

GE-PAC* 30
CONTROL COMPUTER

**MAINTENANCE
MANUAL
30-2
VOLUME 2**

GENERAL  ELECTRIC

GE-PAC 30
CONTROL COMPUTER

**MAINTENANCE
MANUAL**

**30-2
VOLUME 2**

GENERAL  ELECTRIC

MODEL 30-2 MAINTENANCE MANUAL

1. INTRODUCTION

This Volume provides the drawings required to install, operate and maintain the Model 30-2. In addition, installation instructions are provided in this Volume.

2. INSTALLATION PROCEDURE

GENERAL ELECTRIC offers Installation service for the Model 30-2 System at its destination at published rates. To avail yourself of this service, contact your local GENERAL ELECTRIC representative when the system arrives. GENERAL ELECTRIC recommends that all systems be installed by our field service personnel. If GENERAL ELECTRIC installation service is not desired the following procedure should be followed.

CAUTION

To avoid damage to the Model 30-2 or its peripherals, read the following procedure before unpacking, installing, or applying power to the system.

1. Carefully remove each component from its carton or crate, observing any special unpacking instructions included with the component.

CAUTION

If a teletypewriter is included with the system, it must be gripped underneath the main part of its frame. The tape reader must not be used as a grip; it will not support the weight of the teletypewriter.

2. Inspect all components for physical damage.
3. If the system is to be rack mounted, secure the components in the rack. Refer to Sheet 1 of Drawing 70B113025 for mounting information.
4. If the system is received from GENERAL ELECTRIC already mounted in a cabinet or a rack, simply check to assure that the components are securely fastened.
5. If the system was shipped already mounted in a rack or cabinet, it is fully wired. Check that all terminals and connectors are secured properly, and skip steps 6 through 9.

6. If a Display Panel is included with the system, connect the cable to the appropriate positions on the Display Controller mother-board and location 40 on the Control 2 mother-board. (See Sheet 1 of Drawing 70B113025). Connect the power terminals to TB26 on the rear of the card file as shown on sheet 2 of Drawing 70B113025.

CAUTION

The wire color coding may vary on the TB26 terminals, i.e. a blue wire and a gray wire connected to the same terminal. To avoid damaging the equipment, rely on the terminals designations, not wire color when connecting the cables.

7. Connect the power supply cable to TB26 as shown on Sheet 2 of Drawing 70B113025.
8. Connect the power supply cable to TB4 and TB5 on the power supply as shown on sheet 3 of Drawing 70B113025.
9. Connect the AC power cable to TB1 on the power supply as shown on sheet 3 of Drawing 70A113025.
10. Use an ohmmeter to check for shorts between supply voltage terminals on the bus bar, and from the terminals to ground.
11. Assuming that the checks in Step 10 are satisfactory, apply power to the unit. The Model 30-2 Test Program supplied with each system may now be run to check the system's performance.

3. DRAWING INDEX

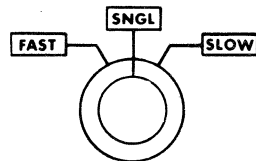
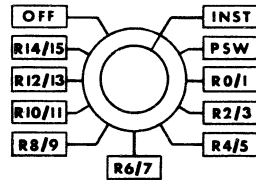
The following index lists the drawings provided in this basic manual. Note that additional drawings which further describe a particular system may be added at the end of the manual. The basic drawings are bound into the manual in the order listed in the following index.

<u>DRAWING INDEX</u>	<u>DRAWING NUMBER</u>
Display Panel Layout	NONE (REF. DWG)
30-2 Installation Specification	70B113025
Power Cable Wiring Diagram (Desk Top Cabinet)	70B113050
Power Cable Wiring Diagram (Systems Cabinet w/1 Expansion)	70B113052
Power Cable Wiring Diagram (Systems Cabinet w/2 or 3 Expansions)	70B113051
Mother-Board Information Drawing	70B113026
General Purpose Mother-Board Layout	NONE (REF. DWG)
Control and Display Cable Wiring	70C112550

<u>Drawing Title</u>	<u>Drawing Number</u>
emory Standard Interface	70B113000 (Sheets 0A, 1 Thru 7)
eletypewriter Interface functional Schematics	70B113002 (Sheets 0A, 1 Thru 12)
isplay Controller functional Schematics	70B113003 (Sheets 0A, 1 Thru 9)
ead Only Memory Switch	70B113004 (Sheets 0A, 1 Thru 9)
OM Transformer	70B113005 (Sheets 0A, 1 Thru 5)
ROM Transformer	70B113006 (Sheets 0A, 1 Thru 7)
OM Interface	70B113007 (Sheets 0A, 1 Thru 7)
rocessor Functional Schematics 30-2	70B113008 Sheets 0A, 0B, 1 Thru 31)
096 - 16 Bit Memory Block	70B113009 (Sheets 0A, 1 Thru 27)
emory Parity and Protect	70B113010 Sheets 0A, 1 Thru 8)
endor Power Supply Drawings	70B113065 (Sheets 1 Through 7)
rawing Number Conversion	None (Ref. Dwg.)

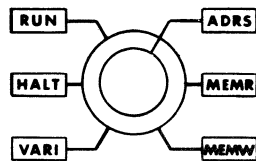
30-2 ONLY

REGISTER DISPLAY

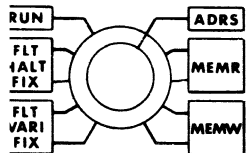


SPEED CONTROL

MODE CONTROL



MODE CONTROL



30-2 ONLY

RO THRU R14	S	CHARACTERISTIC	FRACTION
-------------	---	----------------	----------

INSTRUCTION	OPERATION CODE	RI/MI	R2/X2
	ADDRESS		D F H B

PROGRAM STATUS WORD	STATUS	CONDITION CODE
	INSTRUCTION ADDRESS	

RO THRU R14	S	INTEGER
R1 THRU R15	S	INTEGER

MEMORY READ/WRITE	ADDRESS
	DATA

DISPLAY 1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
-----------	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

DISPLAY 2	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
-----------	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

EXECUTE	POWER
INITIALIZE	

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

GE-PAC 30

GENERAL ELECTRIC

GE-PAC 30 OPERATORS CONSOLE

PHOENIX ARIZONA

INSTALLATION SPECIFICATION

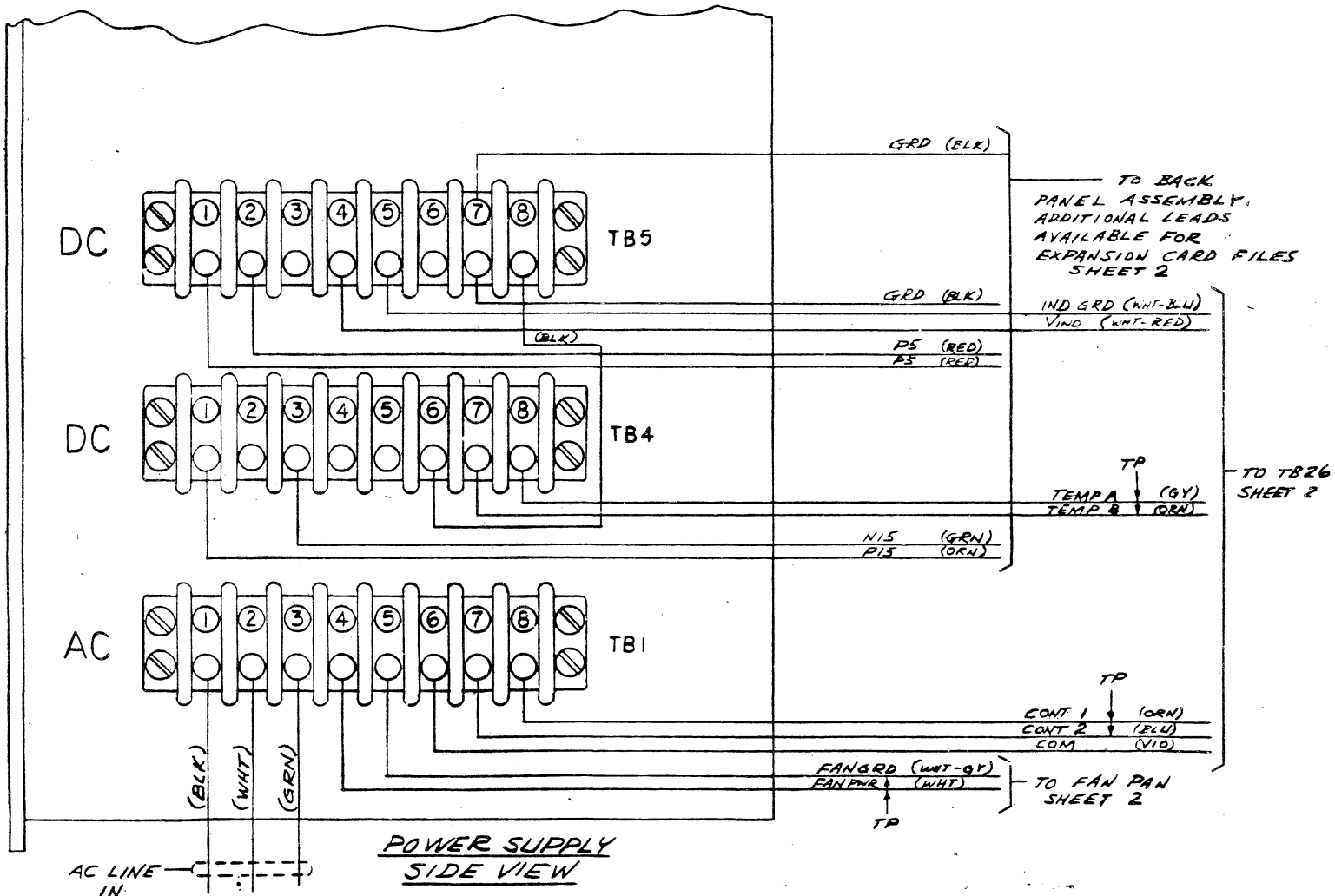
(3-109 R02 B12)

REISSUED							
C-1001167							

REV.	C	Issued
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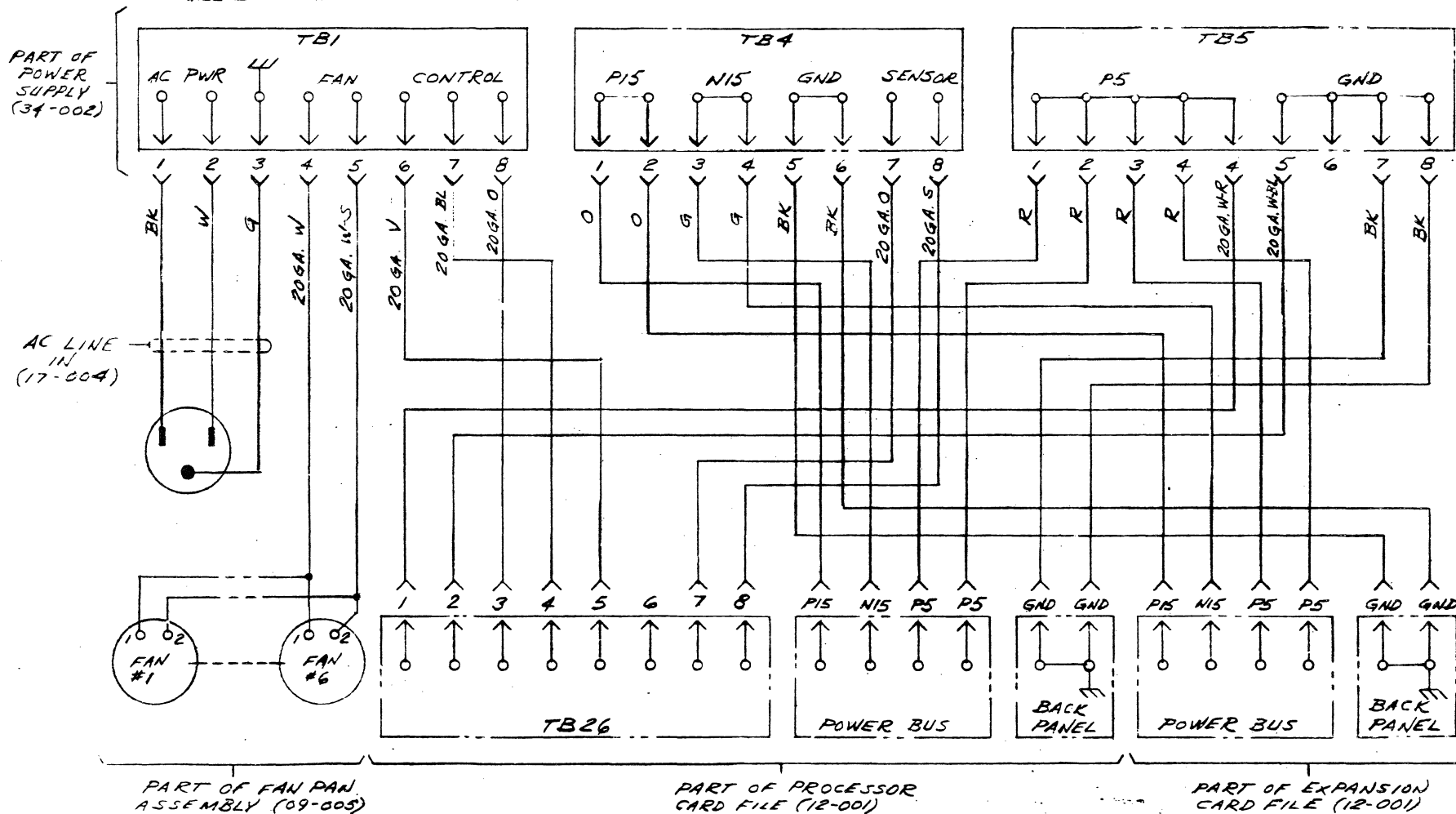
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PRINTS TO: K7-20		
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DIST KT-06	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE CABLE WIRING DIAGRAM POWER-SYSTEM CABINET GE-PAC 30	DWG. NO. (17-039 B06) 70B113052 CONT. ON SHEET F SH. NO. 1
	APPLIED PRACTICES	SURFACES ✓	TOLERANCES ON MACHINED DIMENSIONS FRACTIONS DECIMALS ANGLES + - + - + -				

NOTES: 1. UNLESS OTHERWISE SPECIFIED, ALL LEADS SHALL BE 14 GA. STRANDED WIRE.



MADE BY J. W. Avey	APPROVAL E. G. White	DES. DR	ISSUED	DWG. NO. (17-039 B06) 70B113052 CONT. ON SHEET F SH. NO. 1
ISSUED July 18, 1969	July 17, 69	CNR.	REV.	

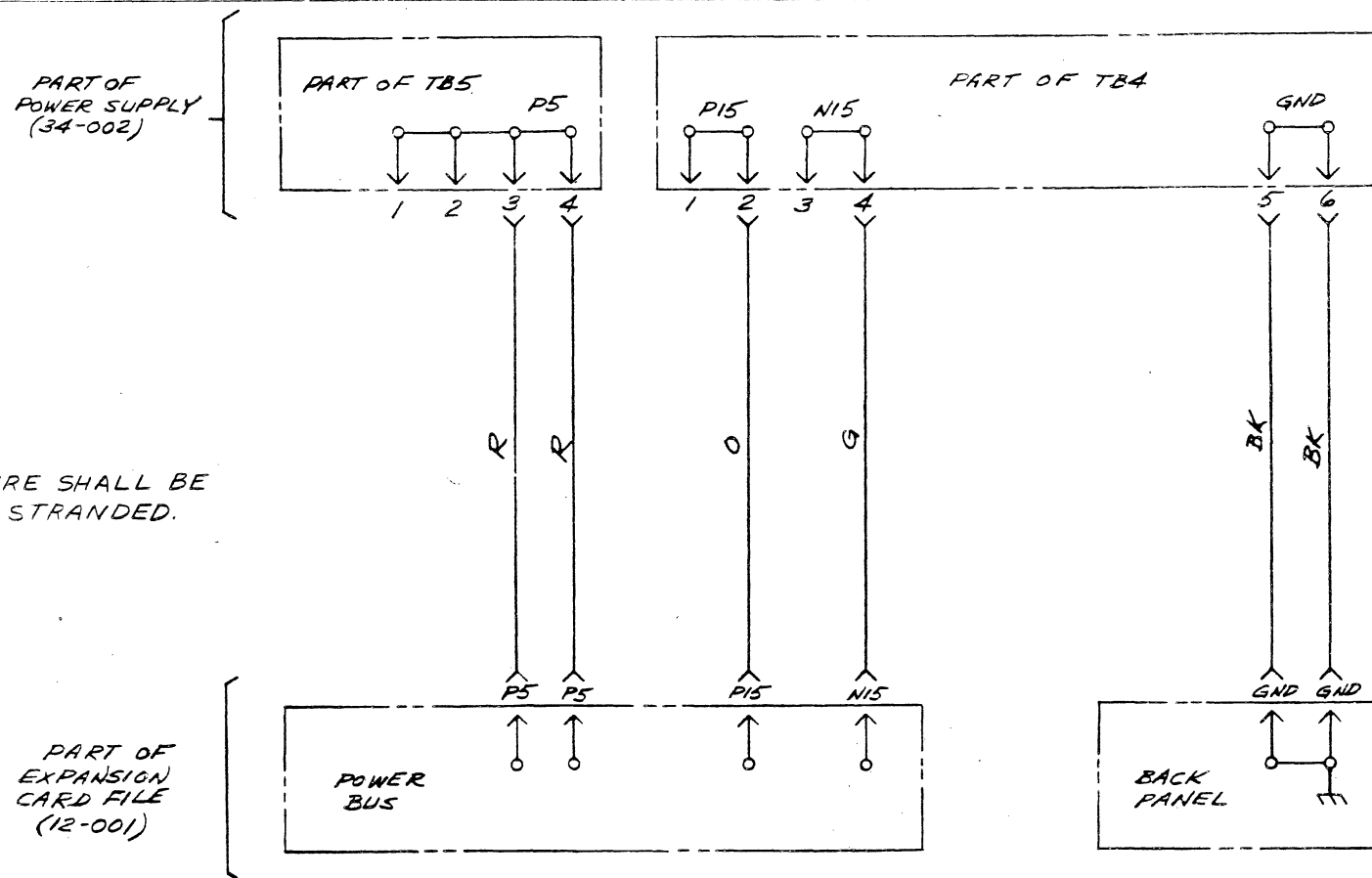
DIST. K7-06	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING —					 GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE CABLE WIRING DIAGRAM EXPANSION POWER GE-PAC 30	DWG. NO. (17-024 ROI 806) 70B113051 CONT. ON SHEET F
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS	DECIMALS	ANGLES			
			+	+	+			
			-	-	-			

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING: —				
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
		FRACTIONS	DECIMALS	ANGLES
	✓	+	+	+
		—	—	—

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE	CABLE WIRING DIAGRAM EXPANSION POWER	
FMF	GE-PAC 30	FCF

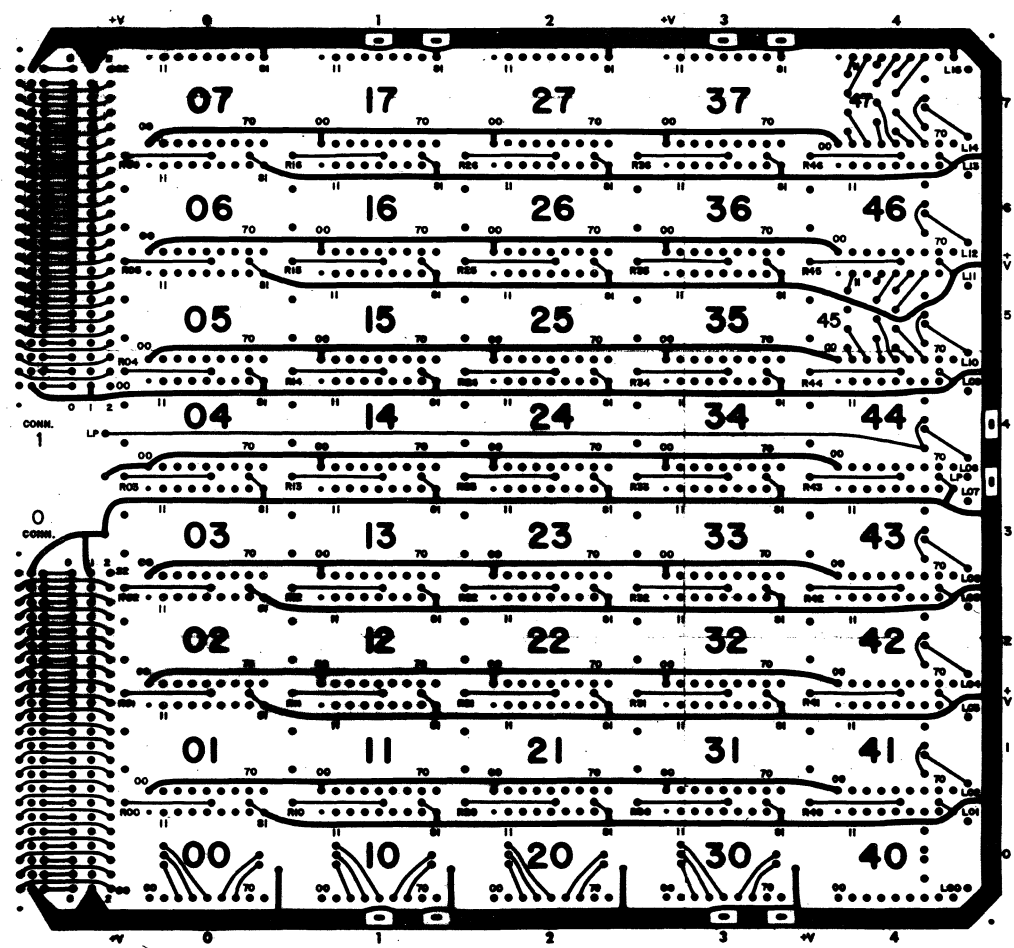
DWG. NO. (17-024 RO1 B06)
70B113051
CONT. ON SHEET F SH. NO. 1



1. ALL WIRE SHALL BE
14 GA. STRANDED.

MADE BY R. R. Taylor, JUNE 27, 1969		APPROVAL R. R. Taylor		DES.		REV.	MB	ISSUED										DWG. NO. (17-024 RO1 B06)
ISSUED July 18, 1969		Jul 17, 69		CHKR.	ER													70B113051
CONT ON SHEET F																	SM NO. 1	

DWG. NO. (17-024 R01 B06)
70B113C51
CONT ON SHEET F SH. NO. 1



REDUCE TO 12.000 ± .005
DANGER SIDE

REV N
SHEET NO.
DRAWN SHEET

REVISIONS	PRINTS TO

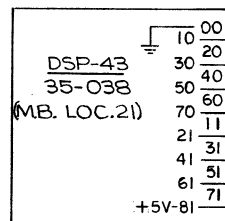
ISSUED BY: *Donna E. Hertz* JUN 27, 1969

APPROVALS
PROCESS COMPUTER DEPT
PHOENIX, ARIZ.
REF DWG

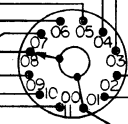
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:			
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS	
	✓	FRACTIONS	DECIMALS
		+	+
		-	-
		ANGLES	
		+	+
		-	-

TITLE
CABLE WIRING & DISPLAY ASM.
FIRST MADE FOR GE-PAC 30

A

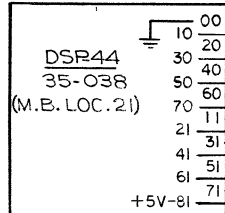


REGDSPO NSTRO P5W0 R000 R020 R040 R060
R080 R100 R120 R140 CW1 SW1

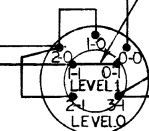


S5
REGISTER DISPLAY
(33-012)

B



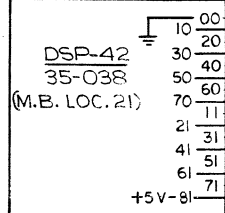
GND(BK) IND GND DAL001 DAL011
DAL021 DAL031 DAL041 DAL051
DAL061 DAL071 DENB1 CENB1
BENB1 AENB1 VIND P5(R)
10-IND GND
DO
35-038
VIND
81-+5V



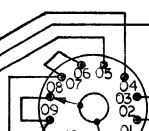
NOTE:
ADD EXTERNAL STRAP
NOT PART OF SWITCH.

S4
SPEED CONTROL
(21-004, REG-LEVEL 0)
(33-013, SW-LEVEL 1)

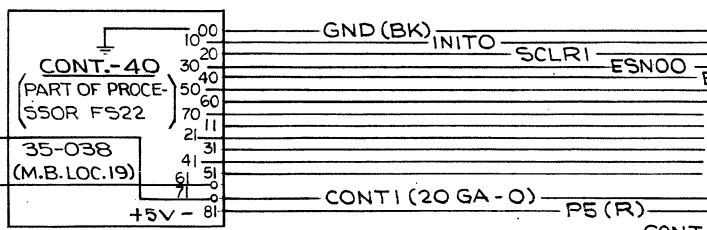
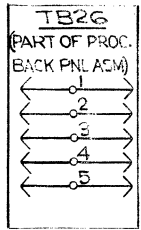
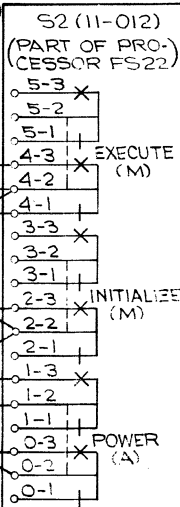
C



GND (BK)
HTFTO VRFTO RUNO VARO HLTO MRO
ADRSO MWO P5(R)



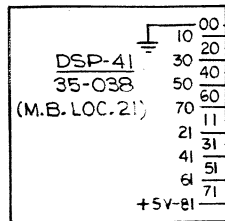
S3
MODE CONTROL
(33-012)



NO CONNECTION-WIRE TO
END OF CABLE BEYOND S5-
SLEEVE AND TIE BACK.

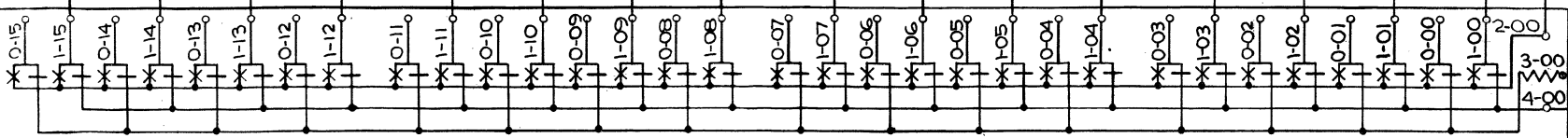
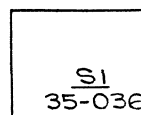
CONT 1 (20 GA - O)
CONT 2

D



GND(BK)
P5(R)

E



NOTES: 1. UNLESS OTHERWISE SPECIFIED, ALL APPARATUS IS PART OF DISPLAY CONTROLLER, FS 31. (REVISIONS)

2. UNLESS OTHERWISE SPECIFIED, ALL WIRES SHALL BE 30 GA SOLID, NEUTRAL COLOR EXCEPT WHERE NOTED.

MADE BY
JUN. 30, 1969
APPROVED
JUN 26 1970
PROC. COMP
PHOENIX
(17-005 R05 D06)
70C112550
CONT. ON SHEET
SH. NO. 1

DIST.		UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING										GENERAL ELECTRIC PROCESS COMPUTER PHOENIX		TITLE FUNCTIONAL SCHEMATIC MEMORY STANDARD INTERFACE TMFGE-PAC 30 PROJECT 1 FCF										DWG NO (FS 28) 70B113000 CONT ON SHEET 1 SH NO OA	
		APPLIED PRACTICES		SURFACES		TOLERANCES ON MACHINED DIMENSIONS		FRACTIONS		DECIMALS		ANGLES													
				√		+		+		+															

SHEET INDEX																					
CONTENTS	SHEET NO.	SHEET ISSUE																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHEET INDEX	OA	-	-	3	4																
SUPPORTING INFORMATION																					
MEMORY ADDRESS REGISTER HIGH	1	-	-	3	3																
MEMORY ADDRESS REGISTER LOW	2	-	-	3	3																
MEMORY DATA REGISTER HIGH	3	-	-	3	3																
MEMORY DATA REGISTER LOW	4	-	-	3	3																
TIMING	5	-	-	3	4																
LOAD CONTROL	6	-	-	3	3																
BACK PANEL MAP	7	-	-	3	3																
	ISSUE DATE																				

CATEGORY	PART NO.
MOTHER BOARD MEMORY STANDARD INTERFACE	32-044R02

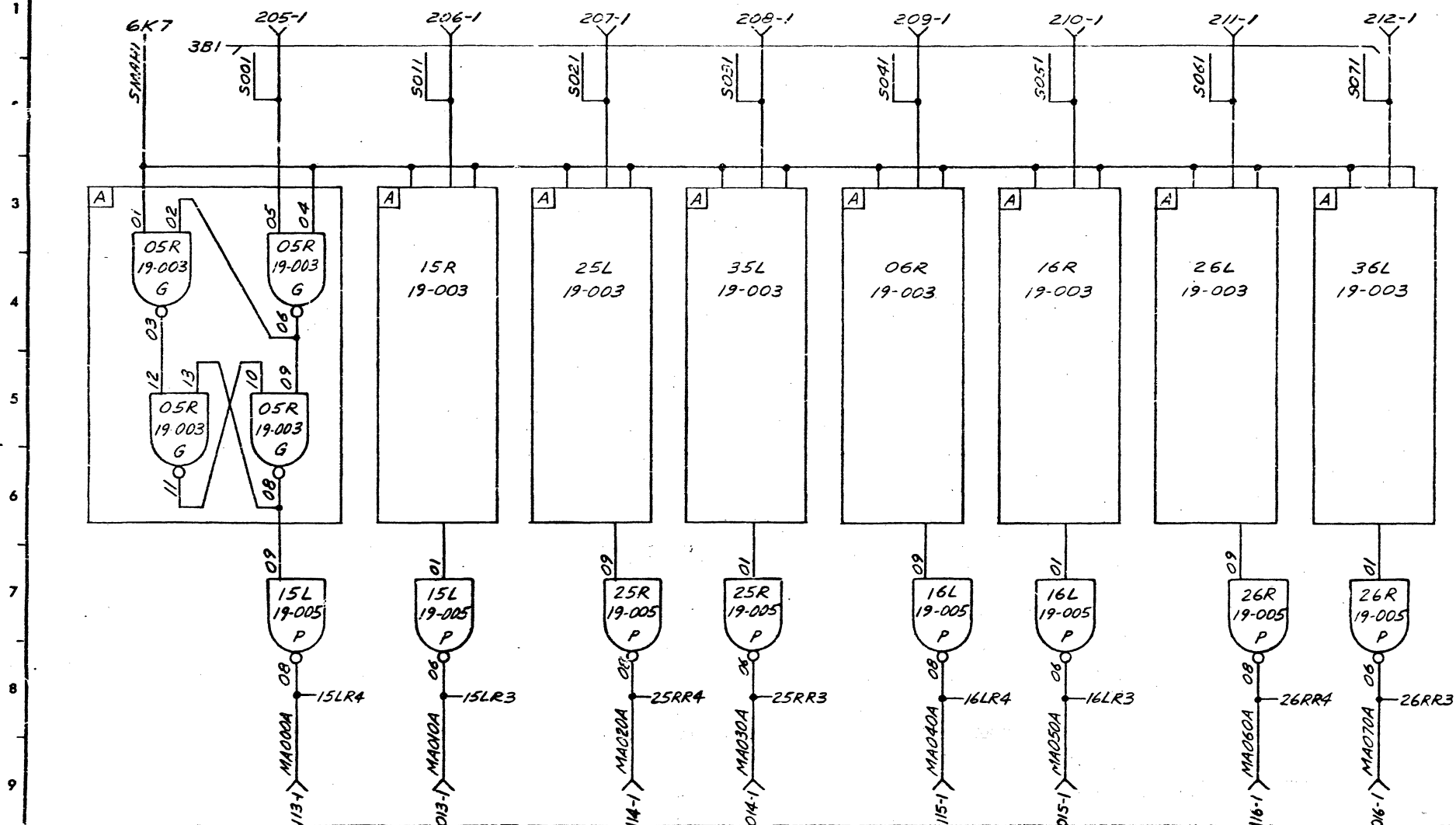
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1. CHANGES ON THIS DRAWING SHALL REQUIRE ONLY THE REISSUE OF SHEETS AFFECTED.
2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.

MADE BY C. Ellsworth JUNE 17, '69		APPROVAL E. G. White June 26, 69		DES.	CHKR.	REV	(FS 28) 70B113000 CONT ON SHEET 1 SH NO OA									
					OR											

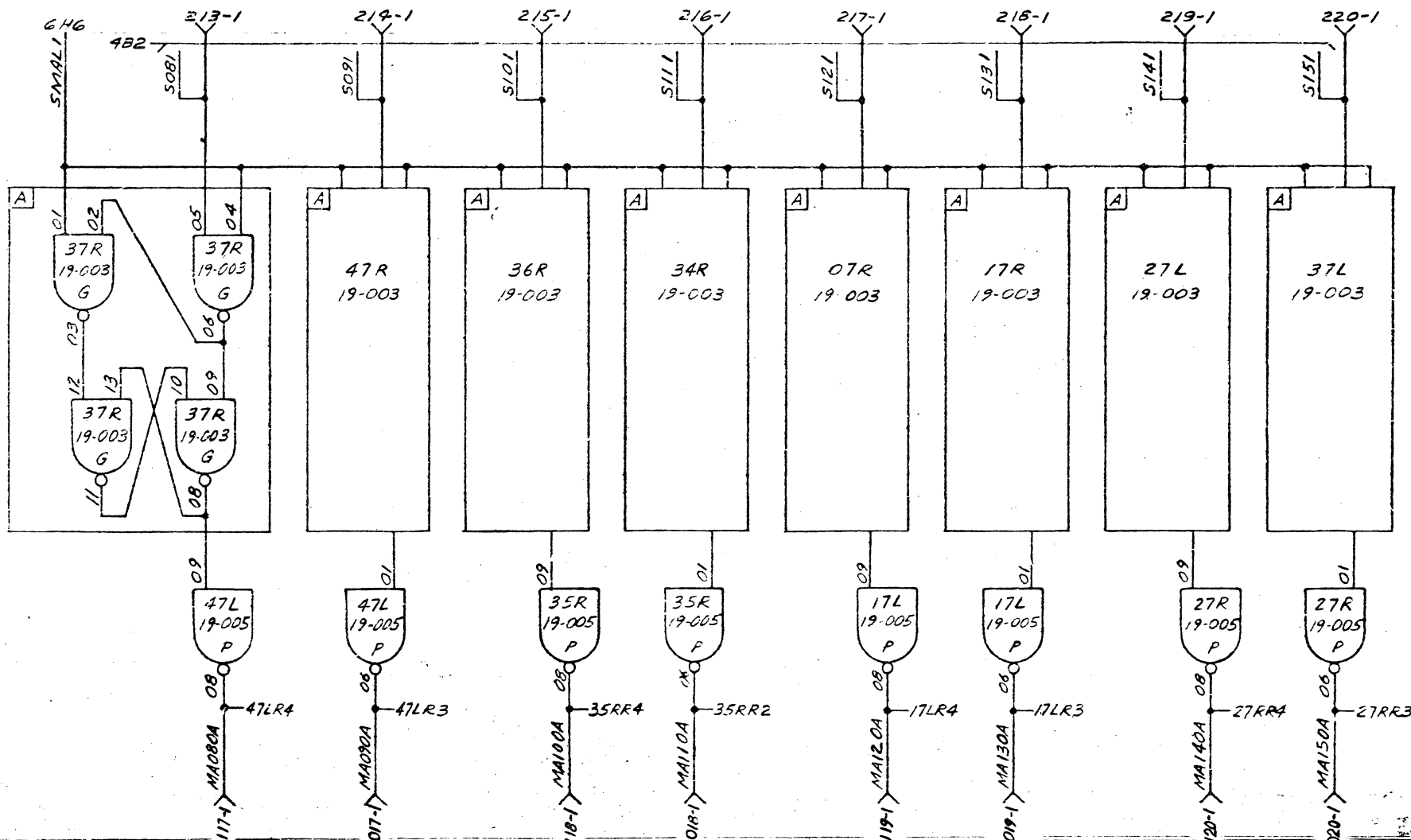
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	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
	✓	+	FRACTIONS	DECIMALS				ANGLES
CONT. ON SHEET 2 SH. NO. 1								

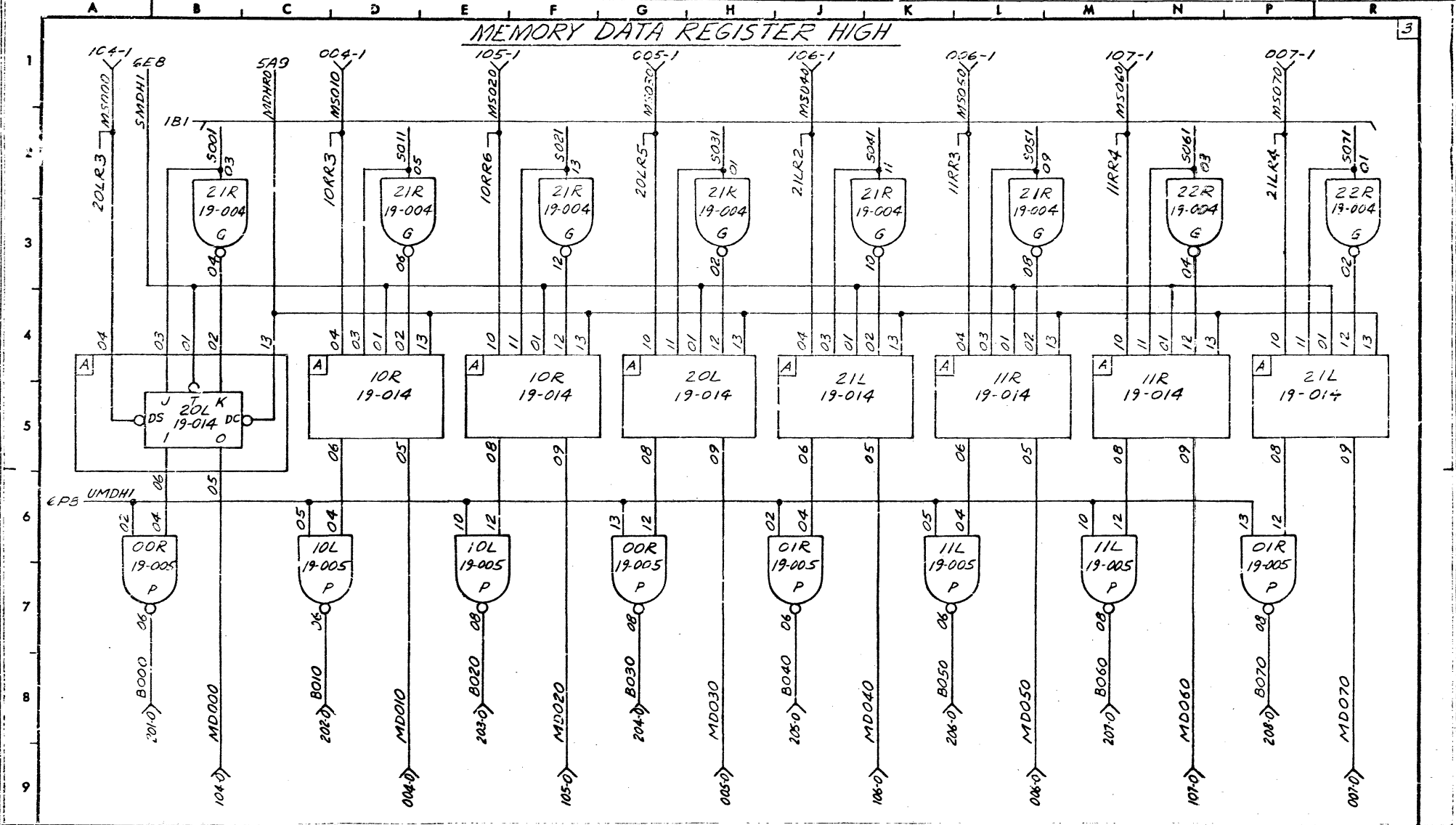
MEMORY ADDRESS REGISTER HIGH



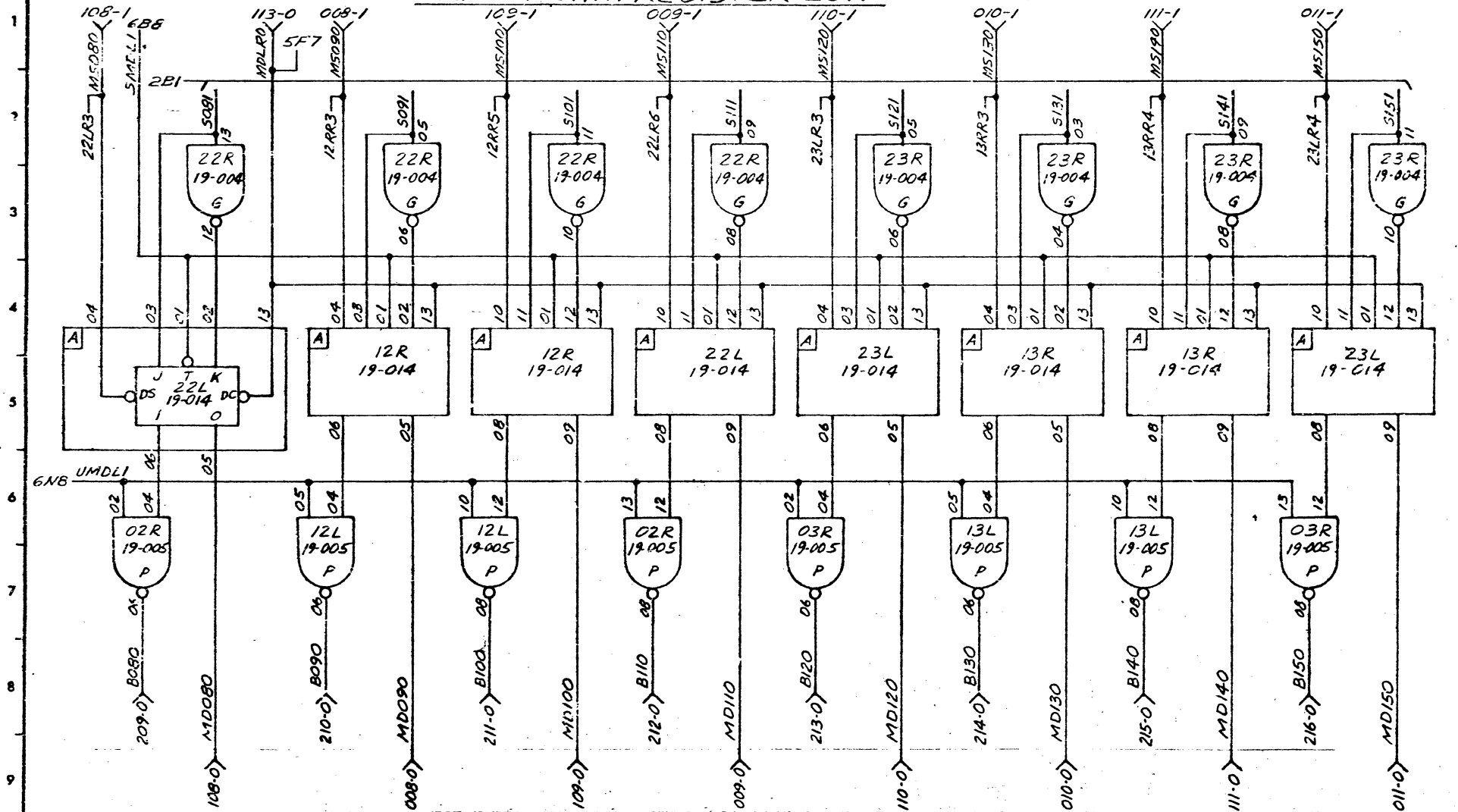
MADE BY G. Ellsworth	APPROVAL E. A. White	DES. JUL 18 1969	CHKR. DR	REV. E	DWC NO. 70B113000 (FS28)
JUL 18 1969					CONT. ON SHEET 2 SH. NO. 1

MEMORY ADDRESS REGISTER LOW





MEMORY DATA REGISTER LOW



MADE BY
G. Ellsworth JUN 17, 1969
 ISSUED
JUL 18 1969

APPROVAL
E. G. White
 June 26, 69

DES.	
CHKR	DR
REV.	E

DWG. NO. (FS 28)
70B113000
 CONT. ON SHEET 5 SH. NO. 4

MADE BY <i>G. Ellsworth</i>		APPROVAL <i>E. A. White</i>		DES.		REV.	E								DWG. NO. 70B113000
JUL. 3, 1969		June 26, 69		CHKR.											(F528) CONT ON SHEET 6 SH NO. 5
ISSUED JUL 18 1969															

DWT.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING					GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC MEMORY STANDARD INTERFACE FMF GE-PAC 30	DWG. NO. (FS28) 70B113000
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	+	+	+			CONT. ON SHEET F SH. NO. 7

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
BACK PANEL MAP															
CONN. POS.	06														
MOTH. "D"	(MSFC)														
VERT. POS.	HORIZ. POS.			HORIZ. POS.			HORIZ. POS.			HORIZ. POS.			HORIZ. POS.		
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
22		P5	GND												
21															
20	MA150A	MA140A	5151												
19	MA130A	MA120A	5141												
18	MA110A	MA100A	5131												
17	MA090A	MA080A	5121												
16	MA070A	MA060A	5111												
15	MA050A	MA040A	5101												
14	MA030A	MA020A	5091												
13	MA010A	MA000A	5081												
12			5071												
11	MS150	MS140	5061												
10	MS130	MS120	5051												
09	MS110	MS100	5041												
08	MSC90	MSC80	5031												
07	MS070	MS060	5021												
06	MS050	MS040	5011												
05	MS030	MS020	5001												
04	MSC10	MS000													
03			LMA10												
02			LMA00												
01			CWRO												
00		P5	GND												
22		P5	GND												
21	STRTO	BRO	CLOE												
20	HLFO	XRO	UMLO												
19	WRO	W50	UMDHO												
18	SCLRO	WCO	LMDLO												
17	MEDVOE	MDAVOR	LMDHO												
16	MEYIA		B150												
15	SPARC	MDHRO	B140												
14	MEVI	C.FARO	B130												
13	MDLRO		B120												
12			B110												
11	MD150	MD140	B100												
10	MD130	MD120	B090												
09	MD110	MD100	B080												
08	MD090	MD080	B070												
07	MD070	MD060	B060												
06	MD050	MD040	B050												
05	MD030	MD020	B040												
04	MD010	MD000	B030												
03	SP5	SP4	B020												
02	SP3	SP2	B010												
01	SP1	SP0	B000												
00		P5	GND												

MADE BY G. Ellsworth	JUN 17, 1969	APPROVAL E. A. White	DES. June 26, 69	CHKR. QR	E										
ISSUED JUL 18 1969															
DWG. NO. (FS28) 70B113000										CONT. ON SHEET F		SH. NO. 7			

GENERAL ELECTRIC
PROCESS COMPUTERS
PHOENIX ARIZONA

TITLE

FUNCTIONAL SCHEMATIC, TELETYPE INTERFACE

DRAWING NUMBER	70B113002	CONT.	PAGE
		0A	0
FIRST MADE FOR	GE-PAC 30 PROJECT		
(FS29)			

[illegible][illegible]

MADE BY
G. Ellsworth JUN. 17, '69
ISSUED
July 18, 1969

APPROVAL
[Signature]
 C. A. White
 June 26, 1961

REV.	B
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	B
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	B
--	---

(FS29)

DWG. NO.	70B113002	CONT.	PAGE
PRINTS TO:	K7-08		0

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING										GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC TELETYPE INTERFACE FMF GE-PAC 30	DWG. NO. (FS29) 70B113002 CONT. ON SHEET 1 SH. NO. 0A
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINE DIMENSIONS										
		✓	FRACTIONS	DECIMALS	ANGLES								

SHEET INDEX

SUPPORTING INFORMATION

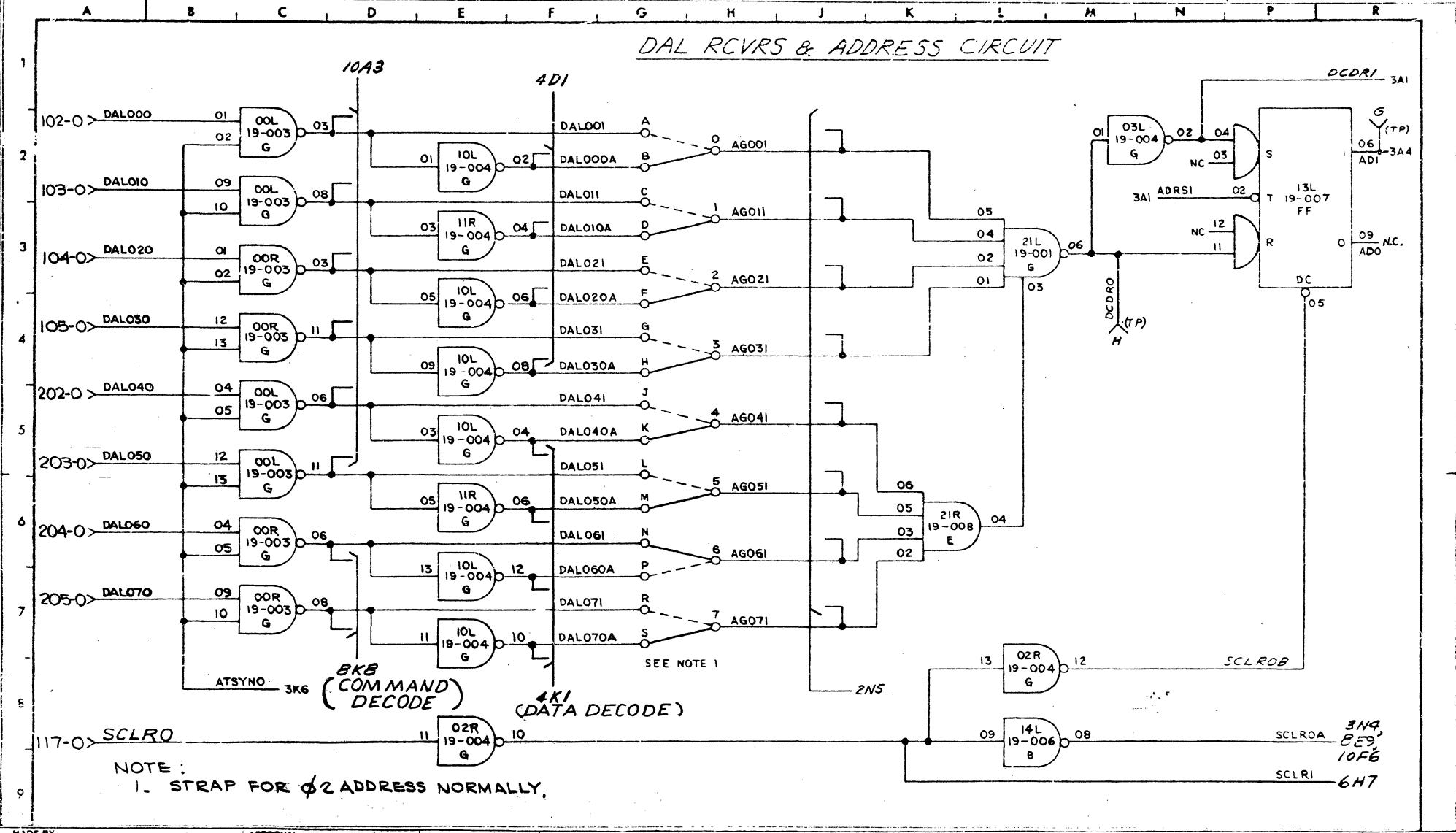
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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHEET INDEX	0A	/																			
SUPPORTING INFORMATION																					
DAL RCVR & ADDRESS CIRCUIT	1	/																			
DAL BUS DRIVERS & ACK ADDRESS GATES	2	/																			
CONT. LINE RCVR & GATES ATN/EBL CKT	3	/																			
DATA SHIFT REGISTER	4	/																			
TIMER & EDC GATES	5	/																			
CONTROL CIRCUITS	6	/																			
TTY COUPLER CIRCUITS	7	/																			
TTY POWER CONTROL	8	/																			
STATUS & DRL GATES	9	/																			
CMD GATES & FLOPS, BSY LOGIC	10	/																			
BACK PANEL MAP	11	/																			
BLOCK DIAGRAM	12	/																			

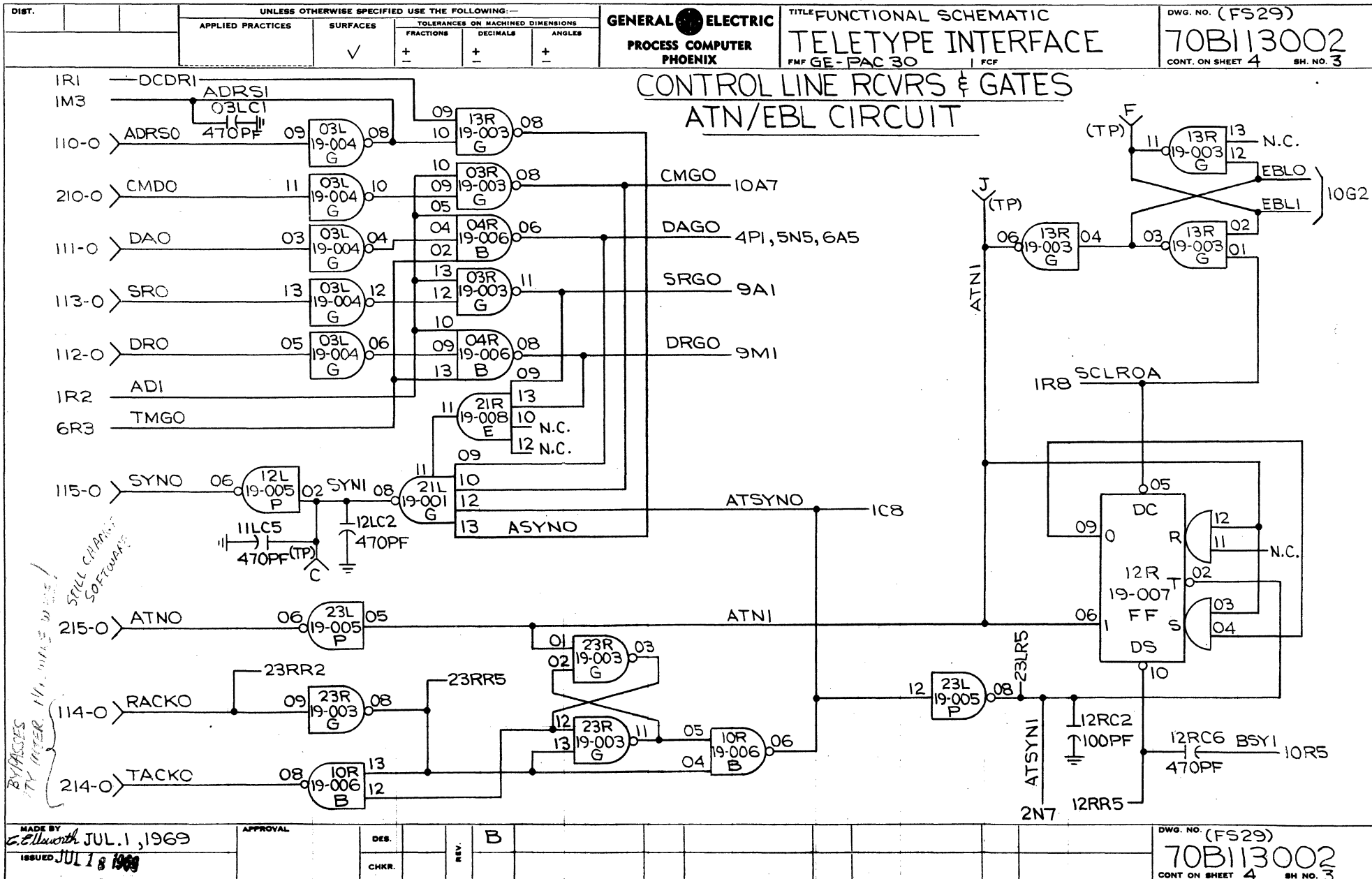
CATEGORY	PART NO.
MOTHER BOARD TTY INTERFACE:	
WITHOUT PWR CONTROL	32-062 R01 F01
WITH PWR CONTROL	32-062 R01 F02

SHEET INDEX NOTES:

1. CHANGES ON THIS DRAWING SHALL REQUIRE ONLY THE REISSUE OF SHEETS AFFECTED.
2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.

