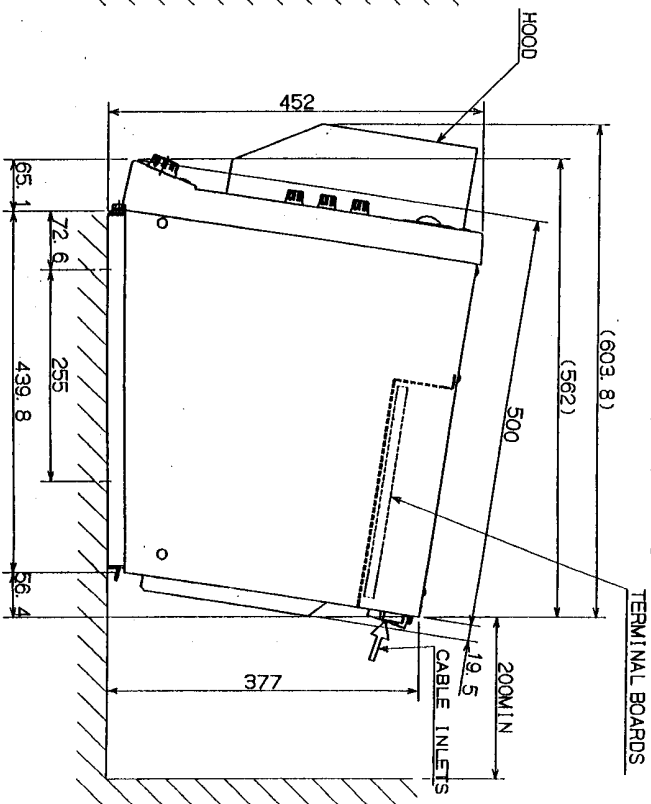
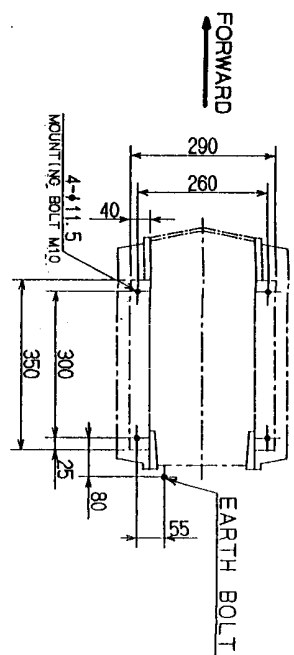
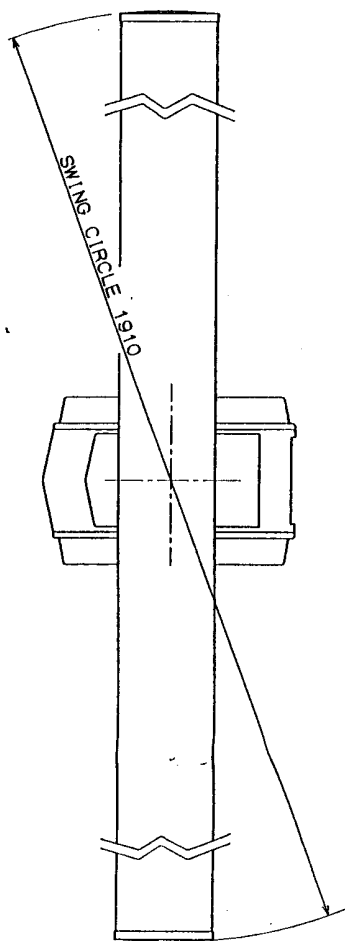




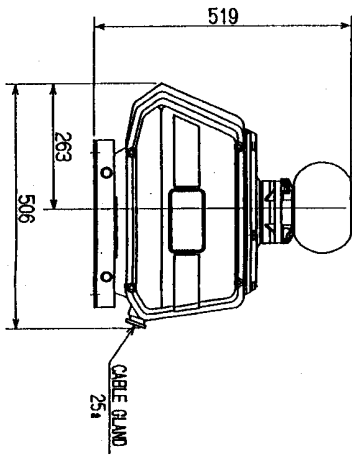
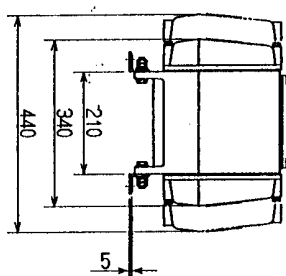
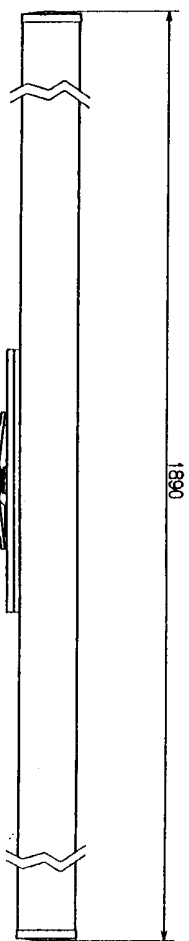
UNLESS OTHERWISE SPECIFIED		TOLERANCE
DIMENSION	SPECIFIED	TOLERANCE
0 TO 30	± 1	± 0.5
OVER 30 TO 120	± 1.5	± 1
OVER 120 TO 400	± 2.5	± 2
OVER 400 TO 1000	± 4	± 3
OVER 1000 TO 2000	± 6	± 5
OVER 2000 TO 3000	± 8	± 7

WEIGHT APPROX. 34 kg

APPROVED	DATE	NCD-3780 DISPLAY UNIT	TITLE	SHEET NO.
M. Moriokubo	19 MAY 98			
CHECKED	DESIGNED	OUTLINE DRAWING		
M. Moriokubo	R. Funakoshi			
A3		DRAWING NO.		
JRC Japan Radio Co., Ltd.		SCNCD5106		



MOUNTING DIMENSIONS



WEIGHT APPROX. 38 kg

Dimension mm

UNLESS OTHERWISE SPECIFIED		
DIMENSION SPECIFIED	TOLERANCE	TOLERANCE
0 TO 30	± 1	± 0.5
OVER 30 TO 120	± 1.5	
OVER 120 TO 400	± 2.5	± 1
OVER 400 TO 1000	± 4	± 2
OVER 1000 TO 2000	± 6	
OVER 2000 TO 3000	± 8	± 3

3rd Angle System Dimension mm

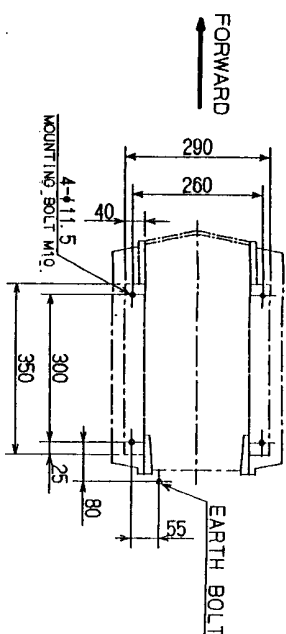
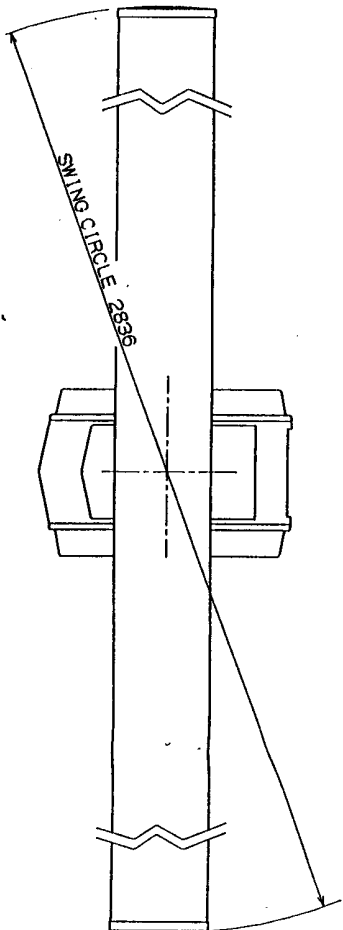
3

6

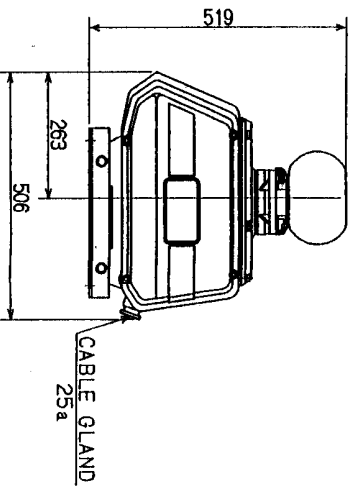
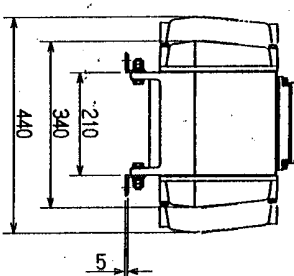
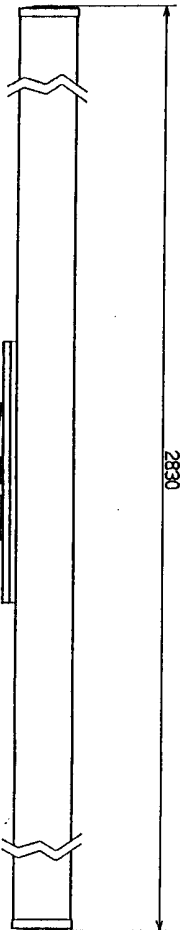
7

8

Japan Radio Co., Ltd.		SCNKE5136	
CHECKED H. Kobayashi	APPROVED H. Kobayashi DESIGNED E. Koga	DATE 08 JUN '98	TITLE SCANNER UNIT
A3		SCALE 1:10	SHEET NO. 1/1
OUTLINE DRAWING		DRAWING NO.	



