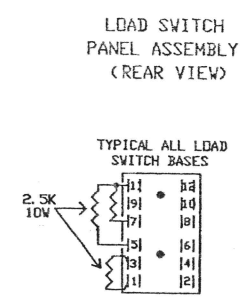


PLAN	CONT	LS											
		1	2	3	4	5	6	7	8	9	10	11	12
GREEN / WALK	10	62A	69A	76A	82A	102A	109A	116A	122A	72A	85A	112A	125A
YELLOW/PED CLR	8	63A	70A	77A	83A	103A	110A	117A	123A	142B	144B	146B	148B
RED/DON'T WALK	6	64A	71A	78A	84A	104A	111A	118A	124A	73A	86A	113A	126A
GREEN / WALK	7	201A	207A	213A	219A	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	LS2-9	LS3-9	LS4-9	LS5-9	LS6-9	LS7-9	LS8-9	LS9-9	LS10-9	LS11-9	LS12-9	LS13-9
CHASSIS GROUND	2	LS2-2	LS3-2	LS4-2	LS5-2	LS6-2	LS7-2	LS8-2	LS9-2	LS10-2	LS11-2	LS12-2	LS13-2
AC COMMON	11	NB3	FR1-2	NB3	NB3	NB3	NB3	NB3	NB3	NB3	NB3	NB3	NB3
115 VAC	1	SB1	SB1	SB1	SB1	SB1	SB1	SB1	SB1	SB1	SB1	SB1	SB1



