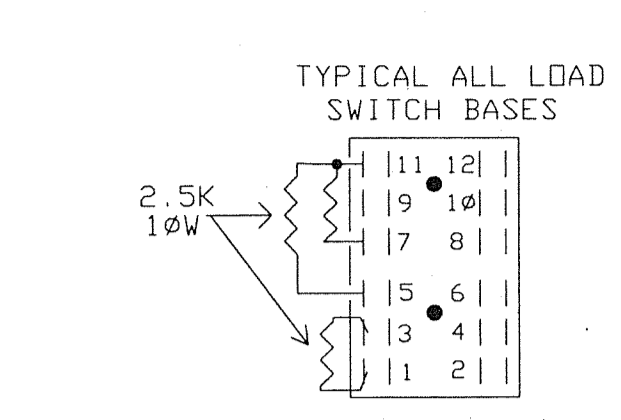


B	A	B	A
GND	0342	SA7-V	SA1-B
CH4	0341	SA7-U	54A
GND	0340	SA1-L	SA1-A
DC+	0339	SA7-R	SW6-3
CH3	0338	SA7-P	SA8-M
GND	0337	SA7-K	SA8-R
CH2	0336	SA7-J	SA8-K
GND	0335	404B, 372A	
DC+	0334	SA7-E	
CH1	0333	SA7-D	
	0332	SA5-V	
	0331	SA5-U	
GND	0330		
	0329	SA5-R	
	0328	SA5-P	
	0327	SA5-K	
	0326	SA5-J	
GND	0325		
	0324	SA5-E	
	0323	SA5-D	
	0322	SA3-V	
	0321	SA3-U	
GND	0320		
	0319	SA3-R	
	0318	SA3-P	
	0317	SA3-K	
	0316	SA3-J	
GND	0315		
	0314	SA3-E	
	0313	SA3-D	
	0312	SA1-V	
	0311	SA1-U	
GND	0310		
	0309	SA1-R	
	0308	SA1-P	
	0307	SA1-K	
	0306	SA1-J	
GND	0305	TGB1	
	0304	SA1-E	
	0303	SA1-D	
	0302	SAB-J	
	0301	SAB-D	
PPB	0299	PPBR4	
	0298	PPBR3	
	0297	PPBR2	
	0296	PPBR1	
	0295	PPBR5A	
	0294	PPBR5	
	0293	PPBR4	
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	0291	PPBR2	
