

ROBOTIC CONTROLLER SYSTEM

REVISIONS				
NUMBER	DESCRIPTION	CHK	DATE	APPROVED
1	ORIGINAL RELEASE	PDE	6/86	ERDMAN

1.0 SYSTEM (RK200 SERIES)

- 1.1 BLOCK DIAGRAM
- 1.2 BUS INTERCONNECT

2.0 RCU (RK200)

- 2.1 BLOCK DIAGRAM
- 2.2 SCHEMATIC
- 2.3 COMPONENT LAYOUT
- 2.4 PWB PHYSICAL

3.0 MFC (RK210)

- 3.1 BLOCK DIAGRAM
- 3.2 SCHEMATIC
- 3.3 COMPONENT LAYOUT
- 3.4 PWB PHYSICAL

4.0 SSS (RK220)

- 4.1 BLOCK DIAGRAM
- 4.2 SCHEMATIC
- 4.3 COMPONENT LAYOUT
- 4.4 PWB PHYSICAL

5.0 SVMC (RK230)

- 5.1 BLOCK DIAGRAM

5.2 SCHEMATIC

5.3 COMPONENT LAYOUT

5.4 PWB PHYSICAL

6.0 STMC (RK240)

6.1 BLOCK DIAGRAM

6.2 SCHEMATIC

6.3 COMPONENT LAYOUT

6.4 PWB PHYSICAL

7.0 UNS (RK250)

7.1 BLOCK DIAGRAM

7.2 SCHEMATIC

7.3 COMPONENT LAYOUT

7.4 PWB PHYSICAL

8.0 ESI (RK260)

8.1 BLOCK DIAGRAM

8.2 SCHEMATIC

8.3 COMPONENT LAYOUT

6.4 PWB PHYSICAL

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FOR MATERIAL REQUIREMENTS SEE PARTS LIST

ENGINEER ERDMAN	DATE 3/86	CLASS 	ALPHA ROBOTICS INCORPORATED
CHECKER ERDMAN	6/86		
APPROVAL ERDMAN	6/86		
TITLE			RCS COVERSHEET
SIZE B		DWG NO. 1020	PROJECT NO. RK2XX
SCALE		DWG NUMBER X. X	SHEET

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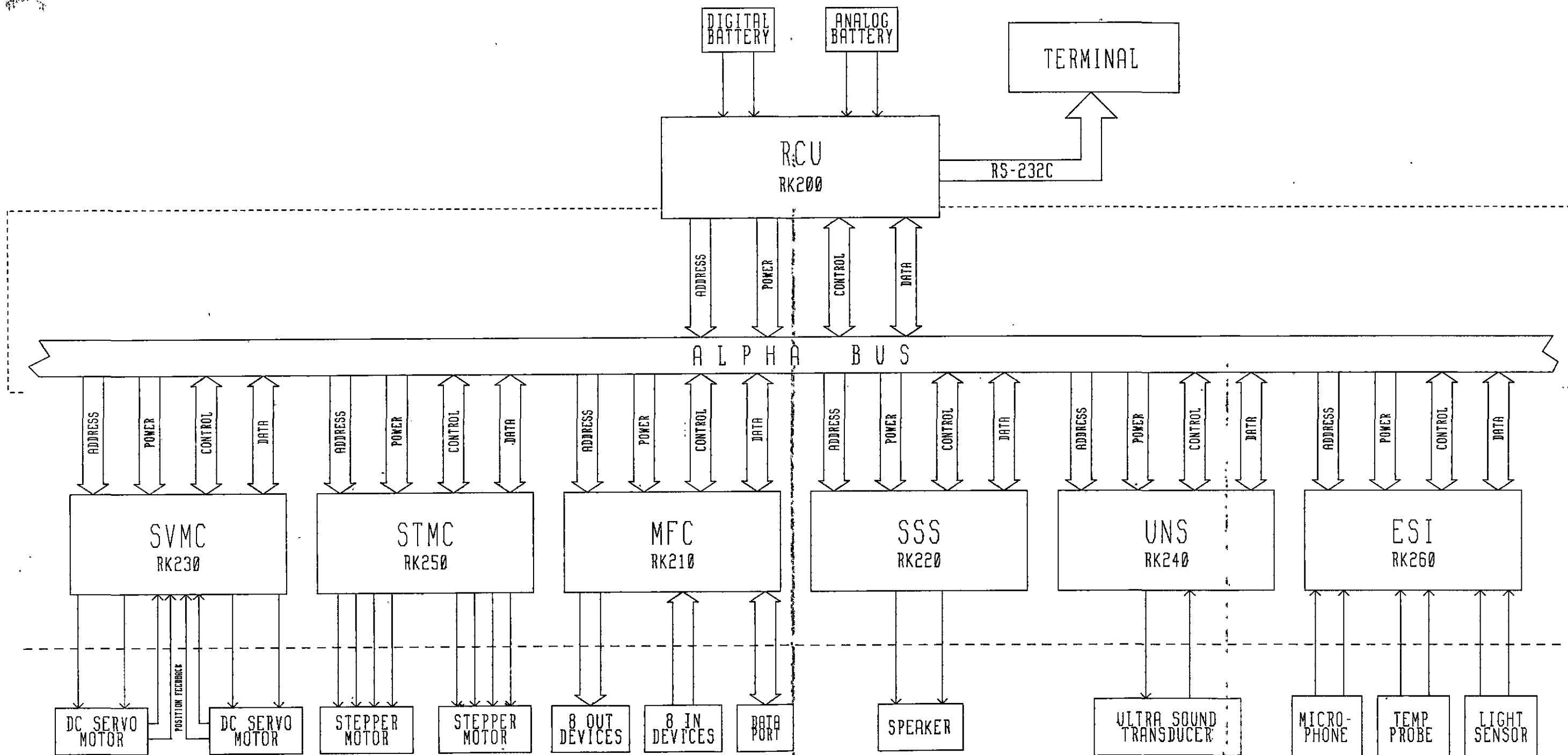
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5

4

3

REVISIONS				
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1	ORIGINAL RELEASE	PDE	6/86	ERDMAN



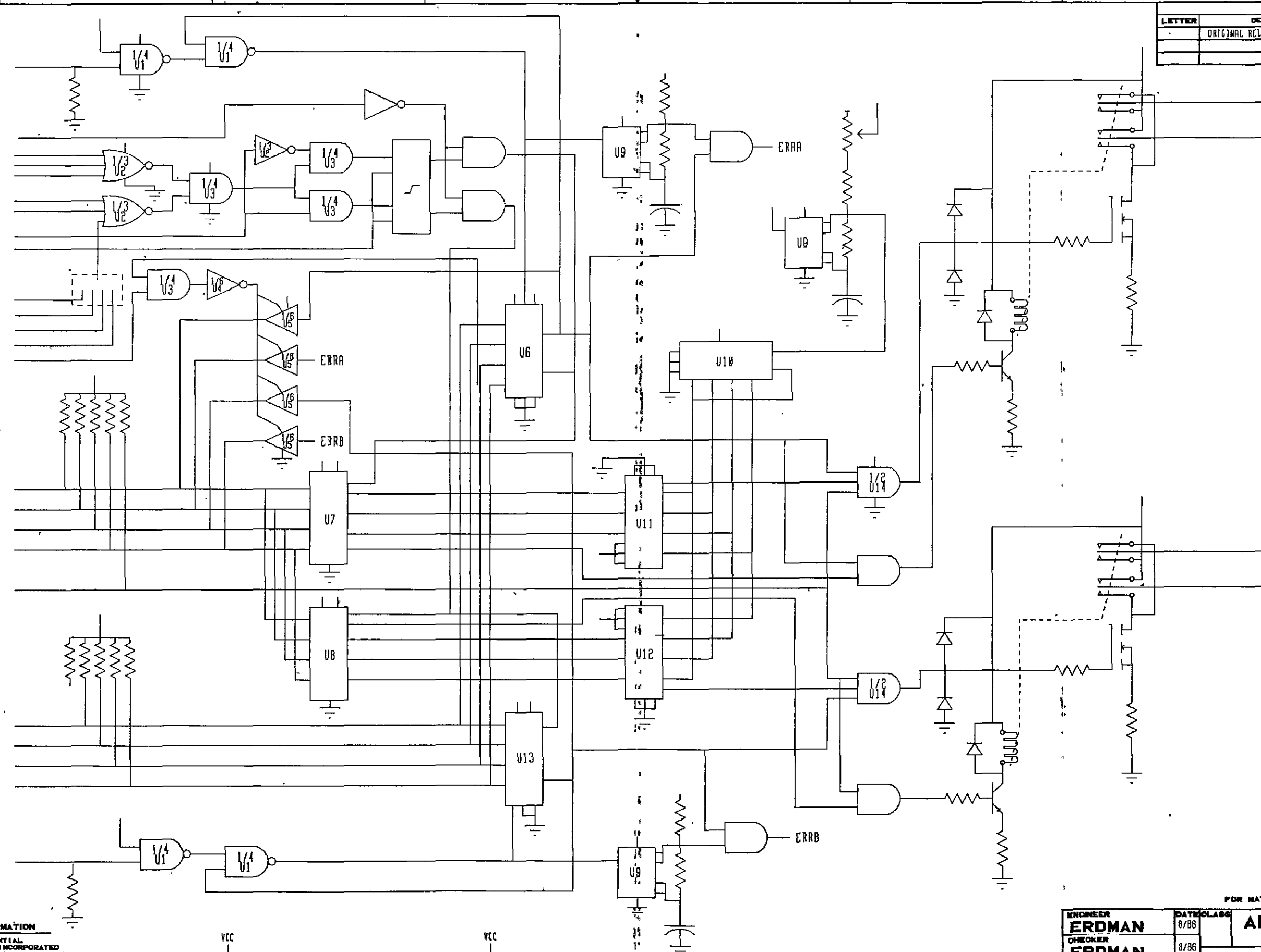
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FOR MATERIAL REQUIREMENTS SEE PARTS LIST			
ENGINEER HANSON	DATE 3/86	CLASS ALPHA ROBOTICS	
CHECKER ERDMAN	DATE 6/86	INCORPORATED	
APPROVAL ERDMAN	DATE 6/86	TITLE RCS	
		SYSTEM BLOCK	
		DIAGRAM	
SIZE B	DWG'T NO.	PROJECT NO. RK2XX	
SCALE	DWG NUMBER 1.1	SHEET	OF

