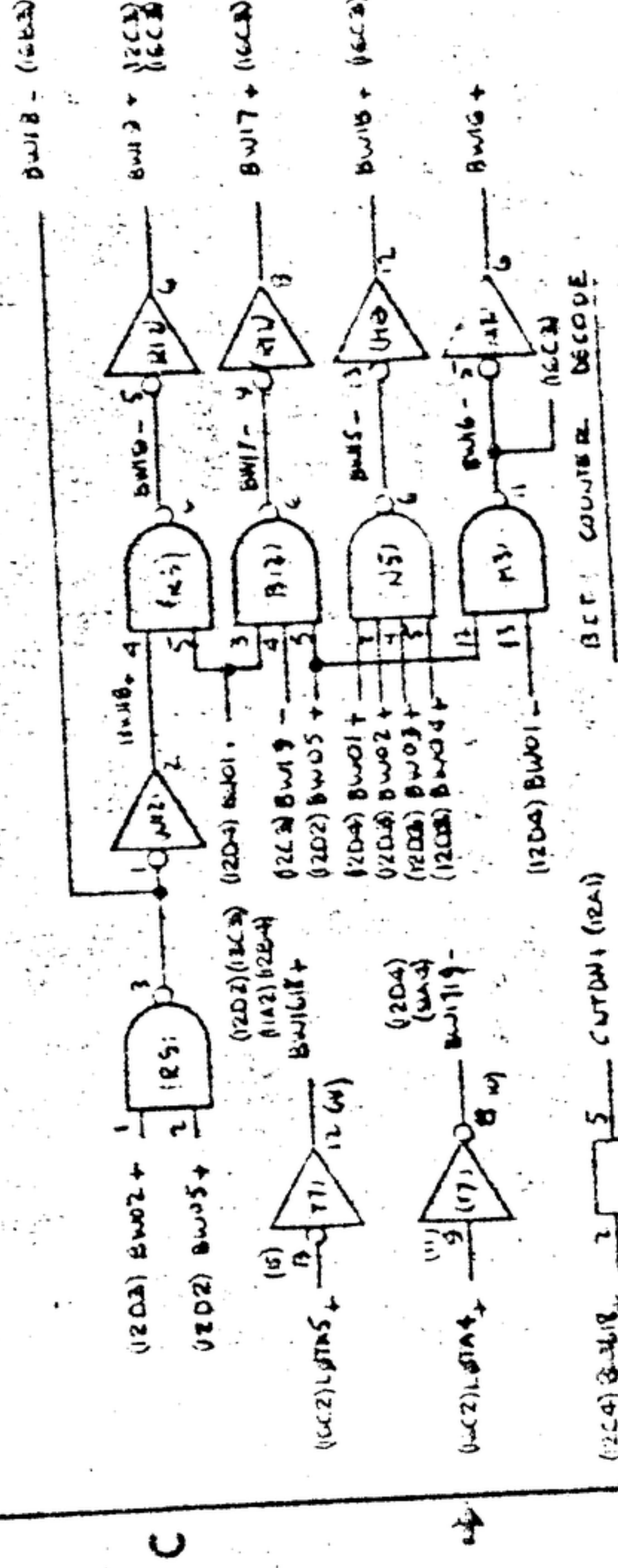
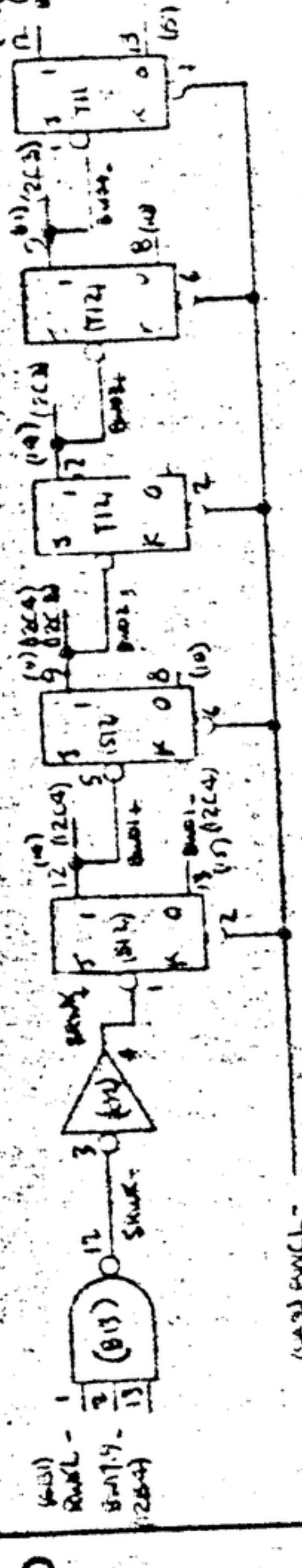
C