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	0264	PPBR5	
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	0255	PPBR2	
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	0253	PPBR5A	
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	0008	PPBR1	
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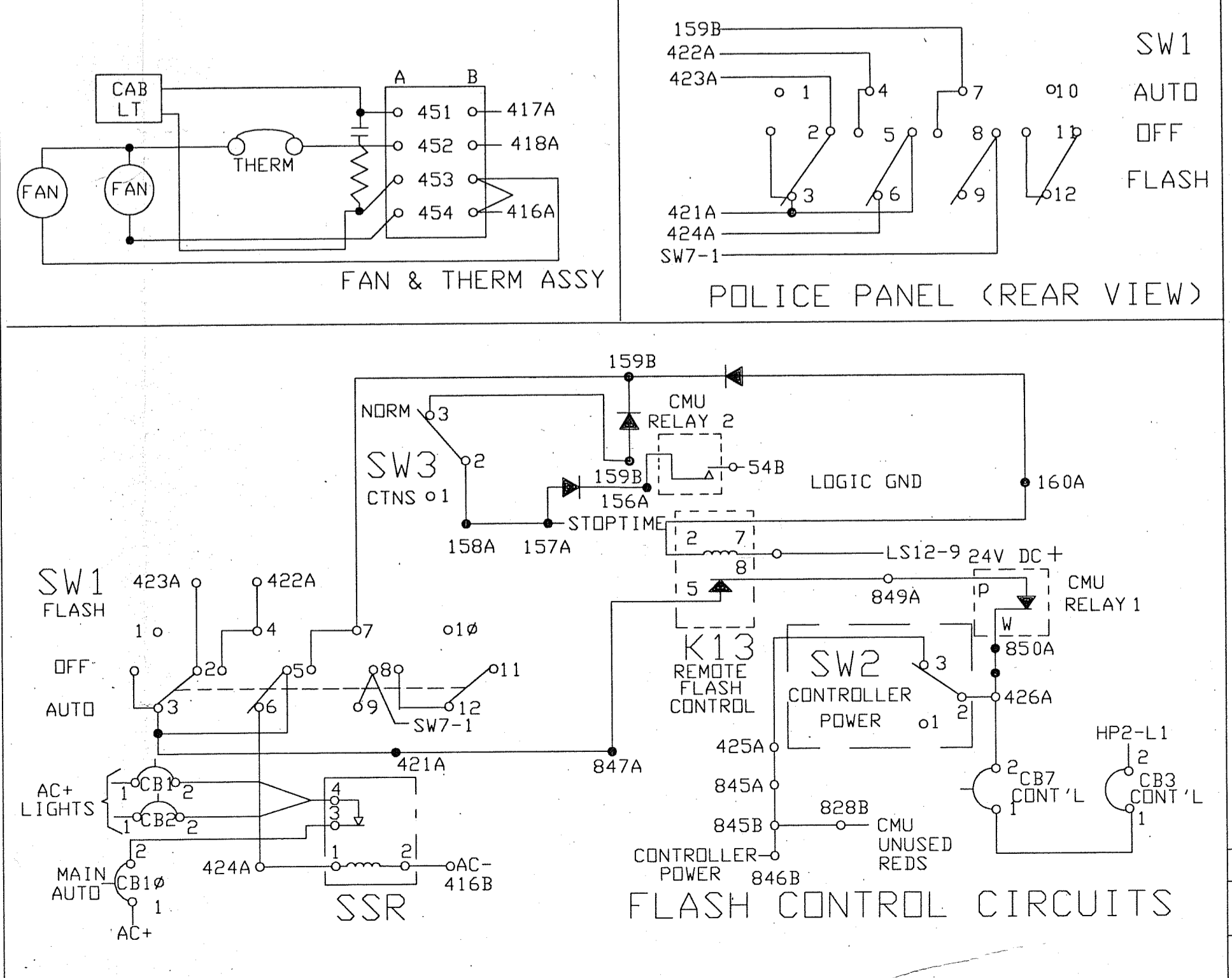
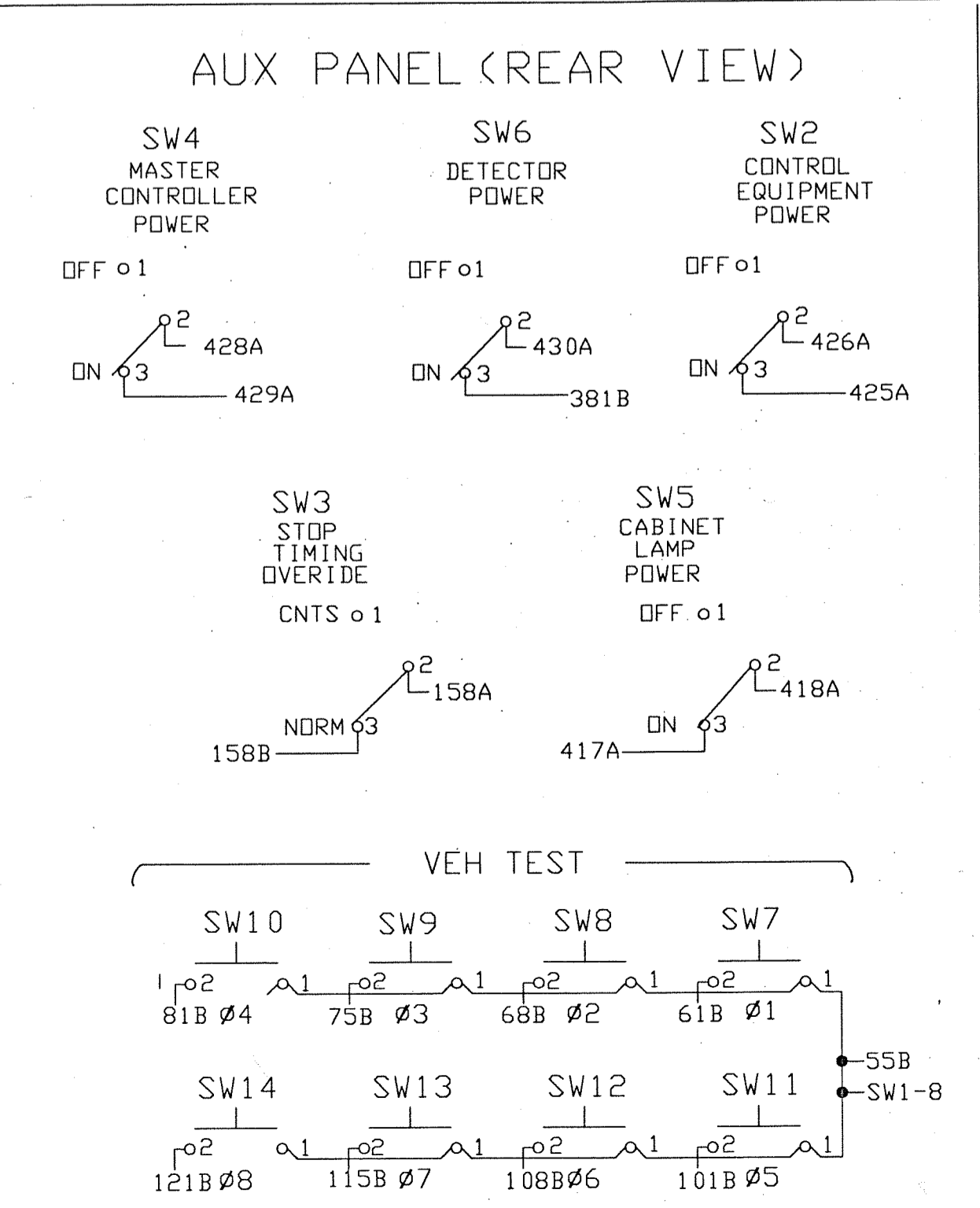
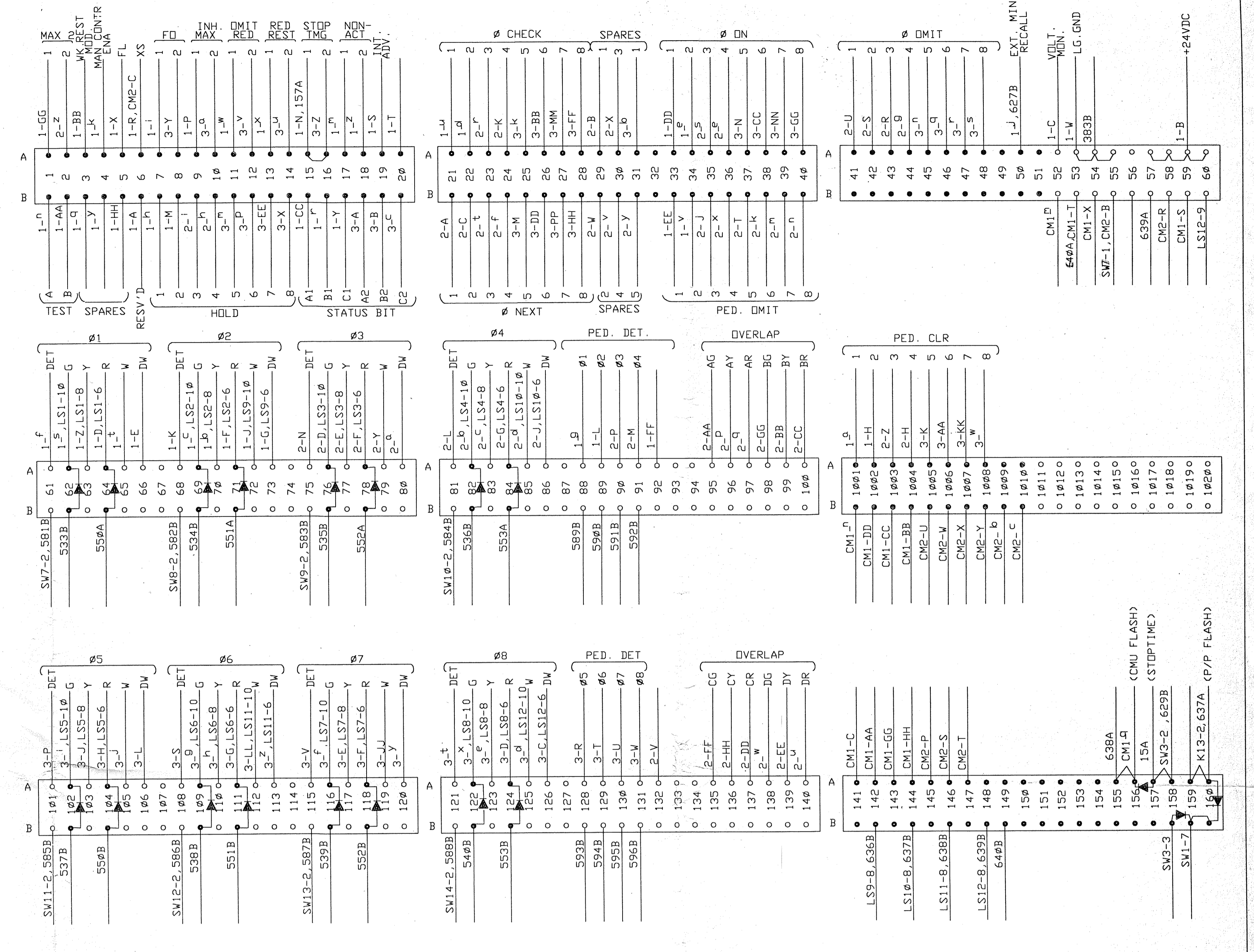
IN	OUT	POWER
GREEN / WALK	GREEN / WALK	+24 VDC
YELLOW/PED CLR	YELLOW	CHASSIS GROUND
RED/DON'T WALK	RED/DON'T WALK	AC NEUTRAL
		115 VAC

LS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CONT	1	2	3	4	5	6	7	8	2P	4P	6P	8P		
PLAN														
GREEN / WALK	10	62A	69A	76A	82A	102A	109A	116A	122A	72A	85A	112A	125A	
YELLOW/PED CLR	8	63A	70A	77A	83A	103A	110A	117A	123A	142B	144B	146B	148B	