MOUNTING DIMENSIONS



WEIGHT APPROX. 43K $\pm$

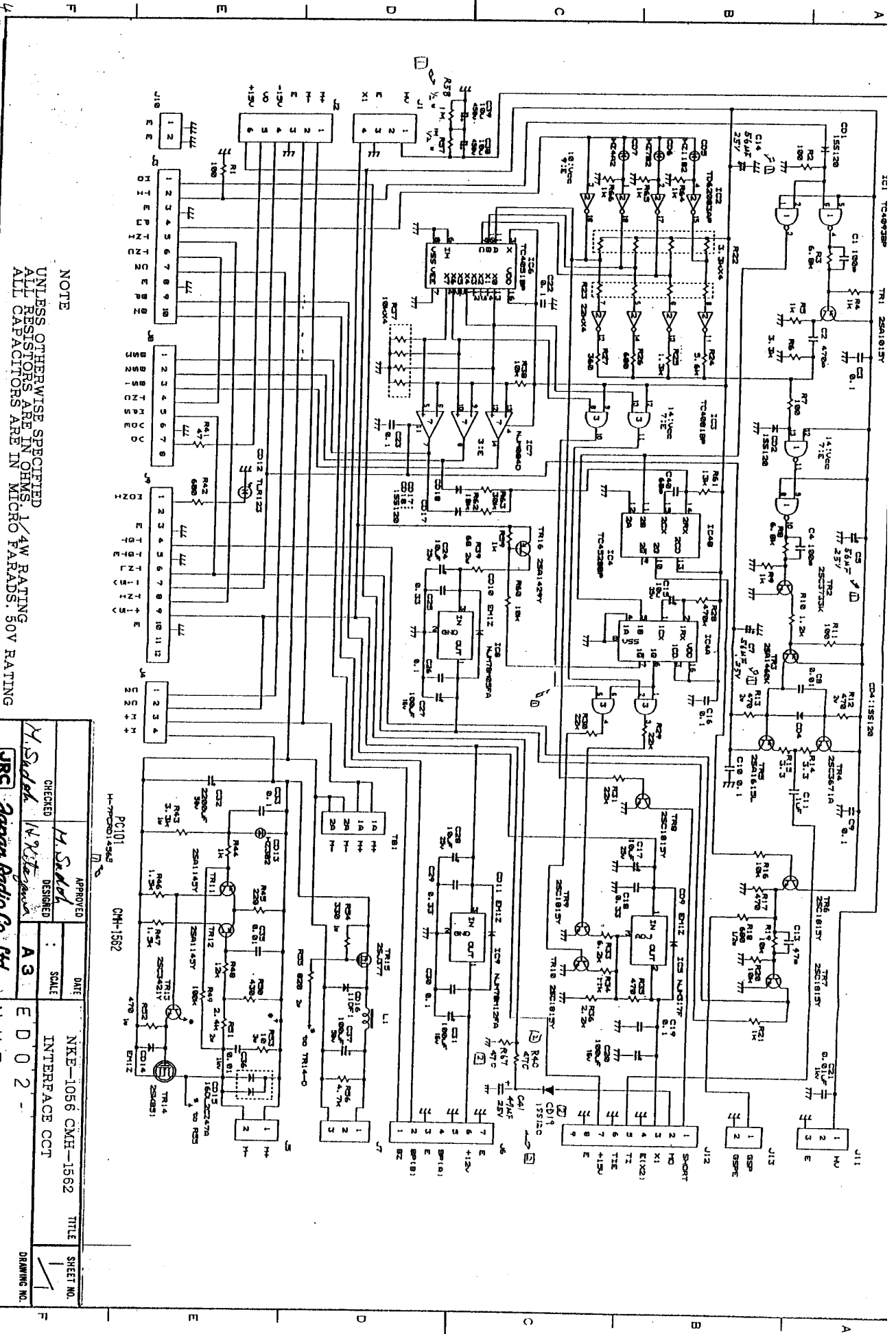
UNLESS OTHERWISE SPECIFIED		
DIMENSION	SPECIFIED	TOLERANCE
0 TO 30	± 1	± 0.5
OVER 30 TO 120	± 1.5	
OVER 120 TO 400	± 2.5	± 1
OVER 400 TO 1000	± 4	± 2
OVER 1000 TO 2000	± 6	
OVER 2000 TO 3000	± 8	± 3

Dimension mm.

CHECKED H. Kobayashi		APPROVED H. Kobayashi		DATE 08 JUN '98	TITLE NKE-1056-9 SCANNER UNIT	SHEET NO. 1/1
DESIGNED E. Kose		SCALE 1:10		DRAWING NO. SCNKE5137		



ω

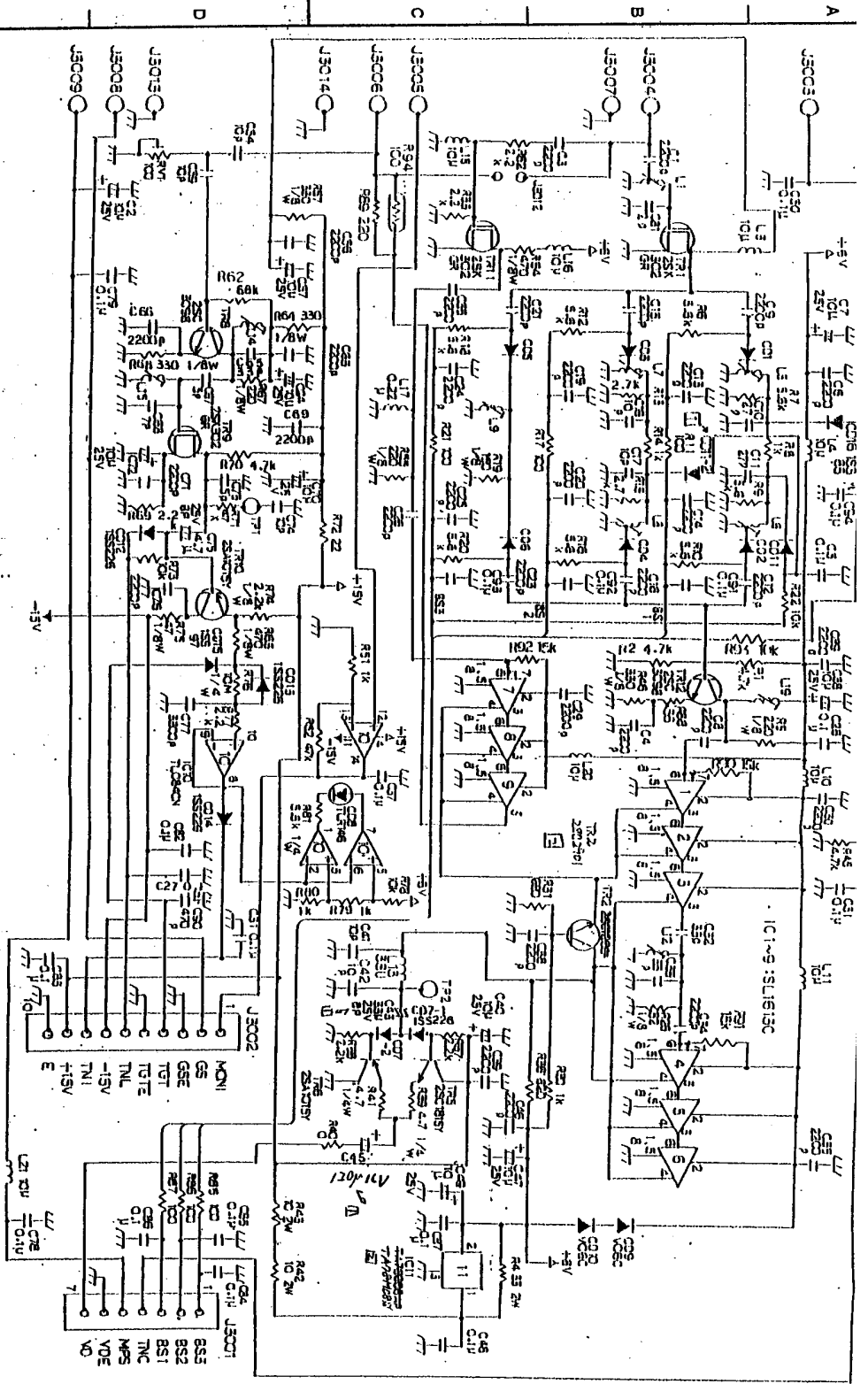


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE IN OHMS, 1/4W RATING
ALL CAPACITORS ARE IN MICRO FARADS, 50V RATING

CHECKED		APPROVED		DATE	
H. Sada		H. Sada		NIKE-1056 CMH-1562	
DESIGNED		SCALE		INTERFACE CCT	
A 3		E D 0 2		TITLE	
JRC Japan Radio Co. Ltd.		N K E - 1 0 5 6 - 1 1 0 1 1		SHEET NO.	
				DRAWING NO.	

第3巻 2 3

6 7 8

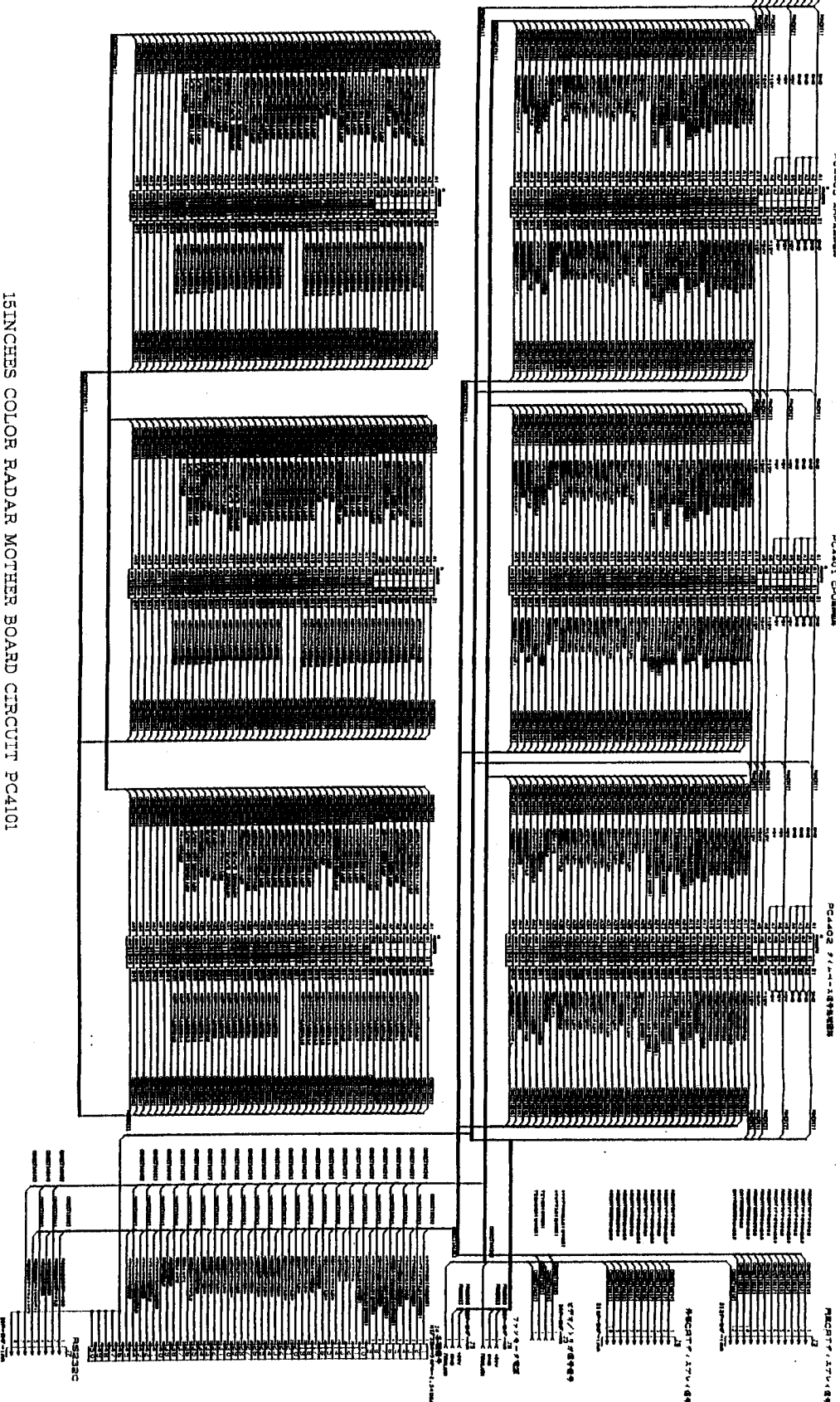


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE IN OHMS. 1/10W RATING
ALL CAPACITORS ARE IN FARADS. 50V RATING

7FCR0134-2 CAE-344-2 PC301

CHECKED		APPROVED		DATE		TITLE		SHEET NO.	
H. Saito		H. Saito		A 3		CAE-344-2		1	
DESIGNED		SCALE		ED 0 2		IF AMP CCT		DRAWING NO.	
JRC Japan Radio Co. Ltd.				N K E - 1 1 0 5 6 - 1 3 0 1 1					

