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APR 12 2005

A.D.DATA SYSTEMS, INC.

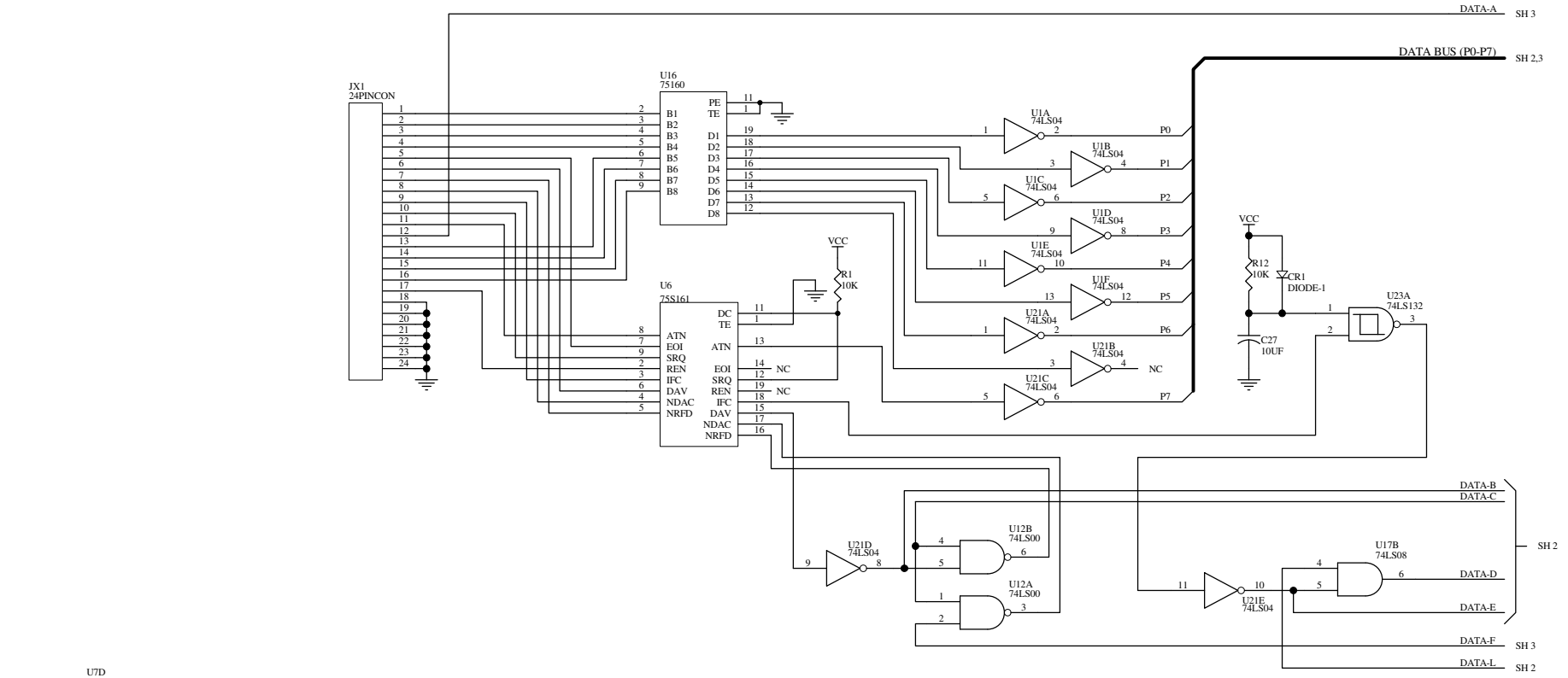
DATA ACQUISITION AND SWITCHING SYSTEMS

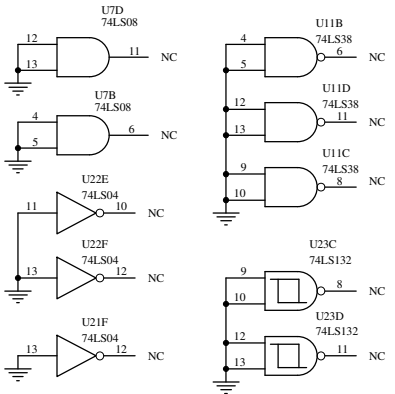
SERIES 56E SWITCHING MATRIX

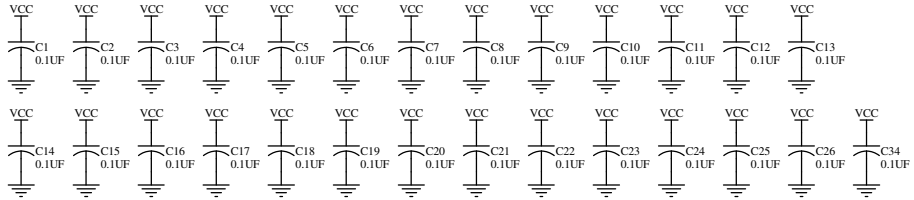
Drawing Manual

New Drawings

1005394E sch	Listen Only IEEE488 Control Module Schematic
1005296C sch	Front Panel Board
1005343 sch	2x10 - 2 wire Switch Module
1005346B sch	2(10x1)-2 Wire Switch Module







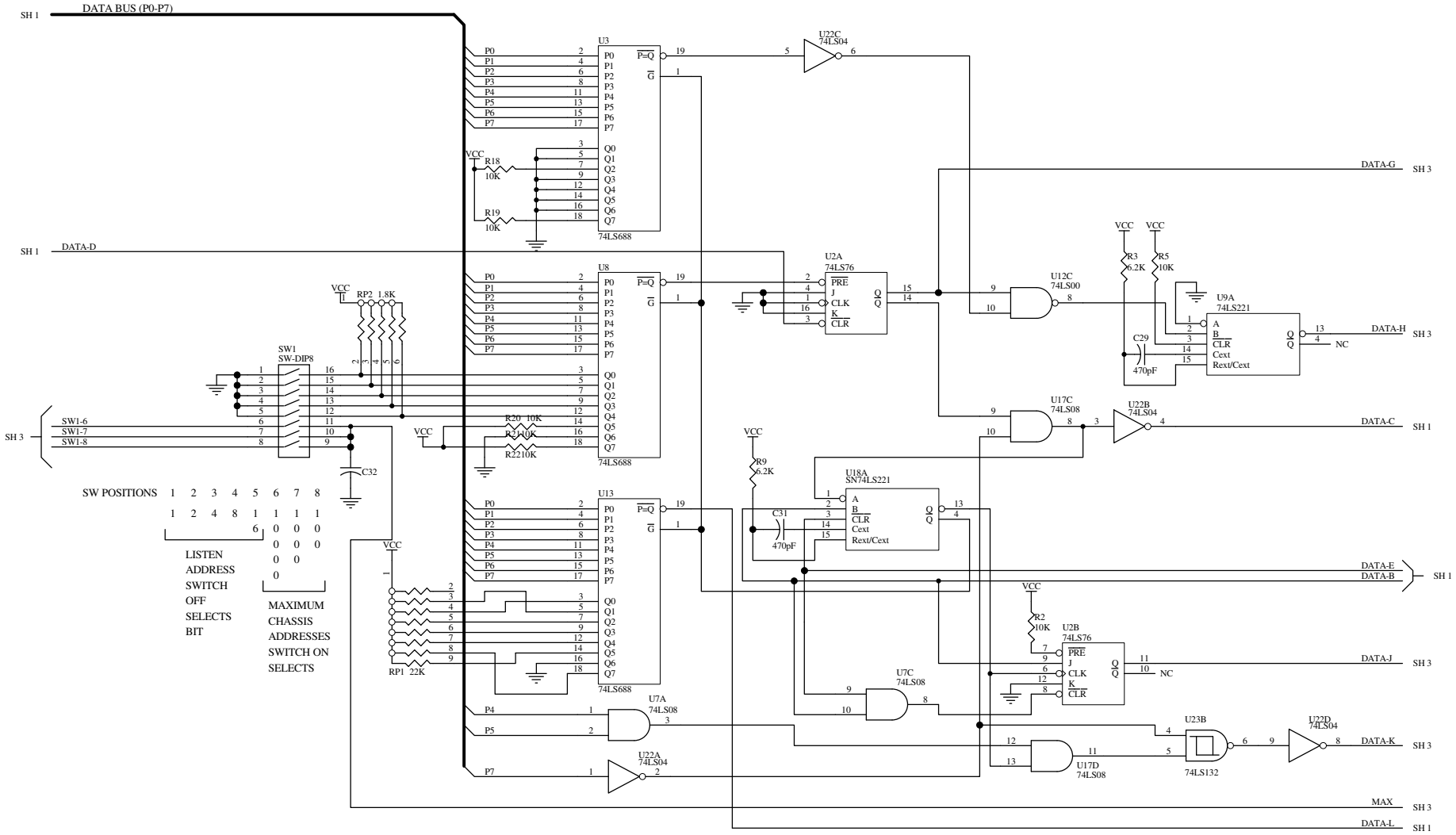
NOTE:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE IN OHMS, 1/4W, 5%.

REVISED FROM:

CYTEC CORP.

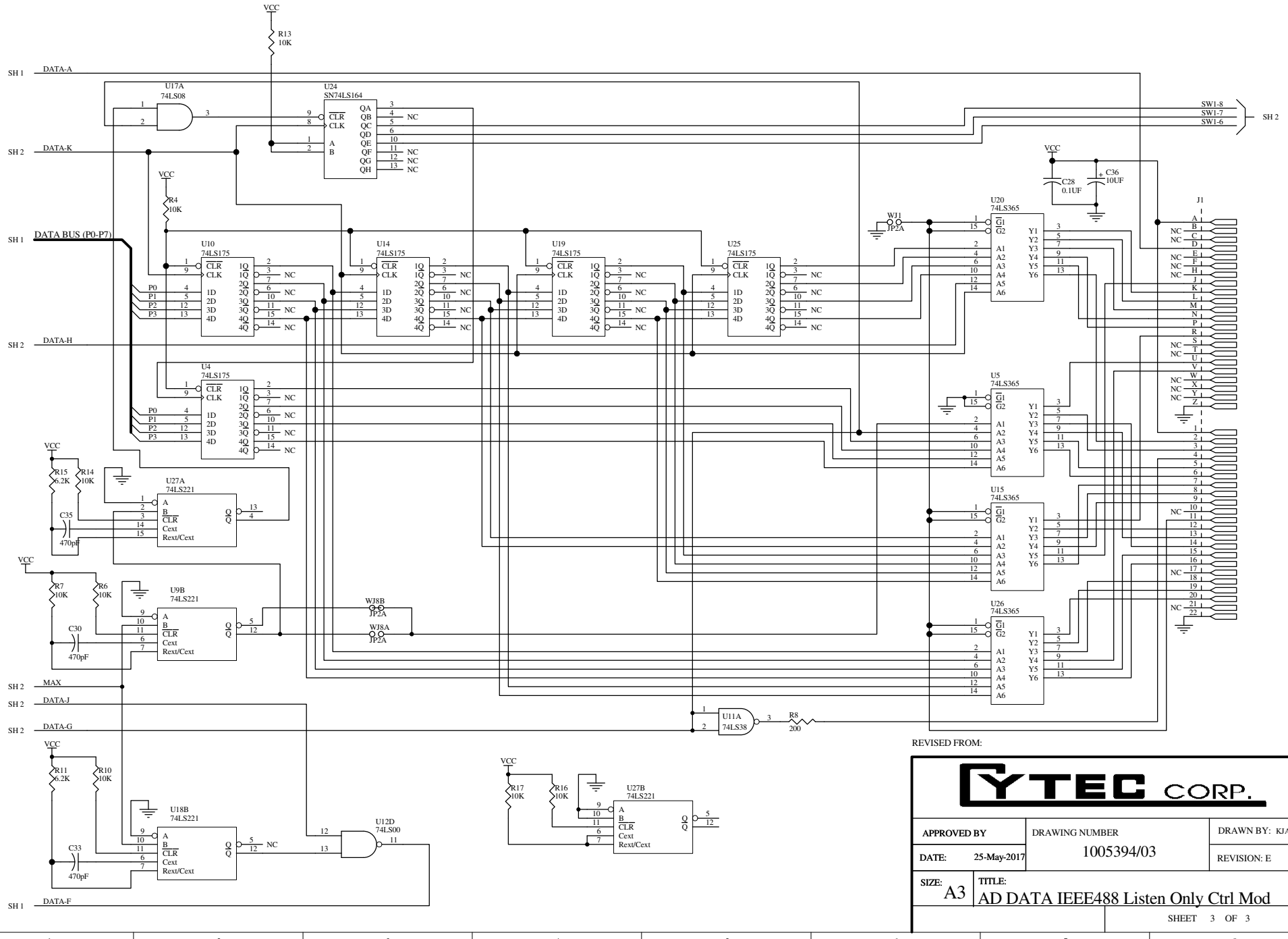
APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 25-May-2017	1005394/01	REVISION: E
SIZE: A3	TITLE: AD DATA IEEE488 Listen Only Ctrl Mod	
		SHEET 1 OF 3

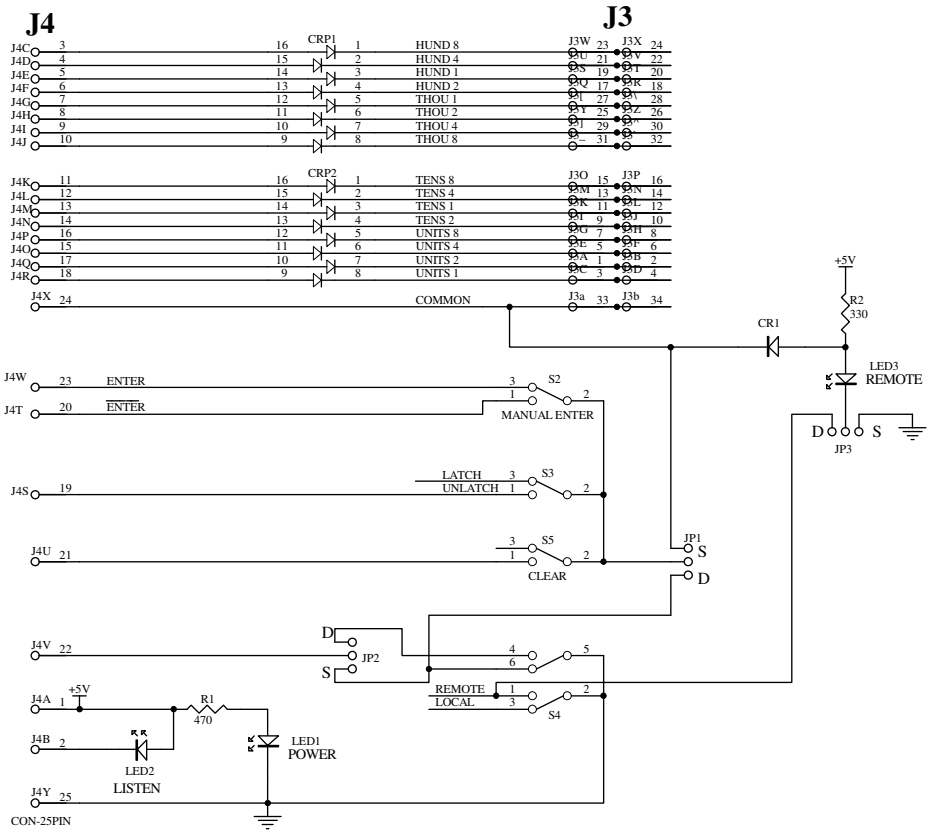


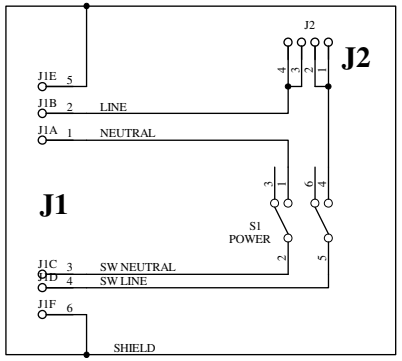
REVISED FROM:

CYTEC CORP.

APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 25-May-2017	1005394/02	REVISION: E
SIZE: A3	TITLE: AD DATA IEEE488 Listen Only Ctrl Mod	
		SHEET 2 OF 3


VCC
R13 10K
SH 1
DATA-A
U17A 74LS08
U24 SN74LS164
SH 2
DATA-K
SW1-8
SW1-7
SW1-6
SH 2
VCC
R4 10K
C28 0.1UF
C36 10UF
SH 1
DATA BUS (P0-P7)
U10 74LS175
U14 74LS175
U19 74LS175
U25 74LS175
WJ1 JP2A
U20 74LS365
J1
SH 2
DATA-H
U4 74LS175
U5 74LS365
U15 74LS365
U26 74LS365
VCC
R15 6.2K
R14 10K
U27A 74LS221
C35 470pF
VCC
R7 10K
R6 10K
U9B 74LS221
C30 470pF
WJ8B JP2A
WJ8A JP2A
SH 2
MAX
SH 2
DATA-J
SH 2
DATA-G
U11A 74LS38
R8 200
VCC
R11 6.2K
R10 10K
U18B 74LS221
C33 470pF
U12D 74LS00
VCC
R17 10K
R16 10K
U27B 74LS221
SH 1
DATA-F
REVISED FROM:
YTEC CORP.
APPROVED BY
DRAWING NUMBER
1005394/03
DRAWN BY: KJA
DATE: 25-May-2017
REVISION: E
SIZE: A3
TITLE:
AD DATA IEEE488 Listen Only Ctrl Mod
SHEET 3 OF 3





NOTES:

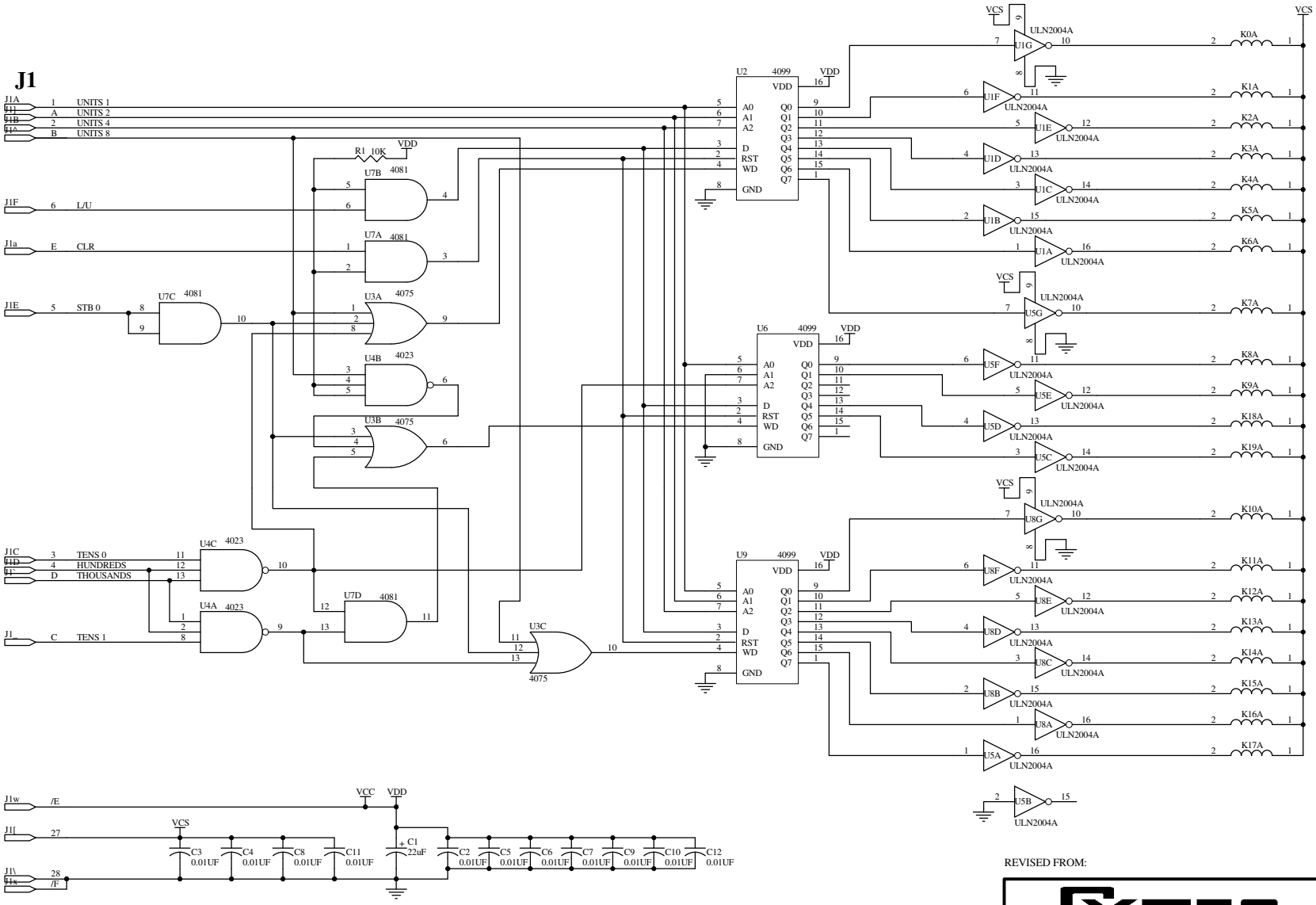
1. **-1 VERSION FOR NON-INTELLIGENT SYSTEMS**
   "D" JUMPERS INSTALLED, S4 - PADDLE SWITCH

2. **-2 VERSION FOR INTELLIGENT SYSTEMS**
   "S" JUMPERS INSTALLED, S4 - MOMENTARY SWITCH

3. **ALL UNMARKED DIODES 1N4148**

CYTEC CORP.

