

MAIN PANEL 34810G4

ASC/2S-1000 CONTROLLER WITH:	LEGEND																																										
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> CONFIGURATION EEPROM 32790C7800 <input checked="" type="checkbox"/> SOFTWARE: V1.70 <input type="checkbox"/> SPECIAL SOFTWARE: FUNCTION <input type="checkbox"/> OVERLAPS <ul style="list-style-type: none"> <input type="checkbox"/> IN EEPROM <input type="checkbox"/> KEYBOARD ENTERED <input type="checkbox"/> ANALOG TELEMETRY MODULE: 32825G1 <input checked="" type="checkbox"/> F/O TELEMETRY MODULE: 33525G1 <input type="checkbox"/> TEST INPUT A = <input type="checkbox"/> TEST INPUT B = 	<table border="0"> <tr> <td>BIU</td> <td>BUS INTERFACE UNIT</td> </tr> <tr> <td>BU()</td> <td>C/C, BIU ()</td> </tr> <tr> <td>CB()</td> <td>CIRCUIT BREAKER ()</td> </tr> <tr> <td>C/C</td> <td>CONNECTING CABLE</td> </tr> <tr> <td>CCA</td> <td>CONTROLLER CABLE "A"</td> </tr> <tr> <td>CDP</td> <td>C/C, DR POWER</td> </tr> <tr> <td>CMA</td> <td>MMU/CMU CABLE "A"</td> </tr> <tr> <td>CMB</td> <td>MMU/CMU CABLE "B"</td> </tr> <tr> <td>CPO</td> <td>C/C PRE-EMPT OUTPUTS</td> </tr> <tr> <td>CPP</td> <td>C/C PRE-EMPT POWER</td> </tr> <tr> <td>DR</td> <td>DETECTOR RACK</td> </tr> <tr> <td>DS()</td> <td>DOOR SWITCH ()</td> </tr> <tr> <td>FL()</td> <td>FLASHER ()</td> </tr> <tr> <td>FR()</td> <td>FLASH XFER. RELAY</td> </tr> <tr> <td>LS()</td> <td>LOAD SWITCH</td> </tr> <tr> <td>MC</td> <td>MERCURY CONTACTOR</td> </tr> <tr> <td>MP</td> <td>MAIN PANEL</td> </tr> <tr> <td>PAP</td> <td>POWER-AUX PANEL</td> </tr> <tr> <td>PSP</td> <td>CAB. PWR. SUPPLY</td> </tr> <tr> <td>SA</td> <td>SURGE ARRESTOR</td> </tr> <tr> <td>TB-()</td> <td>TERM. BLOCK ()</td> </tr> </table>	BIU	BUS INTERFACE UNIT	BU()	C/C, BIU ()	CB()	CIRCUIT BREAKER ()	C/C	CONNECTING CABLE	CCA	CONTROLLER CABLE "A"	CDP	C/C, DR POWER	CMA	MMU/CMU CABLE "A"	CMB	MMU/CMU CABLE "B"	CPO	C/C PRE-EMPT OUTPUTS	CPP	C/C PRE-EMPT POWER	DR	DETECTOR RACK	DS()	DOOR SWITCH ()	FL()	FLASHER ()	FR()	FLASH XFER. RELAY	LS()	LOAD SWITCH	MC	MERCURY CONTACTOR	MP	MAIN PANEL	PAP	POWER-AUX PANEL	PSP	CAB. PWR. SUPPLY	SA	SURGE ARRESTOR	TB-()	TERM. BLOCK ()
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MAIN PANEL PLUG-IN REQUIREMENTS

<input checked="" type="checkbox"/> BIU2 T&F	<input type="checkbox"/> BIU3 T&F	<input checked="" type="checkbox"/> LS9 PED 2 BEACONS	<input checked="" type="checkbox"/> LS10 PED 4 BEACONS	<input checked="" type="checkbox"/> LS11 PED 6 BEACONS	<input checked="" type="checkbox"/> LS12 PED 8 BEACONS	<input type="checkbox"/> LS13 OL "A"	<input type="checkbox"/> LS14 OL "B"	<input type="checkbox"/> LS15 OL "C"	<input type="checkbox"/> LS16 OL "D"
<input type="checkbox"/> BIU1 T&F	<input checked="" type="checkbox"/> LS1 VEH 1	<input checked="" type="checkbox"/> LS2 VEH 2	<input checked="" type="checkbox"/> LS3 VEH 3	<input checked="" type="checkbox"/> LS4 VEH 4	<input checked="" type="checkbox"/> LS5 VEH 5	<input checked="" type="checkbox"/> LS6 VEH 6	<input checked="" type="checkbox"/> LS7 VEH 7	<input checked="" type="checkbox"/> LS8 VEH 8	<input type="checkbox"/> FL1
<input type="checkbox"/> FR1 L/R V1 V5	<input checked="" type="checkbox"/> FR2 L/R V2 V6	<input type="checkbox"/> FR3 L/R V3 V7	<input checked="" type="checkbox"/> FR4 L/R V4 V8	<input type="checkbox"/> FR5 L/R A C	<input type="checkbox"/> FR6 L/R B D	<input checked="" type="checkbox"/> K1	<input type="checkbox"/> LS 24V CONT.		

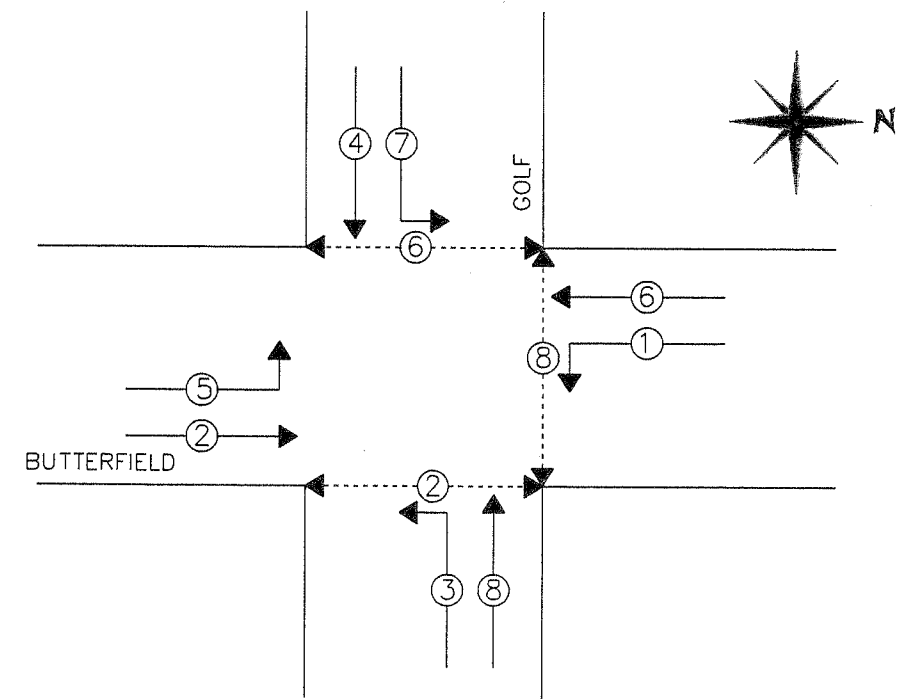
DENOTES TYPE OF OPERATION AND/OR WHERE PLUG-IN IS REQUIRED. L = LEFT, R = RIGHT.
 DENOTES WHERE "UNUSED RED" JUMPER IS REQUIRED. INSTALL BETWEEN PINS 1 & 3 FOR LOAD SWITCH OR PINS 6 & 8 AND 5 & 7 FOR FLASH TRANSFER RELAY.

FLASH:
 YELLOW, ALL OTHERS RED
 ALL RED.
 RELAYS DE-ENERGIZED FOR FLASH.
 RELAYS ENERGIZED FOR FLASH.

FLASHER	
PIN	FUNCTION
7	CIRCUIT #1
8	CIRCUIT #2
9	CHASSIS GND
10	AC COMMON
11	115 VAC
12	-----

LOAD SWITCH	
PIN	FUNCTION
1	115 VAC
2	CHASSIS GND
3	RED/DW OUTPUT
4	-----
5	YEL OUTPUT
6	RED/DW INPUT
7	GRN/W OUTPUT
8	YEL INPUT
9	+24 VDC
10	GRN/W INPUT
11	AC COMMON
12	-----

①
2.2K
10W



SHEET 1 OF 11

3 USE ONLY COPPER CONDUCTORS FOR FIELD AND SERVICE CONNECTIONS.

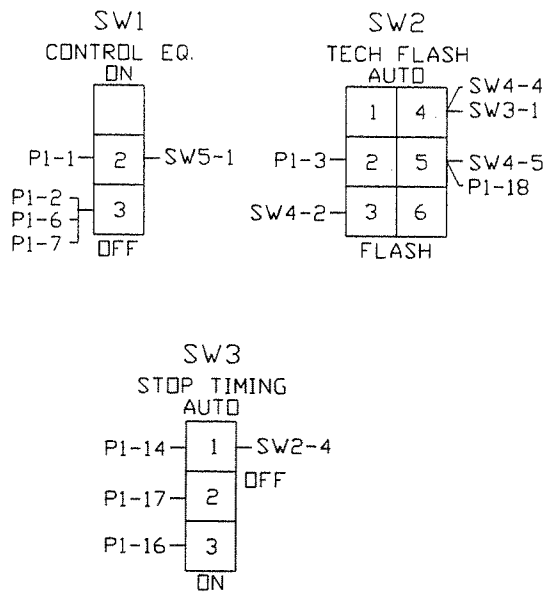
2 CONNECT A.C. SERVICE TO TERMINAL BLOCK 501 (LINE), 502 (NEUTRAL) AND GB2 (EARTH) ON RIGHT SIDEWALL OF CABINET.

① INSTALL 2.2K, 10 WATT LOAD RESISTORS BETWEEN PINS 7 AND 11 ON LOAD SWITCHES 9, 10, 11 & 12.

