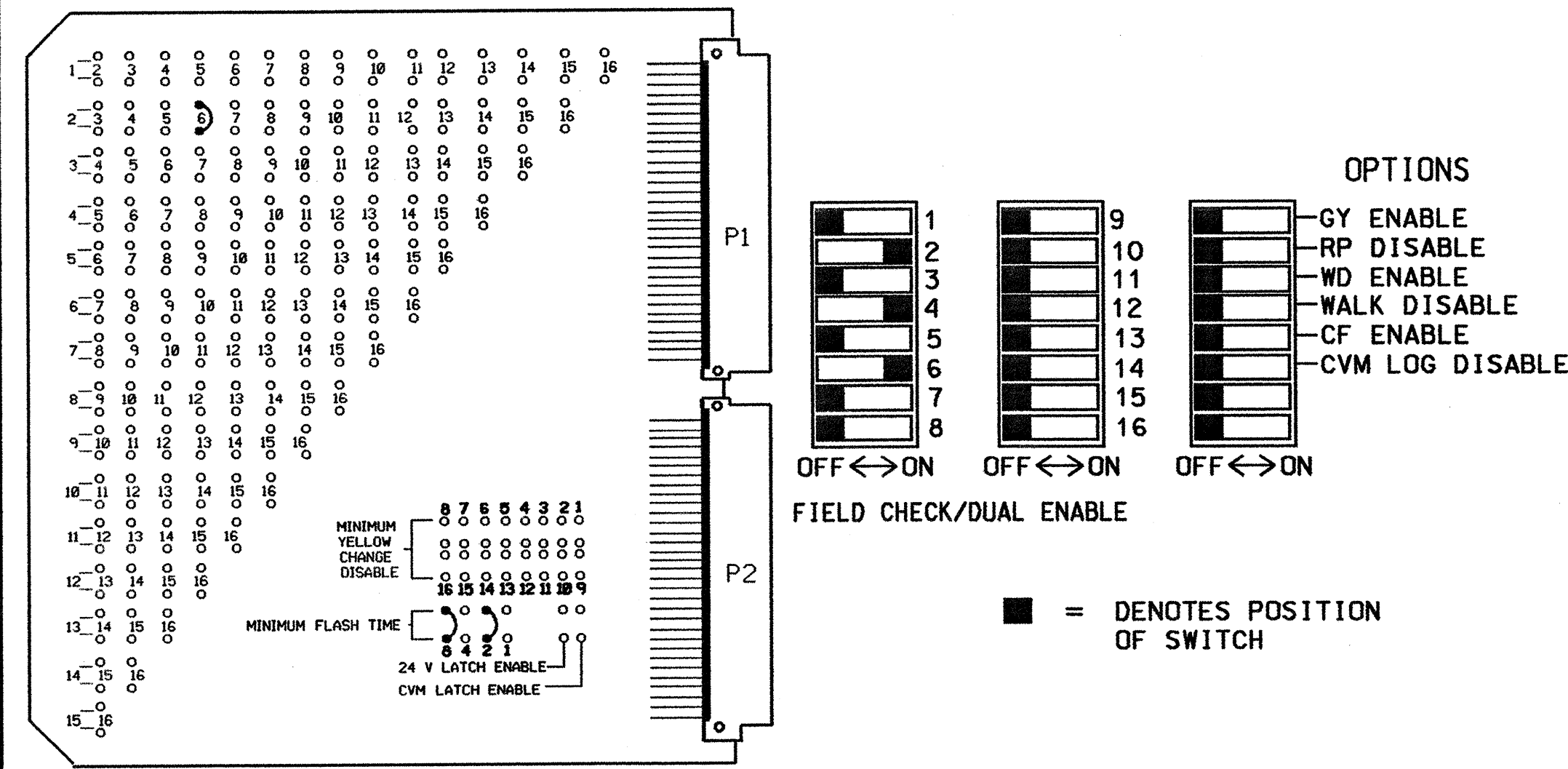


**EDI MODEL MMU-16E
MALFUNCTION MANAGEMENT UNIT
PROGRAMMING DETAIL**

(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, 3, 5, 7, 8, 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 THE CONTROLLER TO START UP IN PHASES 2 AND 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. SET ALL DETECTOR CARD UNITS TO 'PRESENCE' MODE.
7. PROGRAM DETECTOR CALL DELAY AND EXTENSION TIMING ON THE CONTROLLER UNLESS OTHERWISE SPECIFIED.