B

A



3 BIT COUNTER



CODE IDENT NO.	SIZE	UNIT NO.	REV
21101 C		9100394	P
SCALE			PAGE 12 OF 10

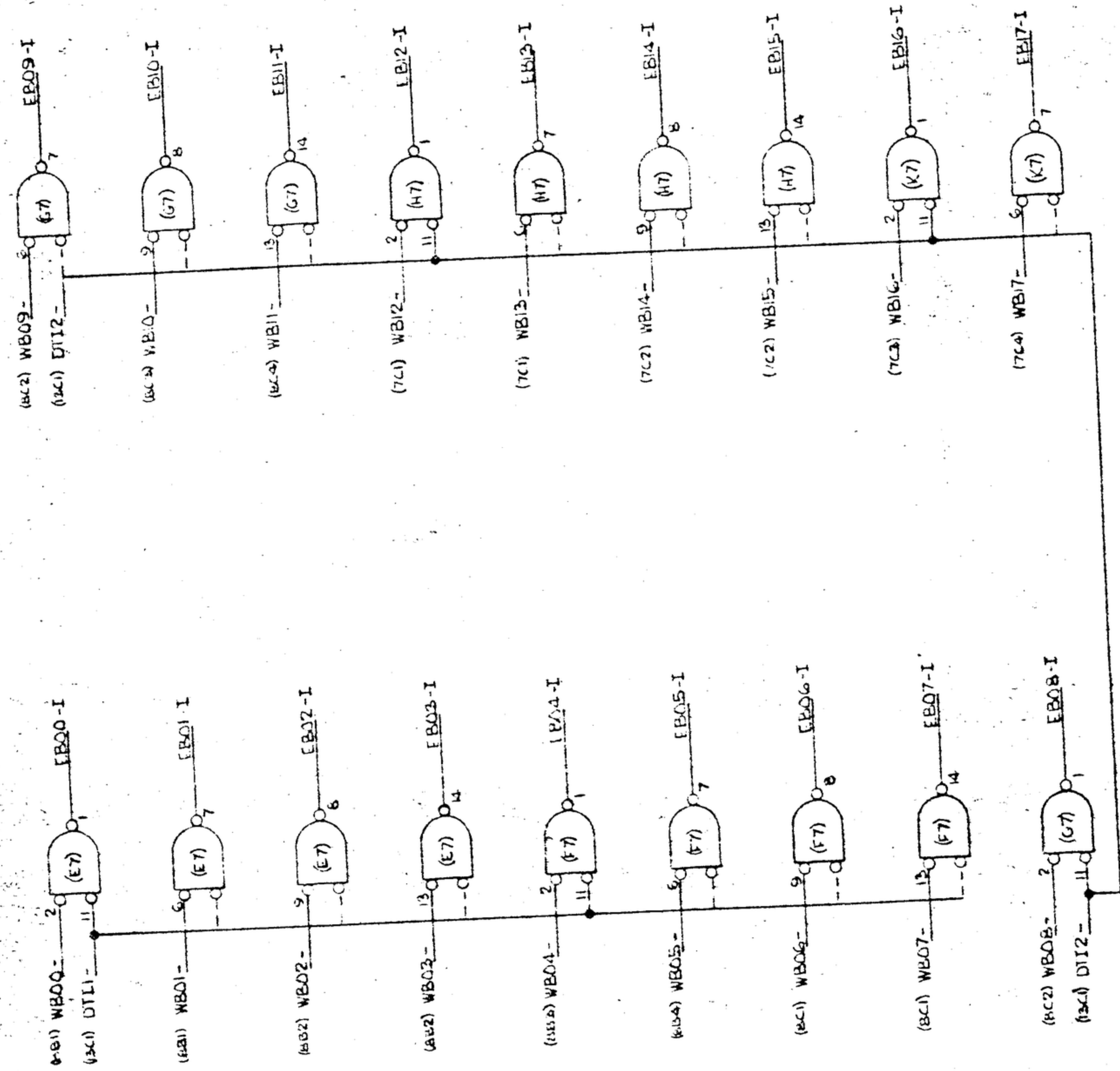
PARTIAL TEST
 T2 5658
 STATUS

PARITY GENERATION

(10C2) SECL- (10C2)

