

Maintenance Diagrams
for
MODELS T25/T50/T80

Maintenance Diagrams
for
MODELS T25/T50/T80

March 1981

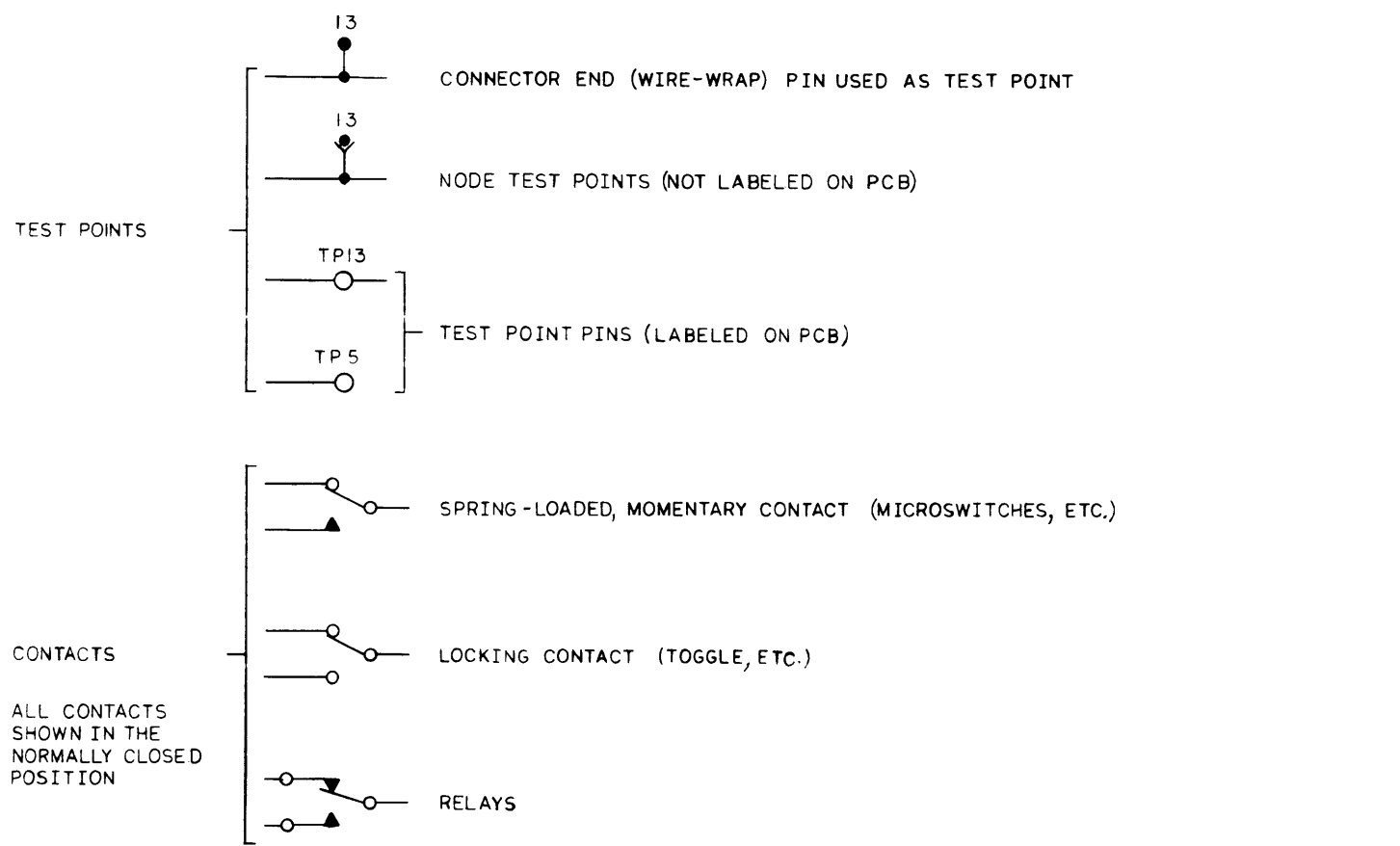
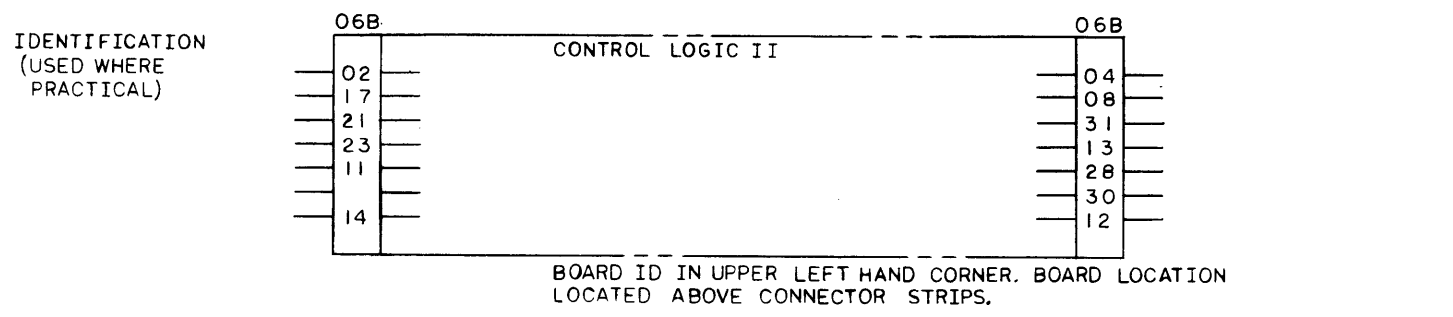
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---	---	--	Logic Symbology Sheet 1	13442-001	C	5.1	Index and Sector	12336-001	Z1		Schematic, Read Write (Sheets 10, 11)
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*22985-001 USED ON T25 UNITS
22985-002 USED ON T50 UNITS

LOGIC FUNCTION	LOGIC SYMBOL	DEFINITION	LOGIC FUNCTION	LOGIC SYMBOL	DEFINITION	LOGIC FUNCTION	LOGIC SYMBOL	DEFINITION	LOGIC FUNCTION	LOGIC SYMBOL	DEFINITION
INVERTER NAT DM936		HIGH IN, LOW OUT	FETS		ARROW IN; 0 VGS TURNS ON	ONE-OF-EIGHT DATA SELECTOR 74151 A		BINARY ADDRESS INPUTS SELECT ONE OF EIGHT DATA INPUTS WHEN E IS LOW. SELECTED DATA INPUT IS AVAILABLE AT I OUTPUT AND COMPLEMENT IS AVAILABLE AT O OUTPUT. WHEN E IS HIGH I OUTPUT IS LOW AND O OUTPUT IS HIGH.			
3-INPUT NAND GATE (AND FUNCTION) 7410		LOW IN, HIGH OUT	ONE-SHOTS		ARROW OUT; 0 VGS TURNS ON						
MULTIPLE-INPUT 7420 7430		ALL HIGHS IN, LOW OUT ANY LOW IN, HIGH OUT PERFORMS AND FUNCTION	(OUTPUT PULSE DURATION DE- TERMINED BY EXTERNAL R/C) MOT MC8602		IC ONE-SHOT						
3-INPUT NAND GATE (OR FUNCTION) 7410		ANY LOW IN, HIGH OUT	AND-NOR GATE 7451		WIRED OR FUNCTION	DECODER, 4-TO-10 LINE 7442		CAN BE USED AS EITHER 4-TO-10 LINE OR 3-TO-8 LINE DECODER. BINARY CONFIGURATION OF SELECT INPUTS DETERMINES WHICH OUTPUT GOES LOW. USING MSB AS LOW ENABLE INPUT CONVERTS FUNCTION TO 3-TO-8 LINE DECODER			
MULTIPLE-INPUT 7420 7430		ALL HIGHS IN, LOW OUT ANY LOW IN, HIGH OUT PERFORMS OR FUNCTION				7445			ANALOG SWITCH		A INPUT HIGH, B INPUT LOW, SWITCH ON CONDITION
2-INPUT OR GATE 7432		EITHER INPUT HIGH, OUTPUT HIGH									
2-INPUT NAND GATE 7400		BOTH INPUTS HIGH OUTPUT LOW	CROSS-COUPLED LATCH			COUNTER 74193		IF THE LOAD INPUT IS HIGH, THE COUNTER INCREMENTS WITH A POSITIVE TRANSITION AT THE C/U INPUT AND IT DECREMENTS WITH A POSITIVE TRANSITION AT THE C/D INPUT. THE OUTPUTS ARE SET TO THE DATA INPUTS WHEN THE LOAD IS LOW, THE COUNTER IS CLEARED WHEN THE R INPUT IS HIGH. THE CARRY OUT IS LOW ACTIVE WHEN THE COUNTER IS COUNTING UP AND THE DATA OUTPUTS ARE ALL HIGH AND THE C/U INPUT IS LOW. THE BORROW OUTPUT IS LOW ACTIVE WHEN THE DATA OUTPUTS ARE ALL LOW AND THE C/D INPUT IS LOW.	COUNTER 74197		OPERATES AS A 4-BIT COUNTER WHEN A OUTPUT CONNECTED TO CLOCK C2 DATA INPUT. PRESETS COUNTER WHEN COUNT/LOAD INPUT GOES LOW. BINARY COUNT IS INCREMENTED EACH TIME CLOCK C1 GOES LOW. WITH COUNT/LOAD INPUT HIGH. ALL OUTPUTS GO LOW WHEN RESET GOES LOW REGARDLESS OF CLOCK INPUTS.
2-INPUT AND GATE 7408		BOTH INPUTS HIGH, OUTPUT HIGH	J-K FLIP-FLOP 74107		SET INPUT LOW, LATCH SETS SET AND RESET INPUT LOW, BOTH OUTPUTS HIGH RESET INPUT LOW, LATCH RESETS						
EXCLUSIVE OR GATE 7486		INPUTS NOT IDENTICAL, HIGH OUTPUT, INPUTS IDENTICAL, LOW OUTPUT			J INPUT HIGH AND K INPUT LOW, I OUTPUT GOES HIGH WHEN CLOCK GOES LOW, J INPUT LOW AND K INPUT HIGH, I OUTPUT GOES LOW WHEN CLOCK GOES LOW. O OUT- PUT COMPLEMENTS I OUT- PUT. J AND K INPUTS BOTH HIGH, FLIP-FLOP TOGGLES WHEN CLOCK GOES LOW. DIRECT RESET INPUT LOW, FLIP-FLOP RESETS WITHOUT CLOCK				D FLIP-FLOP 7474		I OUTPUT FOLLOWS DATA INPUT WHEN CLOCK GOES LOW TO HIGH. O OUTPUT COMPLEMENTS I OUTPUT. DIRECT SET INPUT LOW, FLIP-FLOP SETS, DIRECT RES- ET INPUT LOW, FLIP-FLOP RESETS.
LINE RECEIVERS 7404		HIGH IN, LOW OUT			QUAD LATCH 7475			CLOCK INPUT HIGH, Q OUTPUT FOLLOWS D INPUT			
LINE DRIVERS 7404		LOW IN, HIGH OUT			FULL ADDERS MOT MC8304			INPUTS OR OUTPUTS THRU O'S ARE LOW ACTIVE, INPUTS ARE A B AND C _I (CARRY IN). OUTPUTS ARE S (S/IS INVERSE OF S) AND C _O (CARRY OUT)			
RELAY DRIVERS		LOW IN, LOW OUT			QUAD 2-TO-1 MULTIPLEXER 74157			WITH ENABLE INPUT LOW, OUTPUTS CONNECT TO 0 DATA INPUTS WHEN S IS LOW, AND TO I DATA INPUTS WHEN S IS HIGH			
LAMP DRIVERS 7407		HIGH IN, HIGH OUT			COUNTER 74191			THE COUNTER INCREMENTS OR DECREMENTS WITH A POSITIVE TRANSITION OF THE CLOCK INPUT IF THE ENABLE INPUT IS LOW. A HIGH AT THE ENABLE INPUT INHIBITS COUNTING. WHEN THE DOWN/UP INPUT IS LOW, THE COUNTER INCREMENTS. THE OUTPUTS ARE SET TO THE DATA INPUTS WHEN THE LOAD INPUT IS LOW. THE M OUTPUT IS HIGH WHEN ALL DATA OUTPUTS ARE HIGH AND IN COUNT UP MODE OR WHEN ALL ARE LOW AND IN COUNT DOWN MODE. THE CARRY OUT IS LOW ACTIVE WHEN ALL DATA OUTPUTS ARE HIGH AND THE CLOCK IS LOW AND IN UP COUNT MODE. THE CARRY OUT IS ALSO LOW ACTIVE WHEN ALL DATA OUTPUTS ARE LOW AND THE CLOCK IS LOW AND IN DOWN COUNT MODE.			
MOT MC1733		DIFFERENTIAL									
LM324		OPERATIONAL OR SCHMITT TRIGGER COMPARATOR									
LM339		LOW ENABLE									
AMPLIFIERS		HIGH ENABLE									

LOGIC FUNCTION	LOGIC SYMBOL	DEFINITION
ON-PAGE SIGNAL (SCHEMATICS ONLY)		SHORT LEADER LINES INDICATE NUMBER AND DIRECTION IN WHICH CORRESPONDING SIGNALS ARE LOCATED. TOTAL NUMBER OF CORRESPONDING SIGNAL LEADER LINES APPEAR AT SOURCE ONLY.
TERMINATOR		TERMINATING RESISTOR
PULL-UP		PULL-UP RESISTOR
PULL-DOWN		PULL-DOWN RESISTOR
FILTER		R-C NETWORK
INPUT SIGNALS (LDXX) SELHDL FROM LOGIC DIAGRAM PAGE XX THROUGH CONNECTOR PIN		 INPUT SIGNAL FROM SAME BOARD SHOWN ON SEPARATE LOGIC DIAGRAM PAGE XX
OUTPUT SIGNALS TO LOGIC DIAGRAM XX THROUGH CONNECTOR PIN		 OUTPUT SIGNAL TO SAME BOARD SHOWN ON SEPARATE LOGIC DIAGRAM PAGE XX



REFERENCE SYMBOLS

SKFWD * E / THIS SIGNAL, WHEN LOW, DC RESETS THE SKFWD FLIP-FLOP

LOW ACTIVE (SLASH)
HIGH ACTIVE (NO SLASH)

FUNCTION

S = SET

R = RESET

M = MARK, DC SET

E = ERASE, DC RESET

C = CLOCK

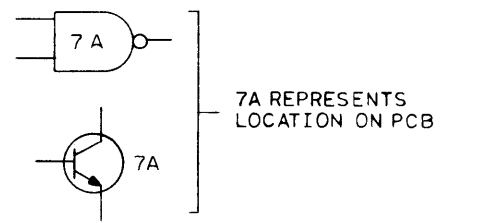
FUNCTION SEPARATOR

SIGNAL (MNEMONIC)

WRENA; OI REPOWERING NOTATION: TWO OR MORE SIGNALS GENERATED IN PARALLEL FOR LOADING

LETTER COMBINATIONS USED WITHIN IC SYMBOLS

A, B, C, D	DATA INPUTS
BO	COUNTER BORROW OUT
C OR CL	CLOCK
C/D	DOWN CLOCK COUNTER INPUT
C/L	COUNT/LOAD
CO	COUNTER CARRY OUT
C/U	UP CLOCK COUNTER INPUT
D	DATA INPUT TO REGISTER, D FLIP-FLOP, OR QUAD LATCH
E	ENABLE
J	SET INPUT TO J-K FLIP-FLOP
K	RESET INPUT TO J-K FLIP-FLOP
L OR LD	LOAD ENABLE
LSB	LEAST SIGNIFICANT BIT
MSB	MOST SIGNIFICANT BIT
I OR Q	SET OUTPUT OF FLIP-FLOP
O OR Q	COMPLIMENT OF SET OUTPUT OF FLIP-FLOP
QA, QB, QC, QD	DATA OUTPUTS
QM	COUNTER FULL/EMPTY OUTPUT
R	DIRECT RESET INPUT TO FLIP-FLOP
S	DIRECT SET INPUT TO FLIP-FLOP
S/L	SHIFT/LOAD
U/D	UP/DOWN CONTROL



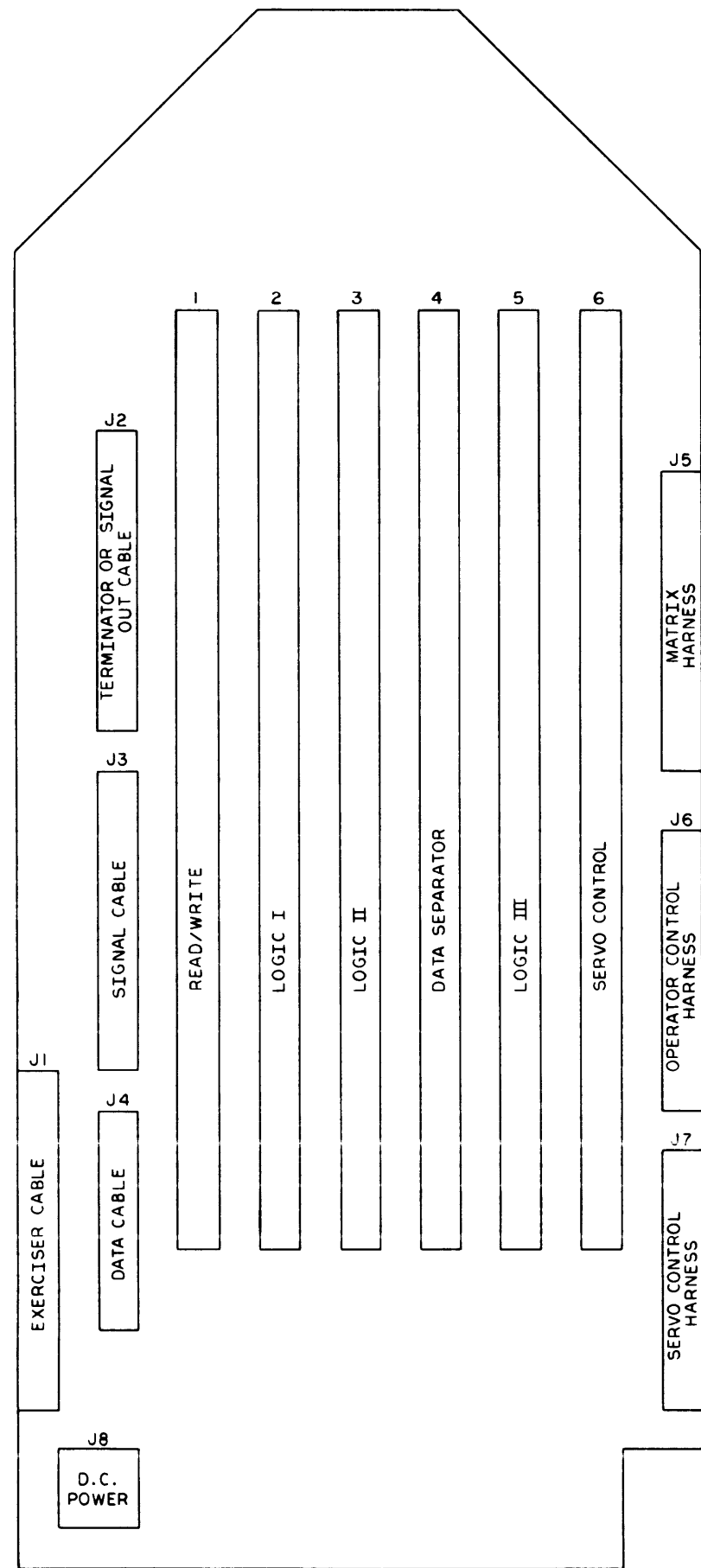
LOGIC DIAGRAM INDEX AND REVISION CONTROL		
SH	DIAGRAM INDEX	REV
5	LD1.0 EXERCISER INTERFACE	C
6	LD1.1 INPUT INTERFACE AND DEGATE	T
7	LD1.2 INPUT INTERFACE	E
8	LD1.3 BUS/ TAG DECODE	G
9	LD2.0 SWITCHES AND INTERLOCKS	T
10	LD2.1 SEQUENCE OSCILLATOR COUNTER	G
11	LD2.2 PACK ON AND SEQUENCE LOGIC	V
12	LD2.3 SEQUENCE LOGIC AND RELAY DRIVERS	P
13	LD2.4 AC CONTROL AND DISTRIBUTION	P
14	LD2.5 SPEED DETECTION	V
15	LD3.0 SERVO CONTROL	T
16	LD3.1 SERVO CONTROL LOGIC	G
17	LD3.2 SERVO CONTROL AND READY	F
18	LD3.3 HDLD AND HDLDDY, DIFF. CLOCK AND UTH	T
19	LD3.4.0 SUBTRACTOR CONTROL AND ILLCYL LOGIC T50,T80	F
20	LD3.4.1 SUBTRACTOR CONTROL AND ILLCYL LOGIC T25	F
21	LD3.5.0 CAR AND SUBTRACTOR T50 ,T80	T
22	LD3.5.1 CAR AND SUBTRACTOR T25	T
23	LD3.6.0 DIFFERENCE COUNTER T50,T80	E
24	LD3.6.1 DIFFERENCE COUNTER T25	C
25	LD3.7 D/A CONVERTER AND AMPLIFIER DRIVER	C
26	LD3.8 POWER AMP AND LINEAR MOTOR	F
27	LD4.0 SERVO HEAD PREAMP AND POWER ON/	T
28	LD4.1 PLO T25,T50	T
29	LD4.1.1 PLO T80	T
30	LD4.2 POSITION, UTH #HDLD, AGC, GAPCLK	T
31	LD5.0 READY INDICATOR AND READ ONLY	T
32	LD5.1 INDEX AND SECTOR	C
33	LD6.0 R/W MATRIX T25,T50	T
34	LD6.0.1 R/W MATRIX T80	K
34.1	LD6.0.2 R/W MATRIX POWER T25,T50	S
34.2	LD6.0.3 R/W MATRIX POWER T80	S
35	LD6.1 READ AMP, C.O.D AND HEADS UNSAFE T25,T50	E
36	LD6.1.1 READ AMP, C.O.D AND HEADS UNSAFE T80	K
37	LD6.2 DATA SEPARATOR T25,T50	P
38	LD6.2.1 DATA SEPARATOR T80	U
39	LD6.3 DATA SEPARATOR DATA AND CLOCKS T25,T50	U
39.1	LD6.3.1 DATA AND CLOCKS T80	U
40	LD6.4 DATA SEPARATOR FAST LOCK AND ADMK CONTROL T25,T50	F
41	LD6.4.1 ADMK CONTROL AND PHASE SYNC T80	U
42	LD6.5 DATA SEPARATOR -WRITE ENCODE T25,T50	F
43	LD6.5.1 WRITE ENCODE T80	U
43.1	LD6.5.2 WRITE ENCODE T80	U
43.2	LD6.5.3 WRITE ENCODE T80	U
44	LD7.0 ERROR DETECTION	T
45	LD7.1 DCUSF EMERGENCY RETRACT AND MODULE IN INTERLOCK	T
46	LD7.2 SEEK INCOMPLETE	T
47	LD8.0 ATTENTION AND EOC	C
48	LD8.1 OUTPUT INTERFACE	P
49	LD9.0.1 POWER SUPPLY TRIDENT	V
50	LD9.1 POWER SUPPLY 5V REGULATOR	V

REVISIONS			
REV	ZONE	DESCRIPTION	INC BY APPROVAL & DATE
E		REVISED AND REDRAWN, EXTENSIVE CHANGES	6.9.R. J.P. 12/17/75
F		REVISED AND REDRAWN, EXTENSIVE CHANGES, SEE REV E FOR WAS CONDITION	6.9.D. J.P. 12/17/75
FI		PRODUCTION RELEASE PER ECO 11552	6.9.D. J.P. 12/17/75
G		REVISED PER ECO 12512	WILSEY 12/17/75
H		REVISED PER ECO 12514	WILSEY 12/17/75
J		REV. PER ECO 12905	PH 12/17/75
K		REV PER ECO 12959	SK 12/17/75
L		CHGD SIG NAME AT 3A/B-B40 ON SH 31 WAS:DCUSF/(LD1.3) PER ECO 13233	10-3-77 SK
M		SHT4, LOGIC III INT-25-T50/T80 WAS: 12348-001 PER ECO 13545	12/17/77 K.L. 11-30-77
N		REVISED PER ECO 13545	12/17/77 W.N.R. 12/17/77
P		REVISED PER ECO 13737	12/17/77 SK
R		REVISED PER ECO 14541	3G 3-28-79
S		REVISED PER ECO 14449	W.B. 3-11-79
T		REVISED PER ECO 14432	W.B. 3-11-79
U		REVISED PER ECO 14707	W.B. 3-11-79
V		REVISED PER ECO 13442-V	11E 11/10/80

MODEL NO. FIRST USE T50	NEXT ASSY FIRST USE	
UNLESS OTHERWISE SPECIFIED	DRAWN G. BREWERY 11-25-75	CALIFORNIA COMPUTER PRODUCTS INC.
DIMENSIONS ARE IN INCHES	CHECK	TRIDENT T25/T50/T80 LOGIC
TOLERANCES ON	APPD	
DECIMALS	APPD	C.C.
ANGLES	FINISH	
XX ±		
XXX ±		
	MATERIAL	SCALE: NONE
		SIZE D
		DWG NO. 13442-001
		REV V
	SURFACE ROUGHNESS PER MIL-STD-10	DO NOT SCALE THIS DRAWING
		WEIGHT
		SHEET 1 OF 50

13442-001 V

MODULE NAME	PART NUMBER		
	T-25	T-50	T-80
LOGIC I	18099-001	12342-001	12342-001
LOGIC II	15847-001	15847-001	15847-001
LOGIC III	19508-001	19508-001	19508-001
READ/WRITE	18465-001	12336-001	17771-001
DATA SEPARATOR	14440-001	14440-001	17530-001
SERVO CONTROL	14556-001	14556-001	18752-001
R/W MATRIX	18406-001	15141-001	17589-001
SERVO PREAMP	14912-001	14912-001	14912-001



Century Data AMARILLO, CALIFORNIA		MODULE LOCATION CHART	
DRAWN	<i>L. Salisbury</i>	DATE	8-6-75
CHECK		SIZE	D
APPD		REV	13442-001 M
SCALE: _____		SHEET 4 OF 1	

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J

D

C

C

B

B

A

A

FROM EXERCISER

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- EOFFSET
- EDCUSF
- GND
- EEMRET
- ESKENA
- EDEVCKR/W
- EHDEXT
- EWTRDY
- EOSERR
- EDRVMTR
- ESKINC
- EBRUSHEXT
- EFWD
- EWRTUTH
- ETRKFL
- EWRT
- EXERIN/
- ERDY
- EWRONLY
- ERead
- ELDSP
- ESCILLOS
- ET25/
- ELIDCLSD
- EBRAKE
- ESCRDY
- ERETHD
- ESPEED
- EWRTOS
- ESKINCENA
- EHDL
- EBUS8/
- EBUS6/
- EBUS7/
- EHAR4/
- EHAR2/
- EHARI/
- EBUS9/
- ET80/
- EBUS4/
- EBUS1/
- EBUS2/
- EBUS5/
- EBUS3/
- ESETCYLTAG/
- EBUS0/
- EWRT#C/
- EIDX
- DEGATE/
- ECONTROLTAG/
- ESETHDTAG/
- GND
- +5V
- +5V

DWG NO. 13442-001C

Century Data		ANAHEIM, CALIFORNIA	
EXERCISER INTERFACE LDI.O			
DRAWN	<i>J. Salisbury</i>	3-26-75	SIZE
CHECK			D 13442-001
APPD			REV C
SCALE:		SHEET 5 OF	

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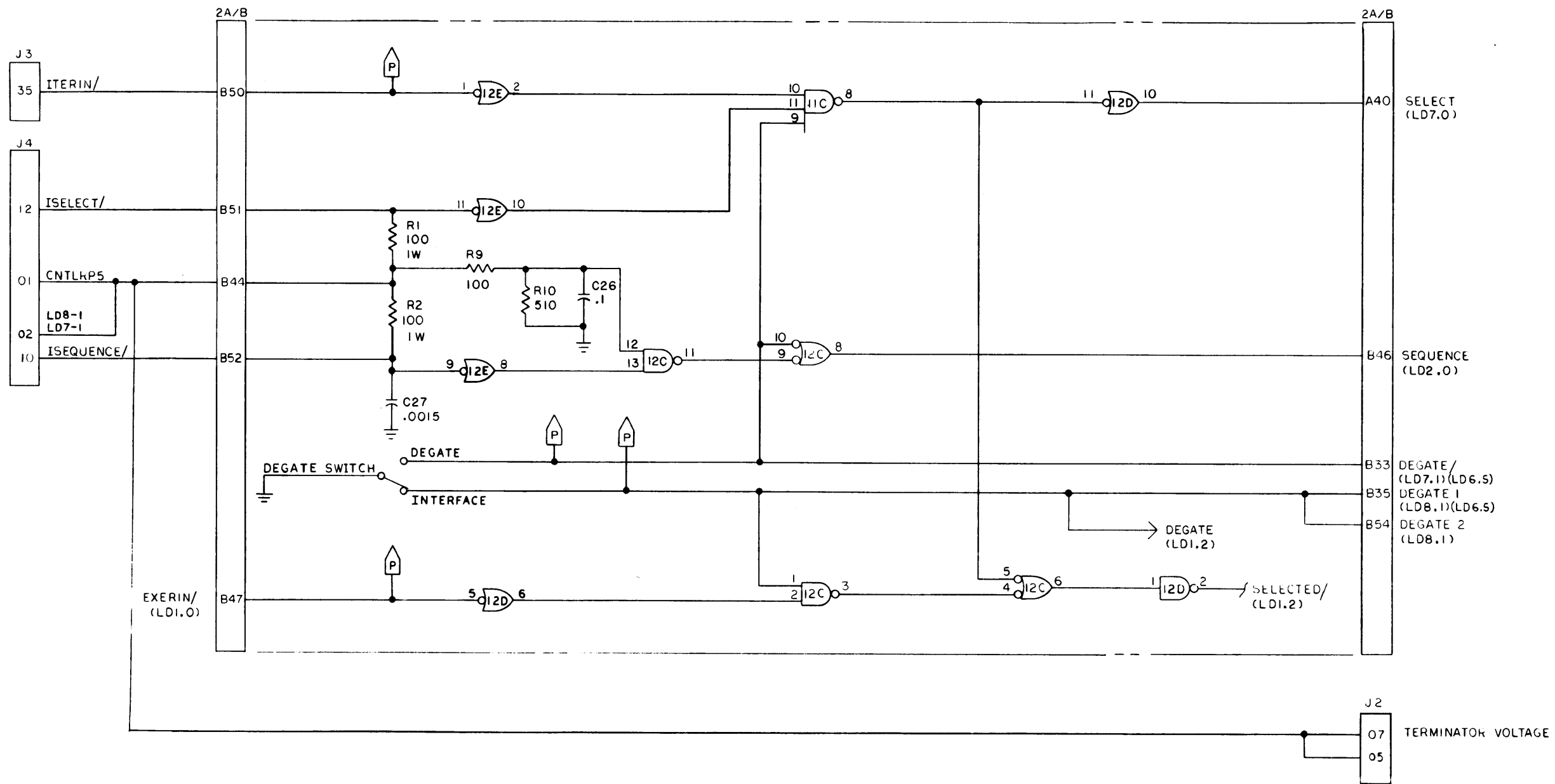
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B

A

A



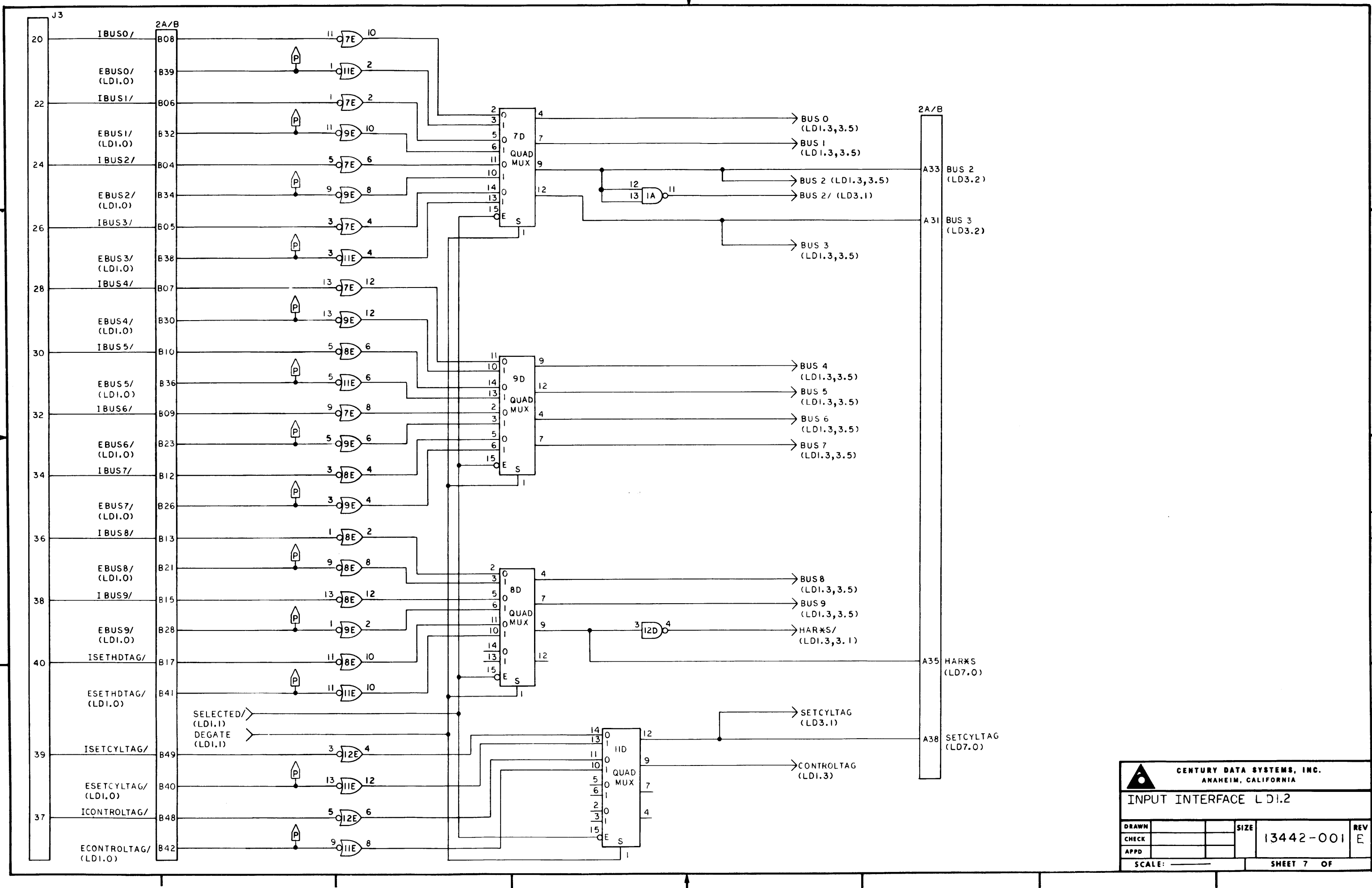
13442-001

CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

**INPUT INTERFACE AND DEGATE
LD1.1**

DRAWN	<i>J. Resney</i>	12-13-74	SIZE		REV
CHECK				13442-001	T
APPD					

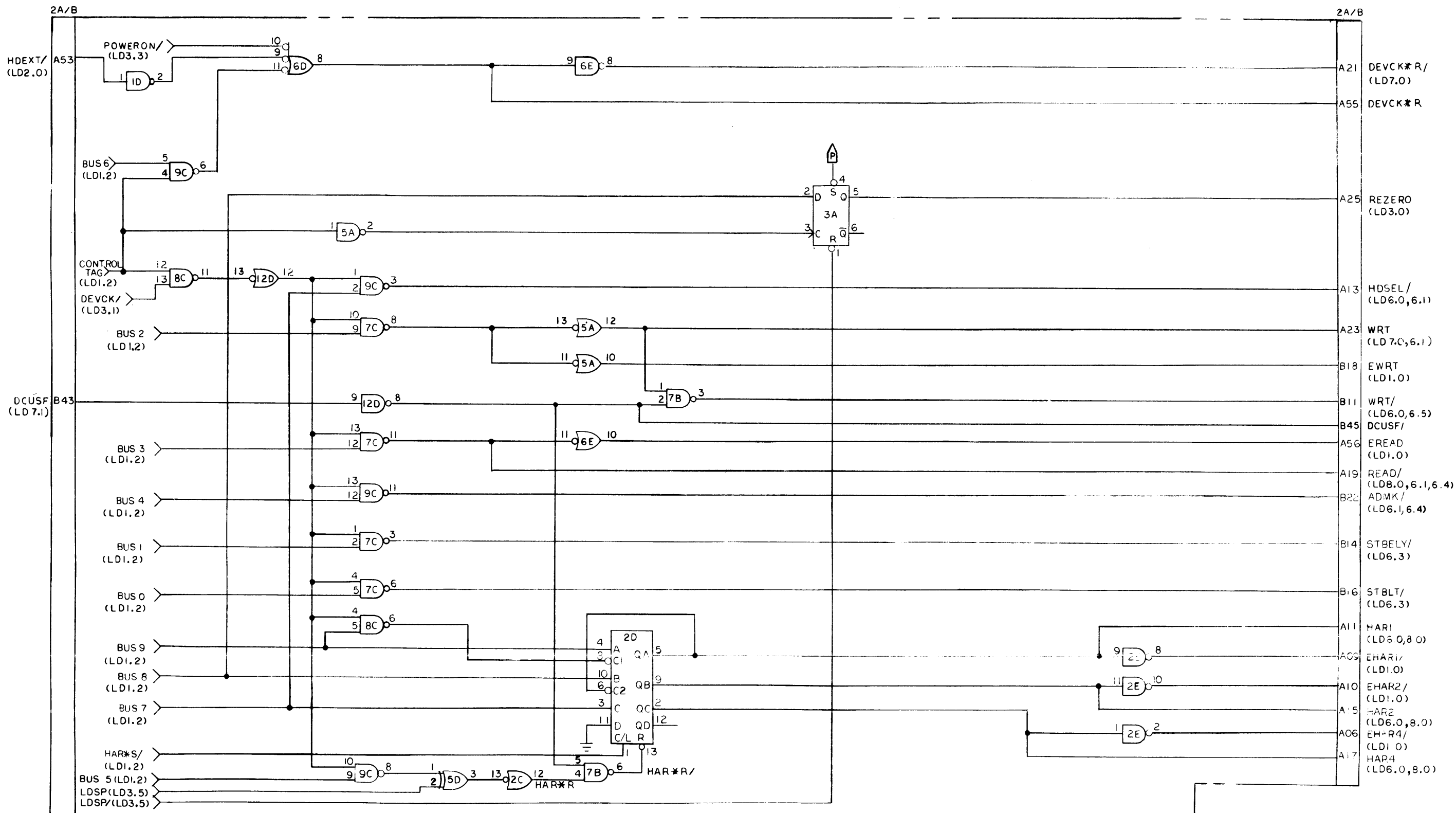
SCALE: _____ SHEET 6 OF _____



E

13442-001

CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
INPUT INTERFACE LD1.2			
DRAWN		SIZE	REV
CHECK		13442-001	E
APPD			
SCALE:		SHEET 7 OF	



CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

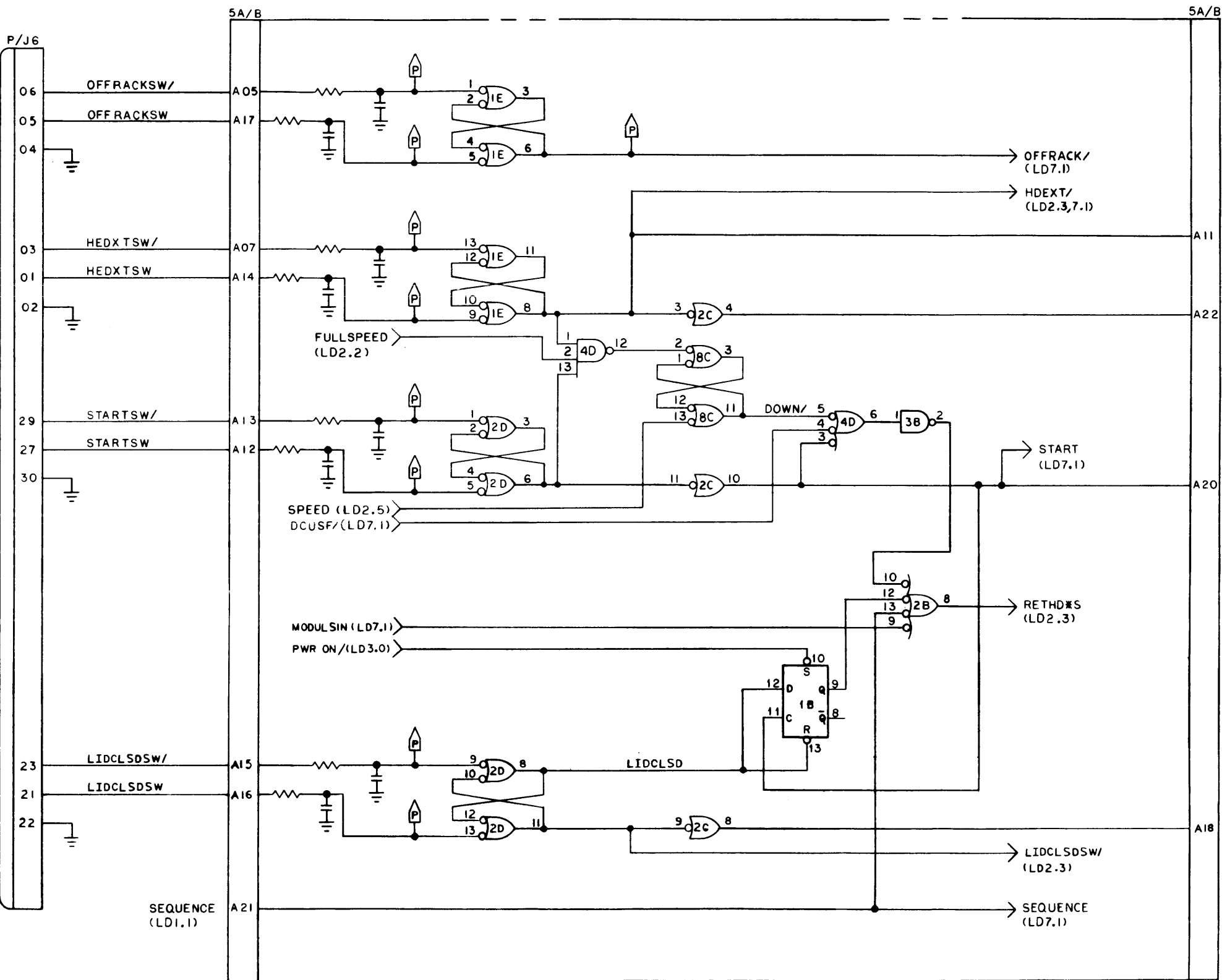
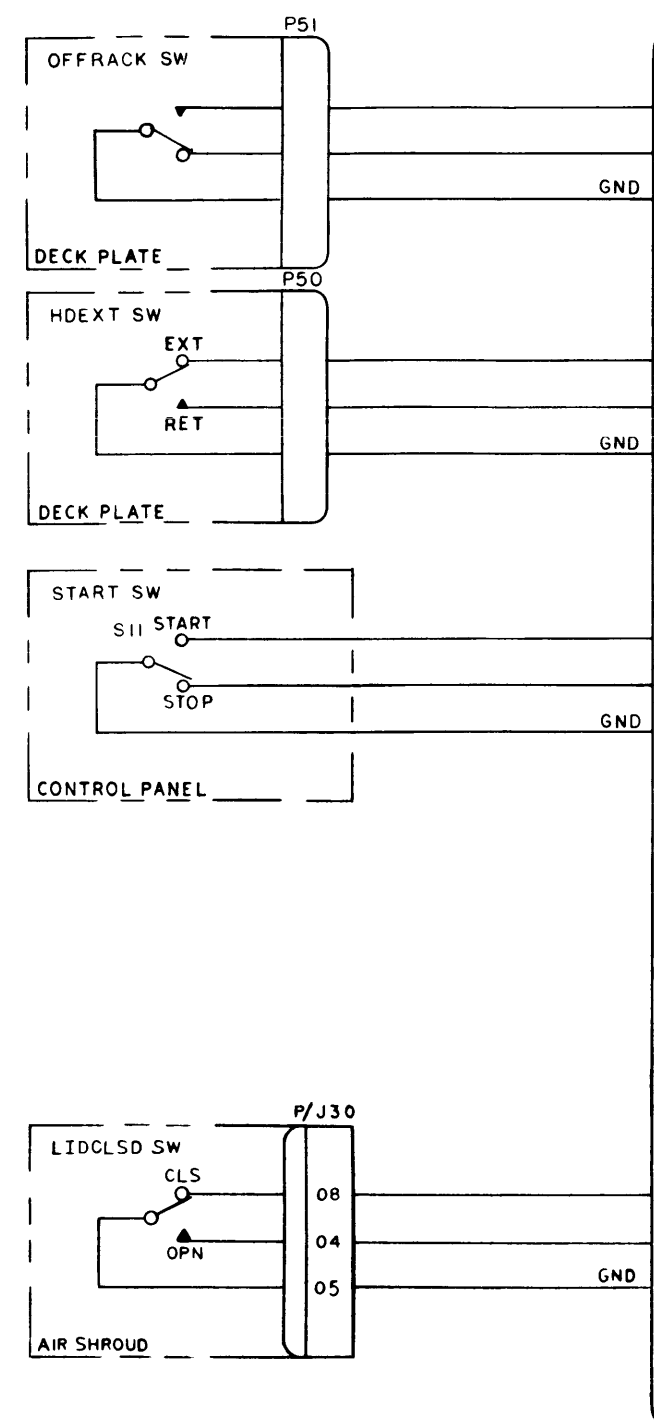
BUS/TAG DECODE LD 1.3

DRAWN	G. Dewey	2-6-75	SIZE	REV
CHECK			13442-001	G
APPD				
SCALE:			SHEET 8 OF	

13442-001 G

D
C
B
A

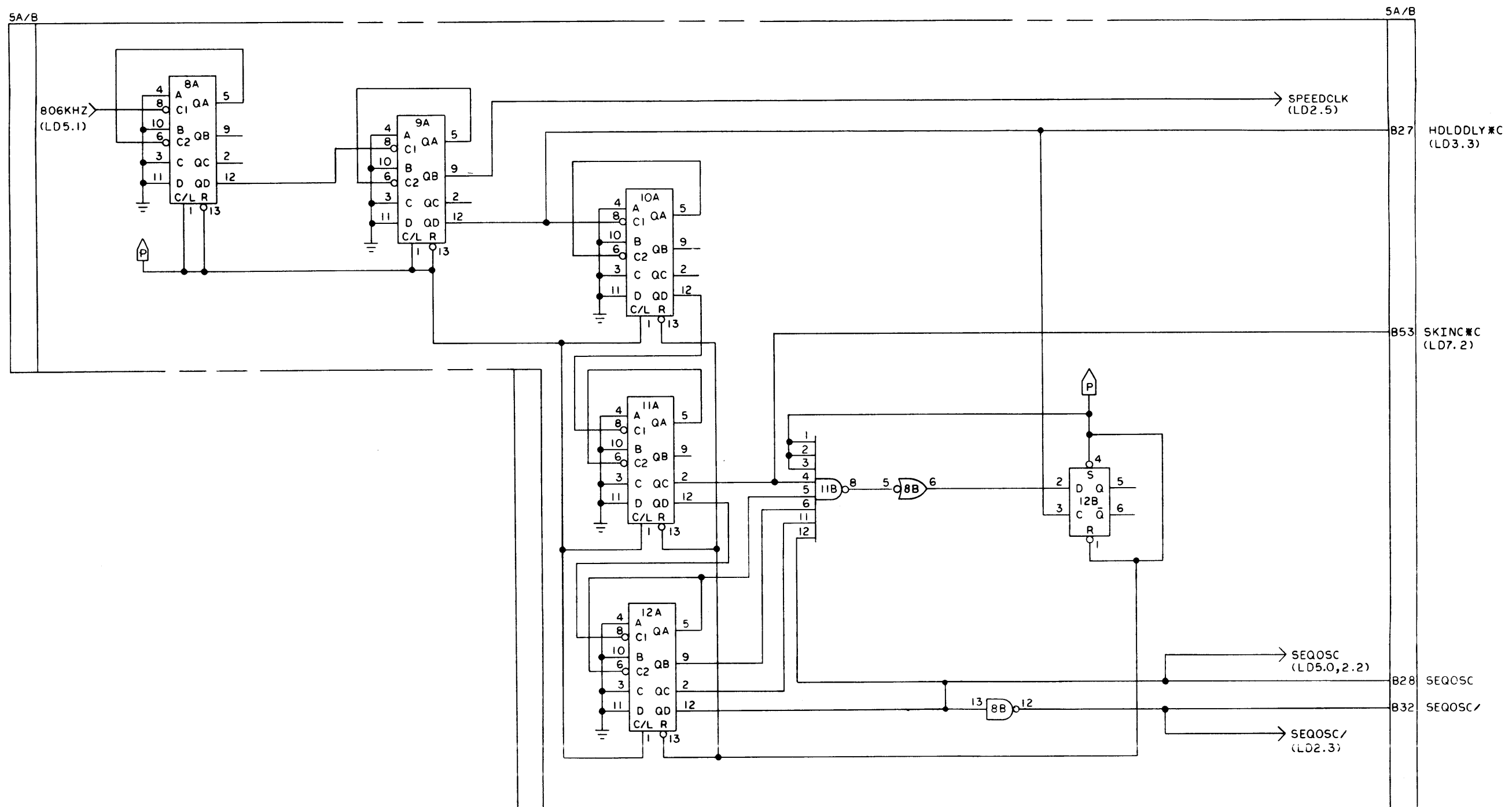
D
C
B
A



OFFRACK/
(LD7.1)
HDEXT/
(LD2.3,7.1)
HDEXT/
(LD1.3,3.1)
EHDEXT
(LD1.0)
START
(LD7.1)
START
(LD7.2)
RETHD*
(LD2.3)
ELIDCLSD
(LD1.0)
LIDCLSDSW/
(LD2.3)
SEQUENCE
(LD7.1)

Century Data AMATEK, CALIFORNIA	
SWITCHES AND INTERLOCKS LD2.0	
DRAWN	10-31-74
CHECK	
APPD	
SCALE:	
SIZE D	13442-001
REV T	
SHEET 9 OF	

DWG NO. 13442-001 REV. T



CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

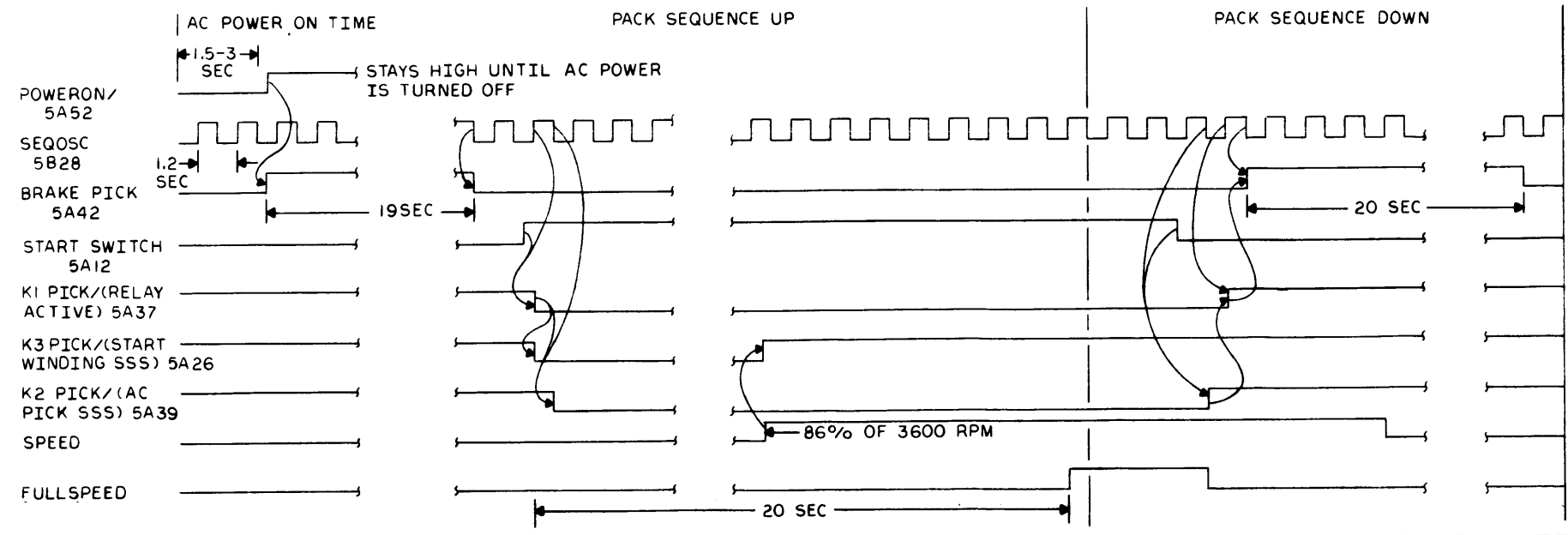
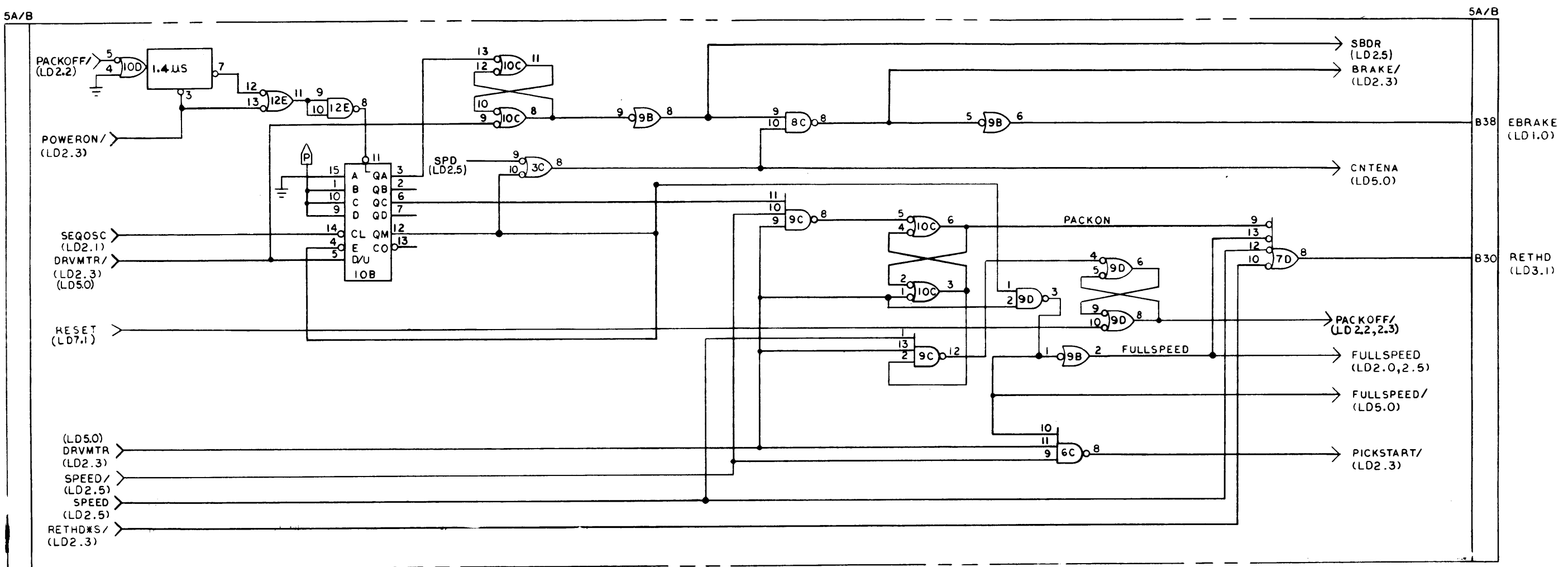
**SEQUENCE OSCILLATOR
COUNTER (LD2.1)**

DRAWN	<i>J. Salisbury</i>	12-3-74	SIZE	D	13442-001	REV	G
CHECK							
APPD							

SCALE: _____ SHEET 10 OF _____

DWS NO. 13442-001 REV G

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THE FOLLOWING CONDITIONS MUST BE MET TO INITIATE PACK SEQUENCE UP.