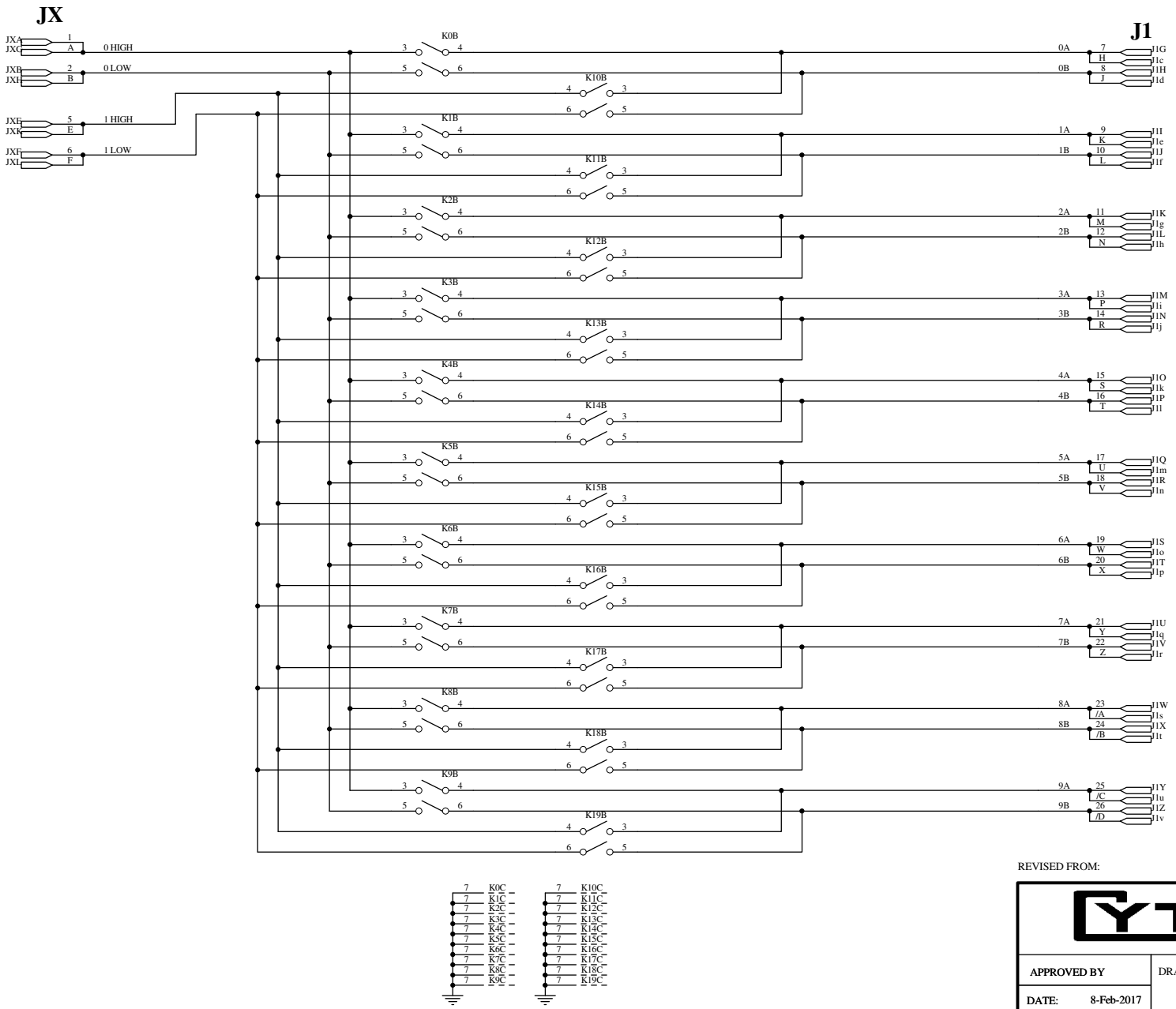
APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 7-Mar-2017	1005296C	REVISION:
SIZE: B	TITLE: AD DATA Front Panel Board	
1005296C.SCH		SHEET 1 OF 1



REVISED FROM:

CYTEC CORP.

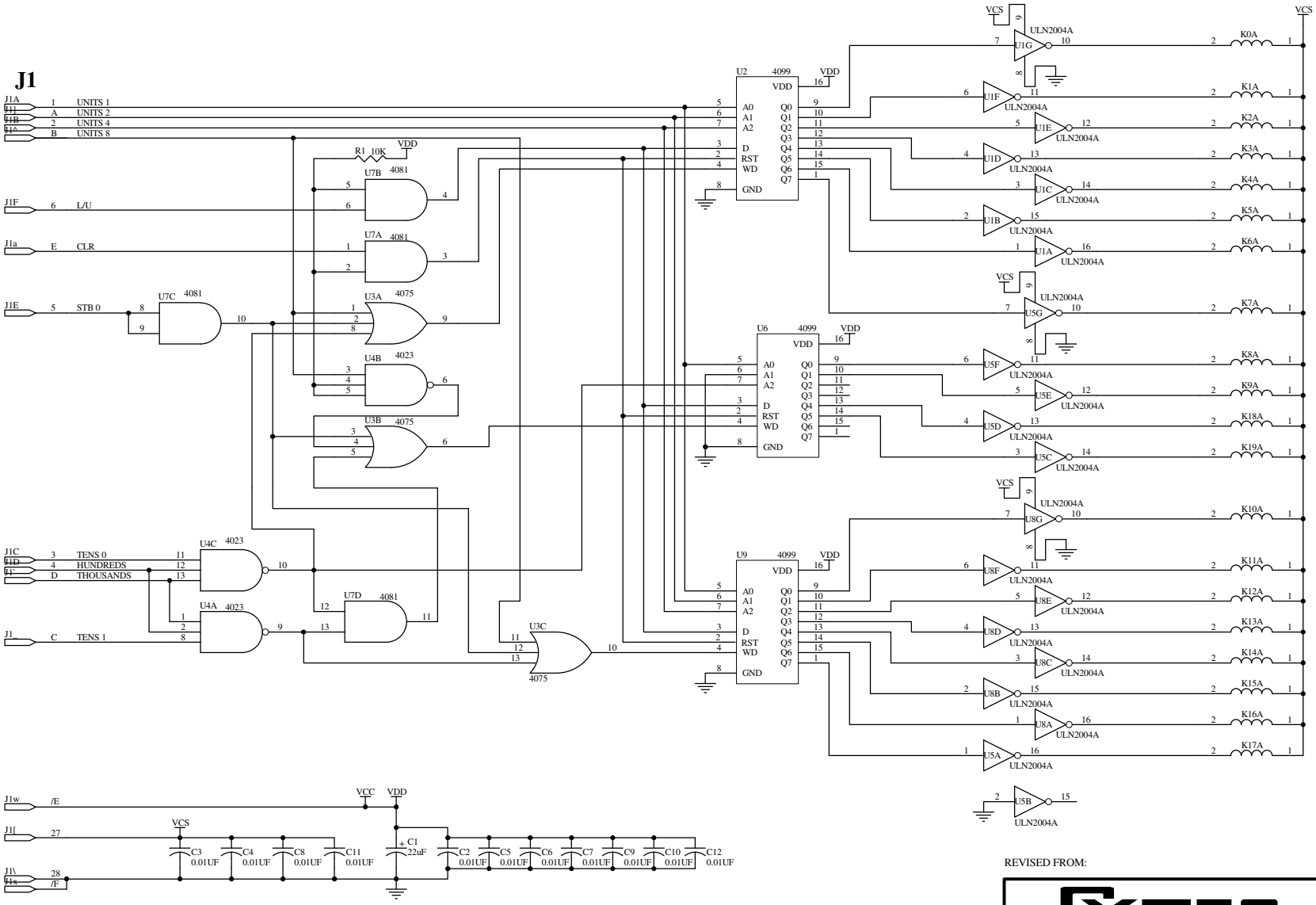
APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 8-Feb-2017	1005343/01	REVISION:
SIZE: A3	TITLE: AD DATA 2x10 Switch Module	
		SHEET 1 OF 2



REVISED FROM:

CYTEC CORP.

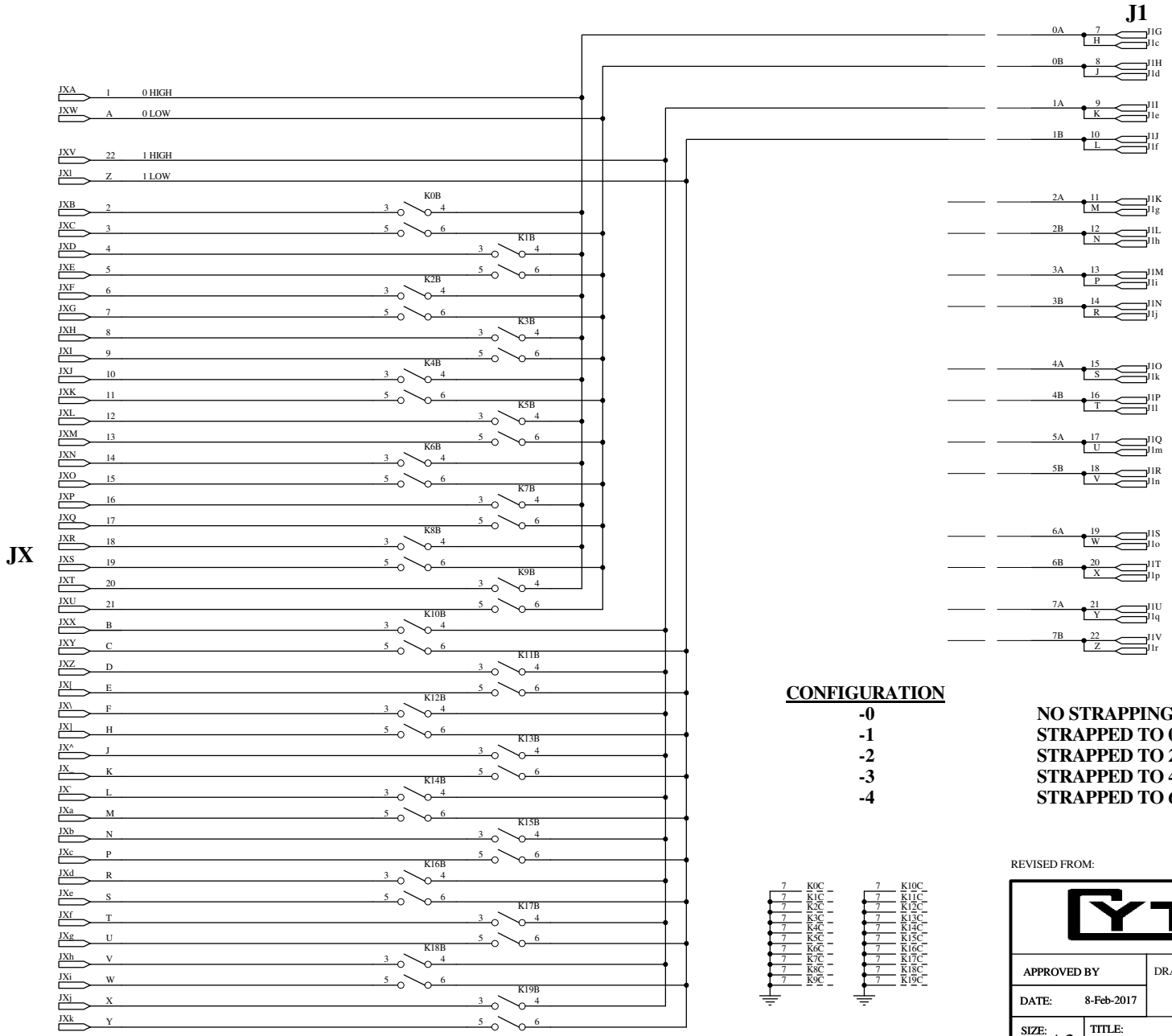
APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 8-Feb-2017	1005343/02	REVISION:
SIZE: A3	TITLE: AD DATA 2x10 Switch Module	
		SHEET 2 OF 2



REVISED FROM:

CYTEC CORP.

APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 8-Feb-2017	1005346/01	REVISION: B
SIZE: A3	TITLE: AD DATA 2(10x1) Switch Module	
		SHEET 1 OF 2



CONFIGURATION

-0	**NO STRAPPING**
-1	**STRAPPED TO 0A/0B, 1A/1B**
-2	**STRAPPED TO 2A/2B, 3A/3B**
-3	**STRAPPED TO 4A/4B, 5A/5B**
-4	**STRAPPED TO 6A/6B, 7A/7B**

REVISED FROM:

CYTEC CORP.

APPROVED BY	DRAWING NUMBER	DRAWN BY: KJA
DATE: 8-Feb-2017	1005346/02	REVISION: B
SIZE: A3	TITLE: AD DATA 2(10x1) Switch Module	
		SHEET 2 OF 2

DRAWING MANUAL - Table of Contents

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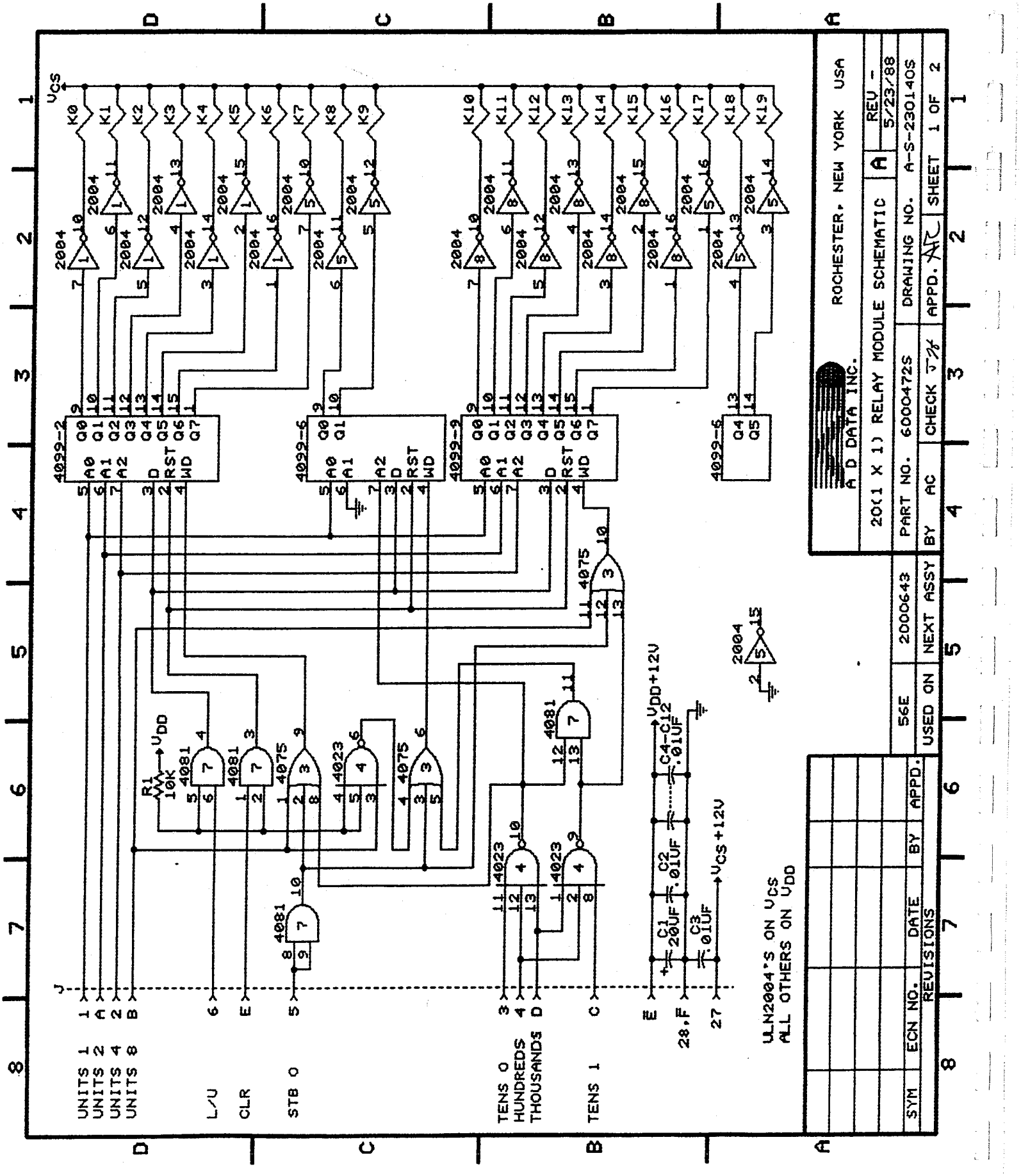
SECTION S5 - 5630 SCHEMATICS

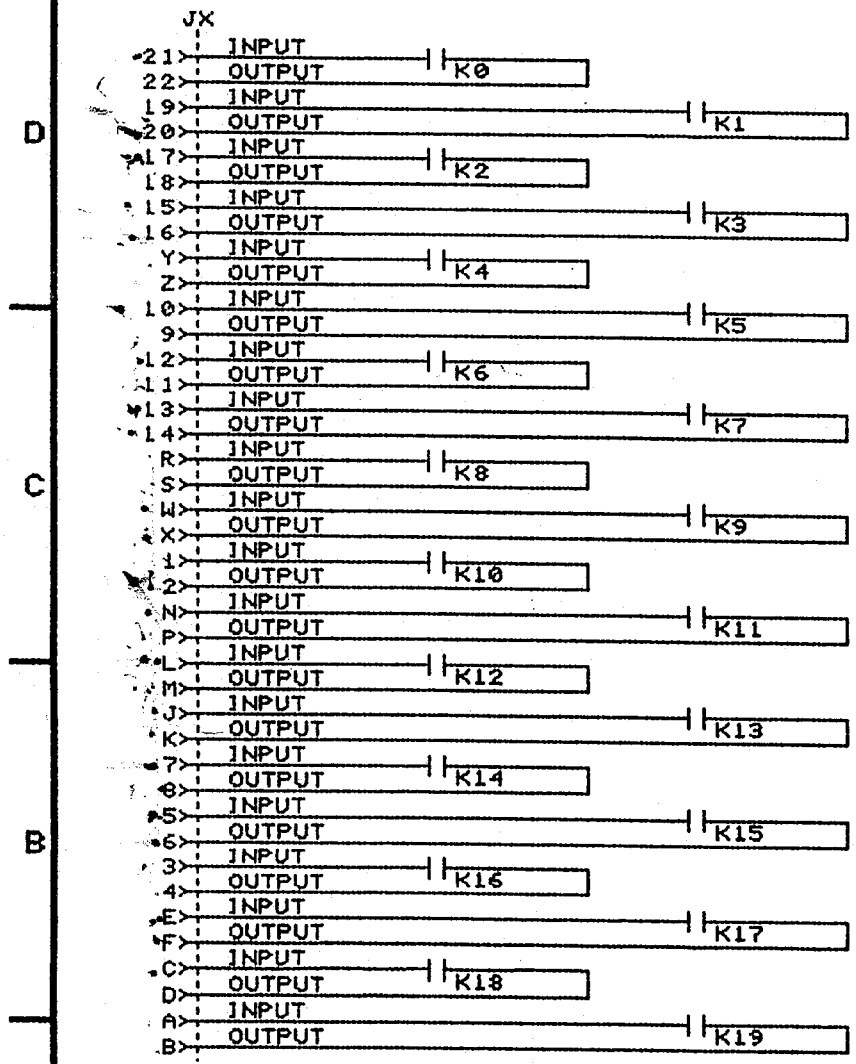
MODEL	DESCRIPTION	PAGE
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930061	Mother Board.....	S5-19

