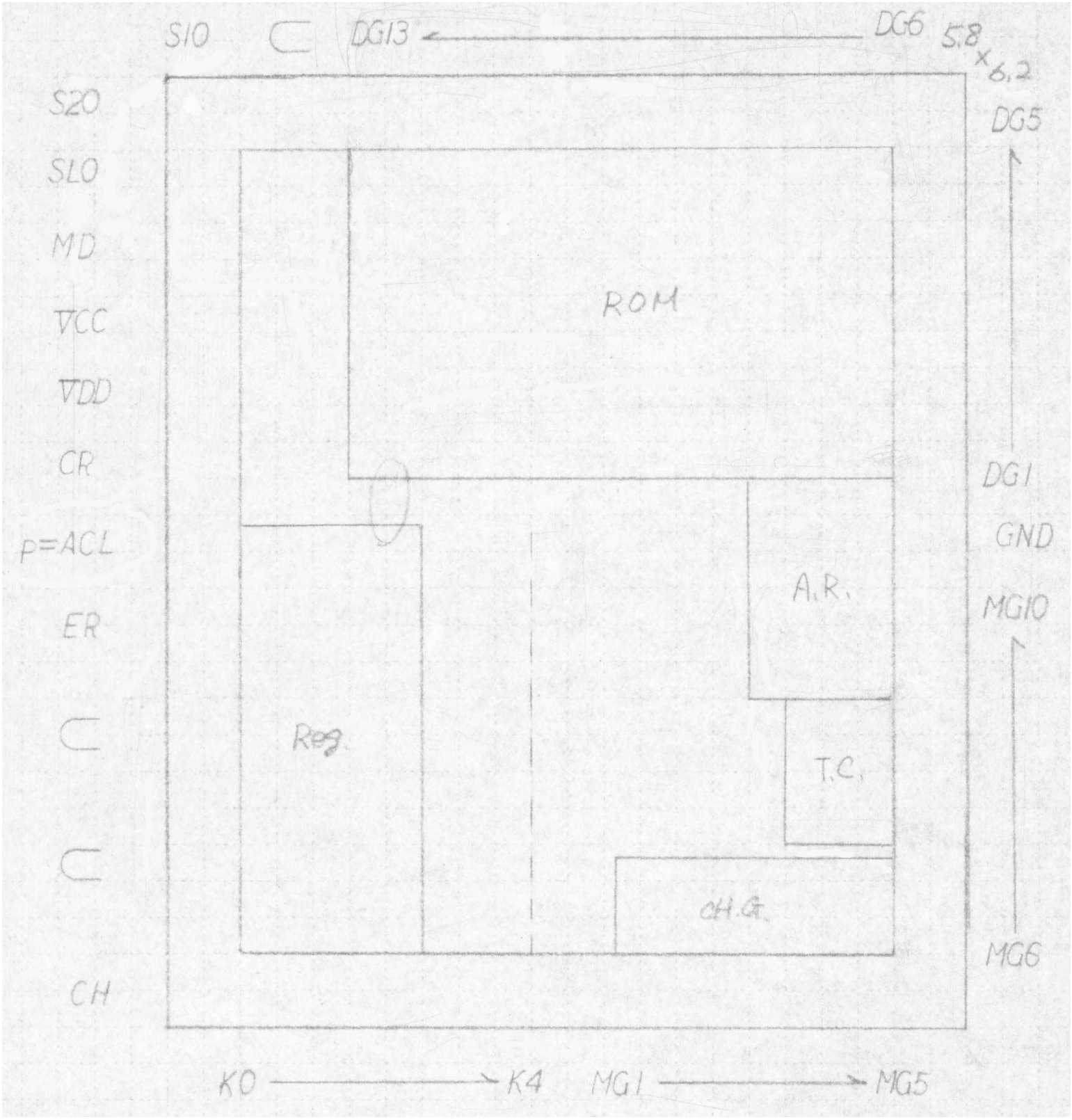
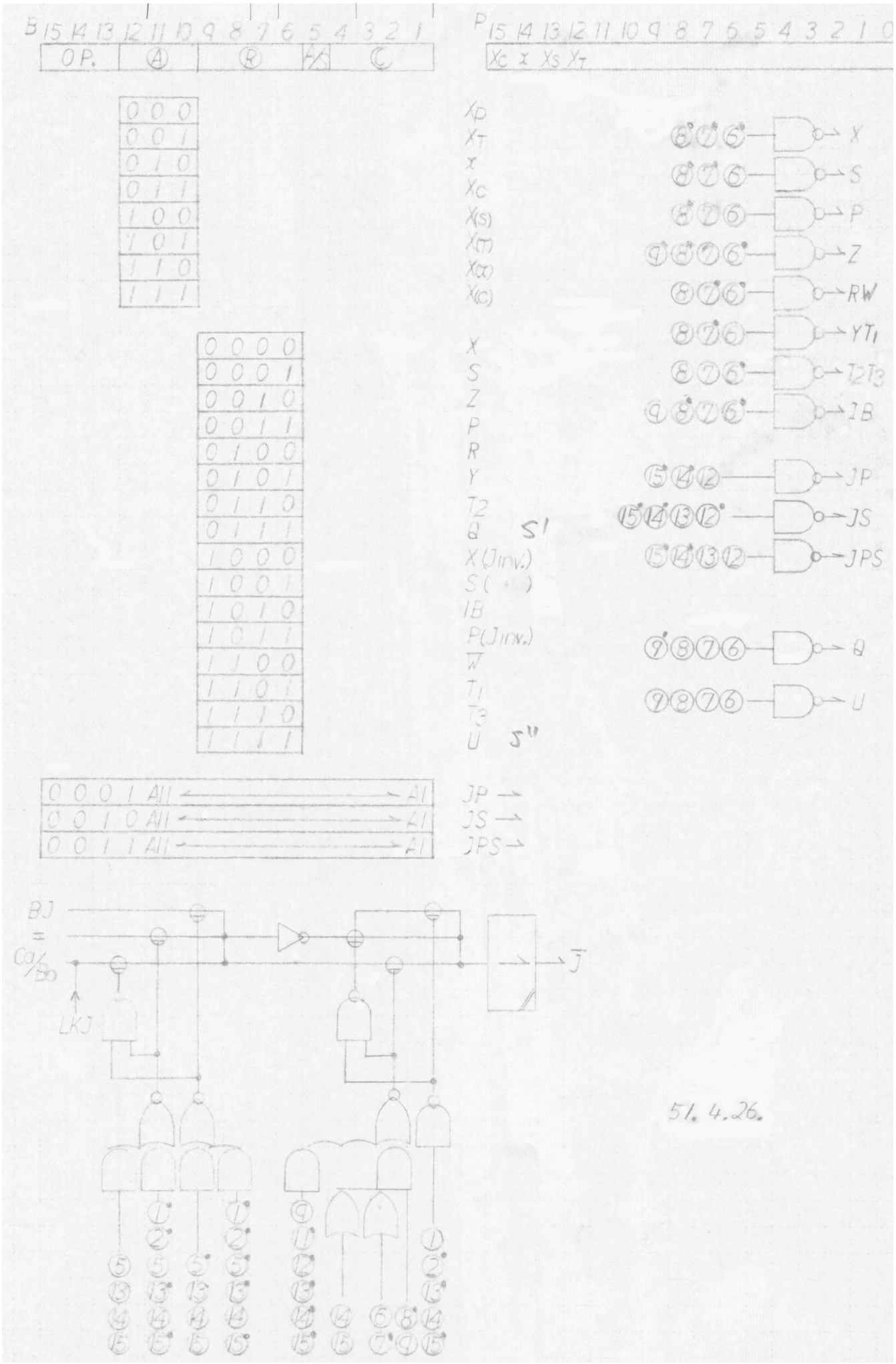
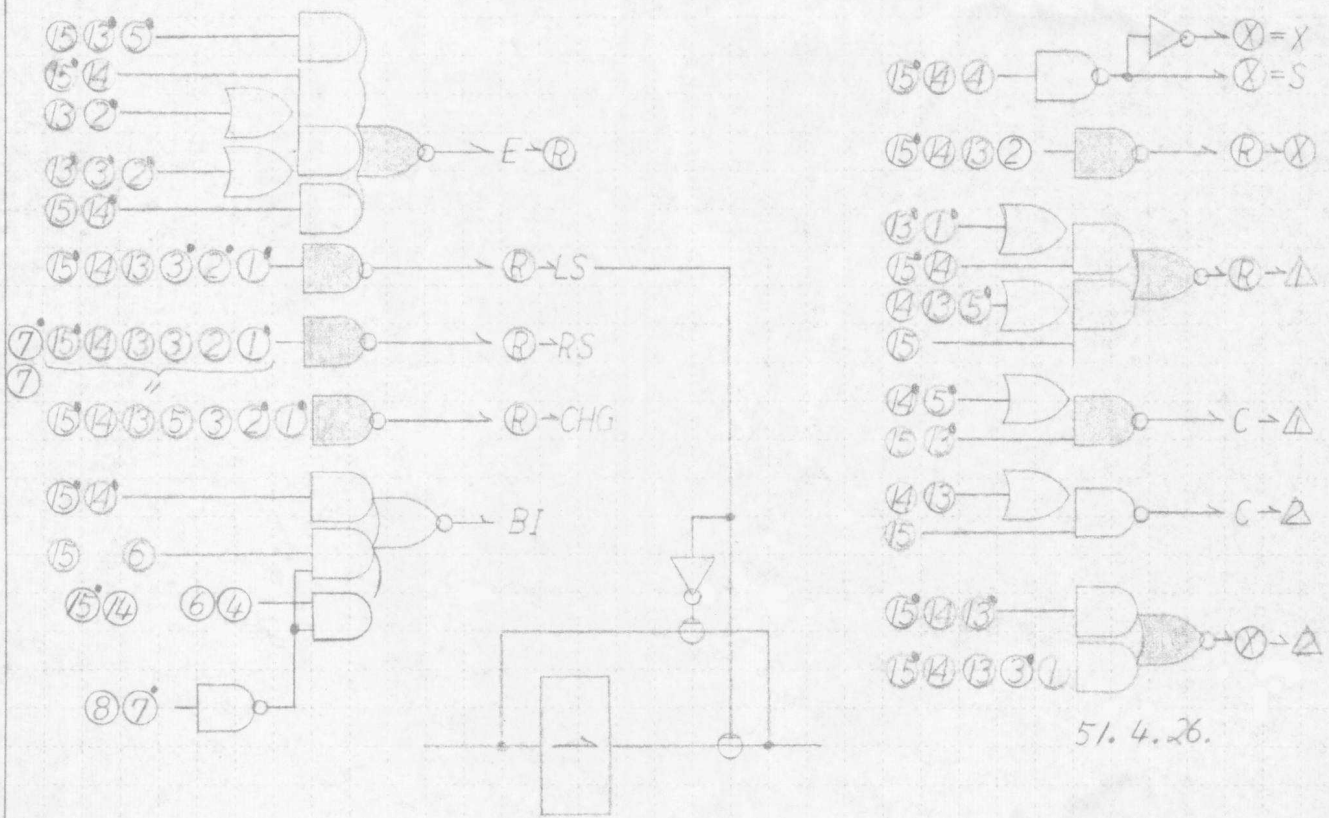
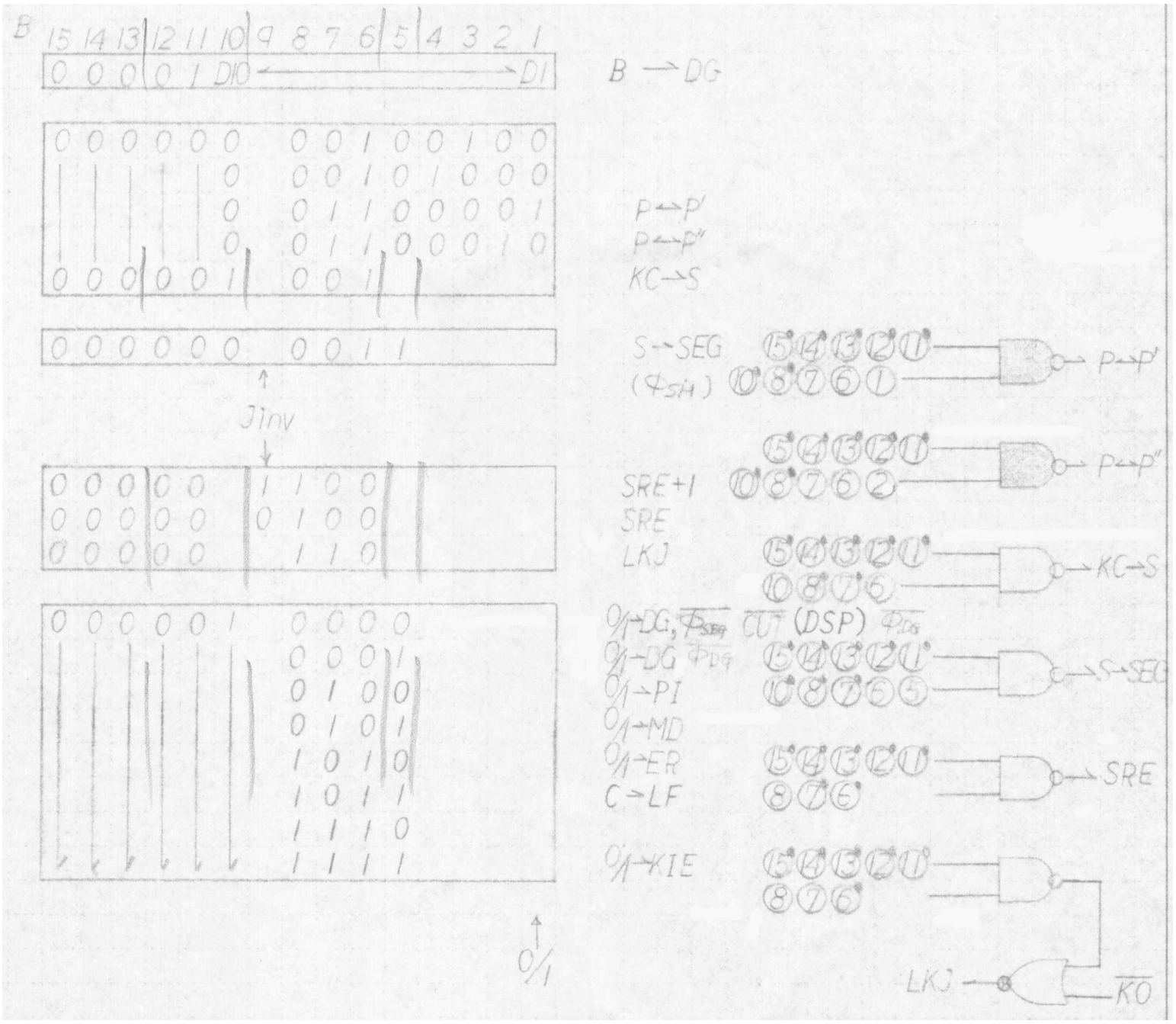

