

FIELD MAINTENANCE PRINT SET

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FPI I-AU
Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00188

REVISIONS	REV.		USED ON OPTION/MODEL		DRN.	DATE	digital TITLE: FLOATING POINT OPTION UPGRADE KIT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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NOTES:

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- Diagram illustrating the assembly of a computer system, showing the main chassis and various modules.
- The main chassis is shown with slots labeled A, B, C, D, E, and F. The assembly includes the following components and connections:
- W9042 EXTENDER BD ASSY**: A separate board assembly shown in the bottom left, labeled "SEE NOTE 3".
 - H8821**: A module connected to the chassis via a ribbon cable.
 - 5412416**: A module connected to the chassis via a ribbon cable.
 - MT859**: A module connected to the chassis via a ribbon cable, labeled "SEE NOTE 1".
 - RED STRIPE 7012314-2D**: A component connected to the chassis via a ribbon cable, labeled "SEE NOTE 1".
 - RED STRIPE 7011411-1D**: A component connected to the chassis via a ribbon cable, labeled "SEE NOTE 1".
 - Slots**: The chassis has three slots labeled "SLOT #1 (M8266)", "SLOT #2 (M8265)", and "SLOT #3 (M8267)".
 - Modules**: The chassis also contains modules labeled M8266, M8265, and M8267.

REF	MODULE UTILIZATION	D-MU-FPII-AU-1	5
1	POWER DISTRIBUTION BOARD	D-C5-54108-4-1A-1	4
1	+5V REGULATOR	D-LIA H7441- ϕ - ϕ	3
1	1134A PROCESSOR	A-PL-KD11-EA- ϕ	2
1	FLOATING POINT OPTION	D-LIA-FPII-A- ϕ	1

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES	ALL OF	NOMINAL DIMENSION RANGE INCHES	MM
SURFACE	FINISH	0.2 0.1 0.1 0.1 0.2 0.2	0.008 0.008 0.008 0.008 0.008 0.008
QUALITY IN	CHECK ONE:		
	MEDIUM	0.008 0.008 0.008 0.008 0.008 0.008	0.008 0.008 0.008 0.008 0.008 0.008
	MICROFINISH		
	PREFINISHED	0.012 0.012 0.012 0.012 0.012 0.012	0.012 0.012 0.012 0.012 0.012 0.012
DRN. <i>0.012</i>		FIRST USED ON	<i>digital</i>
CMT. <i>0.012</i>		TITLE	FLOATING POINT
ENG. <i>0.012</i>		OPTION UPGRADE KIT	
PROJ. <i>0.012</i>			
REV. <i>0.012</i>			
NOT TO SCALE			
SCALE 1/8" = 1"		SIZE 1/8" x 1/8"	NUMBER 1
DATE 1/1/78		DATE 1/1/78	REV.

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FLOATING POINT

FP11-AU FLOATING POINT OPTION UPGRADE KIT POWER SUPPLY COMPONENTS INSTALLATION PROCEDURE

THE FP11-AU FLOATING POINT OPTION UPGRADE KIT PROVIDES AN H7441 REGULATOR AND 5410864-YA POWER DISTRIBUTION BOARD IN ORDER TO INCREASE THE AMOUNT OF CURRENT AT +5VDC AVAILABLE FROM THE 10.5" BOX. THE FOLLOWING IS AN INSTALLATION PROCEDURE FOR THESE COMPONENTS.

TOOLS REQUIRED

LARGE PHILLIPS SCREWDRIVER
LARGE STANDARD SCREWDRIVER
MEDIUM PHILLIPS SCREWDRIVER
90° OFFSET PHILLIPS SCREWDRIVER

DEFINITIONS

BOX BA11-K BOX
CHASSIS MODULE ENCLOSURE PORTION OF A BA11-K BOX
P/S H765 POWER SUPPLY ASSEMBLY PORTION OF A BA11-K BOX
TOP OF BOX MODULE HANDLES SIDE OF A BA11-K BOX
BOTTOM OF BOX BACKPLANE PINS SIDE OF A BA11-K BOX
SIDE OF BOX WHERE CHASSIS SLIDES MOUNT TO A BA11-K BOX
BACK OF P/S SURFACE OF P/S WHERE THE LINE CORD ENTERS
FRONT OF P/S SURFACE OF P/S WHERE THE OUTPUT MATE-N-LOKS ARE LOCATED

WARNING: TURN OFF COMPUTER SYSTEM AND DISCONNECT IT FROM POWER LINE BEFORE ATTEMPTING TO WORK ON THE SYSTEM.

1. EXTEND THE BOX OUT OF THE CABINET TO THE LIMITS OF THE CHASSIS SLIDES
2. REMOVE THE CHASSIS TOP COVER TO GAIN ACCESS TO THE P/S TOP COVER.
3. LOOSEN THE CLAMP HOLDING THE CABLES THAT RUN ACROSS THE P/S AND THEN REMOVE THE P/S TOP COVER.
4. ROTATE THE BOX 90° SO THAT THE BOTTOM OF THE BOX NOW FACES AWAY FROM THE CABINET.
5. REMOVE THE CHASSIS BOTTOM COVER. THIS WILL REVEAL THE POWER DISTRIBUTION BOARD LOCATED OVER THE FAN AND BETWEEN THE P/S AND BACKPLANES.

WARNING: DO NOT REMOVE THE TWO HINGE SCREWS (ONE ON EACH SIDE OF THE BOX LOCATED NEAR TOP OF THE BOX AT JUNCTION OF THE P/S AND CHASSIS).

6. REMOVE FOUR FLATHEAD SCREWS (NO WASHERS) LOCATED (TWO ON EACH SIDE OF THE BOX) APPROXIMATELY FOUR INCHES FROM THE BOTTOM EDGE OF THE BOX AT THE JUNCTION OF THE P/S AND CHASSIS. THIS WILL ALLOW THE P/S TO SWING AWAY FROM THE CHASSIS.
7. LOCATE THE H744 +5VDC REGULATOR THAT POWERS THE CPU BACKPLANE. THIS REGULATOR (SHOWN AS REGULATOR #2 ON THE E-UA-11/34-B-D DRAWING) IS THE SECOND ONE FROM THE RIGHT WHEN FACING THE UPTURNED BOX FROM THE WIRE-WRAP SIDE OF THE BACKPLANE.

8. REMOVE THE TWO MOUNTING SCREWS (AND WASHERS) LOCATED JUST TO THE LEFT OF MATE-N-LOK CONNECTOR FOR THAT H744. THERE WILL BE A GREEN SAFETY GROUND WIRE UNDER ONE OF THEM. THE 90° OFFSET PHILLIPS SCREWDRIVER WILL BE NEEDED FOR THIS OPERATION.
9. REMOVE THE MATE-N-LOK FOR THE H744 AND THE ONE REMAINING HOLDING SCREW (AND WASHER) LOCATED ON THE BACK OF THE P/S TO THE LEFT OF THE H744 DECAL.
10. REMOVE THE H744 BY SLIDING IT OUT THROUGH THE TOP OF THE P/S (YOU MAY HAVE TO ROTATE THE BOX FOR THIS OPERATION).
11. REPLACE THE H744 WITH THE H7441 INCLUDED IN THE FP11-AU.
12. RETURN THE BOX TO THE POSITION OF STEP #3 IF NECESSARY.
13. REPLACE THE MOUNTING SCREWS, WASHERS, AND GREEN SAFETY GROUND WIRE THAT ARE COMMON TO THE H7441 REGULATOR, BUT DO NOT RECONNECT THE MATE-N-LOK.
14. REMOVE THE THREE REMAINING MATE-N-LOKS CONNECTING THE REGULATORS TO THE POWER DISTRIBUTION BOARD FLYING LEADS.
15. LOCATE THE BLACK GROUND WIRE SOLDERED TO THE POWER DISTRIBUTION BOARD NEAR J16. REMOVE THIS CONNECTION FROM THE P/S (NO WASHER) AND THE CHASSIS (WASHER).
16. REMOVE THE +5V AND GND FASTONS FROM THE POWER DISTRIBUTION BOARD THAT ARE LOCATED NEAR J14.
17. REMOVE THE SIX PIN MATE-N-LOK FROM THE POWER DISTRIBUTION BOARD AT J8.
18. LOCATE AND REMOVE THE FOUR FLATHEAD MOUNTING SCREWS (NO WASHERS) HOLDING THE POWER DISTRIBUTION BOARD TO THE CHASSIS. THEY ARE LOCATED (TWO ON EACH SIDE OF BOX) 2" UP FROM THE BOTTOM OF THE BOX NEAR THE JUNCTION OF THE P/S AND CHASSIS. THIS WILL ALLOW THE POWER DISTRIBUTION BOARD TO BE MOVED TO FACILITATE REMOVAL OF ALL BACKPLANE MATE-N-LOK CONNECTORS.
19. REMOVE ALL BACKPLANE MATE-N-LOK CONNECTORS.
20. REMOVE THE TWO REMAINING MATE-N-LOKS CONNECTING THE POWER DISTRIBUTION BOARD TO THE P/S.
21. REMOVE THE POWER DISTRIBUTION BOARD FROM THE CHASSIS.
22. REVERSE PROCEDURE (STEPS #21 TO #14, #6 TO #1) TO INSTALL THE NEW POWER DISTRIBUTION BOARD. CAUTION: SEE NOTE #1

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
REMOVE BURRS AND BREAK SHARP CORNERS	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
DO NOT SCALE DWG	(CHECK ONE)	OVER 0 TO 1.0	
MATERIAL	MEDIUM	OVER 1.0 TO 4.0	
FINISH	PREFERRED	OVER 4.0 TO 12.0	
		OVER 12.0 TO 40.0	
		OVER 40.0 TO 80.0	
		OVER 80.0 TO 160.0	
		OVER 160.0 TO 320.0	
		OVER 320.0 TO 640.0	
		OVER 640.0 TO 1280.0	
		OVER 1280.0 TO 2560.0	
		OVER 2560.0 TO 5120.0	
		OVER 5120.0 TO 10240.0	
		OVER 10240.0 TO 20480.0	
		OVER 20480.0 TO 40960.0	
		OVER 40960.0 TO 81920.0	
		OVER 81920.0 TO 163840.0	
		OVER 163840.0 TO 327680.0	
		OVER 327680.0 TO 655360.0	
		OVER 655360.0 TO 1310720.0	
		OVER 1310720.0 TO 2621440.0	
		OVER 2621440.0 TO 5242880.0	
		OVER 5242880.0 TO 10485760.0	
		OVER 10485760.0 TO 20971520.0	
		OVER 20971520.0 TO 41943040.0	
		OVER 41943040.0 TO 83886080.0	
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		OVER 167772160.0 TO 335544320.0	
		OVER 335544320.0 TO 671088640.0	
		OVER 671088640.0 TO 1342177280.0	
		OVER 1342177280.0 TO 2684354560.0	
		OVER 2684354560.0 TO 5368709120.0	
		OVER 5368709120.0 TO 10737418240.0	
		OVER 10737418240.0 TO 21474836480.0	
		OVER 21474836480.0 TO 42949672960.0	
		OVER 42949672960.0 TO 85899345920.0	
		OVER 85899345920.0 TO 171798691840.0	
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FIELD MAINTENANCE PRINT SET

FPII-A

Field Maintenance Print Set

PRINT SET ORDER NO.
MP00189

B-TC-FP11-A-4	FLOATING POINT OPTION (TC)
B-DD-FP11-A	FLOATING POINT OPTION
D-UA-FP11-A-Ø	FLOATING POINT OPTION
A-PL-FP11-A-Ø	FLOATING POINT OPTION (PL)
D-BD-FP11-A-1	BLOCK DIAGRAM
D-UA-M8267-Ø-Ø	FLOATING POINT OPTION
B-PL-M8267-Ø-Ø	FLOATING POINT OPTION (PL)
D-CS-M8267-Ø-1	FLOATING POINT OPTION (CS)
D-UA-H8821-Ø-Ø	BOARD INTERCONNECT 4Ø Pin
B-PL-H8821-Ø-Ø	BOARD INTERCONNECT 4Ø Pin (PL)
D-CS-H8821-Ø-1	BOARD INTERCONNECT 4Ø Pin (CS)
D-UA-5412416-Ø-Ø	BOARD INTERCONNECT 2Ø Pin
B-PL-5412416-Ø-Ø	BOARD INTERCONNECT 2Ø Pin (PL)
D-CS-5412416-Ø-1	BOARD INTERCONNECT 2Ø Pin (CS)
D-UA-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY.
B-PL-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY. (PL)
D-CS-W9Ø42-Ø-1	EXTENDER BOARD ASSY. (CS)
A-PL-FP11-A-3	SHIPPING LIST
D-FD-FP11-A-2	FLOW DIAGRAM

FP11-A

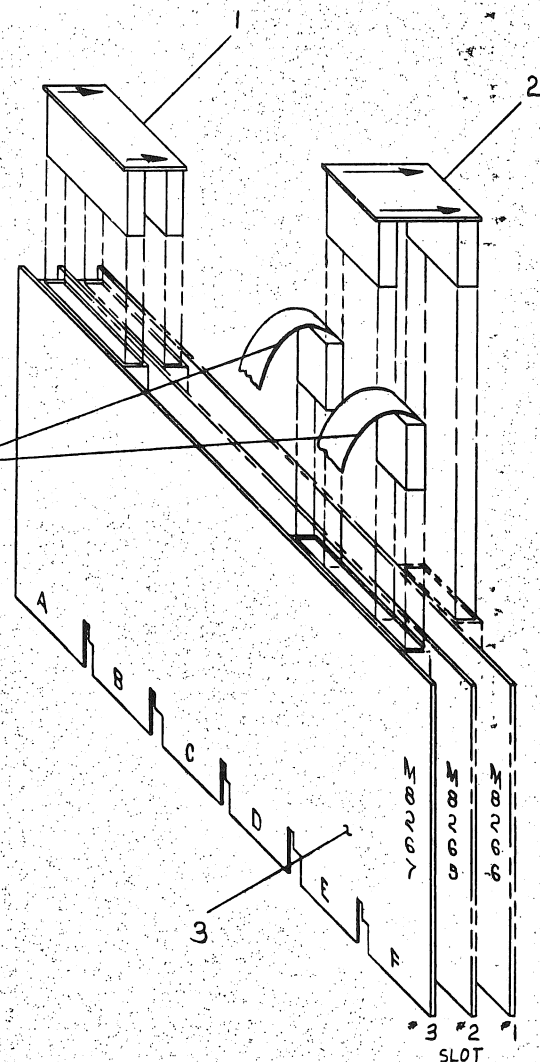
EN-01124-16-N675-(327

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NOTES:

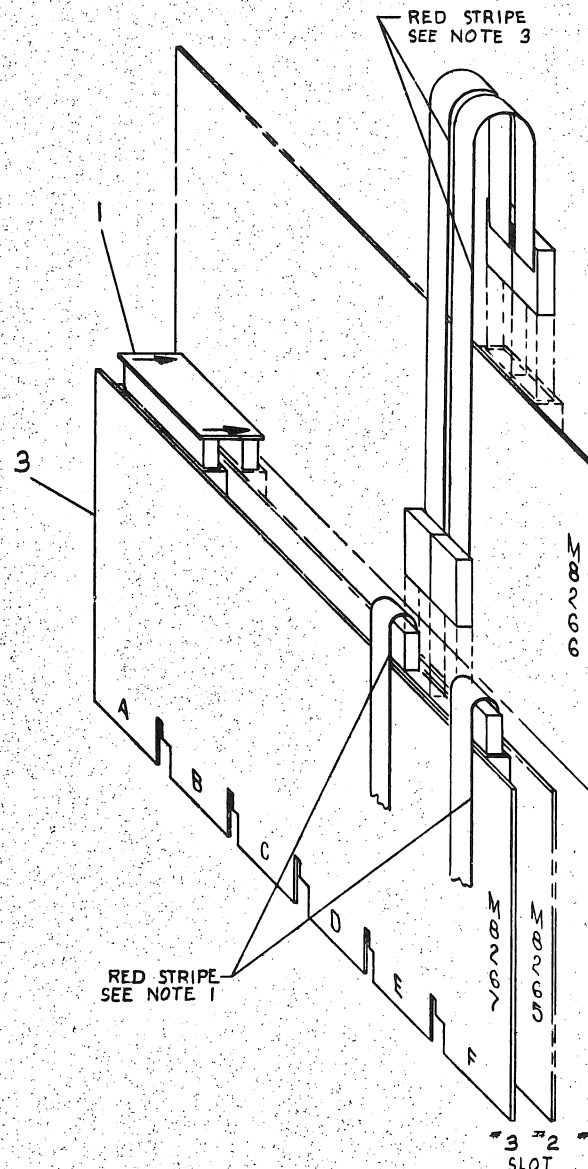
1. THESE CABLES #7011411-ID ARE PART OF KY11-LB OPTION AND MAY NOT BE PRESENT IN SOME CONFIGURATIONS.
2. THE W9042 EXTENDER BD. ASSY. IS STORED IN THE BACKPLANE AND IS USED FOR SOME MAINTENANCE OPERATIONS.
3. THESE CABLES ARE INSTALLED DURING MAINTENANCE ONLY, AND ARE CLIPPED TO THE W9042 FOR STORAGE. THESE CABLES #7011411-ID ARE PART OF W9042.
4. MODULES MB265 & MB266 ARE PART OF KD11-EA & SHOWN FOR REF ONLY.

RED STRIPE
SEE NOTE 1



CONFIGURATION "A"

RED STRIPE
SEE NOTE 3



CONFIGURATION "B"

1	EXTENDER BD. ASSY.	D-UA-W9042-0-0	4
1	FLOATING POINT (FPII-A)	D-UA-M3267-0-0	3
1	BOARD, INTERCONN 20 PIN	D-UA-5412416-0-0	2
1	BOARD, INTERCONN 40 PIN	D-UA-H8821-0-0	1

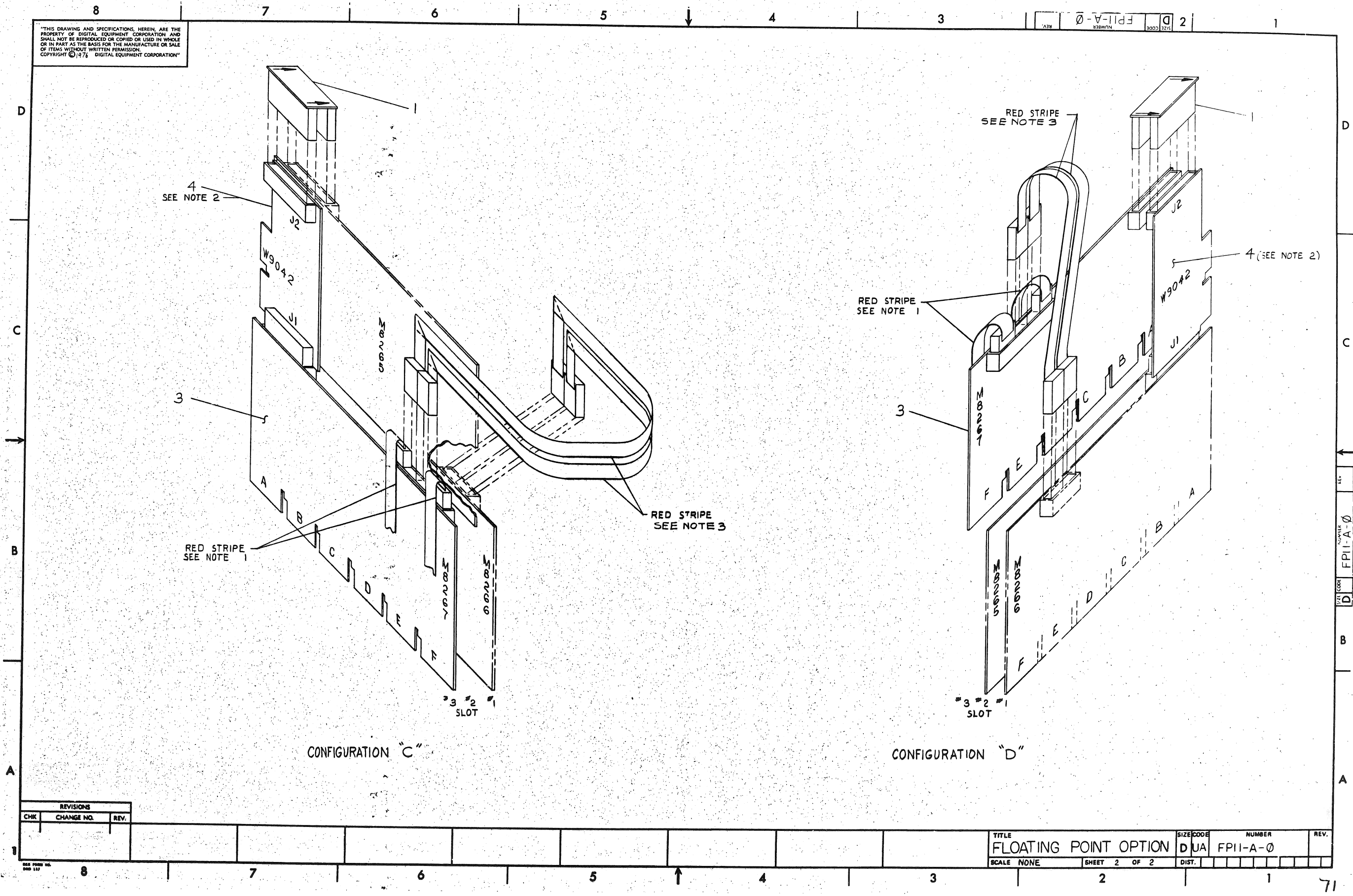
DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY	IN	OVER 0.2	OVER 0.2
		OVER 0.2	OVER 0.2
MICRONINCHES		±.008	±.008
MICRONINCHES		±.012	±.012
MICRONINCHES		±.016	±.016
MICRONINCHES		±.020	±.020
MICRONINCHES		±.024	±.024
MICRONINCHES		±.028	±.028
MICRONINCHES		±.032	±.032
MICRONINCHES		±.036	±.036
MICRONINCHES		±.040	±.040
MICRONINCHES		±.044	±.044
MICRONINCHES		±.048	±.048
MICRONINCHES		±.052	±.052
MICRONINCHES		±.056	±.056
MICRONINCHES		±.060	±.060
MICRONINCHES		±.064	±.064
MICRONINCHES		±.068	±.068
MICRONINCHES		±.072	±.072
MICRONINCHES		±.076	±.076
MICRONINCHES		±.080	±.080
MICRONINCHES		±.084	±.084
MICRONINCHES		±.088	±.088
MICRONINCHES		±.092	±.092
MICRONINCHES		±.096	±.096
MICRONINCHES		±.100	±.100
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TITLE
FLOATING POINT
OPTION

SIZE CODE
D UA FPII-A-0

SHEET 1 OF 2

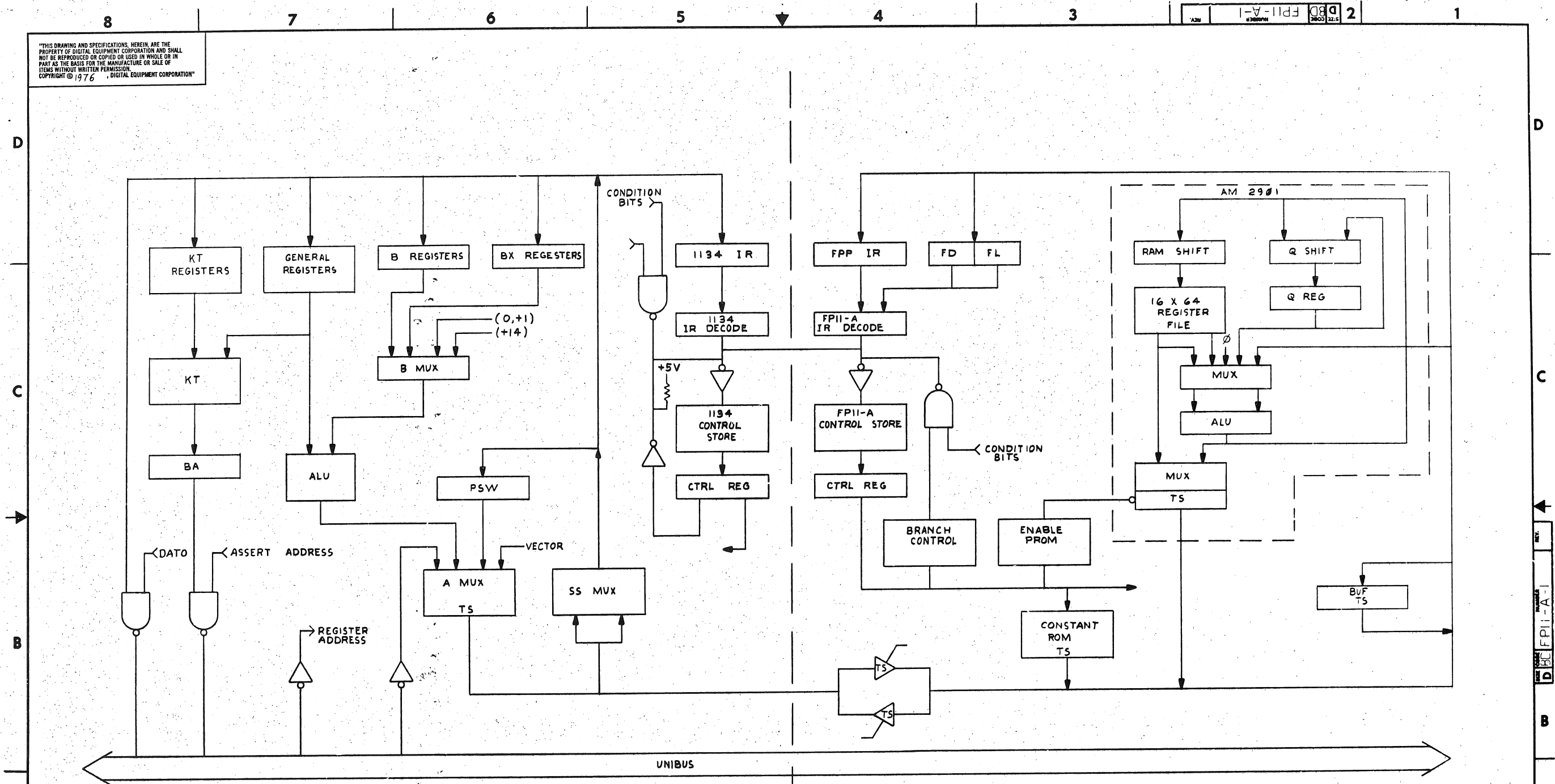
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REVISIONS		
CHK	CHANGE NO.	REV.
1		

TITLE FLOATING POINT OPTION		SIZE/COOE DUA	NUMBER FPII-A-0	REV.
SCALE NONE		SHEET 2 OF 2	DIST.	

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1134A PROCESSOR

FPII-A FLOATING POINT OPTION

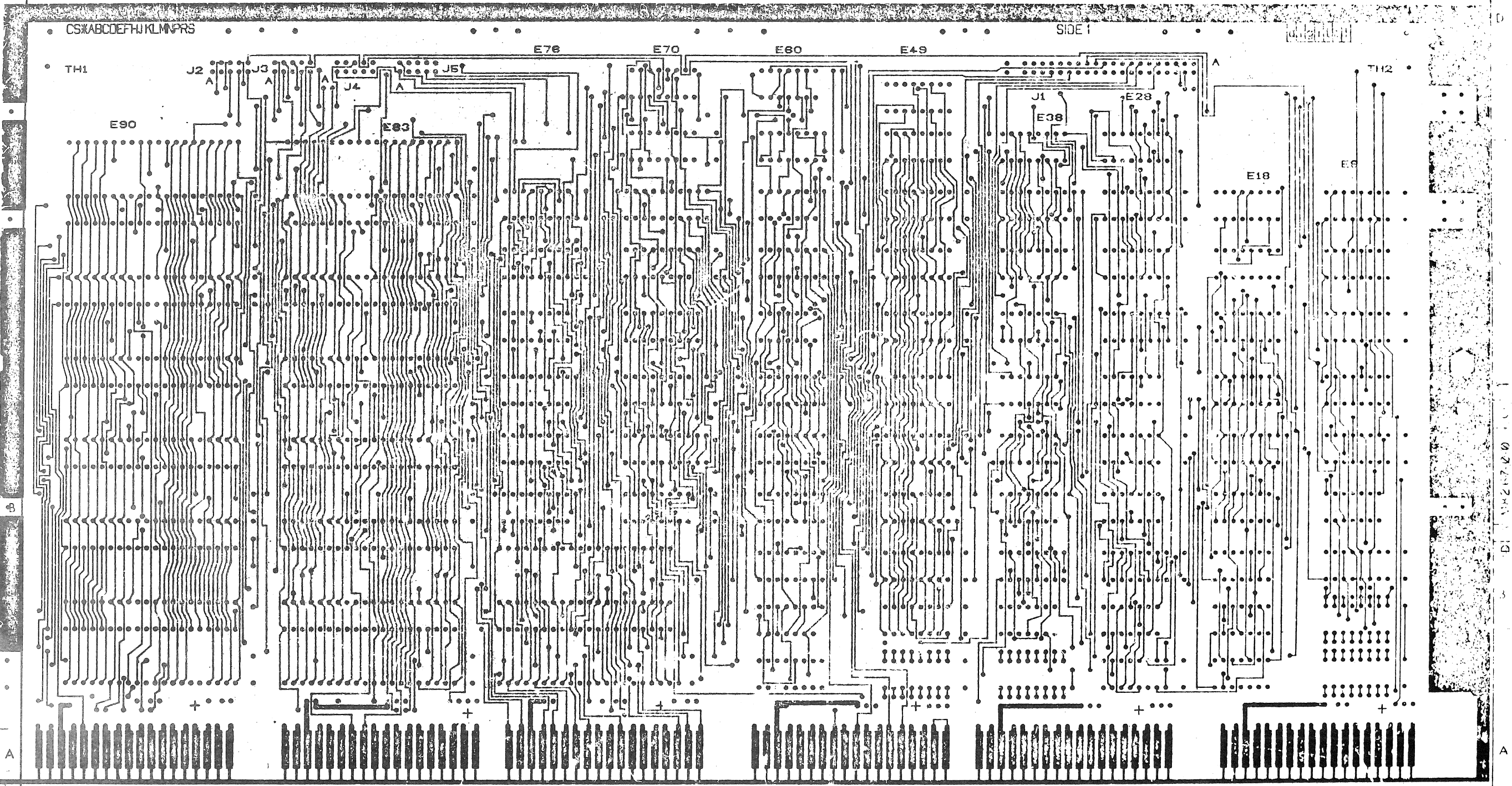
DRN. 8-000000	REV. 1	FIRST USE ON	1134A 000000
CHK'D 8-000000	REV. 1	TITLE	1134 FLOATING POINT PROCESSOR FPII-A
ENG. 8-000000	REV. 1	SIZE	8-000000
PROJ. ENG. 8-000000	REV. 1	CODE	D BD
PROB. 8-000000	REV. 1	NUMBER	FPII-A-1
NEXT HIGHER ASSY.		REV.	
8-DD-FPII-A			
SCALE 1 OF 1			
SHEET 1 OF 1			



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L1

LAYER 1



REVISIONS													TITLE		SIZE/DATE		NUMBER		REV.
CHK	CHANGE NO	REV											11/34 FLOATING		D 1/1		M8267-00		
													PT. OPTION						
													SCALE 2 1/4"		SHEET 2 OF 3				

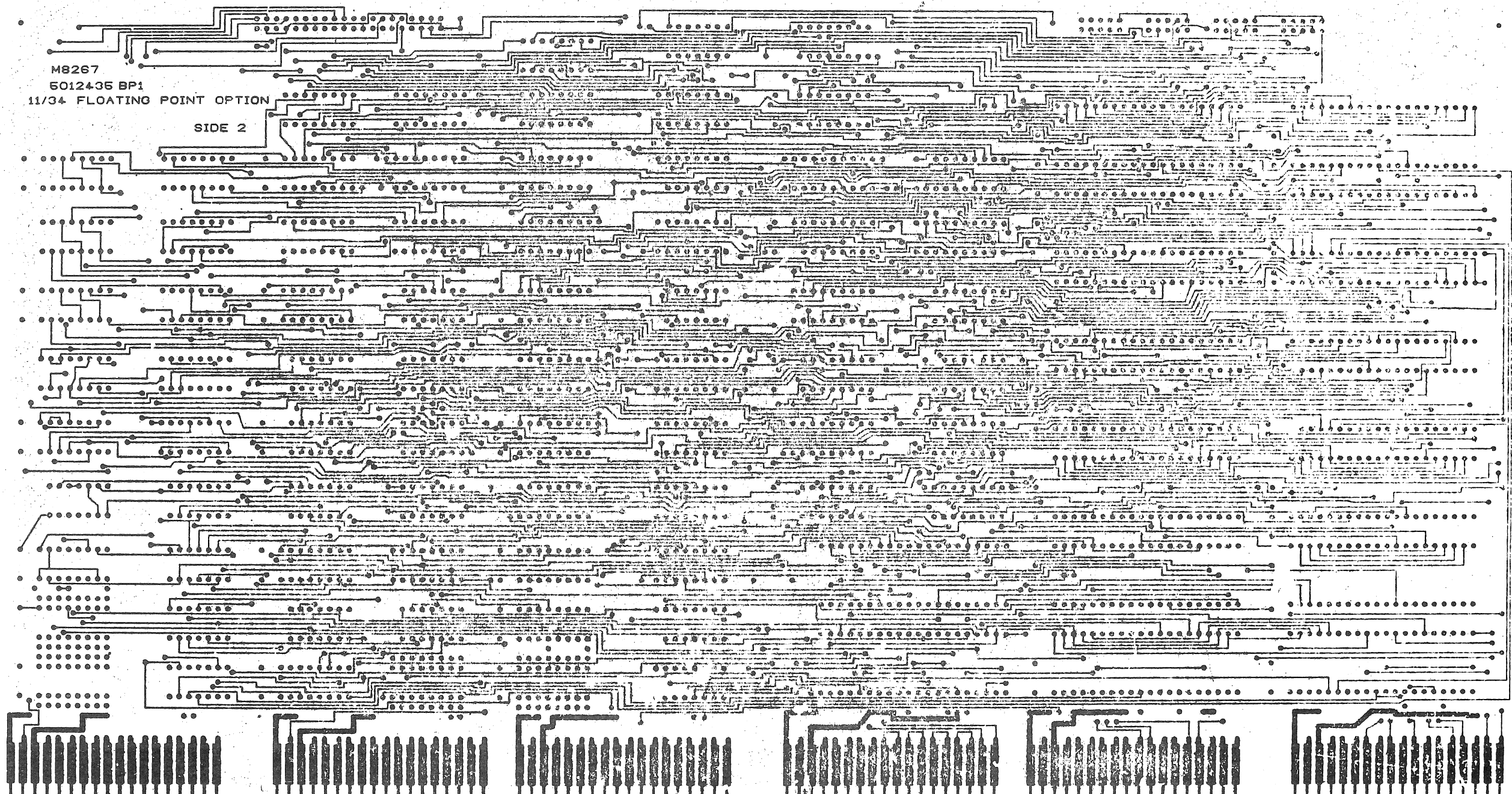
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HA 834AJ

L4

M8267
6012436 BP1
11/34 FLOATING POINT OPTION

SIDE 2



REVISIONS		
CHK	CHANGE NO.	REV.