TERM	BACK PANEL PIN NO.	SIGNAL LEVEL
1 MODULSIN/	5A09	L
2 SEQUENCE	5A21	H
3 LIDCLSDSW	5A16	H
4 DCUSF	5A29	L
5 BRAKE/		H
6 HDEXT/	5A11	H
7 START	3B19	H

THE FOLLOWING CONDITIONS MUST BE MET TO INITIATE PACK SEQUENCE DOWN.

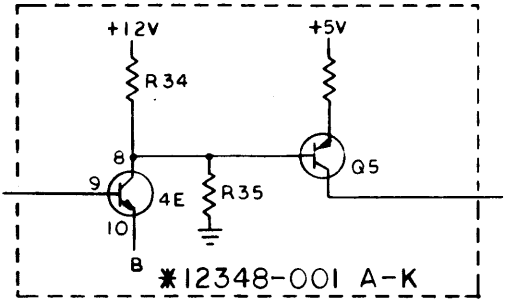
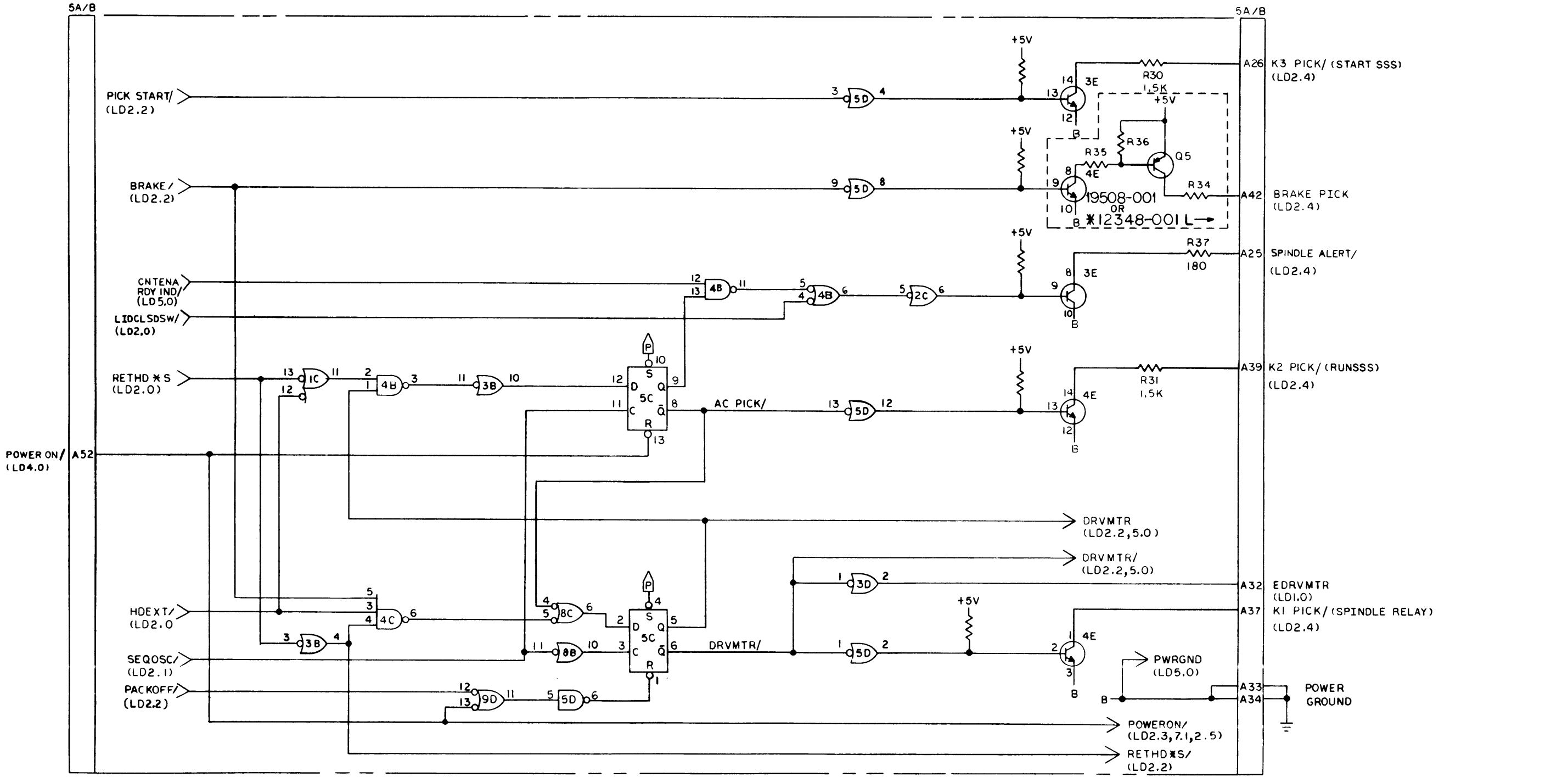
TERM	BACK PANEL PIN NO.	SIGNAL LEVEL
1 START	3B19	L
2 HDEXT/	5A11	H
3 RETHDS		H

Century Data
ANAHEIM, CALIFORNIA

PACK ON AND SEQUENCE LOGIC (LD2.2)

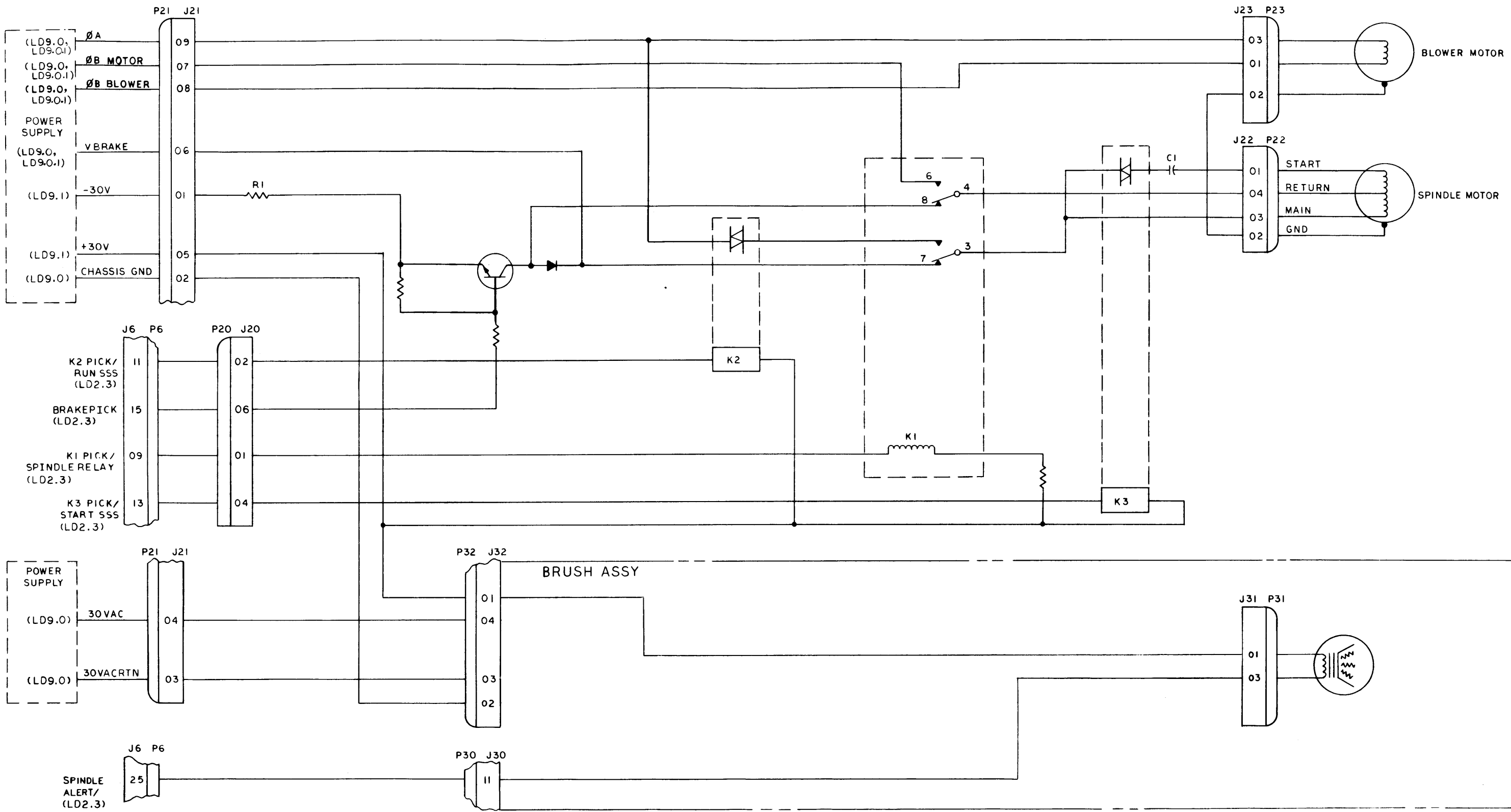
DRAWN	C. Denny	10-18-74	SIZE	D	REV	V
CHECK				13442-001		
APPD						
SCALE:				SHEET 11 OF		

REV. V
DWG. NO. 13442-001



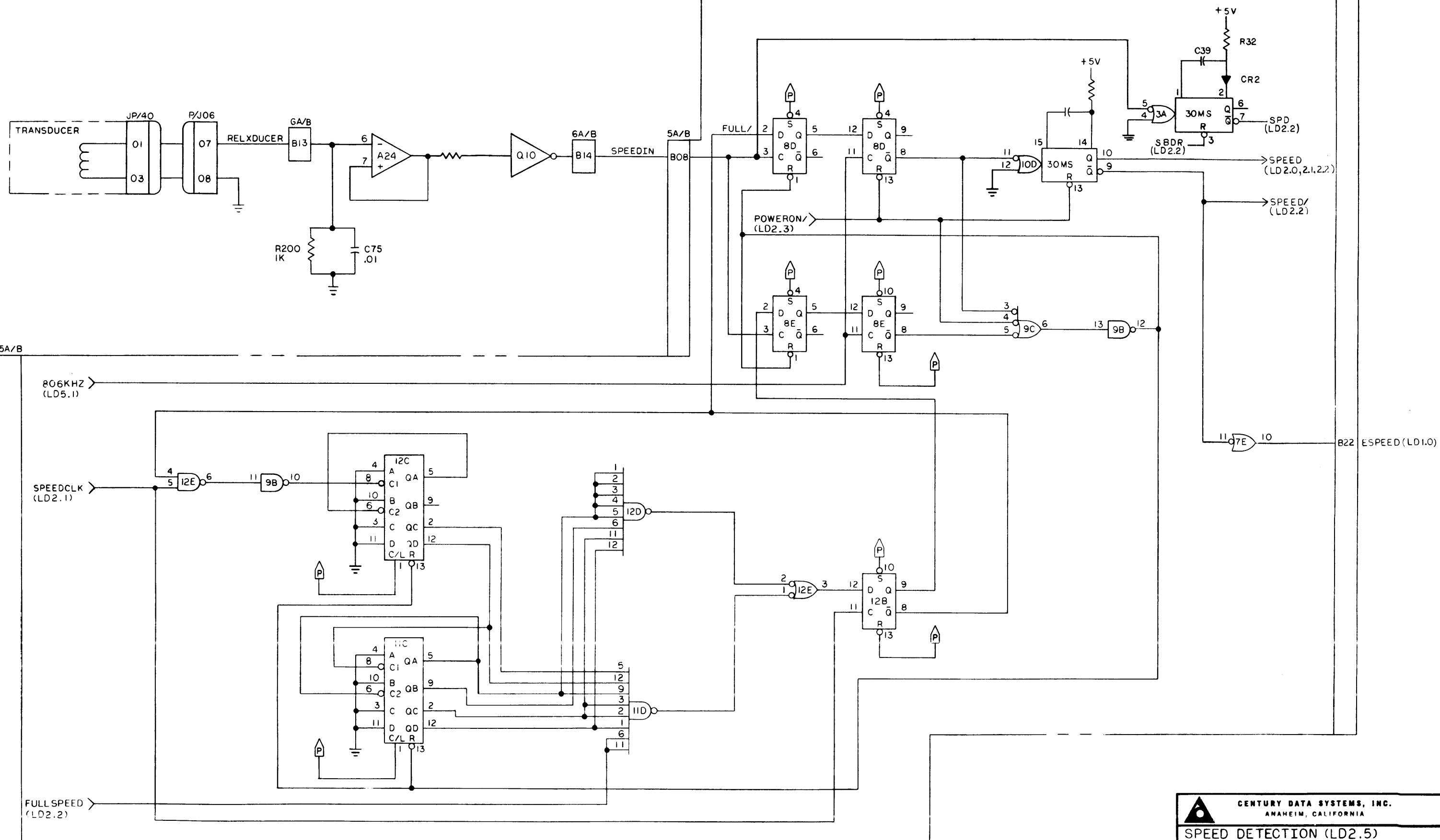
CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA				
SEQUENCE LOGIC AND RELAY DRIVERS (LD2.3)				
DRAWN	<i>C. Perry</i>	12-16-79	SIZE	REV
CHECK			13442-001	P
APPD				
SCALE:			SHEET 12 OF	

REV. 13442-001 P



13442-001 P. REV

CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA				
A C CONTROL AND DISTRIBUTION (LD2.4)				
DRAWN	12/11/76	SIZE	13442-001	REV
CHECK				P
APPD				
SCALE:			SHEET 13 OF	



5A/B

5A/B

806KHZ (LD5.1)

SPEEDCLK (LD2.1)

FULL SPEED (LD2.2)

B22 ESPEED (LD1.0)

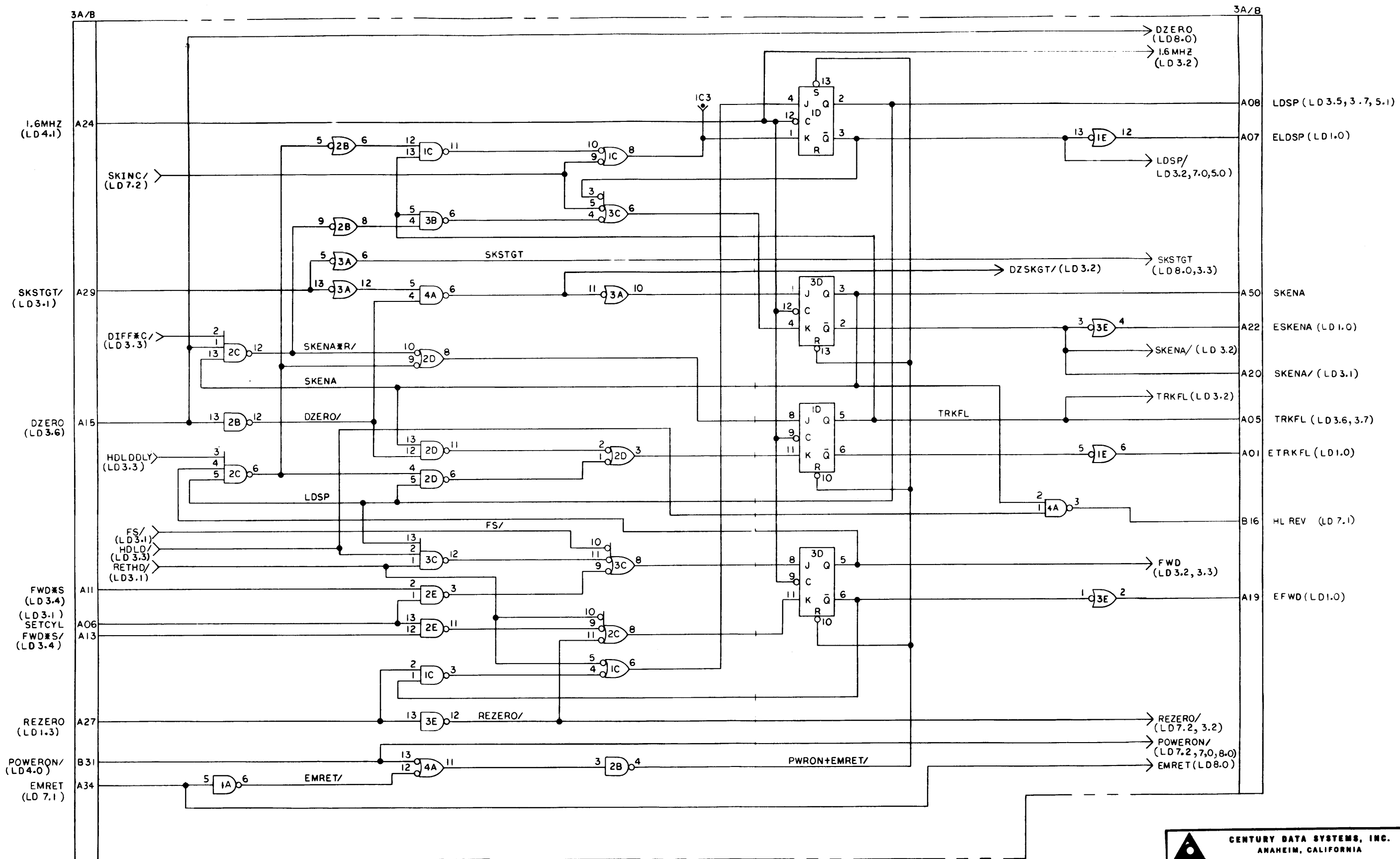
CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

SPEED DETECTION (LD2.5)

DRAWN	C. Ramirez	11-12-79	SIZE	D	REV	V
CHECK					13442-001	
APPD						

SCALE: _____ SHEET 14 OF _____

REV V
13442-001

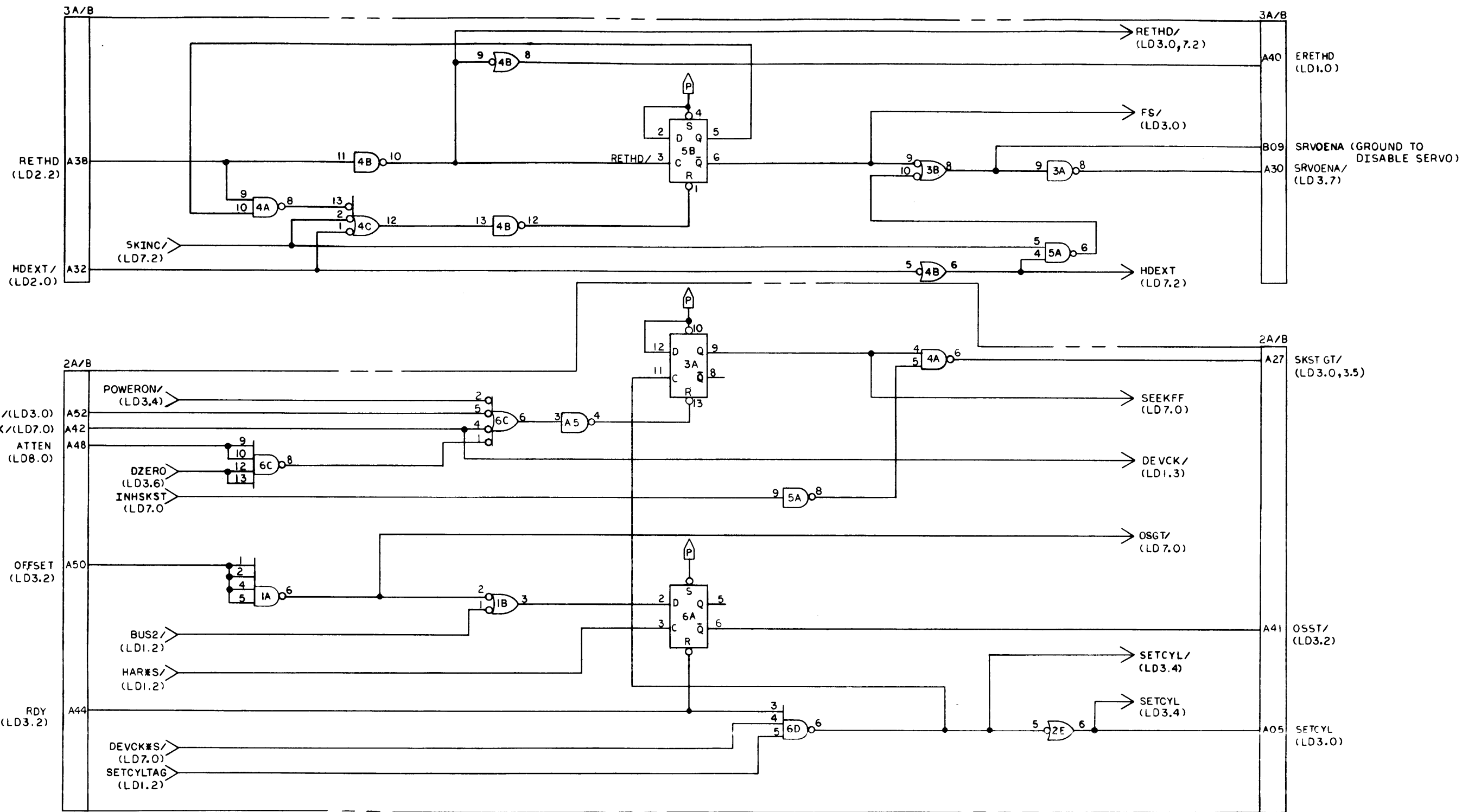


CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

SERVO CONTROL LD3.0

DRAWN	J. Salisbury	SIZE	D	REV	T
CHECK			13442-001		
APPD					
SCALE:			SHEET 15 OF		

13442-001



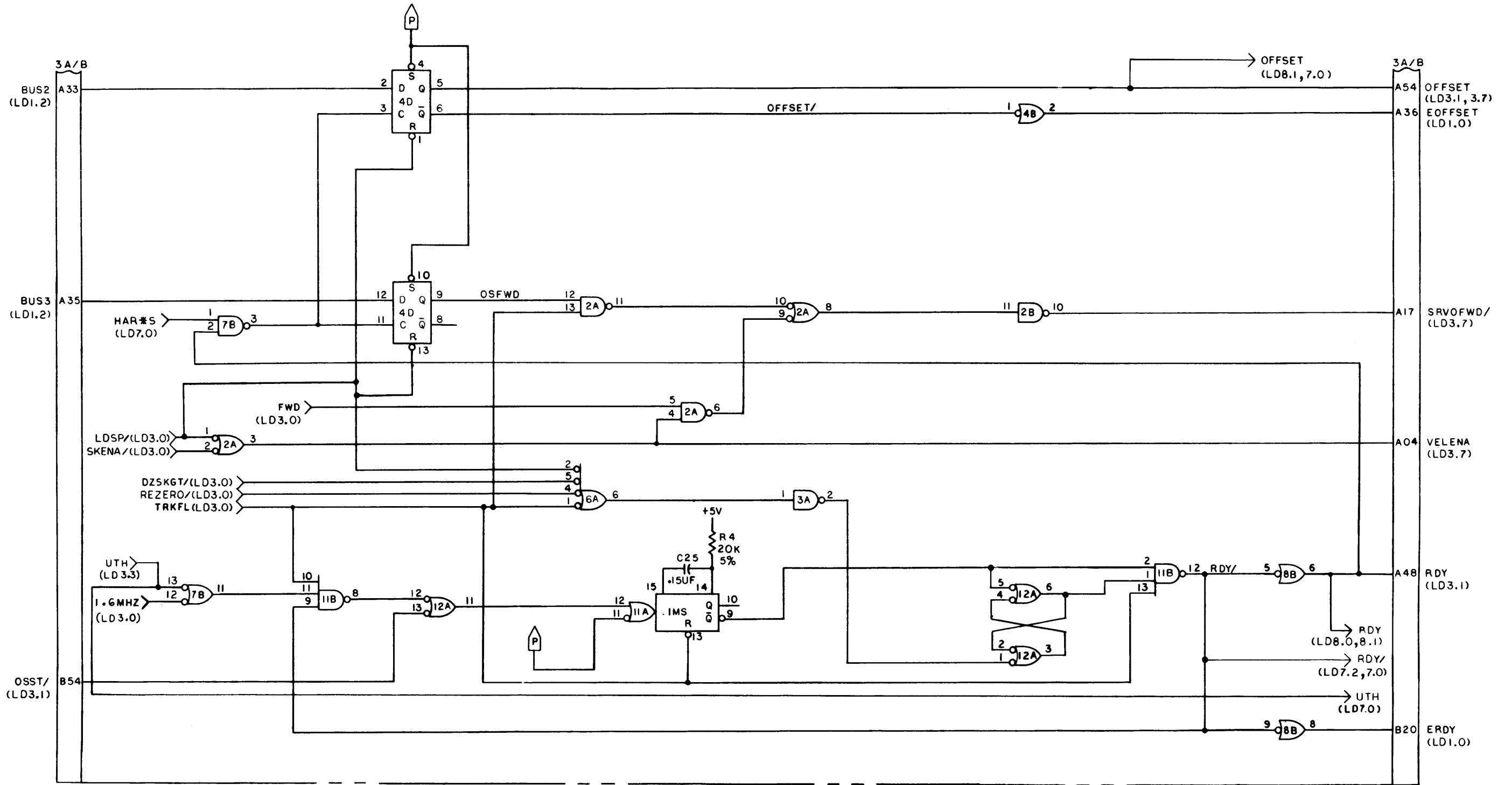
Century Data		ANAHEIM, CALIFORNIA	
SERVO CONTROL LOGIC		LD3.1	
DRAWN	<i>L. D. ...</i>	SIZE	D
CHECK		REV	G
APPD		13442-001	
SCALE: —		SHEET 16 OF	

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Century Data ANALOG, CALIFORNIA	
SERVO CONTROL AND READY LD3.2	
DRAWN: C. Drury	DATE: 10-22-74
CHECK:	SIZE: D
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SHEET 17 OF	

13442-001 REV. F

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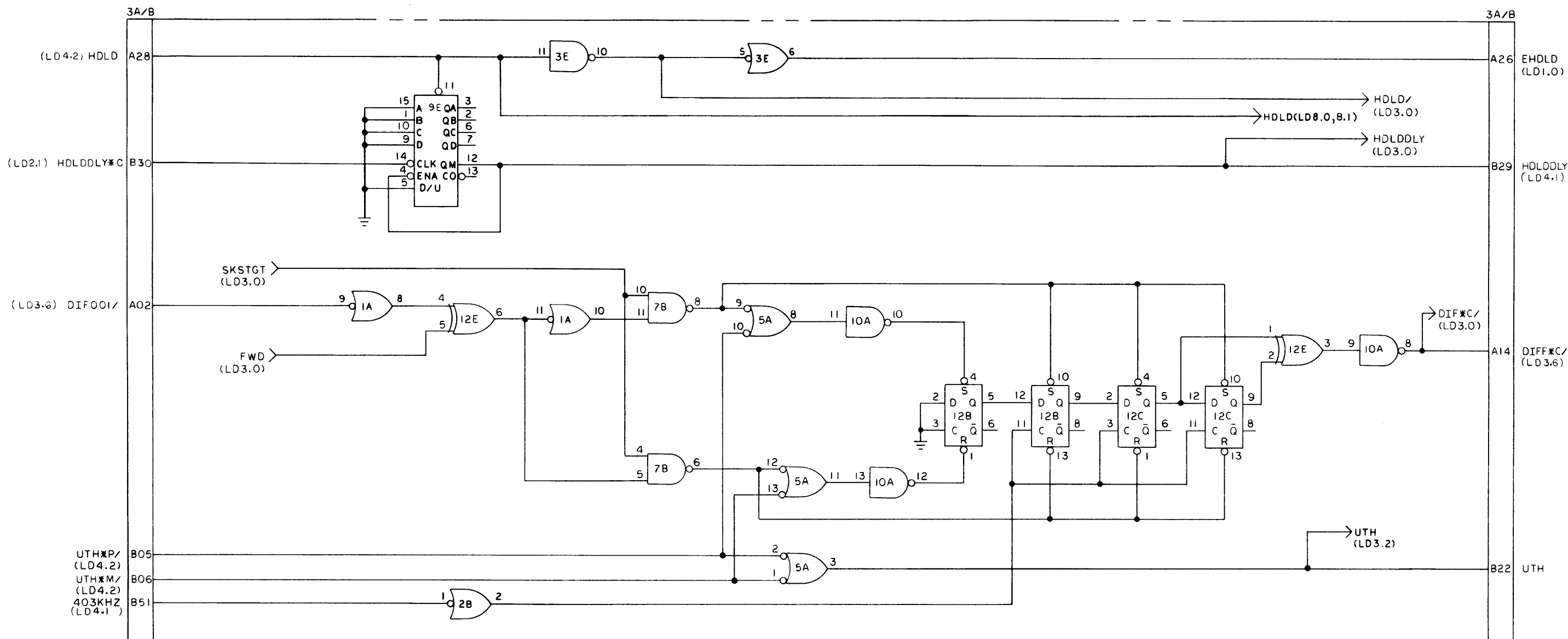
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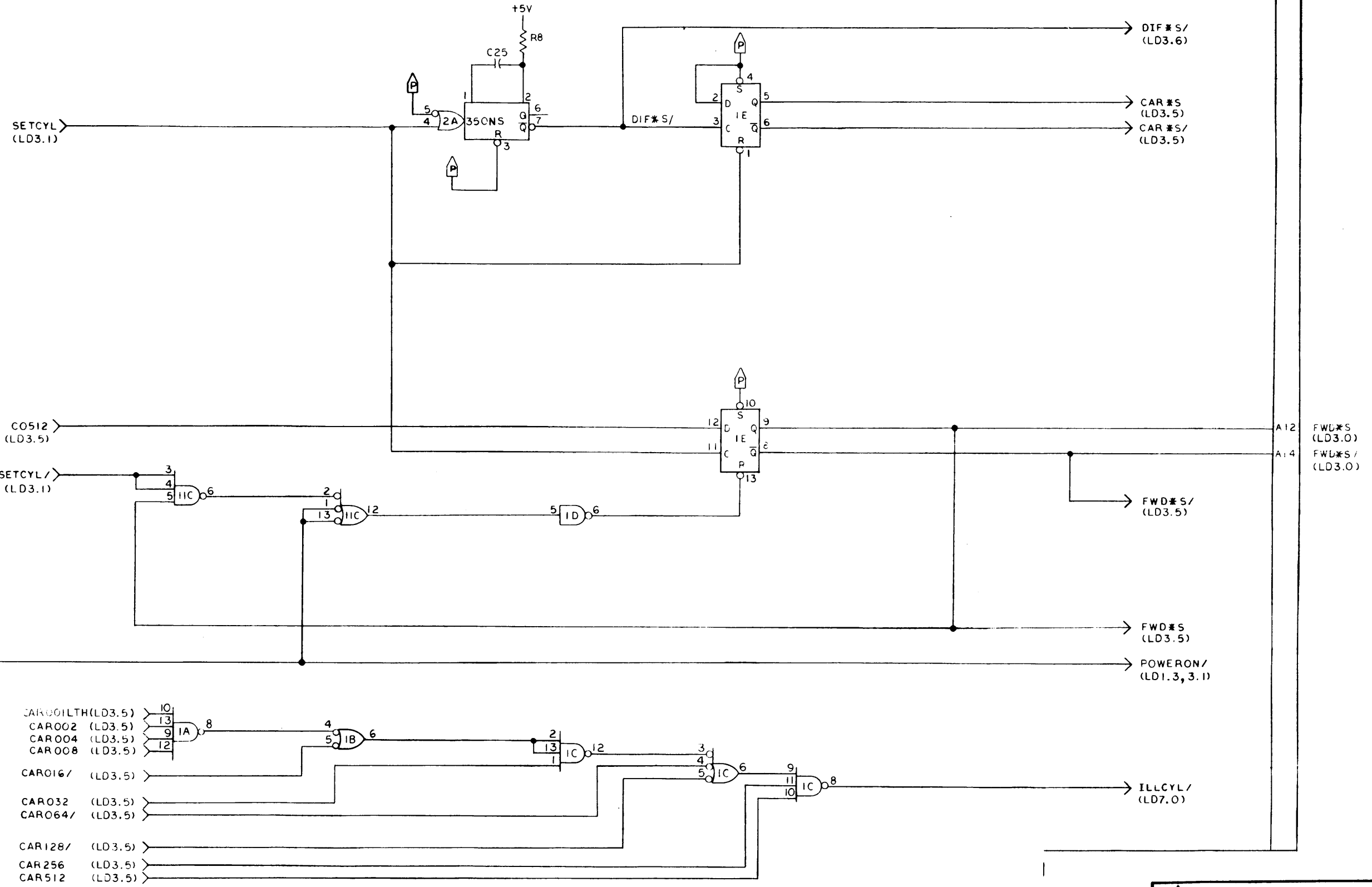


Century Data				ANAHEIM, CALIFORNIA	
HDLDDLY, DIFF, CLOCK AND UTH				LD3.3	
DRAWN	S. Salzman	3-11-75	SIZE	D	13442 001
CHECK					
APPD					
SCALE:				SHEET 18 OF	

DWG. NO. 13442-001 REV. T

2A/B

2A/B



POWERON/B31 (LD4.0)

- CAR001/TH (LD3.5)
- CAR002 (LD3.5)
- CAR004 (LD3.5)
- CAR008 (LD3.5)
- CAR016/ (LD3.5)
- CAR032 (LD3.5)
- CAR064/ (LD3.5)
- CAR128/ (LD3.5)
- CAR256 (LD3.5)
- CAR512 (LD3.5)

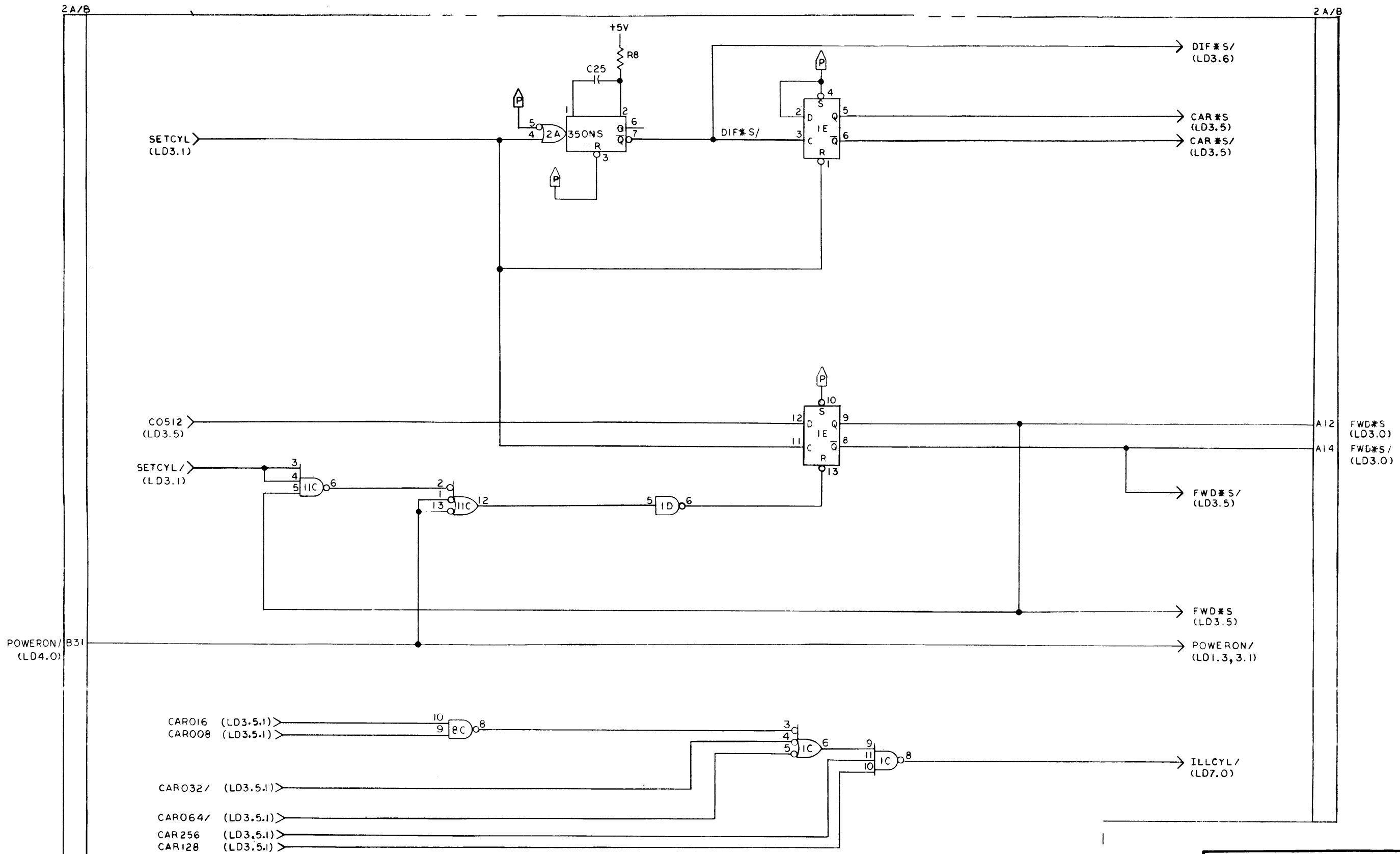
CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA


**SUBTRACTOR CONTROL AND
ILLCYL LOGIC-T50,T80 LD3.4.0**

DRAWN	DATE	SIZE	13442-001	REV	
CHECK		D		F	
APPD					

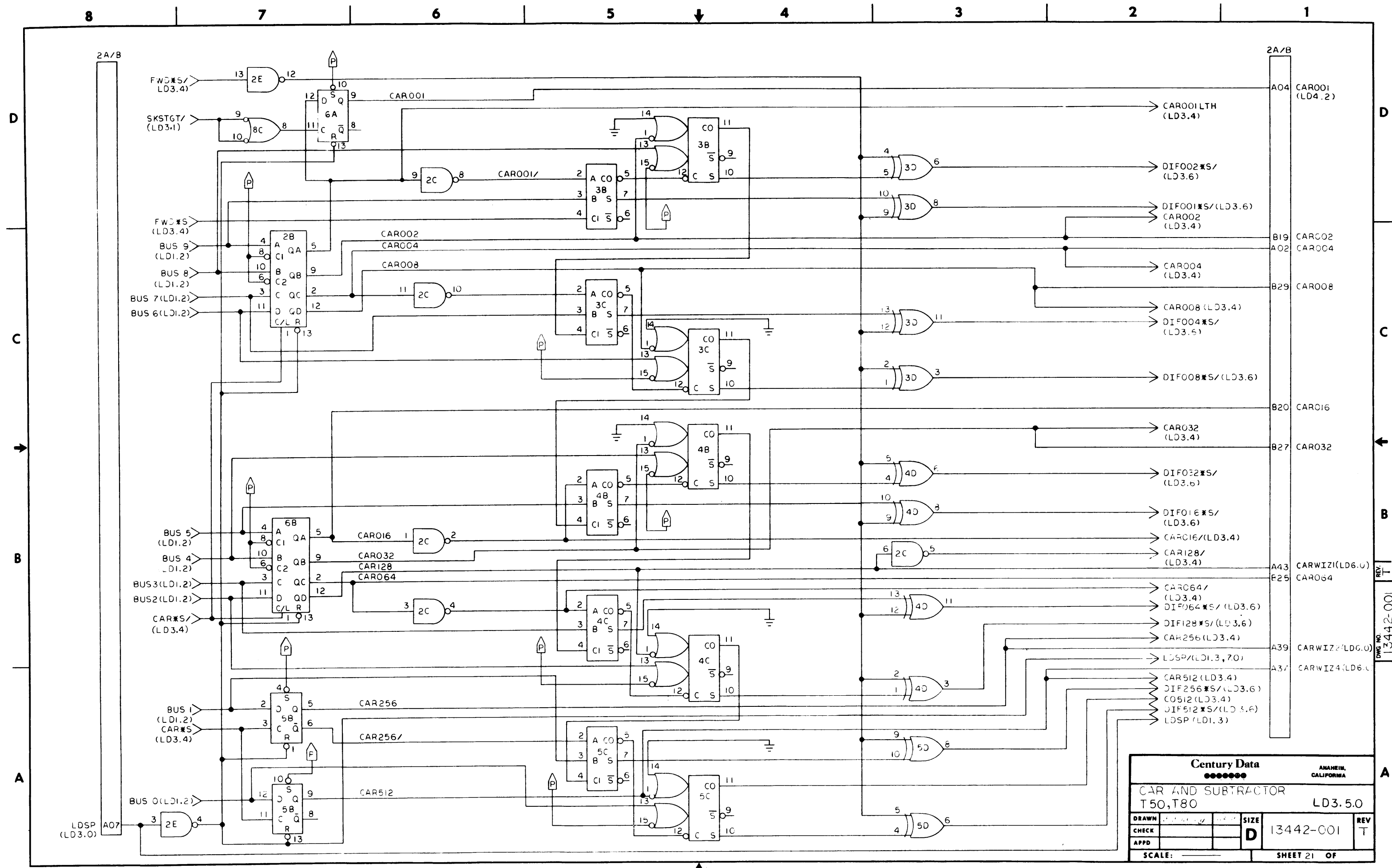
SCALE: _____ SHEET 19 OF _____

F 13442-001



 CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SUBTRACTOR CONTROL AND ILLCYL LOGIC T25 LD3.4.1			
DRAWN	<i>E. Dewey</i>	SIZE	
CHECK		13442-001	REV F
APPD			
SCALE:		SHEET 20 OF	

F 13442-001



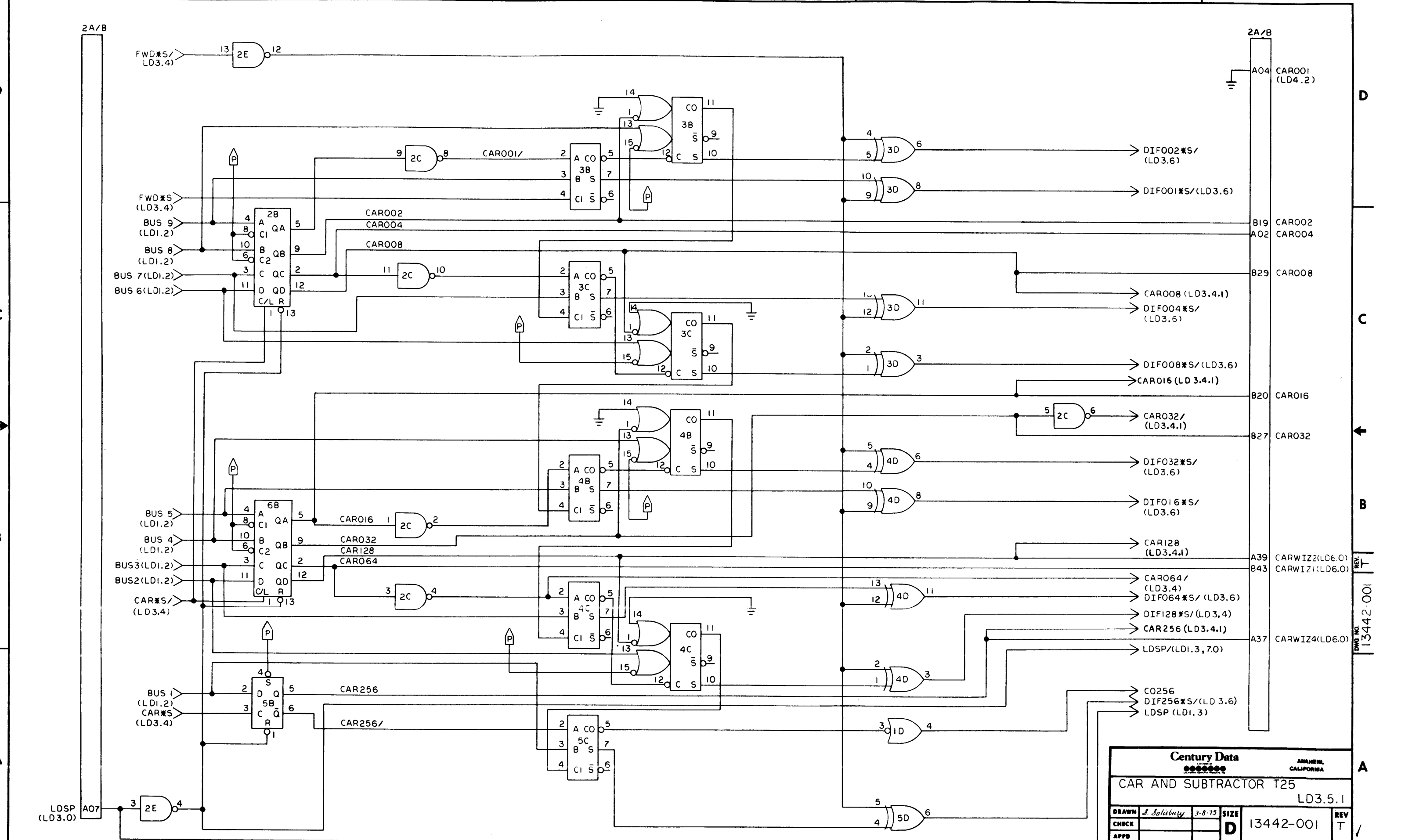
Century Data
 ANAHEIM, CALIFORNIA

CAR AND SUBTRACTOR
 T50, T80 LD3.5.0

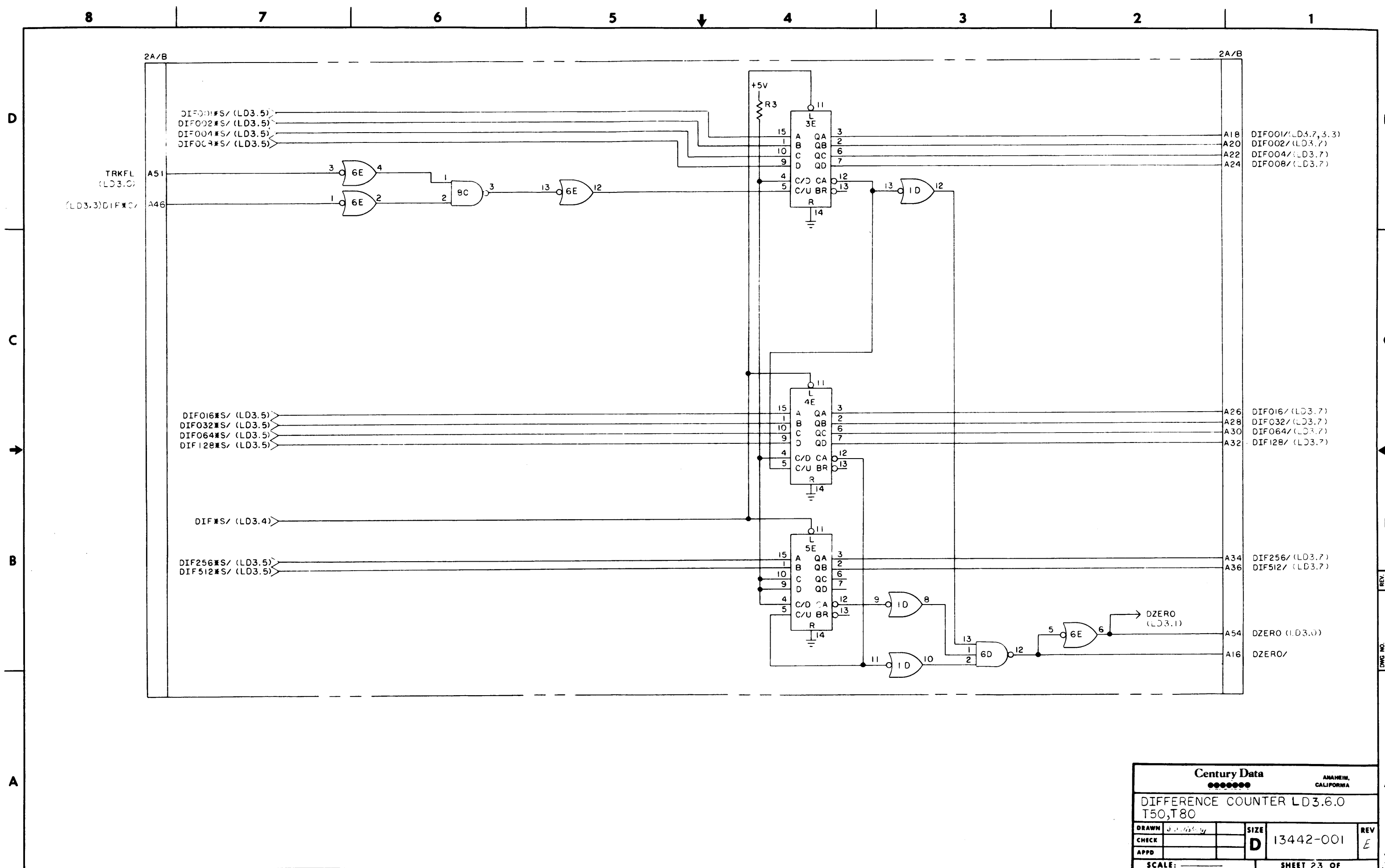
DRAWN	DATE	SIZE	REV
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APPD		13442-001	
SCALE:		SHEET 21 OF	

F4800-141 (5/73)

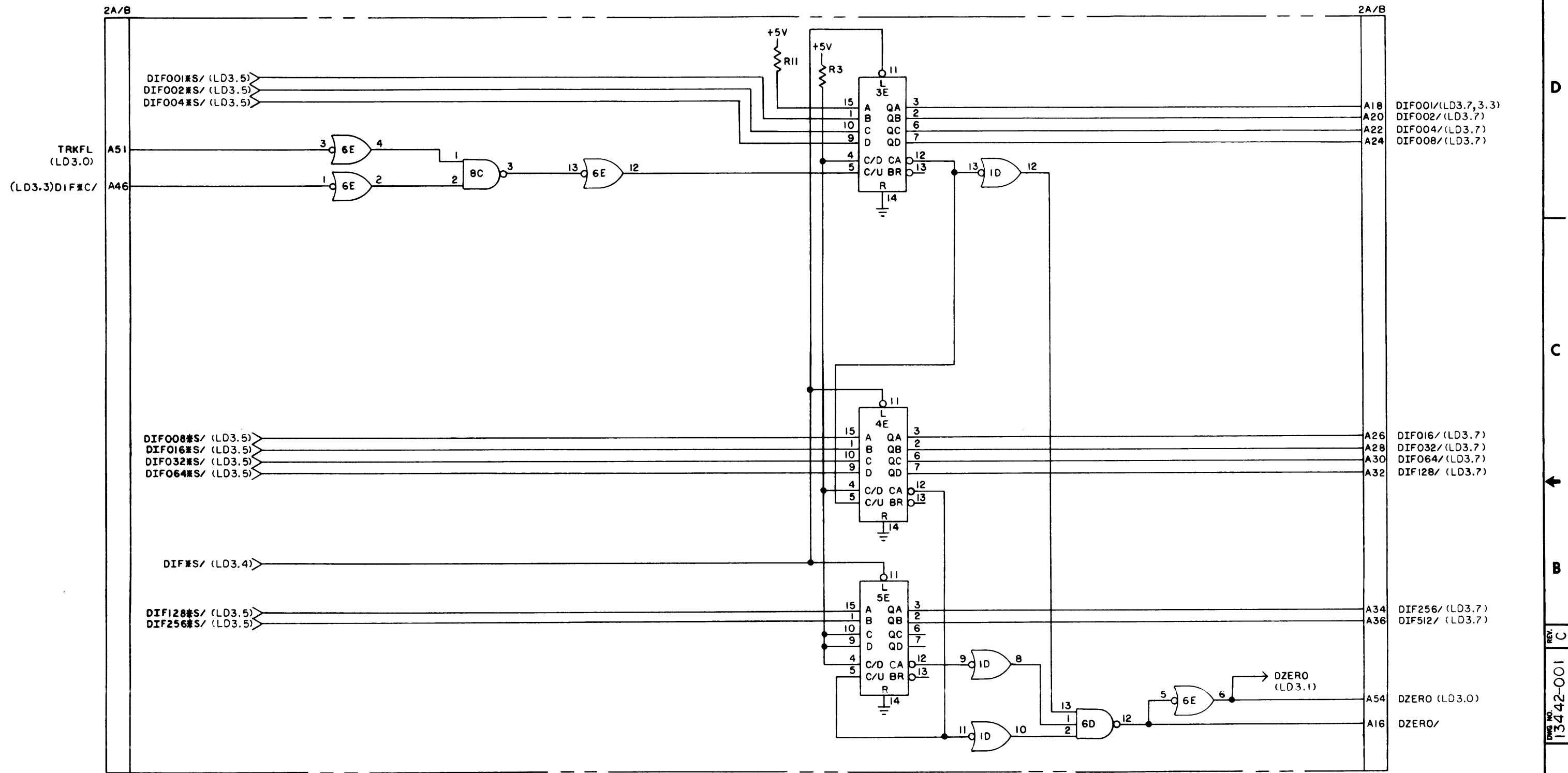
Dwg No. 13442-001
 REV. T



Century Data		ANAHEIM, CALIFORNIA	
CAR AND SUBTRACTOR T25			
LD3.5.1			
DRAWN	<i>S. Salisbury</i>	3-8-75	SIZE
CHECK			D
APPD			13442-001
SCALE:		SHEET 22 OF	



Century Data ANALOG DIVISION ANAHEIM, CALIFORNIA		A		
DIFFERENCE COUNTER LD3.6.0 T50,T80				
DRAWN	J. J. [unclear]	SIZE	D	
CHECK		13442-001		REV E
APPD				
SCALE:		SHEET 23 OF		



Century Data 000000		ANAHEIM, CALIFORNIA	
DIFFERENCE COUNTER T25 (LD3.6.1)			
DRAWN	<i>J. Salisbury</i>	SIZE	D
CHECK		13442-001	REV C
APPD		SCALE: _____ SHEET 24 OF	

13442-001 REV. C
 Dwg. No.