SECTION A1 - ADDENDUMS

SECTION S1 - 5600 RELAY AND SPECIAL-PURPOSE MODULE SCHEMATICS

S1-1

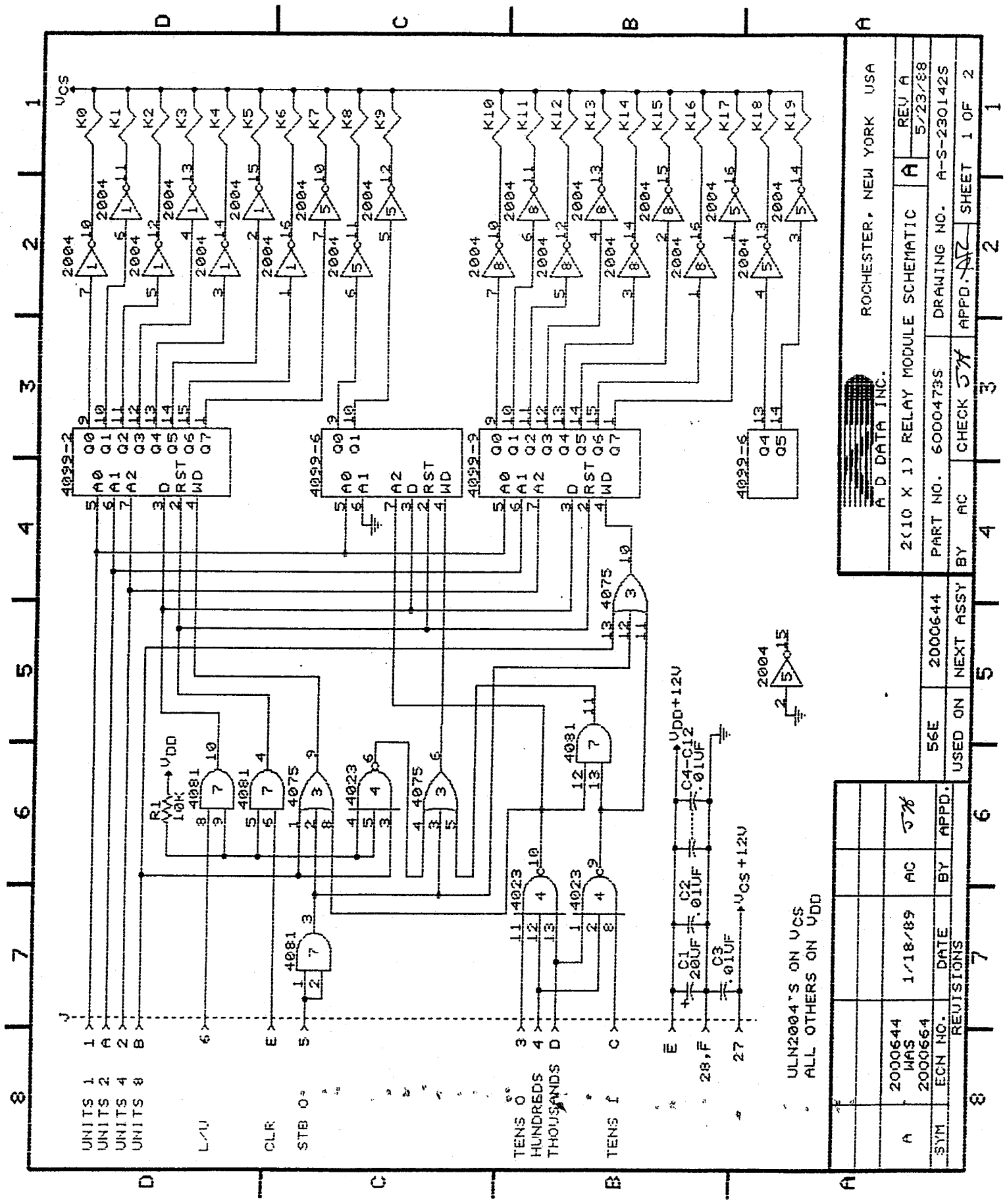

ROCHESTER, NEW YORK USA
A D DATA INC.
20(1 X 1) RELAY MODULE SCHEMATIC
REV - A 5/23/88
PART NO. 6000472S
DRAWING NO. A-S-230140S
BY AC
CHECK
APPD.
SHEET 1 OF 2
56E 2000643
USED ON NEXT ASSY
SYM ECN NO. DATE BY APPD.
REVISIONS
ULN2004'S ON UCS
ALL OTHERS ON UDD
UNITS 1
UNITS 2
UNITS 4
UNITS 8
L/U
CLR
STB 0
TENS 0
HUNDREDS
THOUSANDS
TENS 1
UDD+12V
UCS +12V
R1 10K
C1 20UF
C2 .01UF
C3 .01UF
C4-C12 .01UF

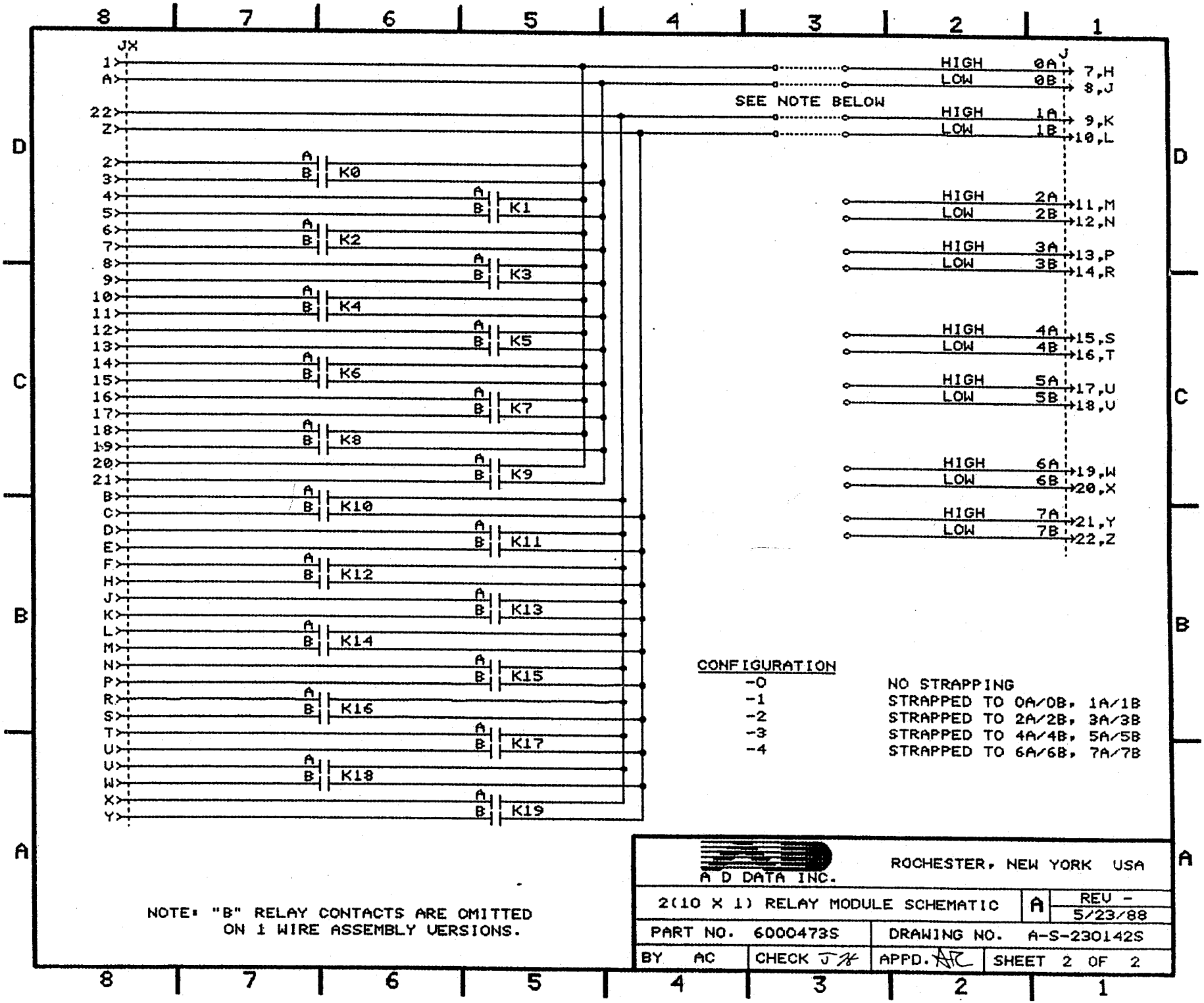


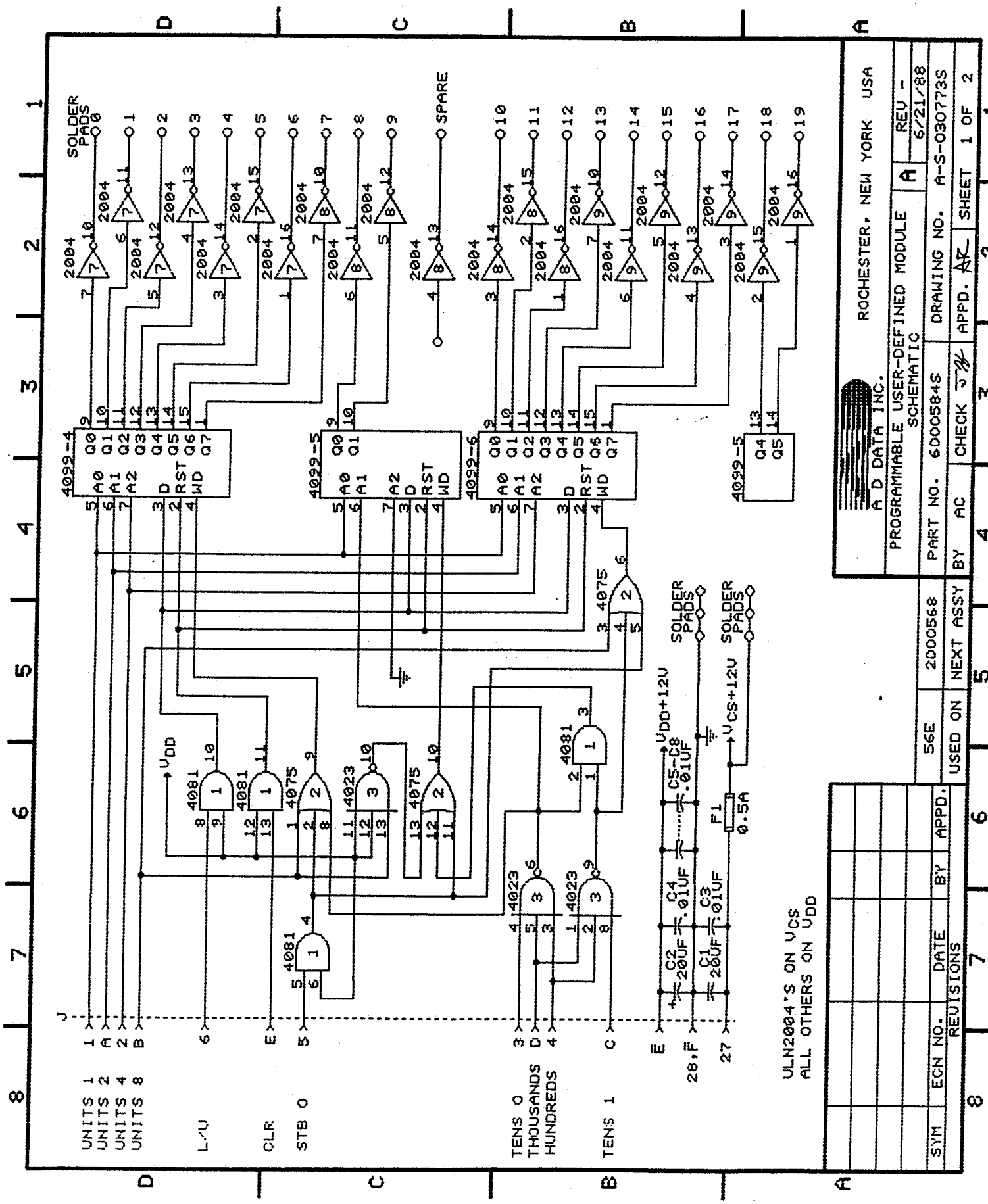
A D DATA INC. ROCHESTER, NEW YORK USA

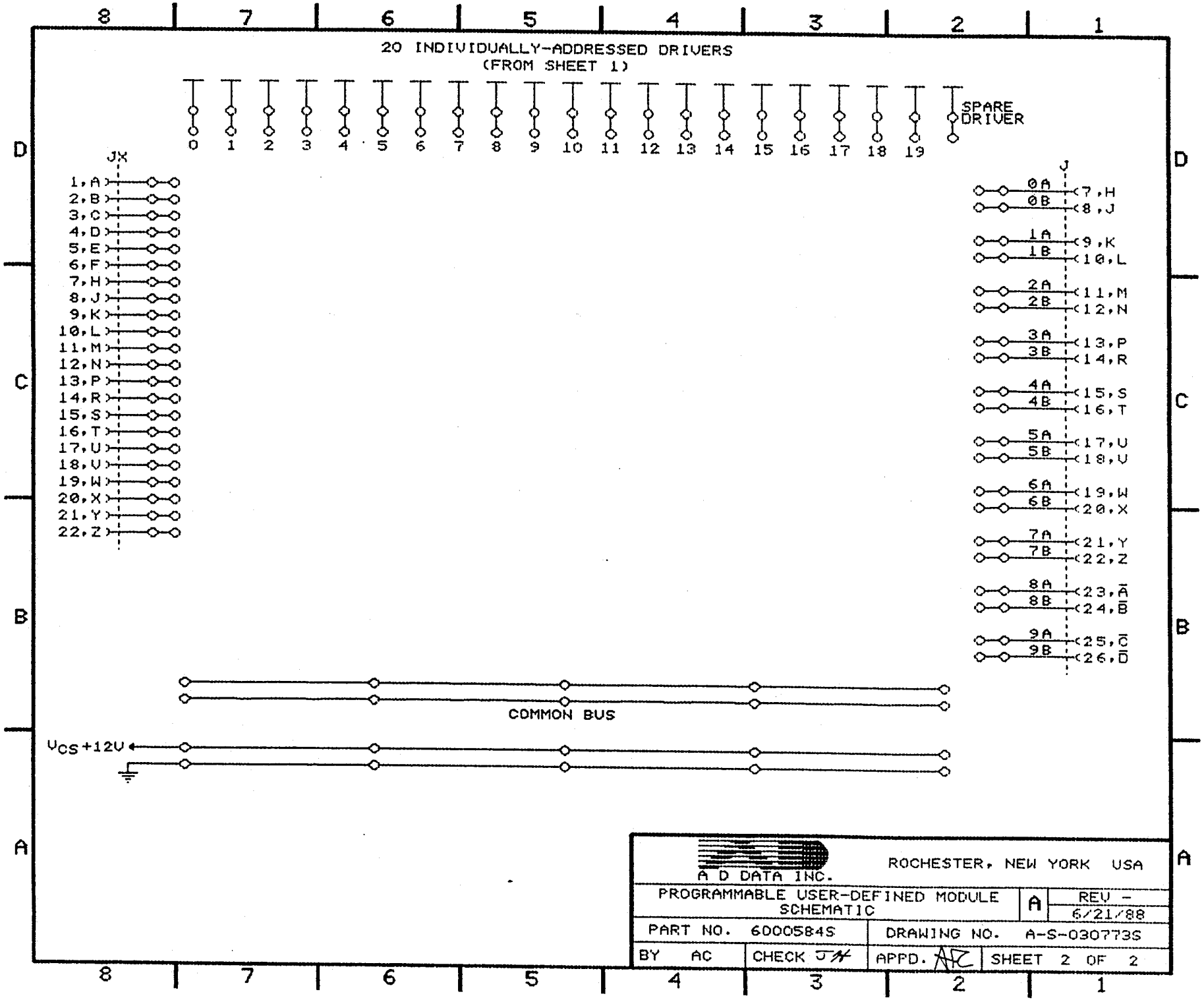
20(1 X 1) RELAY MODULE SCHEMATIC		A	REV - 5/23/88
PART NO. 6000472S	DRAWING NO. A-S-230140S		
BY AC	CHECK JJ	APPD. AR	SHEET 2 OF 2

S1-2


ROCHESTER, NEW YORK USA
A D DATA INC.
2(10 X 10 RELAY MODULE SCHEMATIC
PART NO. 6000473S
DRAWING NO. A-S-230142S
REV A
5/23/88
SHEET 1 OF 2
BY AC
CHECK
APPD.
56E
2000644
USED ON
NEXT ASSY
A
2000644
WAS
2000664
1/18/89
AC
SYM
ECN NO.
DATE
BY
APPD.
REVISIONS
ULN2004'S ON UCS
ALL OTHERS ON VDD
UNITS 1
UNITS 2
UNITS 4
UNITS 8
CLR
STB O
TENS O
HUNDREDS
THOUSANDS
TENS f
VCS
VDD
VDD+12V
VCS+12V
R1
10K
C1
20UF
C2
.01UF
C3
.01UF
C4-C12
.01UF
4022-2
4022-6
2004
4081
4075
4023

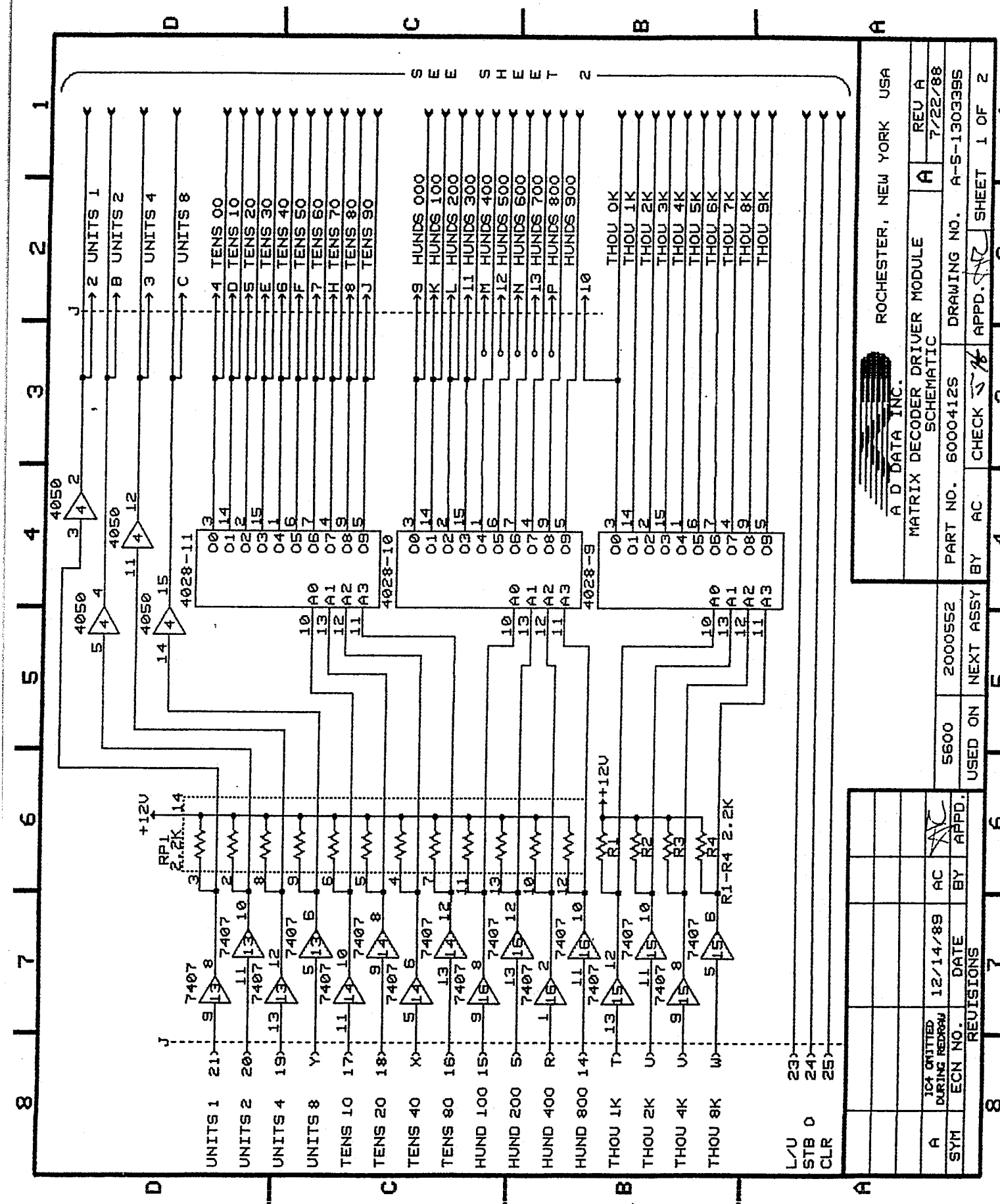

JX
J
SEE NOTE BELOW
HIGH 0A → 7,H
LOW 0B → 8,J
HIGH 1A → 9,K
LOW 1B → 10,L
HIGH 2A → 11,M
LOW 2B → 12,N
HIGH 3A → 13,P
LOW 3B → 14,R
HIGH 4A → 15,S
LOW 4B → 16,T
HIGH 5A → 17,U
LOW 5B → 18,V
HIGH 6A → 19,W
LOW 6B → 20,X
HIGH 7A → 21,Y
LOW 7B → 22,Z
K0
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
K14
K15
K16
K17
K18
K19
CONFIGURATION
-0 NO STRAPPING
-1 STRAPPED TO 0A/0B, 1A/1B
-2 STRAPPED TO 2A/2B, 3A/3B
-3 STRAPPED TO 4A/4B, 5A/5B
-4 STRAPPED TO 6A/6B, 7A/7B
NOTE: "B" RELAY CONTACTS ARE OMITTED ON 1 WIRE ASSEMBLY VERSIONS.
A D DATA INC.
ROCHESTER, NEW YORK USA
2(10 X 1) RELAY MODULE SCHEMATIC
A
REV -
5/23/88
PART NO. 6000473S
DRAWING NO. A-S-230142S
BY AC
CHECK JF
APPD. AC
SHEET 2 OF 2

