

MAIN PANEL:171-1081-504

COBALT TS2	LEGEND
<ul style="list-style-type: none"> ■ CONFIGURATION: L3604 ■ SOFTWARE: 32.65.30 ■ ETHERNET MODULE 	<ul style="list-style-type: none"> 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 ()
<ul style="list-style-type: none"> □ OVERLAPS <ul style="list-style-type: none"> □ IN EEPROM □ KEYBOARD ENTERED □ ANALOG TELEMETRY MOD.: 100-1005-501 ■ INTERNAL RS-232 TELEMETRY □ TEST INPUT A = □ TEST INPUT B = 	

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

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

MAIN PANEL PLUG-IN REQUIREMENTS

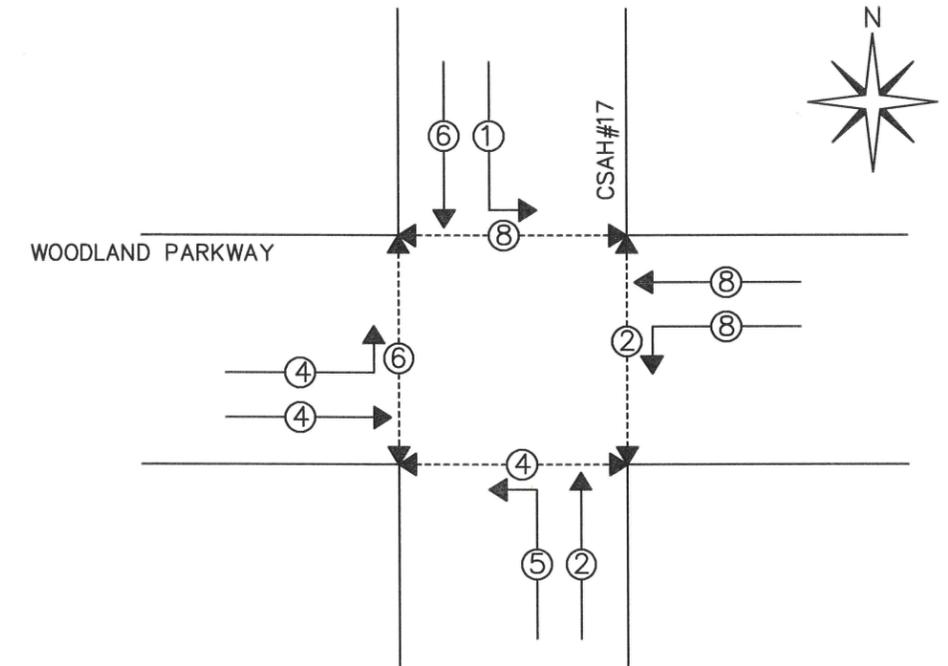
BIU2 T&F	BIU3 T&F	LS9 PED 2 BEACONS	LS10 PED 4 BEACONS	LS11 PED 6 BEACONS	LS12 PED 8 BEACONS	LS13 OL "A"	LS14 OL "B"	LS15 OL "C"	LS16 OL "D"
BIU1 T&F	LS1 VEH 1	LS2 VEH 2	LS3 VEH 3	LS4 VEH 4	LS5 VEH 5	LS6 VEH 6	LS7 VEH 7	LS8 VEH 8	FL1 □ 1CKT ■ 2CKT
FR1 L R V1 V5	FR2 L R V2 V6	FR3 L R V3 V7	FR4 L R V4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

■ DENOTES TYPE OF OPERATION AND/OR WHERE PLUG-IN IS REQUIRED. L = LEFT, R = RIGHT.

⊗ DENOTES WHERE "UNUSED RED" JUMPER PART NUMBER 32448G1 IS REQUIRED. INSTALL BETWEEN PINS 1 & 3 FOR LOAD SWITCH OR PINS 6 & 8 AND 5 & 7 FOR FLASH TRANSFER RELAY.

FLASH:

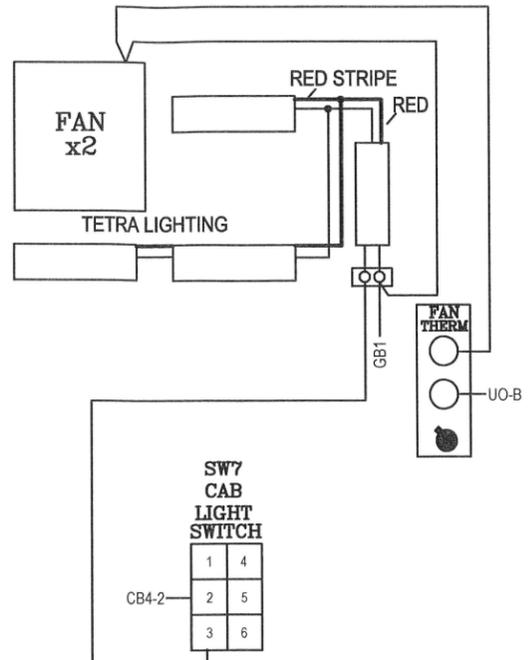
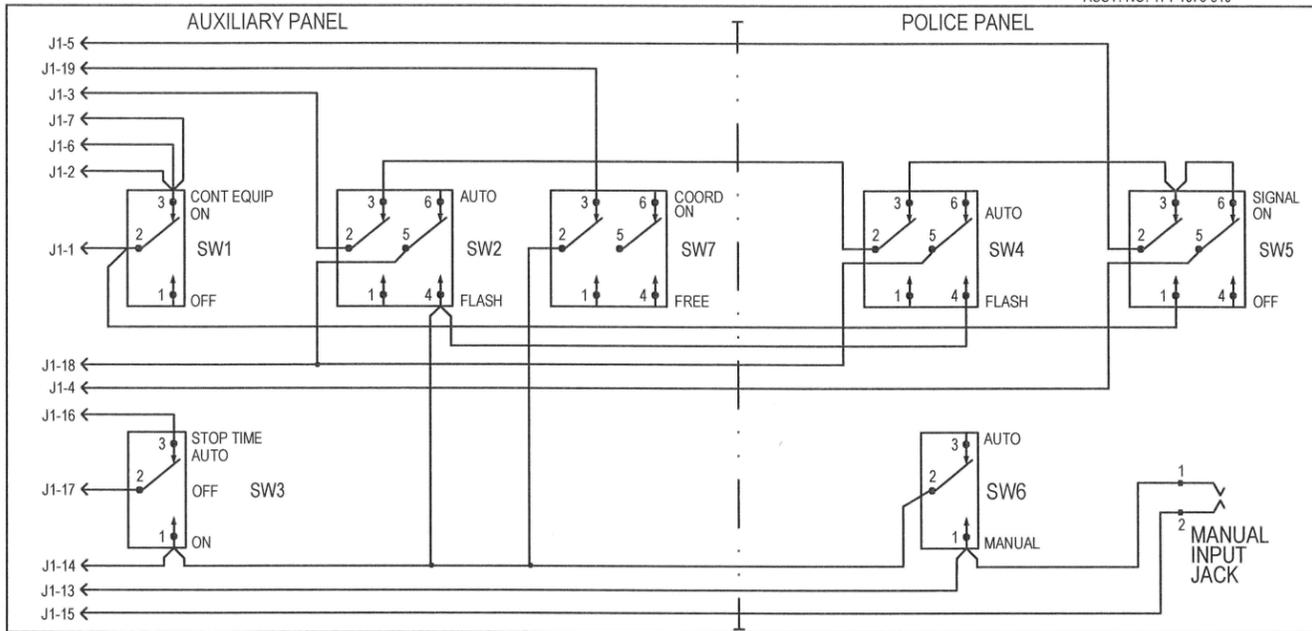
- ø2&6 YELLOW, ALL OTHERS RED.
- ALL RED.
- RELAYS DE-ENERGIZED FOR FLASH.
- RELAYS ENERGIZED FOR FLASH.