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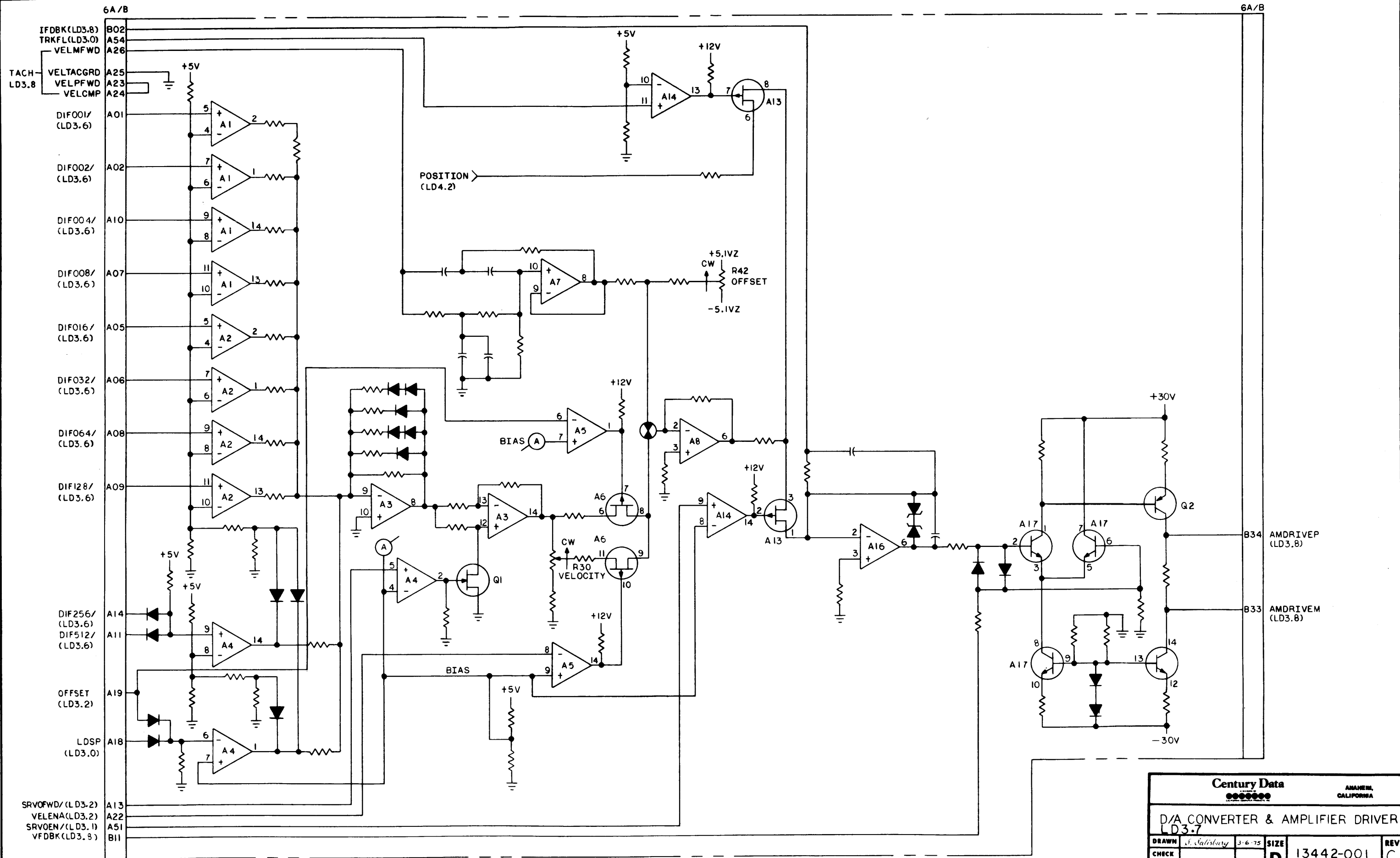
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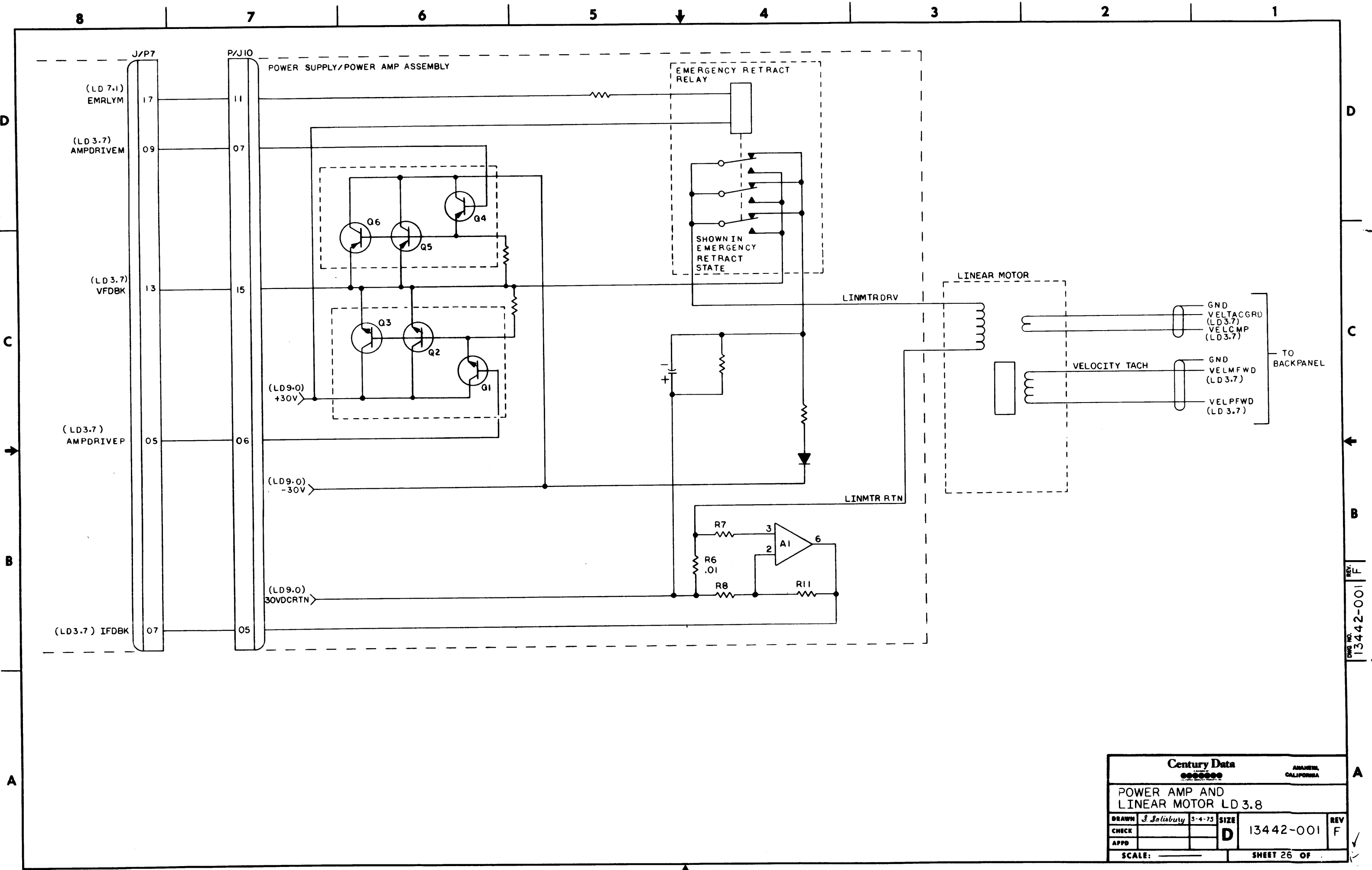
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Century Data		ANAHEIM, CALIFORNIA	
D/A CONVERTER & AMPLIFIER DRIVER LD3.7			
DRAWN	<i>S. Salisbury</i>	DATE	3-6-75
CHECK		SIZE	D
APPD		REV	C
SCALE:		SHEET 25 OF	

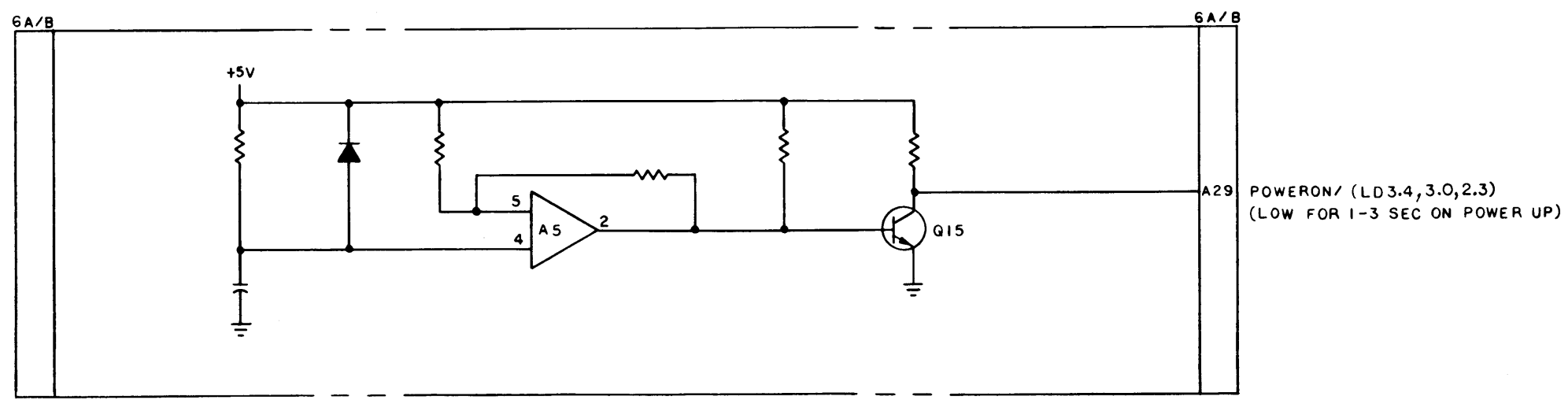
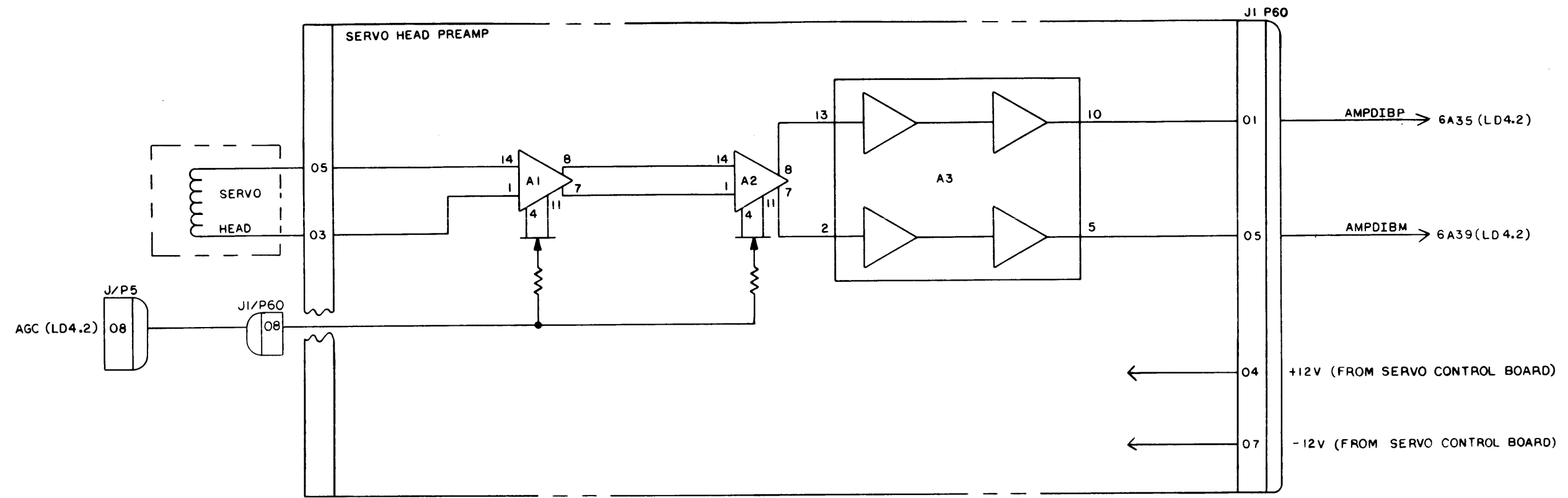


Century Data		<small>ANAMEN, CALIFORNIA</small>	
POWER AMP AND LINEAR MOTOR LD 3.8			
<small>DRAWN</small>	<i>J. Salisbury</i>	<small>3-4-75</small>	<small>SIZE</small>
<small>CHECK</small>			D
<small>APPD</small>			
<small>SCALE:</small>		<small>SHEET 26 OF</small>	

REV. NO. 13442-001 F

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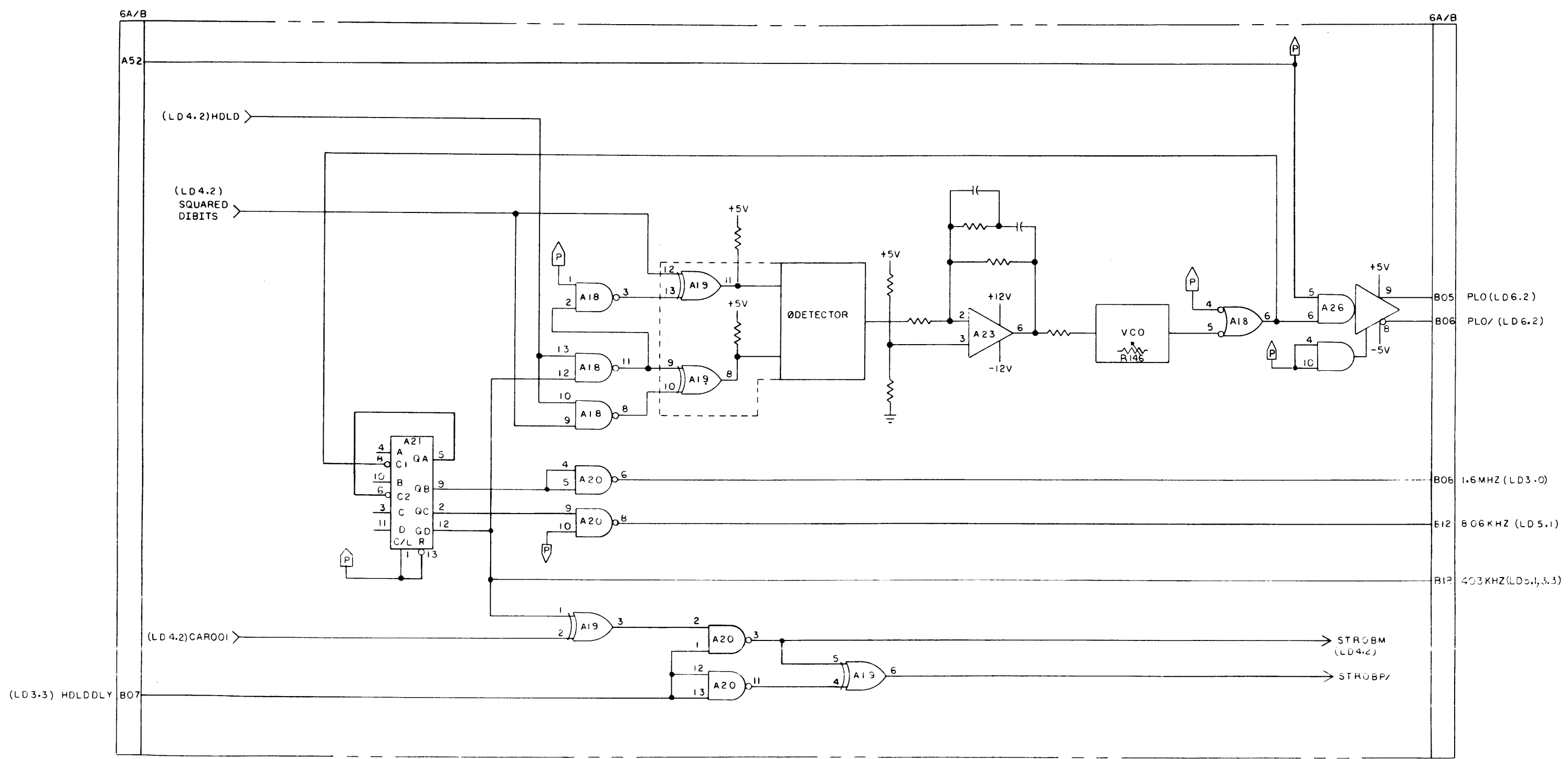
Century Data		<small>ANAHIM, CALIFORNIA</small>	
SERVO HEAD PREAMP AND POWER ON/ LD 4.0			
<small>DRAWN</small>	<i>S. Satisfsky</i>	<small>3-10-75</small>	<small>SIZE</small>
<small>CHECK</small>			D
<small>APPD</small>			13442-001
<small>SCALE:</small>		<small>SHEET 27 OF</small>	

REV. T
 13442-001
 Dwg. No.

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(LD3.3) HOLDDLY B07

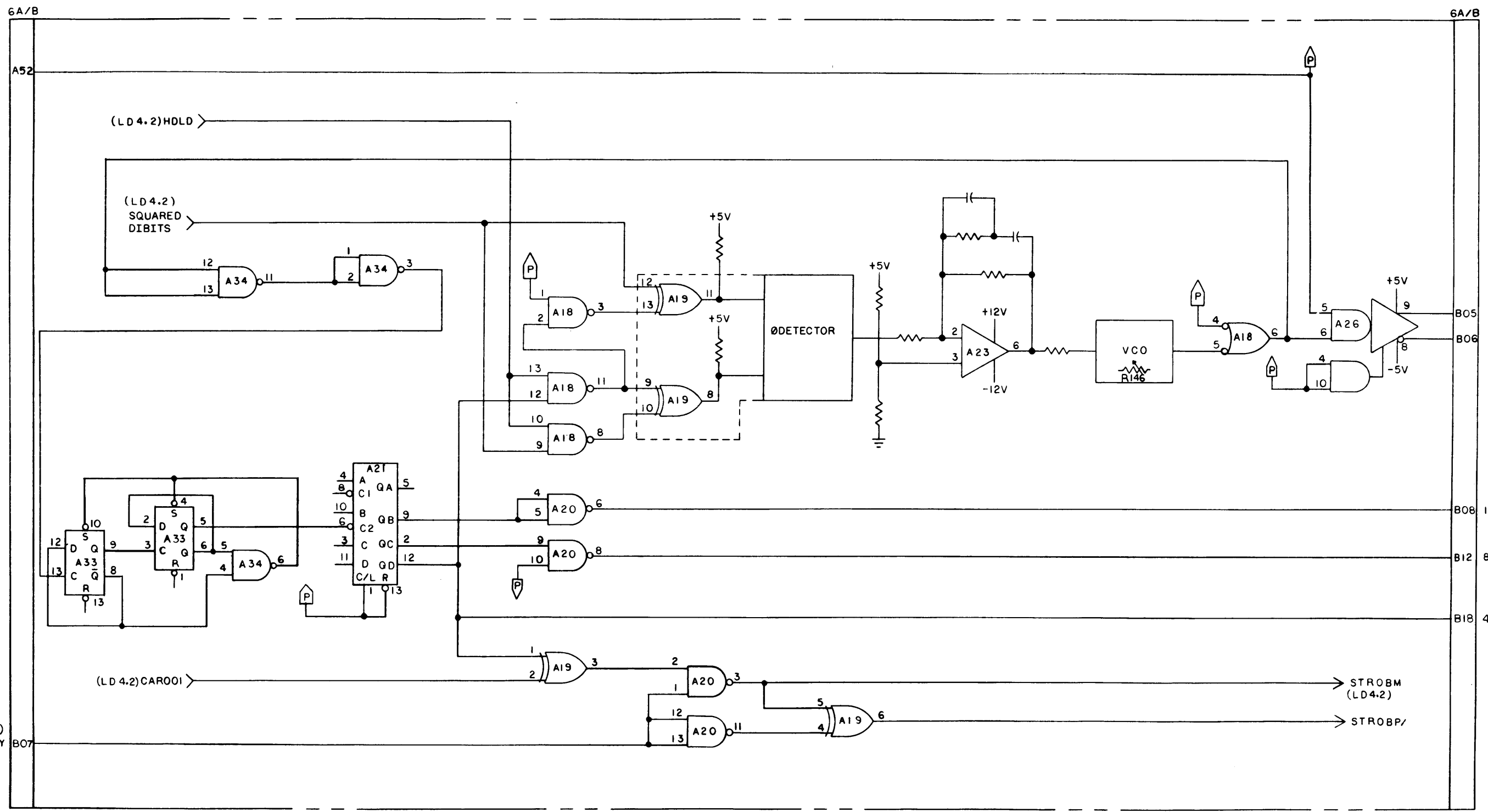
(LD4.2)HOLD

(LD4.2)SQUARED DIBITS

(LD4.2)CAROOI

Century Data ●●●●●●		ANAHEIM, CALIFORNIA	
PLC T25,T50			LD4.1
DRAWN	2-27-75	SIZE	REV
CHECK		D	134 42-001 T
APPD			
SCALE:		SHEET 28 OF	

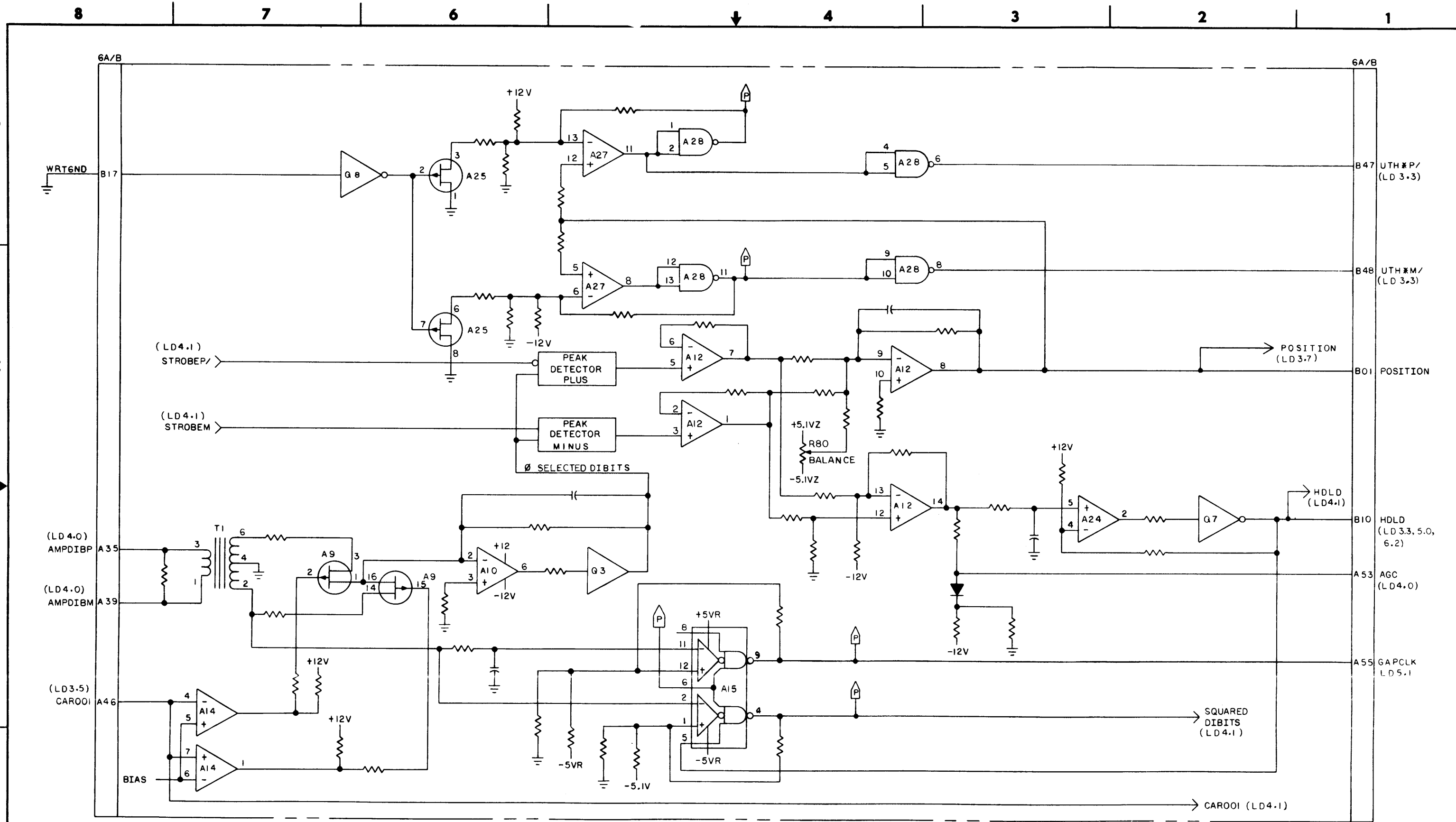
DWG NO. 13442-001 REV. T



B05 PLO (LD6.2)
 B06 PLO/ (LD6.2)
 B08 1.6MHZ (LD3.0)
 B12 806KHZ (LD5.1)
 B18 403KHZ(LD5.1,3.3)

Century Data		ANN ARBOR, MICHIGAN	
PLO T80		LD4.1.1	
DRAWN	L. Deary	11-25-75	SIZE D
CHECK			134 42-001
APPD			REV T
SCALE:		SHEET 29 OF	

DWG. NO. 13442-001
 REV. T



Century Data ANALOG DIVISION ANAHEIM, CALIFORNIA	
POSITION, UTH * HDLD, AGC, GAPCLK LD4.2	
DRAWN <i>S. Bolisbury</i> 2-28-75	SIZE D 13442-001
CHECK	REV T
APPD	SCALE: _____ SHEET 30 OF _____

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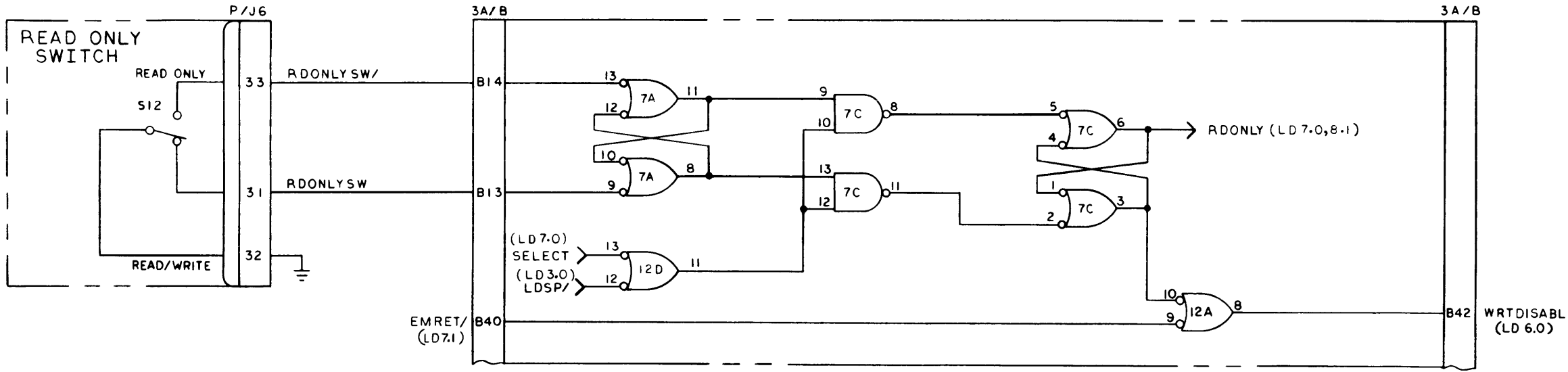
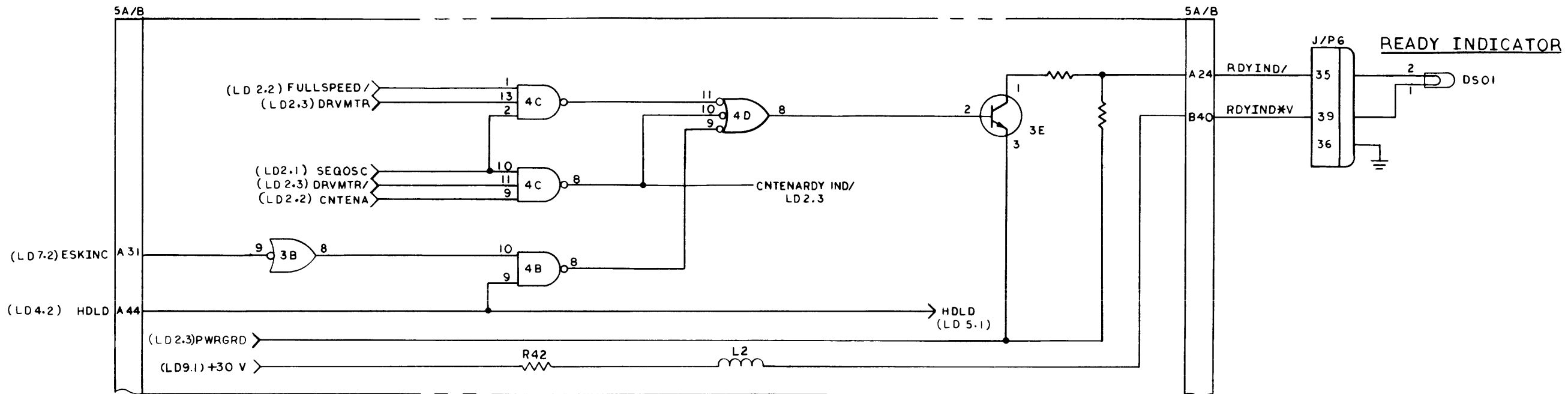
C

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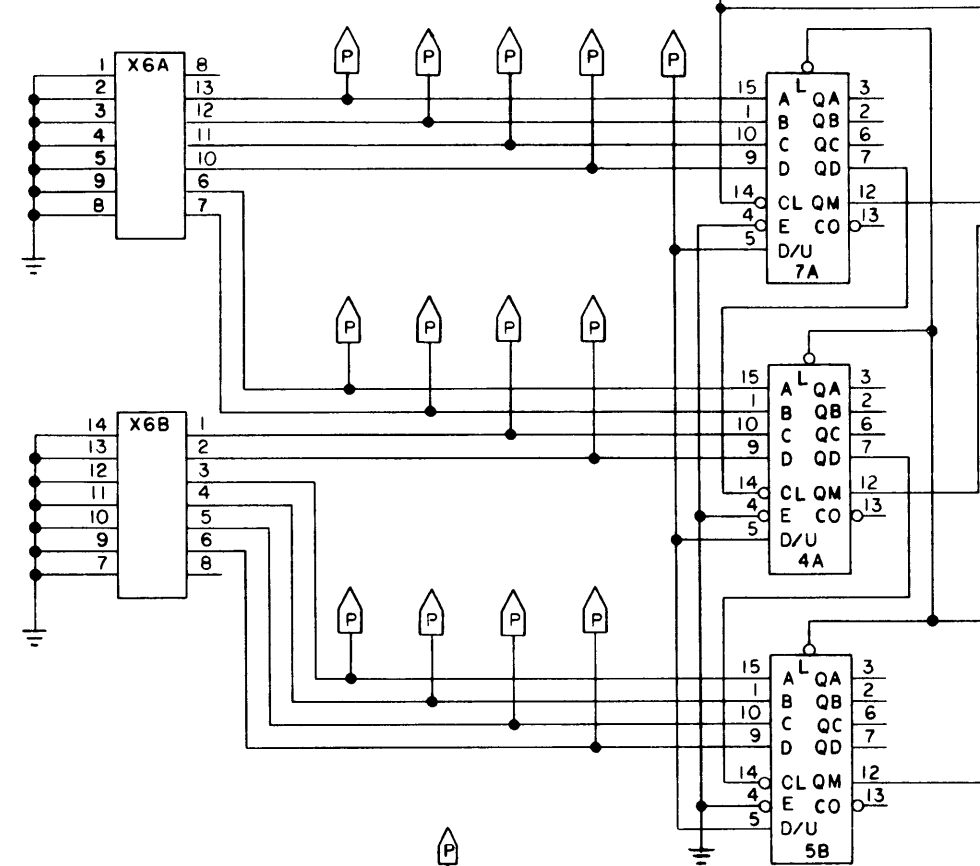
REV T
13442-001

Century Data AMAHENL CALIFORNIA	
READY INDICATOR AND READ ONLY LD 5.0	
DRAWN <i>Z. Dewey</i> 2-21-75	SIZE D
CHECK	13442-001
APPD	REV T
SCALE:	SHEET 31 OF

(LD 4.1) 806KHZ

5A/B

5A/B



806KHZ (LD 2.5,2.1)

5A/B

B05 SECTOR/ (LD 8.1)

5A/B

B14 IDX (LD 8.1)

(LD 3.0) LDSP

A08

(LD 4.1) 403KHZ

B16

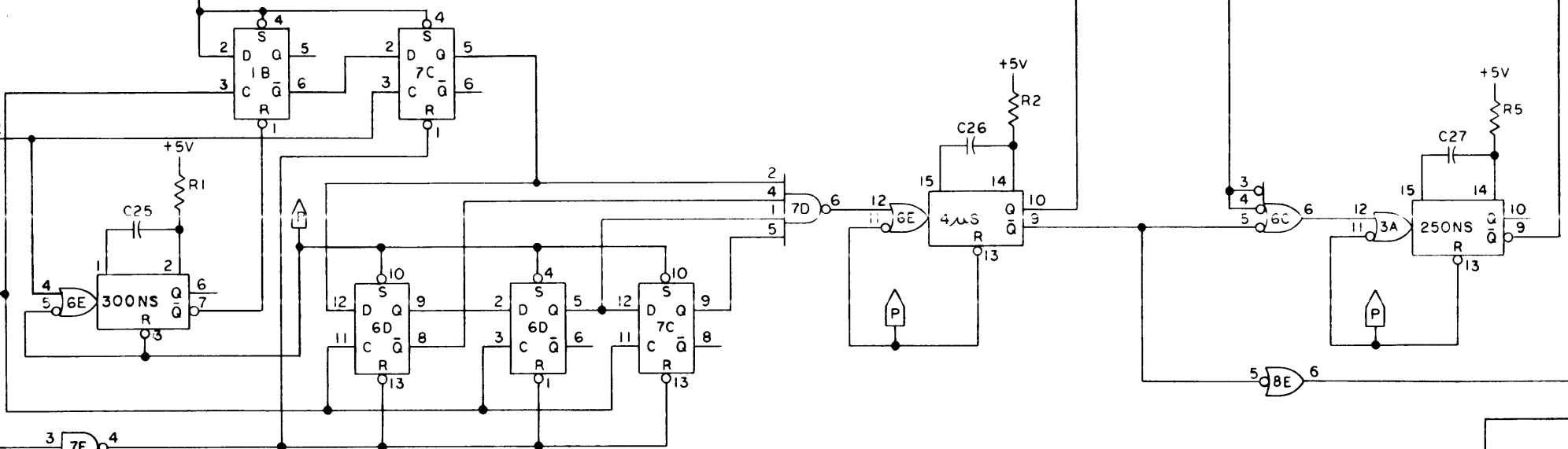
(LD 4.2) GAPCLK

B24

(LD 5.0) HDLU

B20

B20 EIDX (LD 1.0)

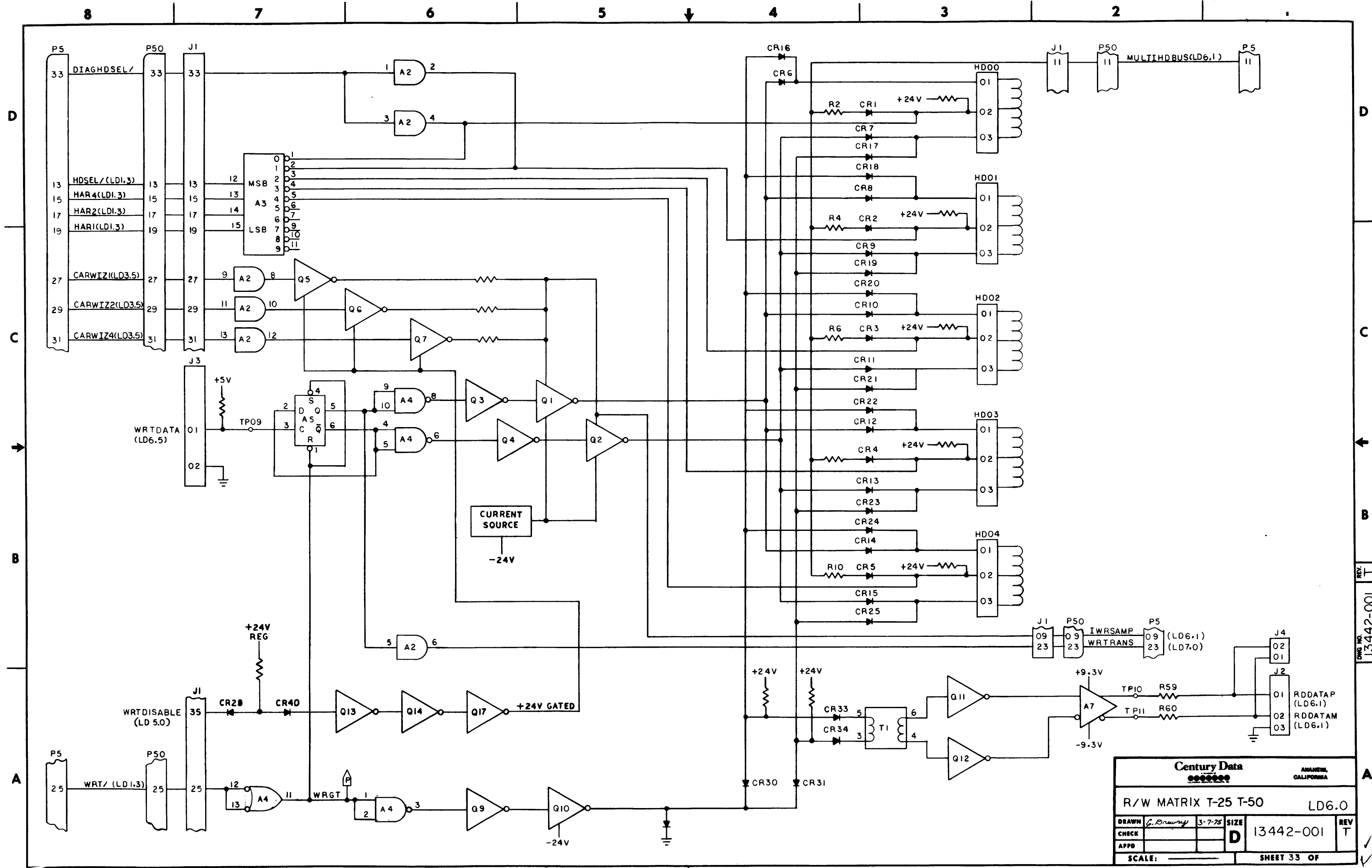


CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

INDEX AND SECTOR LD5.1

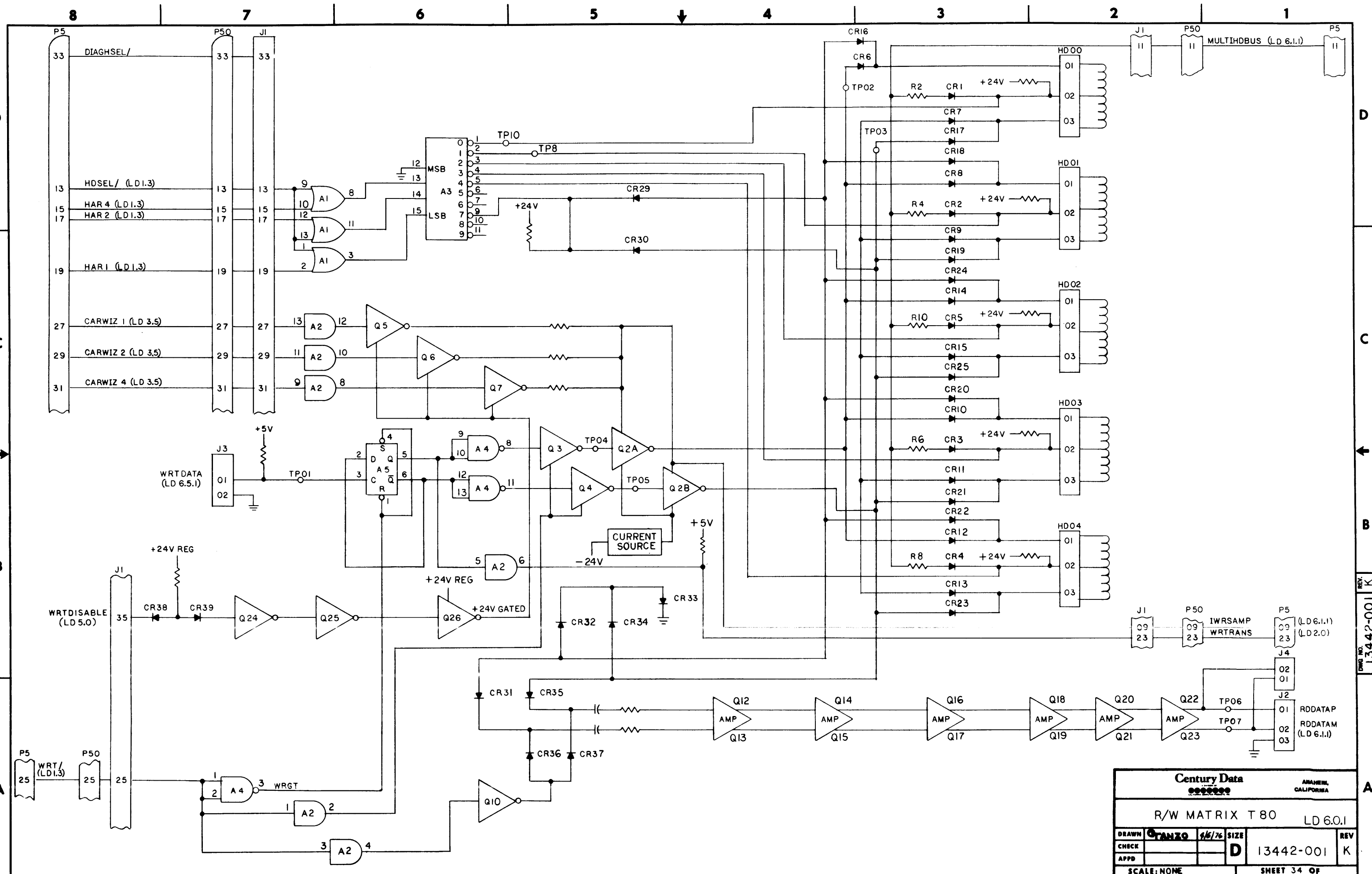
DRAWN	J. Salisbury	SIZE	13442-001	REV	C
CHECK					
APPD					
SCALE:			SHEET 32 OF		

13442-001 REV C



Century Data		ANAHEIM, CALIFORNIA	
R/W MATRIX T-25 T-50			LD6.0
DRAWN	<i>G. Drury</i>	3-7-75	SIZE
CHECK			D
APPD			13442-001
SCALE:			SHEET 33 OF

REV T
13442-001

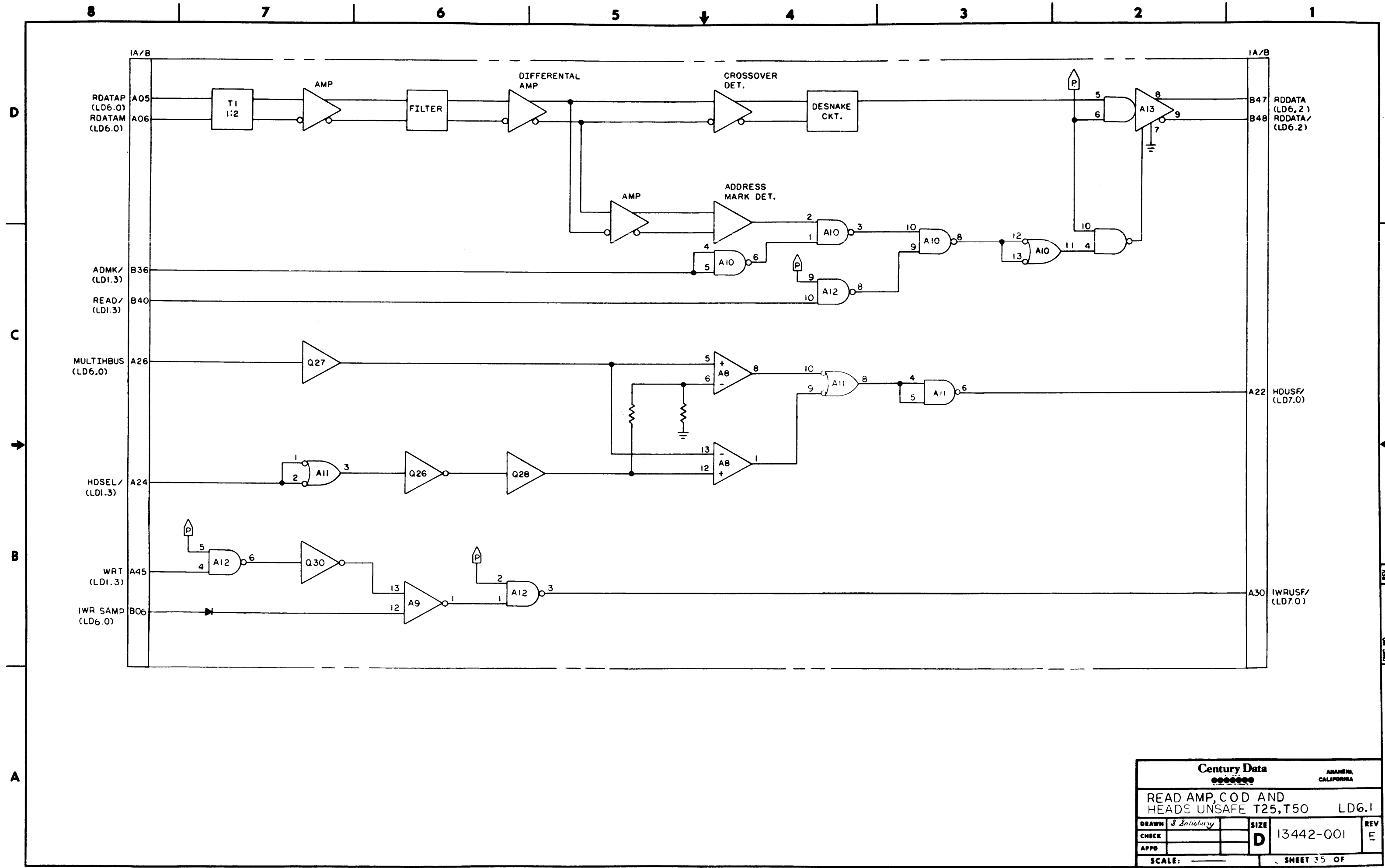


Century Data
ANAHEIM, CALIFORNIA

R/W MATRIX T80 LD 6.0.1

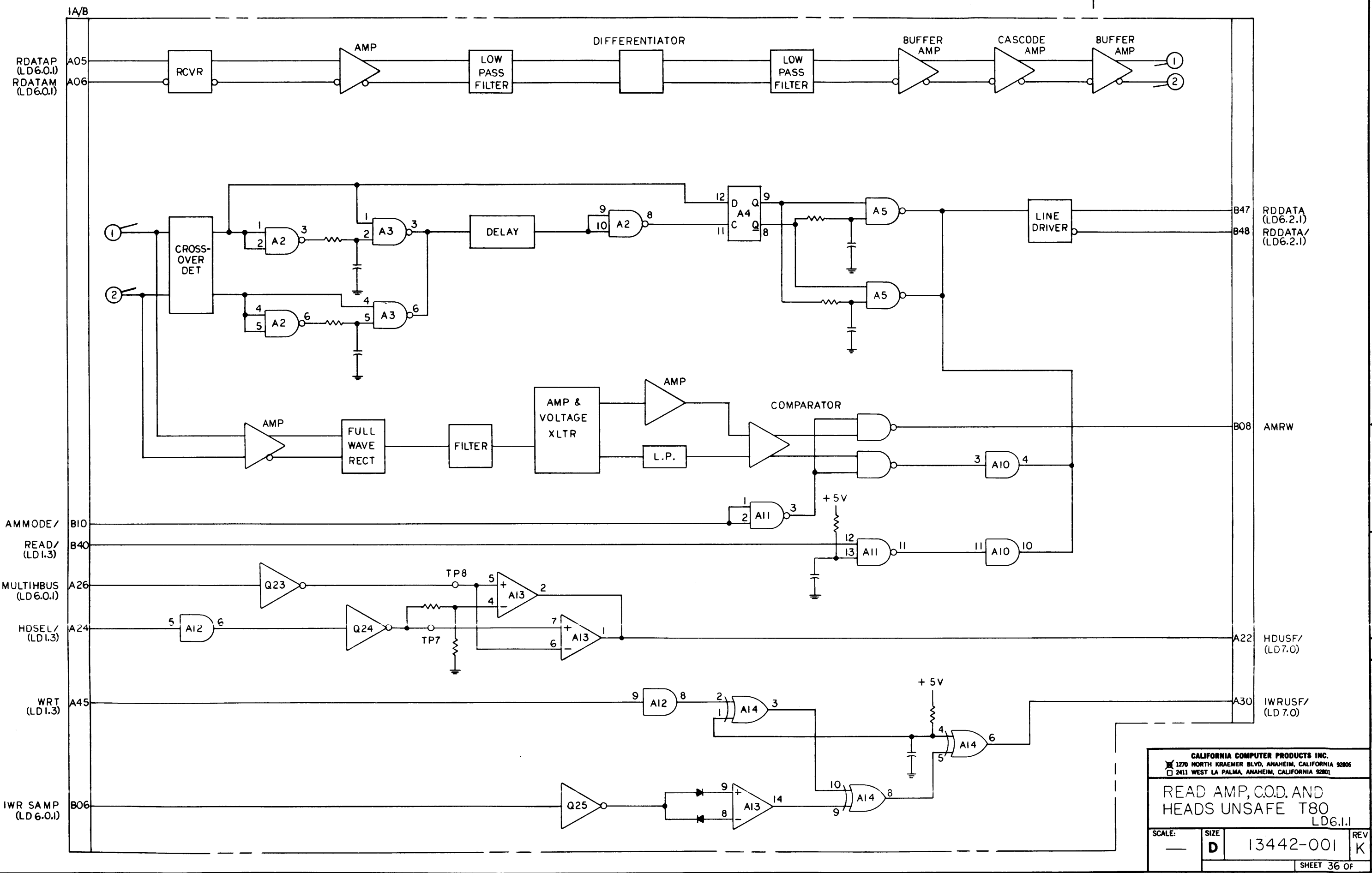
DRAWN	GRANZO	4/5/76	SIZE	REV
CHECK			D	
APPD			13442-001	K
SCALE: NONE			SHEET 34 OF	

REV. K
13442-001
Dwg. No.