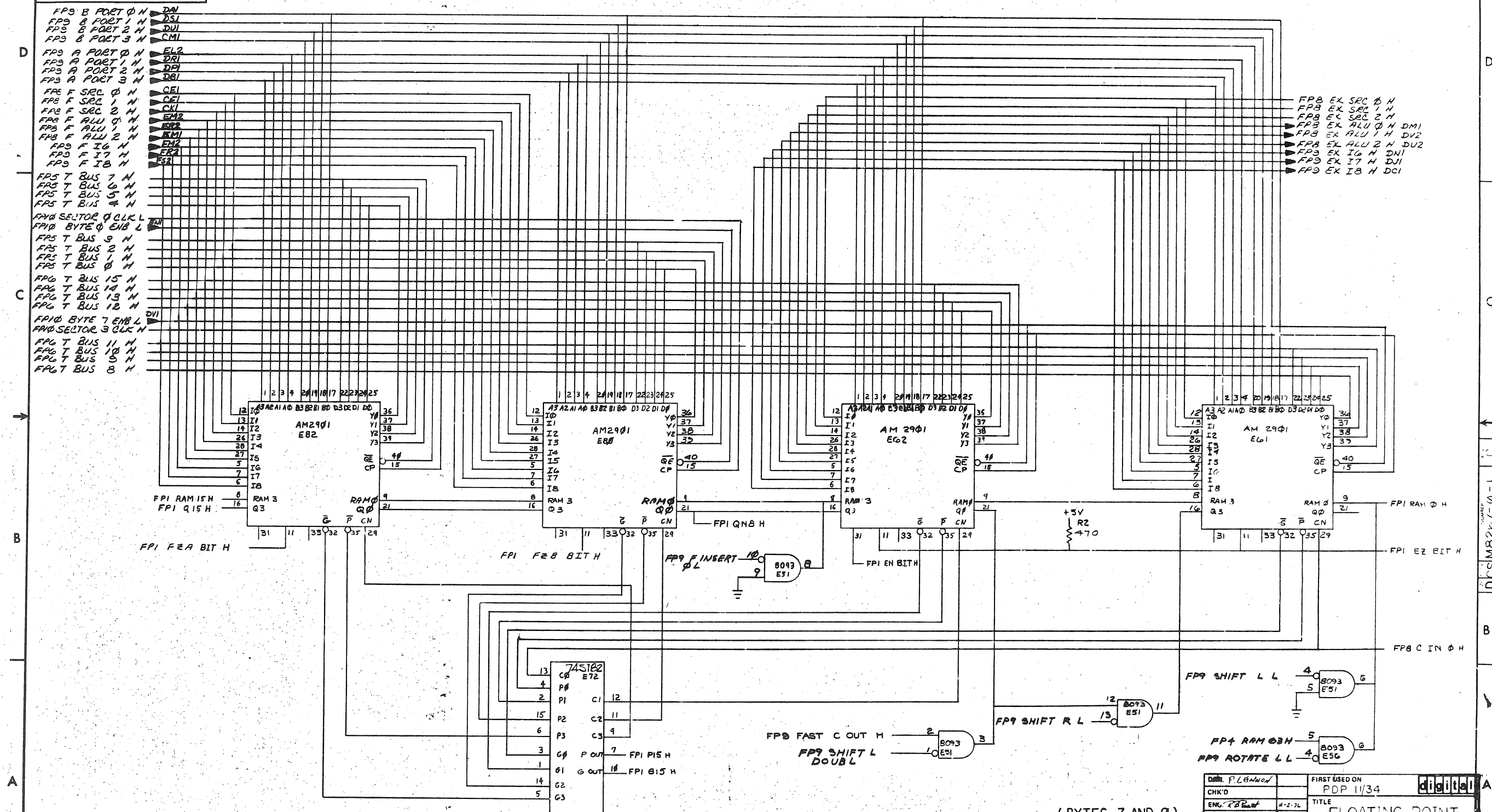
TITLE 11/34 FLOATING PT. OPTION		SIZE CODE DUA	NUMBER M8267-0-0	REV. C
SCALE 2/1	SHEET 3 OF 3	DIST		

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:			
MADE BY D. J. SIREEN DATE 12 JULY 76		CHECKED F. SEIDMAN DATE 18 AUG 76		SECTION		M8267-Ø-Ø													
ENG <i>m. Sullivan</i> DATE 7/18/77		PROD R. B. KING DATE 15 JUL 77		ISSUED SECTION															
ITEM NO.		DRAWING NO.		PART NO.			DESCRIPTION											REF DESIGNATION	
1	D-MD-5012435-0-0	5012435	ETCHED BOARD		1													C30 thru C35	
2		1005306	CAPACITOR, 6.8 uf, 35V, 10% TANT		6													C1 thru C29	
3		1012784	CAPACITOR, .047 uf 50V, CER		29													J1	
4		1213506-01	RT.ANGLE HEADER 40 POS.		1													J2 thru J5 (ONE CONNECTOR)	
5		1213506-02	RT.ANGLE HEADER 52 POS.		1														
6																			
7		1300271	RESISTOR, 220, 1/4W, 5%		1													R1	
8		1300295	RESISTOR, 330, 1/4W, 5%		2													R7, R8	
9		1300316	RESISTOR, 470, 1/4W, 5%		5													R2, R3, R9, R10, R4	
10		1300229	RESISTOR, 100, 1/4W, 5%		1													R11	
11		1301401	RESISTOR, 750, 1/4W, 5%		1													R6	
12		1910533	I.C. DEC 74SØ3		4													E11, E20, E23 E32	
13		1910535	I.C. DEC 74SØ5		1													E33	
14		1910532	I.C. DEC 74SØØ		2													E22, E60	
15		1910534	I.C. DEC 74SØ4		2													E35, E34	
16		1910536	I.C. DEC 74S1Ø		1													E30	
17		1910539	I.C. DEC 74S2Ø		1													E10	
18		1910544	I.C. DEC 74S74		1													E13	
19		1910547	I.C. DEC 74S153		2													E59, E69	
20		1910548	I.C. DEC 74S157		1													E70	
21		1910550	I.C. DEC 74S174		9													E27, E31, E28, E49, E52, E53, E57, E65, E67	
ECO. NO.																			
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						SHEET 1 OF 3		INSERTION PARTS LIST DATA BASE REV											

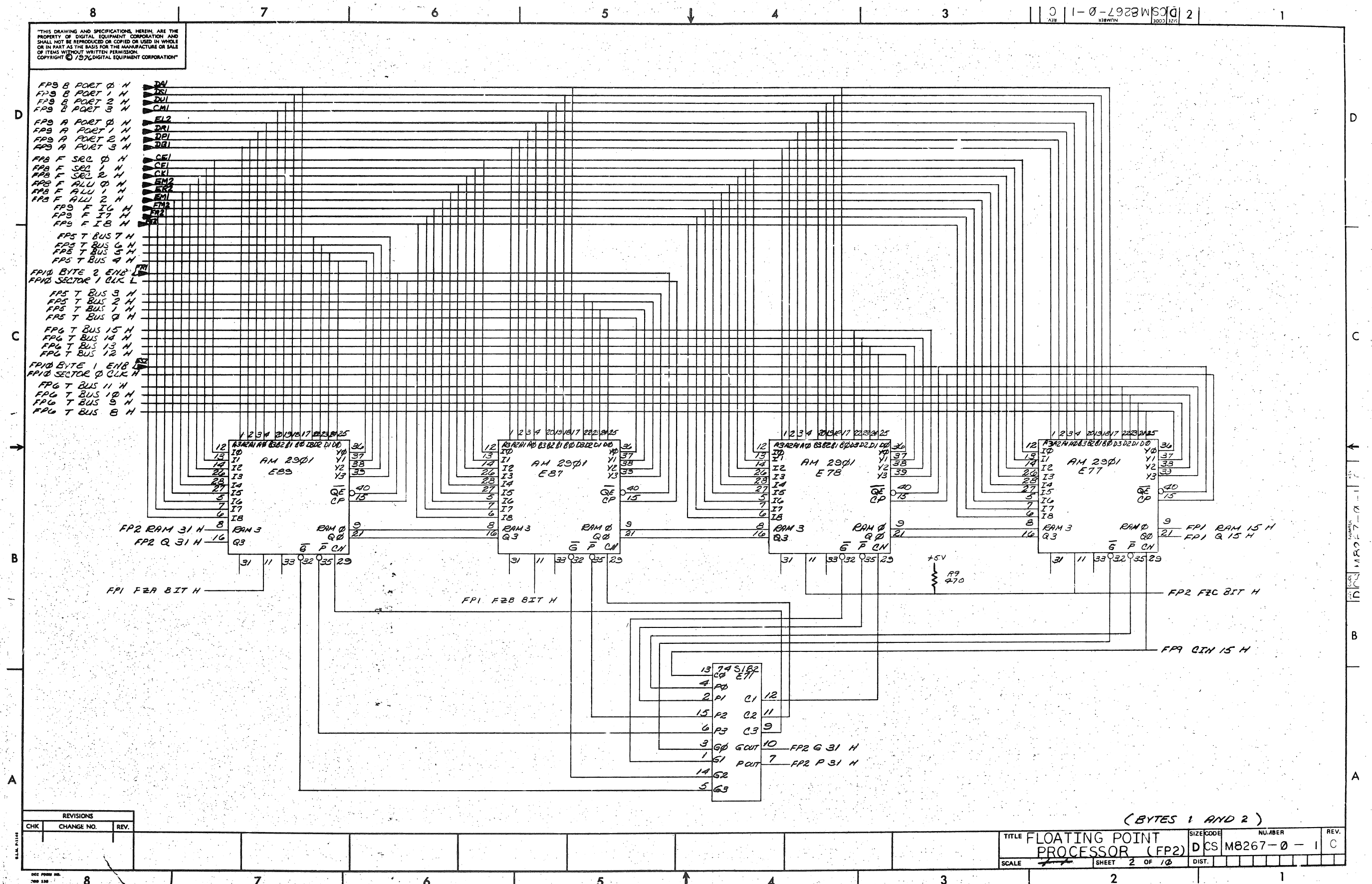
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MADE BY D. J. SIREEN DATE 12 JULY 76		CHECKED F. SEIDMAN DATE 18 AUG 76		SECTION													
ENG <i>m Sullivan</i> DATE 7/18/77		PROD R. B. KING DATE 15 Jul 77		ISSUED SECTION													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8267-0-0													
22		1910837	I.C. DEC 8093	3												E51 E56,E58	
23		1910957	I.C. DEC 74S175	2												E18,E26	
24		1911527	I.C. DEC 8097	6												E5 thru E9,E16	
25		1912097	I.C. DEC 74S182	6												E50,E63,E71 thru E74	
26		1912388	I.C. DEC 74S02	1												E24	
27		1912746	I.C. DEC 74S37	1												E12	
28		1911330	I.C. DEC 74173	4												E3,E14,E15,E25	
29		1913245	I.C. DEC AM 2901	16												E61 E62,E77 thru E90	
30		1911637	I.C. DEC 74132	1												E4	
31		1212385	40 PIN SOCKET	16												E61,E62 E77 thru E90	
32		1000015	CAPACITOR, 82 pf, 5%	1												C36	
33		7417214	HANDLE, MODIFIED	1													
34			I.C. SPARES	4												E1,E2,E29,E39	
35		9000024-01	EYELET	9													
36		23157A1	I.C. DEC PROM 32 x 8 T.S.	1												E17	
37		23153A1	I.C. DEC PROM 32 x 8 T.S.	1												E19	
38		23154A1	I.C. DEC PROM 32 x 8 T.S.	1												E21	
39		23155A1	I.C. DEC PROM 32 x 8 T.S.	1												E54	
40		23158A1	I.C. DEC PROM 32 x 8 T.S.	1												E55	
41		23156A1	I.C. DEC PROM 32 x 8 T.S.	1												E76	
42		23014F1	I.C. DEC PROM 1K x 4 O.C.	1												E64	
ECO. NO.																	
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						SHEET 2 OF 3		INSERTION PARTS LIST DATA BASE REV									

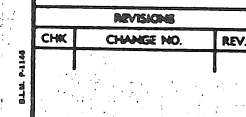
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ENG DATE		M. Sullivan 7/18/77		PROD DATE		R.B. KING 15 JUL 77		ISSUED SECTION															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8267-0-0													REF DESIGNATION						
43		23015F1	I.C. DEC PROM 1K x 4 O.C.	1													E66						
44		23435A9	I.C. DEC PROM 512 x 4 T.S.	1													E45						
45		23436A9	I.C. DEC PROM 512 x 4 T.S.	1													E44						
46		23437A9	I.C. DEC PROM 512 x 4 T.S.	1													E43						
47		23438A9	I.C. DEC PROM 512 x 4 T.S.	1													E38						
48		23439A9	I.C. DEC PROM 512 x 4 T.S.	1													E42						
49		23440A9	I.C. DEC PROM 512 x 4 T.S.	1													E41						
50		23441A9	I.C. DEC PROM 512 x 4 T.S.	1													E40						
51		23442A9	I.C. DEC PROM 512 x 4 T.S.	1													E37						
52		23443A9	I.C. DEC PROM 512 x 4 T.S.	1													E36						
53		23444A9	I.C. DEC PROM 512 x 4 T.S.	1													E48						
54		23445A9	I.C. DEC PROM 512 x 4 T.S.	1													E47						
55		23446A9	I.C. DEC PROM 512 x 4 T.S.	1													E46						
56		23010B1	I.C. DEC PROM 256 x 8 T.S.	1													E75						
57		23011B1	I.C. DEC PROM 256 x 8 T.S.	1													E68						
58		1300365	RESISTOR, 1K, 1/4W, 5%	1													R5						
E.C.O. NO.																							
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												D-UA-M8267-0-0				B		PL		M8267-0-0		C	
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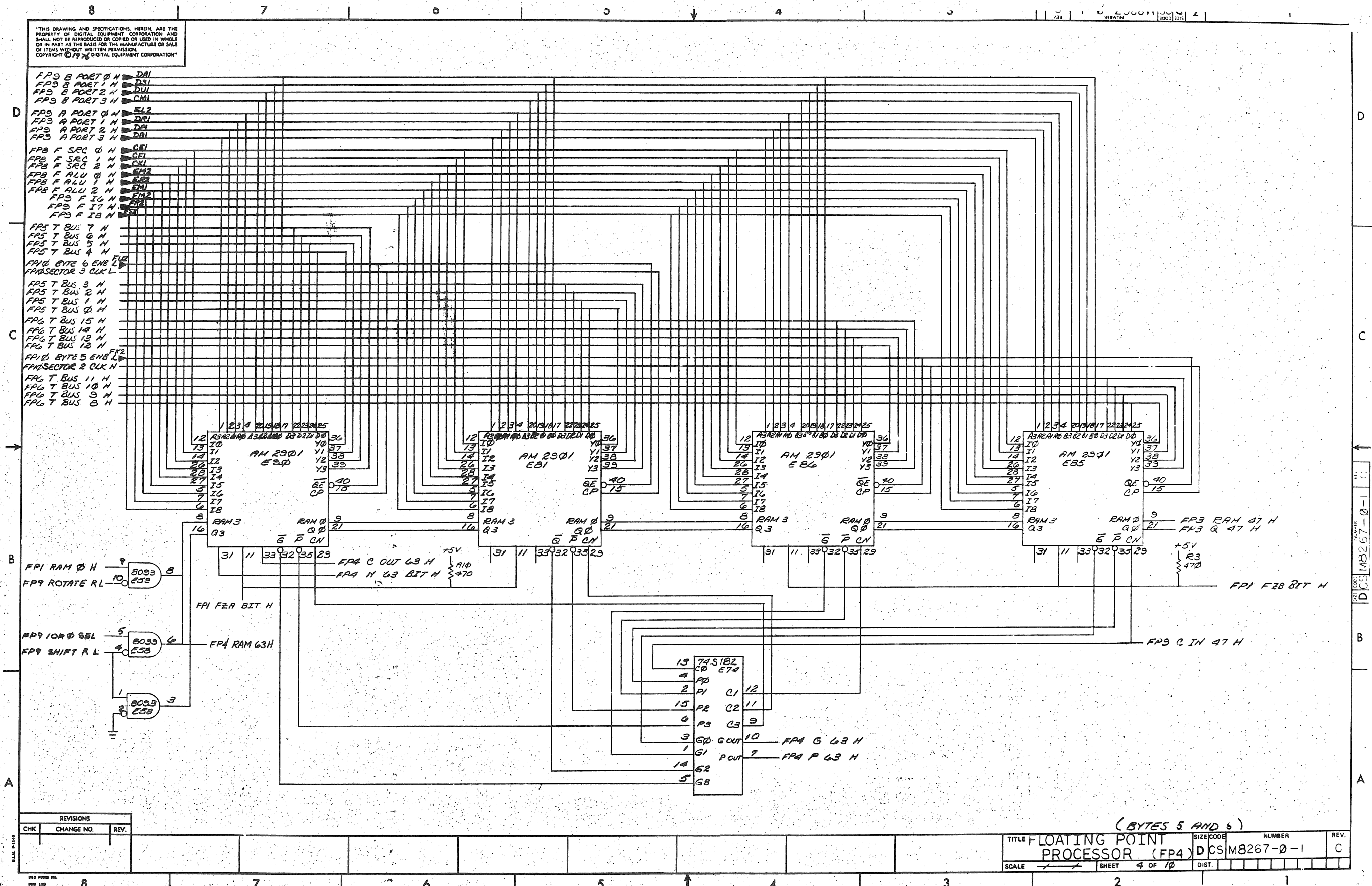
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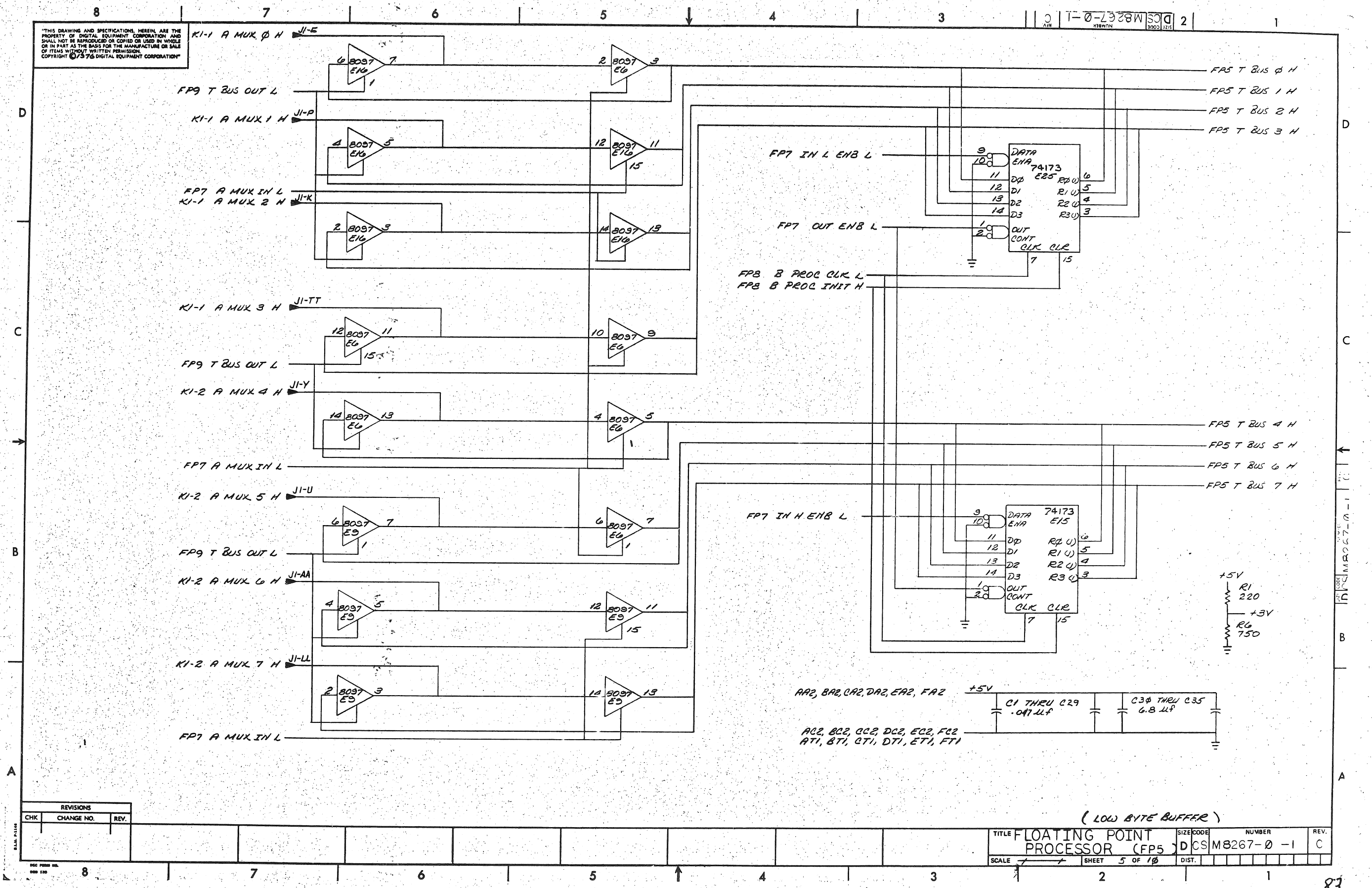
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005	M8267-00005	E
006	M8267-00006	F
007	M8267-00007	G
008	M8267-00008	H
009	M8267-00009	I
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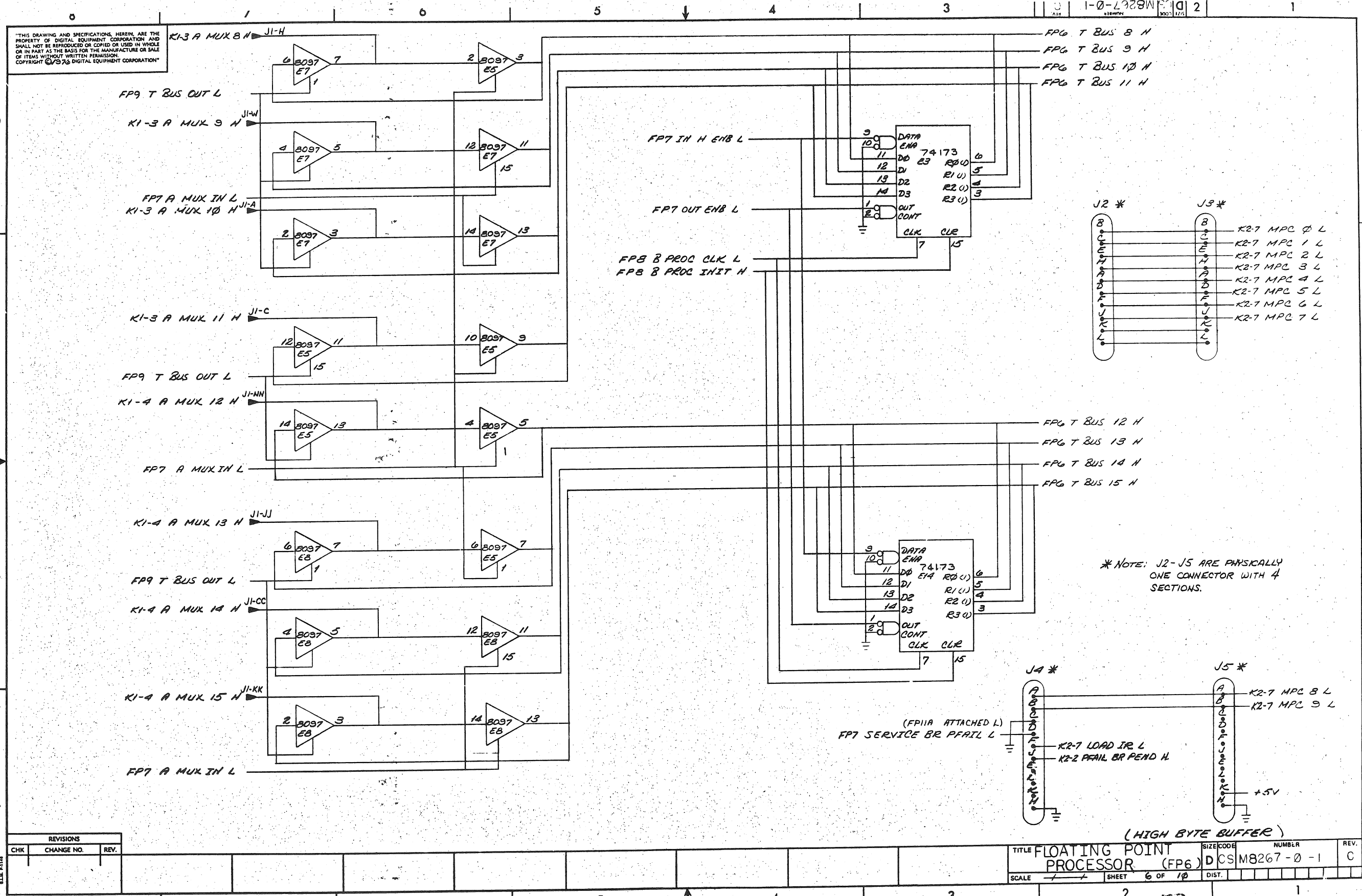
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
FLOATING POINT PROCESSOR (FP5)		D	C	M8267-0	-1	C
SCALE	+	SHEET	5 OF 10	DIST.		