1 2 3 4

D C B A



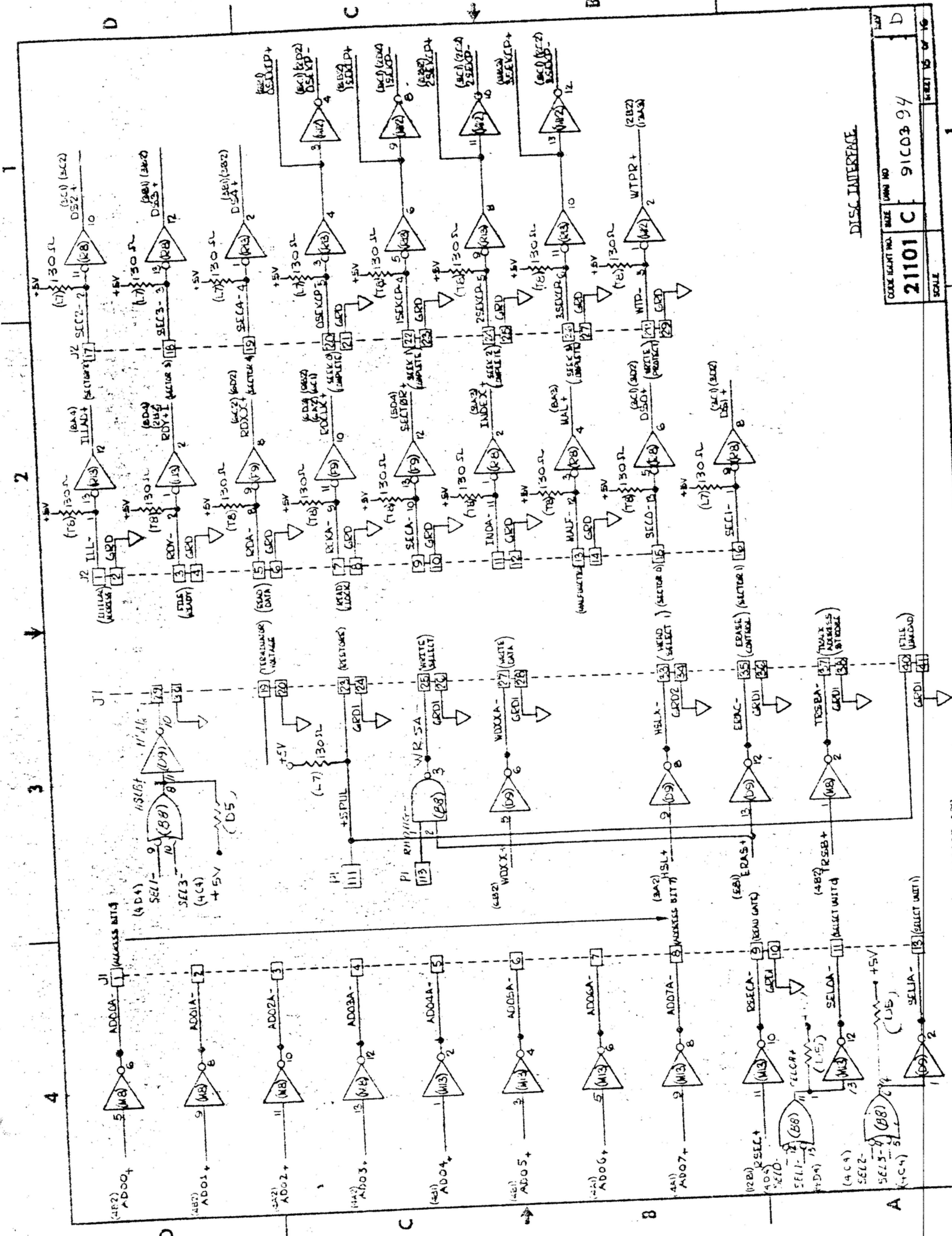
DATA TO CPU

CODE IDENT NO.	21101	SIZE	C	DATE	910394	REV	D
SCALE							SHEET 14 OF 16

1. BUS TIE POINTS ON SHEET 1
 GROUND IS ON PINS 10, 15 ON FB1-4 AND 13 ON PIN 5
 PIN 11 IS COMMON TO ALL GATES ON CHIP
 NOTE: IC'S ARE MC4042P (OR GATES)

