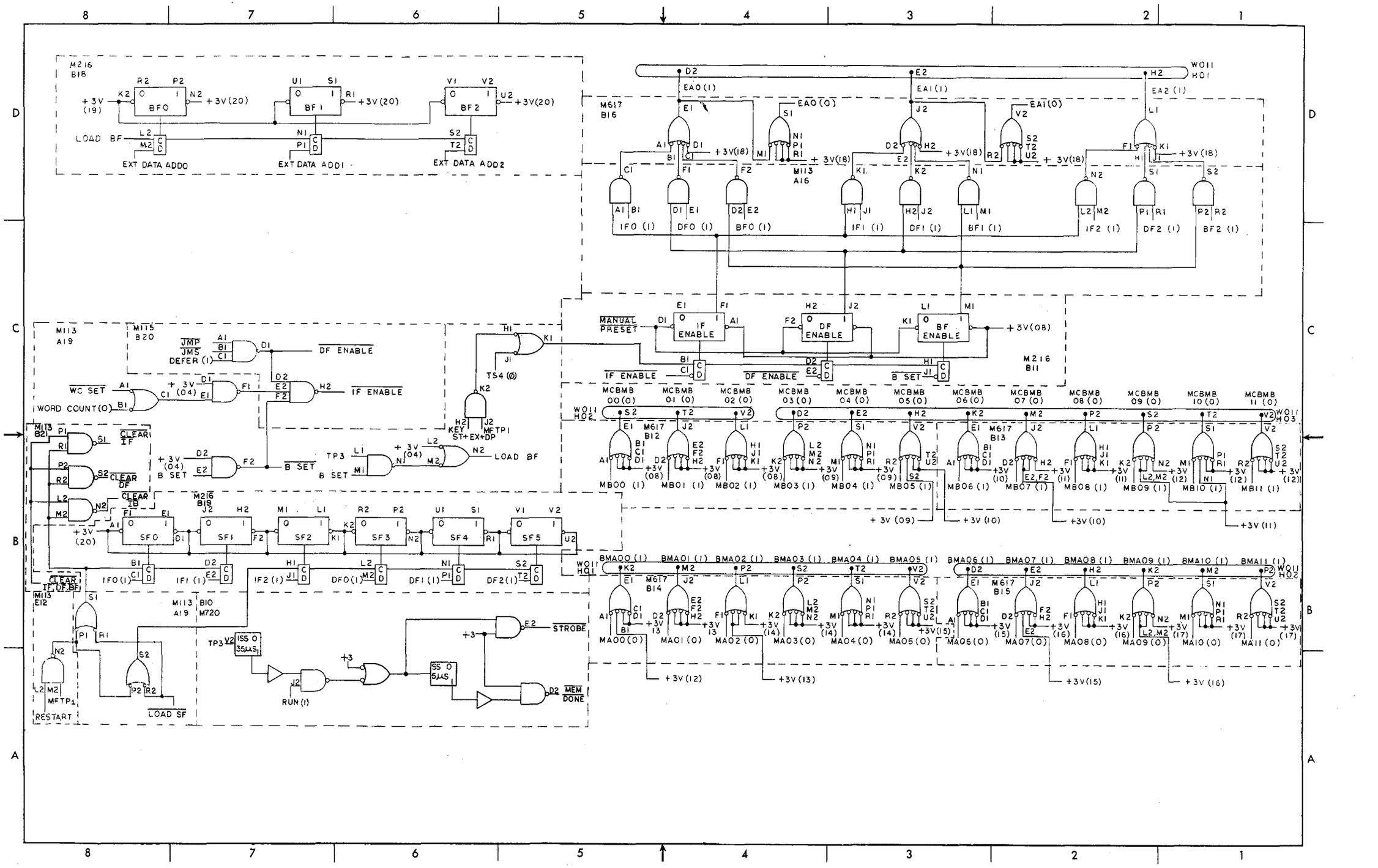
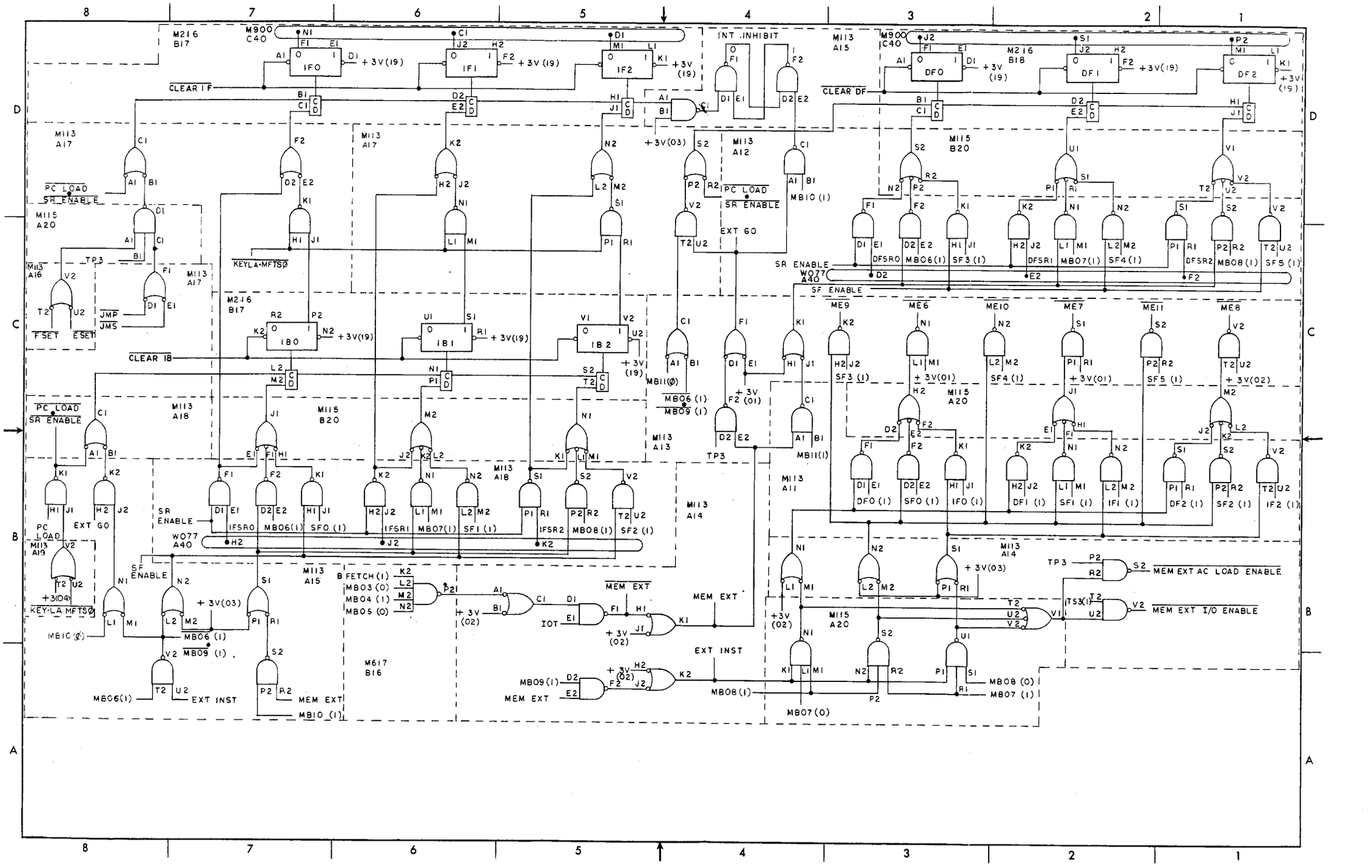
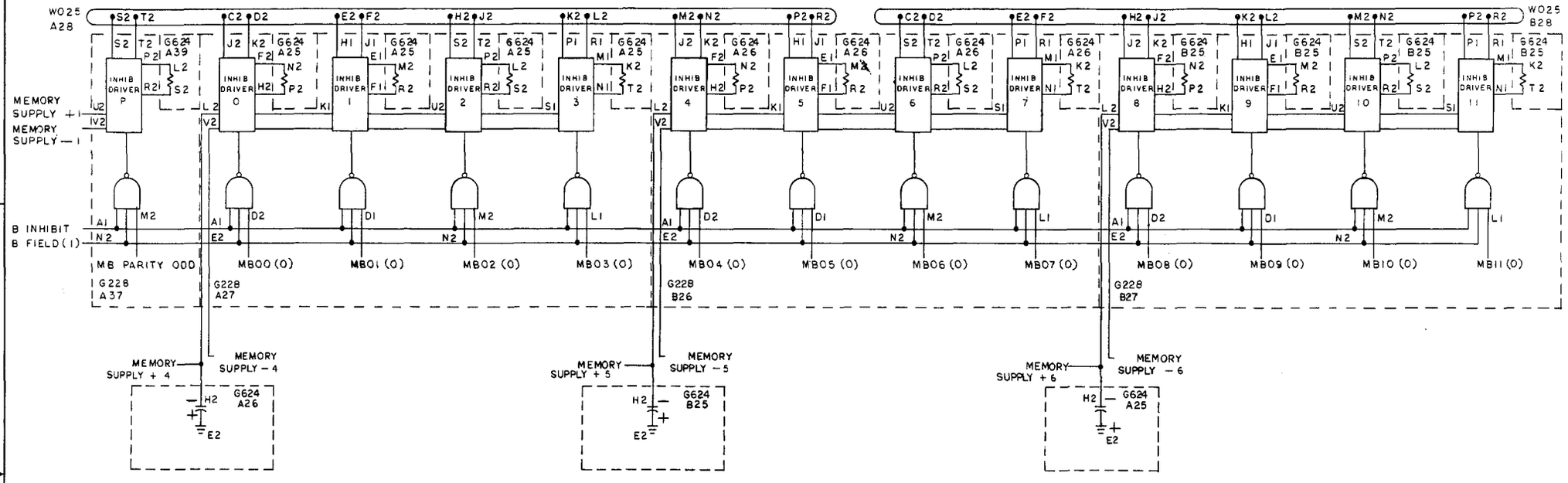


D-BS-MC8I-0-1 Memory Extension Control (Sheet 1)

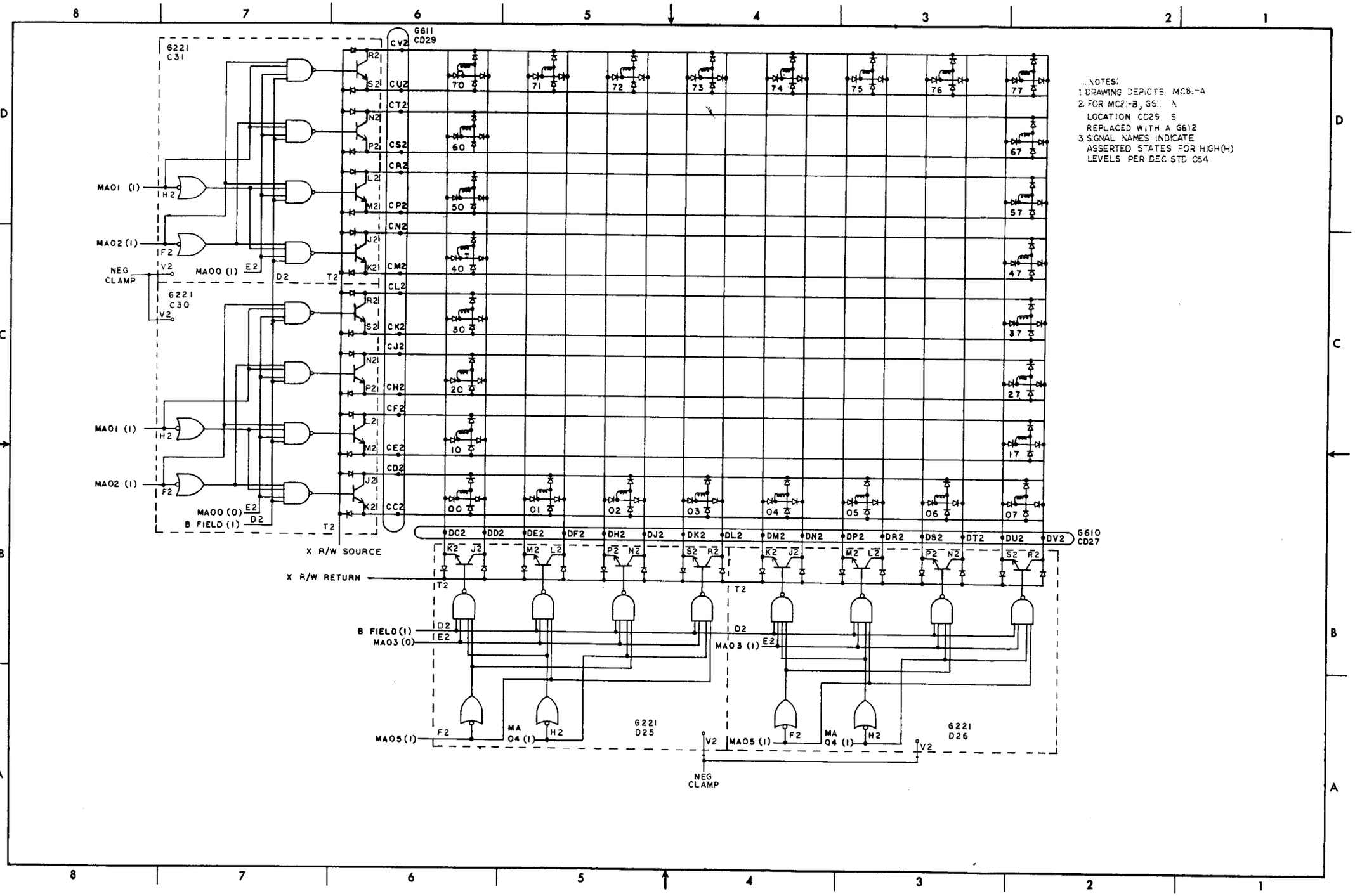


D-BS-MC8I-0-1 Memory Extension Control (Sheet 2)

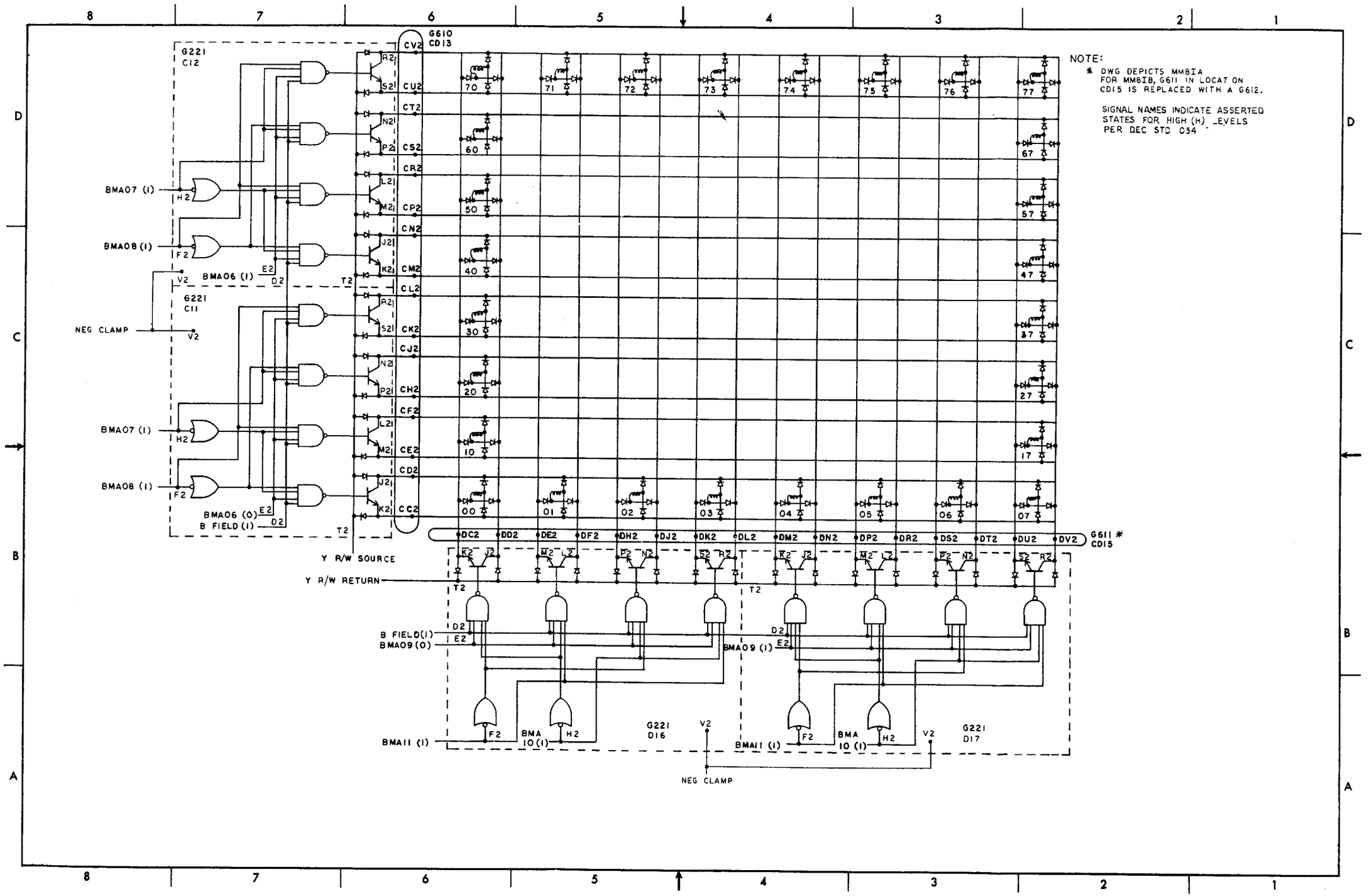


NOTES:
1. DRAWING DEPICTS MC81-B
2. FOR MC81-A REMOVE G228 IN LOCATION A37
3. SIGNAL NAMES INDICATE ASSERTED STATES FOR HIGH (H) LEVELS PER DEC STD 054