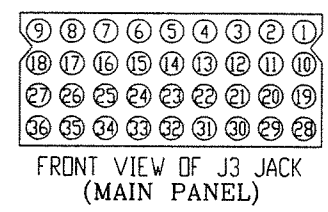
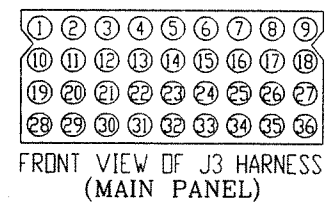
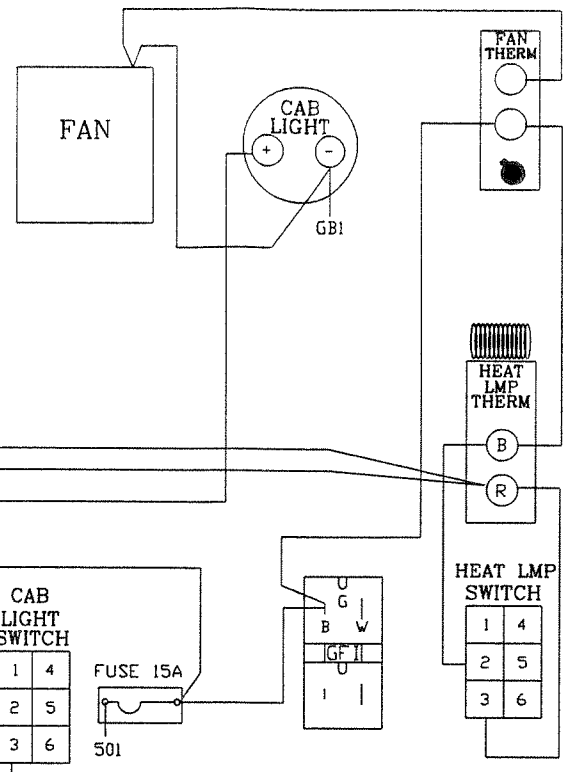
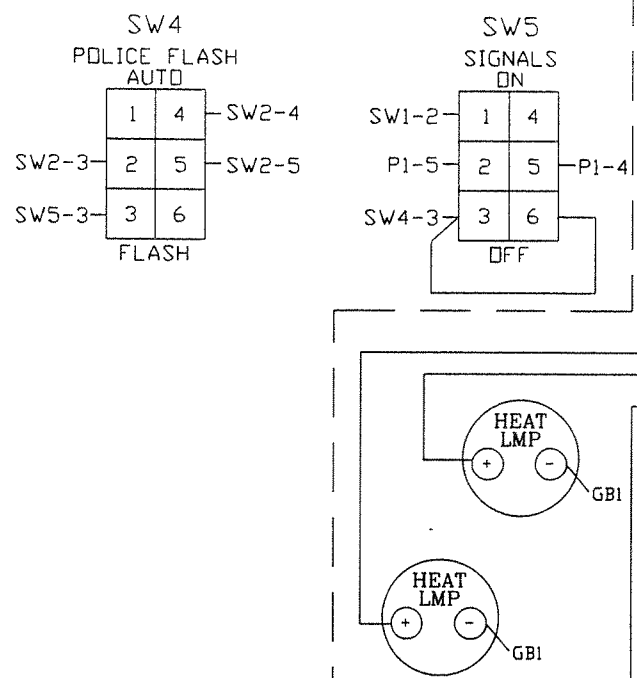
NOTES: UNLESS SPECIFIED OTHERWISE

DESIGNER G.V. T.C.C.	DATE 02/03/97	ECONOLITE CONTROL PRODUCTS INC.	TRAFFIC CONTROL CORPORATION	780 W. BELDEN SUITE D ADDISON, IL 60101	
DRAWN EH TCC	7/15/03			CABINET SPECIFICATION: TS2TYPE1 99 SPEC PLUG AND GO	
CAB SIZE:	P	CUSTOMER: LAKE COUNTY			CONTROLLER
INSPECTED		INTERSECTION: BUTTERFIELD RD @ GOLF RD			FLASHER
APPROVED		LOCATION: LIBERTYVILLE			SW.PACKS
CUST PO 21653	INSTALLED BY HOMETOWNE	SALES ORDER NO. 771301-A-IL8272	SIZE B	DRAWING #TS29916PGIL8272A BUTTERFIELD @ GOLF	REV.

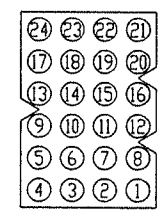
AUXILLARY SWITCH PANEL



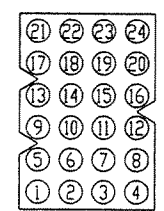
POLICE SWITCH PANEL



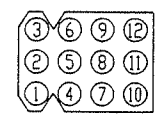
J3	P1		
J3-36	1 FILTER AC LINE (OUT)	P1-1	SW1-2
MMB-1	2 SWITCHED AC LINE (IN)	P1-2	SW1-3
MMA-37	3 FLASH CONTROL BUS (OUT)	P1-3	SW2-3
K1-10	4 SIGNAL BUS CONTROL (IN)	P1-4	SW5-5
FR6-2	5 FLASH RELAY CONTROL (IN)	P1-5	SW5-2
MMB-2	6 START DELAY AC BUS (IN)	P1-6	SW1-3
MMA-20	7 MMU FLASH CONTROL BUS (IN)	P1-7	SW1-3
	8 SPARE	P1-8	----
	9 SPARE	P1-9	----
	10 SPARE	P1-10	----
	11 SPARE	P1-11	----
	12 SPARE	P1-12	----
A-39	13 OPT-MANUAL CONT. ENABLE (IN)	P1-13	----
A-35	14 LOGIC GROUND	P1-14	SW3-1
A-40	15 OPT-INTERVAL ADVANCE (IN)	P1-15	----
A-31	16 MMU STOP TIME (OUT)	P1-16	SW3-3
A-30	17 CONTROLLER STOP TIME (IN)	P1-17	SW3-2
A-32	18 LOCAL FLASH STATUS (IN)	P1-18	SW2-5
A-38	19 OPT-COORD FREE (IN)	P1-19	----
A-33	20 OPT-ALARM 1 (IN)	P1-20	----
A-34	21 OPT-ALARM 2 (IN)	P1-21	----
K1-9	22 OPT-LOADSWITCH TEST (IN)	P1-22	----
B-3	23 MMU 24V MON. 2 (IN)	P1-23	----
B-4	24 +24 VDC	P1-24	----



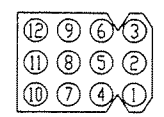
FRONT VIEW OF J1 HARNESS (SWITCH PANEL)



FRONT VIEW OF J1 JACK (SWITCH PANEL)



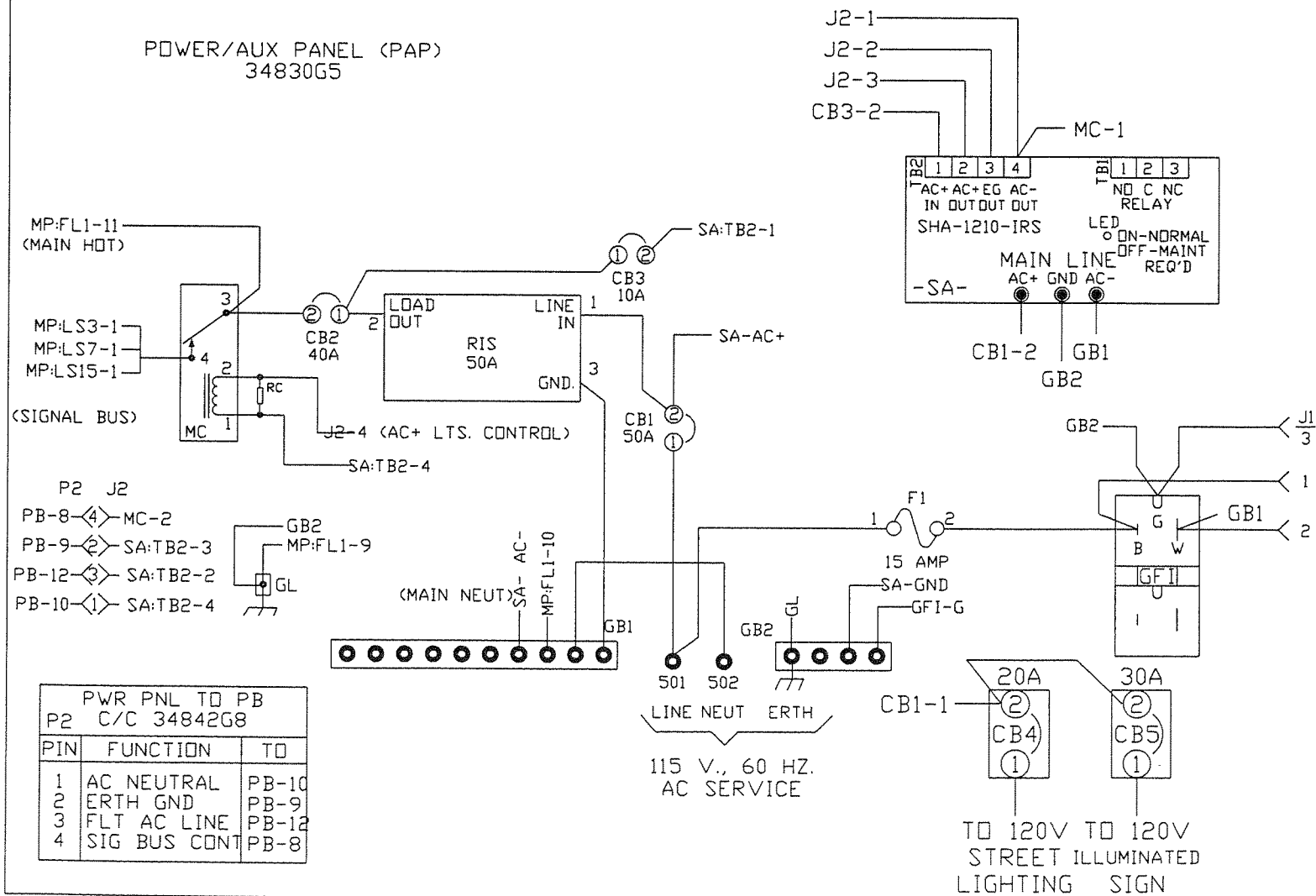
FRONT VIEW OF J1-J6 HARNESSES (POWER BUS PANEL)