MADE BY G. Ellsworth	APPROVAL E. A. White	DES. DES.	REV. B																		
ISSUED JUN 18 1969	June 26, 69	CHKR. DR																			
DWG. NO. (FS29) 70B113002																		CONT. ON SHEET 1 SH. NO. 0A			





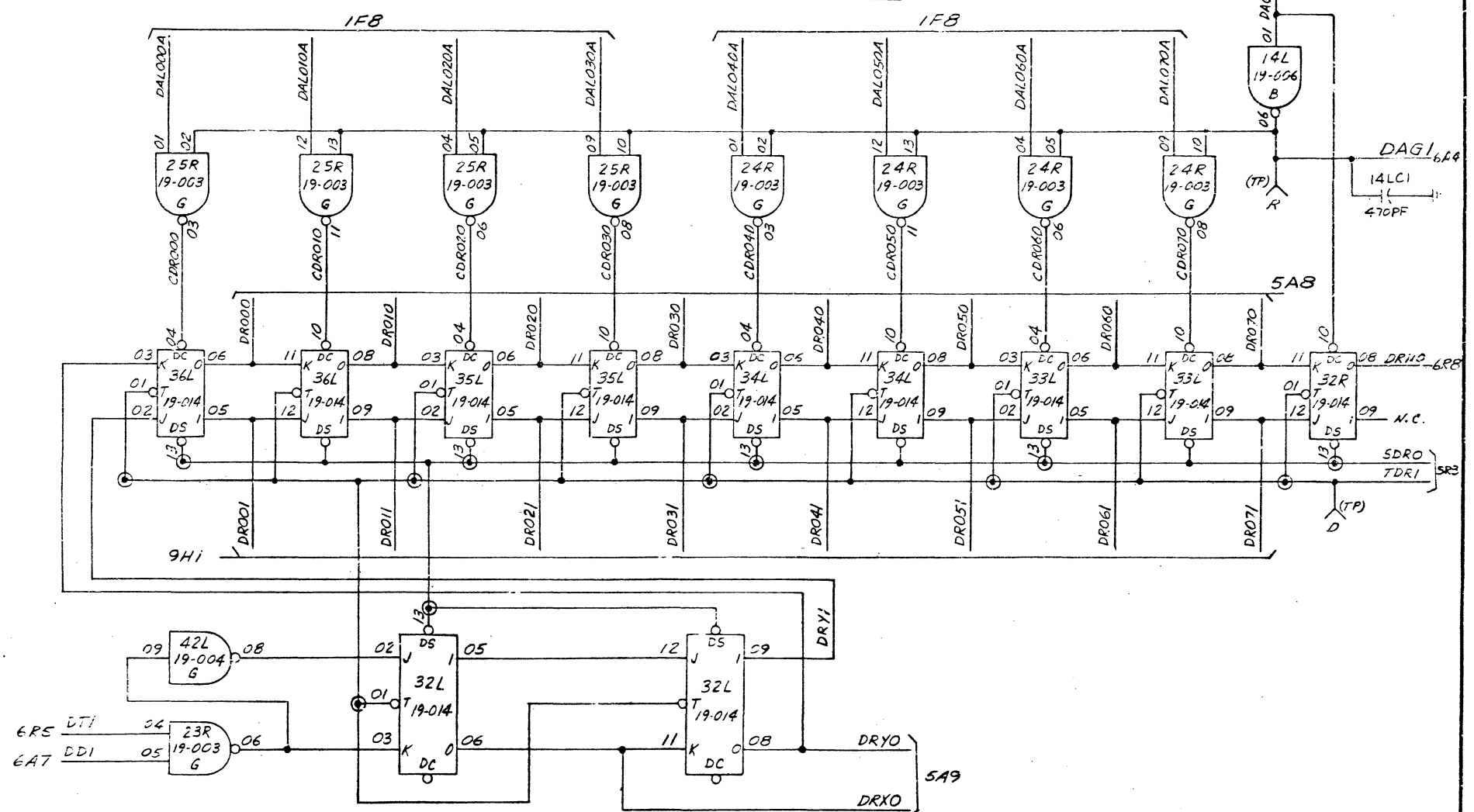
MADE BY *E. Ellsworth* JUL. 1, 1969
 ISSUED JUL 18 1969

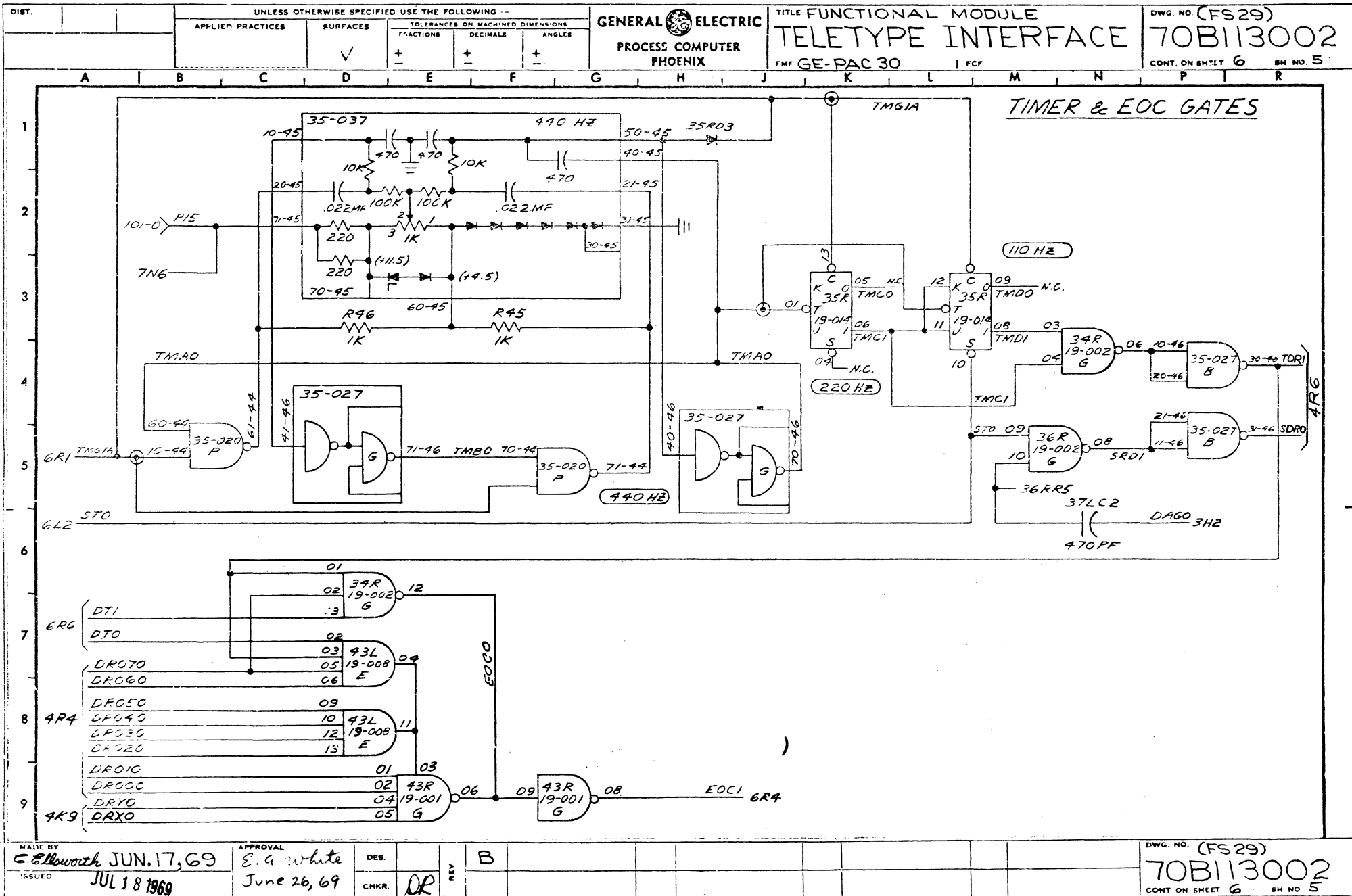
APPROVAL

DES.	REV.	B		
CHKR.				

DWG. NO. (FS29)
70B113002
 CONT. ON SHEET 4 SH. NO. 3

DATA SHIFT REGISTER





MADE BY
G. E. Newirth JUN. 17, 69
ISSUED
JUL 18 1969

APPROVAL
E. G. White
June 26, 69

DES.
CHKR. DR
REV.
B

DWG. NO. (FS29)
70B113002
CONT. ON SHEET 6 SH. NO. 5

DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

V

+

+

+

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIXTITLE FUNCTIONAL SCHEMATIC
TELETYPE INTERFACE
FMT GE-PAC 30

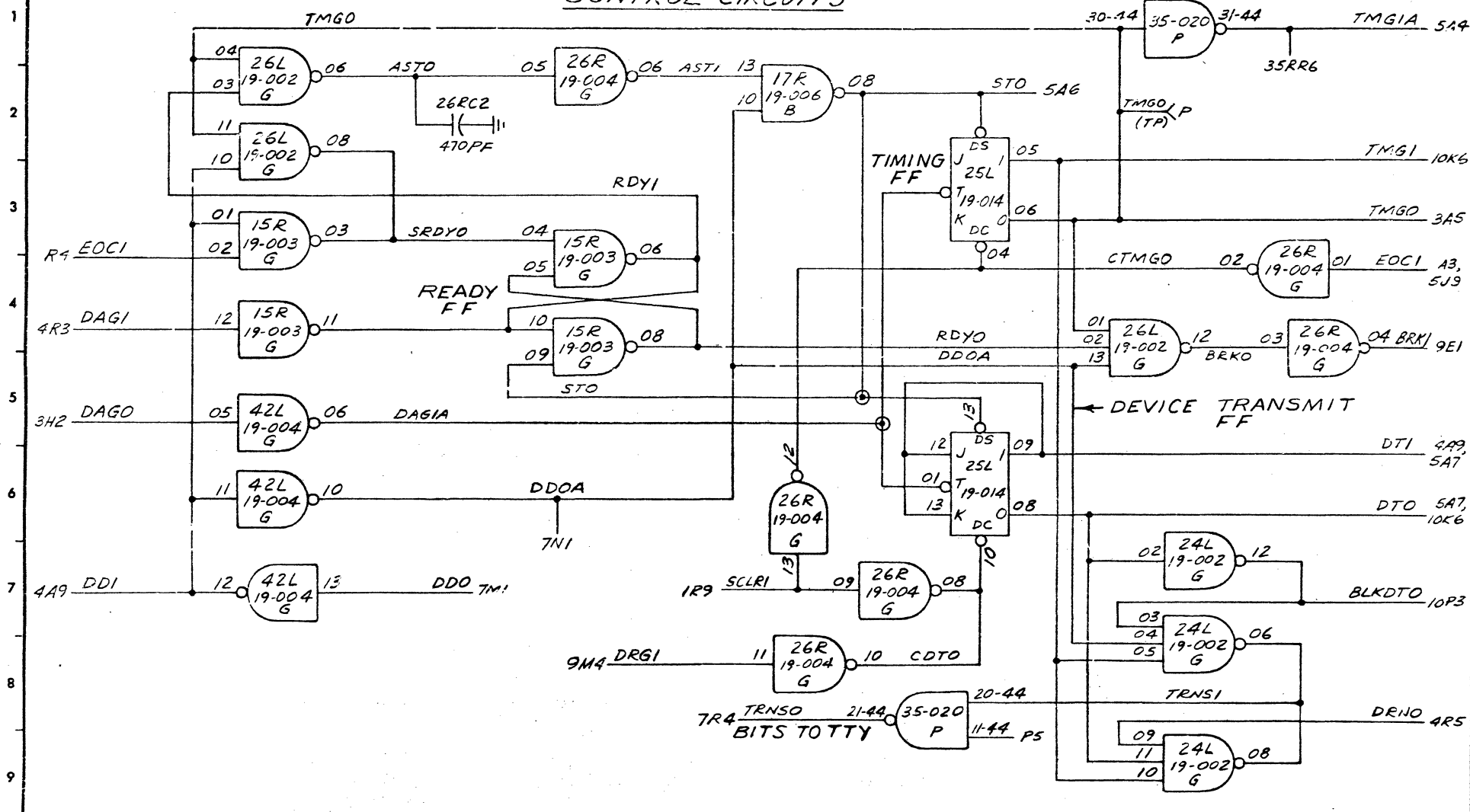
DWG. NO. (FS29)

70B113002

CONT. ON SHEET 7

SH. NO. 6

CONTROL CIRCUITS

MADE BY
G. Ellsworth JUN. 17, '69APPROVAL
E. G. White
June 26, '69

DES.

CHKR.

OR

B

DWG. NO. (FS29)

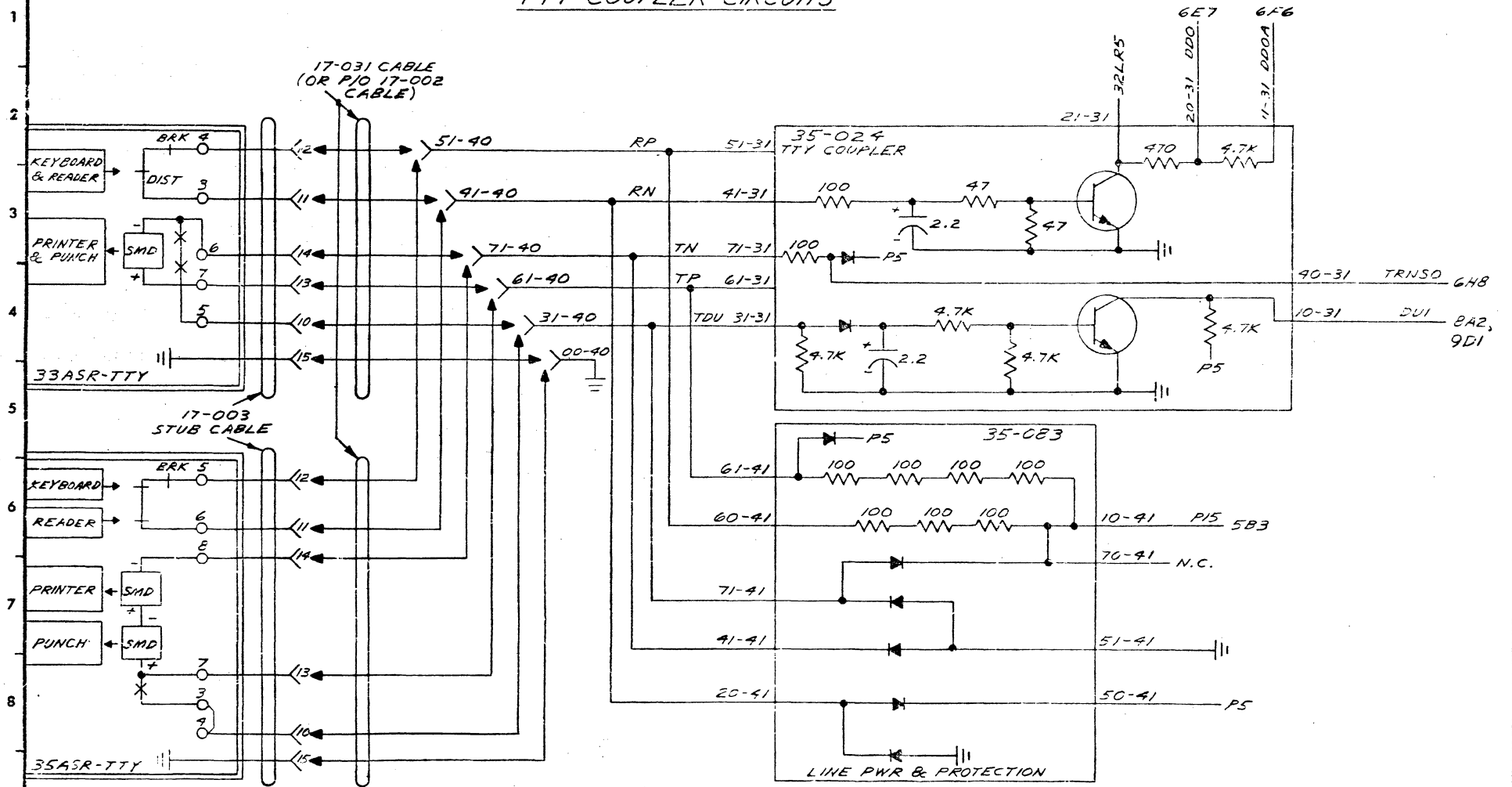
70B113002

CONT. ON SHEET 7

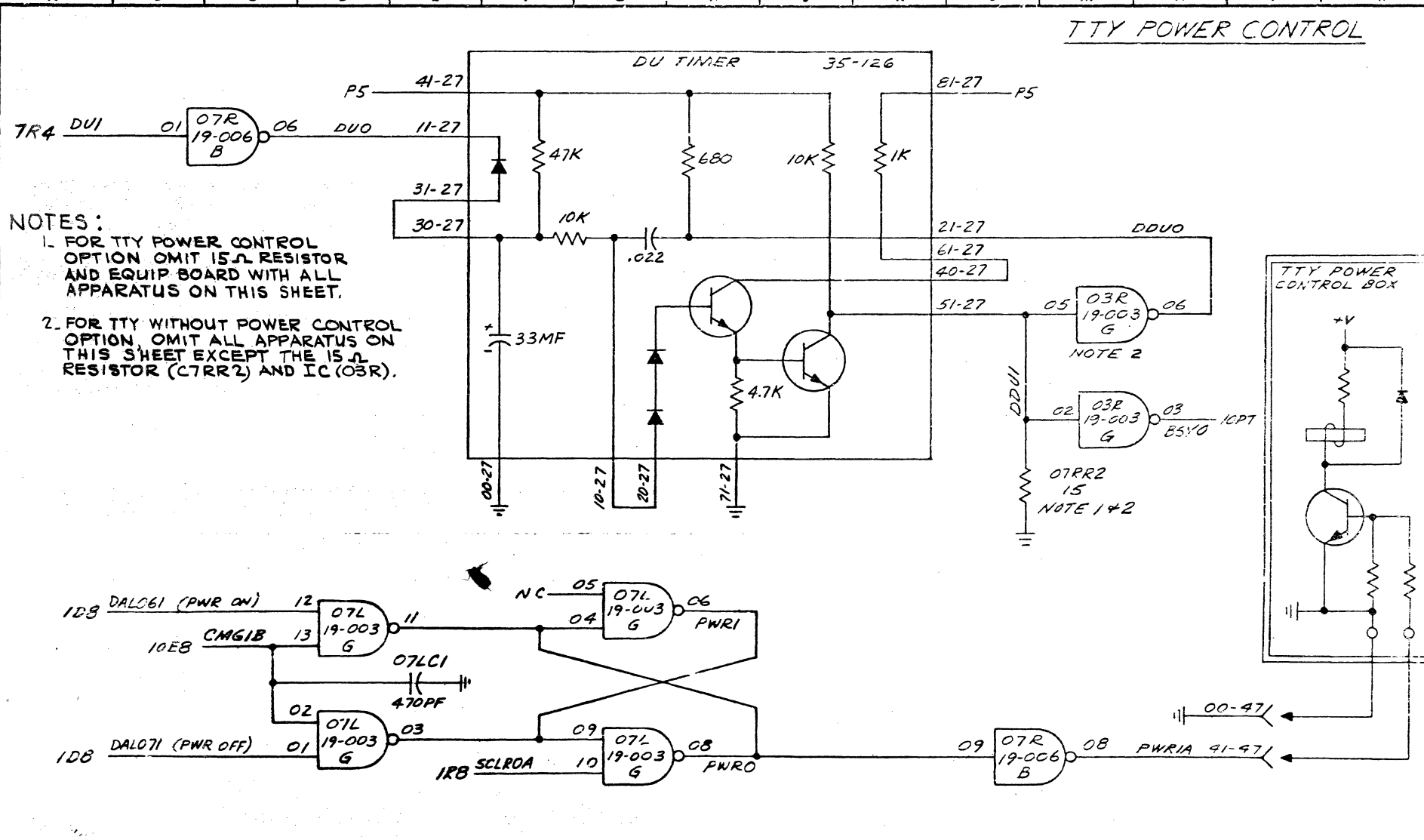
SH. NO. 6

JUL 18 1969

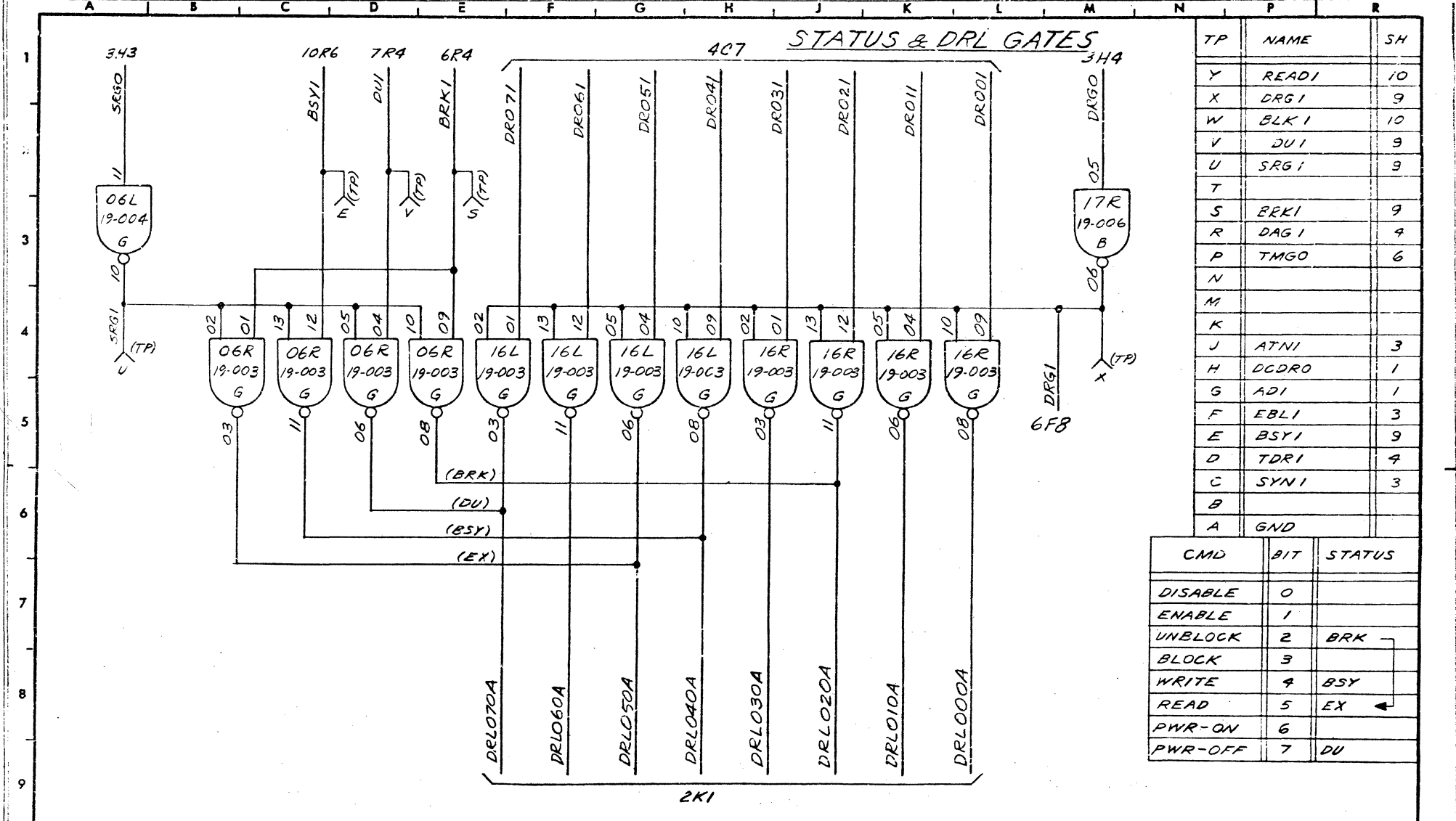
TTY COUPLER CIRCUITS



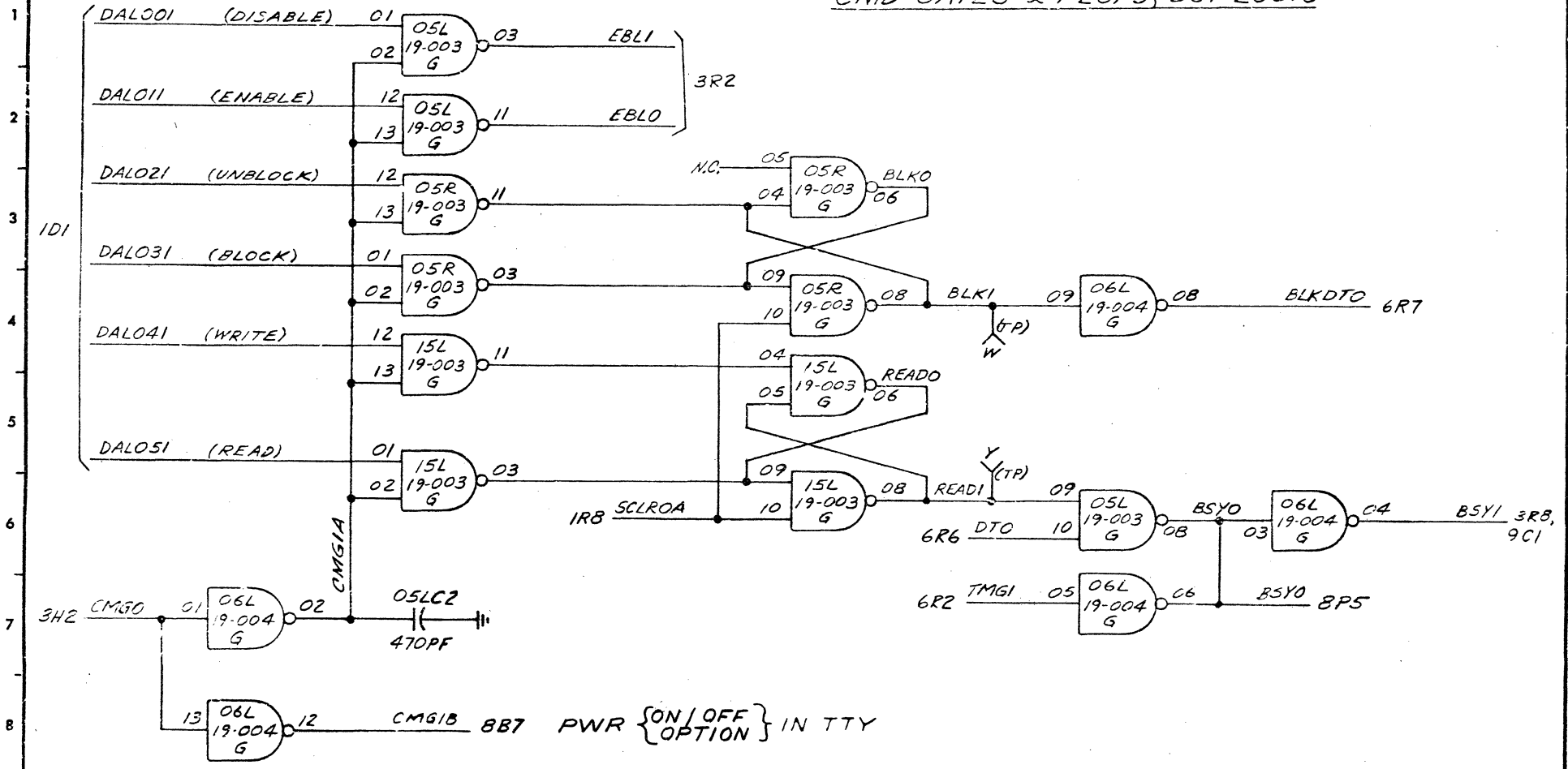
DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC TELETYPE INTERFACE FMF GE-PAC 30	DWC NO (FS 29) 70B113002
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS	DECIMALS	ANGLES		CONT. ON SHEET 9 SH NO 8



MADE BY <i>E. Ellsworth</i>	APPROVAL <i>E. A. White</i>	DES. June 26, 69	CHKR. <i>OR</i>	REV. B	DWG. NO. 70B113002
ISSUED JUL 18 1969					CONT. ON SHEET 9 SH NO 8

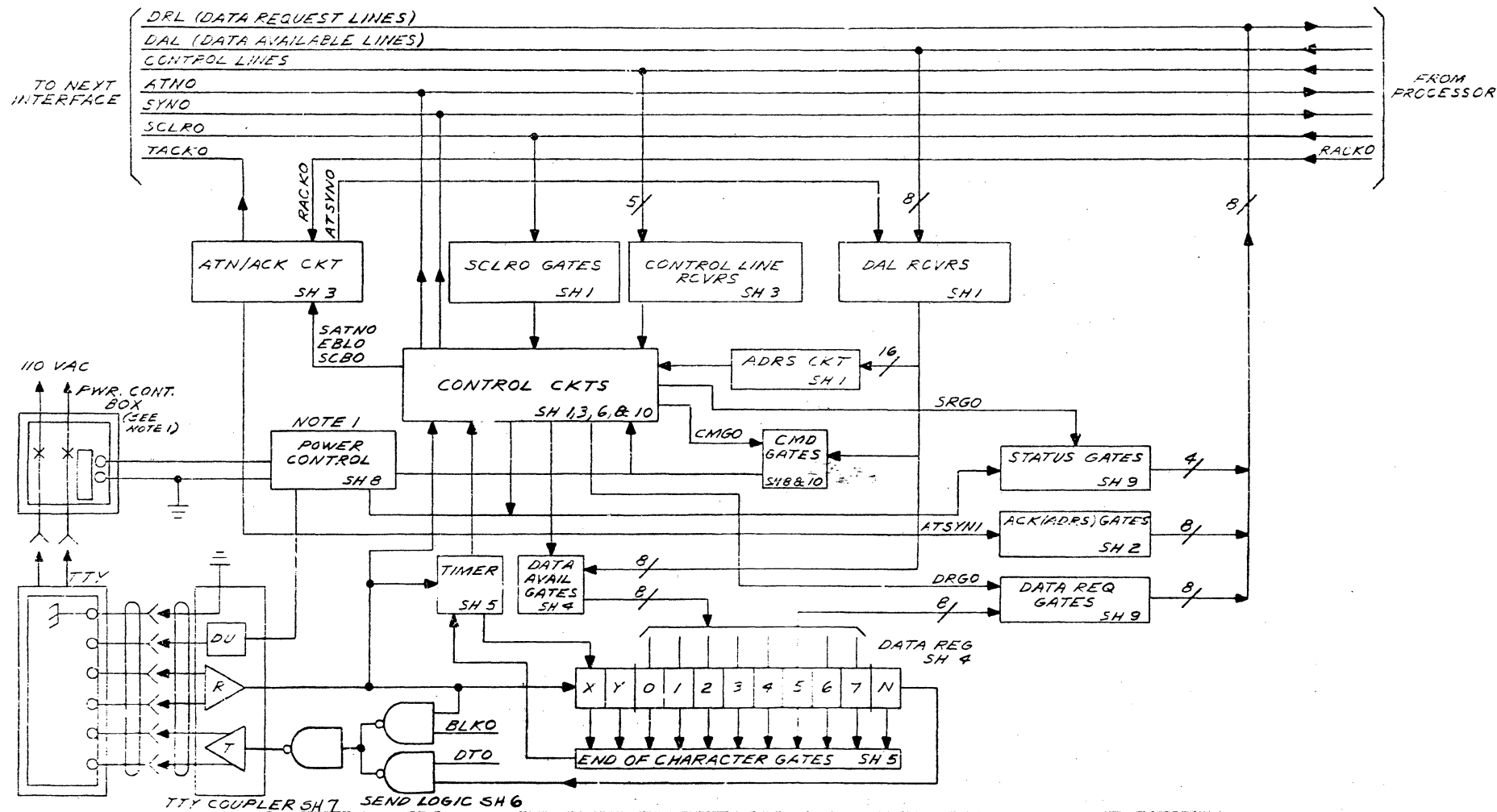


CMD GATES & FLOPS, BSY LOGIC



DWG. NO. (FS29)
70C113002
CONT ON SHEET 12 SH NO. 11

BLOCK DIAGRAM



TTY COUPLER SH 7 SEND LOGIC SH 6

**PROCESS COMPUTERS
PHOENIX ARIZONA**

TITLE	PHOENIX, ARIZONA
FUNCTIONAL SCHEMATIC, DISPLAY CONTROLLER	

DRAWING NUMBER	CONT.	PAGE
70B113003	0A	0
FIRST MADE FOR		
GE-PAC 30 PROJECT		
(FS31)		

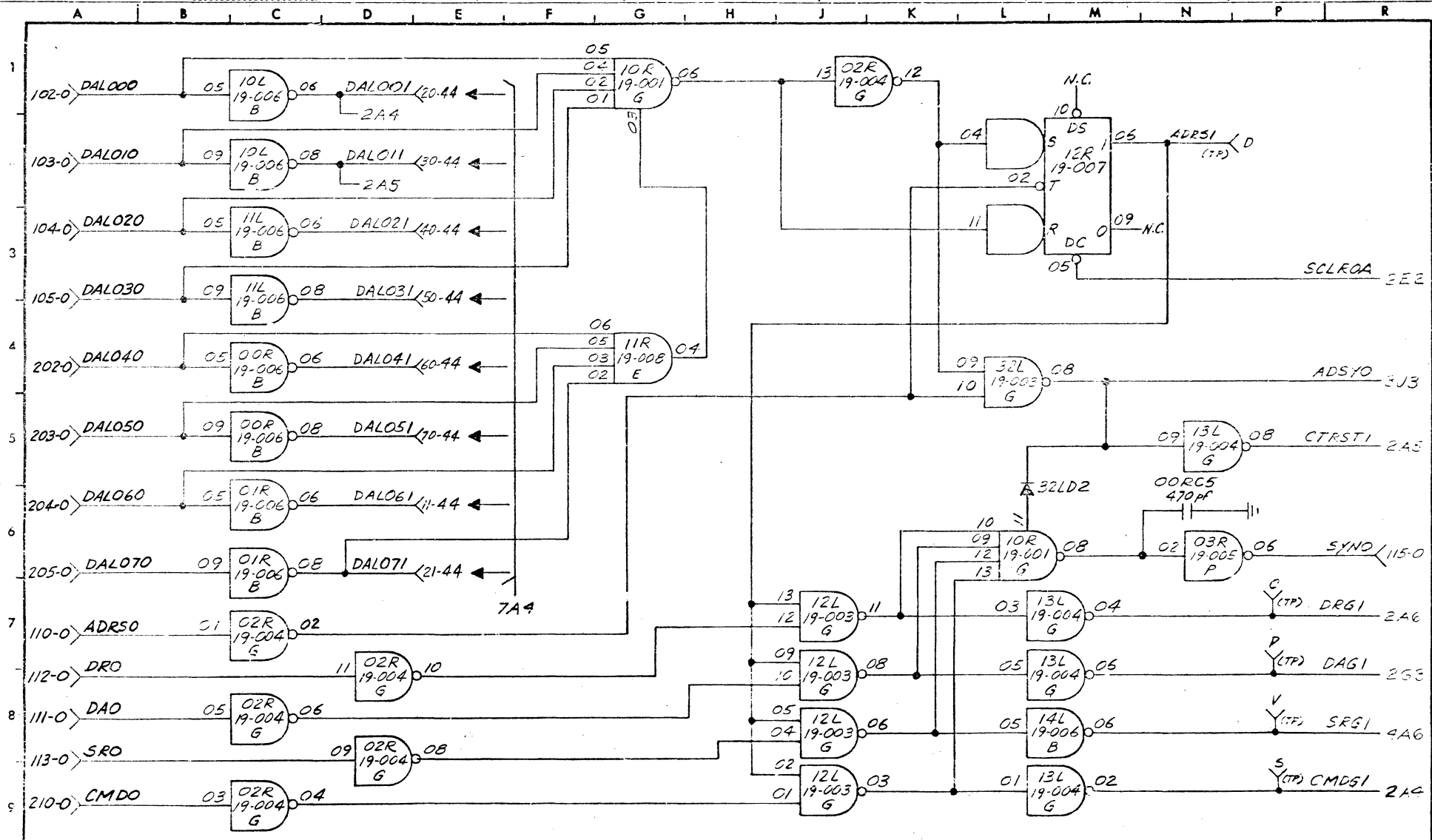
[illegible][illegible]

(FS31)

MADE BY <i>E. Ellsworth</i>	JUN 17, '69	APPROVAL <i>E. A. White</i>
ISSUED <i>July 18, 1969</i>		<i>June 25, 1969</i>

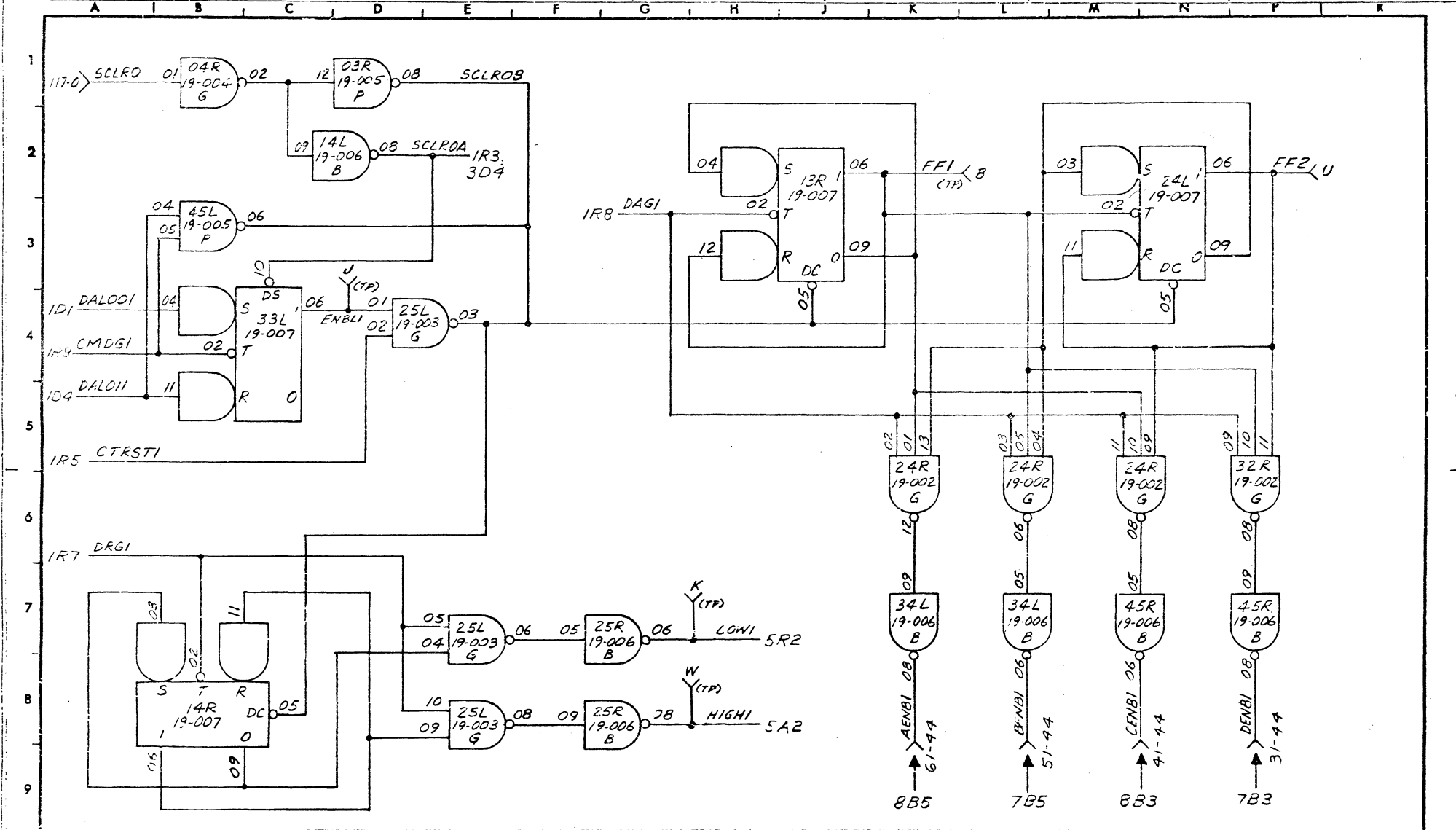
DWG. NO.	70B113003	CONT.	PAGE
PRINTS TO:	K7-08		0

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC DISPLAY CONTROLLER FNF GE-PAC 30	DWG NO (FS31) 70B113003 CONT ON SHEET 2 SH NO 1
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINING DIMENSIONS				
		✓	+	+			

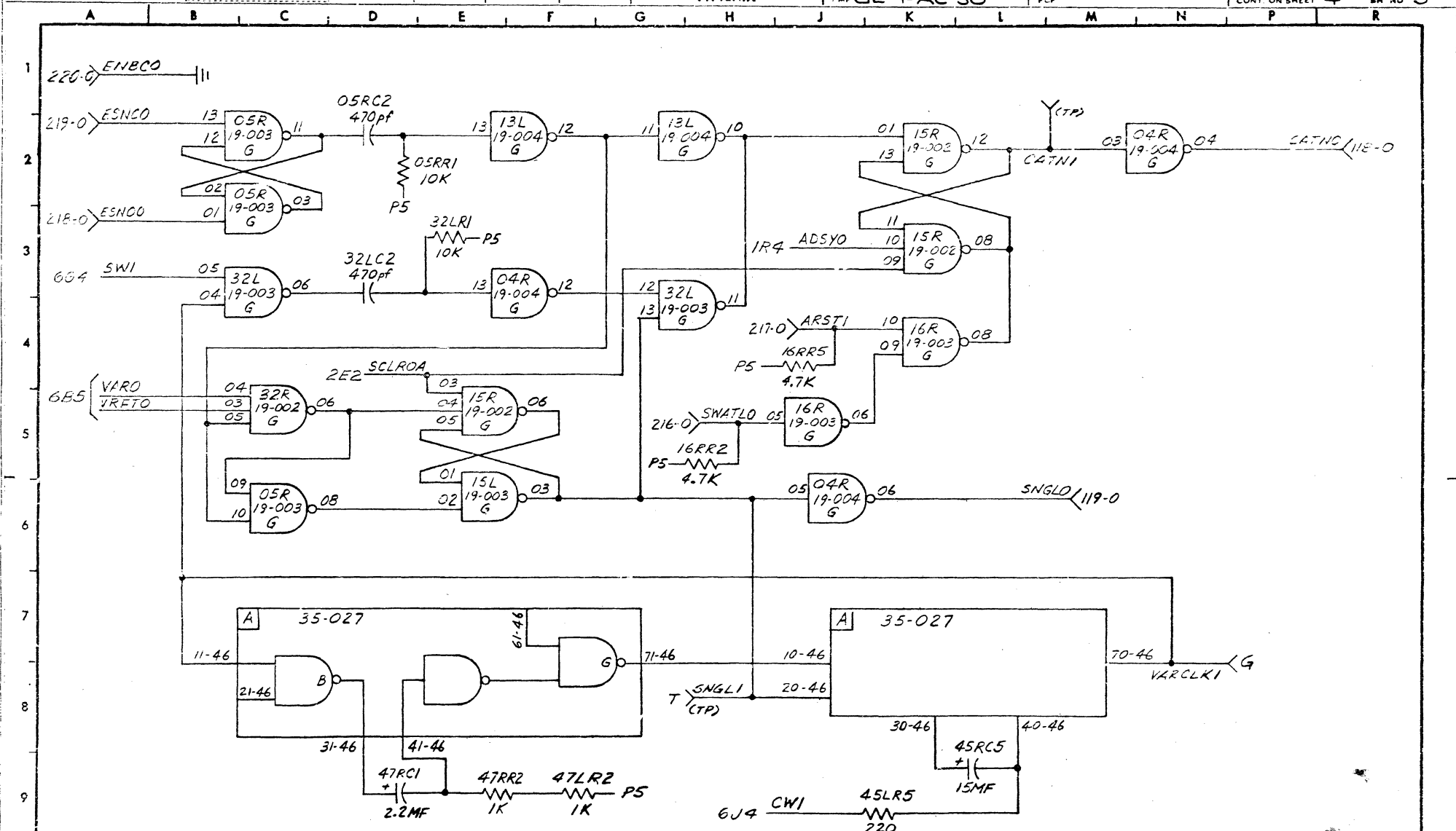


DESIGNED BY <i>S. G. White</i> JUN 17 1969	APPROVAL <i>S. G. White</i> June 25, 69	DES. CHKD <i>DR</i>	REV. B	DWG. NO (FS31) 70B113003 CONT ON SHEET 2 SH NO 1
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DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING -				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC DISPLAY CONTROLLER F&P GE-PAC 30	DWG NO (FS 31) 70B113003 CONT ON SHEET 3 SH NO 2
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS	DECIMALS			



MADE BY E. Ellsworth JUN. 17, 69	APPROVAL E. a. white June 25, 69	DES. CHGR. DR	REV. B	DWG. NO. (FS 31) 70B113003 CONT ON SHEET 3 SH NO. 2
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MADE BY
E. Ellsworth JUN. 17, 69
JUL 18 1969

APPROVAL
E. A. White
June 25, 69

DES.		REV.
CHKR.	<i>[Signature]</i>	

DWG. NO. (FS31)
70B113003
CONT. ON SHEET 4 SHEET NO. 3

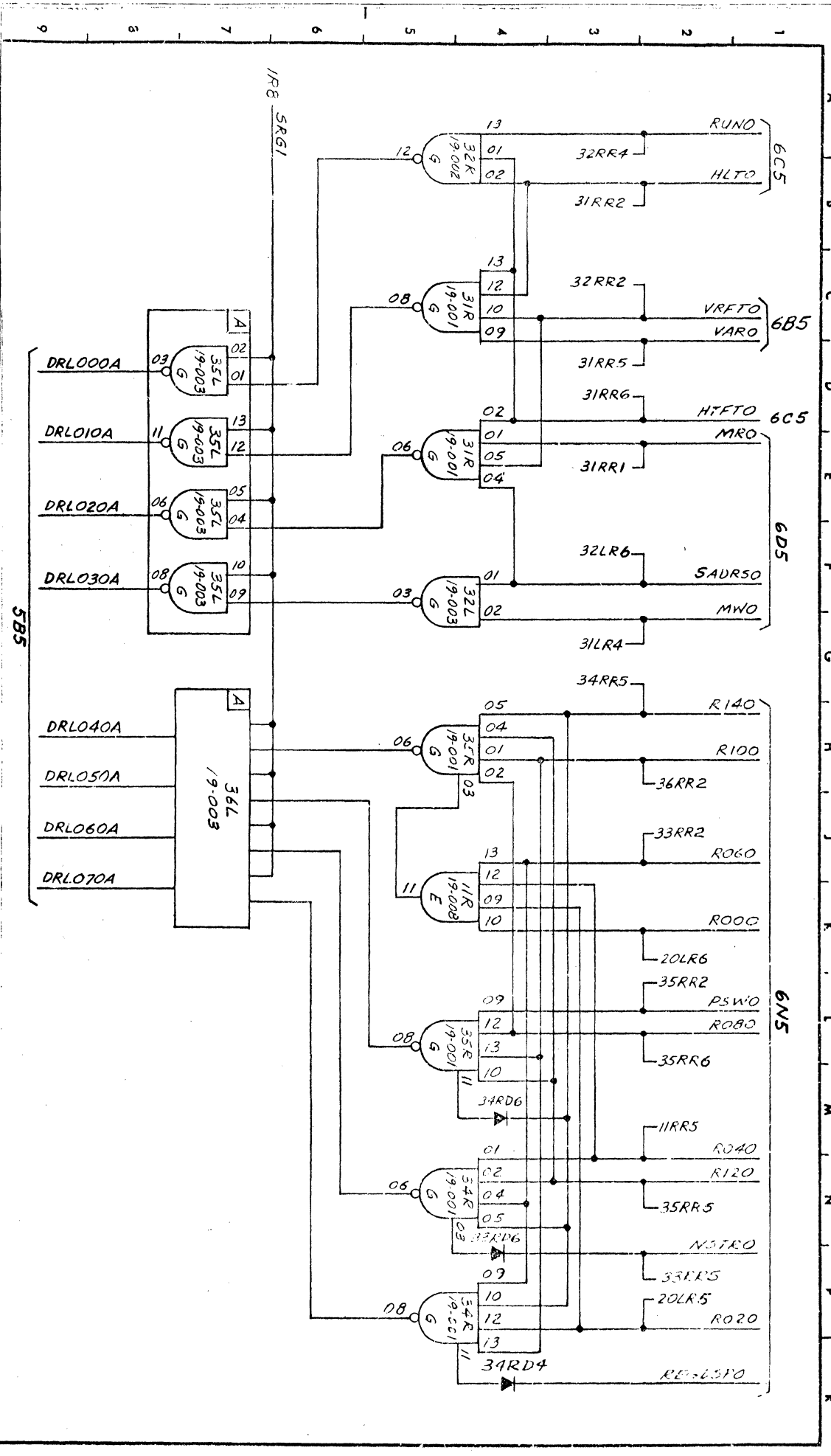
DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --
APPLIED PRACTICES SURFACES TOLERANCES ON PLACED DIMS USE
FRACTIONS DECIMALS ANGLES
+ + + +

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
DISPLAY CONTROLLER
GE-PAC 30

DWG. NO. (F-31)
70B13003
CONT. ON SHEET 5 SH. NO. 4



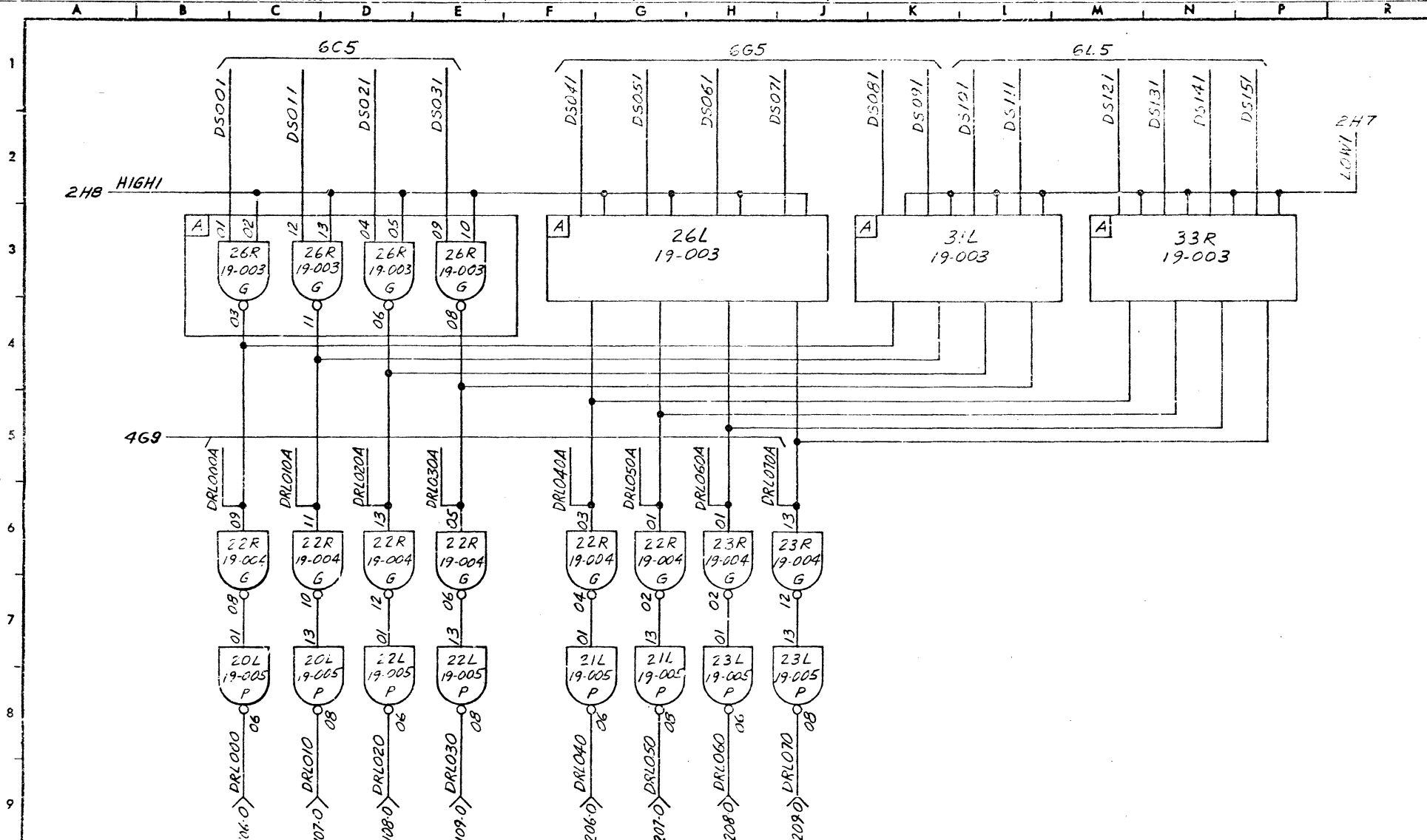
MADE BY
C. E. Blumrich JUN. 17, '69
ISSUED
JUL 18 1969

APPROVAL
E. A. W. Kite
June 25, 69
DES. CHMR. DR

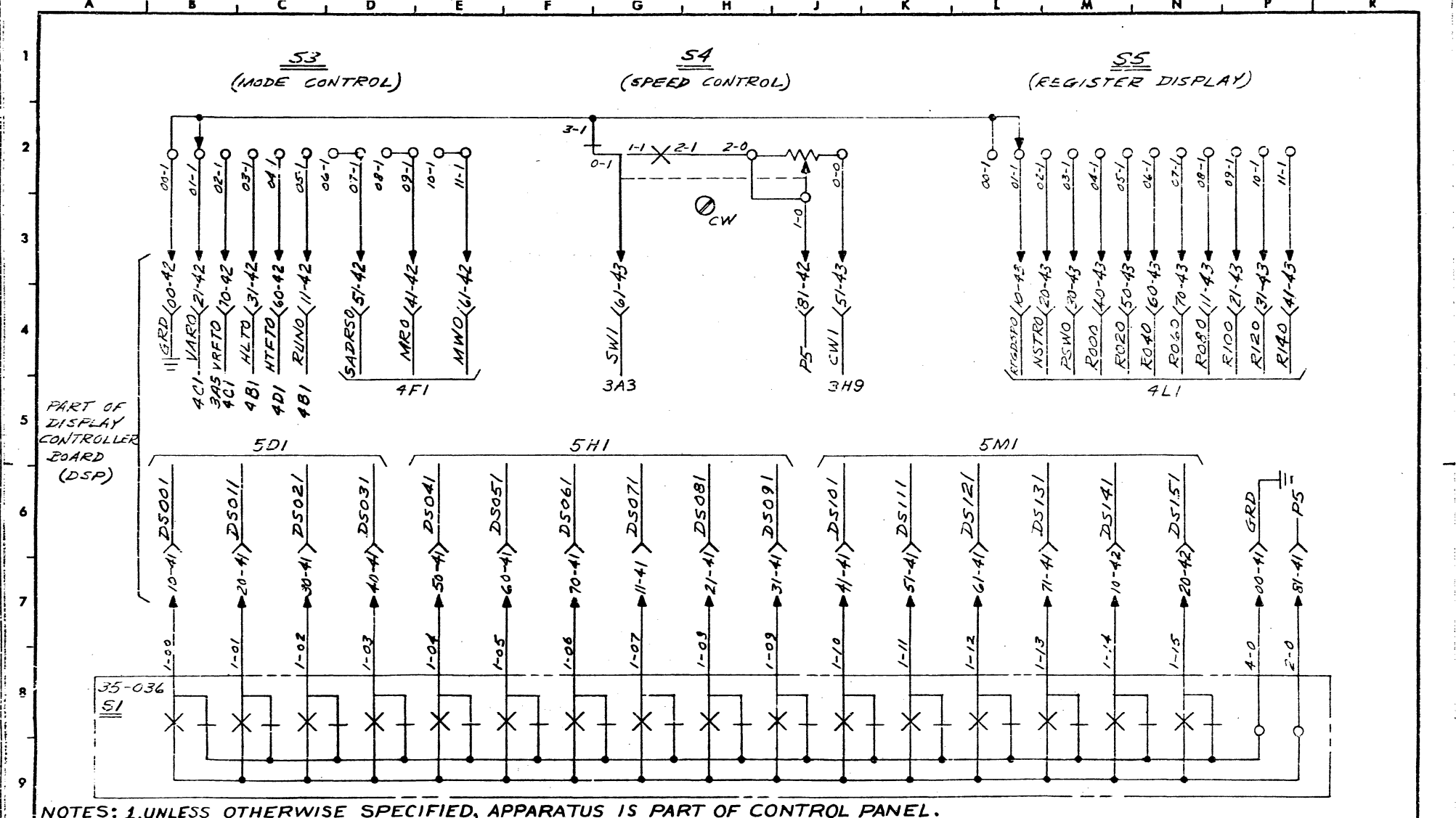
REV. B

DWG. NO. (F-31)
70B13003
CONT. ON SHEET 5 SH. NO. 4

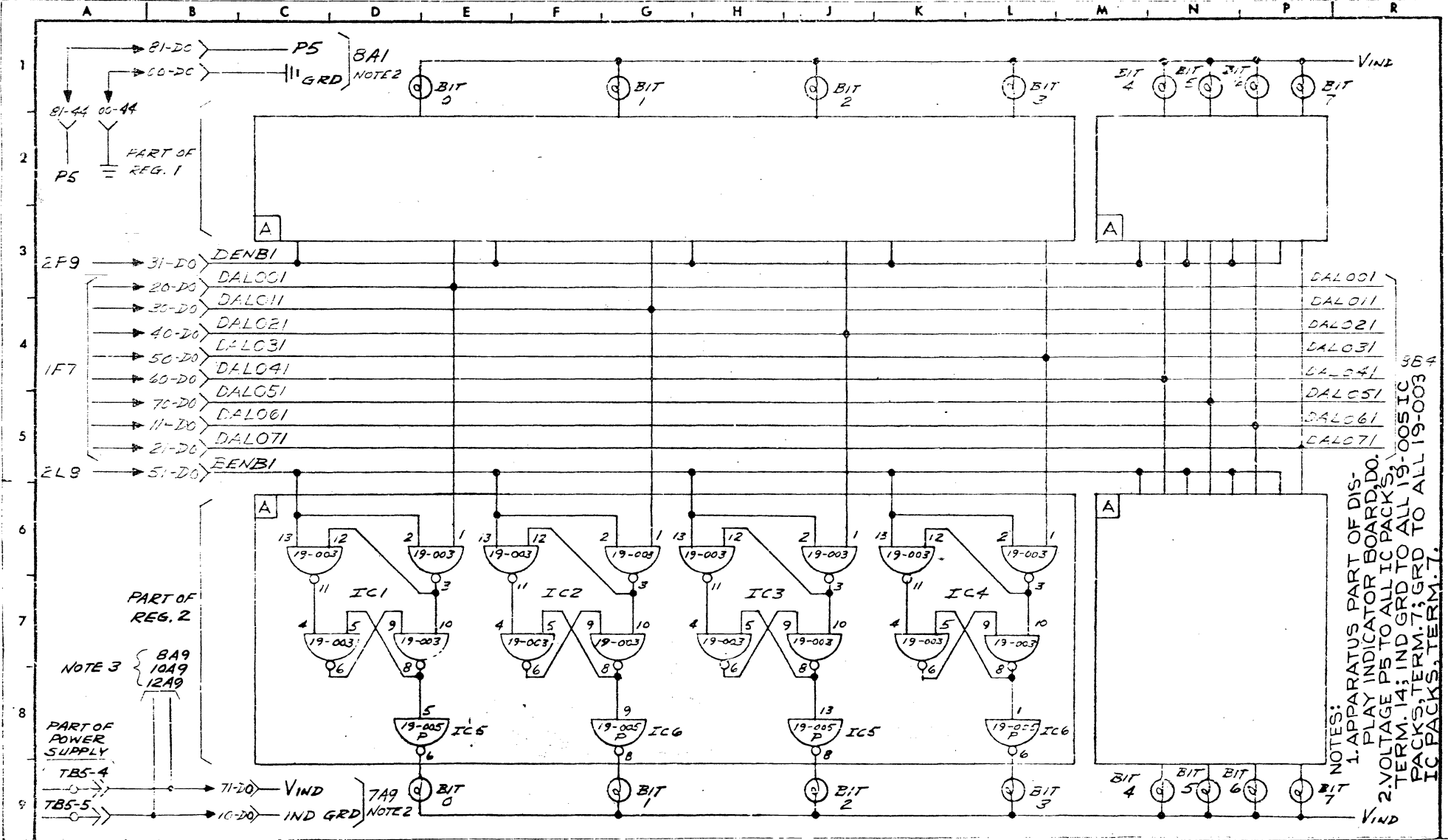
DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING -				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC DISPLAY CONTROLLER GE-PAC 30	DWG NO (FS31) 70B113003
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS	DECIMALS			
			+	+	+		CONT. ON SHEET 6 SH NO 5

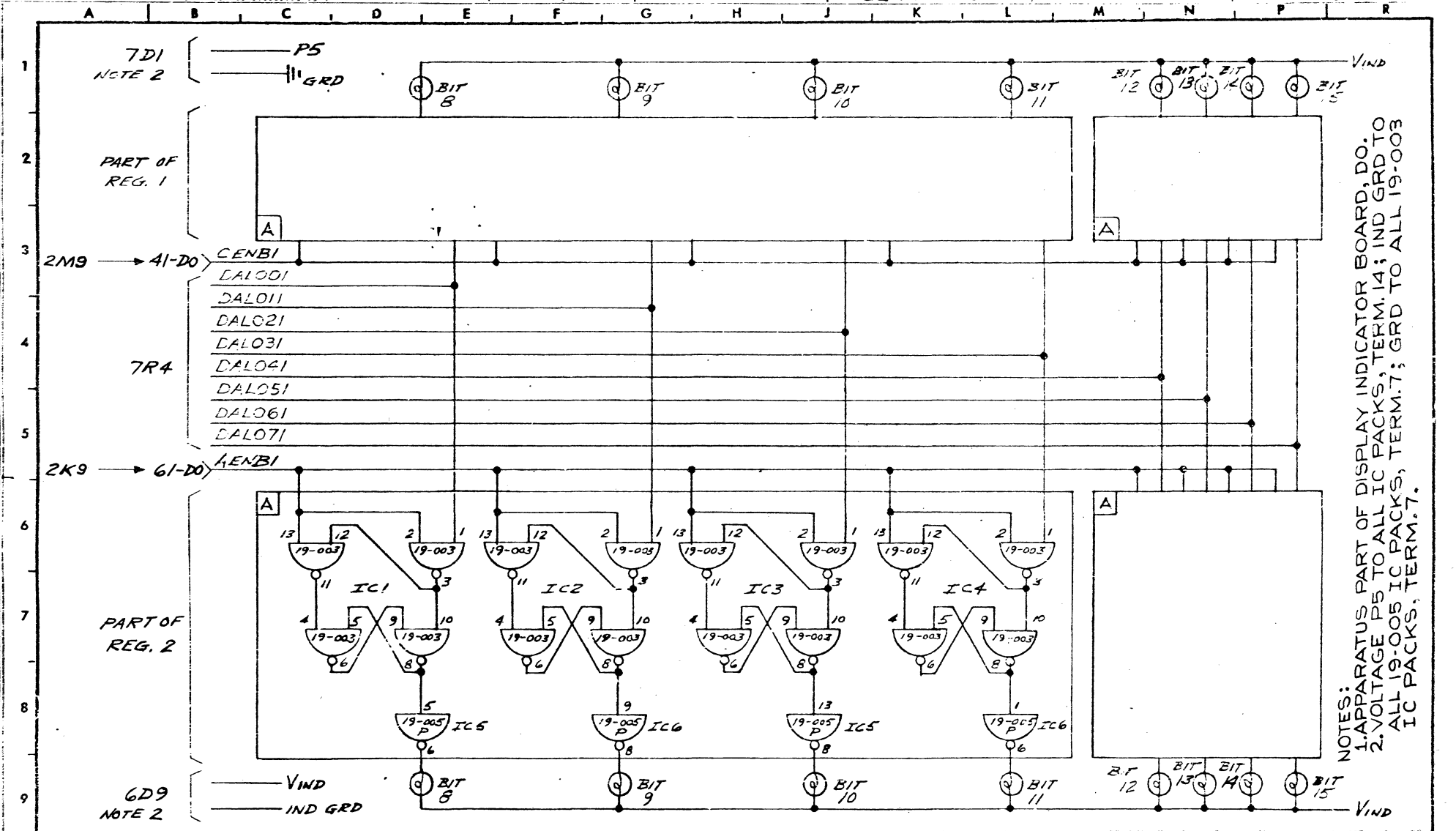


MADE BY G. Ellsworth JUN. 17, 69	APPROVAL E. A. White June 25, 69	DES. LARR	REV. B	DWG NO (FS31) 70B113003
JUL 18 1969				CONT. ON SHEET 6 SH NO 5



NOTES: 1. UNLESS OTHERWISE SPECIFIED, APPARATUS IS PART OF CONTROL PANEL.