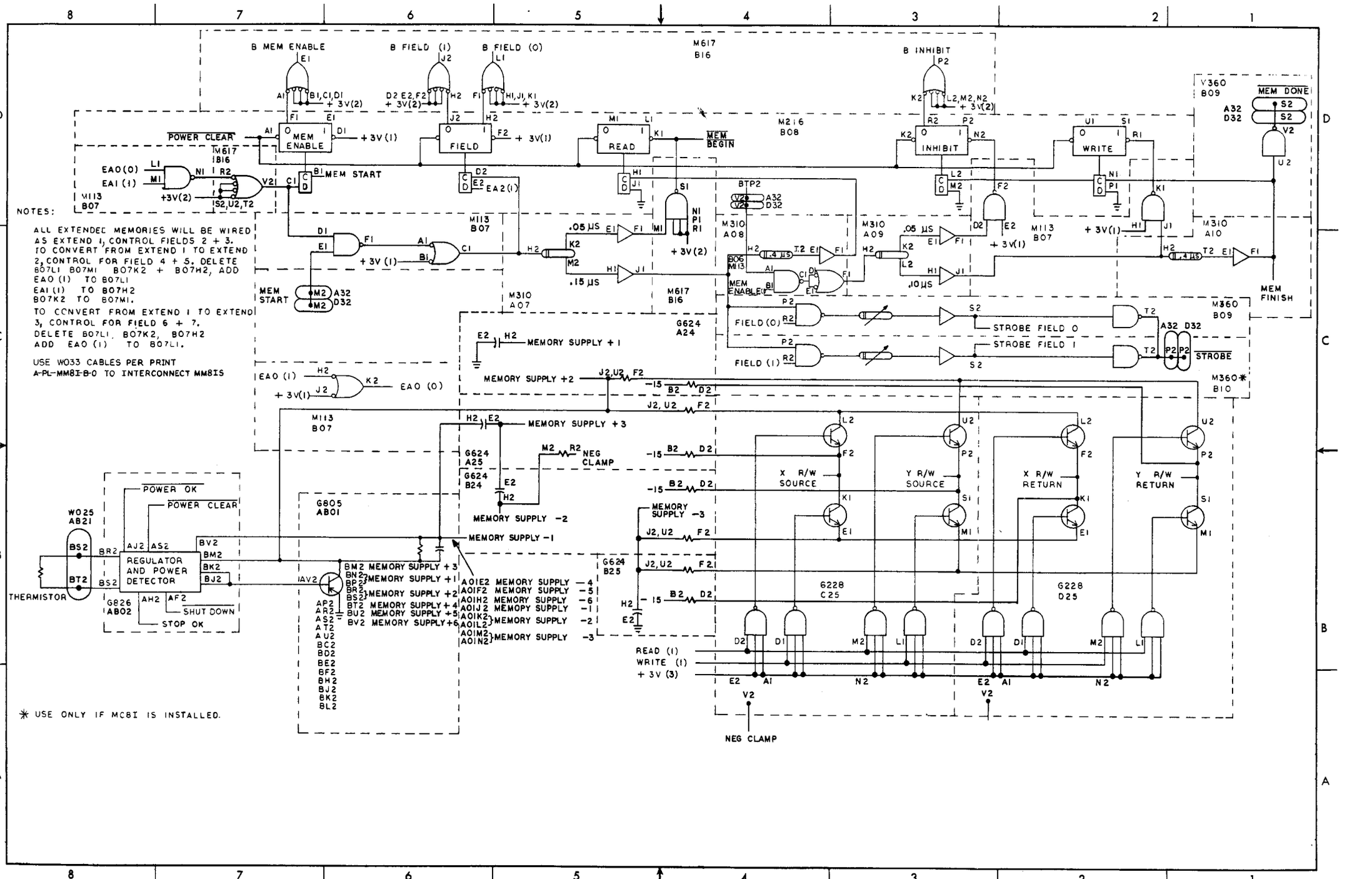
D-BS-MC81-0-2 Inhibit Drivers



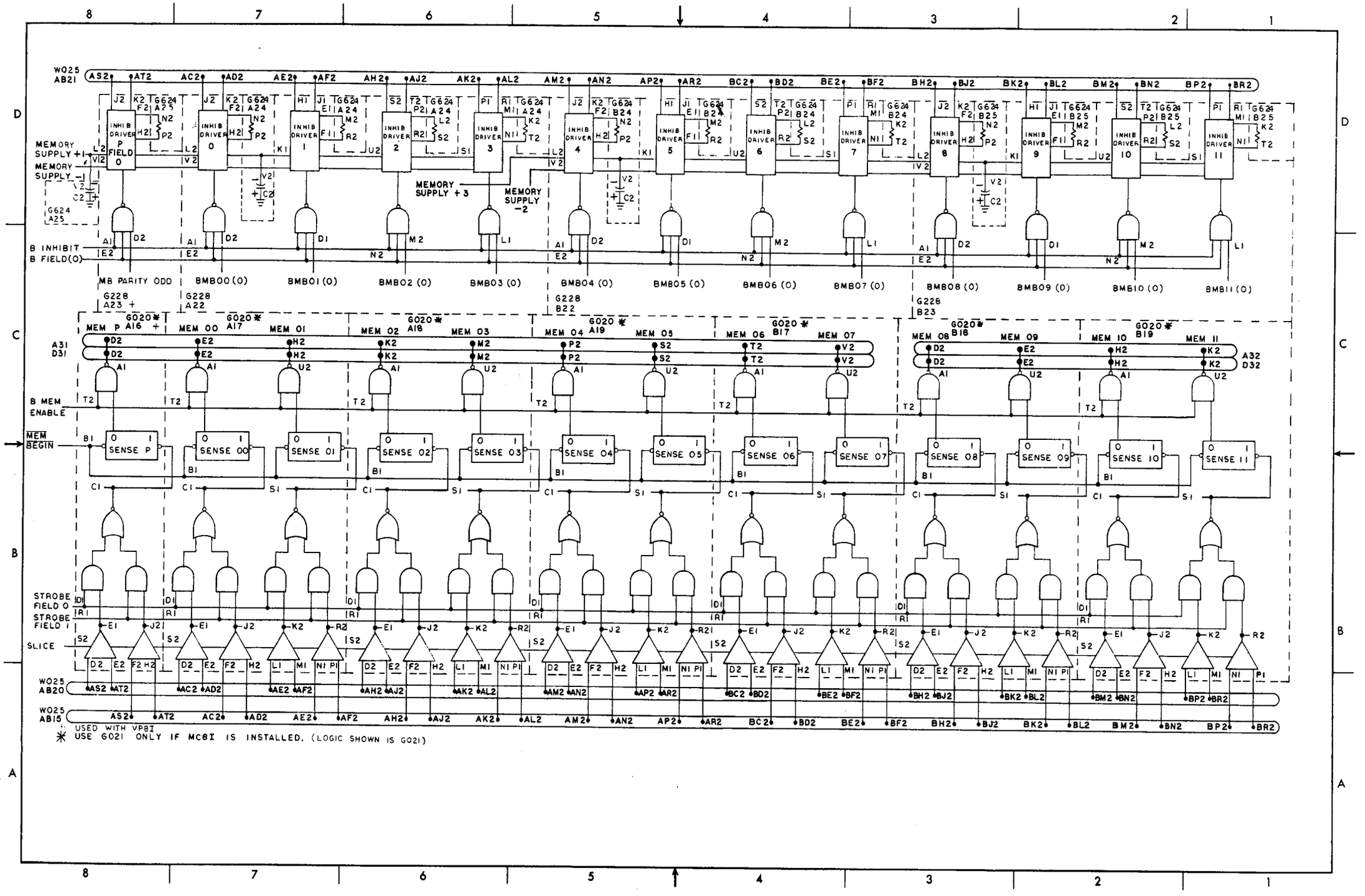
D-BS-MC8I-0-3 X Axis Selection



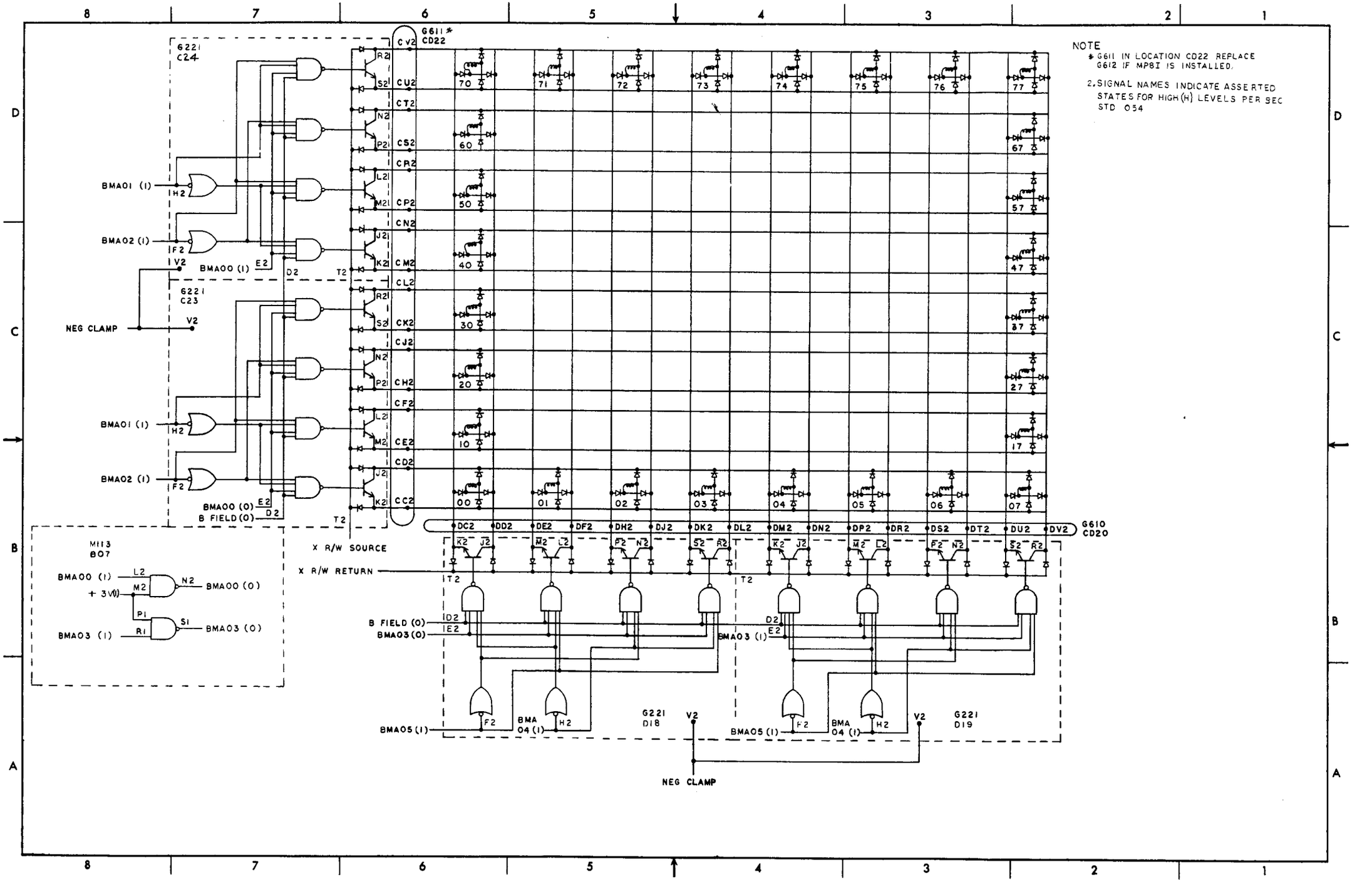
D-BS-MC8I-0-4 Y Axis Selection



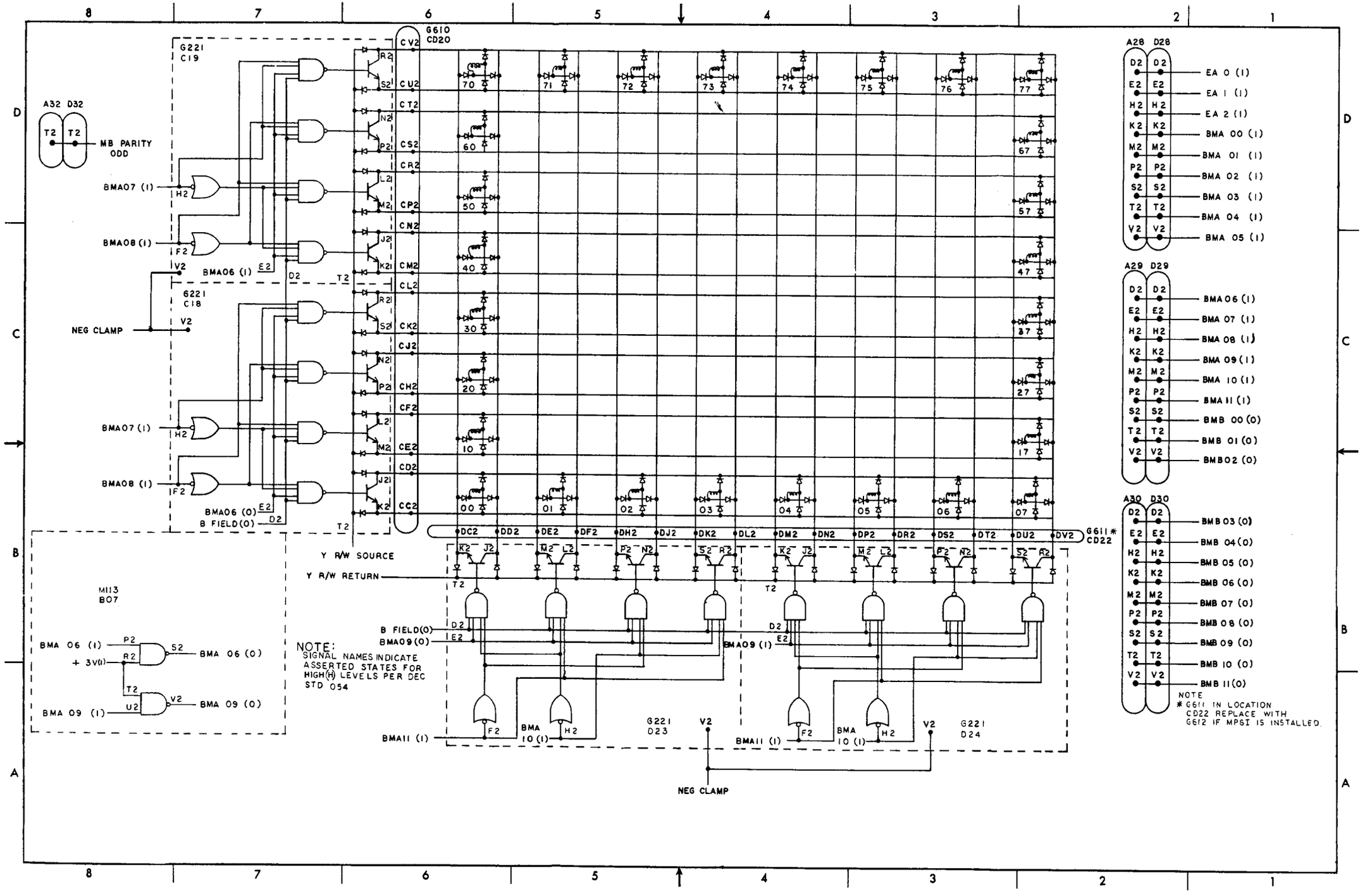
D-BS-MM8I-A-1 Memory Control



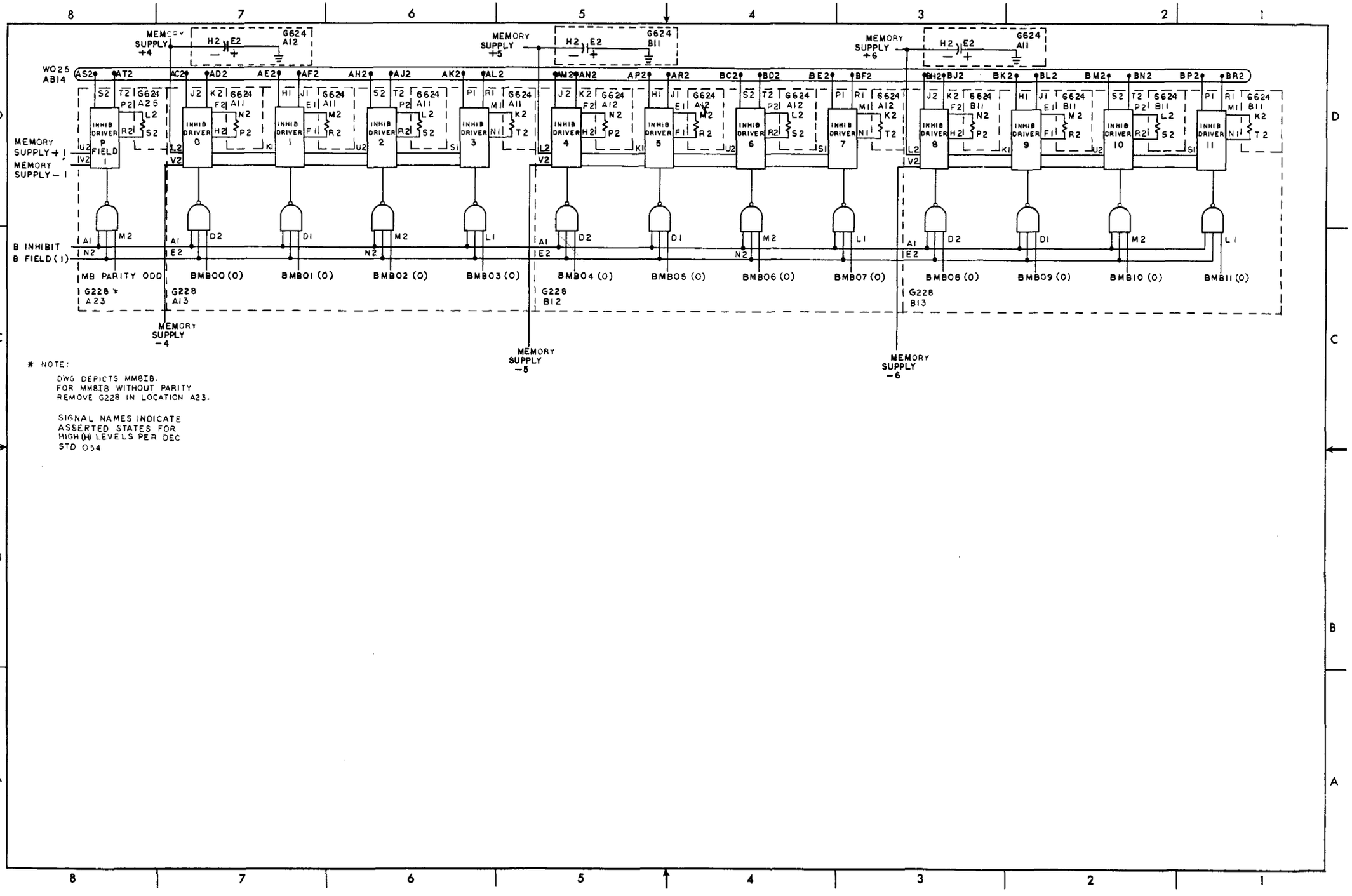
D-BS-MM8I-A-2 Sense Amplifiers and Inhibit Drivers



D-BS-MM8I-A-3 X Axis Selection, Field 0



D-BS-MM8I-A-4 Y Axis Selection, Field 0

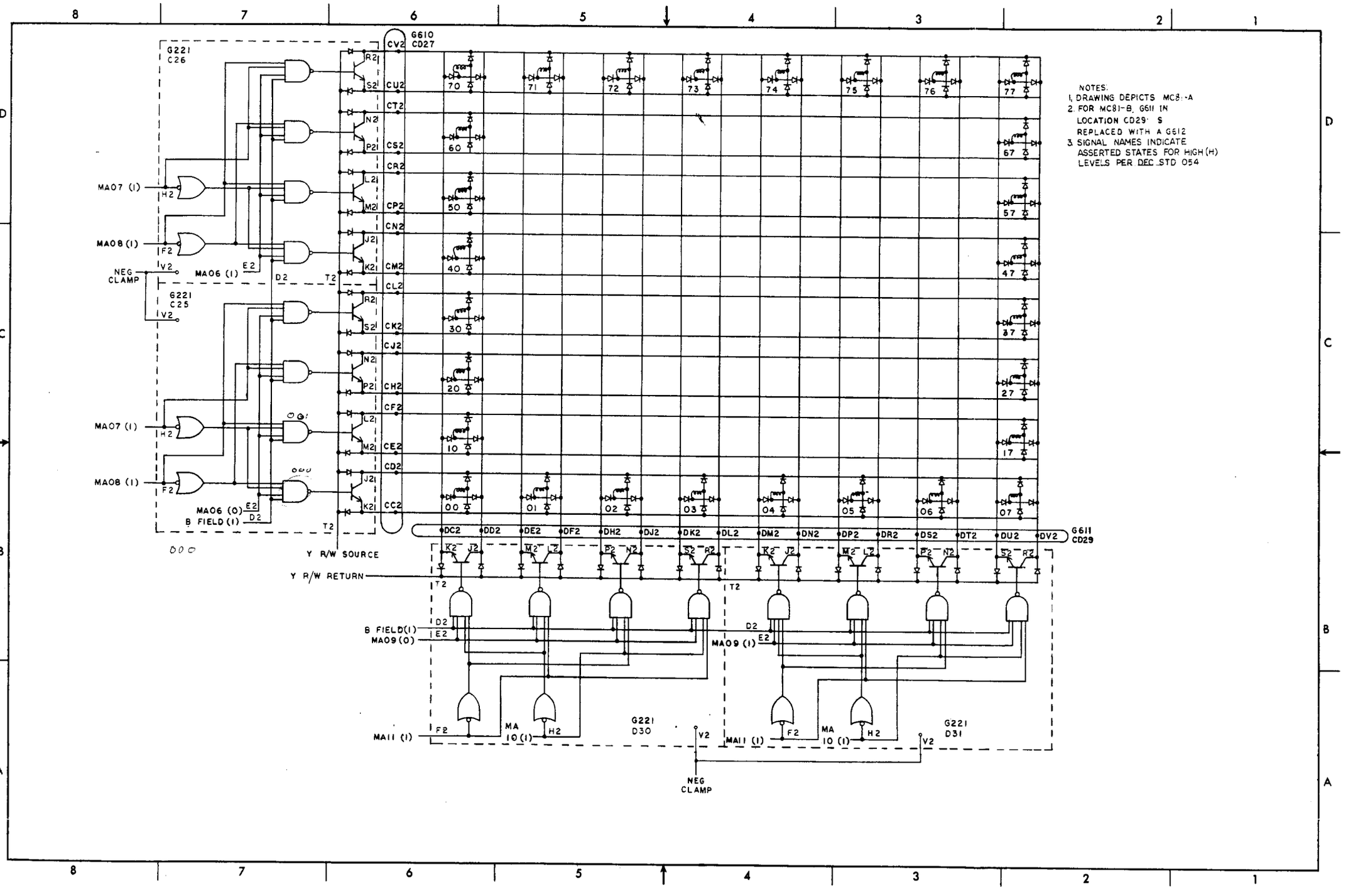


* NOTE:

