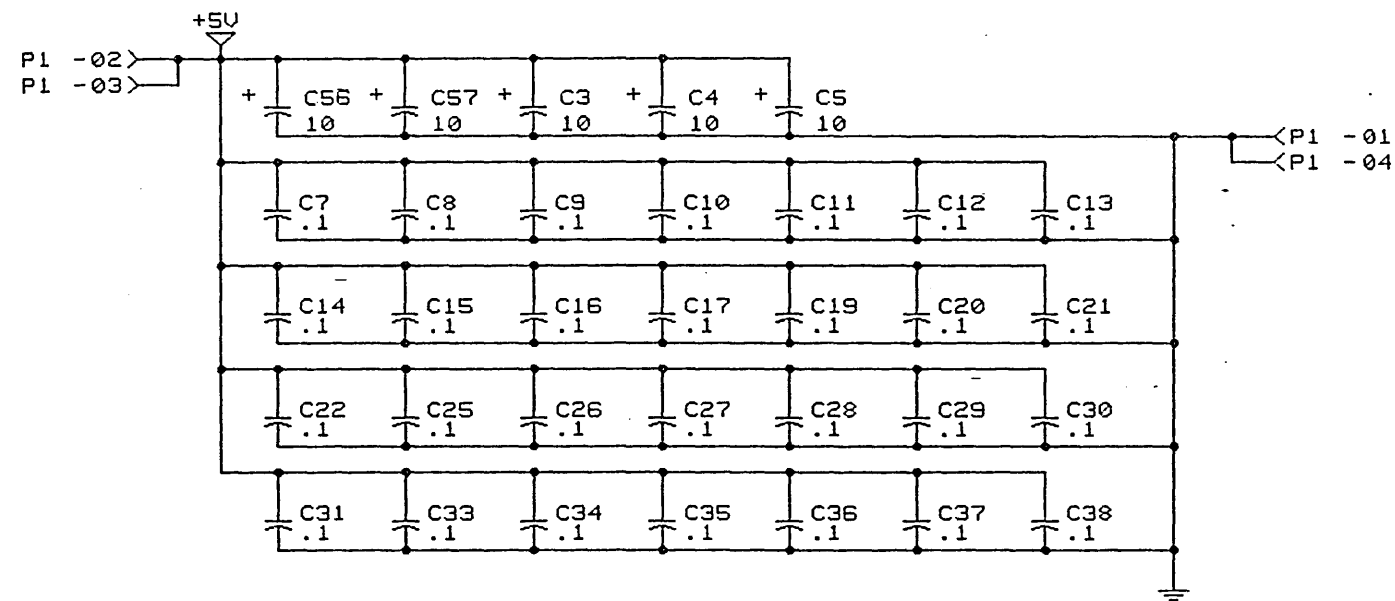


NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL CAPACITOR VALUES ARE IN MICROFARADS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, 5%.
3. UNUSED GATES WILL EITHER BE ON THE LAST SHEET(S) OF THIS DOCUMENT OR IDENTIFIED BY THIS NOTE.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	AX	PROTO RELEASE-SEE ECO#1919	CR 4/20/88	
	BX	INC PER ECO# 2060	LR 12/15/88	



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AUTHORIZATION BY AMPERIF CORPORATION.