SHEET 1 OF 9

DESIGNER G.V. T.C.C.	DATE 02/22/2018	 ECONOLITE CONTROL PRODUCTS INC.	 TRAFFIC CONTROL CORPORATION	780 W. BELDEN SUITE D ADDISON, IL 60101
DRAWN CM TCC	02/22/2018			CABINET SPECIFICATION: TS2TYPE1 ANOKA COUNTY SPEC PLUG AND GO
CABINET SIZE	77"	CUSTOMER:		
INSPECTED		INTERSECTION: CSAH#17 AT WOODLAND		
APPROVED		LOCATION:		
CUSTOMER P.O.	INSTALLED BY	SALES ORDER NO.	SIZE B	DRAWING #TS2AC16PG-

CONTROLLER
FLASHER
SW.PACKS

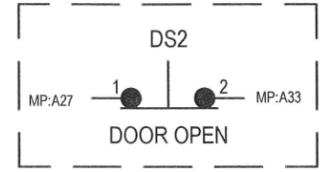
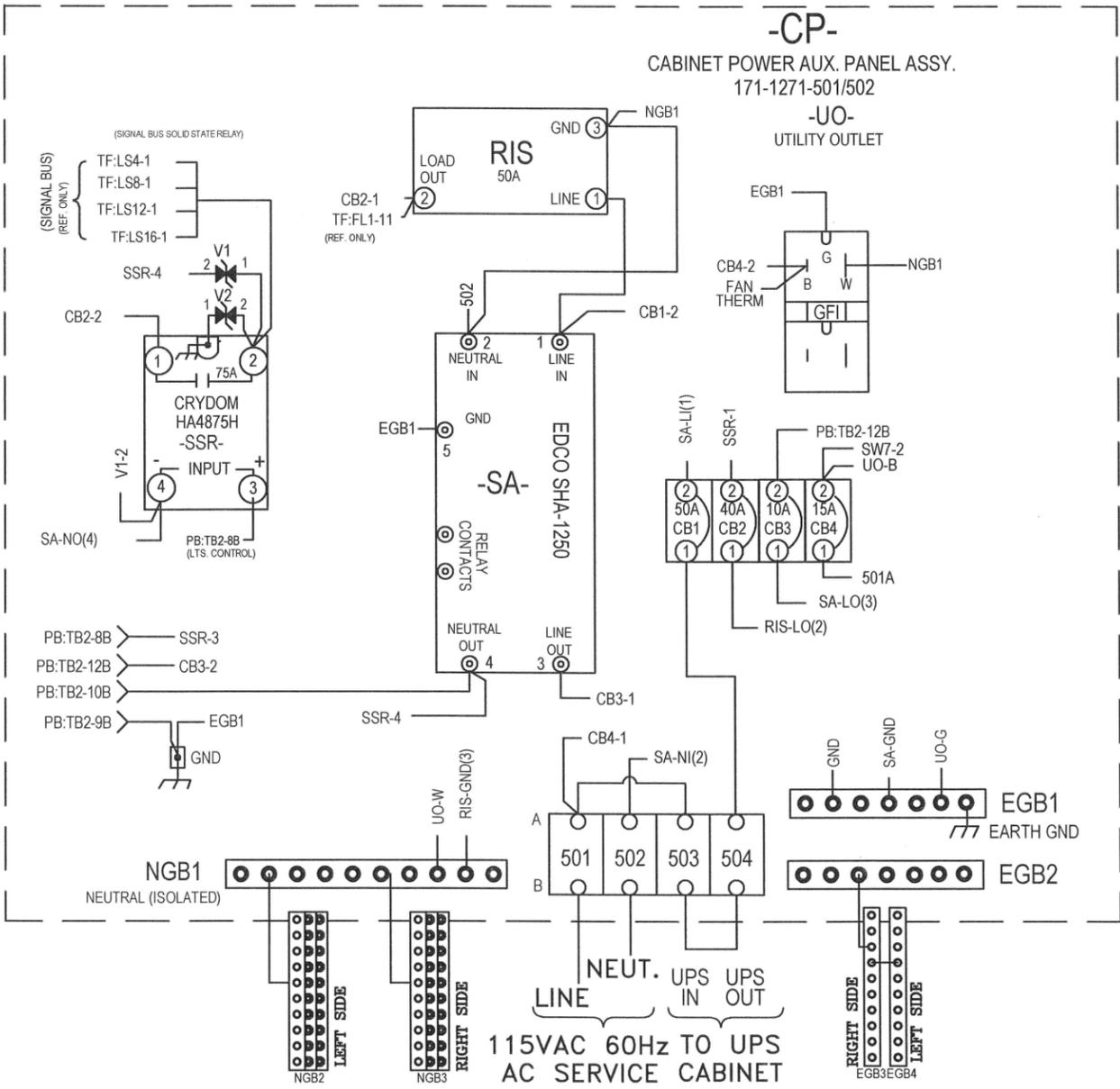


- J3-36 --- 1
- MMB-1 --- 2
- MMA-37 --- 3
- K1-10 --- 4
- FR6-2 --- 5
- MMB-2 --- 6
- MMA-20 --- 7
-
-
-
-
-
-
- A-39 --- 13
- A-35 --- 14
- A-40 --- 15
- A-31 --- 16
- A-30 --- 17
- A-32 --- 18
- A-38 --- 19
- A-33 --- 20
- A-34 --- 21
- K1-9 --- 22
- B-3 --- 23
- B-4 --- 24
-
- A-35 --- 25
- K1-11 --- 26
-
- B-5 --- 28
- J1-31B --- 29
-
-
- J1-27B --- 31
- K1-10 --- 32
-
-
- K1-2 --- 34
- MMB-18 --- 35
- J3-1 --- 36
- (N/U) --- 37

(MAIN PANEL & C/C REFERENCES ONLY)

TO/FROM POLICE-AUXILIARY SWITCH PANEL	
PIN	FUNCTION
1	FILTER AC LINE (OUT)
2	SWITCHED AC LINE (IN)
3	FLASH CONTROL BUS (OUT)
4	SIGNAL BUS CONTROL (IN)
5	FLASH RELAY CONTROL (IN)
6	START DELAY AC BUS (IN)
7	MMU FLASH CONTROL BUS (IN)
8	SPARE
9	SPARE
10	SPARE
11	SPARE
12	SPARE
13	MANUAL CONT. ENABLE (IN)
14	LOGIC GROUND
15	INTERVAL ADVANCE (IN)
16	MMU STOP TIME (OUT)
17	CONTROLLER STOP TIME (IN)
18	LOCAL FLASH STATUS (IN)
19	OPT-COORD FREE (IN)
20	OPT-ALARM 1 (IN)
21	OPT-ALARM 2 (IN)
22	OPT-LOADSWITCH TEST (IN)
23	MMU 24 VOLT MON. 2 (IN)
24	+24 VDC
25	LOGIC GROUND
26	+24 VDC (IN)
27	---
28	MMU FAULT MONITOR (IN)
29	LINE FREQ. REFERENCE (IN)
30	---
31	12 VAC (IN)
32	SIGNAL BUS CONTROL (IN)
33	---
34	FILTERED AC NEUTRAL (IN)
35	CONT. EQUIP. AC LINE (OUT)
36	FILTERED AC LINE (IN)
37	---