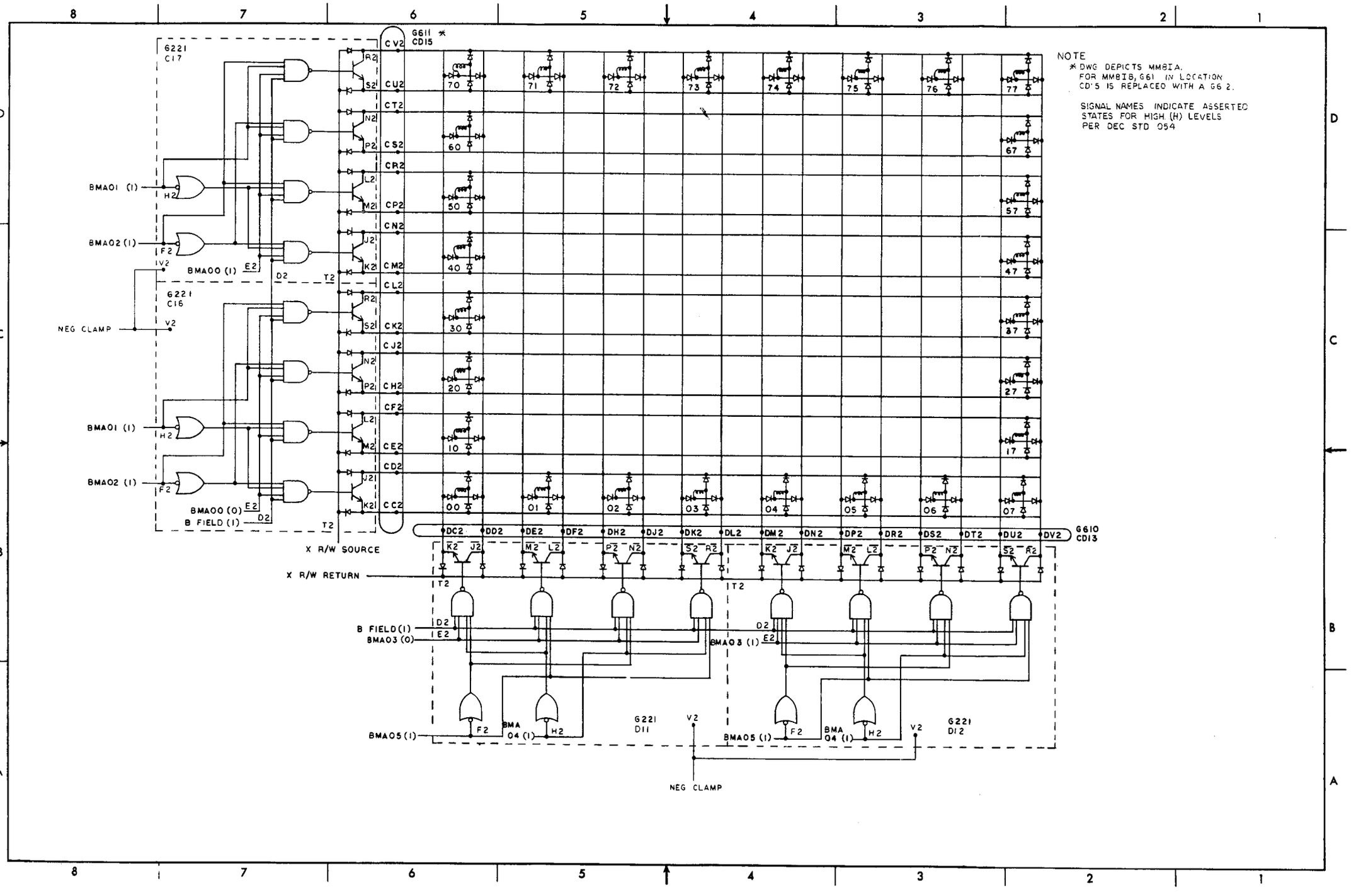
DWG DEPICTS MM8IB.
FOR MM8IB WITHOUT PARITY
REMOVE G228 IN LOCATION A23.

SIGNAL NAMES INDICATE
ASSERTED STATES FOR
HIGH (H) LEVELS PER DEC
STD 054

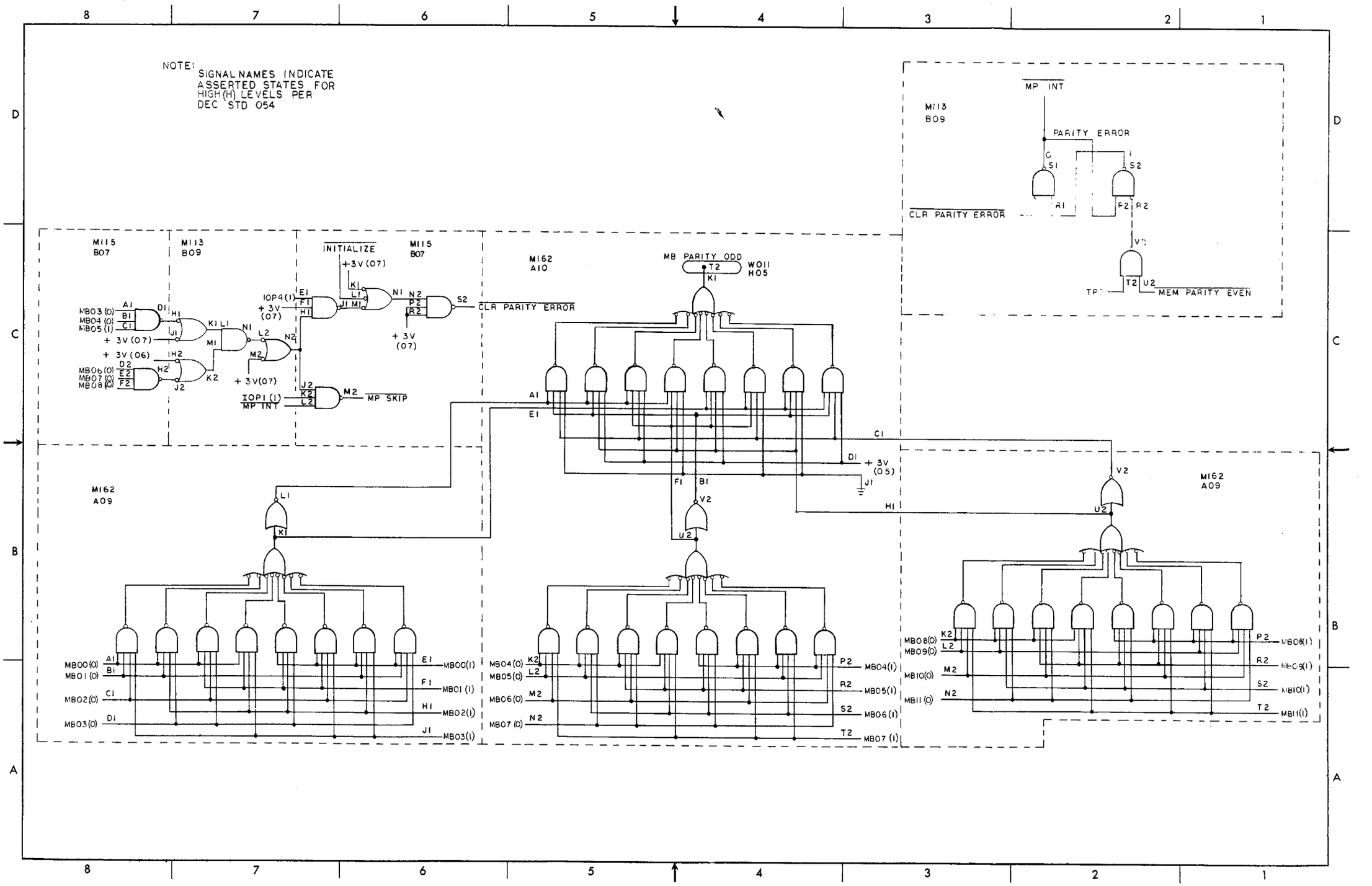
D-BS-MM8I-B-1 Inhibit Drivers, Field 1



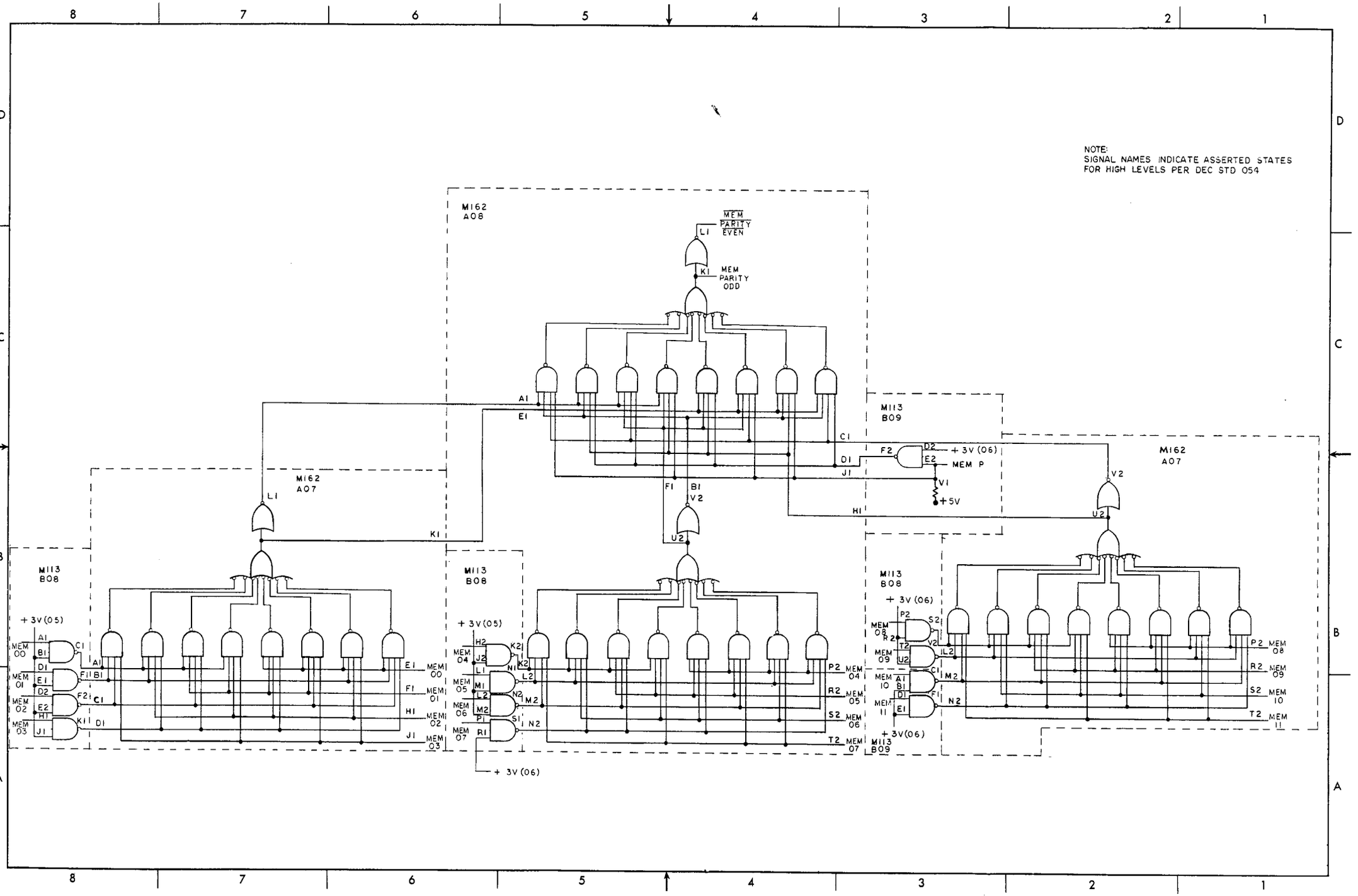
D-BS-MM8I-B-2 X Axis Selection, Field 1



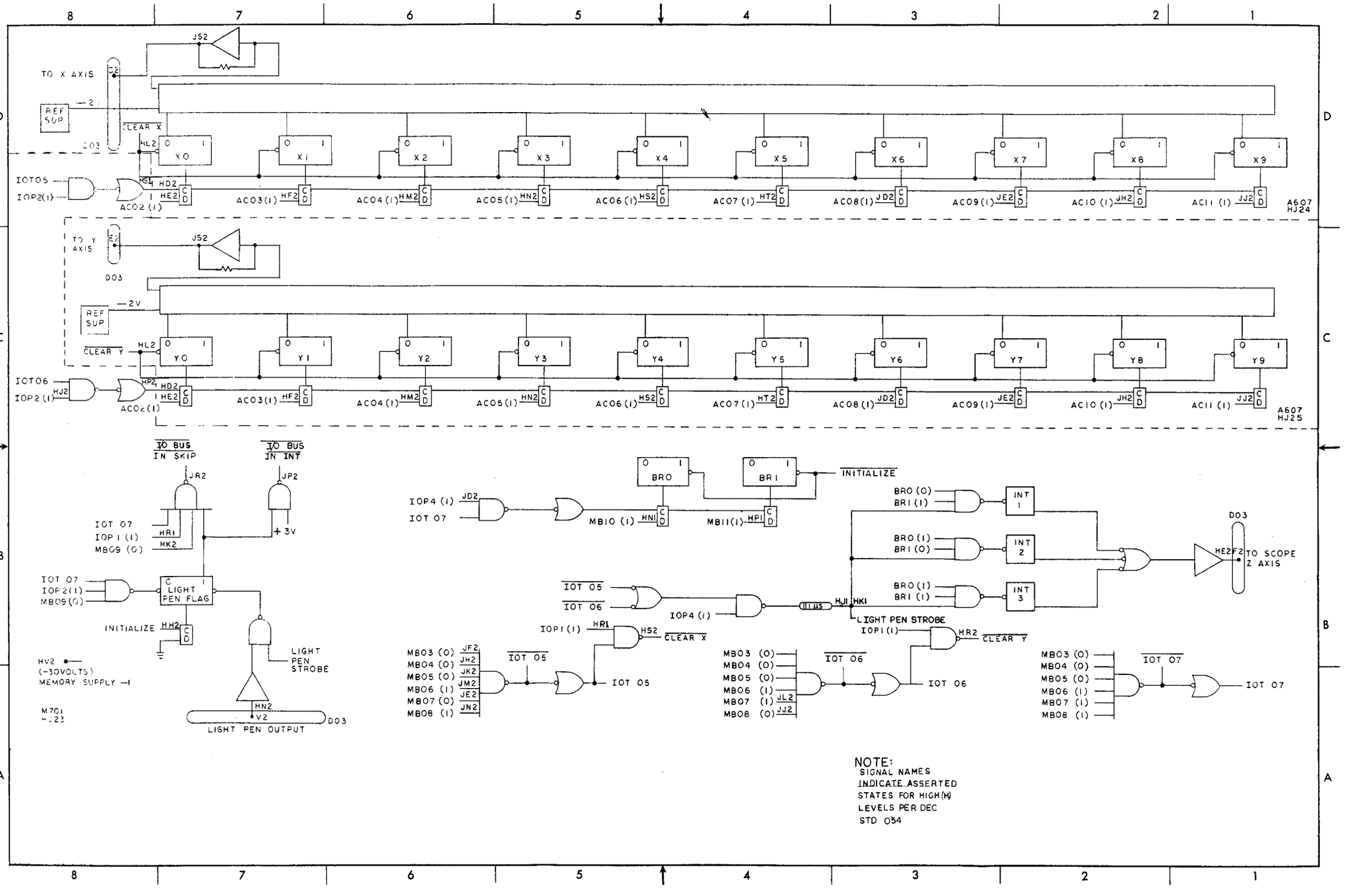
D-BS-MM8I-B-3 Y Axis Selection, Field 1



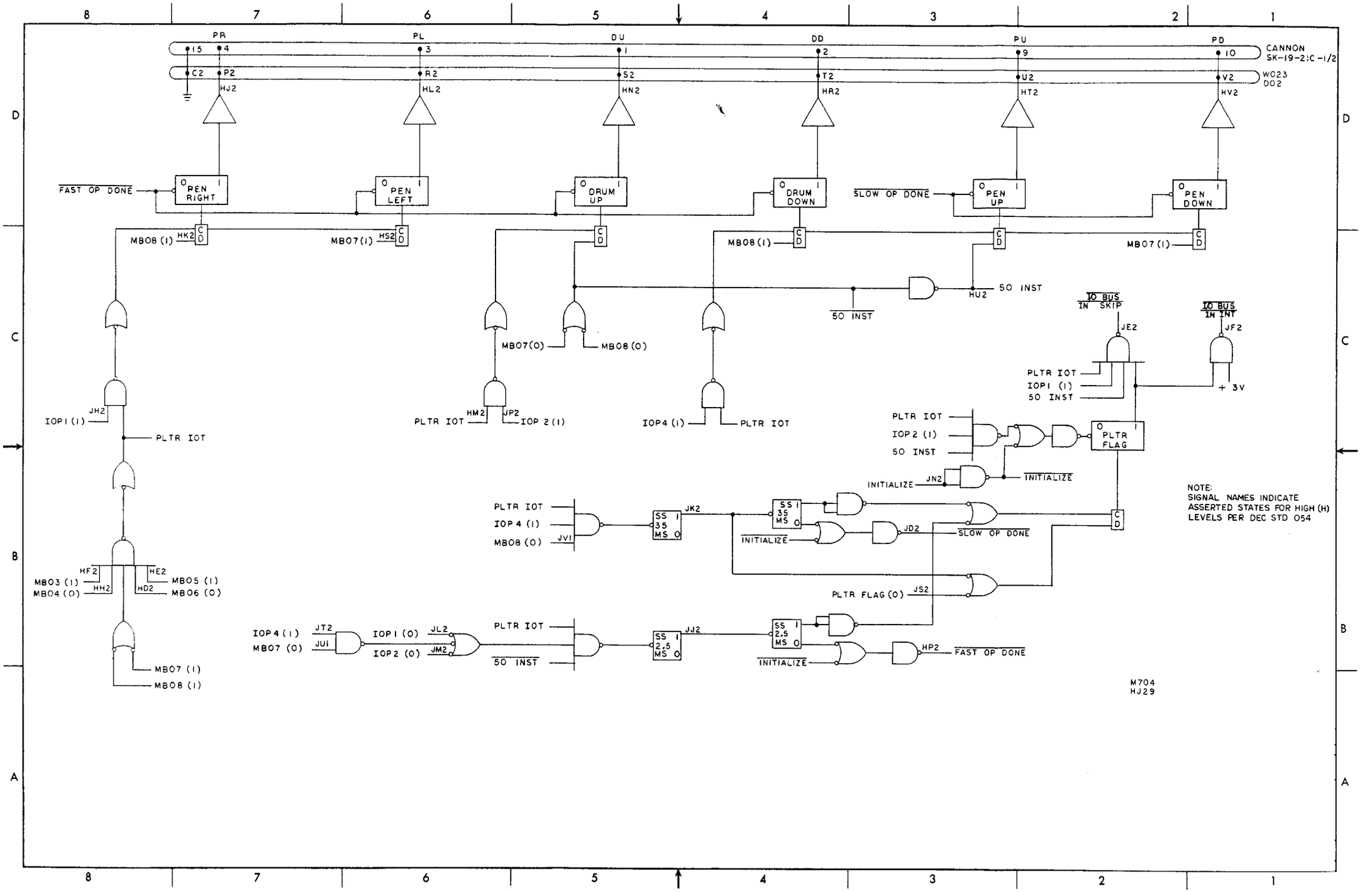
D-BS-MP8I-0-1 Memory Parity Option (Sheet 1)