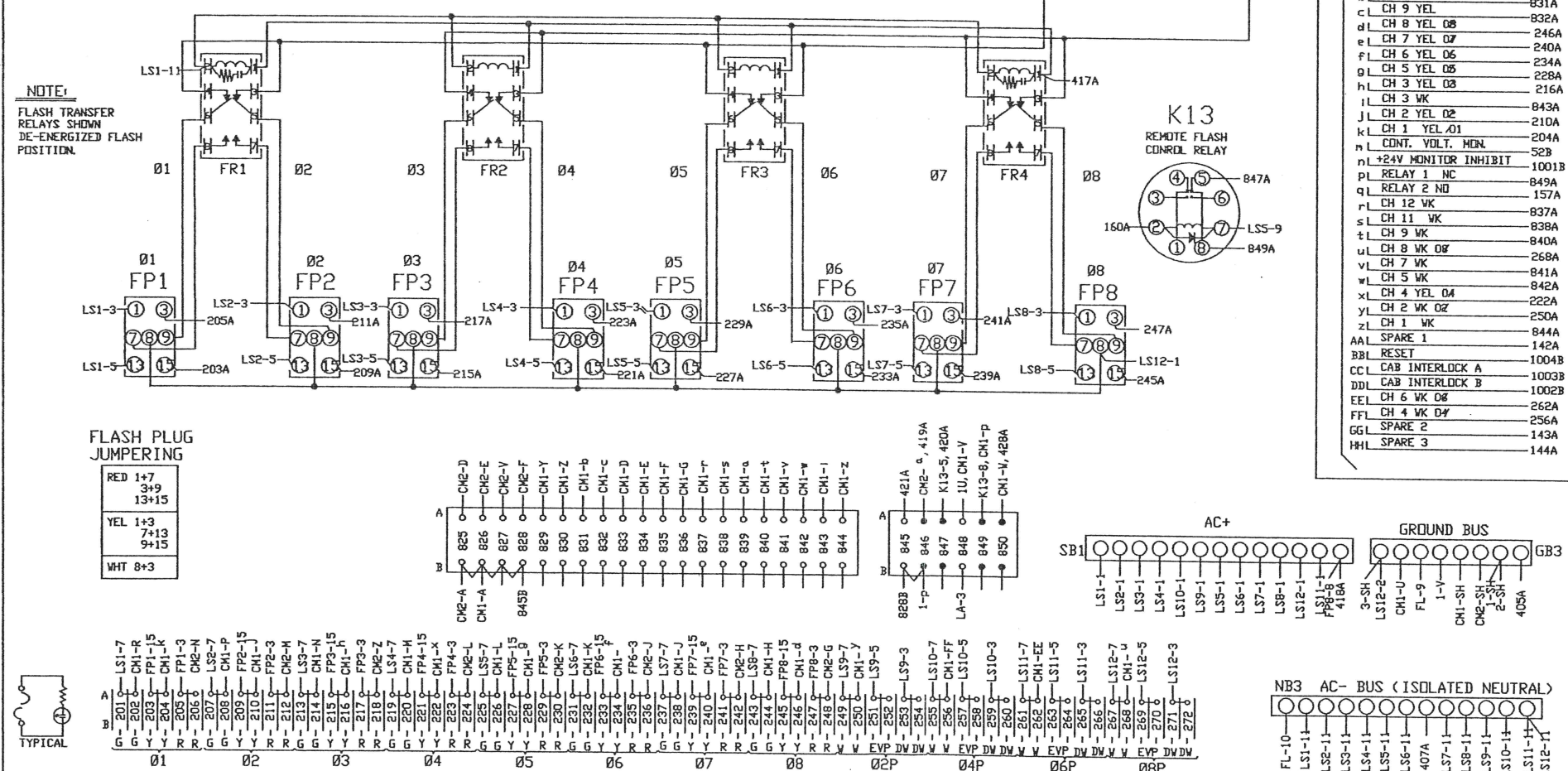
### NEMA+ 12CH CONFLICT MONITOR

CM1		CM2	
SH	SHELL GROUND	GB3	
A	AC +1	826B	
B	RELAY 1 NO	148A	
C	RELAY 2 NC	141A	
D	CH 12 GRN	833A	
E	CH 11 GRN	834A	
F	CH 10 GRN	835A	
G	CH 9 GRN	836A	
H	CH 8 GRN	837A	
I	CH 7 GRN	838A	
J	CH 6 GRN	839A	
K	CH 5 GRN	840A	
L	CH 4 GRN	841A	
M	CH 3 GRN	842A	
N	CH 2 GRN	843A	
P	CH 1 GRN	844A	
R	+24 VDC	208A	
S	+24 MONITOR	59B	
T	LDGIC GROUND	53B	
U	CHASSIS GROUND	SHELL	
V	AC-	848A	
W	RELAY 1 COMMON (AC+)	850A	
X	RELAY 2 COMMON (LGD)	54B	
Y	CH 12 YEL	829A	
Z	CH 11 YEL	830A	
a	CH 10 YEL	831A	
b	CH 9 YEL	832A	
c	CH 8 YEL	833A	
d	CH 7 YEL	834A	
e	CH 6 YEL	835A	
f	CH 5 YEL	836A	
g	CH 4 YEL	837A	
h	CH 3 YEL	838A	
i	CH 2 YEL	839A	
j	CH 1 YEL	840A	
k	CONT. VOLT. MON.	204A	
n	+24V MONITOR INHIBIT	1001B	
p	RELAY 1 NC	849A	
q	RELAY 2 NO	157A	
r	CH 12 WK	837A	
s	CH 11 WK	838A	
t	CH 10 WK	839A	
u	CH 9 WK	840A	
v	CH 8 WK	268A	
w	CH 7 WK	841A	
x	CH 6 WK	842A	
y	CH 5 WK	222A	
z	CH 4 WK	250A	
aa	SPARE 1	844A	
bb	RESET	142A	
cc	CAB INTERLOCK A	1004B	
dd	CAB INTERLOCK B	1003B	
ee	CH 6 WK	262A	
ff	CH 4 WK	256A	
gg	SPARE 2	143A	
hh	SPARE 3	144A	