MP P3	MAIN PANEL/CONTROLLER PWR. C/C 171-1676-504	TO POL/AUX P1
PIN	FUNCTION	PIN
1	FILTER AC LINE (OUT)	1
2	SWITCHED AC LINE (IN)	2
3	FLASH CONTROL BUS (OUT)	3
4	SIGNAL BUS CONTROL (IN)	4
5	FLASH RELAY CONTROL (IN)	5
6	START DELAY AC BUS (IN)	6
7	MMU FLASH CONTROL BUS (IN)	7
8	SPARE	8
9	SPARE	9
10	SPARE	10
11	SPARE	11
12	SPARE	12
13	OPT-MANUAL CONT. ENABLE (IN)	13
14	LOGIC GROUND	14
15	OPT-INTERVAL ADVANCE (IN)	15
16	MMU STOP TIME (OUT)	16
17	CONTROLLER STOP TIME (IN)	17
18	LOCAL FLASH STATUS (IN)	18
19	OPT-COORD FREE (IN)	19
20	OPT-ALARM 1 (IN)	20
21	OPT-ALARM 2 (IN)	21
22	OPT-LOADSWITCH TEST (IN)	22
23	MMU 24 VOLT MON. 2 (IN)	23
24	+24 VDC	24
PART OF 171-1076-504		TO PB:(JX)
25	LOGIC GROUND	1
26	+24 VDC (IN)	2
(N/U)	---	3
28	MMU FAULT MONITOR (IN)	4
29	LINE FREQ. REFERENCE (IN)	5
(N/U)	---	6
31	12 VAC (IN)	7
32	SIGNAL BUS CONTROL (IN)	8
(N/U)	---	9
34	FILTERED AC NEUTRAL (IN)	10
35	CONT. EQUIP. AC LINE (OUT)	11
(N/U)	---	12
(N/U)	---	13
(N/U)	---	14



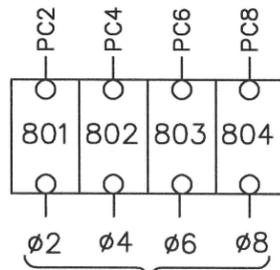
- 901 --- TB2-12 (120VAC+)
 - 902 --- TB2-10 (120VAC-)
 - 903 --- TB2-9 (CHASS. GND)
 - 904 ---
- MOUNTED ON LEFT SIDE

AC POWER C/C 171-1083-528/529		
POWER BUS -PB-	FUNCTION	POWER PANEL -CP-
TB2-12B	FILTERED AC+LINE OUT	CB3-2
TB2-10B	AC NEUTRAL OUT	SA-NO
TB2-9B	EARTH GND.	GND
TB2-8B	SIG BUS CNTRL	SSR-3

POLICE/AUXILIARY SWITCH PANEL		
J1 PIN	FUNCTION	TO
1	FILTER AC LINE (IN)	SW1-2
2	SWITCHED AC LINE (OUT)	SW1-3
3	FLASH CONTROL BUS (IN)	SW2-2
4	SIGNAL BUS CONTROL (OUT)	SW5-5
5	FLASH RELAY CONTROL (OUT)	SW5-2
6	START DELAY BUS (OUT)	SW1-3
7	MMU FLASH CONTROL BUS (OUT)	SW1-3
8	SPARE	---
9	SPARE	---
10	SPARE	---
11	SPARE	---
12	SPARE	---
13	MANUAL CONT. ENABLE (OUT)	SW6-1
14	LOGIC GROUND	SW3-1
15	INTERVAL ADVANCE (OUT)	MIJ-2
16	MMU STOP TIME (IN)	SW3-3
17	CONTROLLER STOP TIME (OUT)	SW3-2
18	LOCAL FLASH STATUS (OUT)	SW2-5
19	COORD FREE (OUT)	---
20	ALARM 1 (OUT)	---
21	ALARM 2 (OUT)	---
22	LOADSWITCH TEST (OUT)	---
23	MMU 24 VOLT MON. 2 (OUT)	---
24	+24 VDC (IN)	---

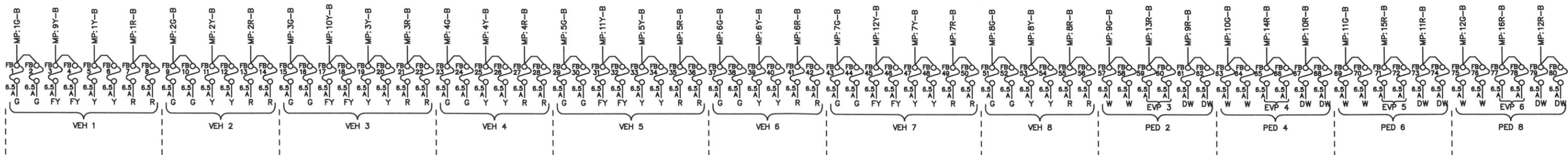
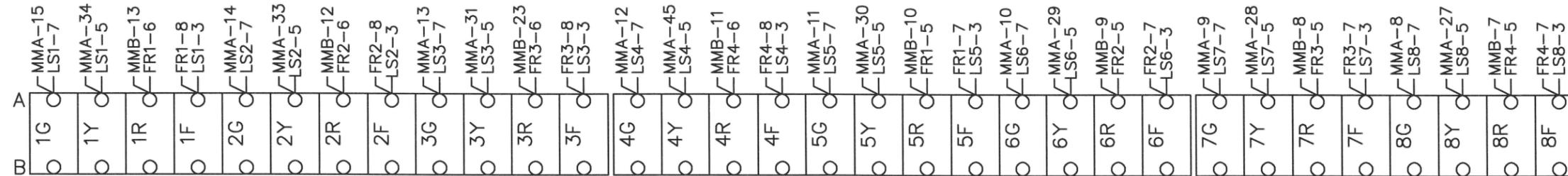
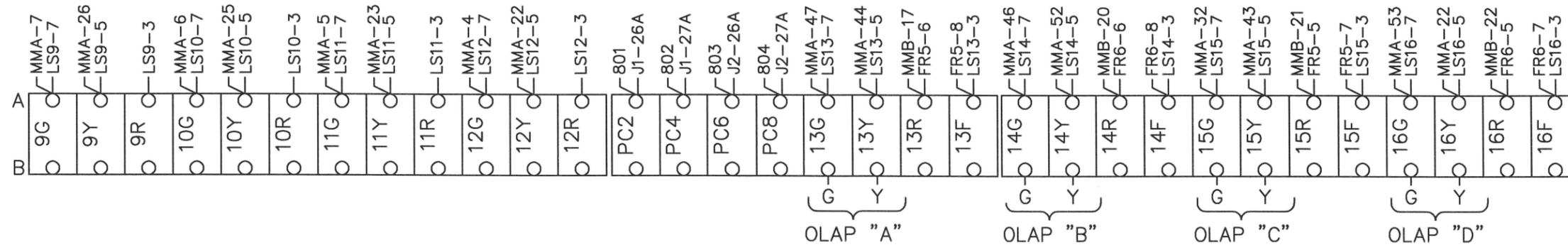
CONFIRMATION BEACONS