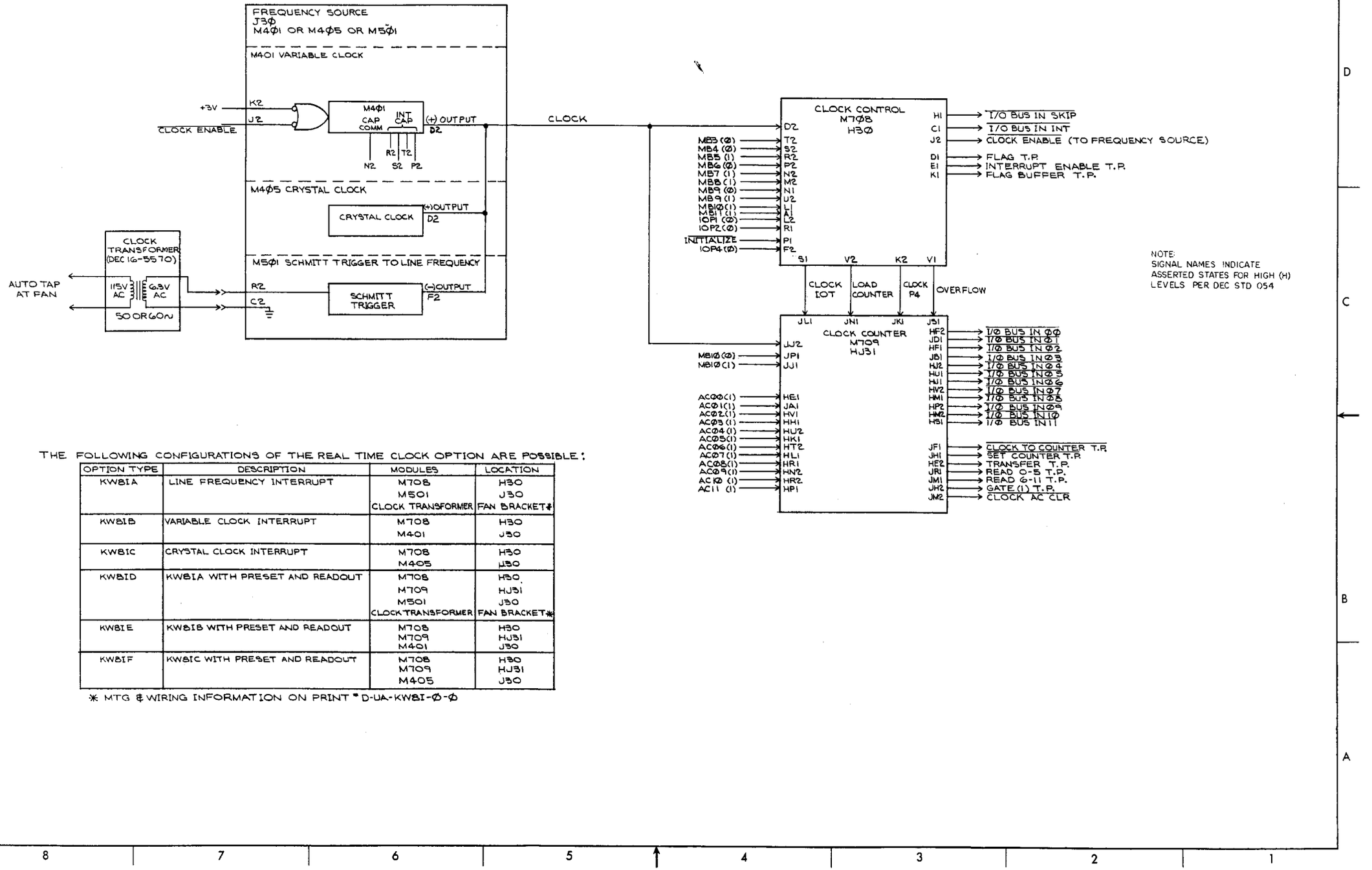
D-BS-MP8I-0-1 Memory Parity Option (Sheet 2)



D-BS-VC8I-0-1 Display Control



D-BS-VP8I-0-1 Plotter Control

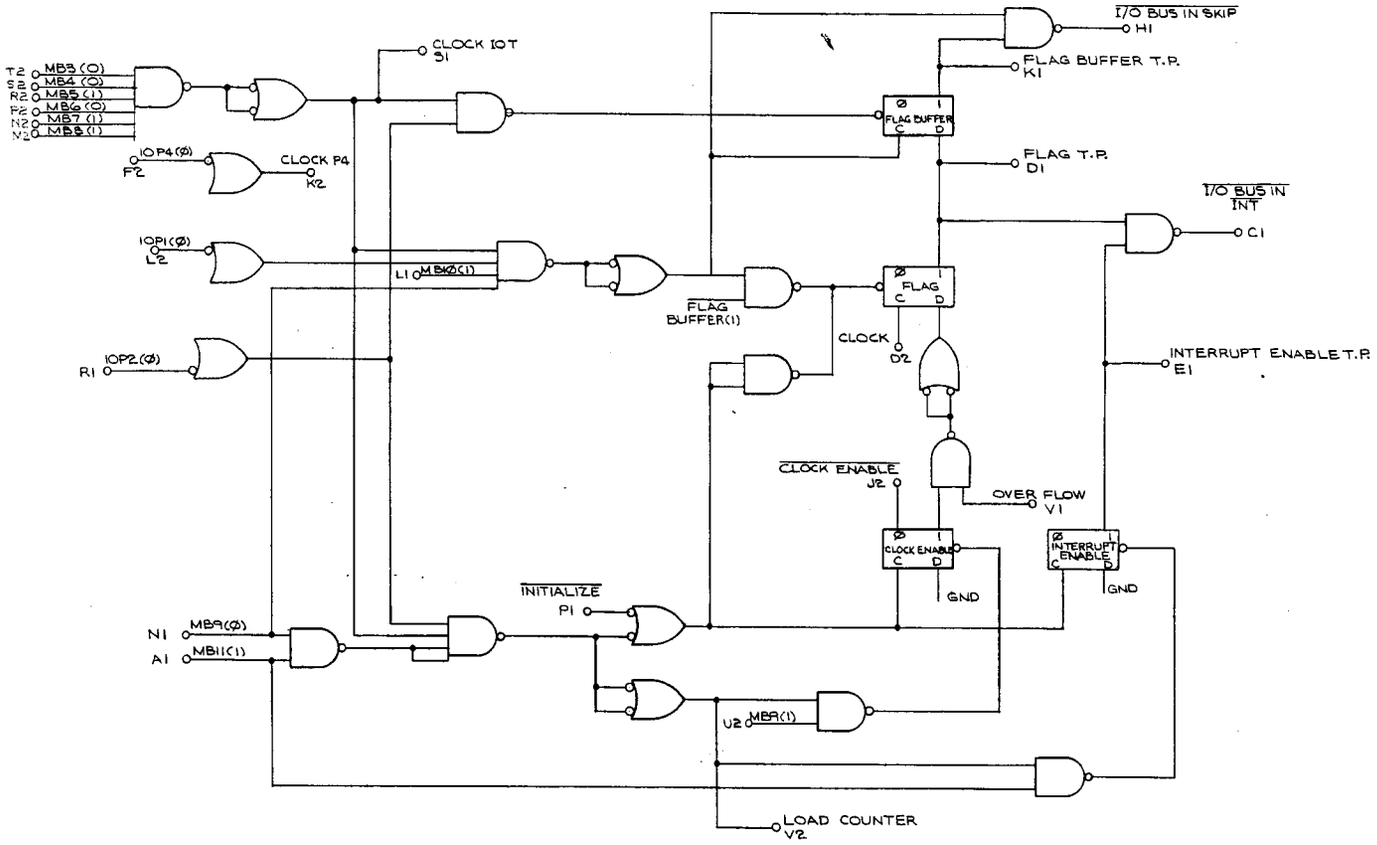


THE FOLLOWING CONFIGURATIONS OF THE REAL TIME CLOCK OPTION ARE POSSIBLE:

OPTION TYPE	DESCRIPTION	MODULES	LOCATION
KW8IA	LINE FREQUENCY INTERRUPT	M708 M501 CLOCK TRANSFORMER	H3Ø J3Ø FAN BRACKET*
KW8IB	VARIABLE CLOCK INTERRUPT	M708 M401	H3Ø J3Ø
KW8IC	CRYSTAL CLOCK INTERRUPT	M708 M405	H3Ø J3Ø
KW8ID	KW8IA WITH PRESET AND READOUT	M708 M709 M501 CLOCK TRANSFORMER	H3Ø HJ31 J3Ø FAN BRACKET*
KW8IE	KW8IB WITH PRESET AND READOUT	M708 M709 M401	H3Ø HJ31 J3Ø
KW8IF	KW8IC WITH PRESET AND READOUT	M708 M709 M405	H3Ø HJ31 J3Ø

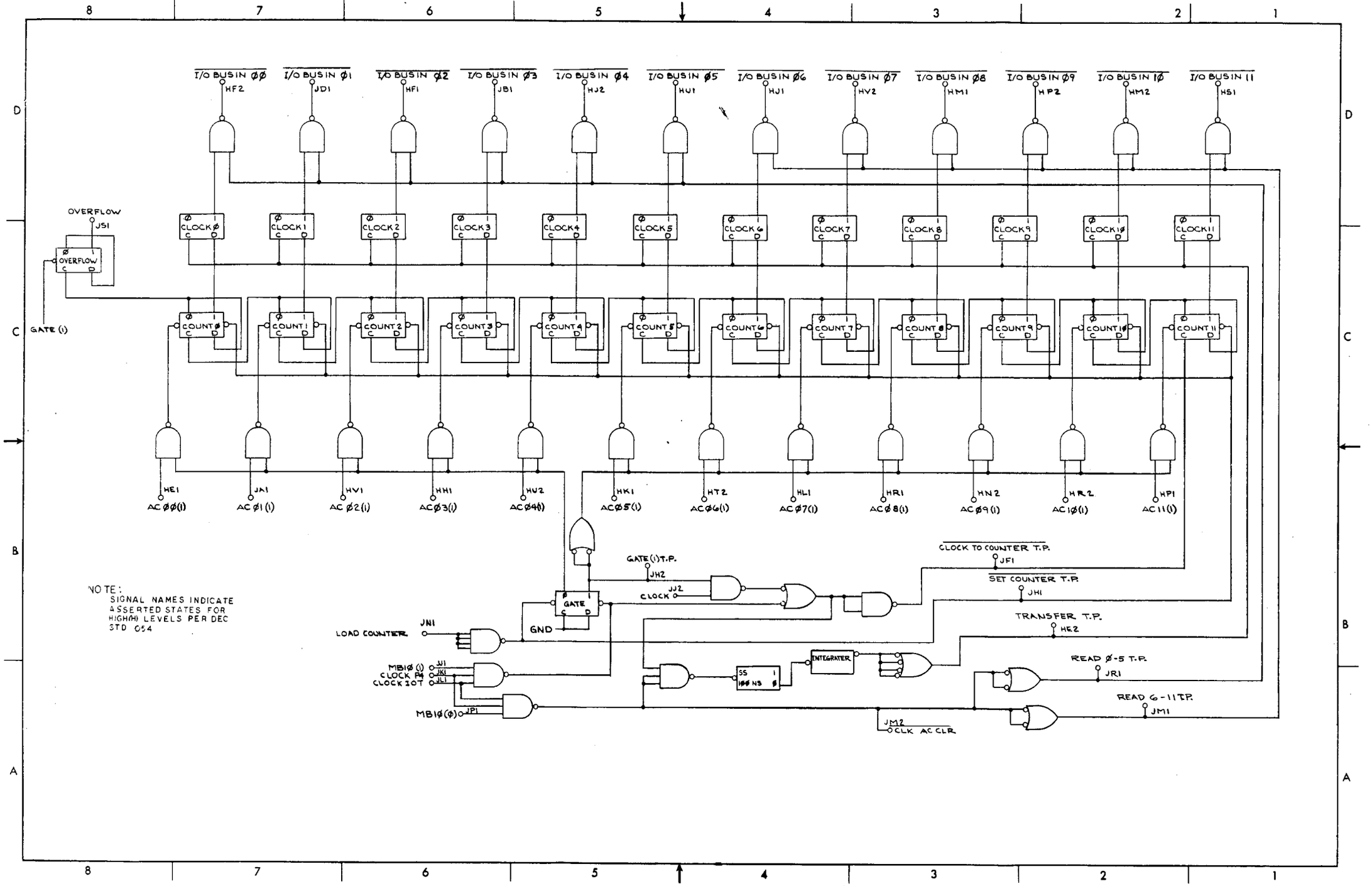
* MTG & WIRING INFORMATION ON PRINT = D-UA-KW8I-Ø-Ø

D-BS-KW8I-0-1 Real Time Clock Option

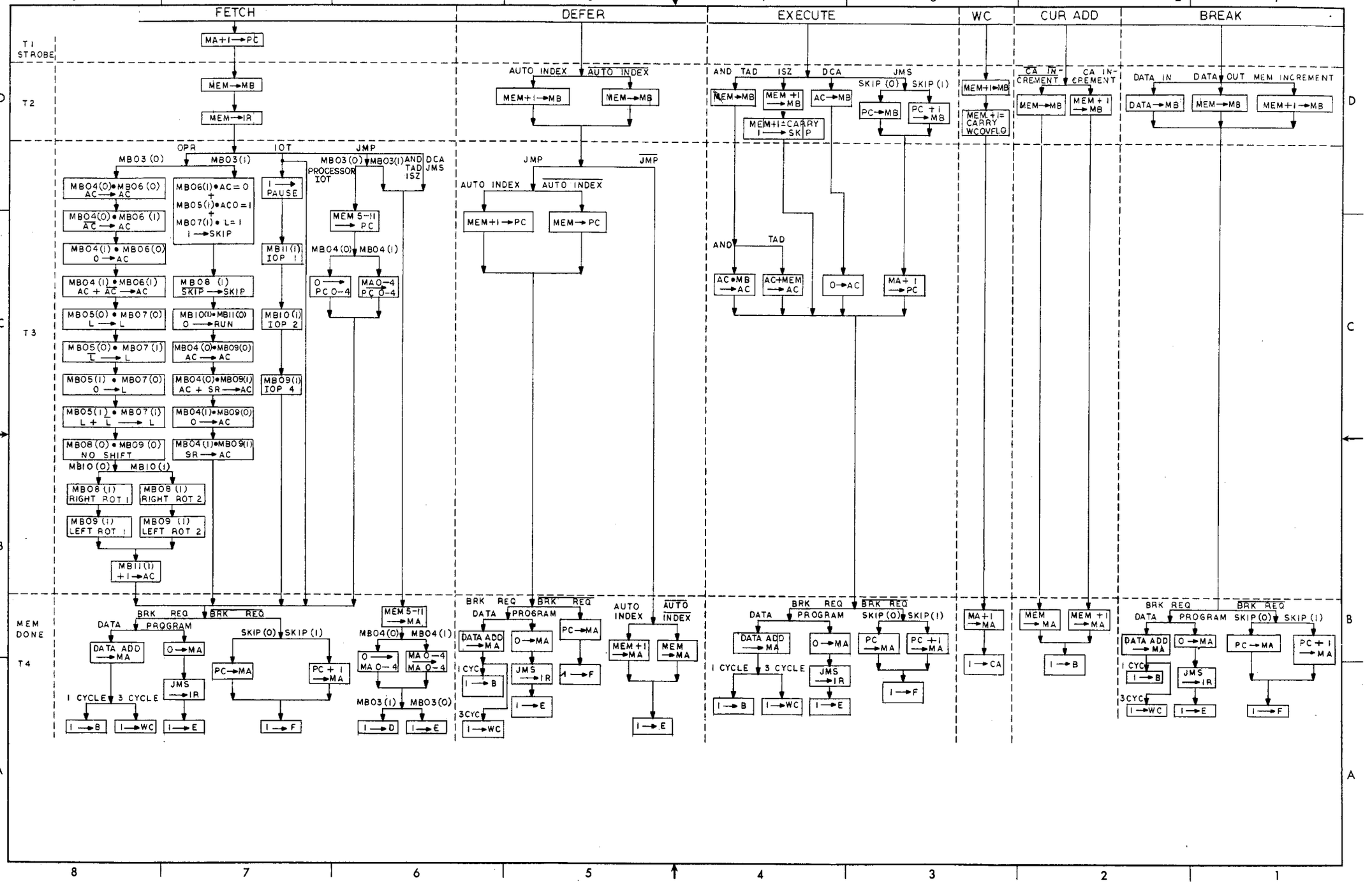


NOTE:
SIGNAL NAMES INDICATE ASSERTED STATES
FOR HIGH (H) LEVELS PER DEC STD 054

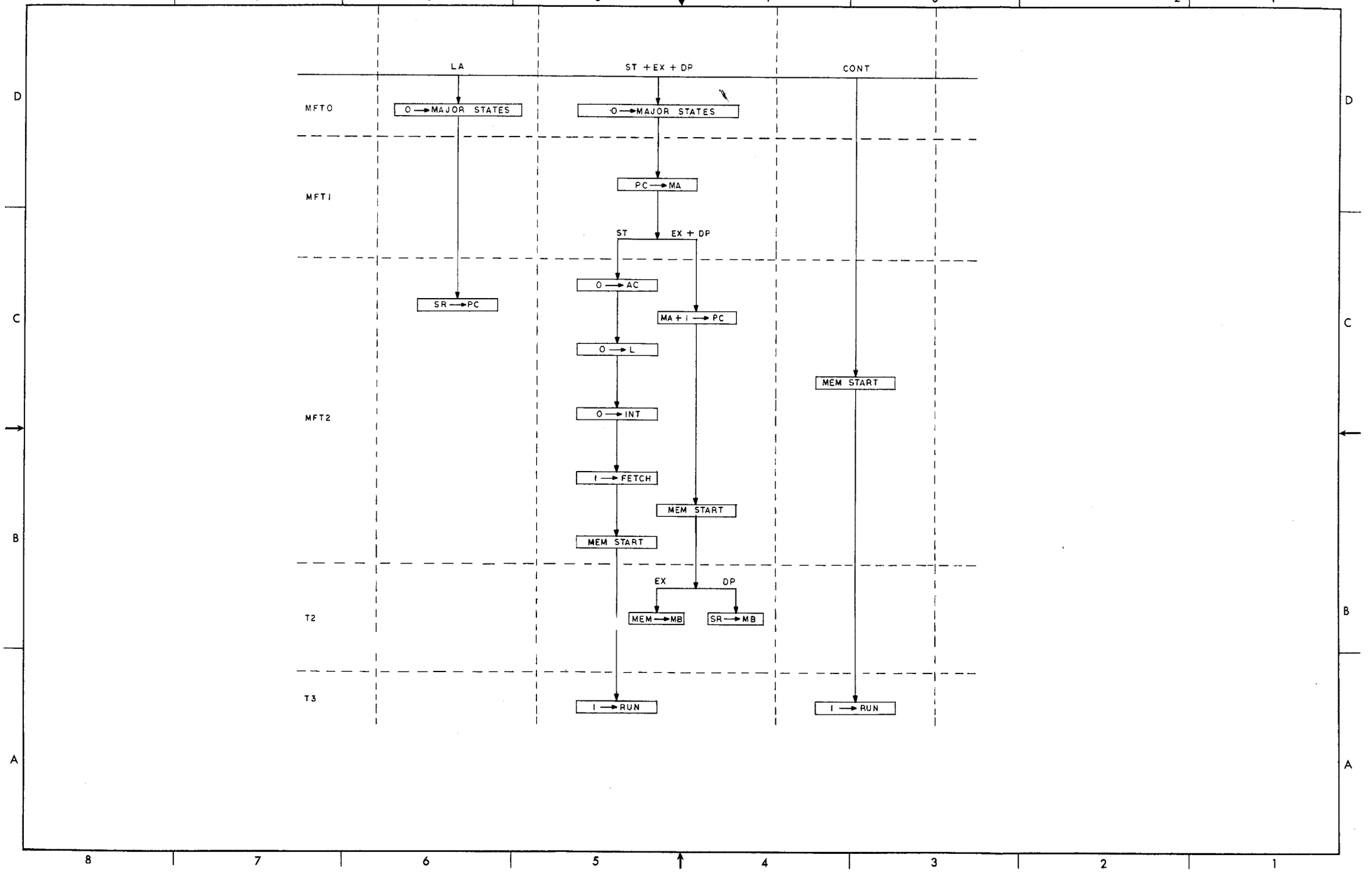
D-BS-KW8I-0-2 Clock Control M708



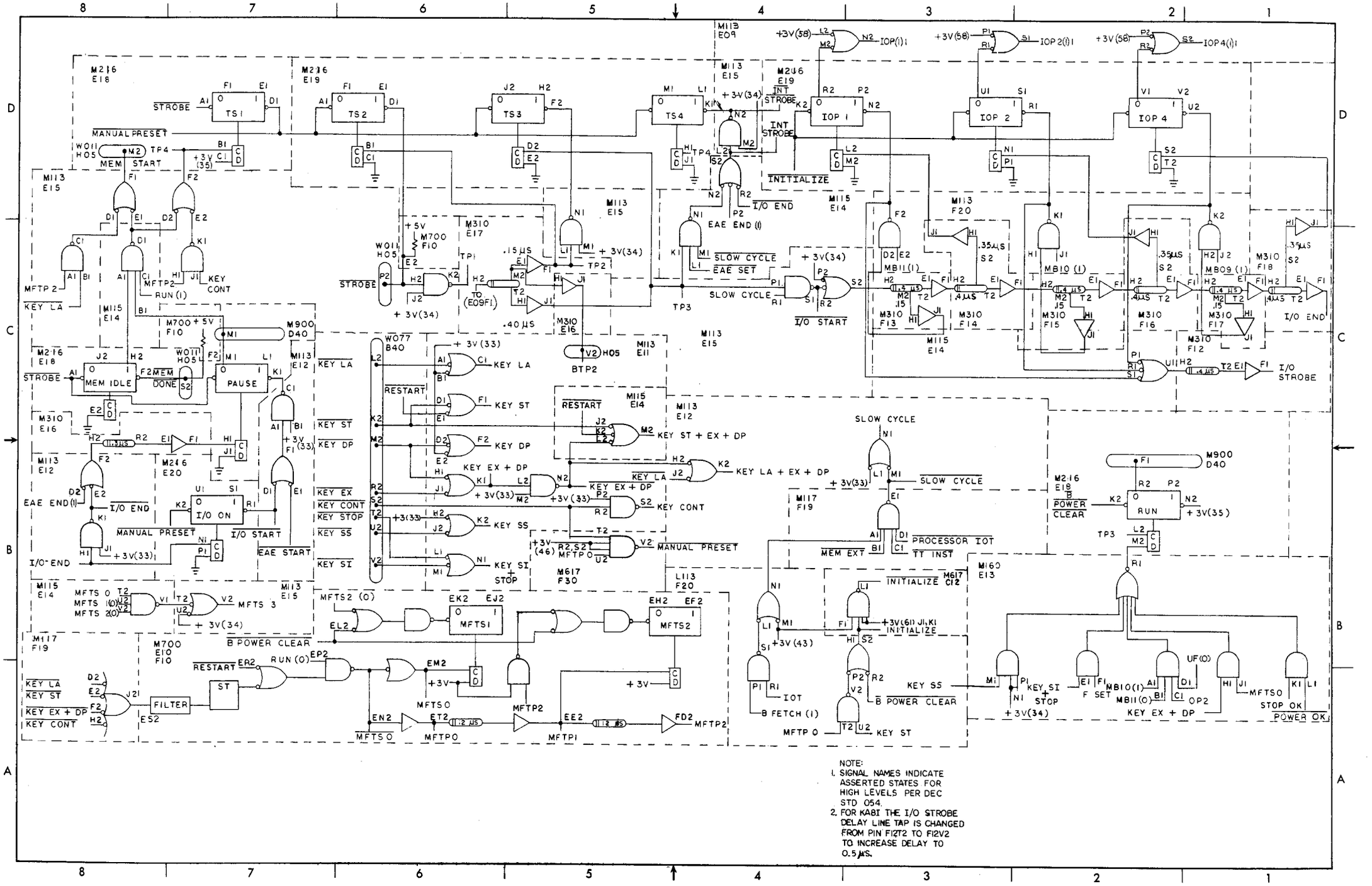
D-BS-KW8I-0-3 Clock Counter M709



D-FD-8I-0-1 Flow Diagram (Sheet 1)