RED/DON'T WALK	6	64A	71A	78A	84A	104A	111A	118A	124A	73A	86A	113A	126A	
GREEN / WALK	7	201A	207A	213A	219A	225A	231A	237A	243A	249A	255A	261A	267A	
YELLOW	5	FP1-13	FP2-13	FP3-13	FP4-13	FP5-13	FP6-13	FP7-13	FP8-13	251A	257A	263A	269A	
RED/DON'T WALK	3	FP1-1	FP2-1	FP3-1	FP4-1	FP5-1	FP6-1	FP7-1	FP8-1	253A	259A	265A	271A	
+24 VDC	9									K13-7				▷60B
CHASSIS GROUND	2													▷GB1
AC NEUTRAL	11	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1	NB1
115 VAC	1	SB1	SB1	SB2	SB2	SB1	SB1	SB2	SB2	SB1	SB2	SB1	SB2	SB1



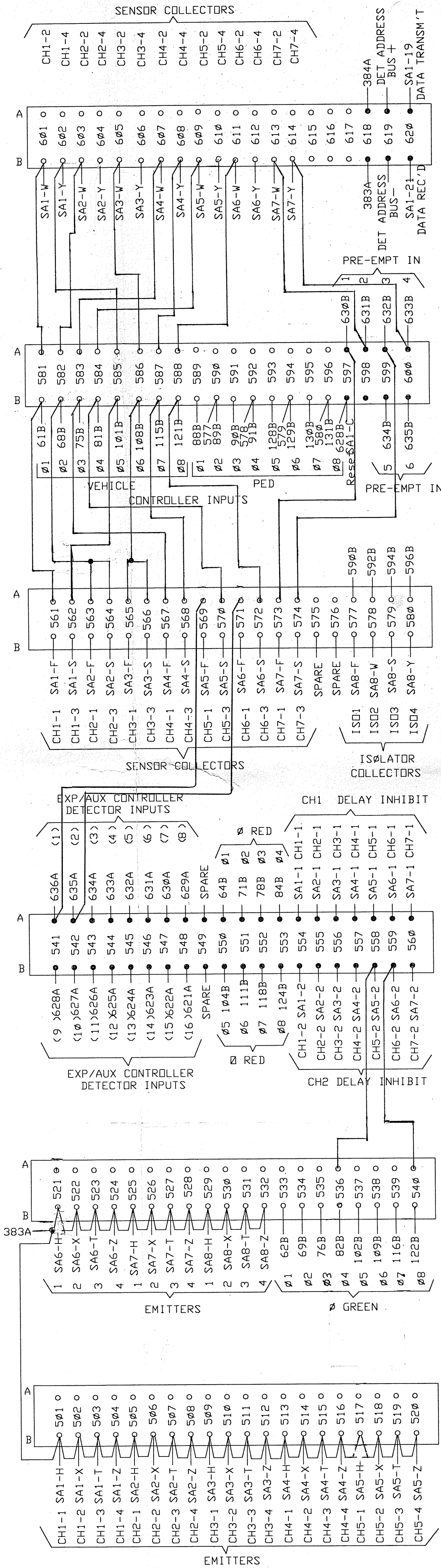
CONTROLLER INTERFACE PANEL

1	2	3
SHL SHELL GROUND 1-V	A1 #1 PHASE NEXT 21B	A1 STATUS BIT A2 18B
A1 RESV 6B	B1 SPARE 1 29A	B1 STATUS BIT B2 19B
B1 24VDC+ 59A	C1 #2 PHASE NEXT 22B	CL #8 DWK 126A
C1 VOLTAGE MONITOR 52A	DL #3 GRN 76A	DL #8 RED 124A
