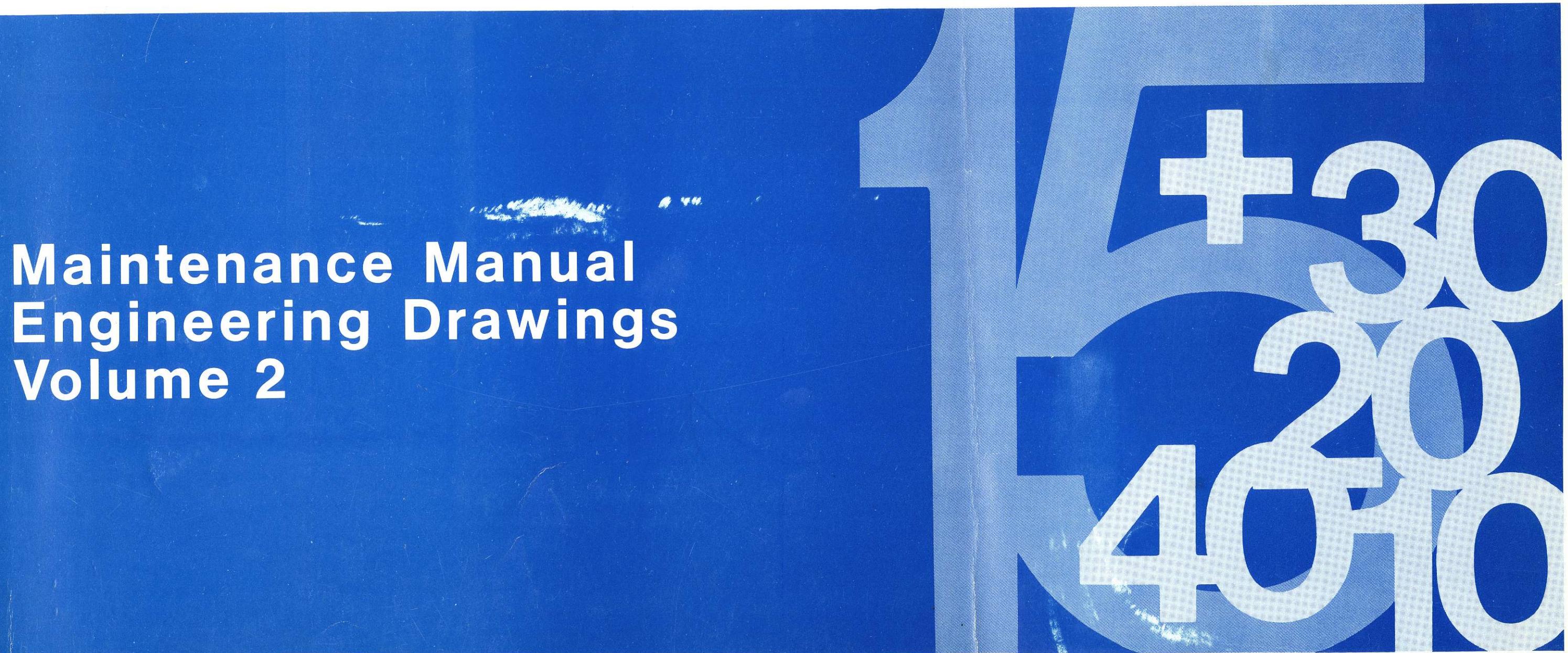


PDP-15 Systems



DEC-15-H2BB-D

**PDP-15
MAINTENANCE MANUAL
ENGINEERING DRAWINGS
VOLUME 2**

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

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PDP-15

Engineering Drawings

NOTE

Throughout the text and block schematic prints, block schematic references are noted in short form. For example, "D-BS-KP15-0-32" is shortened to "KP32" and "D-BS-KE15-0-04" is shortened to "KE04".

INTRODUCTION

Volume 2 of the PDP-15 maintenance manual includes a set of engineering drawings for the basic processor and options.

ENGINEERING DRAWING ORGANIZATION

All PDP-15 systems, from the basic PDP-15/10 through the disk-oriented background/foreground PDP-15/40 system are organized into four main sections: central processor (CP), core memory, input/output (I/O) processor, and console. The designations of these sections are: KP15 Central Processor, MM15 Memory, KD15 I/O Processor and KC15 Console. Additional options that may be implemented in a system are: KE15 Extended Arithmetic Element, KA15 Automatic Priority Interrupt, KM15 Memory Protect, MP15 Memory Parity, KT15 Memory Protect/Relocate, KW15 Real Time Clock, and KF15 Power Fail. Each engineering drawing is assigned a coded drawing identification number that indicates the type of drawing, applicable section, and series.

For example, the drawing identification number D-FD-PDP-15-0-4 provides the following information:

- D "D" size (22 x 34 inches)
- FD Flow diagram (drawing type)
- PDP-15 Pertains to overall PDP-15 system
- 0 Manufacturing variation
- 4 The fourth in a series of overall system flow diagrams.

As a second example, the drawing identification number D-BS-KP15-0-32 provides the following information:

- D "D" size
- BS Block schematic (Drawing type)
- KP15 Pertains to KP15 Central Processor

The short form references are only for reader convenience. Use the complete drawing number to order a specific print.

Drawing Codes

The codes assigned to each type of engineering drawing are listed in the following chart.

Type Code	Definition	Type Code	Definition
AD	Assembly drawing	IC	Interface cabling diagram
AR	Arrangement drawing	ML	Master drawing list
BD	Block diagram	MU	Module utilization drawing
BS	Block schematic	PL	Parts list
CD	Cable diagram	SP	Specification
CL	Cable list	TD	Timing diagram
CP	Component list	UA	Unit assembly
CS	Circuit schematic	WD	Wiring diagram
FD	Flow diagram	WL	Wire list

Drawing Number Index

Table 1-1 is an index to the engineering drawing arranged by section and drawing number in alphanumeric order.

Signal Glossary

Table 1-2 is a signal glossary arranged in alphanumeric order. The signal glossary includes the short form block schematic print number (DRAWING) that shows how the signal is developed.

The ORIGIN column indicates the module location and output pin number for test purposes. The FUNCTION column provides a brief description of the purpose of the signal. The signal glossary is

not intended to be a complete list of signal mnemonics. Many of the mnemonics are self-explanatory and easily interpreted, once the reader is familiar with the signal mnemonic conventions which are described in the section titled SIGNAL NAMES.

LOGIC SYMBOLS

The logic modules used in the PDP-15 are primarily DEC M-series, which is the integrated circuit, positive logic series. The voltages used are:

Low (L) = 0V (0V — +0.4V)
High (H) = +3V (+2.4V — +3.6V)

For specific information on operating frequencies, loading etc., refer to the PDP-15 Module Manual. The logic symbology used is MIL-STD-806B. The gating symbols use small circles at the inputs of gates to indicate that a low signal activates the function. The absence of a circle indicates that a high signal activates the function. The presence or absence of a circle at the output of a gate indicates that the output is low (L) or high (H), respectively, when the gate has been activated (its output is true). An output is false if it is at a voltage different from that shown by the gate's polarity indicator (presence or absence of circle). Suffixes L or H indicate the low or high level of a signal when it is true or enabled.

Logic Gates

Boolean Functions are symbolized as follows:

Symbol	Function
*	Logic AND
+	Logical OR (inclusive)
-	Logical negation

The most commonly used gating symbols are the NAND (Figures 1 and 2); NOR (Figures 3 and 4), and the inverter (Figures 5 and 6). Each figure shows both the symbol and a Boolean expression of the logical operation it performs.

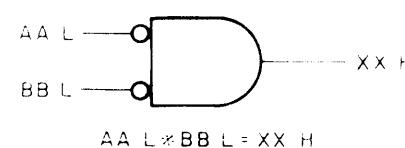


Figure 1 NAND Gate

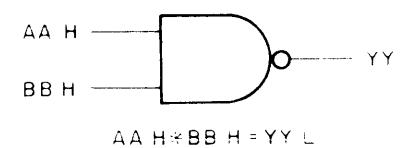


Figure 2 NAND Gate

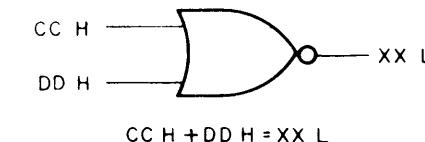


Figure 3 NOR Gate

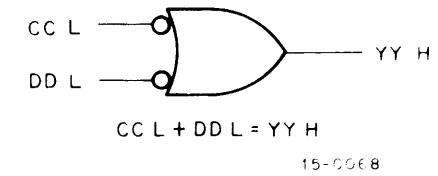


Figure 4 NOR Gate

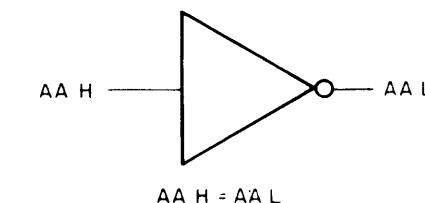


Figure 5 Inverter

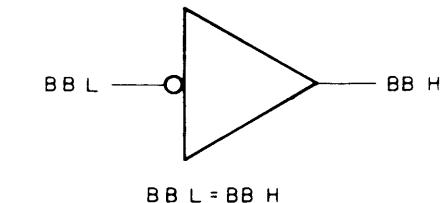


Figure 6 Inverter

Some of the logic gate symbols consist of combinations of basic logic functions, as shown in Figure 7. The logic functions of these gates can be determined by combining the basic logic functions.

Flip-Flops

A major part of the work accomplished by the computer's logic is performed by flip-flops. Figures 8 through 10 illustrate the types of flip-flops used in the PDP-15 Systems.

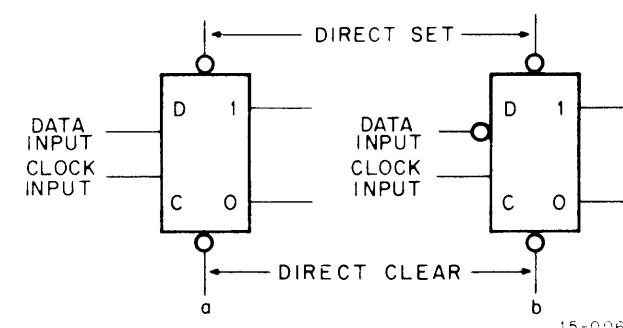


Figure 8 D Flip-Flop, Edge-Triggered

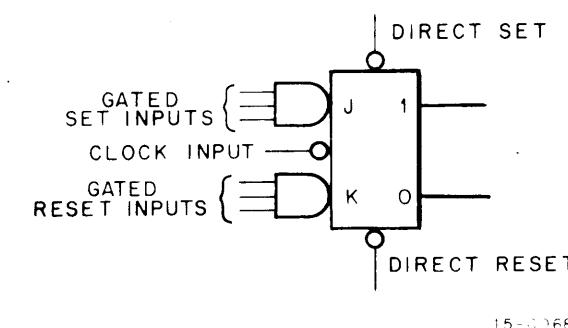


Figure 9 J-K Flip-Flop

The flip-flop in Figure 8a requires a high data input when clocked to set; the flip-flop in Figure 8b requires a low data input to be set. The D flip-flop will be drawn on the logic diagrams to agree with the voltage level of the data input necessary to set the flop.

Figure 9 shows the J-K flip-flop. The flop has direct set and reset inputs, and clock-gated set and reset inputs. If both gated inputs are high when the flop is clocked, the flop will complement.

The flip-flop in Figure 10a can be reset by either one of two inputs; the flip-flop in Figure 10b has the OR gate on its set side.

Variable Clock

The PDP-15 uses variable clocks to generate timing signals and control gating functions. Figure 11 shows a typical variable clock symbol.

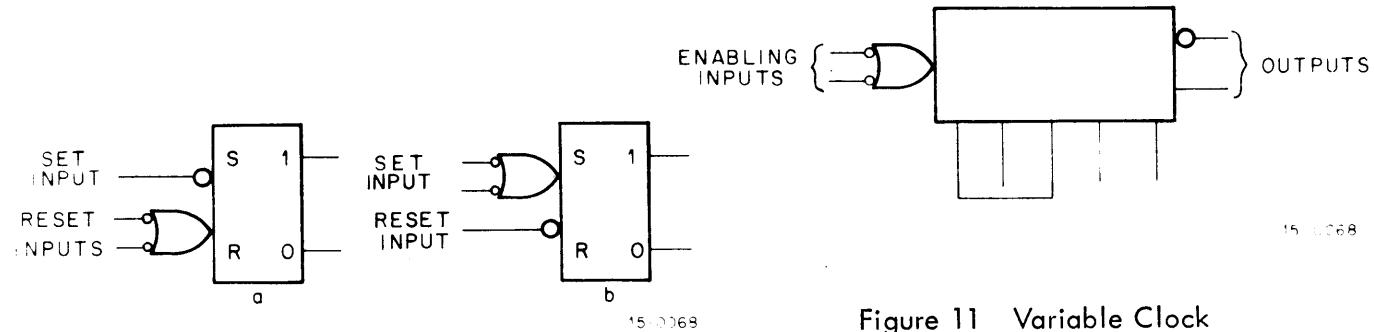


Figure 10 R-S Flip-Flop

Pulse Amplifier

The symbol for a typical pulse amplifier used in the PDP-15 is shown in Figure 12.

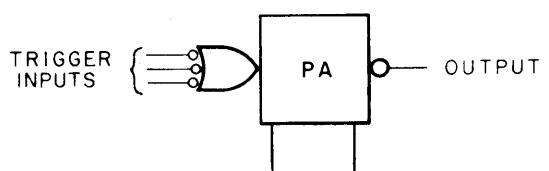


Figure 12 Pulse Amplifier

Miscellaneous Logic Symbols

Figures 13 through 15 show additional logic symbols that appear in the PDP-15 engineering drawing block schematics.

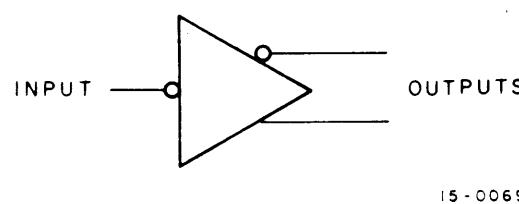


Figure 13 I/O Bus Receiver

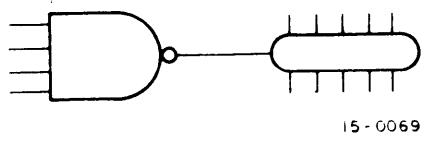


Figure 14 Delay

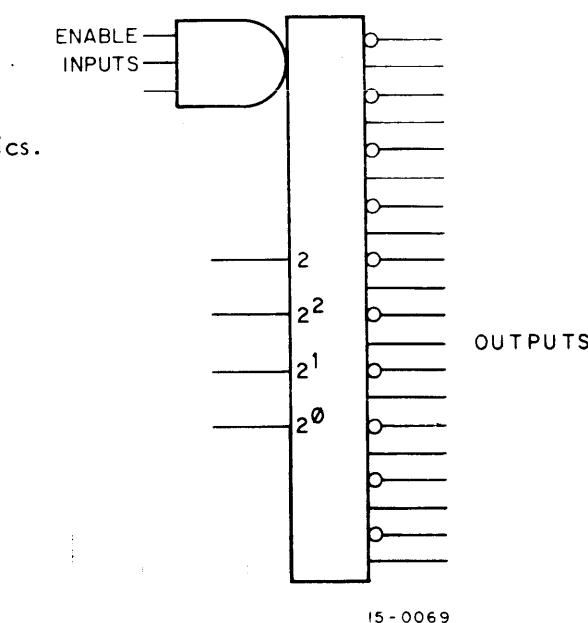


Figure 15 Binary to Octal Decimal Decoder

SYMBOL DESIGNATORS

Each logic symbol that appears on an engineering drawing block schematic contains designators that indicate the type of module used to perform the logic function, the physical location of the specific module used, and the electrical input and output pin connections that are used by that logic function.

The symbol designators used on the NAND gate shown in Figure 16 provide the following information:

- M112 The NAND gate is provided by an M112 module.
- L18 The module is installed in location L18.
- P1,R1 Input logic signals are applied to pins P1 and R1 on the module.
- S1 The output logic signal is available at pin S1 on the module.

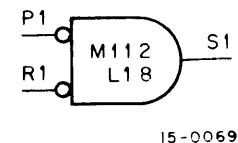


Figure 16 Gate Symbol Designators

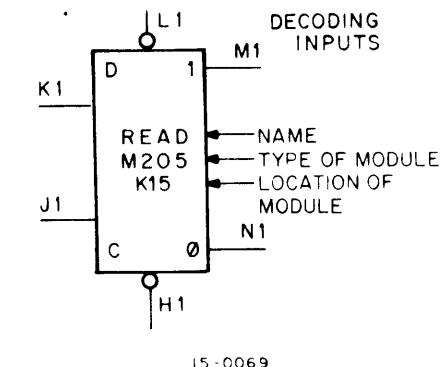
In addition to the information listed above, flip-flop symbol designators include a name, such as READ, as shown in Figure 17.

SIGNAL NAMES

All signal mnemonics that appear on the block schematics include a prefix, signal mnemonic, and signal level indicators, as shown in Figure 18. The signal mnemonic provides the following information:

- a. The prefix indicates the short form print number where the signal originated. KP32 indicates the signal is developed as shown on print 32 of the KP15 Central Processor section.
- b. The signal mnemonic (RD RST) is usually an abbreviation of the complete signal name (read restart).
- c. The signal level indicator (H or L) indicates whether the signal is active when high (+3V) or low (0V).

Figure 17 Flip-Flop Symbol Designators



When the signal is developed by a flip-flop, a (1) or (0) is included to indicate the flip-flop state required to provide the active signal. For example, KP32 CP ACT(1)H will be high (+3V) when the CP ACT flip-flop shown on KP32 is set. The source of this signal is the true (1) output of the CP ACT flip-flop. The signal convention allows this same signal to be designated KP32 CP ACT(0)L when it is applied as an active input to a low input type of gate.

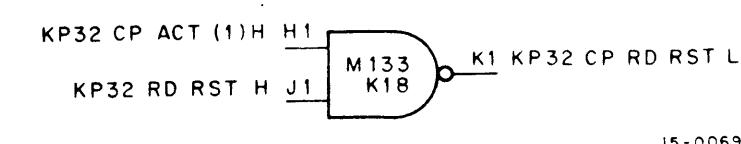


Figure 18 Typical Signal Names

Name Changes

If a flip-flop output is passed through an inverter (possibly for fan-out purposes) the signal name is changed to avoid confusion as to the signal origin. Refer to Figure 19. Logically, the KP64 IN STOP 02(1)L signal is equivalent to KP64 IN STOP 02(0)L but a new name is assigned for identification purposes.

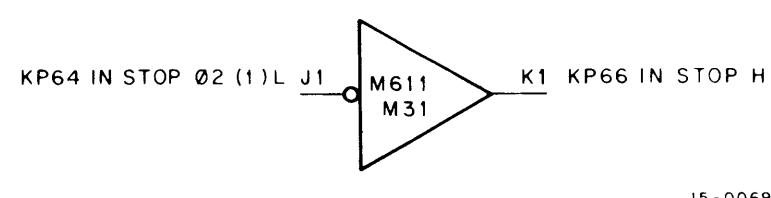


Figure 19 Signal Name Changes

Negated Signals

Negated signals are indicated by a dash that precedes the signal name. For example, when a signal called KP23 INC PC H is inverted, the output becomes — KP23 INC PC H. This convention is used

when the signal is applied as an activating input to a high input gate. The signal is logically equivalent to KP23 INC PC L. The latter expression is used when the signal is applied as an activating input to a low input gate.

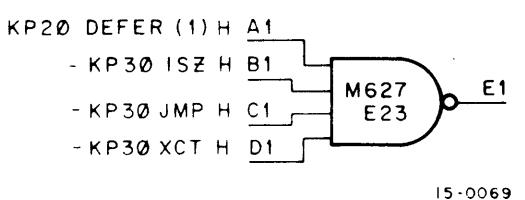


Figure 20 Negated Signals

An example of negated signals applied to a NAND gate is shown in Figure 20.

Disable Signals

Refer to Figure 21. A true output, logic 0, from gate A causes gate B to be disabled.

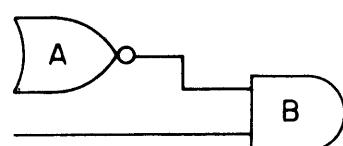


Figure 21 Disable Signal

Table 1-1
Drawing Number Index

Size (Original)	Type	Number	Title
E	UA	PDP15-0-0	PDP-15 Assembly
A	PL	PDP15-0-0	PDP-15 Assembly Parts List
D	DI	PDP15-0-1	Drawing Index List
D	AR	PDP15-0-2	System Configuration
D	IC	PDP15-0-3	Signal Wiring
D	IC	PDP15-0-14	Power Wiring
KC15A Console Assembly			
E	IA	5408392-0-0	Switch Board
D	CS	5408392-0-1	Circuit Schematic
D	IA	5408394-0-0	Console Light Board
D	CS	5408394-0-1	Console Indicator Panel Circuit Schematic
KP15 I/O and Central Processor			
D	MU	KP15-0-102	Module Utilization
D	BS	KP15-0-1	Register and Bus Bit 00
D	BS	KP15-0-2	Register and Bus Bit 01
D	BS	KP15-0-3	Register and Bus Bit 02
D	BS	KP15-0-4	Register and Bus Bit 03
D	BS	KP15-0-5	Register and Bus Bit 04
D	BS	KP15-0-6	Register and Bus Bit 05
D	BS	KP15-0-7	Register and Bus Bit 06
D	BS	KP15-0-8	Register and Bus Bit 07
D	BS	KP15-0-9	Register and Bus Bit 08
D	BS	KP15-0-10	Register and Bus Bit 09
D	BS	KP15-0-11	Register and Bus Bit 10
D	BS	KP15-0-12	Register and Bus Bit 11
D	BS	KP15-0-13	Register and Bus Bit 12
D	BS	KP15-0-14	Register and Bus Bit 13
D	BS	KP15-0-15	Register and Bus Bit 14
D	BS	KP15-0-16	Register and Bus Bit 15
D	BS	KP15-0-17	Register and Bus Bit 16

Table 1-1 (Cont)
Drawing Number Index

Size (Original)	Type	Number	Title
		KP15 I/O and Central Processor (Cont)	
D	BS	KP15-0-18	Register and Bus Bit 17
D	BS	KP15-0-19	Major Bus Control Logic
D	BS	KP15-0-20	Major State Generator
D	BS	KP15-0-21	Time State Generator
D	BS	KP15-0-22	Link and Link Control
D	BS	KP15-0-23	Skip Control
D	BS	KP15-0-24	Register Strobes
D	BS	KP15-0-25	Indicator Strobes
D	BS	KP15-0-26	Memory Mpx
D	BS	KP15-0-27	CP/Memory Interface Cables
D	BS	KP15-0-28	Operate Decoding
D	BS	KP15-0-29	Index Instruction Bus Control
D	BS	KP15-0-30	Major Instruction Decoding
D	BS	KP15-0-31	Instruction Register
D	BS	KP15-0-32	Memory Interface Control
D	BS	KP15-0-33	Detect X Mode and C Bus
D	BS	KP15-0-34	Console Interface
D	BS	KP15-0-35	Interrupt Control Logic
D	BS	KP15-0-38	I Bus 00-08, M1, M2, MQ
D	BS	KP15-0-39	I Bus 00-08, EAE, DSR
D	BS	KP15-0-40	I Bus 09-17, MQ, M1, M2
D	BS	KP15-0-41	I Bus 09-17, EAE, DSR
D	BS	KP15-0-42	I Bus 08, 10-17, SC
D	BS	KP15-0-43	I Bus 18-23, IR
D	BS	KP15-0-44	Console Control No. 1
D	BS	KP15-0-45	Console Control No. 2
D	BS	KP15-0-46	Miscellaneous Control Logic
D	BS	KP15-0-47	Memory Input Control
D	BS	KP15-0-48	Miscellaneous Logic
D	BS	KP15-0-49	CP Read In Logic
D	BS	KP15-0-50	Device Selector

Table 1-1 (Cont)
Drawing Number Index

Size (Original)	Type	Number	Title
		KP15 I/O and Central Processor (Cont)	
D	BS	KP15-0-51	I/O Control Sync
D	BS	KP15-0-52	I/O Bus Bits 09-17
D	BS	KP15-0-53	I/O Bus Bits 00-08
D	BS	KP15-0-55	IOT and Time Logic
D	BS	KP15-0-57	Power Fail and Real Time Clock
D	BS	KP15-0-58	Internal IOT Decoder
D	BS	KP15-0-59	MDL Drivers
D	BS	KP15-0-60	I Bus 00-08
D	BS	KP15-0-62	I Bus 09-17
D	BS	KP15-0-64	Teletype Receiver
D	BS	KP15-0-65	Teletype Transmitter
D	BS	KP15-0-66	Read In Logic
D	BS	KP15-0-68	I/O Address
D	BS	KP15-0-69	I/O Bus Cable
D	FD	KP15-0-70	KP15 Block Diagram and Print Key
D	FD	KP15-0-71	PDP-15 Address Calculation Flow Chart
D	FD	KP15-0-72	Indicator Bus Signal Chart
D	FD	KP15-0-73	Key Flow
D	FD	KP15-0-74	Interrupt Flow Graph
D	FD	KP15-0-75	Read In Flow
D	FD	KP15-0-76	Instruction Flow Chart
D	TD	KP15-0-77	API/PI Timing Diagram Bus Signals
D	TD	KP15-0-78	CP/Memory Timing
D	TD	KP15-0-79	CP Timing, Common Events
D	TD	KP15-0-80	IOT Instruction Timing Diagram
D	BS	KP15-0-81	Power Regulator and OK Bus
		KD15 Data Channel	
D	BS	KD15-0-01	DSR 00-05
D	BS	KD15-0-02	DSR 06-11
D	BS	KD15-0-03	DSR 12-17

Drawing Number Index

Size (Original)	Type	Number	Title
KD15 Data Channel (Cont)			
D	BS	KD15-0-04	I/O Buffer 00-08
D	BS	KD15-0-05	I/O Buffer 09-17
D	BS	KD15-0-06	Miscellaneous Data Channel Logic
D	TD	KD15-0-07	Single Cycle I/O Transfers, Detailed Timing
D	TD	KD15-0-08	Three-Cycle Data Channel In Transfer, Detailed Timing
D	TD	KD15-0-09	Increment MB Transfer, Detailed Timing
D	TD	KD15-0-10	Three-Cycle Data Channel Out Transfer, Detailed Timing
D	TD	KD15-0-11	Data Channel Input Timing Diagram, Bus Signals
D	TD	KD15-0-12	Data Channel Output Timing Diagram, Bus Signals
D	TD	KD15-0-13	Single Cycle Input Timing, Bus Signals
D	TD	KD15-0-14	Single Cycle Output Timing, Bus Signals
D	TD	KD15-0-15	Increment Memory Timing Diagram, Bus Signals
KE15 Extended Arithmetic Element (EAE)			
D	BS	KE15-0-01	Bi-directional Shift Register 00-08 (MQ Reg.)
D	BS	KE15-0-02	Bi-directional Shift Register 09-17 (MQ Reg.)
D	BS	KE15-0-03	Step Counter and Control
D	BS	KE15-0-04	EAE Control M770
D	BS	KE15-0-05	IR Sign Divide Logic
D	FD	KE15-0-06	EAE Flow Diagram
D	FD	KE15-0-07	Data Flow Diagram
MM15 Core Memory			
D	MU	MM15-0-26	Module Utilization
D	DI	MM15-0-25	MM15 Drawing Index
D	BS	MM15-0-01	Memory Control

Drawing Number Index

Size (Original)	Type	Number	Title
MM15 Core Memory (Cont)			
D	BS	MM15-0-02	Memory Control
D	BS	MM15-0-03	MA and MB Registers, 00-05
D	BS	MM15-0-04	MA and MB Registers, 06-11
D	BS	MM15-0-05	MA and MB Registers, 12-17
D	BS	MM15-0-06	X Axis, 0 to 4K
D	BS	MM15-0-07	Y Axis, 0 to 4K
D	BS	MM15-0-08	X Axis, 4 to 8K
D	BS	MM15-0-09	Y Axis, 4 to 8K
D	BS	MM15-0-10	Sense Amplifiers and Inhibit Drivers, 0-4K
D	BS	MM15-0-11	Sense Amplifiers and Inhibit Drivers, 0-4K
D	BS	MM15-0-12	Sense Amplifiers and Inhibit Drivers, 0-4K
D	BS	MM15-0-13	Sense Amplifiers and Inhibit Drivers, 4-8K
D	BS	MM15-0-14	Sense Amplifiers and Inhibit Drivers, 4-8K
D	BS	MM15-0-15	Sense Amplifiers and Inhibit Drivers, 4-8K
D	BS	MM15-0-16	Memory Bus Drivers
D	BS	MM15-0-17	Memory Bus Drivers
D	BS	MM15-0-18	Memory Bus Drivers
D	BS	MM15-0-19	I/O Memory Cables
D	BS	MM15-0-20	Memory Power Regulators
D	BS	MM15-0-21	Timing Diagram
D	BS	MM15-0-22	X Diode Matrix
D	BS	MM15-0-23	Y Diode Matrix
D	BS	MM15-0-24	Parity Bit
Power Supplies			
D	CS	715-0-1	715 Power Supply Circuit Schematic
B	CS	5408408-0-1	Bulk Regulator Circuit Schematic
C	CS	716-0-1	716 Power Supply Circuit Schematic
D	CS	H721-0-1	H721 Power Supply Circuit Schematic
B	CS	734D-0-1	734D Power Supply Circuit Schematic
A	PL	734D-0-1	734D Power Supply Parts List

Table 1-1 (Cont)
Drawing Number Index

Size (Original)	Type	Number	Title
Power Supplies (Cont)			
B	CS	799A-0-1	799A Power Supply Circuit Schematic
A	PL	799A-0-0	799A Power Supply Parts List
B	CS	841-B	841B Power Control Circuit Schematic
A	PL	841-B-0	841B Power Control Parts List
B	CS	853-F-1	853F Power Supply Circuit Schematic
A	PL	853-F-0	853F Power Supply Parts List
BB15 Peripheral Expander			
D	DI	BB15-0-01	BB15 Drawing Index List
D	MU	BB15-0-04	Module Utilization List
KA15 Automatic Priority Interrupt (API)			
D	BS	KA15-0-01	Requests
D	BS	KA15-0-02	Priority Levels 00-03
D	BS	KA15-0-03	Priority Levels 04-07
D	BS	KA15-0-04	API Control
D	BS	KA15-0-05	Test Request
D	BS	KA15-0-06	I/O Address Gating
D	BS	KA15-0-07	API Cables
D	BS	KA15-0-08	I/O Bus Receivers
D	BS	KA15-0-09	Miscellaneous Drivers
D	BS	KA15-0-10	I Bus Drivers
D	BS	KA15-0-11	I/O Bus Drivers
KM15 Memory Protect Option			
D	BS	KM15-0-10	Control Logic
D	BS	KM15-0-11	IOT and Control
D	BS	KM15-0-12	P Mode Enable
D	BS	KM15-0-13	Boundary Register and Boundary Detection No. 1
D	BS	KM15-0-14	Boundary Register and Boundary Detection No. 2

Table 1-1 (Cont)
Drawing Number Index

Size (Original)	Type	Number	Title
KM15 Memory Protect Option (Cont)			
D	BS	KM15-0-15	BB15 Jumper Card Configuration
KT15 Memory Protect/Relocate Option			
D	BS	KT15-0-10	MDL Control
D	BS	KT15-0-11	Relocation Register
D	BS	KT15-0-12	Relocate MDL's
D	BS	KT15-0-13	I/O Bus or BR
D	BS	KT15-0-14	RA Buffers and MDL Terminators
D	BS	KT15-0-15	Relocation Address Register 01-06
D	BS	KT15-0-16	Relocation Address Register 07-09
MP15 Memory Parity Option			
D	BS	MP15-0-10	Parity Control
D	BS	MP15-0-11	Parity Input Interface
D	BS	MP15-0-12	Parity Decoder and Parity Generator
D	BS	MP15-0-13	Parity Memory Bus Connections
BA15 Peripheral Expander			
D	MU	BA15-0-07	Module Utilization
D	DI	BA15-0-08	BA15 Drawing Index List
D	IC	BA15-0-01	I/O Bus Interface
D	BS	BA15-0-02	BA15 Line Receivers
D	BS	BA15-0-03	BA15 Line Drivers
D	BS	BA15-0-04	I/O Mixer
D	BS	BA15-0-05	Multiplexer
D	IC	BA15-0-06	Indicator Cable
PC15 High-Speed Paper Tape Reader and Punch			
D	BS	PC15-0-01	High Speed Punch Control
D	BS	PC15-0-02	High Speed Reader Control
D	BS	PC15-0-03	Reader Register

Table 1-1 (Cont)
Drawing Number Index

Size (Original)	Type	Number	Title
		LT15A Single TTY Interface	
D	BS	LT15-A-01	Teletype Control
D	BS	LT15-A-02	Teletype Receiver
D	BS	LT15-A-03	Teletype Transmitter
		VP15 Display Logic	
D	BS	VP15-0-1	Display D/A & Dev Sel
D	BS	VP15-0-2	Display Control BA15
D	IC	VP15-BL-1	Interconnection Diagram
		DW15A Positive-to-Negative Bus Converter	
D	BS	DW15-A-1	BI Direct I/O Bus
D	BS	DW15-A-2	BI Direct I/O Bus
D	BS	DW15-A-3	AP DCH RQ + BI BS CON
D	BS	DW15-A-4	API + DCH Enables
D	BS	DW15-A-5	API + DCH Grants
D	BS	DW15-A-6	I/O Addr 03-10
D	BS	DW15-A-7	I/O Addr 11-17
D	BS	DW15-A-8	One Way Signals
D	BS	DW15-A-9	Positive Input Cables
D	BS	DW15-A-10	Positive Bus Cables
D	BS	DW15-A-11	Negative Bus Cables
D	MU	DW15-A-12	Module Utilization

Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
ADD-MEM	KD05	M17-L1	Adds contents of I/O bus to memory location specified by current address and writes new value into memory location.
ADD 1	KD04	N18-V2	Increment data storage register during word count and current address cycles in three cycle DCH Transfers and during increment memory breaks.
ADR ACK	MM02	A18-H2	Acknowledges memory address has been accepted and memory cycle has started. Refer to memory timing diagram MM21.
API CAL	KP31	N11-C1	Indicates CAL for Automatic Priority Interrupt.
API SYNC	KP51	N22-V2	Recognizes API request from API option and allows I/O Processor to synchronize with CPU during API break.
BAC-C 00-08, 09-17	KP19	F10-J2 F11-J2	Gates contents of buffered AC to C bus.
BACK-TO-BACK	KD06	M21-L1	Used for single cycle transfers to designate that two or more successive breaks will be made without returning control to CPU.
BANK MODE	KP46	M27-V1	Output of bank mode flop that selects memory bank or page mode of operation.
BANK 1 AVAIL	KP45	N25-E2	27.5 µs pulse active during last half of console time slot 3. Clocks active key input from console into associated key flop.
BUMP IOT	KP51	N20-K2	Used by I/O processor to reset IOT flop for any priority higher than IOT request.
BUS DONE	MM02	A20-J2	Set by MRLS ACK to release MDL. Shown on memory timing diagram MM21.
C-A BUS	KP19	F16-S1	Gates C bus to A bus.
-C-A BUS	KP19	F30-S1	Gates complemented C bus to A bus.
CA	KD04	N23-M1	Signal specifies current address portion of the DCH multicycle break is in progress.
CA DLYD	KD06	L31-N1	Used for internal timing during three cycle DCH transfer. Clears the I/O memory hold flop during current address cycle, causing an I/O memory request to be available.
CARRY	KP22	F02-S1	Carry sets link if L (0) and resets link if L (1).
CARRY 01	KD03	H13-D1	Carry insert to more significant adder from previous 6-bit adder.
CARRY 02	KD02	H13-D1	
CDL 00 through 23	KP44 KP45		Buffered console data lines from I Bus.

Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
CF PULSE	KP45	N24-M2	Clock signal for KEY ACTIVE flop. For START, DEPOSIT, EXAMINE, READ IN, CONT and EXECUTE non-repeat, clock signal is 27.5-µs pulse active during console time slot 4. For REPEAT, CONT, and EXECUTE, clock signal occurs at repeat clock frequency.
CLK IN	KP46	N28-D2	A 36-kHz signal, from clock oscillator, that is used to generate console timing.
CLK SYNC	KP51	N17-U1	Causes multiplexer to issue clock address (000008) on I/O address lines.
CLR IR 00-05	KP31	F31-J1	Clears IR register if FORCE FETCH, KEY ACTIVE, or PWR CLR occurs.
CONSOLE CK	KP45	N25-U2	Non-symmetrical 3-kHz output of console modulo 6 counter that drives console timing failure detector.
CONSOLE DLY 1	KP44	M26-K1	Provides 18-ms delay for console clock failure detection (for failure in ground state).
CONSOLE DLY 2	KP44	N26-K1	Provides 18-ms delay for console clock failure detection (for failure in +V state).
CONSOLE DLY 3	KP45	N25-H1	Connects R-C network to delay stage to provide 120 - 130 ms delay that prevents gating of more than one pulse for switch active input from console.
CONSOLE FAIL	KP46	N27-K2	Output of console failure detector that monitors operation of console timing. Inhibit timing outputs to console switch and indicator circuits if a failure occurs.
CONSOLE LOCKED	KP46	K03-L2	A ground level from console lock switch on 715 Power Supply that prevents program interruption at the console.
CONSOLE ONE	KP45	E22-01	Non-symmetrical 3-kHz square wave. Used with Console Zero and Console Two signals to generate strobes for console switch and indicator circuits.
CONSOLE TWO	KP45	E22-10	A 9-kHz symmetrical square wave used with Console Zero and Console One signals to generate strobes for console switch and indicator circuits.
CONSOLE ZERO	KP45	E22-04	Used with Console One and Console Two signals to generate strobes for console switch and indicator circuits.
CONTINUE	KP45	E08-05	Output of CONT ENABLE flop used to set KEY ACTIVE flop.

Signal Glossary

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
CP ACT	KP26	K13-P1	Initiates CP memory cycle and inhibits I/O ACT until memory cycle is completed.
CP MEM REQ HOLD	KP32	K13-H1	Stores memory request until CP ACT can be set to initiate a CP M REQ.
CP MRLS	KP32	K15-M1	CP memory release; indicates CP done with memory.
CP WR ADR ACK	KP32	F12-J2	Acknowledges memory address during a CP initiated clear-write memory cycle.
DATA CYCLE	KD05	M17-P2	Used during data cycle of 3-cycle DCH transfer.
DATA IN	KD05	M17-S1	Generated during 3-cycle DCH transfer to indicate data transfer from device to memory.
DATA OFLO	KD05	M21-S1	Signal used by I/O device to indicate an incorrect sum has occurred due to an overflow occurring during the third cycle of an add-to-memory operation.
DATA OUT	KD05	M17-V2	Generated during 3-cycle DCH transfer to indicate data transfer from memory to device.
DCH DONE	KD05	K31-K2	Indicates completion of a DCH transfer.
DCH EN IOP2	KD06	N18-L2	Used during 3-cycle data transfer to enable data onto I/O bus from device.
DCH OUT XFER	KD06	K18-V2	Indicates transfer of data from memory to device during 3-cycle DCH transfer and also causes IOP 4 to be generated.
DCH RESET	KD05	K31-N2	Is generated as a result of I/O Reset or Power Clear to initialize the DCH circuitry.
DCH REQ	KP69	N03-S2	A signal generated by an external device indicating a 3-cycle DCH transfer, an increment memory, or an add-to-memory. The signal is also used with SINC CYC REQ to indicate a single cycle transfer as indicated below: DCH RQ L SING CYC REQ L FUNCTION 0 0 None 0 1 Single cycle transfer (from memory to device) 1 0 Multi-cycle transfer (in or out) 1 1 Single cycle transfer (from device to memory)

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
DCH SYNC	KP51	N23-H2	Acknowledges receipt of request from control device by causing GRANT to be issued. The signal also causes the multiplexer to issue an I/O request to memory.
DCH WAIT	KD05	N12-N2	Causes I/O processor to wait until after DCH transfers from memory to device has been completed.
DEPOSIT	KP45	M25-M2	DEPOSIT flop output used to set KEY ACTIVE flop.
DISABLE SYNC	KD06	N32-M1	During DCH transfers, this signal allows time for I/O Processor to finish processing current DCH transfer and prevents I/O synchronizer from setting PI, API, or Clock flops.
DISPLAY STATUS	KP44	M26-M1	55- μ s pulse active during console time slot 001. Gates I/O Bus 01, 02, and 08 through 17 and status of I/O devices to I Bus.
DS-C	KP19	F14-E1	Gates data switch buffer contents to the C bus during TS02 when DEPOSIT, NEXT, or EXEC key is pressed or OAS is executed.
DSR-I/O BUS	KD05	M21-P2	Data in DSR to be transferred to I/O Bus.
DSR - MDL	KD04	M20-L1	Data in DSR to be transferred to MDL.
DSR00 - DSR17	KD01 KD02 KD03		Data storage register bits 00 through 17.
DSR OVERFLOW	KD01	H13-D1	Carry out of most significant stage of DSR. Used to set word count overflow indicating completion of block transfer of data during 3-cycle DCH operation.
EAC	KP22	E08-R2	Enables ones complement end around carry when set by CARRY.
ENB CYCLE	KD05	M17-E1	Enables data cycle for three cycle DCH transfer and determines whether data is transferred to or from.
EN CA	KD06	L21-F1	Used to enable current address cycle of 3-cycle DCH transfer. This signal is inhibited during single cycle break, clock break or Increment MB.
END OF CP CYCLE	KP32	K16-L2	Indicates end of central processor memory cycle.
EN RD	KD04	N12-F2	Sets I/O WRITE flop indicating a transfer from an external device to memory.
EX SW	KP45	N25-E1	EXECUTE flop output used to set KEY ACTIVE flop.
EXAMINE	KP45	M25-U2	Output of EXAMINE flop used to set KEY ACTIVE flop.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
GRANT	KD06	M22-J2	Signal generated by I/O Processor to acknowledge receipt of request from external device.
HOLD MO	KP26	K15-J2	Prevents contents of MO register from being removed from MDL until a CP memory cycle is initiated.
INC CA	KP68	N10-P1	Used to inhibit incrementing current address during DCH transfer.
IN XFER CYCLE	KD05	M17-H2	Used to denote data transfer position of the DCH cycle.
INCR PC	KP23	F23-J1	Increments program counter during TS01 of EXECUTE when SKIP is set.
INH	MM02	A19-S1	Gates data from MB register to inhibit drivers during write half-cycle. Shown on memory timing diagram MM21.
INH PC COUNT	KP24	F32-S2	Inhibits program counter incrementation if an execute switches instruction is in progress, an interrupt has been acknowledged or key functions are in progress.
I BUS 00 through 23	KP46		Bi-directional data lines between console panel and central processor.
I/O ACT	KP26	K14-H1	Part of the Memory Synchronization for the I/O Processor.
I/O ADDR ACK	KD04	M31-M1	Derived from ADR ACK when I/O is enabled. Clears M REQ.
I/O ADDR 03-17	KP68		I/O Address bit 03 through bit 17.
I/O ADR 15, 16, 17	KD03 KD03 KD03	K19-C1 K19-F2 K19-N2	When bits 15, 16 and 17 are logic 1, the real time clock address of 000007 is developed.
I/O ADDRESS - DSR	KD04	K27-E1	Gates I/O address to DSR.
I/O BUF-DSR	KD05	M12-M1	Gates contents of I/O buffer to DSR.
I/O CYCLE REQ	KD04	L10-S2	Indicates that I/O Processor is requesting a memory cycle.
I/O DATA ACK	KD04	M20-E1	This signal is generated in the I/O Processor and is sent to memory indicating that the processor has received the data from memory during a read-write cycle.
I/O ENABLE	KP32	M13-C1	Enables I/O processor functions when power is on and I/O ACT is set.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
I/O M HOLD	KD04	M23-E1	Used during DCH transfers to temporarily store M REQ signal while the I/O Processor and memory are being synchronized.
I/O M REQ	KP26	K15-E1	Set to initiate an I/O memory request.
I/O MRLS	KD04	M20-H2	Signal generated by I/O processor during DCH transfers indicating that I/O processor is completed with current memory cycle and is releasing memory for additional requests.
I/O MRLS ACK	KD04	N18-T2	Response from memory that it has received the I/O MRLS signal.
IOP 1	KP51	N17-L1	Decoded from bit 17 of IOT instruction. This signal is used for skip instructions to test a device flag or other control function.
IOP 2	KP51	N17-H2	Decoded from bit 16 of IOT instruction. This signal is generally used to transfer data from an external device to the processor, to clear a device register, or for other control functions excluding skip sensing.
IOP 4	KP51	N17-E1	Decoded from bit 15 of IOT instruction. This signal is generally used to transfer data from the CPU to the device and cannot be used to transfer data from the device to the CPU or to determine a skip condition.
I/O RD RST	KP26	K18-F2	This signal is generated in memory and indicates to the I/O Processor that the information contained in the address, which was on the MDL when M REQ was issued, can now be read from the MDL.
I/O READ	KD04	M20-P2	Indicates that data is being read from memory to external device via the I/O Processor.
I/O RESET	KP45	E02-09	I/O RESET flop output used with STOP condition to clear major registers and control devices.
I/O WRITE	KD04	M20-S1	Indicates that data from external device is being written into memory.
IND A BUS	KP44	E01-08	55-μs pulse active during console time slot 001. Gates contents of accumulator to I Bus.
IND AC	KP44	E01-11	55-μs pulse active during console time slot 001. Gates contents of accumulator to I Bus.
IND B BUS	KP44	E16-06	55-μs pulse active during console time slot 001. Gates B Bus to I Bus.
IND C BUS	KP44	E16-08	55-μs pulse active during console time slot 001. Gates C Bus to I Bus.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
IND DSR	KP44	E07-11	55-μs pulse active during console time slot 001 for gating content of Data Storage Register to I Bus.
IND EAE	KP44	E07-03	55-μs pulse active during console time slot 001. Gates discrete bits of EAE control functions to I Bus.
IND I/O A	KP44	E13-08	55-μs pulse active during console time slot 001. Gates 15 bits of I/O address to I Bus 03 through 17.
IND IOB	KP44	E04-03	55-μs pulse active during console time slot 001 for gating I/O Bus to the I Bus.
IND LR	KP44	E10-11	55-μs pulse active during console time slot 001. Gates contents of Limit Register onto I Bus.
IND OA	KP44	E16-11	55-μs pulse active during console time slot 001. Gates contents of Memory Address Register in CP onto I Bus.
IND MDL	KP44	E07-08	55-μs pulse active during console time slot 001. Gates Memory data lines to I Bus.
IND MMA	KP44	E04-06	55-μs pulse active during console time slot 001. Gates content of Memory Address Register onto I Bus.
IND MMB	KP44	E04-08	55-μs pulse active during console time slot 001. Gates content of Memory Buffer Register (MMB) onto I Bus.
IND MO	KP44	E01-03	55-μs strobe active during console time slot 001. Gates contents of Memory Output Register onto I Bus.
IND MQ	KP44	E13-03	55-μs pulse active during console time slot 001. Gates contents of Multiplier Quotient Register to I Bus.
IND MST	KP44	E10-0	55-μs pulse active during console time slot 001. Gates memory status and states onto I Bus.
IND M1	KP44	E10-08	55-μs pulse active during console time slot 001. Gates CP group I discrete control signals to the I Bus.
IND M2	KP44	E07-06	55-μs pulse active during console time slot 001. Gates CP control discretes to I Bus.
INC PC	KP44	E16-03	55-μs pulse active during console time slot 001. Gates content Program Counter onto I Bus.
IND PL/SC	KP44	E13-11	55-μs pulse active during console time slot 001. Gates status of Priority Level flops and contents of Step Counter to I Bus.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
IND SHIFT BUS	KP44	E13-06	55-μs pulse active during console time slot 001. Gates CP Shift Bus to I Bus.
IND SUM BUS	KP44	E10-06	55-μs pulse active during console time slot 001. Gates Sum Bus to I Bus.
IND XR	KP44	E10-03	55-μs pulse active during console time slot 001. Gates contents of Index Register onto I Bus.
IR00-IR05	KP31	F09-E1, H2, L1, P2, S1, V2	Index register bits IR00-IR05 are loaded from MI00-MI05 during FETCH to store instruction op code.
JAM PC TO MO	KP23	J31-V1	Sets PC contents into MO register during TS01 of EXECUTE if SKIP is not set.
KEY ACT	KP34	F27-J2	Key active flow is set when console function keys are pressed.
KEY READ IN	KP45	E04-08	A level generated by READ-IN flop when READ IN key is on. Used to initiate paper tape read in to memory.
L BM UM-A	KP19	F14-T2	Gates status of link (L), bank mode (BM), and user mode bit (UM) to the A bus. Generated during TS02 (Fetch or Defer) of a group 4 instruction (JMS or CAL).
LD AC	KP24	H04-J2	Load accumulator bits AC00-AC17.
LR-C	KP19	F16-P2	Gates contents of limit register to C bus to test limit register or when XG ENAB LR is low.
LIKE SIGNS	KD06	N32-J2	Used to compare signs of data in I/O buffer (I/O BUF00) and data in memory (MDL 00). In add-to-memory cycle, this signal is used to set DATA OFLO.
MA HOLD	MM02	A18-E1	Set by START to prevent MA register contents from changing, once memory cycle has been initiated. Shown on memory timing diagram MM21.
MA LOAD	MM01	A15-L1	Strobes memory address from MDL to MA register. Refer to memory timing diagram MM21.
MB CLEAR	MM01	A15-S1	Clears MB register at start of memory cycle. Refer to memory timing diagram MM21.
MB LOAD	MM02	A15-J2	Strobes MDL data into MB register during write half-cycle. Shown on memory timing diagram MM21.
-MI-B 00-08	KP19	E07-N2	Gates complemented MI register bits MI00 through MI08 to the B bus.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
-MI-B 09-17	KP19	F14-F2	Gates complemented MI register bits MI09 through MI17 to the B bus.
-MP API RQ	MP10	B15-U2	Automatic priority interrupt request generated by parity error flag.
MPX	KP26	K14-A1	Establishes priority of I/O M REQ if DCH SYNC or CLK SYNC are set.
MQ-C	KP19	F08-V2	Gates contents of MQ register to C bus during EAE instruction.
MRD	KP26	K10-E2, H2	Generated by I/O Read or by START READ (if I/O ACT (0)). Selects read-restore memory cycle.
MRLS ACK	MM02	A18-V2	Acknowledges MRLS after WR EN flop is set. Shown on memory timing diagram MM21.
-MRLS DLY	MP10	A16-J2	Produces INH MRLS to delay memory release until parity is decoded and parity bit is generated.
MWR (memory write)	KP32	K10-K2, M2	Generated by I/O WRITE or by START WRITE if I/O ACT (0). Selects clear-write memory cycle.
NO SHIFT-D	KP19	F15-L1	No shift enabled to D bus. Occurs if current instruction is not an EAE, OPR SHIFT, SWH, or CLA instruction.
ONE CYCLE BK	KD06	M21-E1	This signal indicates a single cycle transfer whereby the external device maintains its own word count and current address.
OPR	KP28	E06-E1	Indicates operate instruction decoded from IR bits IR00-IR04.
OVERFLOW	KP22	F03-C1	Sets link when Sum Bus bit 00 is positive and AC00 and MI00 are same sign.
PAR ERR	MP10	B16-K2	Indicates parity error has been detected.
PC-A 01-02	KP19	J13-U1	Gates program counter bits PC01 and PC02 to the A bus.
PC-A 03-04	KP19	J30-J2	Gates program counter bits PC03 and PC04 to the A bus.
PC-A 05	KP19	E07-S1	Gates program counter bit PC05 to the A bus.
PC-A 06-17	KP19	F18-P2	Gates program counter bits PC06 through PC17 to the A bus.
PI SYNC	KP51	N22-S1	This signal indicates that the I/O Processor has recognized a Program Interrupt and allows the I/O processor to synchronize with the CP.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
PRE MRLS	KD06	N16-K2	Generated a short time after Read Restart. This signal is used to enable DSR-I/O BUS on transfers of data from memory to the device and also acknowledges when the I/O Processor has received the data.
RD CON	MM01	A18-R2	Set by MRD to control read-restore memory cycle. Refer to memory timing diagram MM21.
RD RST	MM02	A19-L1	Indicates data read from memory is available on MDL and the requesting processor can proceed. Shown on memory timing diagram MM21.
RD RST DLY	MP10	A14-F1	Produces INH RD RST to delay read restart until parity has been tested.
RDX	MM02	A19-H1	Generates read current in the selected X drive line. Shown on memory timing diagram MM21.
RDY	MM02	A19-E1	Generates read current in the selected Y drive line. Shown on memory timing diagram MM21.
REG MAINT STROBE	KP45	E21-06	55- μ s pulse active during console time slot 001. Generated when REG GROUP switch is on. Combined with 12 register select inputs from I Bus to generate one of 12 I Bus gating strobes.
REG NORM STROBE	KP45	E21-08	55- μ s pulse active during console time slot 001. Generated when REG GROUP switch is off. Combined with 12 register select inputs from I Bus to generate one of 12 I Bus gating strobes.
REPT VAR IN	KP46	N24-L2	Input from Repetitive Speed potentiometer on console switch panel that controls repetition rate of repeat clock.
REQ	MM01	A12-S1	Produced by M REQ to initiate a memory cycle. Refer to memory timing diagram MM21.
RESTART	KD06	M18-H1	Indicates completion of DCH transfer and clears out DCH and DCH SYNC flops.
RETURN DATA	KD04	L19-L2	Generated by the I/O Processor to indicate a transfer of data from the external device to memory.
RI RD RST	KP32	K30-E1	Re-starts central processor functions after data has been deposited by hardware read in.
RTL-D	KP19	F14-P1	Shifts D bus data left two places. Enabled by RTL during TS02 Fetch.
RTR-D	KP19	F14-L2	Shifts D bus data right two places. Enabled by RTR during TS02 Fetch.

Table 1-2 (Cont)
Signal Glossary

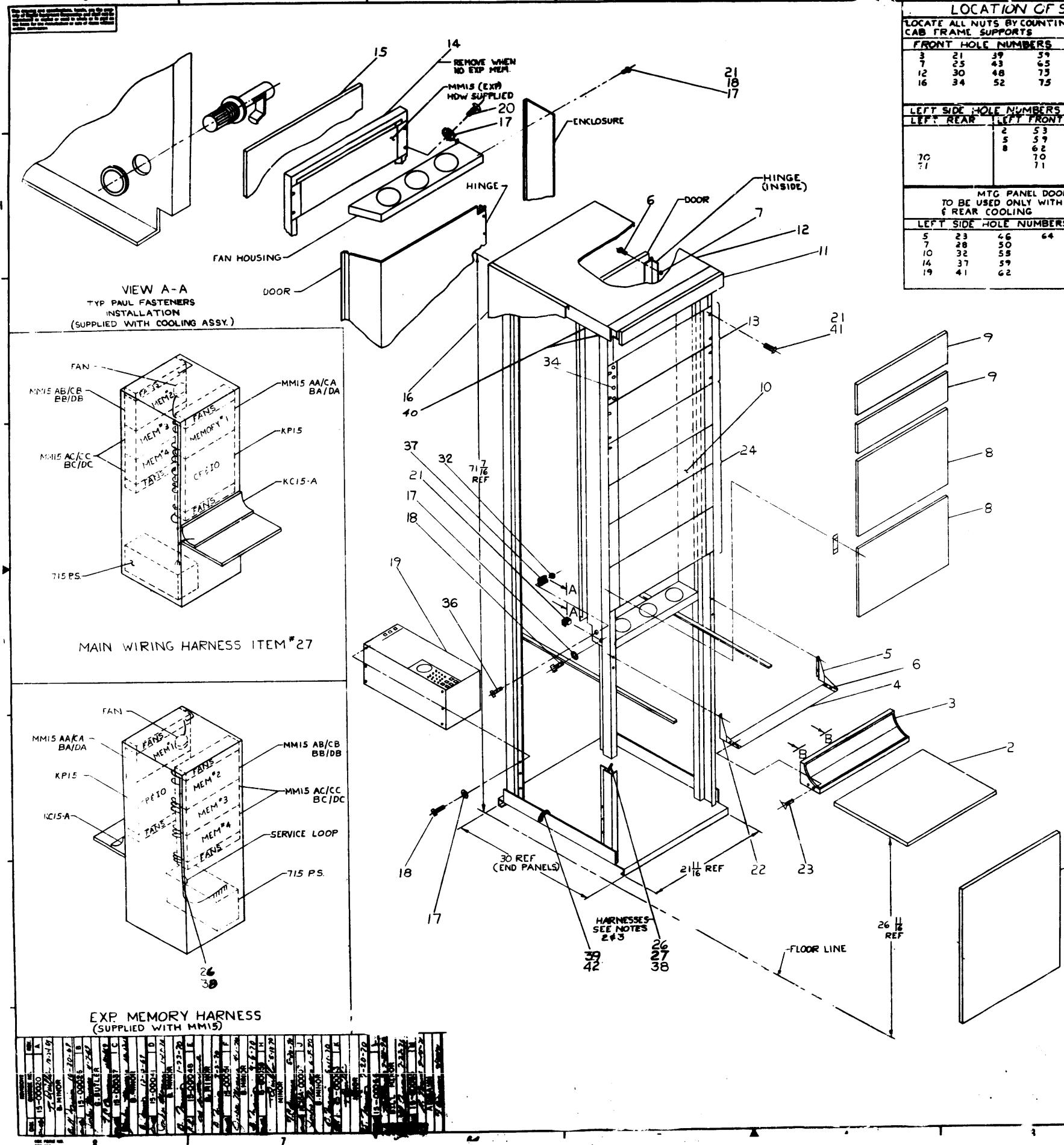
Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
SE (signs equal)	KP22	E08-N1	Indicates when MI and AC bits AC00 and MI00 (sign bits) are same sign. SE flop cleared when bits are opposite sign.
SET DSR-MDL	KD06	N15-F2	Enables contents of DSR to be placed on the MDL during DCH transfers.
SET FETCH	KP20	E22-F2	Enables the FETCH major state flop. Occurs if no other major state is enabled.
SET GRANT	KD06	K18-S2	Used to set the GRANT flop during single cycle back-to-back data transfers.
SING CYC DIR	KD06	M21-H2	This signal determines whether the single cycle transfer direction is to be an "in" transfer (from device to memory) or an "out" transfer (from memory to device). See note on KD06.
SING CYC IOP 4	KD06	M24-K2	Generated during single cycle, back-to-back from memory to the external device.
SING INST	KP46	M27-H2	Output of SING INST flop supplied to time state generator to implement a single instruction.
SING STEP	KP46	M27-L2	Output of SING STEP flop supplied to time state generator to permit the manual stepping of a program through major states of an instruction.
SING TIME	KP46	M27-E1	Output of SING TIME flop supplied to time state generator for manual stepping through time state of each major state.
SKIP	KP23	E08-U2	Causes PC to be incremented by one to skip next instruction.
START	KP45	M25-V2	Output of console START ENABLE flop used to set KEY ACTIVE flop.
START	MM01	A14-V2	Initiates a memory cycle when M REQ is received and no address has been acknowledged previously. Refer to memory timing diagram MM21.
START READ	KP32	F24-J2	Starts a read-restore memory cycle.
START WRITE	KP32	F30-E1	Starts a clear-write memory cycle.
STOP	KP45	M25-K2	STOP flop output terminates CP operation by resetting RUN flop.
STP TM CHAIN	KD05	M22-R2	Stops the I/O clock in Time 2 during memory data transfer. The I/O processor cannot generate IOP 4 until the next Time 1 signal occurs.
STROBE	MM02	C14	Produced by RD CON to gate sense amplifier outputs into MB register.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
STROBE ADDR	KD06	L21-K2	Strobes the address from the I/O Bus to the DSR during DCH transfers.
STROBE ONE	KP46	K32-V1	A 55-μs pulse active during console time slot 2. Gates memory input register, instruction register code and defer and index bits onto I Bus.
STROBE TWO	KP45	N25-K2	55-μs pulse active during console time slot 011. Gates Memory Input Register and Instruction Register contents onto I Bus.
STROBE ZERO	KP45	E18-06	55-μs pulse active during console time slot 000. Gates central processor status to I Bus.
START CA	KD04	L22-L1	Enables current address cycle during a 3-cycle DCH transfer.
STROBE DSR	KD04	M16-S1	Loads DSR with address or data for transfers to or from memory.
STROBE I/O BUF	KD05	M16-J2	Used for DCH transfers from device to memory to strobe the data from the I/O Bus into the I/O Buffer.
STROBE IOP2	KP51	M14-V2	Occurs 750-ns after beginning of IOP2 and is used to load AC from the device during DCH and IOT transfers.
STROBE MRLS	KD06	L18-C1	A signal used to set the MRLS flop in order to release memory for further requests.
STROBE IOP1	KP51	L06-S2	Occurs 750-ns after IOP1 and is used to set the skip flop during DCH and IOT transfers.
STROBE MRLS DLY	KD06	M18-H1	This signal is delayed from strobe MRLS and is used in back-to-back single cycle transfers to strobe the address into the DSR.
SWITCH INHIBIT	KP46	N27-R2	Output of console delay 3 that prevents a second clock pulse to key flops for switch active functions. During run condition, blocks clock signal to key flops.
SYNC	KP55	L23-N1	SYNC occurs at time 1 and is set on the I/O bus by the I/O processor to synchronize the device with the I/O processor.
TIME 1	KP55	N13-J2	250-ns pulse.
TIME 2	KP55	N13-F2	250-ns pulse starting at completion of TIME 1 pulse.
TIME 3	KP55	N13-K1	250-ns pulse starting at completion of TIME 2 pulse.

Table 1-2 (Cont)
Signal Glossary

Signal Mnemonic	Signal Origin		Signal Function
	Drawing	Module	
TIME 4	KP55	N13-M1	250-ns pulse starting at completion of TIME 3 pulse.
WC	KD04	M22-U2	This signal indicates the word count cycle in a 3-cycle DCH transfer.
WC ENABLE	KD04	M22-E1	Indicates entry to word count cycle while I/O processor is synchronizing to memory.
WC OVERFLOW	KD04	M23-J2	Indicates completion of block transfer of data; i.e., desired number of words have been transferred.
WR	MM02	A19-V2	Generates write current in X and Y drive lines. Shown on memory timing diagram MM21.
WR CON	MM01	A18-U1	Set by MWR to control clear-write memory cycle. Refer to memory timing diagram MM21.
WR DONE	MM02	A20-F1	Indicates end of write half-cycle. Shown on memory timing diagram MM21.
WR EN	MM02	A19-P2	Enables write half-cycle to begin 50-ns after RD RST. Shown on memory timing diagram MM21.
WRITE REQ			Signal on MDL indicating transfer of data from Processor to memory.
+1 WC	KP68	N10-L1	Used during word count cycle of 3-cycle DCH transfer to increment the word count each time a word is transferred.
XG ENAB AC	KP29	F18-E1	Enables AC for index register instructions PAX and PAL.
XG ENAB LR	KP29	F18-J2	Enables limit register for index register instructions PLA and PLX.
XG ENAB XR	KP29	F19-E1	Enables index register for index register instructions to PXA and PXL.
XOR-C	KP19	F16-J2	Used to exclusive-OR AC with memory buffer contents during TS02 of XOR, or TS01 of SAD.
XR-B 00-05	KP19	E11-D1	Gates index register bits XR00-XR05 to the B bus.
XR-B 06-17	KP19	M01-H1	Gates index register bits XR06-XR17 to the B bus.
3 CYCLE	KD06	N18-U1	Indicates 3 cycle DCH transfer and is used to clear GRANT flop when address is available.
+1 TO CA INH	KP69	N03-E1	Used during increment memory operation to inhibit incrementing the current address. Produces KP68 - INC CA.



MAIN WIRING & EXP MEM. HARNESS																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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<td>PC BOARD</td> <td>7-329</td> </tr> <tr> <td colspan="2">PDP15</td> <td>60</td> <td>PC BOARD</td> <td>7-330</td> </tr> <tr> <td colspan="2">PDP15</td> <td>61</td> <td>PC BOARD</td> <td>7-331</td> </tr> <tr> <td colspan="2">PDP15</td> <td>62</td> <td>PC BOARD</td> <td>7-332</td> </tr> <tr> <td colspan="2">PDP15</td> <td>63</td> <td>PC BOARD</td> <td>7-333</td> </tr> <tr> <td colspan="2">PDP15</td> <td>64</td> <td>PC BOARD</td> <td>7-334</td> </tr> <tr> <td colspan="2">PDP15</td> <td>65</td> <td>PC BOARD</td> <td>7-335</td> </tr> <tr> <td colspan="2">PDP15</td> <td>66</td> <td>PC BOARD</td> <td>7-336</td> </tr> <tr> <td colspan="2">PDP15</td> <td>67</td> <td>PC BOARD</td> <td>7-337</td> </tr> <tr> <td colspan="2">PDP15</td> <td>68</td> <td>PC BOARD</td> <td>7-338</td> </tr> <tr> <td colspan="2">PDP15</td> <td>69</td> <td>PC BOARD</td> <td>7-339</td> </tr> <tr> <td colspan="2">PDP15</td> <td>70</td> <td>PC BOARD</td> <td>7-340</td> </tr> <tr> <td colspan="2">PDP15</td> <td>71</td> 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<td>PC BOARD</td> <td>7-353</td> </tr> <tr> <td colspan="2">PDP15</td> <td>84</td> <td>PC BOARD</td> <td>7-354</td> </tr> <tr> <td colspan="2">PDP15</td> <td>85</td> <td>PC BOARD</td> <td>7-355</td> </tr> <tr> <td colspan="2">PDP15</td> <td>86</td> <td>PC BOARD</td> <td>7-356</td> </tr> <tr> <td colspan="2">PDP15</td> <td>87</td> <td>PC BOARD</td> <td>7-357</td> </tr> <tr> <td colspan="2">PDP15</td> <td>88</td> <td>PC BOARD</td> <td>7-358</td> </tr> <tr> <td colspan="2">PDP15</td> <td>89</td> <td>PC BOARD</td> <td>7-359</td> </tr> <tr> <td colspan="2">PDP15</td> <td>90</td> <td>PC BOARD</td</td></tr></table>	ITEM USED ON OTHER DRAWINGS		ITEM	DESCRIPTION	PART NO.	PDP15		1	PC BOARD	7-271	PDP15		2	PC BOARD	7-272	PDP15		3	PC BOARD	7-273	PDP15		4	PC BOARD	7-274	PDP15		5	PC BOARD	7-275	PDP15		6	PC BOARD	7-276	PDP15		7	PC BOARD	7-277	PDP15		8	PC BOARD	7-278	PDP15		9	PC BOARD	7-279	PDP15		10	PC BOARD	7-280	PDP15		11	PC BOARD	7-281	PDP15		12	PC BOARD	7-282	PDP15		13	PC BOARD	7-283	PDP15		14	PC BOARD	7-284	PDP15		15	PC BOARD	7-285	PDP15		16	PC BOARD	7-286	PDP15		17	PC BOARD	7-287	PDP15		18	PC BOARD	7-288	PDP15		19	PC BOARD	7-289	PDP15		20	PC BOARD	7-290	PDP15		21	PC BOARD	7-291	PDP15		22	PC BOARD	7-292	PDP15		23	PC BOARD	7-293	PDP15		24	PC BOARD	7-294	PDP15		25	PC BOARD	7-295	PDP15		26	PC BOARD	7-296	PDP15		27	PC BOARD	7-297	PDP15		28	PC BOARD	7-298	PDP15		29	PC BOARD	7-299	PDP15		30	PC BOARD	7-300	PDP15		31	PC BOARD	7-301	PDP15		32	PC BOARD	7-302	PDP15		33	PC BOARD	7-303	PDP15		34	PC BOARD	7-304	PDP15		35	PC BOARD	7-305	PDP15		36	PC BOARD	7-306	PDP15		37	PC BOARD	7-307	PDP15		38	PC BOARD	7-308	PDP15		39	PC BOARD	7-309	PDP15		40	PC BOARD	7-310	PDP15		41	PC BOARD	7-311	PDP15		42	PC BOARD	7-312	PDP15		43	PC BOARD	7-313	PDP15		44	PC BOARD	7-314	PDP15		45	PC BOARD	7-315	PDP15		46	PC BOARD	7-316	PDP15		47	PC BOARD	7-317	PDP15		48	PC BOARD	7-318	PDP15		49	PC BOARD	7-319	PDP15		50	PC BOARD	7-320	PDP15		51	PC BOARD	7-321	PDP15		52	PC BOARD	7-322	PDP15		53	PC BOARD	7-323	PDP15		54	PC BOARD	7-324	PDP15		55	PC BOARD	7-325	PDP15		56	PC BOARD	7-326	PDP15		57	PC BOARD	7-327	PDP15		58	PC BOARD	7-328	PDP15		59	PC BOARD	7-329	PDP15		60	PC BOARD	7-330	PDP15		61	PC BOARD	7-331	PDP15		62	PC BOARD	7-332	PDP15		63	PC BOARD	7-333	PDP15		64	PC BOARD	7-334	PDP15		65	PC BOARD	7-335	PDP15		66	PC BOARD	7-336	PDP15		67	PC BOARD	7-337	PDP15		68	PC BOARD	7-338	PDP15		69	PC BOARD	7-339	PDP15		70	PC BOARD	7-340	PDP15		71	PC BOARD	7-341	PDP15		72	PC BOARD	7-342	PDP15		73	PC BOARD	7-343	PDP15		74	PC BOARD	7-344	PDP15		75	PC BOARD	7-345	PDP15		76	PC BOARD	7-346	PDP15		77	PC BOARD	7-347	PDP15		78	PC BOARD	7-348	PDP15		79	PC BOARD	7-349	PDP15		80	PC BOARD	7-350	PDP15		81	PC BOARD	7-351	PDP15		82	PC BOARD	7-352	PDP15		83	PC BOARD	7-353	PDP15		84	PC BOARD	7-354	PDP15		85	PC BOARD	7-355	PDP15		86	PC BOARD	7-356	PDP15		87	PC BOARD	7-357	PDP15		88	PC BOARD	7-358	PDP15		89	PC BOARD	7-359	PDP15		90	PC BOARD</td
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PDP15		51	PC BOARD	7-321																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		52	PC BOARD	7-322																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		53	PC BOARD	7-323																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		54	PC BOARD	7-324																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		55	PC BOARD	7-325																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		56	PC BOARD	7-326																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		57	PC BOARD	7-327																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		58	PC BOARD	7-328																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		59	PC BOARD	7-329																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		60	PC BOARD	7-330																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		61	PC BOARD	7-331																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		62	PC BOARD	7-332																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		63	PC BOARD	7-333																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		64	PC BOARD	7-334																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		65	PC BOARD	7-335																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		66	PC BOARD	7-336																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		67	PC BOARD	7-337																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		68	PC BOARD	7-338																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		69	PC BOARD	7-339																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		70	PC BOARD	7-340																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		71	PC BOARD	7-341																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		72	PC BOARD	7-342																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		73	PC BOARD	7-343																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		74	PC BOARD	7-344																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		75	PC BOARD	7-345																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		76	PC BOARD	7-346																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		77	PC BOARD	7-347																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		78	PC BOARD	7-348																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		79	PC BOARD	7-349																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		80	PC BOARD	7-350																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		81	PC BOARD	7-351																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		82	PC BOARD	7-352																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		83	PC BOARD	7-353																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		84	PC BOARD	7-354																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		85	PC BOARD	7-355																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		86	PC BOARD	7-356																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		87	PC BOARD	7-357																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		88	PC BOARD	7-358																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		89	PC BOARD	7-359																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PDP15		90	PC BOARD</td																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST**

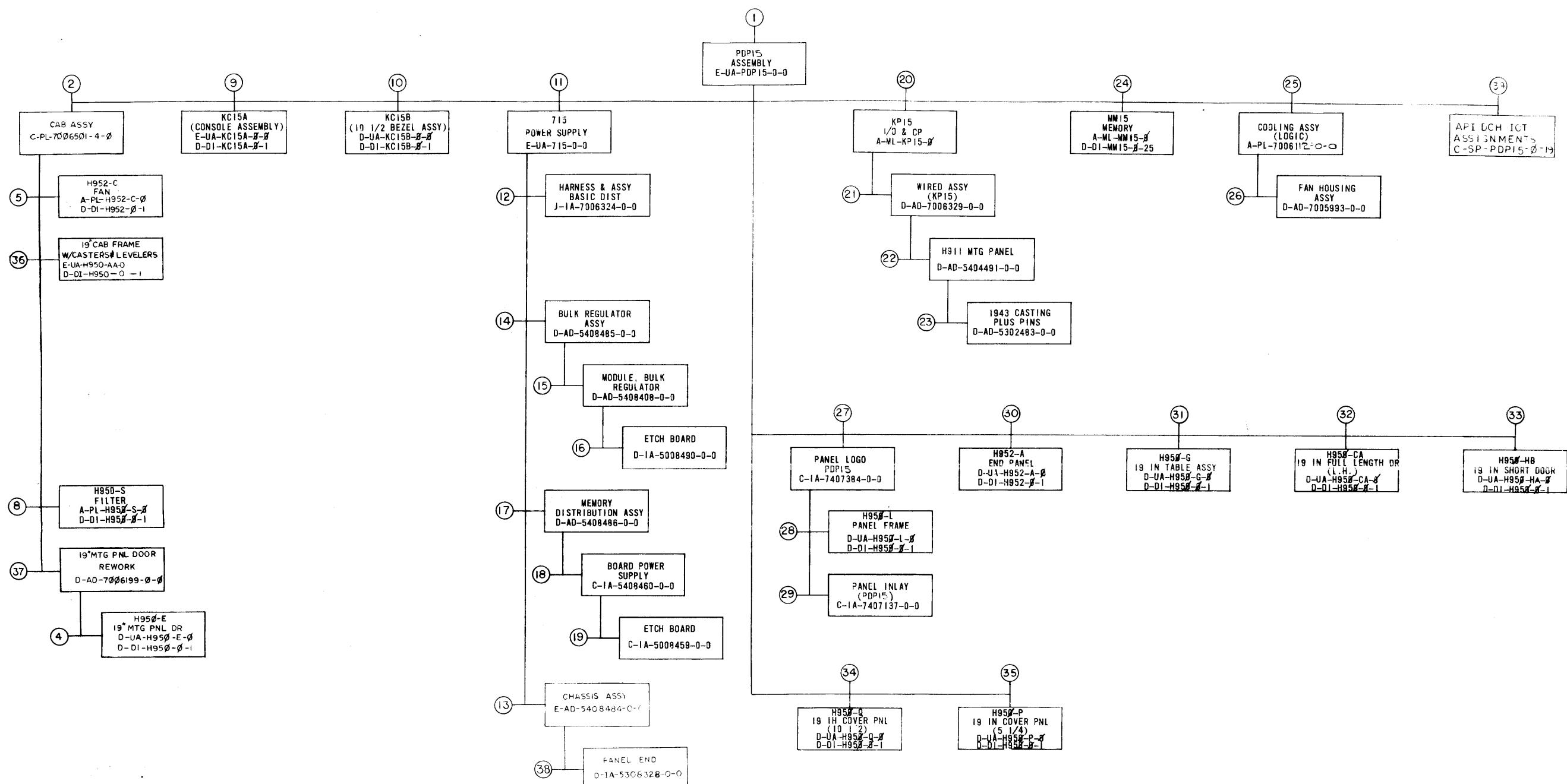
QUANTITY / VARIATION

PARTS LIST							QUANTITY / VARIATION		
MADE BY	J. FLEMING	CHECKED	J. MADDEIN	SECTION			NUMBER	CODE	FCO NO.
DATE	7/25/69	DATE		1			A	PL	M
ENG	2 W Bemo	PROD			ISSUED SECT.				150085
DATE	Sub/6/69	DATE		1					00085
ITEM NO.	DWG NO./ PART NO.	DESCRIPTION							
1	D-UA-H950-HA-Ø	SHORT DOOR ASSY (23-3/8)			1				
2	D-UA-H950-G-Ø	TABLE ASSY			1				
3	E-UA-KC15A-Ø-Ø	CONSOLE ASSY KC15A			1				
4	C-MD-7407280-0-0	BOTTOM PLATE (CONSOLE)			1				
5	C-IA-7407093-2-0	BRACKET MTG CONSOLE R.H.			1				
6	9006560	KEPS HEX NUT #6-32			10				
7	9006021-1	SCR. PHIL. HD. PAN #6-32 X 5/16 SST			8				
8	D-UA-H950-Q-Ø	H95Ø-Q 19 IN COVER PNL (10-1/2)			2				
9	D-UA-H950-P-Ø	H95Ø-P 19 IN COVER PNL (5-1/4)			2				
10	A-PL-7006112-0-0	COOLING ASSY (LOGIC)			1				
11	C-IA-7407384-0-0	PANEL LOGO FDP15			1				
12	C-PL-7006501-4-C	BASIC CAB. ASSY. 19"			1				
13	A-PL-MM15-Ø-Ø	MM15 (MEMORY)			1				
14	D-AD-7006199-0-0	19"MTG PNL DR REWORK			1				
15	D-UA-H950-C-Ø	H95Ø-C 19 IN FULL LG DR (L.H.)			1				
16	E-UA-H952-A-Ø	H952-A END PANEL			2				
17	9007651	WASHER EXT TOOTH #10			53				
18	9006231	SCR HEX HD CAP #10-32 X 1/2 SST			19				
19	E-UA-715-Ø-Ø	POWER SUPPLY 715			1				
20	9006073-3	SCR PH. HD TRUSS #10-32 X 1/2 SST			31				
21	9007786	NUT #C31758-1032-27 TINNERNAN			83				
22	C-IA-7407093-1-0	BRACKET MTG CONSOLE L.H.			1				

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

QUANTITY / VARIATION

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REVISIONS		CHANGE NO	REV
CHN	15-00020	A	
CHN	15-00022	B	
CHN	15-00014	C	
CHN	15-00007	D	
CHN	15-00052	E	
CHN	15-00050	F	
CHN	15-00048	G	
CHN	15-00046	H	
CHN	15-00044	I	
CHN	15-00042	J	
CHN	15-00040	K	
CHN	15-00038	L	
CHN	15-00036	M	
CHN	15-00034	N	
CHN	15-00032	O	
CHN	15-00030	P	
CHN	15-00028	Q	
CHN	15-00026	R	
CHN	15-00024	S	
CHN	15-00022	T	
CHN	15-00020	U	
CHN	15-00018	V	
CHN	15-00016	W	
CHN	15-00014	X	
CHN	15-00012	Y	
CHN	15-00010	Z	
CHN	15-00008	AA	
CHN	15-00006	AB	
CHN	15-00004	AC	
CHN	15-00002	AD	
CHN	15-00000	AE	

QTY.	DESCRIPTION	PART NO	ITEM NO
PARTS LIST			
FIRST USED ON OPTION/MODEL			
PDP15			
DO NOT SCALE DRAWING			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm .01$ $\pm .02$ $\pm .03$ FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
NEXT HIGHER ASSY			
A-ML-PDP15-Ø			
FINISH			
SCALE NONE			
SHEET / OF 3			
SIZE CODE: DDI PDP15-Ø-1 M DIST: 1			

DRAWING INDEX
LIST PDP15

SIZE CODE: DDI PDP15-Ø-1 M DIST: 1

NUMBER: 2

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FIRST USED ON OPTION / MODEL PDP15	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
	PARTS LIST				
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $= .005$ $= 1.64$ $= .030$ FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRW.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
	CHK'D	DATE			
	END	DATE			
	PROJ. ENGR.	DATE			
	PROD.	DATE			
	TITLE				
	DRAWING INDEX LIST				
	PDP15				
	MATERIAL	NEXT HIGHER ASSY			
	/ /	A-ML-4-PDP15-2			
FINISH	SCALE	NUMBER		REV	
		PDP15-X-1		M	
SHEET	OF	DIST			

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1 - Ø 1/2 D1 PDP15 - Ø 1/2

1

ELECTRICAL			DEPT USAGE														
FIND NO.	DESCRIPTION	PART NO	PROD	CUST	F/C												
20	REG & BUS BIT	D-BS-KP15-Ø-14															
	REG & BUS BIT	D-BS-KP15-Ø-15															
	REG & BUS BIT	D-BS-KP15-Ø-16															
	REG & BUS BIT	D-BS-KP15-Ø-17															
	REG & BUS BIT	D-BS-KP15-Ø-18															
	INSTRUCTION IMPLEMENTATION	D-BS-KP15-Ø-19															
	MAJOR STATE GENERATOR	D-BS-KP15-Ø-20															
	TIME STATE GENERATOR	D-BS-KP15-Ø-21															
	LINC - LINC CONTROL	D-BS-KP15-Ø-22															
	SKIP CONTROL	D-BS-KP15-Ø-23															
	REG STROBE CONTROL	D-BS-KP15-Ø-24															
	INDICATOR STROBES	D-BS-KP15-Ø-25															
	CARRY IN	D-BS-KP15-Ø-26															
	C/P MEMORY CABLE	D-BS-KP15-Ø-27															
	OPR DECODE	D-BS-KP15-Ø-28															
	INDEX GRP CONTROL	D-BS-KP15-Ø-29															
	MAJOR INST DECODING	D-BS-KP15-Ø-30															
	INSTR REGISTER	D-BS-KP15-Ø-31															
	MEMORY INTERFACE CONTROL	D-BS-KP15-Ø-32															
	DEC + X MODE BUS CONTROL	D-BS-KP15-Ø-33															
	CONSOLE INTERFACE	D-BS-KP15-Ø-34															
	CP-I/O INTERFACE	D-BS-KP15-Ø-35															
	I BUS Ø8-Ø8 M1, M2, MD	D-BS-KP15-Ø-38															
	I BUS Ø8-Ø8 EAE, DSR	D-BS-KP15-Ø-39															
	I BUS Ø8-17 M1, M2	D-BS-KP15-Ø-40															
	I BUS Ø8-17 EAE, DSR	D-BS-KP15-Ø-41															
	I BUS Ø8-17 SC	D-BS-KP15-Ø-42															
	I BUS 18-23 IR	D-BS-KP15-Ø-43															
	CONSOLE CONTROL #1	D-BS-KP15-Ø-44															
	CONSOLE CONTROL #2	D-BS-KP15-Ø-45															
	MISC CONTROL LOGIC	D-BS-KP15-Ø-46															
	MEM IN CONTROL	D-BS-KP15-Ø-47															
	MISC LOGIC	D-BS-KP15-Ø-48															
	DEVICE SELECTOR (D18)	D-BS-KP15-Ø-58															
	I/O CONTROL SYNC (D11)	D-BS-KP15-Ø-51															
	I/O BUS (D12)	D-BS-KP15-Ø-52															
	I/O BUS (D13)	D-BS-KP15-Ø-53															
	TIME LOGIC (D16)	D-BS-KP15-Ø-55															
	POWER FAIL REAL TIME CLOCK OPTION (D27)	D-BS-KP15-Ø-57															
	INTERNAL IOT DECODER	D-BS-KP15-Ø-58															
	MDL DRIVERS	D-BS-KP15-Ø-59															
	I BUS Ø8-Ø8	D-BS-KP15-Ø-60															
	I BUS Ø8-17	D-BS-KP15-Ø-62															
	TEL REC	D-BS-KP15-Ø-64															
	TEL TRANS	D-BS-KP15-Ø-65															
	READ IN	D-BS-KP15-Ø-66															
	MISC TEL LOGIC	D-BS-KP15-Ø-67															
	A & REC	D-BS-KP15-Ø-68															
	I/O ADDRESS BUS	D-BS-KP15-Ø-69															
	MODULE PARTS LIST	A-PL-KP15-Ø-1/2															
24	MM15 MEMORY DRAWING INDEX LIST MM15	A-ML-MM15-Ø D-DI-MM15-Ø-25															
39	API, DCH, IOT ASSIGNMENTS	C-SP-PDP15-Ø-19															

REVISIONS	REV	CHANGE NO.	CHK	REVISIONS	REV	CHANGE NO.	CHK
FIRST USED ON OPTION/MODEL				DO NOT SCALE DRAWING			
PDP15				DRN 4/1/74 DATE 6-27			
UNLESS OTHERWISE SPECIFIED				TITLE digital MAINTAIN MASSACHUSETTS			
DIMENSION IN INCHES				CND 4/1/74 DATE 6-27			
TOLERANCES				PROJ. ENG. 4/1/74 DATE 6-27			
DECIMALS FRACTIONS ANGLES				PROD. 4/1/74 DATE 6-27			
± .005 ± 1/64 ± 0°30'				NEXT HIGHER ASSY A-ML-PDP15-Ø-19			
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				FINISH 4/1/74 DATE 6-27			
MATERIAL				SCALE N/1			
SHEET 3 OF 3 DIST. 6-27				SIZE COOF NUMBER REV			
DRAWING INDEX LIST PDP15							
D-DI-PDP15-Ø-1-1							

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FRONT VIEW

C 1A 7407349 1-0

LOGS				
H963A BAYSL	H963A BATSL	H963B HNY4L	H963C BAY3...	H963N E172...

RS09 #8	RS09 #5	RF15 SEE NOTE +	INDICATOR INDICATOR	M.M15-OD
			RP15 SEE NOTE 4	MM15-CD
RS09 #7	RS09 #4	RS09 #2		FANS
				MM15-BD
				MM15-AD
RS09 #6	RS09 #3	RS09 #1	FANS	FANS
				MX-15A
BLANK	BLANK	BLANK	BLANK	BLANK
				BLANK

	PDP 15	
SEE NOTE 5	-K MEM - MM XA	INDICA SIGHT (FP15) FANS
	CENTRAL PROCESSOR	API MEMPROT KAVS KN NP15, KT
	AP 15	DISPL
	CONSOLE KC15	PC15
H742	TABLE	BLAN FANS
	POWER SUPPLY 715	BA15 DW15
		PWR RE

TYPING		PAYOFF
TOP	IVE CATO	FLINK
115	BLANK	BLANK
TYPING 115 15	56 #3 OR BLANK SEE NOTE 2	BLANK
LAY	TU56 #2	TU56 #4
	TU56 #1	TU56 #3
K	TC15	BLANK
ECP	POWER SUPPLY	

	SEE NOTE 1	AFCIB OR ADC 1/9	BL
	FAN		AD
	AM09		
	BLANK		
	HADBD		BLA
	FANS		
	7006351		BLA
	BLANK		
	2A27		AA
TC 57			POV SUF
	BLANK		H

	INDICATOR	INDICATOR
BANK	BLANK	INDICATOR
15	LP15	VT15A
BANK	CR15	
BANK	BLANK	
15		VT15B
POWER SUPPLY H721	POWER SUPPLY H721	

BAY 9 R		BAY 10 R		BAY 11	
INDICATOR		BLANK		BLANK	
BLANK		AFC 15 (SEE NOTE) 3		UDC 15 (SEE NOTE) 3	
BD 15		BLANK		BLANK	
BLANK		SCREW TERMINAL CONNECTORS		BLANK	
		BLANK		BLANK	
POWER SUPPLY	H721	POWER SUPPLY	H721	POWER SUPPLY	H721

FILLER STRIP
H952-G —

BAY 1L	BAY ØØ	BAY 1
FANS	FANS	
ME15D	ME15U	8K MEM MM15XB
ME15A	ME15C	8K MEM MM15XC
H742		8K MEM MM15XC
FANS	FANS	
		BLANK
		POWER SUPPLY 715

STANDARD MODELS	
MODEL NO	OPTIONS INCLUDED
PDP15/10	MM15 AACOR MM15 BA), ASR-33 KC15 (A, B). KP15
PDP15/20	MM15 CA (OR MM15 DA), PC15, TC15 (OR TC02 & DWY/5A), KSR-35 KC15 (A, B), KP15, KE15, TU56 (OR 2 TU55)
PDP15/30	MM15 CA (OR MM15 DA), MM15 CB (OR MM15 DA) PC15, TC15 (OR TC02 & DWY/5A), KE15, KA15, KM15, KW15, BA15, LT15, KSR-35 KSR-33, KC15 (A,B) RP15, 2 TU56 (OR 3 TU55)
PDP15/40	(1) MM15 CA (OR MM15 DA), MM15 CB (OR MM15 DB), PC15, TC15 (OR TC02 & DWY/5A), KE15, KA15, KM15, KW15, BA15, LT15, RF15, 2 AS07, KSR-35, KSR-33 KC15 (A,B) KP15, MM15 CC (OR MM15 DC), TU56 (OR 2 TU56)

PEAR DOG

CABINET		CONFIGURATION INFORMATION
CAB. DES.		MAX CONFIGURATION DRAWING NUMBER
H-963-A	B	7006709 (CRS29)
	C	7006708 (RF15)
	D	7006820 (RP-15) (MAIN PROCESSOR)
E		7006621 (PC15)
F		7006725 (TC-15)
H		7006725 (TC-15)
J		7006633 (TC59)
K		(AA05)
L		(VT15)
M		(LP15)
N		7006863 (MX-15)
P		(ANALOG SUBSYSTEM)
R		(AFC15 & UDC15)
S		(BD15)

FIRST USED ON	QTY	DESCRIPTION	PART NO	ITEM NO
UNLESS OTHERWISE SPECIFIED			PARTS LIST	
UNLESS OTHERWISE SPECIFIED	DRN	DATE	EQUIPMENT CORPORATION	
DIMENSION IN INCHES	FLEMING	1/20/00	STANFORD, CALIFORNIA U.S.A.	
TOLERANCES	CHK'D	DATE		
DECIMALS FRACTIONS ANGLES	MAILED	1/20/00		
.005 .164 .10	ENG	DATE		
FINAL SURFACE QUALITY	MASON	1/20/00		
REMOVE BURRS AND BREAK CORNERS	PROJ. ENG	DATE		
	FULTER	1/20/00		
MATERIAL	PROD	DATE		
	CASKEY	1/20/00		
FIRST USED ON			TITLE	
			EQUIPMENT LAYOUT	
			POP15	
FINISH	SCALE	NUMBER	REV	
	SHEET / OF	DAR	POP15 D 2	T
		DIST		

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a

3A H963A
6L BAY5L

H963B BAY 4L

H963C BAY 3L

H963N BAY 2L

H963U BAY1L

H963D BAY0D

H963F BAY1R

H963F BAY2R

H963H BAY3R

H963J BAY4R

H963K BAY5R

H963P BAY6R

H963M BAY7R

H963L BAY8R

H963S BAY0R

H963R BAY1DR

H963R BAY11R

POSITIVE DECTAPE

NEGATIVE DECTAPE

INPUT/OUTPUT BUS ROUTING

FIRST USED ON OPTION/MOD PDP15		QTY.	DESCRIPTION	PART NO	ITEM NO
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$		DRN KELLY	DATE 6/23/66	EQUIPMENT CORPORATION WAKEFIELD, MASSACHUSETTS	
		CHK'D MADDEN	DATE 6/20/66	TITLE	
		ENG SWANSON	DATE 7/2/66	EQUIPMENT LAYOUT	
		PROJ. ENG. BUTLER	DATE 7/2/66	PDP15	
		PROD LASKEY	DATE 7/3/66		
		NEXT TIME PER ASSY			
MATERIAL			SIZE	CODE	NUMBER
FINISH			D	AIR	PDP15-0-2
	SCALE	1 : 1	REV		
	SHEET	2 OF 5	DIST.		

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NOTES FOR POSITIVE OPTIONS.

- 1 FOR VT15 CABLES ONLY - THE LENGTHS SHOWN ASSUME THAT A TC02 WITH FOUR (4) OR LESS
DECTAPES, AND ONE HAY OF NEGATIVE LOGIC OPTION ARE INCLUDED IN THE SYSTEM. IF ONE
OF THESE ASSUMPTIONS ARE FALSE THE FOLLOWING ADJUSTMENTS MUST BE MADE:

A SUBTRACT TWO (2) FEET FROM VT15 CABLE IF NO DECTAPE IS INCLUDED.
B SUBTRACT TWO (2) FEET FROM VT15 CABLE IF NO NEGATIVE OPTIONS ARE
INCLUDED
C ADD TWO (2) FEET IF TC02 WITH FIVE (5) OR MORE TU55'S ARE INCLUDED.
D ADD TWO (2) FEET FOR EACH ADDITIONAL NEGATIVE OPTION BAY

2 FOR POSITIVE OPTIONS SINGLE BC09B CABLES ARE USED FOR OPTION INTERCONNECTIONS.

3 FROM THE FIRST OPTION IN SEQUENCE ON THE MATRIX, CONNECTION IS MADE TO THE PROCESSOR
WITH THE SPECIFIED CABLE LENGTH.

IF TC05 IS INCLUDED THE SMALL MATRIX BELOW MAY BE USED TO DETERMINE
CABLE LENGTHS. THIS MATRIX IS TO BE USED WITH THE LARGE MATRIX,
ELIMINATING THE ROW TITLED 'VT15' AND SUBSTITUTING THE SMALL
MATRIX WHERE APPLICABLE

40 MILE (1609 BY) TO TC15 FROM: CF BB ER DW RP RF
CABLE LENGTH → 5 5 3 3 7 7

IF BOTH RP15 & RF15 INCLUDED: - 10
IF BB, BA OR DW INCLUDED: - 10
F BB, BA OR DW & RF15 INCLUDED: - 12

CASE 1 FROM TCIS TO VT15 S

OPTION	ONE OPTION					TWO OPTIONS				
BB15	5			5	5	5		5		5
BA15		5		5	5		5	5		5
BW15		5		5	2		5	5		5
RP15		5		1		12	10	10		5
RF15			5				12	10	10	5
VT15				7					5	7
OPTION										
THREE OPTIONS										
BB15	5	5	5	5	5	5	5	5	5	5
BA15	5	5	5	5	5	5	5	5	5	5
BW15	2	5	2	5	2	5	5	2	5	5
RP15	10	10	10			12	10	10	12	10
RF15				10	10	10	5	5	7	10
VT15							7	7	12	12
OPTION										
FOUR OPTIONS										
BB15	5	5	5	5	8	5	6	5	5	5
BA15	5	5	5	5	5	5	5	5	5	5
BW15	2	2	5	2	2	5	2	5	2	5
RP15	10	10	10	10	10	10	10	10	12	10
RF15	10	8	5	5			10	10	9	9
VT15				7	12	12	12	12	15	15
OPTION										
FIVE OPTIONS										
BB15	5	5	5	5	5	5				
BA15	5	5	5	5	5	5				
BW15	2	2	2	5	2	2				
RP15	10	10	10	10	10	10				
RF15	5	10	5	5	5	5				
VT15	12	12	15	15	15	15				

POSITIVE LOGIC

NOTES: FOR NEGATIVE OPTIONS.

1. IT IS ASSUMED THAT A TCB2 WITH NO MORE THAN FOUR (4) TU55'S IS INCLUDED IN THE SYSTEM. THE TCB2 IS CONNECTED TO THE DW15 WITH 3 FOOT CABLES, THE FIRST NEGATIVE OPTION IN CHART SEQUENCE CONNECTS TO TCB2.
 2. IF NO DECTAPE IS INCLUDED, FIRST OPTION IN CHART SEQUENCE CONNECTS DIRECTLY TO DW15. CABLE LENGTHS ARE UNCHANGED.
 3. IF A TCB2 WITH FIVE (5) OR MORE TU55'S IS INCLUDED ADD TWO (2) FEET TO FIRST CABLE IN CHART SEQUENCE.
 4. FOR NEGATIVE OPTIONS PAIRS OF BC09A CABLES ARE USED FOR OPTION INTER-CONNECTIONS.
 5. YY15 AND/OR DR04 MAY BE INSTALLED IN PLACE OF LT19, DB09, CR03B OR DP09. CABLE LENGTHS DO NOT CHANGE. (REF SHEET 11)

NOTES:

GENERAL MATRIX INSTRUCTIONS

- 1 TO USE CABLE MATRICES, REFER TO POSITIVE OR NEGATIVE OPTION MATRIX. FIND SECTION IN MATRIX WHICH CORRESPONDS TO NUMBER OF POSITIVE OR NEGATIVE LOGIC OPTIONS IN SYSTEM.
 - 2 AFTER LOCATING APPROPRIATE SECTION OF MATRIX FIND COLUMN WHICH DESCRIBES PARTICULAR SYSTEM UNDER CONSIDERATION. (THE PRESENCE OF A NUMBER IN THE MATRIX INDICATES THAT THE OPTION IS INCLUDED IN THE SYSTEM).
 - 3 VERTICAL LISTING OF OPTIONS INDICATES INTER-CONNECTION SEQUENCE; CONNECT OPTIONS TOGETHER IN ASCENDING ORDER OF LISTING.
 - 4 THE NUMBER IN THE MATRIX REPRESENTS THE LENGTH (IN FEET) OF I-O CABLE(S) REQUIRED TO CONNECT TO NEXT OPTION IN SEQUENCE

OPTION	FIVE OPTIONS															SIX OPTIONS							OPT 7	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
TC59	3	3	3	3	5	5	3	3	3	3	3	5	5	5	5	3	3	3	3	3	3	3	3	5
L119	3	3	3	3	5	5	7	5	5	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2
DB09	2	2	2	2	2	2	7	5	5	5	5	2	2	2	2	7	3	3	3	3	3	3	3	2
CR03B	2	2	2	2	2	2	2	2	2	2	2	7	3	2	2	2	2	3	3	3	3	3	3	2
DP09	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2
AF01 *	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
AA05	7	7	7	5	7	5	5	5	5	5	5	7	5	7	5	5	5	5	7	5	5	5	5	5

OPTION	ONE OPTION			TWO OPTIONS									
	3	3	3	3	3	3	3	3	3	3	3	3	3
TC59	3												
LT19	3	3	3	3	3	3	3	3	3	3	3	3	3
DB79	7			5	2	7	7	7	7			7	7
GM79		7			7	3	3		7			7	7
DN79			7				7	3	3	2			7
AF01*			15						15	15	12	10	10
AA05D			12						15	15	15	10	8

OPCIÓN	THREE OPTIONS																					
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
TC59	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
LT19	3	3	5	3	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	5		
DP09	2	5	2	5	2	10		5	5		2	2			7	7	7	7		7		
CR03B	3	2	2	3	3	3	2	2	2		5	5		3	3	2	2	7	7	7		
DP09			3	3	3	2	2	2			5	5		3	3	3	3	2	2	7		
AF01 *							15	12	10	10	12	10	10	10	10	10	10	15	15	12	10	10
AA05D							12	10	7	7	10	7	7	7	7	7	7	5	5	5	5	

* AF01 & ADC1/9 ARE IDENTICAL

NEGATIVE LOGIC

FIRST USED ON OPTION/MODEL PDP 15		DATE 1-6-68	EQUIPMENT CORPORATION HAYWARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE 1-7-69	TITLE	
TOLERANCES DECIMALS .0005 INCHES ANGLES ± .5° ± 1.0° ± 2.0°		DATE 1-7-69	EQUIPMENT LAYOUT PDP 15	
FINAL SURFACE QUALITY ABOVE BURRS AND SWAK SHARP		DATE 1-7-69		
MATERIAL		DATE 1-7-69		
+ +		DATE 1-7-69		
FINISH		NEXT HIGHER ASSY		
+ +		+ +		
SCALE		+ +		
SHEET 3 OF 5		DIST.		
DIAR PDP 15-0-2			REV T	

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1

FROM	TO	CABLE NAME	CABLE TYPE	REMARKS
DEVICE LOCATION	DEVICE LOCATION			
BB15 A32 IND PANEL BOTTOM LEFT	INDIC PANEL TOP RIGHT	FLEXPRINT		CABLES ARE PART OF INDICATOR PANEL
BB15 C32 IND PANEL TOP LEFT	INDIC PANEL POS 1 O BUS	FLEXPRINT		700631-4 AS VIEWED FROM REAR
BB15 A29 IND PANEL	INDIC PANEL POS 1 O BUS	FLEXPRINT		SEE NOTE 1
RF15 EF02 03	POS 1 O BUS	BC098-T	COAX	SEE NOTE 1
RF15 EF04 05	POS 1 O BUS	BC098-T	COAX	
RF15 C31 RS09 A23	CTRL & DATA	7005820-4	FLAT COAX	CONTROL TO DISK
RF15 C41 RS09 A25	CTRL & DATA	7005820-4	FLAT COAX	
RF15 D41 RS09 S24	CTRL & DATA	7005820-4	FLAT COAX	
RF15 D32 RS09 S25	CTRL & DATA	7005820-4	FLAT COAX	
RF15 D01 IND PANEL	BOTTOM RIGHT	INDIC PANEL	FLEXPRINT	CABLES ARE PART OF INDICATOR PANEL
RF15 E01 IND PANEL	BOTTOM LEFT	INDIC PANEL	FLEXPRINT	(700631-1) AS VIEWED FROM REAR
RF15 F01 IND PANEL	BOTTOM LEFT	INDIC PANEL	FLEXPRINT	L-2 FOR RS09-B - C
RS09 A26 RS09 A24	CTRL & DATA	7005820-L	FLAT COAX	FLAT COAX
RS09 A27 RS09 A25	CTRL & DATA	7005820-L	FLAT COAX	
RS09 S26 RS09 S24	CTRL & DATA	7005820-L	FLAT COAX	
RS09 S27 RS09 S25	CTRL & DATA	7005820-L	FLAT COAX	
VT15A HJ 29 30	POS 1 O BUS	3C098-T	COAX	SEE NOTE 1
VT15A HJ 31 32	POS 1 O BUS	3C098-T	COAX	SEE NOTE 1
VT15A BNC S V104 BNC S	X-Y VIDEO	COAX ASSEM	ASSEM IS	ASSEM IS
VT15A BNC S V104 BNC S	Z VIDEO	COAX ASSEM	3 700631-4	CONTROL TO TERMINAL
VT15A HJ 02 03 B104 AB 06	DATA CTRL	7006641-4C	FLEXPRINT	CABLES ARE PART OF INDICATOR PANEL
VT15A D01 IND PANEL	BOTTOM RIGHT	INDIC PANEL	FLEXPRINT	(700631-2) AS VIEWED FROM REAR
VT15A E01 IND PANEL	BOTTOM RIGHT	INDIC PANEL	FLEXPRINT	Z VIDEO TO KRATOS DISPLAY
VT15A F01 IND PANEL	BOTTOM LEFT	INDIC PANEL	FLEXPRINT	VTO4
VT15A G01 IND PANEL	BOTTOM LEFT	INDIC PANEL	BELDEN & COAX	KEYBOARD DATA OF LK35
BN04 A11 VT04	BNC & AMPHENOL	CRT INTENSITY	7006686	GRAPHICS OPTIONS
BN04 BNC LIGHT PEN	PHONE JACK	LIGHT PEN	7006687	
BN04 A24 LK35	TTY INPUT	KEYBOARD DATA	7006659	
BN04 B24 LT198	SWITCHES(W28)	BELDON		
BN04 A12 PUSH BUTTONS	SWITCHES(K581)	RIBBON		
BN04 A13 PUSH BUTTONS		RIBBON		
AT15 A00 B2		CABLE IS PART OF SWITCH ASSEM 7006727		
AT15 A003 B4		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A005 B5		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A007 B6		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A009 B7		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A011 B8		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A013 B9		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A015 B10		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A017 B11		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A019 B12		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A021 B13		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A023 B14		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A025 B15		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A027 B16		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A029 B17		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A030 B18		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A031 B19		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A032 B20		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A033 B21		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A034 B22		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A035 B23		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A036 B24		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A037 B25		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A038 B26		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A039 B27		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A040 B28		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A041 B29		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A042 B30		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A043 B31		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A044 B32		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A045 B33		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A046 B34		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A047 B35		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A048 B36		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A049 B37		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A050 B38		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A051 B39		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A052 B40		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A053 B41		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A054 B42		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A055 B43		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A056 B44		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A057 B45		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A058 B46		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A059 B47		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A060 B48		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A061 B49		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A062 B50		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A063 B51		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A064 B52		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A065 B53		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A066 B54		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A067 B55		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A068 B56		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A069 B57		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A070 B58		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A071 B59		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A072 B60		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A073 B61		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A074 B62		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A075 B63		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A076 B64		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A077 B65		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A078 B66		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A079 B67		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A080 B68		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A081 B69		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A082 B70		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A083 B71		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A084 B72		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A085 B73		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A086 B74		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A087 B75		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A088 B76		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A089 B77		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A090 B78		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A091 B79		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A092 B80		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A093 B81		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A094 B82		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A095 B83		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A096 B84		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A097 B85		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A098 B86		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A099 B87		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A100 B88		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A101 B89		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A102 B90		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A103 B91		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A104 B92		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A105 B93		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A106 B94		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A107 B95		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A108 B96		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A109 B97		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A110 B98		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A111 B99		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A112 B100		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A113 B101		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A114 B102		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A115 B103		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A116 B104		NEG 1 O BUS	BC098-T	SEE NOTE 1
AT15 A117 B105	</			

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FROM	TO	DEVICE	LOCATION	DEVICE	LOCATION	CABLE NAME	CABLE #	CABLE TYPE	REMARKS
LT190	CD 03 84			NEG I/O BUS	BC99A-T	COAX		SEE NOTE 1	
LT190	CD 05 96			NEG I/O BUS	BC99A-T	COAX		SEE NOTE 1	
LT190	CD 07 88			NEG I/O BUS	BC99A-T	COAX		SEE NOTE 1	
LT19E (1)	D13	TTY(1)		TTY (1)		BELDEN			PART OF TTY ASSEMBLY (7006593)
LT19E (2)	D21	TTY (2)		TTY (2)		BELDEN			(OR) (7006594)
LT19E (3)	B92	TTY (3)		TTY (3)		BELDEN			ASSEMBLY INCLUDES
LT19E (4)	B16	TTY (4)		TTY (4)		BELDEN			DATA SET
LT19E (5)	B18	TTY (5)		TTY (5)		BELDEN			CONNECTOR
LT19F (1)	A25	DATA SET		DATA SET (1)	7405717	BELDEN			SEE NOTE 1
LT19F (2)	A26	DATA SET		DATA SET (2)	7405717	BELDEN			SEE NOTE 1
LT19F (3)	A27	DATA SET		DATA SET (3)	7405717	BELDEN			SEE NOTE 1
LT19F (4)	A28	DATA SET		DATA SET (4)	7405717	BELDEN			SEE NOTE 1
LT19F (5)	A29	DATA SET		DATA SET (5)	7405717	BELDEN			SEE NOTE 1
CR9	AB 01 82			NEG I/O BUS	BC99A-T	COAX			
CR9	AB 03 84			NEG I/O BUS	BC99A-T	COAX			
CR9	CD 01 82			NEG I/O BUS	BC99A-T	COAX			
CR9	CD 03 84			NEG I/O BUS	BC99A-T	COAX			
CR9	AB 23 24	OB 08 89	AB 23 24	DATA CABLE	BC99A-L	COAX			L LENGTH WILL DEPEND ON DISTANCE BETWEEN SYSTEMS
CR9	CC 23 24	OB 08 89	AB 23 24	DATA CABLE	BC99A-L	COAX			
CR9	AB 01 82			NEG I/O BUS	BC99A-T	COAX			
CR9	AB 03 84			NEG I/O BUS	BC99A-T	COAX			
CR9	AB 05 86			NEG I/O BUS	BC99A-T	COAX			
CR9	AB 07 88			NEG I/O BUS	BC99A-T	COAX			
CR9	A826	CARD READER		DATA CABLE	7405943	36 PAIR			
DP9A	AB 01 82			NEG I/O BUS	BC99A-T	COAX			
DP9A	AB 03 84			NEG I/O BUS	BC99A-T	COAX			
DP9A	AB 05 86			NEG I/O BUS	BC99A-T	COAX			
DP9A	AB 07 88			NEG I/O BUS	BC99A-T	COAX			
637	A81	OP9A	869	INTERFACE	740553-28	FLEXPRINT			
637	A82	OP9A	818	INTERFACE	740553-29	FLEXPRINT			
637	B81	OP9A	011	INTERFACE	740553-30	FLEXPRINT			
637	B82	OP9A	812	INTERFACE	740553-30	FLEXPRINT			
637	B83	OP9A	813	INTERFACE	740553-30	FLEXPRINT			
637	A83	DATA SET		DATA/CTRL	7405639-1	BELDEN			
AD15	AB 01 82			POS I/O BUS	BC99B-T	COAX			
AD15	AB 03 84			POS I/O BUS	BC99B-T	COAX			
AD15	E14			ANALOG IN		RIBBON			
AD15	F14			ANALOG IN		RIBBON			
AD15	AB 14	AM81		MULTIPLEX	M935	FLEXPRINT			FOR EXPANSION OF INPUT CHANNEL MULTIPLEXER
AM81	AB 01 82			NEG I/O BUS	BC99A-T	COAX			
AM81	AB 03 84			NEG I/O BUS	BC99A-T	COAX			
AM81	AB 05 86			NEG I/O BUS	BC99A-T	COAX			
AM81	AB 07 88			NEG I/O BUS	BC99A-T	COAX			
MX 15	BB15	BB15	141415						SEE PRINT D-AD-7006963-0-0
MX 15	AB 02 83			POS I/O BUS	BC99B-T	COAX			
MX 15	AB 04 85			POS I/O BUS	BC99B-T	COAX			
MX 15	AFC 15	AFC 15							SEE NOTE 1
TC15	AB21	TU55	AB22	DATA	7405152-1	ASSY			
TC15	A27	TU55	A85	COMMAND	7405151-1	ASSY			
TC15	CD25	TU56	A86	DATA	7405152-1	ASSY			
TC15	C32	TU56	A86	COMMAND	7405152-1	ASSY			
TC15	AB11	TU55	AB22	DATA	7405152-1	ASSY			
TC15	AB11	TU55	AB22	COMMAND	7405152-1	ASSY			
TC15	A27	TU55	A85	DATA	7405152-1	ASSY			
FP15	J86	IND PANEL	BOTTOM RIGHT	INDIC PANEL		FLEXPRINT			
FP15	J86	IND PANEL	BOTTOM LEFT	INDIC PANEL		FLEXPRINT			
FP15	J83	IND PANEL	TOP RIGHT	INDIC PANEL		FLEXPRINT			
FP15	J84	IND PANEL	TOP LEFT	INDIC PANEL		FLEXPRINT			
FP15	H28	KP15	J82	MDL	BC99A-3	FLEXPRINT			
FP15	H28	KP15	J83	MDL	BC99A-3	FLEXPRINT			
FP15	H41	KP15	J81	API CONTROL	BC99A-3	FLEXPRINT			
FP15	J31	BB15	BB3	API CONTROL	BC99A-3	FLEXPRINT			
						- NECESSARY ONLY IF API OPTION IS INSTALLED IN BB15			

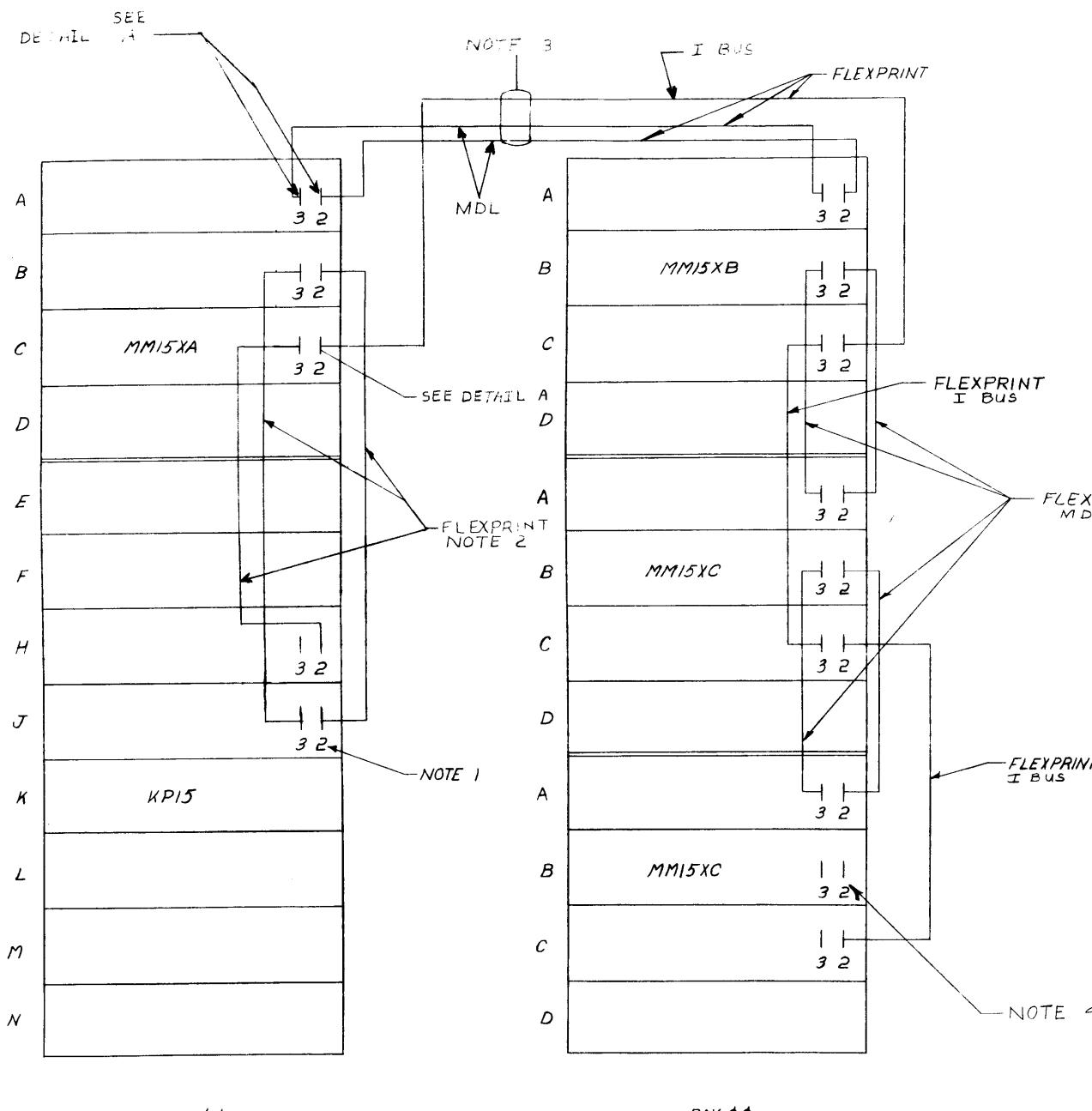
FROM	TO	DEVICE	LOCATION	CABLE NAME	CABLE #	CABLE TYPE	REMARKS
FP15	J29	BB15	BB2	BC99A-3	FLEXPRINT	NIF BB15 IS PART OF SYSTEM	
FP15	J38	BB15	BB3	BC99A-3	FLEXPRINT	NIF BB15 IS NOT PART OF SYSTEM	
FP15	J29	MM15A	BB2	BC99A-3	FLEXPRINT		
FP15	J38	MM15A	BB2	BC99A-3	FLEXPRINT		
CR15	AE07/08	POS I/O BUS	BC99E				
CR15	AB29/10	POS I/O BUS	BC99E				
CR15	AB01/02	CR15	7004594				
ME15	KP15						SEE PRINT A-SP-ME15-B
	OR						
	BE15						
	OR						
	MM15						
	CR						
	FP15						

FIRST USED ON/OPTION/MOD	QTY	DESCRIPTION	PART NO	ITEM NO
				PARTS LIST
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
DRA FLEMING	DATE	6-25-69		
CHK'D MAIDEN	DATE	6-30-69		
ENG SWAYSON	DATE	7-22-69		
PROJ ENG BUTLER	DATE	7-28-69		
PROD LASKEY	DATE	7-24-69		
MATERIAL				
FINISH				
SCALE				
SHEET				
NUMBER				
DAR PDP15-0-2				
REV				
SIZE				
LOC				
BAR				
SIZE LOC BAR				
REV				
ITEM NO				
CHANGE NO				
REV				
DEC 1969 NO				
REV D				

EQUIPMENT
LAYOUT
PDP-15

SIZE CODE
NUMBER
REV

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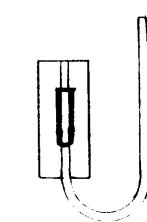


WIRE TABLE

CABLE				FROM		TO	
PART NO.	MODULES	WIRE	LG	OPTION	SLOT	OPTION	SLOT
4K OR	7006414-1	M918/M918	FLEXPRINT	8'	KP15	H2	MM15XA C3
8K	7006907-7-YA	M943/M943	FLEXPRINT	13 1/4"	KP15	J2	MM15XB B2
SYS	7006907-7-YA	M943/M943	FLEXPRINT	13 1/4"	KP15	J3	MM15XA B3
ADD FOR	7006414-2	M918/M918	FLEXPRINT	6'	MM15XA	C3	MM15XB C2
12K OR	BC08A-3	M903/M903	FLEXPRINT	3'	MM15XA	A2	MM15XB A2
16K SYS	BC08A-3	M903/M903	FLEXPRINT	3'	MM15XA	A3	MM15XB A3
ADD FOR	7006414-1	M918/M918	FLEXPRINT	8"	MM15XB	C3	MM15XC C3
20K OR	7006907-0E	M943/M943	FLEXPRINT	5 1/4"	MM15XB	B2	MM15XC A2
24K SYS	7006907-1E	M943/M943	FLEXPRINT	5 1/4"	MM15XB	B3	MM15XC A3
ADD FOR	7006414-1	M918/M918	FLEXPRINT	8"	MM15XC	C2	MM15XC C2
28K OR	7006907-0E	M943/M943	FLEXPRINT	5 1/4"	MM15XC	B2	MM15XC A2
32K SYS	7006907-0E	M943/M943	FLEXPRINT	5 1/4"	MM15XC	B3	MM15XC A3

NOTES:

1. NUMBERS INDICATE MODULE SLOTS.
2. IF BB15 IS IN SYSTEM, SEE PRINT
D-1C-B-101-D
3. ROUTE I BUS AND MDL CABLES
THROUGH TWO LENGTHS (A/R) OF
"ZIPPER TUBING" (DEC 9107679)
4. TWO MSG6 TERMINATORS GO TO
LAST MEMORY ON MDL LINES



DETAIL .

SIDE 2

4

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
DRN. D. FONTAINE	DATE 7-25-69	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
CHK'D. J. FLEMMING	DATE 7-29-69		
ENG. E. STRANGE	DATE 8-5-69	TITLE	
PROJ. ENG. G. BUTLER	DATE 8-5-69	SIGNAL WIRING	
PROD. FLASHKEY	DATE 8-5-69	PDP 15	
NEXT HIGHER ASSY A-ML - PDP15-O		SIZE CODE	NUMBER
		D IC	PDP15-O-3
SCALE NONE		REV. H	
SHEET 1 OF 1	DIST.		

REVISIONS			
CHK	CHANGE NO.	REV.	
208	15-00021	A	REVISED & REDRAWN
208	15-00020	A	15-00020
208	15-00022	B	E. STRANGE
208	15-00023	C	E. STRANGE
208	15-00024	D	T. GALLUCCI
208	15-00025	E	LAVOIE
208	15-00026	F	J. L. LAROCHE
208	15-00027	G	M. M. MURRAY
208	15-00028	H	R. AUMANN
208	15-00029	I	F. AUMANN
208	15-00030	J	F. AUMANN
208	15-00031	K	F. AUMANN
208	15-00032	L	F. AUMANN
208	15-00033	M	F. AUMANN
208	15-00034	N	F. AUMANN
208	15-00035	O	F. AUMANN
208	15-00036	P	F. AUMANN
208	15-00037	Q	F. AUMANN
208	15-00038	R	F. AUMANN
208	15-00039	S	F. AUMANN
208	15-00040	T	F. AUMANN
208	15-00041	U	F. AUMANN
208	15-00042	V	F. AUMANN
208	15-00043	W	F. AUMANN
208	15-00044	X	F. AUMANN
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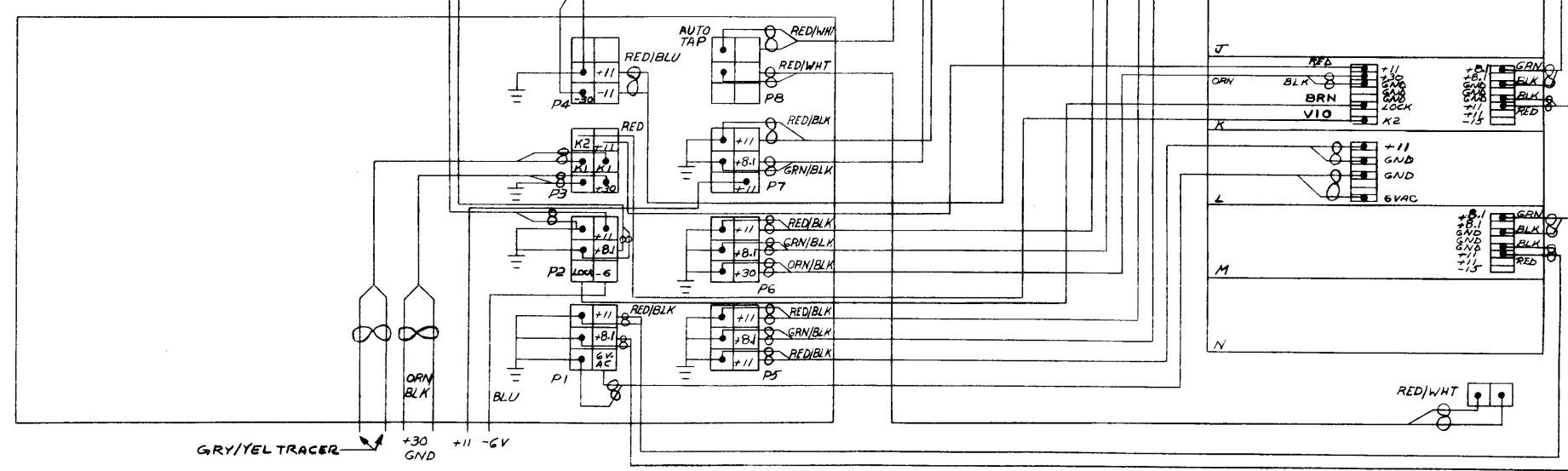
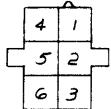
3

1

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WIRES W/FILE	
CONN P1	PIN 3 PIN 2 PIN 1 PIN 5 PIN 4 PIN 6
P1	+11 -5.1 GND GND GND GND
P2	+11 +3.1 -6 GND GND GND GND
P3	+11 6VAC +30 GND GND GND GND
P4	- FLOAT FLOOR - GND -30
P5	+11 -8.1 +11 GND GND GND
P6	+11 +8.1 +30 GND GND GND
P7	+11 +8.1 +11 GND GND -
P8	AC RED RED - GND GND WHT -

PIN CONFIGURATION
FOR CONN
P1-P8 (TOP VIEW)



CONSOLE

MAIN FRAME

REVISIONS	CHANGE NO	REV
CHK	15-00014	A
ORIGINATED	15-00022	B
RR	715-00078	C
OIC/NNFR	715-00078	D
Comments	2-17-70	
	15-00078	2-24-73
	ALM/FNN	
	Y. 22000	3/2/72

DEC FORM NO RD 102A

8

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5

4

3

2

1

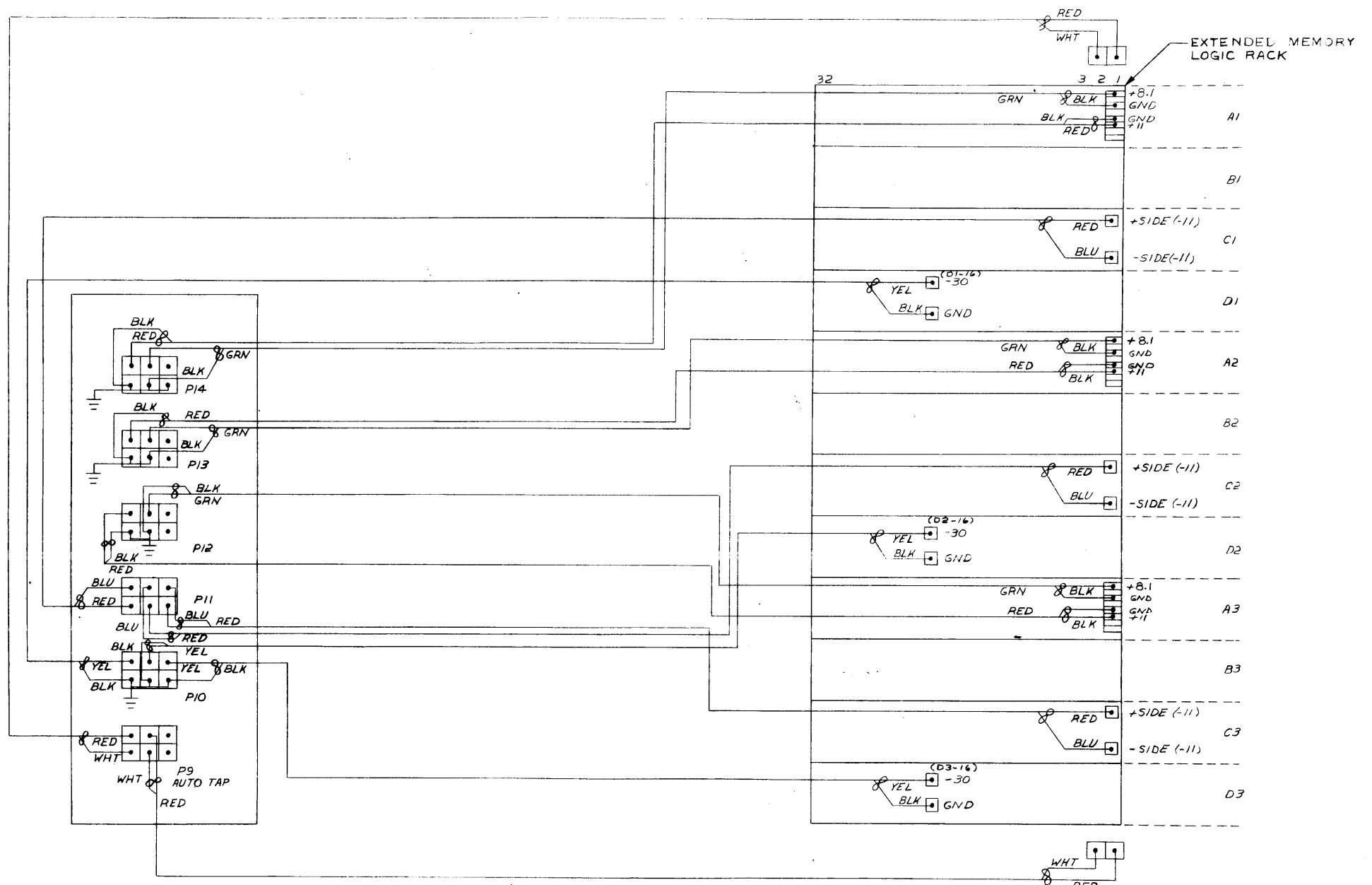
FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRA. NO. 14-111-103	DATE 10-29-69	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	CHKD. NO. 14-111-103	DATE 10-28-69	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES	ENG. NO. 14-111-103	DATE 10-28-69	MAYNARD MASSACHUSETTS	
TOLERANCES	PROJ. ENG. NO. 14-111-103	DATE 10-28-69	TITLE POWER WIRING	
DECIMALS FRACTIONS ANGLES	PROD. NO. 14-111-103	DATE 10-28-69	PDP-15	
$\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$	MATERIAL	DATE 10-28-69	SIZE CODE D IC PDP15-0-14	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	FINISH	DATE 10-28-69	NUMBER	REV. B
NEXT HIGHER ASSY A-ML PDP15-0 DIST. 1				
SCALE NONE SHEET 1 OF 2				

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PIN CONFIGURATION
FOR CONN 9-14
TOP VIEW

1	2	3
4	5	6

CONN	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
P9	AC HOT	FANS HOT	—	AC FANS NEUT	FAN	—
P10	-30	-30	-30	GND	GND	GND
P11	FLOAT	FLOAT	FLOAT	+ FLOAT	FLOAT	+ FLOAT
P12	+11	+8.1	—	GND	GND	—
P13	+11	+8.1	—	GND	GND	—
P14	+11	+8.1	—	GND	GND	—



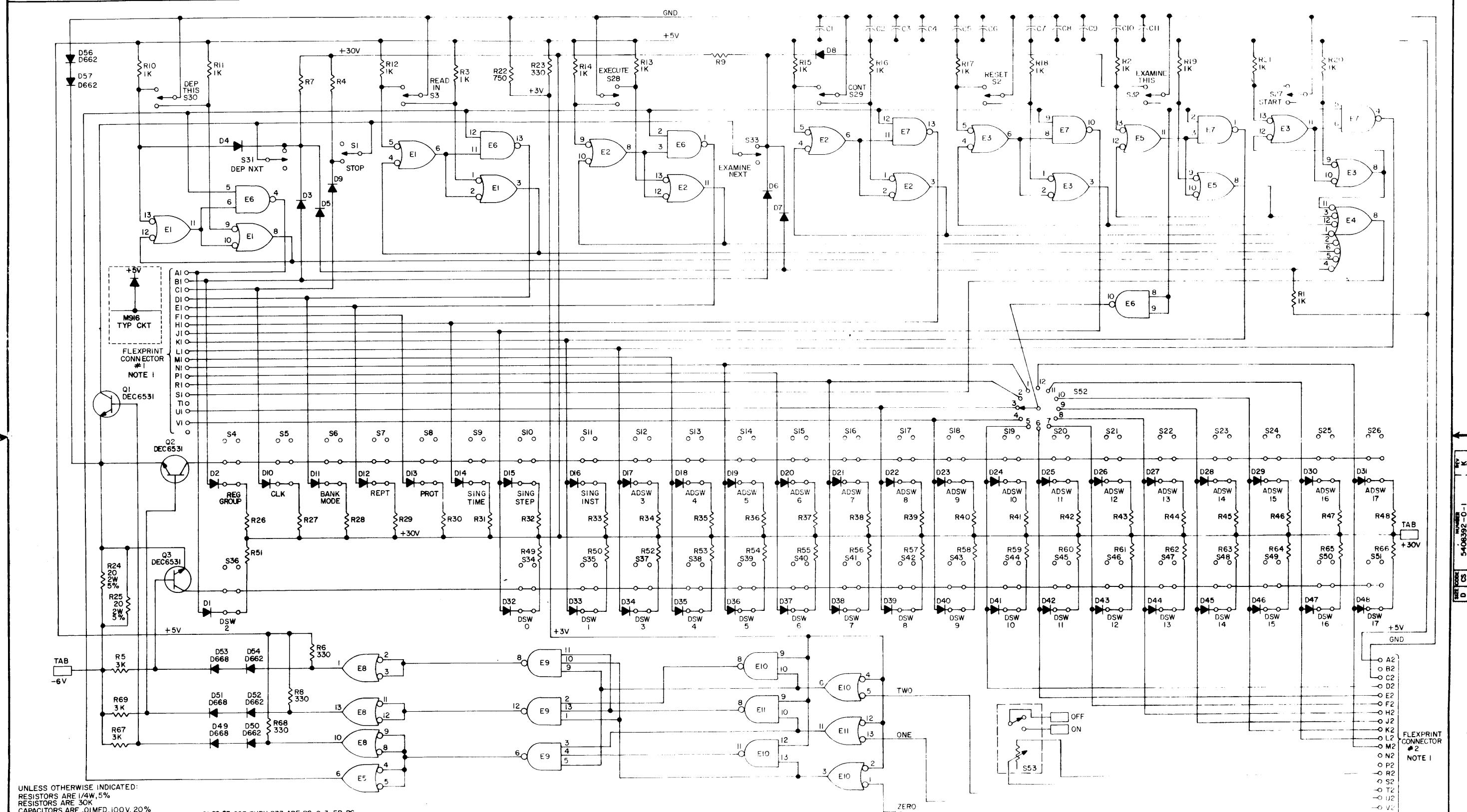
EXTENDED MEMORY

REVISIONS	REV
CHANGE NO.	
CHK	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DRN. 600000	DATE 10-27-69	EQUIPMENT CORPORATION
UNLESS OTHERWISE SPECIFIED	CHK'D. 600000	DATE 10-28-69	digital
DIMENSION IN INCHES	END. 600000	DATE 10-31-69	MAYNARD MASSACHUSETTS
TOLERANCES	PROJ. ENG. 600000	DATE 11-1-69	TITLE
DECIMALS ± .005	PROD. 600000	DATE 11-1-69	POWER WIRING
FRACTIONS ± 1/64	FIRST USED ON	DATE 11-1-69	PDP-15
ANGLES ± 0°30'	FINISH	SCALE 2 OF 2	SHEET 2 OF 2
FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS	SIZE CODE D	NUMBER PDP15-0-14	REV. C
MATERIAL	DIST.		

LINE	DESCRIPTION	REV
1	D. O'CONNOR	A-1
2	ECO C-1	F-7-6
3	KOSA, GOODMAN	B
4	FAUANN	C-2
5	FAUANN	C-2
6	FAUANN	C-2
7	FAUANN	C-2
8	FAUANN	C-2
9	FAUANN	C-2
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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
RESISTORS ARE 30K
CAPACITORS ARE .01MF D, 100V, 20%
DIODES ARE D672

**SI, S2, S3, S27 THRU S33 ARE RS-9-3-FB-PC
S4 THRU S26, S34 THRU S51 ARE RS-50-FB-P**

NOTE:
1. THE OTHER END OF THE FLEXPRINT CABLE
IS CONNECTED TO AN M916 MODULE WHICH
PROVIDES A DIODE CLAMP TO +5V FOR EACH LINE

REVISIONS	REV	CHG NO	REV	REV
1	A	00001	C	
2	B	00002	D	
3	C	00003	E	
4	D	00004	F	
5	E	00005	G	
6	F	00006	H	
7	G	00007	I	
8	H	00008	J	
9	I	00009	K	
10	J	00010	L	
11	K	00011	M	
12	L	00012	N	
13	M	00013	O	
14	N	00014	P	
15	O	00015	Q	
16	P	00016	R	
17	Q	00017	S	
18	R	00018	T	
19	S	00019	U	
20	T	00020	V	
21	U	00021	W	
22	V	00022	X	
23	W	00023	Y	
24	X	00024	Z	
25	Y	00025	AA	
26	Z	00026	AB	
27	AA	00027	AC	
28	AB	00028	AD	
29	AC	00029	AE	
30	AD	00030	AF	
31	AE	00031	AG	
32	AF	00032	AH	
33	AG	00033	AI	
34	AH	00034	AJ	
35	AI	00035	AK	
36	AJ	00036	AL	
37	AK	00037	AM	
38	AL	00038	AN	
39	AM	00039	AO	
40	AN	00040	AP	
41	AO	00041	AQ	
42	AP	00042	AR	
43	AQ	00043	AS	
44	AR	00044	AT	
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49	AW	00049	AY	
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54	BC	00054	BE	
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60	BI	00060	BL	
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112	BS	00112	BU	
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254	BE	00254	BG	
255	BF	00255	BH	
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320	BE	00320	BG	
321	BF	00321	BH	
322	BG	00322	BI	

X 2(TWO) IN5606 IN SERIES		
TRANSISTOR & DIODE CON		
DATE	DEC	FIA
6-11-79	D662	IN645
6-11-79	D672	IN3653
6-11-79	D668	1N582B
6-11-79	DEC5531	NONE

15 CONSOLE
ITCH BOARD

8

7

6

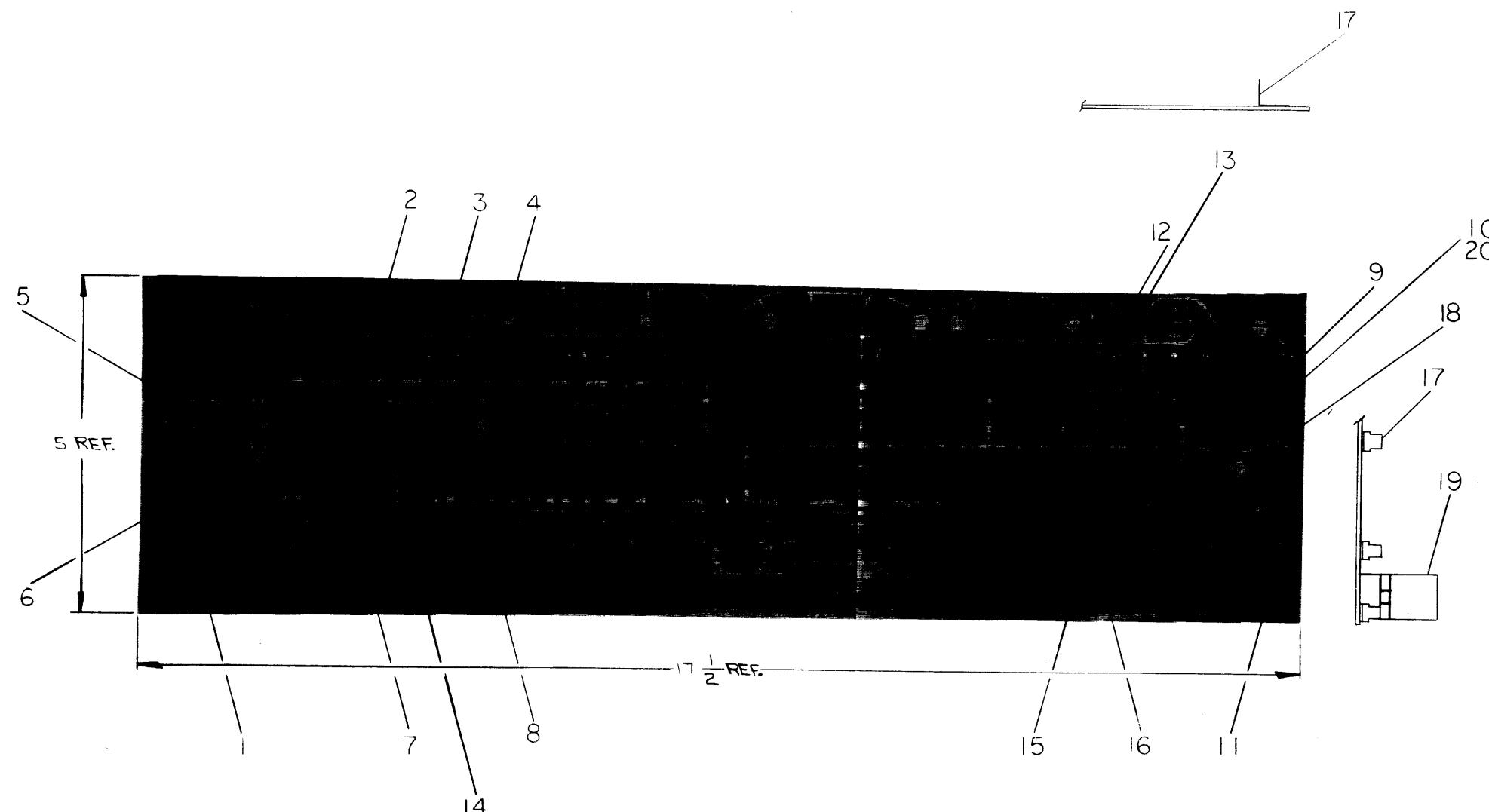
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4

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1

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REF	ASSY HOLE LAYOUT	J-AH-5408394-0-5	25
REF	X-Y COORD HOLE LOCATIONS	K-CO-5408394-0-4	24
REF	CIRCUIT SCHEMATIC	D-CS-5408394-0-1	23
			22
1	ETCHED CIRCUIT BOARD	5008393	21
140	SOCKET, MINIATURE SPRING	9007812	20
1	CONN 36 PIN	1209123	19
3	EYELET #G54-7	9006732	18
3	TAB # 42117-1	9008219	17
1	RES. 12 OHM 10W	1305400	16
1	DIODE #IN4733	1110488	15
2	CAP. 20 MFD	1002839	14
2	RES. 750 OHM 1/4W 5%	1301401	13
2	RES. 330 OHM 1/4W 5%	1300295	12
36	RES. 1K 1/4W 5%	1300365	11
10	LAMP #2335	1209169	10
70	TRANS #G531	1509338	9
15	CAP .01 MFD	1001610	8
6	IC #SN7401	1905590	7
2	IC # SN7400	1905575	6
1	IC #SN7410	1905576	5
12	TRANS #2219A	1501881	4
24	CAP. .047MFD	1003053	3
6	IC # SN7440	1905579	2
			1

PARTS LIST			
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	BOARD CONSOLE LIGHT	DIA 5408394-0-0	D
1	NEUTRAL	DIA-7006388-0	
1	FINISH	SCALE NONE	
		SHEET 1 OF 1	DIST. C

REVISIONS	CHANGE NO.	REV.	
CHK	15 00034	A	
	14 00034	B	
	13 00034	C	
	12 00034	D	
	11 00034	E	
	10 00034	F	
	9 00034	G	
	8 00034	H	
	7 00034	I	
	6 00034	J	
	5 00034	K	
	4 00034	L	
	3 00034	M	
	2 00034	N	
	1 00034	O	
	0 00034	P	
	- 00034	Q	
		R	
		S	
		T	
		U	
		V	
		W	
		X	
		Y	
		Z	

DEC FORM NO.