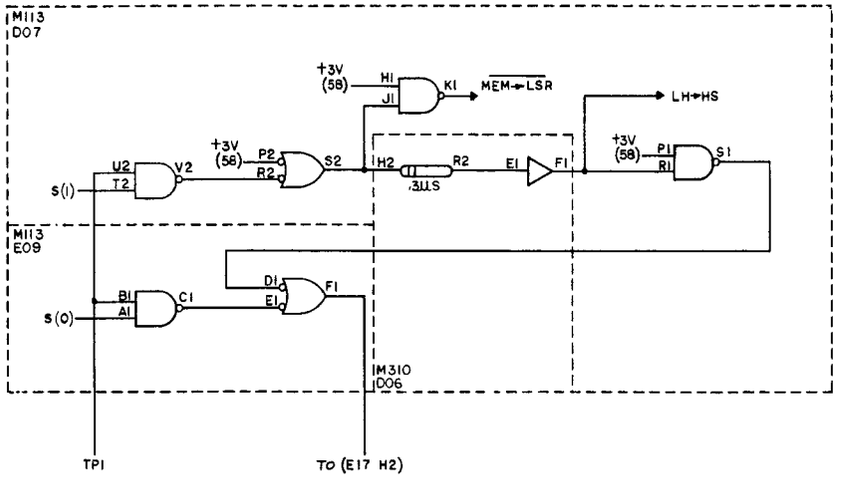


D-FD-8I-0-1 Flow Diagram (Sheet 2)

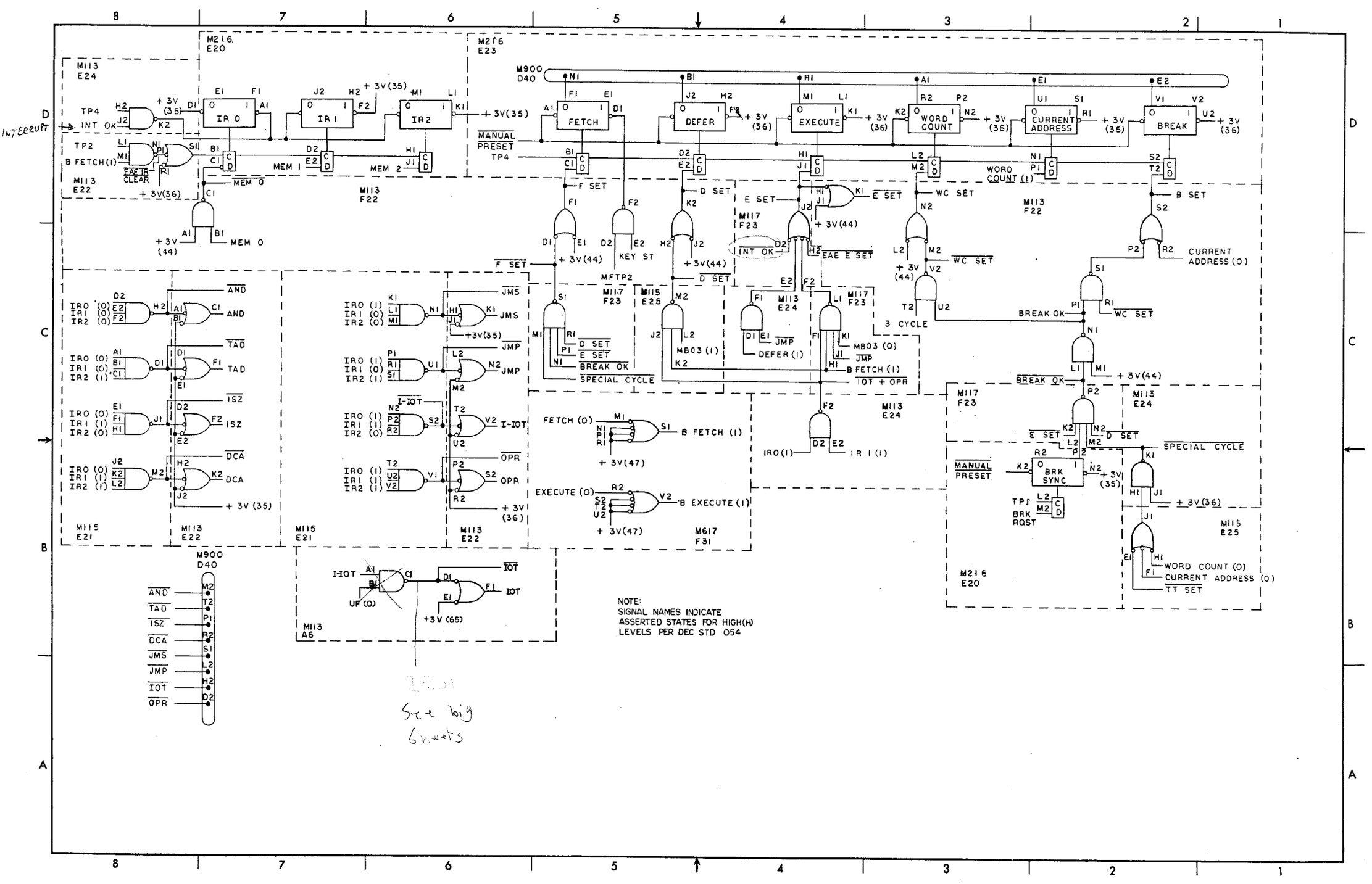


NOTE:
1. SIGNAL NAMES INDICATE ASSERTED STATES FOR HIGH LEVELS PER DEC STD 054.
2. FOR KA8I THE I/O STROBE DELAY LINE TAP IS CHANGED FROM PIN F12T2 TO F12V2 TO INCREASE DELAY TO 0.5 μS.

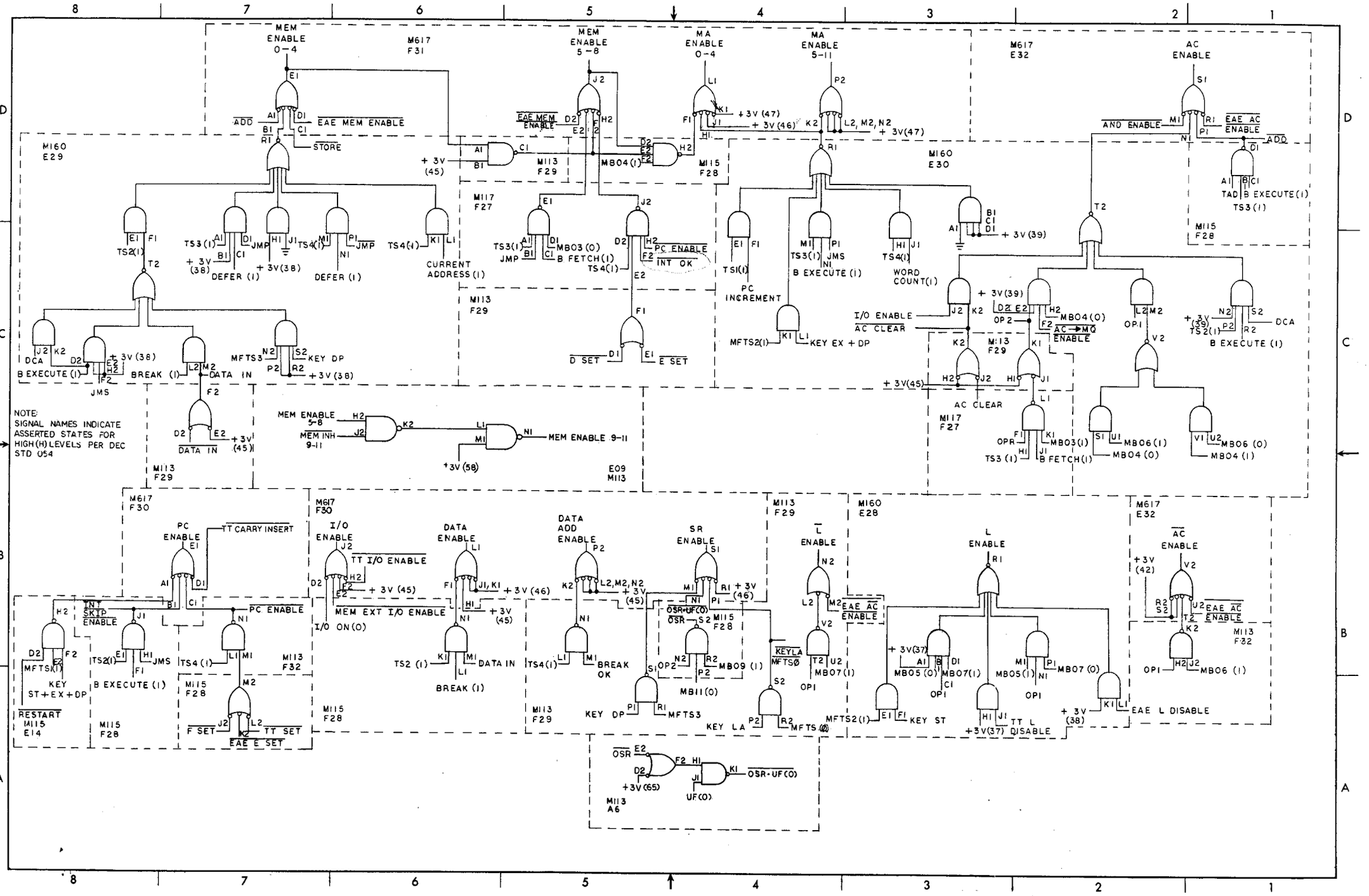
D-BS-8I-0-2 Timing Manual Functions and Run (Sheet 1)



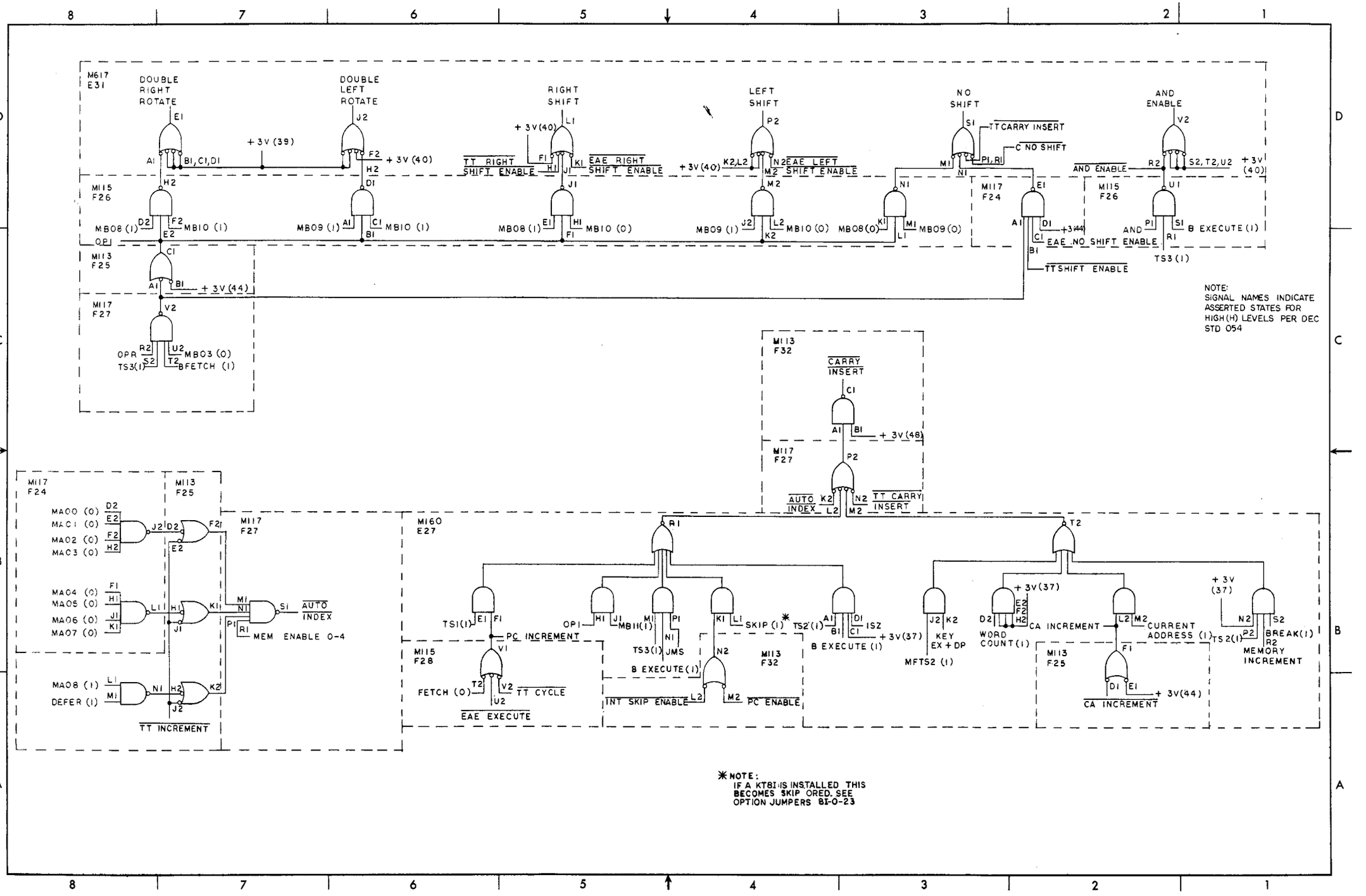
D-BS-81-0-2 Timing Manual Functions and Run
(Sheet 2)