A

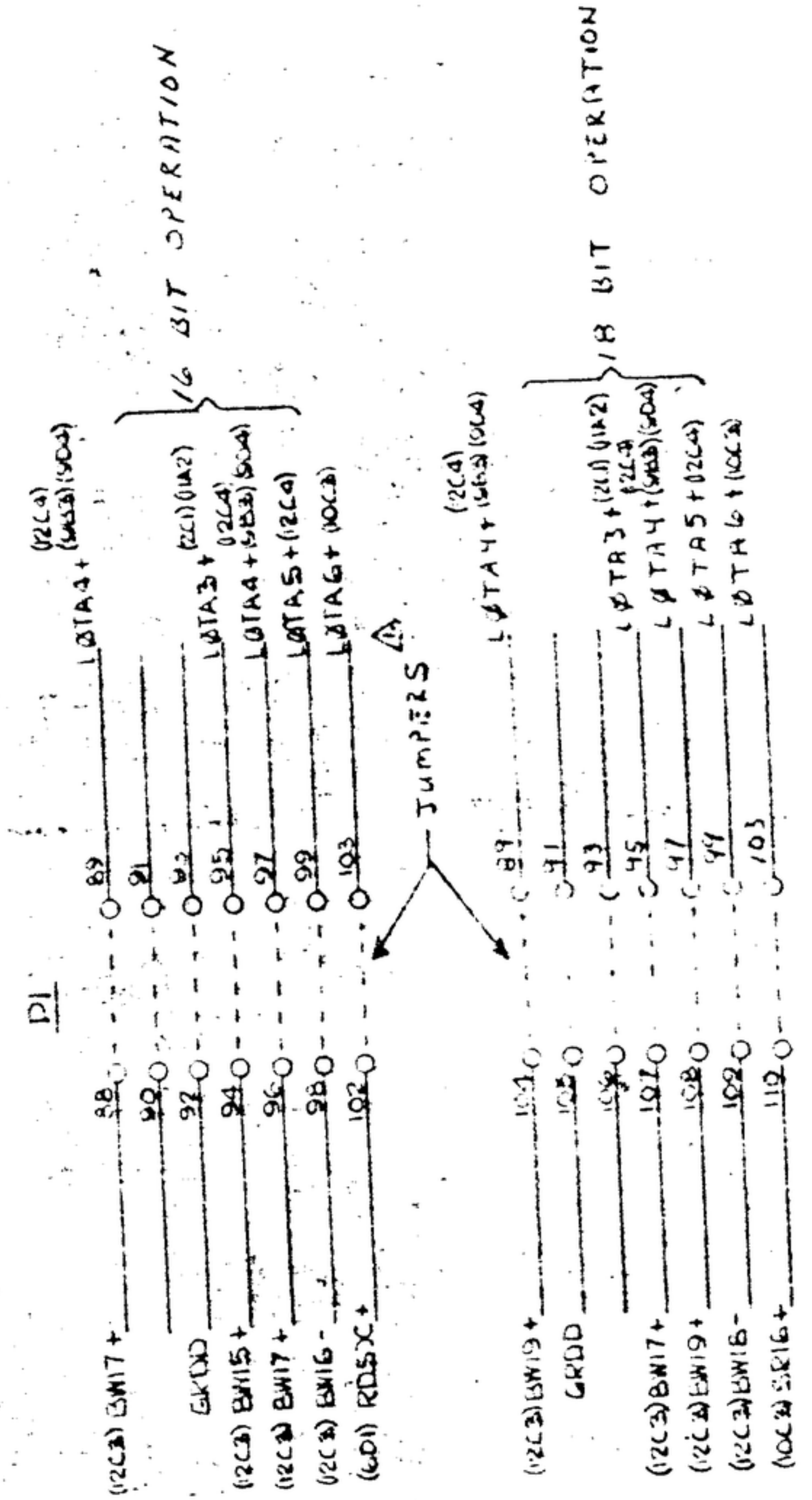
2



DISC INTERFACE