S10
DG13
DG6
5.8
x 6.2
S20
SLO
MD
VCC
VDD
CR
P=ACL
ER
CH
DG5
DG1
GND
MG10
MG6
ROM
A.R.
Reg.
T.C.
CH.G.
K0
K4
MG1
MG5


B 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
OP.
A
R
A
C
P 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
Xc x Xs XT
0 0 0
0 0 1
0 1 0
0 1 1
1 0 0
1 0 1
1 1 0
1 1 1
XP
XT
x
Xc
X(s)
X(T)
X(x)
X(c)
0 0 0 0
0 0 0 1
0 0 1 0
0 0 1 1
0 1 0 0
0 1 0 1
0 1 1 0
0 1 1 1
1 0 0 0
1 0 0 1
1 0 1 0
1 0 1 1
1 1 0 0
1 1 0 1
1 1 1 0
1 1 1 1
X
S
Z
P
R
Y
T2
Q S'
X (Jinv.)
S (")
IB
P(Jinv.)
W
T1
T3
U S''
X
S
Z
P
RW
YT1
T2T3
IB
JP
JS
JPS
Q
U
0 0 0 1 AII
0 0 1 0 AII
0 0 1 1 AII
AI
AI
AI
JP
JS
JPS
BJ
=
Ca/Ba
LKJ
J
51. 4. 26.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		R→X	R→Δ	C→Δ	C→Δ	X→Δ	E→R
1	0	0								0					C→R		○	○			○
1	0	0								1					C→R			○			○
1	0	1								0					R-C→R		○		○		○
1	0	1								1					R+C→R		○		○		○
1	1	0								0					C→R		○	○	○		○
1	1	0								1					R+C		○		○		
1	1	1								0					R-C (=J)		○		○		
1	1	1								1					R+C (BJ)		○		○		
0	1	0								0			0	0	R-X→R		○			○	○
0	1	0								1			0	0	R+X→R		○			○	○
0	1	0								0			0	1	R-X→R		○			○	○
0	1	0								1			0	1	R+X→R		○			○	○
0	1	0								0			1	0	R-X (=J)		○			○	
0	1	0								1			1	0	R+X (BJ)		○			○	
0	1	0								0			1	1	R-X		○			○	
0	1	0								1			1	1	R+X		○			○	
0	1	1								1		0	0	0	R→LS		○				○
0	1	1								1		0	0	1	X→R,X					○	○
0	1	1								1		0	1	0	R→X,R	○	○				○
0	1	1								1		0	1	1	R←X	○				○	○
0	1	1								1		1	0	0	R→CHG		○				○
0	1	1								1		1	0	1							○
0	1	1								1		1	1	0	X→RS	○	○				
0	1	1								1		1	1	1	R→X,0→R	○					



51. 4. 26.