D-BS-8I-0-3 Instruction Register and Major States

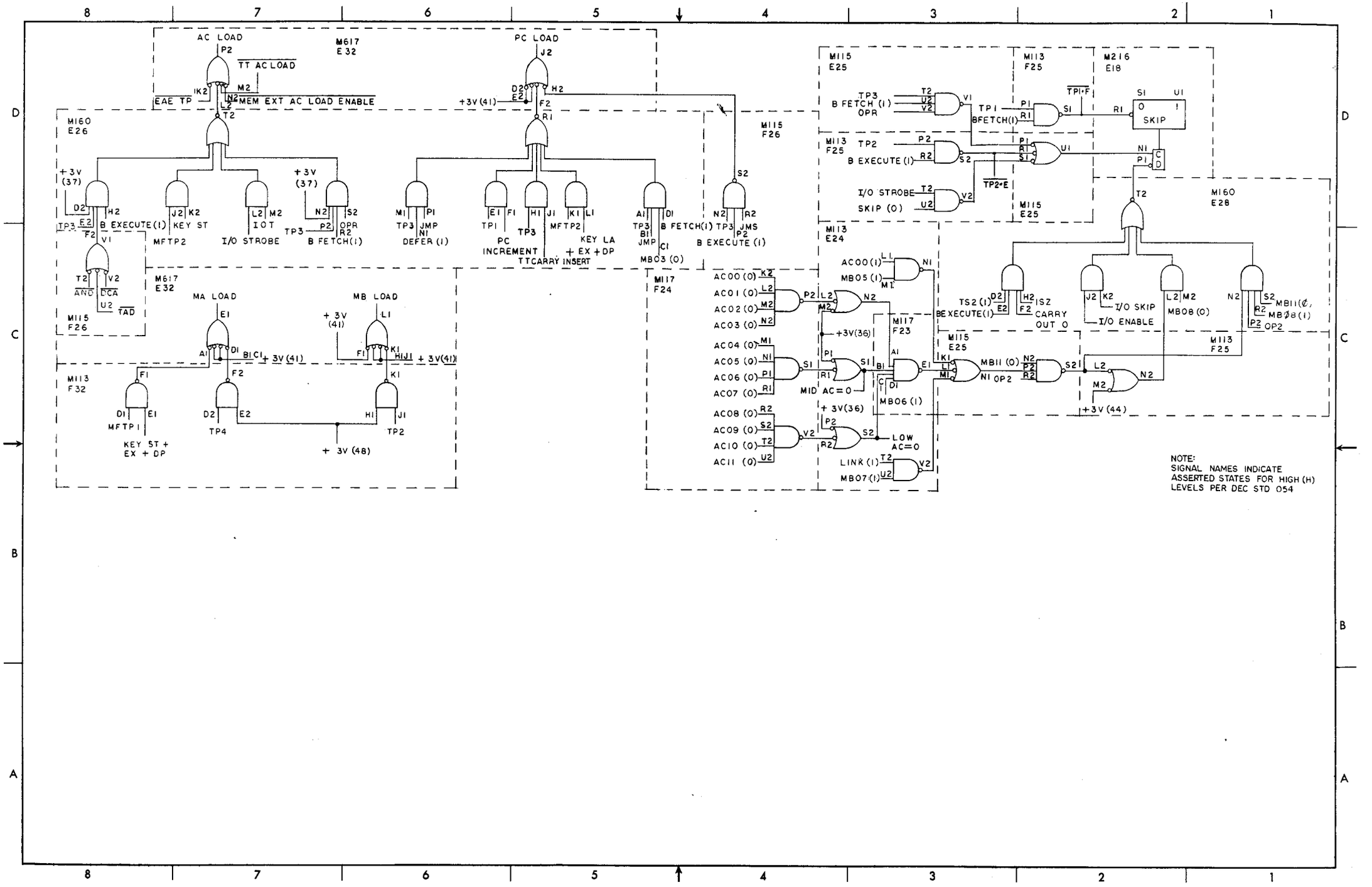


D-BS-8I-0-4 Register Output Gate Control

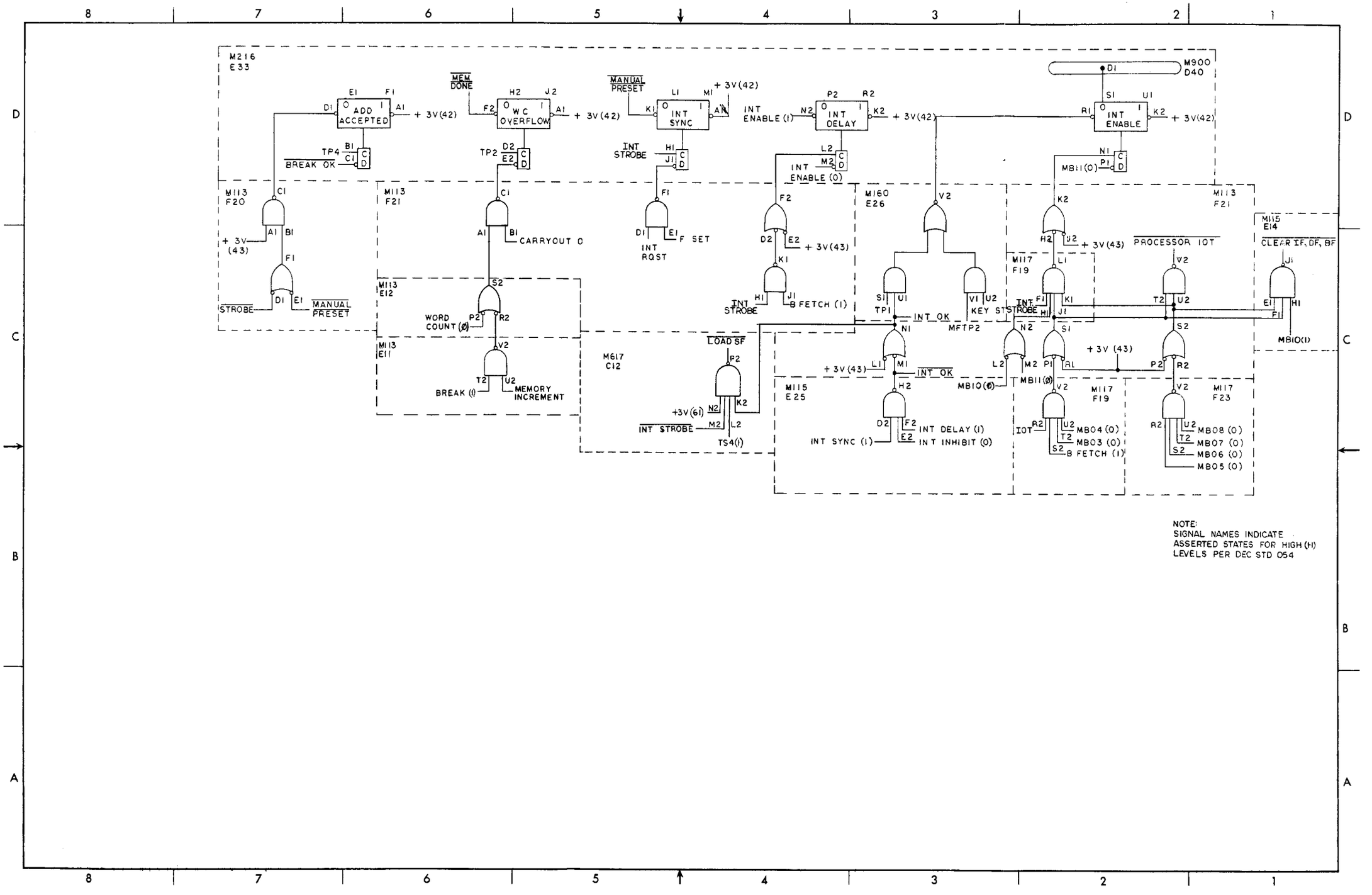


NOTE:
SIGNAL NAMES INDICATE ASSERTED STATES FOR HIGH(H) LEVELS PER DEC STD 054

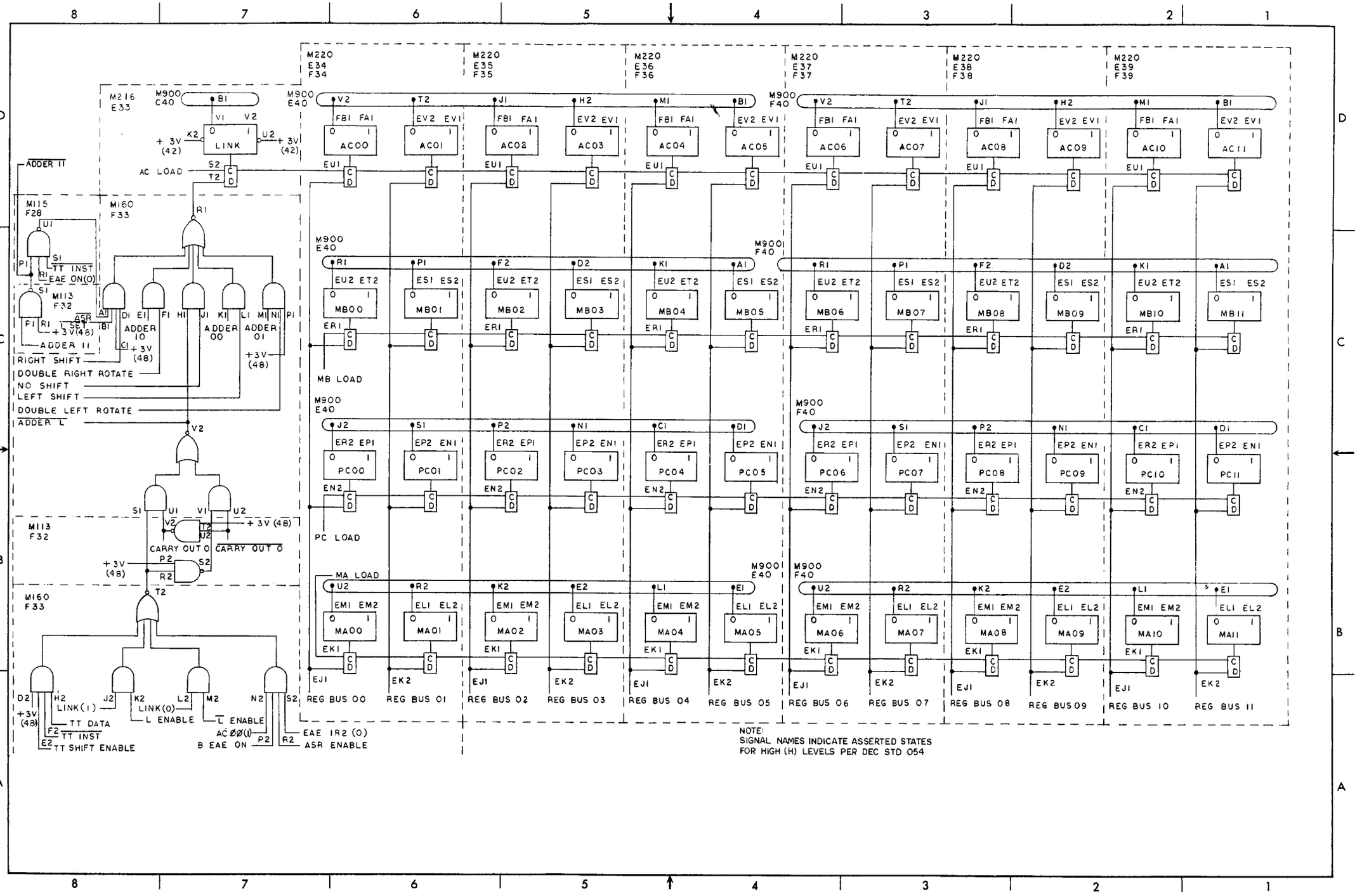
D-BS-8I-0-5 Shift and Carry Gate Control



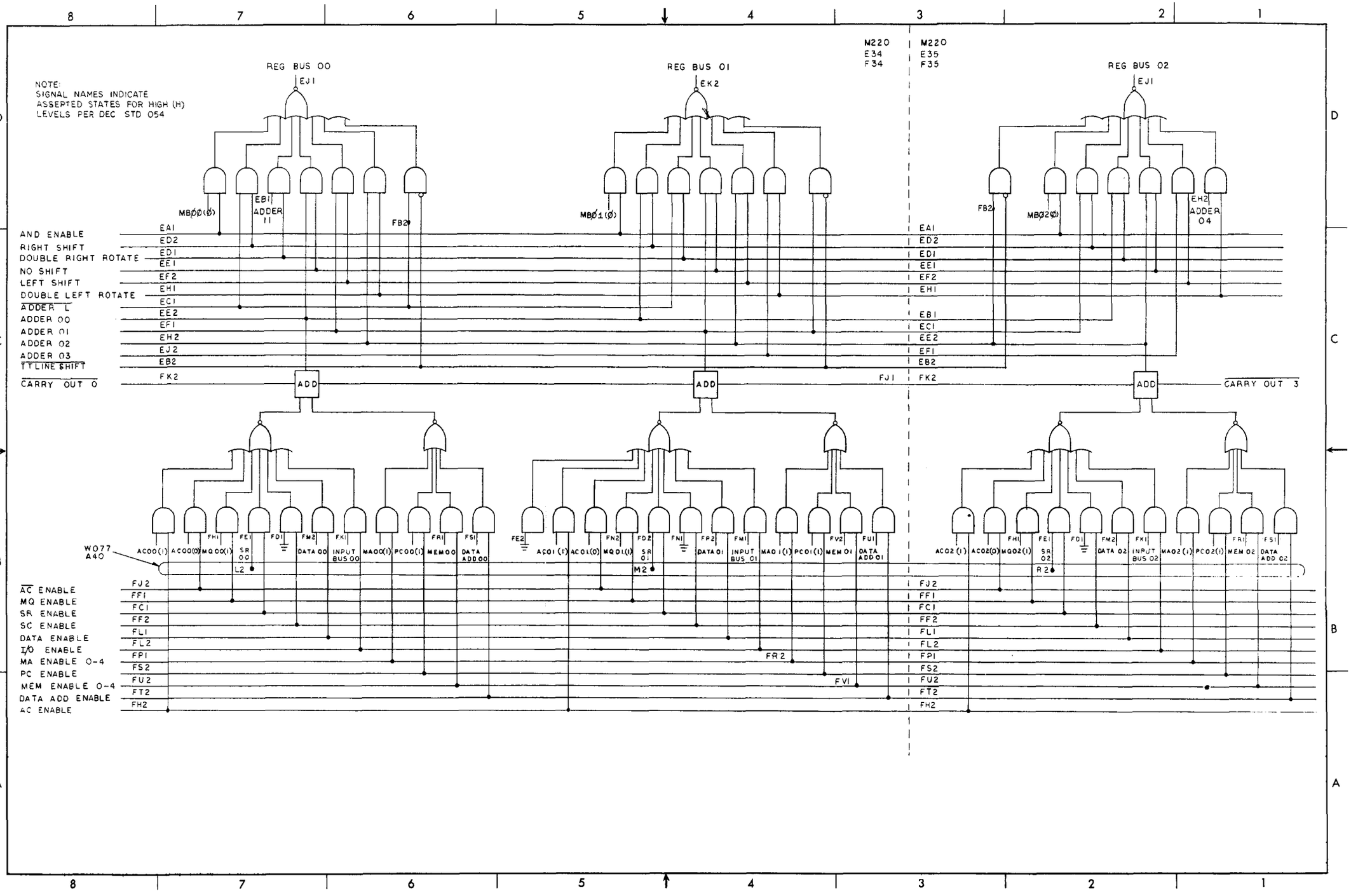
D-BS-8I-0-6 Register Input Control and Skip



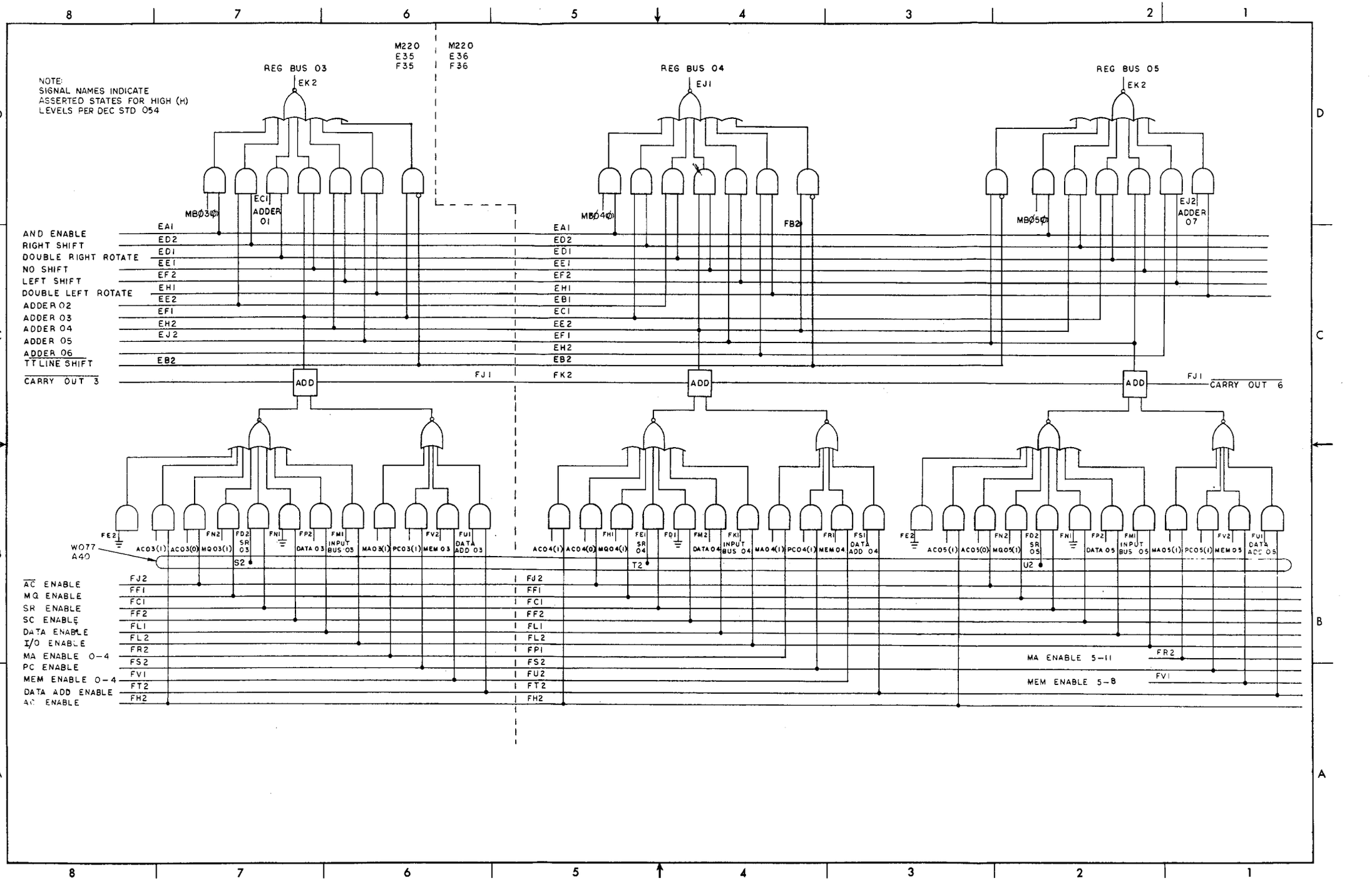
D-BS-8I-0-7 Interrupt and Break Control



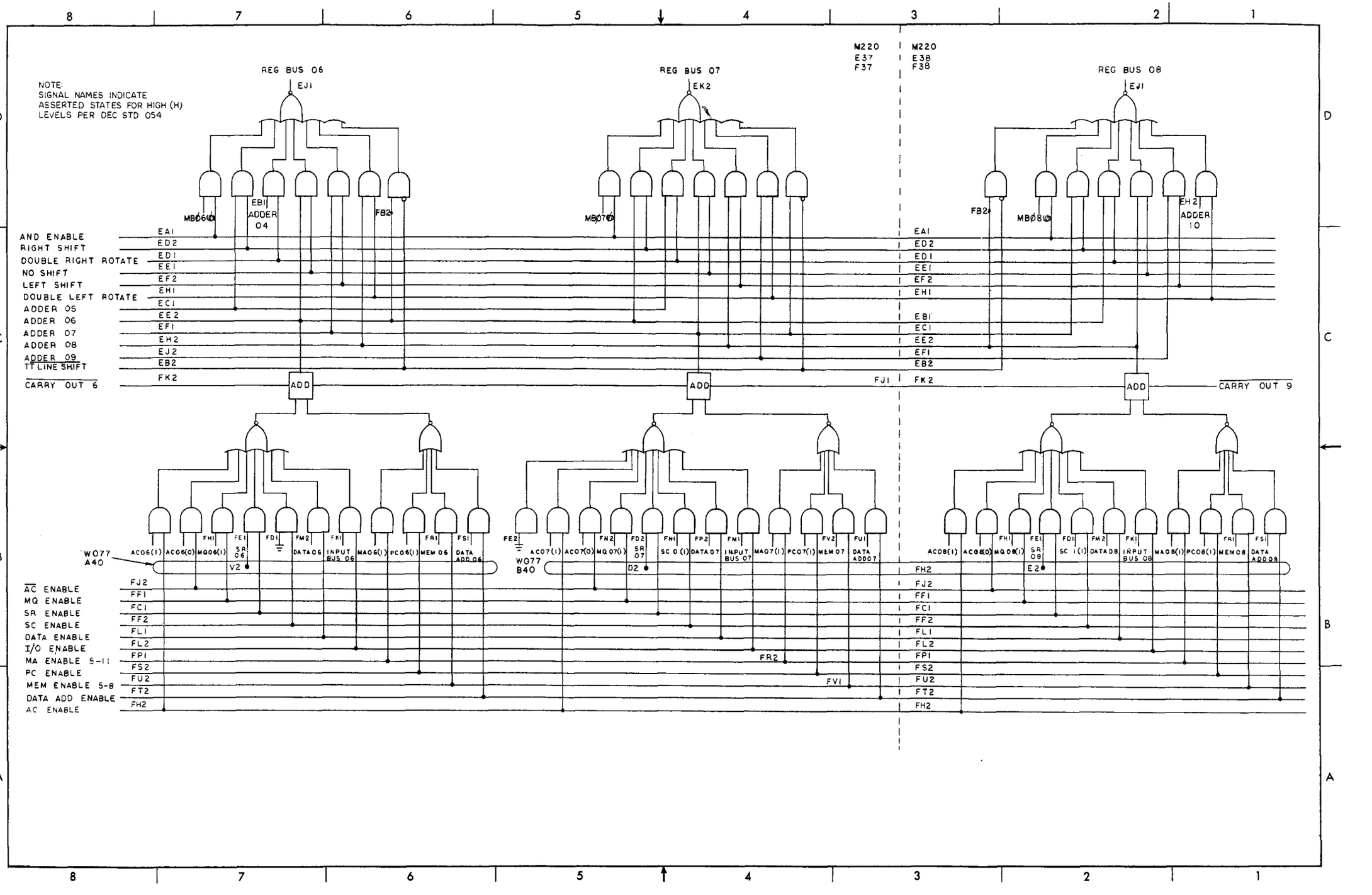
D-BS-8I-0-8 Major Registers



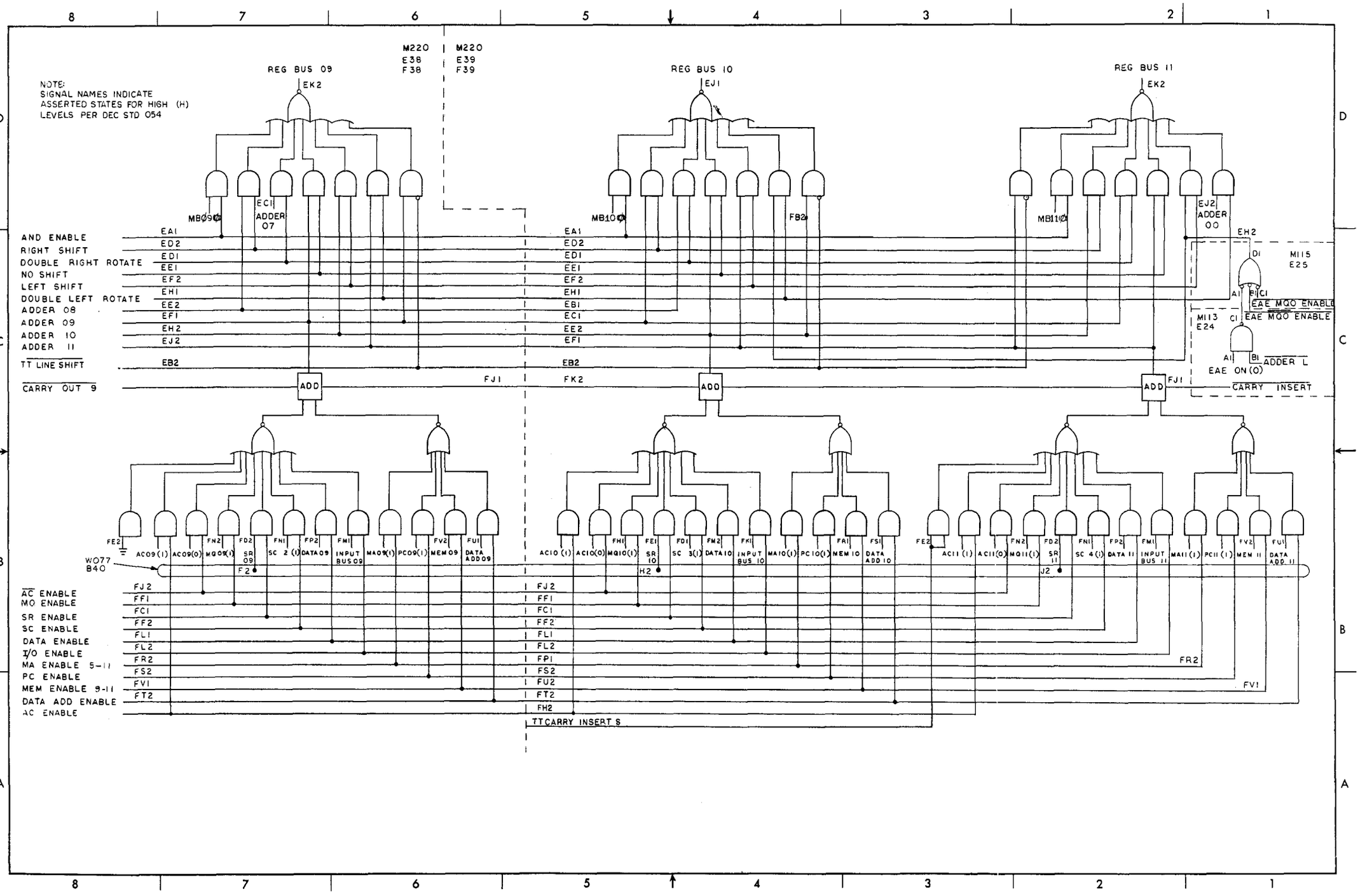
D-BS-8I-0-9 Major Registers Gating (Sheet 1)