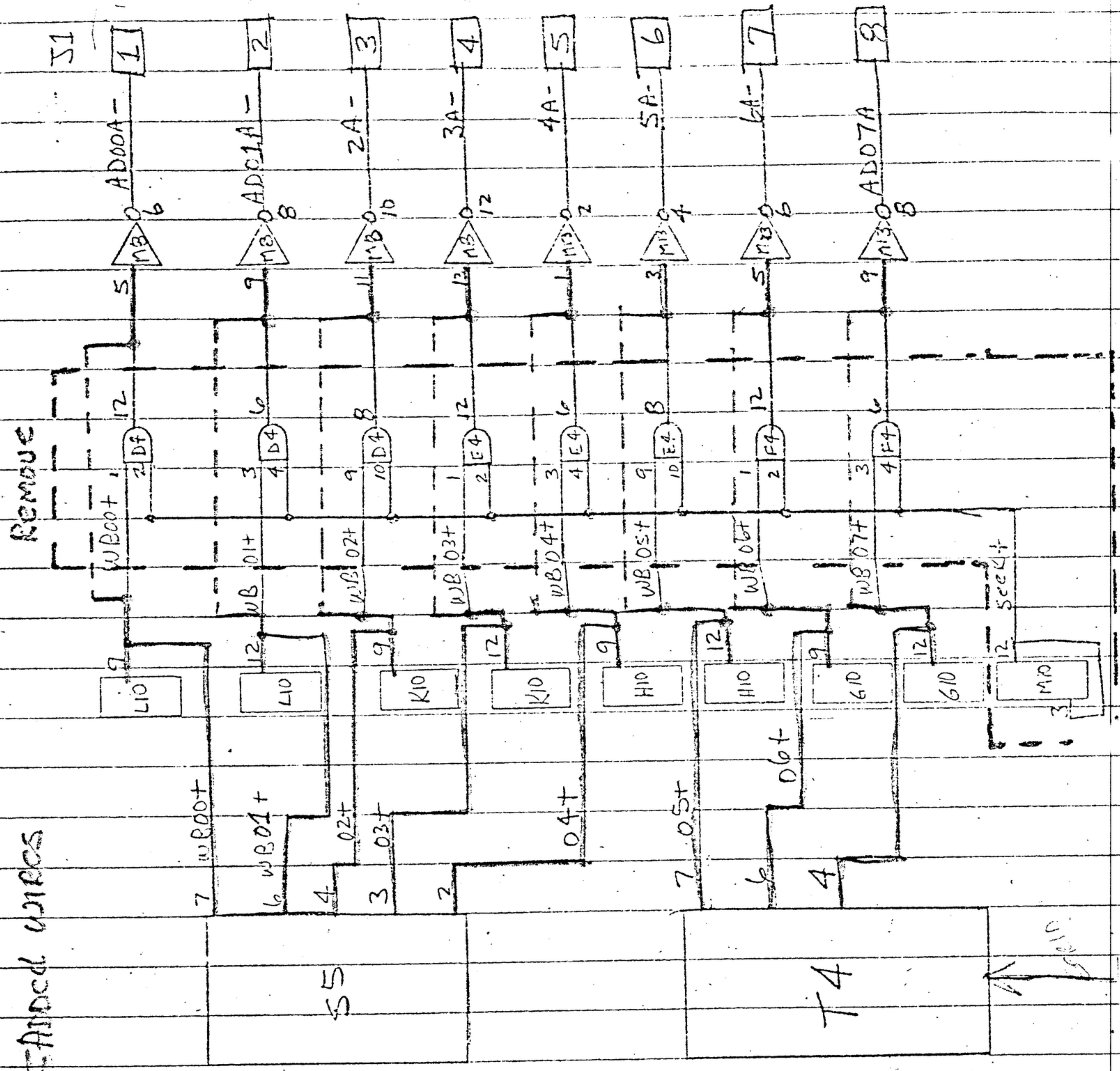
CODE SCANT NO.	21101
MAKE	C
DATE	9103 94
SCALE	1
PAGE NO.	16