B
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
0 0 0 0 1 D10 D1
B → DG
P ↔ P'
P ↔ P''
KC → S
S → SEG
(φSH)
P ↔ P'
P ↔ P''
SRE+1
SRE
LKJ
KC → S
0/1 → DG, φSEG CUT (DSP) φDG
0/1 → DG φDG
0/1 → PI
0/1 → MD
0/1 → ER
C → LF
S → SEG
SRE
0/1 → KIE
LKJ
KO
Jinv
0/1

0 1 2 3 4 5 6 7 8 9 A B C D E F ← レジスタ内容

0	1	2	3	4	5	6	7	8	9	•	−	+	2	C	
A	D	E	F	H	I	M	N	Ō	R	S	T	U	W	Y	

0	1	2	3	4	5	6	7	8	9	•	−	+	T+		
A	D	E	F	H	I	M	N	Ō	R	S	T	U	W		

↑	↓	X	÷	Δ	=	T+	P	%	K	V	#	+	Y	2	3
↑	↓	X	÷	Δ	=	%	K	#	B	(N)	+K	T+1			
											Y	A	T+2		
													T+3		

R Reg.

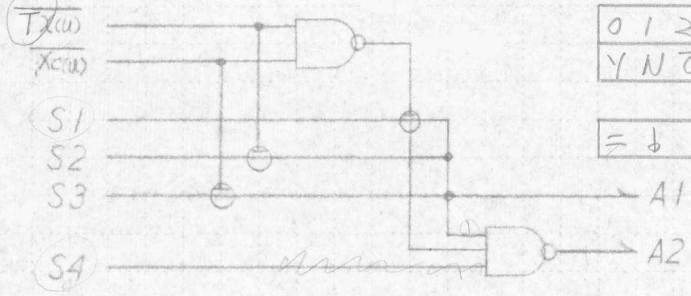
↑	↓	X	÷	Δ	=	%	K	#	(M)	T+	D	Y	B		

W Reg.

must be same code

RC	r	RS	RT		
C2	C1	LSD	#	ラウンド・データ	MSD

C3



0	1	2	3	4	5	6	7	8	9	•	+	−	T+		−
Y	N	Ō	D	U	I	E	A	H	M	R	W	T	F		S
=	↓				↑		(B)	X	÷	(M)	(M)	T+	(%)		#

B　ΔM　%　R

A = (B)

T = T+ 6 CHG

KEY 3 度 6/3

(B) R(C)→CHG　12→P　(W)→CHG

↑	↑	S1=0/1

S2=0/1

S3=0/1

S4=0/1

S1=0/1

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Y	N	Ō	D	U	I	E	A	H	M	R	W	T	F	S	
0	1	2	3	4	5	6	7	8	9	•	(C)	−	T	(N)	
X	÷	M	Δ	=	+	−	B	K	R	↑	↓	T+	#	%	
X	÷	M	Δ	=	+	−	(B)	R	(R)	↑	↓	#	T+	%	
X	÷	Δ	M	=	%	+		−	↑	↓	#		R		

latest →

(プレスカード)