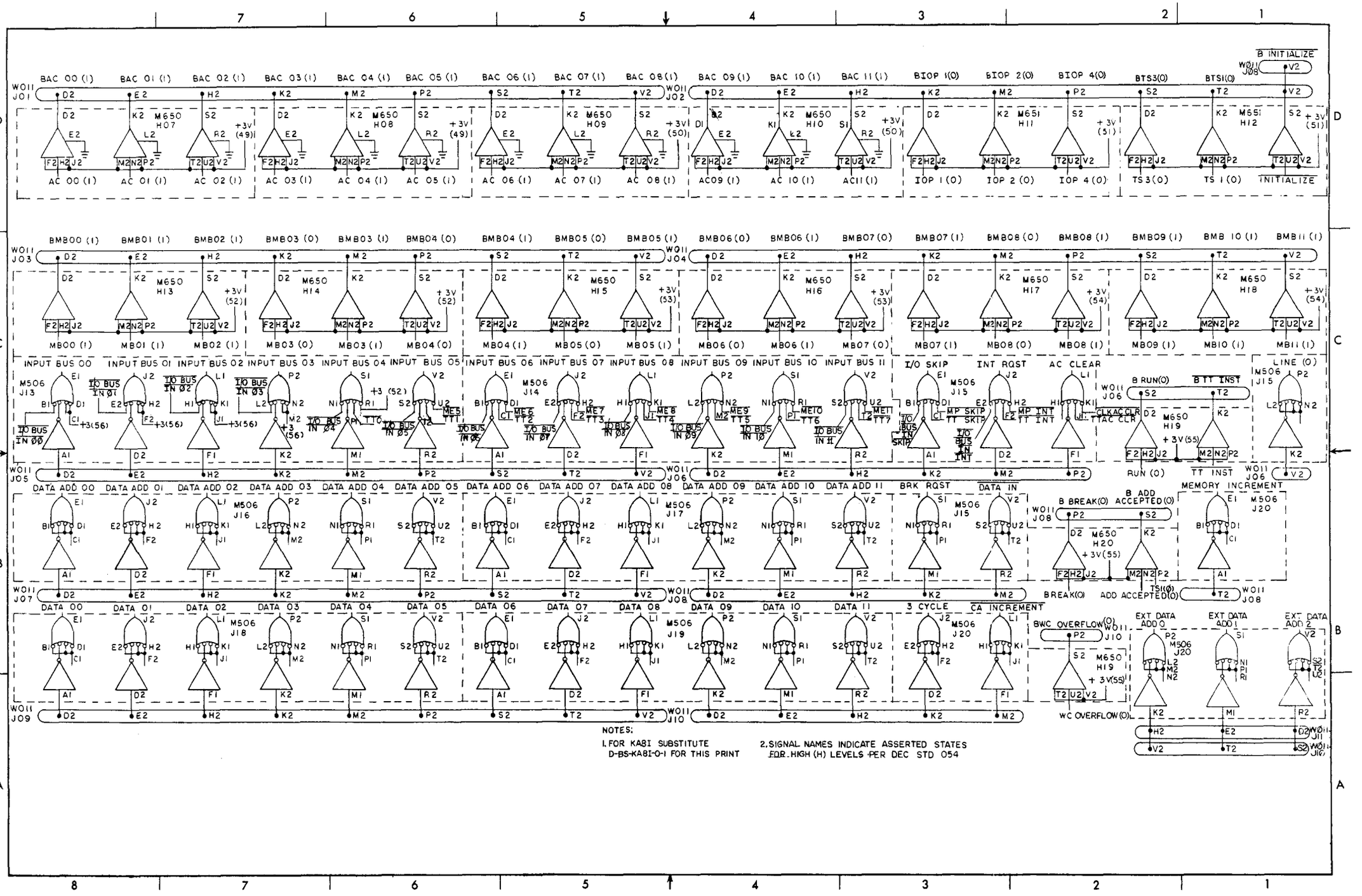
D-BS-8I-0-9 Major Registers Gating (Sheet 2)



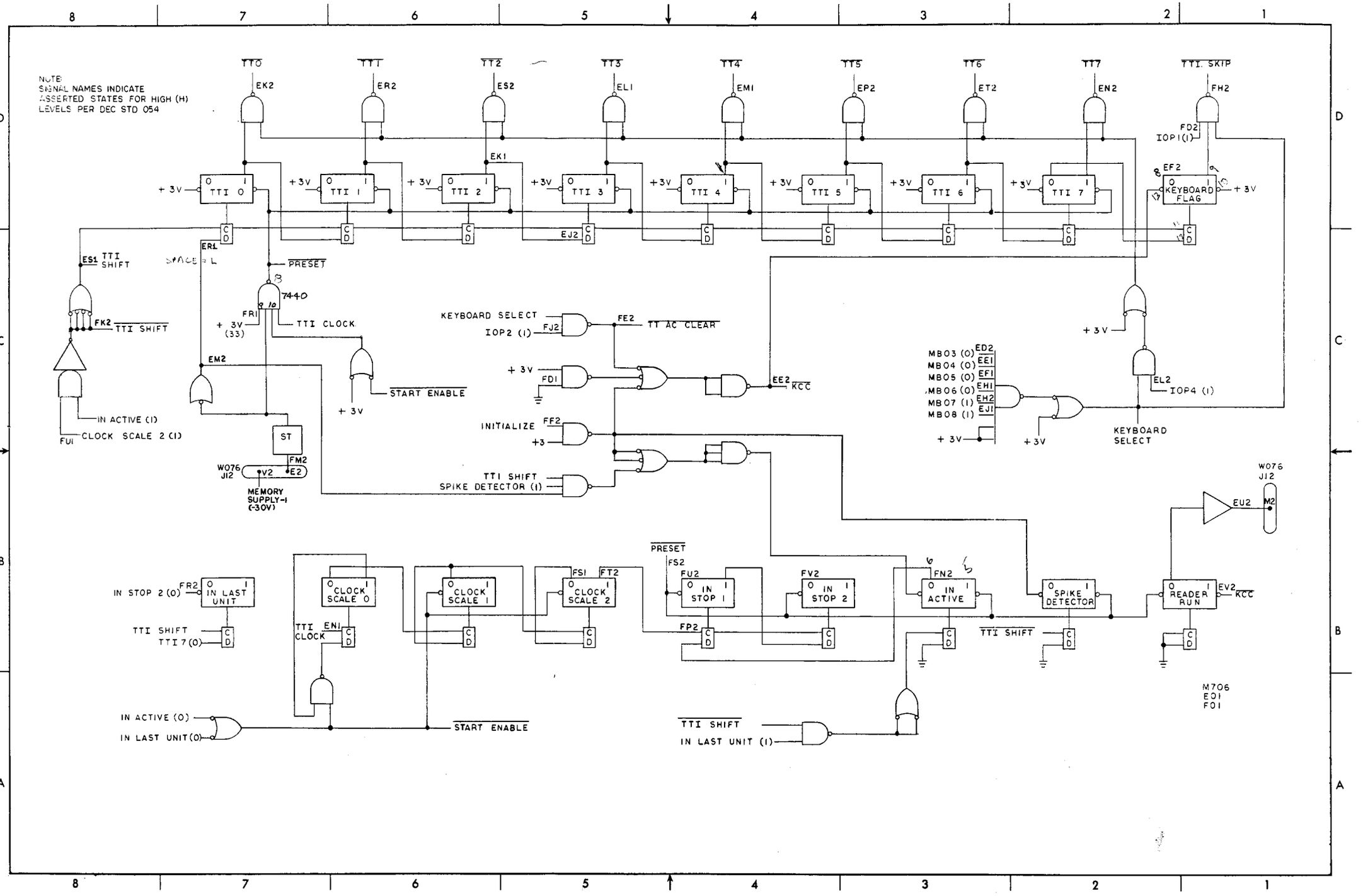
D-BS-8I-0-9 Major Registers Gating (Sheet 3)

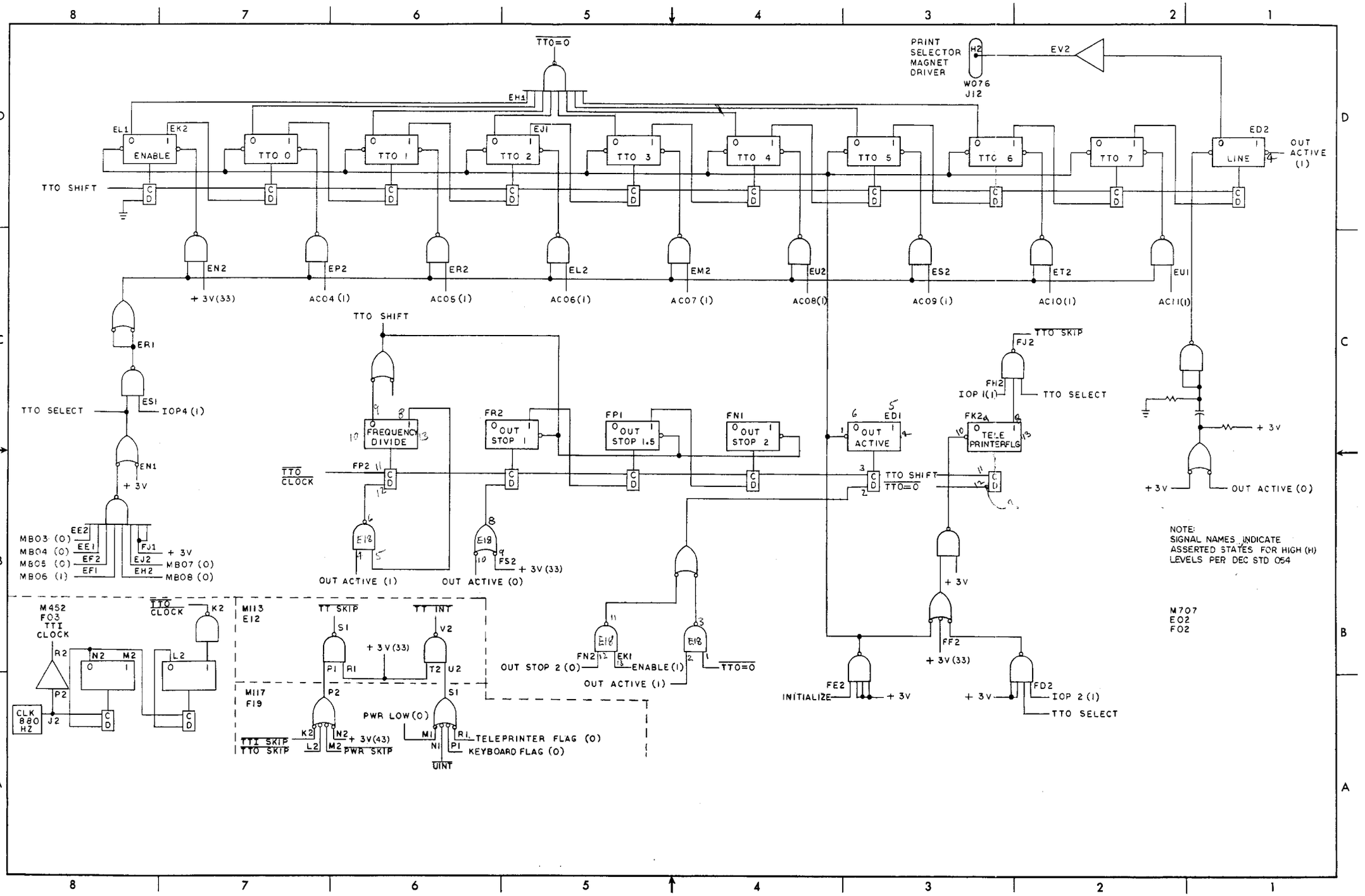


D-BS-8I-0-9 Major Registers Gating (Sheet 4)

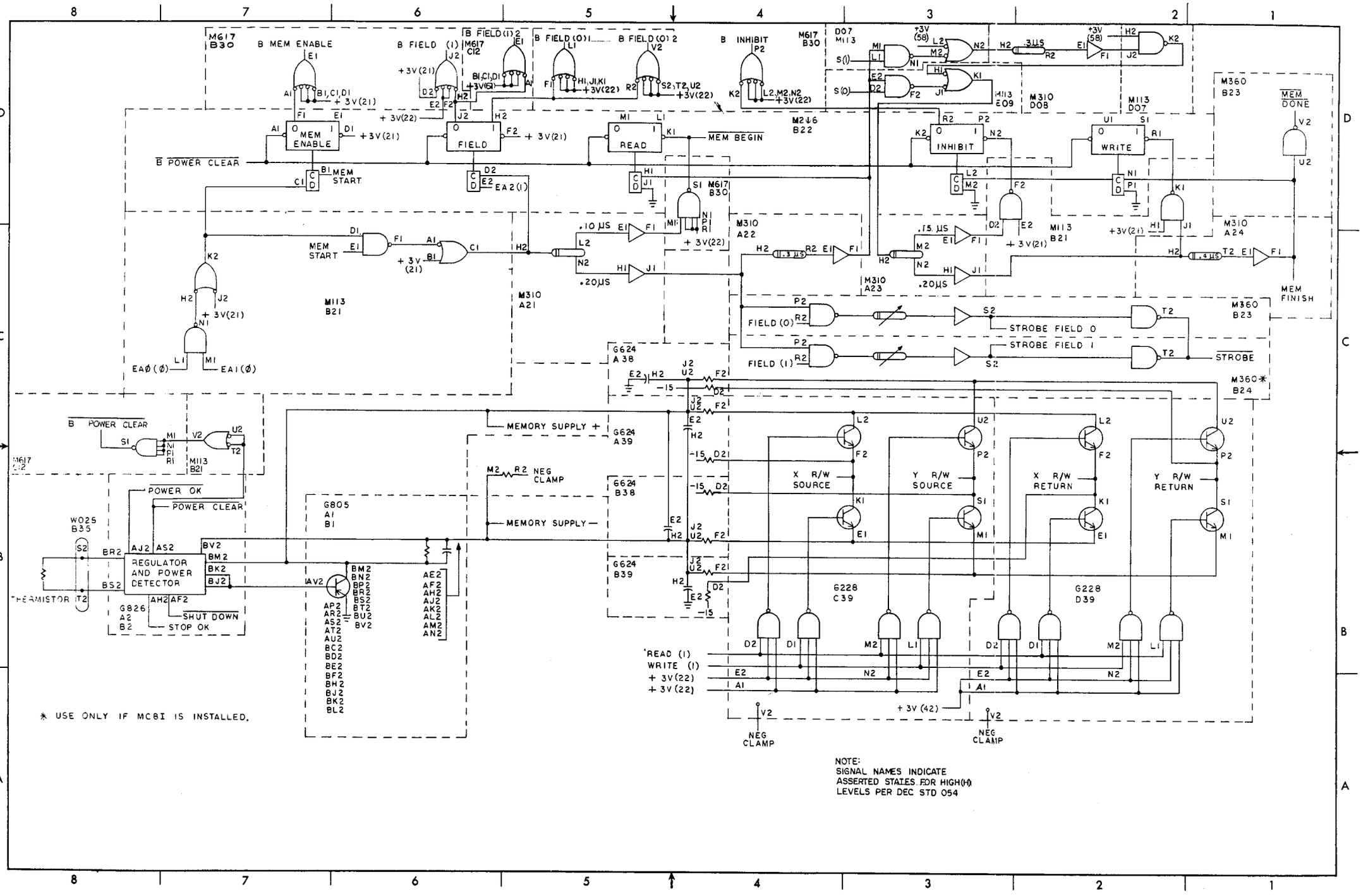


D-BS-8I-0-10 I/O Level Converter

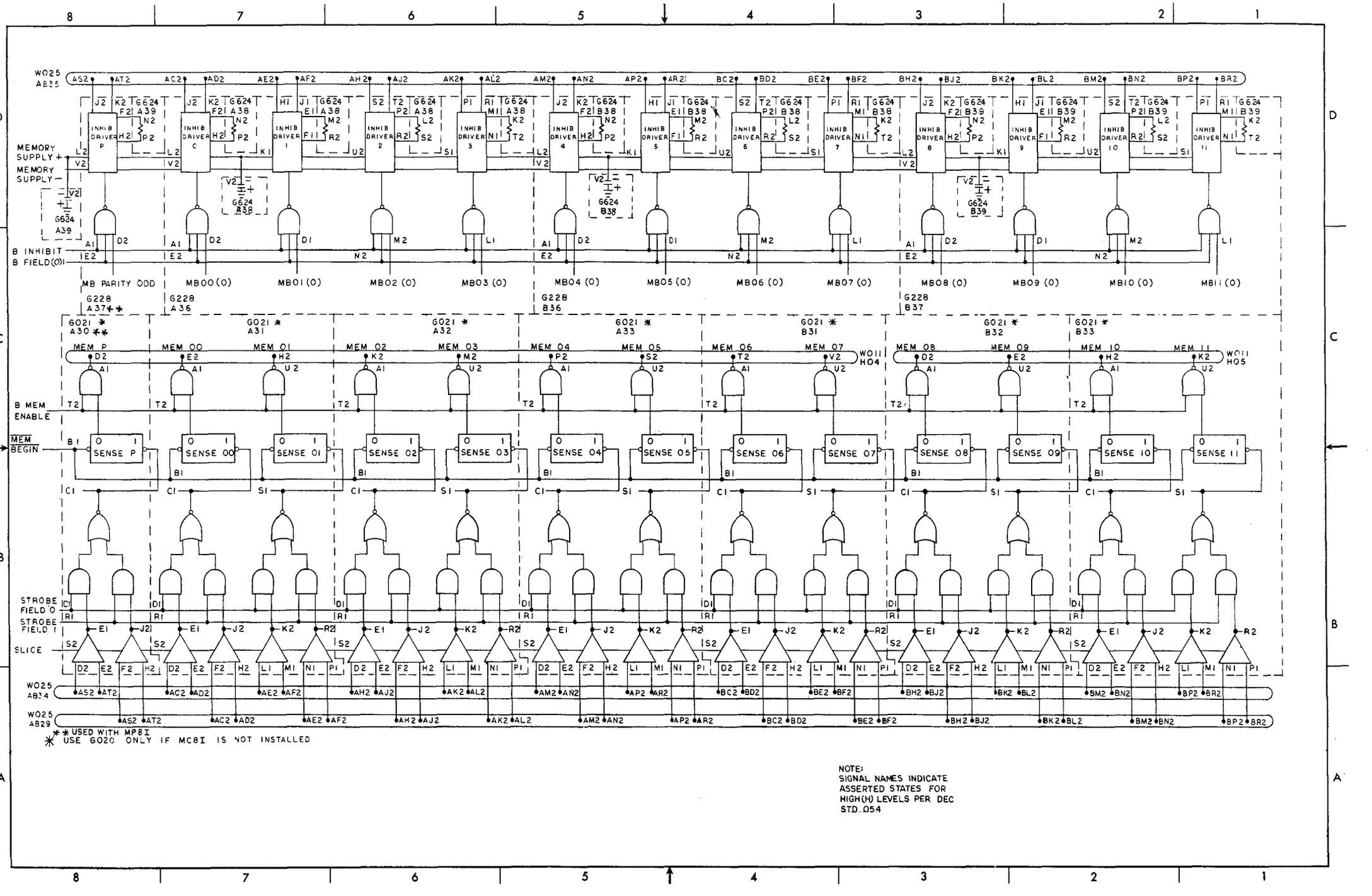

NOTE:
SIGNAL NAMES INDICATE
ASSERTED STATES FOR HIGH (H)
LEVELS PER DEC STD 054
TT0
TT1
TT2
TT3
TT4
TT5
TT6
TT7
TTI SKIP
EK2
ER2
ES2
EL1
EM1
EP2
ET2
EN2
FH2
FD2
IOP1(1)
EF2
KEYBOARD FLAG
+3V
TTI 0
TTI 1
TTI 2
TTI 3
TTI 4
TTI 5
TTI 6
TTI 7
EK1
EJ2
ER1
ES1 TTI SHIFT
PRESET
7440
FR1
TTI CLOCK
FK2 TTI SHIFT
IN ACTIVE (1)
CLOCK SCALE 2 (1)
FU1
EM2
START ENABLE
KEYBOARD SELECT
IOP2 (1)
FJ2
FE2
TT AC CLEAR
FD1
EE2 KCC
INITIALIZE
FF2
+3
TTI SHIFT
SPIKE DETECTOR (1)
MB03 (0) ED2
MB04 (0) EE1
MB05 (0) EF1
MB06 (0) EH1
MB07 (1) EH2
MB08 (1) EJ1
EL2
IOP4 (1)
KEYBOARD SELECT
W076 J12
FM2
V2
E2
MEMORY SUPPLY-1 (-30V)
ST
EU2
M2
IN STOP 2 (0)
FR2
IN LAST UNIT
TTI SHIFT
TTI 7 (0)
CLOCK SCALE 0
CLOCK SCALE 1
CLOCK SCALE 2
TTI CLOCK
ENI
FS1
FT2
PRESET
FS2
FU2
IN STOP 1
FV2
IN STOP 2
FP2
FN2
IN ACTIVE
SPIKE DETECTOR
READER RUN
EV2 KCC
TTI SHIFT
IN ACTIVE (0)
IN LAST UNIT (0)
START ENABLE
TTI SHIFT
IN LAST UNIT (1)
M706
EO1
FO1