FRONT VIEW OF J1-J6 JACKS (POWER BUS PANEL)

J3	J1		
A-35	25 LOGIC GROUND	J1-1	TB1-1
K1-11	26 +24 VDC (IN)	J1-2	TB1-2
	27 ----	J1-3	TB1-3
B-5	28 MMU FAULT MONITOR (IN)	J1-4	TB1-4
J1-31B	29 LINE FREQ. REFERENCE (IN)	J1-5	TB1-5
	30 ----	J1-6	TB1-6
J1-27B	31 +12 VAC (IN)	J1-7	TB1-7
K1-10	32 SIGNAL BUS CONTROL (IN)	J1-8	TB1-8
	33 ----	J1-9	TB1-9
K1-2	34 FILTERED AC NEUTRAL (IN)	J1-10	TB1-10
MMB-18	35 CONT. EQUIP. AC LINE (OUT)	J1-11	TB1-11
J3-1	36 FILTERED AC LINE (IN)	J1-12	TB1-12

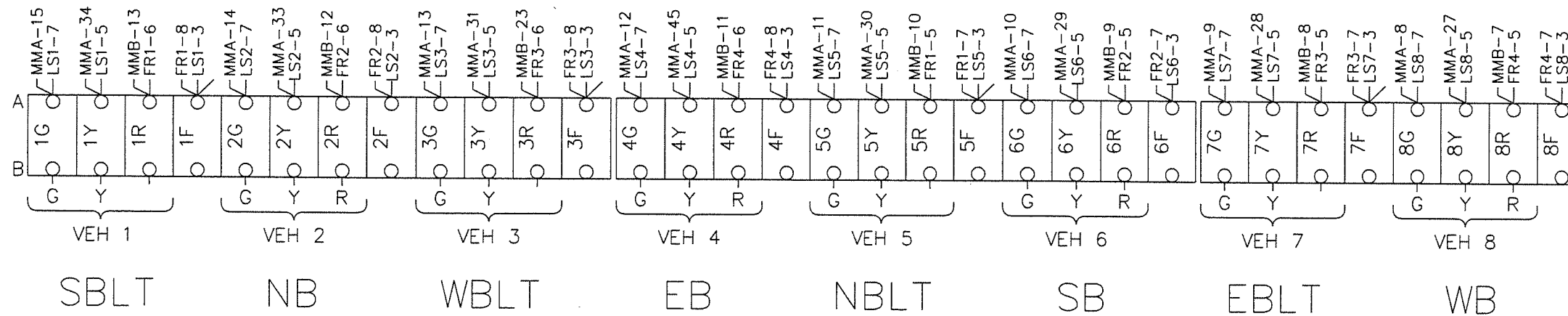
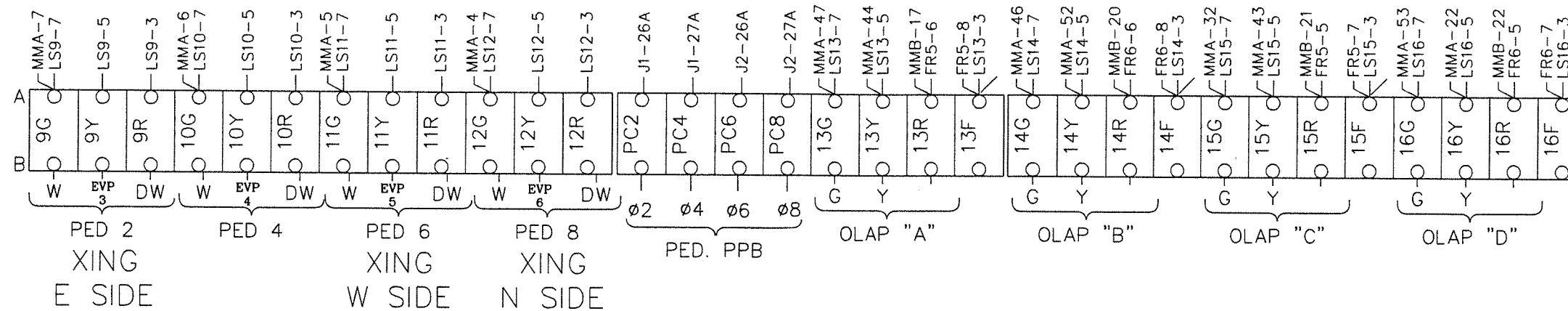
POWER/AUX PANEL (PAP) 34830G5



PIN	FUNCTION	TO
1	AC NEUTRAL	PB-10
2	ERTH GND	PB-9
3	FLT AC LINE	PB-12
4	SIG BUS CONT	PB-8

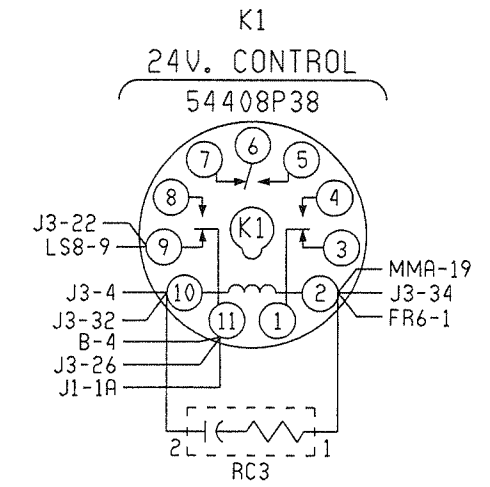
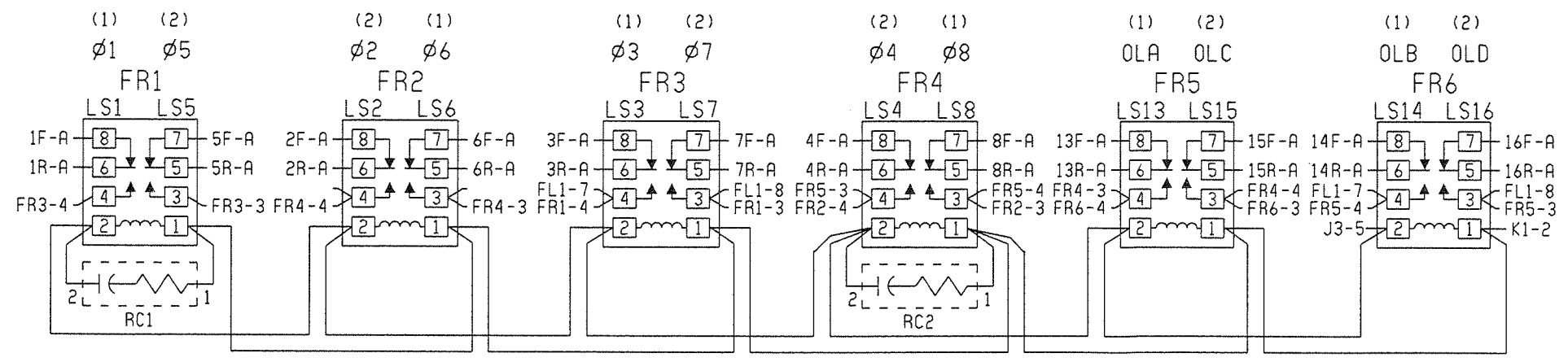
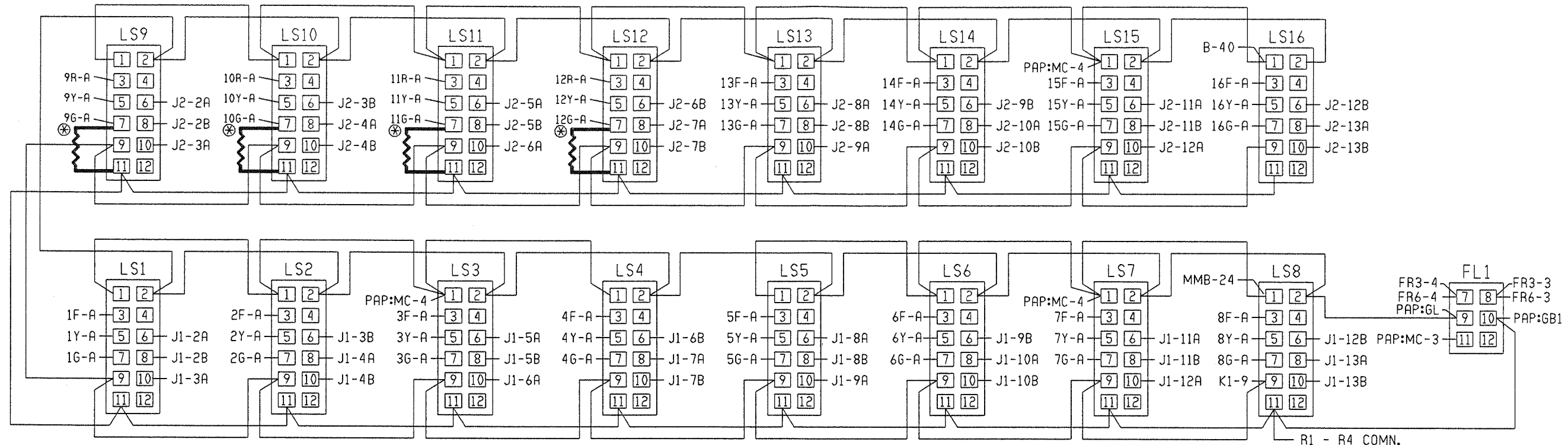
CONFIRMATION BEACONS