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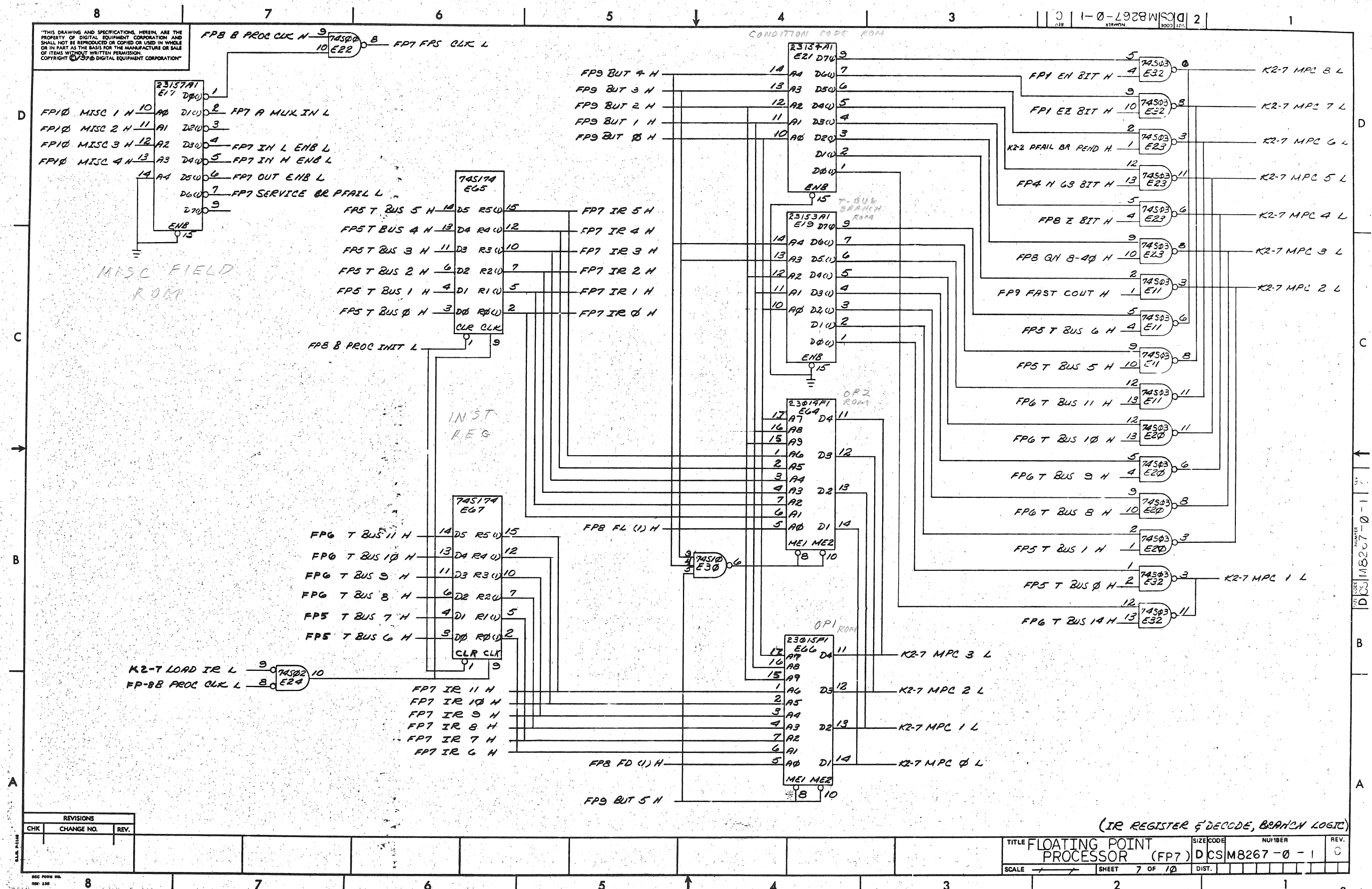


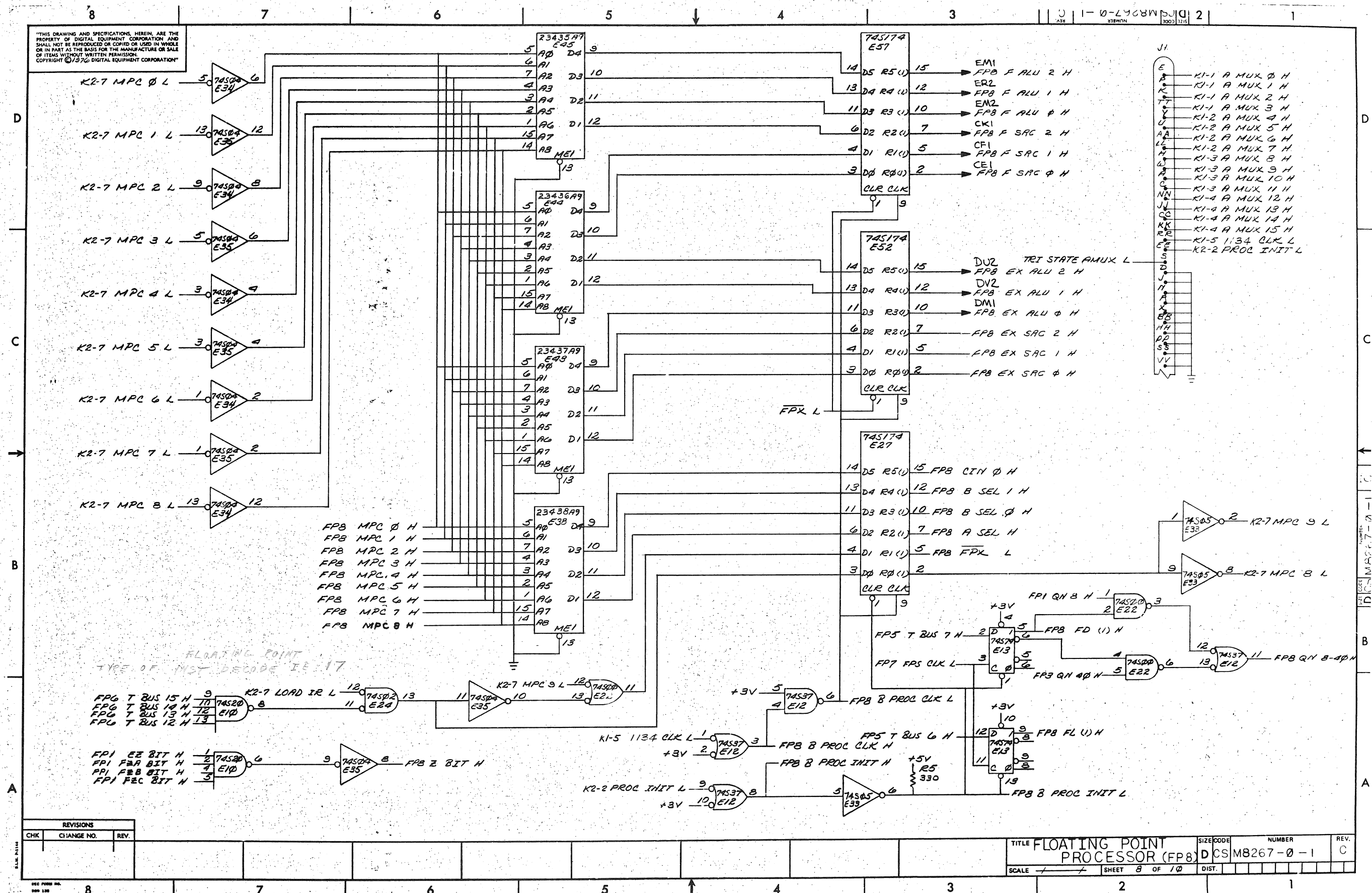
* NOTE: J2-J5 ARE PHYSICALLY ONE CONNECTOR WITH 4 SECTIONS.

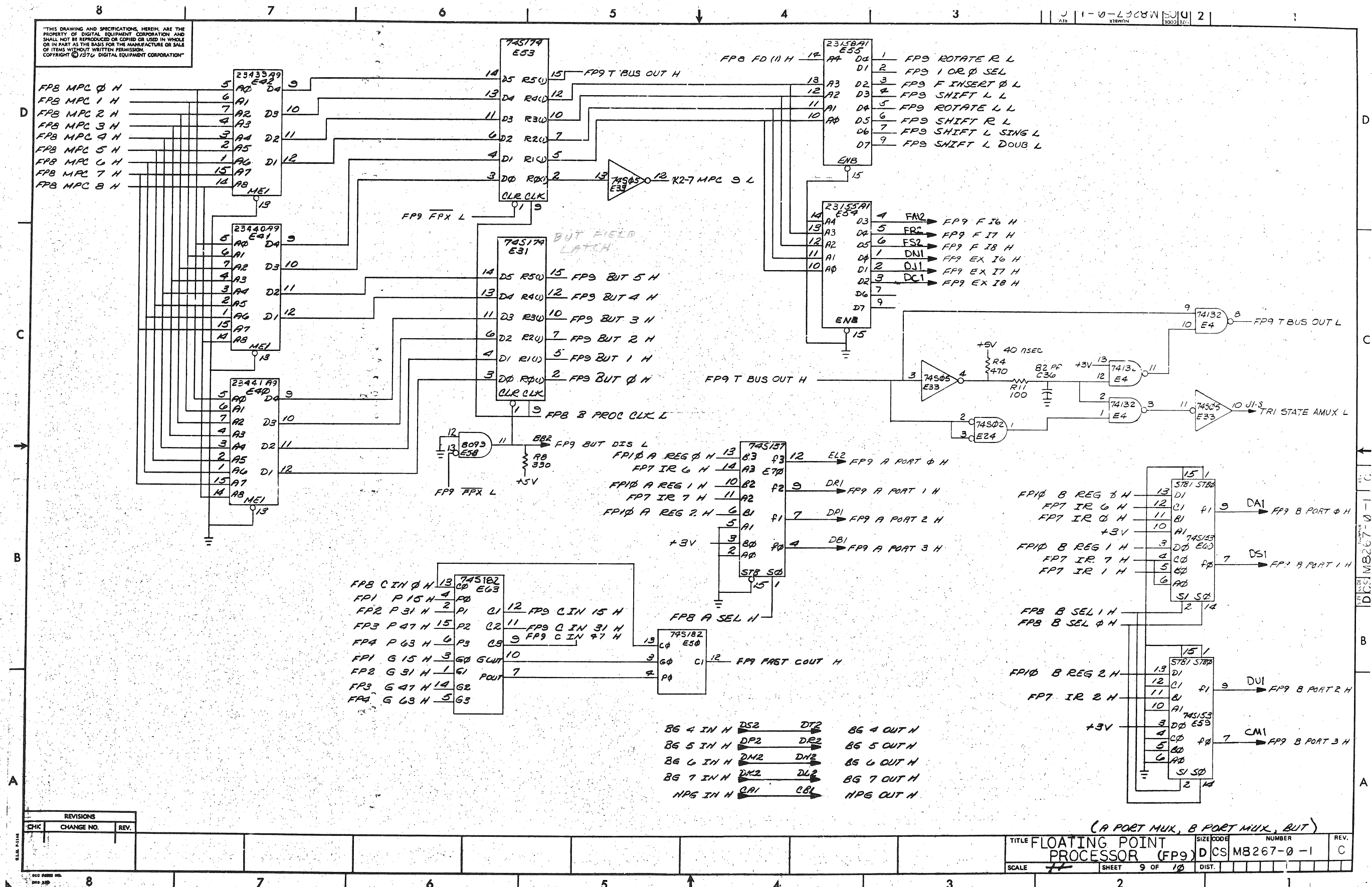
REVISIONS		
CHK	CHANGE NO.	REV.

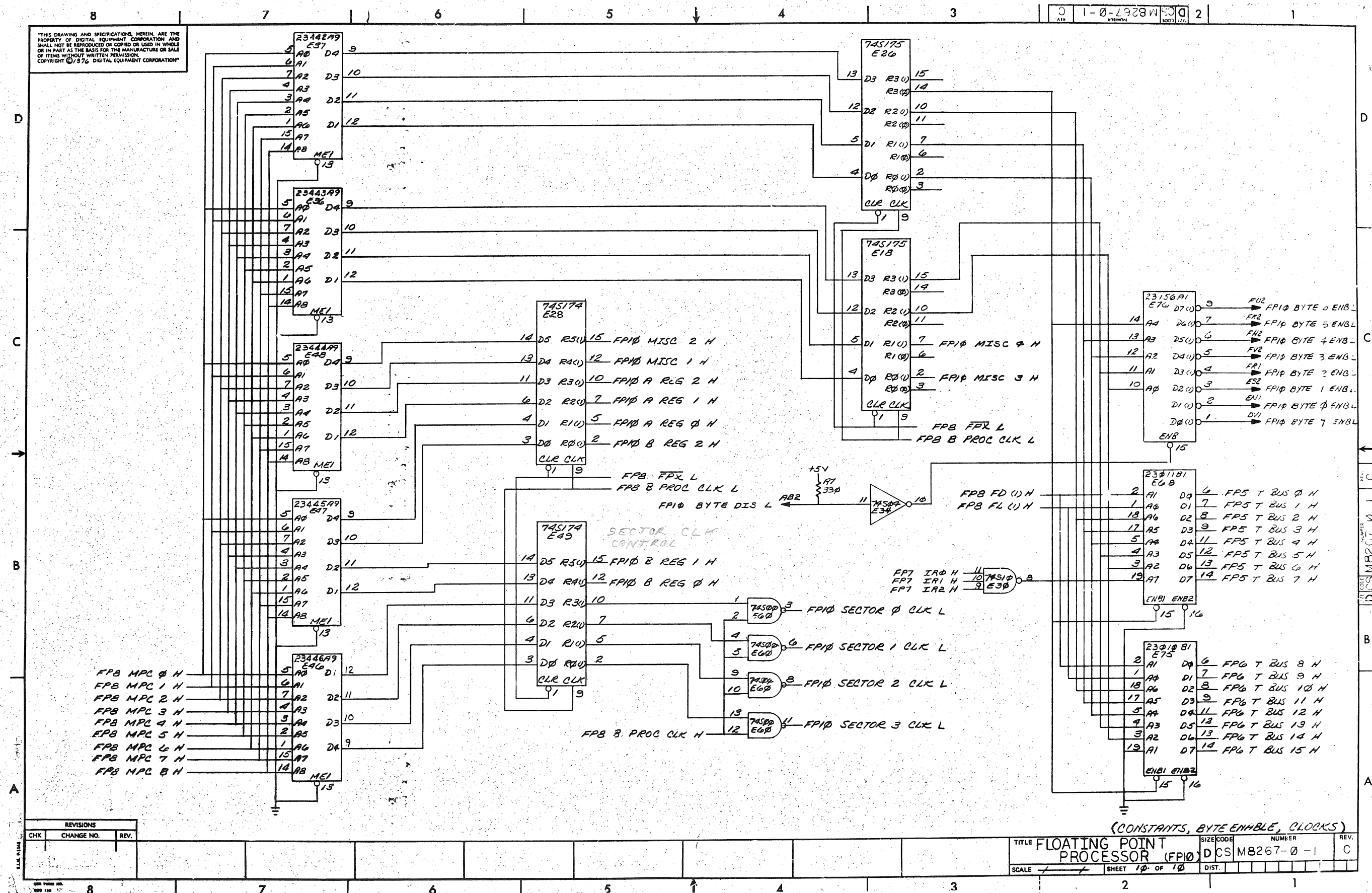
TITLE		SIZE CODE	NUMBER	REV.
FLOATING POINT PROCESSOR (FP6)		D	CS M8267-0-1	C
SCALE	SHEET	6 OF 10	DIST.	

84









8	7	6	5	4	3	2	1
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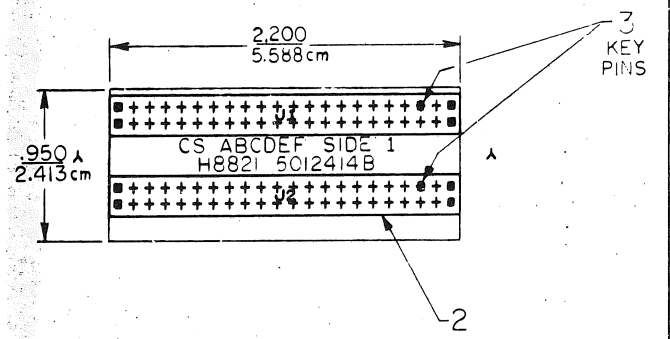
DATE: 1976

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CHANGE NO	REV

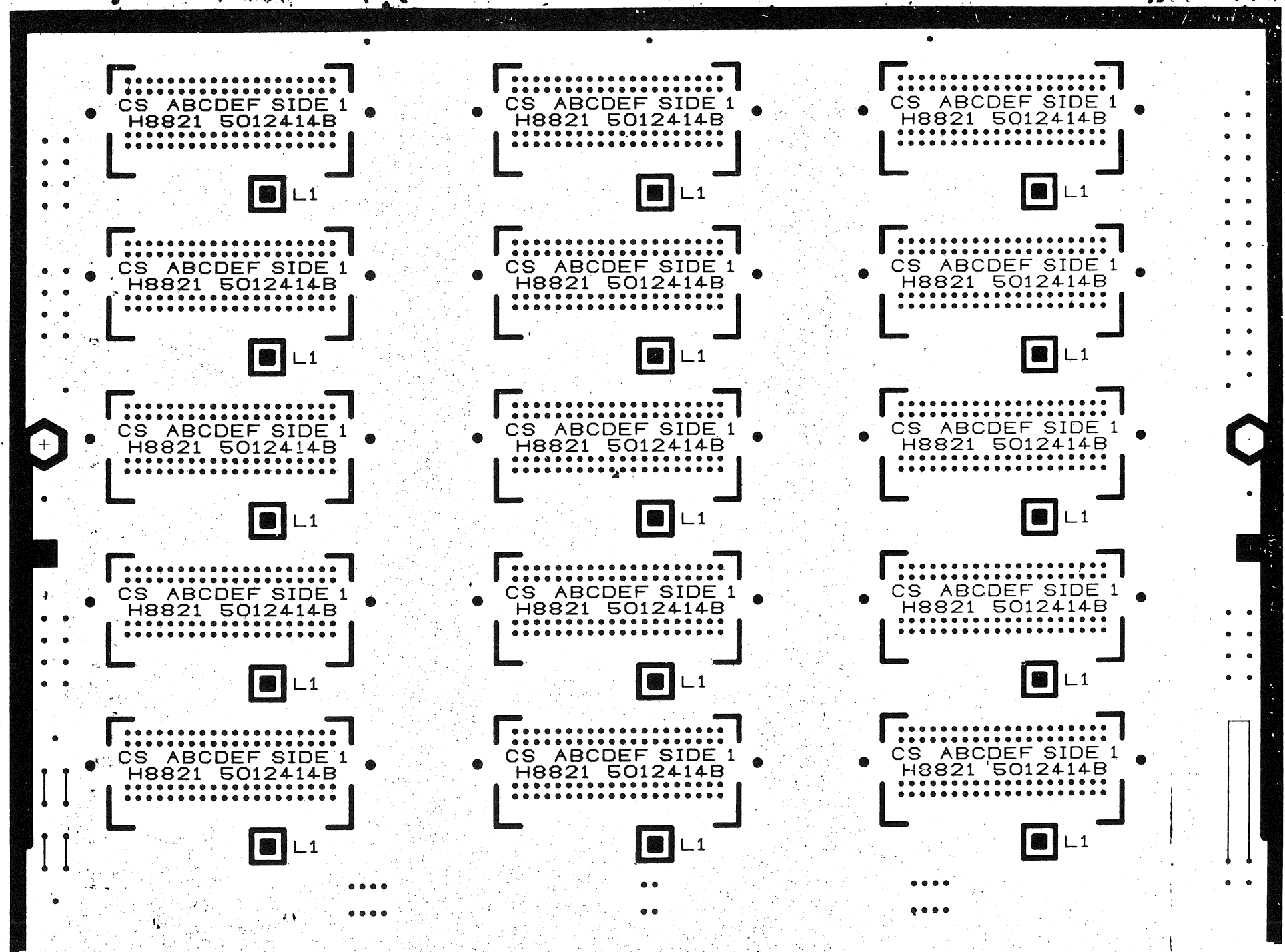
ETCH REV.	B
P.C. DESIGN DATA BASE REV. B	

SIGNATURES	DATE	TITLE
DRAWN: F. SEIDMAN	12-3-76	digital TITLE 40 PIN INTERCONNECT BOARD
CHK'D: F. SEIDMAN	12-3-76	
ENG. R. Barry	30874	
PROD. R. Barry	30874	
SCALE 2/1	30874	
SHT. 1 OF 3		SIZE CODE NUMBER
NEXT HIGHER ASSY. 8-05-H8821-0		D 101-4541-4-3



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0-0-1288H 70 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER		REV.
40 PIN INTERCONNECT BOARD		D UA	H8821-0-0		A
SCALE	2/1	SHEET	2 OF 3	DIST.	

DEC FORM NO. 090 137

90

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D

C

B

D

C

B

A

REVISIONS		
CHK	CHANGE NO.	REV.

DEC 1980

900 127

8

7

6

5

4

3

2

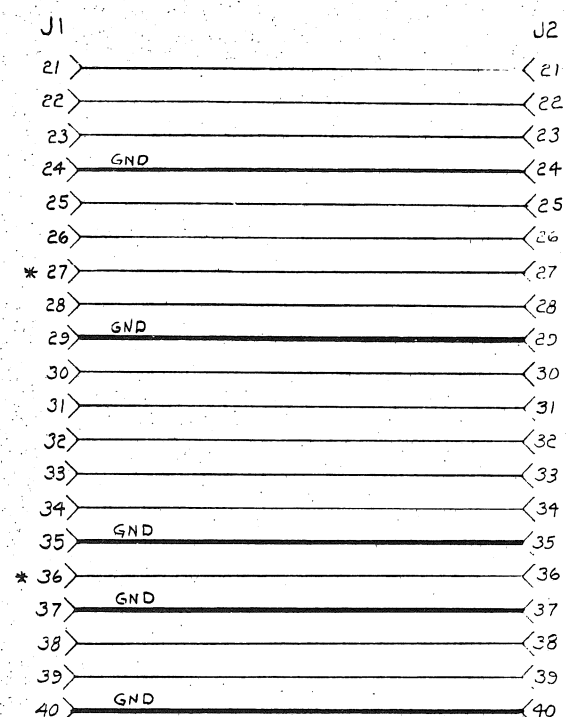
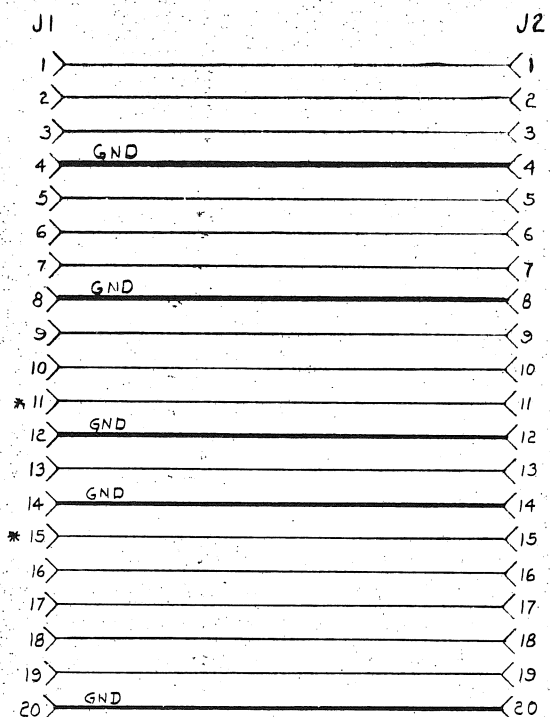
1

TITLE	SIZE CODE	NUMBER	REV.
40 PIN INTERCONNECT BOARD	D UA	H8821-0-0	A
SCALE 2/1	SHEET 3 OF 3	DIST.	

91

[illegible]

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NOTES:

- * DESIGNATES CONDUCTORS TO BE LOCATED ON LAYER 2
- GND WILL BE ON LAYER 3 & REMAINING ETCH ON LAYER 4
- LAYER 1 (SIDE 1) WILL BE FREE OF ALL CIRCUITRY

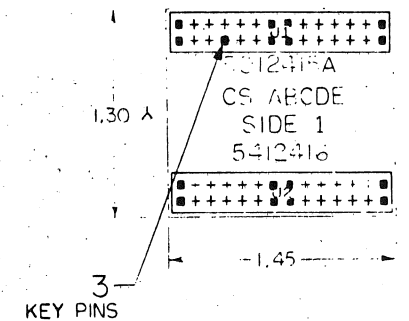
REV.
CHG
NO.

DEC FORM NO.
DRC 111

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. F. MULLIGAN	DATE 8/3/76	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	CHK'D L. Sedman	DATE 8/4/76		
DECIMALS	ENG R. Barry	DATE 3 DEC 76		
ANGLES	PROJ. ENG. R. Barry	DATE 3 DEC 76		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V	PROJ. R. Barry	DATE 6 DEC 76	TITLE 40 PIN INTERCONNECT BOARD	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE N/A		C CS	H8821-0-1
SHEET 1 OF 1		DIST.		REV. A

REV. A
NUMBER 1-4
H8821-0-1
SIZE CODE C CS

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NOTES:

CHG	CHANGE NO	REV

ETCH REV. A
P.C. DESIGN DATA BASE REV. A

SIGNATURES	DATE	TITLE
DRN.	3/1/70	digital
CHK'D. F. S. L. MAN	3/4/70	
ENG. R. R. R.	3/24/70	MODULE
PROJ. ENG. R. R. R.	3/24/70	INTERNAL BOARD
PROD. R. R. R.	3/24/70	
SCALE 2/1		SIZE CODE NUMBER REV
SHT. 1 OF 3		D 01-5412416-0 2
NEXT HIGHER ASSY. B-D0-5412416-0		

1 MS#60054

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5012415A
CS ABCDE
SIDE 1
5412416
L1

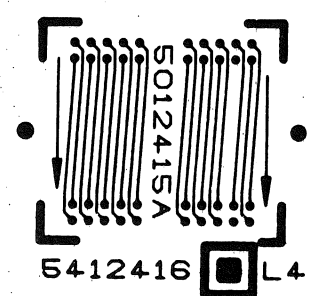
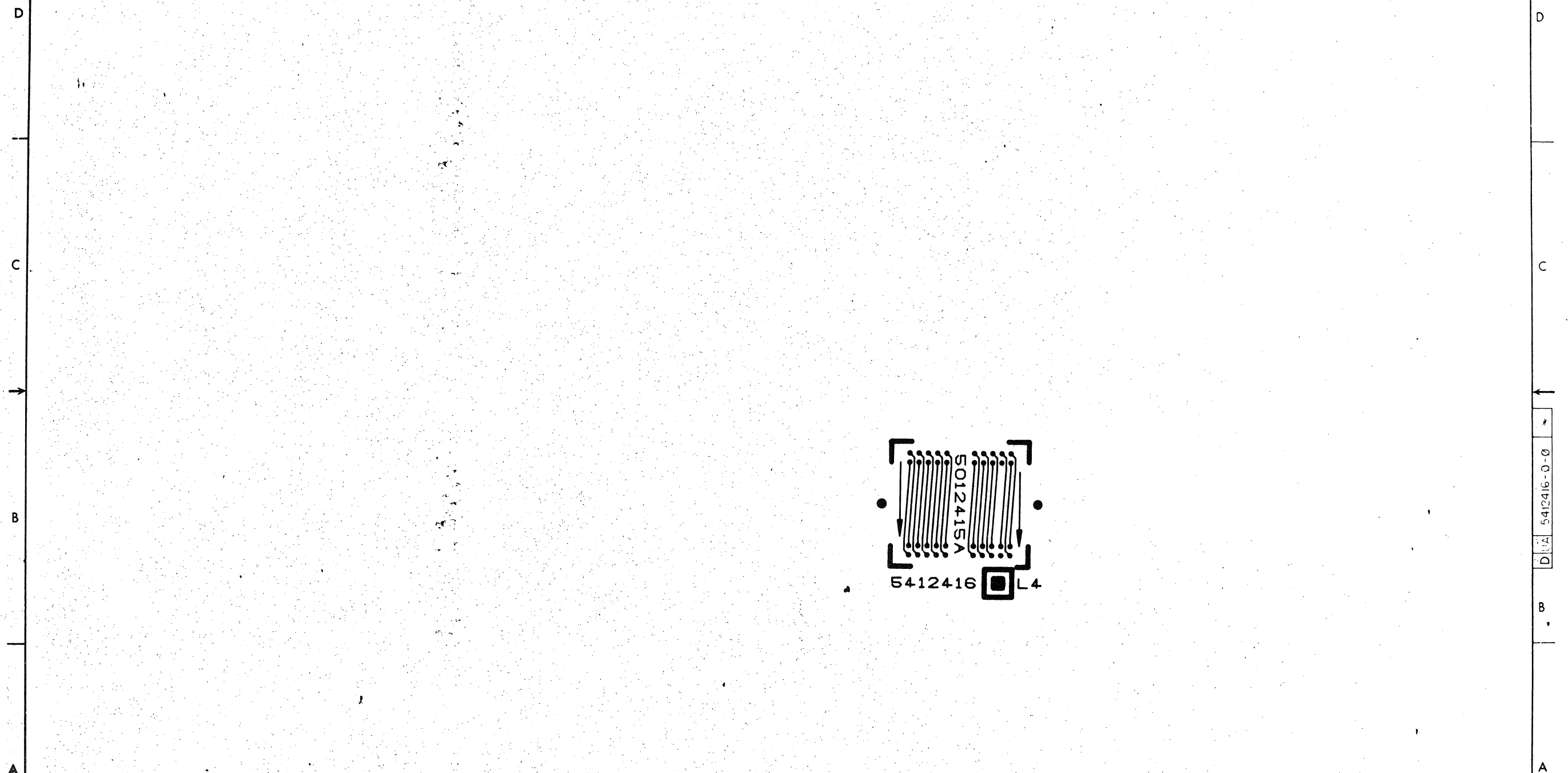
REVISIONS		
CHK	CHANGE NO.	REV.
1		

TITLE		SIZE/CODE	NUMBER	REV.
MODULE INTERCONNECT BOARD		D UA	5412416-0-0	*
SCALE 2/1	SHEET 2 OF 3	DIST.		

8 7 6 5 4 3 2 1

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* 0-0-0-912416 5412416 D UA 2



* 0-0-0-912416 5412416 D UA

B

A

REVISIONS		
CHK	CHANGE NO. *	REV.

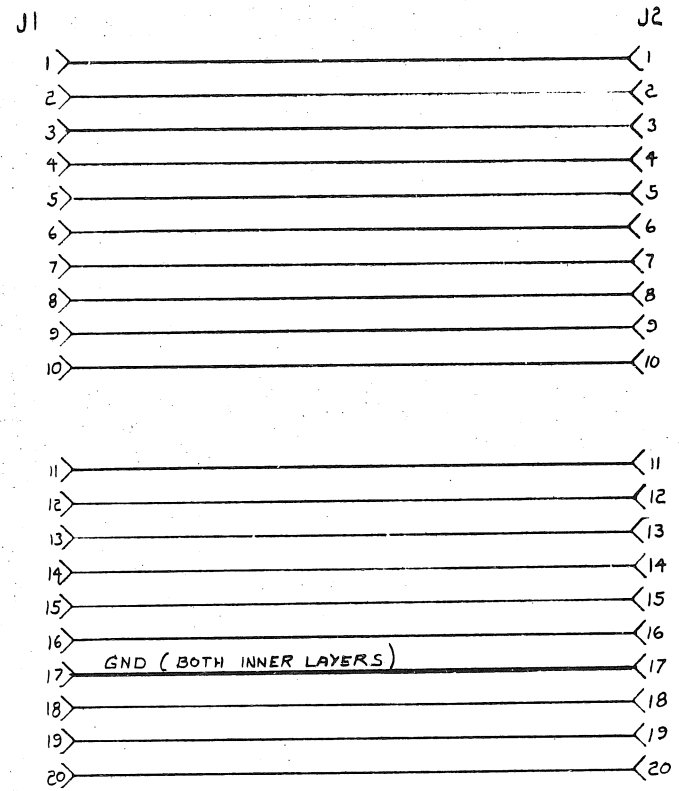
TITLE		SIZE	CODE	NUMBER		REV.
MODULE INTERCONNECT BOARD		D	UA	5412416-0-0		*
SCALE	2/1	SHEET	3 OF 3	DIST.		