Century Data		ANAHIM, CALIFORNIA	
●●●●●●			
READ AMP, COD AND HEADS UNSAFE T25, T50			LD6.1
DRAWN	<i>J. Salutory</i>	SIZE	D
CHECK		13442-001	
APPD		REV E	
SCALE: _____		SHEET 35 OF _____	

REVISIONS		
REV	ZONE	DESCRIPTION



CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

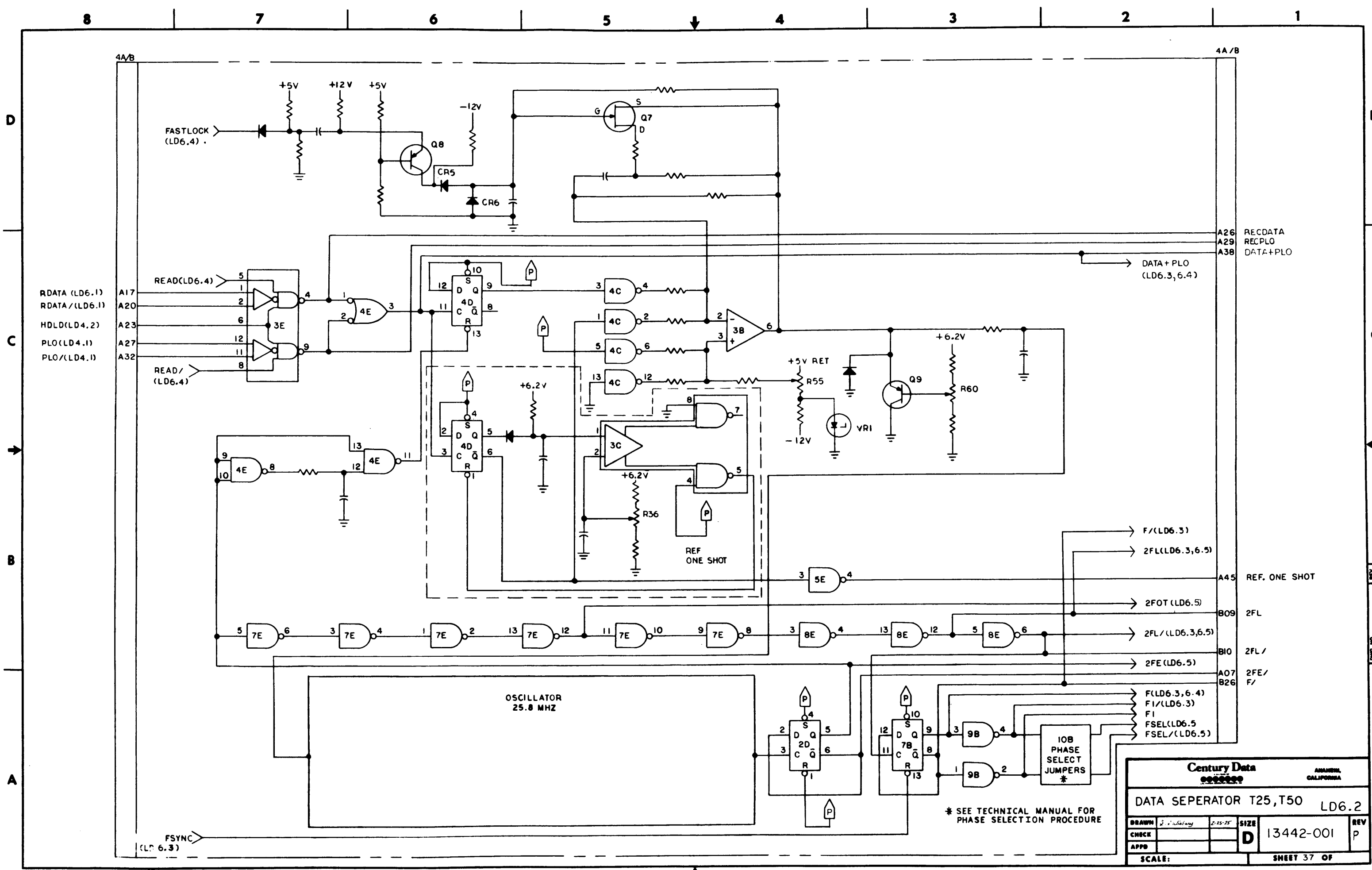
READ AMP, C.O.D. AND
 HEADS UNSAFE T80
 LD6.1.I

SCALE:	SIZE	REV
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13442-001

SHEET 36 OF

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Century Data
ANAHEIM, CALIFORNIA

DATA SEPARATOR T25, T50 LD6.2

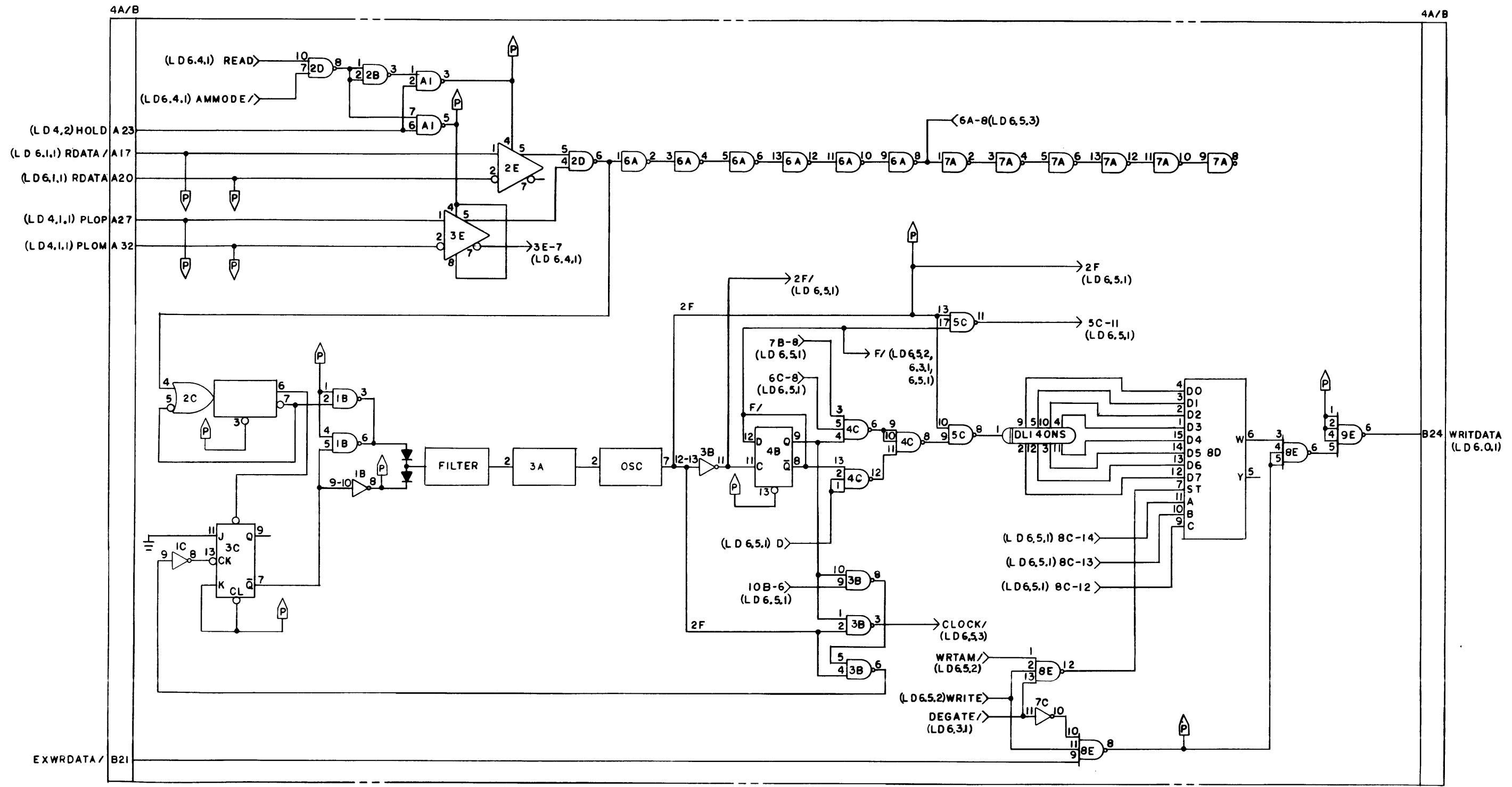
DRAWN	J. Voluntary	2-25-75	SIZE
CHECK			D
APPD			13442-001
SCALE:			REV
			P

SHEET 37 OF

* SEE TECHNICAL MANUAL FOR PHASE SELECTION PROCEDURE

13442-001 P

REVISIONS		
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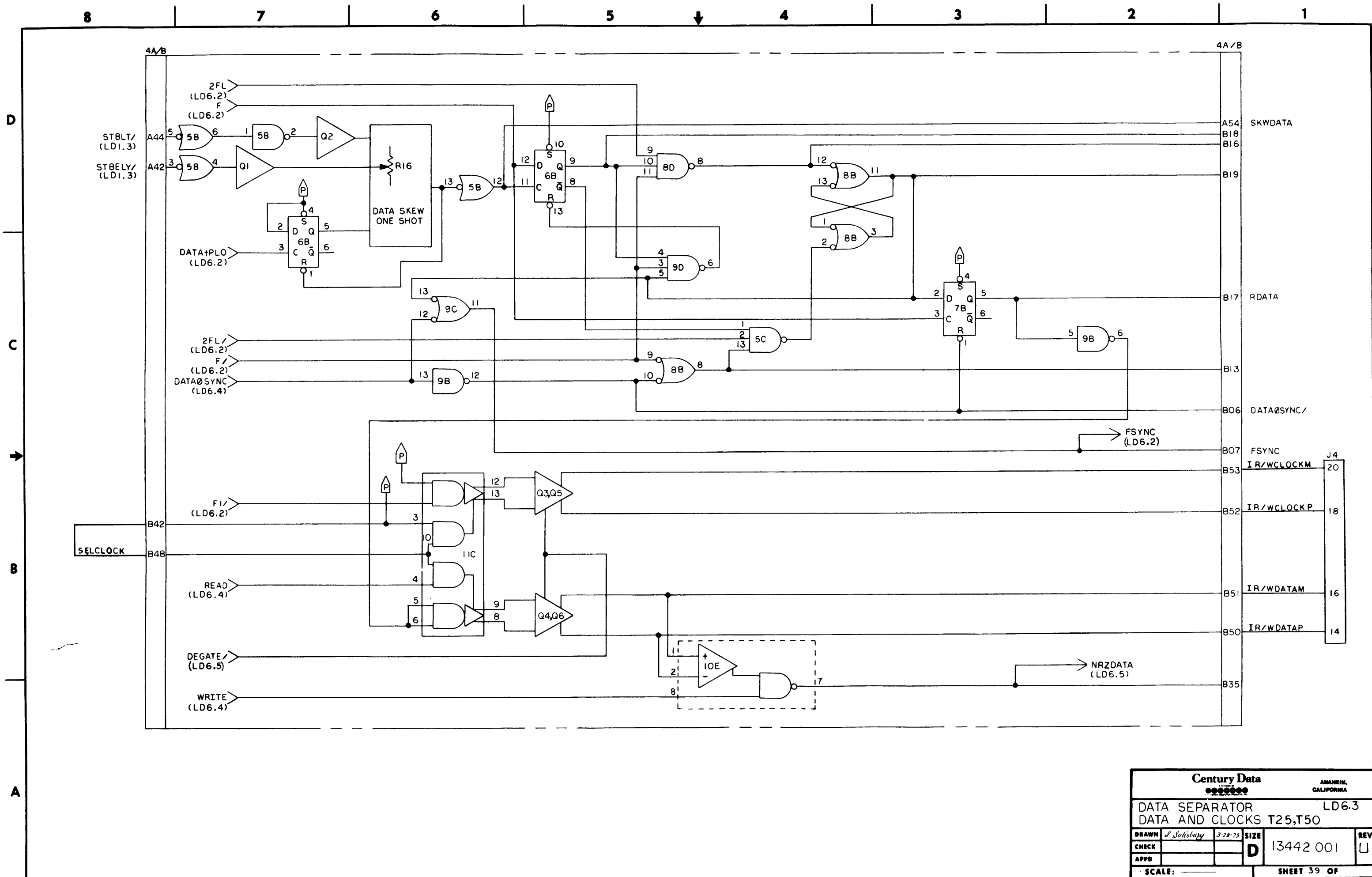


CALIFORNIA COMPUTER PRODUCTS INC.
 □ 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 □ 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92802

DATA SEPARATOR T80
 LD6.2.1

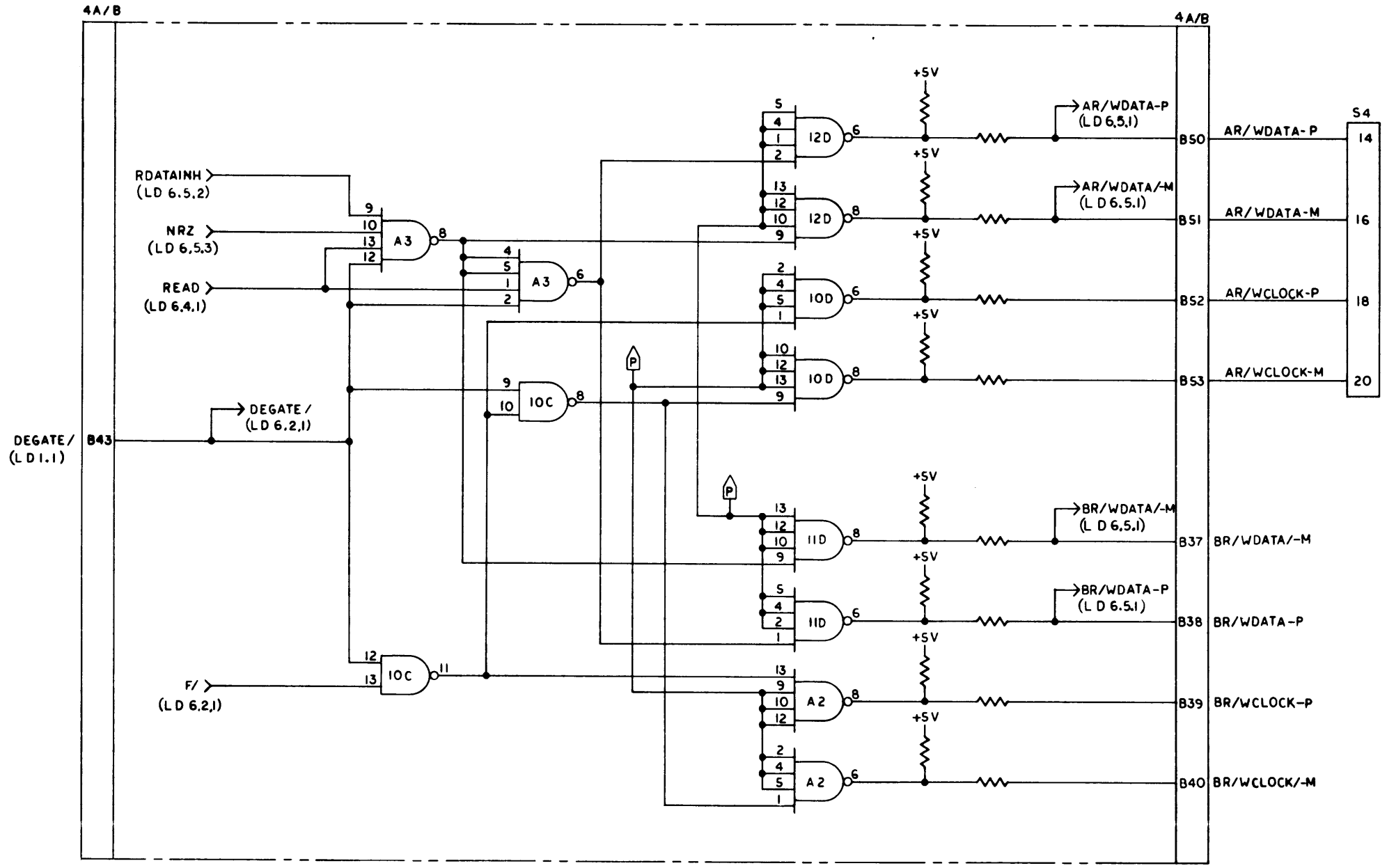
SCALE: **D** SIZE: **13442-001** SHEET: **38**

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Century Data		ANAHIM, CALIFORNIA	
DATA SEPARATOR		LD6.3	
DATA AND CLOCKS T25,T50			
DRAWN	<i>S. Salisbury</i>	3-28-75	SIZE
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APPD			13442 001
SCALE: _____		SHEET 39 OF _____	

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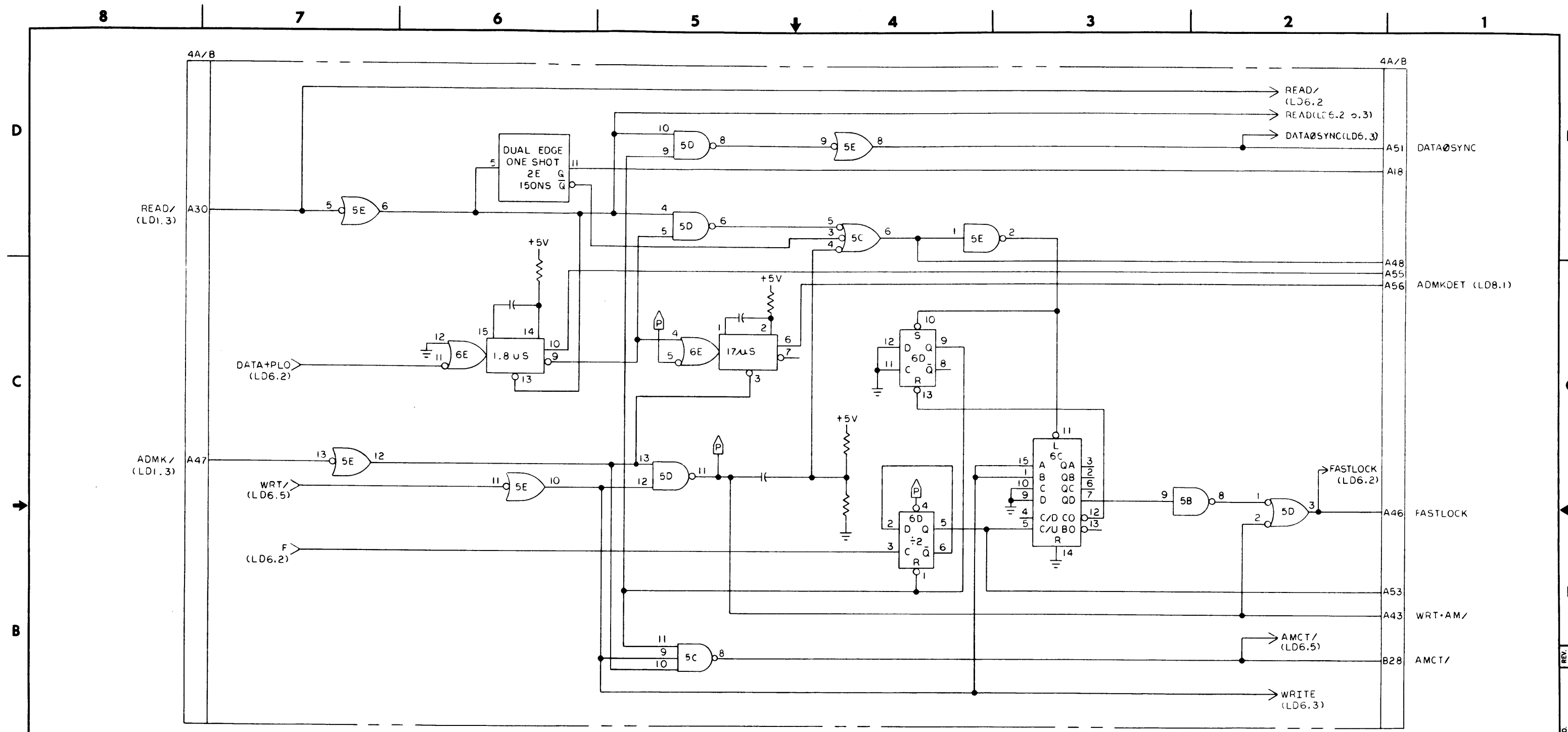
Century Data Systems, Inc.
1270 N. Kraemer, Anaheim, Ca. 92806

DATA AND CLOCKS, T80
LD 6.3.1

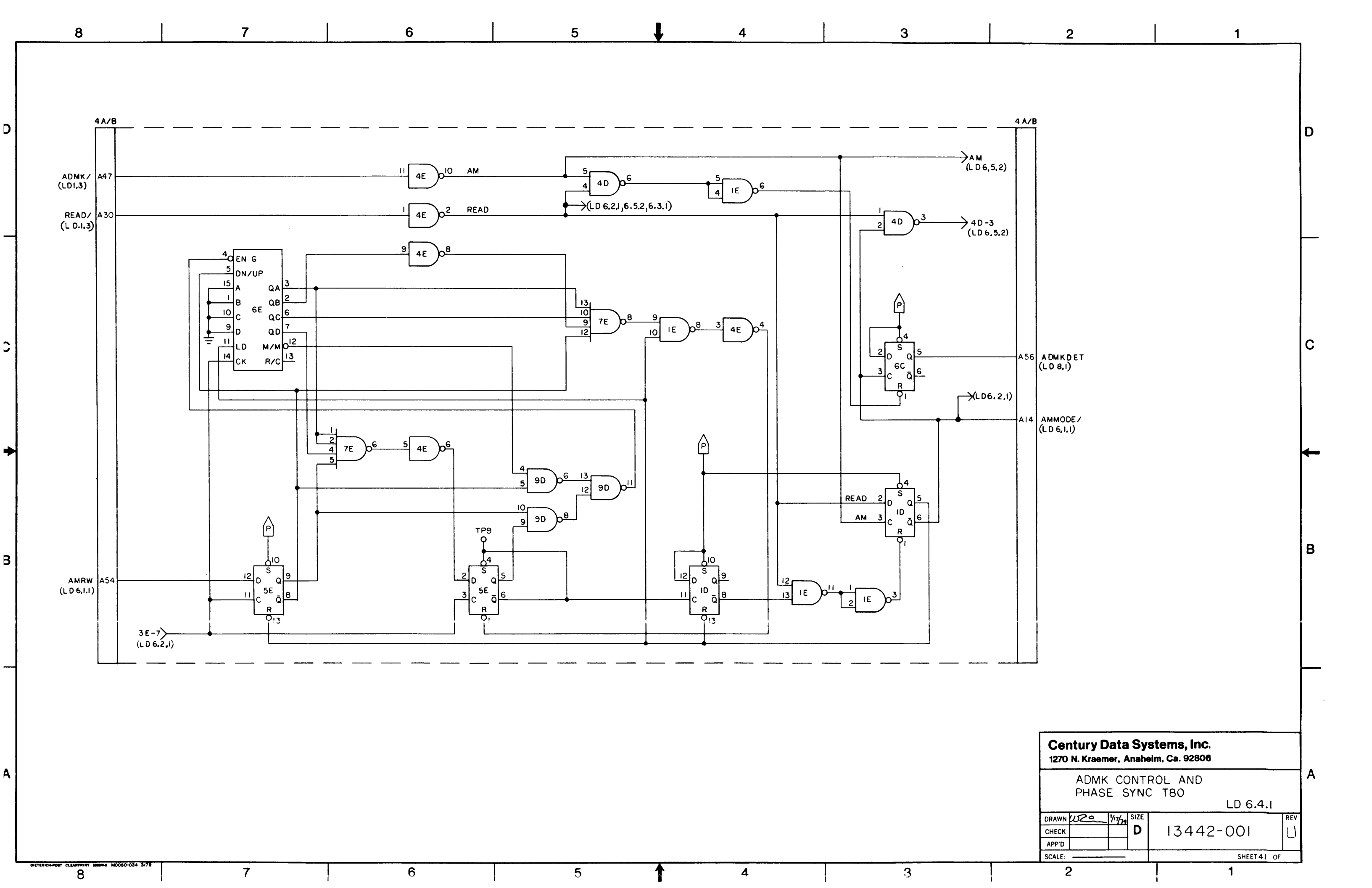
DRAWN	<i>[Signature]</i>	SIZE	D	13442 - 001	REV
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APP'D					

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8 7 6 5 4 3 2 1



Century Data		ANAHEIM, CALIFORNIA	
DATA SEPARATOR FAST LOCK AND ADMK CONTROL T25,T50 LD6.4			
DRAWN	<i>S. Schindler</i>	DATE	4-14-73
CHECK		SIZE	D
APPD		DWG NO.	13442-001
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		SHEET 40 OF	



Century Data Systems, Inc.
 1270 N. Kraemer, Anaheim, Ca. 92806

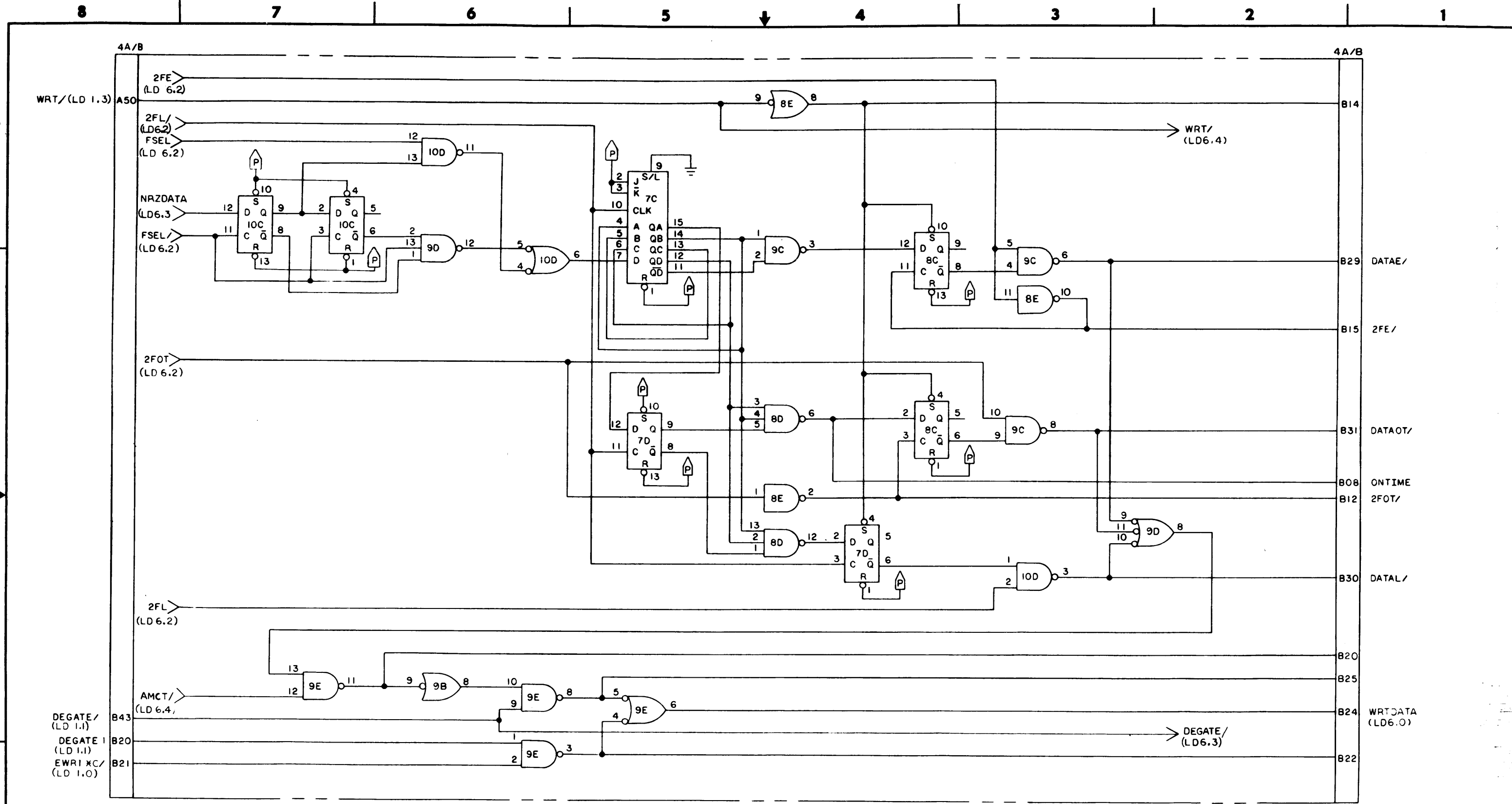
ADMK CONTROL AND
 PHASE SYNC T80

LD 6.4.1

DRAWN	WZ	1/17/79	SIZE	D	REV	U
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APP'D						
SCALE:						

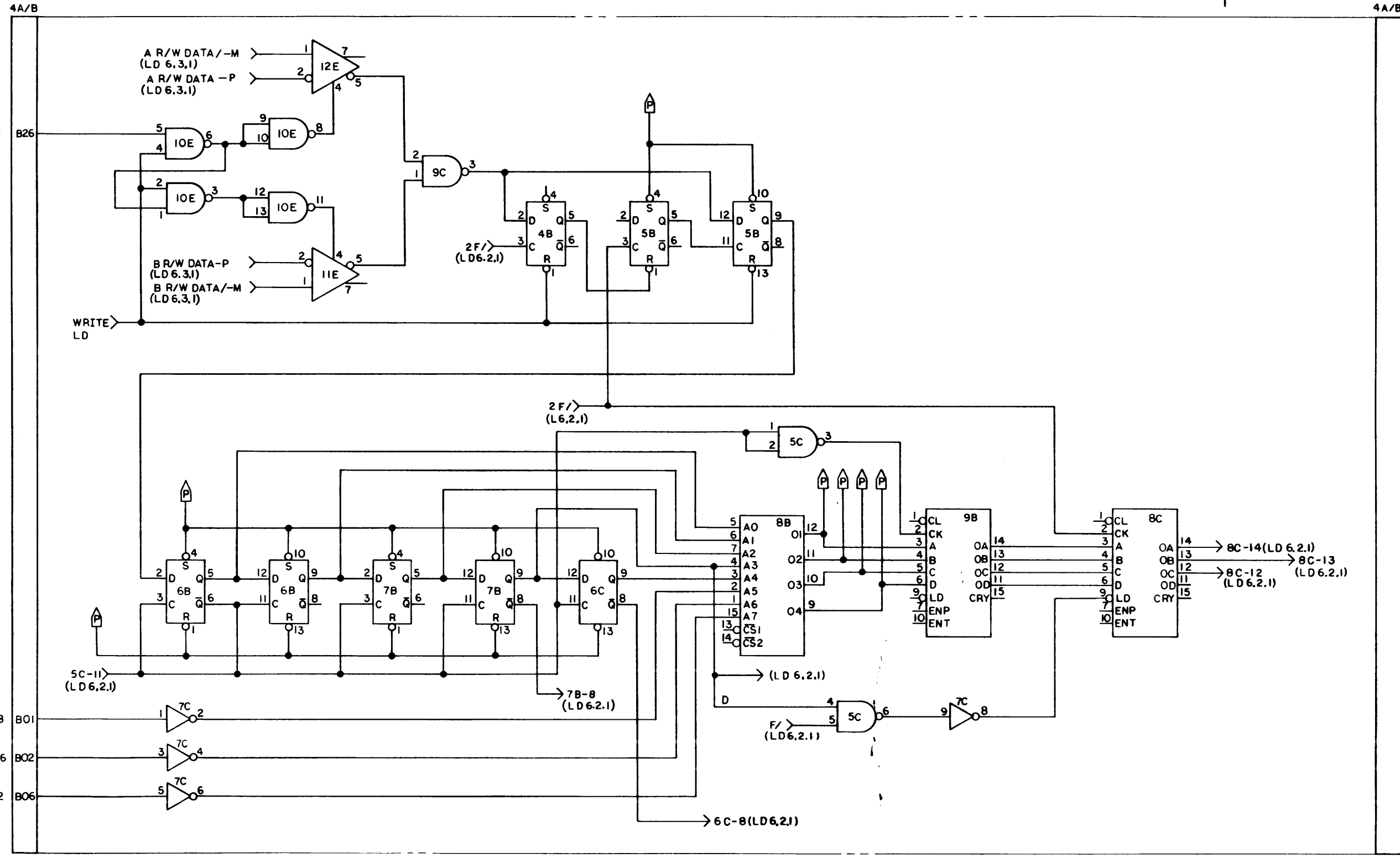
13442-001

SHEET 41 OF



Century Data ANALOG, CALIFORNIA	
DATA SEPARATOR-WRITE ENCODE T25.T50 LD6.5	
DRAWN	SIZE
CHECK	D 13442-001
APPD	REV F
SCALE:	SHEET 42 OF

REVISIONS		
REV	ZONE	DESCRIPTION



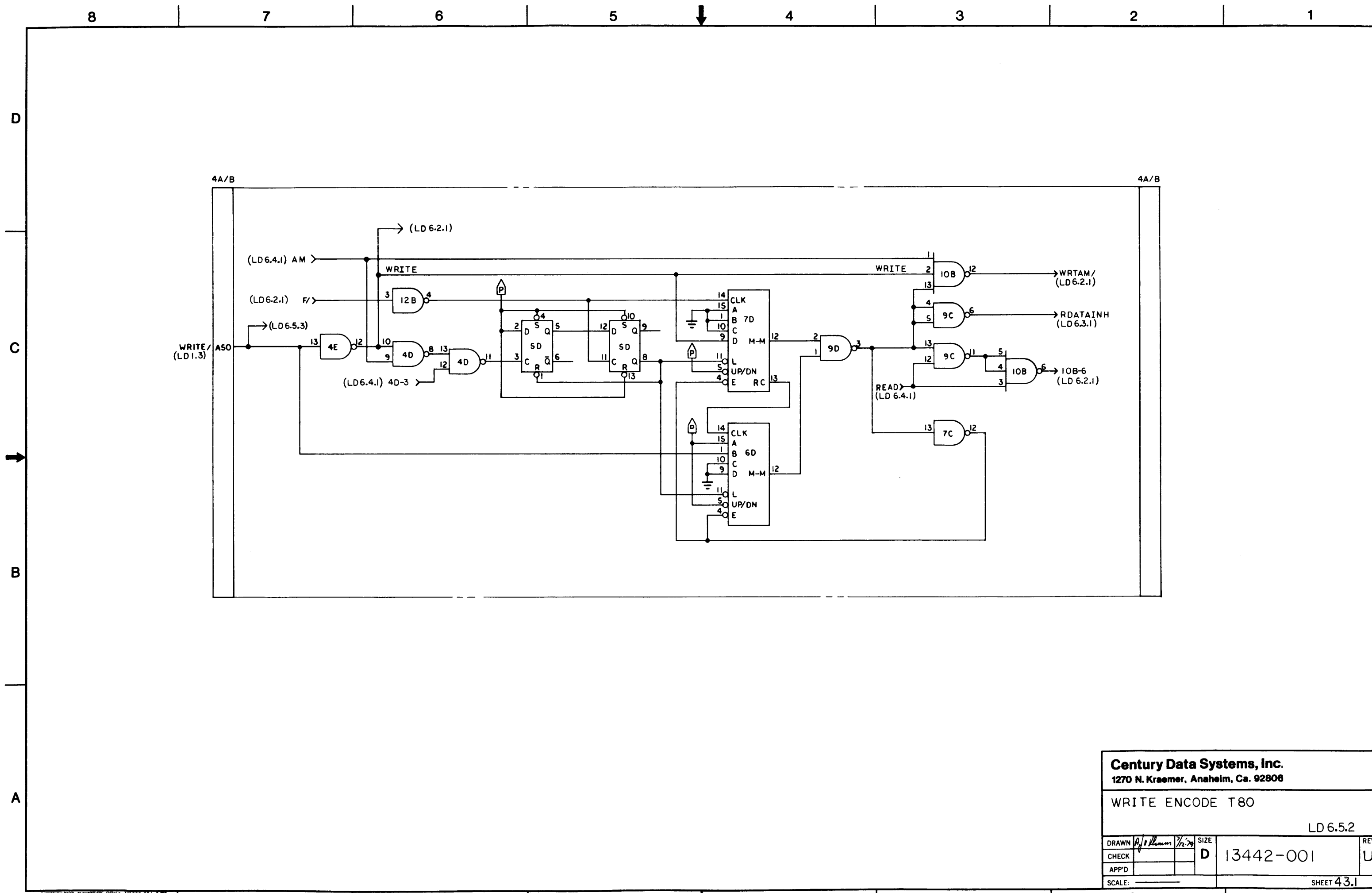
CALIFORNIA COMPUTER PRODUCTS INC.
 1220 NORTH BRADSHAW BLVD, ANAHEIM, CALIFORNIA 92805
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92806

WRITE ENCODE T80

LD 6.5.1

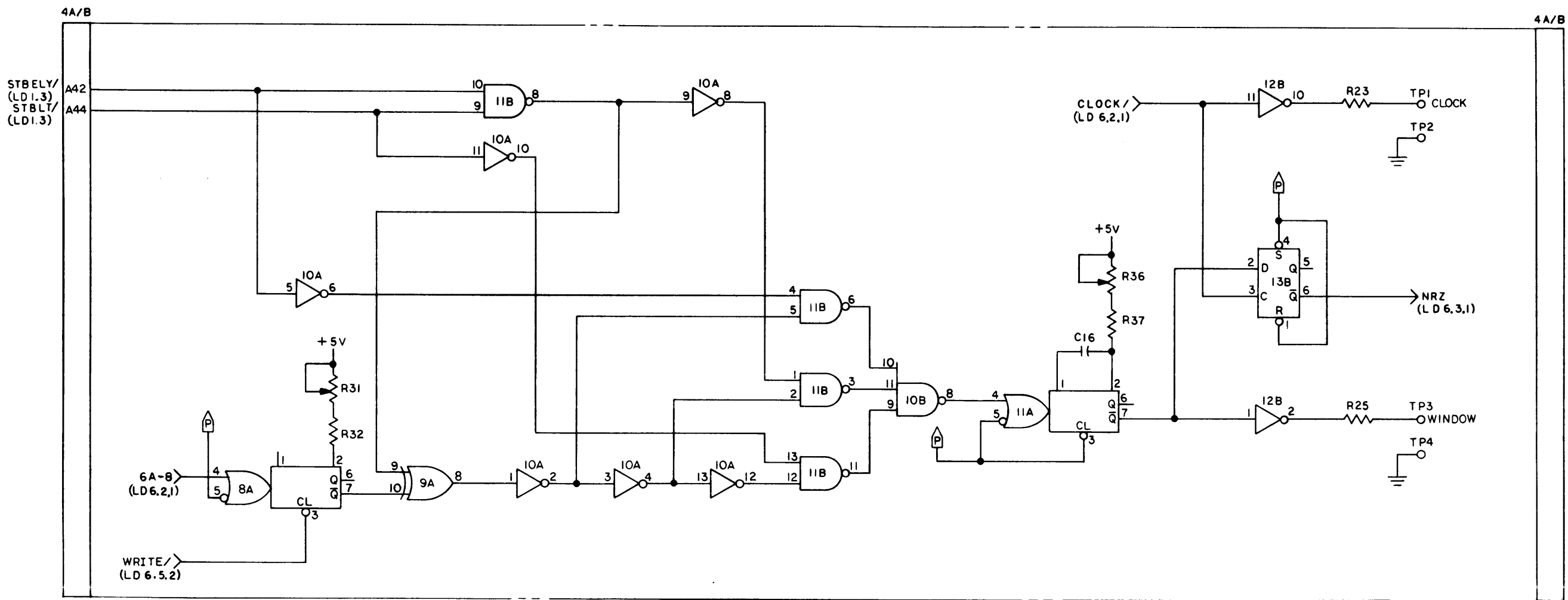
SCALE:	SIZE	U
	D	13442-001

SHEET 43



Century Data Systems, Inc.			
1270 N. Kraemer, Anaheim, Ca. 92808			
WRITE ENCODE T80			
LD 6.5.2			
DRAWN	<i>W. J. Klemm</i>	SIZE	D
CHECK		13442-001	REV U
APP'D			
SCALE:			SHEET 43.1

REVISIONS		
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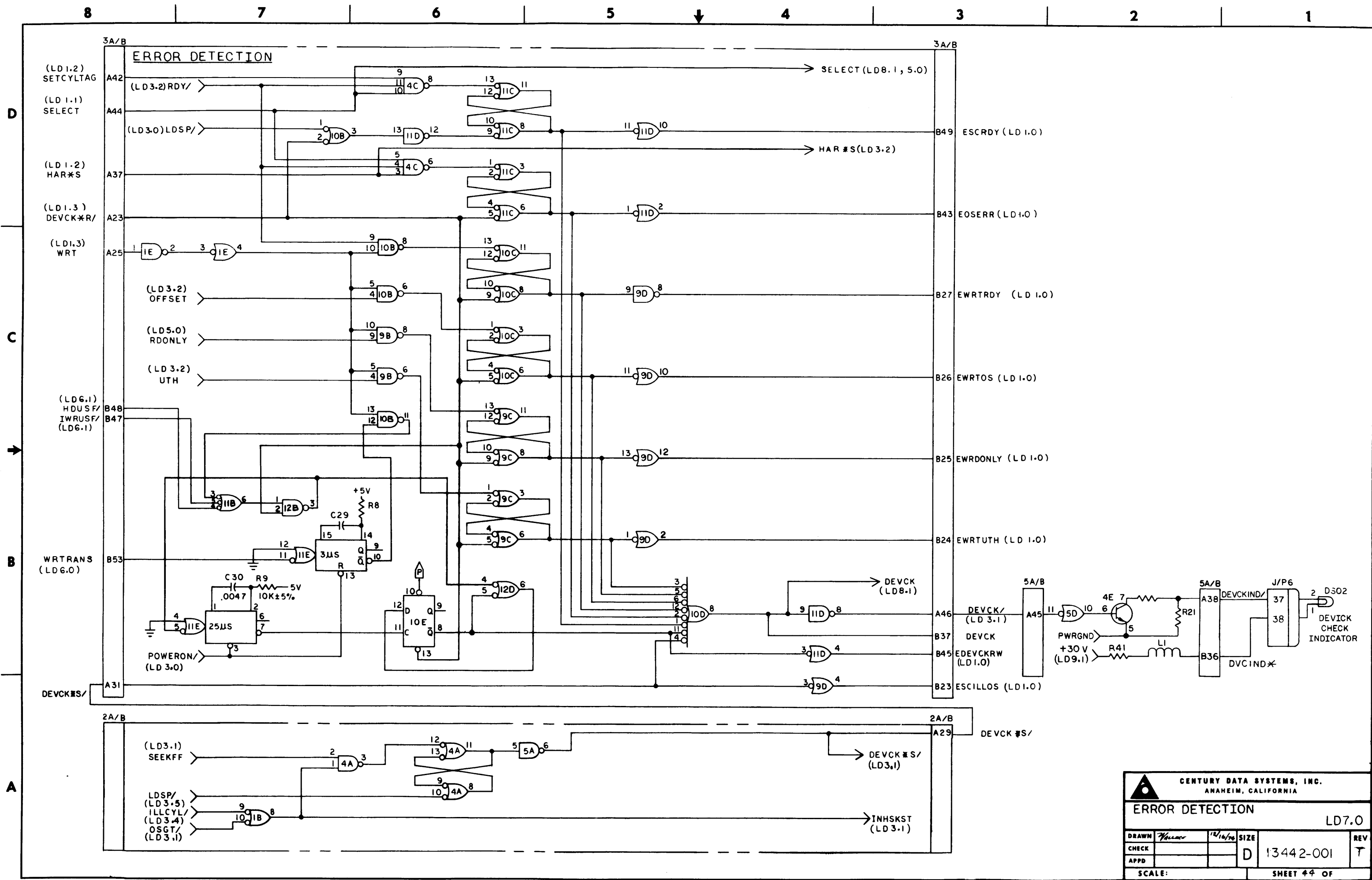
13442-001 S

CALIFORNIA COMPUTER PRODUCTS INC.
 □ 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 □ 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

WRITE ENCODE T80
 LD6.5.3

SCALE:	SIZE	13442-001	U
	D		

W. Williams SHEET 43.2



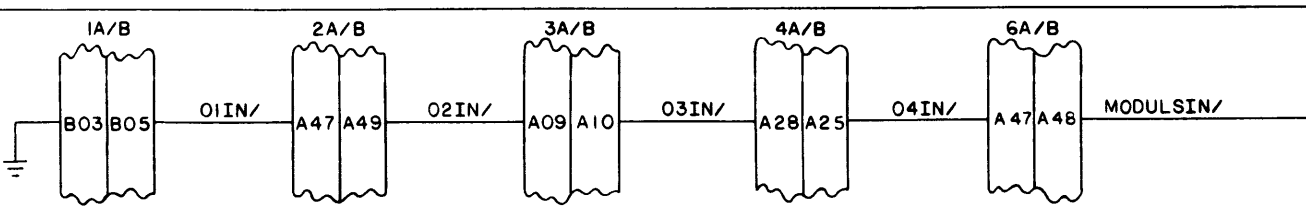
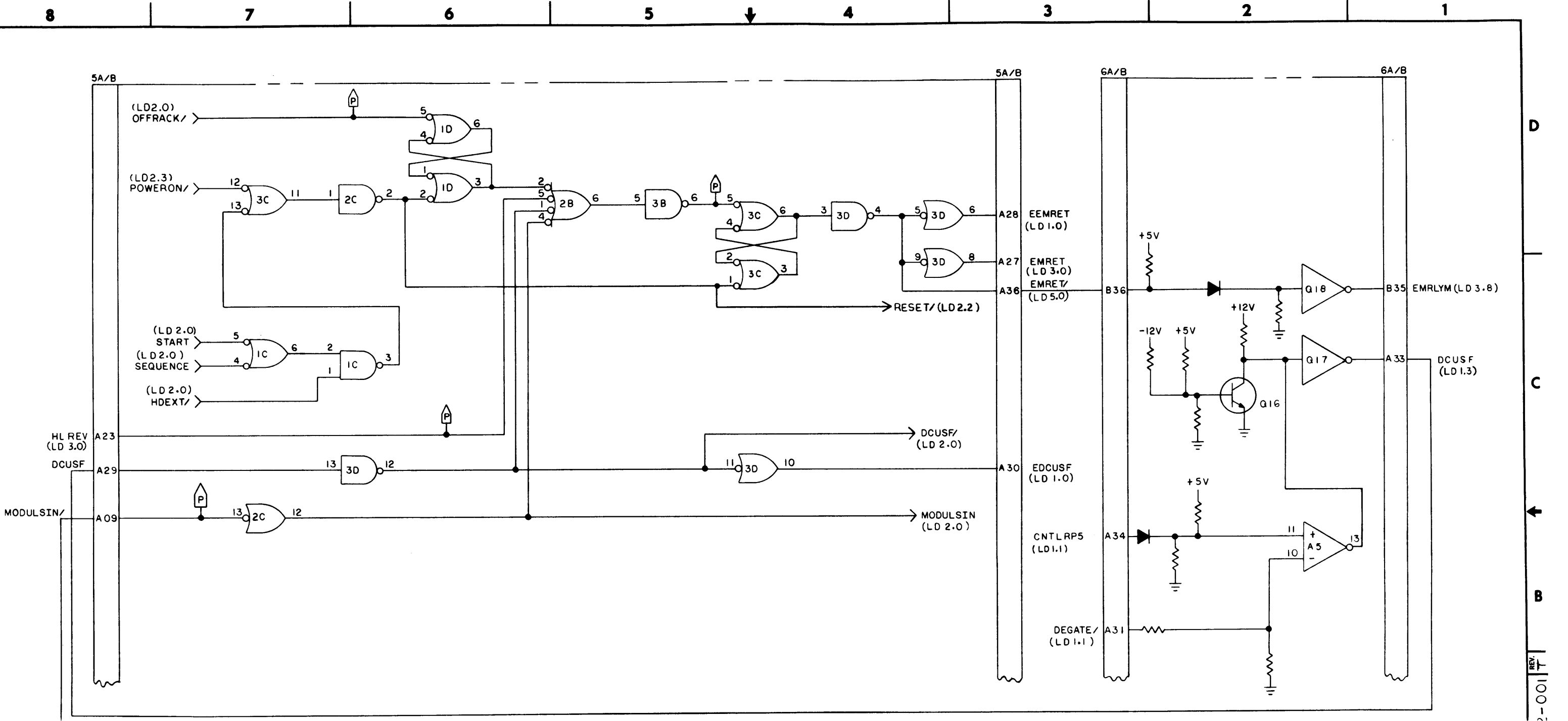
CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

ERROR DETECTION

LD7.0

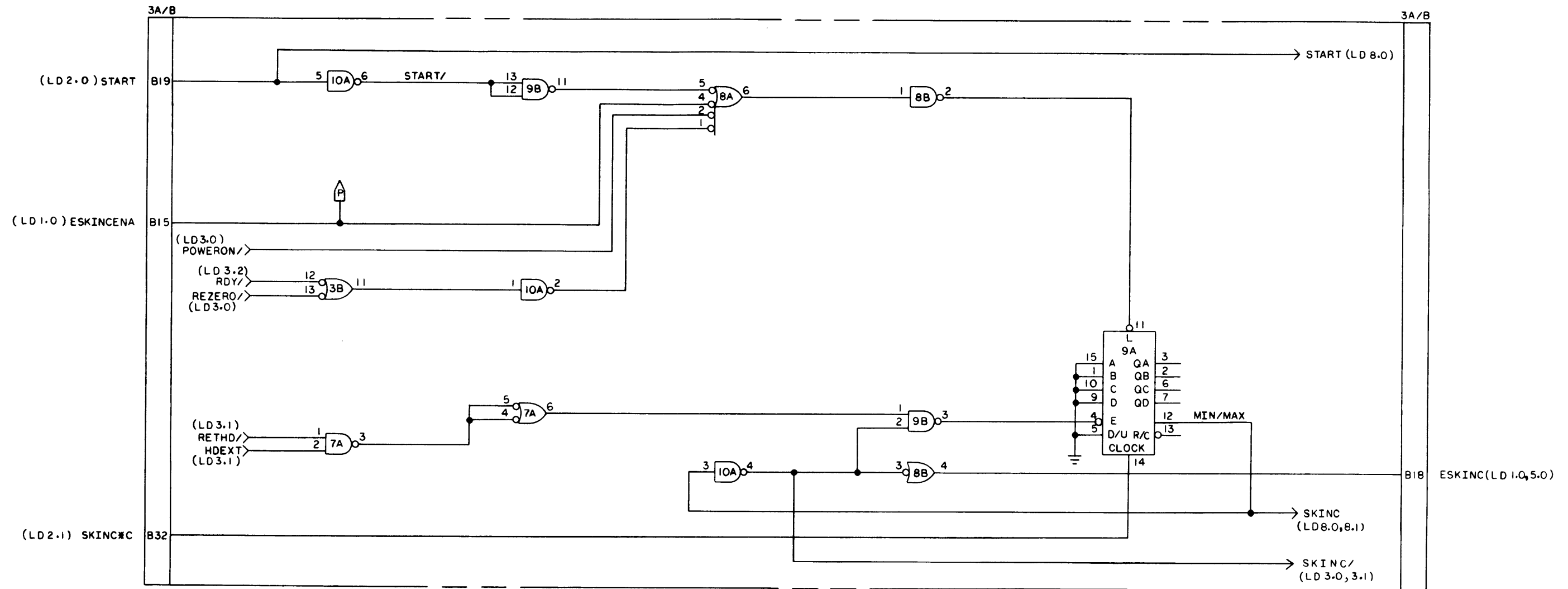
DRAWN	W. H. H.	12/16/76	SIZE	REV
CHECK			D	T
APPD			13442-001	
SCALE:			SHEET 44 OF	

DWG NO. 13442-001 REV. T



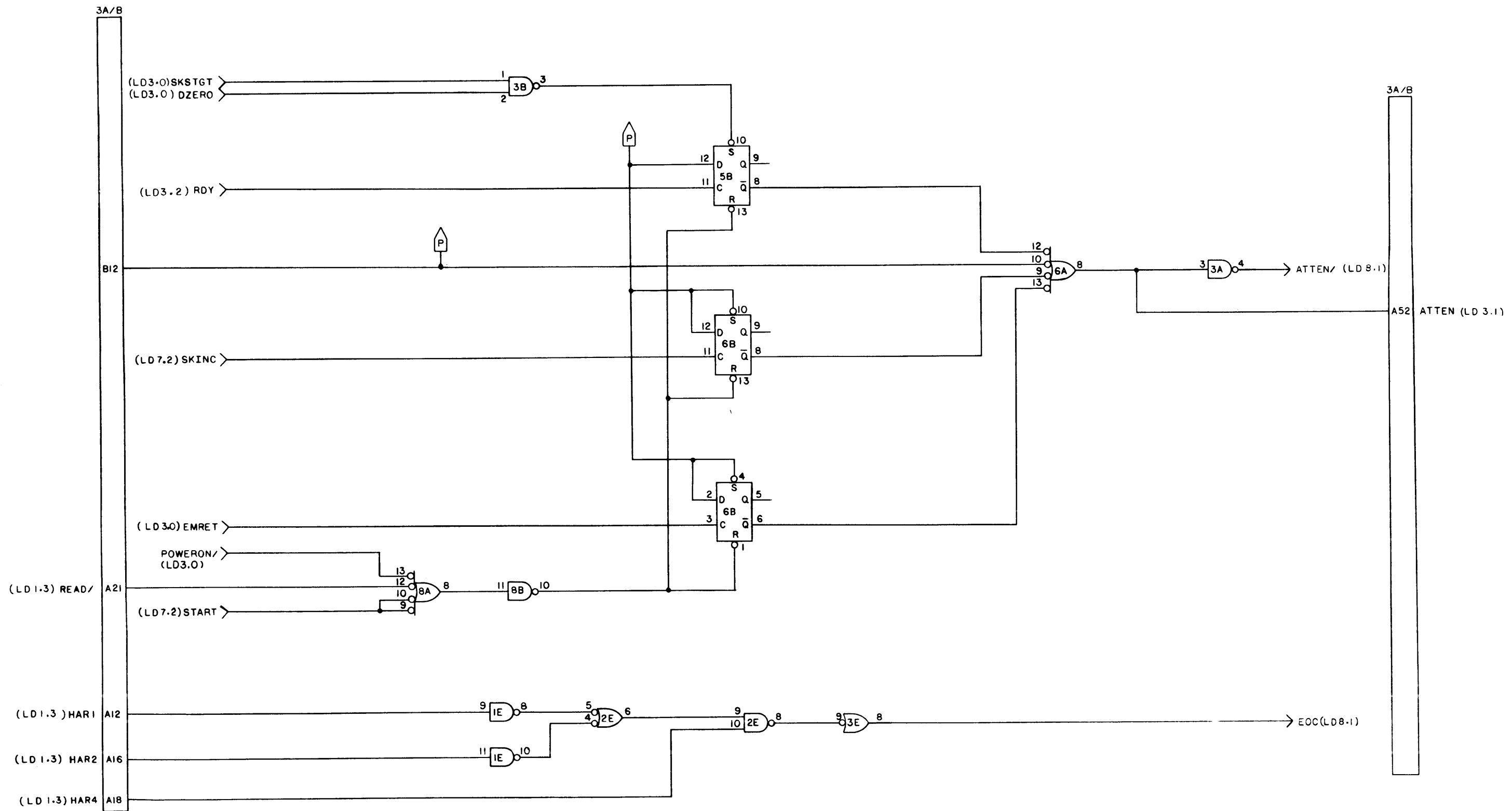
Century Data		ANAHEIM, CALIFORNIA	
DCUSF, EMERGENCY RETRACT AND MODULE IN INTERLOCK LD7.1			
DRAWN	<i>J. Salisbury</i>	3-3-75	SIZE D
CHECK			13442-001
APPD			REV T
SCALE:		SHEET 45 OF	

DWS NO. 13442-001 REV. T




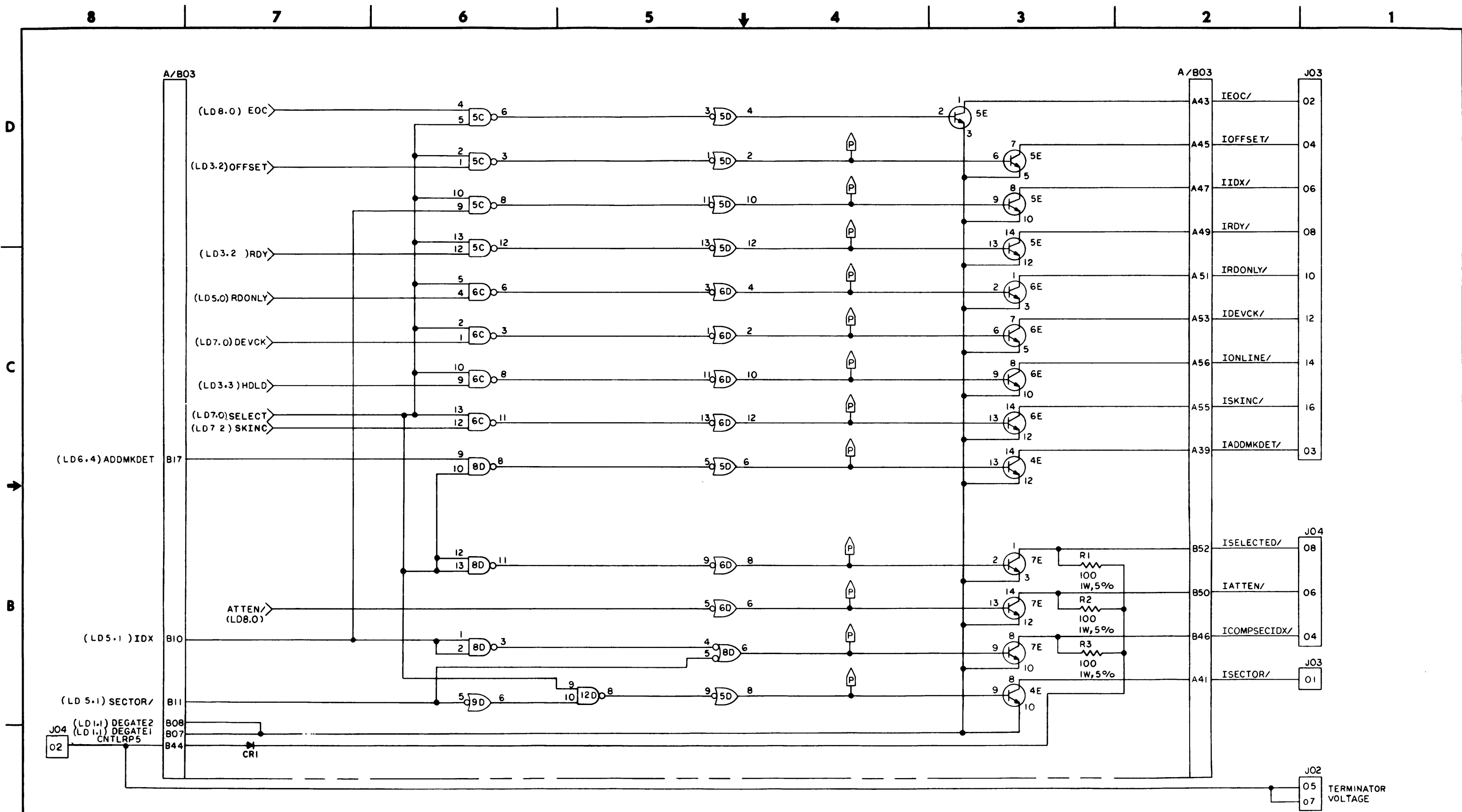
CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SEEK INCOMPLETE LD 7.2			
DRAWN	<i>J. Salisbury</i>	12-8-78	SIZE
CHECK			D
APPD			
SCALE: —			REV
SHEET 4 OF			T