EVP 3 = N-SB
 EVP 4 = E-WB
 EVP 5 =
 EVP 6 =

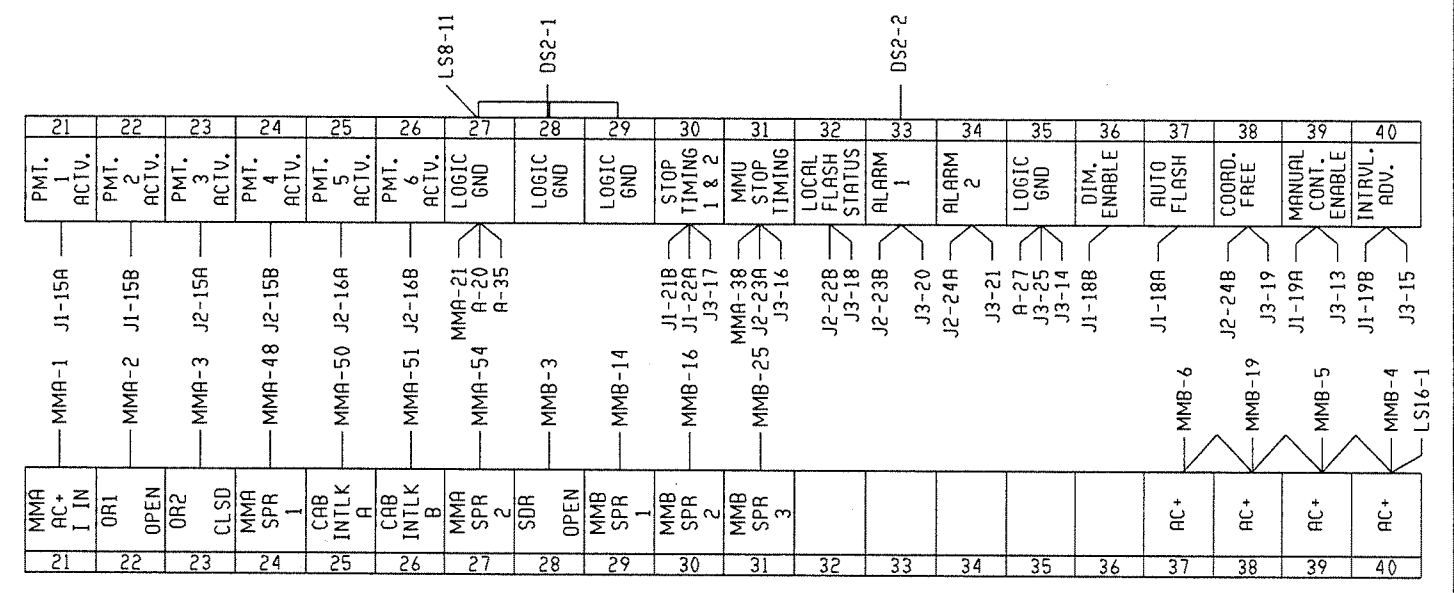
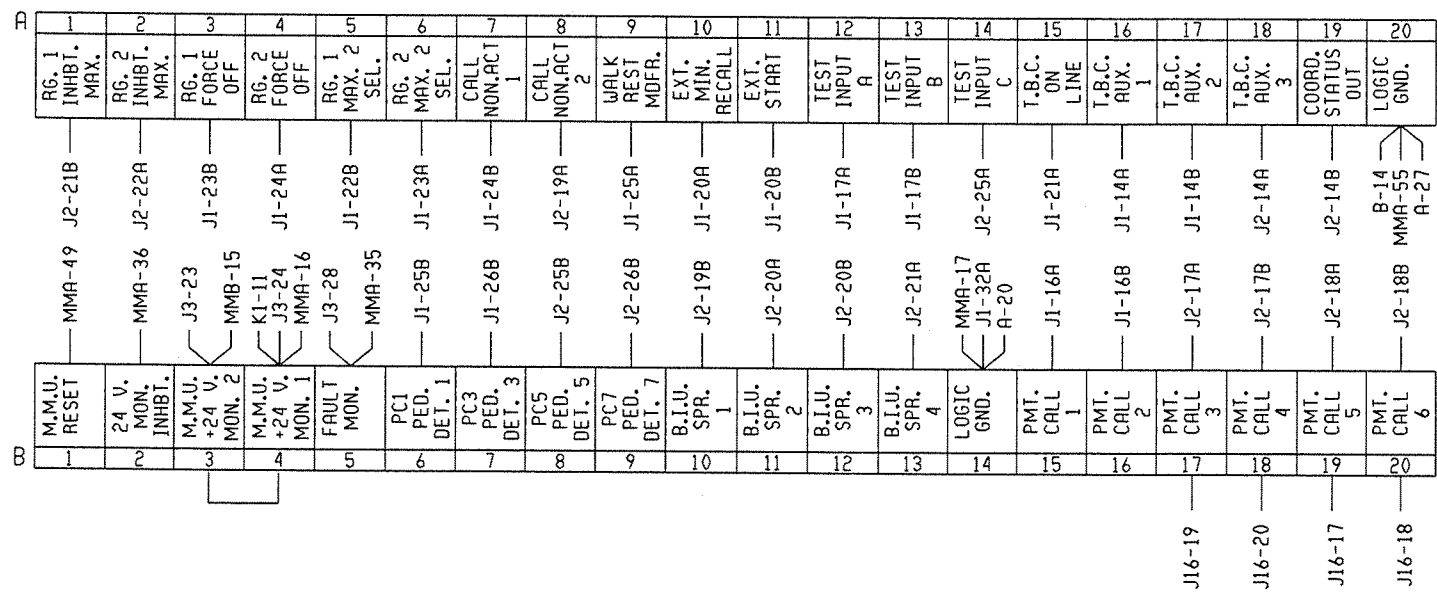


SIGNAL FIELD TERMINALS

①
2.2K
10W



LOADBAY AND FLASH RELAY'S



INTERFACE TERMINAL BLOCKS

BIU #1		
PIN	FUNCTION	TO
1A	+24 VDC	K1-11
1B	+24 VDC	J2-1B
2A	LS1 RED	LS1-6
2B	LS1 YELLOW	LS1-8
3A	LS1 GREEN	LS1-10
3B	LS2 RED	LS2-6
4A	LS2 YELLOW	LS2-8
4B	LS2 GREEN	LS2-10
5A	LS3 RED	LS3-6
5B	LS3 YELLOW	LS3-8
6A	LS3 GREEN	LS3-10
6B	LS4 RED	LS4-6
7A	LS4 YELLOW	LS4-8
7B	LS4 GREEN	LS4-10
8A	LS5 RED	LS5-6
8B	LS5 YELLOW	LS5-8
9A	LS5 GREEN	LS5-10
9B	LS6 RED	LS6-6
10A	LS6 YELLOW	LS6-8
10B	LS6 GREEN	LS6-10
11A	LS7 RED	LS7-6
11B	LS7 YELLOW	LS7-8
12A	LS7 GREEN	LS7-10
12B	LS8 RED	LS8-6
13A	LS8 YELLOW	LS8-8
13B	LS8 GREEN	LS8-10
14A	TBC AUX 1	A-16
14B	TBC AUX 2	A-17
15A	PMT ACT 1	A-21
15B	PMT ACT 2	A-22
16A	PMT CALL 1	B-15
16B	PMT CALL 2	B-16
17A	TEST A	A-12
17B	TEST B	A-13
18A	AUTO FLASH	A-37
18B	DIM. ENABLE	A-36
19A	MANUAL CONT.	A-39
19B	INT. ADVANCE	A-40
20A	EXT. MIN. RECALL	A-10
20B	EXT. START	A-11
21A	TBC ONLINE	A-15
21B	STOP TIME (1)	A-30
22A	STOP TIME (2)	A-30
22B	MAX. 2 (1)	A-5
23A	MAX. 2 (2)	A-6
23B	FORCE OFF (1)	A-3
24A	FORCE OFF (2)	A-4
24B	CNA 1	A-7
25A	WALK REST MOD.	A-9
25B	PED. ISO. 1	B-6
26A	PED. ISO. 2	PC2-A
26B	PED. ISO. 3	B-7
27A	PED. ISO. 4	PC4-A
27B	PED. ISO. COMN.	J3-31
28A	ADDR. SEL. 0	-----
28B	ADDR. SEL. 1	-----
29A	ADDR. SEL. 2	-----
29B	ADDR. SEL. 3	-----
30A	RESERVED	-----
30B	RESERVED	-----
31A	EARTH GND.	LS12-2
31B	LINE FREQ. REF.	J3-29
32A	LOGIC GND.	B-14
32B	LOGIC GND.	J2-32A