8 7 6 5 4 3 2 1

96

[illegible]

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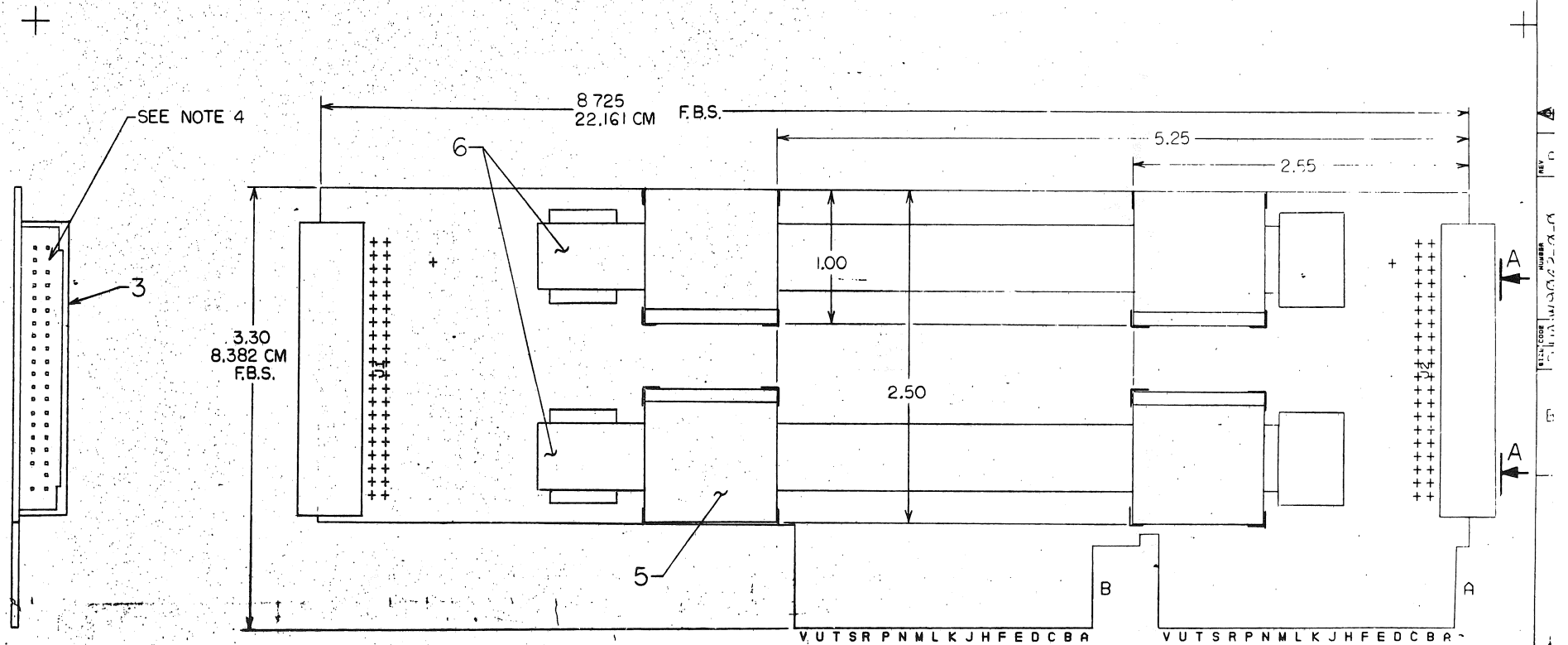
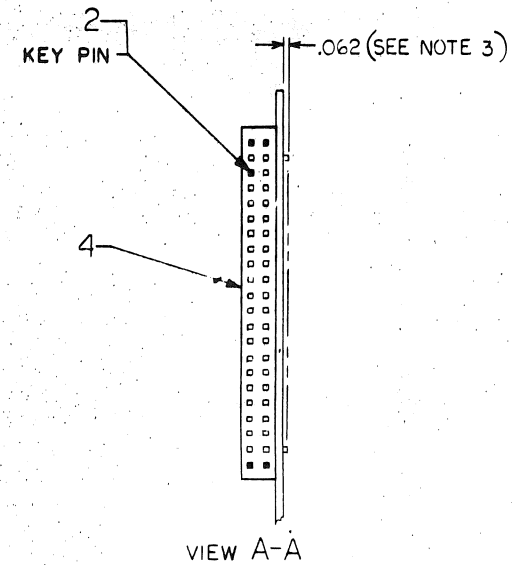
NOTE :
1- ALL ETCH ON SIDE 2 ONLY EXCEPT GND PLANES.

REV.
CHG
NO.
NO.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		PARTS LIST			
TOLERANCES		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
DECIMALS	ANGLES	TITLE			
.xxx = .005	±0° 30'	MODULE			
.xx = .02		INTERCONNECT BOARD			
.x = .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		SCALE N/A			
		SHEET 1 OF 1			
		DIST.			
		SIZE CODE NUMBER REV.			
		C CS 5412416-0-1 *			

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COMPONENT SIDE VIEW



NOTES:

1. THIS MODULE CAN BE USED AS A JUMPER CONTINUITY CARD.
2. ITEM 6 CABLES ARE USED FOR MAIN-TENANCE PURPOSES ON THE EPIA OPTIONS. SEE E-UA-EPIA-0-0.
3. TRIM ITEM 4 LEADS AFTER MOUNTING.
4. REMOVE PIN INDICATED TO REMOVE PIN. STRAIGHTEN BACK END AND PULL OUT FROM FRONT OF CONNECTOR.
5. USE CABLE CLAMPS ITEM 5 TO STORE CABLES ITEM 6 WHEN NOT IN USE.

CHANGE NO	REV	DESCRIPTION
1	1	INITIAL C
2	1	INITIAL C
3	1	INITIAL C
4	1	INITIAL C
5	1	INITIAL C
6	1	INITIAL C
7	1	INITIAL C
8	1	INITIAL C

ETCH REV. C
P.C. DESIGN DATA BASE REV. C-P1

SIGNATURES	DATE	digital
DRN. F. MULLIGAN	7/2/76	
CHK'D. R. PUZZO	11/9/76	
ENG. R. Barry	10DEC76	
PROJ. ENG. R. Barry	11DEC76	
PROD. R. Barry	10DEC76	
SCALE 2/1		
SHT. 1 OF 3		
NEXT HIGHER ASSY. B-DD-W9042-0		

TITLE
EXTENDER BOARD ASSEMBLY

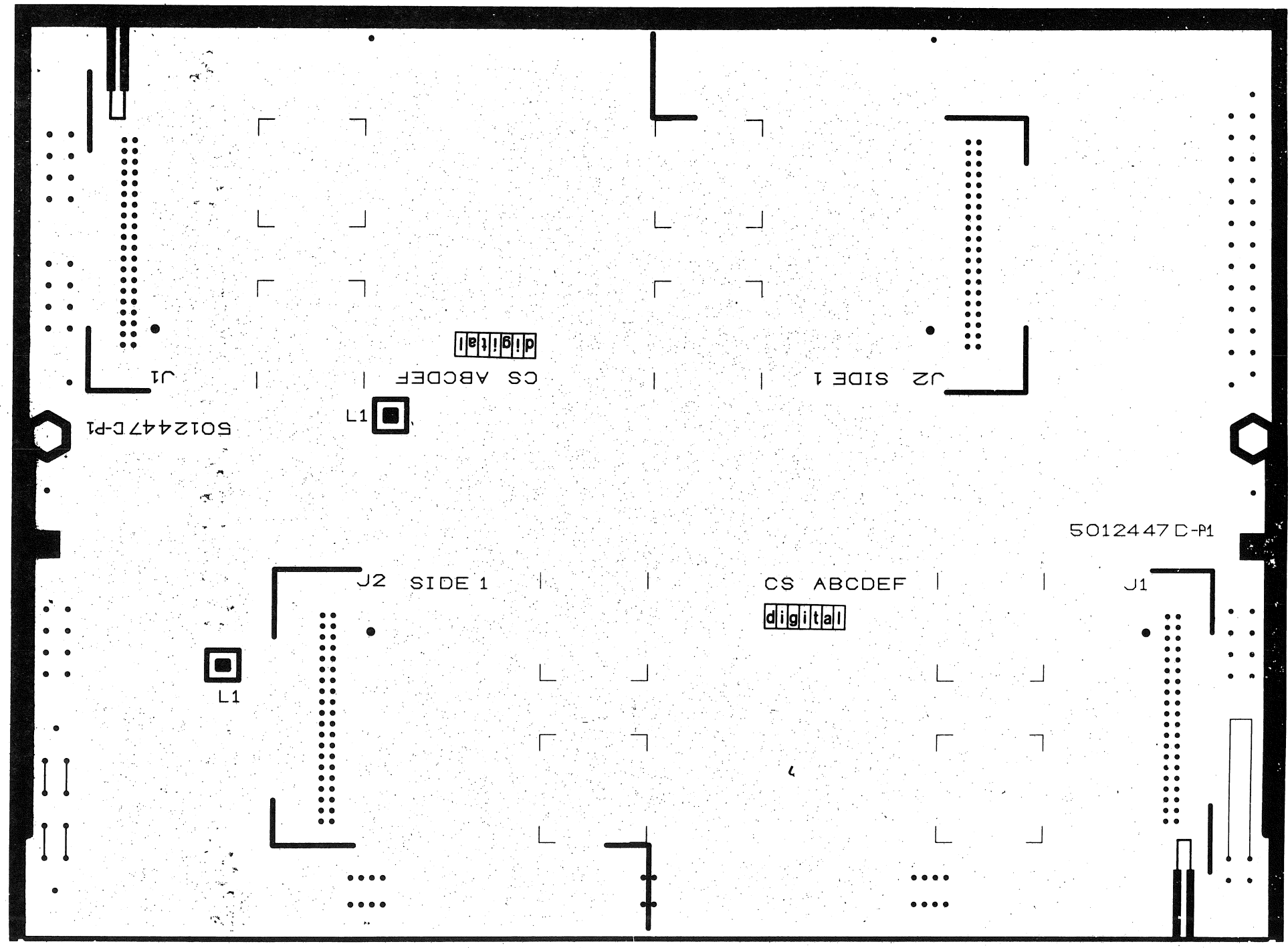
SIZE CODE NUMBER REV
D UA W9042-0-0 B

1 MS#

8 7 6 5 4 3 2 1

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
THIS DRAWING IS THE PROPERTY OF
THE MANUFACTURER AND IS NOT TO BE
REPRODUCED OR USED IN WHOLE OR IN
PART WITHOUT THE WRITTEN PERMISSION
OF THE MANUFACTURER
1977

EXTENDER



REVISIONS		
NO.	DESCRIPTION	REV.
1	CHANGE NO.	REV.

TITLE		D UAIW9042-C -C		B
EXTENDER BOARD ASSEMBLY		SHEET 2 OF 3		
SCALE 2:1				

100 8 7 6 5 4 3 2 1

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LAYER 4

EXTENDER BOARD ASS'Y SIDE 2 5012447C-P1 W9042

L4

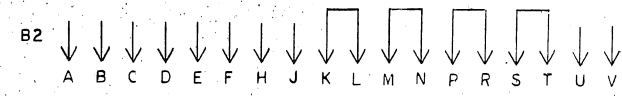
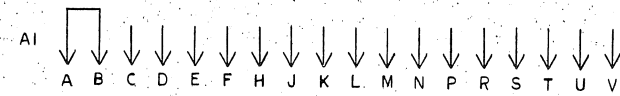
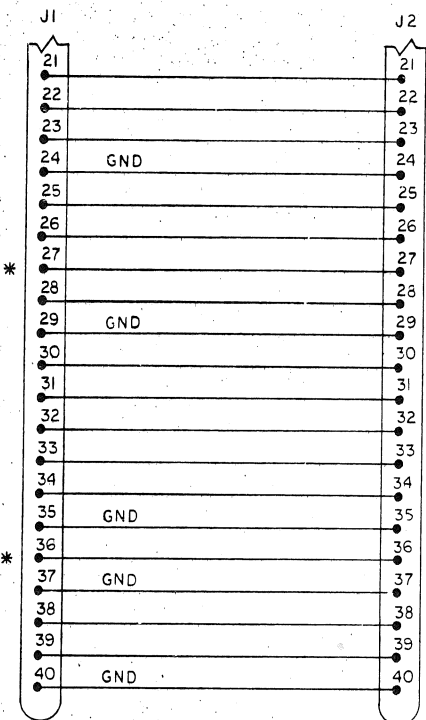
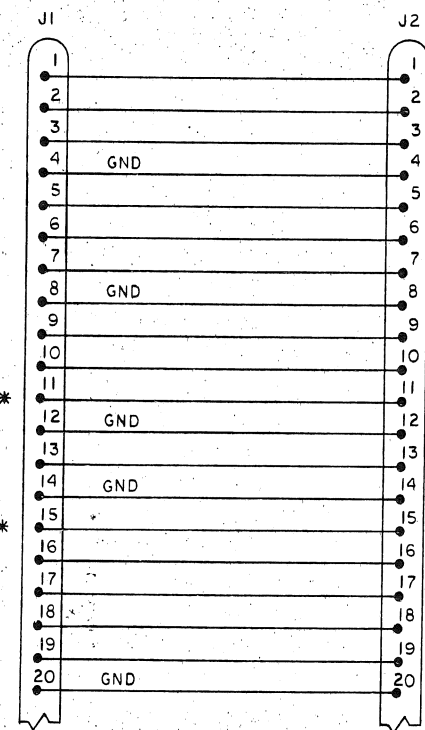
EXTENDER BOARD ASS'Y SIDE 2 5012447C-P1 W9042

L4

REVISIONS		
CHK	CHANGE NO.	REV.

EXTENDER BOARD ASSEMBLY										D	UA	W9042-0-0	B
2:1	3	3	3	3	3	3	3	3	3	3	3	3	3

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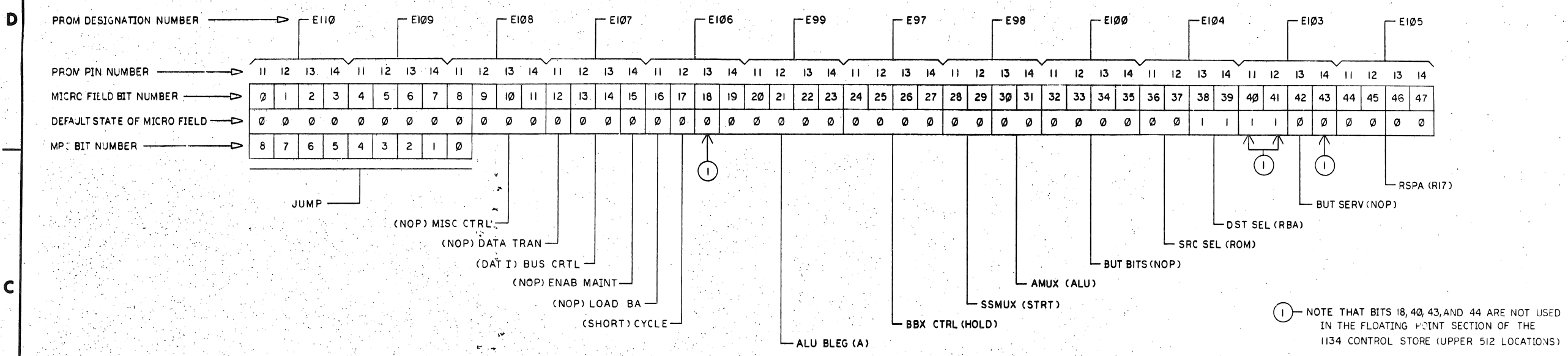
NOTE: 1. (*) DESIGNATES ETCH CONNECTION ON LAYER 2

REV.	CHG.	NO.
B	1	1
A	1	1
D	1	1

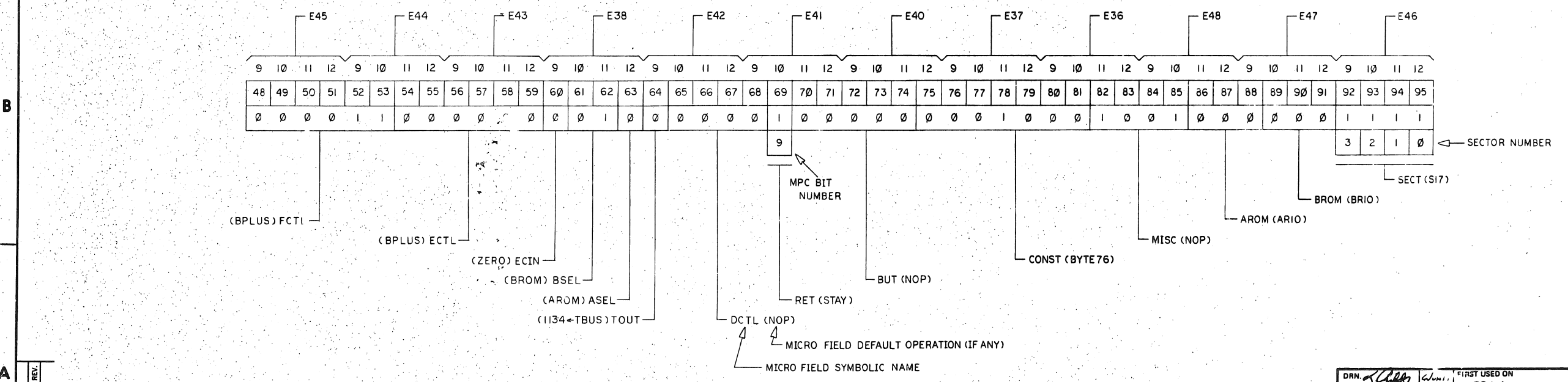
DRN.	CHK'D	ENG.	PROJ. ENG.	PROD.	NEXT HIGHER ASSY.	FIRST USED ON	TITLE	SIZE	CODE	NUMBER	REV.
		R. Barry	R. Barry	R. Barry			EXTENDER BOARD ASSEMBLY	D	CS	W9042-0-1	1

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FPII-A CONTROL WORD (WITHIN M8266)



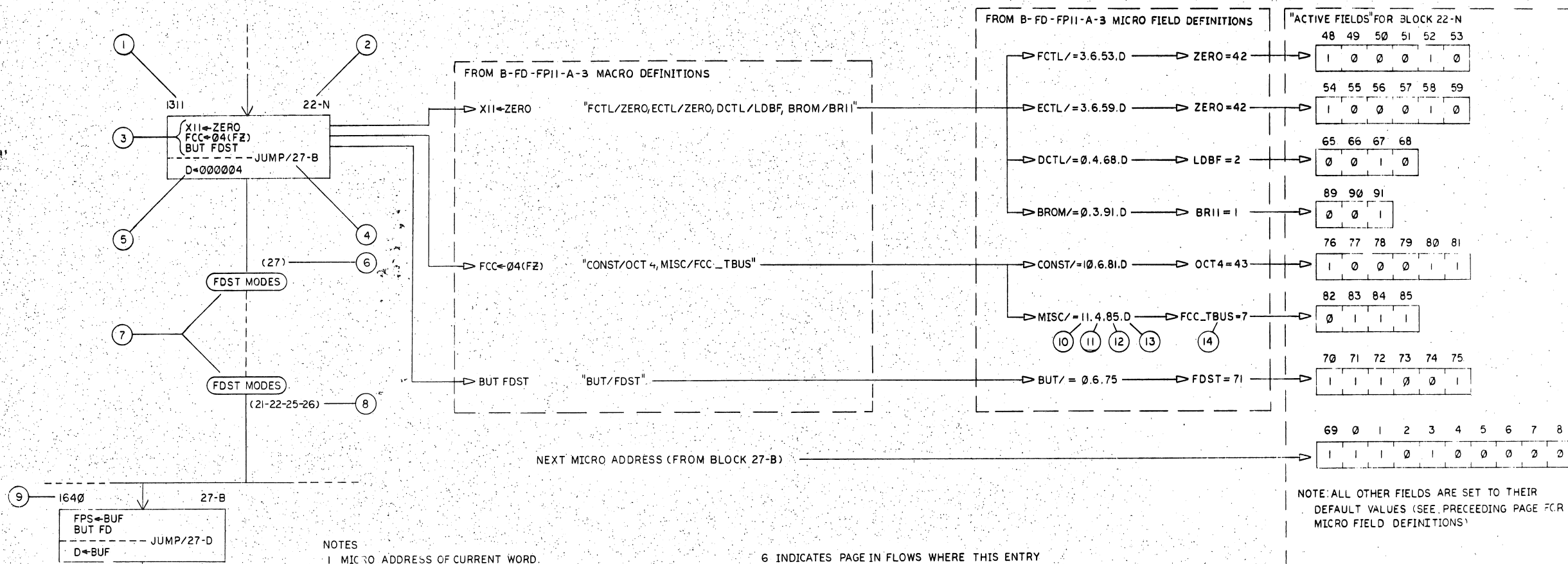
FPII-A CONTROL WORD (WITHIN M8267)



DRN. <i>1000</i>	DATE <i>June 77</i>	FIRST USED ON	FPII-A
CHK'D <i>1000</i>	DATE <i>June 77</i>	TITLE	FPII-A
ENG. <i>1000</i>	DATE <i>June 77</i>	FLOW DIAGRAMS	
PROJ. ENG. <i>1000</i>	DATE <i>June 77</i>		
PROD. <i>1000</i>	DATE <i>June 77</i>		
NEXT HIGHER ASSY.		SIZE	CODE
B-DD-FPII-A		D	FD
SCALE		NUMBER	REV.
SHEET 1 OF 40		DIST.	

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KEY TO MICRO FLOW SYMBOLOGY



NOTES

- 1 MICRO ADDRESS OF CURRENT WORD.
- 2 SYMBOLIC TAG OF CURRENT WORD CONSISTS OF PAGE NUMBER AND BLOCK LABEL (PAGE-FLOCK)
- 3 MICRO OPERATIONS WHICH TAKE PLACE DURING THIS STATE. THE FIELDS WHICH ARE INVOLVED IN CARRYING OUT THESE OPERATIONS CAN BE DETERMINED USING: FPII-A: MACRO DEFINITIONS FPII-A: MICRO FIELD DEFINITIONS
- 4 27-B IS THE SYMBOLIC TAG OF THE NEXT MICRO WORD (TARGET) ASSUMING NO BRANCHING (DESTINATION MODE 0). THIS CAN BE USED TO DETERMINE THE NEXT ADDRESS FIELD OF THE CURRENT MICRO WORD.
- 5 "D" STANDS FOR DISPLAY. IN THIS CASE, 000004 WILL APPEAR ON THE CONSOLE DISPLAY IF OPERATING IN MAINTENANCE MODE.
- 6 INDICATES PAGE IN FLOWS WHERE THIS ENTRY POINT CAN BE FOUND.
- 7 EXIT AND ENTRY LABELS ARE USED TO INDICATE LOGICAL FLOW FROM PAGE TO PAGE.
- 8 INDICATES PAGES IN FLOWS FROM WHICH ENTRY POINT IS CALLED.
- 9 THIS ADDRESS IS THE TARGET OF THE JUMP FIELD OF BLOCK 22-N
- 10 DEFAULT VALUE OF THIS FIELD
- 11 NUMBER OF BITS IN THIS FIELD
- 12 LOCATION OF RIGHT MOST BIT OF THIS FIELD WITHIN MICRO WORD.
- 13 INDICATES THAT THE DEFAULT IS TAKEN IF NOTHING ELSE IS SPECIFIED
- 14 OCTAL VALUE OF MICRO FIELD LITERAL

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
FPII-A-FLOWS		D/FD	FPII-A-2	
SCALE		SHEET	2 OF 40	DIST.

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FPII-A TYPICAL REGISTER USAGE

17	FPS			
16				
15				
14				
13	ZERO			
12				
11	FSRC			
10	AC			
9	FSRC (BECOMES SIGN)			
8	AC5			
7				
6				
5				
4	AC4			
3	AC3			
2	AC2			
1	AC1			
0	AC0			

SECTOR3	SECTOR 2		SECTOR 1		SECTOR 0		SECTOR 3
BYTE 6	BYTE 5	BYTE 4	BYTE 3	BYTE 2	BYTE 1	BYTE 0	BYTE 7
F-REG							E-REG
X-REG							

FPII-A TS BUS ASSIGNMENT

TS0		Y8
TS1		Y9
TS5	FT	Y61
TS6		Y62
TS8	FIC	
TS9	FIV	
TS10		
TS11	F11 /	
TS14	F1D	

FPII-A MPC BUTOFF BITS

MPC	I134	FPX TS BUT	FPX CONDITIONS	FPX BUT OPI	FPX BUT OP2
0	IR09	—	—	OPI0	OP20
1	ZBIT	TS0	TS14	OPI1	OP21
2	C05	TS1	XOUT	OPI2	OP22
3	SPI5	TS8	Q8-Q40	OPI3	OP23
4	BX00	TS9	XZBT	—	—
5	BX01	TS10	XNBT	—	—
6	NBIT	TS11	BUSRQ	—	—
7	COUT	TS5	EZBT	—	—
8		TS6	ENBT	—	—

FLOATING POINT STATUS REGISTER

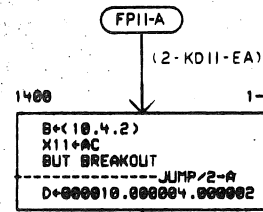
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
FER	FID	X	X	FIV	FIU	FIV	FIC	FD	FL	FT	X	FN	FZ	FV	FC

INTERRUPT MODE CONDITION
ENABLES BITS CODES

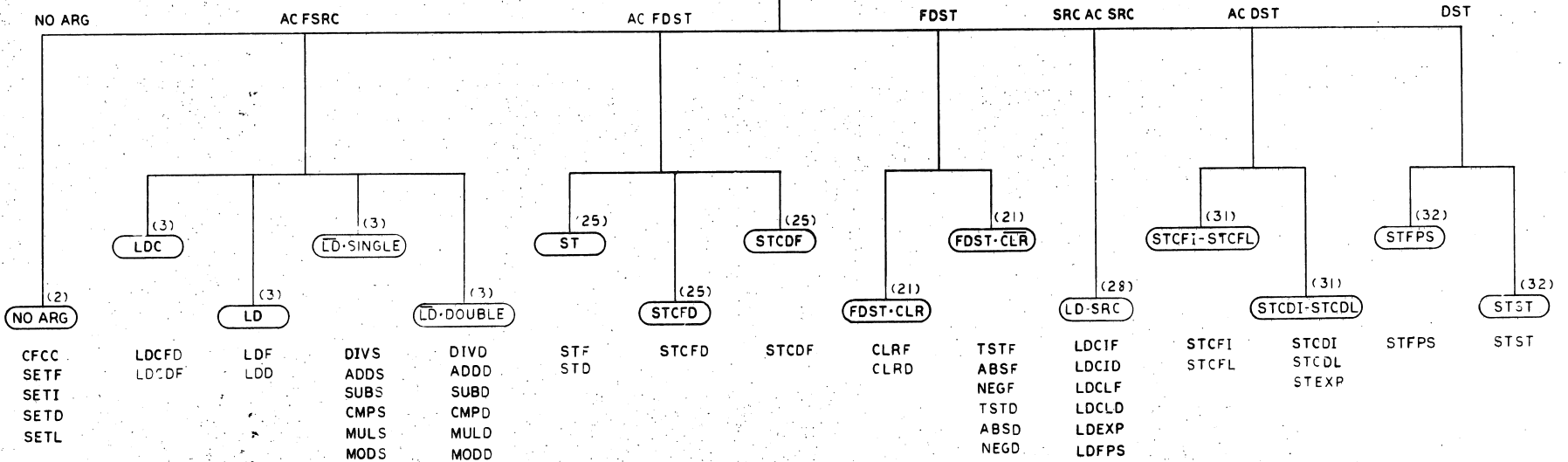
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER		REV.
FPII-A FLOWS		D FD	FPII-A-2		
SCALE	SHEET	DIST.			