### CONFLICT MONITOR MATRIX PROGRAMMING INSTRUCTIONS

1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	
1-3	2-4	3-5	4-6	5-7	6-8	7-9	8-10	9-11	10-12		
1-4	2-5	3-6	4-7	5-8	6-9	7-10	8-11	9-12			
1-5	2-6	3-7	4-8	5-9	6-10	7-11	8-12				
1-6	2-7	3-8	4-9	5-10	6-11	7-12				CH5-0_5	
1-7	2-8	3-9	4-10	5-11	6-12						CH6-0_6
1-8	2-9	3-10	4-11	5-12							CH7-0_7
1-9	2-10	3-11	4-12								CH8-0_8
1-10	2-11	3-12									CH9-0_9
1-11	2-12										CH10-0_10
1-12											CH11-0_11
											CH12-0_12

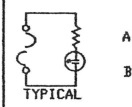
CHANNEL-0 COMBINATIONS NOT PINNED WITH MATRIX JUMPERS CONSTITUTE CONFLICTING MOVEMENTS. TO PROGRAM, CIRCLE PERMISSIVE COMBINATIONS AND INSTALL JUMPERS ON CORRESPONDING PINS ON THE PROGRAM CARD.



NOTE:  
FLASH TRANSFER RELAYS SHOWN DE-ENERGIZED FLASH POSITION.

#### FLASH PLUG JUMPING

RED	1+7
	3+9
	13+15
YEL	1+3
	7+13
	9+15
WHT	8+3



#### TIGHTENING TORQUE SPECIFICATIONS

SCREW SIZE	6-32	8-32	10-32
POUND INCHES	12	16	25, 9
LOCK TYPE	SAK36	RAK6-10	SAK35N
POUND INCHES	10, 5	16	35
LOCK TYPE	ND-36		
POUND INCHES	35		

#### EVP SENSORS

CABLE	DISCR. CHAN.	PHASES	POLE#	SIGNAL	TERMINAL
32	1	6	3	333	334 337
11	2	2	1	336	334 337
12	3	8	4	338	339 342
31	4	4	2	341	339 342

#### EVP VERIFY LIGHTS

CABLE	CONTR. CHAN.	PHASES	POLE#	TERM
30	3	6	3	251
9	4	2	1	257
10	5	8	4	263
29	6	4	2	269

#### VEHICLE SIGNALS

CABLE	SIGNAL	TERMINAL		
		G	Y	R
1	2-1	207	209	211
1	2-2	208	210	212
2	2-3	207	209	211
4	2-4	208	210	212
21	4-1	219	221	223
22	4-2	220	222	224
2	4-3	219	221	223
23	4-4	220	222	224
23	6-1	231	233	235
23	6-2	232	234	236
24	6-3	201	203	231 233 235
22	6-4	202	204	232 234 236
3	8-1	243	245	247
4	8-2	244	246	248
24	8-3	243	245	247

SIGNAL HEAD NEUTRALS TO BE TERMINATED ON FNB1

#### VEH DETECTORS

CABLE	DET	TERMINAL
13	1-1	303, 304
14	1-2	306, 307
38	2-1	345, 346
39	2-2	348, 349
17	4-1	313, 314
46	4-2	316, 317
19	4-3	355, 356
20	4-4	358, 359
18	4-5	360, 361
36	5-1	308, 309
37	5-2	311, 312
15	6-1	350, 351
16	6-2	353, 354
33	8-1	323, 324
34	8-2	326, 327
35	8-3	365, 366