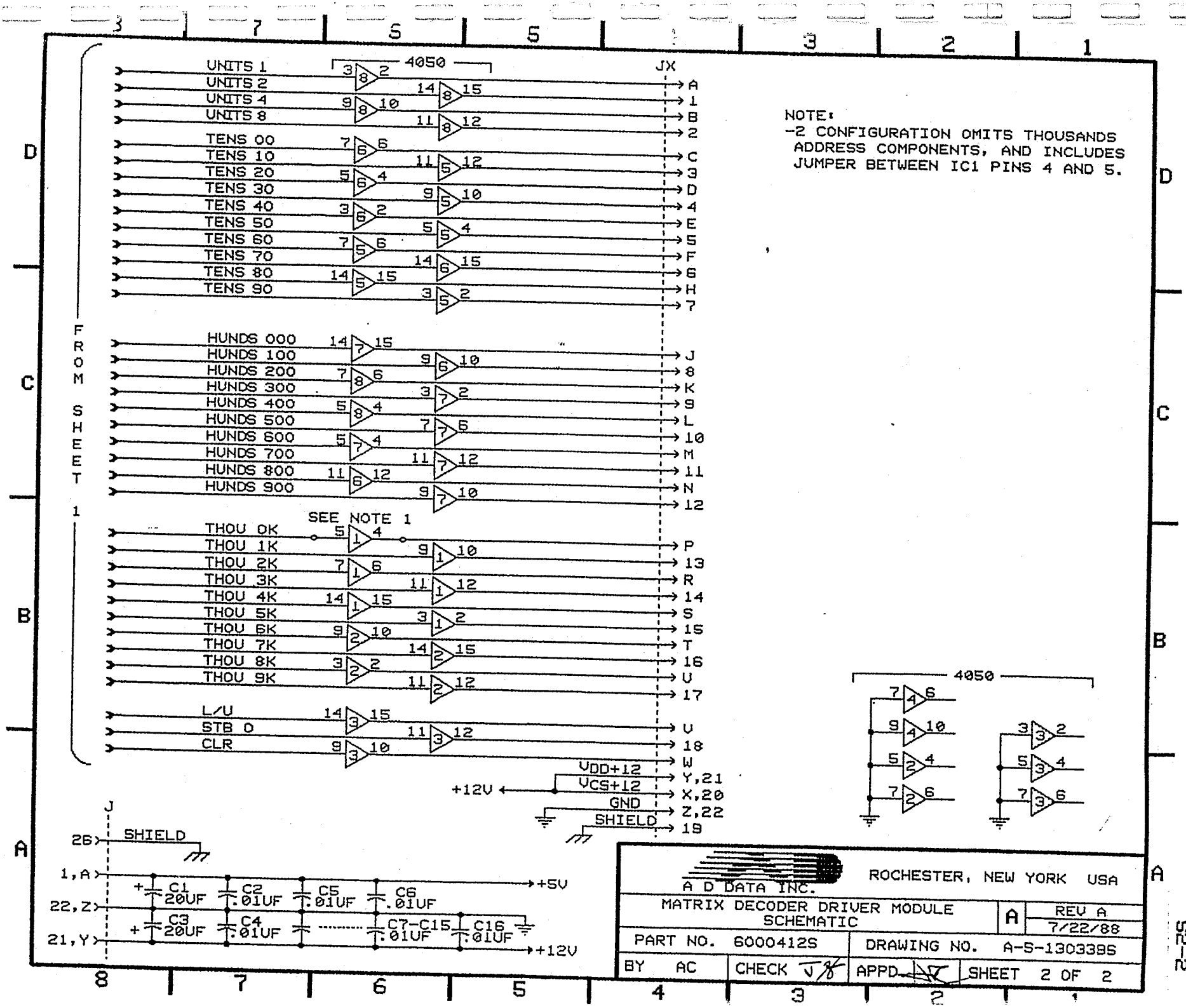

SOLDER PADS
SPARE
4022-4
4022-5
4022-5
4022-5
4075
4081
4023
C5-C8 .01UF
C4 .01UF
C3 .01UF
C2 20UF
C1 20UF
F1 0.5A
V_{DD}
V_{DD}+12V
V_{CS}+12V
UNITS 1
UNITS 2
UNITS 4
UNITS 8
L/U
CLR
STB O
TENS O
THOUSANDS
HUNDREDS
TENS 1
ULN2004'S ON V_{CS}
ALL OTHERS ON V_{DD}
A D DATA INC.
ROCHESTER, NEW YORK USA
PROGRAMMABLE USER-DEFINED MODULE
SCHEMATIC
REV -
6/21/88
PART NO. 6000584S
DRAWING NO. A-S-030773S
SHEET 1 OF 2
BY AC
CHECK
APPD. AR
S6E
2000568
USED ON
NEXT ASSY
SYM
ECN NO.
DATE
BY
APPD.
REVISIONS


20 INDIVIDUALLY-ADDRESSED DRIVERS
(FROM SHEET 1)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
SPARE DRIVER
JX
1,A
2,B
3,C
4,D
5,E
6,F
7,H
8,J
9,K
10,L
11,M
12,N
13,P
14,R
15,S
16,T
17,U
18,V
19,W
20,X
21,Y
22,Z
J
0A 7,H
0B 8,J
1A 9,K
1B 10,L
2A 11,M
2B 12,N
3A 13,P
3B 14,R
4A 15,S
4B 16,T
5A 17,U
5B 18,V
6A 19,W
6B 20,X
7A 21,Y
7B 22,Z
8A 23,Ā
8B 24,B̄
9A 25,C̄
9B 26,D̄
COMMON BUS
VCS +12V
A D DATA INC.
ROCHESTER, NEW YORK USA
PROGRAMMABLE USER-DEFINED MODULE SCHEMATIC
A
REV -
6/21/88
PART NO. 60000584S
DRAWING NO. A-S-030773S
BY AC
CHECK
APPD.
SHEET 2 OF 2

SECTION S2 - 5600 INTERFACE AND CONTROL MODULE SCHEMATICS

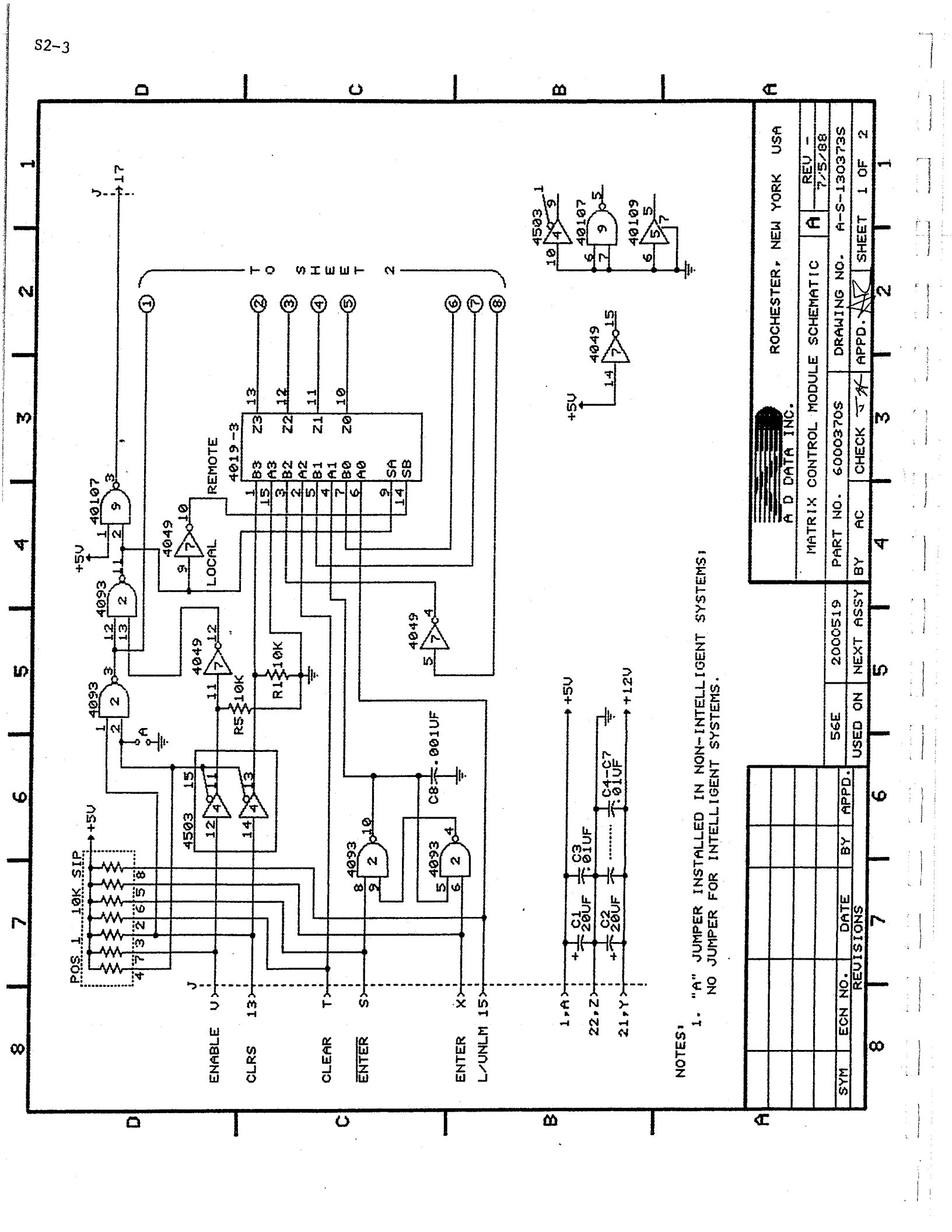
S2-1

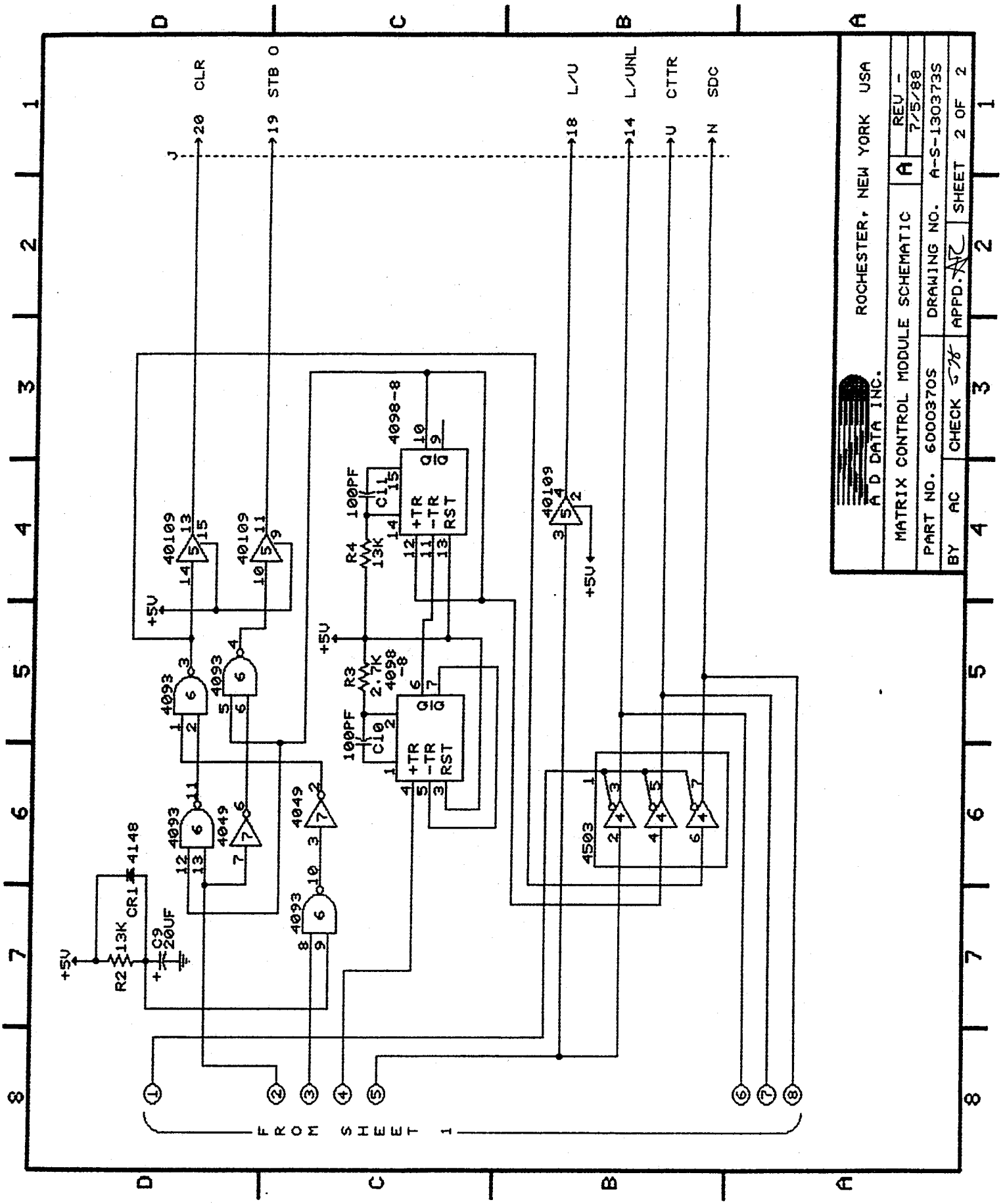

SEE SHEET 2
UNITS 1
UNITS 2
UNITS 4
UNITS 8
TENS 10
TENS 20
TENS 40
TENS 80
HUND 100
HUND 200
HUND 400
HUND 800
THOU 1K
THOU 2K
THOU 4K
THOU 8K
L/U
STB D
CLR
+12V
RP1 2.2K
R1-R4 2.2K
4028-11
4028-10
4028-9
4050
7407
ROCHESTER, NEW YORK USA
A D DATA INC.
MATRIX DECODER DRIVER MODULE
SCHEMATIC
REV A
7/22/88
PART NO. 6000412S
DRAWING NO. A-S-1303395
SHEET 1 OF 2
5600
2000552
USED ON
NEXT ASSY
12/14/89
IC4 OMITTED DURING REDRAW
ECN NO.
DATE
REVISIONS

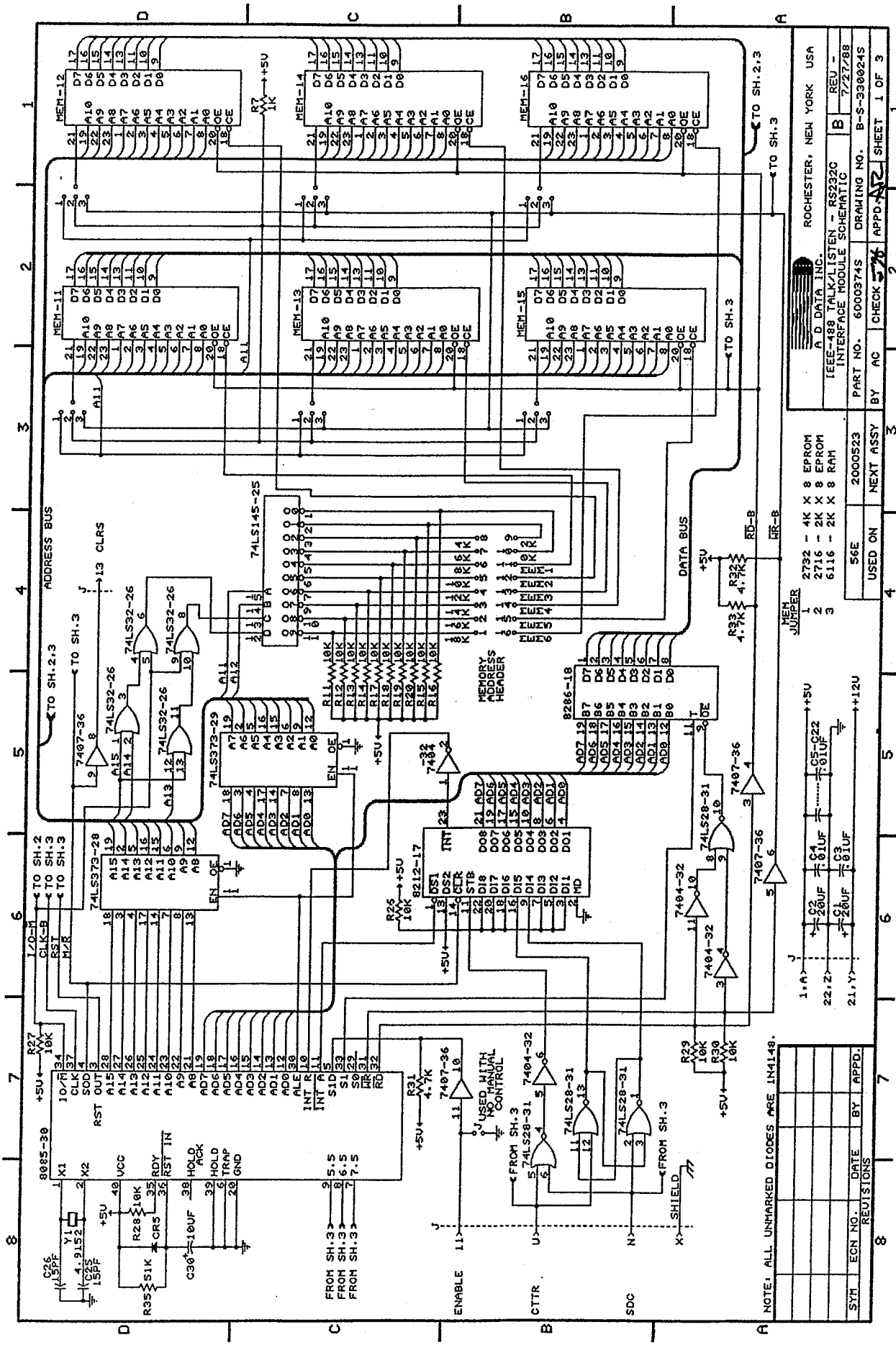


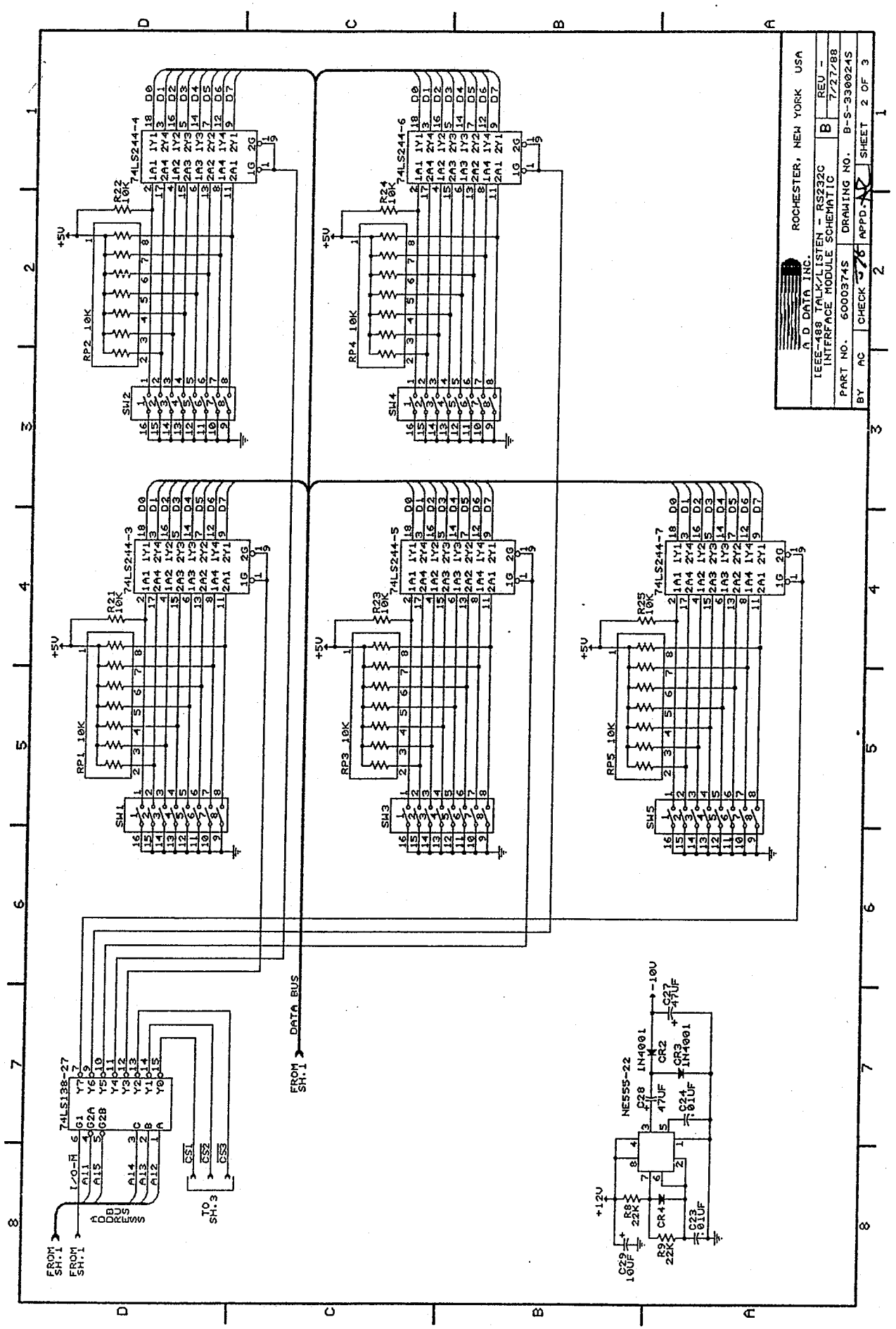
NOTE:
-2 CONFIGURATION OMITS THOUSANDS ADDRESS COMPONENTS, AND INCLUDES JUMPER BETWEEN IC1 PINS 4 AND 5.