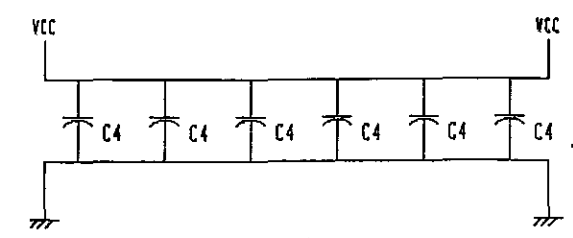
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REVISIONS				
LETTER	DESCRIPTION	CHK	DATE	APPROVED
	ORIGINAL RELEASE	PDC	8/86	ERDMAN



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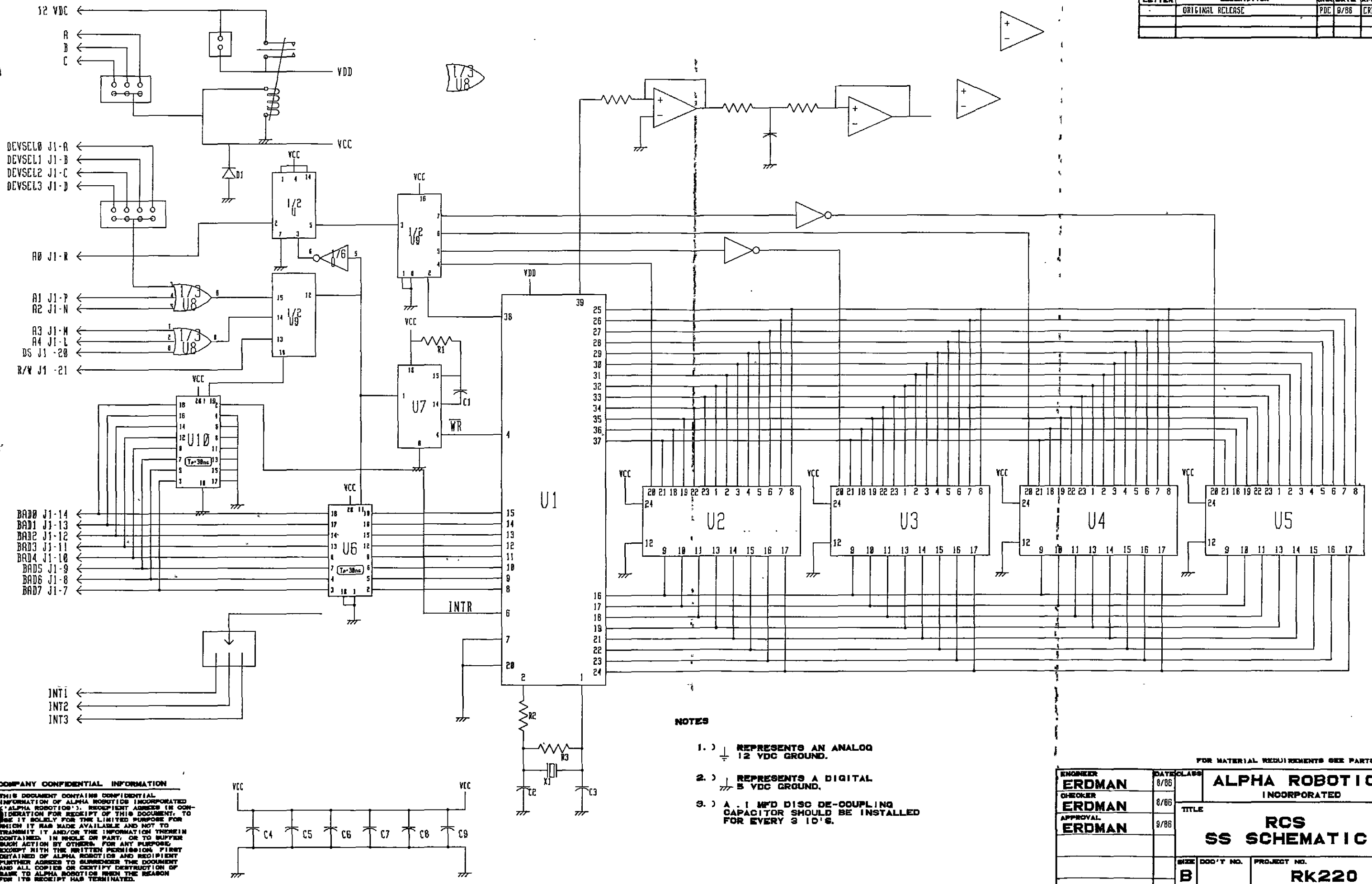
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ENGINEER ERDMAN		DATE/CLASS 8/86	ALPHA ROBOTICS INCORPORATED	
CHECKER ERDMAN		8/86	TITLE RCS SYMC SCHEMATIC	
APPROVAL ERDMAN		8/86	SIZE/DWG NO. PROJECT NO. B RK230	
SCALE		DWG NUMBER 3, 2	SHEET 1 OF 1	

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REVISIONS				
LETTER	DESCRIPTION	CHK	DATE	APPROVED
	ORIGINAL RELEASE	PDC	8/86	CRDMN



- NOTES
1.) REPRESENTS AN ANALOG 12 VDC GROUND.
 2.) REPRESENTS A DIGITAL 5 VDC GROUND.
 3.) A .1 MFD DISC DE-COUPLING CAPACITOR SHOULD BE INSTALLED FOR EVERY 3 IO'S.

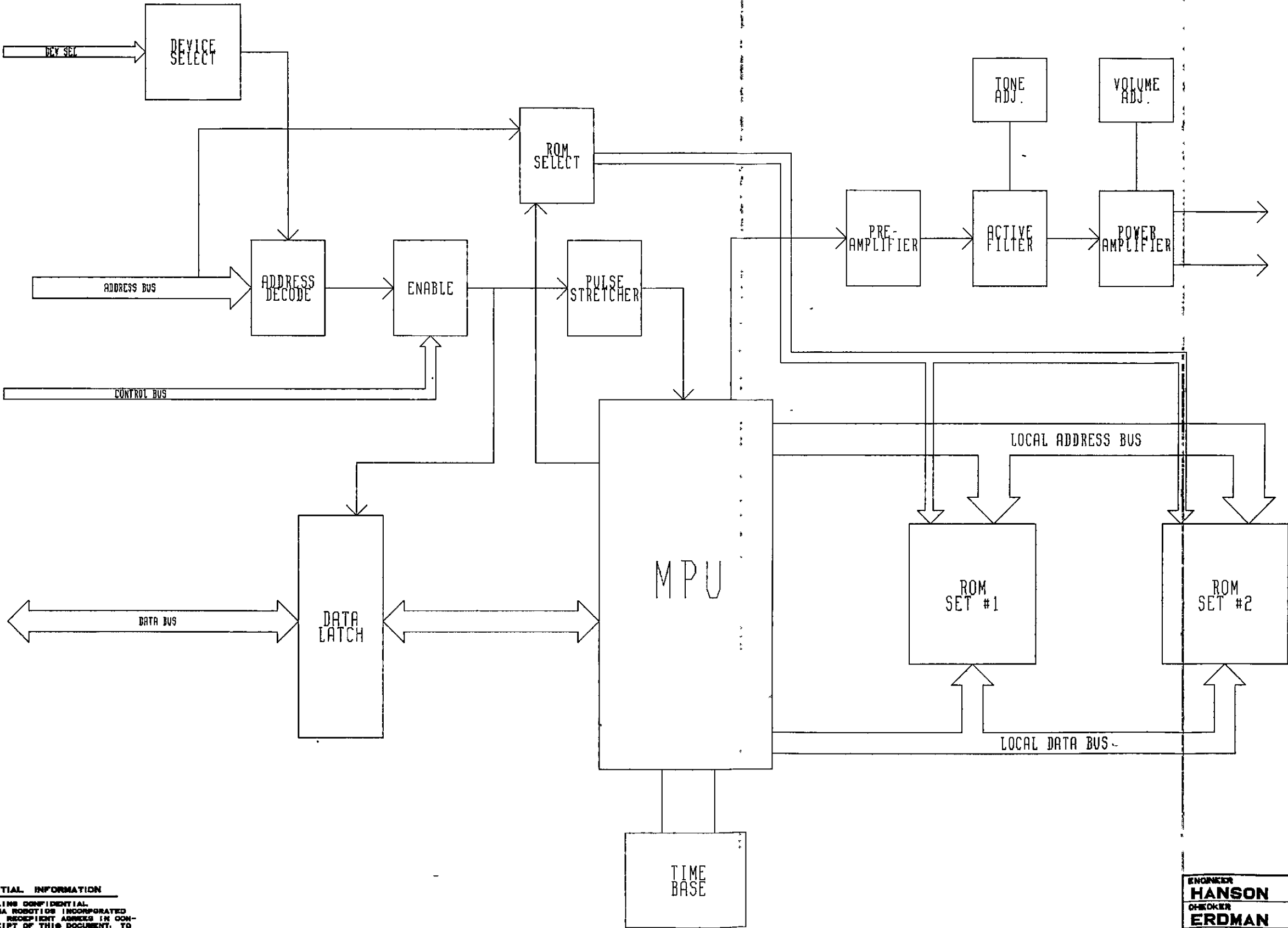
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ENGINEER ERDMAN		DATE 8/86	CLASS ALPHA ROBOTICS INCORPORATED
CHECKER ERDMAN		DATE 8/86	
APPROVAL ERDMAN		DATE 9/86	TITLE RCS SS SCHEMATIC
SIZE B	DOC'T NO.	PROJECT NO. RK220	
SCALE	DRWG NUMBER 3, 2	SHEET 1 OF 1	