LOOP LEAD IN DRAIN WIRES ARE TO BE CONNECTED TO GREEN/YEL TERMINAL BLOCKS ONLY

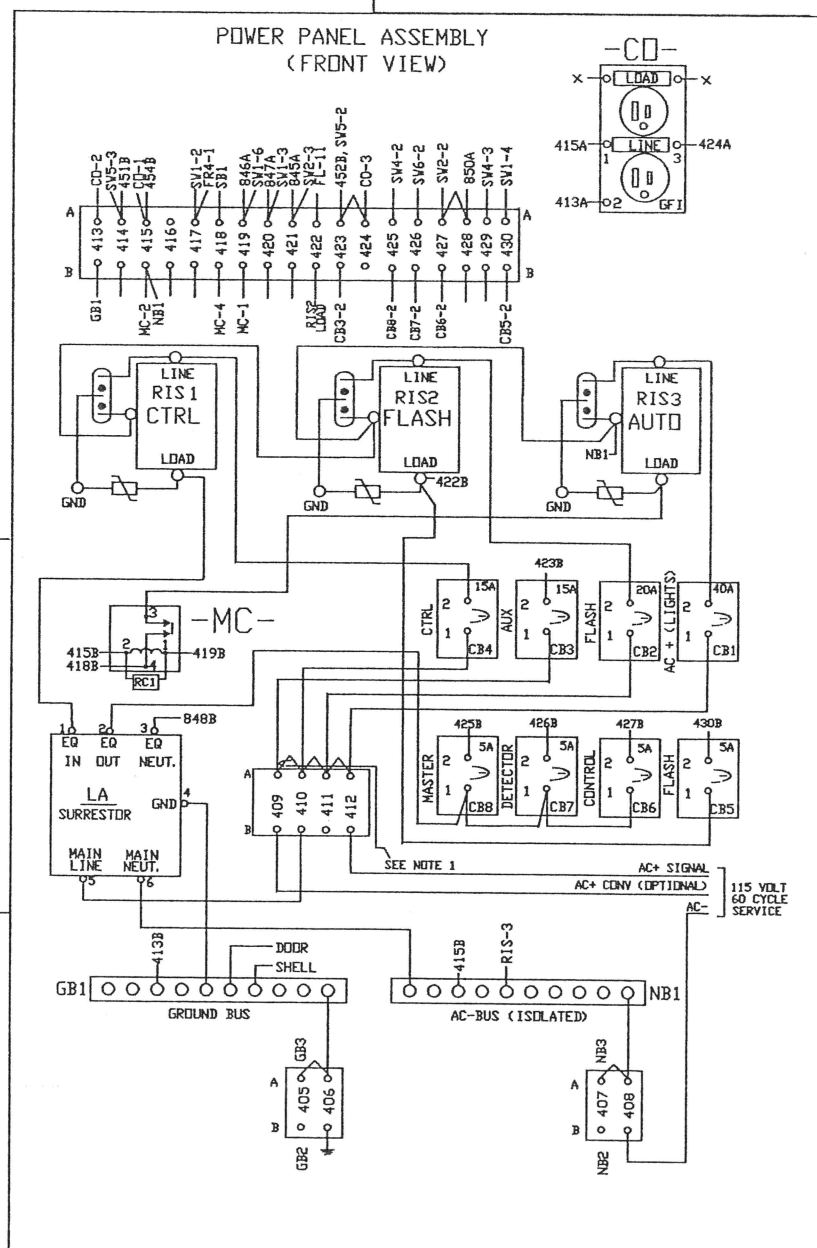
#### PED SIGNALS

SIGNAL	TERMINAL
P2-1	249 253
P2-2	250 254
P4-1	255 259
P4-2	256 260
P6-1	261 265
P6-2	262 266
P8-1	267 271
P8-2	268 272

PED HEAD NEUTRALS TO BE TERMINATED ON FNB1

#### PED PUSHBUTTONS

PPB	TERMINAL
PB2-1, 2	301
PB4-1, 2	302
PB6-1, 2	343
PB8-1, 2	344



#### REV. STATUS OF SHEETS

SHEET	1	2	3
REV	F	F	F
DRAWN BY	Mike Olsen		
CHECKED BY			

ACT ELECTRONICS  
 1992 87th at Washington  
 REV-F  
 SHEET NO. 1 OF 3