8

7

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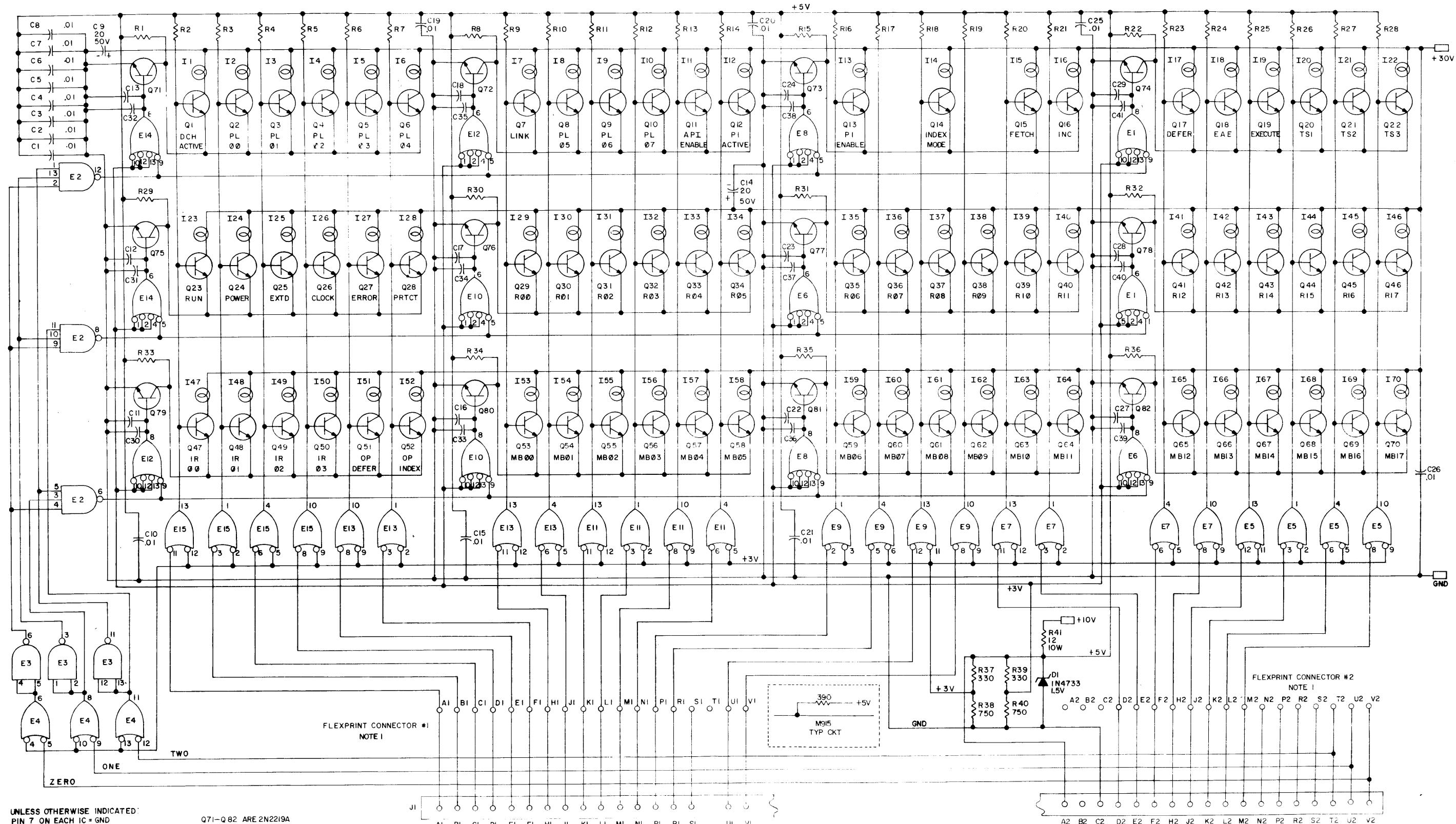
A

B

D

C

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UNLESS OTHERWISE INDICATED:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1,E6,E8,E10,E12,E14 ARE DEC7440N
E2, IS DEC7410N

E3,E5 ARE DEC7400N

E5,E7,E9,E11,E13,E15 ARE DEC7401N

CAPACITORS ARE MFD, 100V

LIGHTS ARE #2335

RESISTORS ARE 1K, 1/4W, 5%

TRANSISTORS ARE DEC6531

Q71-Q82 ARE 2N2219A
C11-C13,C16-C18,C22-C24,C27-C41 ARE .047 MFD 250V

NOTE 1:
THE OTHER END OF FLEXPRINT CABLE IS CONNECTED TO
AN M915. THIS PROVIDES A PULL UP OF 390 OHMS TO +5V
FOR EACH LINE.

REVISIONS	REV	REV	REV
CHG	0000	0000	0000
CHG	0000	0000	0000
CHG	0000	0000	0000
CHG	0000	0000	0000

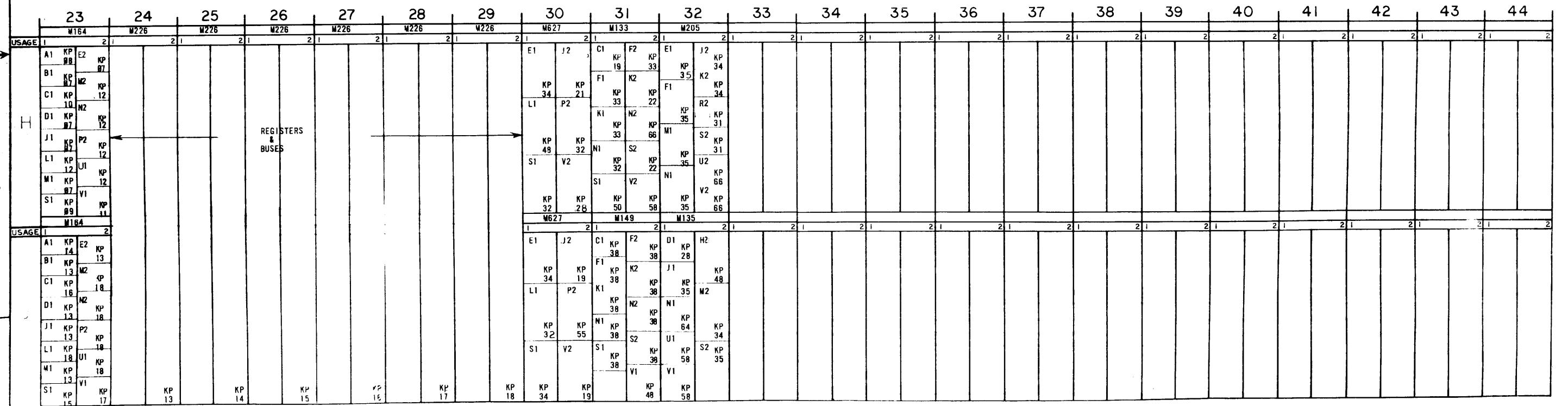
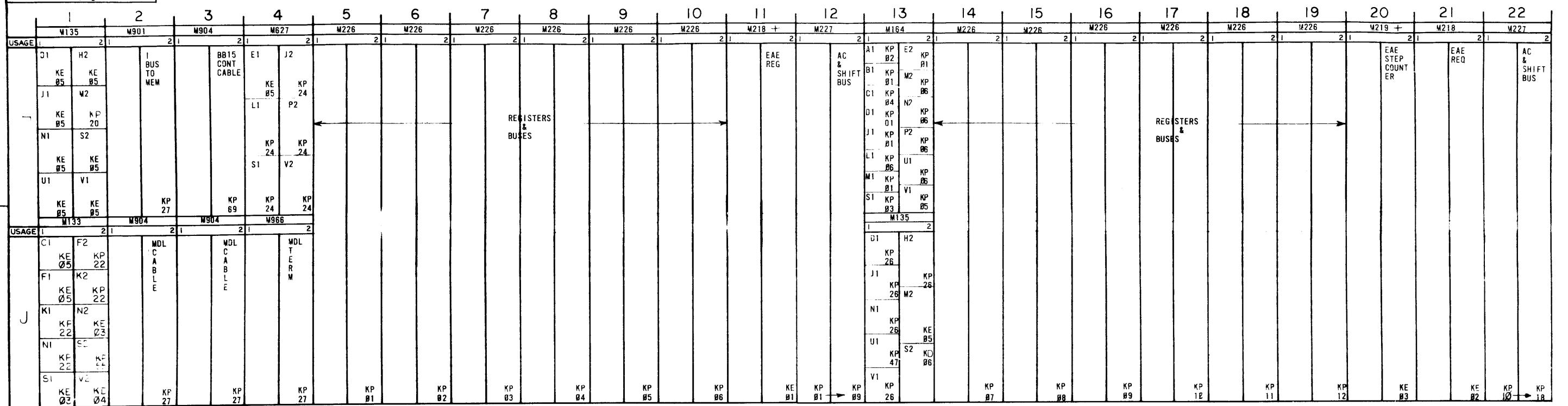
DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART	TITLE
7-7-69			CONSOLE INDICATOR PANEL
7-7-69			5408394
2N2219A	2N2219A		
DEC6531	NONE		
IN750	SAME		
IN4733	SAME		
DIGITAL			
EQUIPMENT			
CORPORATION			
MAYNARD, MASSACHUSETTS			
PRINTED CIRCUIT REV	E1		

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I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
M216	M133	M149	M161	M133	M111	M133	M205	M127	M133	M135	M611	M627	M627	M135	M133	M627	M611	M127	M770T	M103	M611		
USAGE	I	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1		
E	C1 KE 05	H2 KE 05	C1 F2 KP 19	C1 F2 KP 19	C1 KP 30	B1 KP 55	D2 KP 23	C1 KP 47	F2 KP 22	J2 KP 22	C1 KP 24	F2 KP 24	D1 KP 47	H2 KP 22	B1 KP 34	F2 KP 19	E1 KP 24	H2 KP 22	C1 KP 22	F2 KP 24	B1 KP 21	F2 KP 23	
F1	KE 05	J2 KE 05	F1 K2	K2	F1 KP 28	E1 KP 28	F2 KP 22	F1 KP 48	K2 KP 22	R2 KP 22	F1 KP 24	K2 KP 24	J1 KP 28	H1 KP 28	L1 KP 22	P2 KP 23	J1 KP 24	H1 KP 22	F1 KP 22	K2 KP 24	E1 KP 48	J2 KP 29	
L1	KE 05	P2 KE 05	KP 19	KP 19	K1 KP 43	K1 KP 30	K2 KP 22	K1 KP 48	K2 KP 28	S2 KP 22	K1 KP 24	K2 KP 19	K1 KP 19	N2 KP 28	K1 KP 29	S2 KP 30	K1 KP 24	N2 KP 24	K1 KP 23	N2 KP 34	K1 KP 33	L2 KP 20	
M1	KE 05	R2 KE 05	KP 19	KP 19	N1 KP 43	N1 KP 30	S2 KP 30	M1 KP 48	N2 KP 22	KP 22	N1 KP 24	S2 KP 19	M1 KP 24	N1 KP 19	S2 KP 22	KP 22	N1 KP 24	S2 KP 24	M1 KP 33	R2 KP 20	K1 KP 34		
S1	KE 05	V2 KE 05	KP 19	KP 47	S1 KP 43	S1 KP 30	S2 KP 30	S1 KP 47	T2 KP 30	U2 KP 22	S1 KP 24	S2 KP 22	S1 KP 30	V2 KP 23	S1 KP 24	V2 KP 23	S1 KP 24	V2 KP 24	S1 KP 19	V2 KP 19	S1 KP 31	V2 KP 34	
U1	KE 05	V1 KE 05	S1 V2	V1	KP 35	KP 19	KP 43	KP 30	KP 30	KP 30	KP 19	KP 23	KP 22	KP 19	KP 28	KP 23	KP 19	KP 24	KP 19	KP 48	KP 28	KP 23	
M133	M121	M129	M127	M139	M139	M139	M206	M139	M139	M139	M611	M627	M627	M627	M627	M627	M627	M627	M627	M135	M129		
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E	C1 KP 48	F2 KP 48	E1 J2	B2 KP 22	J2 KP 30	E1 J2	J2 KP 30	E1 J2	J2 KP 30	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2	E1 J2		
F1	K2 KP 22	KE 05	KP 22 KP 30	C1 P2	KP 22	KP 30	KP 30	KP 30	KP 30	KP 30	KP 47	KP 30	KP 31	KP 19	KP 31	KP 19	KP 32	KP 47	KP 19	KP 48	KP 47	KP 29	
K1	N2 KP 22	KP 05	L1 P2	KP 22	L1	KP 22	KP 30	L1 P2	KP 21	P2	L1	KP 47	P2	KP 31	M1 KP 31	P2	KP 20	R2 KP 22	K1 KP 19	L2 KP 19	K1 KP 19	KP 29	
N1	S2 KP 22	KP 03	KP 22 KP 30	S1 V2	V2	S1 V2	KP 30	S1 V2	KP 21	KP 30	S1 V2	KP 30	KP 30	KP 30	UT KP 31	S1 V2	KP 20	V2	KP 48	KP 19	KP 19	KP 19	KP 29
S1	V2 KP 03	V2 KP 03	R1	KP 24	KP 47	KP 47	KP 30	KP 47	KP 30	KP 30	KP 30	KP 19	KP 31	KP 31	KP 30	KP 30	KP 28	V2 KP 31	V2 KP 31	V1 KP 30	V2 KP 19	KP 29	
M133	M139	M133	M111	M205	M133	M135	M627	M149	M135	M135	M611	M627	M627	M627	M627	M627	M627	M627	M627	M627	M627	M627	
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E	E1 J2	D1 H2	KP 20 KP 24	A1 J2	A1 J2	A1 J2	A1 J2	A1 J2	A1 J2	E1 KP 55	H2 KP 22	HS CLK & TIME STATES	D1 H2	C1 F2	KP 24 KP 24	J1 M2	F1 KP 32	KP 21	C1 F2	KP 24 KP 24	E1 J2	E1 J2	
L1	P2	KP 20 KP 29	J1 M2	KP 20 KP 29	H1 P2	H1 P2	H1 P2	H1 P2	H1 P2	F1 KP 55	J2 KP 22		J1 M2	F1 KP 32	KP 21	J1 KP 19	P2 KE 05	KP 34	K1 N2	KP 32	E1 J2	E1 J2	
K1	KP 31 KP 48	N1 S2	KP 20 KP 20	KP 20 KP 20	KP 20 KP 20	KP 20 KP 20	KP 20 KP 20	KP 20 KP 20	KP 20 KP 20	L1 KP 48	R2 KP 31		N1 S2	N1 S2	N1 S2	N1 KP 24	N2 KP 32	N1 S2	N2 KP 34	N1 S2	E1 J2	E1 J2	
S1	V2 KP 20	V1 KP 47	P1 U2	P1 U2	P1 U2	P1 U2	P1 U2	P1 U2	P1 U2	S1 KP 47	V2 KP 21		U1 V1	U1 V1	U1 V1	U1 KP 34	V2 KP 34	S1 V2	V2 KP 34	S1 V2	E1 J2	E1 J2	
KP 24	KP 20	KE 05	KP 20 KP 20	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	KP 21	
M135	M139	M133	M111	M205	M133	M135	M627	M149	M135	M135	M611	M627	M627	M627	M627	M627	M627	M627	M627	M627	M627	M627	
USAGE	I	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1		
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J1	M2 P2	KP 33 KP 32	K2 KP 32	K1 KP 32 KP 35	H1 KP 32 KP 32	J2 KP 34	F1 KP 34	R2 KP 34	N1 KP 48	K2 KP 35	L1 KP 42	K1 KP 42	J1 KP 32	M2	N1 KP 42	K2 KP 35	N1 KP 42	S2 KP 32	N2 KP 32	N1 KP 42	E1 J2	E1 J2	
N1	KP 34 S2	KP 33 V2	K1 N2	K1 KP 31 KP 34	M1 KP 31 KP 34	S2 KP 34	M1 KP 34	S2 KP 34	N1 KP 48	K2 KP 32	K1 KP 42	N1 KP 42	S1 KP 42	S2 KP 32	S1 KP 42	S2 KP 32	N1 KP 42	S2 KP 32	S1 KP 42	N2 KP 32	E1 J2	E1 J2	
U1	KP 34 V2	KP 34 KP 34	S1 V2	S1 KP 28 KP 34	T2 KP 35	S1 V2	KP 34	KP 34	KP 58	S2 KP 32	S1 KP 42	S1 KP 42	S1 KP 42	S2 KP 32	S1 KP 42	S2 KP 32	S1 KP 42	S2 KP 32	S1 KP 42	S2 KP 32	E1 J2	E1 J2	
V1	KP 34 KP 34	KP 34 KP 34	KP 22 KP 29	KP 22 KP 31	KP 21 KP 31	KP 21 KP 34	KP 34	KP 34	KP 34	KP 32	KP 28	KP 28	KP 28	KP 28	KP 28	KP 28	KP 28	KP 28	KP 28	KP 28	E1 J2	E1 J2	

REVISIONS		CHANGE NO.	REV.	FIRST USED ON OPTION / MODEL		DO NOT SCALE DRAWING		DRAWN BY		EQUIPMENT CORPORATION	
CHG.	FORM NO.					UNLESS OTHERWISE SPECIFIED		CHK'D.	DATE	MAYNARD, MASSACHUSETTS	
REVISED + RELEASED		KP15-C-0065	E			DIMENSION IN INCHES		APPROVED	DATE		
F. AUMANN		KP15-00065	H			TOLERANCES		DESIGNER	DATE		
F. AUMANN		Si. William 10-18-71				DECIMALS PREFERRED ANGLES		ED. AUMANN	DATE		
F. AUMANN		KP15-C-0062	J			.005 = 1/64 = 9°30'		PROJ. ENG.	DATE		
F. AUMANN		KP15-C-0062	K			FINAL SURFACE QUALITY		PROD.	DATE		
F. AUMANN		KP15-C-0062	L			REMOVE BURRS AND BREAK SHARP CORNERS		MANUFACTURED	DATE		
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F. AUMANN		KP15-C-0062	J								

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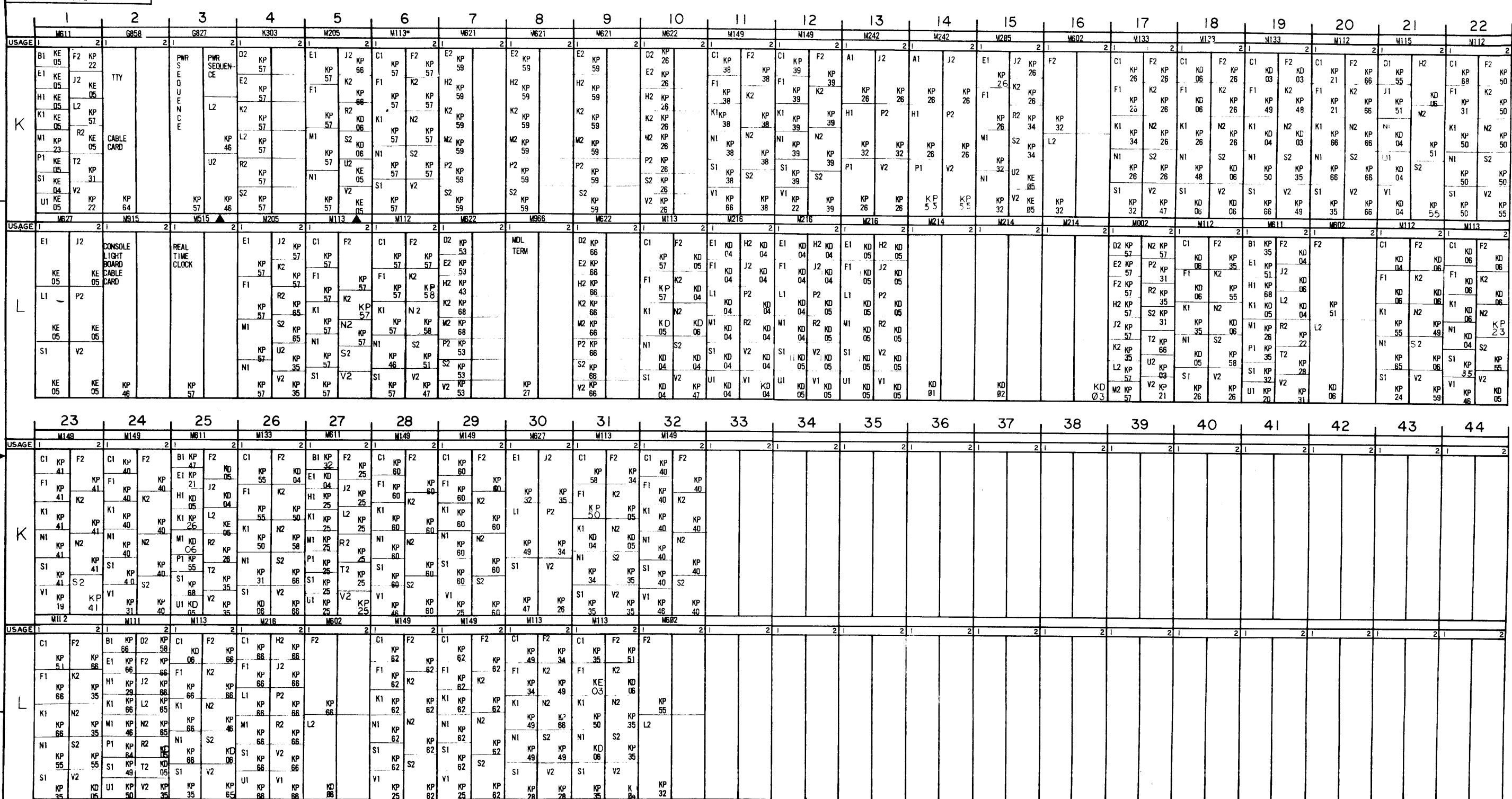
+ EAE OPTION M770 IN EF28
REPLACED BY G614 IF EAE OPTION
NOT INSTALLED

FIRST USED ON OPTION / MODEL		DO NOT SCALE DRAWING	
		UNLESS OTHERWISE SPECIFIED	
		DIMENSION IN INCHES	
		TOLERANCES	
		DECIMALS FRACTIONS ANGLES	
		$\pm .006$ $\pm 1/64$ $\pm 0^{\circ}30'$	
		FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS	
		MATERIAL	
		NEXT HIGHER ASSY	
		FINISH	
		SCALE	NUMBER
		SHEET 2 OF 4	REV. 1

DRN: J. OSBOURN DATE: 1/17/67
CHK'D: HOHOS DATE: 1/17/67
ENG: FAUmann DATE: 1/17/67
PROJ. ENG: G. BUTLER DATE: 1/17/67
PROD: K. TONKIN, S. COOK DATE: 1/17/67
TITLE: digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
MODULE UTILIZATION
SIZE CODE: D1MUKP15 Ø 102 NUMBER: D1MUKP15 Ø 102 REV. 1

REV. 1
CHARGE NO. 1
REVISIONS

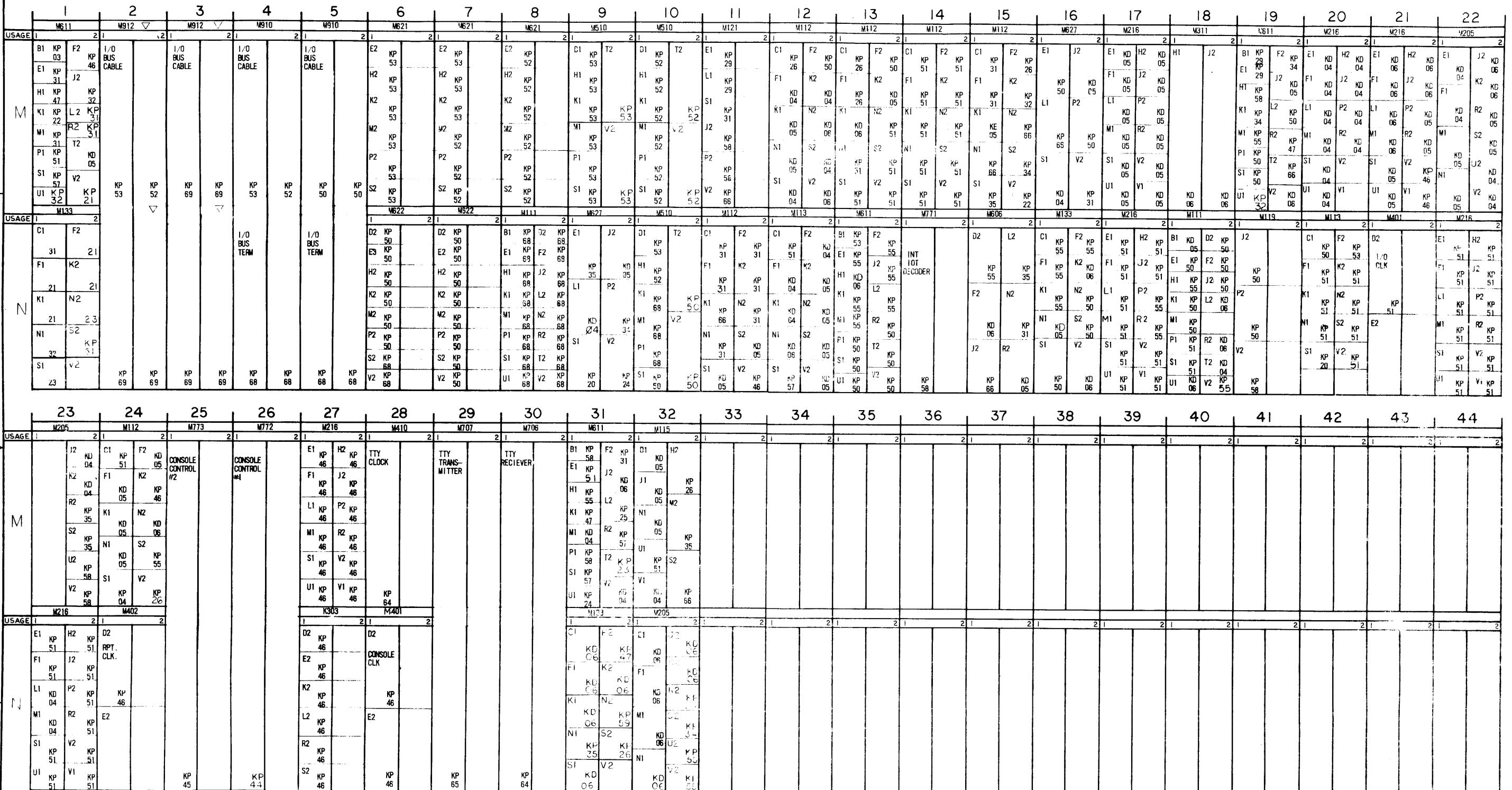
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. 1972



- * POWER FAIL OPTION
- ▲ REAL TIME CLOCK OPTION
- ▽ IF NO I/O BUS CABLE INSTALLED,
4 NS89S WILL BE. M989S. SHOULD
BE MOVED TO END OF BUS WHEN CAR-
IS INSTALLED.

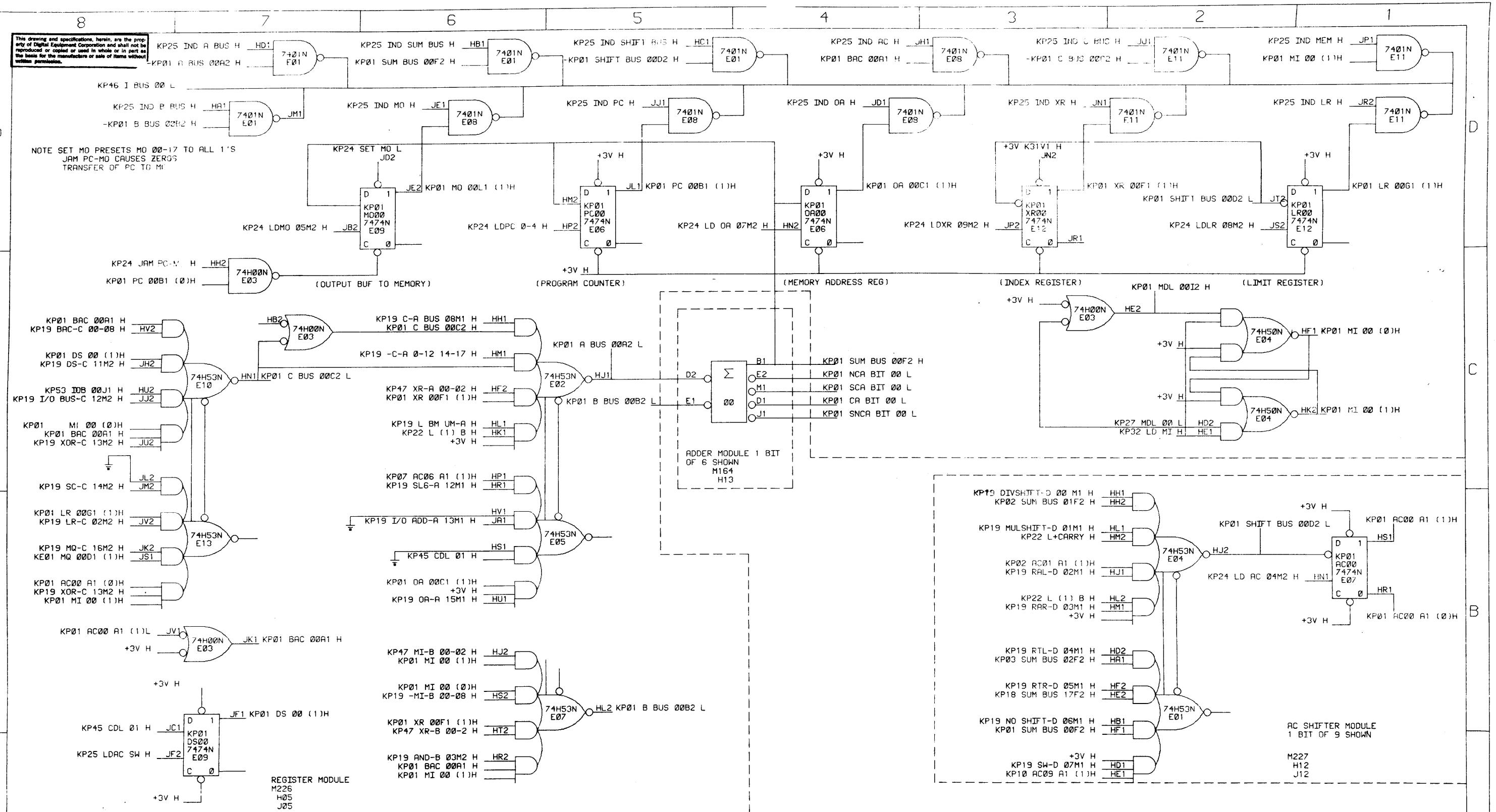
FIRST USED ON OPTION / MODEL	DO NOT SCALE DRAWING		DRN.	DATE	EQUIPMENT CORPORATION		
	UNLESS OTHERWISE SPECIFIED		J. OSBORN	10-13-19	MAYNARD, MASSACHUSETTS		
	DIMENSION IN INCHES		CHK'D.	DATE			
	TOLERANCES		L. HOHCS	10-13-67			
	DECIMALS	FRACTIONS	ENG.	DATE			
	± .000	1/64	F. AUMANN	10-13-67			
	± 0.000 ± 1/64 ± 0°30'		PROJ. ENG.	DATE			
	FINAL SURFACE QUALITY /		G. BUTLER	DATE			
	REMOVE BURRS AND BREAK SHARP CORNERS		PROD.	DATE			
	MATERIAL		RANT CNUCCIO	DATE			
		NEXT HIGHER ASSY					
FINISH		SCALE		SIZE CODE		NUMBER	RFV
		SHEET 3 OF 1		D	MU	K-17-D-104	F
				DIST.			

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▽ IF NO I/O BUS CABLE INSTALLED,
4 M909 WILL BE M909S SHOULD
BE MOVED TO END OF BUS WHEN CABLE
IS INSTALLED.

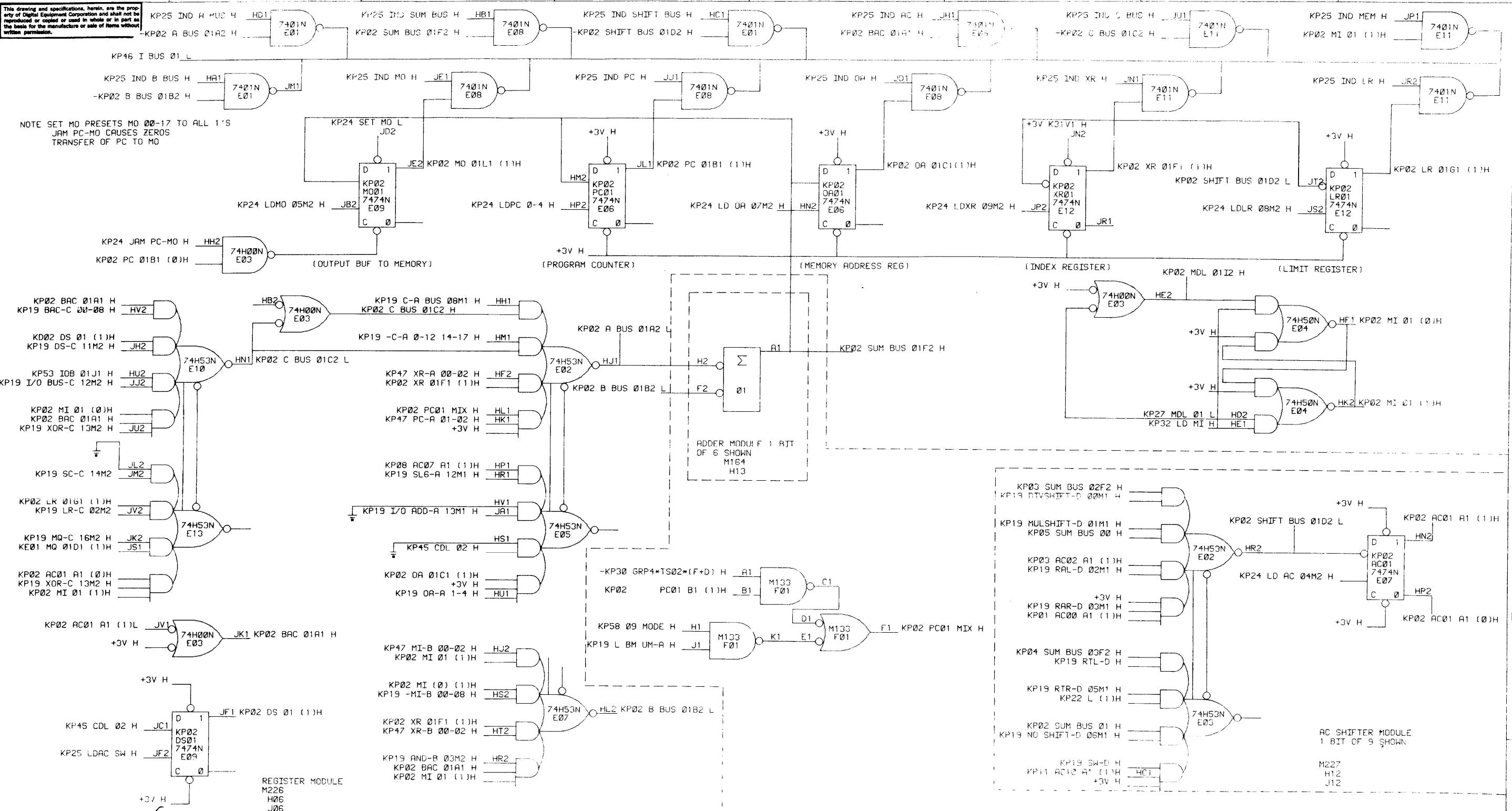
FIRST USED ON OPTION/MODEL	DO NOT SCALE DRAWING		
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		
TOLERANCES			
DECIMALS FRACTIONS ANGLES $\pm .005$ $= 1/64$ $\pm 0^{\circ}30'$			
FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
FINISH			
SCALE		NEXT HIGHER ASSY	
SHEET 1 OF 1		DIST.	
DRN. J. OSBORN DATE 10-3-67			
CHK'D. L. MCLOS DATE 10-3-67			
ENG. FAUmann DATE 10-12-67			
PROJ. ENG. G. BUILER DATE 10-12-67			
PROD. R. ANTONUCCIO DATE 10-12-67			
TITLE			
 EQUIPMENT CORPORATION 1000 N. MICHIGAN AVENUE, CHICAGO, ILLINOIS 60611			
MODULE UTILIZATION			
SIZE CODE		NUMBER	
D MU		REV. K	



REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	D	J	KP15-C03	J
S	GOLDSBY 7-14-70		G	7-14-71	
F	AUMANN 7-22-70		F	DCLL	
GH	KP15-00046	E	F	7-22-71	
K	WALSH 12/11/70				
F	AUMANN 12/11/70				
GH	KP15-00052	F			
S	GOLDSBY 3/1/71				
F	AUMANN 3/2/71				
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	7-22-71				

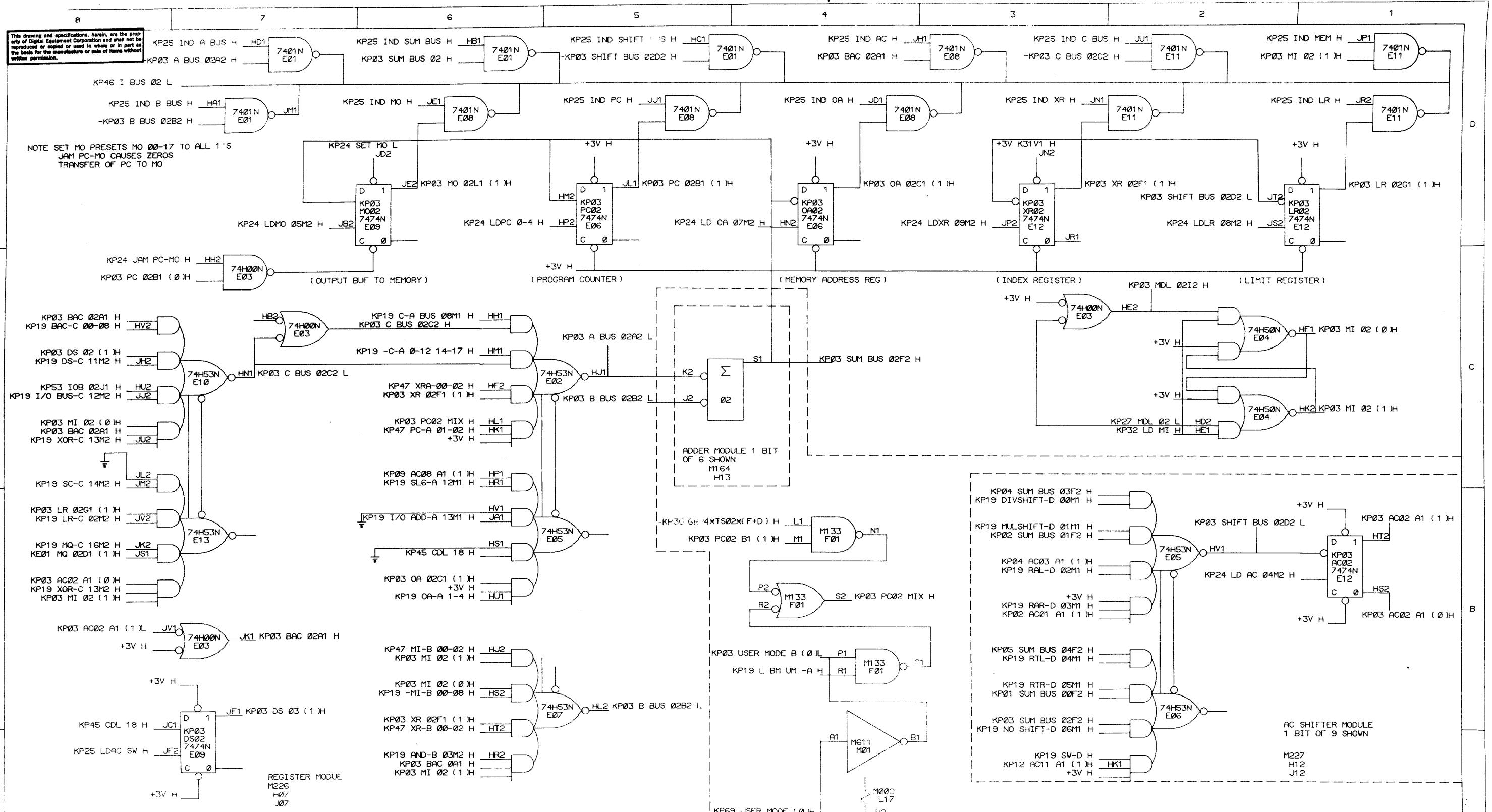
DRN. M. SCHURMAN	DATE 11-7-69	EQUIPMENT CORPORATION	
CHKD. N. RHEULT	DATE 11-7-69	digital	
ENG. F. AUMANN	DATE 11-7-69	MAYNARD, MASSACHUSETTS	
PROJ. ENG. G. BUTLER	DATE 11-7-69	TITLE REG & BUS BIT 00	
PROD. F. LASKEY	DATE 11-7-69		
FIRST USED ON KP15		SIZE CODE D. BS	NUMBER KP15-0-01
		REV. J	
SCALE SHEET 1 OF 1	DIST.		

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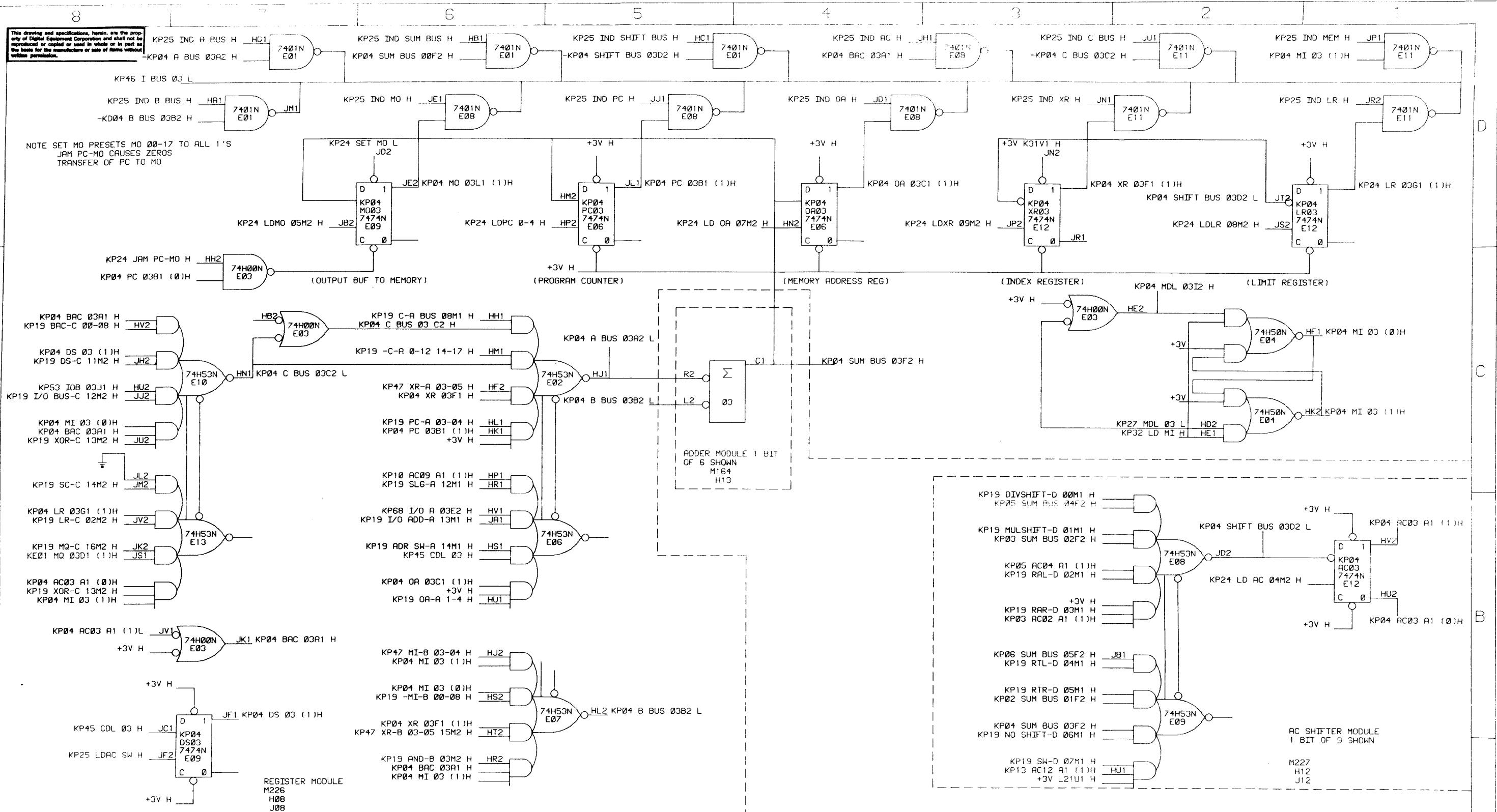
REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	D	S	KP15-00038	H
S	GOLDSBY 7/15/70		S	GOLDSBY 7/15/70	
F	HUMANN 7/22/70		F	HUMANN 7/22/70	
SH	KP15-00052	E	T	KP15-00052	E
S	GOLDSBY 3/1/71		S	GOLDSBY 3/1/71	
F	HUMANN 3/2/71		F	HUMANN 3/2/71	
	KP15-00056	F		KP15-00056	F

M.SCHURMAN	DATE 7-69	digital EQUIPMENT
CHKD	N.RHEULT	CORPORATION
ENG	DATE 7-69	MAINTAINANCE
PROFNG	DATE 7-69	REG & BUS BIT 01
PROD	DATE 7-69	
FIRST USED ON		
KF15		
SIZE CODE	NUMBER	REV.
D 65	KP15-0-02	H
SCALE		
SHEET 1 OF 1	DIST.	



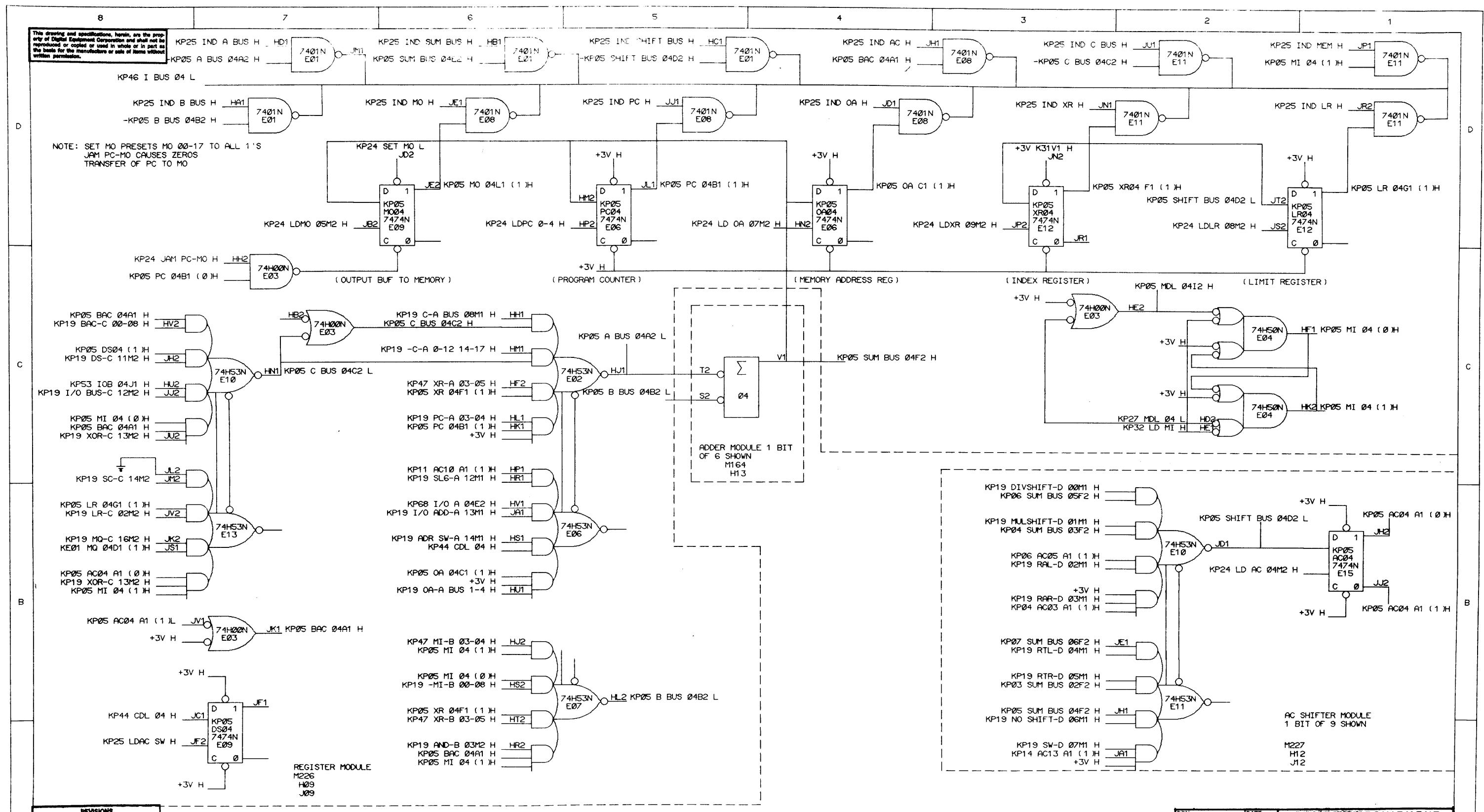
REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
L4	KP15-00038	E	Y	X	1
	S GOLDSBY 7/22/70				
F	AULMANN 7/22/70				
GH	KP15-00052	F			
				F	ULL

DRN. M. SCHURMAN	DATE 11-7-69	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. N. RHEAULT	DATE 11-7-69	TITLE	
ENG. F. AUMANN	DATE 11-7-69	REG & BUS BIT 02	
PROJ. ENG. G. BUTLER	DATE 11-7-69		
PROD. F. LASKEY	DATE 11-7-69		
FIRST USED ON KP15			
SCALE	SIZE D. BS	NUMBER KP15-0-03	REV. ↓
SHEET 1 OF 1	DIST.		



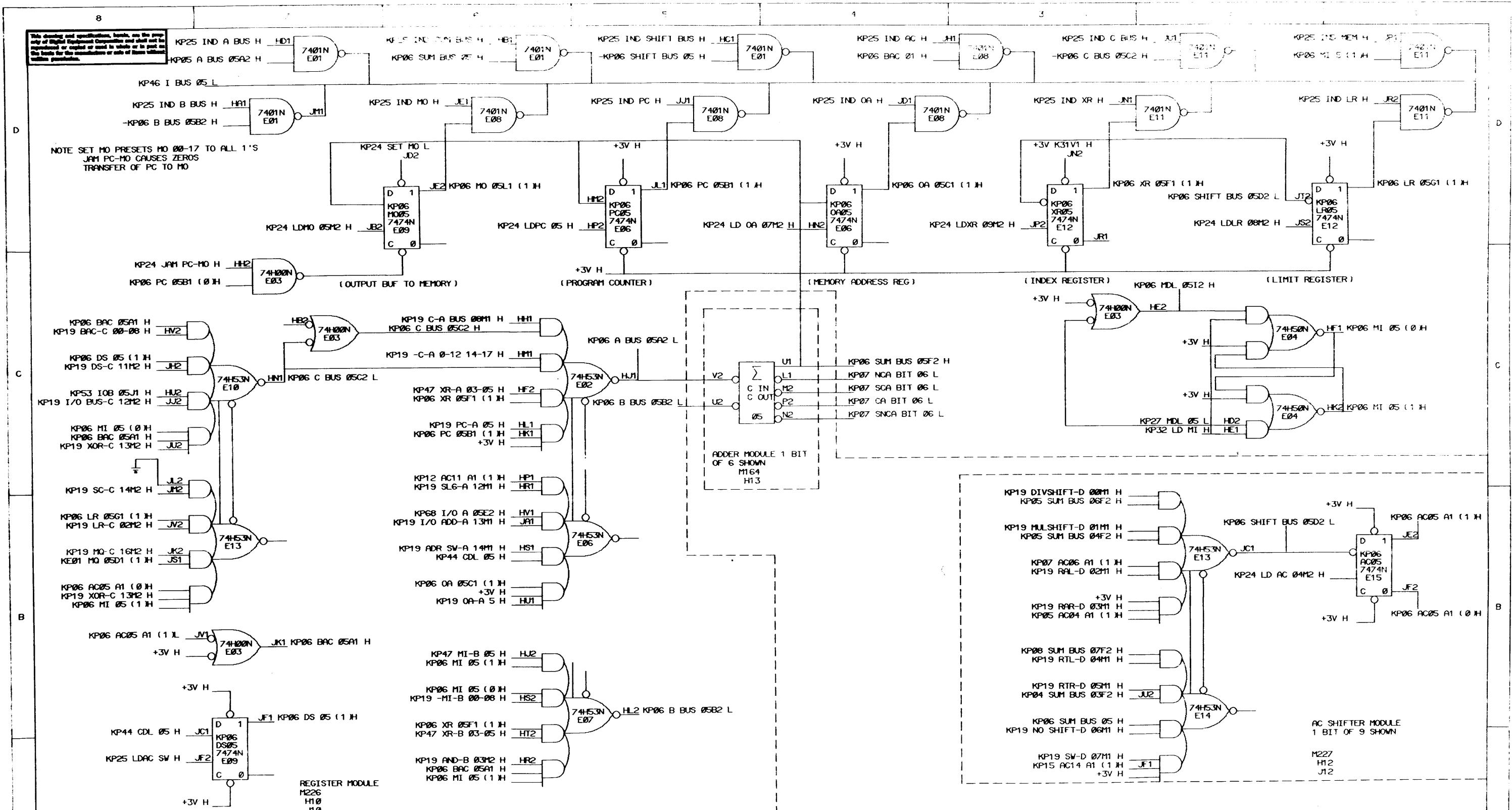
REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00039	C
	S GOLDSBY 7/17/70	
F HUMANN 7/22/70		
GH	KP15-00052	D
	S GOLDSBY 3/1/71	
F ALUMANN 3/2/71		
	KP15-00056	E
	7/26/71	
	7/26/71	
	7/26/71	

DRN.	DATE	digital EQUIPMENT CORPORATION
J. FASSHAUER	10/7/69	
R COOK	10/7/69	
G. HUMANN	10/7/69	
ENG.	DATE	TITLE
G. BUTLER	10/7/69	REG & BUS BIT 03
F. LASKEY	10/7/69	
PROD.	DATE	
FIRST USED ON		
KP15		
SIZE	CODE	NUMBER
U	BS	KP15-0-09
SCALE		REV.
1	OF 1	E
SHEET	DIST.	

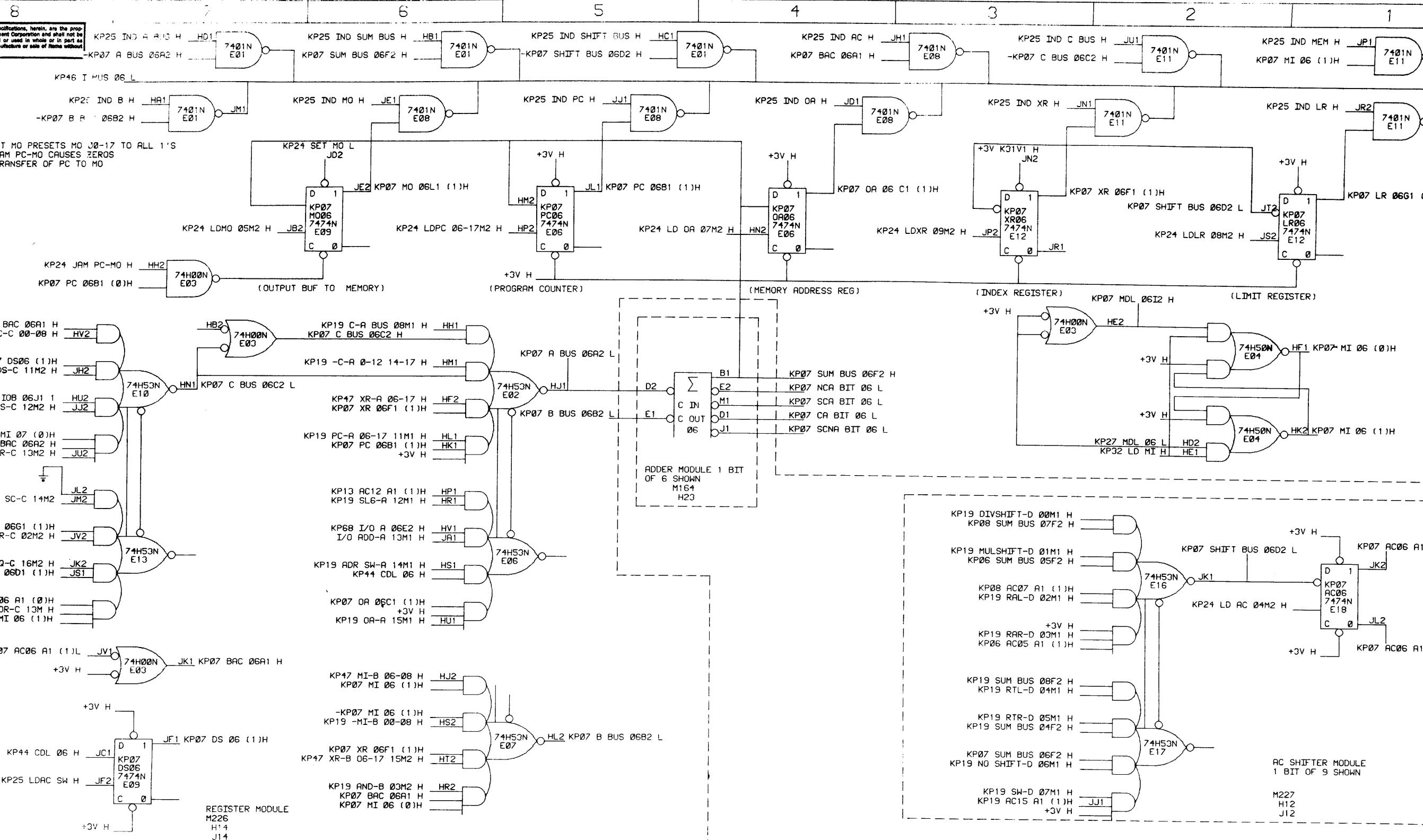


REVISIONS		
CHG	CHANGE NO.	REV.
LH	KP15-00038	C
S	GOLDSBY 7/15/70	
F	AUHMANN 7/22/70	
GH	KP15-00052	D
S	GOLDSBY 3/1/71	
F	AUHMANN 3/2/71	
DNW	KP15-00056	E
	1. P.C. 6/29/71	
	2. D. 6/29/71	
	3. D. 6/29/71	

DRN	J. FASSHAUER	DATE	10/7/69	d	1	EQUIPMENT CORPORATION
CHKD	R. COOK	DATE	10/7/69			MAYNARD, MASSACHUSETTS
ENG	F. AUHMANN	DATE	10/7/69	TITLE		
PROL ENG	G. BUTLER	DATE	10/7/69	REG & BUS BIT 04		
PROD	F. LASKEY	DATE	10/7/69			
FIRST USED ON			KP15			
SCALE	D	BS	KP15-0-05	NUMBER		REV. E
SHEET	1	OF	1	DIST.		

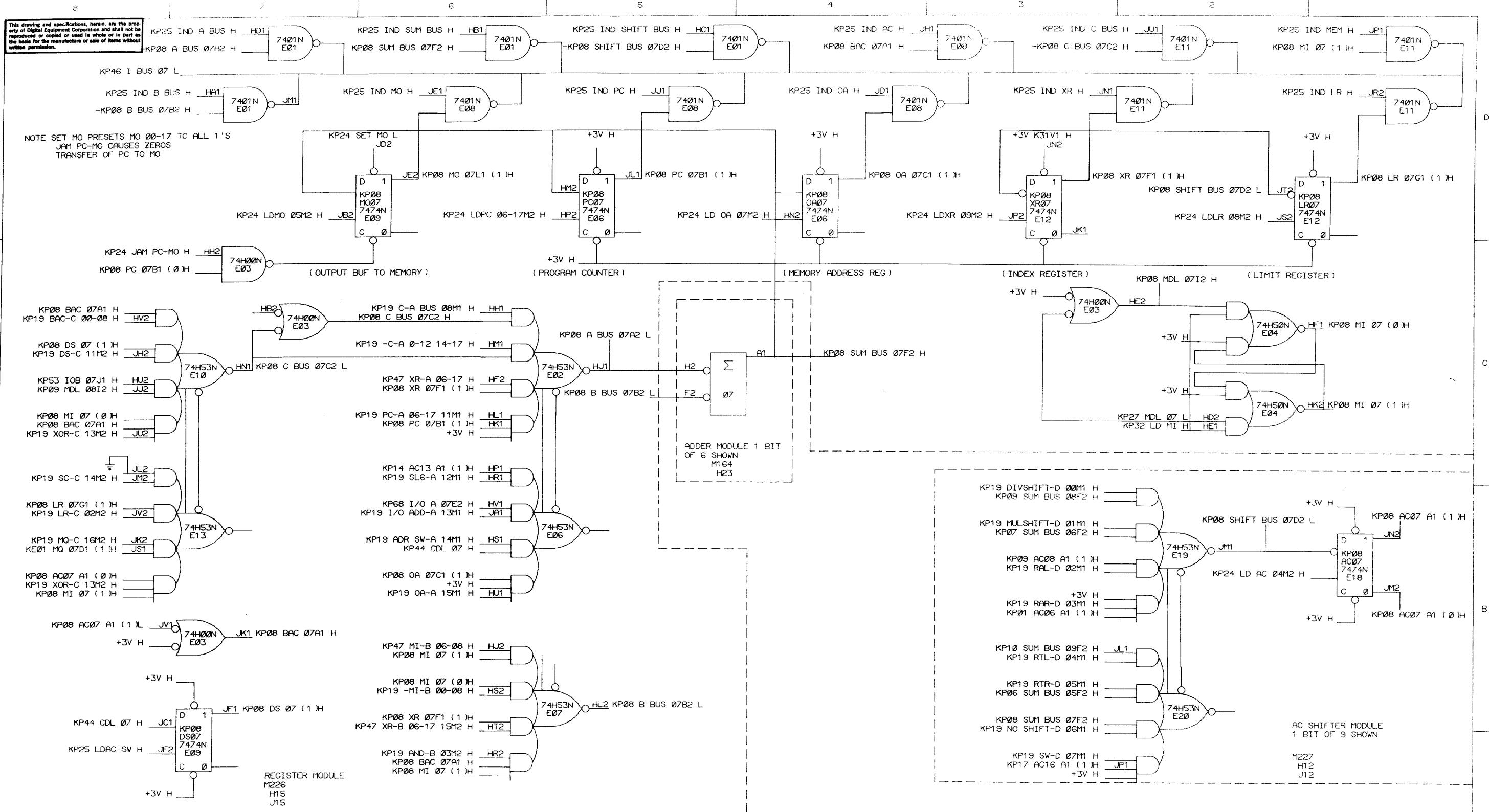


DRN: J FASSHAUER	DATE: 10/7/69	EQUIPMENT CORPORATION	
CHKD: R COOK	DATE: 10/7/69	digital MAYNARD, MASSACHUSETTS	
ENG: F AUMANN	DATE: 10/7/69	TITLE: REG & BUS BIT 05	
PROJ ENG: G BUTLER	DATE: 10/7/69		
PROD: P LASKEY	DATE: 10/7/69		
FIRST USED ON: KP15		SIZE CODE: D1 BS1	NUMBER: KP15-0-06
SCALE: 1 OF 1		DIST:	REV: E



EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

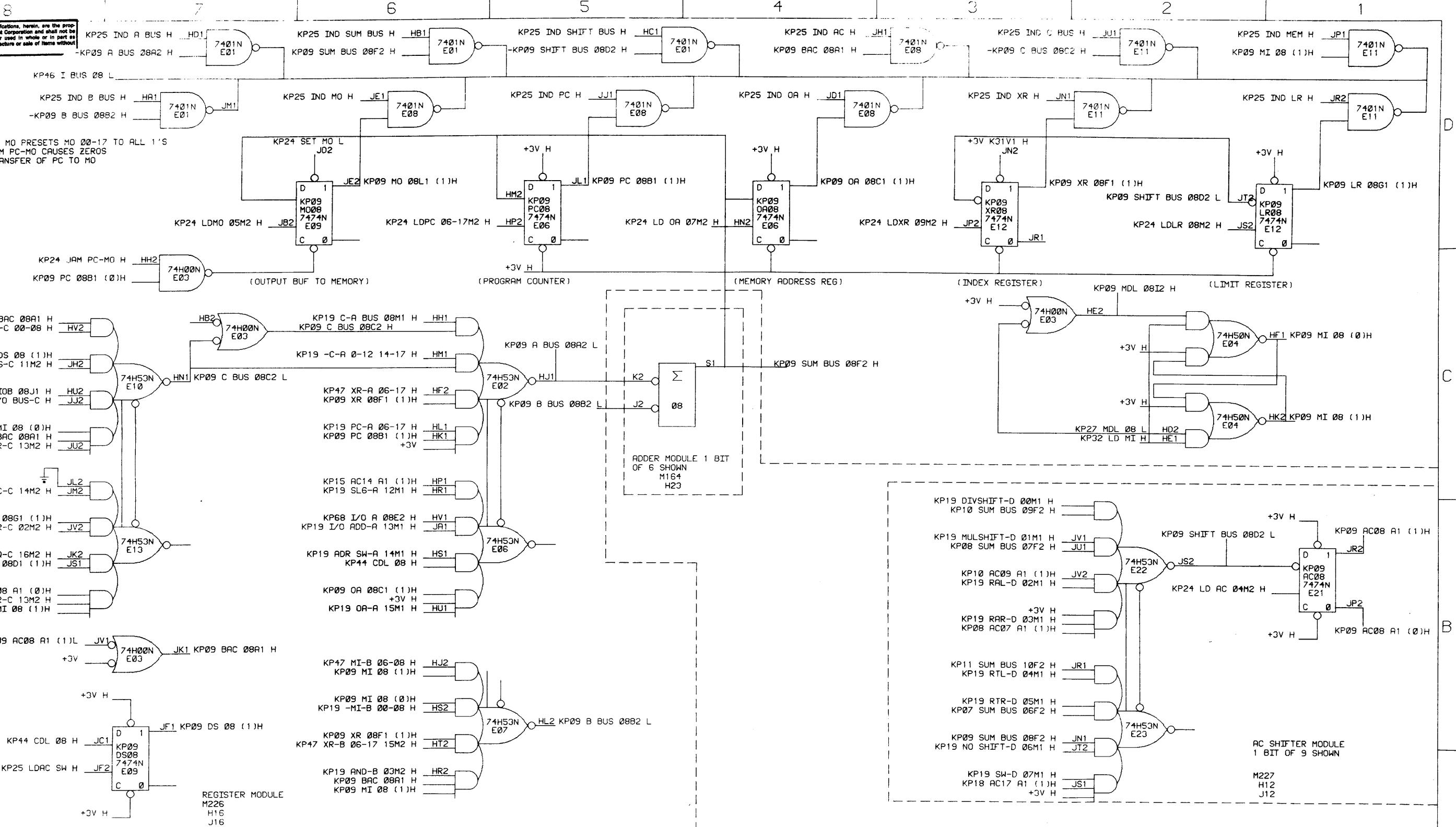
DRN. J. FASSHRAUER	DATE 10/7/69
CHK'D. R. COOK	DATE 10/7/69
ENG. R. AUMANN	DATE 10/7/69
PROJ. ENG. G. BUTLER	DATE 10/7/69
PROD. F. LASKEY	DATE 10/7/69
FIRST USED ON KP15	
SIZE CODE D BS	NUMBER KP15-0-07
SCALE 1	REV. D
DIST.	



REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
	S GOLDSBY 7/15/70	
	F HUMANN 7/22/70	
GH	KP15-00052	C
	S GOLDSBY 3/1/71	
	F ALMANN 3/2/71	
	KP15-00056	D
	7/24/71	

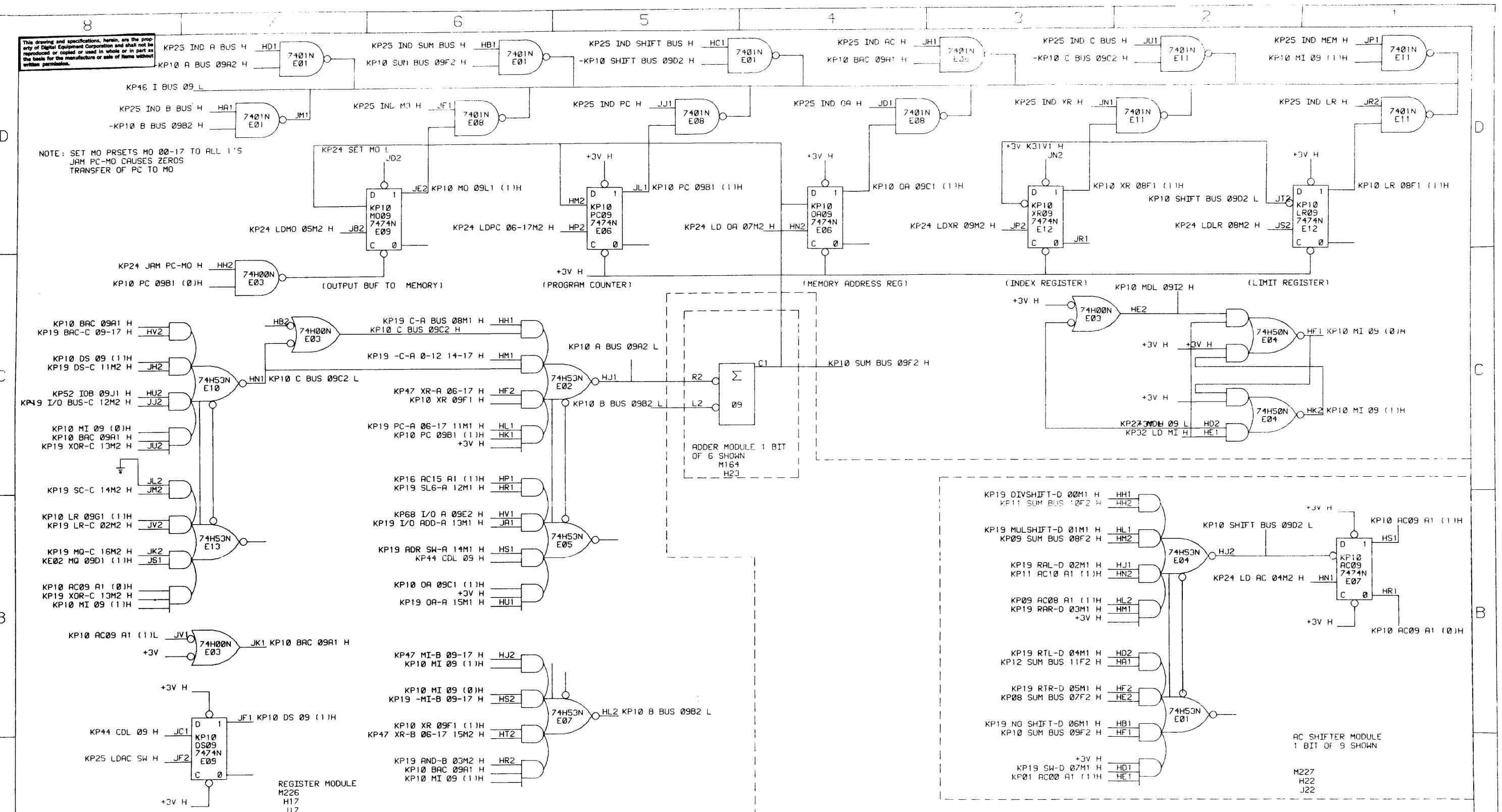
DRN	J. FASSHAUER	DATE	10/7/69	EQUIPMENT
CHK'D	R. COOK	DATE	10/7/69	CORPORATION
ENG	F. ALMANN	DATE	10/7/69	MAYNARD, MASSACHUSETTS
PROJ. ENG	G. BUTLER	DATE	10/7/69	REG&BUS BIT 07
PROD.	F. LASKEY	DATE	10/7/69	
FIRST USED ON	KP15			
SCALE	1	OF	1	REV. D
SHEET	D-BS	KP15-0-06	NUMBER	
			DIST.	

8 7 6 5 4 3 2 1

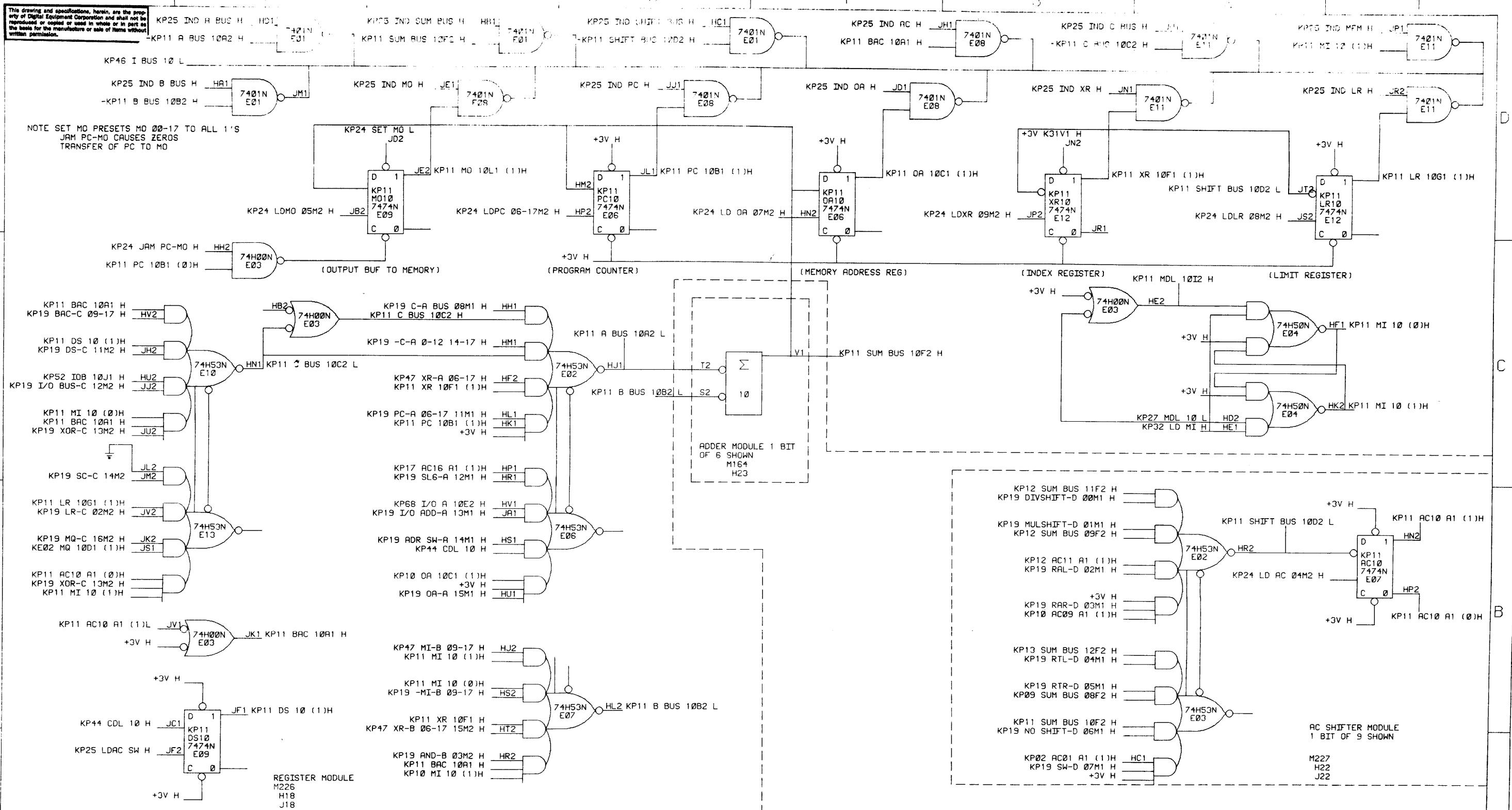


REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
S	GOLDSBY 7/15/70	
F	RUMANN 7/22/70	
GH	KP15-00052	C
S	GOLDSBY 3/1/71	
F	RUMANN 3/2/71	
	KP15-00056	D
	7/15/70	
	7/22/70	

DRN:	J FASSHAUER	DATE:	10/7/69	EQUIPMENT
CHKD:	R COOK	DATE:	10/7/69	CORPORATION
ENG:	F RUMANN	DATE:	10/7/69	MAYNARD, MASSACHUSETTS
PROJ. ENG:	G BUTLER	DATE:	10/7/69	TITLE:
PROD:	P LASKEY	DATE:	10/7/69	REG & BUS BIT 08
FIRST USED ON:	KP15			
SCALE:	D	SIZE CODE:	KP15-0-09	NUMBER:
SHEET:	1	OF:	1	REV.:
				D
		DIST.:		

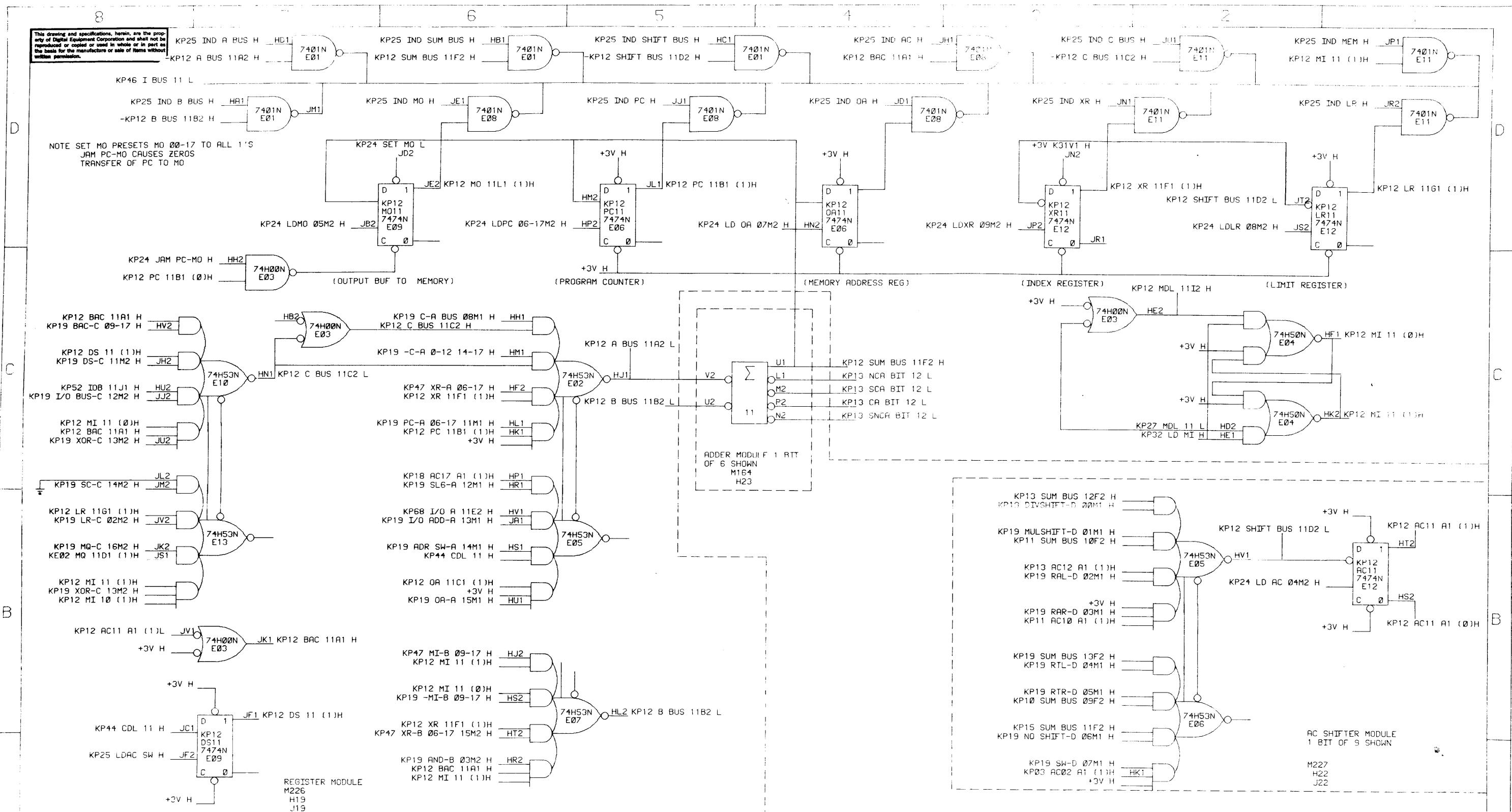


DRN. J FASSHAUER	DATE 10/7/69	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
CHKD. R COOK	DATE 10/7/69	TITLE			
ENG. F AUMANN	DATE 10/7/69	REG & BUS B17 09			
PROJ. ENG. G BUTLER	DATE 10/7/69				
PROD. F LASKEY	DATE 10/7/69				
FIRST USED ON KP15		SIZE	CODE	NUMBER	REV.
SCALE		D	BS	KP15-0-10	C
SHEET 1	OF 1	DIST.			



REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
S	GOLDSBY 7/15/70	
F	RUMANN 7/22/70	
GH	KP15-00052	C
S	GOLDSBY 3/1/71	
F	RUMANN 3/2/71	
	KP15-00056	D
N. Cato	Levins	
10	1417	

DRN.	J. FASSHAUER	DATE	10/7/69	digitaI	EQUIPMENT
CHKD.	R. COOK	DATE	10/7/69	digitaI	CORPORATION
ENG.	F. RUMANN	DATE	10/7/69		MAYNARD, MASSACHUSETTS
PROJ. ENG.	G. BUTLER	DATE	10/7/69		
PROD.	F. LASKEY	DATE	10/7/69		
FIRST USED ON	KP15				
SCALE	D	BS	KP15-0-11		REV. D
SHEET	1	OF	1	DIST.	

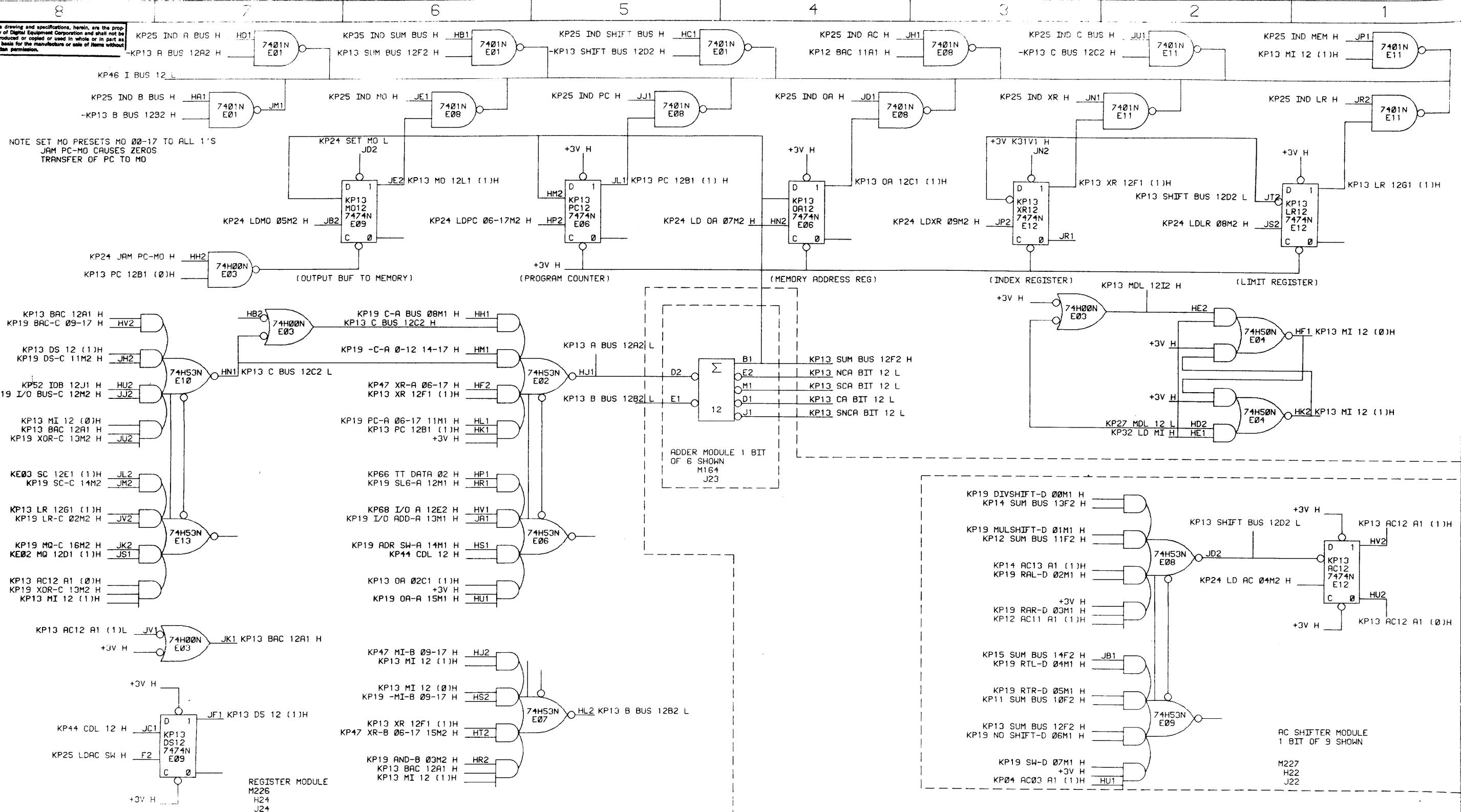


REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
S. GOLDSBY	7/15/79	
F. ALUMMINI	7/23/79	
SH	KP15-222	A2
F. GOLDSBY	7/17/79	
F. ALUMMINI	7/27/79	
	KP15-00038	D

REGISTER MODULE
M226
H19
J19

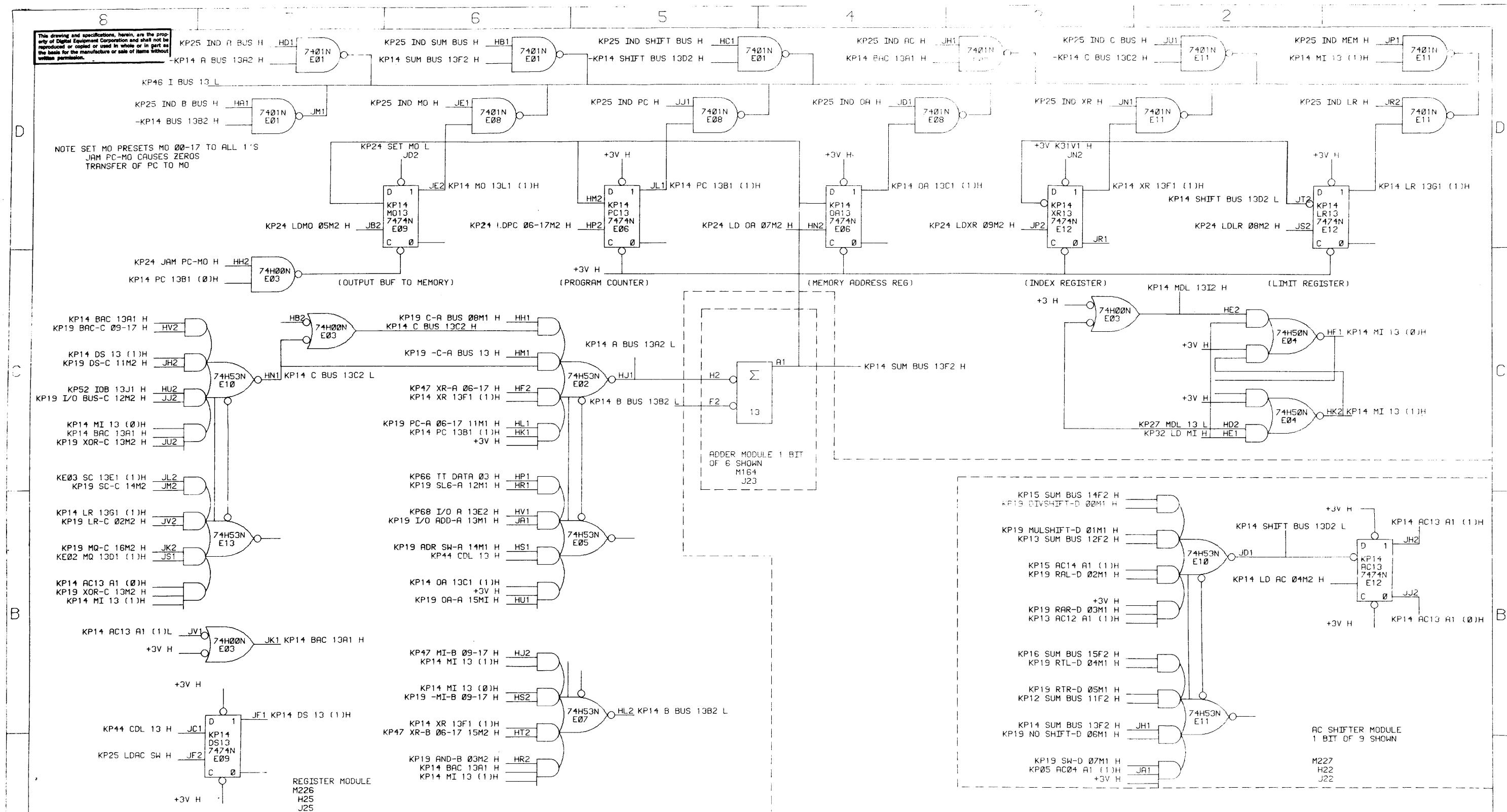
DRN. J. FASSHAUER	DATE 10/7/69	EQUIPMENT CORPORATION
CHKD. R. COOK	DATE 10/7/69	MAYNARD, MASSACHUSETTS
ENG. F. RUMMANN	DATE 10/7/69	TITLE
PROJ. ENG. G. BUTLER	DATE 10/7/69	REG & BUS BIT 11
PROD. F. LASKEY	DATE 10/7/69	
FIRST USED ON KP15		
SCALE SHEET 1 OF 1	SIZE CODE D BS	NUMBER KP15-0-12
		REV. D
	DIST.	

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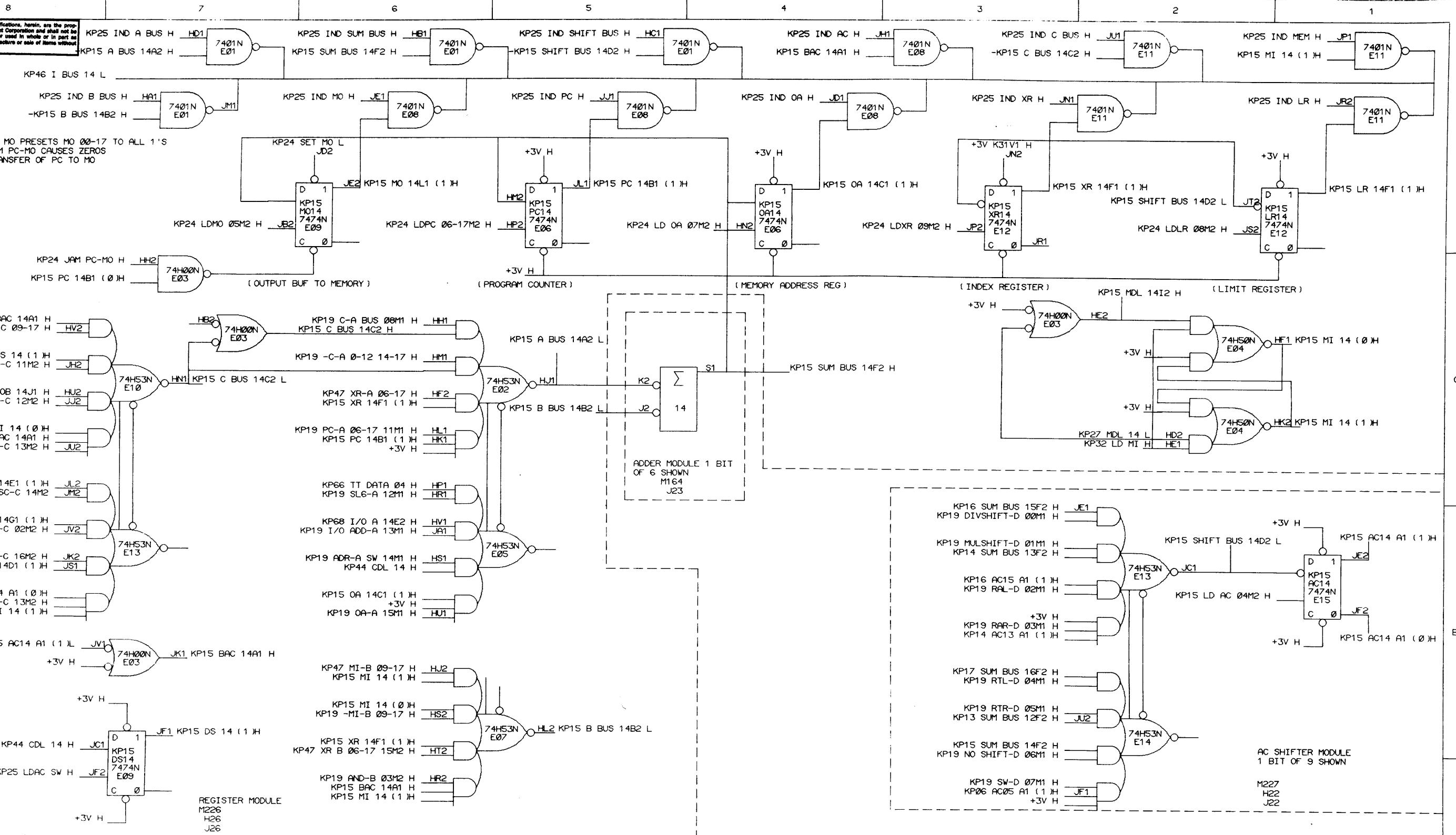
REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
	S GOLDSBY 7/15/70	
F RUMANN 7/22/70		
GH	KP15-00052	C
	S GOLDSBY 3/1/71	
F RUMANN 3/2/71		
	KP15-00056	D
	10/7/70	
	10/22/70	

DRN.	J FASSHAUER	DATE	10/7/69	digital EQUIPMENT CORPORATION
CHK'D.	R COOK	DATE	10/7/69	MAYNARD, MASSACHUSETTS
ENG.	F RUMANN	DATE	10/7/69	TITLE
PROJ. ENG.	G BUTLER	DATE	10/7/69	REG & BUS BIT 12
PROD.	F LASKEY	DATE	10/7/69	
FIRST USED ON	KP15			
SIZE CODE	D 16S	NUMBER	KP15-0-13	REV. D
SCALE				
SHEET 1 OF 1				
DIST.				



REVISIONS	
CHK	CHANGE NO.
LH	KP15-00038 1B
S	GOLDSBY 7/15/70
F	AUMANN 7/22/70
GH	KP15-00052 1C
S	GOLDSBY 3/1/71
F	AUMANN 3/2/71
	KP15-00056 1D
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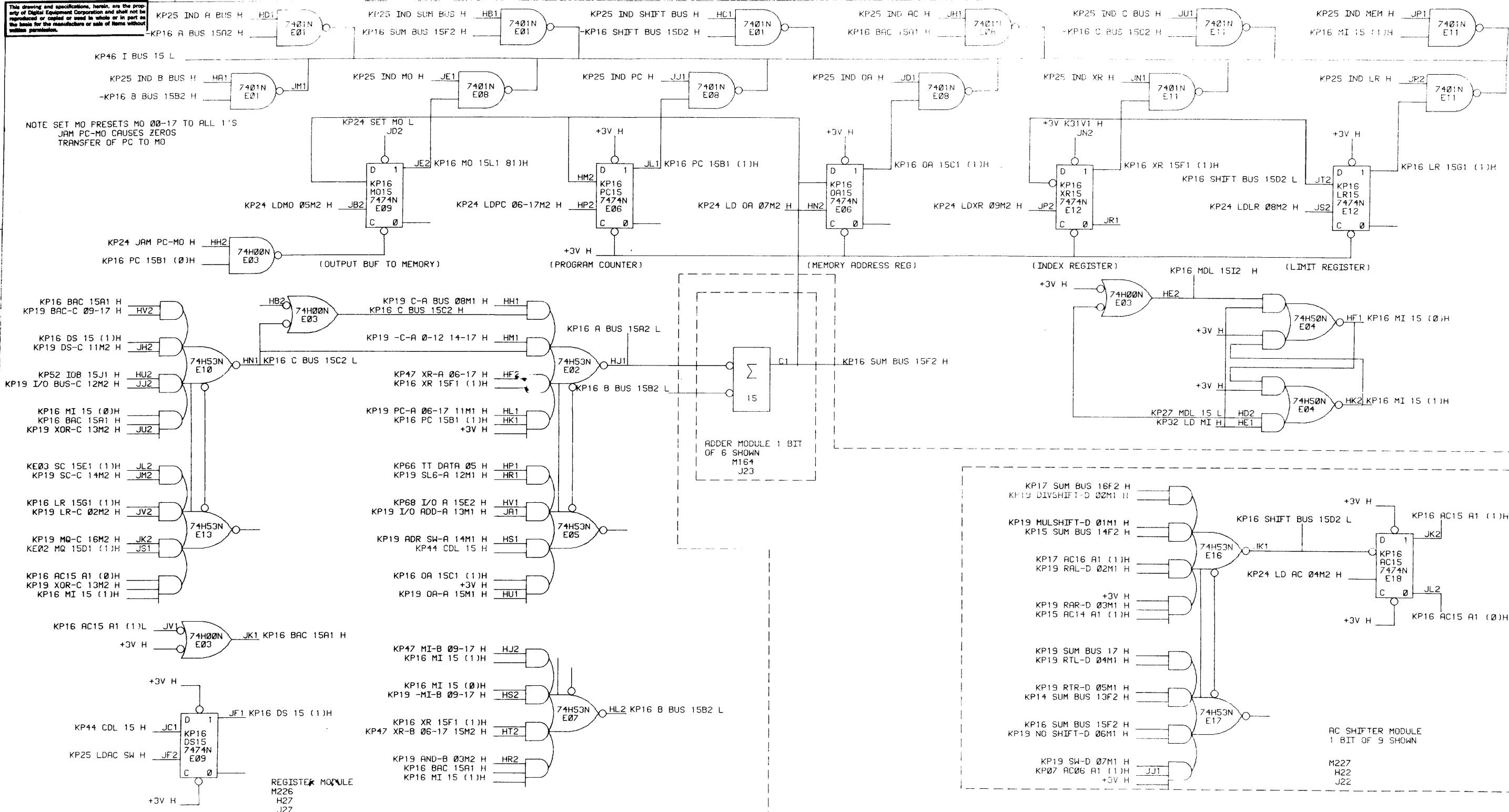
DRN.	DATE	digital EQUIPMENT CORPORATION
J. FASSHAUER	10/7/69	HAYWARD, MASSACHUSETTS
CHK'D.	DATE	
R. COOK	10/7/69	TITLE
ENG.	DATE	
F. AUMANN	10/7/69	
PROJ. ENG.	DATE	
G. BUTLER	10/7/69	
PROD.	DATE	
F. LASKEY	10/7/69	
FIRST USED ON		
KP15	SIZE/CODE	NUMBER
SCALE	D 16S	KP15-0-11
SHEET	1 OF 1	DIST.

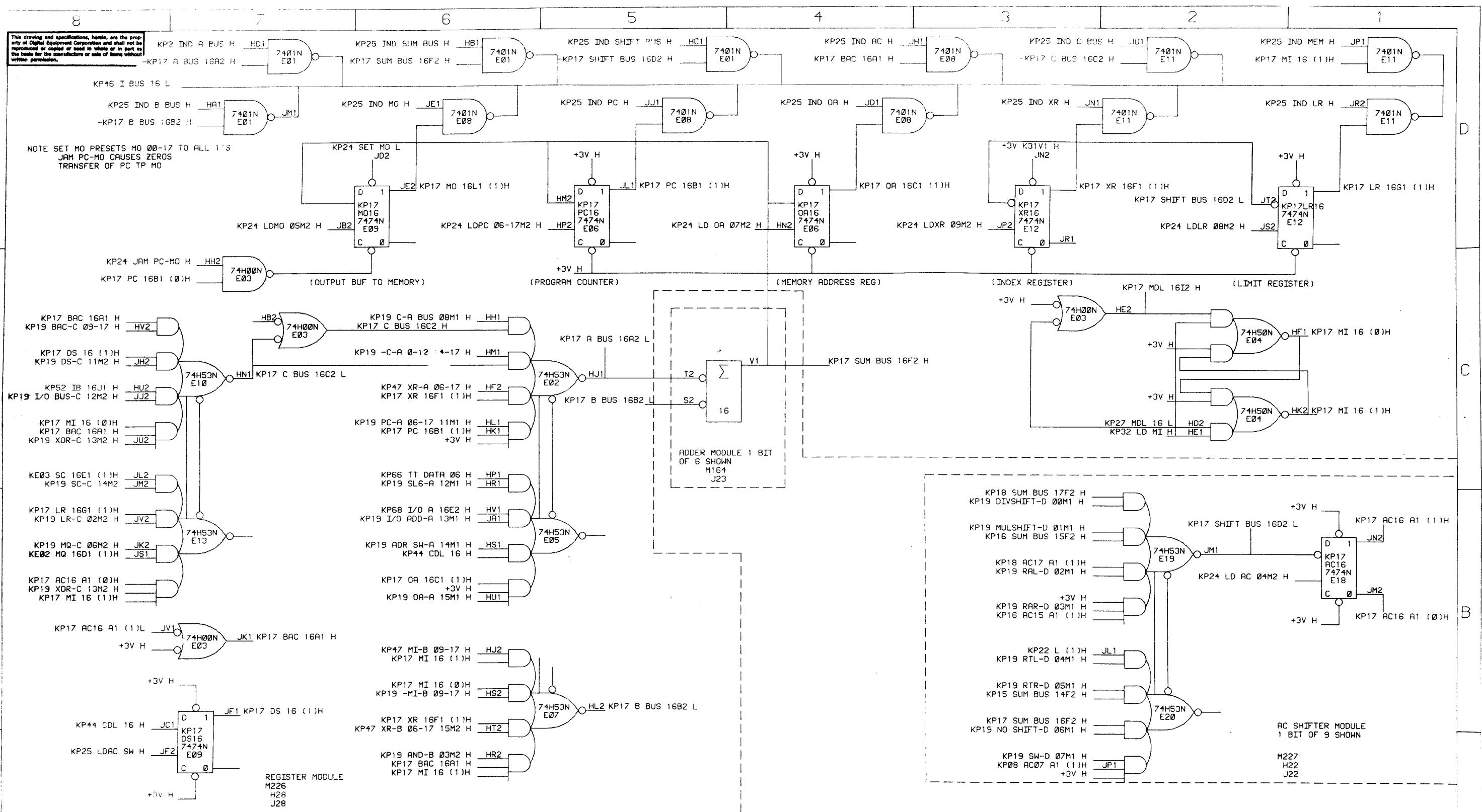


REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-000038	B
	S. GOLDSBY 7/15/70	
	F. AUMANN 7/22/70	
GH	KP15-00052	C
	S. GOLDSBY 3/1/71	
	F. AUMANN 3/2/71	
	KP15-00056	D
<i>7 Revs in 10 days</i>		
TLX		

DRN. L. LEASCHAUER	DATE 10/7/69	EQUIPMENT CORPORATION
CHKD. B. COOK	DATE 10/7/69	MAYNARD, MASSACHUSETTS
ENG. B. COOK	DATE 10/7/69	TITLE
PROJ. ENG. F. AUMANN	DATE 10/7/69	REG & BUS BIT 14
PROD. G. BUTLER	DATE 10/7/69	
FIRST USED ON		
KP15	SIZE CODE D BS	NUMBER KP15-0-15
SCALE	REV. D	
SHEET 1 OF 1	DIST.	

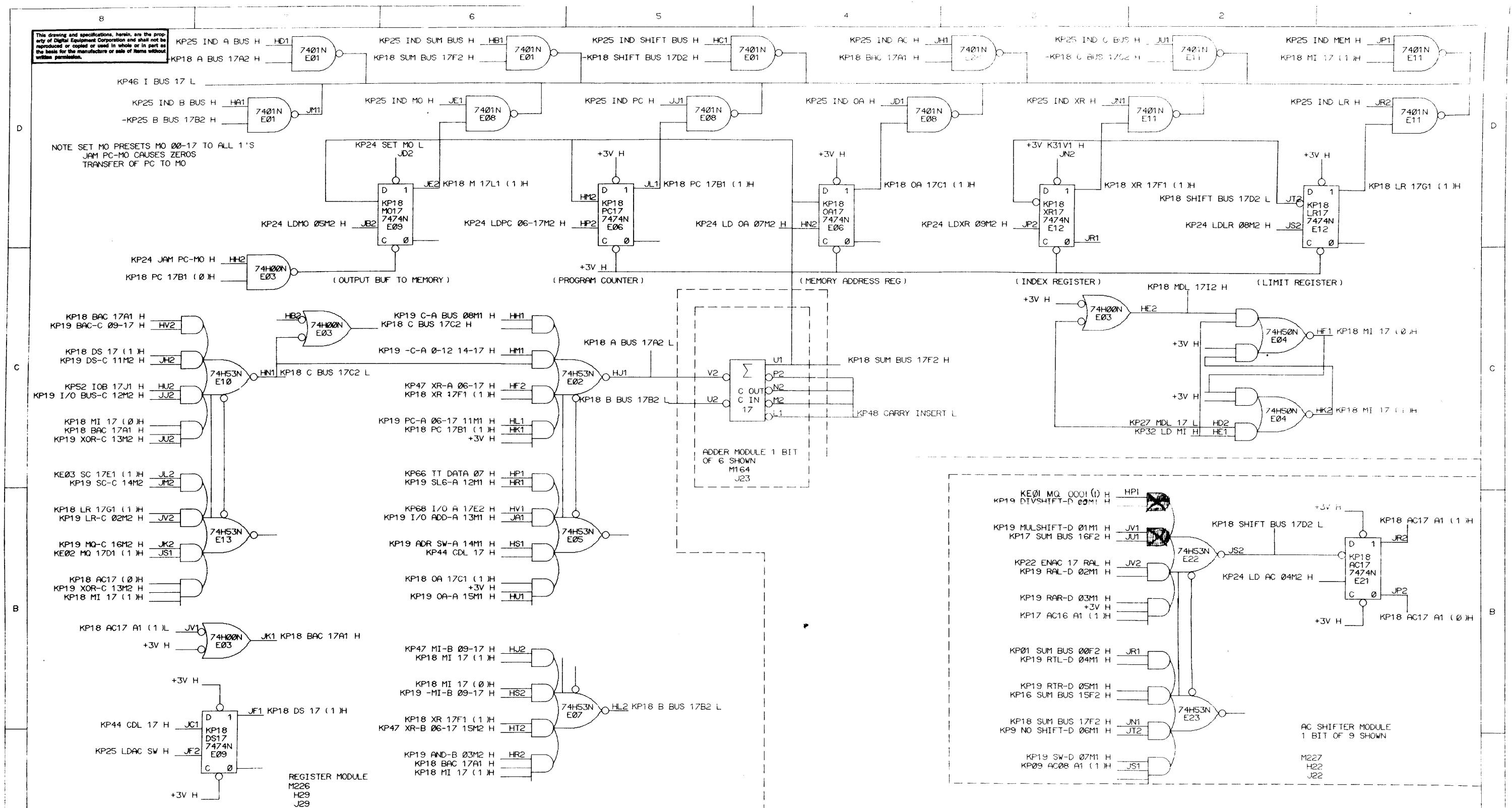
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REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-20038	B
	S GOLDSBY 7/15/70	
	F RUMANN 7/22/70	
SH	KP15-20052	C
	S GOLDSBY 3/1/71	
	F RUMANN 3/2/71	
	KP15-20056	C

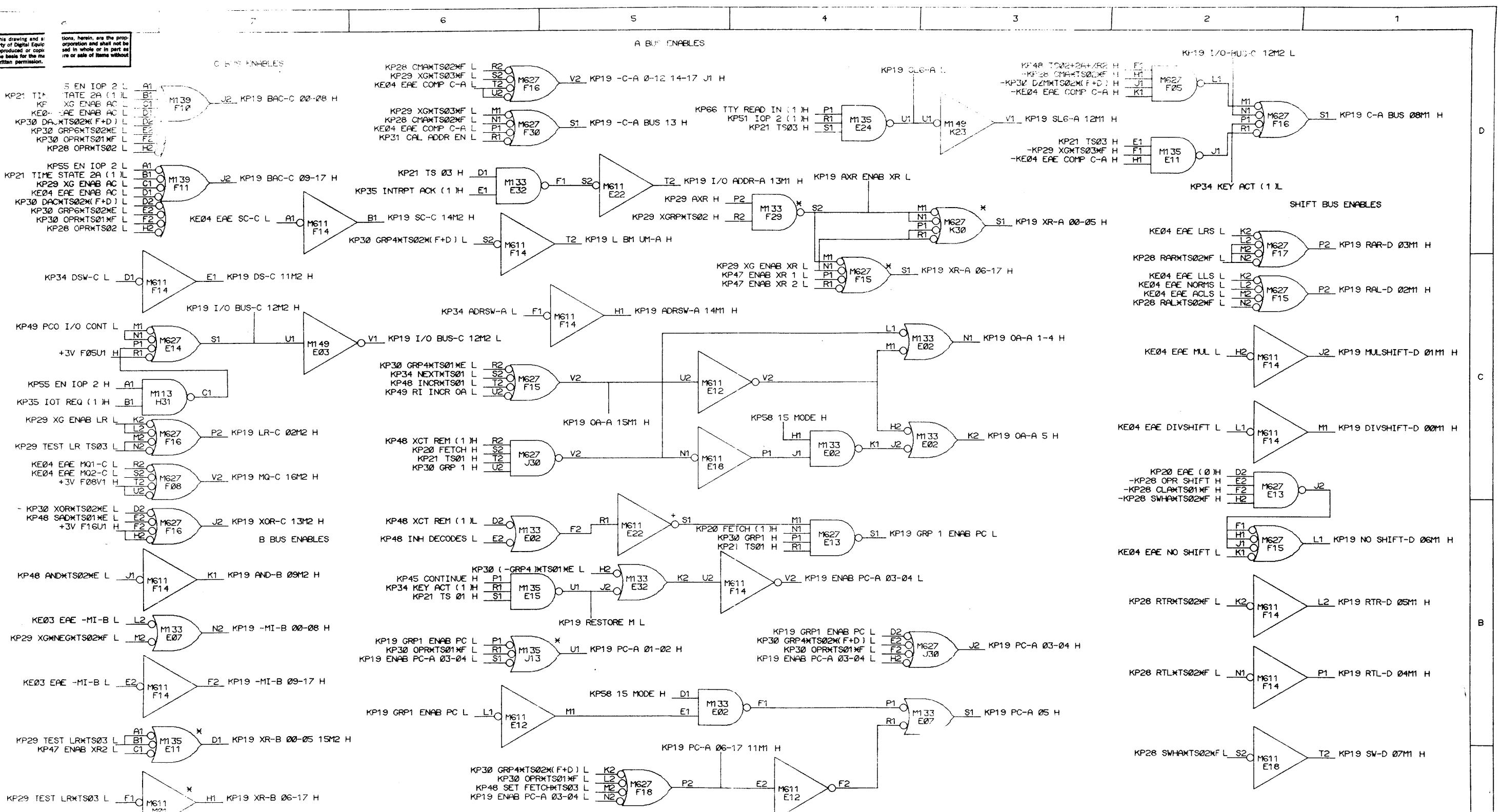
DRN	J FASSHAUER	DATE	10/7/69	EQUIPMENT
CHK	R COOK	DATE	10/7/69	CORPORATION
ENG	F HUMANN	DATE	10/7/69	MAYNARD, MASSACHUSETTS
PROJ ENG	G BUTLER	DATE	10/7/69	TITLE
PROD	F LASKEY	DATE	10/7/69	REG & BUS BIT 16
FIRST USED ON	KF15			
SCALE	1:1	CODE	KP15-0-17	NUMBER
SHEET	1	OF	1	REV.



REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	C	Z5	KH15	F
S GOLDSBY	7/15/70				
F AUMANN	7/22/70				
GH	KP15-00052	D	F, L, L1		
S GOLDSBY	3/1/71				
F AUMANN	3/27/71				
	KP15-00056	E			
	7/22/71				

DRN.	DATE	digital EQUIPMENT CORPORATION
CHK	DATE	MAYNARD, MASSACHUSETTS
ENG	DATE	TITLE
PROJ. ENG.	DATE	REG & BUS B11 17
PROD.	DATE	F
FIRST USED ON	DATE	
KP15	7/15/70	
SIZE	CODE	NUMBER
D	BS	KP15-0-18
SCALE		REV.
SHEET	OF	
1	1	F
DIST		

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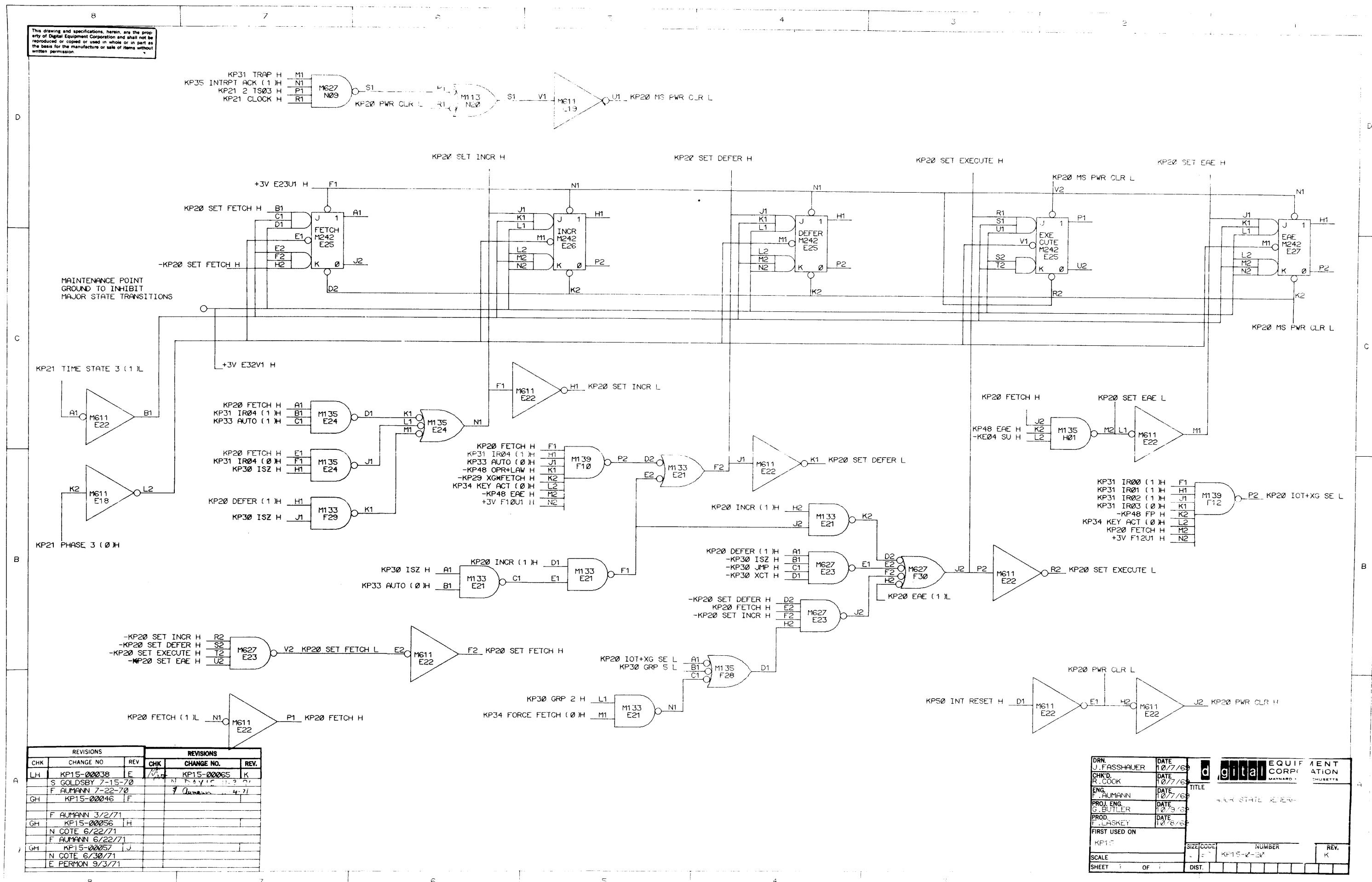


REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	H	GH	KP15-00056	M
S GOLDSBY 7/15/70	N COTE 6/30/71		F HUMANN 7/22/70	F HUMANN 6/30/71	
F HUMANN 7/22/70	KP15-00045	J	KP15-00058	N	
S GOLDSBY 10/9/70	KP15-CG-2	P			
F HUMANN 10/13/70	KP15-00050	P			
S GOLDSBY 2/9/71	F DOLL				
F HUMANN 2/17/71	KP15-00052	J			
F HUMANN 2/17/71	KP15-00052	J			
F HUMANN 2/17/71	KP15-00052	J			

*NOTE: ECO KP15-#52 IS OPTIONAL IN OLDER MACHINES. INDICATED GATES ARE REPLACED BY BOXED CIRCUITRY ON KP47. REQUIRED FOR GREATER THAN 32K ADDRESSING.

+ IF ECO KP15-#52 IS NOT INSTALLED, INVERTER IS M133 E02 OUTPUT N2.

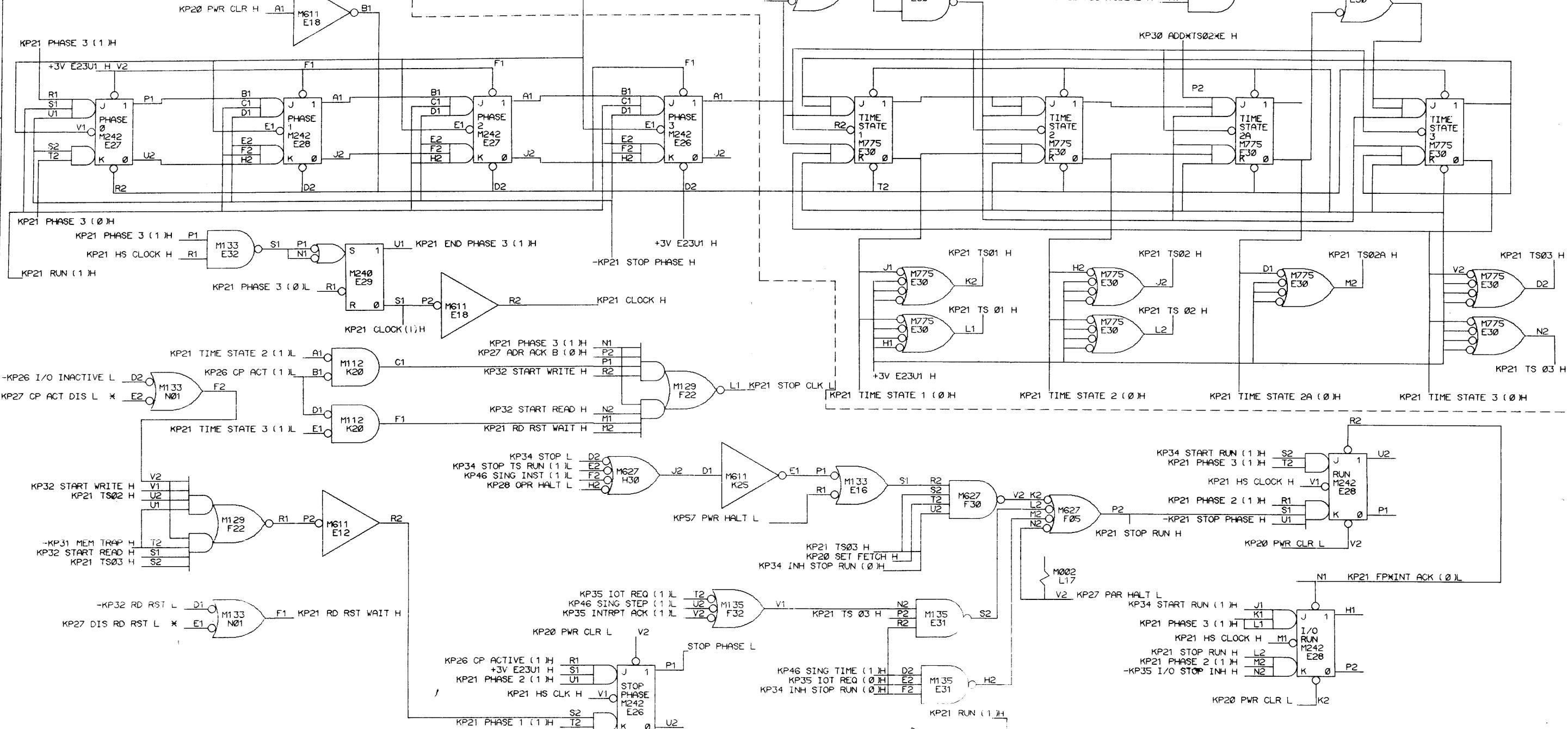
DRN. S. GOLDSBY	DATE 10/15/69	EQUIPMENT CORPORATION
CHK'D. L. HOHOS	DATE 10/15/69	MAYNARD, MASSACHUSETTS
ENG. F. ALMANN	DATE 10/7/69	digital
PROJ. ENG. G. BUTLER	DATE 10/7/69	TITLE MAJOR BUS CONTROL LOGIC
PROD. F. LASKEY	DATE 10/7/69	
FIRST USED ON		
KP15	SIZE CODE D. BS	NUMBER KP15-0-19
SCALE	REV. P.	
SHEET 1 OF 1	DIST.	



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ecifications, herein, are the prop
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ufacture or sale of items without
written permission.

NOTE: TYPICAL TIME 66NS.

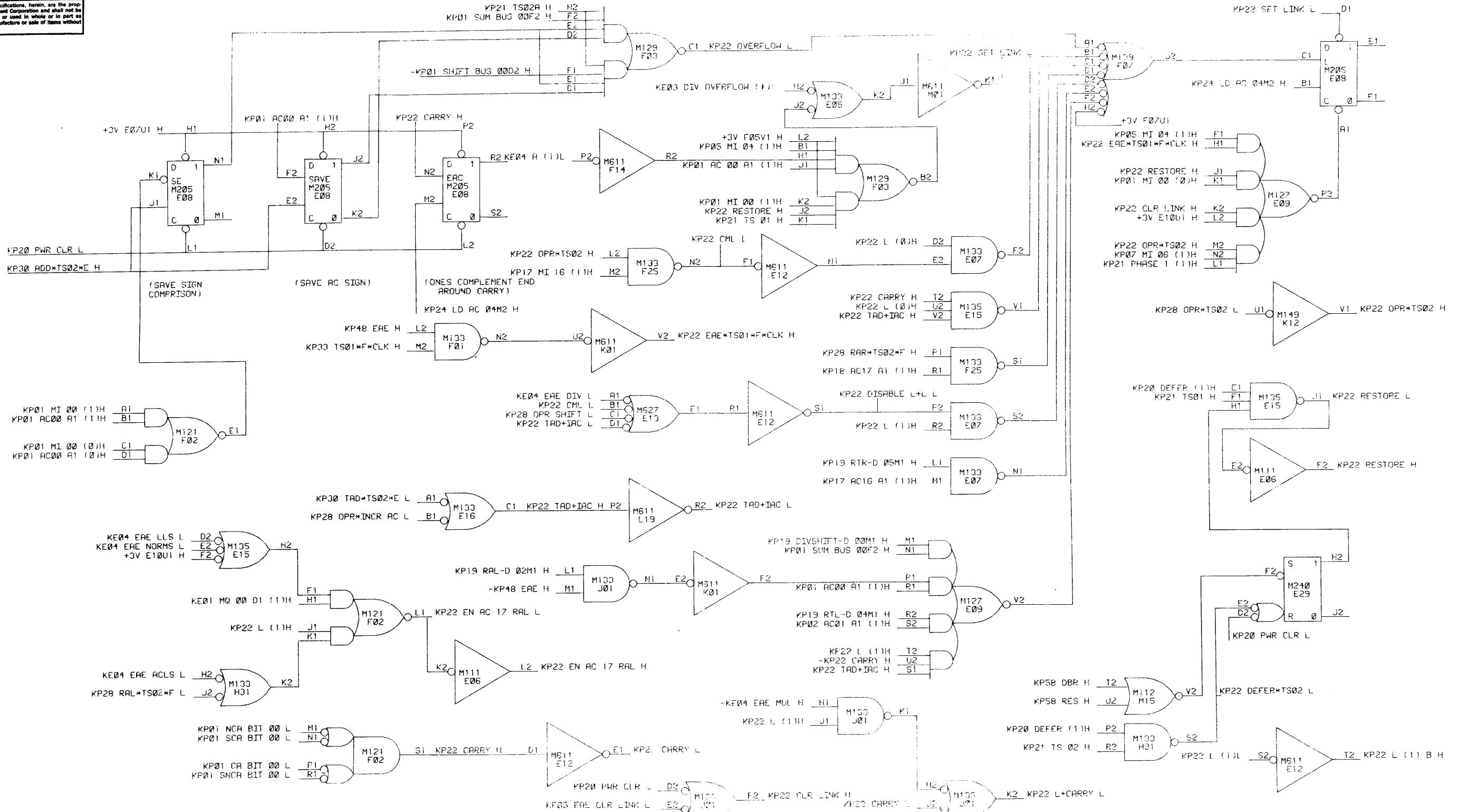
NOTE: <
OUT THE FP15 OPTION THE
LOWING SIGNALS ARE CONNECTED:
+3V
27 CP ACT DIS L NO FP15
CONNECTED TO +3V N01U1
27 DIS RD RST L NO FP15
CONNECTED TO +3V N01V1.



REVISIONS		REVISIONS		REVISIONS	
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	K	GH	KP15-00056	P
S. GOLDSBY	7-15-70		N. COTE	6/22/71	
F. AUMANN	7-22-70		F. AUMANN	6/22/71	
SH	KP15-00046	L	GH	KP15-00057	R
K. WALSH	12/18/72		N. COTE	6/30/71	
F. AUMANN	12/18/72		F. AUMANN	6/30/71	
SH	KP15-00048	M	GH	KP15-00058	S
N. LEGERE	1/12/71		N. COTE	7/6/71	
F. AUMANN	1/12/71		F. AUMANN	7/6/71	
SH	KP15-00254	N	GH	KP15-00059	T
S. GOLDSBY	2/3/71		N. COTE	2/1/71	
F. AUMANN	2/3/71		F. AUMANN	2/1/71	

DRN. M. SCHURMAN	DATE 11-7-69	digital EQUIPMENT
CHKD. N. RHEAULT	DATE 11-7-69	CORPORATION MAYNARD, MASSACHUSETTS
ENG. F. AUMANN	DATE 11-7-69	TITLE TIME STATE GEN WITH START STOP CONTROL
PROJ. ENG. G. BUTLER	DATE 11-7-69	
PROD. F. LASKEY	DATE 11-7-69	
FIRST USED ON KP15		
SIZE CODE D BS	NUMBER KP15-0-21	REV. W
SCALE SHEET 1 OF 1		DIST.

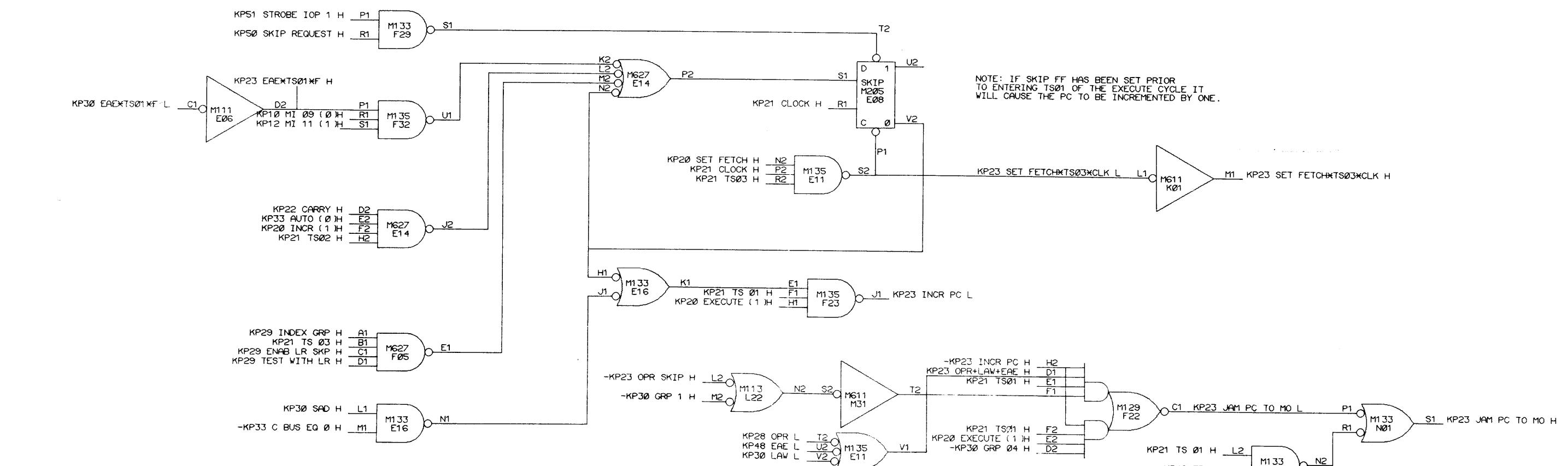
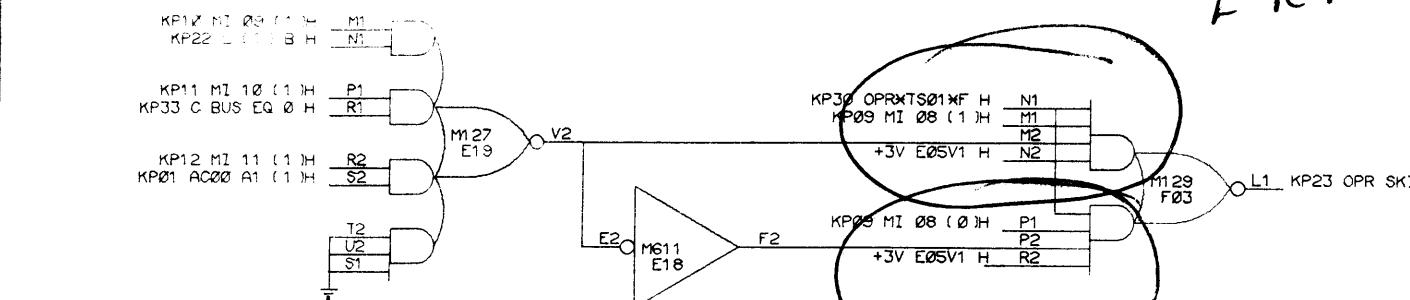
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REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
L4	KF15-00038	E	F	4	
	S. GOLDBY 7-15-70				
	F. HUMPHREY 7-22-70				
P4H	KF15-00045	E	F	DOLL	
	K. WILSON 12/1/72				
	F. AUBREY 12/18/72				
	KF15-00056	H			

DRN. J.FASSHUER	DATE 10/7/69	EQUIPMENT	
CHKD. R.COOK	DATE 10/7/69	digital	
ENG. F.AUHMANN	DATE 10/7/69	EQUIPMENT CORPORATION	
PROJ. ENG. G.BUTLER	DATE 10/9/69	MAYNARD MASSACHUSETTS	
PROD. F.LASKY	DATE 12/8/69	TITLE LINK-LINK CONTROL	
FIRST USED ON			
KF15		SIZE CODE	NUMBER
SCALE		OF	REV.
SHEET		DIST.	K

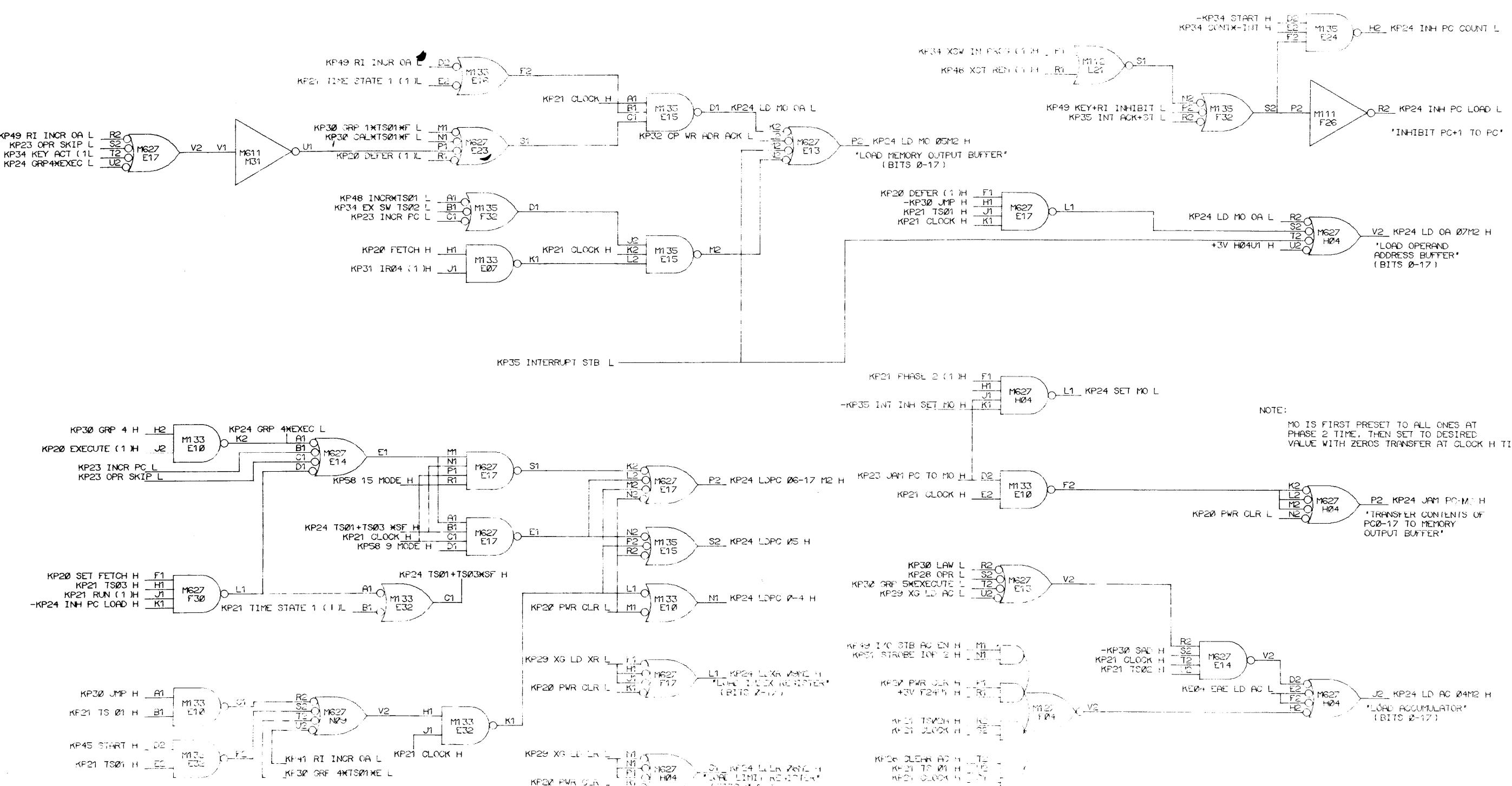
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REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	D		KP15-00065	J
S GOLDSBY	7-15-70				
F AUMANN	7-22-70				
G.H.	KP15-00046	E			
K WALSH	12/18/70				
F AUMANN	12/18/70				
JH	KP15-00056	F			
I CCTE	6/22/71				
F AUMANN	6/22/71				
JK	KP15-00057	H			
N GATE	2/22/71				
LE PERKIN	9/2/71				

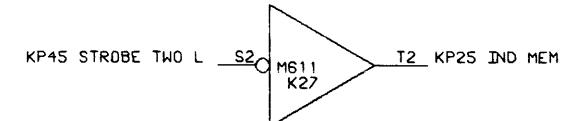
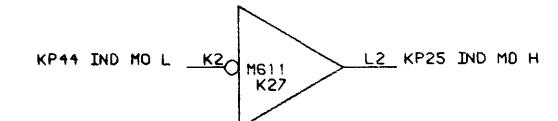
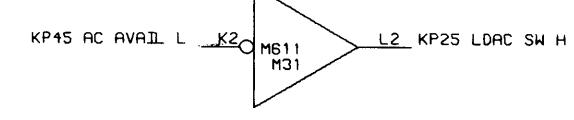
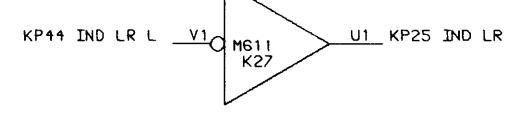
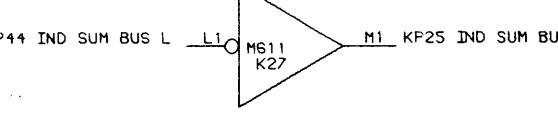
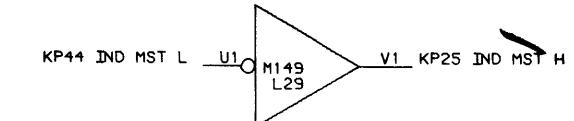
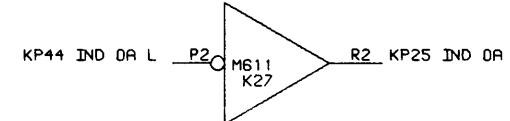
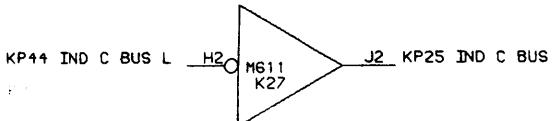
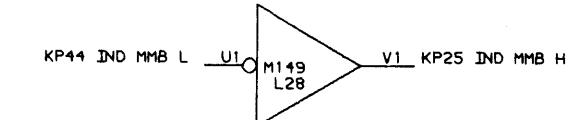
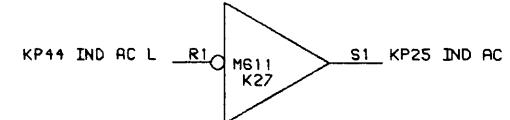
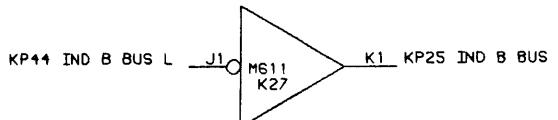
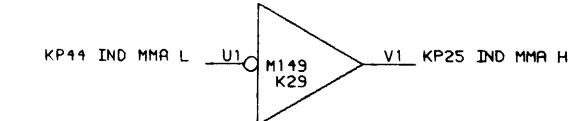
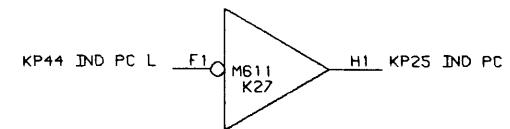
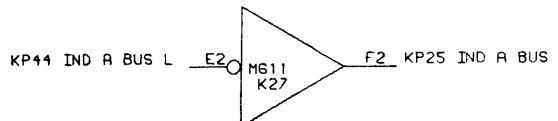
DRN	J. FASSHAUER	DATE	10/7/69	digital	EQUIPMENT CORPORATION
CHKD	R. COOK	DATE	10/7/69		MAYNARD, MASSACHUSETTS
ENG	F. AUMANN	DATE	10/7/69		TITLE
PROJ. ENG	G. BUTLER	DATE	10/9/69		
PROD	F. LASKEY	DATE	10/8/69		
FIRST USED ON	KP15				
SCALE	1	OF	1		
SHEET				NUMBER	
				REV.	
				D	BS
				KP15-0-23	J
				DIST.	