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REVISIONS				
NUMBER	DESCRIPTION	CHK	DATE	APPROVED
1	ORIGINAL RELEASE	PDE	10/86	ERDMAN



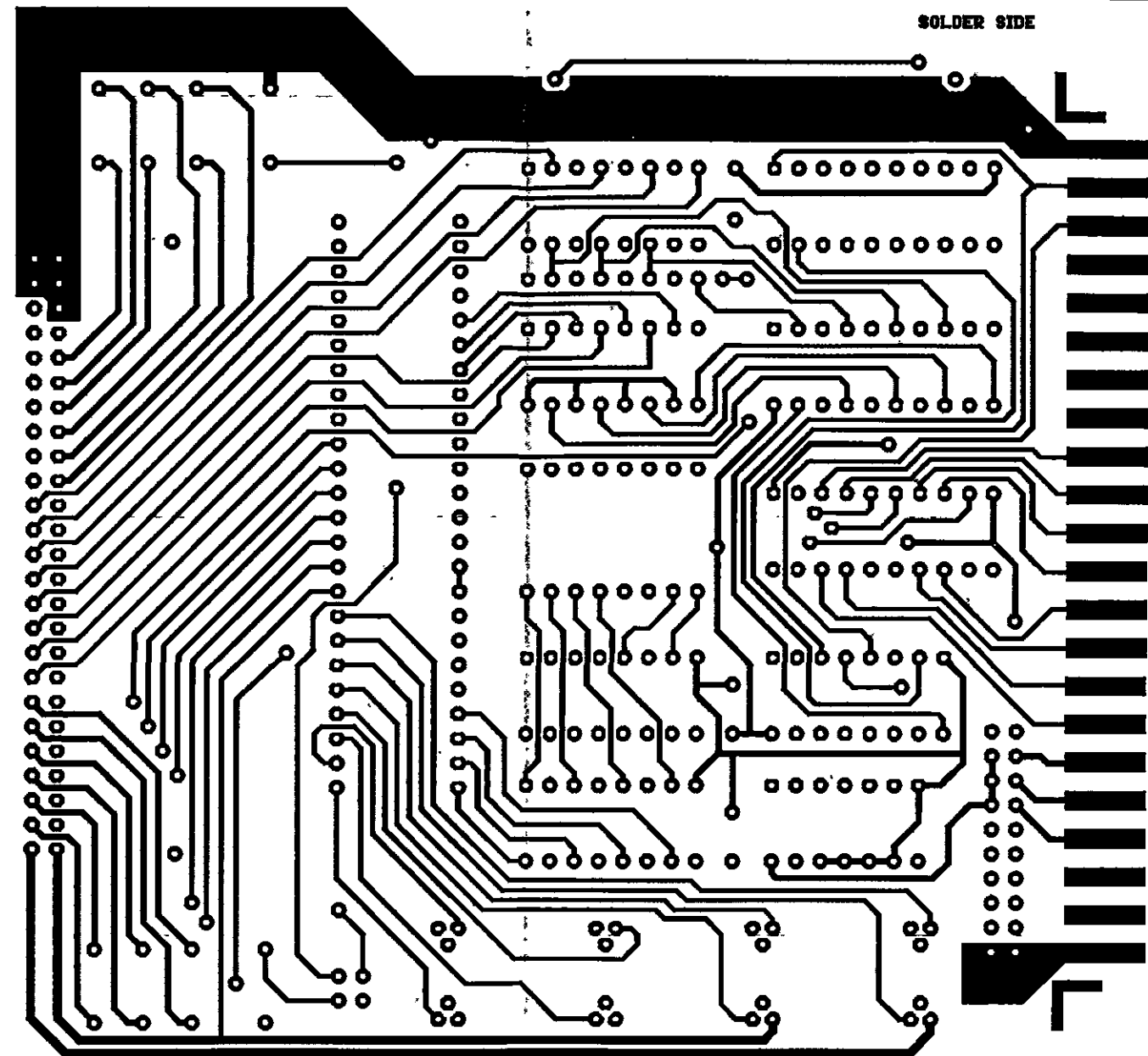
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ENGINEER HANSON		DATE 7/86	CLASS		FOR MATERIAL REQUIREMENTS SEE PARTS LIST	
CHECKER ERDMAN		9/86	TITLE		ALPHA ROBOTICS INCORPORATED	
APPROVAL ERDMAN		10/86	TITLE		RCS SS BLOCK DIAGRAM	
SIZE B		DWG'T NO.	PROJECT NO.		RK220	
SCALE		DRWG NUMBER 4, 1		SHEET 1 OF 1		

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REVISIONS				
LETTER	DESCRIPTION	CHK	DATE	APPROVED
-	ORIGINAL RELEASE	RAW	4/87	ERDMAN