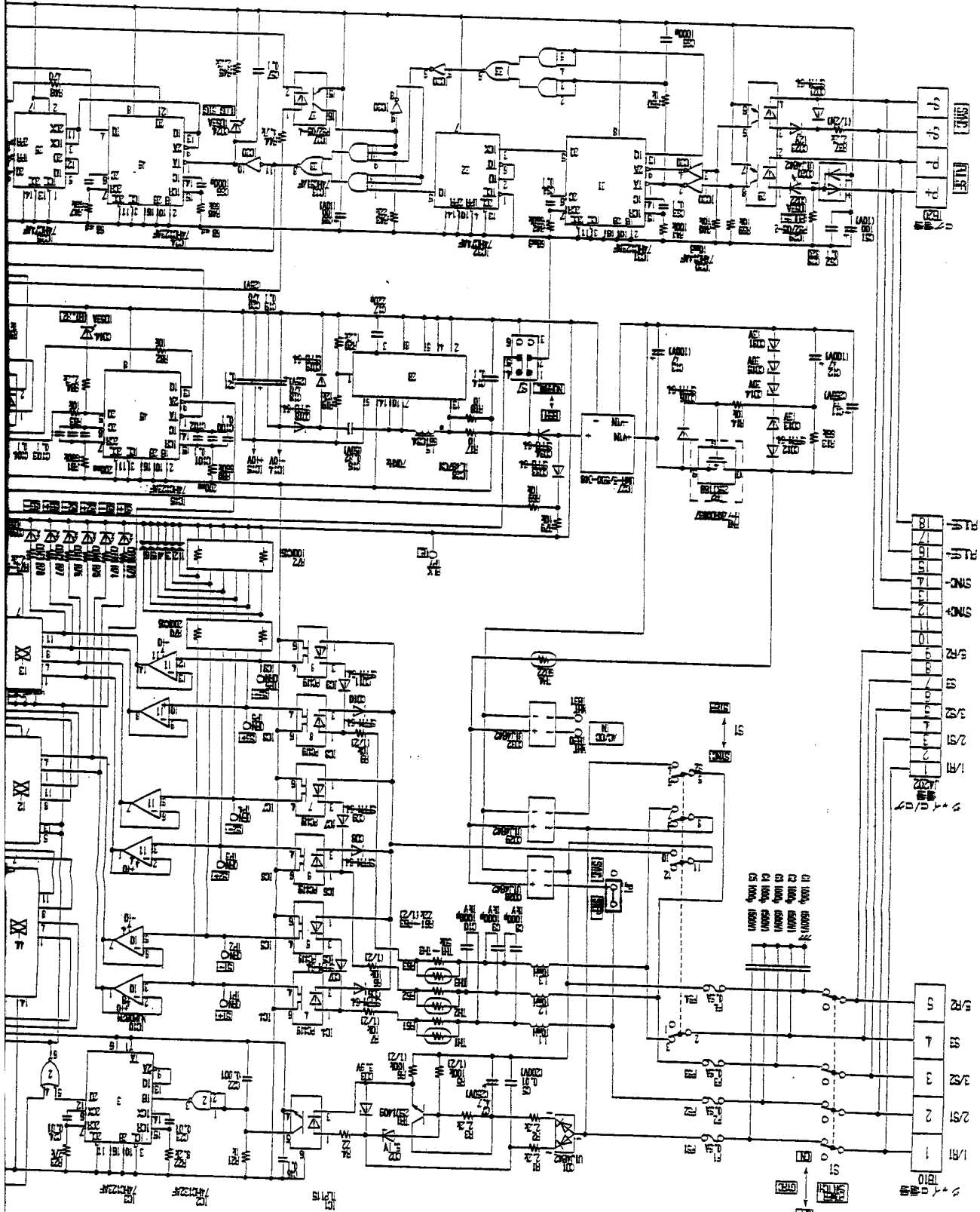
18 INCHES COLOR RADAR MOTHER BOARD CIRCUIT PCA101
 CFQ-8682 H-7PCRD1442A



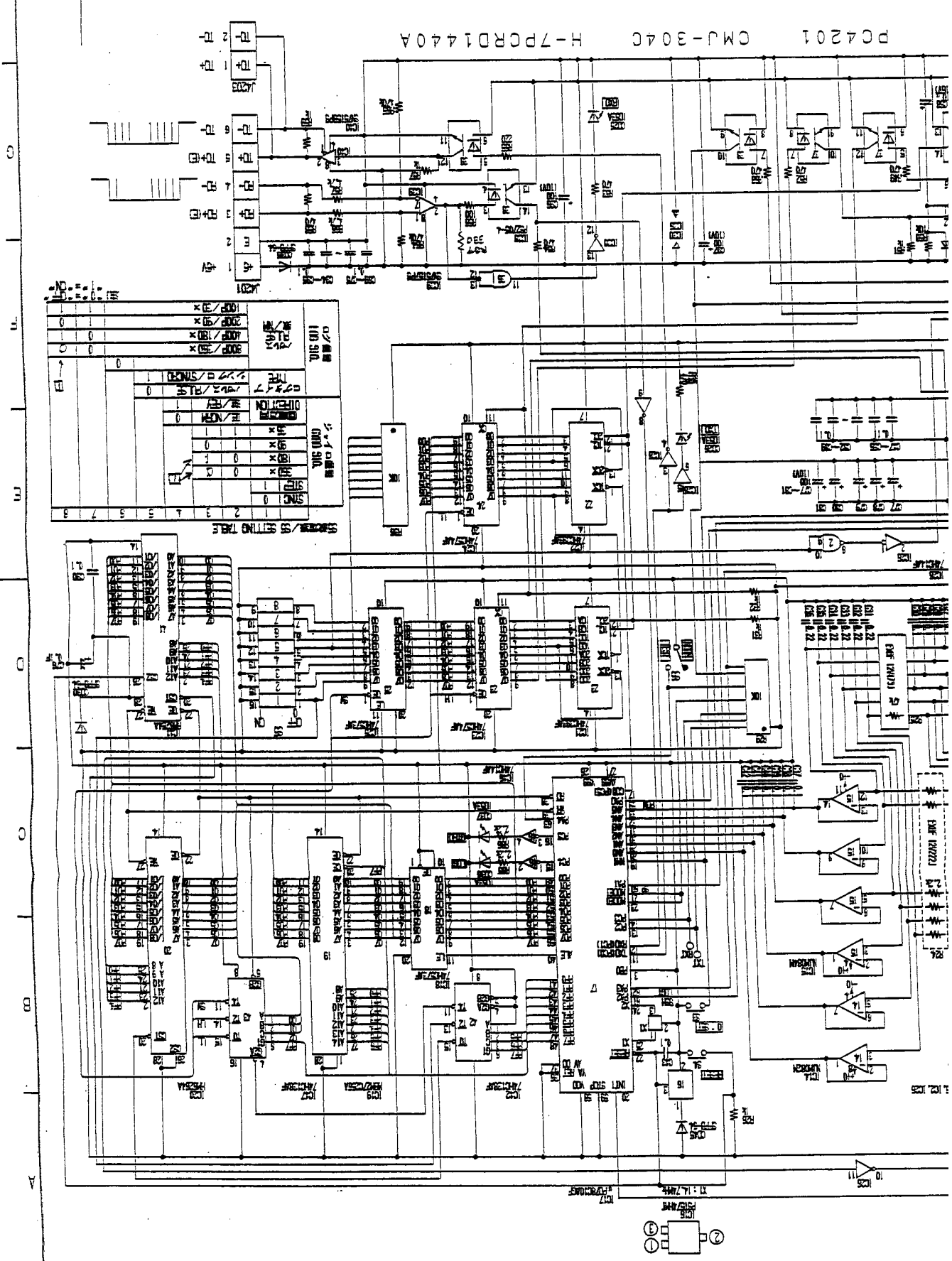
CHECKED M. S. S. S.		APPROVED M. S. S. S.		DATE 1992.6.19	TITLE NCD-3780 CFQ-8682 MOTHER BOARD CCT	SHEET NO. 1
DESIGNED A. S. S. S.		SCALE A3		DRAWING NO. ED 01 -		
JRC Japan Radio Co., Ltd.				NCD-3780-141101		

第 3 角法 単位 mm 2 3 6 7 8

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE IN OHMS
ALL CAPACITORS ARE IN P.F.S.