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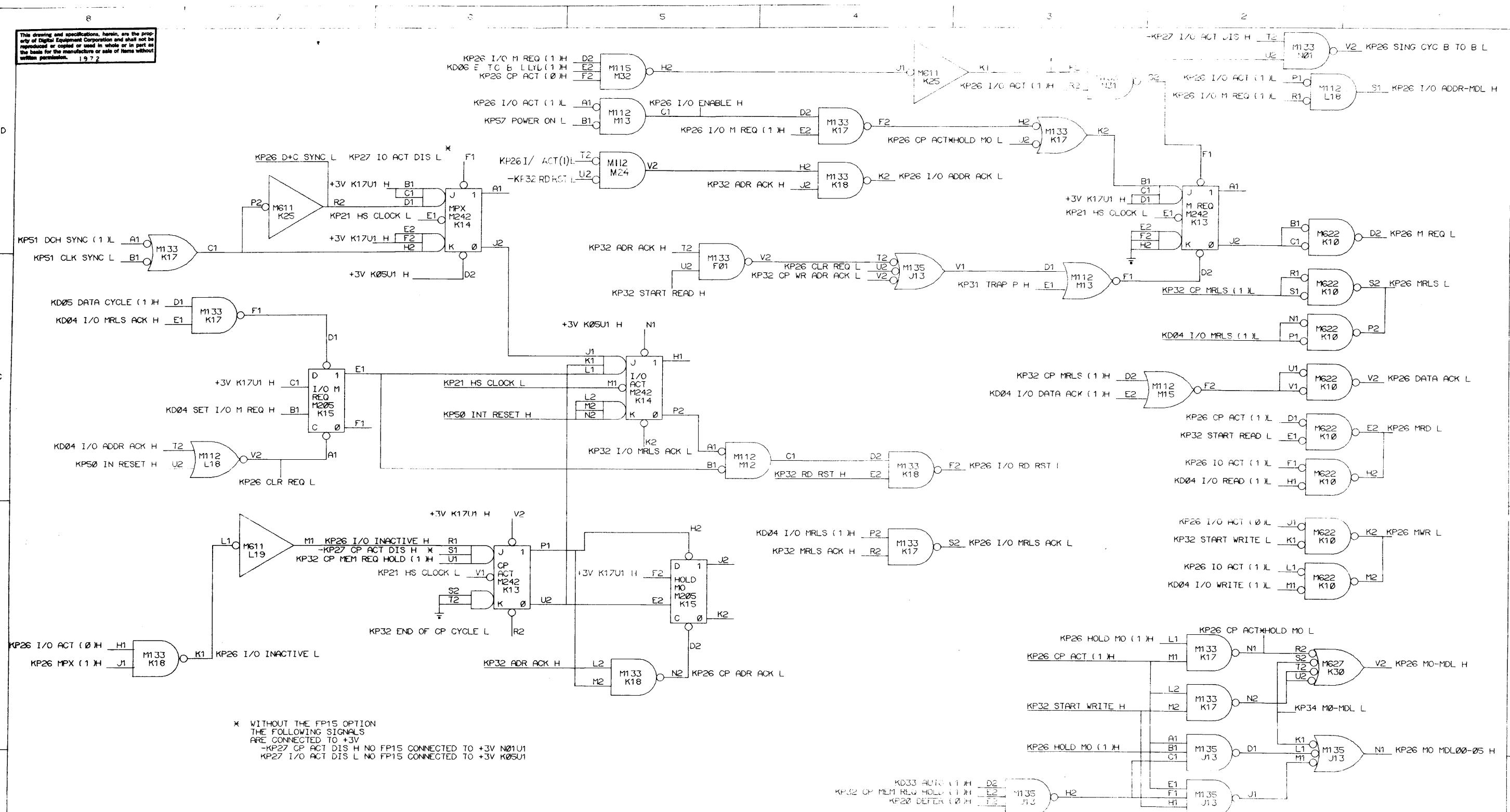
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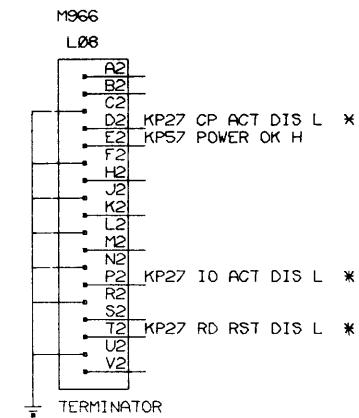
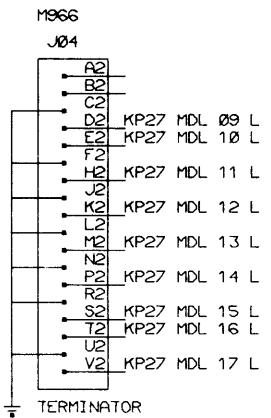
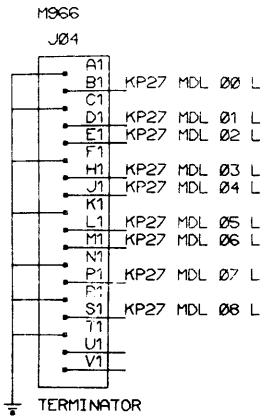
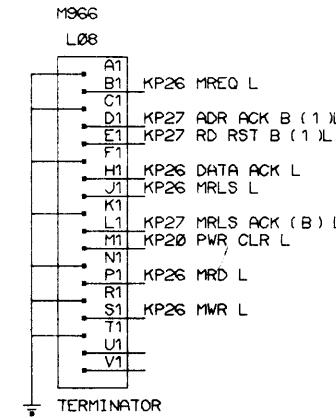
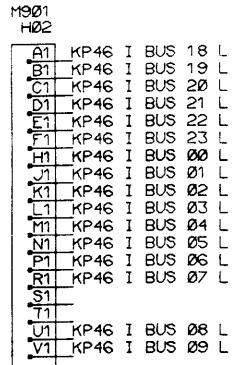
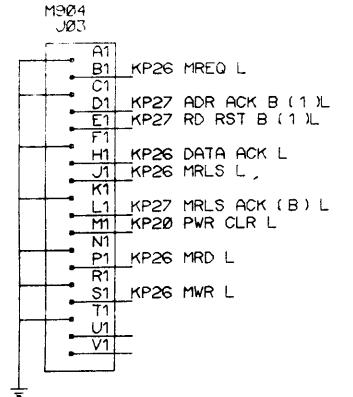
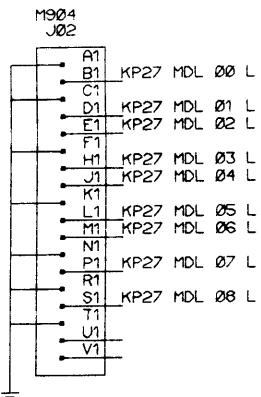
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CHK	CHANGE NO.	REV.
ZH	P1 00038	A

DRN.	DATE
Sch. 3, Item	7/15/70
CHKD:	DATE
Joe Hoban	7/15/70
ENG:	DATE
F. AUMANN	7/15/70
PROJ. ENG:	DATE
F. AUMANN	7/15/70
PROD:	DATE
F. LASHEY	7/15/70
FIRST USED ON	
KP15	
SIZE CODE	NUMBER
D BS	KP15-0-25
SCALE	REV.
SHEET 1 OF 1	A
DIST.	

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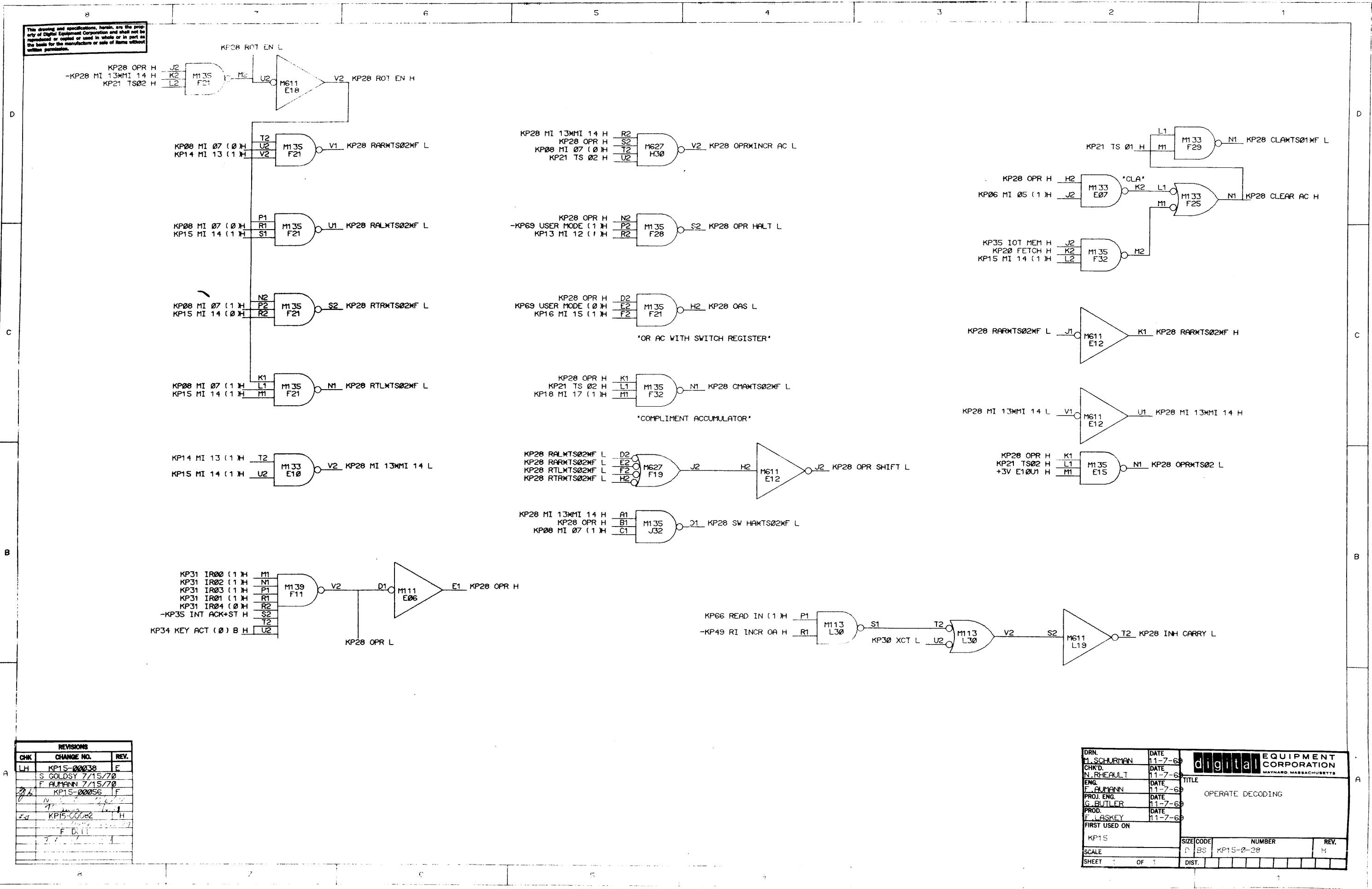


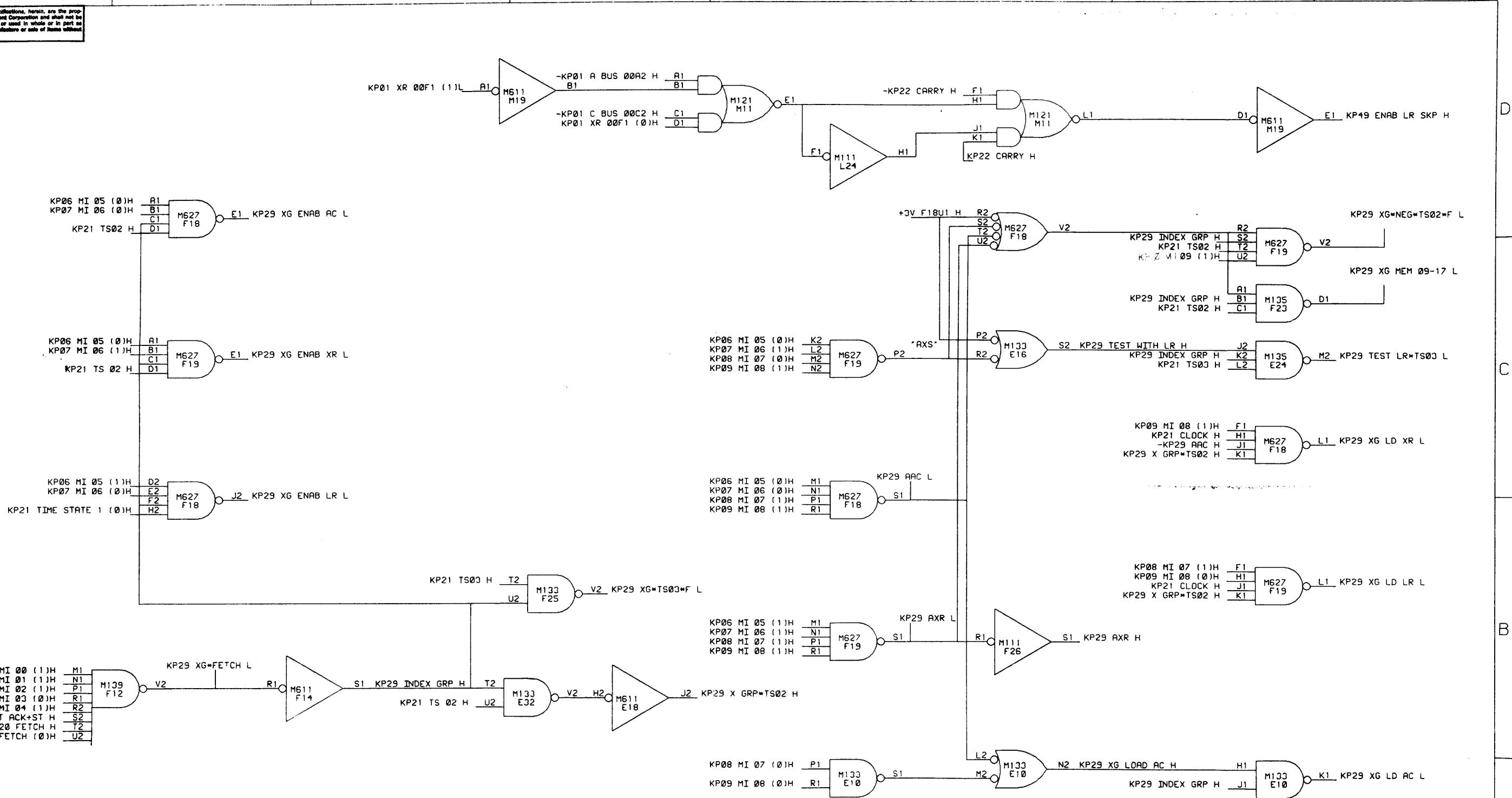
TERMINATOR

* THESE SIGNALS WILL ONLY
BE PRESENT ON THE CABLE
WHEN A FPIIS IS INSTALLED
IN THE SYSTEM

REVISIONS		REVISIONS			
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LH	KP15-00038	C	GH	KP15-00057	H
S. GOLDSBY 7/15/70			N. COTE 6/30/71		
F. ALUMANN 7/20/70			F. ALUMANN 7/2/71		
GH	KP15-00044	D	GH	KP15-00059	J
S. GOLDSBY 10-9-70					
F. ALUMANN 10-16-70			9. ALUMANN 7/1/71		
GH	KP15-00046	E	GH	KP15-00071	I
K. WALSH 12/11/70					
F. ALUMANN 12/11/70					
GH	KP15-00055	F	GH	KP15-00072	J
K. WALSH 12/11/70					
F. ALUMANN 12/11/70					

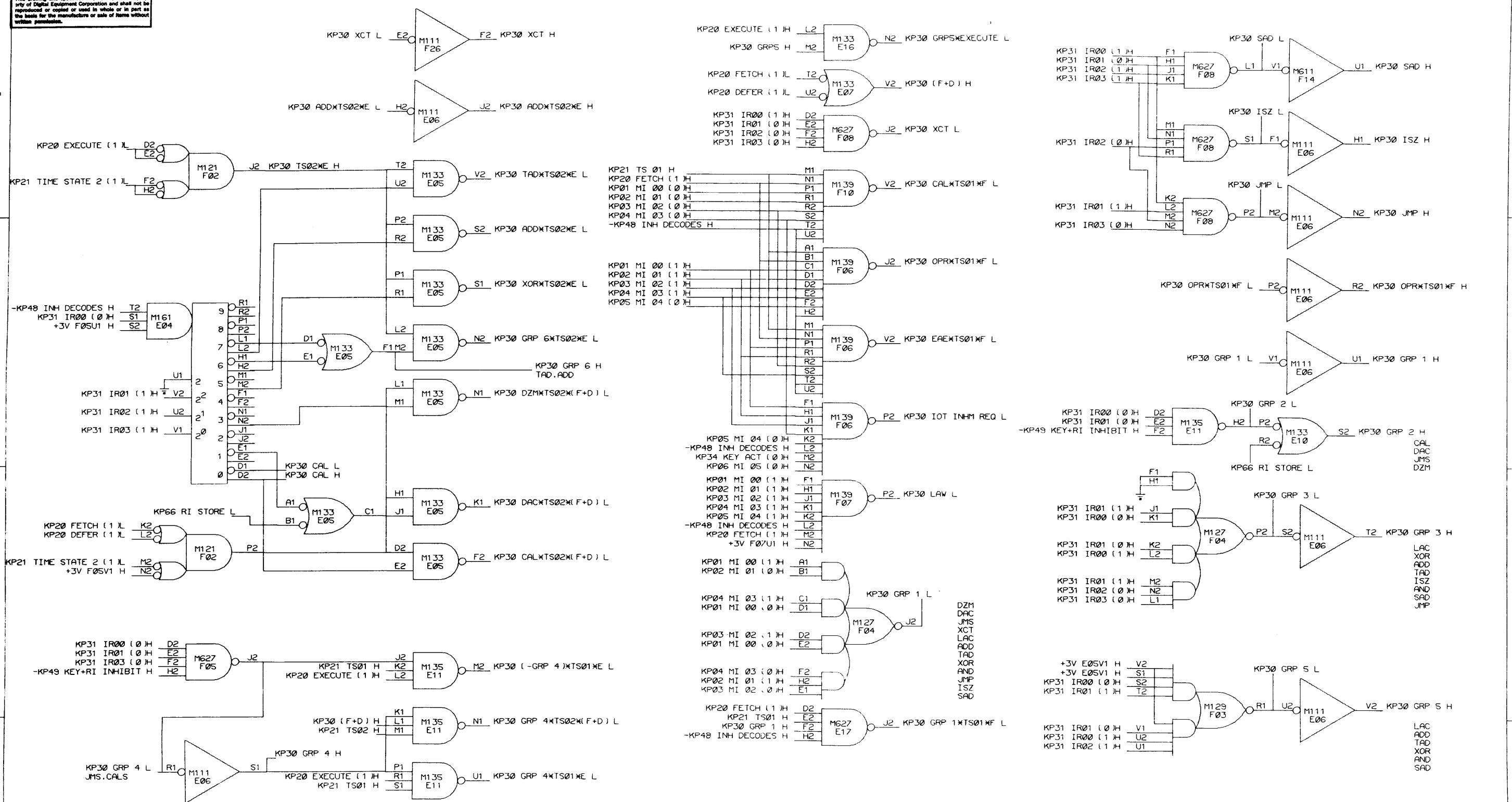
DRN.	DATE	EQUIPMENT CORPORATION	
CHK'D.	DATE	MAYNARD, MASSACHUSETTS	
N. RHEAULT	11-7-69	TITLE	
ENG.	11-7-69		
F. ALUMANN	11-7-69		
PROJ. ENG.	11-7-69		
G. BUTLER	11-7-69		
PROD.	11-7-69		
F. LASKEY	11-7-69		
FIRST USED ON			
KP15		SIZE	CODE
SCALE	D BS	NUMBER	REV.
SHEET 1 OF 1		DIST.	



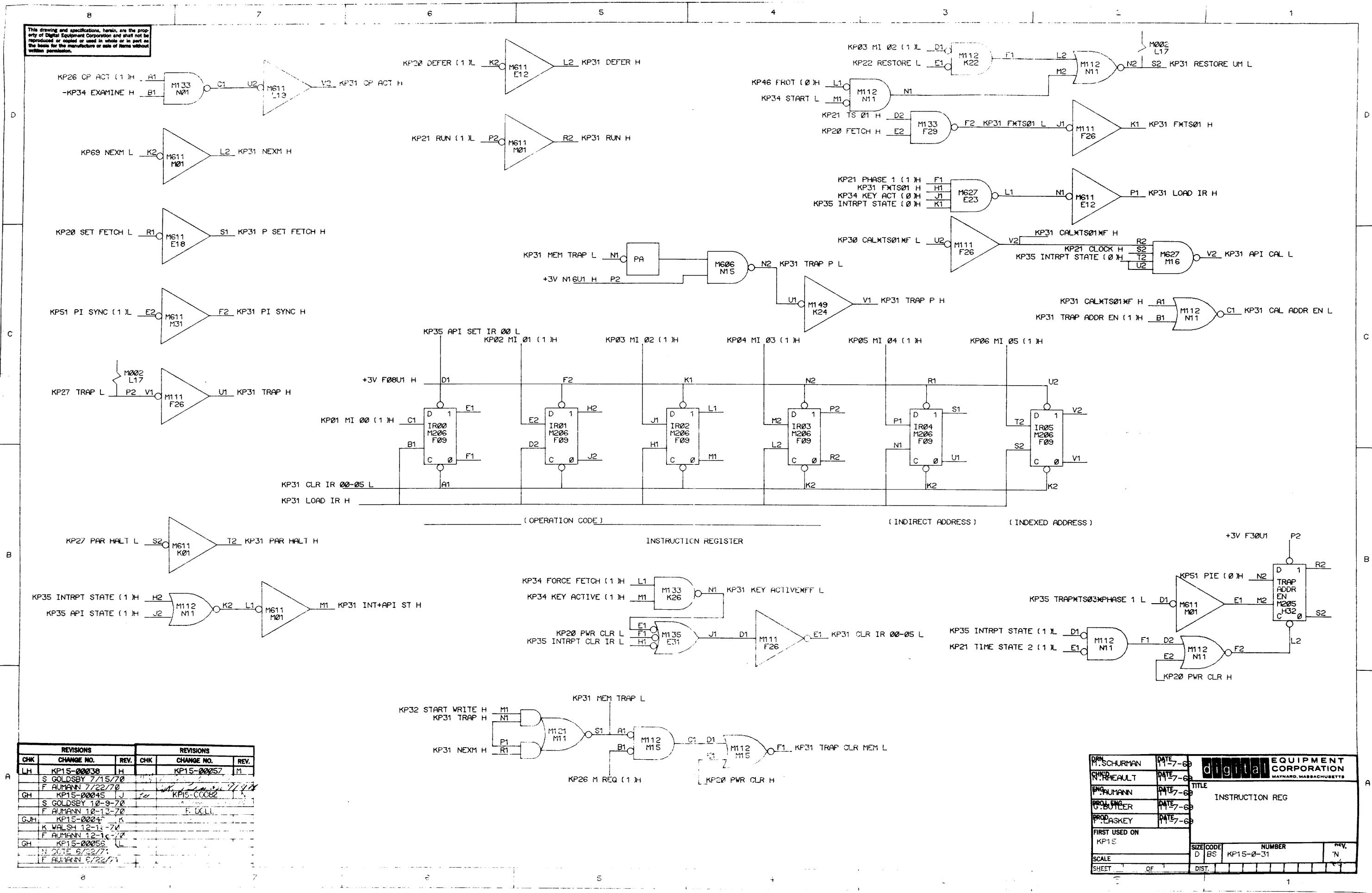


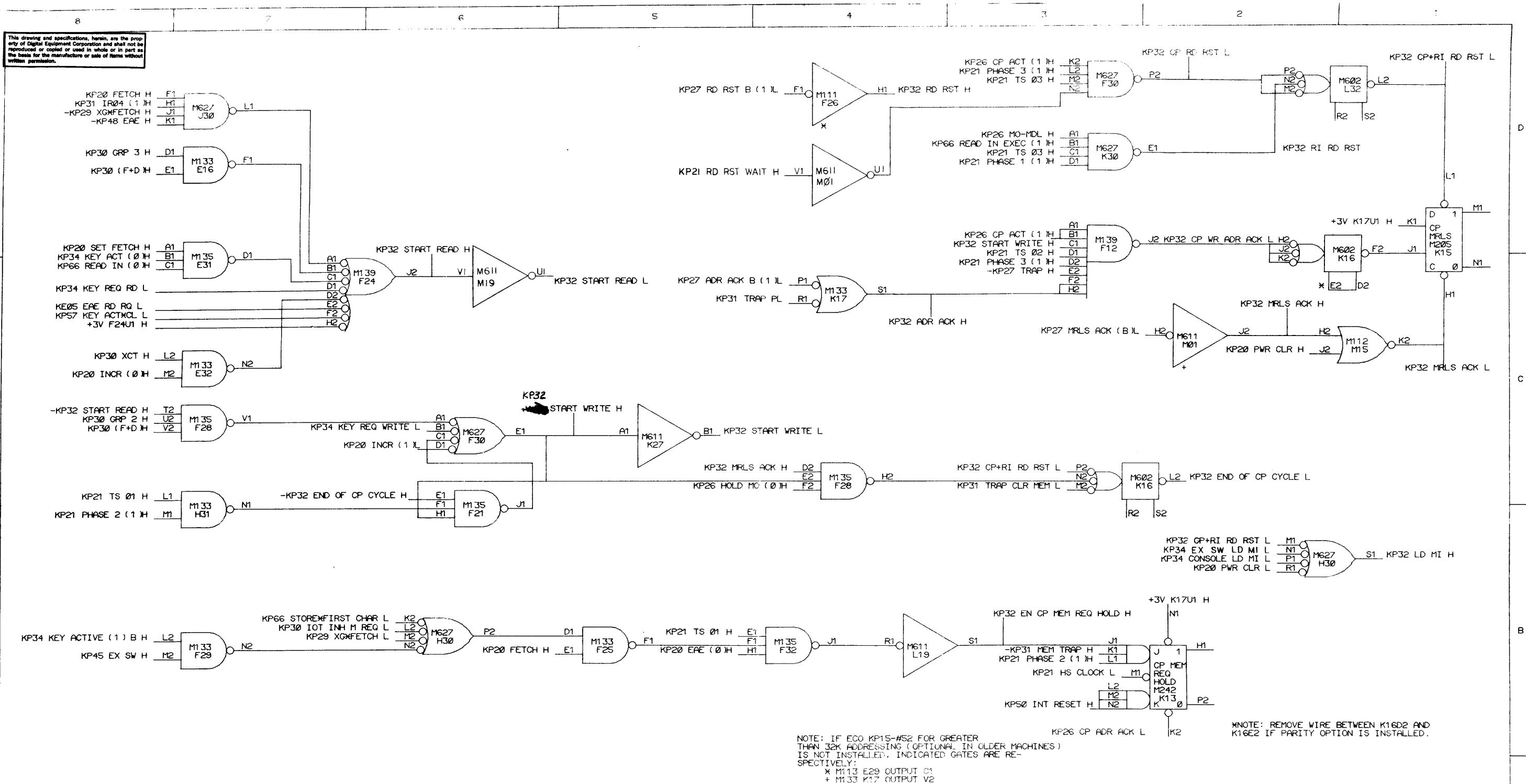
DRN. M.SCHURMAN	DATE 11-7-69	EQUIPMENT CORPORATION MAYHARD, MASSACHUSETTS		
CHKD. N.RHEAULT	DATE 11-7-6			
ENG. F. ALUMANN	DATE 11-7-69	TITLE		
PROJ. ENG. G. BUTLER	DATE 11-7-69	INDEX INSTRUCTION BUS CONTROL		
PROD. F. LASKEY	DATE 11-7-69			
FIRST USED ON KP15		SIZE D	CODE BS	NUMBER KP15-0-29
SCALE		REV. H		
SHEET 1	OF 1	DIST.		

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DRN.	DATE	EQUIPMENT
M. SCHURMAN	11-7-69	CORPORATION
CHKD.	DATE	
N. RHEAULT	11-7-69	MAYNARD, MASSACHUSETTS
ENG.	DATE	TITLE
F. AUMANN	7-69	MAJOR INST DECODING
PROJ. ENG.	DATE	
G. BUTLER	11-7-69	
PROD.	DATE	
F. LASKEY	11-7-69	
FIRST USED ON		
KP15		
SIZE	CODE	NUMBER
SCALE	0 BS	KP15-0-30
SHCET	OF	REV.
	1	L



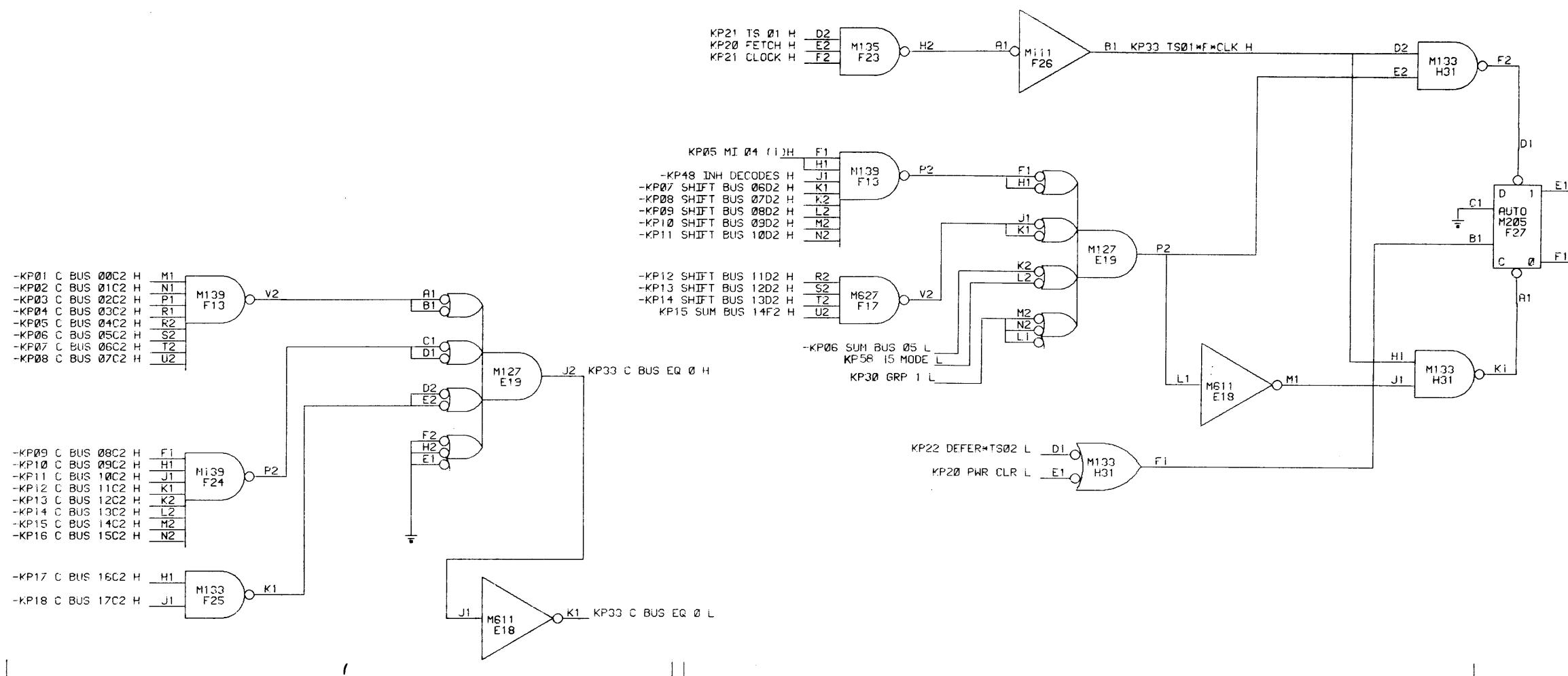


REVISIONS			REVISIONS		
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	S GOLDSBY 7/15/70			SWANSON 7/17/73	D
F	AUMANN 7/22/70				
GH	KP15-00052	N		KP15-00072	T
	S GOLDSBY 3/1/71				
F	AUMANN 3/2/71				
#1	KP15-00056	E			
	MULTE 6/27/71				
F	HUMAN 8/12/71				
	KP15-00060	F			

DRN. S GOLDSBY	DATE 10-15-69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. L HOHOS	DATE 10-15-69			
ENG. F AUMANN	DATE 10-7-69	TITLE		
PROJ. ENG. G BUTLER	DATE 10-7-69	MEMORY INTERFACE CONTROL		
PROD. F LASKEY	DATE 10-7-69			
FIRST USED ON PDP 15				
SCALE		SIZE	CODE	NUMBER
SHEET 1	OF 1	D	RS	KP15-A-32
		REV. T		
		DIST.		

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6 5 4 3 2

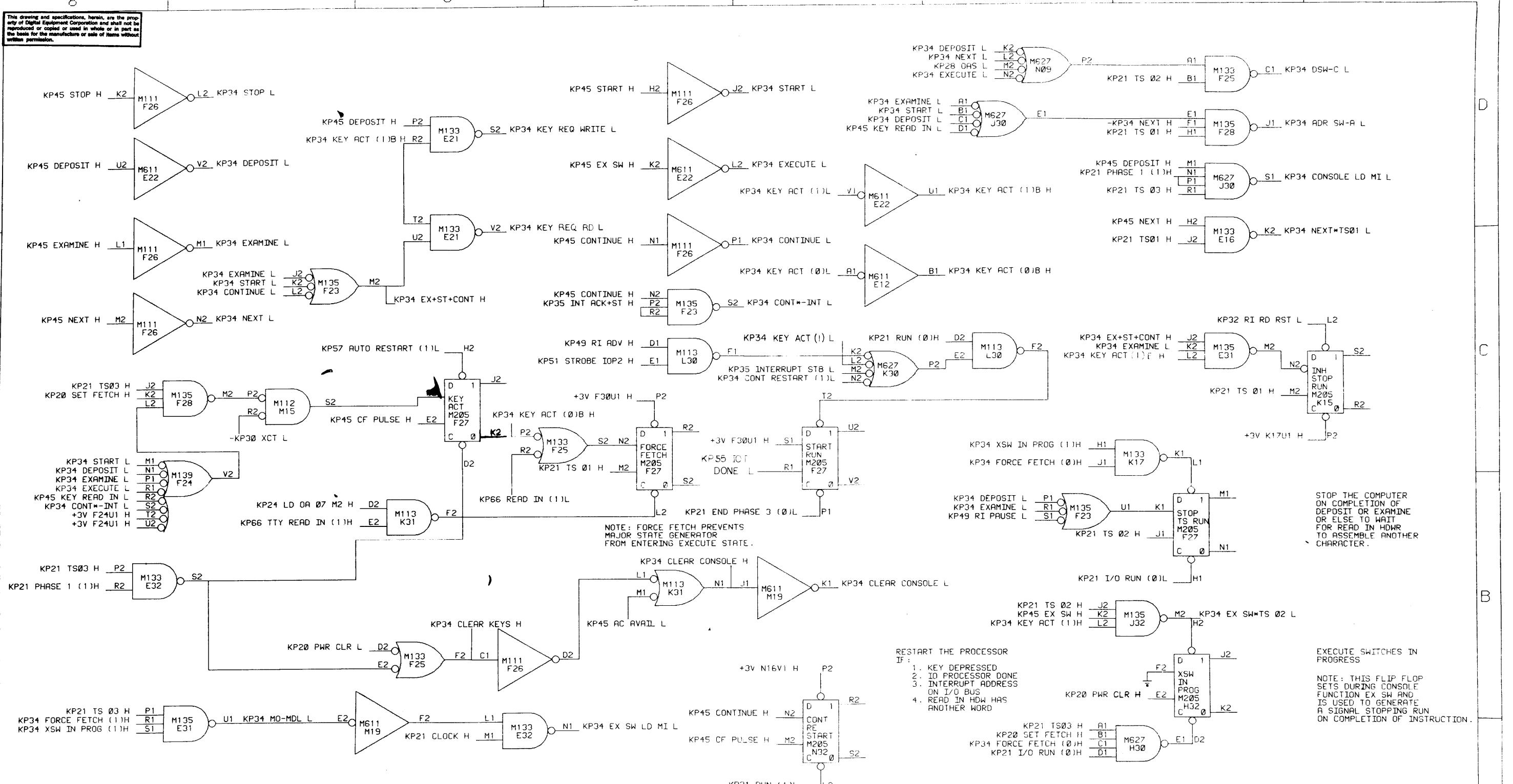


LOGIC TESTS C BUS FOR ALL ZEROS
USED FOR OPERATE SKIP TESTS
AND SAD

LOGIC EXAMINES ADDRESS OF MEMORY REFERENCE INSTRUCTIONS
IF AD_{15:8} REFERENCED INDIRECTLY IS BETWEEN 10 AND 17
THEN CONTENTS OF REFERENCED LOCATION IS AUTO INCREMENTED

REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	C	S GOLDSBY	KP15-00038	C
	7-15-70		G. RUMANN	7-15-70	
F	RUMANN	J	F. DOLL		
GH	KP15-00046	D			
	K. WALSH	12/18/70			
F	RUMANN	12/18/70			
	KP15-00056	E			

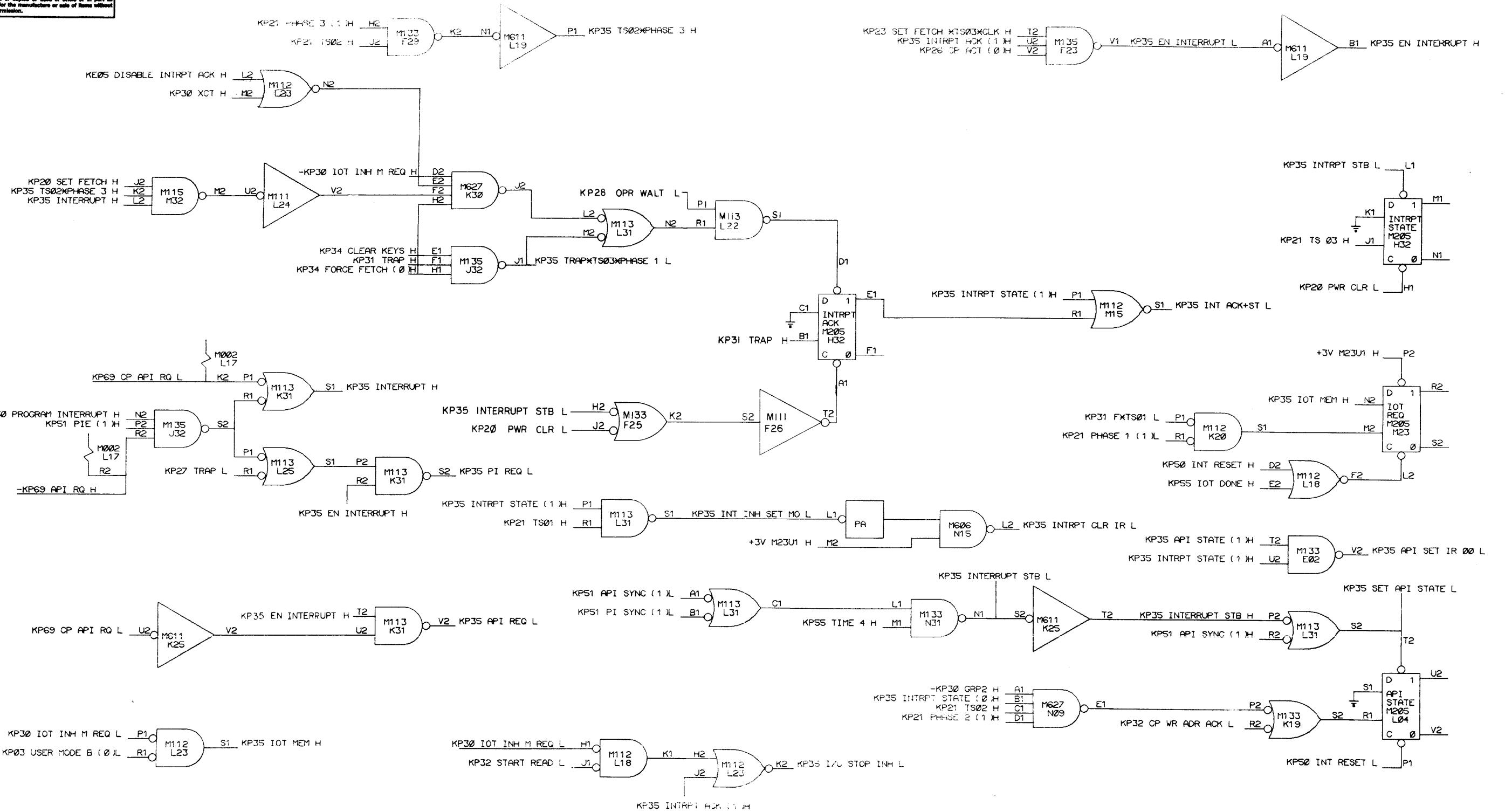
DRN. J. FASSHAUER	DATE 10/7/69	EQUIPMENT	
CHK'D. R. COOK	DATE 10/7/69	CORPORATION MAYNARD, MASSACHUSETTS	
ENG. F. RUMANN	DATE 10/7/69	TITLE	
PROJ. ENG. G. BUTLER	DATE 10/9/69	DETECT XMODE & CBUS	
PROD. F. LASKEY	DATE 10/8/69		
FIRST USED ON KP15		SIZE CODE D 85	NUMBER KP15-0-33
SCALE	REV. F	DIST.	
SHEET 1 OF 1			



REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	L	Lg	KP15-00078	P
S	GOLDSBY 7/15/70			Blodget 1/16/73	
F	RUMANN 7/15/70			DOLL	
GH	KP15-00048	M			
N	LEGERE 1/12/71			KP15 OCC82	R
F	RUMANN 1/12/71				
	KP15-00056	N			

DRN. M. SCHURMAN	DATE 11-7-68	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D N. RHEAULT	DATE 11-7-68			
ENG. F. RUMANN	DATE 11-7-68	TITLE CONSOLE INTERFACE		
PROJ. ENG. G. BULTER	DATE 11-7-68			
PROD. F. LASKEY	DATE 11-7-68			
FIRST USED ON KP15		SIZE D-BS	CODE KP15 0 31	NUMBER REV. R
SCALE				
SHEET 1	OF 1	DIST		

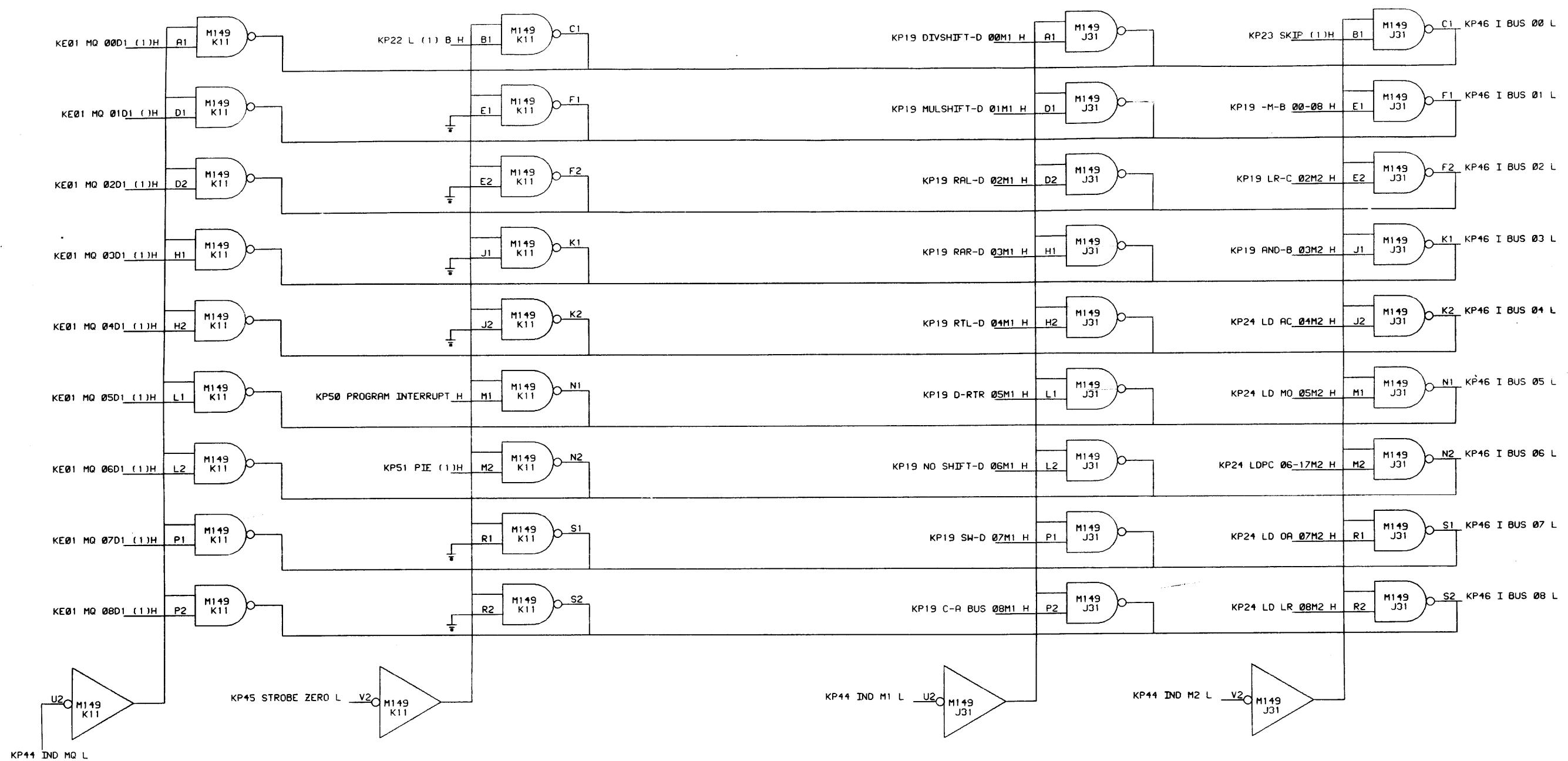
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REVISONS			REVISONS			REVISONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00036	L	GH	KP15-00056	R	Y		
S. GOLDSBY	7-15-70		N. COTE	6/22/71				
F. AUMANN	7-22-70		F. AUMANN	6/23/71				
GH	KP15-00046	M	GH	KP15-00062	T			
K. WALSH	12/11/70		N. COTE	9/7/71				
F. AUMANN	12/11/70		F. AUMANN	9/27/71				
GH	KP15-00046	U	KP15-00066	T		F. DOL		
N. LEGERE	1/12/71							
F. AUMANN	1/12/71							
GH	KP15-00055	F						
S. GOLDSBY	3/17/71							
F. AUMANN	3/2/71							

DRN.	S. GOLDSBY	DATE	10-15-69	digital EQUIPMENT
CHK'D.	L. HOHOS	DATE	10-15-69	CORPORATION
ENG.	F. AUMANN	DATE	10-7-69	MAYNARD, MASSACHUSETTS
PROJ. ENG.	G. BUTLER	DATE	10-7-69	
PROD.	F. LASKEY	DATE	10-7-69	INTERRUPT CONTROL LOGIC
FIRST USED ON				
KP15		SIZE CODE		NUMBER
SCALE		D 8S	KP15-0-35	REV.
SHEET 1 OF 1		DIST.	VV	

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REVISIONS		
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S	GOLDSBY 7-15-70	
F	AUMANN 7-22-70	
O	KP15-00046	C

DRN.	J. FASSHAUER	DATE	10/7/69	digital EQUIPMENT
CHK'D.	R. COOK	DATE	10/7/69	MAYNARD MASSACHUSETTS
ENG.	F. AUMANN	DATE	10/7/69	TITLE
PROJ. ENG.	G. BUTLER	DATE	10/7/69	I BUS 00-08
PROD.	F. LASKEY	DATE	10/7/69	
FIRST USED ON	KP15	SIZE CODE	D BS	NUMBER
SCALE				REV. C
SHEET	1	OF	1	DIST.

8

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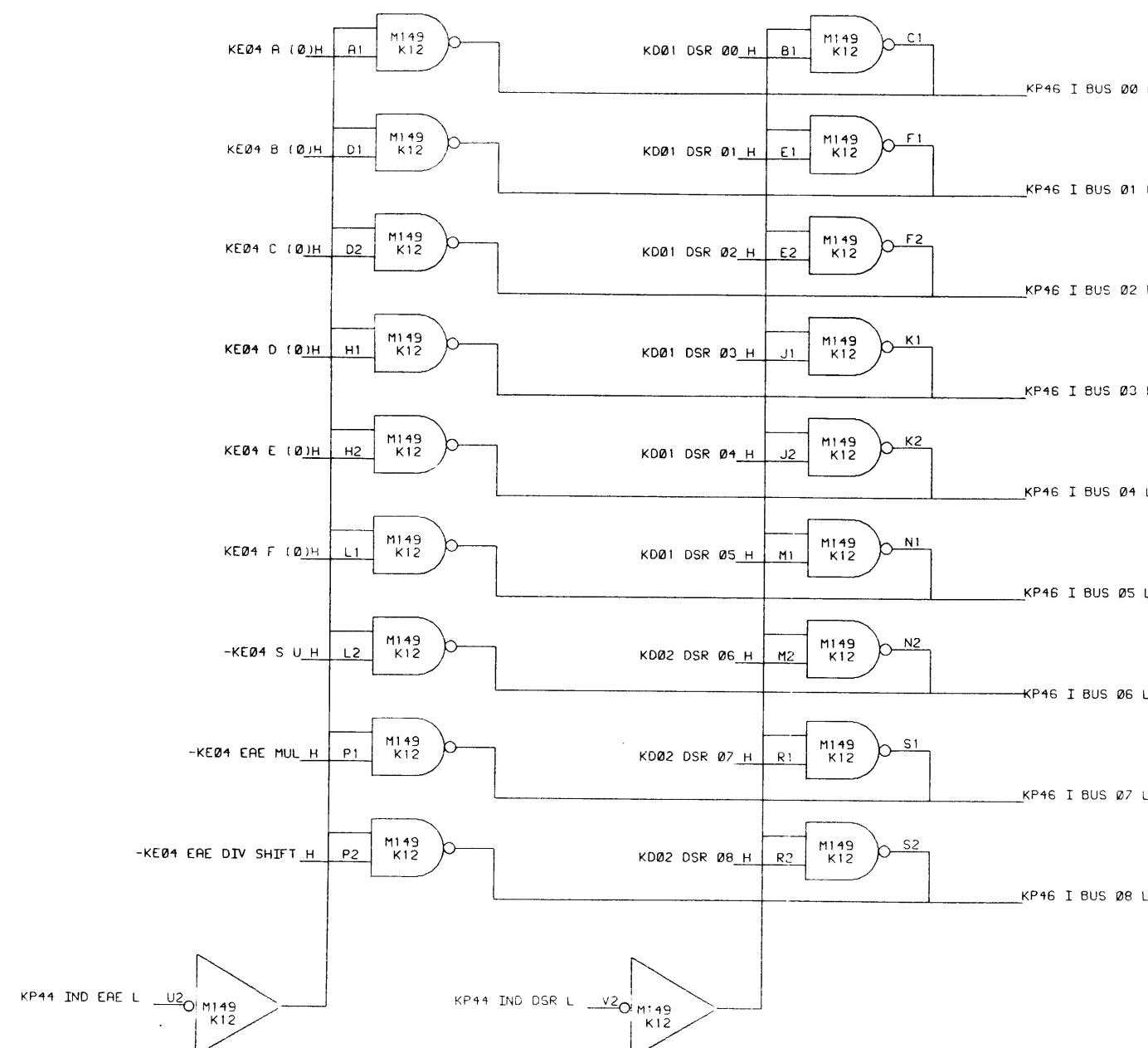
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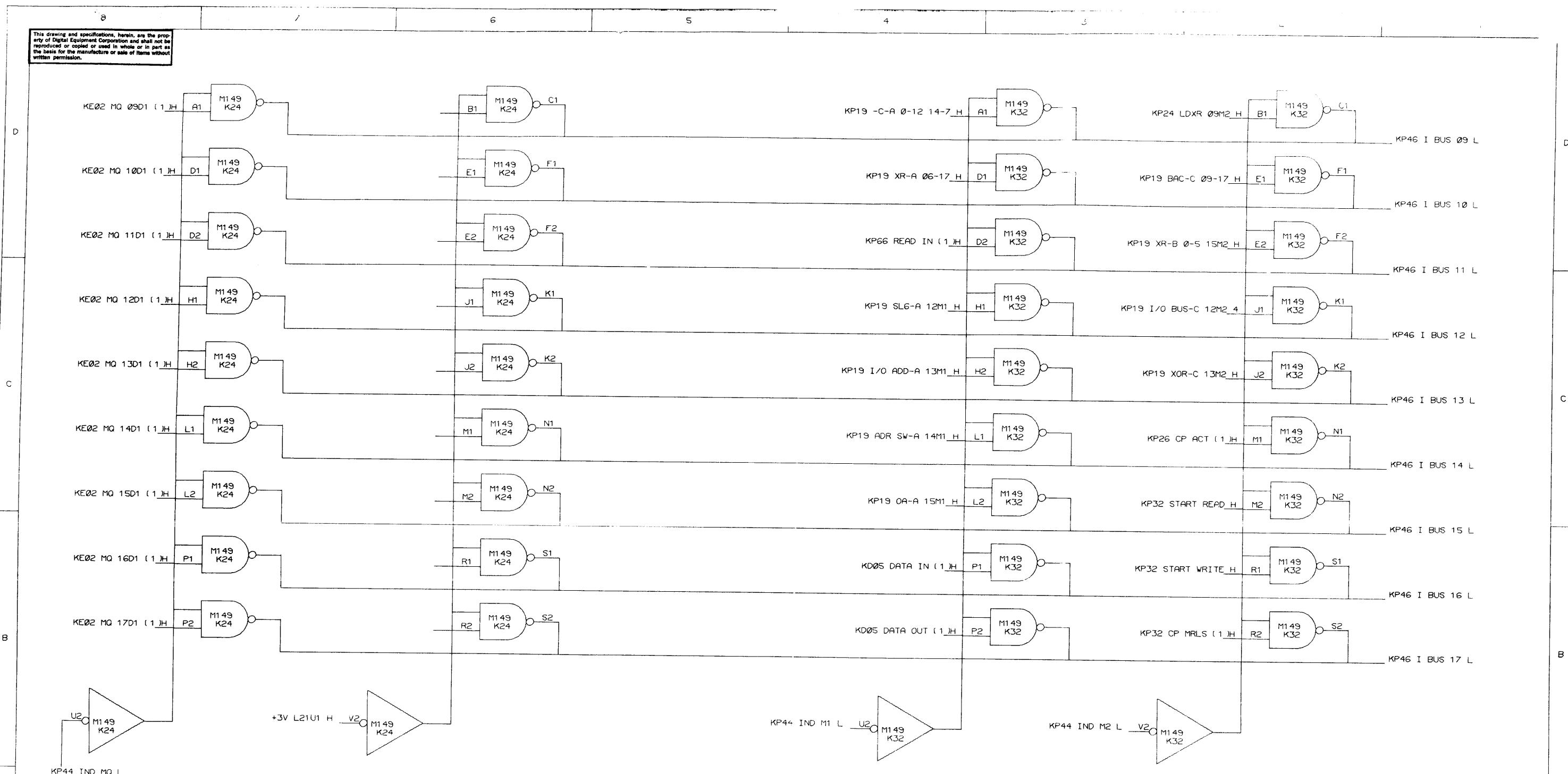
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REVISIONS		
CHK	CHANGE NO.	REV.
X#	REF 2000E	1

DRN.	DATE	digital EQUIPMENT CORPORATION	
CHK'D.	DATE		
ENG.	DATE	MAYNARD, MASSACHUSETTS	
PROJ. ENG.	DATE	TITLE	
PROD.	DATE	I BUS 02-06	
FIRST USED ON			
KP15			
SCALE	SIZE CODE	NUMBER	REV.
	D BS	KP15-C-02	A
SHEET 1 OF 1	DIST.		

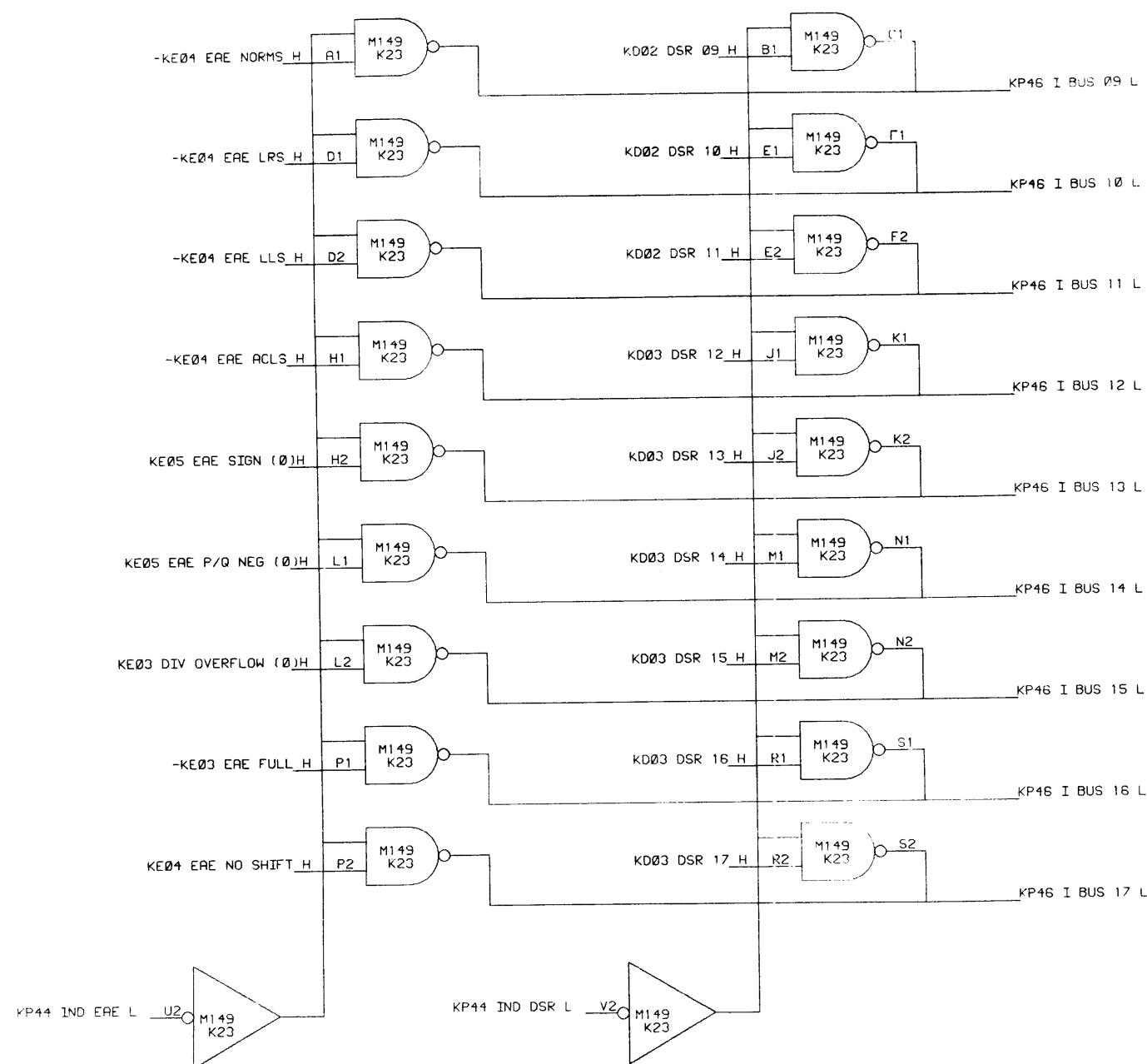


REVISIONS		
CHK	CHANGE NO.	REV.
L4	KP15-00038	B
	2 GOLDSBY 7/15/70	
	F. ALMANN 7/22/70	
	KP15-00057	C
	2 P. J. WOHLFARTH	

DRN. J. FASSHAUER	DATE 10/77/68	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
RND. R. COOK	DATE 10/77/68	
ENG. HUMANN	DATE 10/77/68	
PROJ. ENG. BUTLER	DATE 10/77/68	
PROD. LASKEY	DATE 10/77/68	
FIRST USED ON KP15	SIZE CODE D BS	
SCALE SHEET 1 OF 1	NUMBER KP15-0-40	REV. C
DIS.		

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REVISIONS		
CHK	CHANGE NO.	REV.
✓	KP15-0003	B

DRN J. FASSHAUER	DATE 10/7/69	EQUIPMENT CORPORATION	
CHKD R. COOK	DATE 10/7/69	digital MAYNARD, MASSACHUSETTS	
ENG F. HUMANN	DATE 10/7/69	TITLE I BUS 09-17	
PROJ. ENG. G. BUTLER	DATE 10/9/69		
PROD F. LASKEY	DATE 10/8/69		
FIRST USED ON KP15	SIZE CODE D BS	NUMBER KP15-0-41	REV. B
SCALE		DIST.	
SHEET 1 OF 1			

8

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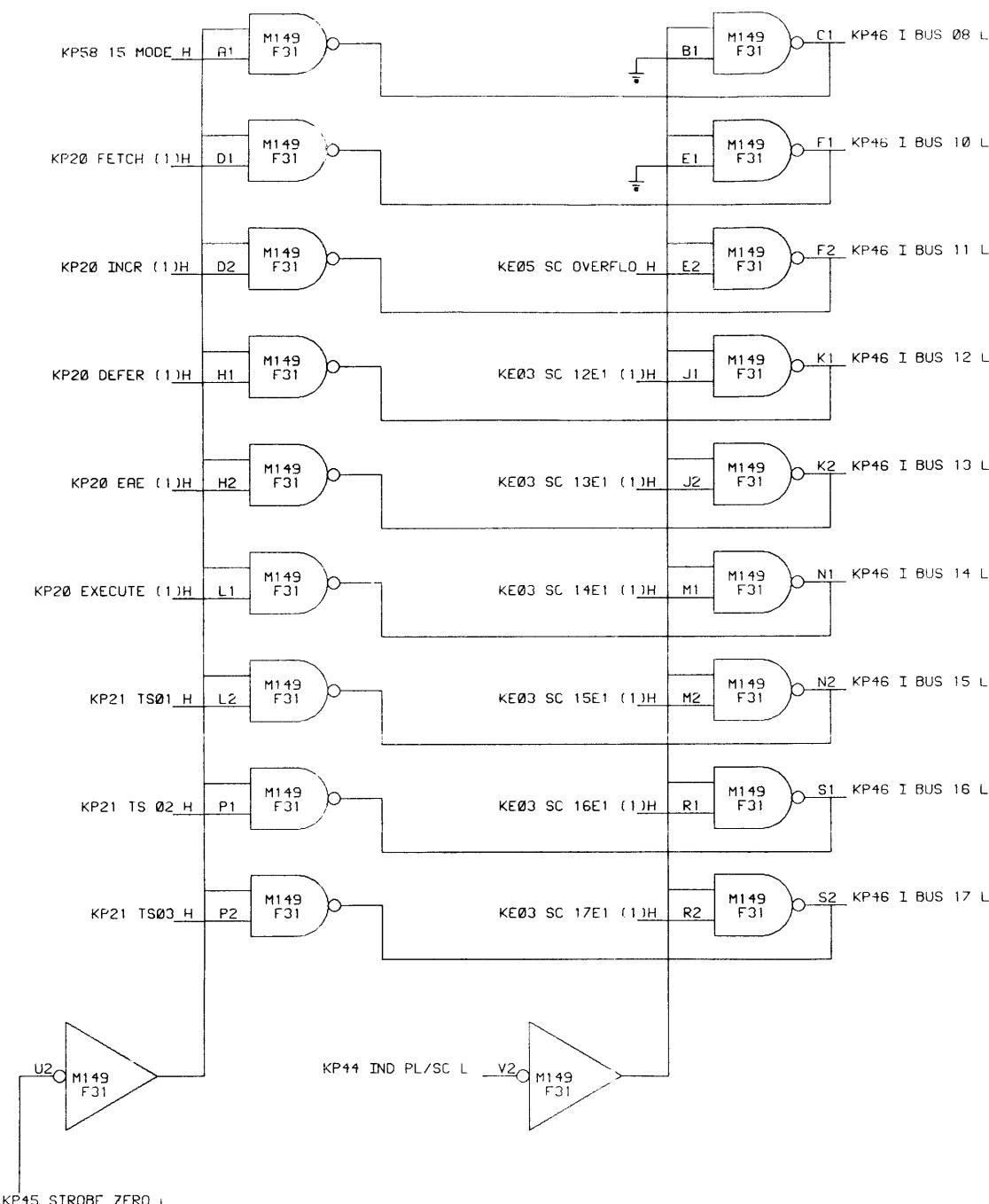
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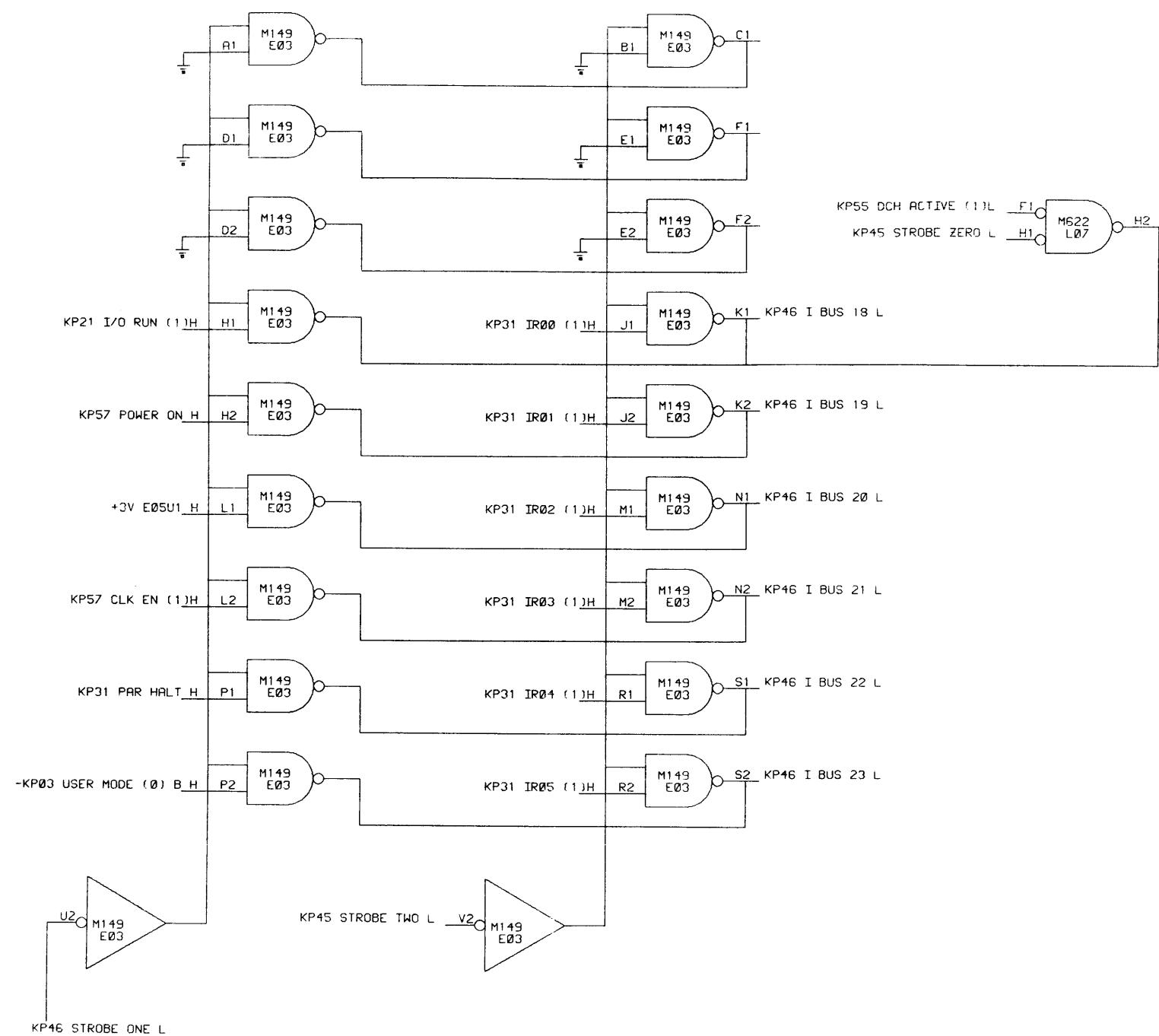
DRN: J.FASSHAUER	DATE: 10/7/69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D: R.COOK	DATE: 10/7/69	digital	
ENG: HUMANN	DATE: 10/7/69	TITLE:	
PROL. ENG: G.BUTLER	DATE: 10/7/69	I BUS 08 10-17 SC	
PROD: P.LASKEY	DATE: 10/8/69		
FIRST USED ON KP15		SIZE CODE: D BS	NUMBER KP15-0-12
SCALE		DIST..	REV. B
SHEET 2	OF 1		

8

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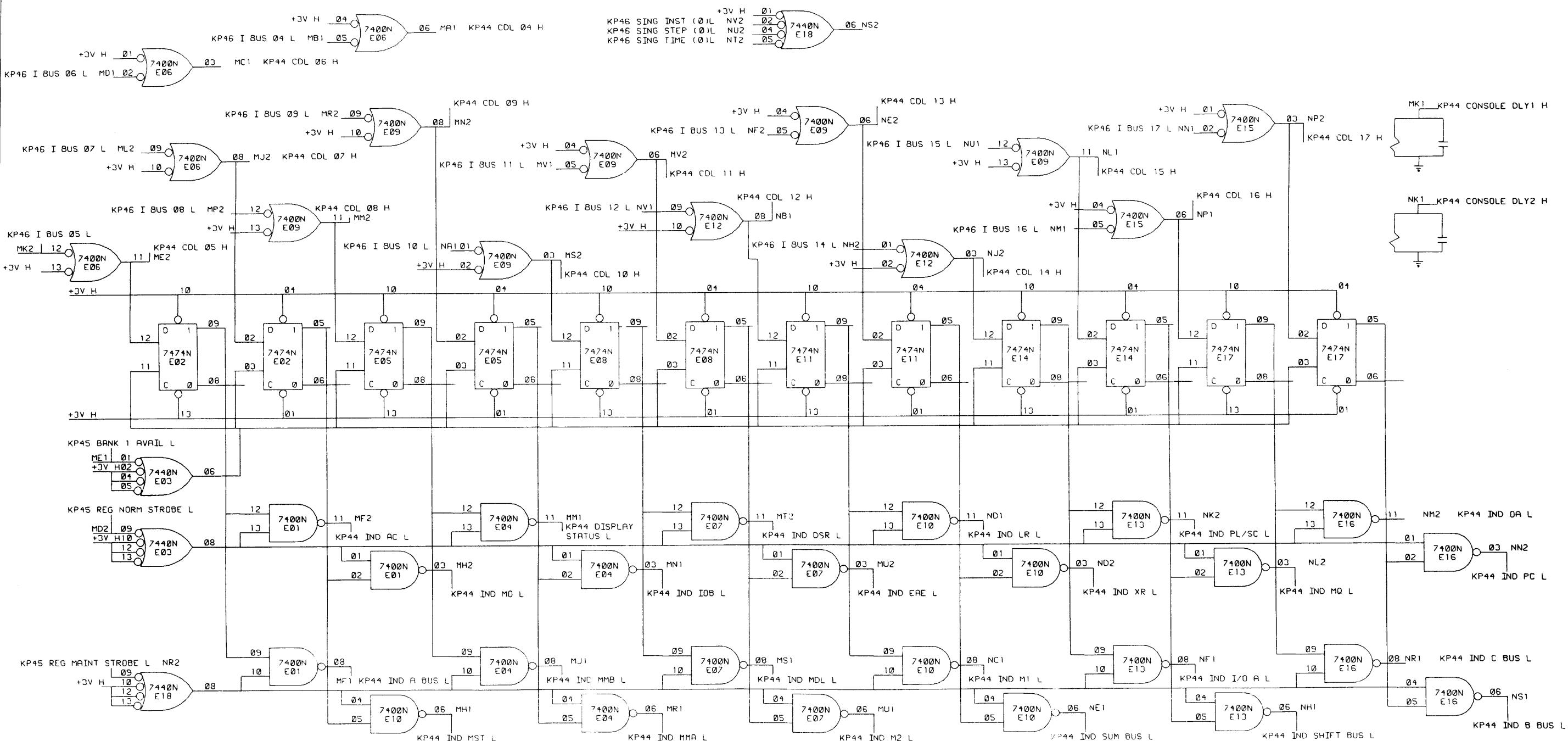
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REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	B
	S GOLDSBY 7/15/70	
	F RUMANN 7/22/70	
GH	KP15-00045	C
	S GOLDSBY 10-9-70	
	F RUMANN 10-13-70	
SH	KP15-00046	D
	S GOLDSBY 2/1/71	
	F RUMANN 2/2/71	
	KP15-00050	E

DRN S GOLDSBY	DATE 10-15-69	EQUIPMENT CORPORATION	
CHK'D LHDHS	DATE 10-15-69	digital MAYNARD, MASSACHUSETTS	
ENG F RUMANN	DATE 10-7-69	TITLE I BUS 18-23 IR	
PROJ ENG G BUTLER	DATE 10-7-69		
PROD F LASKEY	DATE 10-7-69		
FIRST USED ON KP15		SIZE CODE D BS	NUMBER KP15-0-43
SCALE		REV. E	
SHEET 1 OF 1		DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.
✓	AFT 920-8	

M772
M26
N26

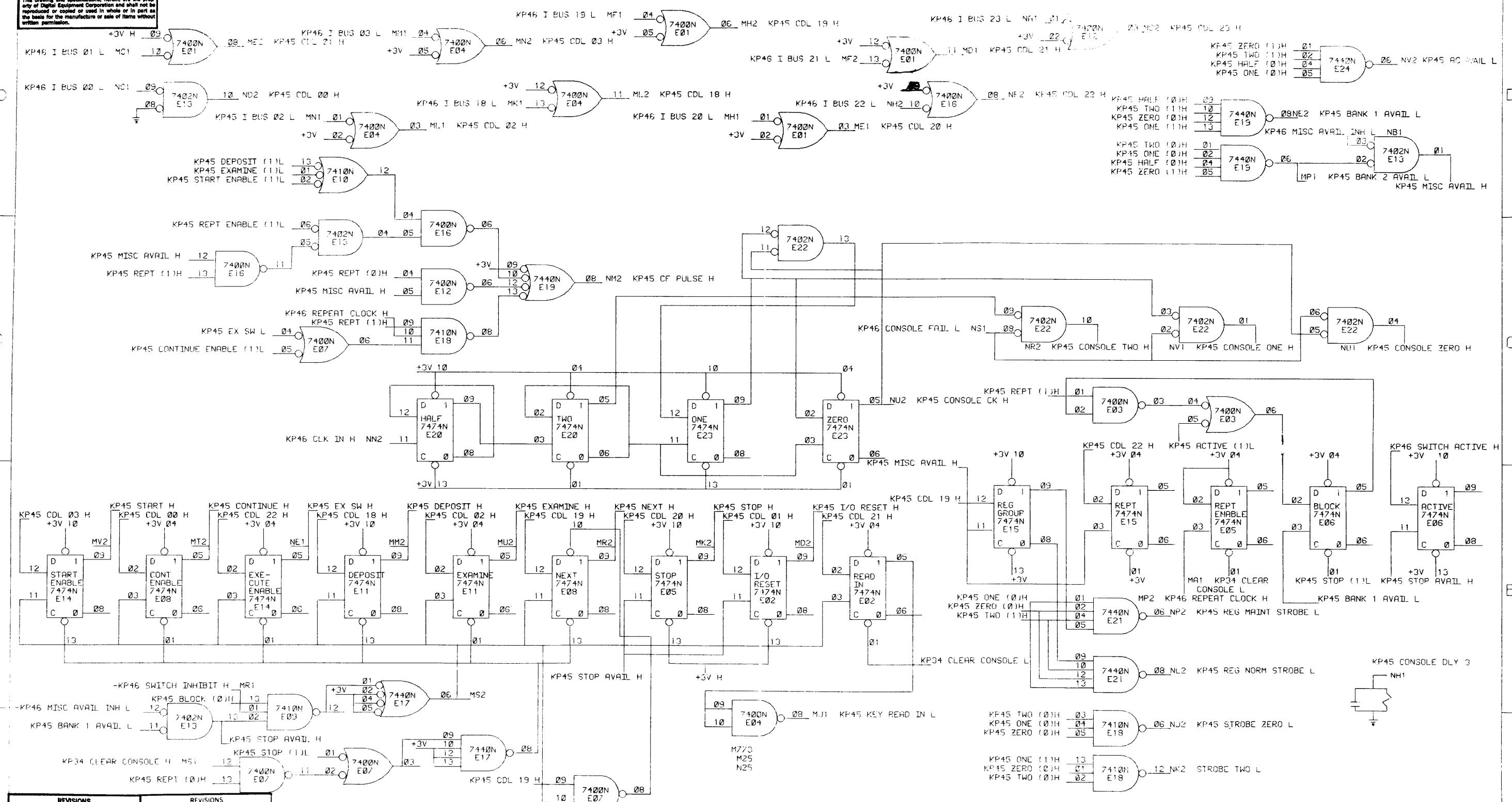
DRN: <i>L. E. G. 9/14/70</i>	DATE: <i>7/15/70</i>
CHKD: <i>John H. H.</i>	DATE: <i>7/15/70</i>
ENG: <i>E. AUMANN</i>	DATE: <i>7/15/70</i>
PROJ. ENG: <i>E. AUMANN</i>	DATE: <i>7/15/70</i>
PROD: <i>J. FLASKY</i>	DATE: <i>7/15/70</i>
FIRST USED ON	
KP15	SIZE CODE: <i>0185</i>
SCALE: <i>1</i>	NUMBER: <i>KP15-8-44</i>
SHEET: <i>1</i>	REV: <i>A</i>
DIST:	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CONSOLE CONTROL #1

1

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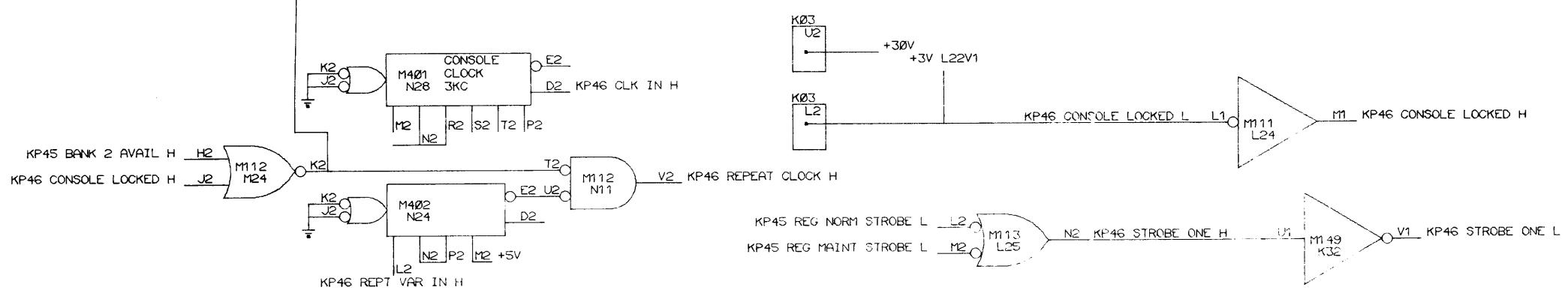
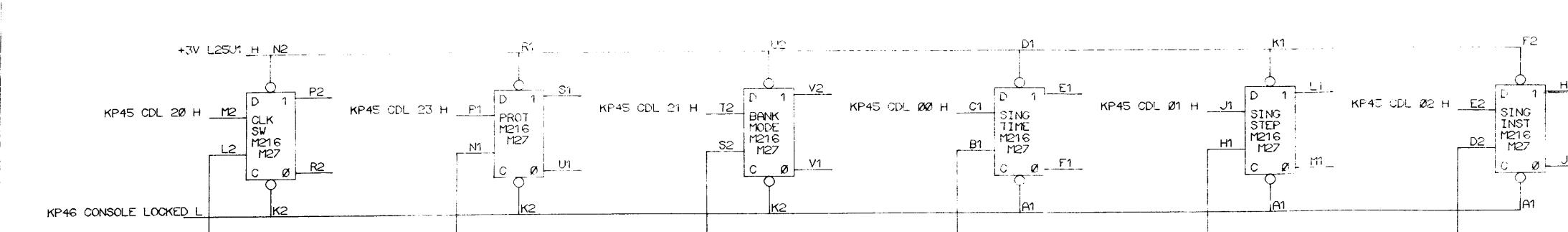
REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
I.H	KP15-00038	C	J.F	KP15-00038	C
	S.GOLDSBY 7-15-70			F.RUMANN 7-22-70	
	F.RUMANN 7-22-70			F.DILL	
	K.WALSH 12-18-70				
	F.RUMANN 12-18-70				
	K.WALSH 12-18-70				
	KP15-00046				
	F.RUMANN 12-18-70				
	KP15-00047				
	F.RUMANN 12-18-70				
	KP15-00048				
	F.RUMANN 12-18-70				

DRN.	J.FASSHUER	DATE	10-7-68
CHK'D	R.COOK	DATE	10-7-68
ENG.	F.RUMANN	DATE	10-7-68
PROJ. ENG.	G.BUTLER	DATE	10-8-68
PROD.	F.LASKEY	DATE	10-8-68
FIRST USED ON	KP15	SIZE	CODE
		D	BS
		SCALE	KP15-0-15
		SIZE	OF
		DIST.	F

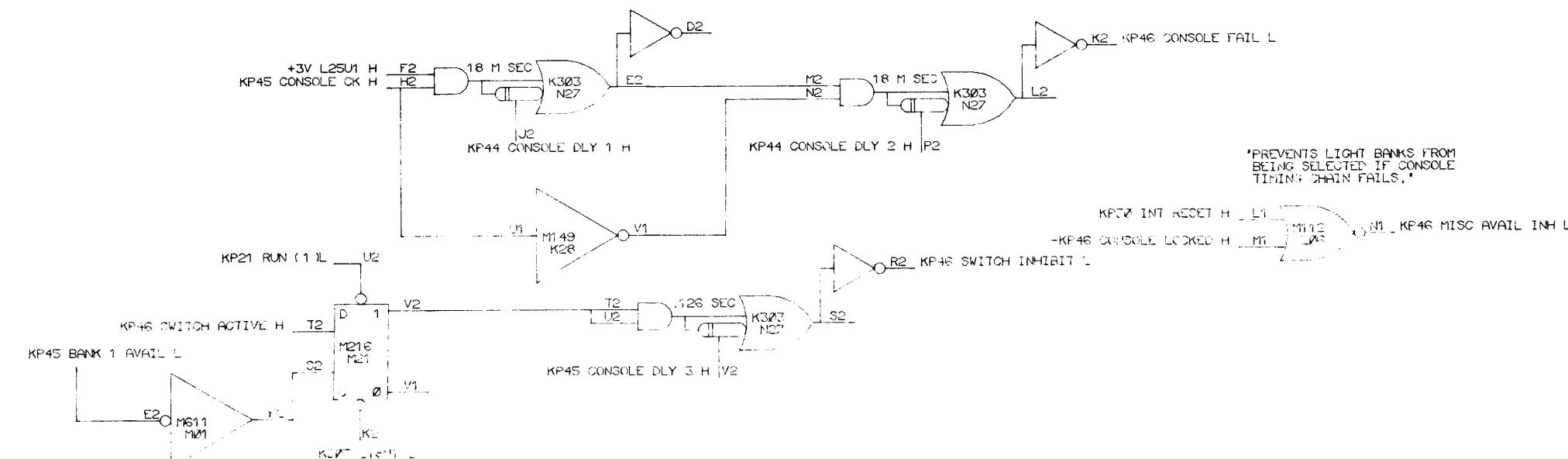
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CONSOLE CONTROL #2

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M901	L02
A1	KP46 I BUS 18 L
B1	KP46 I BUS 19 L
C1	KP46 I BUS 20 L
D1	KP46 I BUS 21 L
E1	KP46 I BUS 22 L
F1	KP46 I BUS 23 L
H1	KP46 I BUS 00 L
J1	KP46 I BUS 01 L
K1	KP46 BUS 02 L
L1	KP46 I BUS 03 L
M1	KP46 I BUS 04 L
N1	KP46 I BUS 05 L
P1	KP46 I BUS 06 L
R1	KP46 I BUS 07 L
S1	KP46 SWITCH ACTIVE H
T1	KP46 I BUS 08 L
U1	KP46 I BUS 09 L
V1	KP46 I BUS 09 L

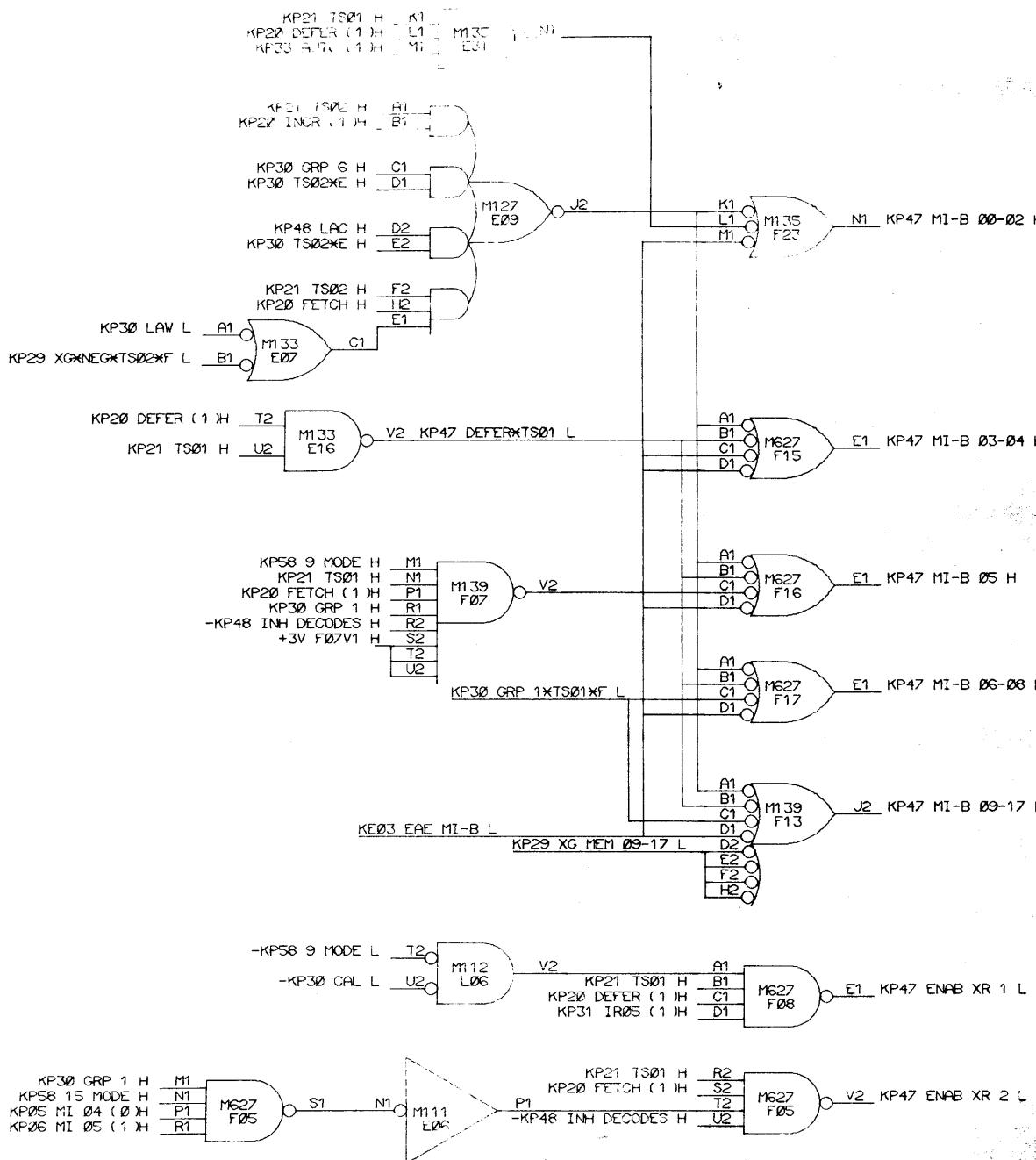


M901	L02
A2	+5V H
B2	
C2	
D2	KP46 I BUS 10 L
E2	KP46 I BUS 11 L
F2	KP46 I BUS 12 L
H2	KP46 I BUS 13 L
J2	KP46 I BUS 14 L
K2	KP46 I BUS 15 L
L2	KP46 I BUS 16 L
M2	KP46 I BUS 17 L
N2	
P2	
R2	KP46 REPT VAR IN H
S2	
T2	KP45 CONSOLE TWO H
U2	KP45 CONSOLE ONE H
V2	KP45 CONSOLE ZERO H

REVISIONS		
CHK	CHANGE NO.	REV.
1-H	KP15-2007-08	H
2-H	KP15-2007-07	
3-H	KP15-2007-06	
4-H	KP15-2007-05	
5-H	KP15-2007-04	
6-H	KP15-2007-03	
7-H	KP15-2007-02	
8-H	KP15-2007-01	
9-H	KP15-2007-00	

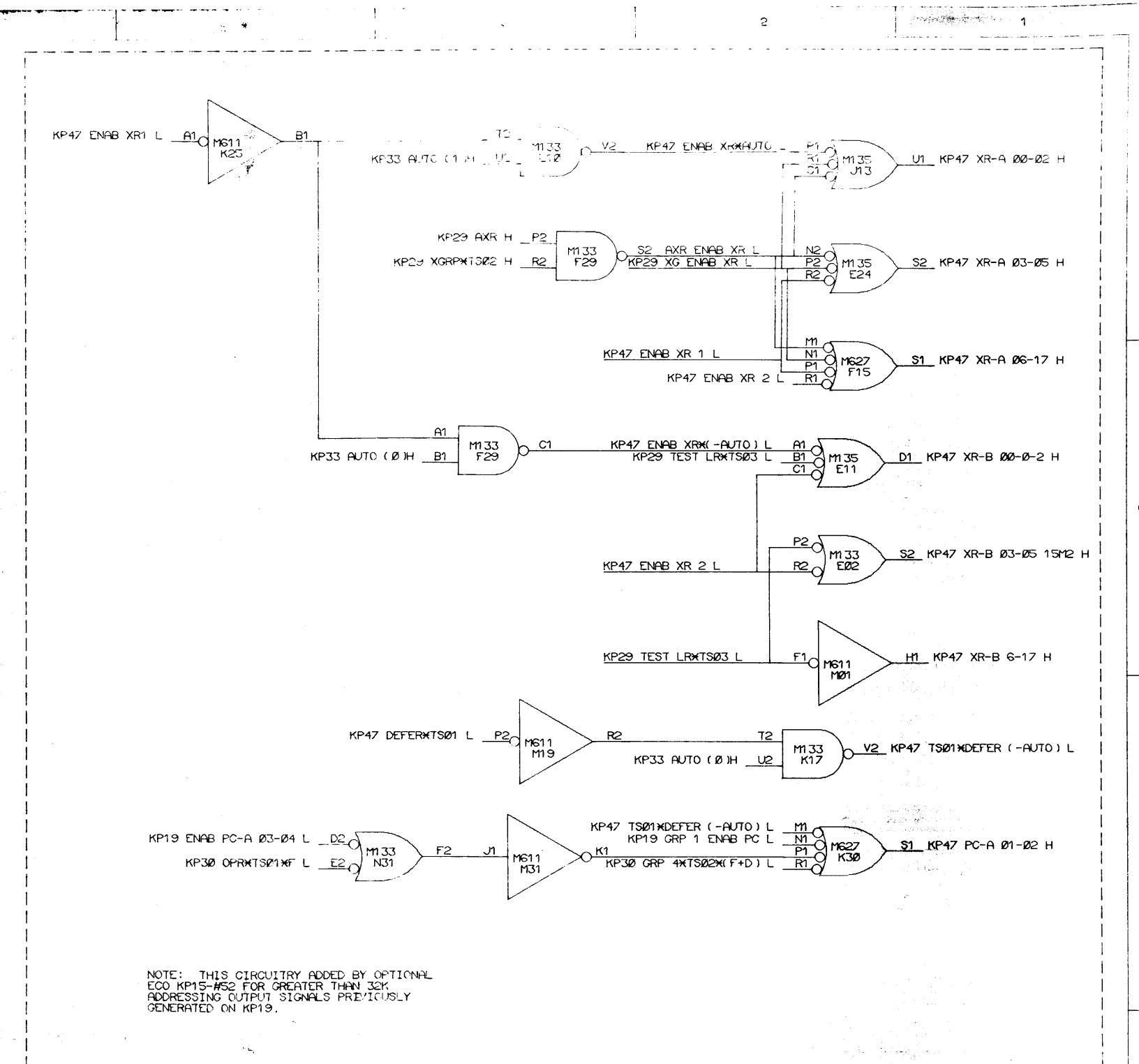
DRN.	DATE	digital EQUIPMENT CORPORATION
M. SCHURMAN	11-7-69	MAYNARD, MASSACHUSETTS
CHK'D	DATE	
N. RHEHULT	11-7-69	TITLE
ENG.	DATE	MISC CONSOLE LOGIC
F. AUMANN	11-7-69	
PROJ. ENG.	DATE	
G. BUTLER	11-7-69	
PROD.	DATE	
J. LASKEY	11-7-69	
FIRST USED ON		
KP15		
SIZE	CODE	NUMBER
L-165	KP15-2-46	REV.
SCALE		
SHEET 1	OF 1	DIST.

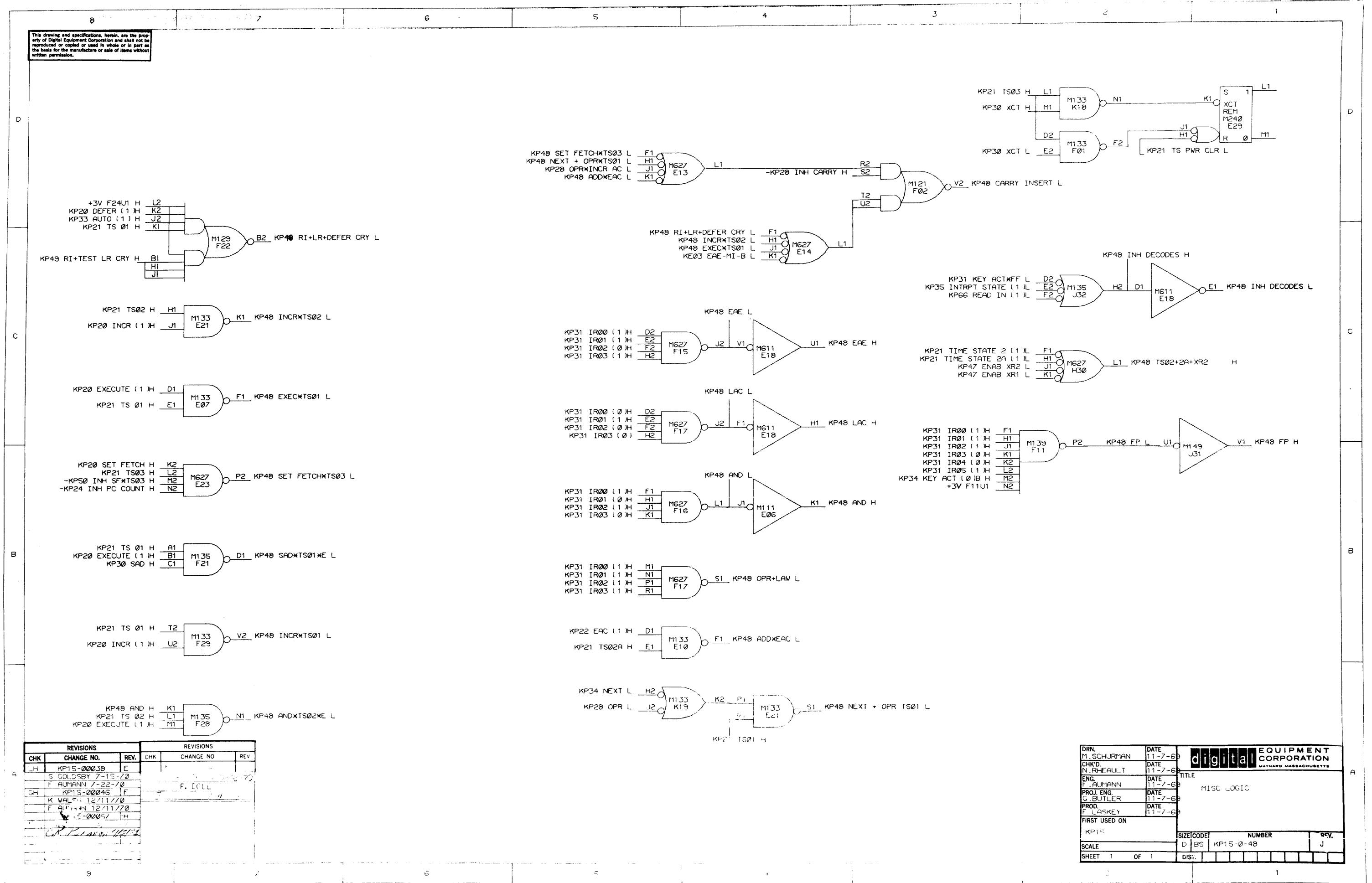
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ENABLE INDEX REGISTER FOR INDEXED ADDRESSING

REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	D
	S. GOLDSBY 7/15/74	
	I. HUMANN 7/22/74	
	KP15-00039	
	S. GOLDSBY 8/1/74	
	I. HUMANN 8/1/74	
	KP15-00040	
	R. COOK 8/1/74	





REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	E			
S. GOLDSBY	7-15-70		F. AUMANN	7-22-70	
F. AUMANN	7-22-70		F. AUMANN	7-22-70	
GH	KP15-00046	F			
K. WALSH	12/11/70				
F. AUMANN	12/11/70				
	KP15-00057	H			
	R. P. LEONARD	J			

DRN.	DATE	digital EQUIPMENT CORPORATION
M. SCHURMAN	11-7-69	MAYNARD MASSACHUSETTS
CHK'D.	DATE	
N. RHEAULT	11-7-69	TITLE
ENG.	DATE	MISC LOGIC
F. AUMANN	11-7-69	
PROJ. ENG.	DATE	
G. BUTLER	11-7-69	
PROD.	DATE	
F. LASKEY	11-7-69	
FIRST USED ON		
KP15		
SIZE/CODE	NUMBER	REV.
D / BS	KP15-0-48	J
SCALE		
SHEET 1 OF 1		
DIST.		

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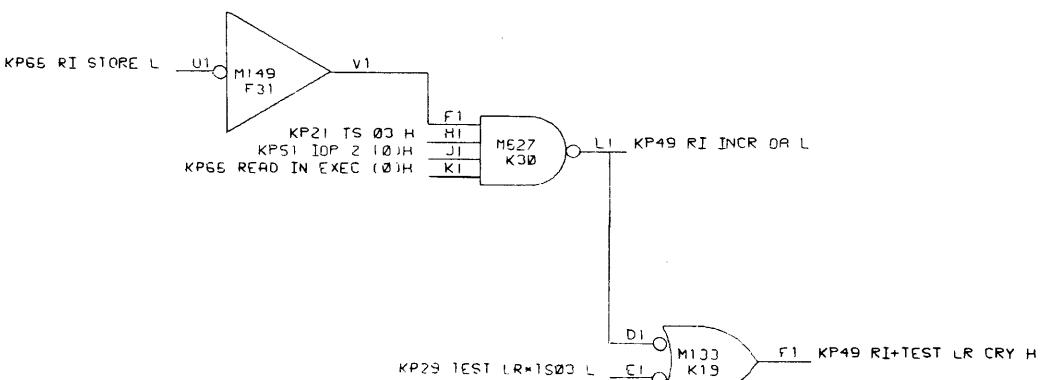
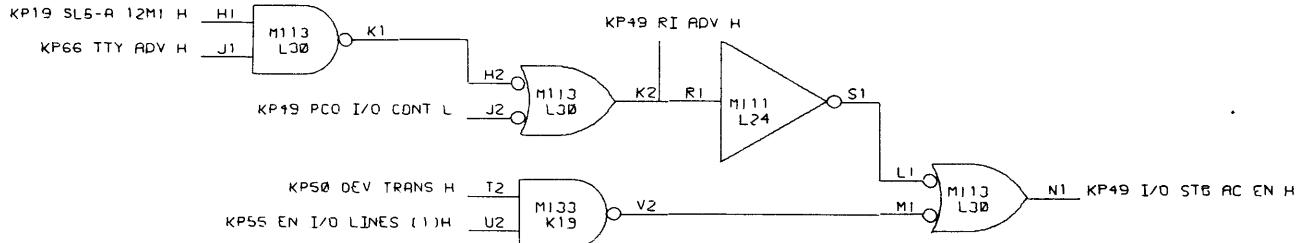
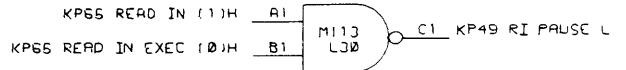
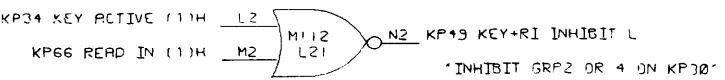
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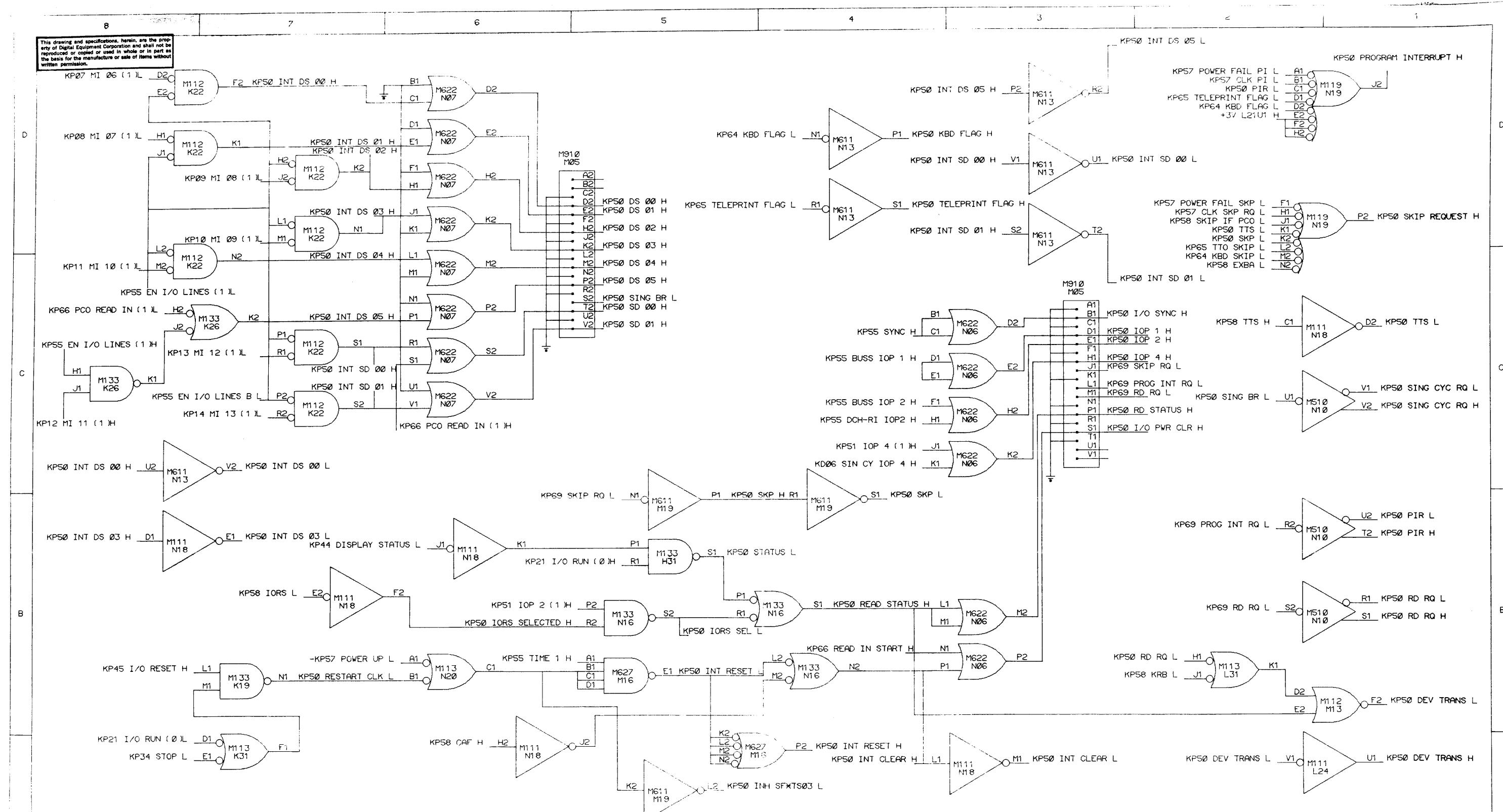
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REVISIONS		
CHK	CHANGE NO.	REV.
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✓	1	
✓	075	I
✓	SWANSON	2-21-73
✓		1

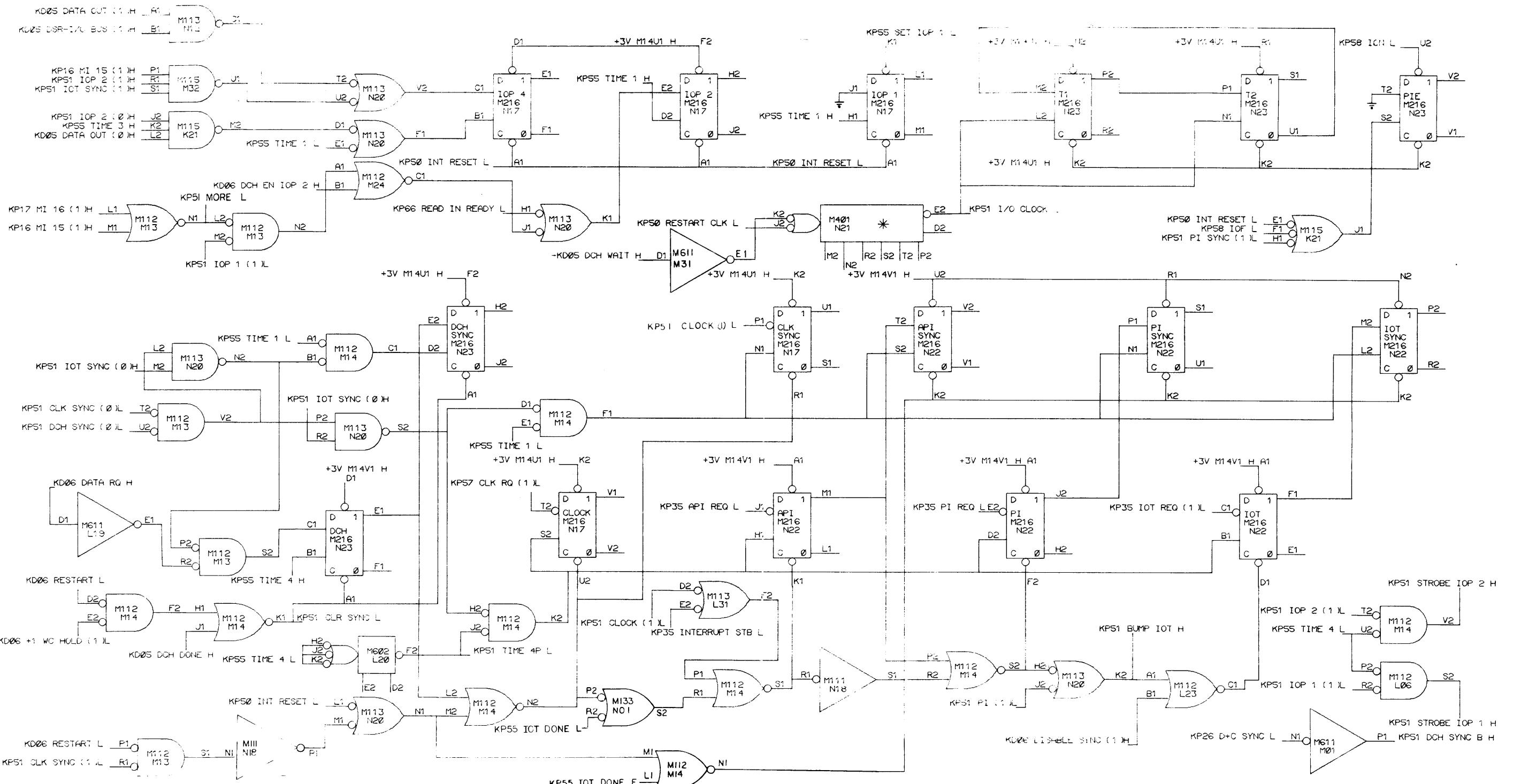
DRN. M. SCHURMAN	DATE 11-7-69	digital EQUIPMENT CORPORATION	
CHK'D. N. RHEAULT	DATE 11-7-69	MAYNARD, MASSACHUSETTS	
ENG. F. AUMANN	DATE 11-7-69	TITLE CP READ IN LOGIC	
PROJ. ENG. G. BUTLER	DATE 11-7-69		
PROD. F. LASKEY	DATE 11-7-69		
FIRST USED ON KP15		SIZE D 6S	CODE NUMBER KP15-0-49
SCALE		REV. E	
SHEET 1 OF 1	DIST.		



REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	H
	2 COLLCBY 7-15-70	
F	R.MANN 7-22-70	
GH	KP15-00046	J
	K.WALSH 12-18-70	
F	A.MANN 12-18-70	
	KP15-00048	K

DRN	DATE	digital EQUIPMENT CORPORATION
M.SCHURMAN	1-17-69	
CHK'D	DATE	MAYNARD, MASSACHUSETTS
N.RHEAULT	1-17-69	
ENG	DATE	TITLE
F.AUMANN	1-17-69	DEVICE SELECTOR
PROJ. ENG.	DATE	
G.BUTLER	1-17-69	
PROD.	DATE	
F.LASKEY	1-17-69	
FIRST USED ON		
KP15	SIZE	NUMBER
SCALE	CODE	REV.
SHEET 1 OF 1	D BS	KP15-0-50
	DIST.	K

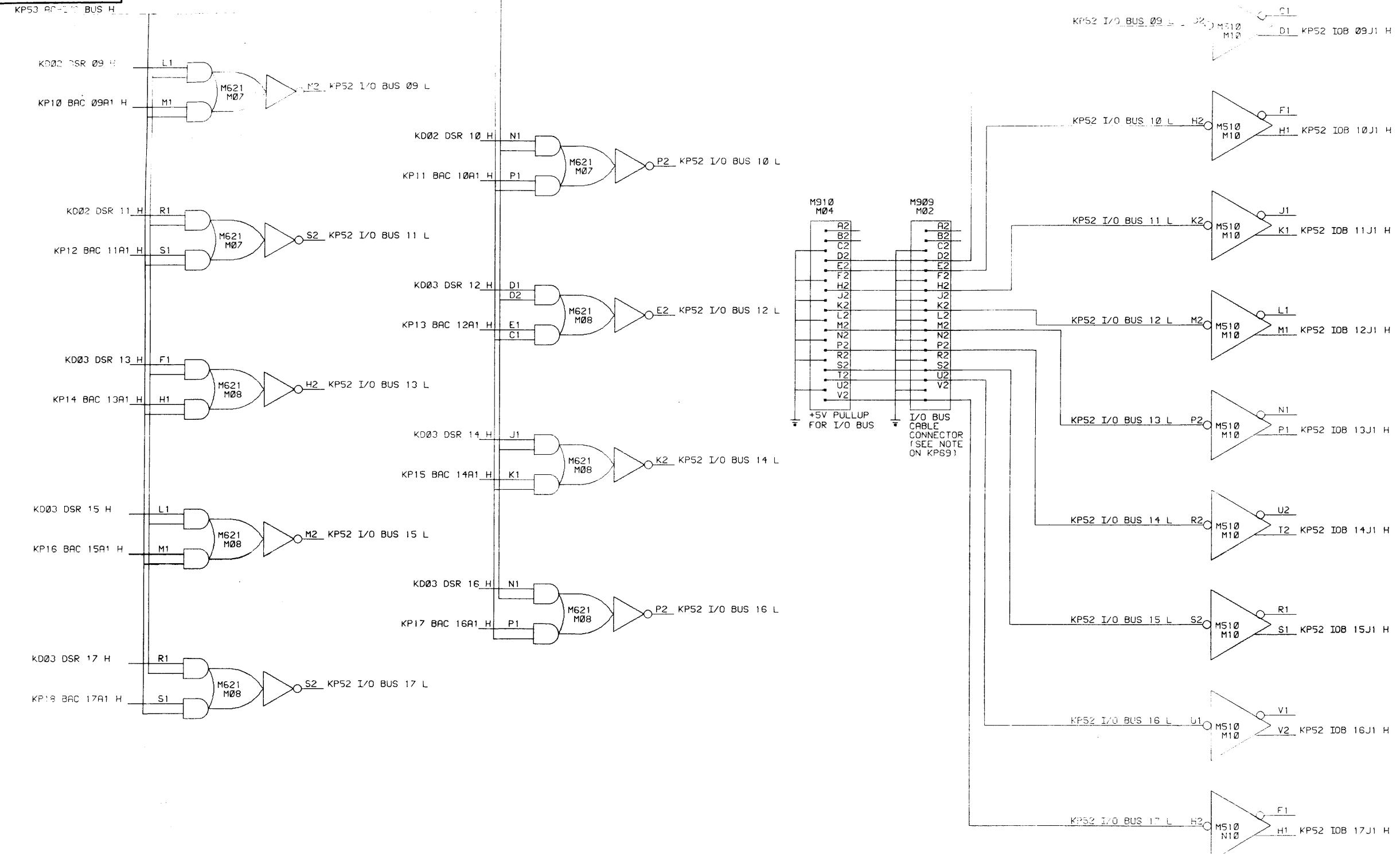
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* NORMAL SETTING IS 250 NS
SET TO 300 NS WHEN MX15A
AND MX15B ARE CONNECTED
TO THE MUL.

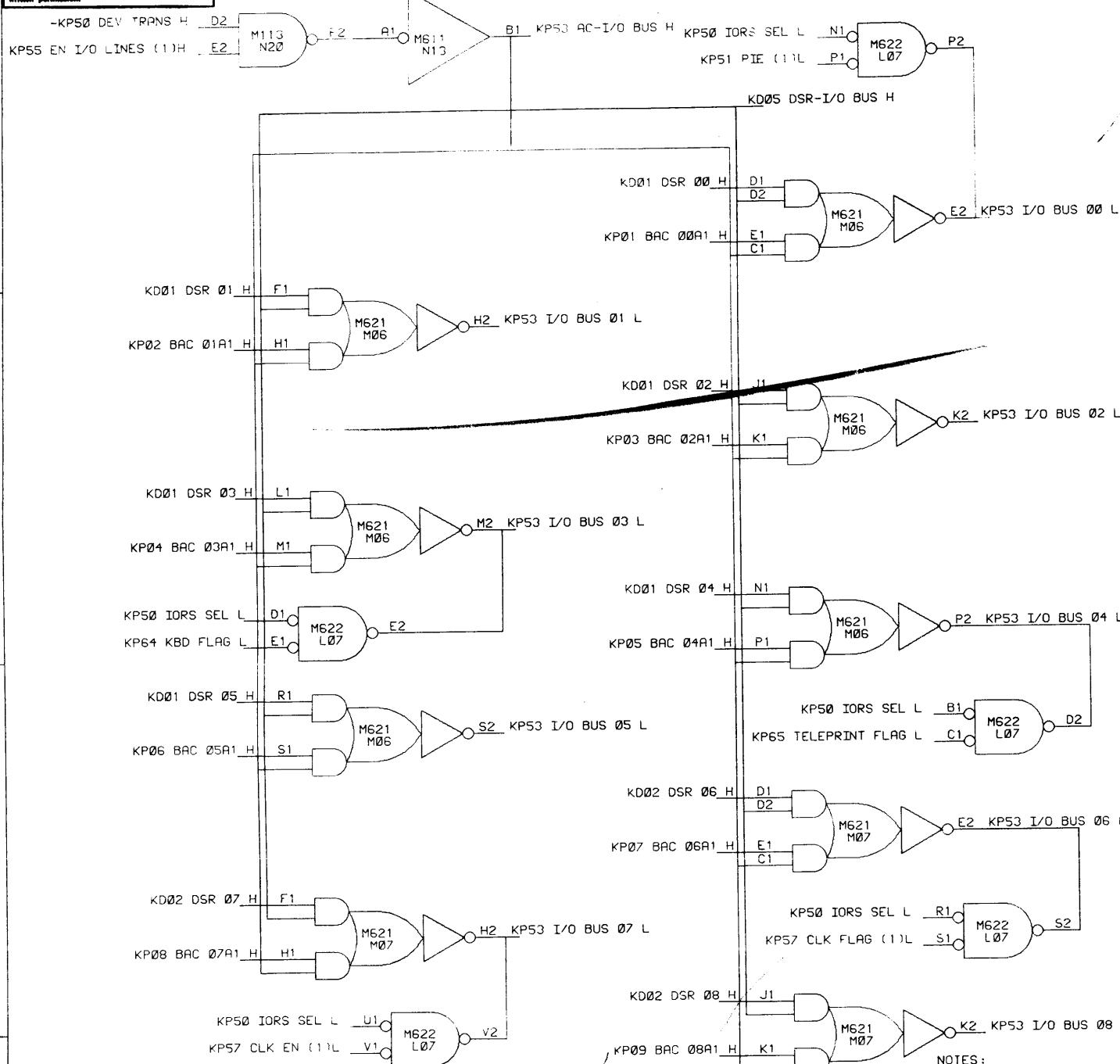
DRN.	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
J. FASSHAUER	10/7/69	digital		
CHK'D.	DATE			
R. COOK	10/7/69			
ENG.	DATE	TITLE		
F. AUMANN	10/7/69			
PROJ. ENG.	DATE	I/O CONTROL SYNC		
G. BUTLER	10/7/69			
PROD.	DATE			
E. LASKEY	10/7/69			
FIRST USED ON				
KP15	SIZE		CODE	NUMBER
SCALE	D		BS	KP15-0-51
SHEET 1	OF 1		DIST.	REV. Z

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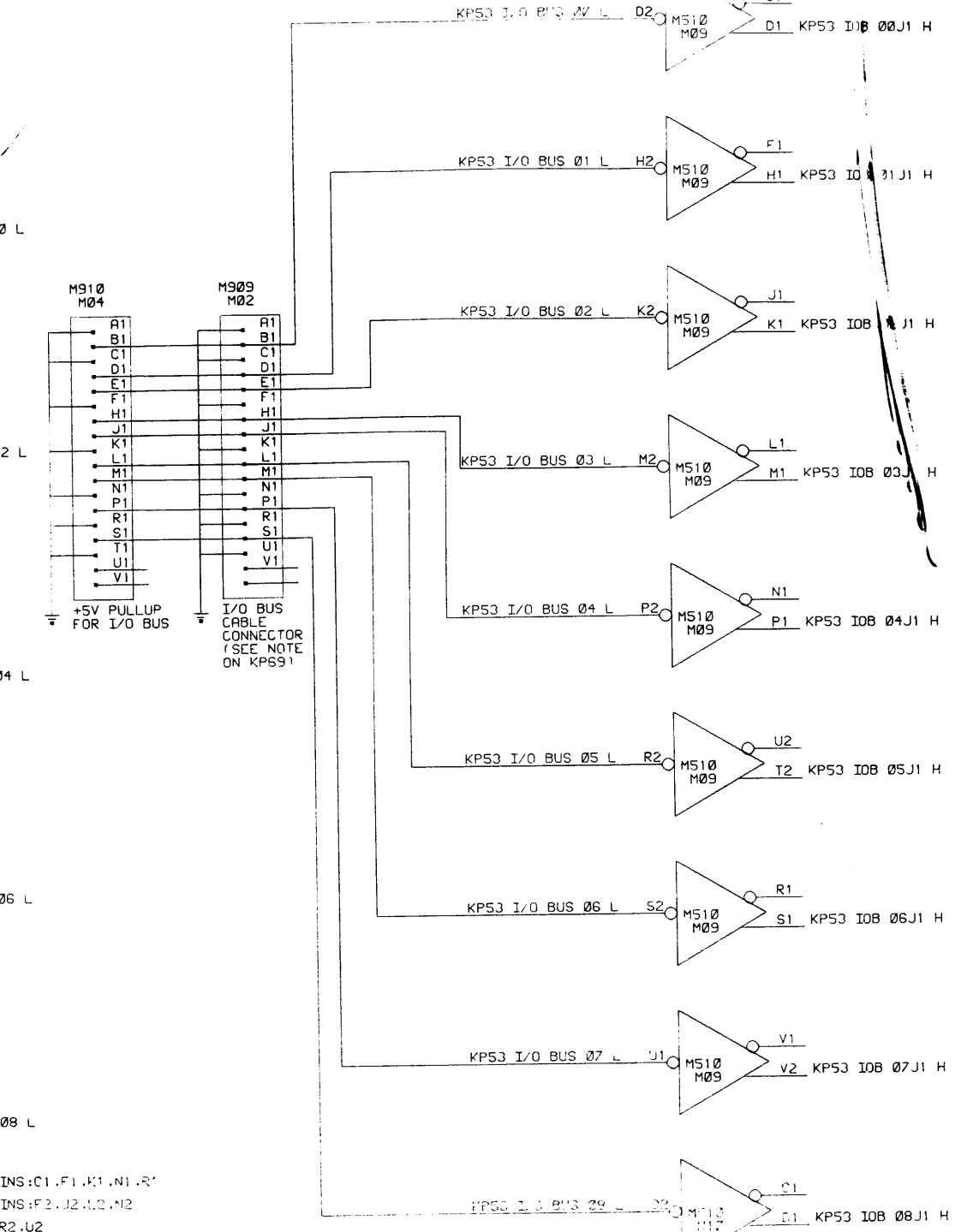


REVISIONS		
CHK	CHANGE NO.	REV.
ZH	KP15-002	1
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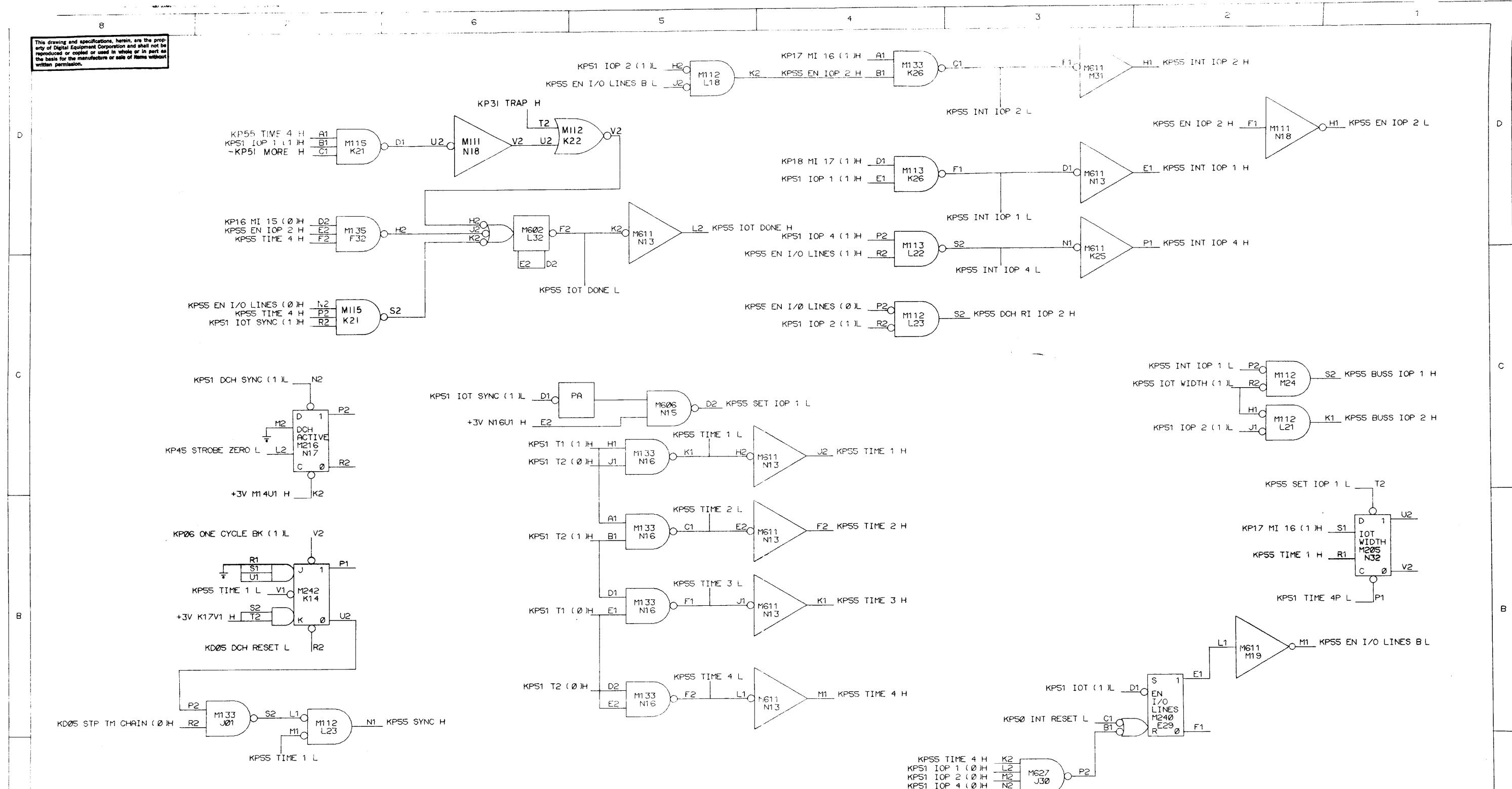


NOTES:
GND M02,M04. PINS:C1,F1,K1,N1.
GND M06,M08. PINS:F2,J2,L2,N2
GND M09. PINS:B2,H2



REVISIONS		
CHK	CHANGE NO.	REV.
✓4	KP15-006	
7/14/01		

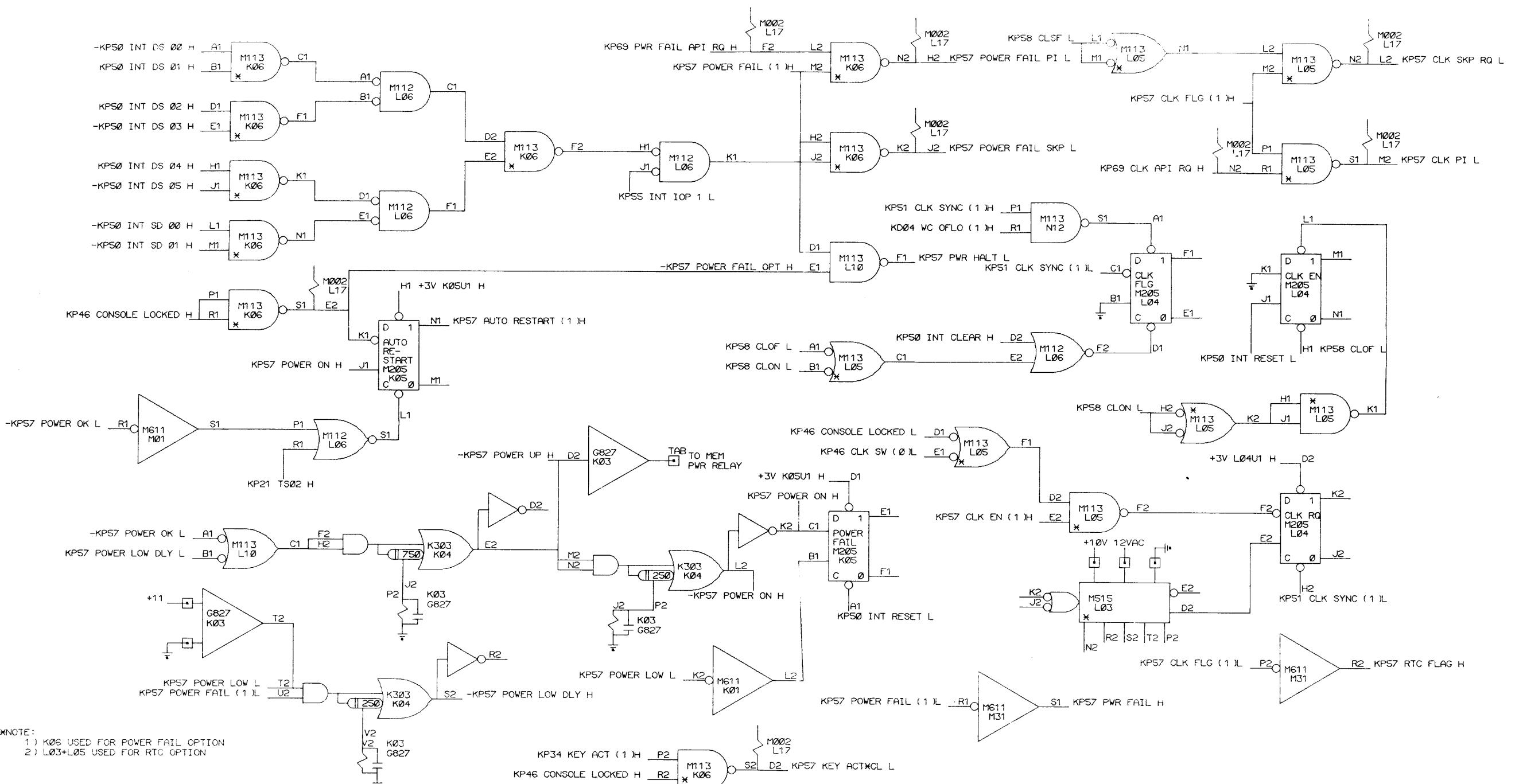
DRN: J FASSHAUER	DATE 10/77/69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D: R COOK	DATE 10/77/69	digital			
ENG: F RUMANN	DATE 10/77/69	TITLE			
PROJ. ENG: G BUTLER	DATE 10/77/69	I/O BUS BITS 0-8			
PROD: F LASKEY	DATE 10/77/69				
FIRST USED ON KP15					
SCALE		SIZE D	CODE BS	NUMBER KP15-2-53	REV. B
SHEET 1	OF 1	DIST.			



REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	H	✓	KP15-00065	M
S	GOLDSBY 7-15-70				
F	HUMANN 7-21-70				
GH	KP15-00046	J	✓	KP15-00078	J
K	WHLSH 12/11/70				
F	RUMMEL 12/11/70				
GH	KP15-00043	JK			
N	LEGERE 1/12/71				
F	RUMMEL 1/12/71				
✓	KP15-00062				
H	WHITE 1/12/71				
F	RUMMEL 1/12/71				

DRN. M. SCHURMAN	DATE 11-7-63	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHKD. N. RHEAULT	DATE 11-7-63	digital	
ENG. F. AUMANN	DATE 11-7-63	TITLE IOT AND TIME LOGIC	
PROJ. ENG. G. BUTLER	DATE 11-7-63		
PROD. F. LASKEY	DATE 11-7-63		
FIRST USED ON KP1S		SIZE D	CODE BS
		NUMBER KP1S-10-55	
SCALE		REV. F	
SHEET 1	OF 1	DIST.	