13442-001

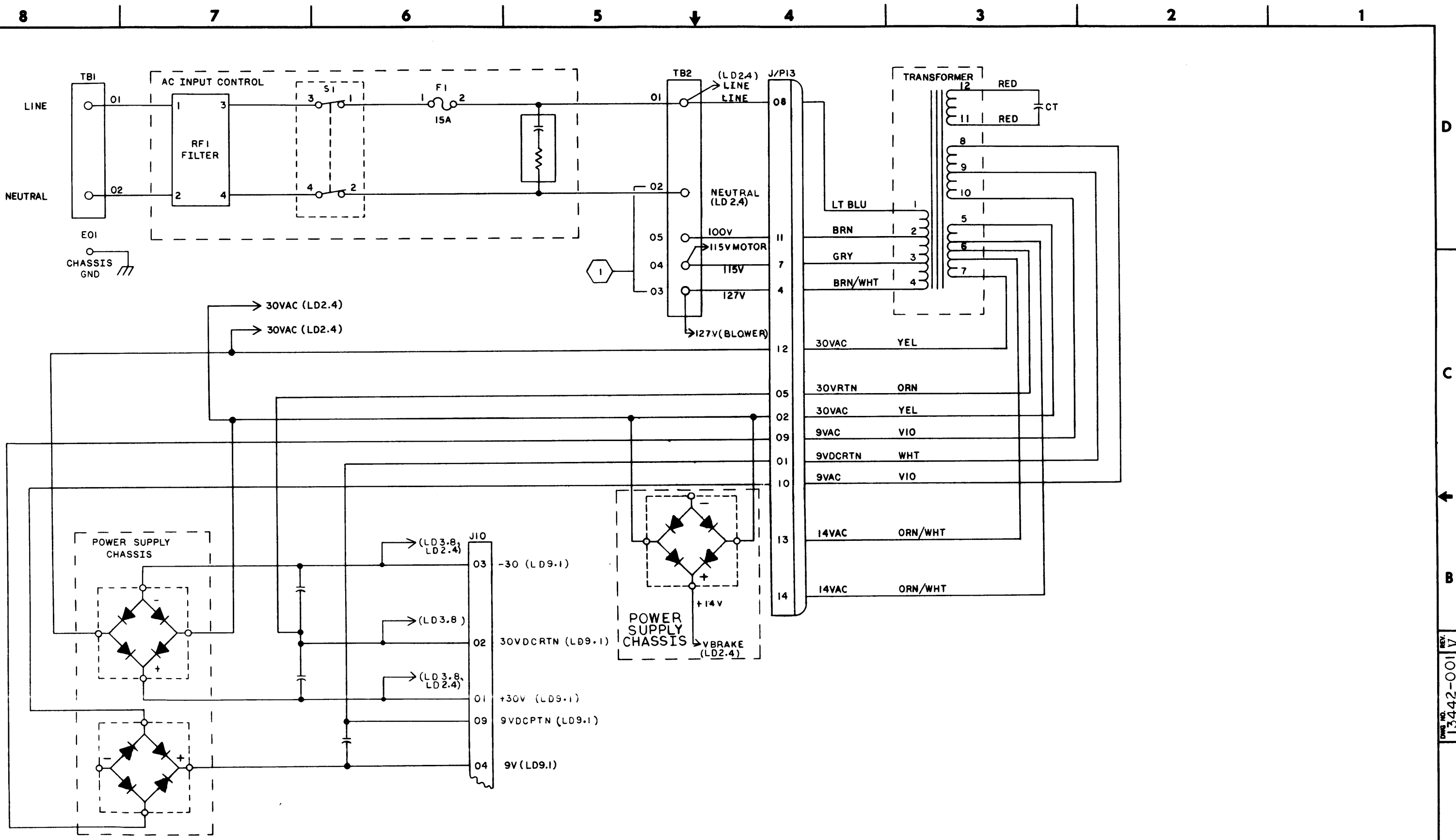


13442-001 C

 CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
ATTENTION AND EOC LD8.0			
DRAWN		SIZE	REV
CHECK		D	13442-001 C
APPD			
SCALE:		SHEET 47 OF	



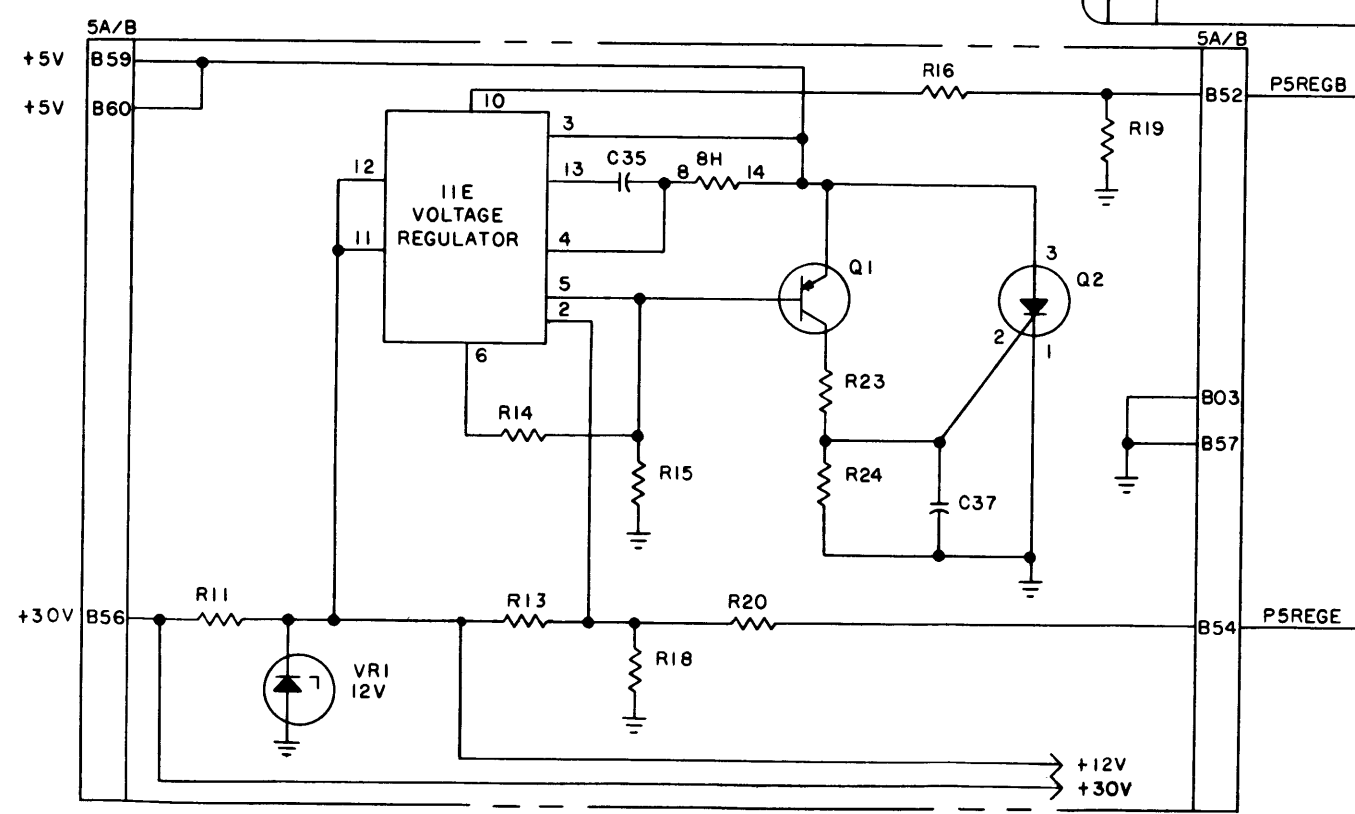
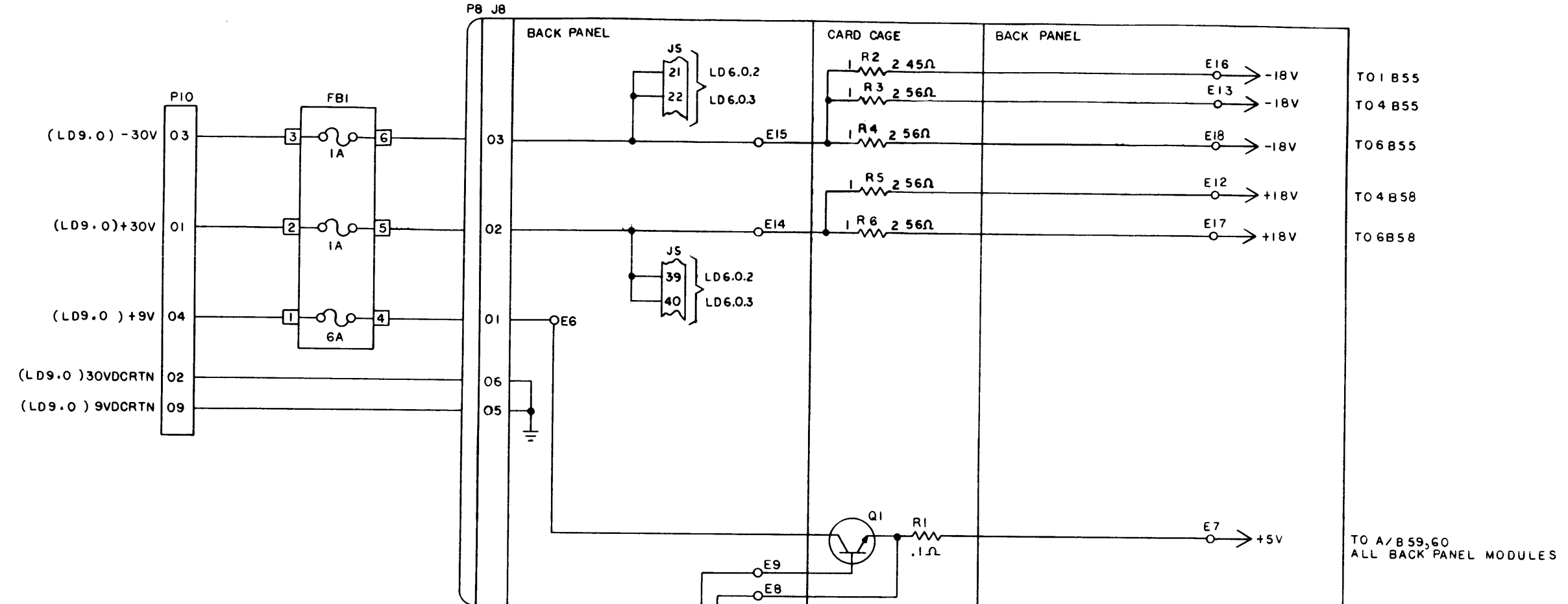
Century Data ANAHIM, CALIFORNIA	
OUTPUT INTERFACE LD 8.1	
DRAWN <i>J. Saltsky</i>	SIZE D
CHECK	13442-001
APPD	REV P
SCALE:	SHEET 48 OF



NOTES:
 1 TB2-2 IS JUMPERED TO TB2-3, (127VAC), TO TB2-4, (115V), OR TO TB2-5, (100VAC).

Century Data AMARINO, CALIFORNIA	
POWER SUPPLY (LD9.0.1) TRIDENT	
DRAWN <i>Z. BREWSTER</i>	DATE 12-6-75
CHECK	SIZE D
APPD	13442-001
SCALE:	REV V
SHEET 49 OF	

DWS NO. 13442-001 V



Century Data		ANAHEIM, CALIFORNIA	
POWER SUPPLY 5V REGULATOR LD9.1			
DRAWN	<i>A. Salisbury</i>	3-5-75	SIZE
CHECK			D
APPD			13442-001
SCALE:			REV
			V
SHEET 50 OF			

8 7 6 5 4 3 2 1

D

C

B

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D

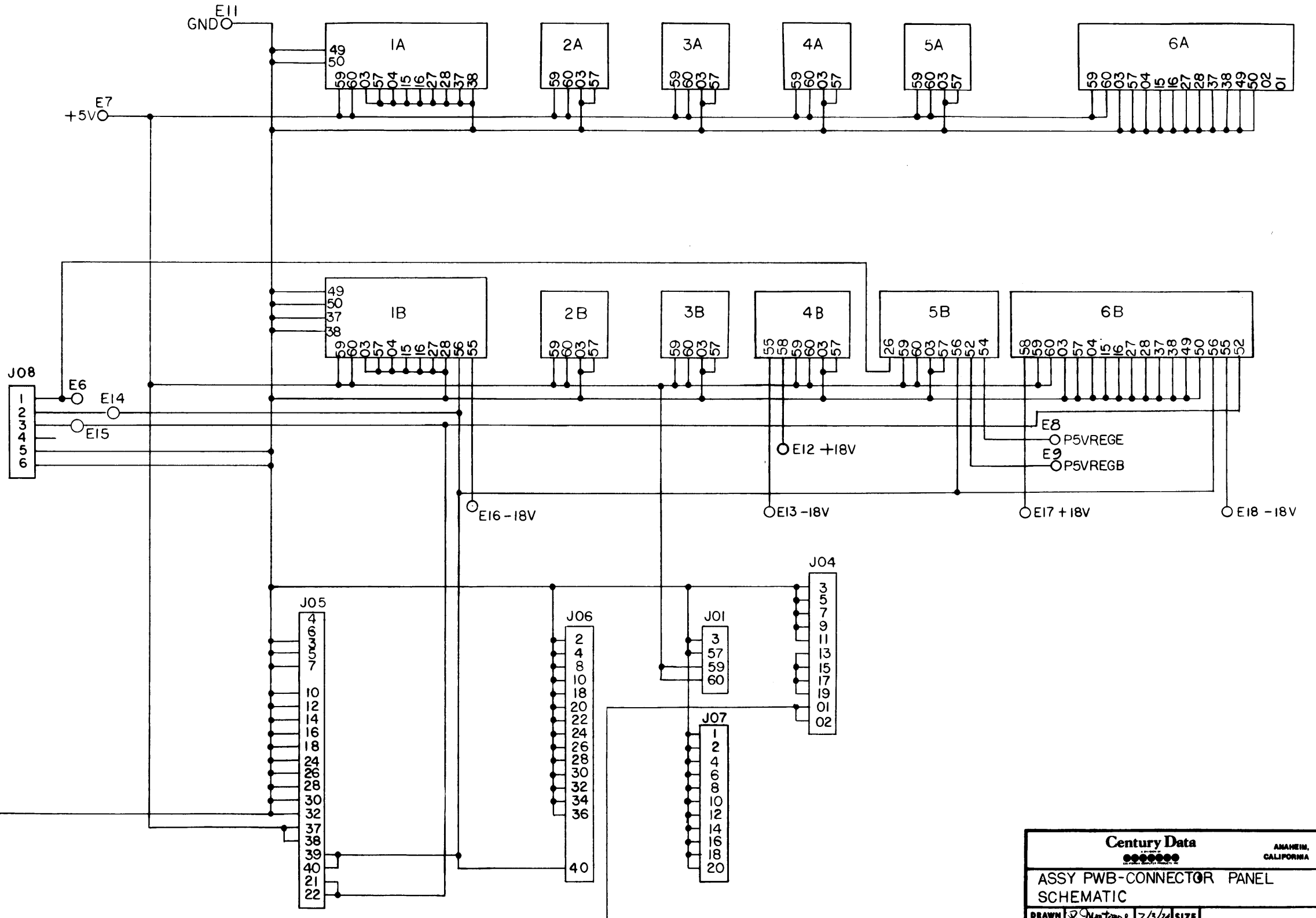
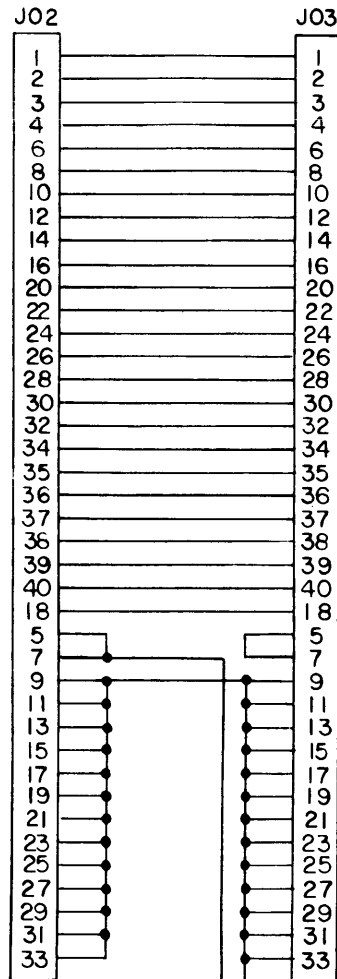
C

B

A

I SECTOR/
IEOC/
IADDMKDET/
IOFFSET/
IIDX/
IRDY/
IRDONLY/
IDEVCK/
IONLINE/
ISKINC/
IBUS 0/
IBUS 1/
IBUS 2/
IBUS 3/
IBUS 4/
IBUS 5/
IBUS 6/
IBUS 7/
IBUS 8/
ITERIN/
IBUS 8/
ICONTRTAG/
IBUS 9/
ISETCYLTAG/
ISETHDTAG

CNTRL P5V1
CNTRL P5V2
GND



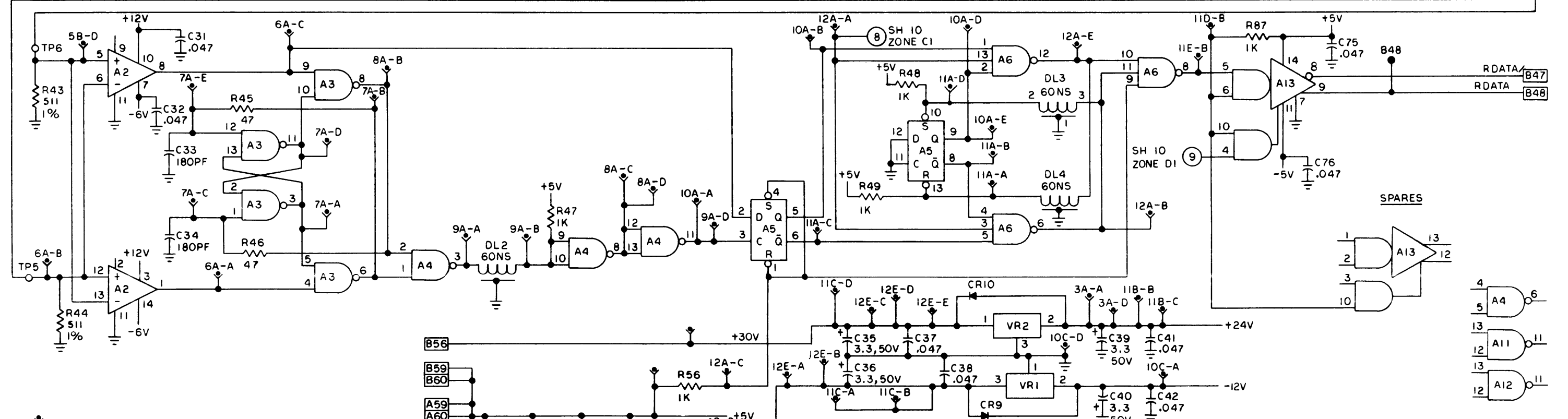
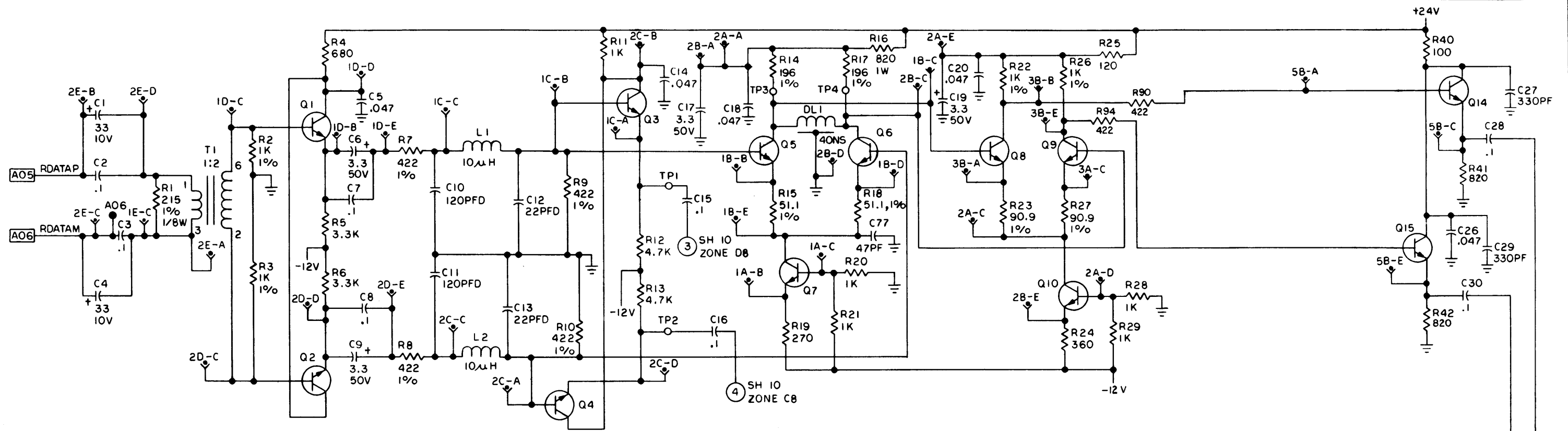
Century Data ANAHEIM, CALIFORNIA

ASSY PWB-CONNECTOR PANEL SCHEMATIC

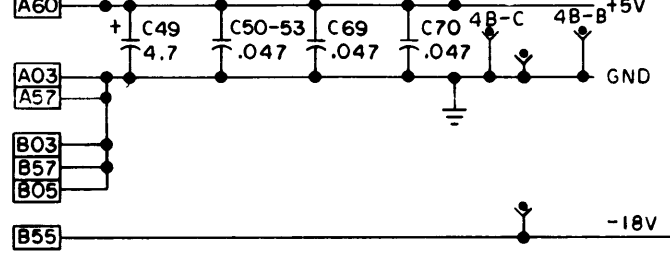
DRAWN	<i>R. Montone</i>	7/3/74	SIZE	D	RFV
CHECK				12332-001	RM
APPD					

SCALE: SHEET 4 OF 4

DWG NO. 12332-001 REV. 1



- 4. ⚡ INDICATES NODE TEST POINTS.
 - 3. ● INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD.
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 - 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
- NOTES: UNLESS OTHERWISE SPECIFIED.



I.C. VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. DEF. DESIGNATION
+5V	14	A3-A6, A10-A13
GND	7	A3-A6, A10-A13

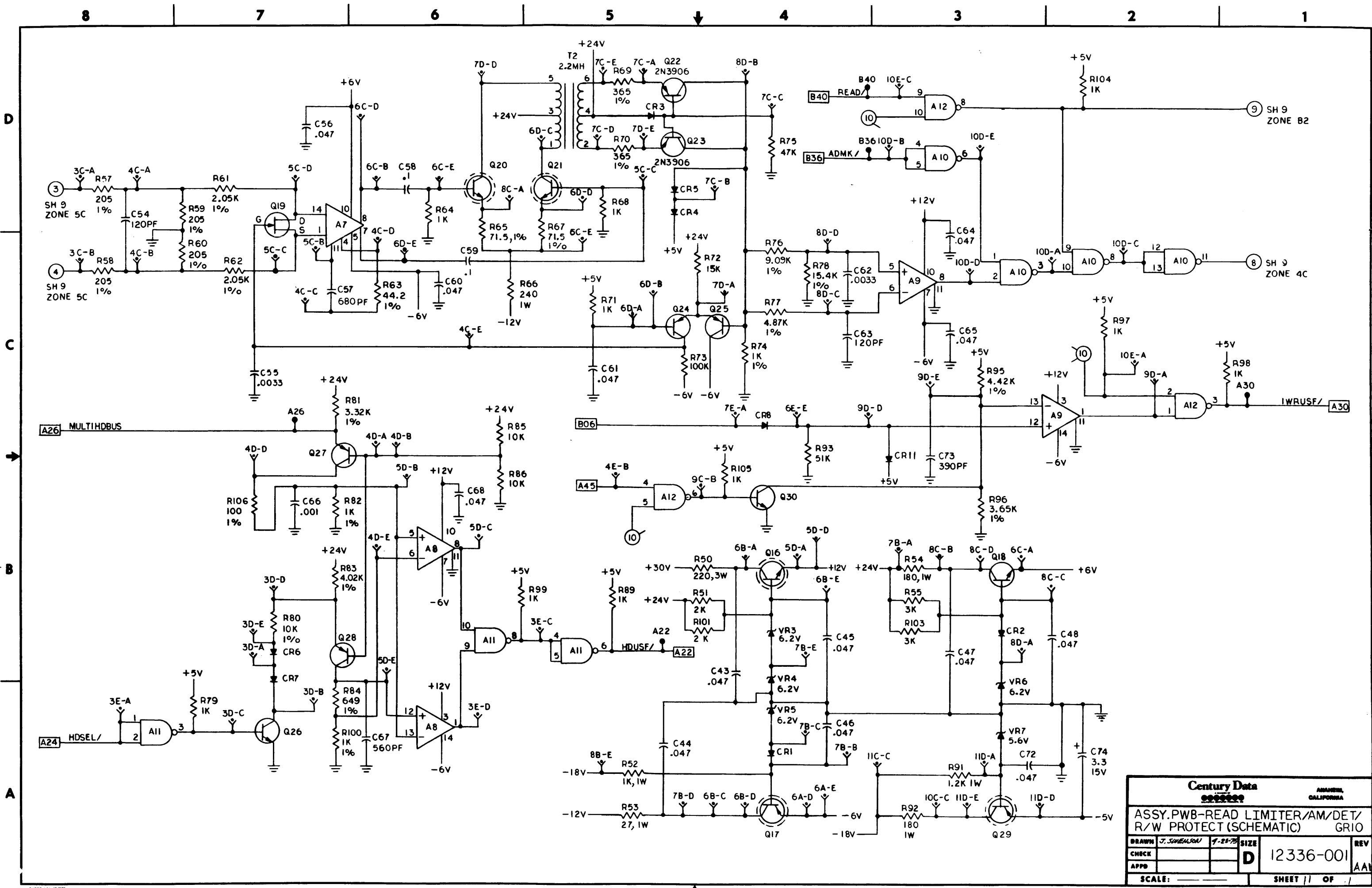
REF. DES. LAST USED	REF. DES. NOT USED
C77	T2
Q30	A13
CR11	R102
VR7	R8B
L2	C71
RI06	C21-25
DL4	R30-39
	Q11-13

Century Data
ANAHEIM, CALIFORNIA

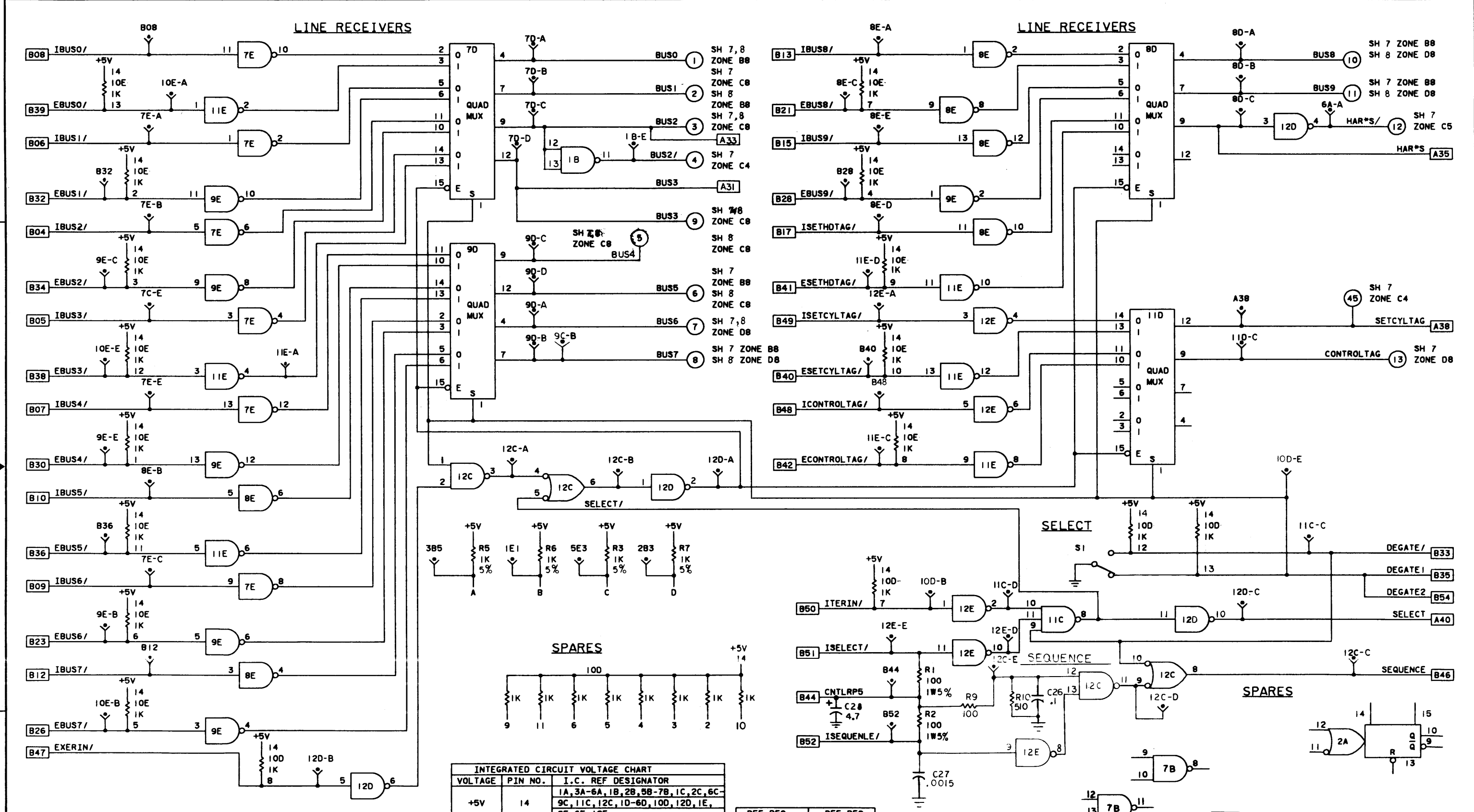
ASSY, PWB-READ LIMITER/AM/DET/R/W PROTECT (SCHEMATIC) GRIO

DRAWN: <i>D. S. ...</i>	SIZE: D	REV: AA1
CHECK: _____	12336-001	
APPD: _____	SHEET 70 OF 11	

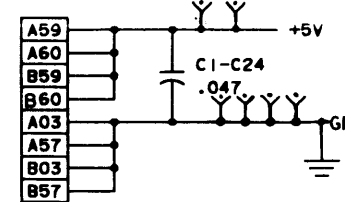
REV. 12336-001 AA1



Century Data		ANAHEIM, CALIFORNIA	
ASSY.PWB-READ LIMITER/AM/DET/R/W PROTECT (SCHEMATIC)			
GRI0			
DRAWN J. SHENSON	DATE 7-21-75	SIZE D	REV 12336-001
CHECK			APP AAI
SCALE:		SHEET 11 OF 11	



3. ∇ INDICATES NODE TEST POINTS.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 2%.
 NOTE: UNLESS OTHERWISE SPECIFIED.



INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	1A, 3A-6A, 1B, 2B, 5B-7B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 10D, 12D, 1E, 2E, 6E-12E
		2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E
+5V	16	1A, 3A-6A, 1B, 2B, 5B-7B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 12D, 1E, 2E, 6E-9E, 11E, 12E
		2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E
GND	7	1A, 3A-6A, 1B, 2B, 5B-7B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 12D, 1E, 2E, 6E-9E, 11E, 12E
		2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E
GND	8	1A, 3A-6A, 1B, 2B, 5B-7B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 12D, 1E, 2E, 6E-9E, 11E, 12E
		2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E

REF DES	LAST USED	REF DES	NOT USED
6A			
7B			
12C		10C	
12D			
12E			
R10	60	60	60
C28	S1		

Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA

ASSY, PWB - LOGIC I (SCHEMATIC) GL10

DRAWN: <i>G. Dewey</i>	5-1674	SIZE: D	REV: M
CHECK: <i>R. R. R.</i>	7-27-74	12342-001	
APPD:		SHEET 6 OF 8	

D

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B

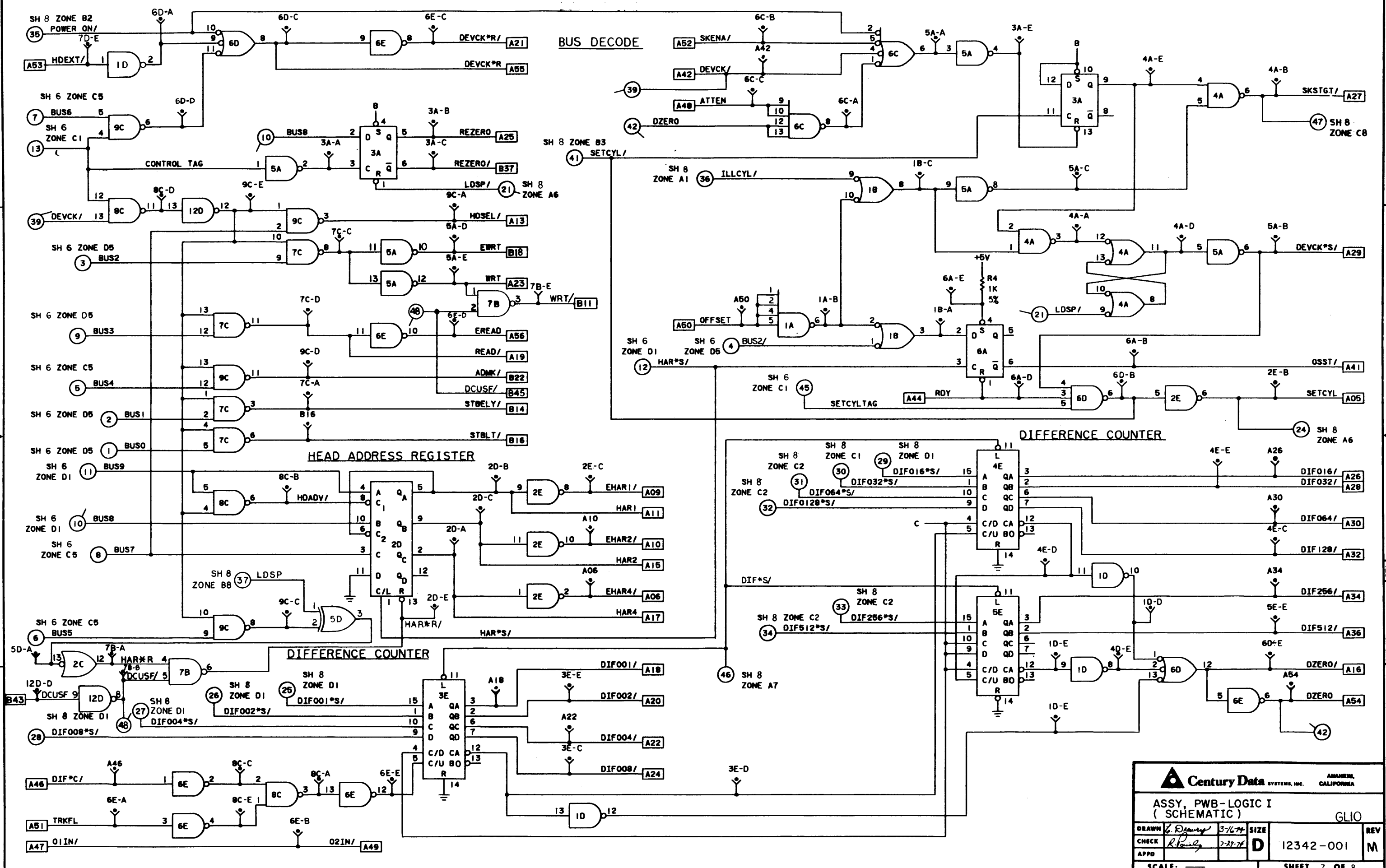
A

D

C

B

A



Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA

ASSY, PWB-LOGIC I (SCHEMATIC) GLIO

DRAWN	C. Dancy	3-7-74	SIZE		REV
CHECK	R. Pandy	7-27-74	D	12342-001	M
APPD					

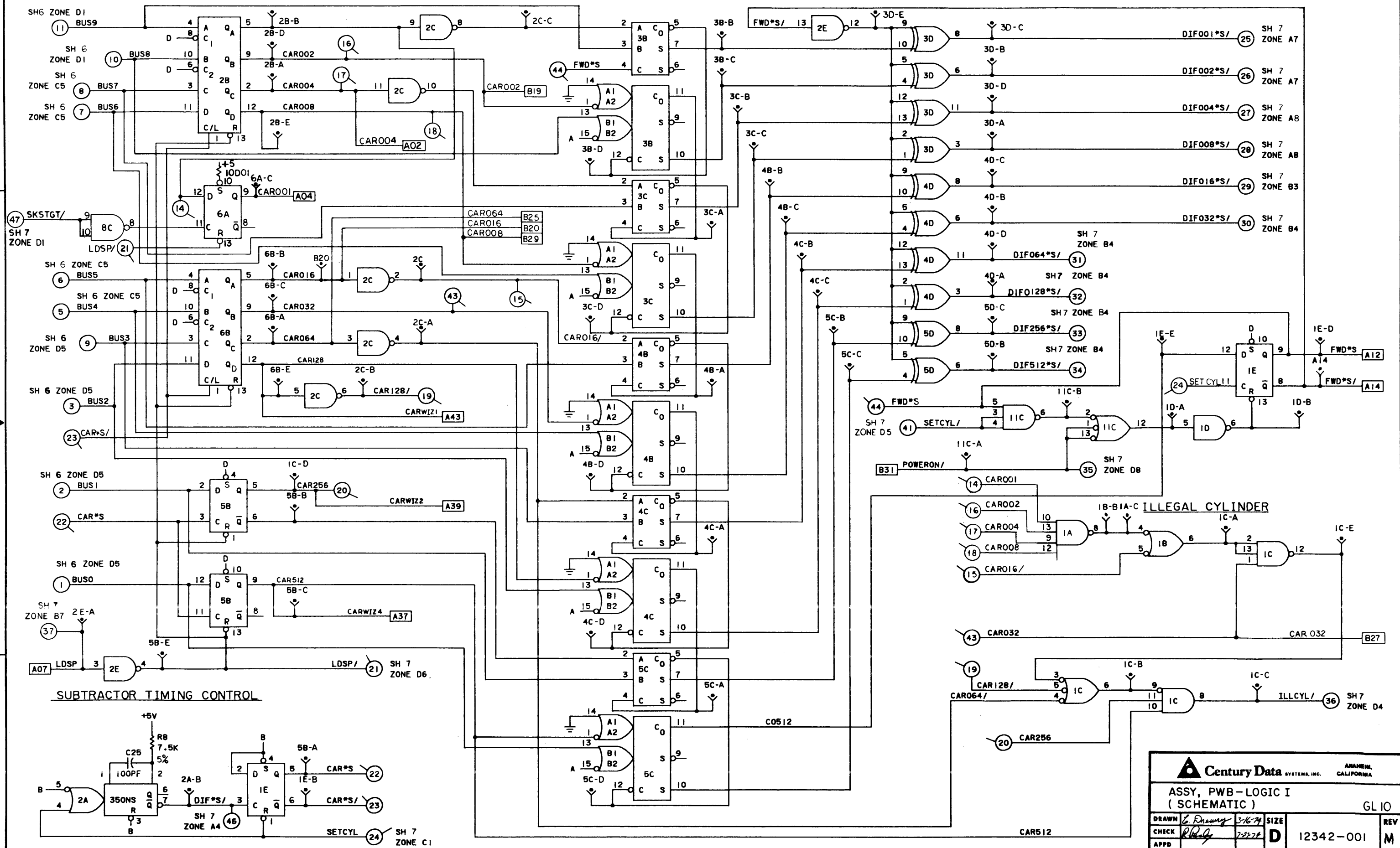
SCALE: — SHEET 7 OF 8

REV. 12342-001 M

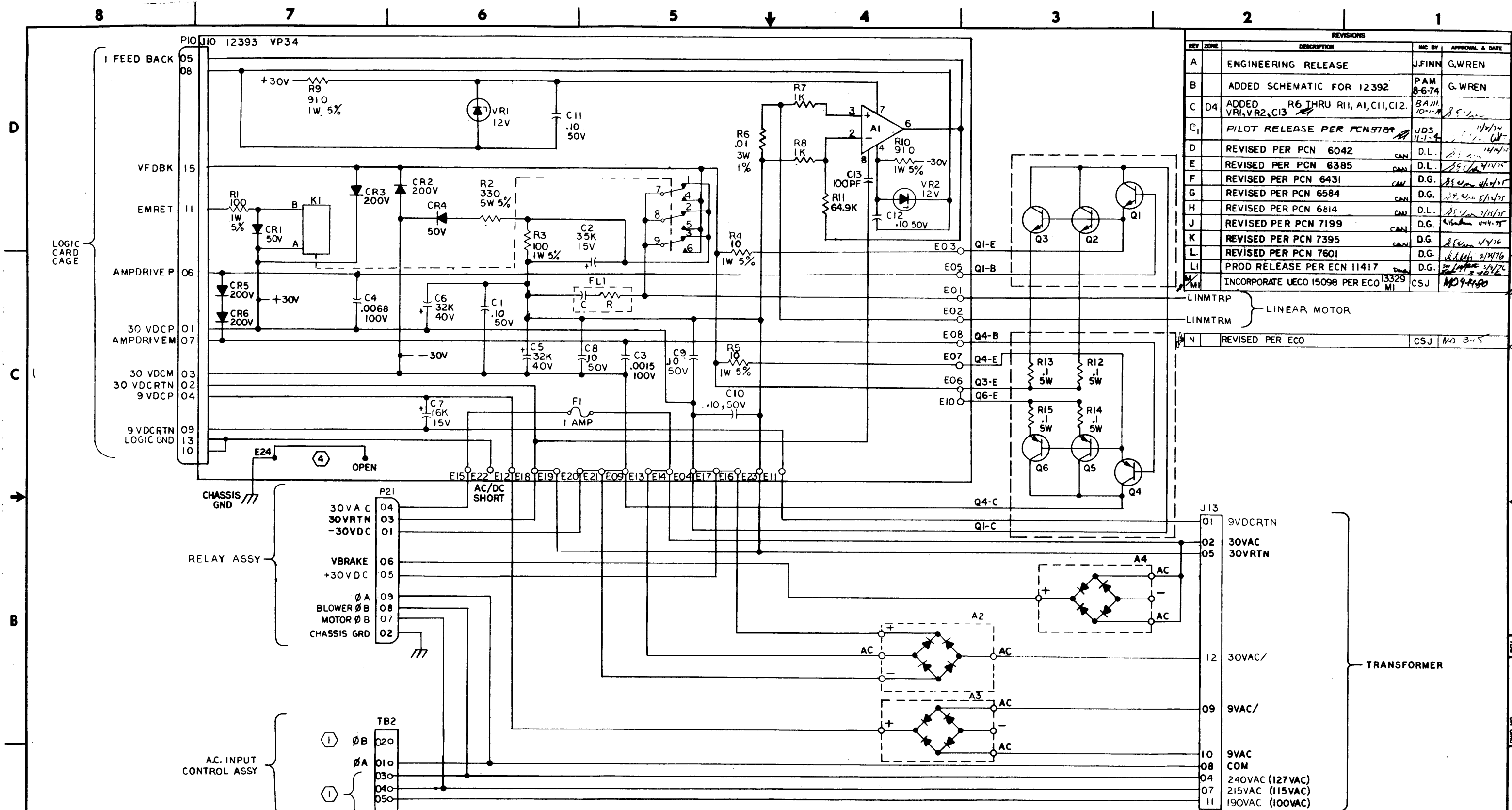
CYLINDER ADDRESS REGISTER

SUBTRACTOR

DIFFERENCE INPUT CONTROL



Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
ASSY, PWB-LOGIC I (SCHEMATIC)	
GL10	
DRAWN: <i>E. Drury</i> 3-16-77	SIZE: D
CHECK: <i>R. Kelly</i> 7-27-76	REV: M
APPD:	12342-001
SCALE: —	SHEET 8 OF 8



REVISIONS			
REV	ZONE	DESCRIPTION	APPROVAL & DATE
A		ENGINEERING RELEASE	J.FINN G.WREN
B		ADDED SCHEMATIC FOR 12392	PAM 8-6-74 G.WREN
C	D4	ADDED R6 THRU R11, A1, C11, C12.	BA/11 10-1-74
C1		PILOT RELEASE PER PCN9789	JDS 11-1-74
D		REVISED PER PCN 6042	CAN D.L. 11/2/74
E		REVISED PER PCN 6385	CAN D.L. 12/1/74
F		REVISED PER PCN 6431	CAN D.G. 12/1/74
G		REVISED PER PCN 6584	CAN D.G. 1/14/75
H		REVISED PER PCN 6814	CAN D.L. 1/15/75
J		REVISED PER PCN 7199	CAN D.G. 1/14/75
K		REVISED PER PCN 7395	CAN D.G. 1/16/75
L		REVISED PER PCN 7601	CAN D.G. 2/14/76
LI		PROD RELEASE PER ECN 11417	D.G. 2/14/76
M		INCORPORATE UECO 15098 PER ECO 13329 MI	CSJ MD4-1180

- ④ MOVE JUMPER FROM "OPEN" TERMINAL TO "AC/DC SHORT" FOR OFF LINE OPERATION.
- CAPACITANCE VALUES ARE IN MICROFARADS
 - RESISTANCE VALUES ARE IN OHMS, 1/W, 5%.
- ① TB2-2(ØB) IS JUMPED TO TB2-3 (240VAC/127VAC), TB2-4 (215VAC/115VAC) OR TB2-5 (190VAC/100VAC) DEPENDING ON LINE VOLTAGE.
- NOTES: UNLESS OTHERWISE SPECIFIED.

REF DES LAST USED	REF DES NOT USED
C13 E23	J1-J9
CR4 J13	J11, J12
R11 VR2	
K1 A4	P1-P9
FL1 P21	P11-P20
F1 TB2	TB1

MODEL NO. FIRST USE T-50	NEXT ASSY FIRST USE 12449 -	
UNLESS OTHERWISE SPECIFIED	DRAWN J.FINN 6/74	Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA
DIMENSIONS ARE IN INCHES	CHECK ADDIS 8-22-74	
TOLERANCES ON DECIMALS ANGLES	APPD APPD 7/1/74 5.4.74	
JXX ± JXX ±	FINISH	
PWR SUPPLY AND AMPLIFIER (SCHEMATIC)		C.C.
VP34		
MATERIAL	SCALE:	SIZE DWG NO. D 13329-001
SURFACE ROUGHNESS PER MIL-STD-10	DO NOT SCALE THIS DRAWING	WEIGHT
		REV SHEET 1 OF 1

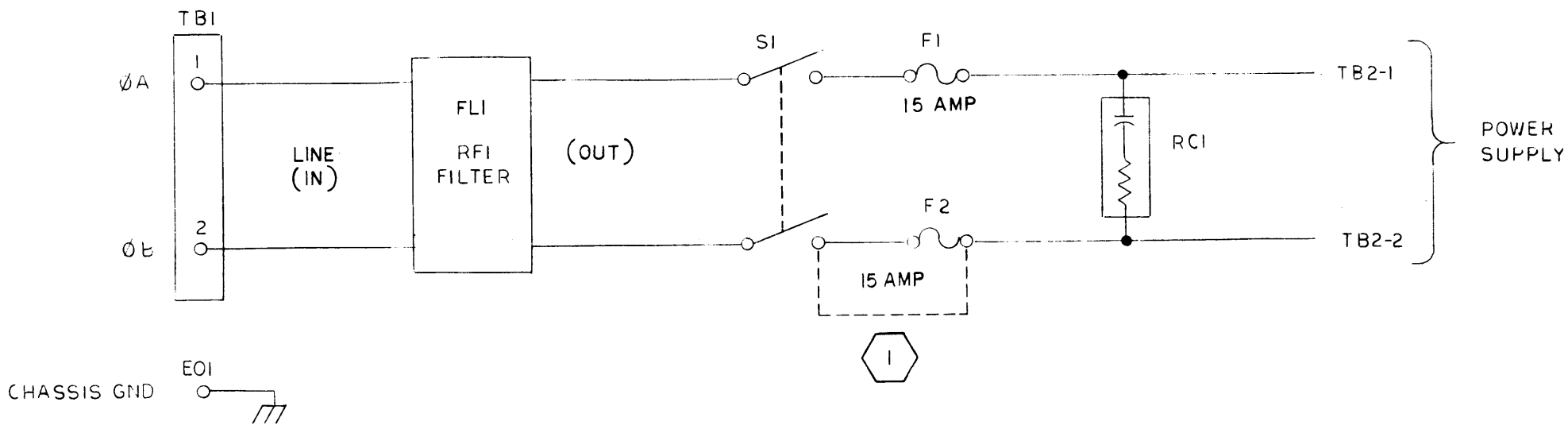
4

3

2

1

REVISIONS			
REV	ZONE	DESCRIPTION	INC BY APPROVAL & DATE
A		ENGINEERING RELEASE	JFINN 6/74
B		ADDED 15 AMP CALLOUT TO F1,F2; ADDED FLI,LINE (IN) & (OUT) CALLOUT TO RFI FILTER; ADDED NOTE ①; NEXT ASSY WAS, I249 001.	D.L. 8/8/75
BI		PROD RELEASE PER ECN 10654	D.G. 9/4/75



D

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D

C

B

A

REV B1
DWG NO. 13343-001

MODEL NO. FIRST USE	T-50	NEXT ASSY FIRST USE	13372
UNLESS OTHERWISE SPECIFIED	DRAWN J FINN 6/74	Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
DIMENSIONS ARE IN INCHES	CHECK		
TOLERANCES ON	APPD 8/1/74	A.C. INPUT CONTROL (SCHEMATIC)	
DECIMALS	APPD 8/8/75		
XXX ±	FINISH	C.C.	
	MATERIAL	SCALE:	SIZE C
	SURFACE ROUGHNESS PER MIL-STD-10	DWG NO. 13343-001	REV B1
		DO NOT SCALE THIS DRAWING	WEIGHT
			SHEET 1 OF 1

① F1, F2 FOR LINE TO LINE 13372-001 F1 ONLY FOR LINE TO NEUTRAL 13372-002.