D1 #1 RED 64A	EL #3 YEL 117A	EL #7 YEL 118A
E1 #1 DWK 66A	FL #3 RED 77A	FL #7 RED 118A
F1 #2 RED 71A	GL #4 RED 78A	GL #6 RED 111A
G1 #2 DWK 73A	HL #4 PCL 84A	HL #5 RED 111A
H1 #2 PCL 1002A	IL #4 DWK 1004A	IL #5 YEL 104A
J1 #2 WK 72A	KL #4 CHECK 86A	KL #5 PCL 103A
K1 #2 VEH DET 68A	LL #4 VEH DET 81A	LL #5 DWK 1005A
L1 #2 PED DET 89A	ML #4 VEH DET 91A	ML #5 PHASE NEXT 106A
M1 #2 HDLD 88B	NL #4 PED DET 91A	NL #5 PHASE DN 25B
N1 STOP TIMING 1 15A	OL #4 PED DET 75A	OL #5 VEH DET 37A
P1 INHIBIT MAX TERM 1 9A	PL #3 PED DET 90A	PL #5 VEH DET 101A
R1 EXTERNAL START 6A	RL #3 PHASE OMIT 43A	RL #6 VEH DET 120A
S1 INTERVAL ADVANCE 19A	SL #2 PHASE OMIT 42A	SL #6 VEH DET 100A
T1 INDICATOR LAMP CONT 20A	TL #5 PED OMIT 37B	TL #6 PED DET 129A
U1 AC- NEUTRAL NB1	UL #1 PHASE OMIT 41A	UL #7 PED DET 130A
V1 CHASSIS GROUND GB1	VL PED RECYCLE 2 132A	VL #7 VEH DET 115A