TOLERANCES UNLESS
OTHERWISE SPECIFIED
FRACTIONS DEC ANGLES
± ± ±

APPROVALS DATE

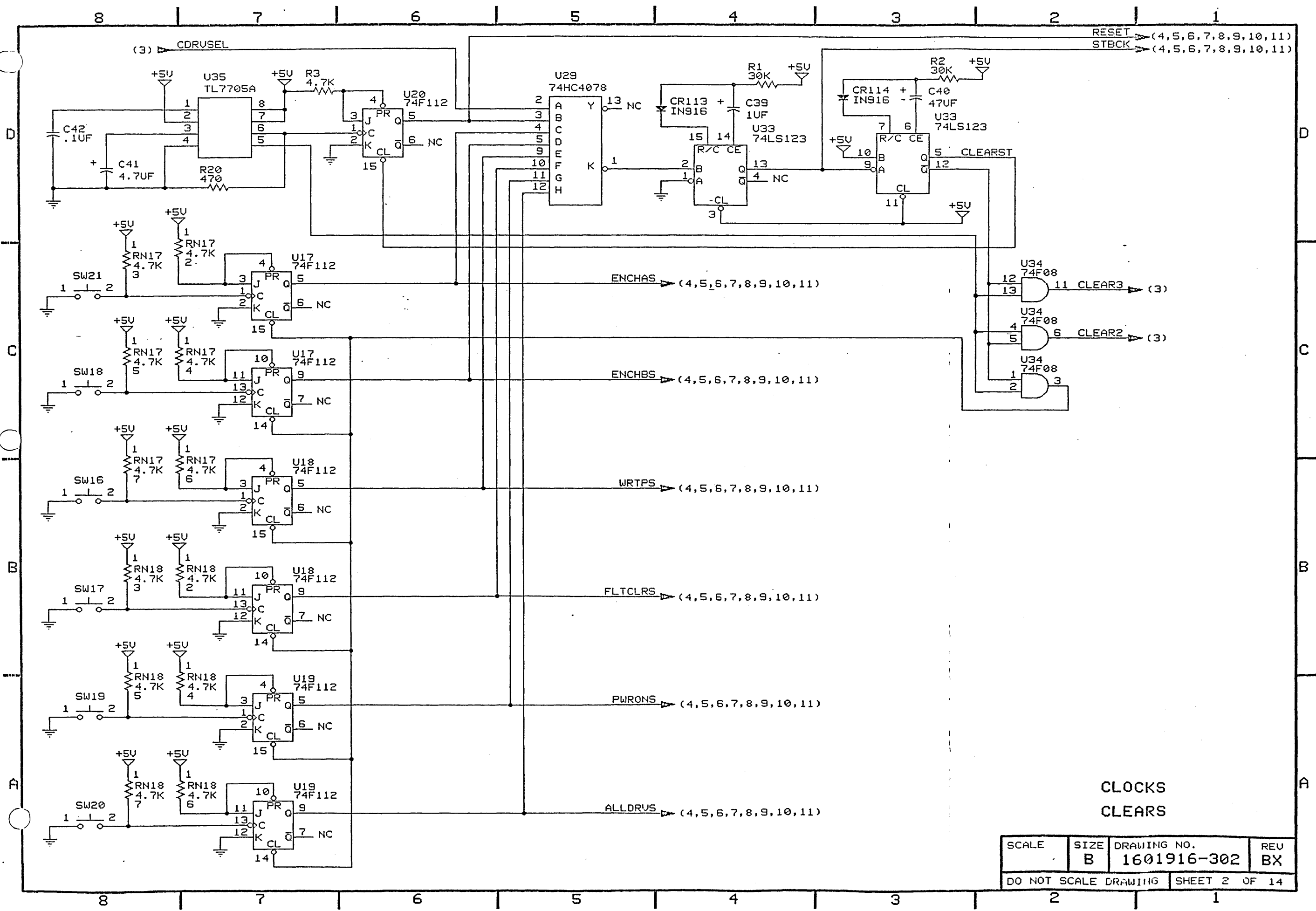
DRAWN R. MARTINEZ 4/11/89

CHECKED D. WILLIAMS 5-8-89

SCHEMATIC,
DDC_302

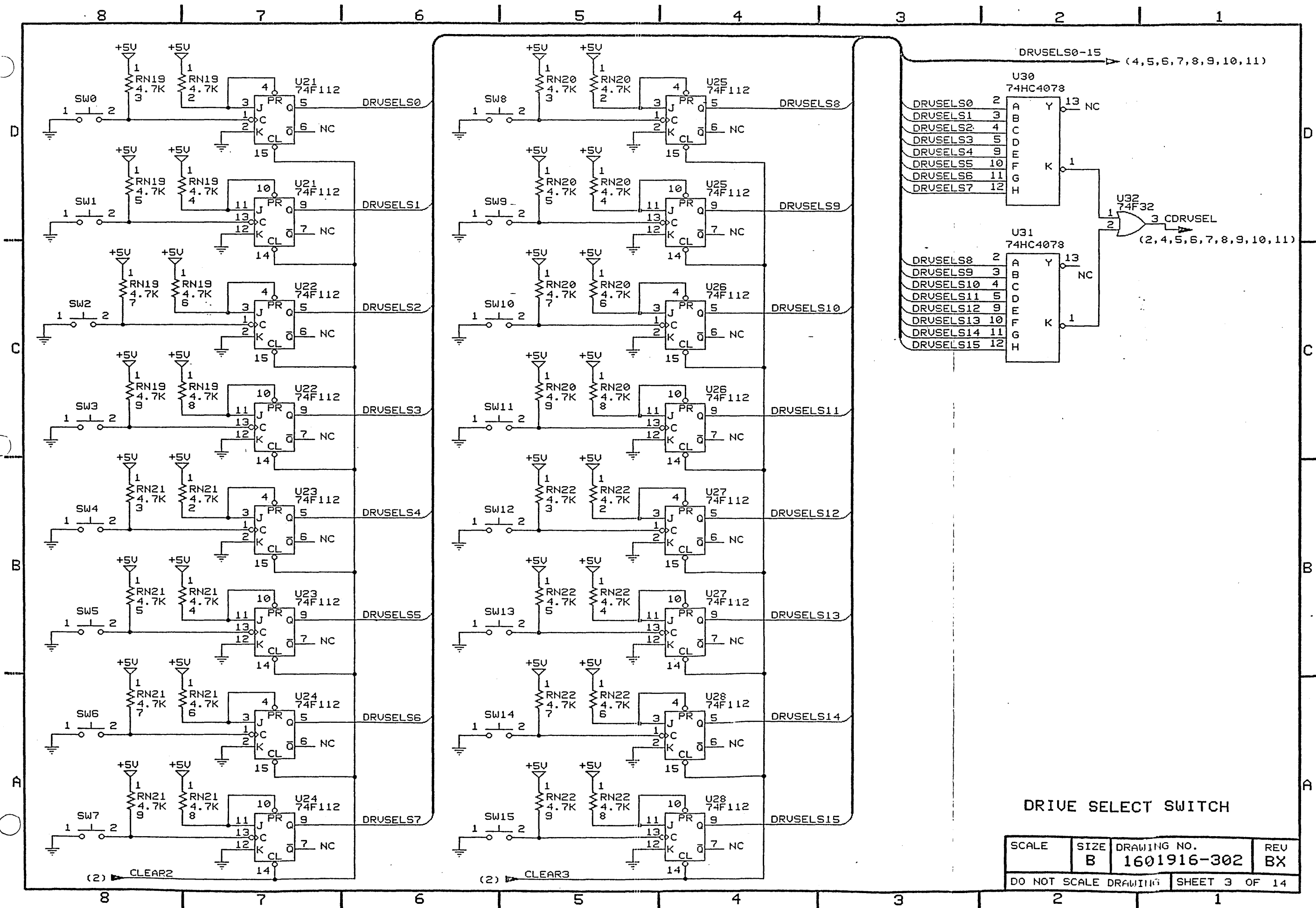
SCALE NONE	SIZE B	DRAWING NO. 1601916-302	REV BX
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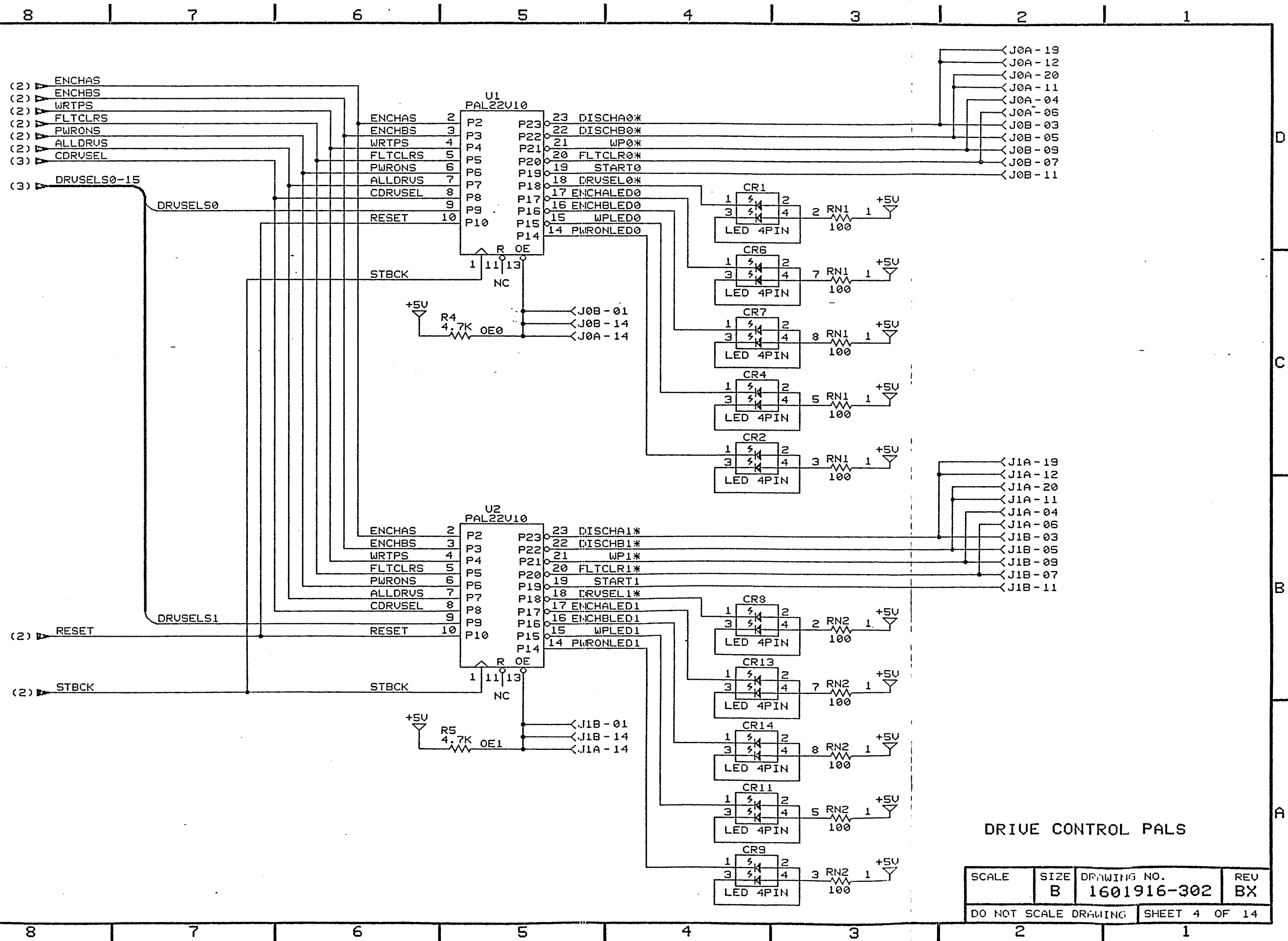
DO NOT SCALE DRAWING SHEET 1 OF 14