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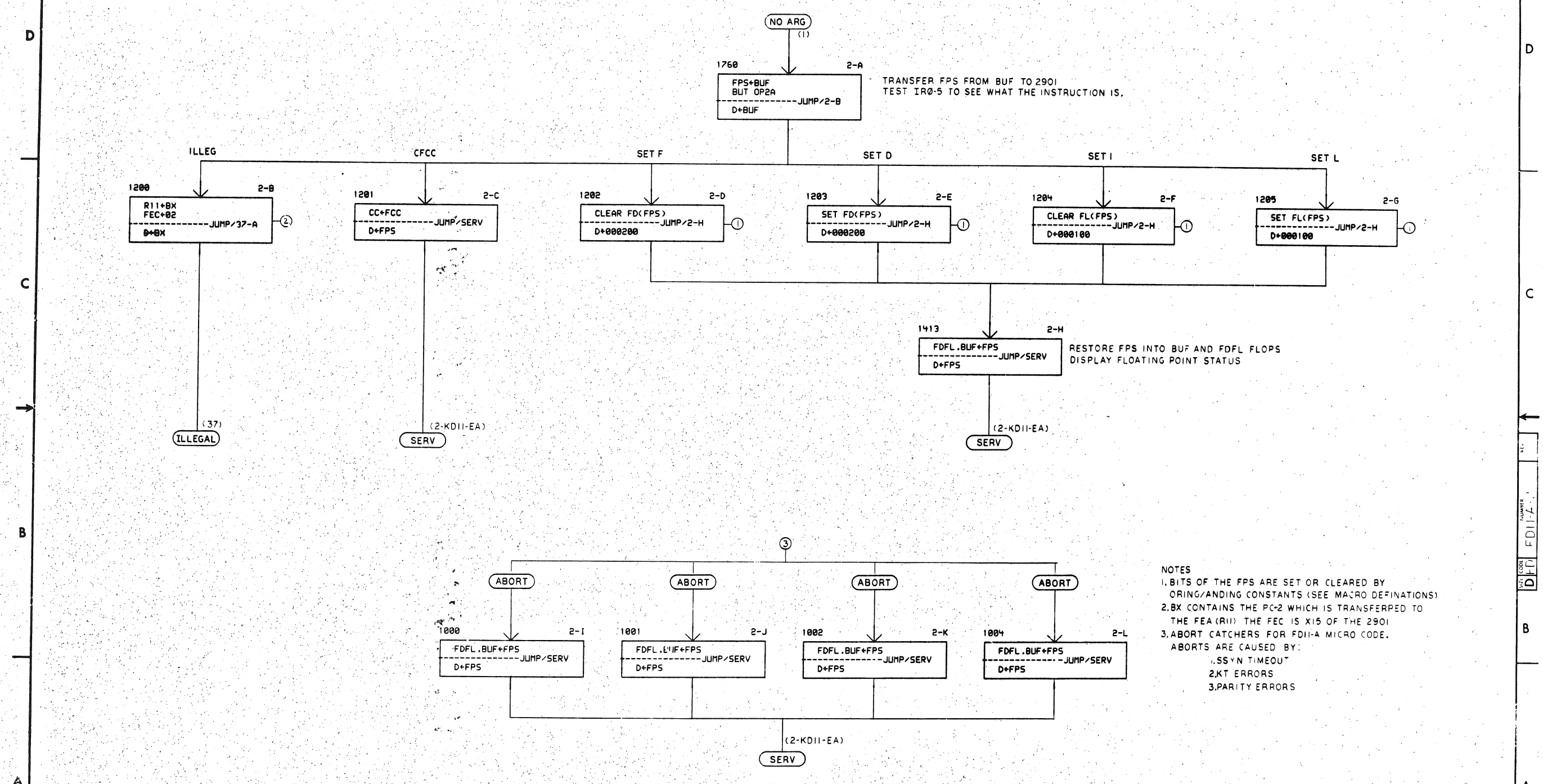
PUT INDEX CONSTANT INTO B-REGISTER
LOAD X11 WITH ACCUMULATOR SPECIFIED BY IR6-7
BREAKOUT INSTRUCTION USING IR6-II AND OPI PROM (E66)
DISPLAY INDEX CONSTANT AS FOLLOWS (DOUBLE-SINGLE-IMMEDIATE)



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE				SIZE	CODE	NUMBER				REV.
FPII-A FLOWS (i)				D	FD	FPII-A-2				
SCALE		SHEET		DIST.						
4 OF 40										

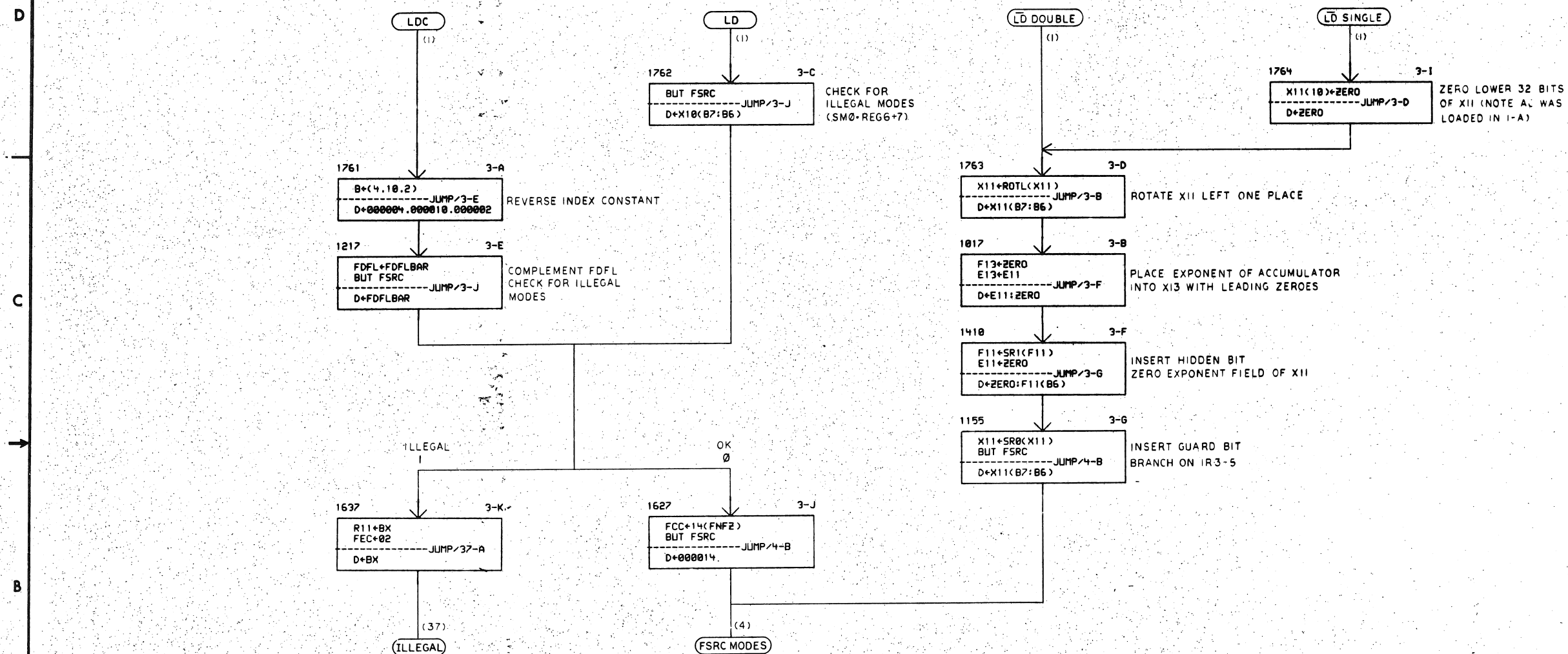
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NOTES
1. BITS OF THE FPS ARE SET OR CLEARED BY ORING/ANDING CONSTANTS (SEE MACRO DEFINITIONS)
2. BX CONTAINS THE PC+2 WHICH IS TRANSFERRED TO THE FEA (R11). THE FEC IS X15 OF THE 2901
3. ABORT CATCHERS FOR FDI-A MICRO CODE.
ABORTS ARE CAUSED BY:
1. SSYN TIMEOUT
2. KT ERRORS
3. PARITY ERRORS

REVISIONS		
CHK	CHANGE NO.	REV.

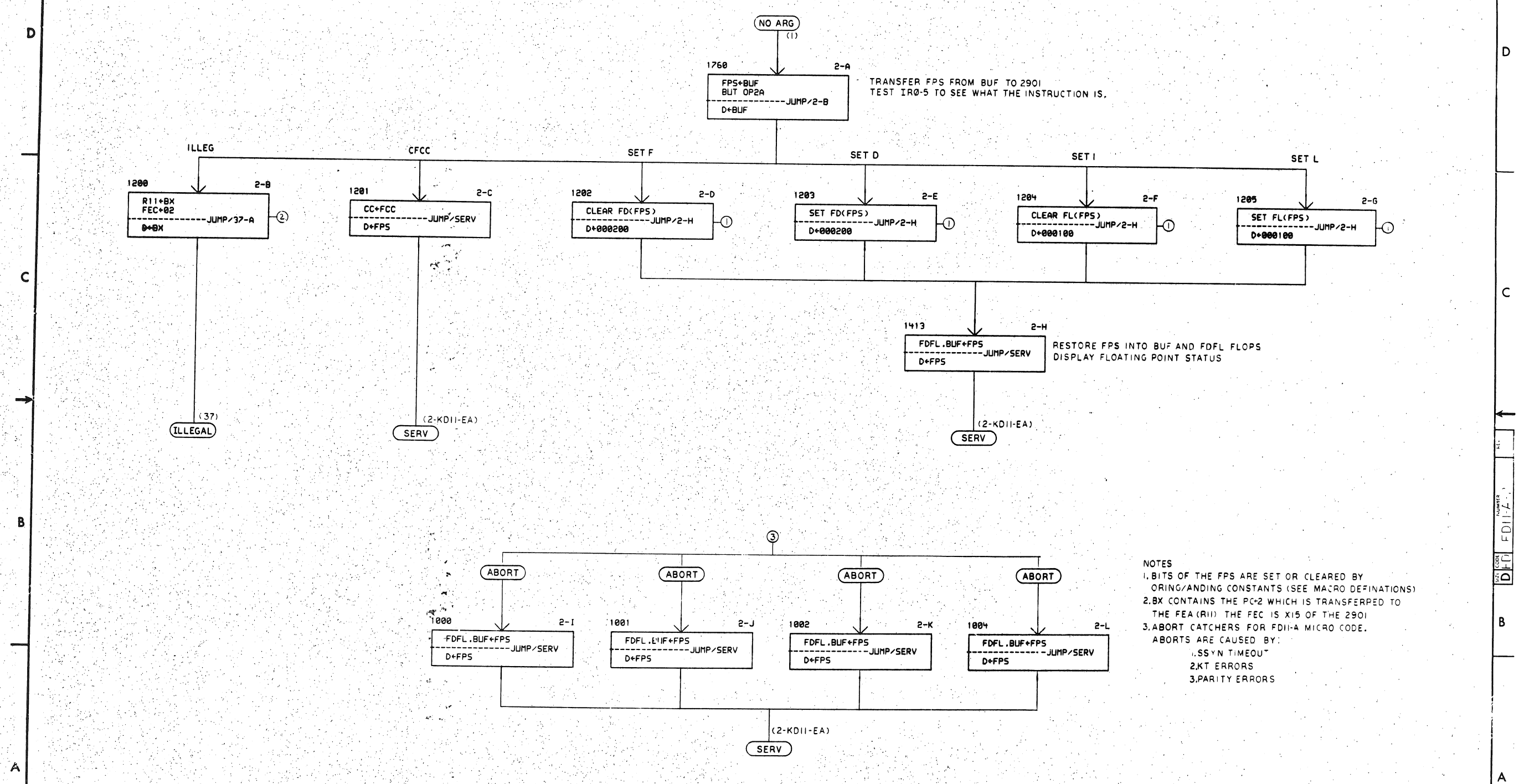
TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (2)		D/FD	FPII-A-2	
SCALE	SHEET	DIST.		
	2 OF 40			



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-A FLOWS (3)		SIZE D	CODE FD	NUMBER FPII-A-2		REV.
SCALE	SHEET 6 OF 40	DIST.				

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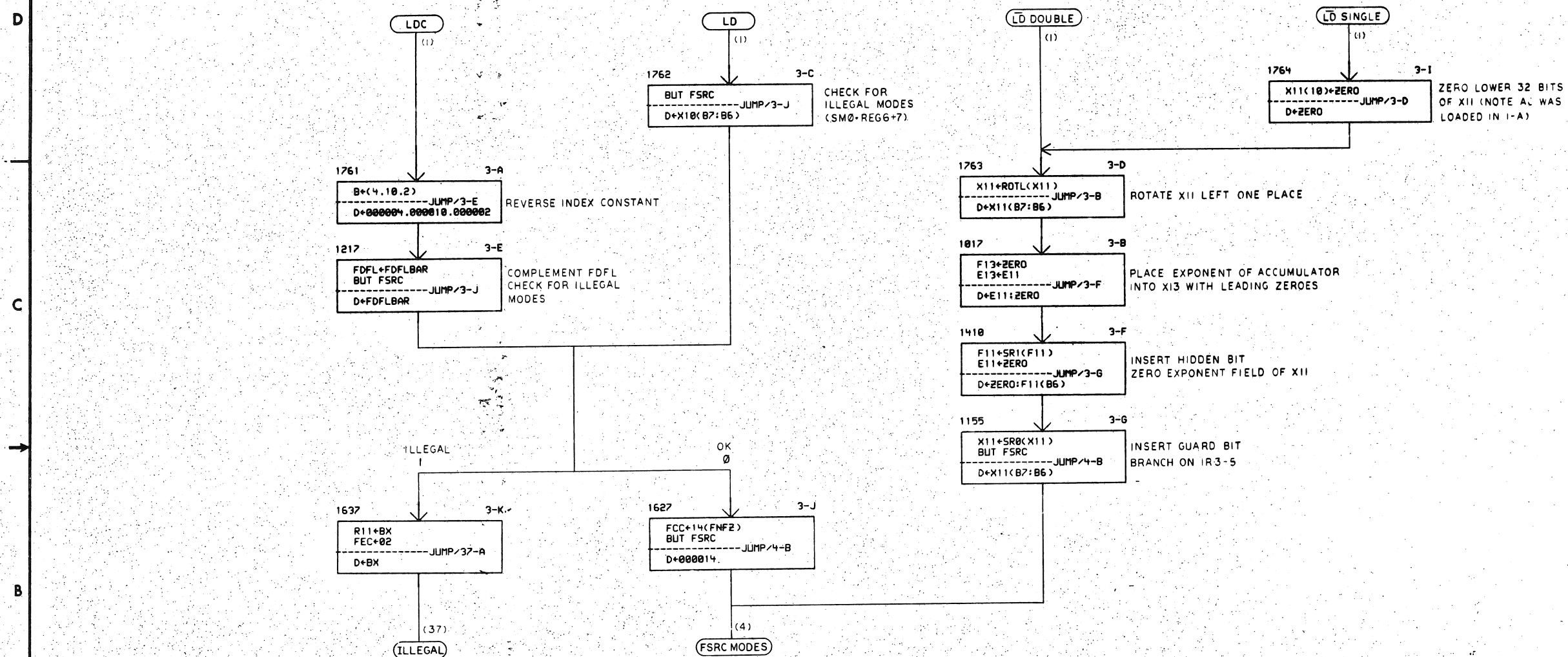


NOTES
1. BITS OF THE FPS ARE SET OR CLEARED BY ORING/ANDING CONSTANTS (SEE MACRO DEFINITIONS)
2. BX CONTAINS THE PC+2 WHICH IS TRANSFERRED TO THE FEA (R11) THE FEC IS X15 OF THE 2901
3. ABORT CATCHERS FOR FPII-A MICRO CODE.
ABORTS ARE CAUSED BY:
1. SSYN TIMEOUT
2. KT ERRORS
3. PARITY ERRORS

REVISIONS		
CHK	CHANGE NO.	REV.

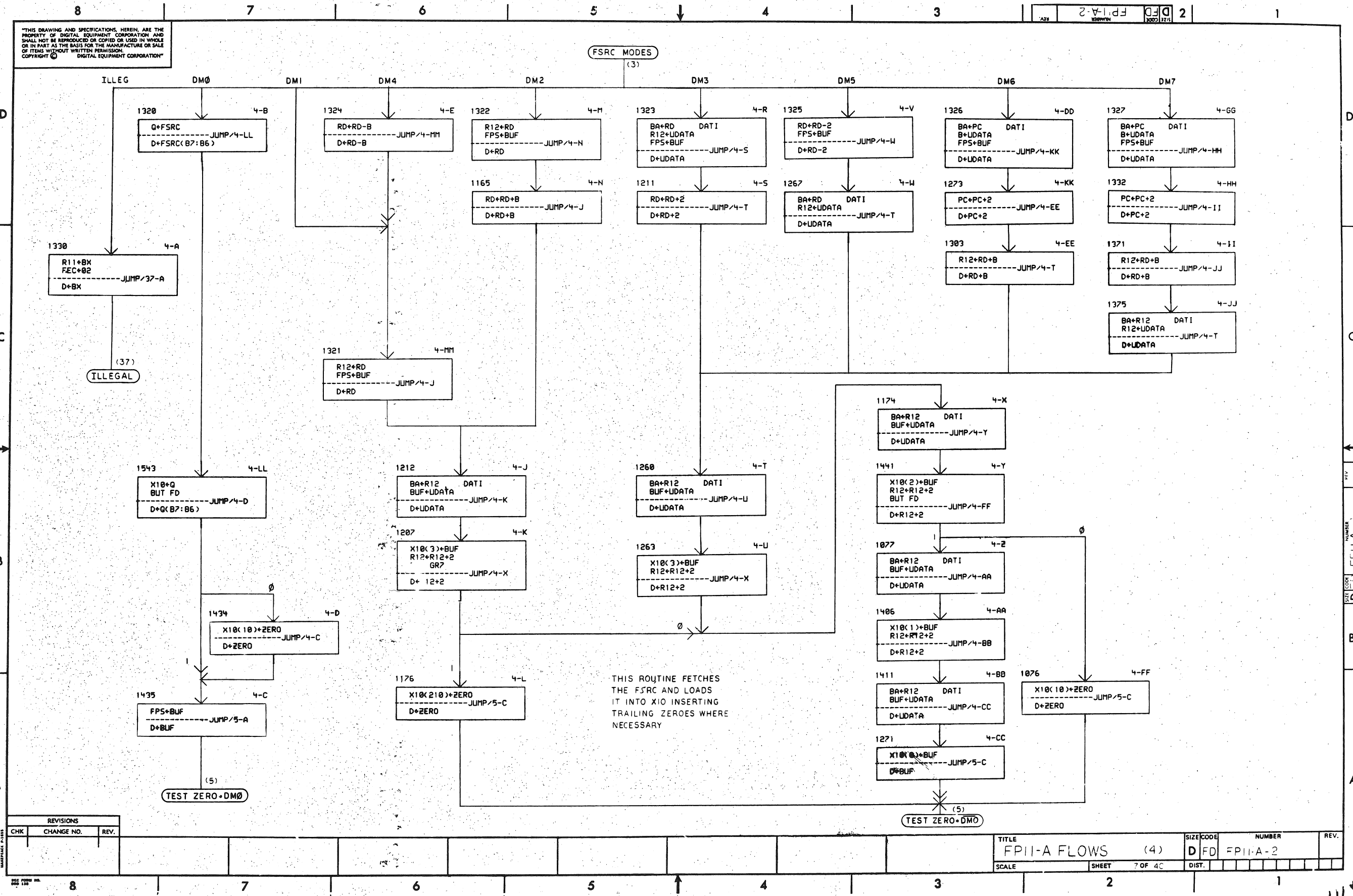
TITLE		SIZE	CODE	NUMBER	REV.
FPII-A FLOWS (2)		D	FD	FPII-A-2	
SCALE		SHEET		OF 40	
DIST.					

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REVISIONS		
CHK	CHANGE NO.	REV.

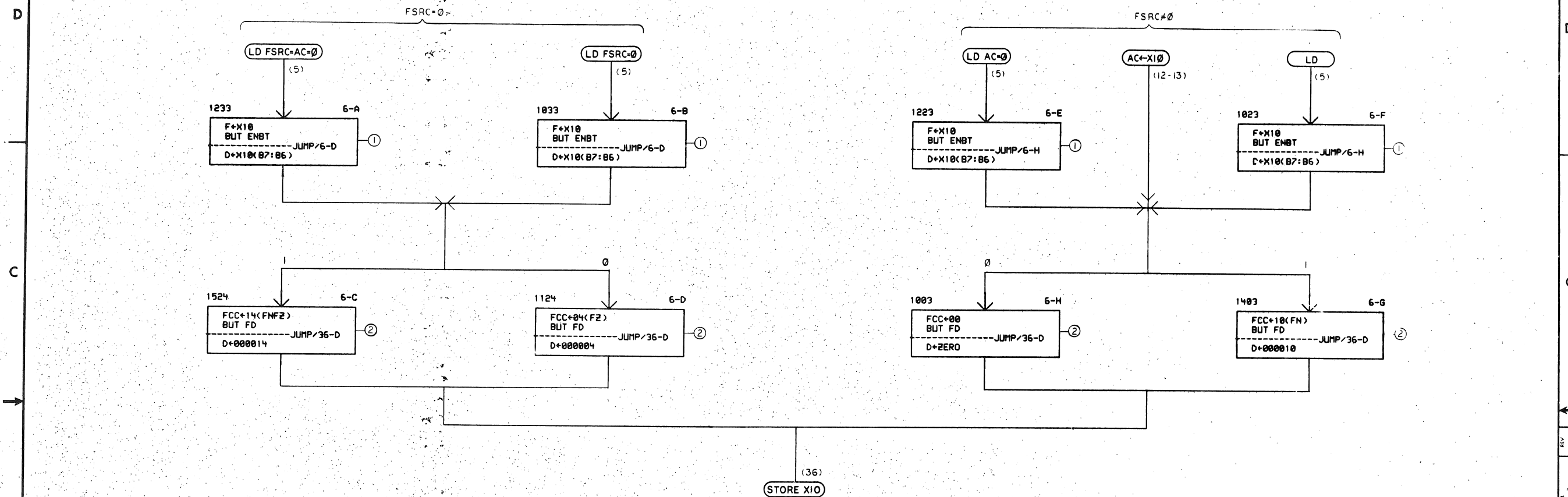
TITLE FPII-A FLOWS (3)		SIZE D	CODE FD	NUMBER FPII-A-2	REV
SCALE	SHEET 6 OF 40	DIST.			





TITLE FPII-A FLOWS (5)		SIZE D	CODE FD	NUMBER FPII-A-2		REV.
SCALE	SHEET	3 OF 40		DIST.		

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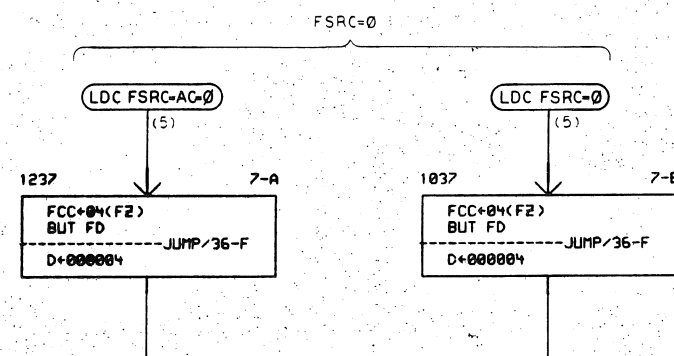


NOTES
 1. TEST SIGN OF FSRC (X10:BIT 7)
 2. SET FLOATING CONDITION CODES (FCC) USING THE APPROPRIATE CONSTANT. NOTE THAT THE FCC IS CONTAINED IN THE LOWER FOUR BITS OF THE BUFFER (BUF).

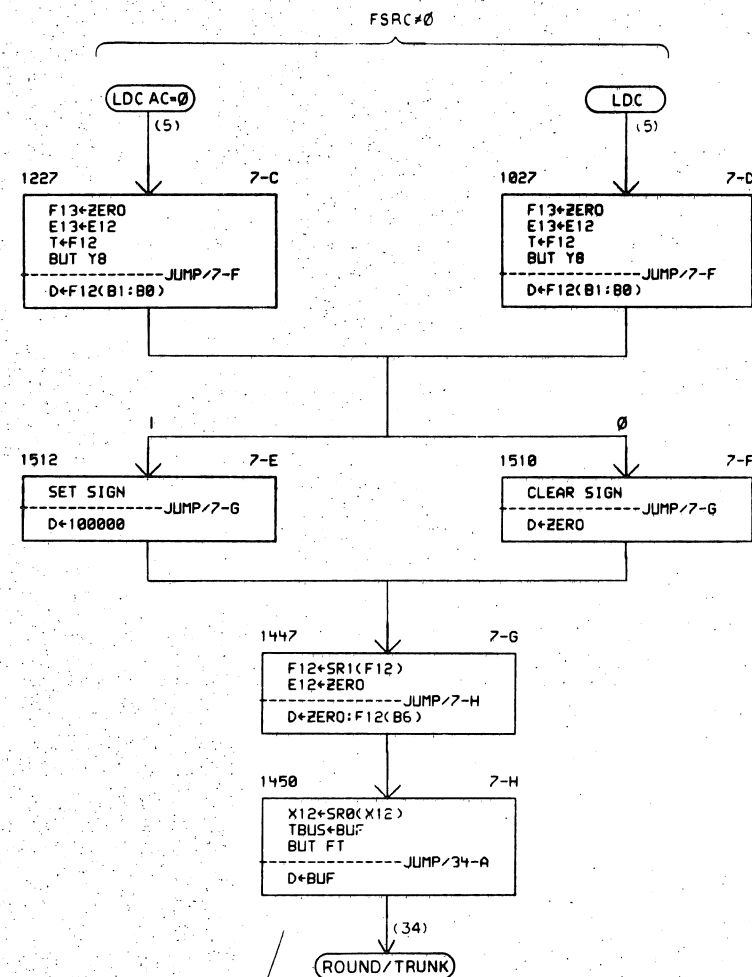
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
FPII-A FLOWS (6)	D FD	FPII-A-2	
SCALE	SHEET	OF 40	DIST.

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IN THIS CASE THE FSRC IS ZERO
SO NO ROUNDING IS NECESSARY



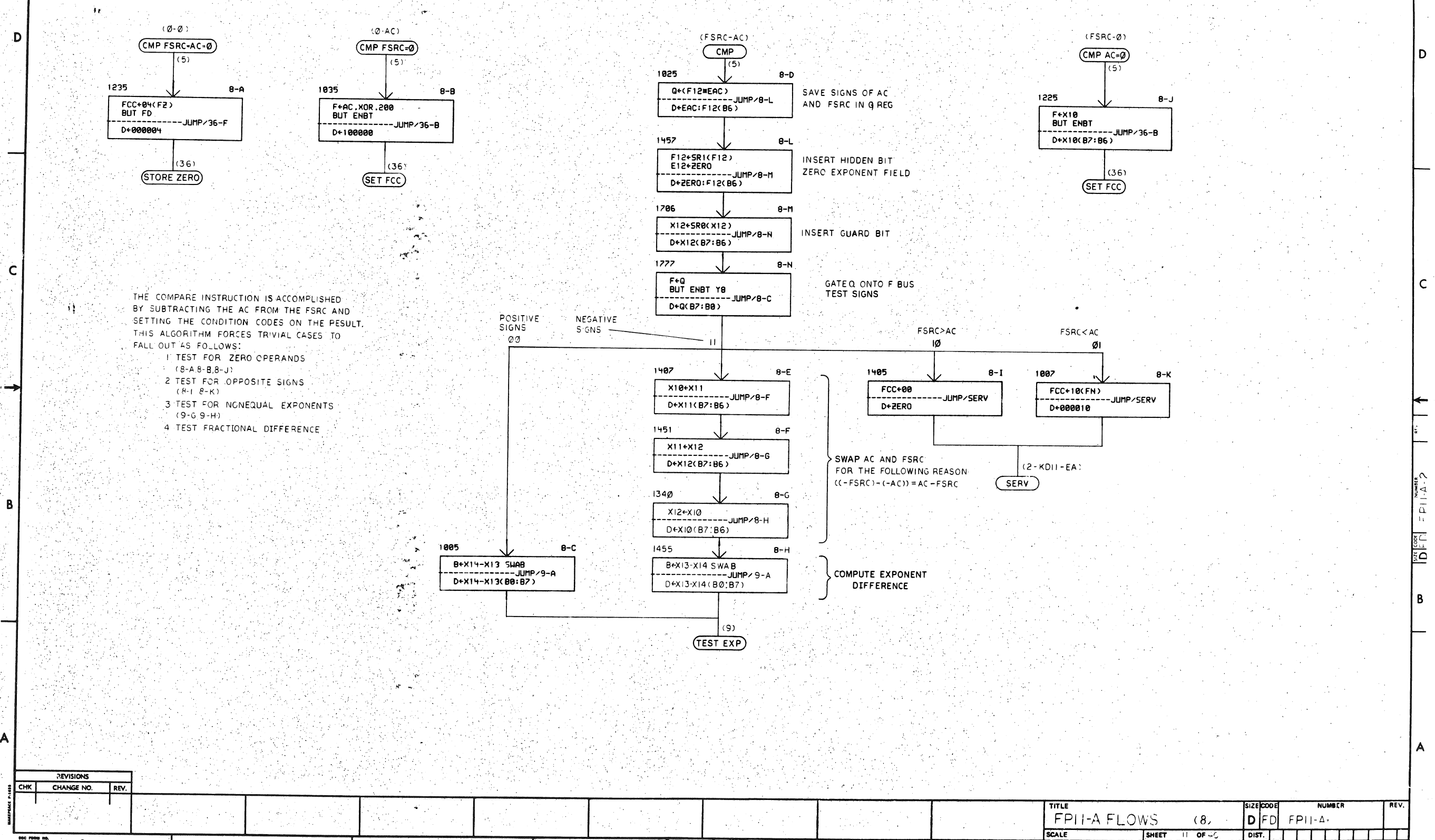
THIS ROUTINE SETS UP THE FSRC SO THAT
THE ROUND/TRUNK ROUTINE CAN BE USED
TO COMPLETE THE OPERATION

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-A FLOWS (7)		SIZE CODE D FD	NUMBER FPII-A-2	REV.
SCALE	SHEET 10 OF 40	DIST.		

114

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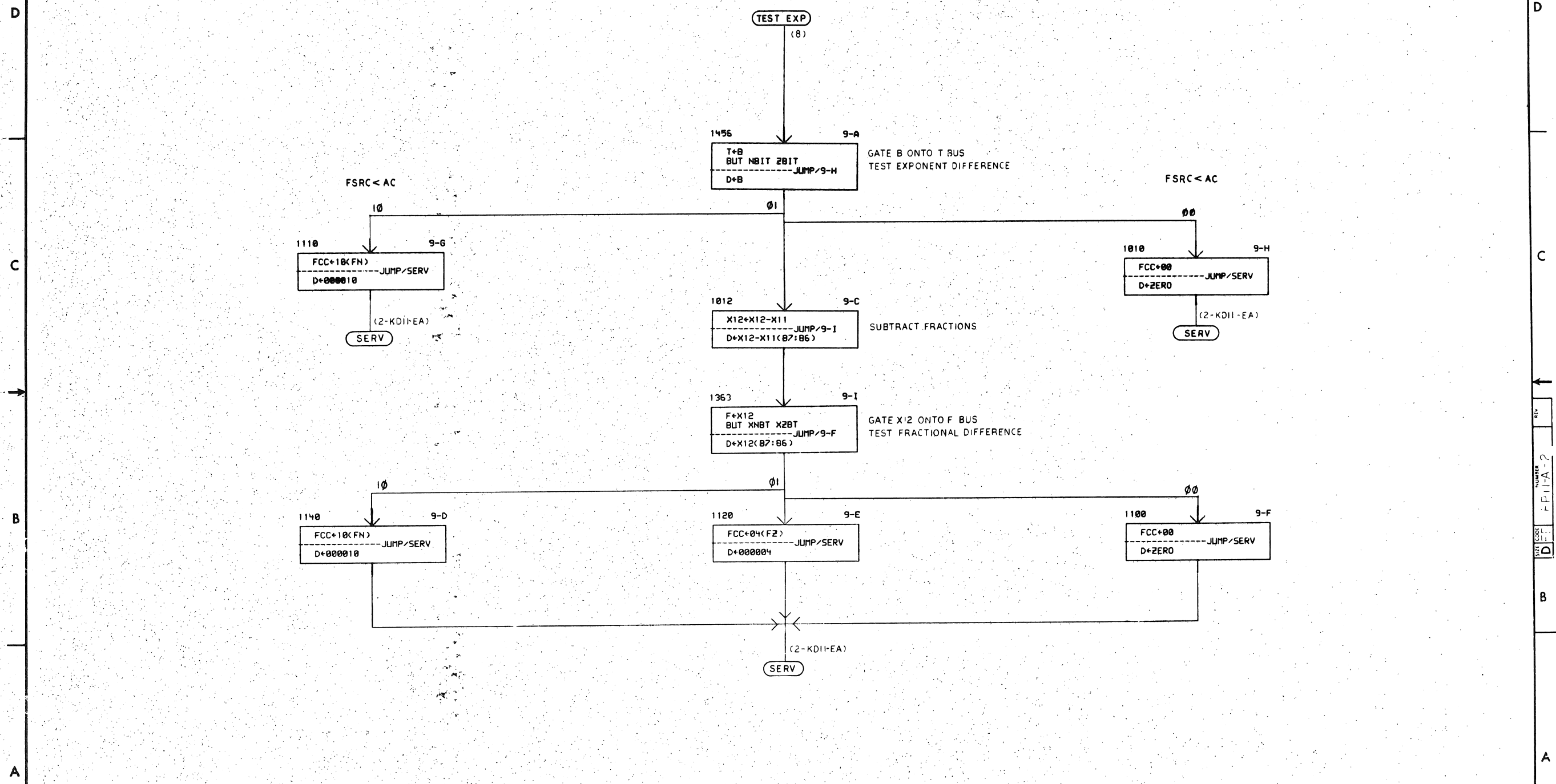


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (8)		D FD	FPII-A	
SCALE		SHEET	OF	DIST.
		11	OF 40	

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2-11-183
D FD FPII-A-2
2

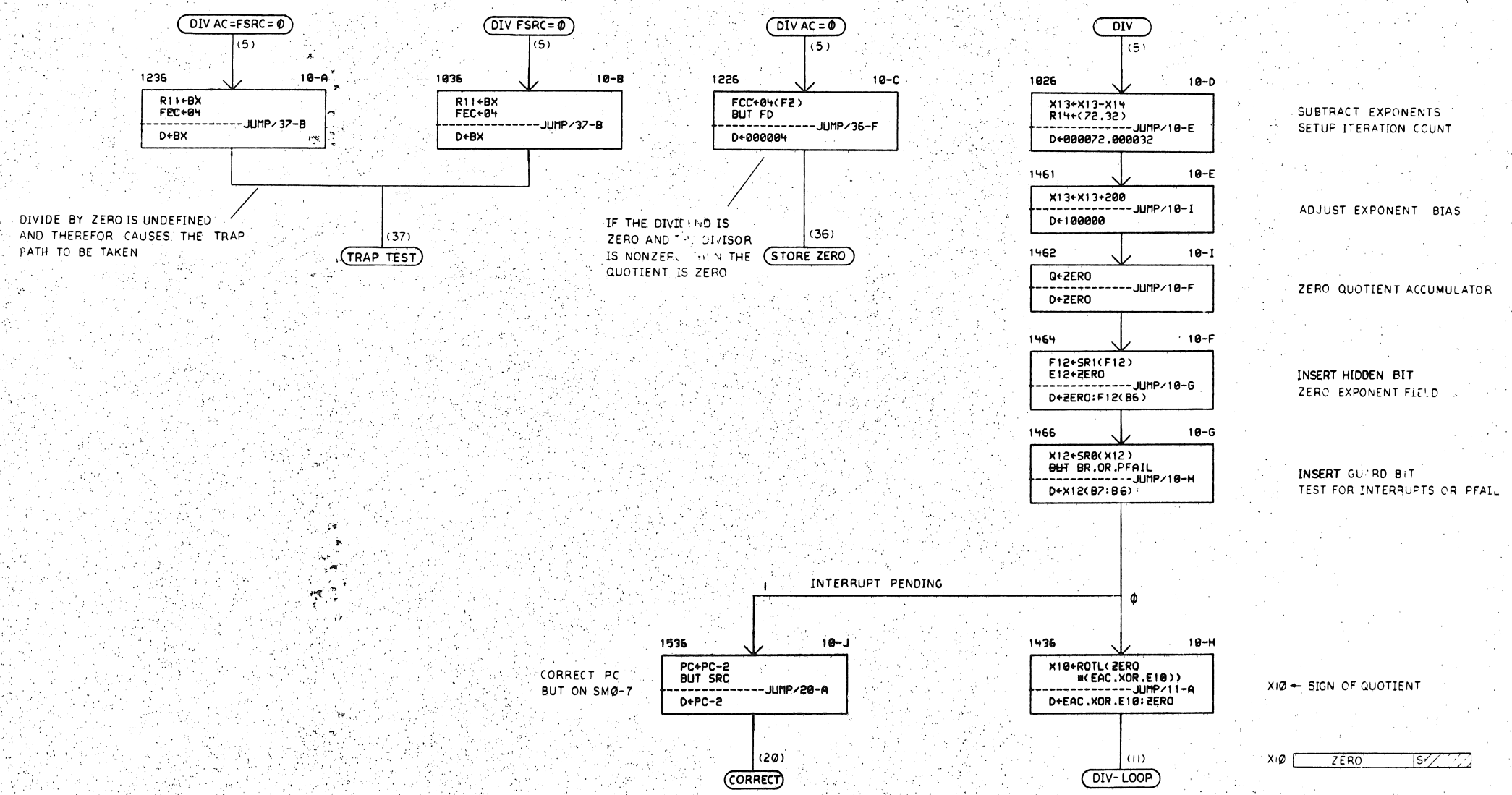


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
FPII-A FLOWS (9)		D	FD	FPII-A-		
SCALE	SHEET 2 OF 4		DIST.			