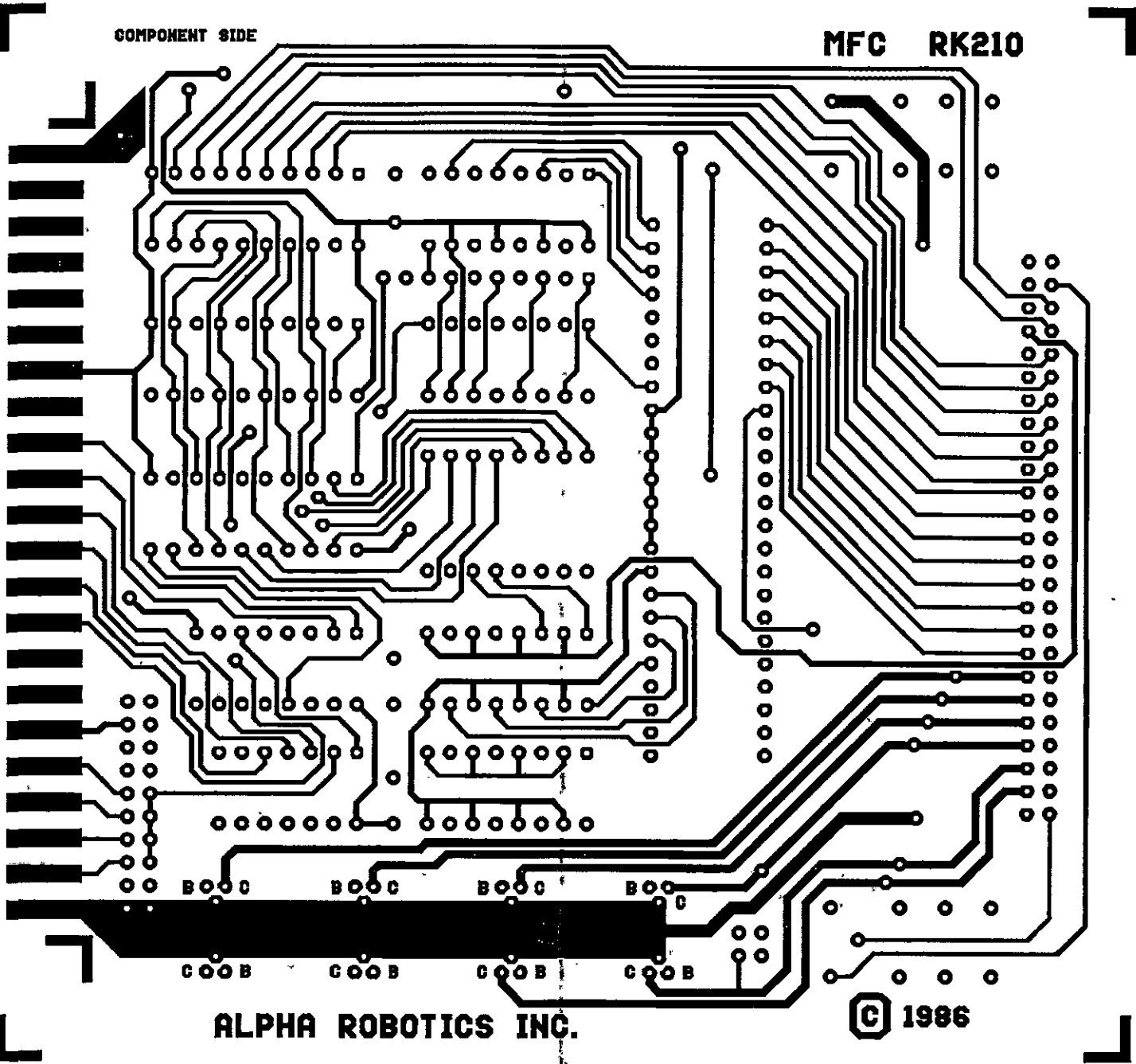
RK210 MASK 2 4-16-87 ARI/PDE

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FOR MATERIAL REQUIREMENTS SEE PARTS LIST	
ENGINEER ERDMAN	DATE 2/87
CHECKER WAGEN	3/87
APPROVAL ERDMAN	4/87
TITLE ALPHA ROBOTICS INCORPORATED RCS MFC PWB PHYSICAL SOLDER SIDE	
SIZE B	DOW'T NO. RK210 PROJECT NO.
SCALE	DRWG NUMBER 3.4 SHEET 3 OF 3

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REVISIONS				
LETTER	DESCRIPTION	CHK	DATE	APPROVED
	ORIGINAL RELEASE	RAW	4/87	ERDMAN



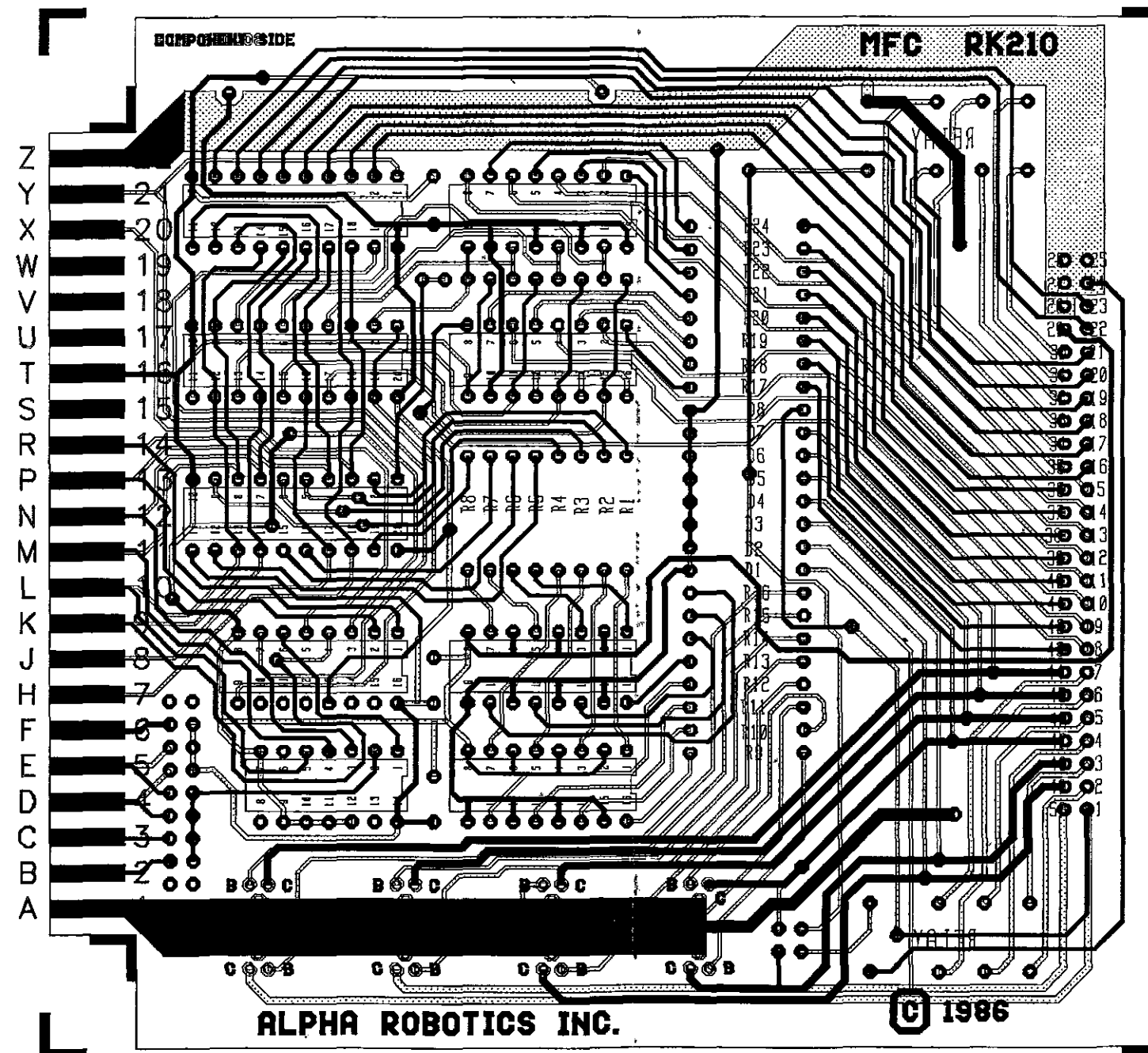
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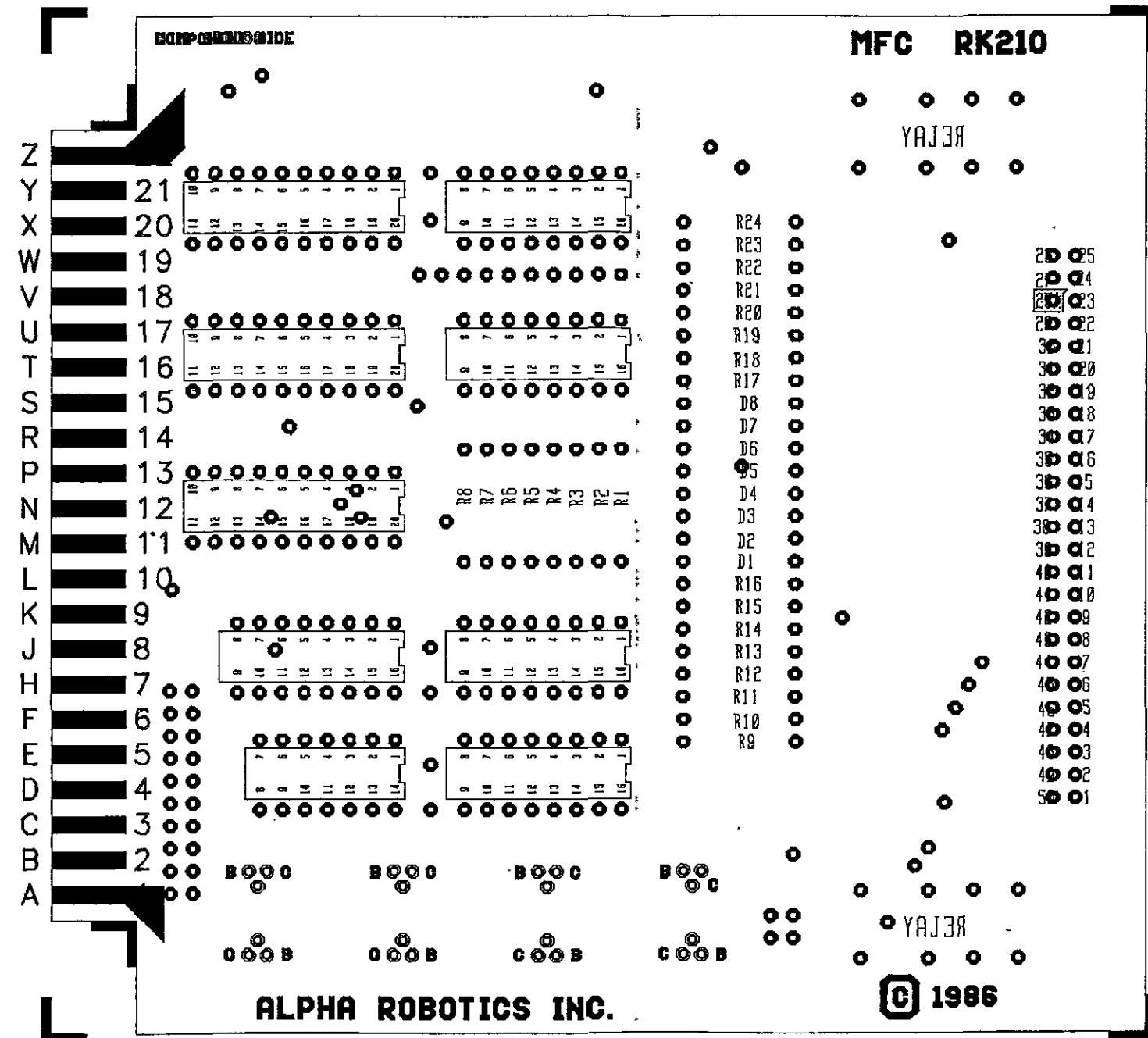
ENGINEER ERDMAN		DATE 2/87	CLASS ALPHA ROBOTICS INCORPORATED	
CHECKER WAGEN		3/87	TITLE RCS	
APPROVAL ERDMAN		4/87	PROJECT NO. RCU PWB PHYSICAL COMP SIDE	
SIZE B		DWG NO.	PROJECT NO. RK210	
SCALE		DRWG NUMBER 3, 4		SHEET 2 OF 3