4

3

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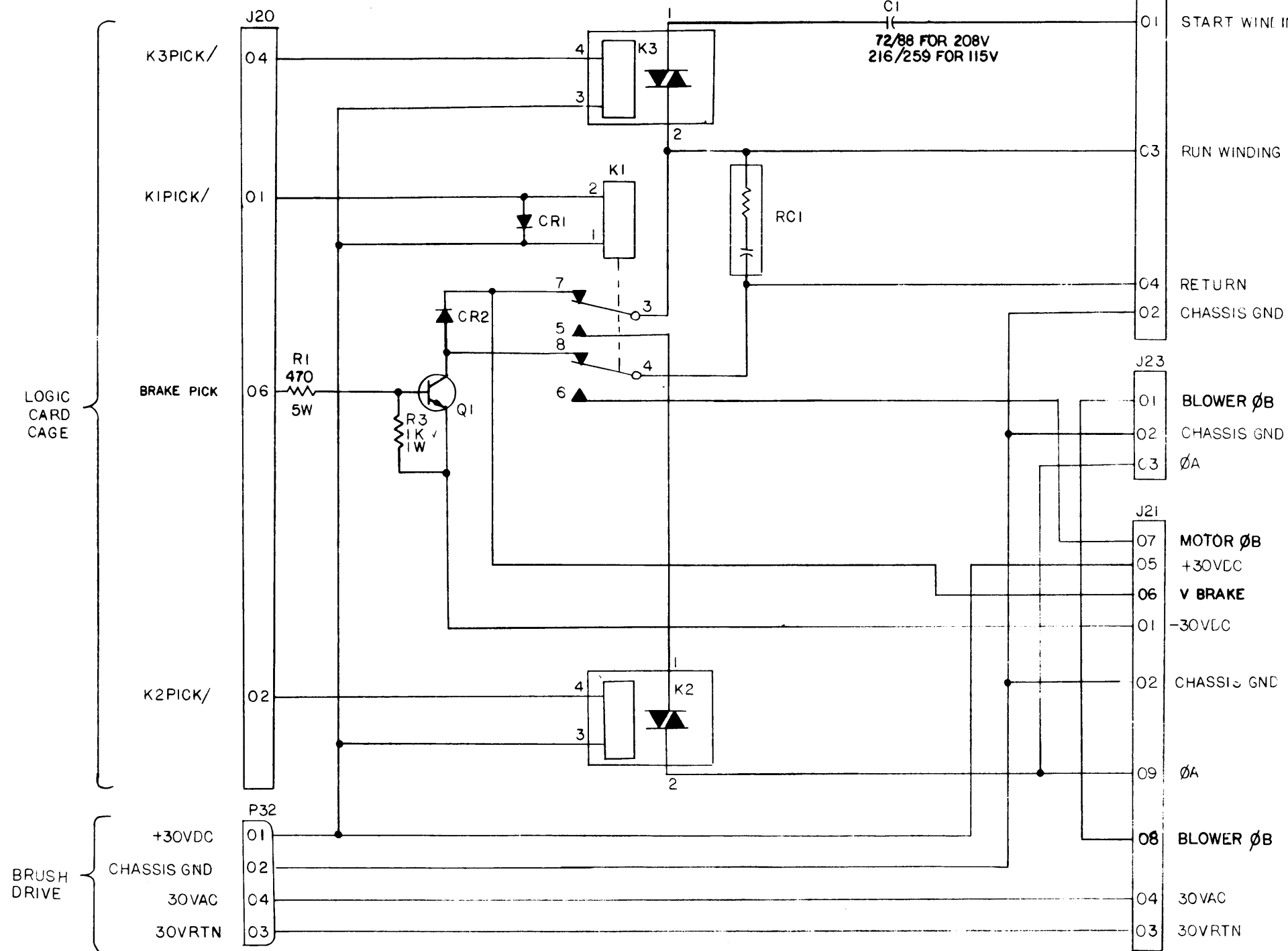
4

3

2

1

REVISIONS			
REV	ZONE	DESCRIPTION	APPROVAL & DATE
A		ENGINEERING RELEASE	B. Mooney 8/28/74
B		DELETED R1,200 & R2,200; P32, 01 WAS P32, 06 N/A WAS: 13391-001 ADDED RC2 & RC3 ADDED R1,2K,1W	11/15/75
C		IS: J20-06 BRAKE PICK, WAS: J20-06 BRAKE	D.L. 10/27/75
D		J23-01 TO J21-08 WAS TO J21-07	D.G. 8/5/75
D1		PROD RELEASE PER ECN 10654	D.G. 7/11/75
D2		REV PER RECORD CHG ECN 11126	JEN 4/11/75
E		REVISED PER ECO 12077	6/28/75
F		Changed wattage of R3 from 1/4W to 1W per ECO 13577	1/16/76



SPINDLE MOTOR

BLOWER MOTOR

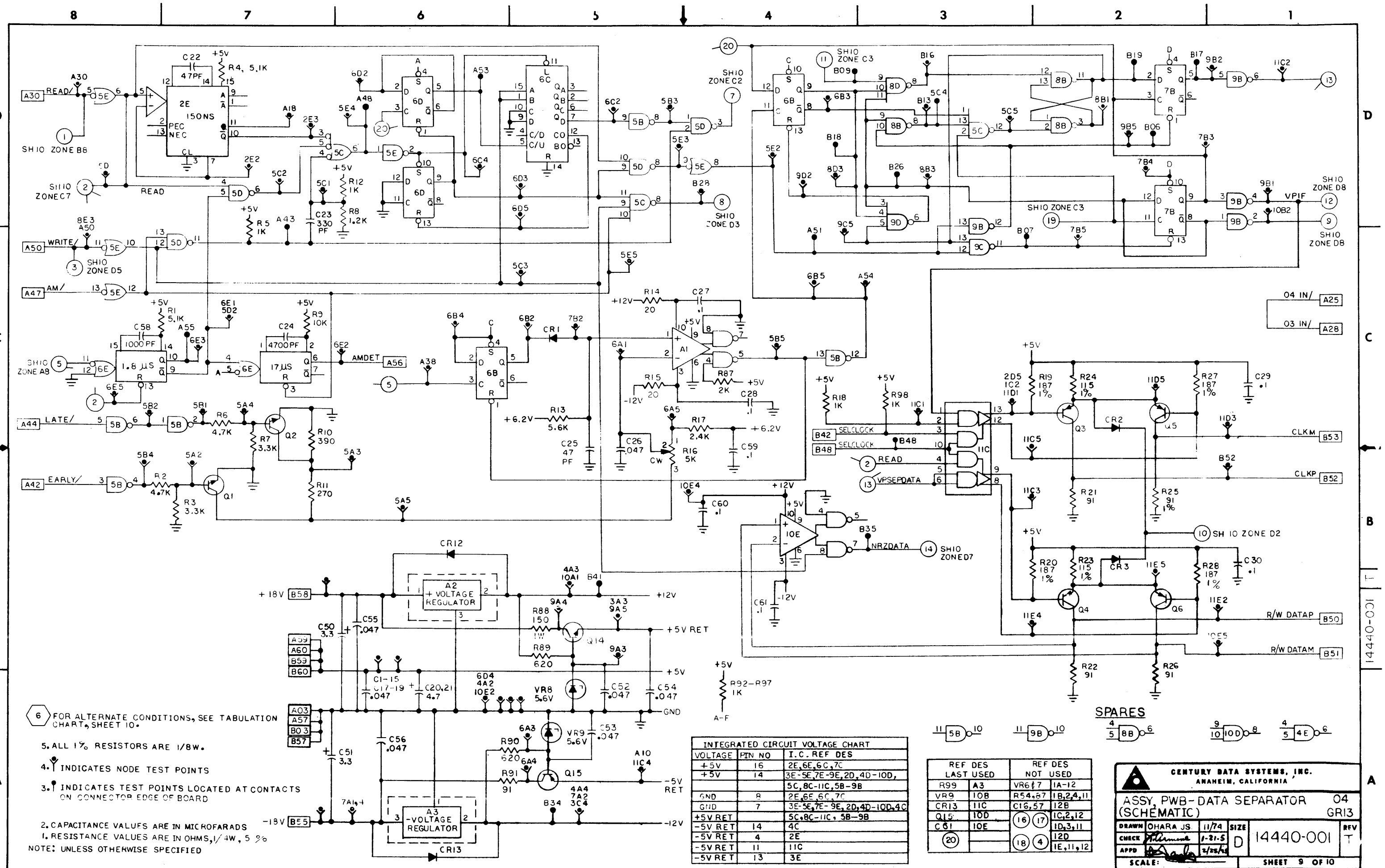
POWER SUPPLY

REF DES LAST USED	REF DES NOT USED
C1 P32	J1-J19
CR2 R3	PI-P31
J23 RC1	R2
K3	

MODEL NO. FIRST USE	T-50	NEXT ASSY FIRST USE	12452
UNLESS OTHERWISE SPECIFIED	DRAWN B. Mooney 8/28/74	Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
DIMENSIONS ARE IN INCHES	CHECK Miller 9/6/74		
TOLERANCES ON DECIMALS ANGLES	APPD [signature] 8/28/74		
JXX ± — ± —	FINISH [signature] 8/28/74	SCHEMATIC-RELAY ASSY.	
MATERIAL	SCALE:	SIZE DWG NO.	REV
SURFACE ROUGHNESS PER MIL-STD-10	DO NOT SCALE THIS DRAWING	D 13394-001	F
	WEIGHT	SHEET / OF /	

- 3. RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITION.
- 2 CAPACITANCE VALUE ARE IN MICROFARADS.
- 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5% .

NOTE: UNLESS OTHERWISE SPECIFIED.



FOR ALTERNATE CONDITIONS, SEE TABULATION CHART, SHEET 10.

- 5. ALL 1% RESISTORS ARE 1/8W.
 - 4. INDICATES NODE TEST POINTS
 - 3. INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS
 - 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
- NOTE: UNLESS OTHERWISE SPECIFIED

VOLTAGE	PIN NO	I.C. REF	DES
+5V	16	2E, 6E, 6C, 7C	
+5V	14	3E-5E, 7E-9E, 2D, 4D-10D,	
		5C, 8C-11C, 5B-9B	
GND	8	2E, 6E, 6C, 7C	
GND	7	3E-5E, 7E-9E, 2D, 4D-10D, 4C	
+5V RET		5C, 8C-11C, 5B-9B	
-5V RET	14	4C	
-5V RET	4	2E	
-5V RET	11	11C	
-5V RET	13	3E	

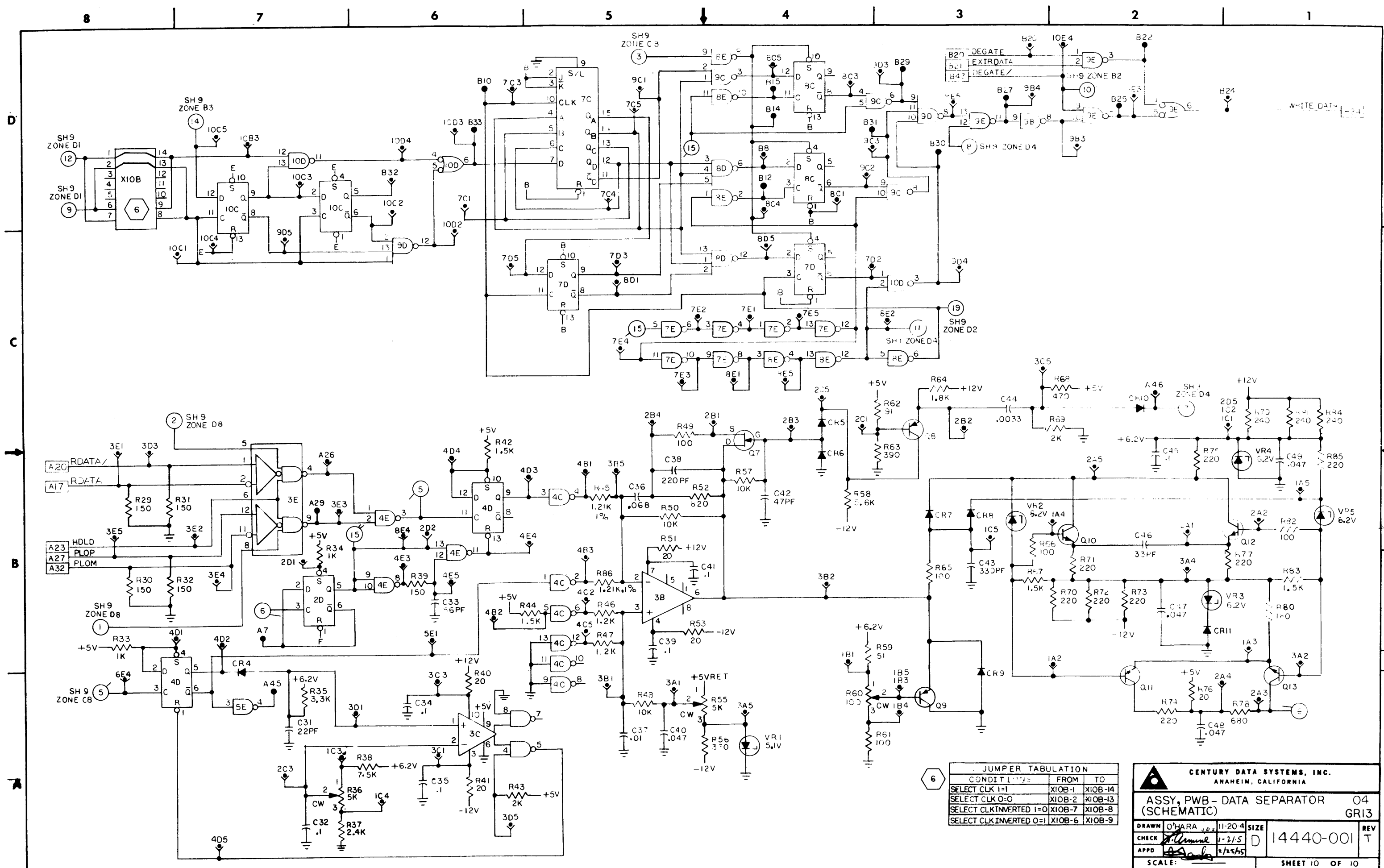
REF DES	LAST USED	REF DES	NOT USED
R99	A3	VR6	7 IA-12
VR9	10B	R54, 57	1B, 2, 4, 11
CR13	11C	C16, 57	12B
Q15	10D	(16) (17)	1C, 2, 12
C61	10E	(18) (4)	1D, 3, 11
			1E, 11, 12

CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

ASSY, PWB-DATA SEPARATOR (SCHEMATIC) 04 GR13

DRAWN OHARA JS 11/74 SIZE D 14440-001 REV
 CHECK [Signature] 1-21-5
 APPD [Signature] 2/25/75

SCALE: SHEET 9 OF 10



6

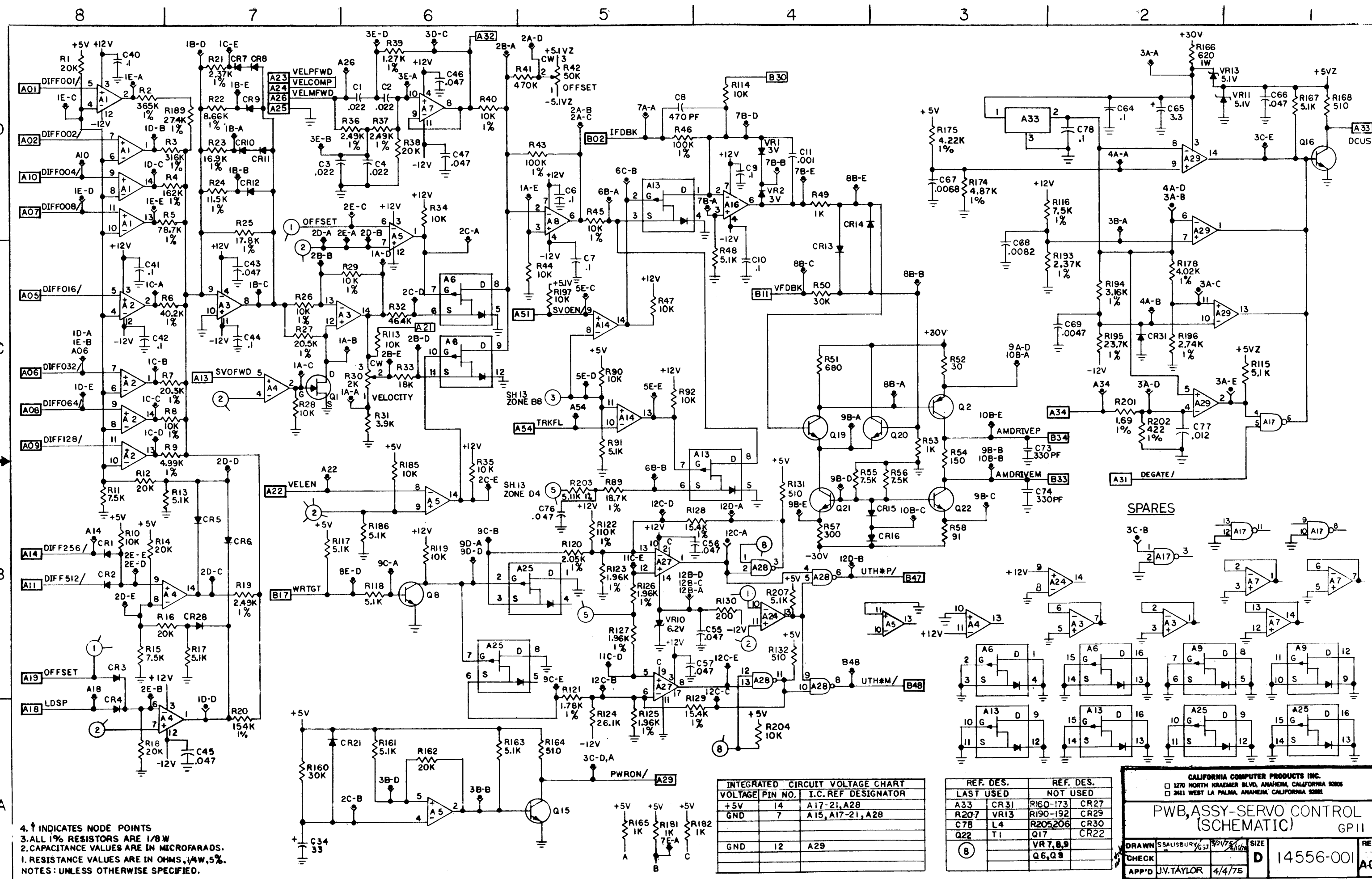
JUMPER TABULATION		
CONDITIONS	FROM	TO
SELECT CLK I=1	XIOB-1	XIOB-14
SELECT CLK O=0	XIOB-2	XIOB-13
SELECT CLK INVERTED I=0	XIOB-7	XIOB-8
SELECT CLK INVERTED O=1	XIOB-6	XIOB-9

CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

ASSY, PWB - DATA SEPARATOR 04
(SCHEMATIC) GR13

DRAWN O'HARA	11-20-4	SIZE	D 14440-001	REV T
CHECK <i>[Signature]</i>	1-21-5			
APPD <i>[Signature]</i>	2/23/5			

SCALE: SHEET 10 OF 10



4. † INDICATES NODE POINTS
 3. ALL 1% RESISTORS ARE 1/8W
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
 NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A17-21, A28
GND	7	A15, A17-21, A28
GND	12	A29

REF. DES.	REF. DES.
LAST USED	NOT USED
A33	CR31
R207	VR13
C78	L4
Q22	T1
	VR7,8,9
	Q6, Q9

CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

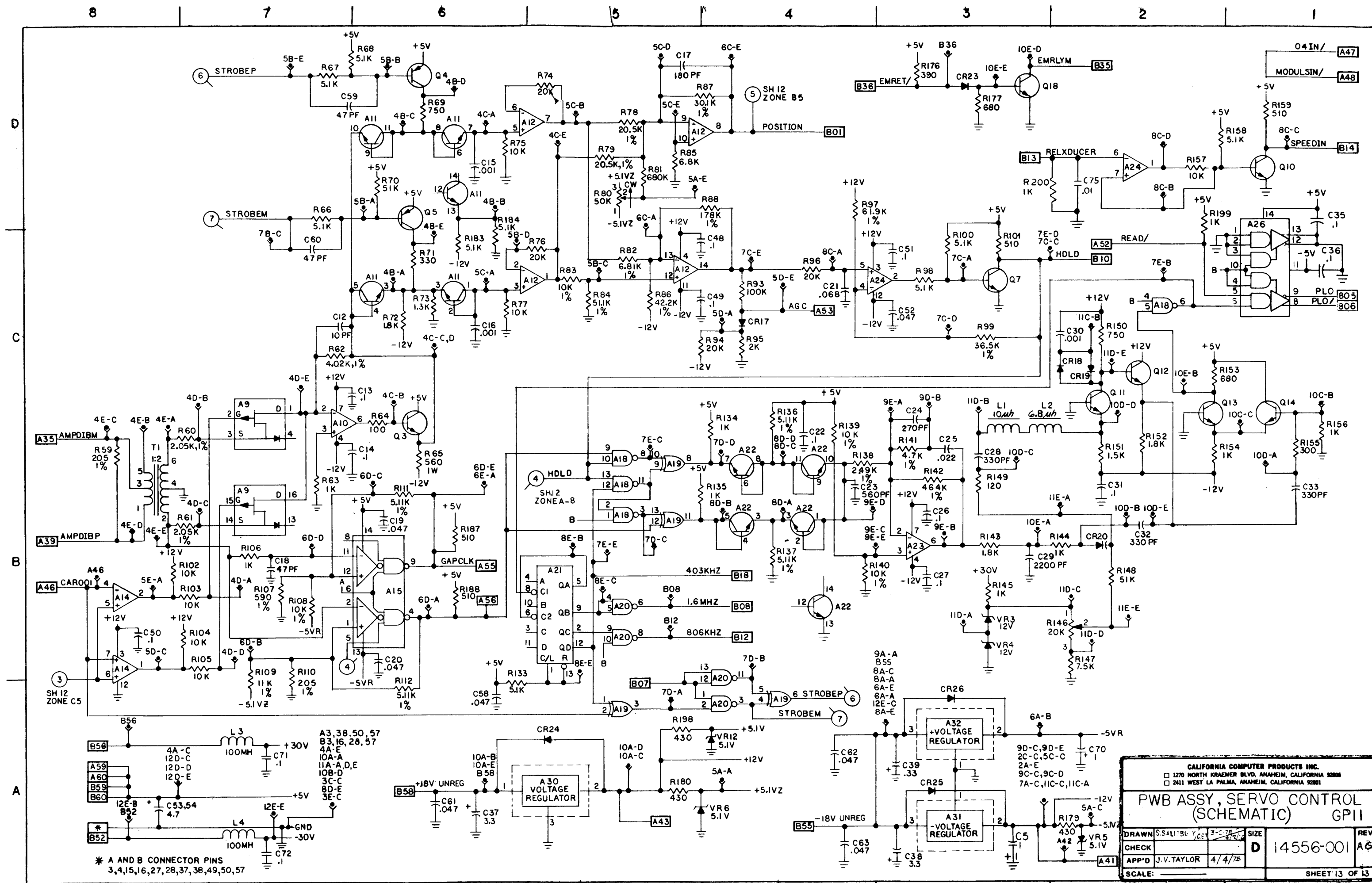
PWB, ASSY-SERVO CONTROL (SCHEMATIC) GPII

DRAWN: SSALISBURY/G31 8/21/75
 CHECK: J.V. TAYLOR 4/4/75
 APP'D: J.V. TAYLOR 4/4/75

SIZE: D 14556-001
 REV: AG

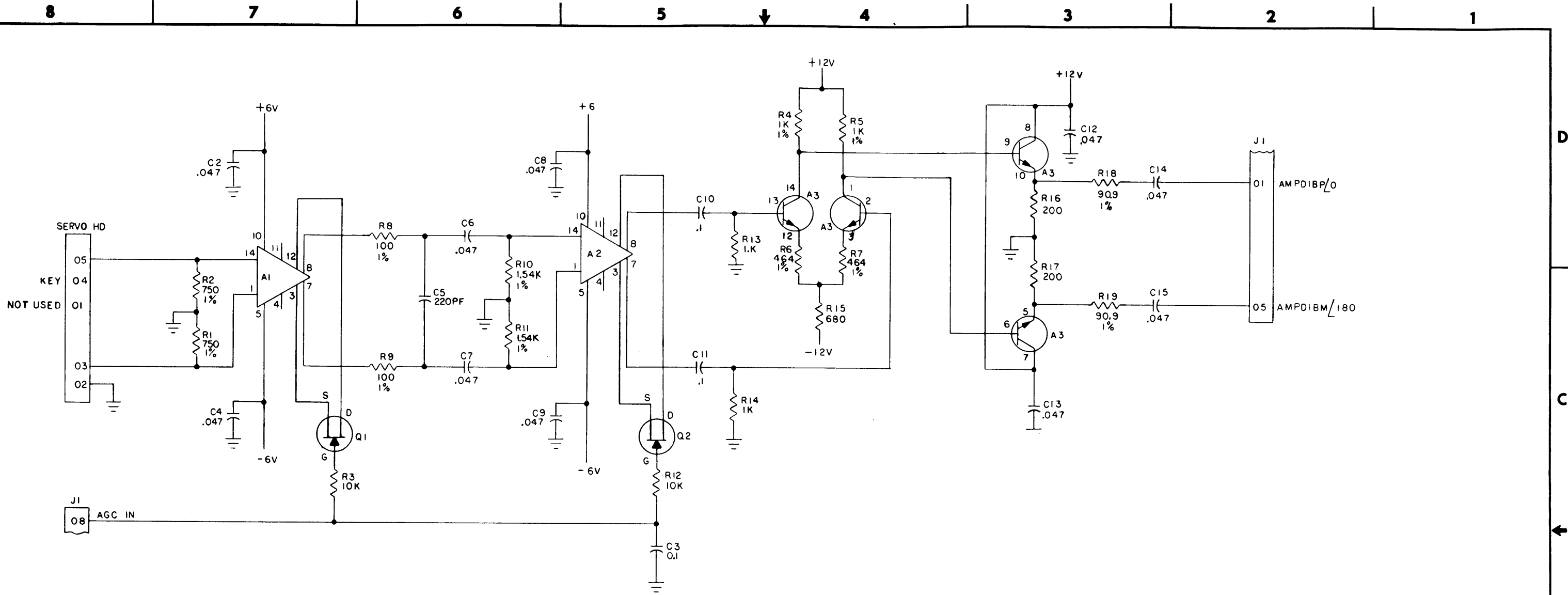
SCALE: SHEET 12 OF 13

14556-001 AG

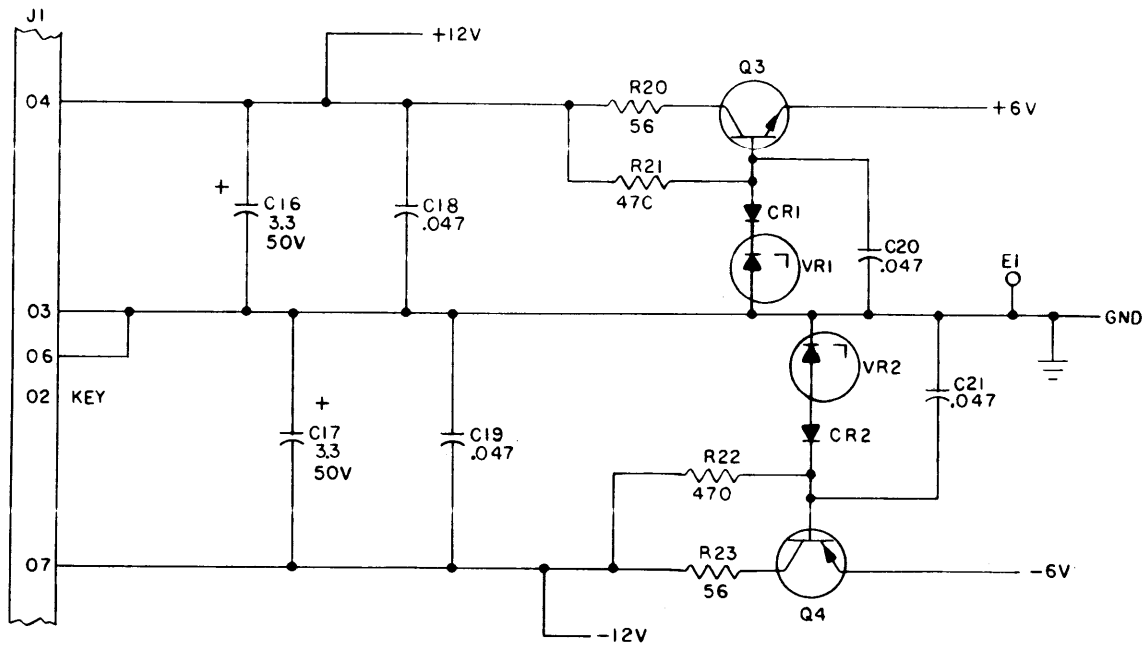


* A AND B CONNECTOR PINS
3, 4, 15, 16, 27, 28, 37, 38, 49, 50, 57

CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801			
PWB ASSY, SERVO CONTROL (SCHEMATIC) GPII			
DRAWN S.S. 11/81 CHECK APP'D J.V. TAYLOR 4/4/75	SIZE D	REV 14556-001 A6	SHEET 13 OF 13



3. ALL 1% RESISTORS ARE 1/8W
 2. CAPACITANCE VALUES ARE IN MICROFARADS
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W ± 5%
 NOTES: UNLESS OTHERWISE SPECIFIED.



REF DES	LAST USED	REF DES	NOT USED
A3		CR2	
C21		C1	
Q4			
R23			
VR2			
HD01			
J1			

Century Data
ANAHEIM, CALIFORNIA

PWB, ASSY-SERVO PREAMP (SCHEMATIC)
 VR61

DRAWN	NUMBER	12-20-75	SIZE		REV
CHECK			D	14912-001	N
APPD					

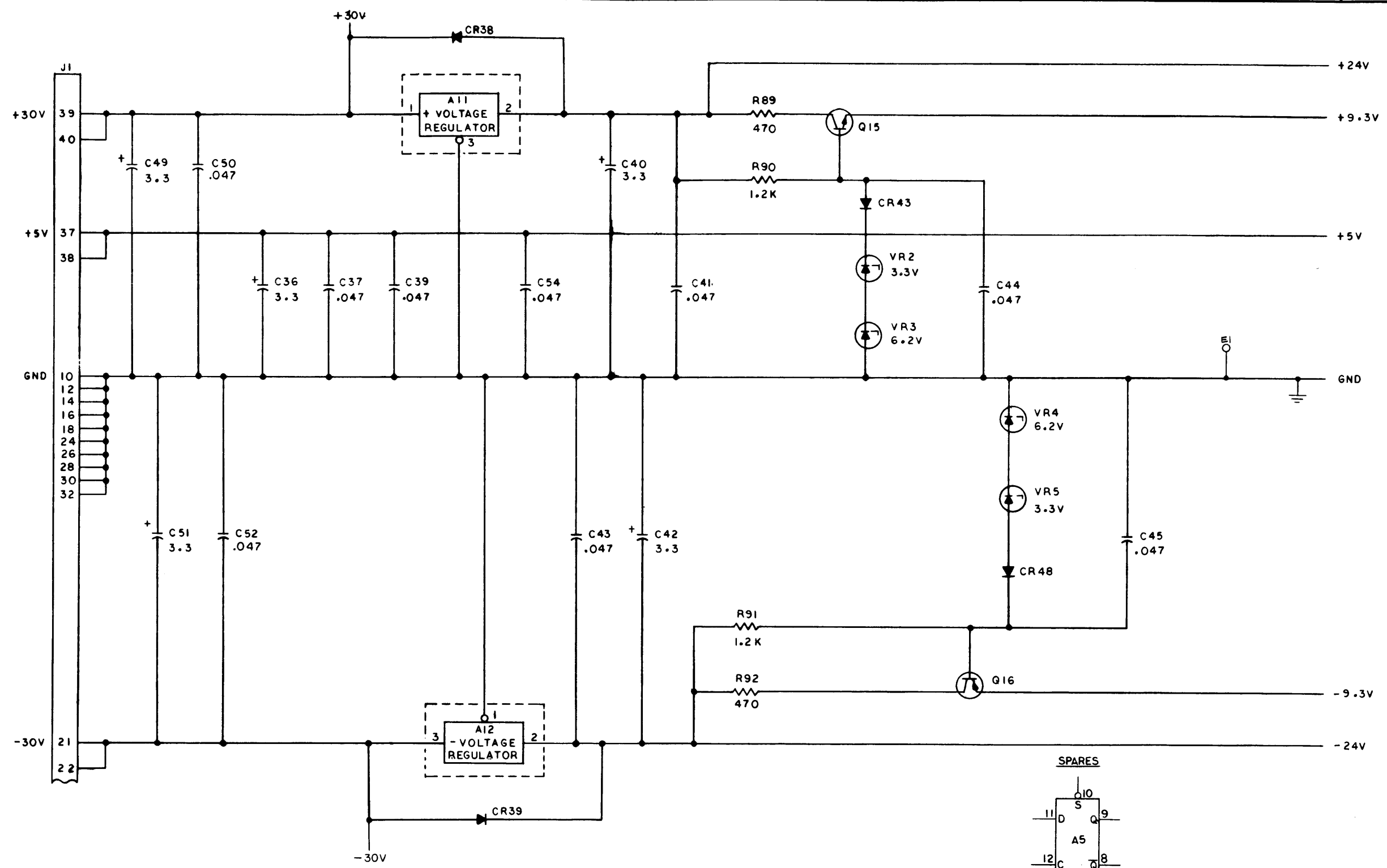
SCALE: _____ SHEET 6 OF 6

D

C

B

A



3. ALL 1% AND 0.1% RESISTORS ARE 1/8W.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.
 NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A2, A4, A5
+5V	16	A3
GND	7	A2, A4, A5
GND	8	A3

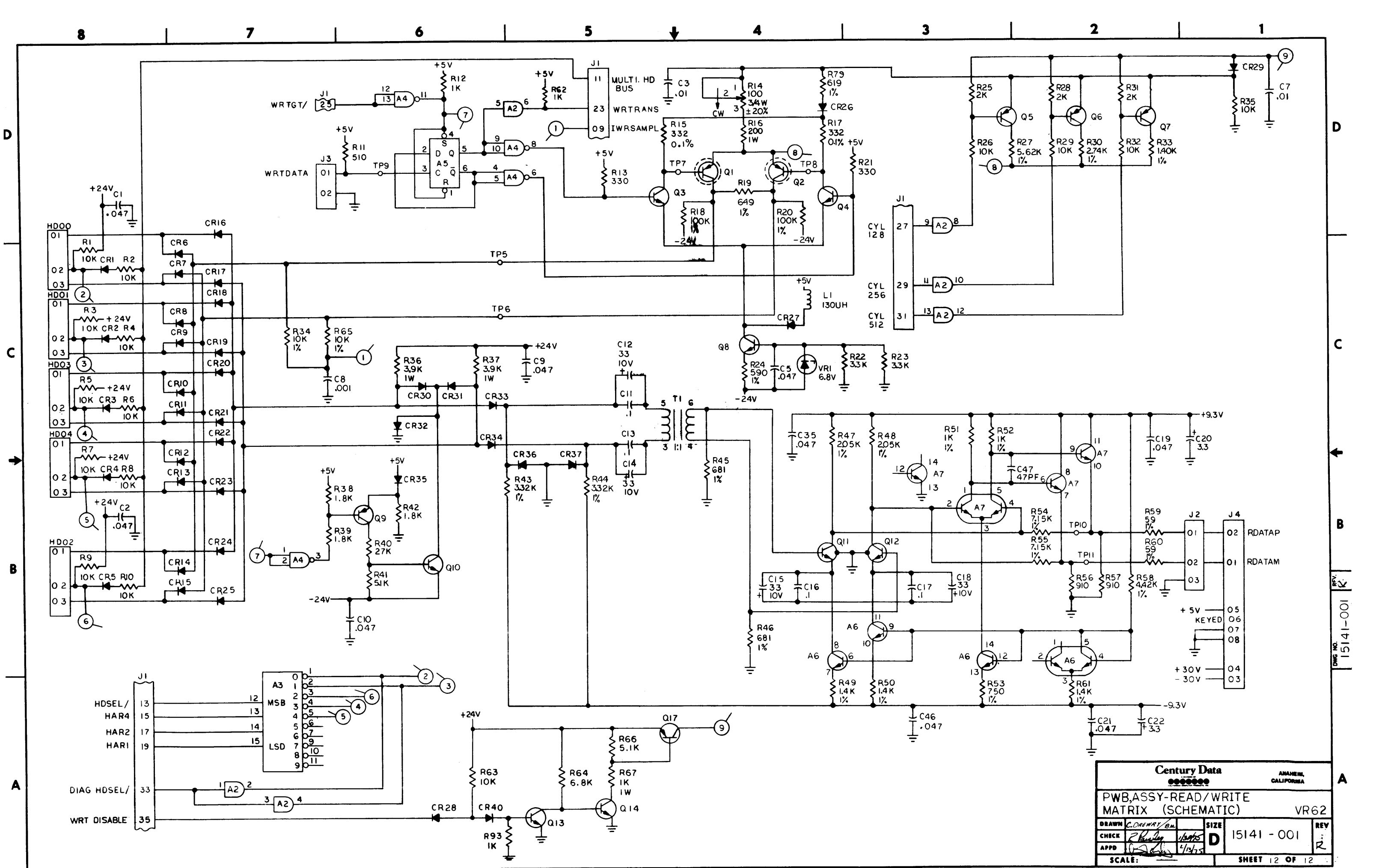
REF DES LAST USED	REF DES NOT USED
R93 HDO4	TPI-4 C4, C6
C54 TPI1	R68-R78 A1
CR48 J4	CR41, CR42 A8
Q17 VR5	A9
L1 TI	CR44-CR47 A10
A12 EI	C23-C34, C38 C48, C53
9	R80-R88

Century Data
ANAHEIM, CALIFORNIA

PWB ASSY READ/WRITE MATRIX (SCHEMATIC) VR62

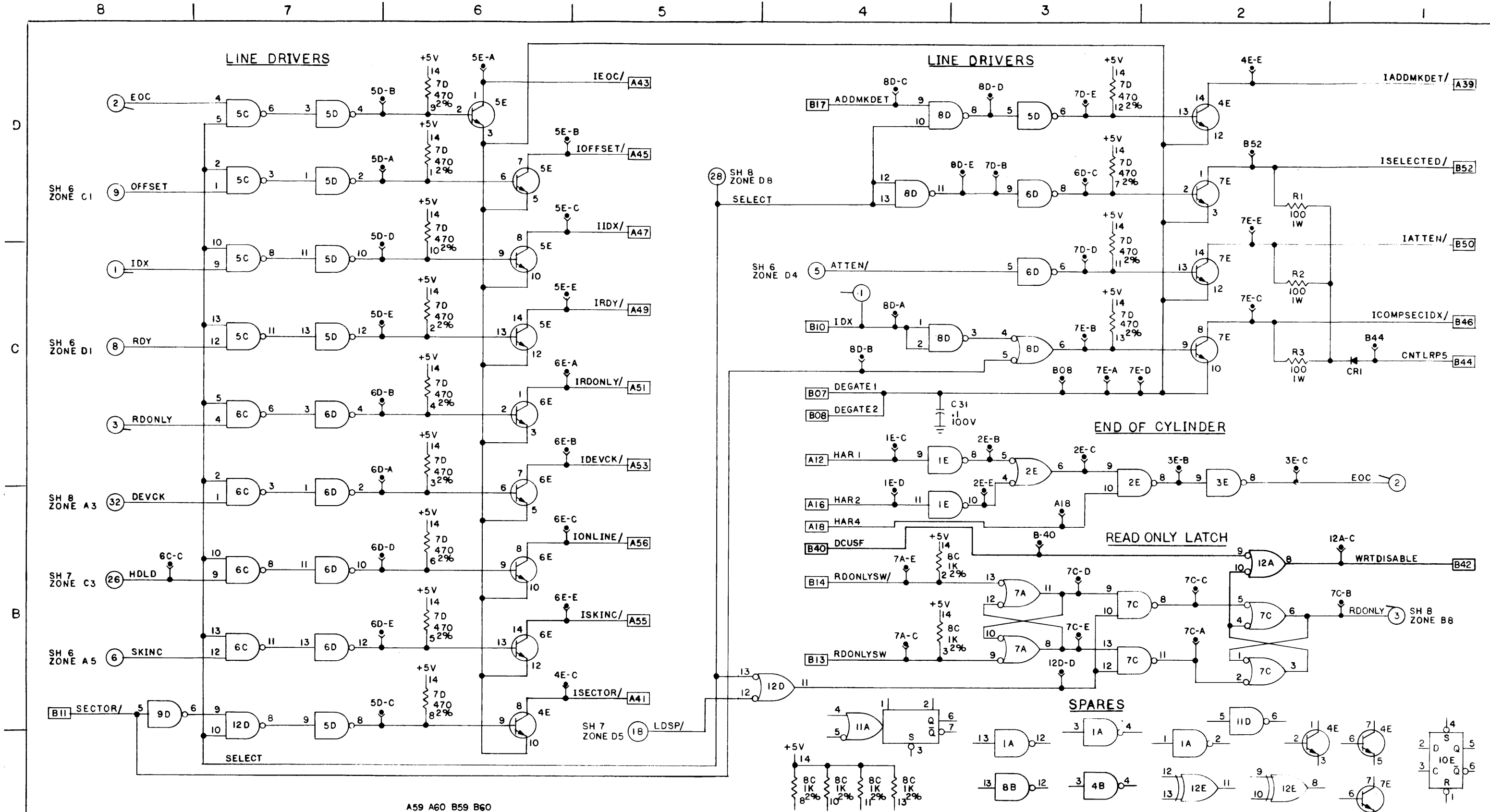
DRAWN <i>C. Dunning</i>	1/20/75	SIZE D	REV R
CHECK <i>R. B. [Signature]</i>	1/21/75	15141-001	
APPD <i>[Signature]</i>	1/21/75		

SCALE: _____ SHEET 11 OF 12



Century Data		ANAHEIM, CALIFORNIA	
PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR62			
DRAWN	C. DREWARY/B.M.	SIZE	D 15141-001
CHECK	R. HENNING	REV	2
APPD	G. S. ...	SHEET 12 OF 12	

REV. NO. 15141-001

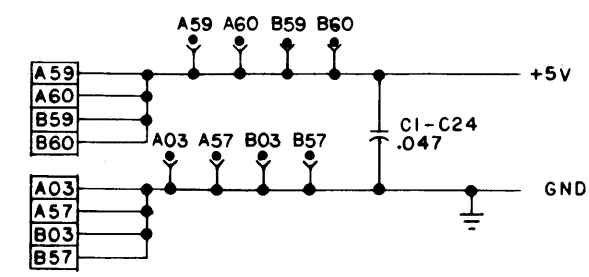


3. \uparrow INDICATES NODE TEST POINTS.

2. CAPACITANCE VALUES ARE IN MICROFARADS.

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.

NOTES: UNLESS OTHERWISE SPECIFIED.



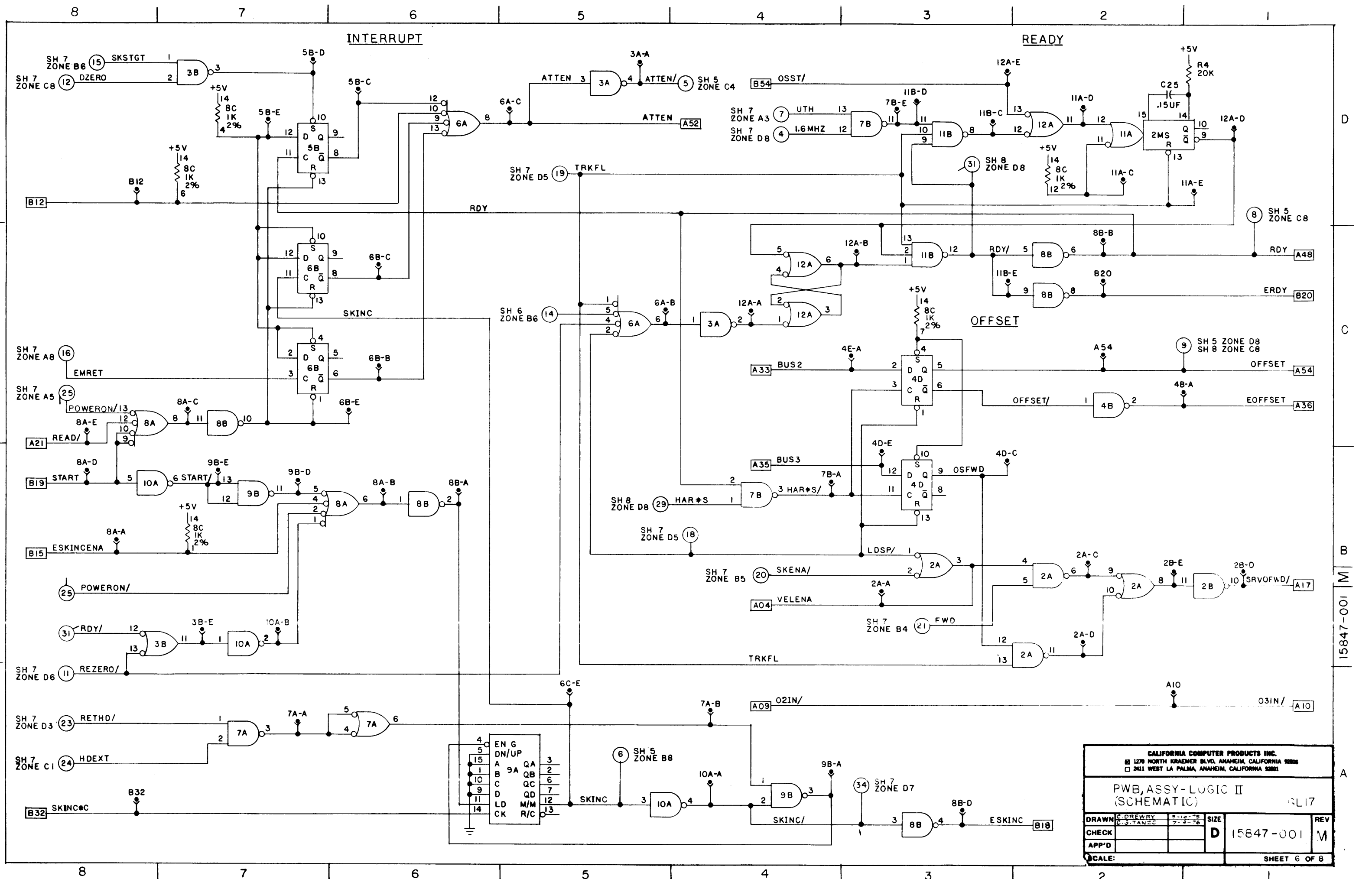
INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	16	9A, 11A, 9E, 11E
+5V	14	1A-8A, 10A, 12A, 2B-12B, 1C-7C, 9C-12C, 1E-3E, 10E, 12E, 1D-6D, 8D-12D
GND	8	9A, 11A, 9E, 11E
GND	7	1A-8A, 10A, 12A, 2B-12B, 1C-7C, 9C-12C, 1D-6D, 8D-12D, 1E-3E, 10E, 12E

REF. DES LAST USED	REF. DES NOT USED
12A	
12B	1B
12C	C26-28
12D	8E
12E	R5-7
C31	(9)
R9, CRI	
(36)	

CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB, ASSY-LOGIC II (SCHEMATIC) GL17

DRAWN	C. DREWRY	5-15-75	SIZE		REV
CHECK	C.G. TANZU	7-8-76	D	15847-001	M
APP'D					
SCALE:					SHEET 5 OF 5



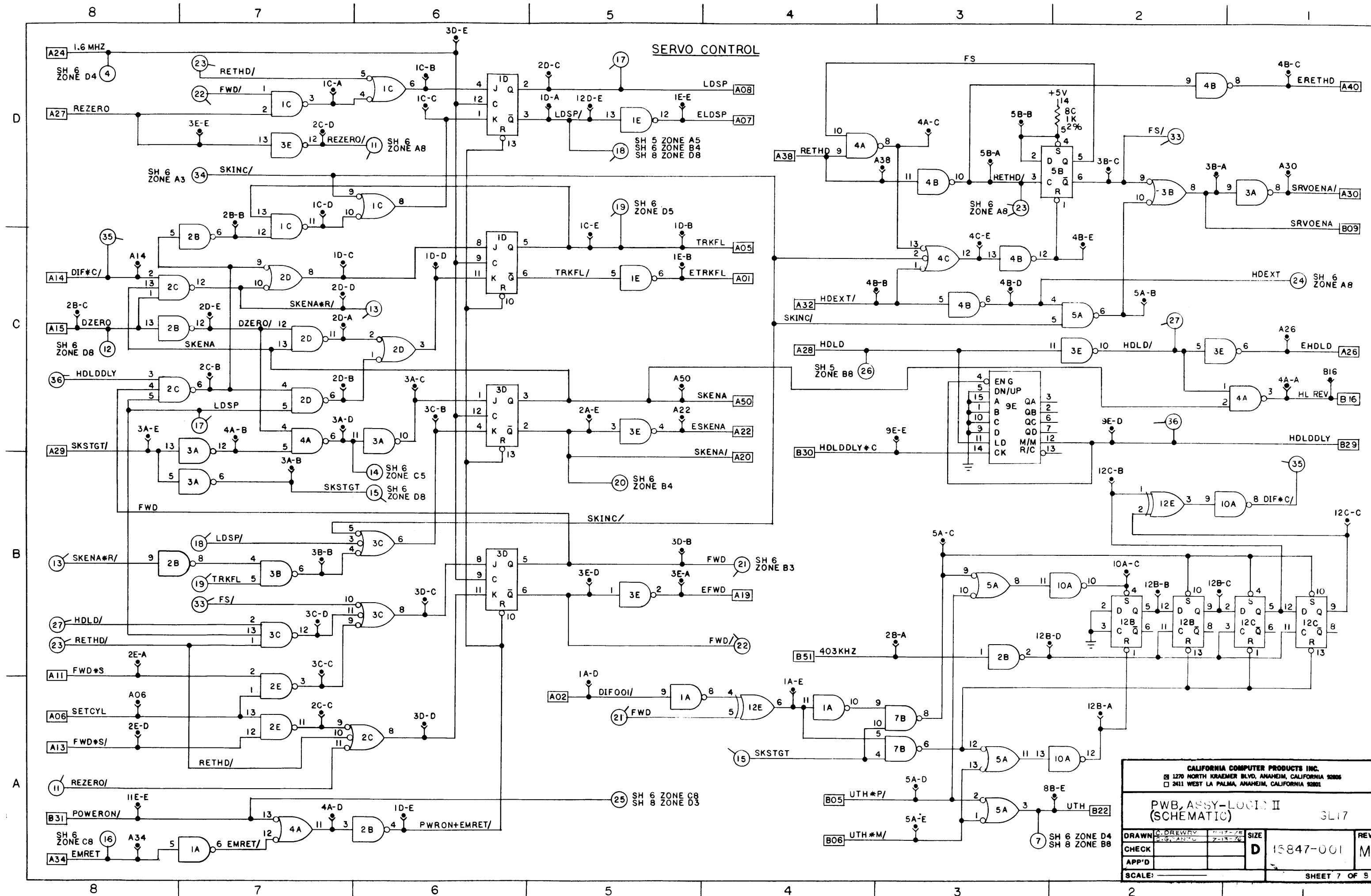
4	EN	3	QA
5	DN/UP	2	QB
15	A	9A	QC
1	B	9B	QD
10	C	12	M/M
9	D	13	R/C
11	LD		
14	CK		

CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB, ASSY-LOGIC II
 (SCHEMATIC) GL17

DRAWN	C. DREWRY	5-10-75	SIZE		REV
CHECK	C. J. TANZC	7-3-76	D	15847-001	M
APP'D					
SCALE:					SHEET 6 OF 8

15847-001 M

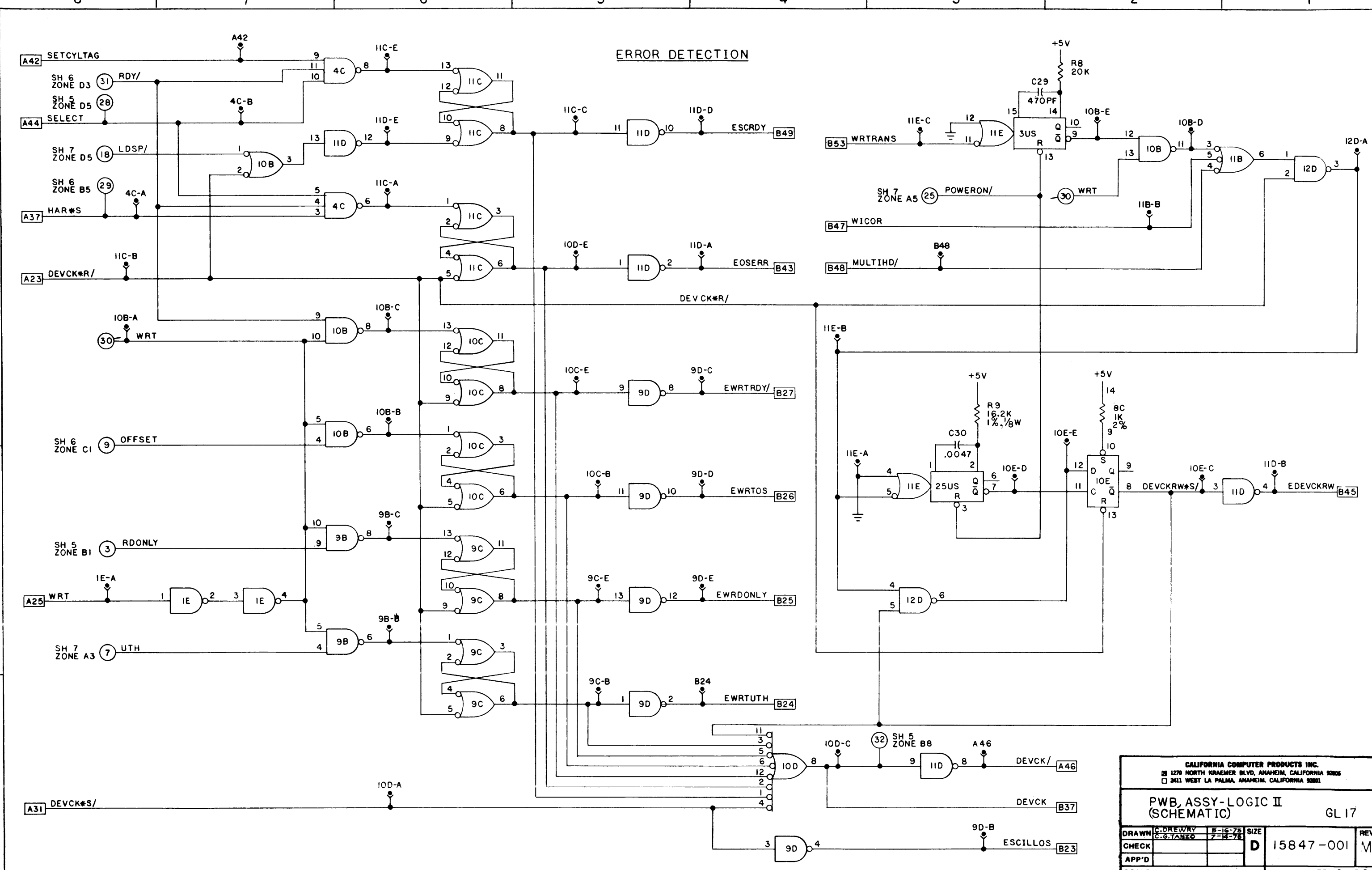


CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

**PWB, ASSY-LOGIC II
 (SCHEMATIC)** GL17

DRAWN	C. DREWRY	DATE	7-18-76	SIZE	D
CHECK					15847-001
APP'D					M
SCALE					SHEET 7 OF 9

ERROR DETECTION



CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB, ASSY-LOGIC II (SCHEMATIC) GL 17