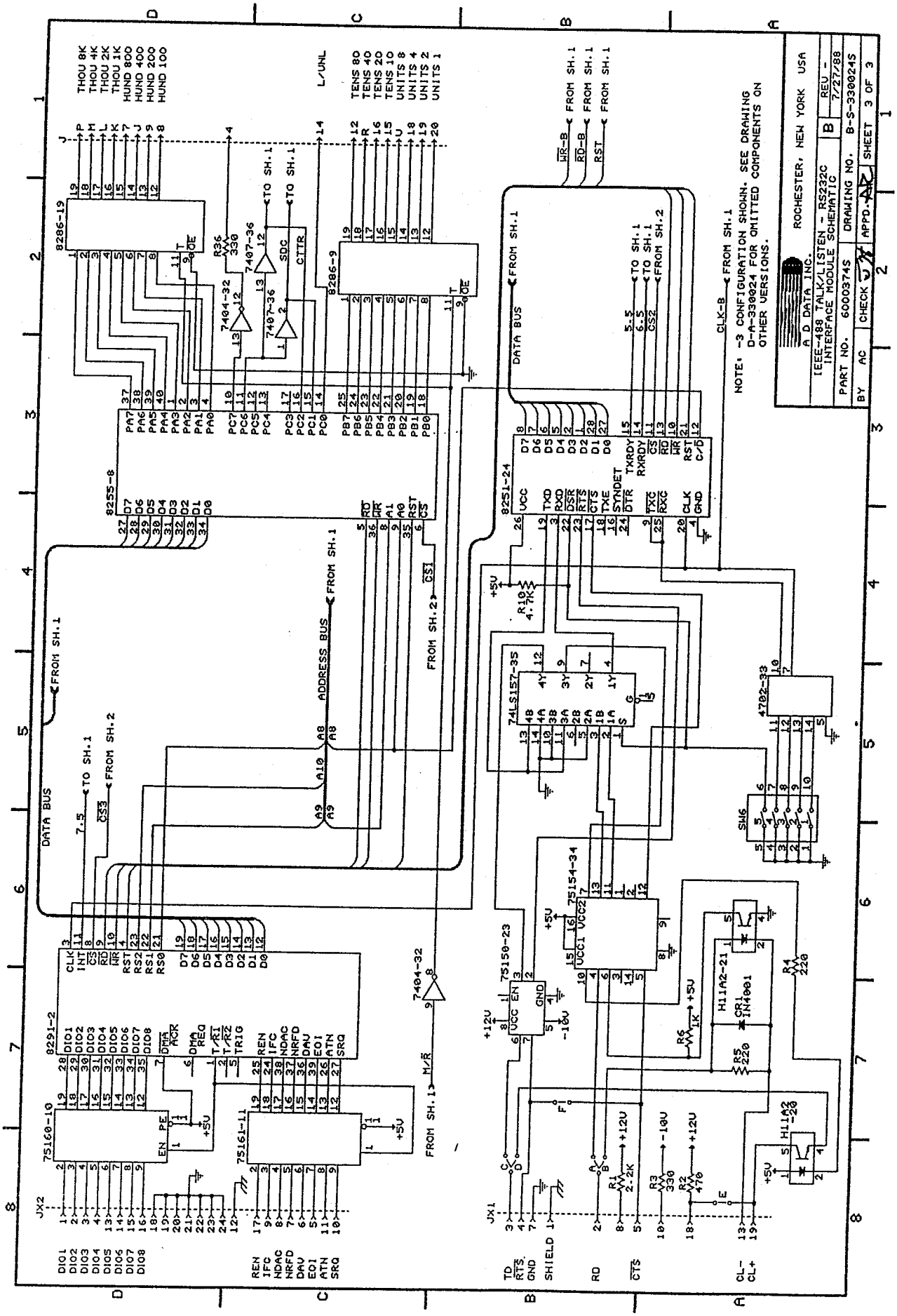
A D DATA INC.	ROCHESTER, NEW YORK USA		
MATRIX DECODER DRIVER MODULE SCHEMATIC		A	REV A 7/22/88
PART NO. 6000412S	DRAWING NO. A-S-1303385		
BY AC	CHECK	APPD	SHEET 2 OF 2


TO SHEET 2
REMOTE
LOCAL
4019-3
4093
4049
4503
40107
40109
R1 10K
R5 10K
C8 .001UF
C1 20UF
C2 20UF
C3 .01UF
C4-C7 .01UF
+5V
+12V
POS 1 10K SIP
ENABLE
CLRS
CLEAR
ENTER
ENTER
L/UNLM
1,A
22,Z
21,Y
NOTES:
1. "A" JUMPER INSTALLED IN NON-INTELLIGENT SYSTEMS;
NO JUMPER FOR INTELLIGENT SYSTEMS.
ROCHESTER, NEW YORK USA
A D DATA INC.
MATRIX CONTROL MODULE SCHEMATIC
A
REV -
7/5/88
PART NO. 6000370S
DRAWING NO. A-S-130373S
BY AC
CHECK
APPD.
SHEET 1 OF 2
56E
2000519
USED ON
NEXT ASSY
SYM
ECN NO.
DATE
BY
APPD.
REVISIONS

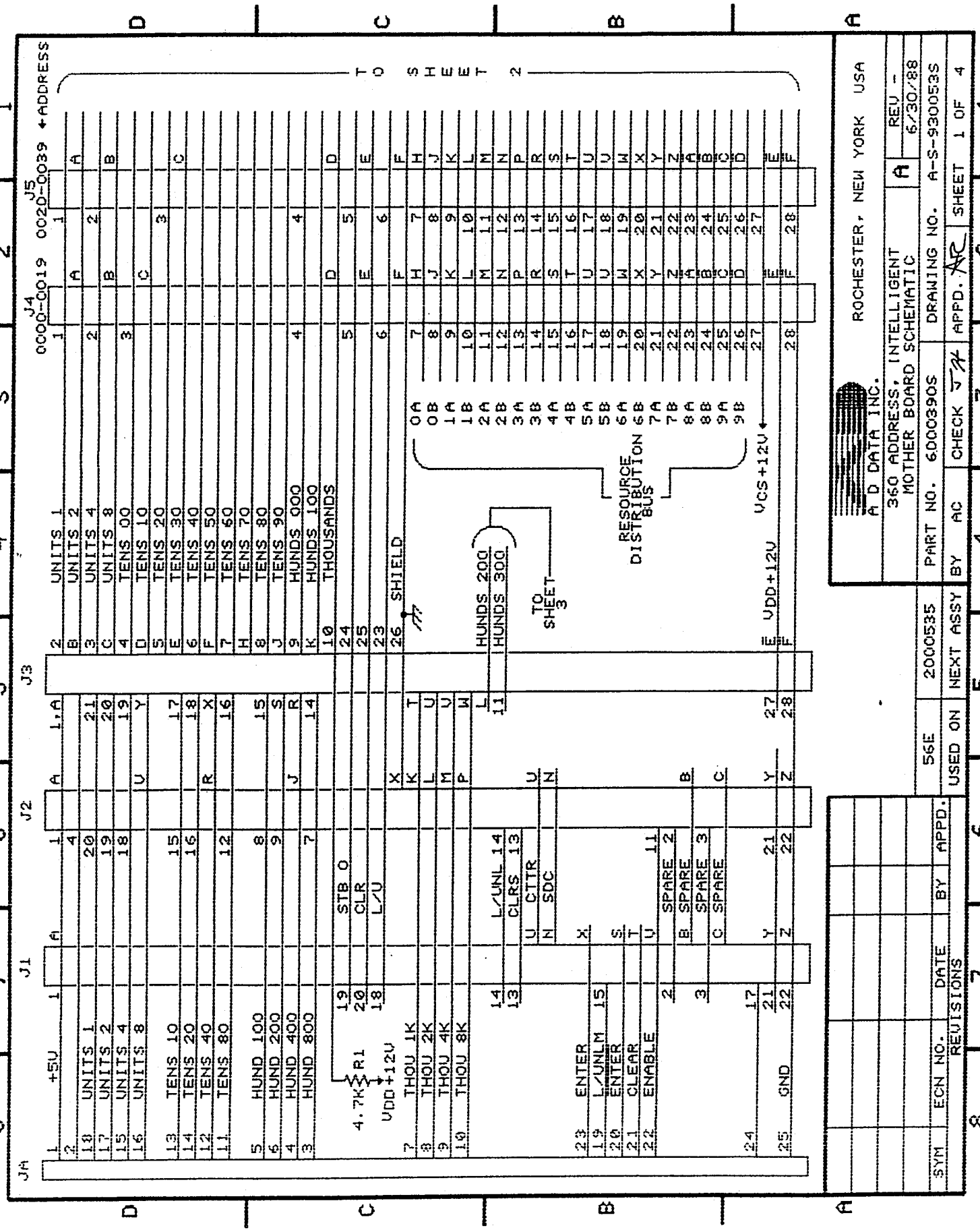

J
CLR
STB O
L/U
L/UNL
CTTR
SDC
20
19
18
14
U
N
+5V
R2 13K
CR1 4148
C9 20UF
R3 2.7K
R4 13K
C10 100PF
C11 100PF
4093
4049
4098-8
40109
4503
+TR
-TR
RST
Q
Q
FROM SHEET 1
A D DATA INC.
ROCHESTER, NEW YORK USA
MATRIX CONTROL MODULE SCHEMATIC
A
REV -
7/5/88
PART NO. 60003705
DRAWING NO. A-S-130373S
BY AC
CHECK
APPD.
SHEET 2 OF 2

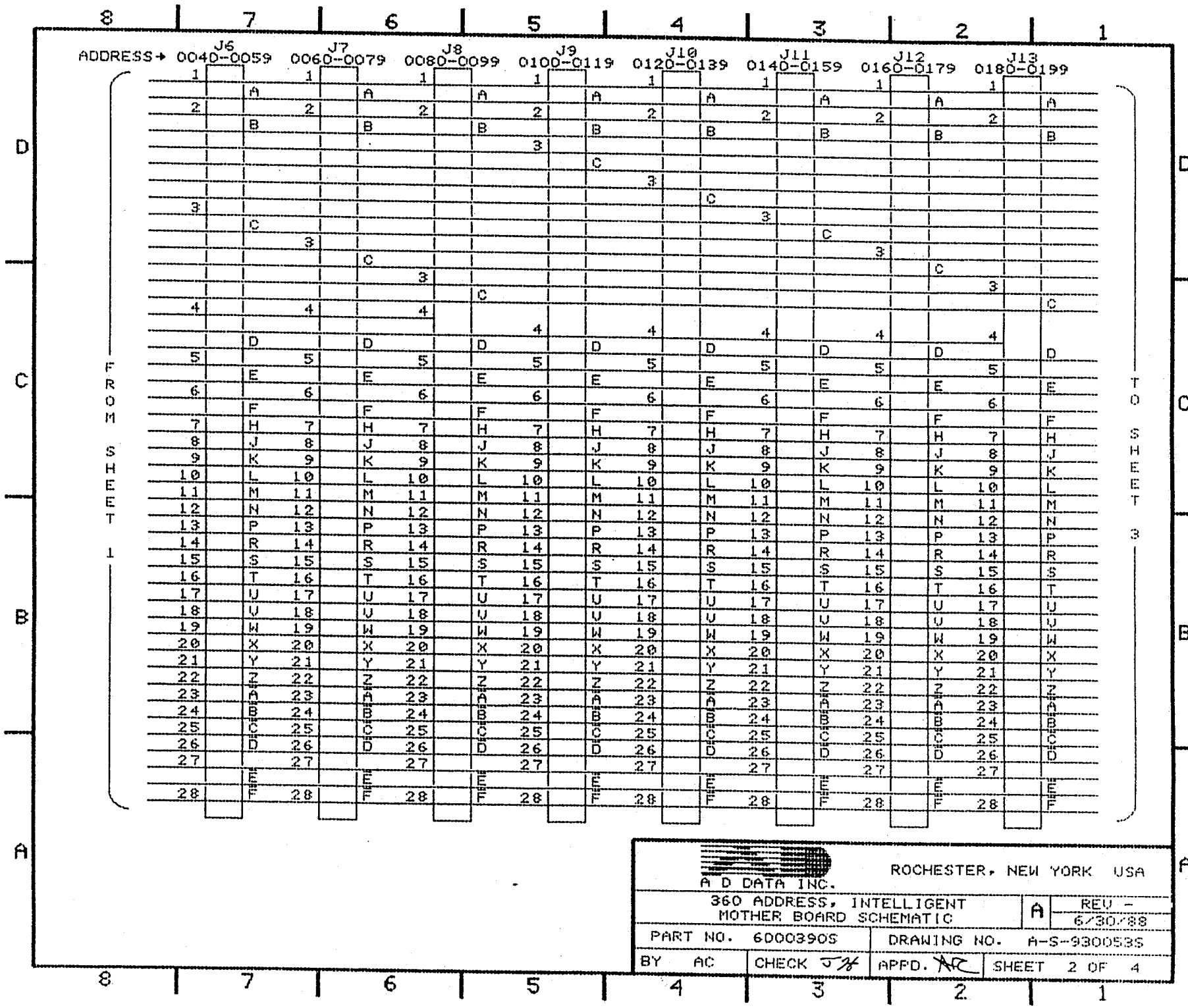

A D DATA INC.
ROCHESTER, NEW YORK USA
IEEE-488 TALK/LISTEN - RS232C
INTERFACE MODULE SCHEMATIC
B
REV -
7/27/88
PART NO. 60003745
DRAWING NO. B-S-330025
BY AC
CHECK
APPD.
SHEET 1 OF 3
56E
2000523
USED ON
NEXT ASSY
2732 - 4K X 8 EPROM
2716 - 2K X 8 EPROM
6116 - 2K X 8 RAM
MEM JUMPER
ADDRESS BUS
DATA BUS
MEMORY ADDRESS HEADER
8085-30
8212-17
74LS373-28
74LS373-29
74LS145-25
74LS32-26
74LS28-31
7404-32
7407-36
8286-18
MEM-11
MEM-12
MEM-13
MEM-14
MEM-15
MEM-16
USED WITH NO MANUAL CONTROL
ENABLE
CTTR
SDC
SHIELD
NOTE: ALL UNMARKED DIODES ARE 1N4148.
SYM
ECN NO.
DATE
BY
APPD.
REVISIONS

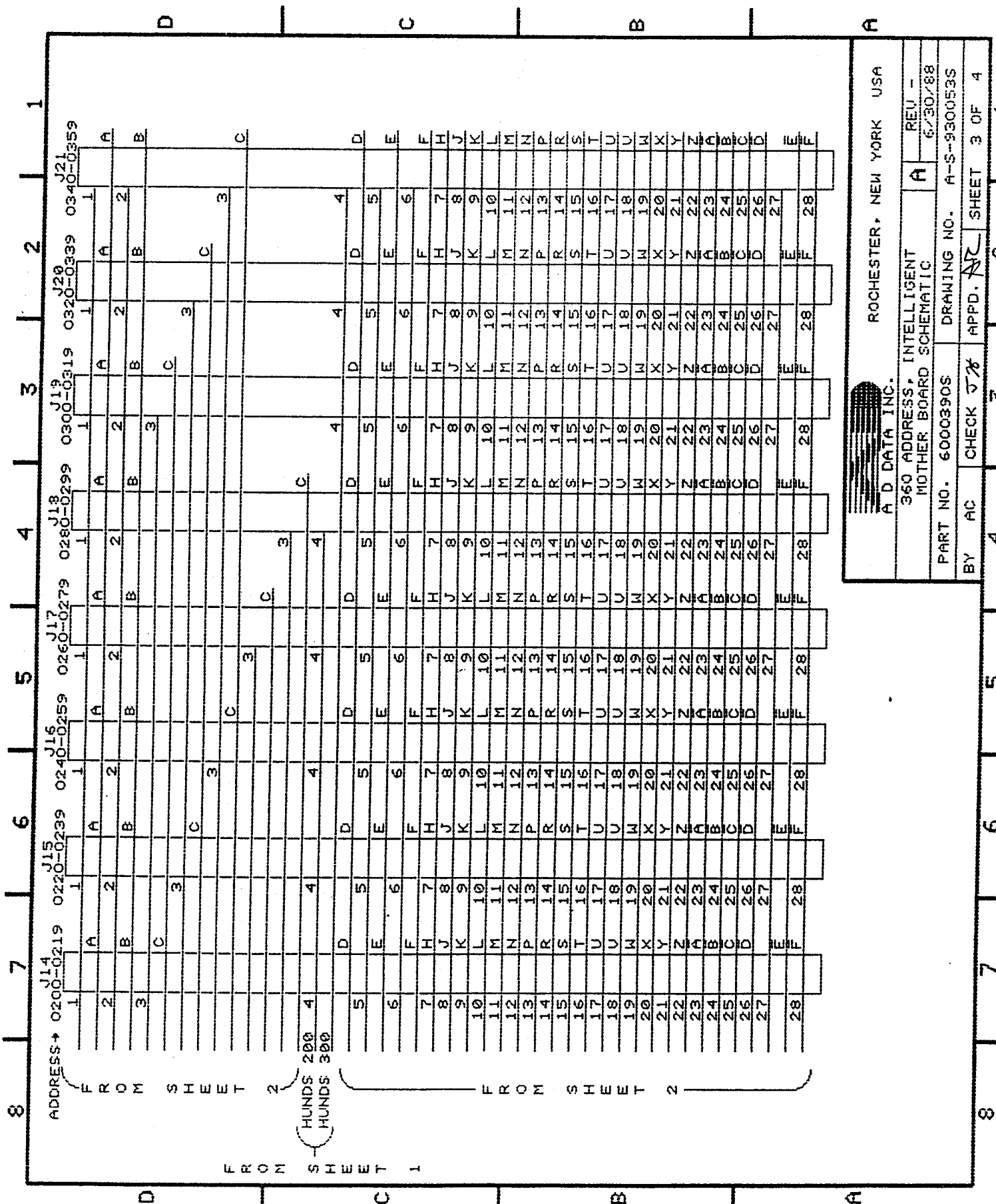

A D DATA INC.
ROCHESTER, NEW YORK USA
IEEE-488 TALK/LISTEN - RS232C INTERFACE MODULE SCHEMATIC
B
REV -
7/27/88
PART NO. 60003745
DRAWING NO. B-S-330024S
BY AC
CHECK
APPD.
SHEET 2 OF 3
74LS244-4
74LS244-6
74LS244-3
74LS244-5
74LS244-7
RP1 10K
RP2 10K
RP3 10K
RP4 10K
RP5 10K
R21 10K
R22 10K
R23 10K
R24 10K
R25 10K
SW1
SW2
SW3
SW4
SW5
+5V
74LS138-27
I/O-R
A11
A15
A14
A13
A12
ADDRESS BUS
CS1
CS2
CS3
TO SH.3
FROM SH.1
FROM SH.1
DATA BUS
NE555-22
+12V
-10V
IN4001
CR2
CR3
CR4
C28 47UF
C24 .01UF
C27 47UF
C23 .01UF
C29 10UF
R8 22K
R9 22K

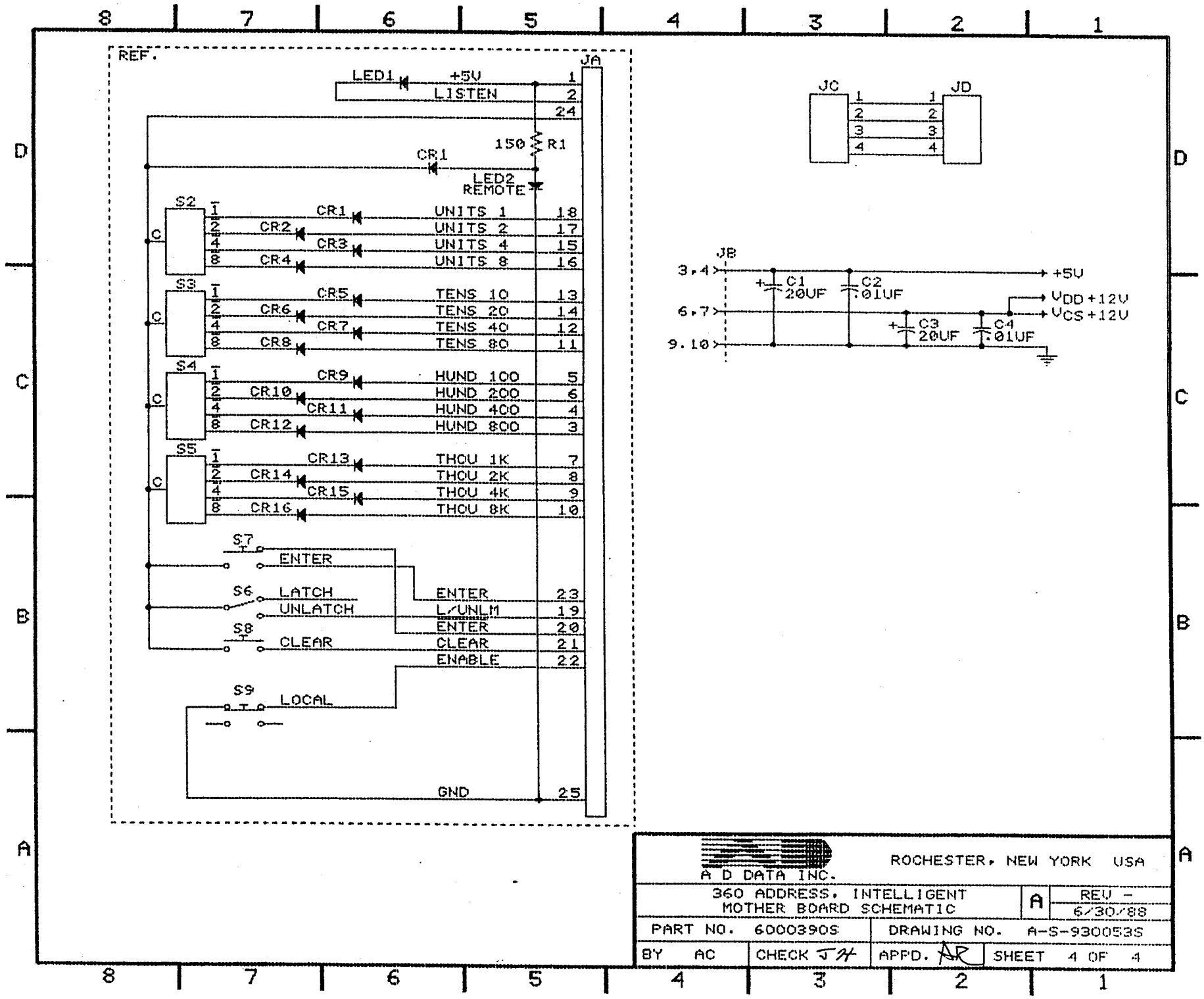

A D DATA INC.
ROCHESTER, NEW YORK USA
IEEE-488 TALK/LISTEN - RS232C INTERFACE MODULE SCHEMATIC
PART NO. 60003745
DRAWING NO. B-S-330024S
REV - B
7/27/88
BY AC
CHECK
APPD.
SHEET 3 OF 3
NOTE: -3 CONFIGURATION SHOWN. SEE DRAWING D-A-330024 FOR OMITTED COMPONENTS ON OTHER VERSIONS.
DATA BUS
ADDRESS BUS
FROM SH.1
FROM SH.2
TO SH.1
TO SH.2
8255-8
8251-24
8291-2
75160-10
75161-11
74LS157-3S
75154-34
75150-23
8286-19
8286-9
7404-32
7407-36
4702-33
SW6
H11A2-21
H11A2-20
IN4001
THOU 8K
THOU 4K
THOU 2K
THOU 1K
HUND 800
HUND 400
HUND 200
HUND 100
TENS 80
TENS 40
TENS 20
TENS 10
UNITS 8
UNITS 4
UNITS 2
UNITS 1
L/UNL
DIO1
DIO2
DIO3
DIO4
DIO5
DIO6
DIO7
DIO8
REN
IFC
NDAC
NRFD
DAV
EOI
ATN
SRQ
TD
RTS
GND
SHIELD
RD
CTS
CL-
CL+