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LETTER	DESCRIPTION	CHK DATE	APPROVED
	ORIGINAL RELEASE	RAY 4/87	ERDMAN



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LETTER	DESCRIPTION	CHK	DATE	APPROVED
-	ORIGINAL RELEASE	XXX	XX/XX	XXXXXX



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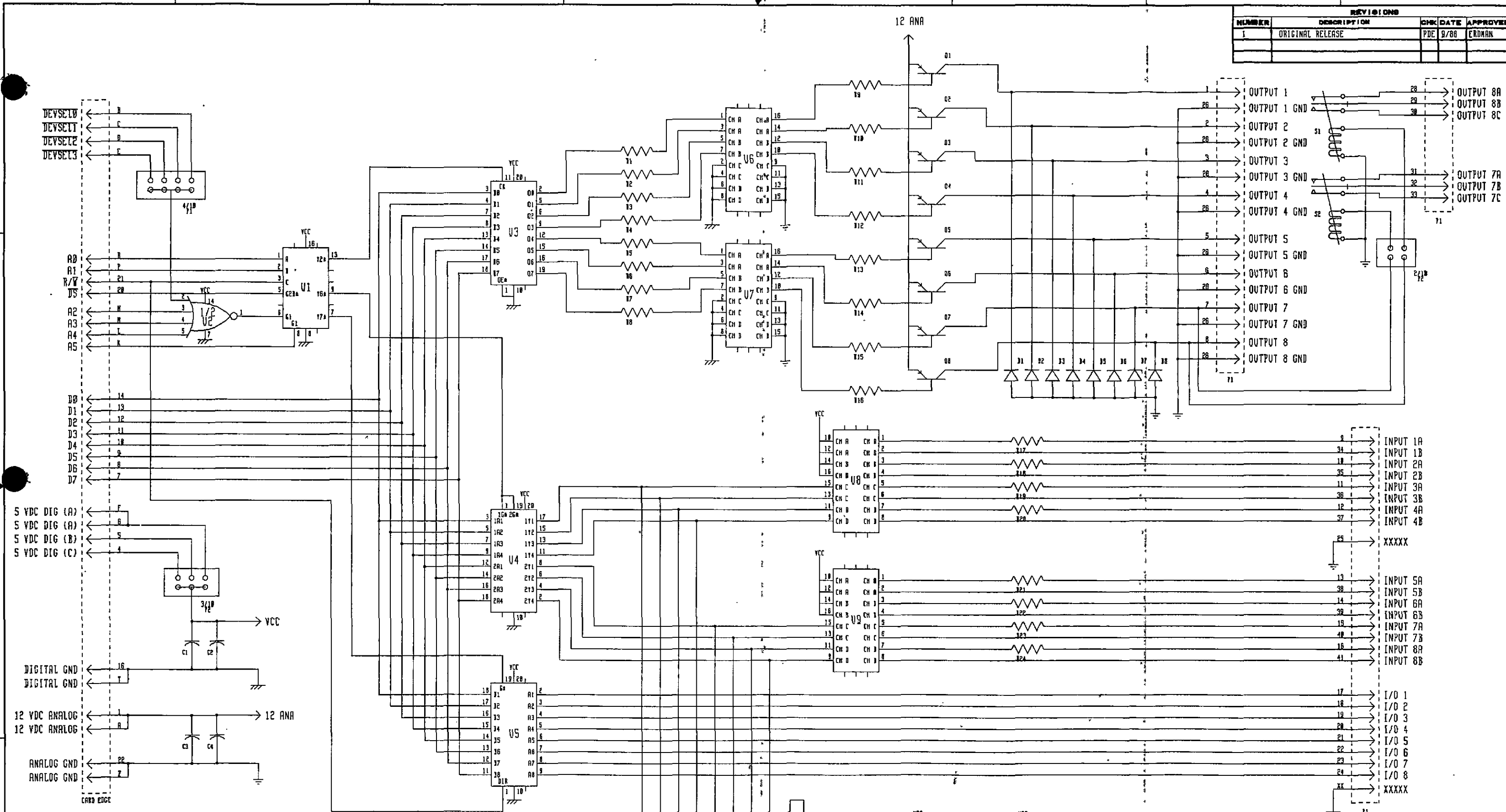
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FOR MATERIAL REQUIREMENTS SEE PARTS LIST

ENGINEER ERDMAN	DATE 2/87	CLASS B	ALPHA ROBOTICS INCORPORATED TITLE RCS MFC COMPONENT LAYOUT
CHECKER NAGEN	3/87		
APPROVAL ERDMAN	4/87		
SIZE B		DDT NO.	PROJECT NO. RK210
SCALE		DRWG NUMBER 3, 3	SHEET 1 OF 1

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REVISIONS				
NUMBER	DESCRIPTION	CHK	DATE	APPROVED
1	ORIGINAL RELEASE	PDE	9/88	ERDMAN



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REPRESENTS AN ANALOG GROUND.

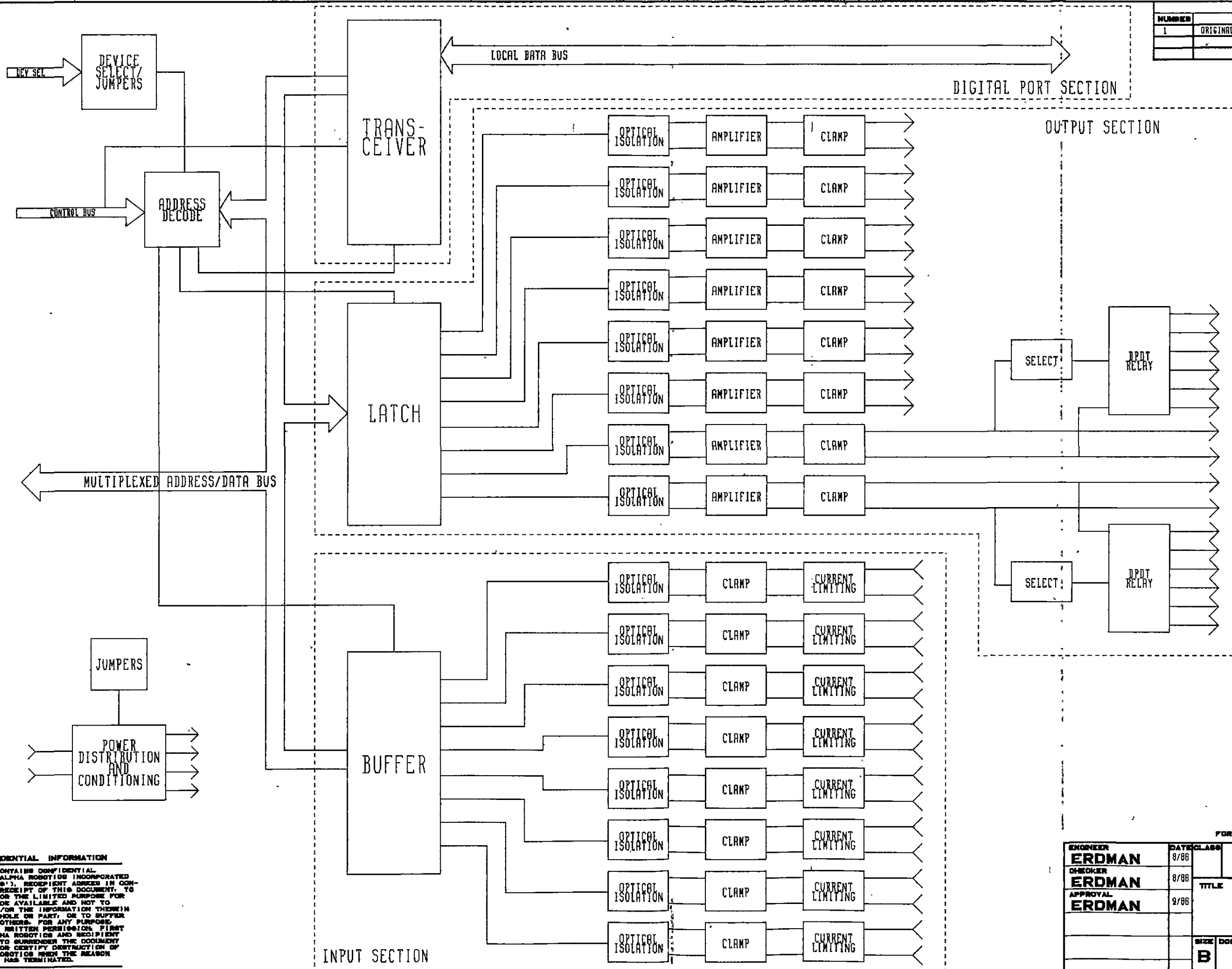
REPRESENTS A DIGITAL GROUND.