DRAWN	C. DREWRY	B-16-75	SIZE	REV
CHECK	C. G. TANZO	7-14-78	D	15847-001 M
APP'D				
SCALE:				SHEET 8 OF 8

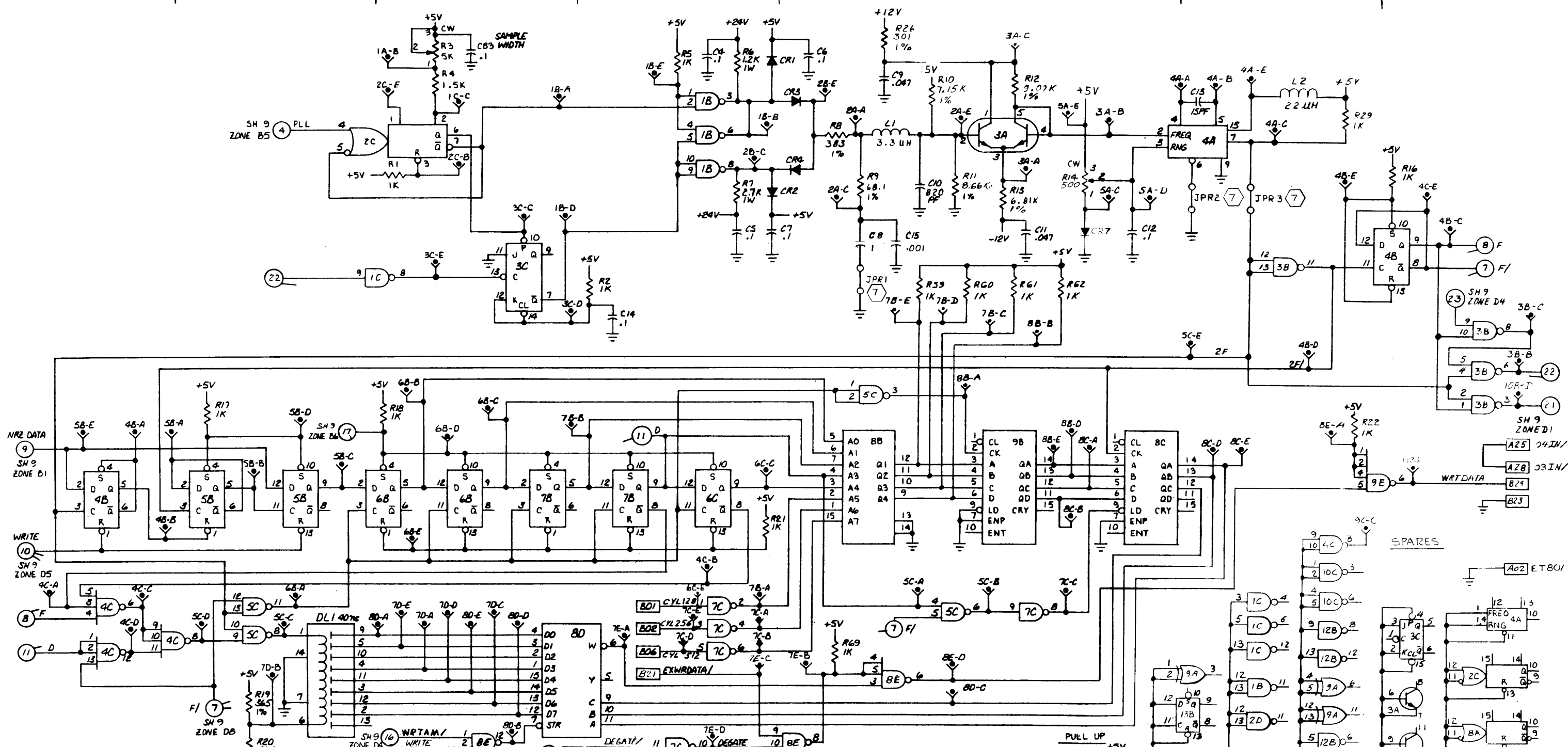
D

C

B

A

15847-001 M



- RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 - CAPACITANCE VALUES ARE IN MICROFARADS.
 - INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD.
 - INDICATES NODE TEST POINTS.
 - ALL 1% RESISTORS ARE 1/8W.
- NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DES
+5V	8	A1
+5V	14	6A, 7A, 9A, 10A, 1B, 3B-7B, 10B-13B, 1C, 4C-7C, 9C, 10C, 1D, 2D, 4D, 5D, 9D-12D, 1E, 4E, 5E, 7E-10E, A2, A3, 4A, 8A, 11A, 8B, 9B, 2C, 3C, 6C, 6D-8D, 6E
+5V	16	
GND	4	A1
GND	7	6A, 7A, 9A, 10A, 1B, 3B-7B, 10B-13B, 1C, 4C-7C, 9C, 10C, 1D, 2D, 4D, 5D, 9D-12D, 1E, 4E, 5E, 7E-10E, A2, A3, 4A, 8A, 11A, 8B, 9B, 2C, 3C, 6C, 6D-8D, 6E
GND	8	4A, 8A, 11A, 8B, 9B, 2C, 3C, 6C, 6D-8D, 6E

REF DES	LAST USED	REF DES	NOT USED
11A	DL1	1A, 2A	RG3
13B	CR7	5A, 3D	R34, 56
10C	E8	2B	C3, 16
12D	C11		R66
12E	R76		R2B
A6	TP9		R15
L2	(24)	(19)	CR5, 6
JPR3			RA1, 4, 5, 3

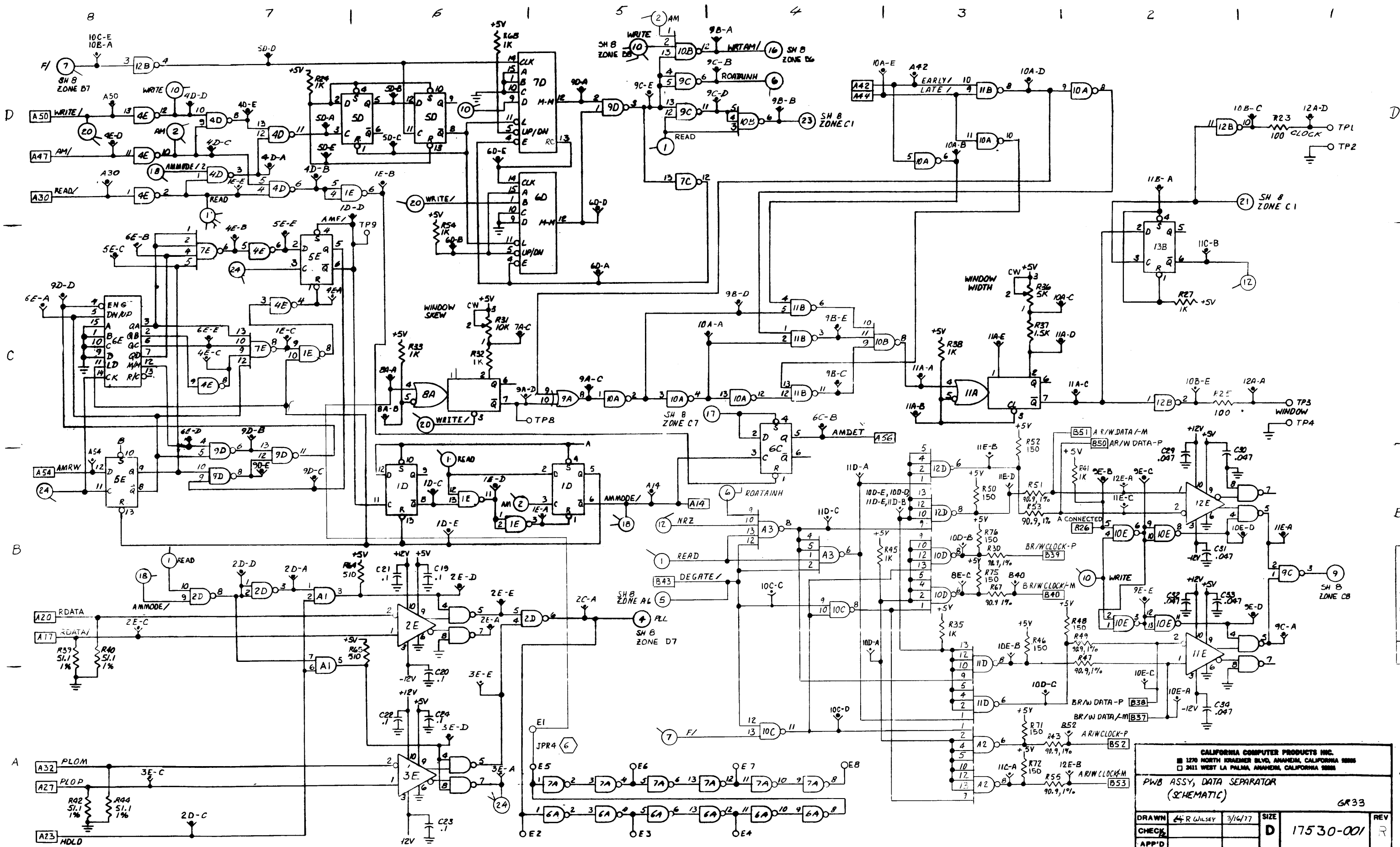
CALIFORNIA COMPUTER PRODUCTS INC.
 150 NORTH BRANDEIS BLVD, ANAHEIM, CALIFORNIA 92805
 3111 WEST LA PALMA, ANAHEIM, CALIFORNIA 92805

AWB ASSY, DATA SEPARATOR (SCHEMATIC)

6R 33

DRAWN	CG-TANZO 2-6-77	SIZE	D	REV	
CHECK				17530-001	9
APP'D					

SCALE: SHEET 8 OF 9



CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92816
 311 WEST LA PALMA, ANAHEIM, CALIFORNIA 92818

PWB ASSY, DATA SEPARATOR (SCHEMATIC) 6R33

DRAWN	44 R WILSEY	3/16/77	SIZE		REV
CHECK			D	17530-001	R
APP'D					
SCALE:					SHEET 9 OF 9

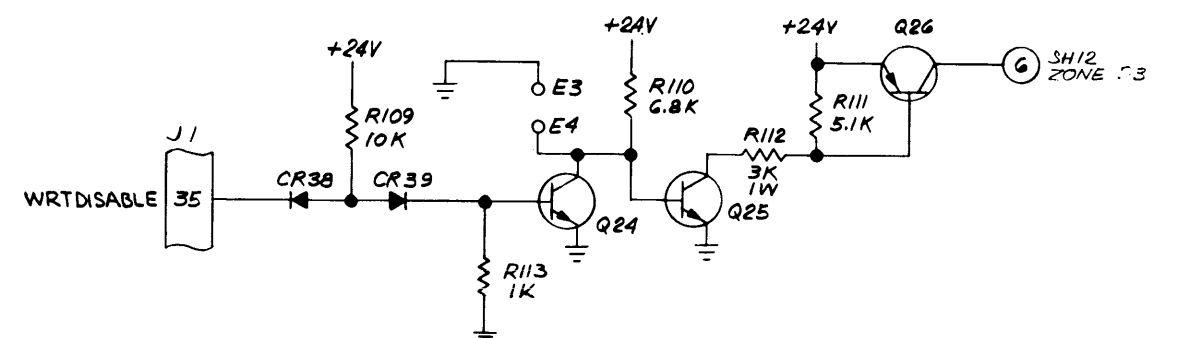
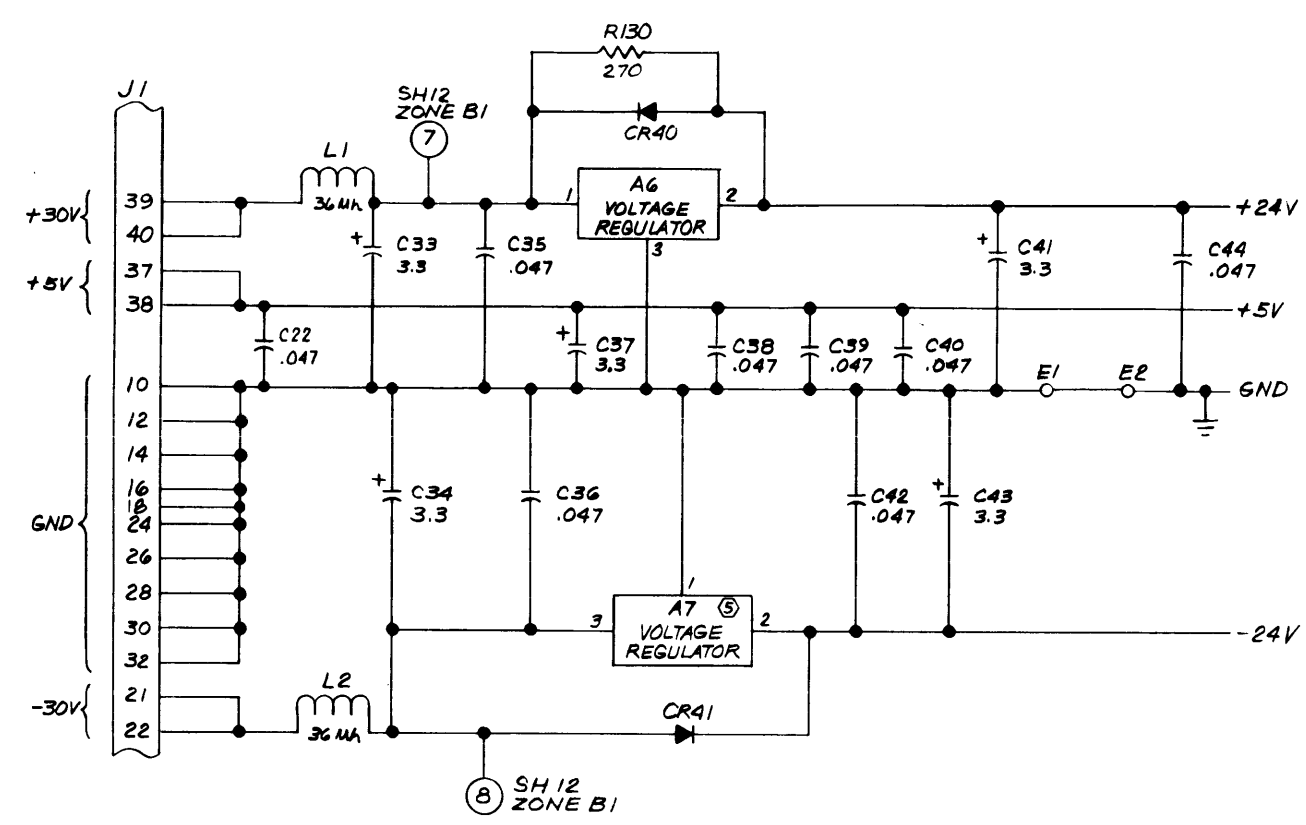
D

B

A

17530-001

REVISIONS		
REV	ZONE	DESCRIPTION



⑤ VALUE TO BE SELECTED IN TEST FROM 2.61K (90367-243), 3.65K (90367-292), 5.62K (90367-355), 11.5K (90367-125) OR OMIT. SELECT R129 FOR A HEAD WRITE CURRENT OF 84 MA. MIN., 892 MA. MAX. FLAT-TO-FLAT, AT CYL B14. IF A7 (ITEM 12) IS REPLACED, CHECK HEAD WRITE CURRENT AND RESELECT R129 IF REQUIRED.

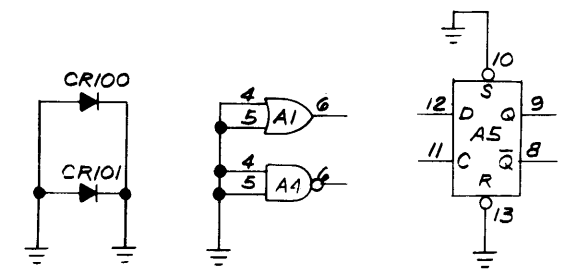
④ DIODES CR16-26, 29-31, 35-37 TO BE BATCH MATCHED, $\Delta V_f = 10\text{mV}$. FOR FIELD REPLACEMENT OF MATCHED DIODES, ITEMS 26 & 27, USE SPARE DIODES CR100 OR CR101, ITEM 29, FROM THE SAME PWB ASSY. WHEN CR100 AND CR101 ARE USED UP, FURTHER FIELD REPLACEMENT REQUIRES REPLACEMENT OF ALL DIODES, ITEMS 26, 27, 28 & 29 TO MAINTAIN MATCHING OF THE DIODES ON A GIVEN PWB ASSY.

3. ALL 1% RESISTOR ARE 1/8W.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4 W, 5%
 NOTES: UNLESS OTHERWISE SPECIFIED.

VOLTAGE	PIN NO.	I.C. REF. DESIGNATOR
+5V	14	A1, A2, A4, A5
+5V	16	A3
GND	7	A1, A2, A4, A5
GND	8	A3

REF. DES. LAST USED	REF. DES. NOT USED
A7 R131	
C47 TP11	CR28
CR101 HD04	Q1, B, 11
E4 L2	CR42-99
J4	
Q26	⑧

SPARES

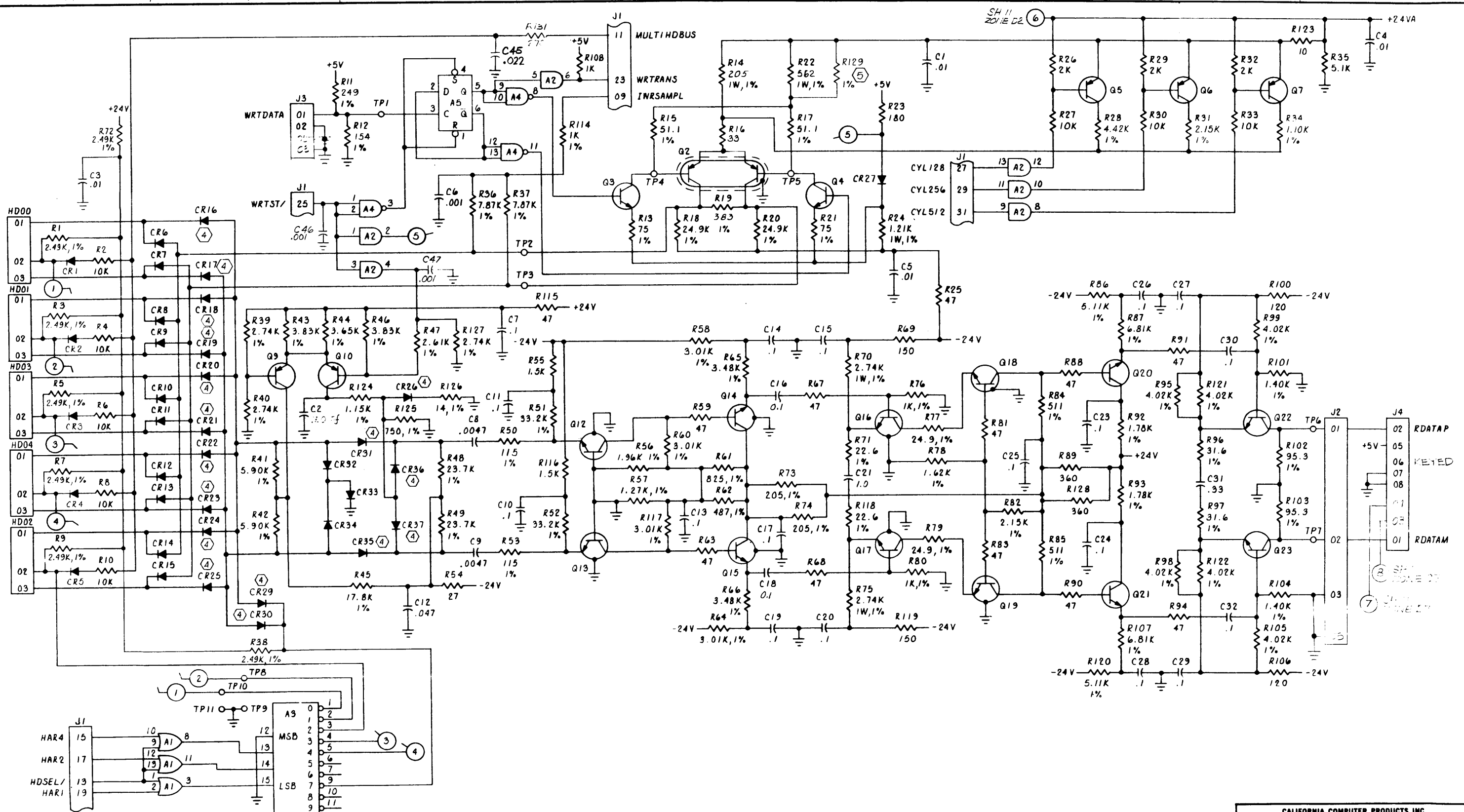


CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB ASSY, READ/WRITE MATRIX (SCHEMATIC) - VR89

SCALE:	SIZE		
	D	17589-001	M

C.G. TANZO 5/20/77 SHEET 11 of 12



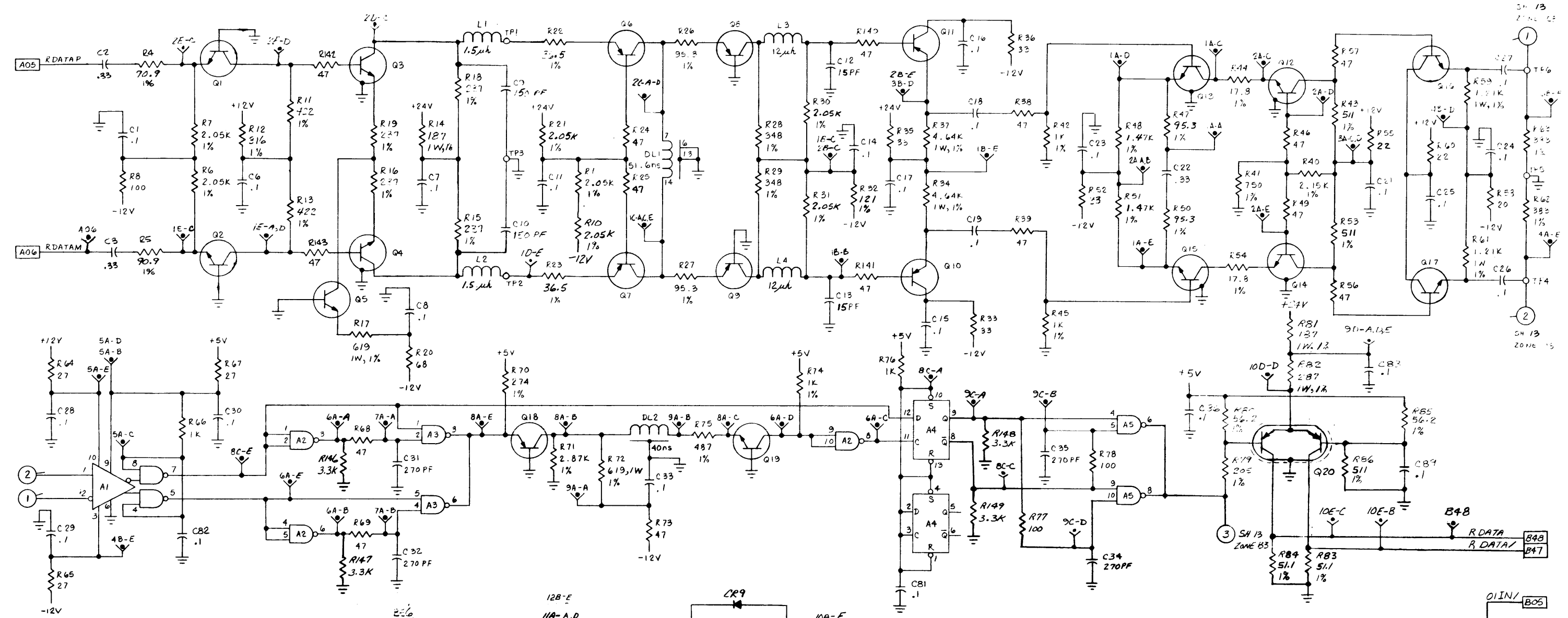
CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB ASSY, READ / WRITE
 MATRIX (SCHEMATIC) VR89

SCALE:	SIZE:	17589-001
NONE	D	

SHEET 12 of 12

17589-001

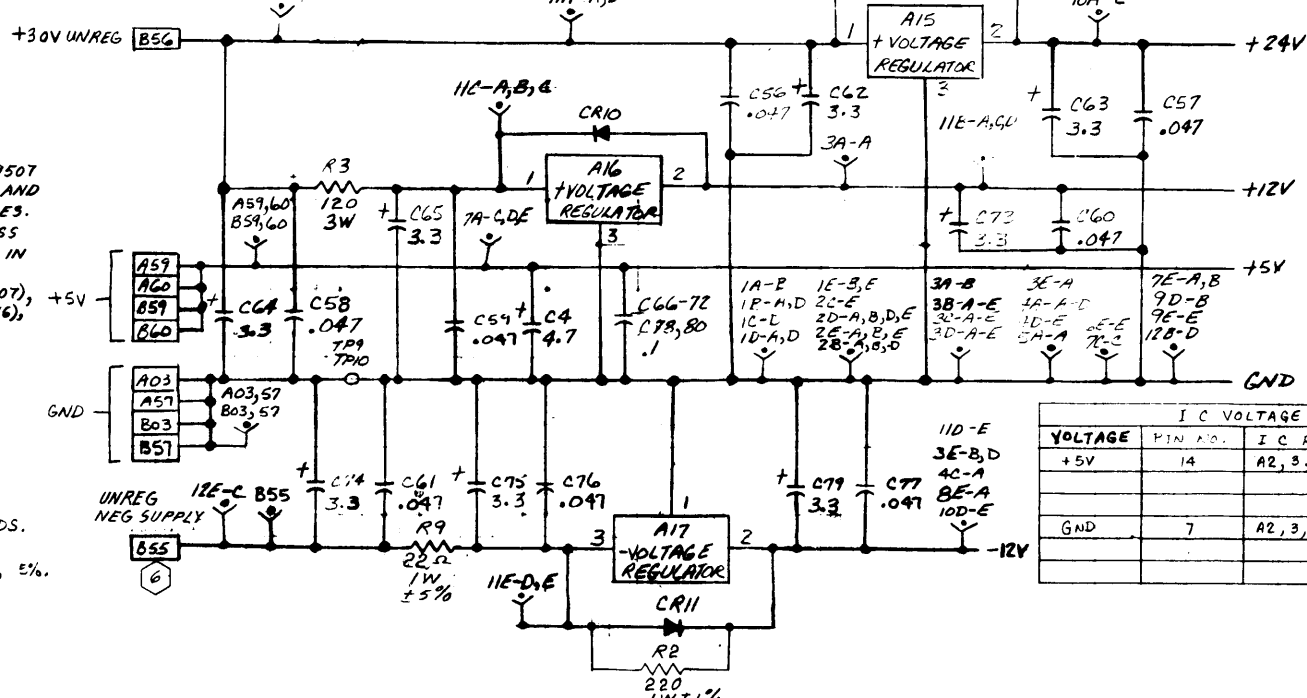


6 CONNECTED TO -30 VDC THRU DROPPING RESISTOR.

5 FOR RESISTOR SELECTION PROCESS SEE SPEC 1950T START SELECTION PROCESS WITH NO RESISTOR AND PROCEED THRU DECREASING RESISTANCE VALUES. IF A6 IS REPLACED ENTIRE SELECTION PROCESS MUST BE REPEATED. VALUE TO BE SELECTED IN TEST FROM 1K (90367-103), 562 (90367-354), 365 (90367-291), 274 (90367-249), 205 (90367-207), 169 (90367-179), 133 (90367-144), 110 (90367-116), 95.3 (90367-429) & 78.7 (90367-402).

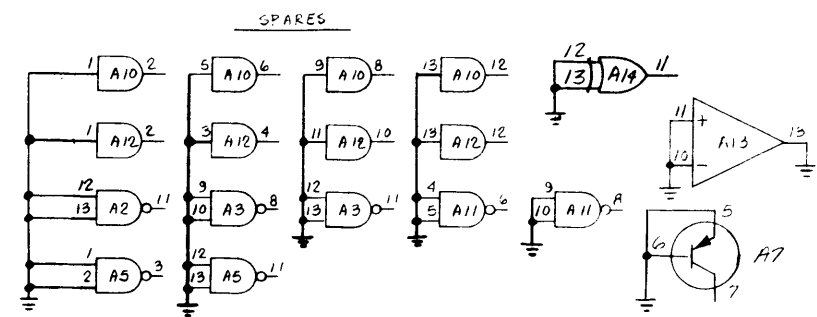
- A
- INDICATES NODE TEST POINT.
 - ALL 1% RESISTORS ARE 1/8W.
 - CAPACITANCE VALUES ARE IN MICROFARADS.
 - RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.

NOTE: UNLESS OTHERWISE SPECIFIED



I C VOLTAGE CHART		
VOLTAGE	PIN NO.	I C REF DESIGNATION
+5V	14	A2, 3, 4, 5, 10, 11, 12, 14
GND	7	A2, 3, 4, 5, 10, 11, 12, 14

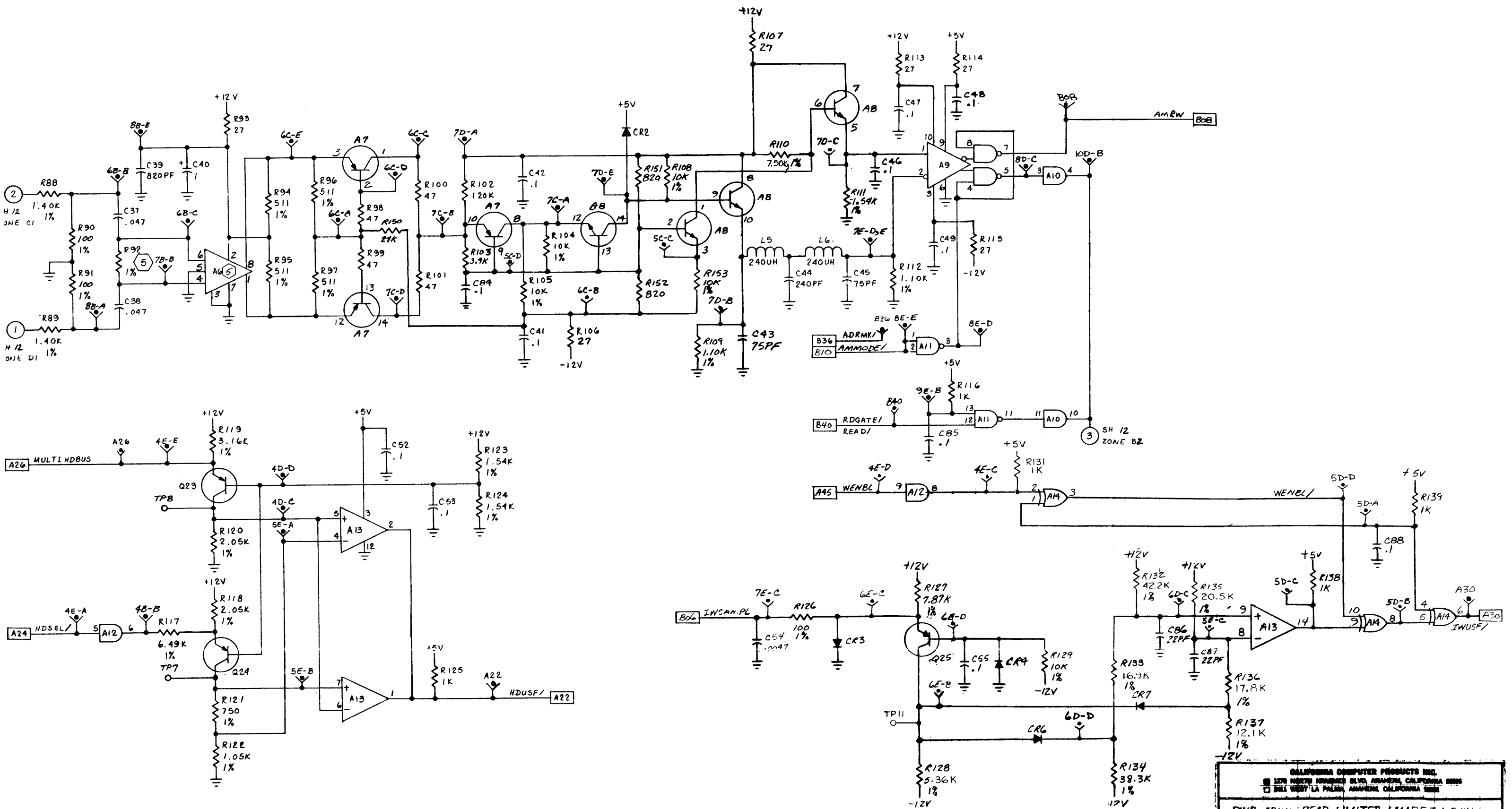
REF DES LAST USED		REF DES NOT USED	
C09	R153	C5, 20	CR1
Q25	DL2	C50-51	R87
Q41	A17	CR8	R144
A6		Q21, 22	R145
R11	(3)	CR5	R130



CALIFORNIA COMPUTER PRODUCTS INC.
 1220 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB ASSY, READ LIMITER / AMDET / R/W PROTECT (SCHEMATIC) GR38

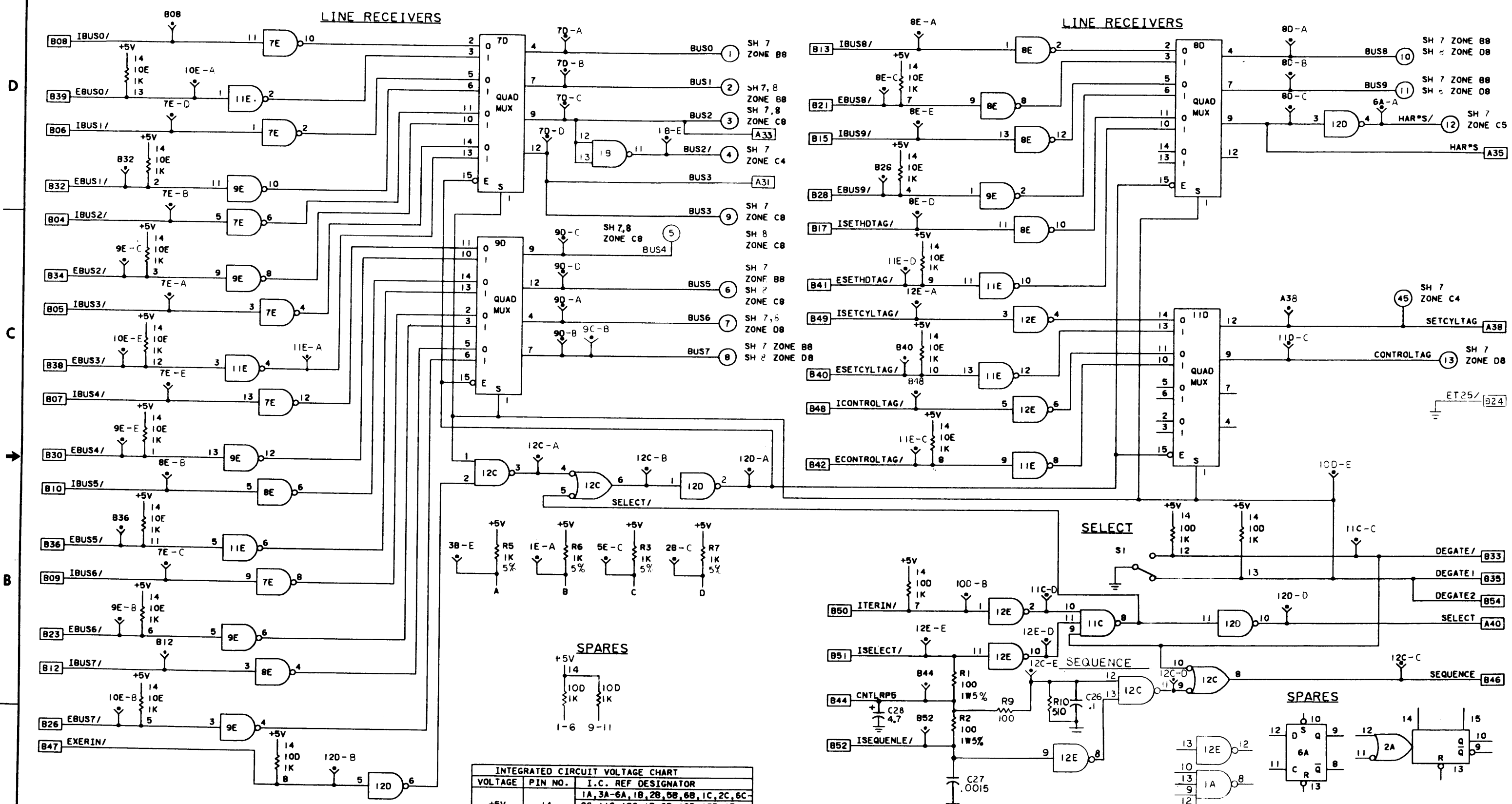
DRAWN	SIZE	REV
CHECK	D	N
APP'D	17771-001	
SCALE:	SHEET 12 OF	



CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH BURNBANK BLVD. ANAHEIM, CALIFORNIA 92816 201 WEST LA PALMA, ANAHEIM, CALIFORNIA 92816			
PWB ASSY READ LIMITER XAMDET / R/W PROTECT (SCHEMATIC) GR38			
DRAWN: <i>[Signature]</i> CHECK: <i>[Signature]</i> APP'D: <i>[Signature]</i>	DATE: 9 Jun 76 SIZE: D SCALE:	17771-001 SHEET 13 OF	REV: N

LINE RECEIVERS

LINE RECEIVERS

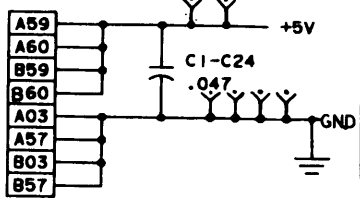


INTEGRATED CIRCUIT VOLTAGE CHART

VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	1A, 3A-6A, 1B, 2B, 5B, 6B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 10D, 12D, 1E, 2E, 6E-12E
	16	2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E
GND	7	1A, 3A-6A, 1B, 2B, 5B, 6B, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 12D, 1E, 2E, 6E-9E, 11E, 12E
	8	2A, 3B, 4B, 3C-5C, 7D-9D, 11D, 3E-5E

REF DES	LAST USED	REF DES	NOT USED
6A			
6B			
12C		10C	
12D			
12E	(47)		
R11		(38)	
C28	S1	(40)	

3. INDICATES NODE TEST POINTS.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 2%.
 NOTE: UNLESS OTHERWISE SPECIFIED.



Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA

ASSY, PWB - LOGIC I (SCHEMATIC)

DRAWN	REV	SIZE	REV
CHECK		D	18099-001
APPD			J

SCALE: — SHEET 6 OF 8

D

C

B

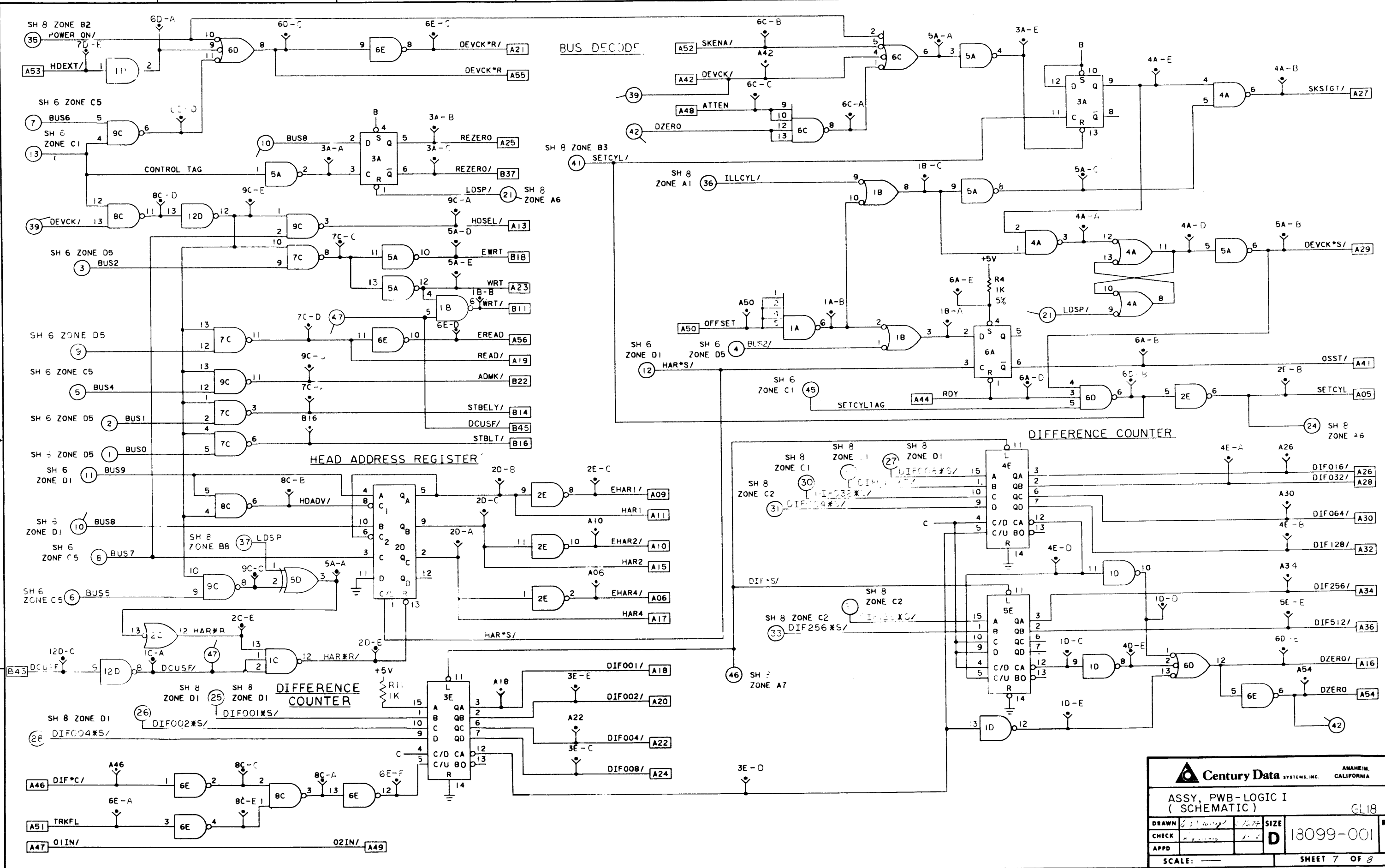
A

D

C

B

A

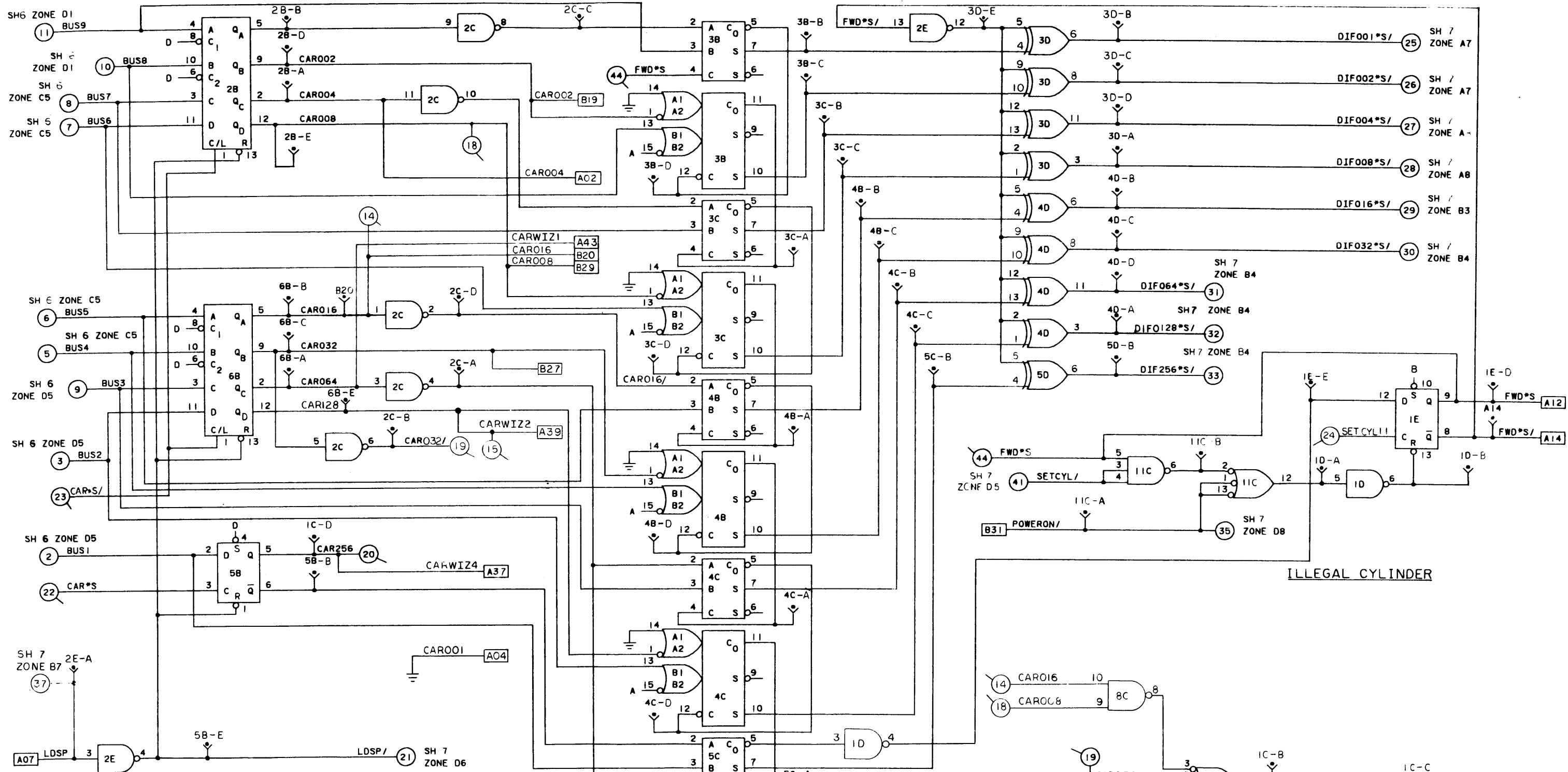


Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
ASSY, PWB-LOGIC I (SCHEMATIC) GL18	
DRAWN	SIZE D
CHECK	18099-001
APPD	REV J
SCALE: — SHEET 7 OF 8	

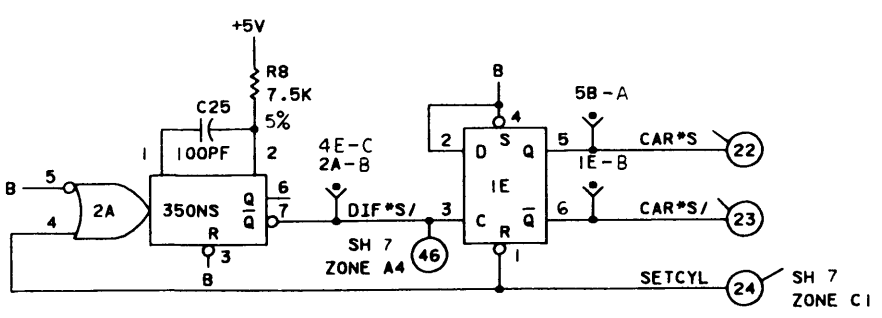
CYLINDER ADDRESS REGISTER

SUBTRACTOR

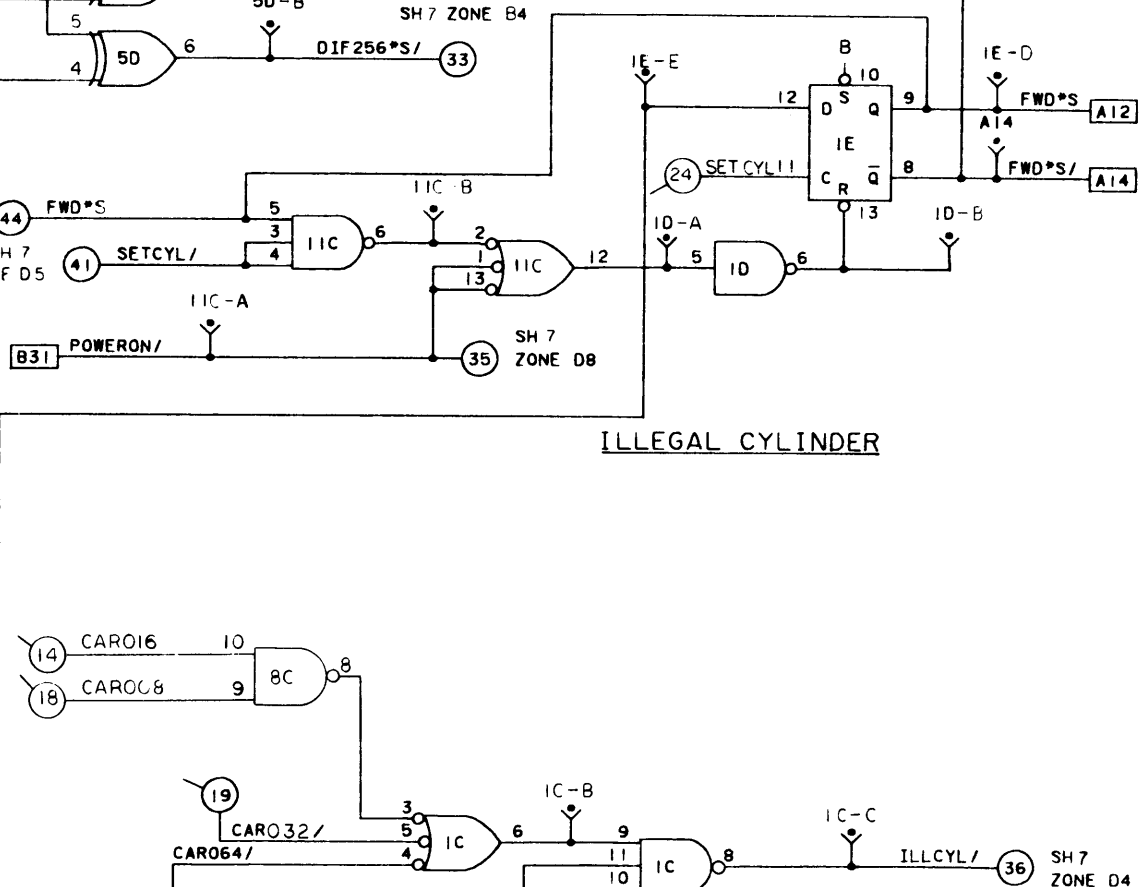
DIFFERENCE INPUT CONTROL



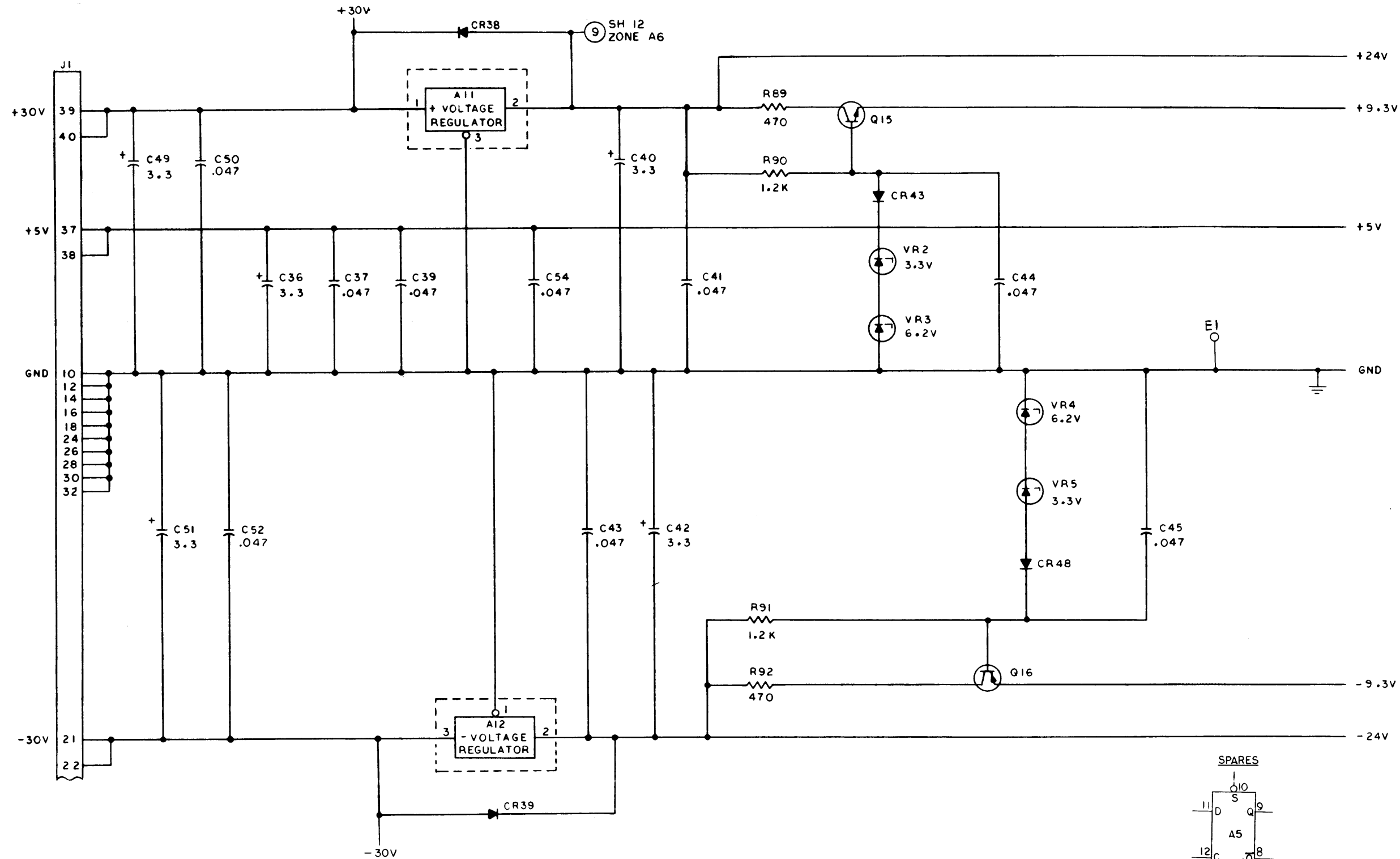
SUBTRACTOR TIMING CONTROL



ILLEGAL CYLINDER



Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
ASSY, PWB-LOGIC I (SCHEMATIC)	
GL18	
DRAWN	SIZE
CHECK	D 18099-001
APPD	REV
SCALE:	SHEET 8 OF 8



- 4. ◊ INDICATES TURRET TERMINAL TEST POINT.
 - 3. ALL 1% AND 0.1% RESISTORS ARE 1/8W.
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 - 1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.
- NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A2, A4, A5
+5V	16	A3
GND	7	A2, A4, A5
GND	8	A3

REF DES LAST USED	REF DES NOT USED
R93 H04	C38 C4, C6
C54 TP11	R68-R78 A1
CR48 J4	CR41, CR42 A8
Q17 VR5	A9
L1 T1	CR44-CR47 A10
A12 E1	C23-C34 C48, C53
	R80-R88
	TP1-TP4

Century Data
ANAHIM, CALIFORNIA

PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR75

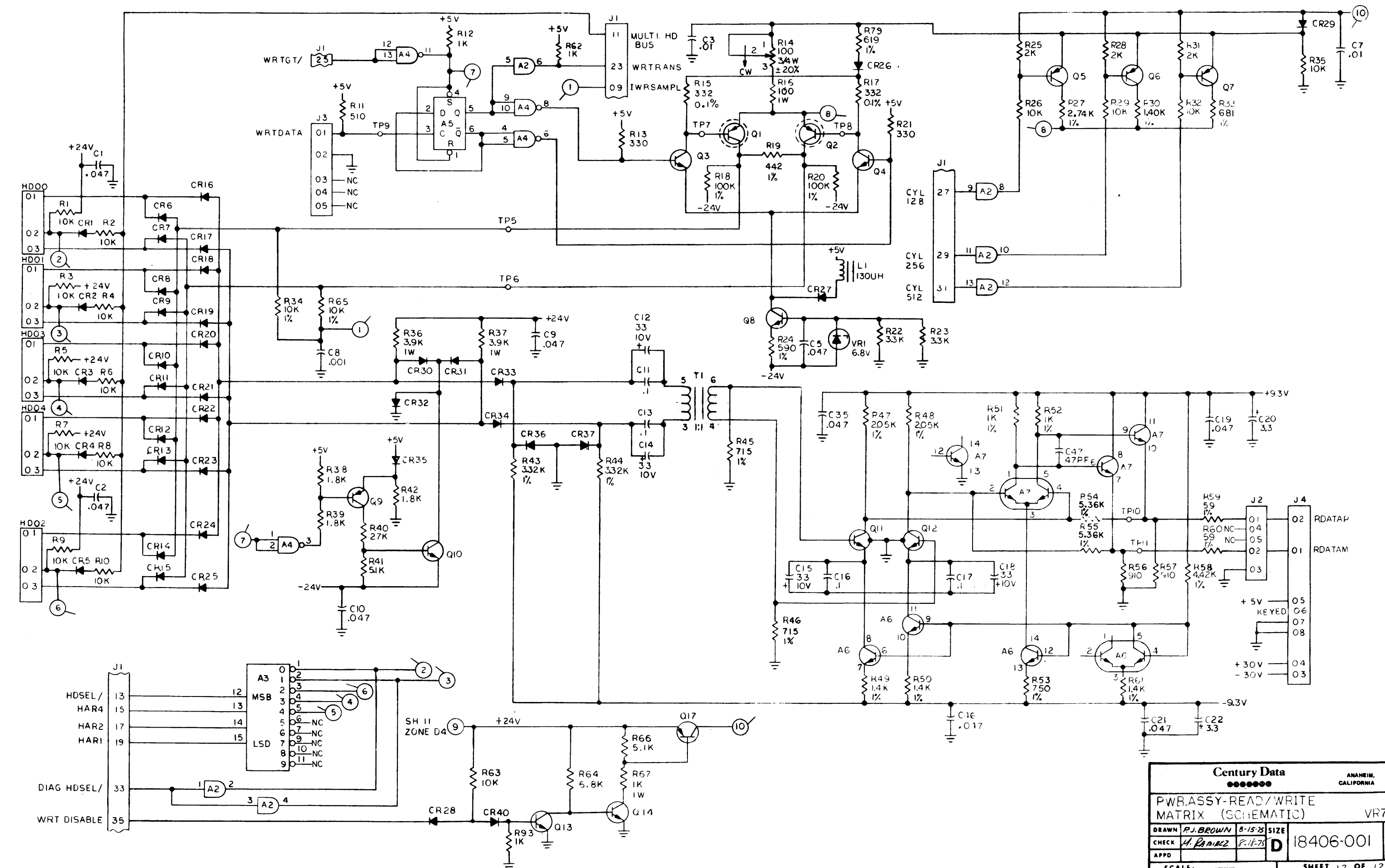
DRAWN P.J. BROWN	8-15-75	SIZE D	REV J
CHECK M. Ramirez	8-15-75	18406-001	
APPD		SHEET 11 OF 12	

D

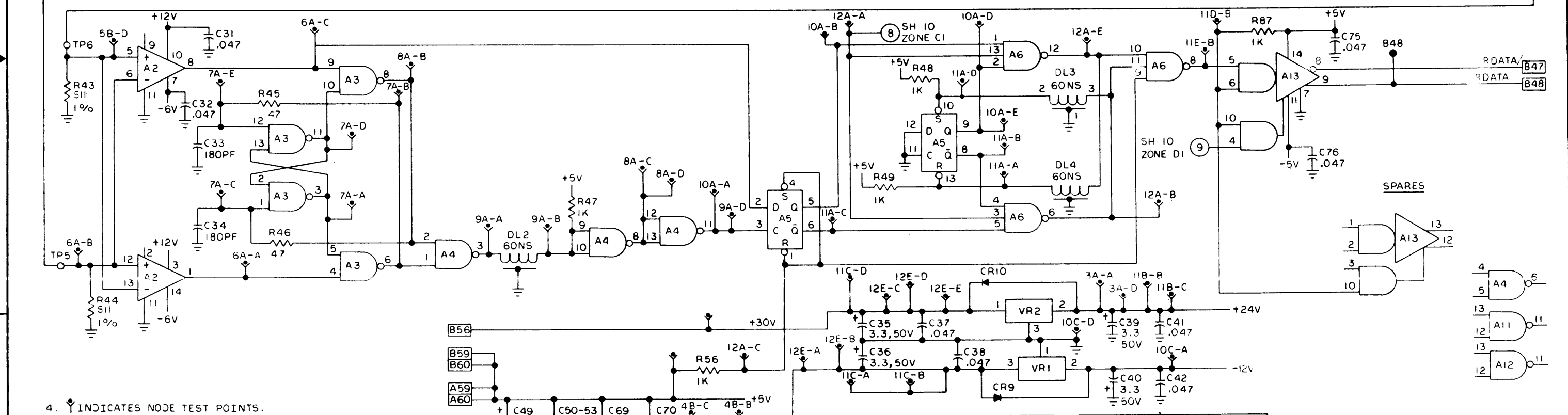
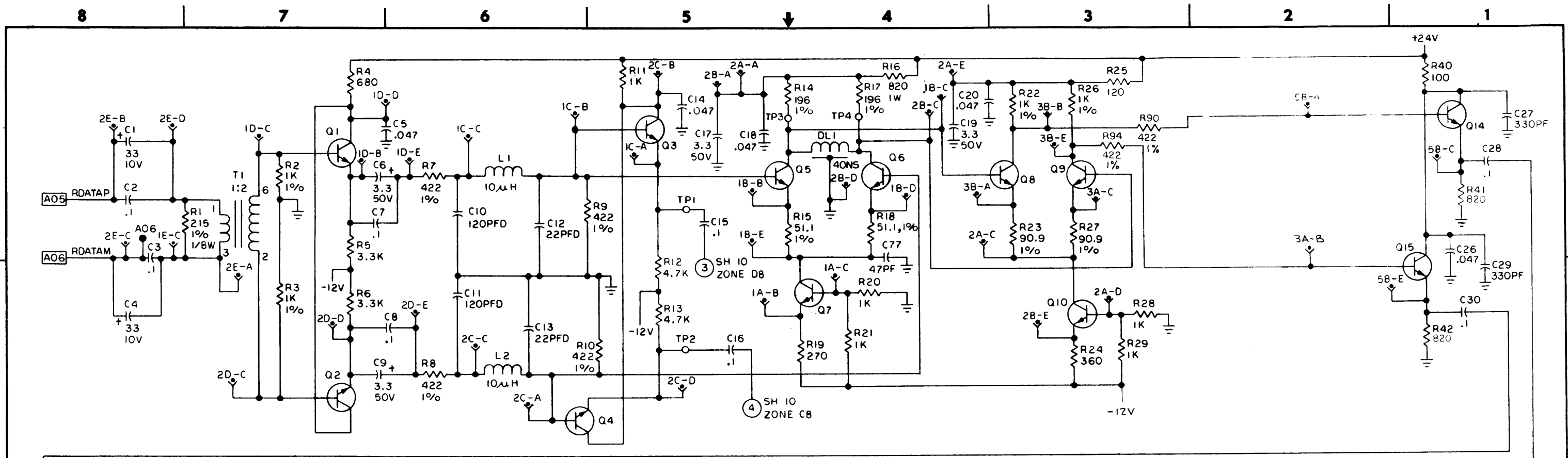
C

B

A

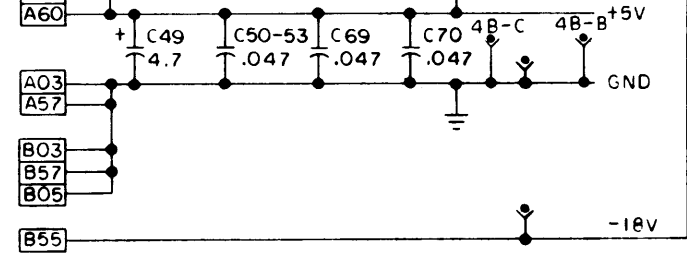


Century Data		ANAHEIM, CALIFORNIA	
PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR75			
DRAWN	R.J. BROWN	8-15-75	SIZE
CHECK	H. Ramirez	8-18-75	D
APPD			
SCALE: ---			REV J
SHEET 12 OF 12			



- 4. ⚡ INDICATES NODE TEST POINTS.
- 3. ● INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD.
- 2. CAPACITANCE VALUES ARE IN MICROFARADS.
- 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.