SECTION S3 - 5600 MOTHER BOARD SCHEMATICS

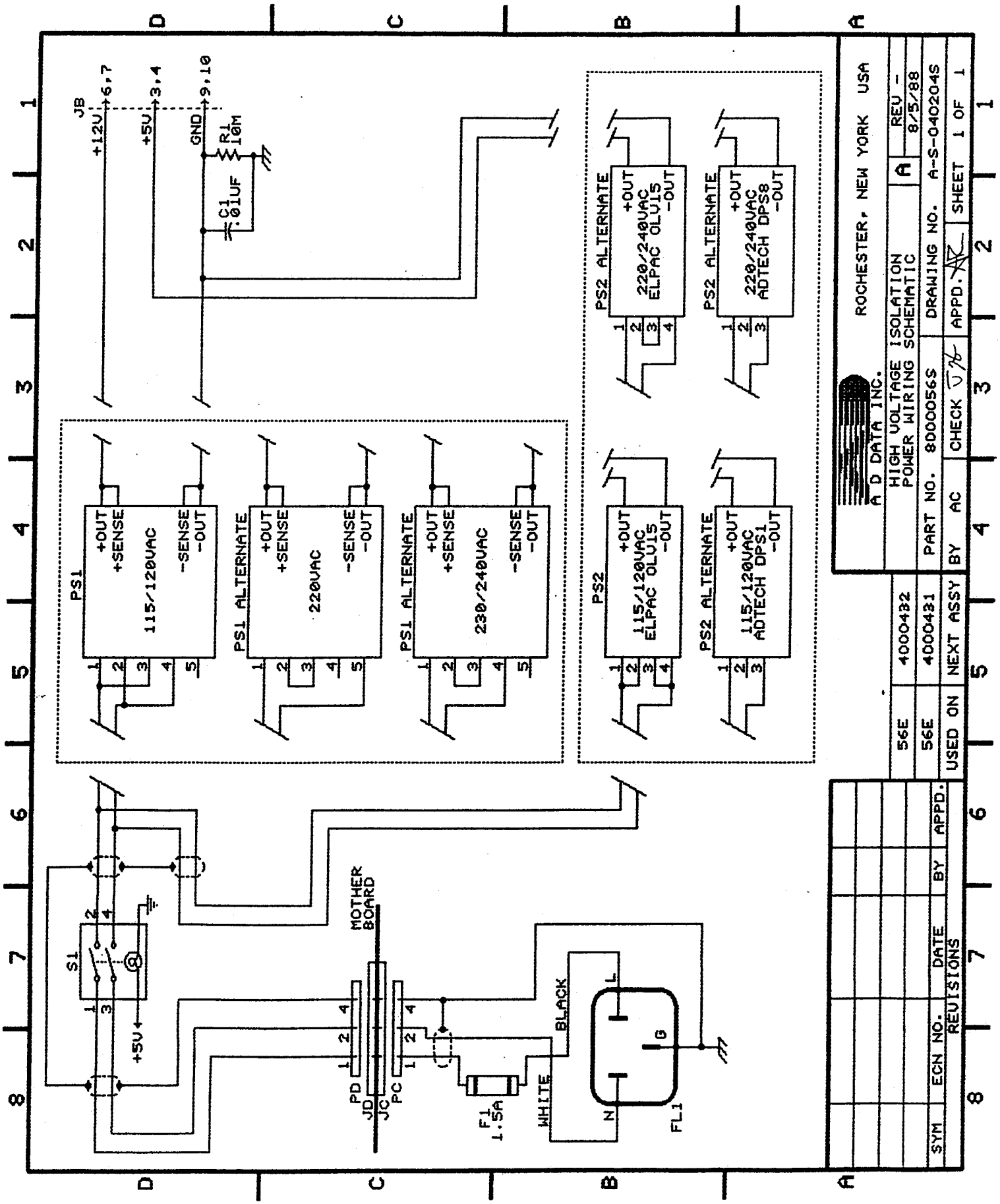

ROCHESTER, NEW YORK USA
A D DATA INC.
360 ADDRESS, INTELLIGENT
MOTHER BOARD SCHEMATIC
REV -
6/30/88
PART NO. 6000390S
DRAWING NO. A-S-930053S
SHEET 1 OF 4
APPD.
CHECK
BY AC
NEXT ASSY 2000535
USED ON 56E
REVISIONS
SYM ECN NO. DATE BY APPD.
TO SHEET 2
TO SHEET 3
RESOURCE DISTRIBUTION BUS
SHIELD
STB 0
CLR
L/U
R1
4.7K
VDD+12V
VCS+12V
+5V
GND
ENTER
L/UNLM
CLEAR
ENABLE
SPARE 2
SPARE 3
L/UNL 14
CLRS 13
U CTTR
N SDC
HUNDS 200
HUNDS 300
+ADDRESS
UNITS 1
UNITS 2
UNITS 4
UNITS 8
TENS 00
TENS 10
TENS 20
TENS 30
TENS 40
TENS 50
TENS 60
TENS 70
TENS 80
TENS 90
HUNDS 000
HUNDS 100
THOUSANDS
THOU 1K
THOU 2K
THOU 4K
THOU 8K
HUND 100
HUND 200
HUND 400
HUND 800
TENS 10
TENS 20
TENS 40
TENS 80
UNITS 1
UNITS 2
UNITS 4
UNITS 8
J1
J2
J3
J4
J5
JA


ADDRESS→
J6 0040–0059
J7 0060–0079
J8 0080–0099
J9 0100–0119
J10 0120–0139
J11 0140–0159
J12 0160–0179
J13 0180–0199
FROM SHEET 1
TO SHEET 3
A D DATA INC.
ROCHESTER, NEW YORK USA
360 ADDRESS, INTELLIGENT MOTHER BOARD SCHEMATIC
A
REV –
6/30/88
PART NO. 60003905
DRAWING NO. A-S-9300535
BY AC
CHECK JM
APPD. AC
SHEET 2 OF 4


ROCHESTER, NEW YORK USA
A D DATA INC.
360 ADDRESS, INTELLIGENT
MOTHER BOARD SCHEMATIC
A
REV -
6/30/88
PART NO. 6000390S
DRAWING NO. A-S-930053S
BY AC
CHECK
APPD.
SHEET 3 OF 4
ADDRESS→ 0200-0219 0220-0239 0240-0259 0260-0279 0280-0299 0300-0319 0320-0339 0340-0359
J14 J15 J16 J17 J18 J19 J20 J21
FROM SHEET 2
HUNDS 200
HUNDS 300
FROM SHEET 1
FROM SHEET 2

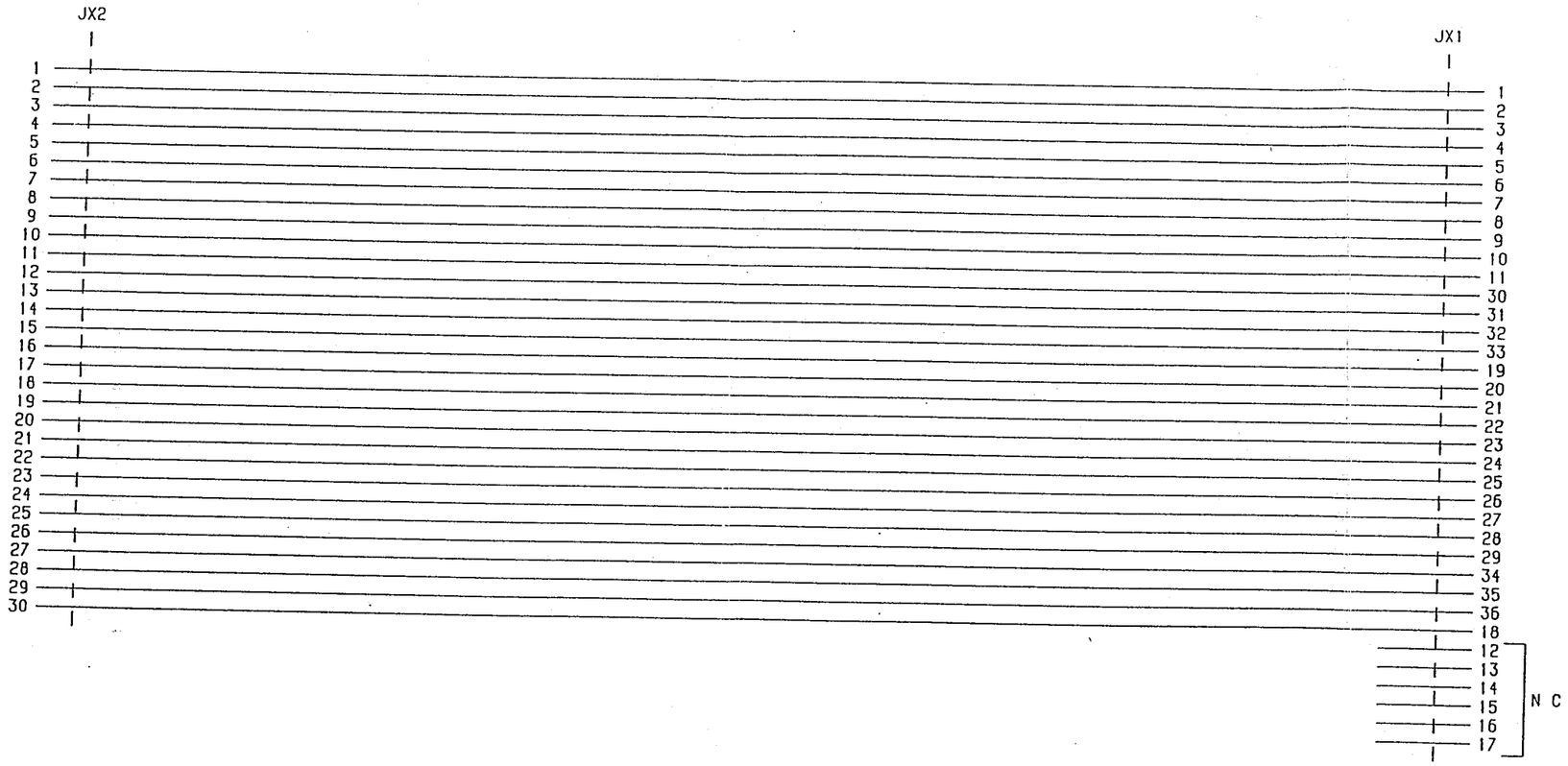

REF.
JA
LED1
+5V
LISTEN
1
2
24
150
R1
CR1
LED2
REMOTE
S2
CR1
UNITS 1
18
CR2
UNITS 2
17
CR3
UNITS 4
15
CR4
UNITS 8
16
S3
CR5
TENS 10
13
CR6
TENS 20
14
CR7
TENS 40
12
CR8
TENS 80
11
S4
CR9
HUND 100
5
CR10
HUND 200
6
CR11
HUND 400
4
CR12
HUND 800
3
S5
CR13
THOU 1K
7
CR14
THOU 2K
8
CR15
THOU 4K
9
CR16
THOU 8K
10
S7
ENTER
S6
LATCH
UNLATCH
ENTER
23
L/UNLM
19
S8
ENTER
20
CLEAR
CLEAR
21
ENABLE
22
S9
LOCAL
GND
25
JC
JD
JB
3,4
6,7
9,10
+5V
C1
20UF
C2
.01UF
VDD +12V
VCS +12V
C3
20UF
C4
.01UF
A D DATA INC.
ROCHESTER, NEW YORK USA
360 ADDRESS, INTELLIGENT
MOTHER BOARD SCHEMATIC
A
REV -
6/30/88
PART NO. 6000390S
DRAWING NO. A-S-9300535
BY AC
CHECK JH
APPD. AR
SHEET 4 OF 4

SECTION S4 - 5600 CHASSIS POWER WIRING SCHEMATICS


JB
+12V
6,7
+5V
3,4
GND
9,10
R1
10M
C1
.01UF
PS1
+OUT
+SENSE
115/120VAC
-SENSE
-OUT
PS1 ALTERNATE
220VAC
230/240VAC
PS2
115/120VAC
ELPAC OLV15
PS2 ALTERNATE
220/240VAC
ADTECH DPS1
ADTECH DPS8
ELPAC OLV15
S1
+5V
MOTHER BOARD
PD
JD
JC
PC
F1
1.5A
WHITE
BLACK
N
L
G
FL1
ROCHESTER, NEW YORK USA
A D DATA INC.
HIGH VOLTAGE ISOLATION
POWER WIRING SCHEMATIC
REV -
A
8/5/88
PART NO. 80000565
DRAWING NO. A-S-040204S
SHEET 1 OF 1
BY AC
CHECK
APPD.
56E 4000432
56E 4000431
USED ON NEXT ASSY
SYM ECN NO. DATE BY APPD.
REVISIONS

SECTION S5 - 5630 SCHEMATICS

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



056071 4000542	030785 2000755
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

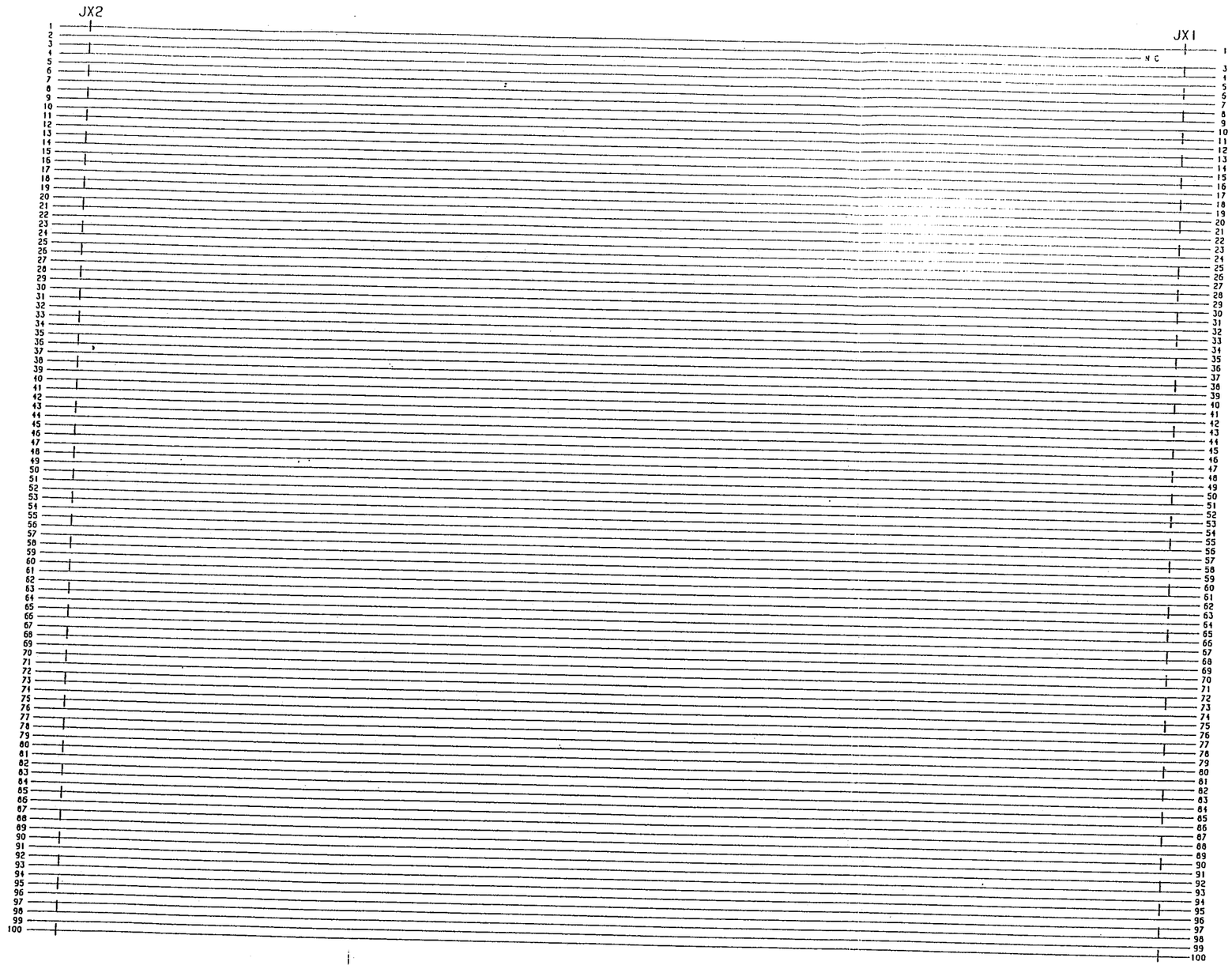
TOLERANCE UNLESS OTHERWISE SPECIFIED	
2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°
SCALE	
DO NOT SCALE DRAWING	

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE: POWER FEEDTHROUGH BOARD SCHEMATIC

DATE	DRAWING NO.	REV.
6-2-89	D-S-030785	—
DRAWN BY: V M		
CHECK: ARC	APPD.: SH	PART NO. 6000587
SIZE: D	SHEET: 1 OF 1	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



056071 4000542	030786 2000756
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
2 PLACE DECIMAL	± .02
3 PLACE DECIMAL	± .005
ANGLE	± 1°

SCALE

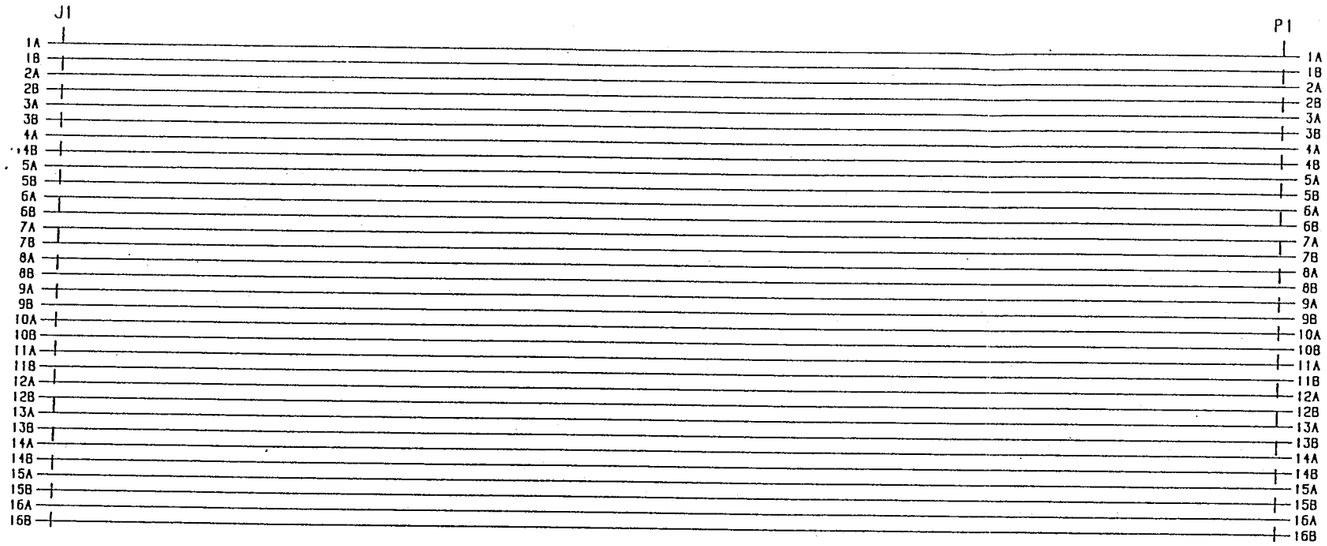
DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE SIGNAL FEEDTHROUGH BOARD SCHEMATIC