A .1 MFD DISC DE-COUPLING CAPACITOR MUST BE INSTALLED FOR EVERY 3 IC'S.

ENGINEER ERDMAN	DATE/CLASS 8/88	ALPHA ROBOTICS INCORPORATED	
CHECKER ERDMAN	8/88	TITLE RCS MFC SCHEMATIC	
APPROVAL ERDMAN	9/88	SIZE DOD-T NO. PROJECT NO. B RK210	
SCALE		DRWG NUMBER 3.2	SHEET 1 OF 1

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REVISIONS			
NUMBER	DESCRIPTION	CHK DATE	APPROVED
1	ORIGINAL RELEASE	PDE 9/86	ERDMAN



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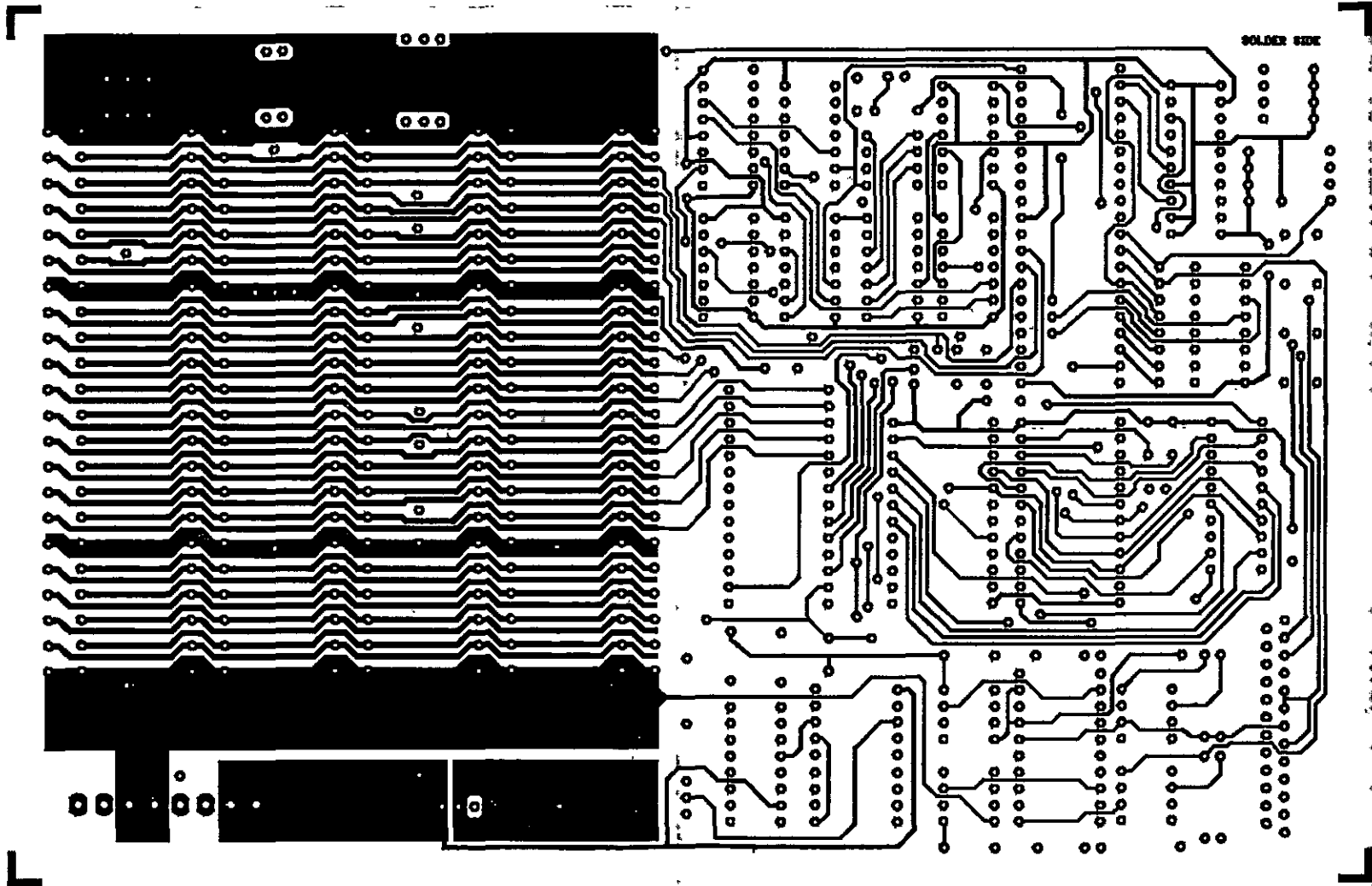
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FOR MATERIAL REQUIREMENTS SEE PARTS LIST

ENGINEER ERDMAN	DATE 8/86	ALPHA ROBOTICS INCORPORATED TITLE RCS MFC BLOCK DIAGRAM
CHECKER ERDMAN	8/86	
APPROVAL ERDMAN	9/86	
SIZE B		PROJECT NO. RK210
SCALE		DRWG NUMBER 3.1
SHEET		OF 1

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REVISIONS				
LETTER	DESCRIPTION	CHK	DATE	APPROVED
	ORIGINAL RELEASE	RAW	3/87	ERDMAN



RK200 MASK 2 3-16-87 ARI/PDE

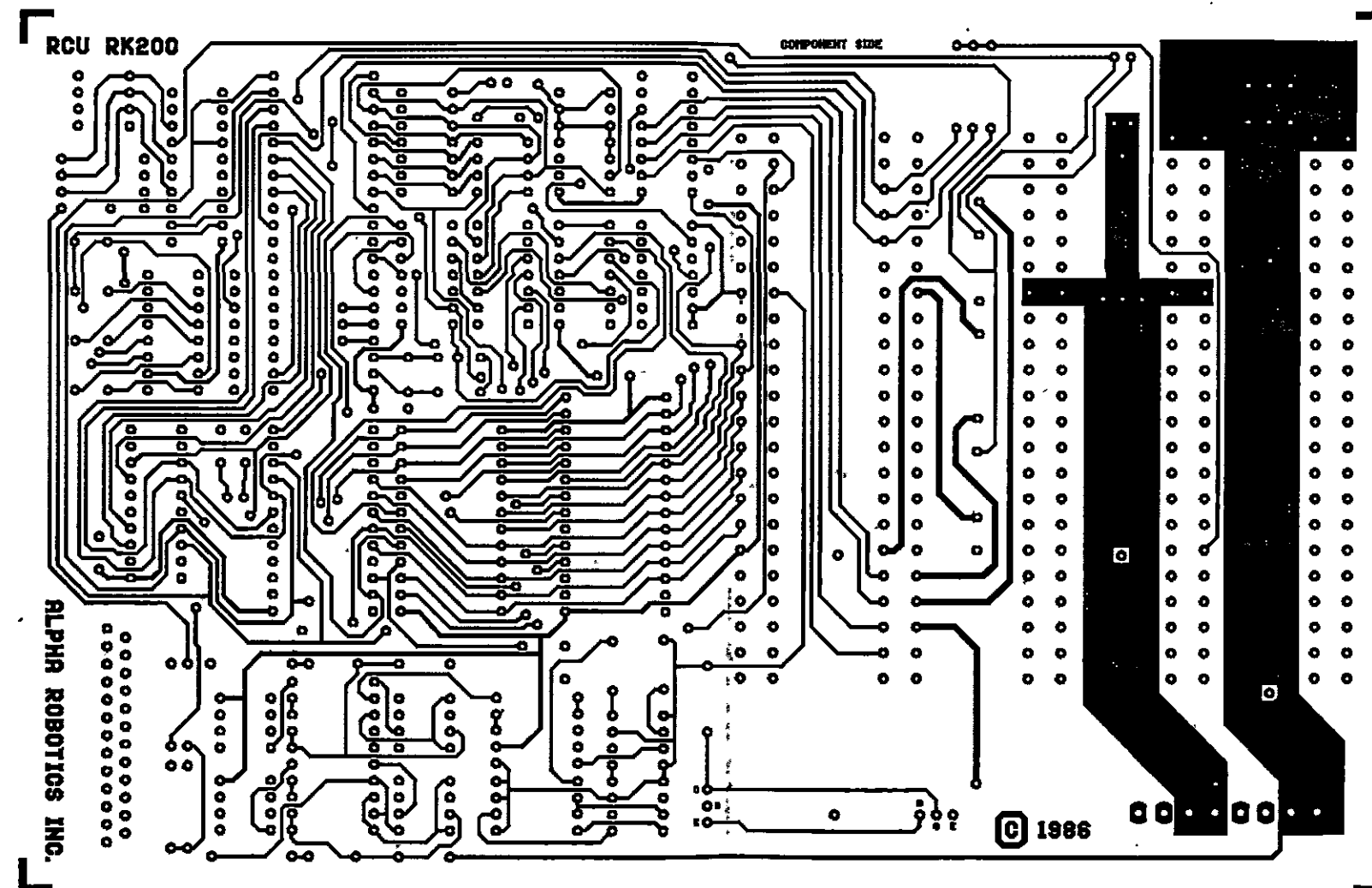
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ENGINEER ERDMAN		DATE 1/87	CLASS ALPHA ROBOTICS INCORPORATED	
CHECKER WAGEN		DATE 2/87	TITLE RCS RCU PWB PHYSICAL SOLDER SIDE	
APPROVAL ERDMAN		DATE 3/87		
		SIZE B	DWG. NO. RK200	PROJECT NO.
		SCALE	DWG. NUMBER 2.4	SHEET 3 OF 3