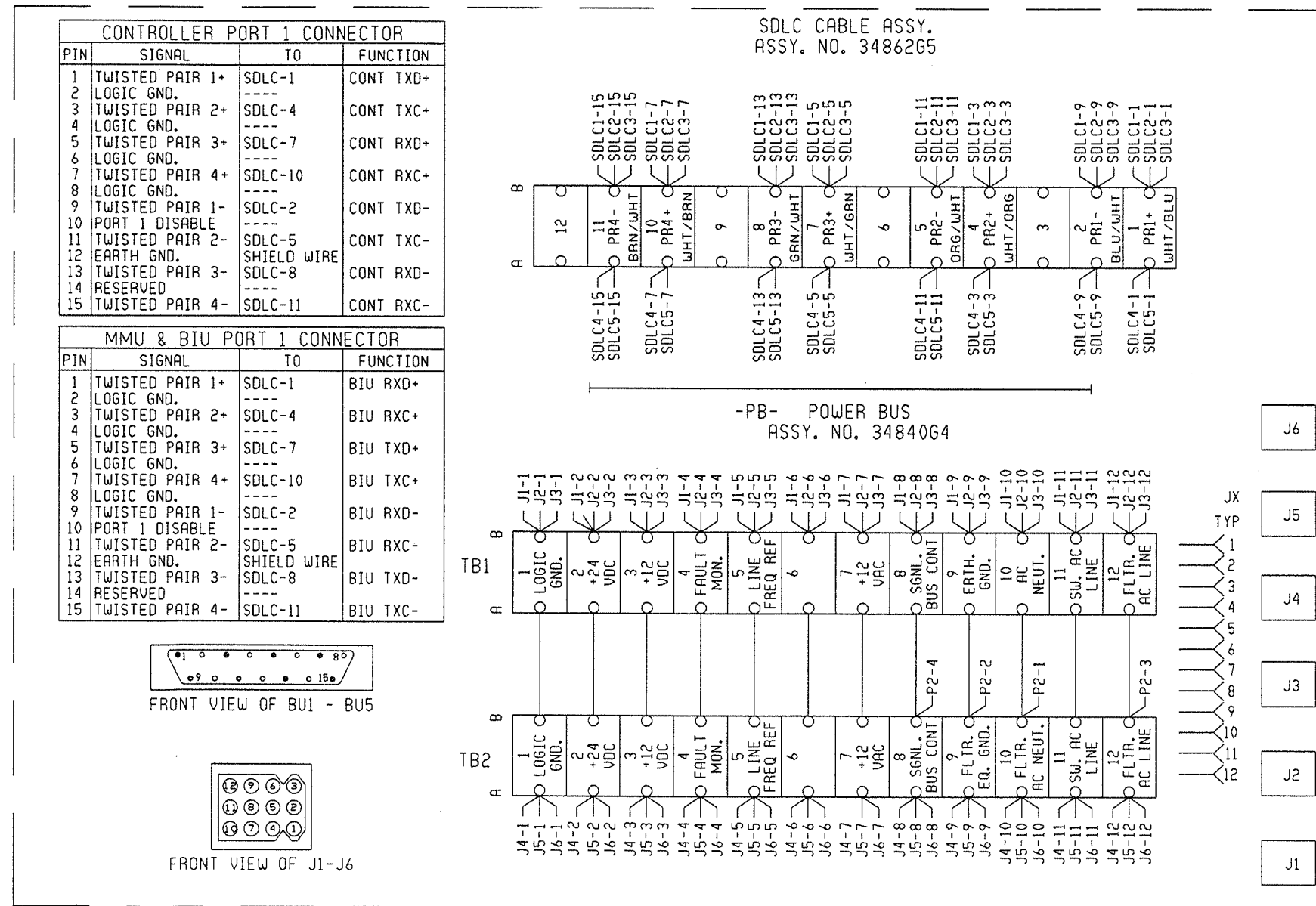
BIU #2		
PIN	FUNCTION	TO
1A	+24 VDC	J2-1B
1B	+24 VDC	J1-1B
2A	LS9 RED	LS9-6
2B	LS9 YELLOW	LS9-8
3A	LS9 GREEN	LS9-10
3B	LS10 RED	LS10-6
4A	LS10 YELLOW	LS10-8
4B	LS10 GREEN	LS10-10
5A	LS11 RED	LS11-6
5B	LS11 YELLOW	LS11-8
6A	LS11 GREEN	LS11-10
6B	LS12 RED	LS12-6
7A	LS12 YELLOW	LS12-8
7B	LS12 GREEN	LS12-10
8A	LS13 RED	LS13-6
8B	LS13 YELLOW	LS13-8
9A	LS13 GREEN	LS13-10
9B	LS14 RED	LS14-6
10A	LS14 YELLOW	LS14-8
10B	LS14 GREEN	LS14-10
11A	LS15 RED	LS15-6
11B	LS15 YELLOW	LS15-8
12A	LS15 GREEN	LS15-10
12B	LS16-RED	LS16-6
13A	LS16-YELLOW	LS16-8
13B	LS16-GREEN	LS16-10
14A	TBC AUX 3	A-18
14B	COORD. STATUS	A-19
15A	PMT ACT 3	A-23
15B	PMT ACT 4	A-24
16A	PMT ACT 5	A-25
16B	PMT ACT 6	A-26
17A	PMT CALL 3	B-17
17B	PMT CALL 4	B-18
18A	PMT CALL 5	B-19
18B	PMT CALL 6	B-20
19A	CNA 2	A-8
19B	SPARE 1	B-10
20A	SPARE 2	B-11
20B	SPARE 3	B-12
21A	SPARE 4	B-13
21B	INHIBIT MAX (1)	A-1
22A	INHIBIT MAX (2)	A-2
22B	LOCAL FLASH	A-32
23A	MMU FLASH	A-31
23B	ALARM 1	A-33
24A	ALARM 2	A-34
24B	COORD FREE IN	A-38
25A	TEST C	A-14
25B	PED. ISO. 5	B-8
26A	PED. ISO. 6	PC6-A
26B	PED. ISO. 7	B-9
27A	PED. ISO. 8	PC8-A
27B	PED. ISO. COMN.	J1-27B
28A	ADDR. SEL. 0	J2-32A
28B	ADDR. SEL. 1	-----
29A	ADDR. SEL. 2	-----
29B	ADDR. SEL. 3	-----
30A	RESERVED	-----
30B	RESERVED	-----
31A	EARTH GND.	J1-31A
31B	LINE FREQ. REF.	J1-31B
32A	LOGIC GND.	J1-32B
32B	LOGIC GND.	J2-32A

MAIN PANEL CONTROL POWER C/C 34842G4	
PIN	FUNCTION
1	LOGIC GROUND
2	+24 VDC (IN)
3	-----
4	MMU FAULT MONITOR (IN)
5	LINE FREQ. REFERENCE (IN)
6	-----
7	+12 VAC (IN)
8	SIGNAL BUS CONTROL (IN)
9	-----
10	FILTERED AC NEUTRAL (IN)
11	CONT. EQUIP. AC LINE (OUT)
12	FILTERED AC LINE (IN)

CONTROLLER POWER (CCA2) C/C 34842G3			
WIRE	PIN	SIGNAL	TO
1	A	FAULT MONITOR	PB-4
2	U	AC NEUTRAL	PB-10
3	V	EARTH GROUND	PB-9
4	W	LOGIC GROUND	PB-1
5	P	AC LINE	PB-11
6	SHL	EARTH GROUND	CCA2-V

TYPE 1 CONTROLLER POWER C/C 34842G2		
PIN	FUNCTION	TO
A	AC NEUTRAL	PB-10
B	-----	-----
C	AC LINE	PB-11
D	+12 VDC	PB-3
E	+24 VDC	PB-2
F	-----	-----
F	RESERVED	-----
G	FAULT MON.	PB-4
H	LOGIC GND.	PB-1
I	EARTH GND.	PB-9
J	-----	-----
J	RESERVED	-----
SHL	EARTH GND.	PIN H

CABINET POWER SUPPLY C/C 34842G1		
PIN	FUNCTION	TO
A	AC NEUTRAL	PB-10
B	LINE FREQUENCY REF.	PB-5
C	AC LINE	PB-11
D	+12 VDC	PB-3
E	+24 VDC	PB-2
F	-----	-----
F	RESERVED	-----
G	LOGIC GND.	PB-1
H	EARTH GND.	PB-9
I	+12 VAC	PB-7
J	RESERVED	-----
SHL	EARTH GND.	PIN H