DATE 6-2-89	DRAWING NO. D-S-030786		REV.
DRAWN BY V M			
CHECK	APPD.	PART NO. 6000588	SIZE D	SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



056071 4000542	030788 2000757
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE
EXTENDER BOARD
SCHEMATIC

DATE	DRAWING NO.	REV.
6-2-89	D-S-030788	
DRAWN BY U M		
CHECK	APPD.	PART NO. 6000589
		SIZE D
		SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	PIN 3 OF RELAYS K0-K49 WERE RENUMBERED; PIN 4 OF RELAYS K0-K49 WERE SHOWN COMMON.	8-29-89	

J1

1B UNITS-1 — U1 (3→2) — CD4050B
1A UNITS-2 — U1 (14→15) — CD4050B
2B UNITS-4 — U1 (5→4) — CD4050B
2A UNITS-8 — U1 (11→12) — CD4050B — U3 (14→15) — CD4049UB — 8 → SHEET 2
9A CLR — U1 (7→6) — CD4050B
10B L/Ū — U1 (9→10) — CD4050B

U2 (3,4,5→6) — CD4023B

U9 — CD4099B — ULN-2804A — U10
U11 — CD4099B — ULN-2804A — U12
U13 — CD4099B — ULN-2804A — U14
U15 — CD4099B — ULN-2804A — U16
U17 — CD4099B — ULN-2804A — U18

Each CD4099B: A0, A1, A2, WR-DIS, DATA, RESET; outputs 00–07 (9,10,11,12,13,14,15,1)
Each ULN-2804A: 00–07 (9,10,11,12,13,14,15,1) → K0–K7, K10–K17, K20–K27, K30–K37, K40–K47

SHEET 3

U2 (13,12,11→10) — CD4023B
U4 (3,4,5→6) — CD4023B
U4 (13,12,11→10) — CD4023B
U2 (1,2,8→9) — CD4023B

CLR
L/Ū
STB
SHEET 2

3B TENS-00
3A TENS-10
4B TENS-20
4A TENS-30
5B TENS-40
5A TENS-50
6B TENS-60
6A TENS-70
7B TENS-80
7A TENS-90

+12V DD

U6 — CD4532B
DO, D1, D2, D3, D4, D5, D6, D7, EN; EO, GS, Q0, Q1, Q2

U7 — CD4071B — UC0
U7 — CD4071B — UC1, UC2
U7 — CD4071B — UC3

UC0
UC1
UC2
UC3

9B STB — U3 (5→4) — CD4049UB
8B H-SEL
8A K-SEL
U4 (6,1,2→9) — CD4023B
U3 (8→3) — CD4049UB
U3 (2) — CD4049UB

15A +12V DD
15B

C1 47uf, C3 .1uf, C5 .1uf, C6 .1uf, C7 .1uf, C8 .1uf, C9 .1uf, C10 .1uf, C11 .1uf, C12 .1uf, C13 .1uf, C15 .1uf, C17 .1uf, C19 .1uf, C21 .1uf, C23 .1uf, C25 .1uf

14A DD-GND
14B
13A +12V CS
13B

C2 47uf, C4 .1uf, C14 .1uf, C16 .1uf, C18 .1uf, C20 .1uf, C22 .1uf, C24 .1uf, C26 .1uf

12A CS-GND
12B
16A CHASSIS GND
16B

SPARES

U5 — CD4023B
U3 — CD4049UB
U3 — CD4049UB
U3 — CD4049UB

U8 — CD4555B — 03, 02, 01, 00
U7 — CD4071B
U7 — CD4071B

056071	230103
4000542	2000758
USED ON	NEXT ASSY

THIS IS A COMPUTER GENERATED DRAWING. IT IS OFFICIAL WHEN THE AUTHENTICATION BLOCK IS FILLED IN. THE MASTER COPY IS AUTHENTICATED IN RED.

AUTHENTICATION BLOCK

wm AUG 30 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	±1°

SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 50 (1 X 1) MATRIX BOARD SCHEMATIC

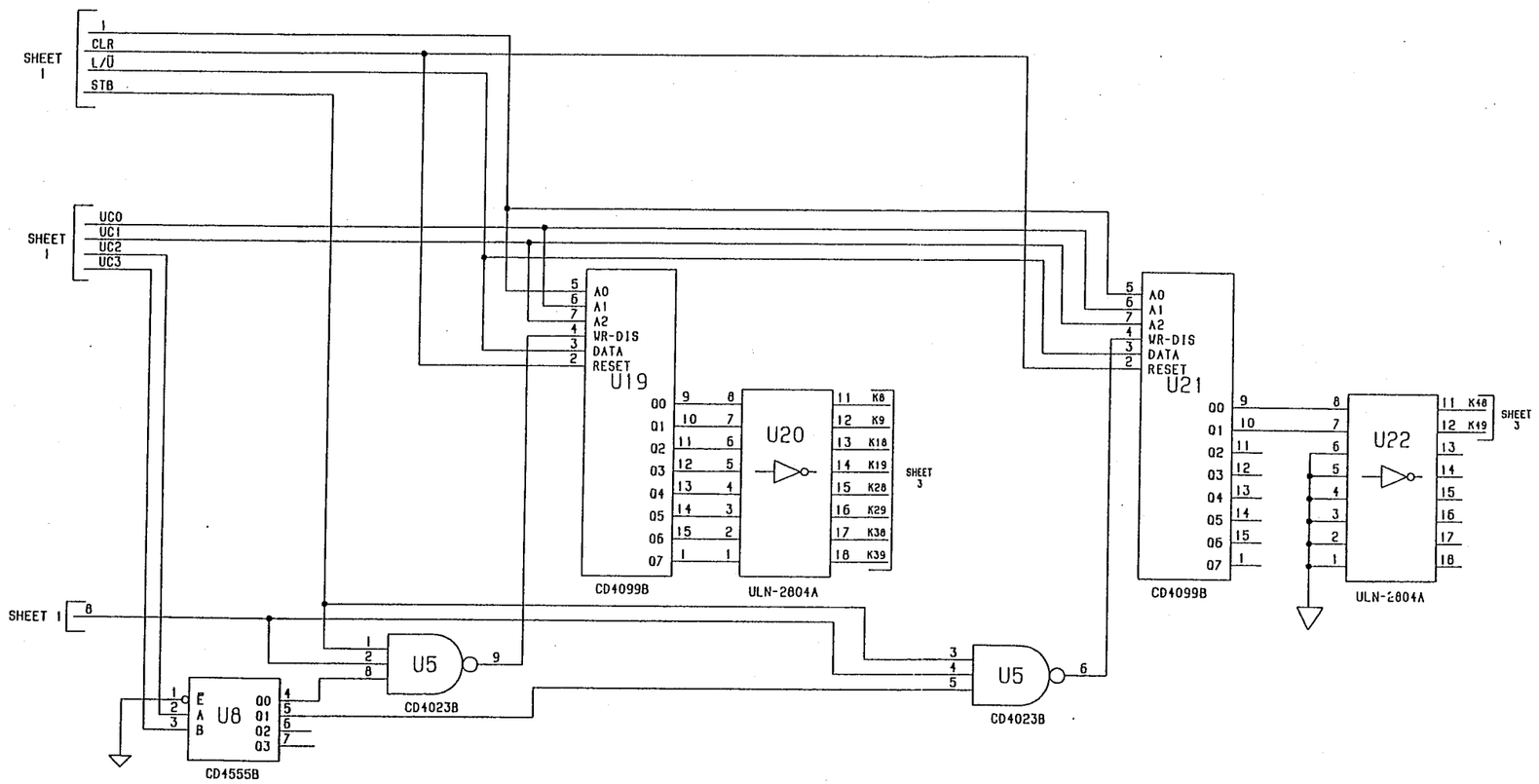
DATE 5-22-89	DRAWING NO. D-S-230103		REV. A
DRAWN BY W H			
CHECK	APPD. wm	PART NO. 6000590	SIZE D
			SHEET 1 OF 3

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

SHEET 1: I, CLR, L/D, STB

SHEET 1: UC0, UC1, UC2, UC3

SHEET 1: 8



4071	14	7		
4555	16	8		
4099	16	8		
4532	16	8		
4050	1	8		
4049	1	8		
4023	14	7		
2804			10	9
I.C.	+12V DD	DD-GND	+12V CS	CS-GND

056071 4000542	230103 2000758
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

wm AUG 30 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

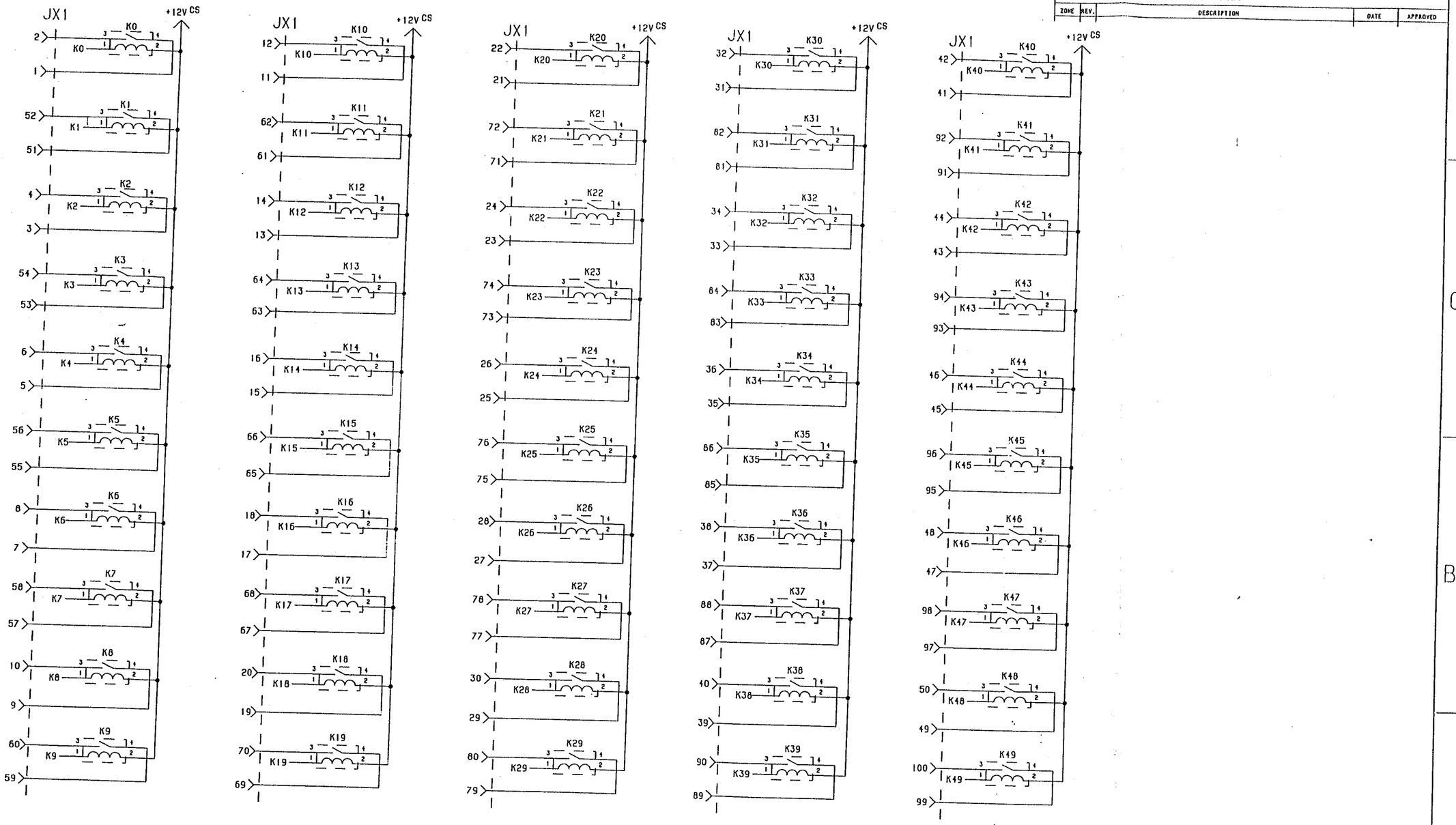
SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE: 50(1 X 1) MATRIX BOARD SCHEMATIC

DATE	DRAWING NO.	REV.
5-30-89	D-S-230103	A
DRAWN BY: W M		
CHECK	APPD. wm	PART NO. 6000590
SIZE: D	SHEET: 2 OF 3	



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

056071 4000542	230103 2000758
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

wm AUG 30 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 50 (X 1) MATRIX BOARD SCHEMATIC

DATE 5-30-89	DRAWING NO. D-S-230103		REV. A
DRAWN BY W M			
CHECK	APPD. wm	PART NO. 6000590	SIZE D
			SHEET 3 OF 3

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE	APPROVED

1B UNITS-1 — U1 — CD40508
1A UNITS-2 — U1 — CD40508
2B UNITS-4 — U1 — CD40508
2A UNITS-8 — U1 — CD40508 — U3 — CD4049UB — SHEET 2
9A CLR — U1 — CD40508
10B L/Ū — U1 — CD40508

U2 — CD40238

U11 — CD40998 — U12 — ULN-2804A — SHEET 3
U13 — CD40998 — U14 — ULN-2804A — SHEET 3
U15 — CD40998 — U16 — ULN-2804A — SHEET 3
U17 — CD40998 — U18 — ULN-2804A — SHEET 3
U19 — CD40998 — U20 — ULN-2804A — SHEET 3

AO A1 A2 WR-DIS DATA RESET
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7

U2 — CD40238
U4 — CD40238
U4 — CD40238
U6 — CD40238

CLR
L/Ū
STB

SHEET 2

TENS-50
TENS-60
TENS-70
TENS-80

UC0
UC1
UC2
UC3

+12V DD

3B TENS-00
3A TENS-10
4B TENS-20
4A TENS-30
5B TENS-40
5A TENS-50
6B TENS-60
6A TENS-70
7B TENS-80
7A TENS-90

U8 — CD45328 — U9 — CD40718

9B STB — U3 — CD4049UB
8B H-SEL
8A K-SEL — U4 — CD40238 — U3 — CD4049UB

15A +12V DD
15B
14A
14B DD-GND
13A +12V CS
13B
12A
12B CS-GND
16A
16B CHASSIS GND

C1 47uf, C2 47uf, C3–C39 .1uf

U10 — CD45558

SPARES

U5 — CD40238
U3 — CD4049UB
U3 — CD4049UB
U3 — CD4049UB
U2 — CD40238
U9 — CD40718
U9 — CD40718

056071	230104
4000542	2000759
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL
FINISH
TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED
2 PLACE DECIMAL ±.02
3 PLACE DECIMAL ±.005
ANGLE ±1°
SCALE
DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 9(1 X 10) 1 WIRE BOARD
SCHEMATIC

DATE 5-22-89	DRAWING NO. D-S-230104		REV.
DRAWN BY V M			
CHECK	APPD.	PART NO. 6000591	SIZE D	SHEET 1 OF 3

REVISIONS			
ZONE REV.	DESCRIPTION	DATE	APPROVED

SHEET 1

U21 U22 U29 U30 U31 U32 U33 U34 — CD4099B / ULN-2804A

U6 U5 — CD4023B

STB
CLR
L/U

TENS-50
TENS-60
TENS-70
TENS-80

UC0
UC1
UC2
UC3

U23 U24 U25 U26 U27 U28 — CD4099B / ULN-2804A

U10 — CD4555B

U7 — CD4023B

4071	14	7		
4555	16	8		
4099	16	8		
4532	16	8		
4050	1	8		
4049	1	8		
4023	14	7		
2804			10	9
I.C.	+12V DD	DD-GND	+12V CS	CS-GND

056071 4000542	230104 2000759
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°
SCALE	

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A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 9(1 X 10) 1 WIRE BOARD SCHEMATIC

DATE 5-22-89	DRAWING NO. D-S-230104		REV.
DRAWN BY V M			
CHECK	APPD.	PART NO. 6000591	SIZE D	SHEET 2 OF 3



REVISIONS			
ZONE	REV.	DESCRIPTION	DATE	APPROVED

056071 4000542	230104 2000759
USED ON	NEXT ASSY

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MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

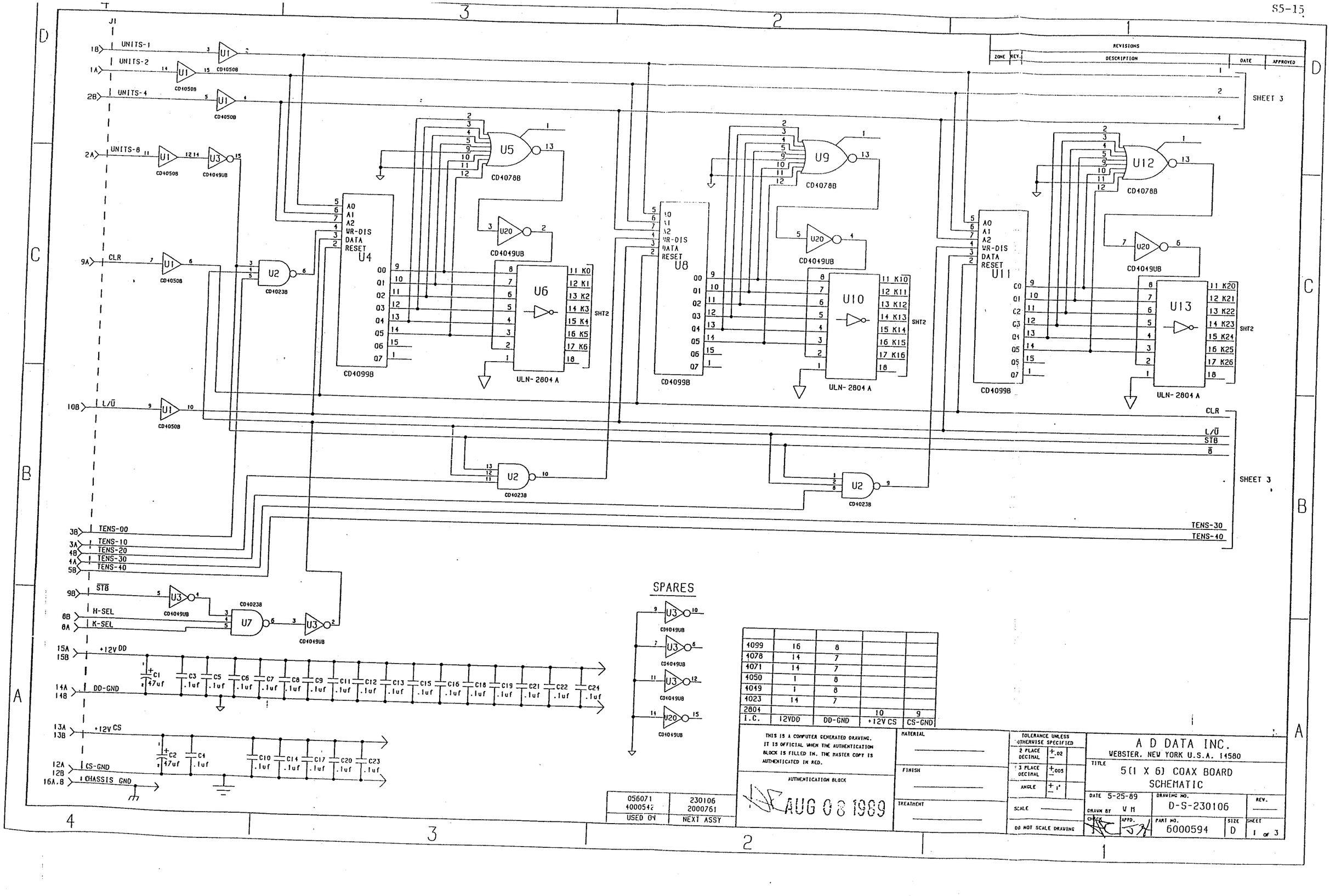
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A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 9(1 X 10) 1 WIRE BOARD SCHEMATIC

DATE 5-22-89 | DRAWING NO. D-S-230104 | REV.