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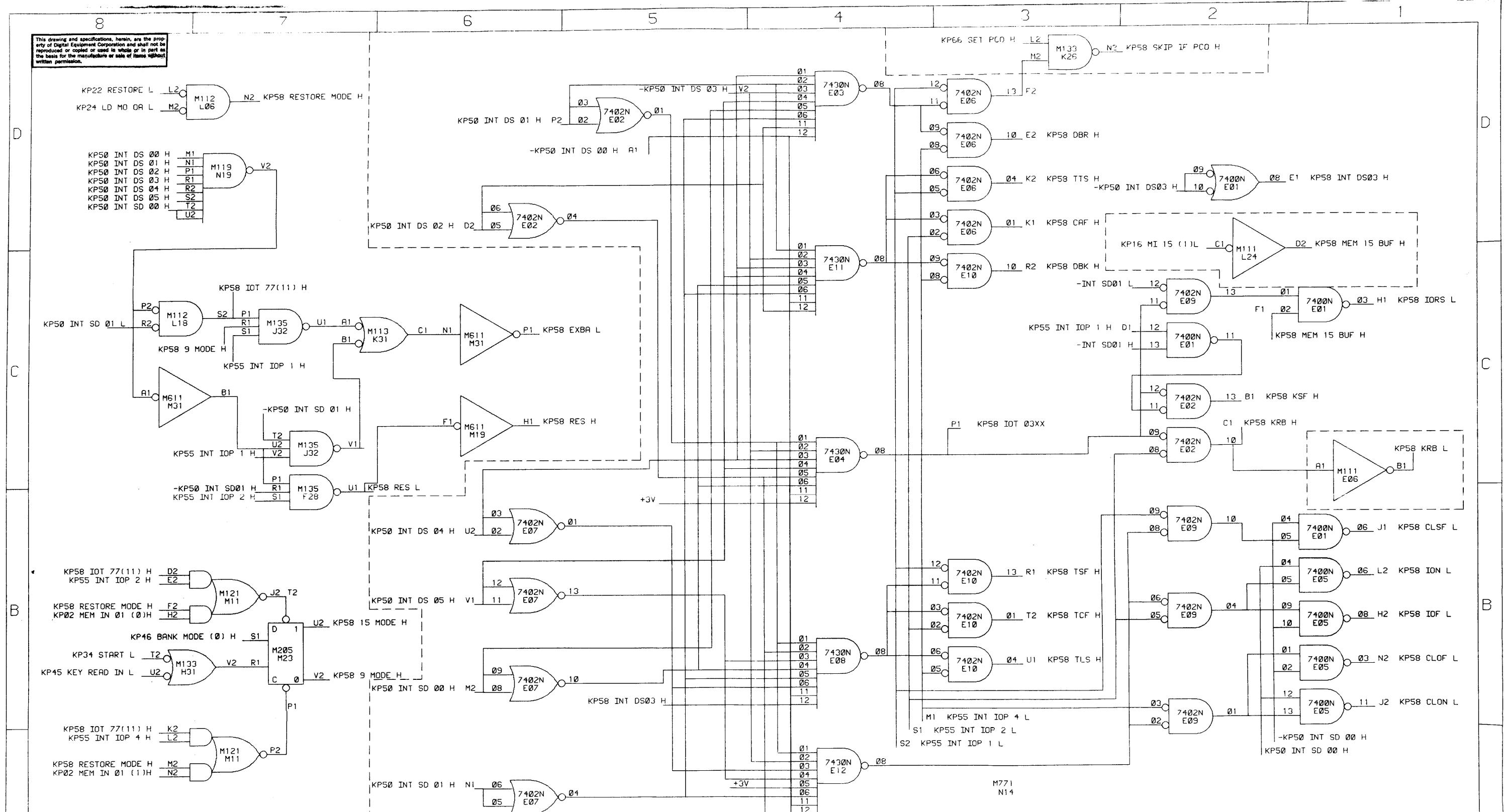


*NOTE:
1) K06 USED FOR POWER FAIL OPTION
2) L03+L05 USED FOR RTC OPTION

REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	H	111	KP15-00056	M

S. GOLDSBY 7/15/70
F. HUMANN 7/22/70
GH KP1-XXXXX
H LEGERE 3-6-70
F HUMANN 3-14-70
GH KP1-XXXXX
K WALCH 3/21/71/V
F HUMANN 12/11/72
PH AF 18-XXXXX
S SPANISH 11/1/72

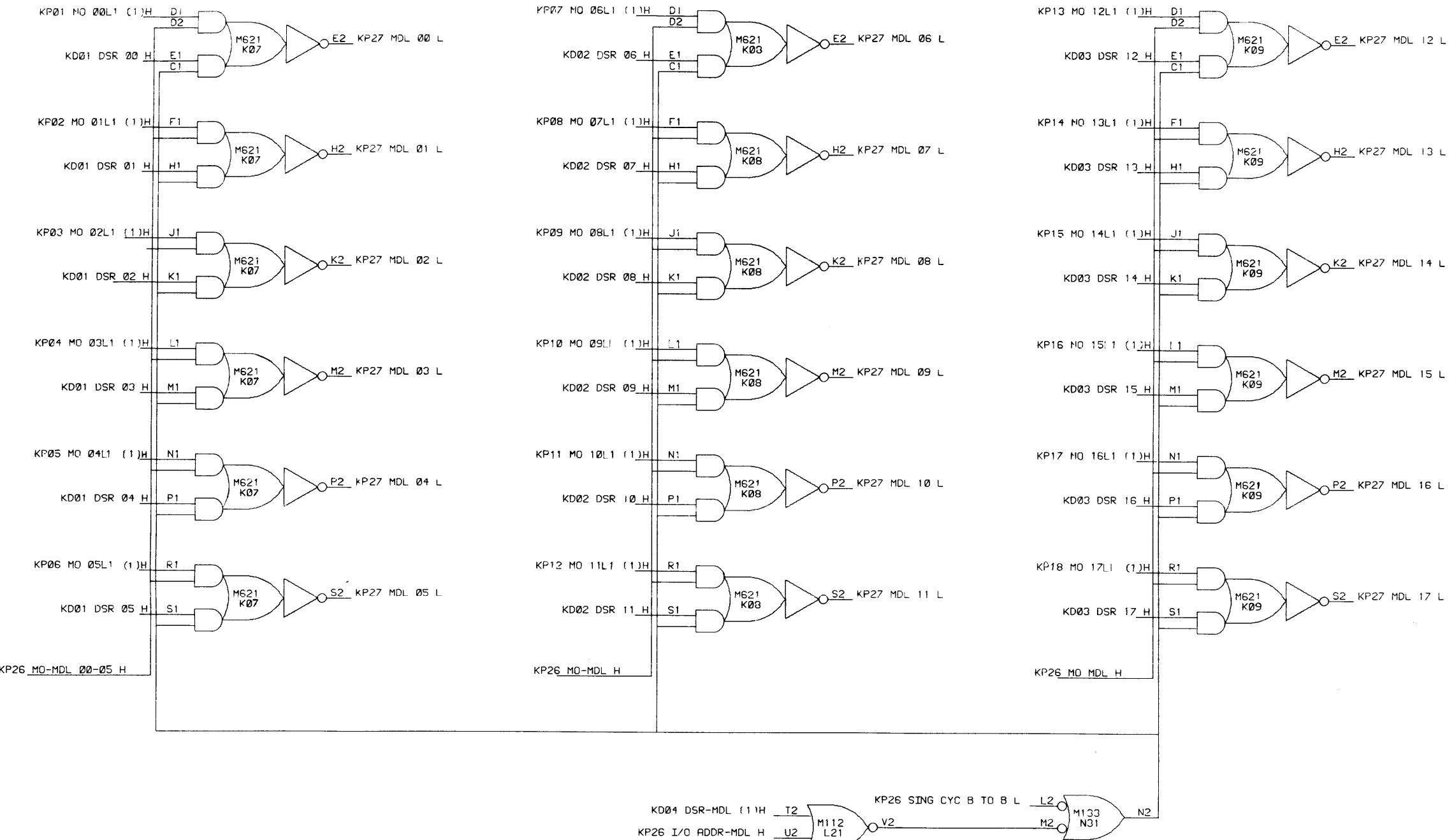
DRN. J FASSHAUER	DATE 10/77/69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D R COOK	DATE 10/77/69			
ENG P HUMANN	DATE 10/77/69	TITLE POWER FAIL AND R T CLOCK		
PROL ENG G BUTLER	DATE 10/77/69			
PROD F LASKEY	DATE 10/77/69			
FIRST USED ON KRC		SIZE	CODE	NUMBER
SCALE		D	BS	KP15-2-57
SHEET 1 OF 1	REV. M			
DIST.				



REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	D
S	GOLDSBY 7-15-70	
F	AUMANN 7-22-70	
GH	KP15-00046	E
K	WALSH 12/18/70	
F	AUMANN 12/18/70	
SH	KP15-00048	F
N	LEGERE 1/12/71	
F	AUMANN 1/12/71	
	KP15-00056	H
	C	
	Devin 6/14/71	

DRN. M. SCHURMAN	DATE 11-7-69	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. N. RHEAULT	DATE 11-7-69	
ENC. F. AUMANN	DATE 11-7-69	TITLE INTERNAL IOT DECODER
PROJ. ENG. G. BUTLER	DATE 11-7-69	
PROD. F. LASKEY	DATE 11-7-69	
FIRST USED ON		
KP15	SIZE/CODE D 36	NUMBER KP15 0 59
SCALE	REV.	
SHEET 1 OF 1	DIST.	

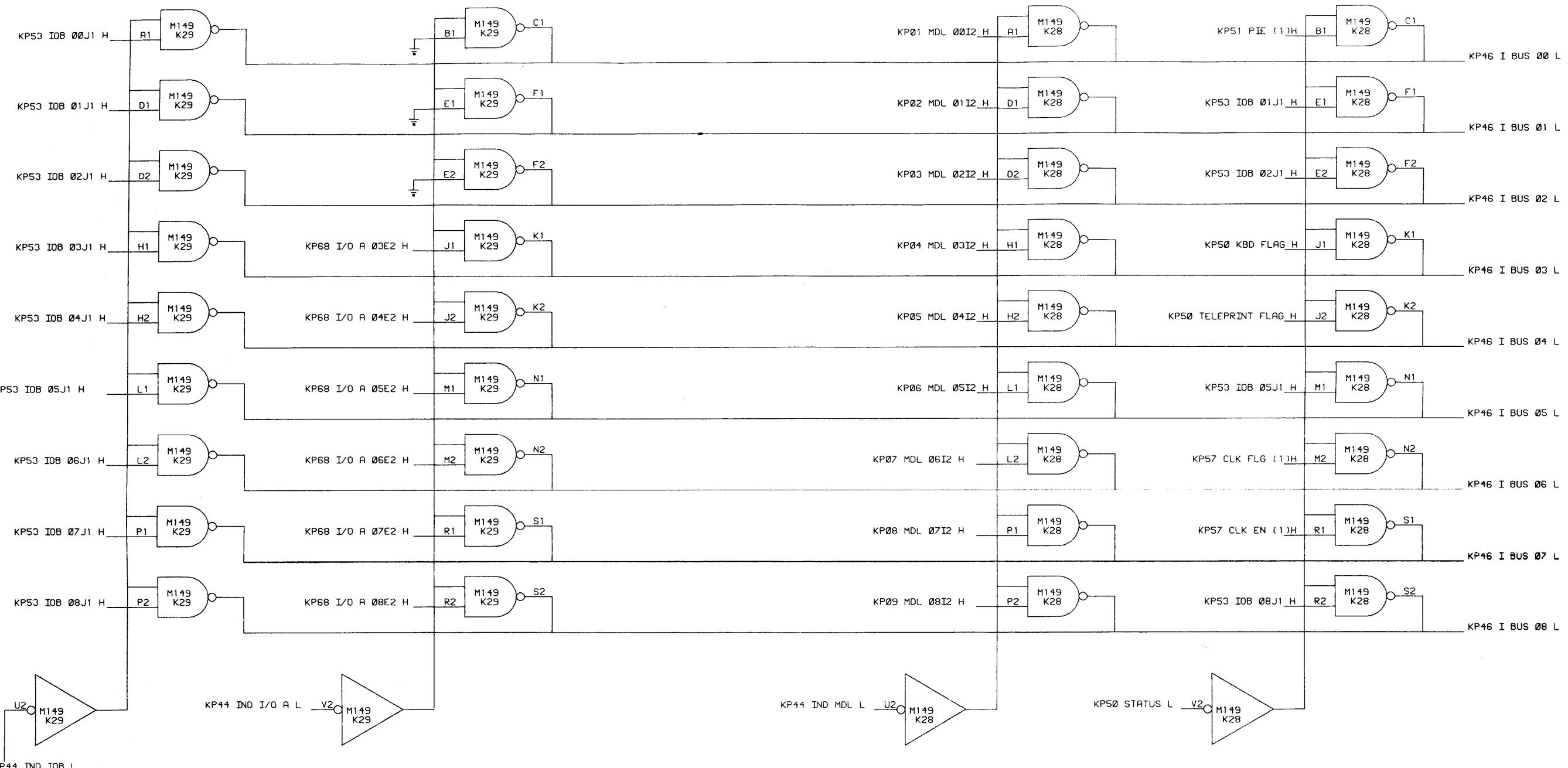
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DRN. M. SCHURMAN	DATE 11-7-69	digital EQUIPMENT CORPORATION
CHKD. N. PHEAULT	DATE 11-7-69	MAYNARD, MASSACHUSETTS
ENG. F. AUMANN	DATE 11-7-69	TITLE MDL DRIVER
PROJ. ENG. G. BUTLER	DATE 11-7-69	
PROD. F. LASKEY	DATE 11-7-69	
FIRST USED ON KP15	SIZE U CODE BS	NUMBER KP15-0-59
SCALE	REV. D	
SHEET 1 OF 1	DIST.	

8 7 6 5 4 3 2

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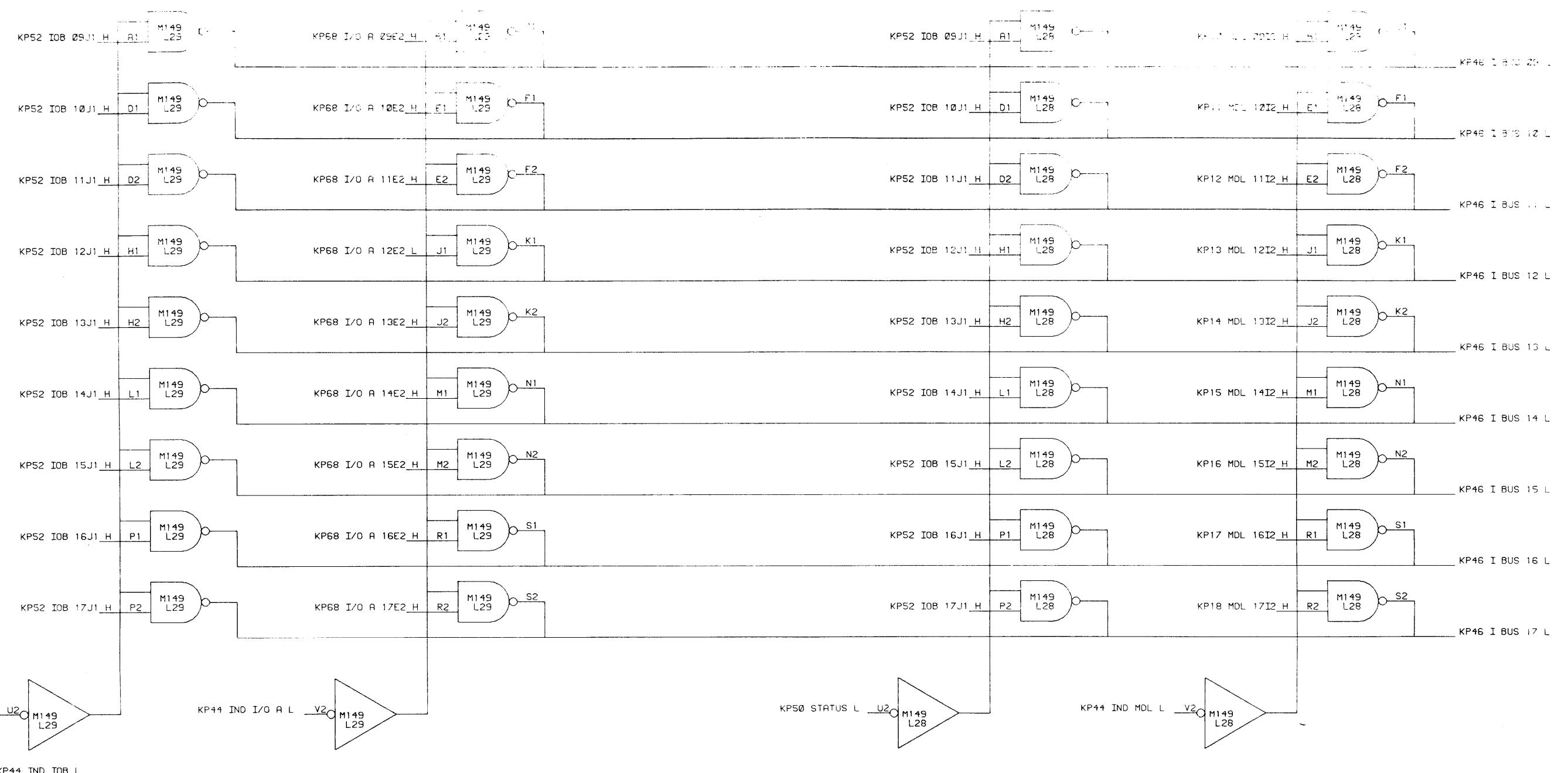


REVISIONS		
CHK	CHANGE NO.	REV.
ZH	KP15-00038	E

DRN.	DATE	EQUIPMENT
J. FASSHAUER	10/7/69	CORPORATION
CHK'D.	DATE	
R. COOK	10/7/69	
ENG.	DATE	
F. RUMANN	10/7/69	
PROJ. ENG.	DATE	
G. BUTLER	10/7/69	
PROD.	DATE	
F. LASKEY	10/7/69	
FIRST USED ON		TITLE
KP15		I BUS 00-08
SCALE	SIZE CODE	NUMBER
1	OF 1	D-BS KP15-0-60
DIST.	REV.	B

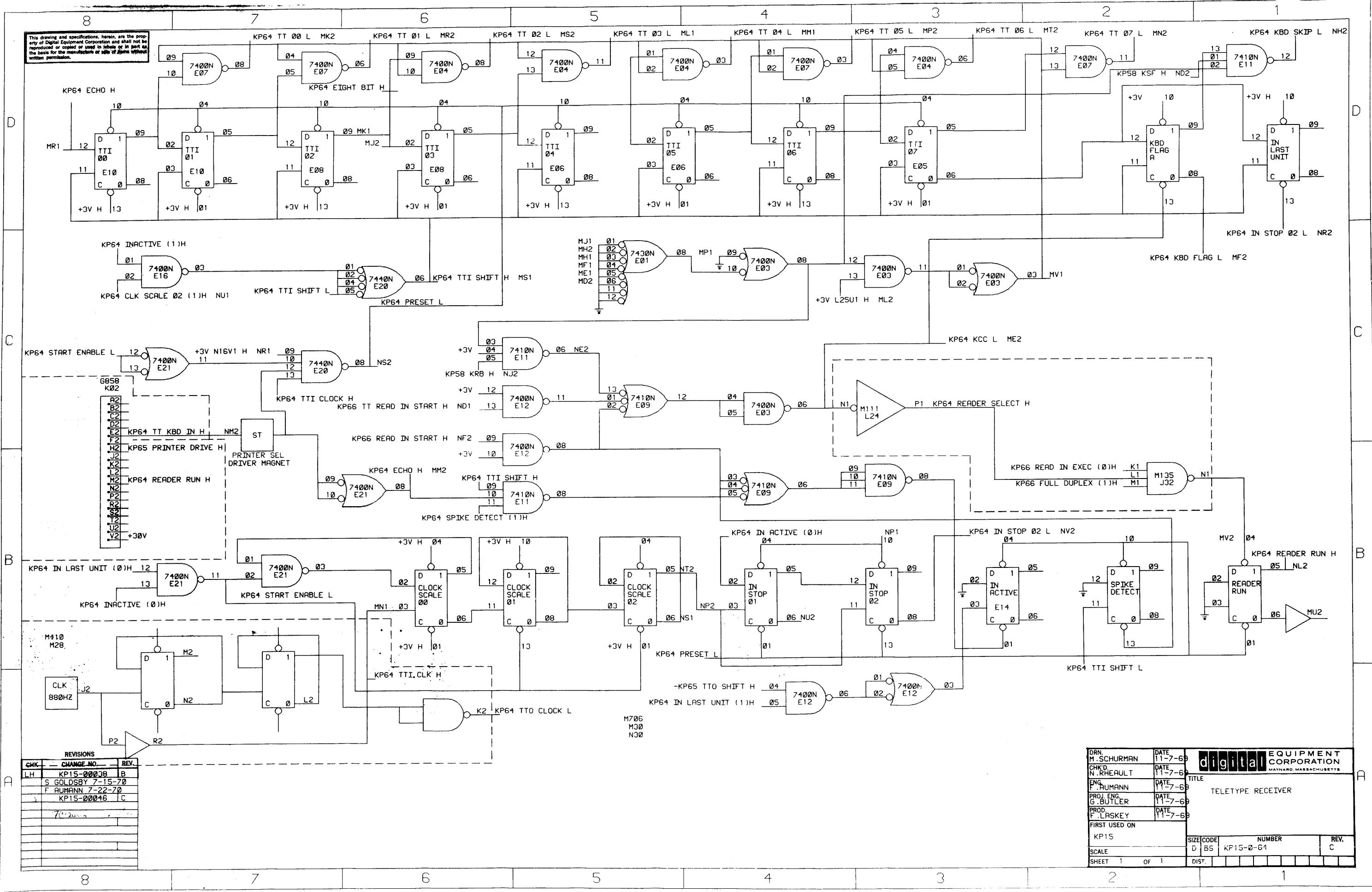
8 7 6 5 4 3 2 1

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REVISIONS		
CHK	CHANGE NO.	REV.
ZP	ZEP PC038	A

DRN	DATE	digital	EQUIPMENT CORPORATION
CHKD	DATE	MAYNARD, MASSACHUSETTS	
ENC	DATE	TITLE	
F ALMANA	7/1/70	I BUS 09-17	
PROJ. ENG.	DATE		
PROD.	DATE		
FIRST USED ON			
KP15	SIZE	NUMBER	REV.
SHEET 1 OF 1	D BS	KP15-C-02	A
DIST.			



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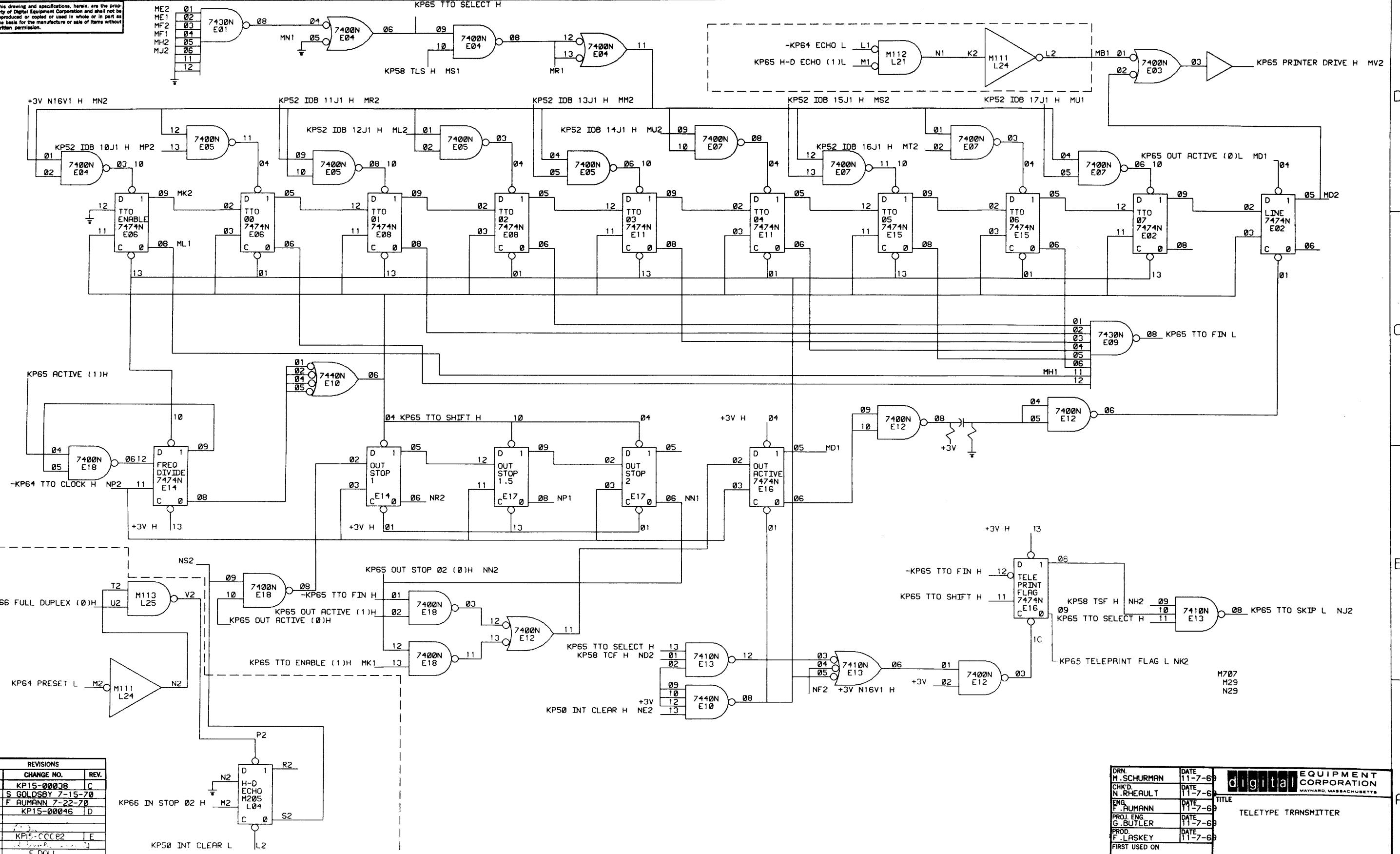
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3

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1

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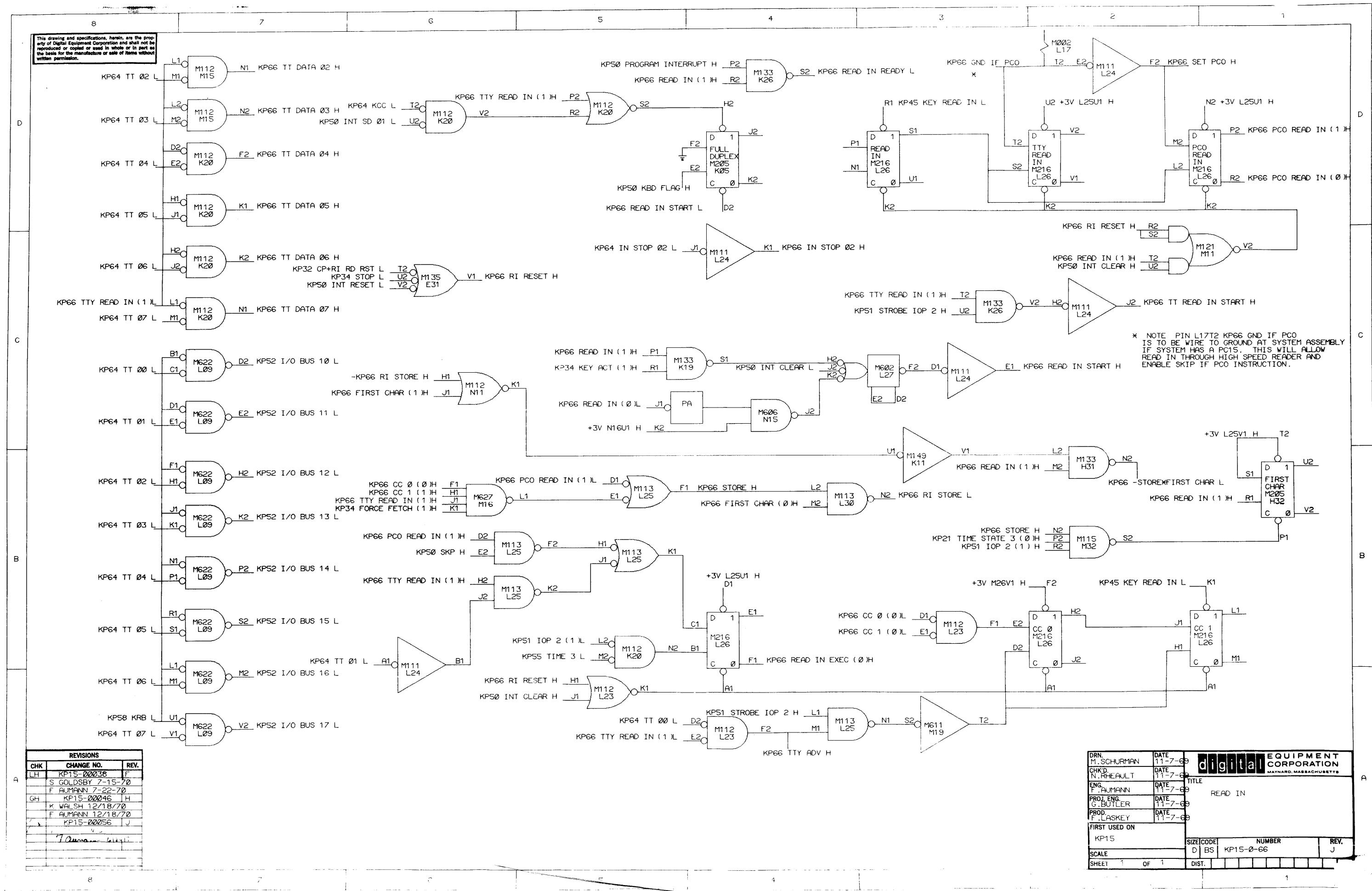
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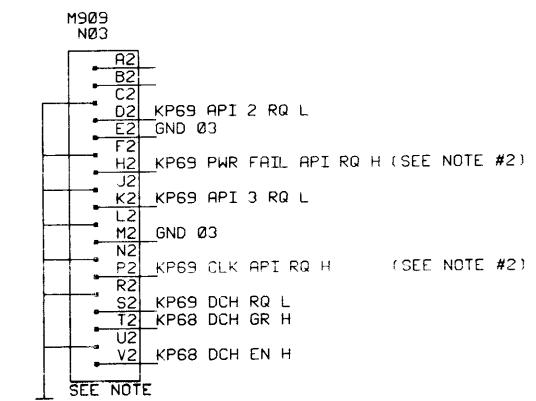
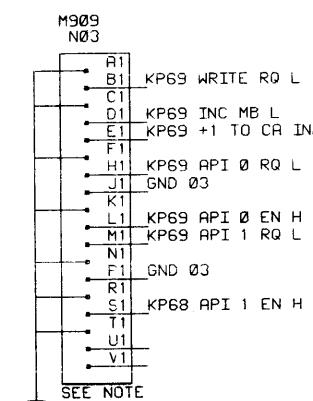
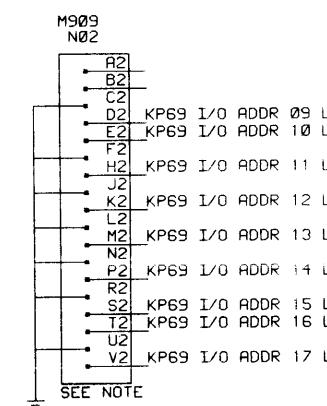
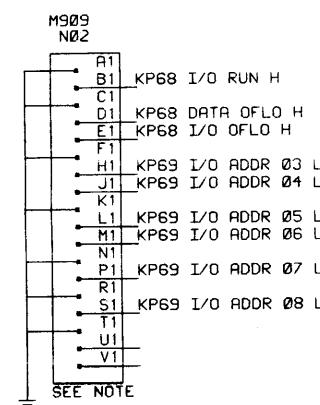
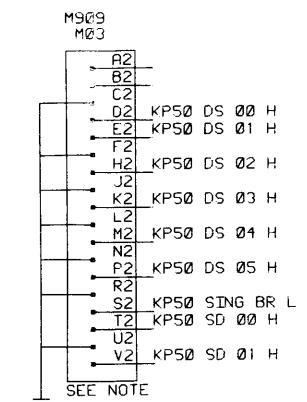
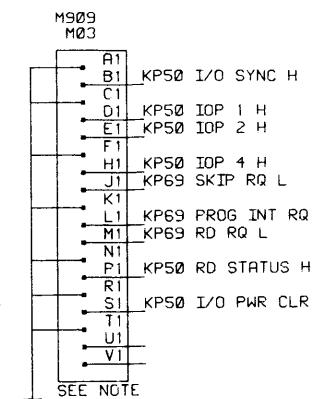
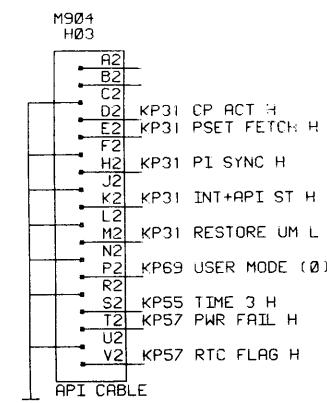
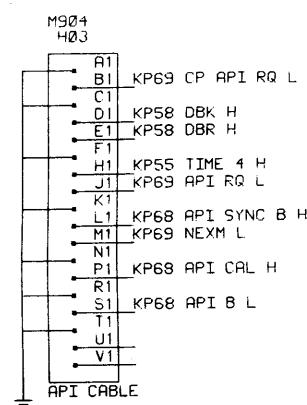
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2

1



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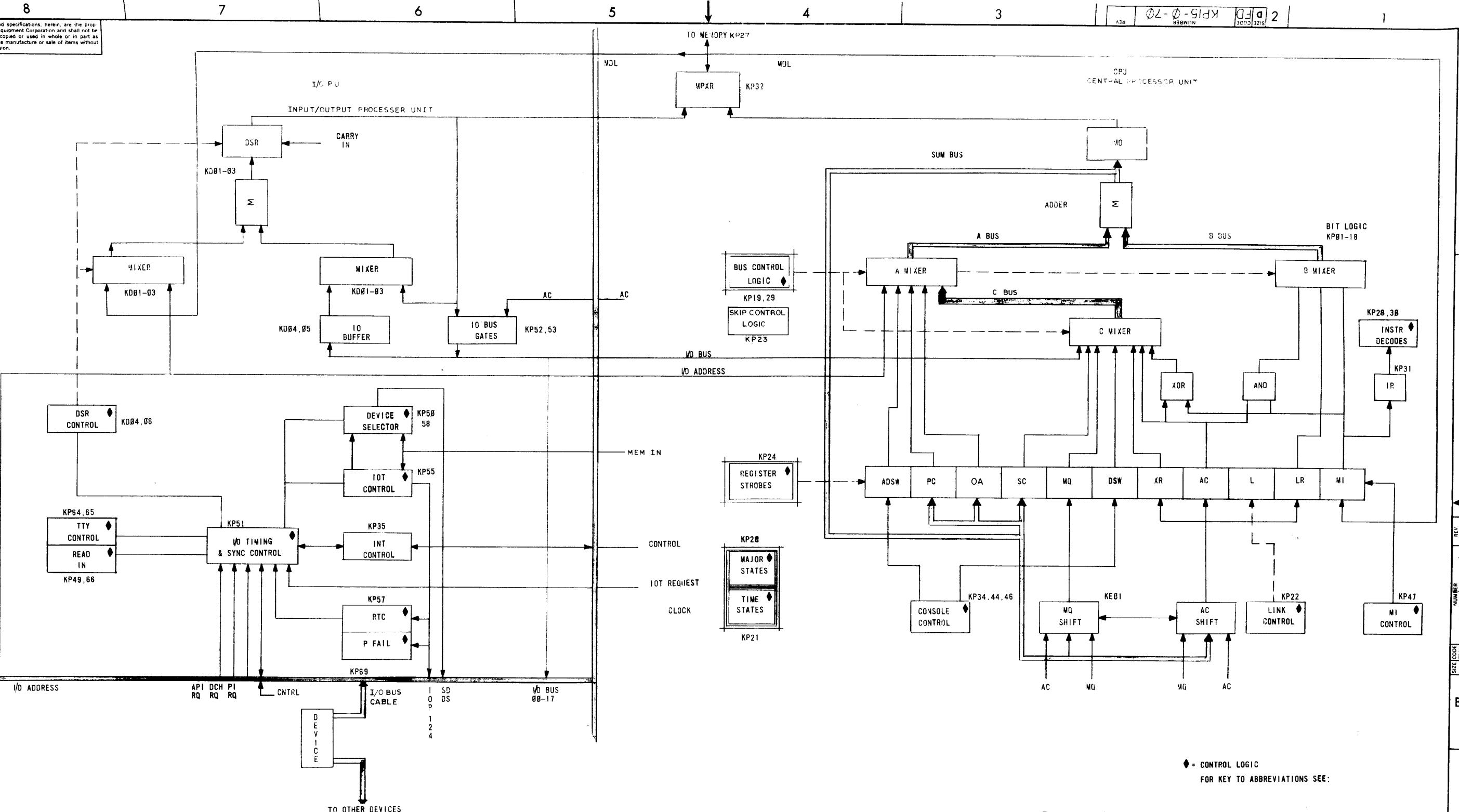
NOTE #1: M909 TERMINATOR BOARDS IN M,N02.03 ARE USED IN PLACE OF THE M912 I/O BUS CABLE CONNECTOR WHEN NO I/O BUS CABLE IS INCLUDED IN THE SYSTEM. IN SYSTEM USING AN I/O BUS CABLE THE M909'S MUST BE PLACED IN THE LAST DEVICE ON THE I/O BUS.

NOTE #2: IF API (KA15) IS PART OF SYSTEM,
SIGNALS ON N03H2 AND N03P2 ARE RESPECTIVELY
KP69 API 2 EN H AND KP69 API 3 EN H.

REVISIONS		
CHK	CHANGE NO.	REV.
LH	KP15-00038	E
	S GOLDSBY 7-15-70	
	F AUMANN 7-22-70	
GH	KP15-00046	F
	K WALSH 12/18/70	
	F AUMANN 12/19/70	
GH	KP15-00048	H
	N LEGERE 1/12/71	
	F AUMANN 1/12/71	
	KP15-00056	L

DRN. M. SCHURMAN	DATE 11-7-69	digital EQUIPMENT CORPORATION	
CHKD. N. RHEAULT	DATE 11-7-69		
ENG. F. AUMANN	DATE 11-7-69	TITLE I/O BUS CABLE	
PROJ. ENG. G. BUTLER	DATE 11-7-69		
PROD. F. LASKEY	DATE 11-7-69		
FIRST USED ON KP15	SIZE CODE D IC	NUMBER KP15-0-69	REV. J
SCALE SHEET 1 OF 1	DIST.		

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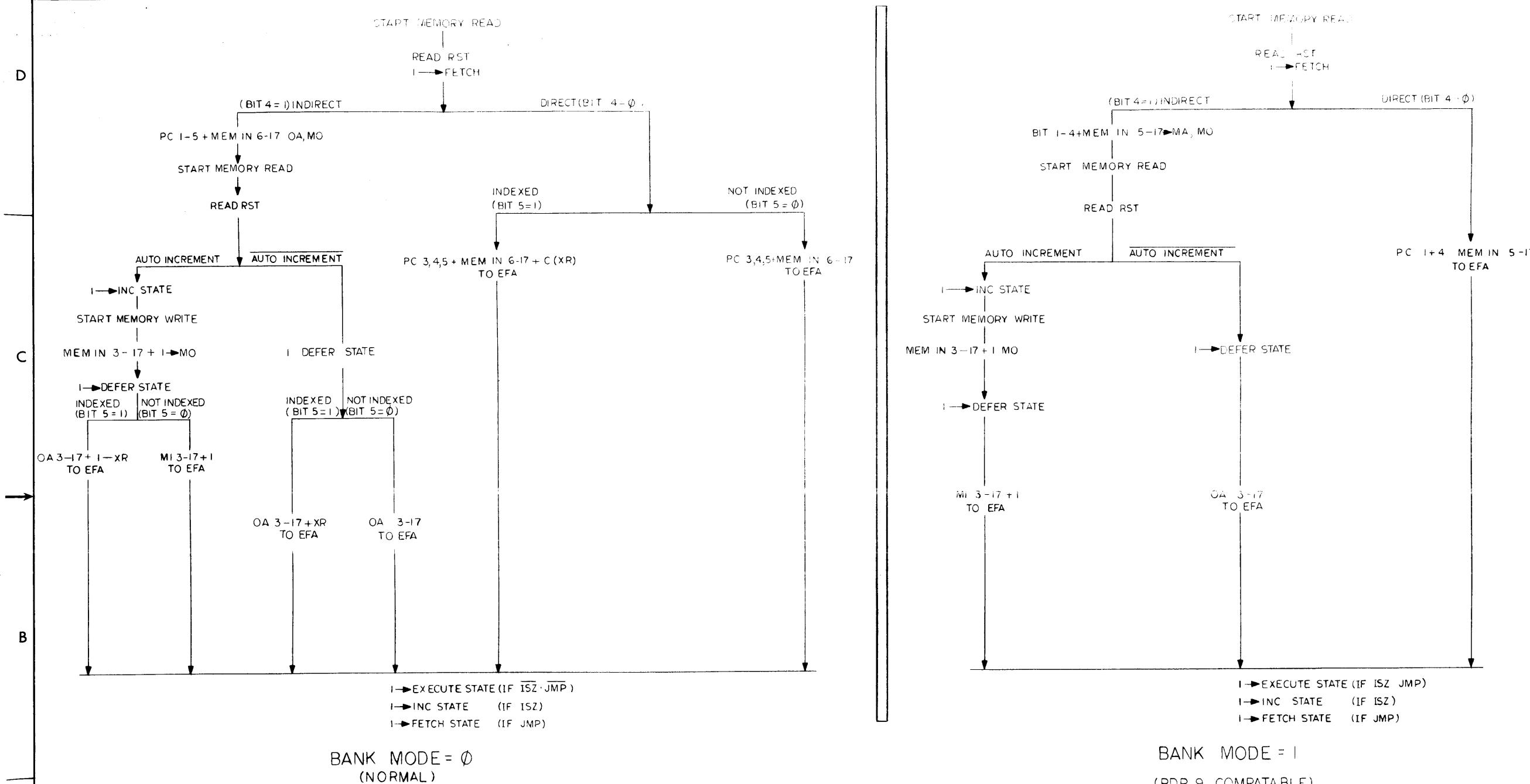
FIRST USED ON OPTION/MODEL PDP15		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
DRN:	Kent Glaser	DATE	10/16/68	digital	EQUIPMENT CORPORATION
CHK'D:	P. H. K.	DATE	3/25/70		MAYNARD MASSACHUSETTS
ENG:	TC	DATE	3/16/70		TITLE
PROJ-ENG:		DATE	3/16/70		
PROD:		DATE	3/16/70		
NEXT HIGHER ASSY		A-ML-KPI5-0			
FINISH:	++	SCALE	— + —	SHEET 1 OF 1	DIST.
SIZE/CODE DFD		NUMBER	KPI5-0-70	REV	

KPI5 BLOCK DIAGRAM & PRINT KEY

REVISIONS
CHANGE NO.
REV
C
H
K

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8 7 6 5 4 3 2 1
REV. 2 SIZE CODE KP15-0-71 NUMBER D



QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FIRST USED ON OPTION/MODEL PDP15 DO NOT SCALE DRAWING DRN. 117-100 DATE 11-1-85 UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$ FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS / MATERIAL — NEXT HIGHER ASSY A-MI-KP15-4 FINISH — SCALE — SHEET 1 OF 1 DIST. —			
EQUIPMENT CORPORATION digital MAYNARD, MASSACHUSETTS TITLE PDP15 ADDRESS CALCULATION FLOW CHART SIZE CODE DFD NUMBER KP15-0-71 REV.			

A
REV.
CHANGE NO.
CHK
DEC FORM NO. 800
DRD 100

D

C

B
REV.
SIZE CODE
DFD
NUMBER
KP15-0-71

A

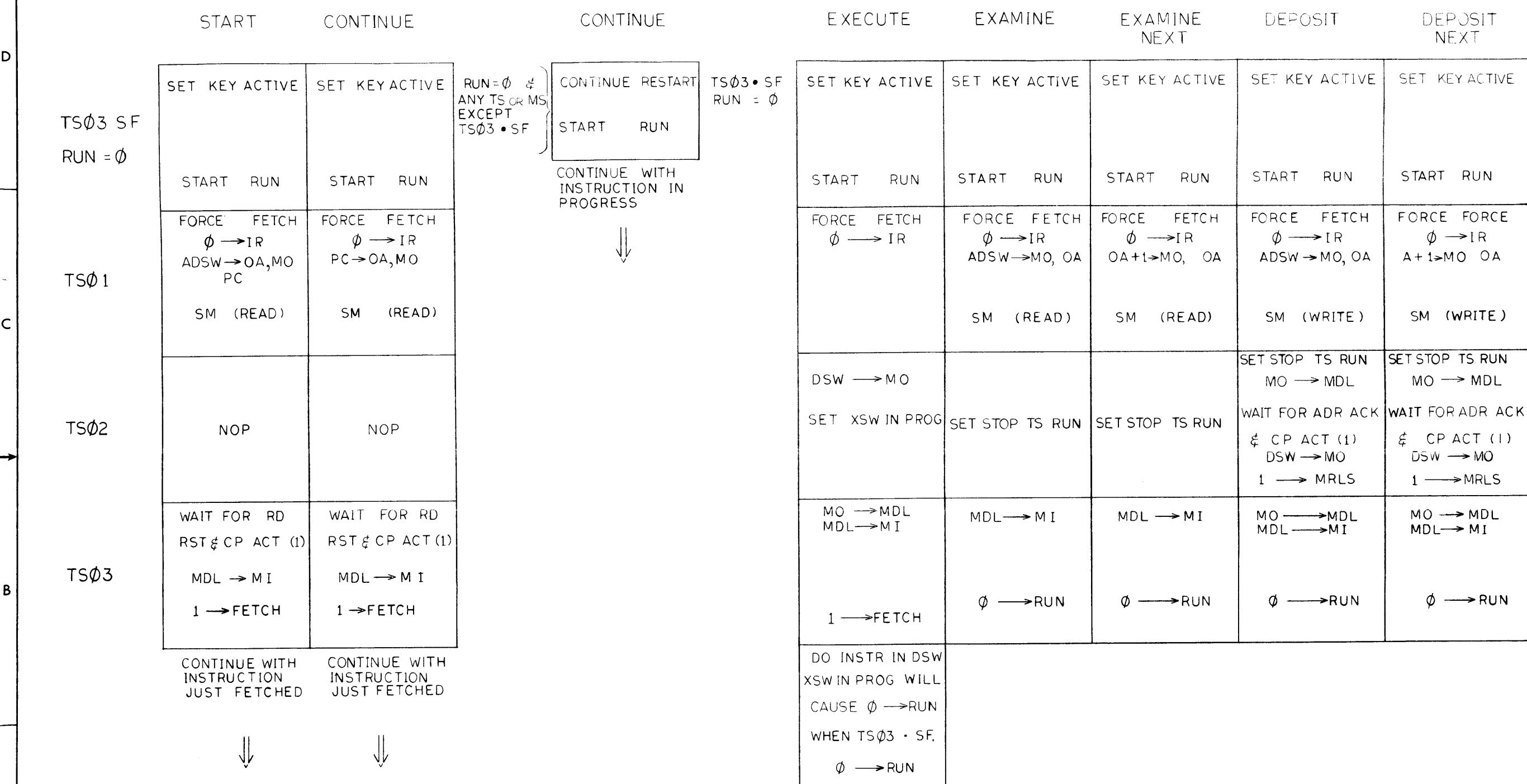
1

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CABLE LOC.	TIME	KP45 STROBE ZERO L																KP45 STROBE ONE L																KP45 IND MEM IN L															
		STROBE ZERO		STROBE ONE		IND AC L		IND PC L		IND OA L		IND MQ L		IND PL/SC L		IND XR L		IND EAE L		IND I/OB L		IND MO L		IND ABU L		IND BBUL		IND CBUL		IND SHFT L		IND IOA L		IND SUM L		IND MMA L		IND MMB L		IND MST L		IND MEM IN L							
REGISTER	STROBE	IND AC	IND PC	IND OA	IND MQ	IND PL/SC	IND XR	IND LR	IND EAE	DSR	IND I/OB	STATUS	IND MO	IND A BUS	IND B BUS	IND C BUS	IND SHFT	IND I/OA	IND SUM	IND MAINT	IND MAINT 2	IND MDL	IND MMA	IND MMB	IND MST	IND MEM	STROBE TWO	BANK 1 AVA	CF PULSE	AC AVA.																			
HI	I BUS 00	LINK	AC00	PC00	OA00	MQ00	REQ00	XR00	LR00	A00H	DSR00	I/OB00	PIE	MO00	A BUS 00	B BUS 00	C BUS 00	SHFT00	I/OA00	SUM00	D00	MDL00	MA00	MB00	ADR ACK	MEM IN 00	CONT	SING TIME																					
J1	I BUS 01	PLEN 05	AC01	PC01	OA01	MQ01	REQ01	XR01	LR01	B01H	DSR01	I/OB01	IOB01	MO01	A BUS 01	B BUS 01	C BUS 01	SHFT01	I/OA01	SUM01	D01	MULT SHIFT	MDL01	MA01	MB01	BUS EN	MEM IN 01	RE RESET	SING STEP DSW 00																				
K1	I BUS 02	PLEN 06	AC02	PC02	OA02	MQ02	REQ02	XR02	LR02	C02H	DSR02	I/OB02	IOB02	MO02	A BUS 02	B BUS 02	C BUS 02	SHFT02	I/OA02	SUM02	D02	RAL	MDL02	MA02	MB02	RD RST	MEM IN 02	EXAM THIS	SING INST DSW 01																				
L1	I BUS 03	PLEN 07	AC03	PC03	OA03	MQ03	REQ03	XR03	LR03	D03H	DSR03	I/OB03	KBD FLAG	MO03	A BUS 03	B BUS 03	C BUS 03	SHFT03	I/OA03	SUM03	D03	RAR	MDL03	MA03	MB03	WREN	MEM IN 03	START	ADR DSW SW03 03																				
M1	I BUS 04	API EN	AC04	PC04	OA04	MQ04	REQ04	XR04	LR04	E04H	DSR04	I/OB04	TELE-PRINTER FLAG	MO04	A BUS 04	B BUS 04	C BUS 04	SHFT04	I/OA04	SUM04	D04	RTL	MDL04	MA04	MB04	MRLS ACK	MEM IN 04	ADR DSW SW04 04																					
N1	I BUS 05	PI	AC05	PC05	OA05	MQ05	REQ05	XR05	LR05	F05H	DSR05	I/OB05	IOB05	MO05	A BUS 05	B BUS 05	C BUS 05	SHFT05	I/OA05	SUM05	D05	RTR	MDL05	MA05	MB05	MEM IDLE	MEM IN 05	RSI	ADR DSW SW05 05																				
P1	I BUS 06	PI EN	AC06	PC06	OA06	MQ06	REQ06	XR06	LR06	-SU	DSR06	I/OB06	CLK FLAG	MO06	A BUS 06	B BUS 06	C BUS 06	SHFT06	I/OA06	SUM06	D06	NO SHIFT	MDL06	MA06	MB06	MEM IN 06	MEM IN 06	ADR DSW SW06 06																					
R1	I BUS 07	AC07	PC07	OA07	MQ07	REQ07	XR07	LR07	-MUL	DSR07	I/OB07	CLK EN	MO07	A BUS 07	B BUS 07	C BUS 07	SHFT07	I/OA07	SUM07	D07	SW	MDL07	MA07	MB07	MDL07	MEM IN 07	RS2	ADR DSW SW07 07																					
U1	I BUS 08	15 MODE	AC08	PC08	OA08	MQ08		XR08	LR08	- DIV SHIFT	DSR08	I/OB08	IOB08	MO08	A BUS 08	B BUS 08	C BUS 08	SHFT08	I/OA08	SUM08	A08	C BUS LR	MDL08	MA08	MB08	MDL08	MEM IN 08	RS3	ADR DSW SW08 08																				
V1	I BUS 09		AC09	PC09	OA09	MQ09		XR09	LR09	-EAE NORMS	DSR09	I/OB09	IOB09	MO09	A BUS 09	B BUS 09	C BUS 09	SHFT09	I/OA09	SUM09	A09	-CBUS XR	MDL09	MA09	MB09	MEM IN 09	RS4	ADR DSW SW09 09																					
D2	I BUS 10	FETCH	AC10	PC10	OA10	MQ10		XRI0	LR10	-EAE LRS	DSR10	I/OB10	IOB10	MO10	A BUS 10	B BUS 10	C BUS 10	SHFT10	I/OA10	SUM10	A10	X	MDL10	MA10	MB10	MEM IN 10	RS5	ADR DSW SW10 10																					
E2	I BUS 11	INC	AC11	PC11	OA11	MQ11	SC OFLO	XRI11	LR11	-EAE LLS	DSR11	I/OB11	IOB11	MO11	A BUS 11	B BUS 11	C BUS 11	SHFT11	I/OA11	SUM11	READ 11	IN	MDL11	MA11	MB11	RD CON	MEM IN 11	RS6	ADR DSW SW11 11																				
F2	I BUS 12	DEFER	AC12	PC12	OA12	MQ12	SC12	XRI12	LR12	-EAE ACLS	DSR12	I/OB12	IOB12	MO12	A BUS 12	B BUS 12	C BUS 12	SHFT12	I/OA12	SUM12	A12	SL6	MDL12	MA12	MB12	WR CON	MEM IN 12	RS7	ADR DSW SW12 12																				
H2	I BUS 13	EAE	AC13	PC13	OA13	MQ13	SC13	XRI13	LR13	-EAE SIGN	DSR13	I/OB13	IOB13	MO13	A BUS 13	B BUS 13	C BUS 13	SHFT13	I/OA13	SUM13	A13	I/OAD XOR 13	MDL13	MA13	MB13	MEM IN 13	RS8	ADR DSW SW13 13																					
J2	I BUS 14	EXEC	AC14	PC14	OA14	MQ14	SC14	XRI14	LR14	-P/Q	DSR14	I/OB14	IOB14	MO14	A BUS 14	B BUS 14	C BUS 14	SHFT14	I/OA14	SUM14	A14	ADR SW ACT 14	MDL14	MA14	MB14	PAR MB	MEM IN 14	RS9	ADR DSW SW14 14																				
K2	I BUS 15	TSI	AC15	PC15	OA15	MQ15	SC15	XRI15	LR15	-DIV OFLO	DSR15	I/OB15	IOB15	MO15	A BUS 15	B BUS 15	C BUS 15	SHFT15	I/OA15	SUM15	A15	START 15	MDL15	MA15	MB15	PAR EXIST	MEM IN 15	RS10	ADR DSW SW15 15																				
L2	I BUS 16	TS2	AC16	PC16	OA16	MQ16	SC16	XRI16	LR16	-FULL	DSR16	I/OB16	IOB16	MO16	A BUS 16	B BUS 16	C BUS 16	SHFT16	I/OA16	SUM16	DATA 16	IN	MDL16	MA16	MB16	MDL16	MEM IN 16	RS11	ADR DSW SW16 16																				
M2	I BUS 17	TS3	AC17	PC17	OA17	MQ17	SC17	XRI17	LR17	-EAE NOSFT	DSR17	I/OB17	IOB17	MO17	A BUS 17	B BUS 17	C BUS 17	SHFT17	I/OA17	SUM17	DATA 17	OUT	MDL17	MA17	MB17	MEM IN 17	RS12																						

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8 7 6 5 4 3 2 1



FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP15					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS IN INCHES					
TOLERANCES					
DECIMALS FRACTIONS ANGLES					
± .005 ± 1/64 ± 0°30'					
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL					
NET HIGHER ASSY A-ML-KP15-Ø					
FINISH					
SCALE	++	SHEET 1 OF 1	DIST.		

REV. D F D K P 15 - Ø - 73

KEY FLOW

REVISIONS
CHANGE NO.
REV.
CHK

DEC FORM NO
DRAFT 102A

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4

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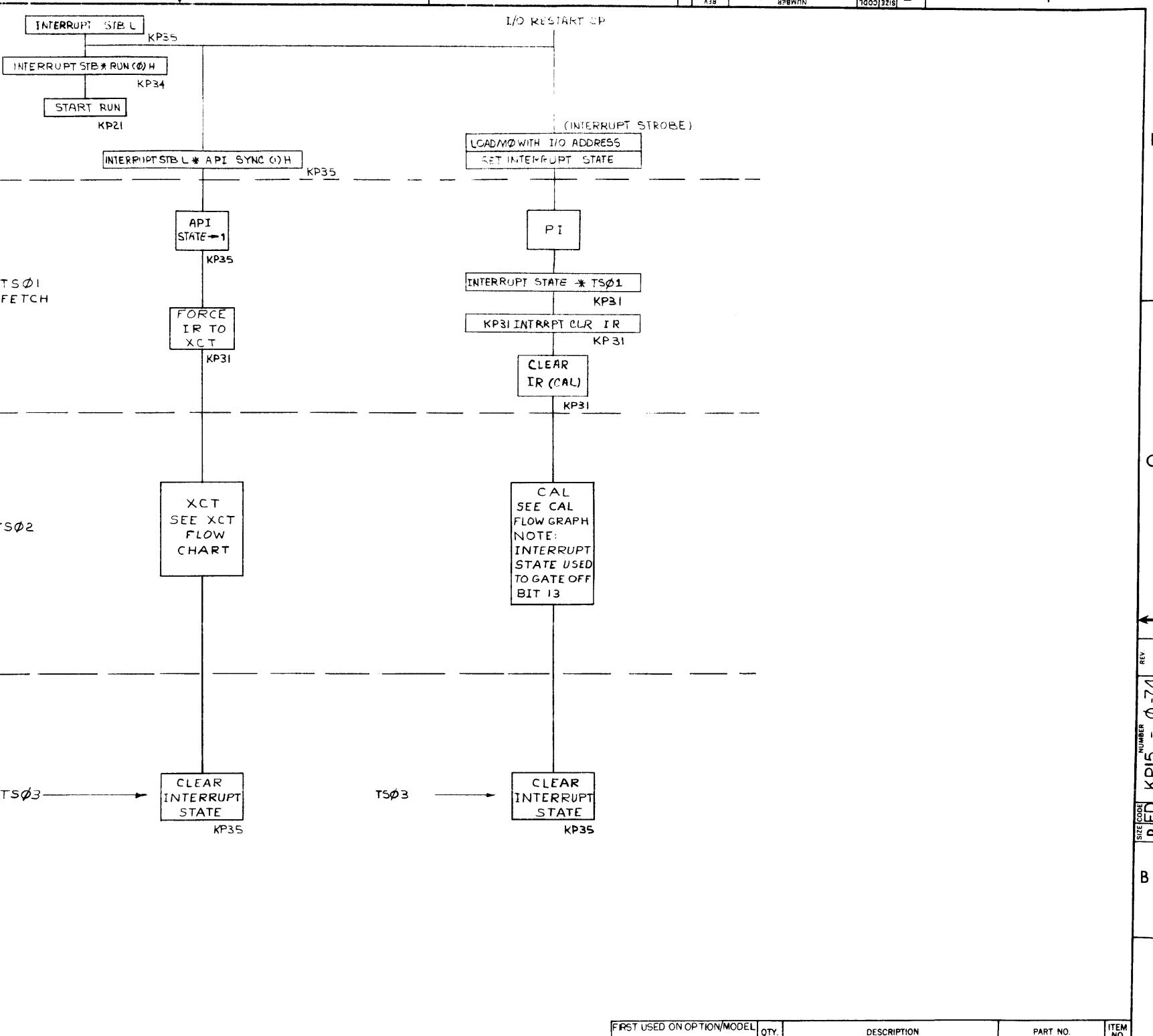
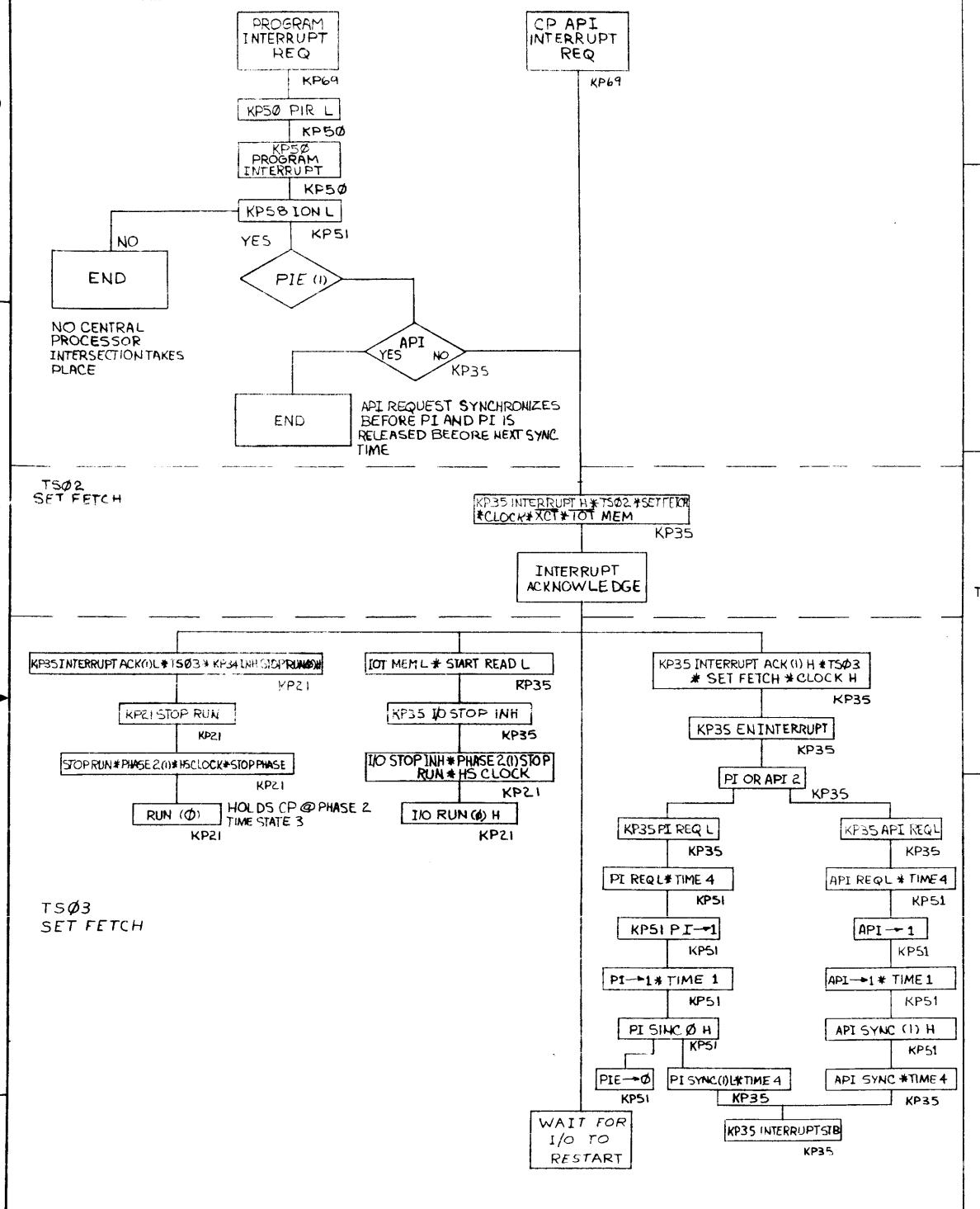
D

C

B

A

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FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DRN	1	D-769		
UNLESS OTHERWISE SPECIFIED	CHD	1	D-769		
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS FRACTIONS ANGLES					
$\pm .005$ $\pm 1/64$ $\pm 0^\circ 30'$					
FINAL SURFACE QUALITY					
REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL	+				
NEXT HIGHER ASSY					
A-ML- KPI5-0					
FINISH	++				
SCALE NONE					
SHEET 1 OF 1					
DIST.					

EQUIPMENT CORPORATION
digital
MAYNARD, MASSACHUSETTS

INTERRUPT FLOW GRAPH

SIZE CODE: D F D KPI5 - 0 - 74 REV. A

REVISIONS
CHANGE NO.
REV.
CIRK

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8

7

6

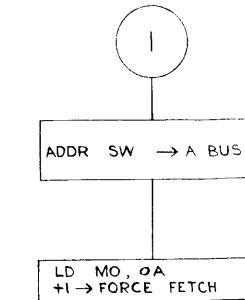
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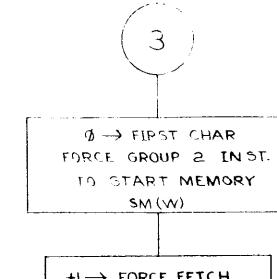
3

1

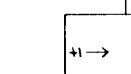
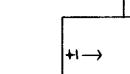
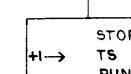
TS01



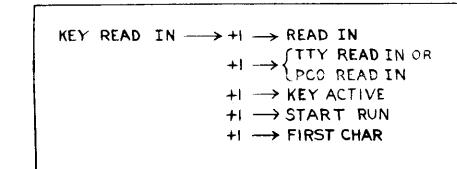
2



TS02



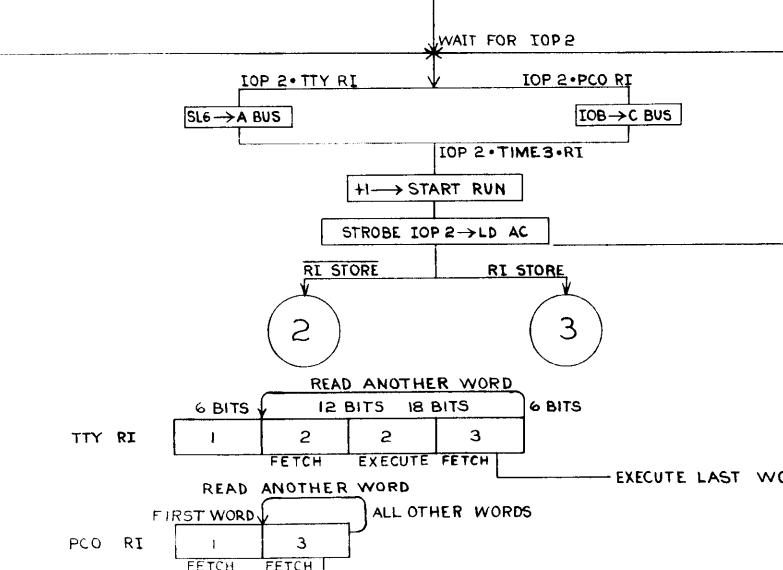
TS03



NOTES:

1. RI EXECUTE SET BY (PCO RI+SKIP) V (TTY RI+HOLE7)
2. RI STORE = FIRST CHAR -[PCO RI V(TTY RI+THIRD CHAR)]

1



FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
PD15				
UNLESS OTHERWISE SPECIFIED	DRN	DATE		
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE		
DIMENSIONS IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
$\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A-ML- KP15-Ø				
FINISH	SCALE			
	SHEET	1 OF 1	DIST.	
	SIZE CODE	NUMBER	REV.	
D/F/D	KP15-Ø-75			

READ IN
FLOW

REVISIONS
CHANGE NO.
CHK

DEC FORM NO
DD FORM 102A

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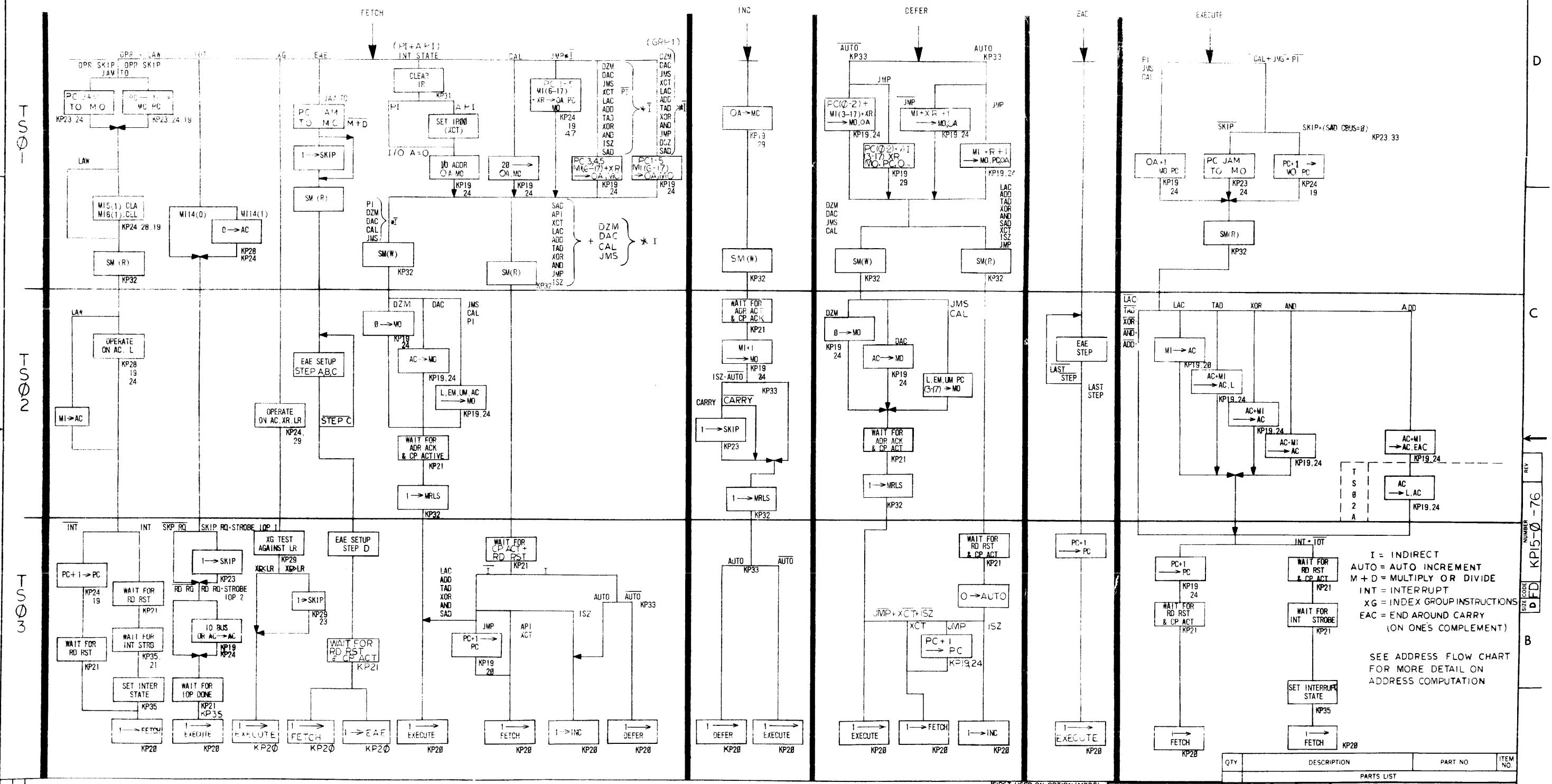
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FIRST USED ON OPTION/MODEL
PDP15

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES

TOLERANCES
DECIMALS FRACTIONS ANGLES
= .005 .001 .64 - 3°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP
CORNERS

MATERIAL

++

NEXT HIGHER ASSY

A-MIL-KP15-Ø

SIZE/CODE

D/F/D

NUMBER

KP15-Ø-76

REV.

EQUIPMENT CORPORATION
DIGITAL
CAMBRIDGE MASSACHUSETTS

TITLE

INSTRUCTION
FLOW CHART

FINISH

++

SCALE

++

SHEET

1

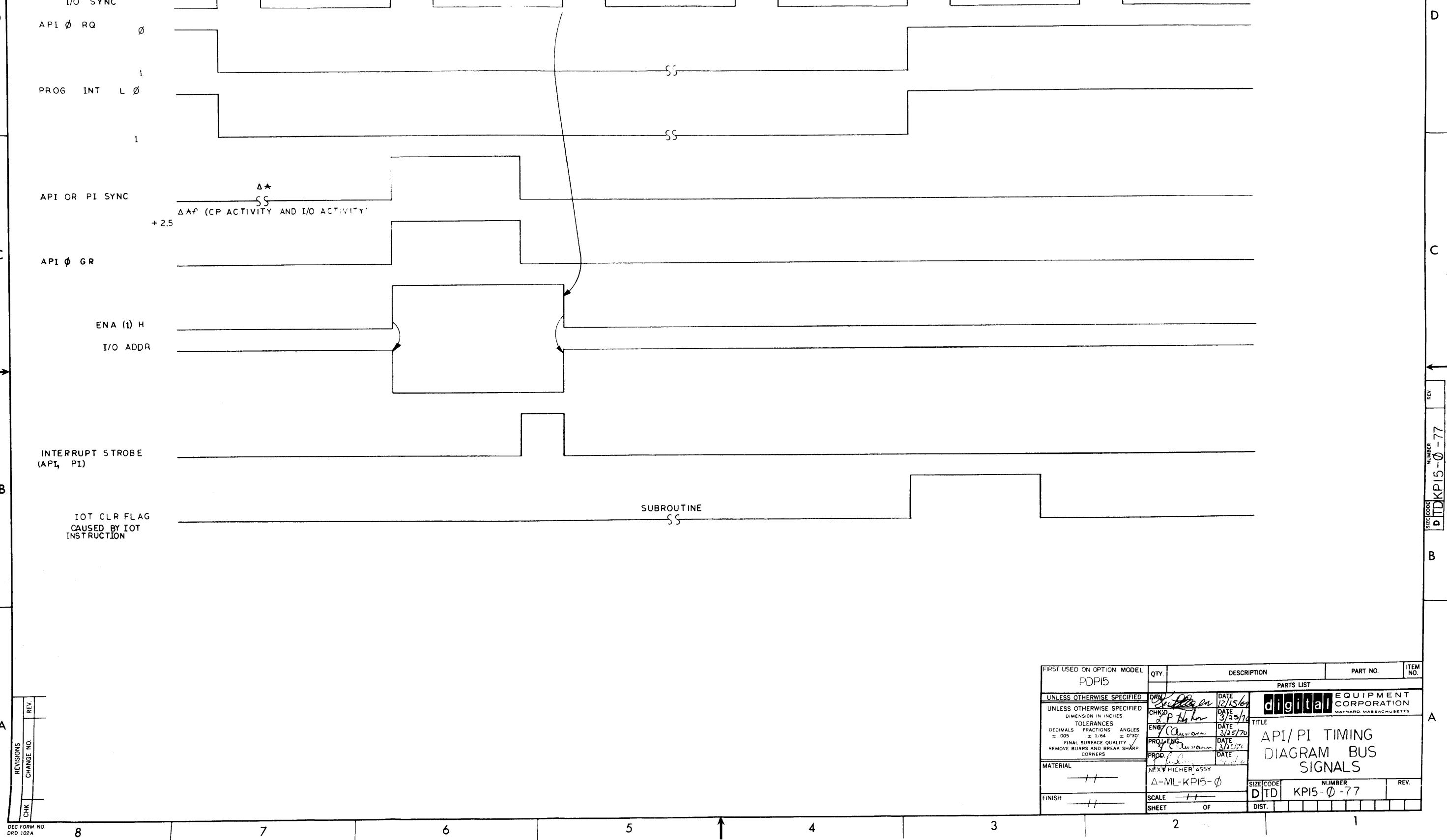
OF 1

DIST.

REVISIONS
CHANGE NO.
REV.
CHK.

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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REV. A

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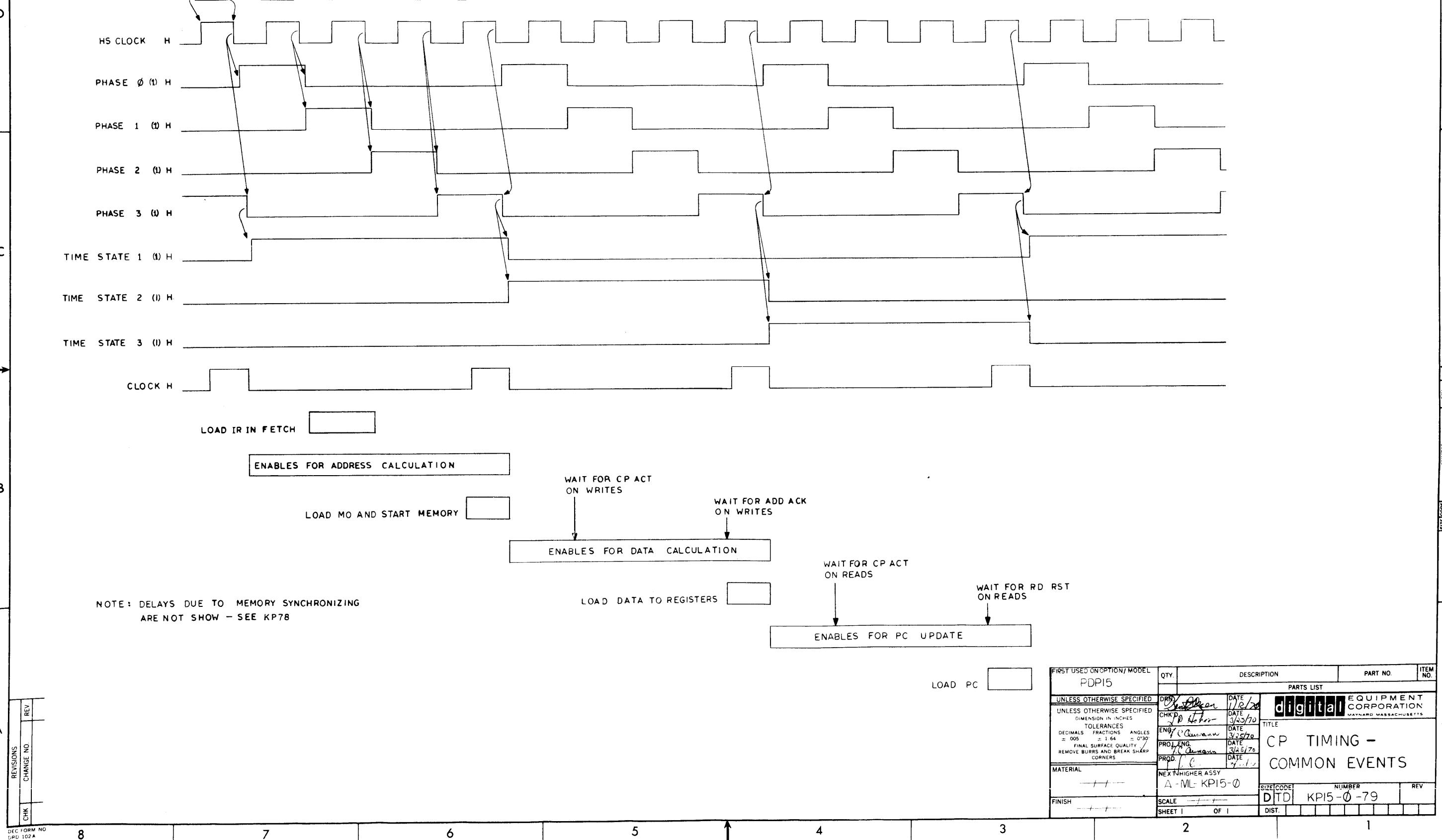
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8 7 6 5 4 3 2 1

SIZE CODE

KP15-0-79

REV



REVISIONS	REV
CHANGE NO	
CHK	

DEC FORM NO
DPD 102A

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP15				
UNLESS OTHERWISE SPECIFIED	DRA	<i>J. C. O'Brien</i>	DATE	1/16/70
UNLESS OTHERWISE SPECIFIED	CHK'D	<i>J. P. Hoban</i>	DATE	3/5/70
DIMENSIONS IN INCHES				
TOLERANCES	ENG	<i>J. C. O'Brien</i>	DATE	3/5/70
DECIMALS FRACTIONS ANGLES	PROL. ENG.	<i>J. C. O'Brien</i>	DATE	3/5/70
= .005 ± 1.64 ± 0°30'	PROD.	<i>J. C. O'Brien</i>	DATE	3/5/70
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE			
	SHEET 1 OF 1			

CP TIMING -
COMMON EVENTS

SIZE CODE
D TD
NUMBER
KP15-0-79
REV

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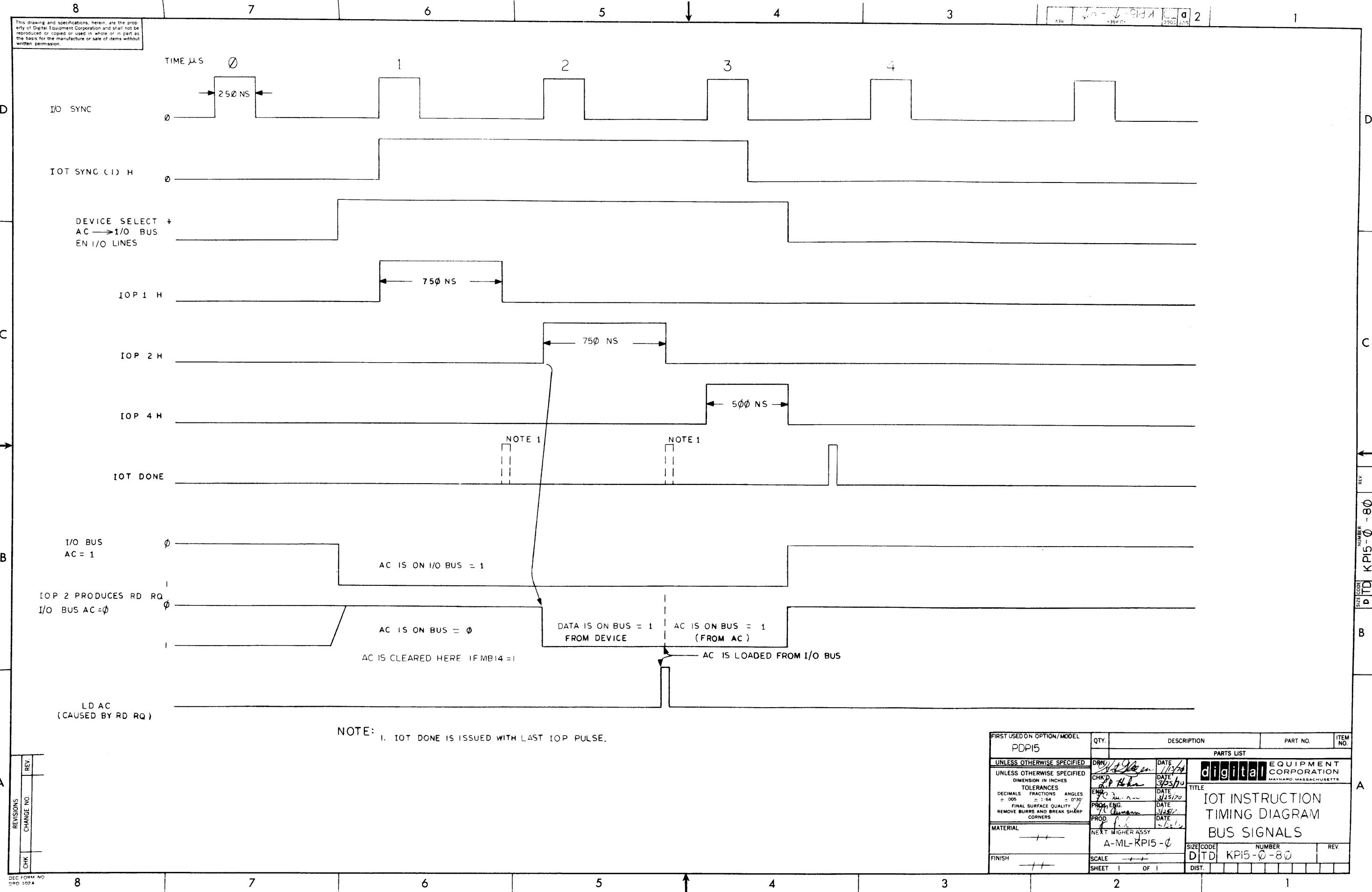
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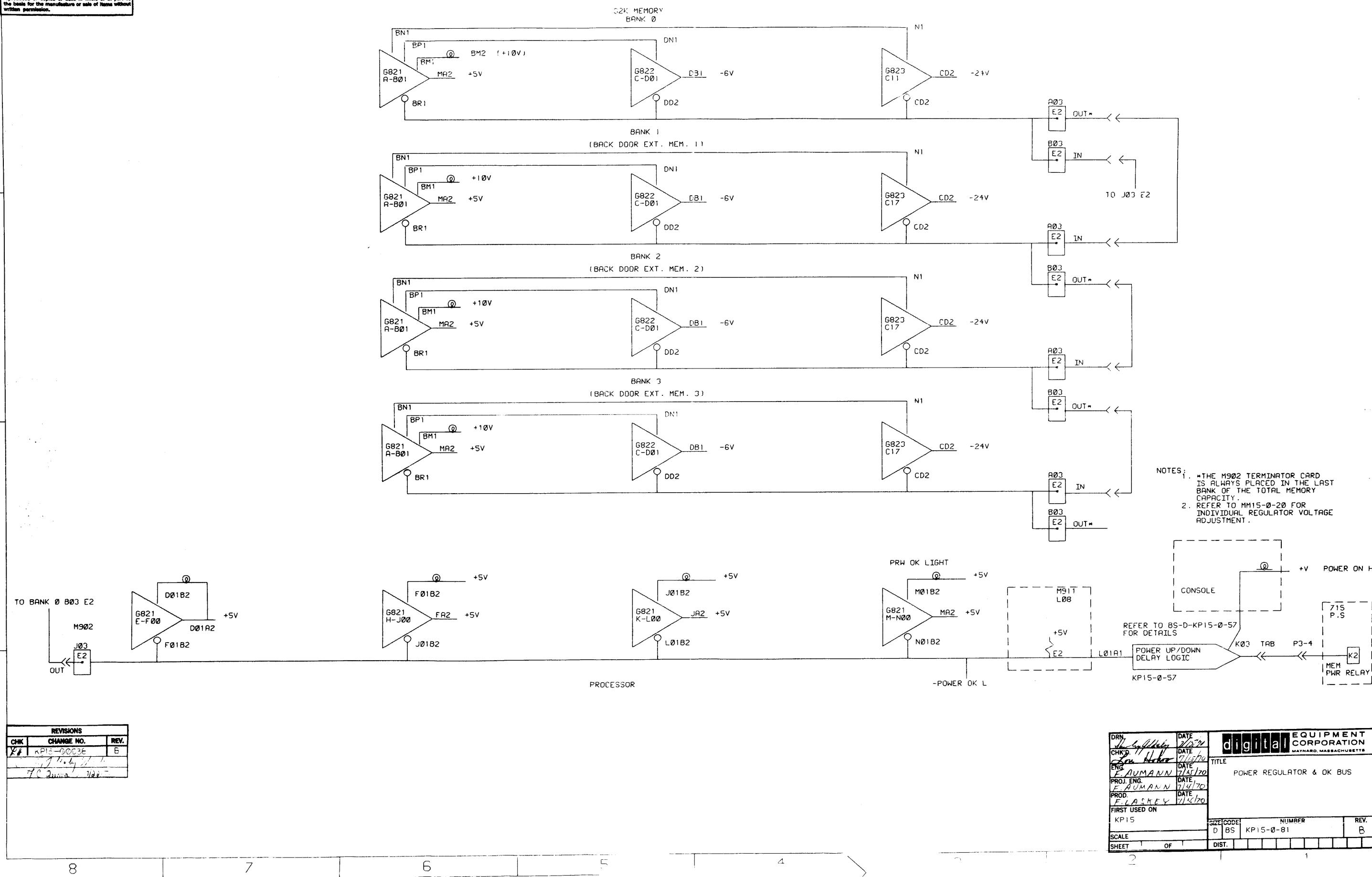
A

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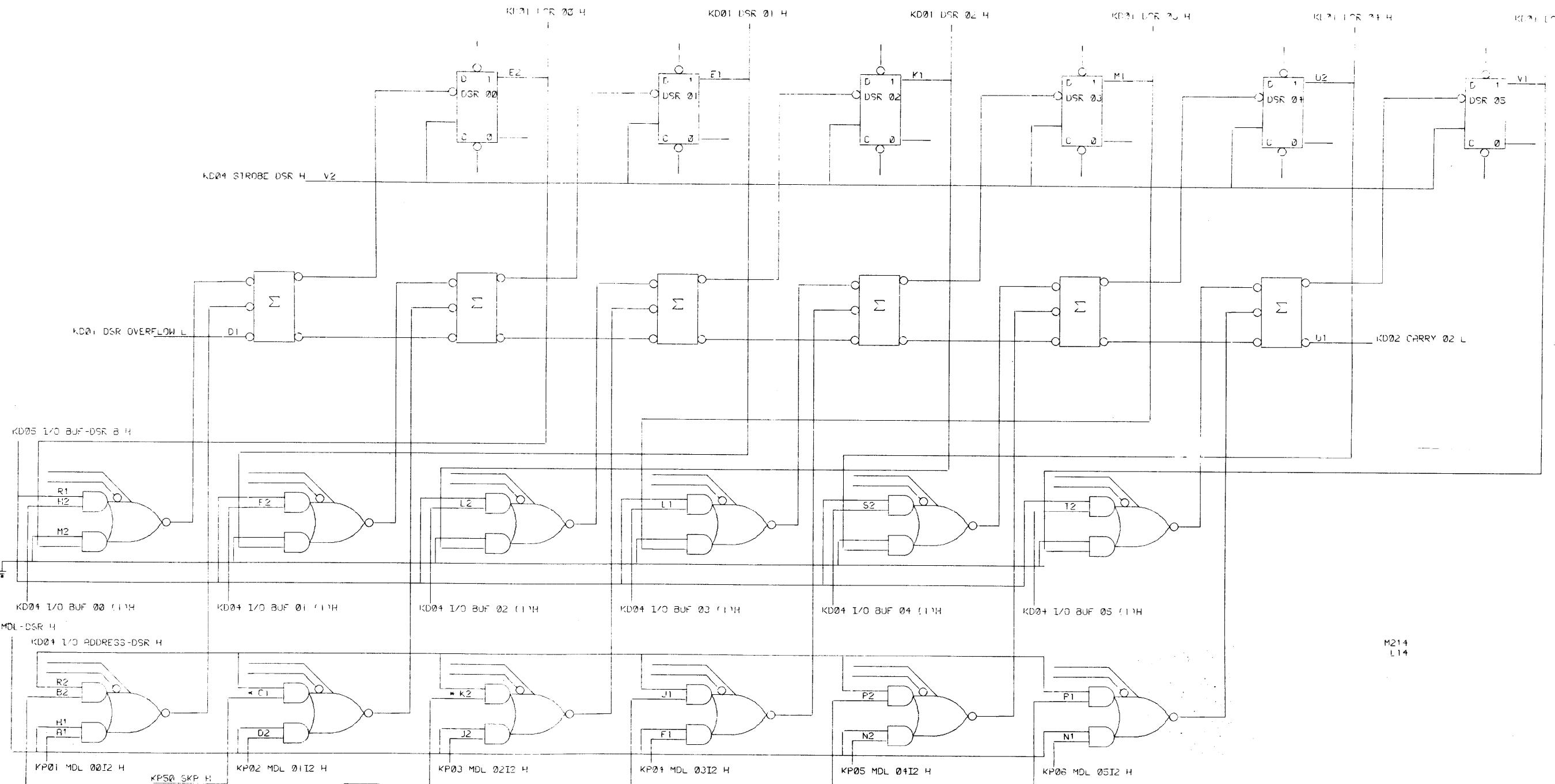
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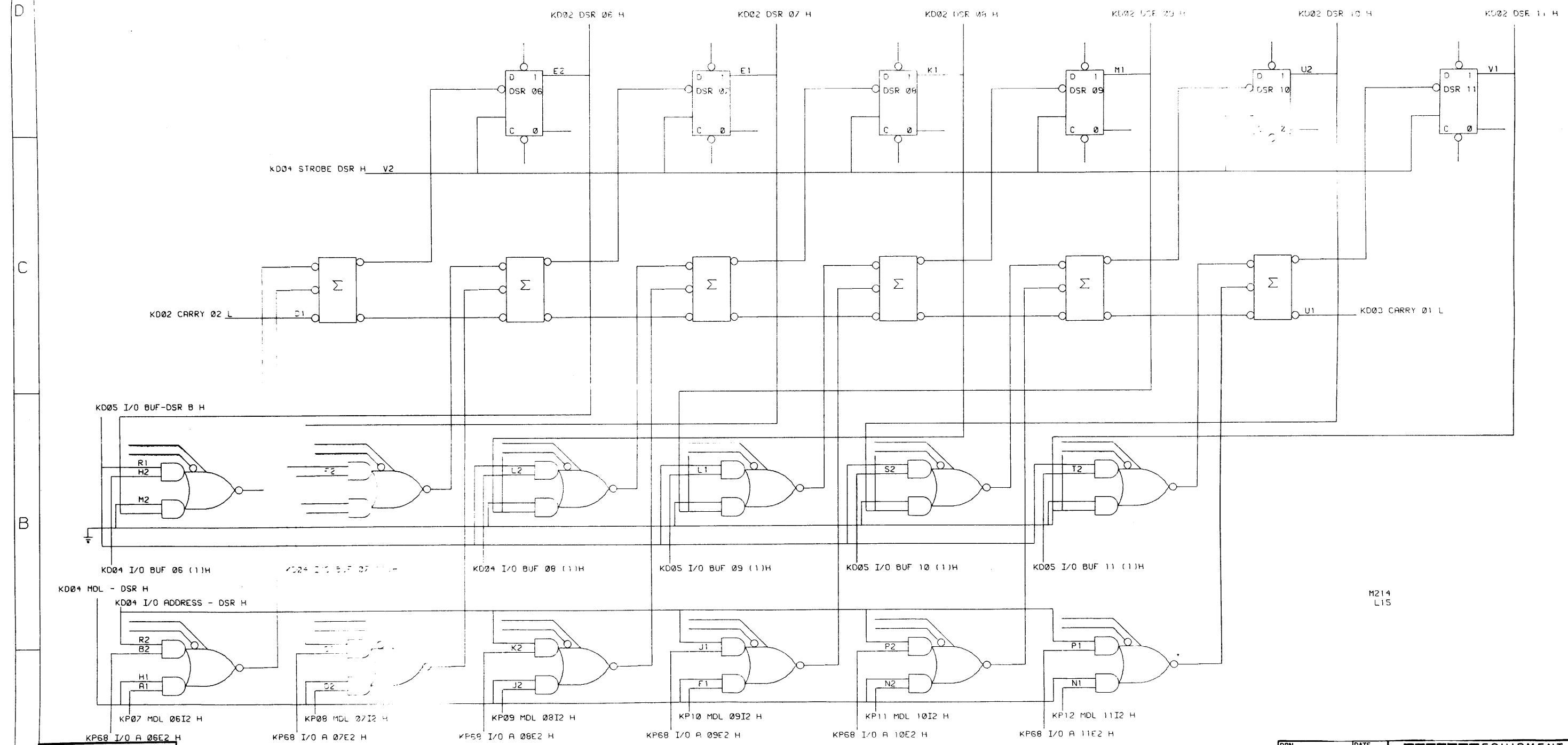


REVISIONS	
CHK	CHANGE NO. / REV.
S. GOLDSBY	7/15/70
F. HUMANN	7/22/70
	KP15-00052 15
	7/14/70
	7C Computer

NOTE: IF ECO KP15-#52 (OPTIONAL IN OLDER MACHINES)
IS NOT INSTALLED, INDICATED PINS ARE GROUNDED.

DRN. S. GOLDSBY	DATE 10/14/69	EQUIPMENT CORPORATION
CHKD. L. HOHOH	DATE 10/15/69	MAYNARD, MASSACHUSETTS
ENG. F. HUMANN	DATE 10/7/69	DSR 00-05
PROJ. ENG. G. BUTLER	DATE 10/7/69	TITLE
PROD. F. LASKEY	DATE 10/7/69	
FIRST USED ON		
KD15	SIZE CODE	NUMBER
SCALE	D B2	KC15-0-01
SHEET	1 OF 1	REV. B
	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.
X	KP15-00038	A
		11/1/69
		F. Laskey 11/1/69

DRN:	DATE
Schley, Schley	10/15/69
CHK'D:	DATE
Joe Hobart	10/15/69
ENG:	DATE
F. ALMANN	10/17/69
PROJ. ENG.:	DATE
G. BUTLER	10/17/69
PROD.:	DATE
F. LASKEY	10/17/69
FIRST USED ON:	
KD15	
SCALE:	SIZE CODE
D 1/8	KD15-0-02
Sheet 1 of 1	NUMBER
	REV. A
	DIST.

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DSR 06-11

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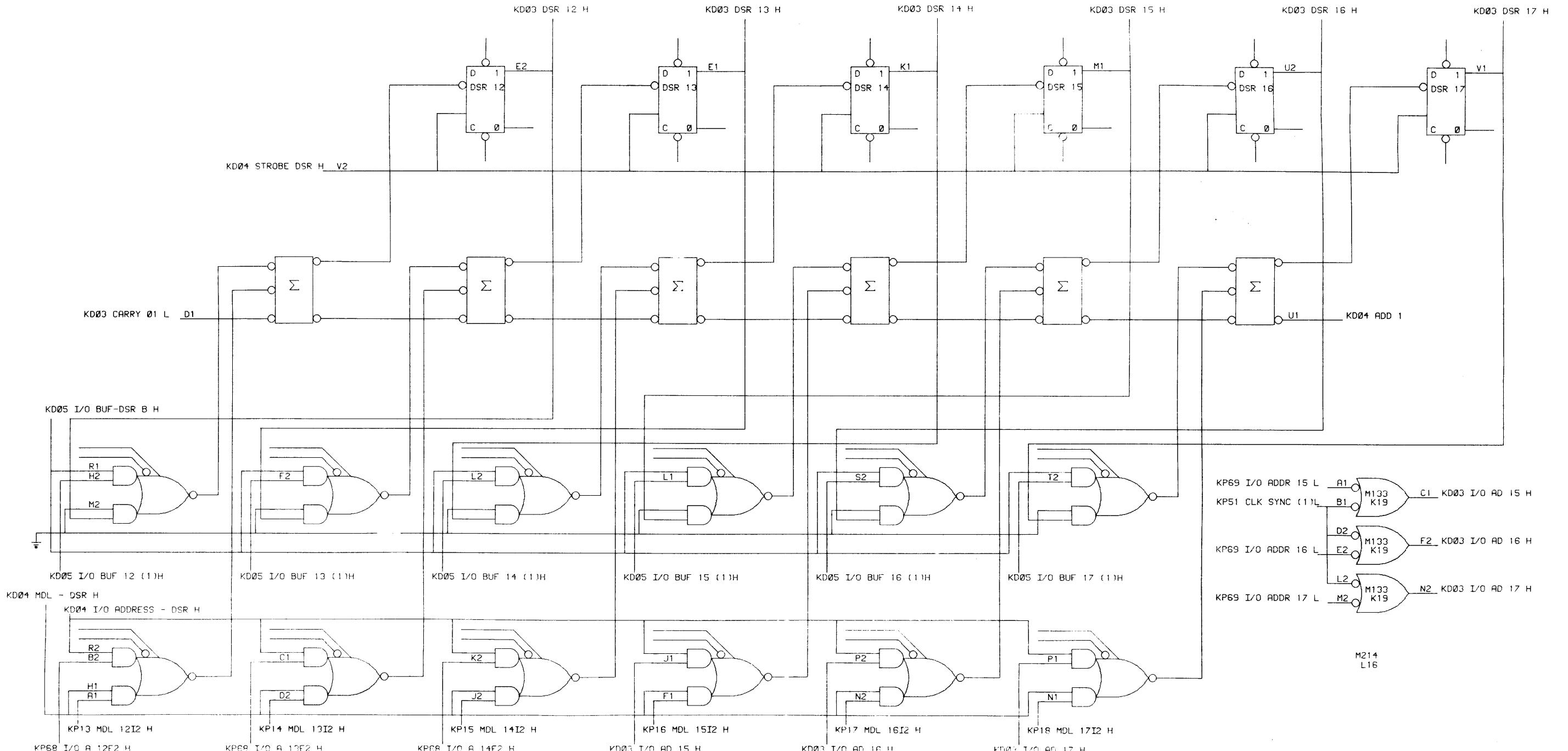
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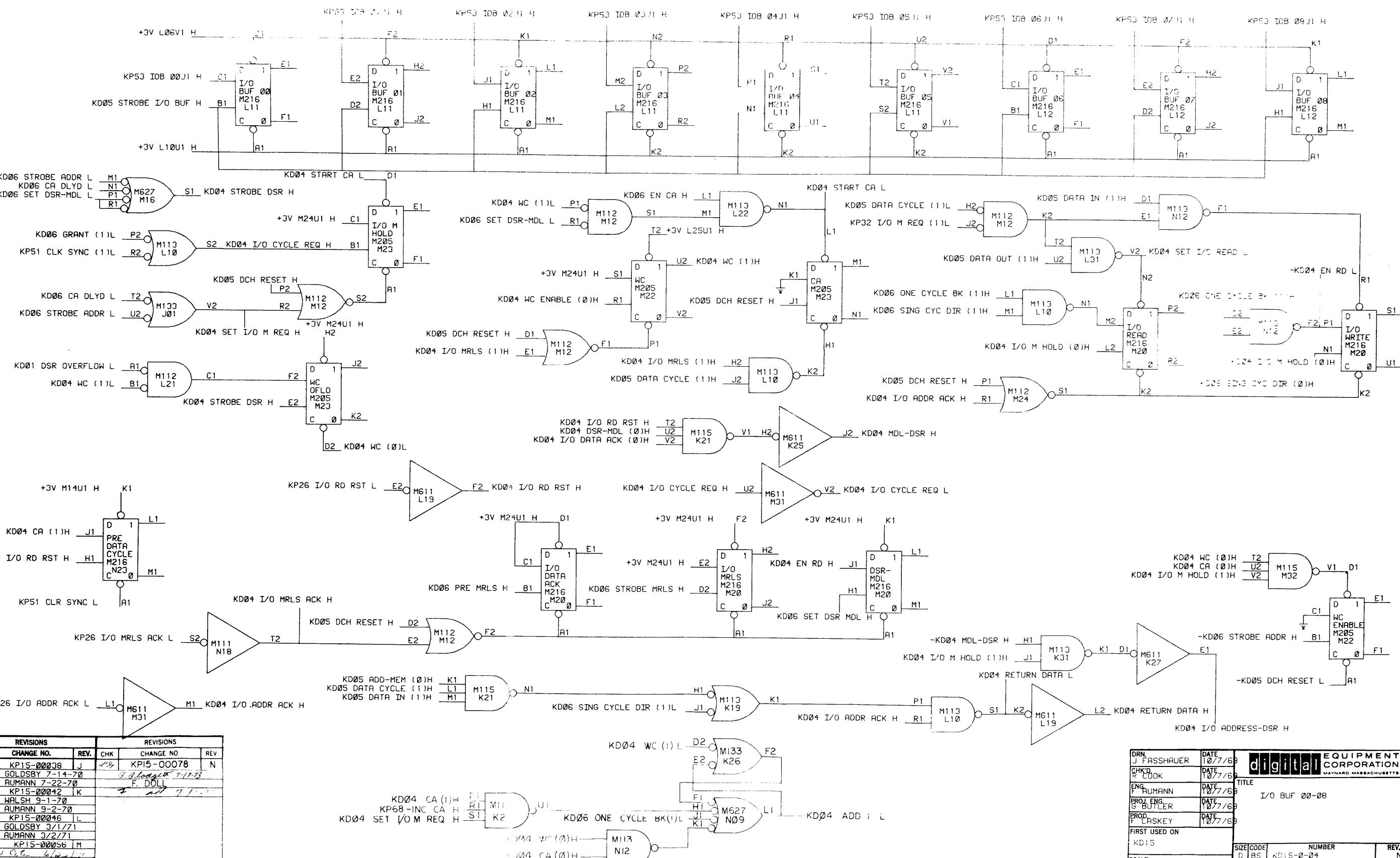
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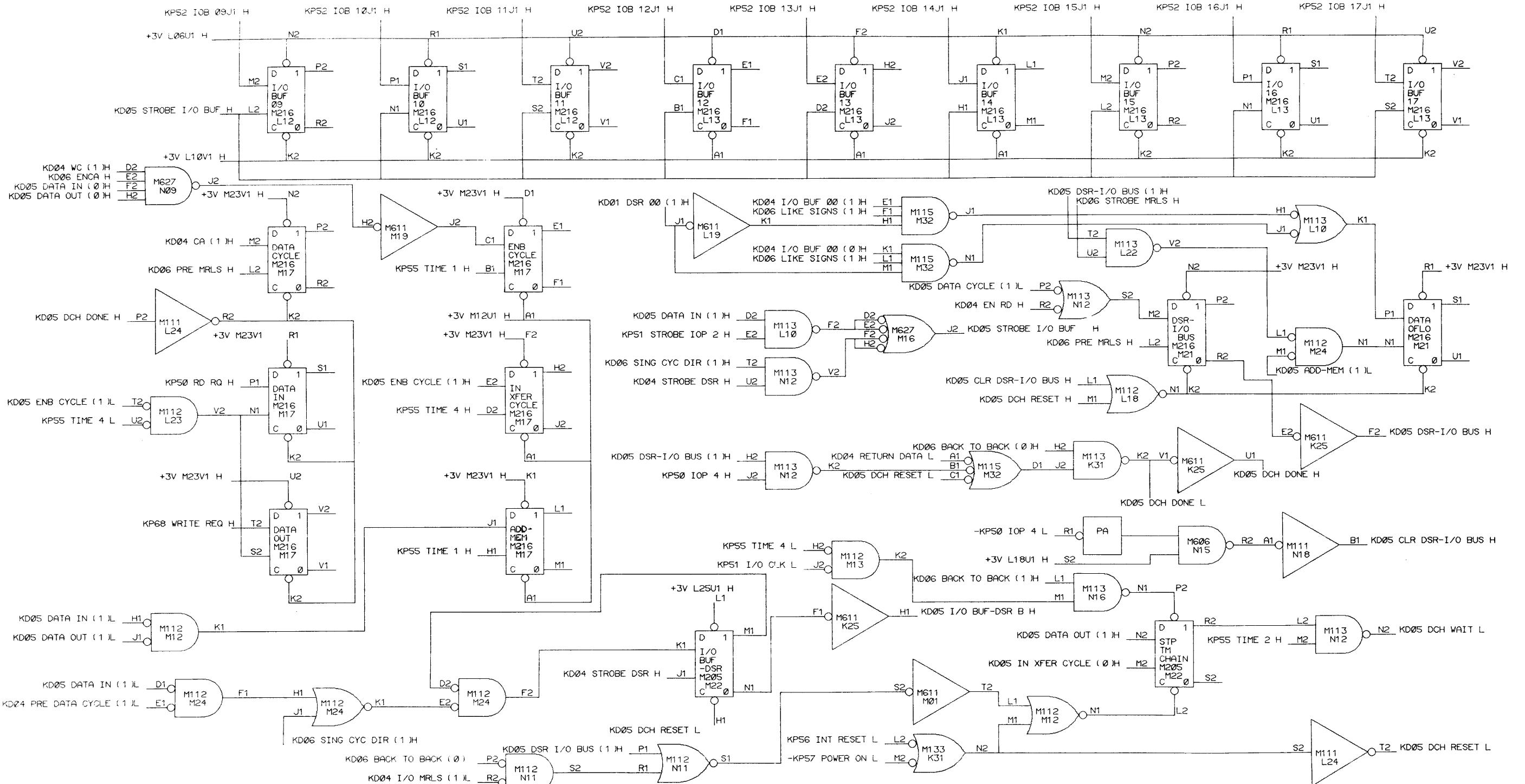


DRN. S.GOLDSBY	DATE 10/15/69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. L.HOHOS	DATE 10/15/69			
ENG. F.RUMANN	DATE 10/7/69	TITLE DSR 12-17		
PROJ. ENG. G.BUTLER	DATE 10/7/69			
PROD. F.LASKEY	DATE 10/7/69			
FIRST USED ON KD15		SIZE D	CODE BS	NUMBER KD15-0-03
SCALE				REV. B
SHEET 1	OF 1	DIST.		

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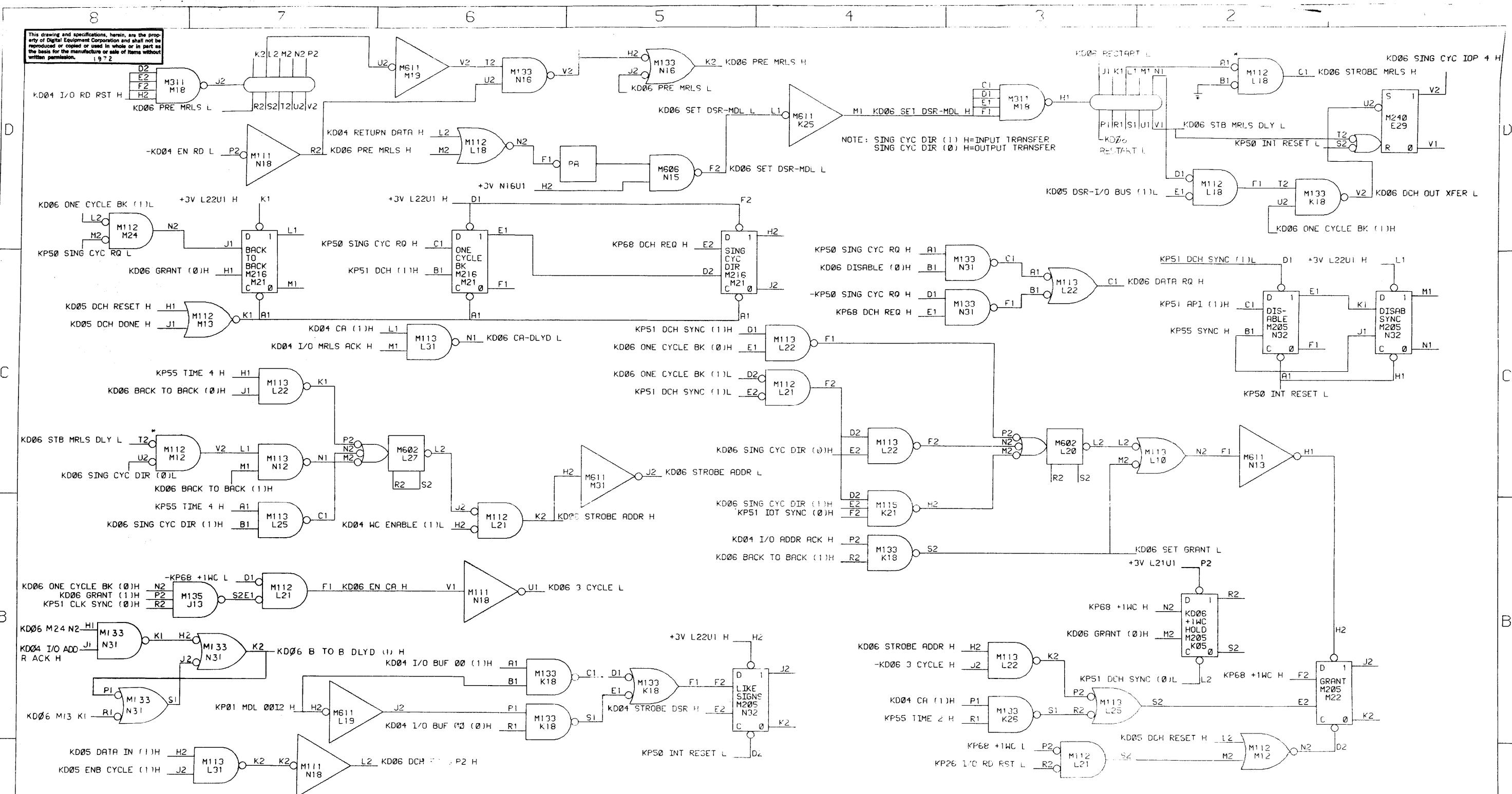


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REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
LH	KP15-00038	E	B14	KP15-00056	K
C	GOLDSBY 7-15-70				
F	HUMANI 7-17-72				
H	KP15-00042	F		KP15-00042	L
Z	K-15-3H				
F	HUMANI			F. JULI	
S	KP15-00044	H			
S	GOLDSBY 12-9-72				
F	HUMANI 12-12-72				
	KP15-00042				
S	GOLDSBY 3/2/73				
F	HUMANI 3/2/73				

DRN. J FASSHAUER	DATE 10/77/69	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. R COOK	DATE 10/77/69	TITLE	
ENG. F AUMANN	DATE 10/77/69	I/O BUF 09-17	
PROJ. ENG. G BUTLER	DATE 10/77/69		
PROD. F LASKEY	DATE 10/77/69		
FIRST USED ON			
KD15	SIZE	CODE	NUMBER
SCALE	D	BS	KD15-0-05
SHEET 1 OF 1	DIST.		

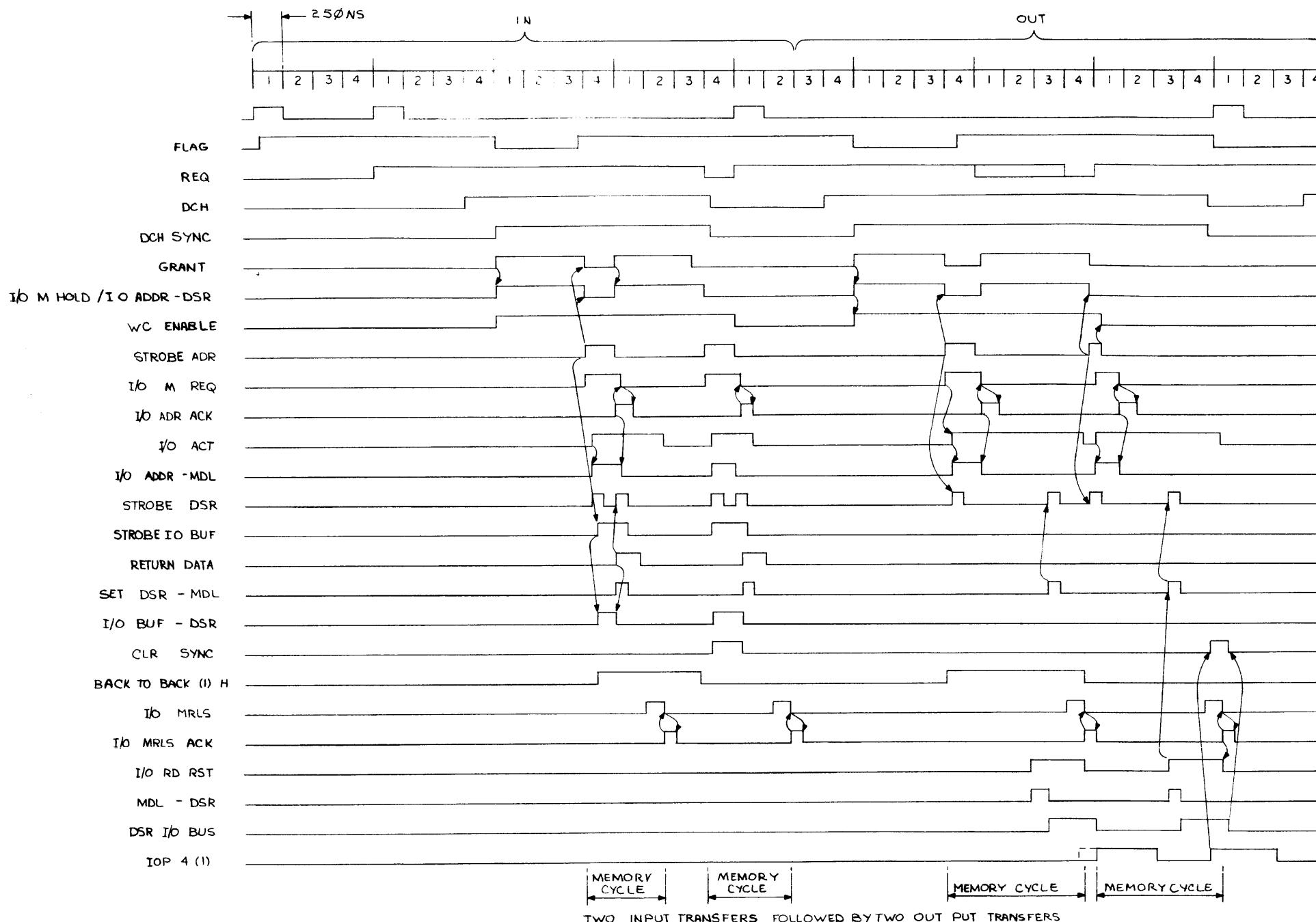


REVISIONS		REVISIONS		REVISIONS		REVISIONS	
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.
LH	KP15-00038	F	GH	KP15-00045	L		
	S.GOLDSBY 7/15/70			S.GOLDSBY 10/9/70			
	F.AUMANN 7/22/70			F.AUMANN 10/10/70			
TC	KP15-00039	H		KP15-00046	M		
	S.GOLDSBY 8/5/70			N.LEGERE 12/12/71			
	F.AUMANN 8/5/70			F.AUMANN 12/12/71			
GH	KP15-00043	I		KP15-00056	N		
	N.LEGERE 9/8/70						
	F.AUMANN 9/8/70						
GH	KP15-00044	J					
	S.GOLDSBY 10/9/70						
	F.AUMANN 10/10/70						

* FOR ALL MACHINES WITH FPI5, MX15 OR KM15 AND G-LATER THAN 8K CORE -
CHANGE THE FOLLOWING:
DEL. KP06 STB MRLS DLY L M18 VI-M12 T2
ADD. KP26 I/O MRLS ACK L K17 SL-M12 T2
DEL. KP06 M18 LI M18 LI-L18AI
ADD. (ONLY FPI5) KP06 M18NI M18 NI-L18AI
(KM15) KP06 M18PI M18 PI-L18AI
(MX15) KP06 M18RI M18 RI-L18AI

DRN.	R. FASSHAUER	DATE	10/7/69
CHK'D.	R. COOK	DATE	10/7/69
ENG.	F. PUMANN	DATE	10/7/69
PROJ. ENG.	G. BUTLER	DATE	10/7/69
PROD.	F. LASKEY	DATE	10/7/69
FIRST USED ON		KD15	
SCALE	SIZE	CODE	NUMBER
	1/4 IN		KD15-0-06
	DIST		T

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REVISIONS
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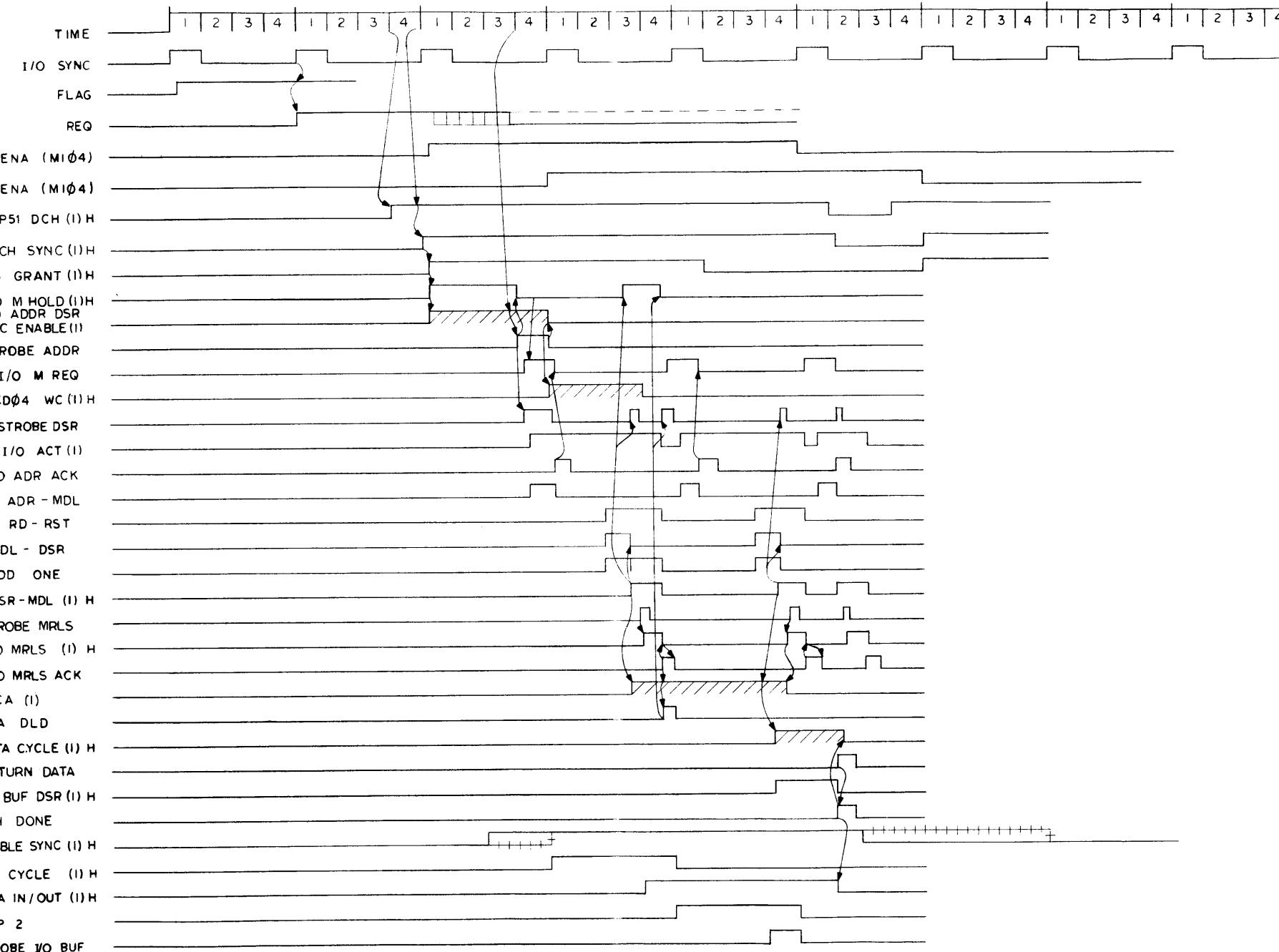
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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP15				
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES		
= .000	= 1/64	= 0°30'		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A - ML - KDI5 - 0				
SIZE CODE	NUMBER	REV.		
TD	KDI5-0-07			
PARTS LIST				
digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS				
TITLE				
DETAILED TIMING - SINGLE CYCLE IN&OUT TRANSFERS				
FINISH	SCALE	SHEET 1 OF 1	DIST.	

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REVISIONS
CHANGE NO.
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FIPST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
			PARTS LIST		
UNLESS OTHERWISE SPECIFIED		DREQ	DATE 12/23/69	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		CKD	DATE 5/25/71	digital MAYNARD MASSACHUSETTS	
DIMENSION IN INCHES		TITLE			
DECIMALS FRACTIONS ANGLES		DETAILED TIMING			
$\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$		3 CYCLE DCH IN			
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		TRANSFER			
MATERIAL		A - ML - KD15-0			
FINISH		SCALE	- + + -	SIZE/CODE	NUMBER
		SHEET	I OF 1	D T D	KD15-0 - 08
				REV.	

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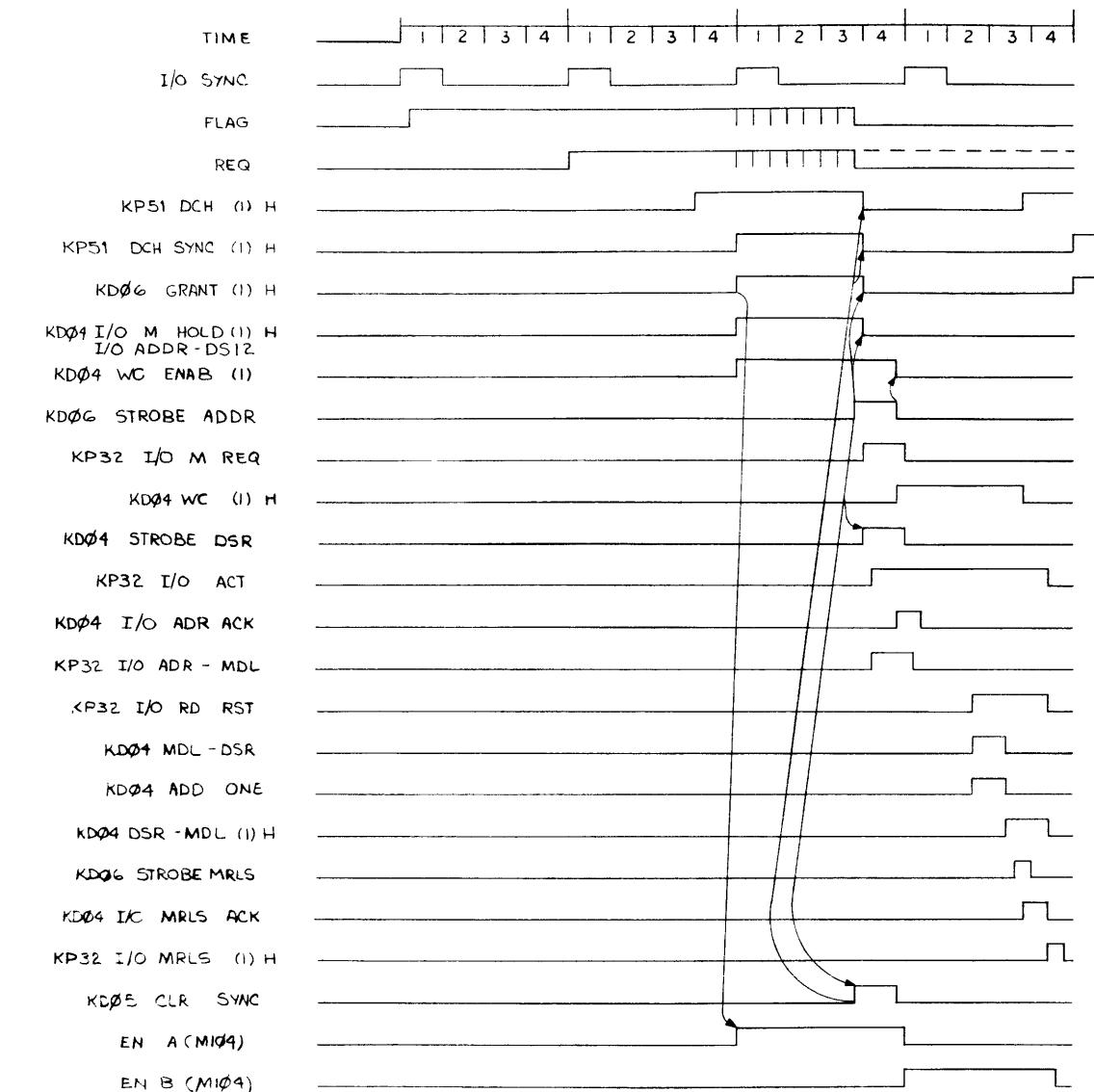
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DEC FORM NO
DOD 102A

FIRST USED ON OPTION / MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DRW:	DATE	EQUIPMENT CORPORATION		
UNLESS OTHERWISE SPECIFIED	CHK:	DATE	digital MAYNARD MASSACHUSETTS		
TITLE					
DETAILED TIMING INC MB TRANSFER					
FINISH	SCALE	1/1	NUMBER	KD15-0-09	REV.

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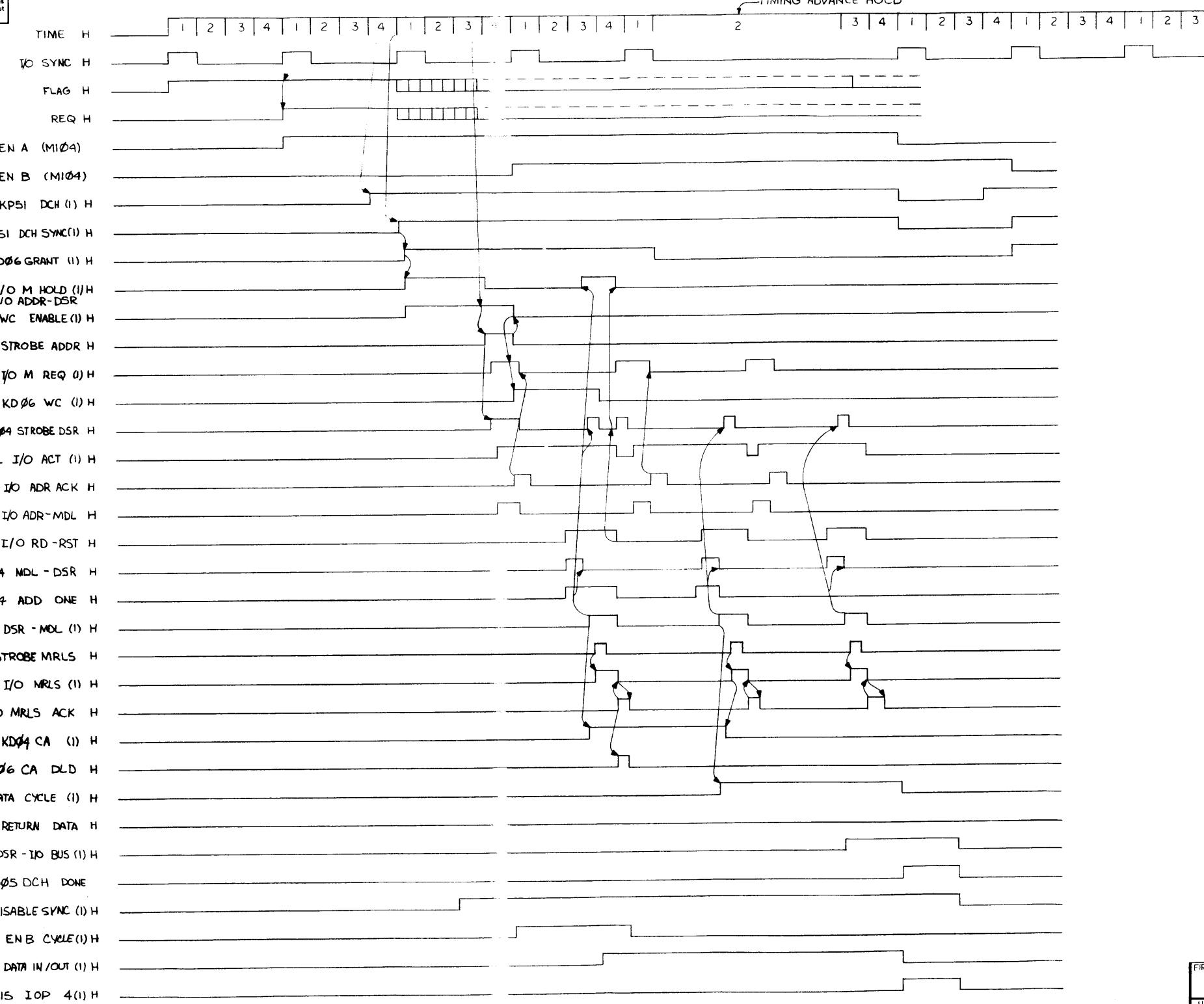
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8 7 6 5 4 3 2 1 SIZE CODE KDI5-Ø-1Ø NUMBER REV.

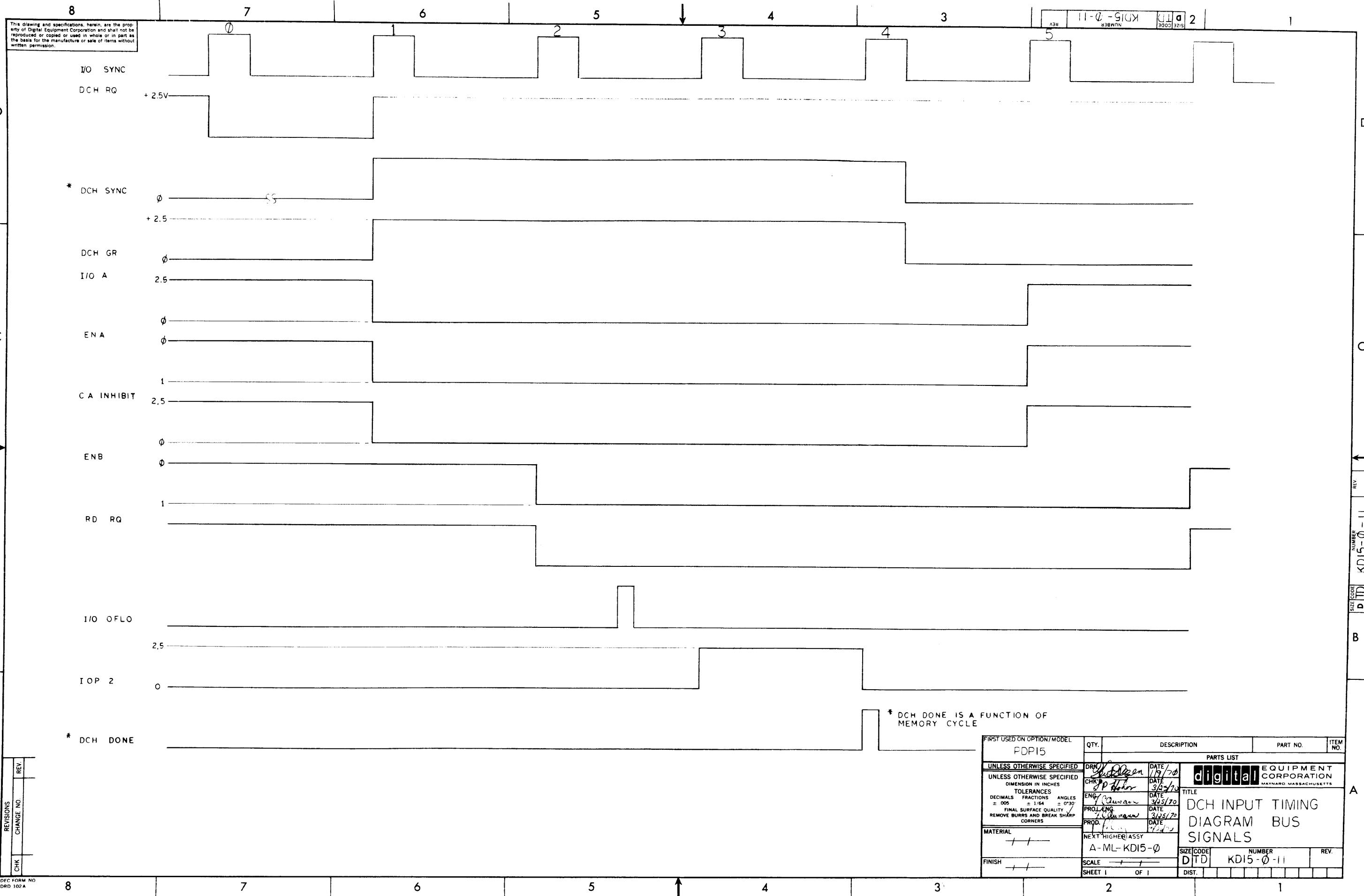


FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.
PDP15				ITEM NO.
UNLESS OTHERWISE SPECIFIED		DRN	DATE	
		16170	16/170	
UNLESS OTHERWISE SPECIFIED		CHKD	DATE	
DIMENSION IN INCHES		XP	3/25/70	
TOLERANCES		ENG	DATE	
DECIMALS FRACTIONS ANGLES		CUR	4/15/70	
$\pm .005$ ± 1.64 $\pm 0^{\circ}30'$		PROJ	DATE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		ENG	3/25/70	
MATERIAL		PROD	DATE	
NEXT HIGHER ASSY				
A-ML-KDI5-Ø				
FINISH		SCALE		
		SHEET	1 OF 1	DIST.

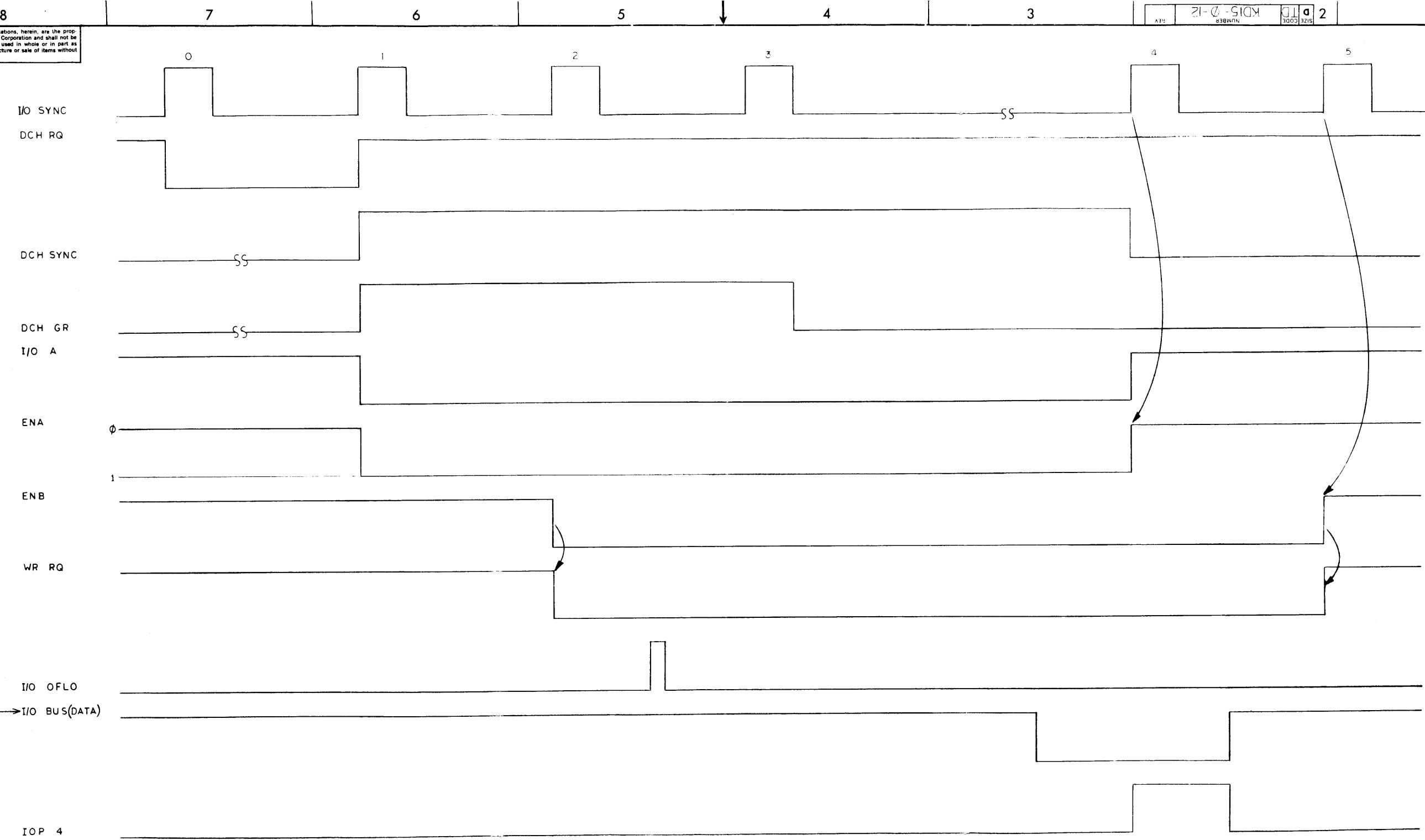
SIZE CODE D TD KDI5-Ø-1Ø NUMBER REV.