W1 LOGIC GROUND 29B	WL SPARE 2 29B	WL #8 PED DET 131A
X1 FLASH LOGIC OUT 53A	XL SPARE 3 30A	XL #8 HOLD 14B
Y1 STATUS BIT C1 17B	YL #3 WK 79A	YL FORCE OFF 2 8A
Z1 #1 YEL 63A	ZL #3 PCL 1003A	ZL STOP TIME 2 16A
a1 PCL 1001A	al #3 DWK 80A	al INHIBIT MAX TERM 2 10A
b1 #2 YEL 70A	bl #4 GRN 82A	bl SPARE 1 31A
c1 #2 GRN 69A	cl #4 YEL 83A	cl STATUS BIT C2 20B
d1 #2 CHECK 22A	dl #4 WALK 85A	dl #8 WK 125A
e1 #2 PHASE DN 34A	el #4 PHASE DN 36A	el #7 GRN 123A
f1 #1 VEH DET 61A	fl #4 PHASE NEXT 24B	fl #7 GRN 116A
g1 #1 PED DET 88A	gl #4 PHASE OMIT 44A	gl #6 GRN 109A
h1 #1 HOLD 7B	hl #4 HOLD 10B	hl #6 YEL 110A
i1 FORCE OFF 1 7A	il #3 HOLD 9B	il #5 GRN 102A
j1 EXT MIN RECALL ALL 50A	jl #3 PED OMIT 35B	jl #5 WK 105A
k1 MAN. CONTROL ENABLE 4A	kl #6 PED OMIT 38B	kl #5 CHECK 25A