CLOCKS
CLEARS

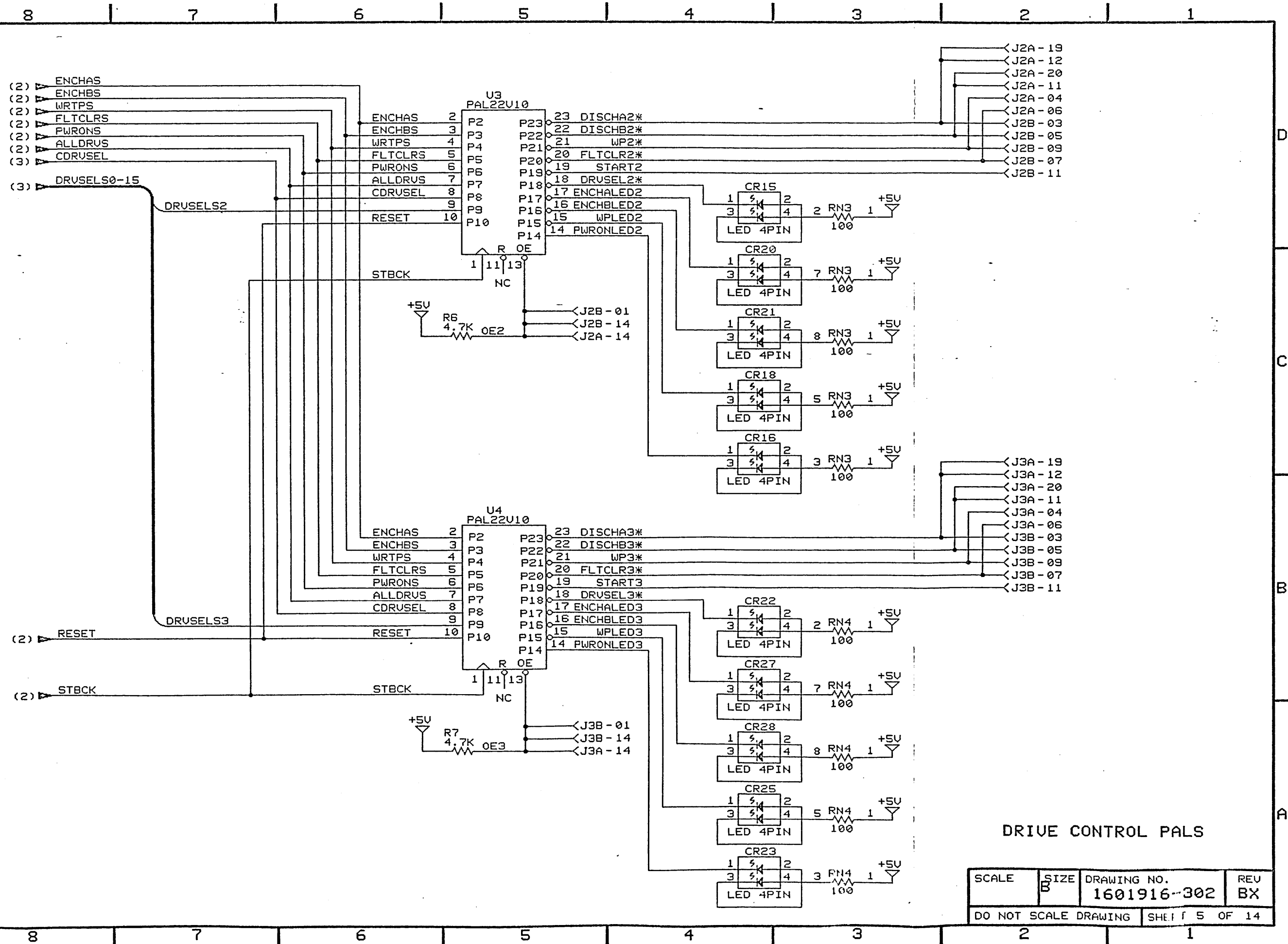
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	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 2 OF 14	