○ ↑ ↓ ～ # + のシンボルを使用する場合は S4=1

○ 数字桁に ~~A D ～ W Y~~ の AD～WY 〃 S1=1

〃 ~~0 1 ～ W Y~~ の 01～ 〃 S1=0

○ C1 に ~~0 1 ～ : C~~ の AD～WY 〃 S2=1

~~A D ～ W Y~~ の 01～ 〃 S2=0

↑ ↓ ～ # + の 〃 S2=1

○ C2 に ~~0 1 ～ : C~~ の AD～WY 〃 S3=1

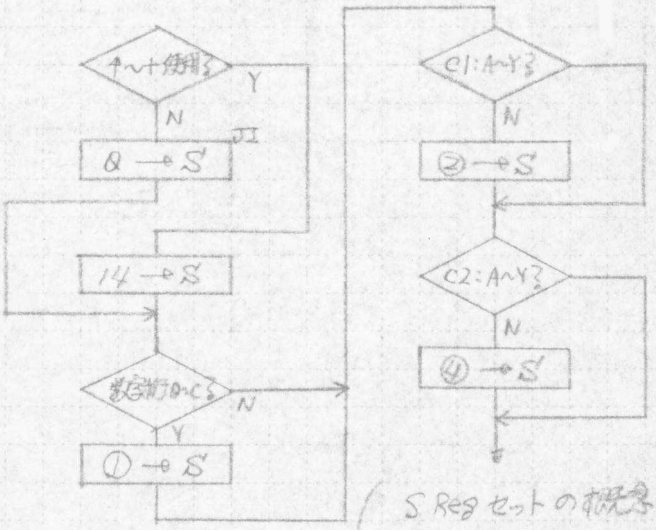
~~A D ～ W Y~~ の 01～ 〃 S3=0

↑ ↓ ～ # + の 〃 S3=1

の組合せ不可

	A1	A2
0 1 ～ : C →	1	1
A D ～ W Y →	0	1
↑ ↓ ～ # + →	0	0

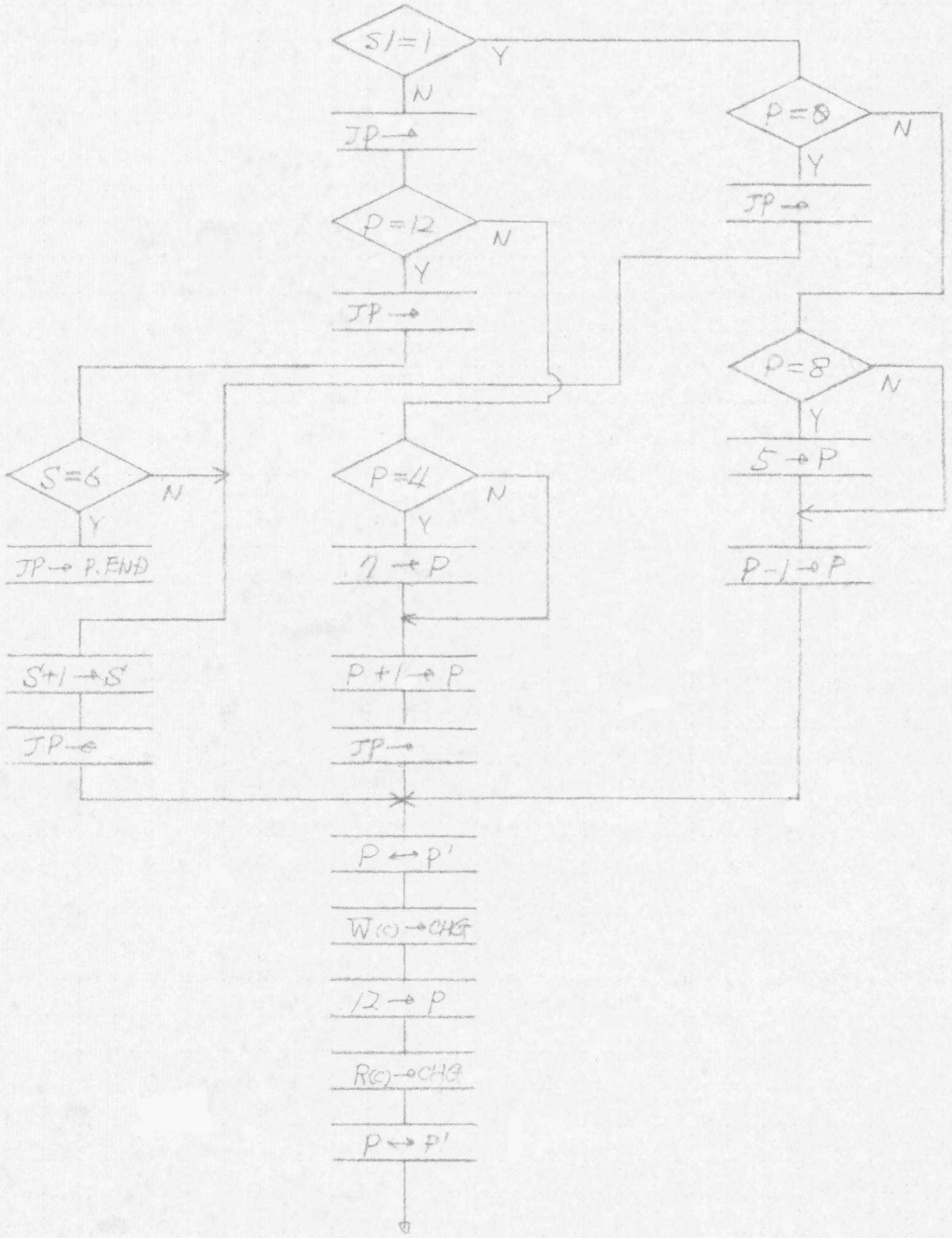
4～12

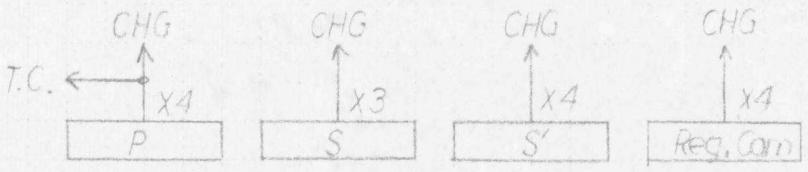


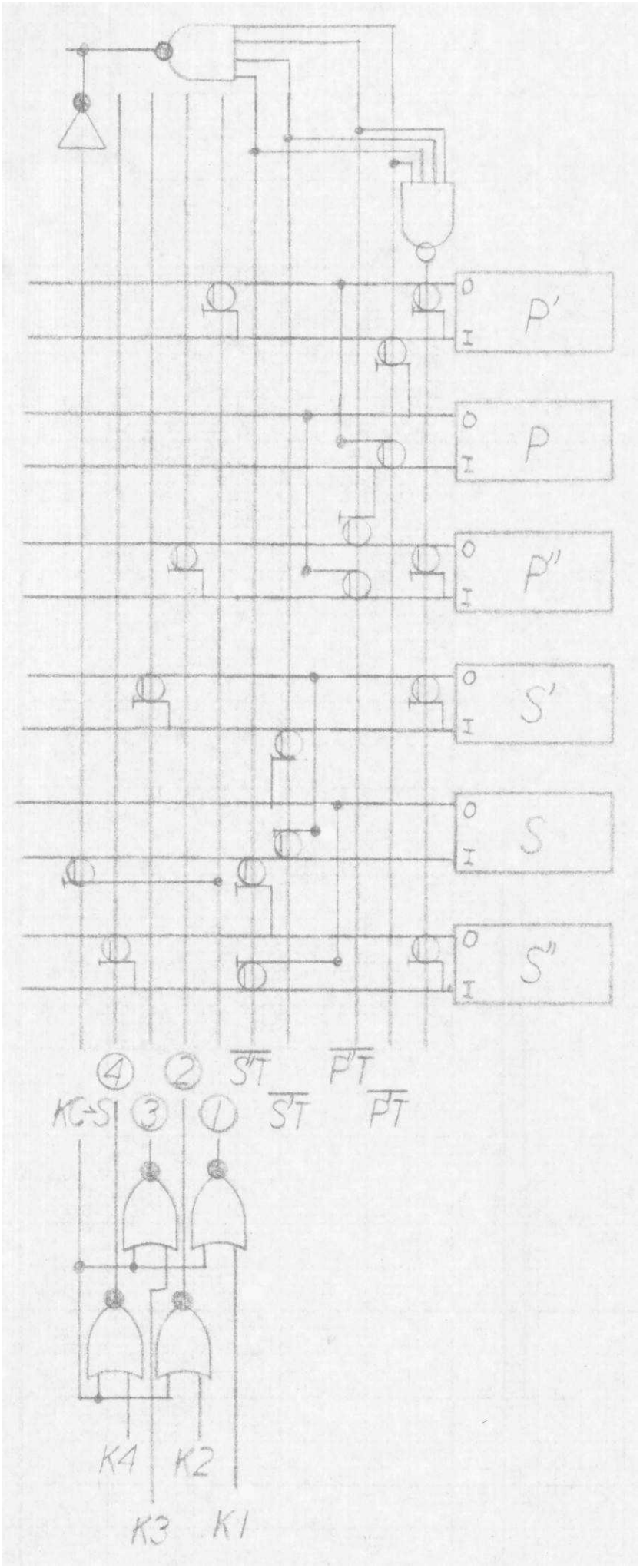
(S Reg セットの概念フローチャート)

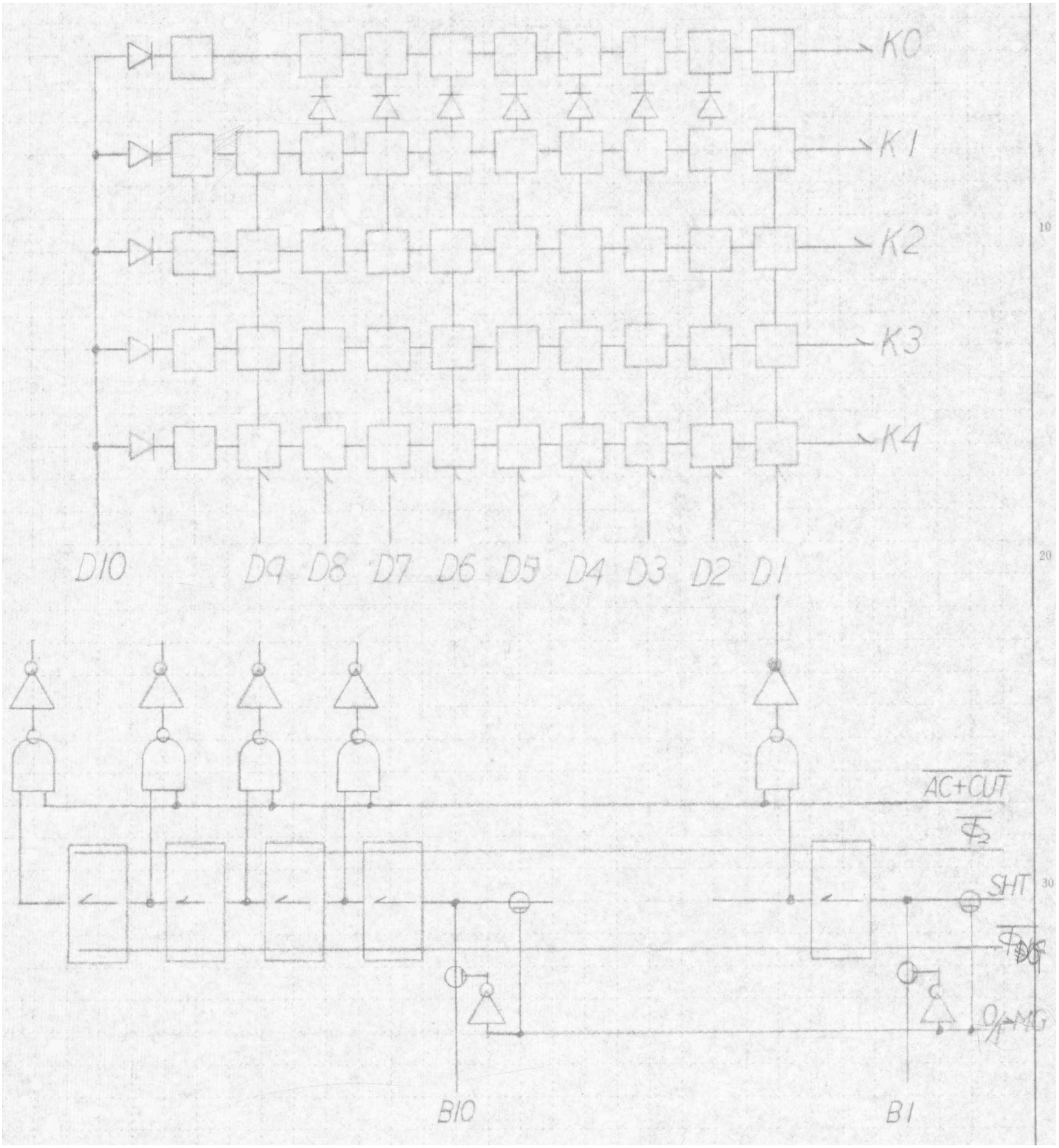
S'' \ P''	1100	1101	1010	1011	1001	0100	0101	0110	0111	0000
0000	○	○	○	○	○	○	○	○	○	○
0001	○									○
0010	○									○
0011	○									○
0100	○									○
0101	○									○
0110	○	○	○	○	○	○	○	○	○	○
	○									