m1 CALL TO NON-ACT I 17A	ml #7 PED OMIT 39B	ml #5 HOLD 11B
n1 TEST INPUT A 1B	nl #8 PED OMIT 40B	nl #5 PHASE OMIT 45A
p1 AC+ CONTROL 846B	pl #1 A YEL 96A	pl #6 HOLD 12B
q1 SPARE 1 3B	ql #1 A RED 97A	ql #7 PHASE OMIT 46A
r1 STATUS BIT B1 16B	rl #3 CHECK 23A	rl #8 PHASE OMIT 47A
s1 #1 GRN 62A	sl #3 PHASE DN 35A	sl #8 PHASE OMIT 48A
t1 #1 WK 65A	tl #3 PHASE NEXT 23B	tl #8 VEH DET 121A
u1 #1 CHECK 21A	ul #1 D RED 140A	ul RED REST MODE 2 14A
v1 #2 PED OMIT 34B	vl SPARE 4 30B	vl OMIT RED CLR 2 12A
w1 OMIT RED CLR 11A	wl #1 D GRN 138A	wl #8 PCL 1008A
x1 RED REST MODE 1 13A	xl #4 PED OMIT 36B	xl #8 GRN 122A
y1 SPARE 2 4B	yl SPARE 5 31B	yl #7 DWK 120A
z1 CALL TO NON-ACT II 18A	zl #6 DWK 113A	zl #6 DWK 113A
AA1 TEST INPUT B 2B	AA1 #1 A GRN 95A	AA1 #6 PCL 1006A
BB1 WALK REST MODIFIER 3A	BB1 #1 B YEL 99A	BB1 #6 CHECK 26A