DRAWN BY W M | CHECK | APPD. 5/8 | PART NO. 6000591 | SIZE D | SHEET 3 OF 3



4099	16	8		
4078	14	7		
4071	14	7		
4050	1	8		
4049	1	8		
4023	14	7		
2804			10	9
I.C.	12VDD	DD-GND	+12V CS	CS-GND

056071	230106
4000542	2000761
USED ON	NEXT ASSY

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AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

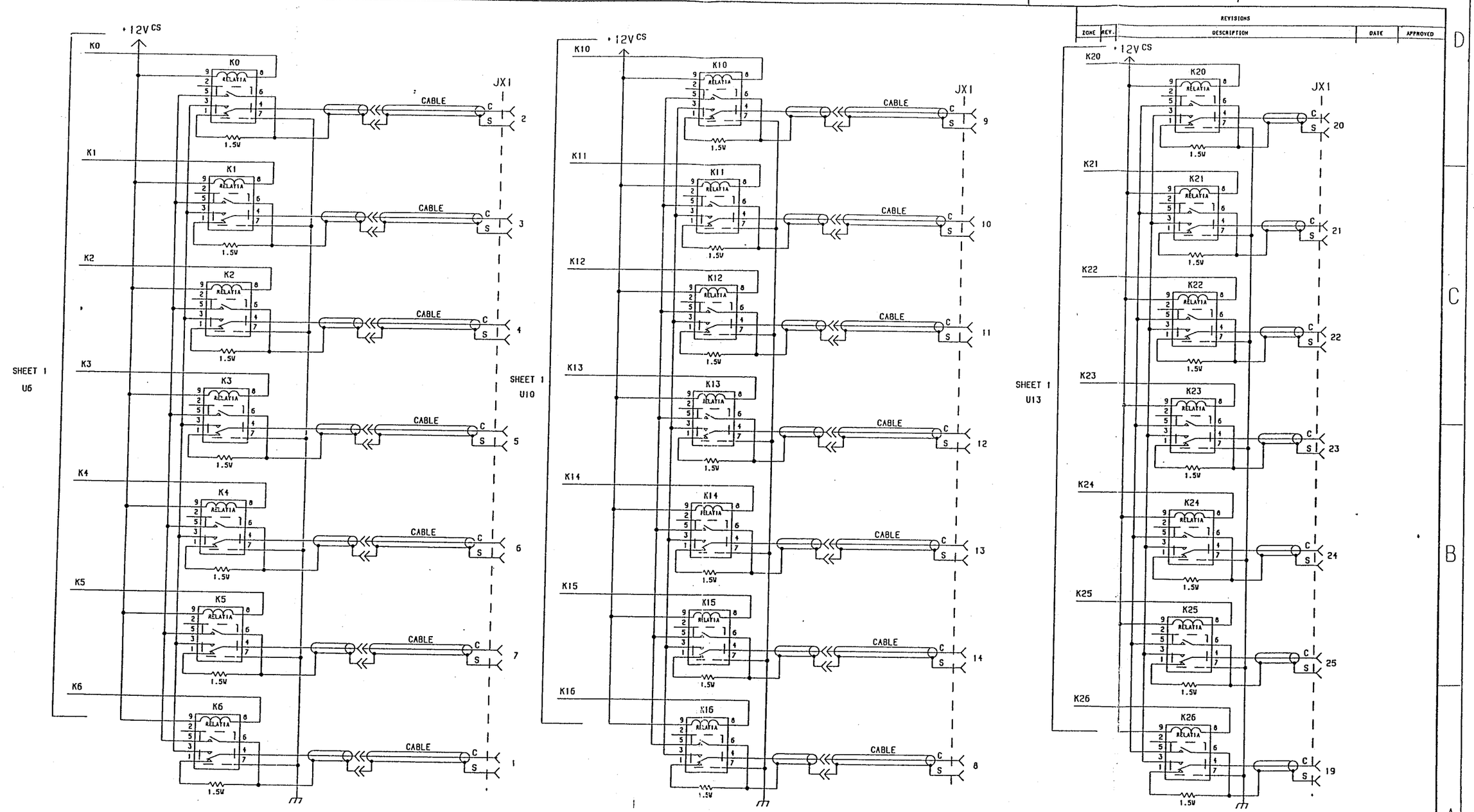
SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE
5(1 X 6) COAX BOARD SCHEMATIC

DATE 5-25-89	DRAWING NO. D-S-230106		REV.
DRAWN BY V M	CHKD.	APPD.	
PART NO. 6000594	SIZE D	SHEET 1 OF 3	



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

056071 4000542	230106 2000761
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE
5(1 X 6) COAX BOARD.
SCHEMATIC

DATE	DRAWING NO.	REV.
5-24-89	D-S-230106	—
DRAWN BY: V M		
CHK'D: AR	APP'D: JN	PART NO. 6000594
SIZE: D	SHEET: 2 OF 3	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

+12V CS

SHEET 1 — A0, A1, A2, WR-DIS, DATA, RESET, L/U, CLR — U14 — CD4099B

U15 — CD4078B

U20 — CD4049UB

U16 — ULN-2804 A

SHT 1 — STB, TENS-30 — U7 — CD40238

K30 K31 K32 K33 K34 K35 K36 — RELAY1A — 1.5W

CABLE — JX1 — C, S — 27, 28, 29, 30, 31, 32, 26

SHEET 1 — A0, A1, A2, WR-DIS, DATA, RESET, L/U, CLR — U17 — CD4099B

U18 — CD4078B

U20 — CD4049UB

U19 — ULN-2804 A

SHEET 1 — STB, TENS-40 — U7 — CD40238

K40 K41 K42 K43 K44 K45 K46 — RELAY1A — 1.5W

JX1 — C, S — 16, 17, 18, 33, 34, 35, 15

056071	230106
4000542	2000761
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

AUG 08 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	±1°

SCALE

DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE: 5(1 X 6) COAX BOARD SCHEMATIC

DATE 5-25-89	DRAWING NO. D-S-230106		REV. —
DRAWN BY W M			
CHKD.	APPD.	PART NO. 6000594	SIZE D	SHEET 3 OF 3

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

J1

1B UNITS-1 — U1 (CD4050B) 3 → 2
1A UNITS-2 — U1 (CD4050B) 14 → 15
2B UNITS-4 — U1 (CD4050B) 5 → 4
2A UNITS-8 — U1 (CD4050B) 11 → 12 — U4 (CD4049UB) 14 → 15
3B TENS-00 — U5 (CD4023B) 3, 4, 5 → 6
10B L/Ū — U1 (CD4050B) 9 → 10
9A CLR — U1 (CD4050B) 7 → 6
8A K-SEL
8B H-SEL
9B STB — U4 (CD4049UB) 5 → 4
U5 (CD4023B) 1, 2, 8 → 9 — U4 (CD4049UB) 3 → 2
15A,15B +12V DD
C1 47uf, C3 .1uf, C5 .1uf, C6 .1uf, C8 .1uf, C9 .1uf, C10
14A,14B DD-GND
13A,13B +12V CS
C2 47uf, C4 .1uf, C7 .1uf
12A,12B CS-GND
16A,16B CHASSIS GND

U2 (CD4099B)
5 A0
6 A1
7 A2
4 WR-DIS
3 DATA
2 RESET
Q0 9, Q1 10, Q2 11, Q3 12, Q4 13, Q5 14, Q6 15, Q7 1

U3 (ULN-2804A)
8 7 6 5 4 3 2 1 → 11 12 13 14 15 16 17 18

U6 (CD4078B)
1, 2, 3, 4, 5, 9, 10, 11, 12
U4 (CD4049UB) 13 → 7 → 6

U5 (CD4023B) 13, 12, 11 → 10
U4 (CD4049UB) 9 → 10
U4 (CD4049UB) 11 → 12

+12V CS

K0 RELAY1A — R1 1.5W — JX1 C/S 31
K1 RELAY1A — R2 1.5W — JX1 C/S 32
K2 RELAY1A — R3 1.5W — JX1 C/S 33
K3 RELAY1A — R4 1.5W — JX1 C/S 34
K4 RELAY1A — R5 1.5W — JX1 C/S 35
K5 RELAY1A — R6 1.5W — JX1 C/S 36
K6 RELAY1A — R7 1.5W — JX1 C/S 30

4099	16	8			056071	230107	
4078	14	7			4000542	2000762	
4050	1	8			USED ON	NEXT ASSY	
4049	1	8					
4023	14	7					
2804							
I.C.	+12V DD	DD-GND	+12V CS	CS-GND			

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MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED
2 PLACE DECIMAL ±.02
3 PLACE DECIMAL ±.005
ANGLE ±1°

SCALE

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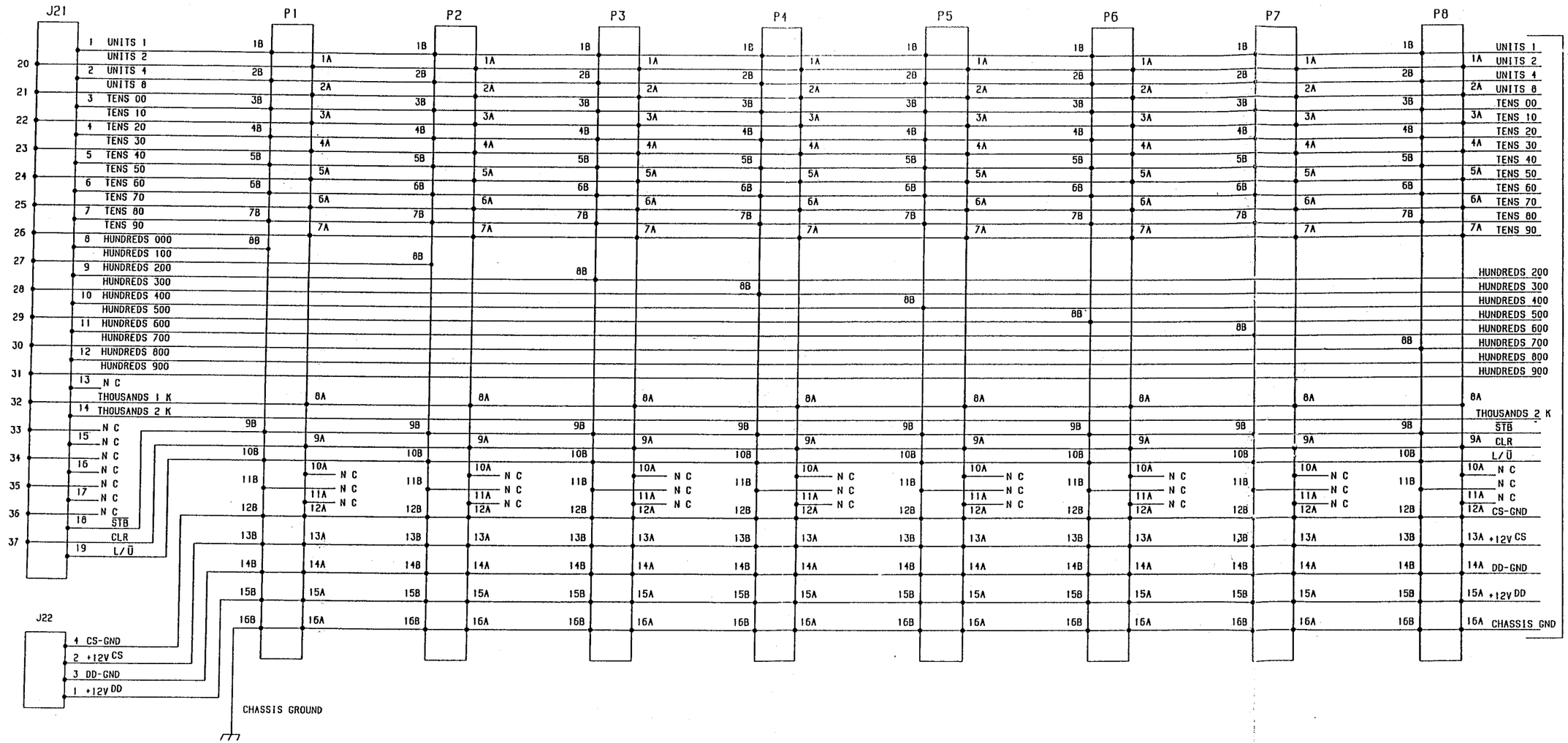
A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE
1 X 6 COAX & FEEDTHROUGH BOARD SCHEMATIC

DATE 5-24-89 | DRAWN BY V M | CHECK | APPD. JM
DRAWING NO. D-S-230107 | REV. —
PART NO. 6000594 | SIZE D | SHEET 1 OF 1

SECTION A1 - ADDENDUMS

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A4	A	PINS 2,3 OF J22 WERE REVERSED.	12-14-89	



SHEET 2

056071 4000542	930061 2000766
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

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MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

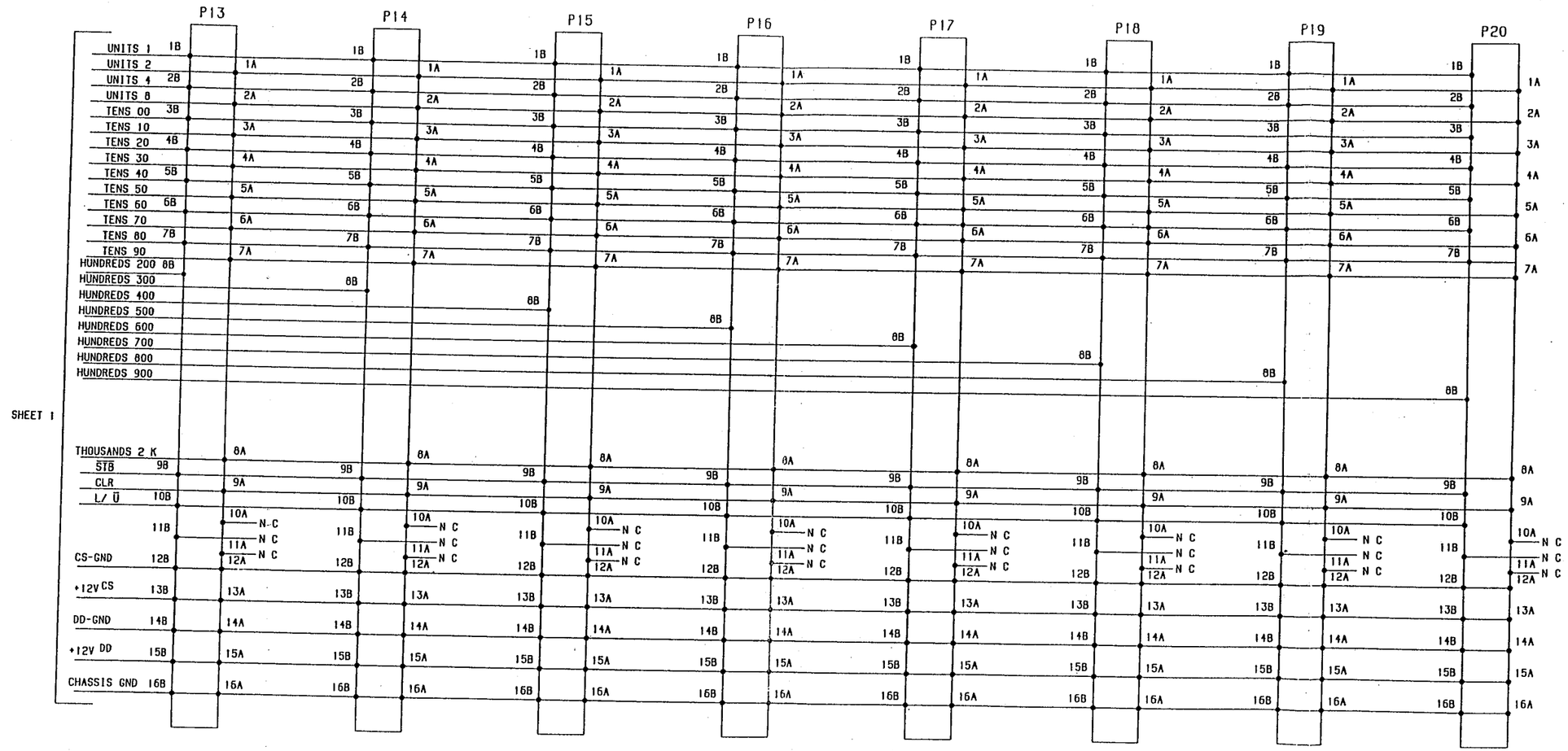
DO NOT SCALE DRAWING

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE MOTHER BOARD SCHEMATIC

DATE	DRAWING NO.	REV.
6-5-89	D-S-930061	A
DRAWN BY: W M		
CHECK: AE / APPD: JK	PART NO. 6000598	SIZE D / SHEET 1 OF 2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



056071 4000542	930061 2000766
USED ON	NEXT ASSY

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AUTHENTICATION BLOCK

DEC 14 1989

MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°
SCALE	
DO NOT SCALE DRAWING	

A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE: MOTHER BOARD SCHEMATIC

DATE 6-6-89	DRAWING NO. D-S-930061		REV. A
DRAWN BY W H			
CHECK	APPD.	PART NO. 6000598	SIZE D
			SHEET 2 OF 2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

4071	14	7		
4555	16	8		
4099	16	8		
4532	16	8		
4050	1	8		
4049	1	8		
4023	14	7		
2804			10	9
I.C.	+12V DD	DD-GND	+12V CS	CS-GND

SPARES

056071	230105	THIS IS A COMPUTER GENERATED DRAWING. IT IS OFFICIAL WHEN THE AUTHENTICATION BLOCK IS FILLED IN. THE MASTER COPY IS AUTHENTICATED IN RED.	MATERIAL
4000542	2000760	AUTHENTICATION BLOCK AUG 08 1989	FINISH
USED ON	NEXT ASSY		TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED
2 PLACE DECIMAL ±.02
3 PLACE DECIMAL ±.005
ANGLE ±1°
SCALE
DO NOT SCALE DRAWING

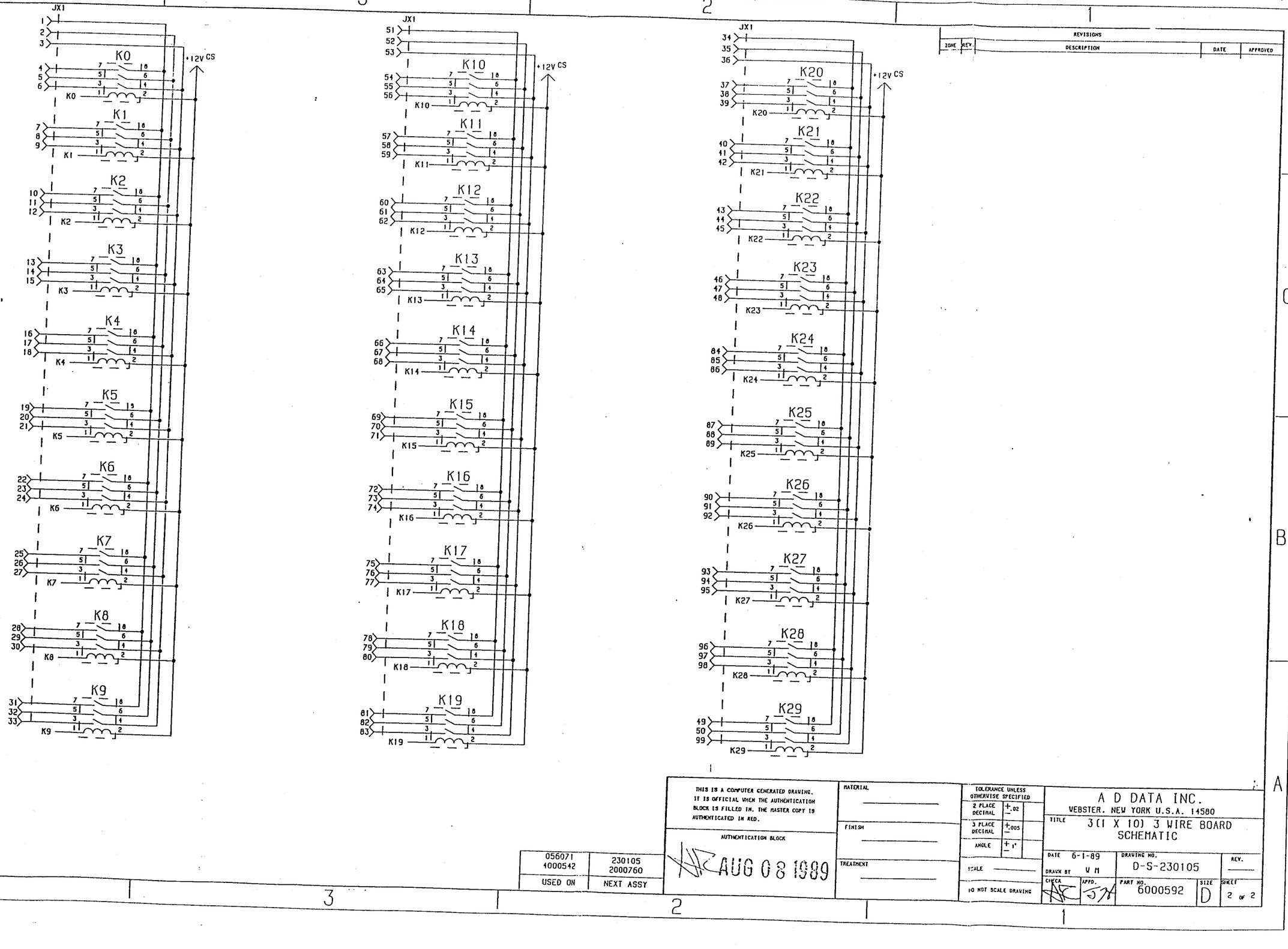
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TITLE 3(1 X 10) 3 WIRE BOARD SCHEMATIC

DATE 5-30-89 DRAWN BY W M CHECK APPD.

DRAWING NO. D-S-230105 REV. —

PART NO. 6000592 SIZE D SHEET 1 of 2



REVISIONS			
ZONE	REV.	DESCRIPTION	DATE	APPROVED

056071 1000542	230105 2000760
USED ON	NEXT ASSY

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MATERIAL

FINISH

TREATMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED

2 PLACE DECIMAL	±.02
3 PLACE DECIMAL	±.005
ANGLE	± 1°

SCALE

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A D DATA INC.
WEBSTER, NEW YORK U.S.A. 14580

TITLE 30(X 10) 3 WIRE BOARD SCHEMATIC

DATE 6-1-89	DRAWING NO. D-S-230105		REV.
DRAWN BY V M	CHECK	APPD.	PART NO. 6000592	SIZE D	SHEET 2 OF 2

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