116

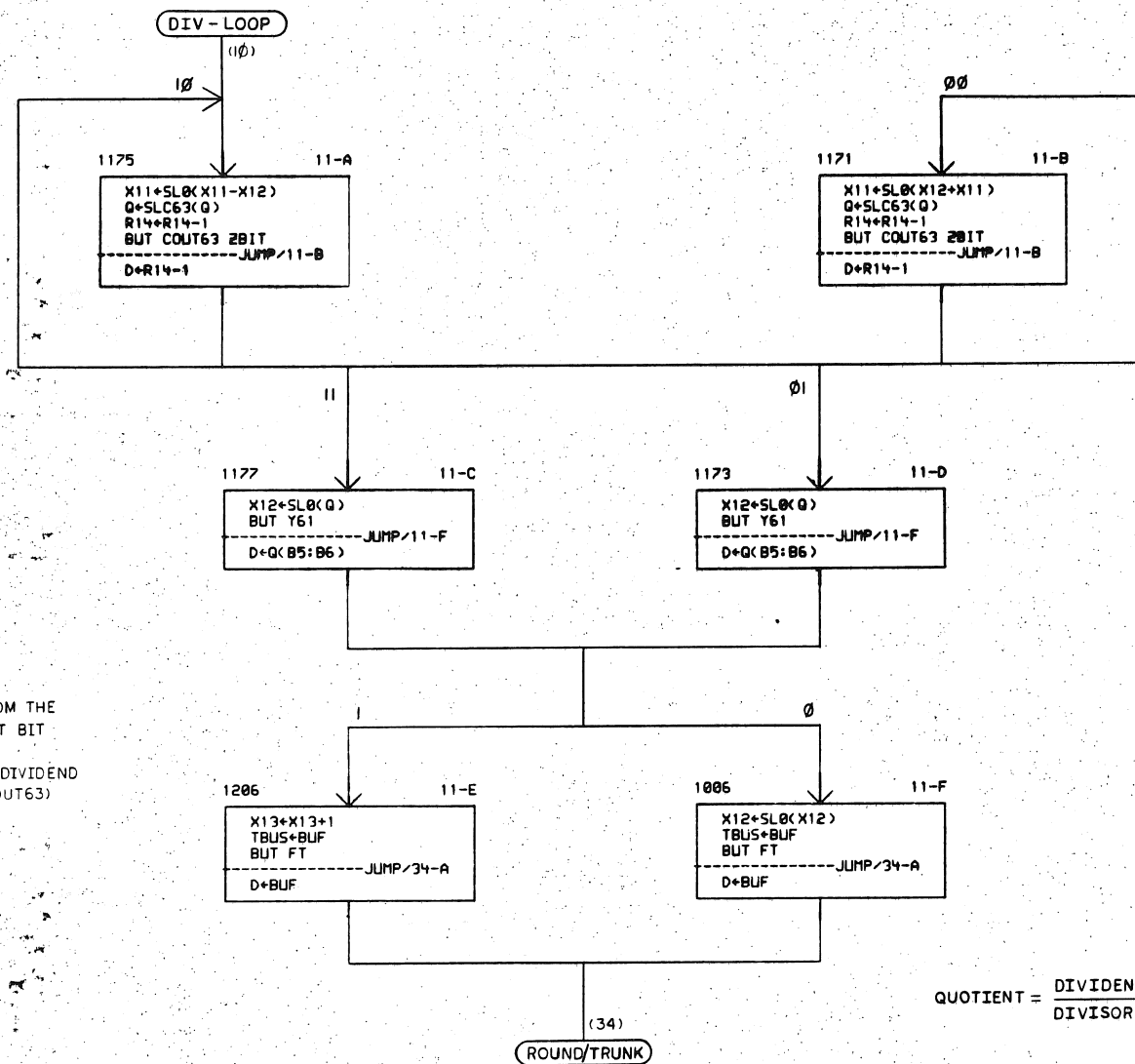
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7-1630	REVISIONS		
	CHK	CHANGE NO.	REV.

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- THIS IS A NONRESTORING DIVISION ALGORITHM IN WHICH:
1. THE DIVISOR IS SUBTRACTED FROM THE DIVIDEND IF THE LAST QUOTIENT BIT (COUT63) WAS ONE.
 2. THE DIVISOR IS ADDED TO THE DIVIDEND IF THE LAST QUOTIENT BIT (COUT63) WAS ZERO.

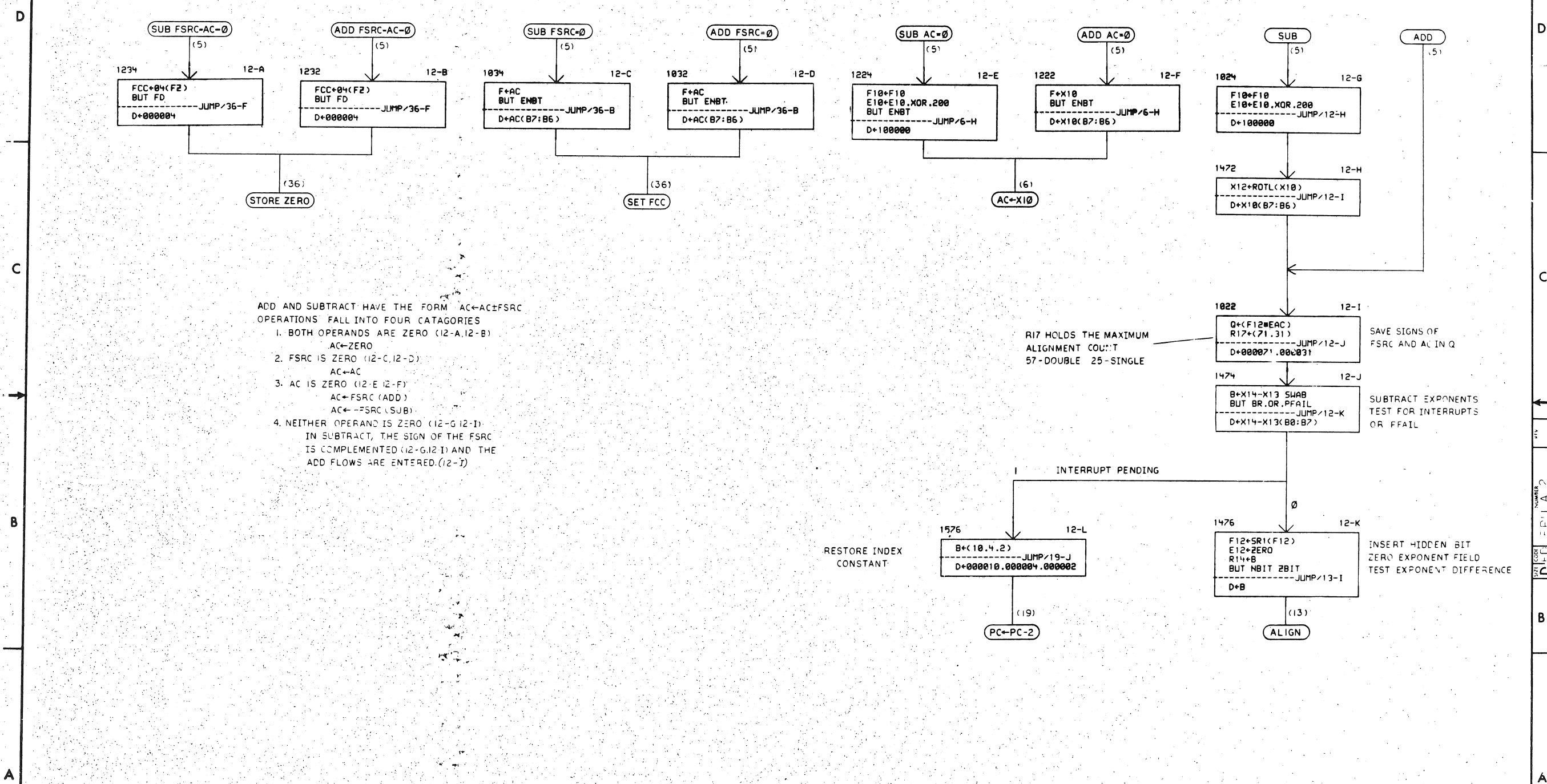


$$\text{QUOTIENT} = \frac{\text{DIVIDEND}}{\text{DIVISOR}} = \frac{\text{AC}}{\text{FSRC}} = \frac{\text{X11}}{\text{X12}}$$

REVISIONS		
CHK	CHANGE NO.	REV

TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (II)		D FD	FPII-A-	
SCALE	SHEET 14 OF 40	DIST.		

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ADD AND SUBTRACT HAVE THE FORM AC←AC±FSRC
OPERATIONS FALL INTO FOUR CATEGORIES
1. BOTH OPERANDS ARE ZERO (12-A,12-B)
AC←ZERO
2. FSRC IS ZERO (12-C,12-D)
AC←AC
3. AC IS ZERO (12-E,12-F)
AC←FSRC (ADD)
AC←-FSRC (SUB)
4. NEITHER OPERAND IS ZERO (12-G,12-I)
IN SUBTRACT, THE SIGN OF THE FSRC
IS COMPLEMENTED (12-G,12-I) AND THE
ADD FLOWS ARE ENTERED (12-J)

R17 HOLDS THE MAXIMUM
ALIGNMENT COUNT
57-DOUBLE 25-SINGLE

INTERRUPT PENDING

RESTORE INDEX
CONSTANT

SAVE SIGNS OF
FSRC AND AC IN Q

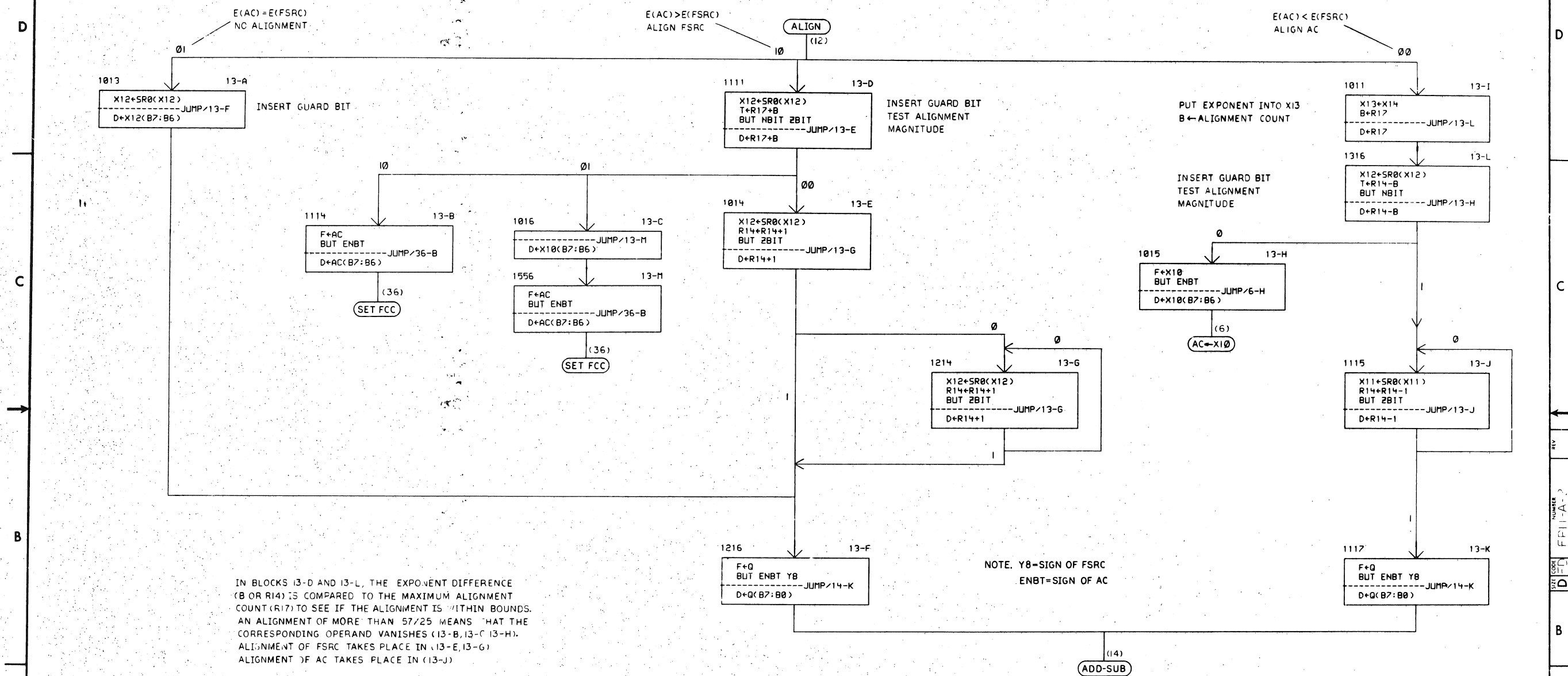
SUBTRACT EXPONENTS
TEST FOR INTERRUPTS
OR PFAIL

INSERT HIDDEN BIT
ZERO EXPONENT FIELD
TEST EXPONENT DIFFERENCE

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPU-A FLOWS (12)		D FD	FPU-A-2	
SCALE		SHEET	12 OF 40	

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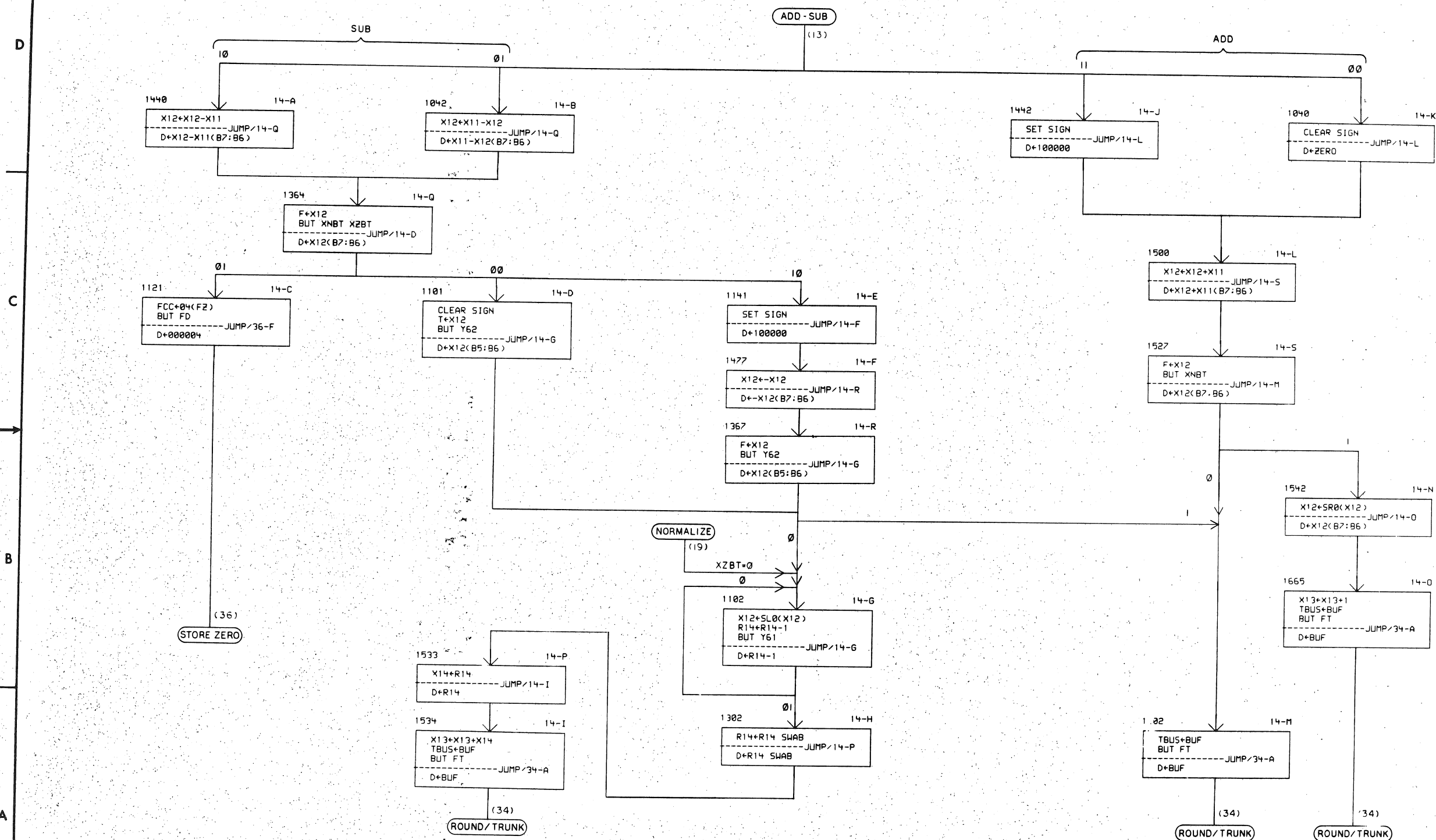


IN BLOCKS 13-D AND 13-L, THE EXPONENT DIFFERENCE (B OR R14) IS COMPARED TO THE MAXIMUM ALIGNMENT COUNT (R17) TO SEE IF THE ALIGNMENT IS WITHIN BOUNDS. AN ALIGNMENT OF MORE THAN 57/25 MEANS THAT THE CORRESPONDING OPERAND VANISHES (13-B, 13-C, 13-H). ALIGNMENT OF FSRC TAKES PLACE IN (13-E, 13-G) ALIGNMENT OF AC TAKES PLACE IN (13-J)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FP11-A FLOWS (13)		D FD	FP11-A-2	
SCALE	SHEET	12 OF 40		DIST.

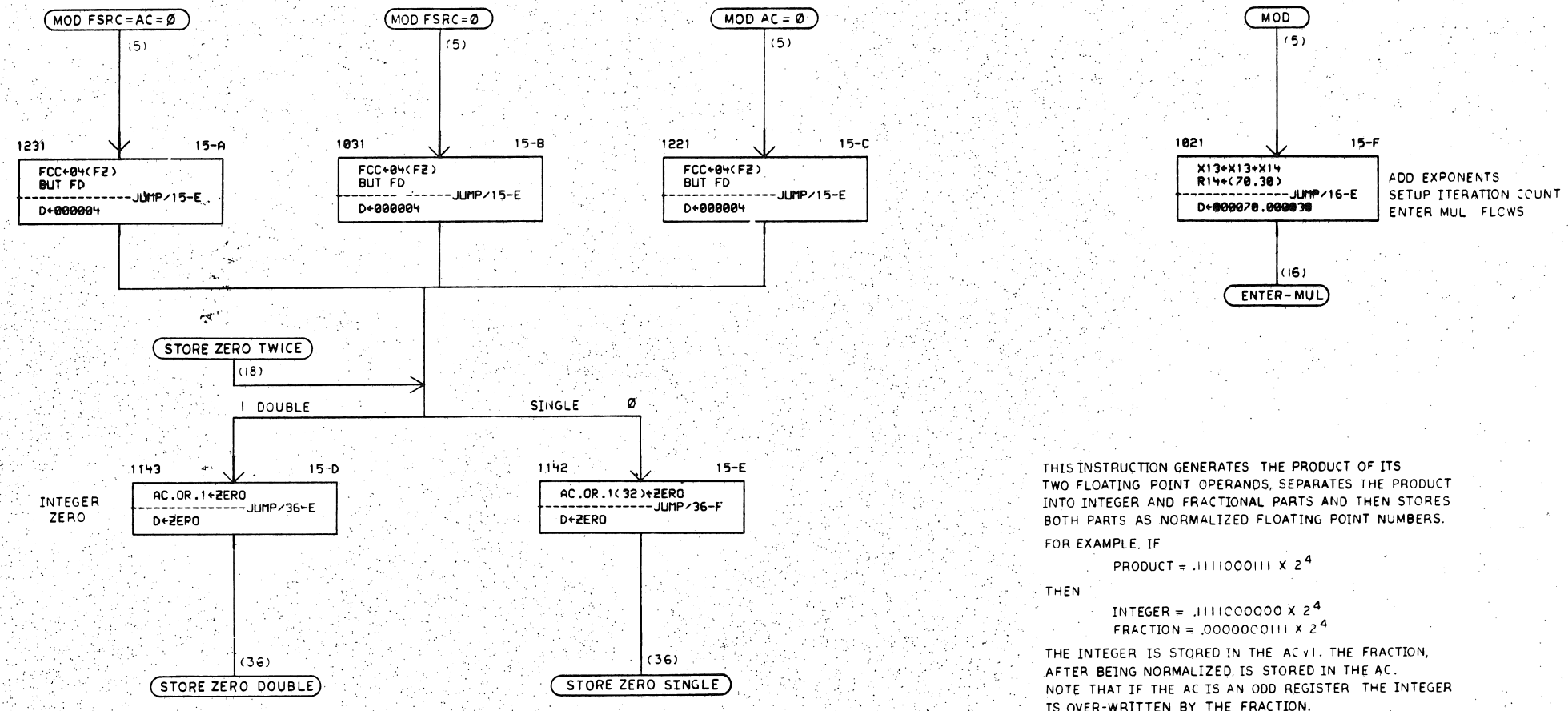
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (14)		D FD	FPII-A-2	
SCALE	SHEET	DIST.		
	17 OF 40			

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THIS INSTRUCTION GENERATES THE PRODUCT OF ITS TWO FLOATING POINT OPERANDS, SEPARATES THE PRODUCT INTO INTEGER AND FRACTIONAL PARTS AND THEN STORES BOTH PARTS AS NORMALIZED FLOATING POINT NUMBERS. FOR EXAMPLE, IF

PRODUCT = .1111000111 X 2⁴

THEN

INTEGER = .1111000000 X 2⁴

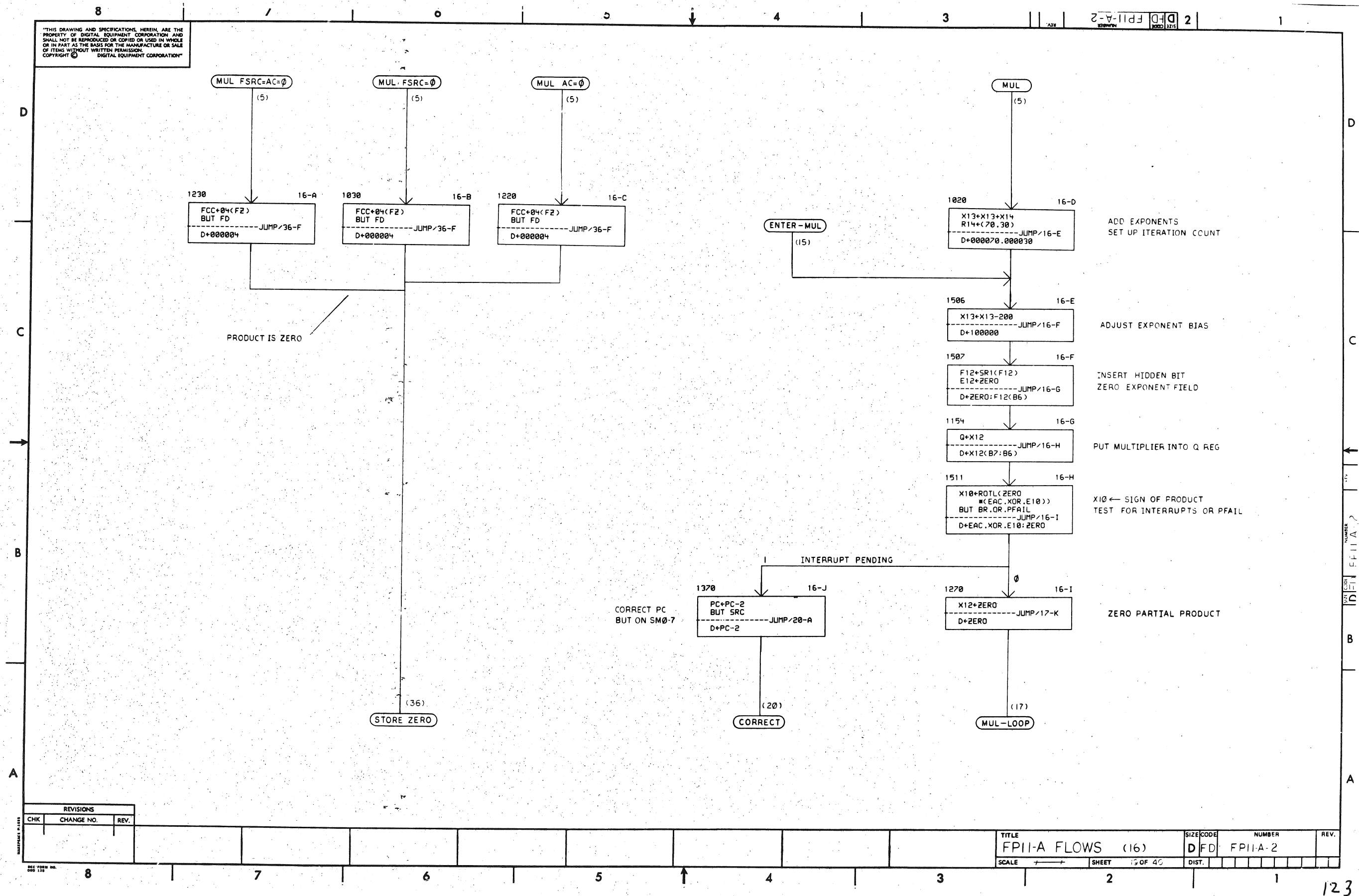
FRACTION = .0000000111 X 2⁴

THE INTEGER IS STORED IN THE AC. THE FRACTION, AFTER BEING NORMALIZED IS STORED IN THE AC. NOTE THAT IF THE AC IS AN ODD REGISTER THE INTEGER IS OVER-WRITTEN BY THE FRACTION.