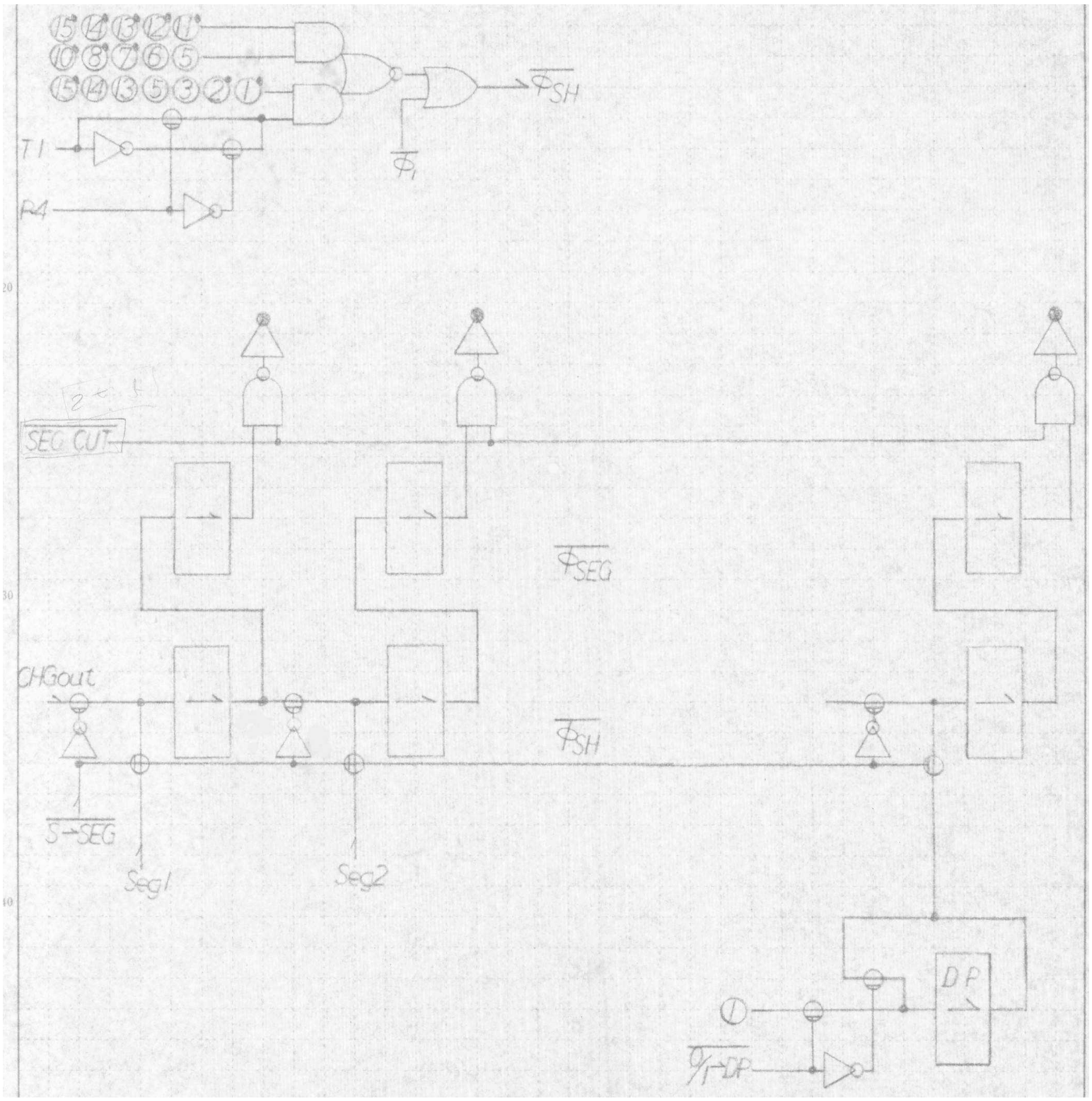
S' Reg にシンボル選択データ
(S10, S20 入口に対して不変)