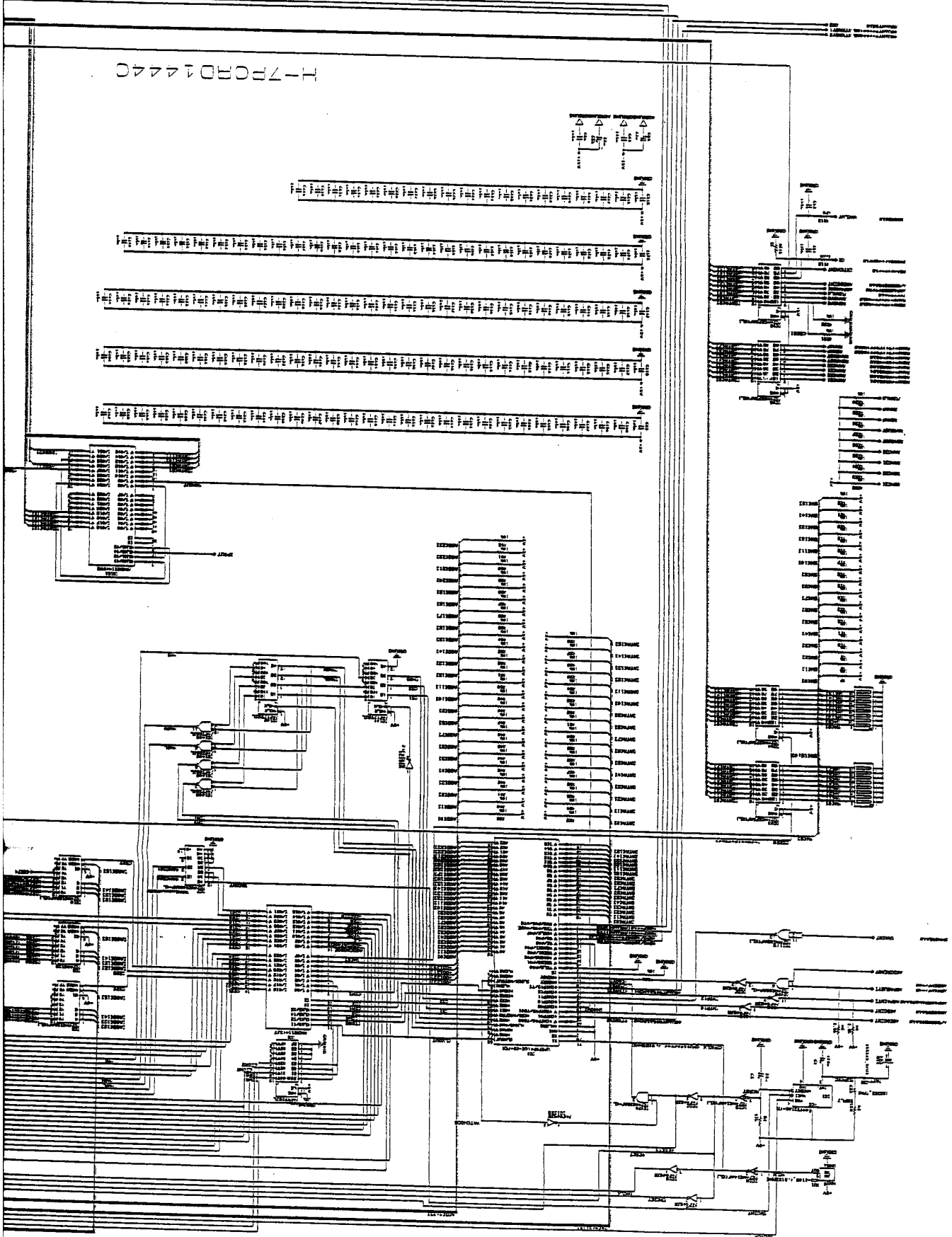


JRC Japan Radio Co., Ltd. C.M.J.-304C		E D 0 1 - DRAWING NO.	
APPROVED 1997.11.11 DATE	CHECKED 11/11/97 DESIGNED	SCALE 1:1	TITLE NCD-3590 NSR/LOG CCT
SHEET NO. 1		SHEET NO. 1	



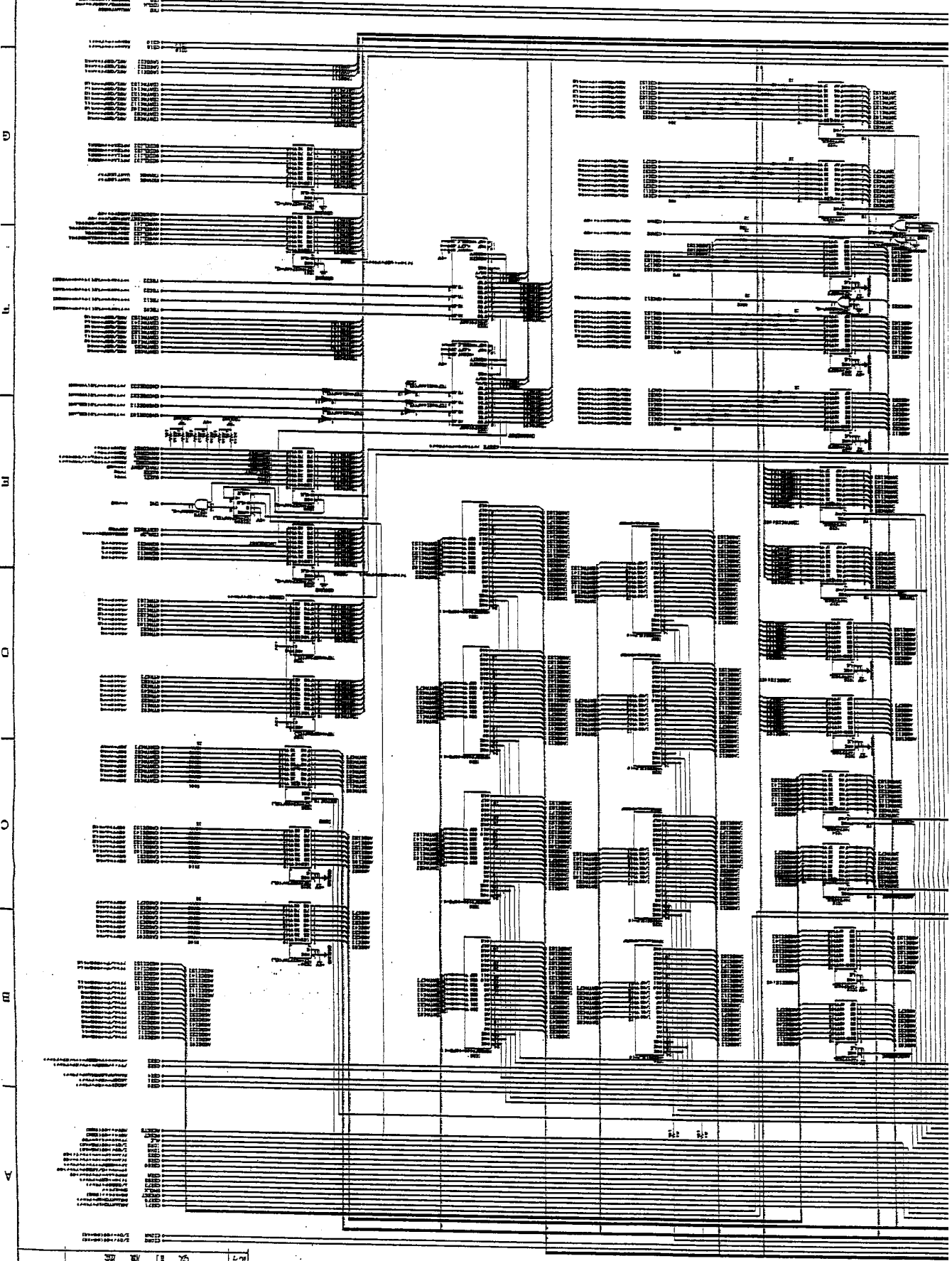
APPROVED		DATE		TITLE		SHEET NO.	
M. Sudath		1948.9.8		NCD-3780 CQD-1546		1	
DESIGNED		SCALE		TERMINAL BOARD			
A3		X		E D O 3 -			
CHECKED		BY		N C D - 3 7 8 0 - 4 3 0 1			
K. K. Jagan		9 July					
JRC Japan Radio Co., Ltd.							
DRAWING NO.							

H-7PCBD 1444C



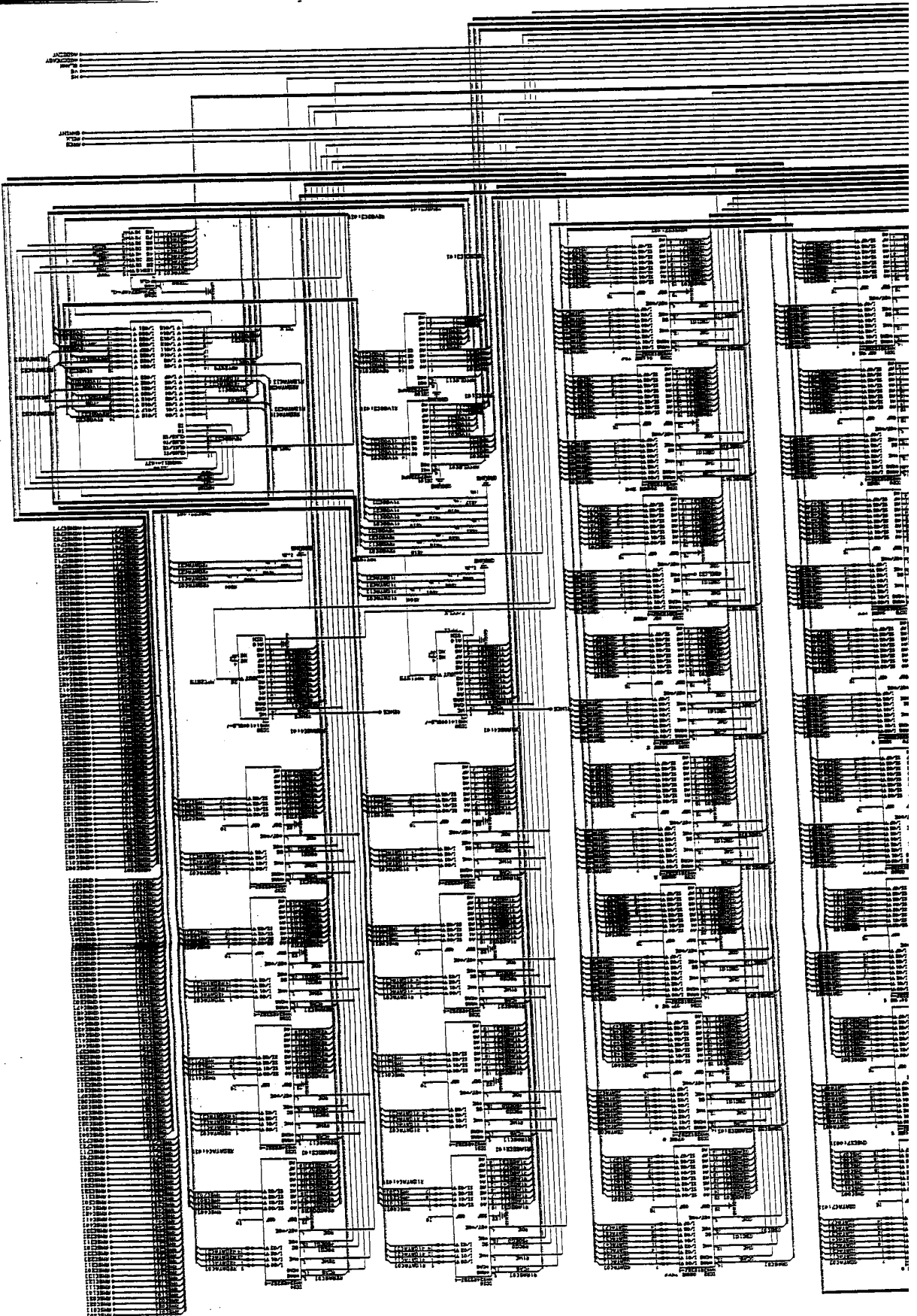
JRC Japan Radio Co. Ltd.		A 2		E D 0 3 -		DRAWING NO.	
CHECKED H. Kikuchi		DESIGNED G. Kato		NCD-3780		CMC-1012 CPU CONTROL COT	
APPROVED M. Sudo		DATE 1998.9.8		SCALE		SHEET NO. 4	