BIU AND CONNECTING CABLES

WIRE LIST FOR NEMA MALFUNCTION MANAGEMENT UNIT									
CONNECTOR "A" (MMA)				CONNECTOR "B" (MMB)					
PIN	WIRE	MON. FUNCTION	TO	SIG. FUNCTION	PIN	WIRE	MON. FUNCTION	TO	SIG. FUNCTION
A	A-1	AC+ I INPUT	B21		A	B-1	AC+ II INPUT	J3-2	MMU POWER
B	A-2	OUT RLY 1 OPEN	B22		B	B-2	S. DLY RLY COMM.	J3-6	MMU POWER
C	A-3	OUT RLY 2 CLSD	B23		C	B-3	S. DLY RLY OPEN	B28	
D	A-4	CH. 12 GREEN	126-A	Ø8 WLK	D	B-4	CH. 12 RED	B40	
E	A-5	CH. 11 GREEN	116-A	Ø6 WLK	E	B-5	CH. 11 RED	B39	
F	A-6	CH. 10 GREEN	106-A	Ø4 WLK	F	B-6	CH. 9 RED	B37	
G	A-7	CH. 9 GREEN	96-A	Ø2 WLK	G	B-7	CH. 8 RED	8R-A	Ø8 RED
H	A-8	CH. 8 GREEN	86-A	Ø8 GRN	H	B-8	CH. 7 RED	7R-A	Ø7 RED
J	A-9	CH. 7 GREEN	76-A	Ø7 GRN	J	B-9	CH. 6 RED	6R-A	Ø6 RED
K	A-10	CH. 6 GREEN	66-A	Ø6 GRN	K	B-10	CH. 5 RED	5R-A	Ø5 RED
L	A-11	CH. 5 GREEN	56-A	Ø5 GRN	L	B-11	CH. 4 RED	4R-A	Ø4 RED
M	A-12	CH. 4 GREEN	46-A	Ø4 GRN	M	B-12	CH. 2 RED	2R-A	Ø2 RED
N	A-13	CH. 3 GREEN	36-A	Ø3 GRN	N	B-13	CH. 1 RED	1R-A	Ø1 RED
P	A-14	CH. 2 GREEN	26-A	Ø2 GRN	P	B-14	(SPARE 1)	B29	
R	A-15	CH. 1 GREEN	16-A	Ø1 GRN	R	B-15	+24V MONITOR II	B-3	+24V MON. II
S	A-16	+24V MON. I	B-4	LS +24V MON.	S	B-16	(SPARE 2)	B30	
T	A-17	LOGIC GND	B-14	LOGIC GND	T	B-17	CH. 13 RED	13R-A	Ø13 RED
U	A-18	CHASSIS GND	LS7-2	EARTH GND.	U	B-18	S. DLY RLY CLSD	J3-35	CONT. POWER
V	A-19	AC- (COMMON)	K1-2	AC NEUTRAL	V	B-19	CH. 10 RED	B38	
W	A-20	OUT RLY 1 COM.	J3-7	SIG BUS CONT	W	B-20	CH. 14 RED	14R-A	Ø14 RED
X	A-21	OUT RLY 2 COM.	A-27	LOGIC GND	X	B-21	CH. 15 RED	15R-A	Ø15 RED
Y	A-22	CH. 12 YELLOW	-T-		Y	B-22	CH. 16 RED	16R-A	Ø16 RED
Z	A-23	CH. 11 YELLOW	-T-		Z	B-23	CH. 3 RED	3R-A	Ø3 RED
a	A-24	CH. 10 WALK	----		a	B-24	RED ENABLE	LS8-1	SIG BUS CON.
b	A-25	CH. 10 YELLOW	-T-		b	B-25	(SPARE 3)	B31	
c	A-26	CH. 9 YELLOW	-T-		c	B-26	LOCAL FLASH IN	-T-	POL/AX FLSH
d	A-27	CH. 8 YELLOW	8Y-A	Ø8 YEL	B-27	SHELL GROUND	LS6-2	EARTH GND.	
e	A-28	CH. 7 YELLOW	7Y-A	Ø7 YEL					
f	A-29	CH. 6 YELLOW	6Y-A	Ø6 YEL					
g	A-30	CH. 5 YELLOW	5Y-A	Ø5 YEL					
h	A-31	CH. 3 YELLOW	3Y-A	Ø3 YEL					
i	A-32	CH. 15 GREEN	15G-A	Ø15 GRN					
j	A-33	CH. 2 YELLOW	2Y-A	Ø2 YEL					
k	A-34	CH. 1 YELLOW	1Y-A	Ø1 YEL					
m	A-35	CONT. VOLT. MON.	B-5	VOLT. MON.					
n	A-36	+24V MON. INH.	B-2						
p	A-37	OUT RLY 1 CLSD	J3-3						
q	A-38	OUT RLY 2 OPEN	A-31	STOP TIME					
r	A-39	CH. 12 WALK	----						
s	A-40	CH. 11 WALK	----						
t	A-41	CH. 9 WALK	----						
u	A-42	CH. 16 YELLOW	16Y-A	Ø16 YEL					
v	A-43	CH. 15 YELLOW	15Y-A	Ø15 YEL					
w	A-44	CH. 13 YELLOW	13Y-A	Ø13 YEL					
x	A-45	CH. 4 YELLOW	4Y-A	Ø4 YEL					
y	A-46	CH. 14 GREEN	14G-A	Ø14 GRN					
z	A-47	CH. 13 GREEN	13G-A	Ø13 GRN					
AA	A-48	(SPARE 1)	B24						
BB	A-49	RESET	B-1						
CC	A-50	CAB. INTLK A	B25						
DD	A-51	CAB. INTLK B	B26						
EE	A-52	CH. 14 YELLOW	14Y-A	Ø14 YEL					
FF	A-53	CH. 16 GREEN	16G-A	Ø16 GRN					
GG	A-54	(SPARE 2)	B27						
HH	A-55	TYPE SELECT	A-20	MMU/CMU SEL.					
	A-56	SHELL GND	LS15-2	EARTH GND.					

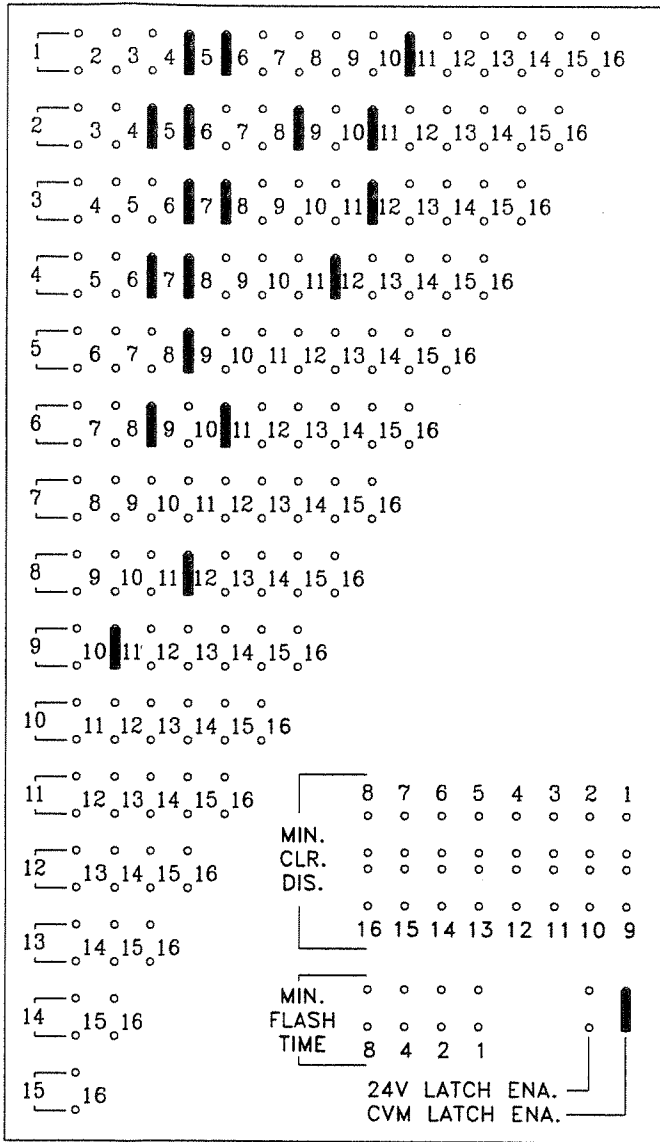
NOTES FOR 16 CHANNEL M.M.U.

- (1) RELAY CONTACT POSITIONS SPECIFIED ARE FOR NON-CONFLICT MODE.
- (2) TO PROGRAM MMU, SOLDER JUMPERS IN PROGRAMMING CARD FOR ALL PERMISSABLE PHASE MOVEMENTS, MINIMUM CHANGE DISABLE FOR ALL PEDESTRIAN CHANNELS, AND MIN. FLASH, VOLTAGE MON., AND 24V. MON. LATCH OPTIONS AS DESIRED.

M.M.U. CHANNEL ASSIGNMENTS

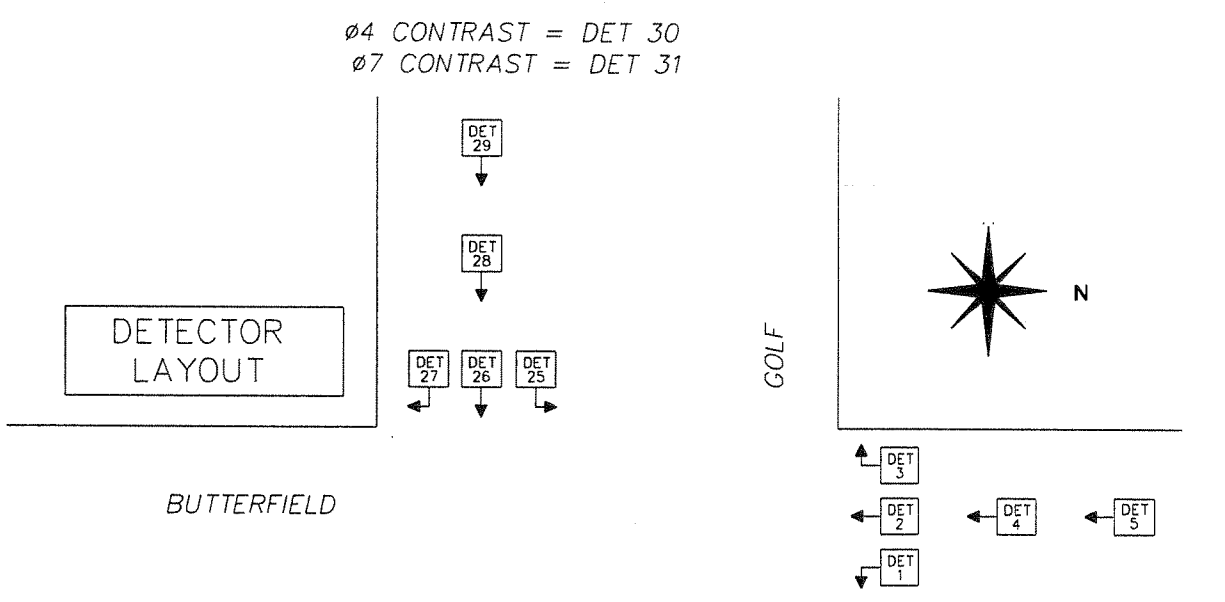
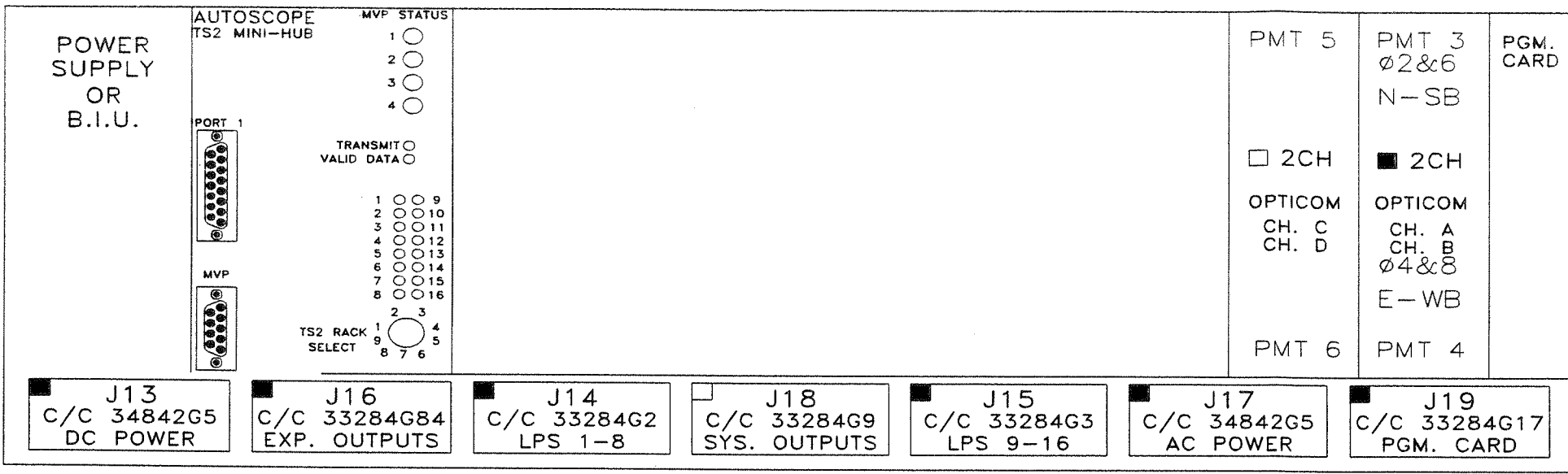
- CH. 1 = L/S 1 = Ø1 VEH.
- CH. 2 = L/S 2 = Ø2 VEH.
- CH. 3 = L/S 3 = Ø3 VEH.
- CH. 4 = L/S 4 = Ø4 VEH.
- CH. 5 = L/S 5 = Ø5 VEH.
- CH. 6 = L/S 6 = Ø6 VEH.
- CH. 7 = L/S 7 = Ø7 VEH.
- CH. 8 = L/S 8 = Ø8 VEH.
- CH. 9 = L/S 9 = Ø2 PED.
- CH. 10 = L/S 10 = Ø4 PED.
- CH. 11 = L/S 11 = Ø6 PED.
- CH. 12 = L/S 12 = Ø8 PED.
- CH. 13 = L/S 13 = O'LAP A VEH.
- CH. 14 = L/S 14 = O'LAP B VEH.
- CH. 15 = L/S 15 = O'LAP C VEH.
- CH. 16 = L/S 16 = O'LAP D VEH.