NOTES:
 1. APPARATUS PART OF DISPLAY INDICATOR BOARD, DO.
 2. VOLTAGE P5 TO ALL IC PACKS, TERM. 14; IND GRD TO ALL 19-005 IC PACKS, TERM. 7; GRD TO ALL 19-003 IC PACKS, TERM. 7.

1ST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				GENERAL ELECTRIC		TITLE FUNCTIONAL SCHEMATIC		DWG. NO. (FS31)	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS			PROCESS COMPUTER		DISPLAY CONTROLLER		70B113003
		✓	FRACTION	DECIMALS	ANGLES	PHOENIX		FNF GE-PAC 30		CONT. ON SHEET F SH. NO. 9

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
1	BACK PANEL MAP														
	CCN V. POS	21													
	MC, H. BD	DSP													
	VERT. POS	HORIZ. POS		HORIZ. POS		HORIZ. POS		HORIZ. POS		HORIZ. POS		HORIZ. POS		HORIZ. POS	
		0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
2	22														
	21														
	20														
	19														
	18														
	17														
	16														
3	15														
	14														
	13														
	12														
	11														
	10														
4	09														
	08														
	07														
	06														
	05														
	04														
	03														
5	02														
	01														
	00														
6	22	PS	GND												
	21														
	20		ENBCO												
	19	ENGL0	ESNCO												
	18	CATNO	FSNCO												
	17	SCLRO	ARSTI												
	16		SWATLO												
	15	SYNO	ATNO												
	14														
7	13	SRO	CLO70												
	12	DRO	CLO60												
	11	DAG	WKRT0												
	10	ADR50	CMDO												
	09	DRLO30	DRLO70												
	08	DRLO20	DRLO60												
8	07	DRLO10	DRLO50												
	06	DRLO00	DRLO40												
	05	DAL030	DAL070												
	04	DAL020	DAL060												
	03	DAL010	DAL050												
	02	DAL000	DAL040												
9	01	PIS	NIS												
	00	PS	GND												

MADE BY E. A. White	APPROVAL E. A. White	DES. June	CHKR. OR	REV. B												
MADE BY E. A. White ISSUED JUL 18 1969					DWG. NO. (FS31) 70B113003 CONT. ON SHEET F SH. NO. 9											

**PROCESS COMPUTERS
PHOENIX ARIZONA**

DRAWING NUMBER	70B113004	CONT.	PAGE
FIRST MADE FOR	GE-PAC 30	0A	0
(FS38)			

[illegible][illegible]

(FS 38)

MADE BY
G. Ellsworth JUN. 18, '69

APPROVAL
DR
E. G. White
JUNE 26, 69

ISSUED
July 18, 1969

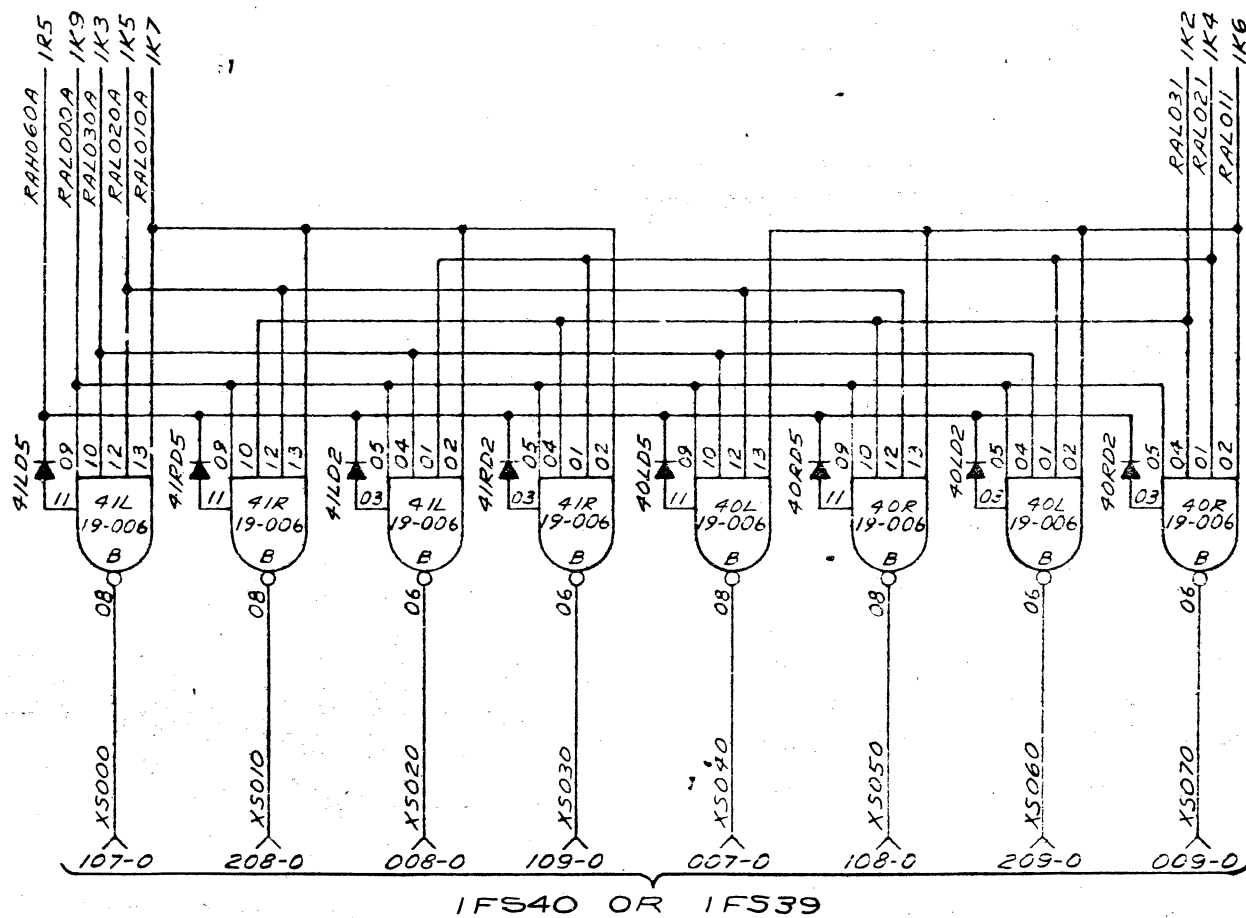
v.	e
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DWG. NO.
70B113004

PRINTS
TO: K7-08

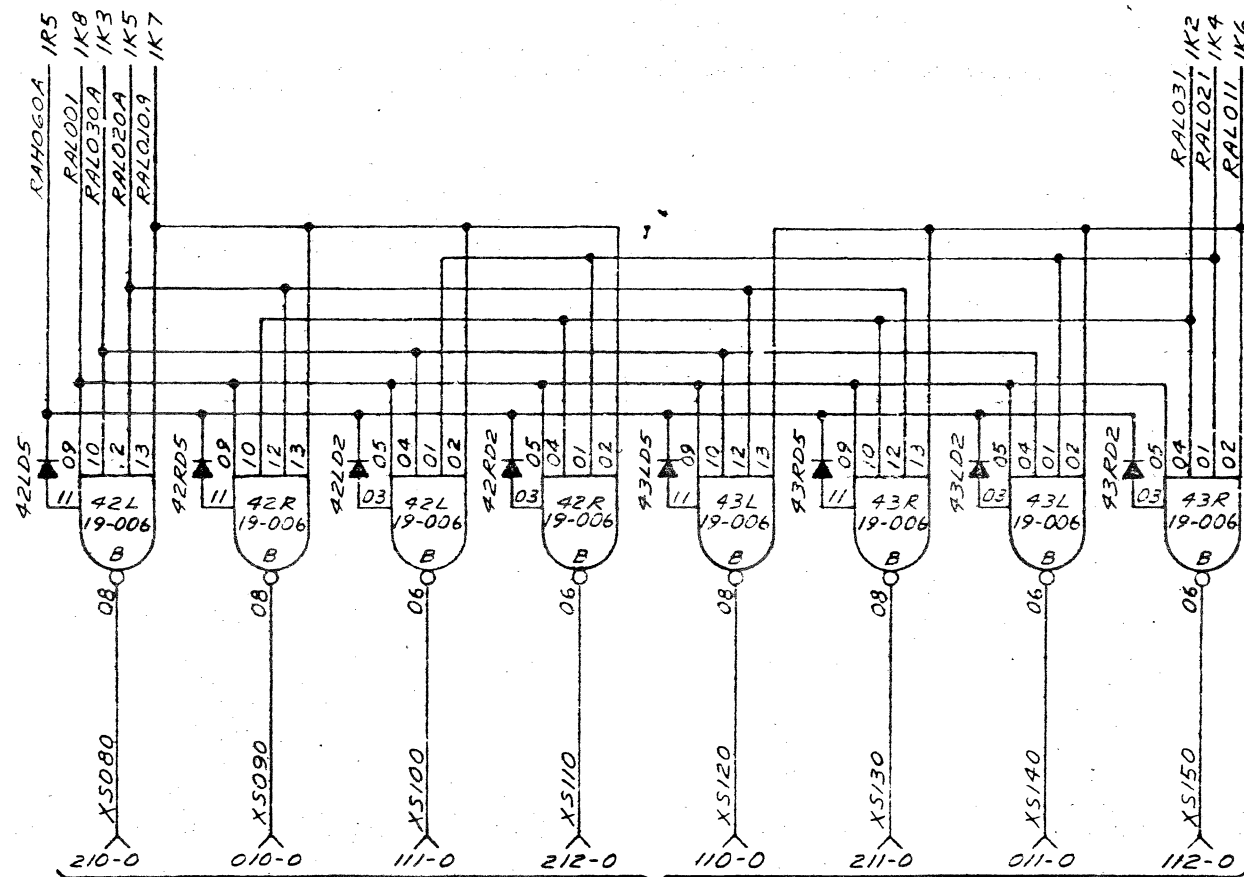
CONT.	PAGE
QA	0

"X" SWITCH SELECT



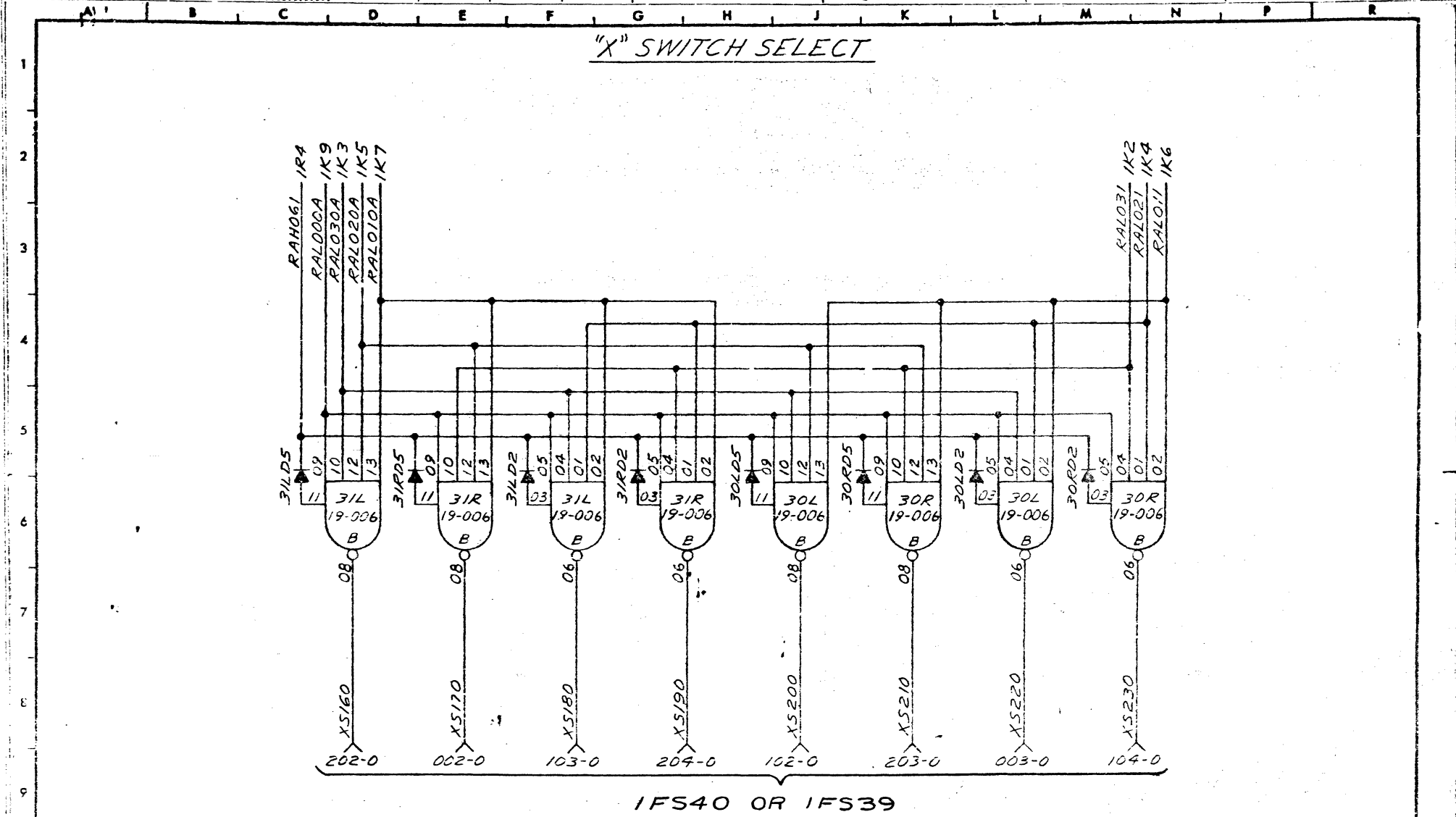
DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING					GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC READ ONLY MEMORY SWITCH FMF GE-PAC 30 FCF		DWG. NO. (FS38)	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS						70B113004	
		✓	FRACTIONS	DECIMALS	ANGLES				CONT. ON SHEET 4 SH. NO. 3	

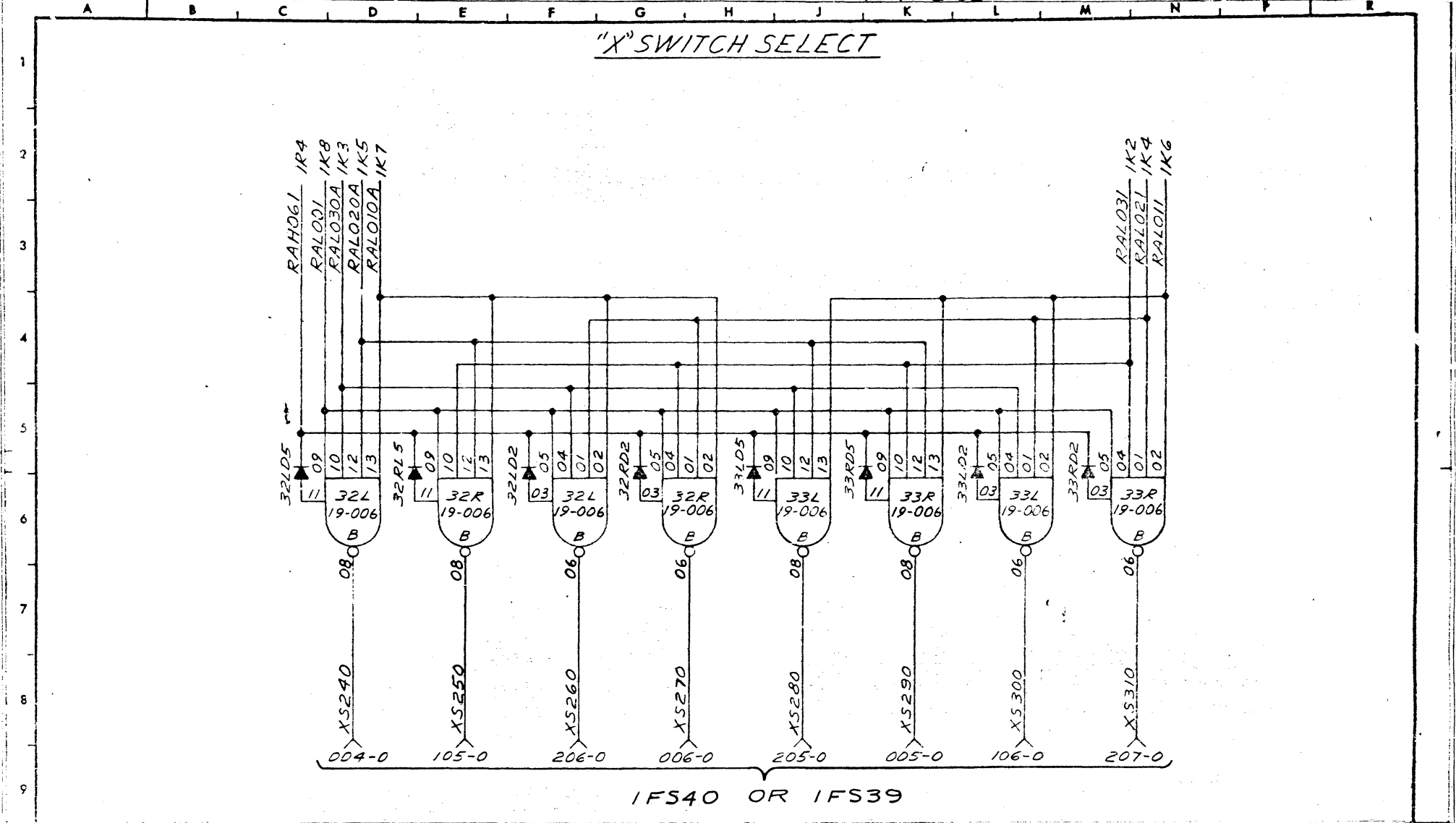
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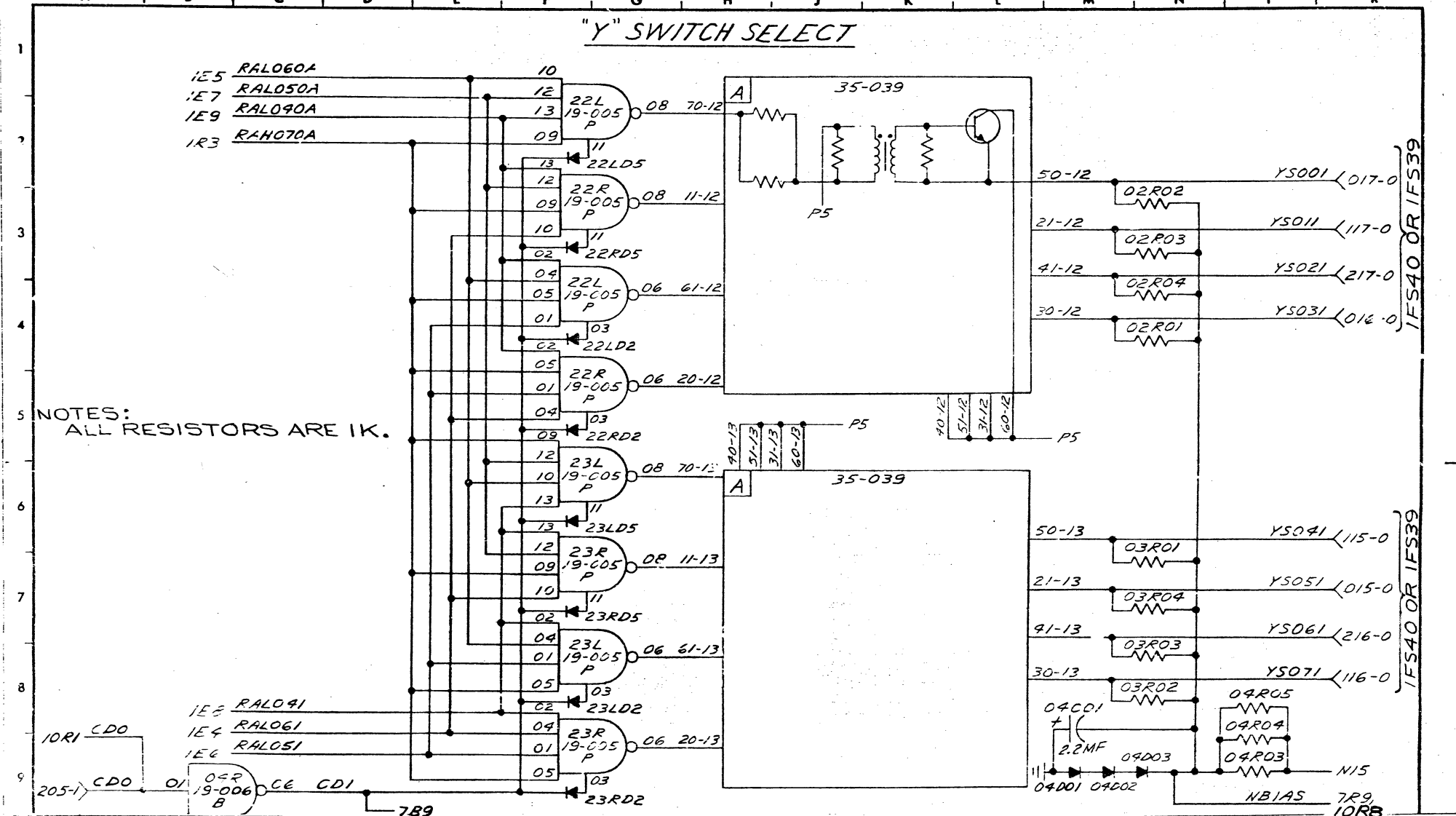
IFS40 OR IFS39

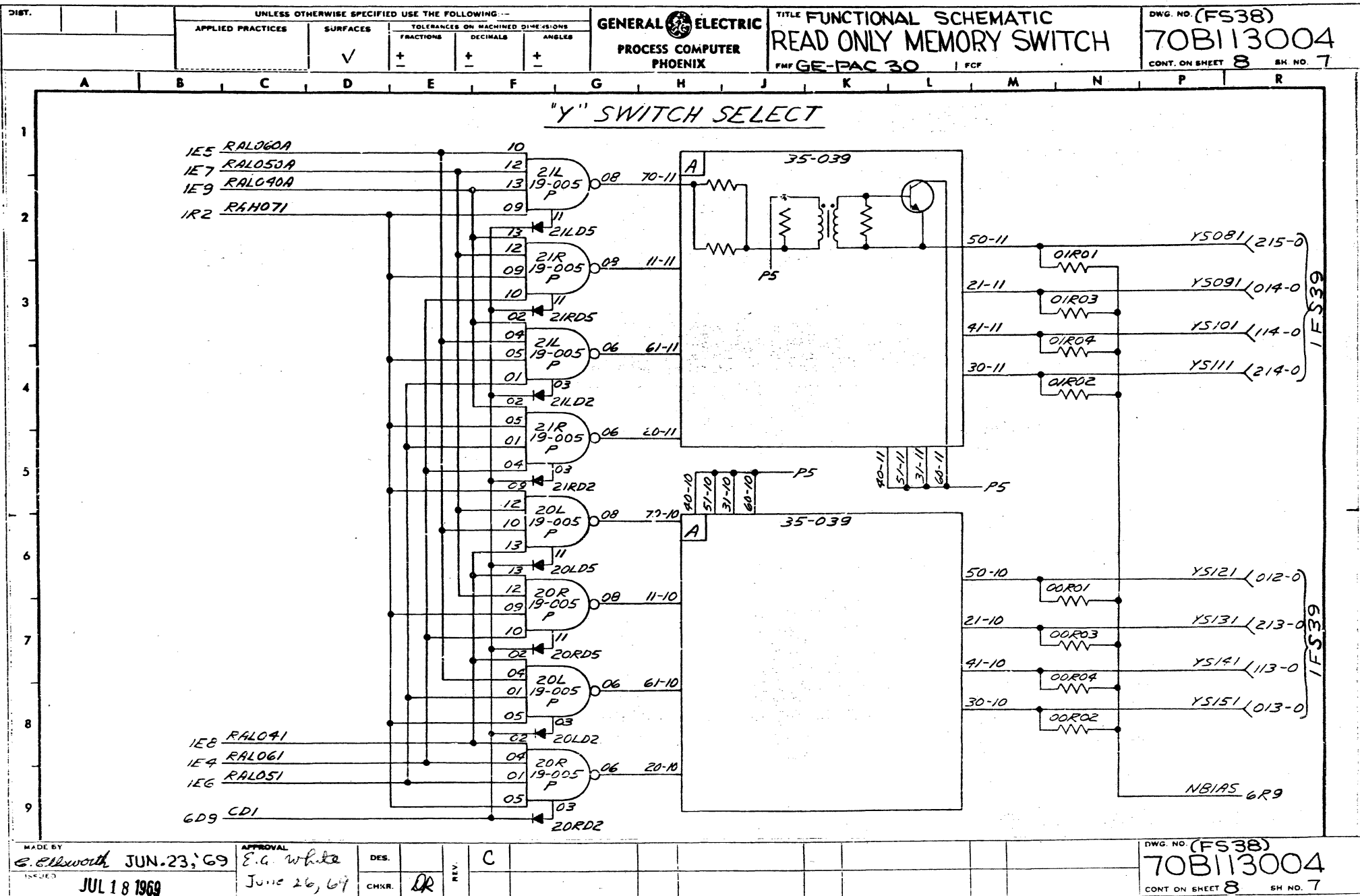
MADE BY G. Ellsworth JUN. 18, 69	APPROVAL E. G. White June 26, 69	DES. CHKR. DR	REV. C					DWG. NO. (FS38) 70B113004
JUL 4-8 1969				CONT. ON SHEET 4 SH. NO. 3				



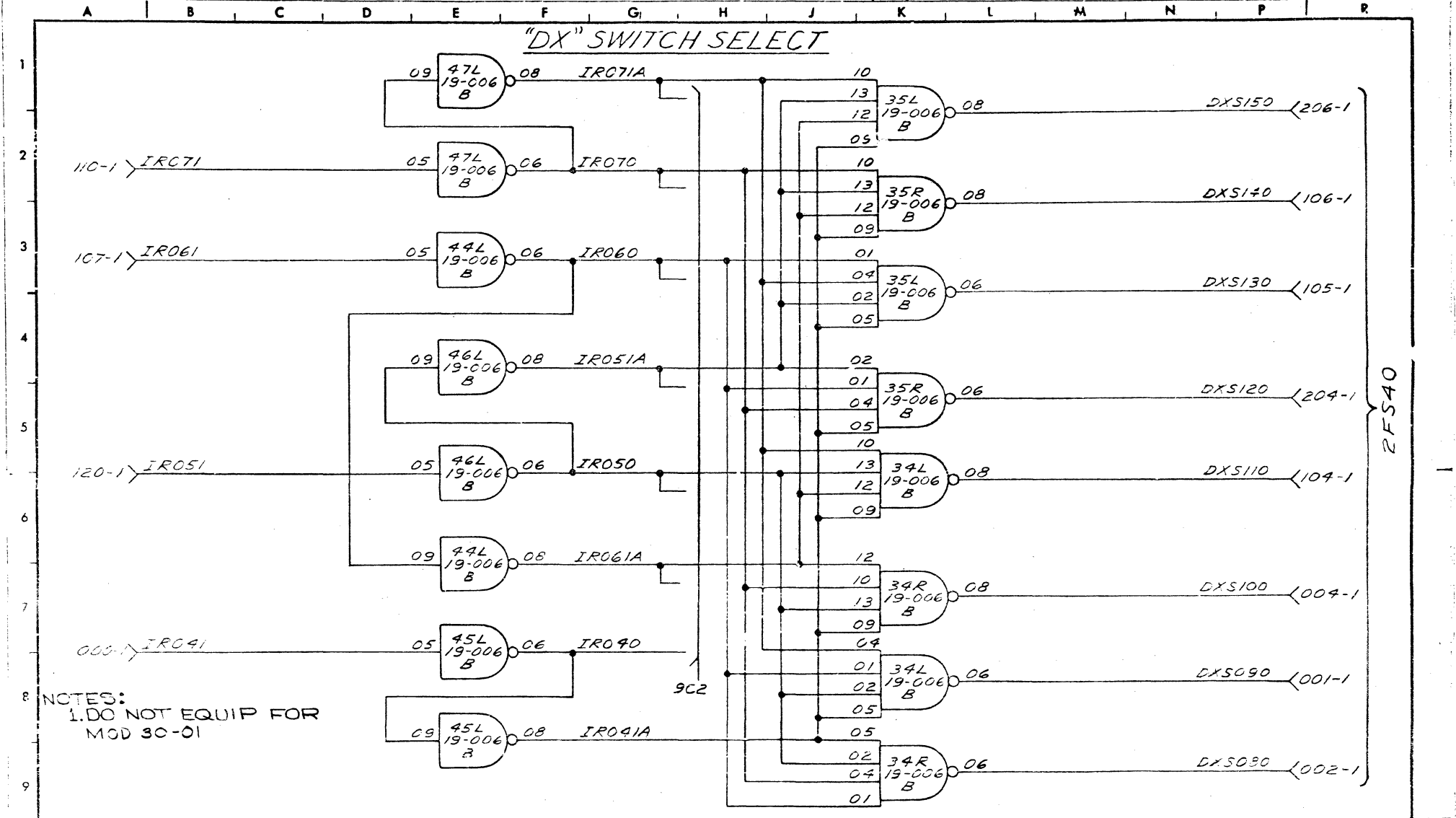


"Y" SWITCH SELECT





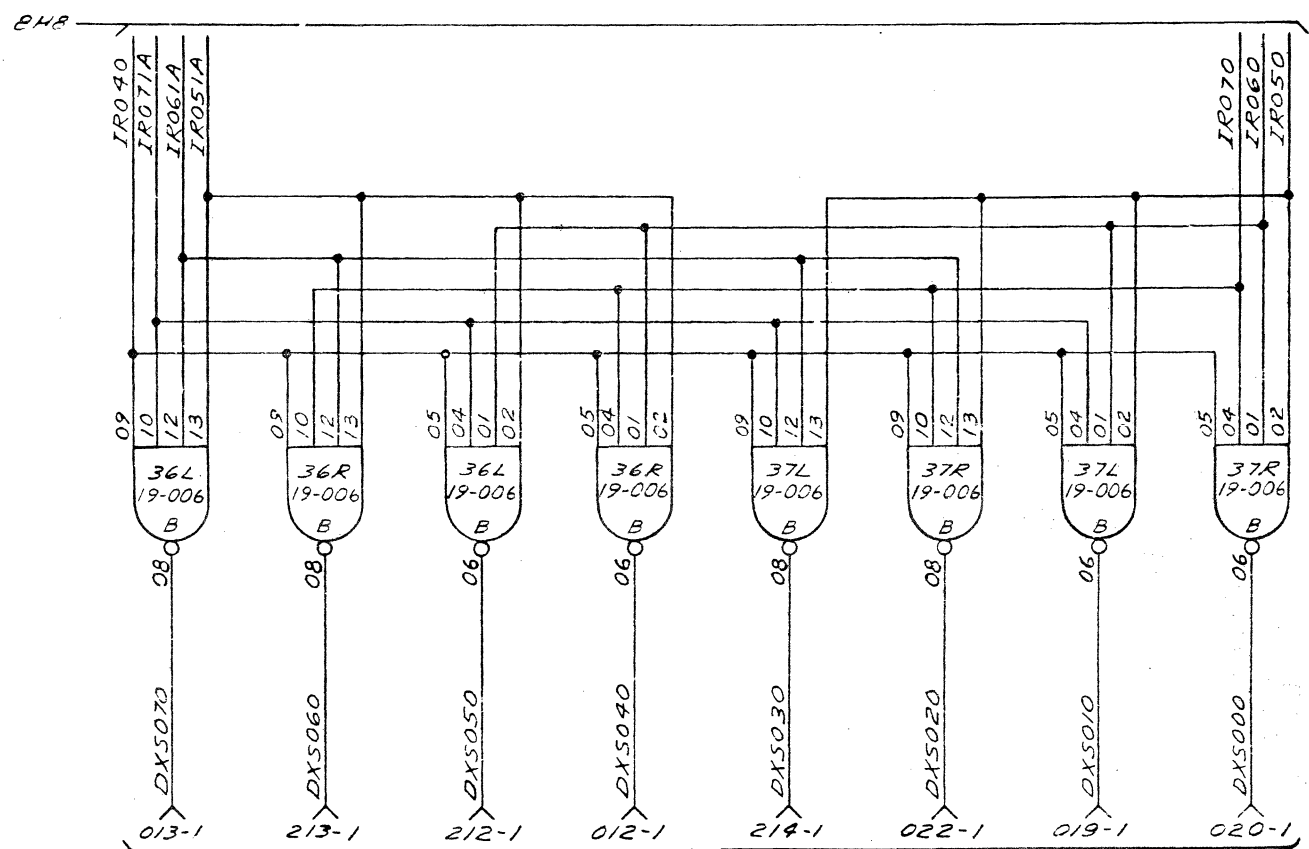
DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC READ ONLY MEMORY SWITCH FHF GE-PAC 30 FCF	DWG NO (FS 38) 70B113004 CONT. ON SHEET 9 SH NO. 8
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS +	DECIMALS +			



NOTES:
1. DO NOT EQUIP FOR
MOD 30-01

MADE BY JUN. 23, 69	APPROVAL E. G. White JUL 18, 69	DES. C	CHKR. CR	DWG. NO (FS 38) 70B113004 CONT. ON SHEET 9 SH NO. 8
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"DX" SWITCH SELECT

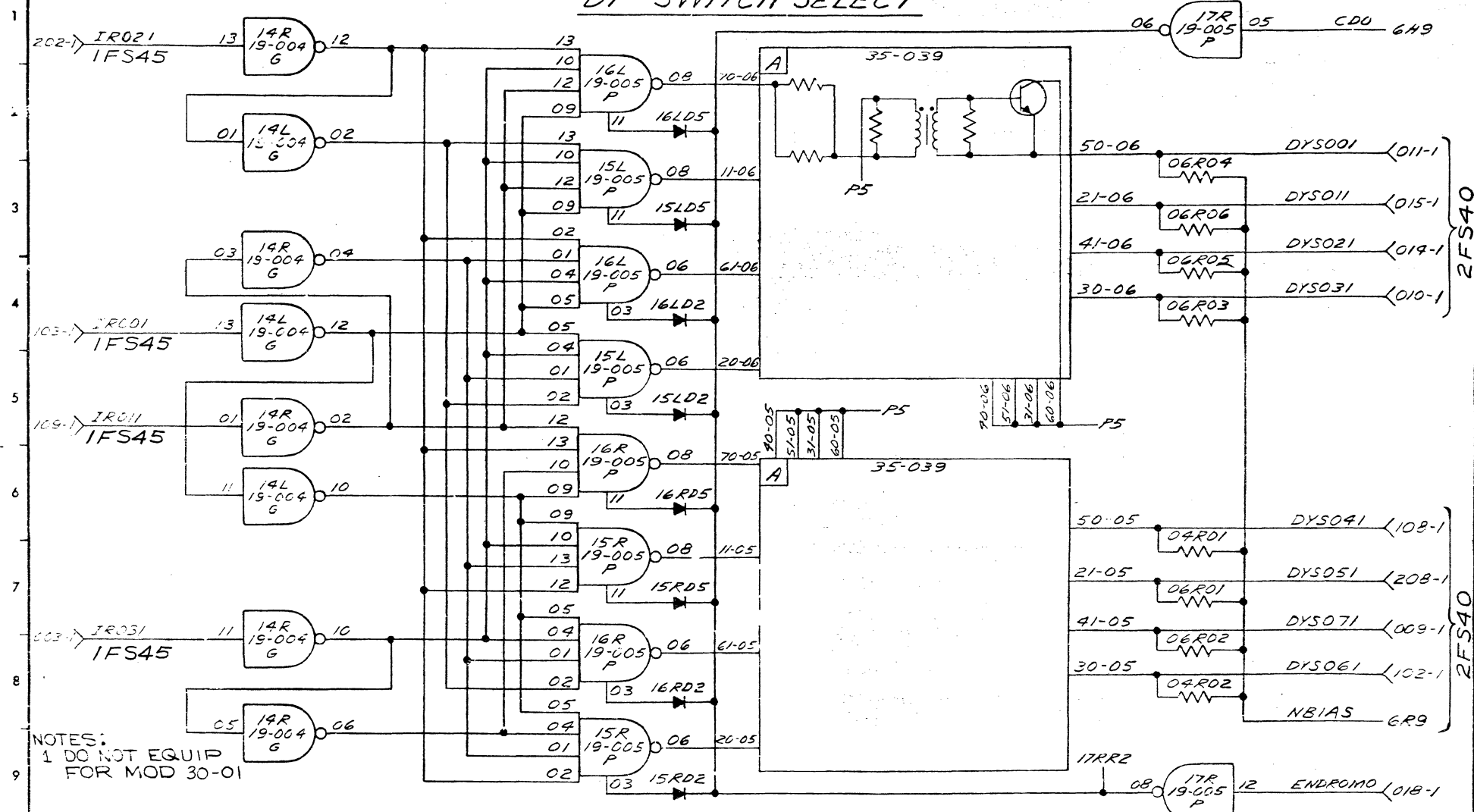


NOTES:
1. DC NOT EQUIP FOR MOD 30-01

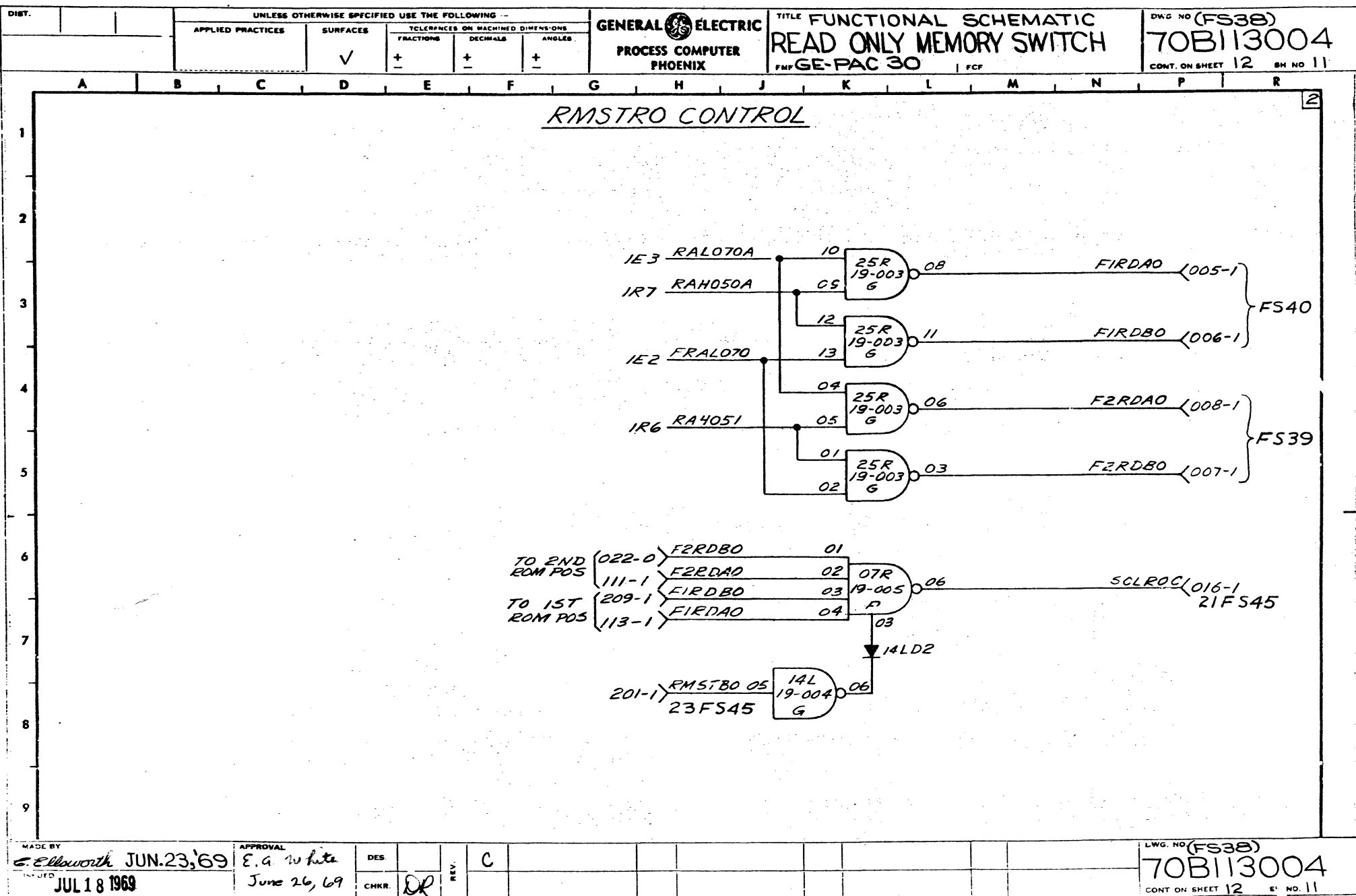
2FS40

DIST	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC READ ONLY MEMORY SWITCH	DWG NO (FS38) 70B113004
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
			FRACTIONS	DECIMALS			
		✓	+	+			CONT. ON SHEET 11 SH NO 10

"DY" SWITCH SELECT



MADE BY S. Ellsworth	JUN. 23, '69	APPROVAL E. A. White	DES. June 26, '69	CHKR. QR	REV C	DWG. NO. (FS38) 70B113004	CONT. ON SHEET 11 SH NO. 10
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DWG NO (FS38)
70B113004
CONT. ON SHEET 13 SH NO 12

[illegible]

DWG. NO. (F5-38)
70B113004
CONT ON SHEET 13 SH NO 12

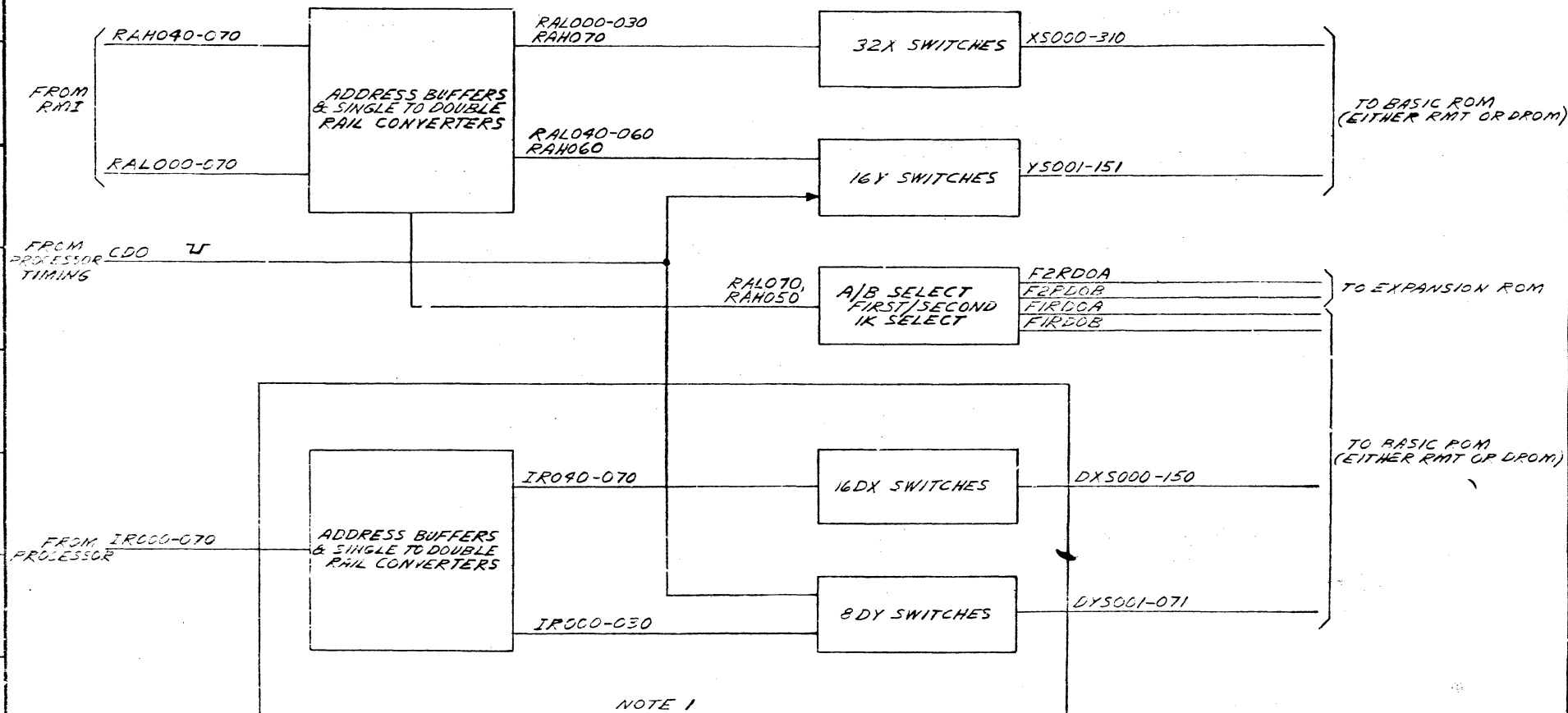
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
	✓	FRACTIONS	DECIMALS	ANGLES
		+	+	+
		-	-	-

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

FUNCTIONAL SCHEMATIC
READ ONLY MEMORY SWITCH
FMF GE-PAC 30

(FS38)
70B113004
CONT. ON SHEET F SH NO 13

BLOCK DIAGRAM



NOTE 1

MADE BY
G. S. L. JUN. 23, 69
ISSUED
JUL 18 1969

APPROVAL

DES.
CHKR. *GR*

REV. C

DWG. NO. (FS38)
70B113004
CONT. ON SHEET F SH NO 13

**PROCESS COMPUTERS
PHOENIX ARIZONA**

TITLE FUNCTIONAL SCHEMATIC
ROM TRANSFORMER

DRAWING NUMBER	70B113005	CONT.	PAGE
FIRST MADE FOR	GE-PAC 30	0A	0

(FS39)

REVISION STATUS

[illegible]

REVISION STATUS

[illegible]

MADE BY <i>E. Ellsworth</i>	APPROVAL <i>E. G. White</i>
JUN. 23, 1969	JUN 26, 1969
ISSUED <i>July 18, 1969</i>	

DWG. NO.	70B113005	CONT.	PAGE
PRINTS TO:	K7-08	0A	0

SHEET INDEX

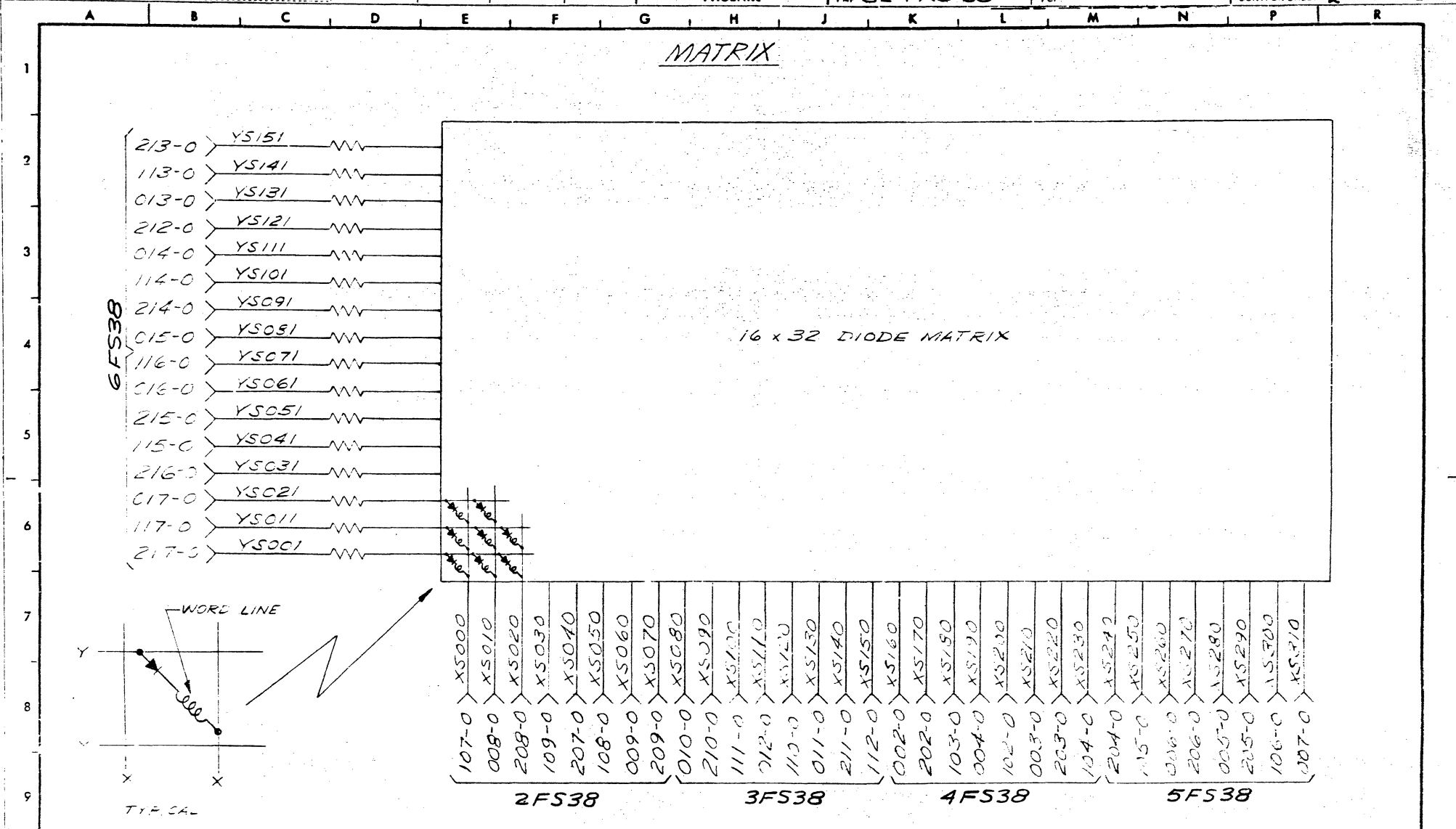
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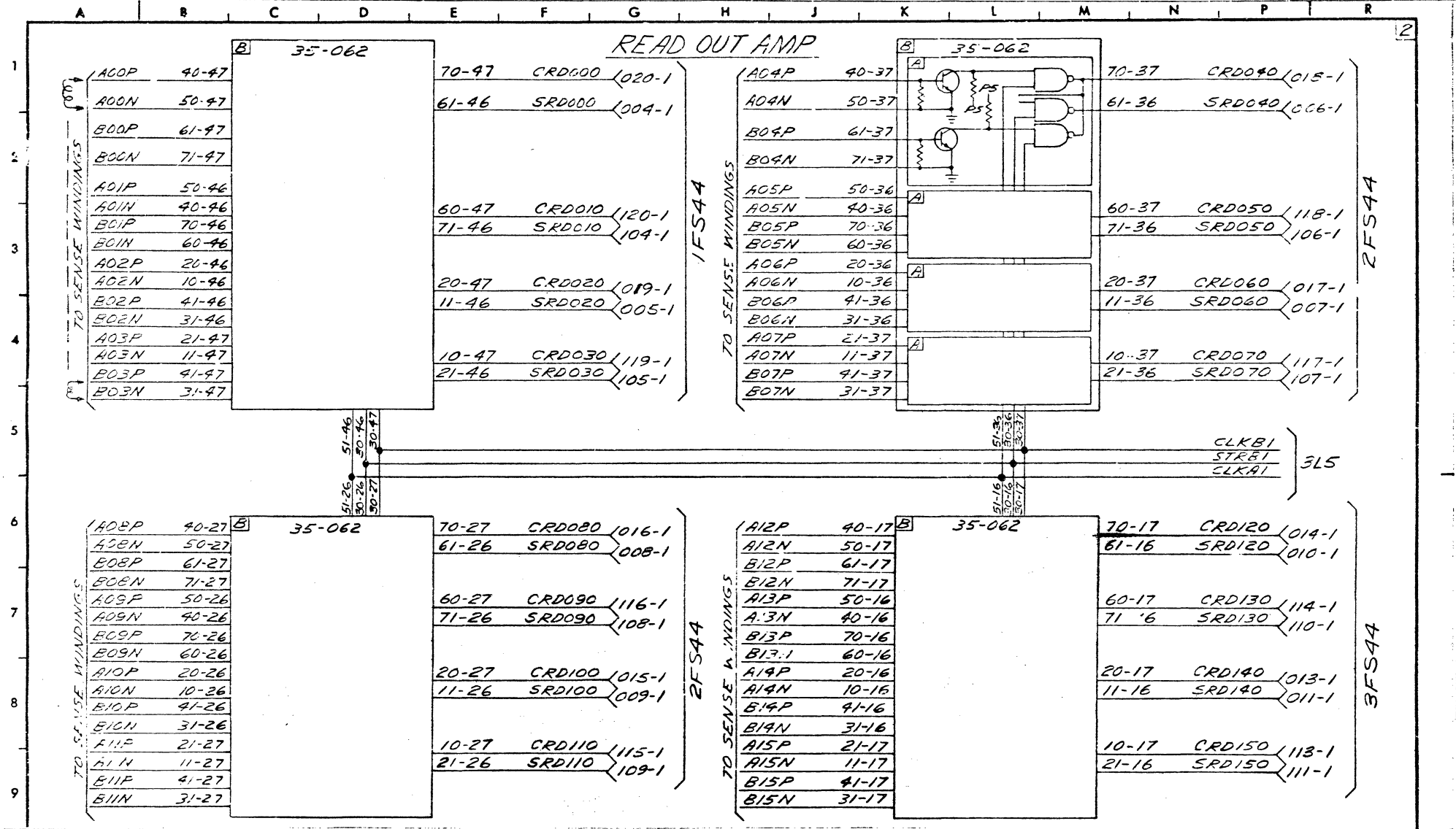
SUPPORTING INFORMATION

CATEGORY	PART NO
MOTHER BOARD RCM TRANSFORMER (RMT)	32-017R03 32-017F01R05 32-017F02R05 32-017F03R05 32-017F04R05 32-017F05R08

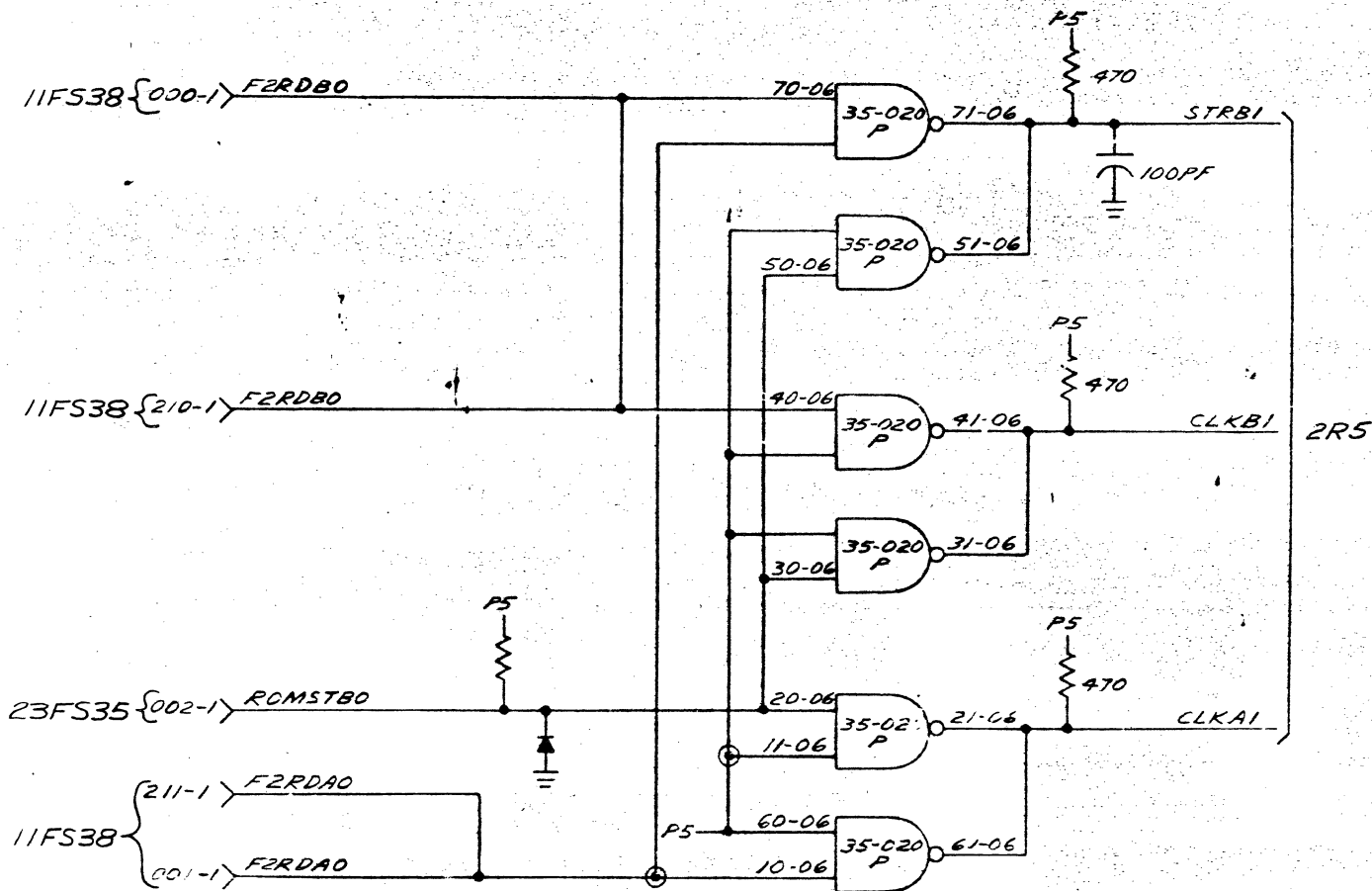
SHEET INDEX NOTES:

1. CHANGES ON THIS DRAWING SHALL REQUIRE ONLY THE REISSUE OF SHEETS AFFECTED.
2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.