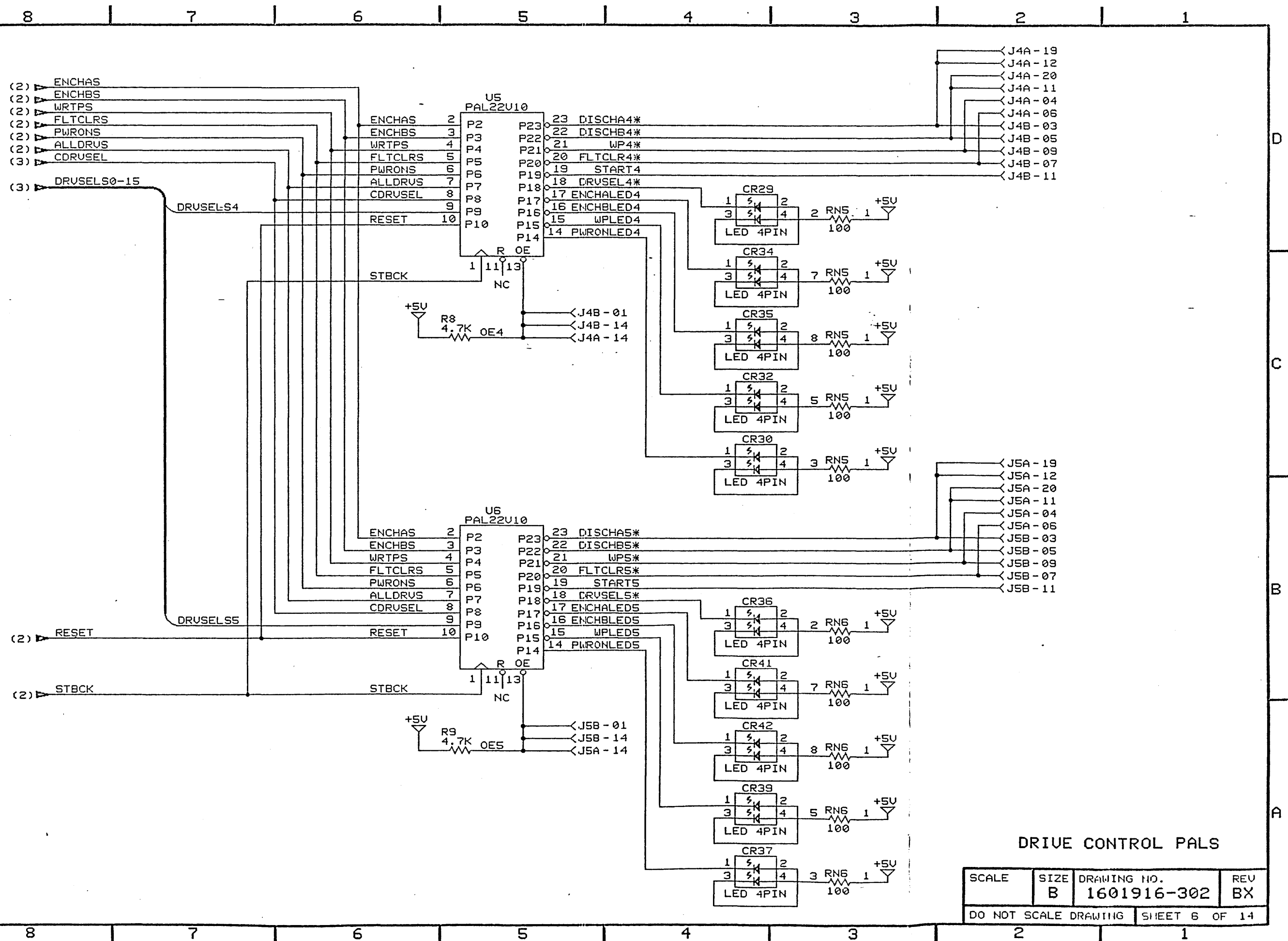
DRIVE CONTROL PALS

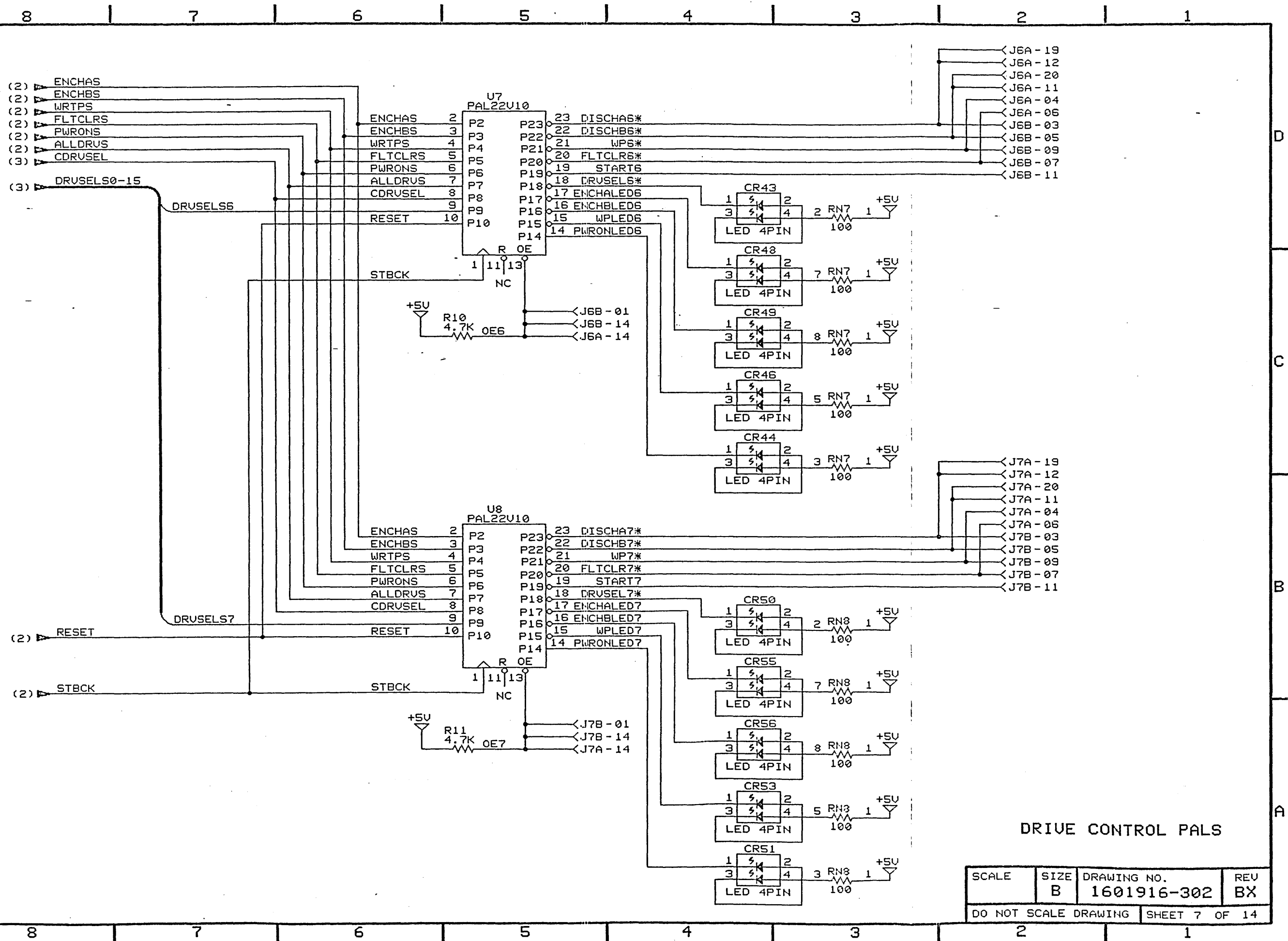
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DO NOT SCALE DRAWING		SHEET 4 OF 14	