CONTROL CIRCUIT PC4401.1/4

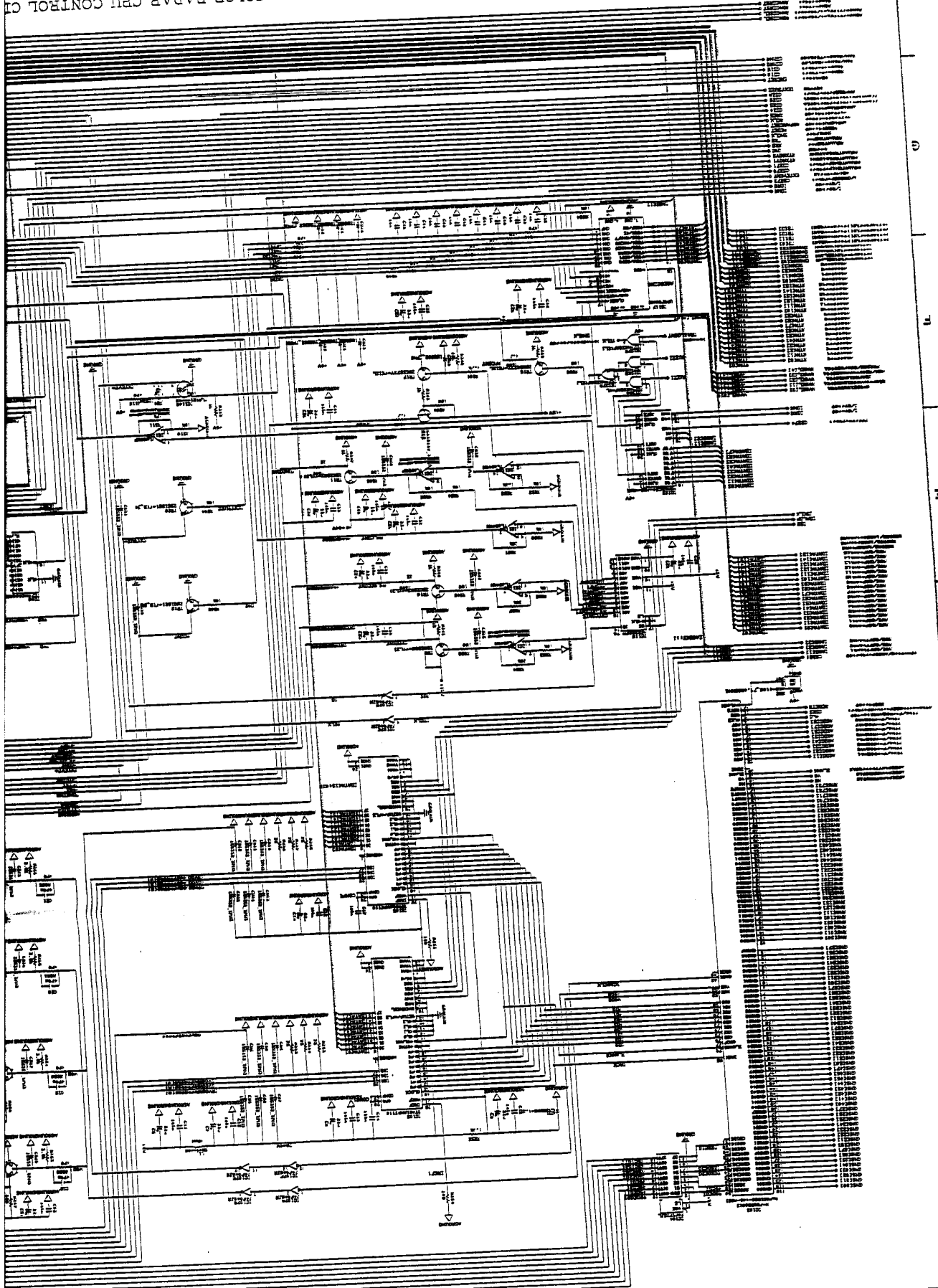


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APPROVED		1998.9.8		DATE	NCD-3780		TITLE		SHEET NO.		
CHECKED		M. Smith		SCALE	X		NCD-1012 CPU CONTROL COT		DRAWING NO.		
DESIGNED		J. Smith		A2		ED003-		NCD-3780-4401		JRC Japan Radio Co., Ltd.	

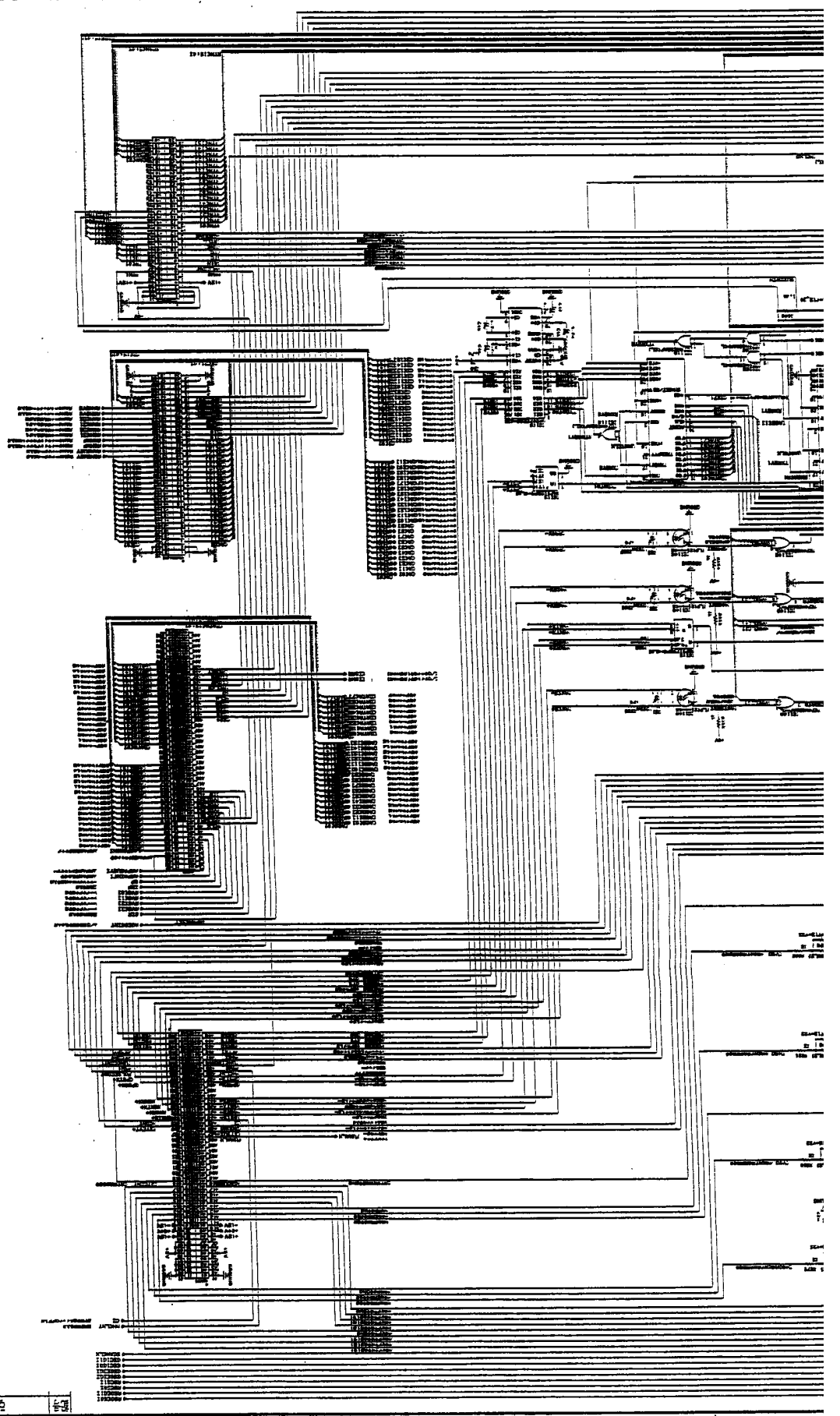


15 INCHES COLOR RADAR CPU CONTROL C

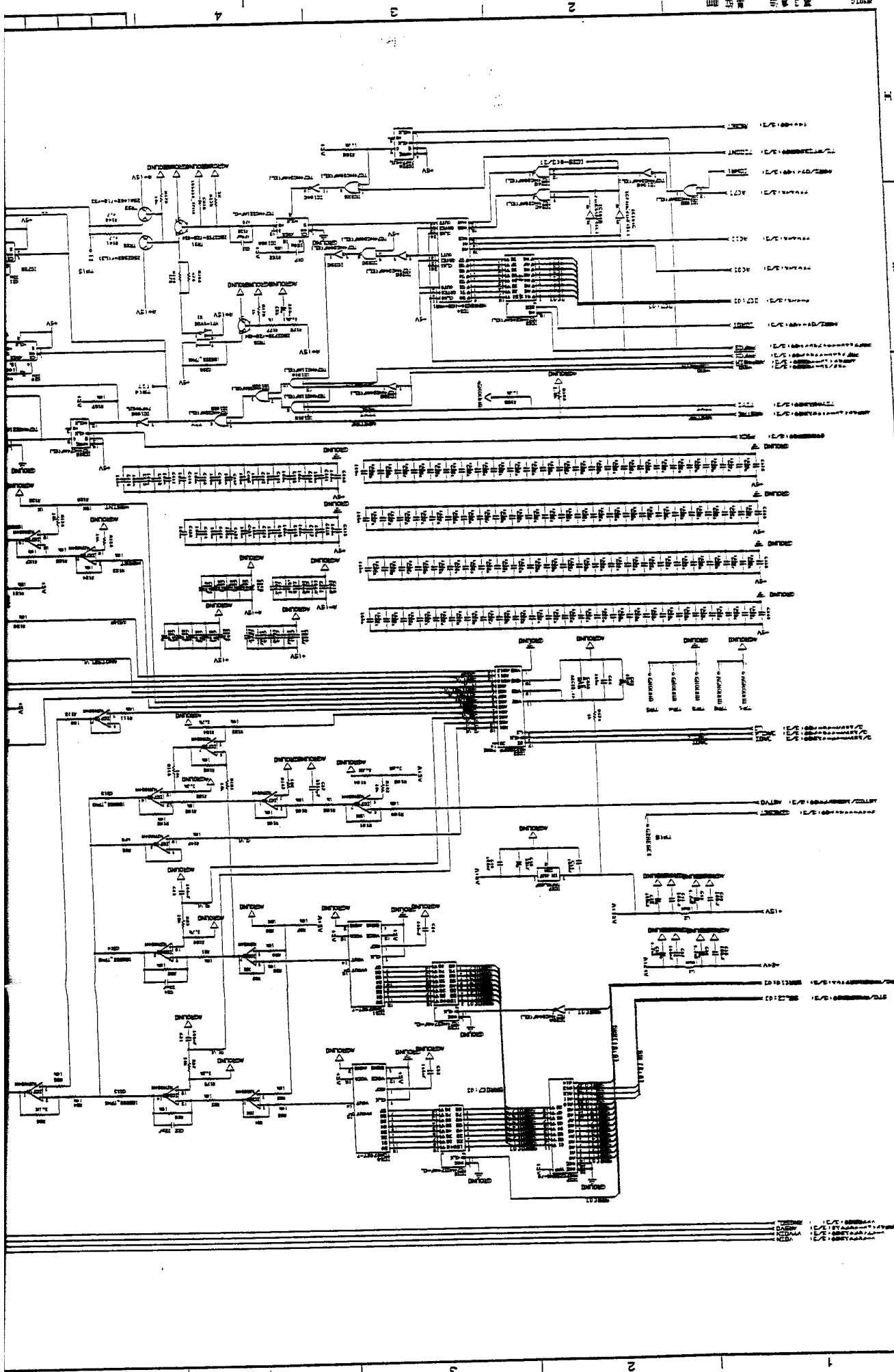


1:3/4 H-7PCFD1444C

JRC Japan Radio Co., Ltd.	
APPROVED	DESIGNED
1998.9.8	1998.9.8
DATE	SCALE
1/2	A2
TITLE	
NCD-3780 CPU CONTROL COT	
DRAWING NO.	
E D O 3 -	
N.C.D.-3780-4440	