EVP 3 = 1-6
 EVP 4 = 2-5
 EVP 5 = 8
 EVP 6 = 4



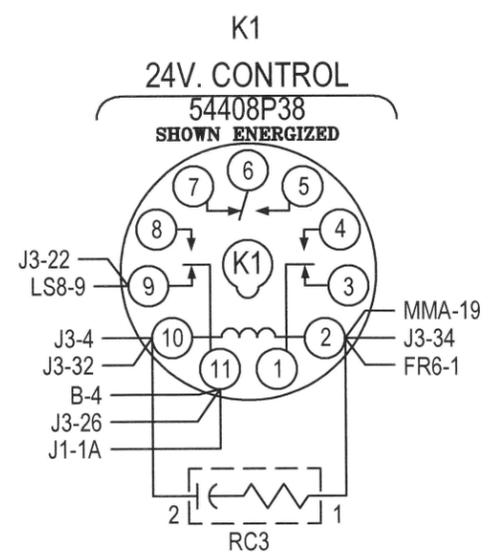
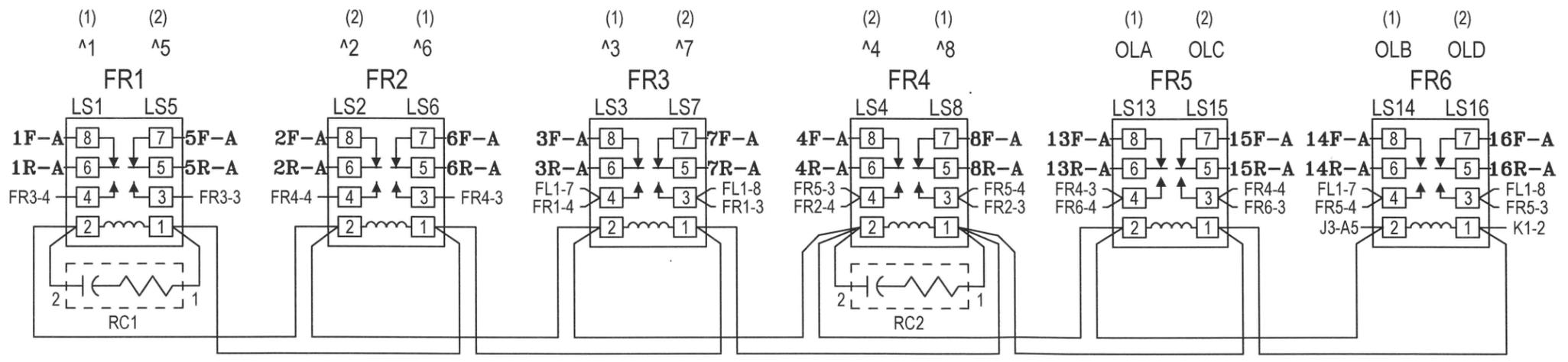
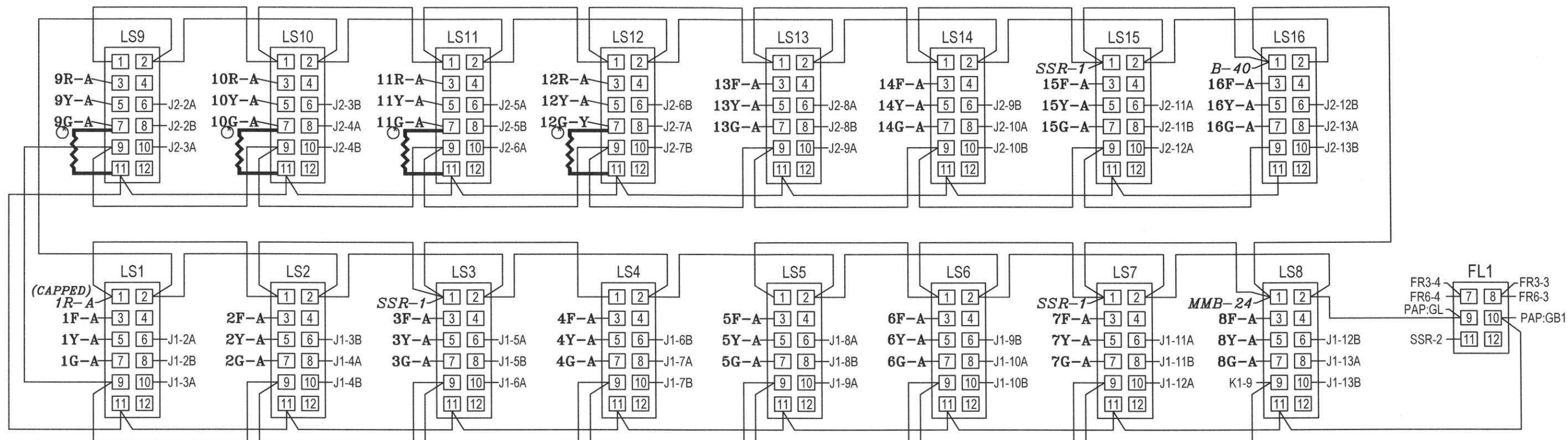
MOUNTED UNDER
 DETECTOR PANEL

PED. PPB
 (COMMON TO GB1)