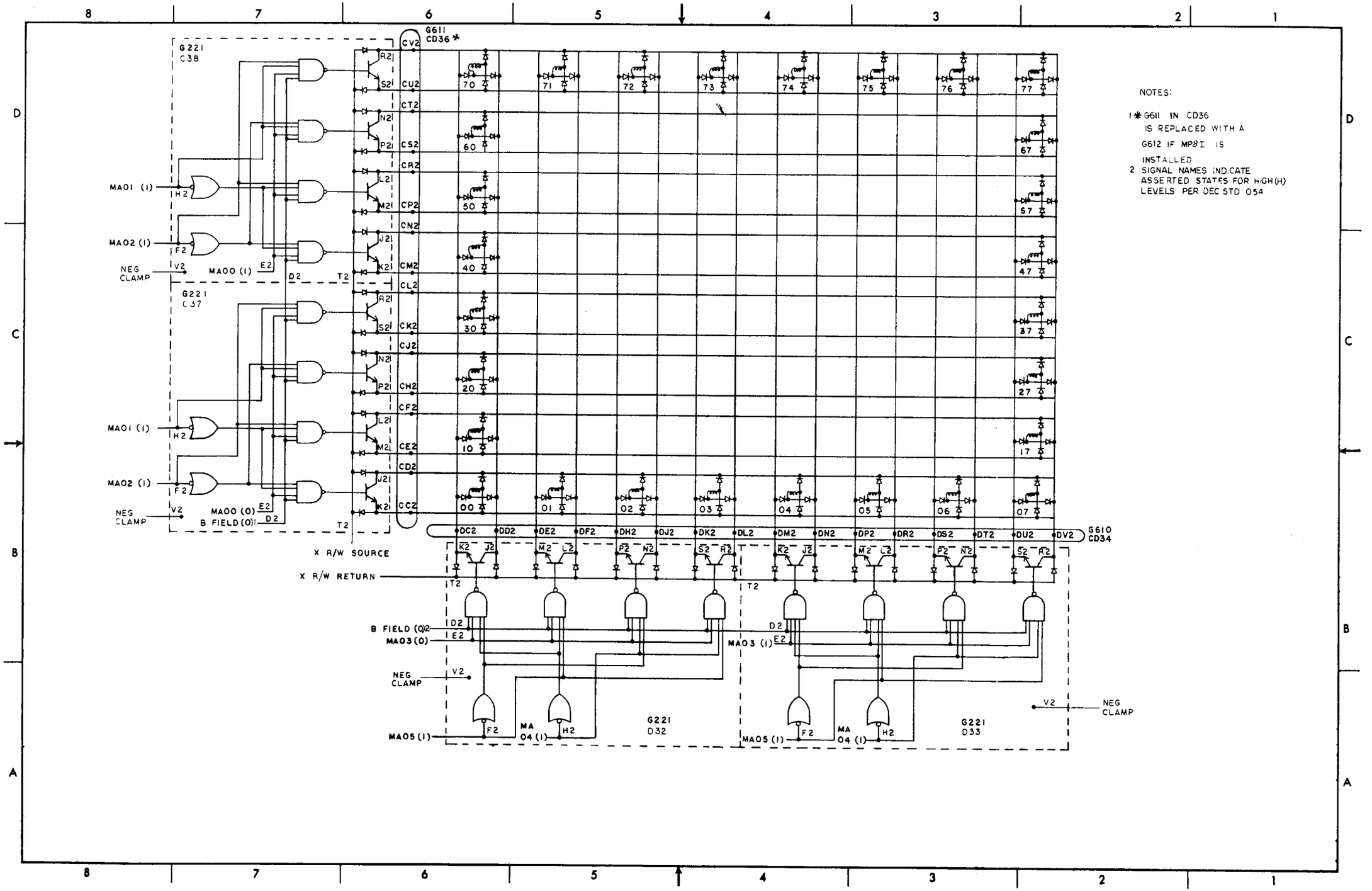
D-BS-8I-0-12 Teletype Transmitter



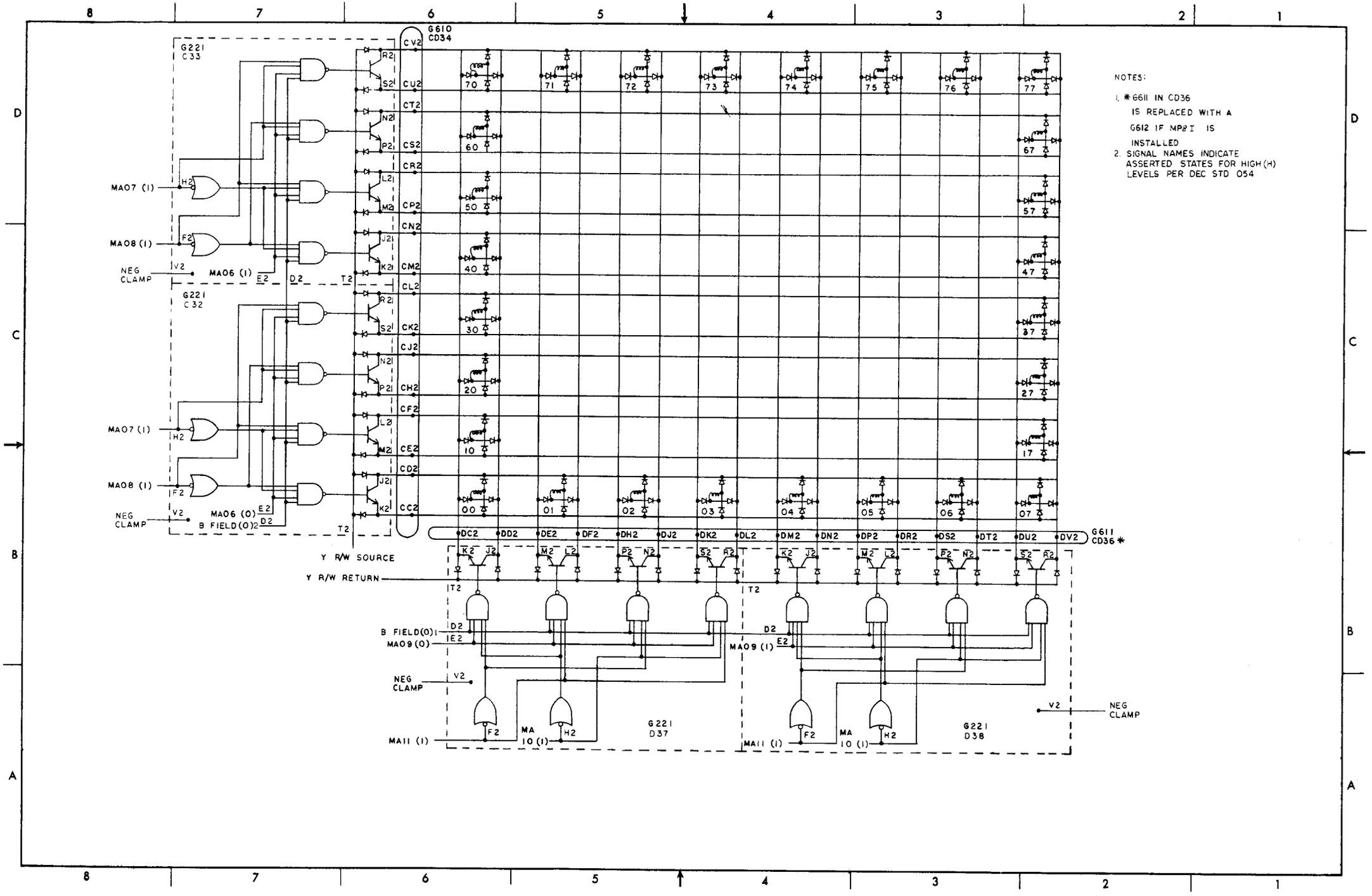
D-BS-8I-0-13 Memory Control



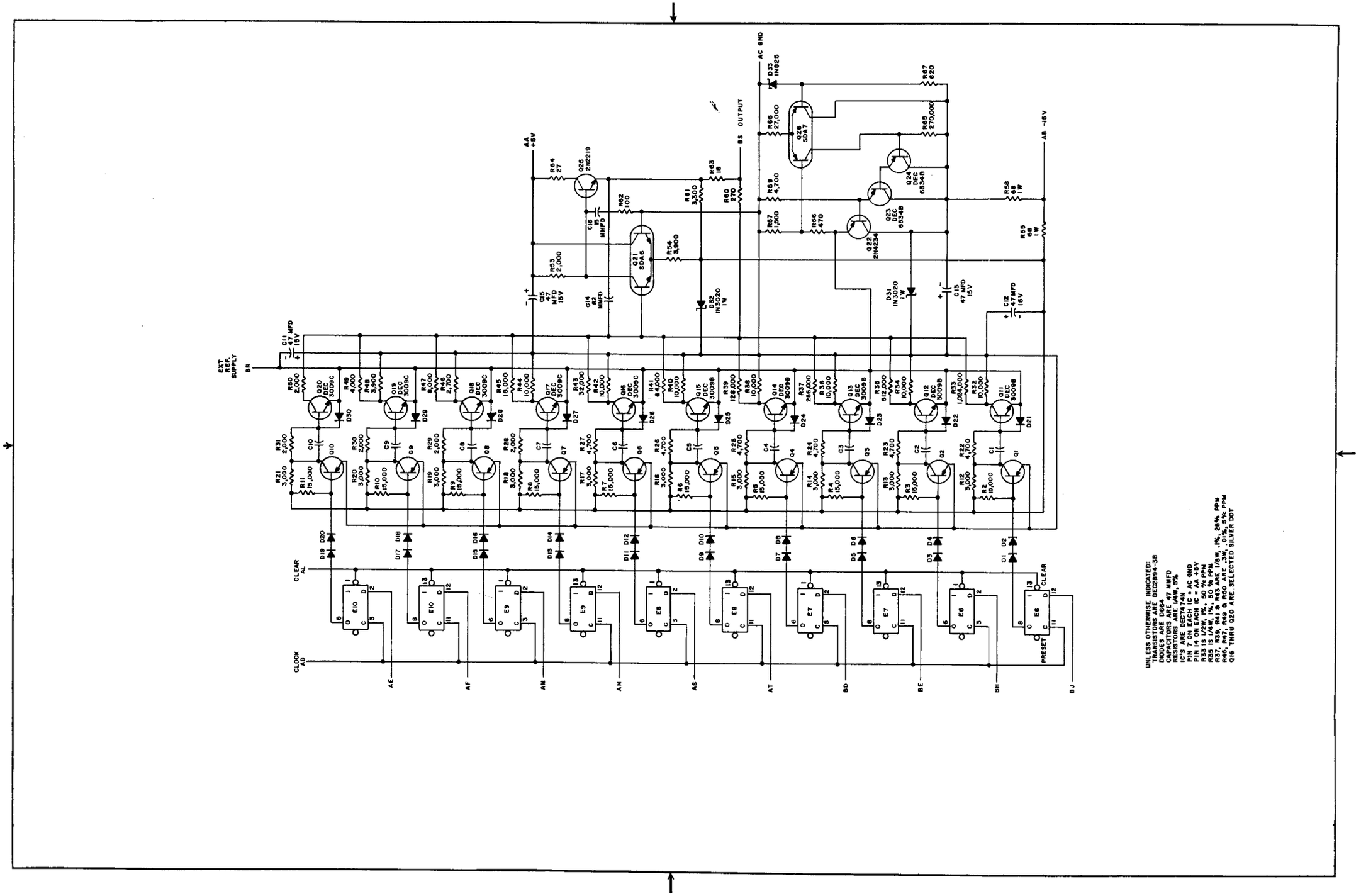
D-BS-8I-0-14 Sense Amps and Inhibit Drivers



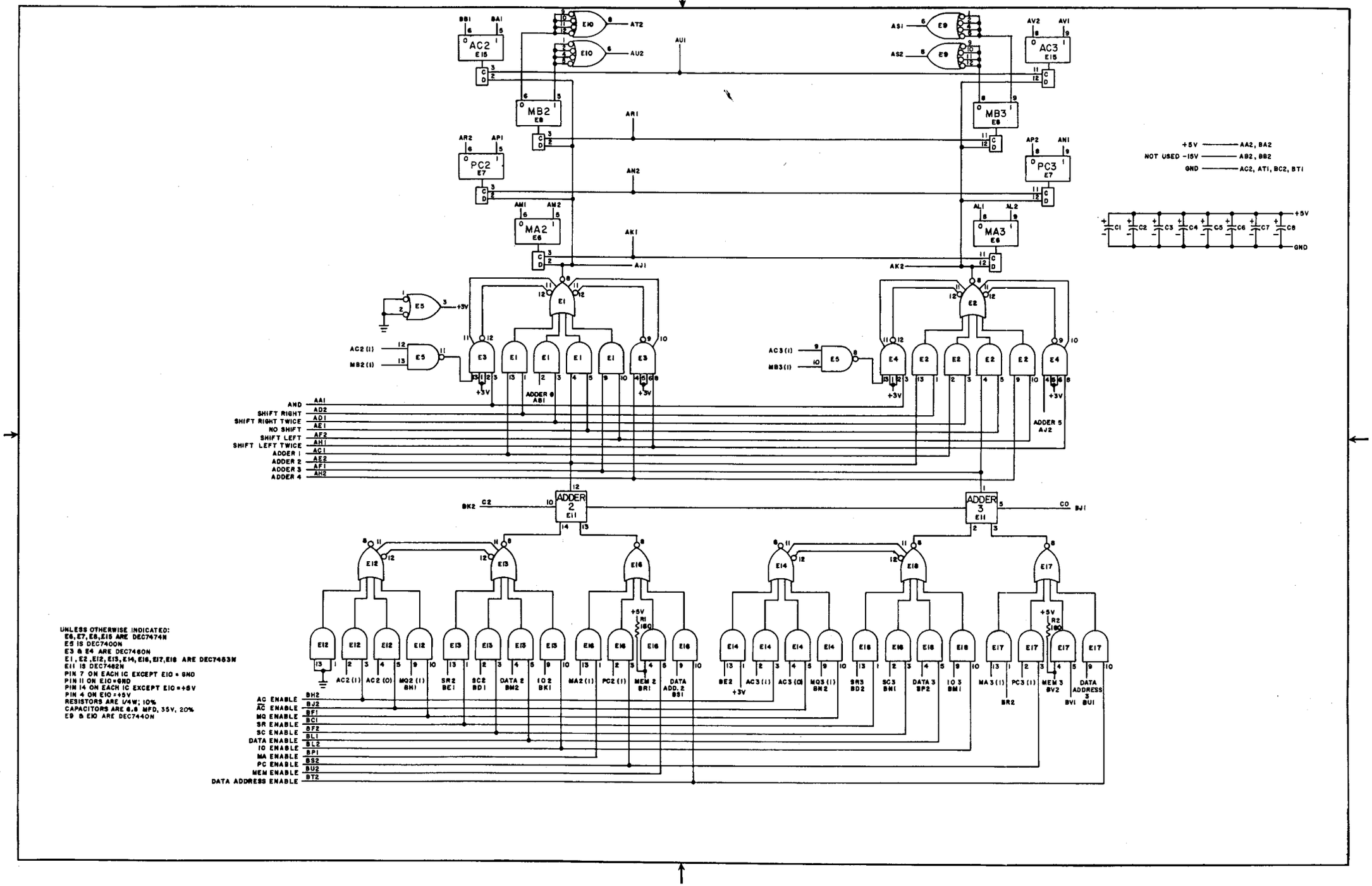
D-BS-8I-0-15 X Axis Selection



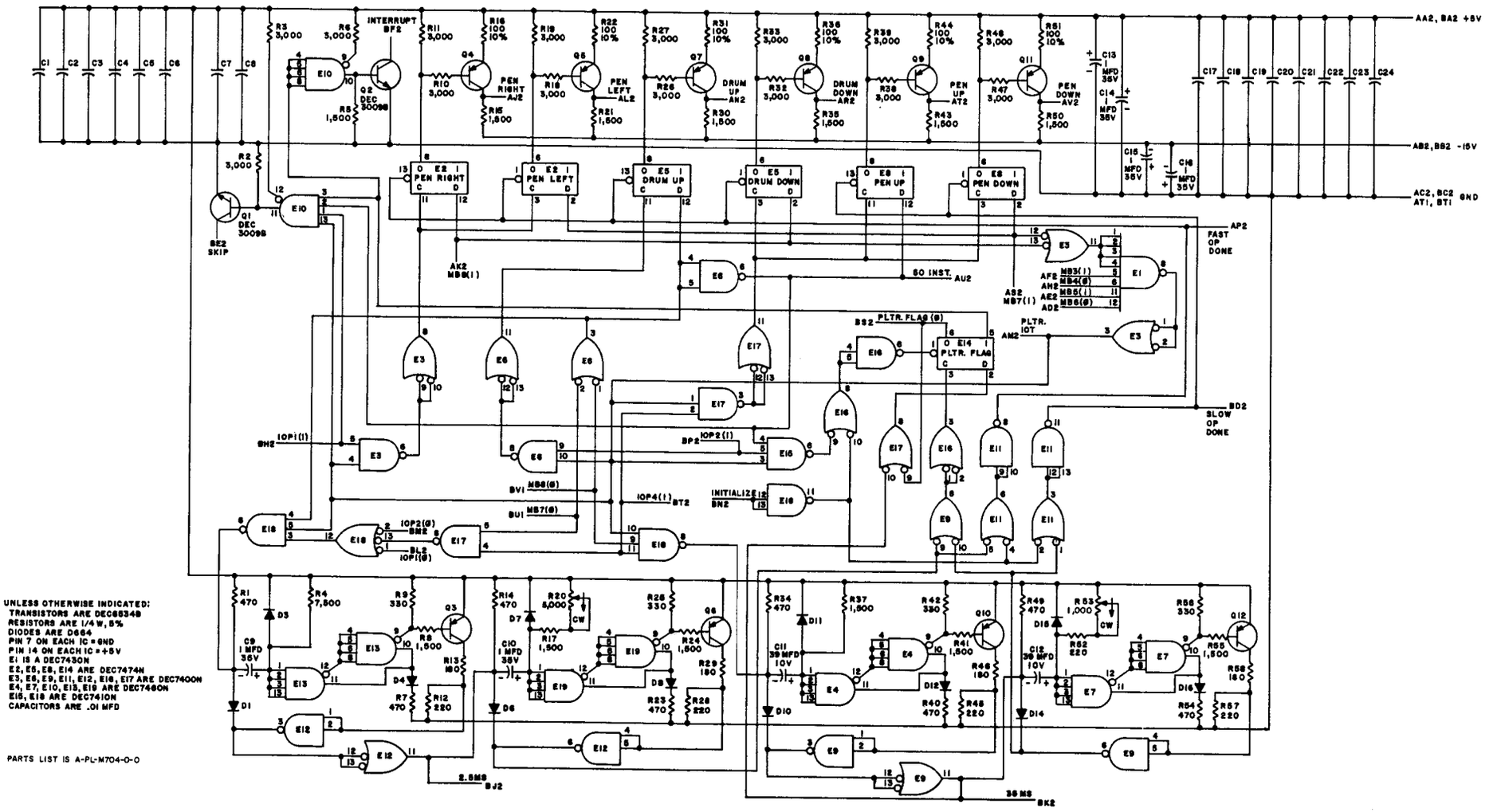
D-BS-8I-0-16 Y Axis Selection



D-CS-A607-0-1 10 Bit D-A Converter



UNLESS OTHERWISE INDICATED:
E6, E7, E8, E15 ARE DEC7474N
E5 IS DEC7400N
E3 & E4 ARE DEC7460N
E1, E2, E12, E13, E14, E16, E17, E18 ARE DEC7453N
E11 IS DEC7482N
PIN 7 ON EACH IC EXCEPT E10 = GND
PIN 11 ON E10=GND
PIN 14 ON EACH IC EXCEPT E10 = +5V
PIN 4 ON E10 = +5V
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE 6.8 MFD, 35V, 20%
E9 & E10 ARE DEC7440N



D-CS-M704-0-1 Plotter Control