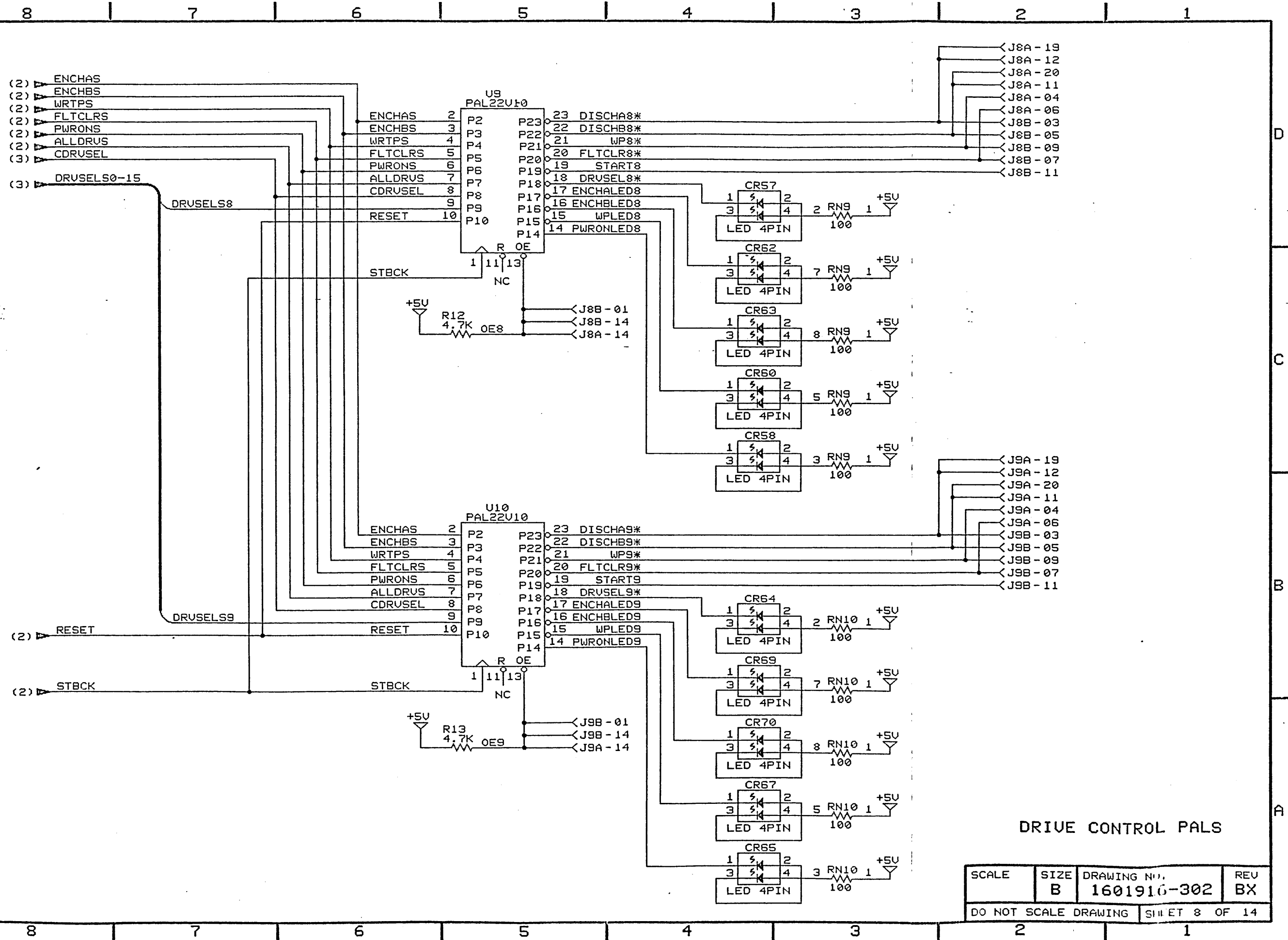


DRIVE CONTROL PALS

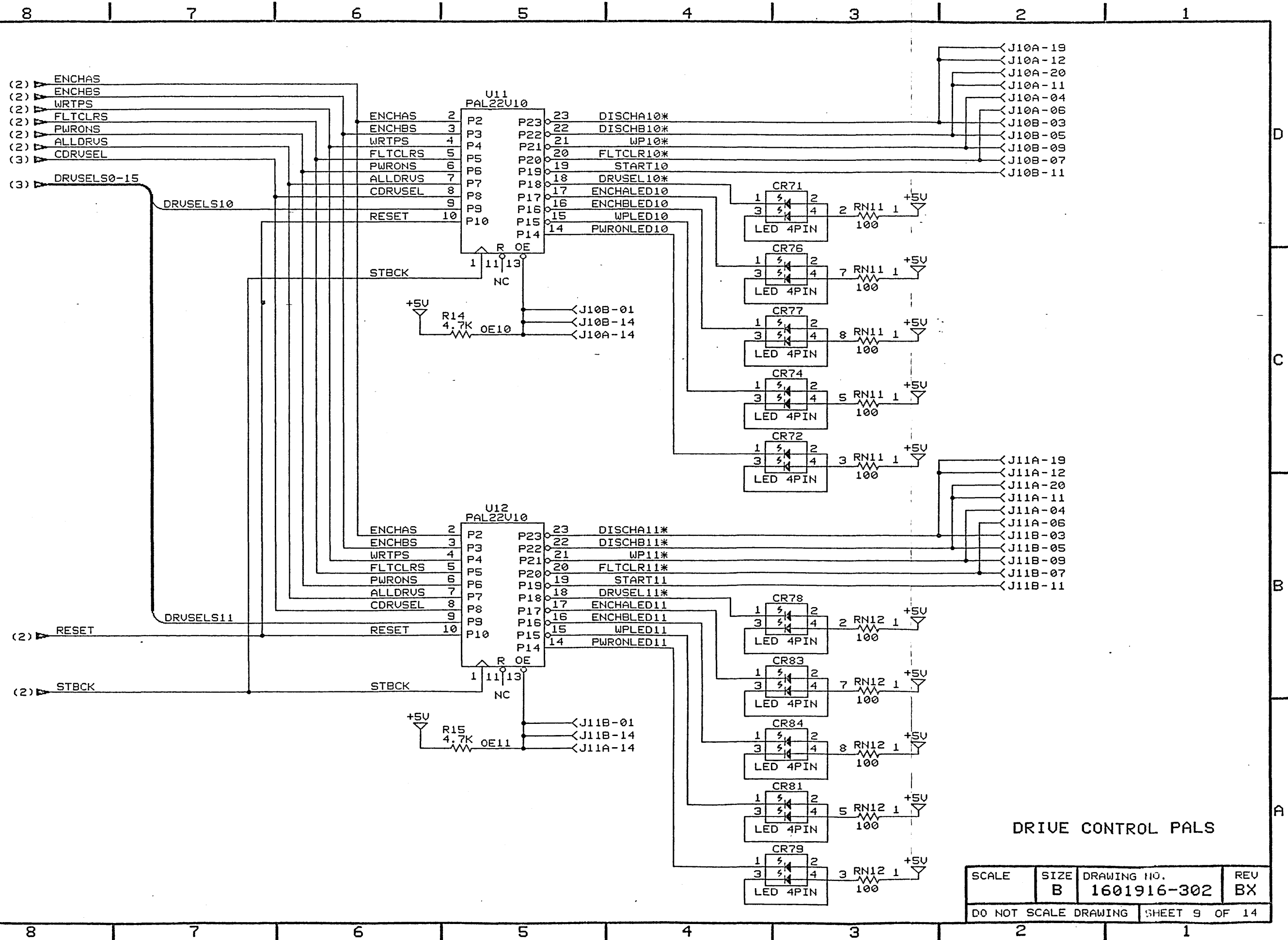
SCALE	SIZE	DRAWING NO.	REV
	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 5 OF 14	