H G M O U A



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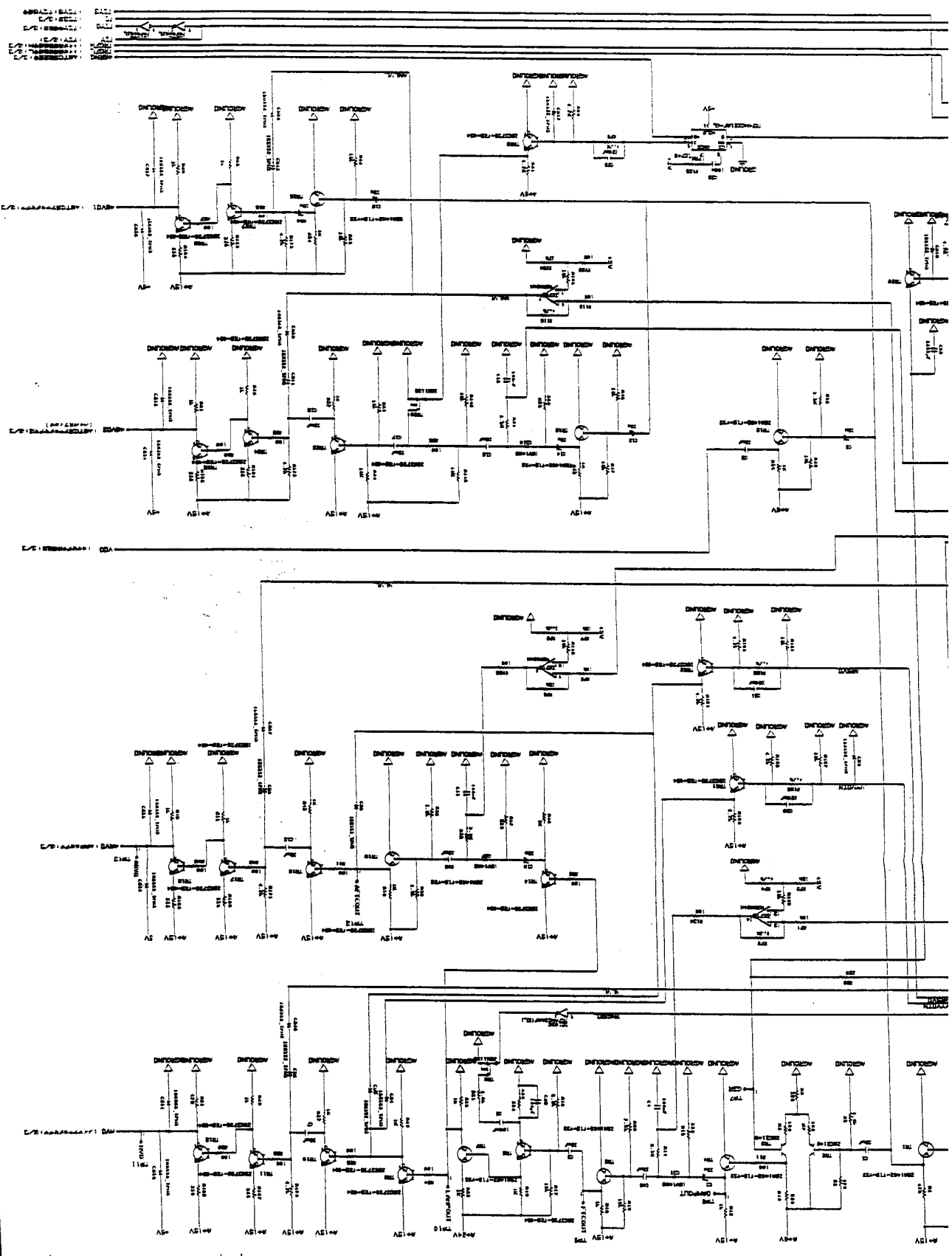
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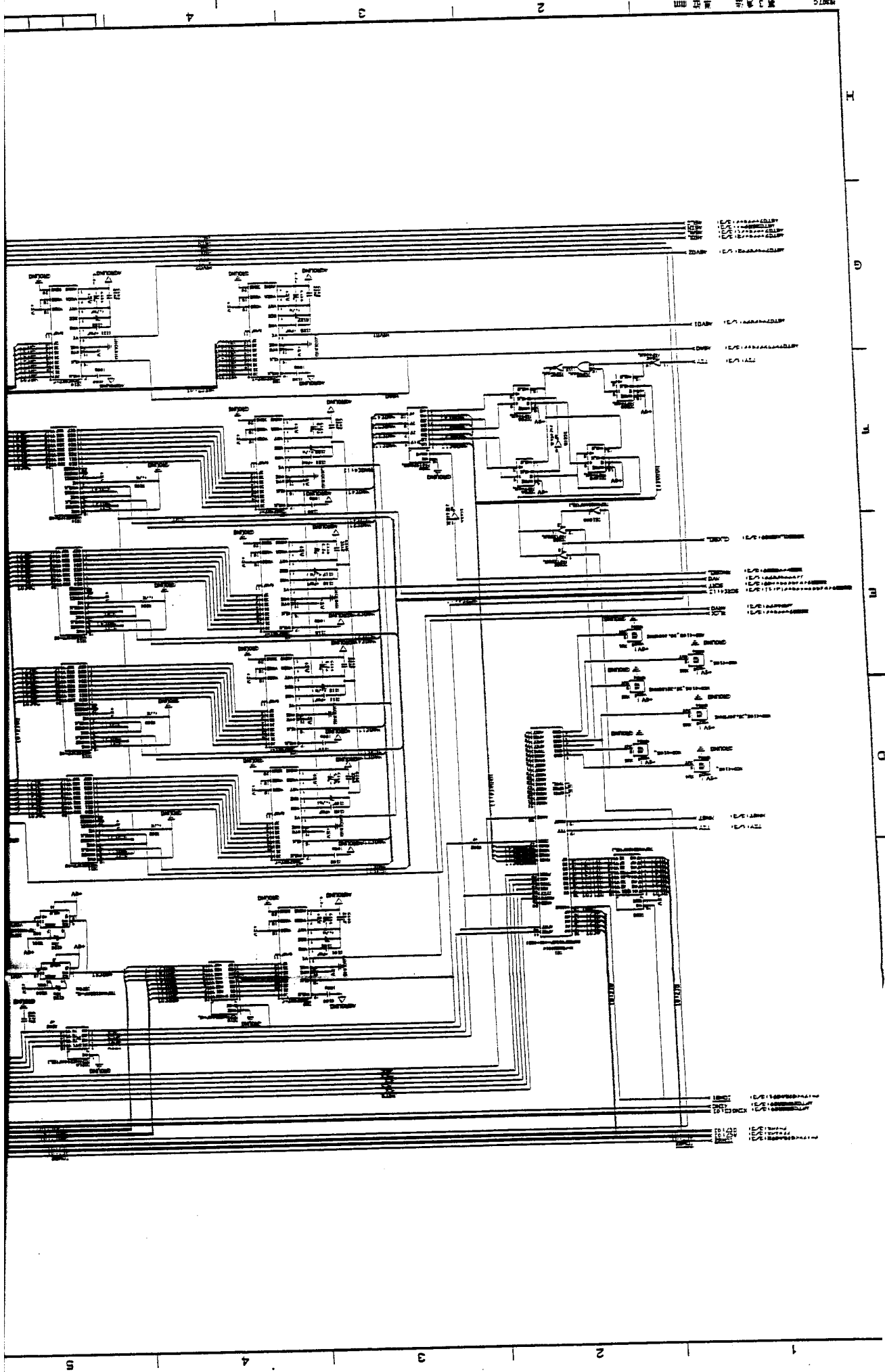
1
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4

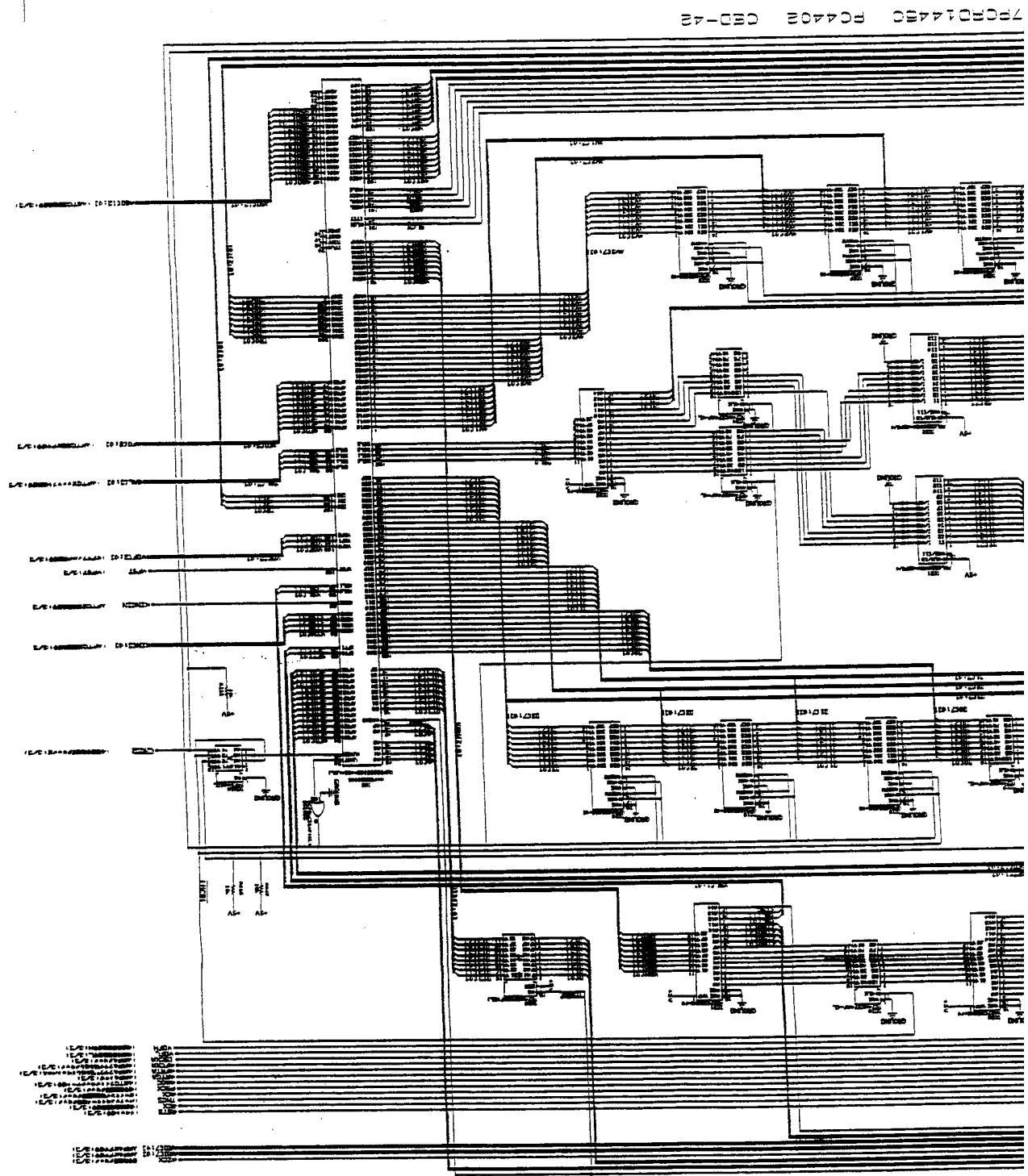
DRAWING NO. E D 0 3 -		JRC Japan Radio Co. Ltd.	
SHEET NO. 3		APPROVED M. Suda	DESIGNED G. Kato
TITLE TIME BASE COT		DATE 1982.16	SCALE

