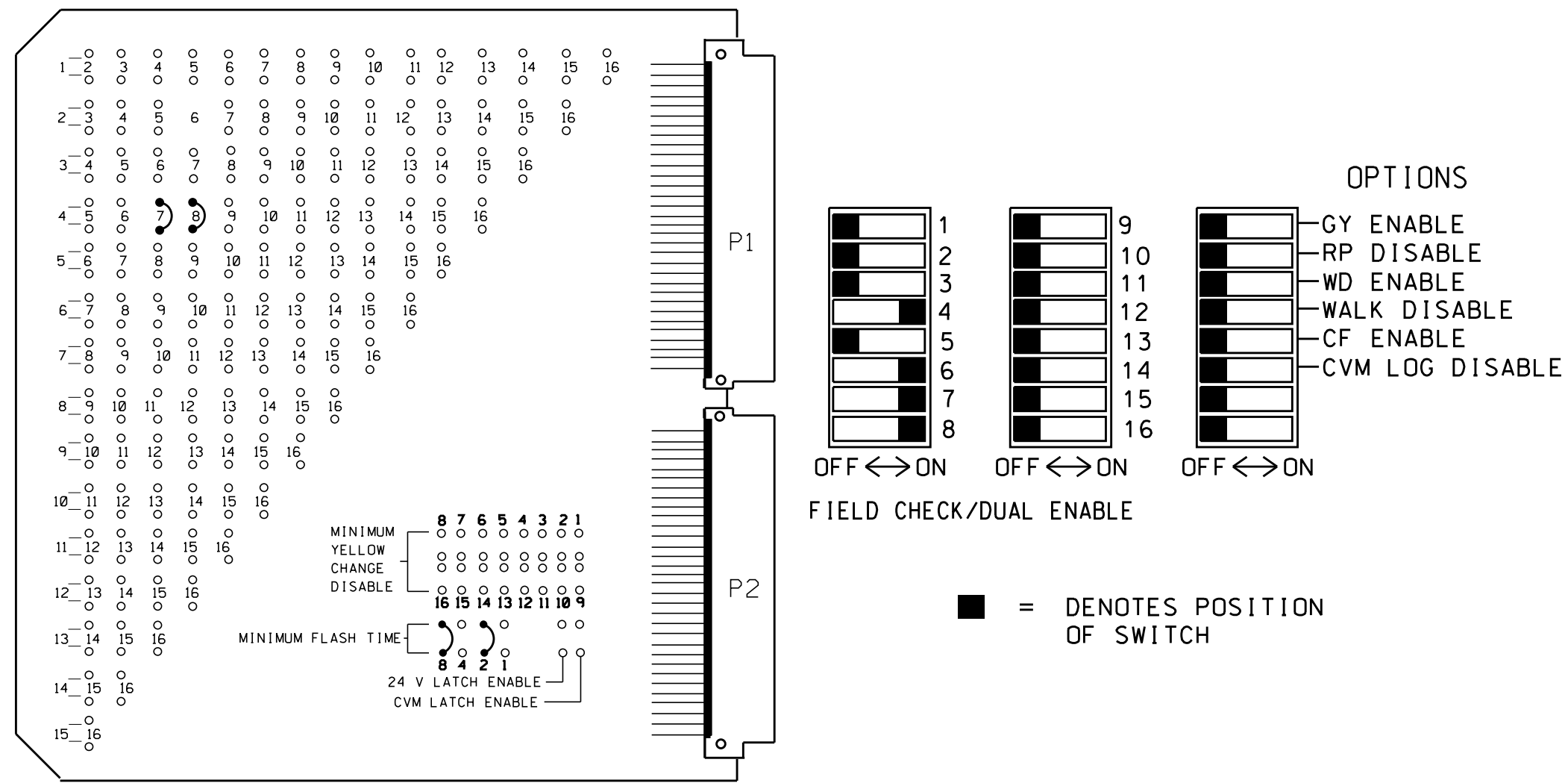


**EDI MODEL MMU-16E
MALFUNCTION MANAGEMENT UNIT
PROGRAMMING DETAIL**

(program card and set switches as shown below)



MMU PROGRAMMING CARD

NOTES

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED LOAD SWITCHES TO FLASH-RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 1,2,3,5,9,10,11, & 12 TO LOAD SWITCH AC+ BY INSERTING A JUMPER PLUG IN THE UNUSED LOAD SWITCH SOCKET FROM PIN 1 (LS AC+) TO PIN 3 (RED OUT). MAKE SURE ALL FLASH TRANSFER RELAYS ARE IN PLACE.
3. PROGRAM CONTROLLER TO START UP IN PHASE 6 GREEN.
4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT ON THE MALFUNCTION MANAGEMENT UNIT. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. PROGRAM DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
7. PROGRAM DETECTOR CALL DELAY AND EXTENSION TIMING ON THE CONTROLLER, UNLESS OTHERWISE SPECIFIED.
8. SET ALL DETECTOR CARD UNIT CHANNELS TO "PRESENCE" MODE.
9. PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
10. THIS CONTROLLER AND CABINET ARE PART OF THE GREENVILLE SIGNAL SYSTEM.