IN THIS CASE, BOTH FRACTION AND INTEGER ARE ZERO (SINCE THE PRODUCT IS ZERO)

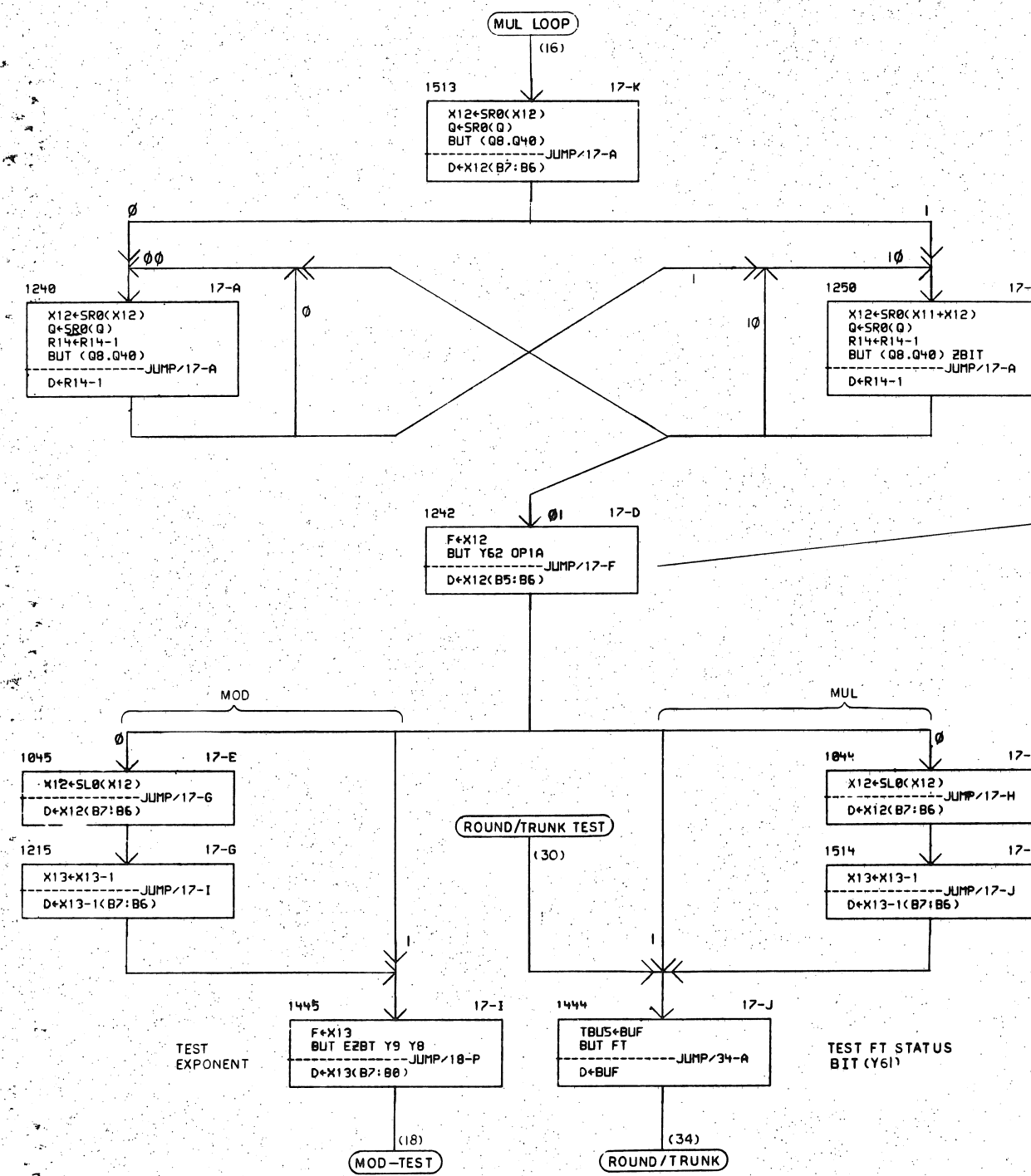
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FP11-A FLOWS (15)		D FD	FP11-A-2	
SCALE	SHEET	DIST.		



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REV. 2
SIZE CODE
D F D
NUMBER
FPII-A-2



ALL SHIFTING IS DONE
WHEN WE DROP OUT OF
THIS LOOP LEFT GARD
BIT IS ZERO

TEST MSB OF PRODUCT TO
SEE IF PRE-NORMTLIZATION
IS NESCESSARY. ALSO BREAK
OUT MUL AND MOD INTO SEPARATE
FLOWS.

SHIFT PRODUCT LEFT ONE PLACE

DECREMENT EXPONENT

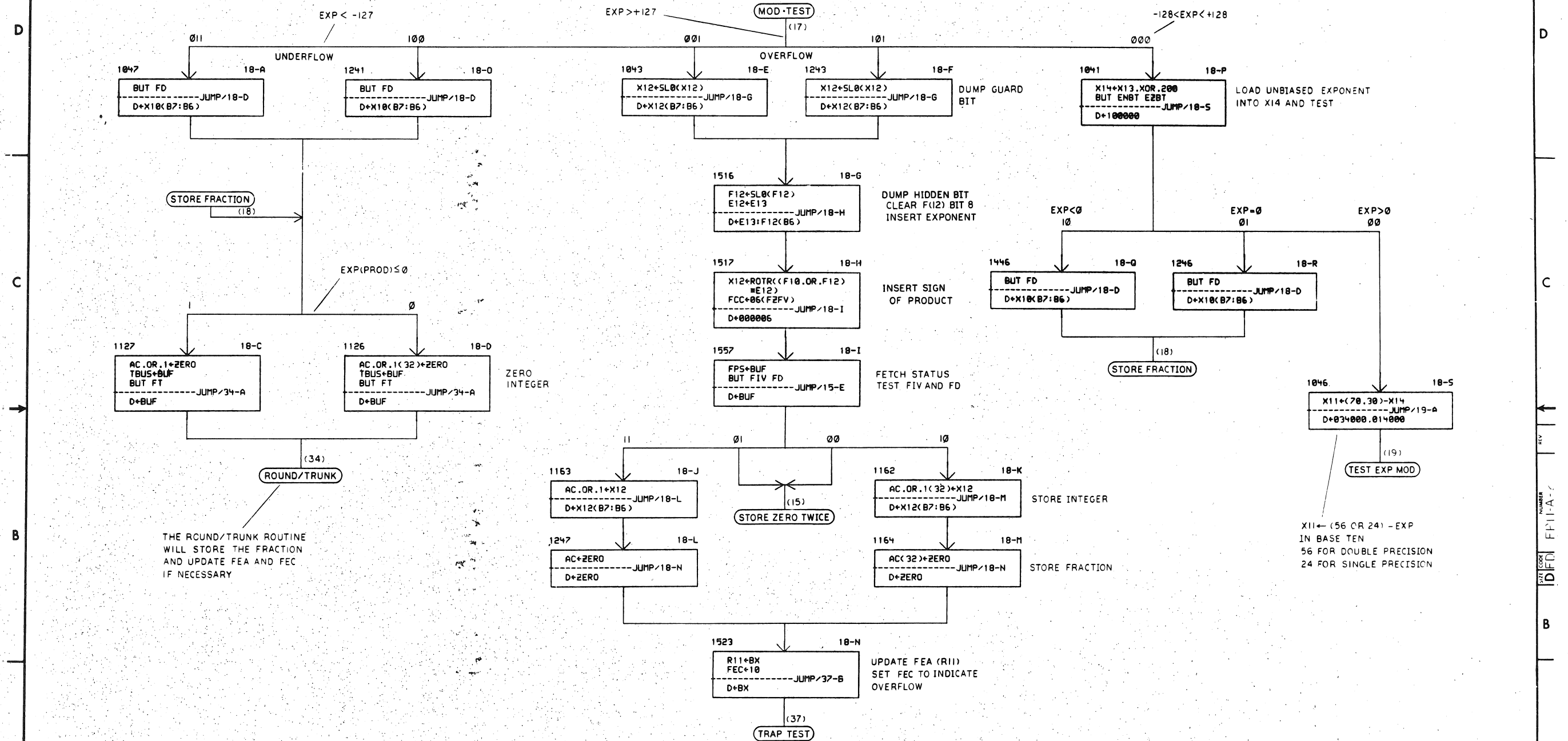
TEST
EXPONENT

TEST FT STATUS
BIT (Y61)

REVISIONS		
CHK	CHANGE NO.	REV.

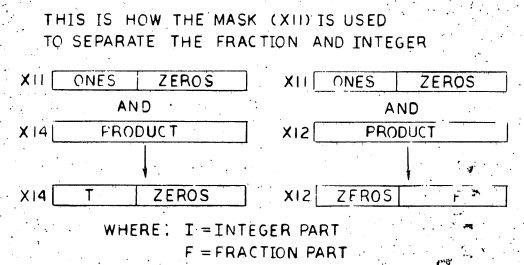
TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (17)		D F D	FPII-A-2	
SCALE		SHEET	20 OF 40	DIST.

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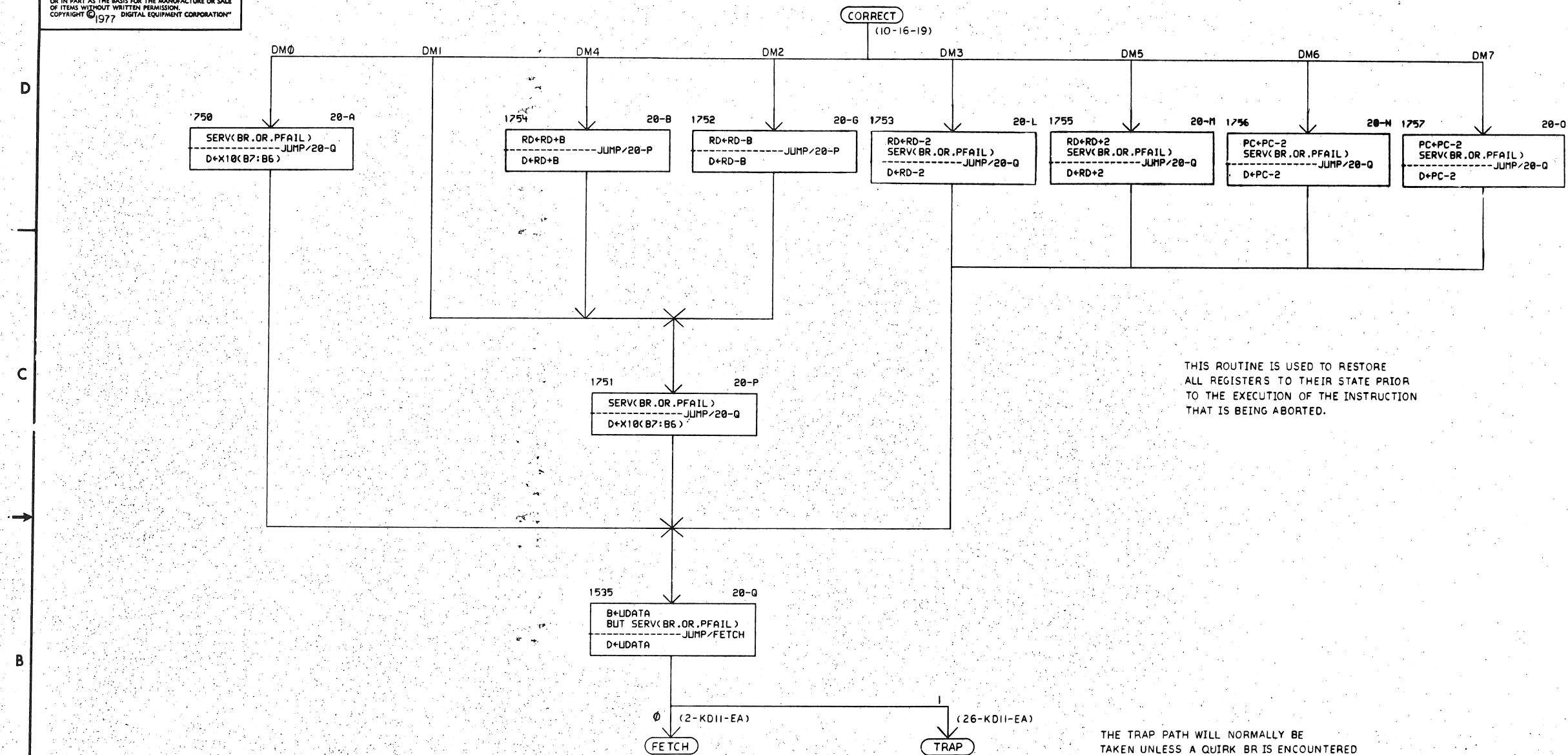
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/SCALE		NUMBER		REV.
FPII-A FLOWS (18)		D FD		FPII-A-2		
SCALE		SHEET 21 OF 40		DIST.		



TITLE FPII-A FLOWS (19)		SIZE CODE D FD	NUMBER FPII-A-2		REV.
SCALE 1" = 10'	SHEET 22 OF 40	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

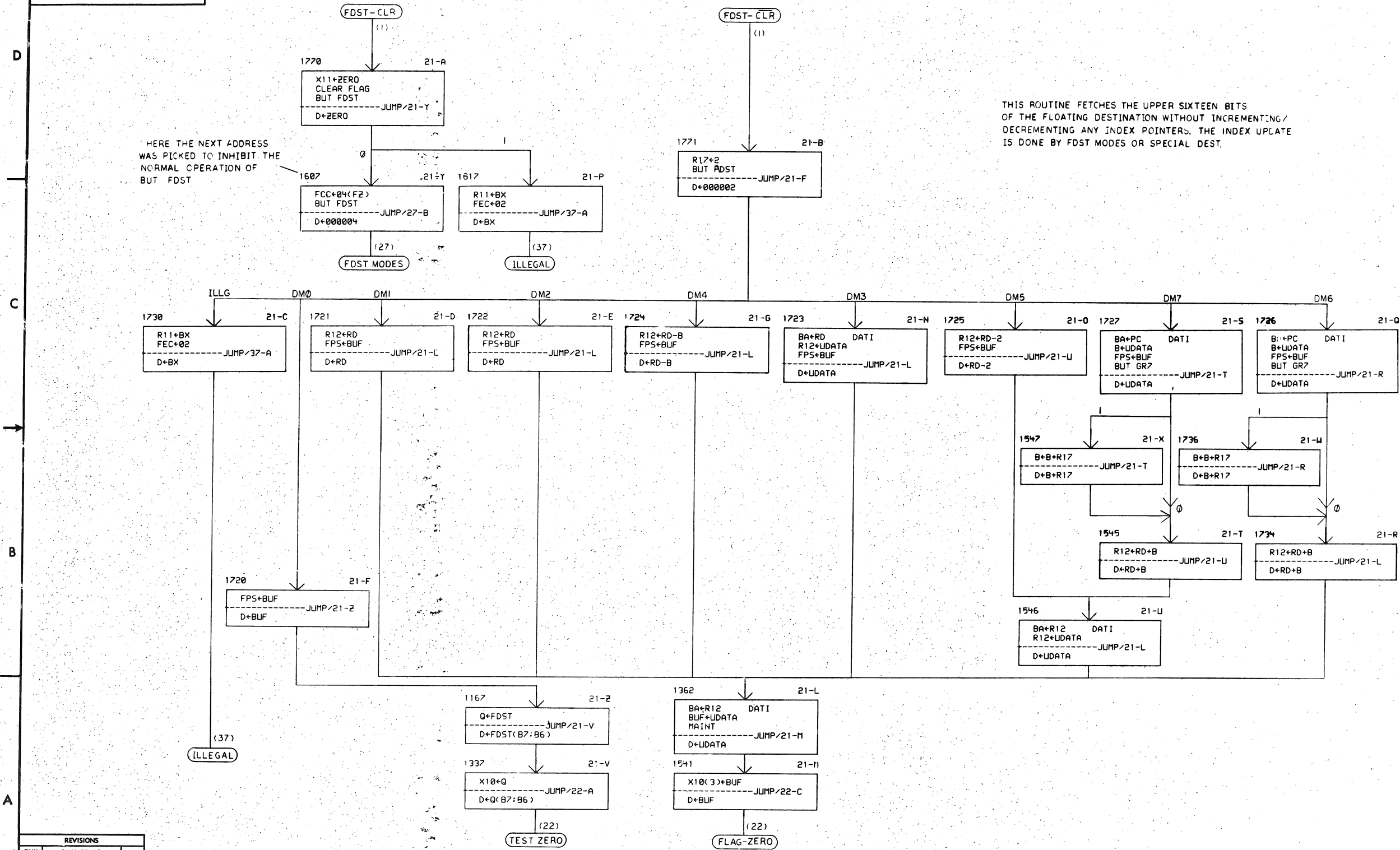
TITLE		SIZE CODE	NUMBER	REV.
FPII A FLOWS (20)		D FD	FPII-A-2	
SCALE	SHEET 23 OF 40	DIST.		

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REV. 2
D FII-A-2

HERE THE NEXT ADDRESS
WAS PICKED TO INHIBIT THE
NORMAL OPERATION OF
BUT FDST

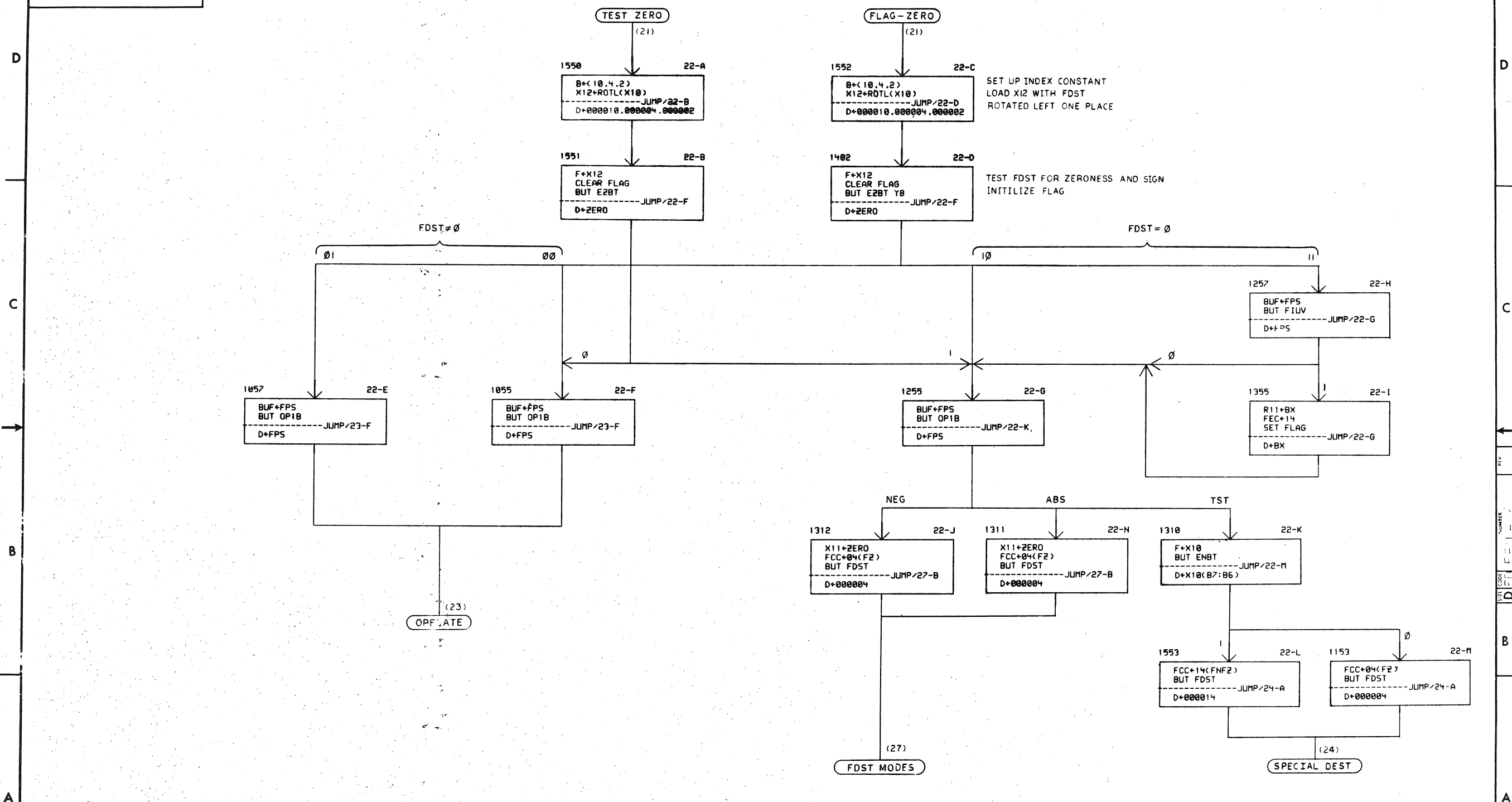
THIS ROUTINE FETCHES THE UPPER SIXTEEN BITS
OF THE FLOATING DESTINATION WITHOUT INCREMENTING/
DECREMENTING ANY INDEX POINTERS. THE INDEX UPDATE
IS DONE BY FDST MODES OR SPECIAL DEST.



REVISIONS		
CHK	CHANGE NO.	REV.

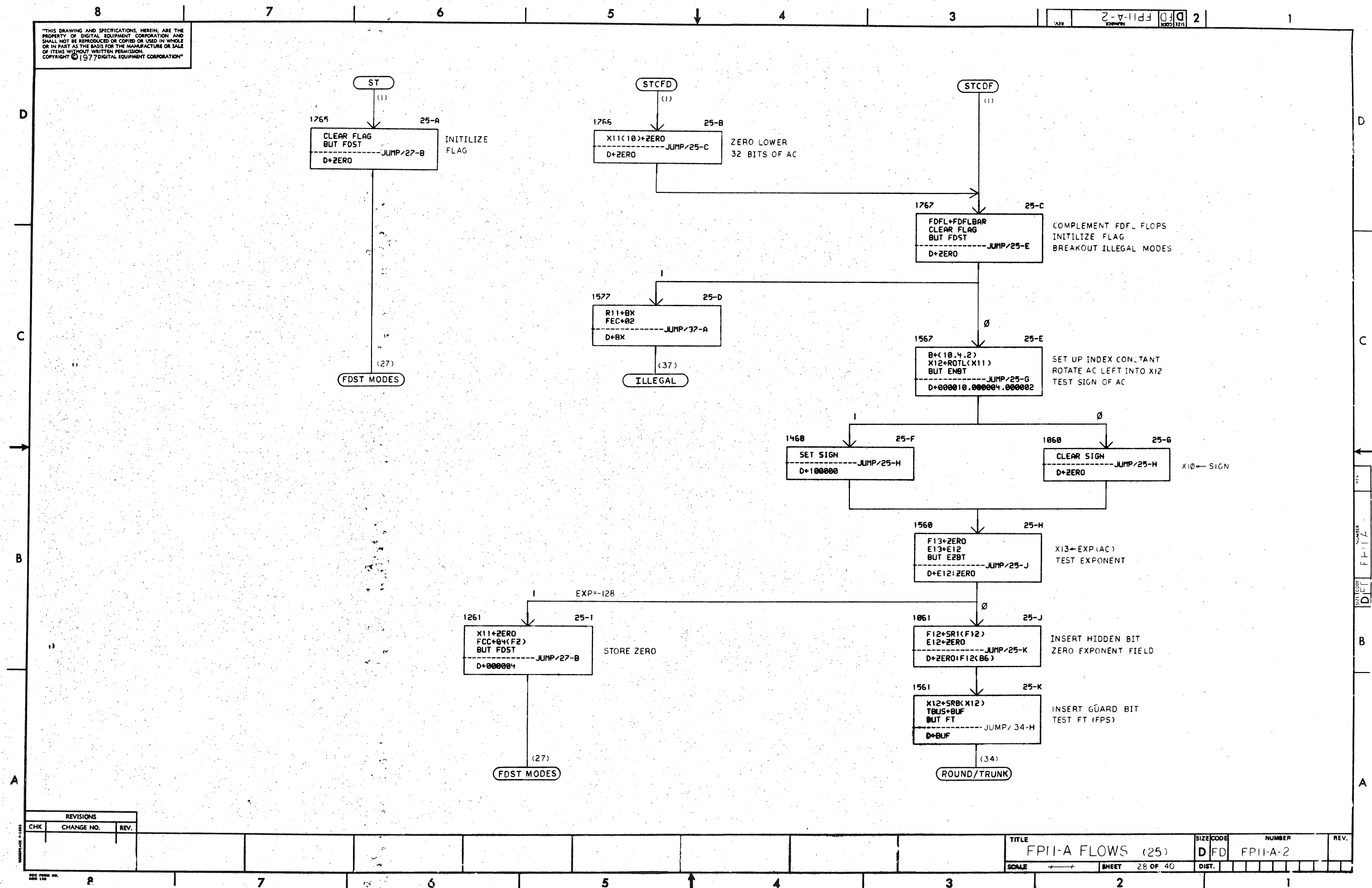
TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (21)		D FII	FPII-A-2	
SCALE	SHEET	DIST.		
	24 OF 40			

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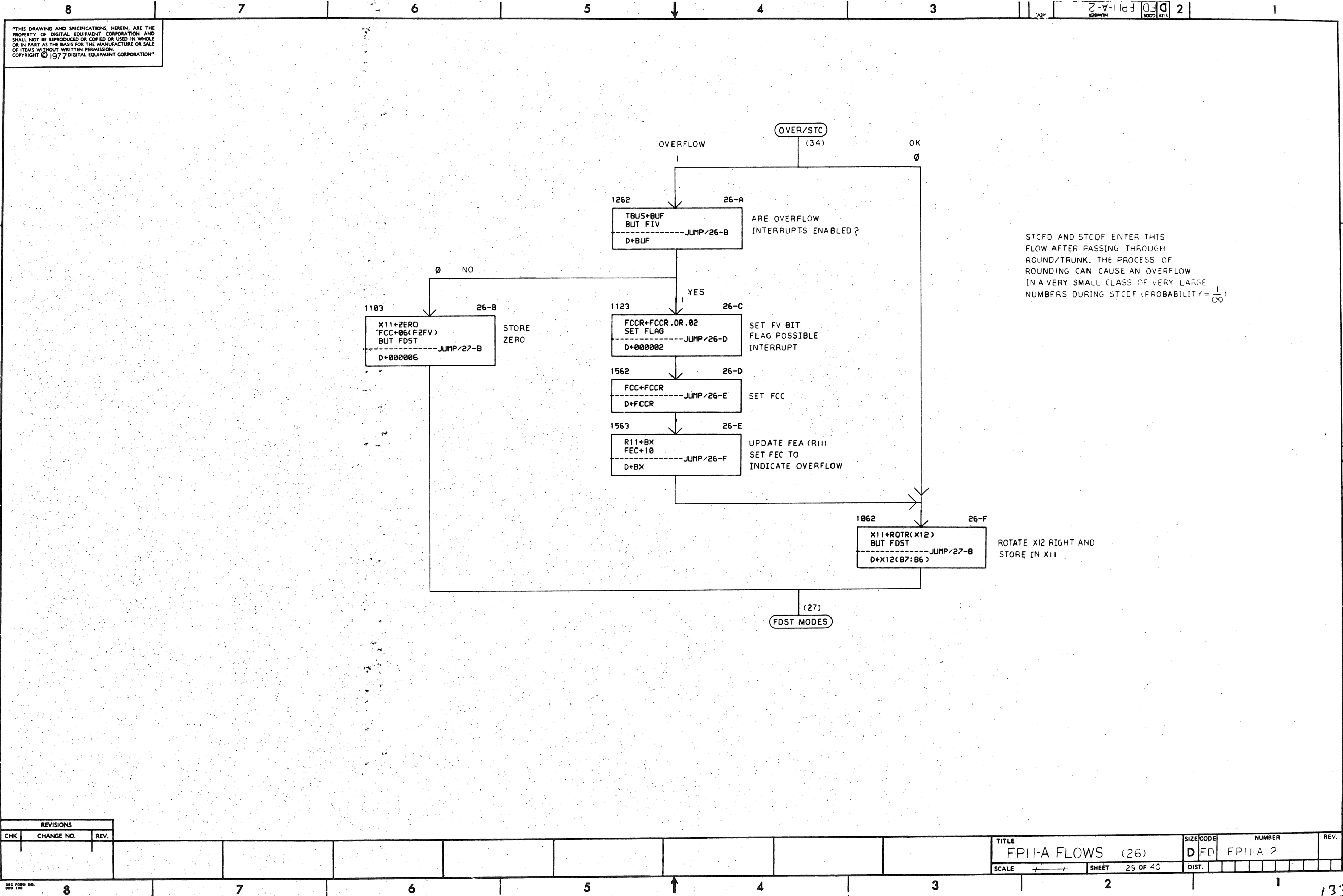


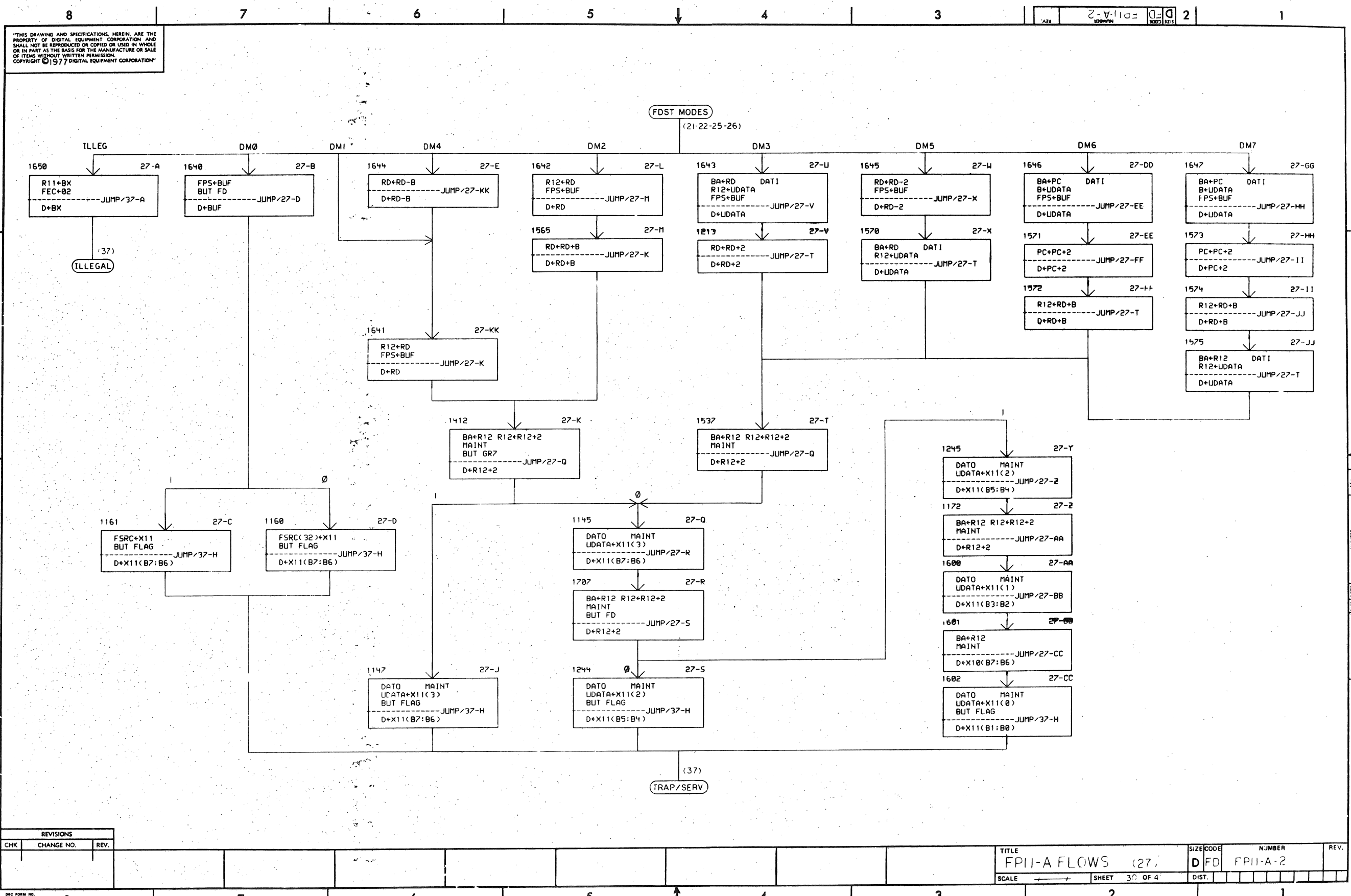
REVISIONS		
CHK	CHANGE NO.	REV.