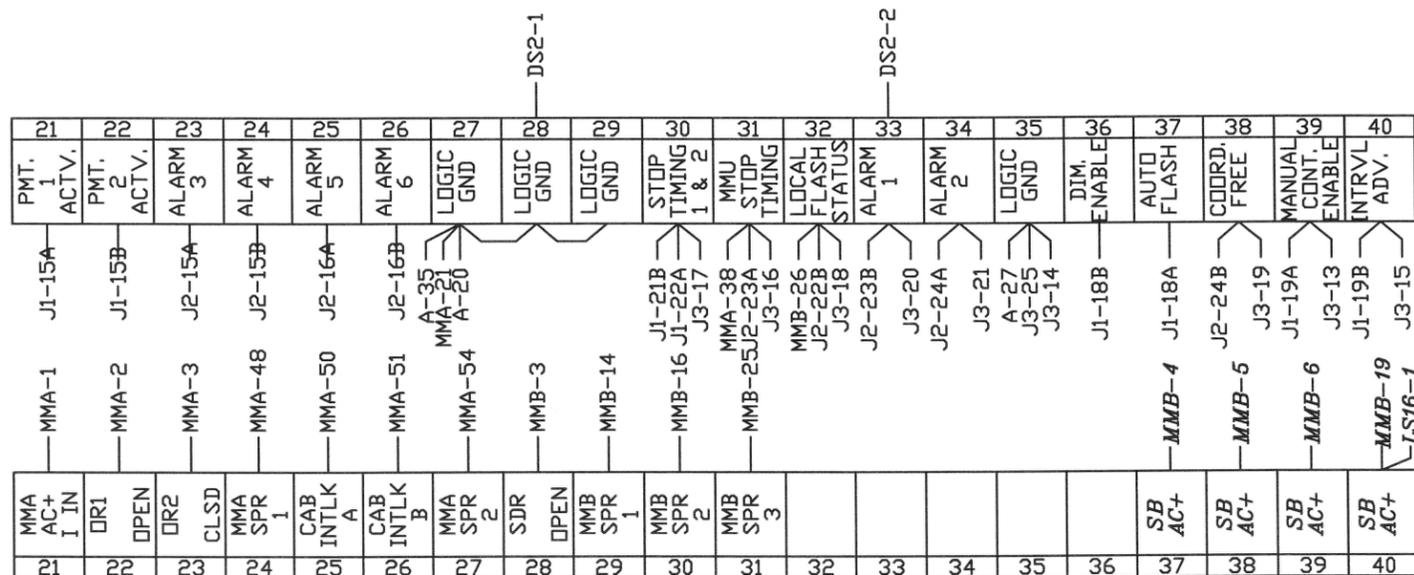
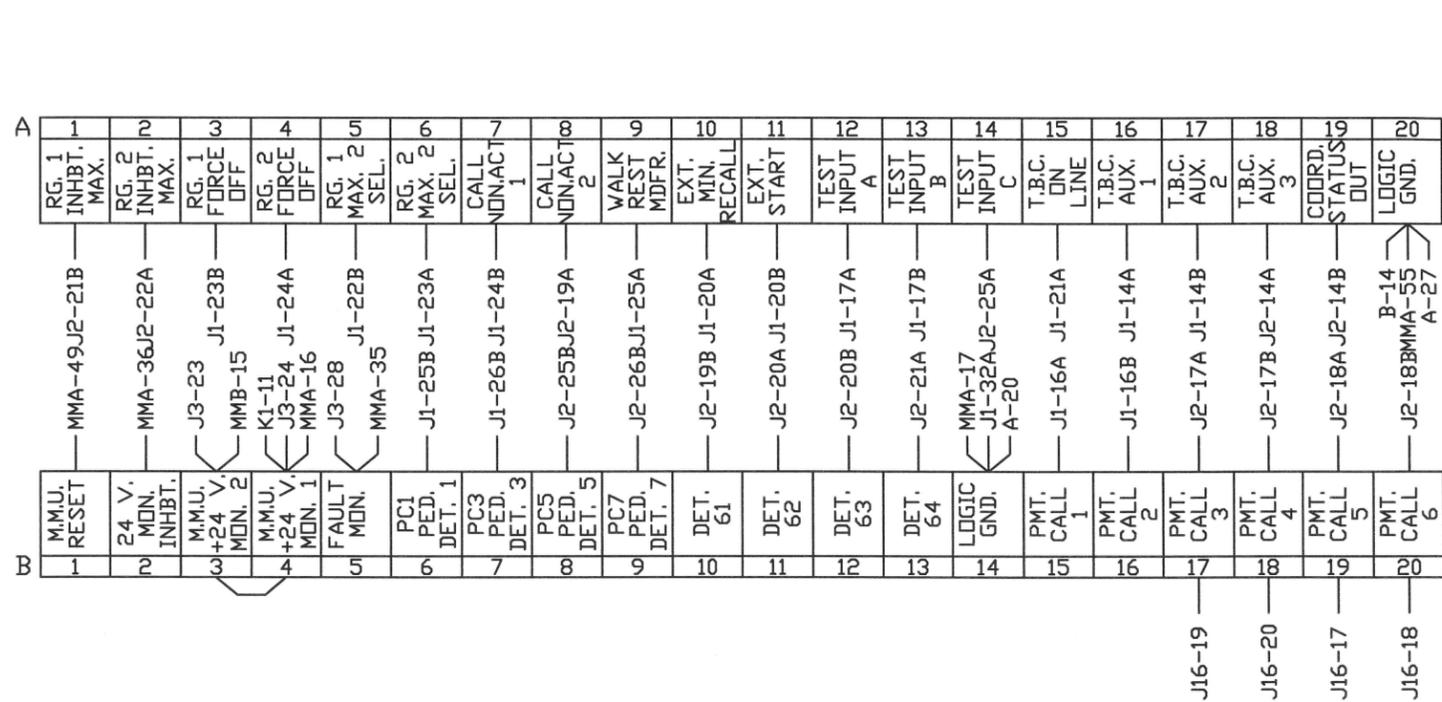


SIGNAL FIELD TERMINALS

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. COMM.	J3-D1
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-C9
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	ALARM 3	A-23
15B	ALARM 4	A-24
16A	ALARM 5	A-25
16B	ALARM 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. COMM.	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

DETECTOR BIU		
PIN	FUNCTION	TO
1A	+24 VDC	
1B	+24 VDC	
2A		
2B		
3A		
3B		
4A		
4B		
5A		
5B		
6A		
6B		
7A		
7B		
8A		
8B		
9A		
9B	CH. 1 CALL	
10A	CH. 2 CALL	
10B	CH. 3 CALL	
11A	CH. 4 CALL	
11B	CH. 5 CALL	
12A	CH. 6 CALL	
12B	CH. 7 CALL	
13A	CH. 8 CALL	
13B	CH. 9 CALL	
14A	CH. 10 CALL	
14B	CH. 11 CALL	
15A	CH. 12 CALL	
15B	CH. 13 CALL	
16A	CH. 14 CALL	
16B	CH. 15 CALL	
17A	CH. 16 CALL	
17B	CH. 1 FAULT STATUS	
18A	CH. 2 FAULT STATUS	
18B	CH. 3 FAULT STATUS	
19A	CH. 4 FAULT STATUS	
19B	CH. 5 FAULT STATUS	
20A	CH. 6 FAULT STATUS	
20B	CH. 7 FAULT STATUS	
21A	CH. 8 FAULT STATUS	
21B	CH. 9 FAULT STATUS	
22A	CH. 10 FAULT STATUS	
22B	CH. 11 FAULT STATUS	
23A	CH. 12 FAULT STATUS	
23B	CH. 13 FAULT STATUS	
24A	CH. 14 FAULT STATUS	
24B	CH. 15 FAULT STATUS	
25A	CH. 16 FAULT STATUS	
25B		
26A		
26B		
27A		
27B		
28A	ADDR. SEL. 0	
28B	ADDR. SEL. 1	
29A	ADDR. SEL. 2	
29B	ADDR. SEL. 3	
30A		
30B		
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 171-1676-504	
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)
13	----
14	----

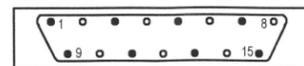
CONTROLLER POWER (CCA2) C/C 171-1676-503			
WIRE	PIN	SIGNAL	TO
1	A	FAULT MONITOR	PB-4
2	U	AC NEUTRAL	PB-10
3	V	EARTH GROUND	PB-9
4	W	LOGIC GROUND	PB-1
5	P	AC LINE	PB-11
6	SHL	EARTH GROUND	CCA2-V

TYPE 1 CONTROLLER POWER C/C 171-1676-502		
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	RESERVED	
G	LOGIC GND.	PB-1
H	EARTH GND.	PB-9
I	----	
J	RESERVED	
SHL	EARTH GND.	PB-6

CABINET POWER SUPPLY C/C 171-1676-511		
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	RESERVED	
G	LOGIC GND.	PB-1
H	EARTH GND.	PB-9
I	+12 VAC	PB-7
J	RESERVED	
SHL	EARTH GND.	PIN H