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RK200 MASK 1 3-16-87 ARI/PDE

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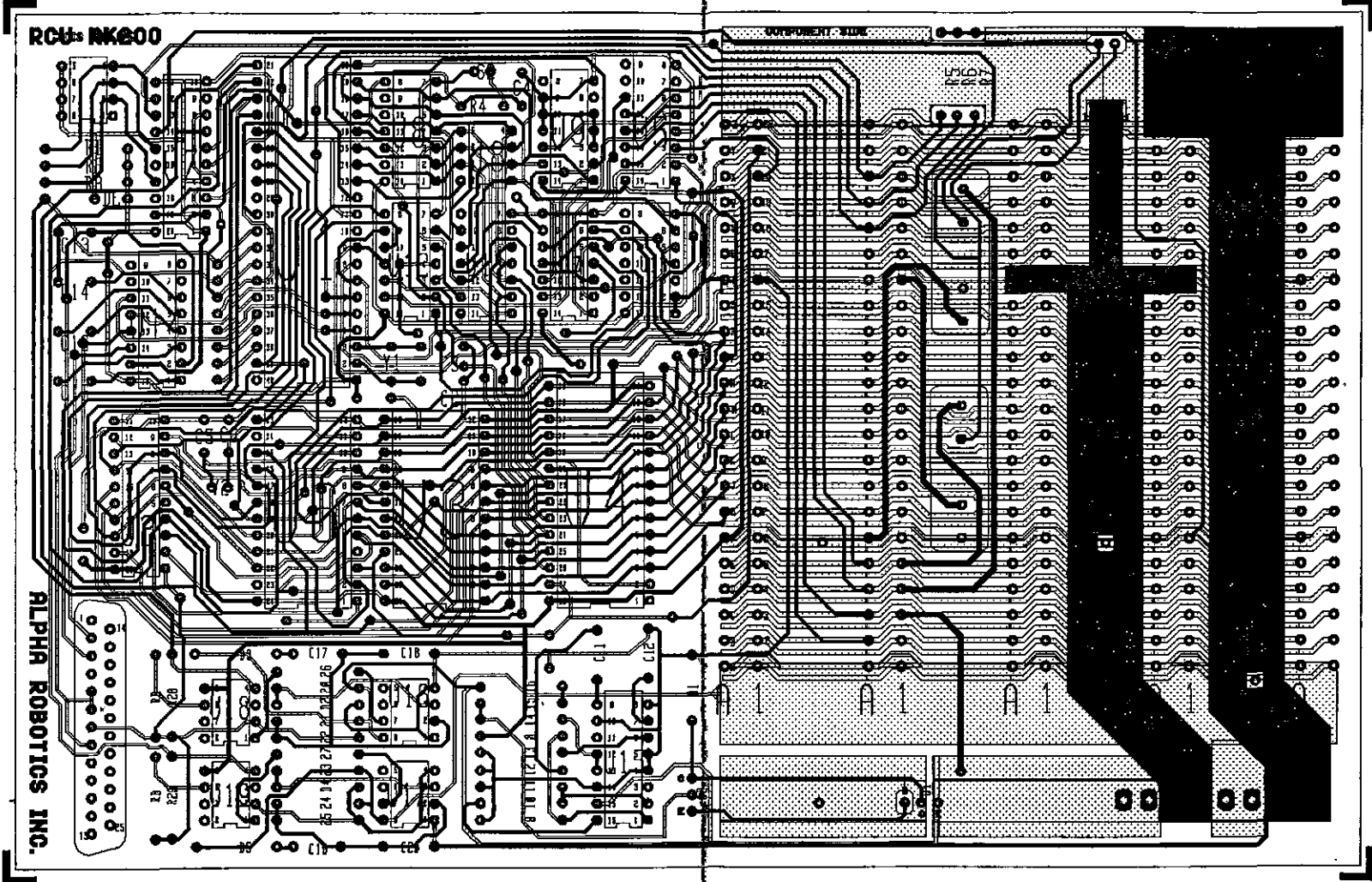
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FOR MATERIAL REQUIREMENTS SEE PARTS LIST

ENGINEER ERDMAN	DATE 1/87	ALPHA ROBOTICS INCORPORATED	
CHECKER WAGEN	2/87	TITLE RCS RCU PWB PHYSICAL COMP SIDE	
APPROVAL ERDMAN	3/87		
		SIZE B	PROJECT NO. RK200
		SCALE	DWG NUMBER 2.4 SHEET 2 of 3

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	ORIGINAL RELEASE	RAY	3/87	ERDMAN



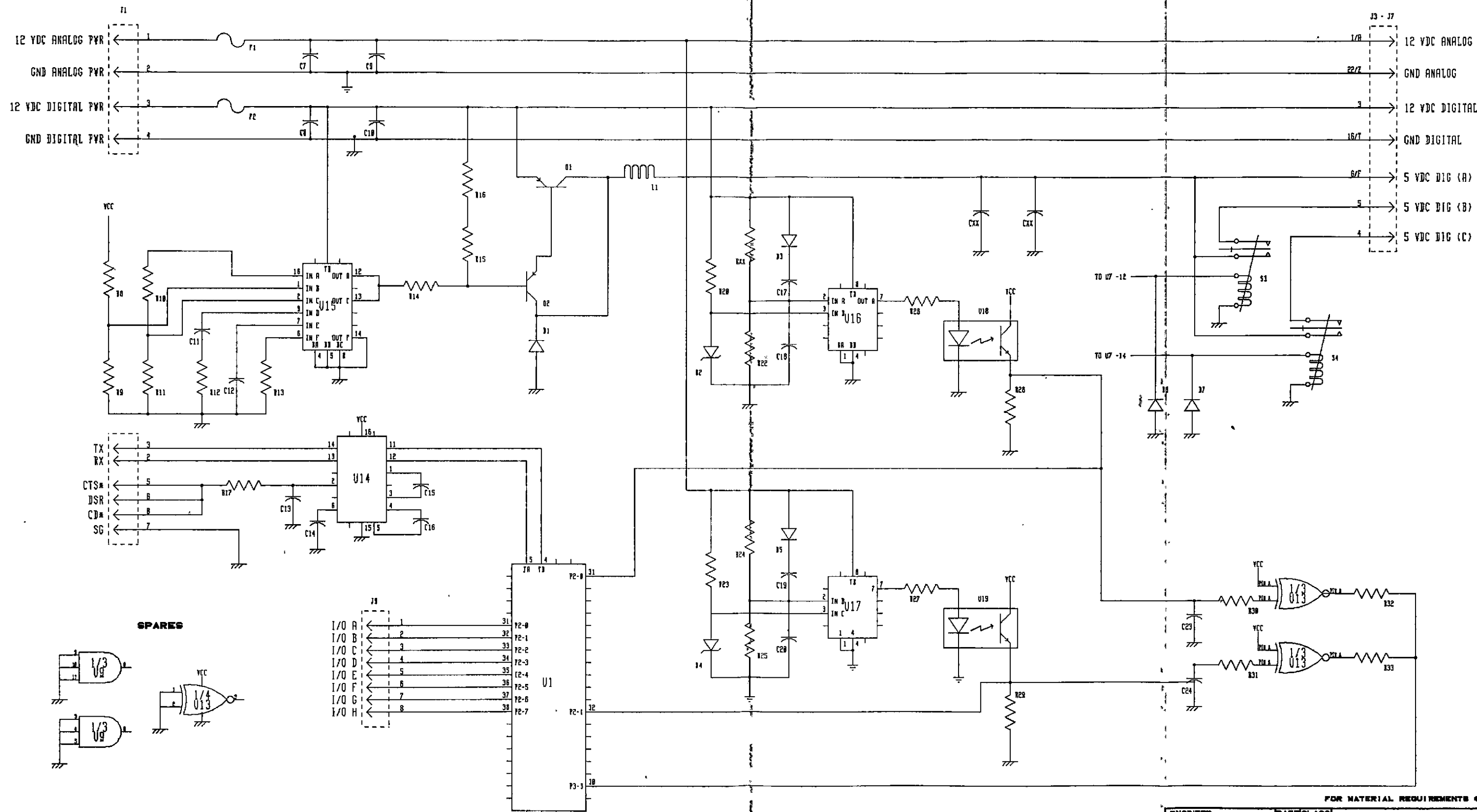
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ENGINEER ERDMAN	DATE 1/87	CLASS ALPHA ROBOTICS INCORPORATED
CHECKER WAGEN	DATE 2/87	TITLE RCS RCU PWB PHYSICAL COMPOSITE
APPROVAL ERDMAN	DATE 3/87	SIZE B
		DWG NO. RK200
		PROJECT NO.
		SCALE DO NOT SCALE THIS PRINT
		DWG NUMBER 2.4
		SHEET 1 OF 3

REVISIONS			
NUMBER	DESCRIPTION	CHK DATE	APPROVED
1	ORIGINAL RELEASE	PDE 8/86	ERDMAN



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NOTES

- 1.) $\perp$ REPRESENTS AN ANALOG GROUND.
- 2.) $\perp$ REPRESENTS A DIGITAL GROUND.
- 3.) A .1 MFD DISC DE-COUPLING CAPACITOR MUST BE INSTALLED FOR EVERY 3 IC'S.