SIGNAL HEAD HOOK-UP CHART

PHASE	1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED
SIGNAL HEAD NO.	NU	NU	NU	41,42	NU	61,62	41	62	81,82	NU	NU	NU
RED				4R		6R	*		8R			
YELLOW				4Y		6Y			8Y			
GREEN				4G		6G			8G			
RED ARROW												
YELLOW ARROW							7Y	7Y				
GREEN ARROW							7G	7G				

NU = NOT USED
* Denotes install load resistor, see load resistor installation detail this sheet.

DETECTOR RACK SET-UP DETAIL

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.

BIU	CH1	SLOT	CH1	SLOT	SLOT	CH1	SLOT	CH1	SLOT	SLOT	SLOT
	L3 ø 6		L7 ø 4			L9 ø 7		L13 ø 8			
	CH2	EMPTY	CH2	EMPTY	EMPTY	CH2	EMPTY	CH2	EMPTY	EMPTY	EMPTY
	L4 ø 6		L8 ø 4			L10 ø 4		L14 ø 8			

WIRE LOOPS TO TERMINALS ON LOOP PANEL AS SHOWN IN THE CHART BELOW

LOOP NO.	LOOP PANEL TERMINALS
NU	L1A,L1B
NU	L2A,L2B
6A	L3A,L3B
6B	L4A,L4B
NU	L5A,L5B
NU	L6A,L6B
4A	L7A,L7B
4B	L8A,L8B
7A	L9A,L9B
	L10A,L10B
NU	L11A,L11B
NU	L12A,L12B
8A	L13A,L13B
8B	L14A,L14B
NU	L15A,L15B
NU	L16A,L16B

NOTE
BE SURE TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND DELAY) AS SHOWN ON THE SIGNAL PLANS.

PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW

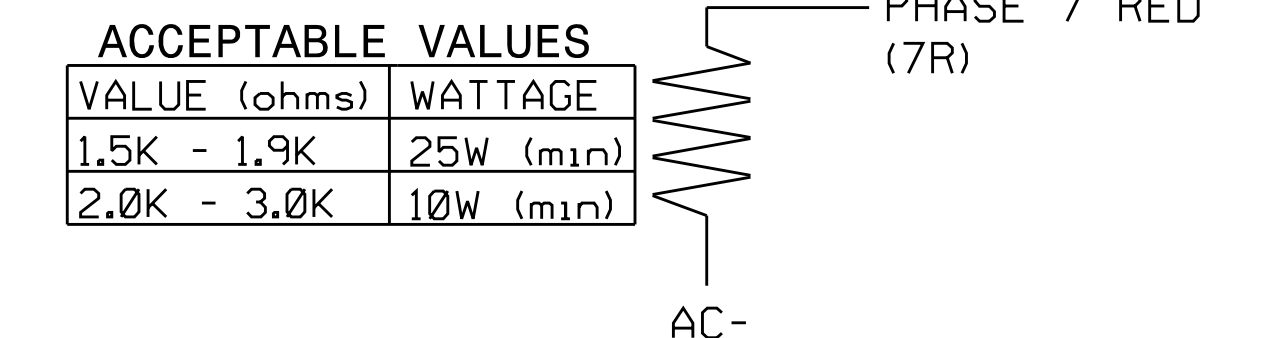
CONTROLLER DETECTOR NO.	FUNCTION	TIMING	
		FEATURE	TIME (SEC)
1	-	-	-
2	-	-	-
3	ø 6	-	-
4	ø 6	-	-
5	-	-	-
6	-	-	-
7	ø 4	-	-
8	ø 4	-	-
9	ø 7	DELAY	15
10	ø 4	-	-
11	-	-	-
12	-	-	-
13	ø 8	-	-
14	ø 8	DELAY	10
15	-	-	-
16	-	-	-

ADD JUMPERS FROM L9A TO L10A AND L9B TO L10B

EQUIPMENT INFORMATION

CONTROLLER.....ECONOLITE ASC/2S-2100
CABINET.....ECONOLITE TS-2
CABINET MOUNT.....BASE
LOADBAY POSITIONS.....12
LOAD SWITCHES USED.....4,6,7,8
PHASES USED.....4,6,7,8

LOAD RESISTOR INSTALLATION DETAIL



NOTE: THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL RED MONITOR INPUT IN ORDER FOR THE MALFUNCTION MANAGEMENT UNIT TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON PHASES THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

LOAD SWITCH ASSIGNMENT DETAIL

(program controller according to schedule in chart below)

LOAD SWITCH NUMBER	FUNCTION
1	ø 1
2	ø 2
3	ø 3
4	ø 4
5	ø 5
6	ø 6
7	ø 7
8	ø 8
9	ø 2 PED
10	ø 4 PED
11	ø 6 PED
12	ø 8 PED

UNUSED LOAD SWITCH CHANNELS SHALL BE DISABLED IN CONTROLLER PROGRAMMING.

PLANS PREPARED IN THE OFFICE OF:
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THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0016T1
DESIGNED: JUNE 2014
SEALED: 9/2/2014
REVISED: N/A

TEMPORARY DESIGN 1 - TMP PHASE 1

	SR 1598 (10th STREET) AT SR 1702 (EVANS STREET)		SEAL
	DIVISION 2 PLAN DATE: JUNE 2014 PREPARED BY: SP PENNINGTON	PITT COUNTY REVIEWED BY: SL PHILLIPS REVIEWED BY:	