16 OR 18 BIT WORD SELECTION



△ JUMPERS ADDED IN TEST H. REQUIRED PER CIRCUITRY

① Red indicates pre-aided wires

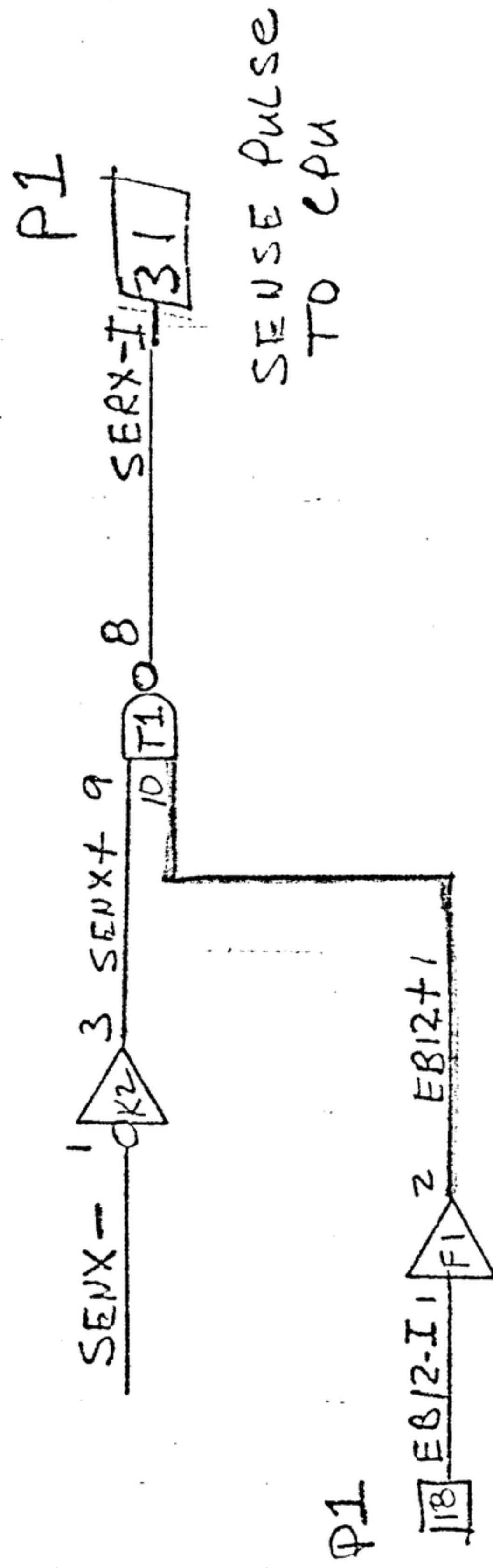


S5