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: DETAILED TIMING - 3 CYCLE DCH OUT TRANSFER



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FIRST USED ON OPTION / MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP15					
UNLESS OTHERWISE SPECIFIED	DRW	12/18/69			
UNLESS OTHERWISE SPECIFIED	CHG	5/27/70			
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS FRACTIONS ANGLES					
$\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$					
FINAL SURFACE QUALITY					
REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL					
A-ML-KD15-0					
NEXT HIGHER ASSY					
FINISH					
SCALE					
SHEET 1 OF 1					
DIST.					

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

digital

DCH OUTPUT TIMING DIAGRAM BUS SIGNALS

SIZE CODE: D TTD NUMBER: KDI5-0-12 REV: 1

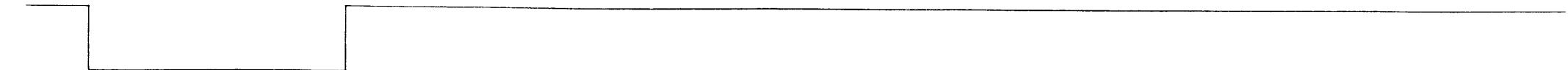
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I/O SYNC



SING CY RQ



DCH SYNC



DCH RQ



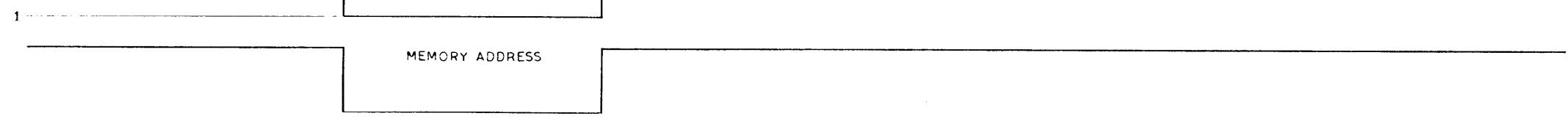
DCH GR



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I/O A



I/O BUS



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REVISIONS
CHANGE NO.
REV.
CHK

DEC FORM NO.
DRAFT 102A

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SIZE CODE D TD KDI5-0-13 REV.

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
DECIMALS FRACTIONS ANGLES				
$\pm .005$ = $.005$ - $.030$				
TOLERANCES				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A - ML-KDI5-0				
FINISH				
SCALE				
SHEET 1 OF 1				
DIST.				
SIZE CODE D TD KDI5-0-13 REV.				

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS
digital
TITLE
SINGLE CYCLE
INPUT TIMING
BUS SIGNALS

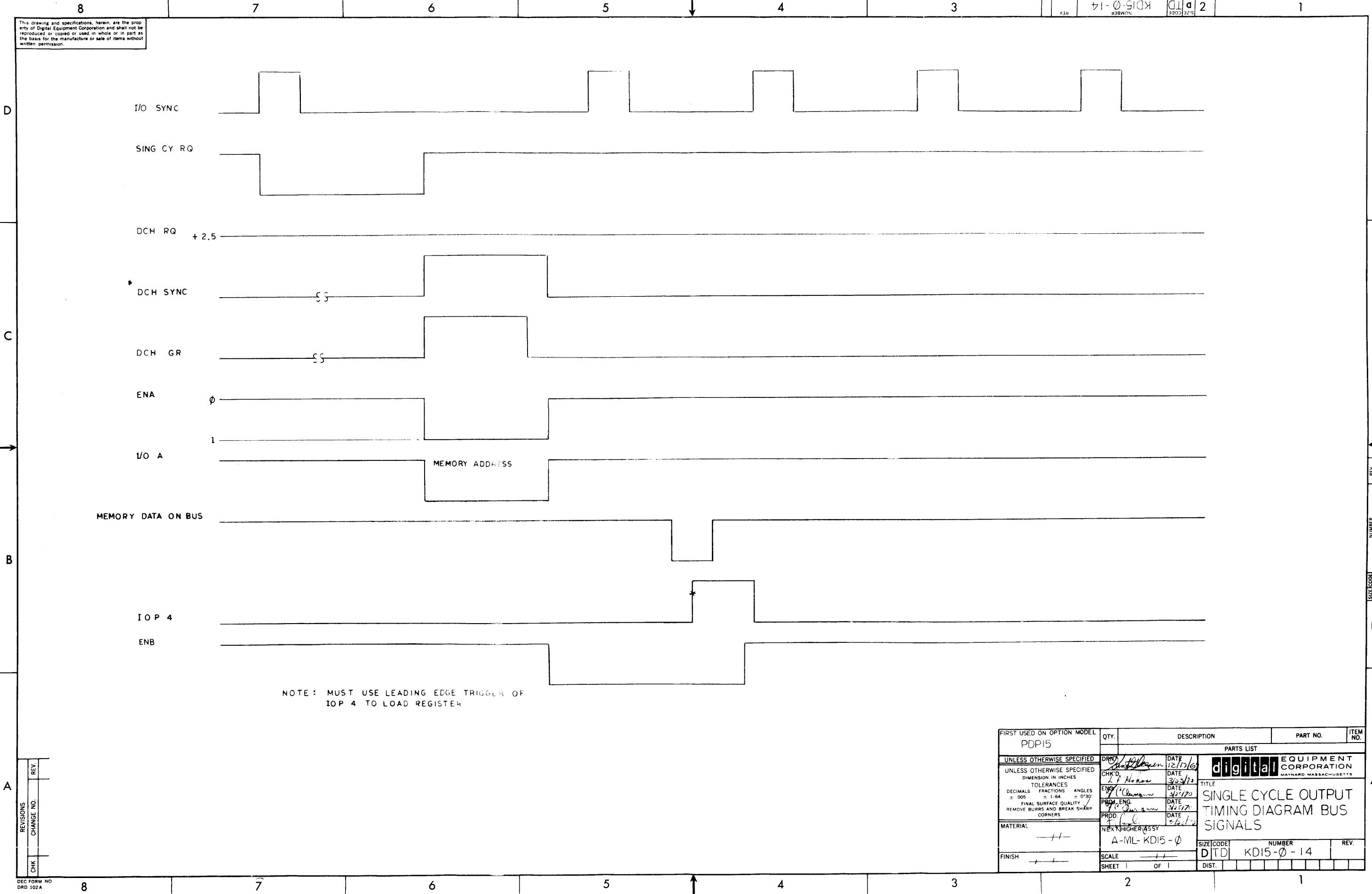
SIZE CODE D TD KDI5-0-13 REV.

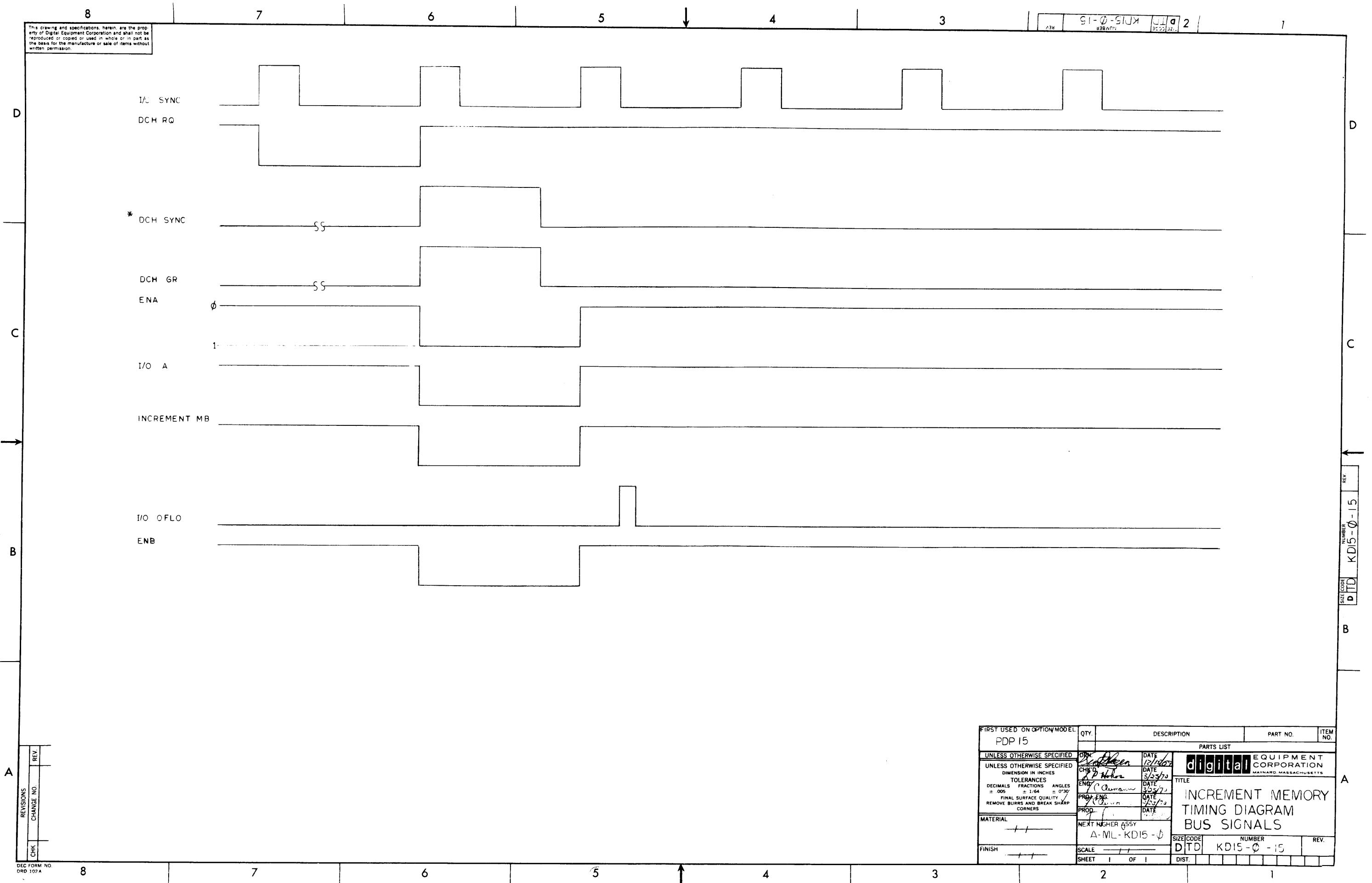
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FIRST USED ON OPTION MODEL PDP 15		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED		QTY. <i>1</i>	DATE <i>12/1/502</i>	EQUIPMENT CORPORATION digital MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		CHK'D. <i>J P Ahern</i>	DATE <i>5/25/70</i>	TITLE INCREMENT MEMORY TIMING DIAGRAM BUS SIGNALS	
TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm 1/64$ $\pm 30^\circ$		ENG'D. <i>C. L. Cramer</i>	DATE <i>3/25/70</i>		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		PROF. ENG'D. <i>R. L. ...</i>	DATE <i>5/25/70</i>		
MATERIAL <i>++</i>		PROD. <i>J. ...</i>	DATE <i>5/25/70</i>		
NEXT HIGHER ASSY A-ML-KD15-Ø				SIZE CODE D T D	NUMBER KD15-Ø - 15
FINISH <i>++</i>		SCALE <i>++</i>	SHEET I	REV.	
		OF I	DIST.		

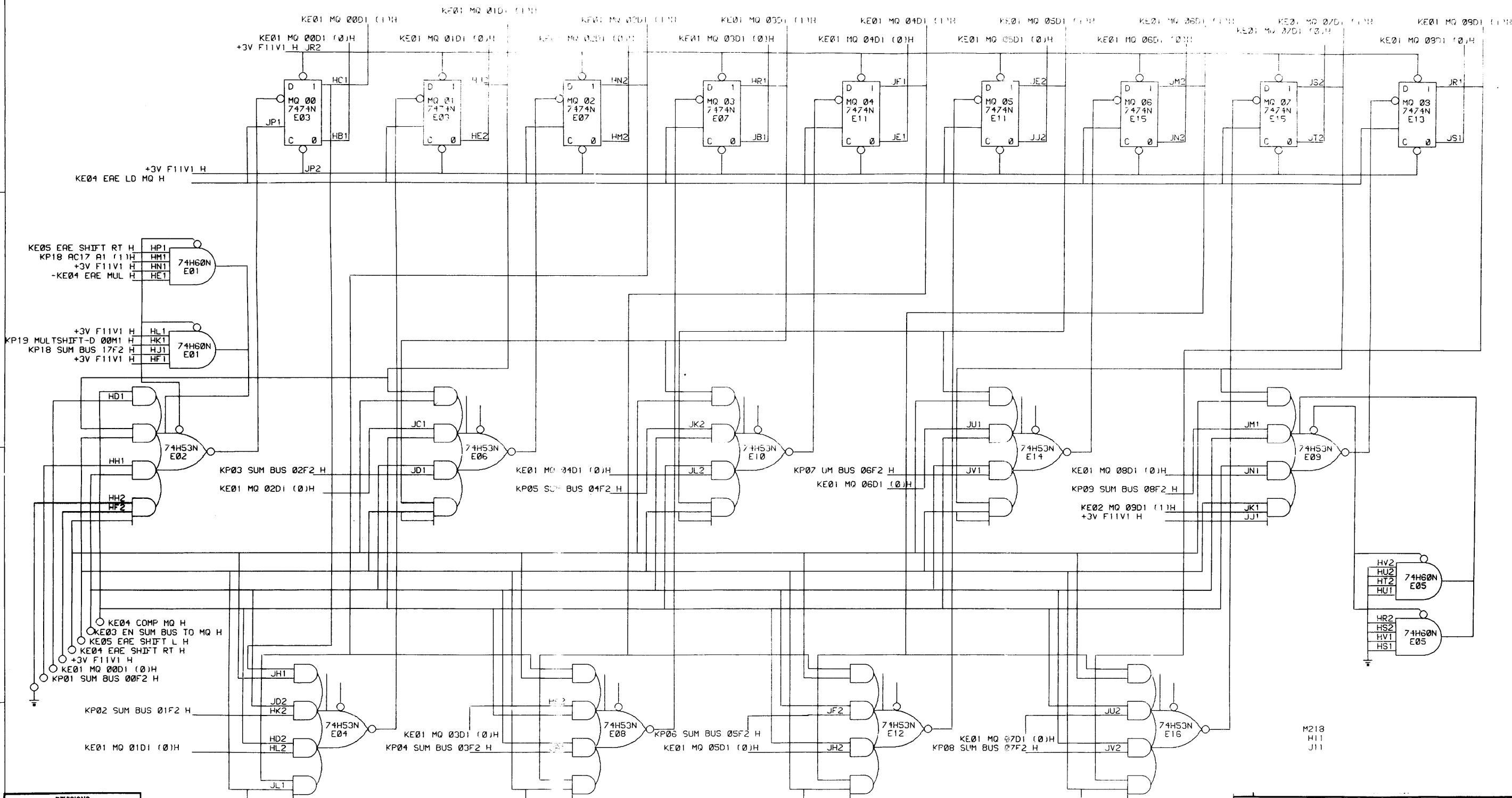
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8

100

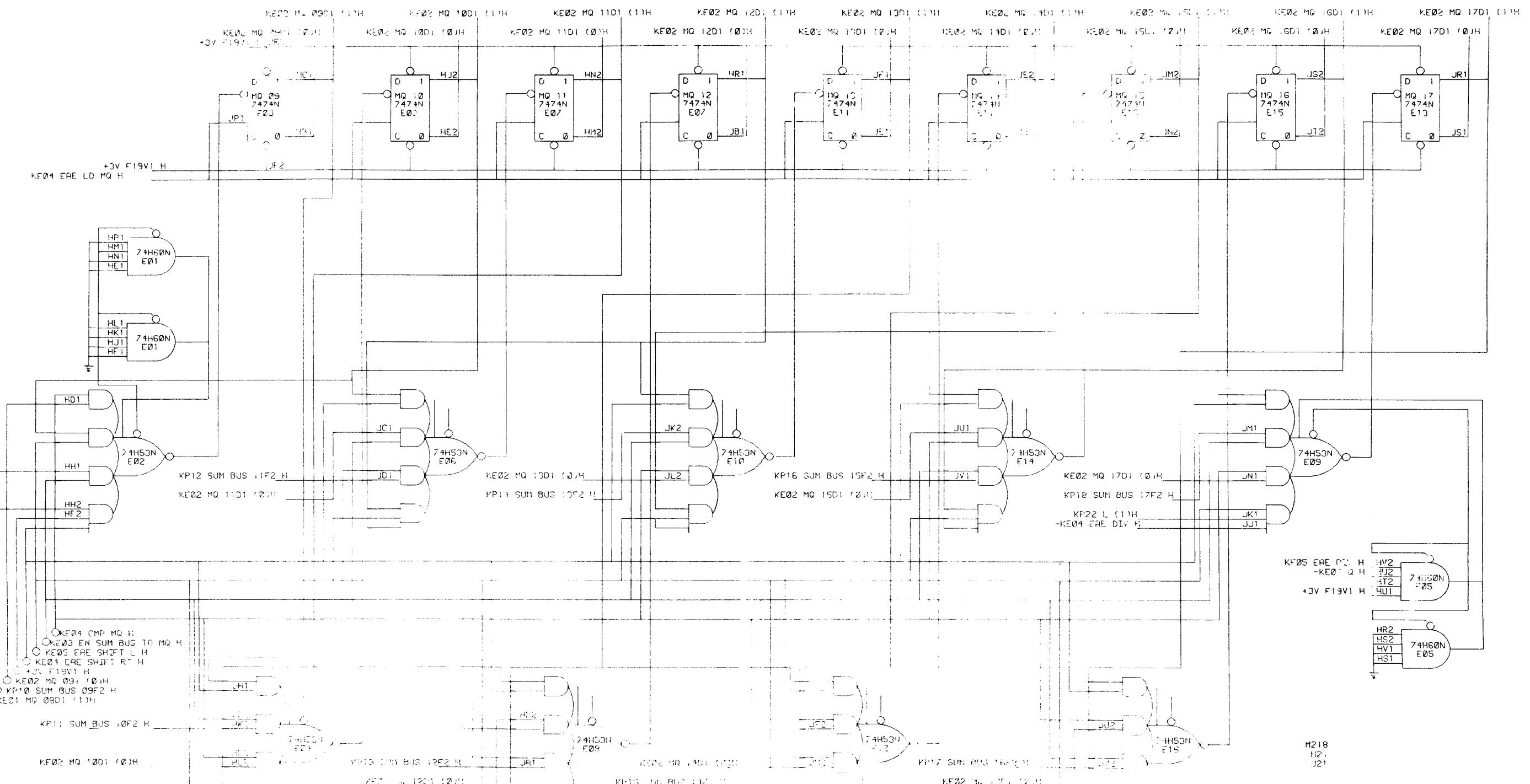
1

1



DRN. KATHY COTE	DATE 10-15-69	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
CHK'D. LOU HOHOS	DATE 10-15-69		
ENG. F. AUMANN	DATE 10-7-69	TITLE	
PROJ. ENG. G. BUTLER	DATE 10-7-69	BI DIRECTIONAL SHIFT REG 00-08 (MQ REG)	
PROD. F. LASKEY	DATE 10-7-69		
FIRST USED ON			
KP15	SIZE D	CODE BS	NUMBER KE15-0-01
SCALE			REV. C
SHEET 1 OF 1	DIST.		

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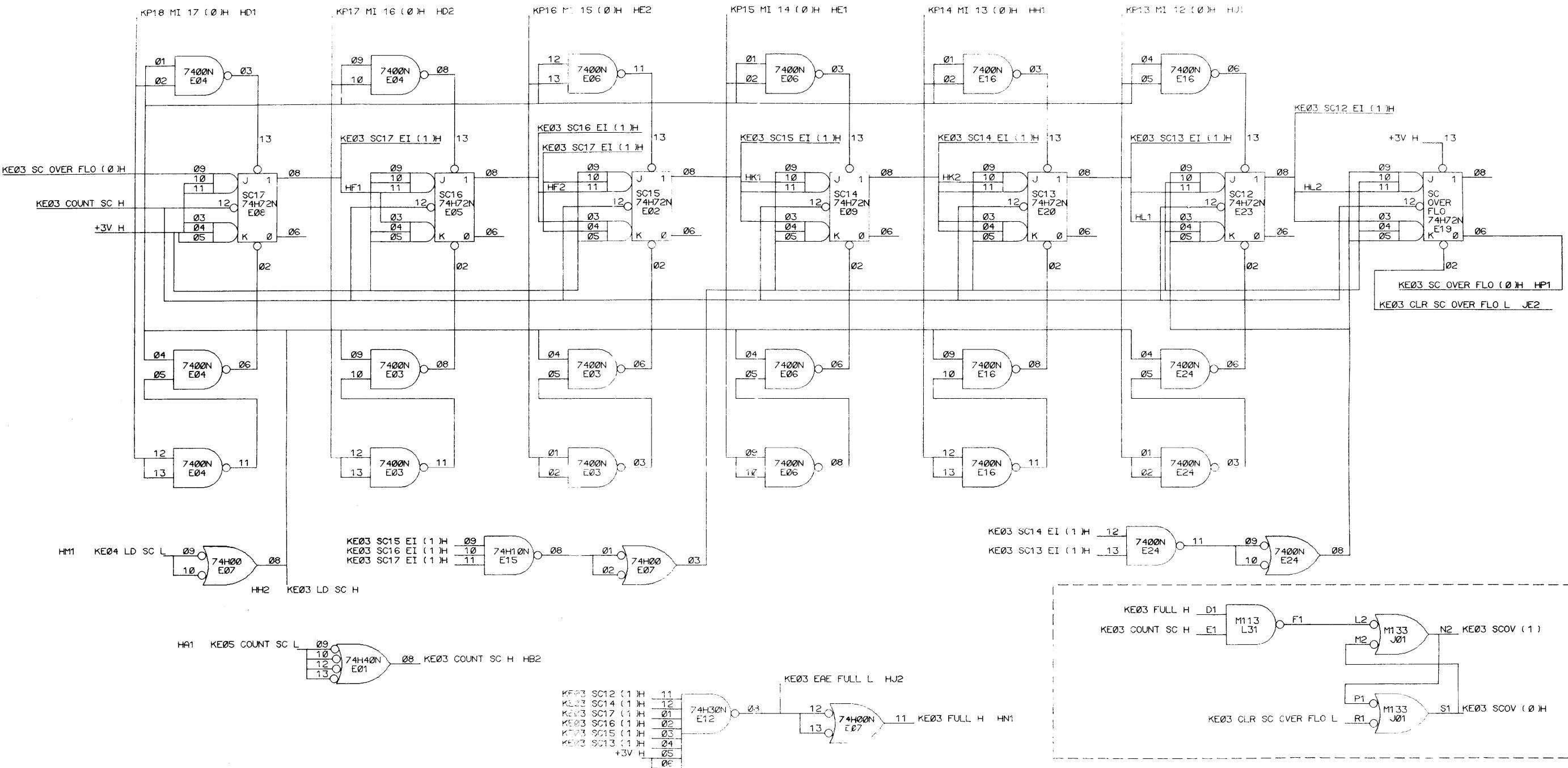
REVISIONS		
CHK	CHANGE NO.	REV.
1	KE15-00-04	B

DRN:	Date:	10/14/69
CHK'D:	Date:	10/15/69
ENG:	DATE:	07
PROJ. ENG:	DATE:	10/15/69
PROD.:	DATE:	10/15/69
FIRST USED ON:		
KR15	SIZE CODE:	D 8S
SCALE:	NUMBER:	KE15-0-02
SHEET 1 OF 1	REV.:	B
DIST.:		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

B1 DIRECTIONAL SHIFT REG 09-17
(MQ REG)

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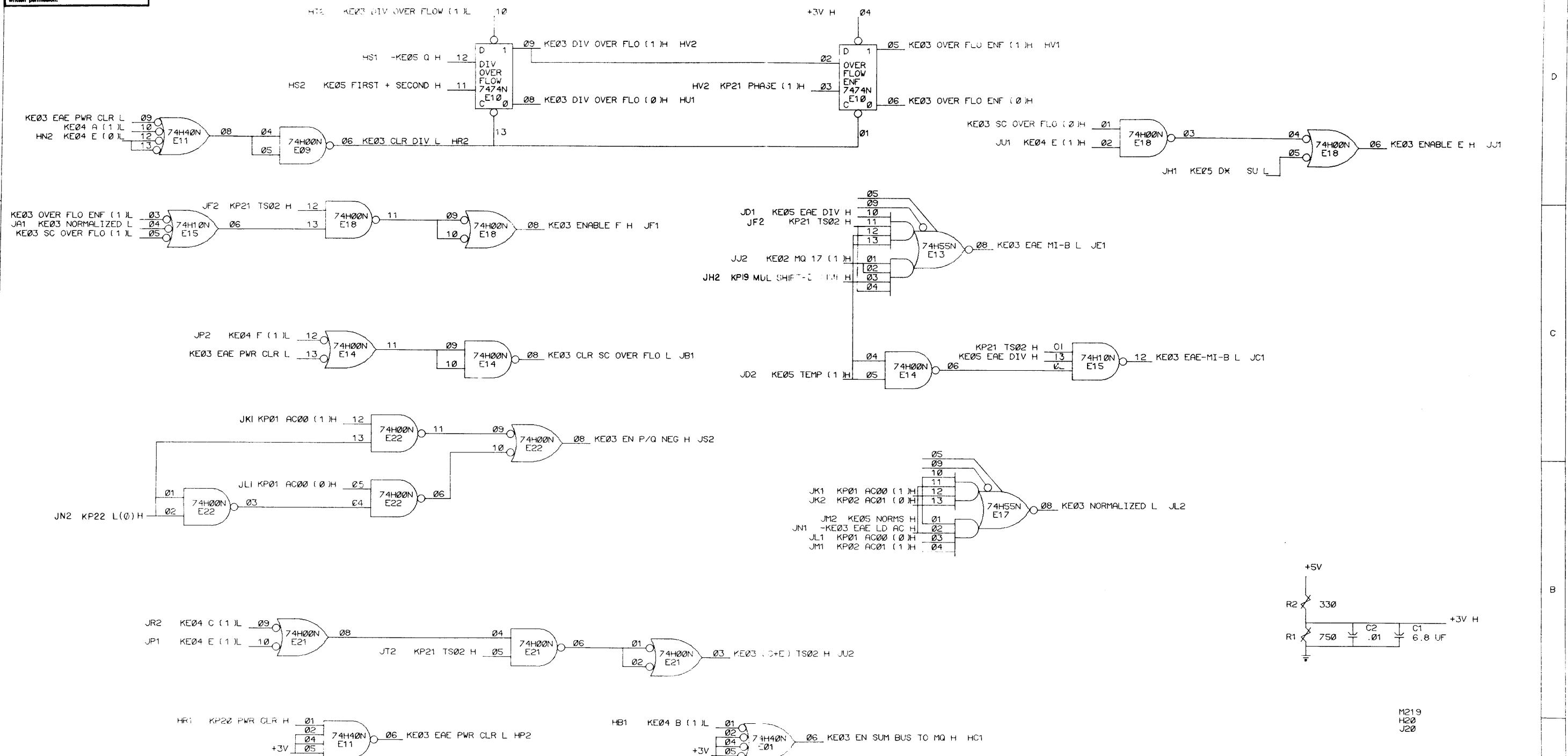


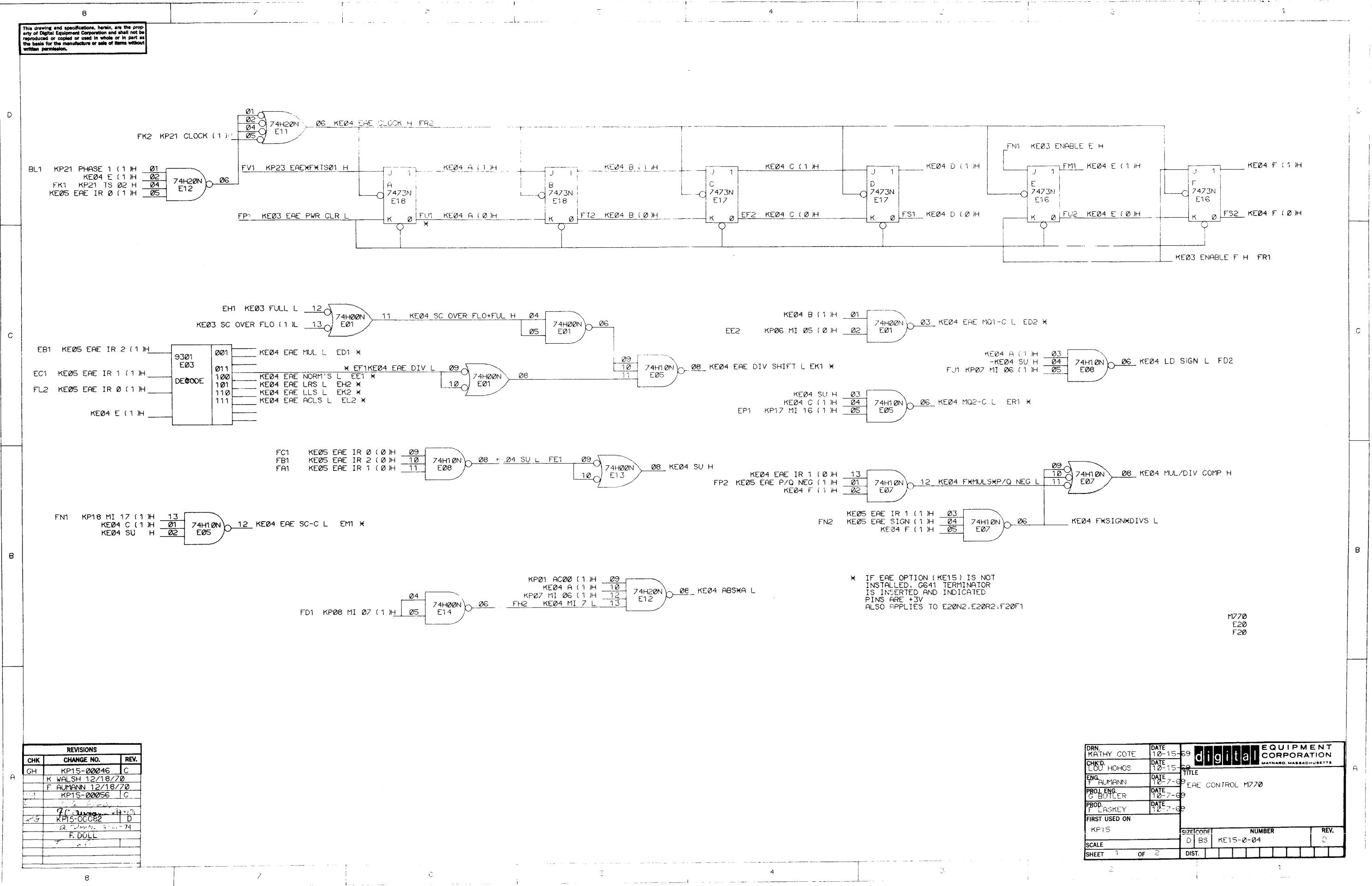
REVISIONS			KP15-C0002	A
CHK	CHANGE NO.	REV.		
3H	KP15-00046	C	F. DCLL	
	K. WALSH 12/9/70			
	F. RUMANN 12/9/70			
3H	KP15-00056	D		
	N. COTE			
	F. RUMANN			
3H	KP15-00058	E		
	N. COTE 7/6/71			
	F. RUMANN 7/6/71			
	KP15-00062	F		

M219
H32
10V

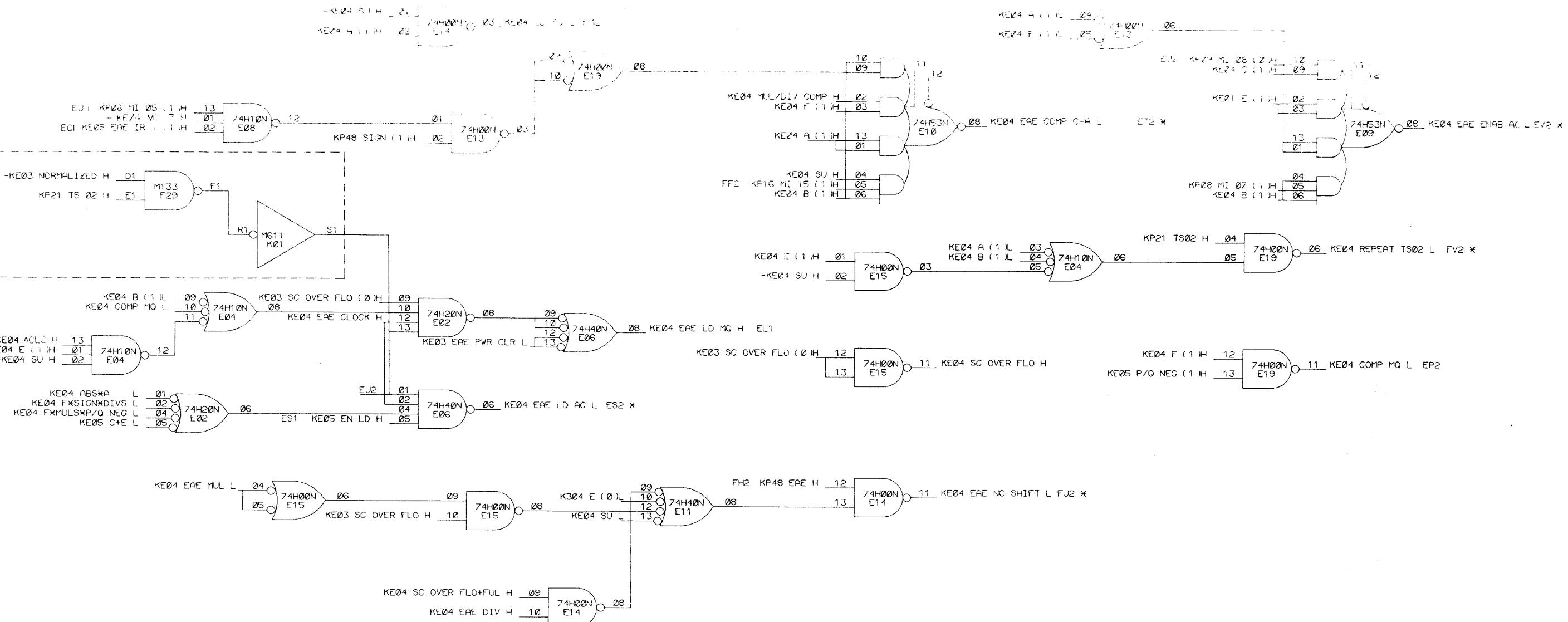
DRN	KATHY COTE	DATE	digital EQUIPMENT CORPORATION
CHKD	H0H03	DATE	MAYNARD MASSACHUSETTS
ENG	RUMANN	DATE	TITLE
PROD. ENG	G. BUTLER	12-7-69	STEP COUNTER AND CONTROL
PROD. ASKEY	J. ASKEY	12-7-69	
FIRST USED ON			
KP15			
SIZE/CODE	NUMBER	REV.	
D. BS	KE15-0-03	H	
SCALE			
SHEET 1 OF 2	DIST.		

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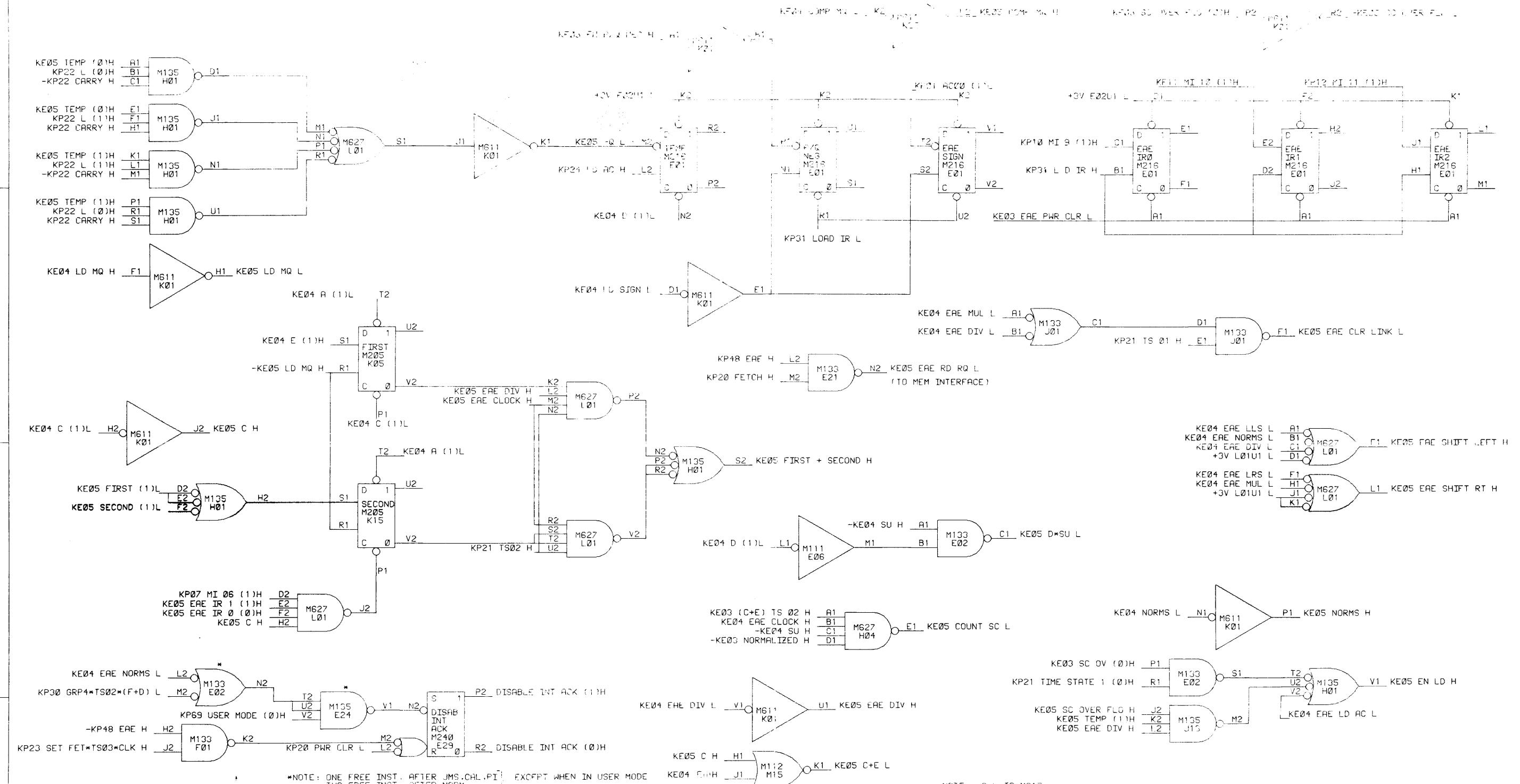
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1770
£20
£20

DRN. KATHY COTE	DATE 10-15-69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. LOU HOHOS	DATE 10-15-69	digital		
ENG. AUMANN	DATE 10-7-69	TITLE EAE CONTROL M770		
PROJ. ENG. C. BUTLER	DATE 10-7-69			
PROD. LASKEY	DATE 10-7-69			
FIRST USED ON KP15		SIZE D	CODE BS	NUMBER KE15-0-04
SCALE		REV. C		
SHEET 2 OF 2	DIST.			

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*NOTE: ONE FREE INST. AFTER JMS.CRL.PI EXCEPT WHEN IN USER MODE
TWO FREE INST. AFTER NORM

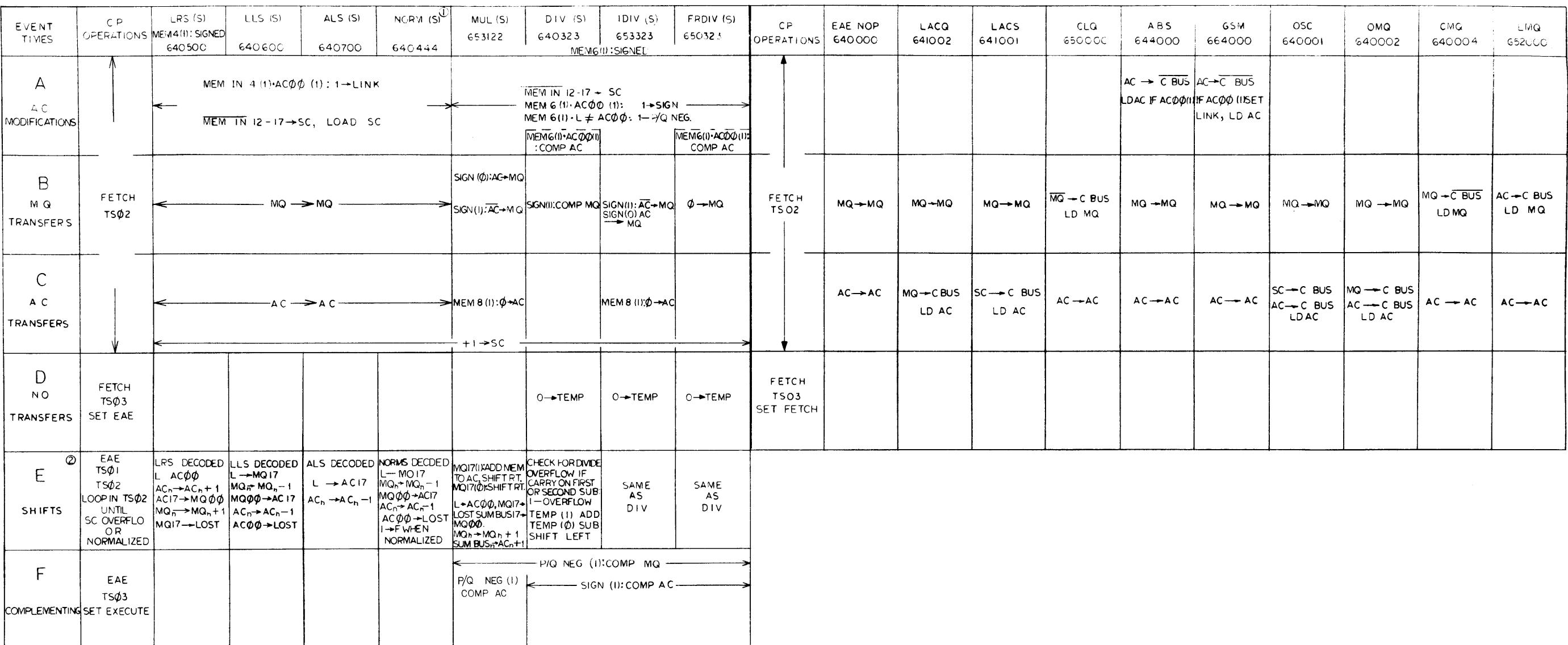
OPTIONAL ECO KP15-#50
KE04 FAE NORMS L WILL BE TIED TO
E29N2 IF ECO NOT INSTALLED

*NOTE: Q L TO MQ17
TEMP (0)=SUB
TEMP (1)=ADD

DRN. K COTE	DATE 10/15/69	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D. DU HOHOS	DATE 10/15/69	TITLE IR SIGN DIVIDE LOGIC	
ENG. F. HUMANN	DATE 10/77/69		
PROJ. ENG. G. BUTLER	DATE 10/77/69		
PROD. F. ASKEY	DATE 10/77/69		
FIRST USED ON KF-5		SIZE CODE	NUMBER
SCALE		D BS	KE15-0-05
SHEET 1 OF 1	DIST.		

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SETUP INSTRUCTIONS



- NOTE:
- AN INTERRUPT IS HELD OFF FOR 2 CYCLES AFTER A NORM INSTRUCTION TO ALLOW A DAC TO STORE THE STEP COUNTER.
 - DURING LRS LLS ALS AND NORM OPERATIONS SHIFTING IS DONE AT TWICE THE NORMAL PULSE RATE. SHIFT AT PHASE 1 AND PHASE 3 TIME

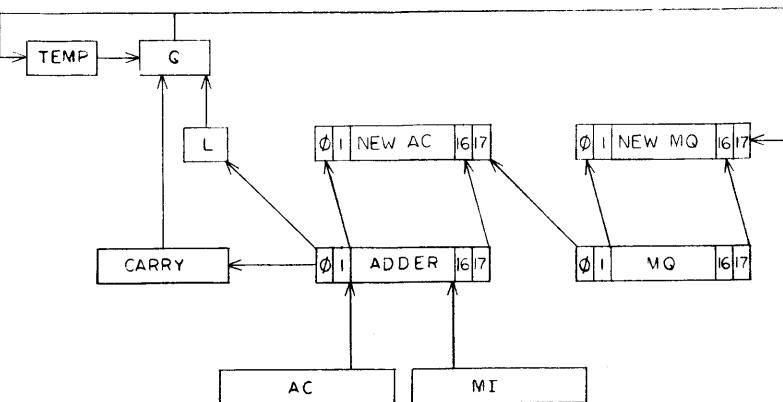
REVISIONS	CHANGE NO	REV
CHG	KP5-CC0082	A
REV	3-20-70	
CHG	F DOLL	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DRW 12/1/70	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	DATE	digital	HAYWARD MASSACHUSETTS
DIMENSION IN INCHES	CHK'D.		
TOLERANCES	DATE		
DECIMALS FRACTIONAL ANGLES	ENG 50	DATE	
= .005 ± 1/64 ± 0°30'	PROJ. ENG.	DATE	2-5-70
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE	
MATERIAL	DATE		
FIRST USED ON			
FINISH	SCALE	NUMBER	REV.
	1	KE15-4-46	A
	OF 1		
	DIST.		

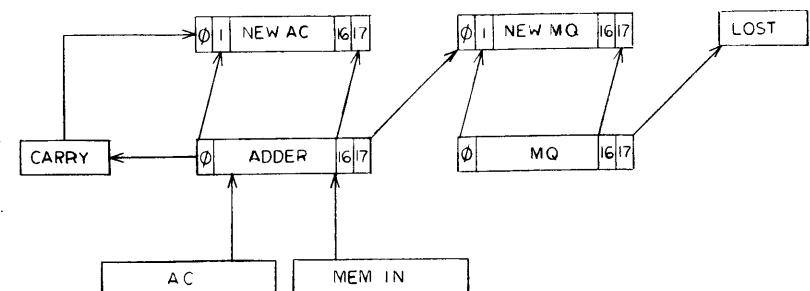
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8 7 6 5 4 3 2 1

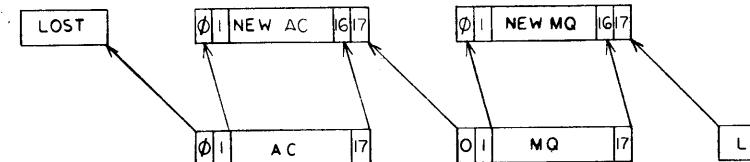
DIVIDE



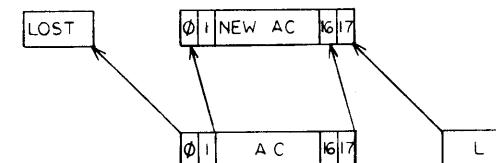
MULTIPLY



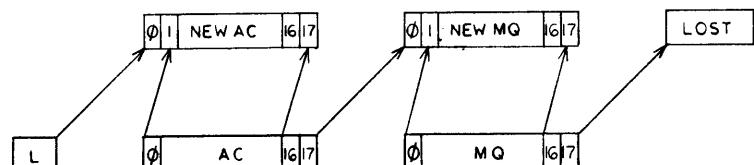
LLS, NORM



ALS



LRS



A
REV: _____
CHANGE NO: _____
C/NK: _____

DEC FORM NO
DD FORM 102A

8

7

6

5

4

3

2

1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRW:	DATE: 12/12/68	DATE:	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D:	DATE:	TITLE:	
ENG:	DATE: 2-5-70		
PROJ. ENG:	DATE: 2-5-70		
PROD:	DATE: 2-7-70		
MATERIAL:	++	FIRST USED ON:	KE15
FINISH:	++	SCALE:	+/+
		SHEET:	1 OF 1
		DIST.:	

DATA FLOW

SIZE CODE: DFD NUMBER: KE15-0-07 REV: _____

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4

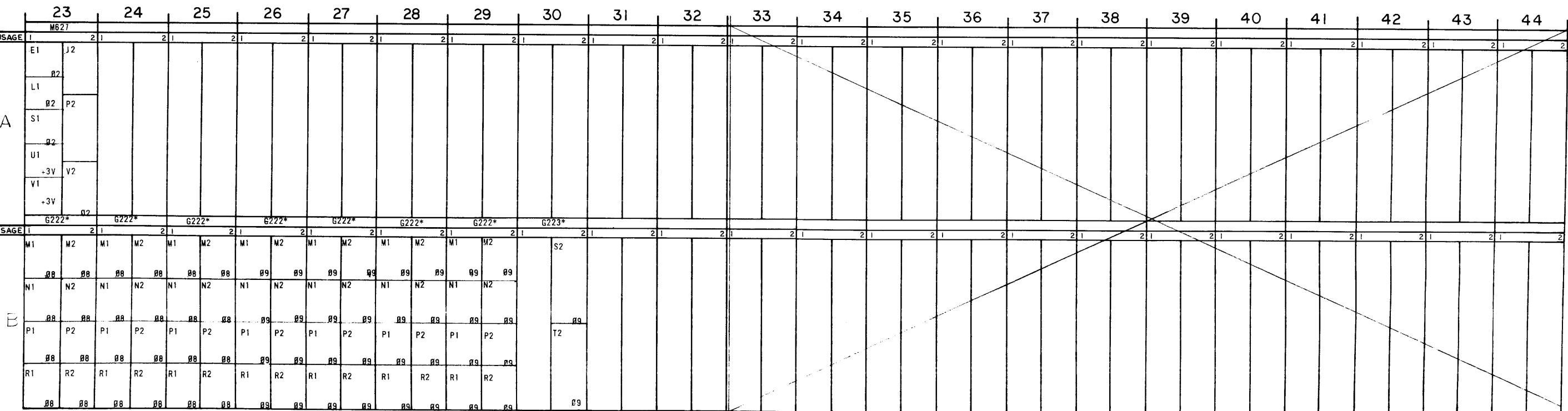
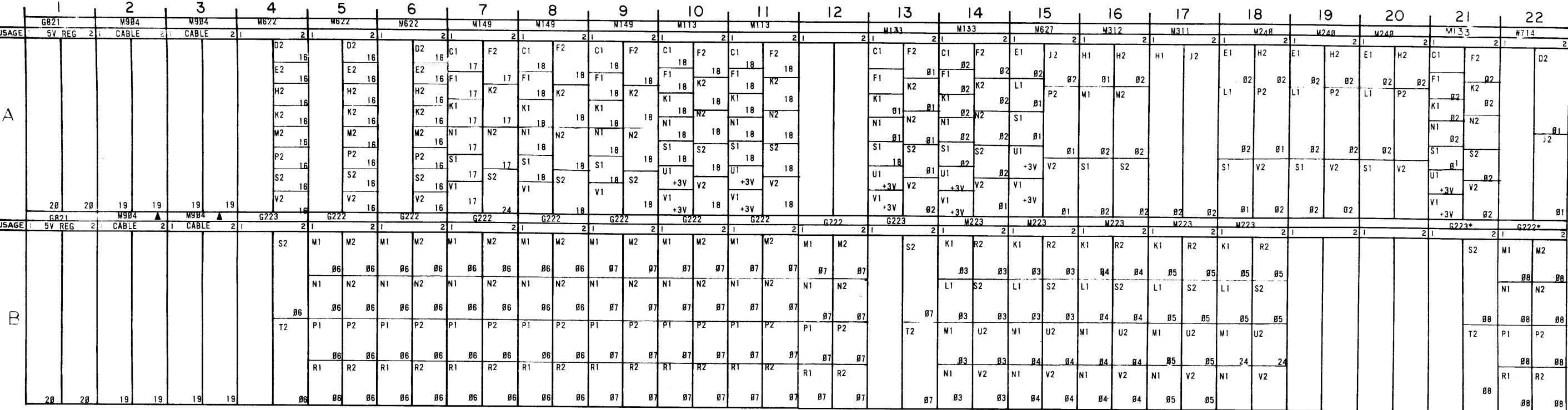
7

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3

1



▲ MODULE IS M966
TERMINATOR IF UNIT
IS LAST MM 15 ON
MDL LINES

REVISIONS			
CHK	CHANGE NO.	REV.	
MMI5-00018	C		
REDRAWN + REVISED			
AUMANN			
G. E. LINSER	9-31-70	D	
MMI5-00025			
AUMANN			
G. E. LINSER	7-27-73	E	
J. C. SWANSON	1-8-73		
MMI5-00027	F		
F. DOLL	7-6-73		

FIRST USED ON OPTION/MODEL	DO NOT SCALE DRAWING			DRN D.FONTAINE	DATE 8-4-69	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES						CHK'D. J. MADLEN	DATE 8-4-69	TITLE
	TOLERANCES			ENG. P.C. C-0	DATE 8-1-69	MODULE UTILIZATION			
	DECIMALS	FRACTIONS	ANGLES	PROJ. ENG. DESIGN C-	DATE 8-4-69				
	.005	$\pm 1/64$	$\pm 0^{\circ}30'$	PROD. FLASHKEY	DATE 8-4-69				
	FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS			NEXT HIGHER ASSY D-UA-FE-15-C-0					
MATERIAL									
FINISH	SCALE			SHEET 1 OF 2	DIST.	SIZE CODE D-MUNNIE-C-26	NUMBER C-26	REV. F	

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8

7

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1

D

D

C

C

D

E

B

B

D

A

REV.

REVISIONS

CHANGE NO.

CHK

REV.

REVISIONS

CHANGE NO.

CHK

DEC FORM NO.

DRD 12

8

7

6

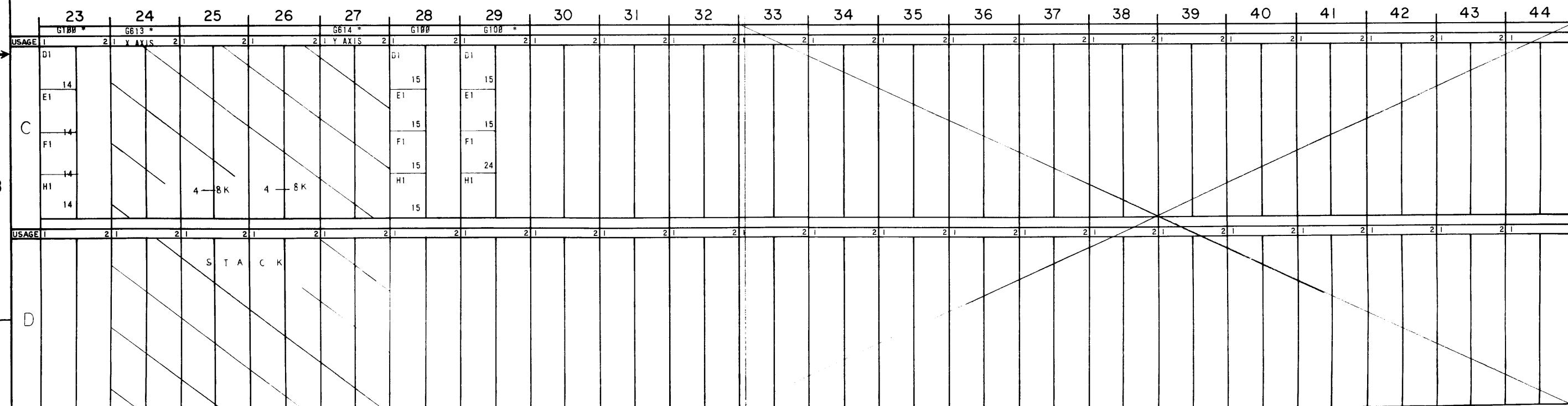
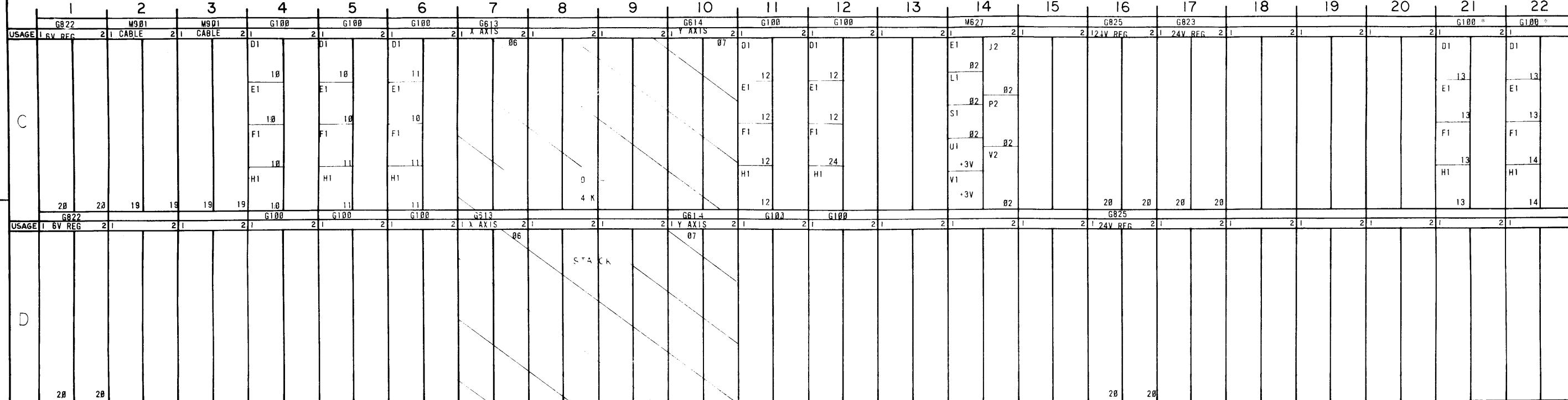
5

4

3

2

1



* FOR MK15 OPTION
NOTE CORE STACKS ARE
3009200-0-1 18 BITS
3009200-0-2 19 BITS (PARITY)

FIRST USED ON OPTION/MODEL

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED

DRN. DATE
DIMENSION IN INCHES

CHK'D. DATE

ENG. DATE

TITLE

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

MODULE UTILIZATION

PROJ. ENG. DATE

PROD. DATE

NEXT HIGHER ASSY

FINISH

SCALE

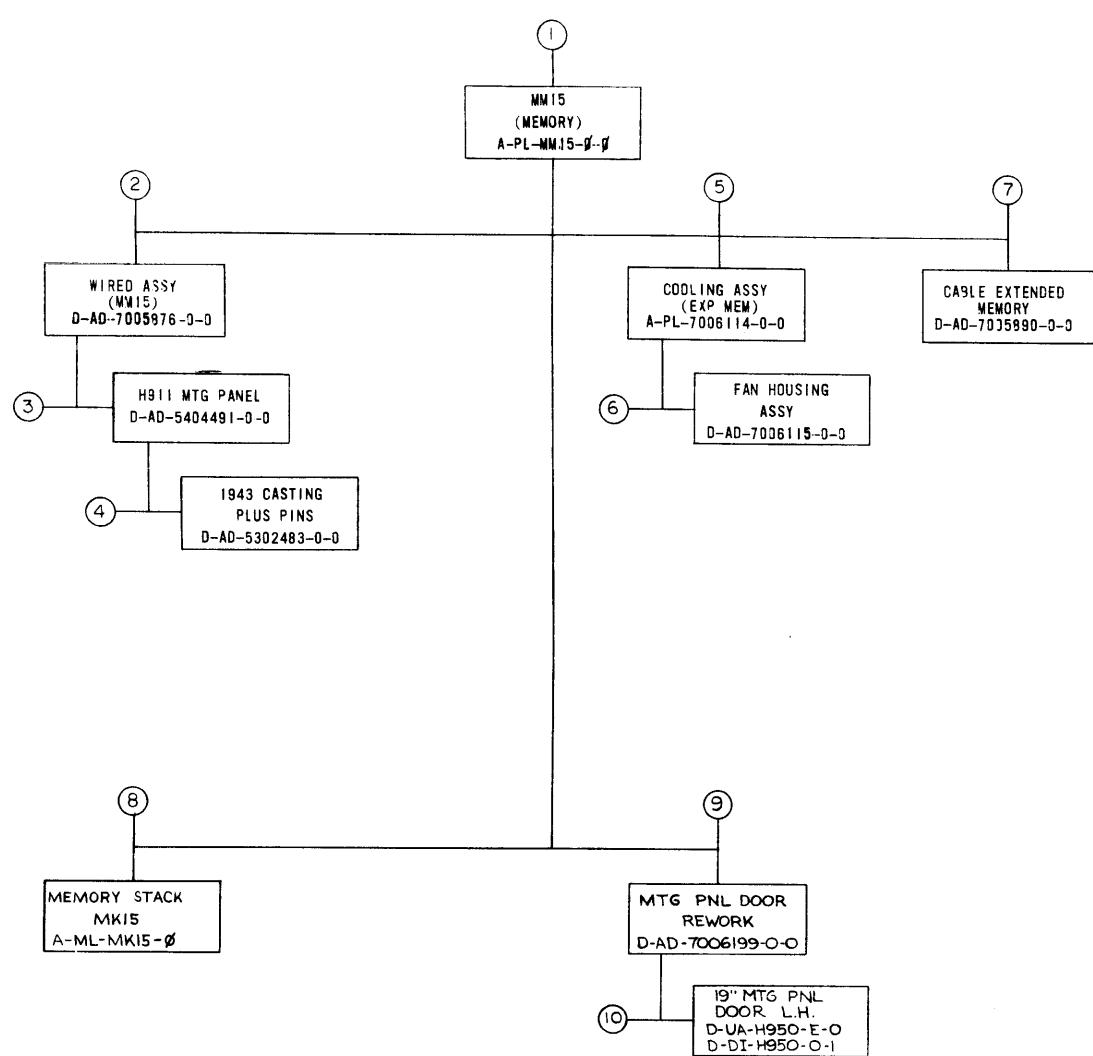
SHEET OF 2

SIZE CODE: D MU NUMBER: D-MU-115-C-26

REV. F

1

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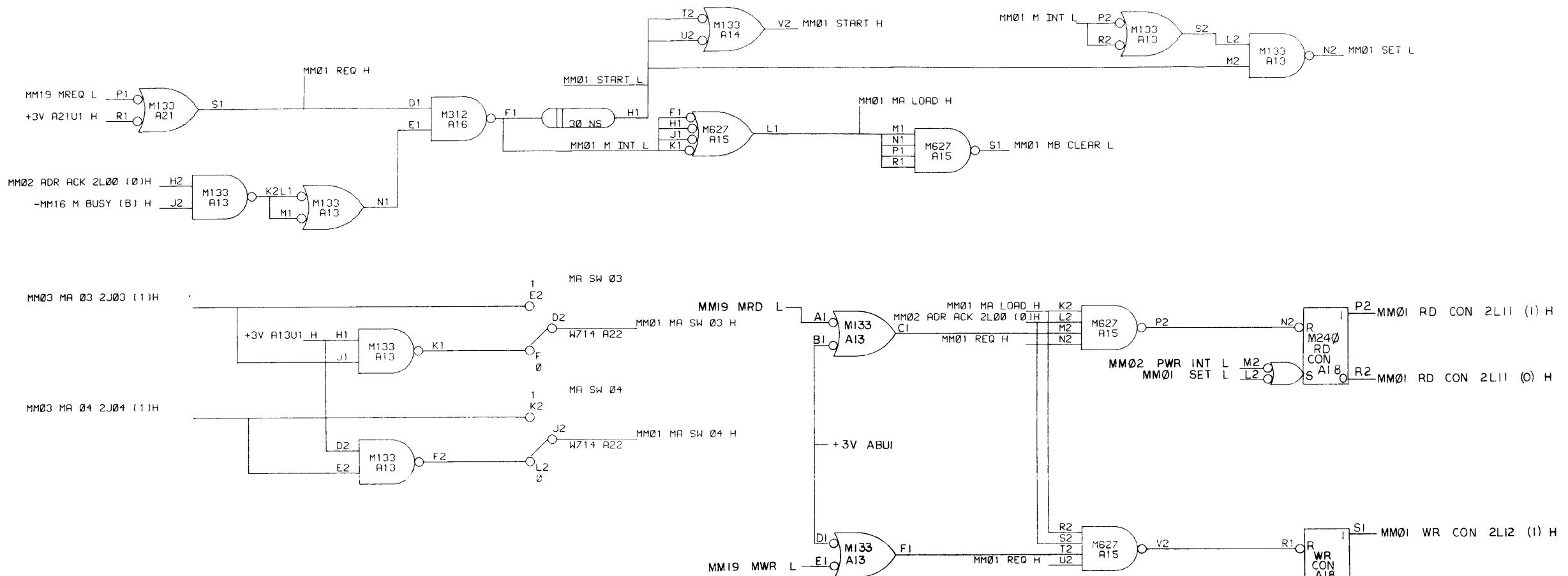


MECHANICAL						ELECTRICAL					
FIND NO.	DESCRIPTION	PART NO	PROD	CUST	E/C	FIND NO.	DESCRIPTION	PART NO	PROD	CUST	E/C
1	MM15 (MEMORY) CABLE M917 TO M917 CABLE M918 TO M918 CABLE FLAT CO-AX M9B4-M9B4 HARNESS EXT MEMORY MEMORY STACK (PDP15)(18BIT) MEMORY STACK (PDP15)(19BIT) BRACKET CABLE#2 BRACKET CABLE#1 UCES FOR #17 COMPRESS. -CARTON	A-PL-MM15-B-0 D-IA-7006094-0-0 D-IA-7006414-0-0 D-IA-BCB8B-B-0 E-IA-7036401-0-0 D-SC-3009200-1-0 D-SC-3009200-2-0 E-MD-7407279-O-C C-MD-7407278-O-C A-IT-37-17-1				1	MM15 (MEMORY) MEMORY CONTROL MEMORY CONTROL MA & MB REGISTERS B-5 MA & MB REGISTERS 06-11 MA & MB REGISTERS 12-17 X AXIS (B-4K) Y AXIS (B-4K) X AXIS (4-8K) Y AXIS (4-8K)	A-WL-MM15-B D-BS-MM15-B-1 D-BS-MM15-B-2 D-BS-MM15-B-5 D-BS-MM15-B-4 D-BS-MM15-B-5 D-BS-MM15-B-6 D-BS-MM15-B-7 D-BS-MM15-B-8 D-BS-MM15-B-9 D-BS-MM15-B-10 D-BS-MM15-B-11 D-BS-MM15-B-12 D-BS-MM15-B-13 D-BS-MM15-B-14 D-BS-MM15-B-15 D-BS-MM15-B-16 D-BS-MM15-B-17 D-BS-MM15-B-18 D-IC-MM15-B-19 D-BS-MM15-B-20 D-TD-MM15-B-21 D-BS-MM15-B-22 D-BS-MM15-B-23 D-BS-MM15-B-24 K-WL-MM15-B-27 D-MU-MM15-B-26 A-PL-MM15-O-26 A-WL-MM15-O-28			
2	WIRED ASSY (MM15) WIRED ASSY (MM15)(P.L.) LOGIC FRAME DECALS	D-AD-7005876-0-0 A-PL-7005876-0-0 A-DC-7406371-0-0				2	WIRED ASSY (MM15) WIRED ASSY (MM15)(PL)	D-AD-7005876-0-0 A-PL-7005876-0-0			
3	H911 MTG PANEL H911 MTG PANEL (PL) 238 PIN CONN. BLOCK #H003	D-AD-5404491-0-0 A-PL-5404491-0-0 E-SC-1205348-0-0				3	MEMORY BUS DRIVERS INDICATOR BUS DRIVERS INDICATOR BUS DRIVER	D-BS-MM15-B-16 D-BS-MM15-B-17 D-BS-MM15-B-18			
4	1943 CASTING PLUS PINS 1943 CASTING PLUS PINS (PL) 1943 FRAME CASTING	D-AD-5302483-0-0 A-PL-5302483-0-0 E-MD-1202885-0-0				4	I/O MEMORY CABLES MEMORY POWER REGULATORS TIMING DIAGRAM X DIODE MATRIX Y DIODE MATRIX PARITY BIT WIRE LIST MM15 MODULE UTIL (MM15) MEMORY MODULE LIST GENERAL WIRING SHEET	D-IC-MM15-B-19 D-BS-MM15-B-20 D-TD-MM15-B-21 D-BS-MM15-B-22 D-BS-MM15-B-23 D-BS-MM15-B-24 K-WL-MM15-B-27 D-MU-MM15-B-26 A-PL-MM15-O-26 A-WL-MM15-O-28			
5	COOLING ASSY (EXP MEM) DOOR (EXP MEM) HINGE, DOOR ENCLOSURE (EXP MEM)	A-PL-7009114-0-0 D-IA-7407294-0-0 C-MD-7406896-0-0 D-MD-7407293-0-0				5					
6	FAN HOUSING ASSY FAN HOUSING ASSY PL DECAL, FAN HOUSING FAN HOUSING	D-AD-7006115-0-0 A-PL-7006115-0-0 A-DC-7407314-0-0 D-IA-7407287-O-C				6					
7	CABLE (EXT MEMORY) CABLE M918 TO M918 CABLE FLAT CO-AX M9B4 TO M9B4	D-AD-7005890-0-0 C-IA-7006414-2-0 D-UA-BCB8B-5-0				7					
8	MEMORY STACK MK15	A-ML-MK15-B				8	MK15 MEMORY STACK MODULE UTIL (MK15)	A-ML-MK15-B K-MB-MK15-B-1			
9	19" MTG PNL DR REWORK 19" MTG PNL DR REWORK (P.L.)	D-AD-7006199-0-0 A-PL-7006199-0-0				9					
10	H950-E 19" MTG PNL DR (L.H.) H950-E 19" MTG PNL DR (L.H.) (P.L.) DWG INDEX H950	D-UA-H950-E-O A-PL-H950-E-O D-DI-H950-O-I				10					

FIRST USED ON OPTION / MODEL		PARTS LIST	
PDP15		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRAC. 1/16 1/32 1/64 1/128 ANGLES = .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRN. 5-11 DATE 7-27-71 CHK'D. Marshall DATE 7-27-71 ENG. 1 DATE 7-27-71 PROJ. ENG. 150 Comm. DATE 7-27-71 PROD. 1 DATE 7-27-71 NEXT HIGHER ASSY	
MATERIAL		TITLE	
FINISH		DRAWING INDEX (MM15)	
SCALE + - +	SHEET 1 OF 1	SIZE CODE D DT NUMBER MM15 0-25	REV. E
+	+	DIST. 6	

REVISIONS	CHANGE NO.	REV.	DATE
CHG. 000006	MM15-000006	A	7-27-71
Rev. 1	Lawrence	B	7-27-71
Rev. 2	Aumann	C	7-27-71
Rev. 3	Collins	D	7-27-71
Rev. 4	MM15-00021	E	7-27-71
Rev. 5	Lawrence	F	7-27-71
Rev. 6	MM15-00023	G	7-27-71
Rev. 7	Aumann	H	7-27-71
Rev. 8	Collins	I	7-27-71

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FOR 4K WRAP AROUND
DELETE:
B13D2-B15S1
B15S1-A21P2
A17F2-A14N1

ADD:
A17F2-A23K1
A22D2-A22J2
A22J2-A21V1
C21S1-C21T1
A21P2-B13D2
A21P2-A23U1

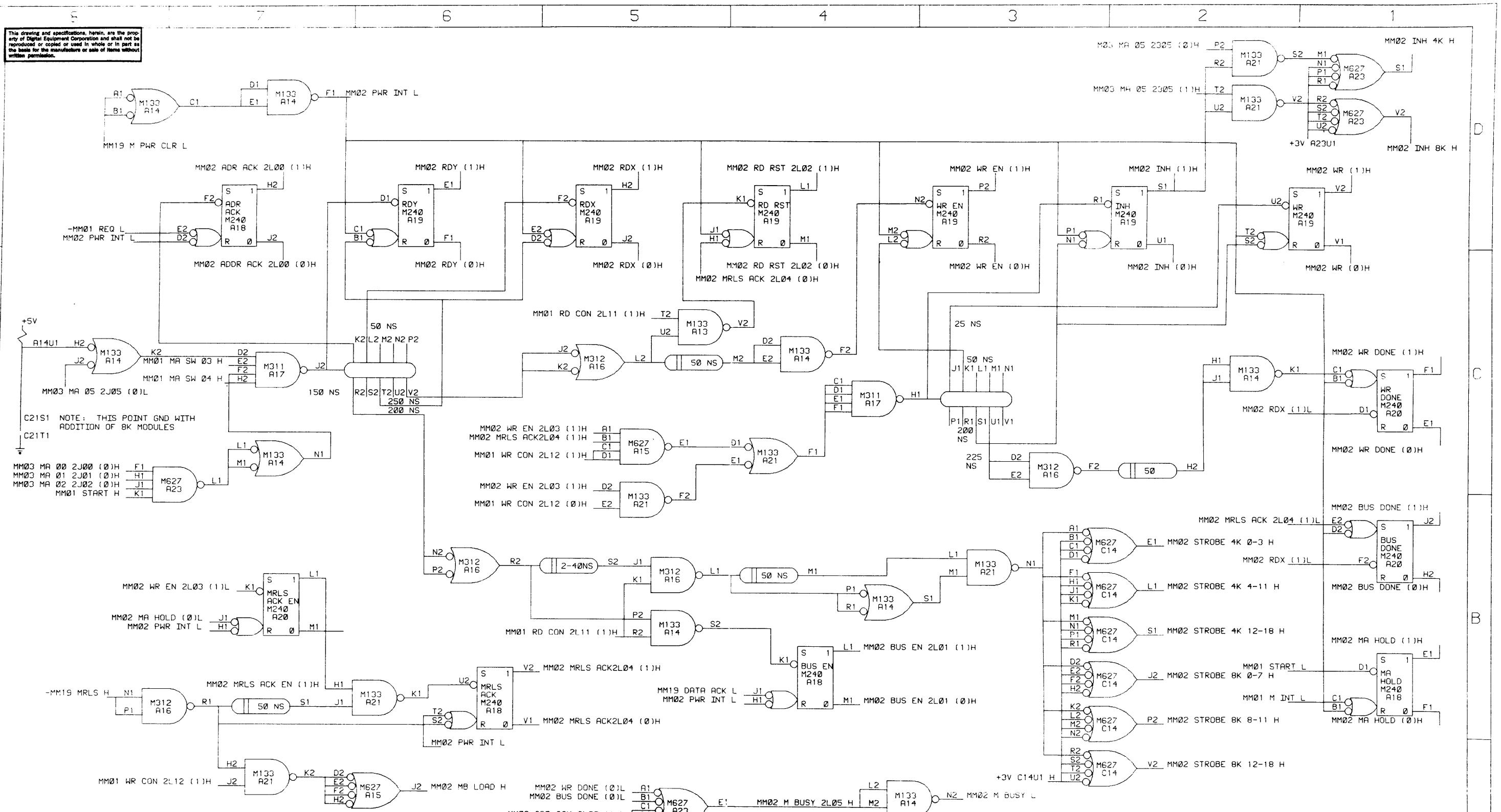
REMOVE W714 FROM A22

FOR 8K WRAP AROUND
ADD:
A22D2-A22J2
A22J2-A21V1

MEMORY BANK SECTION		
BANK	UPPER SW	LOWER SW
0-8K	0	0
8-16K	0	1
16-24K	1	0
24-32K	1	1

REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
NR	MM15-00001	H	H	LAVOIE	2 21-73 D
K BOGGS	9/10/69				
G O'CONNOR	9/18/69				
NR	MM15-00009	B			
KATHY COTE	2/3/70				
G O'CONNOR	2/4/70				
AJC	MM15-00001	D			
MM15-00025	D				

DRN.	DATE	digital EQUIPMENT CORPORATION
E. VOWLES	8/15/69	
CHK'D.	DATE	MAYNARD, MASSACHUSETTS
N. RHEAULT	8/15/69	
ENG.	DATE	
G. O'CONNOR	8/15/69	MEMORY CONTROL
PROJ. ENG.	DATE	
G. O'CONNOR	8/15/69	
PROD.	DATE	
F. LRSKEY	8/15/69	
FIRST USED ON		
MM15	SIZE CODE	NUMBER
	D BS	MM15-0-01
SCALE		REV.
SHEET 1 OF 1		D
		DIST.

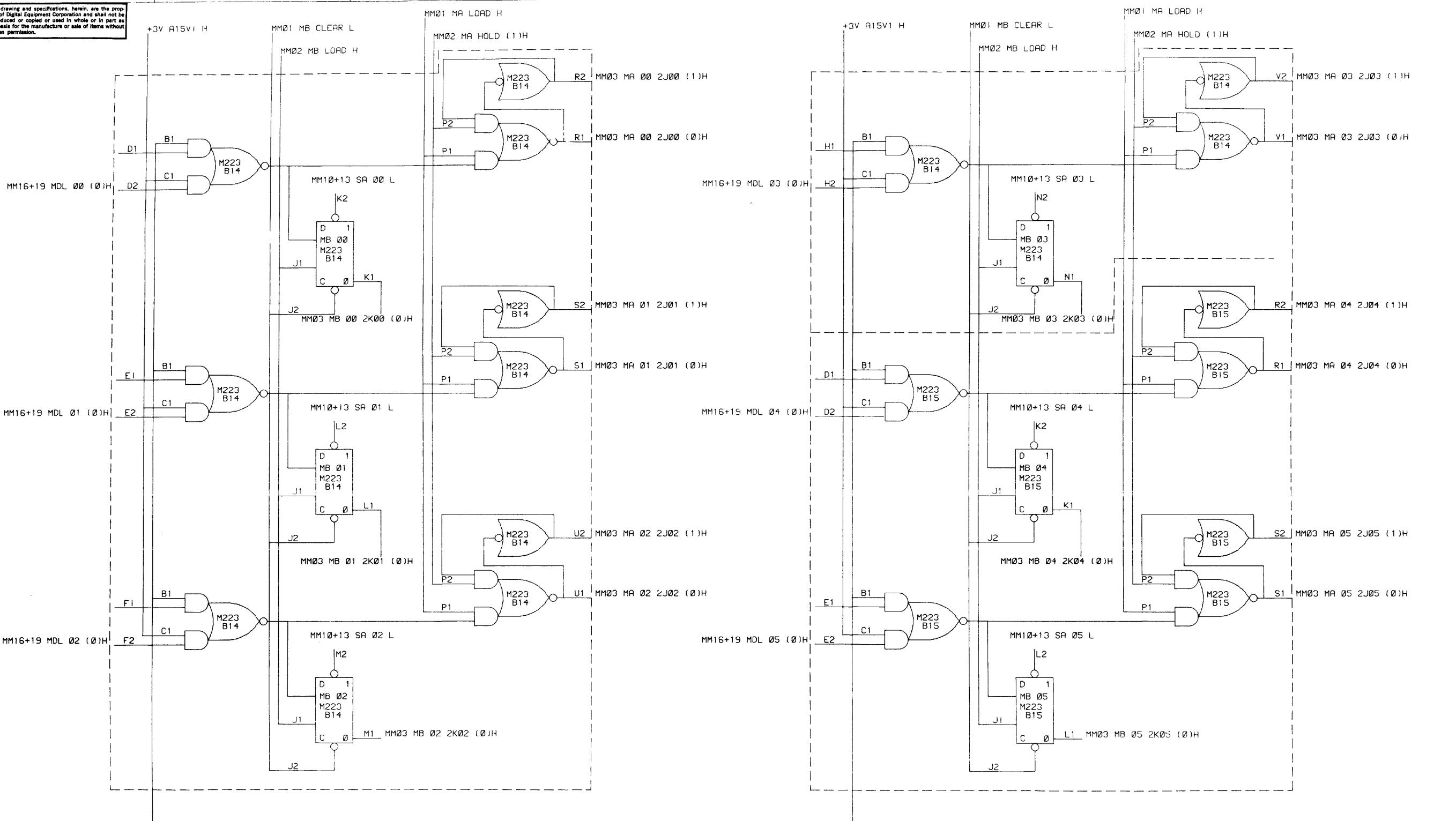


REVISIONS		
CHK	CHANGE NO.	REV.
NR	MM15-00005	
	A WASHINGTON	1/14/70
	C O'CONNOR	1/13/70
NR	MM15-22205	B
	F HENRY	1/14/70
	F HENRY	1/14/70
	MM15-22215	C
	MM15-22215	D

DRN. E. VOYLES	DATE 3/15/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D. N. RHEAULT	DATE 3/15/69		
ENG. D. O'CONNOR	DATE 3/15/69	TITLE MEMORY CONTROL	
PROJ. ENG. D. O'CONNOR	DATE 3/15/69		
PROD. F. FLASKEY	DATE 3/15/69		
FIRST USED ON MM15			
SCALE	SIZE CODE D BS	NUMBER MM15-0-2	REV. C
SHEET 1 OF 1	DIST.		

8 7 6 5 4 3 2 1

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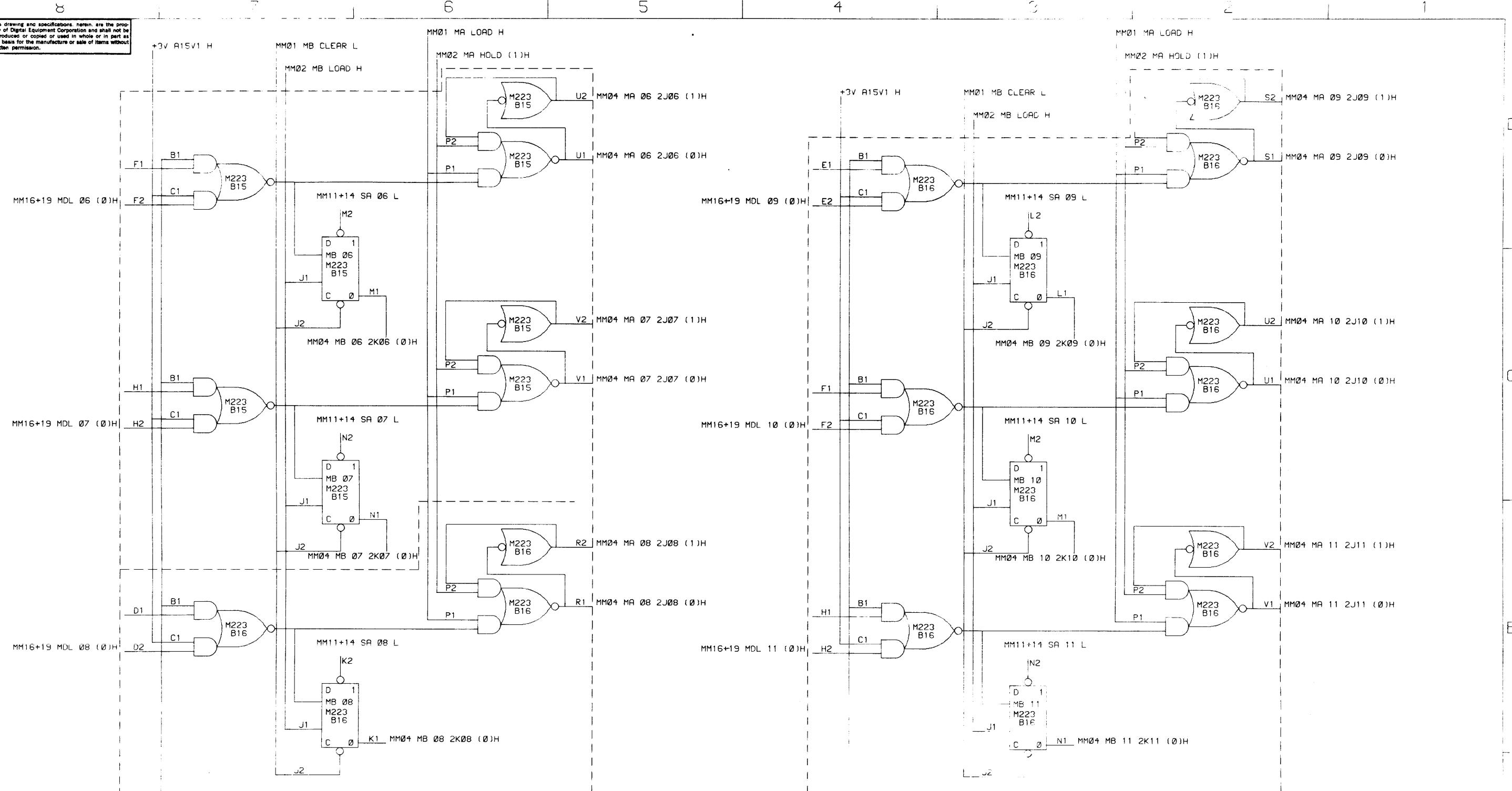


REVISIONS		
CHK	CHANGE NO.	REV.

DRN. E.VOWLES	DATE 8-14-69		
CHK'D. W.PHEALTY	DATE 8-15-69		
ENG. D.E.BROWN	DATE 8-15-69		
PROJ. ENG. D.E.O'CONNOR	DATE 8-15-69		
PROD. F.LASKEY	DATE 8-15-69		
FIRST USED ON MM15			
SCALE	SIZE CODE D BS	NUMBER MM15-0-3	REV. 00
SHEET 1 OF 1	DIS1.		

2 1 1/2

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REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.
PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION		
CHK'D.	DATE	MAYNARD, MASSACHUSETTS		
ENG.	DATE	TITLE		
PROJ. ENG.	DATE	MA+MB REGISTERS 06-11		
PROD.	DATE			
FIRST USED ON				
MM15		SIZE	CODE	NUMBER
SCALE	D BS	MM15-0-4		REV. 0A
SHEET 1 OF 1	DIST.			

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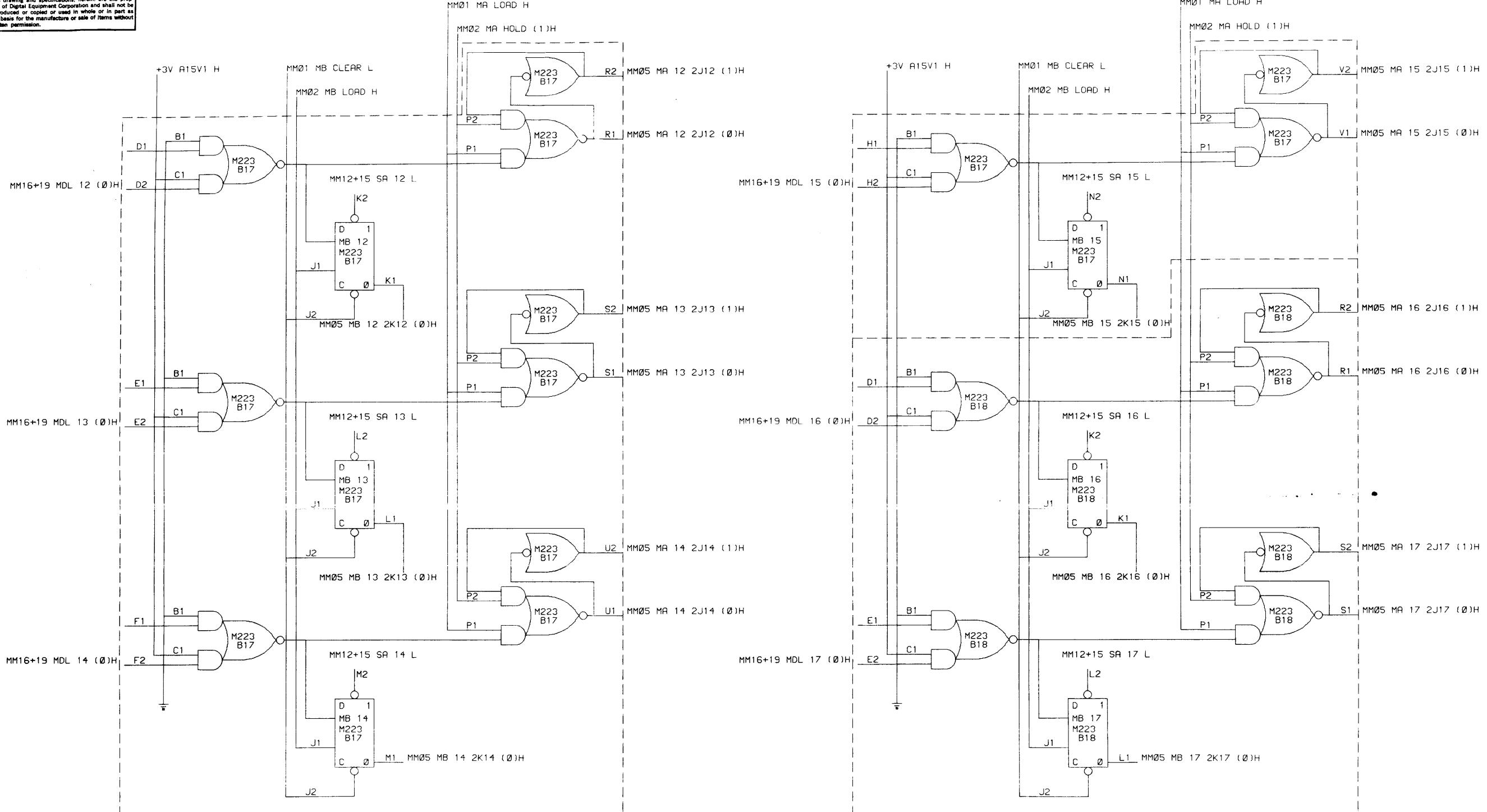
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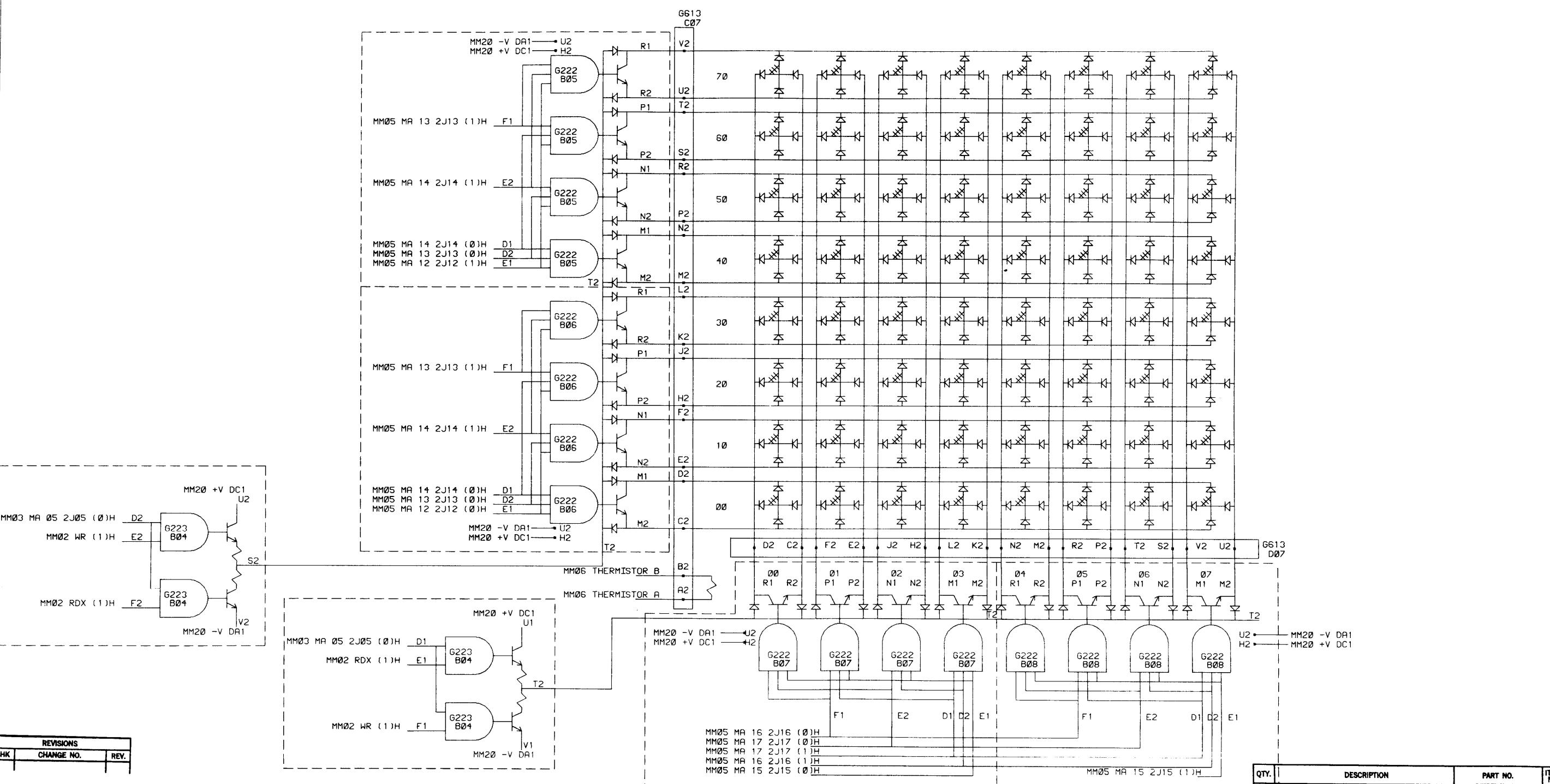
REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.
PARTS LIST				
DRN.	DATE			
CHK'D.	DATE			
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
FIRST USED ON				
MM15				
SCALE	CODE	NUMBER		REV.
SHEET	D BS	MM15-0-5		00
OF			DIST.	

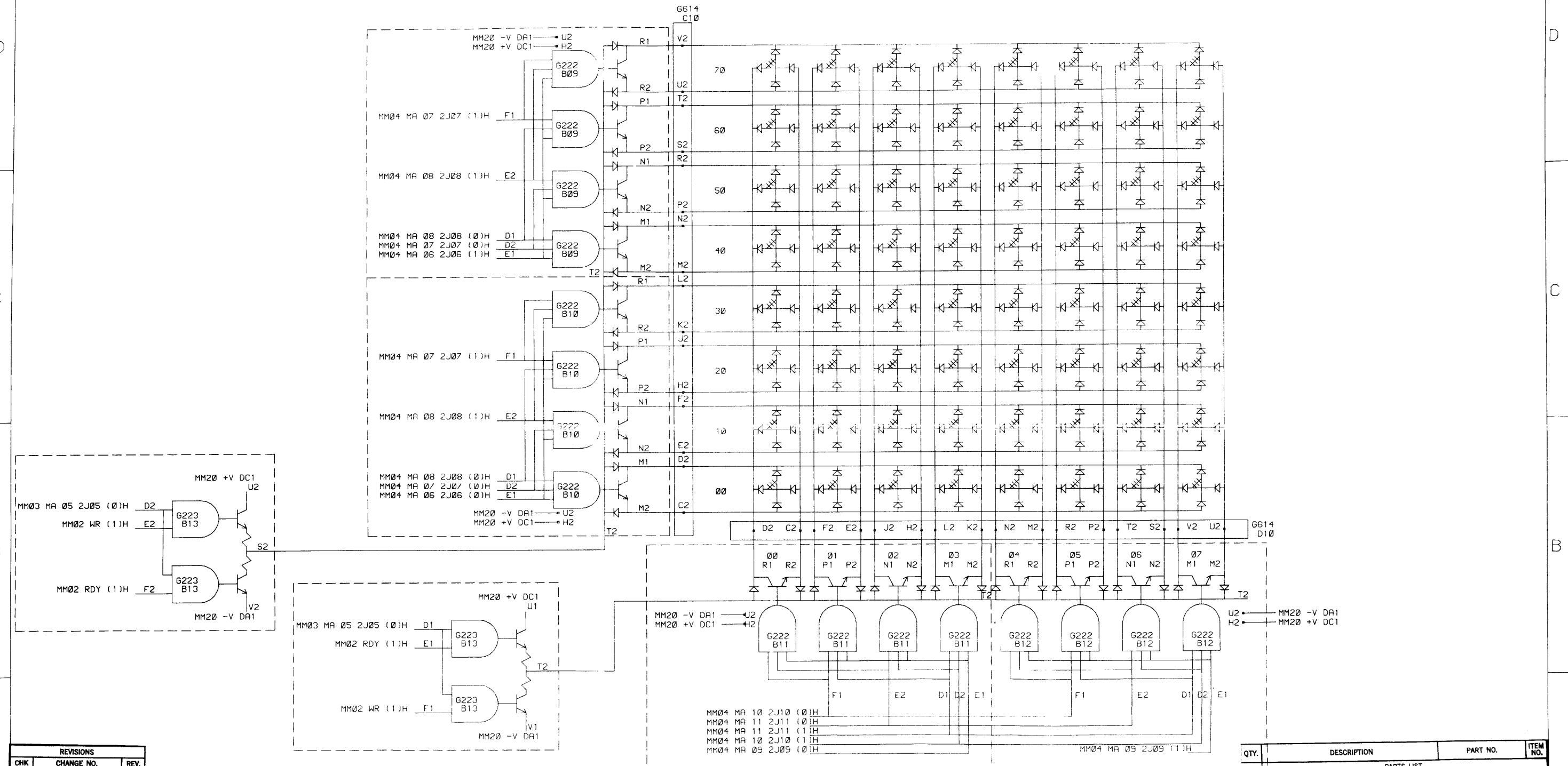
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
MA+8 REGISTERS 12-17

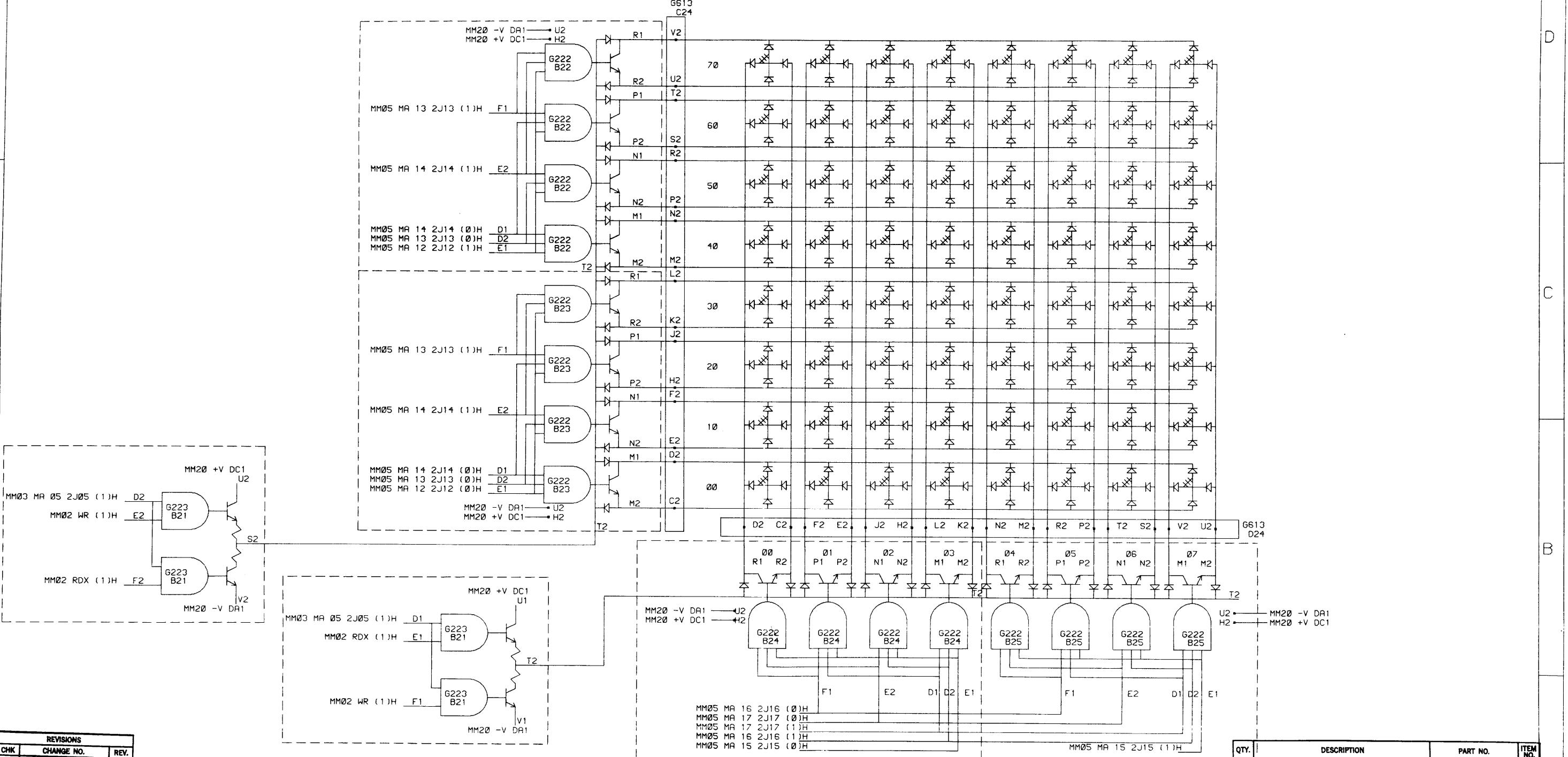
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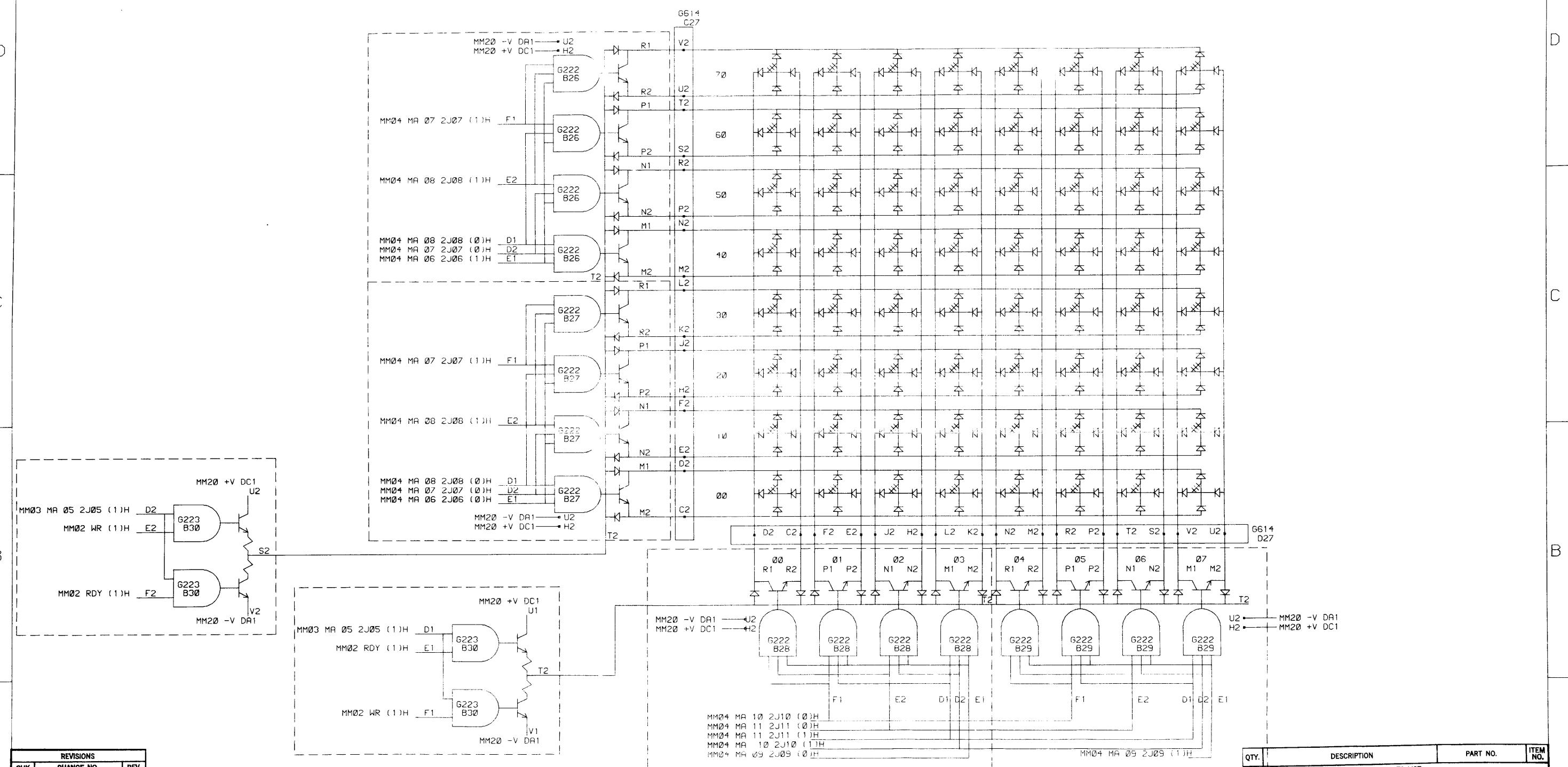


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QTY.	DESCRIPTION		PART NO.	ITEM NO.
PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION		
CHK'D.	DATE	MAYNARD, MASSACHUSETTS		
ENG.	DATE	TITLE		
PROJ. ENG.	DATE	X AXIS (4-8K)		
PROD.	DATE			
FIRST USED ON				
MM15		SIZE	CODE	NUMBER
SCALE	D BS	MM15-0-8		REV. 00
SHEET 1 OF 1	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	DATE	digital EQUIPMENT CORPORATION	
CHK'D.	DATE	MAINTAIN MASSACHUSETTS	
ENG.	DATE	TITLE	
PROJ. ENG.	DATE	Y AXIS (4-8K)	
PROD.	DATE		
FIRST USED ON			
MM15			
SIZE CODE		NUMBER	REV.
D 1/BS	MM15-0-9		00
SCALE		DIST.	
SHEET 1 OF 1			

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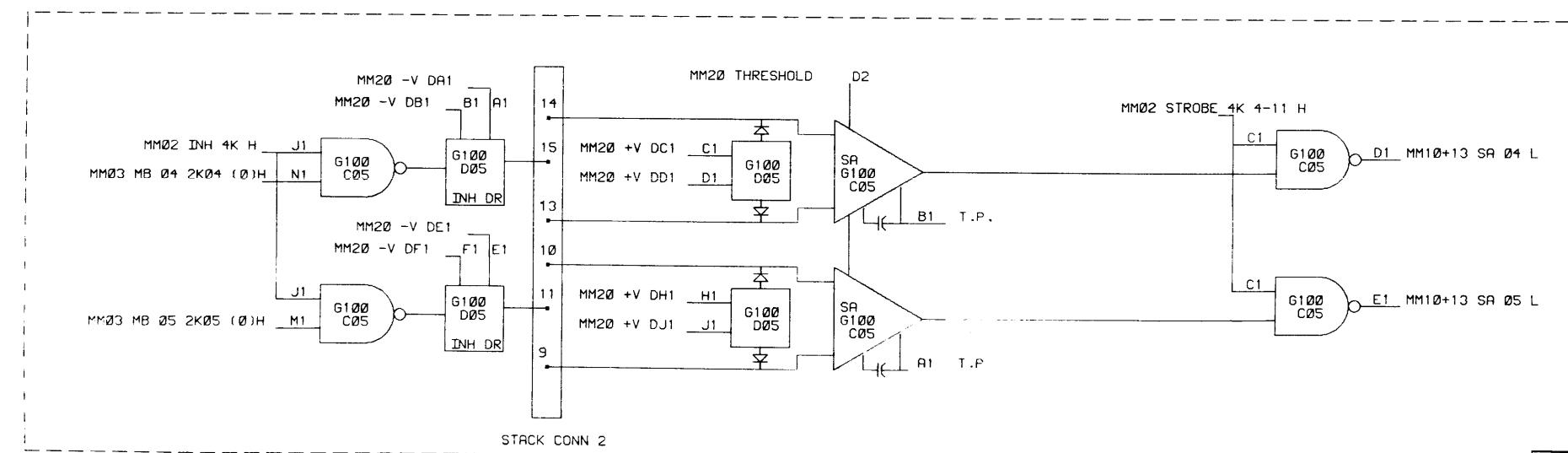
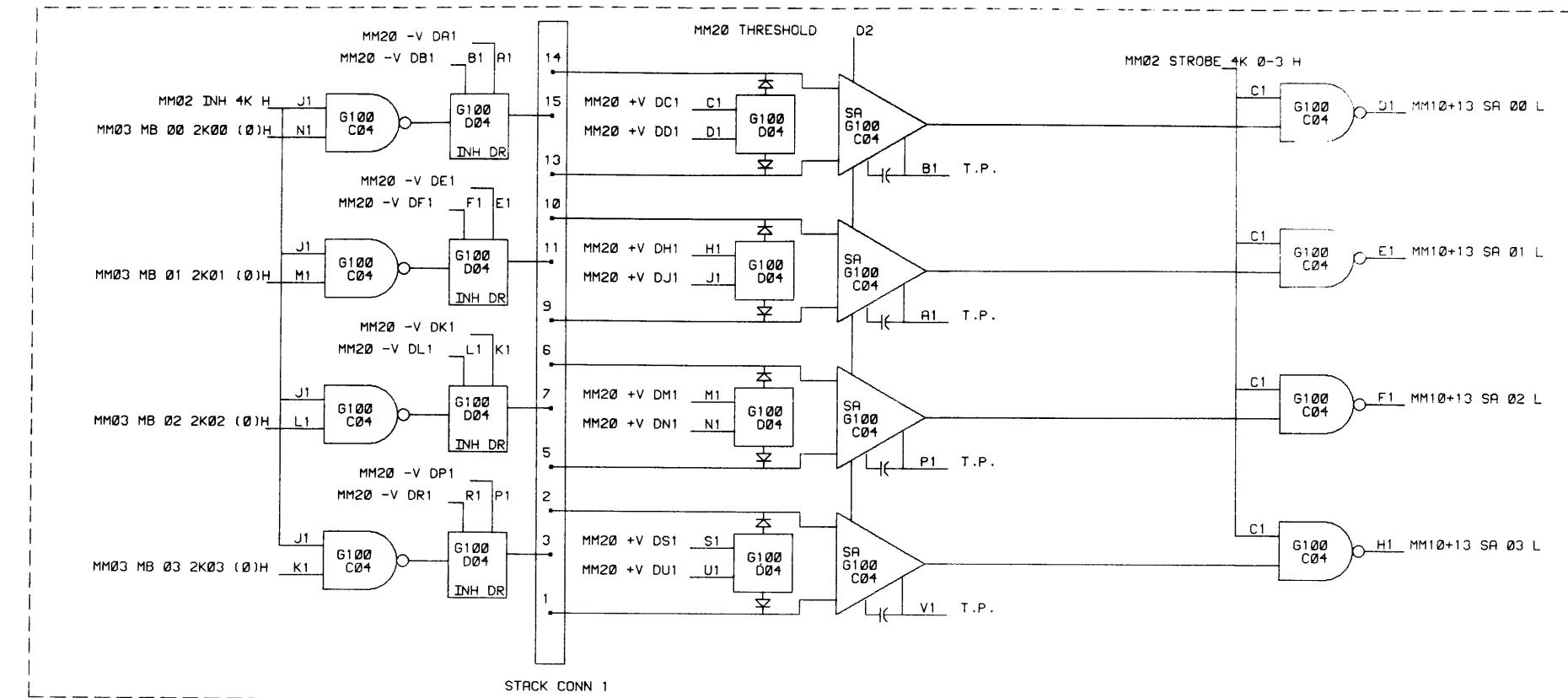
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REVISIONS		
CHK	CHANGE NO.	REV.

PARTS LIST	
DRN.	DATE
CHK'D.	DATE
ENG.	DATE
PROJ. ENG.	DATE
PROD.	DATE
FIRST USED ON	
MM15	
SCALE	
SHEET 1 OF 1	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
SENSE AMP + INH DRIVER (0-4K)

SIZE CODE	NUMBER	REV.
D BS	MM15-0-10	00
DIST:		

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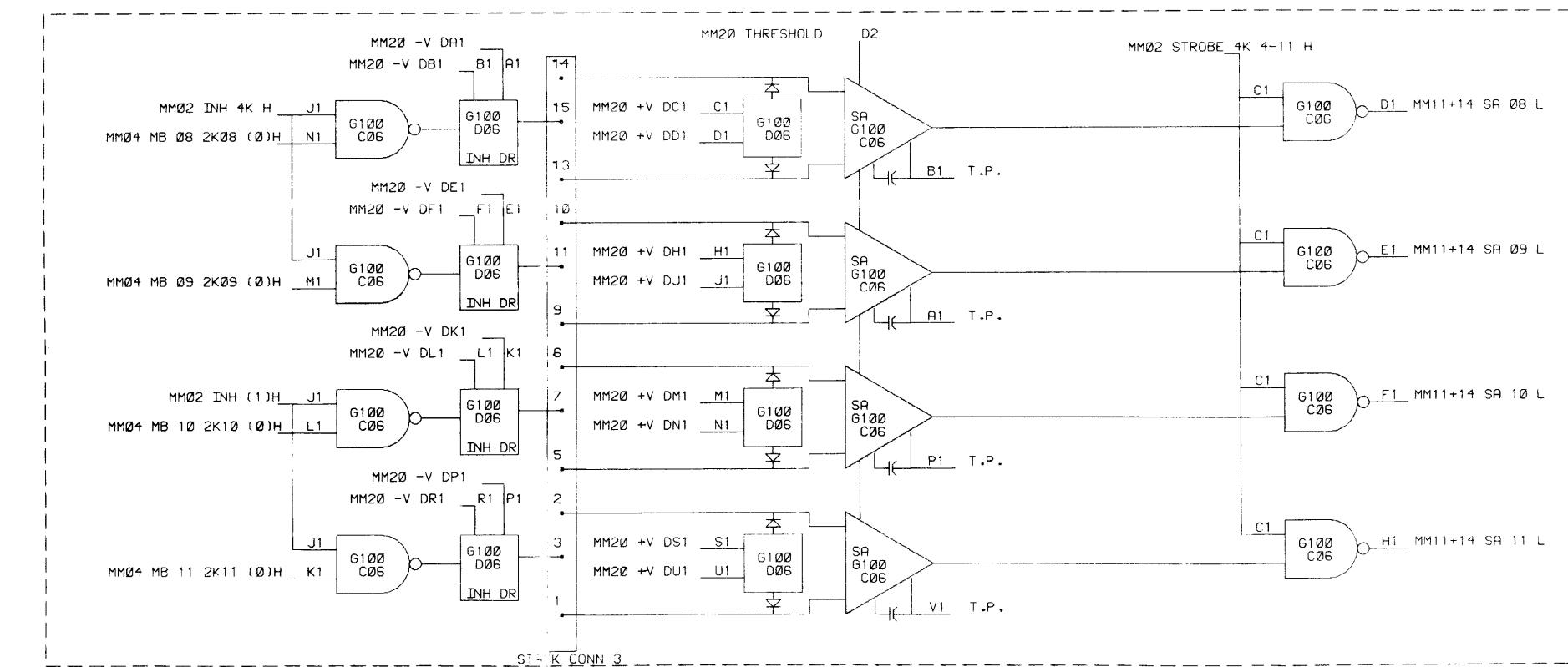
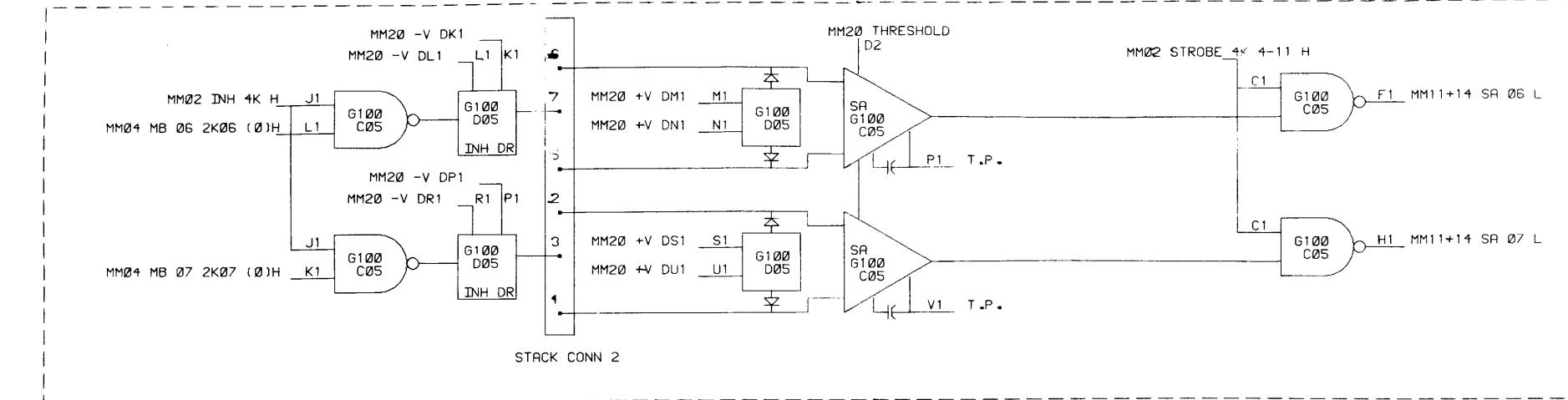
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REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.
	PARTS LIST			
DRN.	DATE	digital	EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS
CHK'D.	DATE		TITLE	SENSE AMP + INH DRIVER (0-4K)
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
FIRST USED ON				
MM15				
SCALE	SIZE	CODE	NUMBER	REV.
	D	BS	MM15-0-11	00
SHEET	1	OF	1	DIST.

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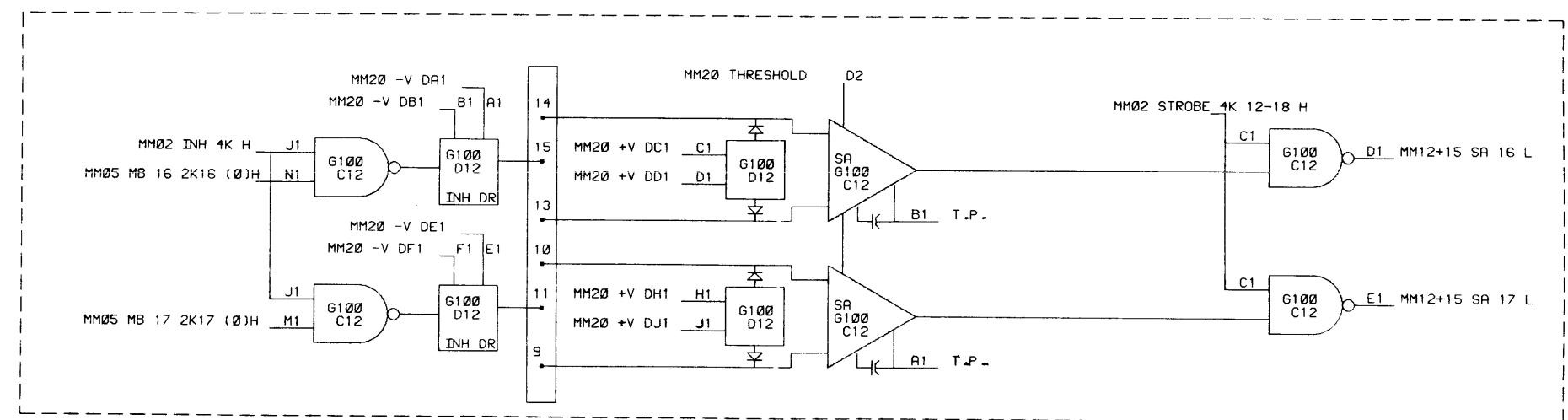
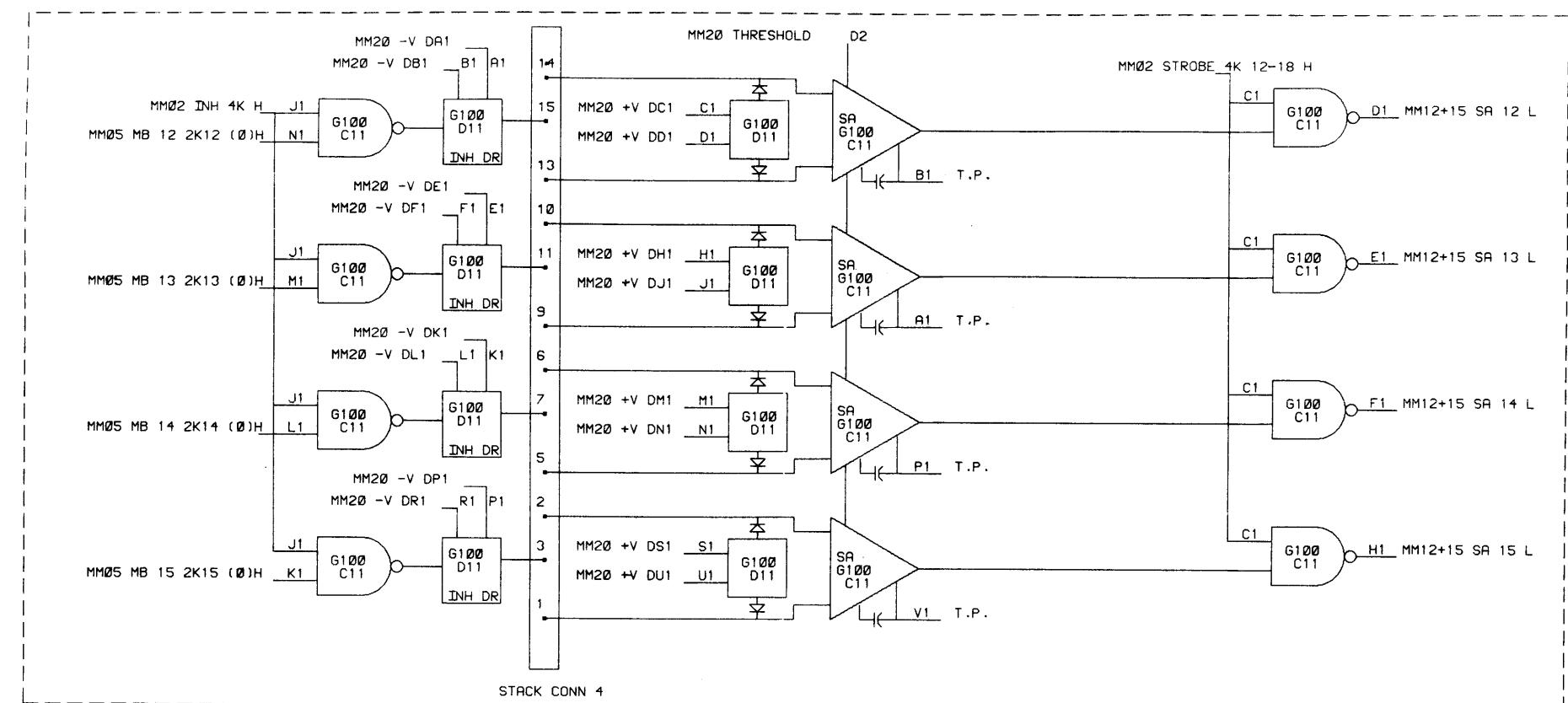
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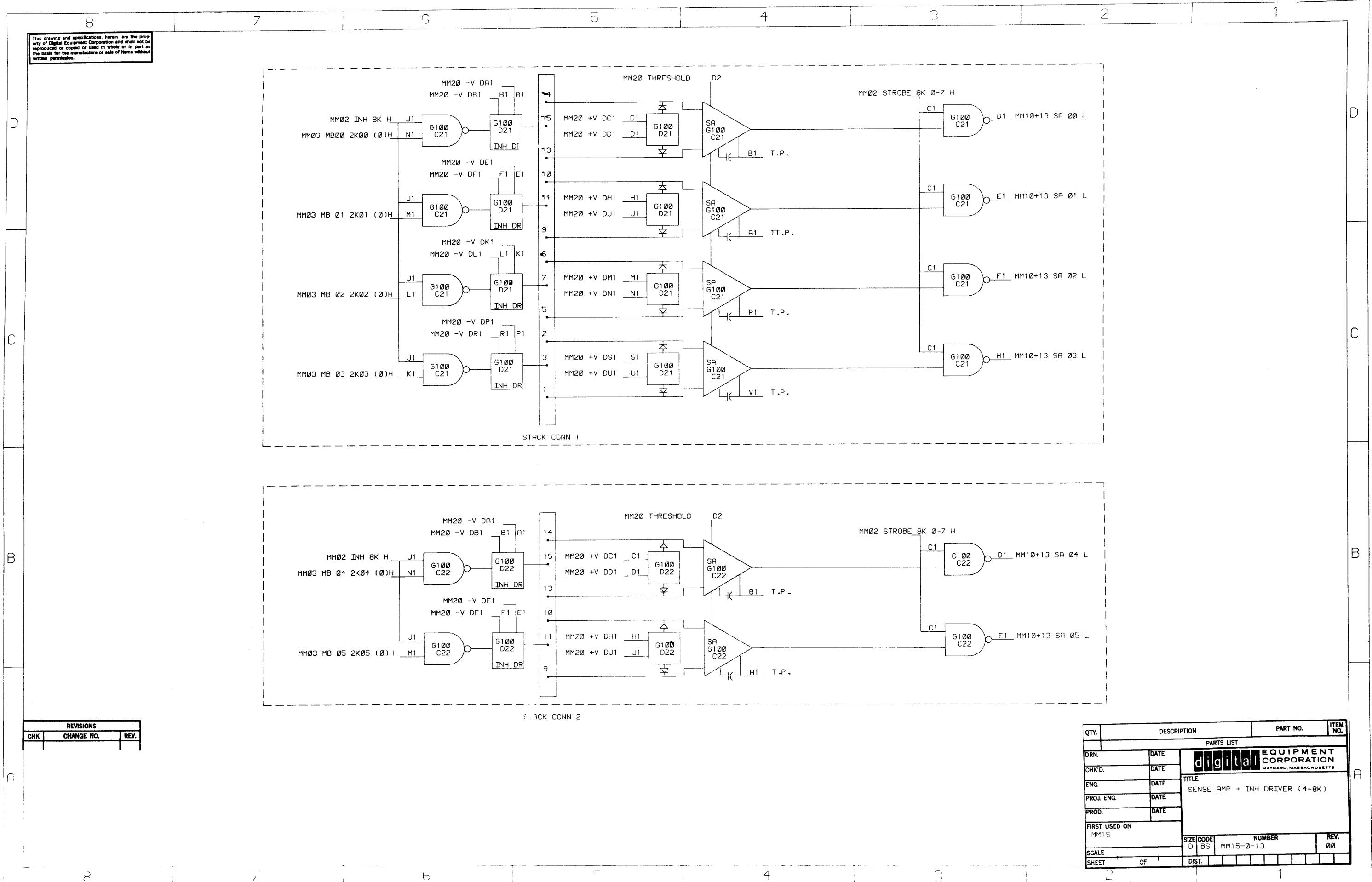
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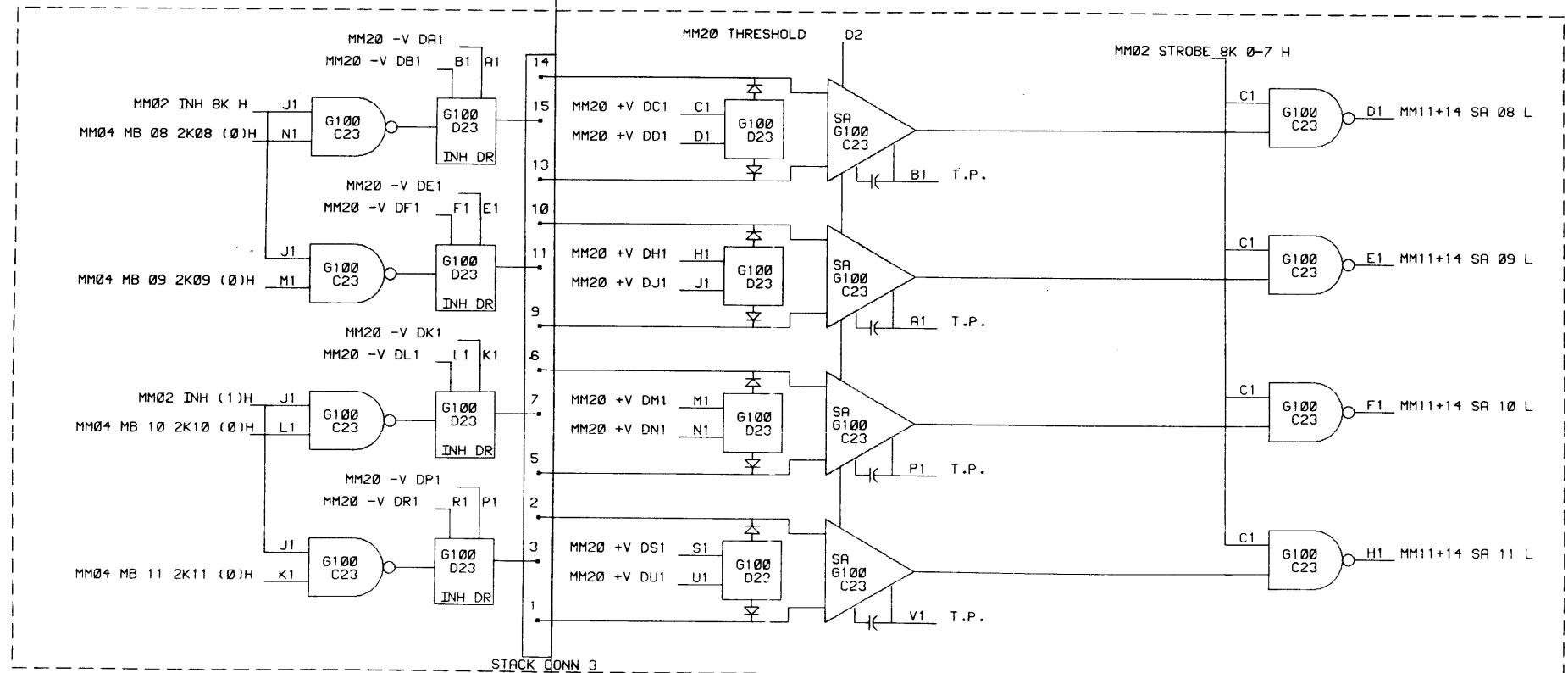
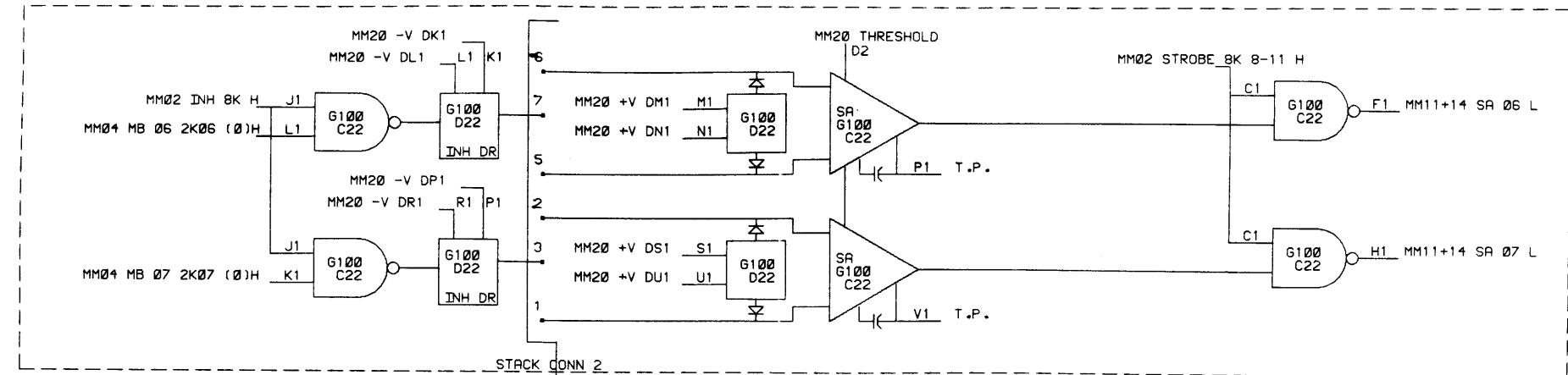


REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.
	PARTS LIST			
DRN.	DATE	digital EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS
CHK'D.	DATE			
ENG.	DATE	TITLE		
PROJ. ENG.	DATE	SENSE AMP + INH DRIVER (0-4K)		
PROD.	DATE			
FIRST USED ON				
MM15				
SCALE	D BS	NUMBER	REV.	
SHEET 1 OF 1		MM15-B-12	00	
		DIST.		

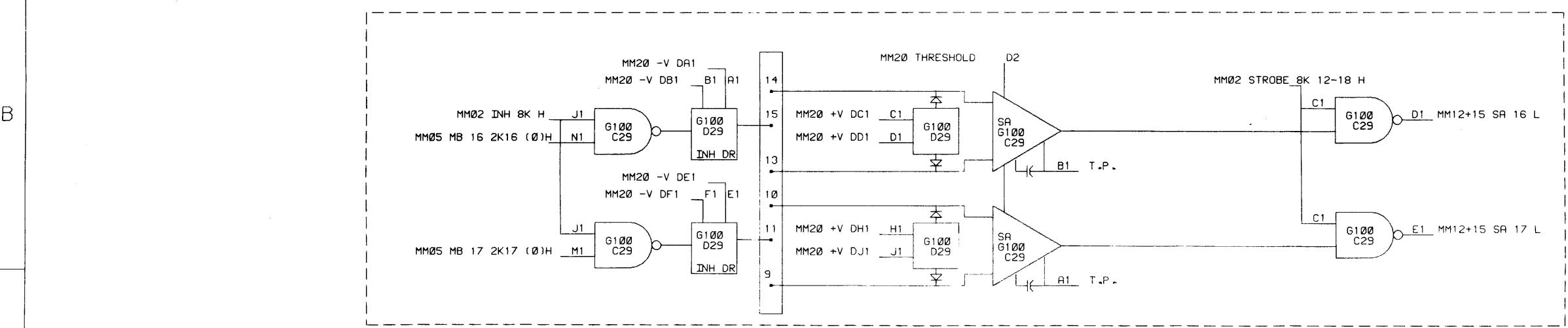
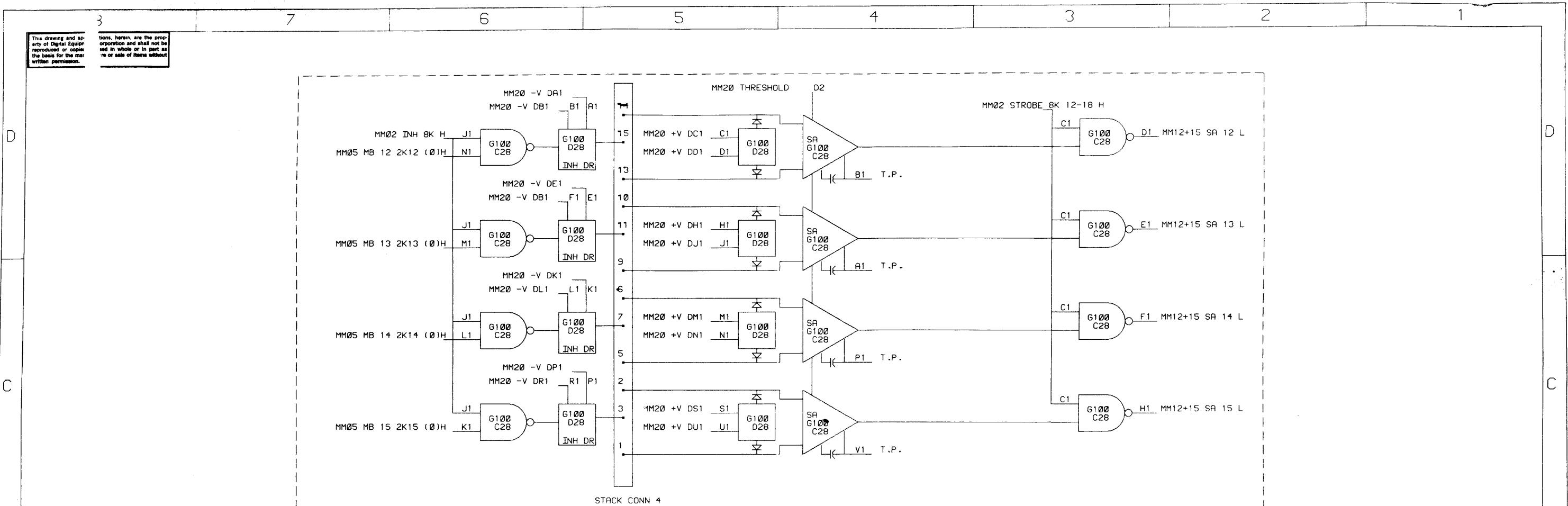


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REVISIONS		
CHK	CHANGE NO.	REV.