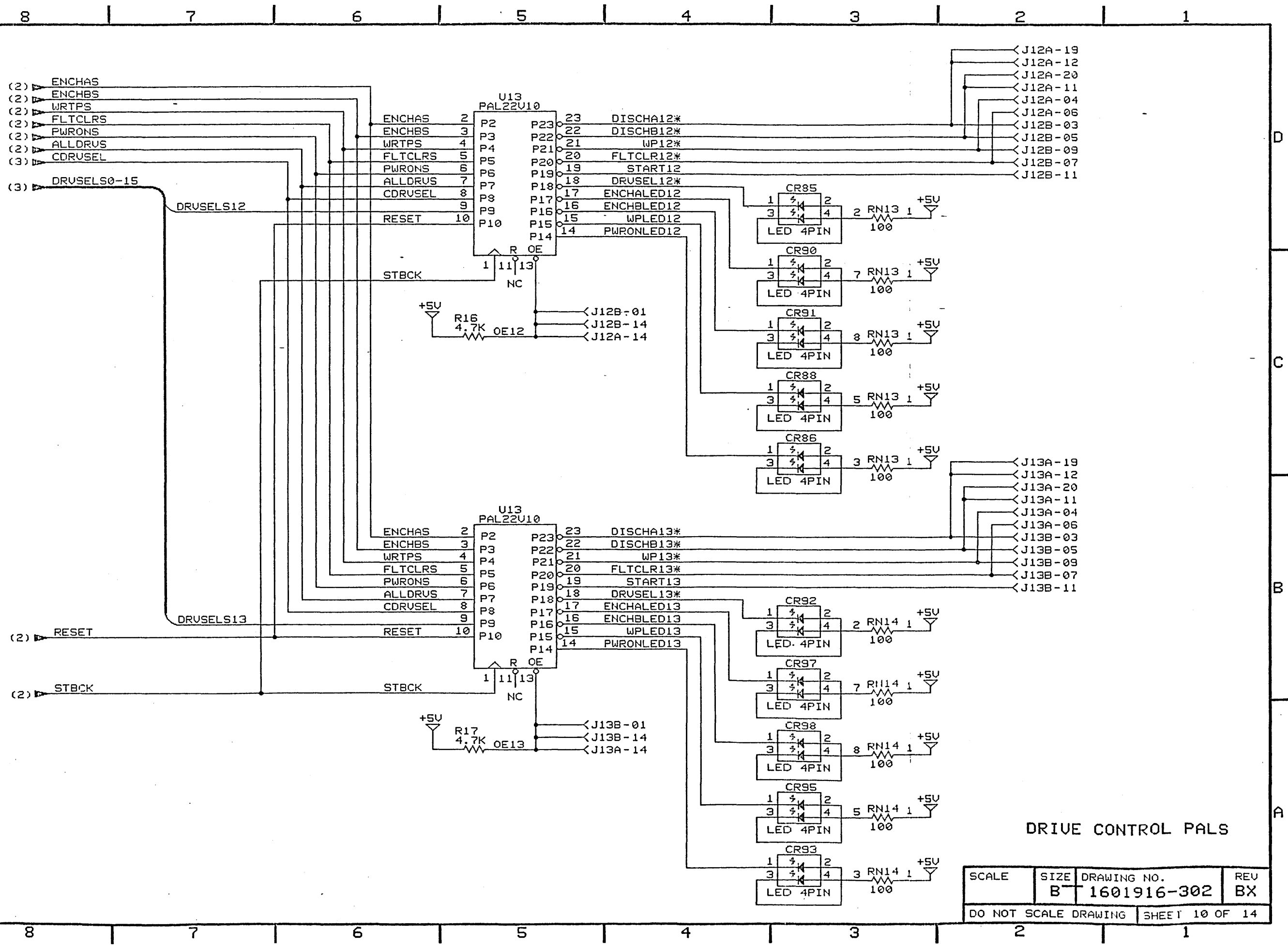






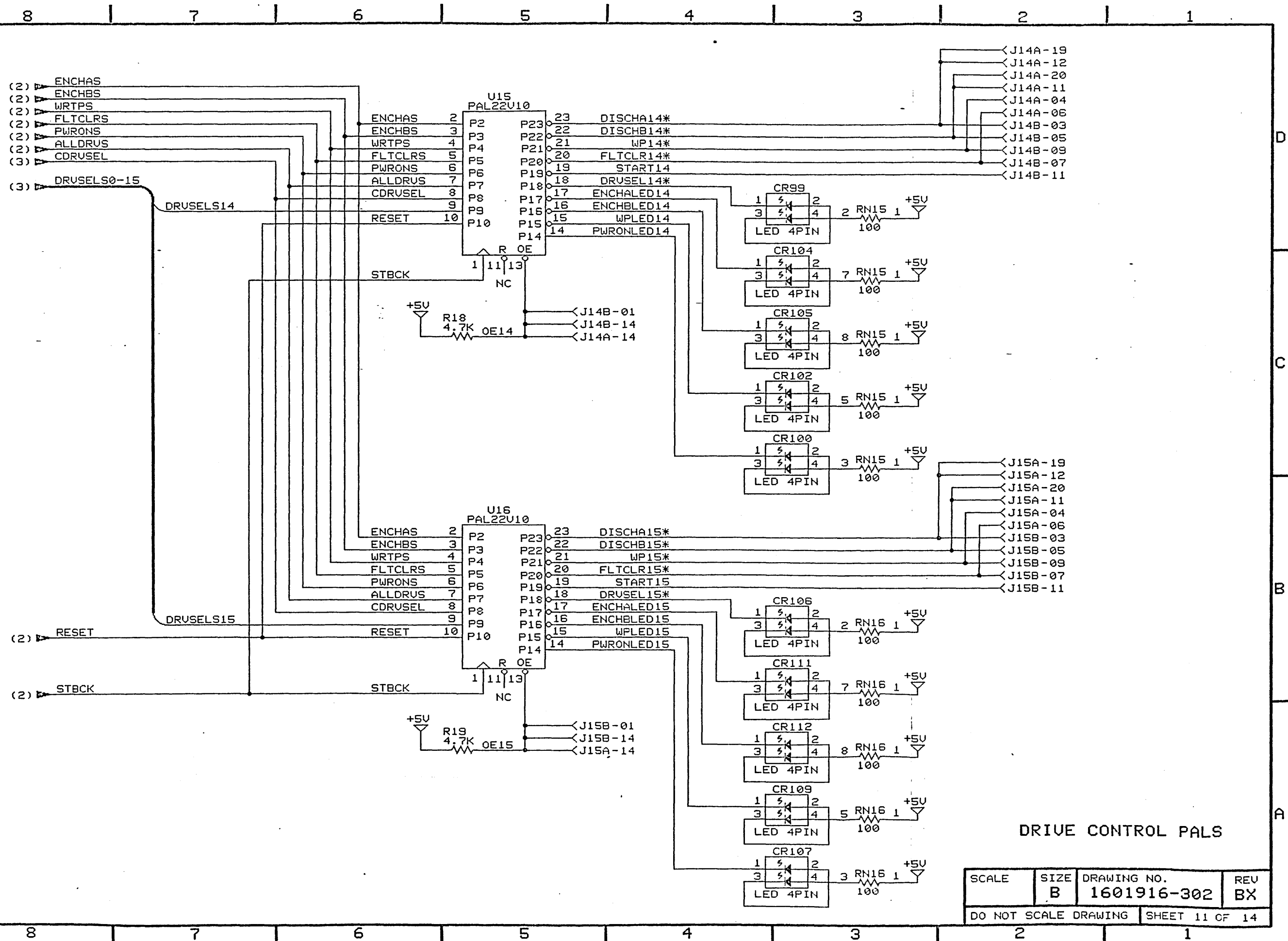
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	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 8 OF 14	