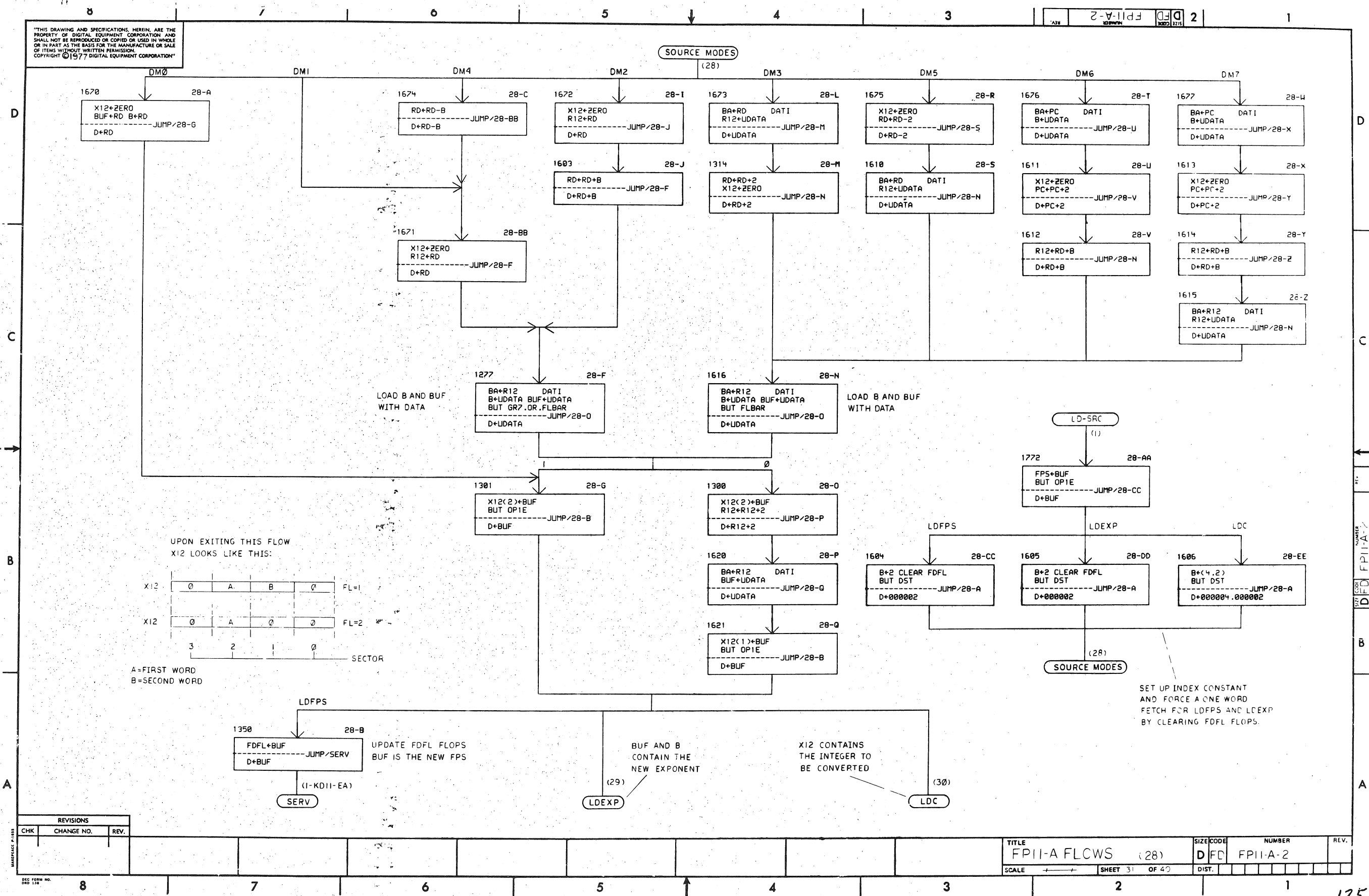
TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (22)		D FD	FPII-A-2	
SCALE	SHEET	DIST.		
	25 OF 40			

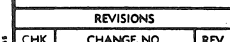


132

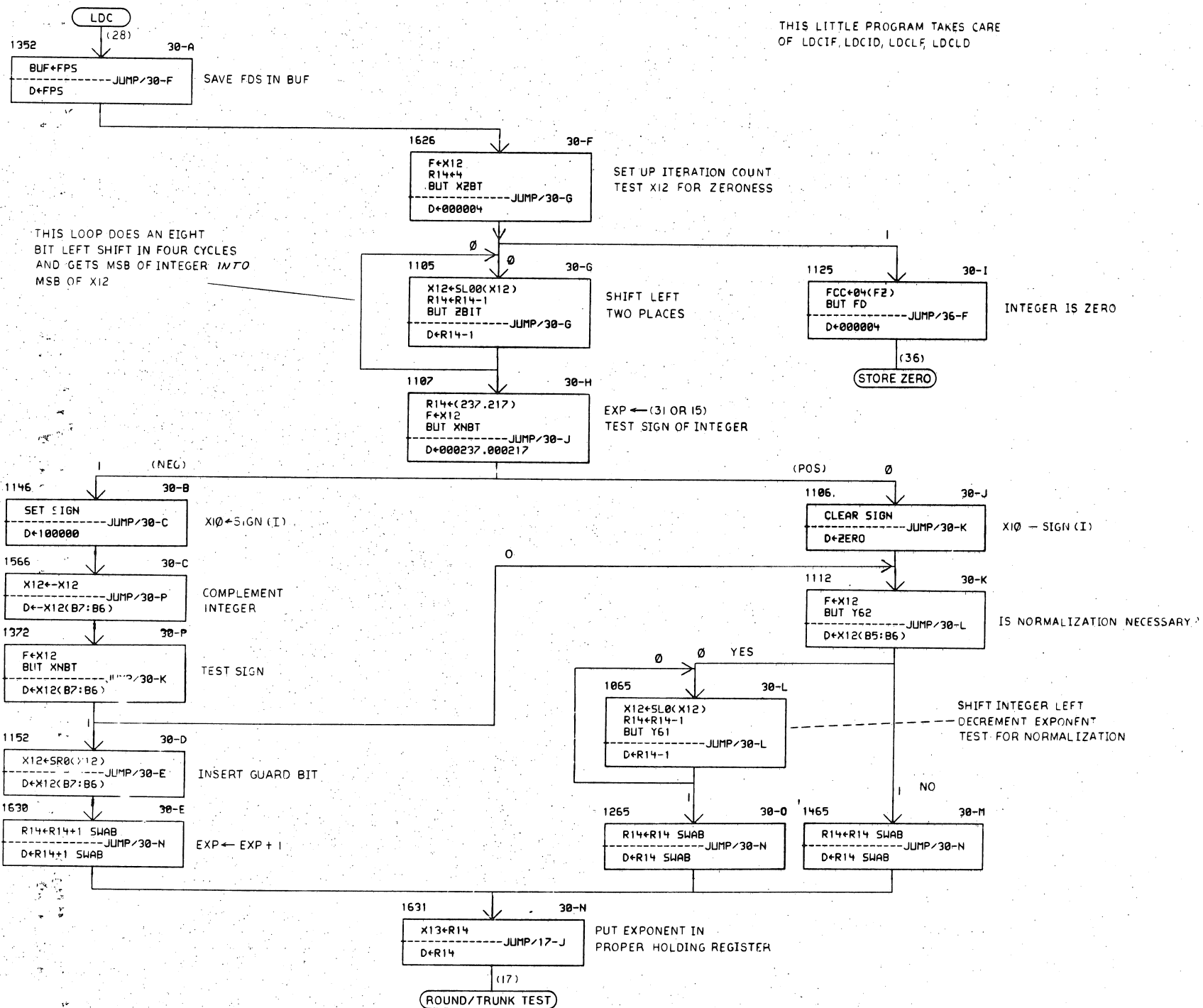








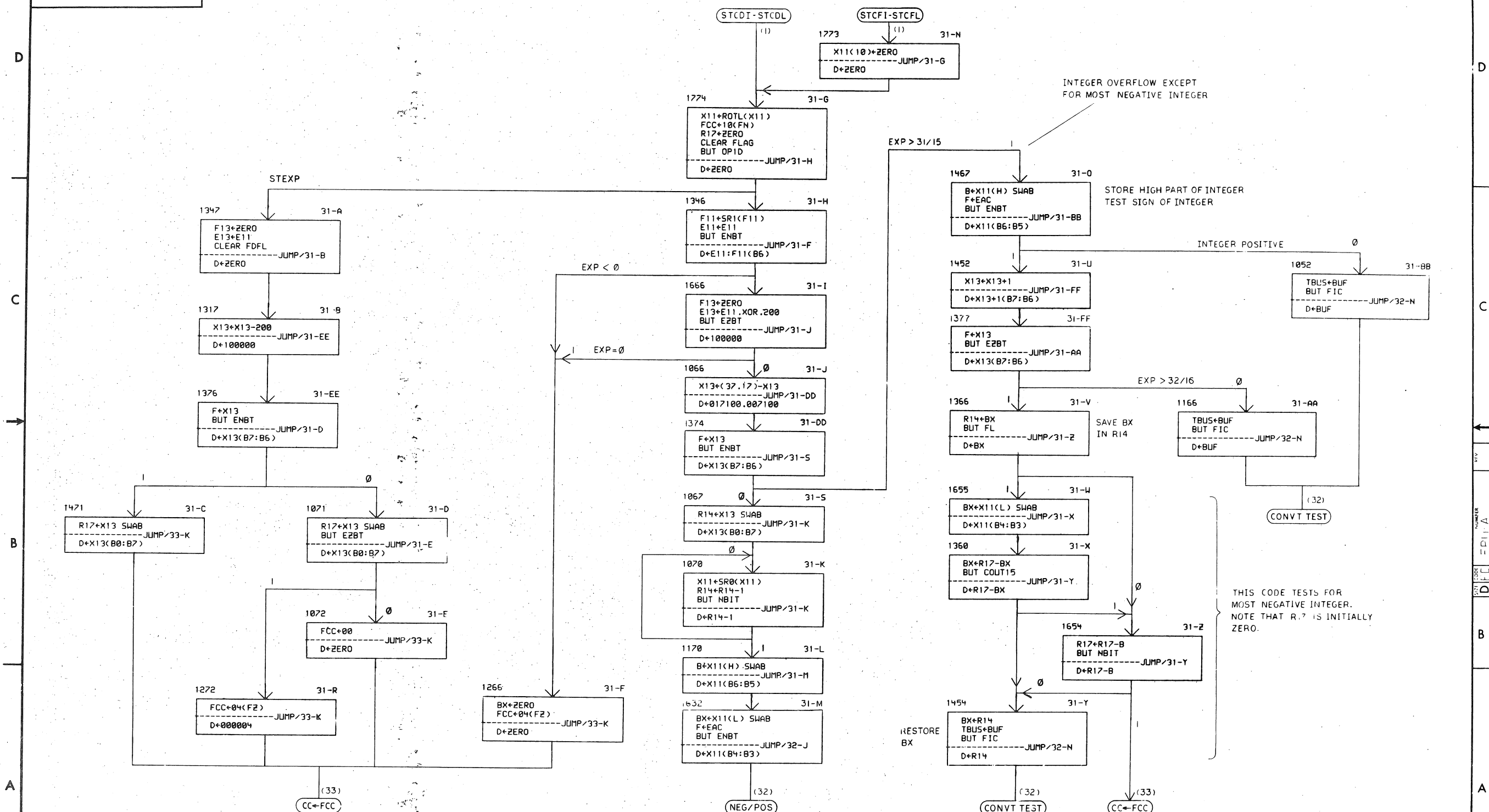
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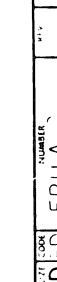


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (30)		D FD	FPII-A-2	
SCALE	SHEET 37 OF 40	DIST.		

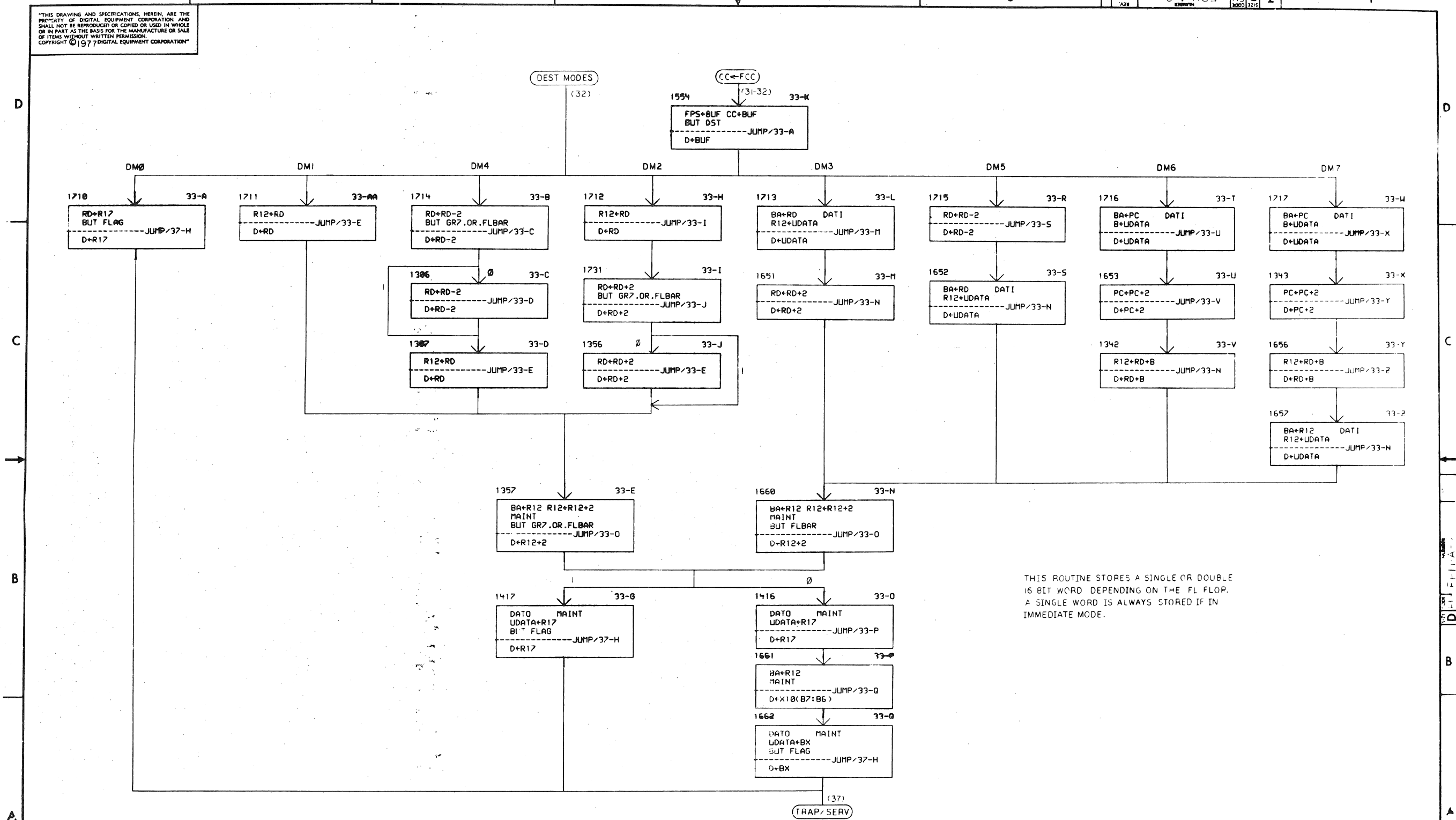
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TITLE FPII-A FLOWS (32)		SIZE D	CODE F	NUMBER FPII-A-2		REV
SCALE 1" = 1'	SHEET 35 OF 40	DIST.				

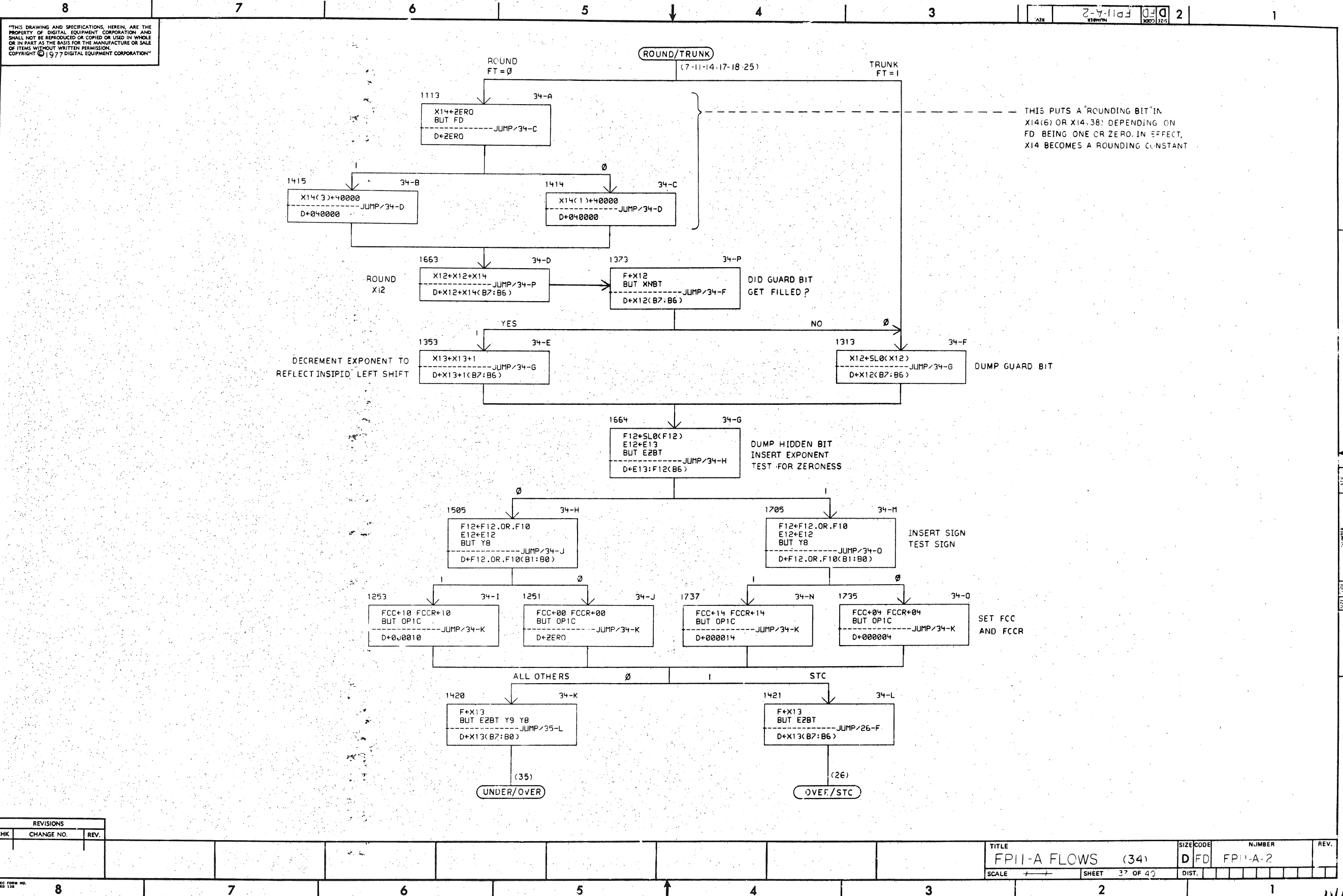
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THIS ROUTINE STORES A SINGLE OR DOUBLE 16 BIT WORD DEPENDING ON THE FL FLOP. A SINGLE WORD IS ALWAYS STORED IF IN IMMEDIATE MODE.

REVISIONS		
CHK	CHANGE NO.	REV.

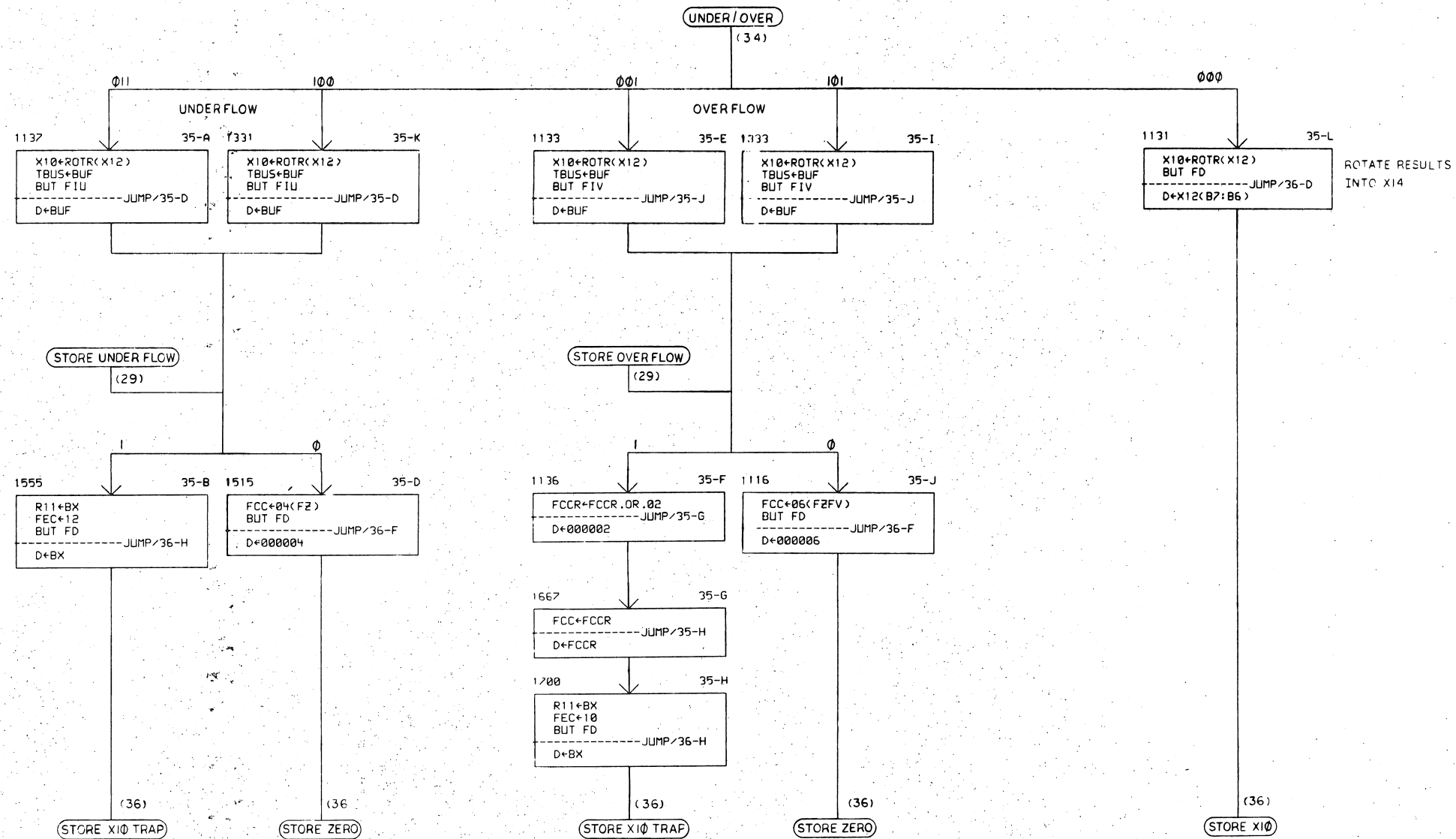
TITLE		SIZE CODE	NUMBER	REV
FPII-A FLCS (33)		D F D	FPII-A 2	
SCALE	SHEET	DIST.		
	36 OF 40			



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
FPII-A FLOWS (34)		D FD	FPII-A-2	
SCALE	SHEET	DIST.		
	37 OF 42			

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REVISIONS		
CHK	CHANGE NO.	REV.

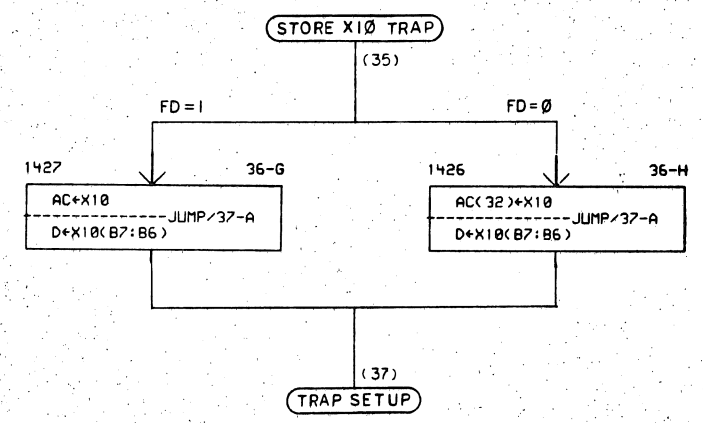
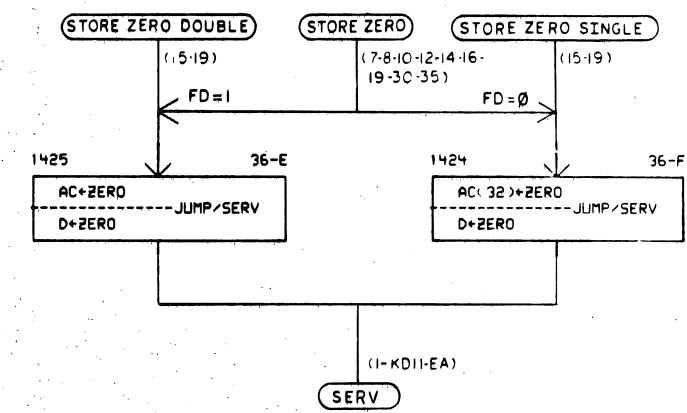
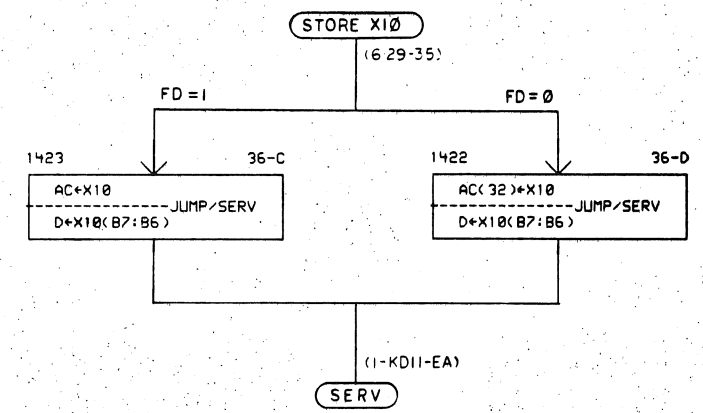
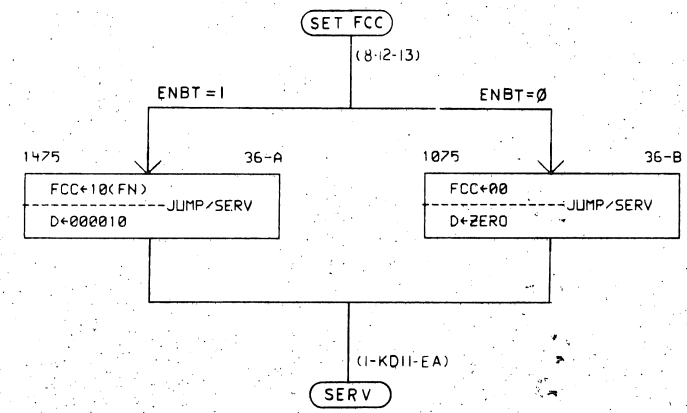
TITLE			SIZE CODE		NUMBER				REV.
FPII-A FLOWS (35)			D FD		FPII A 2				
SCALE			SHEET 38 OF 40		DIST.				

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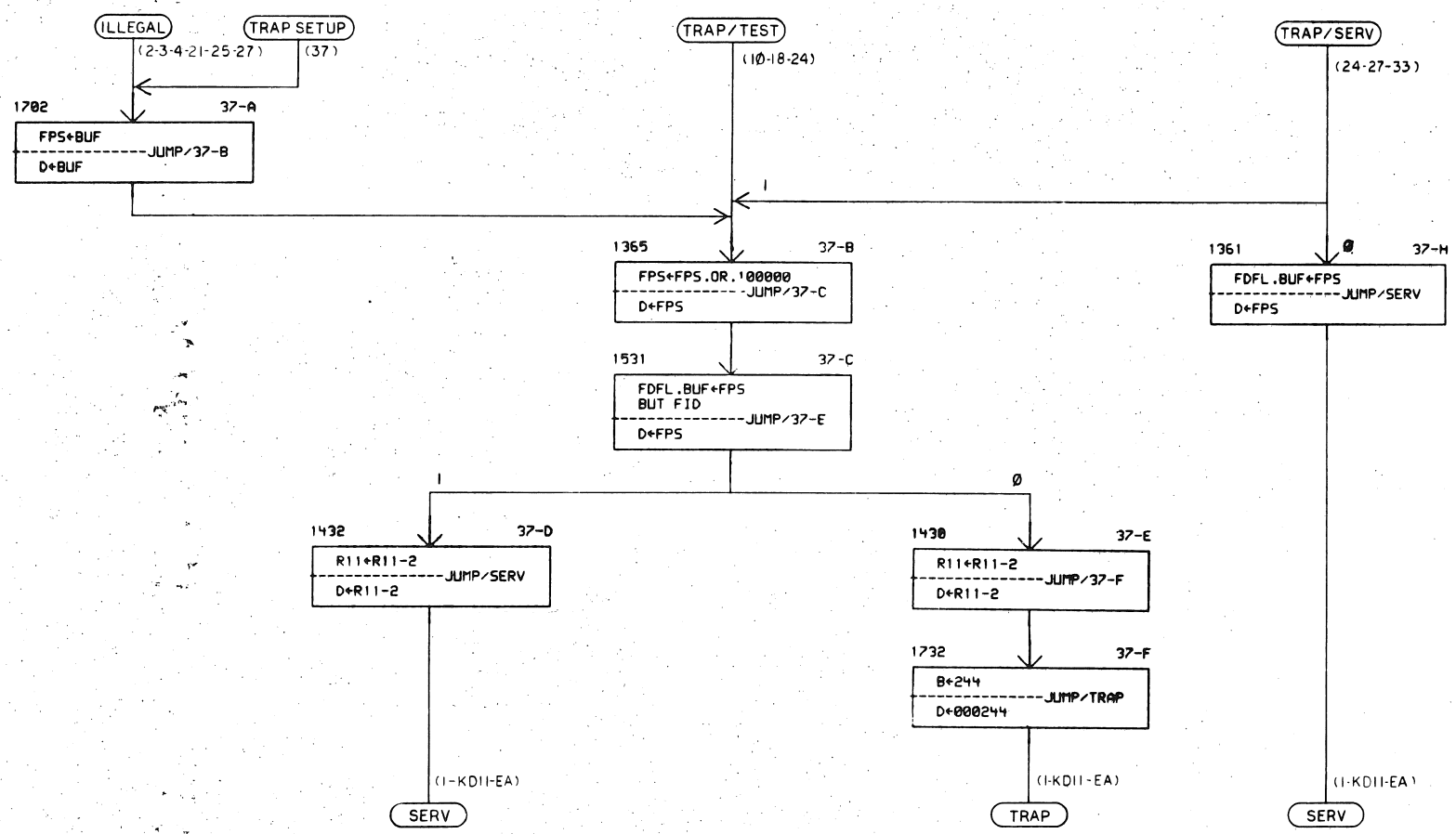
D
C
B
A

D
C
B
A



REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-A FLOWS (37)		SIZE CODE D FD	NUMBER FPII-A-2	REV.
SCALE 1"=1'	SHEET 40 OF 40	DIST.	1	