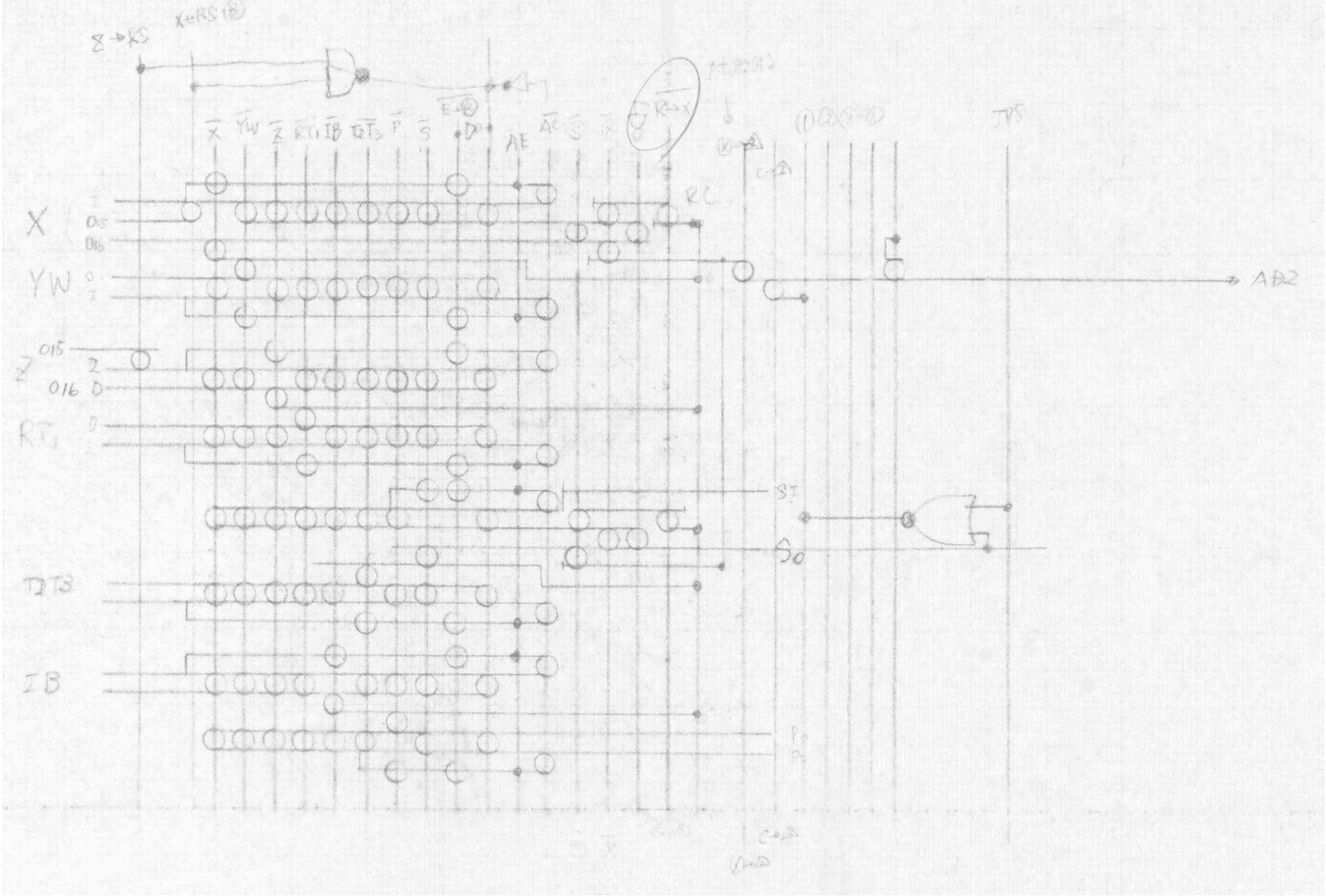


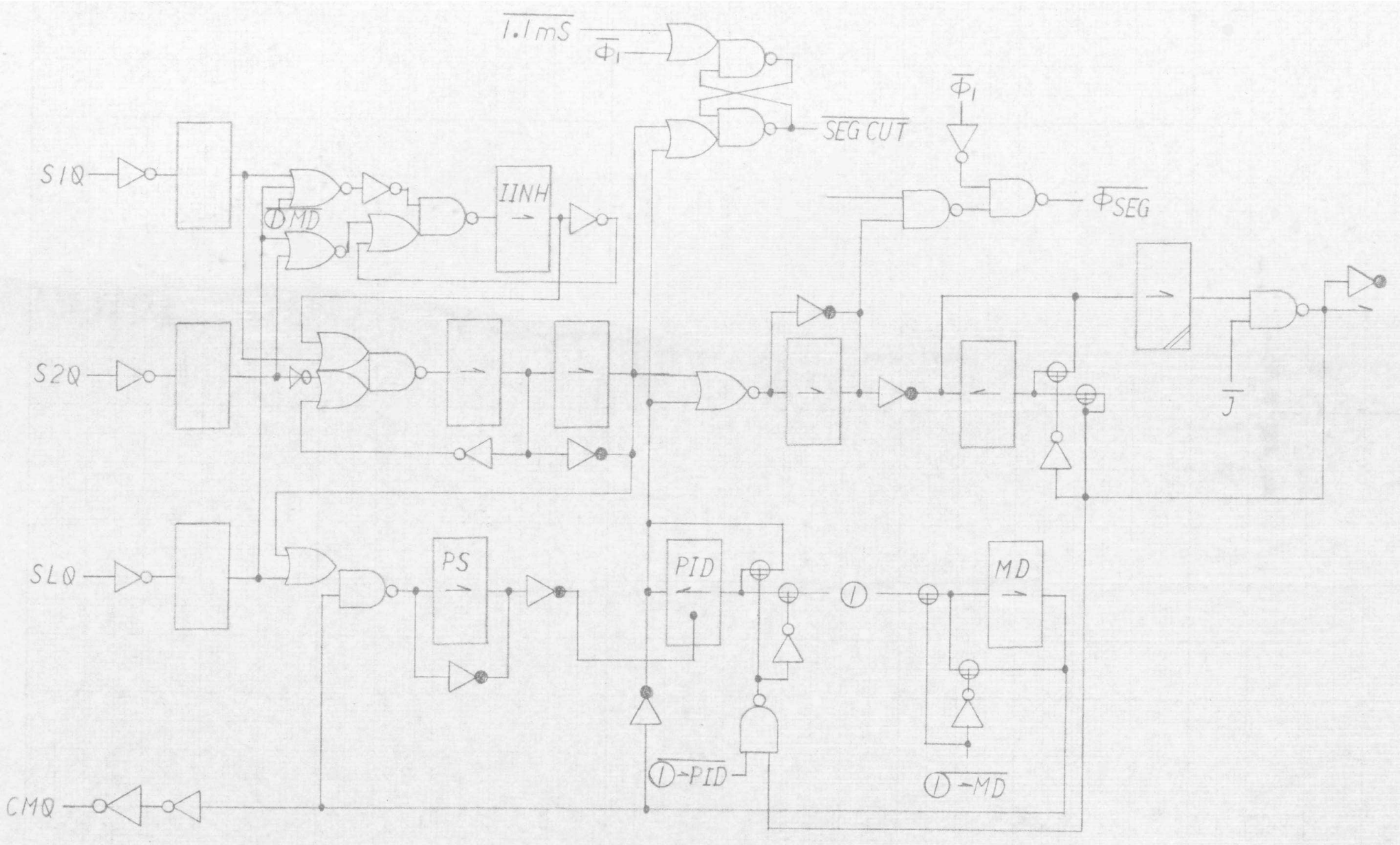


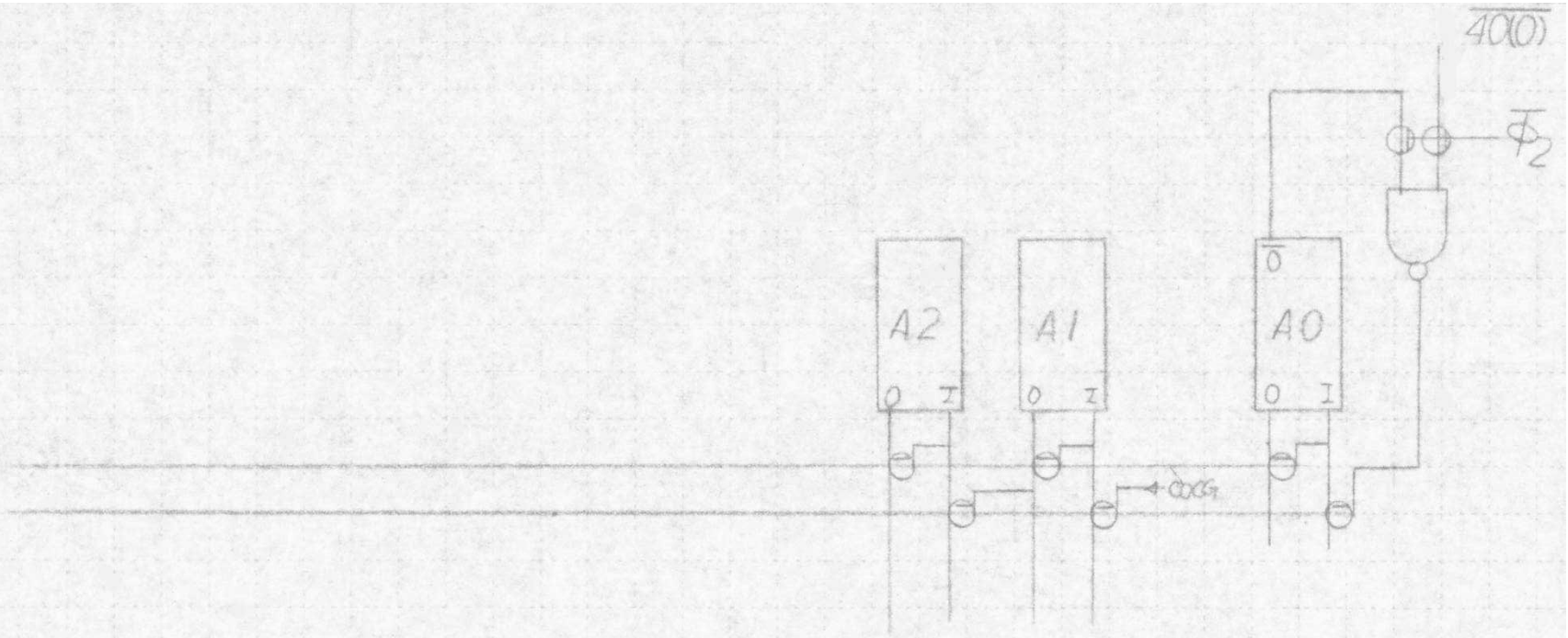

P'
P
P''
S'
S
S''
0
I
4
2
$\overline{S''T}$
$\overline{P''T}$
KC-S
3
1
$\overline{S'T}$
$\overline{P'T}$
K4
K2
K3
K1