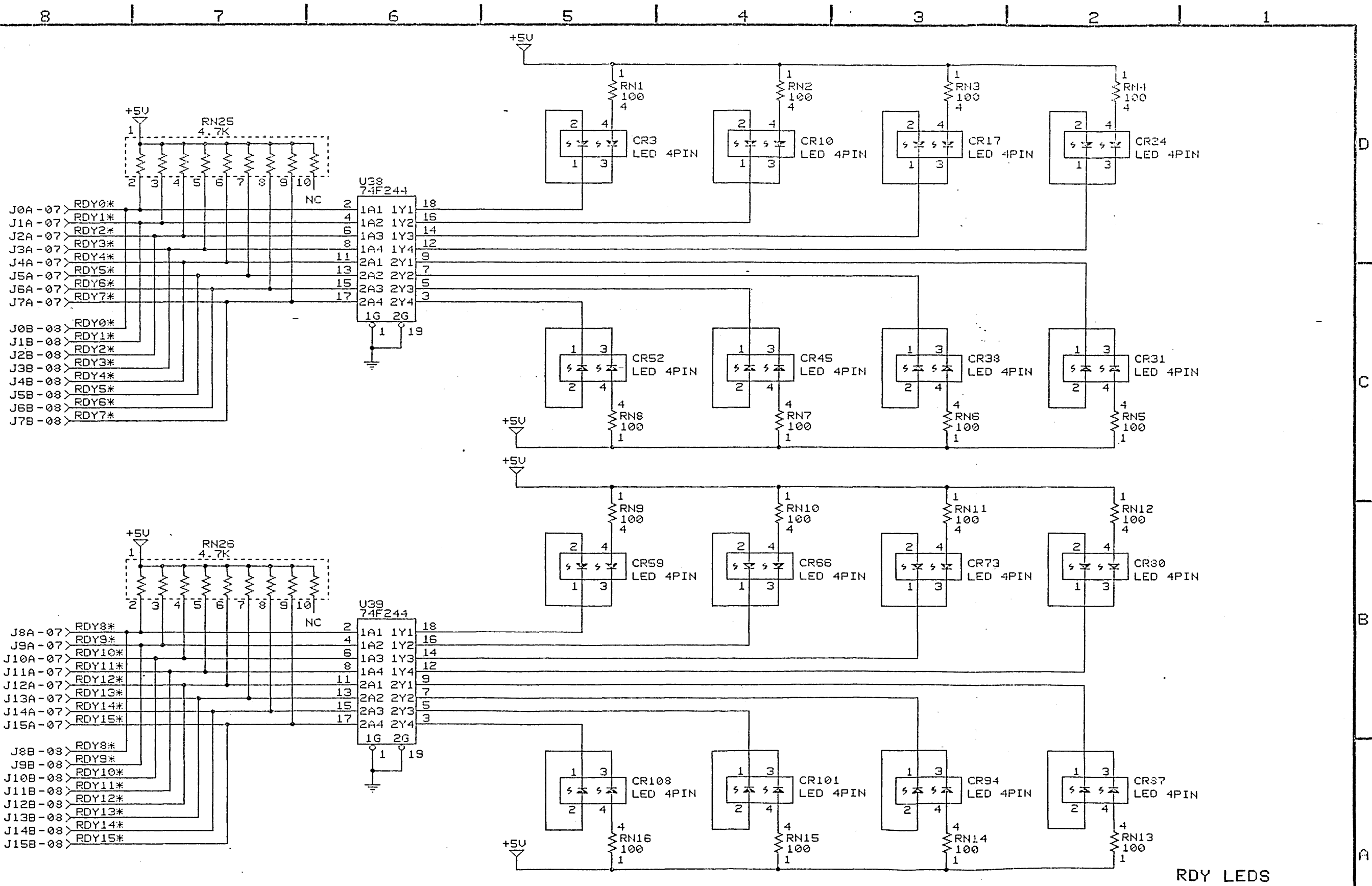




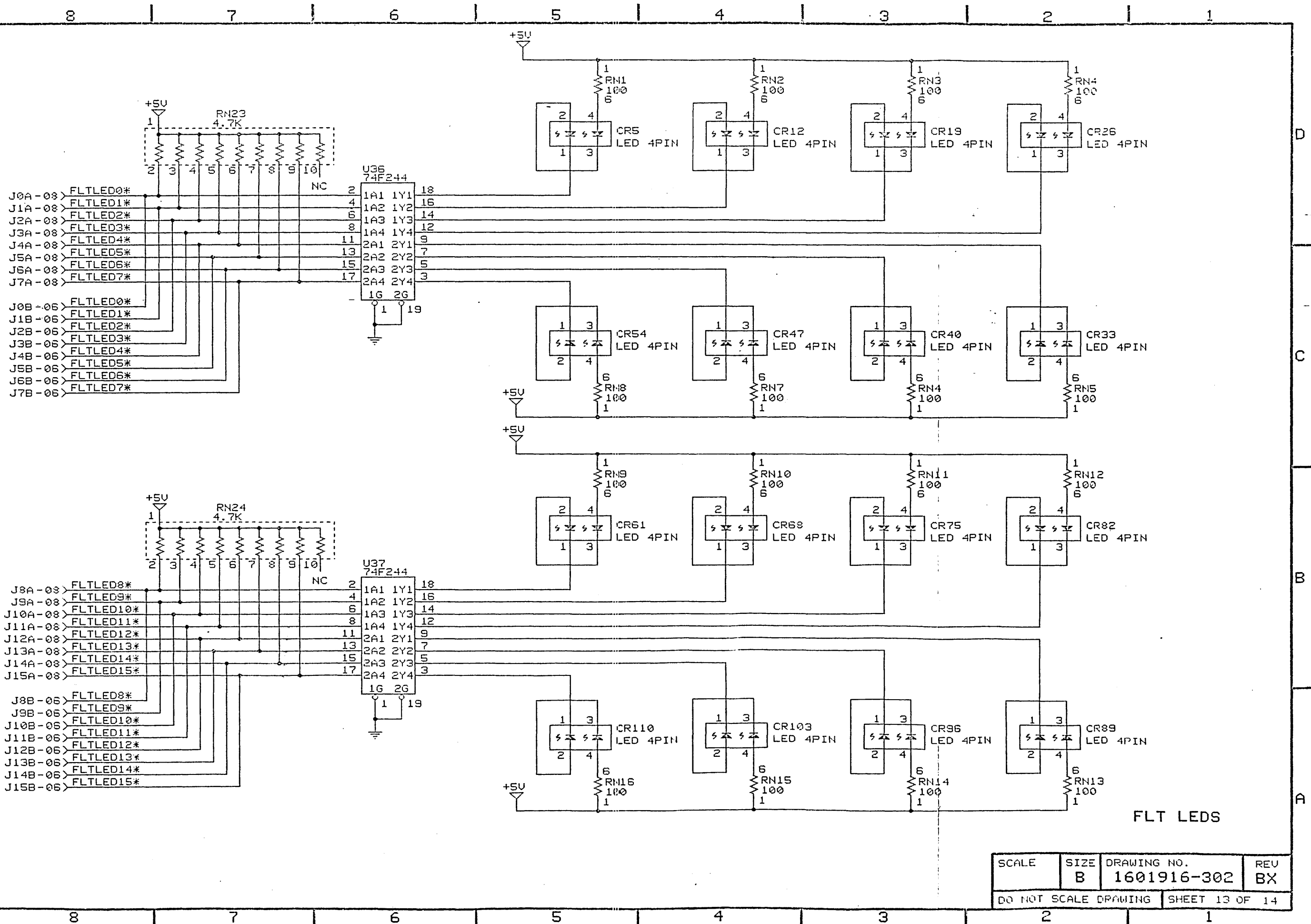
DRIVE CONTROL PALS

SCALE	SIZE	DRAWING NO.	REV
	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 10 OF 14	





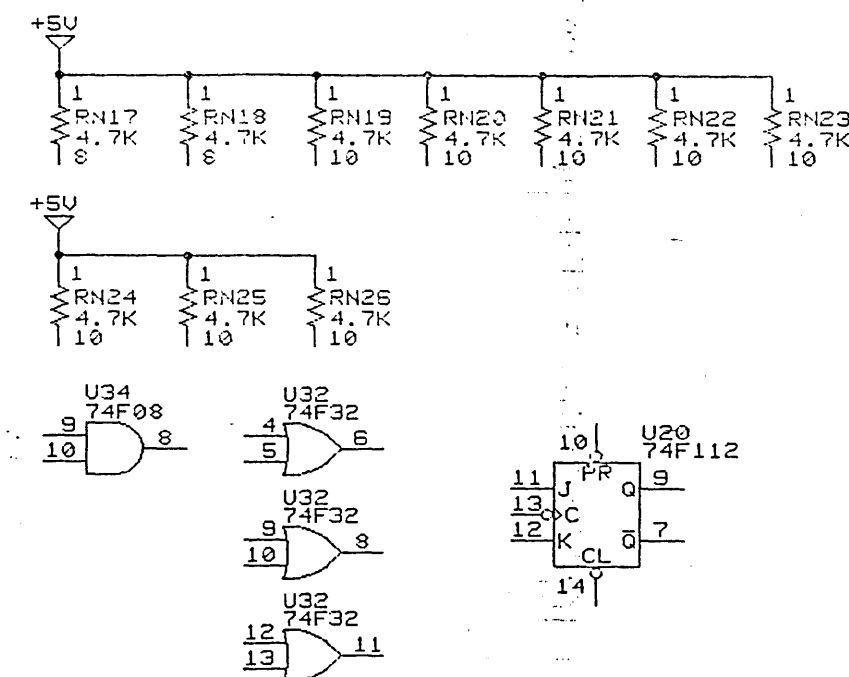
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	B	1601916-302	114
DO NOT SCALE DRAWING		SHEET 12 OF 14	



SCALE	SIZE	DRAWING NO.	REV
	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 13 OF 14	

DEVICE VOLTAGE TABLE			
DEVICE TYPE	GND	+5V	COMPONENT LOCATION
74F08	7	14	U34
74F112	8	16	U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28
74LS123	8	16	U33
74F244	10	20	U36, U37, U38, U39
74F32	7	14	U32
74HC4078	7	14	U29, U30, U31
PAL22V10A	12	24	U1, U2, U3, U4, U5, U6, U7, U8, U9 U10, U11, U12, U13, U14, U15, U16
TL7705A	4	8	U35
1000HM PU	-	1	RN1, RN2, RN3, RN4, RN5, RN6, RN7 RN8, RN9, RN10, RN11, RN12, RN13 RN14, RN15, RN16 (8P)
4.7K PU		1	RN17, RN18 (8P)
4.7K PU		1	RN19, RN20, RN21, RN22, RN23 RN24, RN25, RN26 (10P)

REF DESIGNATIONS	
LAST USED	NOT USED
C57	C1, C2, C6 C23, C24 C28, C32 C43, C44 C45, C46 C47, C48 C49, C50 C51, C52 C53, C54 C55
CR118	
J3	J1, J2
J15A	
J15B	
P1	
R20	
RN26	
SW21	
U39	



SPARE CONNECTOR PINS	
REF	OPEN PINS
J0A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J1A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J2A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J3A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J4A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J5A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J6A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J7A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26

SPARE CONNECTOR PINS	
REF	OPEN PINS
J8A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J9A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J10A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J11A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J12A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J13A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J14A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26
J15A	1, 2, 3, 5, 9, 10, 13, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26

SPARE CONNECTOR PINS	
REF	OPEN PINS
J0B	2, 4, 10, 12, 13
J1B	2, 4, 10, 12, 13
J2B	2, 4, 10, 12, 13
J3B	2, 4, 10, 12, 13
J4B	2, 4, 10, 12, 13
J5B	2, 4, 10, 12, 13
J6B	2, 4, 10, 12, 13
J7B	2, 4, 10, 12, 13
J8B	2, 4, 10, 12, 13
J9B	2, 4, 10, 12, 13
J10B	2, 4, 10, 12, 13
J11B	2, 4, 10, 12, 13
J12B	2, 4, 10, 12, 13
J13B	2, 4, 10, 12, 13
J14B	2, 4, 10, 12, 13
J15B	2, 4, 10, 12, 13

SCALE	SIZE	DRAWING NO.	REV
	B	1601916-302	BX
DO NOT SCALE DRAWING		SHEET 14 OF 14	