STROBE LOGIC



MADE BY
G. Ellsworth JUN. 23, 69
ISSUED JUL 18 1969

APPROVAL
E. A. White
June 26, 69

DES.
CHKR *OR*

C

DWG. NO (FS39)
70B113005
CONT. ON SHEET 4 SH. NO 3

DWG. NO.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING -	GENERAL ELECTRIC	TITLE FUNCTIONAL SCHEMATIC	DWG. NO. (FS39)
	APPLIED PRACTICES	PROCESS COMPUTER PHOENIX	ROM TRANSFORMER	70B113005
	SURFACES	TOLENCES ON MACHINED DIMENSIONS	PMF GE-PAC 30	CONT. ON SHEET 5
	✓	FRACTIONS DECIMALS ANGLES	PCF	SH. NO. 4

BACK PANEL MAP															
CONN. DS	08														
MCH. BD	RMT														
VERT. POS	HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
22		P5	GND												
21															
20	CRD005	CRD010													
19	CRD020	CRD030													
18	CRD040	CRD050													
17	CRD060	CRD070													
16	CRD080	CRD090													
15	CRD100	CRD110													
14	CRD120	CRD130													
13	CRD140	CRD150													
12															
11	SRD140	SRD150	F2RDA0												
10	SRD120	SRD130	F2RDB0												
09	SRD100	SRD110													
08	SRD080	SRD090													
07	SRD060	SRD070													
06	SRD040	SRD050													
05	SRD020	SRD030													
04	SRD000	SRD010													
03															
02	ROMSTB0														
01	F2RDA0														
00	F2RDB0	P5	GND												
22		P5	GND												
21															
20															
19															
18															
17	YS021	YS011	YS001												
16	YS061	YS071	YS031												
15	YS051	YS041	YS051												
14	YS111	YS101	YS091												
13	YS131	YS141	YS151												
12	XS110	XS150	XS121												
11	XS130	XS100	XS140												
10	XS080	XS120	XS090												
09	XS060	XS030	XS070												
08	XS010	XS050	XS020												
07	XS310	XS000	XS040												
06	XS260	XS300	XS270												
05	XS280	XS250	XS290												
04	XS190	XS230	XS240												
03	XS210	XS180	XS220												
02	XS160	XS200	XS170												
01															
00		P5	GND												

MADE BY
G. Ellsworth JUN. 23, 69
ISSUED
JUL 18 1969

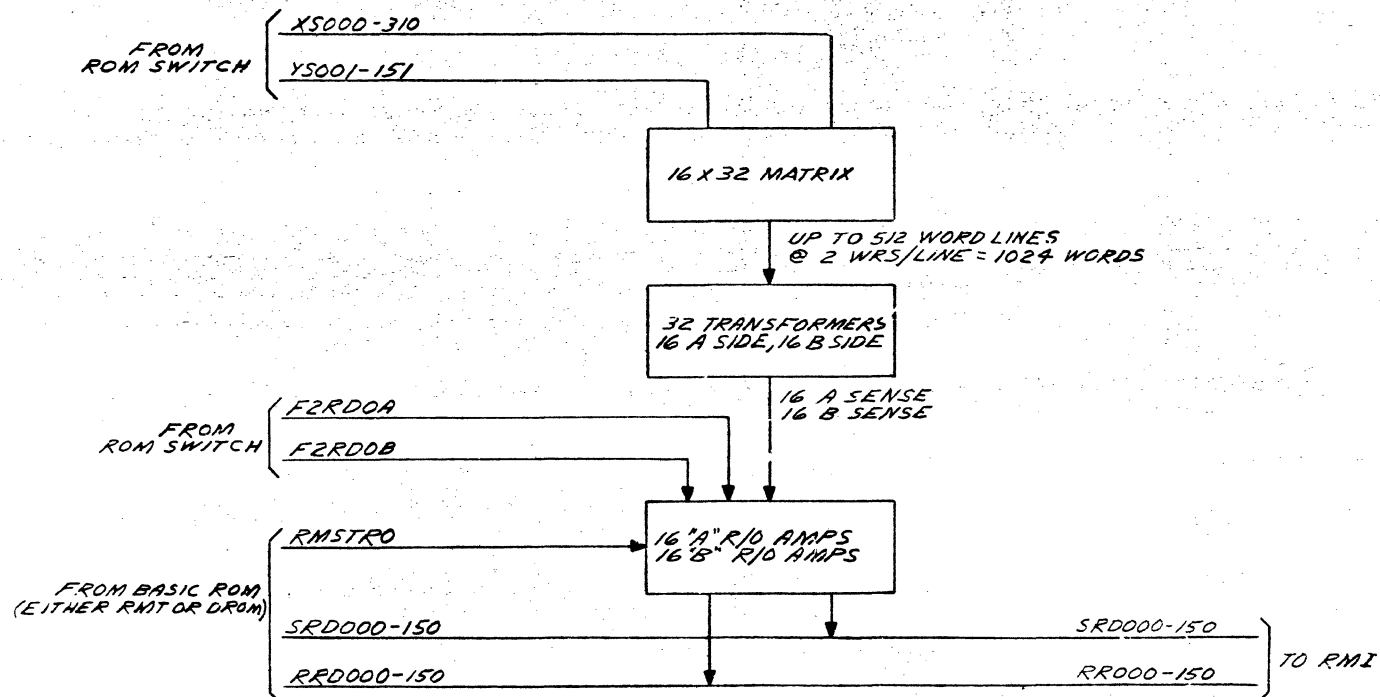
APPROVAL
E. G. White
June 26, 69

DES.
CHKR.
C

DWG. NO. (FS39)
70B113005
CONT. ON SHEET 5
SH. NO. 4

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—						GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC ROM TRANSFORMER FMP GE-PAC 30 FCF	DWG. NO. (FS39) 70B113005 CONT. ON SHEET F SH. NO. 5
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS						
		✓	FRACTIONS	DECIMALS	ANGLES				
			+	+	+				

BLOCK DIAGRAM



MADE BY
G. Ellsworth JUN. 23, 69
ISSUED
JUL 18 1969

APPROVAL

DES.
CHKR. OR

REV. C

DWG. NO. (FS39)
70B113005
CONT. ON SHEET F SH. NO. 5

GENERAL ELECTRIC
PROCESS COMPUTERS
PHOENIX ARIZONA

TITLE FUNCTIONAL SCHEMATIC
DROM TRANSFORMER

DRAWING NUMBER	70B113006	CONT.	PAGE
FIRST MADE FOR	GE-PAC 30	0A	0
(FS40)			

REVISION STATUS

[illegible]

REISSUED

Closed

MADE BY

MADE BY
G. Ellworth JUN 23, 69
ISSUED
July 18, 1969

APPROVAL

OR
E.C. White
June 26, 69

REV.

REVISION STATUS

[illegible]

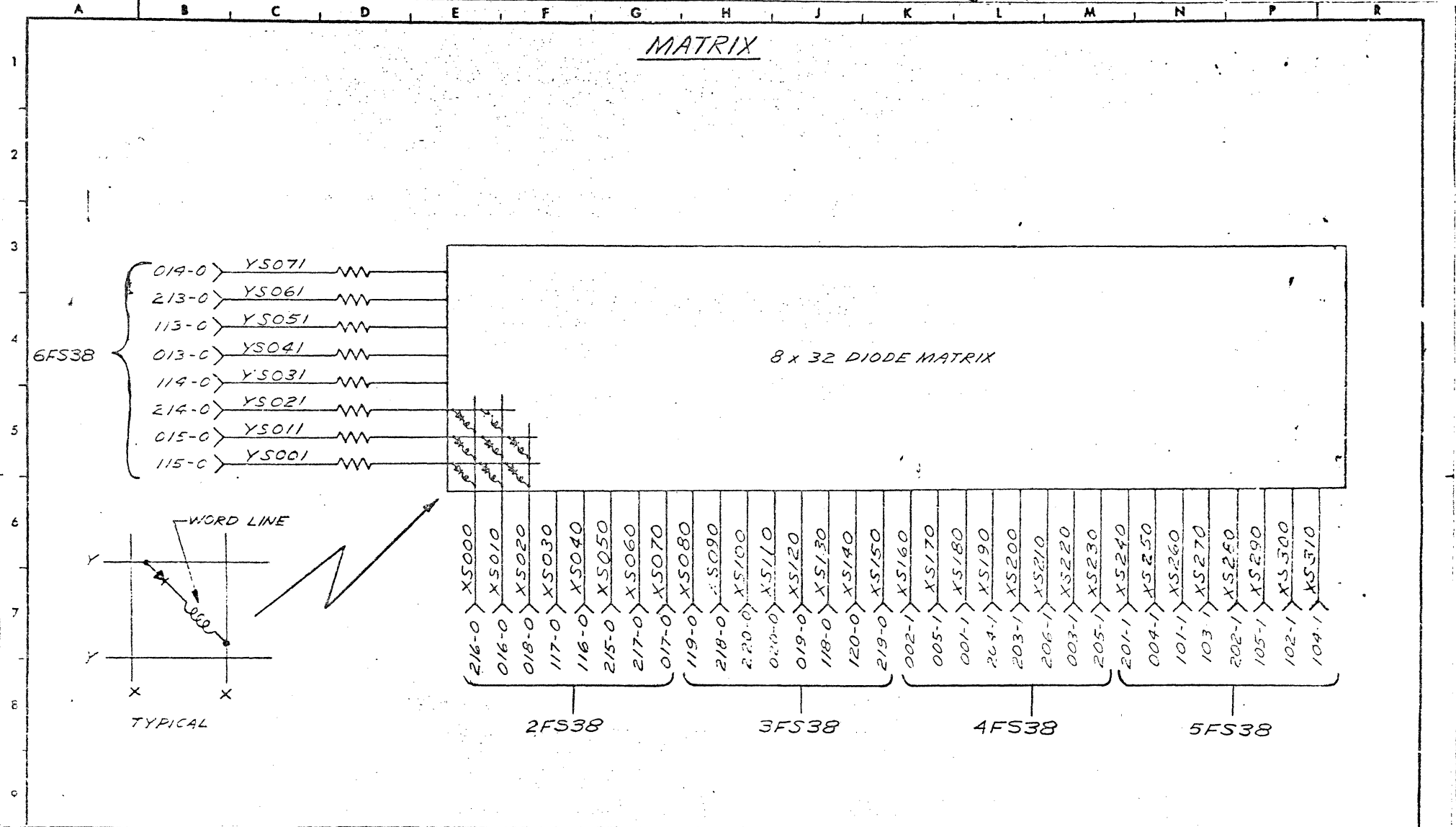
REISSUED

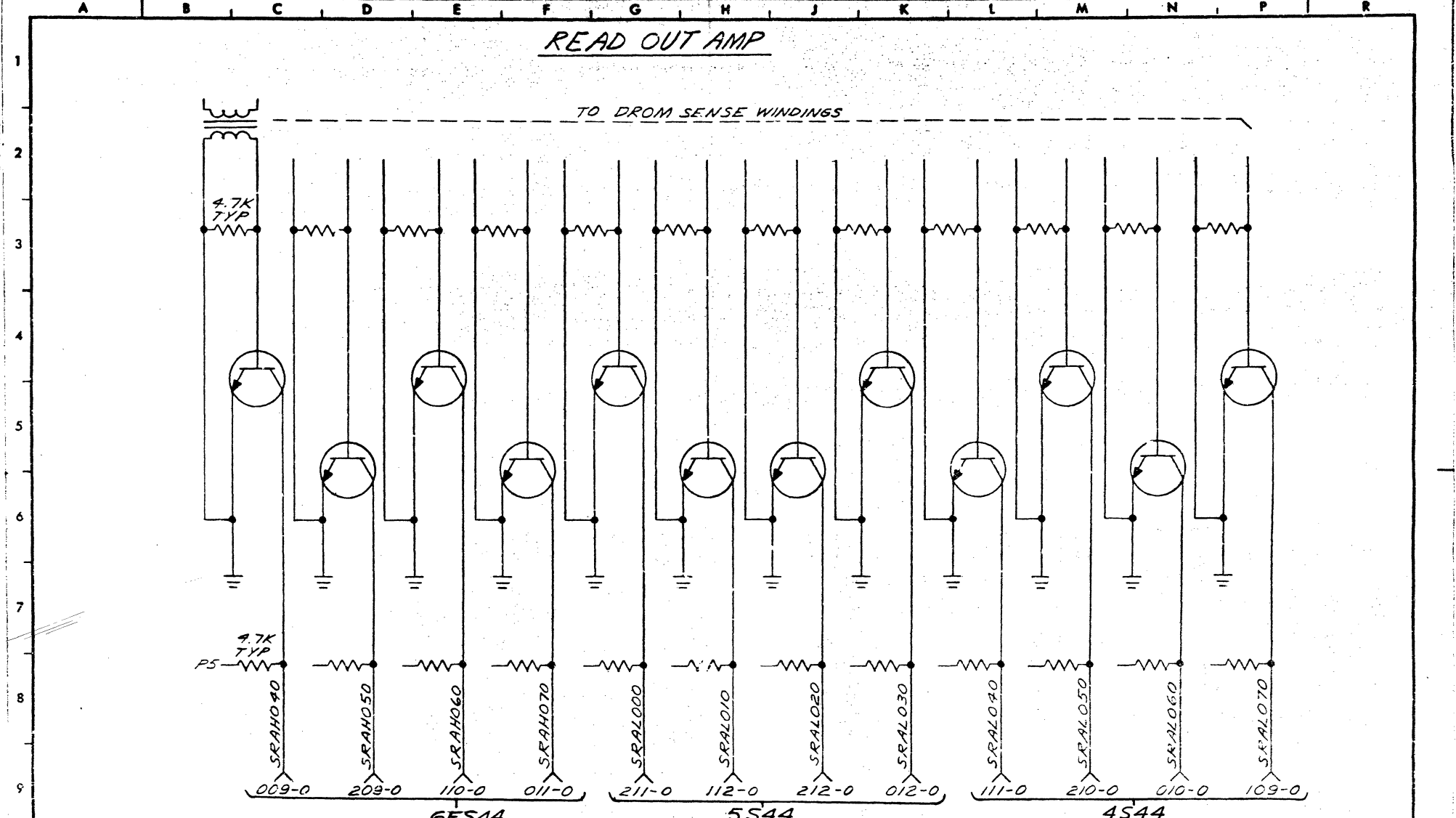
(FS 40)

DWS. NO.	70B113006	CONT.	PAGE
PRINTS TO:	K7-08		0

PCE 2004

[illegible]

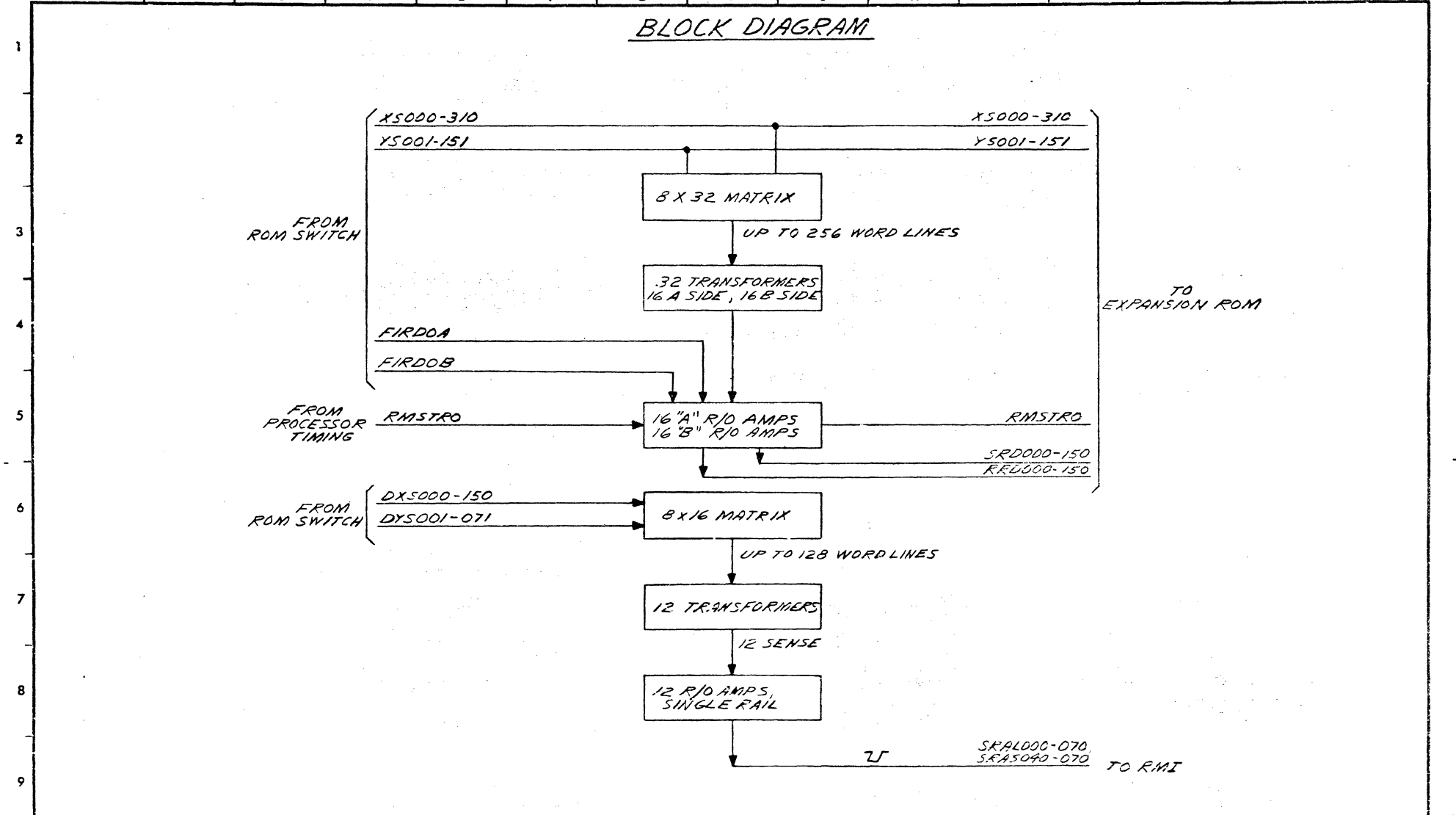




DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING					GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC DROM TRANSFORMER PMW GE-PAC 30	DWG NO (FS40) 70B113006 CONT. ON SHEET 7 SH NO 6
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS	DECIMALS	ANGLES			
			+	+	+			

BACK PANEL MAP																		
CONN POS	09																	
MOTH. BD	DRMT																	
VERT. POS	HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
22		P5	GND															
21	CRD000	CRD010																
20	CRD020	CRD030																
19	CRD040	CRD050																
18	CRD060	CRD070																
17	CRD080	CRD090																
16	CRD100	CRD110																
15	CRD120	CRD130																
14	CRD140	CRD150																
13	SRD140	SRD150																
12	SRD120	SRD130																
11	SRD100	SRD110	FIRDA7															
10	SRD080	SRD090	FIRDB0															
09	SRD060	SRD070	RUM5180															
08	SRD040	SRD050	FIRDA0															
07	SRD020	SRD030	FIRDB0															
06	SRD000	SRD010	XS210															
05	XS170	XS290	XS230															
04	XS250	XS310	XS190															
03	XS220	XS270	XS200															
02	XS160	XS300	XS280															
01	XS180	XS260	XS240															
00		P5	GND															
22		P5	GND															
21																		
20	XS110	XS140	XS100															
19	XS120	XS080	XS150															
18	XS280	XS130	XS090															
17	XS070	XS030	XS060															
16	XS010	XS040	XS000															
15	YS011	YS001	XS050															
14	YS071	YS031	YS021															
13	YS041	YS051	YS061															
12	SRAL030	SRAL010	SRAL020															
11	SRAL070	SRAL040	SRAL000															
10	SRAL060	SRAL050	SRAL080															
09	SRAL090	SRAL070	SRAL030															
08	DXS110	DXS140	DXS020															
07	DXS120	DXS150	DXS080															
06	DXS080	DXS130	DXS100															
05	DXS000	DXS060	DXS070															
04	DXS010	DXS030	DXS040															
03	DXS011	DXS001	DXS050															
02	DXS071	DXS031	DXS021															
01	DXS041	DXS051	DXS061															
00		P5	GND															

MADE BY G. Ellsworth	JUN. 24, '69	APPROVAL	DES.	CHKR.	REV.	C												
JUL 18 1969																		
DWG NO (FS40) 70B113006 CONT. ON SHEET 7 SH NO 6																		



**PROCESS COMPUTERS
PHOENIX ARIZONA**

TITLE FUNCTIONAL SCHEMATIC
ROM INTERFACE

DRAWING NUMBER	70B113007	CONT.	PAGE
FIRST MADE FOR	GE-PAC		
(FS44)			

REVISION STATUS

[illegible]

REVISION STATUS

[illegible]

(FS44)

MADE BY <i>E. Ellsworth</i>	JUN. 24, '69	APPROVAL <i>DR</i>
ISSUED <i>July 18, 1969</i>		<i>S. A. White</i> <i>June 26, 69</i>

DIB. NO. 70B113007	CONT. 0A	PAGE 0
PRINTS TO: K7-08		

DSMT.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—				
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
	✓	FRACTIONS	DECIMALS	ANGLES
		+	+	+

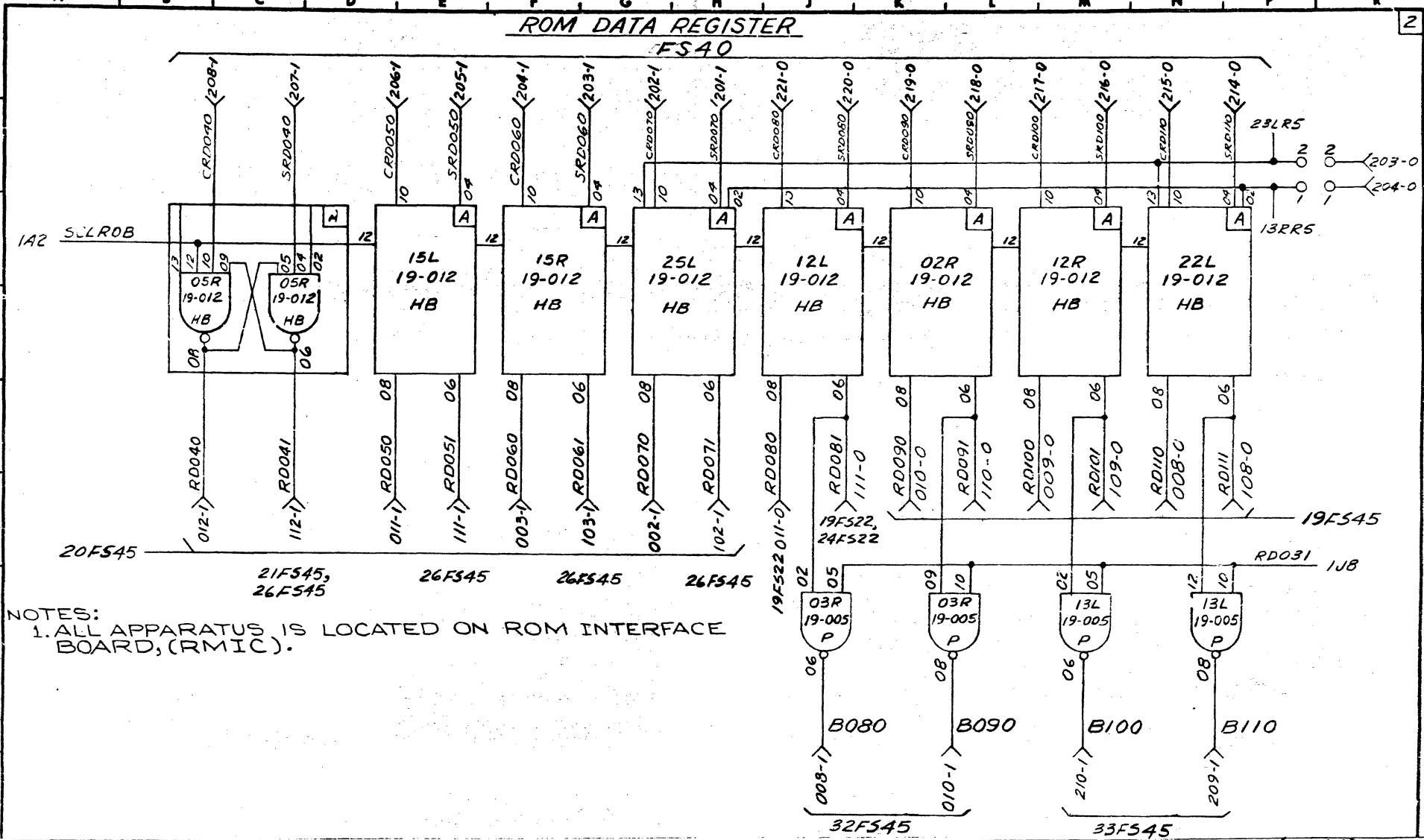
GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
ROM INTERFACE
GE-FAC 30

DWG. NO (FS44)
70B113007
CONT. ON SHEET 3 SH. NO. 2

ROM DATA REGISTER

FS40



NOTES:
1. ALL APPARATUS IS LOCATED ON ROM INTERFACE BOARD, (RMIC).

MADE BY
G. E. H. WORTH JUN. 24, 69
ISSUED
JUL 18 1969

APPROVAL
E. G. WHITE
JUNE 25, 69

DES.
CHKR.
REV.

C

DWG. NO (FS44)
70B113007
CONT. ON SHEET 3 SH. NO. 2

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS		
FRACTIONS	DECIMALS	ANGLES

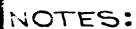
GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
ROM INTERFACE
FORM GE-PAC 30 1 OF 1

DWG. NO. (FS44)

70B113007

CONT. ON SHEET 4 SK. NO. 3



1. ALL APPARATUS LOCATED ON ROM INTERFACE BOARD, (RMIC).

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S. Ellsworth JUN. 24, '69
JUL 18 1969

APPROVAL
E. A. White
June 25, 69

DES.	
CHKR.	OR

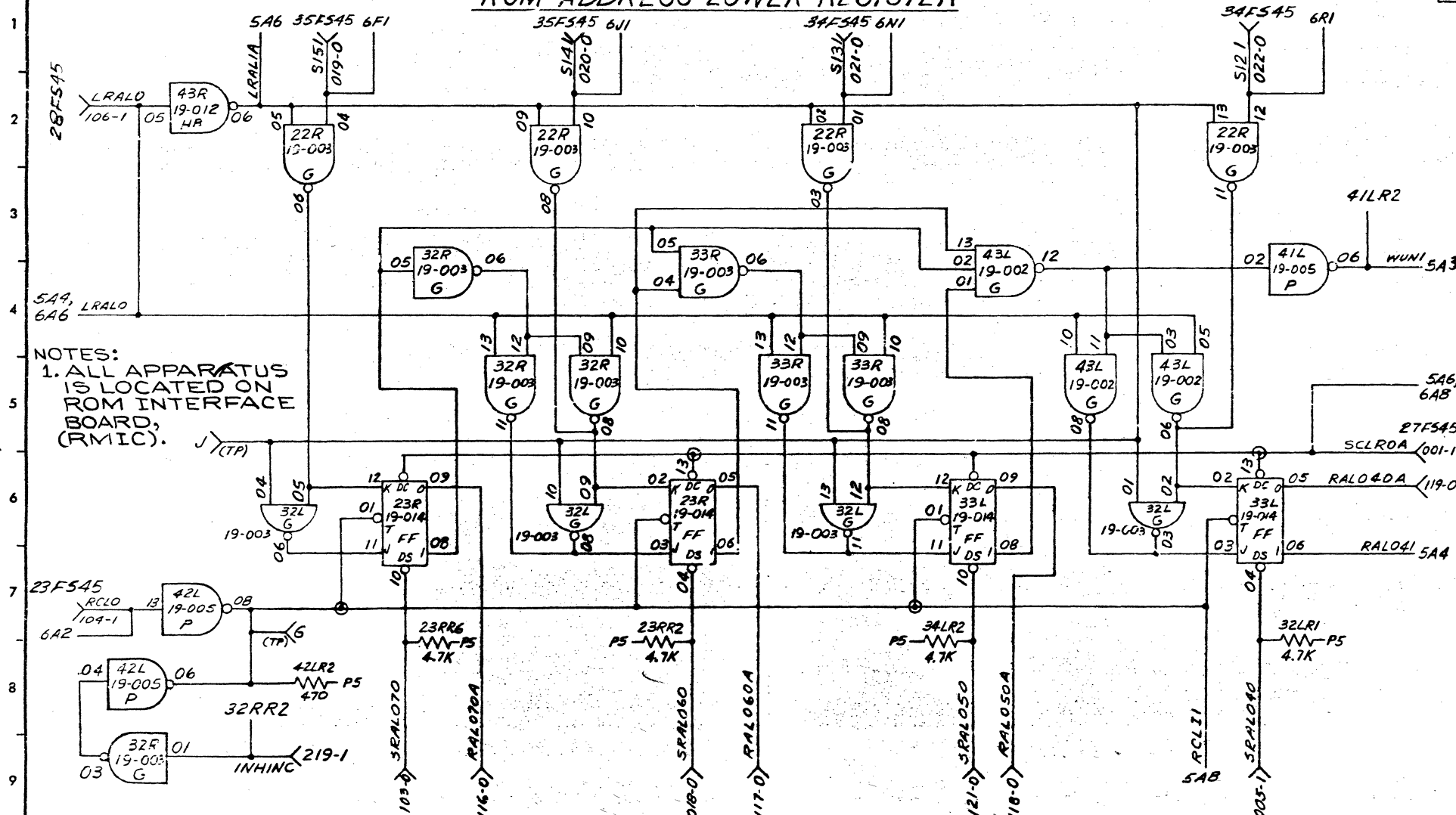
EV.	Ç
-----	---

DWG NO. (FS44)

70B113007

CONT ON SHEET 4 SK NO. 3

ROM ADDRESS LOWER REGISTER



MADE BY
 E. Ellsworth
 JUN 23, '69
 ISSUED
 JUN 18 1969

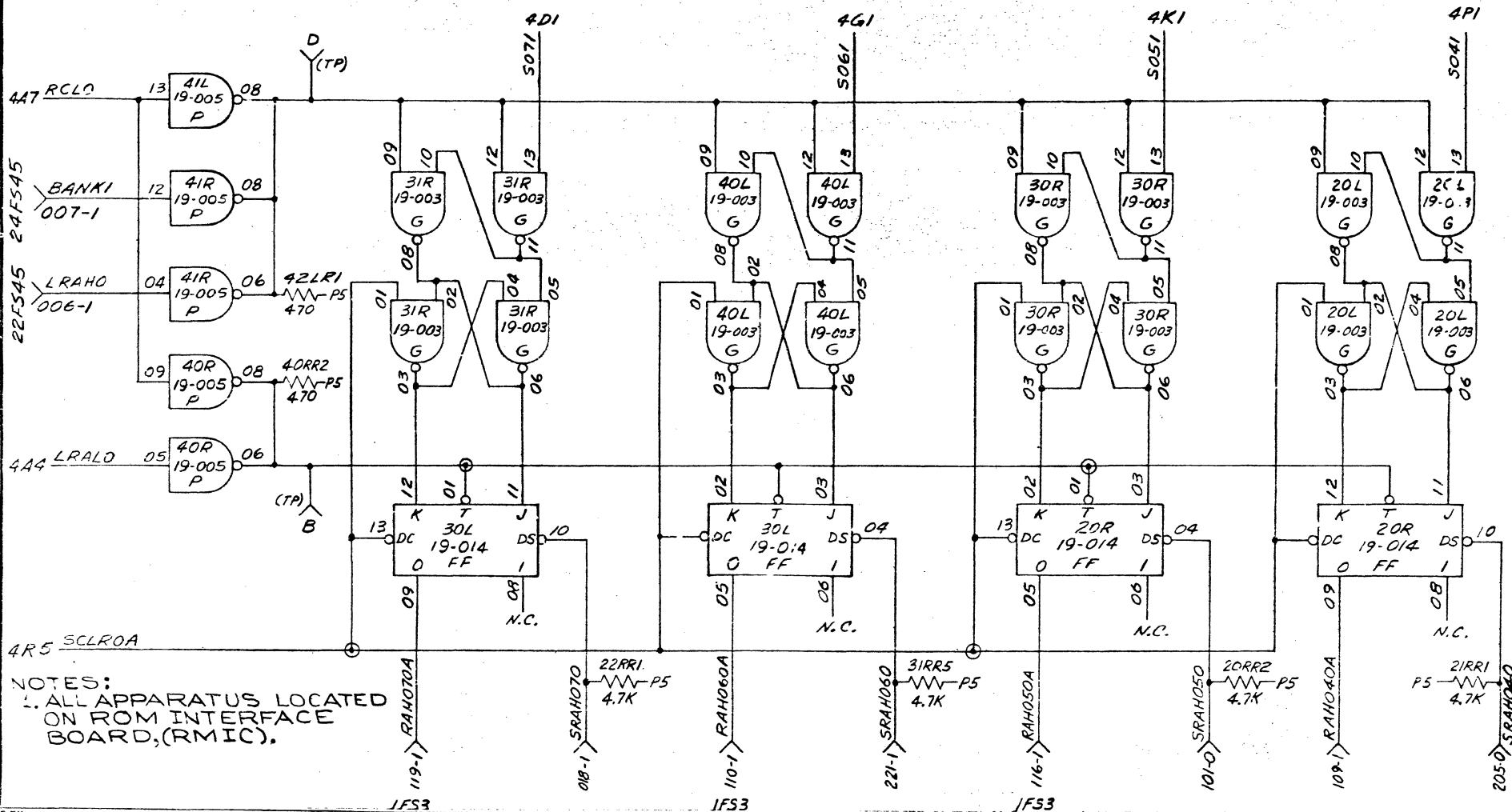
APPROVAL
 E. A. White
 June 25, 69

DES.	REV.	C
CHKR.	OR	

DWG. NO. (FS44)
70B113007
 CONT. ON SHEET 5 SH. NO. 4

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC ROM INTERFACE FNF GE-PAC 30 1 PCF	DWG. NO. (FS44) 70B113007 CONT. ON SHEET 7 SH. NO. 6	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
	✓		FRACTIONS	DECIMALS				ANGLES

ROM ADDRESS HIGHER REGISTER



NOTES:
1. ALL APPARATUS LOCATED ON ROM INTERFACE BOARD, (RMIC).

MADE BY
E. Ellsworth JUN. 24, 69
ISS. CD JUL 18 1969

APPROVAL
S. G. White
June 25, 69

DES.
CHKR DR

REV. C

DWG. NO. (FS44)
70B113007
CONT. ON SHEET 7 SH. NO. 6

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC		TITLE FUNCTIONAL SCHEMATIC		DWG NO (FS44)		
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS			PROCESS COMPUTER		ROM INTERFACE		70B113007	
		✓	+	+	+	PHOENIX		GE-PAC 30		CONT. ON SHEET F SH NO 7	

1

BACK PANEL MAP

CONN POS	10																	
MOTH. BD	RMI																	
VERT. POS	HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
22	S001	P5	GND															
21	S011	RAH000	SRAH060															
20	S021	RAH020	SCLR08															
19	S031	RAH070	INHHNG															
18	SRAH070	RNI010	CRD000															
17	DRD001	RAH030	SRD000															
16	DRD000	RAH050	CRD010															
15	DRD010	DRD011	SRD010															
14	DRD020	DRD021	CRD020															
13	RD030	RD031	SRD020															
12	RD040	RD041	CRD030															
11	RD050	RD051	SRD030															
10	B010	RAH060	B020															
09	B040	RAH040	B030															
08	B000	RD001	CRD040															
07	BANK1	RD011	SRD040															
06	LRAH0	LRAH0	CRD050															
05	SRAH040	RD021	SRD050															
04	B060	RCL0	CRD060															
03	RD060	RD061	SRD060															
02	RD070	RD071	CRD070															
01	SCLR0A	B070	SRD070															
00	B050	P5	GND															

22	S041	P5	GND															
21	S051	SRAH050	CRD080															
20	S061	SCLR1	SRD080															
19	S071	RAH040	CRD090															
18	RAH060	RAH050	SRD090															
17	RAH030	RAH060	CRD100															
16	DF000	RAH070	SRD100															
15	DF010	DF001	CRD110															
14	DF020	DF011	SRD110															
13	DF021	CRD120																
12	SRAH020	DF031	SRD120															
11	RD080	RD081	CRD130															
10	RD090	RD091	SRD130															
09	RD100	RD101	CRD140															
08	RD110	RD111	SRD140															
07	RD120	RD121	CRD150															
06	RD130	RD131	SRD150															
05	RD140	RD141	SRAH080															
04	RD150	RD151	DF071															
03	RD010	SRAH070	DF061															
02	RD020	SRAH000	DF051															
01	RD000	SRAH050	DF041															
00	SRAH010	P5	GND															

2

3

4

5

6

7

8

9

MADE BY <i>E. G. Ellsworth</i>	DES. <i>E. G. White</i>	CHKR. <i>DR</i>	REV. <i>C</i>	DATE <i>JUN. 24, 69</i>	APPROVAL <i>June 25, 69</i>	DWG. NO. (FS44) 70B113007
					CONT. ON SHEET F SH NO. 7	

GENERAL ELECTRIC
PROCESS COMPUTERS
PHOENIX ARIZONA

[illegible]

APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
	✓	FRACTIONS	DECIMALS	ANGLES
		+	+	+

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE **FUNCTIONAL SCHEMATIC**
PROCESSOR (MOD 30-2)
 FWF **GE-PAC 30** FCF

DWG NO (FS 45)
70B113008
 CONT. ON SHEET 1 SH NO

SHEET INDEX

CONTENTS	SHEET NO.	SHEET ISSUE																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CLOCK CONTROL	22	/	2	2	2																
CLOCK GENERATORS	23	/	2	2	2																
I/O CONTROL	24	/	2	2	2																
	25	/	2	2	2																
ARITHMETIC CARRY CKT	26	/	2	2	2																
ARITHMETIC LOGIC UNIT	27	/	2	2	2																
	28	/	2	2	2																
BACK PANEL MAP	29	/	/	/	/																
	30	/	/	/	/																
BLOCK DIAGRAM	31	/	/	/	/																

SUPPORTING INFORMATION

CATEGORY	PART NO.

SHEET INDEX NOTES:

1. CHANGES ON THIS DRAWING SHALL REQUIRE ONLY THE REISSUE OF SHEETS AFFECTED.
2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.

MADE BY *Katayish* JUNE 24, 69
 ISSUED: **JUL 18 1969**

APPROVAL *E. G. White*
 June 25, 69

DES. *DR*
 CHKR *DR*

REV. *E*

DWG. NO (FS 45)
70B113008
 CONT. ON SHEET 1 SH NO. C

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:

APPLIED PRACTICES	SURFACES	TOLERANCES ON DEFINED DIMENSIONS		
	✓	FRACTIONS	DECIMALS	ANGLES
		+	+	+

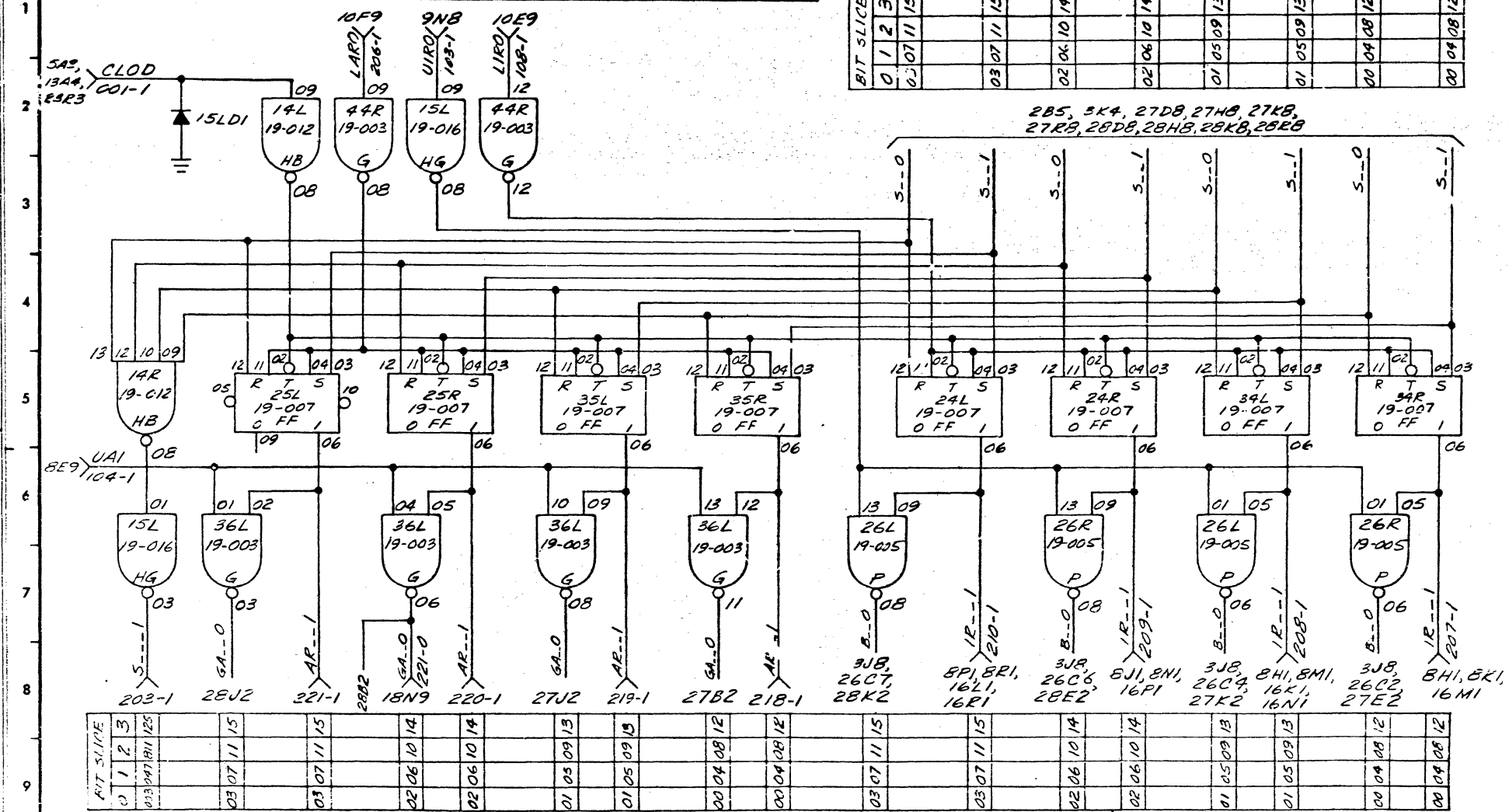
GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE **FUNCTIONAL SCHEMATIC**
PROCESSOR (MOD 30-2)
 FMF GE-PAC 30

DWG NO. (FS 45)
70B113008
 CONT. ON SHEET 2 SH. NO.

A REGISTER & INSTRUCTION REGISTER

BIT SLICE	0	1	2	3														
	0	1	2	3														
	0	1	2	3														



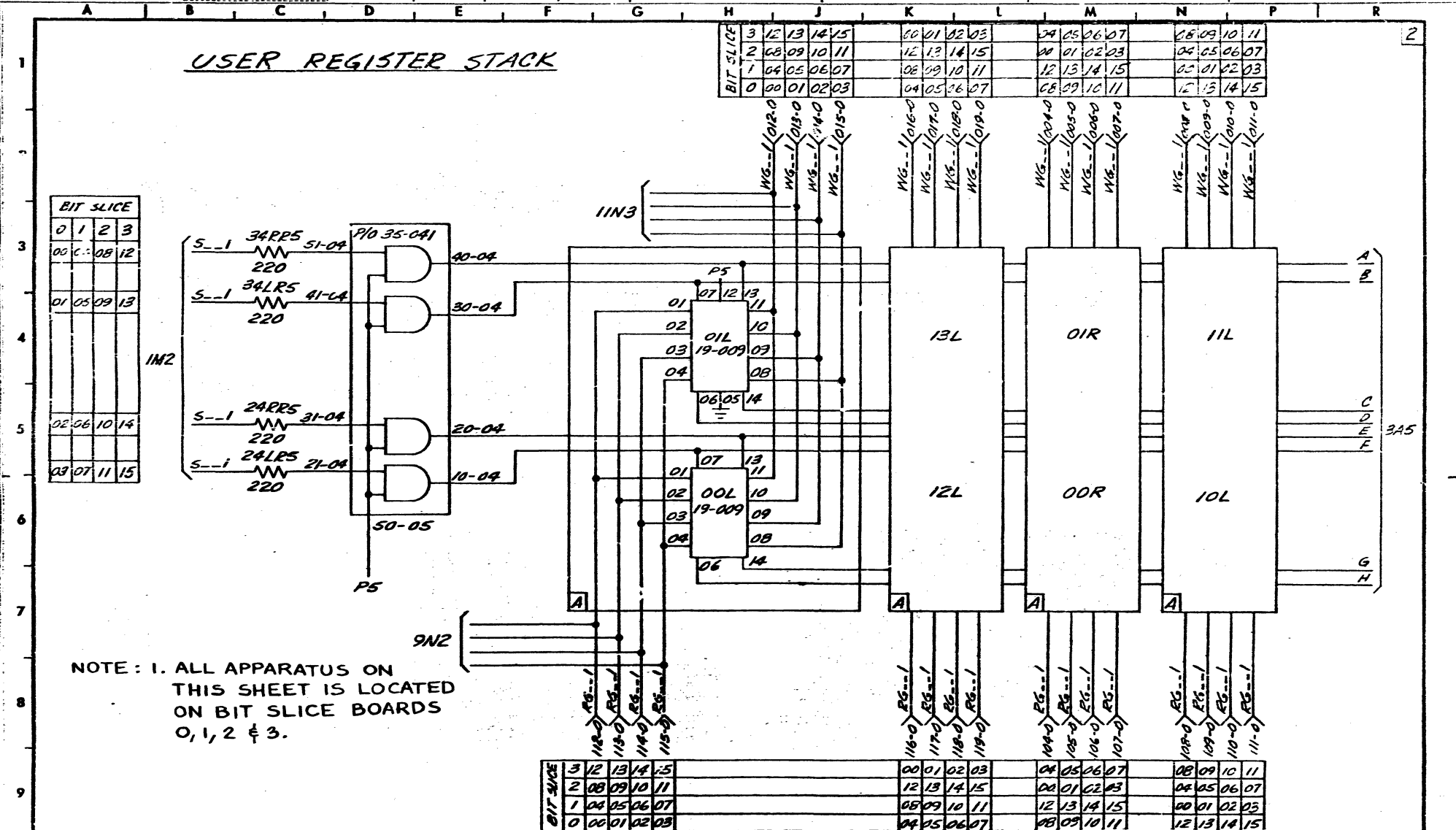
MADE BY
 ISSUED
 JUL 18 1969

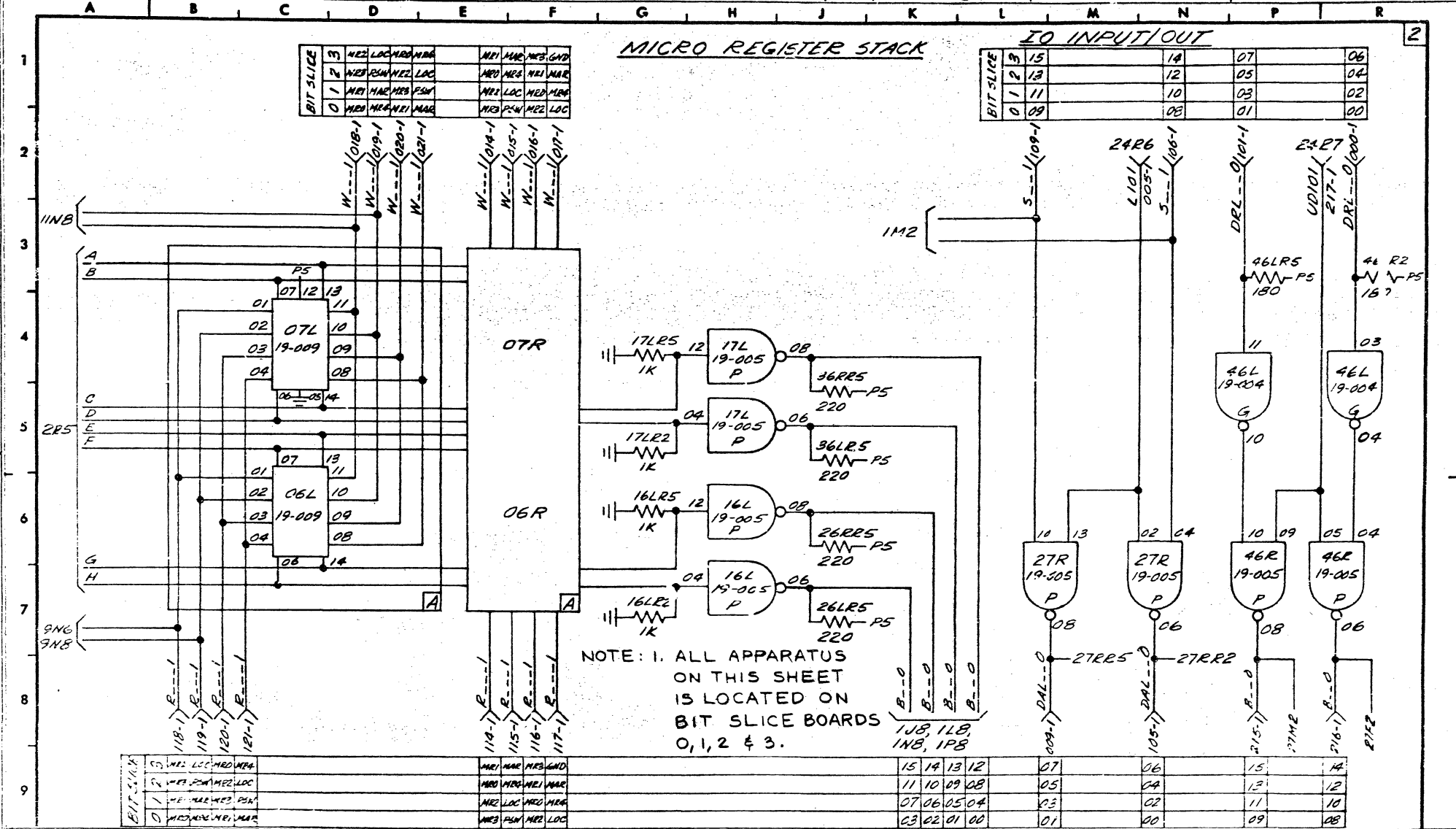
APPROVAL
 E. A. White
 June 25, 69

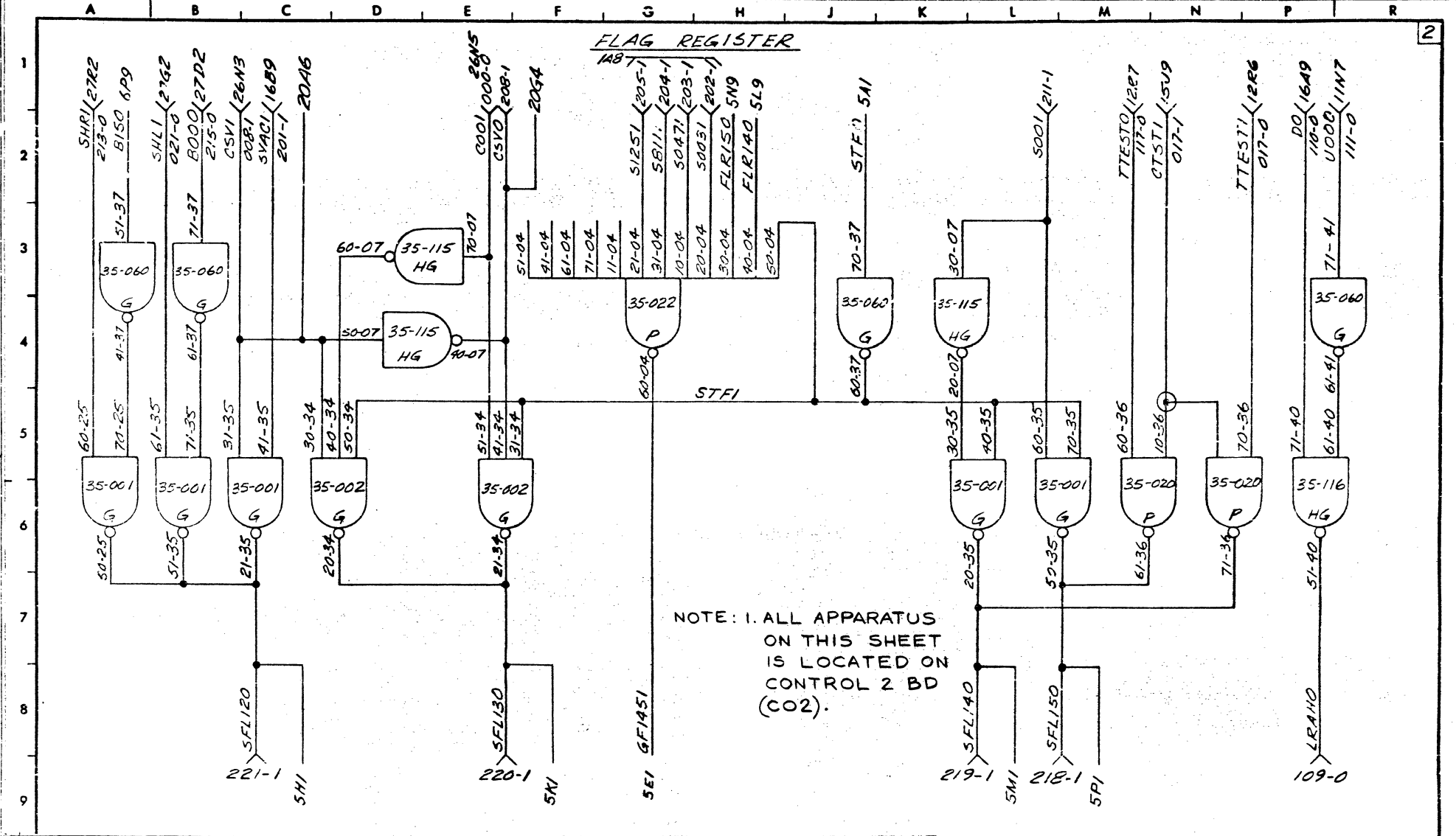
DES.
 CHK.
 REV.