CC1 STATUS BIT A1 15B	CC1 #1 B RED 100A	CC1 #6 PHASE DN 38A
DD1 #1 PHASE DN 33A	DD1 #1 C RED 100A	DD1 #6 PHASE NEXT 38B
EE1 #1 PED OMIT 33B	EE1 #1 D YEL 139A	EE1 #7 HOLD 26B
FF1 PED RECYCLE 1 92A	FF1 #1 C GRN 135A	FF1 #8 CHECK 13B
GG1 MAX 2 SELECT 1A	GG1 #1 B GRN 98A	GG1 #8 PHASE DN 40A
HH1 SPARE 3 5B	HH1 #1 C YEL 136A	HH1 #8 PHASE NEXT 28B
		JJ1 #7 WK 119A
		KK1 #7 PCL 1007A
		LL1 #6 WK 112A
		MM1 #7 CHECK 27A
		NN1 #7 PHASE DN 39A
		PP1 #7 PHASE NEXT 27B



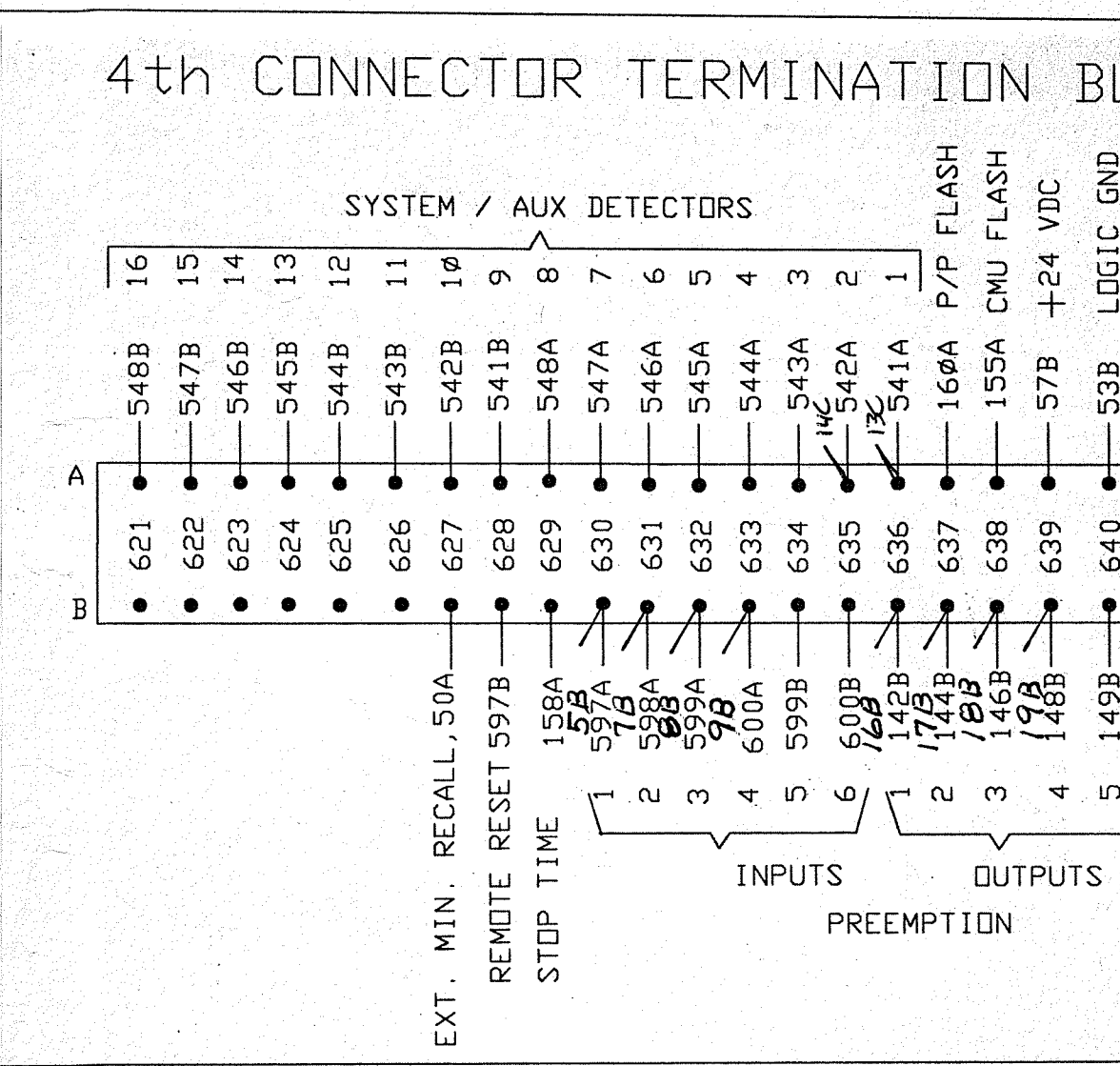
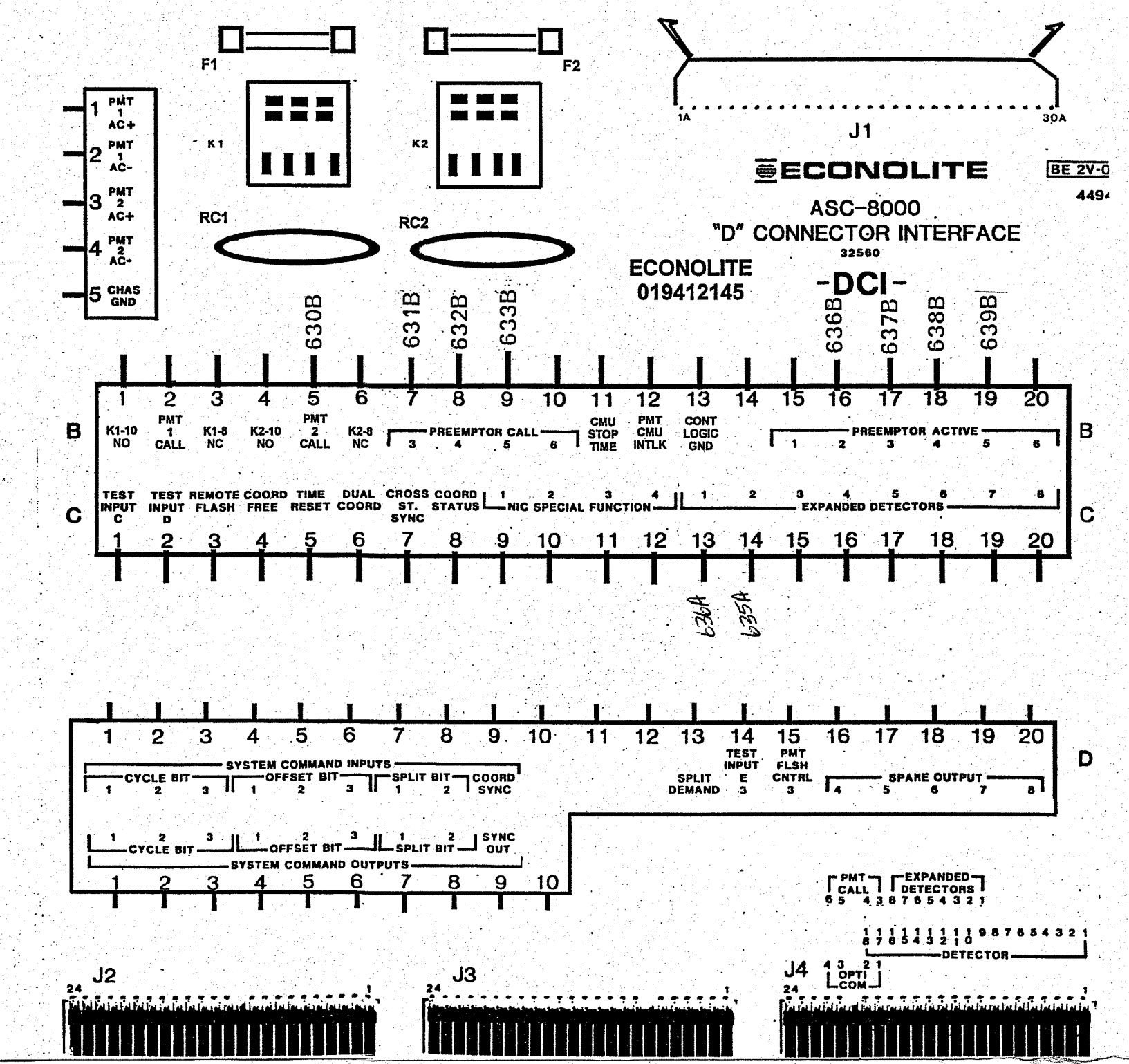
REV	DATE	REVISION
DRAWN	MPD	
<p>ACT Electronics, Inc.</p>		
<p>TITLE: MNDOT 1998 "R" & "P" CABINET</p>		
<p>SIZE: PARTS</p>		
<p>FOR: MNDOT</p>		
<p>SCALE: FILE ACT98R2 REV A SHEET 2 OF 3</p>		

SENSOR PROGRAM PANEL



SPECIAL FUNCTION MODULE PIN ASSIGNMENT 'D' CABLE 28022900-004

CONN.	FUNCTION	TERM.