H-7P0RD1445C PC4402 CED-42





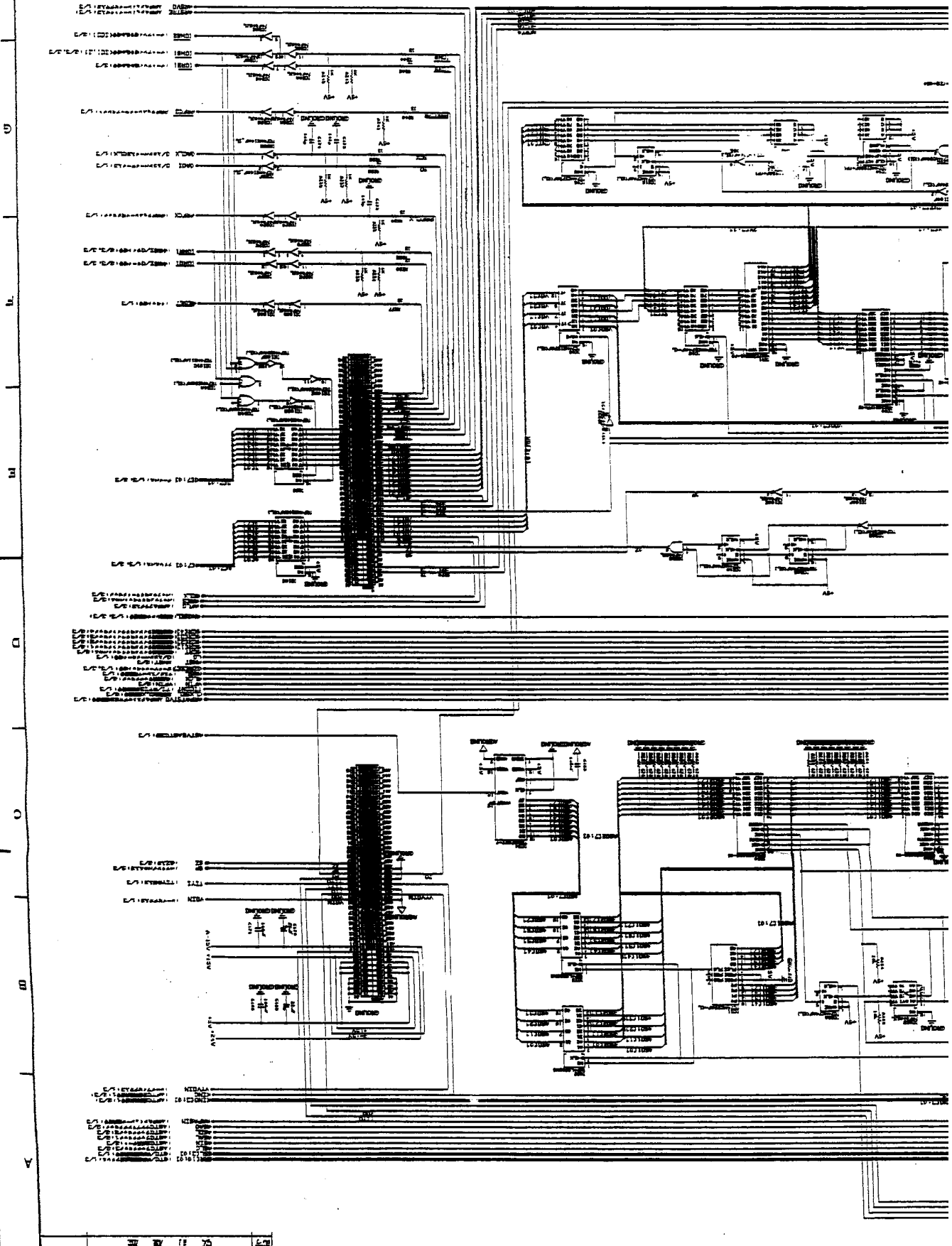
JRC Japan Radio Co., Ltd.		E D 0 3 -		N C D - 3 7 8 0 - 4 2	
APPROVED		DATE 1998.2.16		TITLE NCD-3780 CED-42	
CHECKED		DESIGNED		DRAWING NO.	
M. Saito		X SCALE		SHEET NO. 2/3	

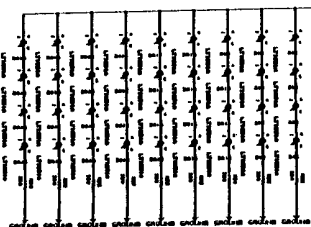




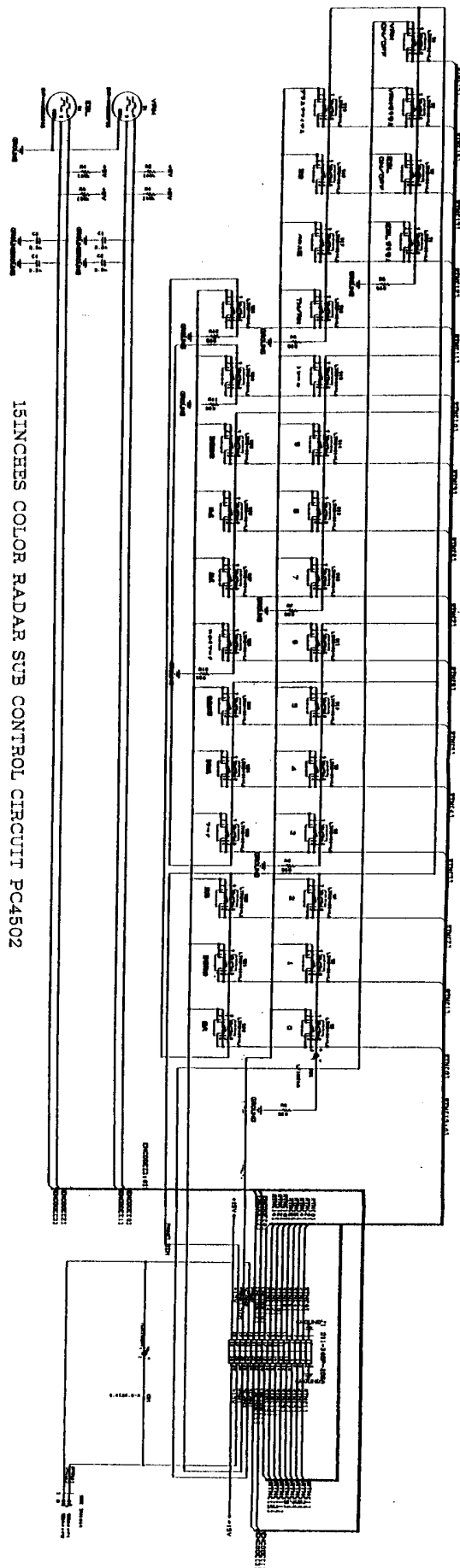
DRAWING NO. E D 0 3 -		JRC Japan Radio Co. Ltd.	
TITLE NCD-3780 CED-42		DESIGNED <i>M. Sada</i>	CHECKED <i>N. Tanaka</i>
SHEET NO. 3		DATE 1998.2.16	SCALE

PCRD1445C PC4402 CED-42





APPROVED	DATE	TITLE	SHEET NO.
M. Swadlow	1998.1.4	NCD-3780 CCK-787	1
CHECKED	DESIGNED	PANEL CCK1	
W. K. Thompson	W. K. Swadlow		
A3		ED 01 -	DRAWING NO.
JRC Japan Radio Co., Ltd.		NCD-3780-4501	