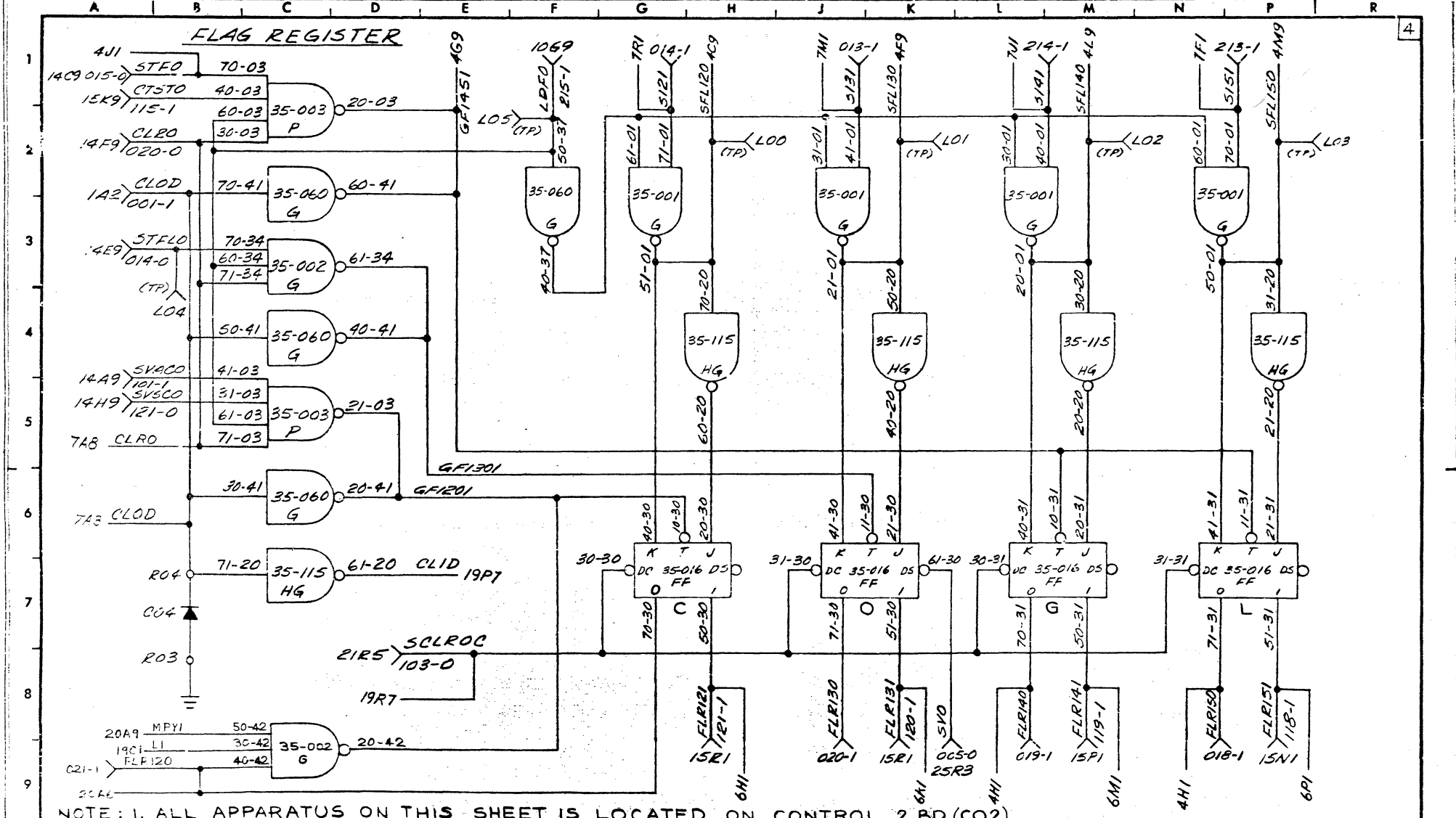
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DWG. NO. (FS 45)
70B113008
 CONT. ON SHEET 2 SH. NO. 1

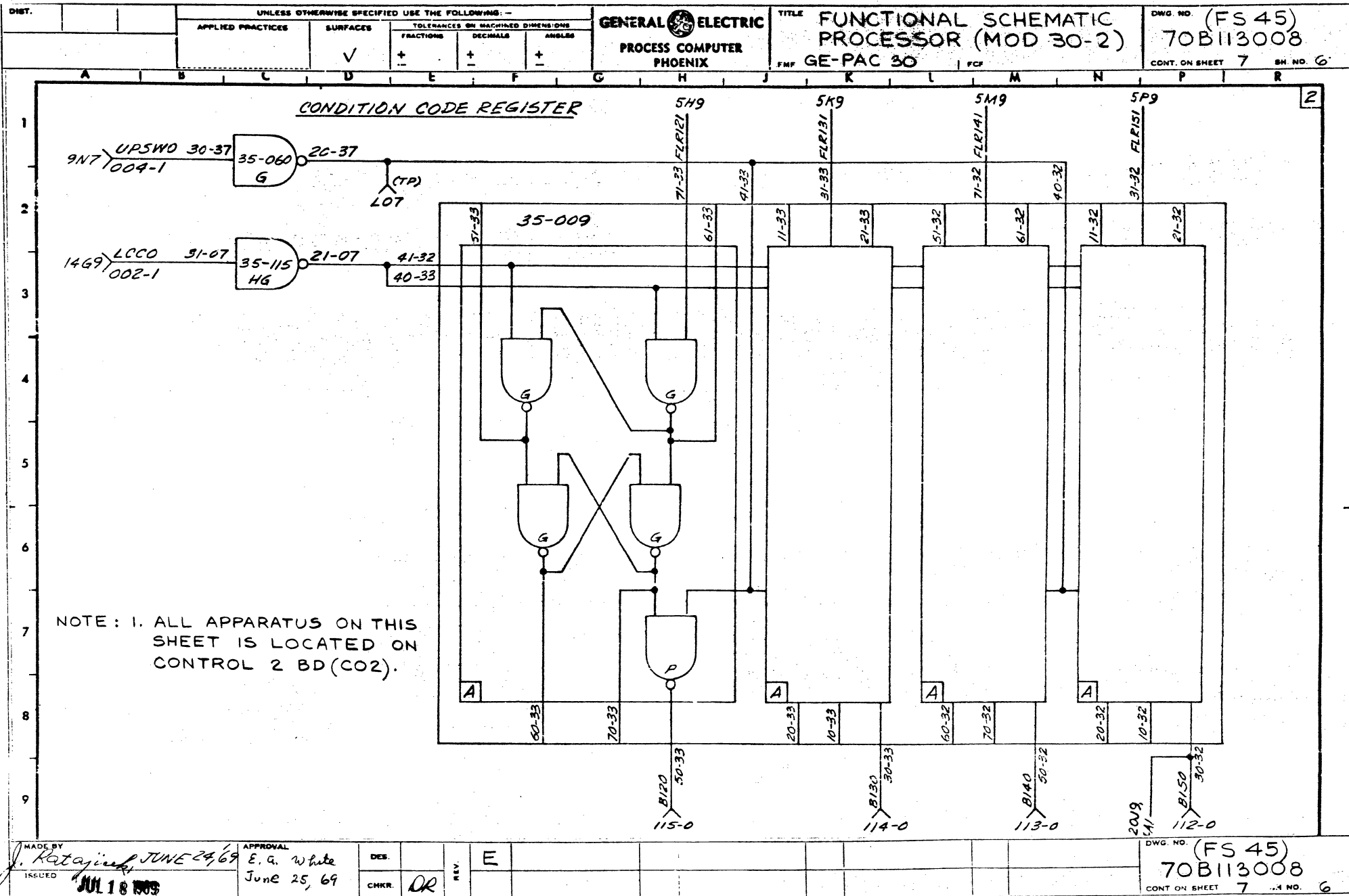








NOTE: 1. ALL APPARATUS ON THIS SHEET IS LOCATED ON CONTROL 2 BD (CO2).



MADE BY
J. Katagiri
 ISSUED
JUL 18 1969

APPROVAL
E. G. White
 June 25, 69

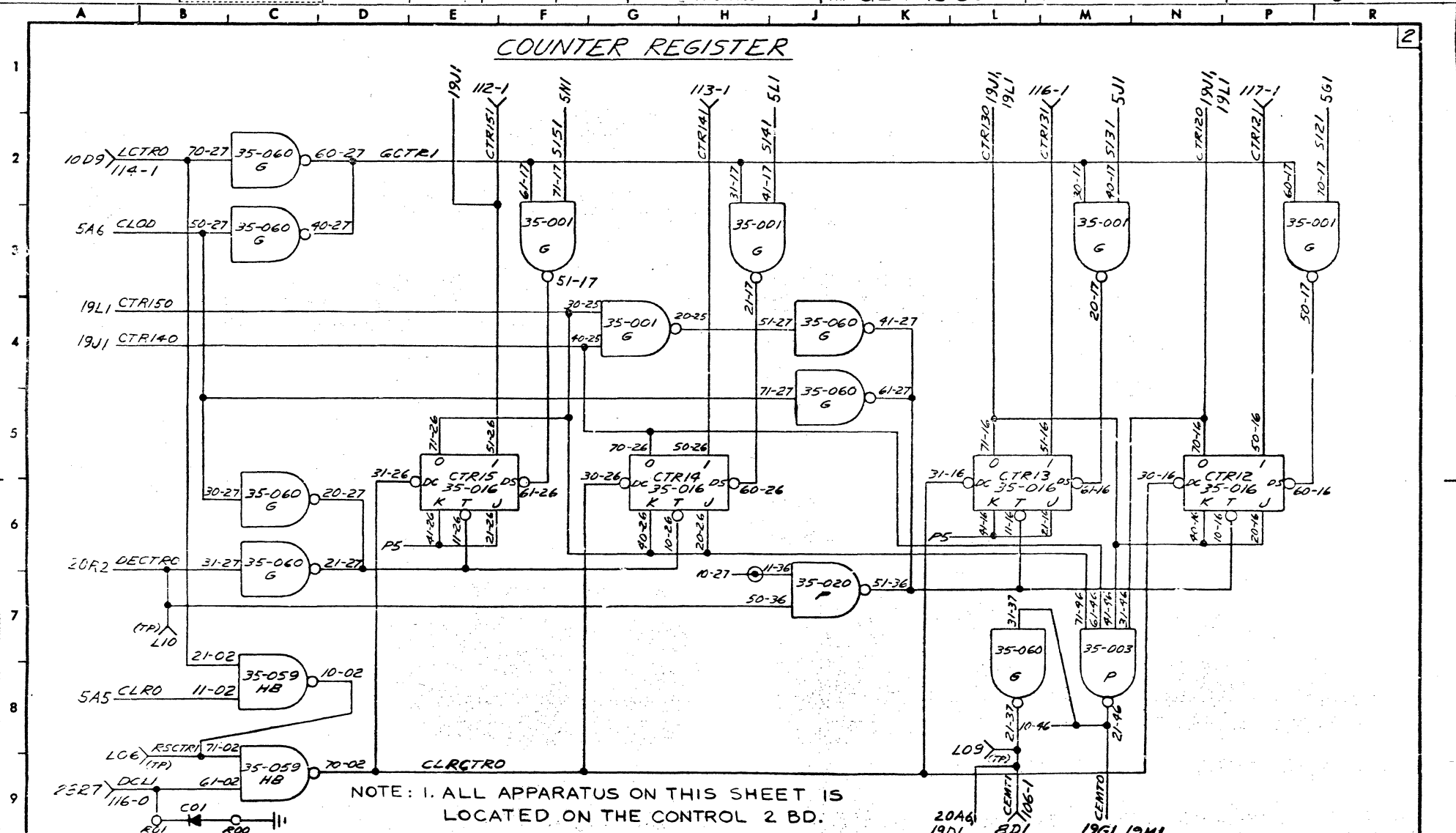
DES.
 CHKR. *DR*

REV.
 E

DWG. NO. (FS 45)
70B113008
 CONT. ON SHEET 7 SH. NO. 6

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC PROCESSOR (MOD 30-2) FMP GE-PAC 30	DWC NO. (FS 45) 70B113008	CONT. ON SHEET 8	SH NO. 7
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS						
			FRACTIONS	DECIMALS					
		✓	+	+	+				

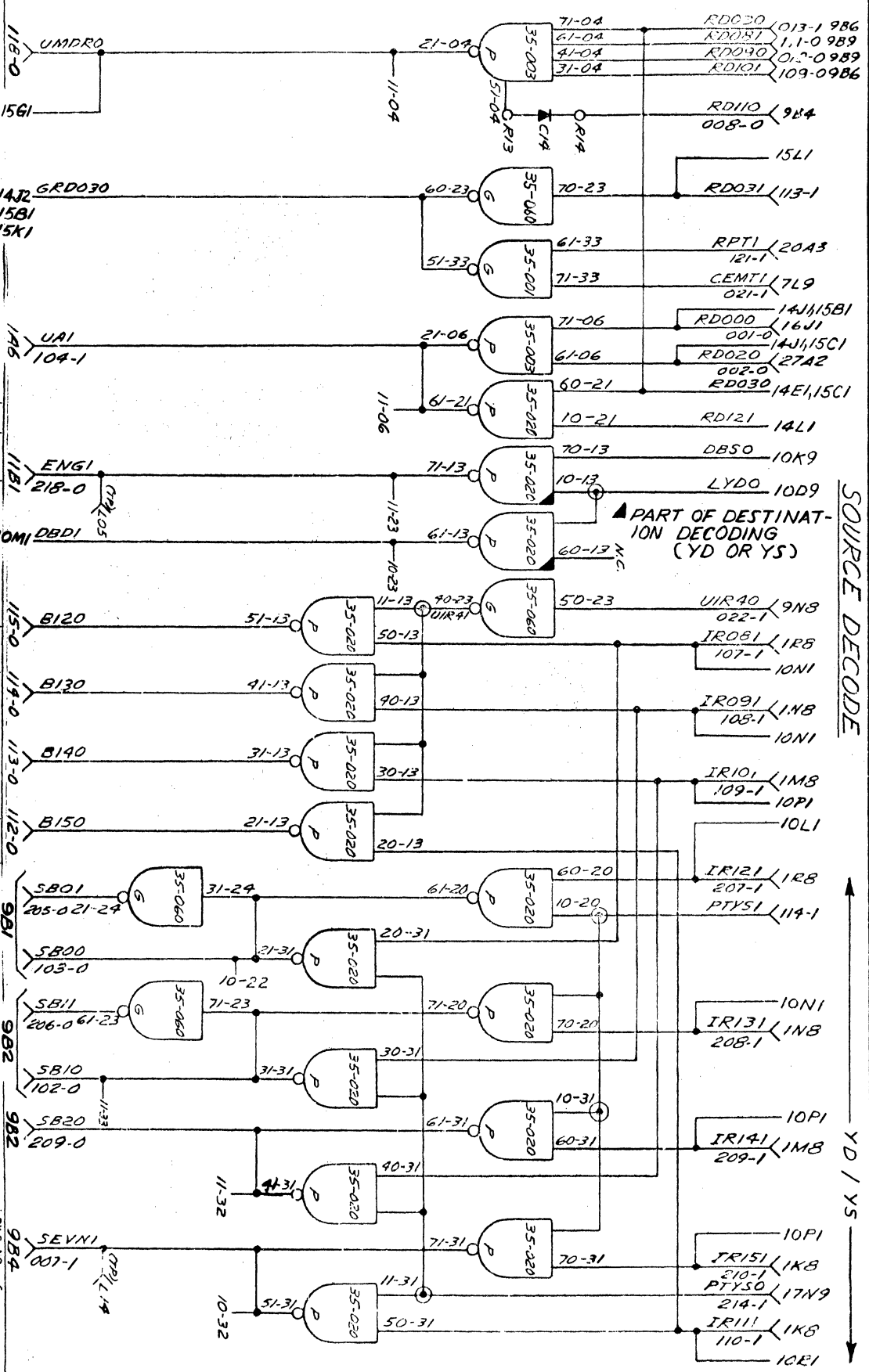
COUNTER REGISTER



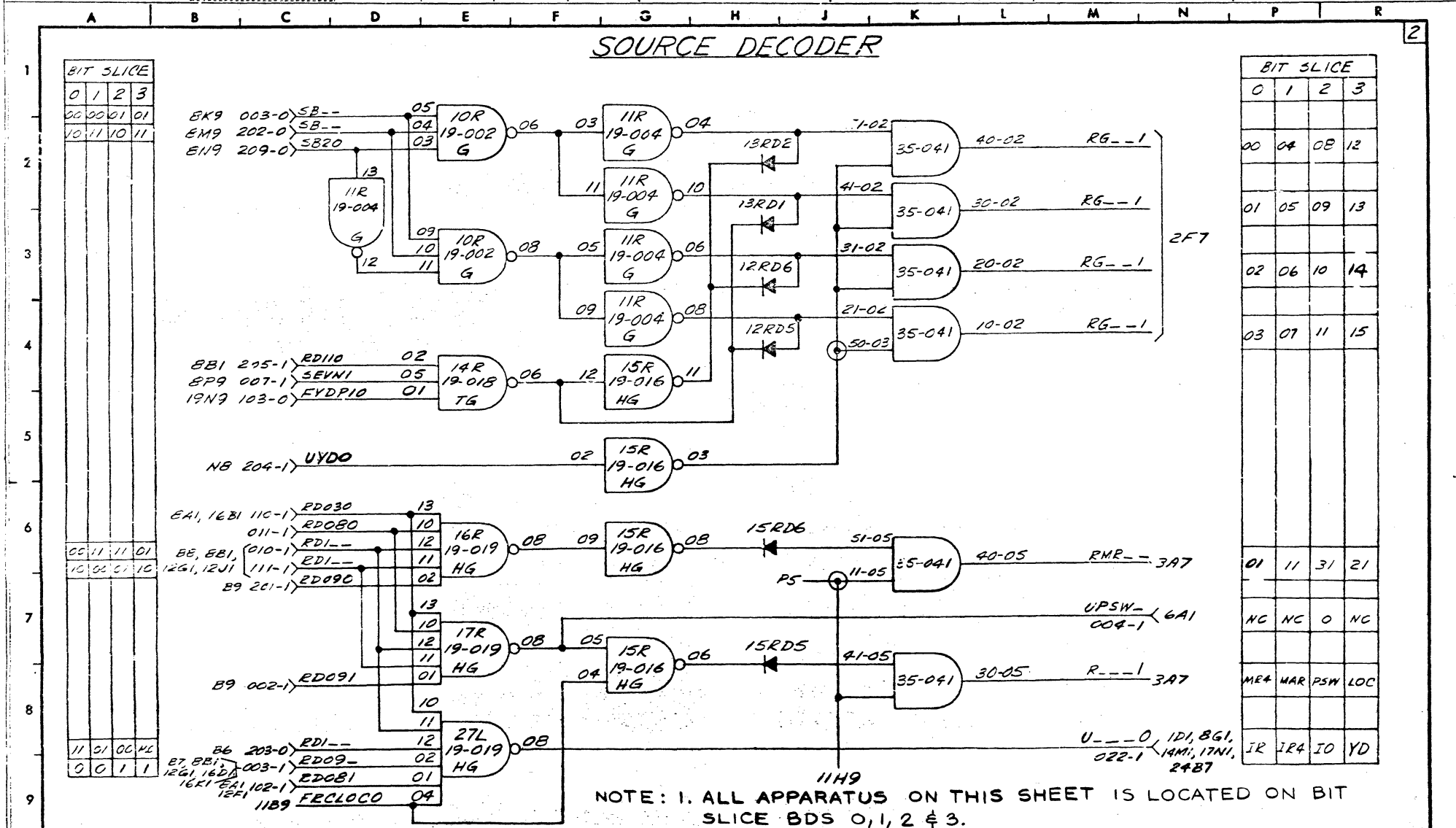
MADE BY J. Katayama	APPROVAL E. A. White	DES.	REV.	E																
ISSUED JUL 18 1969	June 25, 69	CHKR.	DR																	

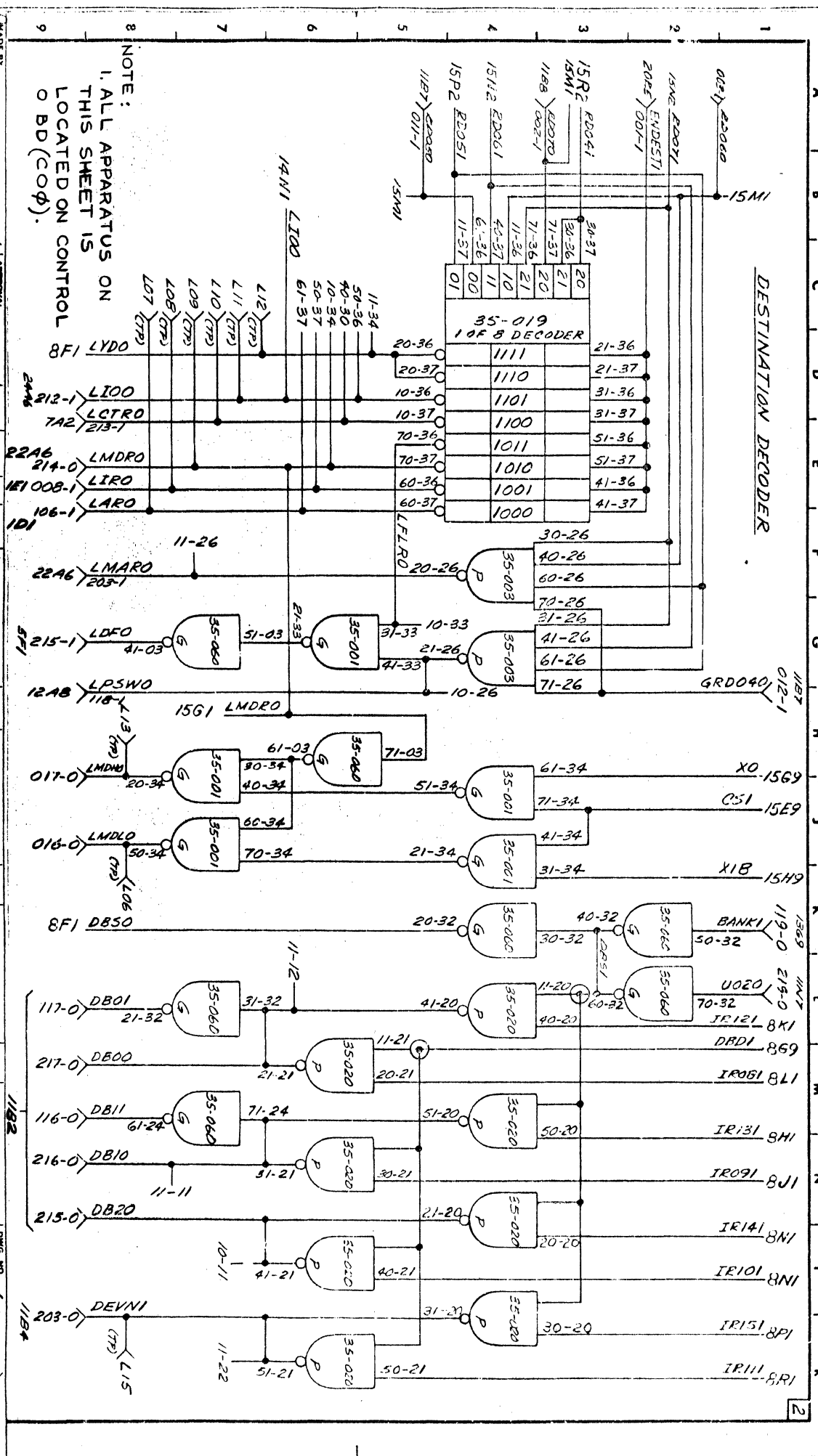
DWC NO. (FS 45) 70B113008	CONT. ON SHEET 8	SH NO. 7
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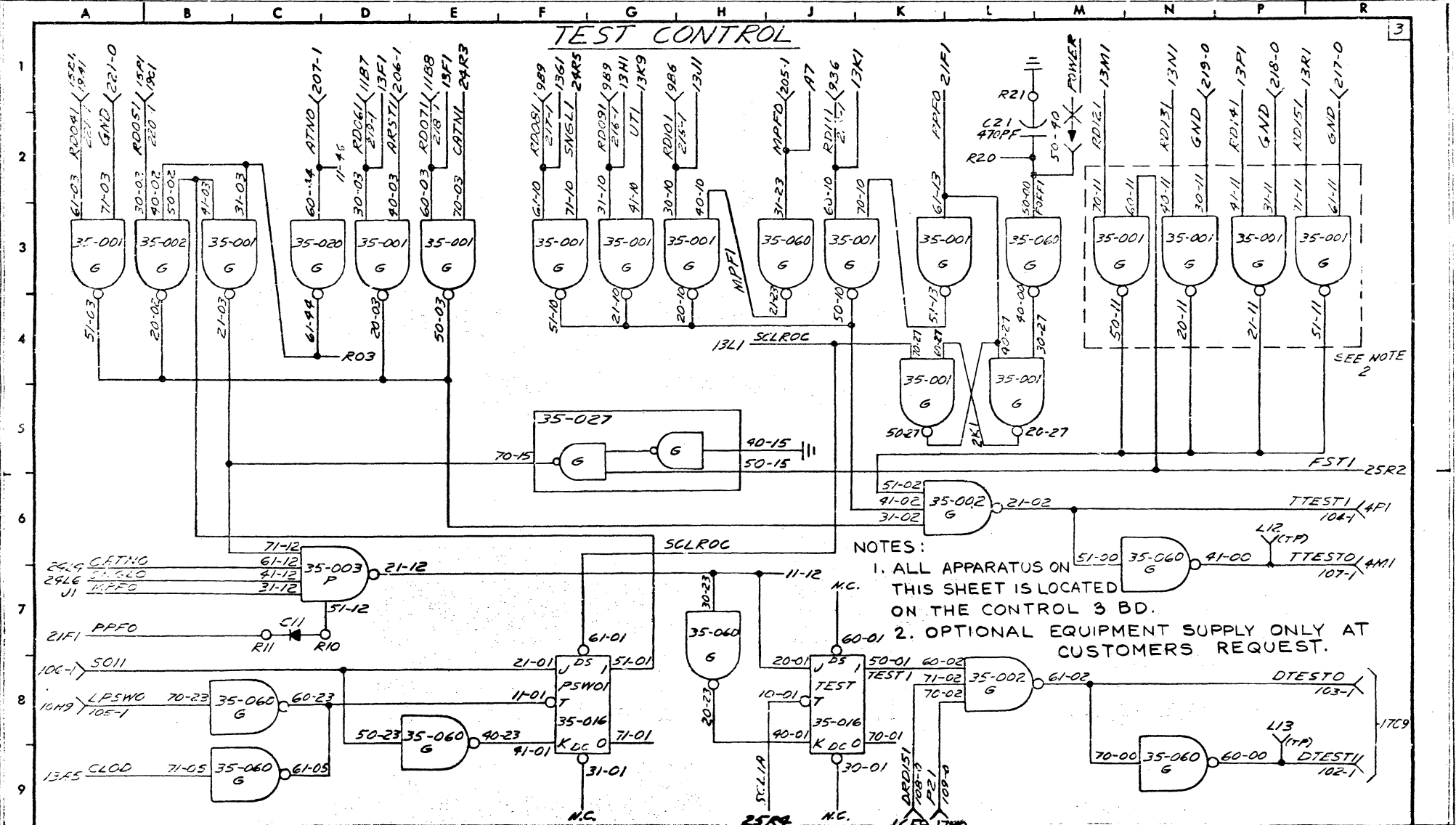
NOTE: 1. ALL APPARATUS ON THIS SHEET IS LOCATED ON THE CONTROL ϕ BD.



MADE BY: K. A. White
 JUL 18 1969
 DES. CKMR. REV. E
 70B113008 (FS 45)
 CONT. ON SHEET 9 SH. NO. 8







- NOTES:**
1. ALL APPARATUS ON THIS SHEET IS LOCATED ON THE CONTROL 3 BD.
 2. OPTIONAL EQUIPMENT SUPPLY ONLY AT CUSTOMERS REQUEST.

DWT.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --

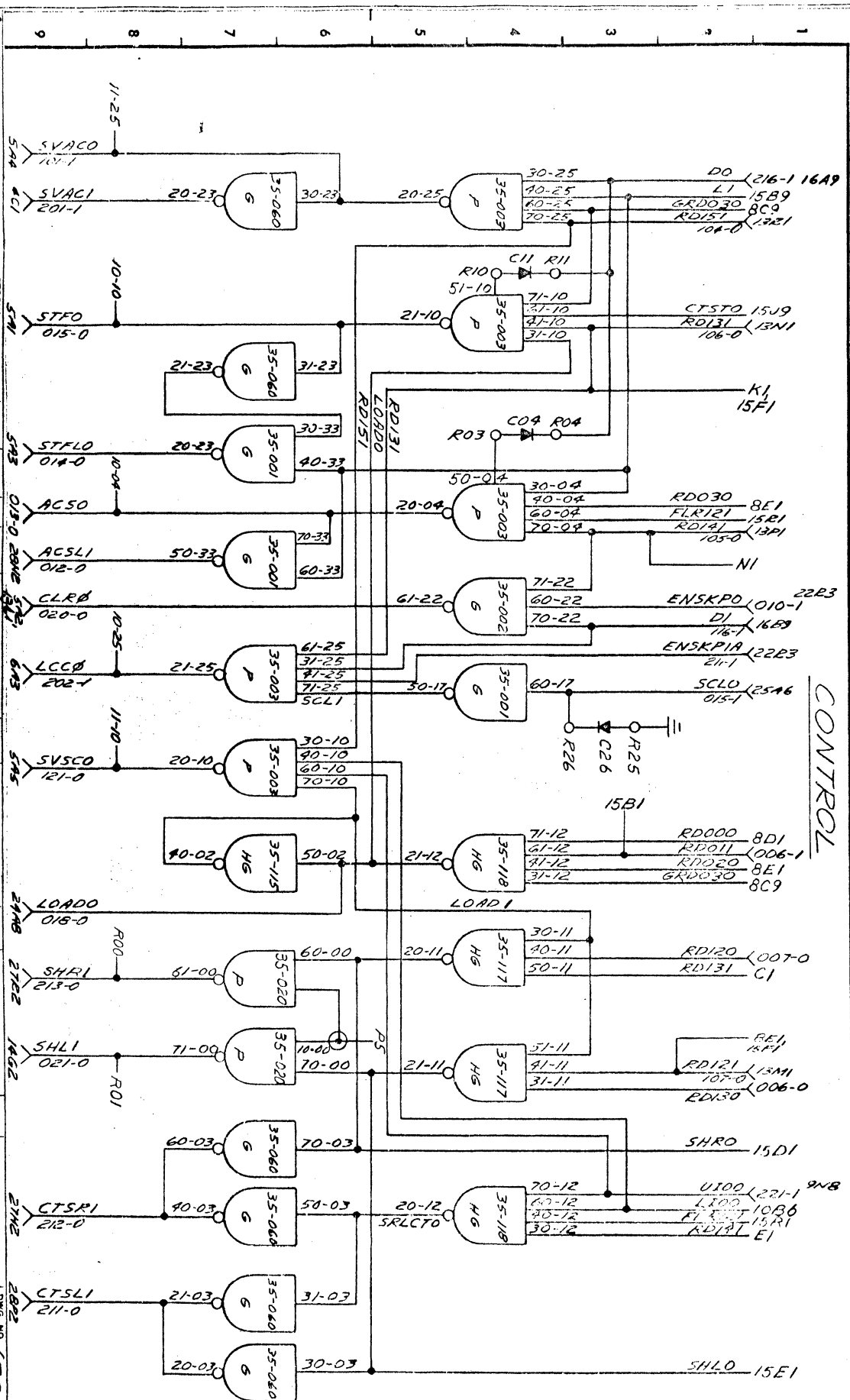
TOLERANCES ON MEASURED DIMENSIONS	
FRACTIONS	DECIMALS
+	+
+	+
+	+

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)
GE-PAC 30

DWG. NO. (FS 45)
70B113008
CONT. ON SHEET 15

14



NOTE: 1. ALL APPARATUS ON THIS SHEET IS LOCATED ON THE CONTROL Ø BD.

MADE BY
J. Kalying JUNE 24, 69 C.A. White
ISSUED
JUL 18 1969

DESIGN
CHECKED
REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

REV. E

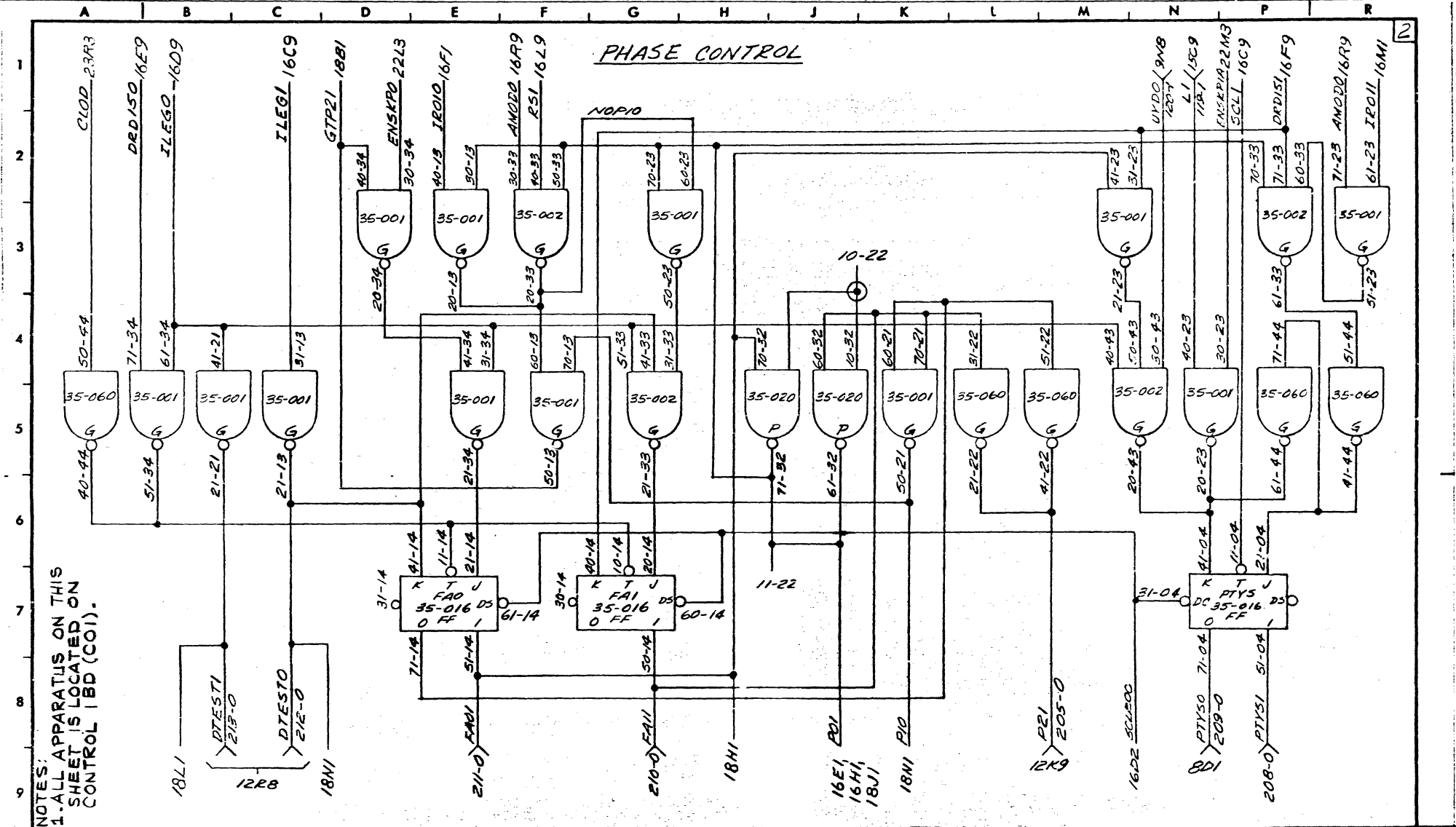
REV. E

REV. E

REV. E

REV. E

REV. E



DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

✓

+

+

+

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIX

TITLE

FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)

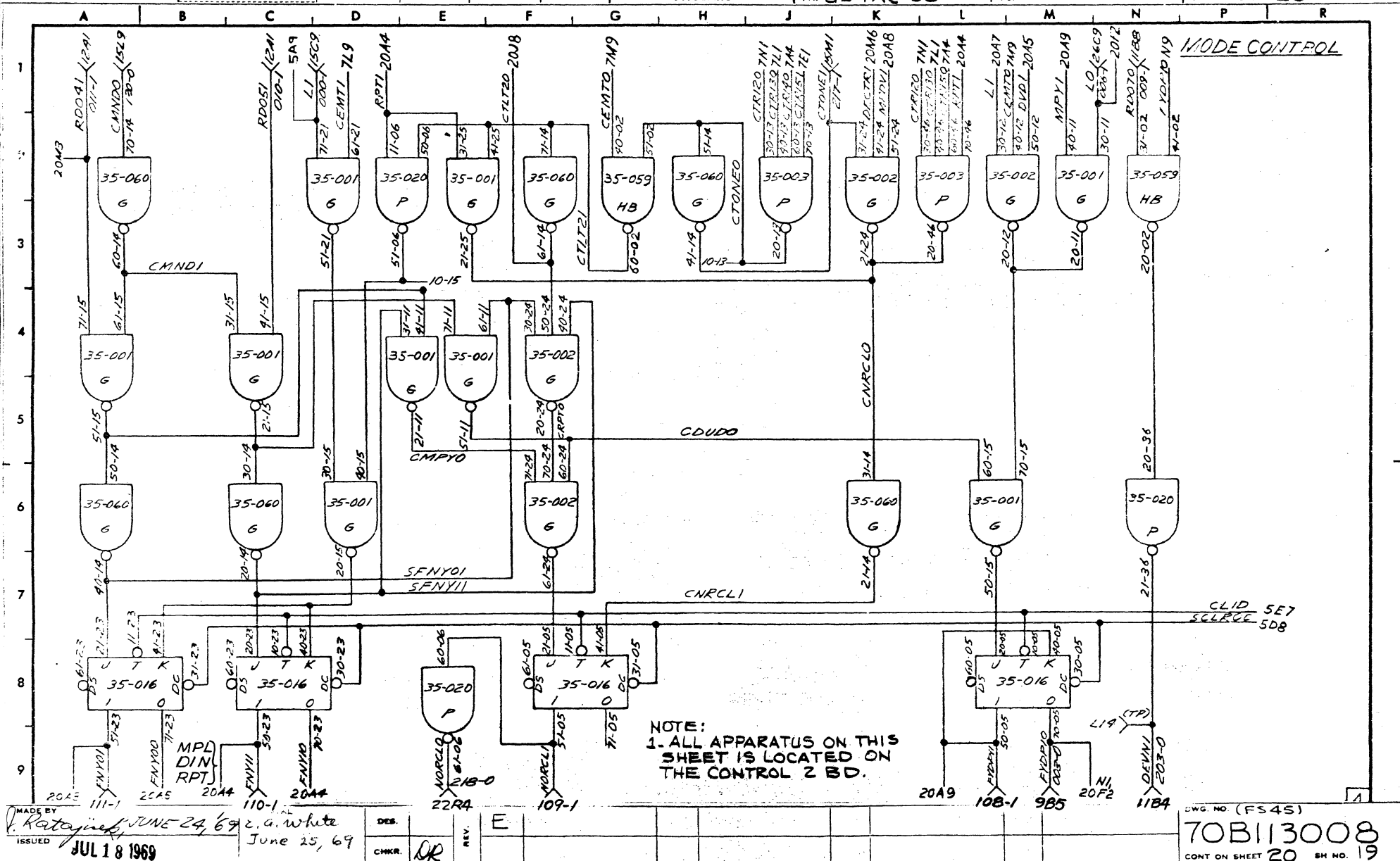
FMF GE-PAC 30

I FCF

DWG NO (FS45)

70B113008

CONT. ON SHEET 20 SK NO 19



MADE BY
K. R. KATAYE
ISSUED
JUL 18 1969

DES.
C. A. WHITE
JUNE 25, 69

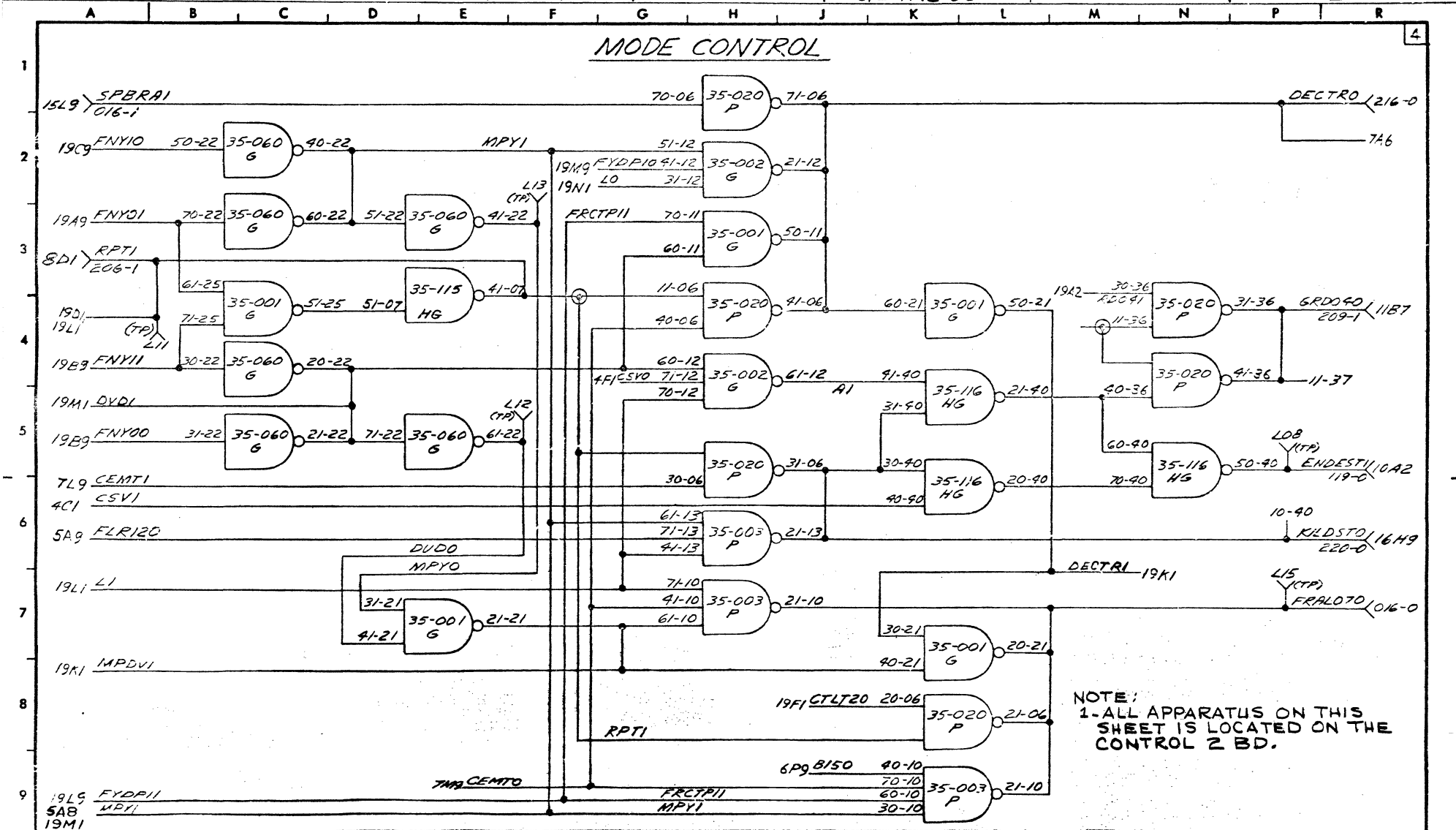
CHKR.
DR

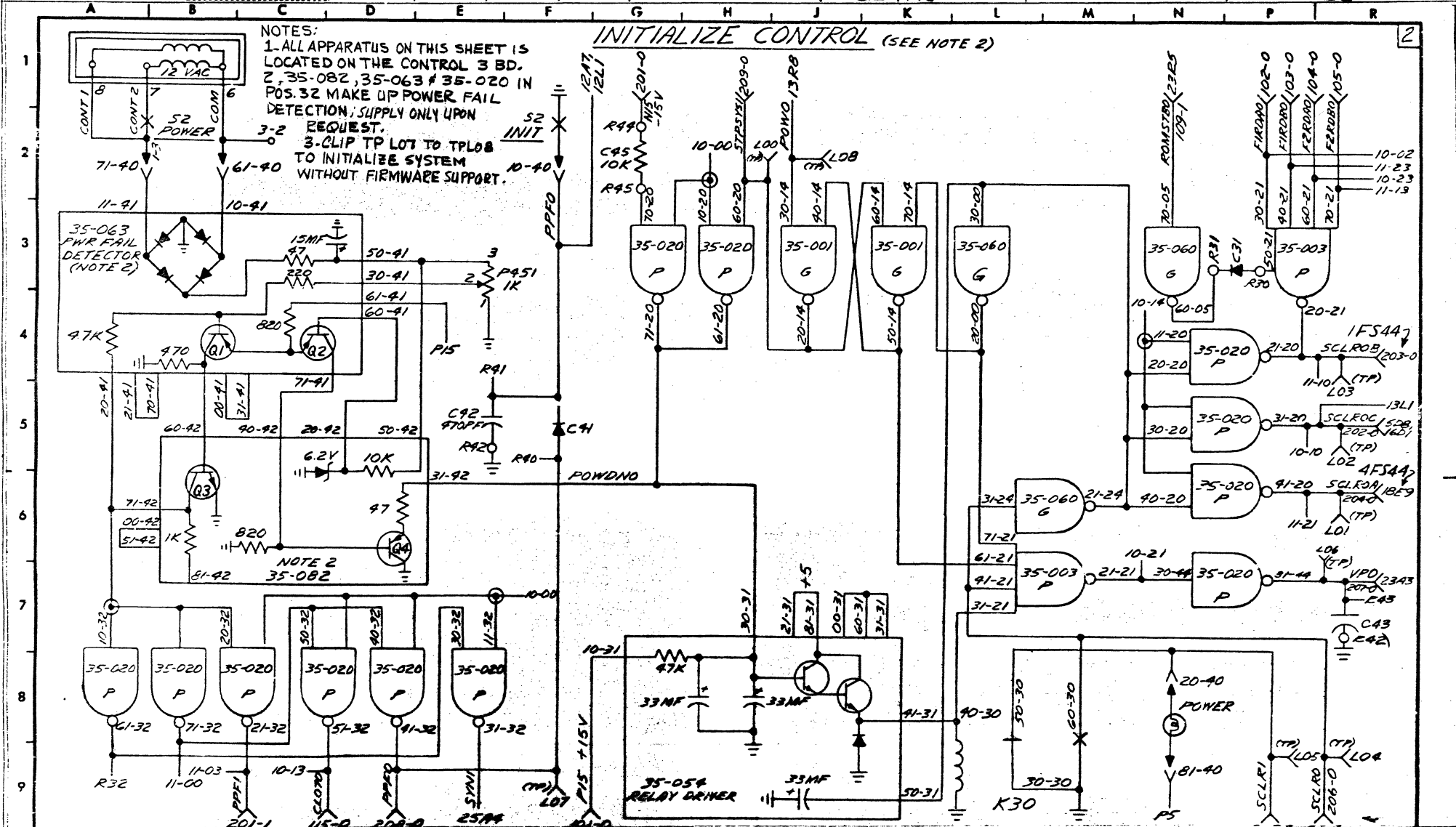
DWG NO (FS45)

70B113008

CONT. ON SHEET 20 SK NO 19

MODE CONTROL





UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:--

APPLIED PRACTICES

SURFACES

TOLERANCE

ON MACHINE

REFERENCES

GENERAL  ELECTRIC

PROCESS COMPUTER PHOENIX

TITLE FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)

FMF GE-PAC 30

1. FC

DWG NO (FS45)

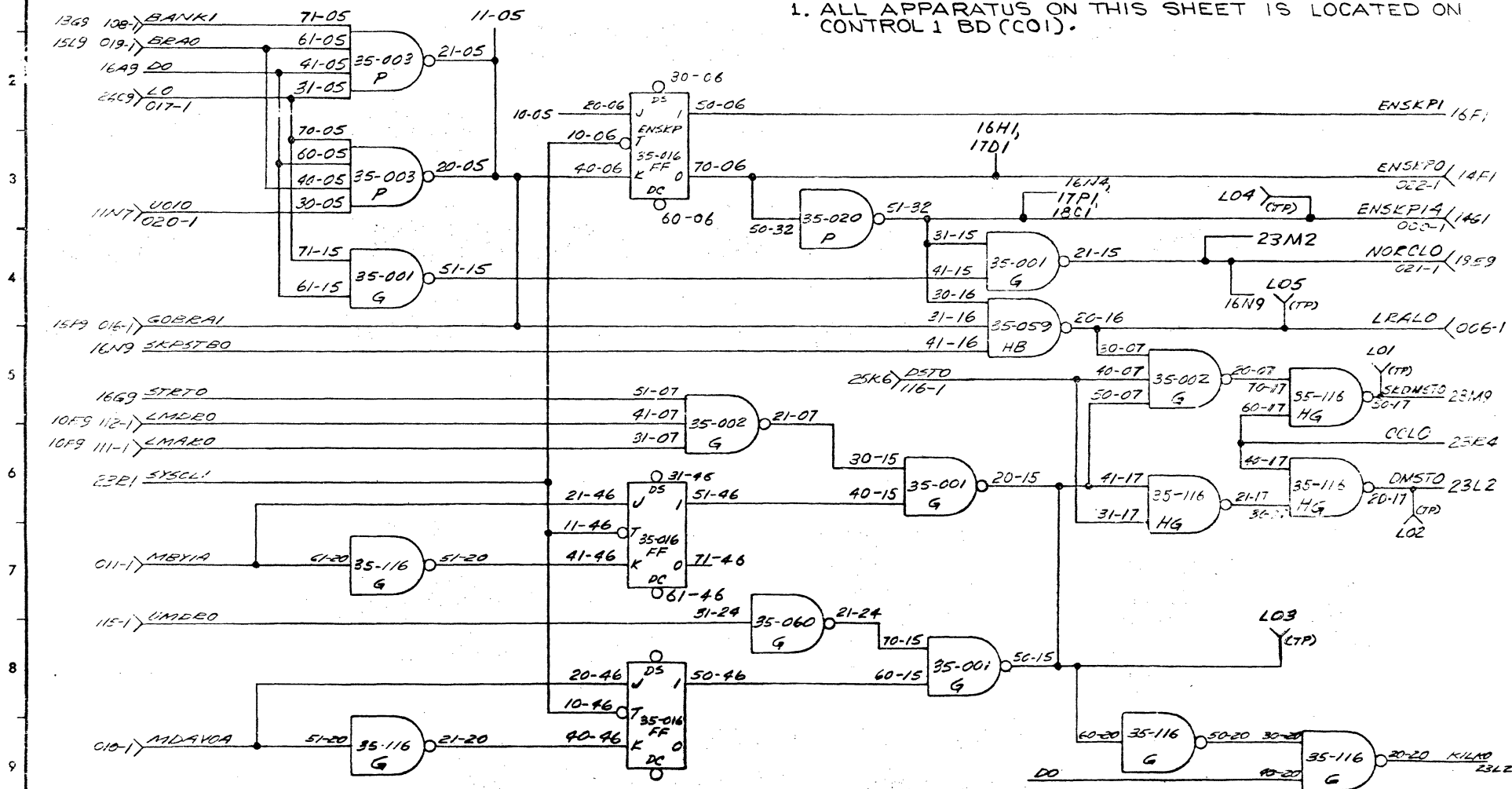
70B113008

CONT. ON SHEET 23 SH. NO. 22

CLOCK CONTROL

NOTES:

1. ALL APPARATUS ON THIS SHEET IS LOCATED ON CONTROL 1 BD (CO1).



MADE BY
V. Ratajinsk, JUNE 24, '69
ISSUED
JUL 18 1969

APPROVAL
E. A. White
June 25, 69

DES.		REV.
CHKR.	DP	

E

EV.

DWG. NO

70B113008

CONT ON SHEET 23 SH NO. 22

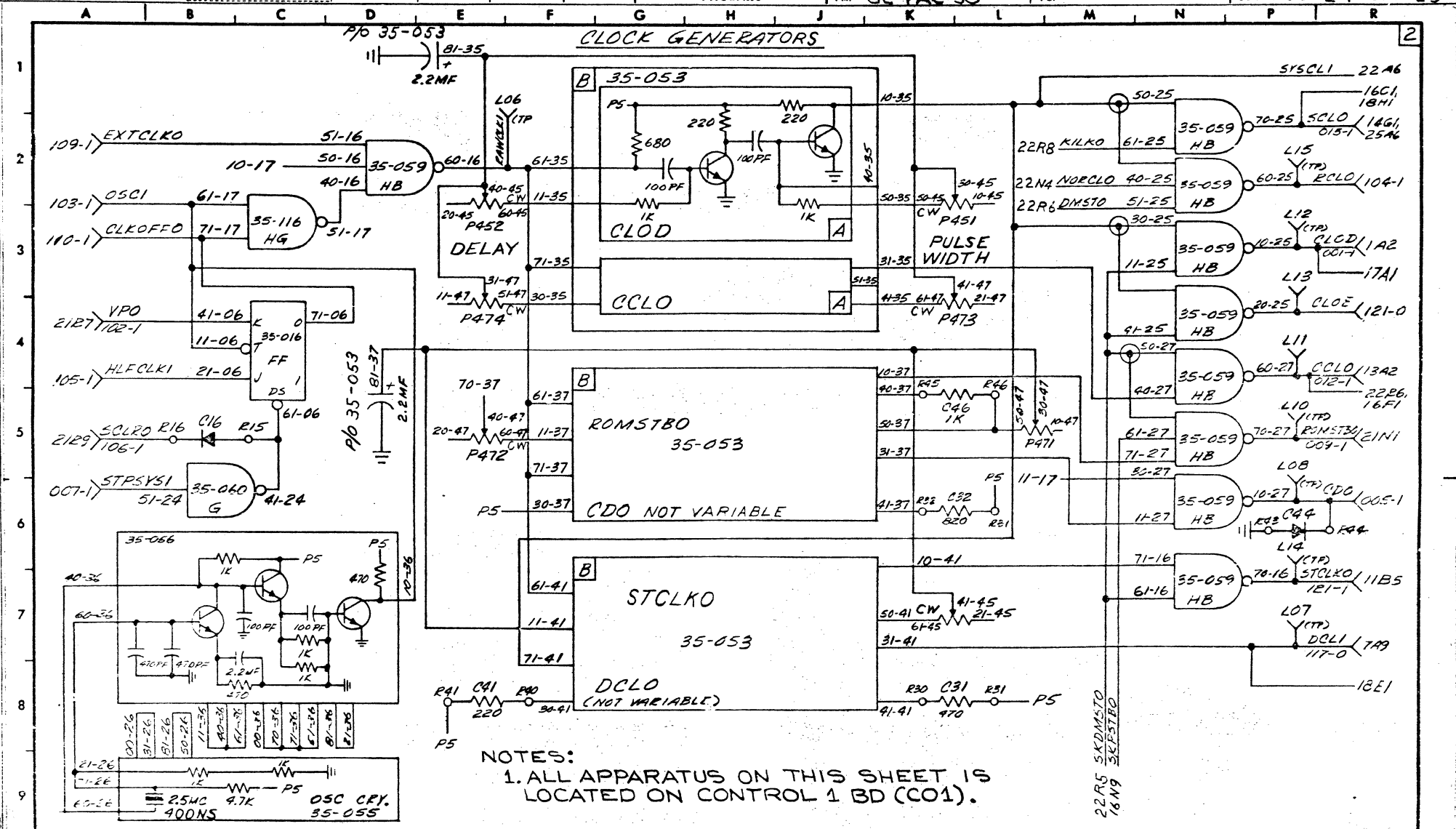
DIBT.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:--				
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
		FRACTIONS	DECIMALS	ANGLES
	✓	$\pm$	$\pm$	$\pm$

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)
GE-PAC 30

DWG. NO. (FS45)
70B113008
CONT. ON SHEET 24 SH. NO. 23



MADE BY

REDAJAL, JUNE 24, 69
ISSUED

APPROVAL

E. A. White
June 25, 69

DES.