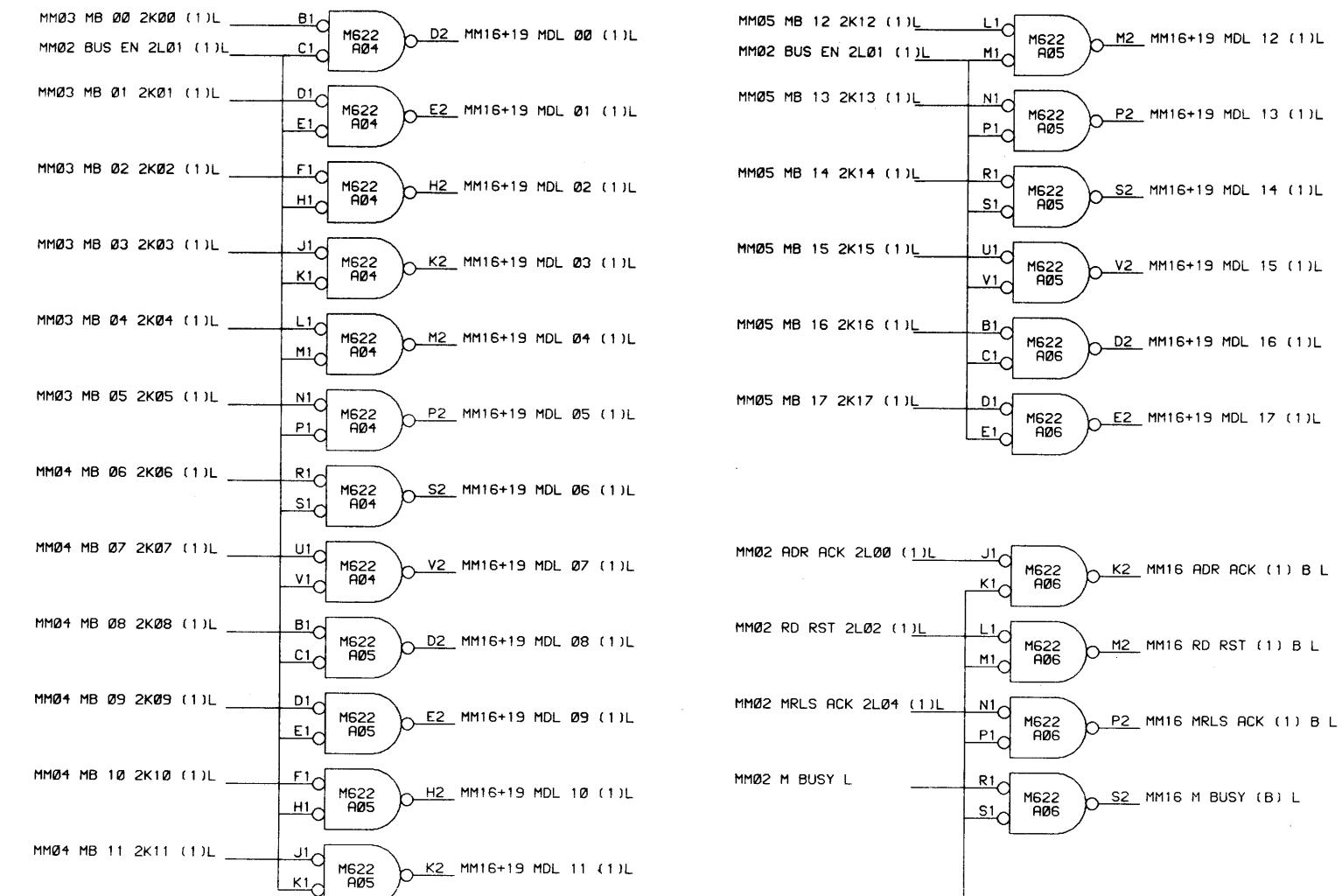
QTY.	DESCRIPTION		PART NO.	ITEM NO.
	DRN.	DATE	PARTS LIST	
CHK'D.	DATE		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG.	DATE		TITLE SENSE AMP + INH DRIVER (4-8K)	
PROJ. ENG.	DATE			
PROD.	DATE			
FIRST USED ON				
MM15				
SCALE	SIZE CODE	NUMBER	REV.	
	D BS	MM15-0-14	00	
SHEET 1 OF 1	DIST.			



REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.
	PARTS LIST			
DRN.	DATE	digital	EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS
CHK'D.	DATE		TITLE	SENSE AMP + INH DRIVER (4-8K)
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
FIRST USED ON				
MM15	SIZE CODE	NUMBER	REV.	
SCALE	D / BS	MM15-0-15	00	
SHEET 1 OF 1	DIST.			1

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NOTE: GND PINS C2,F2,J2,L2,N2,R2,U2,T1 ON ALL M622

REVISIONS		
CHK	CHANGE NO.	REV.

QTY.	DESCRIPTION		PART NO.	ITEM NO.	
	PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION MAINTAIN, MASSACHUSETTS			
CHK'D.	DATE				
ENG.	DATE	TITLE MEMORY BUS DRIVERS			
PROJ. ENG.	DATE				
PROD.	DATE				
FIRST USED ON					
MM15		SIZE	CODE	NUMBER	
SCALE	D	BS	MM15-0-16	REV. 00	
SHEET 1 OF 1			DIST.		

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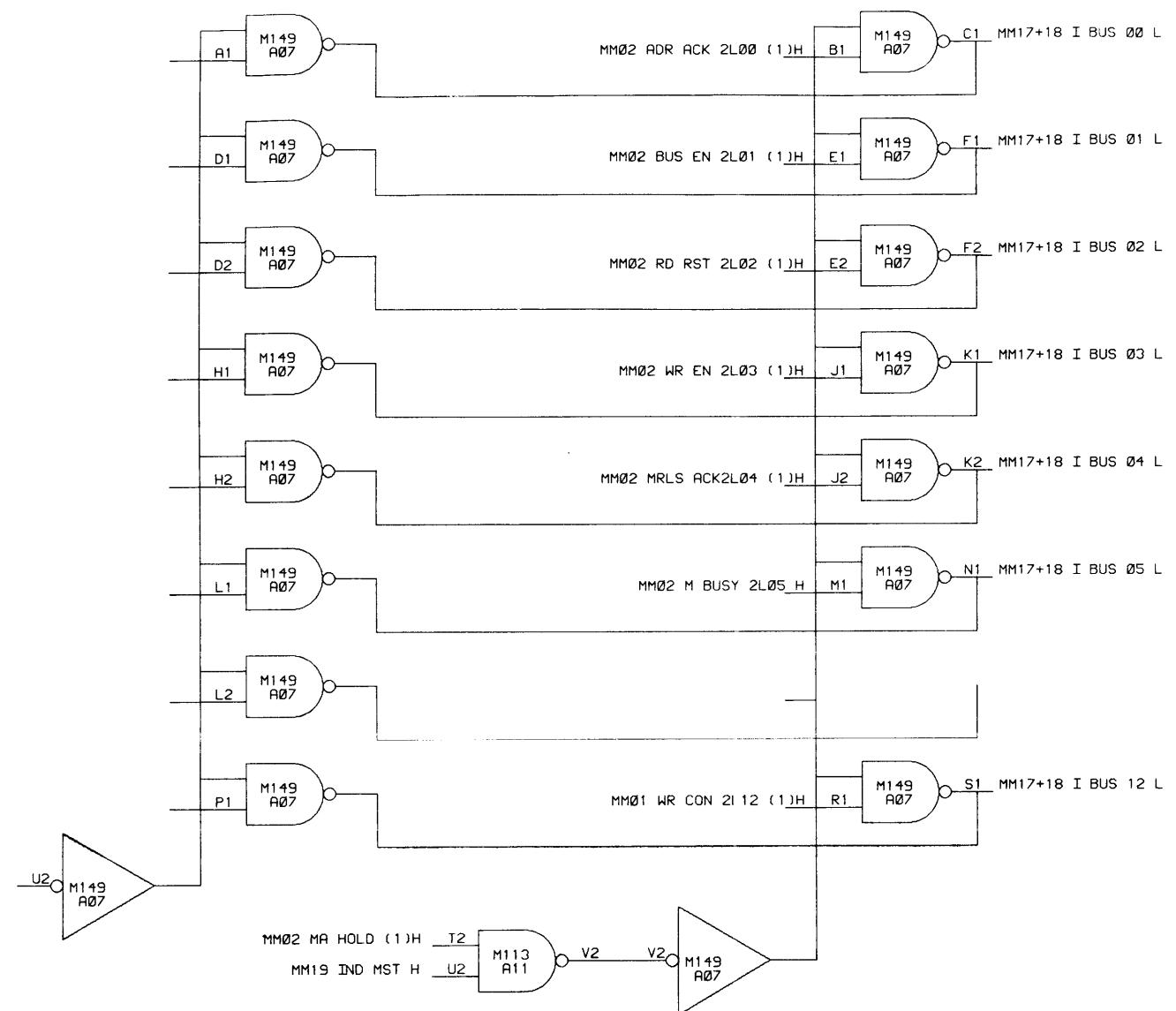
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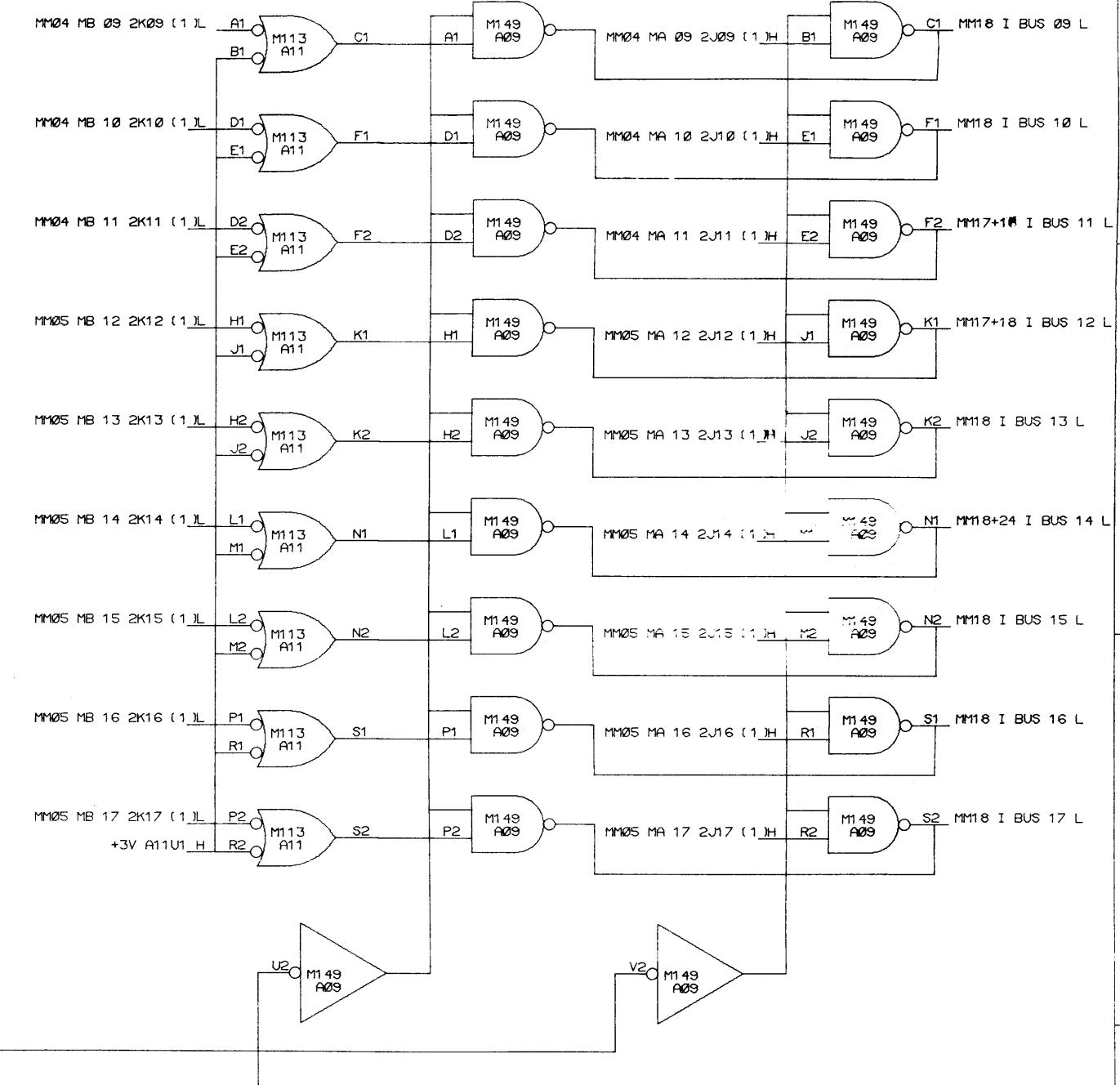
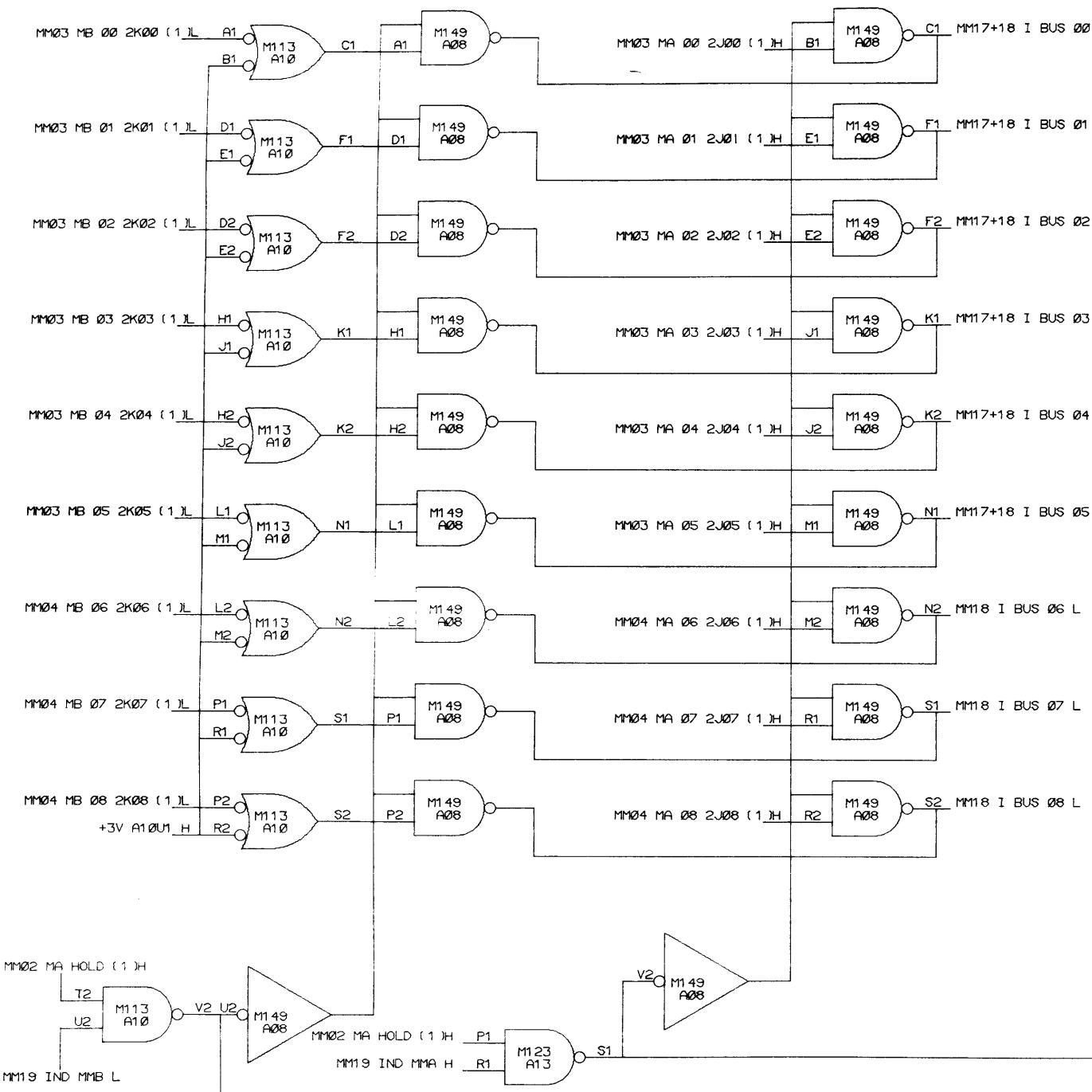
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REVISIONS		
CHK	CHANGE NO.	REV.

PARTS LIST		
QTY.	DESCRIPTION	PART NO.
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D.	DATE	TITLE
ENG.	DATE	INDICATOR BUS DRIVERS
PROJ. ENG.	DATE	
PROD.	DATE	
FIRST USED ON		
MM15		
SCALE	SIZE CODE	NUMBER
1	D 1 BS	MM15-0-17
SHEET 1 OF 1	DIST.	REV. 00

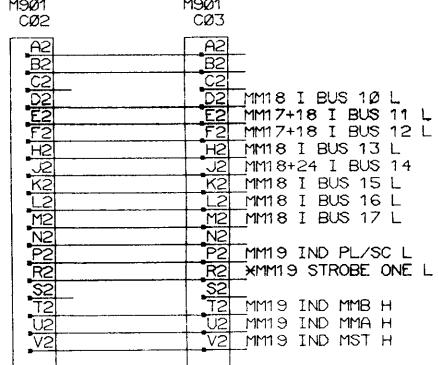
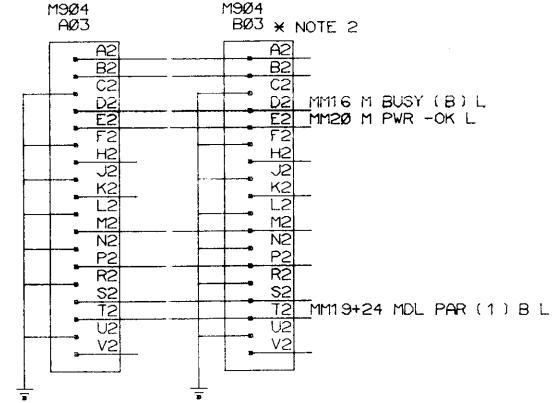
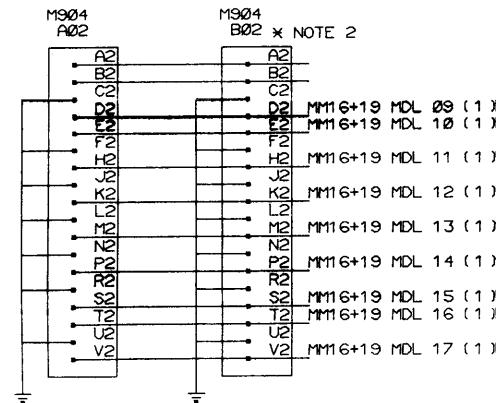
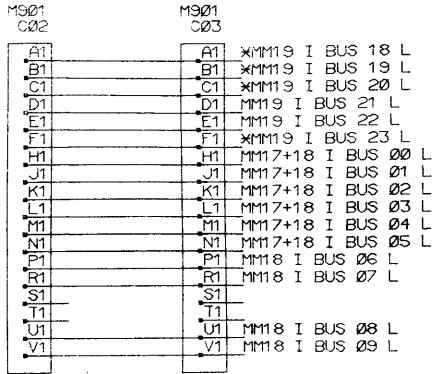
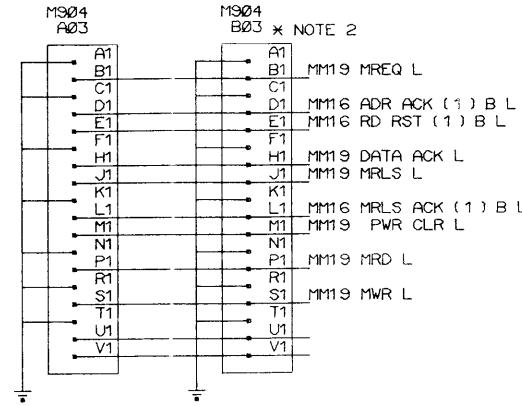
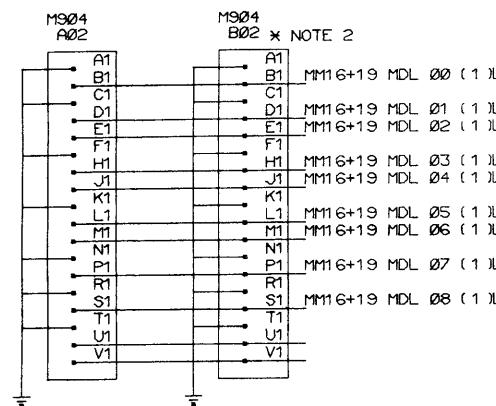
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REVISIONS		
CHK	CHANGE NO.	REV.
NR	MM15-00001	A
	K. BOOGS 9/16/69	
	D. O'CONNOR 9/18/69	
AN	MM15-00022	B
	72-100	7

DRN	E VOWLES	DATE	8/15/69	digital EQUIPMENT CORPORATION
RWD	RHEAULT	DATE	8/15/69	MAYNARD, MASSACHUSETTS
ENG	O'CONNOR	DATE	8/15/69	TITLE
PROJ ENG	D. O'CONNOR	DATE	8/15/69	INDICATOR BUS DRIVERS
PROD	F. LASKEY	DATE	8/15/69	
FIRST USED ON				
MM15		SIZE	CODE D BS	NUMBER MM15-0-18
SCALE		REV.	B	
SHEET 1 OF 1		DIST.		

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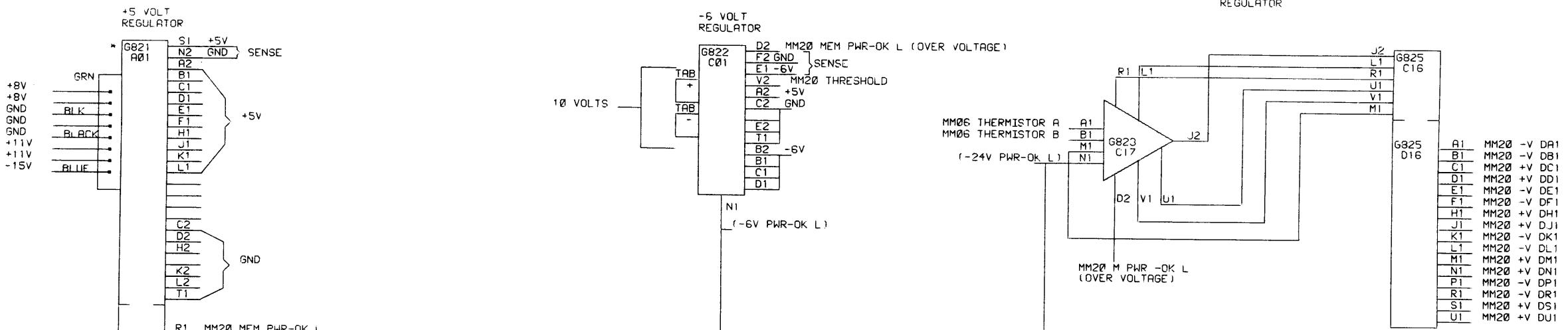
- NOTE:
1. SIGNALS PREFIXED MM19 COME FROM EXTERNAL SOURCE
 2. TERMINATE MDL LINES IN LAST MEMORY WITH TWO M966 MODULES.
- SIGNALS MARKED WITH * NOT USED IN MM15

REVISIONS		
CHK	CHANGE NO.	REV.
NR	MM15-00005	A
	A. WASHINGTON	1/14/70
	D. O'CONNOR	1/19/70
NR	MM15-00015	B
	KATHY COTE	
	D. O'CONNOR	
NR	MM15-00023	C

PARTS LIST		
DRN.	DATE	EQUIPMENT CORPORATION
E. VOWLES	8/15/69	digital
CHK'D.	DATE	MAYNARD MASSACHUSETTS
N. PHEAULT	8/15/69	
ENG.	DATE	TITLE
D. O'CONNOR	8/15/69	I/C MEMORY CABLES
PROJ. ENG.	DATE	
D. O'CONNOR	8/15/69	
PROD.	DATE	
F. LASKEY	8/15/69	
FIRST USED ON		
MM15	SIZE CODE	NUMBER
SCALE	D 1G	MM15-A-19
SHEET 1 OF 1	DIST.	REV. C

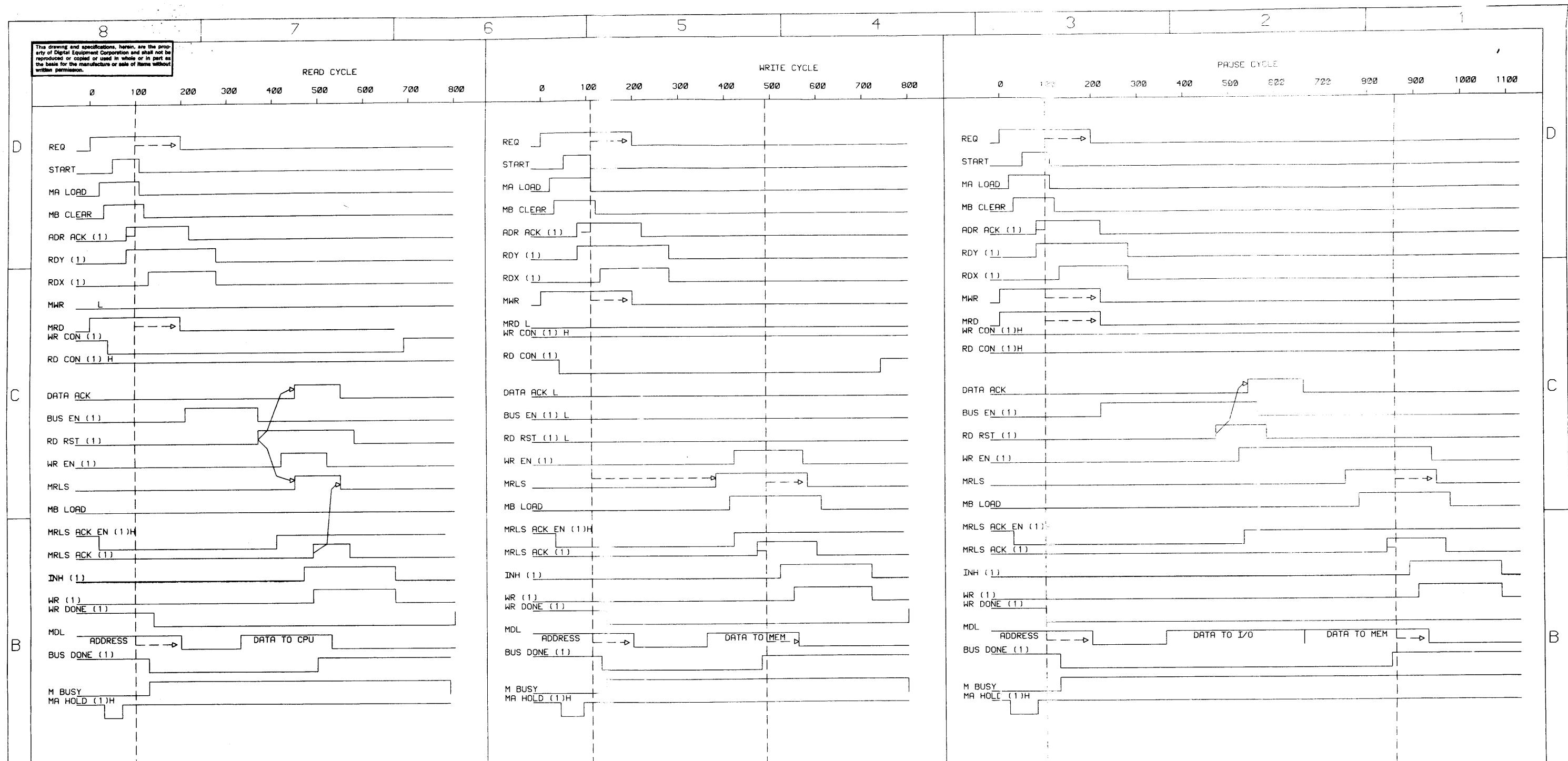
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* MUST BE G929 IN MM15-AD,-BD,-CD, OR -DD.
MOUNTED IN H963-N CABINET.



REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
	A	GH	MM15-00017	E	
			K WALSH 9-1-70		
NR	MM15-00007	B	F AUHANN 9-15-70		
P	WASHINGTON				
FV	D. O'CONNOR				
	MM15-00012	C			
	K. BOGG3				
	D. O'CONNOR				
FV	MM15-00013	D			
	K KRYSTAK				
	J ALUMANN	E			

DRN. E. VOWLES	DATE 8-15-69	digital EQUIPMENT CORPORATION
CHK'D. N. RHEAULT	DATE 8-15-69	MAYNARD, MASSACHUSETTS
ENG. P. O'CONNOR	DATE 8-15-69	TITLE MEMORY POWER REGULATORS
PROJ. ENG. P. O'CONNOR	DATE 8-15-69	
PROD. P. LASKEY	DATE 8-15-69	
FIRST USED ON MM15	SIZE CODE D BS	NUMBER MM15-0-20
SCALE	REV. F	
SHEET 1 OF 1	DIST.	



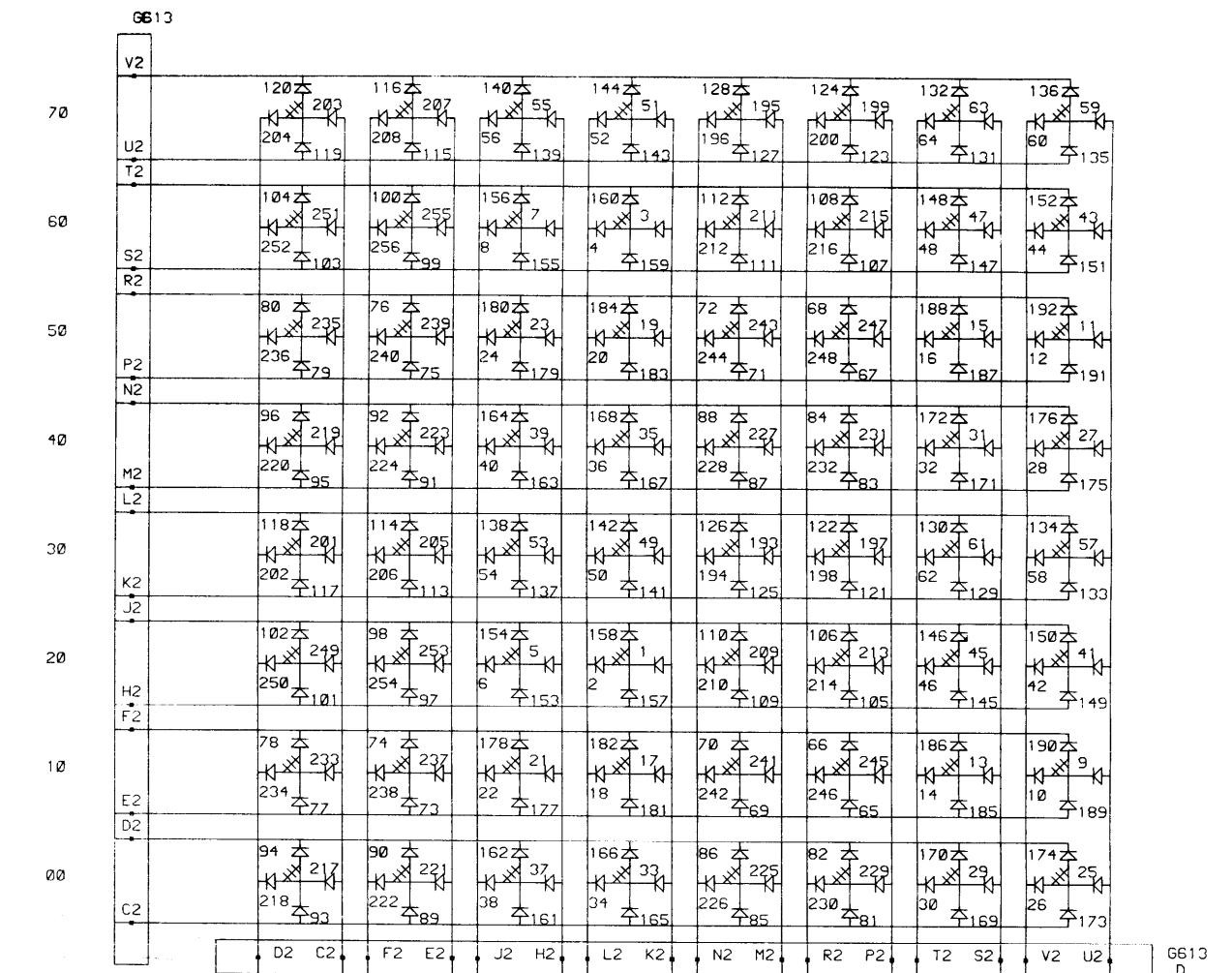
NOTE:

1. ALL SIGNALS SHOWN POSITIVE FOR ASSERTION
2. ARROWS INDICATE MEM BUS DELAY

REVISIONS		
CHK	CHANGE NO.	REV.

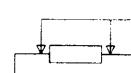
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	DATE	digital EQUIPMENT CORPORATION MASSACHUSETTS	
CHK'D.	DATE		
ENG.	DATE		
PROJ. ENG.	DATE		
PROD.	DATE		
TITLE			
TIMING DIAGRAM			
FIRST USED ON			
MM 5	SIZE CODE	NUMBER	REV.
SCALE	D BS	MM15-0-21	00
SHEET	1 OF 1	DIST.	

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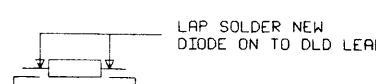


DIODE REPLACEMENT PROCEDURE:

1. DETERMINE WHICH DIODE IS DEFECTIVE IN MATRIX
 2. USING DIODE NUMBERS FIND ITS PHYSICAL LOCATION ON BOARD
 3. CLIP OUT DEFECTIVE DIODE. DO NOT UNSOLDER LEADS
 4. TACK SOLDER NEW DIODE INTO PLACE ON OLD LEADS



CUT DIODE HERE

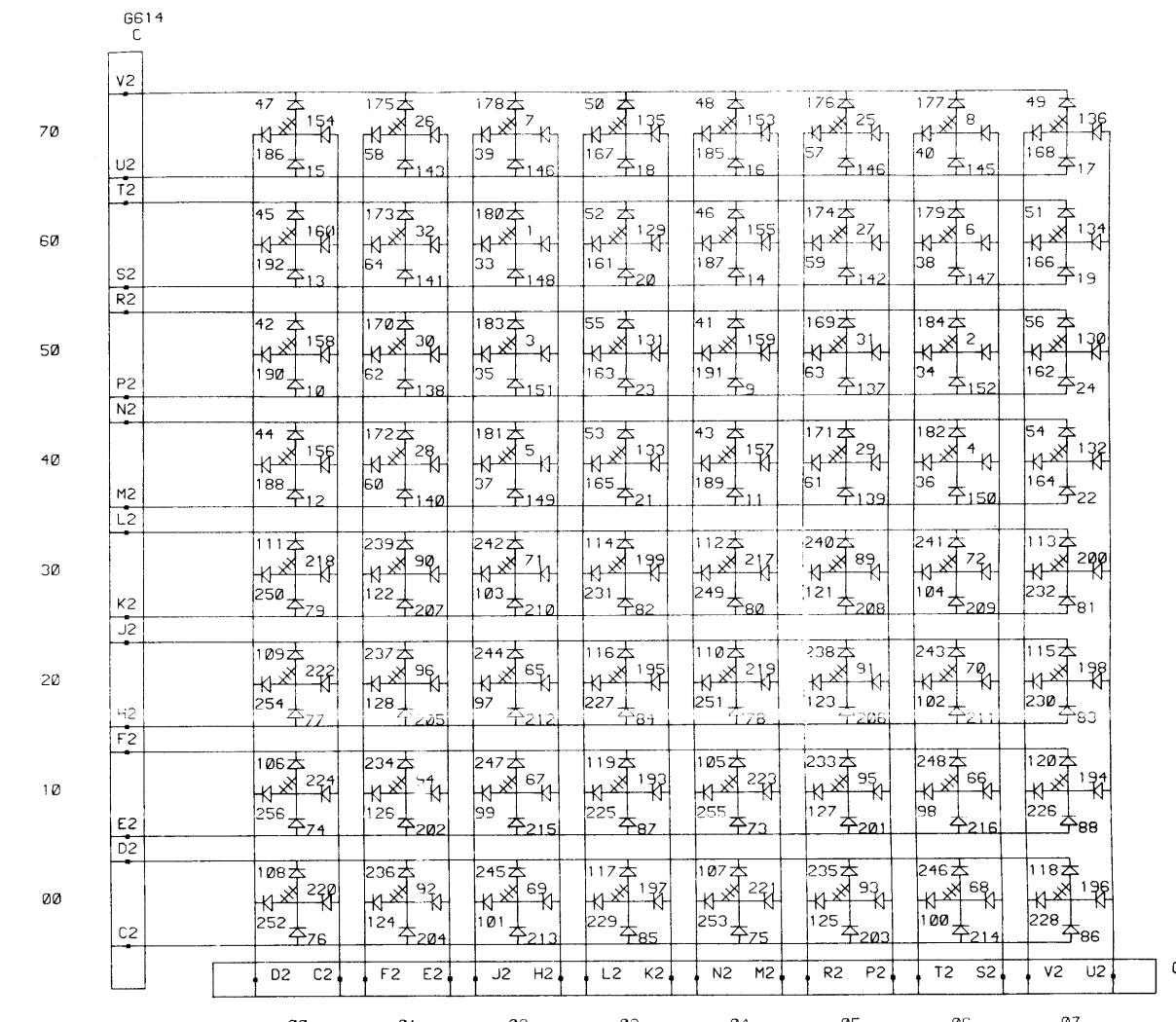
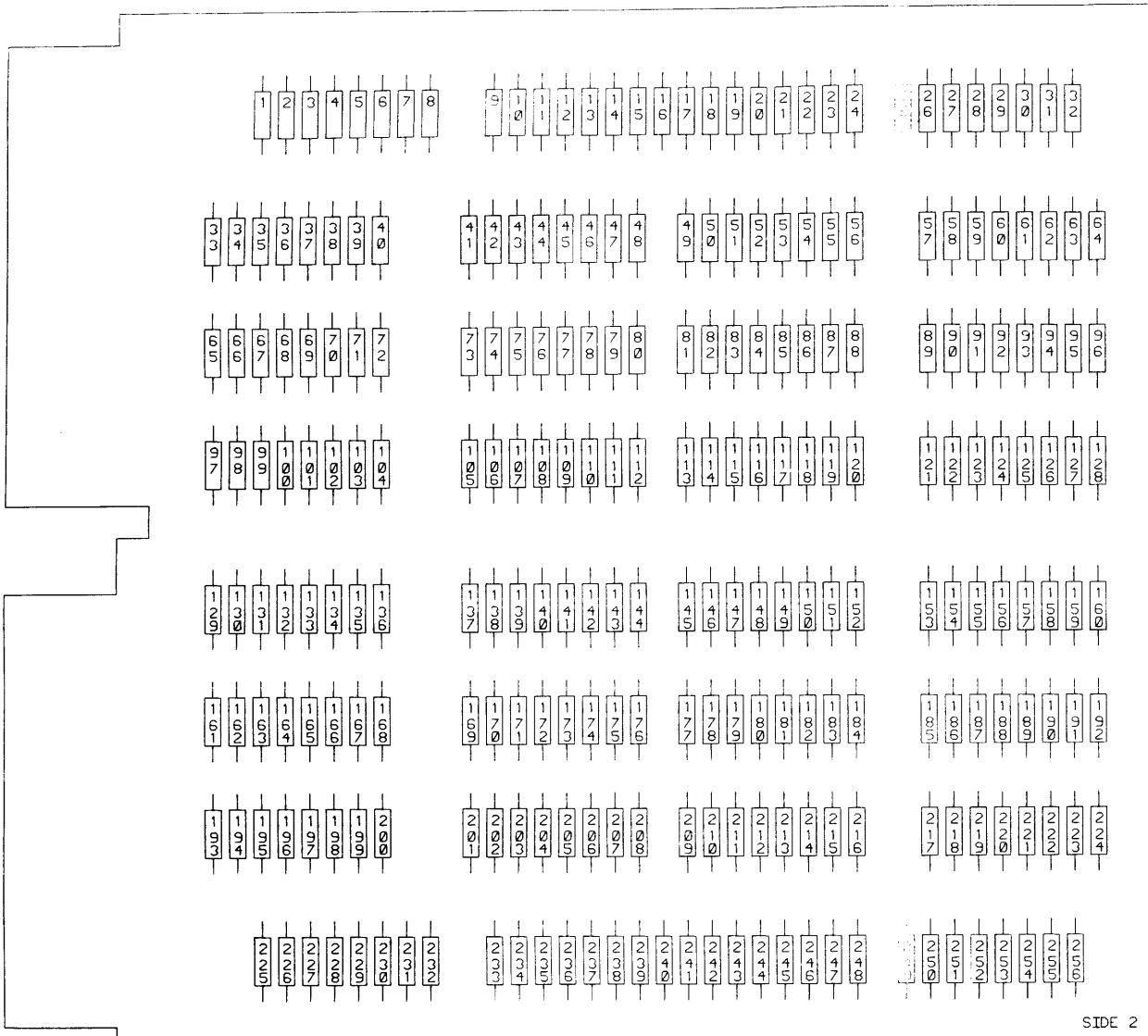


LAP SOLDER NEW
RTORE ON TO RLD LEAF

REVISIONS		
CHK	CHANGE NO.	REV.
A82	MM15-00015	A

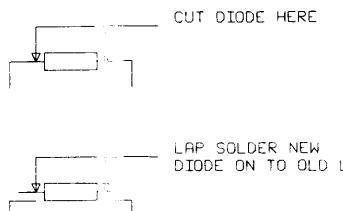
DRN. E VOWLES	DATE 8/15/69	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D IN RHEAULT	DATE 8/15/69	TITLE	
ENG. D O'CONNOR	DATE 8/15/69	X DIODE MATRIX	
PROJ. ENG. D O'CONNOR	DATE 8/15/69		
PROD. L LASKEY	DATE 8/15/69		
FIRST USED ON			
MM15			
SCALE	SIZE C	CODE BC	NUMBER MM15-C-22
SHEET 1 OF 1	DIST.	REV. A	

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Diode Replacement Procedure:

- DETERMINE WHICH DIODE IS DEFECTIVE IN MATRIX
- USING DIODE NUMBERS FIND ITS PHYSICAL LOCATION ON BOARD
- CLIP OUT DEFECTIVE DIODE. DO NOT UNSOLDER LEADS
- TACK SOLDER NEW DIODE INTO PLACE ON OLD LEADS



REVISIONS		
CHK	CHANGE NO.	REV.
MM15	MM15-00015	A

DRN. E. VOWLES	DATE 8/15/69	EQUIPMENT CORPORATION
CHK'D. IN RHEAULT	DATE 8/15/69	digital MAYNARD, MASSACHUSETTS
ENG. D. O'CONNOR	DATE 8/15/69	TITLE Y DIODE MATRIX
PROJ. ENG. D. O'CONNOR	DATE 8/15/69	
PROD. F. LASKEY	DATE 8/15/69	
FIRST USED ON MM15	SIZE CODE D. BS	NUMBER MM15-0-23
SCALE	REV. A	
SHEET 1 OF 1	DIST.	

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D

D

C

C

B

B

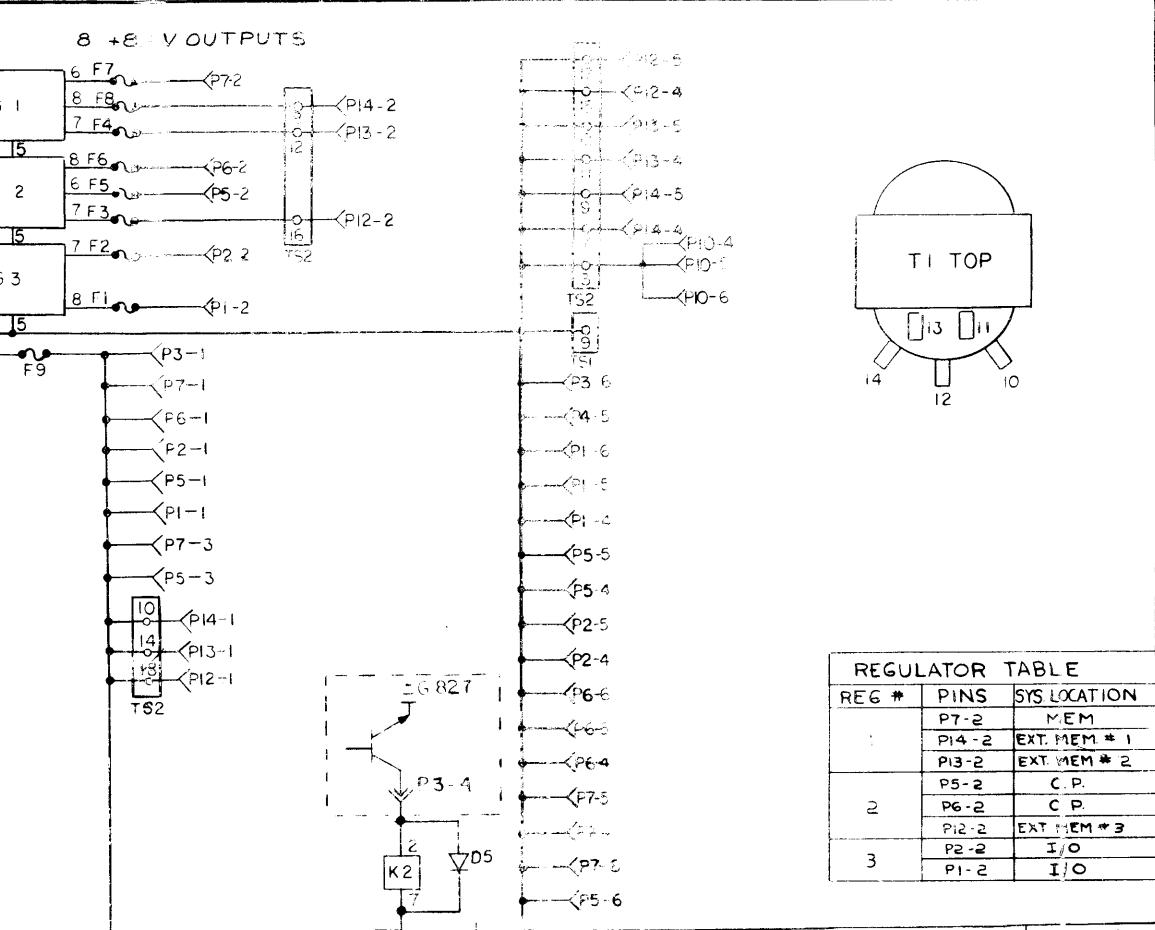
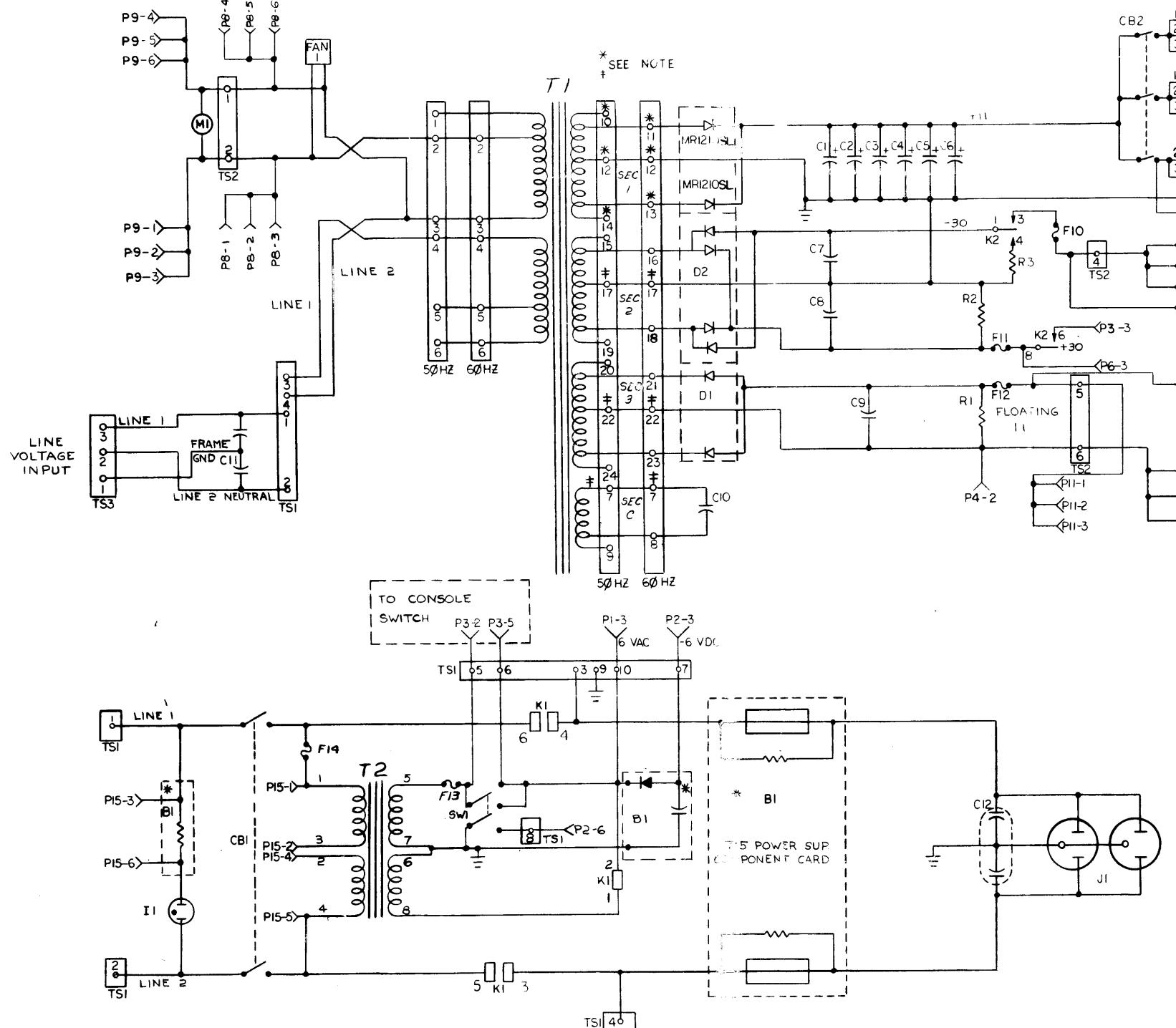
A

A



REVISIONS		
CHK	CHANGE NO.	REV.

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P15 TABLE	
INPUT VOLTAGE	P15 CONN
115V	1-4 2-5 3-6
230V	2-4

TI TABLE SECONDARY		
	50 HZ	60 HZ
SEC 1	10-12-14	11-12-13
SEC 2	15-17-19	16-17-18
SEC 3	20-22-24	21-22-23
SEC C	7-9	7-8

INPUT VOLTAGE	JUMPERS	LINE CONN
100V 50HZ	3-5,4-2	3-4
115V 50HZ	3-6,4-1	3-2
200V 50HZ	2-5	3-4
215V 50HZ	2-6	3-4
230V 50HZ	1-6	3-4
120V 60HZ	3-5,2-4	3-4
240V 60HZ	2-5	3-4
50 HZ AUTO TAP	6 AMP	3-3
60 HZ AUTO TAP	6 AMP	3-3

REV	DATE	EC	FIA	TRANSISTOR & DIODE CONVERSION CHART		digital 715 POWER SUP.	
1	10-12-59	10-12-59	10-12-59				
2	10-12-59	10-12-59	10-12-59				
3	10-12-59	10-12-59	10-12-59				
4	10-12-59	10-12-59	10-12-59				
5	10-12-59	10-12-59	10-12-59				
6	10-12-59	10-12-59	10-12-59				
7	10-12-59	10-12-59	10-12-59				
8	10-12-59	10-12-59	10-12-59				
9	10-12-59	10-12-59	10-12-59				
10	10-12-59	10-12-59	10-12-59				
11	10-12-59	10-12-59	10-12-59				
12	10-12-59	10-12-59	10-12-59				
13	10-12-59	10-12-59	10-12-59				
14	10-12-59	10-12-59	10-12-59				
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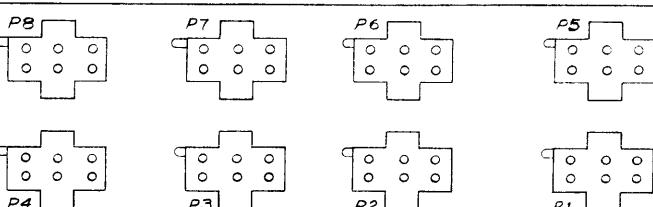
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P. CNTL-715 POWER SUPPLY

PIN TABLE
TOP VIEW

APPLICATIONS FCP
120V 60Hz
INPUT VOL.



PINS	LEVEL	PINS	LEVEL	PINS	LEVEL
P1-1	+11V	P2-1	+11V	P3-1	+11V
P1-2	+8.1V	P2-2	+8.1V	P3-2	6VA-C
P1-3	6VA-C	P2-3	-6V	P3-3	+30V
P1-4	GND	P2-4	GND	P3-4	GND
P1-5	GND	P2-5	GND	P3-5	CON. SW.
P1-6	GND	P2-6	LOCK	P3-6	GND
P4-2	+11V FLOATING	P5-1	+11V	P6-1	+11V
P4-3	-11V FLOATING	P5-2	+8.1V	P6-2	+8.1V
P4-5	GND	P5-3	+11V	P6-3	+30V
P4-6	-30V	P5-4	GND	P6-4	GND
		P5-5	GND	P6-5	GND
		P5-6	GND	P6-6	GND
P7-1	+11V	P8-1	HOT	P9-1	HOT
P7-2	+8.1V	P8-2	HOT	P9-2	HOT
P7-3	+11V	P8-3	HOT	P9-3	HOT
P7-4	GND	P8-4	NEUTRAL	P9-4	NEUTRAL
P7-5	GND	P8-5	NEUTRAL	P9-5	NEUTRAL
P7-6	GND	P8-6	NEUTRAL	P9-6	NEUTRAL
P10-1	-30V	P11-1	FLOATING -11V	P12-1	+11V
P10-2	-30V	P11-2	FLOATING -11V	P12-2	+8.1V
P10-3	-30V	P11-3	FLOATING -11V	P12-4	GND
P10-4	GND	P11-4	FLOATING +11V	P12-5	GND
P10-5	GND	P11-5	FLOATING +11V		
P10-6	GND	P11-6	FLOATING +11V		
P13-1	+11V	P14-1	+11V		
P13-2	+8.1V	P14-2	+8.1V		
P13-4	GND	P14-4	GND		
P13-5	GND	P14-5	GND		

REF.
P9-P14
TOP VIEW



QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. KELLY	DATE 6-24-69	EQUIPMENT CORPORATION	digital
CHK'D. MADDEN	DATE 7-18-69	MAYNARD MASSACHUSETTS	
ENG. O'CONNOR	DATE	TITLE	
PROJ. ENG. O'CONNOR	DATE		
PROD. LASKEY	DATE 7-18-69	715 POWER SUPPLY	
MATERIAL	FIRST USED ON		
FINISH	SCALE	SHEET 2 OF 2	DIST.
		SIZE CODE DCS	NUMBER 715-0-1
			REV. L

REVISIONS
CHANGE NO. REV.
CHK

DEC FORM NO.
DDO 102A

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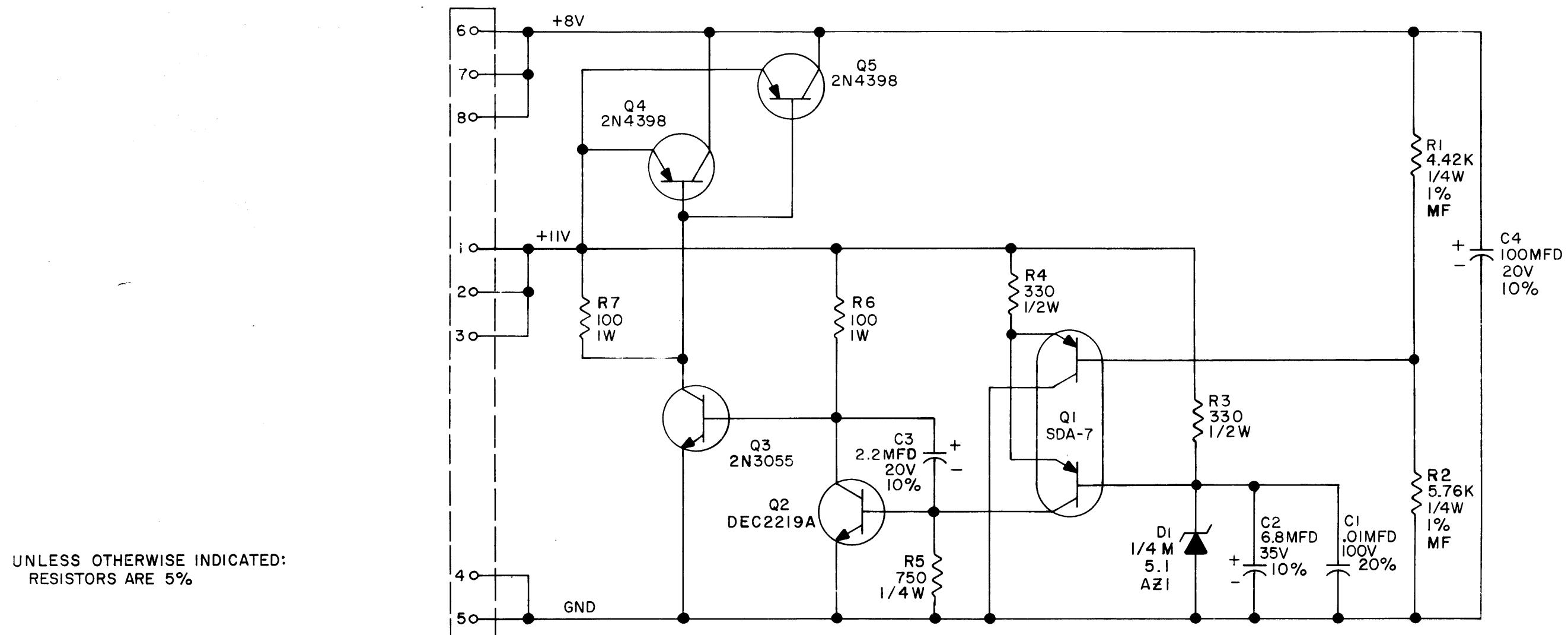
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REVISIONS		CHK	CHG NO.	REV.
			B	C
12	00001			
14	00002			

DRN.	BUTLER	DATE
CHK'D	P. J. Stank	8/17/69
ENG.	R. Paetz	12/7/69
PROD.		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
1/4M 5.1 AZI	SAME		
DEC2219	2N2219		
2N4398	NONE		
2N3055	NONE		
SDA - 7	SAME		

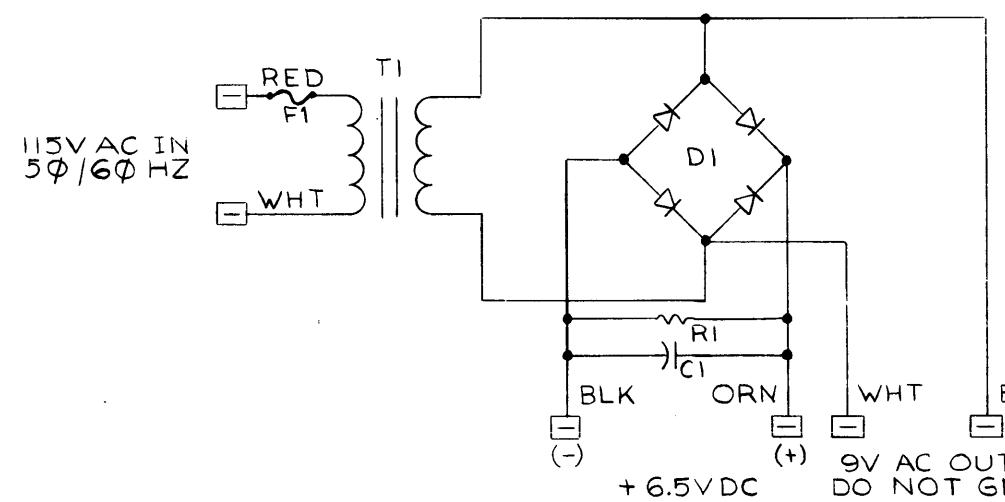
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE BULK REGULATOR
5408408

SIZE B CODE CS NUMBER 5408408-0-1 REV. C

PRINTED CIRCUIT REV. B

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SIZE CODE C CS 716-0-1 REV. C

REF DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
F1	1/2 AMP S.B. FUSE	9007209
R1	50ohm 25W RES	1300165
C1	18000MFD 10V DC CAP	1009437
T1	X MFR* F64-U TRIAD	1609588
DI	DIODE PACK DM-2	1105397
PARTS LIST		

REVISIONS	CHK	CHG NO	REV.
A	1	00001	V
B	2	00001	S
C	3	00001	Z
D	4	00001	W
E	5	00001	S
F	6	00001	S
G	7	00001	S
H	8	00001	S
I	9	00001	S
J	10	00001	S

DEC FORM NO.
DRC 102

ORN. RAIMONDI	DATE 6-18-69	TRANSISTOR & DIODE CONVERSION CHART
CHK'D HEALY	DATE 6-25-69	DEC EIA DEC EIA
ENG. VONADA	DATE 7-21-69	
PROD. ANTONUCCIO	DATE 7-25-69	

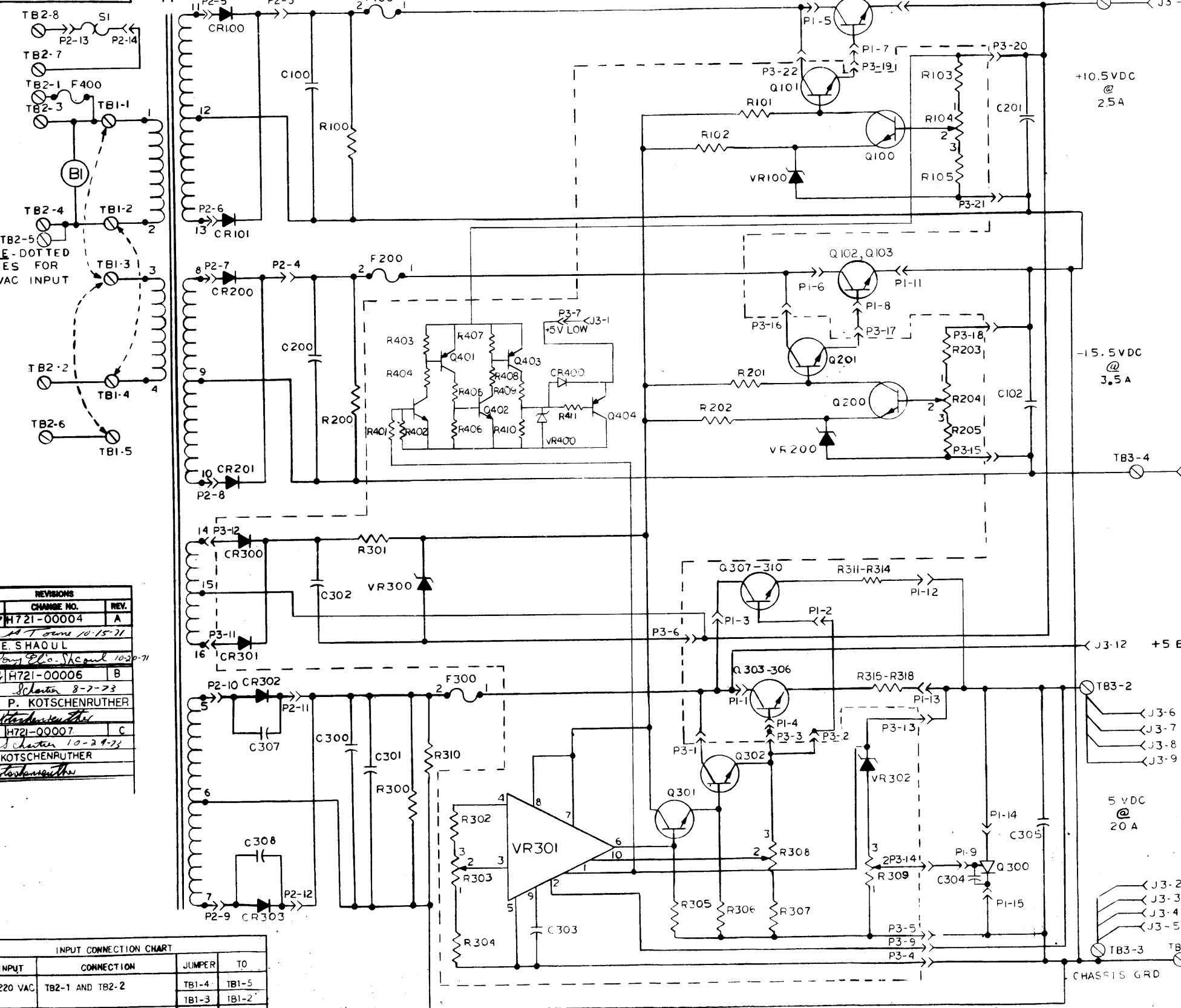
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CIRCUIT SCHEMATIC
716
SIZE CODE C CS 716-0-1 REV. C
PRINTED CIRCUIT REV.

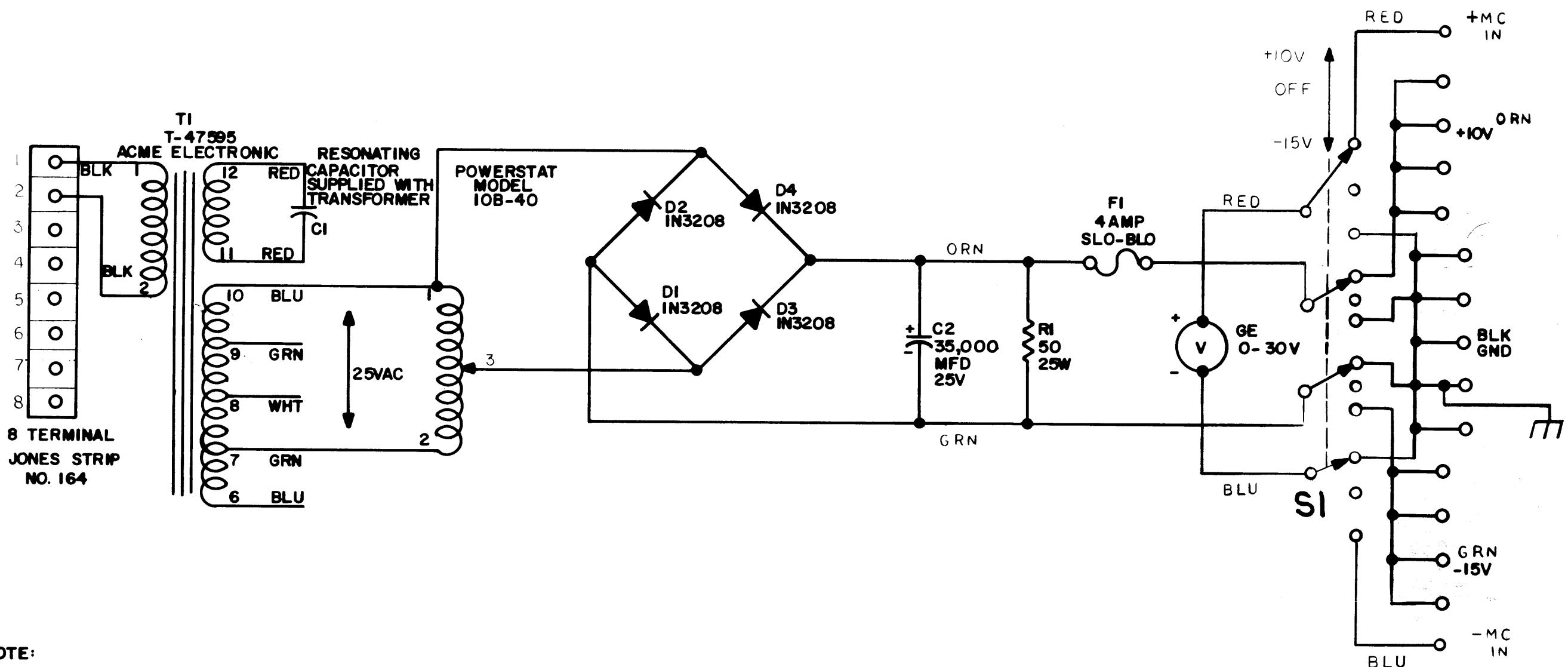
Pink

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COMPONENT CHART	
CKT. REF	DESCRIPTION
R401	1.78K 1/2 W N
R402	2.87K 1/2 W N
R403-406	1K 5% 1/4 W
R409	82W0Z 2 W
R410	100.5% 1 W
R411	10.25% 1/4 W
P1-10	
P1-5	
P1-7	
P3-20	
P3-22	
P3-19	
PI-10	
PI-5	
PI-7	
PI-1	
PI-11	
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NOTE

**OUTPUT AND +/- ARE CONNECTED THROUGH
HEYMAN TAB TERMINALS**

FOR PARTS LIST REFER TO DWG
A-PL-734D-0-0

REVISIONS	CHG NO.	REV.	
00001	A		

DEC FORM NO.
DRB 102

DRN.	Kennedy	DATE	11/14/63
CHK'D.	Rogerska	DATE	12-8-6
END	Searson	DATE	12/9/63
PROD.	Orfelia	DATE	12/10/63

The logo for Digital Equipment Corporation. It features the word "digital" in a bold, lowercase sans-serif font, where each letter is enclosed in a separate black rectangular box. Below it, the words "EQUIPMENT CORPORATION" are stacked in a smaller, uppercase sans-serif font, also within black rectangular boxes. The entire logo is set against a white background.

TITLE			
VARIABLE POWER SUPPLY			
734D			
SIZE	CODE	NUMBER	REV.
B	CS	734D - Ø - I	A
PRINTED CIRCUIT REV.			

PINK

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY	KIN GULICK	CHECKED		SECTION		QTY/VAR		
		DATE	11/13/89	DATE	12/8-6F			
ENG	PROD	DATE	12/9/89	DATE	1/1/90	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION						
REF	B-DCS-734D-0-1	VARIABLE POWER SUPPLY 734D				1	-	
REF	B-DCS-734E-0-1	VARIABLE POWER SUPPLY 734E				-	1	
1	E-MD-5303671-0-0	CRASSIS 734D & E				1	1	
2	9007238	BUSI JUN TERM #DC-202-1 (GRN) 14 MAN				4	4	
3	9007238	CONN TAP #T-202-S LEYMAN				15	15	
4	9007232	BUSI JUN TERM #DC-202-1 (BLK) 14 MAN				1	1	
5	9006056-1	SCR TUB LD FAN #1/4-20 X 1 1/2 LG SST				4	4	
6	9007363	NUT KEYS #1/4-20 SST				4	4	
7	B-MD-5303671-0-0	PROTECTION PLATE (8 TERM)				1	1	
8	9006023-1	SCR TUB LD FAN #6-32 X 1" LG SST				2	2	
9	9006033	WASH INT TOOTH #6 TOLE				6	6	
10	9006651	SPACER 1/4 AF X 1/2 LG X #6-32				2	2	
11	9006024-1	SCR TUB LD FAN #6-32 X 1/2 LG SST				13	13	
12	9006569	NUT KEYS #6-32 SST				6	6	
13	1100133	DIODE #IN3204 MOTOROLA				4	4	
14	9006594	FUSE EXPACTOR POSI #342001 "A" LITTLE FUSE				1	1	
15	9007220	FUSE SLO-LO TUBE MDX-4AMP FUSE TIRON				1	1	
16	A-DC-5303671-0-0	DECAL 734D POWER SUPPLY				1	-	
17	9007615	CONN BOLDERLESS #30000C27 INS ARK-LESS				2	2	
18	1000098	CAT #FAS-792-11FP-35000 MFD 25W C.D.				1	1	
19	9006030-1	SCR TUB LD FAN 10-32 X 1/2 LG SST				6	6	
20	9006025	NUT KEYS #10-32 SST				2	2	
TITLE	VARIABLE POWER SUPPLY 734D	ASSY NO.				NUMBER		
		D-UA-734D-0-0				REV. A	ECO NO 734D-A COOC2	
SHEET	1 OF 3	A	PL					
DIST.	G							

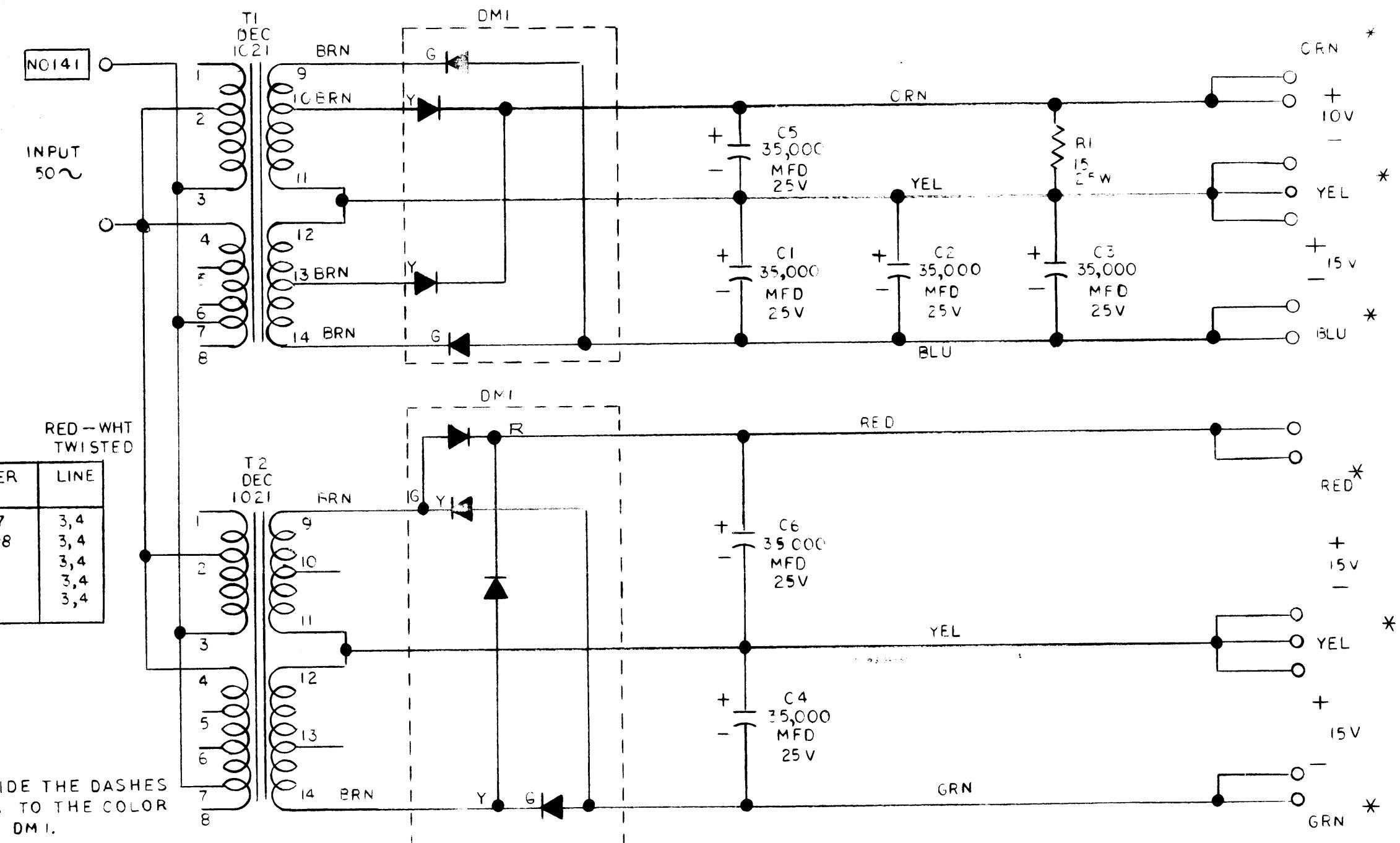
DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY	KIN GULICK	CHECKED		SECTION		QTY/VAR		
		DATE	11/13/89	DATE	12/8-6F			
ENG	PROD	DATE	12/16/89	DATE	1/1/90	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION						
1	120914	SW TOGGLE 4PDT 3POS Q.M.				1	1	
2	9007220-1	VAR AUTO XFMR #10B-40 SUPERIOR ELECT				1	1	
3	9006030-1	XFMR DEC #130-16-1025 TRIADE				1		
4	A-DC-5303671-0-0	DECALS 734E POWER SUPPLY				-	1	
5	1209132	METER D.C. TYPE DO-91 #516 X 4 G.E.				1	1	
6	1209169	KNOB #1930-2 1/4 DAVIS MOLD CO.				1	1	
7	9007234	BUSI JUN TERM #DC-202-1 (RED) 14 MAN				1	1	
8	9007234	BUSI JUN TERM #DC-202-1 (ORANGE) LEYMAN				5	5	
9	1309212	RES FIXED #25F50 500 NG 25W LEONARD				1	1	
10	9007658-1	SCR TUB LD FAN #6-32 X 2 3/4 LG SST				1	1	
11	B-MD-5303671-0-0	JUNCTION TERMINAL BRACKET				1	1	
12	9006032	SPACER 1/4 AF X 1" LG X #6-32				4	4	
13	9107370-1	BUSS WIRE #14 AWG STRD				A/RA/R		
14	9107370-1	WIRE #14 AWG STRD TEE INS BLK				A/RA/R		
15	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
16	9107370-2	WIRE #14 AWG STRD TEE INS ORN				A/RA/R		
17	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
18	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
19	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
20	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
21	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
22	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
23	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
24	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
25	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
26	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
27	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
28	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
29	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
30	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
31	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
32	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
33	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
34	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
35	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
36	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
37	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
38	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
39	9107370-2	WIRE #14 AWG STRD TEE INS FLU				A/RA/R		
40	9107370-2	WIRE #14 AWG STRD TEE INS RED				A/RA/R		
41	9107370-2	WIRE #14 AWG STRD TEE INS GRN				A/RA/R		
42	900818	CONN #2104 SHAKEPROOF				3	3	
TITLE	VARIABLE POWER SUPPLY 734D	ASSY NO.				NUMBER		
		D-UA-734D-0-0				REV. A	ECO NO 734D-0-0	
SHEET	2 OF 3	A	PL					
DIST.	G							

DEC FORM NO 16-1927

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST						QTY/VAR			
MADE BY	KEN GULICK	CHECKED <i>to human</i>	SECTION						
DATE	11/13/69	DATE	12/8/69	1					
ENG	<i>JS</i>	PROD		ISSUED SECT.					
DATE	12/9/69	DATE		1					
ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION			UNIT COST	UNIT QUANTITY	QUANTITY ISSUED		
43	9007919	CONN SOLDERLESS #50906 ARKLES							
44	9007925	CONN SOLDERLESS#3000-121A ARKLES			2	2			
45	9007595	SOLDER ALUMA 63/37			A/RA/R				
46	9107370-11	WIRE #14 AWG STRD TEF INS (PRN)			A/RA/R				
47	9107370-99	WIRE #14 AWG STRD TEF INS (WHT)			A/RA/R				
48	1602545	XFMR DEC 16-1026			-	1			
49	MD-C-01558	CAPACITOR MTG BRACKET			1	1			
50	9006674	WASH 916-CORE 2A WARD LEN			1	1			
51	9006831	SPACER 1/2 AF X 1/2 LG X #10 HOLE			1	1			
52	A-DC-5308703-0-0	LABLE PWR SUPPLY 734E			1	1			
53	9006635	WASH INT TOOTH #10 HOLE			4	4			
54	1202356	SCR SHOULDER #10-32 x 9/32 LG			4	4			
55	D-MD-5309646-0-1	SHIELD PLEXIGLAS			1	1			
56	9009062	SPACER HEX 1/2AF x 5 LG x #10-32			4	4			
TITLE VARIABLE POWER SUPPLY 734D			ASSY NO. D-UA-734D-Ø-Ø	SHEET 3 OF 3	SIZE CODE A PL	NUMBER 734D-Ø-Ø	REV. A	ECO NO.	
				DIST. G					

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NOTE:

1. LETTERS INSIDE THE DASHES CORRESPONDS TO THE COLOR DOTS ON THE DM 1.

UNLESS OTHERWISE INDICATED

* HEYMAN MFG CO TAB-
TERMINAL IN PLASTIC BUSHIN

CINCH JONES TERMINAL STR

REVISIONS			
CHK	CHG NO.	REV	
799A-	A		
00002			<i>St. Paulia 12/10/08</i>

DRN. P.L.B. 11-1	DATE 10-18-16
CHK'D <u>EAM</u>	DATE 11-3-65
ENG.	DATE 11-7-6
PROD.	DATE 11-7-6

The logo for Digital Equipment Corporation. It features the word "digital" in a bold, lowercase, sans-serif font, where each letter is enclosed in a separate black rectangular box. Below it, the words "EQUIPMENT" and "CORPORATION" are stacked in a smaller, all-caps, sans-serif font, also within black rectangular boxes.

TITLE
POWER SUPPLY 799-A

SIZE	CODE	NUMBER
B	CS	799-A-1

PRINTED CIRCUIT REV.

PRINTED CIRCUIT REV.

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY STAN POITRAS				QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION					
1	B-CS-799-A-1	POWER SUPPLY	-799-A				
1	D-IA-7406925-0-0	CHASSIS	(798-799)				
2	D-MD-728-0-1-0-3	CAP HOLD DOWN BRACKET		1	1	1	1
	9006509	POP RIVET					
4	9006565	KEPS HEX NUT #10-32 SST					
5	C-MD-728A-0-1-2	JUNCTION TERMINAL BRACKET					
5	9007238	TAB T-202-S					
7	9007236	JUNCTION TERM BUSH DC-202-2 GRN					
8	9007233	JUNCTION TERM BUSH DC-202-2 REL					
9	9007231	JUNCTION TERM BUSH DC-202-2 RFD					
10	A-DC-7406953-0-0	779-A-POWER SUPPLY (LABEL)					
11	1300181	FIXED RESISTOR 15-OHM 25WF15					
12	9006050	SCR PH P#6-32x2 3/4 LG SST					
13	9006586	NUT C-30110-1032-4 INNERMAN					
14	9006073	SCR PH TRUSS I #10-32x1/2 LG SST (WARD LEONARD)					
14	9006831	SPACER 1/2 OD X 3/16 ID X 1/2 LG					
15	9107305	HY SURINK TUBE RED #14x1/2 LG					
15	9007649	WASH EXT TOOTH #6					
17	9007234	JUNCTION TERMINAL BUSH #DC-202-2 ORN					
18	9007232	JUNCTION TERMINAL BUSH #DC-202-2 BLU					
19	9006586	NUT C-30110-1032-4 INNERMAN					
20	9006073	SCR PH TRUSS I #10-32x1/2 LG SST					

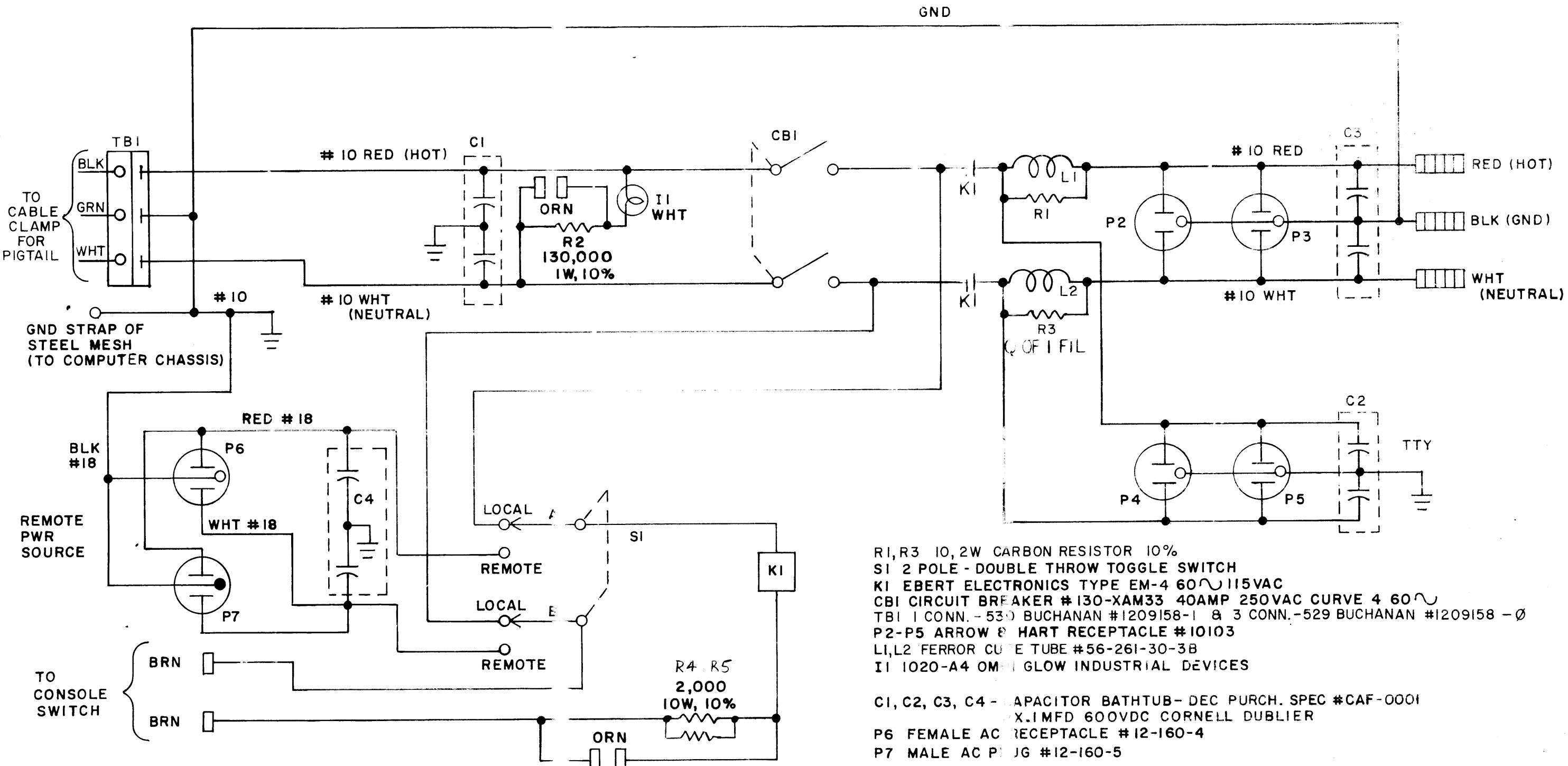
MADE BY STAN POITRAS				QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION					
1	B-CS-799-A-1	POWER SUPPLY	-799-A				
2	D-IA-7406925-0-0	CHASSIS	(798-799)				
2	D-MD-728-0-1-0-3	CAP HOLD DOWN BRACKET		1	1	1	1
	9006509	POP RIVET					
4	9006565	KEPS HEX NUT #10-32 SST					
5	C-MD-728A-0-1-2	JUNCTION TERMINAL BRACKET					
5	9007238	TAB T-202-S					
7	9007236	JUNCTION TERM BUSH DC-202-2 GRN					
8	9007233	JUNCTION TERM BUSH DC-202-2 REL					
9	9007231	JUNCTION TERM BUSH DC-202-2 RFD					
10	A-DC-7406953-0-0	779-A-POWER SUPPLY (LABEL)					
11	1300181	FIXED RESISTOR 15-OHM 25WF15					
12	9006050	SCR PH P#6-32x2 3/4 LG SST					
13	9006586	NUT C-30110-1032-4 INNERMAN					
14	9006073	SCR PH TRUSS I #10-32x1/2 LG SST (WARD LEONARD)					
14	9006831	SPACER 1/2 OD X 3/16 ID X 1/2 LG					
15	9107305	HY SURINK TUBE RED #14x1/2 LG					
15	9007649	WASH EXT TOOTH #6					
17	9007234	JUNCTION TERMINAL BUSH #DC-202-2 ORN					
18	9007232	JUNCTION TERMINAL BUSH #DC-202-2 BLU					
19	9006586	NUT C-30110-1032-4 INNERMAN					
20	9006073	SCR PH TRUSS I #10-32x1/2 LG SST					

MADE BY STAN POITRAS				QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION					
1	B-CS-799-A-1	POWER SUPPLY	-799-A				
2	D-IA-7406925-0-0	CHASSIS	(798-799)				
2	D-MD-728-0-1-0-3	CAP HOLD DOWN BRACKET		1	1	1	1
	9006509	POP RIVET					
4	9006565	KEPS HEX NUT #10-32 SST					
5	C-MD-728A-0-1-2	JUNCTION TERMINAL BRACKET					
5	9007238	TAB T-202-S					
7	9007236	JUNCTION TERM BUSH DC-202-2 GRN					
8	9007233	JUNCTION TERM BUSH DC-202-2 REL					
9	9007231	JUNCTION TERM BUSH DC-202-2 RFD					
10	A-DC-7406953-0-0	779-A-POWER SUPPLY (LABEL)					
11	1300181	FIXED RESISTOR 15-OHM 25WF15					
12	9006050	SCR PH P#6-32x2 3/4 LG SST					
13	9006586	NUT C-30110-1032-4 INNERMAN					
14	9006073	SCR PH TRUSS I #10-32x1/2 LG SST (WARD LEONARD)					
14	9006831	SPACER 1/2 OD X 3/16 ID X 1/2 LG					
15	9107305	HY SURINK TUBE RED #14x1/2 LG					
15	9007649	WASH EXT TOOTH #6					
17	9007234	JUNCTION TERMINAL BUSH #DC-202-2 ORN					
18	9007232	JUNCTION TERMINAL BUSH #DC-202-2 BLU					
19	9006586	NUT C-30110-1032-4 INNERMAN					
20	9006073	SCR PH TRUSS I #10-32x1/2 LG SST					

MADE BY STAN POITRAS				QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION					
1	B-CS-799-A-1	POWER SUPPLY	-799-A				
2	D-IA-7406925-0-0	CHASSIS	(798-799)				
2	D-MD-728-0-1-0-3	CAP HOLD DOWN BRACKET		1	1	1	1
	9006509	POP RIVET					
4	9006565	KEPS HEX NUT #10-32 SST					
5	C-MD-728A-0-1-2	JUNCTION TERMINAL BRACKET					
5	9007238	TAB T-202-S					
7	9007236	JUNCTION TERM BUSH DC-202-2 GRN					
8	9007233	JUNCTION TERM BUSH DC-202-2 REL					
9	9007231	JUNCTION TERM BUSH DC-202-2 RFD					
10	A-DC-7406953-0-0	779-A-POWER SUPPLY (LABEL)					
11	1300181	FIXED RESISTOR 15-OHM 25WF15					
12	9006050	SCR PH P#6-32x2 3/4 LG SST					
13	9006586	NUT C-30110-1032-4 INNERMAN					
14	9006073	SCR PH TRUSS I #10-32x1/2 LG SST (WARD LEONARD)					
14	9006831	SPACER 1/2 OD X 3/16 ID X 1/2 LG					
15	9107305	HY SURINK TUBE RED #14x1/2 LG					
15	9007649	WASH EXT TOOTH #6					
17	9007234	JUNCTION TERMINAL BUSH #DC-202-2 ORN					
18	9007232	JUNCTION TERMINAL BUSH #DC-202-2 BLU					
19	9006586	NUT C-30110-1032-4 INNERMAN					
20	9006073	SCR PH TRUSS I #10-32x1/2 LG SST					

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REVISIONS	REV A	REV B
CHK NO	10	1
CHG NO	1	
CHG CNT		
PROD		

DRN	m. muller	DATE
CHK		2-17-69
ENG		DATE
PROD		2-15-69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD MASSACHUSETTS

SIZE CODE NUMBER
B CS 841-B-1 REV. B
PRINTED CIRCUIT REV. B

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	SECTION	ISSUED SECT.
1	E-IA-5308295-0-0	CHASSIS-841-B		1	1
2	9007231	BUSH TERM DC-202-1 RED		5	5
3	9007238	TAB SOLDER T-202-S		15	15
4	9007237	BUSH TERM DC-202-1 BLK		5	5
5	9007235	BUSH TERM DC-202-1 WHT		5	5
6	9107560-5	WIRE #14 AWG SOLID BUSSING		A/RA/R	
7	B-IA-5304373-0-0	RECEPTACLE ASSEMBLY		2	2
8	9006024-1	SCR PHIL H PAN 6-32 x 1/2 SST		10	10
9	9006633	WASH INT TOOTH LOCK		12	12
10	10-02153	CAP-BATH 1000VDC 440 AC 2 x .1 MFD		4	4
11	9006022-1	SCR PHIL H PAN 6-32 x 3/8 SST		18	18
12	9006560	NUT KEPS 6-32		16	16
13	9007089	CLAMP 3/4 NYLON		1	1
14	1209158-0	BARRIER STRIP 3 EUCIANNAN 529 MD		3	3
15	9006556	WASH FLAT #6		2	2
16	9008283	ARK #50918-1		55	55
17	9007113	TERMINAL #11290 MP		2	2
18	1201219-02	CIR BREAKER AM33MG6 40 AMP 250V		1	1
19	12-05303	LAMP #1020A4 (WHT) OMNI GLOW		1	1
20	1204816	SW TOGGLE 7597K9 CUTLER HAM		1	1
21	9007633	BUSH TERM DC-202-1 BRN		2	2
22	9007239	TAB DOUB MALE T-202-D		6	6

TITLE	ASSY NO.	SIZE CODE	NUMBER
	D-UA-841E	A PL	D-41-B-Ø
	SHEET	1 OF 2	DIST.

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	SECTION	ISSUED SECT.
1	B-DC-5308302-0-0	DECAL 841-B + 841-C	1	1
2	D-MD-5308214-0-0	COVER	1	1
3	9007035	GROMMET CATERPILLAR 1/16	A/RA/R	
4	1107440-2	PLUG #160-5 AMPHENOL	1	1
5	1201231	RECI #160-4 AMPHENOL	1	1
6	9107440-4	WIRE #16 RED & WHT STRD	A/RA/R	
7	9107370-1	WIRE #10 BLK STRD	A/RA/P	
8	9107473-10	TUBING #18 WHITE	A/R/R	
9	1305603	RESISTOR 2K 1OW 10%	2	
10	1305604	RESISTOR 130K 1W 5%	1	1
11	9107360-3	WIRE #18 RED STRD	A/RA/E	
12	9107360-10	WIRE #18 WHT STRD	A/RA/R	
13	91074255	SHRINK TUBING - WHT	A/RA/R	
14	9107430-2	WIRE #18 RED & WHT STRD	A/RA/R	
15	12-05768	RELAY EM-4 120 VAC	1	-
16	9006071-1	PHL H PAN 10-32 x 3/8 SST	2	2
17	9006055	NUT KEPS HEX 10-32	2	2
18	13000172	RESISTOR 10 OHMS 2W 10%	2	2
19	1005147	FERRITE CUBE TUBE #56-261-30-36	2	2
20	9007234	BUSH TERM DC-202-1 ORN	1	4
21	9107278-3	TUBING #18 RED	A/RA/R	
22	9007015	GROMMET #1043-M	1	1

TITLE	ASSY NO.	SIZE CODE	NUMBER
	D-UA-841E	A PL	D-41-B-Ø
	SHEET	2 OF 3	DIST.

DIGITAL EQUIPMENT CORPORATION
MAILING DEPT. 1000 BOSTON, MASS.

MARGARET BROWN

PARTS LIST

MADISON K. GULICK

Q&A Session

F.N. - K. 704-1704 -

DATE: 08-08-2018 BY: S. K. D.

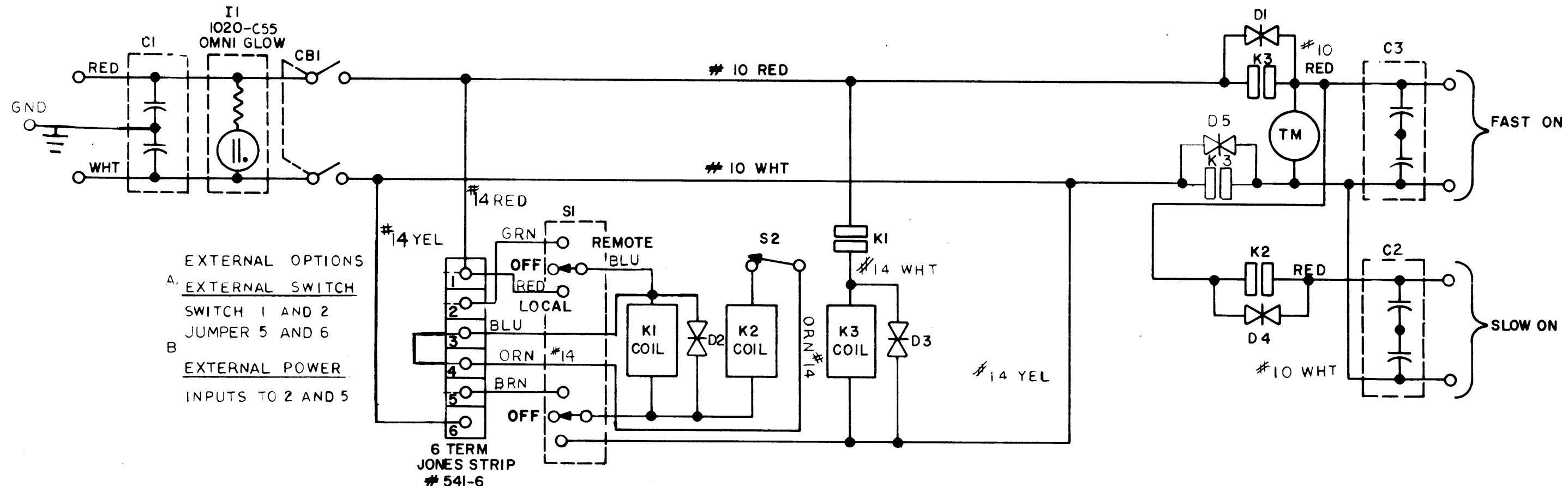
ICHEC D. REILLY **SECTION**

DATE 2/19/69

DATE 12-15-19

DEC FORM NO
DRA 110

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NOTES

D1,D2,D3,D4,D5 THYRECTOR G.E. 20SP4B4, 115V
C1,C2,C3 CAPACITOR (BATH) 2 X .1 MFD
1000 VDC

S1 TOGGLE SWITCH DPDT 7563K6 C.H. 3POS CENTER OFF
S2 TOGGLE SWITCH DPST 7590K9
K1 RELAY #1040-8-687 NORMALLY OPEN 115 VAC COIL 3-5 SEC DELAY
QUICK OPERATE, SLOW RELEASE.
K2 RELAY #1040-8-58 NORMALLY OPEN 115 VAC COIL 3-5 SEC DELAY
SLOW OPERATE, QUICK RELEASE.
K3 RELAY # EM-4 115 VAC EBERT ELECTRONICS.
CBI CIRCUIT BREAKER #190-230-104 30 AMPS. 250V, 60 CYC-CURVE 4
TM HOBBS TIME METER TYPE MII906 120V 60 CYC-CURVE 4

REVISIONS	REV	A
CHK	CHG NO	DATE
	0000-1	

DRW	12/18/68	DATE
CMKD	12/23/68	DATE
ENG	1-2-68	DATE
PROD	1-15	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POWER CONTROL 853-F
(115 VOLT DUAL OUTPUT)

SIZE CODE B CS 853F-0-1 REV A

PRINTED CIRCUIT REV

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	
REF B-CS-853-F-1	POWER CONT 353-F		
D-MD-5308193-0-0	CASSIS		1
9006071-1	SCR FIL PAN ID #10-32 x 3/8 LG SST		4
9006625	WASHER INT TOOTH #10		4
B-D-530224-0	DECALS 853-F FWR CONT		1
1202550	SWITCH DPDT CENT OFF CH7563KG		1
1201703	METER ML 1906 120V 60 CY 10EBS		1
9006071-1	SCR YHL PAN ID #4-40 x 3/8 LG SST		3
9006557	NUT, KEPS #A-4G SST		3
900712	TERM, OFFSET # 6045-1 AMP		3
104722	SWITCH DIUST 7590K9 C.		1
9007071	SCR IHL PAN ID #6-32 x 3/8 LG SST		16
9007540	NUT KEPS #6-32 SST		20
120253	CAPACITOR (BAT) 2 x .1 MFD 1000V D.C.		2
120545F	LAMP, #1020C55 REV. INC		1
1201216-CC	CKT BKR, 20 AMP 2 PL 4 CURVE		1
9006881	SCR IHL PAN ID #6-32 x 3/8 AF X 3 LG		4
TITLE 104722 F POWER CONTROL		ASSY NO. D-U-A-053-F-0-O	SIZE CODE A PL
		SHEET 1 OF 2	DIST. 6

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	
1002056	SCR SLID #10-32 x 7/16 LG SST		4
C-MD-5308193-0-0	S FIELD		1
9006796	LUG, #41237 AMP		1
9007946	ADAPTER #300GM446 ARKLES		1
9006794	CONN #50906-7 ARKLES		1
9007589	SCR IHL PAN ID #6-32 x 3/8 LG SST		1
9007253	TERM STRIP #541 CINC. JONES		1
1007194	AMP LUG A5		2
1007755	TERM ADAPTER #200055-1 ARKLES		1
1007756	WIRE, #14 AWG STRD TEF INS GRN		A/R
1007757	TRI-REFLECTOR #RS205P4B4 3.E. 115V		5
1007758	WIRE, #14 AWG STRD TEF INS BLU		A/R
1006779	COLN., #102505 AMP		2
9007199	WIRE SPLICER 34071		2
9007919	COLN SLID #50906 ARKLES		24
9007920	WIRE, #14 AWG STRD TEF INS ORN		7
9107919-33	CONN, #34142 AMP		A/R
9107920	WIRE, #10 AWG STRD TEF INS RED		A/R
9107921	TIE WRAV #SST-2-B		A/R
9107922	WIRE, #10 AWG STRD TEF INS WT		A/R
9107923	WIRE, #14 AWG STRD TEF INS YEI		A/R
TITLE 104722 F POWER CONTROL		ASSY NO. D-U-A-853-F-0-	SIZE CODE A PL
		SHEET 2 OF 2	DIST. 6

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY ROBERT MUNNAK	CHECKED R. CARVELLI	SECTION
DATE 12/6/68	DATE 12/11/68	
ENG S. W. GERElds	PROD L. PRENTICE	ISSUED SECT
DATE 1/3/69	DATE 1/3/69	

DEC FORM NO.
DRA 110

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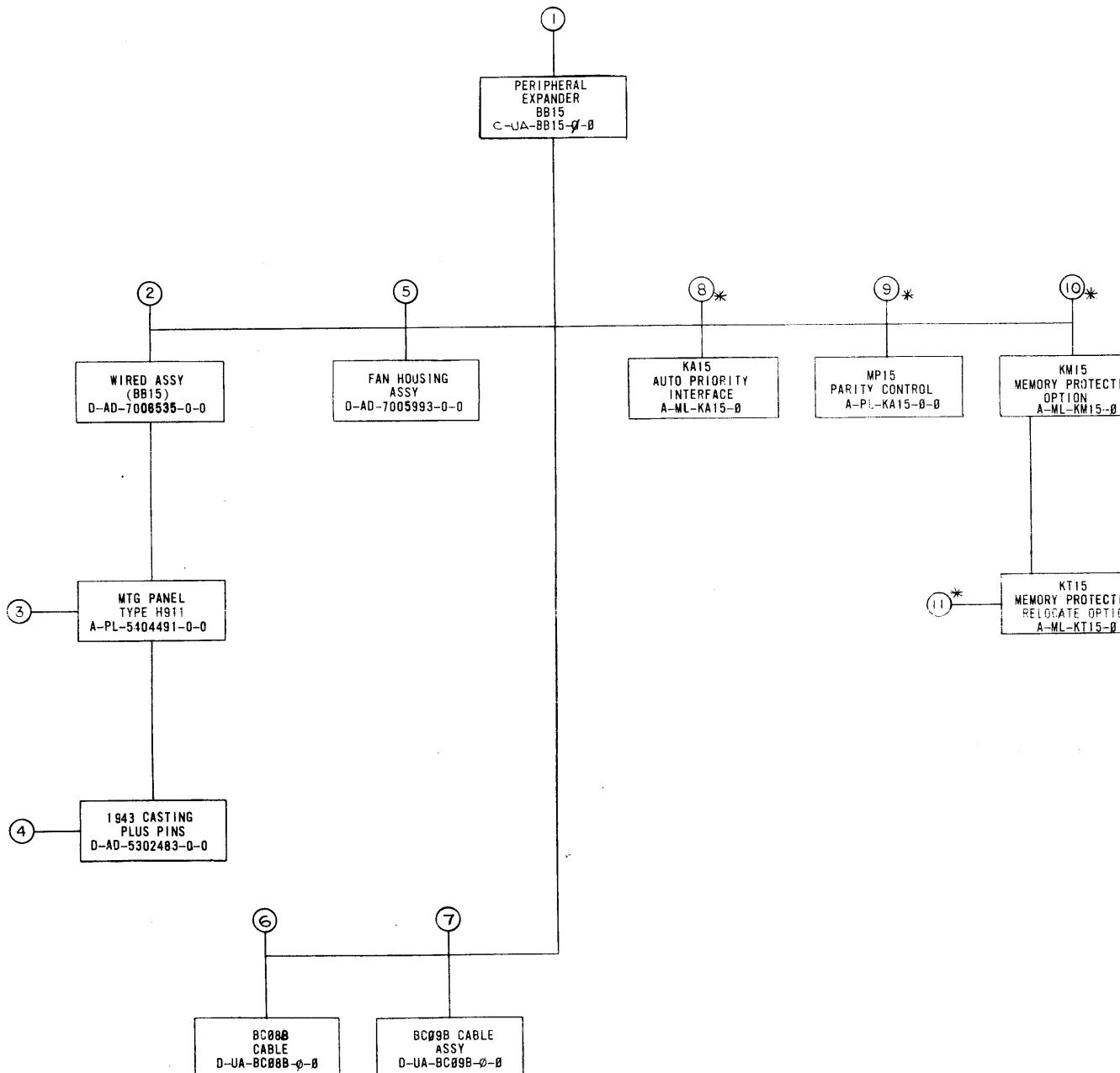
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NOTE
1 ITEMS INDICATED WITH (ASTERISK) *
ARE OPTIONAL



FOR UNIT ASSY TO A -PL-BB15-Ø-Ø

REVISIONS		CHANGE NO	REV
CHK	BB15-00001	A	
SWANSON	11/27/73		

UAC 1974
DRD 100

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4

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1

MECHANICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE		
FIND NO	DESCRIPTION	PART NO	PROD	CUST	F.C	FIND NO	DESCRIPTION	PART NO	PPCD	CUST	F.C
1	PERIPHERAL EXPANDER PERIPHERAL EXPANDER (PL) RET BLOCKS HARNESS (BB15)	C-U-A-BB15-Ø-Ø A-U-A-BB15-Ø-Ø C-MD-7407127-0-0 E-IA-7006539-0-0				1	PERIPHERAL EXPANDER SIGNAL WIRING	A-ML-BB15-Ø D-IC-BB15-Ø-Ø			
2	WIRED ASSY (BB15) WIRED ASSY (BB15)(PL) LOGIC FRAME DECALS	D-AD-7006535-0-0 A-PL-7006535-0-0 A-DC-7406371-0-0				2	WIRED ASSY (BB15) WIRED ASSY (BB15)(PL)	D-AD-7006535-0-0 A-PL-7006535-0-0			
3	MTG PANEL TYPE H911 MTG PANEL TYPE H911 (PL) 288 PIN CONN BLOCK TYPE #H805	D-AD-5404491-0-0 A-PL-5404491-0-0 E-SC-1205348-0-0				5	FAN HOUSING ASSY FAN HOUSING ASSY (PL)	D-AD-7005993-0-0 A-PL-7005993-0-0			
4	1943 CASTING PLUS PINS 1943 CASTING PLUS PINS (PL) 1943 FRAME CASTING	D-AD-5302483-0-0 A-PL-5302483-0-0 E-MD-1202885-0-0				8*	KA15 AUTO PRIORITY INTERFACE	A-ML-KA15-Ø			
5	FAN HOUSING ASSY FAN HOUSING ASSY (PL) FAN HOUSING DECAL FAN HOUSING	D-AD-7005993-0-0 A-PL-7005993-0-0 D-IA-7406892-0-0 A-DC-740731-0-0				9*	MP15 PARITY CONTROL	A-ML-KA15-Ø			
6	BC08B CABLE BC08B CABLE (PL) CLAMP CABLE	D-U-A-BC08B-Ø-Ø A-PL-BC08B-Ø-Ø B-MD-5508088-0-0				10*	KM15 MEMORY PROTECTION OPTION	A-ML-KM15-Ø			
7	BC09B CABLE ASSY BC09B CABLE ASSY (PL) SCR MODULE RET CABLE CLAMP MODULE HOLDER	D-U-A-BC09B-Ø-Ø A-F-U-BC09B-Ø-Ø C-MD-7405642-0-0 C-MG-7405639-0-0 D-SC-1209377-1-0				11*	KT15 MEMORY PROTECTION RELOCATE OPTION	A-ML-KT15-Ø			
8*	KA15 AUTO PRIORITY INTERFACE CABLE DUAL MYLAR M922-M922	A-PL-KL15-Ø-Ø C-IA-7006437-0-0				*	EQUIPMENT LAYOUT PDP 15	D-AR-PDP15-Ø-2			
9*	MP15 PARITY CONTROL	A-PL-MP15-Ø-Ø									
10*	KM15 MEMORY PROTECTION OPTION	A-PL-KM15-Ø-Ø									
11*	KT15 MEMORY PROTECTION RELOCATE OPTION	A-PL-KT15-Ø									

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FIRST USED ON OPTION/MODEL		EQUIPMENT CORPORATION	
4963-E		MAYNARD MASSACHUSETTS	
DO NOT SCALE DRAWING		DRN	DATE
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE
DIMENSION IN INCHES			
TOLERANCES			
DECIMALS FRACTIONS ANGLES			
= .005 = 1.64 ± 0°30'			
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS			
PROJ. ENG.		PROD.	DATE
MATERIAL		NEXT HIGHER ASSY	
FINISH		SCALE	
		SHEET	OF
		DIST.	G

DRAWING INDEX LIST (RB15)

UAC 1974
DRD 100

7

6

5

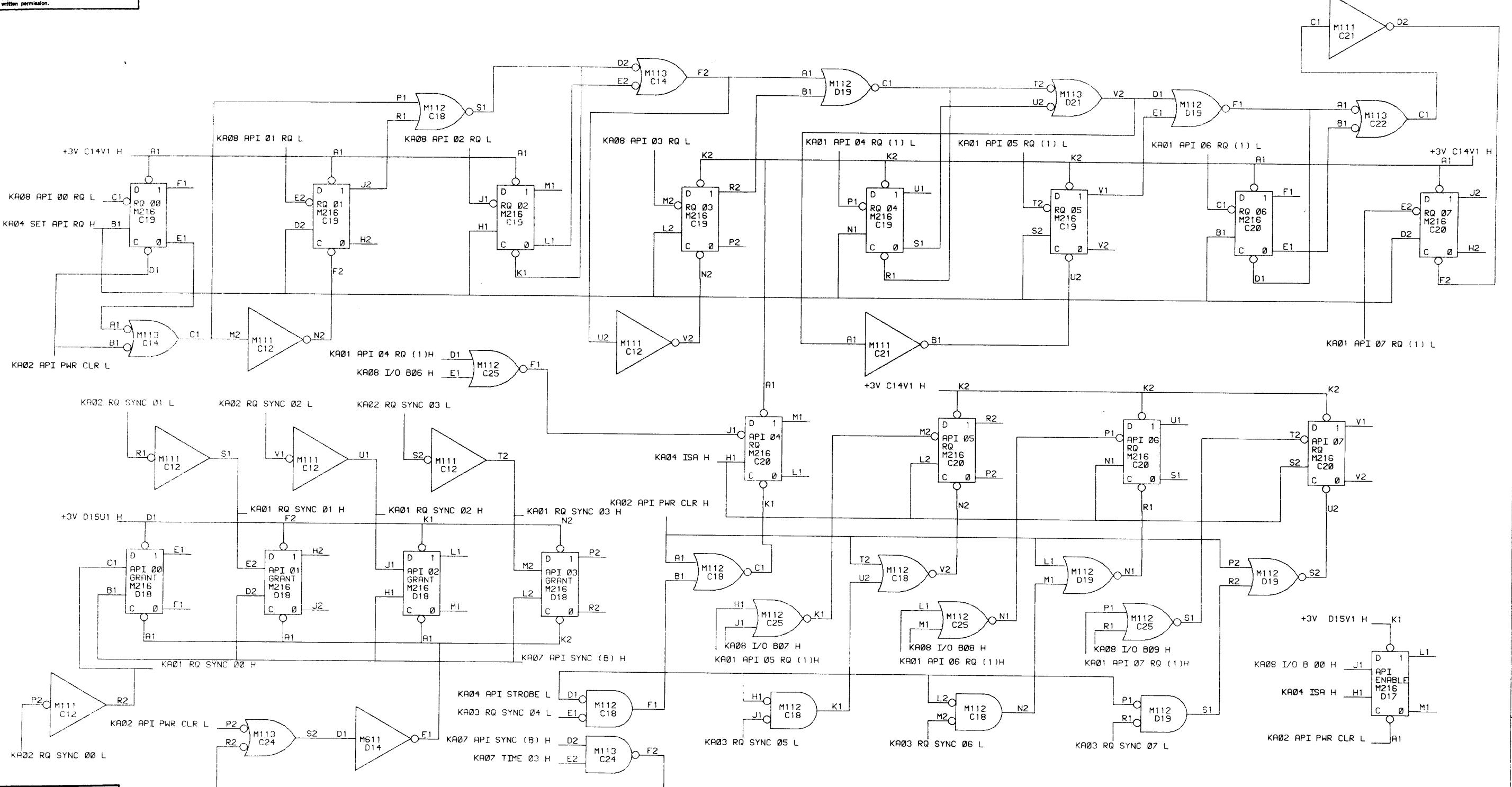
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3

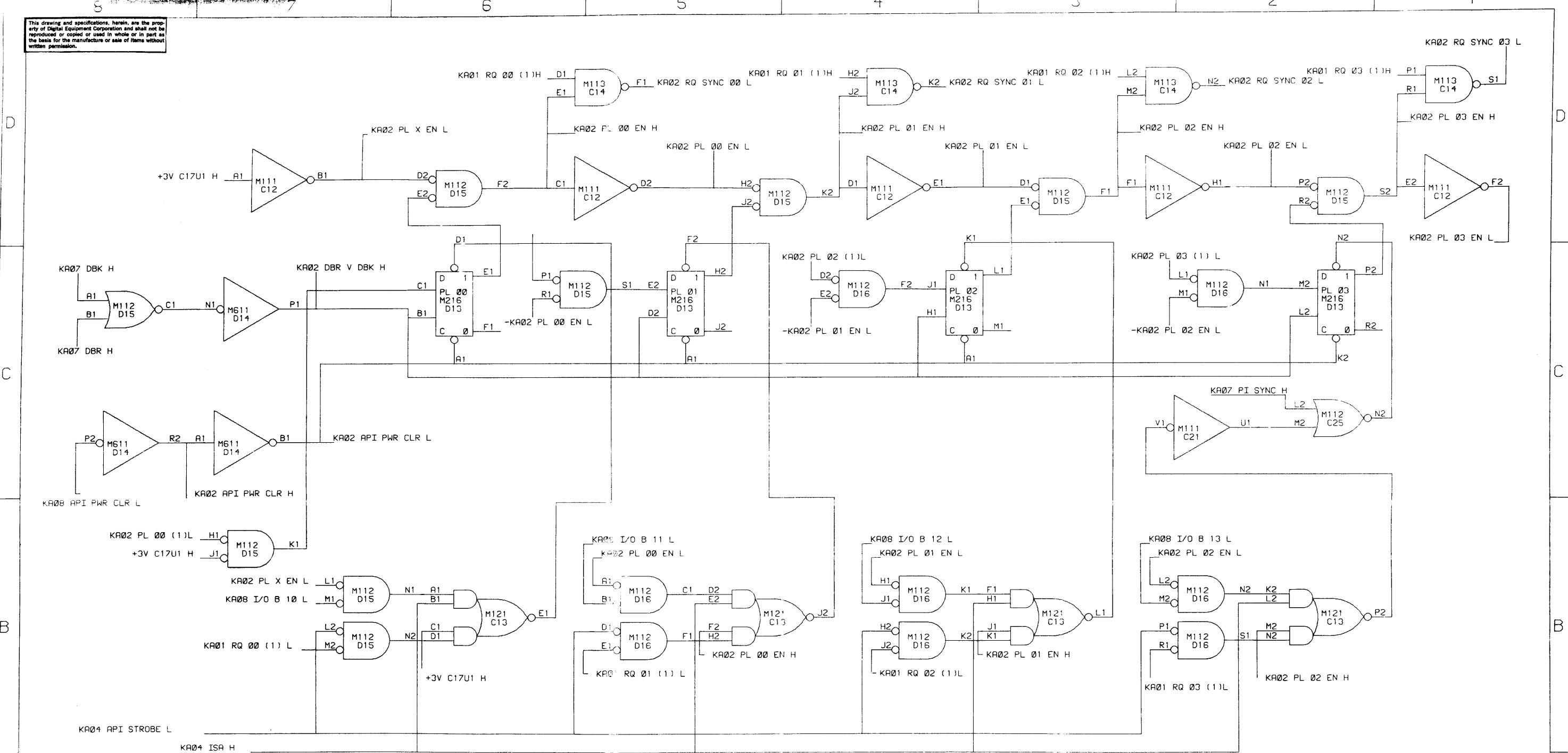
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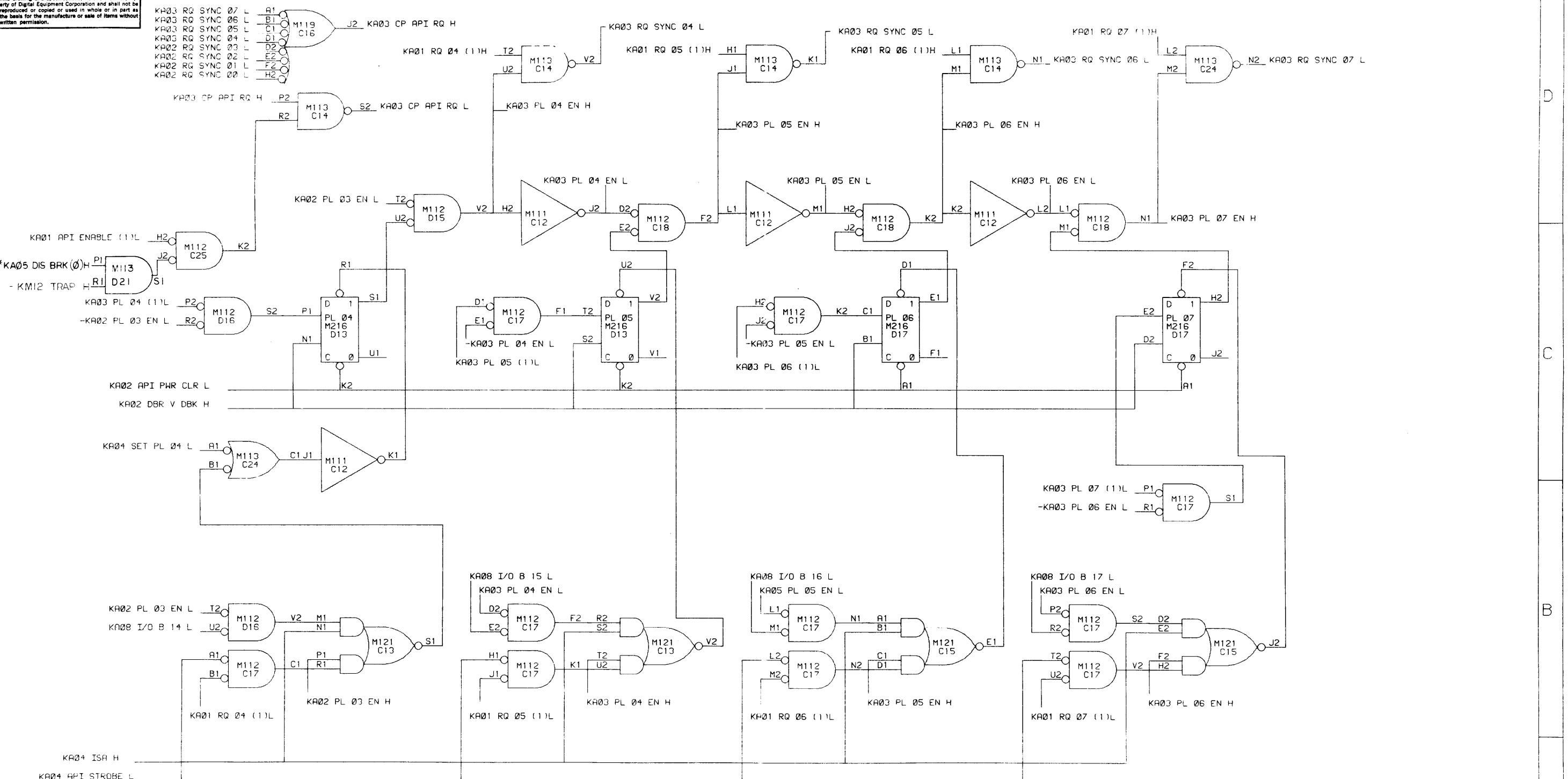
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REVISIONS

DRN.	<i>E. Cole</i>	DATE 3-12-70	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK#	<i>E. Daoust</i>	DATE 3-13-70	digital		
ENG.	<i>C. Cole</i>	DATE 3-25/70	TITLE		
PROJ. ENG.	<i>J. L. Klemann</i>	DATE 3-15/70	PRIORITY LEVELS 0-3		
PROD.	<i>F. Foley</i>	DATE 3-17/70			
FIRST USED QN					
KA15			SIZE	CODE	NUMBER
			D	BS	KA15-0-02
SCALE			REV.		
SHEET 1 OF 1			DIST.		

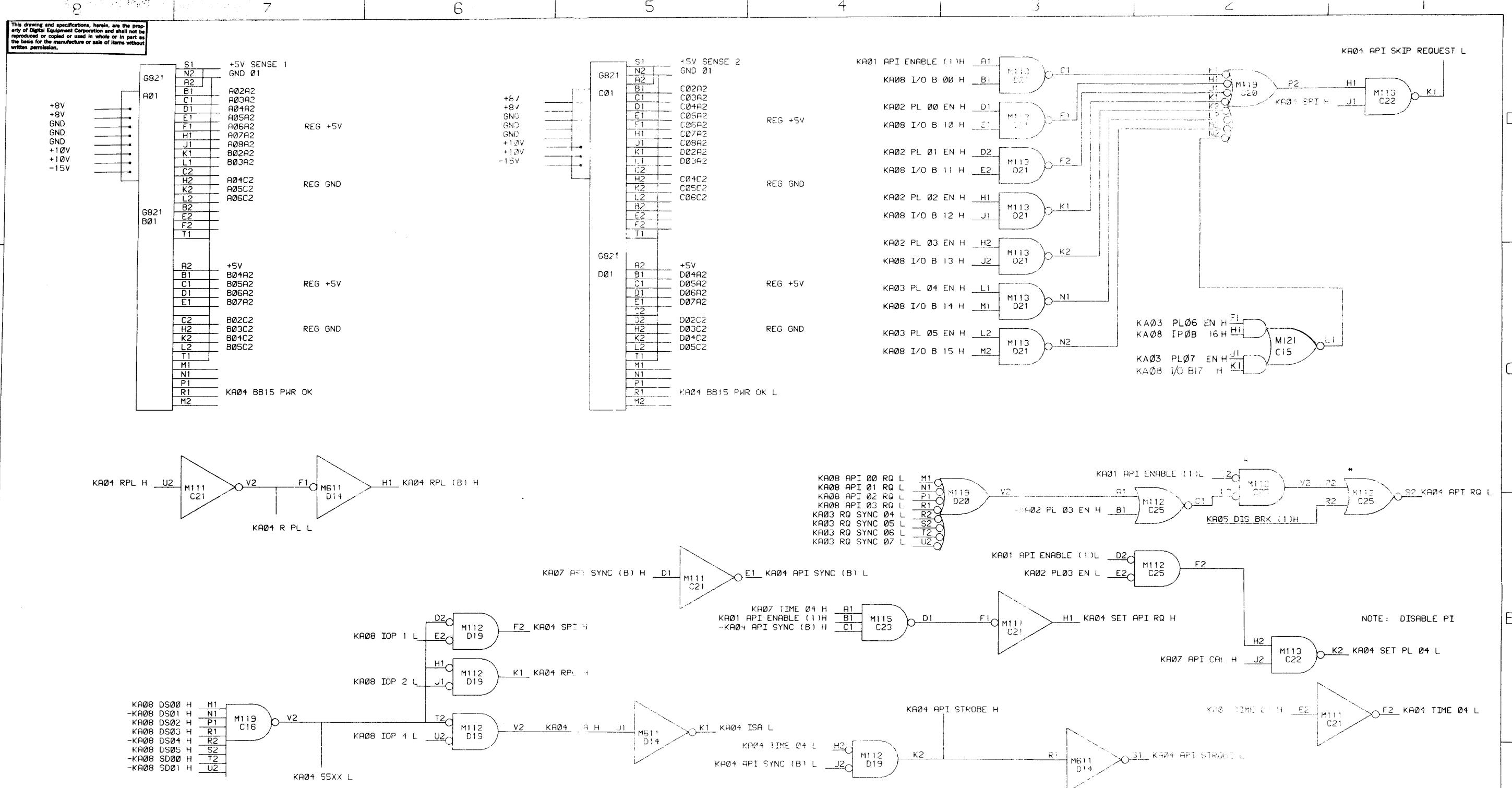
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* IF BB15 ECO#12 IS NOT INSTALLED,
THIS POINT IS +3V DC15V

REVISIONS		
CHK	CHANGE NO.	REV.
WLN	BB15-00012	A
	BB15-00020	B
	BB15-00030	C

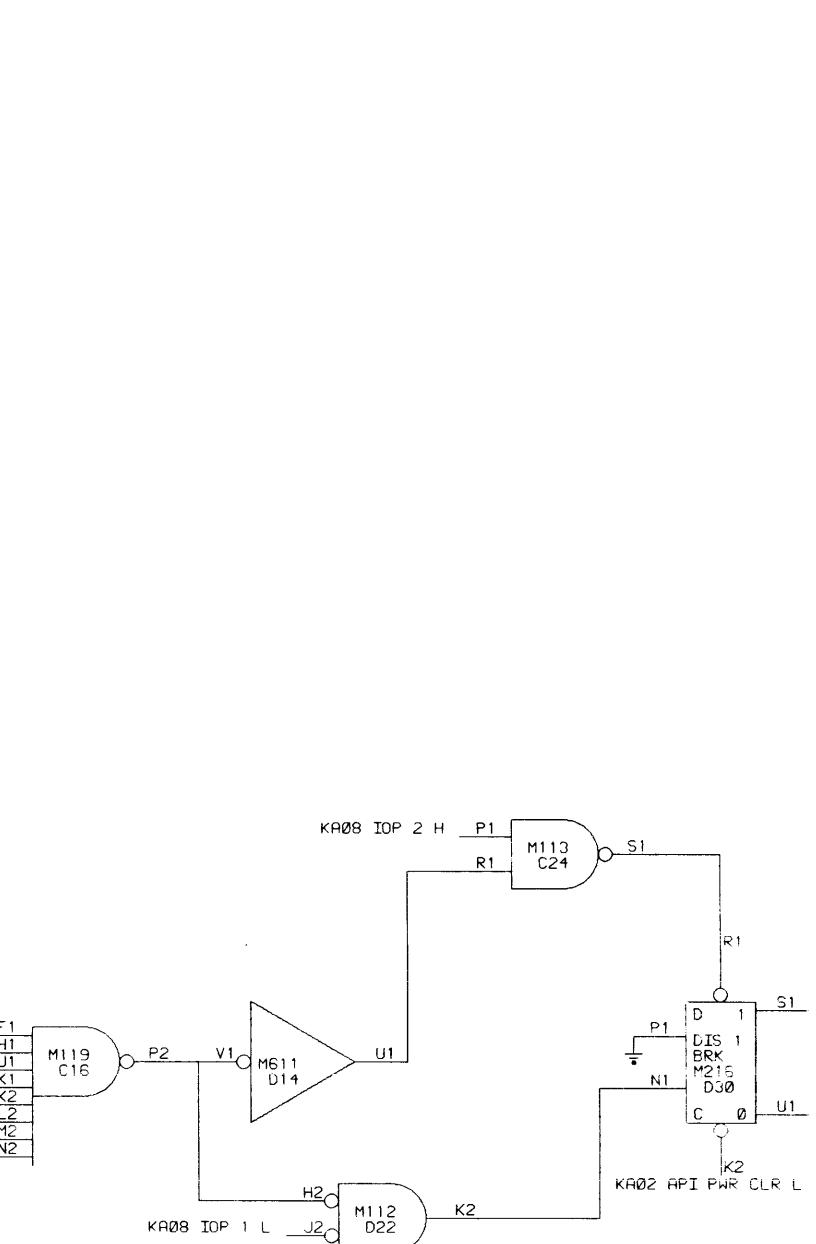
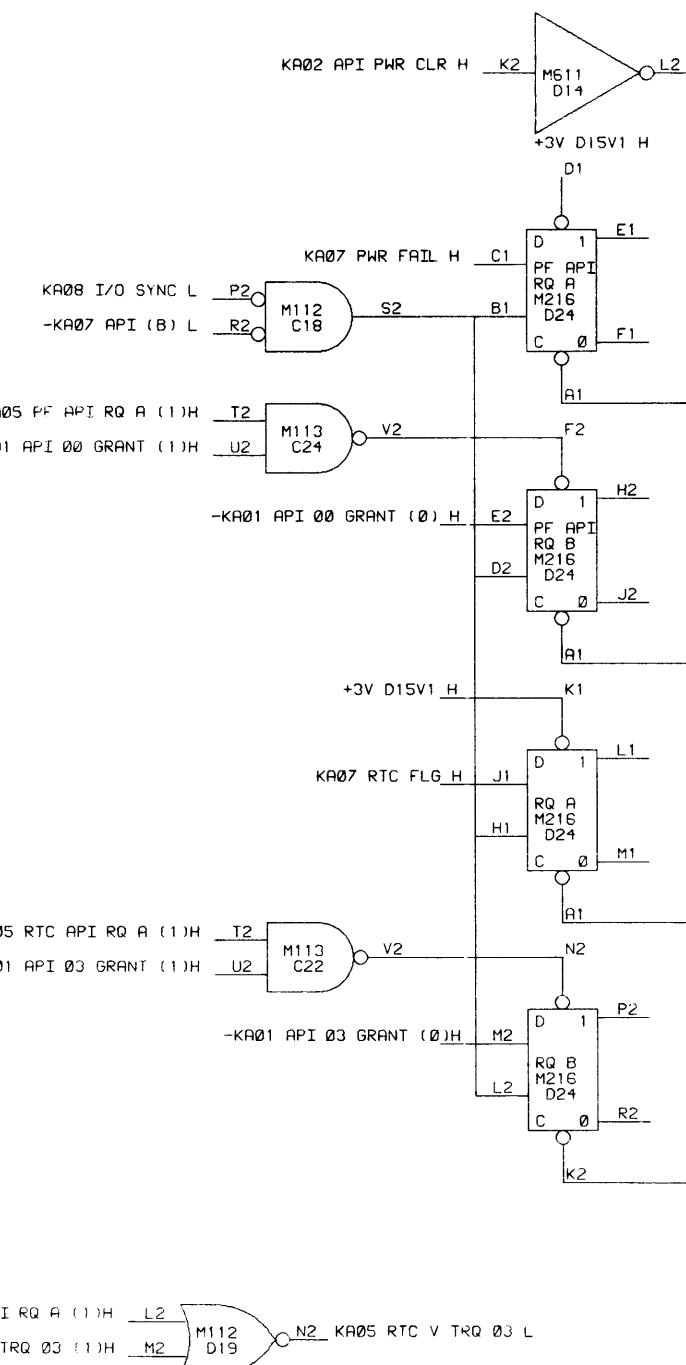
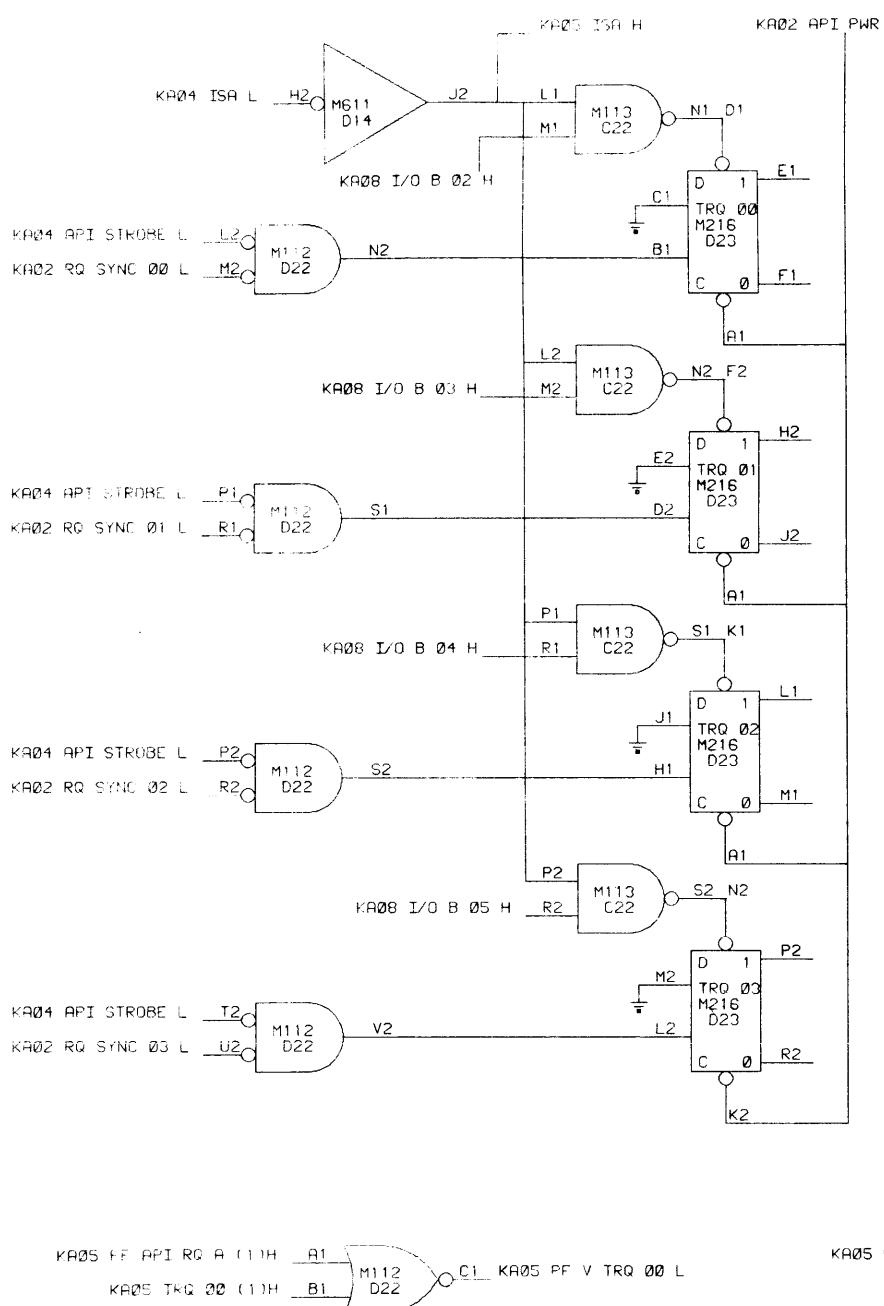
DRN. K. COTE	DATE 3/13/70	EQUIPMENT CORPORATION
CHKD. P. DAIGNEAULT	DATE 3/13/70	digital MAYNARD, MASSACHUSETTS
ENG. ELSBERE	DATE 3/25/70	TITLE PRIORITY LEVELS 04-07
PROJ. ENG. F. HUMANN	DATE 3/25/70	
PROD. F. LASKEY	DATE 3/27/70	
FIRST USED ON KH15	SIZE D SCALE	CODE BS NUMBER KA15-0-03
SHEET 1 OF 1	DIST.	REV. B



REVISIONS		REVISIONS			
CHK.	CHANGE NO.	REV.	CHK.	CHANGE NO.	REV.
RC	BB15-00004	A	9	BB15-00020	E
D. SOUTHER	4-23-70		J. ELSBREE	5-4-70	
J. ELSBREE	5-4-70		F. DOL		
H. BB15-00007	1B		I. PETERS	7-6-77	
I. PETERS	7-6-77		J. ELSBREE		
H. BB15-00020	1C		I. PETERS	7-8-77	
J. ELSBREE	7-8-77		F. DOL		
P. H. BB15-00019	1D				
F. DOL					
P. H. BB15-00019	1E				
F. DOL					

DRN	DATE	digital EQUIPMENT CORPORATION
CHK'D.	DATE	MAYNARD MASSACHUSETTS
ENG	DATE	TITLE
J. ELSBREE	7/25/70	API CONTROL
F. RUMMANN	7/25/70	
F. LASKEY	7/26/70	
FIRST USED ON		
DATE		
SCALL	0 BS	KA15-0-04
SHEET	1 OF 1	REV. E
	DIST.	