CONTROLLER PORT 1 CONNECTOR			
PIN	SIGNAL	TO	FUNCTION
1	TWISTED PAIR 1+	SDLC-1	CONT TXD+
2	LOGIC GND.	----	
3	TWISTED PAIR 2+	SDLC-4	CONT TXC+
4	LOGIC GND.	----	
5	TWISTED PAIR 3+	SDLC-7	CONT RXD+
6	LOGIC GND.	----	
7	TWISTED PAIR 4+	SDLC-10	CONT RXC+
8	LOGIC GND.	----	
9	TWISTED PAIR 1-	SDLC-2	CONT TXD-
10	PORT 1 DISABLE	----	
11	TWISTED PAIR 2-	SDLC-5	CONT TXC-
12	EARTH GND.	SHIELD WIRE	
13	TWISTED PAIR 3-	SDLC-8	CONT RXD-
14	RESERVED	----	
15	TWISTED PAIR 4-	SDLC-11	CONT RXC-

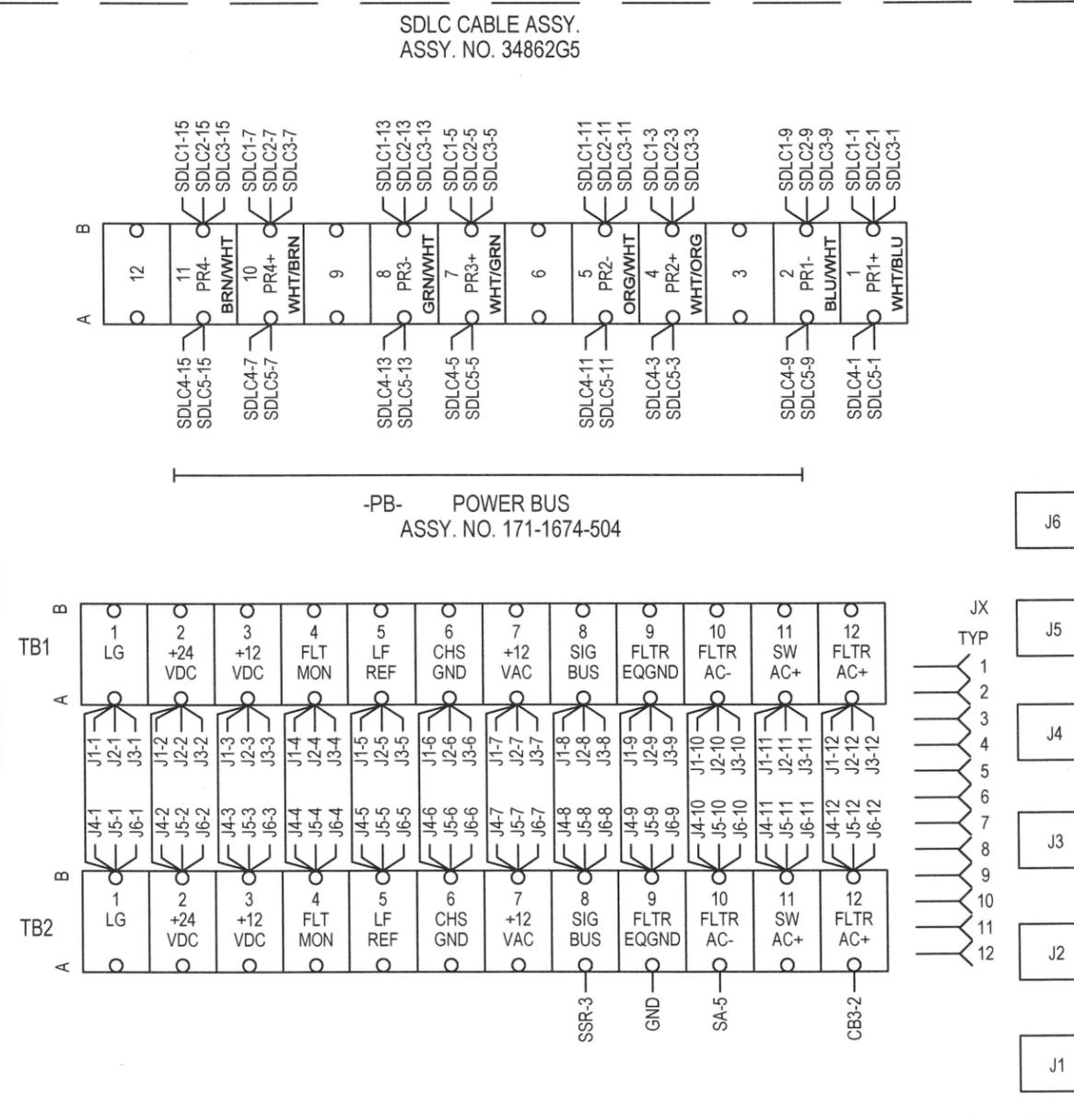
MMU & BIU PORT 1 CONNECTOR			
PIN	SIGNAL	TO	FUNCTION
1	TWISTED PAIR 1+	SDLC-1	BIU RXD+
2	LOGIC GND.	----	
3	TWISTED PAIR 2+	SDLC-4	BIU RXC+
4	LOGIC GND.	----	
5	TWISTED PAIR 3+	SDLC-7	BIU TXD+
6	LOGIC GND.	----	
7	TWISTED PAIR 4+	SDLC-10	BIU TXC+
8	LOGIC GND.	----	
9	TWISTED PAIR 1-	SDLC-2	BIU RXD-
10	PORT 1 DISABLE	----	
11	TWISTED PAIR 2-	SDLC-5	BIU RXC-
12	EARTH GND.	SHIELD WIRE	
13	TWISTED PAIR 3-	SDLC-8	BIU TXD-
14	RESERVED	----	
15	TWISTED PAIR 4-	SDLC-11	BIU TXC-



FRONT VIEW OF BU1 - BU5



FRONT VIEW OF J1-J6



DETECTOR RACK 34030G1 #1

B.I.U.	L3	L1	L7	L5	L11	L9	L15	L13	PMT 5 <input type="checkbox"/> 2CH OPTICOM/ OPIC CH. C CH. D	PMT 3 <input type="checkbox"/> 2CH OPTICOM/ OPIC CH. A CH. B	PGM. CARD
	5-1	1-1	2-3	2-1	6-3	6-1					
	<input type="checkbox"/> 2CH										
	5-2	1-2		2-2		6-2					
	L4	L2	L8	L6	L12	L10	L16	L14	PMT 6	PMT 4	

<input checked="" type="checkbox"/> J13 171-1676-515 DC POWER	<input checked="" type="checkbox"/> J16 C/C 33284G8 EXP. OUTPUTS	<input checked="" type="checkbox"/> J14 C/C 33284G2 LPS 1-8	<input checked="" type="checkbox"/> J18 C/C 33284G9 SYS. OUTPUTS	<input checked="" type="checkbox"/> J15 C/C 33284G3 LPS 9-16	<input checked="" type="checkbox"/> J17 171-1676-515 AC POWER	<input type="checkbox"/> J19 C/C 33284G17 PGM. CARD
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DETECTOR RACK 34030G1 #2