MMU PROGRAM CARD



M.M.U. C/C'S AND PROGRAM CARD

DETECTOR RACK 34030G1



RACK # 1

RACK # 2

RACK # 3

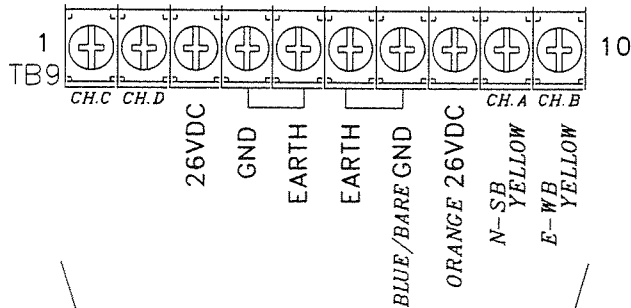
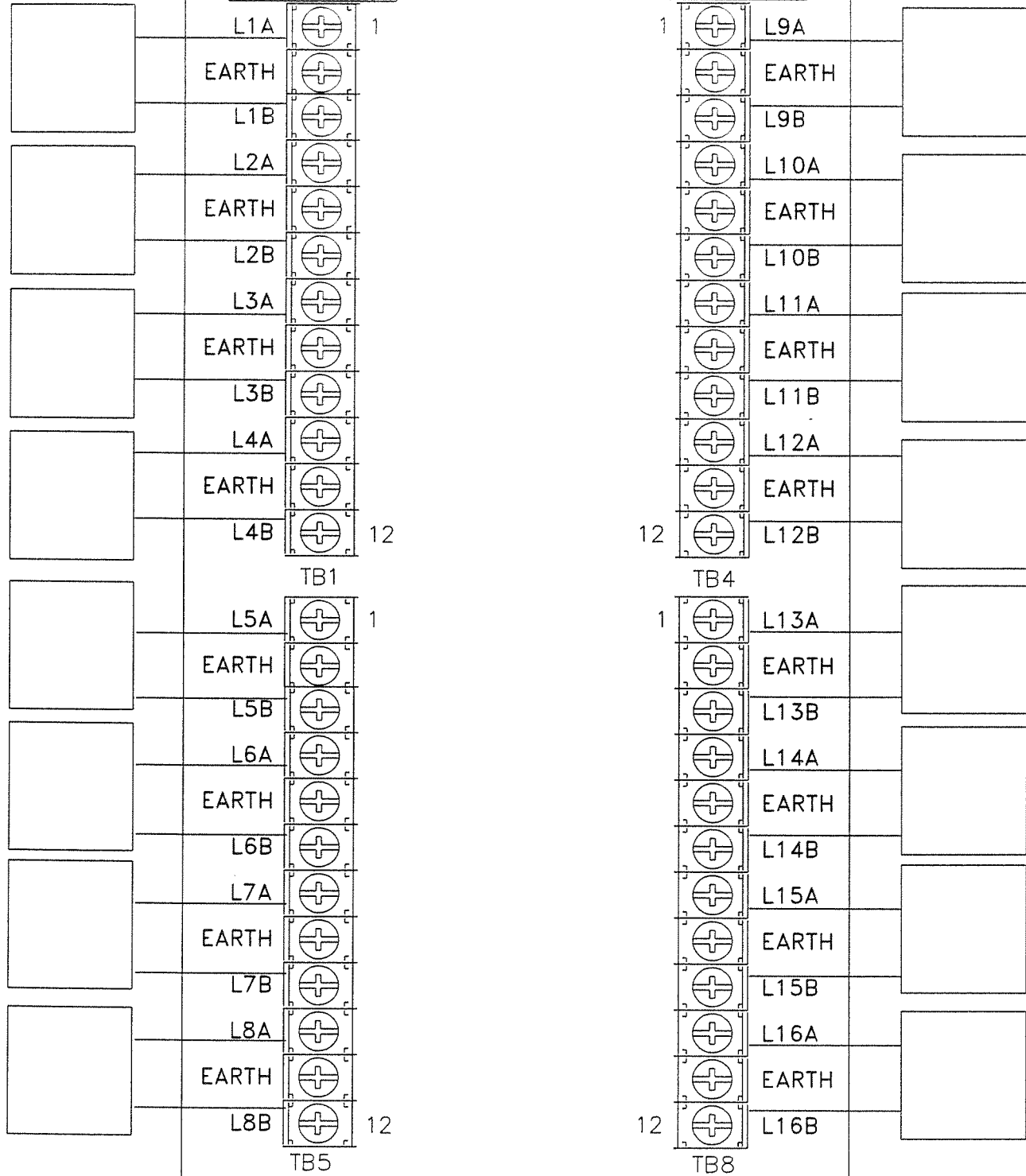
RACK # 4

DETECTOR ASSIGNMENTS					DETECTOR ASSIGNMENTS					DETECTOR ASSIGNMENTS					DETECTOR ASSIGNMENTS								
CONT. INPUT	PHASE	DET. ASGN.	DET. TYPE	DET. DLY	DET. EXT.	CONT. INPUT	PHASE	DET. ASGN.	DET. TYPE	DET. DLY	DET. EXT.	CONT. INPUT	PHASE	DET. ASGN.	DET. TYPE	DET. DLY	DET. EXT.	CONT. INPUT	PHASE	DET. ASGN.	DET. TYPE	DET. DLY	DET. EXT.
1	1					17	3					33						49					
2	6					18	8					34						50					
3	6					19	8					35						51					
4	6					20	8					36						52					
5	6					21	8					37						53					
6	6					22	8					38						54					
7	6					23	8					39						55					
8	6					24	8					40						56					
9	5					25	7					41						57					
10	2					26	4					42						58					
11	2					27	4					43						59					
12	2					28	4					44						60					
13	2					29	4					45						61					
14	2					30	4					46						62					
15	2					31	4					47						63					
16	2					32	4					48						64					

DETECTOR LOOP
INTERFACE
ASSY. 34040G1

J1
TO DR1: J14
C/C 33284G2

J2
TO DR1: J15
C/C 33284G3



CONNECT EVP DETECTORS HERE

DET. LOOPS 9-16 (J15) C/C 33284G3

PIN	SIGNAL	TO
1	LOOP 9+	LPI2: TB4-1
2	LOOP 9-	LPI2: TB4-3
3	LOOP 10+	LPI2: TB4-4
4	LOOP 10-	LPI2: TB4-6
5	LOOP 11+	LPI2: TB4-7
6	LOOP 11-	LPI2: TB4-9
7	LOOP 12+	LPI2: TB4-10
8	LOOP 12-	LPI2: TB4-12
9	LOOP 13+	LPI2: TB8-1
10	LOOP 13-	LPI2: TB8-3
11	LOOP 14+	LPI2: TB8-4
12	LOOP 14-	LPI2: TB8-6
13	LOOP 15+	LPI2: TB8-7
14	LOOP 15-	LPI2: TB8-9
15	LOOP 16+	LPI2: TB8-10
16	LOOP 16-	LPI2: TB8-12
17	----	
18	----	
19	----	
20	----	