FOR MATERIAL REQUIREMENTS SEE PARTS LIST			
ENGINEER ERDMAN	DATE/CLASS 1/86	ALPHA ROBOTICS	
CHECKER ERDMAN	5/86	INCORPORATED	
APPROVAL ERDMAN	9/86	TITLE	
		RCS	
		RCU SCHEMATIC	
SIZE B	DOC'T NO. B	PROJECT NO. RK200	
SCALE	DRWG NUMBER 2.3	SHEET 2 OF 2	

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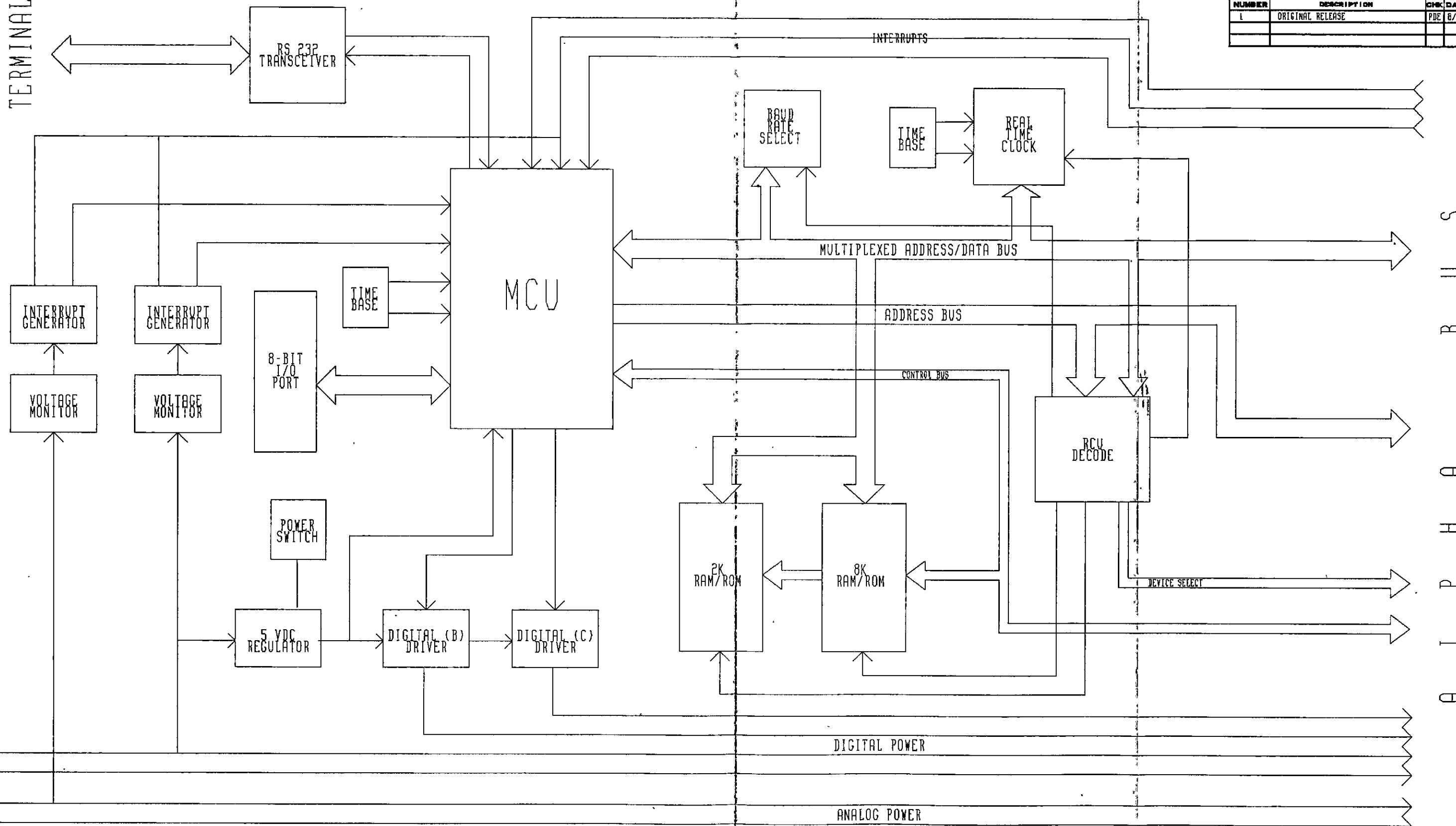
REVISIONS			
NUMBER	DESCRIPTION	CHK	DATE
1	ORIGINAL RELEASE	PDE	8/86
		ERDMAN	

TERMINAL

POWER SUPPLY

ALPHA B U S

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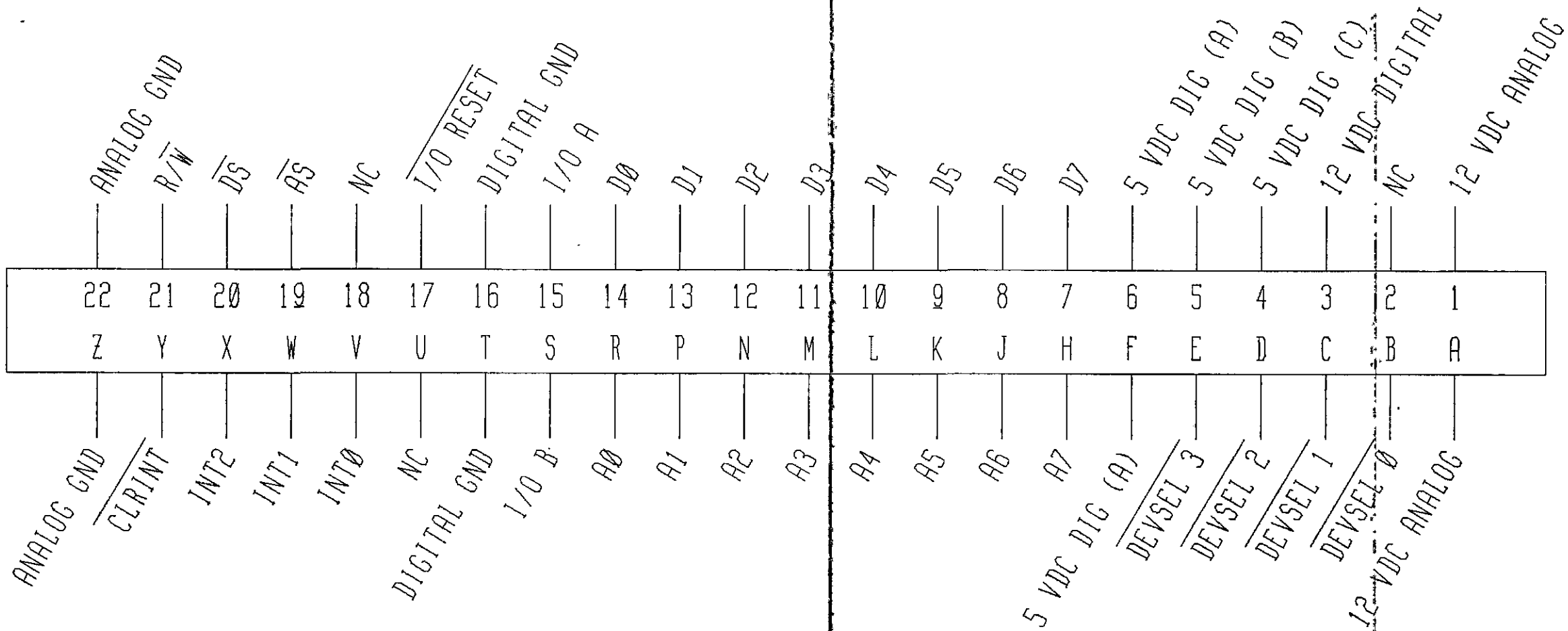


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ENGINEER HANSON	DATE 7/86	CLASS	ALPHA ROBOTICS INCORPORATED
CHECKER ERDMAN	7/86		
APPROVAL ERDMAN	8/86		
TITLE RCS RCU BLOCK DIAGRAM			
SIZE B	DOC'T NO.	PROJECT NO. Rk200	
SCALE	DRWG NUMBER 2.1	SHEET 1 OF 1	

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REVISIONS				
NUMBER	DESCRIPTION	CHK	DATE	APPROVED
1	ORIGINAL RELEASE	PDE	7/86	ERDMAN



NOTES:
1.) CARD EDGE SOCKET, SHOWN ON RCU COMPONENT SIDE.

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FOR MATERIAL REQUIREMENTS SEE PARTS LIST		
ENGINEER ERDMAN	DATE 3/86	CLASS ALPHA ROBOTICS INCORPORATED
CHECKER ERDMAN	5/86	
APPROVAL ERDMAN	7/86	
TITLE RCS SYSTEM BUS LAYOUT		
SIZE B	DWG NO. RK2XX	PROJECT NO.
SCALE	DWG NUMBER 1, 2	SHEET OF 1
DO NOT SCALE THIS PRINT		