B.I.U.	L3	L1	L7	L5	L11	L9	L15	L13	NOT USED	NOT USED	PGM. CARD
	4-3	4-1	8-3	8-1							
	<input type="checkbox"/> 2CH										
		4-2	8-4	8-2							
	L4	L2	L8	L6	L12	L10	L16	L14			

<input checked="" type="checkbox"/> J13 171-1676-515 DC POWER	<input type="checkbox"/> J16 C/C 33284G8 EXP. OUTPUTS	<input checked="" type="checkbox"/> J14 C/C 33284G2 LPS 1-8	<input type="checkbox"/> J18 C/C 33284G9 SYS. OUTPUTS	<input checked="" type="checkbox"/> J15 C/C 33284G3 LPS 9-16	<input checked="" type="checkbox"/> J17 171-1676-515 AC POWER	<input type="checkbox"/> J19 C/C 33284G17 PGM. CARD
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DETECTOR ASSIGNMENTS

CONT. INPUT	PHASE ASGN.	DETECTOR TYPE
1	1-1	1
2	1-2	1
3	5-1	1
4	5-2	1
5	2-1	1
6	2-2	1
7	2-3	1
8		
9	6-1	1
10	6-2	1
11	6-3	1
12		
13		
14		
15		
16		

RACK #1

DETECTOR ASSIGNMENTS

CONT. INPUT	PHASE ASGN.	DETECTOR TYPE
17	4-1	3/8
18	4-2	7
19		
20		
21	8-1	3/8
22	8-2	7
23	8-3	1
24	8-4	1
25		
26		
27		
28		
29		
30		
31		
32		

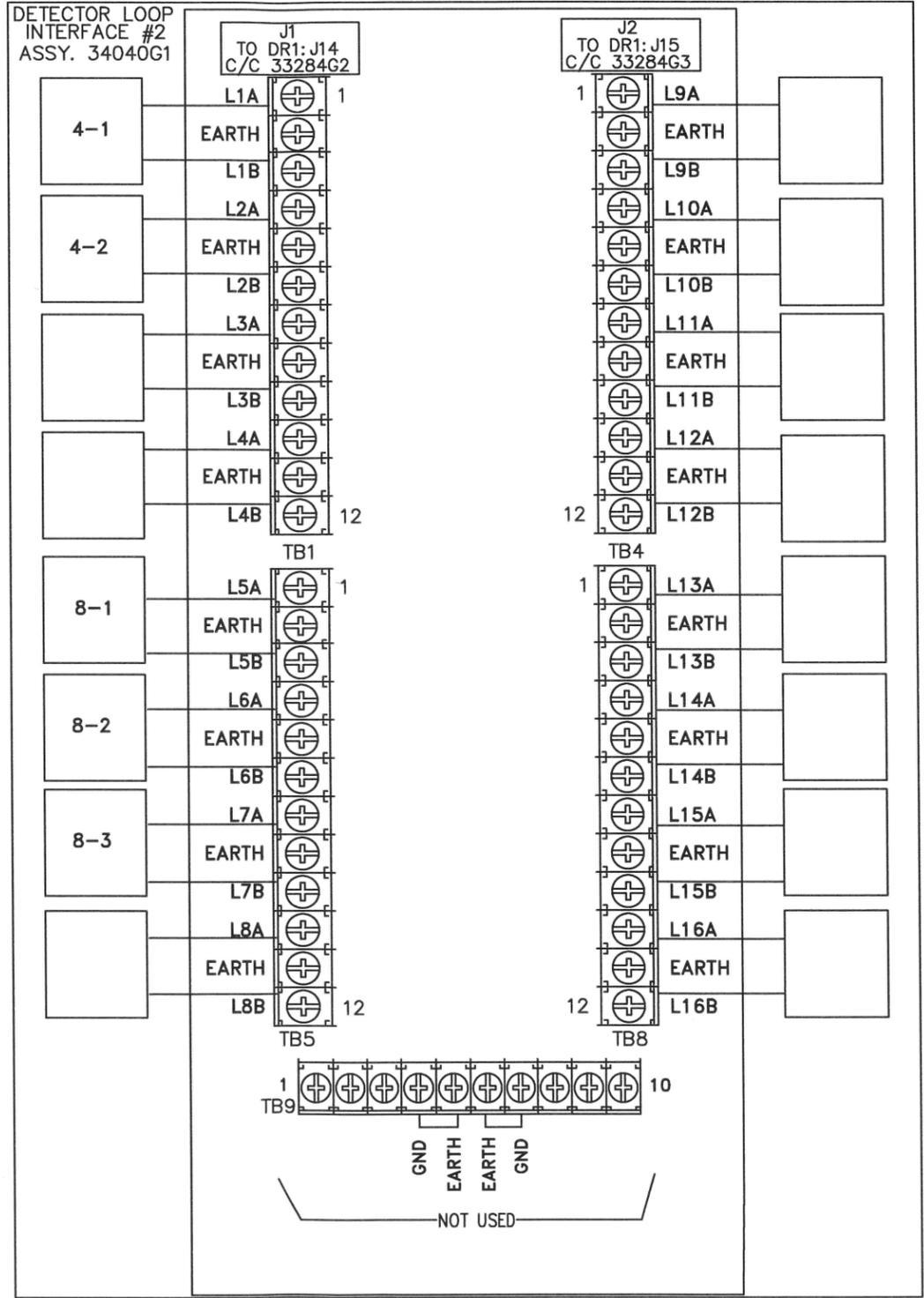
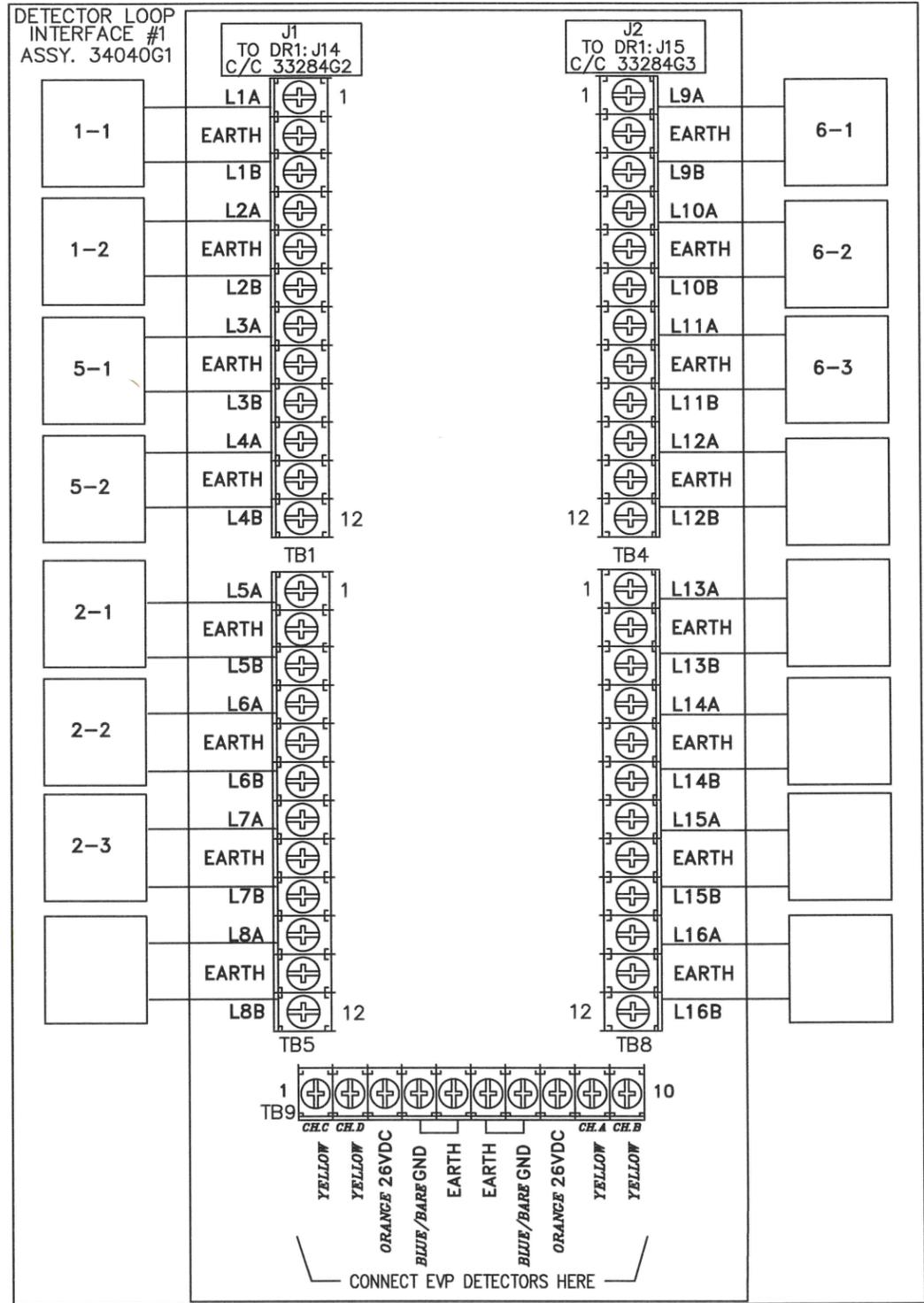
RACK #2