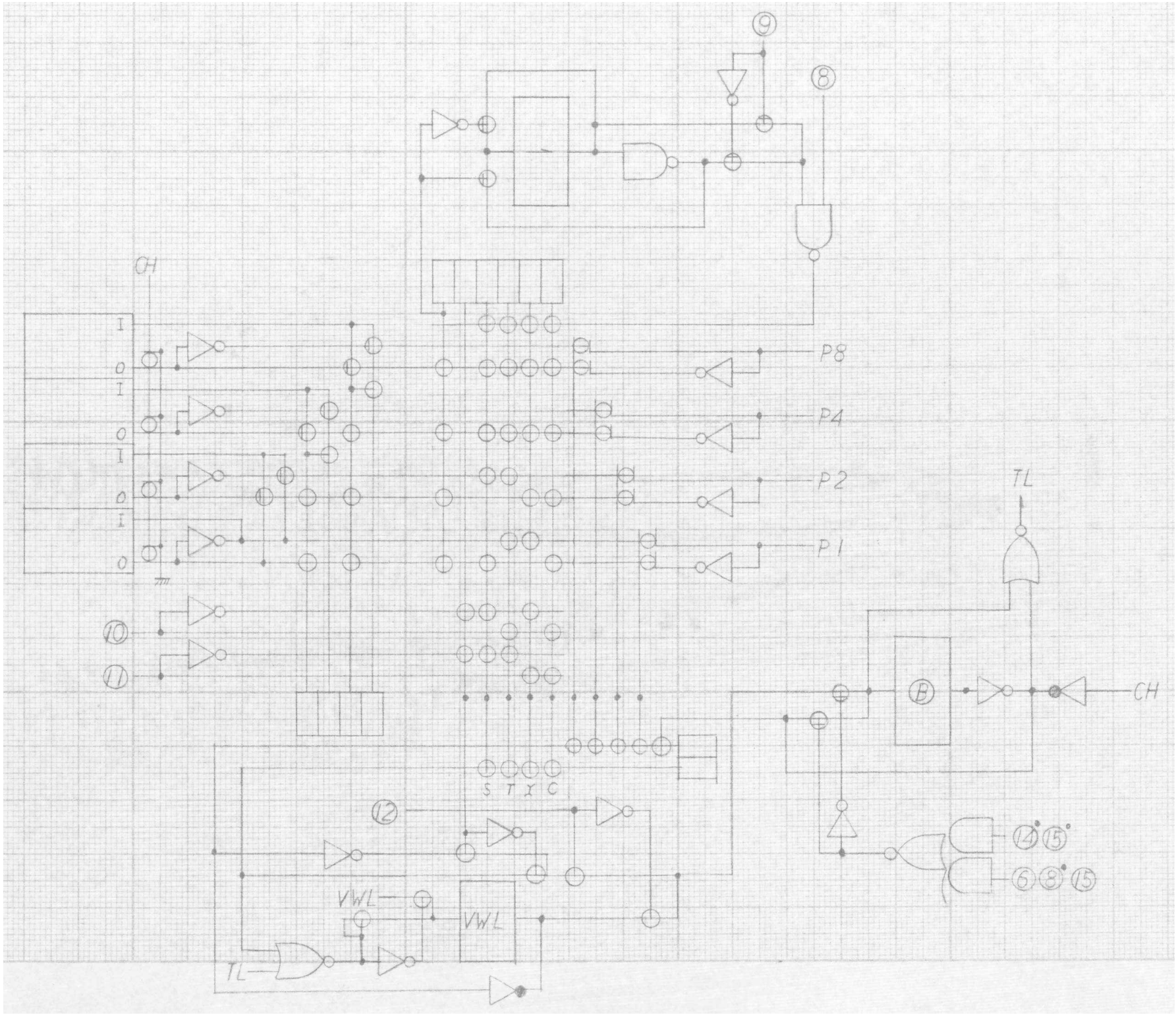

K0
K1
K2
K3
K4
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
AC+CUT
SHT
B10
B1

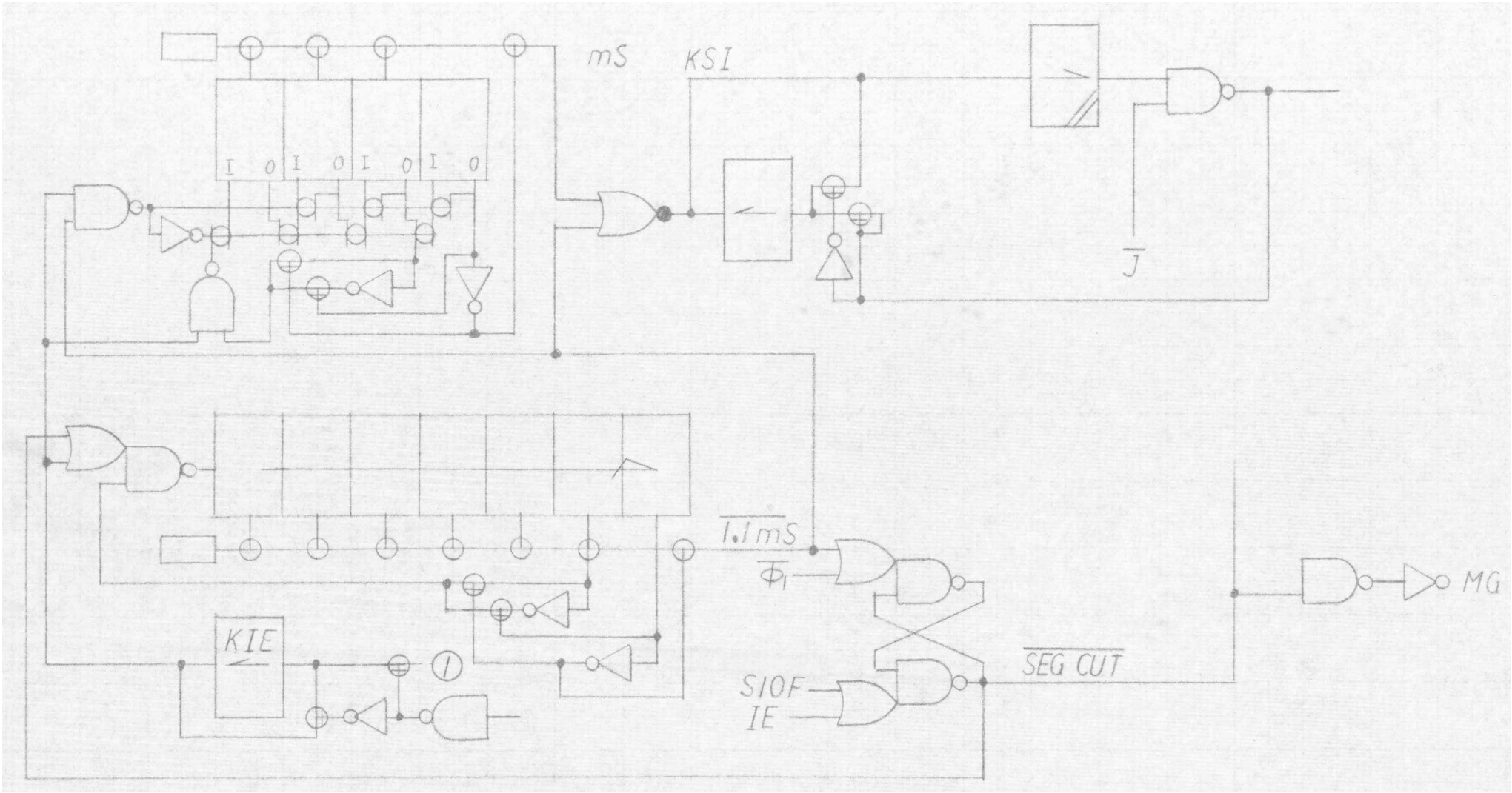

15 14 13 12 11
10 8 7 6 5
15 14 13 5 3 2 1
$\overline{\Phi_{SH}}$
T1
R4
$\overline{\Phi_1}$
2 ← 4
SEG CUT
$\overline{\Phi_{SEG}}$
CHGout
$\overline{\Phi_{SH}}$
$\overline{S \to SEG}$
Seg1
Seg2
DP
1
$\overline{\Phi_1 \to DP}$