1	EMERG. PR. 4 DUT	198
2	OFFSET 4 (ADD BIT 2)	130D
3	OFFSET 3 (ADD BIT 2)	80
4	OFFSET 2 (ADD BIT 2)	100
5	OFFSET 1 (ADD BIT 2)	80
6	OFFSET 0 (ADD BIT 2)	120
7	OFFSET 5 (ADD BIT 4)	180
8	OFFSET 4 (ADD BIT 4)	180
9	OFFSET 3 (ADD BIT 4)	180
10	OFFSET 2 (ADD BIT 4)	180
11	OFFSET 1 (ADD BIT 4)	180
12	OFFSET 0 (ADD BIT 4)	180
13	OFFSET 5 (ADD BIT 4)	180
14	OFFSET 4 (ADD BIT 4)	180
15	OFFSET 3 (ADD BIT 4)	180
16	OFFSET 2 (ADD BIT 4)	180
17	OFFSET 1 (ADD BIT 4)	180
18	OFFSET 0 (ADD BIT 4)	180
19	OFFSET 5 (ADD BIT 4)	180
20	OFFSET 4 (ADD BIT 4)	180
21	OFFSET 3 (ADD BIT 4)	180
22	OFFSET 2 (ADD BIT 4)	180
23	OFFSET 1 (ADD BIT 4)	180
24	OFFSET 0 (ADD BIT 4)	180
25	OFFSET 5 (ADD BIT 4)	180
26	OFFSET 4 (ADD BIT 4)	180
27	OFFSET 3 (ADD BIT 4)	180
28	OFFSET 2 (ADD BIT 4)	180
29	OFFSET 1 (ADD BIT 4)	180
30	OFFSET 0 (ADD BIT 4)	180
31	OFFSET 5 (ADD BIT 4)	180
32	OFFSET 4 (ADD BIT 4)	180
33	OFFSET 3 (ADD BIT 4)	180
34	OFFSET 2 (ADD BIT 4)	180
35	OFFSET 1 (ADD BIT 4)	180
36	OFFSET 0 (ADD BIT 4)	180
37	OFFSET 5 (ADD BIT 4)	180
38	OFFSET 4 (ADD BIT 4)	180
39	OFFSET 3 (ADD BIT 4)	180
40	OFFSET 2 (ADD BIT 4)	180
41	OFFSET 1 (ADD BIT 4)	180
42	OFFSET 0 (ADD BIT 4)	180
43	OFFSET 5 (ADD BIT 4)	180
44	OFFSET 4 (ADD BIT 4)	180
45	OFFSET 3 (ADD BIT 4)	180
46	OFFSET 2 (ADD BIT 4)	180
47	OFFSET 1 (ADD BIT 4)	180
48	OFFSET 0 (ADD BIT 4)	180
49	OFFSET 5 (ADD BIT 4)	180
50	OFFSET 4 (ADD BIT 4)	180
51	OFFSET 3 (ADD BIT 4)	180
52	OFFSET 2 (ADD BIT 4)	180
53	OFFSET 1 (ADD BIT 4)	180
54	OFFSET 0 (ADD BIT 4)	180
55	OFFSET 5 (ADD BIT 4)	180
56	OFFSET 4 (ADD BIT 4)	180
57	OFFSET 3 (ADD BIT 4)	180
58	OFFSET 2 (ADD BIT 4)	180
59	OFFSET 1 (ADD BIT 4)	180
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64	OFFSET 2 (ADD BIT 4)	180
65	OFFSET 1 (ADD BIT 4)	180
66	OFFSET 0 (ADD BIT 4)	180
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70	OFFSET 2 (ADD BIT 4)	180
71	OFFSET 1 (ADD BIT 4)	180
72	OFFSET 0 (ADD BIT 4)	180
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74	OFFSET 4 (ADD BIT 4)	180
75	OFFSET 3 (ADD BIT 4)	180
76	OFFSET 2 (ADD BIT 4)	180
77	OFFSET 1 (ADD BIT 4)	180
78	OFFSET 0 (ADD BIT 4)	180
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80	OFFSET 4 (ADD BIT 4)	180
81	OFFSET 3 (ADD BIT 4)	180
82	OFFSET 2 (ADD BIT 4)	180
83	OFFSET 1 (ADD BIT 4)	180
84	OFFSET 0 (ADD BIT 4)	180
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129	OFFSET 3 (ADD BIT 4)	180
130	OFFSET 2 (ADD BIT 4)	180
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300	OFFSET 0 (ADD BIT 4)	180



SA1 THROUGH SA7 ARE WIRED TO ACCEPT VEH. DET. OR E.V.P. DISCRIMINATOR OR PPB ISOLATOR.

MAIN I/O BLOCK	WIRE COLOR	SA I/O BLOCK	EDGE CONN.	SA1 - SA8								FUNCTIONS							
				PHASE	FUNC	DET	PHASE	FUNC	DET	PHASE	FUNC		DET	PHASE	FUNC	DET	PHASE	FUNC	DET
1	BLK/YEL	A	DC GROUND														NC	SPARE	A
2	RED	B	24V DC+														NC	SPARE	B
3	BLK/BLU	C	REMOTE RESET														NC	SPARE	C
4	BRN	D-4	CH 1 LOOP	303A	345A	313A	355A	323A	365A	333A	301A	INPUT CH 1	D						
5	DRANGE	E-5	CH 1 LOOP	304A	346A	314A	356A	324A	366A	334A	379A	INPUT COMMON	E						
6	WHT/BLU	F	CH 1 OUTPUT (+)	619B	SA1-15	SA2-10	SA3-15	SA4-15	SA5-10	SA6-15	NC	OUTPUT CH 1 (+)	F						
7	BLK/RED	H	CH 1 OUTPUT (-)	501B	505B	509B	513B	517B	521B	525B	529B	OUTPUT CH 1 (-)	H						
8	BLK/WHT	J-8	CH 2 LOOP	306A	348A	316A	358A	326A	368A	336A	302A	INPUT CH 2	J						
9	YELLOW	K-9	CH 2 LOOP	307A	349A	317A	359A	327A	369A	337A	379B	INPUT COMMON	K						
10	GREEN	L	CHASSIS GROUND	340A								CHASSIS GROUND	L						
11	WHITE	M																	