ADDRESS TABLE		
RACK #	JMPR	DET. #'S
1		1-16
2		17-32
3		33-48

DETECTOR RACK PROGRAMMING JUMPERS

DC POWER	DET. TYPE	CONFIGURATION ④				DET. CMNS.
		SLOT 1/2	SLOT 3/4	SLOT 5/6	SLOT 7/8	
JP31 JP32 JP33 JP34	1 TS-1	JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP13 JP14 JP15 JP16 JP17 JP18 JP19 JP20 JP21 JP22	JP23 JP24 JP25 JP26 JP27 JP28	JP29 JP30	JP38-JP55	
	2 * TS-2					
	3 LM-632T 262-FC					
	4 MAG.					
	5 LM-642() (TS-2)					

- ① INSTALL JUMPERS ON JP31 THRU JP34 WHEN A SHELF MOUNT POWER SUPPLY IS USED. WARNING - DO NOT INSTALL JUMPERS WHEN A PLUG-IN POWER SUPPLY IS USED.
- ② INSTALL JUMPERS ON JP38 - JP55 WHEN PGM. CARD IS NOT USED.
- ③ PROGRAM CARD AND PLUG-IN POWER SUPPLY ARE FOR TS-1 APPLICATIONS ONLY. REMOVE FOR TS-2 APPLICATIONS.
- ④ PROGRAM JUMPERS USING CONFIGURATION NUMBER AS SHOWN BY ASTERISK.



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	LPI1: TB9-3
20	PMT. CH. C/D +26VDC	LPI1: TB9-4,7
21	PMT. DC GROUND	LPI1: TB9-8
22	PMT. CH. A/B +26VDC	LPI1: TB9-9
23	PMT. DET. CH. A	LPI1: TB9-10
24	PMT. DET. CH. B	LPI1: TB9-10
25	----	
26	----	

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. RACK POWER
171-1676-515

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 33284G84

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

RACK #1 ONLY

DETECTOR LOOP INTERFACE

EVP SENSORS

CABLE	DISCR. CHAN.	PHASES	POLE#	TERMINAL TB9		
				SIGNAL	DC(+)	GND
21	1	1-6	2	A	26+	GND
46	2	2-5	5	B	26+	GND
30,39	3	8	3	C	26+	GND
38	4	4	1	D	26+	GND

EVP VERIFY LIGHTS

CABLE	CONTR. CHAN.	PHASES	POLE#	TERM.
46	4	2-5	5	65
29	5	8	3	71
37	6	4	1	77

VEHICLE SIGNALS

CABLE	SIGNAL	TERMINAL						
		G	FLA	Y	R	G	Y	R
14	1-1	1	3	5	7			
32	1-2	2	4	6	8			
41,43	2-1,2-3					9	11	13
42	2-2					10	12	14
33,43	4-1,4-3					23	25	27
32	4-2					24	26	28
41	5-1	29	31	33	35			
25	5-2	30	32	34	36			
14,16	6-1,6-3					37	39	41
15	6-2					38	40	42
26,16	8-1,8-3					51	53	55
25	8-2					52	54	56

VEH DETECTORS

CABLE	DET	SLOT	FUNC	RACK	TERMINAL
54	1-1	1	1	1	L1
55	1-2	2	1	1	L2
8	2-1	5	1	1	L5
9	2-2	6	1	1	L6
10	2-3	7	1	1	L7
24	4-1	17	3/8	2	L1
23	4-2	18	7	2	L3
12	5-1	3	1	1	L3
13	5-2	4	1	1	L4
57	6-1	9	1	1	L9
58	6-2	10	1	1	L10
59	6-3	11	1	1	L11
52	8-1	21	3/8	2	L5
49	8-2	22	7	2	L6
50	8-3	23	1	2	L7
51	8-4	24	1	2	L8

PED PUSHBUTTONS

CABLE	PPB	TERMINAL	RETURN
35	2-1	801	GB1
48	2-2	801	GB1
18	4-1	802	GB1
36	4-2	802	GB1
28	6-1	803	GB1
19	6-2	803	GB1
45	8-1	804	GB1
56	8-2	804	GB1

PED SIGNALS

CABLE	SIGNAL	TERMINAL	
		WK	DW
33	2-1	57	61
42	2-2	58	62
17	4-1	63	67
33	4-2	64	68
26	6-1	69	73
15	6-2	70	74
44	8-1	75	79
26	8-2	76	80

B.I.U	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT	EVP	PH	POLE #	CONT CH #
	CH 1	1	1	1-1			CH 5	2	1	2-1			CH 9	6	1	6-1			CH 13						CH 1	1-6	2	3
	CH 2	1	1	1-2			CH 6	2	1	2-2			CH 10	6	1	6-2			CH 14						CH 2	2-5	5	4
	CH 3	5	1	5-1			CH 7						CH 11						CH 15						CH 3	8	3	5
	CH 4	5	1	5-2			CH 8						CH 12						CH 16						CH 4	4	1	6
B.I.U	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT	DET	PH	F	DET	DLY	EXT				
	CH 17	4	3/8	4-1		0.5	CH 21	8	3/8	8-1			CH 25						CH 29									
	CH 18	4	7	4-2	5.0		CH 22	8	7	8-2	10.0		CH 26						CH 30									
	CH 19						CH 23	8	1	8-3			CH 27						CH 31									
	CH 20						CH 24	8	1	8-4			CH 28						CH 32									