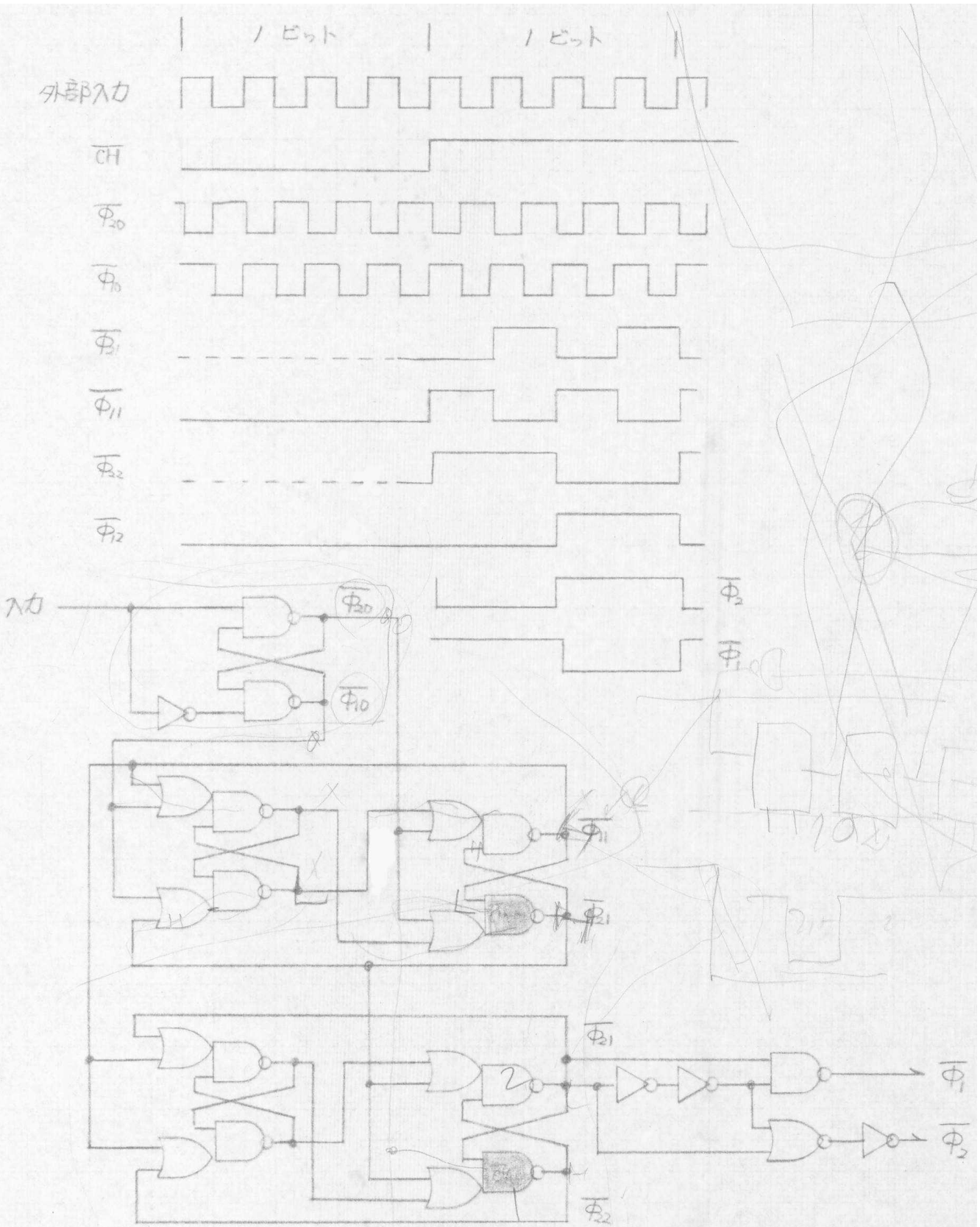

X
YW
Z
RT1
TQT3
IB
AE
RC
ST
JPS
ADR

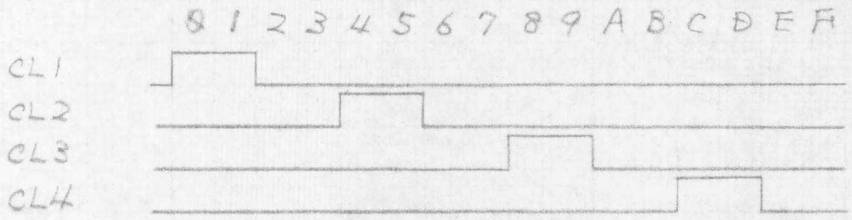

1.1mS
Φ1
SEG CUT
Φ1
ΦSEG
S1Q
ΦMD
IINH
S2Q
J
SLQ
PS
PID
MD
Φ-PID
Φ-MD
CMQ

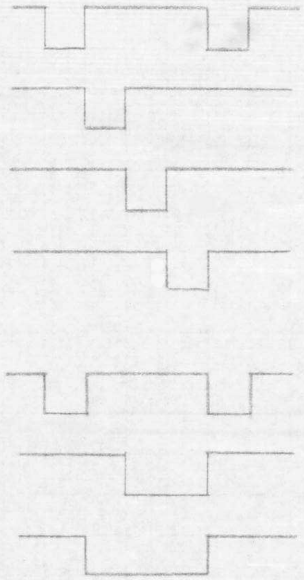

40(0)
$\overline{\Phi_2}$
A2
A1
A0
O
I
O
I
O
I
$\overline{O}$
$\overline{OCG}$

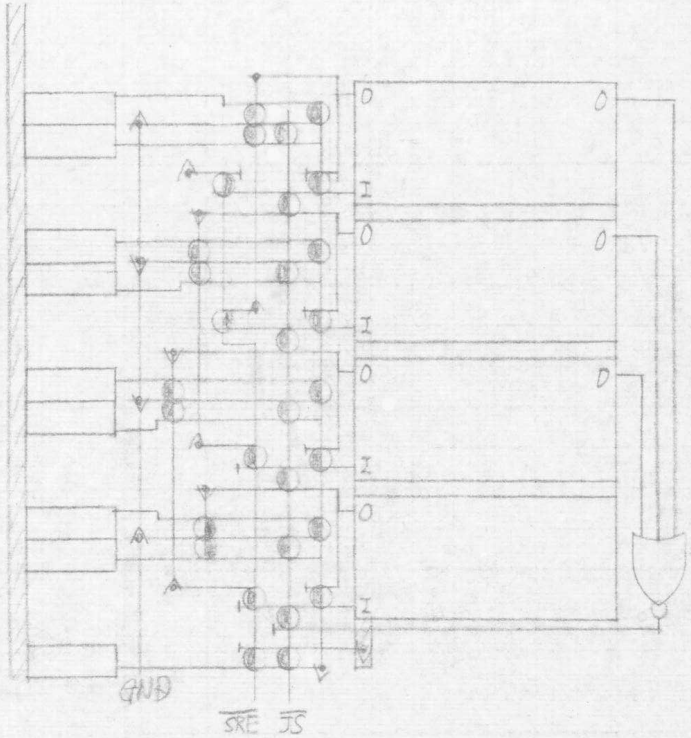

9
8
CH
I
0
I
0
I
0
I
0
P8
P4
P2
P1
TL
10
11
B
CH
S T X C
12
14 15
6 8 15
VWL
VWL
TL

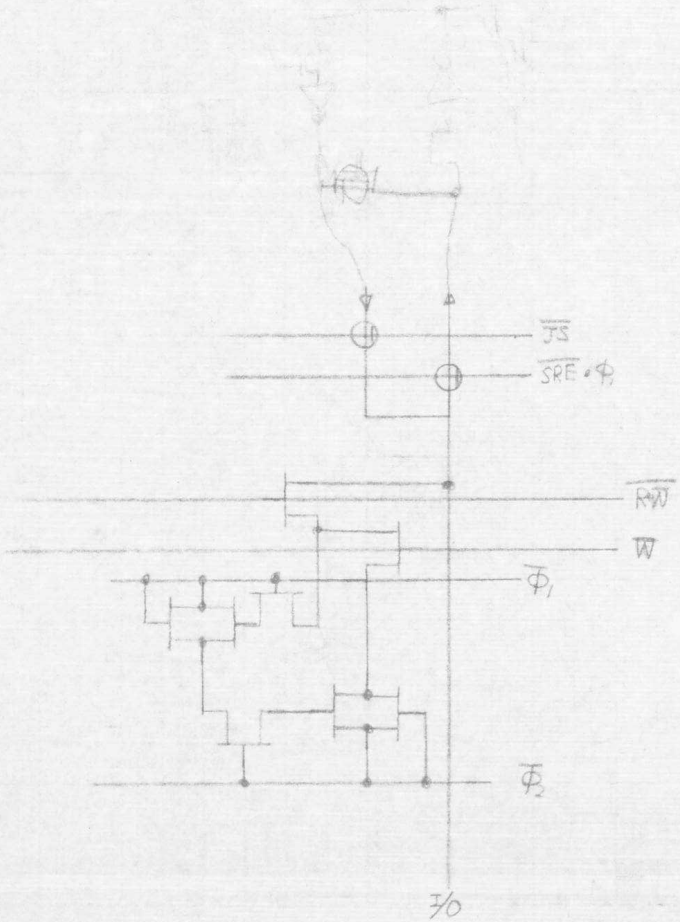

mS
KSI
I 0 I 0 I 0 I 0
J
1.1 mS
Φ1
KIE
1
SIOF
IE
SEG CUT
MG

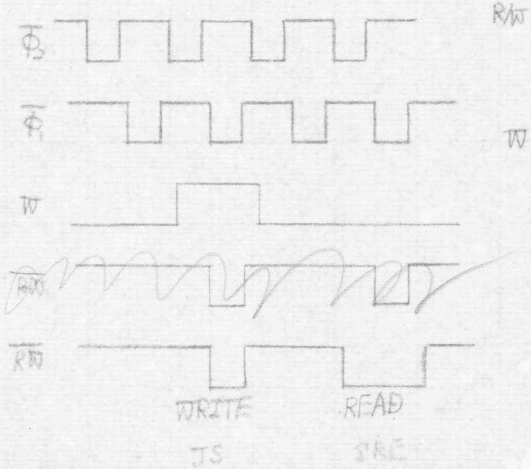

1ビット
1ビット
外部入力
$\overline{CH}$
$\overline{\Phi_{20}}$
$\overline{\Phi_{10}}$
$\overline{\Phi_{21}}$
$\overline{\Phi_{11}}$
$\overline{\Phi_{22}}$
$\overline{\Phi_{12}}$
入力
$\overline{\Phi_{20}}$
$\overline{\Phi_{10}}$
$\overline{\Phi_2}$
$\overline{\Phi_1}$
$\overline{\Phi_{11}}$
$\overline{\Phi_{21}}$
$\overline{\Phi_{21}}$
$\overline{\Phi_1}$
$\overline{\Phi_2}$
$\overline{\Phi_{22}}$

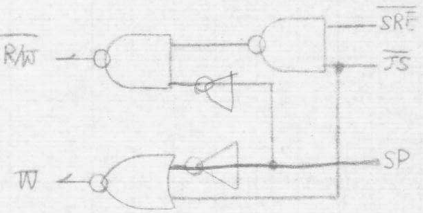

0 1 2 3 4 5 6 7 8 9 A B C D E F
CL1
CL2
CL3
CL4











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