NOTES: UNLESS OTHERWISE SPECIFIED.



I.C. VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. DEF. DESIGNATION
+5V	14	A3-A6, A10-A13
GND	7	A3-A6, A10-A13

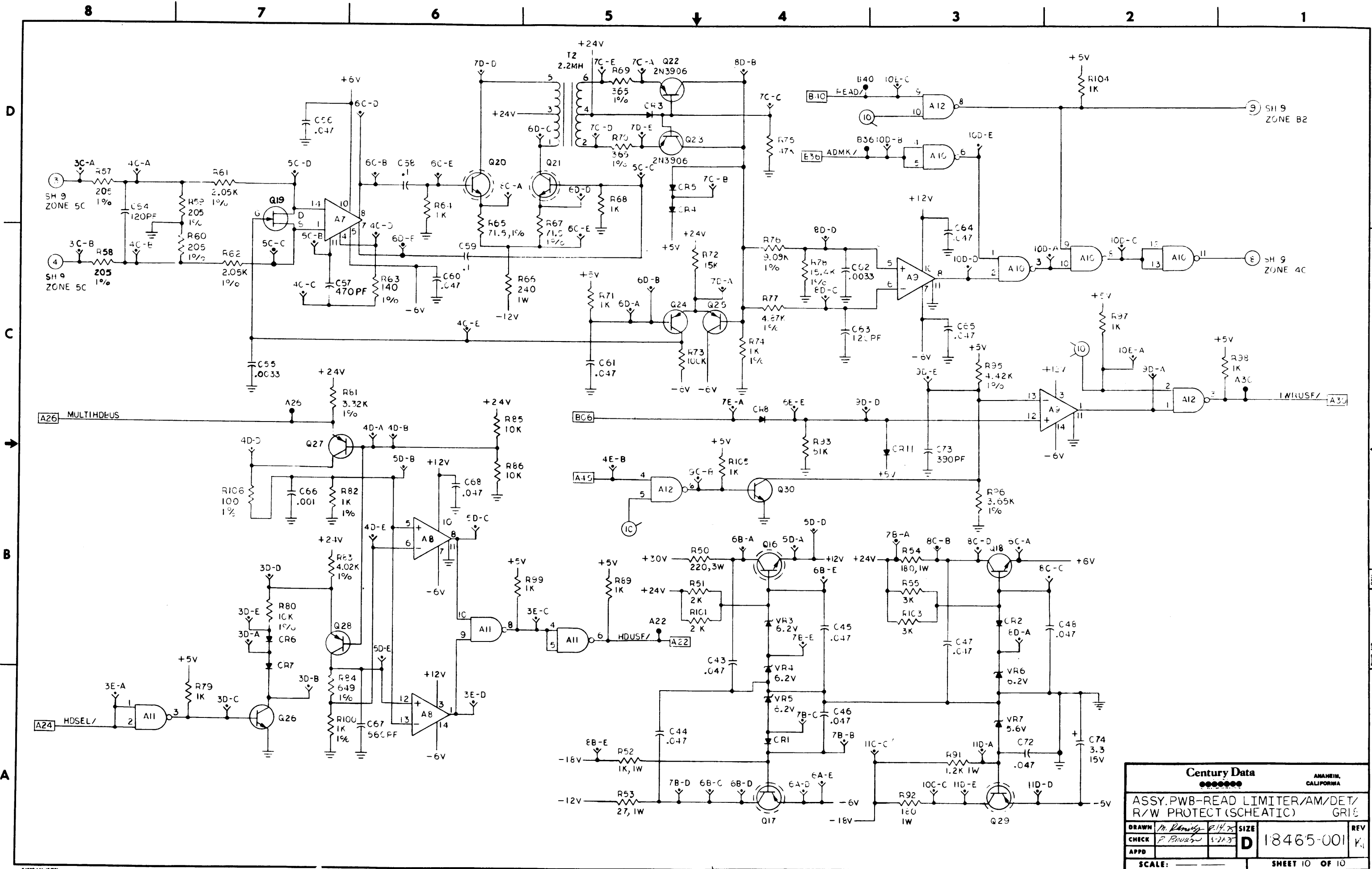
REF. DES.	REF. DES.
LAST USED	NOT USED
C77	T2
Q30	A1
CR11	R102
VR7	R88
L2	C71
R106	C21-25
DL4	R30-39
TP6	Q11-13

Century Data
ANAHEIM, CALIFORNIA

ASSY, PWB-READ LIMITER/AM/DET/R/W PROTECT (SCHEMATIC) GR 18

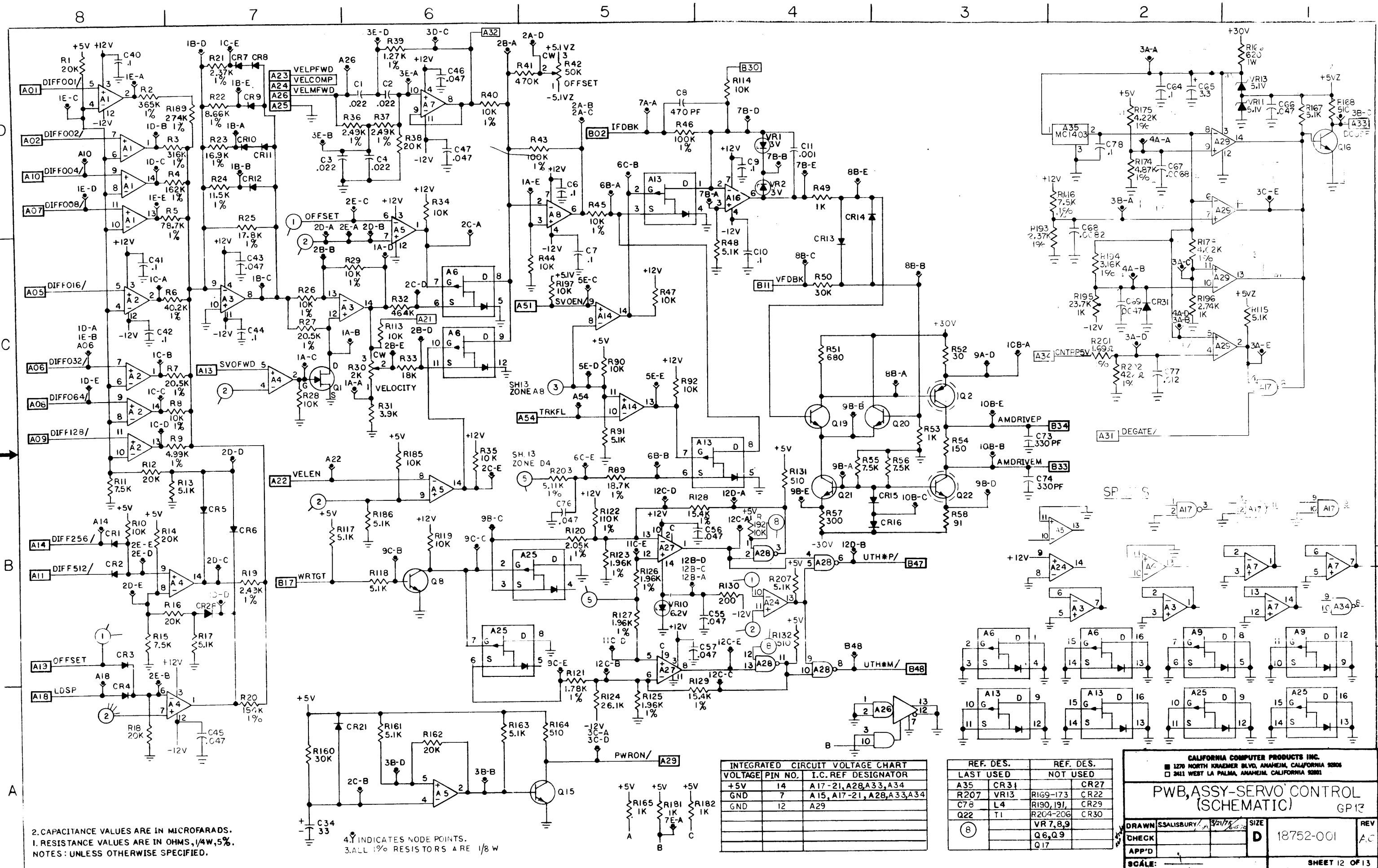
DRAWN	M. Collins	DATE	5-11-73	SIZE	D	REV	K
CHECK	P. B...	DATE	5-21-73	18465-001		SHEET 9 OF 10	
APPD							

DWG NO. 18465-001



Century Data AMARILLO, CALIFORNIA		A	
ASSY. PWB-READ LIMITER/AM/DET/ R/W PROTECT (SCHEMATIC) GRIE			
DRAWN	M. R. Smith	DATE	8-14-75
CHECK	P. Brown	DATE	5-21-75
APPD		SIZE	D
SCALE: ———		REV	18465-001 K1
		SHEET 10 OF 10	

F4000-141 (8/73)



2. CAPACITANCE VALUES ARE IN MICROFARADS.
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
 NOTES: UNLESS OTHERWISE SPECIFIED.

4. INDICATES NODE POINTS.
 3. ALL 1% RESISTORS ARE 1/8 W

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A17-21, A28, A33, A34
GND	7	A15, A17-21, A28, A33, A34
GND	12	A29

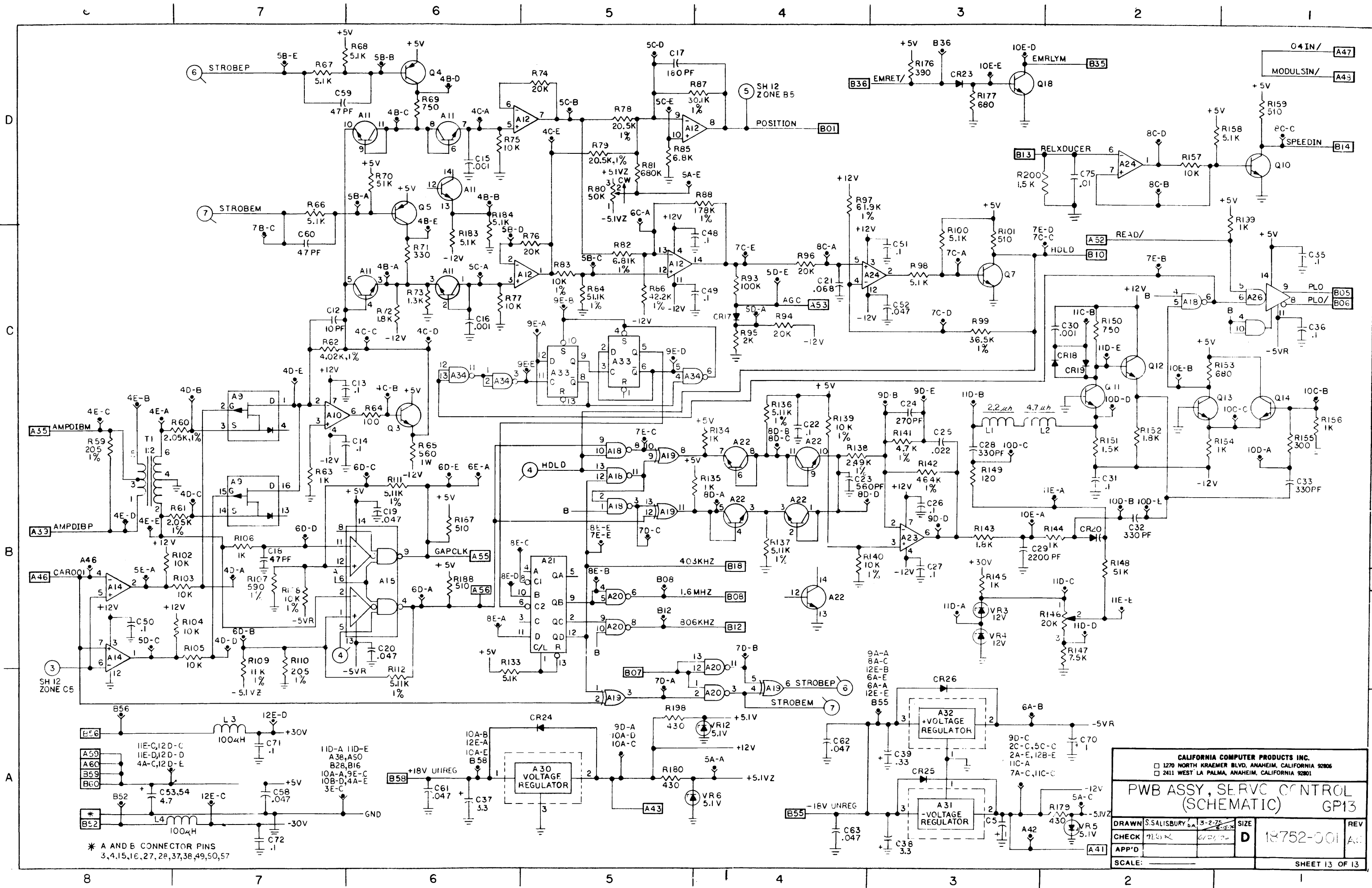
REF. DES.		REF. DES.	
LAST USED		NOT USED	
A35	CR31	R169-173	CR27
R207	VR13	R190, 191	CR29
C78	L4	R204-206	CR30
Q22	T1	VR7, 8, 9	
		Q6, Q9	
		Q17	

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 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB, ASSY-SERVO CONTROL (SCHEMATIC)
 GPI3

DRAWN	SSALISBURY	DATE	3/21/75	SIZE	D	REV	A.C.
CHECK							
APP'D							
SCALE:							

18752-001
 SHEET 12 OF 13

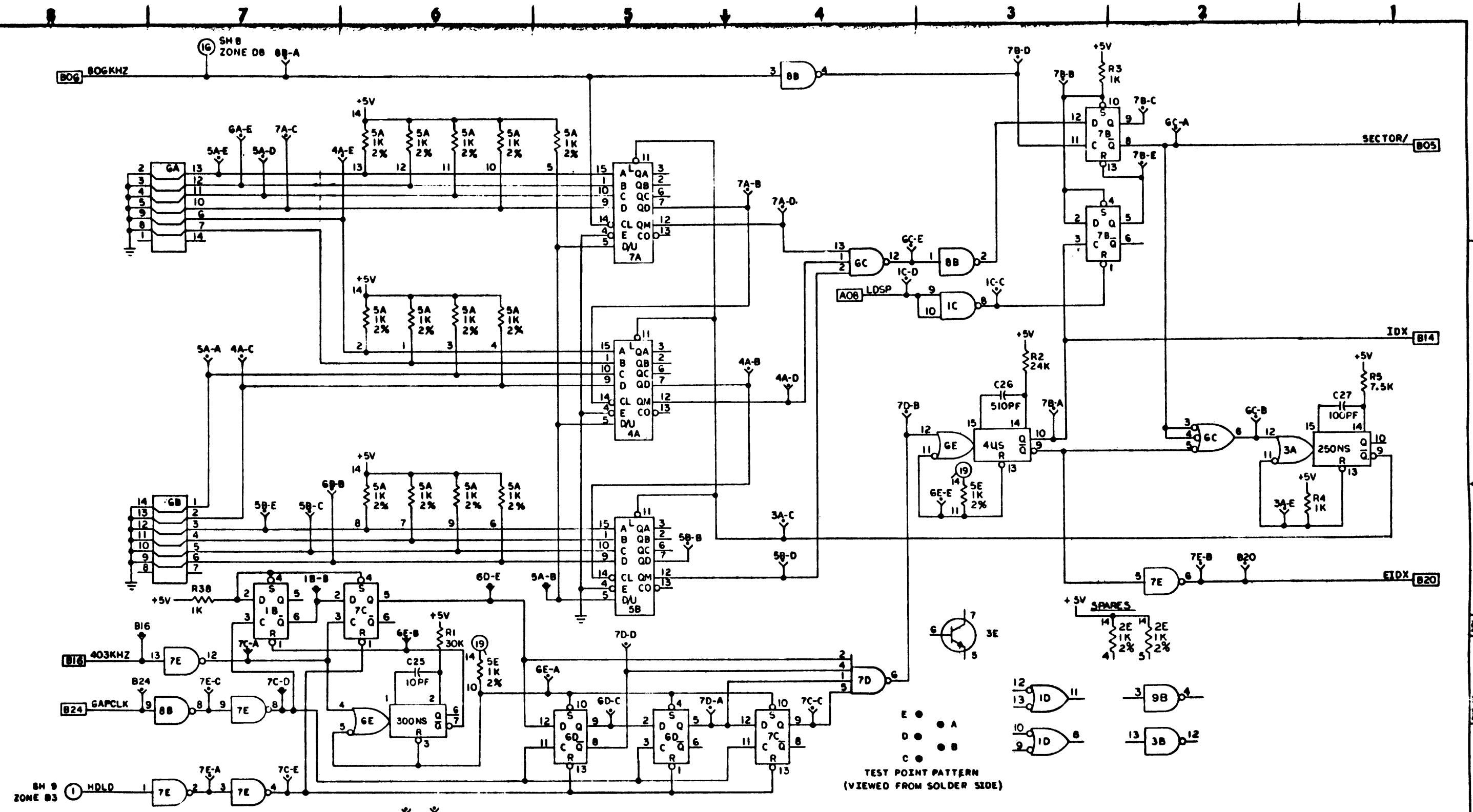


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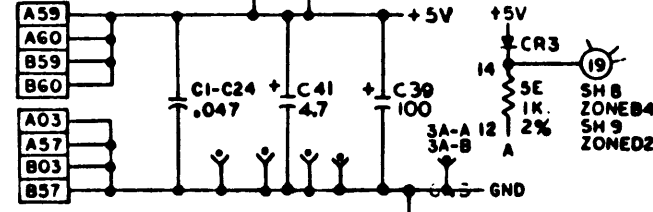
PWB ASSY, SERVC CONTROL (SCHEMATIC) GP13

DRAWN	S.SALISBURY	3-2-75	SIZE		REV
CHECK			D	18752-001	A1
APP'D					
SCALE:					SHEET 13 OF 13

* A AND B CONNECTOR PINS
 3, 4, 15, 16, 27, 28, 37, 38, 49, 50, 57



- 4. ALL 196 RESISTORS ARE 1/8W
 - 3. Y INDICATES NODE TEST POINTS
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS
 - 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
- NOTE: UNLESS OTHERWISE SPECIFIED



INTEGRATED CIRCUIT VOLTAGE CHART			
VOLTAGE	PIN NO	I.C. REF DESIGNATOR	
+5V	14	8A-12A, 1B-4B, 7B-9B, 11B, 12B, 1C-12C, 1D-9D	
+5V	16	3A, 4A, 7A, 5B, 10B, 10D, 6E	
GND	7	8A-12A, 1B-4B, 7B-9B, 11B, 12B, 1C-12C, 1D-9D	
GND	8	11D, 12D, 1E, 7E, 8E, 12E	
GND	8	3A, 4A, 7A, 5B, 10B, 10D, 6E	

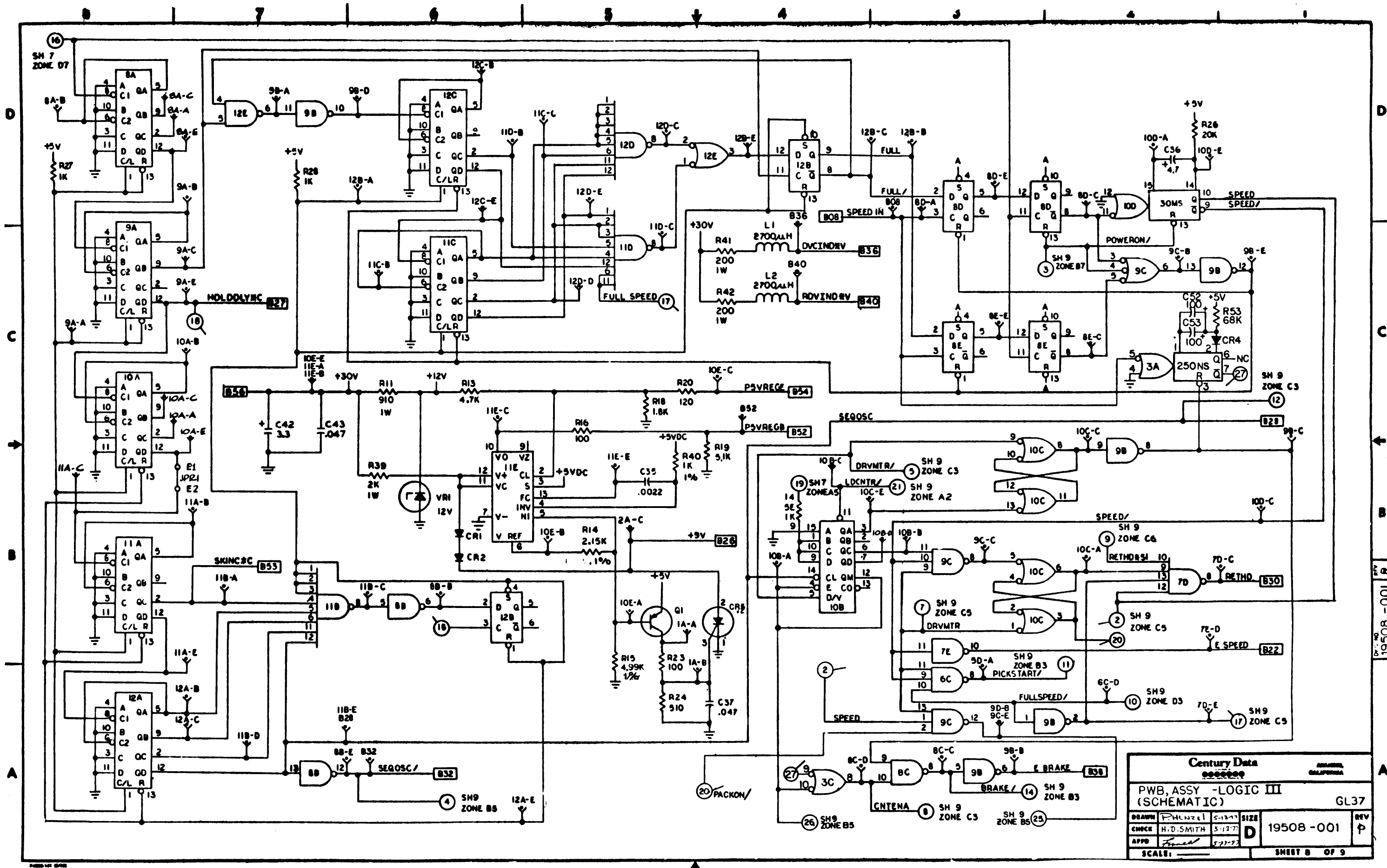
REF DES	LAST USED	REF DES	NOT USED
C63	12E	1A, 2A	C28-34
R63	Q5	9E	
12A	VR1	RG-10	10E
12B	CR5	R12	Q3, Q4
12C	L2	R17	Q2
12D	(27)	R25	
JPR1			
E2			

Century Data
SAN DIEGO, CALIFORNIA

PWB ASSY - LOGIC III
(SCHEMATIC) GL37

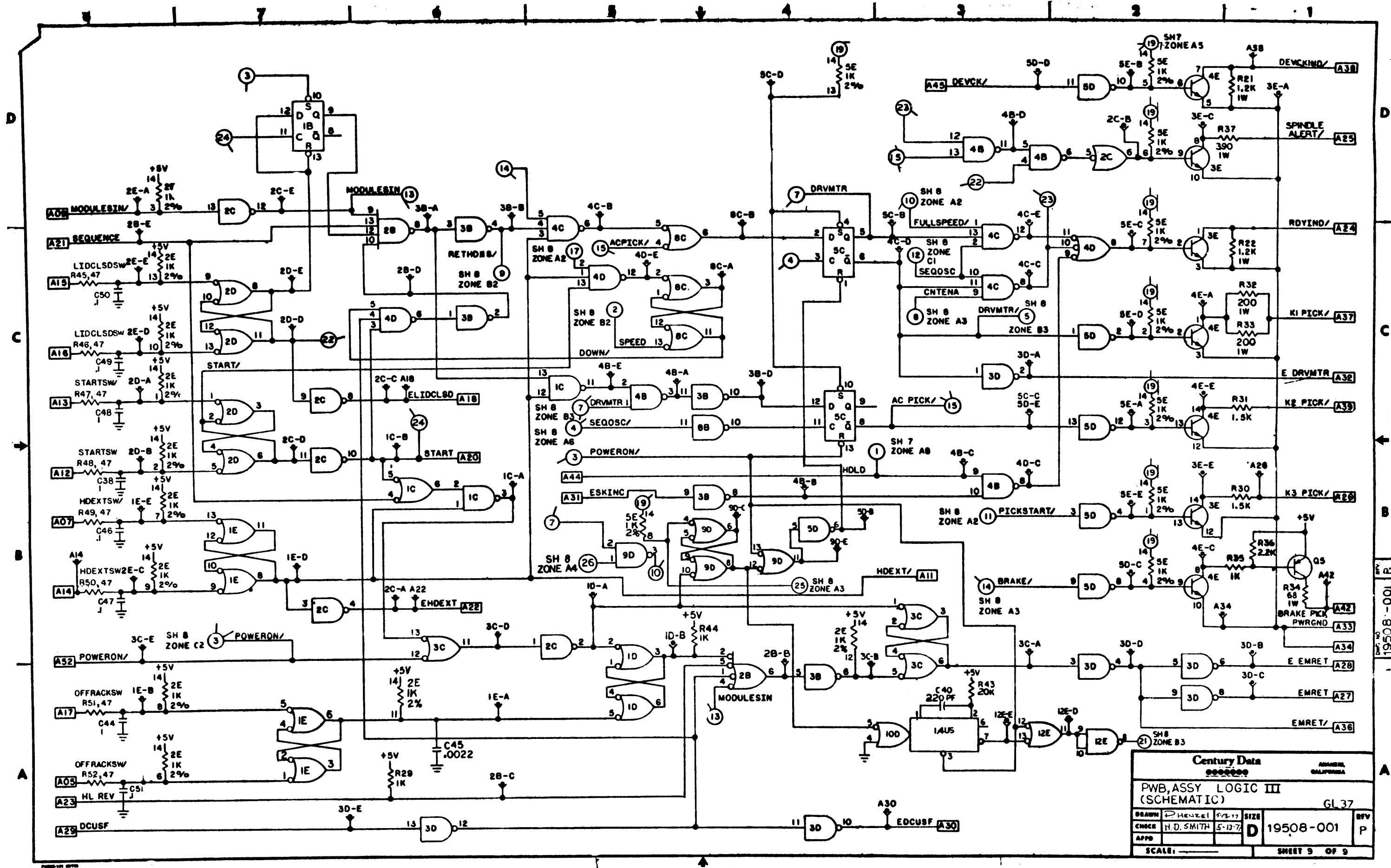
DRAWN: H. D. SMITH	DATE: 5-18-71	SIZE: D	REV: 1P
ENGR: H. D. SMITH	DATE: 5-18-71	19508-001	
APP: E2			

SCALE: — SHEET 7 OF 9



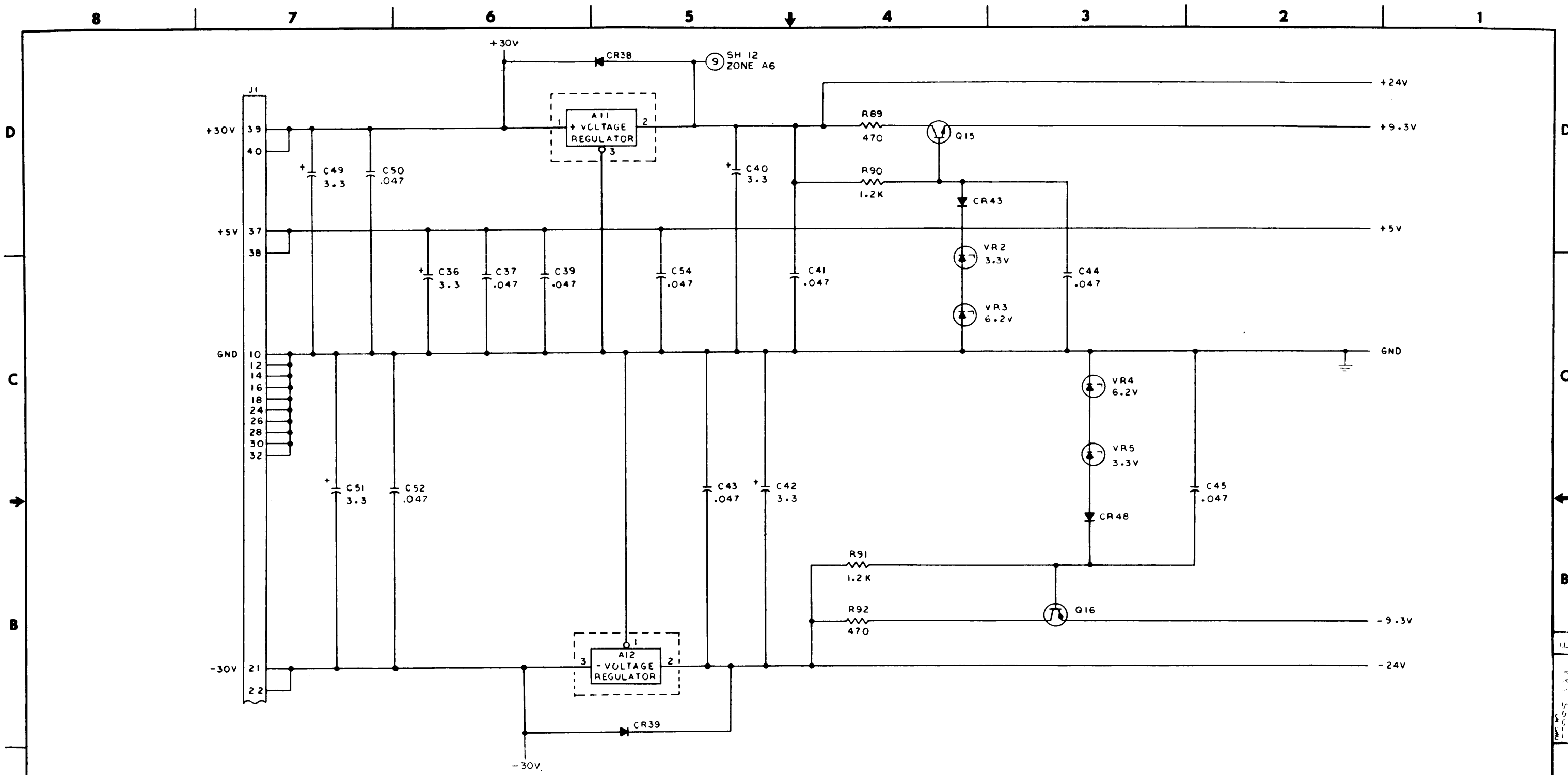
Century Data		ANN ARBOR, MICHIGAN	
PWB, ASSY - LOGIC III (SCHEMATIC)			
GL37			
DRAWN	PHUNZEL	5-12-77	SIZE
CHECK	H.D. SMITH	5-12-77	D
APPD	Fennel	5-23-77	19508-001
SCALE: _____		SHEET 8 OF 9	

19508-001 R



Century Data		ADAMANT, CALIFORNIA	
PWB, ASSY LOGIC III (SCHEMATIC)			
			GL 37
DRAWN	PHENEL 5/2/77	SIZE	D
CHGCR	H.D. SMITH 5-12-77	NO.	19508-001
APPD		REV	P
SCALE:		SHEET 9 OF 9	

19508-001



5 FOR COMPONENT VALUE SEE TABULATION BLOCK

4. -O INDICATES TURRET TERMINAL TEST POINT.

3. ALL 1% AND 0.1% RESISTORS ARE 1/8W.

2. CAPACITANCE VALUES ARE IN MICROFARADS.

1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.

NOTES: UNLESS OTHERWISE SPECIFIED.

REF DES	001	002
R16	100Ω, 1W	200Ω, 1W
R19	442Ω, 1%	649Ω, 1%
R45	715Ω, 1%	681Ω, 1%
R46	715Ω, 1%	681Ω, 1%
R54	5.36K, 1%	5.11K, 1%
R55	5.36K, 1%	5.11K, 1%

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A2, A4, A5
+5V	16	A3
GND	7	A2, A4, A5
GND	8	A3

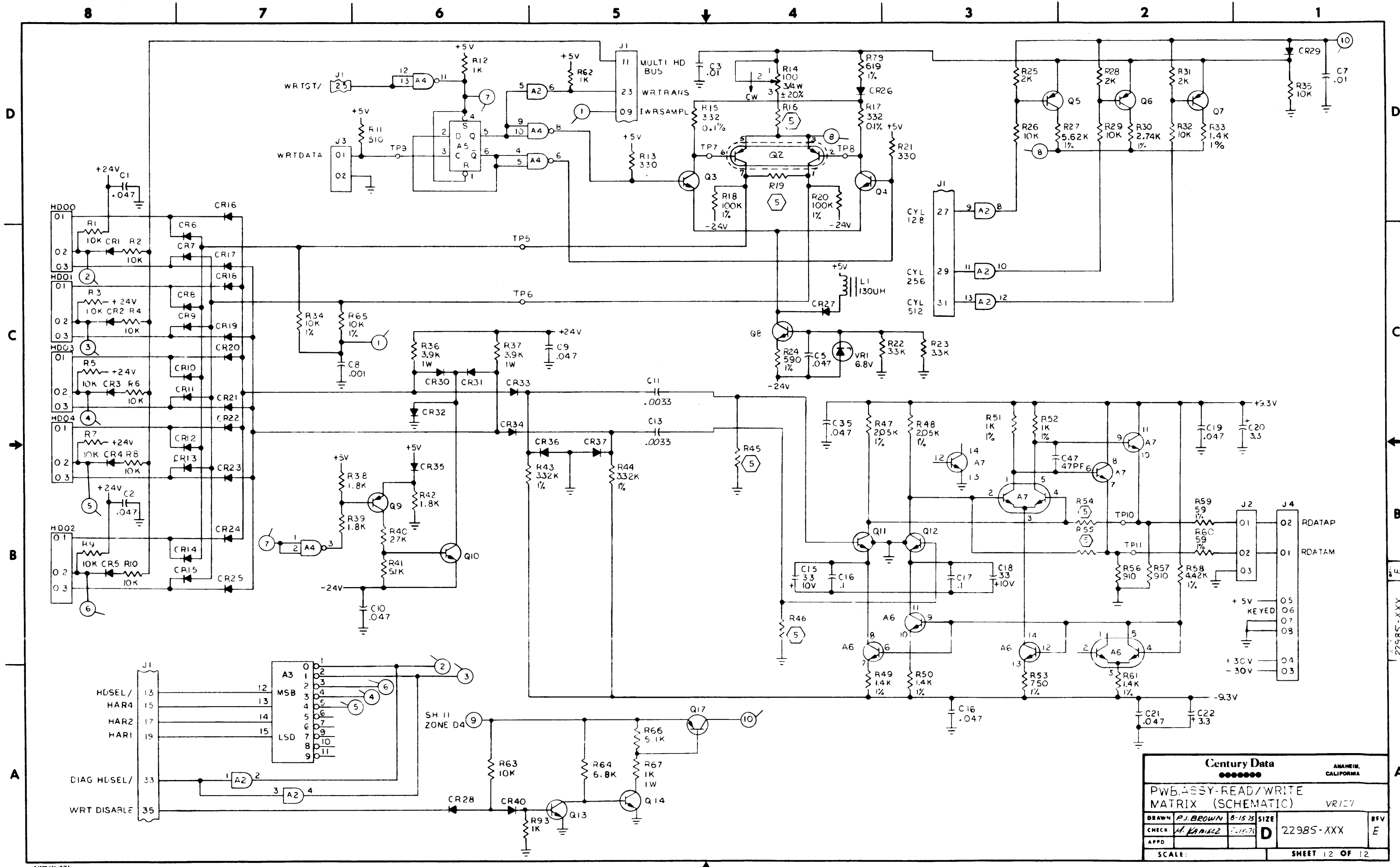
REF DES LAST USED	REF DES NOT USED
R93 H004	C4, C6
C54 TP11	R68-R78 A1
CR48 J4	CR41, CR42 A8
L1 VR5	CR44-CR47 A10
A12	C23-C34 C48, C53
	R80-R88 Q1
	C12, 14

Century Data
ANAHEIM, CALIFORNIA

PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR127

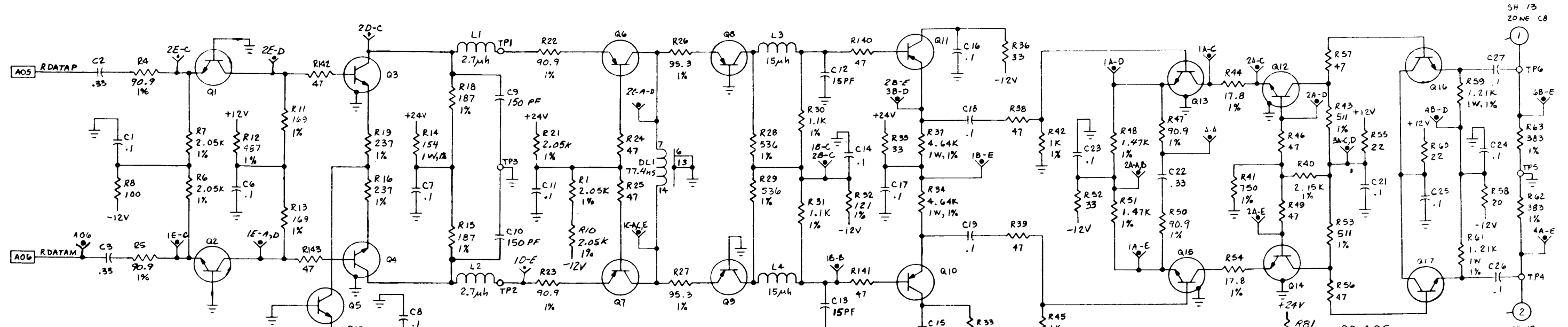
DRAWN P. BRUNN	SIZE D	REV E
CHECK M. Ramirez	22985-XXX	
APPD		

SCALE: SHEET 11 OF 12

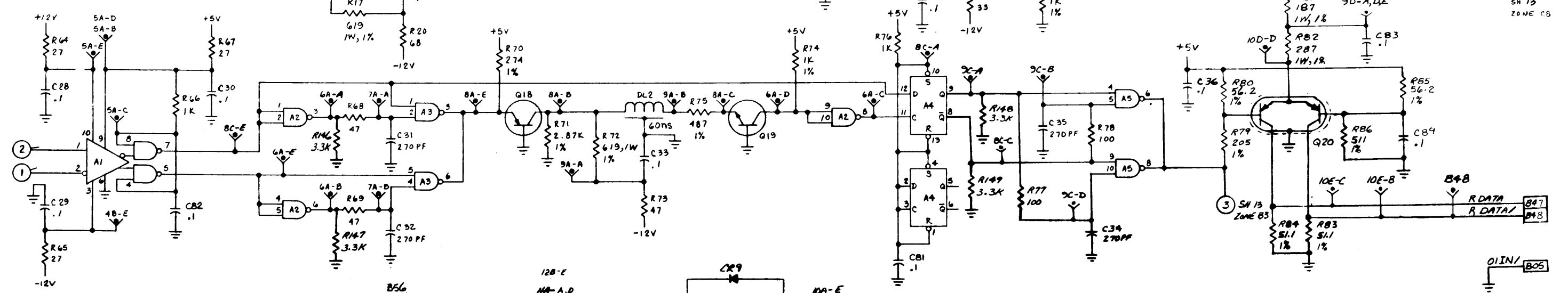


Century Data		ANAHEIM, CALIFORNIA	
PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR127			
DRAWN	P. J. BROWN	8-15-75	SIZE
CHECK	A. KARLIZ	7-11-75	D 22985-XXX
APPD			REV E
SCALE:			SHEET 12 OF 12

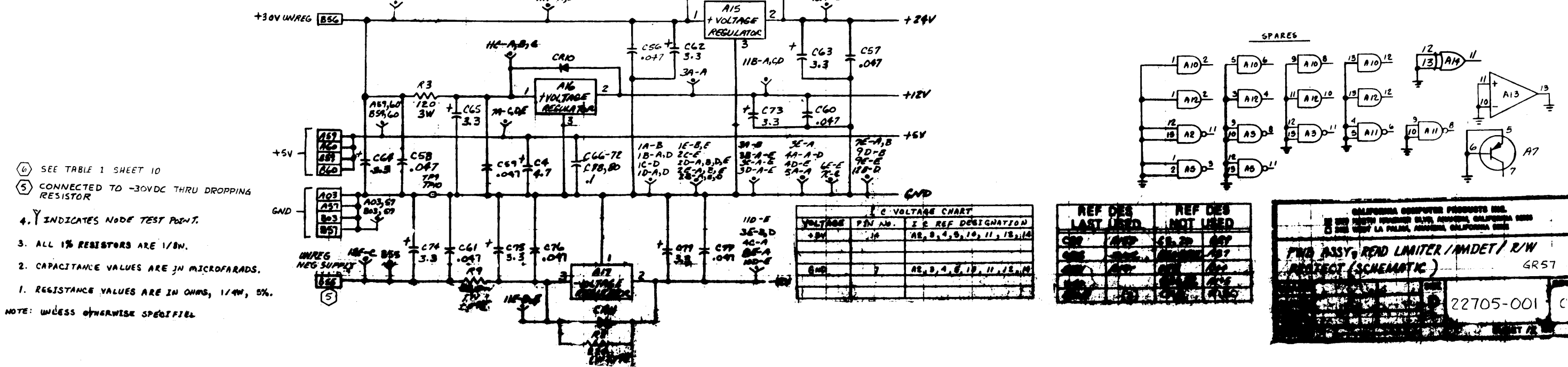
D



C



B



- ④ SEE TABLE 1 SHEET 10
 - ⑤ CONNECTED TO -30VDC THRU DROPPING RESISTOR
 - 4. Y INDICATES NODE TEST POINT.
 - 3. ALL 1% RESISTORS ARE 1/8W.
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 - 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
- NOTE: UNLESS OTHERWISE SPECIFIED

I.C. VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATION
+24V	14	A2, 3, 4, 5, 10, 11, 12, 14
GND	7	A2, 3, 4, 5, 10, 11, 12, 14

REF DES LAST USED		REF DES NOT USED	
Q1	A10	C1, 2, 3	A10
Q2	A12	A11	A11
Q3	A13	A12	A12
Q4	A14	A13	A13

CALIFORNIA COMPUTER PRODUCTS INC.
 200 NORTH TROBRIAN BLVD, ANAHEIM, CALIFORNIA 92801
 800 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PRO ASSY, READ LIMITER / AMDET / R/W PROTECT (SCHEMATIC)

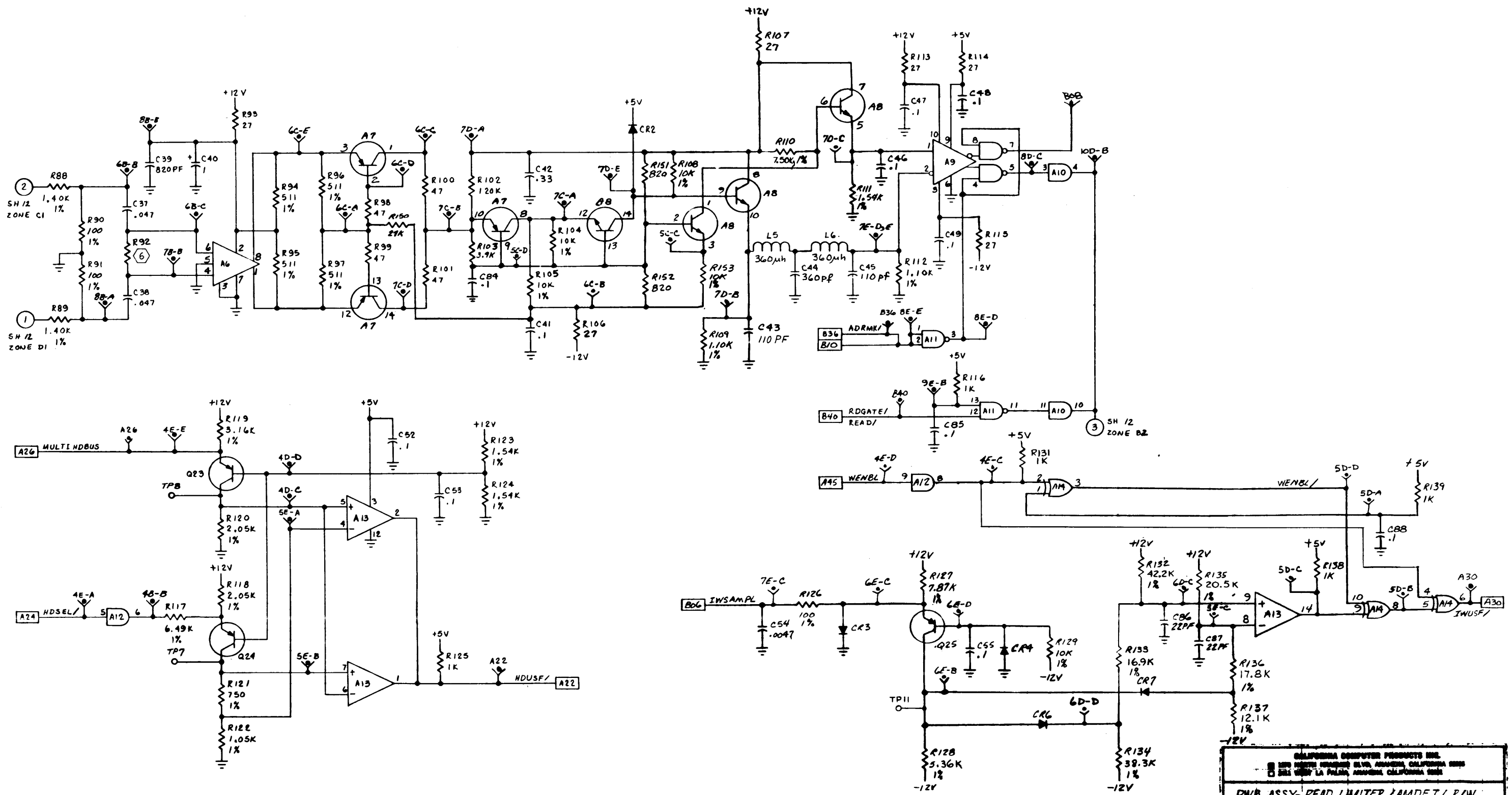
22705-001

D

C

B

A



CALIFORNIA COMPUTER PRODUCTS INC. 1500 NORTH UNIVERSITY BLVD, ANAHEIM, CALIFORNIA 92816 5811 WEST LA PALMA, ANAHEIM, CALIFORNIA 92818			
PWB ASSY, READ LIMITER / AMDET / RW PROTECT (SCHEMATIC) GR57			
DRAWN: <i>[Signature]</i> CHECK: <i>[Signature]</i> APP'D: <i>[Signature]</i> SCALE:	REV: D 22705-001	REV: C	SHEET 13 OF

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