CHRR.

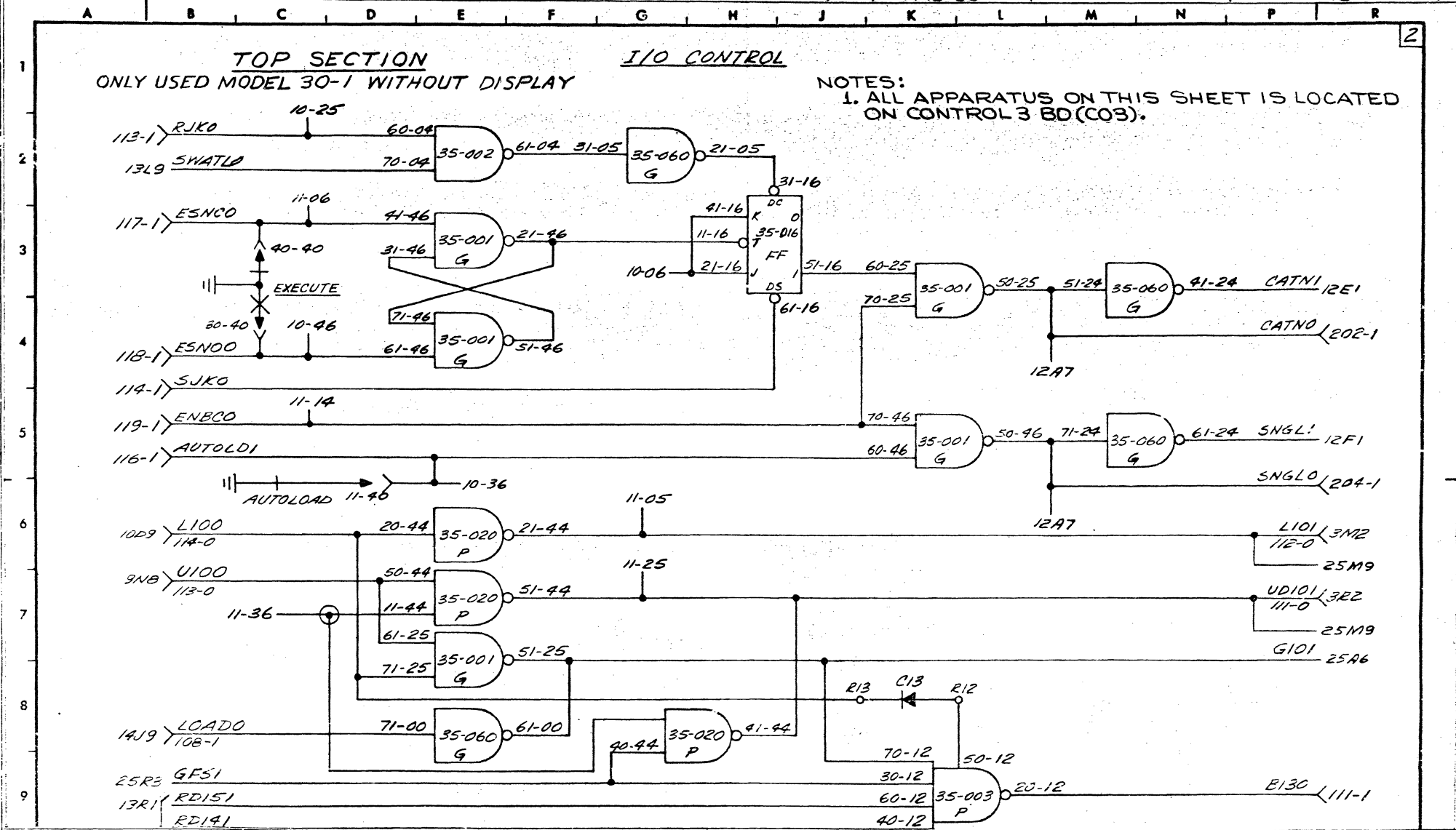
REV.

E

DWG. NO. (FS45)
70B113008
CONT. ON SHEET 24 SH. NO. 23

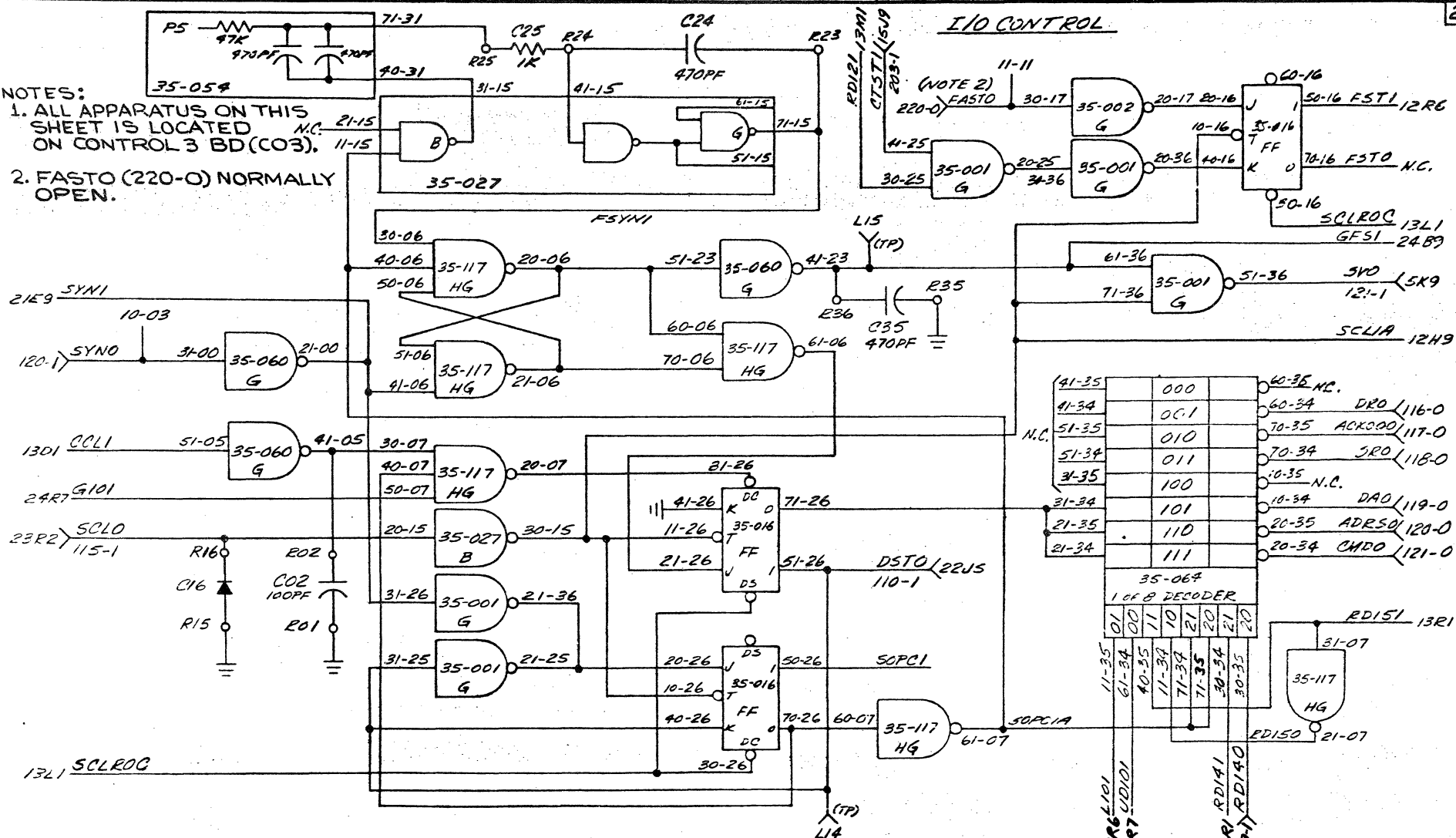
JUL 18 1969

DWT.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC PROCESSOR (MOD 30-2) FMP GE-PAC 30	DWG. NO. (FS45) 70B113008 CONT. ON SHEET 25 SH. NO. 24
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS	DECIMALS			



MADE BY Katajue	APPROVAL E. G. White	DES. E	CHKR. DR	REV.	DWG. NO. (FS45) 70B113008 CONT. ON SHEET 25 SH. NO. 24
ISSUED JUL 18 1969	June 25, 69				

- NOTES:
1. ALL APPARATUS ON THIS SHEET IS LOCATED ON CONTROL 3 BD (CO3).
 2. FASTO (220-0) NORMALLY OPEN.



UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:--

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINING

FRACTIONS	DECIMALS
-----------	----------

$$+ \quad +$$

GENERAL  ELECTRIC

PROCESS COMPUTER PHOENIX

TITLE FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)

FMF GE-PAC 30

FCF

DWG. NO (FS45)

70B113008

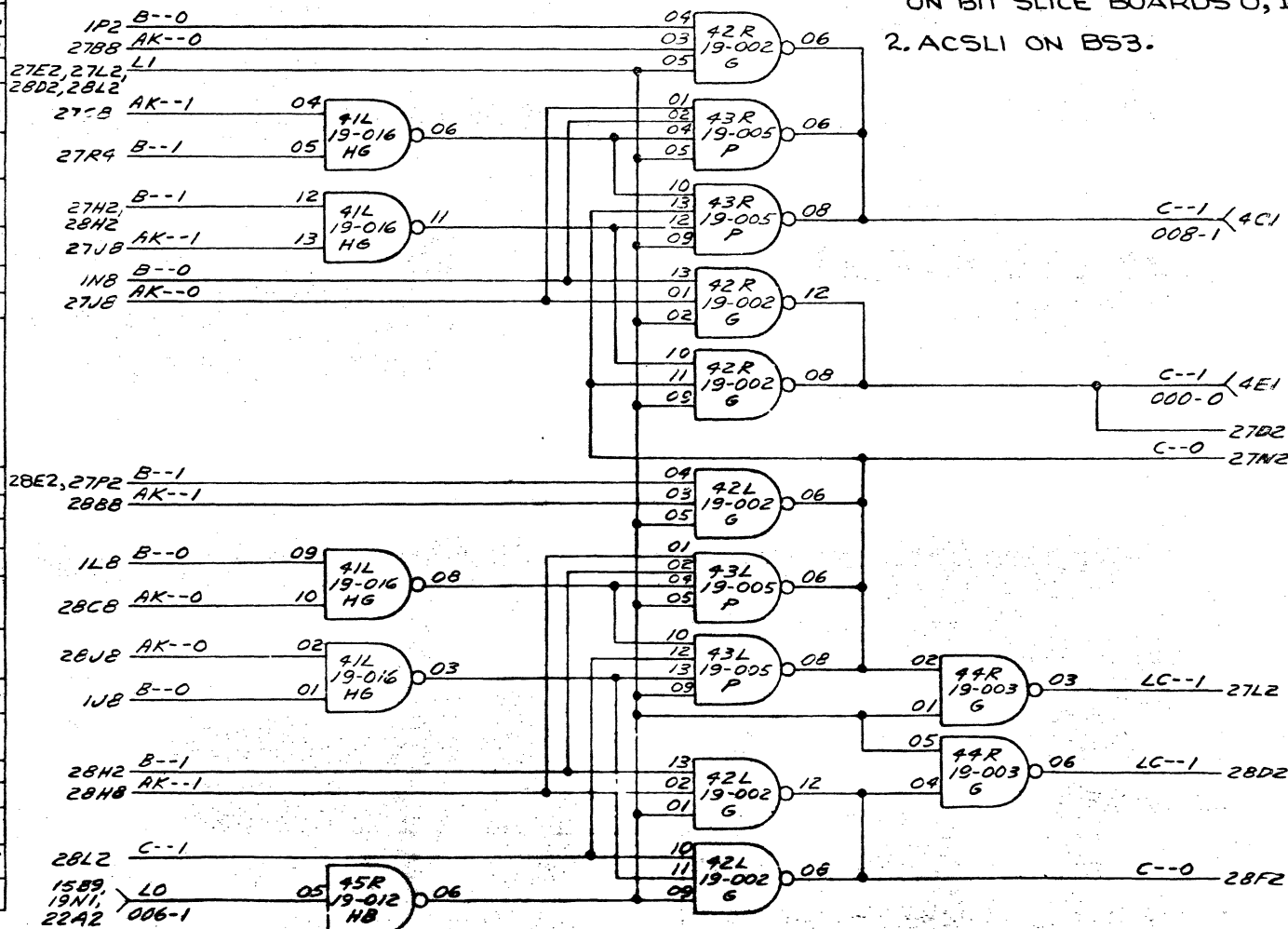
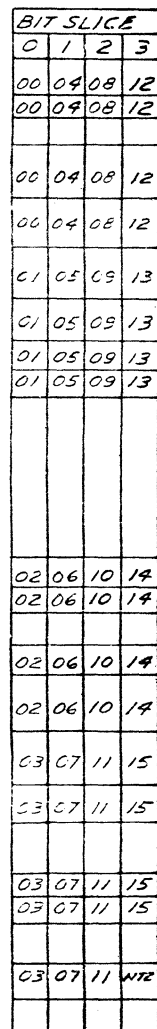
CONT. ON SHEET 27 SH NO 26

ARITHMETIC CARRY CKT

NOTES:

1. ALL APPARATUS ON THIS SHEET IS LOCATED ON BIT SLICE BOARDS 0, 1, 2 & 3.

2. ACSLI ON BS3.



BIT SLICE			
0	1	2	3
5V	03	07	11
00	04	08	12
01	05	09	13
01	05	09	13
02	06	10	14
02	06	10	14

MADE BY *Ratayinsk* JUNE 24, '69
ISSUED JUL 18 1969

APPROVAL
E. A. White
June 25, 69

DES.	
CHKR.	DP

REV.	7
------	---

DWG. NO (FS 45)
70B113008
CONT ON SHEET 27 SH NO. 26

DIBT.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

✓

+

+

+

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIXTITLE FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)

PMF GE-PAC 30

PCF

DWG NO (FS45)

70B113008

CONT. ON SHEET 30 SH NO 29

BACK PANEL MAP

CONN POS MOTH. BD VERT. POS	11 C00			13 C01			15 B50			16 B51		
	HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
	0	1	2	0	1	2	0	1	2	0	1	2
22	UIR40	P5	GND	ENSKP0	P5	GND	UIR40	P5	GND	UIR40	P5	GND
21	CEMT1	RPT1	UI00	NDRCL0	STCLK0	RDO00	WMAR1	RMAR1	ARO31	NPSW1	RPSW1	ARO71
20	MA150A	CMND0	FLR121	UO10	UYDO	RDO10	WMR11	RM11	ARO21	NMR31	RM11	ARO31
19			FLR131	BRAG	LI	RDO20	WMR41	RM41	ARO11	WMAR1	RMAR1	ARO51
18		L*SW0	FLR141	ILEGO	KILDST0	RDD30	WMR01	RM01	ARO01	WMR11	RM11	ARO41
17	CTST1	CTONE1	FLR151	LO		RDO90	WLOC1	RLOC1	UD101	WMR41	RM41	UD101
16	SPBRA1	DI	DO	GOBRA1	DST0	RDO91	WMR21	RM21	B080	WMF01	RM01	B100
15	SCLO	CTST0	LDFO	SCLO	UMDR0	RD121	WPSW1	RPSW1	B090	WLOC1	RLOC1	B110
14	PORR0	PTY51	PTY50	P0W0	STRT0	RD151	WMR31	RM31	S031	WMR21	RM21	S071
13	RDC30	RDO31	LCTRO	PPFO	ATNO		B010	B000	S021	B050	B040	S061
12	GRDO40	RDO41	L100	CCLO	LMDRO	SRAH00	R030	B020	S011	B070	B060	S051
11	AD050	RDO51	ENSKPIA	MBYIA	LMARO	SRAH00	RD080	RD110	S001	RD080	RD100	S041
10	ENSKP0	IR111	IR151	MDA0A	CLKOFF0	SRAH00	RD100	RD030	IR031	RD111	RD030	IR071
09	RDC01	IR101	IR141	ROMSTB0	EXTCLK0	SRAH00	DAL010	S091	IR021	DAL030	S111	IR061
08	LIRO	IR091	IR131		BANK1		CSV1	LIRO	C031	LIRO	LIRO	IR051
07	SEVNI	IR081	IR121	STPSYS1			SEVNI	MIA	IR001	SEVNI	MIB	IR041
06	RDO11	LARO	LO	LRALO	SCLRO		LO	S081	LARO	LO	S101	LARO
05	BRAG	RDO21	MIA	CDO	HLFCLK1		L101	DAL000	RD110	L101	DAL020	RD110
04	GOBRA1	UAI	MIB	AUTOLD1	RCL0			UAI	UYDO		UAI	UYDO
03	AD060	RDO61	LMARO	P5	OSCI		RD090	UIR0	SG031	RD090	UIR0	S0471
02	ED070	RDO71	LCCO	GND	VPO		RD091	RD081		RD091	RD081	
01	ENDEST1	SVACO	SVAC1	CLOD			CLOD	DRLO10	RD090	CLOD	DRLO30	RD090
00	LI	P5	GND	ENSKPIA	P5	GND	DRLO00	P5	GND	DRLO20	P5	GND
22		P5	GND		P5	GND	C031	P5	GND	C071	P5	GND
21	SHL1	SVSC0		CLOE	IR151		SHL1	RD070	GA020	SHL1	RD071	GA060
20	CLRC			SCLROA	IR141		U000	GRD040	RDO30	U010	GRD040	RDO60
19	RDC40	BANK1	U020	SCLROD	IR131		WG071	RG071	BANK0	WG111	RG111	BANK0
18	LOAD0	UMDR0	ENG1		IR121		WG061	RG061	ENG1	WG101	RG101	ENG1
17	LMDH0	DB01	DB00	DCL1	IR031		WG051	RG051	DB00	WG091	RG091	DB00
16	LMDL0	DB11	DB10		IR011		WG041	RG041	DB10	WG001	RG001	DB11
15	STFC	B120	DB20		DRD151		WG031	RG031	DB20	WG071	RG071	DB20
14	STFLO	B130	LMDRO		IR001		WG021	RG021	RD020	WG061	RG061	RD020
13	ASSO	B140	SHR1		DTEST1		WG011	RG011	B001	WG051	RG051	B041
12	ACSL1	B150	CTSR1		DTEST0		WG001	RG001	CTSR1	WG041	RG041	B031
11		RDO81	CTSL1		FA01		WG151	RG151	SHR1	WG031	RG031	SHR1
10	RDC90				FA11		WG141	RG141	B041	WG021	RG021	B081
09		RD101	SB20		PTY50		WG131	RG131	SB20	WG011	RG011	SB20
08	PD110	CMND1			PTY51		WG121	RG121	RD050	WG001	RG001	RD050
07	PD120	PD121			DI		WG111	RG111	B080	WG151	RG151	3120
06	PD130	PD131	SB11		DO		WG101	RG101	B010	WG141	RG141	3130
05		RD141	SB01		P21		WG091	RG091	B100	WG131	RG131	B140
04		RD151			ENDRON0		WG081	RG081	B110	WG121	RG121	B130
03	RDC10	SB00	DEVNI		PORR0		SB00	FYD10	RD111	SB00	FYD10	RD101
02	RDC20	SB10	PI		EXL000		STCLK0	DEVNI	SB10	STCLK0	DEVNI	SB11
01	RE000	X1A	X1B		SA140		X1A	PI	B031	X1B	PI	B071
00		P5	GND		P5	GND	C001	P5	GND	C041	P5	GND

MADE BY
J. Katarjick
ISSUED
JUNE 24, 69
JUL 18 1969APPROVAL
E. G. White
JUNE 25, 69DES
CHWRREV
DR

E

DWG NO (FS45)

70B113008

CONT. ON SHEET 30 SH NO 29

DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
		FRACTIONS	DECIMALS	ANGLES
		+ -	+ -	+ -

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
PROCESSOR (MOD 30-2)
EMP GE-PAC 30 1 PCF

DWG NO (FS 45)
70B113008
CONT ON SHEET 31 SH NO 30

BACK PANEL MAP

CONN POS MOTH. BD VERT. POS	17 BS2 HORIZ POS			18 BS3 HORIZ POS			19 CO2 HORIZ POS			21 CO3 HORIZ POS		
	0	1	2	0	1	2	0	1	2	0	1	2
22	U100	PS	GND	UYDO	PS	GND		PS	GND		PS	GND
21	WLOC1	RLOC1	AR111	WMR41	RMR41	AR151	FLR120	FLR121	SFL120		SV0	RDO41
20	WMAR1	RMAR1	UL101	WMR01	RMR01	AR141	FLR130	FLR131	SFL130		SYNO	RDO51
19	WPSW1	RPSW1	AR09	WLOC1	RLOC1	AR131	FLR140	FLR141	SFL140		ENBCO	RDO61
18	WMR31	RMR31	APC81	WMR21	RMR21	AR121	FLR150	FLR151	SFL150		ESNCO	RDO71
17	WMAR1	RMAR1	UL101	GND	UD101	CTST1	CTR121	CTGNE1			ESNCO	RDO81
16	WMK11	RMR11	B120	WMR31	RMR31	B140	SPBR1	CTR131			AUTGLD1	RDO91
15	WMR41	RMR41	B130	WMAR1	RMAR1	B150	CTST0	LDF0			SCLO	RD101
14	WMR01	RMR01	S111	WMR11	RMR11	S151	S121	LCTR0	S141		SJKO	RD111
13	B090	B080	S101	B130	B120	S141	S131	CTR141	S151		RJKO	RD121
12	B110	B100	SC91	B150	B140	S131		CTR151			CCLO	RD131
11	RDO50	RD101	SC81	RDO80	RD110	S121	RDO41	FNVO1	SOD1		B130	RD141
10	RD111	RD030	IR111	RD101	RDO30	IR151	RDO51	FNVI1			DSTO	RD151
09	DAL050	S131	IR101	DAL070	S151	IR141	RDO70	NORCL1	GRDO40		ROMSTB1	RD140
08	CO71	L1R0	IR091	C111	L1R0	IR131	CSVI	FYDPI1	CSVO		LOADO	WRMIO
07	SEVNI	M1A	IR081	SEVNI	M1B	IR121		UTI			TTESTO	ATNO
06	LS	S121	LARC	LO	S141	LARO	LO	CEMT1	RPT1		S011	ARST1
05	L101	DAL040	RD110	L101	DAL060	RD110		PTYS1	S1251		LPSWO	MPFO
04	UPSWO	UAI	UYDO	UAI	UYDO	UPSWO			S8111		TTEST1	SNGLO
03	RD091	UIRO	S8111	RD091	UIRO	S1251		FAIL	S0471		DTESTO	CTST1
02	RD091	RD081		RD091	RD081	FRCLOCO	LCCO	FA01	S0031		DTEST1	CATNO
01	CLCO	DRL050	RD090	CLCO	DRL070	RD090	CLCO	SVAC1			CLCO	PPI1
00	DRL040	PS	GND	DRL060	PS	GND	LI	PS	GND		PS	GND
22	C111	PS	GND	ACSL1	PS	GND		PS	GND		PS	GND
21	SHL1	RD071	GA100	SHL1	RD070	GA140	SHL1	SVSC0			CMDO	GND
20	UD030	GRDO40	RD061	UD020	GRDO40	RD061	CLRO	CMNCO	KILDSTO		ADRSO	FASTO
19	WG151	RG151	GND	WG031	RG031	BANKO		ENDEST			DAO	GND
18	WG141	RG141	ENG1	WG021	RG021	ENG1			NORCLO		SRO	GND
17	WG131	RG131	DB01	WG011	RG011	DB01	TTEST1	TTESTO			ACKO00	GND
16	WG121	RG121	DB10	WG001	RG001	DB11	FRAL070	DCL1	DECTRO		DRO	NKU
15	WG111	RG111	DB20	WG151	RG151	DB20	STFO	B120	BCOO		CL070	STFO
14	WG101	RG101	RD020	WG141	RG141	RD020	STFLO	B130			L1CO	BANK1
13	WG091	RG091	B081	WG131	RG131	B121		B140	SHR1		U1CO	BANKO
12	WG081	RG081	B071	WG121	RG121	B111		B150			L101	PFFO
11	WG071	RG071	SHR1	WG111	RG111	SHR1		U000			UDIC1	POWO
10	WG061	RG061	B121	WG101	RG101	CTSL1		DO			UT1	CMND1
09	WG051	RG051	SB20	WG091	RG091	SB20		LRAHO			P21	STPST1
08	WG041	RG041	RD050	WG081	RG081	RD050					BRDIS1	PFFO
07	WG031	RG031	B000	WG071	RG071	B040					CMNDO	VPO
06	WG021	RG021	B010	WG061	RG061	B050					CLRO	SCLRO
05	WG011	RG011	B020	WG051	RG051	B060	S10				FERD0	SCLR1
04	WG001	RG001	B030	WG041	RG041	B070					FERD0	SCLROA
03	SB01	FYDPI0	RD100	SB01	FYDPI0		FYDPI0	SCLROC	DEVNI		FIRDBO	SCLRCB
02	STCLKO	DEVNI	SB10	STCLKO	DEVNI	SB11					FIRDAO	SCLROC
01	X1A	P1	B111	X1B	P1	B151					PS	NIS
00	COB1	PS	GND	C121	PS	GND	COO1	PS	GND		PS	GND

MADE BY
ISSUED

Katayinski JUNE 24, 69

APPROVAL
E. G. White
June 25, 69

DES.

CHKR.

E

DR

DWG NO (FS45)
70B113008
CONT ON SHEET 31 SH NO 30

JUL 1 8 1969

PROCESS COMPUTERS
PHOENIX ARIZONA

4096-16 MEMORY BLOCK

FIRST MADE FOR
GE-PAC 30
(FS50)

REVISION STATUS

REVISION STATUS

(FS 50)

MADE BY <i>C. Ellsworth</i>	JUN. 25, '69	APPROVAL <i>DR</i>
ISSUED <i>July 18, 1969</i>		<i>E. G. White</i> June 26, 69

DWG. NO.	70B113009	CONT.	PAGE
PRINTS TO: K7-08		0A	0

A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SHEET INDEX

[illegible]

SUPPORTING INFORMATION

CATEGORY	PART NO.
MOTHER BD (MEMORY)	
CURRENT DRIVER (MXD)	32-009 F01 B01
	32-009 E02 B01
SWITCH (MSW) - K	32-010 B01
" - 4K	32-010 F01 B01
ASSEMBLY (4K x 16 BIT)	32-011 E01 B01
" (4K x 18 BIT)	32-012 E01 B01
" (2K x 16 BIT)	32-013 E01 B01
" (2K x 18 BIT)	32-014 E01 B01

SHEET INDEX NOTES:

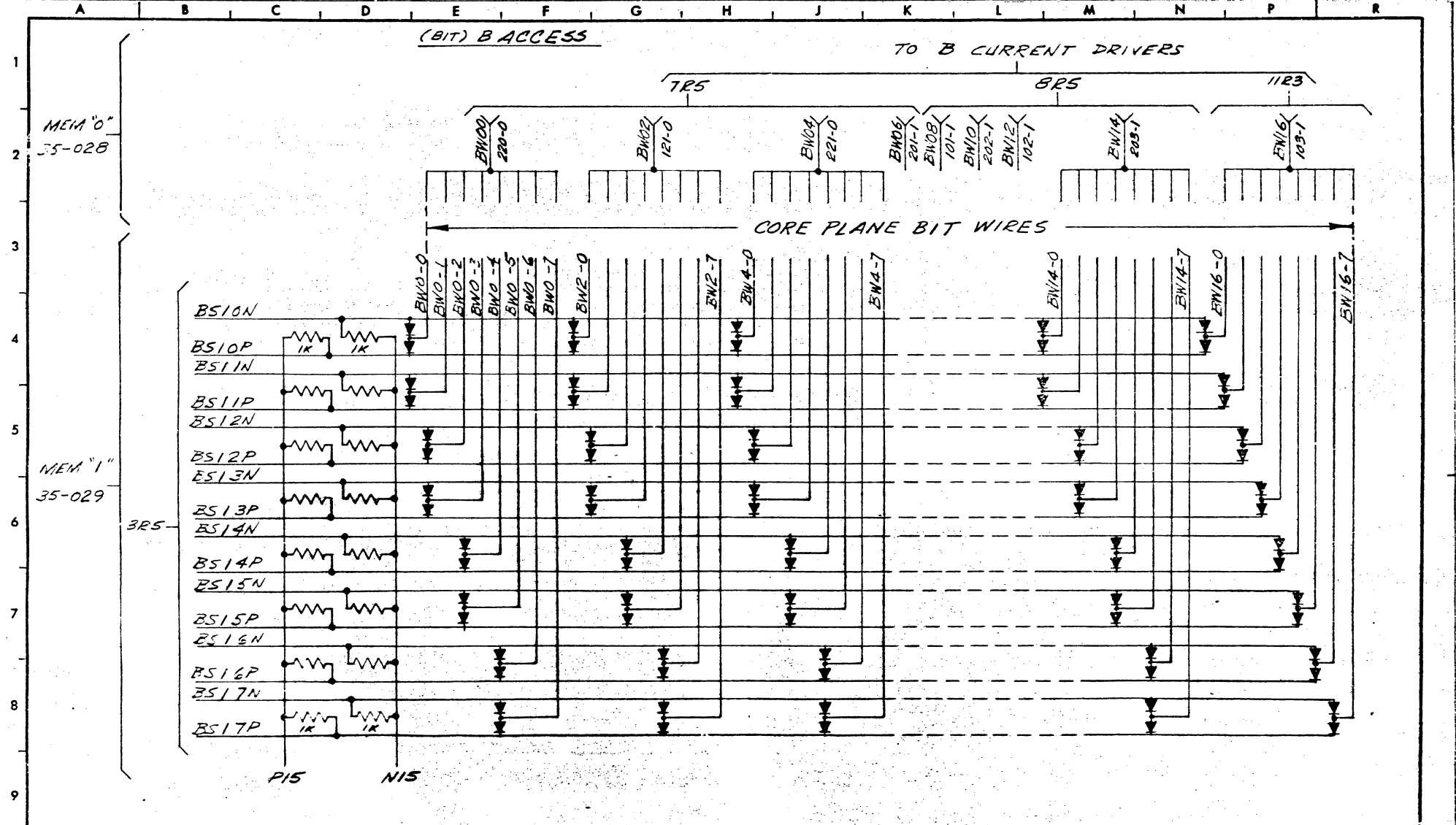
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2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.

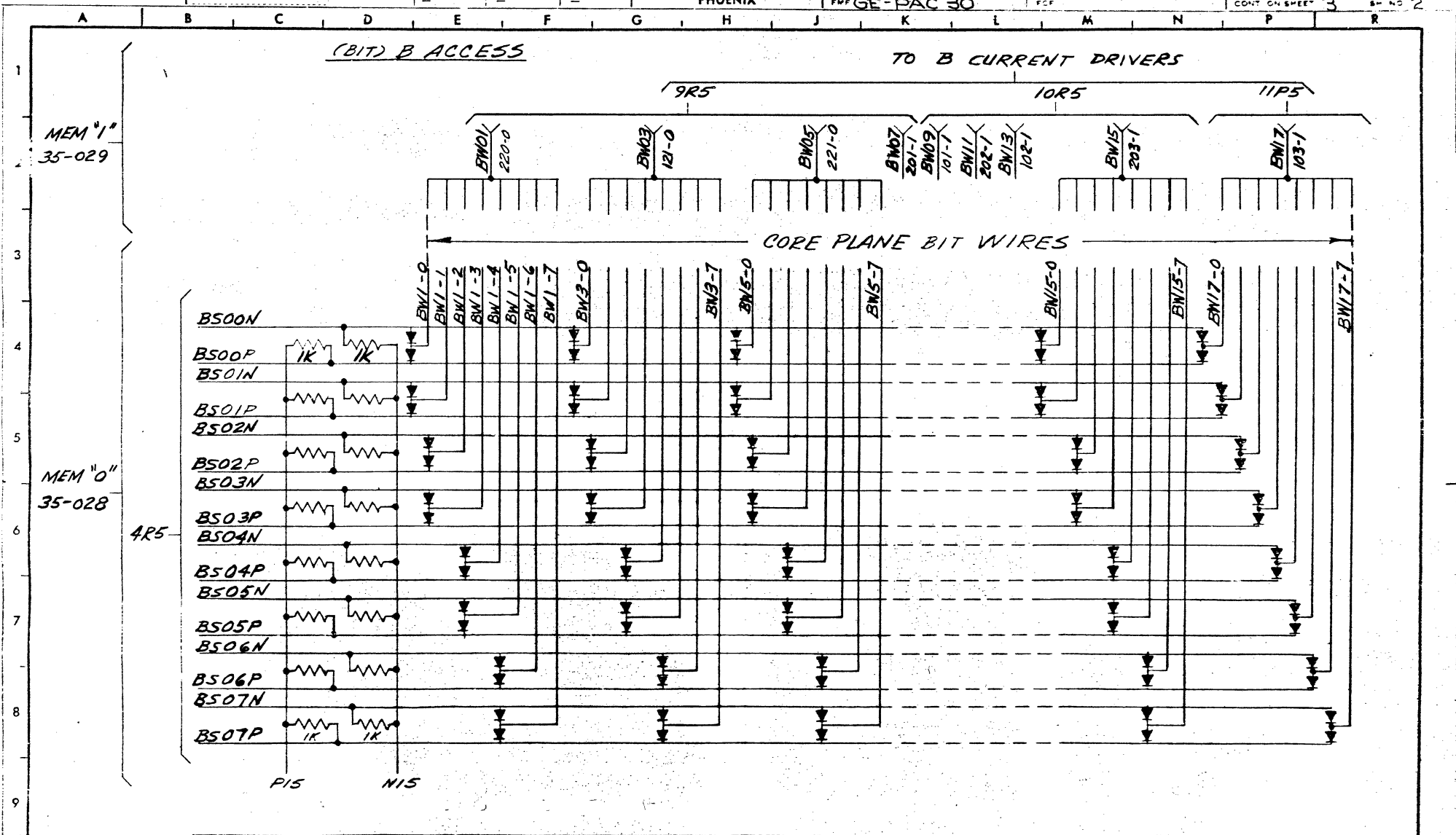
MADE BY
E. Ellsworth JUN. 25, '69
ISSUED JUL 18 1969

APPROVAL
E. A. White
June 26, 69

200		
CHIK.	AL	REV.

DWG. NO (FS 50)
70B113009
CONT ON SHEET 1 SH NO. 0A





DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING

APPLIED PRACTICES

SURFACES

✓

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

+

+

+

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC

4096-16 MEMORY BLOCK

FMF GE-PAC 30

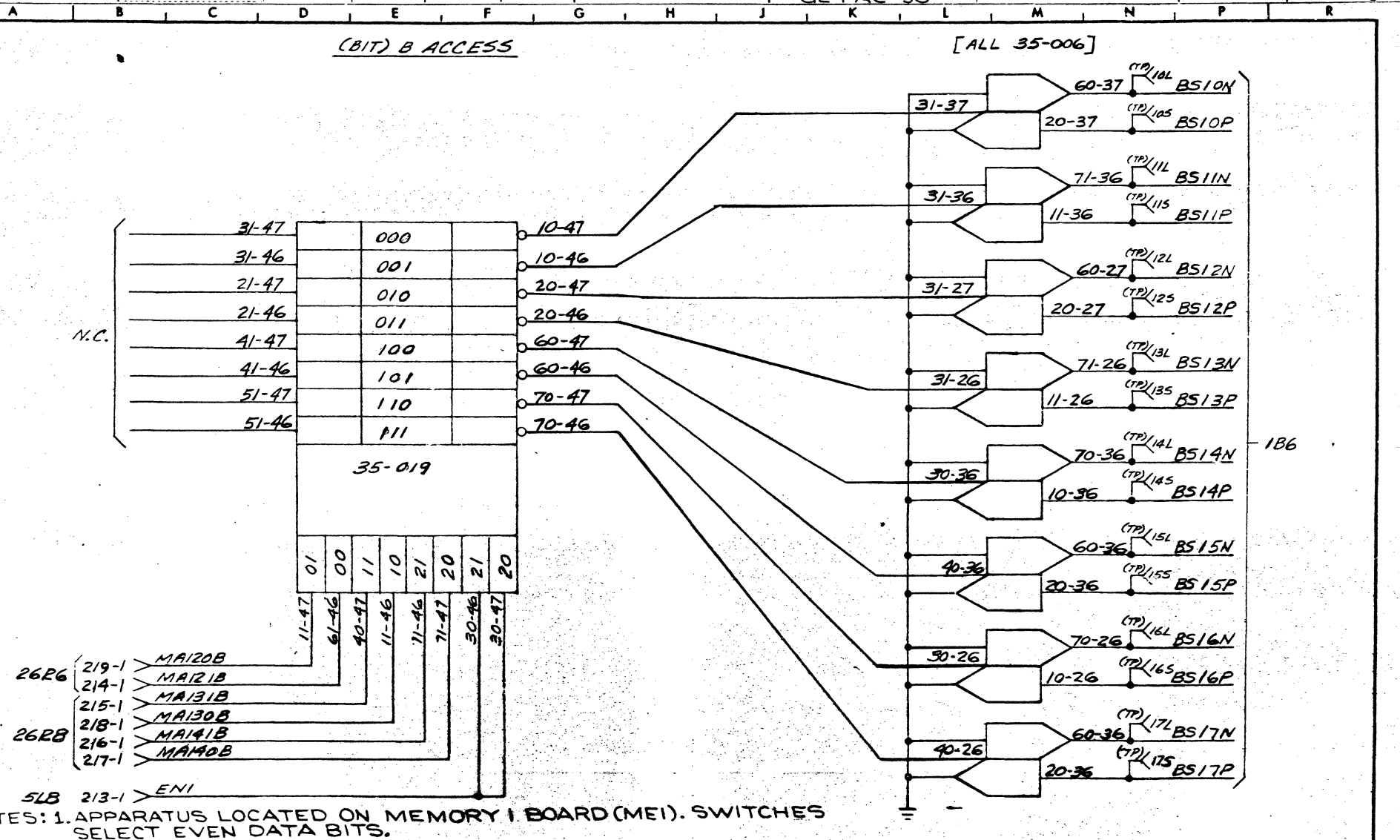
FCF

DWG NO (FS50)

70B113009

CONT ON SHEET 4

SH NO 3



MADE BY
G. Ellsworth
ISSUED
JUN 25 69
JUL 18 1969

APPROVAL

REV

C

REV

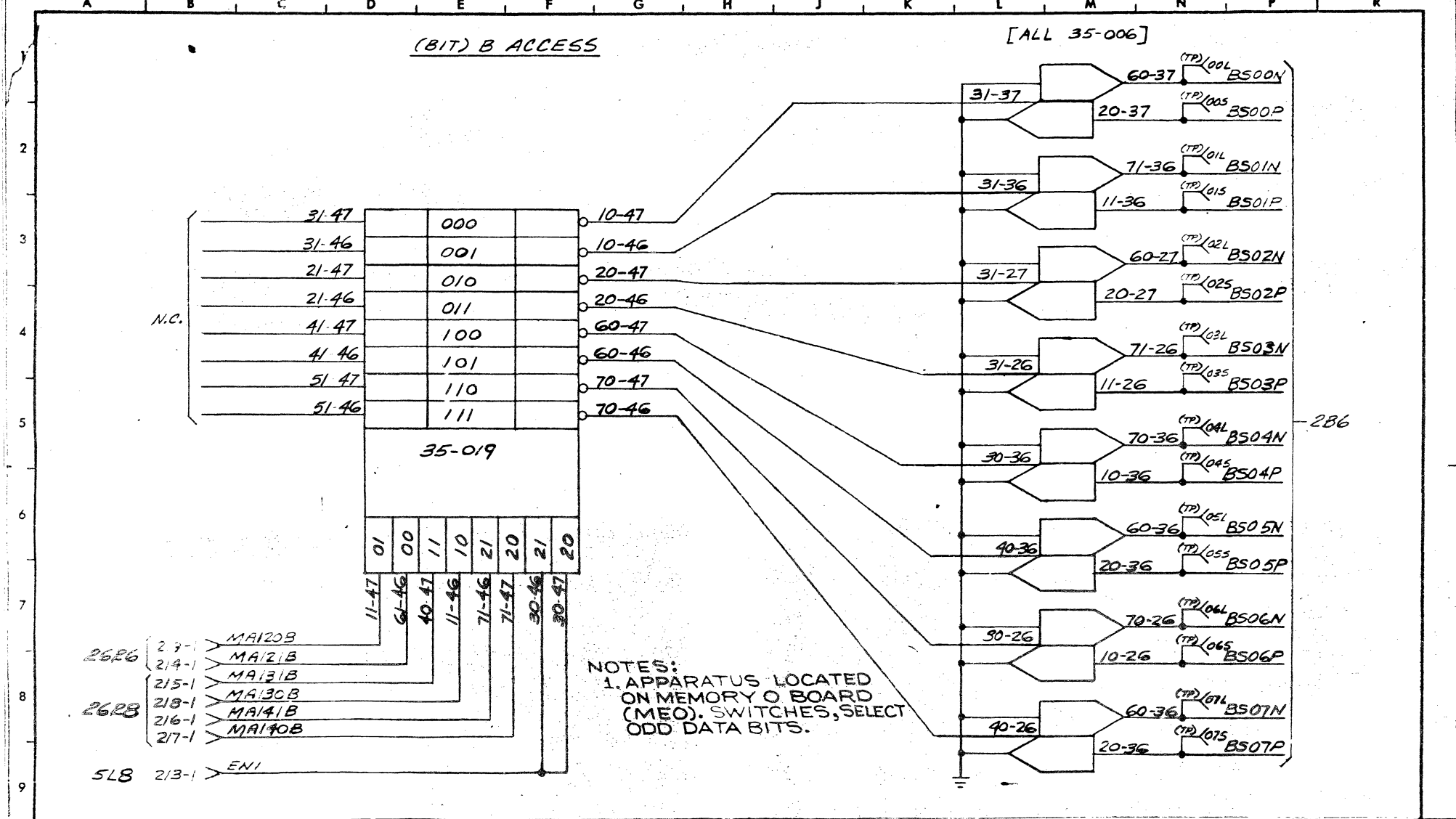
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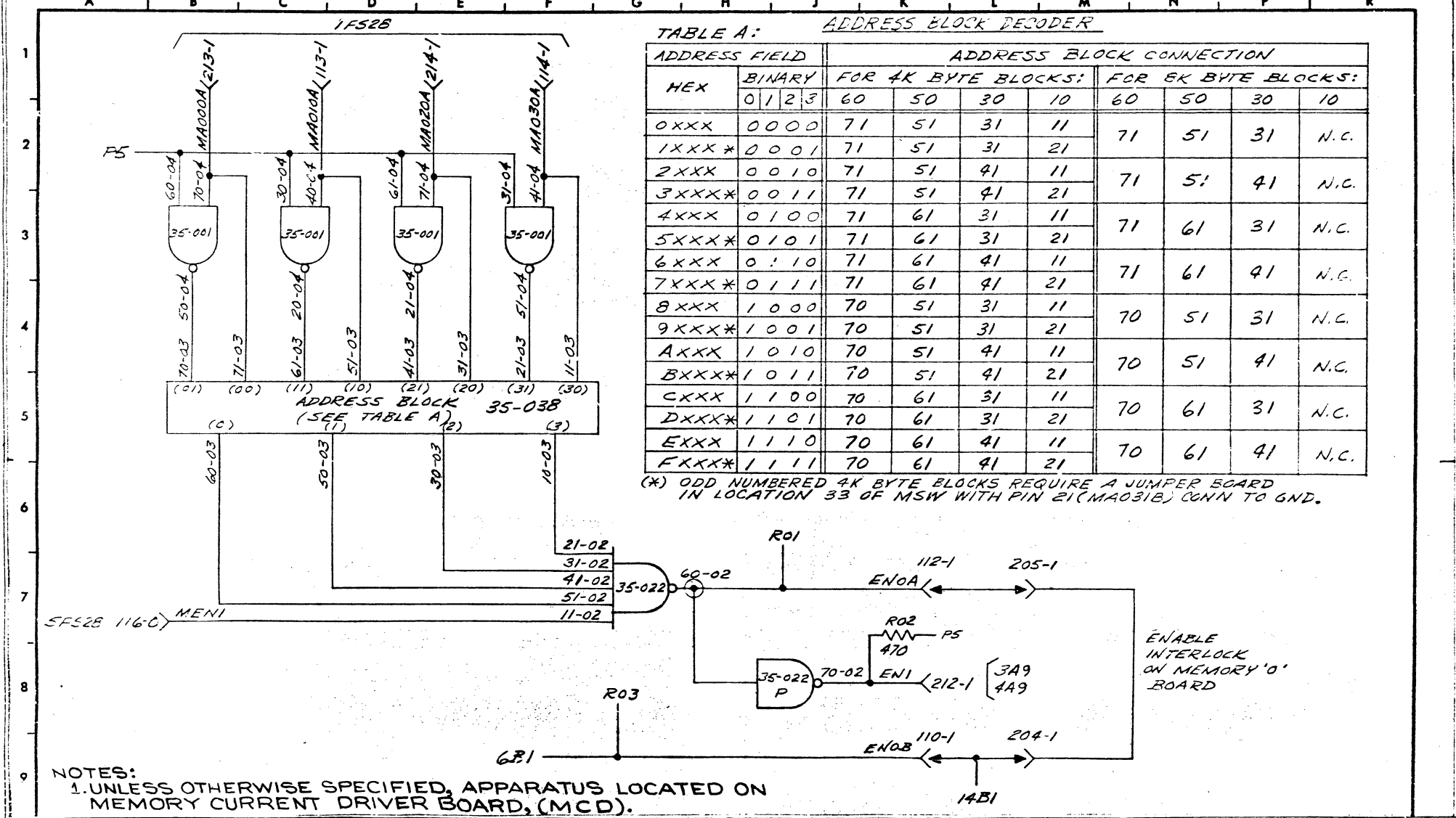
DWG NO (FS50)

70B113009

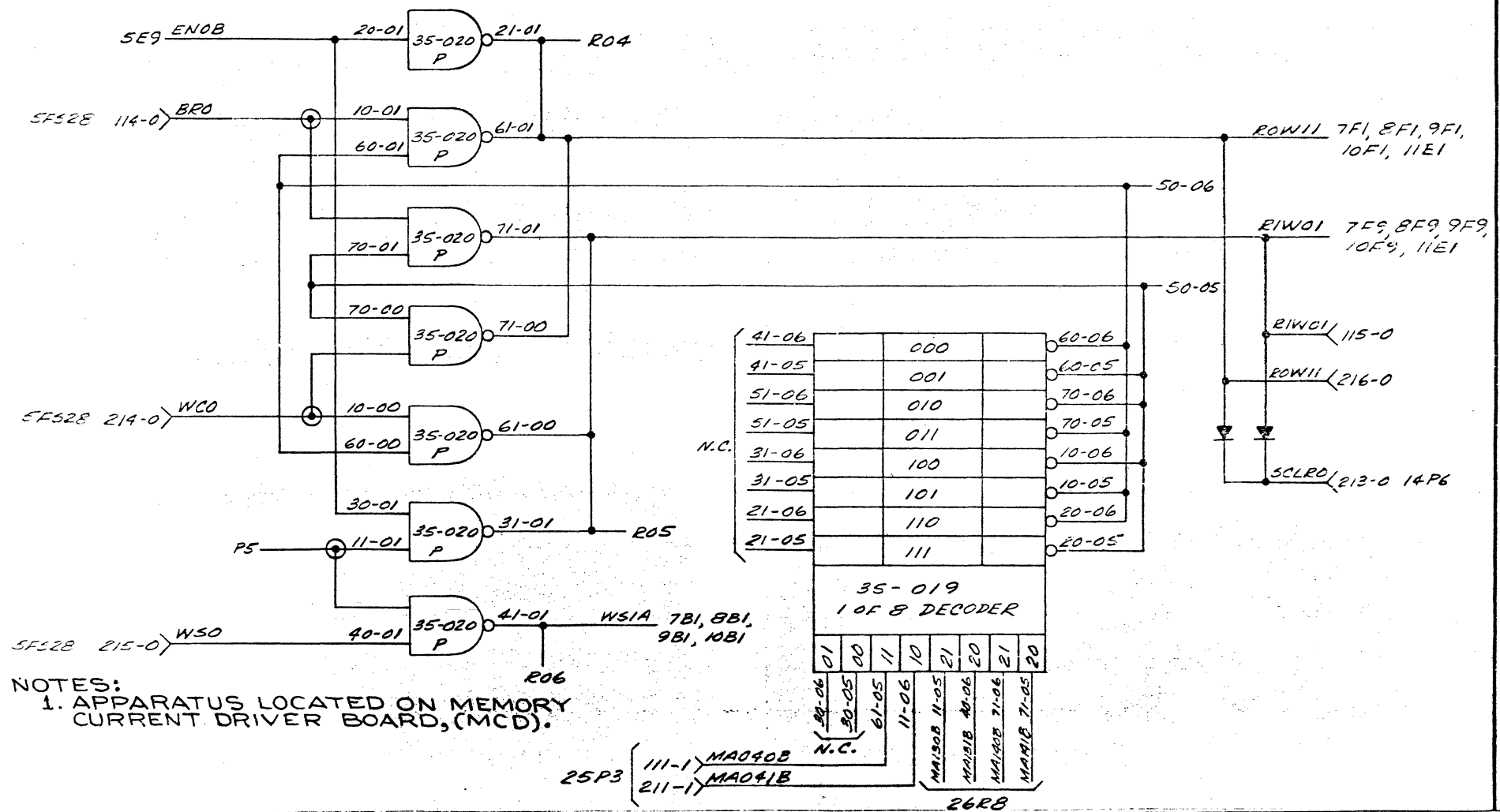
CONT ON SHEET 4

SH NO 3





B LOGIC



NOTES:
 1. APPARATUS LOCATED ON MEMORY CURRENT DRIVER BOARD, (MCD).

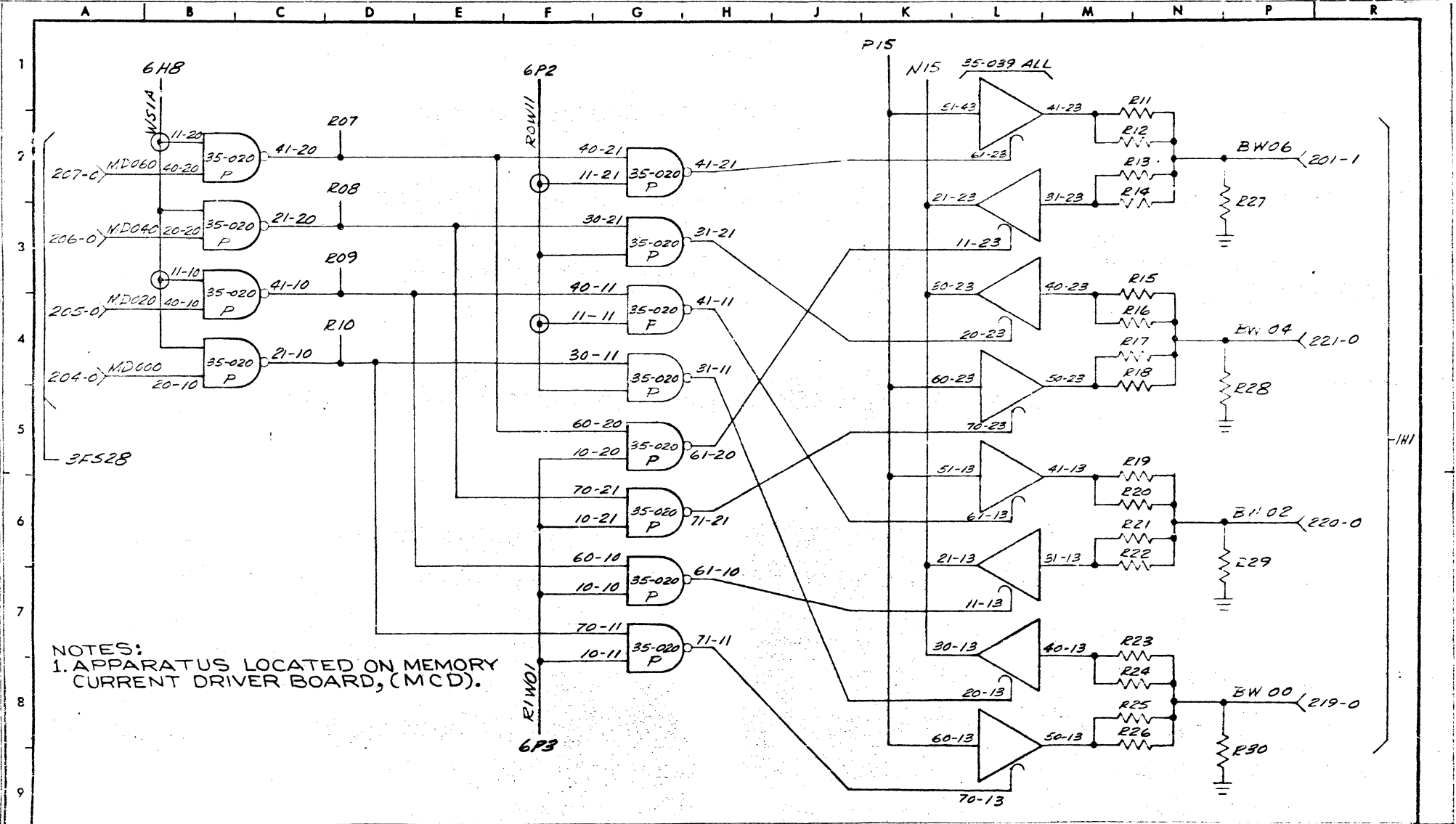
DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING			
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS	
	✓	FRACTIONS	DECIMALS
		+	+
		-	-
		ANGLES	
		+	
		-	

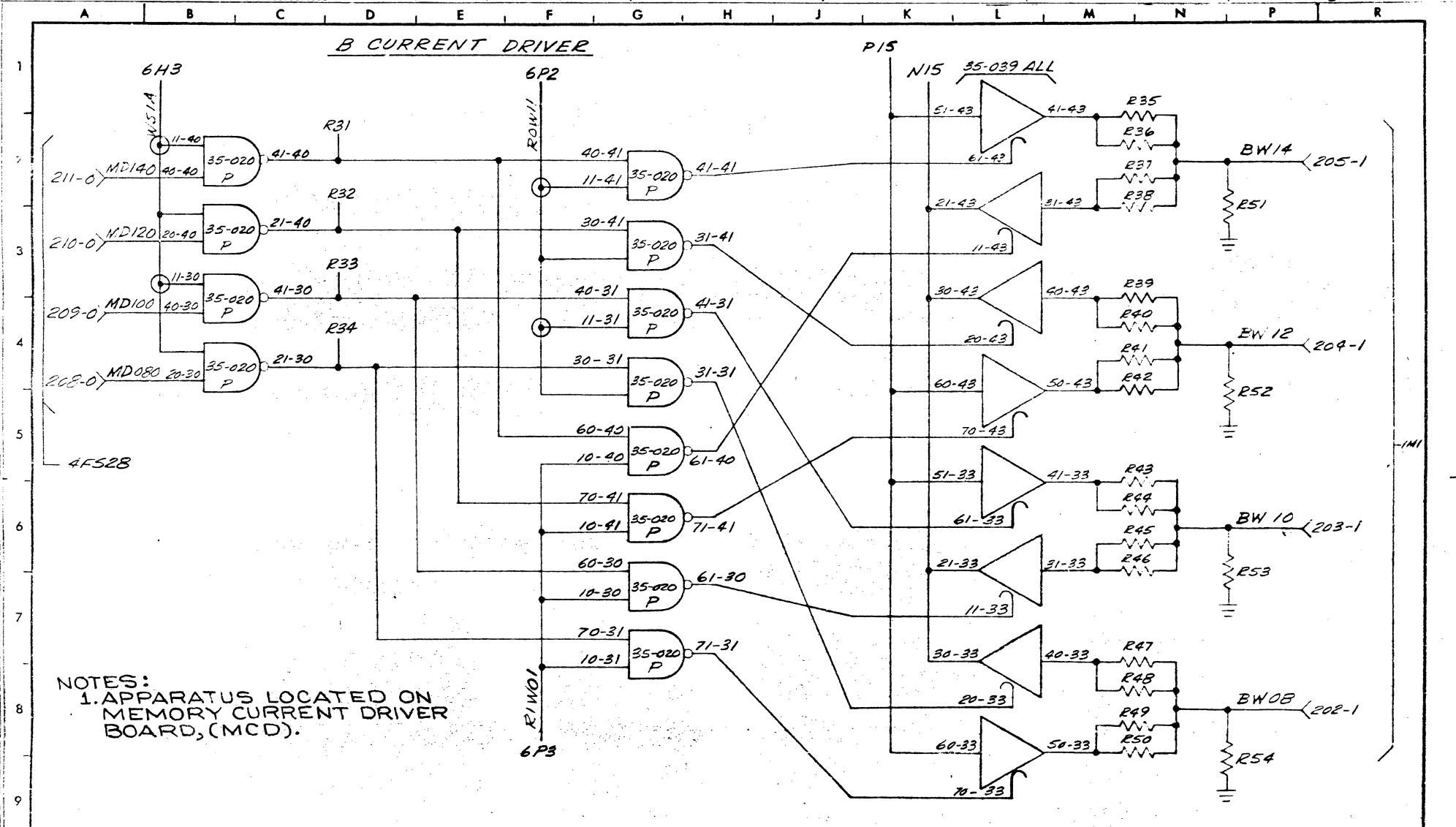
GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
4096-16 MEMORY BLOCK
FMF GE-PAC 30

DWG NO (F550)
70B113009
CONT ON SHEET 8 SH NO 7



NOTES:
1. APPARATUS LOCATED ON MEMORY CURRENT DRIVER BOARD, (MCD).



DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING -

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

✓

+

+

+

GENERAL ELECTRIC

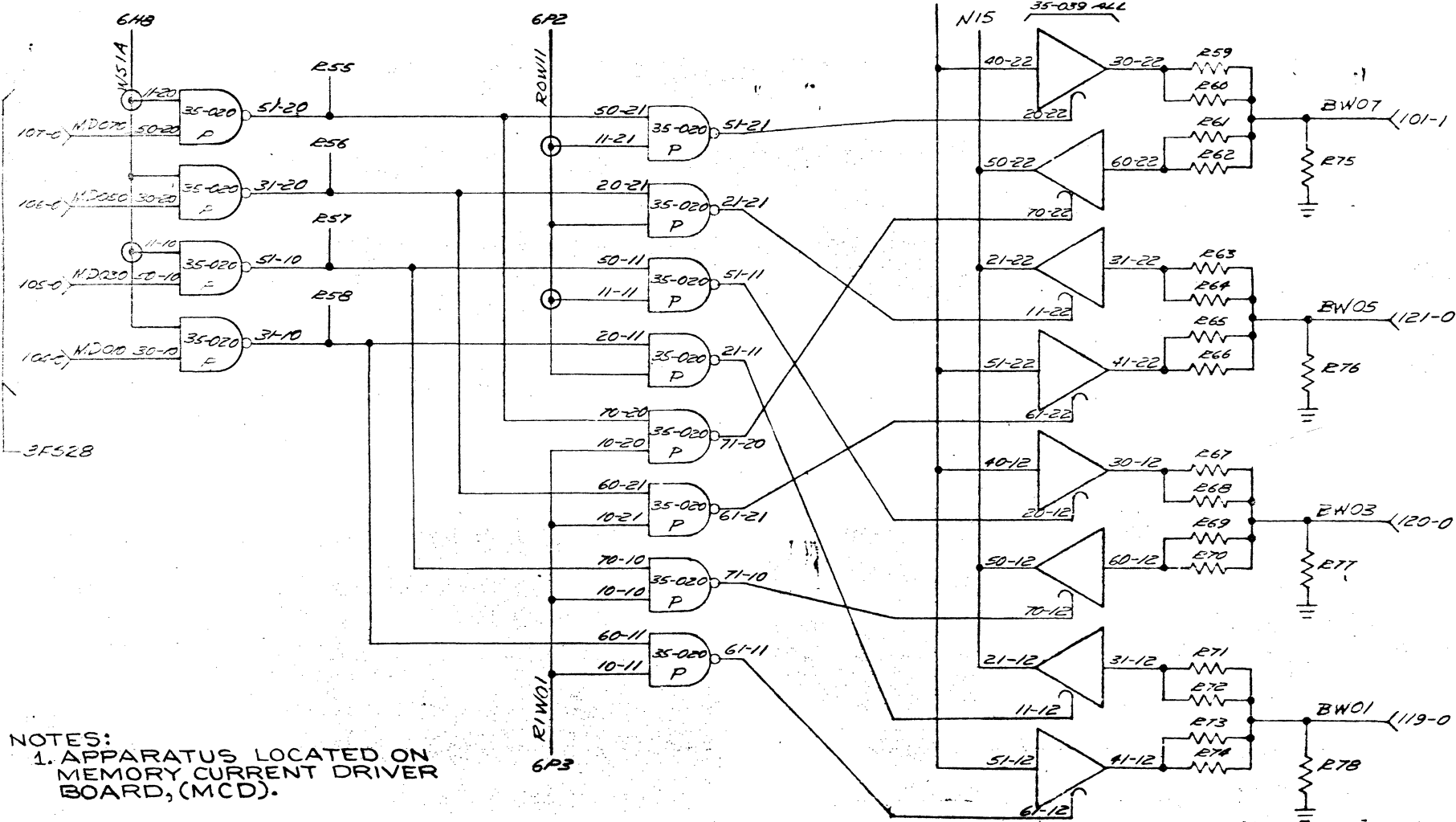
PROCESS COMPUTER
PHOENIXTITLE FUNCTIONAL SCHEMATIC
4096-16 MEMORY BLOCK
FMF GE-PAC 30

DWG NO (FS50)

70B113009

CONT ON SHEET 10 SH NO 9

B CURRENT DRIVER

MADE BY
E. Ellsworth JUN. 25, '69
ISSUED
JUL 18 1969APPROVAL
E. A. White
June 26, 69DES.
CHKR.
REV.

C

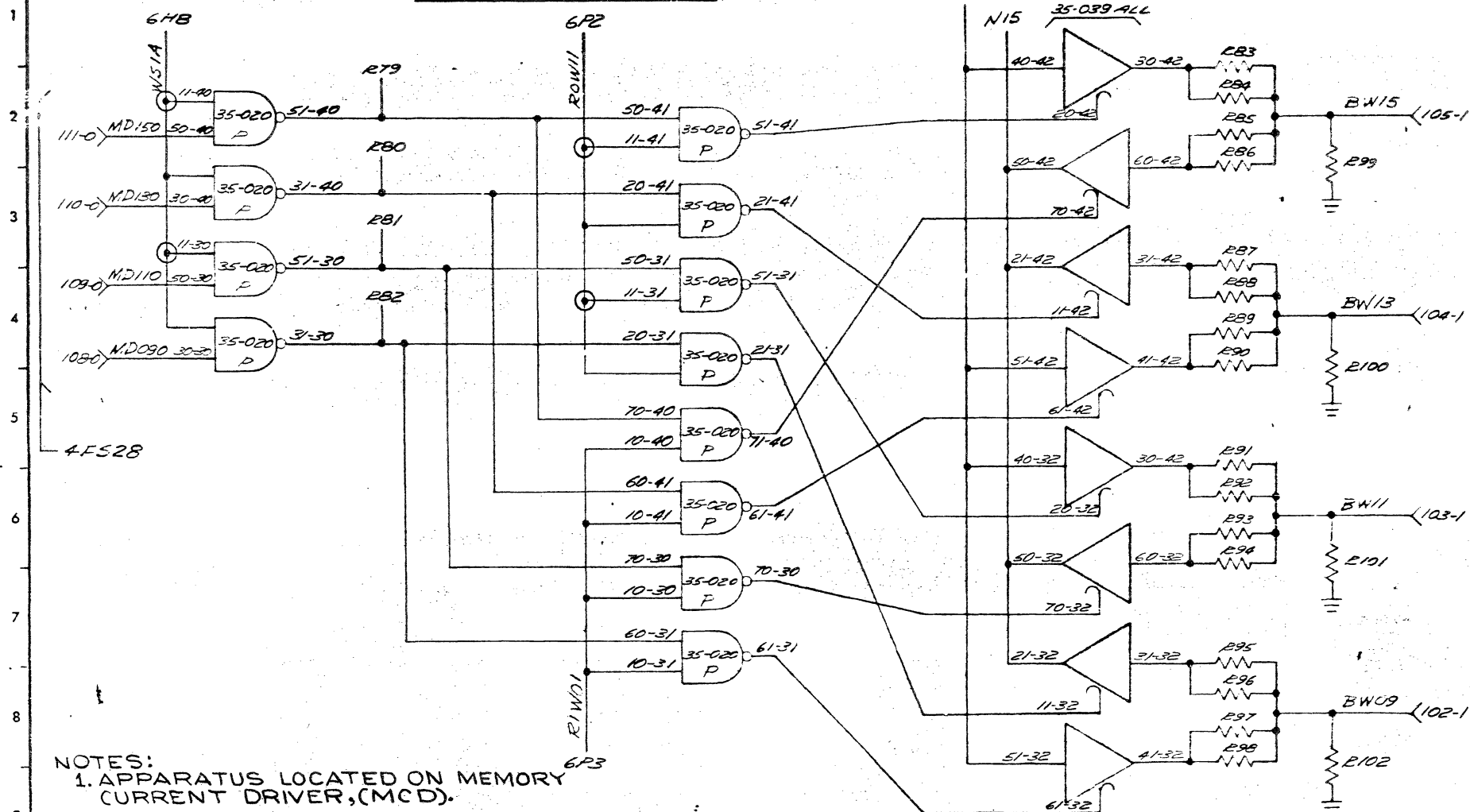
DWG NO (FS50)

70B113009

CONT ON SHEET 10 SH NO 9

DWT.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING -				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC 4096-16 MEMORY BLOCK FMP GE-PAC 30	DWG NO (F550) 70B113009 CONT. ON SHEET 11
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS	DECIMALS			

B CURRENT DRIVER



NOTES:
1. APPARATUS LOCATED ON MEMORY CURRENT DRIVER, (MCD).

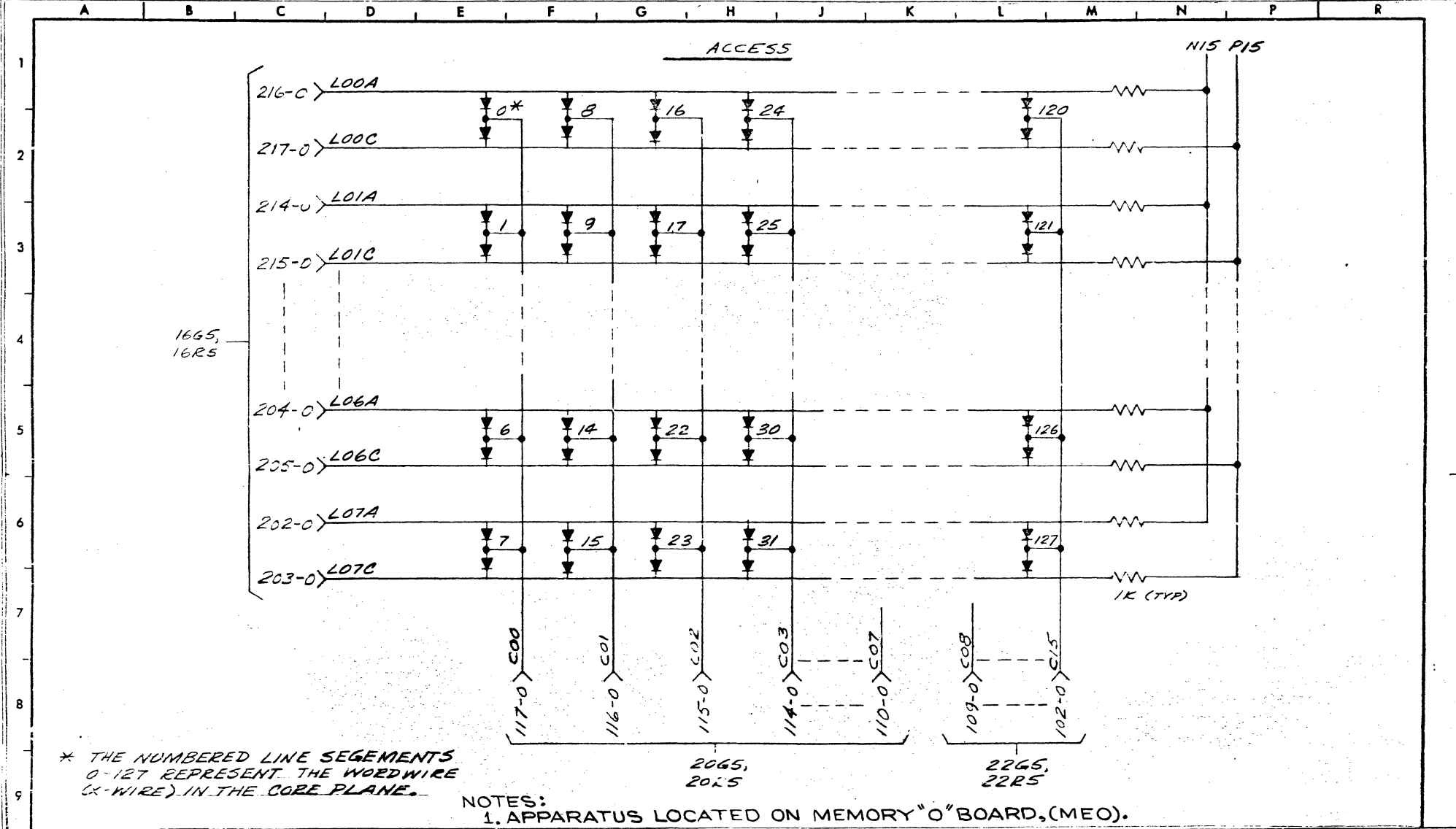
MADE BY
G. E. White JUN. 25, 69
ISSUED JUL 18 1969

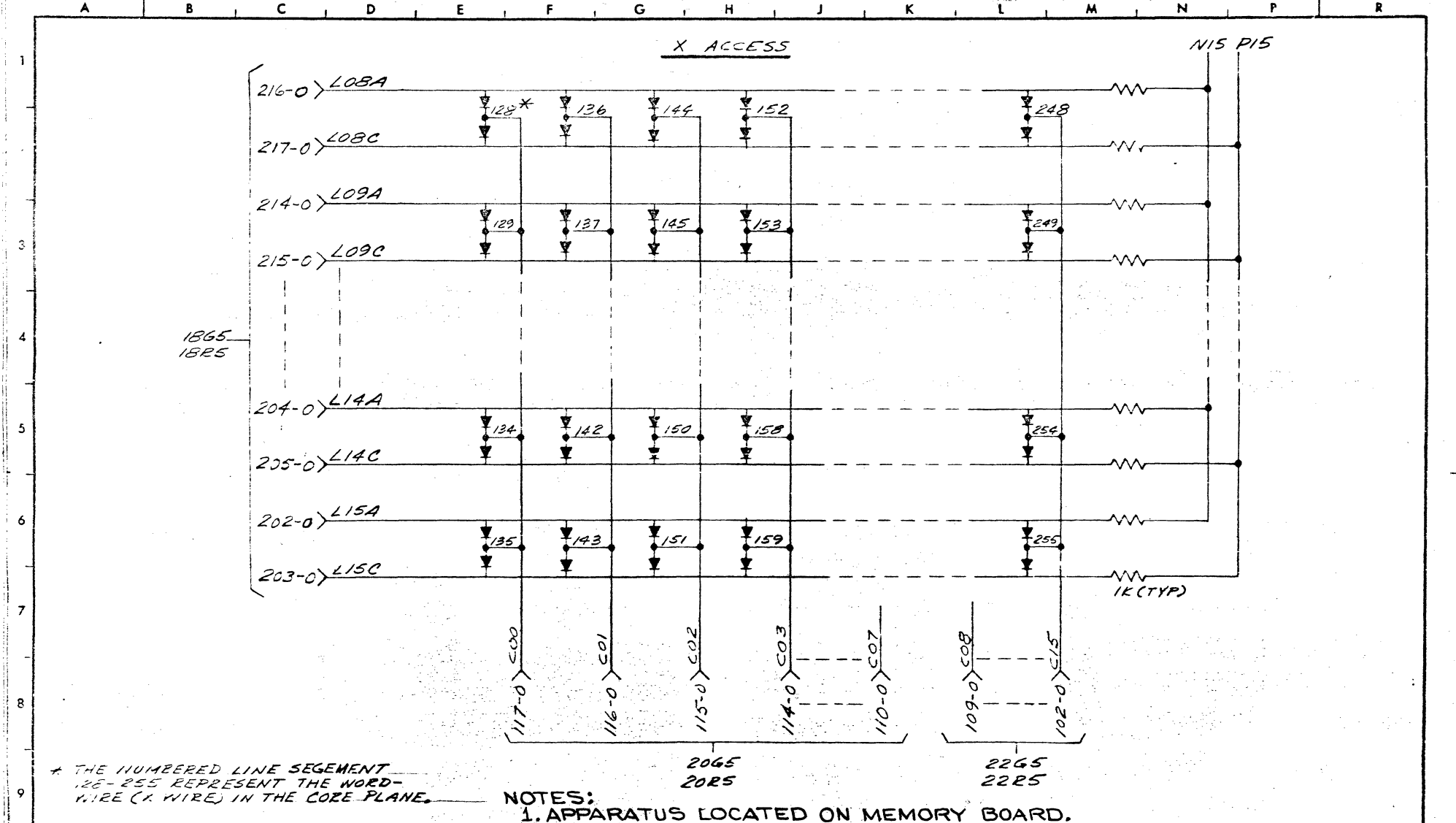
APPROVAL
E. A. White
June 26, 69

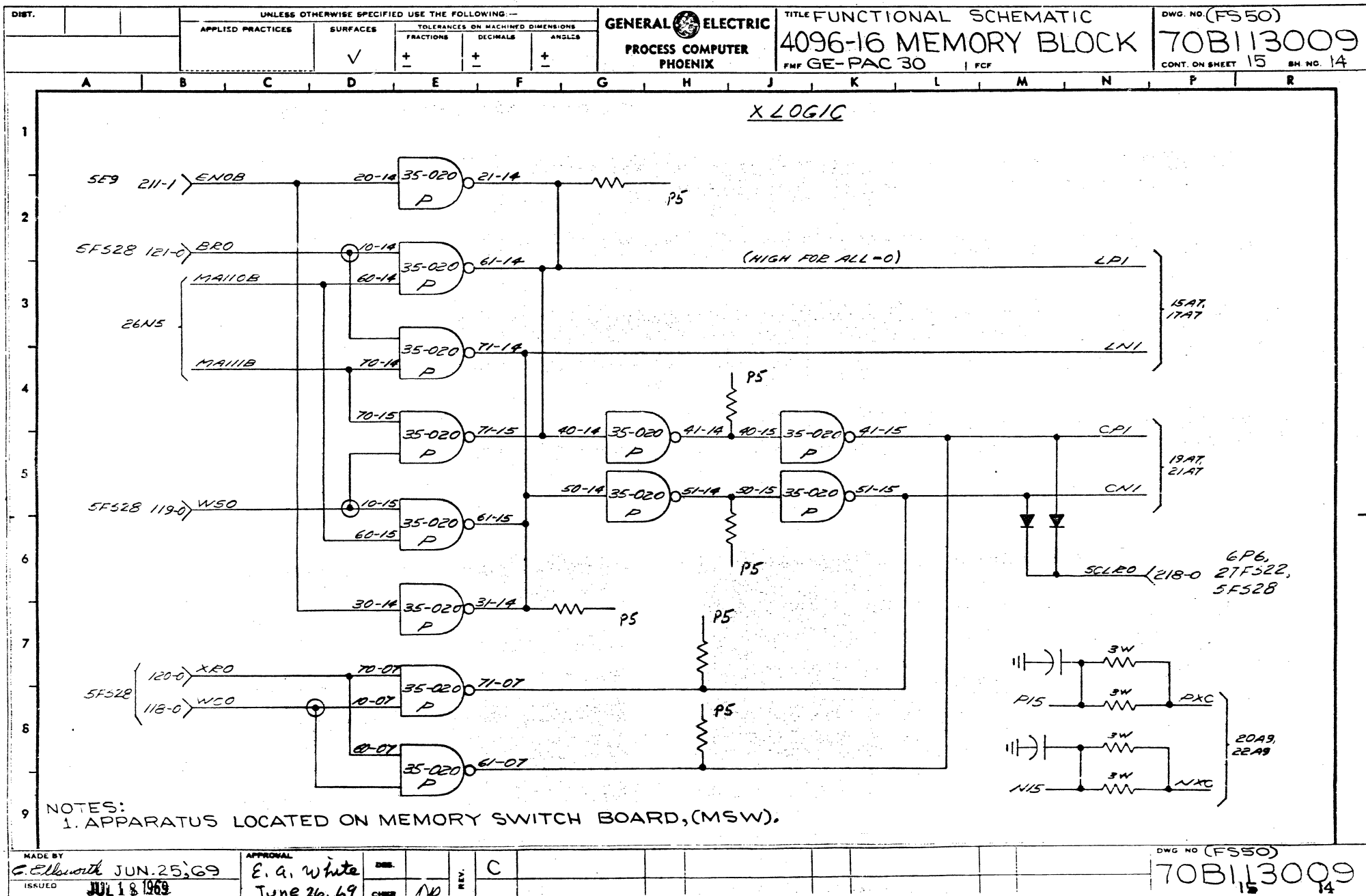
DES.
CHKR
REV.

C

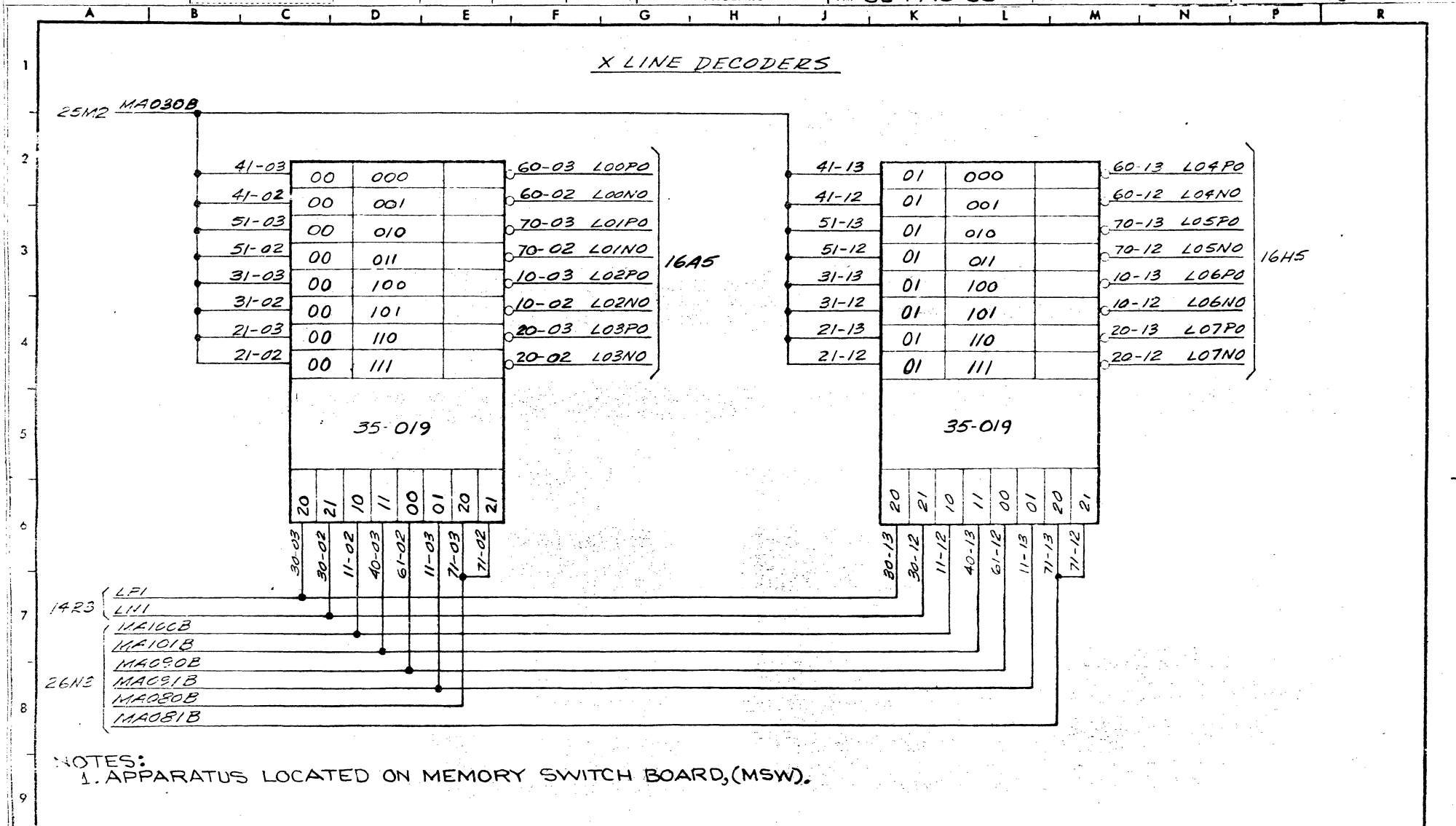
DWG NO (F550)
70B113009
11



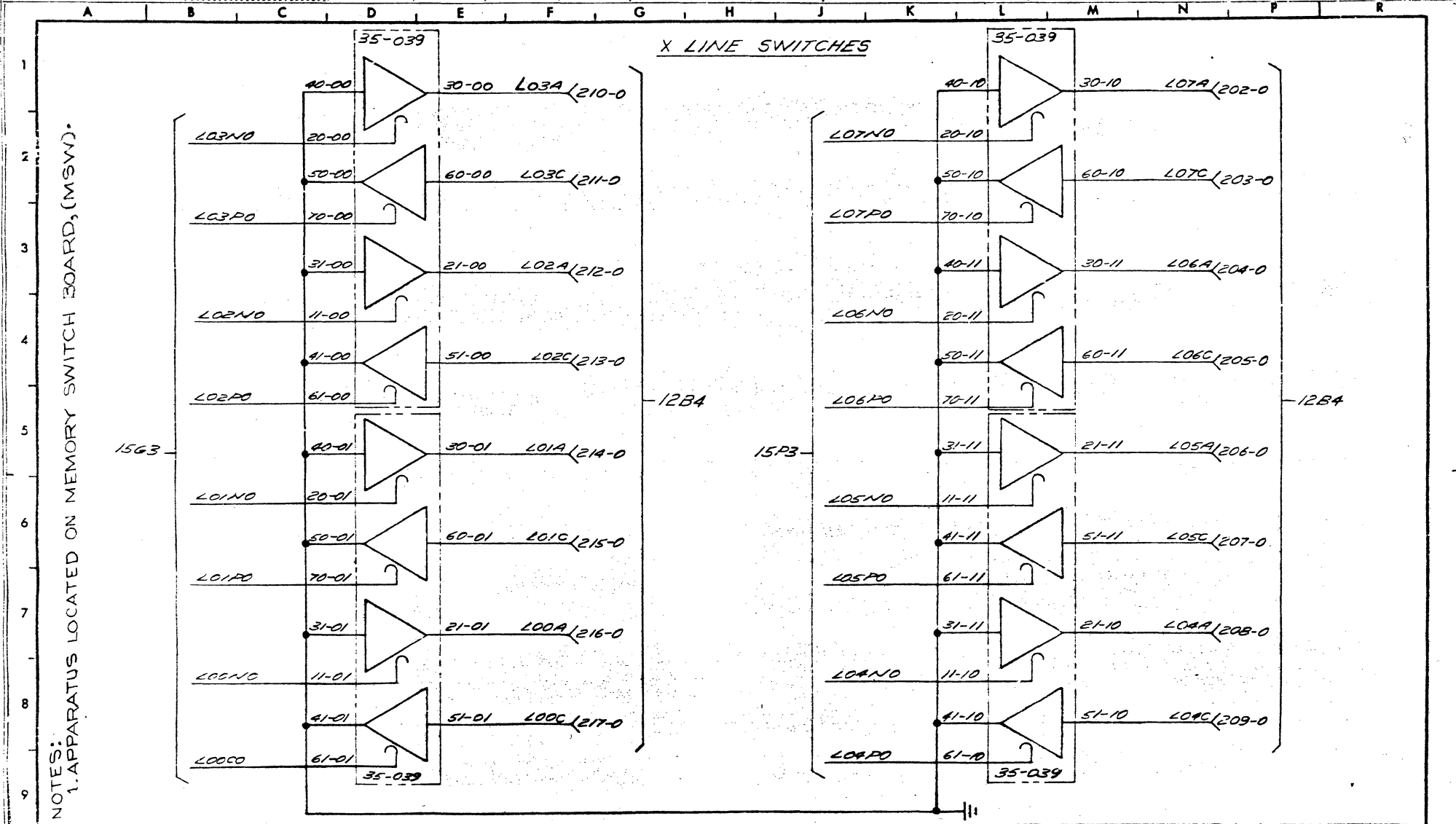




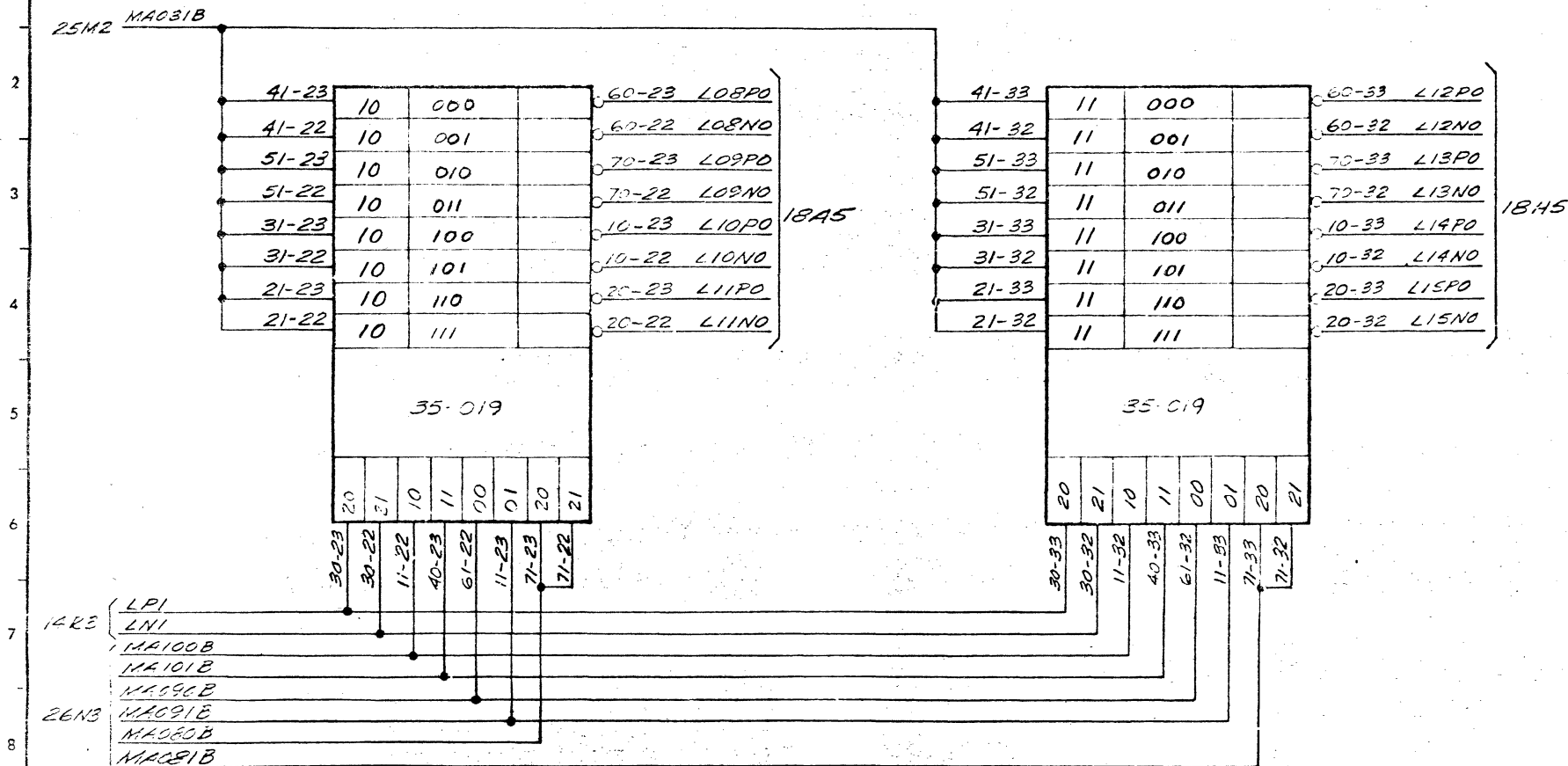
DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC 4096-16 MEMORY BLOCK FMF GE-PAC 30	DWG NO (FS50) 70B113009 CONT. ON SHEET 16 SH NO 15	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS +	DECIMALS +				ANGLES +



MADE BY G. E. Ellsworth	JUN. 25, 69	APPROVAL E. G. White	DES T. J. White	REV. C	DWG NO (FS50) 70B113009
ISSUED JUL 18 1969		TIME 26 69	DATE 00		



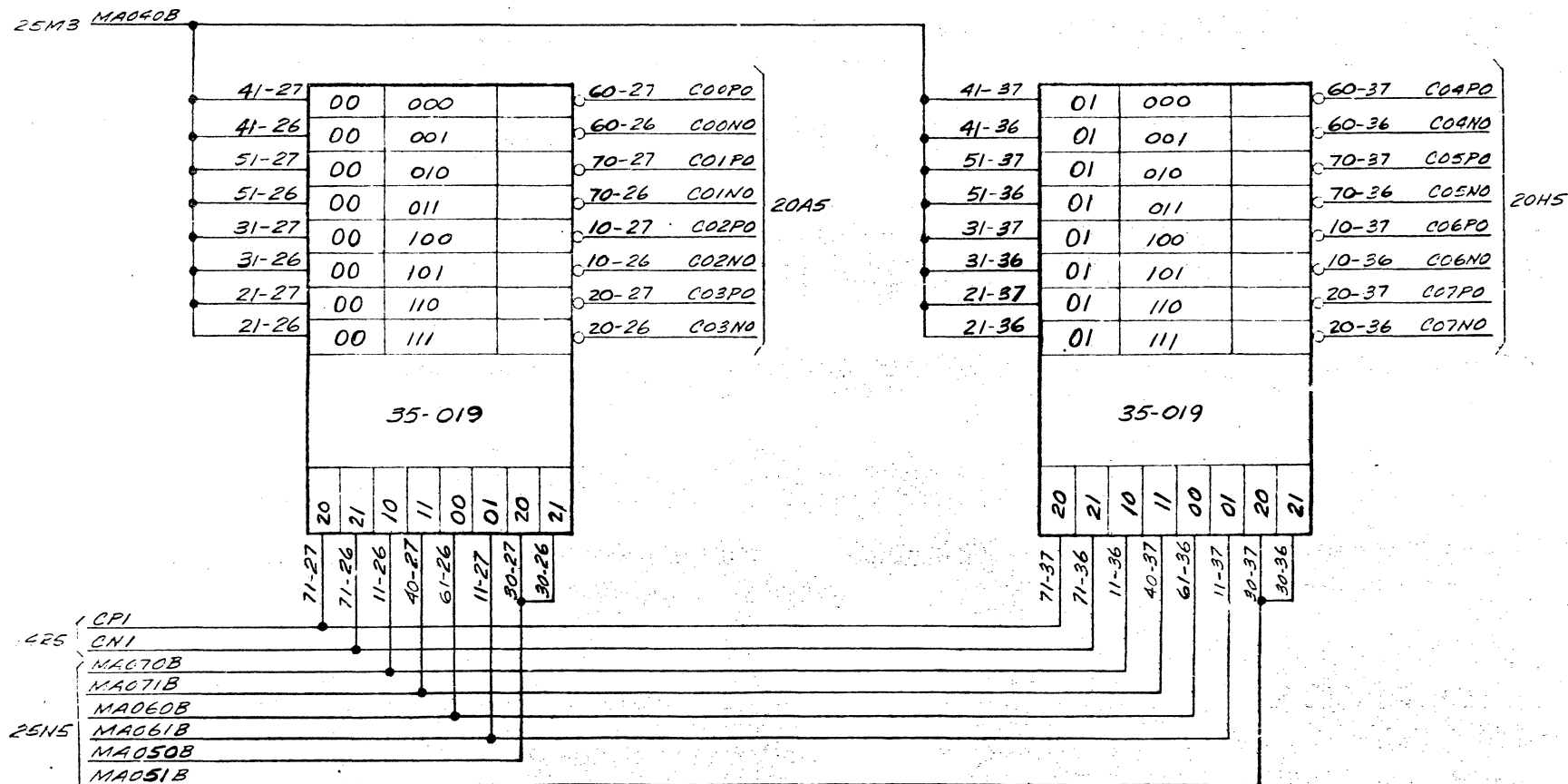
X COLUMN DECODERS



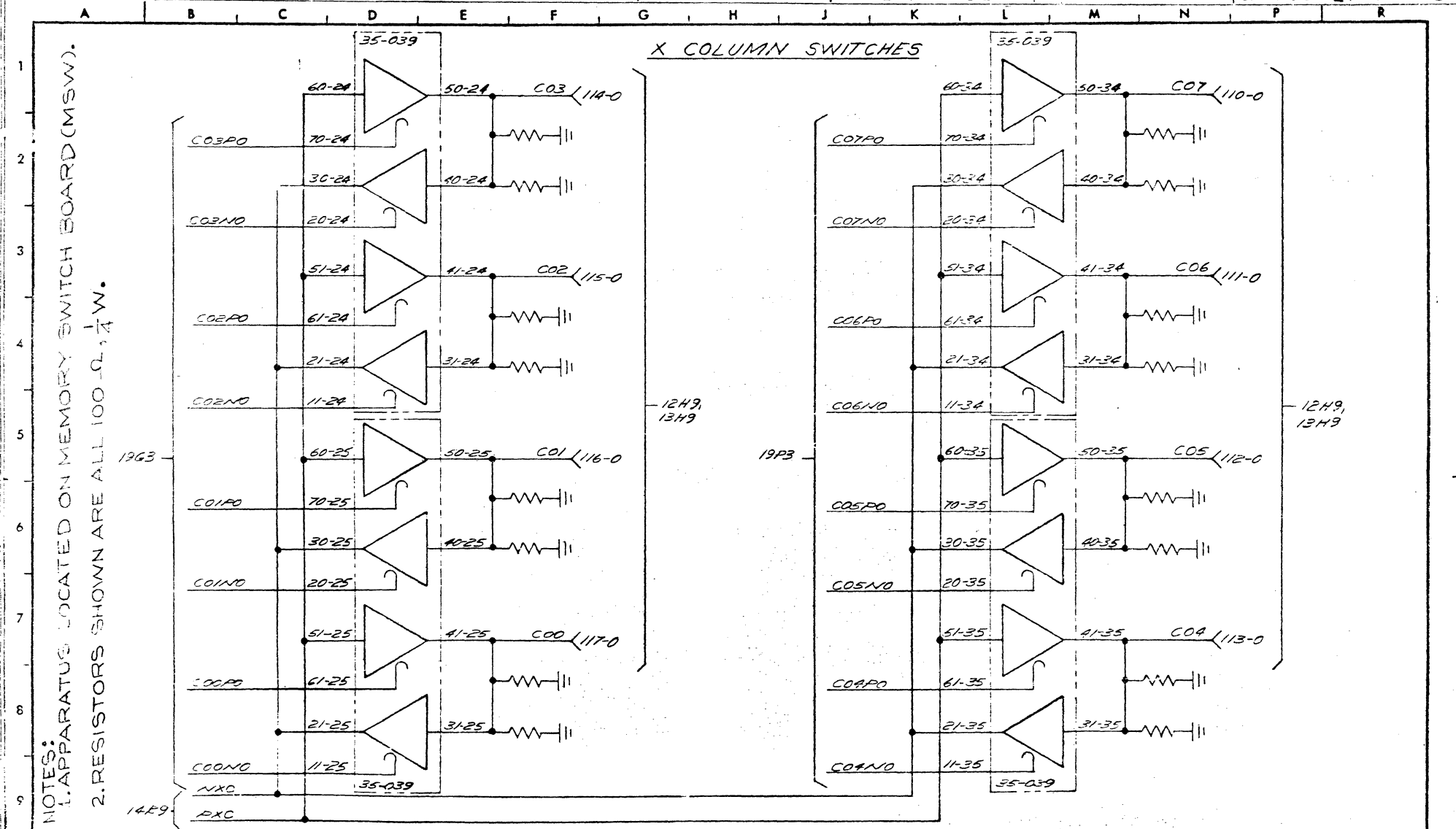
NOTES:
1. APPARATUS LOCATED ON MEMORY SWITCH BOARD, (MSW).

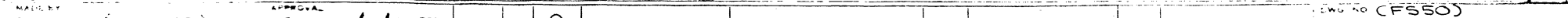
NOTES:
1. APPARATUS LOCATED ON MEMORY SWITCH BOARD, (MSW).

X COLUMN DECODERS



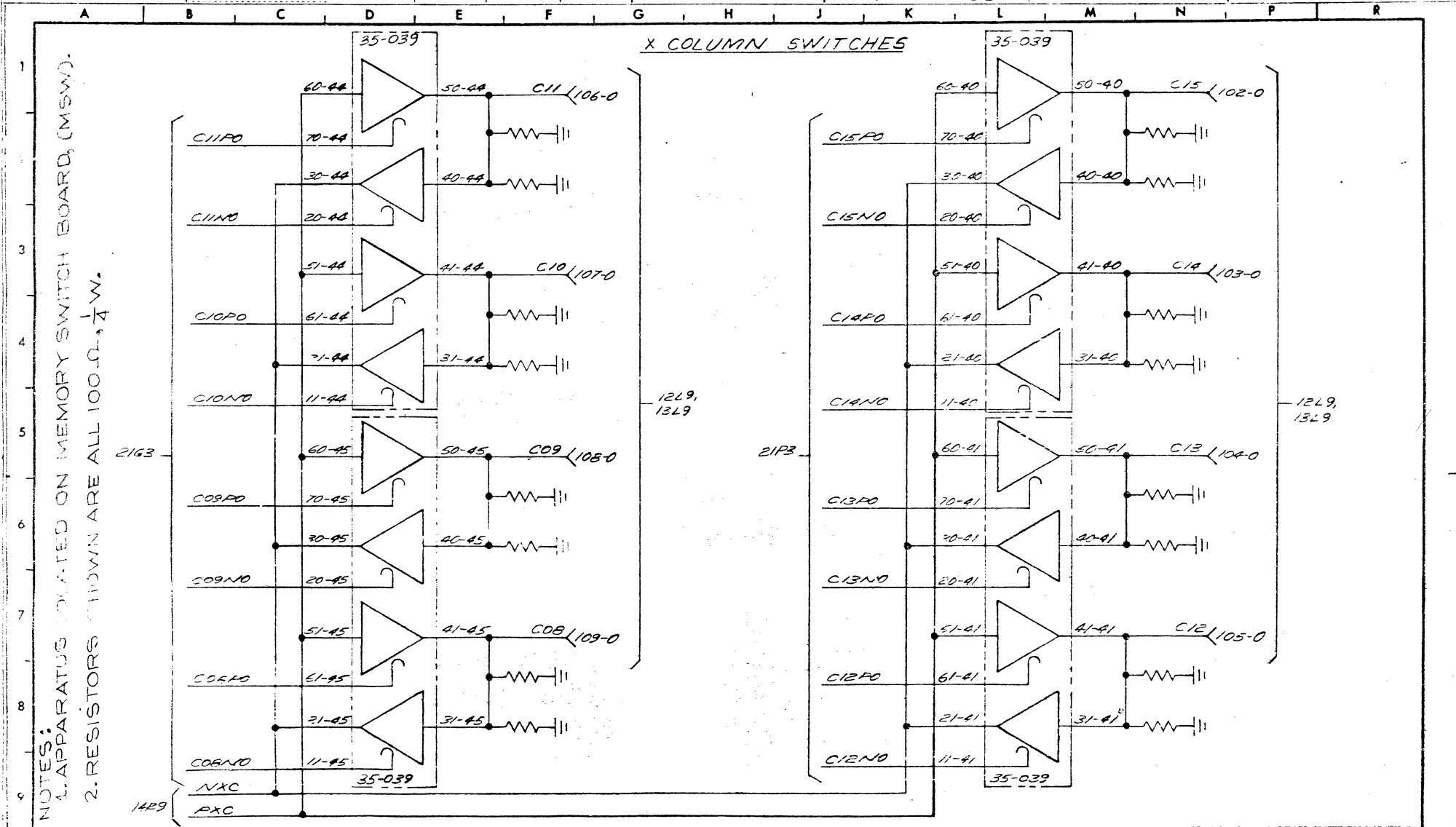
NOTES:
 1. APPARATUS LOCATED ON MEMORY SWITCH BOARD, (MSW).





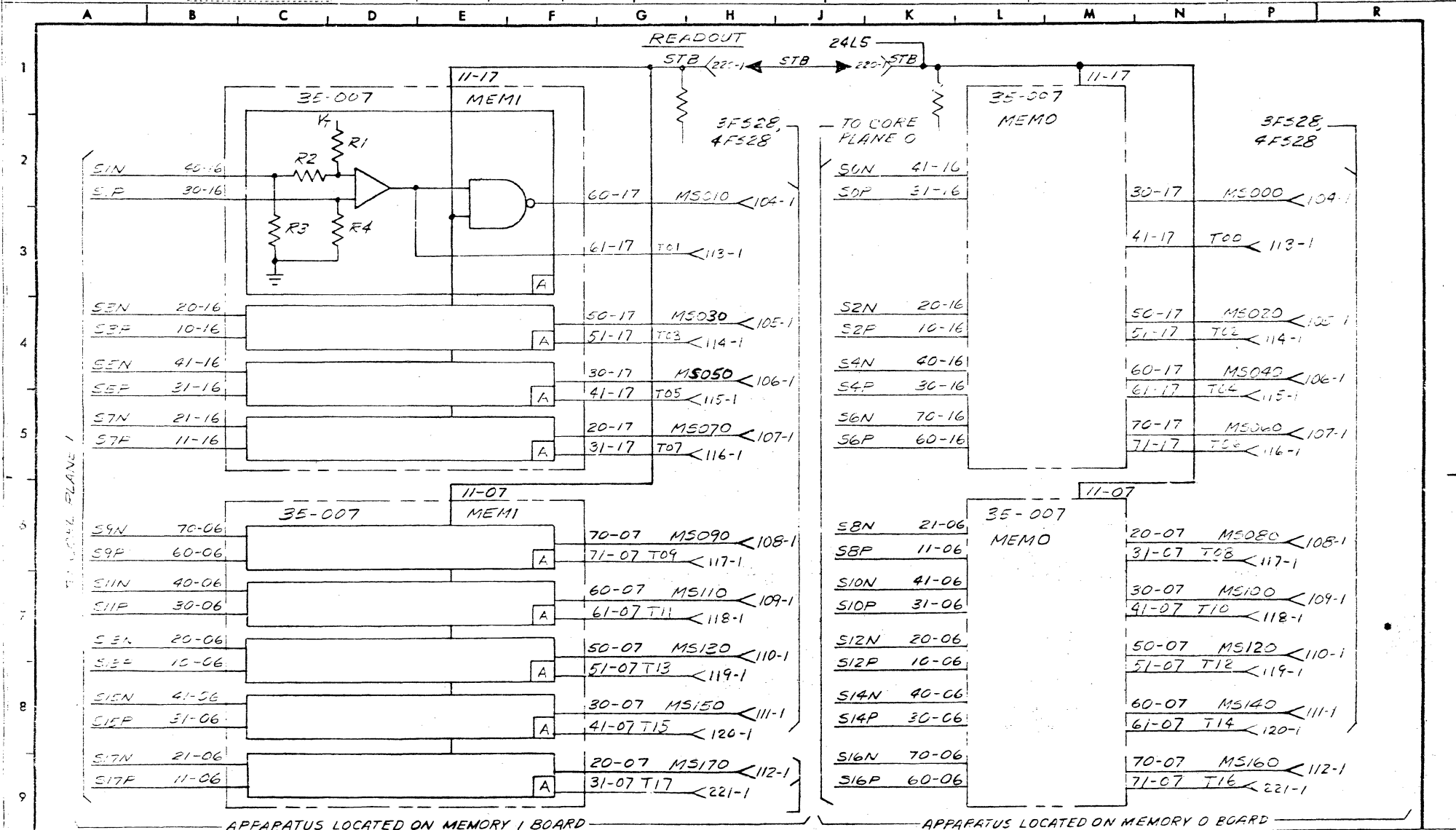
1. APPARATUS LOCATED ON MEMORY SWITCH BOARD(MSW).

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC 4096-16 MEMORY BLOCK FMF GE-PAC 30	DWC NO (FS50) 70B113009 CONT ON SHEET 23 SH NO 22
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS				
		✓	FRACTIONS +	DECIMALS +			



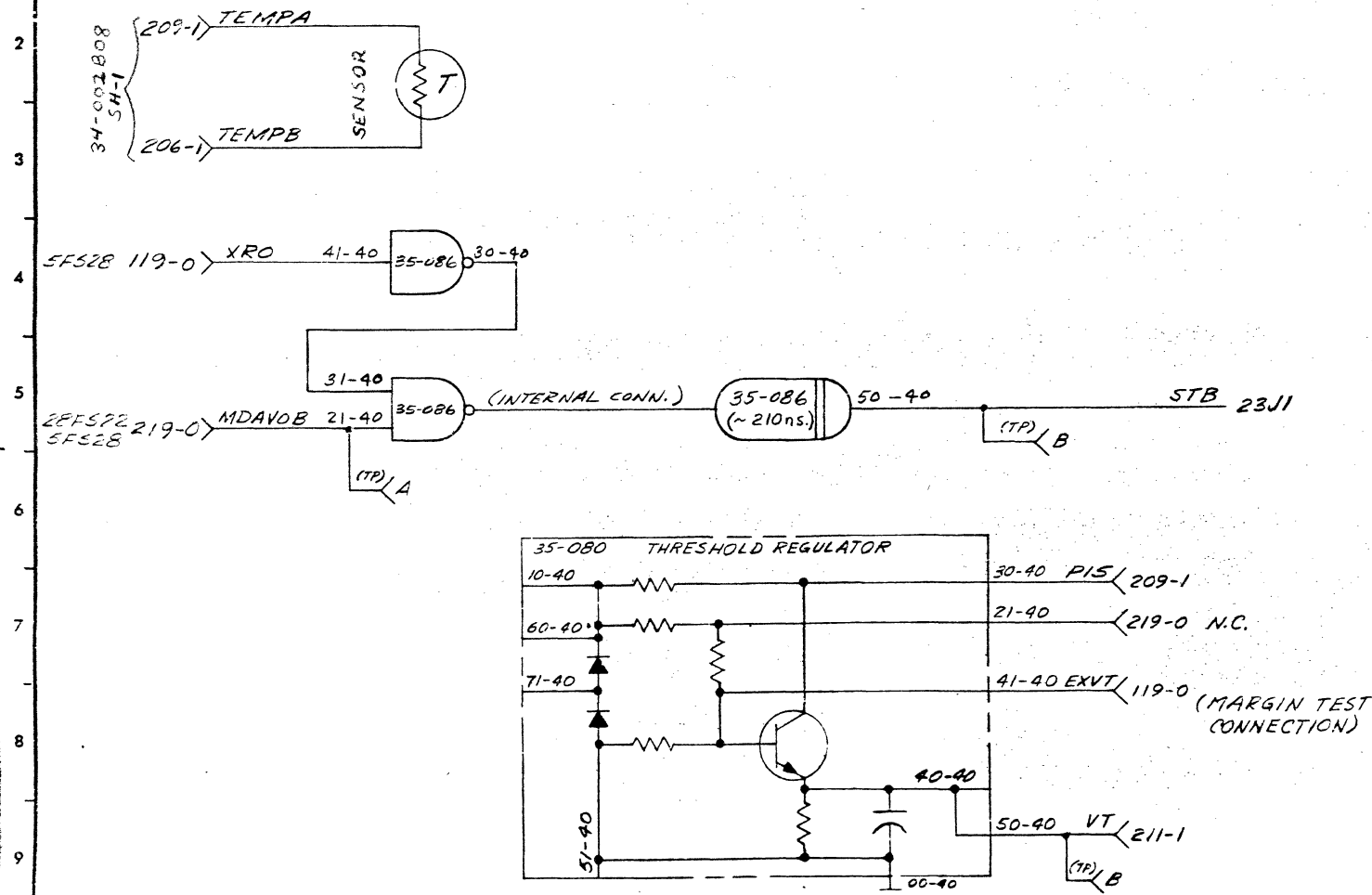
MADE BY G. E. White	APPROVAL E. G. White	DES. June 26, 69	CHKR DR	REV. C	DWG NO (FS50) 70B113009 CONT ON SHEET 23 SH NO 22
ISSUED JUL 18 1969					

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC 4096-16 MEMORY BLOCK GE-PAC 30	DWG NO (FS50) 70B113009 CONT ON SHEET 24 SH NO 23	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS	DECIMALS				ANGLES



MADE BY E. Ellsworth JUN. 25, 69 ISSUED JUL 18 1969	APPROVAL E. G. White June 26, 69	DES. CHKR. REV. C	DWG. NO. (FS50) 70B113009 CONT ON SHEET 24 SH NO 23
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STROBE TIMING



APPARATUS LOCATED
ON MEMORY 0 BOARD
(ME0)

APPARATUS LOCATED
ON MEMORY 1 BOARD
(ME1)

MADE BY
E. E. Ellsworth JUN. 25, '69
ISSUED
JUL 18 1969

APPROVAL
S. A. White
June 26, 69

DES.
CHKR. *DR*

REV. *C*

DWG NO (FS50)
70B113009
CONT. ON SHEET 25 SH 24

DIST

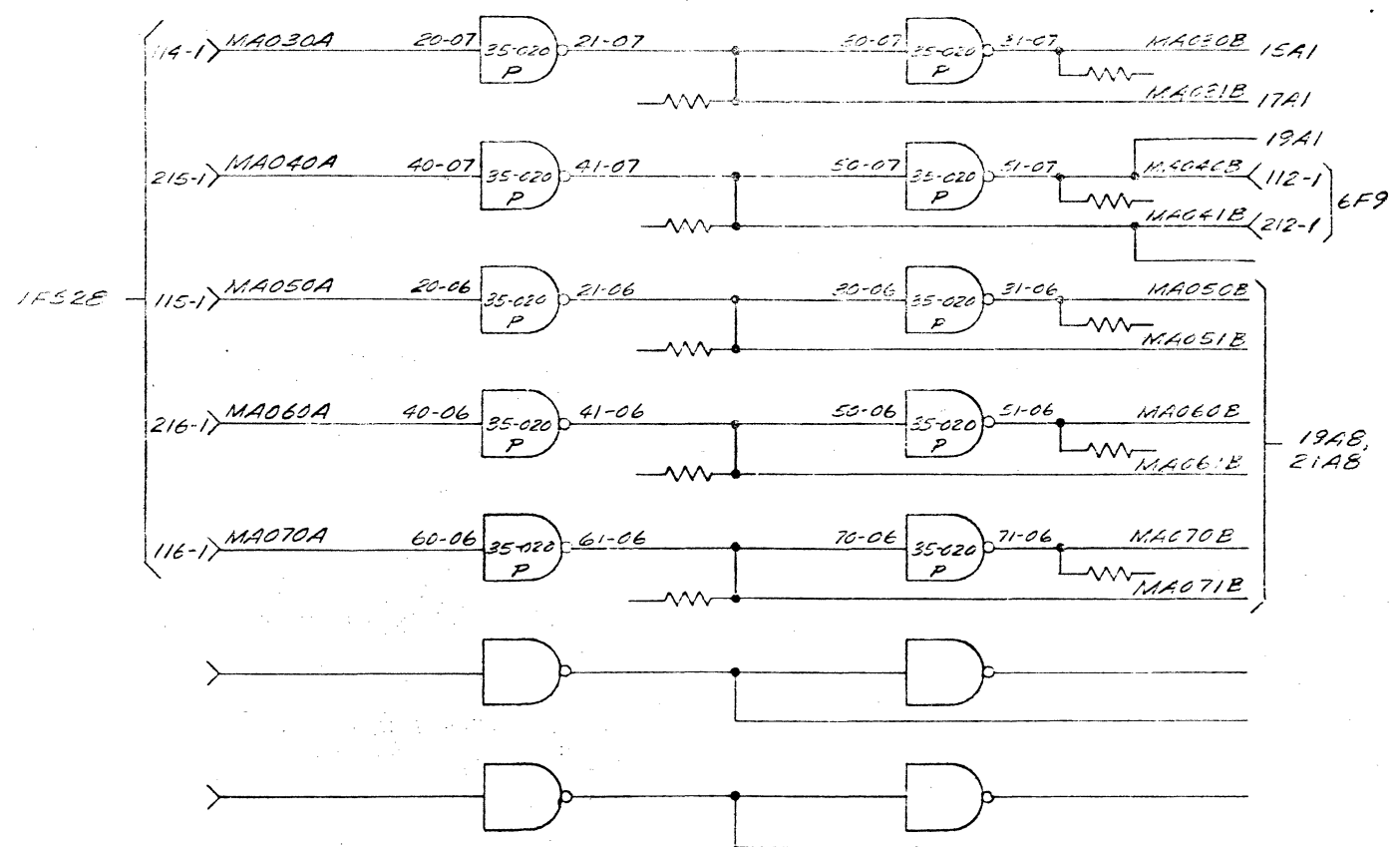
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				
APPLIED PRACTICES	SURFACES	TOLERANCES ON MECHANICAL DIMENSIONS		
	✓	FRACTIONS	DECIMALS	ANGLES
		+	+	+

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC
4096-16 MEMORY BLOCK
FMP GE-PAC 30

DWG NO (FS50)
70B113009
CONT ON SHEET 26 SH NO 25

ADDRESS BUFFER



- NOTES:
1. APPARATUS LOCATED ON MEMORY SWITCH BOARD, (MSW).
 2. CONNECT TERMINALS 10 & 11 TO TERMINAL 81 AT MOTHER BOARD POSITIONS 06 & 07 (+5V).