T4

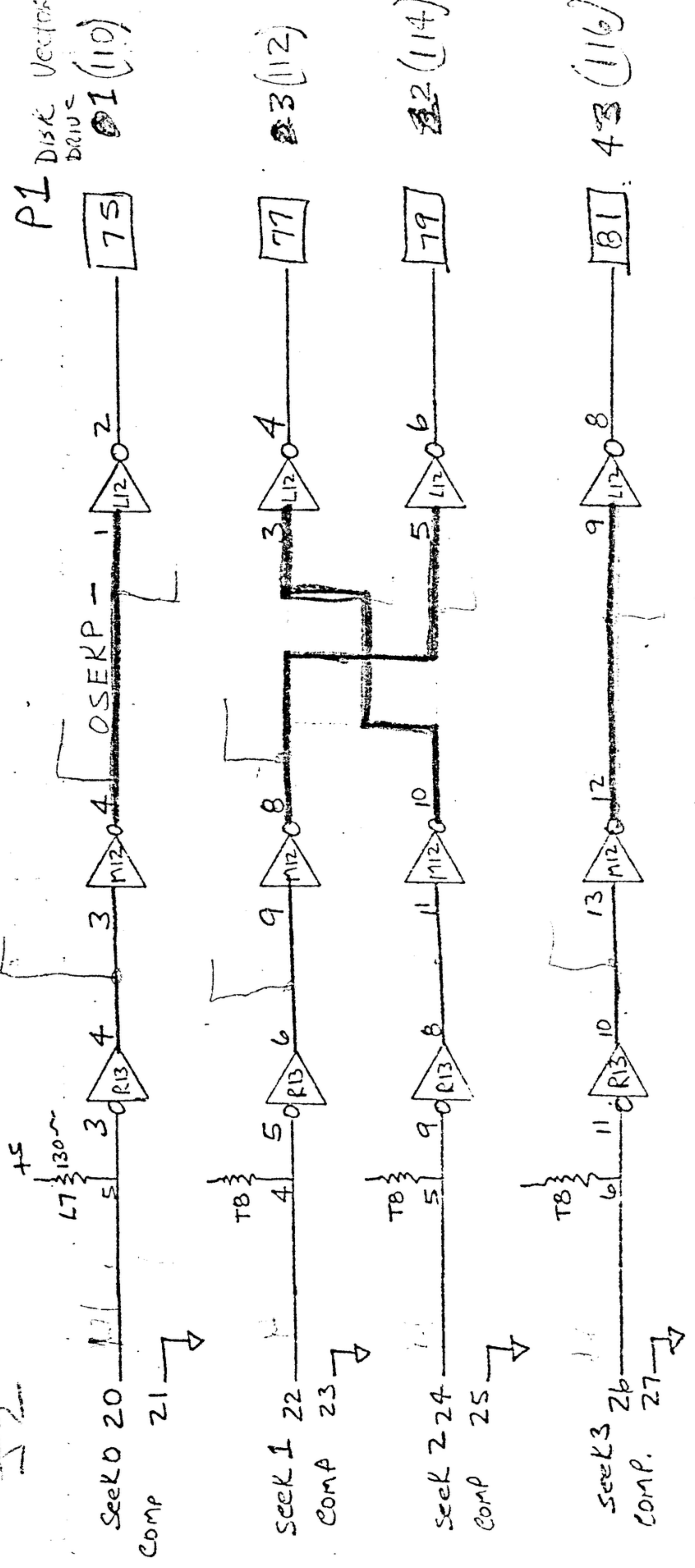
see

(D) Red indicates Added wires



20 21 22
Disk Drive

22



SEEK COMPLETE

MOD

① Red indicates added wires