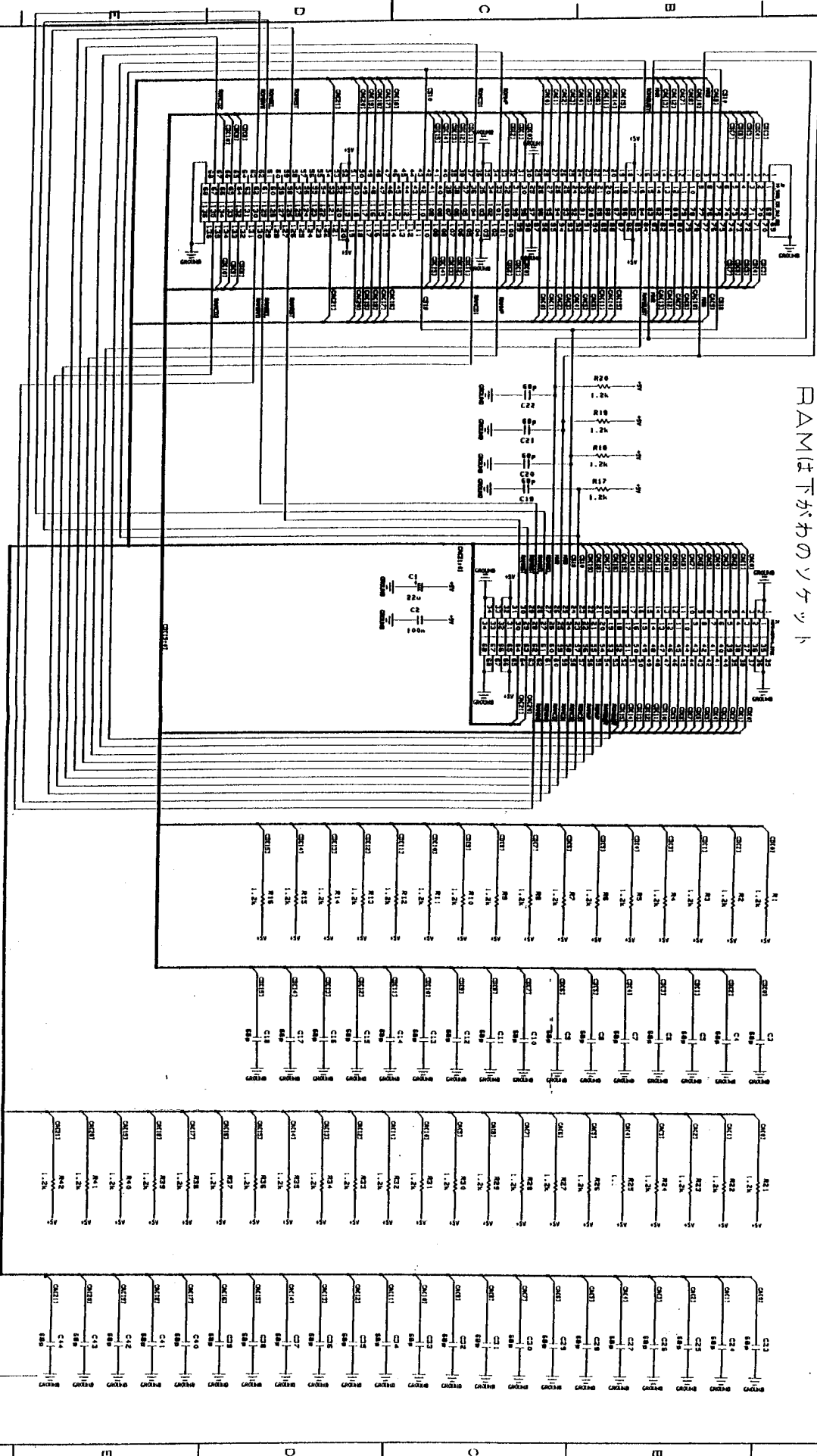


15INCHES COLOR RADAR SUB CONTROL CIRCUIT PC4502
CCK-789 H-7PCRD1448A/B

APPROVED	DATE	NCD-3780 CCK-789	TITLE	SHEET NO.
M. S. Satchell	1978.1.6	PANEL CCT2		1
CHECKED	DESIGNED	DRAWING NO.		
G. Stou		ED 01 -		
SCALE	A3	NCD-3780-4502		
JRC Japan Radio Co., Ltd.				

ROM側 RAM側

ROMは上側のソケット
RAMは下側のソケット



15 INCHES COLOR RADAR PANEL CIRCUITS PC4503
CCR-790 H-7PCRD1449C

CHECKED		APPROVED		DATE		TITLE		SHEET NO.	
M. Sadaoka		M. Sadaoka		7/12/9		NCD-3780 CCR-790		1	
DESIGNED		SCALE		A3		PANEL CTS		DRAWING NO.	
JRC		Japan Radio Co. Ltd.		E D O 3 -		N.C.D.-13780-14503			



CBD-1378

DATE		TITLE		SHEET NO.
APPROVED		NCD-3780	CBD-1378	
CHECKED	M. Suddeth	DESIGNED		
			SCALE	
M. Suddeth	W. H. Taylor	A3		
JRC		Japan Radio Co., Ltd.		
		ED 0 2 -		
		N C D - 3 7 8 0 - 5 1 0 1		
		DRAWING NO.		

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記号

改訂履歴

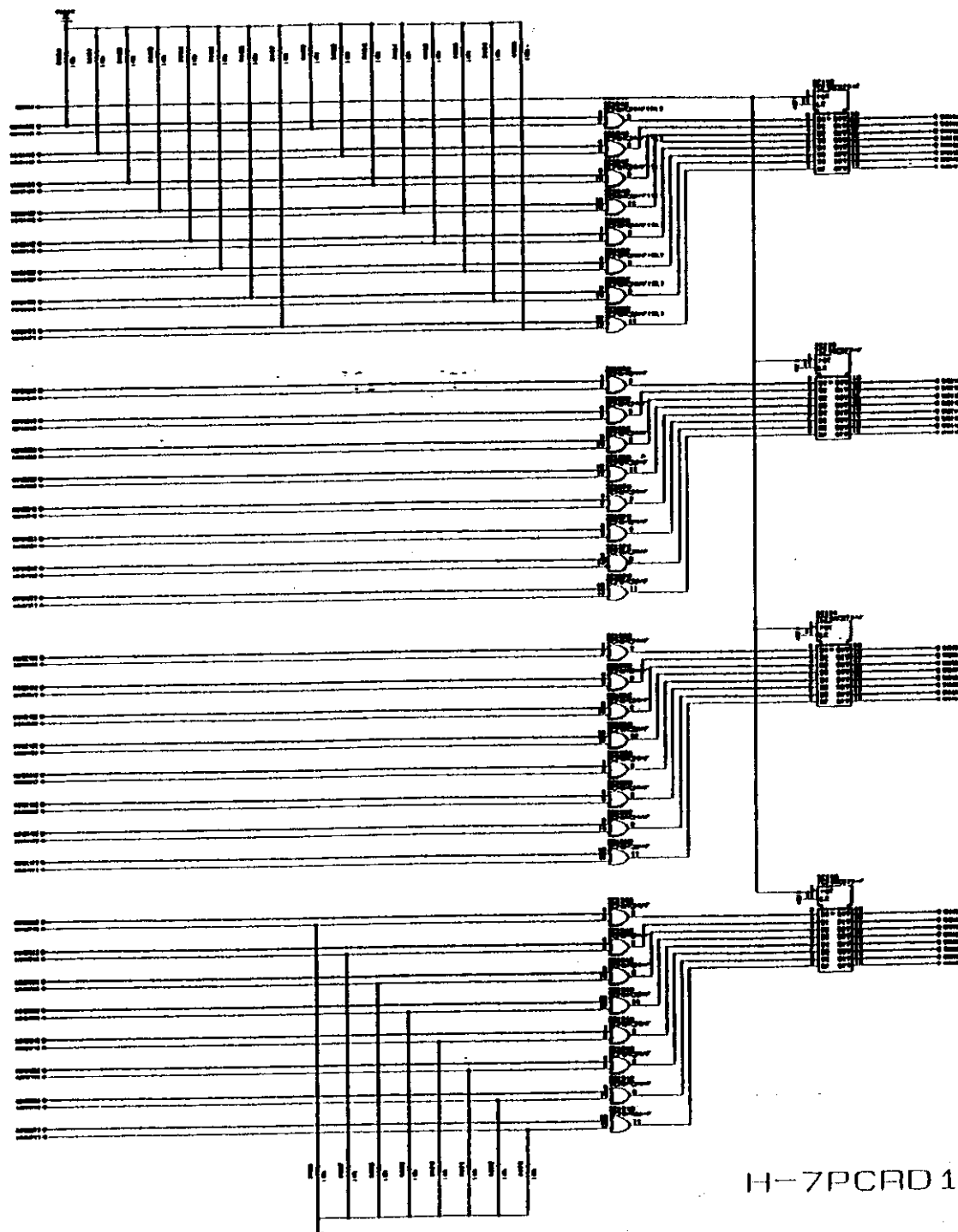
A

B

C

D

E



H-7PCRD1444C

15INCHES COLOR RADAR CPU CONTROL CIRCUIT PC4401;4/4

F

APPROVED

1978.9.8 DATE

TITLE

SHEET NO.

M. Sudo

DESIGNED

X SCALE

NCD-3780

CMC-1012 CPU CONTROL CCT

4/4

CHECKED

H. Kitayama

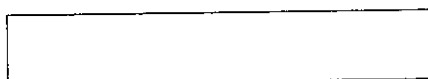
J. Saito

A 4

E D 0 3 -

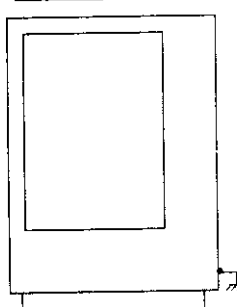
DRAWING NO.

SCANNER UNIT
NKE-1056-6



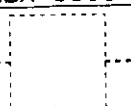
28-CORES COMPOSITE CABLE
H-CFQ-8681
MAX. 16.5 ϕ (JRC SUPPLY)

DISPLAY UNIT
NCD-3780



GYRO 250V-MPYCYS-5
LOG 250V-DPYCS-1.25
GPS 250V-TTYCYS-1
RADAR BUOY H-2695110006 MAX.12.5 ϕ (JRC SUPPLY)
RADAR ADAPTER H-2695110006 MAX.12.5 ϕ (JRC SUPPLY)
USE EXCLUSION { 2 AXES LOG 250V-TTYCYS-1
ELECTRIC COMPASS 250V-TTYCYS-1
EXT. BUZZER 250V-TTYCYS-1
ARPA ALARM 250V-TTYCYS-1

RECTIFIER UNIT (OPTION)
NBA-3308



CVVS2x5.5
SHIP'S MAIN
AC100V
60Hz, 1 ϕ
CVVS2x5.5
SHIP'S MAIN
DC24V

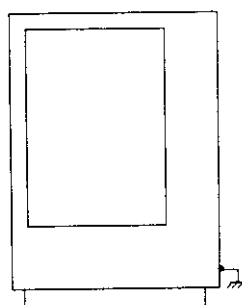
NOTES: ELIMINATING THE INTERFERENCE ON FREQUENCIES USED FOR MARINE COMMUNICATIONS AND NAVIGATION
DUE TO OPERATION OF THE RADAR.
ALL CABLES OF THE RADAR ARE TO BE RUN AWAY FROM THE CABLES OF RADIO EQUIPMENT.
(EX. RADIOTELEPHONE, COMMUNICATIONS RECEIVER AND DIRECTION FINDER, ETC.).
ESPECIALLY INTER-WIRING CABLES BETWEEN SCANNER UNIT AND DISPLAY UNIT OF THE RADAR SHOULD NOT
BE RUN PARALLEL WITH THE CABLES OF RADIO EQUIPMENT.

SCANNER UNIT
NKE-1056-9



28-CORES COMPOSITE CABLE
H-CFQ-8681
MAX. 16.5 ϕ (JRC SUPPLY)

DISPLAY UNIT
NCD-3780



GYRO 250V-MPYCYS-5

LOG 250V-DPYCS-1.25

GPS 250V-TTYCYS-1

RADAR BUOY H-2695110006 MAX. 12.5 ϕ (JRC SUPPLY)

RADAR ADAPTER H-2695110006 MAX. 12.5 ϕ (JRC SUPPLY)

USE EXCLUSION { 2 AXES LOG 250V-TTYCYS-1

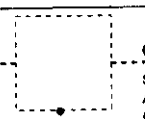
ELECTRIC 250V-TTYCYS-1

COMPASS 250V-TTYCYS-1

EXT. BUZZER 250V-TTYCYS-1

ARPA ALARM 250V-TTYCYS-1

RECTIFIER UNIT (OPTION)
NBA-3308



CVVS2x5.5

CVVS2x5.5

SHIP'S MAIN
AC100V
60Hz, 1 ϕ

CVVS2x5.5

SHIP'S MAIN
DC24V

NOTES: ELIMINATING THE INTERFERENCE ON FREQUENCIES USED FOR MARINE COMMUNICATIONS AND NAVIGATION DUE TO OPERATION OF THE RADAR.
ALL CABLES OF THE RADAR ARE TO BE RUN AWAY FROM THE CABLES OF RADIO EQUIPMENT.
(EX. RADIOTELEPHONE, COMMUNICATIONS RECEIVER AND DIRECTION FINDER, ETC.).
ESPECIALLY INTER-WIRING CABLES BETWEEN SCANNER UNIT AND DISPLAY UNIT OF THE RADAR SHOULD NOT BE RUN PARALLEL WITH THE CABLES OF RADIO EQUIPMENT.