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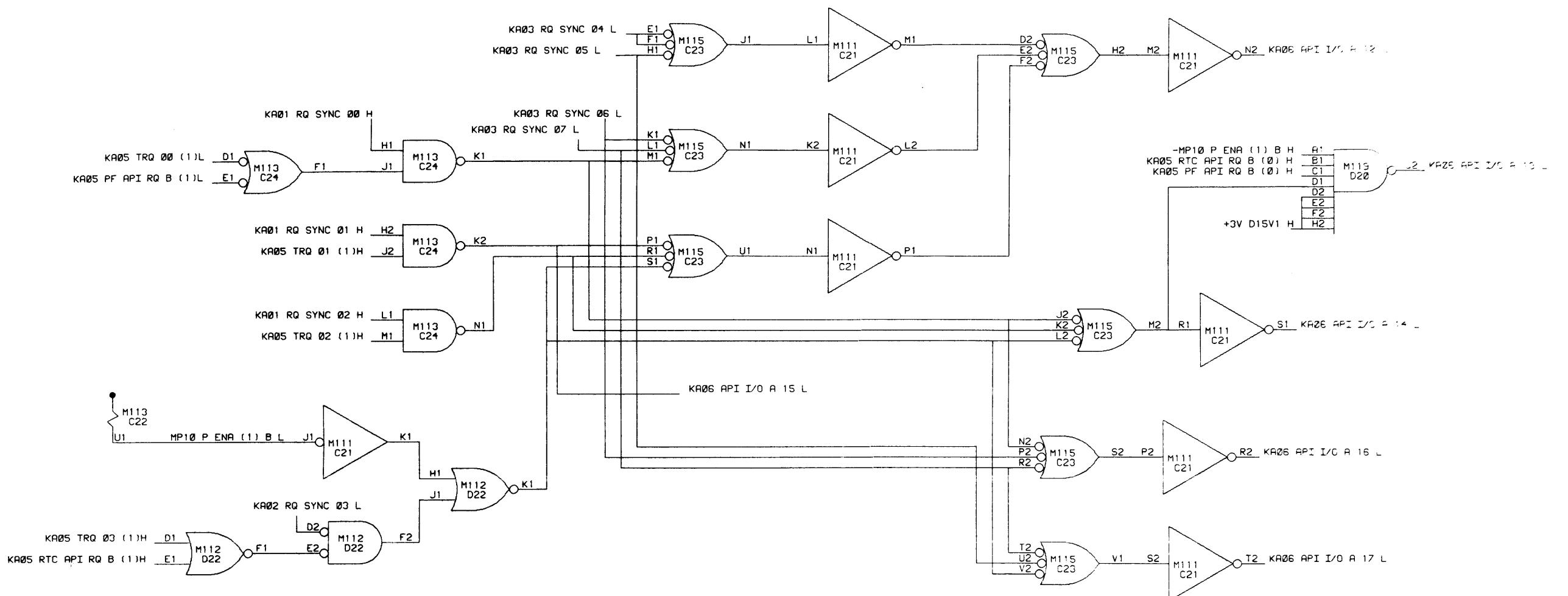


NOTE: ADDED BY OPTIONAL BB15 ECO#12
REQUIRED FOR REENTRANT PROGRAMMING.

REVISIONS		
CHK	CHANGE NO.	REV.
A2	BB15-00012	A
	BB15-00012	B
	BB15-00012	C
	BB15-00012	D
	BB15-00012	E
	BB15-00012	F
	BB15-00012	G
	BB15-00012	H
	BB15-00012	I
	BB15-00012	J
	BB15-00012	K
	BB15-00012	L
	BB15-00012	M
	BB15-00012	N
	BB15-00012	O
	BB15-00012	P
	BB15-00012	Q
	BB15-00012	R
	BB15-00012	S
	BB15-00012	T
	BB15-00012	U
	BB15-00012	V
	BB15-00012	W
	BB15-00012	X
	BB15-00012	Y
	BB15-00012	Z
	BB15-00012	AA
	BB15-00012	AB
	BB15-00012	AC
	BB15-00012	AD
	BB15-00012	AE
	BB15-00012	AF
	BB15-00012	AG
	BB15-00012	AH
	BB15-00012	AI
	BB15-00012	AJ
	BB15-00012	AK
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	BB15-00012	AY
	BB15-00012	AZ
	BB15-00	

8 7 6 5 4 3 2 1

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orporation and shall not be
or used in whole or in part as
feature or sale of Name without
written permission



REVISIONS		
CHK	CHANGE NO.	REV.

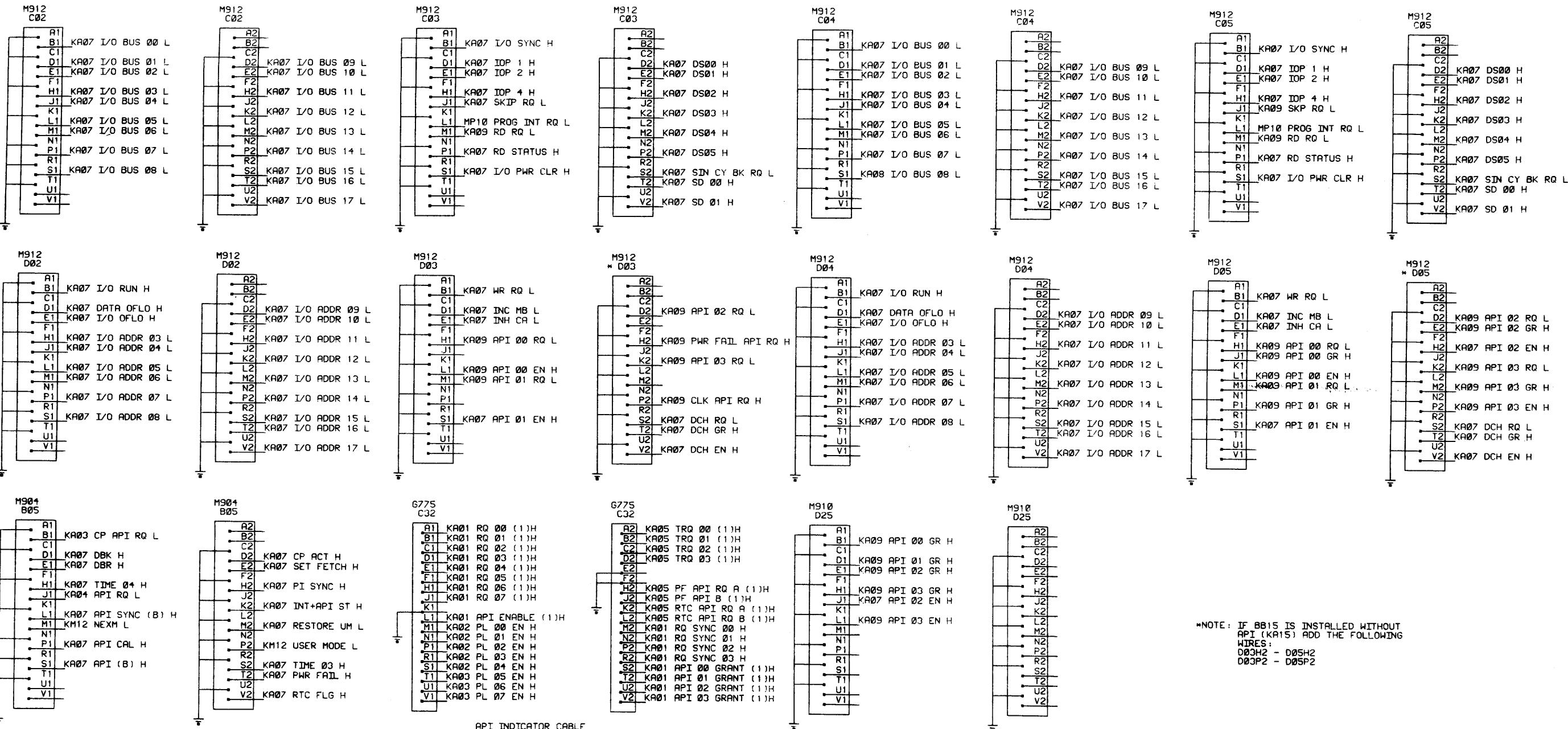
DRN	DATE	
K Gte	3/13/70	
CHND	DATE	
J Deserault	3/13/70	
ENG	DATE	
J Clabure	3/23/70	
PROD	DATE	
J Luman	3/13/70	
FIRST USED ON	DATE	
KA15	SIZE	NUMBER
SCALE	CODE	REV.
SHEET 1 OF 1	D 6S	KA15-0-06

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: I/O ADDRESS GATING

8 7 6 5 4 3 2 1

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*NOTE: IF BB15 IS INSTALLED WITHOUT
API (KA15) ADD THE FOLLOWING
WIRES:
D03H2 - D05H2
D02P2 - D05P2

DRN. K COTE	DATE 1/13/7	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHKD. S PRIGNEAULT	DATE 3/13/7	TITLE	
ENG. J ELSBREE	DATE 3/25/7	API CABLES	
PROJ. ENG. F ALMANN	DATE 3/25/7		
PROD. F LASKEY	DATE 3/27/7		
FIRST USED ON KA15			
SCALE	D BS	NUMBER KA15-0-07	REV. A
SHEET 1 OF 1	DIST.		

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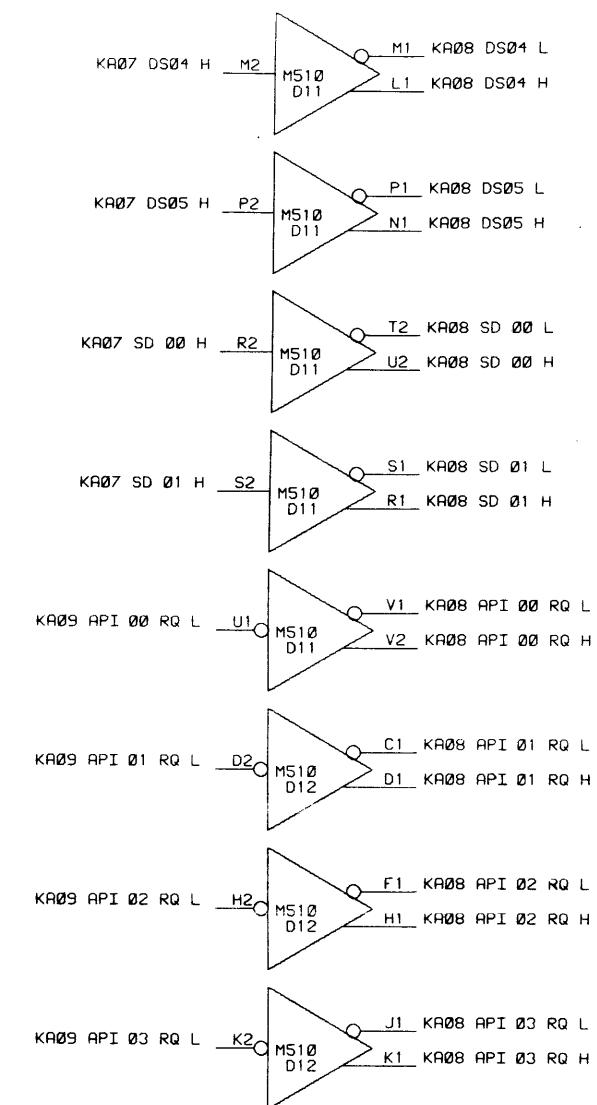
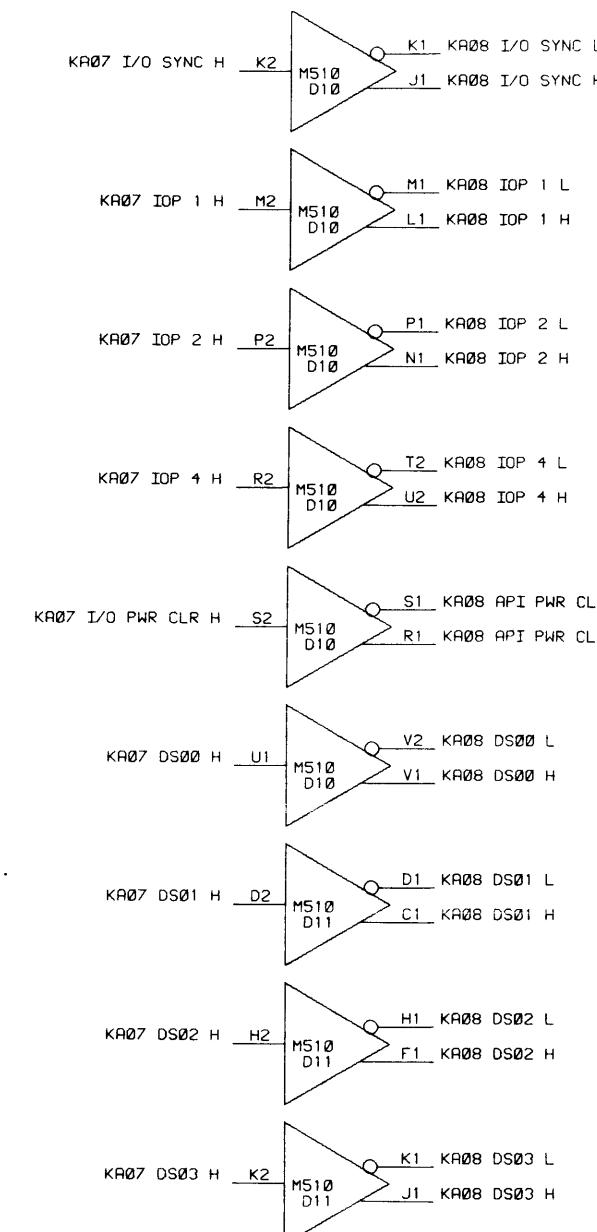
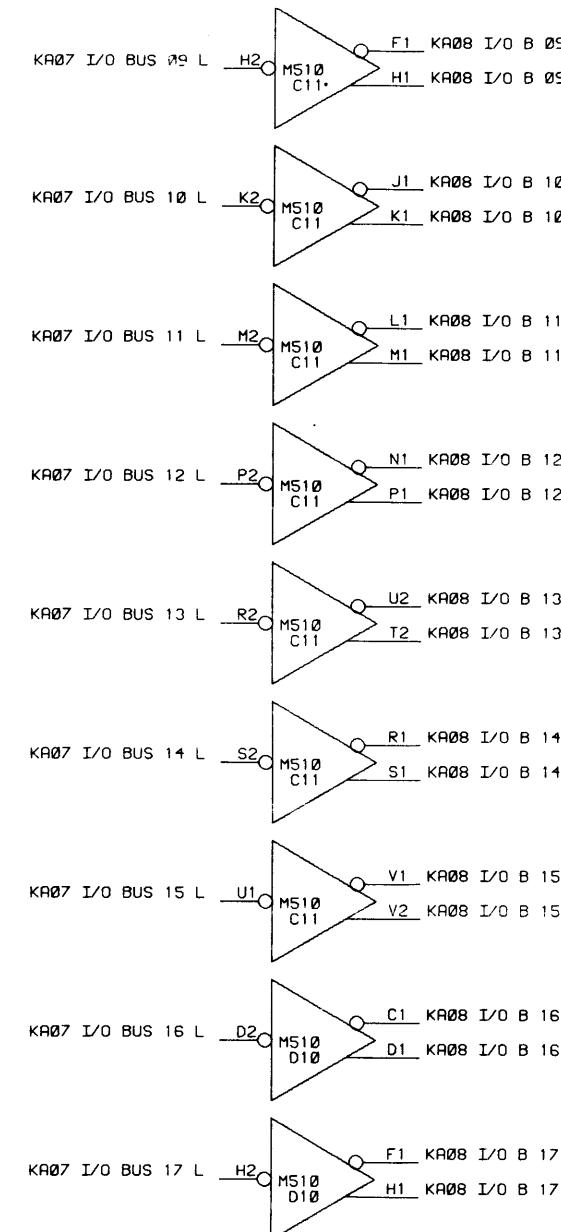
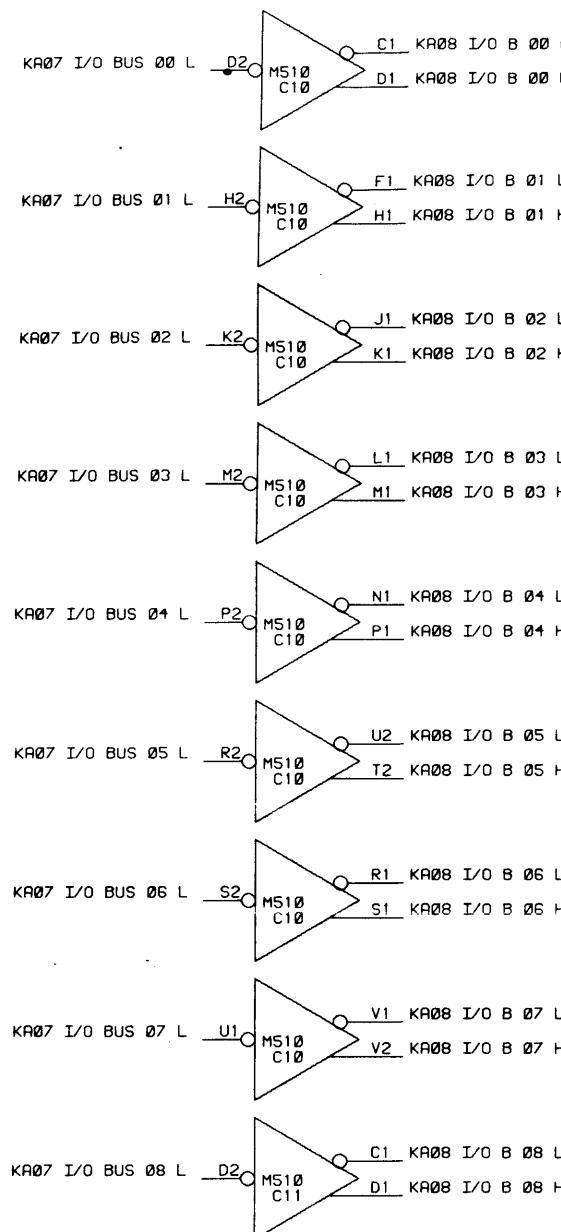
4

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1

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D

D

C

C

B

B

REVISIONS		
CHK	CHANGE NO.	REV.

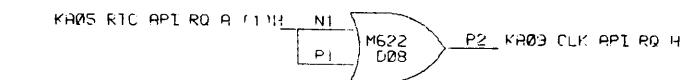
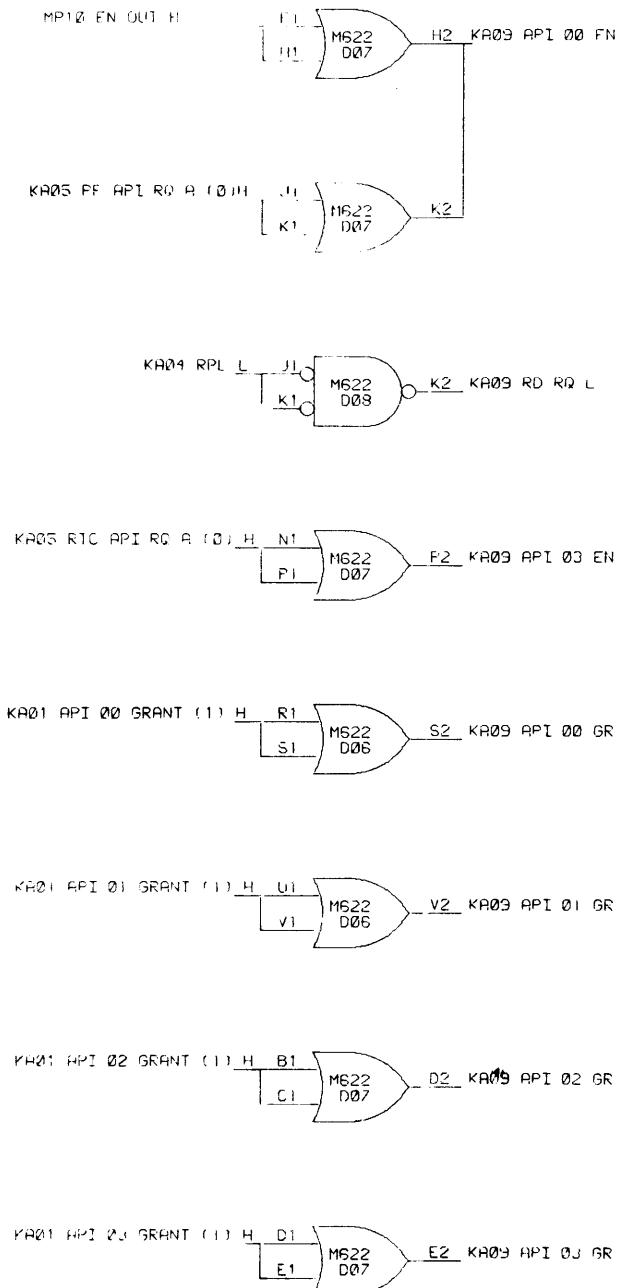
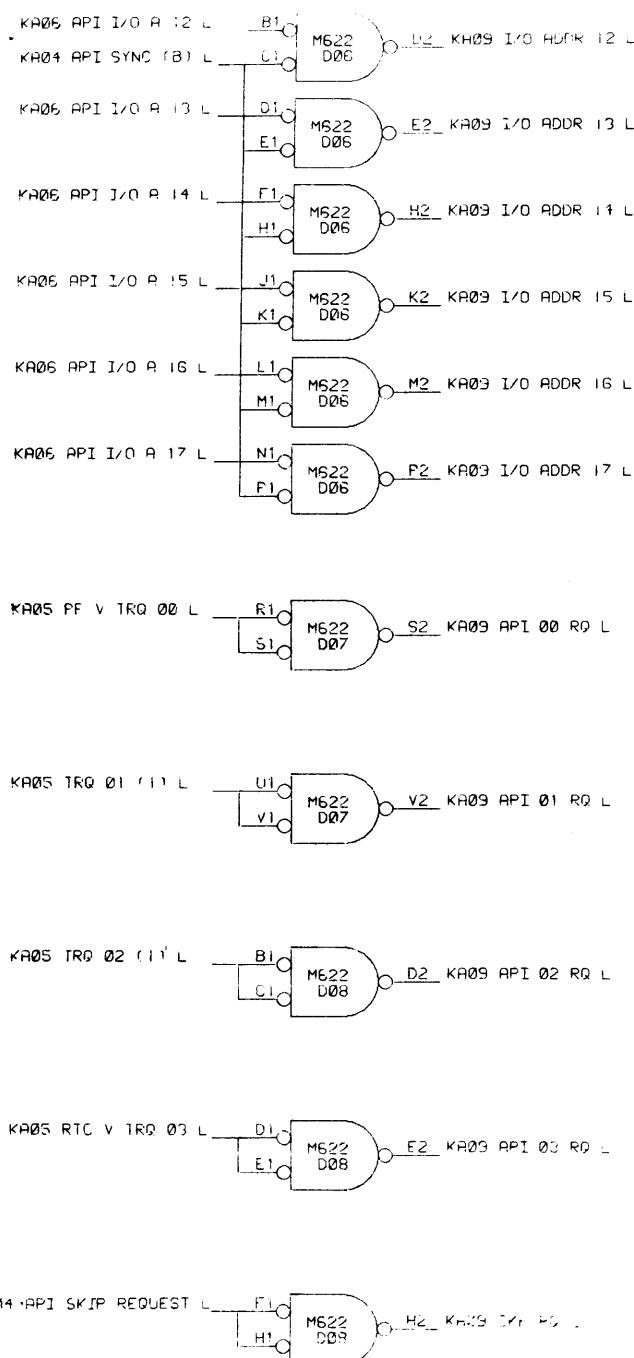
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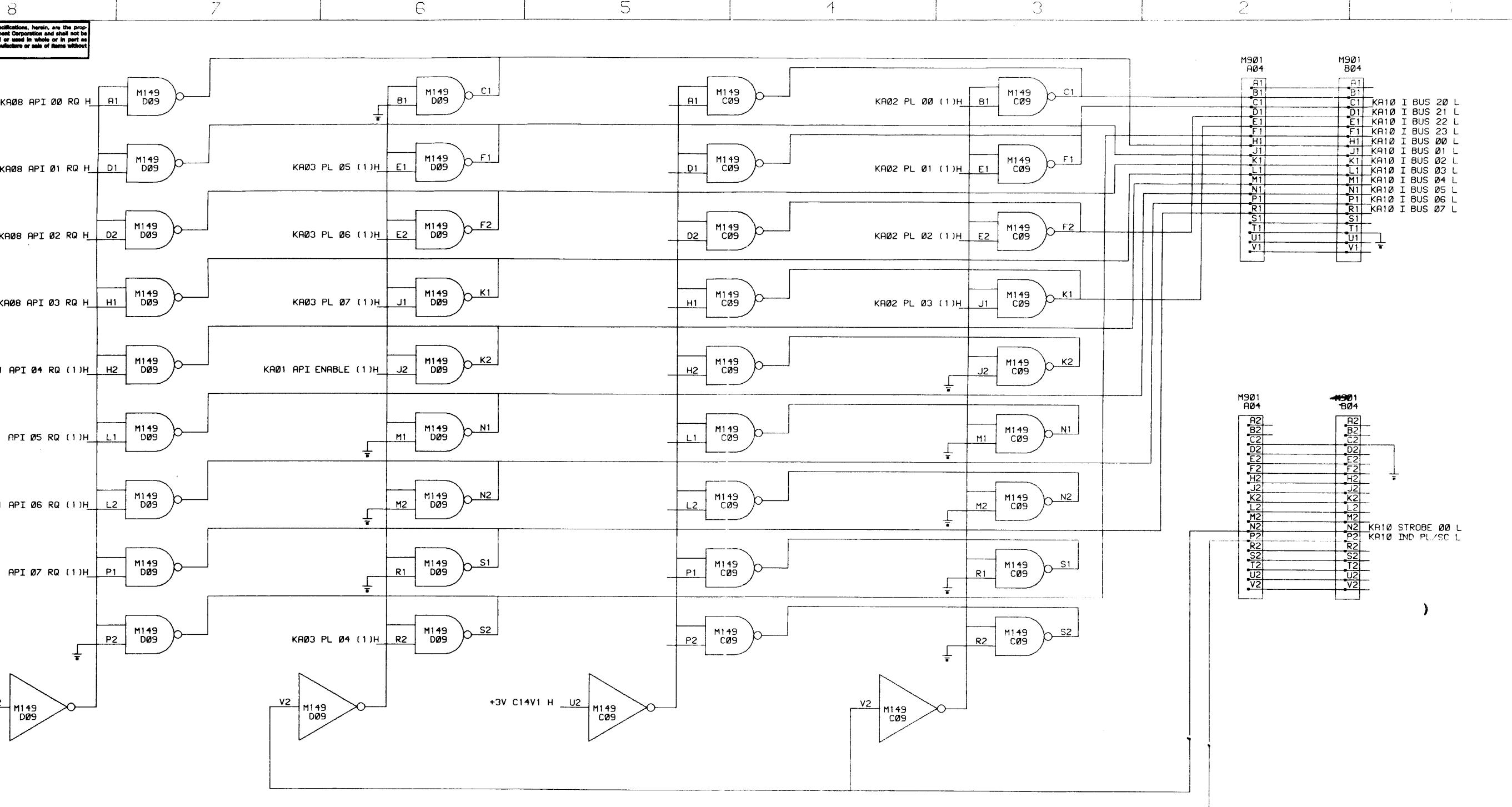
DRW	DATE	3-12-70		
CHND	DATE	3-13-70		
ENG	DATE	3/25/70		
PROD	DATE	3/25/70		
FIRST USED ON	DATE	3/2/70		
KH15	SIZE	CODE	NUMBER	REV.
SCALE	D	BS	KA15-0-08	
SHEET	1	OF	1	DIST.

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REVISIONS		
CHK.	CHANGE NO.	REV.
A/1	BR15-00011	A

DRN.	DATE	EQUIPMENT	
K-COTE	3/13/70	digital	CORPORATION
CHNG.	DATE		MAYNARD, MASSACHUSETTS
P-DESIGNER/ULT	3/13/70		TITLE
J-ELSBREE	3/25/70	MISC DRIVERS	
ENG.	DATE		
F-HUMANN	3/25/70		
PROJ. ENG.	DATE		
F-LASKEY	3/27/70		
PROD.	DATE		
F-LASKEY	3/27/70		
FIRST USED ON			
KA15	SIZE CODE	NUMBER	REV.
SCALE	D BS	KA15-0-09	A
SHEET	OF	DIST.	

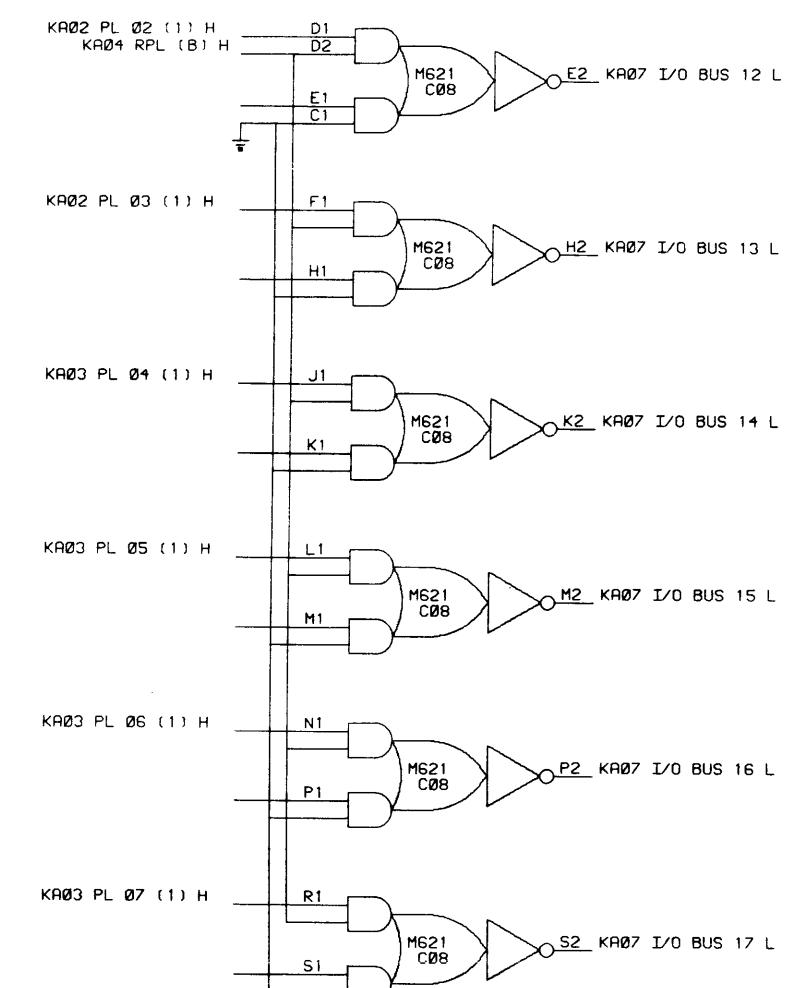
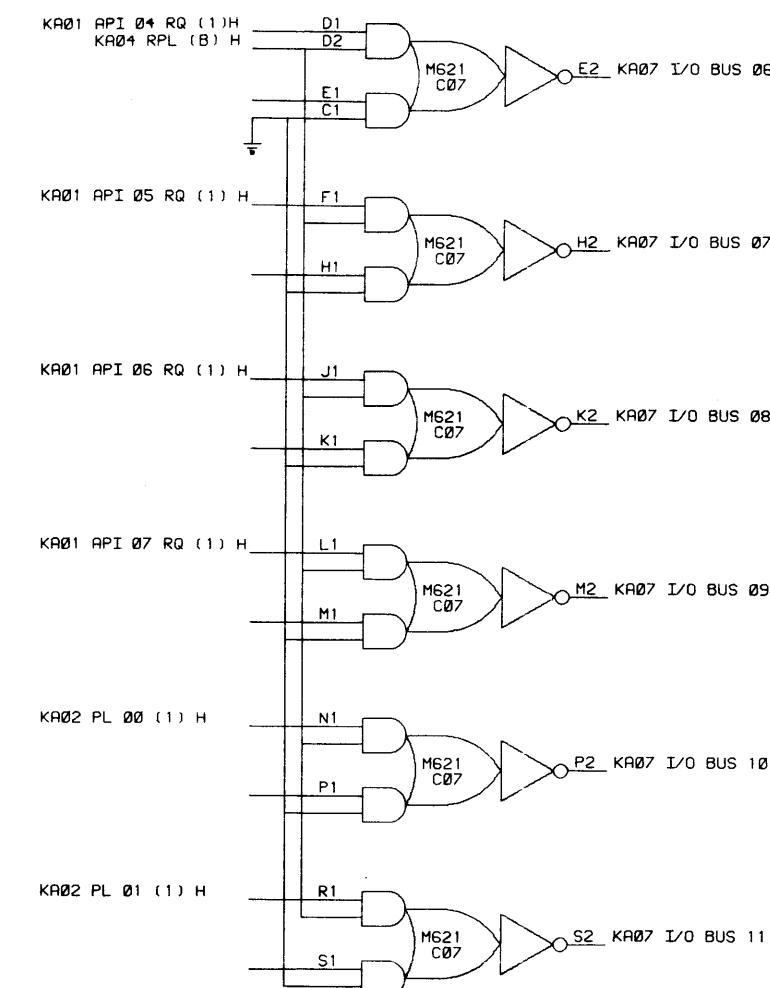
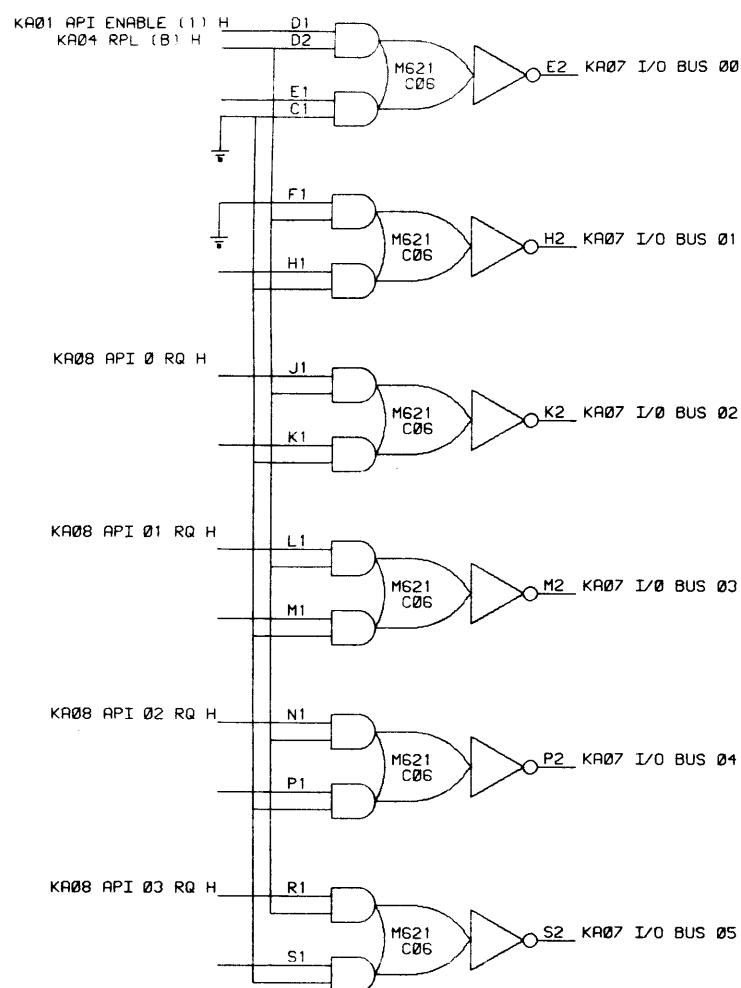


REVISIONS		
CHG	CHANGE NO.	REV.
ABC	KA15-00004	A
	KA15-00004	B
	KA15-00004	C
	KA15-00004	D
	KA15-00004	E
	KA15-00004	F
	KA15-00004	G
	KA15-00004	H
	KA15-00004	I
	KA15-00004	J
	KA15-00004	K
	KA15-00004	L
	KA15-00004	M
	KA15-00004	N
	KA15-00004	O
	KA15-00004	P
	KA15-00004	Q
	KA15-00004	R
	KA15-00004	S
	KA15-00004	T
	KA15-00004	U
	KA15-00004	V
	KA15-00004	W
	KA15-00004	X
	KA15-00004	Y
	KA15-00004	Z

DRN K. COLE	DATE 3/20/70	EQUIPMENT	
CHKD DRIGNEAULT	DATE 3/20/70	corporation	MAYNARD, MASSACHUSETTS
ENG ELSBREE	DATE 3/25/70	digital	TITLE
PROJ ENG THUHANN	DATE 3/25/70	I BUS DRIVERS	
PROD LASKEY	DATE 3/27/70		
FIRST USED ON KA15		SIZE CODE 755	NUMBER KA15-0-10
SCALE		REV. H	
SHEET 1	OF 1	DIST	

8 7 6 5 4 3 2

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D

D

C

C

B

B

A

A

REVISIONS		
CHK	CHANGE NO.	REV.

DES. K.Cate	DATE 3-3-76	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHGRD. G.Beaumont/H	DATE 3-13-76	
ENG. J.Clebrese	DATE 3-13-76	
TEST/PKG. W.Clemmons	DATE 3-13-76	
PROD. F.Lee	DATE 3-13-76	
FIRST USED ON KA15	SHEET OF 1	
SIZE/CODE D 1 BS	NUMBER KA15-0-11	REV. B
SCALE DIST.		

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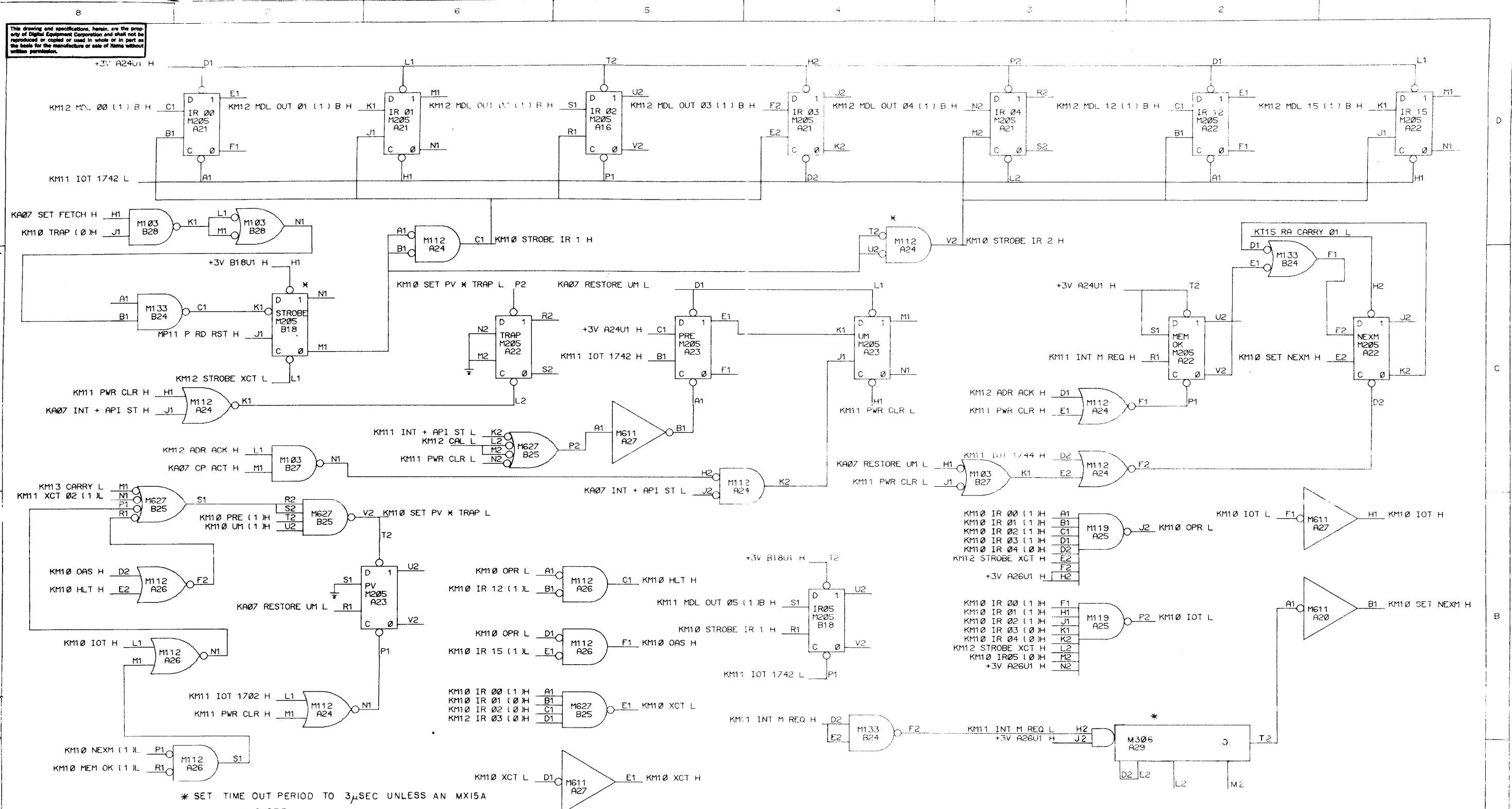
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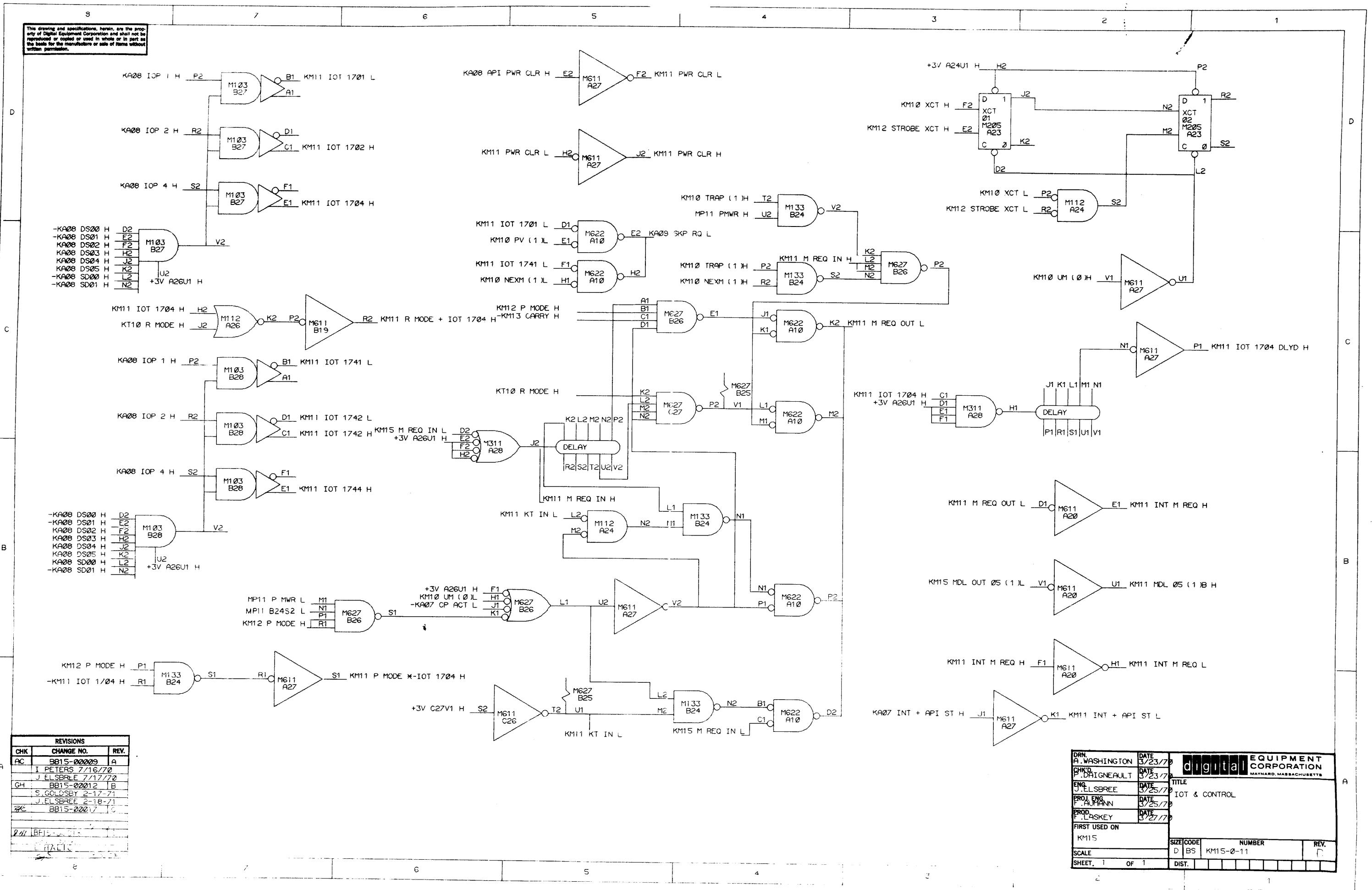


SET TIME OUT PERIOD TO 40 μ SEC IF MX15A IS IN THE SYSTEM AND THE MX IS JUMPERED FOR EQUAL PRIORITY.

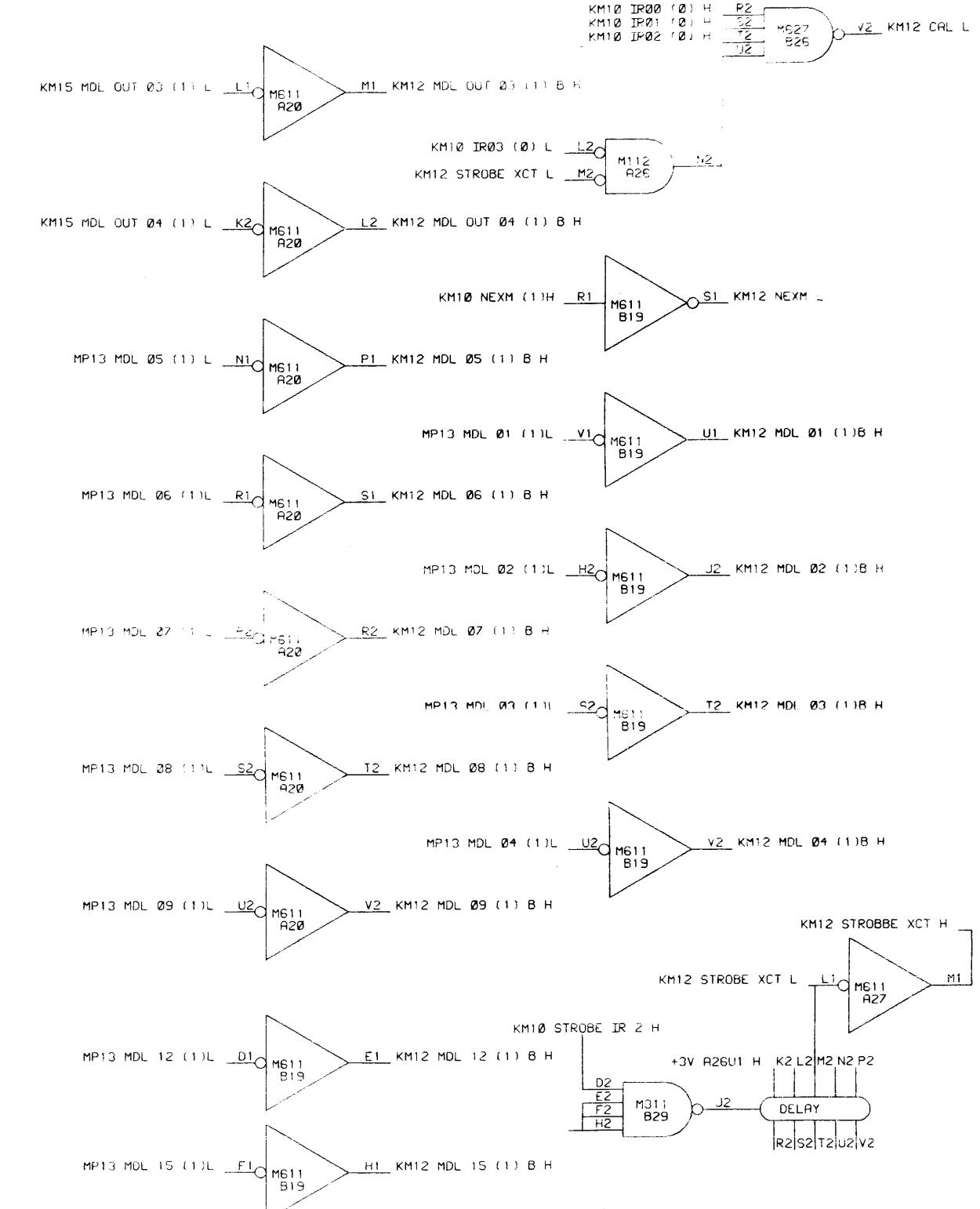
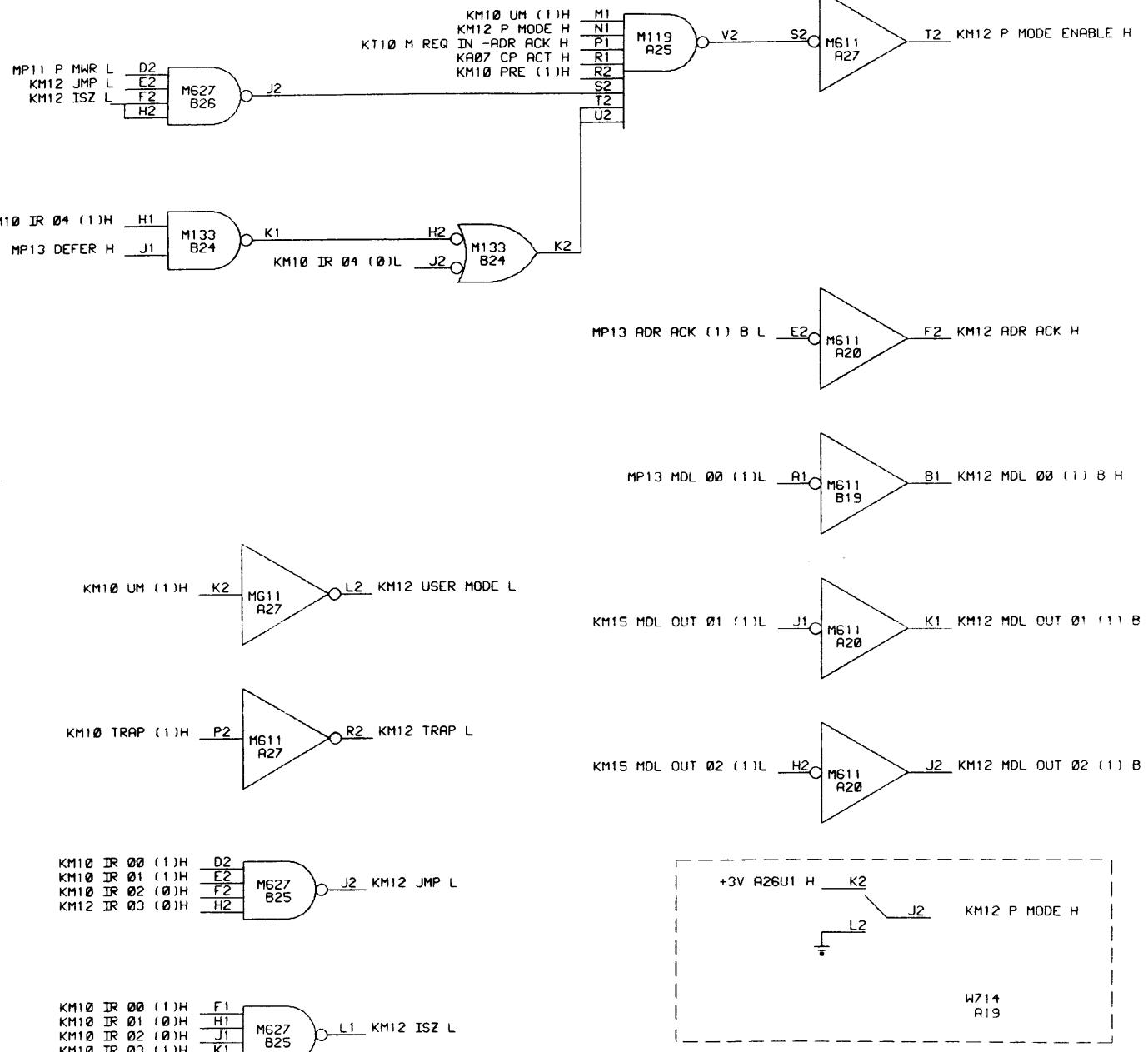
SET TIME OUT PERIOD TO A VALUE GREATER THAN THE TIME THE PROCESSOR CAN BE HELD OFF IF THE MX IS JUMPERED FOR ABSOLUTE PRIORITY.

REVISIONS		
CHK	CHANGE NO.	REV.
GH	BB15-00012	A
	S.GOLDSBY 2-17-71	
	J.ELSBREE 2-18-71	
GH	BB15-00015	B
	G.WYATT 6-13-71	
	J.ELSBREE 6-15-71	
	BB15-00017	C
F.ELSBREE		

DRN A WASHINGTON	DATE 3/23/70	digital EQUIPMENT CORPORATION
CHKD DAIGNEAULT	DATE 3/23/70	
ENG J.ELSBREE	DATE 3/25/70	TITLE CONTROL
PROL ENG F.HUHMANN	DATE 3/25/70	
PROD F.LASKEY	DATE 3/27/70	
FIRST USED ON KM15		
SIZE CODE D / BS	NUMBER KM15-0-10	REV. C
SCALE 1 OF 1	DIST.	



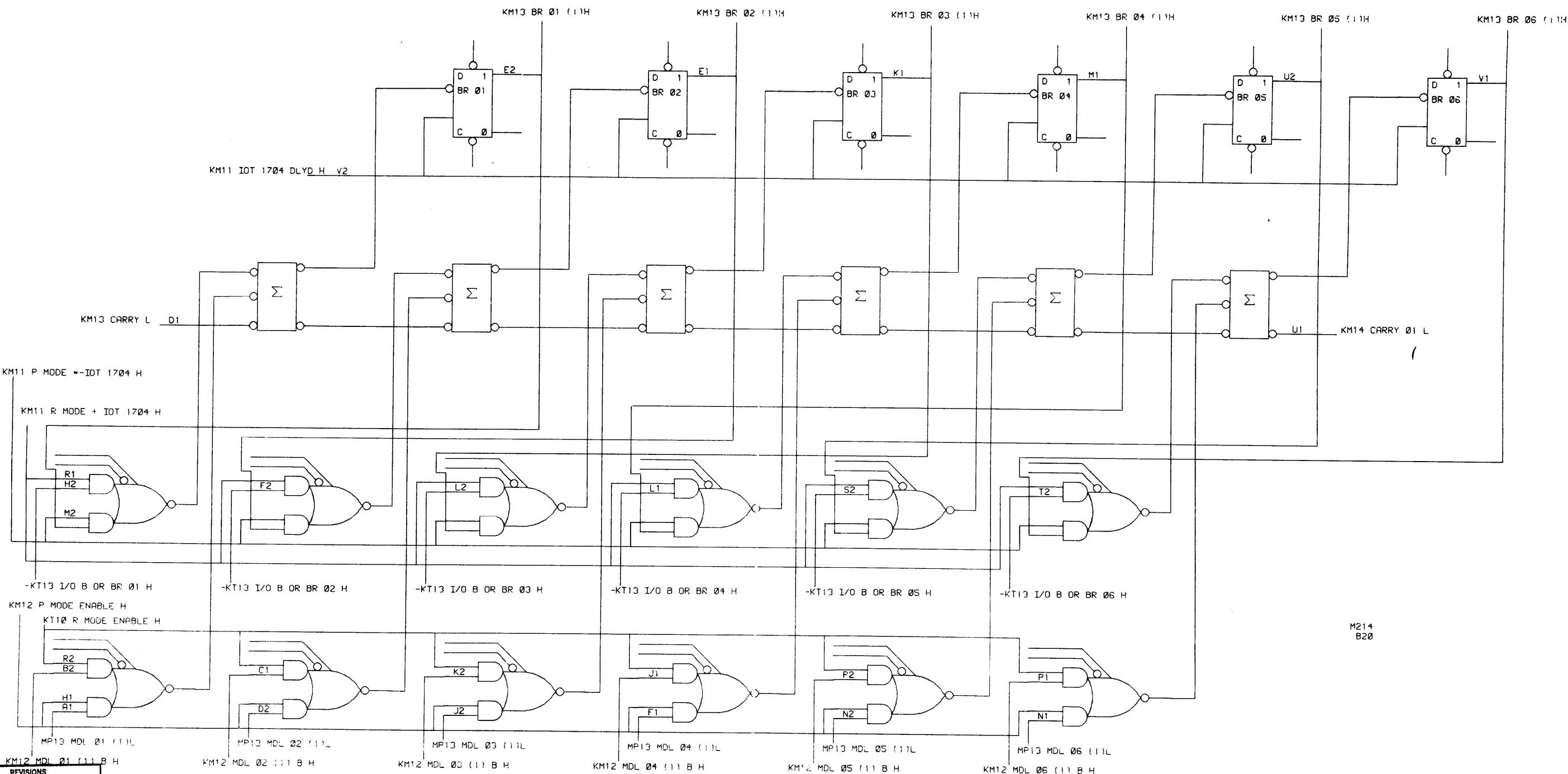
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DRN. A WASHINGTON	DATE 3/23/70	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
CHK'D. P DAIGNEAULT	DATE 3/23/70		
ENG. J ELSBREE	DATE 3/25/70	TITLE P MODE ENABLE	
PROJ. ENG. F AUMANN	DATE 3/25/70		
PROD. F LASKEY	DATE 3/27/70		
FIRST USED ON			
KM15			
SCALE			
SHEET 1	OF 1		
SIZE D	CODE BS	NUMBER KT115-0-12	REV. A
DIST			

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2 0 6 4 3 2 1

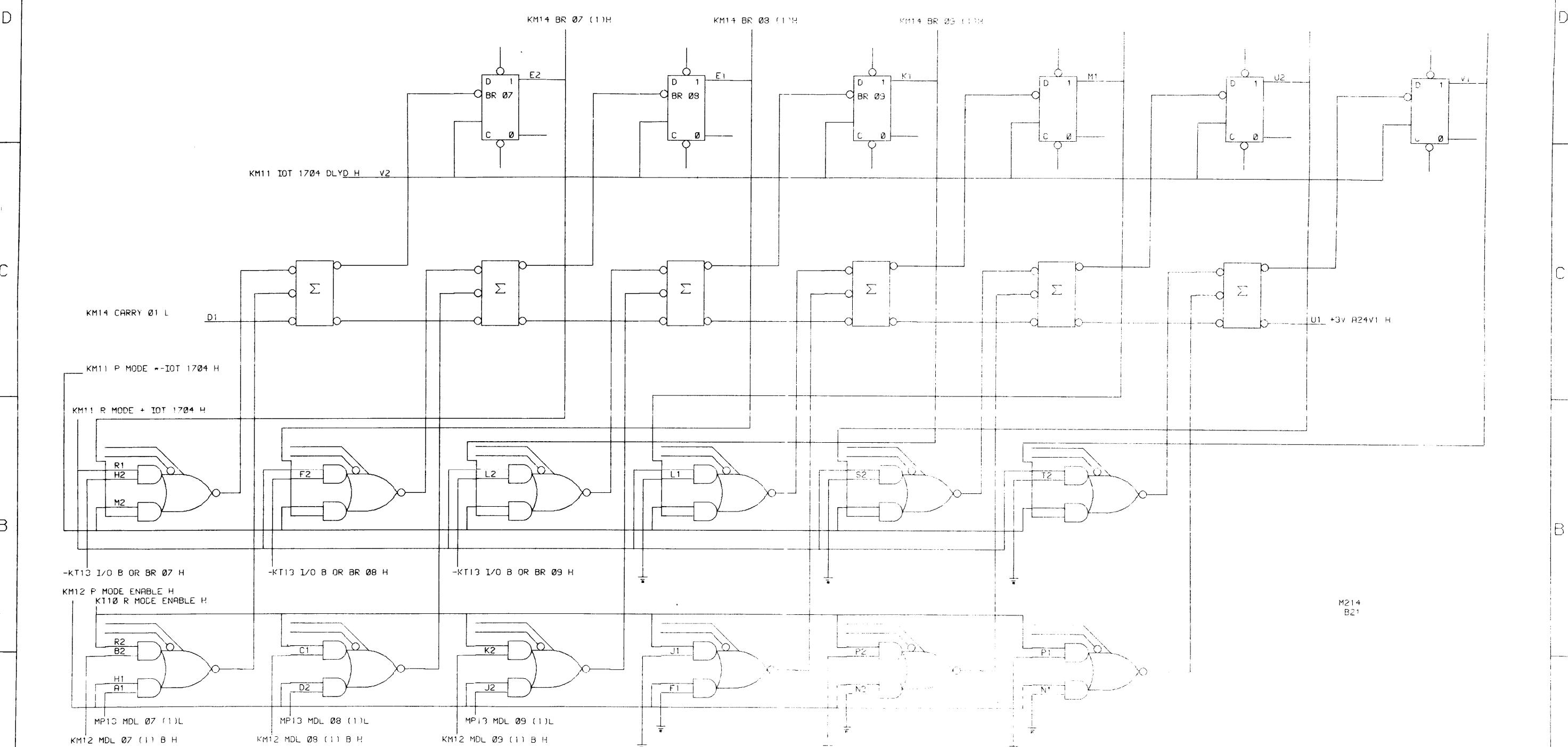


REVISIONS

CHK	CHANGE NO.	REV.

DIM.	<i>Washington</i>	DATE	1-23-70			
CHN'D.	<i>Washington</i>	DATE	3-23-70			
ENG.	<i>T. Colvin</i>	DATE	3-26-70			
PROD. ENG.	<i>J. L. Cusman</i>	DATE	3-26-70			
PROD.	<i>P. L.</i>	DATE	3-27-70			
FIRST USED ON						
KM15						
SCALE	D	CODE	NUMBER	REV.		
SHEET	i	OF	1	DIST.	00	

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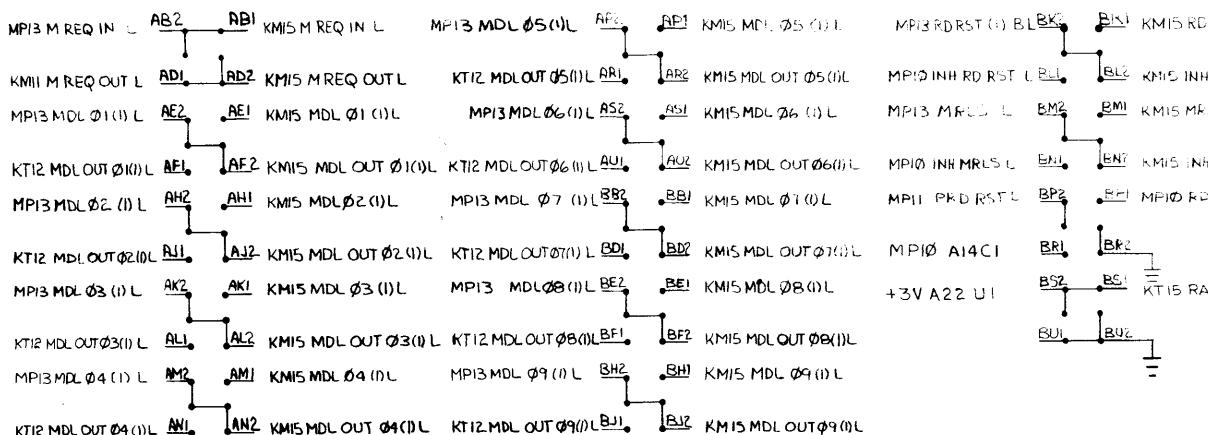


REVISIONS		
CHK	CHANGE NO.	REV.

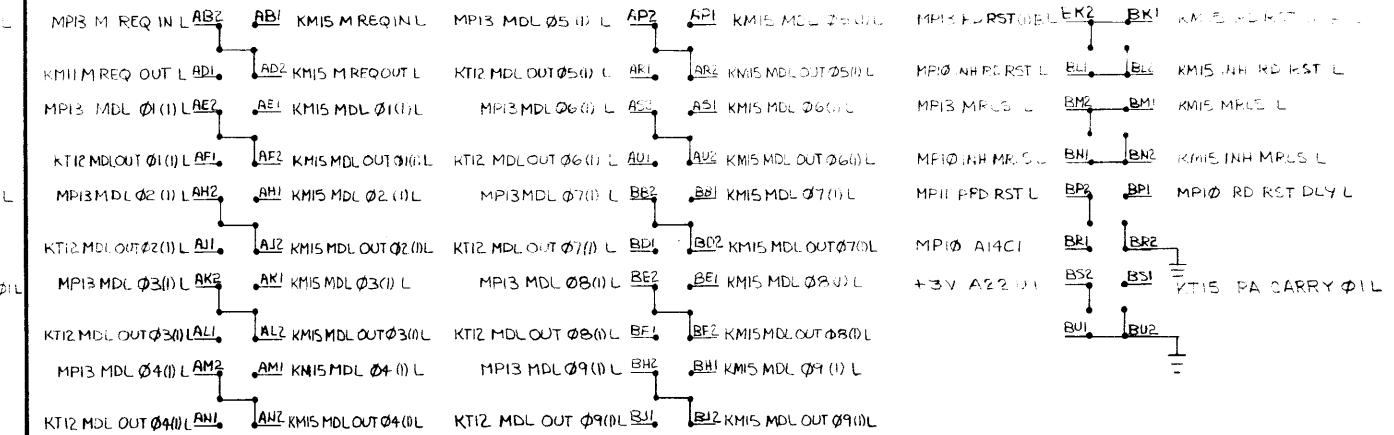
DRN:	DATE:	digital EQUIPMENT CORPORATION
CHK'D:	DATE:	Waltham Massachusetts
ENG:	DATE:	
PROJ. ENG:	DATE:	
PROD:	DATE:	
FIRST USED ON:		
KIT #:	SIZE CODE:	NUMBER:
SCALE:	C-00	REV.:
SHEET:	OF:	DIST.:

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CONFIGURATION: KM15
G728 A-BØ6



CONFIGURATION: MP15
G728 A-BØ6



D

C

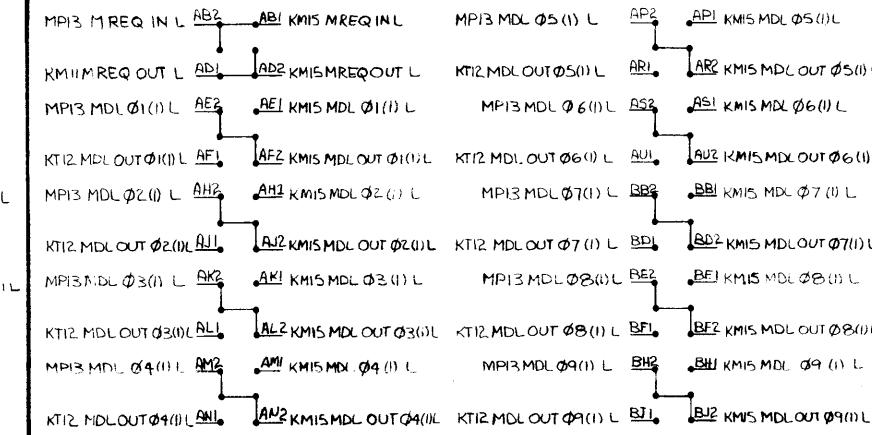
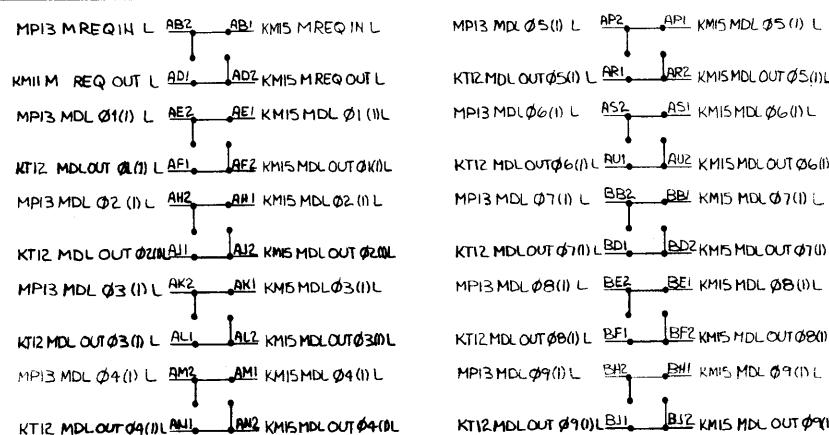
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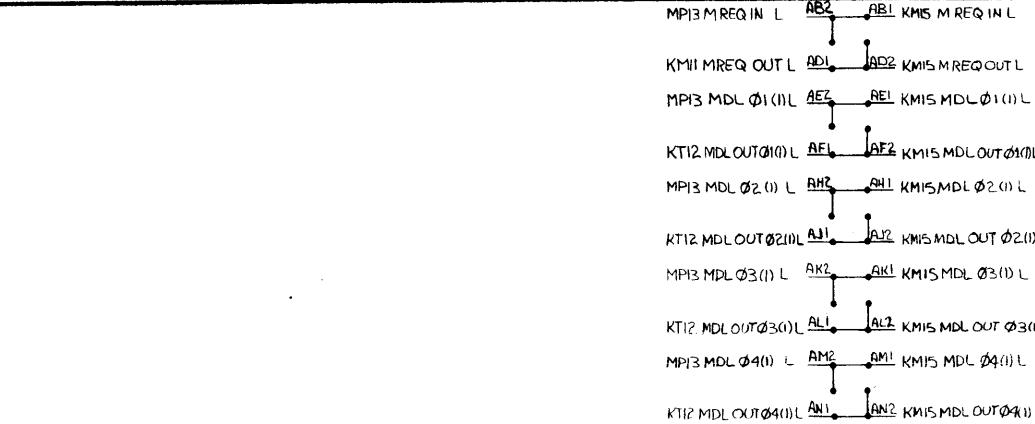
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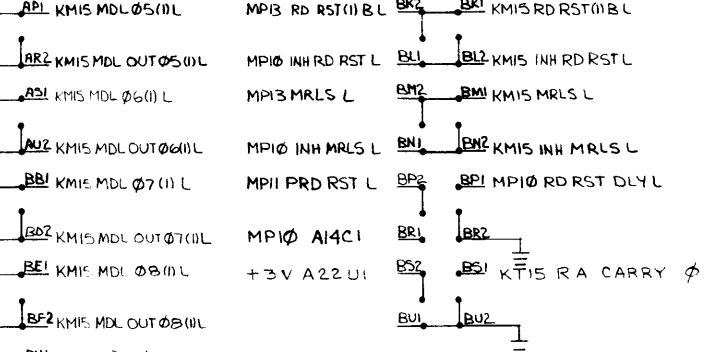
CONFIGURATION: KT15
G728 A-BØ6



CONFIGURATION: KM15 & MP15
G728 A-BØ6



CONFIGURATION: KT15 & MP15
G728 A-BØ6



A

REVISIONS	CHANGE NO.	REV
CHK	BB15-00004	A
F/V	BB15-00012	B
T. Quillen	4-17-73	C
E.L.SBREE	2-12-73	D
J. ELSBREE	4-17-73	E
J. ELSBREE	4-23-73	F

FIRST USED ON OPTION / MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DRW	1	DATE	1/1/73	
UNLESS OTHERWISE SPECIFIED	CHKD	1	DATE	1/1/73	
DIMENSION IN INCHES					
DECIMALS FRACTIONS ANGLES					
= .005 = 1/64 = 0°30'					
FINAL SURFACE QUALITY					
REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL					
NEXT HIGHER ASY					
A-ML-BB15-Ø					
FINISH	SCALE	+	SHEET	1	OF 1
			DIST		

digital EQUIPMENT CORPORATION
WALTHAM MASSACHUSETTS

BB15 JUMPER CARD
CONFIGURATION

NUMBER KM15-0-15

REV C

1

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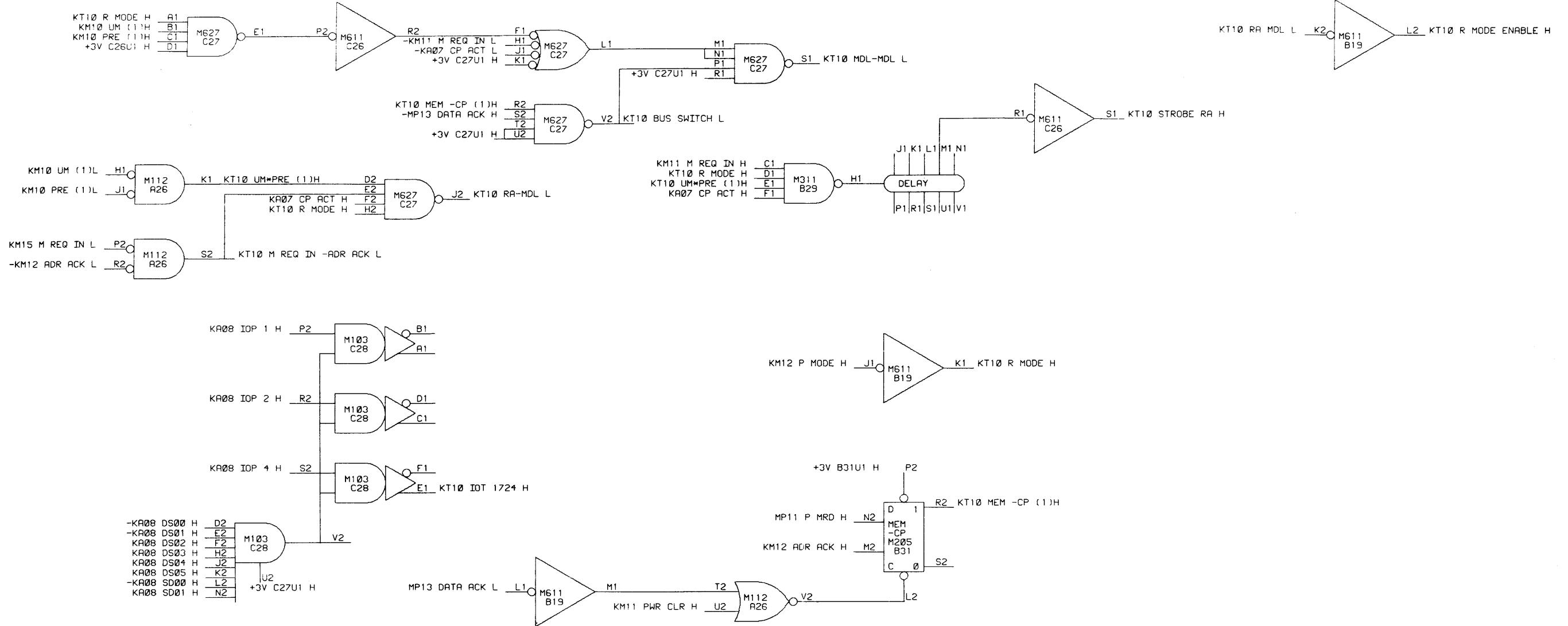
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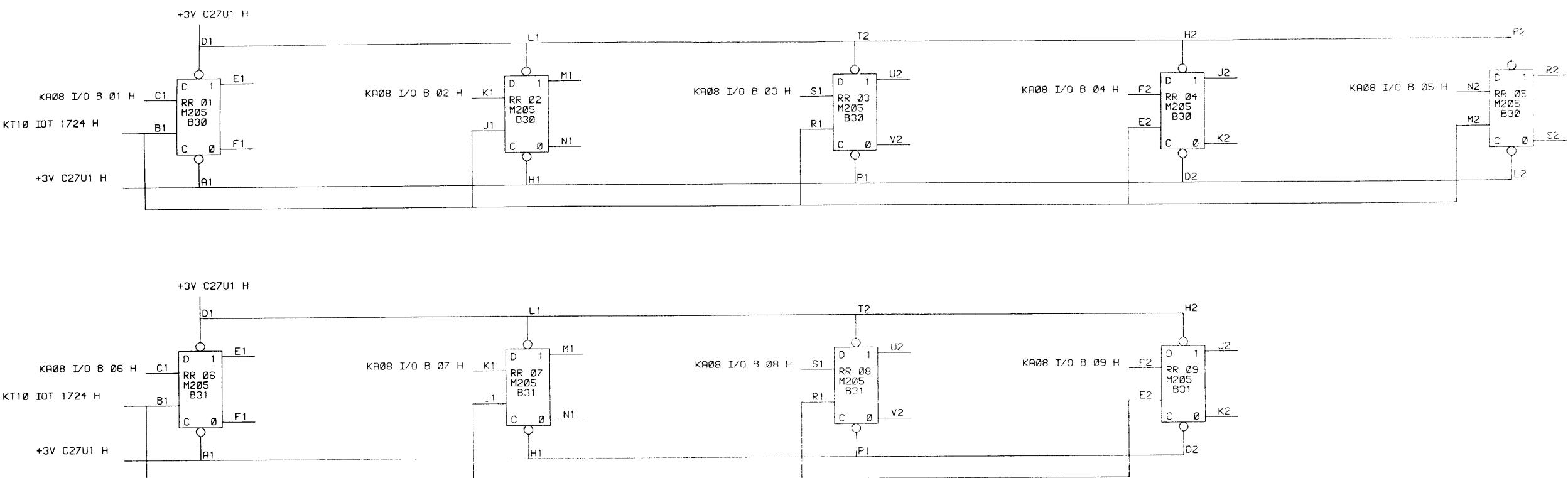


REVISIONS		
CHK	CHANGE NO.	REV.

DRW: Washington	DATE: 3-23-70	
CHND: Magenau	DATE: 3-23-70	
ENG: Chabree	DATE: 3-23-70	
PROF. ENG: G. Clemann	DATE: 3-23-70	
PROD: J. Col	DATE: 3-23-70	
FIRST USED ON: KT15	SHEET 1 OF 1	
SIZE: D	CODE: BS	NUMBER: KT15-0-10
SCALE:	REV.:	
DIST:		

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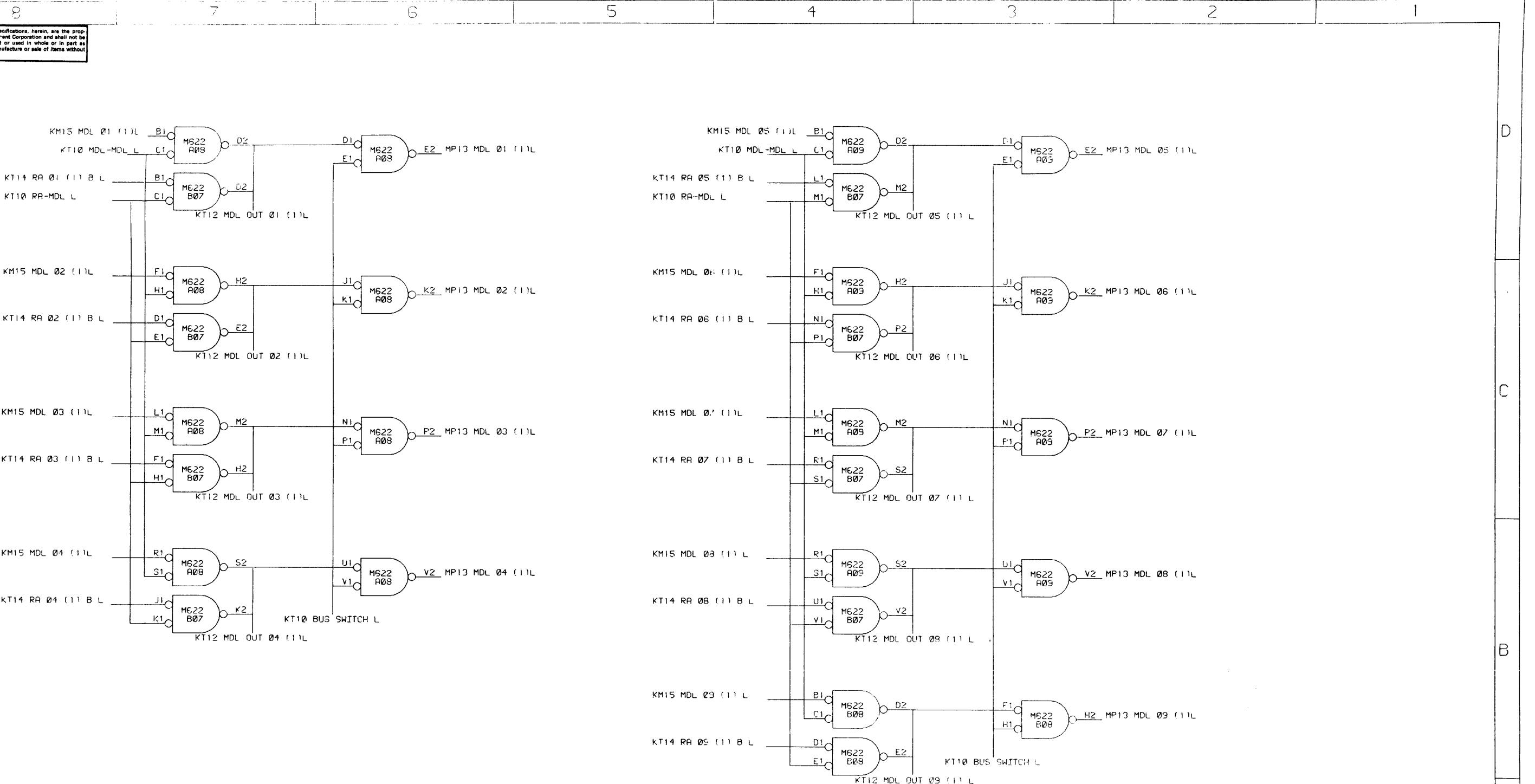
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REVISIONS		
CHK	CHANGE NO.	REV.

DRW: <i>Washington</i>	DATE: <i>1-23-70</i>	EQUIPMENT CORPORATION
CHKD: <i>V. Beaumont</i>	DATE: <i>1-23-70</i>	digital
ENG: <i>J. Elecree</i>	DATE: <i>1/25/70</i>	MAYNARD, MASSACHUSETTS
PROD-ENG: <i>J. G. Claman</i>	DATE: <i>3/3/70</i>	TITLE: <i>RELOCATION REGISTER</i>
PROD: <i>J. G. Claman</i>	DATE: <i>3/2/70</i>	
FIRST USED ON:	KT15	SIZE: <i>CODE: 0185</i>
SCALE:	KT15-0-11	NUMBER: <i>REV. 00</i>
SHEET 1 OF 1	DIST:	

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN. <i>U. Washington</i>	DATE 3-23-70
CHK'D. <i>Chapman</i>	DATE 3-23-70
ENG. <i>Lebre</i>	DATE 3-23-70
PROD. <i>H. G. Schumann</i>	DATE 3/15/70
FIRST USED ON KT15	DATE 3/15/70
SHEET 1 OF 1	NUMBER KT15-0-12
SCALE D BS	REV. <i>1</i>
DIST.	

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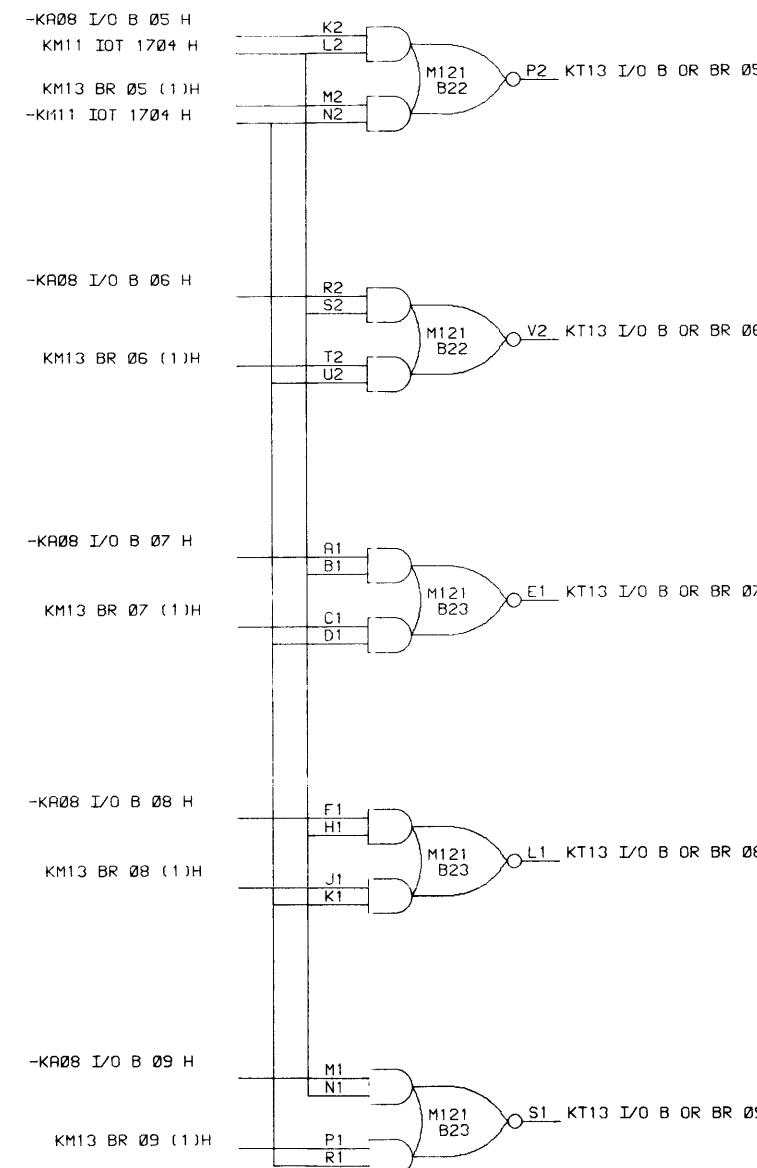
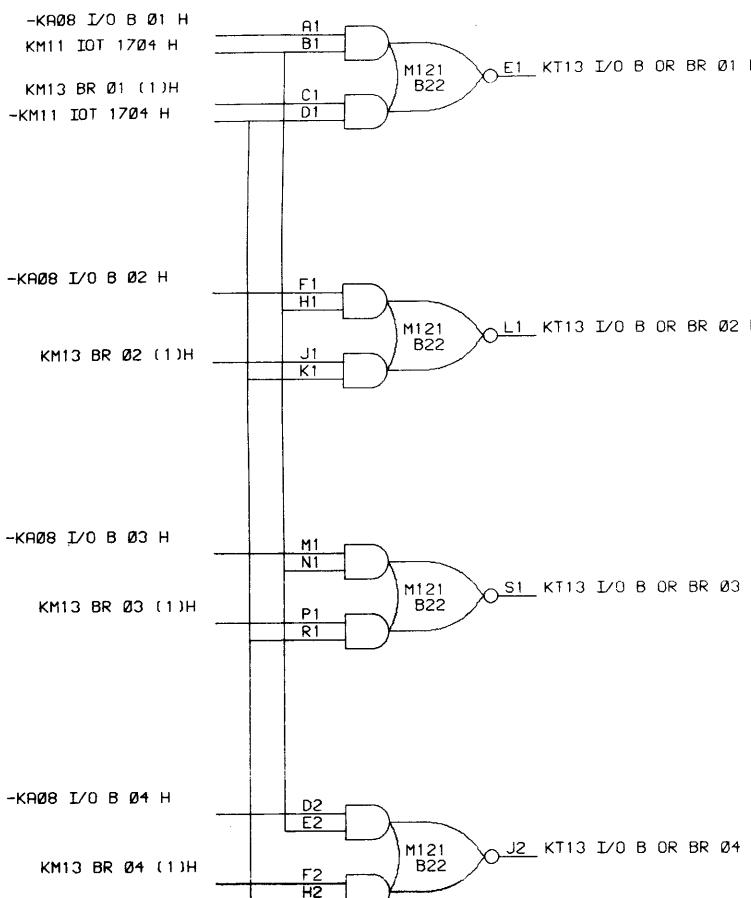
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REVISIONS		
CHK	CHANGE NO.	REV.

DR. <i>R. Westerman</i>	DATE 3/3/70
CHKD. <i>J. Blagden</i>	DATE 3/23/70
ENG. <i>J. Schleser</i>	DATE 3/25/70
PROJ. ENG. <i>J. C. Lummus</i>	DATE 3/25/70
PROD. <i>J. Schleser</i>	DATE 3/25/70
FIRST USED ON KT15	NUMBER KT15-0-13
SCALE 0 BS	REV. 00
SHEET 1 OF 1	DIST

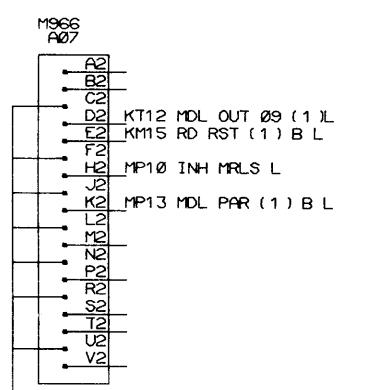
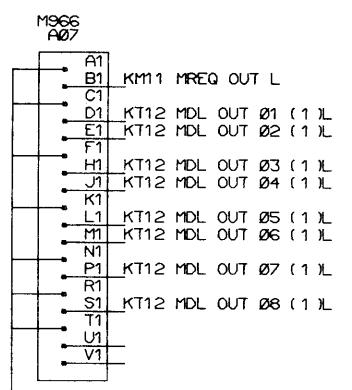
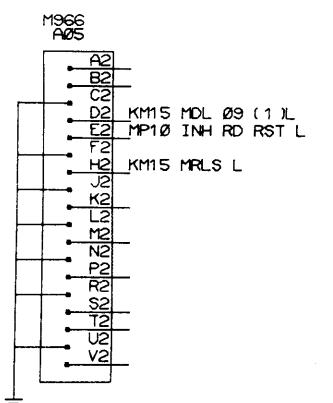
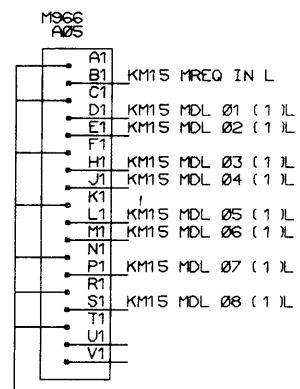
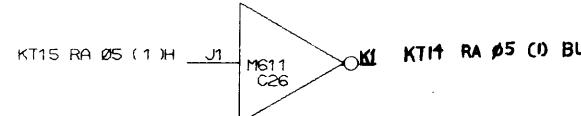
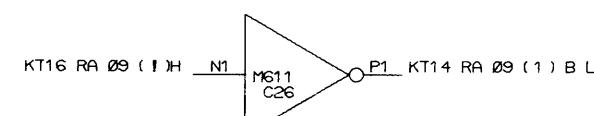
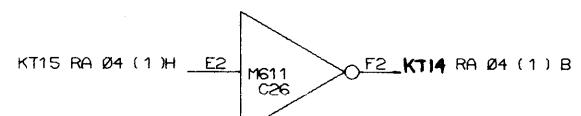
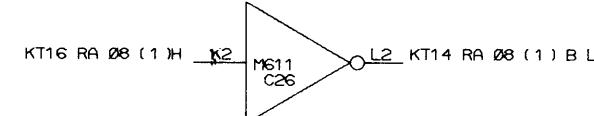
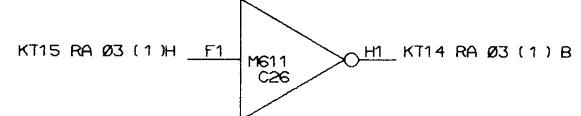
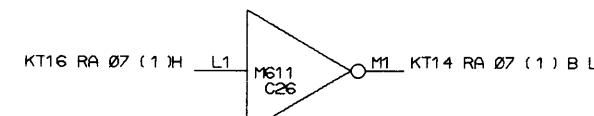
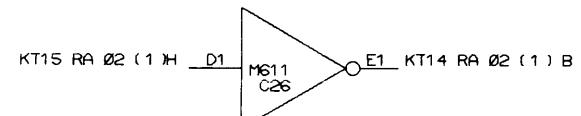
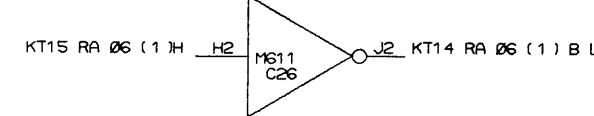
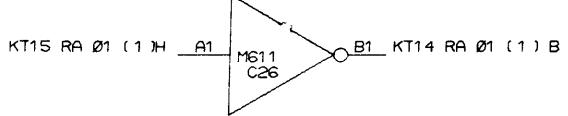
digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE I/O BUS OR BR

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REVISIONS		
CHK	CHANGE NO.	REV.
GH	BB15-00014	A
	S.GOLDSBY 4-10-71	
	J.ELSBRE 4-10-71	
	BB15-00016	B

MRN.	DATE	EQUIPMENT			
A WASHINGTON	3/23/70	CORPORATION			
CHK'D.	DATE	MAYNARD, MASSACHUSETTS			
P DAIGNEAULT	3/23/70				
ENG.	DATE	TITLE			
J ELSBREE	3/25/70	RA BUFFERS AND MDL TERMINATORS			
PROJ. ENG.	DATE				
F AUMANN	3/25/70				
PROD.	DATE				
F LASKEY	3/27/70				
FIRST USED ON					
KT15		SIZE	CODE	NUMBER	REV.
SCALE		D	BS	KT15-0-14	B
SHEET	1	DIST.			
	OF	1			

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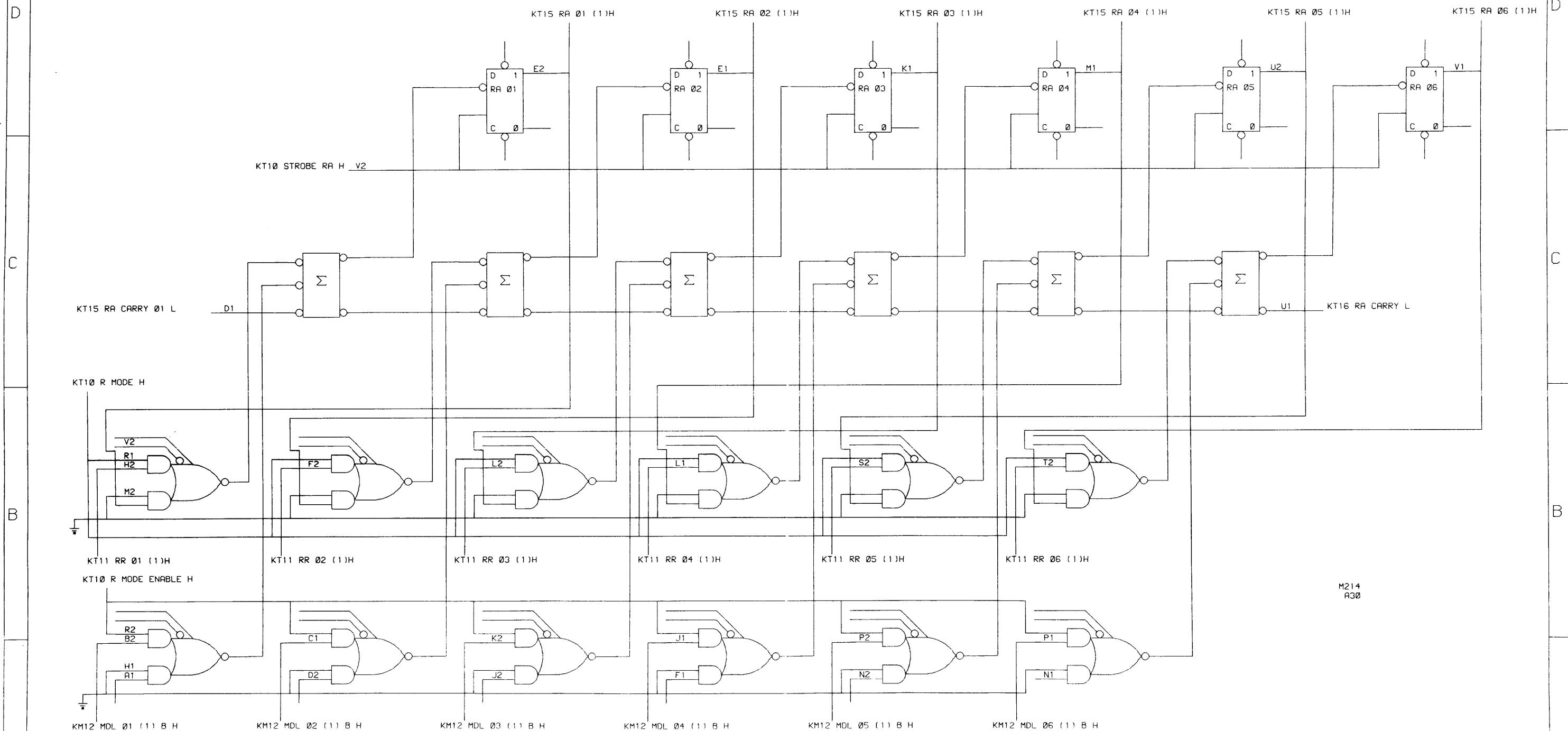
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REVISIONS		
CHK	CHANGE NO.	REV.

DRW:	DATE	3-23-70		
CHK R:	DATE	3-23-70		
J. G. Saulty	DATE	3-25-70		
ENG:	DATE	3-25-70		
PROJ. ENG:	DATE	3-25-70		
PROD:	DATE	3-25-70		
FIRST USED ON	DATE	3-25-70		
KT15	SIZE	CODE	NUMBER	REV.
SCALE	D	BS	KT15-0-15	
SHEET 1 OF 1	DIST.			

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: RELOCATION ADDR REG 1-6

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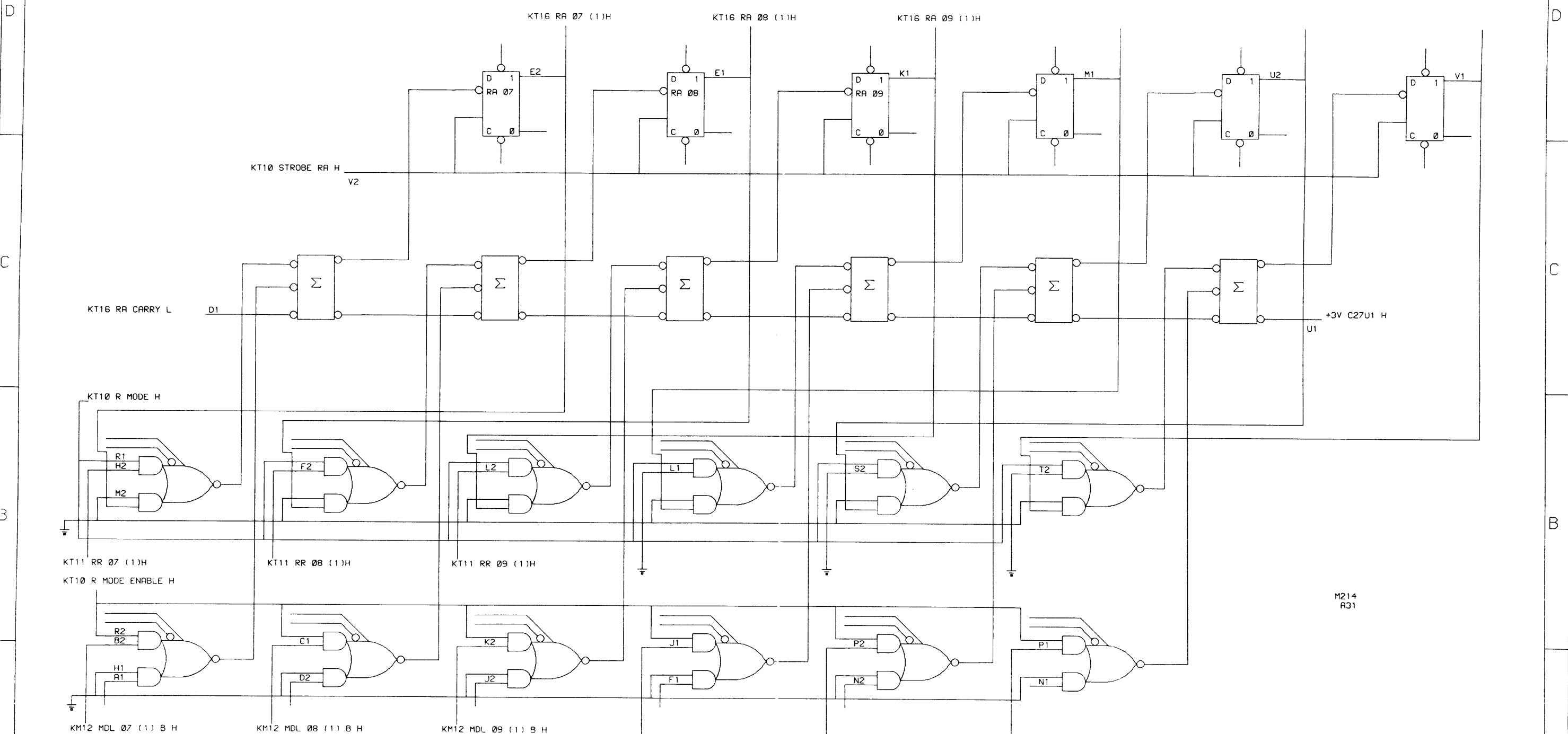
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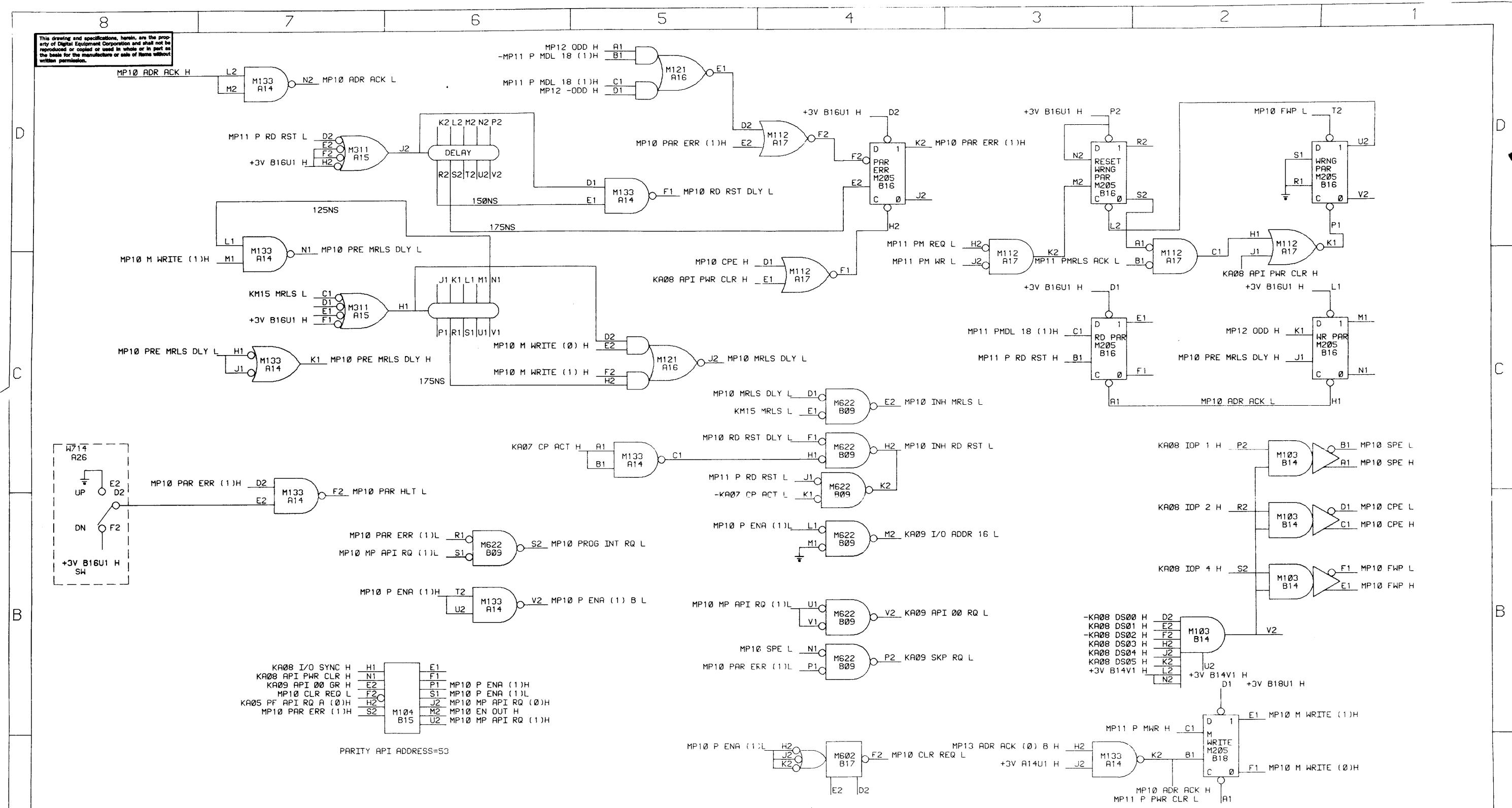
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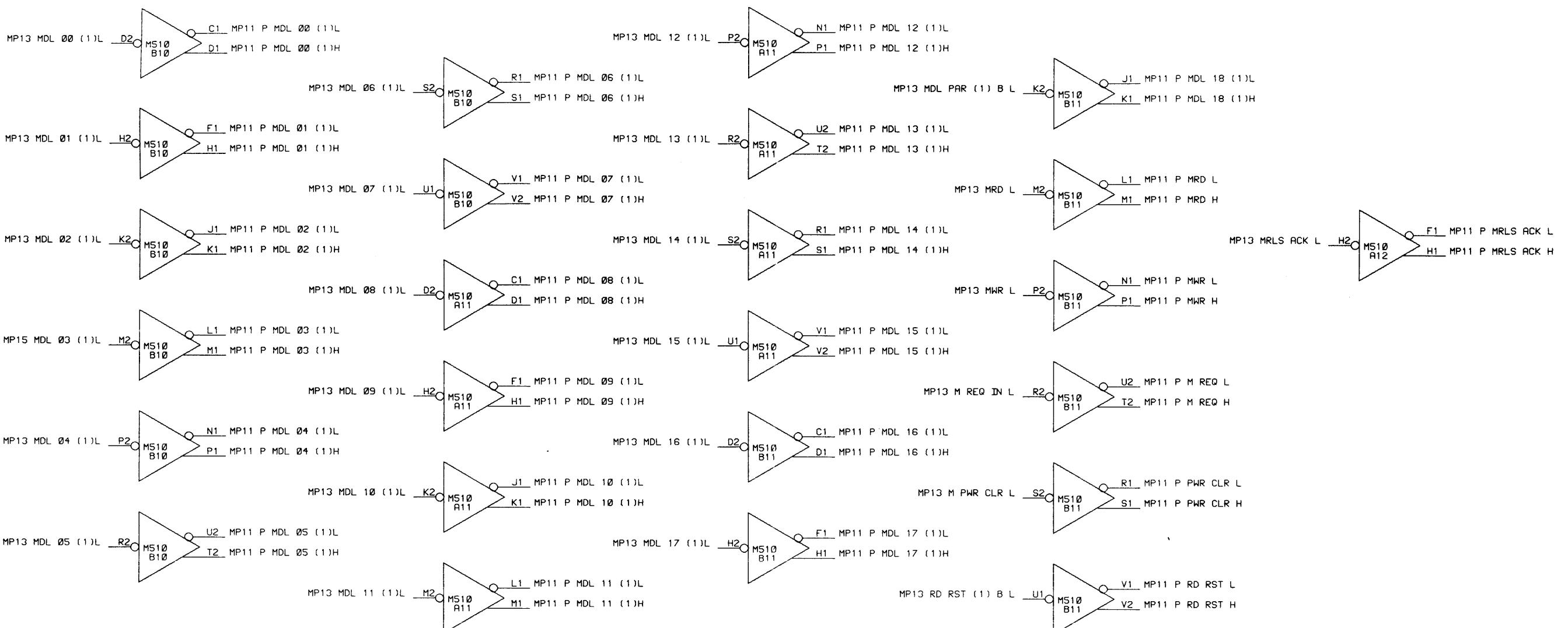
REVISIONS		
CHK	CHANGE NO.	REV.

DATE 3-23-70	DATE 3-23-70	digital EQUIPMENT CORPORATION	
CHK'D. J. Nagel	DATE 3-23-70	MAYNARD, MASSACHUSETTS	
ENG. J. G. Schaeffer	DATE 3-25-70	TITLE RELOCATION ADDR REG 7-9	
PROD ENG. J. G. Schaeffer	DATE 3-25-70		
PROD. J. G. Schaeffer	DATE 3-25-70		
FIRST USED ON KT15	SIZE D SCALE SHEET 1 OF 1	CODE DBS NUMBER KT15-0-16	
	REV. <td></td>		DIST.



DRN. D. SOUTHER	DATE 3/26/70	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. L. LAIGNEAULT	DATE 3/26/70			
ENG. J. ELSBREE	DATE 3/27/70	TITLE PARITY CONTROL		
PROJ. ENG. F. AUMANN	DATE 3/27/70			
PROD. F. LASKEY	DATE 3/27/70			
FIRST USED ON MP15		SIZE	CODE	NUMBER
SCALE		D	BS	MP15-0-10
SHEET 1	OF 1	DIST.		A

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D

D

C

C

B

B

A

A

REVISIONS		
CHK	CHANGE NO.	REV.
JAI	KA15-00003	A
	KA15-00003	B
	KA15-00003	C
	KA15-00003	D
	KA15-00003	E
	KA15-00003	F
	KA15-00003	G
	KA15-00003	H
	KA15-00003	I
	KA15-00003	J
	KA15-00003	K
	KA15-00003	L
	KA15-00003	M
	KA15-00003	N
	KA15-00003	O
	KA15-00003	P
	KA15-00003	Q
	KA15-00003	R
	KA15-00003	S
	KA15-00003	T
	KA15-00003	U
	KA15-00003	V
	KA15-00003	W
	KA15-00003	X
	KA15-00003	Y
	KA15-00003	Z

DRN.	D. SOUTHER	DATE	3/23/70	digital	EQUIPMENT CORPORATION
CHK'D.		DATE			MAYNARD, MASSACHUSETTS
E. DAIGNEAULT		DATE	3/23/70		TITLE
ENG.	E. L. BREE	DATE	3/25/70		PARITY INPUT INTERFACE
PROJ. ENG.	E. AUMANN	DATE	3/25/70		
PROD.	E. LASKEY	DATE	3/27/70		
FIRST USED ON	MP15				
SCALE	D 8S	NUMBER	MP15-0-11	REV.	A
SHEET	1	OF	1	DIST.	

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MP11 P MDL 00 (1)H

MP11 P MDL 01 (1)H

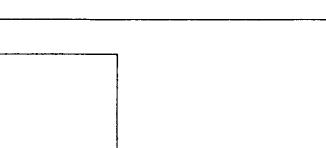
MP11 P MDL 02 (1)H

MP11 P MDL 03 (1)H

E1 F1 H1 J1

1 2 4 8
M182
A131 2 4 8
K1
L1

A1 B1 C1 D1

MP11 P MDL 00 (1)L
MP11 P MDL 01 (1)LMP11 P MDL 05 (1)H
MP11 P MDL 04 (1)H

P2 R2 S2 T2

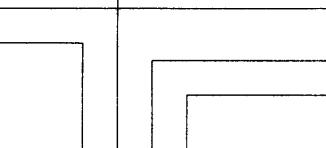
U2

V2

1 2 4 8
M182
A131 2 4 8
K2 L2 M2 N2

MP11 P MDL 04 (1)L

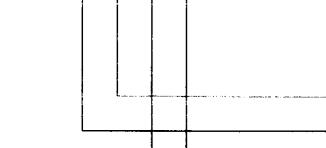
MP11 P MDL 05 (1)L

MP11 P MDL 09 (1)H
MP11 P MDL 08 (1)H

E1 F1 H1 J1

1 2 4 8
M182
B131 2 4 8
K1
L1

A1 B1 C1 D1

MP11 P MDL 08 (1)L
MP11 P MDL 09 (1)LMP11 P MDL 13 (1)H
MP11 P MDL 12 (1)H

P2 R2 S2 T2

U2

V2

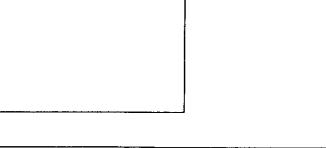
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M182
B121 2 4 8
K2 L2 M2 N2

MP11 P MDL 15 (1)L

MP11 P MDL 14 (1)L

MP11 P MDL 13 (1)L

MP11 P MDL 12 (1)L



MP11 PMDL 16 (1)H

MP11 PMDL 16 (1)L

MP10 WRNG PAR (1)H

MP11 P MDL 18 (1)L

MP10 WRNG PAR (0)H

MP11 P MDL 18 (1)L

MP12 MDL PAR (1) B L

MP12 MDL PAR (1) B L

M622 B09

D2

C1

B1

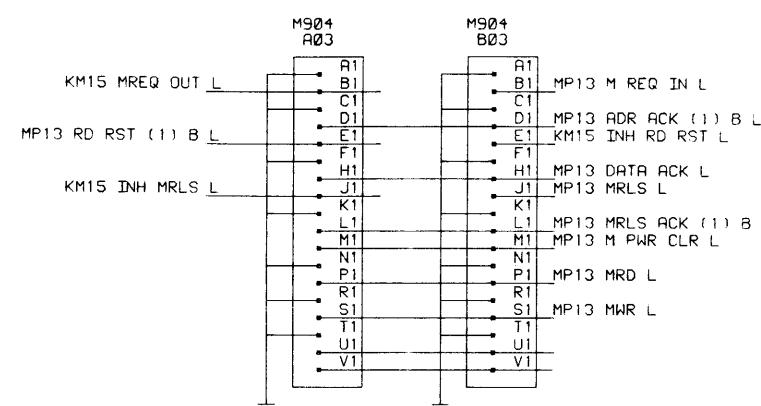
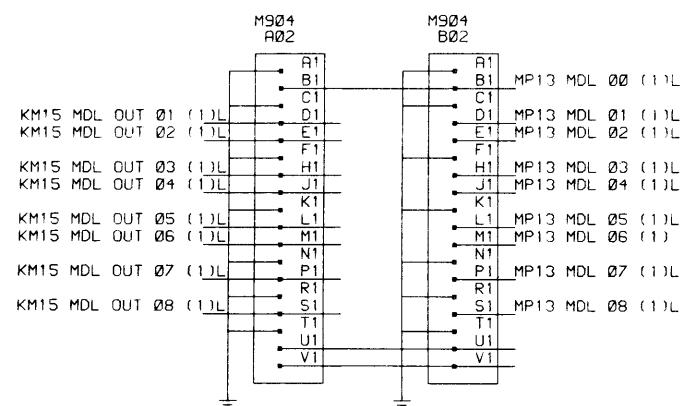
REVISIONS		
CHK	CHANGE NO.	REV.

DRN.	DATE
CHKD.	DATE
ENG.	DATE
PROD.	DATE
FIRST USED ON	DATE
MP15	SHEET 1 OF 1
SCALE	D BS
NUMBER	MP15-0-12
REV.	
DIST.	

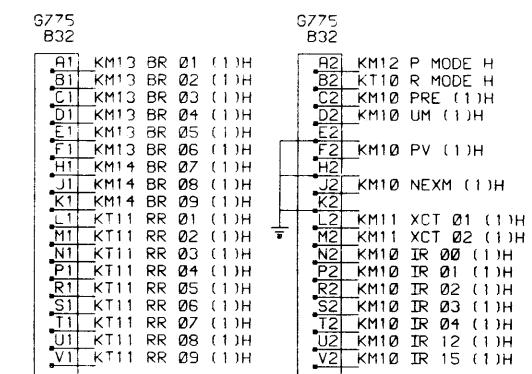
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: PARITY DECODER & PARITY GEN

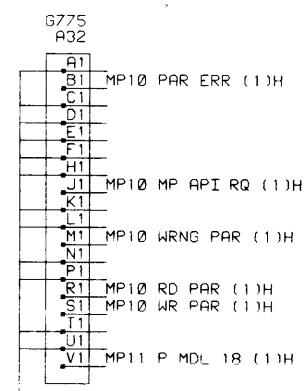
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MEMORY PROTECT IND CABLE



MEMORY PARITY IND CABLE



REVISIONS		
CHK.	CHANGE NO.	REV.
BB15-00012	A	
BB15-00019	F	

DRN.	DATE	digital	EQUIPMENT CORPORATION
CHK'D	DATE		MAYNARD, MASSACHUSETTS
D. SOUTHER	03/23/70		
D. HIGNEAULT	03/23/70		
J. ELSBREE	03/25/70	PARITY-MEM BUS CONNECTIONS	
F. ALTMANN	03/25/70		
PROD.	03/27/70		
R. ASKEY	03/27/70		
FIRST USED ON			
MP15		SIZE	CODE
SCALE		C	IC
SHEET 1 OF 1		NUMBER	REV.
DIST.		MP15-0-13	B

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NUMBER

1

D

1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
G829	M912	M912	M912	M912	M622	M622	M510	M149	M149	M117	M802	M802	M111	M104	M103	M103	A607	A607	M717	M776	
USAGE	BA	2I	BA	2I	BA	2I	BA	2I	BA	2I	BA	2I	BA	2I	BA	2I	VP	2I	VP	2I	
+5V P E G U L A T O R	I/O BUS B8	I/O BUS B9	I/O SYNC IOP 1,2,4	DS08 PQ	I/O BUS B8	I/O SYNC IOP 1,2,4	I/O BUS B9	PROG INT PQ	API 2 EN	RD STATUS	BA BIT B2	BA BIT B7	BA BIT B1	BA BIT B4	TT 00	TT 01	IOT	DIGITAL TO ANALOG CONVERTEP	DIGITAL DISPLAY CONTROL	REACER CONTROL	
	THRU	THRU	THRU	THPU	THPU	THRU	THRU	THPU	API 3 EN OUT	API 3 EN	BA BIT B4	BA BIT B1	BA BIT B13	I/O ADDR 12-14	TT 02	TT 04	05X1	07X1			
	RD RG	RD RG	RD STATUS	PWR CLR	I/O BUS B8	I/O BUS B7	I/O BUS B9	DS05 PWR CLR	DS05 SD08 SD01	RD PQ	IO BUS B8	BA BIT B8	BA BIT B12	BA BIT B15	TT 03	TT 06	05X2	07X2			
	I/O BUS B8	I/O BUS B7	PWR CLR	DS05 SD08 SD01	I/O BUS B8	I/O BUS B7	I/O BUS B9	PWR CLR	DS05 SD08 SD01	RD PQ	IO BUS B8	BA BIT B16	BA BIT B13	BA BIT B17	TT 05	TT 07	05X4	07X4			
											SKIP PQ	PROG INT RQ	SKIP PQ	PROG INT RQ	TT 07	I/O AD 12-14	CONTROL API LEVEL				
															I/O A13	PROG INT PQ	2				
															13	RD RG					
															15	SKIP PQ					

C

0

1

NUM

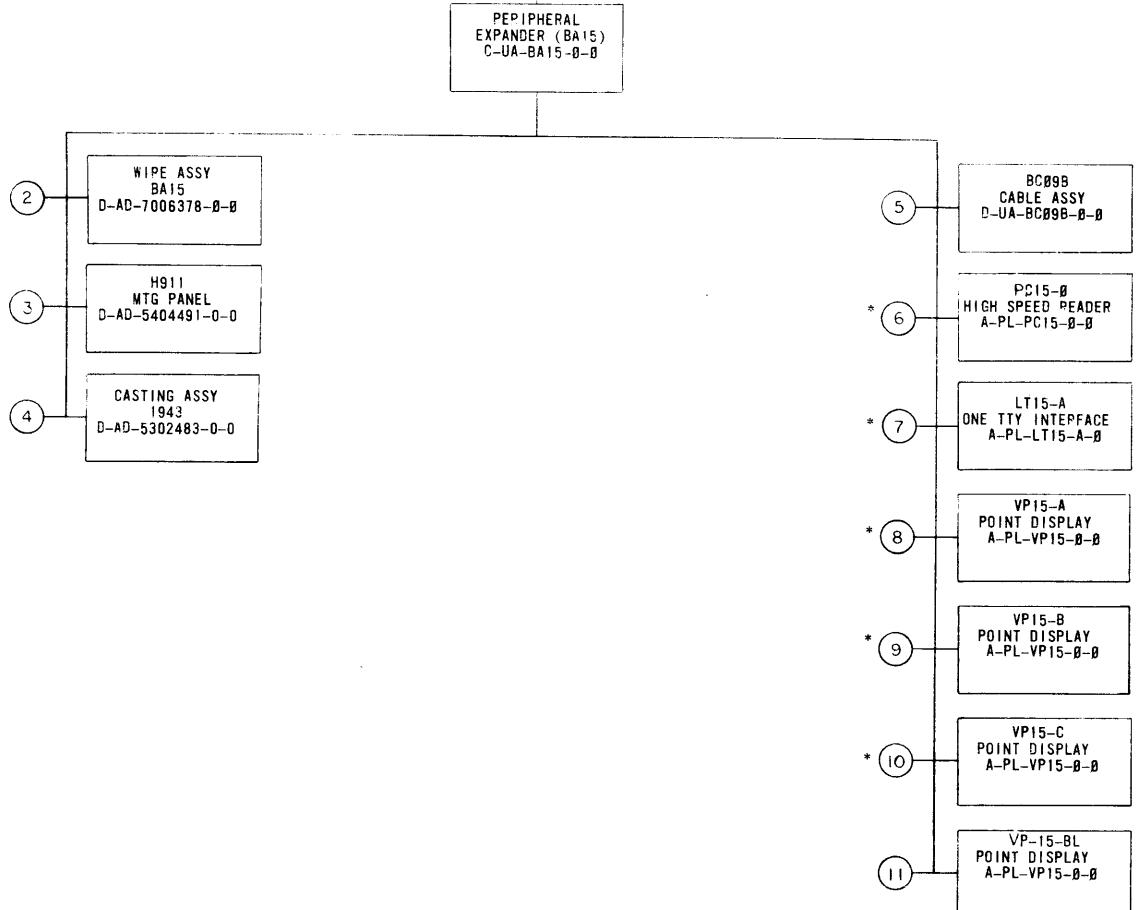
A

1

FIRST USED ON OPTION/MODEL BA15	DO NOT SCALE DRAWING	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	CHNK D.	DATE		
DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm .164$ $\pm 0^{\circ}30'$				ENG.	DATE
FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS				PROJ. ENG.	DATE
				PROD.	DATE
MATERIAL - - - - -				NEXT HIGHER ASSY	
FINISH - - - - -				SCALE - - - - -	NUMBER BA15-0-07
				SHEET OF	REV. F
				DIST.	

MODULE UTILIZATION

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

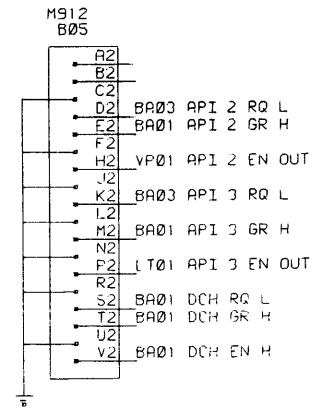
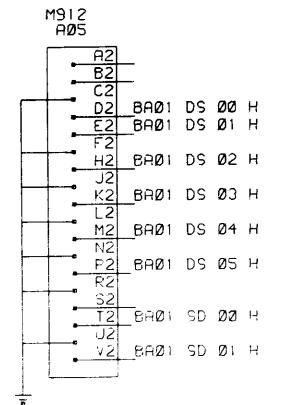
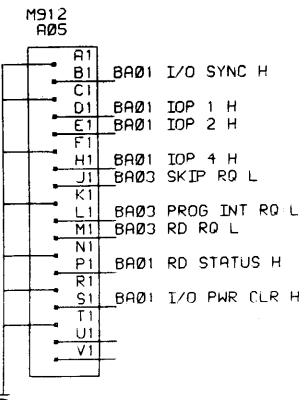
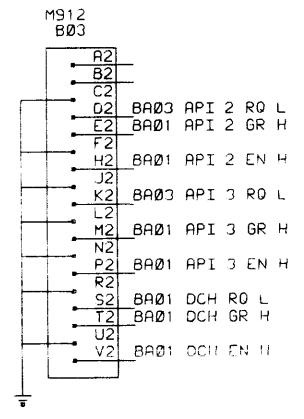
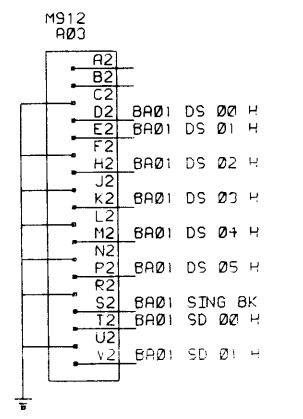
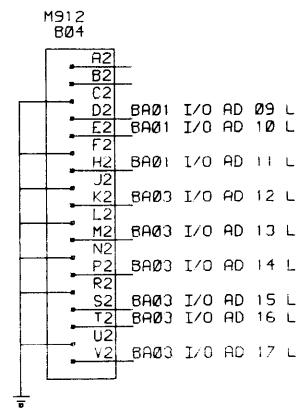
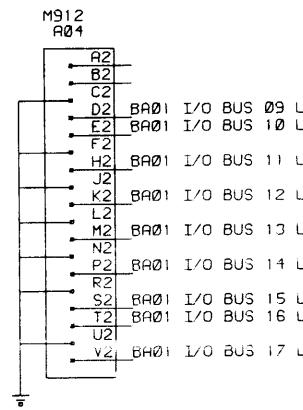
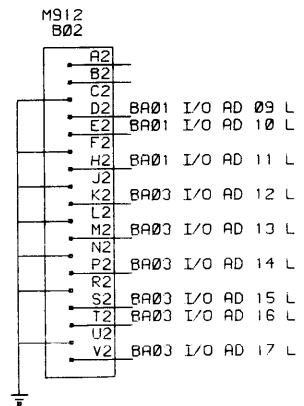
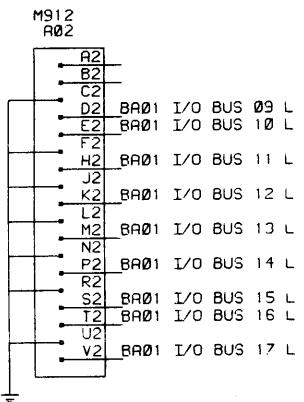
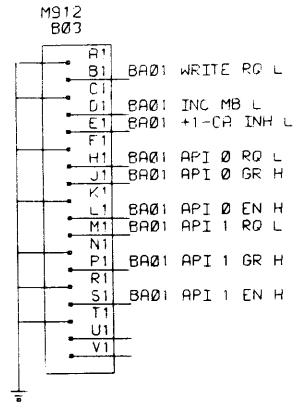
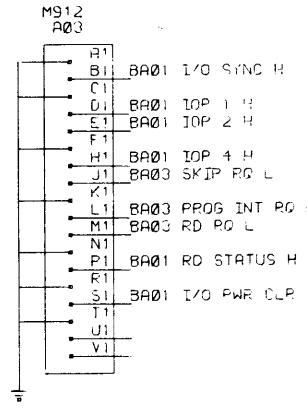
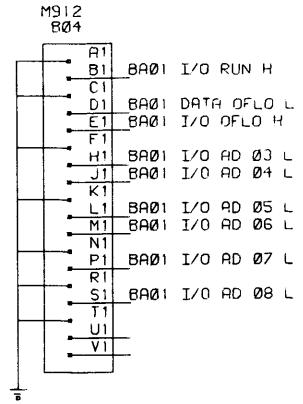
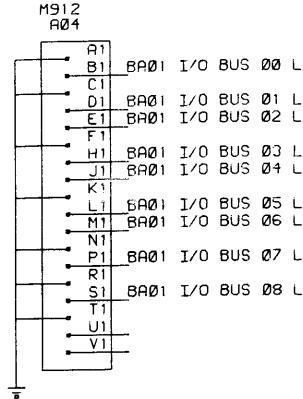
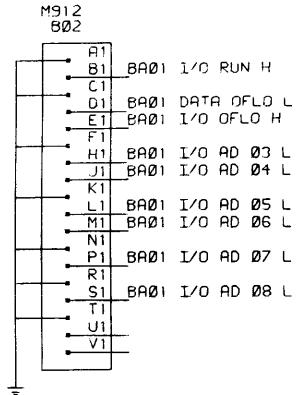
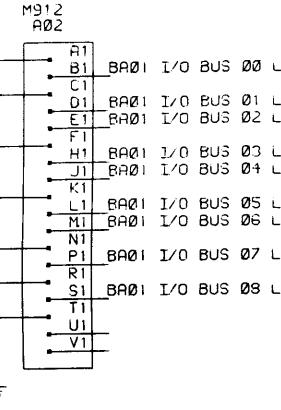


* DENOTES OPTIONAL ITEMS

REVISIONS			
CHK	CHANGE NO.	REV	
	BA15-00010	A	
REDRAWN & REVISED			
<i>Jan 25</i> 7-3-10			
AUMANN			
<i>Jan 25</i> 7-3-10			
AUMANN			
BA15-00021 B			
<i>Jan 25</i> 7-17-77			
AUMANN			
<i>Jan 25</i> 7-27-77			

ITEM NO.	PART NO.	DESCRIPTION	QTY.	PARTS LIST	
IRST USED ON OPTION / MODEL BA15				DO NOT SCALE DRAWING	
				UNLESS OTHERWISE SPECIFIED	
				DIMENSION IN INCHES	
				TOLERANCES	
				DECIMALS FRACTIONS ANGLES = .005 = .0064 = 0°30'	
				FINAL SURFACE QUALITY	
				REMOVE BURRS AND BREAK SHARP CORNERS	
				MATERIAL	
				FINISH	
				SCALE	
				SHEET 1 OF 1	
DRN. E.THELEEN		DATE 7-15-61		EQUIPMENT CORPORATION	
CHK'D. COOK		DATE 8-13-61		MAYNARD, MASSACHUSETTS	
ENG. AJUMANN		DATE 7-2-61		TITLE	
PROJ. ENG. AJUMANN		DATE 7-5-61		DRAWING INDEX	
PROD. ZACKER		DATE 7-2-61		LIST BA15	
NEXT HIGHER ASSY C-U-A-BA15-0-0				SIZE CODE D DI	
				NUMBER BA15-0-8	
				REV. F	
				DIST.	

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NOTE: PINS A1, C1, F1, K1, N1, AND R1 ARE GROUNDED

NOTE: PINS F2, J2, L2, N2, P2, AND U2 ARE BUSSSED TO GROUND

REVISIONS		
CHK	CHANGE NO.	REV.
NR	BA15-00001	A
K	COTE 2/17/70	
E	RUMANN 2/20/70	
	BA15-00008	B

DRN	DATE	digital	EQUIPMENT CORPORATION
CHKD	DATE		MAYNARD MASSACHUSETTS
ENG	DATE		TITLE
N RHEAULT	11/12/69		
E NEWMYER	12/3/69		1/O BUS INTERFACE
F RUMANN	12/3/69		
P LASKEY	12/6/69		
FIRST USED ON			
BA15	SIZE	CODE	NUMBER
SCALE	D	I	BA15-0-01
SHEET	1	OF	1
			REV. B
			DIST.