FIELD CONNECTION HOOK-UP CHART

PHASE	1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED
SIGNAL HEAD NO.	NU	2I,22	NU	4I,42	NU	6I,62	NU	NU	NU	NU	NU	NU
GREEN		2G		4G		6G						
YELLOW		2Y		4Y		6Y						
RED		2R		4R		6R						
RED ARROW												
YELLOW ARROW												
GREEN ARROW												

NU = NOT USED

DETECTOR RACK SET-UP DETAIL

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

BIU	CHI	CHI	SLOT	CHI	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
	L3	L1		L5							
	NOT USED	∅2		∅6							
	CH2	CH2	EMPTY	CH2	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY
	L4	L2		L6							
	∅4	∅2		∅6							

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

LOOP NO.	LOOP PANEL TERMINALS
2A	L1A, L1B
2B	L2A, L2B
—	L3A, L3B
4A	L4A, L4B
6A	L5A, L5B
6B	L6A, L6B
—	L7A, L7B
—	L8A, L8B
—	L9A, L9B
—	L10A, L10B
—	L11A, L11B
—	L12A, L12B
—	L13A, L13B
—	L14A, L14B
—	L15A, L15B
—	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	EXTEND	1.8
2	∅2	—	—
3	—	—	—
4	∅4	DELAY	10
5	∅6	EXTEND	1.8
6	∅6	—	—
7	—	—	—
8	—	—	—
9	—	—	—
10	—	—	—
11	—	—	—
12	—	—	—
13	—	—	—
14	—	—	—
15	—	—	—
16	—	—	—

EQUIPMENT INFORMATION

- * CONTROLLER.....CONTRACTOR SUPPLIED ECONOLITE ASC/2 CABINET
- * CABINETCONTRACTOR SUPPLIED ECONOLITE NC-3P CABINET MOUNT.....POLE
- LOADBAY POSITIONS.....12
- LOAD SWITCHES USED.....2, 4, 6
- PHASES USED.....2, 4, 6
- OL/A.....NOT USED
- OL/B.....NOT USED
- OL/C.....NOT USED
- OL/D.....NOT USED

THIS IS A TEMPORARY INSTALLATION TO BE REMOVED WHEN DIRECTED BY THE ENGINEER AS REQUIRED BY THE TRAFFIC CONTROL PLANS.*

LOAD SWITCH ASSIGNMENT DETAIL

(program controller according to schedule in chart below)

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

THIS ELECTRICAL DETAIL IS FOR THE TEMPORARY SIGNAL DESIGN: 12-1680T1
DESIGNED: SEPTEMBER 2002*
SEALED: 1-27-03*
REVISED: N/A

* BY ARCADIS G & M OF NORTH CAROLINA, INC.
801 CORPORATE CENTER DRIVE, SUITE 300
RALEIGH, NC 27607-5073
TEL: 919/854-1282 FAX: 919/854-5448

TS-2 TYPE 1 CABINET

TEMPORARY DESIGN 1 - TCP PHASE 2, STEPS 1 & 3 (to be removed)

	OLD US 70 at SR 2357 (NABORS ROAD)	
	DIVISION 12 IREDELL COUNTY E. of STATESVILLE	
PLAN DATE: JANUARY 2003	REVIEWED BY: <i>F. Russ</i>	
PREPARED BY: F.E. RUSS	REVIEWED BY:	
REVISIONS	INIT.	DATE
SIGNATURE: <i>George C. Brown</i>		DATE:
SIG. INVENTORY NO. 12-1680T1		