MADE BY
G. Elsworth JUN. 23, 69
JUL 18 1969

APPROVAL
S. G. White
June 26, 69
CHKR DR

REV C

DWG NO (FS50)
70B113009
CONT ON SHEET 26 SH NO 25

DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

✓

+

+

+

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC

4096-16 MEMORY BLOCK

FMF GE-PAC 30

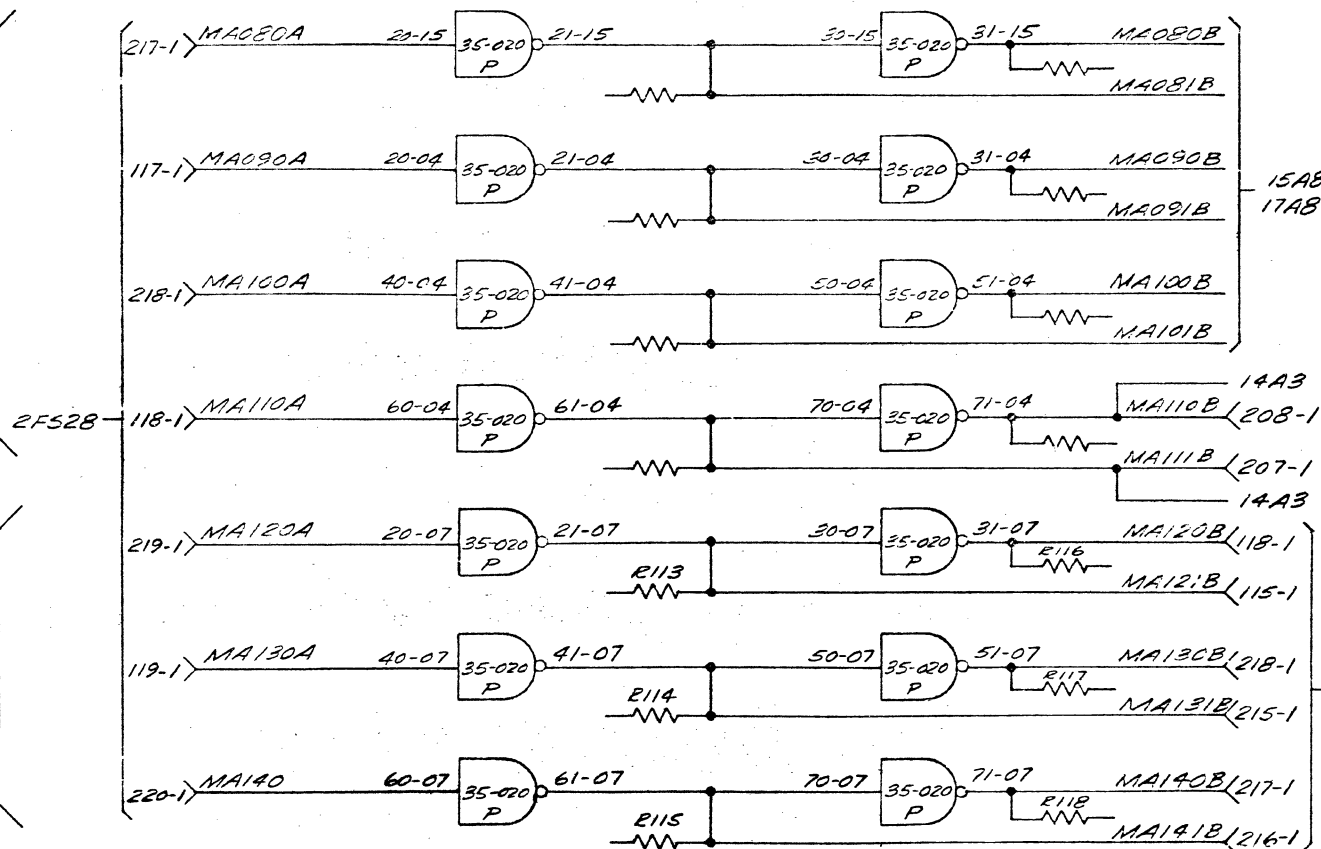
FCF

DWG NO (FSS0)

70B113009

CONT ON SHEET 27 SH NO 26

A B C D E F G H J K L M N P R

MEMORY
SWITCH
BOARD
(MSW)MEMORY
CURRENT
DRIVER
(MCD)

NOTES:

1. CONNECT TERMINALS 10 & 11 TO TERMINAL 81 AT MOTHER BOARD POSITIONS 04, 07 & 15 (+5).

MADE BY

E. Ellsworth JUN. 25, '69

APPROVAL

E.G. White

DES.

June 26, 69

CHKR

REV.

C

DWG NO (FSS0)

70B113009

CONT ON SHEET 27 SH NO 26

JUL 18 1969

DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING

APPLIED PRACTICES

SURFACES

TOLERANCES ON DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

GENERAL ELECTRIC

PROCESS COMPUTER
PHOENIX

TITLE FUNCTIONAL SCHEMATIC

4096-16 MEMORY BLOCK

FMF GE-PAC 30

DWG NO (FS50)

70B113009

CONT ON SHEET F SH NO 27

BACK PANEL MAP FS50																	
CONN POS			01			02			03			05			06		
MCH 4, BD			MCD			MEI (ROM MEM)			ME0			MEN (ROM SW)			MSFC		
VERT. POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
22	PS	GND		PS	GND		PS	GND		PS	GND		PS	GND		PS	GND
21	MC2	MC1					PS	T17		PS	T16		PS	N15	MC2	MC1	
20	MA150A	MA120A			MA140A		T15	STB		T14	STB				MA150A	MA120A	5151
19	MA130A	MA120A			MA130A	MA120A	T13	MA120A		T12	MA120A				MA130A	MA120A	5141
18	MA110A	MA100A			MA120A	MA130A	T11	MA130A		T10	MA130A		MA110A	MA100A	MA110A	MA100A	5131
17	MA090A	MA080A			MA140A		T09	MA140A		T08	MA140A		MA110A	MA100A	MA090A	MA080A	5121
16	MA070A	MA060A			MA140A		T07	MA140A		T06	MA140A		MA070A	MA060A	MA070A	MA060A	5111
15	MA050A	MA040A			MA121B	MA121B	T05	MA121B		T04	MA121B		MA050A	MA040A	MA050A	MA040A	5101
14	MA030A	MA020A			MA030A	MA020A	T03	MA121B		T02	MA121B		MA030A	MA020A	MA030A	MA020A	5091
13	MA010A	MA000A			MA010A	MA000A	T01	ENI		T00	ENI		MA010A	MA000A	MA010A	MA000A	5071
12	MS170	MS160			ENCA	ENI	MS170	N15(6)		MS160	N15(6)		MA040A	MA030A			5061
11	MS150	MS140			MA040A	MA030A	MS150	VT		MS140	VT			ENCA	MS150	MS140	5051
10	MS130	MS120			ENCB		MS130	PS(2)		MS120	PS(12)				MS130	MS120	5041
09	MS110	MS100					MS110	PS(VT)		MS100	TEMPA				MS110	MS100	5031
08	MS090	MS080					MS090	VT		MS080					MS090	MS080	5021
07	MS070	MS060					MS070			MS060					MS070	MS060	5011
06	MS050	MS040			BW17	BW16	MS050	N.C.(31)		MS040	TEMPB				MS050	MS040	5001
05	MS030	MS020			BW15	BW14	MS030	N.C.(46.2)		MS020	ENCA				MS030	MS020	
04	MS010	MS000			BW13	BW12	MS010			MS000	ENCB				MS010	MS000	LM410
03	MC4	MC3			BW11	BW10	BW17	BW15		BW16	BW14				MC4	MC3	LM440
02	OVER1	PROLO			BW09	BW08	BW13	BW11		BW12	BW10				OVER1	PROLO	
01	STW0	CWRO			BW07	BW06	BW09	BW07		BW08	BW06				STW0	CWRO	
00	PS	GND						GND			GND			GND		PS	GND
22	PS	GND						GND			GND			GND		PS	GND
21	ERO	CL0F			BW05	BW04	BW03	BW05		BW02	BW04			GND		STW0	CL0F
20	XRO	CPFH			BW03	BW02		BW01		XRO	BW00			GND		HL0F(PS)	TR0
19	N50	CPFL			BW01	BW00		EXVT	N.C.(21)		MDA00B			GND		N50	MDA00
18	NCO	PFH1						GND	GND		GND			GND		NCO	MDA00
17	MDA00B	PEL1			GND	GND		C00	LO0C		C00	LO0C	LO0C	C00	LO0C	MDA00B	MDA00A
16	MEN1	PFH0			MEN1	ROW11		C01	LO0A		C01	LO0A	LO0A	C01	LO0A	MDA00B	MDA00A
15	MDA00	PFLO			ROW01	WS0		C02	LO0C		C02	LO0C	LO0C	C02	LO0C	MDA00	MDA00
14	SPR0	MS			BRO	NCO		C03	LO0A		C03	LO0A	LO0A	C03	LO0A	MDA00	MDA00
13	SPR0	SCLR0				SCLR0		C04	LO0C		C04	LO0C	LO0C	C04	LO0C	MDA00	MDA00
12	Y.L170	MD180			MD170	MD180		C05	LO0A		C05	LO0A	LO0A	C05	LO0A	MDA00	MDA00
11	MD150	MD140			MD150	MD140		C06	LO0C		C06	LO0C	LO0C	C06	LO0C	MDA00	MDA00
10	MD130	MD120			MD130	MD120		C07	LO0A		C07	LO0A	LO0A	C07	LO0A	MDA00	MDA00
09	MD110	MD100			MD110	MD100		C08	LO0C		C08	LO0C	LO0C	C08	LO0C	MDA00	MDA00
08	MD090	MD080			MD090	MD080		C09	LO0A		C09	LO0A	LO0A	C09	LO0A	MDA00	MDA00
07	MD070	MD060			MD070	MD060		C10	LO0C		C10	LO0C	LO0C	C10	LO0C	MDA00	MDA00
06	MD050	MD040			MD050	MD040		C11	LO0A		C11	LO0A	LO0A	C11	LO0A	MDA00	MDA00
05	MD030	MD020			MD030	MD020		C12	LO0C		C12	LO0C	LO0C	C12	LO0C	MDA00	MDA00
04	MD010	MD000			MD010	MD000		C13	LO0A		C13	LO0A	LO0A	C13	LO0A	MDA00	MDA00
03	MS.70	PPH0						C14	LO0C		C14	LO0C	LO0C	C14	LO0C	MDA00	MDA00
02	MS160	PPLO						C15	LO0A		C15	LO0A	LO0A	C15	LO0A	MDA00	MDA00
01	PCW0	MBY1A			PS	N15		PS	N15		PS	N15			PS	N15	MDA00
00	PS	GND				GND			GND			GND			PS	GND	

MADE BY
G. Ellsworth JUN. 25, '69
ISSUED JUL 18 1969

APPROVAL

E. A. White
June 26, 69

DES

CHKR

REV

C

DWG NO (FS50)

70B113009

CONT ON SHEET F SH NO 27

GENERAL ELECTRIC
PROCESS COMPUTERS
PHOENIX ARIZONA

TITLE FUNCTIONAL SCHEMATIC.
MEMORY PARITY & PROTECT

DRAWING NUMBER	CONT.	PAGE
70B113010	0A	0
FIRST MADE FOR		
GE-PAC 30		
(FSS1)		

REVISION STATUS

[illegible]

REISSUED

✓	A	Issued
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REVISION STATUS

[illegible]

REISSUED

(FSS1)

MADE BY
B. Howard 24 JUNE '69
ISSUED
July 18, 1969

APPROVAL
DR
E. G. White
June 25, 69

REV.	C
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DWG. NO. 70B113010	CONT. 0A	PAGE 0
PRINTS TO: K7-08		

DWG NO (ESSI)
70B113010
CONT. ON SHEET SH NO OA

SHEET INDEX

[illegible]

ISSUE
DATE

69-28-69	12-20-68
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SUPPORTING INFORMATION

CATEGORY	PART NO.
MOTHER BOARD	
MEM. PARITY & PROTECT	32-087E01
MEM. PARITY	32-087F01R0
MEM. PROTECT	32-087F02B0

SHEET INDEX NOTES:

1. CHANGES ON THIS DRAWING SHALL REQUIRE ONLY THE REISSUE OF SHEETS AFFECTED.
2. THE ISSUE OF THIS SHEET SHALL DETERMINE THE LATEST ISSUE OF THIS DRAWING.

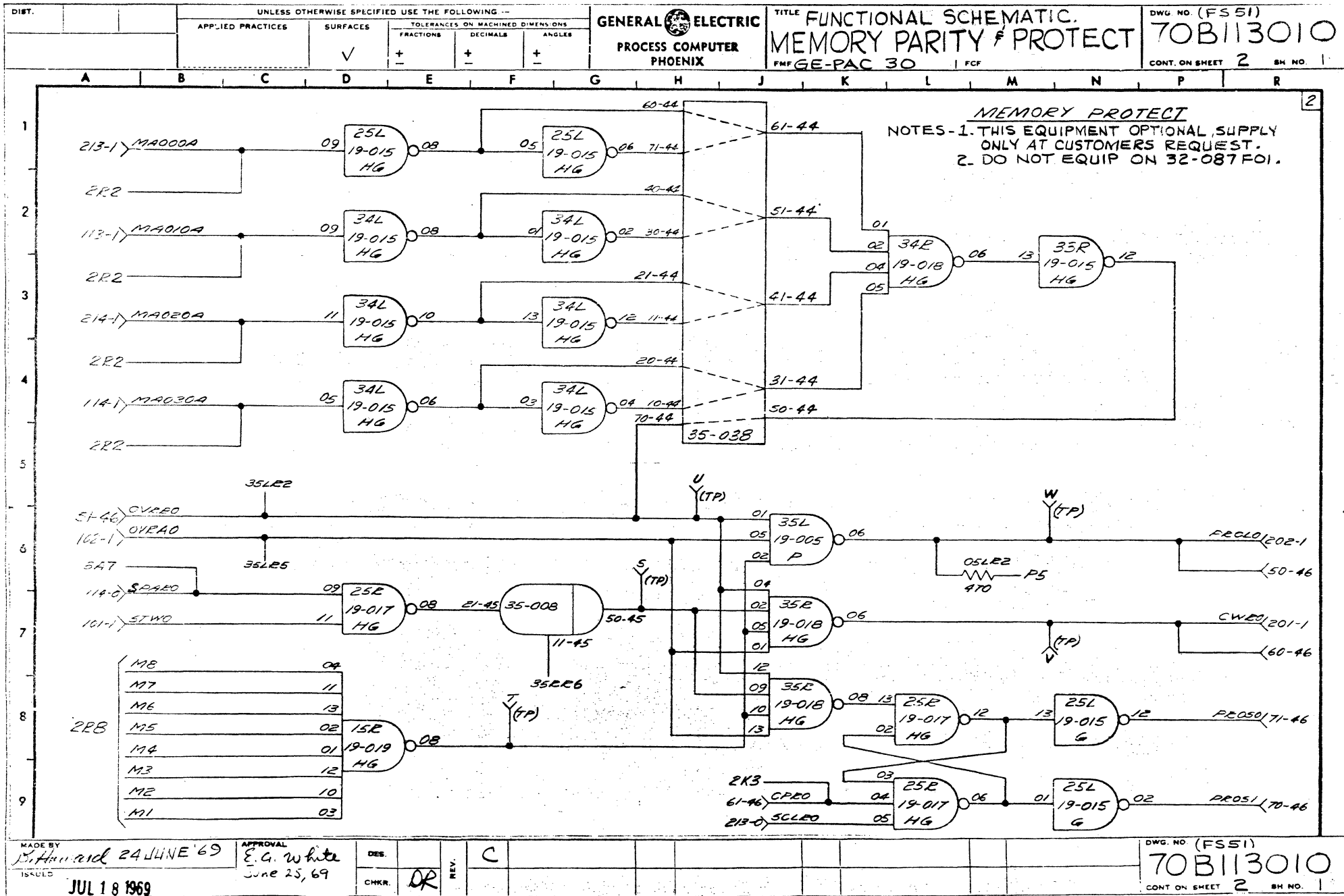
MADE BY
Brown and 24 June 62
ISSUED
JUL 18 1969

APPROVAL
E. a. White
June 25, 69

DES

CHKR *OK*

DWG NO (FS 51)
70B113010
CONT ON SHEET 1 SH NO. OA



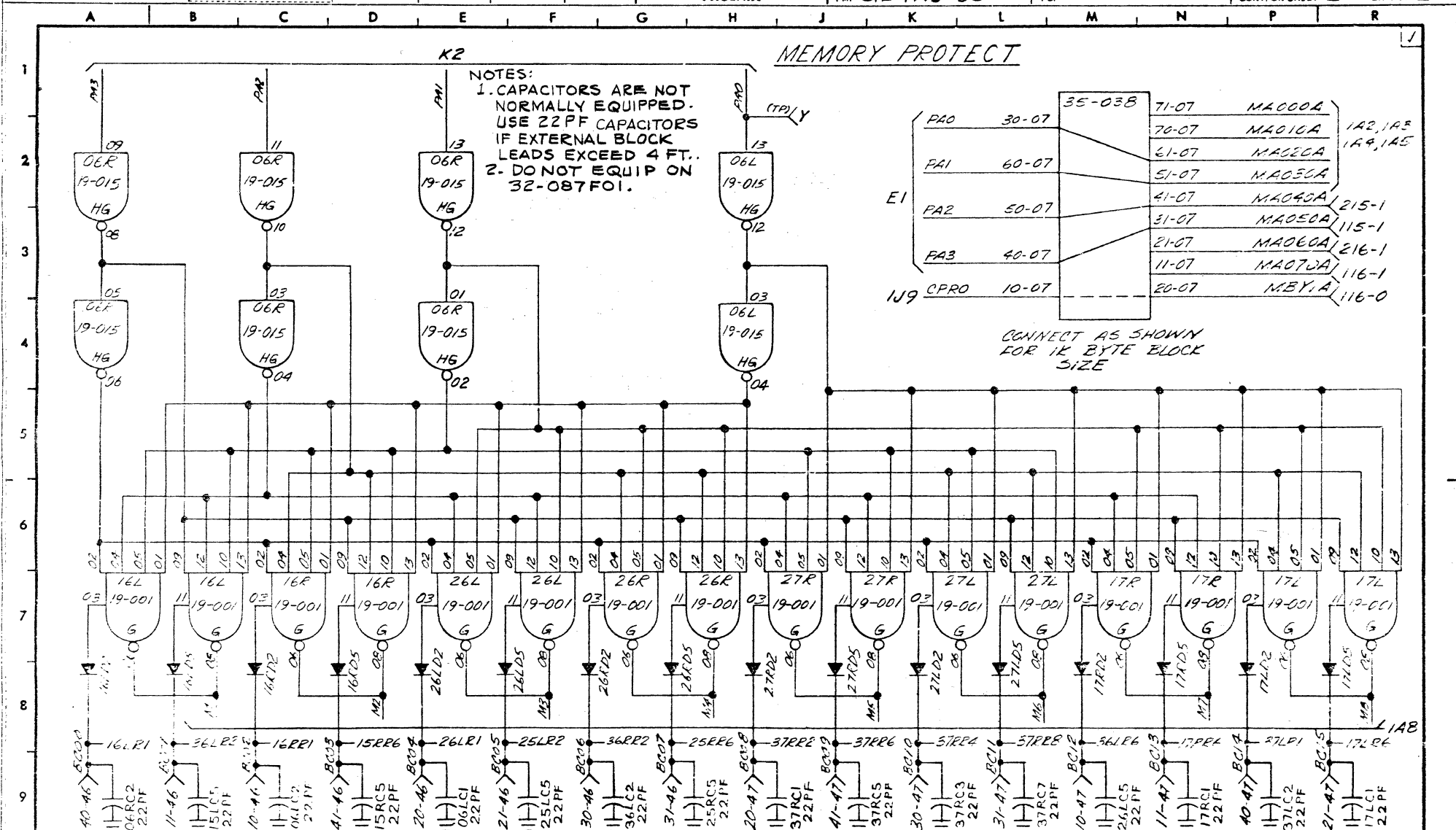
MADE BY
E. G. White 24 JUNE '69
 JUL 18 1969

APPROVAL
E. G. White
 June 25, 69

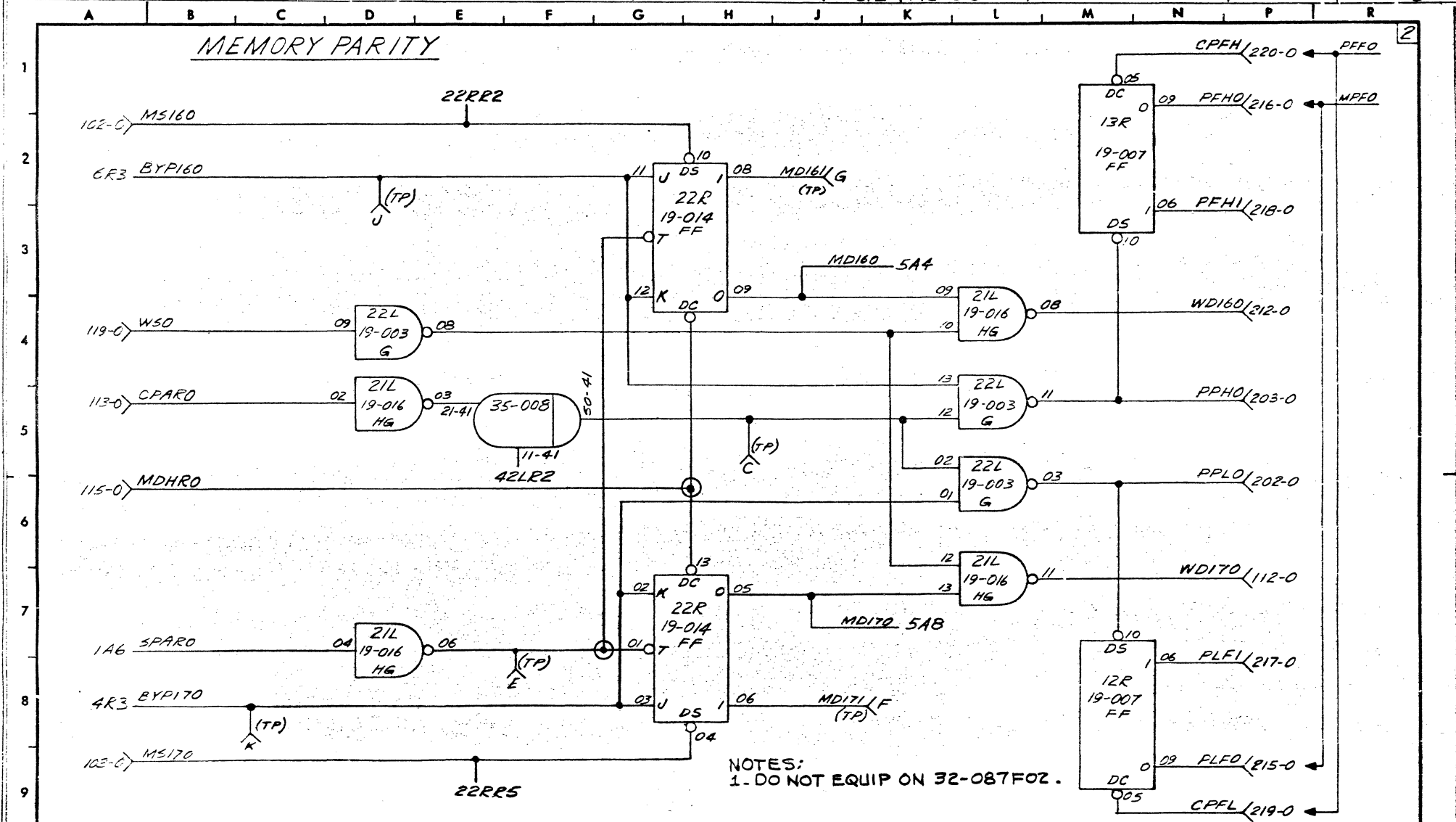
DES.
 CHKD. *DR*

REV.
 C

DWG. NO. (FSS1)
70B113010
 CONT. ON SHEET **2**

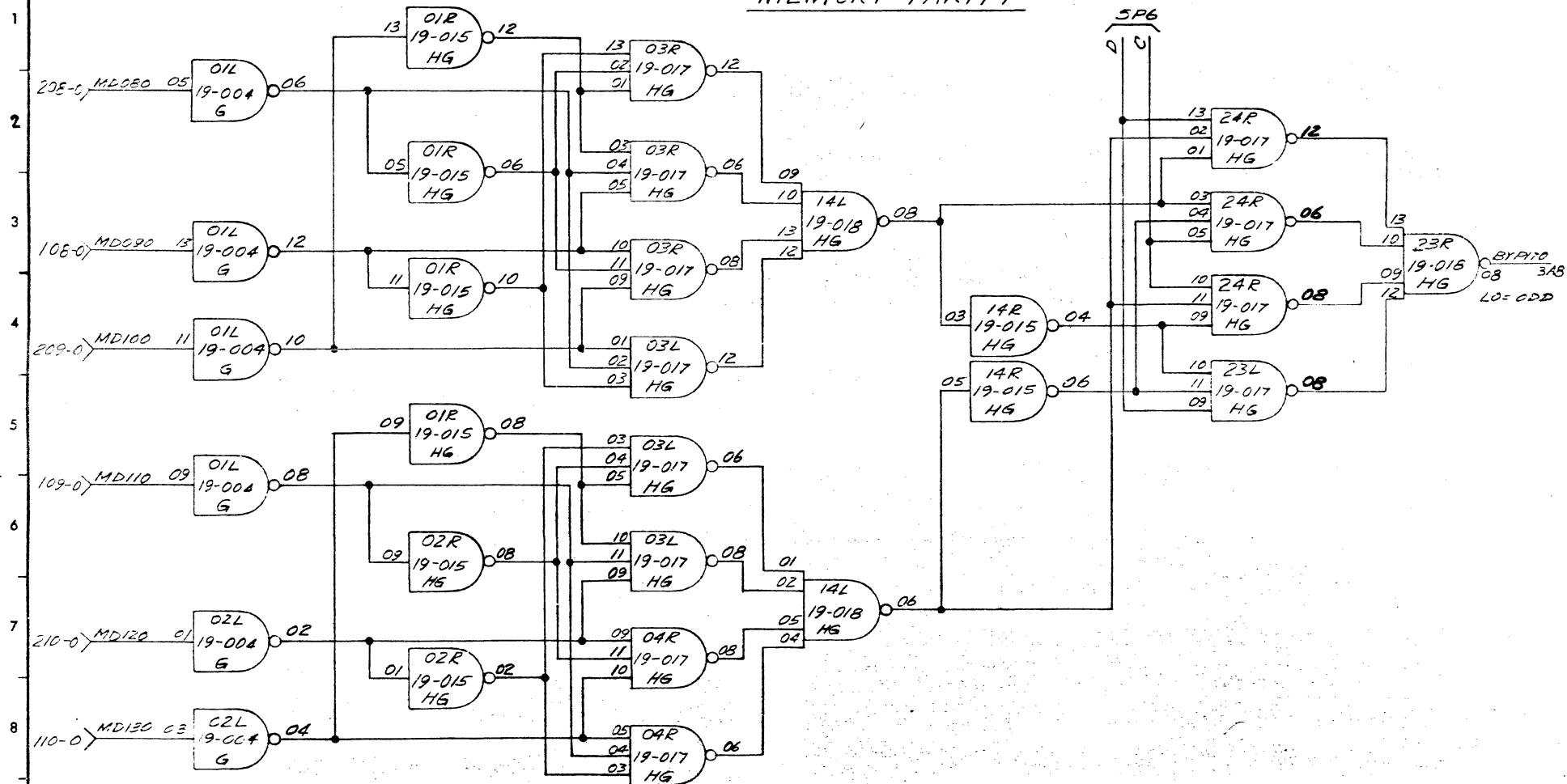


DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:--				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC. MEMORY PARITY & PROTECT FMF GE-PAC 30	DWG. NO (F551) 70B113010	CONT. ON SHEET 4	SH. NO. 3
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS						
		✓	FRACTIONS	DECIMALS					



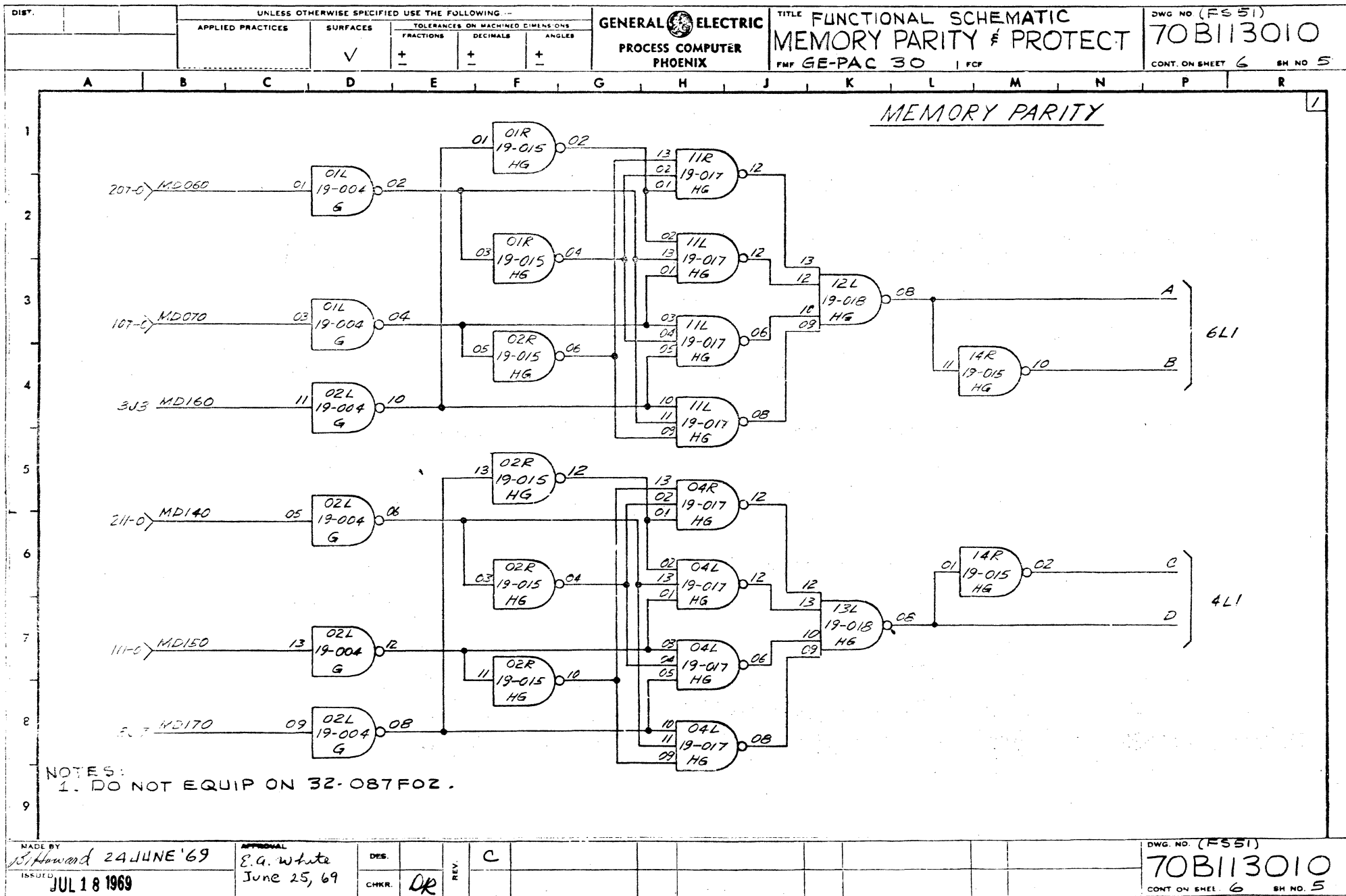
MADE BY B. Howard 24 JUNE '69	APPROVAL E. G. White June 25, 69	DES. CHKR. DR	REV. C	DWG. NO (F551) 70B113010	CONT. ON SHEET 4	SH. NO. 3
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MEMORY PARITY



NOTES:

1. DO NOT EQUIP ON 32-087 F02.



MADE BY
S. Howard 24 JUNE '69
 ISSUED
 JUL 18 1969

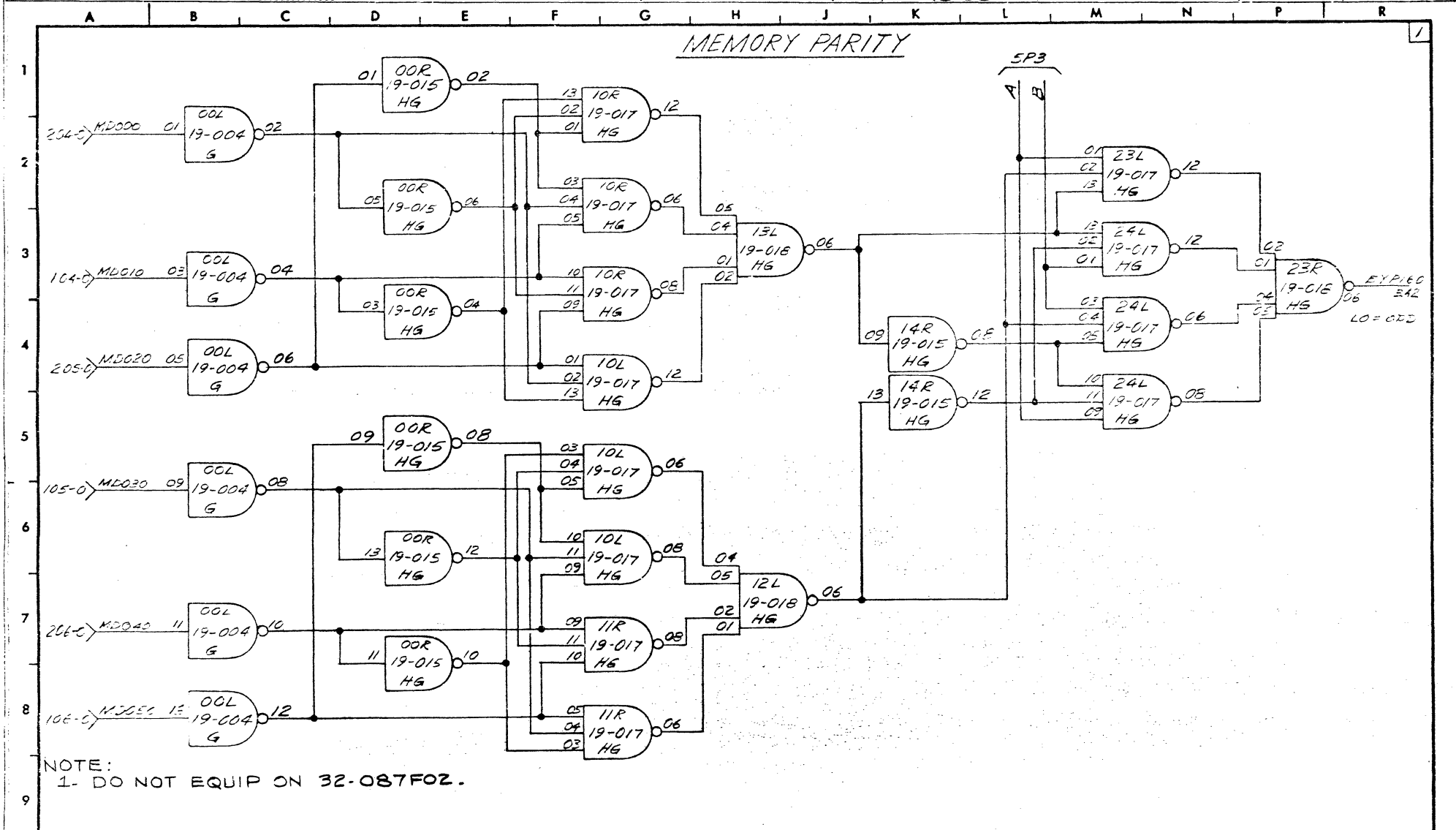
APPROVAL
E. A. White
 June 25, 69

DES.
 CHKR. *DR*

REV. *C*

DWG. NO. (FS 51)
70B113010
 CONT. ON SHEET 6 SH. NO. 5

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC, MEMORY PARITY & PROTECT GE-PAC 30	DWG NO (FSS1) 70B113010 CONT. ON SHEET 7 SH NO 6	
	APPLIED PRACTICES	SURFACE	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS	DECIMALS				ANGLES



MADE BY B. Howard	APPROVAL E. A. White	DES.	REV.	C																
ISSUED JUL 18 1969	June 25, 69	CHKR.	DR																	

DWG. NO (FSS1)
70B113010
CONT. ON SHEET 7 SH NO. 6

DIST.	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING				GENERAL ELECTRIC PROCESS COMPUTER PHOENIX	TITLE FUNCTIONAL SCHEMATIC MEMORY PARITY & PROTECT FMF GE-PAC 30	DWG NO (FSS1) 70B113010 CONT. ON SHEET 8 SH NO 7	
	APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS					
		✓	FRACTIONS	DECIMALS				ANGLES
			+	+	+			

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	BACK PANEL MAP																		
	CONN POS	MPC																	
	MOTH. BD	HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS			HORIZ POS		
	VERT. POS	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
2	22		P5	GND															
	21																		
	20																		
	19																		
	18																		
	17																		
	16		MA070A	MA060A															
3	15		MA050A	MA040A															
	14		MA030A	MA020A															
	13		MA010A	MA000A															
	12																		
	11																		
	10																		
	09																		
4	08																		
	07																		
	06																		
	05																		
	04																		
	03																		
5	02		OVRAI	PROLO															
	01		STW0	CWRO															
	00		P5	GND															
6	22		P5	GND															
	21																		
	20			CPFH															
	19		W50	CPFL															
	18			PFH1															
	17			PLF1															
	16		MBY1A	PFH0															
	15		MDHRO	PFLO															
7	14		SPARO	NPARO															
	13		CPARO	SCLRO															
	12		WD170	WD160															
	11		MD150	MD140															
	10		MD130	MD120															
	09		MD110	MD100															
	08		MD090	MD080															
8	07		MD070	MD060															
	06		MD050	MD040															
	05		MD030	MD020															
	04		MD010	MD000															
	03		MS170	PPH0															
	02		MS160	PPLO															
9	01																		
	00		P5	GND															

MADE BY
S. Howard 24 JUNE '69
 JUL 18 1969

APPROVAL

DES.

CHKR.

DR

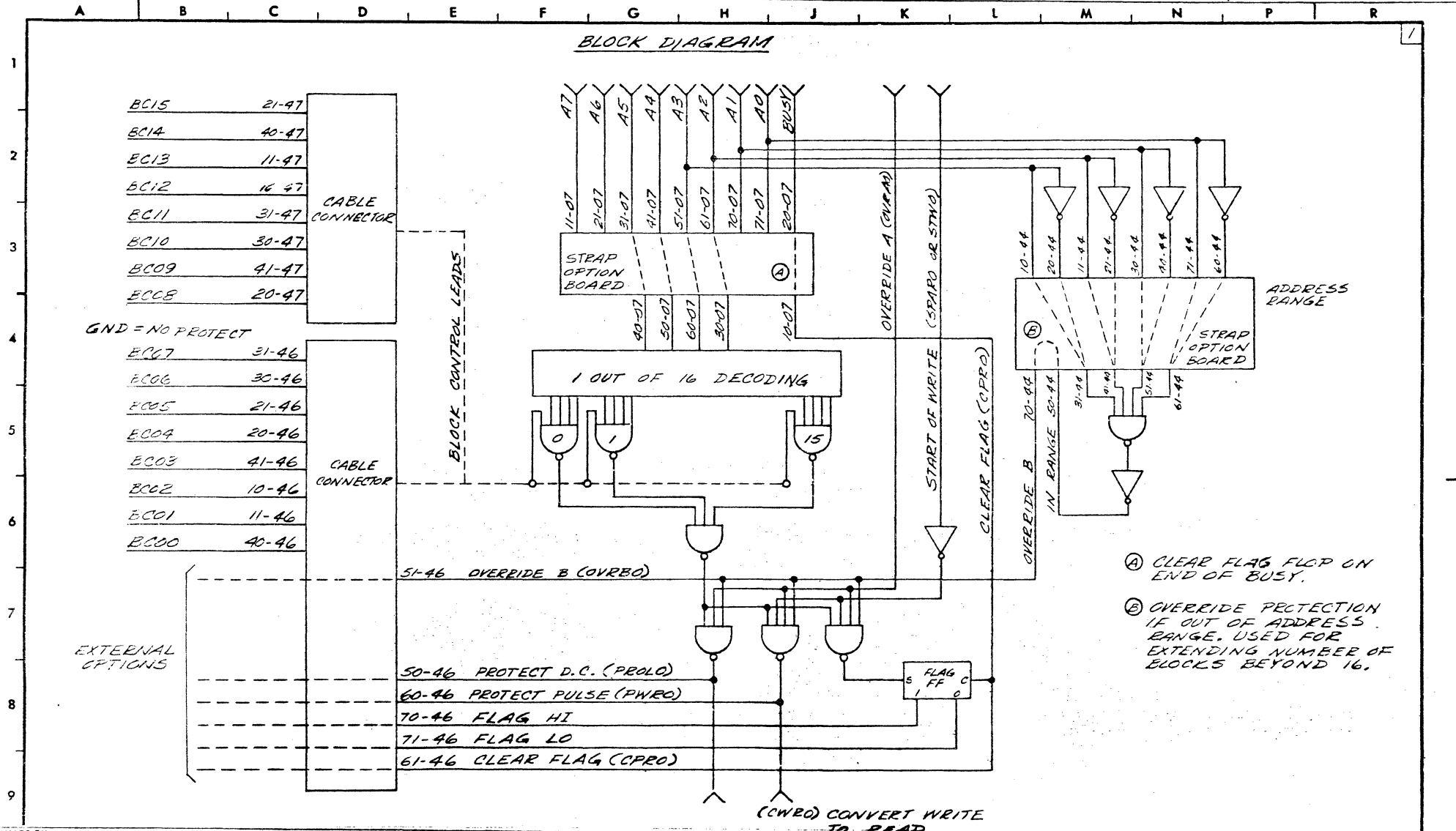
REV.

C

DWG NO (FSS1)

70B113010

CONT. ON SHEET 8 SH NO. 7



GENERAL ELECTRIC
PROCESS COMPUTERS
PHOENIX ARIZONA

TITLE SCHEMATIC DIAGRAM,
POWER SUPPLY - OM17-A2

DRAWING NUMBER		CONT.	PAGE
70B113065		1	0
FIRST MADE FOR			
GE-PAC 30			
(34-002-R01B08)			

[illegible][illegible]

(34-002-R01 B08)

MADE BY *B. Howard* 24 JUNE '69

APPROVAL

E. C. White
June 26, 69

REV.

C

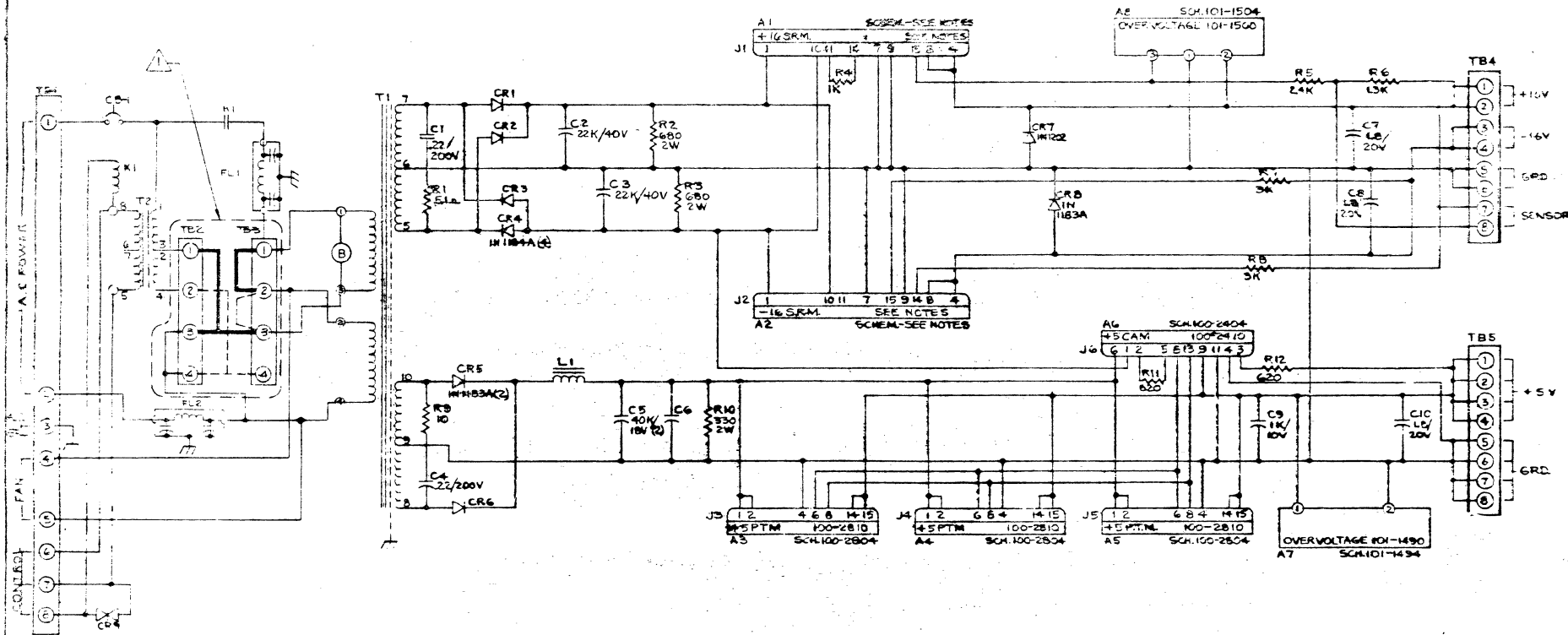
DWG. NO.

70B113065

CONT.	PAGE
1	0

**PRINTS
TO:**

NOTES:
 1. THE SOLID LINE INDICATE THE CONNECTION FOR AN INPUT OF 115 VOLTS. THE DOTTED LINES ARE THE 230 VOLT CONNECTION. ALL CONNECTIONS ARE ACCOMPLISHED BY A PRINTED CIRCUIT BOARD WHICH IS CHANGED ONE TERMINAL POSITION TO SWITCH THE INPUT FROM 115 VOLT TO 230 VOLT OPERATION.
 2. FOR ASSEMBLY DRAWING SEE 001-0180.



DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING—

APPLIED PRACTICES

SURFACES

✓

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

+

+

+

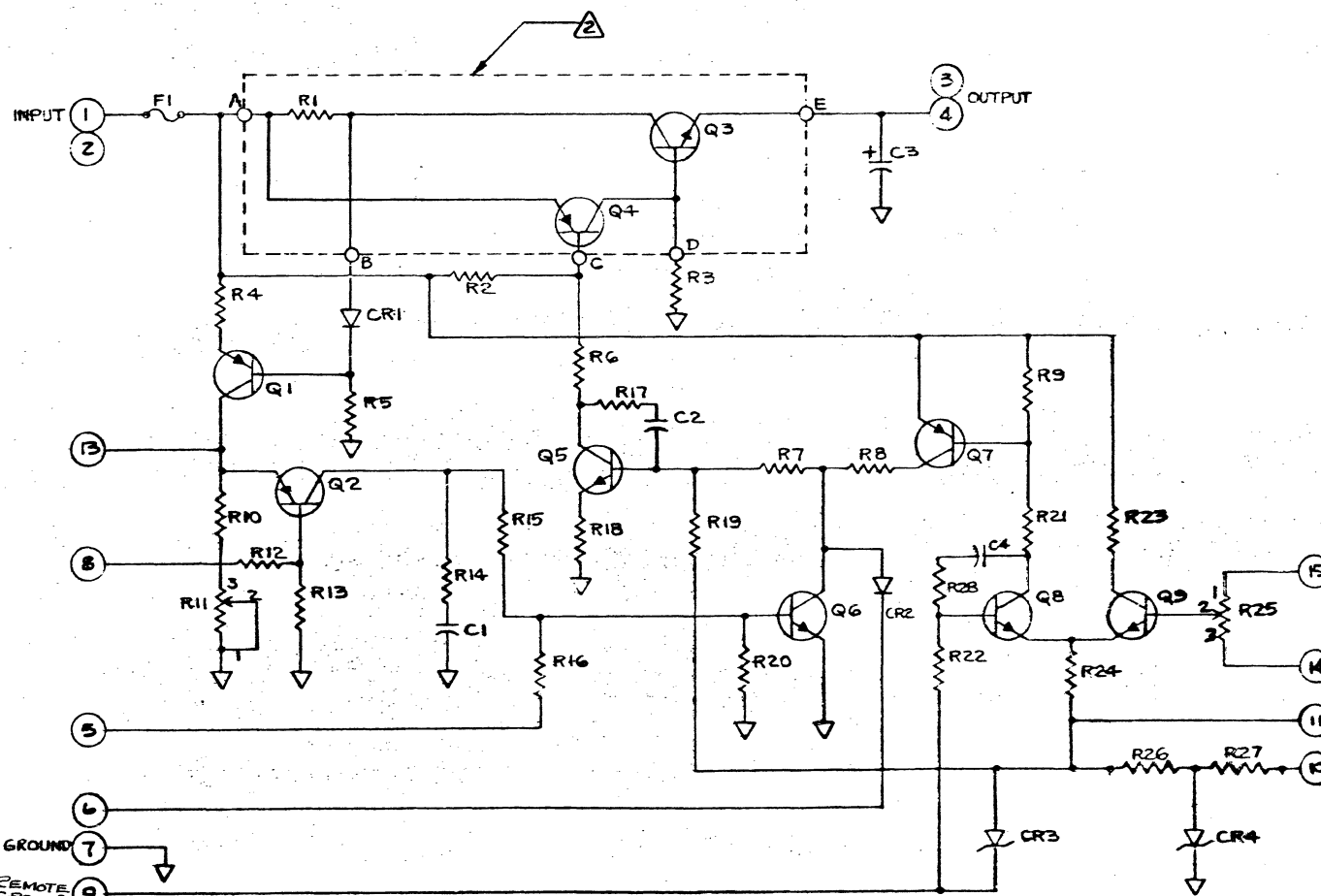
GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

TITLE SCHEMATIC DIAGRAM,
S.R.M.-PLUS 100-2000 SERIES
FNF GE-PAC 30 | FCF

DWG NO (24-002 R01 B08)

70B113065

CONT ON SHEET 3 SH NO 2



NOTES:
△-MOUNT INDICATED COMPONENTS ON HEAT SINK 249-0023.
1. FOR MODULE ASSEMBLY SEE DWG. 100-2000.

MADE BY

24 JUNE 69

APPROVAL

E.A. White

DES.

CHKR.

REV.

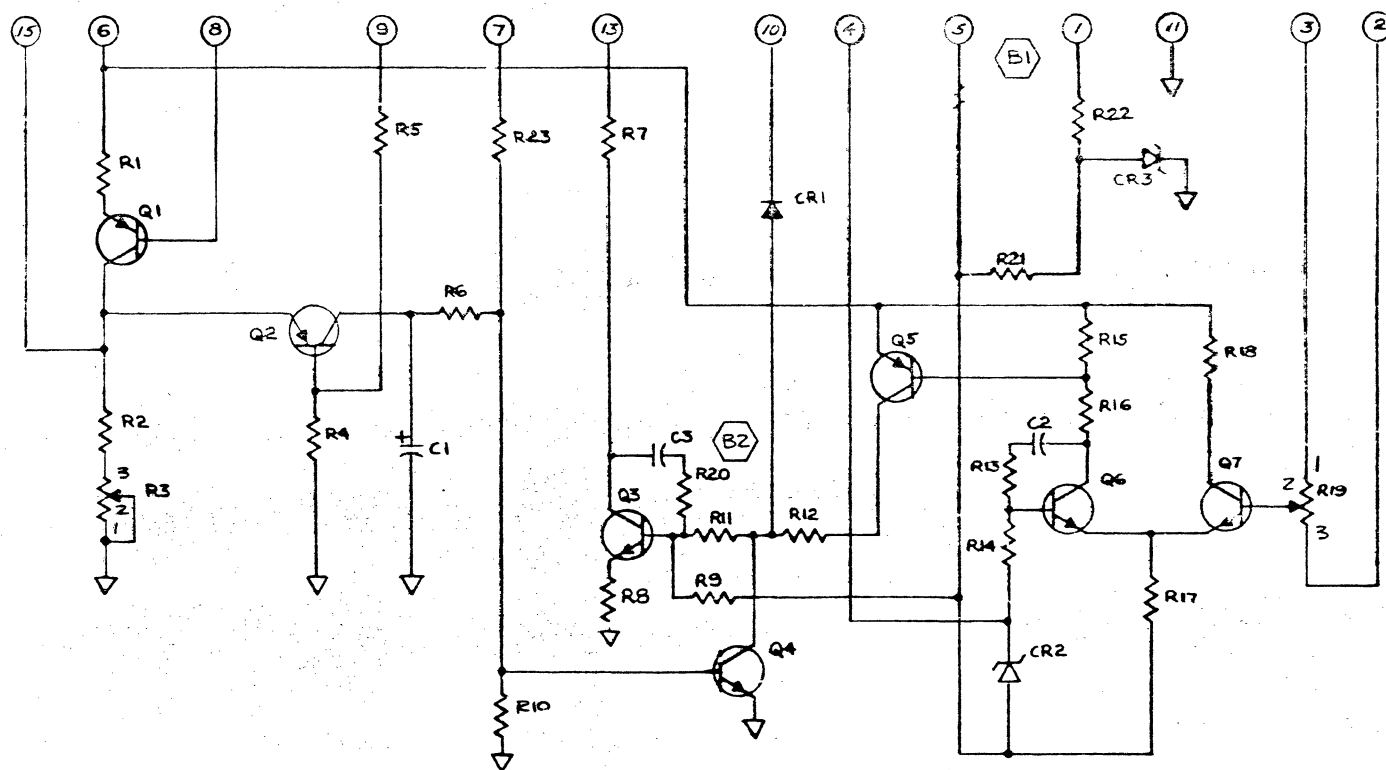
DWG. NO.

70B113065

CONT ON SHEET 3 SH NO. 2

ISSUED

JUL 18 1969



DIST.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING --

APPLIED PRACTICES

SURFACES

TOLERANCES ON MACHINED DIMENSIONS

FRACTIONS

DECIMALS

ANGLES

✓

+

+

+

GENERAL ELECTRIC
PROCESS COMPUTER
PHOENIX

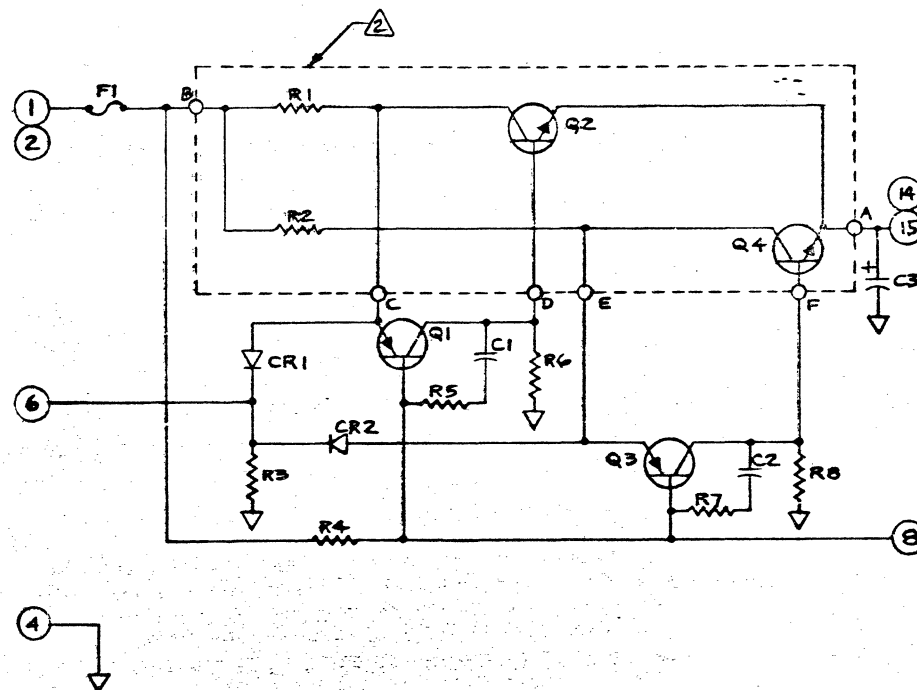
TITLE SCHEMATIC DIAGRAM,
P.T.M., PLUS 100-2800 SERIES
FMF GE-PAC 30 FCF

DWG. NO. (34-002-R01 B08)

70B113065

CONT. ON SHEET 6 SH. NO. 5

NOTES:
▲ MOUNT INDICATED COMPONENTS ON HEAT-SINK NO. 243-0024.
1. FOR MODULE ASSEMBLY SEE DWG. NO. 100-2800.



MADE BY

J. Howard 24 JUNE '69

ISSUED

JUL 18 1969

APPROVAL

E. G. White

June 30, 69

DES.

CHKR.

DR

REV.

C

DWG. NO. (34-002-R01 B08)

70B113065

CONT. ON SHEET 6 SH. NO. 5

DRAWING NUMBER CONVERSION TABLE

FS2	70B113011
FS3	70B113012
FS4	70B113013
FS5	70B113014
FS28	70B113000
FS29	70B113002
FS44	70B113007

19-001	70A110005
19-002	70A110007
19-003	70A110009
19-004	70A110010
19-005	70A110011
19-006	70A110012
19-007	70A110013
19-008	70A110014
19-012	70A110015
19-014	70A110016
19-015	70A110017
19-016	70A110022
19-017	70A110023
19-018	70A110001
19-019	70A110003

32-009-R02	70A110272	
32-010	70A110273	
32-010 F01	70A110274	
32-011 R01	70A110277	
32-012 R01	70A110278	
32-013 R01	70A110280	
32-014 R01	70A110282	
32-017 R03	70A104048	P3
32-017 F01 R05	70A104048	P5
32-017 F02	70A104048	P1
32-017 F03	70A110284	
32-017 F04	70A110285	
32-017 F05 R02	70A110286	
32-041 R01	70A110310	
32-043 R01	70A110379	
32-044 R02	70A110316	
32-061 R01	70A110335	
32-062	70A110049	
32-062 F01 R01	70A110336	
32-062 F02	70A110337	
32-063	70A110338	
32-068 R01	70A110345	
32-068 F01	70A110346	
32-074 R02	70A110352	
32-075 R05	70A110353	
32-076 R07	70A110354	
32-077 R10	70A110355	
32-087	70A110367	
32-087 F01	70A104048	P10
32-087 F02	70A110368	

DRAWING NUMBER CONVERSION TABLE
(CONT.)

35-001	70A110382 P1
35-002	70A110382 P2
35-003	70A110382 P3
35-008	70A110382 P9
35-009	70A110382 P10
35-014	70A110382 P14
35-016	70A110382 P16
35-020	70A110382 P20
35-022	70A110382 P22
35-024	70A110382 P24
35-027	70A110382 P27
35-036	70A110382 P39
35-041	70A110382 P45
35-053	70A110382 P54
35-054	70A110382 P58
35-055	70A110382 P59
35-056	70A110382 P60
35-059	70A110382 P62
35-060	70A110382 P63
35-063	70A110382 P66
35-064	70A110382 P67
35-082	70A110382 P73
35-083	70A110382 P74
35-092 R01	70A110382 P167
35-094 R02	70A110382 P84
35-096	70A110382 P85
35-096 F01	70A110382 P86
35-115	70A110382 P106
35-116	70A110382 P107
35-117	70A110382 P108
35-118	70A110382 P109
35-119	70A110382 P110
35-126	70A110382 P120

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