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7

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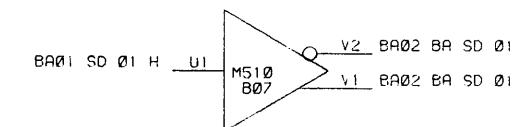
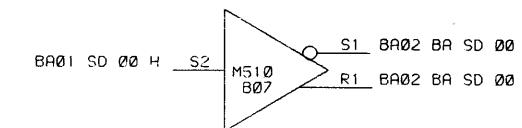
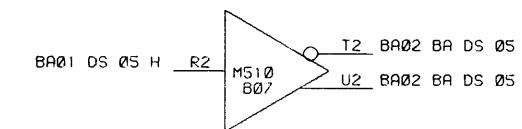
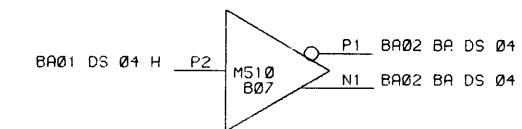
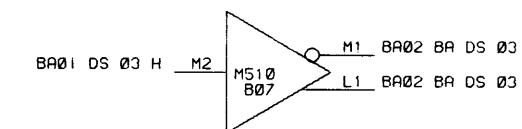
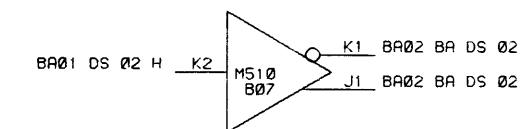
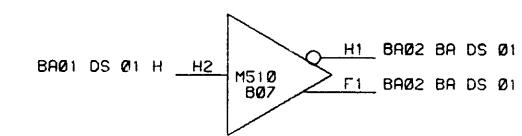
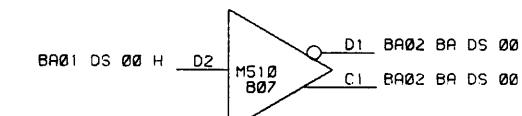
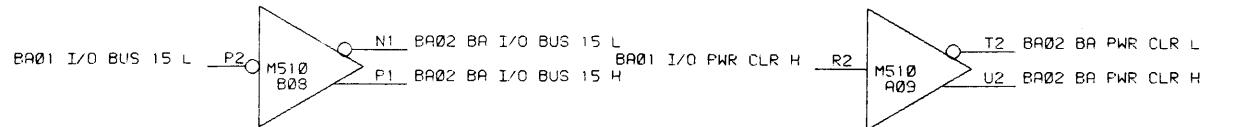
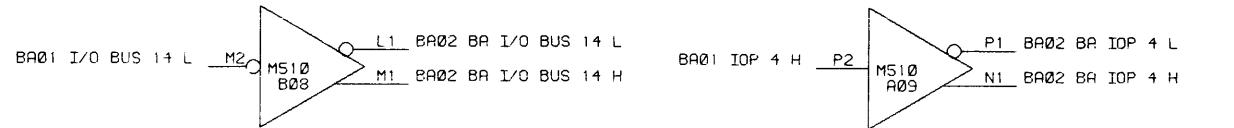
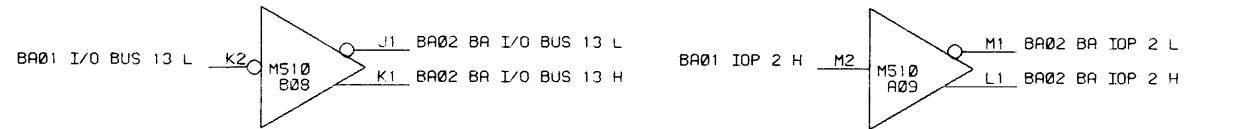
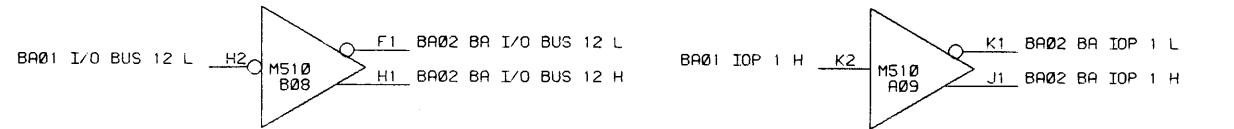
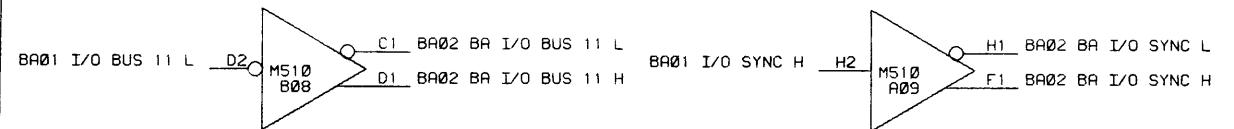
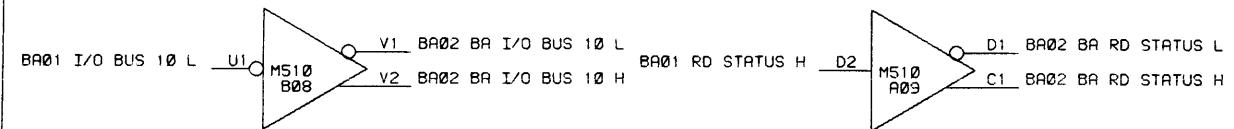
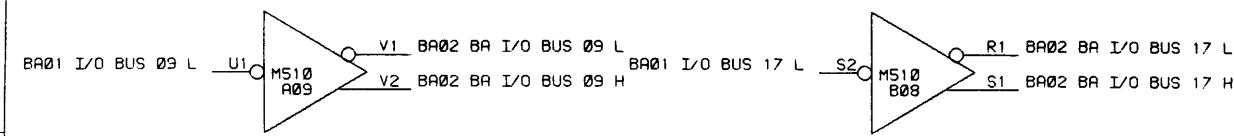
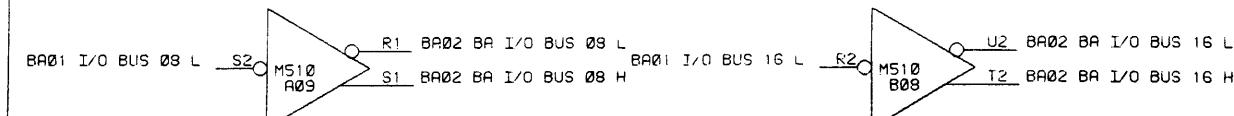
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1

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REVISIONS		
CHK	CHANGE NO.	REV.
PD	BA15-00005	A
K. COTE		
F. AUMANN		
Y.	BA15-00008	B

DRN. M. SCHURMAN	DATE 1/12/69	digital	EQUIPMENT CORPORATION
CHK'D. V. RHEAULT	DATE 1/12/69	MAHARD, MASSACHUSETTS	
ENG. E. NEWMAYER	DATE 12/3/68	TITLE BA15 LINE RECEIVERS	
PROJ. ENG. F. AUMANN	DATE 12/3/68		
PROD. F. LASKEY	DATE 12/6/68		
FIRST USED ON BA15	SIZE D SCALE	CODE BS	NUMBER BA15-0-02
SHEET 1 OF 1	DIST.	REV. B	

8 7 6 5 4 3 2 1

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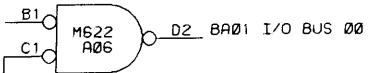
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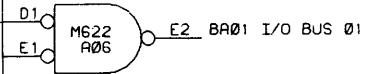
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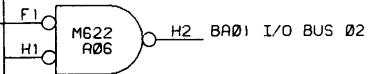
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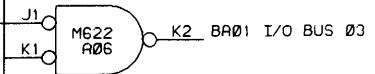
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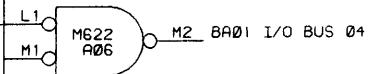
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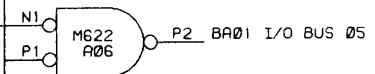
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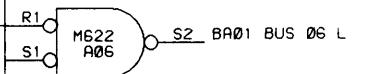
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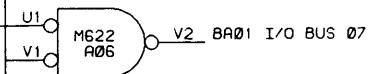
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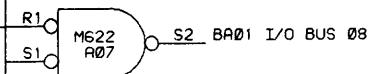
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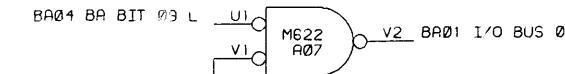
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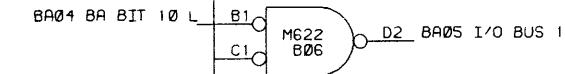
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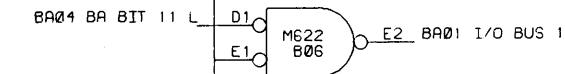
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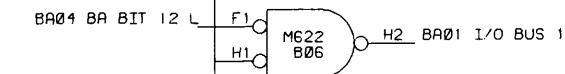
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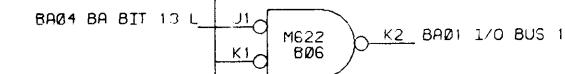
BA04 BA BIT 11 L



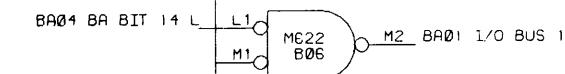
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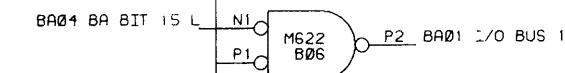
BA04 BA BIT 13 L



BA04 BA BIT 14 L



BA04 BA BIT 15 L



BA04 BA BIT 16 L



BA04 BA BIT 17 L



VP01 VP09 SKIP L

BA05 BA SKIP RD L

BA03 RI SKIP L

M1 N1 P1 R1

M117 A12

S1 BA03 SKIP H

U2 M111 A15

V2 N2 F1

H1

M002 A13

E2 H2

BA03 SKIP RG L

PC03 READ IN FIN H

AI B1

M117 B29

C1

BA03 RI SKIP L

BA05 BA PROG INT RQ L

D1 E1

M622 A07

E2

BA03 PROG INT RQ L

LT01 IOT 0102 L

H2

M113 B11

J2

K2

LT01 IOT 4102 L

S2

M111 A15

T2

+5V

M002 A14

U2

P1

M002 A14

V1

M002 A14

W2

M002 A14

X2

M002 A14

Y2

M002 A14

Z2

M002 A14

AA2

BB2

CC2

DD2

EE2

FF2

GG2

HH2

II2

JJ2

KK2

LL2

MM2

NN2

OO2

PP2

QQ2

RR2

SS2

TT2

UU2

VV2

WW2

XX2

YY2

ZZ2

AA2

BB2

CC2

DD2

EE2

FF2

GG2

HH2

II2

JJ2

KK2

LL2

MM2

NN2

OO2

PP2

QQ2

RR2

SS2

TT2

UU2

VV2

WW2

XX2

YY2

ZZ2

AA2

BB2

CC2

DD2

EE2

FF2

GG2

HH2

II2

JJ2

KK2

LL2

MM2

NN2

OO2

PP2

QQ2

RR2

SS2

TT2

UU2

VV2

WW2

XX2

YY2

ZZ2

AA2

BB2

CC2

DD2

EE2

FF2

GG2

HH2

II2

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KK2

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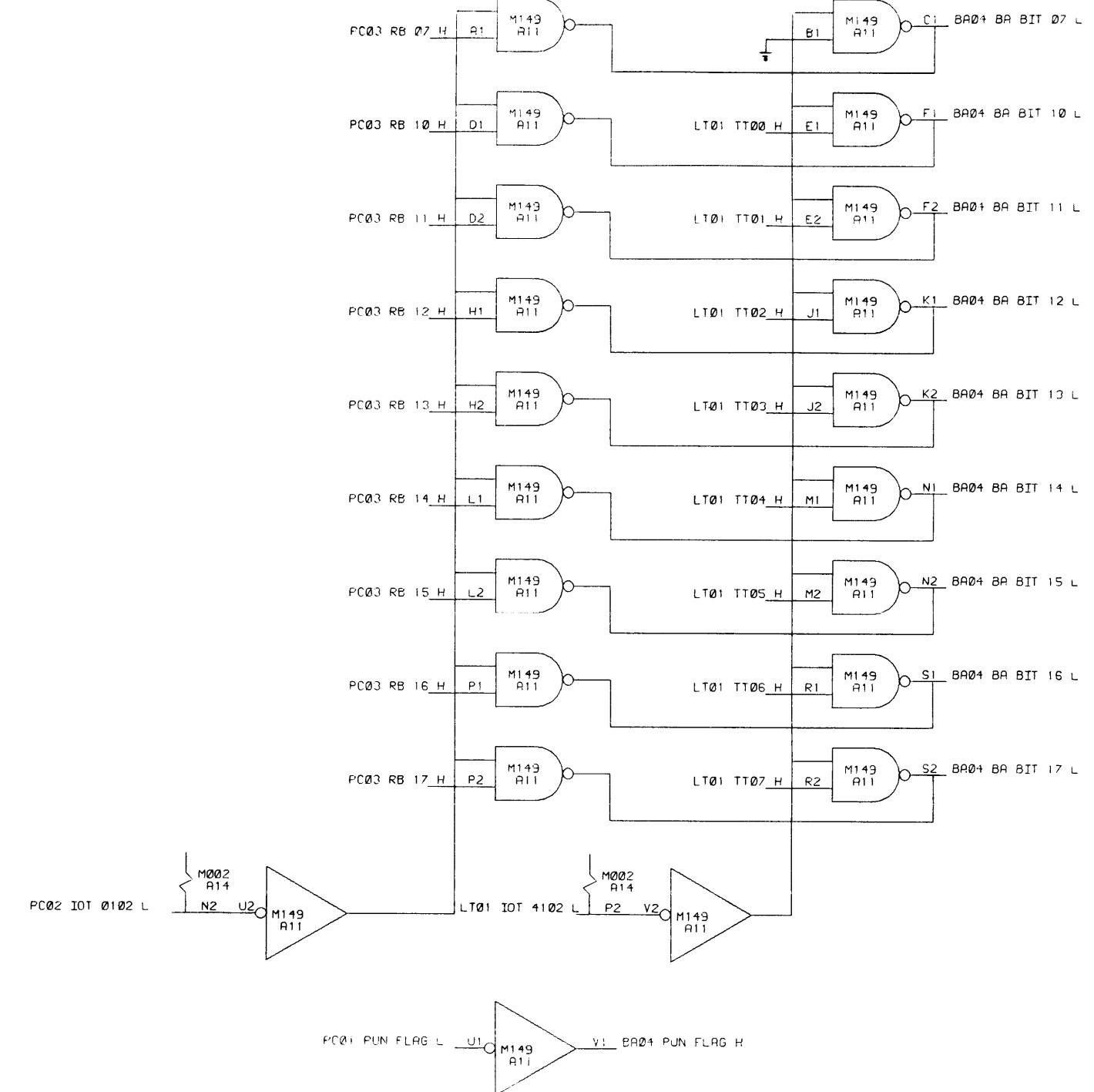
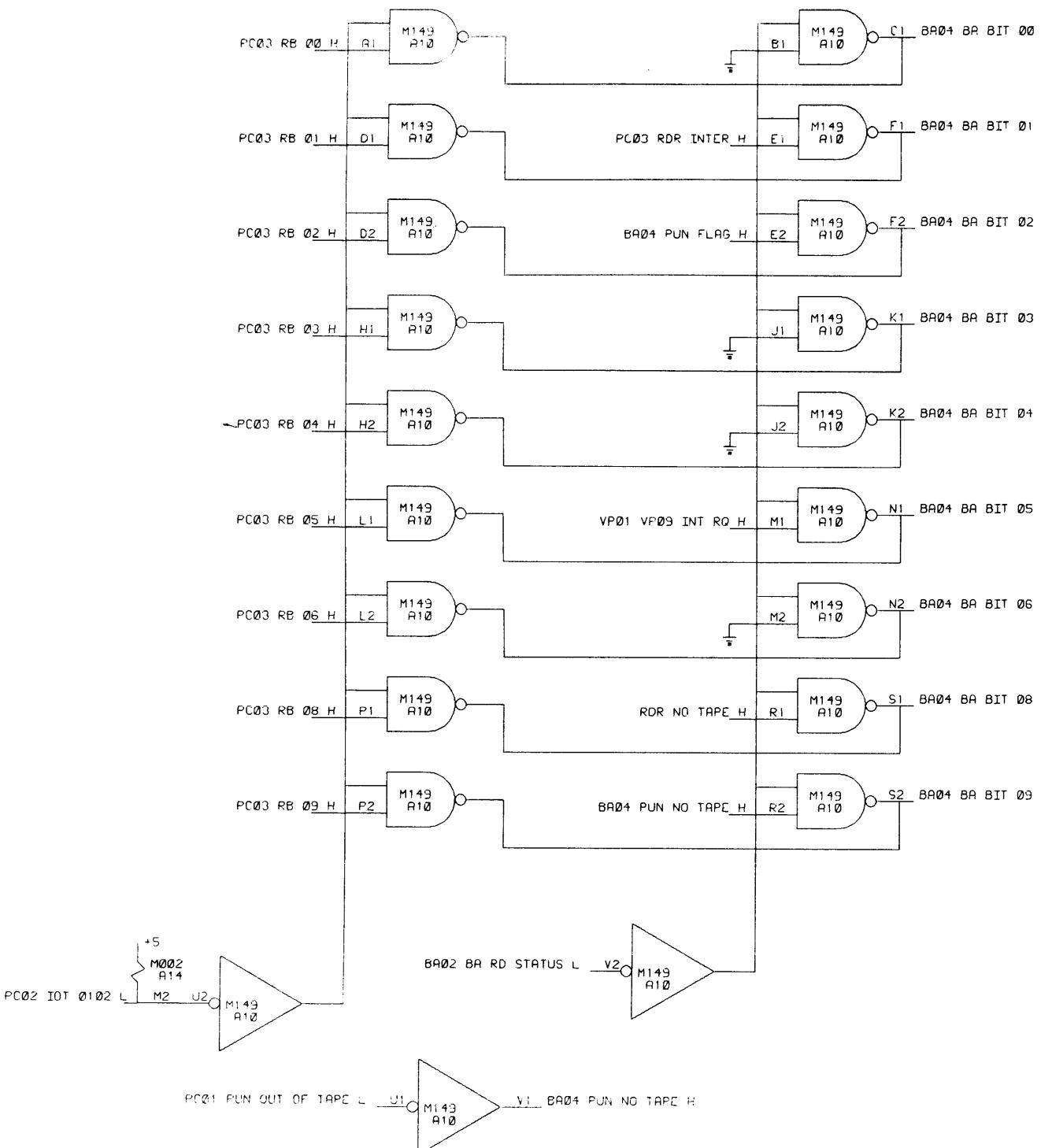
EE2

FF2</

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REVISIONS	
CHK	CHANGE NO.
NR	BA15-00001 A
K	COTE
F	AUMANN
PU	BA15-00002 B
K	COTE 3/25/70
F	AUMANN 3/26/70
BA	BA15-00203

DRN. M SCHURMAN	DATE 11/12/69	digital EQUIPMENT CORPORATION MASSACHUSETTS	
CHK'D N RHEAULT	DATE 11/12/69	TITLE	
ENG. NEWMYER	DATE 12/7/69	1/Q MIXER	
PROJ. ENG. HUMANN	DATE 12/3/69		
PROD. F LASKEY	DATE 12/6/69		
FIRST USED ON			
BA15			
SCALE	SIZE CODE D 1BS	NUMBER BA15-A-04	REV. C
SHEET 1 OF 1	DIST.		

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D

D

C

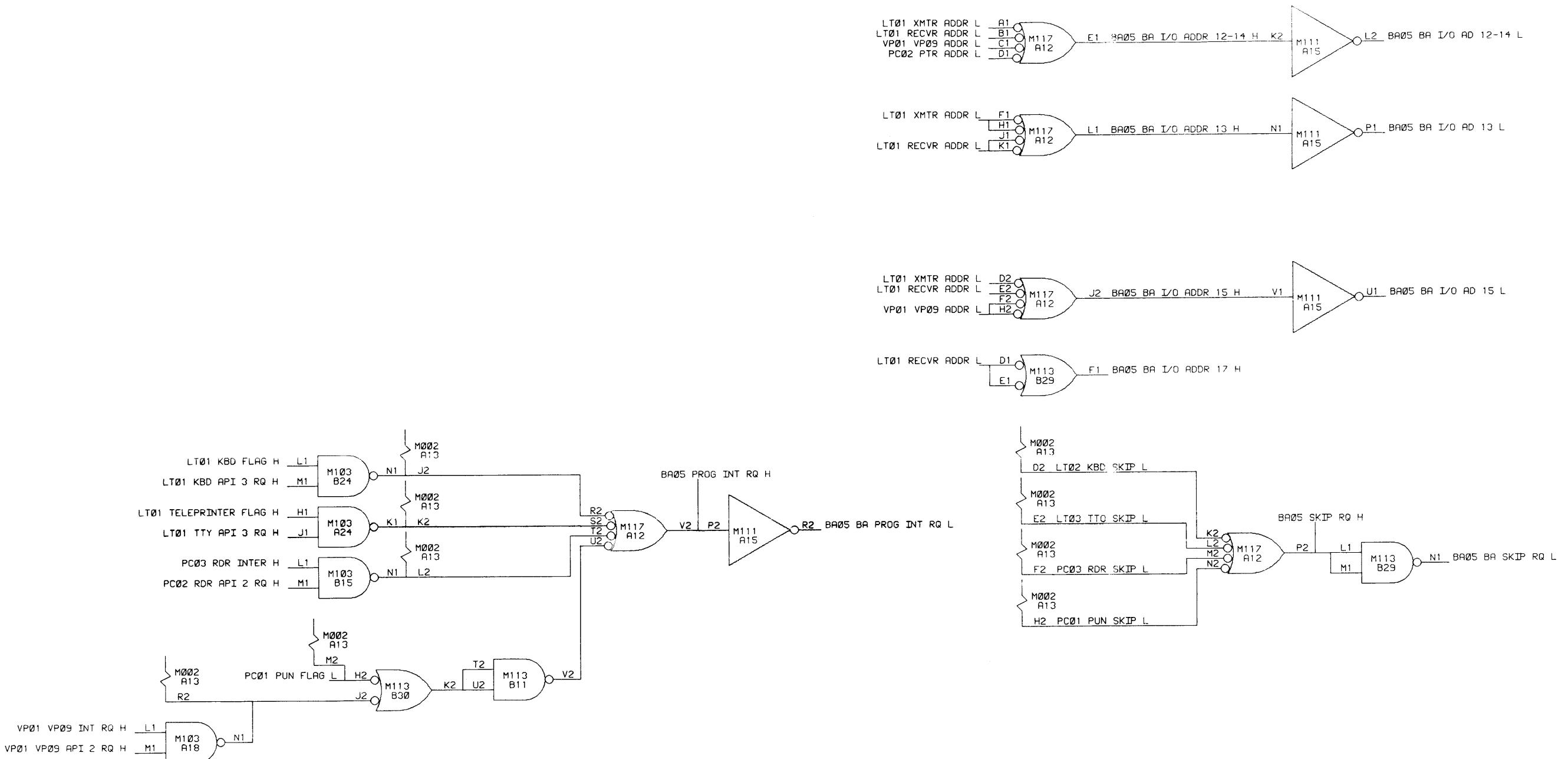
C

B

B

D

A



REVISIONS		
CHK	CHANGE NO.	REV.
✓	BA15-00001	A
K	COTE	
F	AUMANN	
✓	BA15-00002	B

DRN M SCHURMAN	DATE 1/12/69	EQUIPMENT	
RHCD R RHEAULT	DATE 1/12/69	CORPORATION	
ENC E NEWMYER	DATE 1/23/69	TITLE	
BRO ENG F AUMANN	DATE 1/23/69	MULTIPLEXER	
PROD F LASKEY	DATE 1/26/69		
FIRST USED ON BA15	SIZE CODE D 185	NUMBER BA15-0-05	REV. B
SCALE 1 OF 1	SHEET 1	DIST	

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D

D

C

C

B

B

M901

A29

A2	BA05 PROG INT RQ H
B2	BA05 SKIP H
C2	PC02 IND RDR API 2 H
D2	PC02 IND VP09 API 2 H
E2	LT01 IND KBD API 3 H
F2	LT01 IND TTY API 3 H
H2	PC03 RDR INTER H
J2	BA04 PUN FLG H
K2	VP01 VP09 INT RQ H
L2	LT01 KBD FLG H
M2	LT01 TELEPRINTER FLG H
N2	
P2	BA05 BA I/O ADDR 12-14 H
R2	BA05 BA I/O ADDR 13 H
S2	BA05 BA I/O ADDR 12-14 H
T2	BA05 BA I/O ADDR 15 H
U2	
V2	BA05 BA I/O ADDR 17 H

M901

A29

A1	PC03 RB 00 H
B1	PC03 RB 01 H
C1	PC03 RB 02 H
D1	PC03 RB 03 H
E1	PC03 RB 04 H
F1	PC03 RB 05 H
H1	PC03 RB 06 H
J1	PC03 RB 07 H
K1	PC03 RB 08 H
L1	PC03 RB 09 H
M1	PC03 RB 10 H
N1	PC03 RB 11 H
P1	PC03 RB 12 H
R1	PC03 RB 13 H
S1	PC03 RB 14 H
T1	PC03 RB 15 H
U1	PC03 RB 16 H
V1	PC03 RB 17 H

REVISIONS		
CHK	CHANGE NO.	REV.
01Q	BA15-00001	A
	K COTE	
	F AUMANN	
	BA15-00002	B
	Z. [Signature]	6/17

6

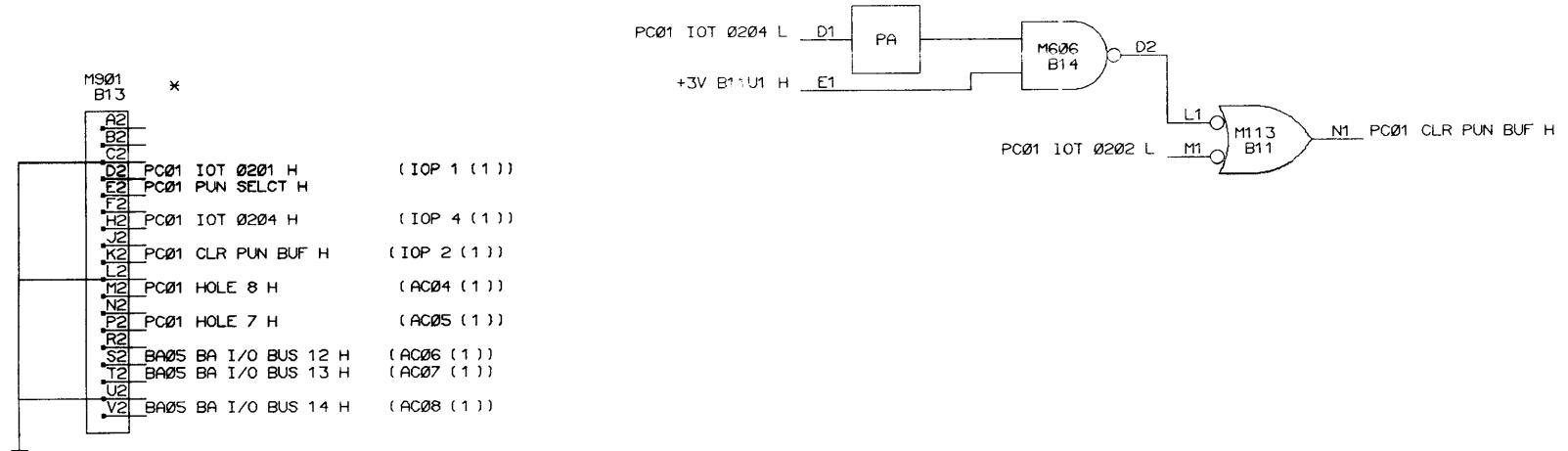
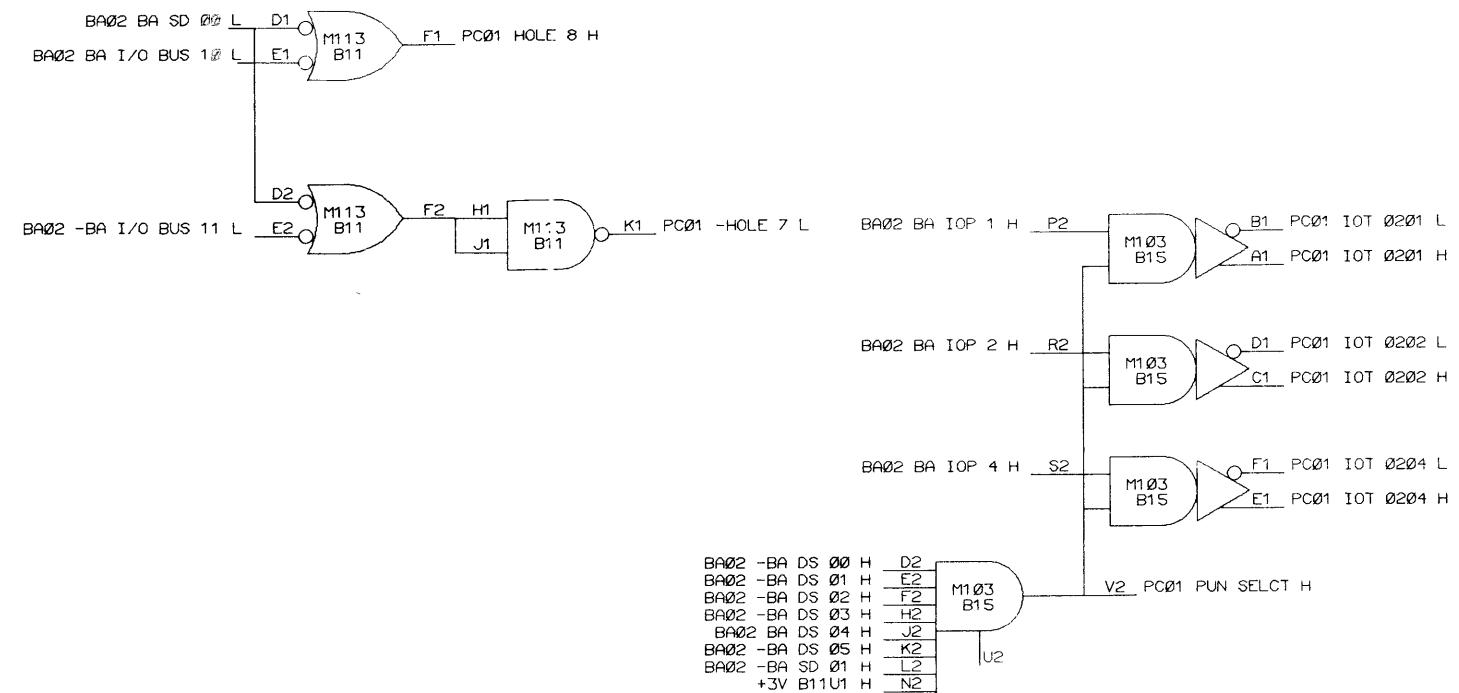
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DRN	DATE	digital EQUIPMENT CORPORATION		
1 SCHURMAN	1/12/69	MAHARD, MASSACHUSETTS		
CHKD	DATE			
Y RHEAULT	1/12/69			
END	DATE	TITLE		
NEWMYER	2/3/69	INDICATOR CABLE		
PROJ. ENG	DATE			
F. AUMANN	2/3/69			
PROD	DATE			
LASKEY	2/6/69			
FIRST USED ON				
BA15	SIZE	CODE	NUMBER	REV.
SCALE	D	IC	BA15-0-06	B
SHEET 1 OF 1	DIST.			

1

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8 7 6 5 4 3 2 1



M901 B13	*
A1	BA02 BA PWR CLR H (-INITIALIZE)
B1	BA02 BA I/O BUS 17 H (AC11 (1)) *
C1	PC01 PUN OUT OF TAPE L
D1	PC01 PUN FLAG L (-I/O BUS INT F)
E1	PC01 PUN SKP L (-I/O BUS SKIP)
F1	PC01 RDR FEED L (READER FEED)
G1	BA02 BA I/O BUS 16 H (AC10 (1))
H1	BA02 BA 1/O BUS 15 H (AC09 (1))
I1	
J1	
K1	
L1	
M1	
N1	
P1	
R1	
S1	
T1	
U1	
V1	

* PC05 SIGNAL NAMES INDICATED IN PARENTHESES IF DIFFERENT

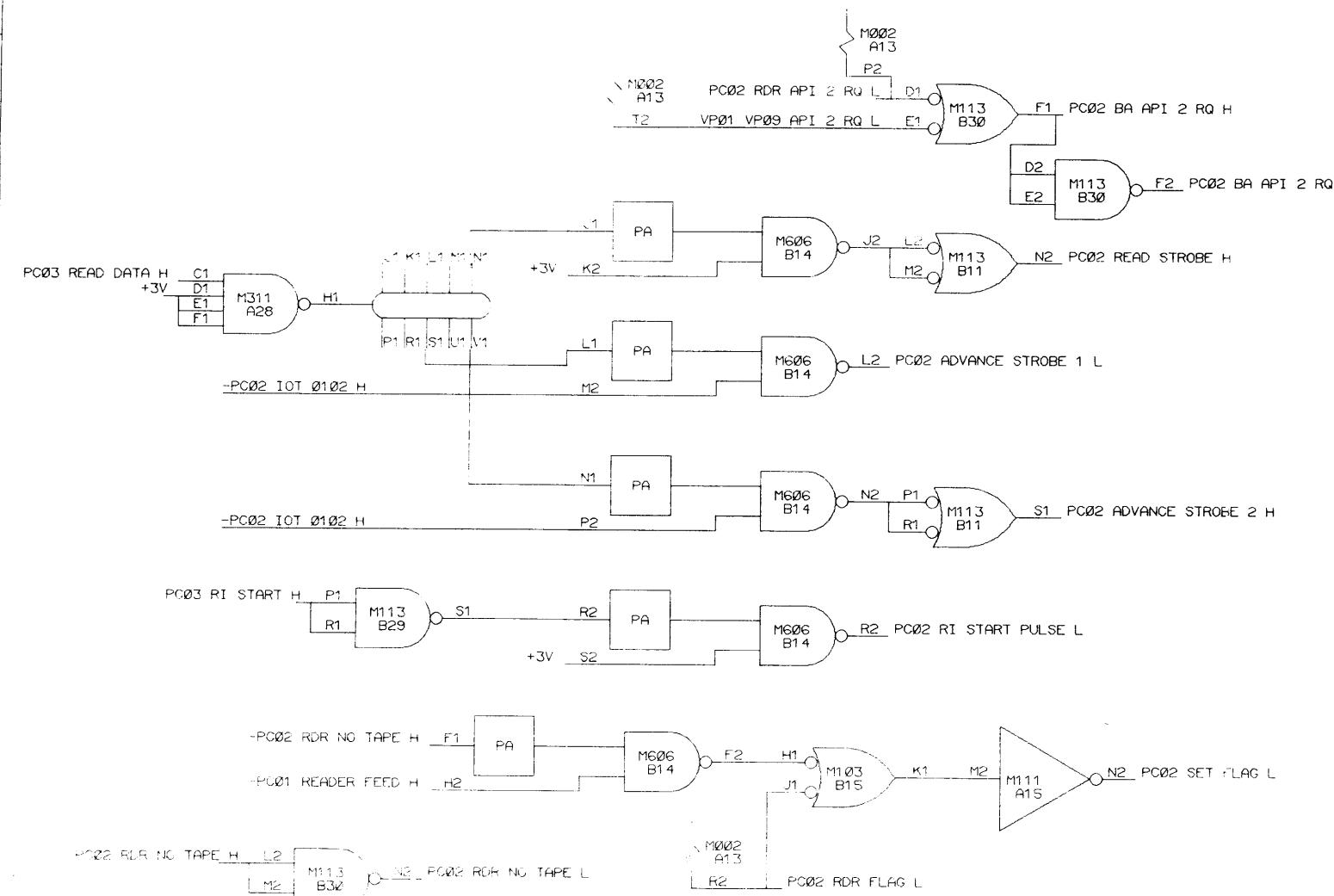
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CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
NR	BA15-00001	A	WM	BA15-00014	E
K COTE			K WALSH	3/30/71	
F AUMANN			F AUMANN	3/31/71	
PD	BA15-00002	B		BA15-00020	F
K COTE					
F AUMANN					
PD	BA15-00003	C			
K COTE	4/29/70				
F AUMANN	4/13/70				
GM	BA15-00012	D			
R SUFKA	2-17-71				
F HUMANN	2-22-71				

DRN:	M SCHURMAN	DATE:	11/12/69	digital EQUIPMENT CORPORATION
CHK'D:	N RHEAULT	DATE:	11/12/69	MAYNARD, MASSACHUSETTS
ENG:	E NEWMYER	DATE:	12/3/69	TITLE: HIGH SPEED PUNCH CONTROL
PROJ. ENG.	F AUMANN	DATE:	12/3/69	
PROD.	F LASKEY	DATE:	12/6/69	
FIRST USED ON:	BA15	SIZE CODE:	D BS	NUMBER: PC15-0-01
SCALE:		REV.:	F	
SHEET 1	OF 1	DIST.:		

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D
PC02 IOT 0104 L L1
PC02 RI START PULSE L M1 B12
N1 PC02 RI ST+SET ALPHA H
M103

BA02 BA I/O SYNC H H1
BA02 BA I/O PWR CLR H N1
BA02 BA API 2 GR H E2
PC02 IOT 0102 L F2
BA01 API 2 EN H H2
PC03 RDR INTER H S2
M104
B10



*DELETE B10H2 TO B10M2
WHEN INSTALLING PC15

BA02 BA IOP 1 H P2
M103 B12
B1 PC02 IOT 0101 L
A1 PC02 IOT 0101 H

BA02 BA IOP 2 H R2
M103 B12
D1 PC02 IOT 0102 L
C1 PC02 IOT 0102 H

BA02 BA IOP 4 H S2
M103 B12
F1 PC02 IOT 0104 L
E1 PC02 IOT 0104 H

BA02 -BA DS 00 H D2
BA02 -BA DS 02 H E2
BA02 -BA DS 03 H F2
BA02 -BA DS 04 H H2
BA02 -BA DS 05 H J2
BA02 -BA SD 01 H K2
+3V B11U1 H L2
N2

V2 PC02 PC SEL H H1
M103 B12
K1 PC02 SEL BINARY L
J1 U2

PC02 RDR API 2 RQ L P1
M113 B30
S1 PC02 IND RDR API 2 H

VP01 VP09 API 2 RQ L P2
M113 B30
S2 PC02 IND VP09 API 2 H

M901	B28	+
A1		
B1		
C1		
D1	BA02 BA PWR CLR L	(-INITIALIZE)
E1	PC02 RDR FLAG L	(-I/O BUS INT)
F1		
H1	PC02 RDR NO TAPE H	
J1		
K1		
L1		
M1	PC02 RB 7 L	(-I/O BUS 11)
N1		
P1	PC02 RB 6 L	(I/O BUS 10)
R1		
S1	PC02 RB 5 L	(-I/O BUS 09)
T1		
U1		
V1		

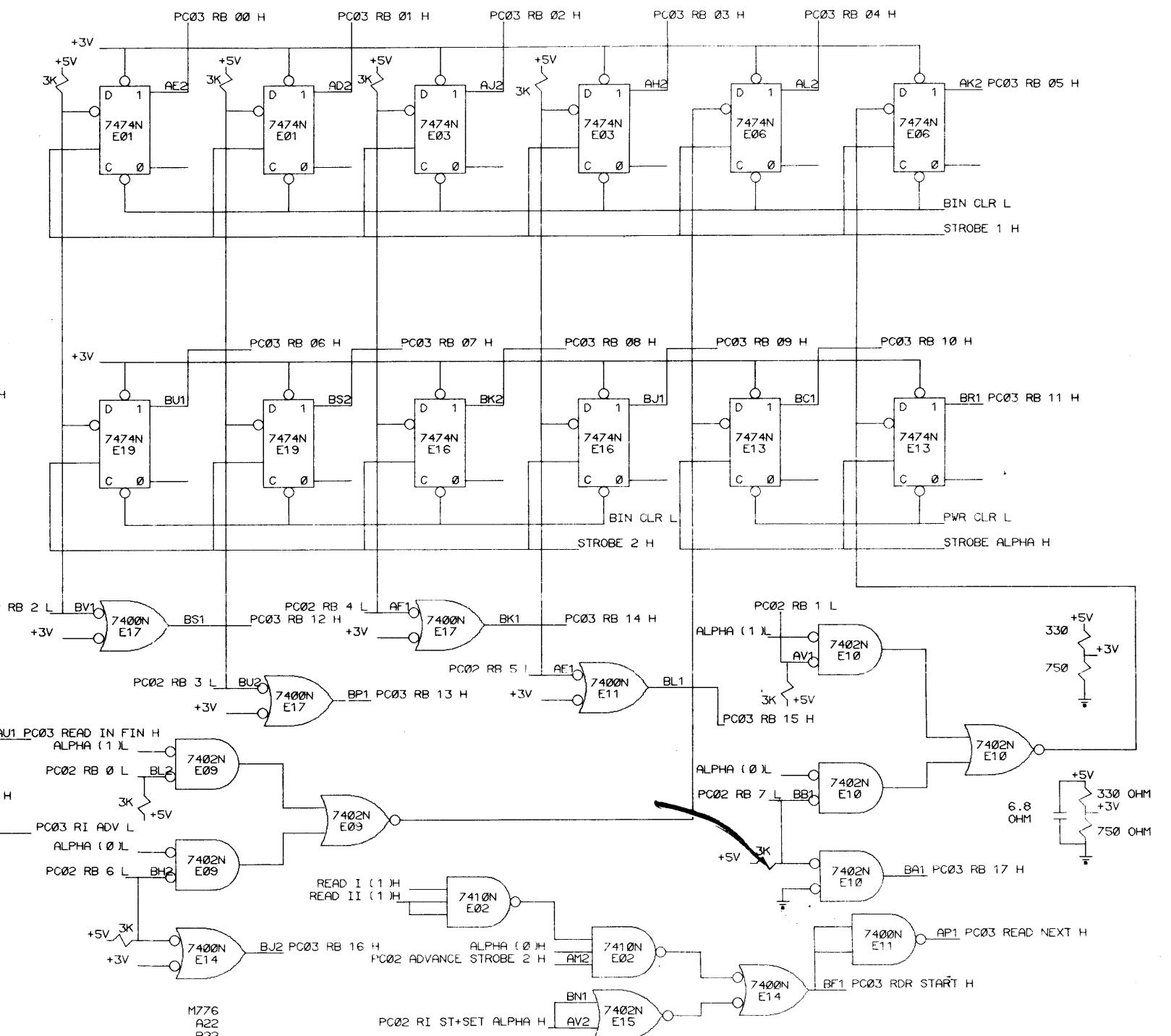
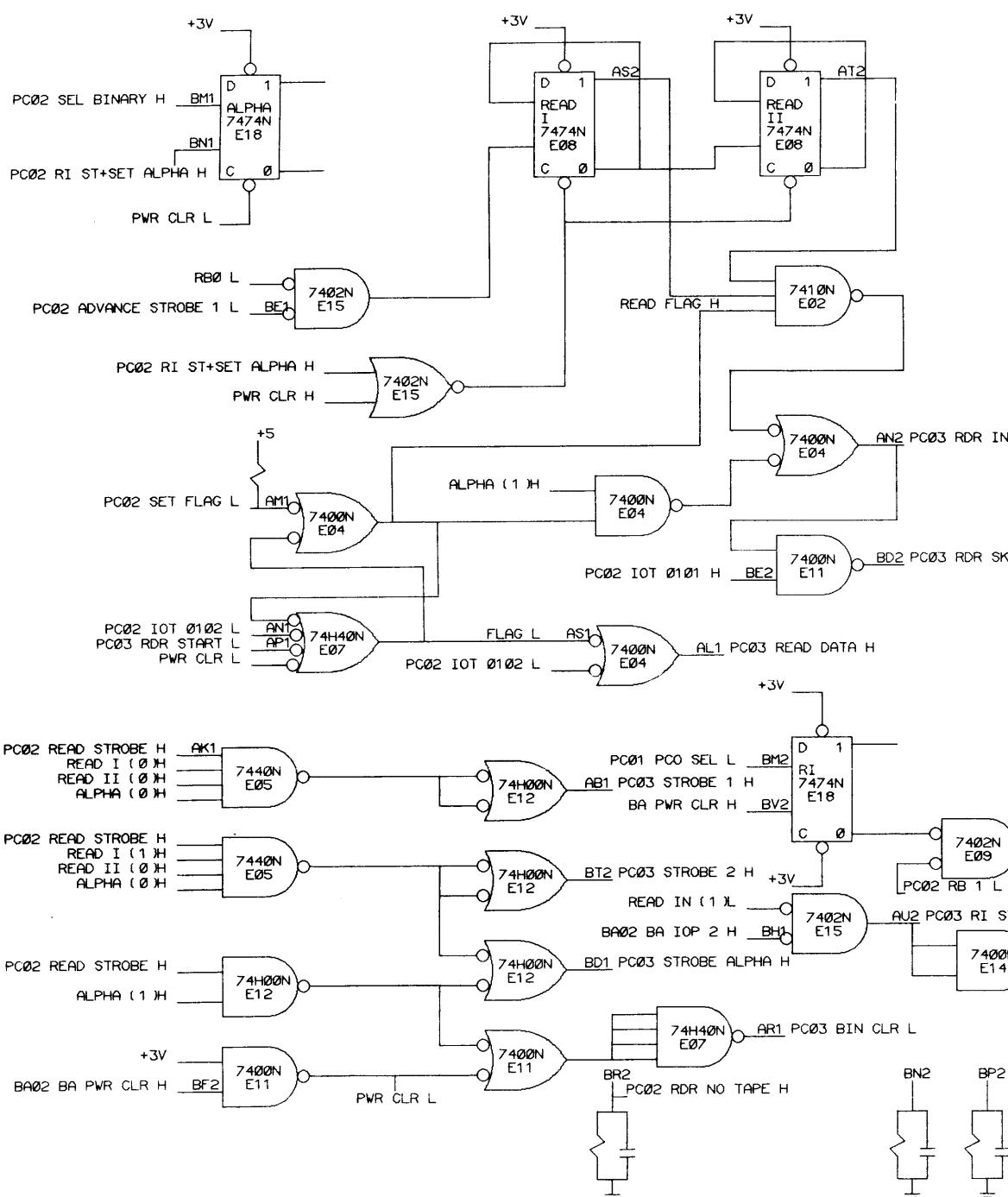
M901	B28	+
A2		
B2		
C2		
D2	+3V B11U1 H	(QUALIFY)
E2	PC03 READ NEXT H	(IOP 4 (1))
F2		
H2	PC03 READ DATA H	(IOP 2 (1))
J2		
K2	PC02 RB 0 L	(-I/O BUS 4)
L2		
M2	PC02 RB 1 L	(-I/O BUS 5)
N2		
P2	PC02 RB 2 L	(-I/O BUS 6)
R2		
S2	PC02 RB 3 L	(-I/O BUS 7)
T2		
U2	PC02 RB 4 L	(-I/O BUS 8)
V2		

+ PC05 SIGNAL NAMES INDICATED
IN PARENTHESES IF DIFFERENT

REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
NR	BA15-00001	A	GH	BA15-00008	E
K COTE			K KRYSIAK	Z/2/70	
F AUMANN			F AUMANN	Z/2/70	
PD	BA15-02262 TB	G	BA15-02261		
X COTE			R JUKKA	Z/2/70	
F AUMANN			F HUMPHREY	Z/2/70	
PD	BA15-02264	I	BA15-02263		
K COTE	4/8/70		K COTE	4/8/70	
F AUMANN	4/8/70		F AUMANN	4/8/70	
BA15	4/8/70		BA15	4/8/70	
R SUKKA			R SUKKA		
F AUMANN			F AUMANN		

DRN:	11/12/69	DATE:	11/12/69	digital	EQUIPMENT CORPORATION
CHND:		DATE:	11/12/69		MAYNARD, MASSACHUSETTS
ENG:		DATE:	12/3/69		
PROJ. ENG:		DATE:	12/3/69	HIGH SPEED READER CONTROL	
PROD:		DATE:	12/6/69		
FIRST USED ON:	BA15	SIZE CODE:		NUMBER:	REV.:
SCALE:	D / BS				
SHEET:	1	OF:	1	DIST.:	

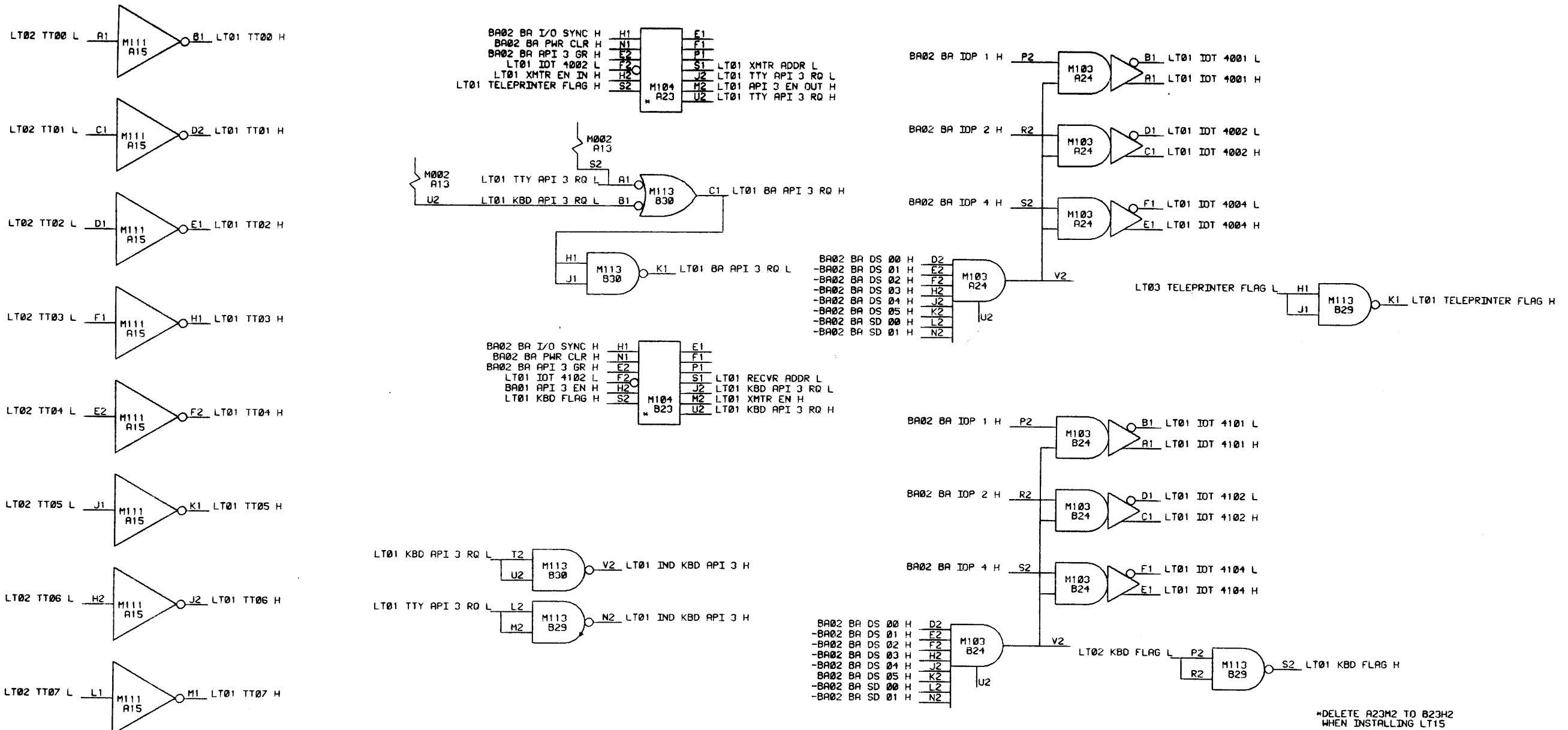
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REVISIONS		REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
NR	BA15-00001	A	GH	BA15-00014	E
K COTE			K WALSH	4/5/71	
F AUMANN			F. AUMANN	4/5/71	
PD	BA15-00002	B	BA15-00021	F	
K COTE	3/25/70				
F AUMANN	3/26/70				
GH	BA15-00009	C			
K KRYGLAK	7/7/70				
F AUMANN	7/12/71				
GH	BA15-00012	D			
R SOFKA	2-17-71				
F AUMANN	2-22-71				

DRN	DATE	EQUIPMENT CORPORATION	
CHK'D	DATE	digital	
ENG	DATE	MAYNARD MASSACHUSETTS	
E NEWMYER	7/23/69		
PROJ. ENG.	F. AUMANN	DATE	7/23/69
PROD.	F. LASKEY	DATE	7/26/69
FIRST USED ON			
5A15		SIZE	CODE
SCALE		D	B3
SHEET	1 OF 1	NUMBER	PC15-0-03
		REV.	F
		DIST.	

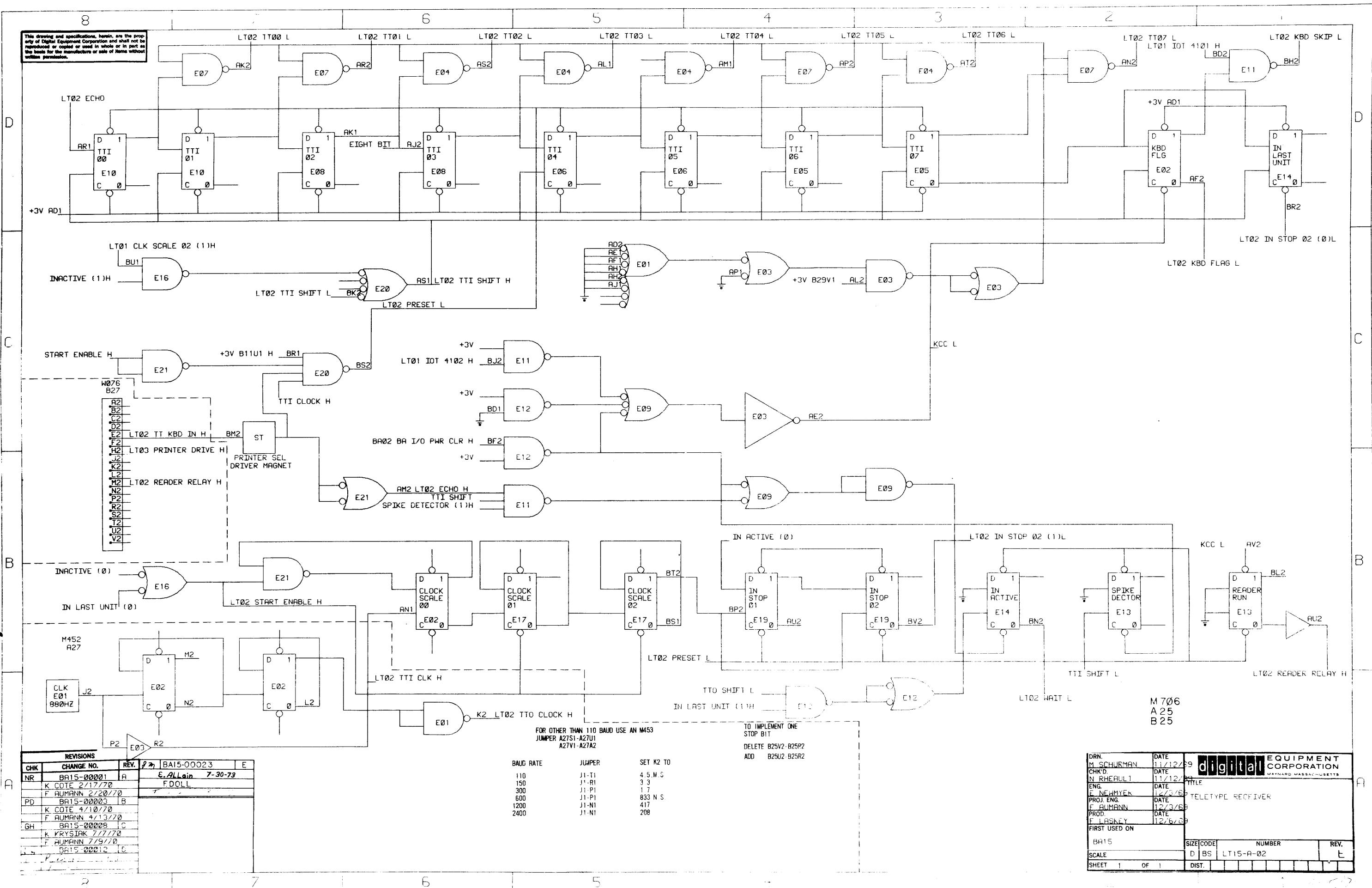
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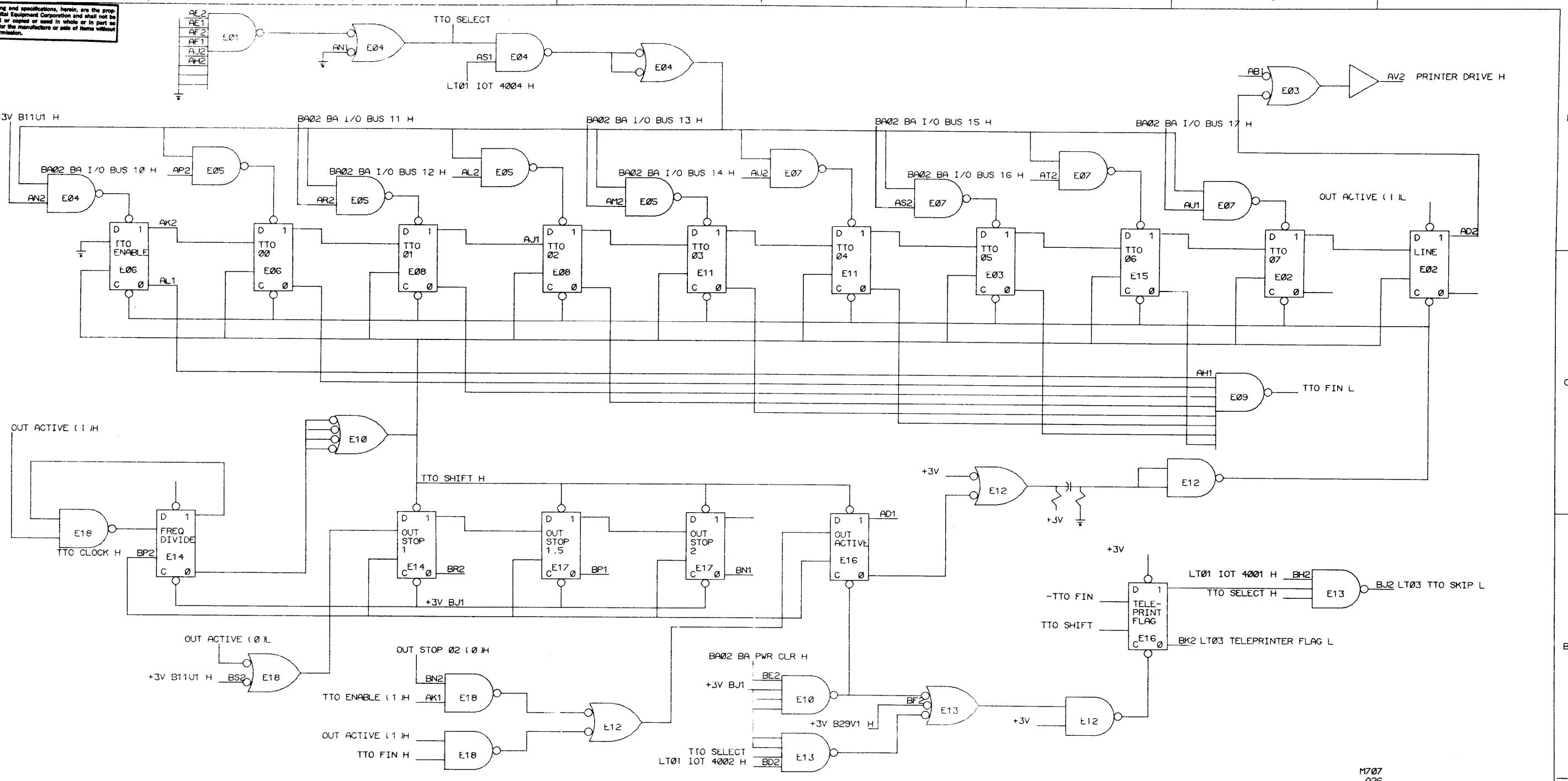
REVISIONS		
CHK	CHANGE NO.	REV.
NR	BA15-00001	A
K	COTE	
F	RUMANN	
PD	BA15-00002	B
K	COTE 3/25/70	
F	RUMANN	
GH	BA15-00003	C
K	KRYSIAK 7/7/70	
F	RUMANN 7/9/70	
W	BA15-00012	D
R	RECEIVED 11/1/71	

DRN. M. SCHURMAN	DATE 11/12/69	digital EQUIPMENT CORPORATION
CHK'D. N. RHEAULT	DATE 11/12/69	MAYNARD, MASSACHUSETTS
ENG. E. NEHMYER	DATE 12/3/69	TITLE TELETYPE CONTROL
PROJ. ENG. C. ALUMANN	DATE 12/3/69	
PROD. C. LASKEY	DATE 12/6/69	
FIRST USED ON BA15		
SHEET 1 OF 1	SIZE CODE D BS	NUMBER LT15-A-01
DIST.	REV. D	

8



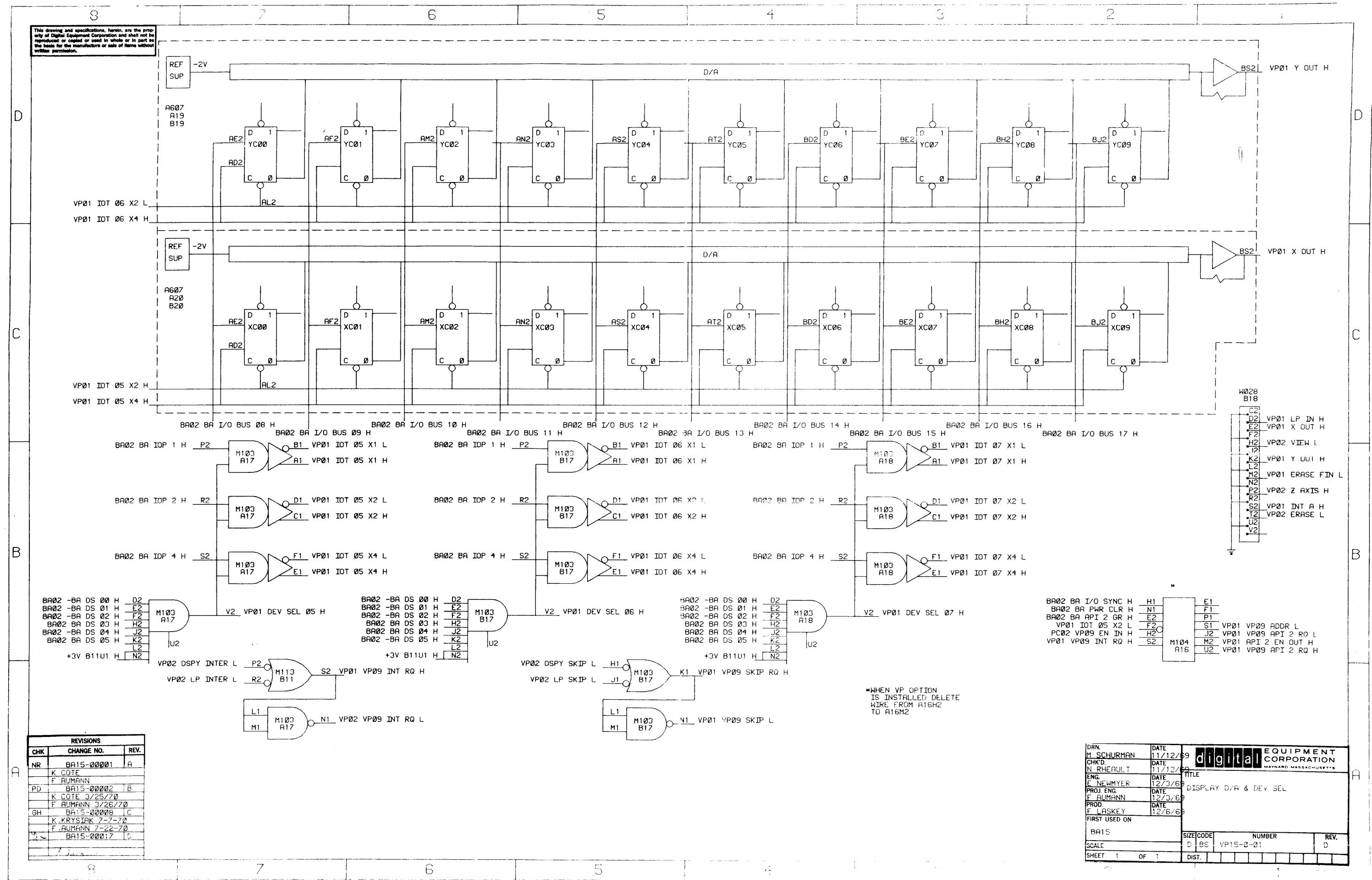
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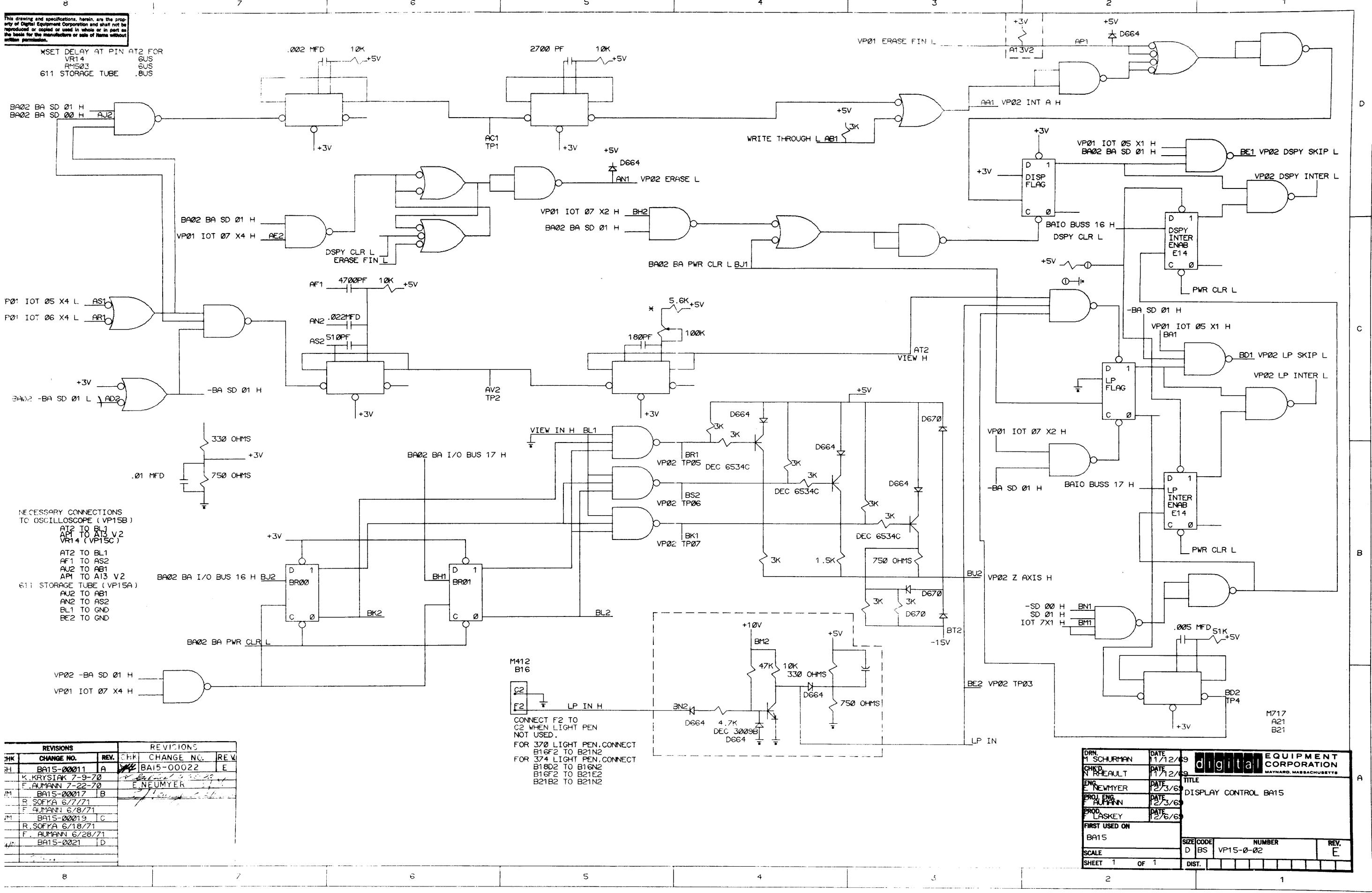


M707
A26
B26

REVISIONS		
CHK	CHANGE NO.	REV.
NR	BA15-00001	A
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F	AUMANN 2/20/70	
GH	BA15-00008	B
K	KRYSLAK 2/11/70	
F	AUMANN 2/9/70	
GH	BA15-00012	C
R	SOFKA 2/17/71	
F	AUMANN 2/22/71	
	BA15-00021	D

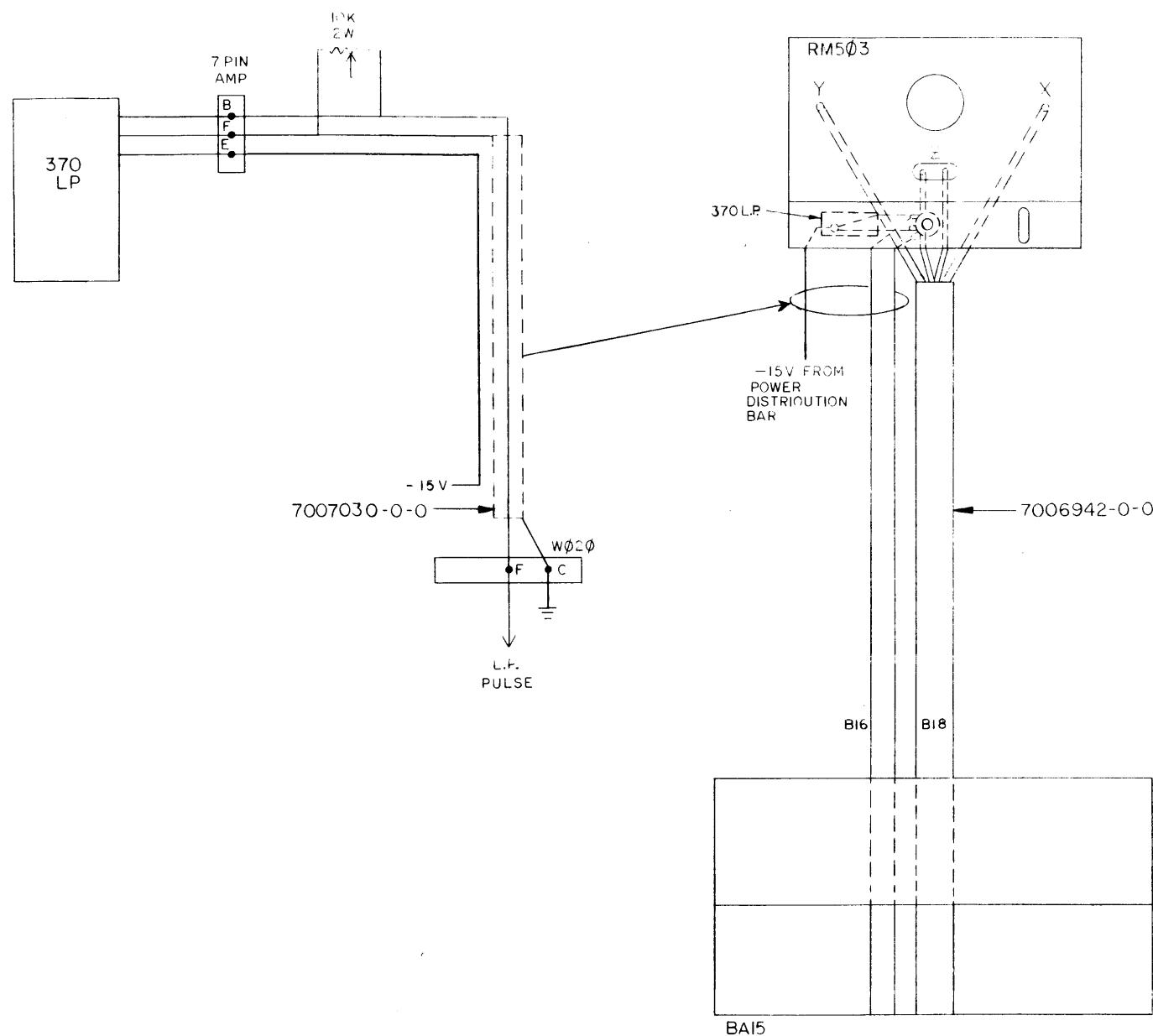
DRN. M. SCHURMAN	DATE 11/12/69	digital EQUIPMENT CORPORATION
CHKD. PHEAULT	DATE 11/12/69	MAYNARD, MASSACHUSETTS
ENG. E. NEWMYER	DATE 12/3/69	TITLE TELETYPE TRANSMITTER
PROJ. ENG. F. AUMANN	DATE 12/3/69	
PROD. F. LASKEY	DATE 12/6/69	
FIRST USED ON BA15		
SCALE SHEET 1 OF 1	NUMBER LT15-A-03	REV. D
DIST.		





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8 7 6 5 4 3 2 1

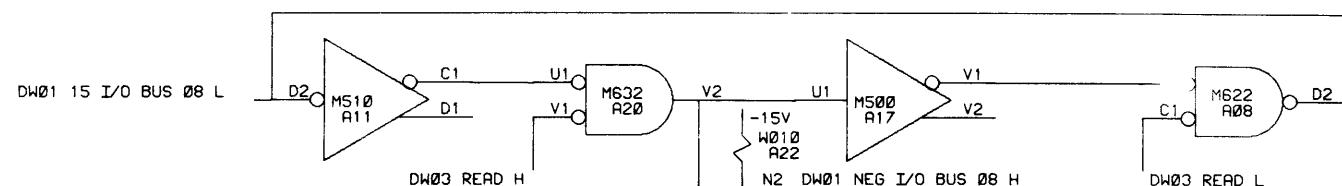
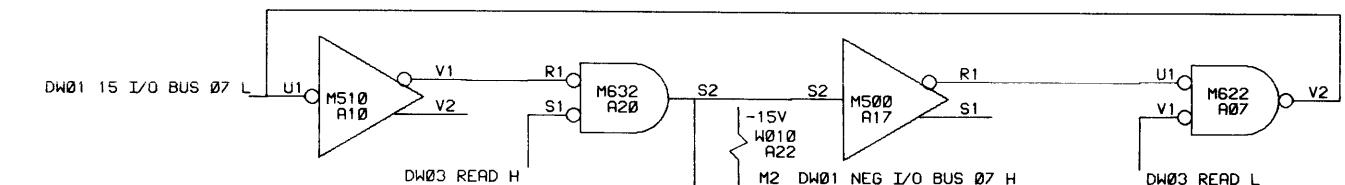
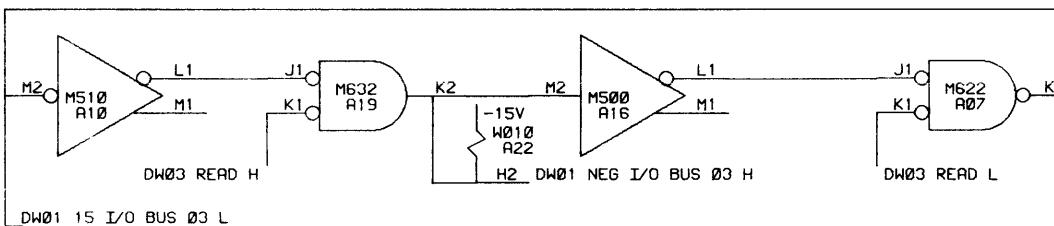
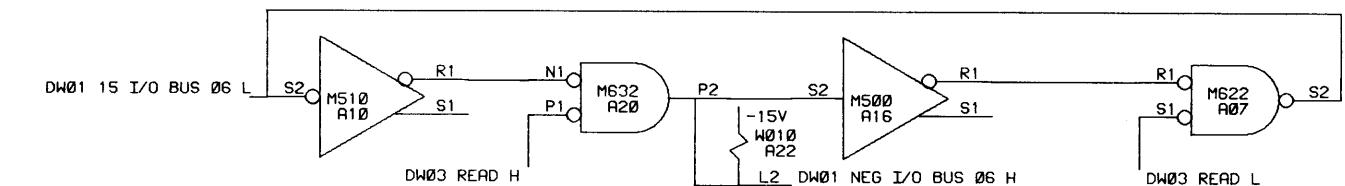
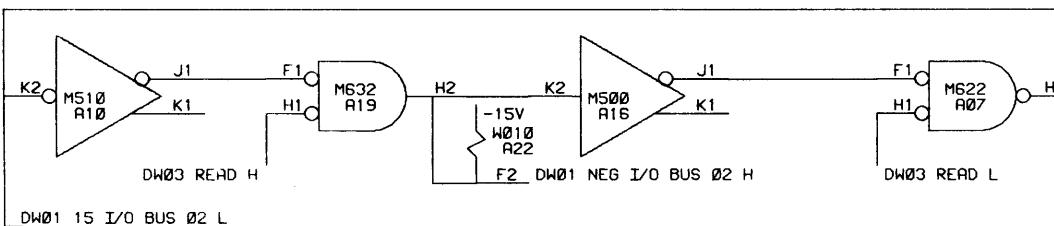
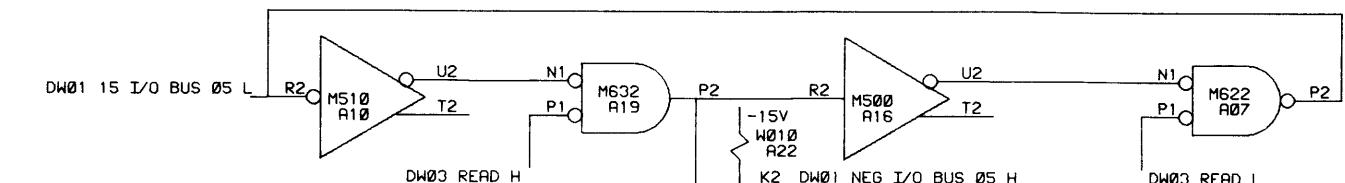
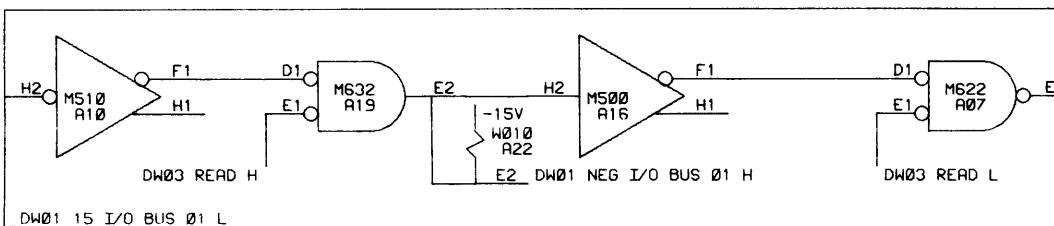
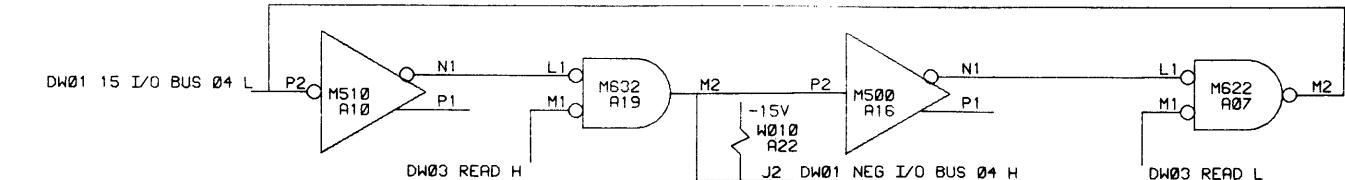
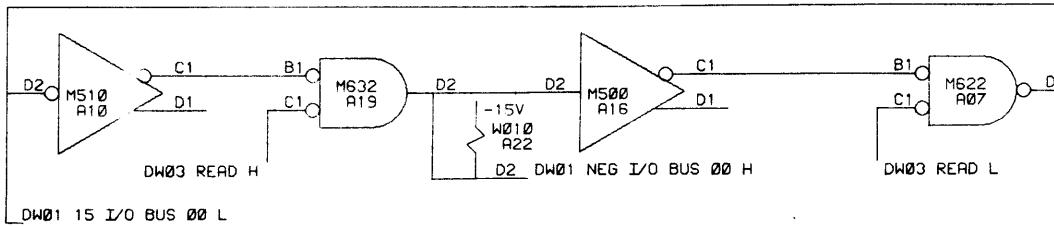


QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FIRST USED ON OPTION / MODEL VR15-BL			
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES $\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$ FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
DRN <i>gullin</i> DATE <i>12/12</i> CHKD <i>11/26</i> DATE <i>12/10</i> ENG <i>11/14/70</i> DATE <i>12/10</i> PROJ/ENG <i>11/14/70</i> DATE <i>12/10</i> PROD <i>11/14/70</i> DATE <i>12/10</i>			
MATERIAL <hr/>			
NEXT HIGHER ASSY A-ML-VPI5-BL-1			
FINISH <hr/>			
SCALE <i>+/- +</i> 1 OF 1 SHEET <i>1</i> DIST. <i>1</i>			
EQUIPMENT CORPORATION digital <i>MASSACHUSETTS</i> TITLE INTERCONNECTION DIAGRAM			
SIZE CODE <i>D1C</i> NUMBER <i>VPI5-BL-1</i> REV <i>A</i>			

REVISIONS		CHANGE NO.	REV
CHK		BA15-0001	
ORIGINATED			
		BA15-0001	A
R. DIETER			
P. J. Gullin			
3-15-71			

3 7 6 5 4 3 2 1

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN: K BOGGS	DATE: 9-3-69
CHK'D: N RHEAULT	DATE: 9-3-69
ENG: J PRATT	DATE: 9-3-69
PROJ. ENG: J PRATT	DATE: 9-3-69
PROD: F LASKEY	DATE: 9-3-69
FIRST USED ON: DW15	
SHEET 1 OF 1	SIZE CODE: D 8S
SCALE: 1	NUMBER: DW15-A-01
REV. 00	DIST.

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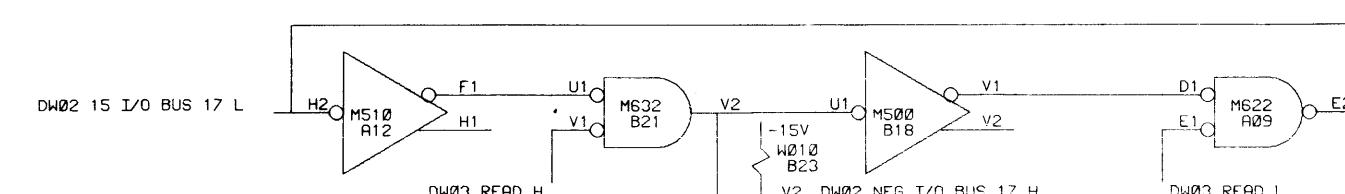
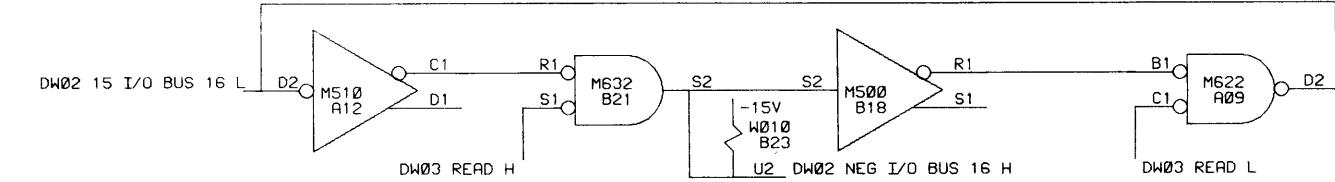
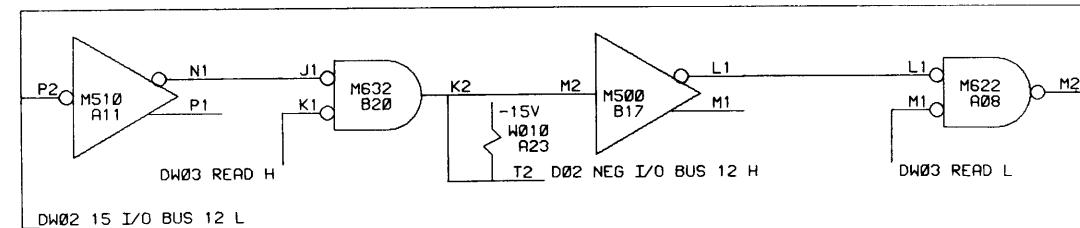
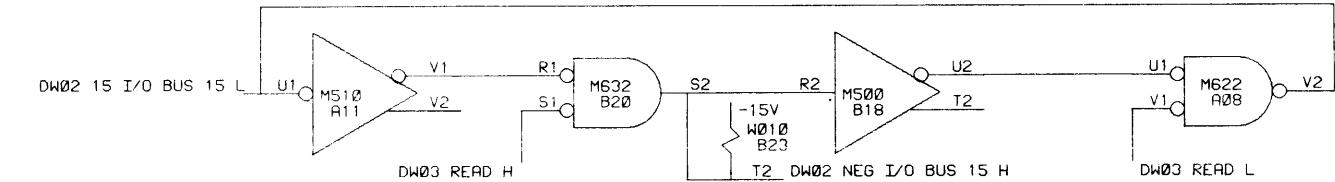
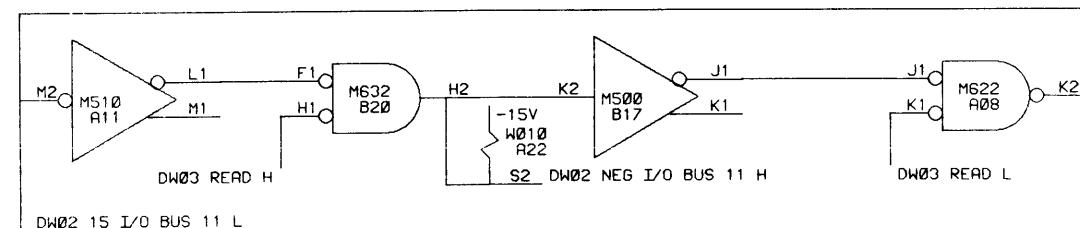
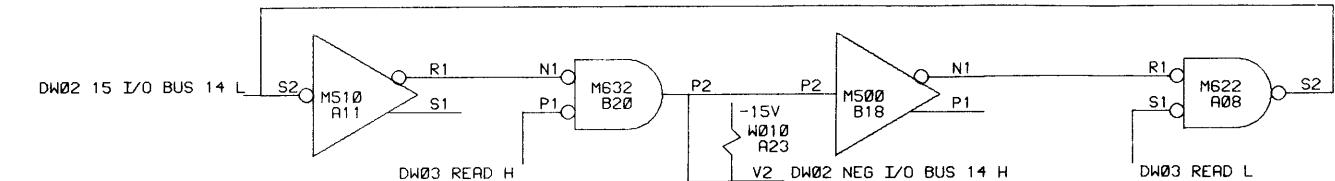
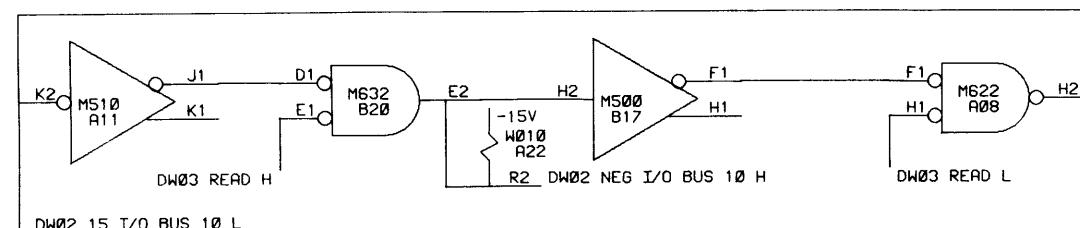
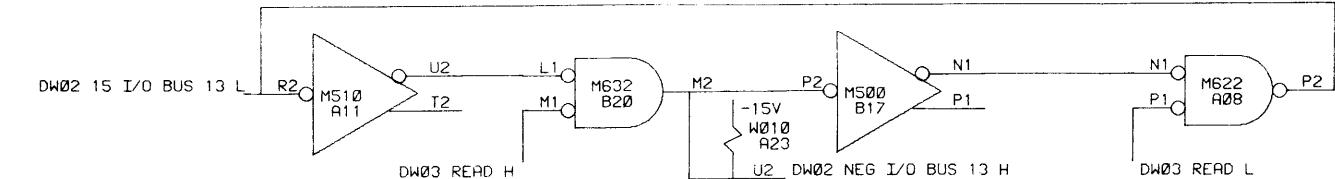
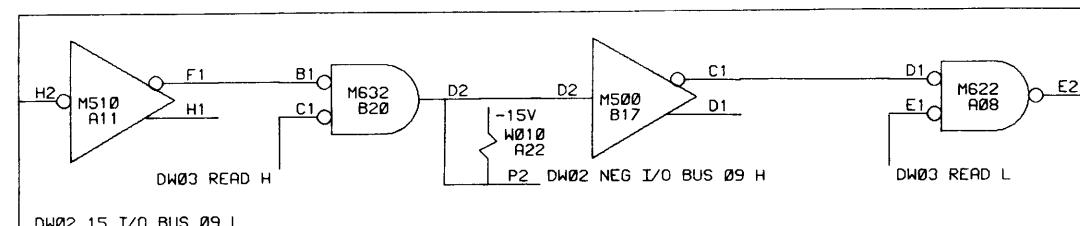
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1

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN: <i>K. Roggs</i>	DATE: 9-3-79
CHKD: <i>N. K. Engle</i>	DATE: 9-3-81
ENG: <i>P. Pratt</i>	DATE: 9-3-79
PROJ. ENG: <i>P. Pratt</i>	DATE: 9-3-79
PROD: <i>F. Laskin</i>	DATE: 9-9-69
FIRST USED ON: DW15	
SCALE: 1 OF 1	SIZE CODE: DW15-H-02
REV: 00	NUMBER:
DIST:	

8

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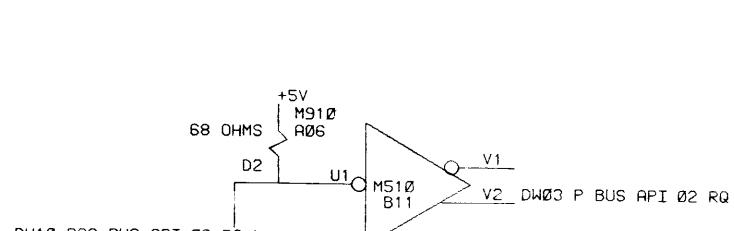
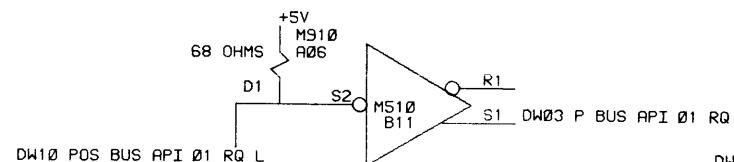
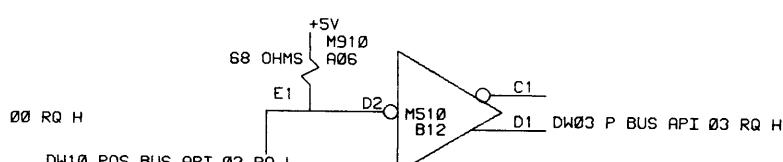
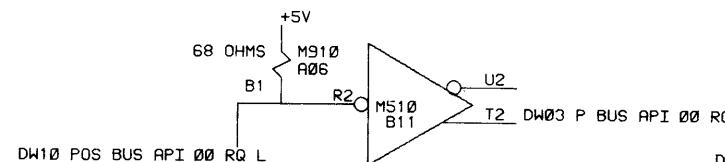
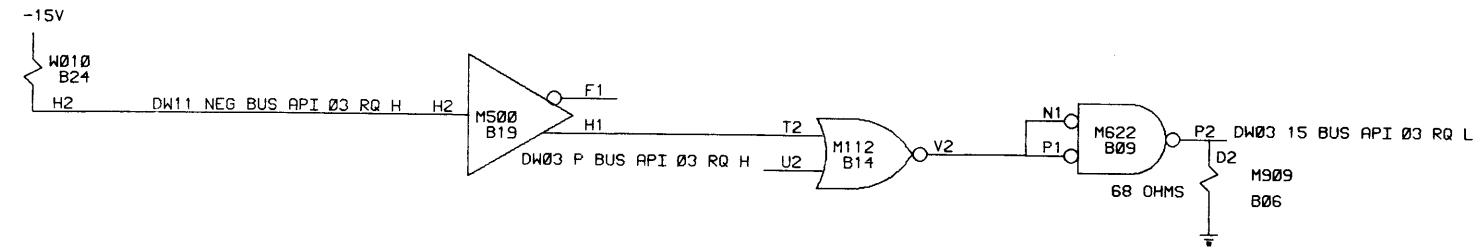
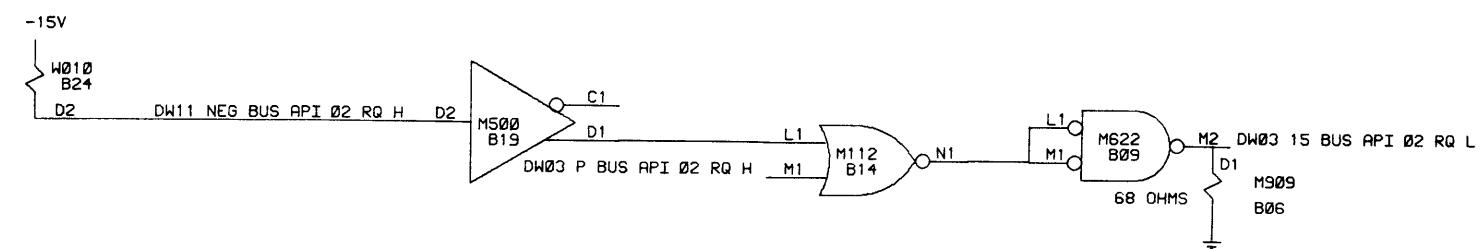
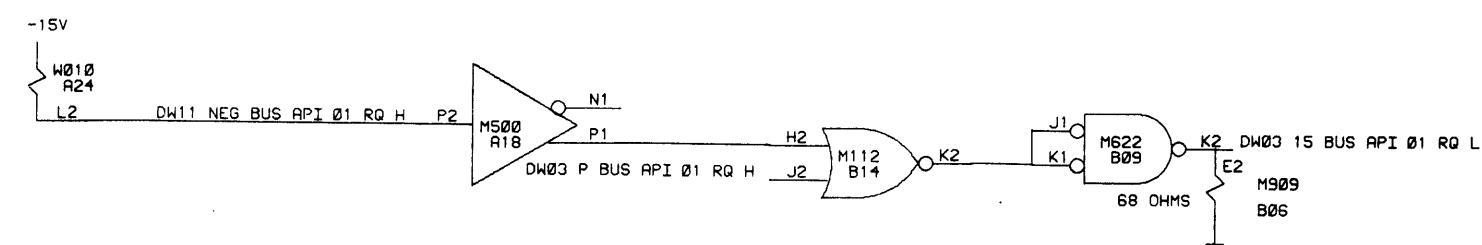
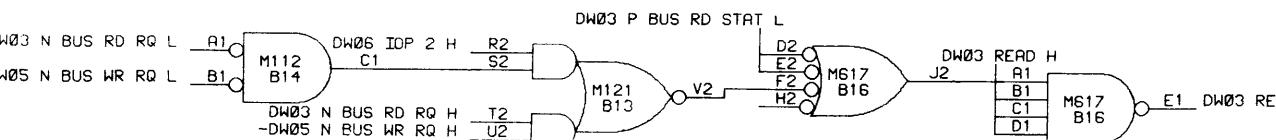
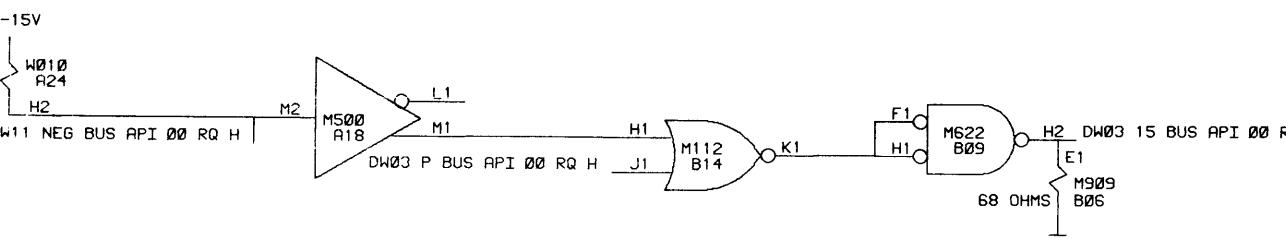
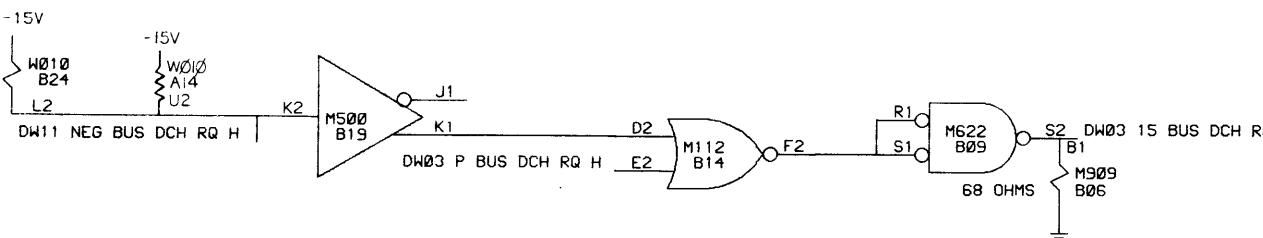
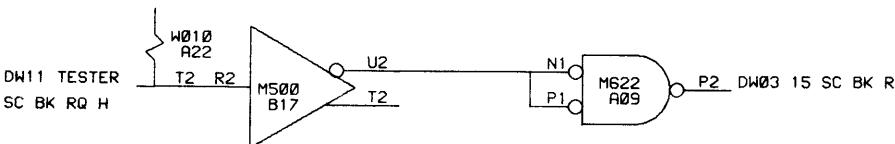
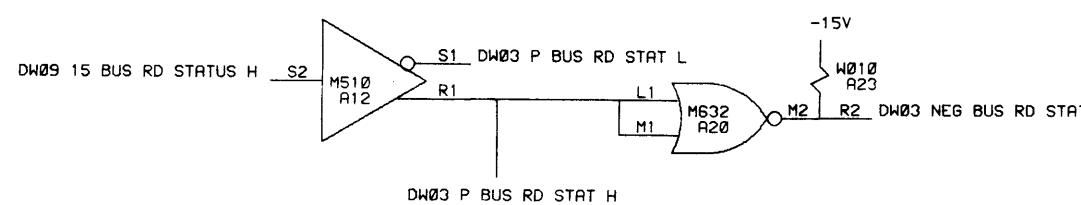
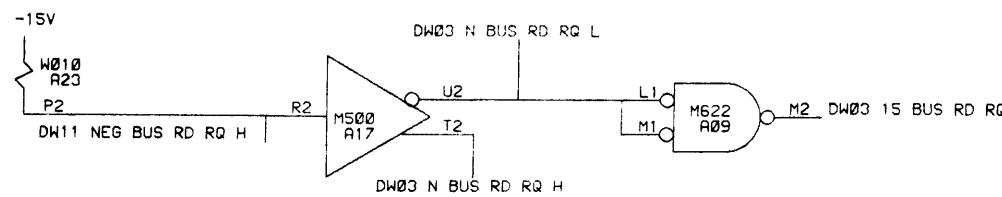
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REVISIONS		
CHK	CHANGE NO.	REV.
AN	DW15A-00001	A
	K KRYSTAK	
J PRATT		
AN	DW15A-00003	B
	K KRYSTAK	
J PRATT		
	DW15A-00004	C
L WEA-001		
T JU		

DRN. K BOOGES	DATE 9-3-69	EQUIPMENT CORPORATION
CHK'D N RHEAULT	DATE 9-3-69	MAYNARD, MASSACHUSETTS
ENG J PRATT	DATE 9-3-69	TITLE AP DCH RQ+BI DI BS CON
PROJ. ENG. J PRATT	DATE 9-3-69	
PROD F LASKEY	DATE 9-9-69	
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SCALE 1	REV. D	
SHEET 1 OF 1	DIST.	

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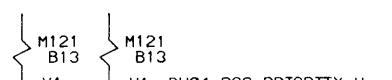
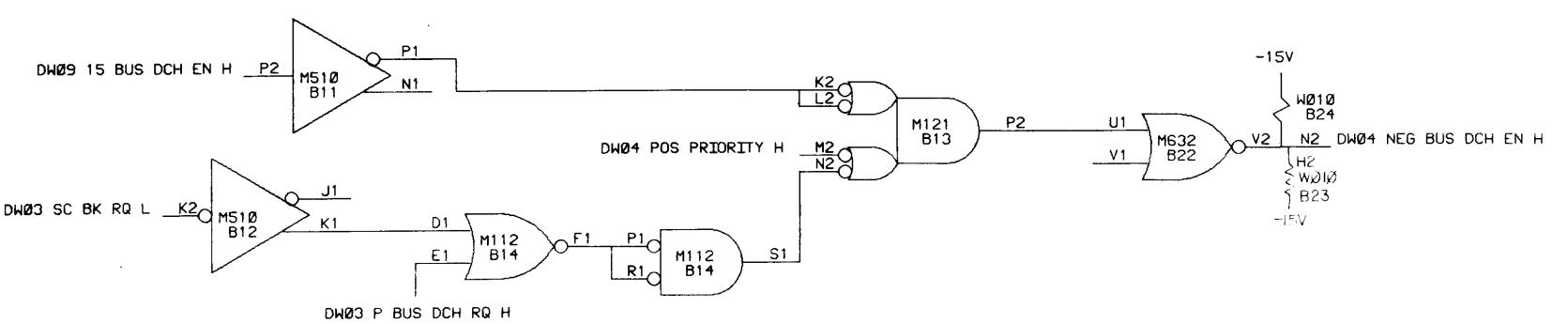
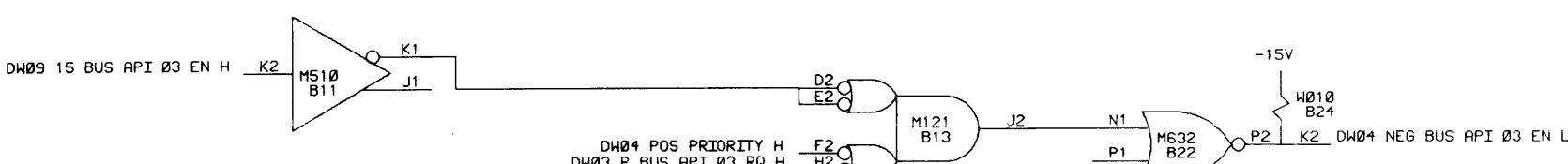
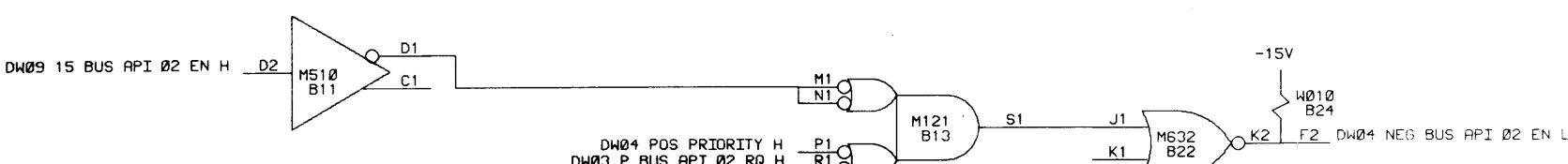
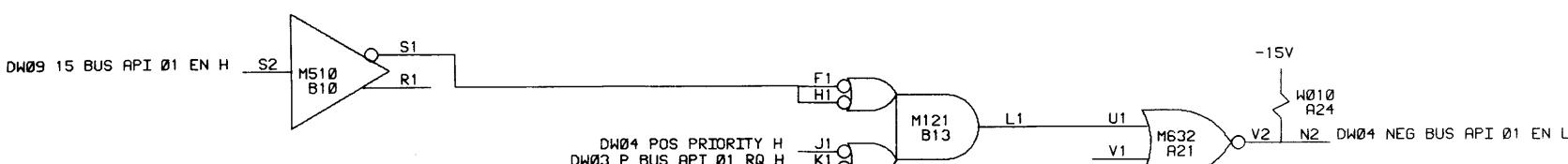
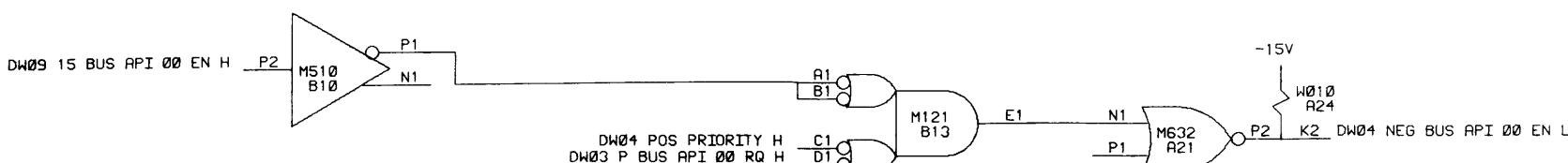
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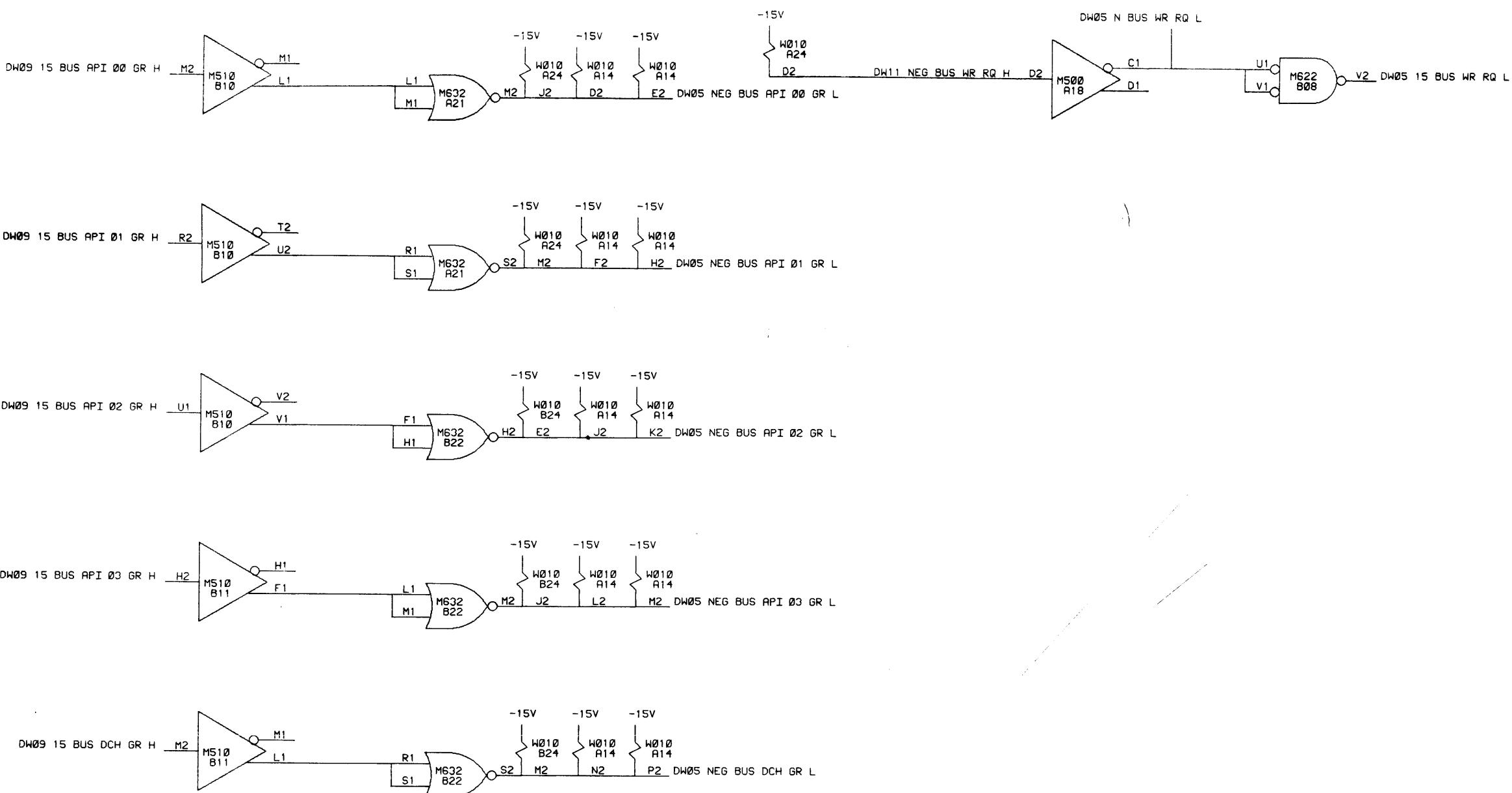
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MR. BOGGS	DATE 9/3/69	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
IKD. RHEAULT	DATE 9/3/69			
IC. PRATT	DATE 9/3/69			
JOI. ENG. PRATT	DATE 9/3/69	TITLE API + DCH ENABLES		
OOD. LASKEY	DATE 9/9/69			
FIRST USED ON DW15		SIZE D	CODE IBS	NUMBER DW15-A-04
CALE				REV. C
HEET 1 OF 1		DIST.		

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D. REV.

DRN K 80665	DATE 9-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. N RHEAULT	DATE 9-3-69			
ENG. J PRATT	DATE 9-3-69	TITLE API + DCH GRANTS		
PROJ. ENG. J PRATT	DATE 9-3-69			
PROD. E LASKEY	DATE 9-9-69			
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DW15				
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SHEET 1 OF 1	DIST.			

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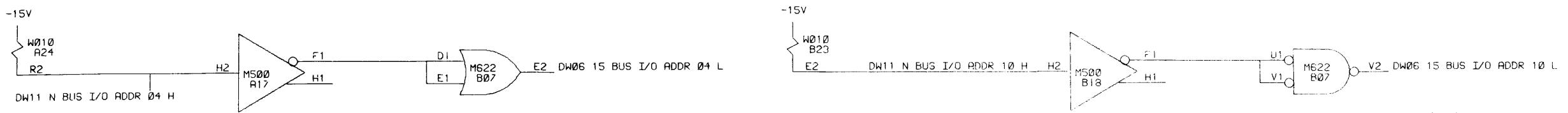
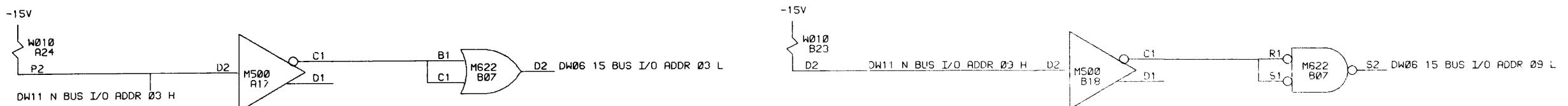
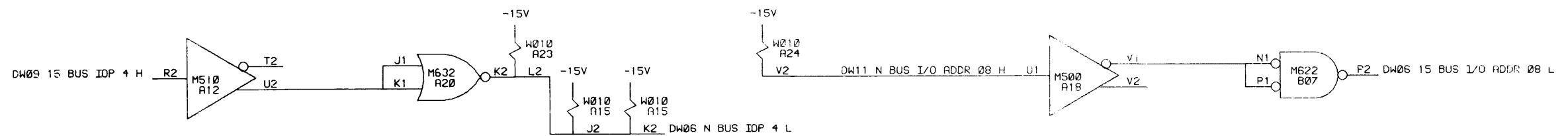
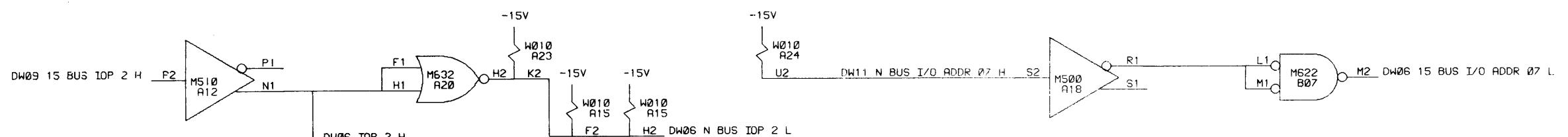
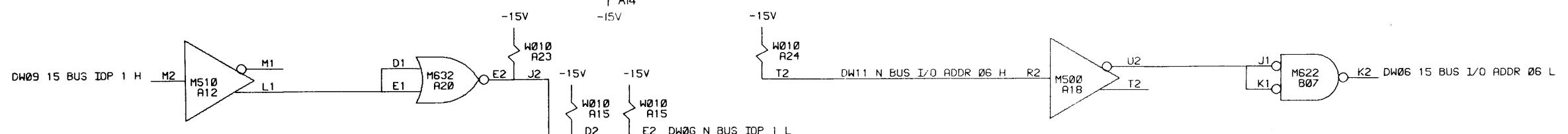
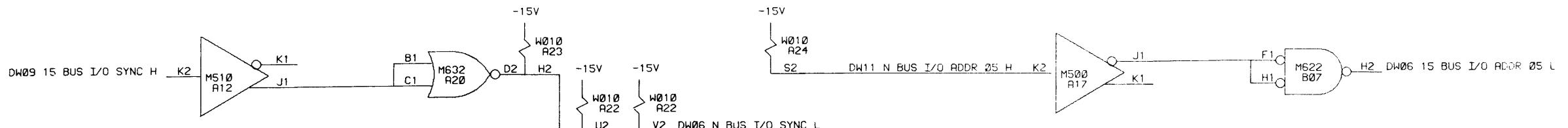
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REVISIONS		
CHK	CHANGE NO.	REV.
C	DW15-A 00006	A

DRN. <i>K BOOGES</i>	DATE <i>9-3-69</i>
CHKD <i>MR HEALY</i>	DATE <i>9-3-69</i>
ENG <i>J PRATT</i>	DATE <i>9-3-69</i>
PROJ ENG <i>J PRATT</i>	DATE <i>9-3-69</i>
PROD. <i>F LASKEY</i>	DATE <i>9-9-69</i>
FIRST USED ON	
DW15	SIZE CODE <i>D 65</i>
SCALE	NUMBER <i>DW15-A-06</i>
SHEET <i>1</i>	REV. <i>A</i>
OF <i>1</i>	DIST.

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

I/O ADDRESS 3-10

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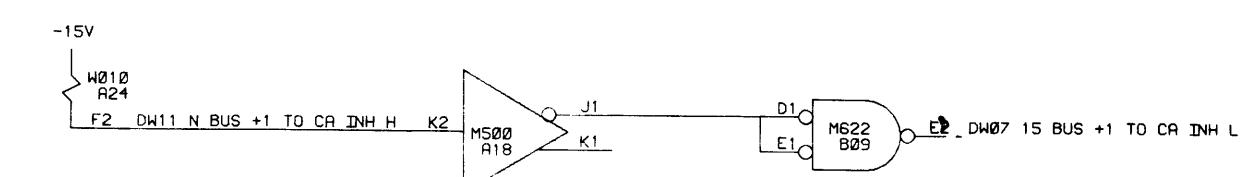
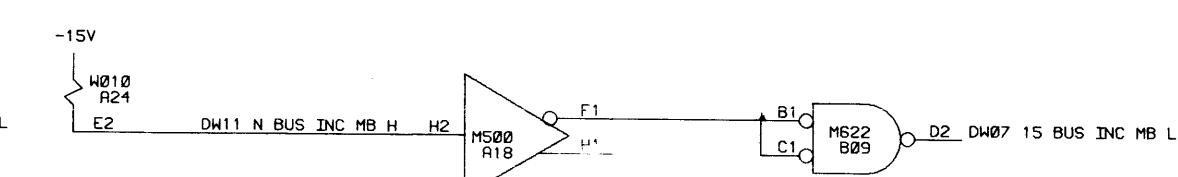
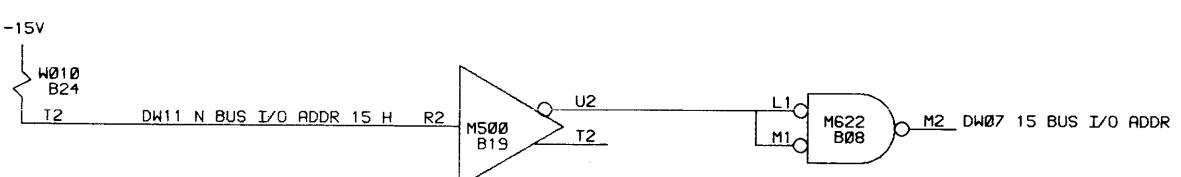
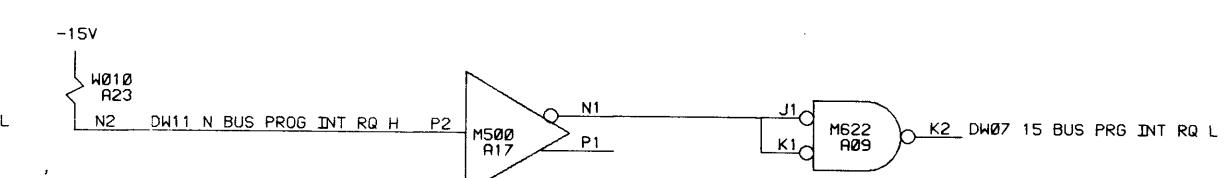
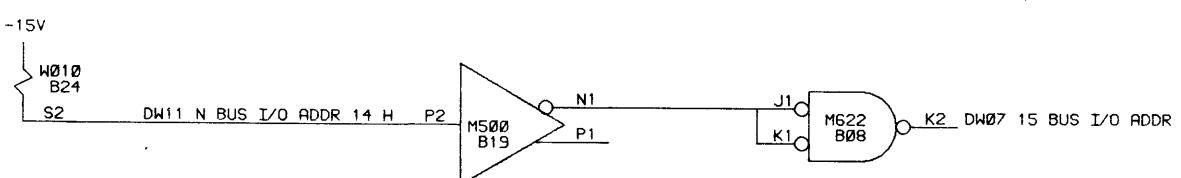
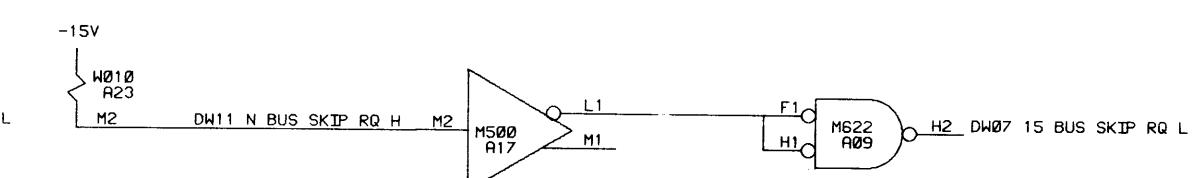
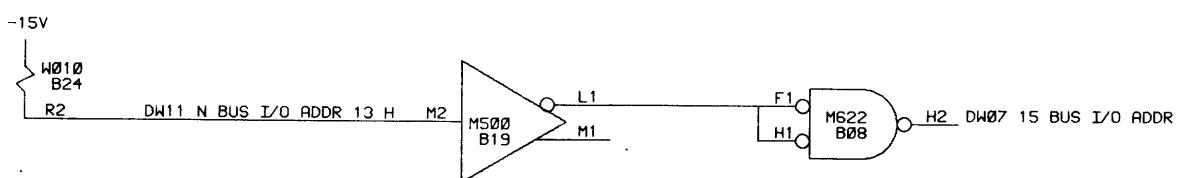
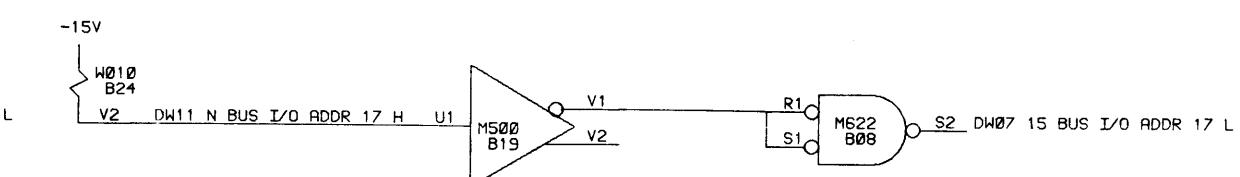
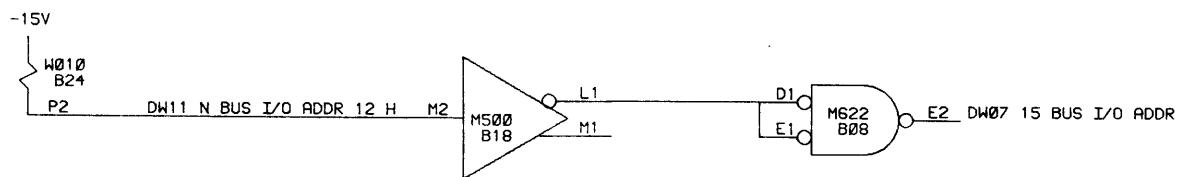
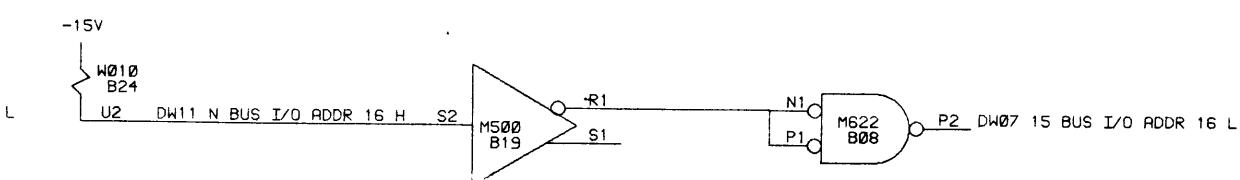
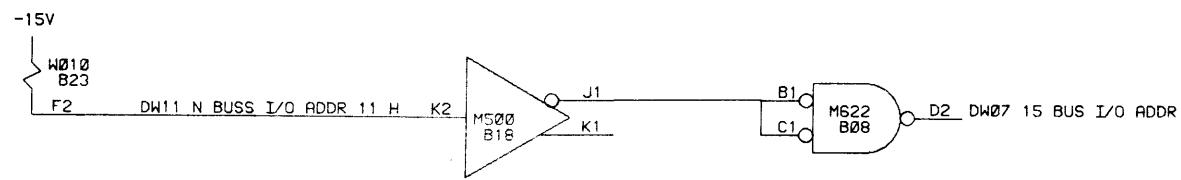
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REVISIONS		
CHK	CHANGE NO.	REV.

K. ROGGS	DATE 9-3-69	digital EQUIPMENT CORPORATION	
N. RHEAULT	DATE 9-3-69	MAYNARD, MASSACHUSETTS	
T. PRATT	DATE 9-3-69	TITLE I/O ADDRESS 11-17	
T. PRATT	DATE 9-3-69	PROJ. ENG.	
F. LASKEY	DATE 9-9-69	PROD.	
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SCALE D BS		NUMBER DH15-A-07	DIST.

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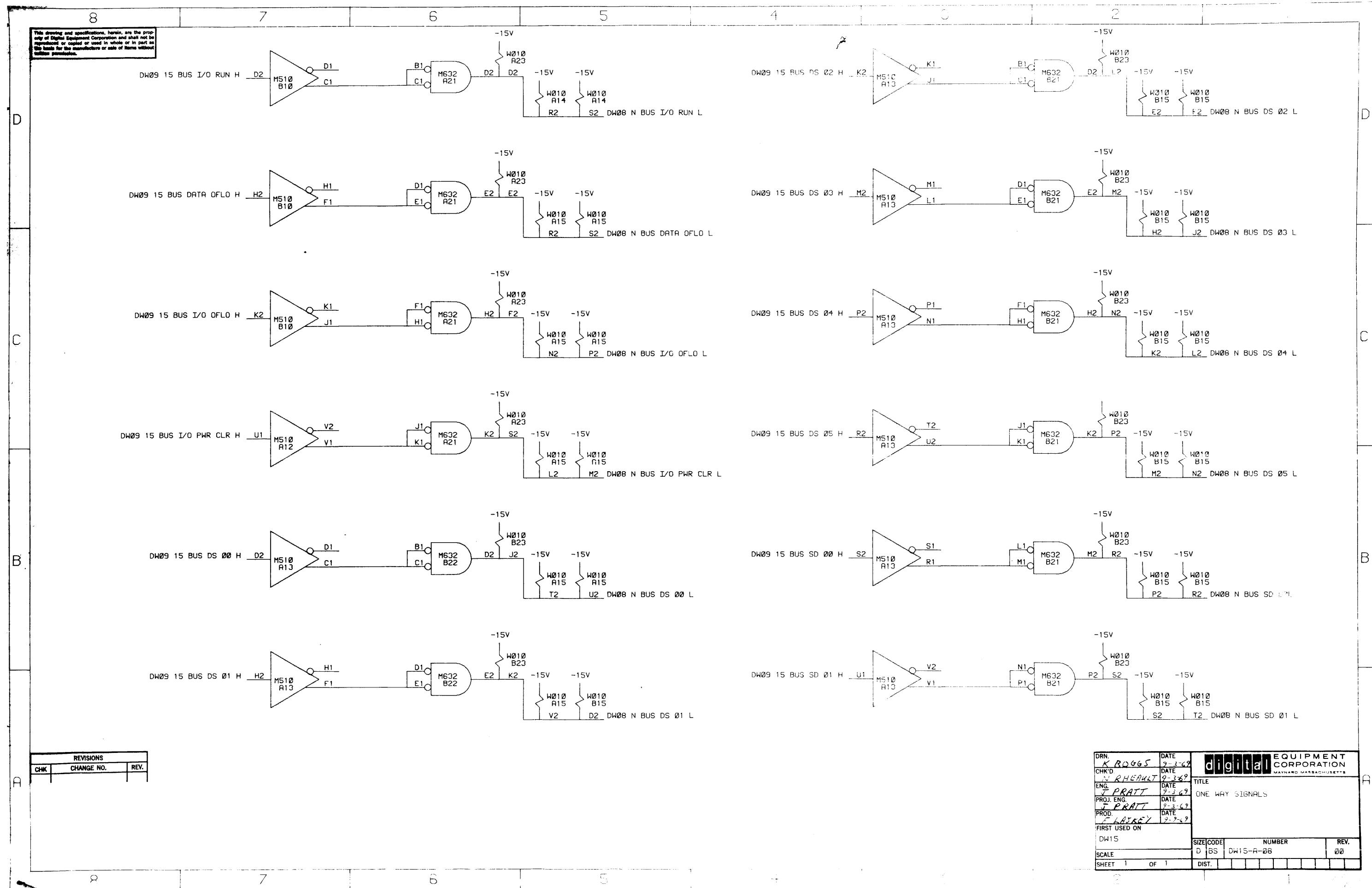
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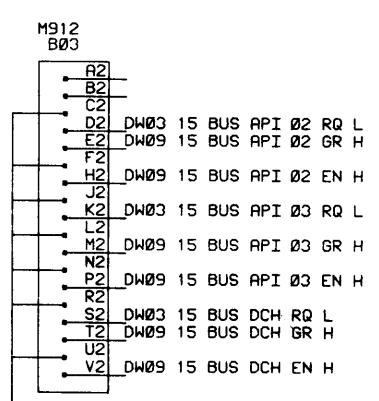
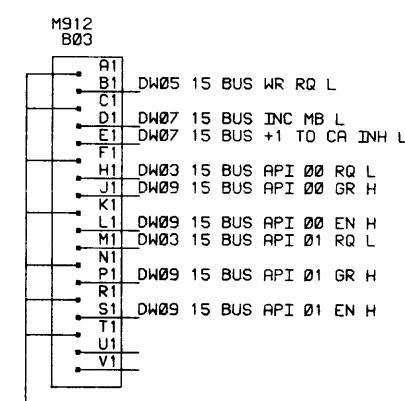
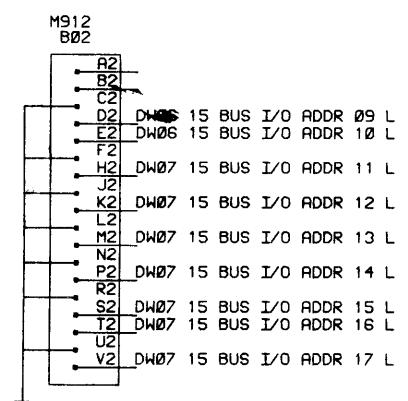
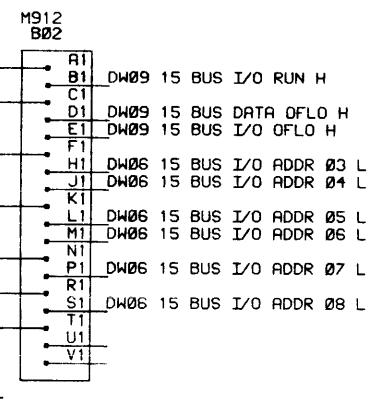
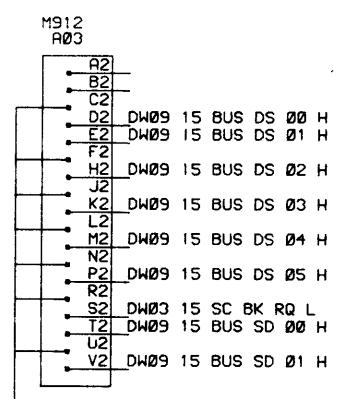
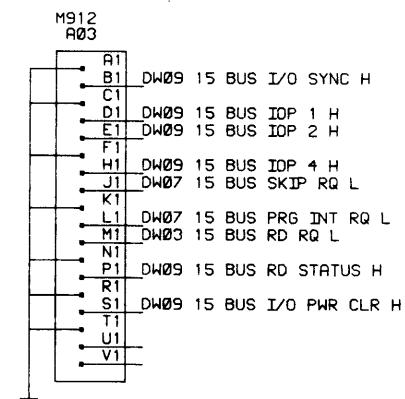
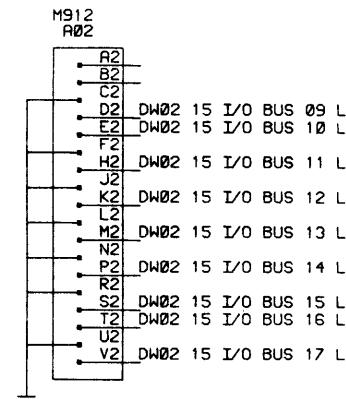
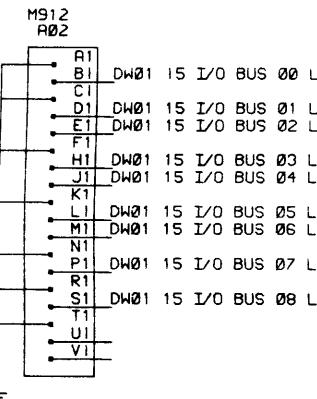
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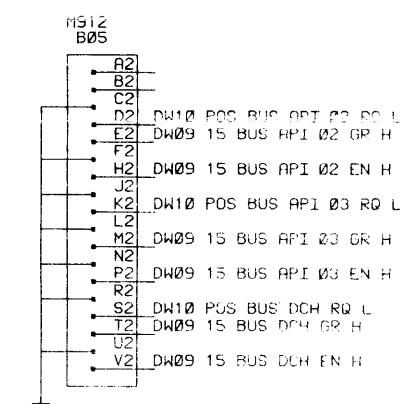
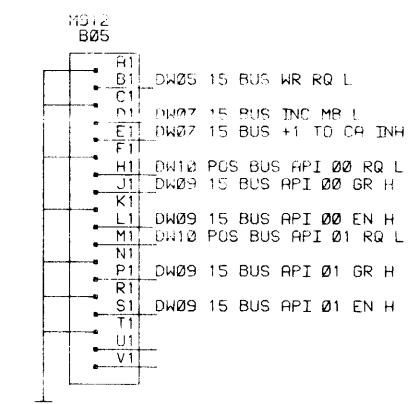
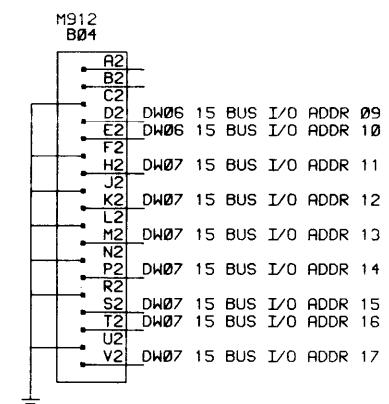
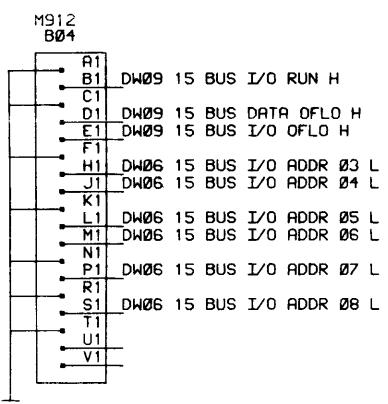
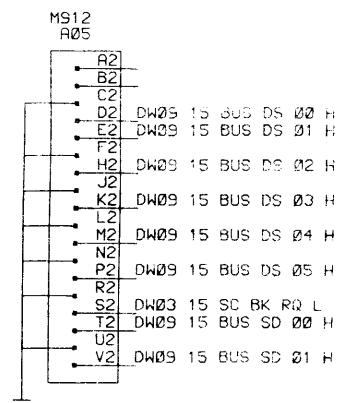
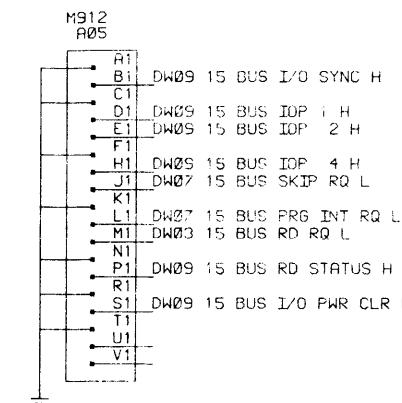
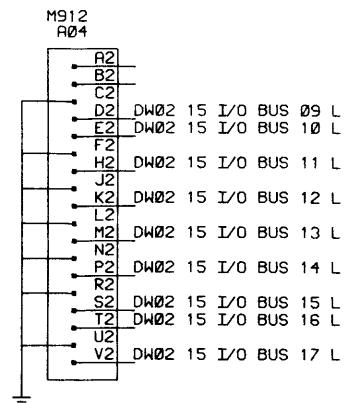
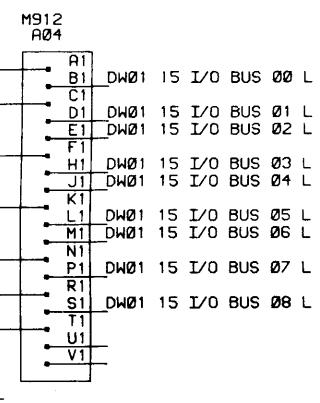
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN. <i>K ROGGS</i>	DATE 9-3-69	EQUIPMENT CORPORATION		
CHK'D. <i>N RHEAULT</i>	DATE 9-3-69	digital		
ENG. <i>J PRATT</i>	DATE 9-3-69	MAYNARD, MASSACHUSETTS		
PROJ. ENG. <i>J PRATT</i>	DATE 9-3-69	TITLE POSITIVE INPUT CABLES		
PROD. <i>F LASKEY</i>	DATE 9-9-69			
FIRST USED ON DW15		SIZE CODE D 1 BS	NUMBER DW15-A-03	REV. 00
SCALE 1 OF 1		DIST.		

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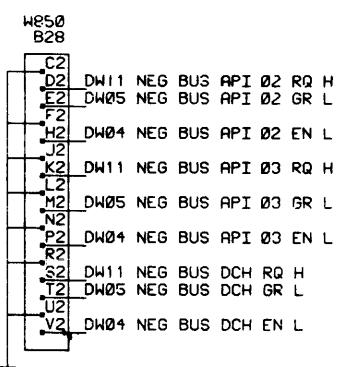
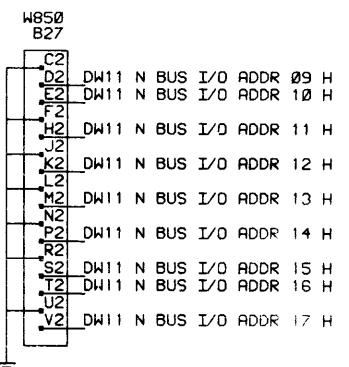
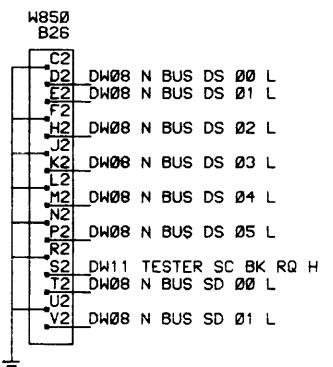
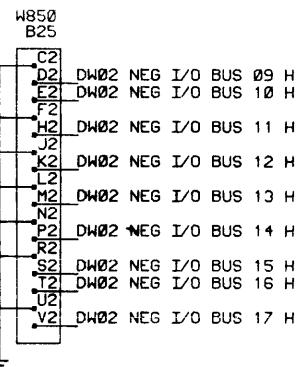
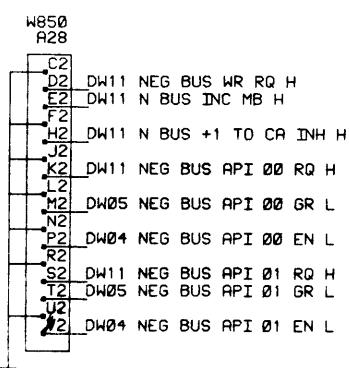
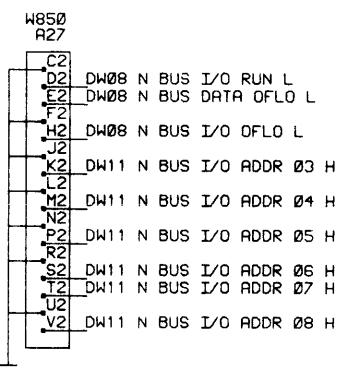
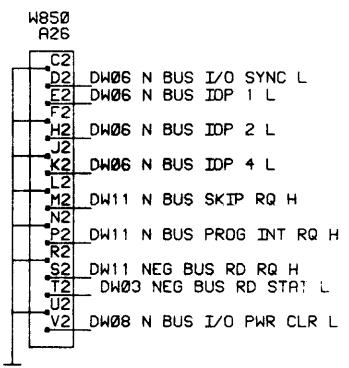
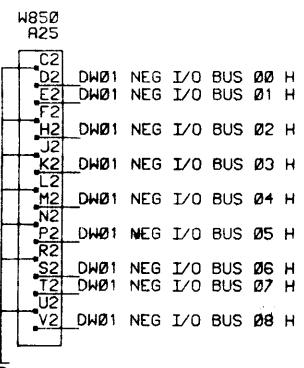


REVISIONS		
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DRN: KUGGS	DATE: 9-3-69
CHKD: N RHEA	DATE: 9-3-69
ENG: Y PRATT	DATE: 9-3-69
PROJ ENG: Y PRATT	DATE: 9-3-69
PROD: F LASKEY	DATE: 9-3-69
FIRST USED ON: DW15	
SIZE CODE: D BS	NUMBER: DW15-A-10
SCALE: 1 OF 1	REV: 00
DIST:	

digital EQUIPMENT CORPORATION
WALTHAM MASS 02254 U.S.A.
TITLE: POSITIVE BUS TRACES

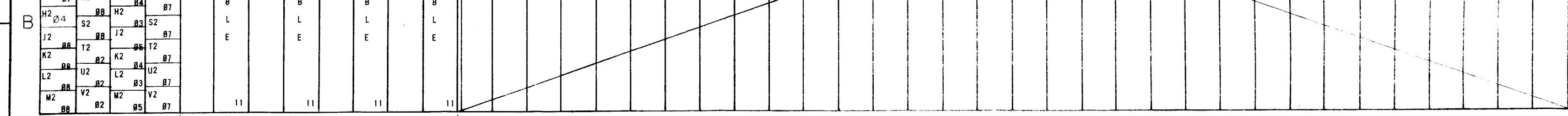
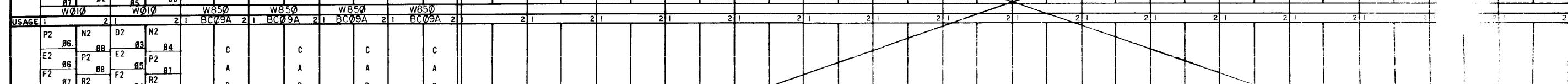
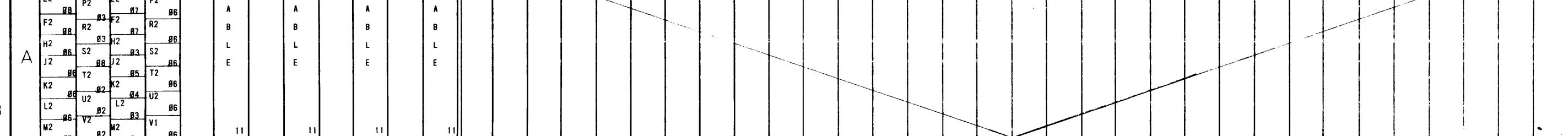
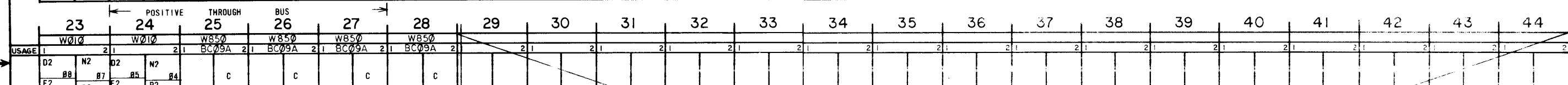
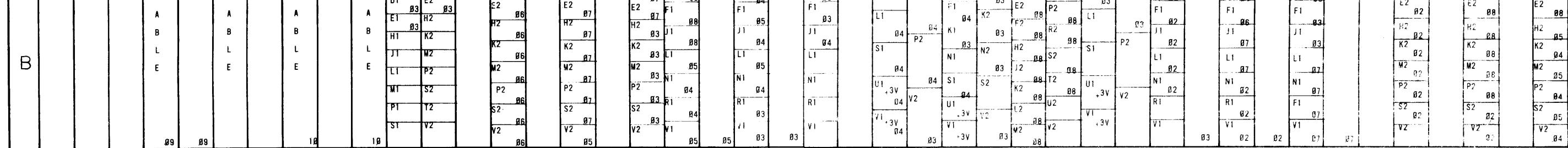
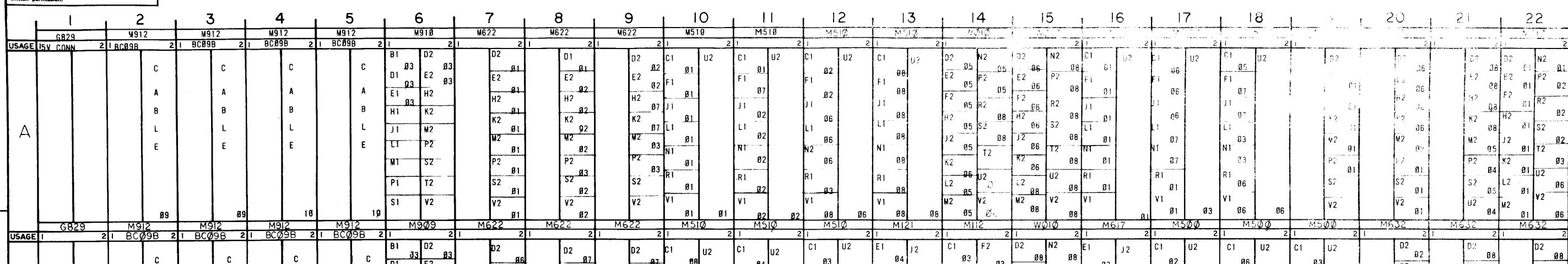
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN	DATE	9-3-69
CHK'D.	DATE	9-1-69
N RHEAULT	DATE	
ENG.	DATE	
J PRATT	DATE	9-3-69
PROJ. ENG.	DATE	9-3-69
F LASKEY	DATE	9-9-69
FIRST USED ON		
DW15	SIZE CODE	NUMBER
SCALE	D BS	DW15-A-11
SHEET 1 OF 1	DIST.	REV. 00

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REVISIONS	CHNG NO.	REV.
T G	DW15A-00005	C
T G	2/21/70	
REDRAWN & REVISED		
PRATO		
<i>[Signature]</i>	DW15A-00005	C
	P. C. C.	
	E. S.	
	J. L.	
	Z.	

FIRST USED ON OPTION / MODEL CDP-15		DO NOT SCALE DRAWING		DRN	DATE	digital EQUIPMENT CORPORATION MANAGED MASSA INCITS	
		UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		CHK D.	DATE		
		TOLERANCES		A	DATE		
		DECIMALS FRACTIONS ANGLES. .000 .001 .04 .030		ENG	DATE		
		FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		PROJ. ENG	DATE		
		MATERIAL -/-		PROD.	DATE		
		NEXT HIGHER ASSY A-ML-DW15-A					
FINISH		SCALE -/-		SIZE CODE	NUMBER	REV	
		SHEET -/- OF -/- DIST -/-		DIMU	DW15-A-12	D	