DET. LOOPS 1-8 (J14) C/C 33284G2

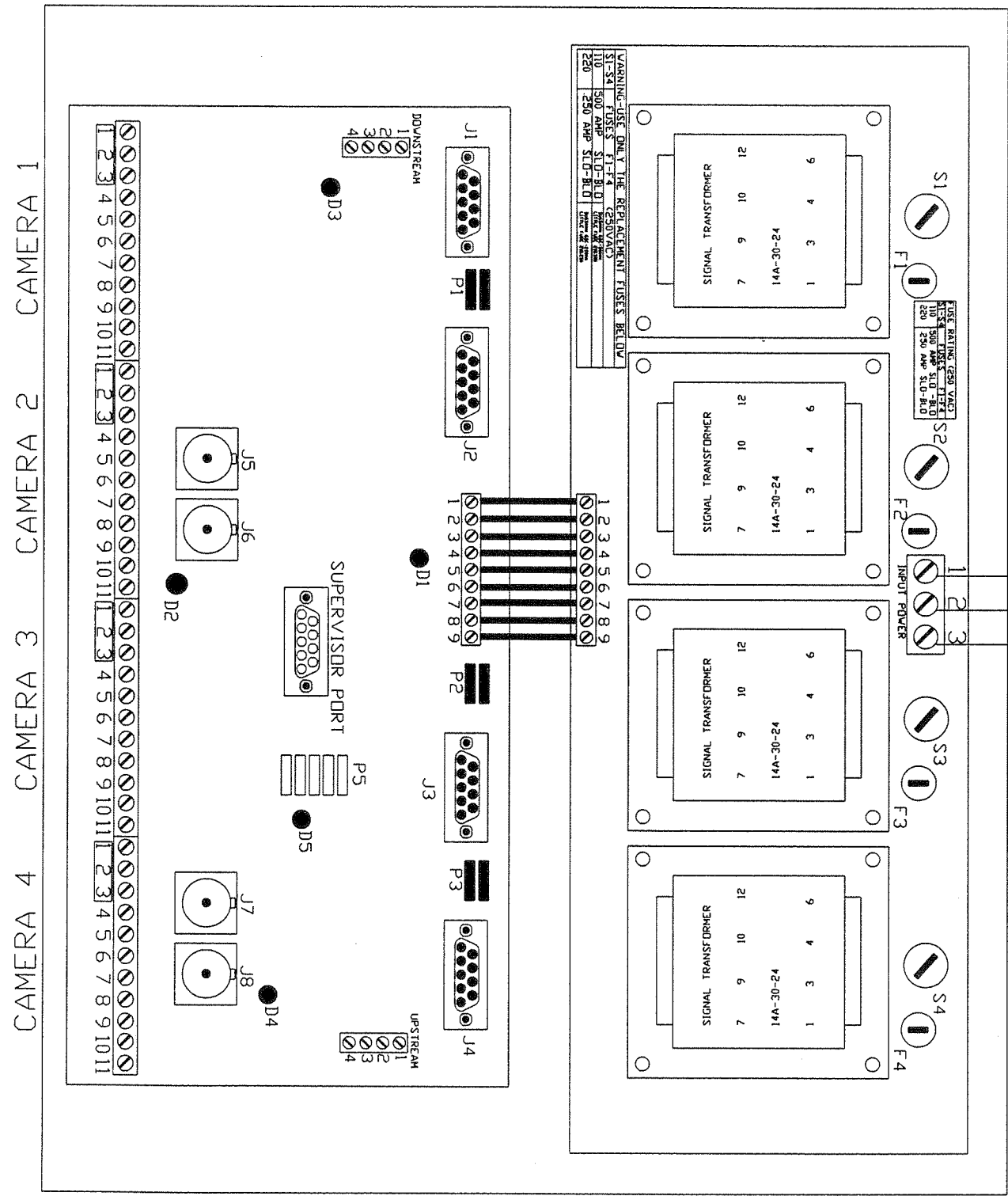
PIN	SIGNAL	TO
1	LOOP 1+	LPI1: TB1-1
2	LOOP 1-	LPI1: TB1-3
3	LOOP 2+	LPI1: TB1-4
4	LOOP 2-	LPI1: TB1-6
5	LOOP 3+	LPI1: TB1-7
6	LOOP 3-	LPI1: TB1-9
7	LOOP 4+	LPI1: TB1-10
8	LOOP 4-	LPI1: TB1-12
9	LOOP 5+	LPI1: TB5-1
10	LOOP 5-	LPI1: TB5-3
11	LOOP 6+	LPI1: TB5-4
12	LOOP 6-	LPI1: TB5-6
13	LOOP 7+	LPI1: TB5-7
14	LOOP 7-	LPI1: TB5-9
15	LOOP 8+	LPI1: TB5-10
16	LOOP 8-	LPI1: TB5-12
17	PMT. DET. CH. C	LPI1: TB9-1
18	PMT. DET. CH. D	LPI1: TB9-2
19	KEY PIN	
20	PMT. CH. C/D +26VDC	LPI1: TB9-3
21	PMT. DC GROUND	LPI1: TB9-4,7
22	PMT. CH. A/B +26VDC	LPI1: TB9-8
23	PMT. DET. CH. A	LPI1: TB9-9
24	PMT. DET. CH. B	LPI1: TB9-10
25	----	
26	----	

DET. RACK POWER C/C 34842G5			
P1/ DR: J13	P2/ DR: J17	FUNCTION	TO
1		+12 VDC (DET. POWER)	PB-3
2		+24 VDC (BIU POWER)	PB-2
3		LOGIC GROUND	PB-1
4		EARTH GROUND	PB-9
5		"KEY PIN"	
6		LINE FREQUENCY REF.	PB-5
	1	EARTH GROUND	----
	2	AC LINE	PB-12
	3	AC NEUTRAL	PB-10
	4	LOGIC GROUND	----

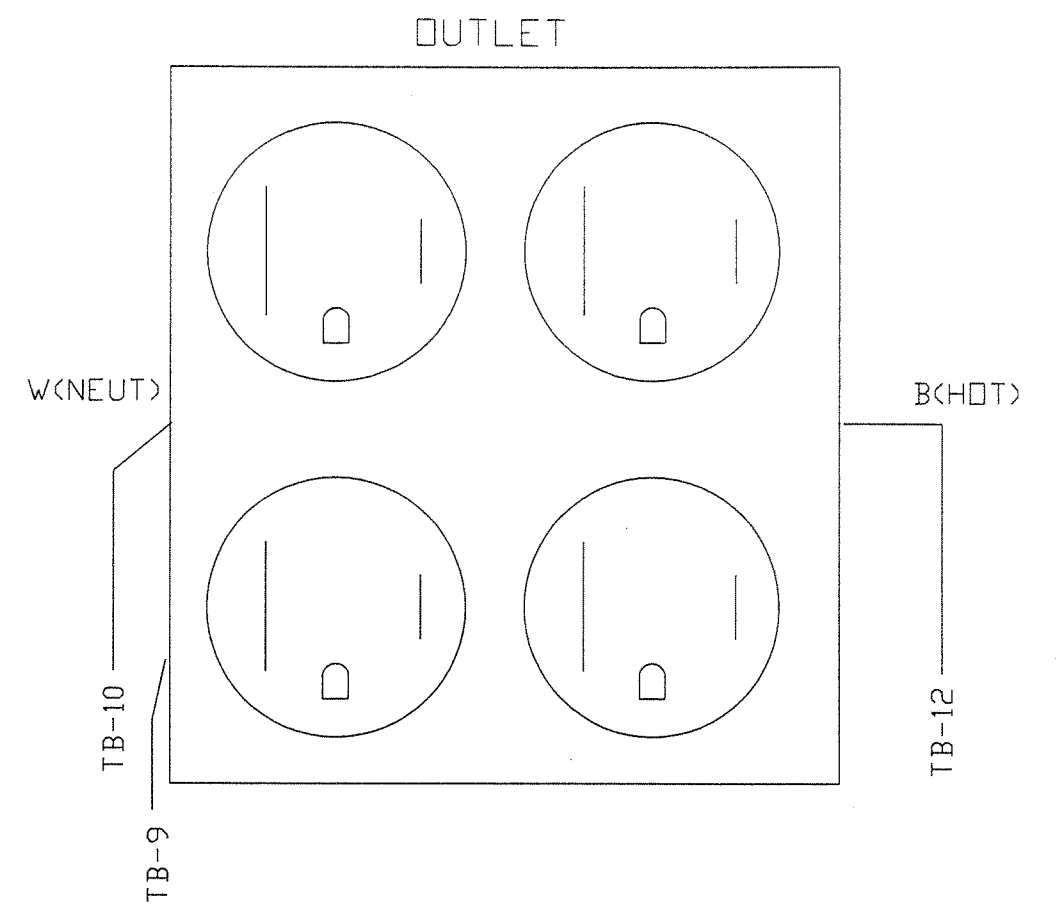
EXPANSION OUTPUTS C/C 33284G8		
J16	FUNCTION	TO
17	DET. 17 / PMT. A OUT	MP: B19
18	DET. 18 / PMT. B OUT	MP: B20
19	PMT. C OUT	MP: B17
20	PMT. D OUT	MP: B18

DETECTOR LOOP INTERFACE

COMMUNICATION INTERFACE PANEL-4 MVP



CAMERA 1	Ø1&6	SB
CAMERA 2	Ø2&5	NB
CAMERA 3	Ø3&8	WB
CAMERA 4	Ø4&7	EB



SOLO CAMERA FIELD HOOKUP

MVP CABLE#		BRANCH COMMUNICATIONS CABLE (CABLE FROM POLE TO CABINET) (WRITE IN COLOR)		HUB INTERFACE PANEL	DRI INTERFACE PANEL
PIN	PAIR COLOR	WIRE COLOR	PAIR COLOR	SIGNAL	TERMINAL
A	BRN/BLK	BRN		24V PWR 1	1
B	BRN/BLK	BLK		24V RTN 1	2
N	---	GRN/YEL		EARTH GND 1	3
P	BLU/BLK	BLU		SUP RX+	4
U	BLU/BLK	BLK		SUP RX-	5
D	RED/BLK	RED		SUP TX+	6
R	RED/BLK	BLK		SUP TX-	7
F	YEL/BLK	YEL		DET+	8
E	YEL/BLK	BLK		DET-	9
J	WHI/BLK	WHI		VIDEO+	10
H	WHI/BLK	BLK		VIDEO-	11

